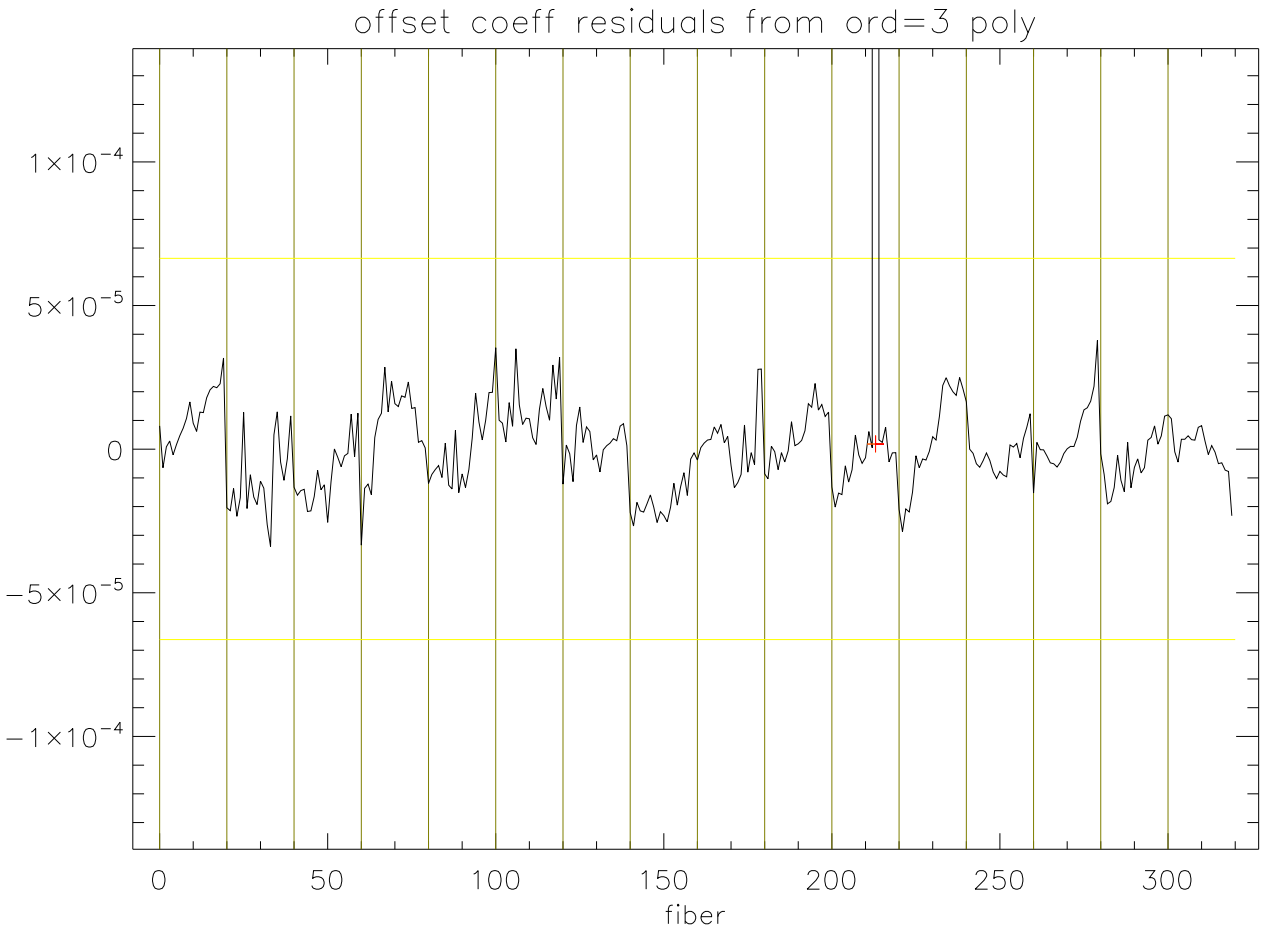
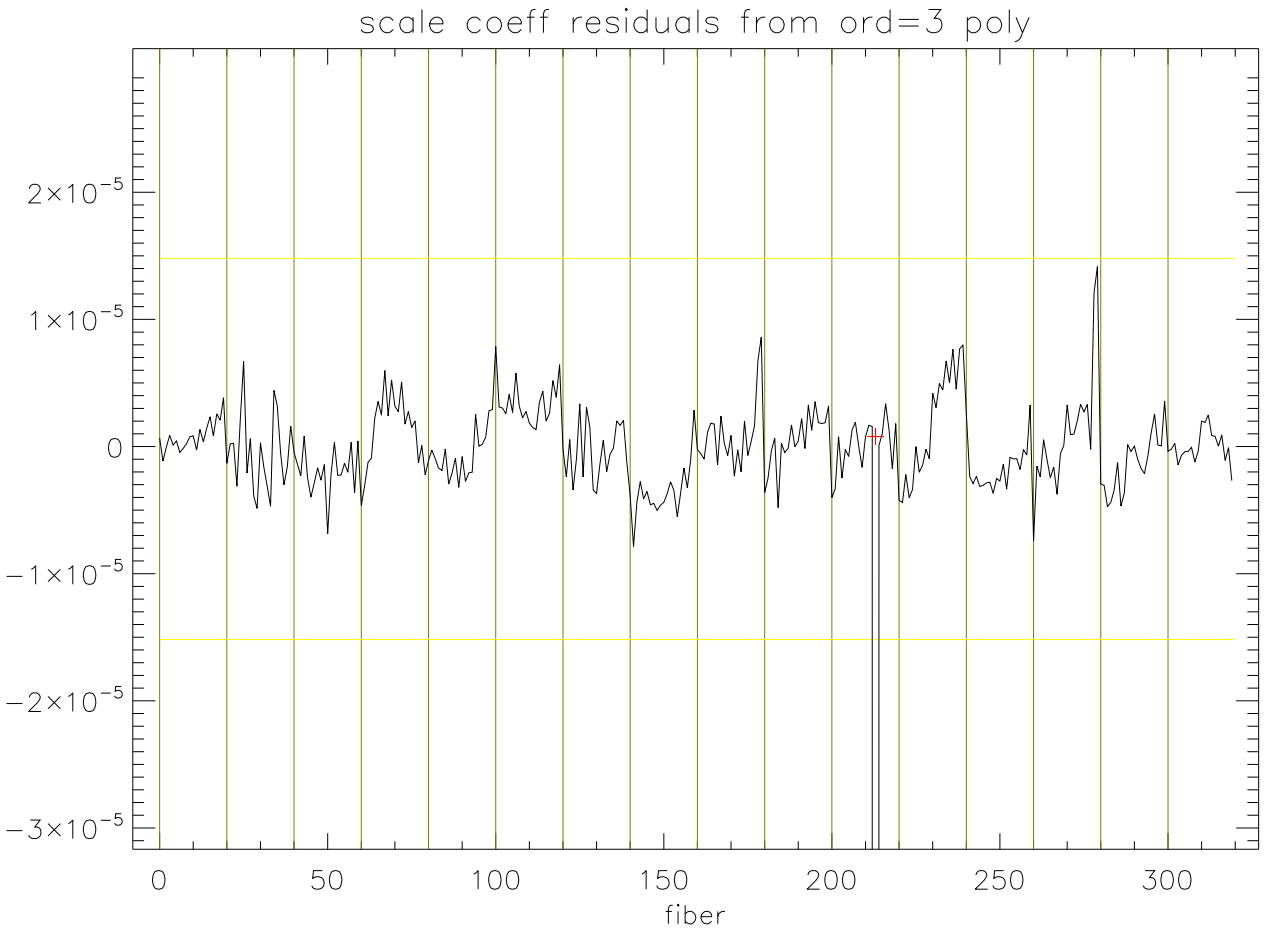
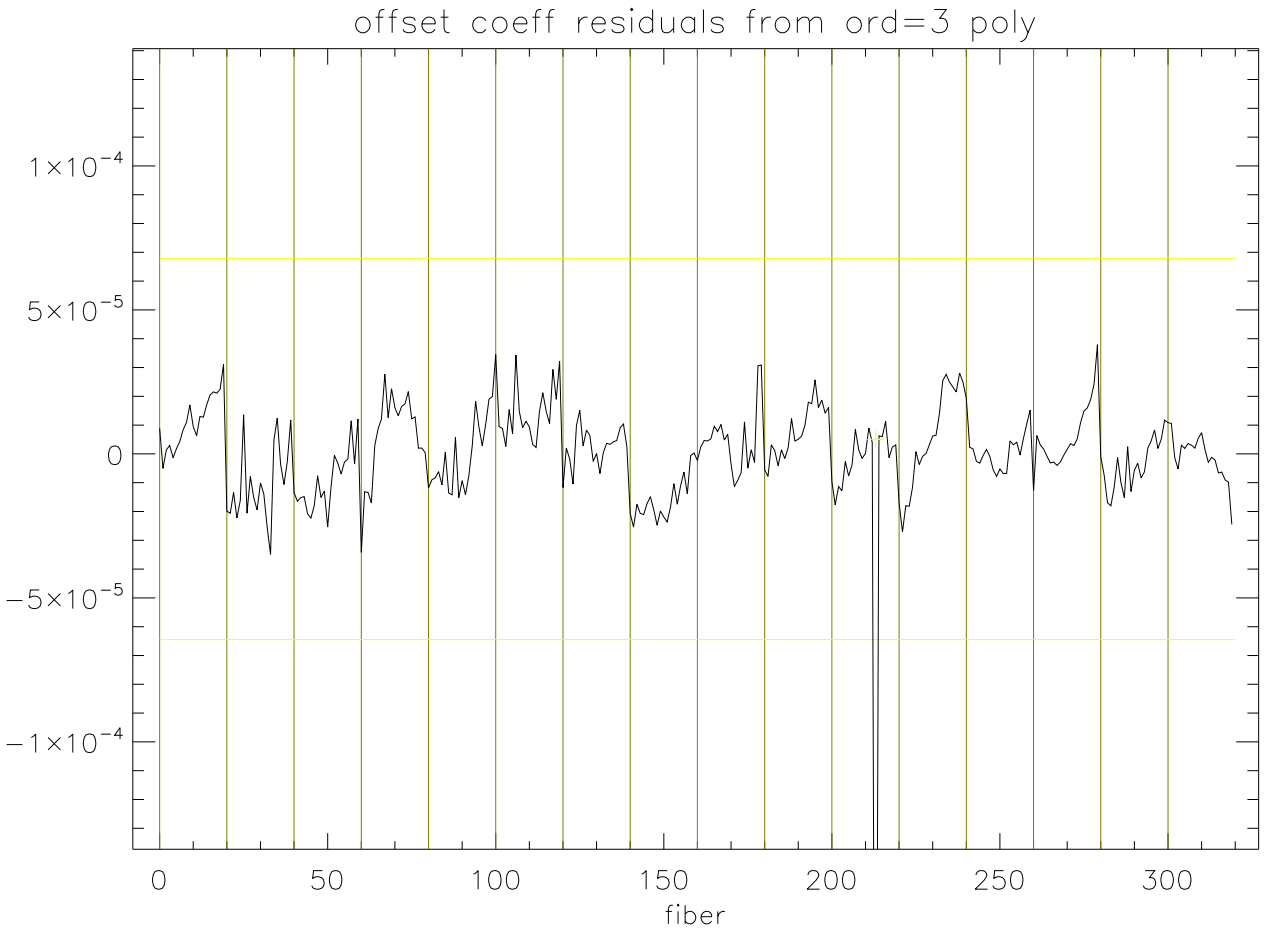
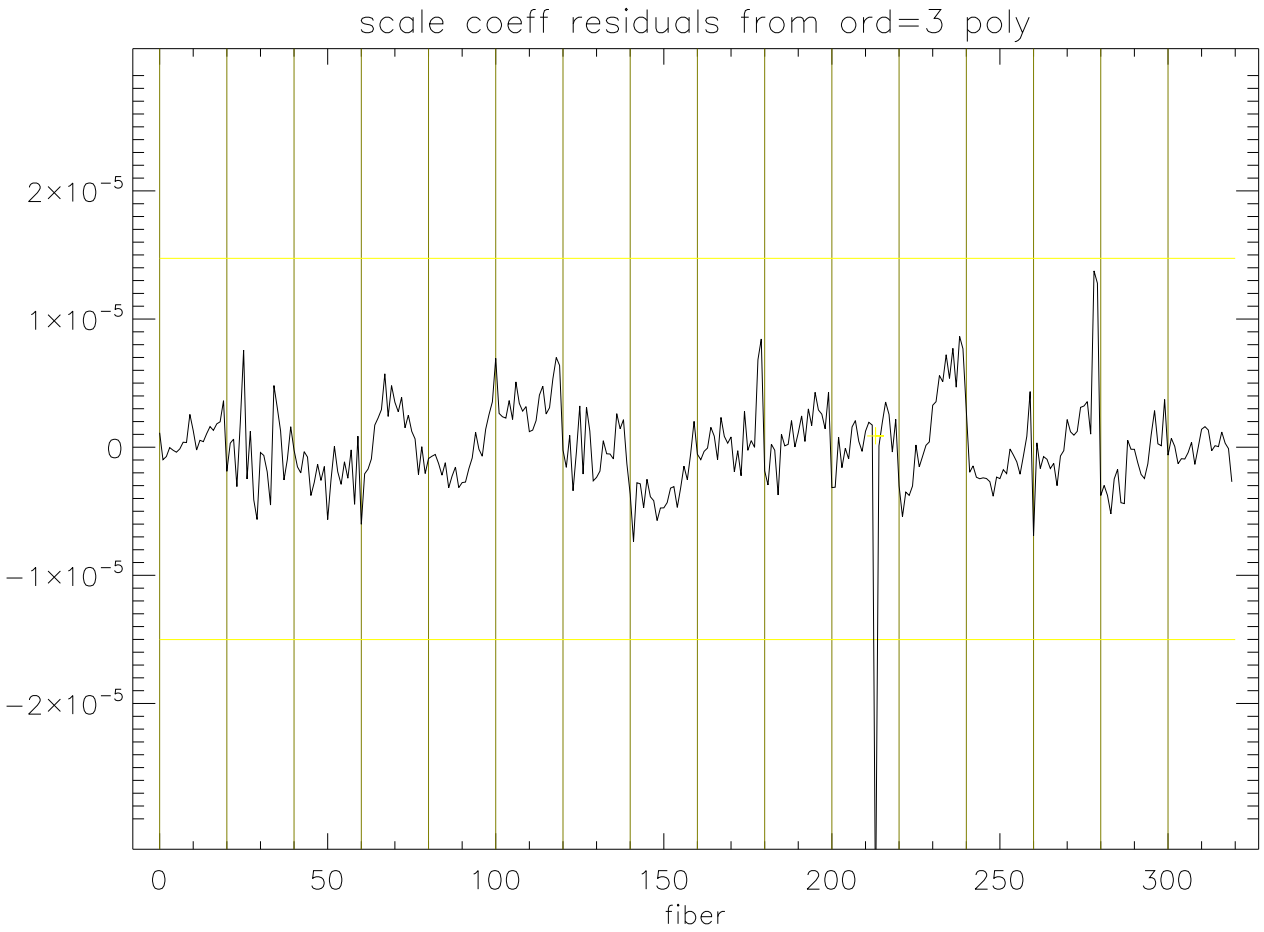
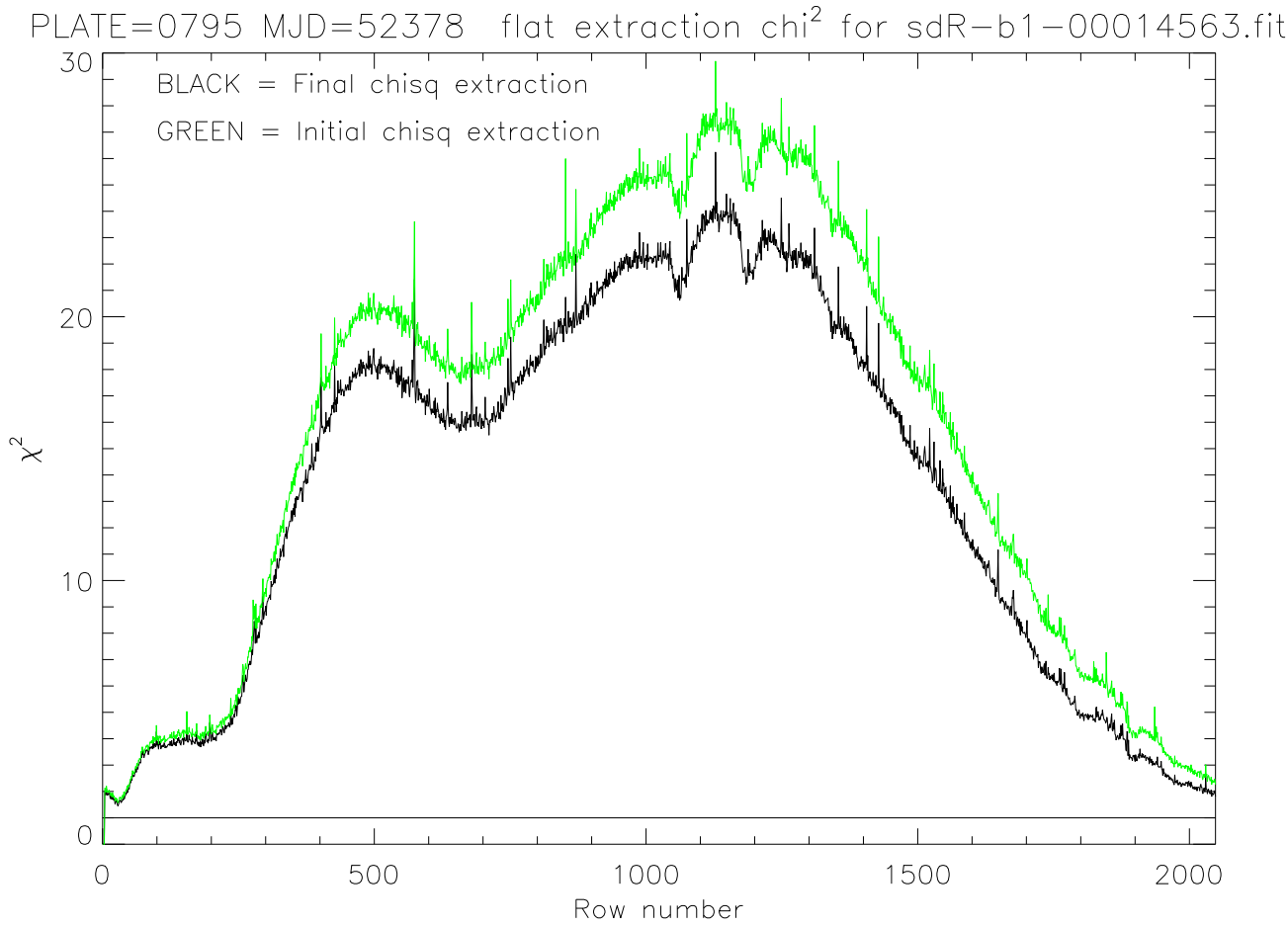
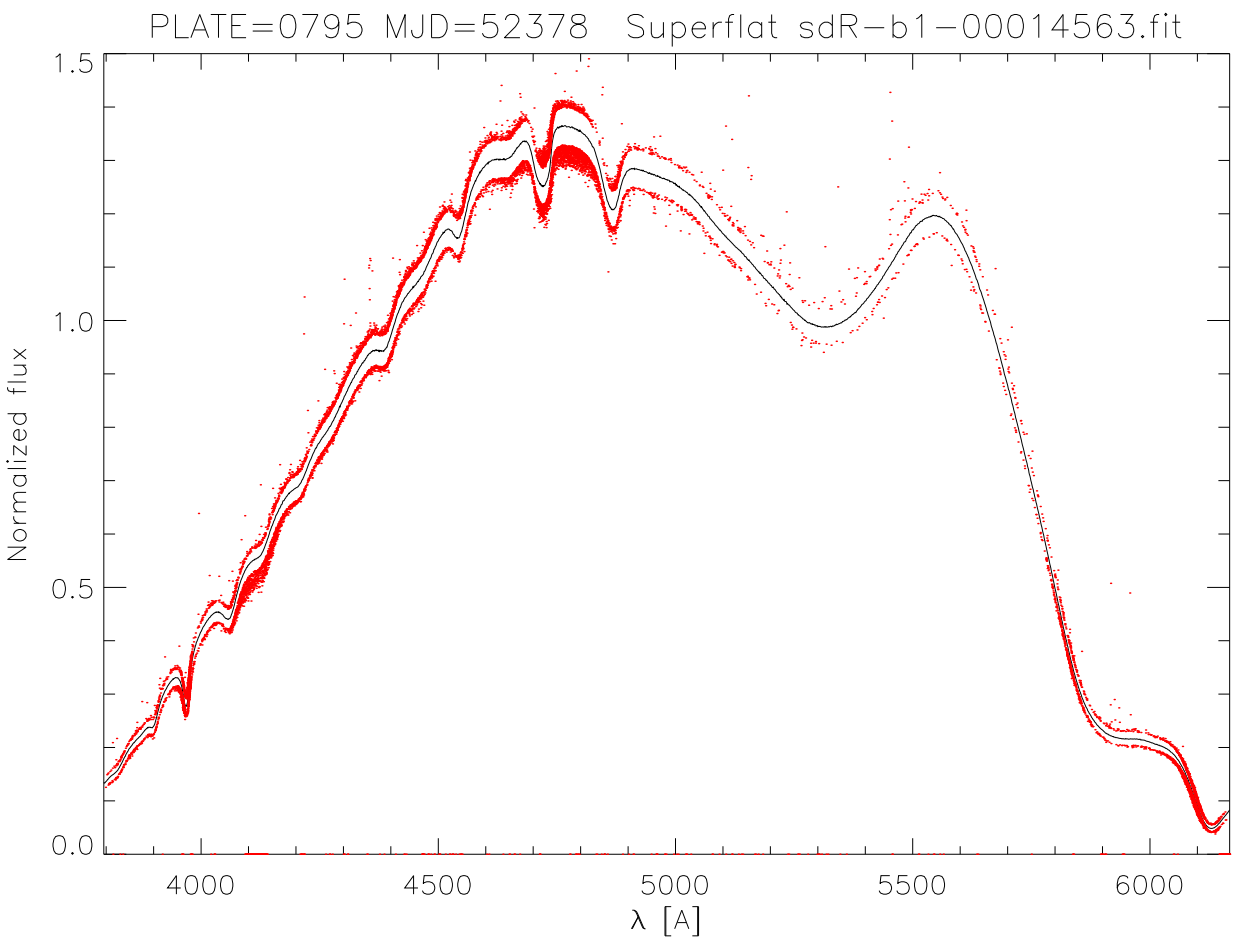

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

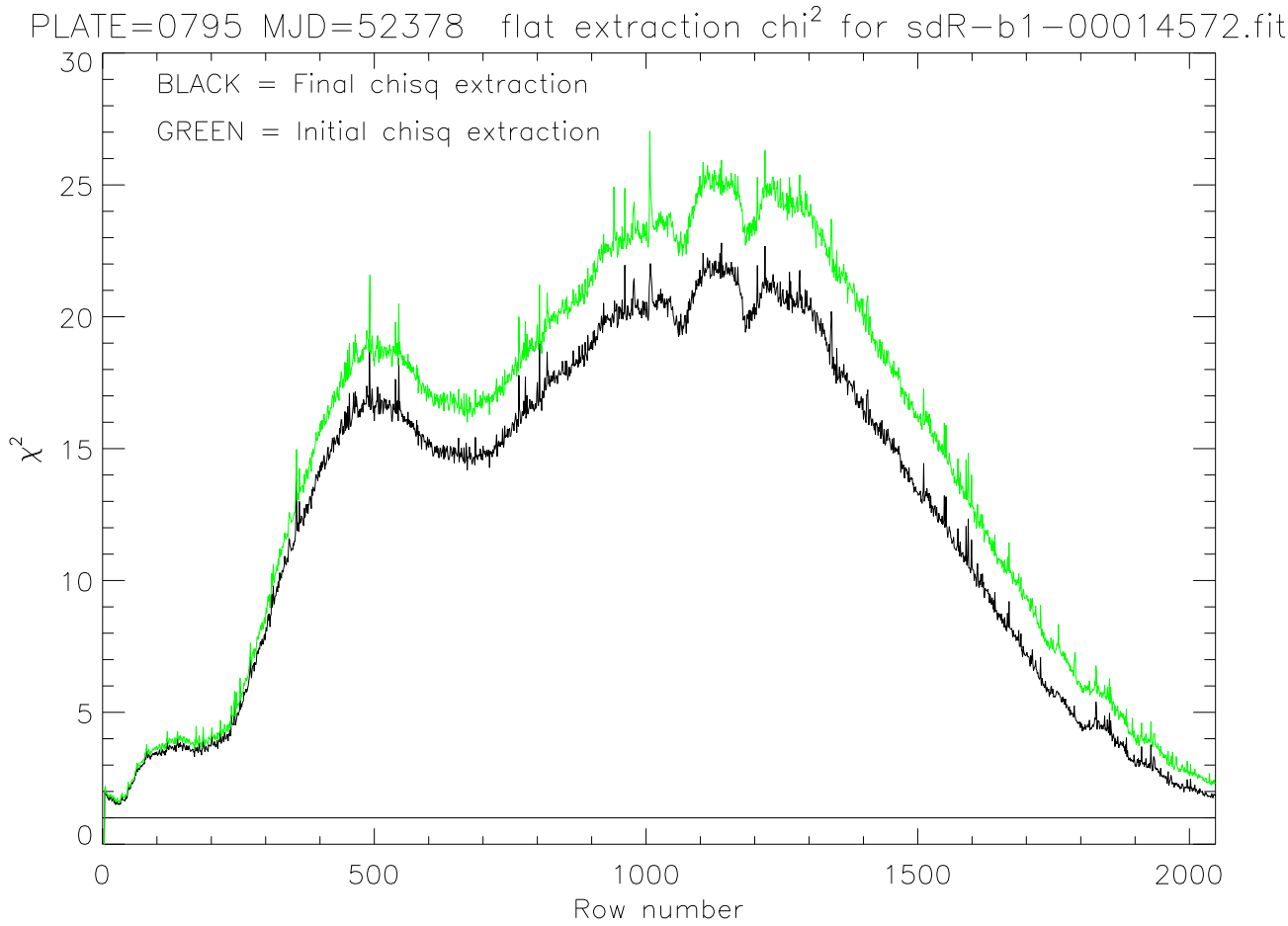

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

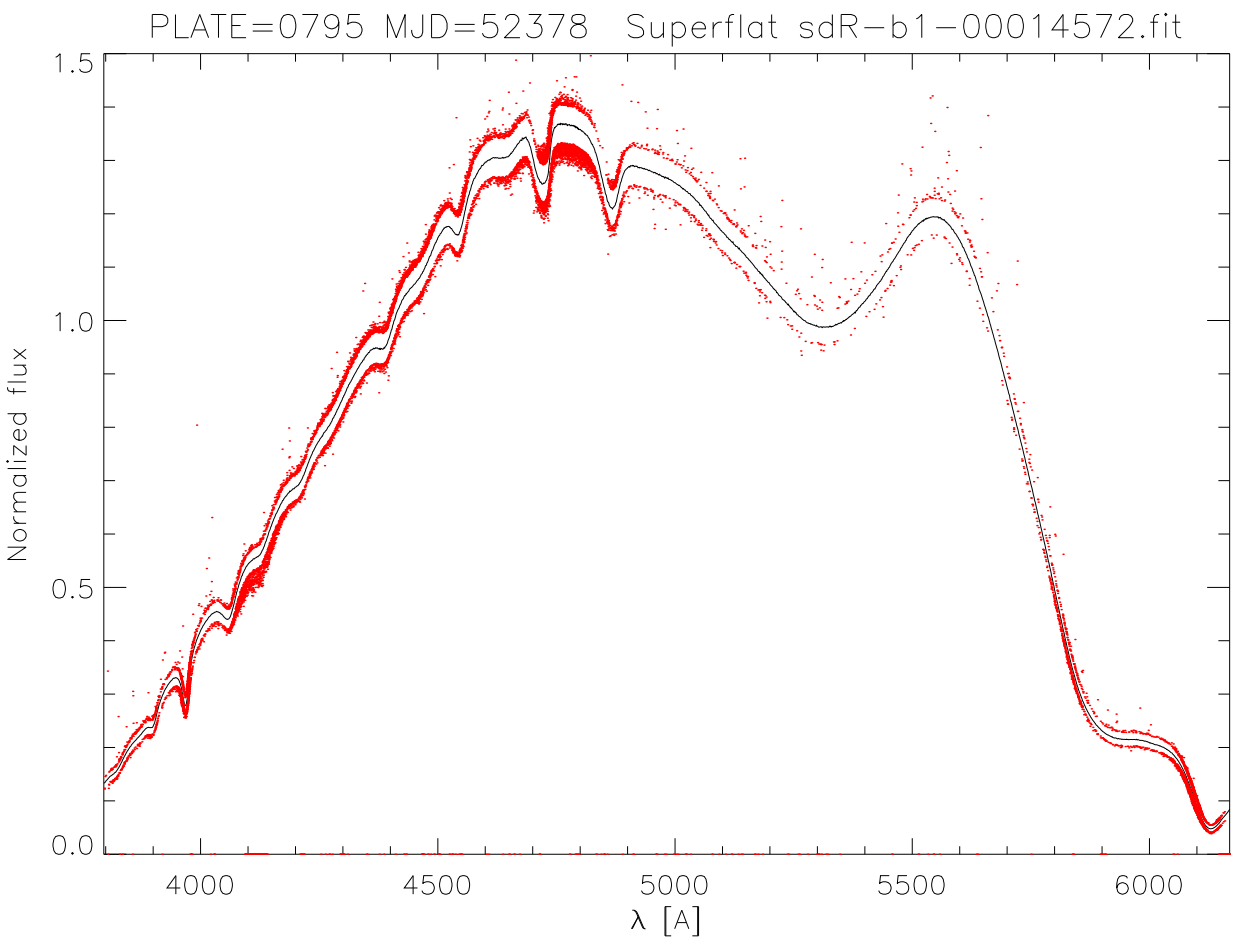

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

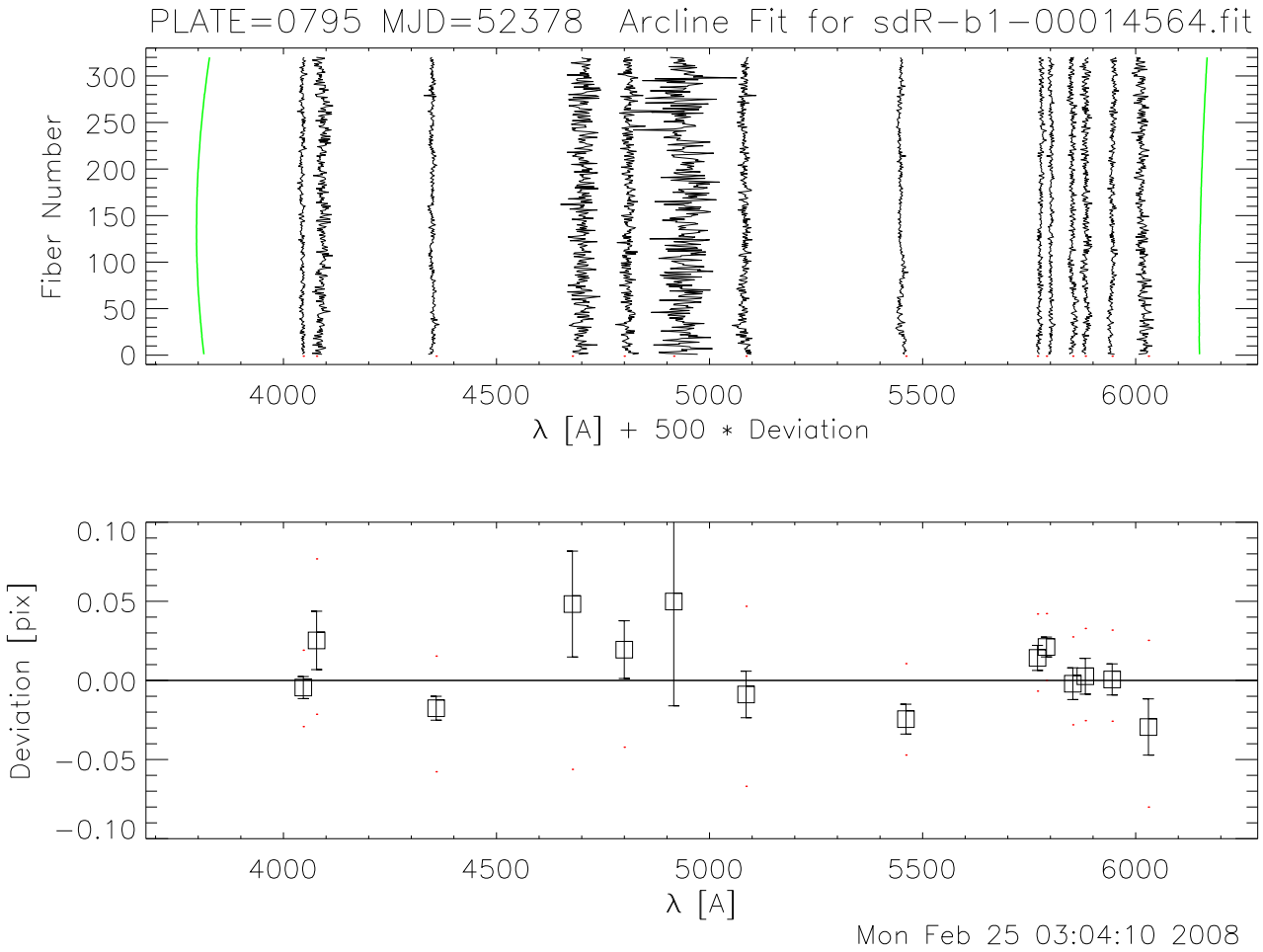

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

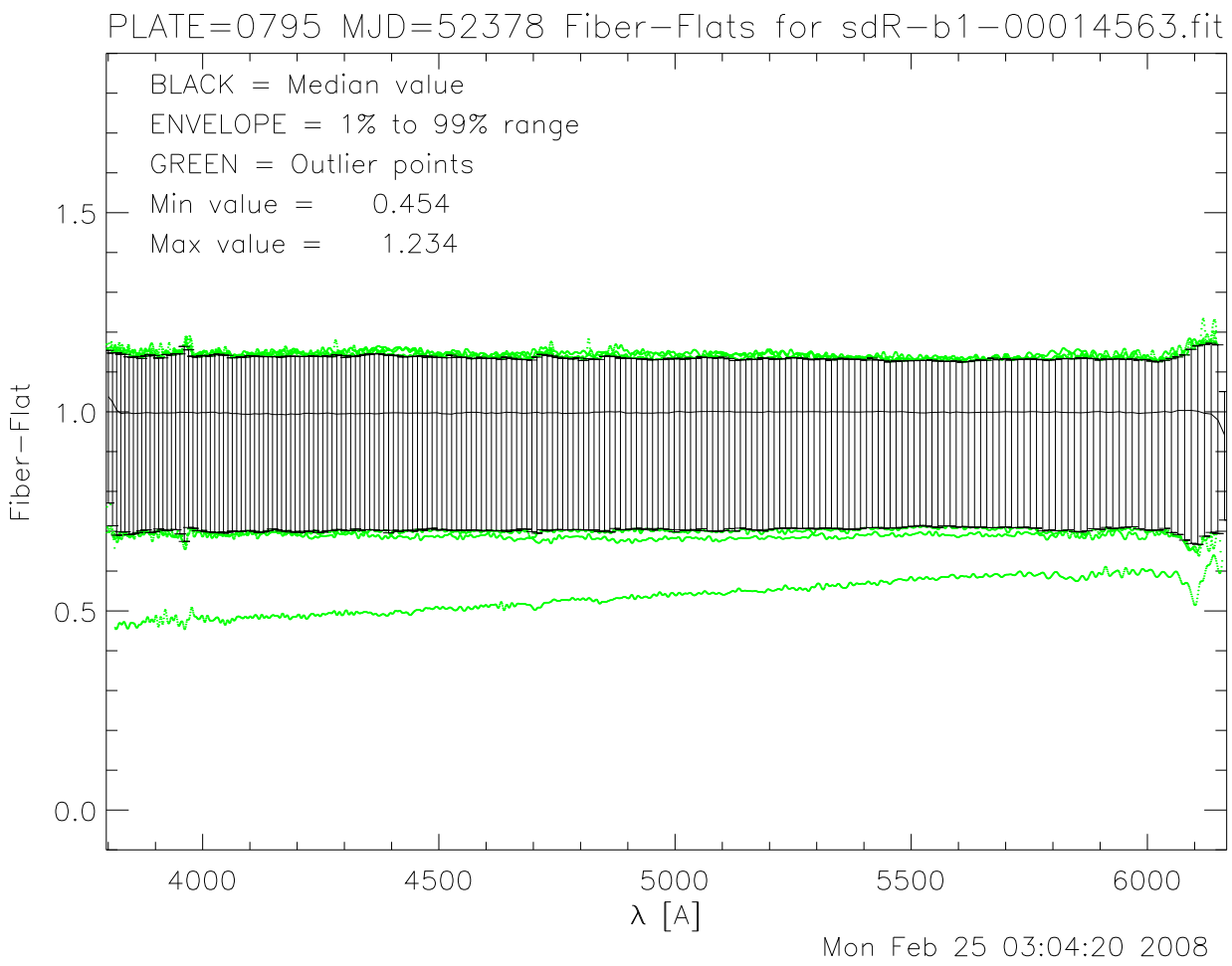

PLATE=0795 MJD=52378 flat extraction chi^2 for sdR−b1−00014563.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
30
20
10
0
0
500
1000
1500
2000
Row number

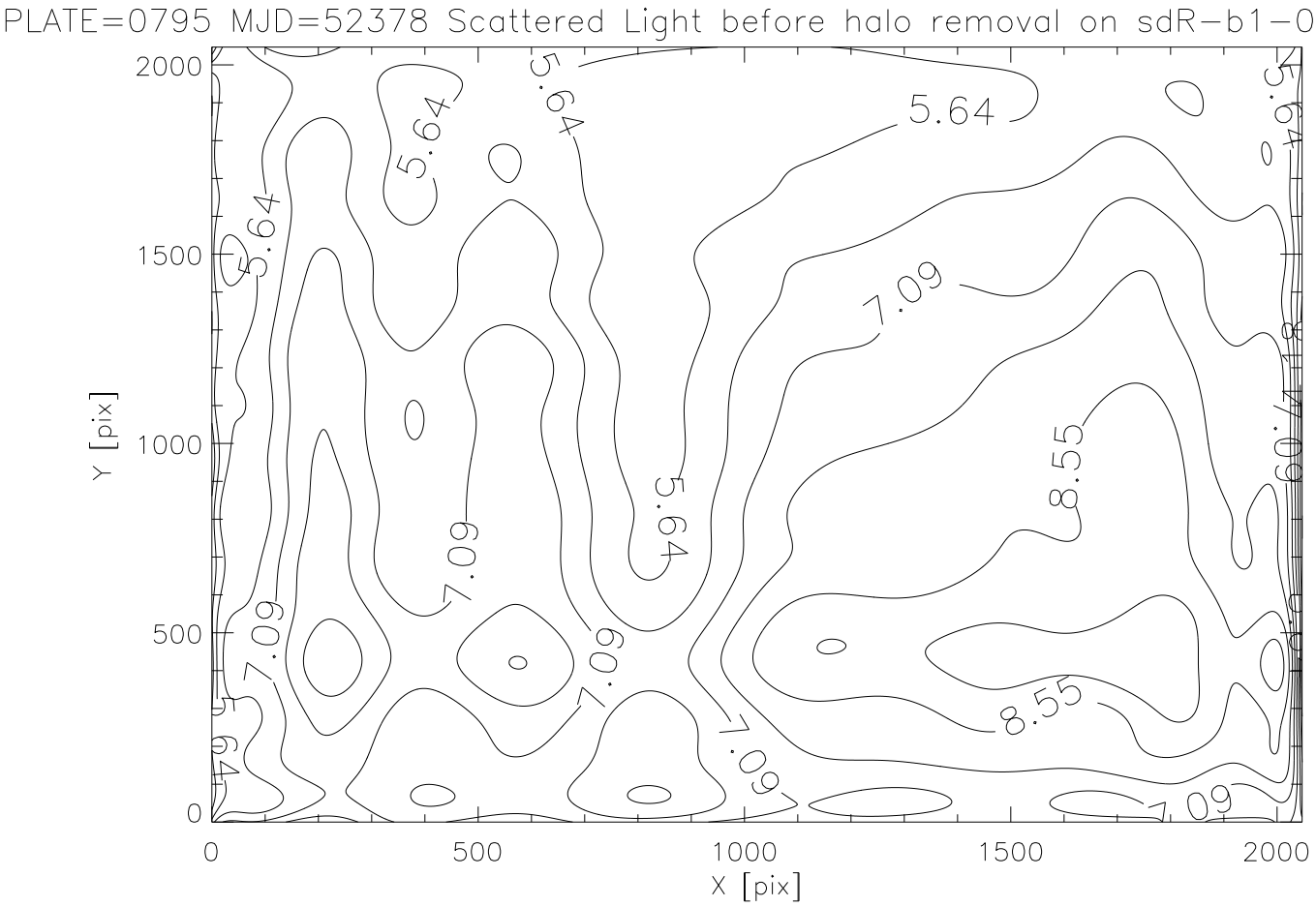

PLATE=0795 MJD=52378 Superflat sdR-b1-00014563.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

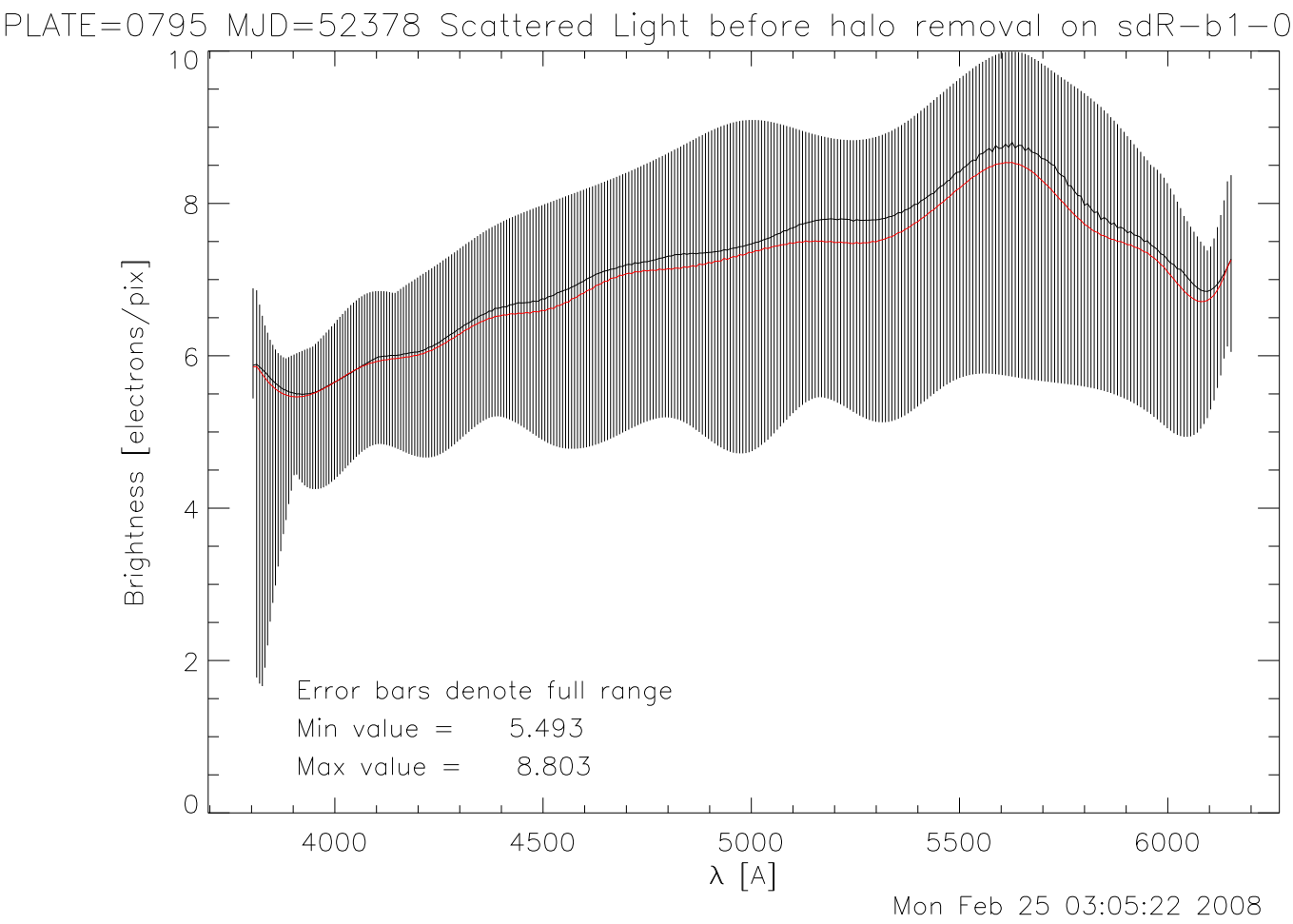

PLATE=0795 MJD=52378 flat extraction chi^2 for sdR−b1−00014572.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
25
30
0
500
1000
1500
2000

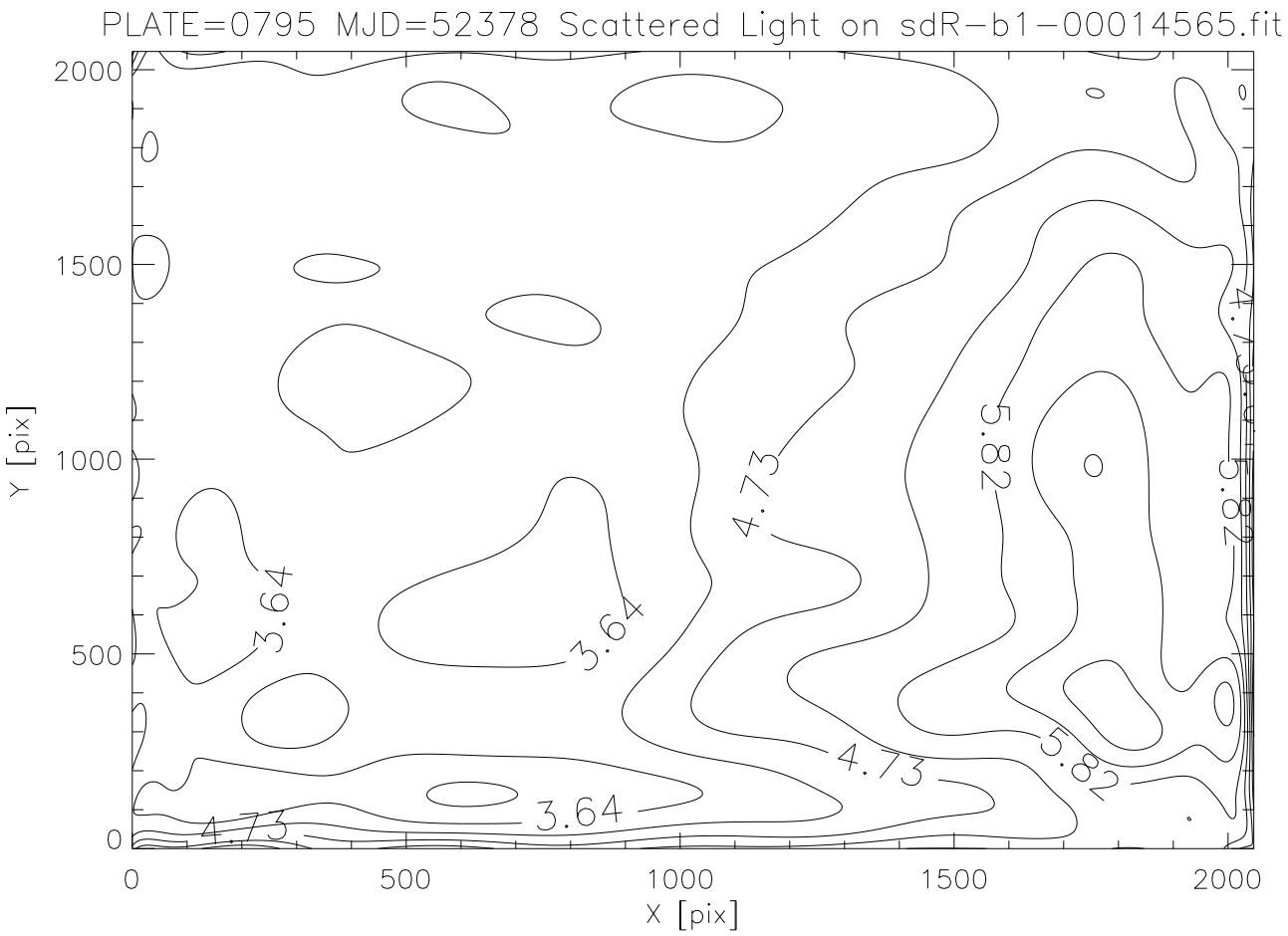

PLATE=0795 MJD=52378 Superflat sdR-b1-00014572.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

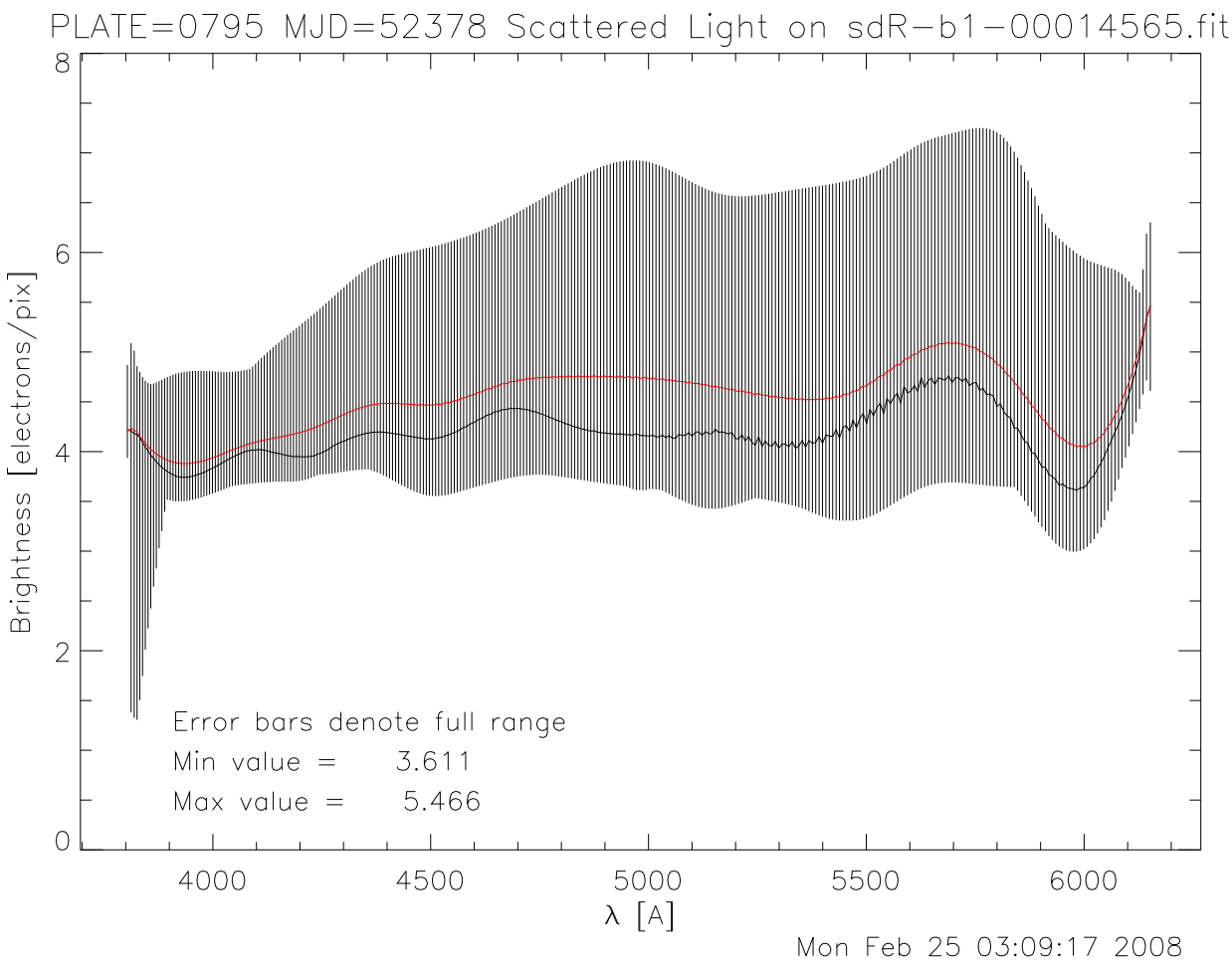

PLATE=0795 MJD=52378 Arcline Fit for sdR-b1-00014564.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:04:10 2008

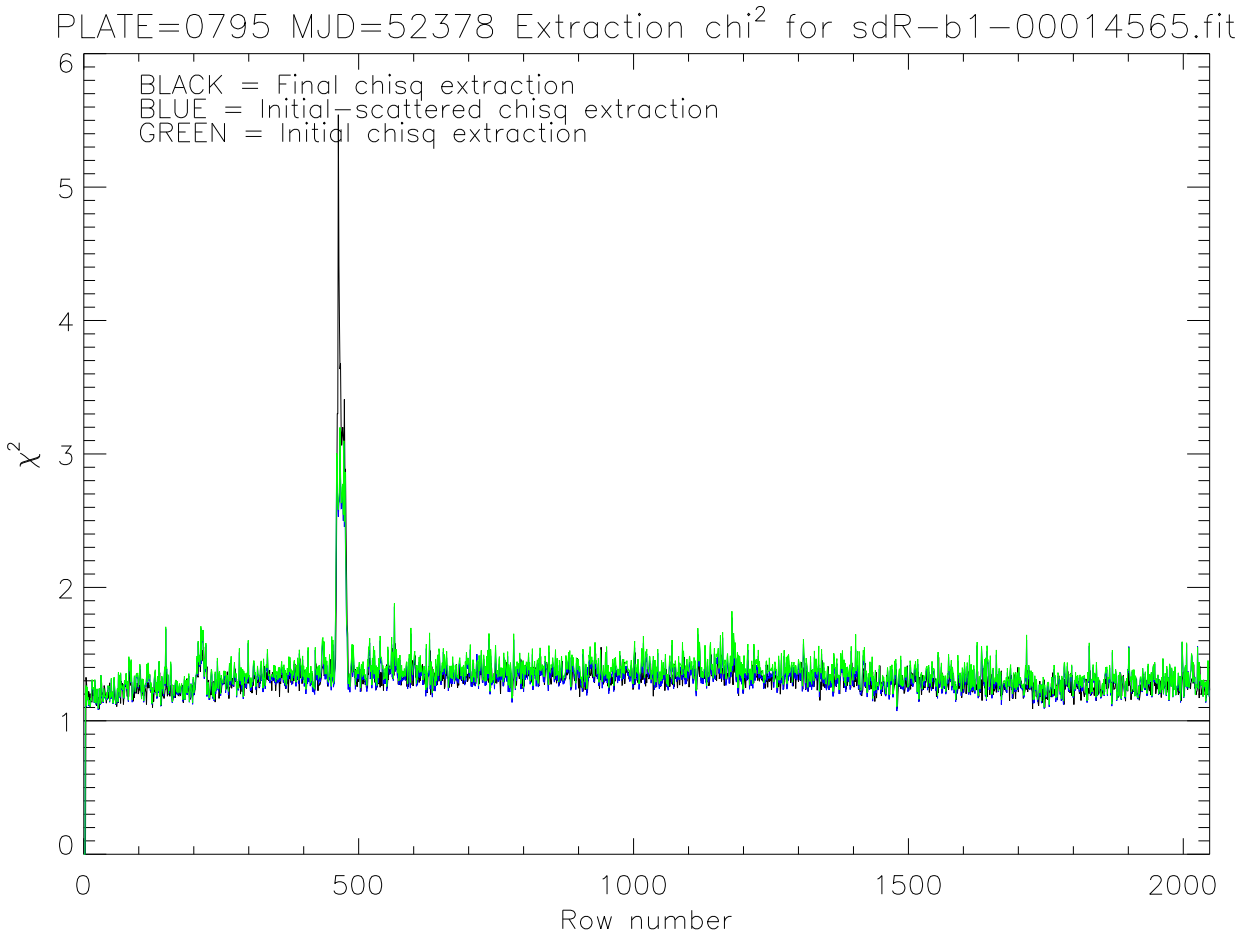

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.454
Max value = 1.234
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:04:20 2008

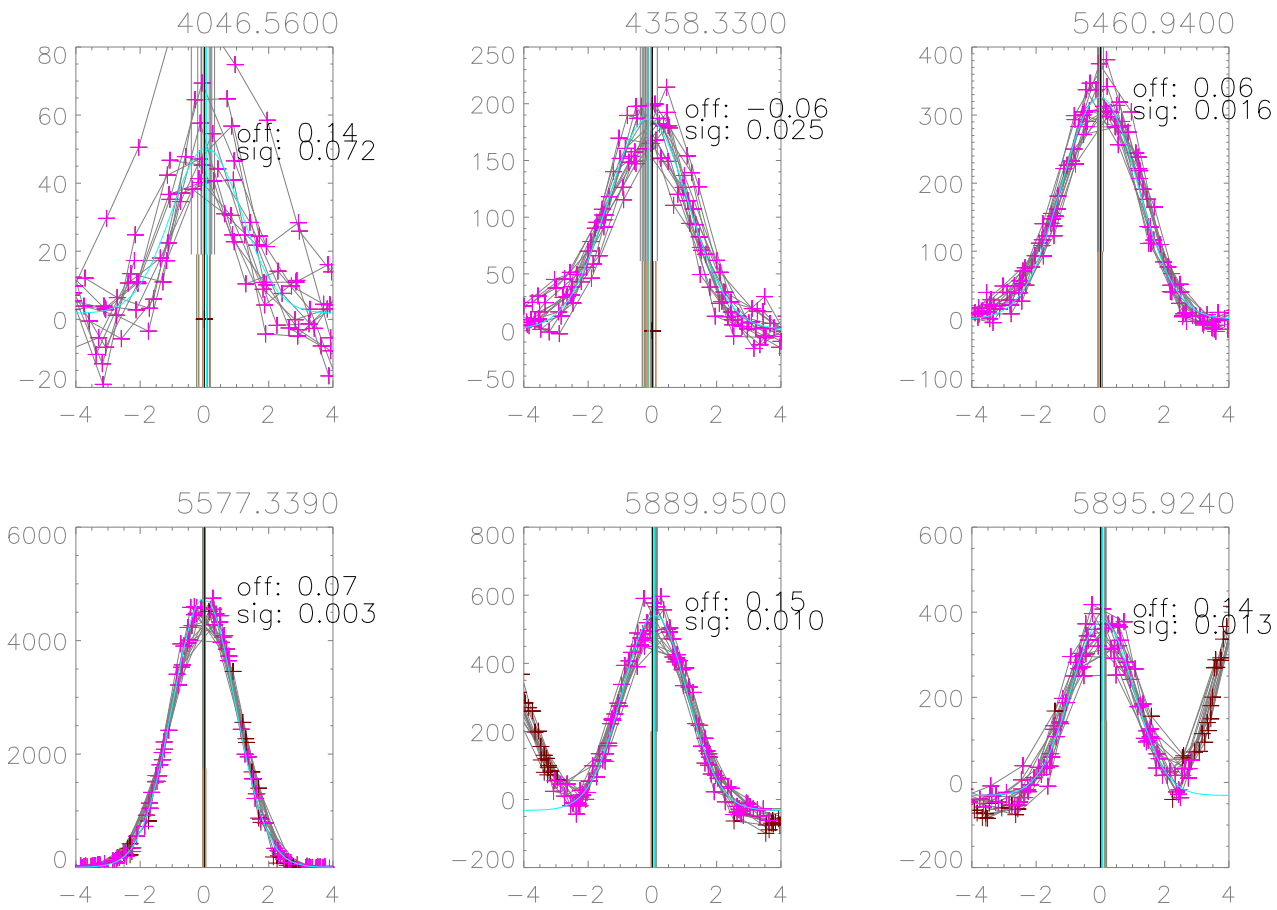

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−b1−00014565.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
7.09
8.55
0

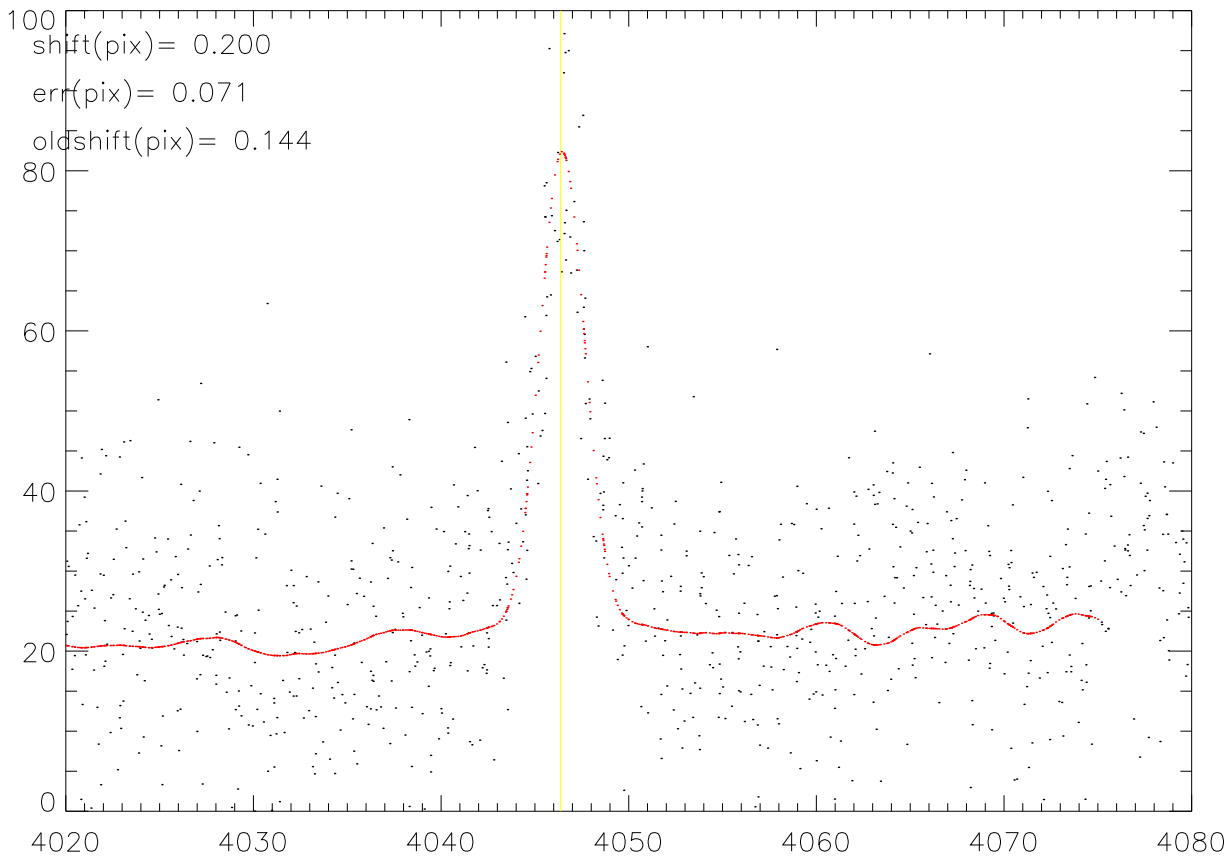

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b1-00014565.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.493
Max value = 8.803
Mon Feb 25 03:05:22 2008

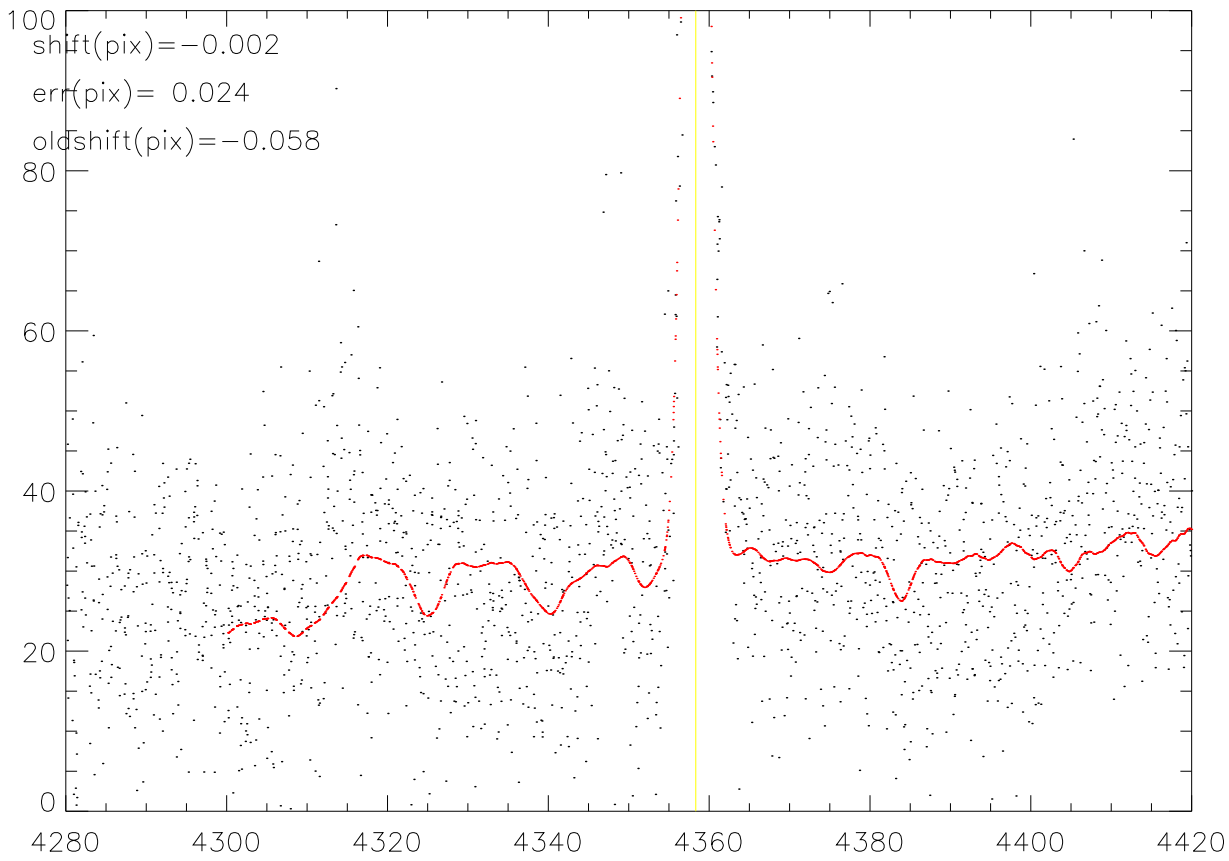

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014565.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.64
4.73
5.82
7.00

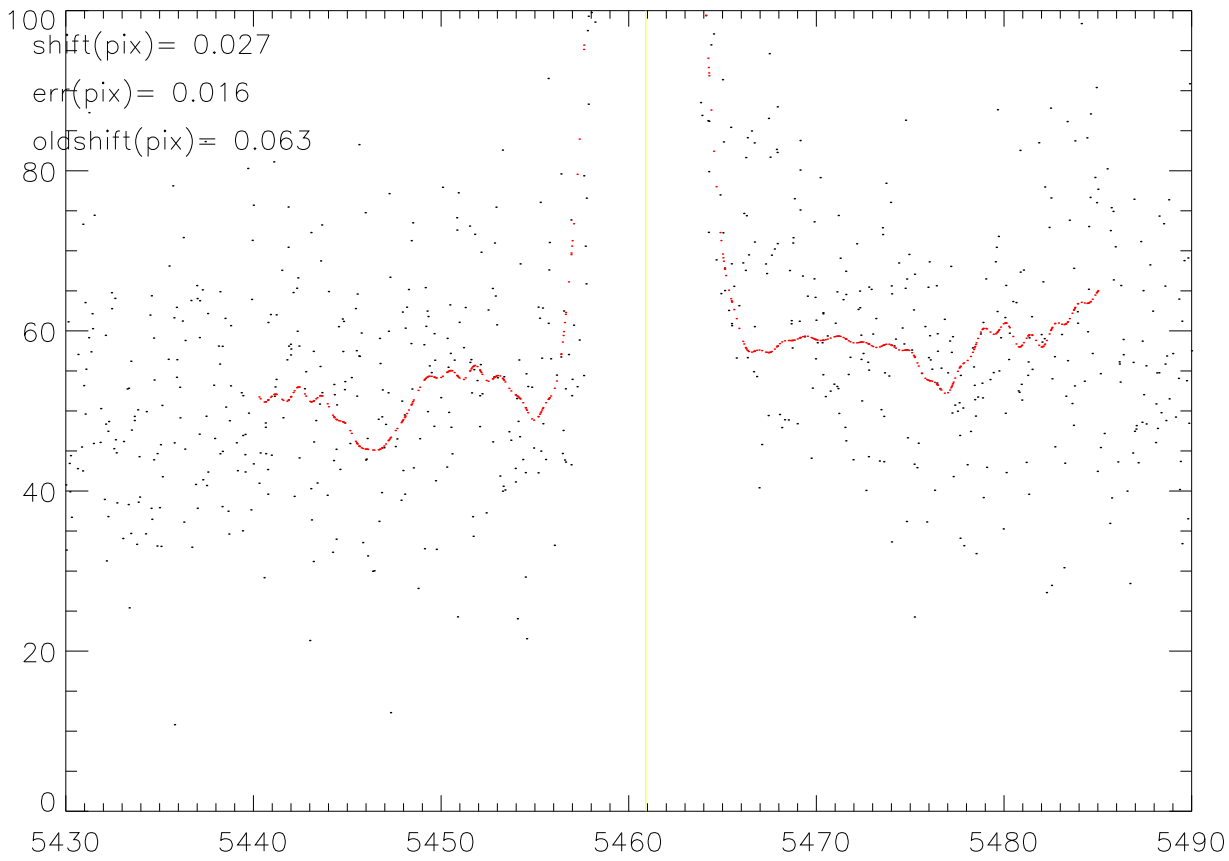

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014565.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.611
Max value = 5.466
Mon Feb 25 03:09:17 2008

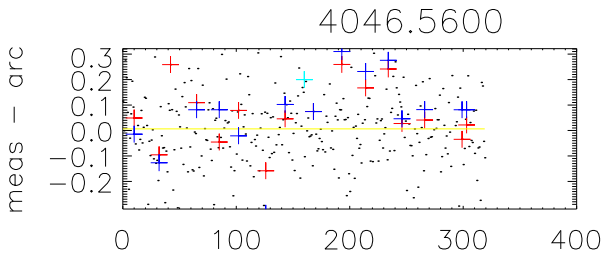

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b1-00014565.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

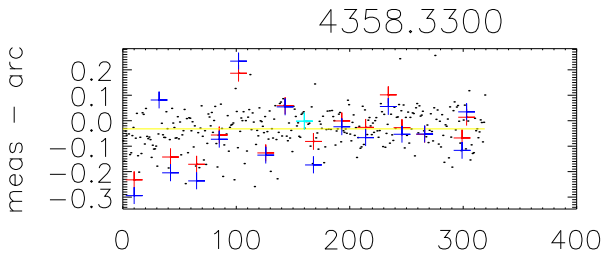

4046.5600
off: 0.14
sig: 0.072
4358.3300
off: −0.06
sig: 0.025
5460.9400
off: 0.06
sig: 0.016
5577.3390
off: 0.07
sig: 0.003
5889.9500
off: 0.15
sig: 0.010
5895.9240
off: 0.14
sig: 0.013

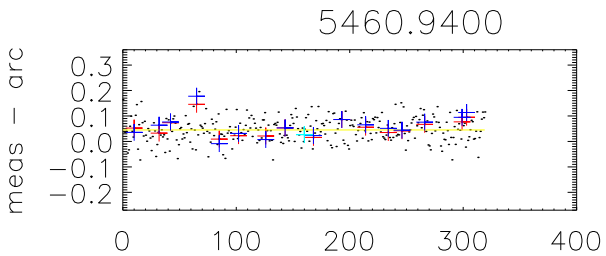

shift(pix)= 0.200
err(pix)= 0.071
oldshift(pix)= 0.144
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

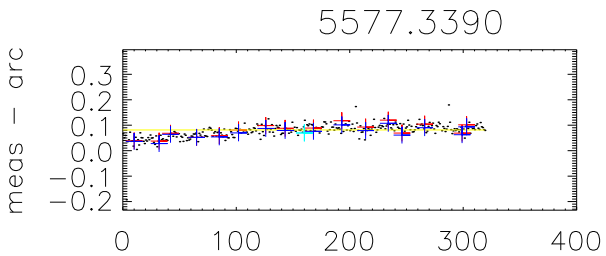

shift(pix)=−0.002
err(pix)= 0.024
oldshift(pix)=−0.058
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

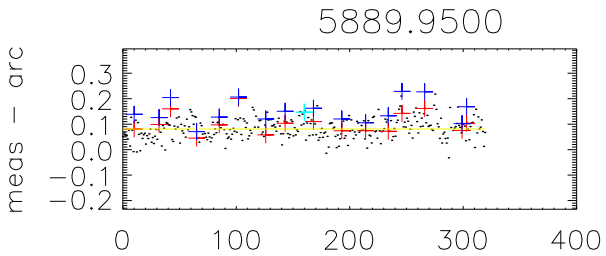

shift(pix)= 0.027
err(pix)= 0.016
oldshift(pix)= 0.063
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

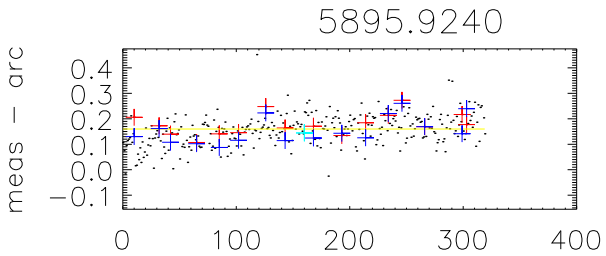

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

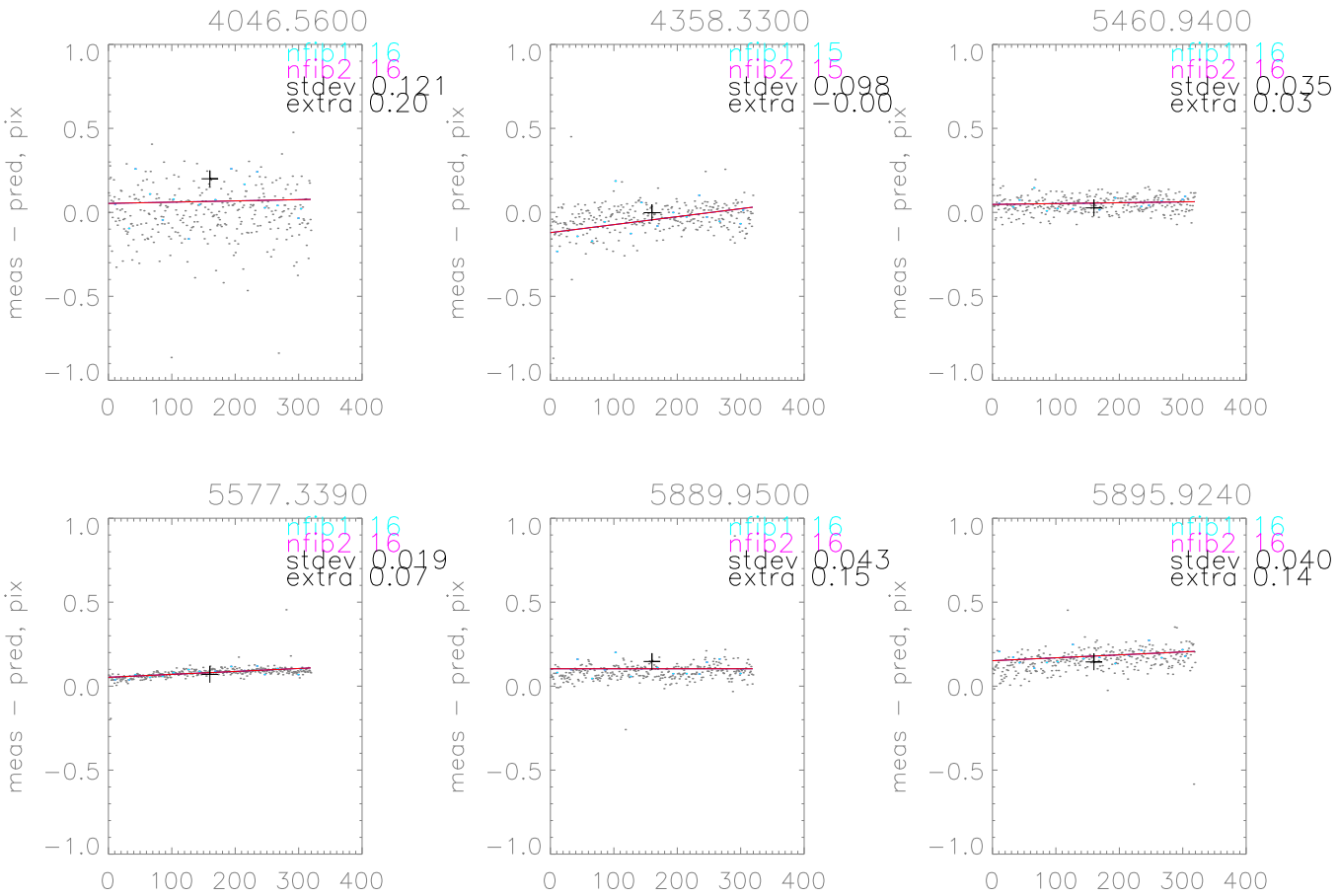

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

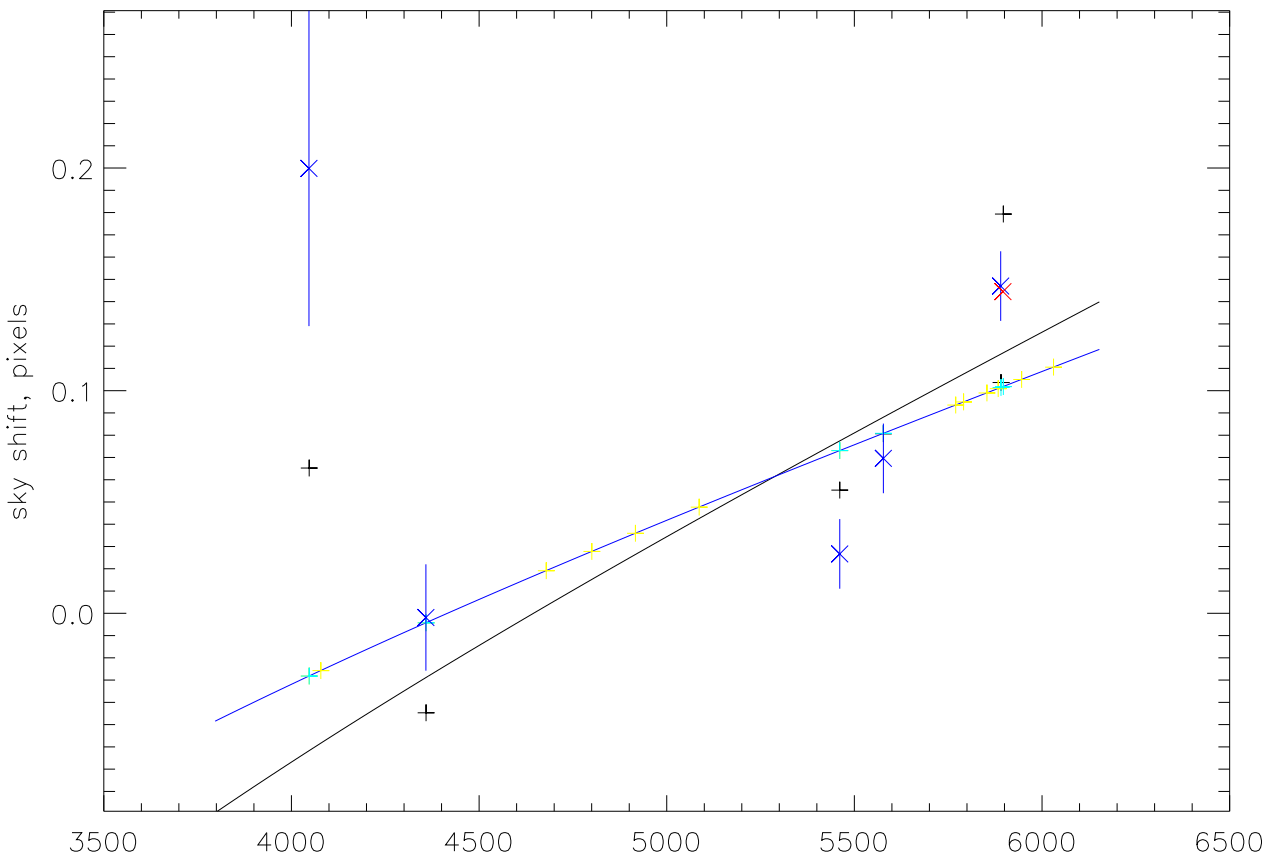

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

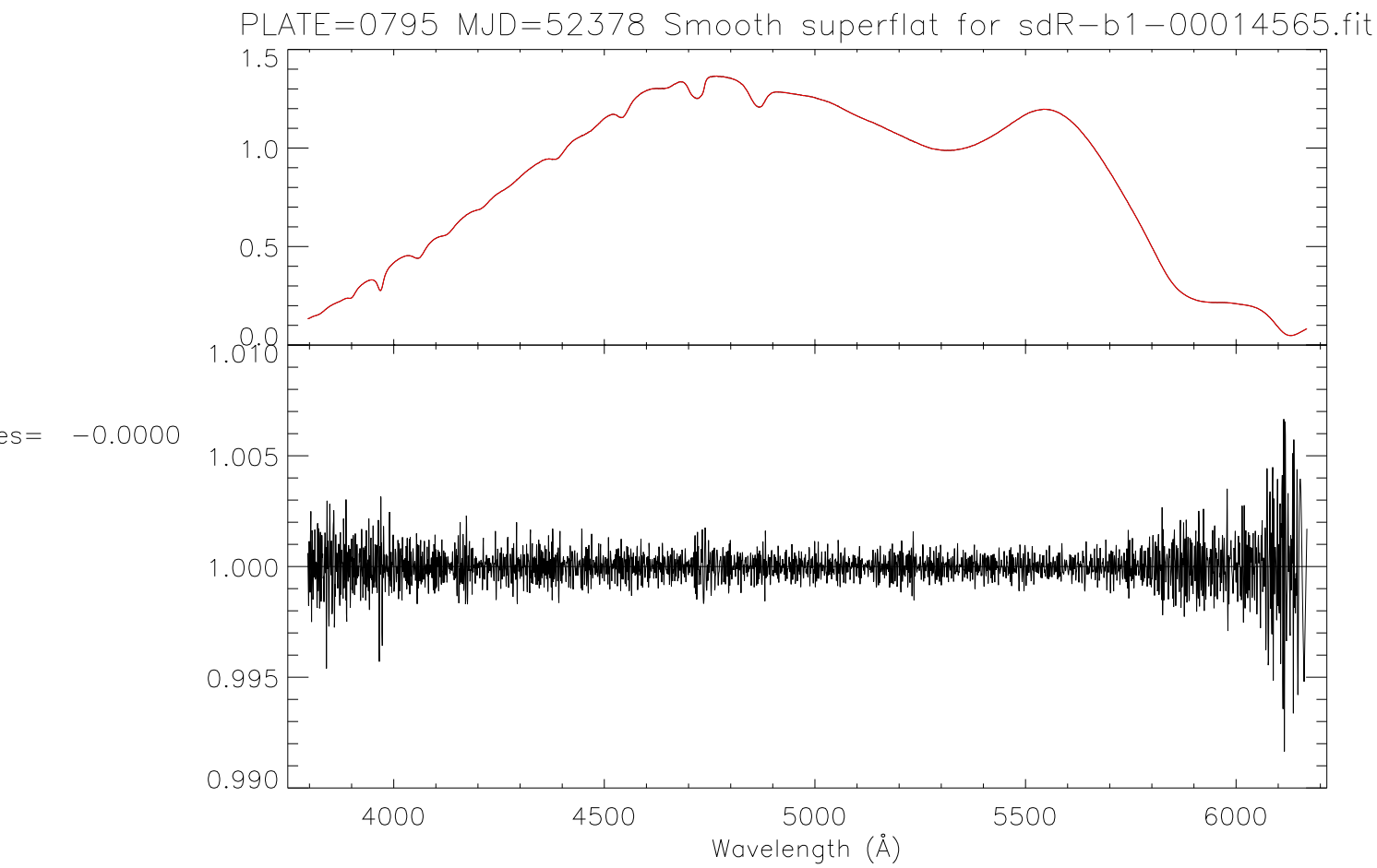

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

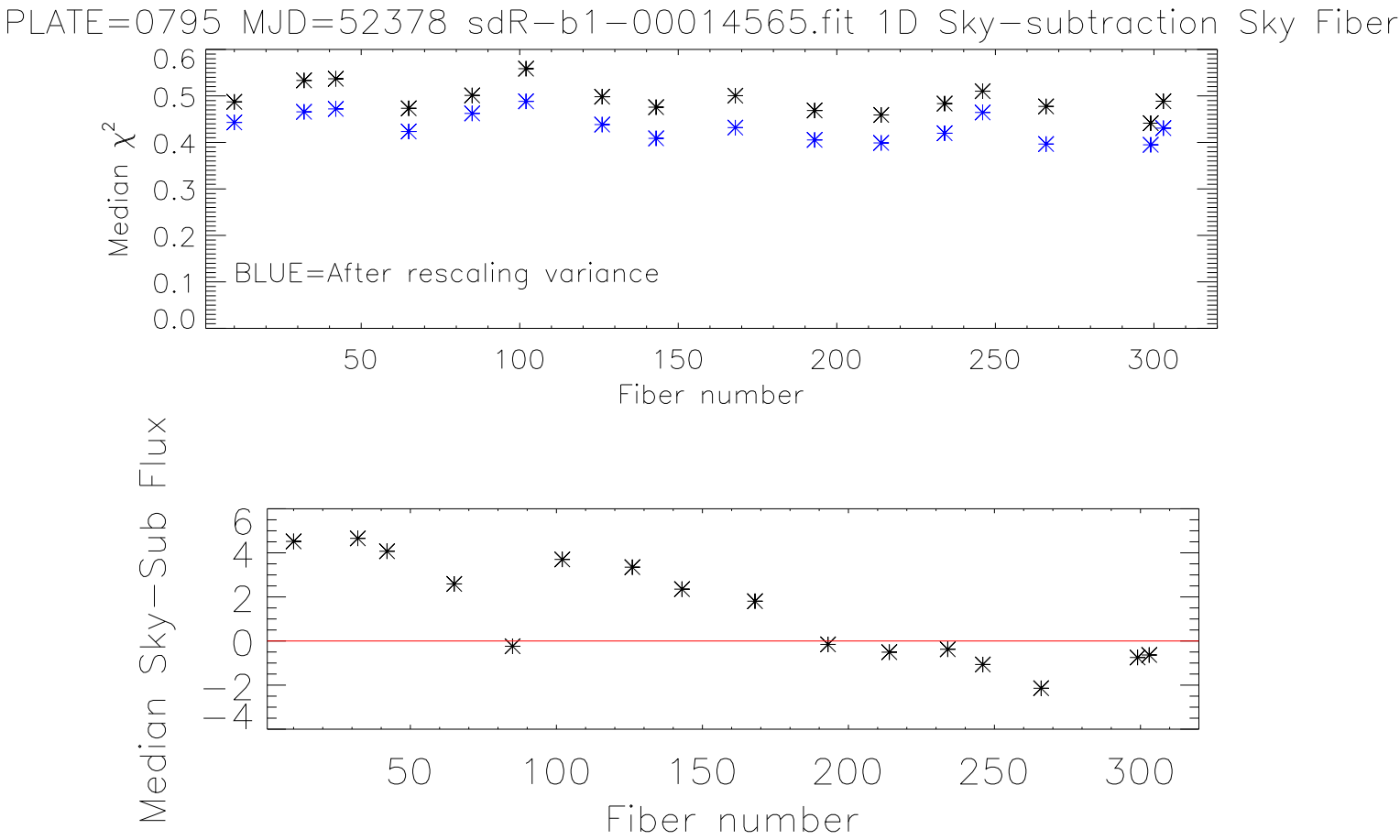

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

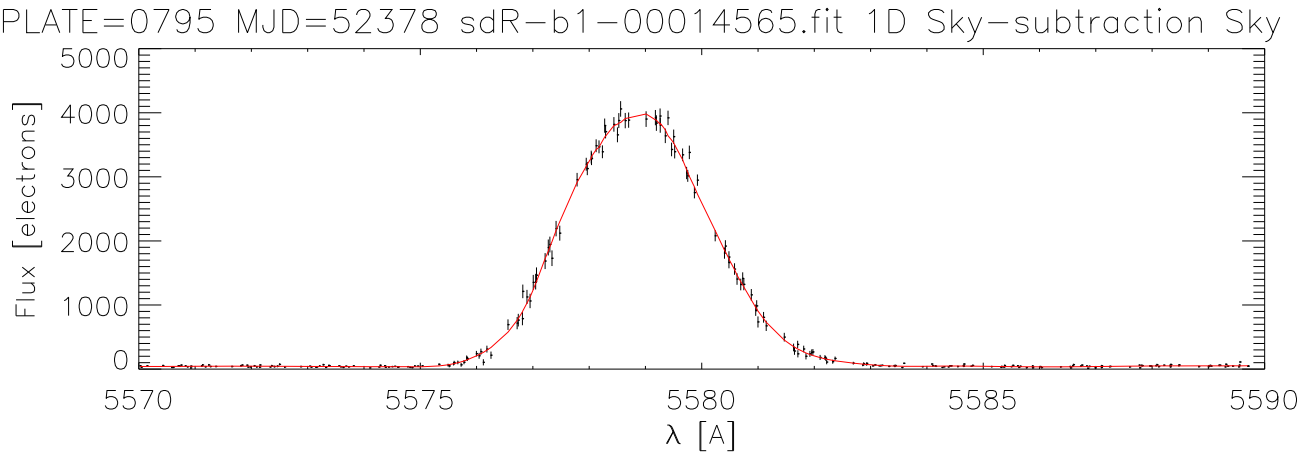

4046.5600
nfib1 16
nfib2 16
stdev 0.121
extra 0.20
4358.3300
nfib1 15
nfib2 15
stdev 0.098
extra −0.00
5460.9400
nfib1 16
nfib2 16
stdev 0.035
extra 0.03
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra 0.07
5889.9500
nfib1 16
nfib2 16
stdev 0.043
extra 0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.040
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

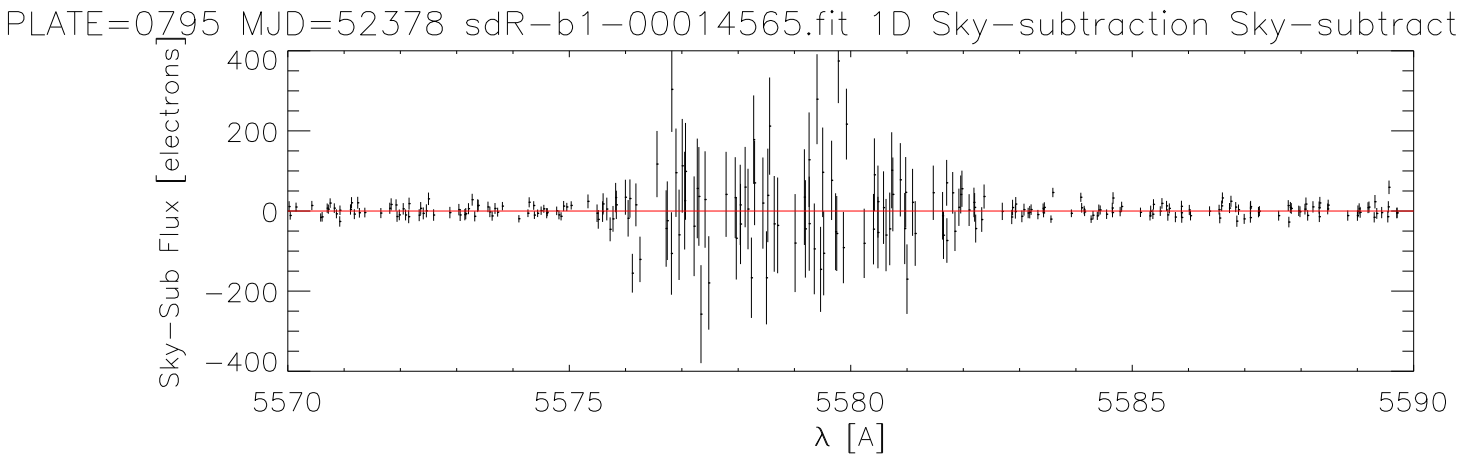

sky shift, pixels
0.2
0.1
0.0
3500
4000
4500
5000
5500
6000
6500

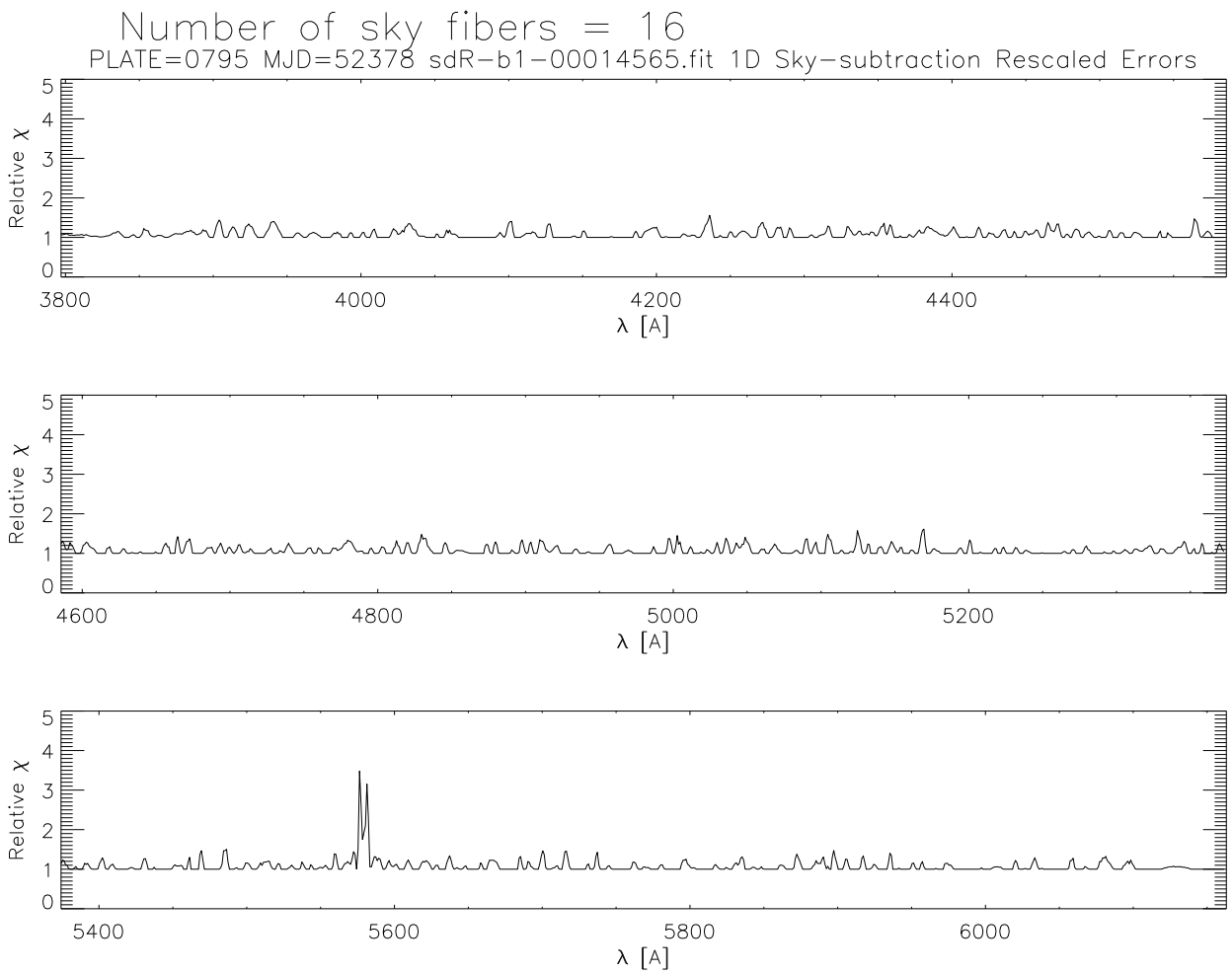

PLATE=0795 MJD=52378 Smooth superflat for sdR-b1-00014565.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

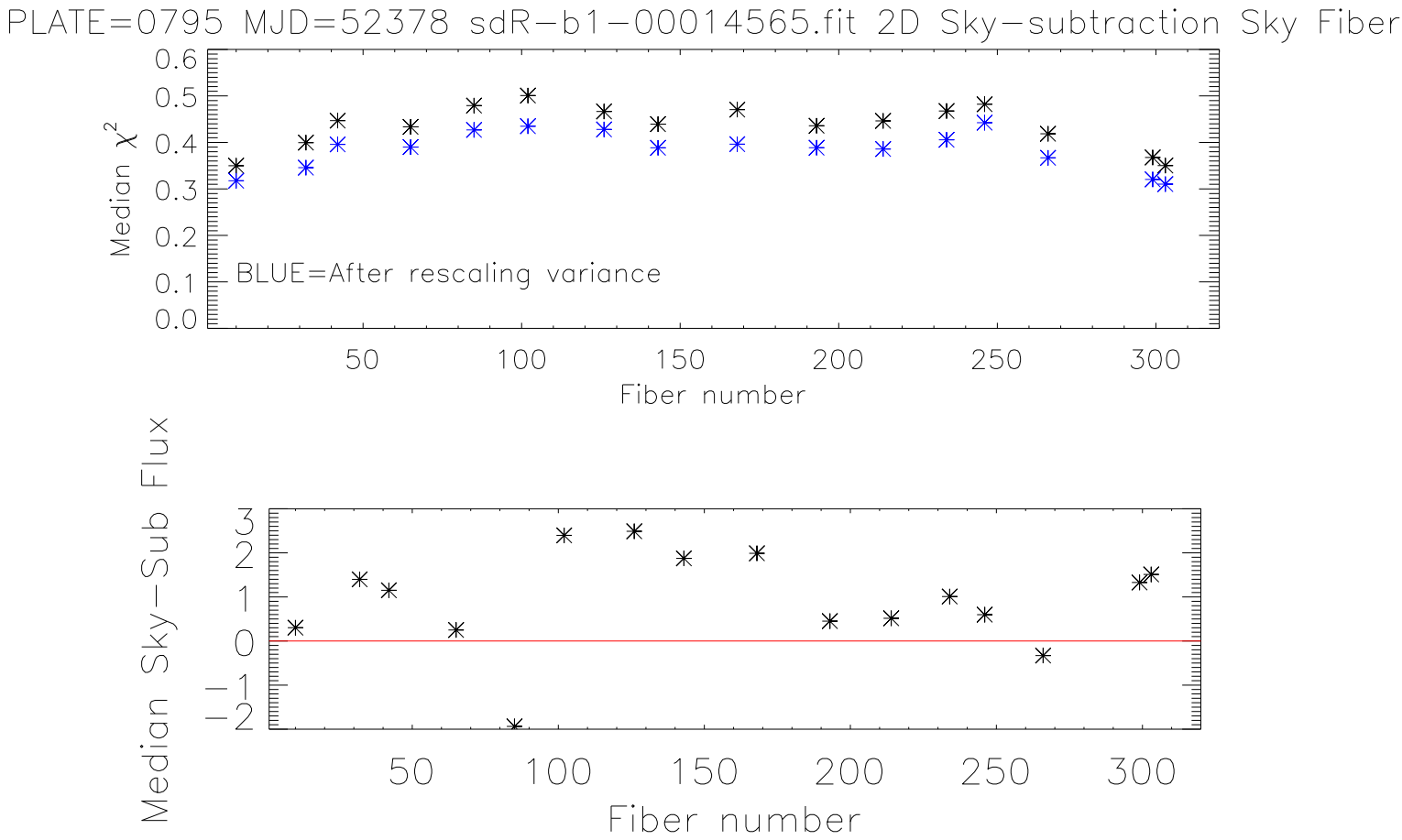
es= −0.0000

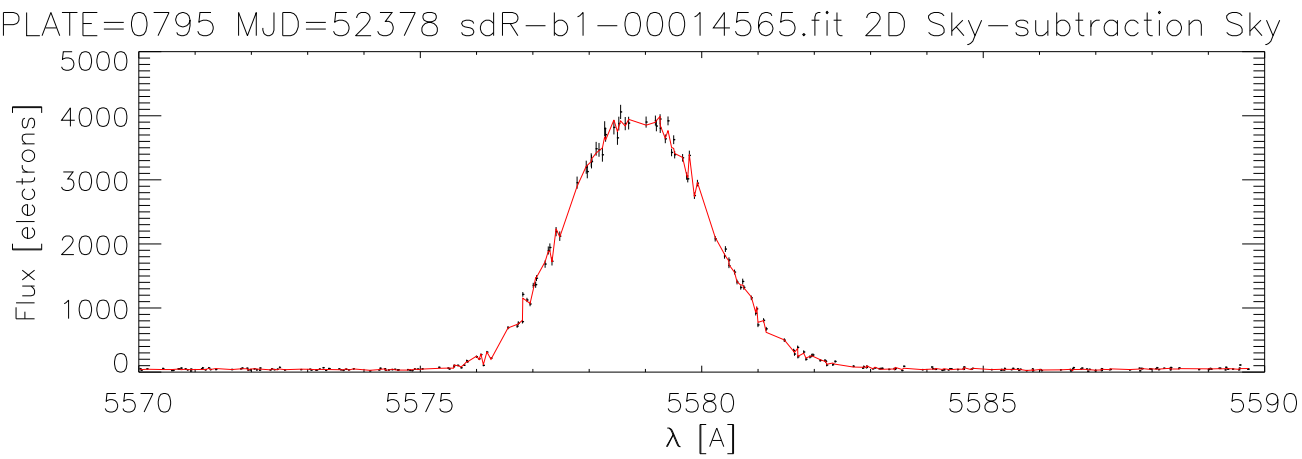

PLATE=0795 MJD=52378 sdR-b1-00014565.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

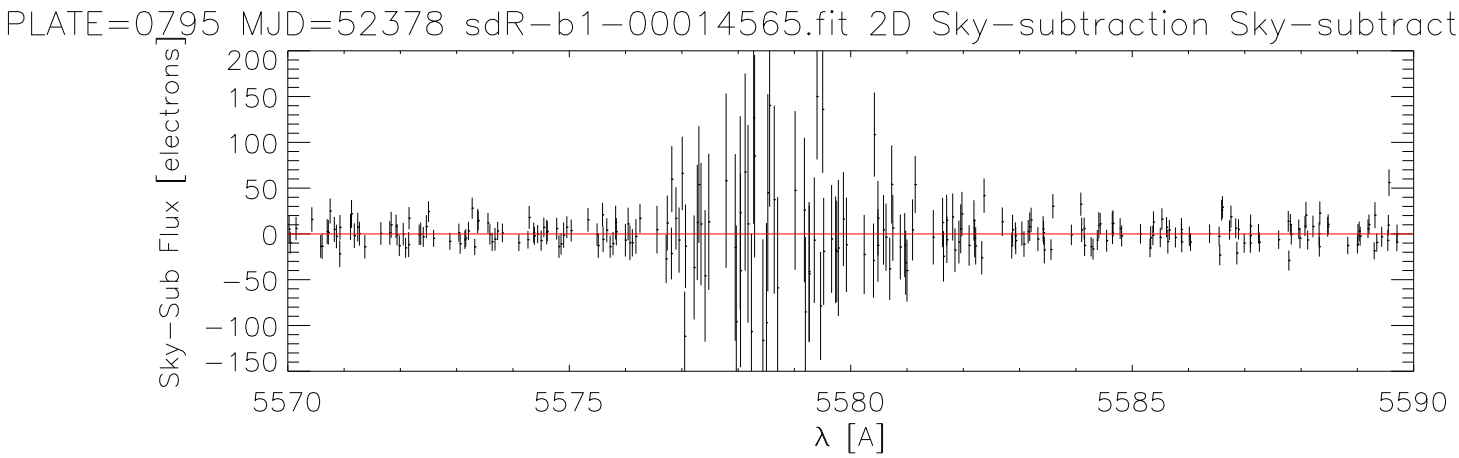

PLATE=0795 MJD=52378 sdR-b1-00014565.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

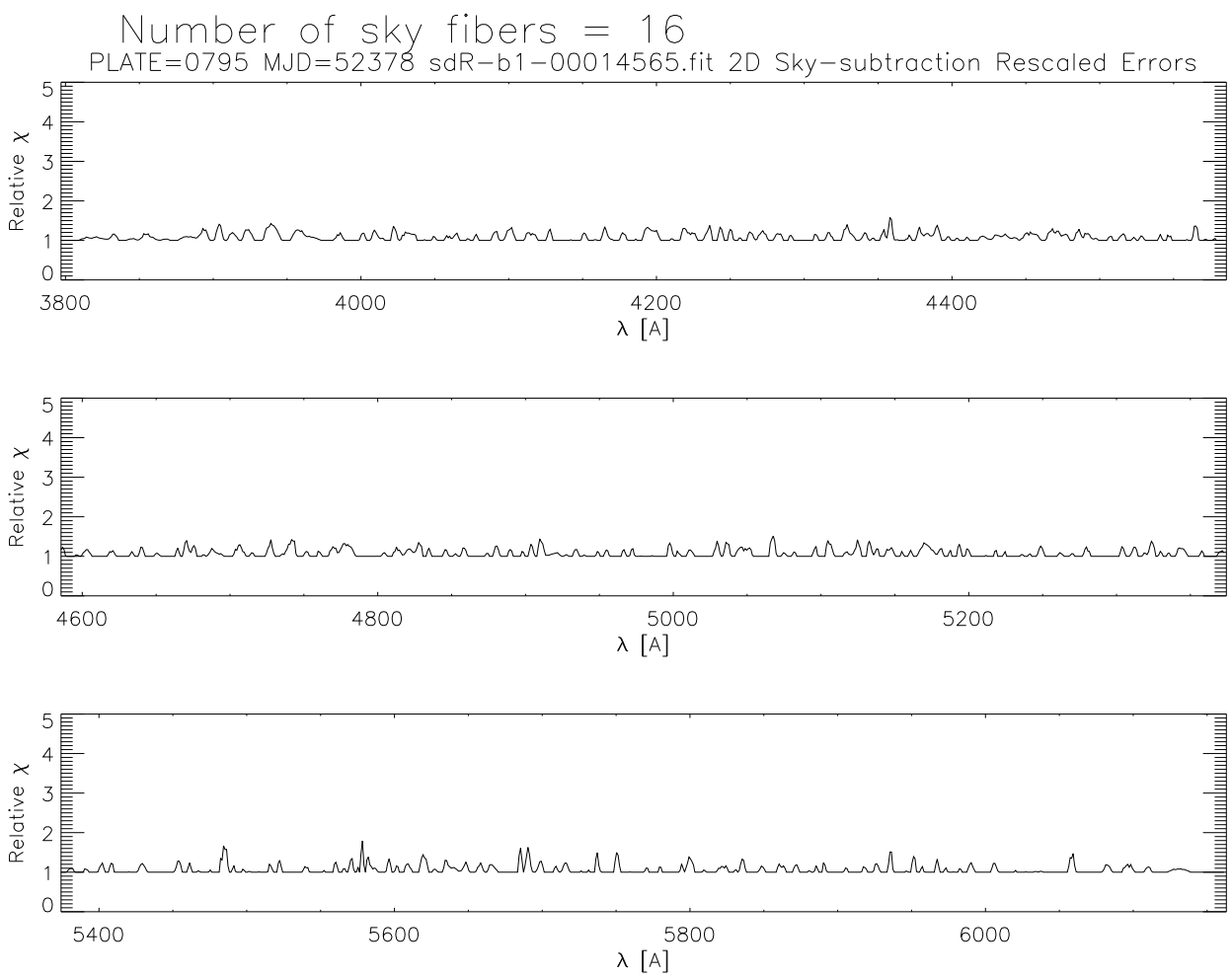

PLATE=0795 MJD=52378 sdR-b1-00014565.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

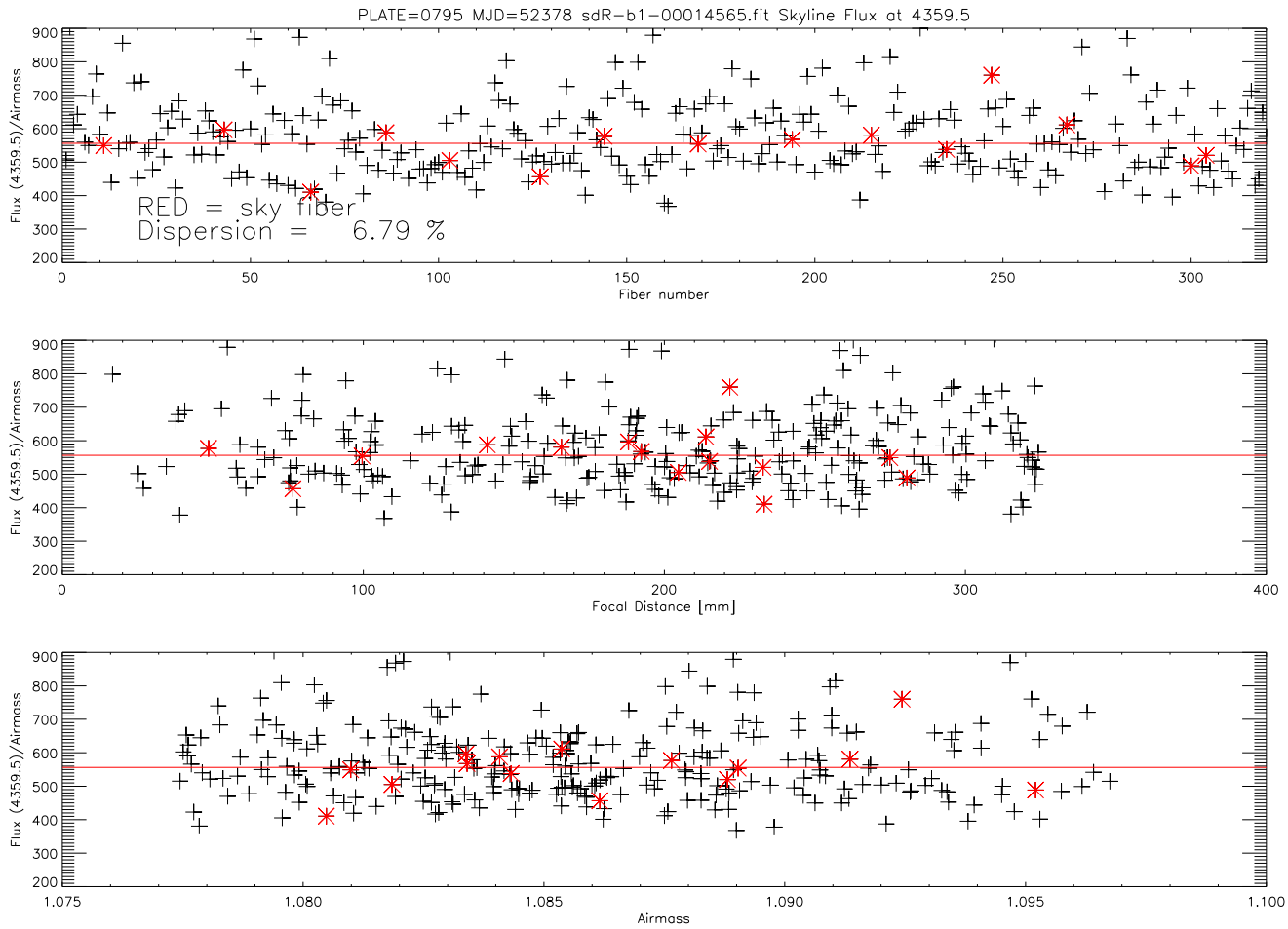

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014565.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

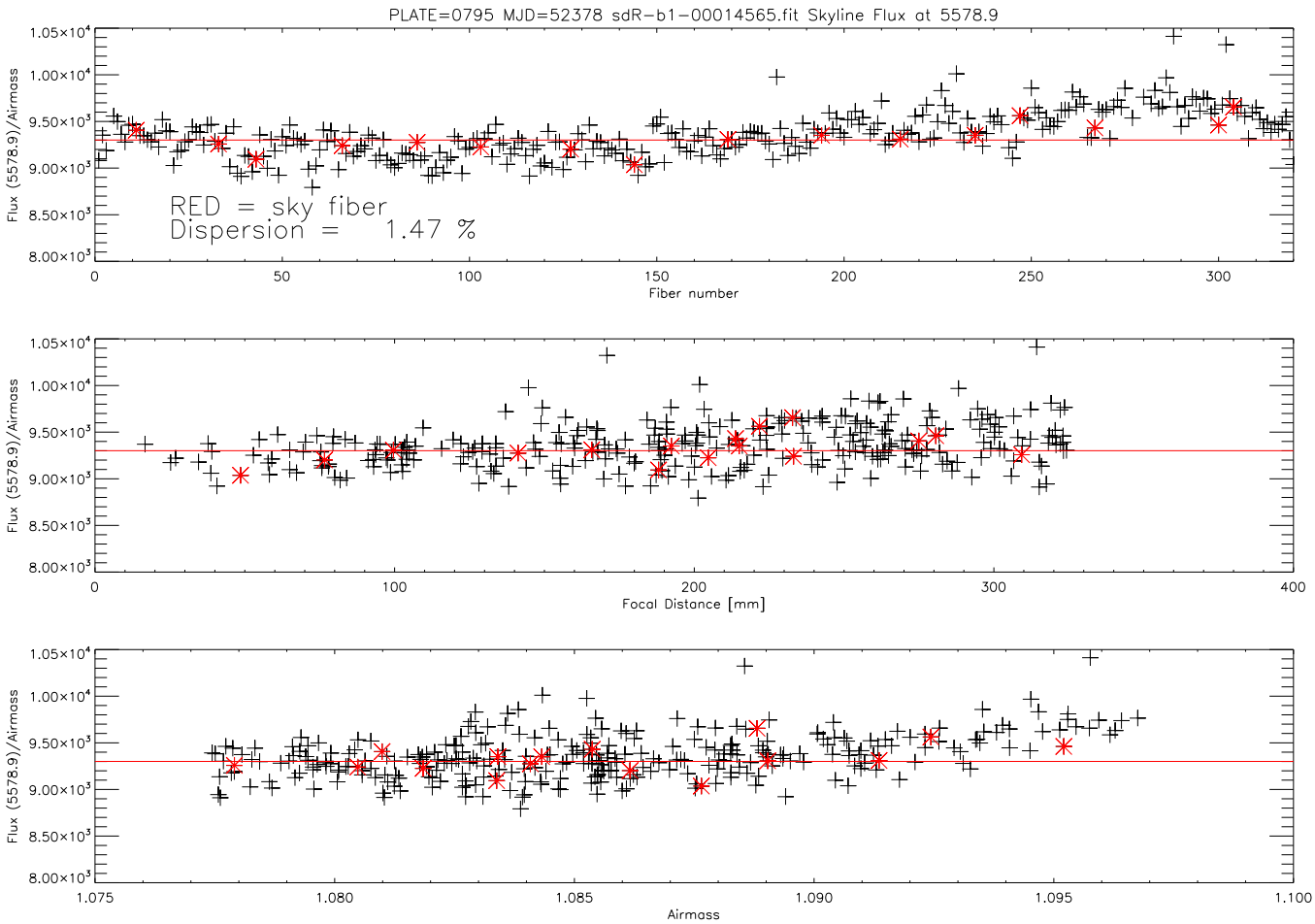

PLATE=0795 MJD=52378 sdR-b1-00014565.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

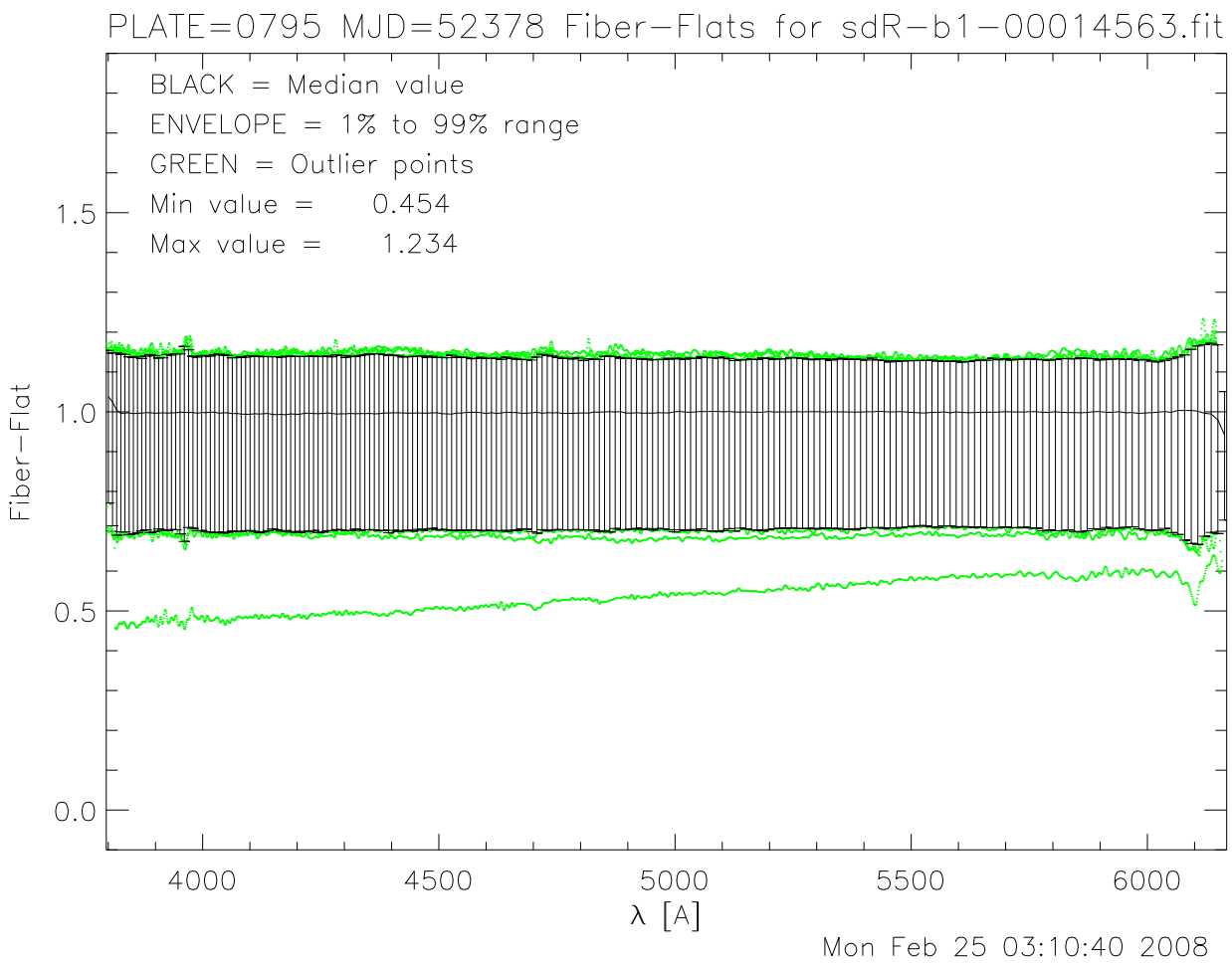

PLATE=0795 MJD=52378 sdR-b1-00014565.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

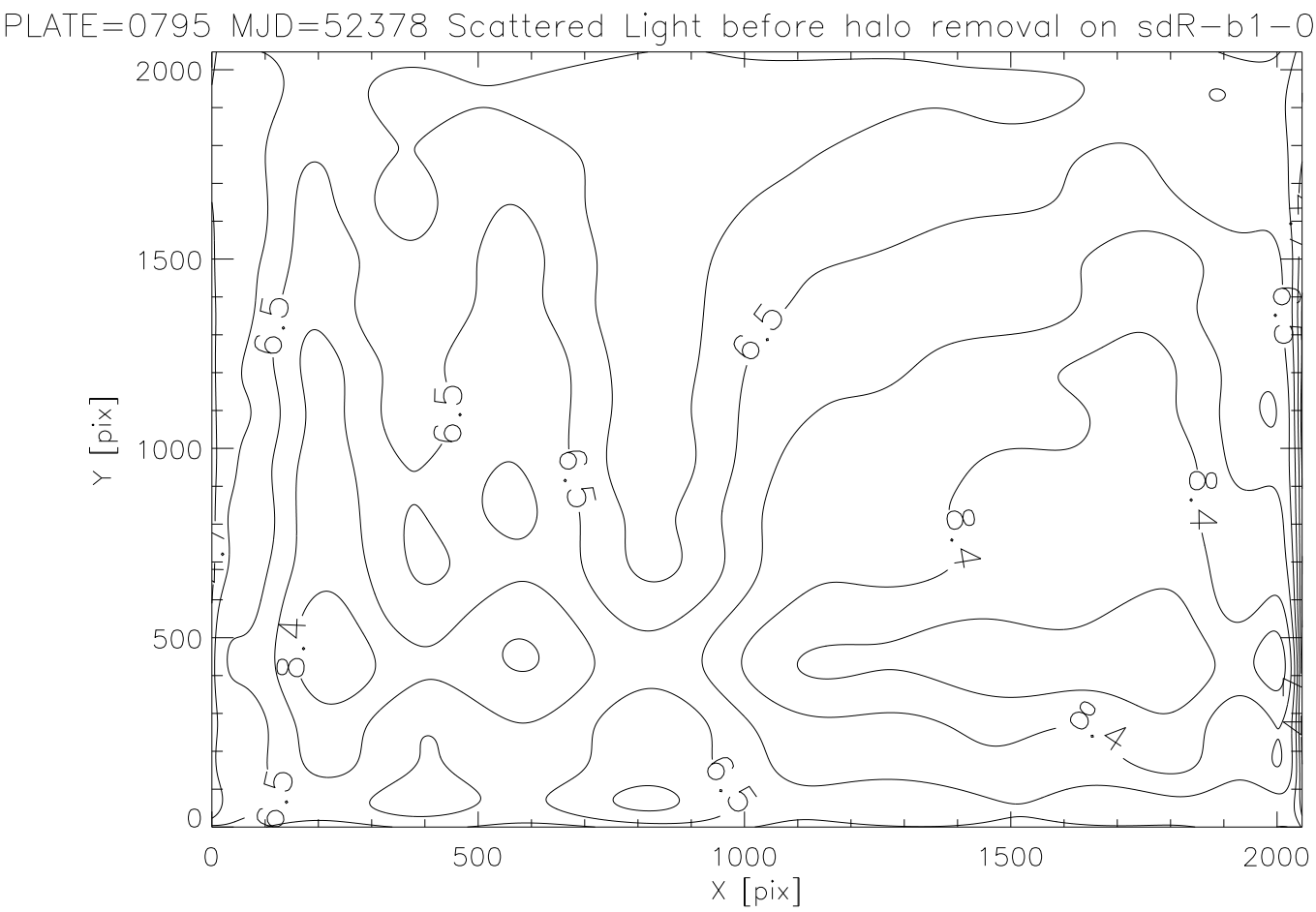

PLATE=0795 MJD=52378 sdR-b1-00014565.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

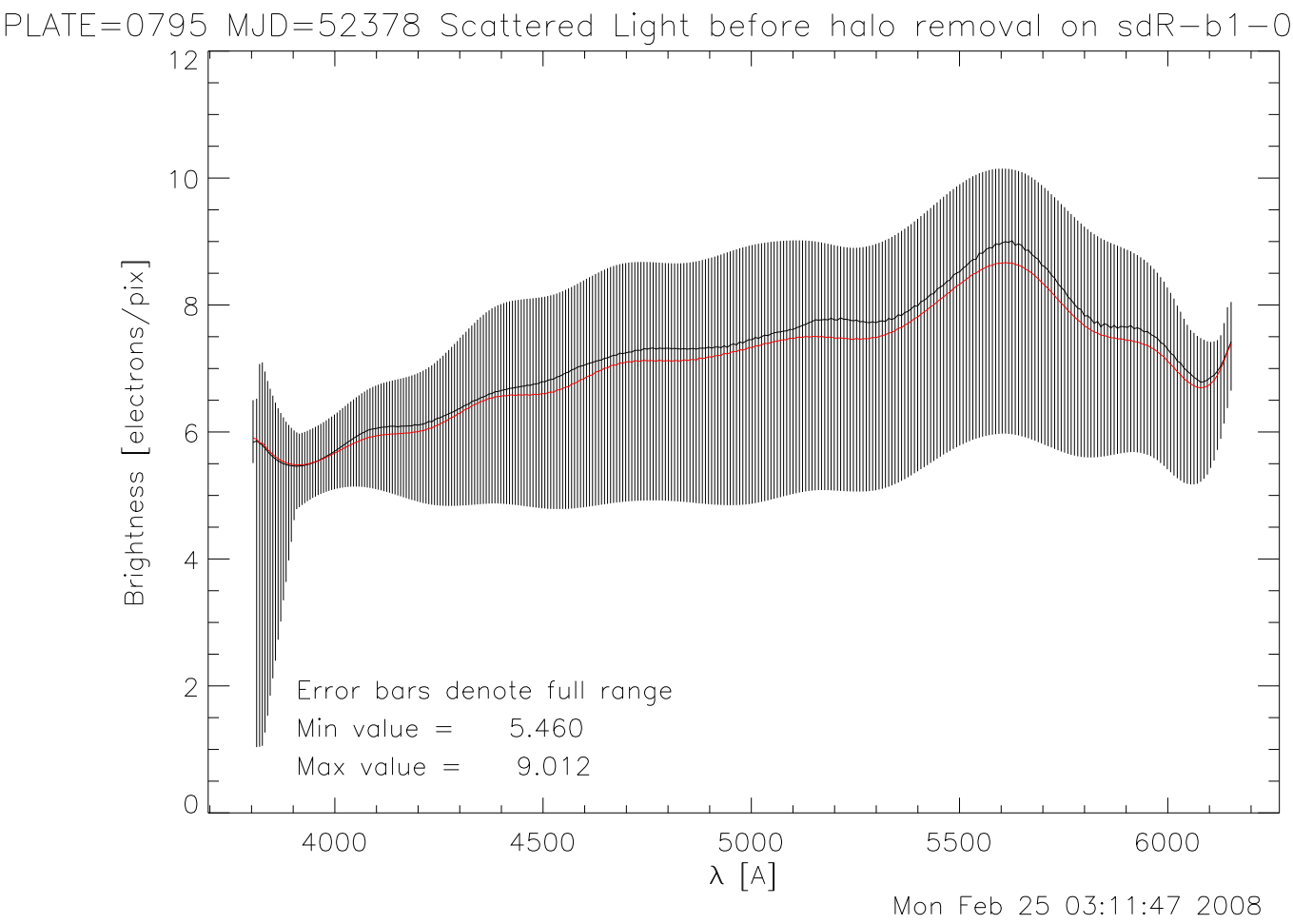

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014565.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

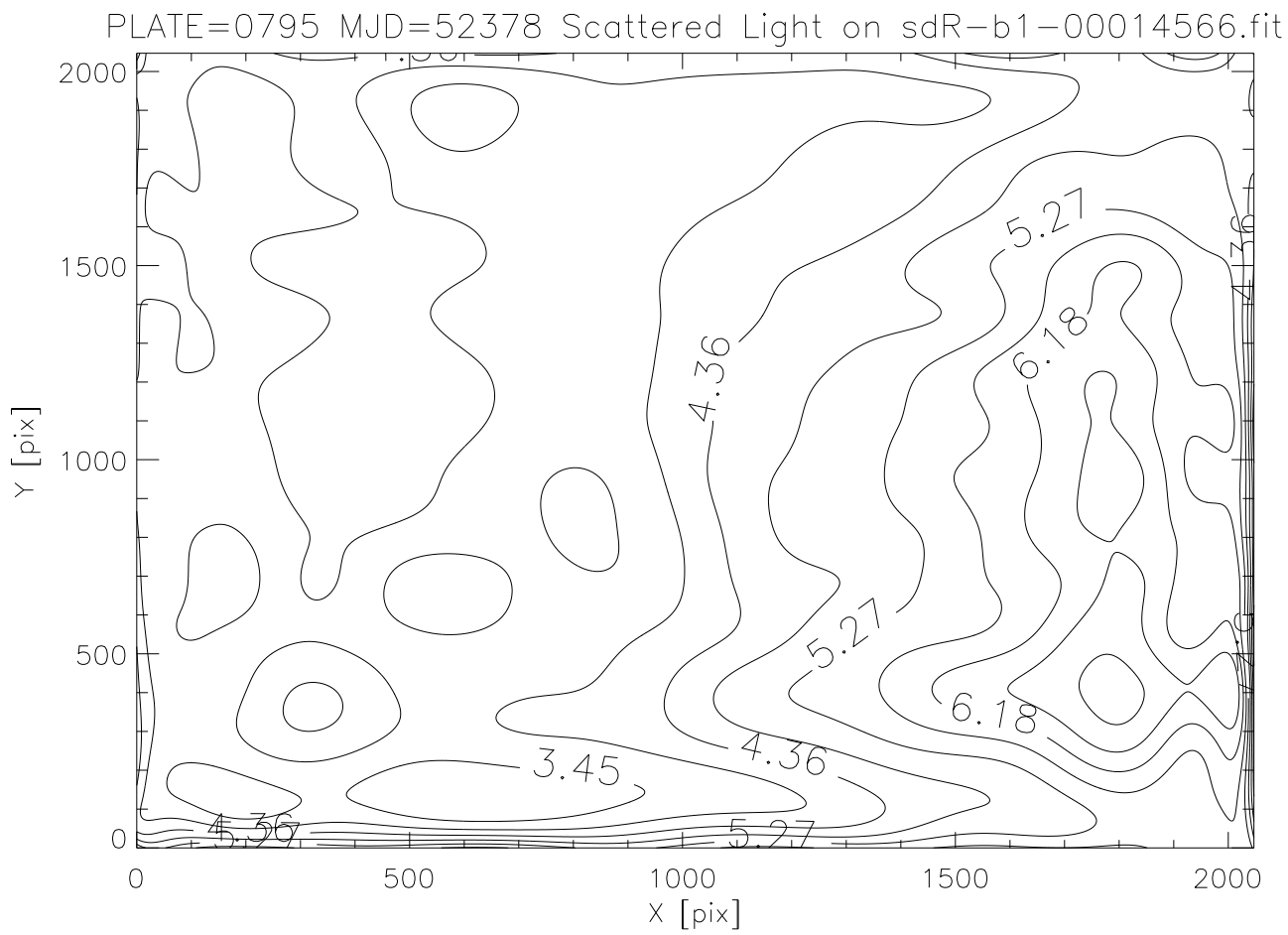

PLATE=0795 MJD=52378 sdR-b1-00014565.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.79 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

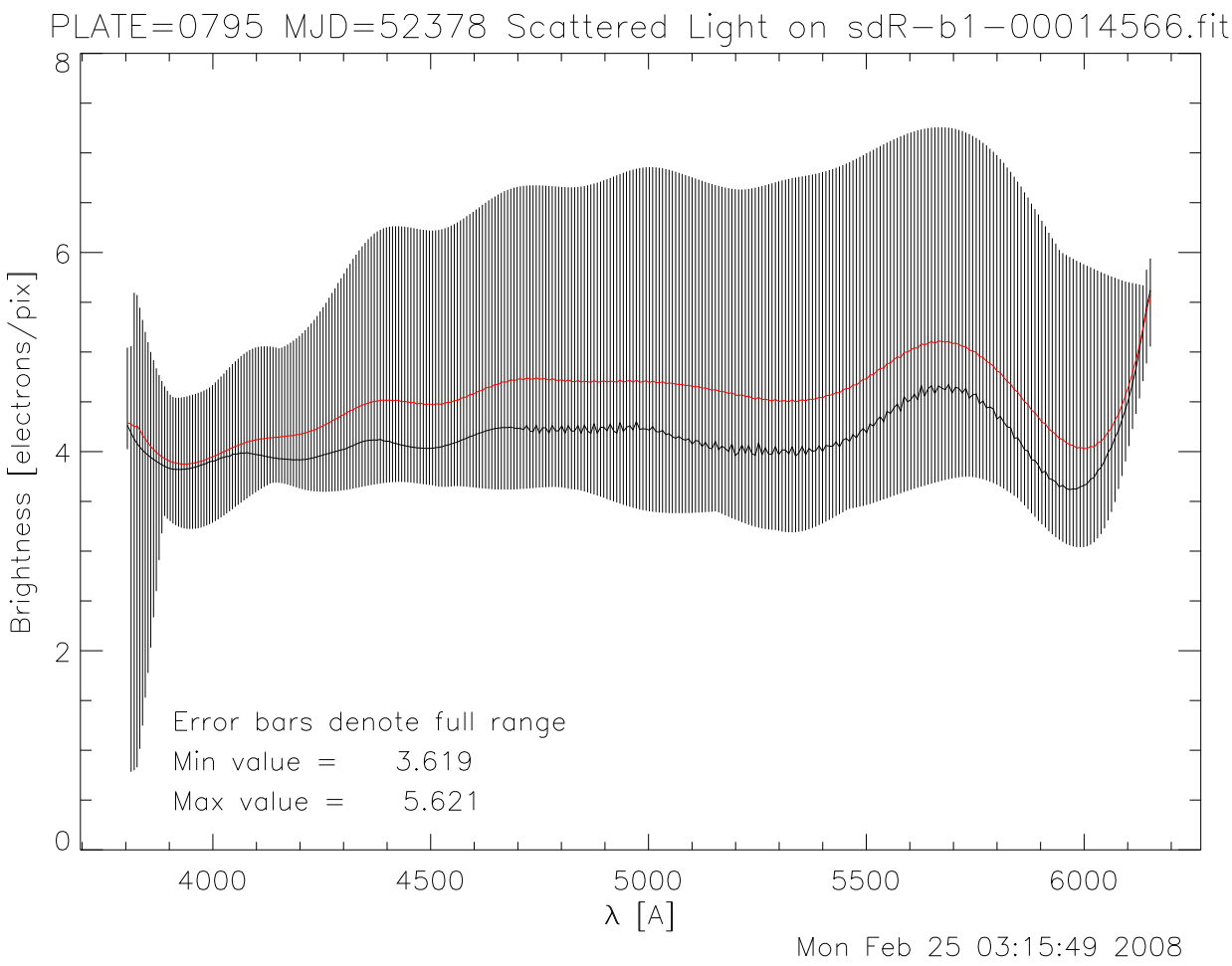

PLATE=0795 MJD=52378 sdR-b1-00014565.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.47 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

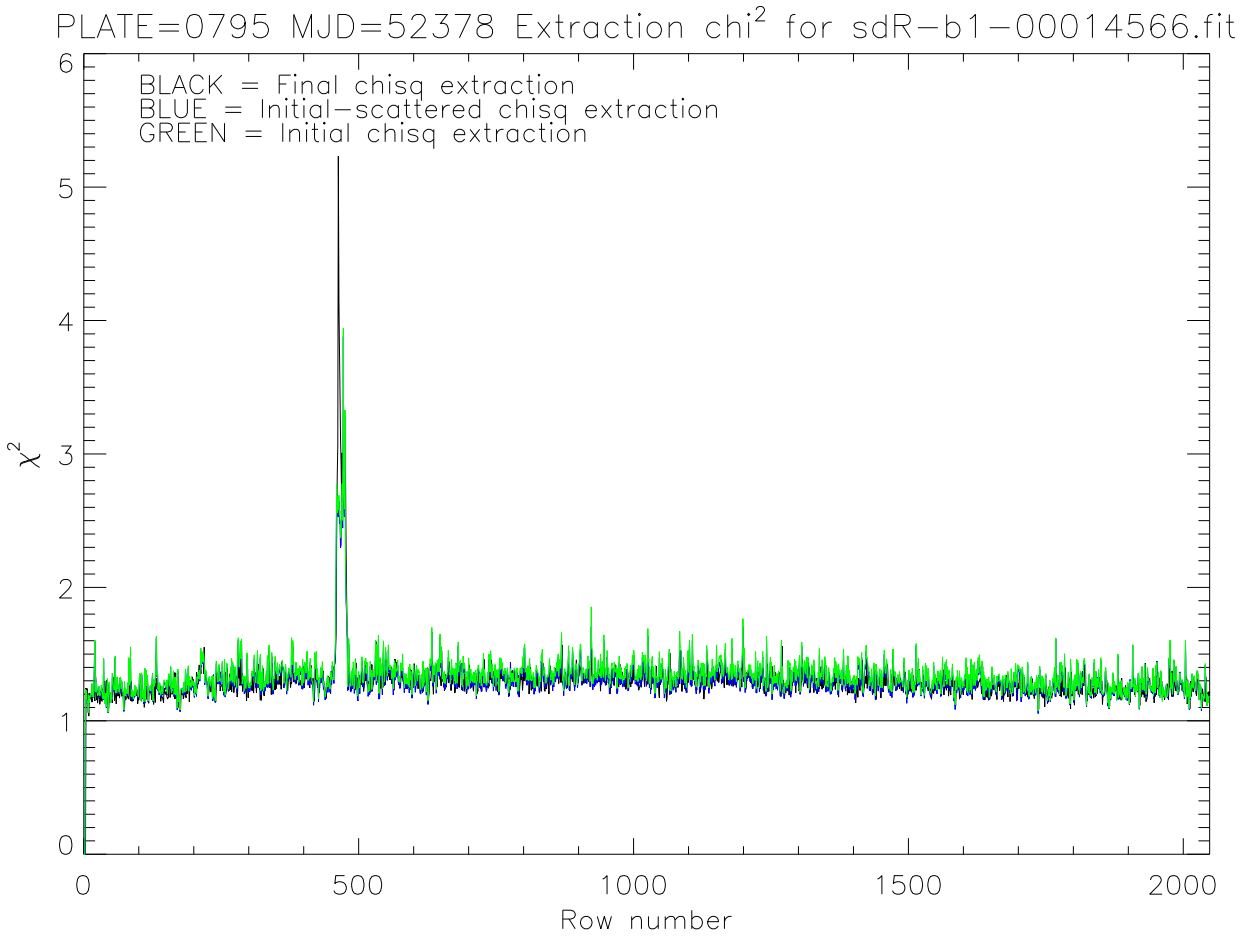

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.454
Max value = 1.234
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:10:40 2008

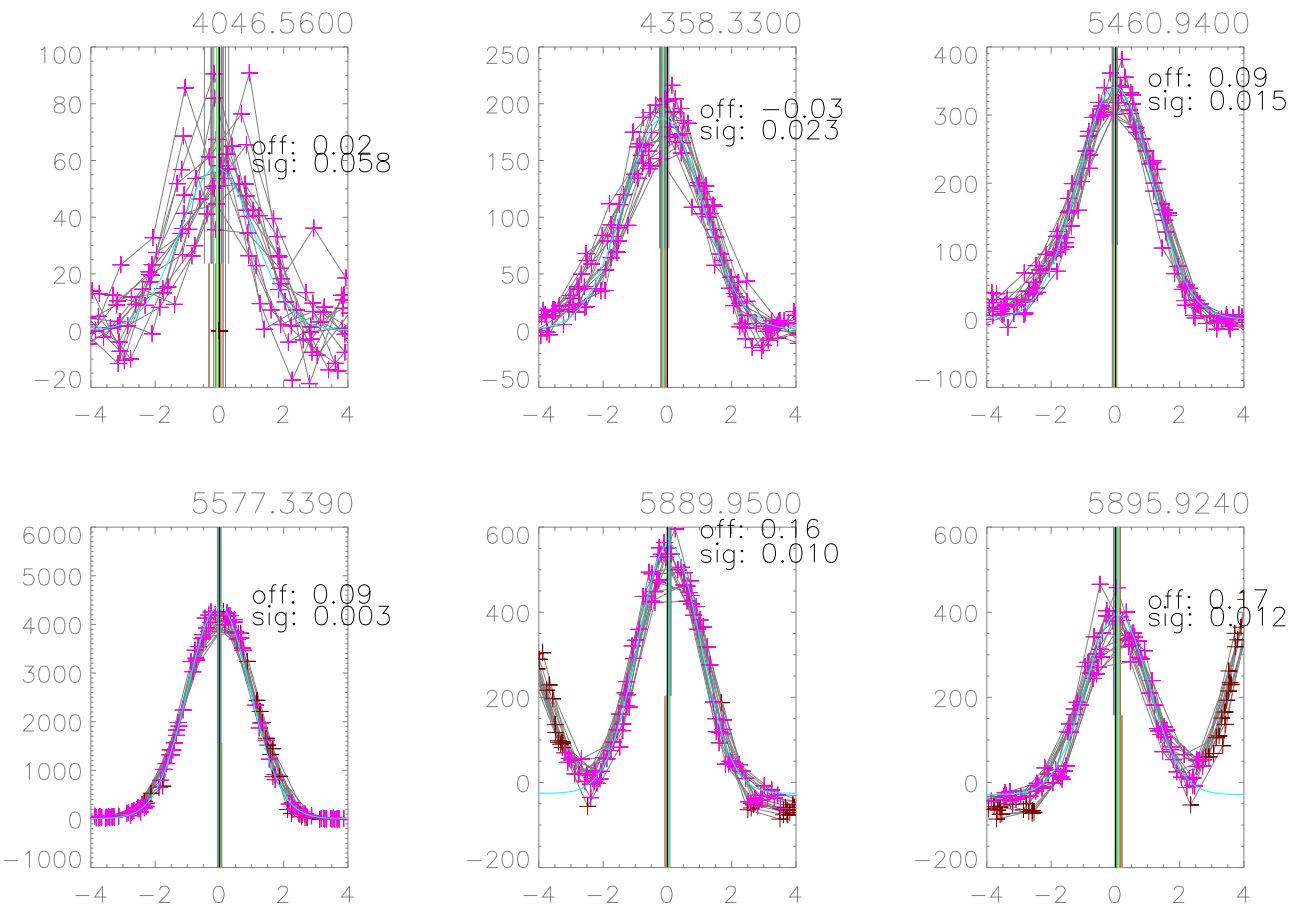

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b1-00014566.f
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
8.4

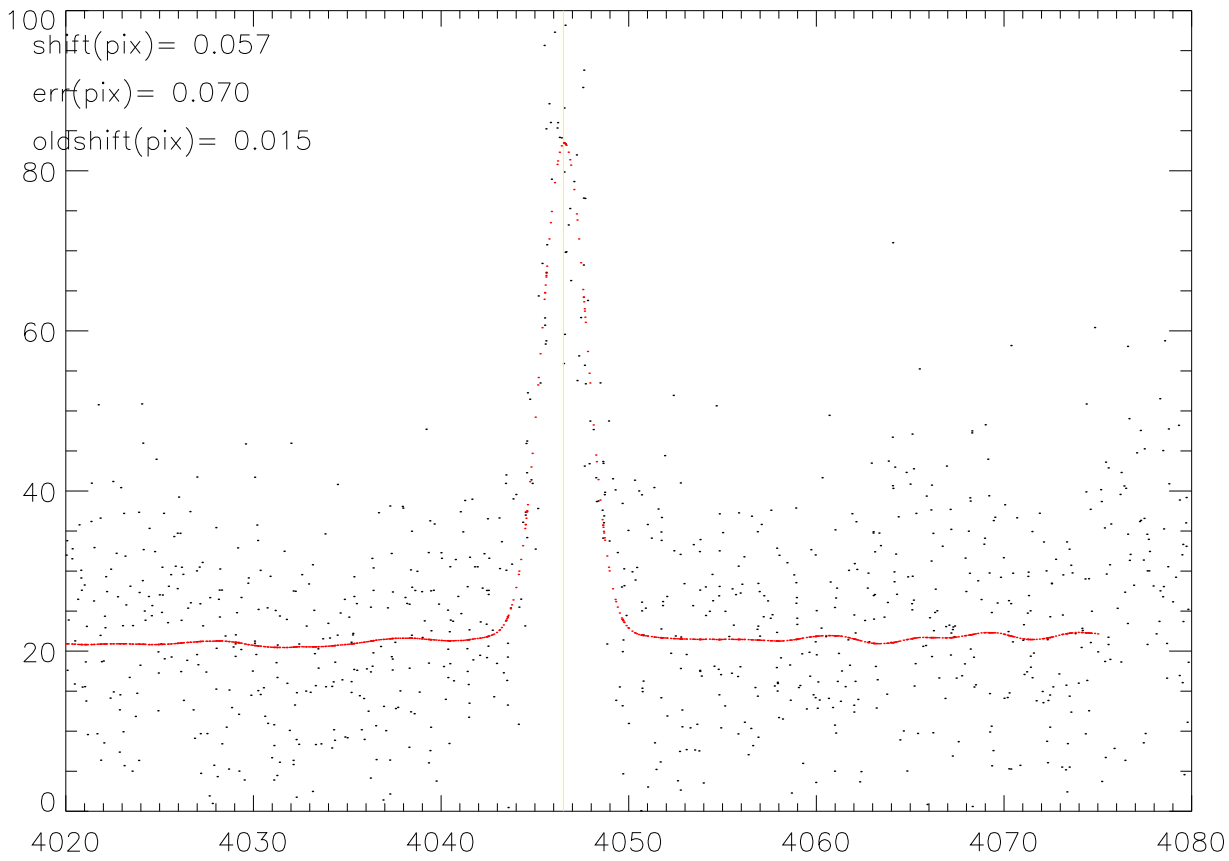

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b1-00014566.f
Brightness [electrons/pix]
12
10
8
6
4
2
0
Error bars denote full range
Min value = 5.460
Max value = 9.012
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:11:47 2008

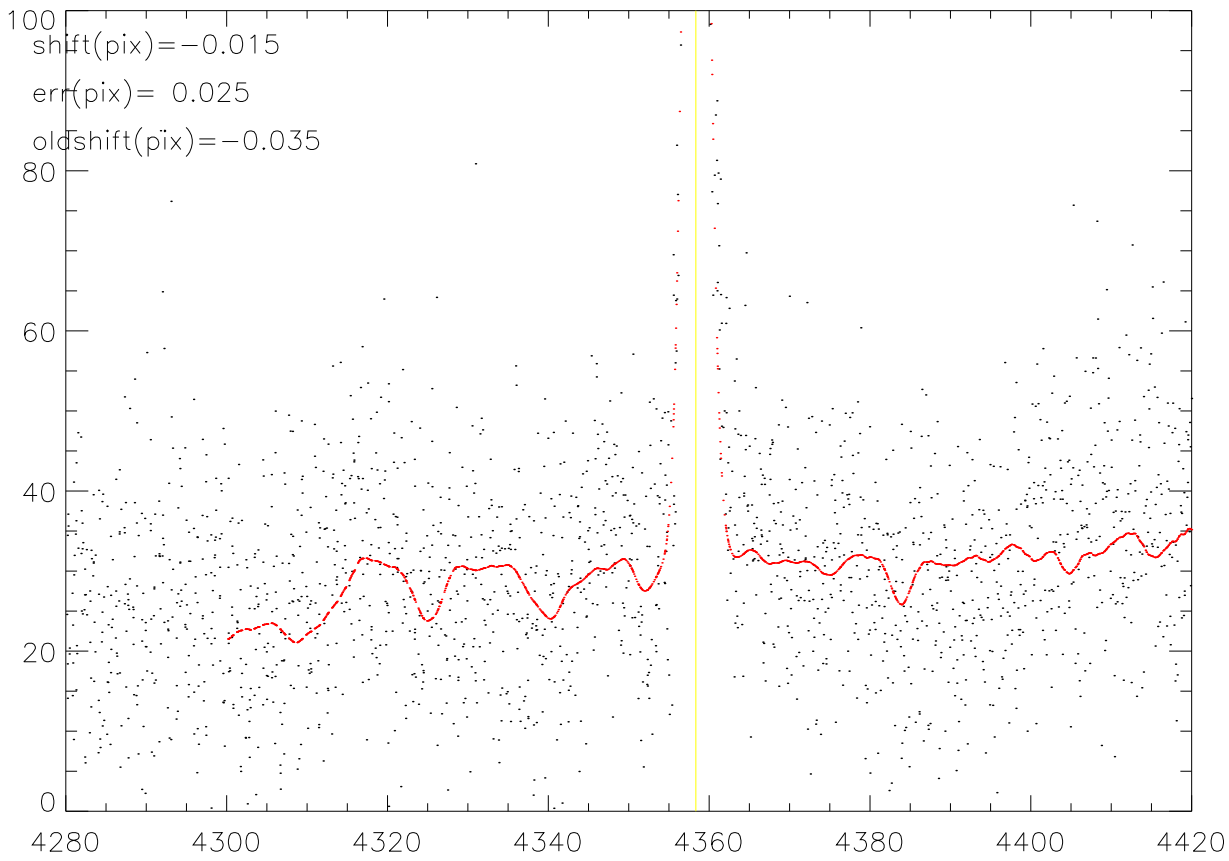

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014566.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
4.36
5.27
6.18
3.45
4.36
5.27
6.18
4.36
5.27

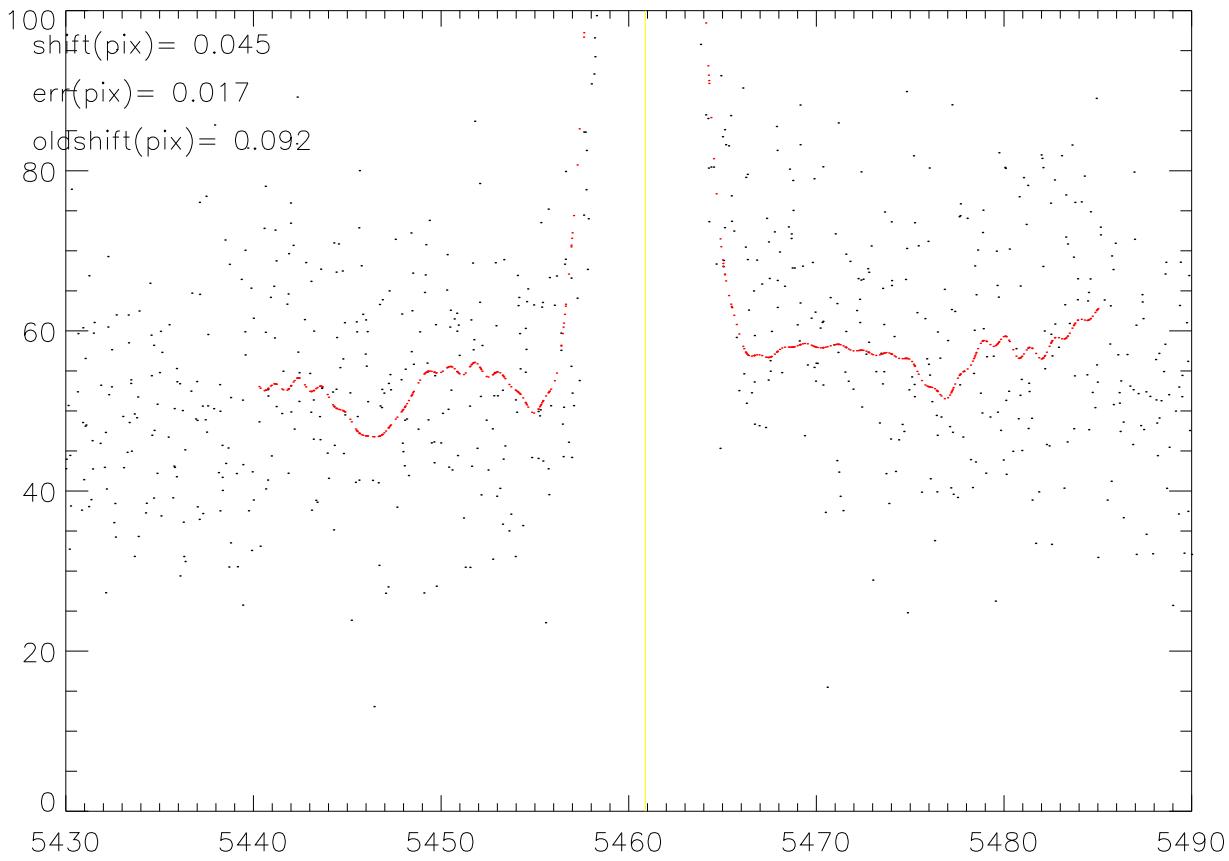

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014566.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.619
Max value = 5.621
Mon Feb 25 03:15:49 2008

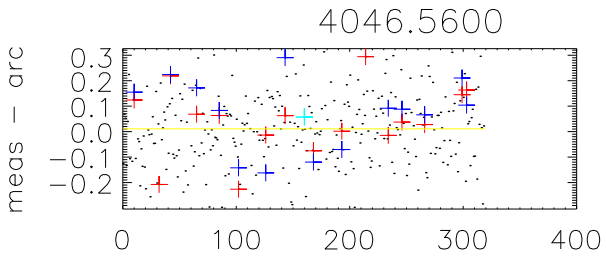

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b1-00014566.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

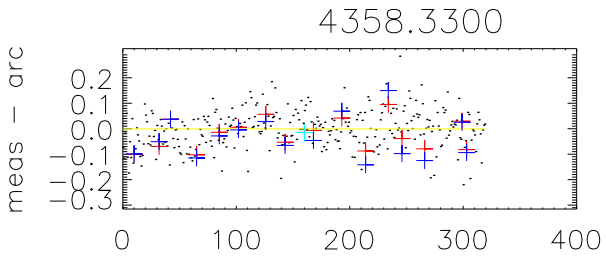

4046.5600
off: 0.02
sig: 0.058
4358.3300
off: −0.03
sig: 0.023
5460.9400
off: 0.09
sig: 0.015
5577.3390
off: 0.09
sig: 0.003
5889.9500
off: 0.16
sig: 0.010
5895.9240
off: 0.17
sig: 0.012

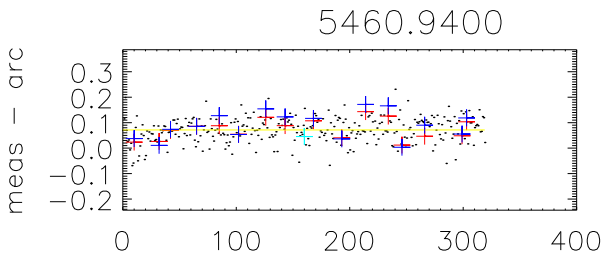

shift(pix)= 0.057
err(pix)= 0.070
oldshift(pix)= 0.015
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

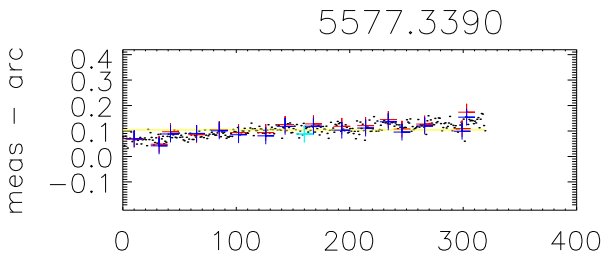

shift(pix)=−0.015
err(pix)= 0.025
oldshift(pix)=−0.035
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

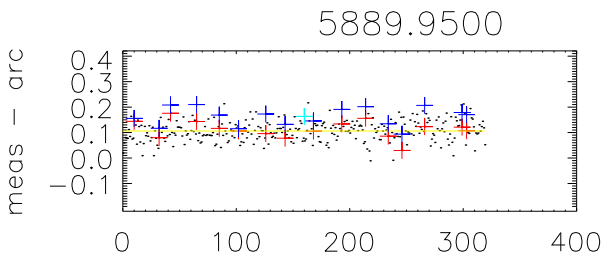

shift(pix)= 0.045
err(pix)= 0.017
oldshift(pix)= 0.092
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

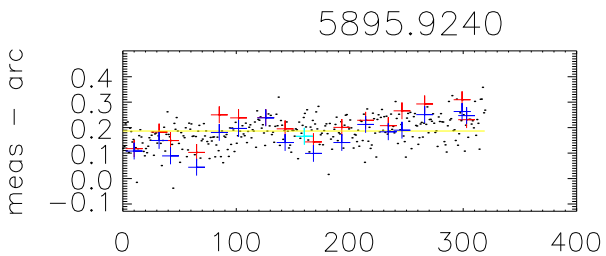

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

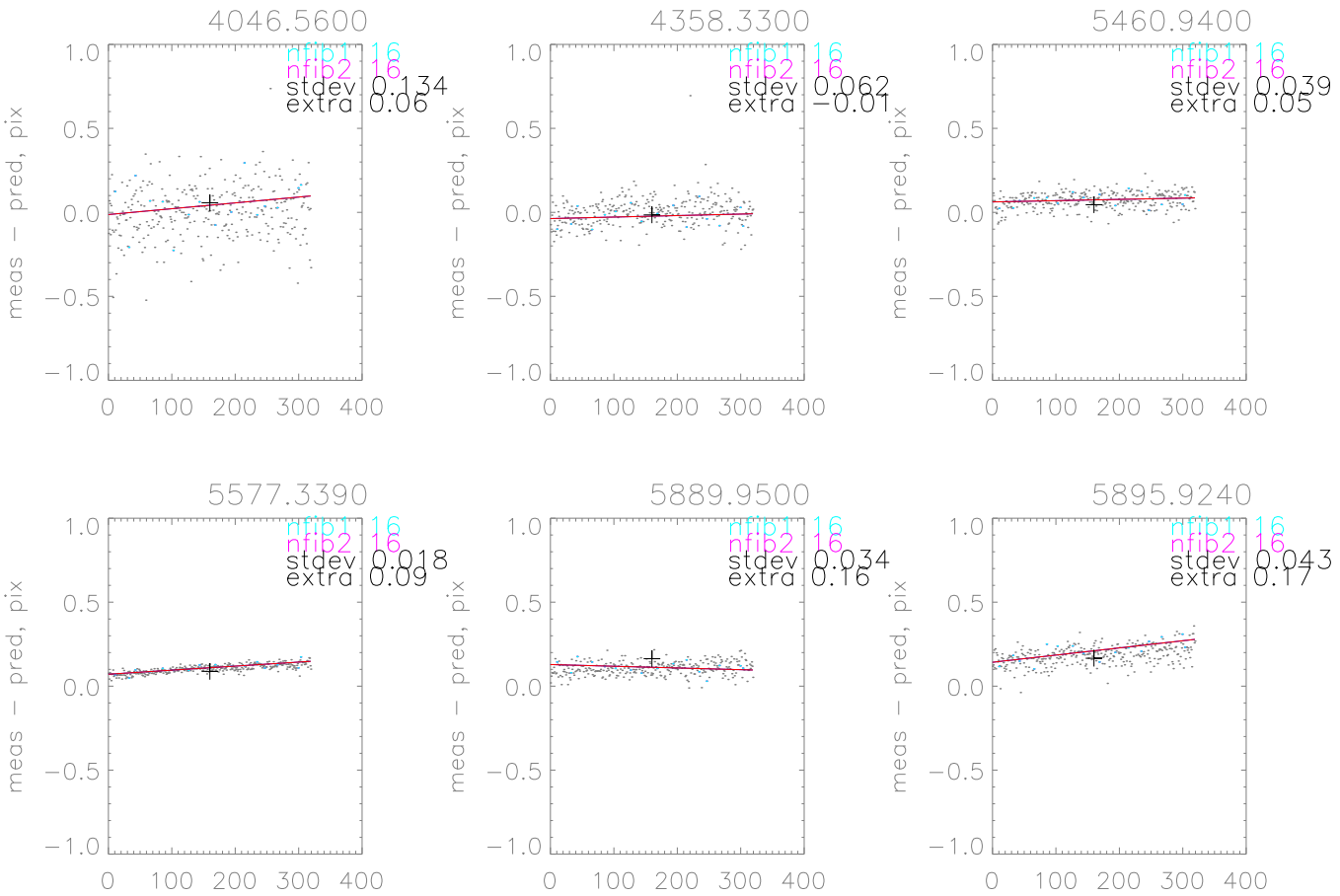

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

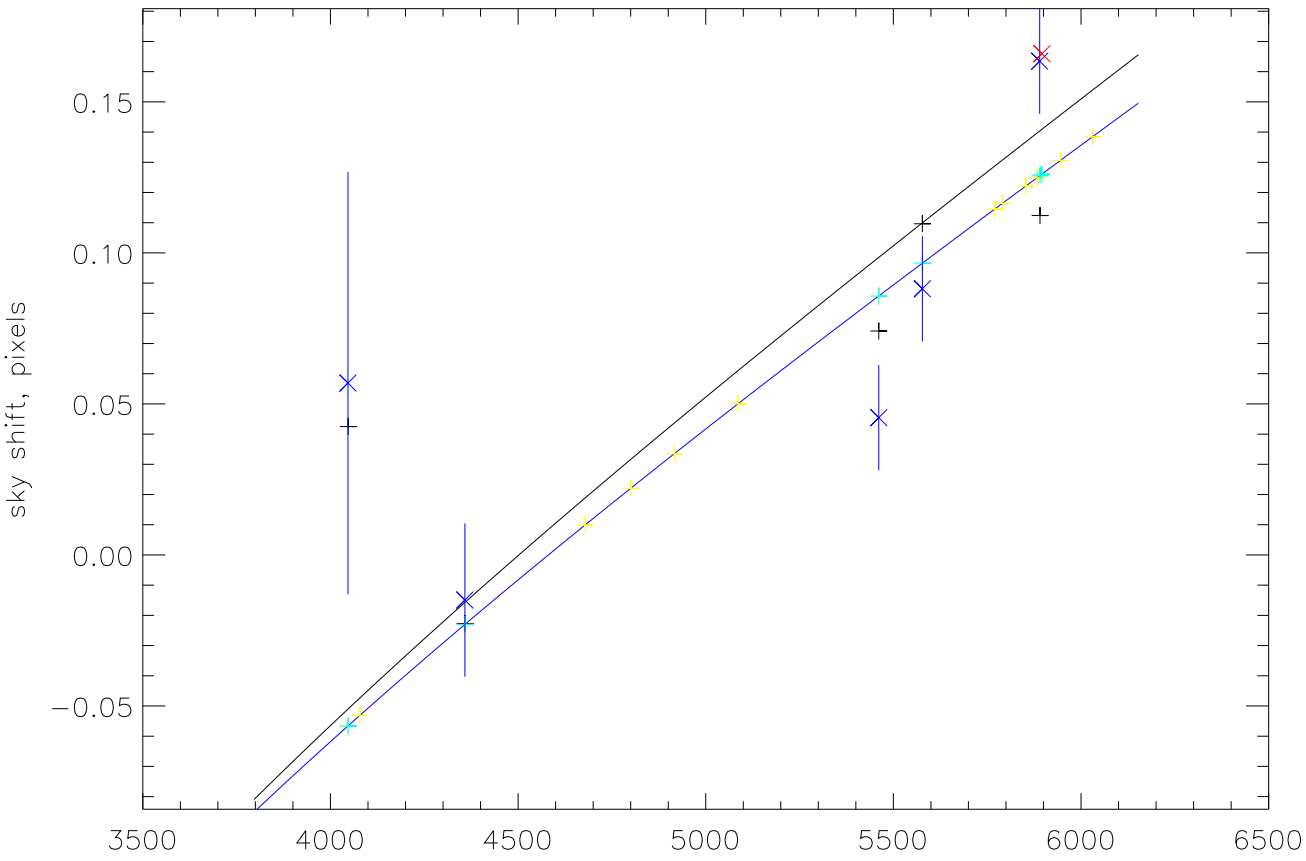

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

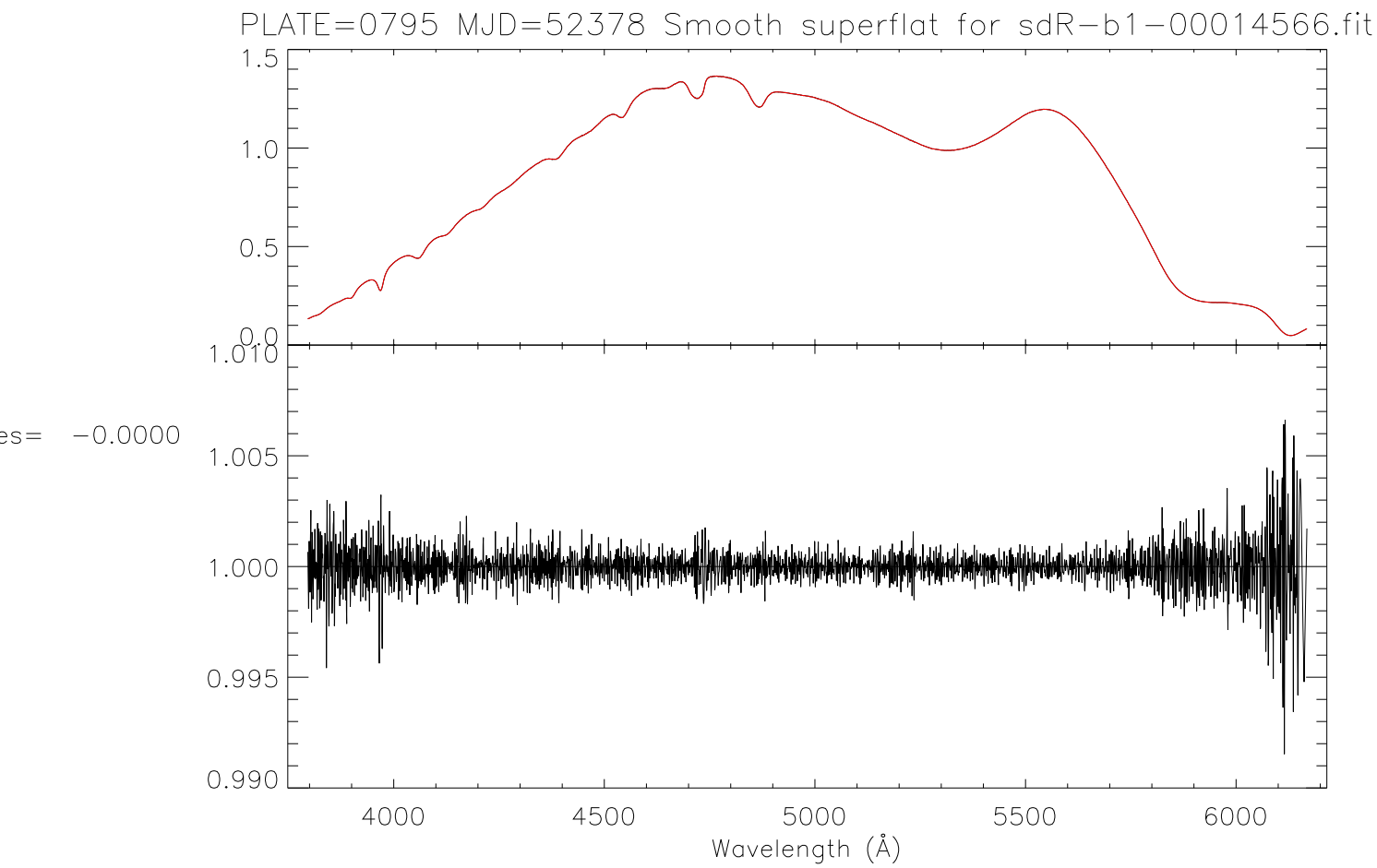

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

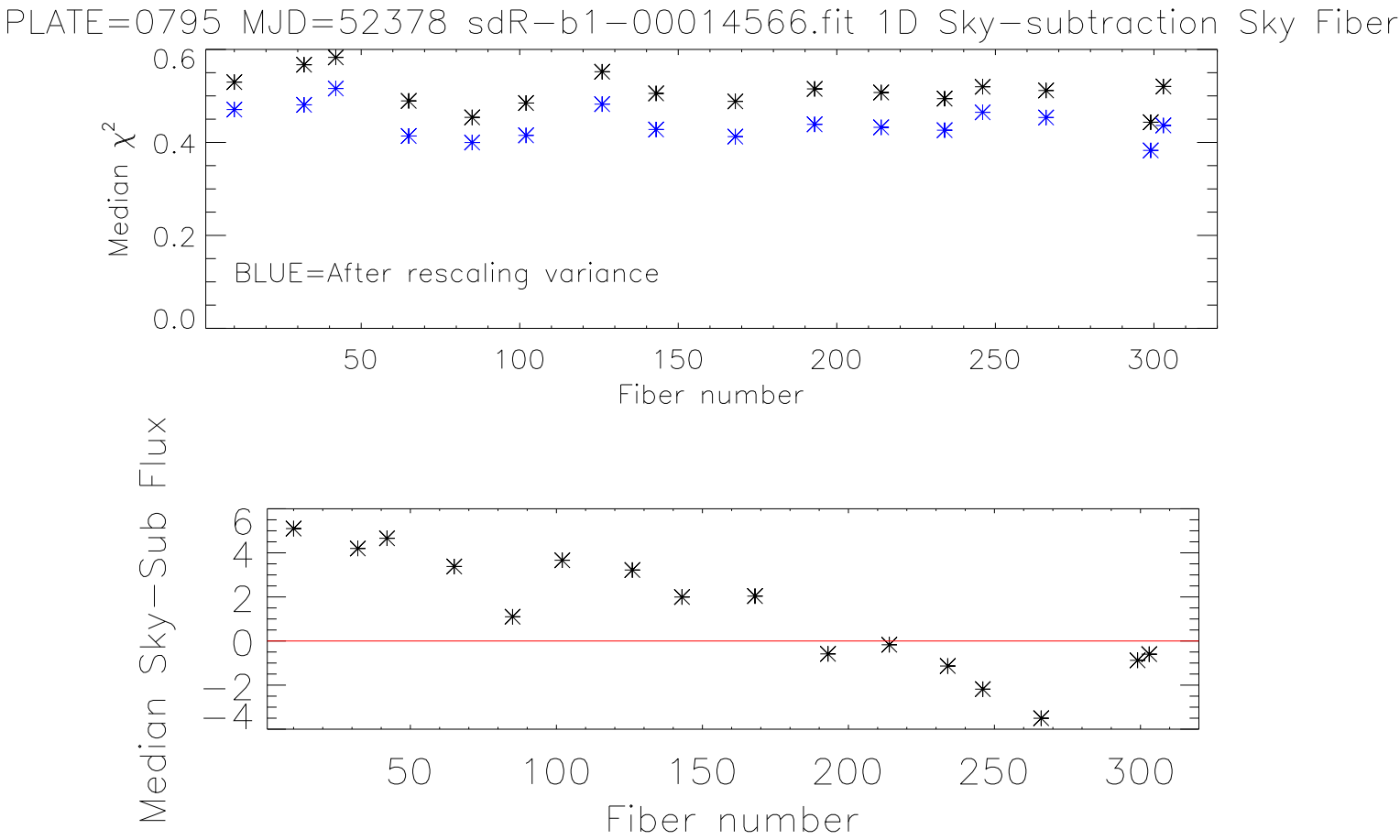

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

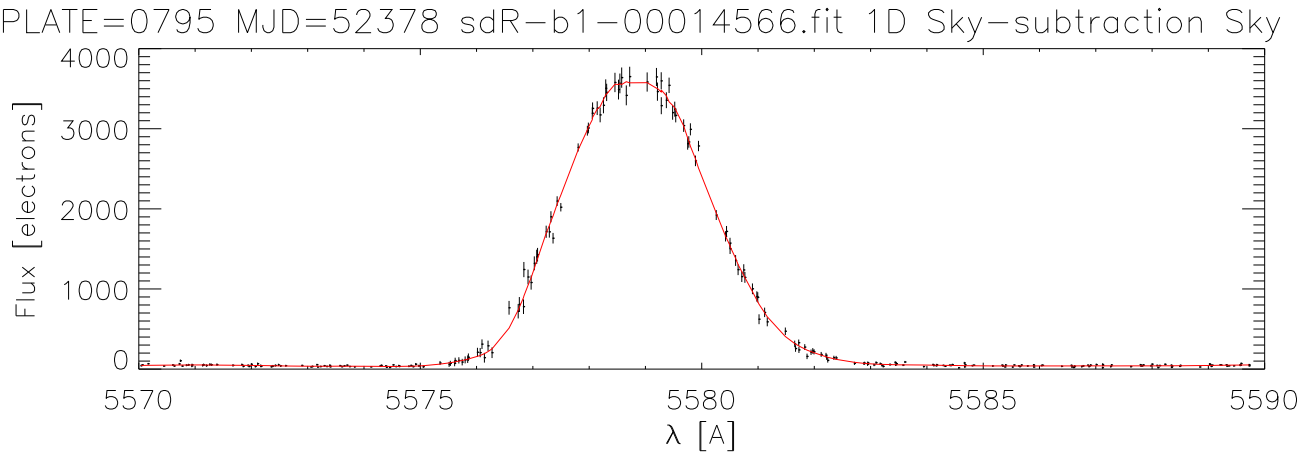

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

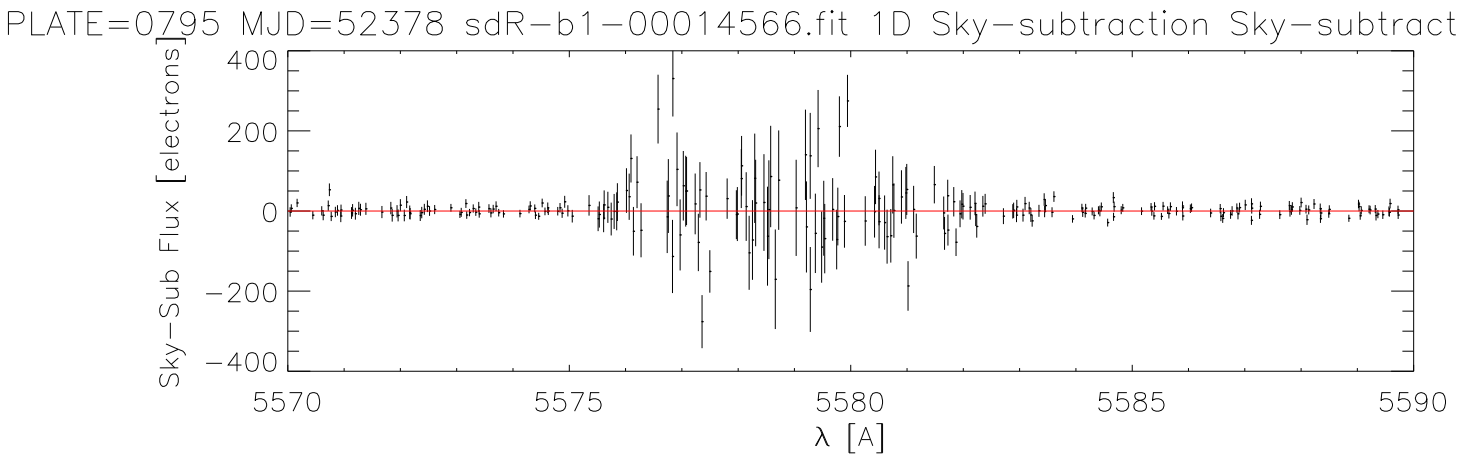

4046.5600
nfib1 16
nfib2 16
stdev 0.134
extra 0.06
4358.3300
nfib1 16
nfib2 16
stdev 0.062
extra −0.01
5460.9400
nfib1 16
nfib2 16
stdev 0.039
extra 0.05
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra 0.09
5889.9500
nfib1 16
nfib2 16
stdev 0.034
extra 0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.043
extra 0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

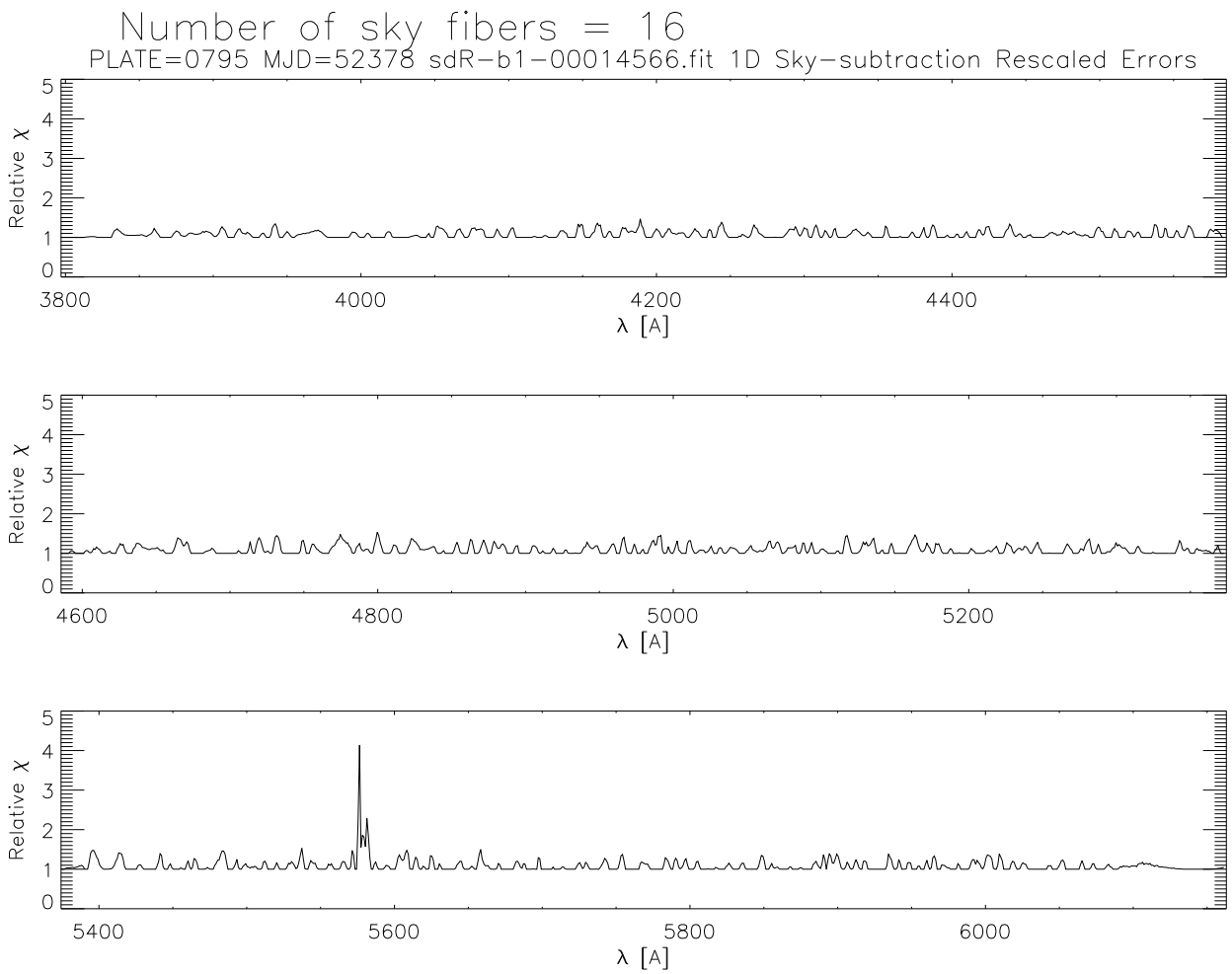

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

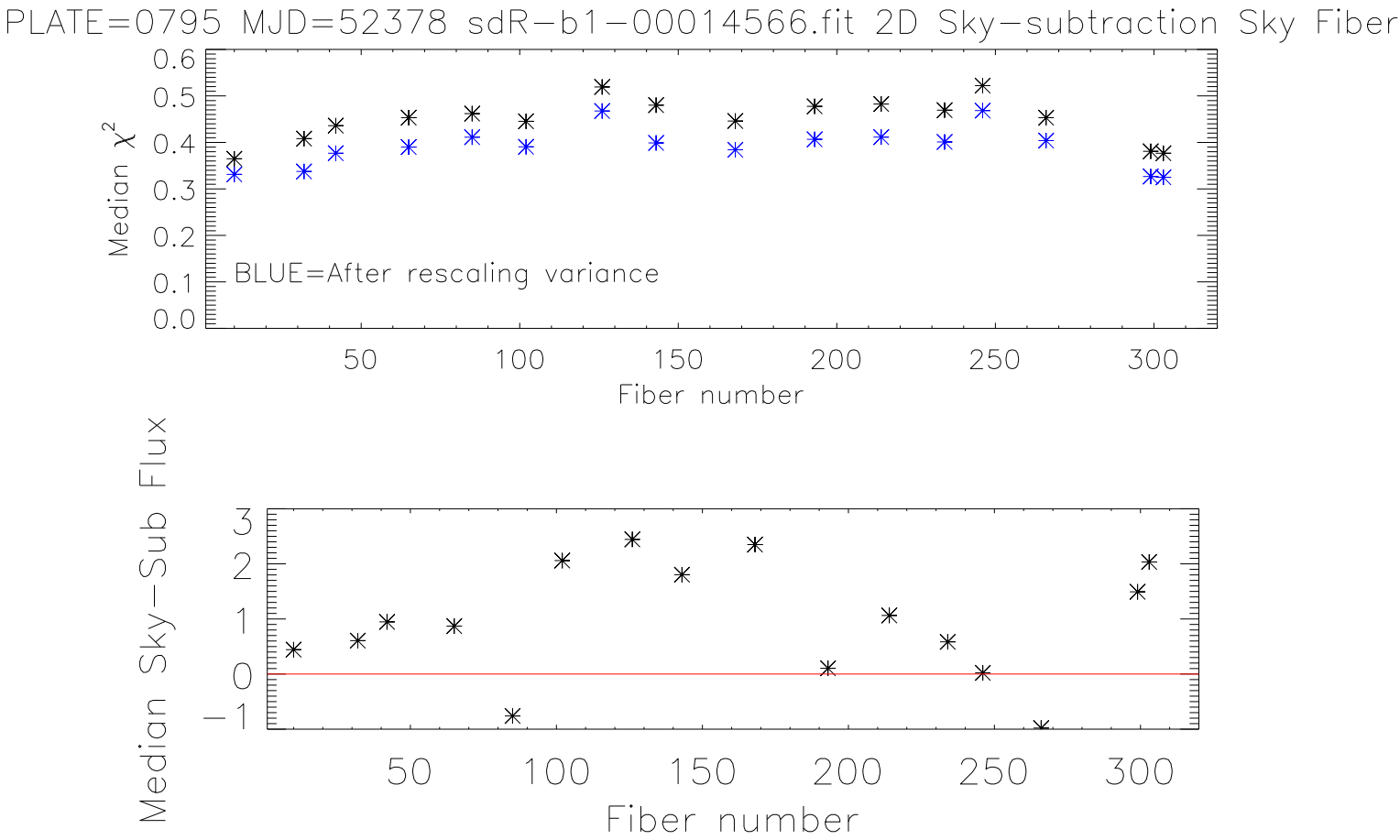

PLATE=0795 MJD=52378 Smooth superflat for sdR-b1-00014566.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

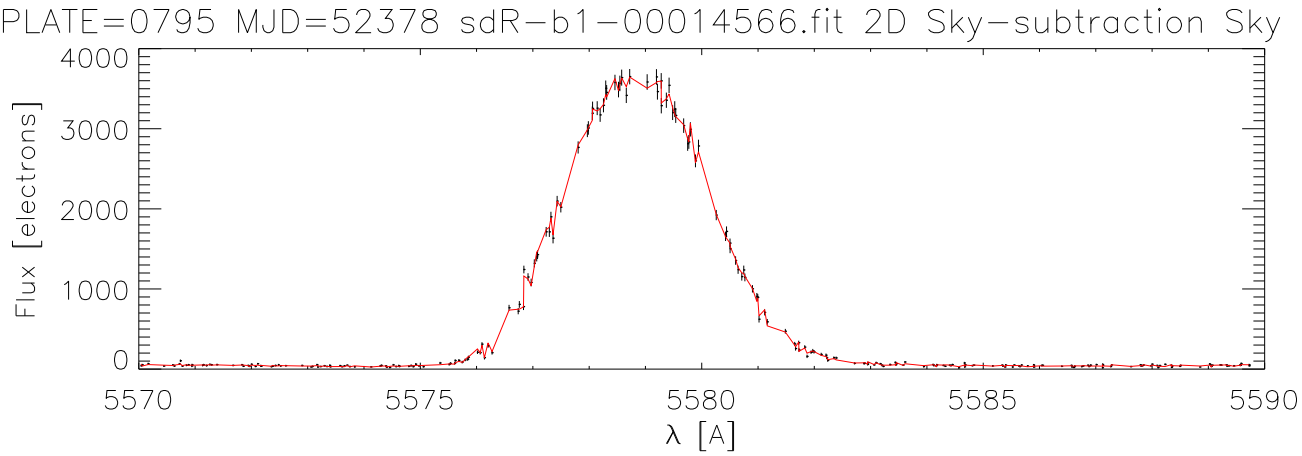

PLATE=0795 MJD=52378 sdR-b1-00014566.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

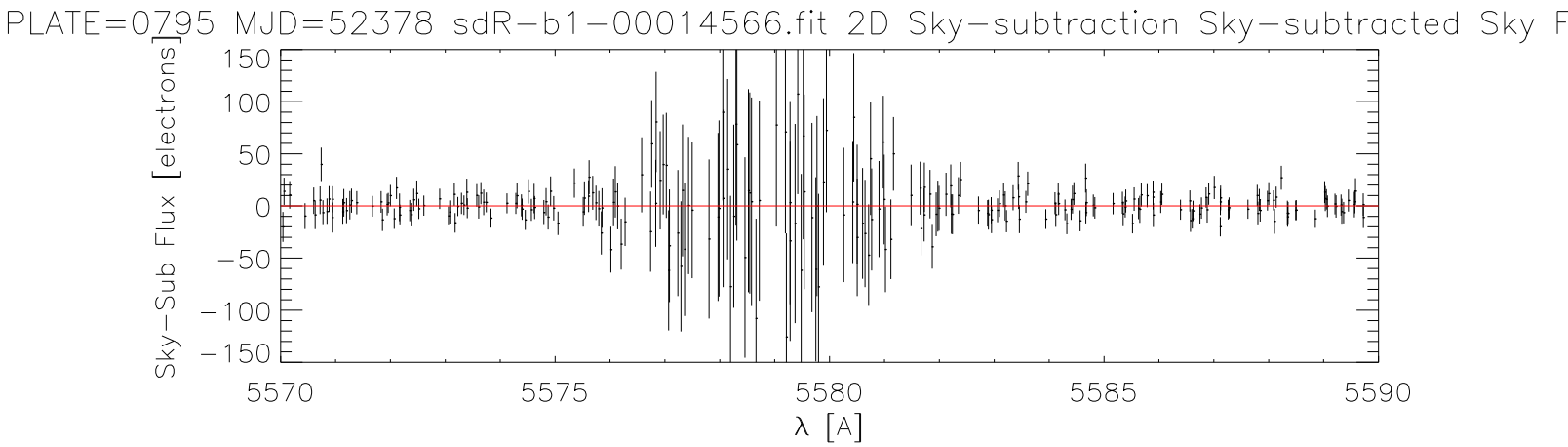

PLATE=0795 MJD=52378 sdR-b1-00014566.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

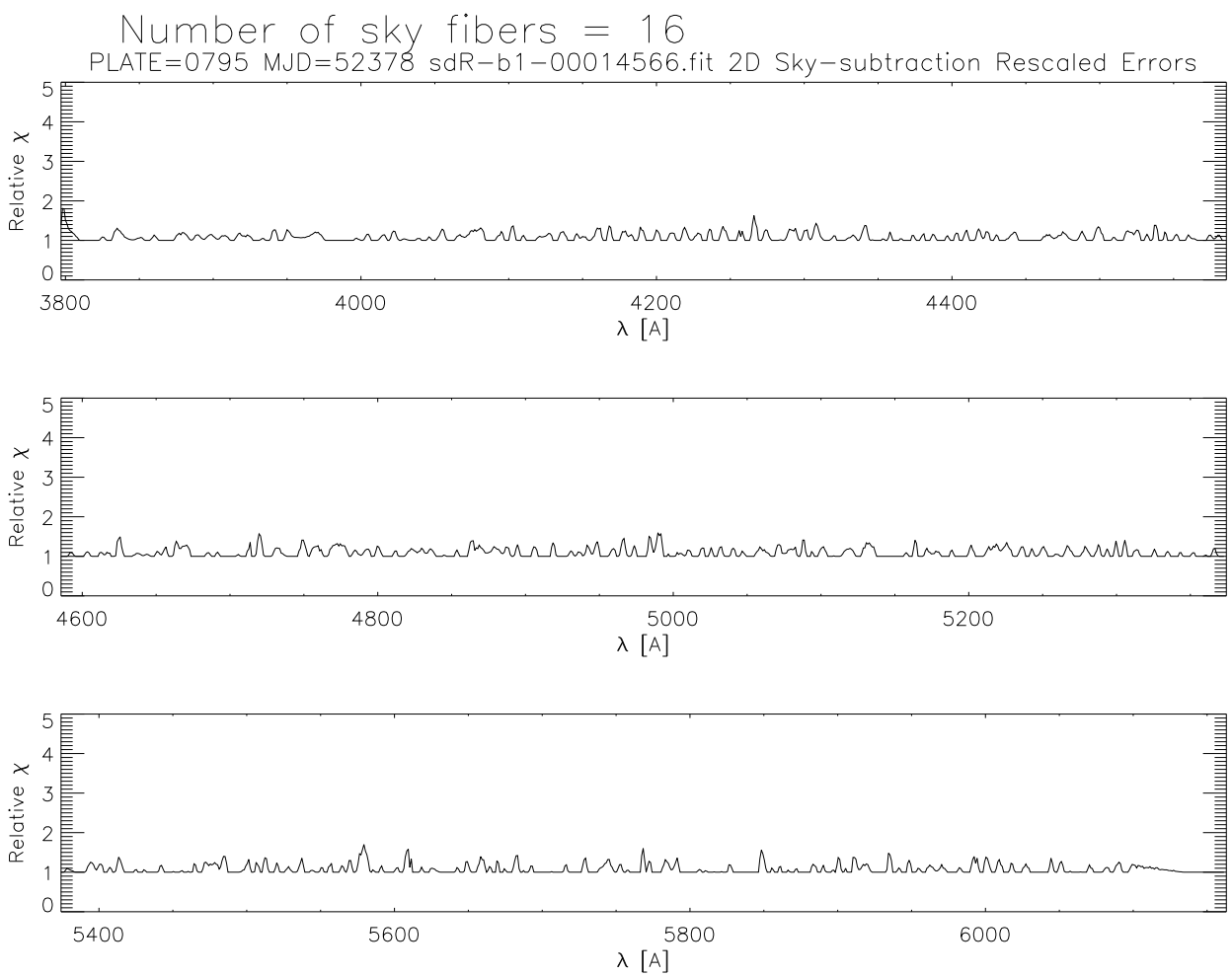

PLATE=0795 MJD=52378 sdR-b1-00014566.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

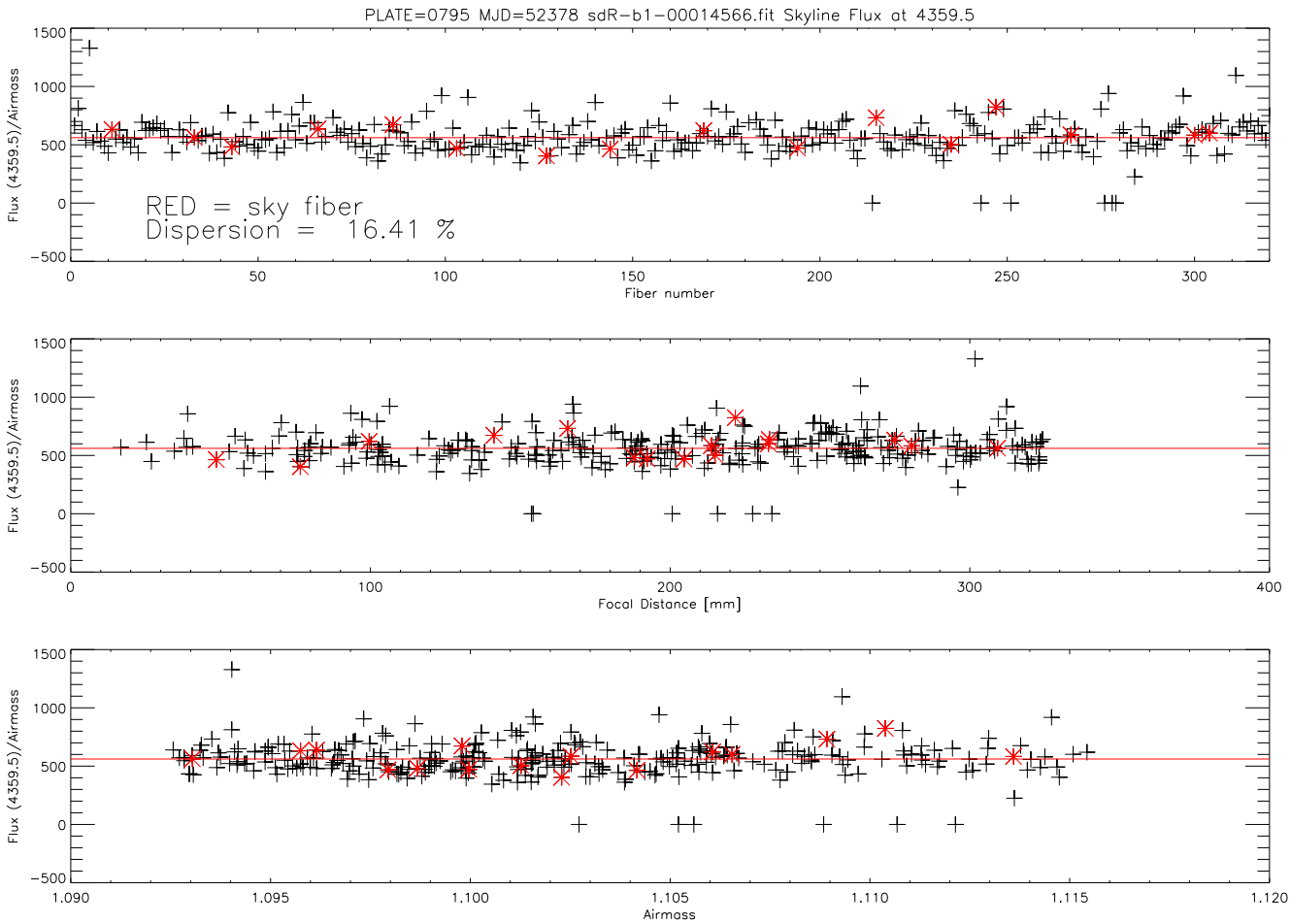

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014566.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

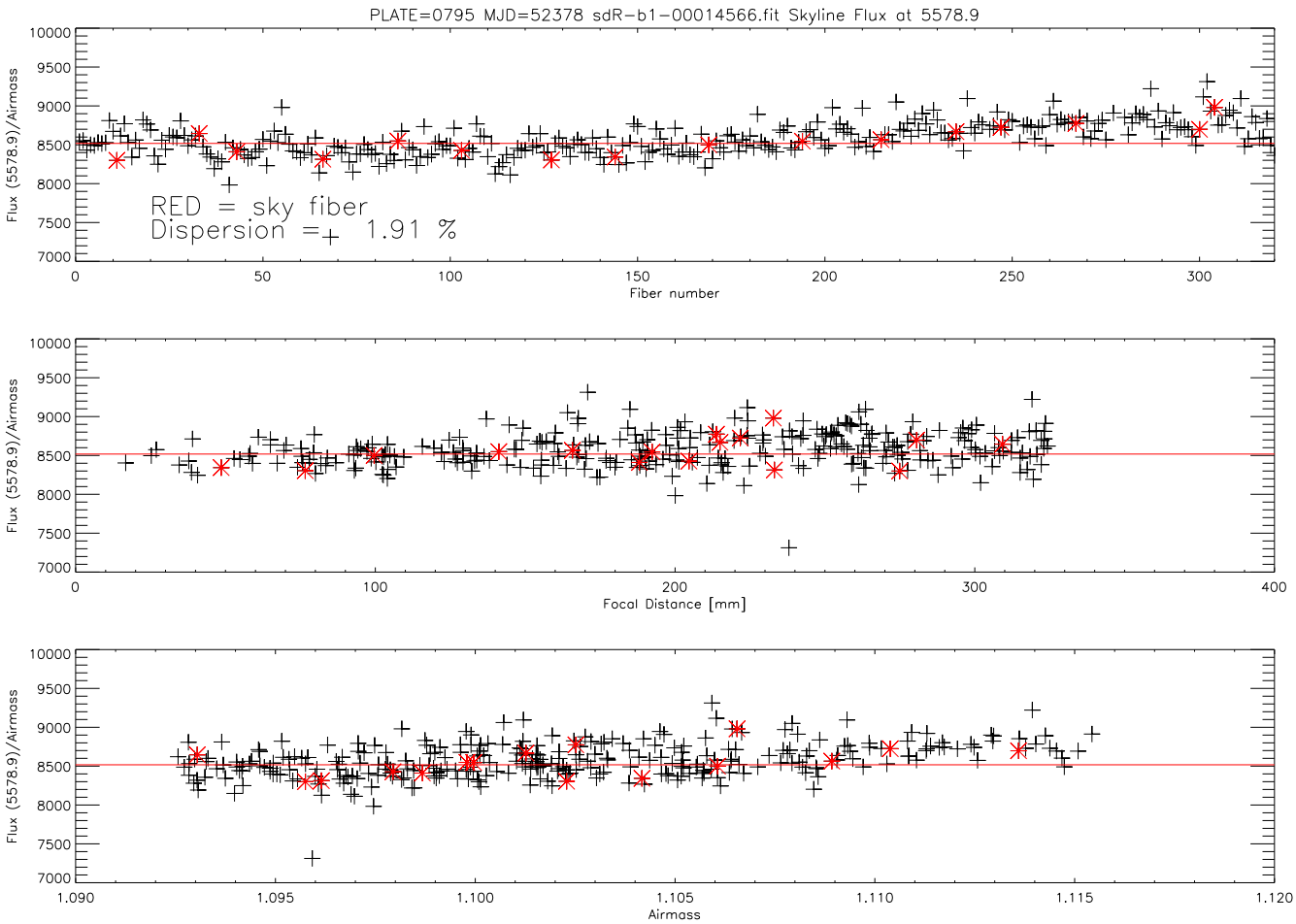

PLATE=0795 MJD=52378 sdR-b1-00014566.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

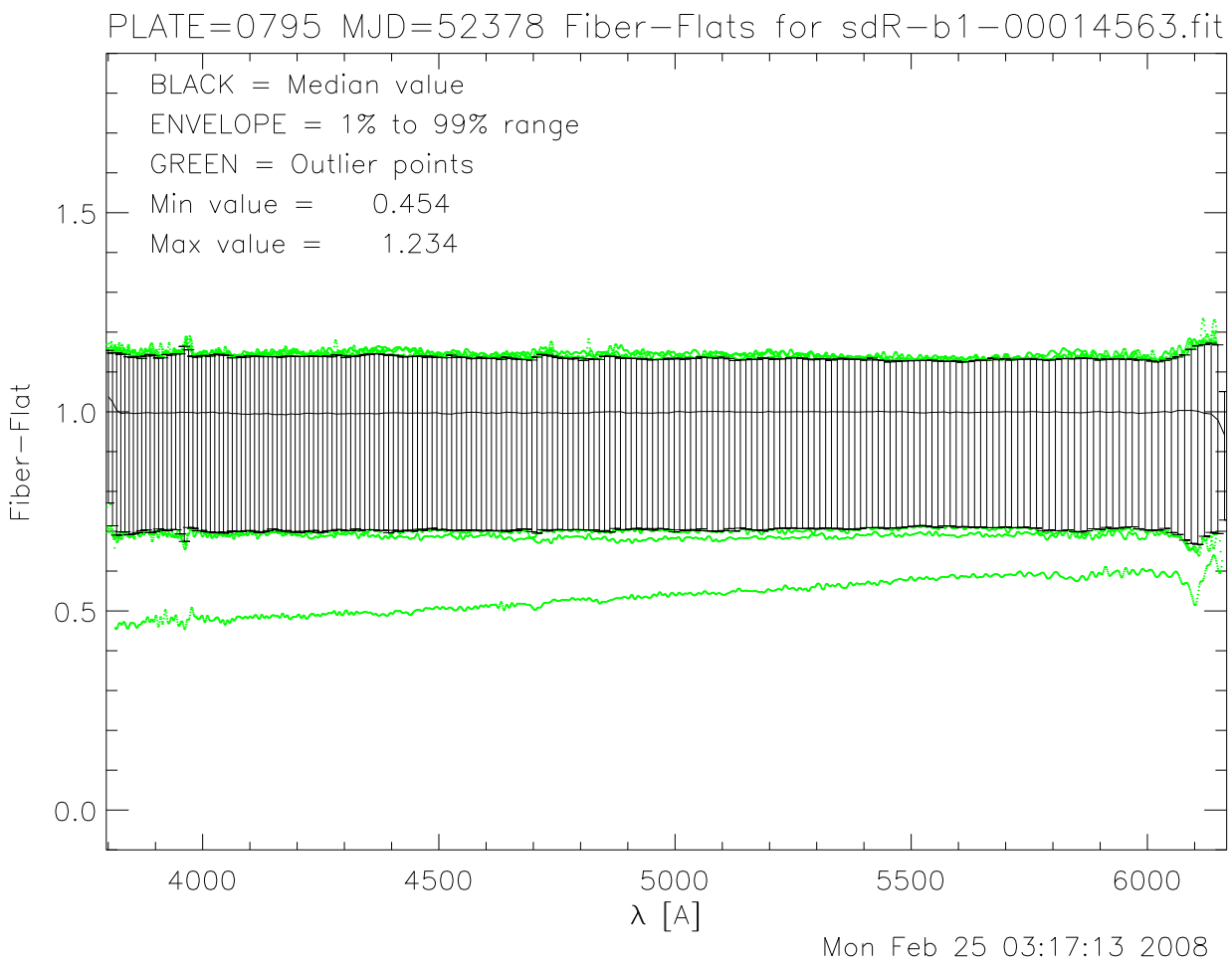

PLATE=0795 MJD=52378 sdR-b1-00014566.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

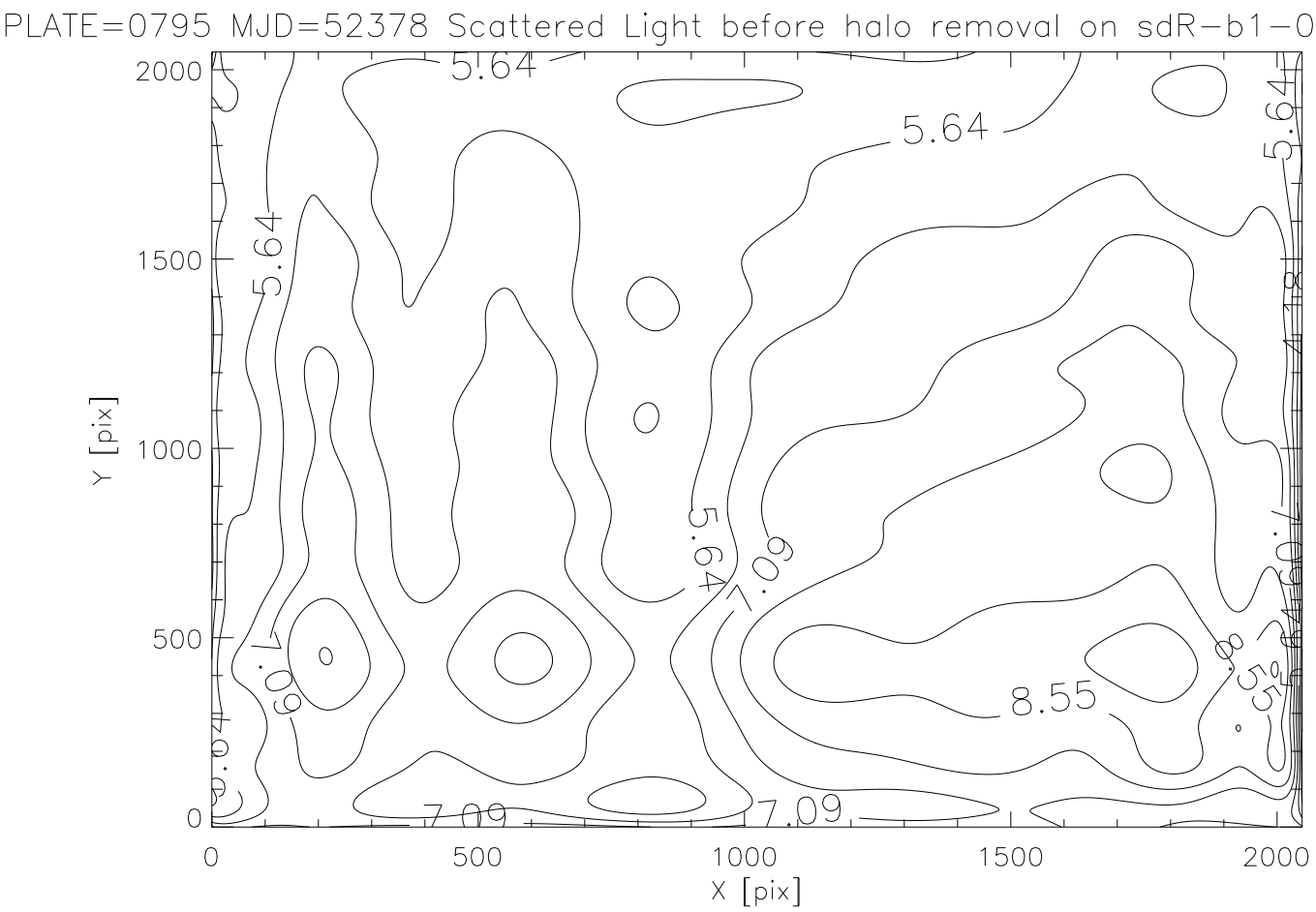

PLATE=0795 MJD=52378 sdR-b1-00014566.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

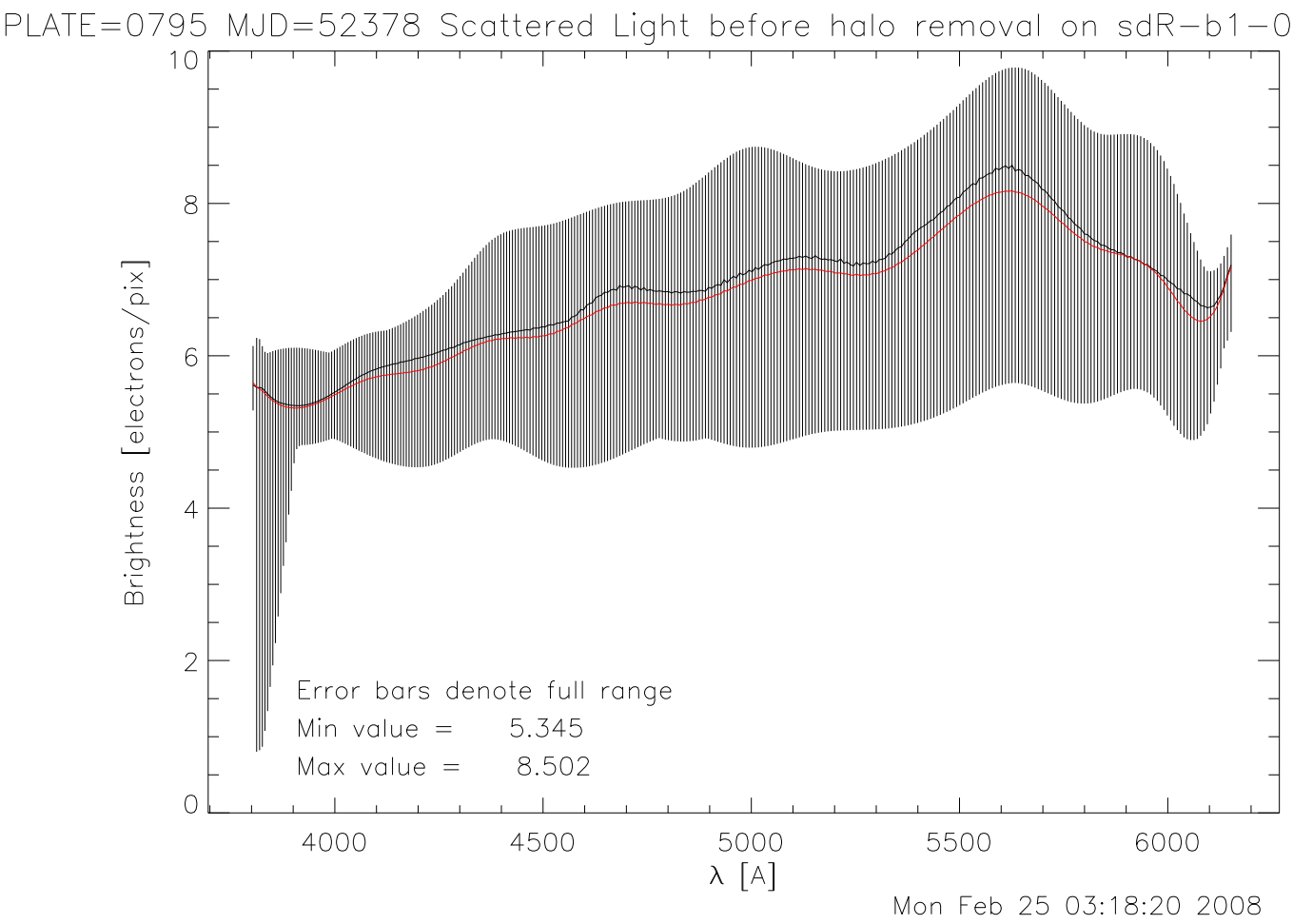

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014566.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

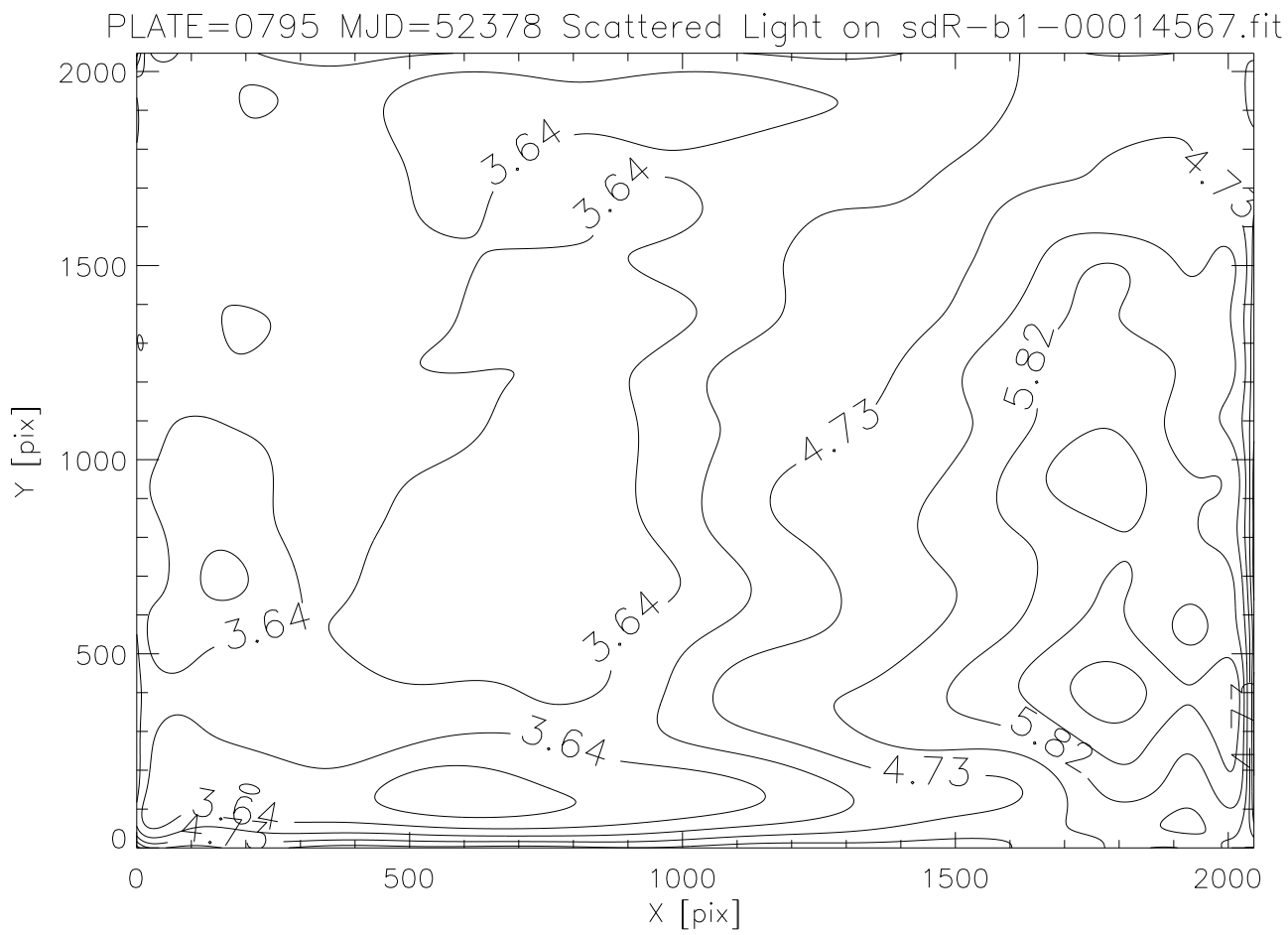

PLATE=0795 MJD=52378 sdR-b1-00014566.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.41 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

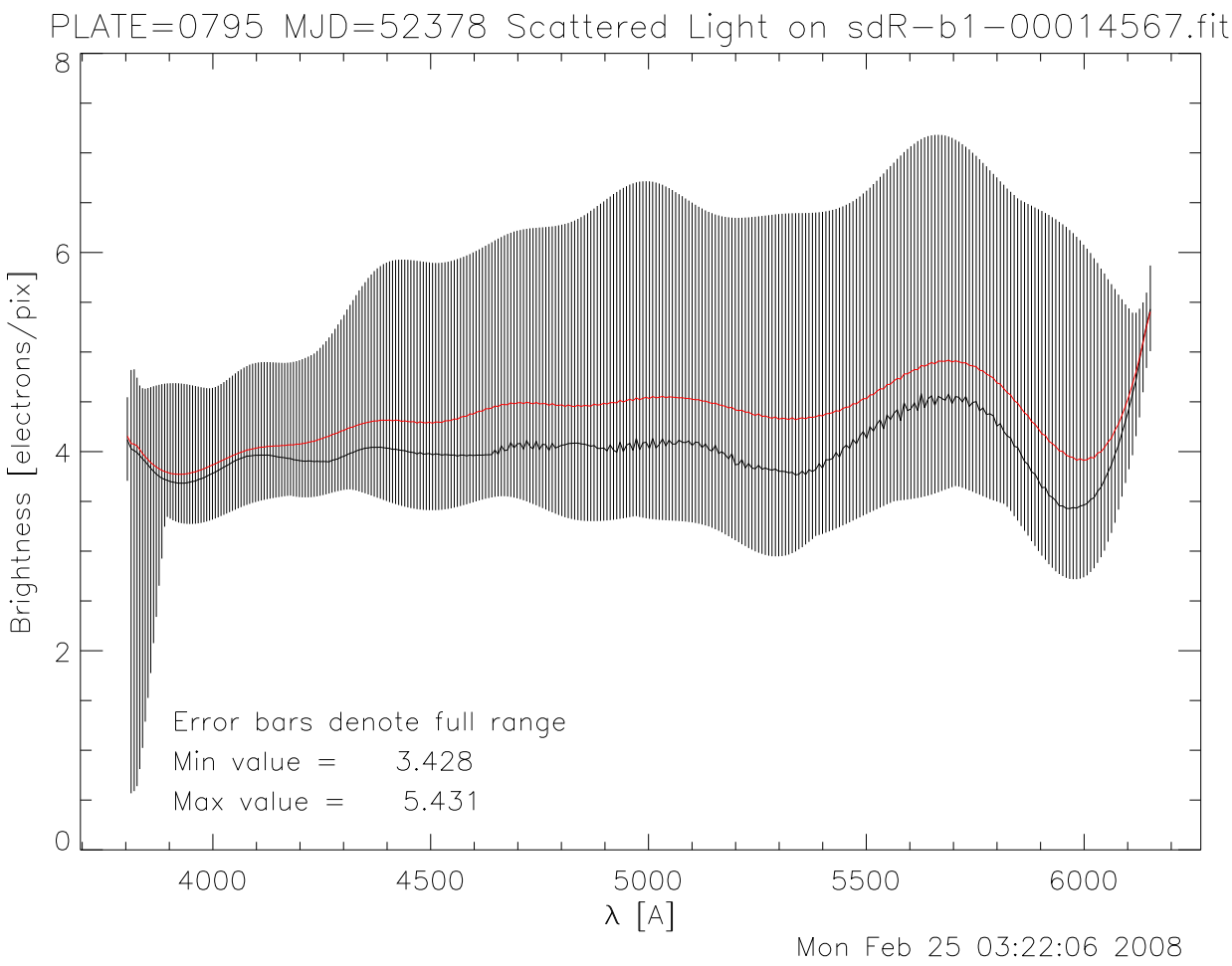

PLATE=0795 MJD=52378 sdR-b1-00014566.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion =+ 1.91 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

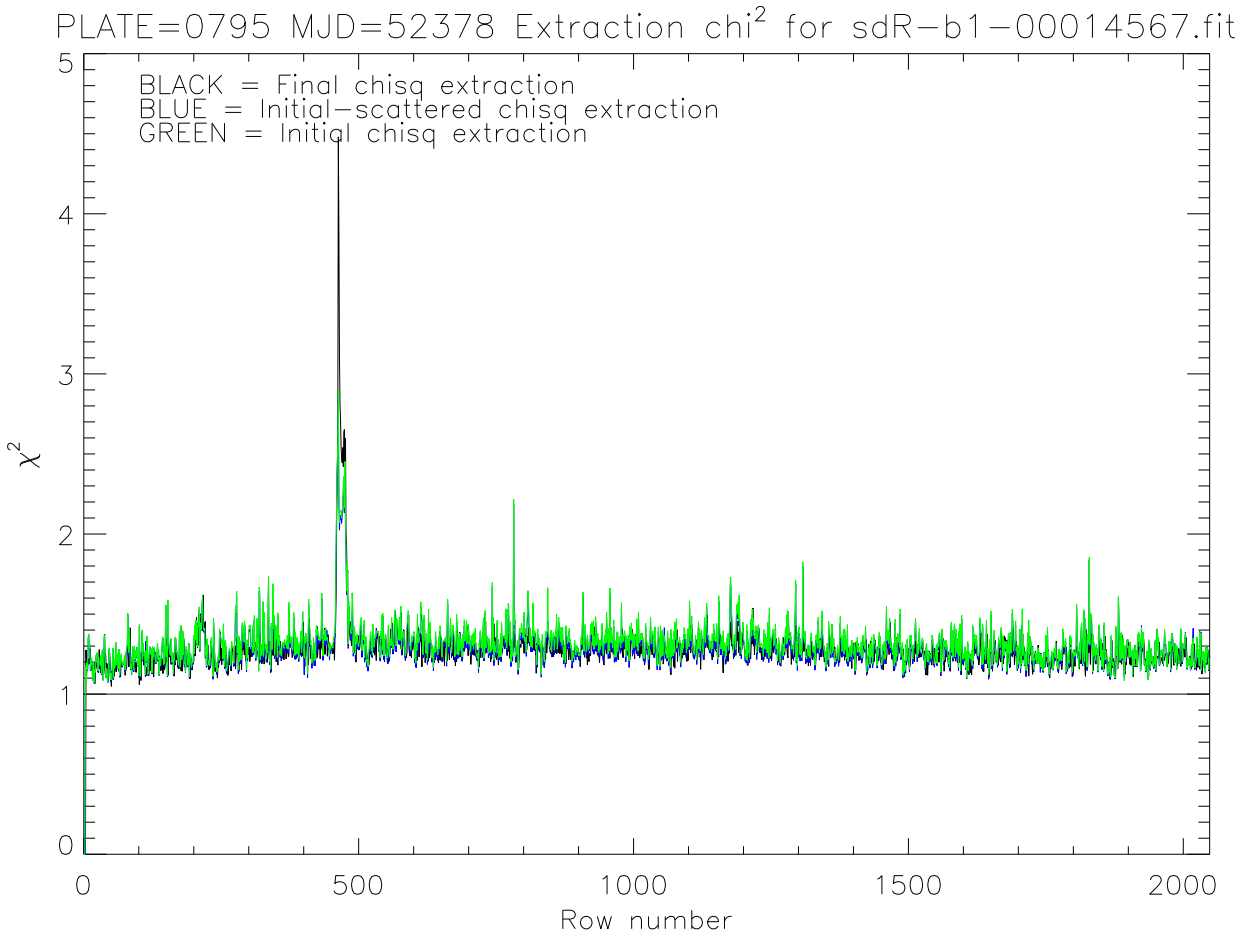

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.454
Max value = 1.234
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:17:13 2008

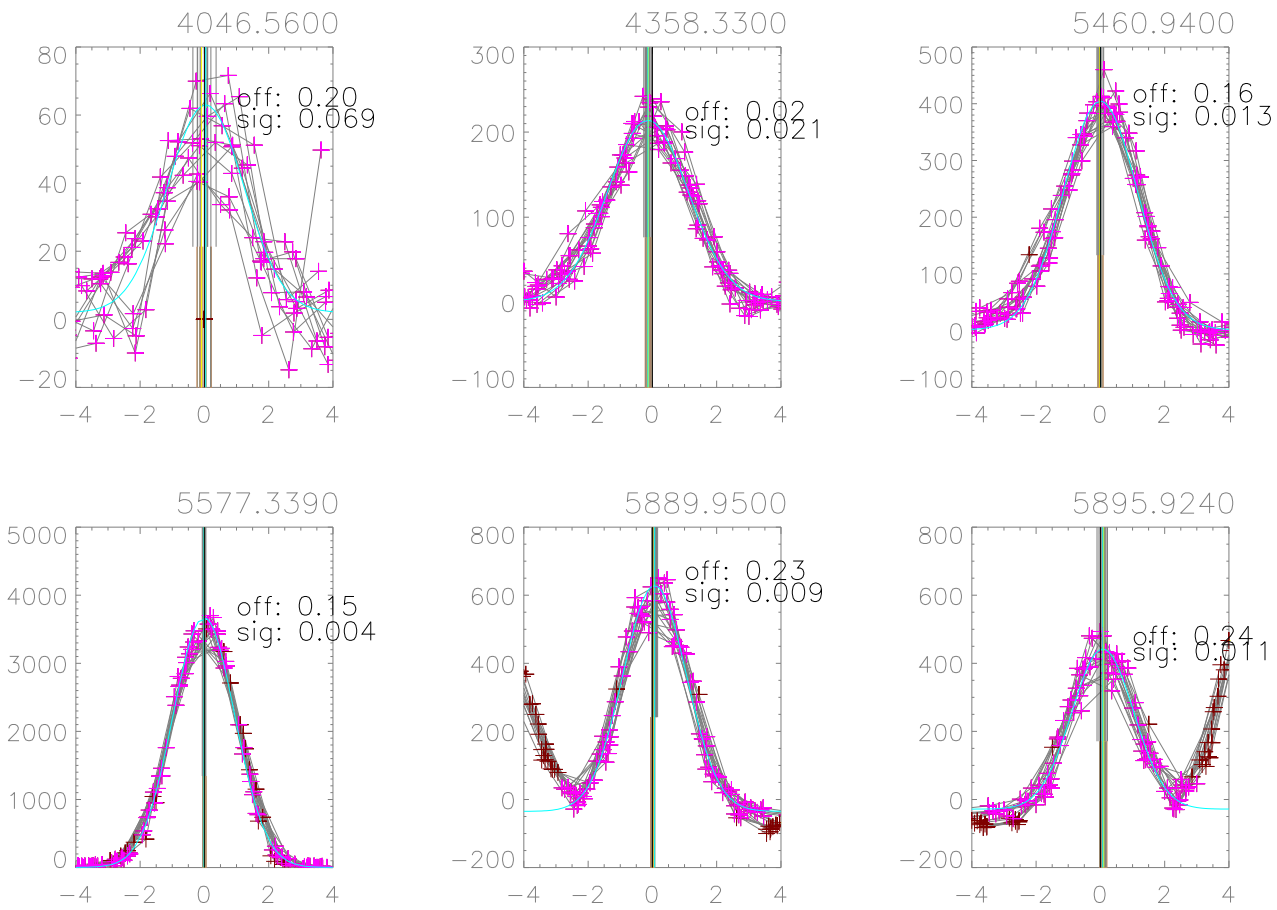

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b1-00014567.f
5.64
5.64
5.64
5.64
5.64
7.09
7.09
7.09
7.09
8.55
8.55
Y [pix]
X [pix]
0
500
1000
1500
2000

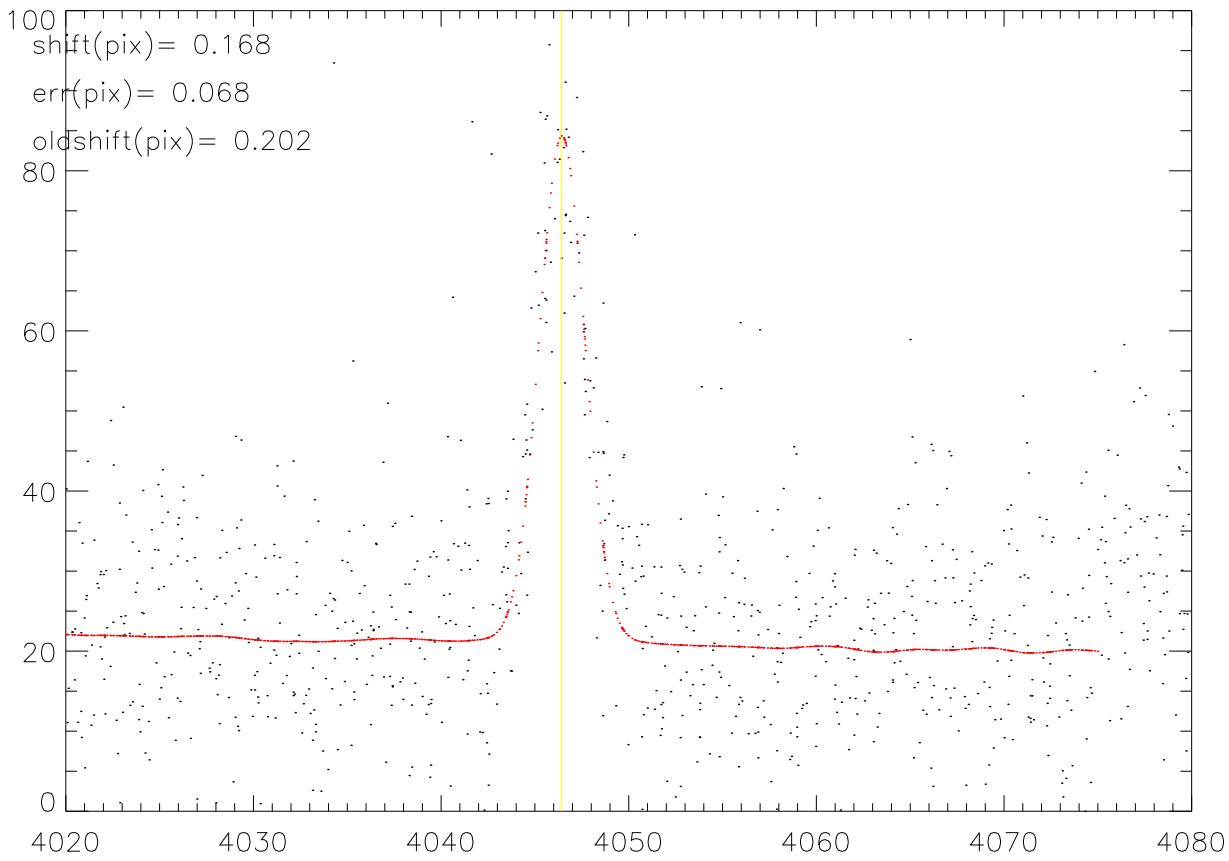

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−b1−00014567.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.345
Max value = 8.502
Mon Feb 25 03:18:20 2008

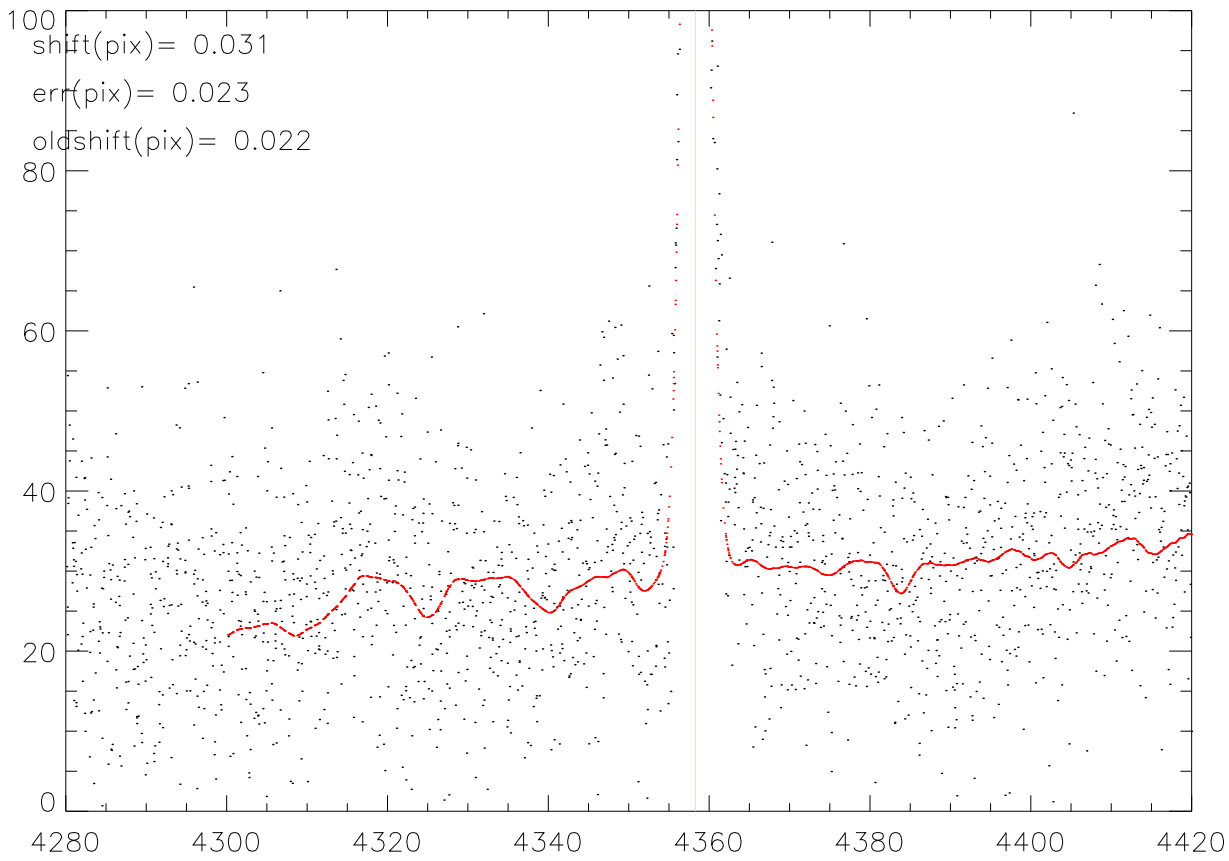

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014567.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.64
4.73
5.82

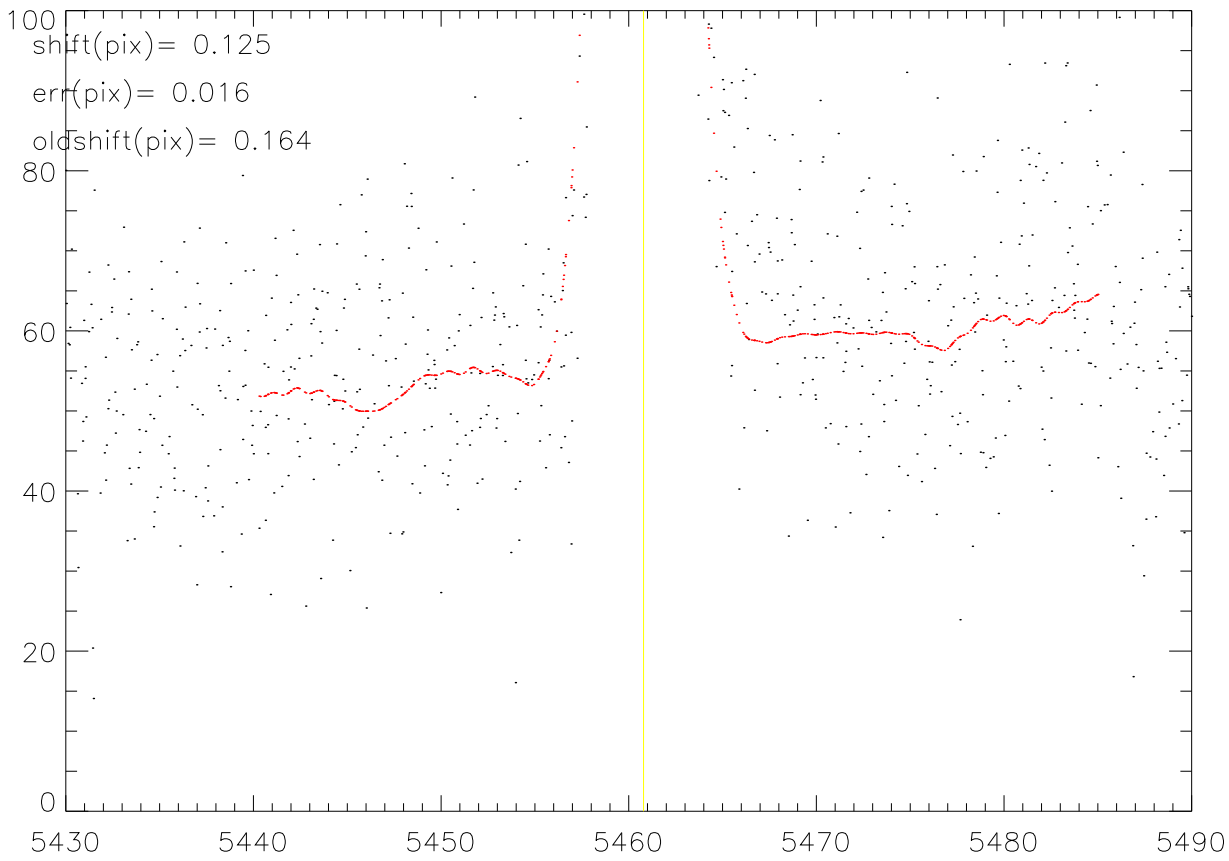

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014567.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.428
Max value = 5.431
Mon Feb 25 03:22:06 2008

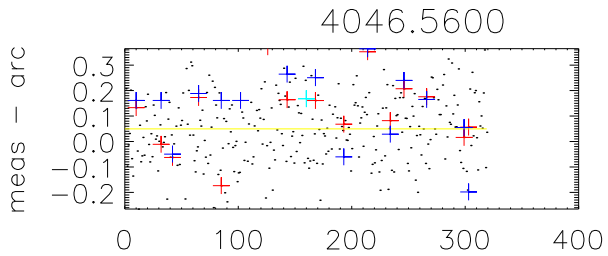

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b1-00014567.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

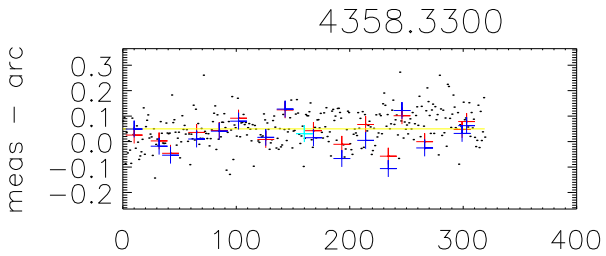

4046.5600
off: 0.20
sig: 0.069
4358.3300
off: 0.02
sig: 0.021
5460.9400
off: 0.16
sig: 0.013
5577.3390
off: 0.15
sig: 0.004
5889.9500
off: 0.23
sig: 0.009
5895.9240
off: 0.24
sig: 0.011

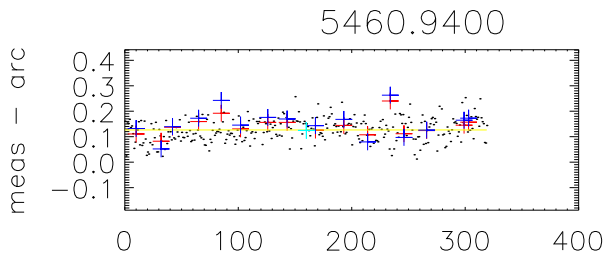

shift(pix)= 0.168
err(pix)= 0.068
oldshift(pix)= 0.202
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

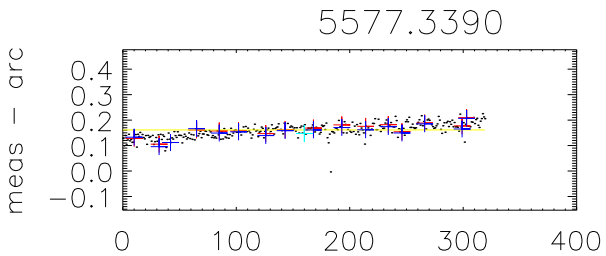

shift(pix)= 0.031
err(pix)= 0.023
oldshift(pix)= 0.022
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

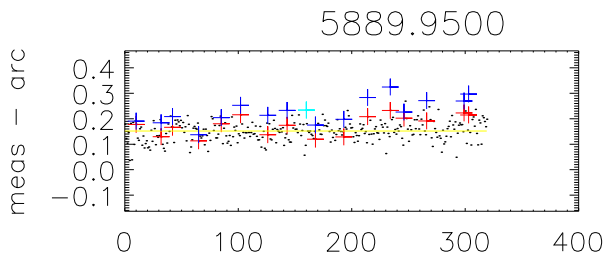

shift(pix)= 0.125
err(pix)= 0.016
oldshift(pix)= 0.164
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

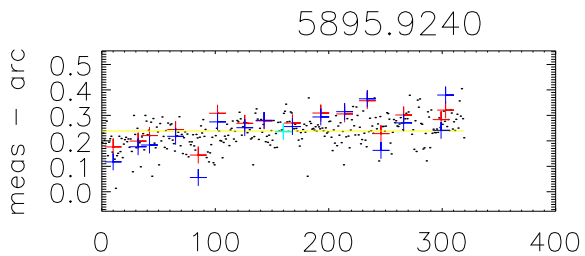

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

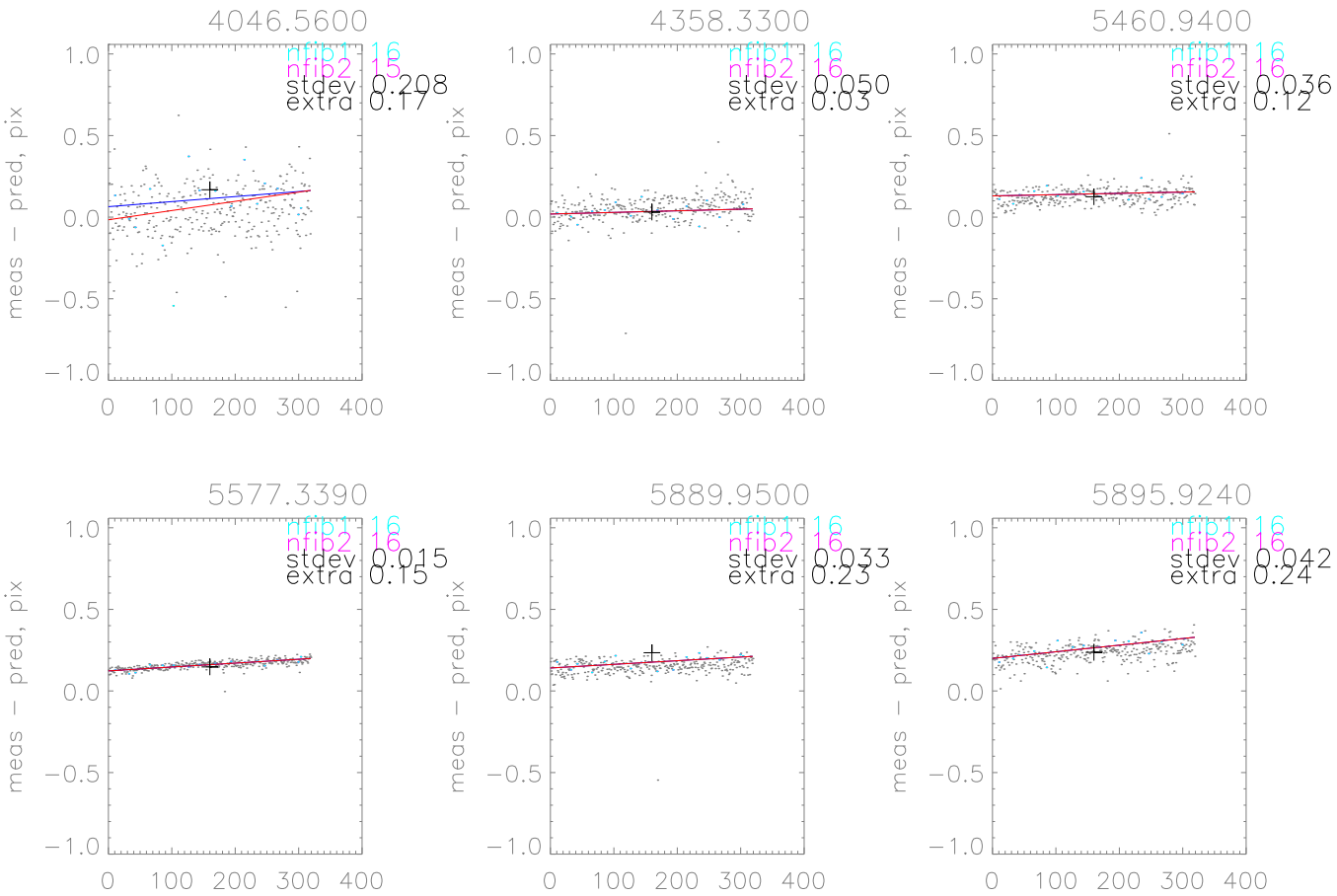

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

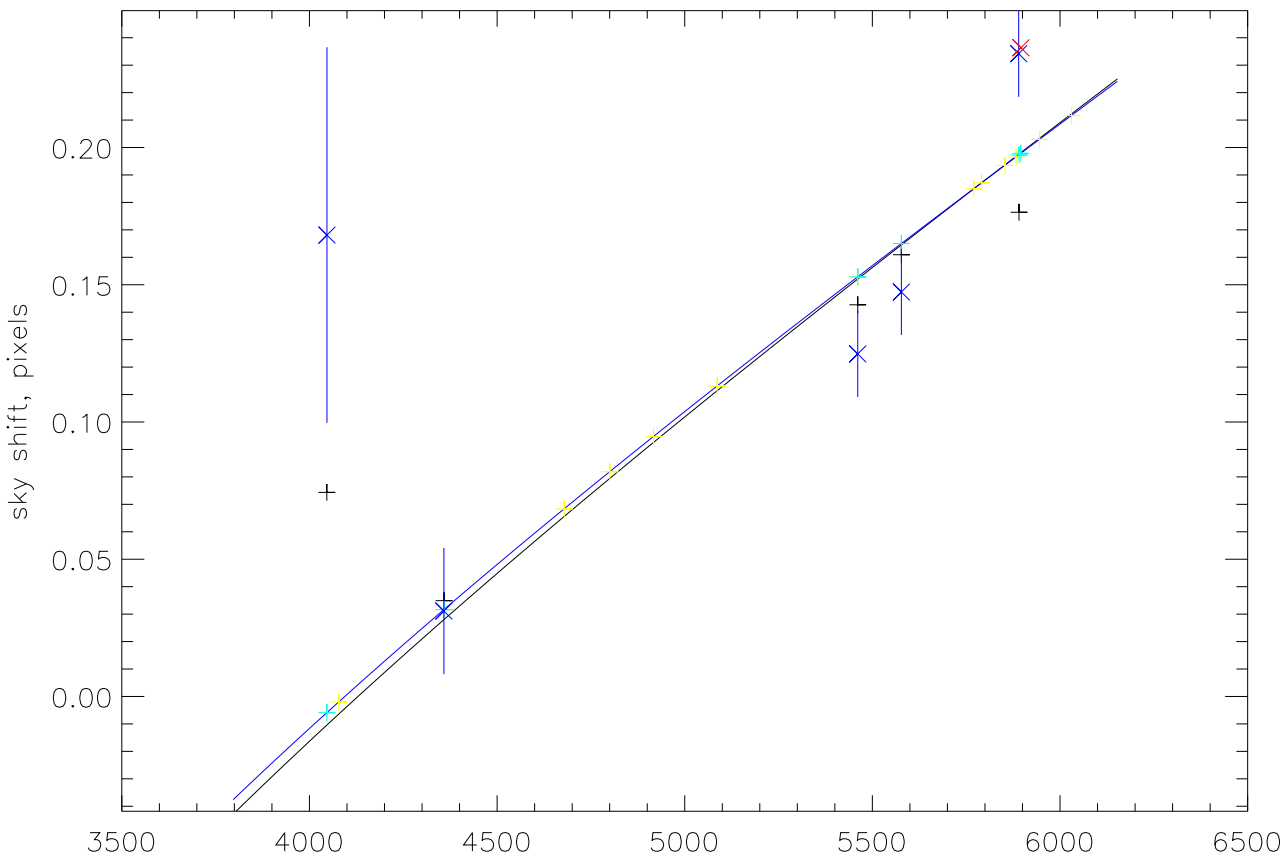

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

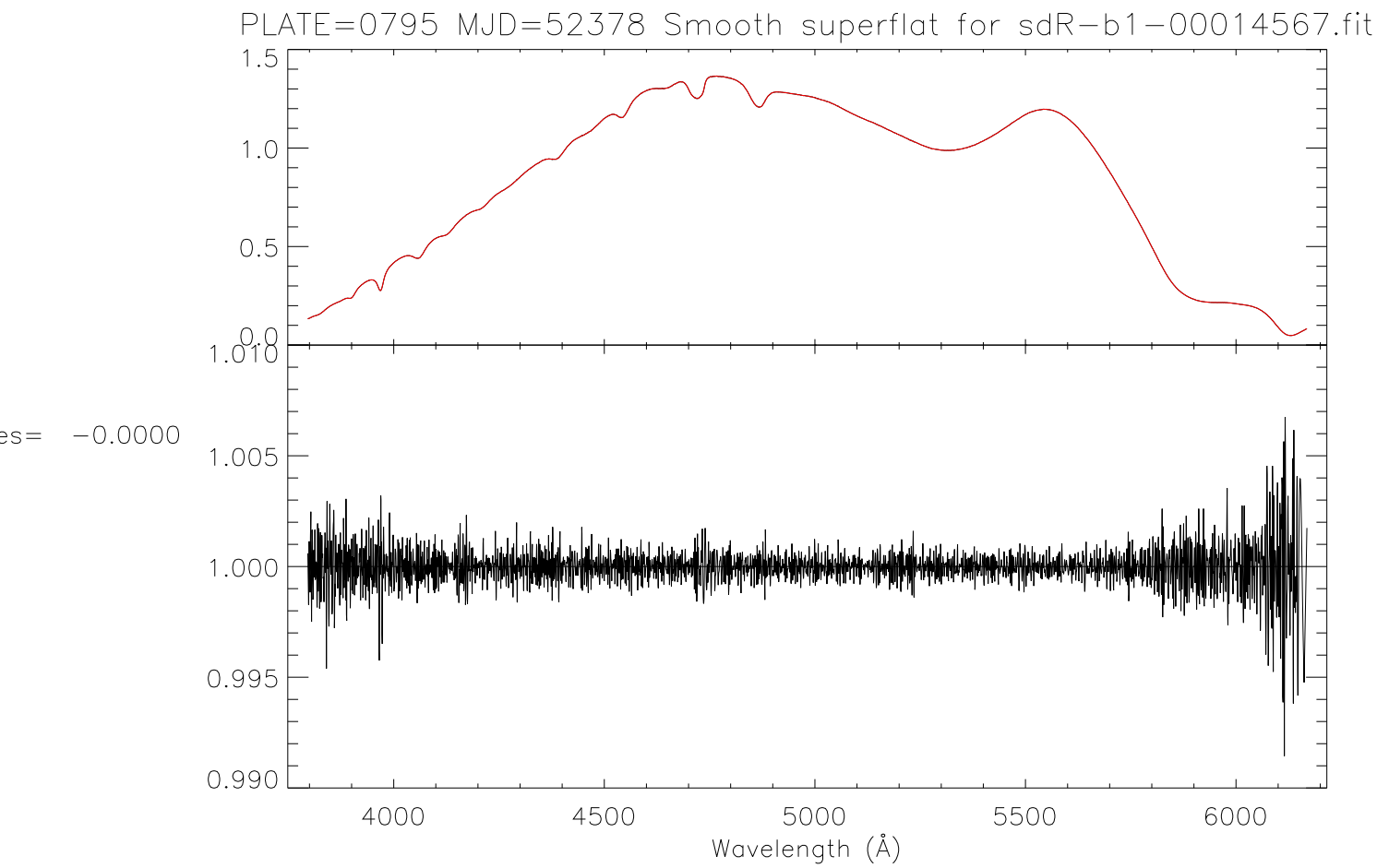

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

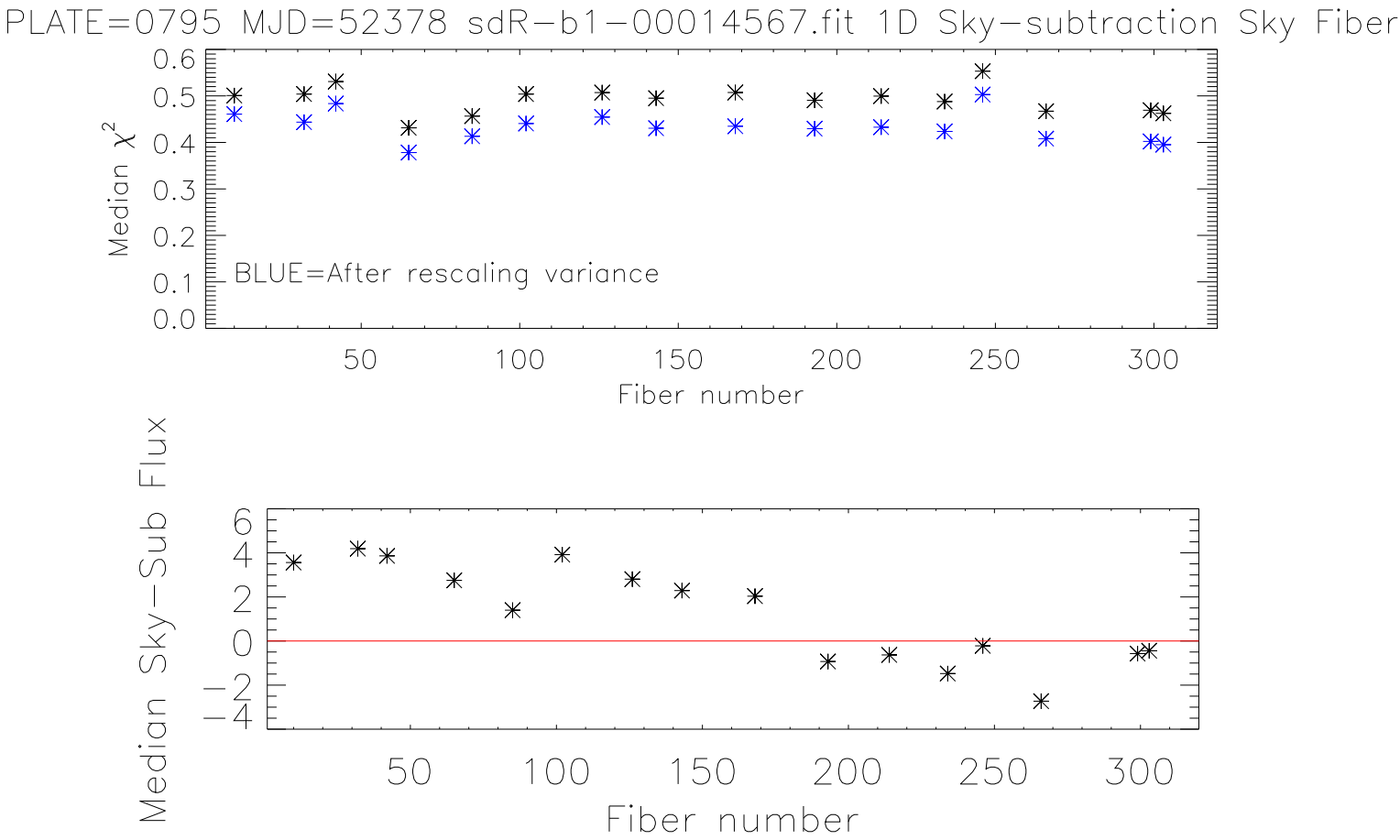

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

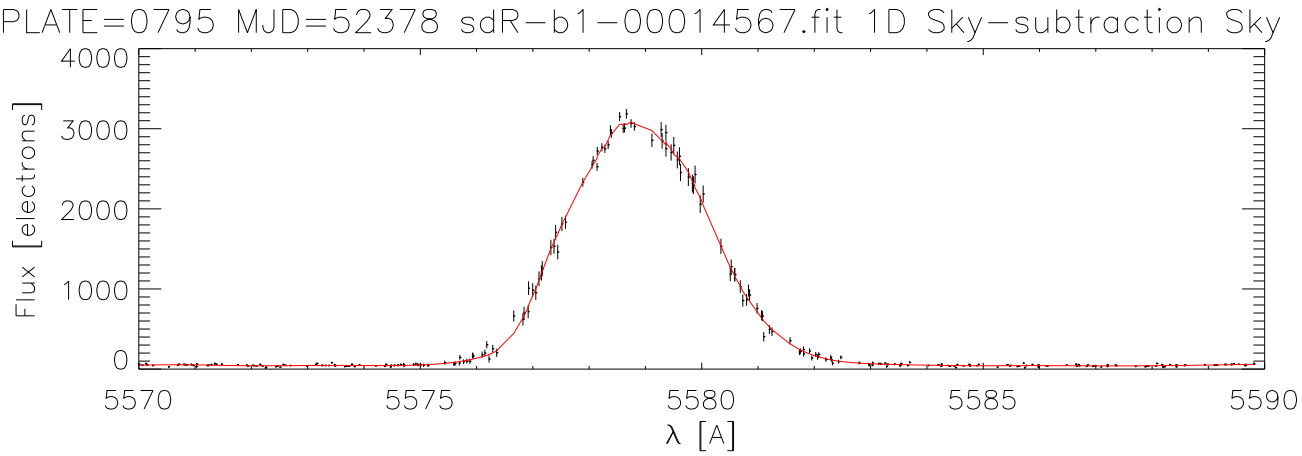

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

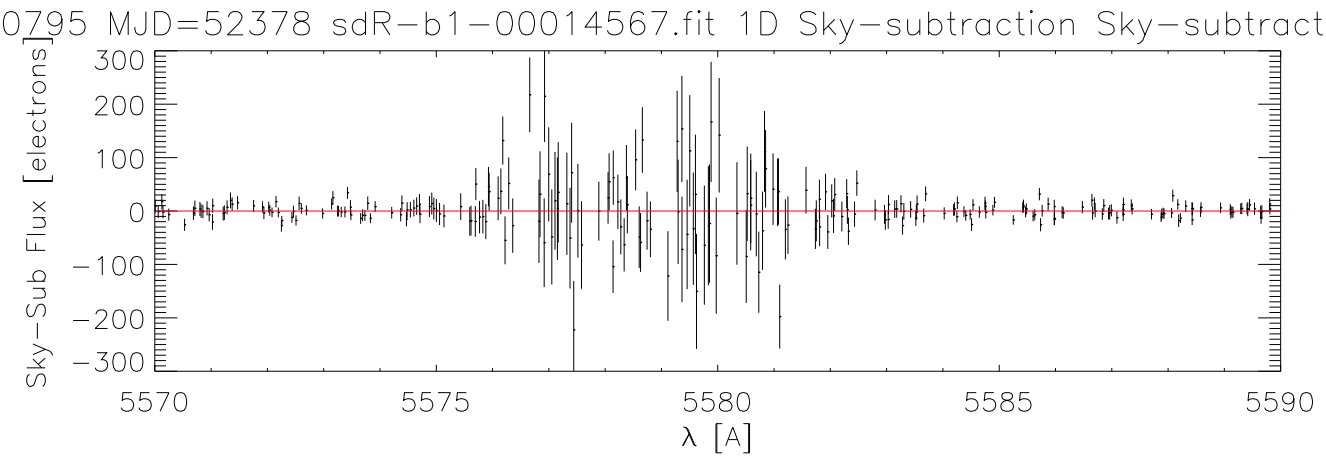

4046.5600
nfib1 16
nfib2 15
stdev 0.208
extra 0.17
4358.3300
nfib1 16
nfib2 16
stdev 0.050
extra 0.03
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra 0.12
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra 0.15
5889.9500
nfib1 16
nfib2 16
stdev 0.033
extra 0.23
5895.9240
nfib1 16
nfib2 16
stdev 0.042
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

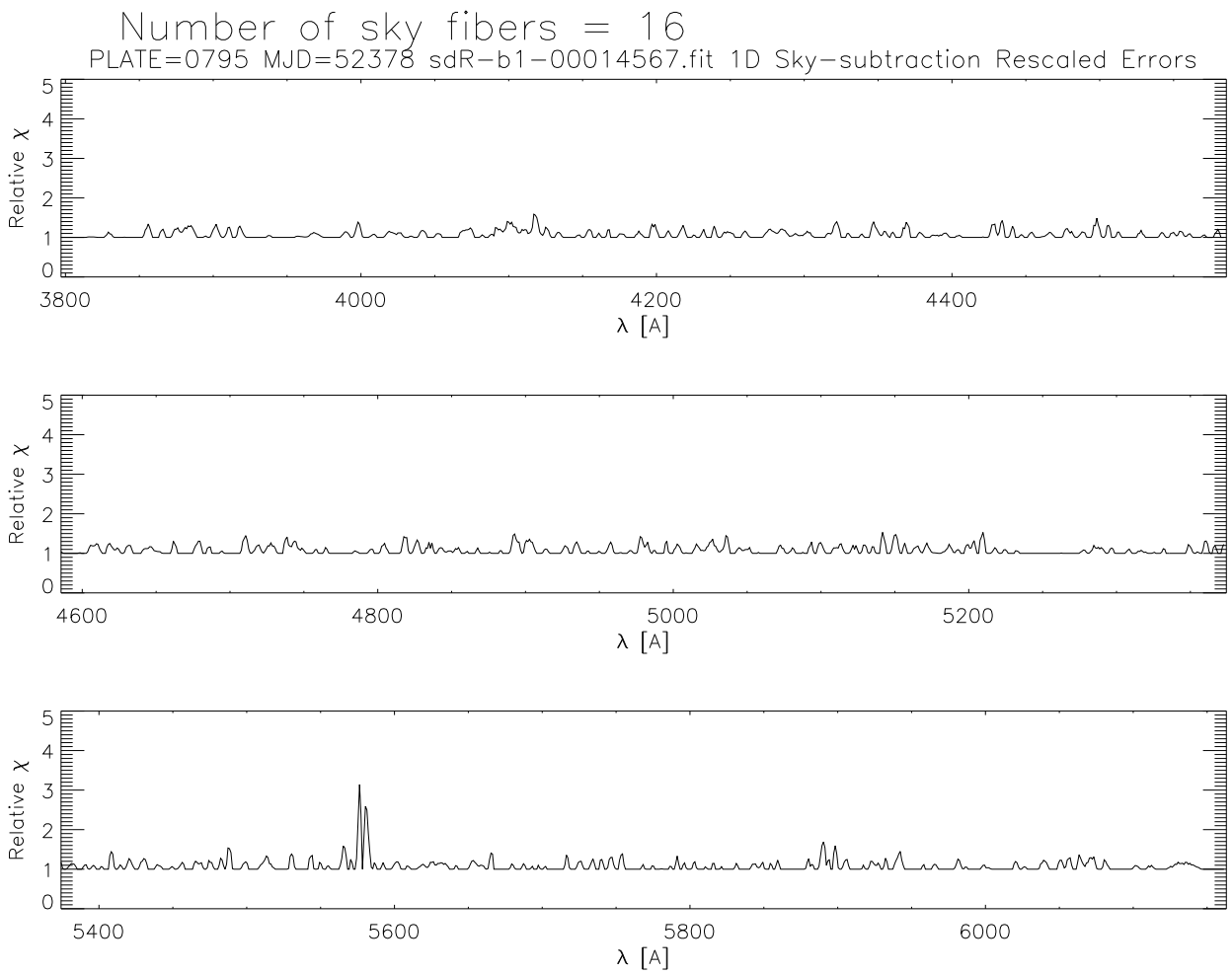

sky shift, pixels
0.20
0.15
0.10
0.05
0.00
3500
4000
4500
5000
5500
6000
6500

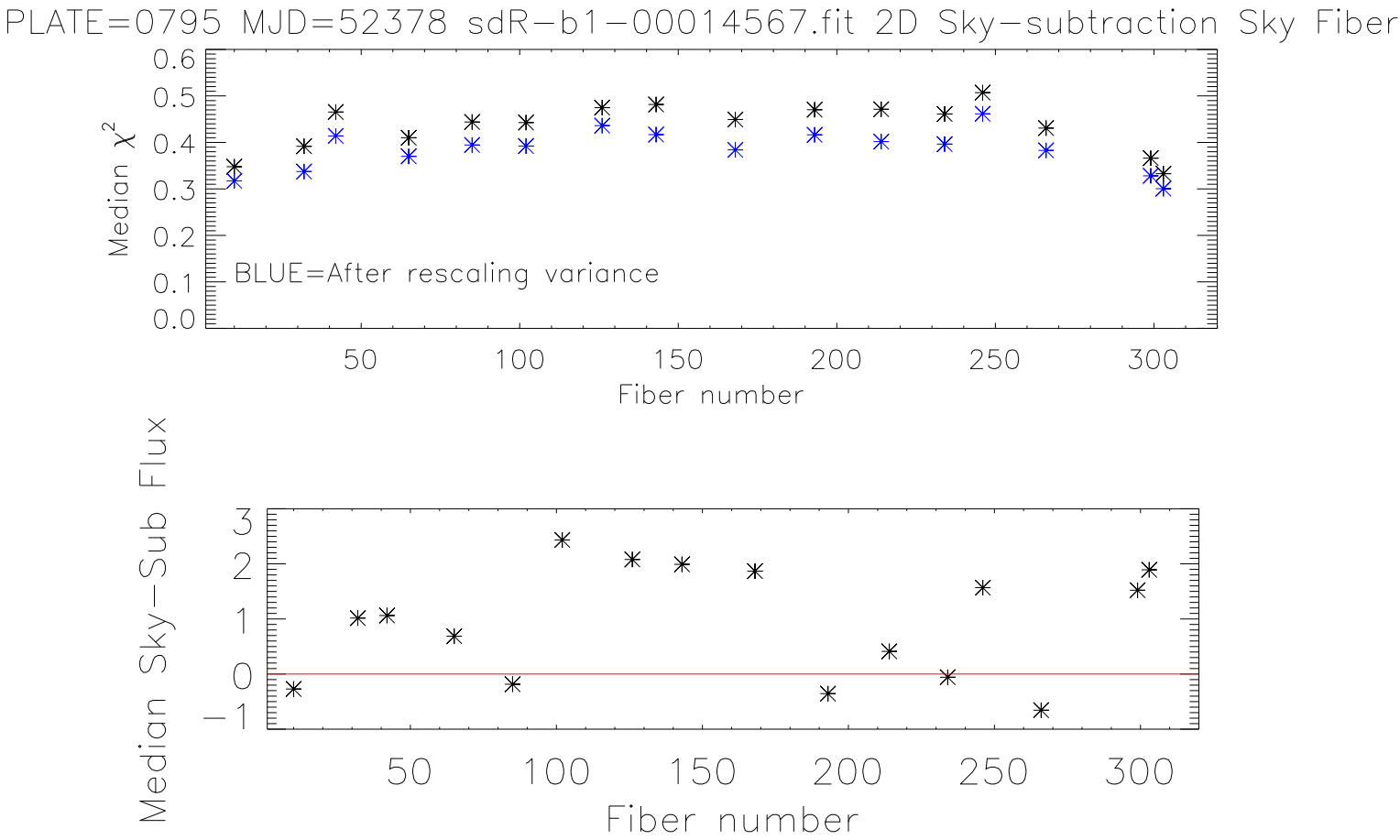

PLATE=0795 MJD=52378 Smooth superflat for sdR-b1-00014567.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

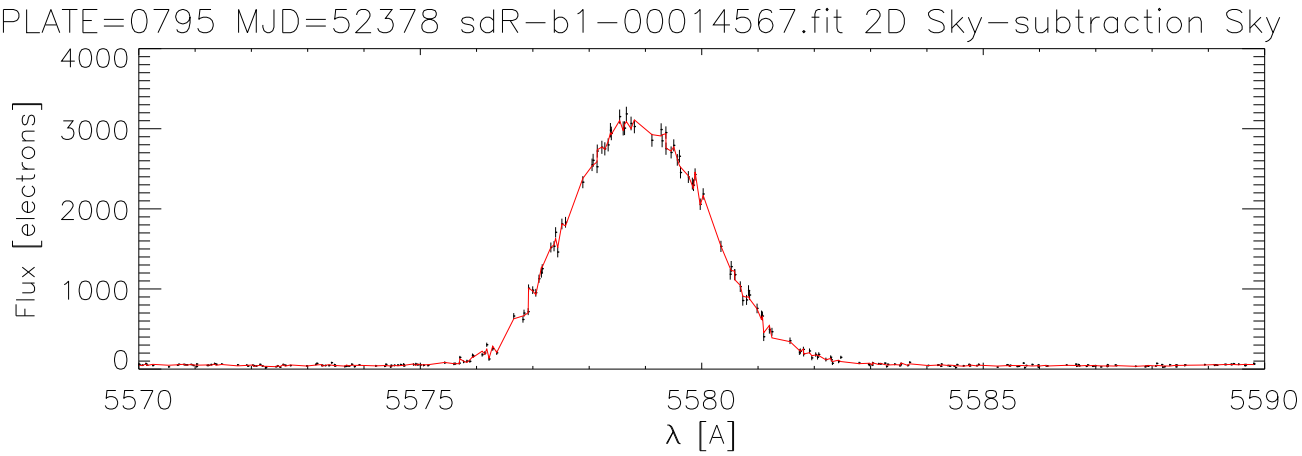

PLATE=0795 MJD=52378 sdR-b1-00014567.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

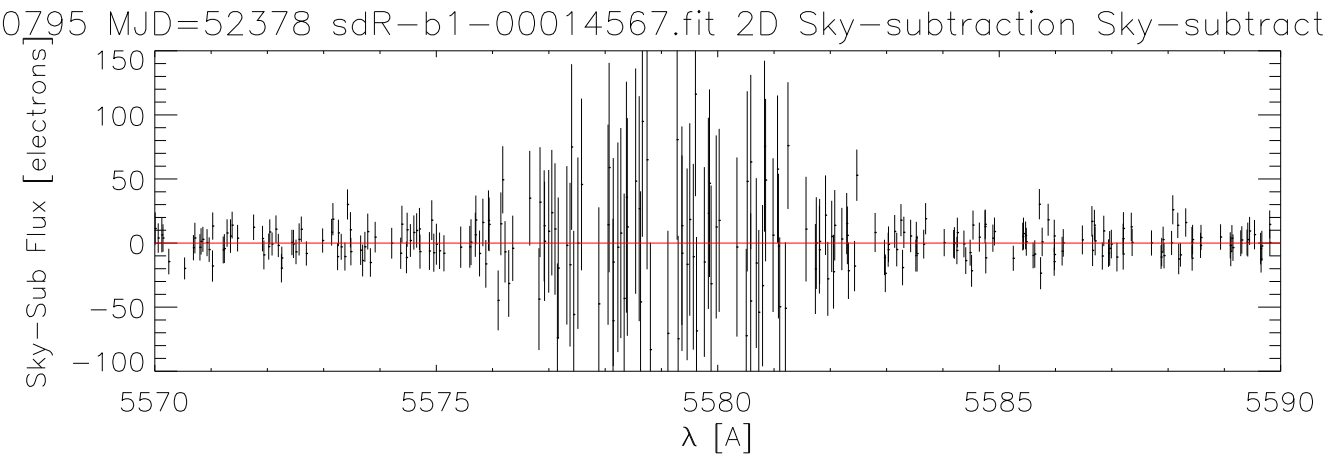

PLATE=0795 MJD=52378 sdR-b1-00014567.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

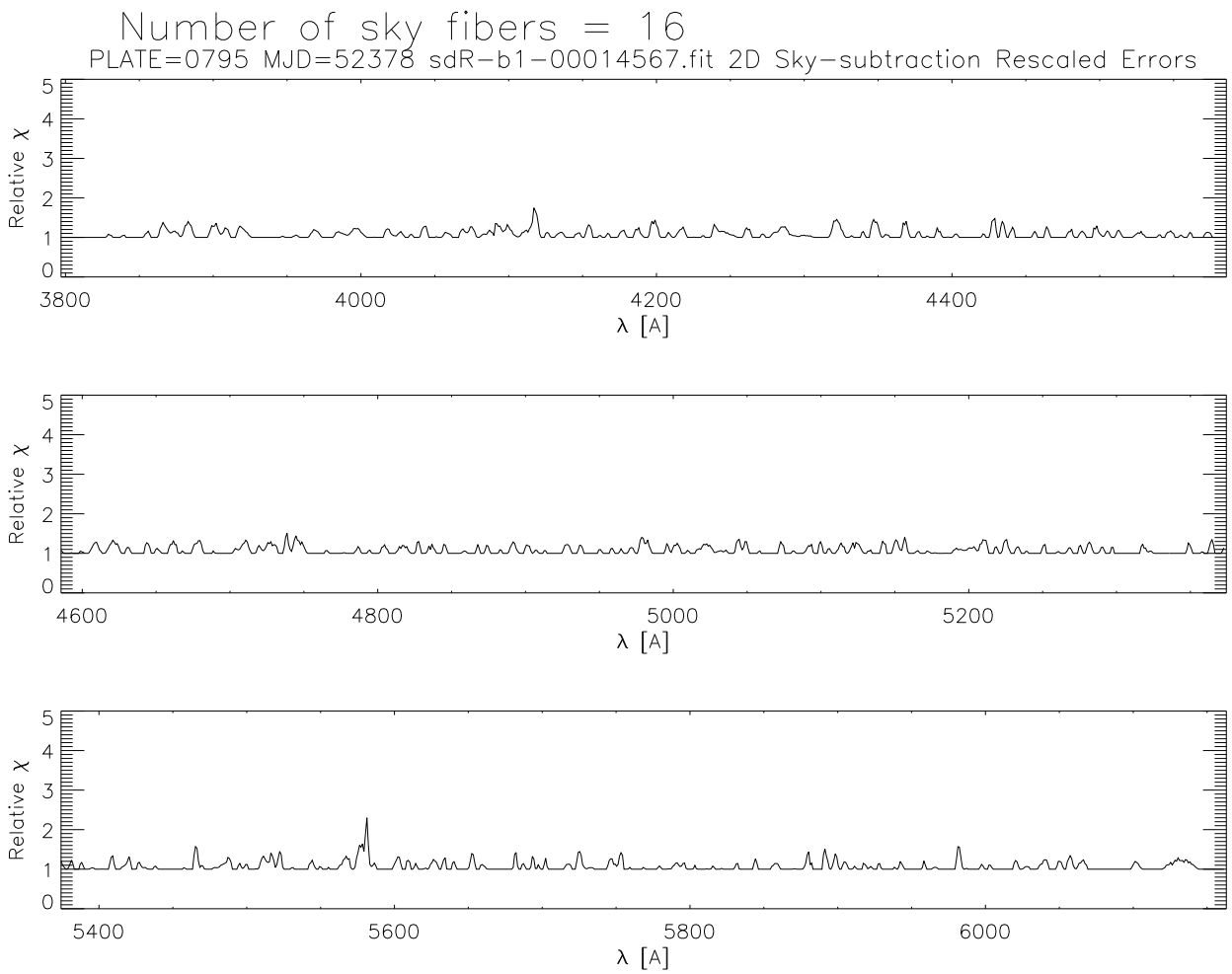

PLATE=0795 MJD=52378 sdR-b1-00014567.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

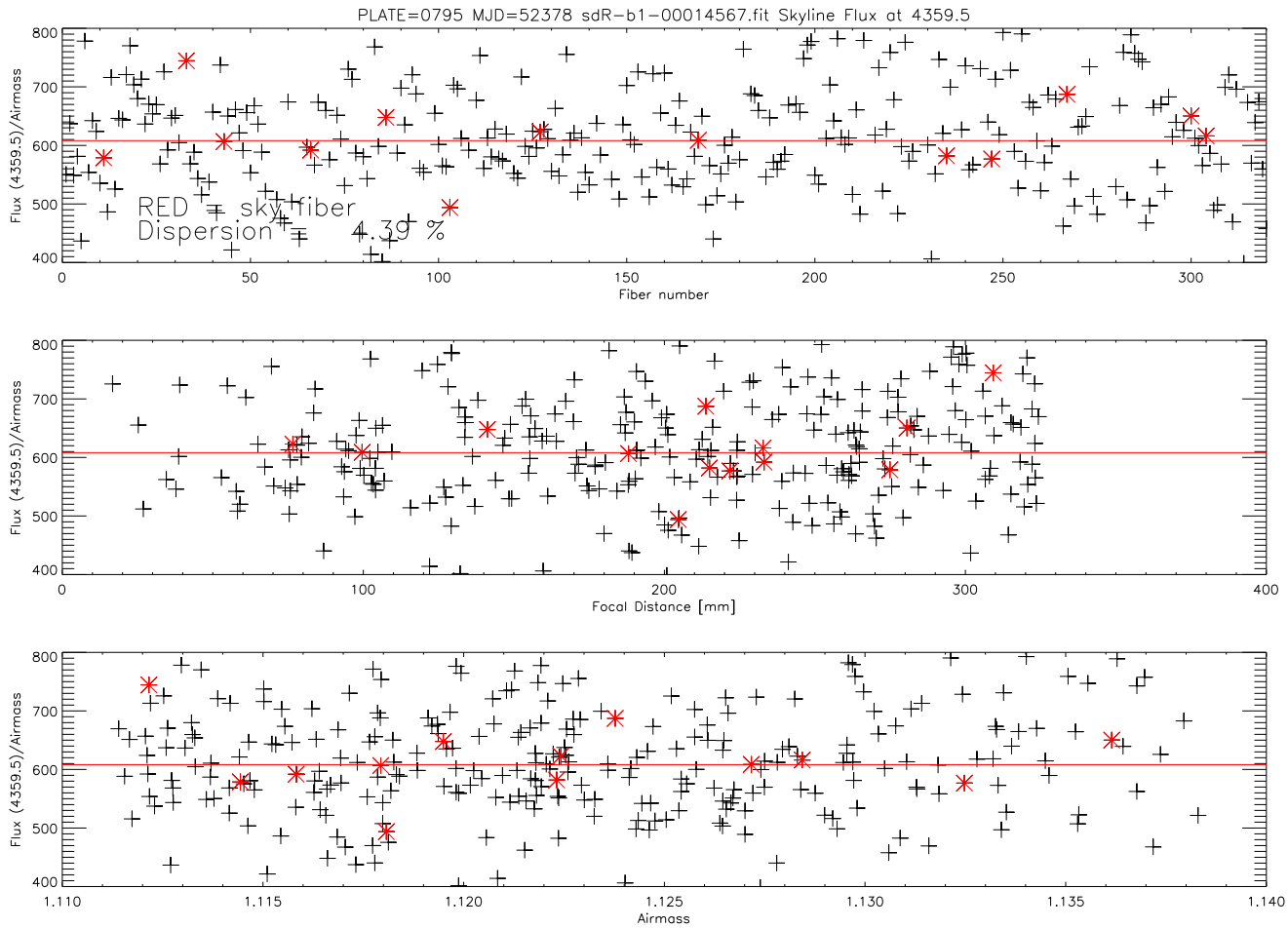

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014567.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

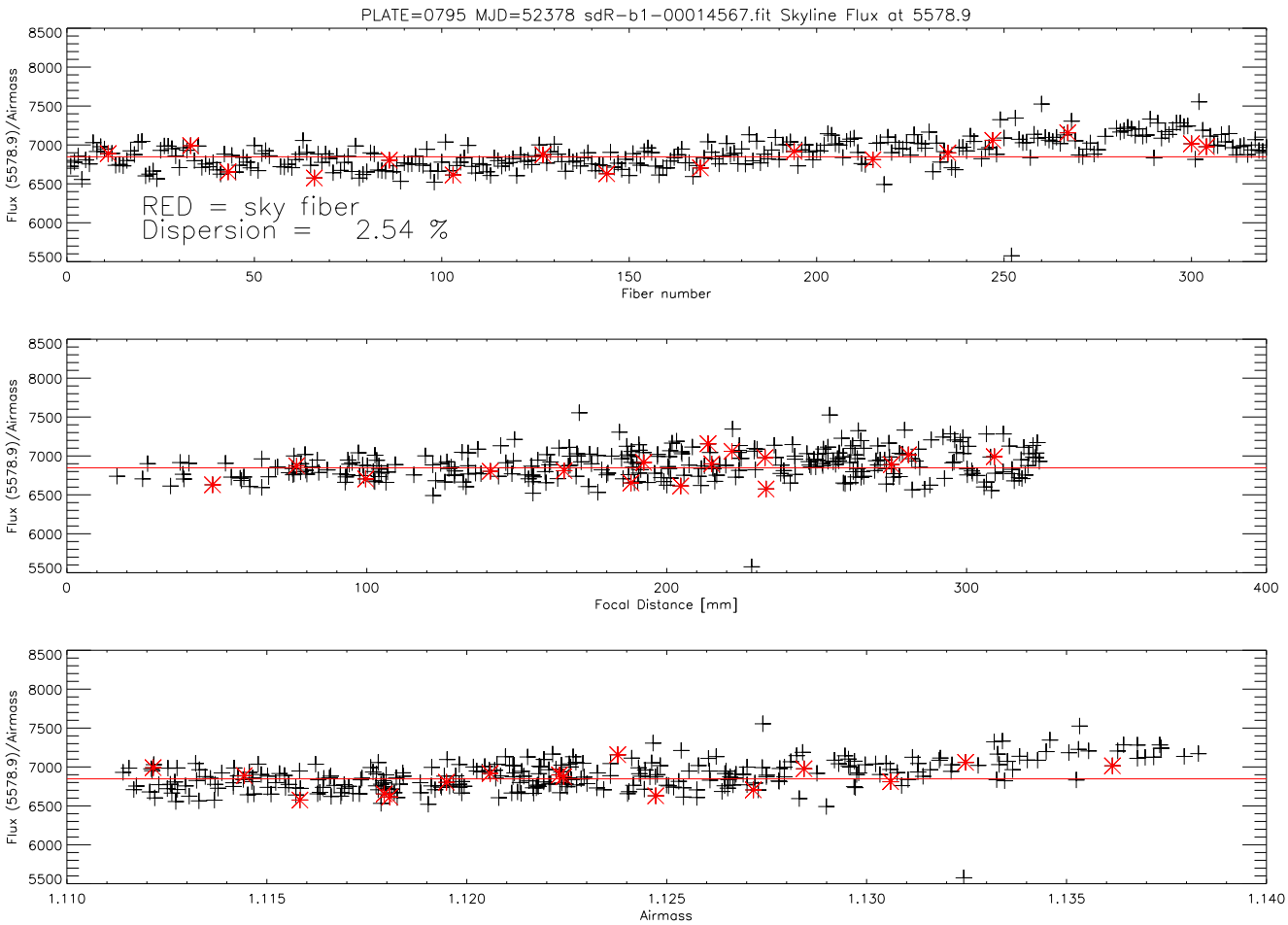

PLATE=0795 MJD=52378 sdR-b1-00014567.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

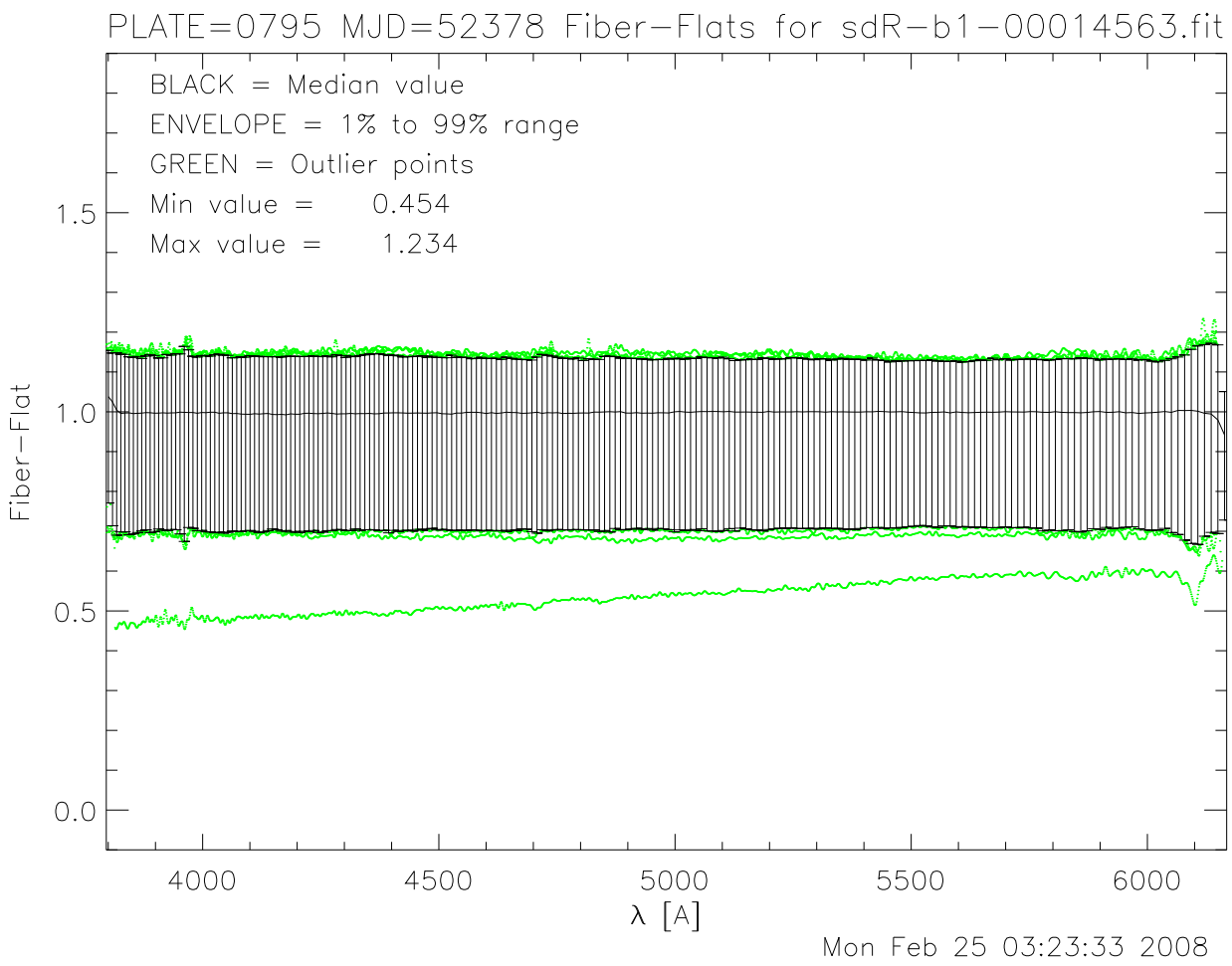

PLATE=0795 MJD=52378 sdR-b1-00014567.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

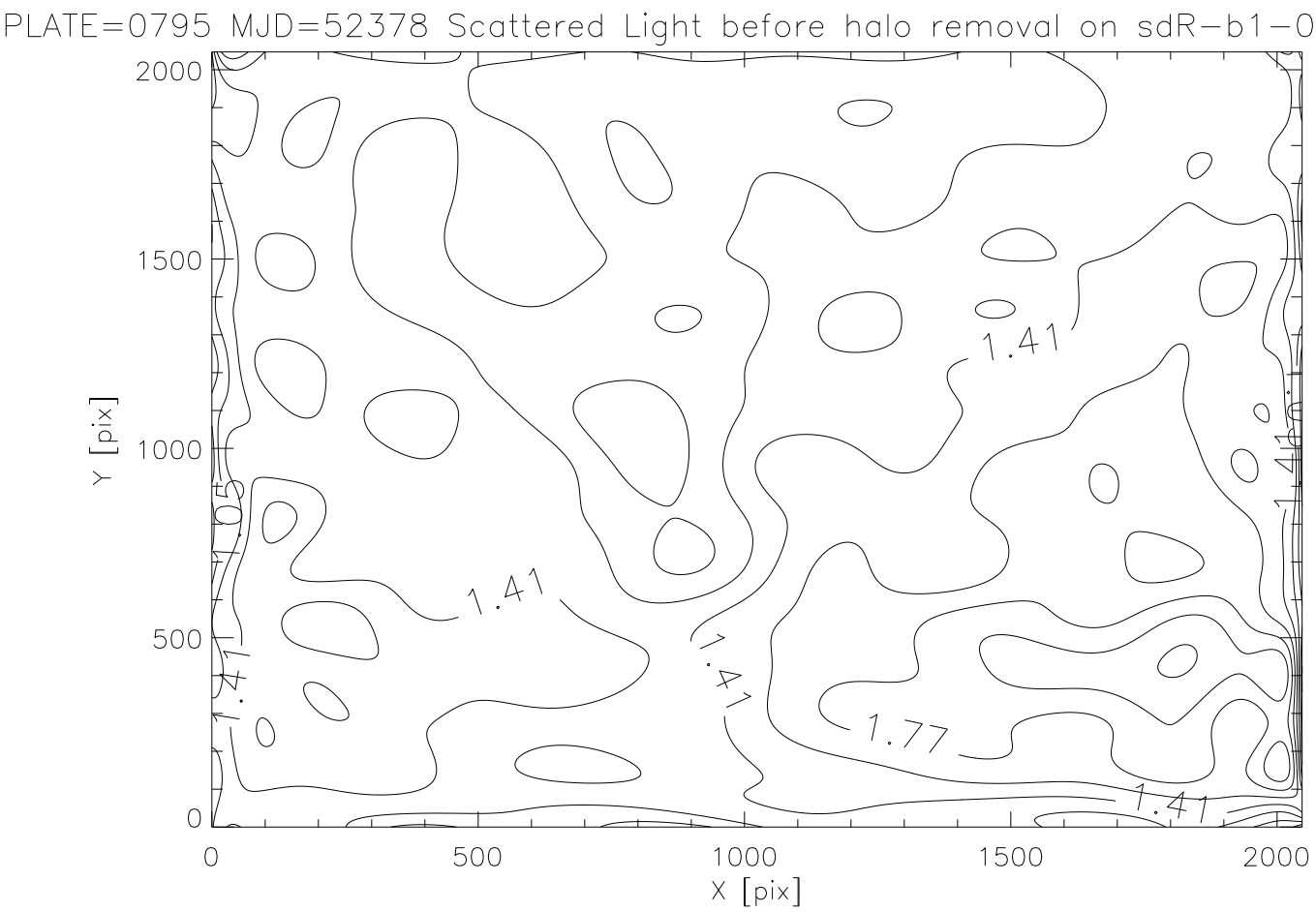

PLATE=0795 MJD=52378 sdR-b1-00014567.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

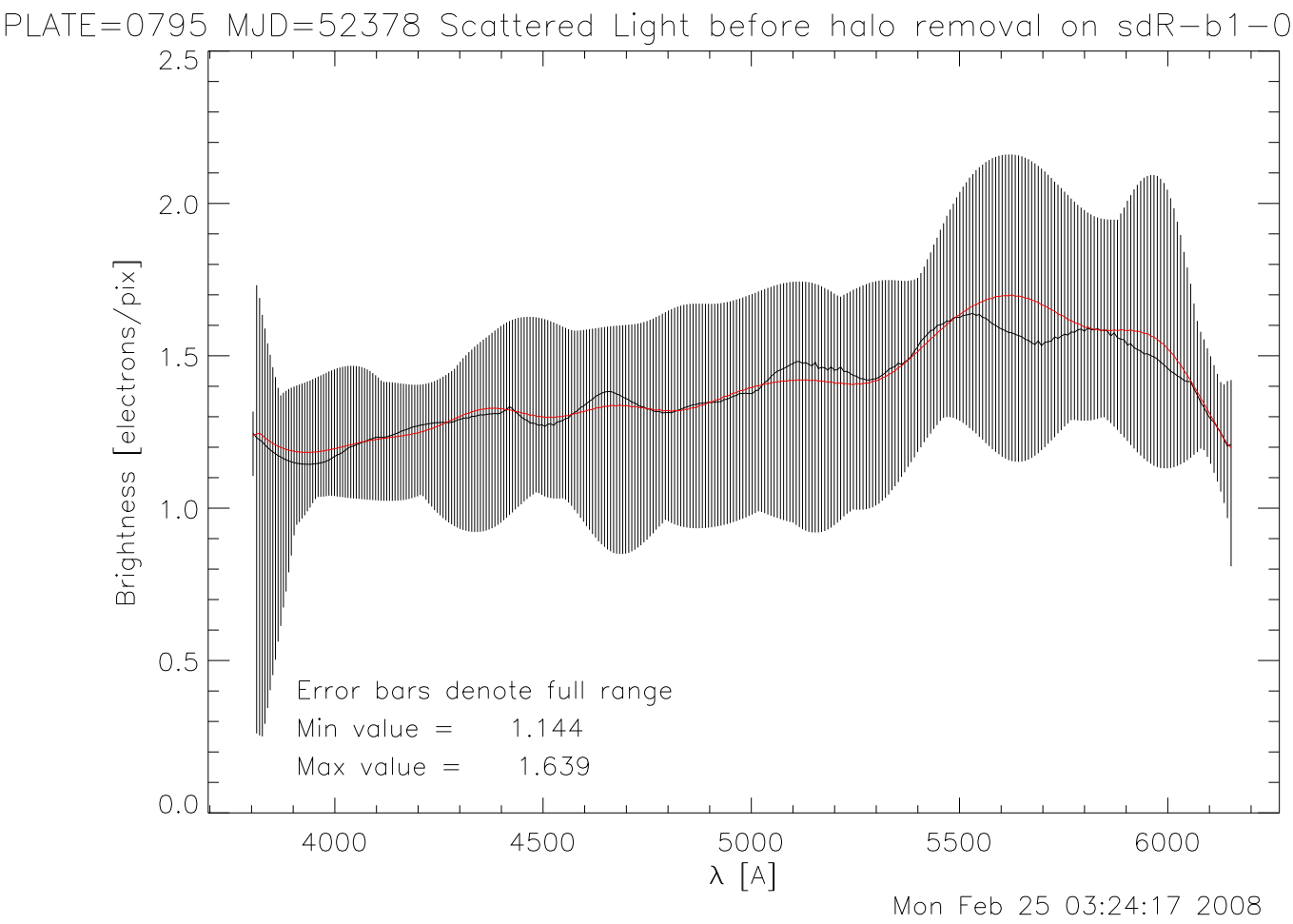

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014567.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

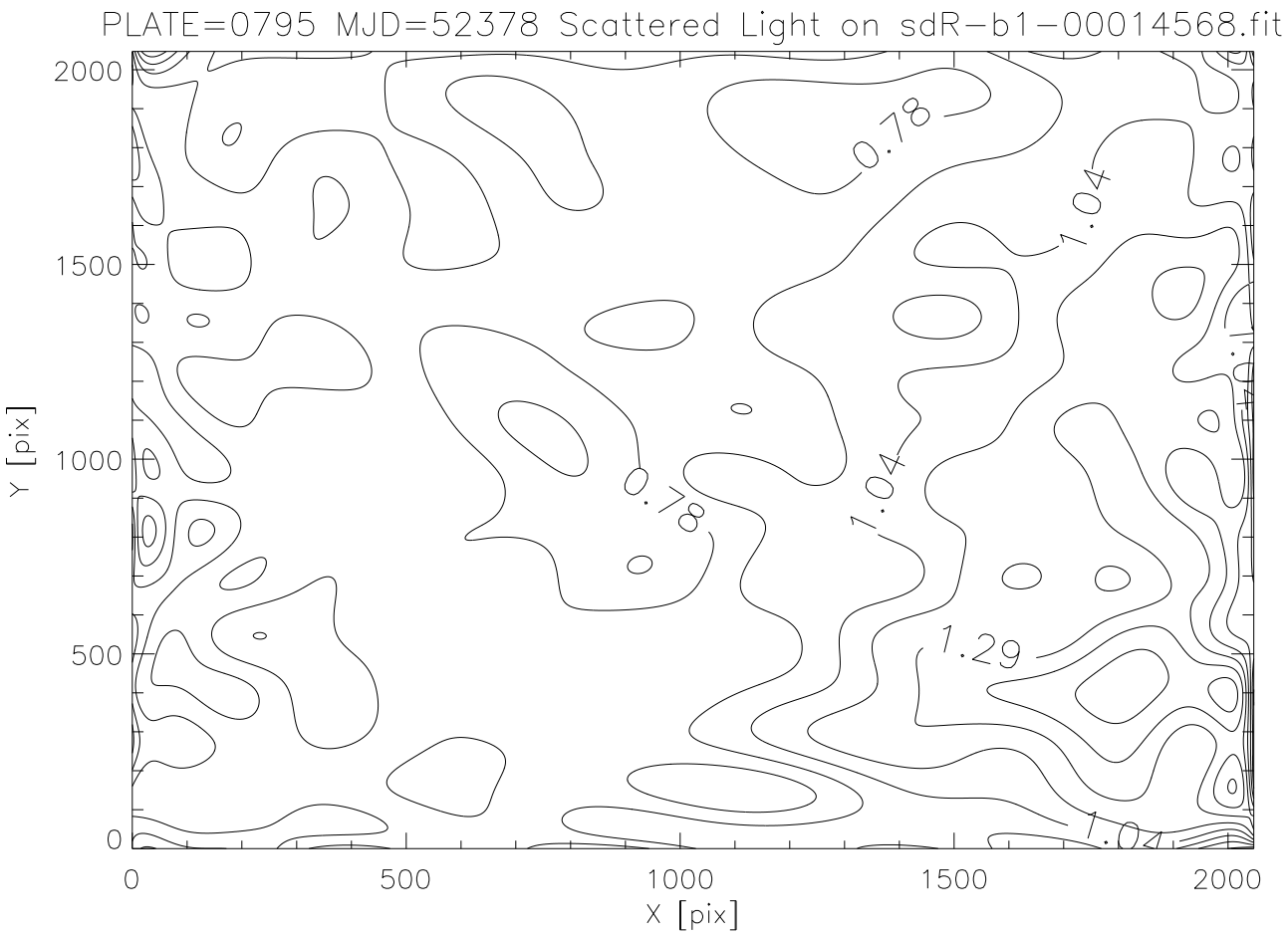

PLATE=0795 MJD=52378 sdR-b1-00014567.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.39 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

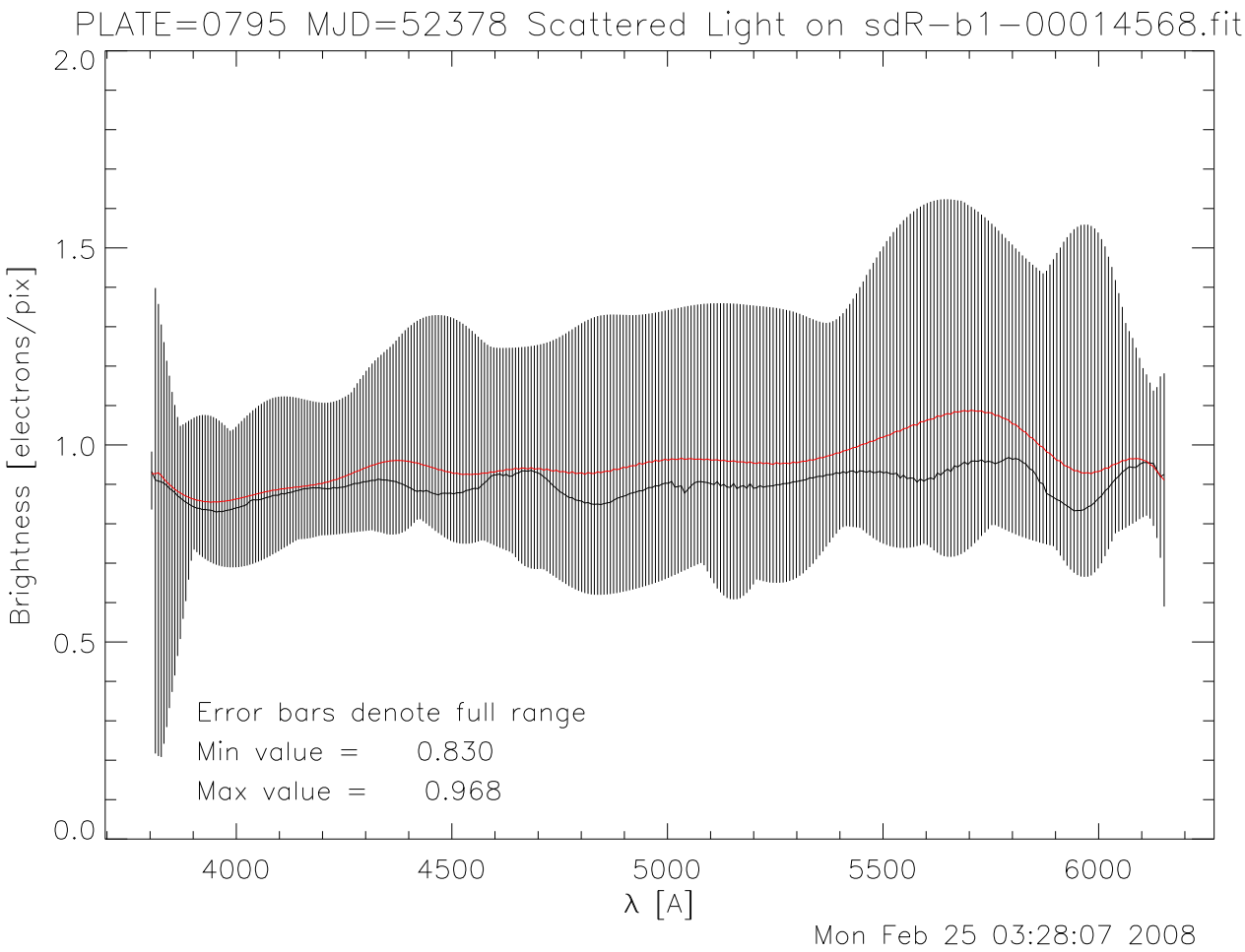

PLATE=0795 MJD=52378 sdR-b1-00014567.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.54 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

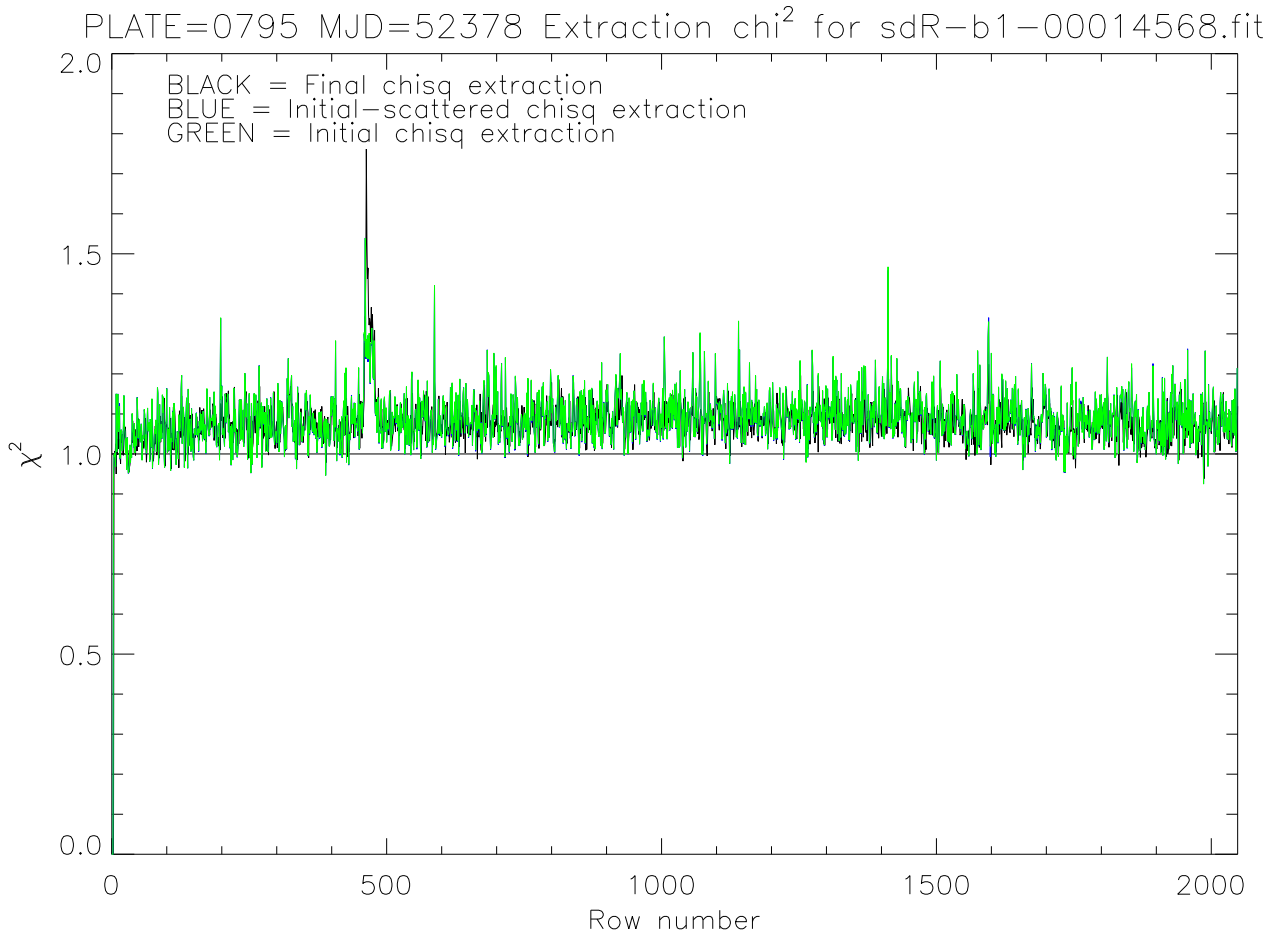

PLATE=0795 MJD=52378 Fiber-Flats for sdR-b1-00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.454
Max value = 1.234
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:23:33 2008

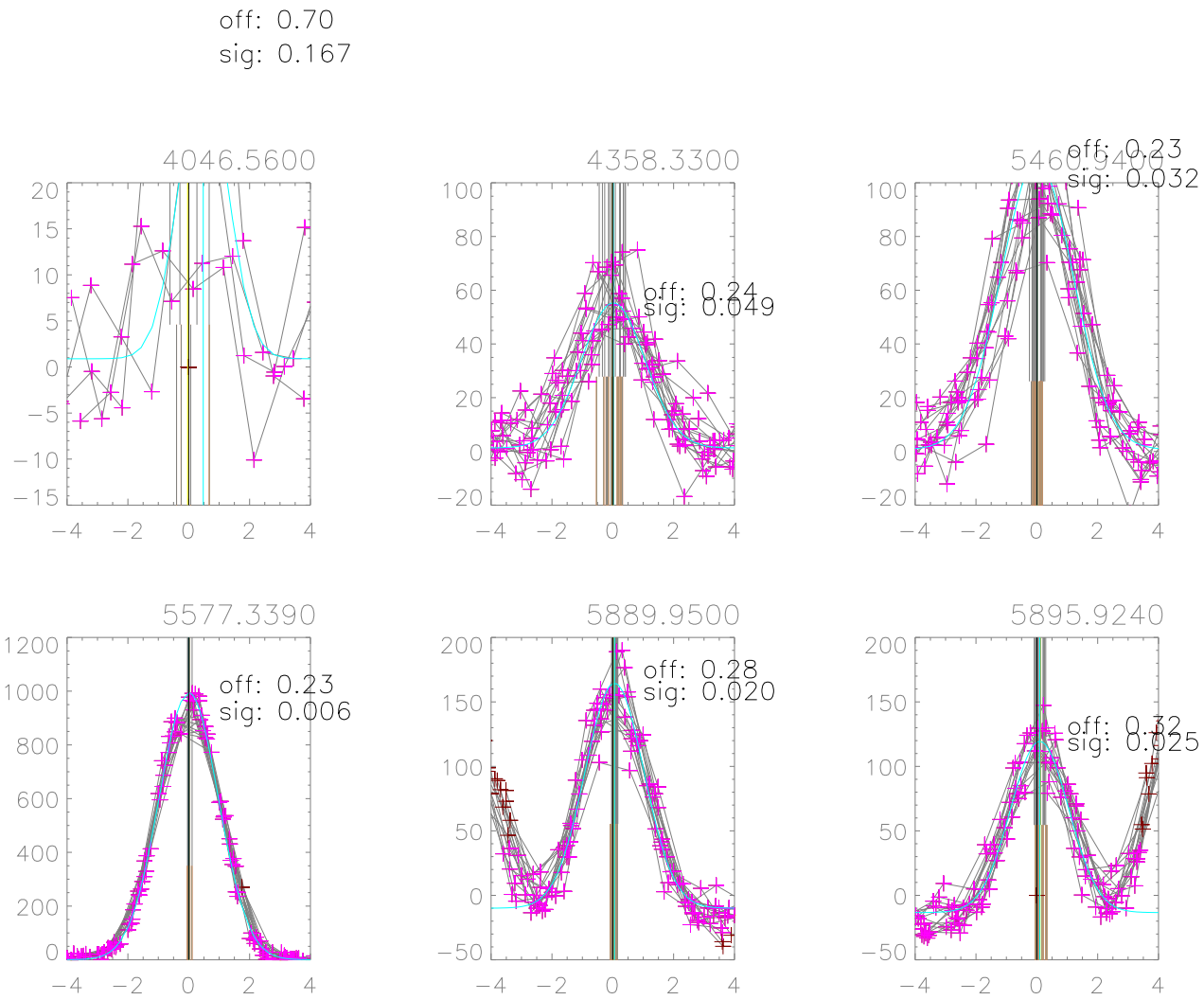

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−b1−00014568.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.41
1.41
1.41
1.41
1.77
1.41
1.41
1.41

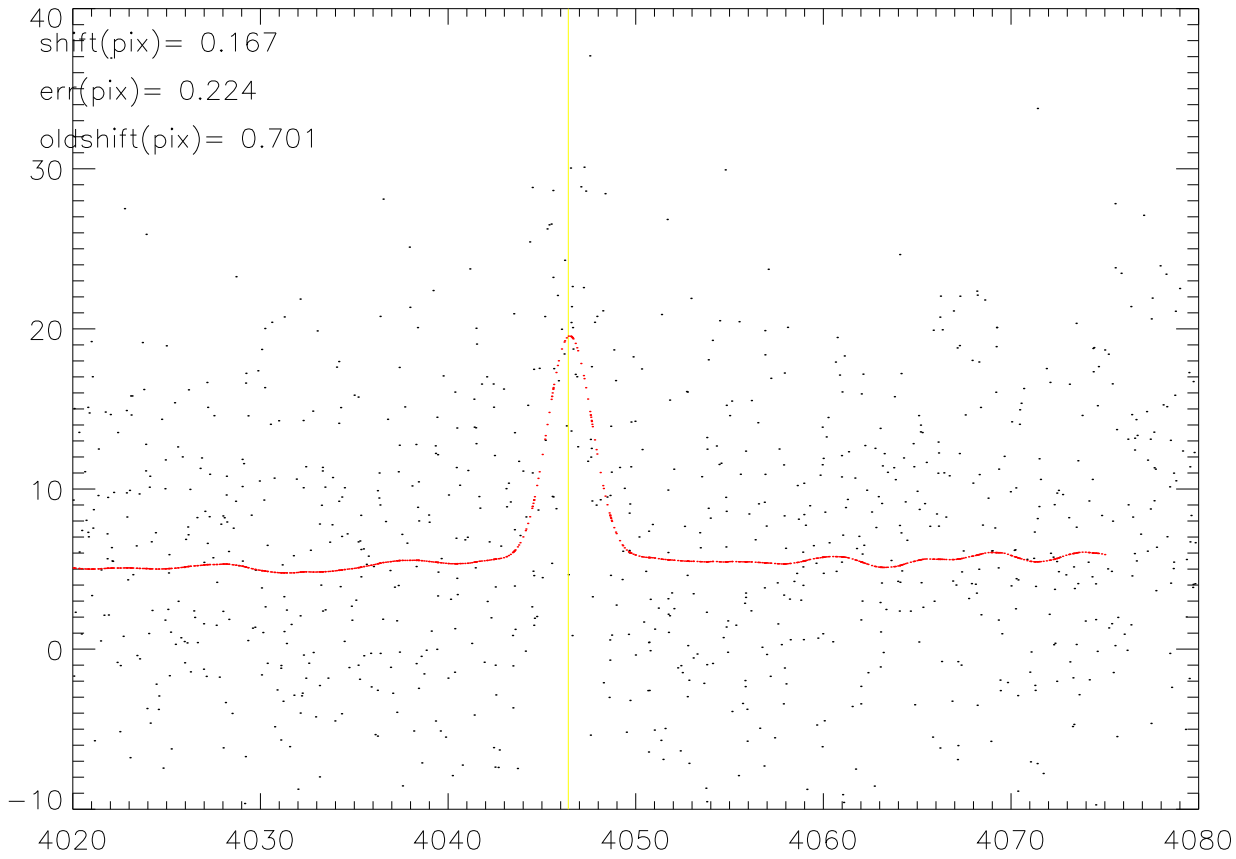

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b1-00014568.f
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.144
Max value = 1.639
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:24:17 2008

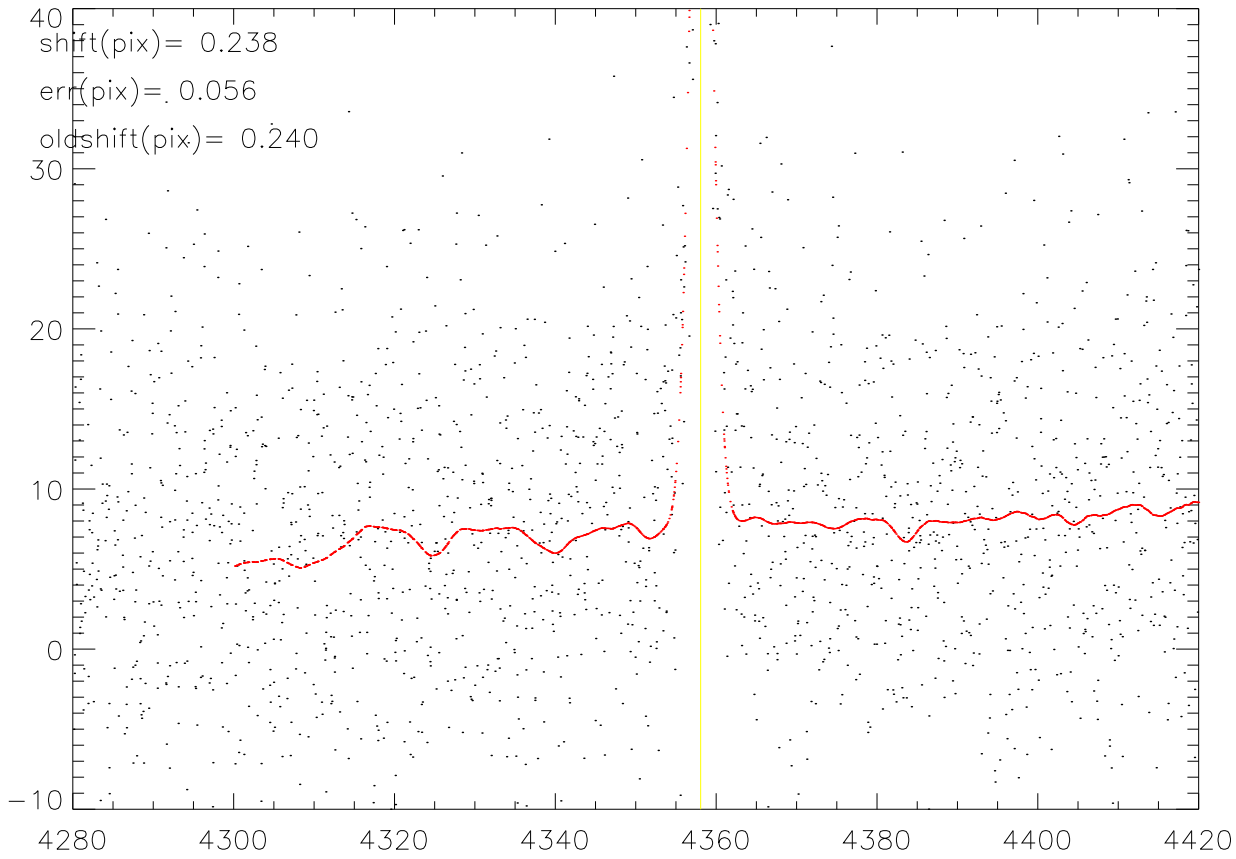

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014568.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0.78
1.04
1.29

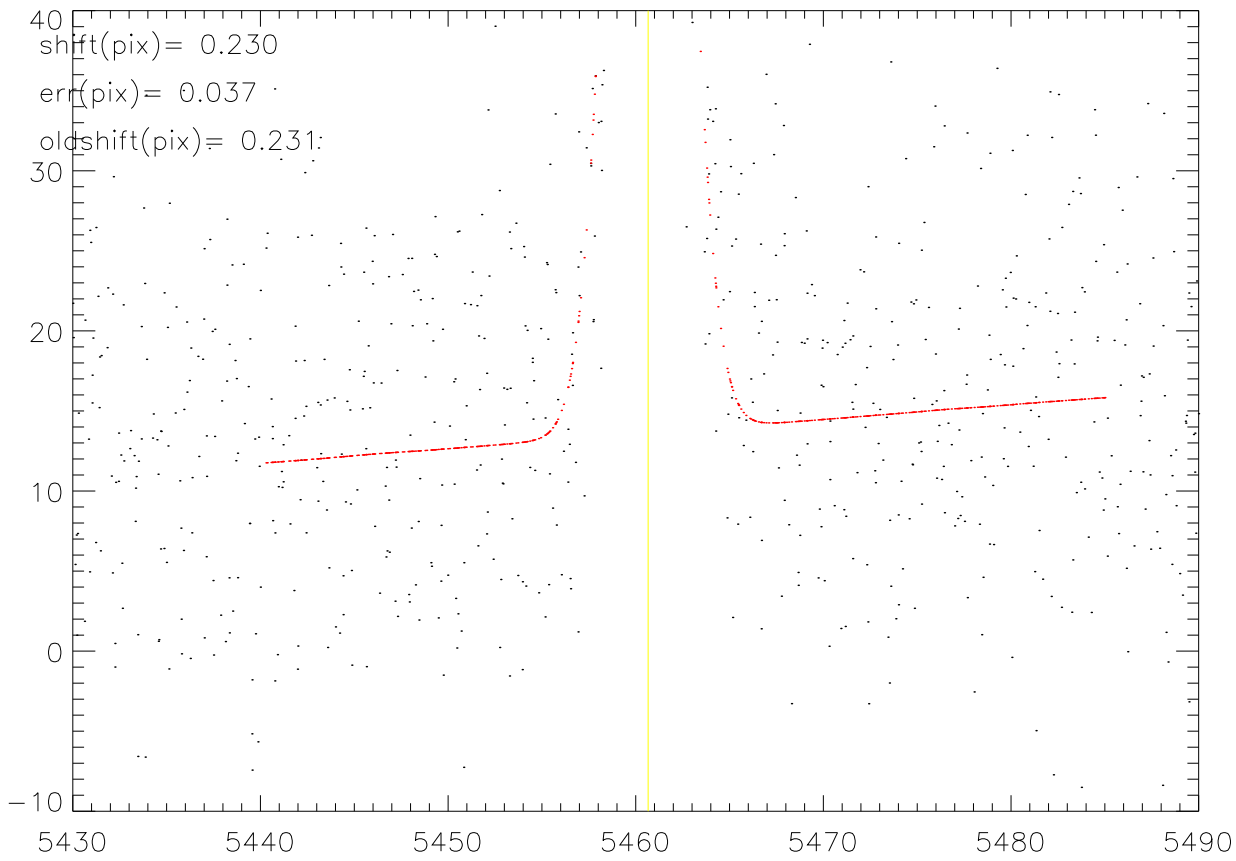

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014568.fit
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 0.830
Max value = 0.968
Mon Feb 25 03:28:07 2008

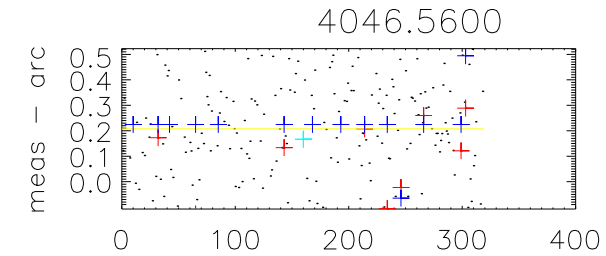

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b1-00014568.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

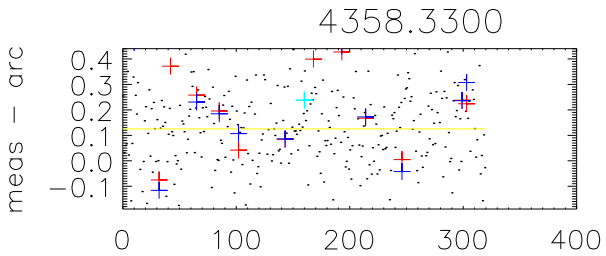

off: 0.70
sig: 0.167
4046.5600
4358.3300
off: 0.24
sig: 0.049
5460.9400
off: 0.23
sig: 0.032
5577.3390
off: 0.23
sig: 0.006
5889.9500
off: 0.28
sig: 0.020
5895.9240
off: 0.32
sig: 0.025

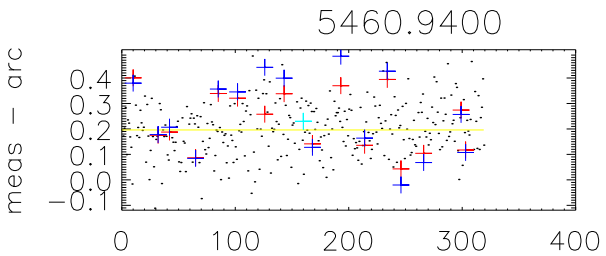

shift(pix)= 0.167
err(pix)= 0.224
oldshift(pix)= 0.701
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

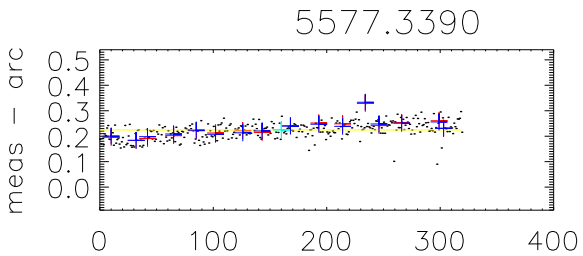

shift(pix)= 0.238
err(pix)= 0.056
oldshift(pix)= 0.240
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

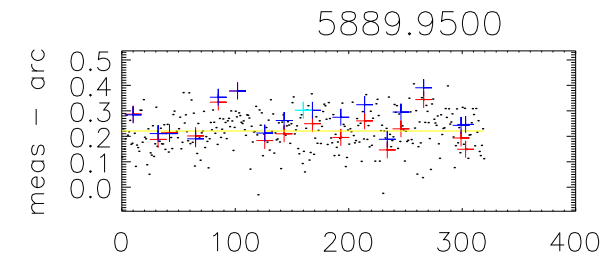

shift(pix)= 0.230
err(pix)= 0.037
oldshift(pix)= 0.231
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

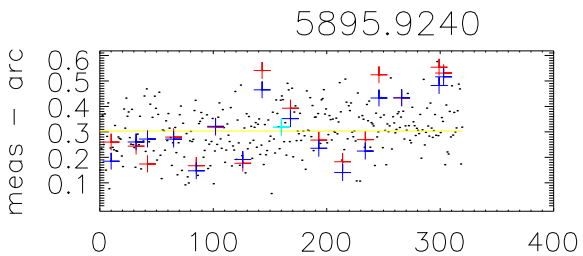

4046.5600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

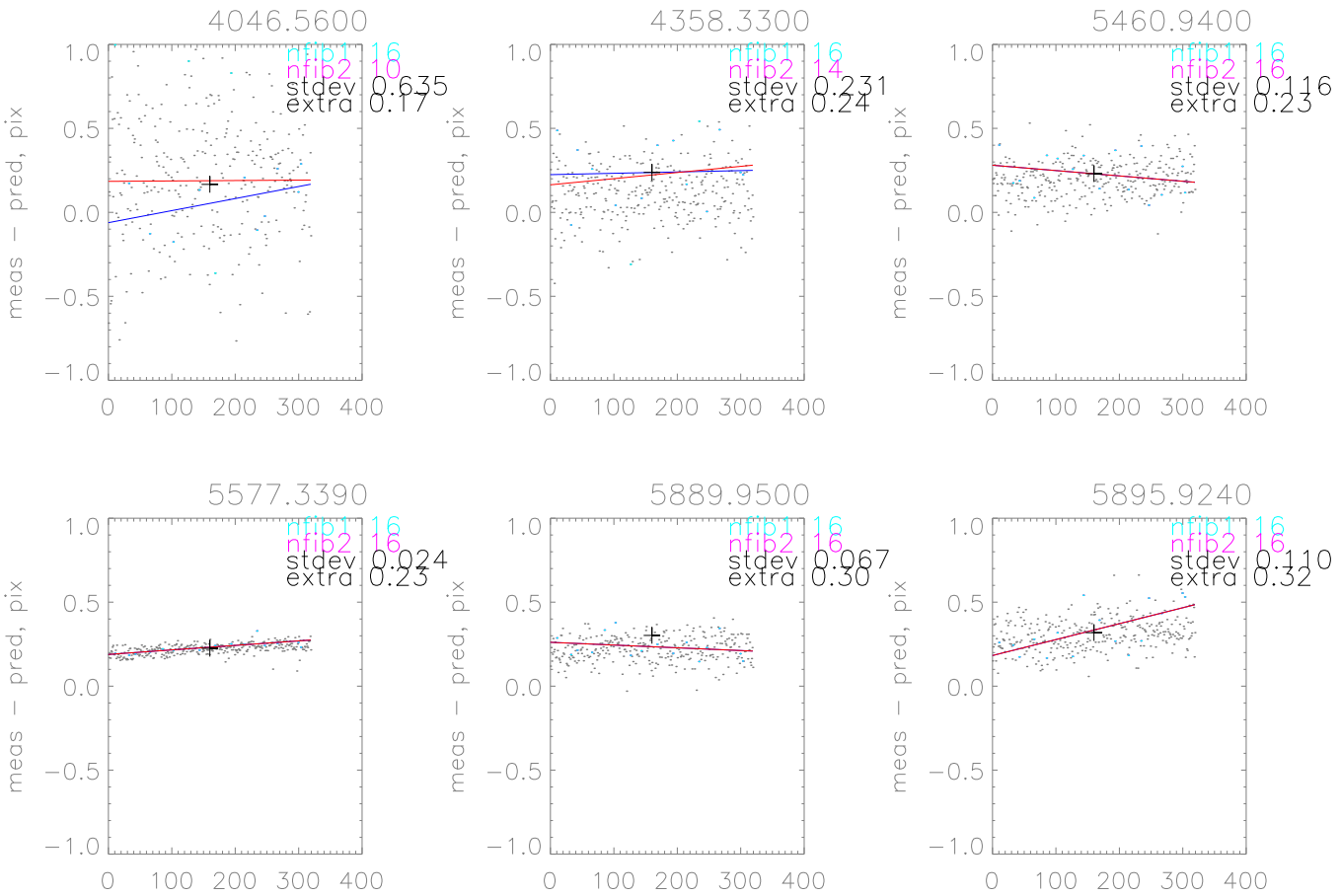

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

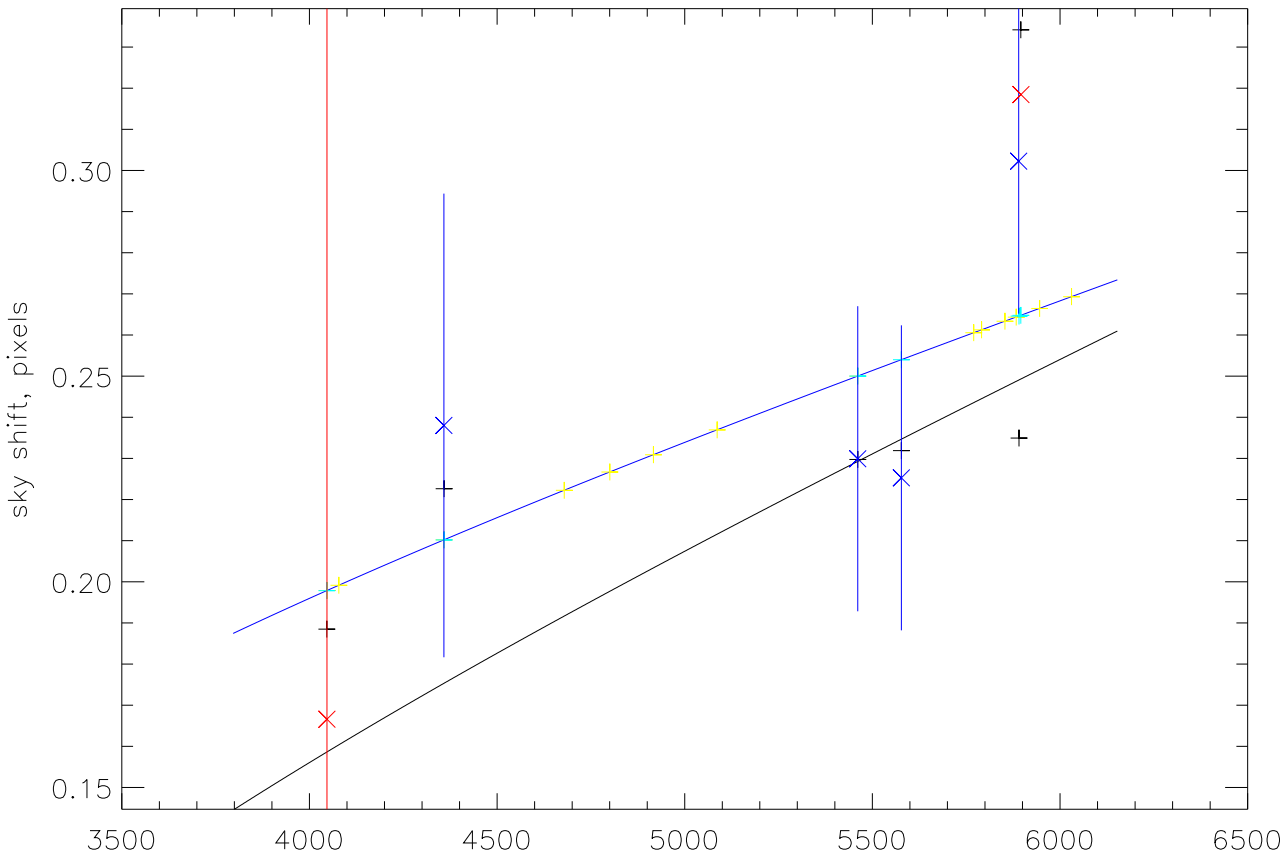

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

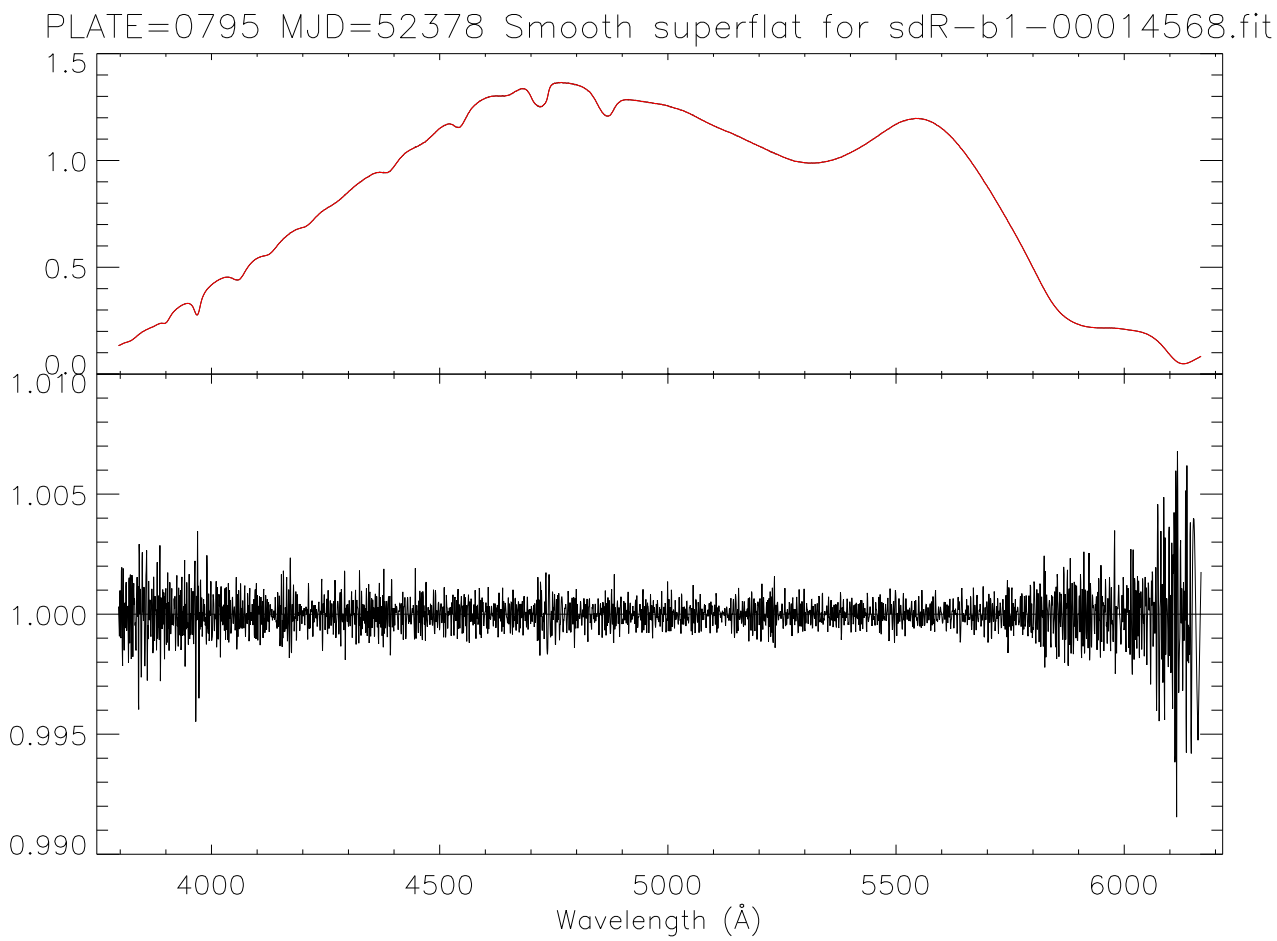

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

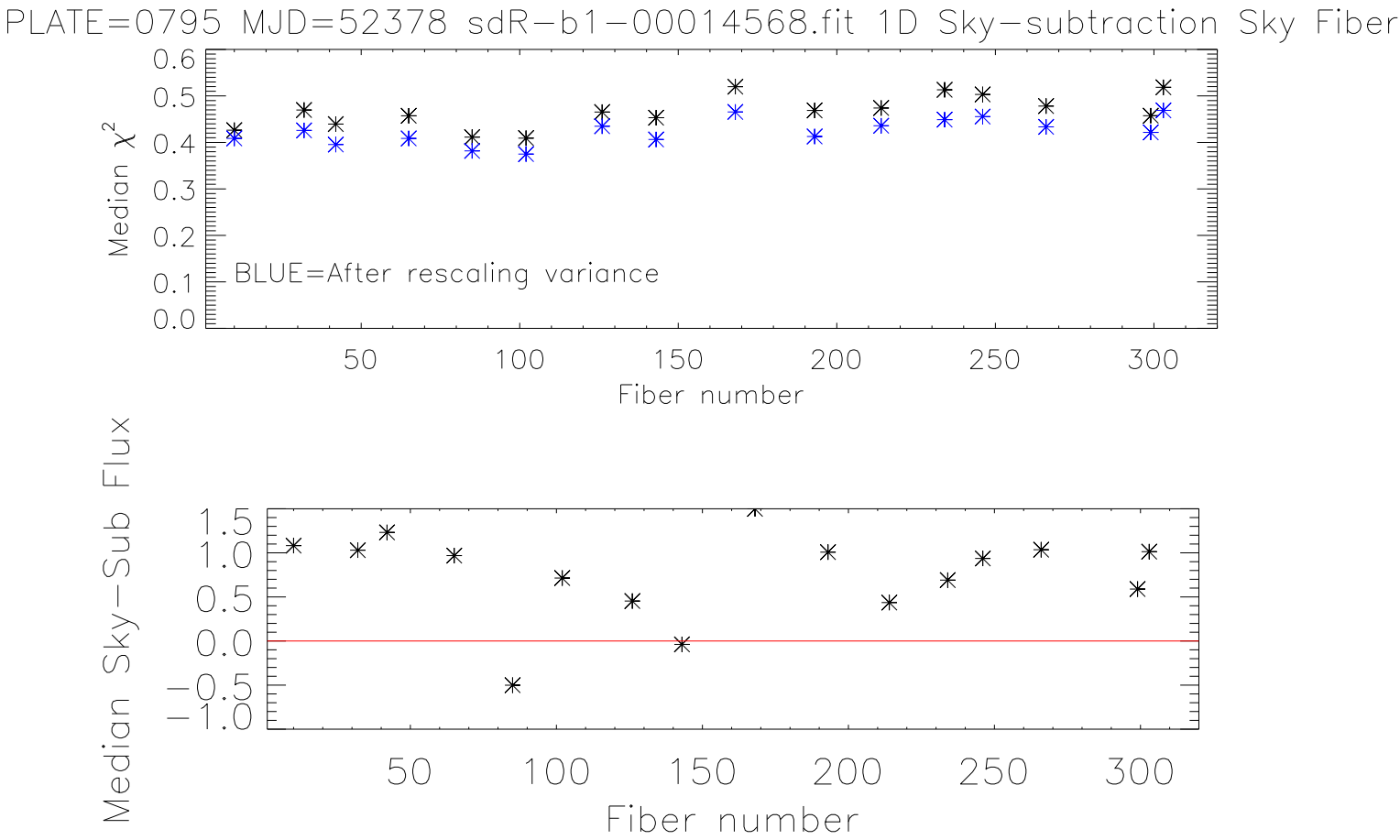

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

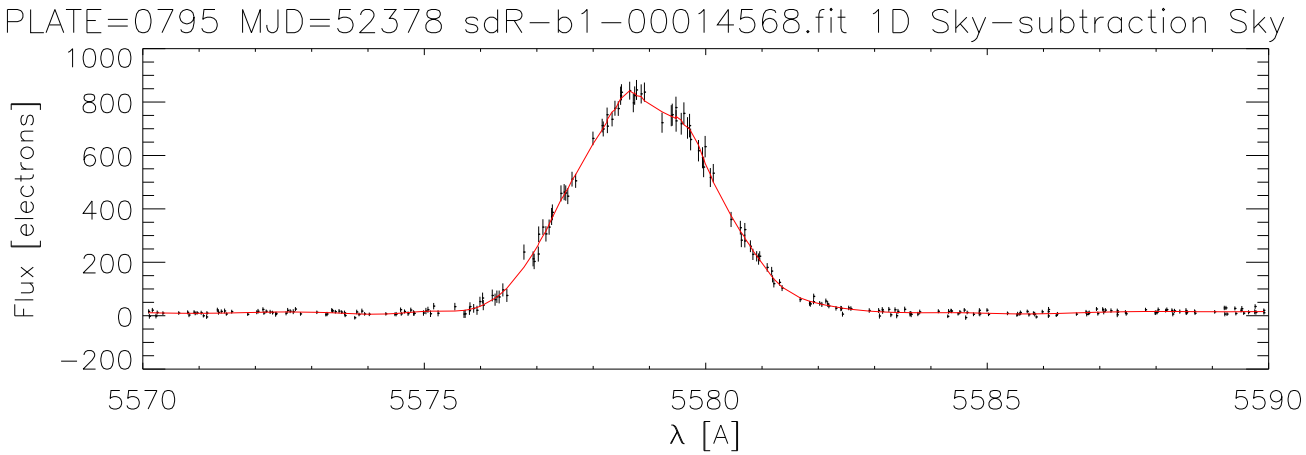

4046.5600
nfib1 16
nfib2 10
stdev 0.635
extra 0.17
4358.3300
nfib1 16
nfib2 14
stdev 0.231
extra 0.24
5460.9400
nfib1 16
nfib2 16
stdev 0.116
extra 0.23
5577.3390
nfib1 16
nfib2 16
stdev 0.024
extra 0.23
5889.9500
nfib1 16
nfib2 16
stdev 0.067
extra 0.30
5895.9240
nfib1 16
nfib2 16
stdev 0.110
extra 0.32
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

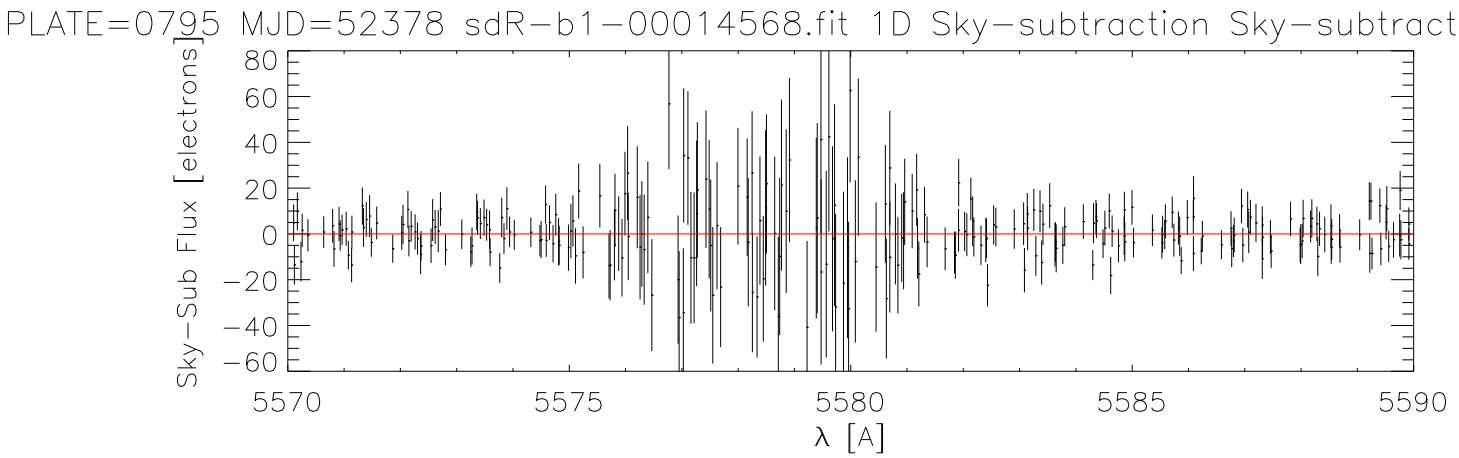

sky shift, pixels
0.30
0.25
0.20
0.15
3500
4000
4500
5000
5500
6000
6500

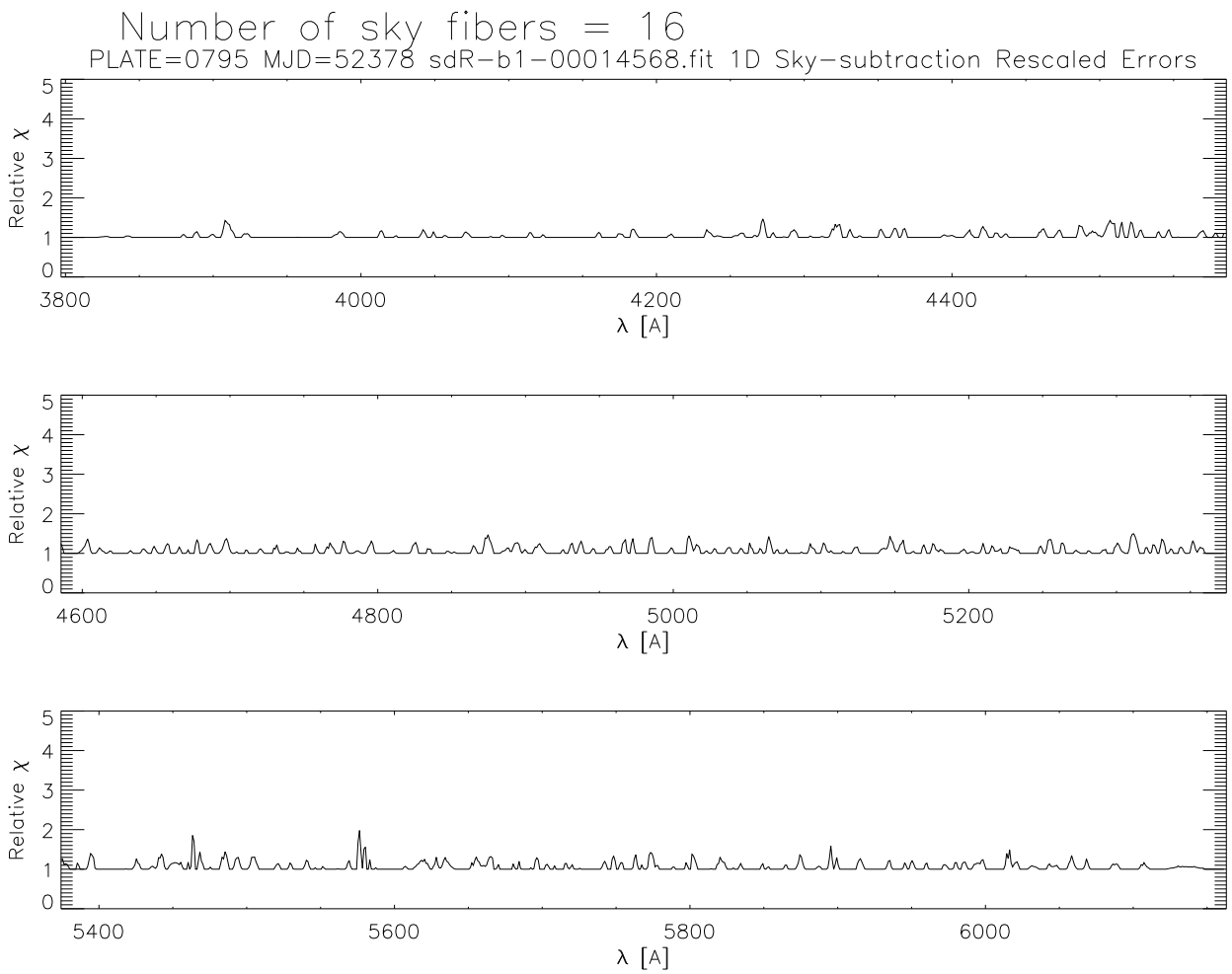
es= −0.0000

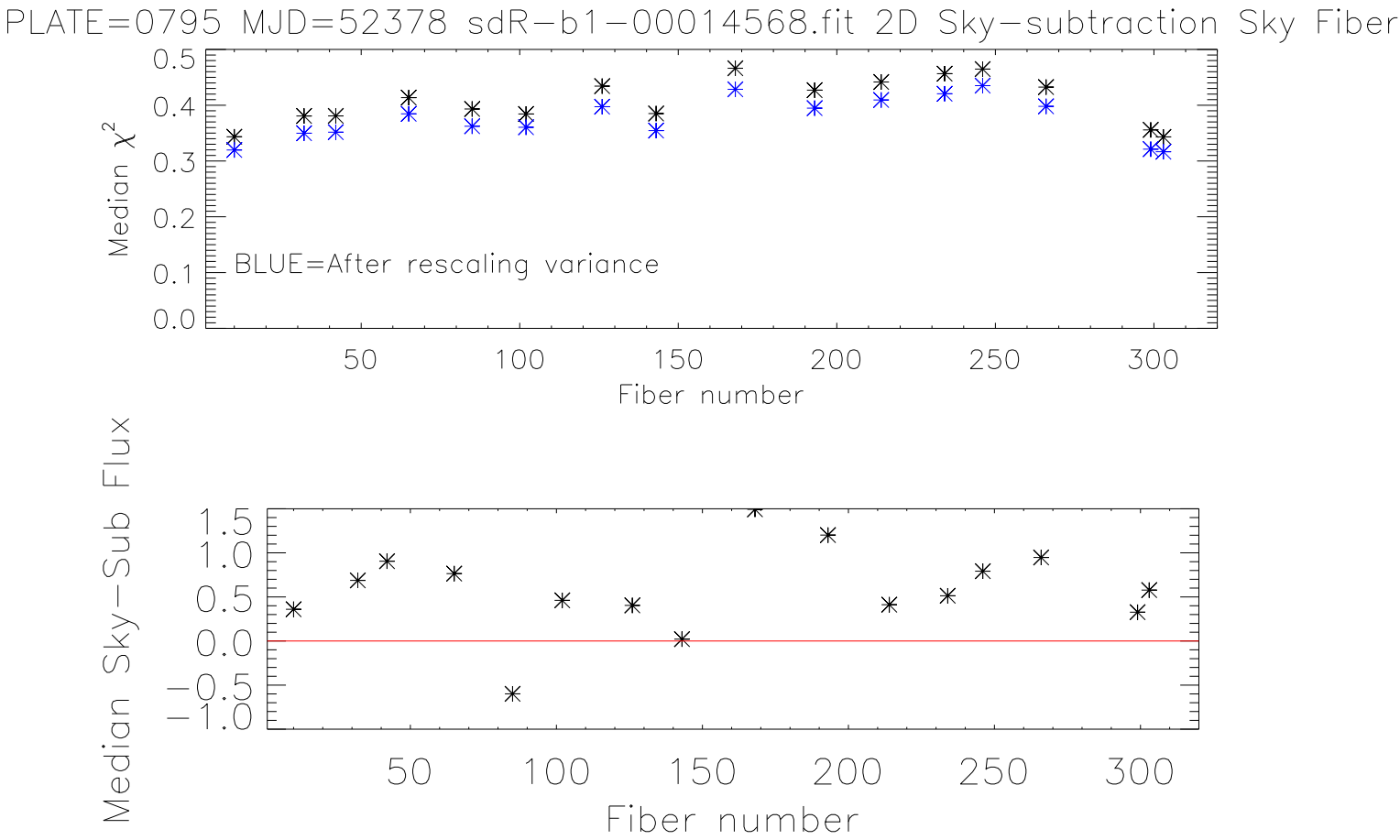

PLATE=0795 MJD=52378 Smooth superflat for sdR−b1−00014568.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

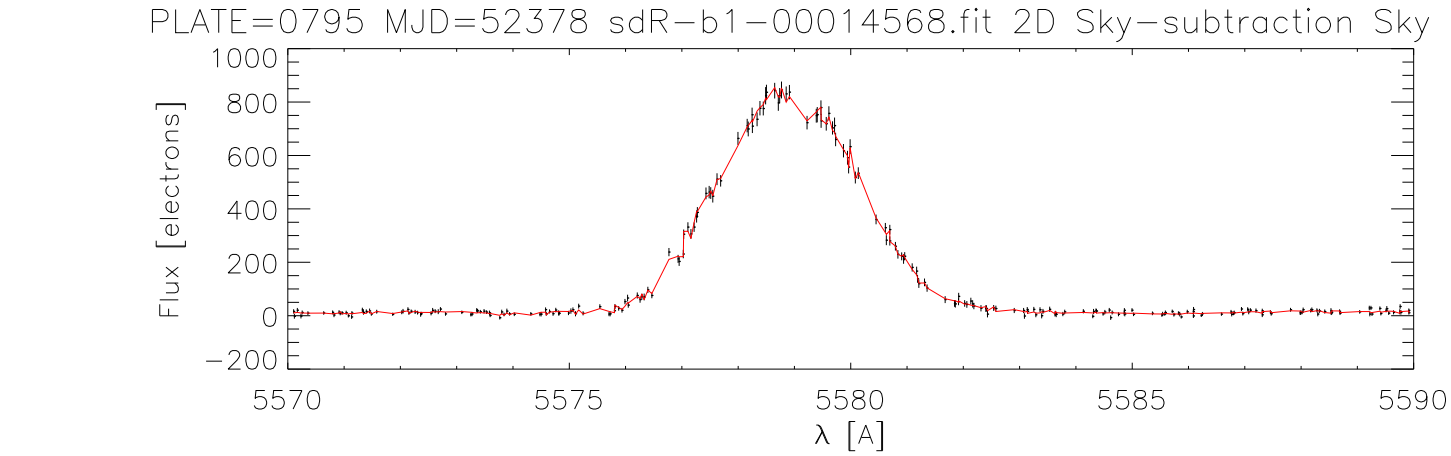

PLATE=0795 MJD=52378 sdR-b1-00014568.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

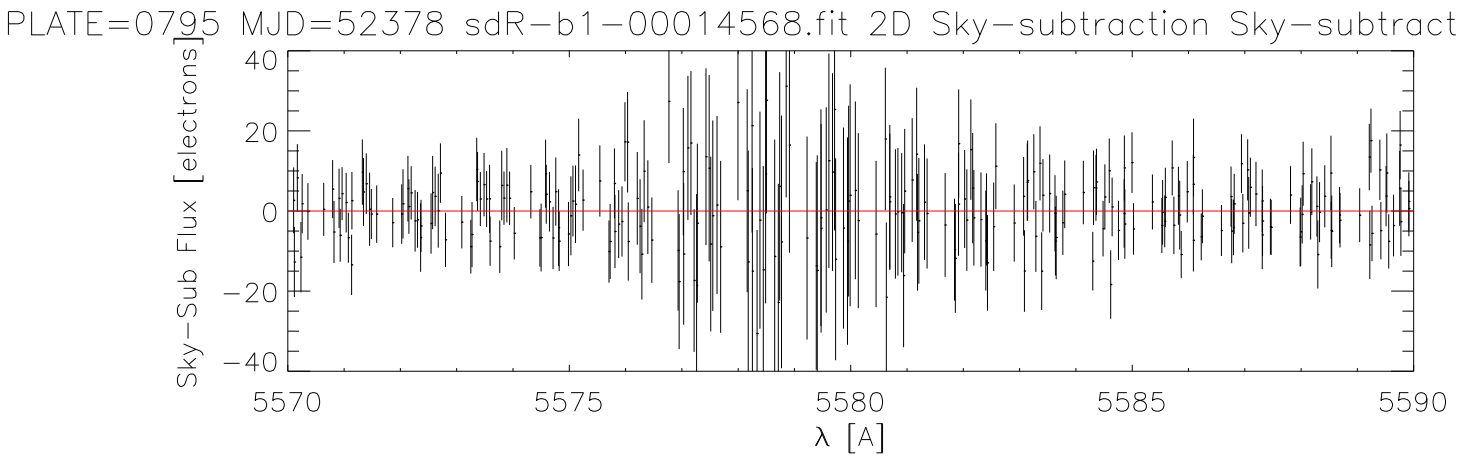

PLATE=0795 MJD=52378 sdR-b1-00014568.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

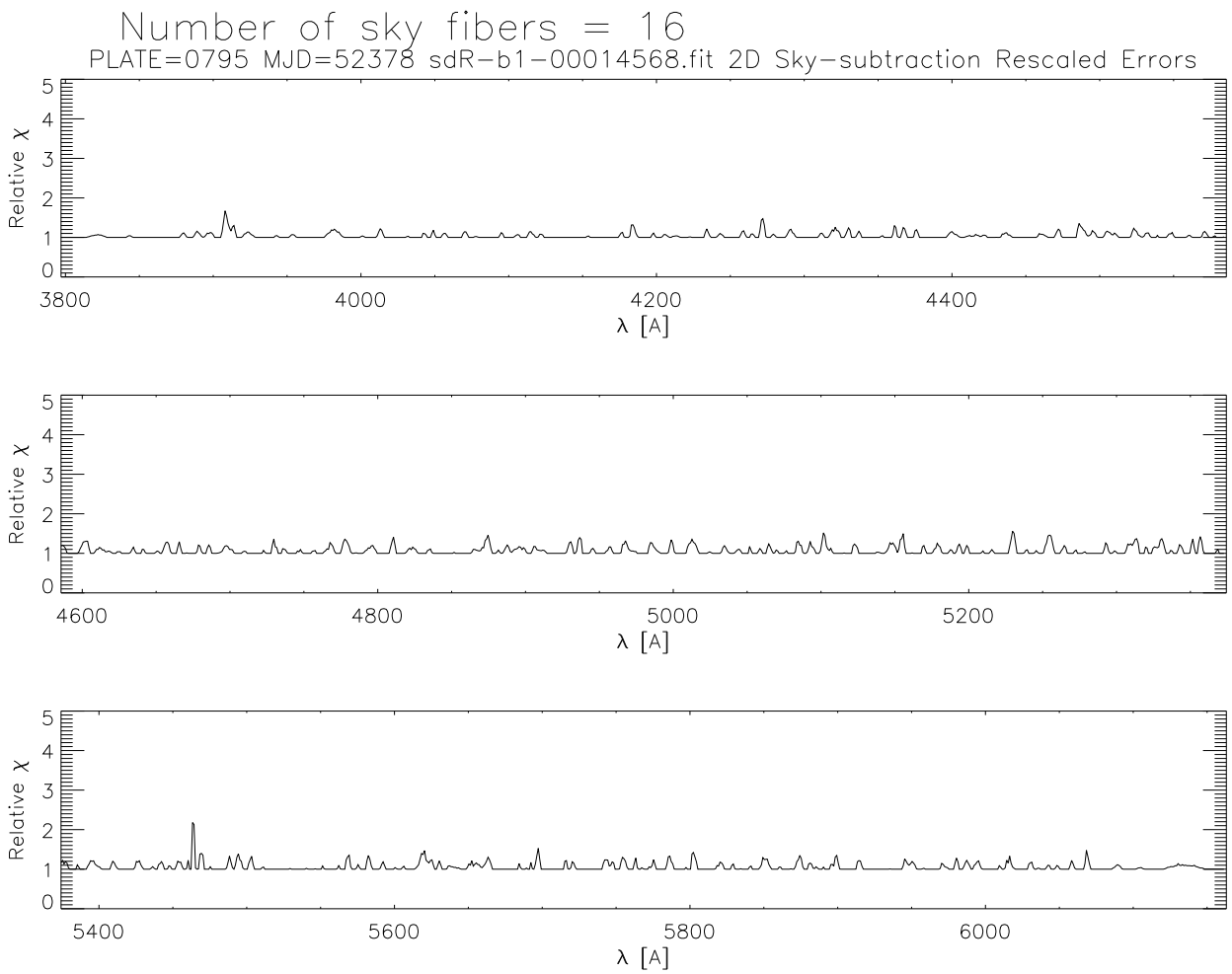

PLATE=0795 MJD=52378 sdR-b1-00014568.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
-20
-40
-60
5570
5575
5580
5585
5590
λ [A]

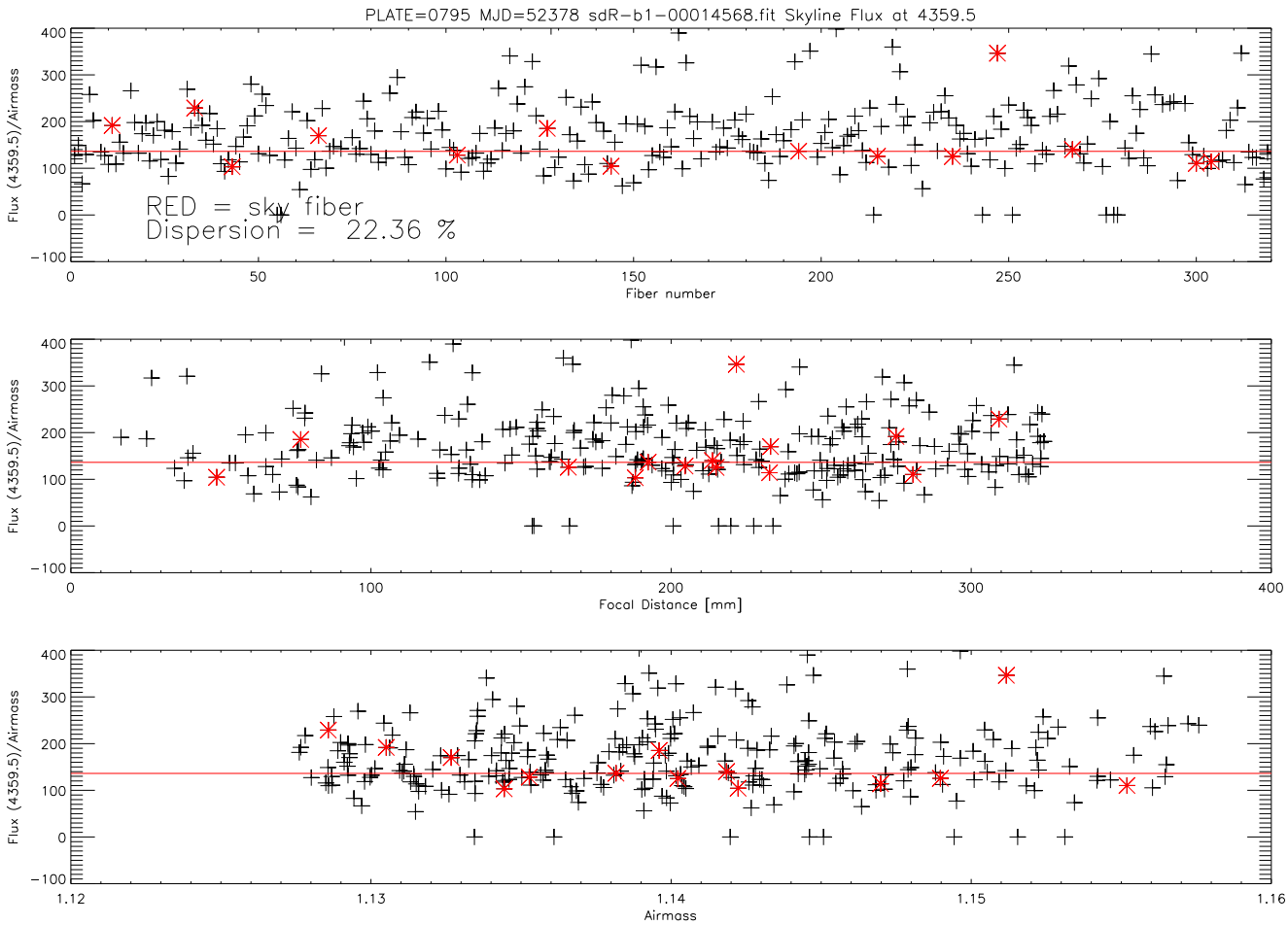

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014568.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

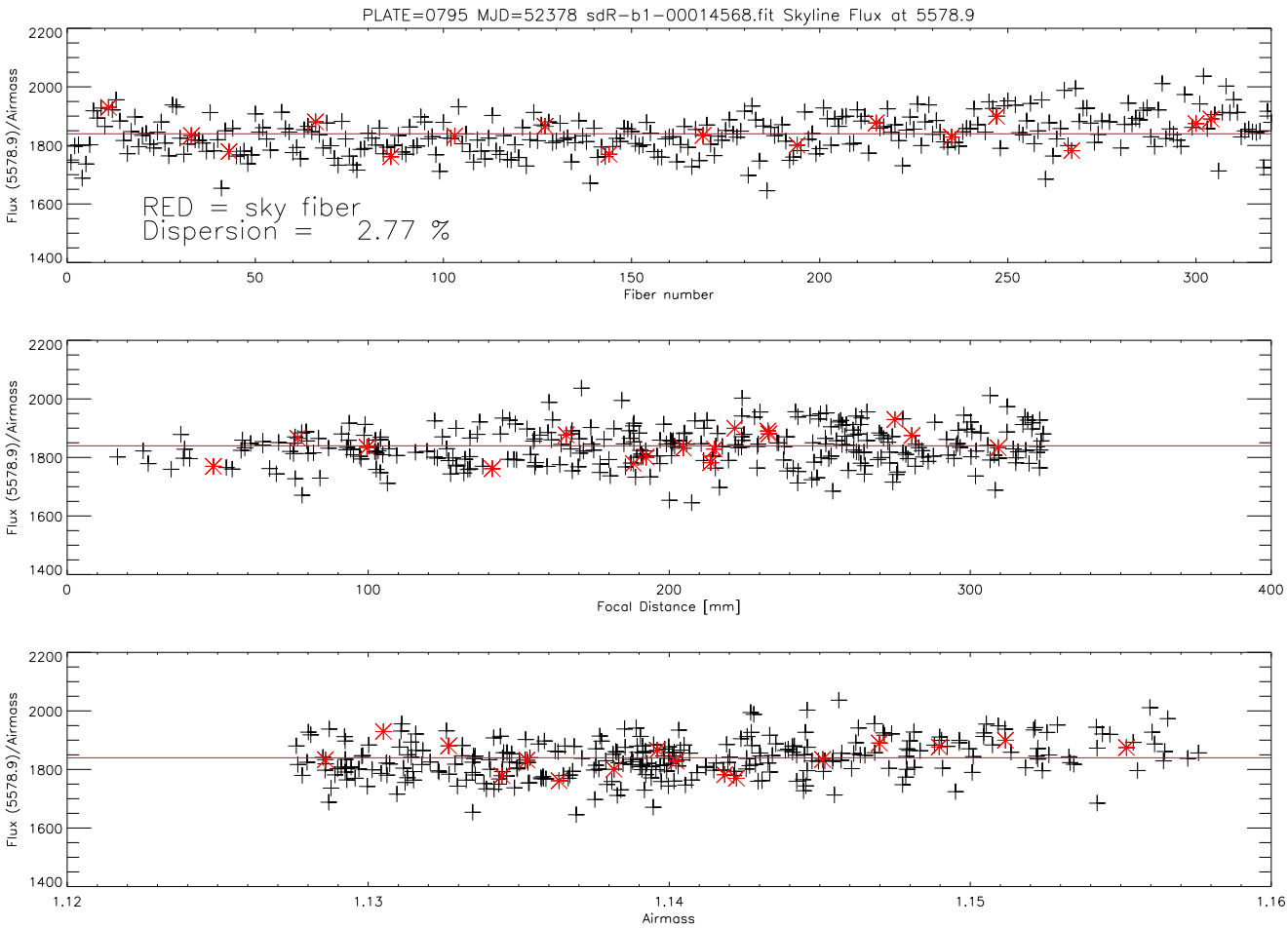

PLATE=0795 MJD=52378 sdR-b1-00014568.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1.0
−0.5
0.0
0.5
1.0
1.5
50
100
150
200
250
300
Fiber number

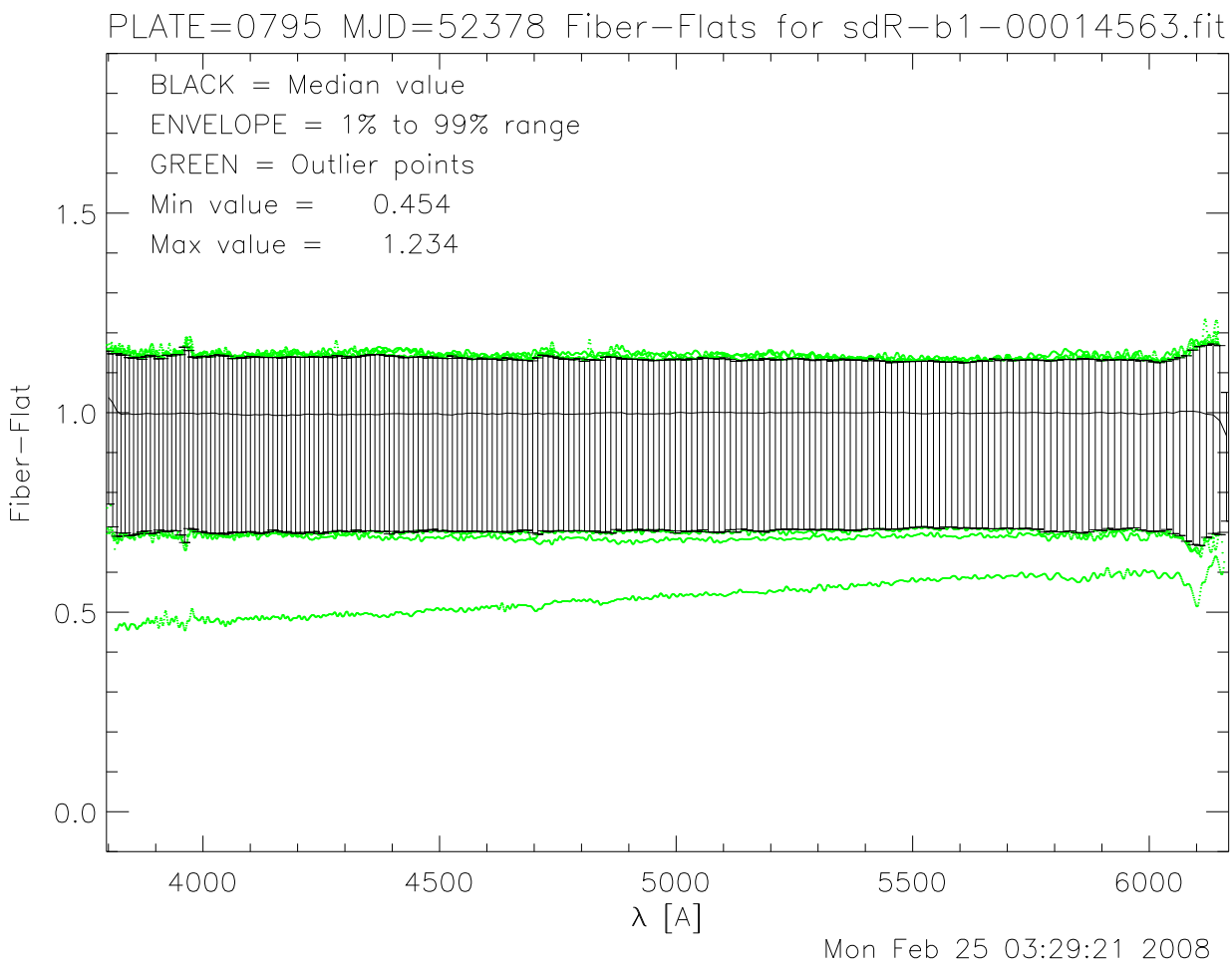

PLATE=0795 MJD=52378 sdR-b1-00014568.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

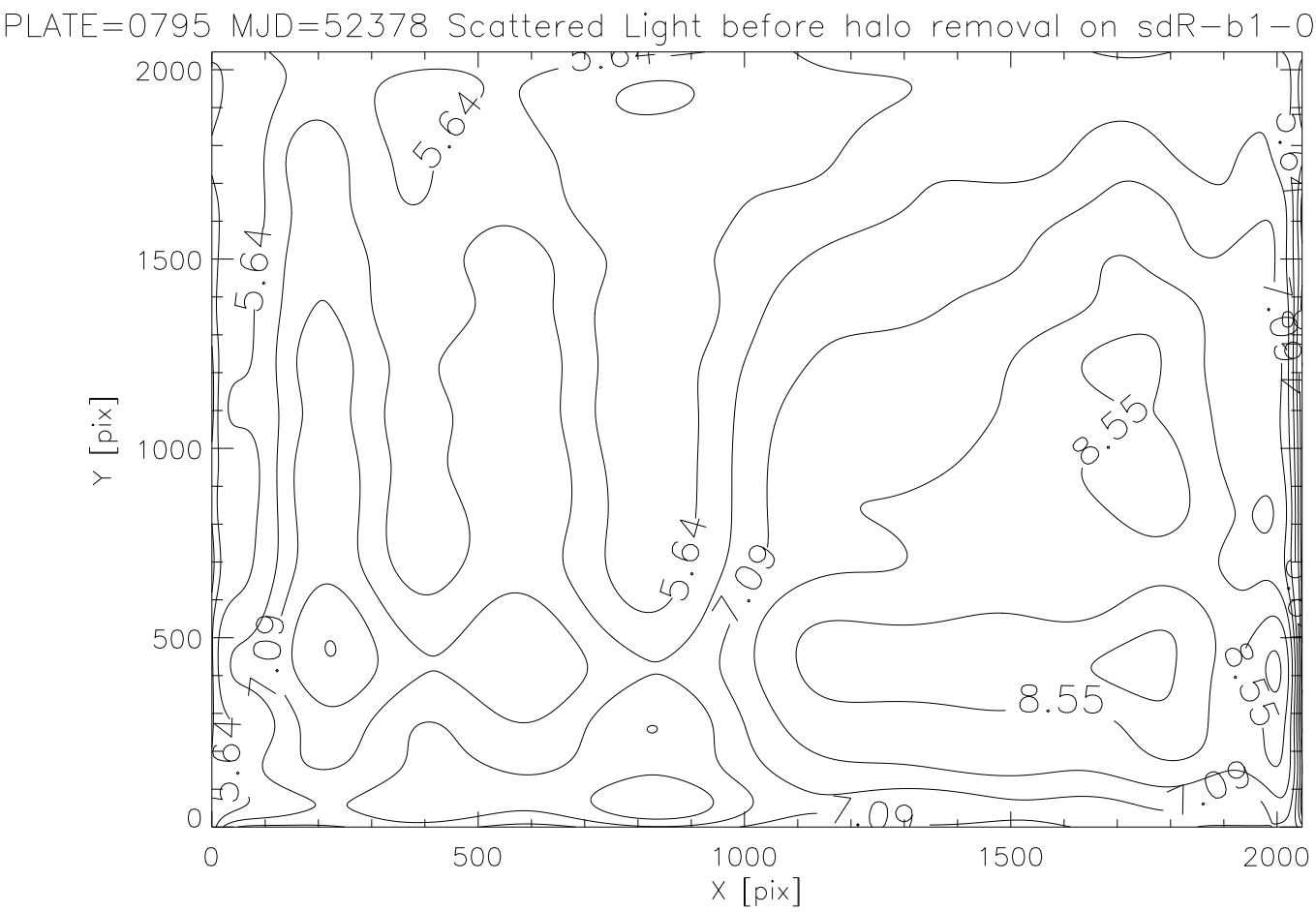

PLATE=0795 MJD=52378 sdR-b1-00014568.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
40
20
0
-20
-40
5570
5575
5580
5585
5590
λ [A]

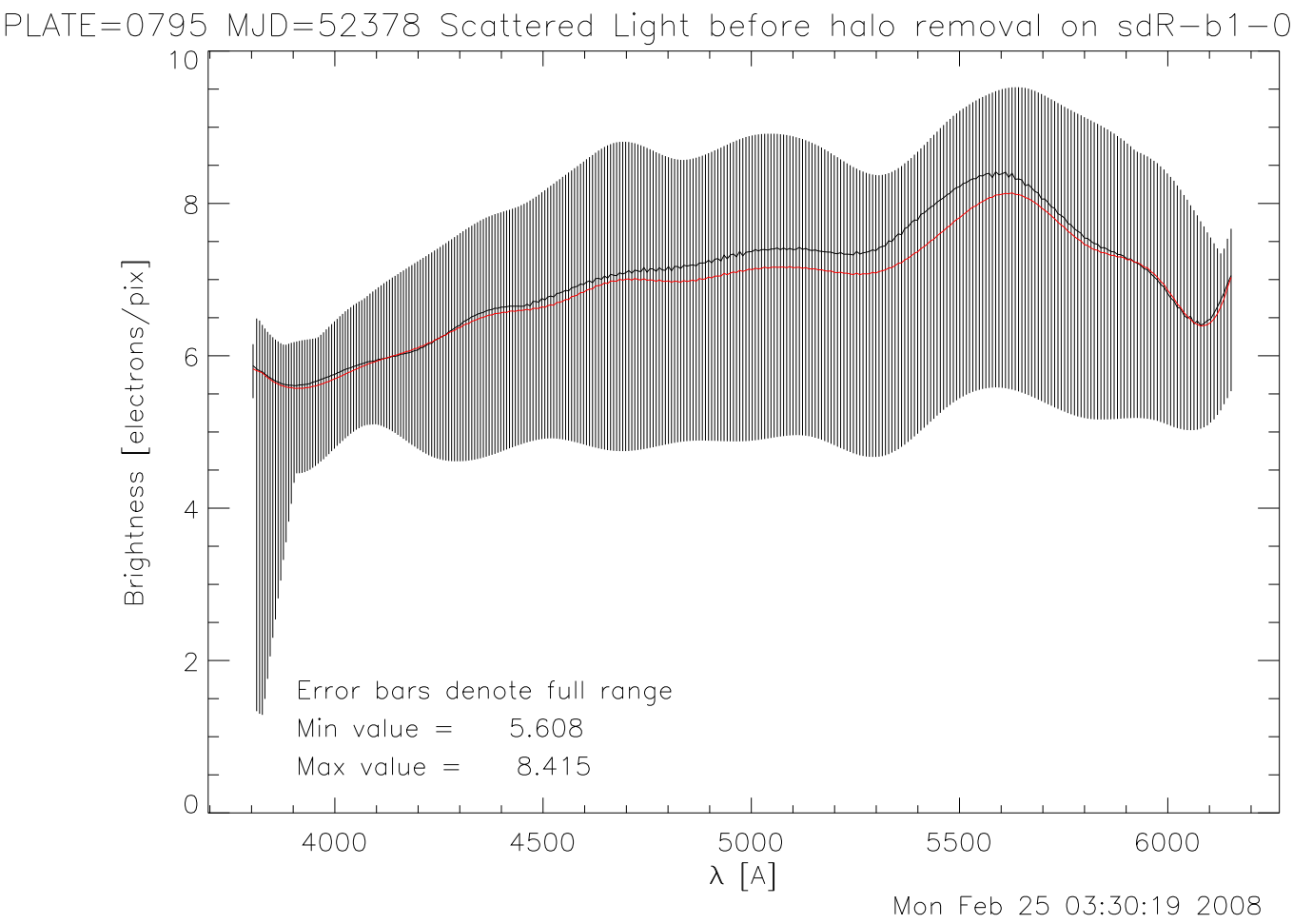

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014568.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

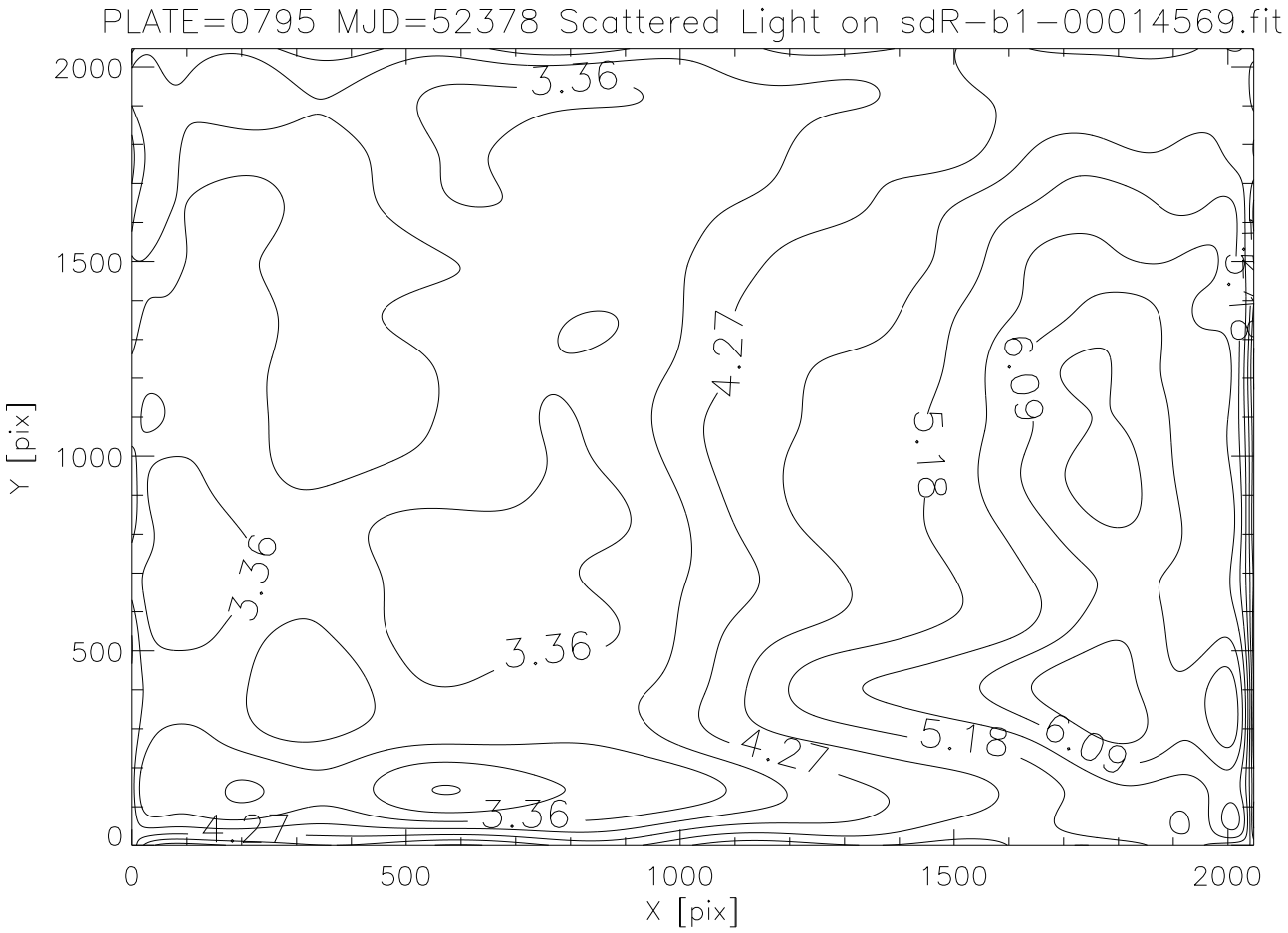

PLATE=0795 MJD=52378 sdR-b1-00014568.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 22.36 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

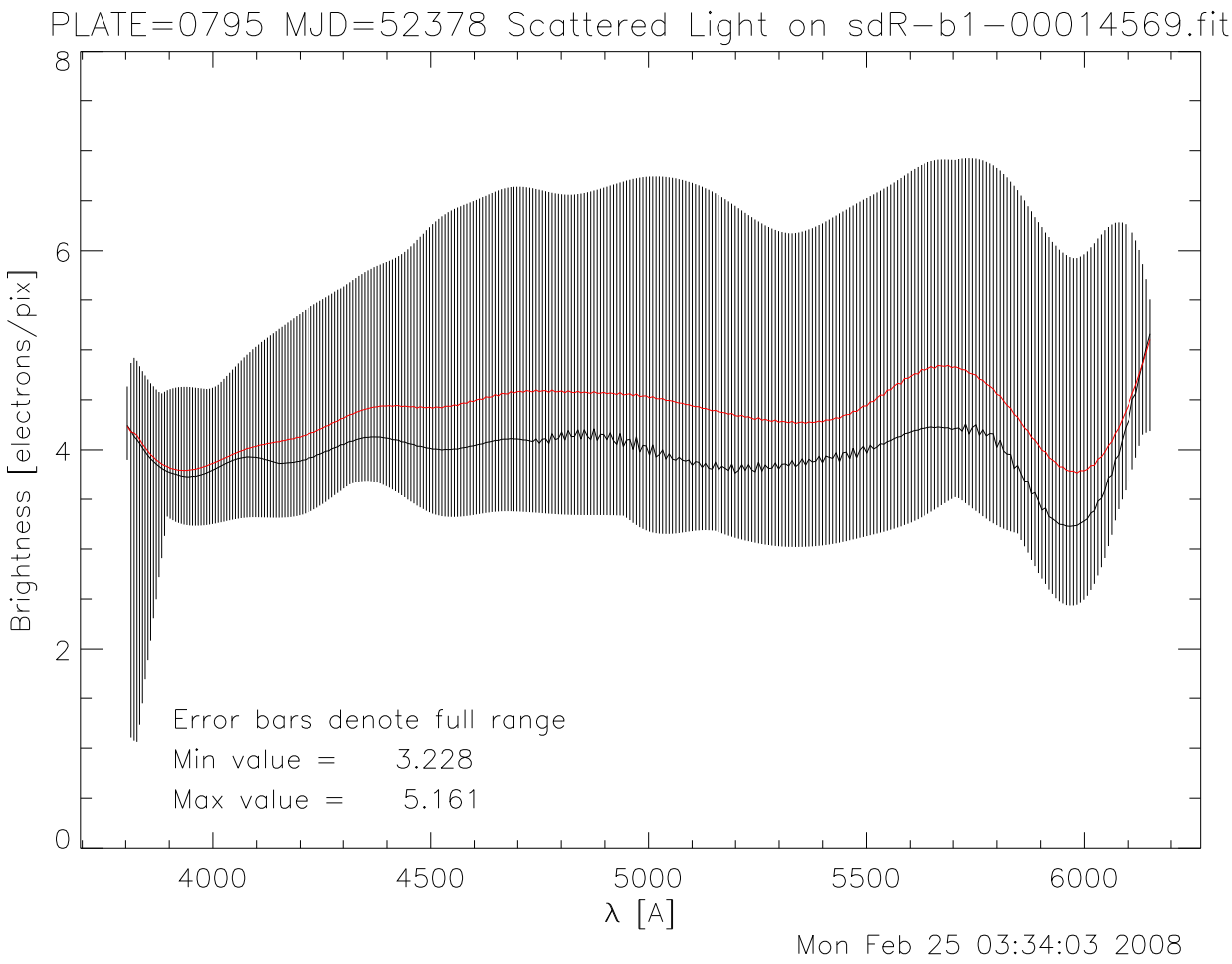

PLATE=0795 MJD=52378 sdR-b1-00014568.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.77 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

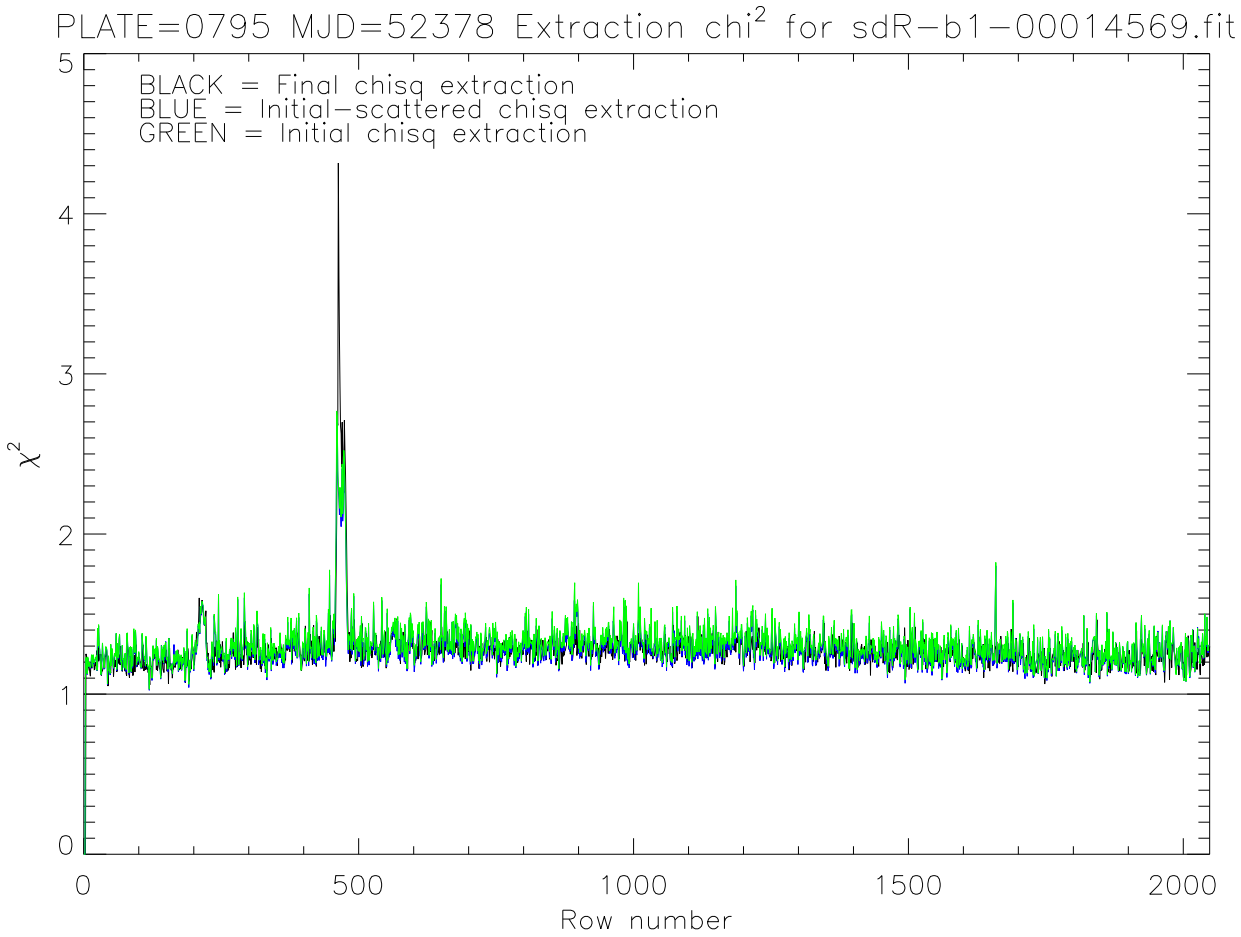

PLATE=0795 MJD=52378 Fiber-Flats for sdR-b1-00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.454
Max value = 1.234
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:29:21 2008

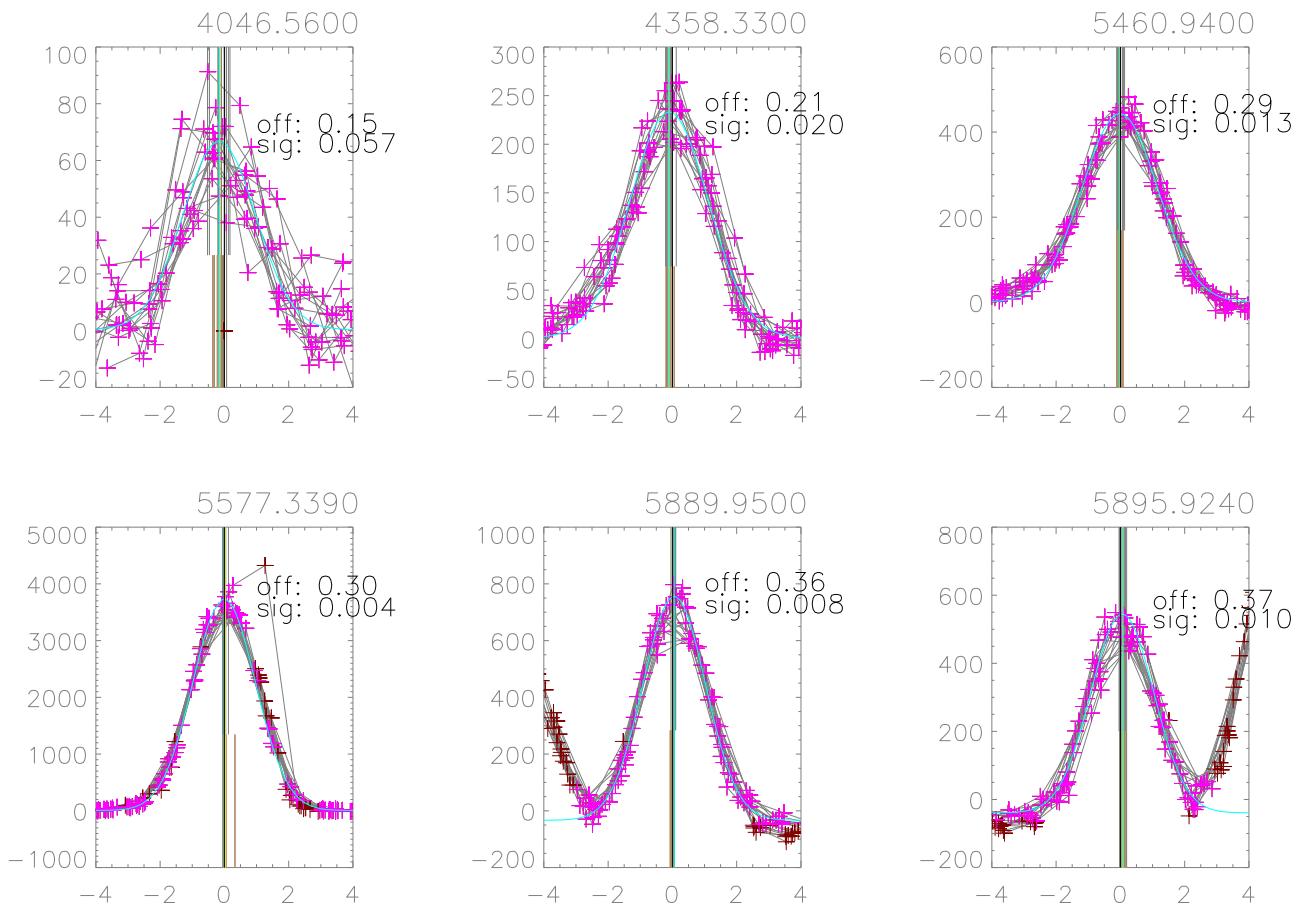

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−b1−00014569.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
7.09
8.55

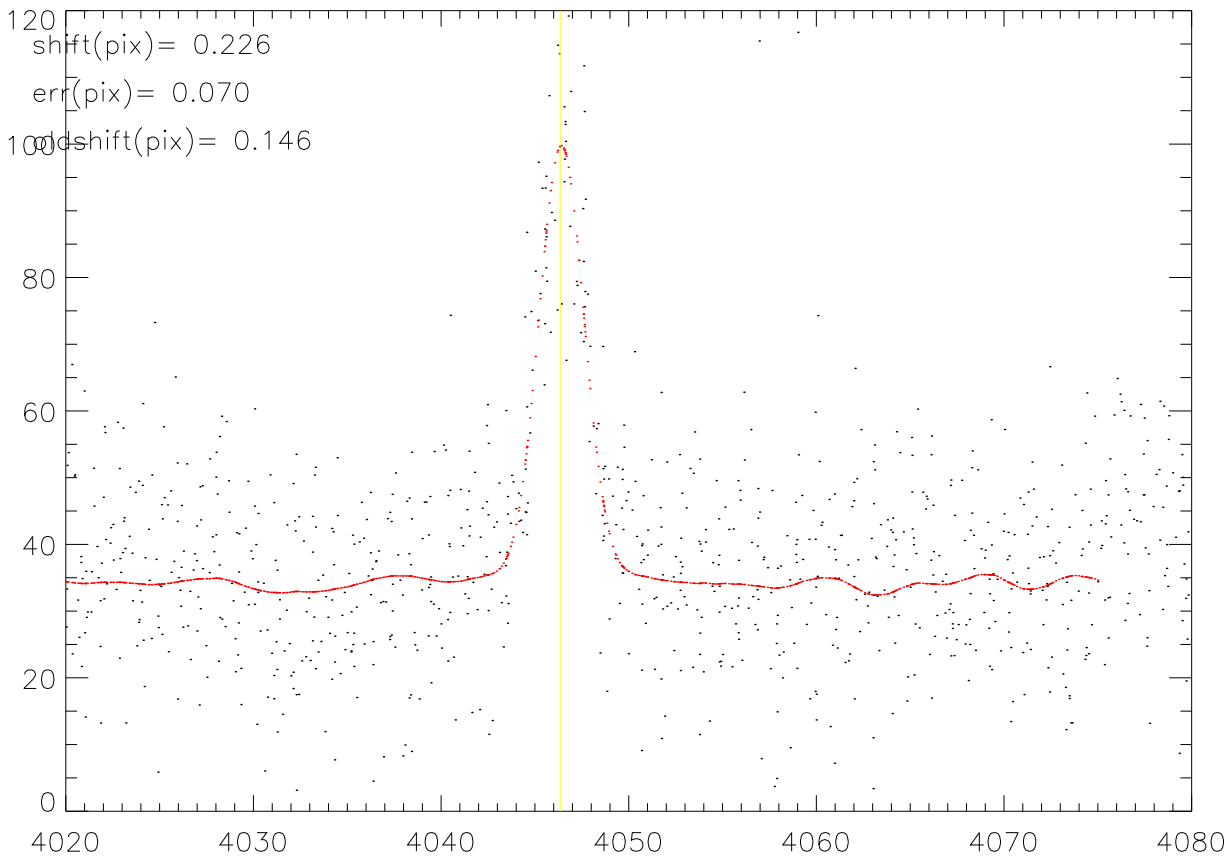

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b1-00014569.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.608
Max value = 8.415
Mon Feb 25 03:30:19 2008

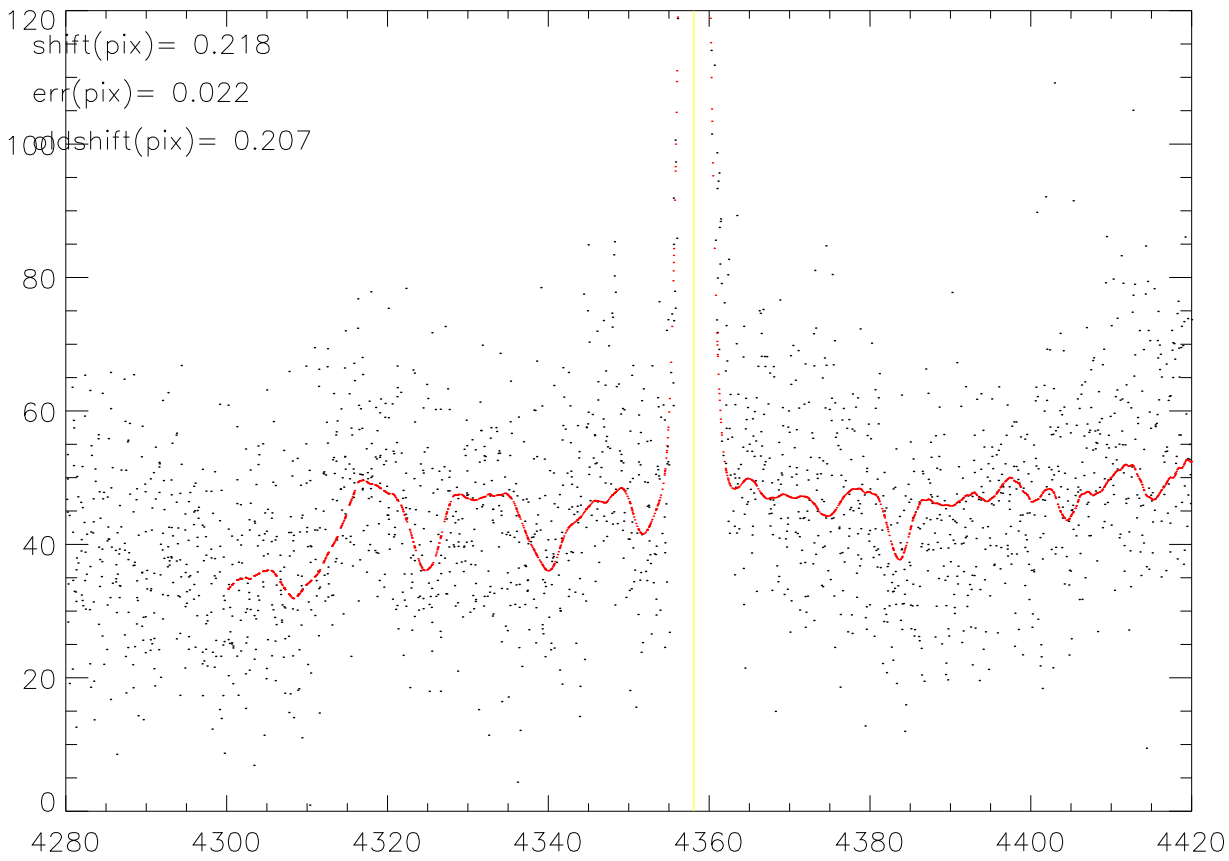

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014569.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.36
4.27
5.18
6.09

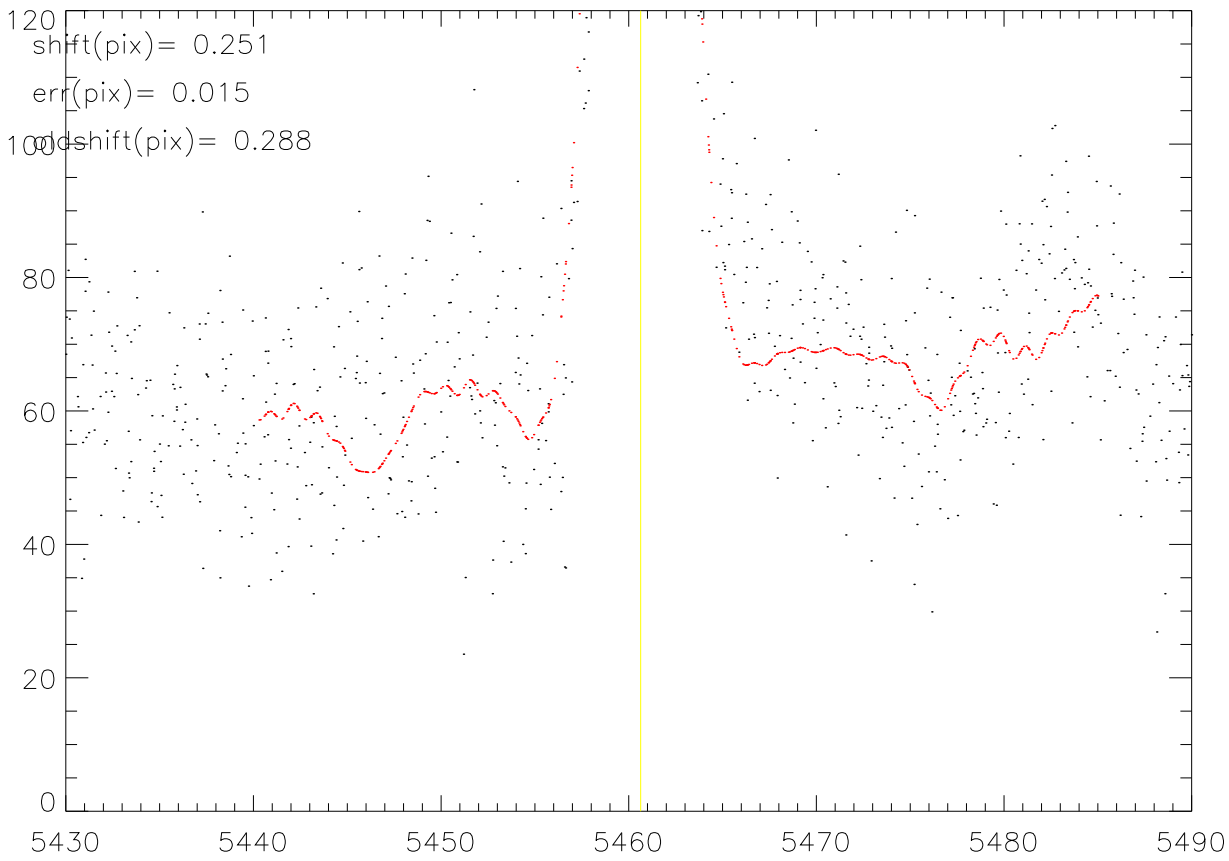

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014569.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.228
Max value = 5.161
Mon Feb 25 03:34:03 2008

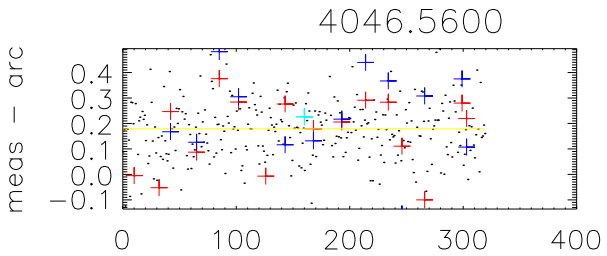

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b1-00014569.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

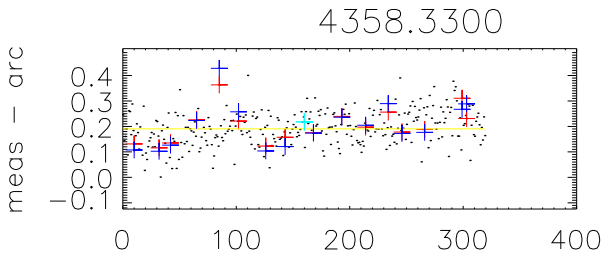

4046.5600
off: 0.15
sig: 0.057
4358.3300
off: 0.21
sig: 0.020
5460.9400
off: 0.29
sig: 0.013
5577.3390
off: 0.30
sig: 0.004
5889.9500
off: 0.36
sig: 0.008
5895.9240
off: 0.37
sig: 0.010

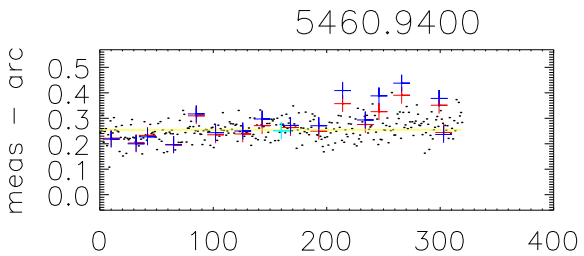

shift(pix)= 0.226
err(pix)= 0.070
oldshift(pix)= 0.146
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

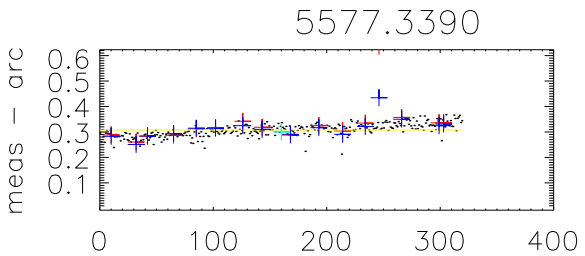

shift(pix)= 0.218
err(pix)= 0.022
oldshift(pix)= 0.207
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

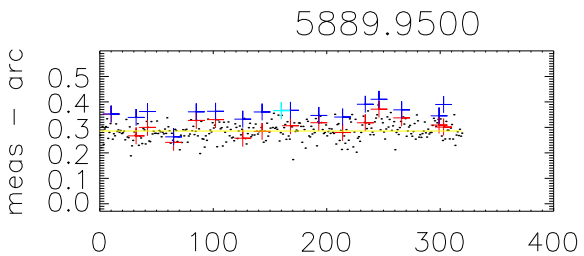

shift(pix)= 0.251
err(pix)= 0.015
oldshift(pix)= 0.288
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

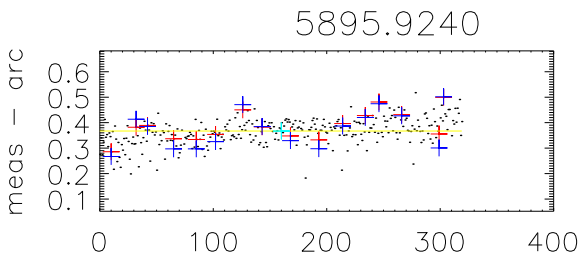

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

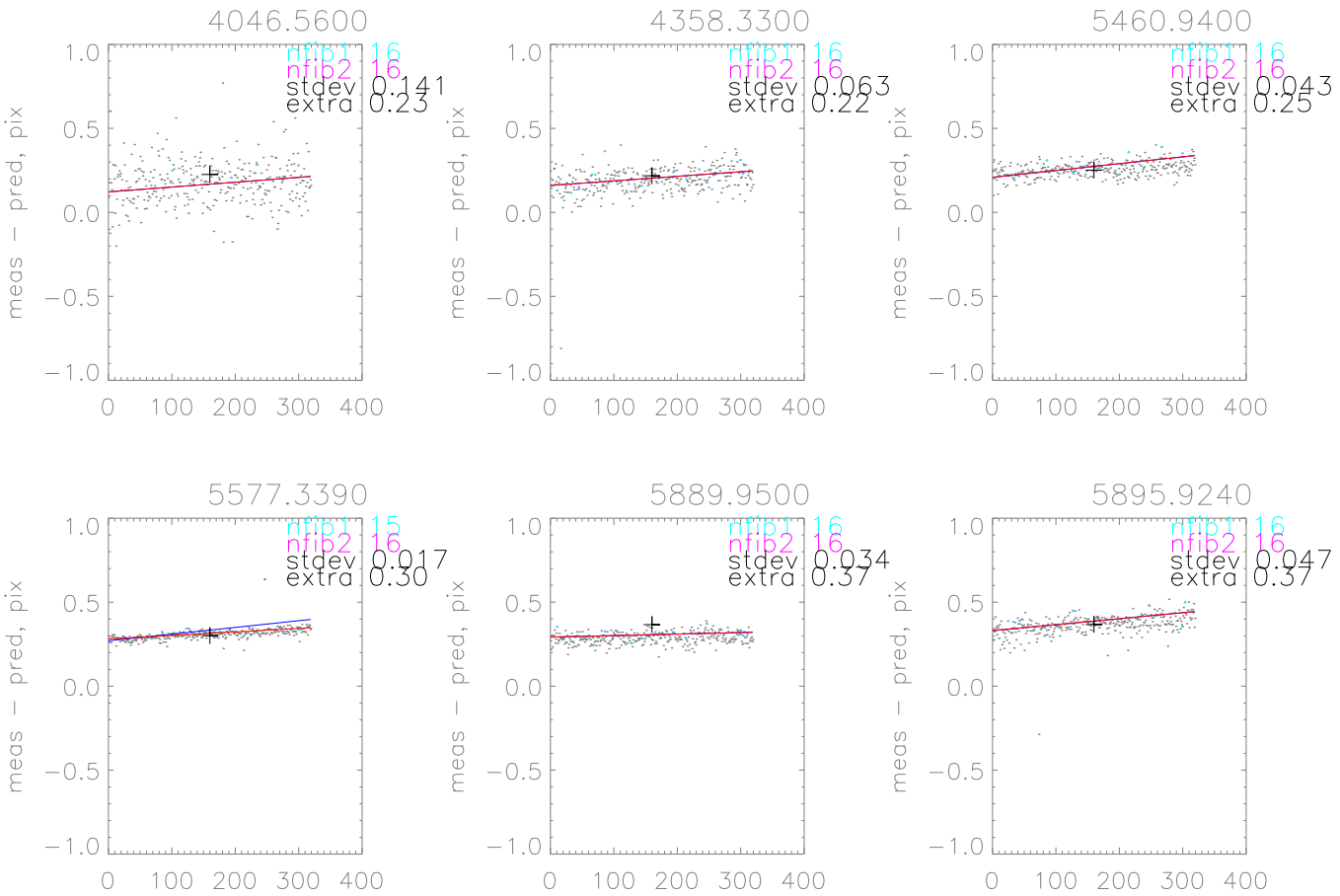

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

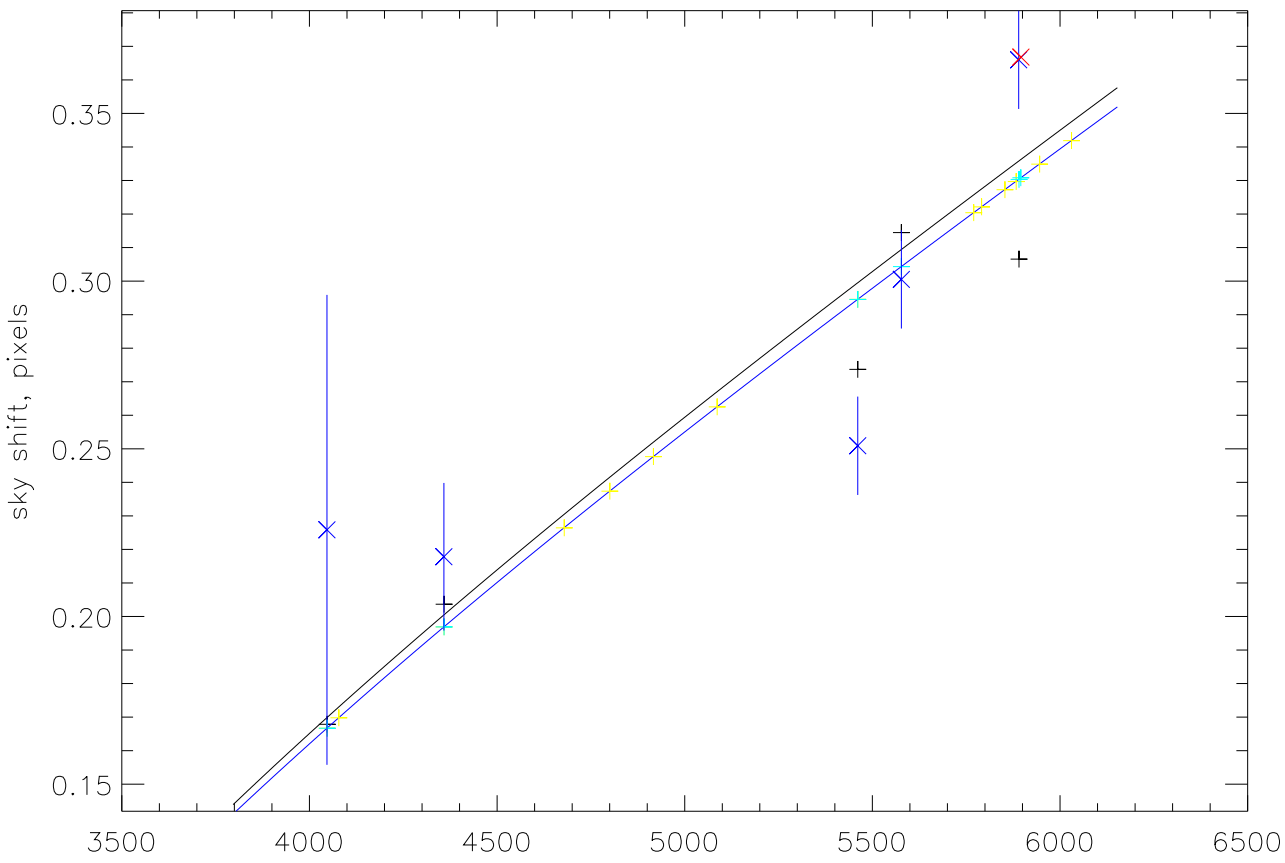

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

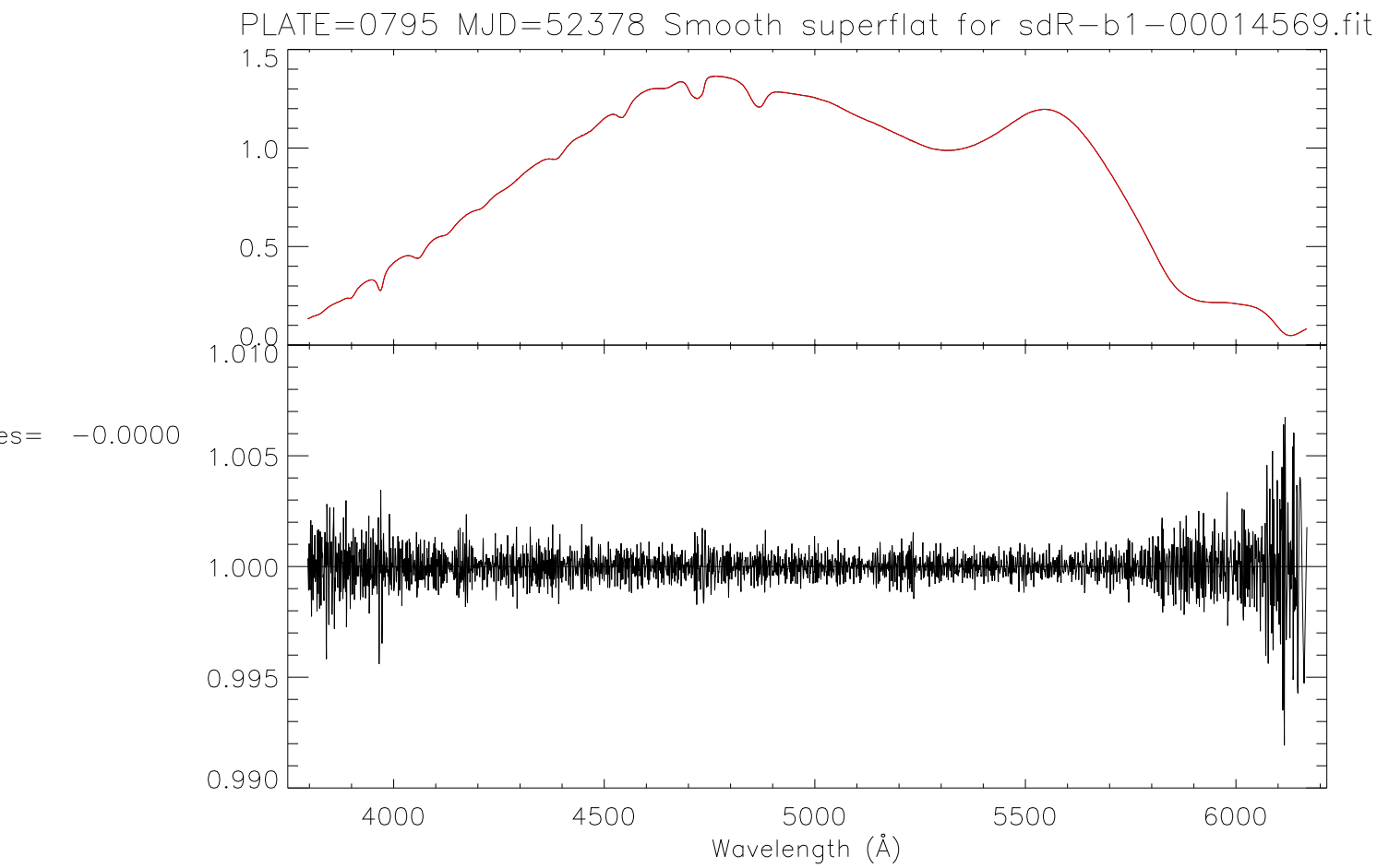

5577.3390
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400


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

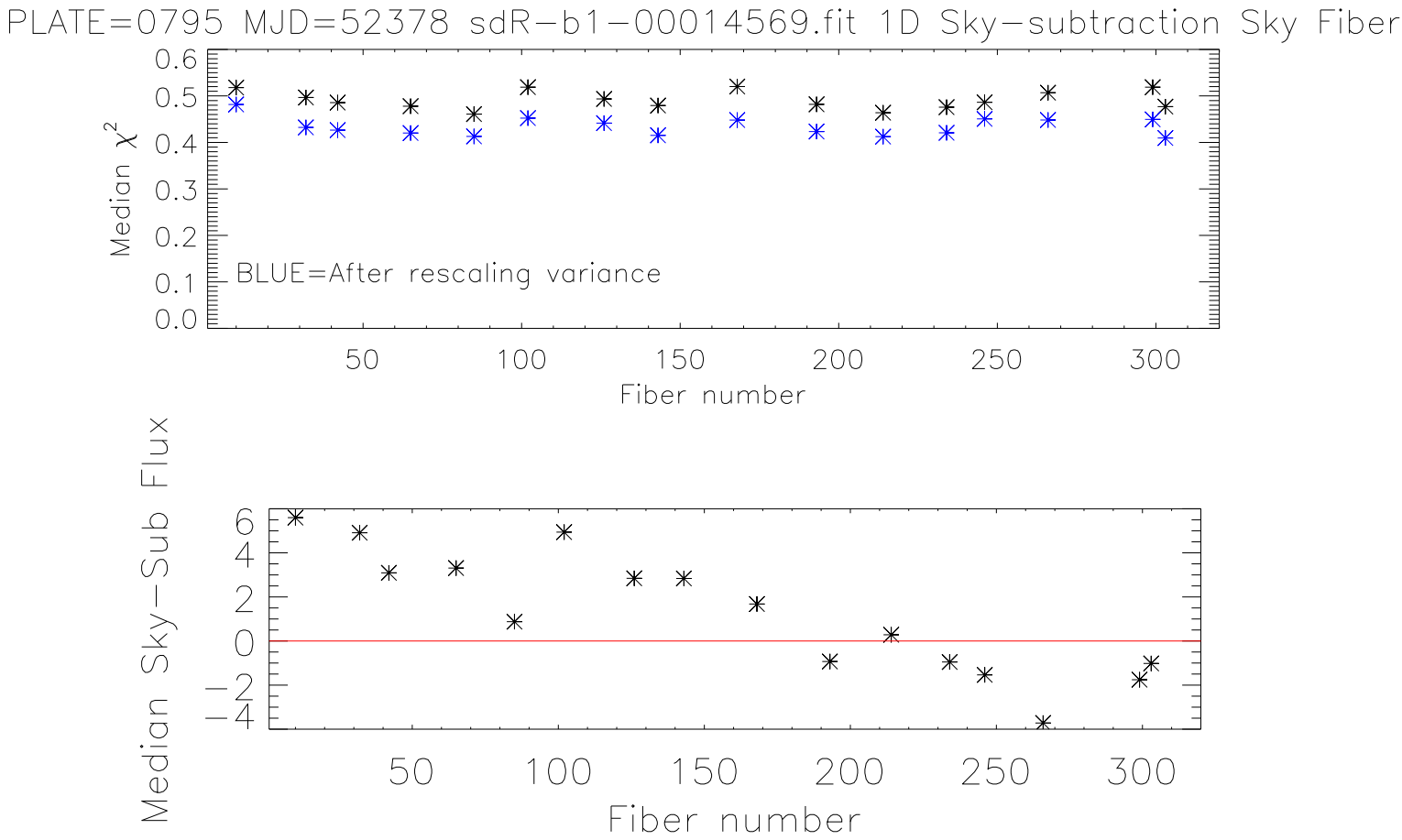

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

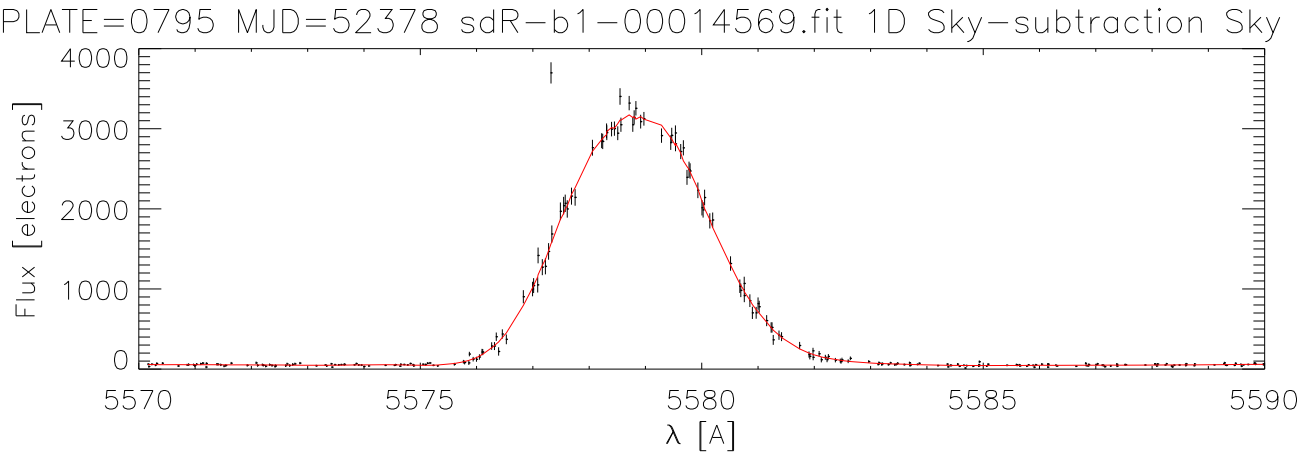

4046.5600
nfib1 16
nfib2 16
stdev 0.141
extra 0.23
4358.3300
nfib1 16
nfib2 16
stdev 0.063
extra 0.22
5460.9400
nfib1 16
nfib2 16
stdev 0.043
extra 0.25
5577.3390
nfib1 15
nfib2 16
stdev 0.017
extra 0.30
5889.9500
nfib1 16
nfib2 16
stdev 0.034
extra 0.37
5895.9240
nfib1 16
nfib2 16
stdev 0.047
extra 0.37
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

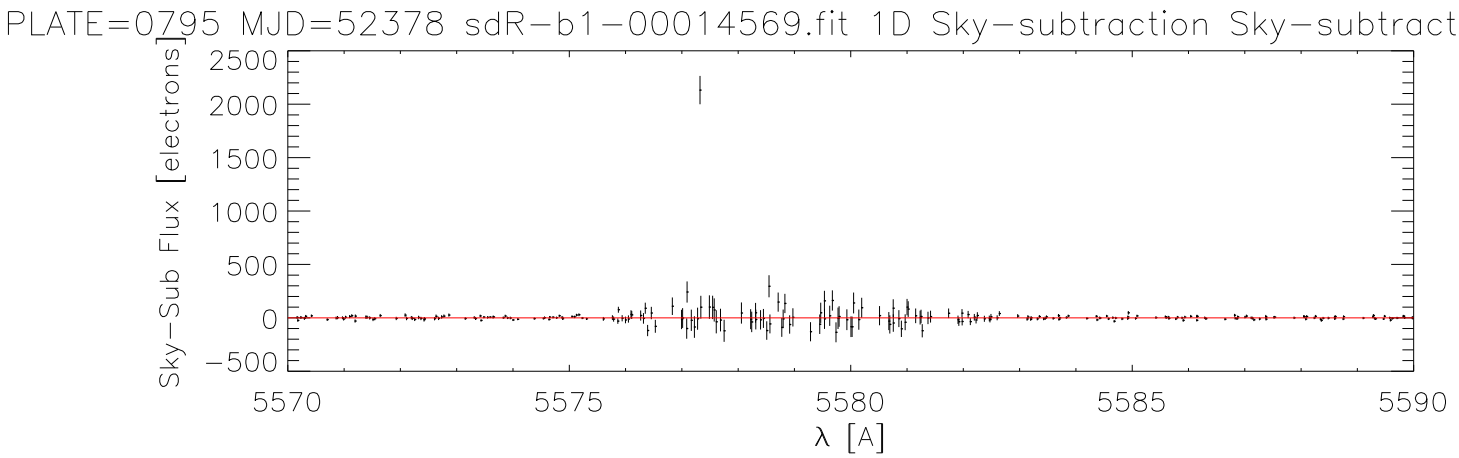

sky shift, pixels
0.35
0.30
0.25
0.20
0.15
3500
4000
4500
5000
5500
6000
6500

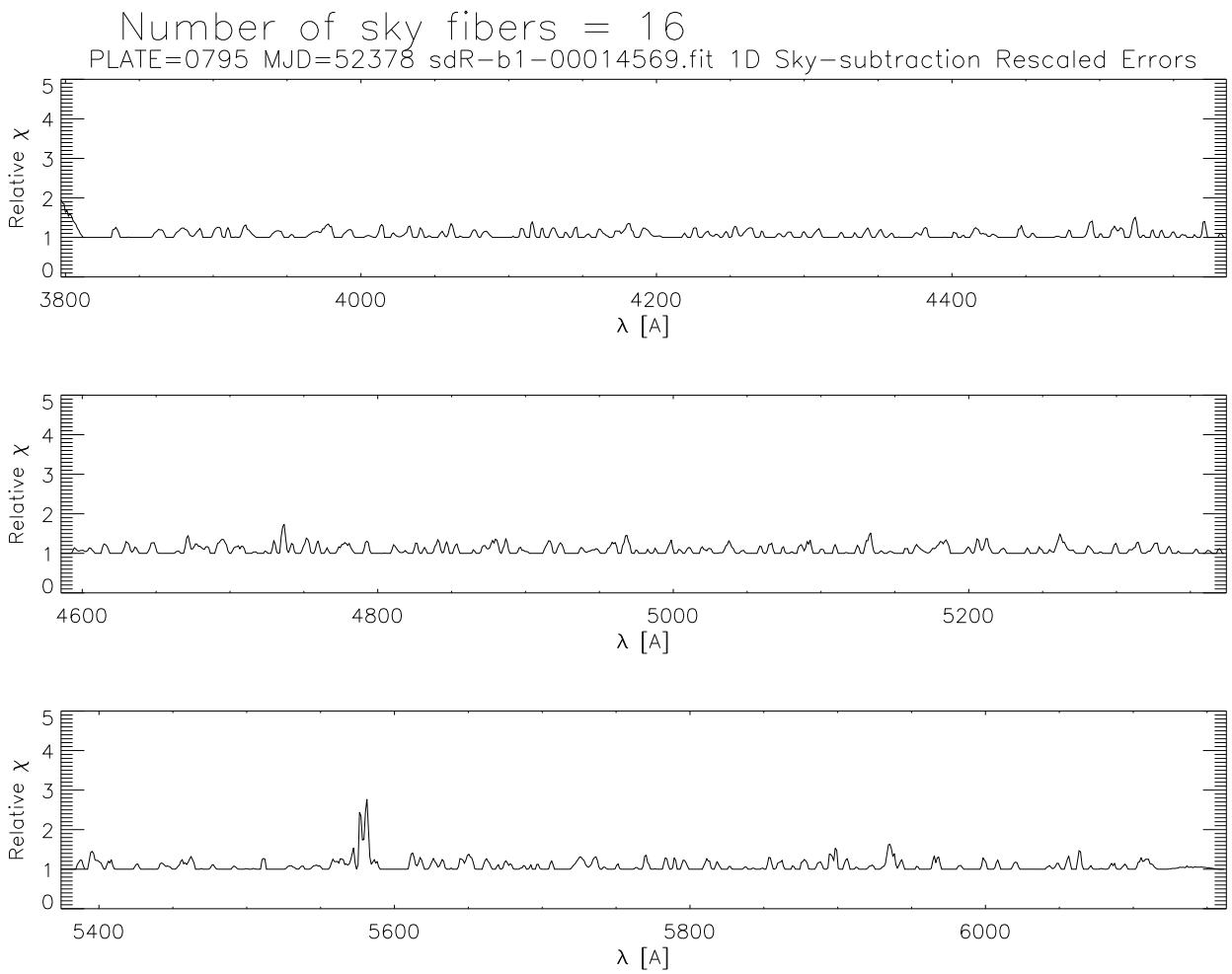

PLATE=0795 MJD=52378 Smooth superflat for sdR-b1-00014569.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

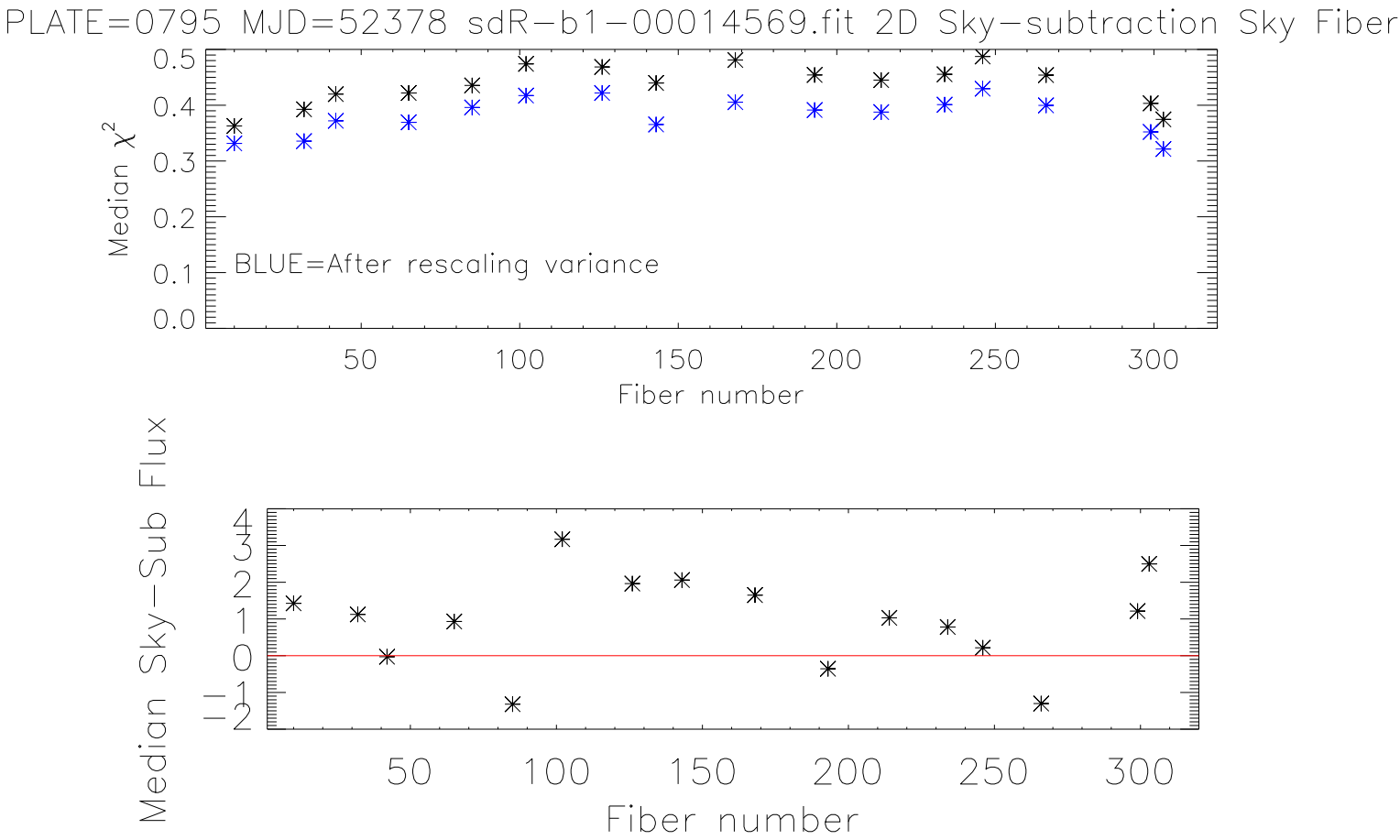
es= −0.0000

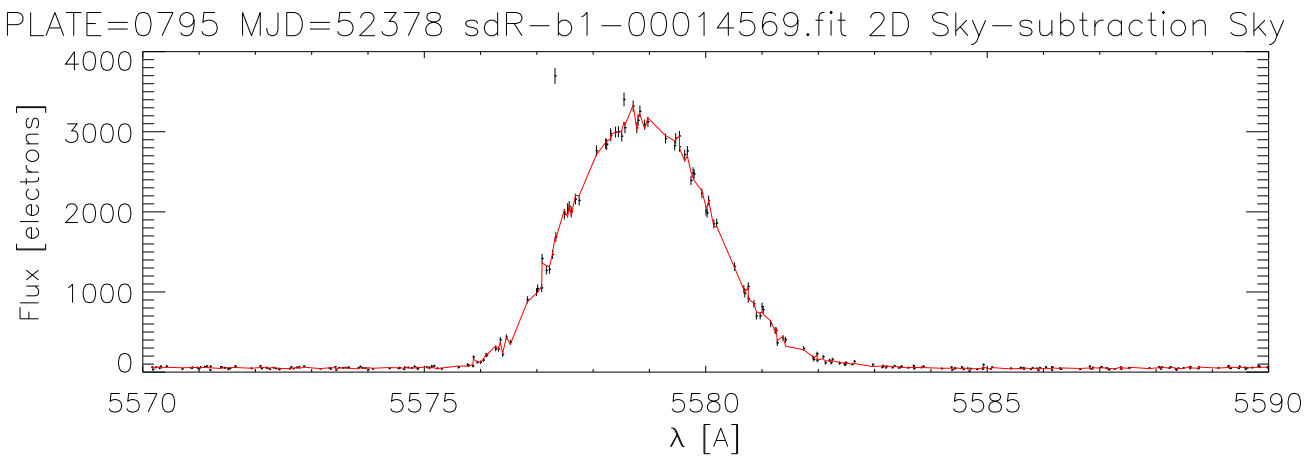

PLATE=0795 MJD=52378 sdR-b1-00014569.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

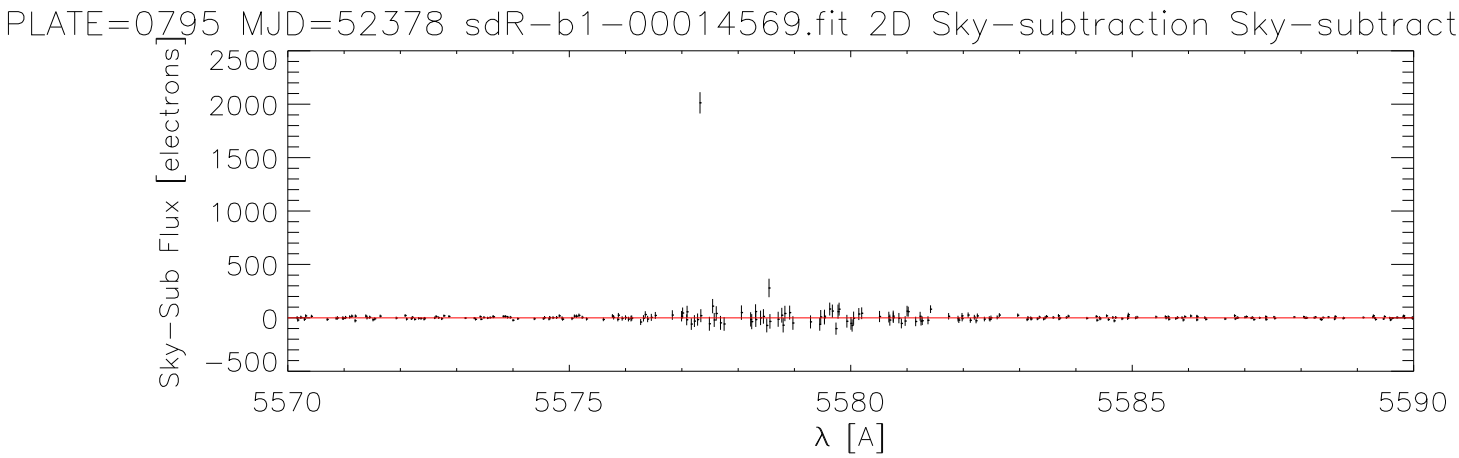

PLATE=0795 MJD=52378 sdR-b1-00014569.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

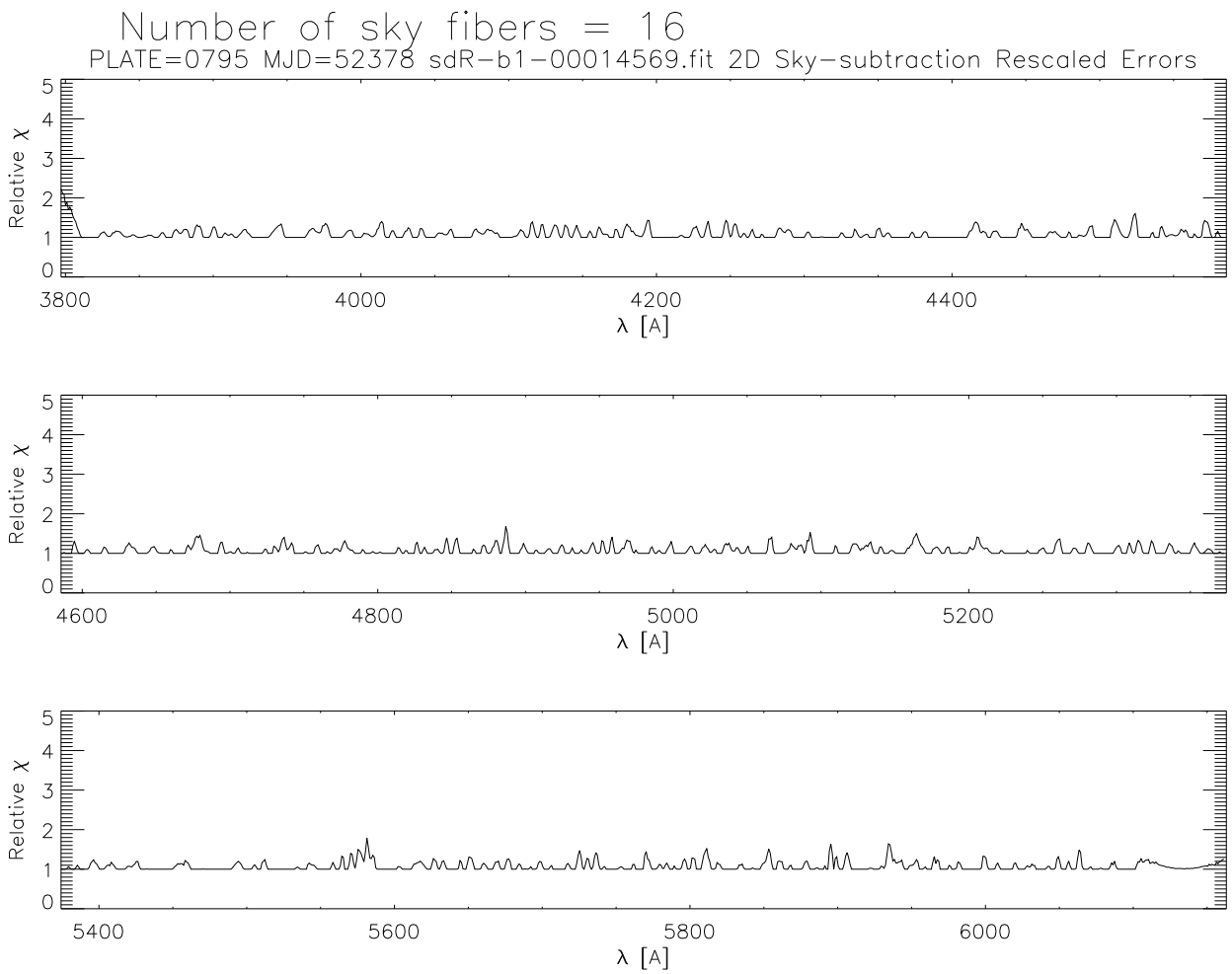

PLATE=0795 MJD=52378 sdR-b1-00014569.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

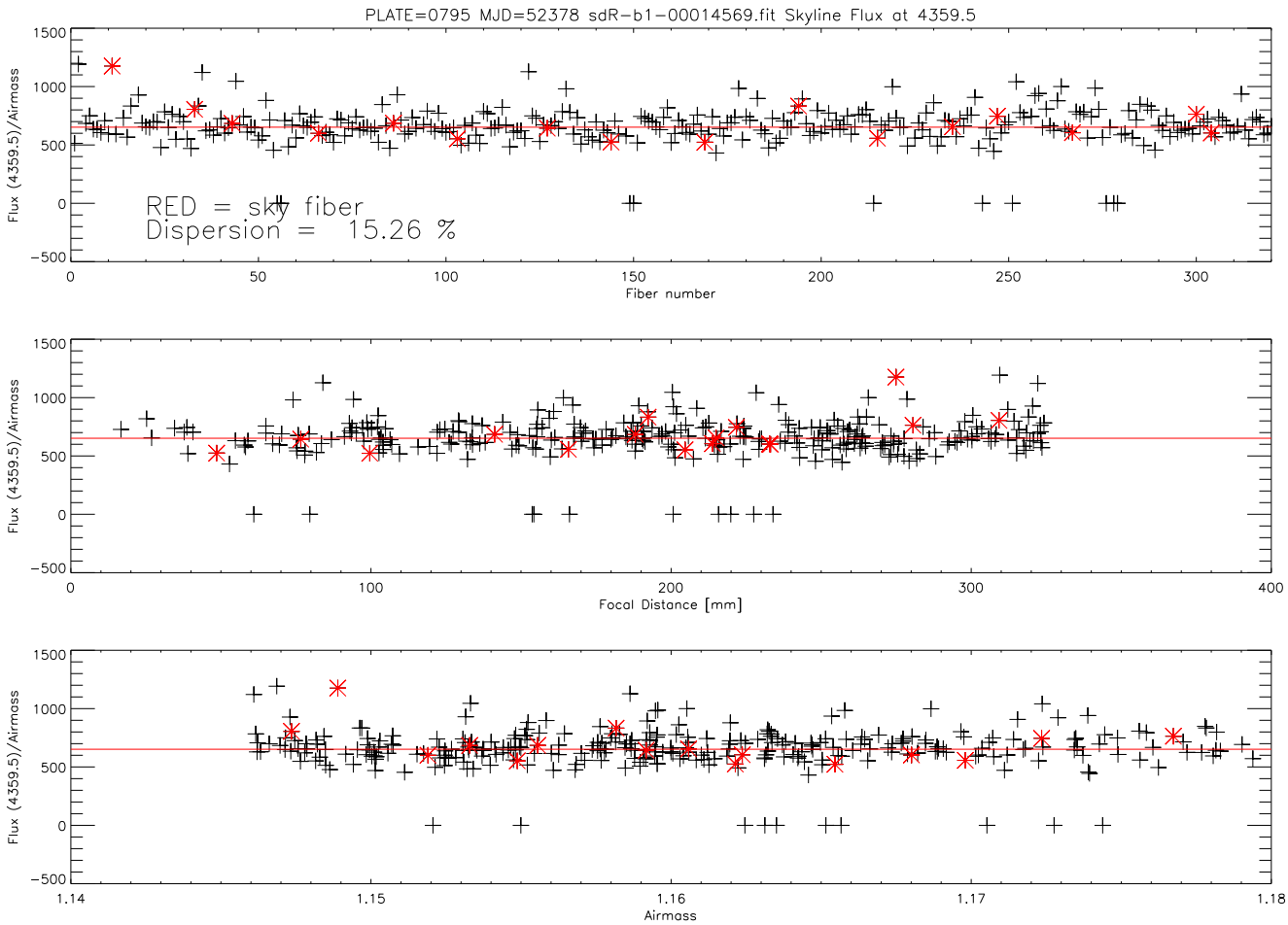

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014569.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

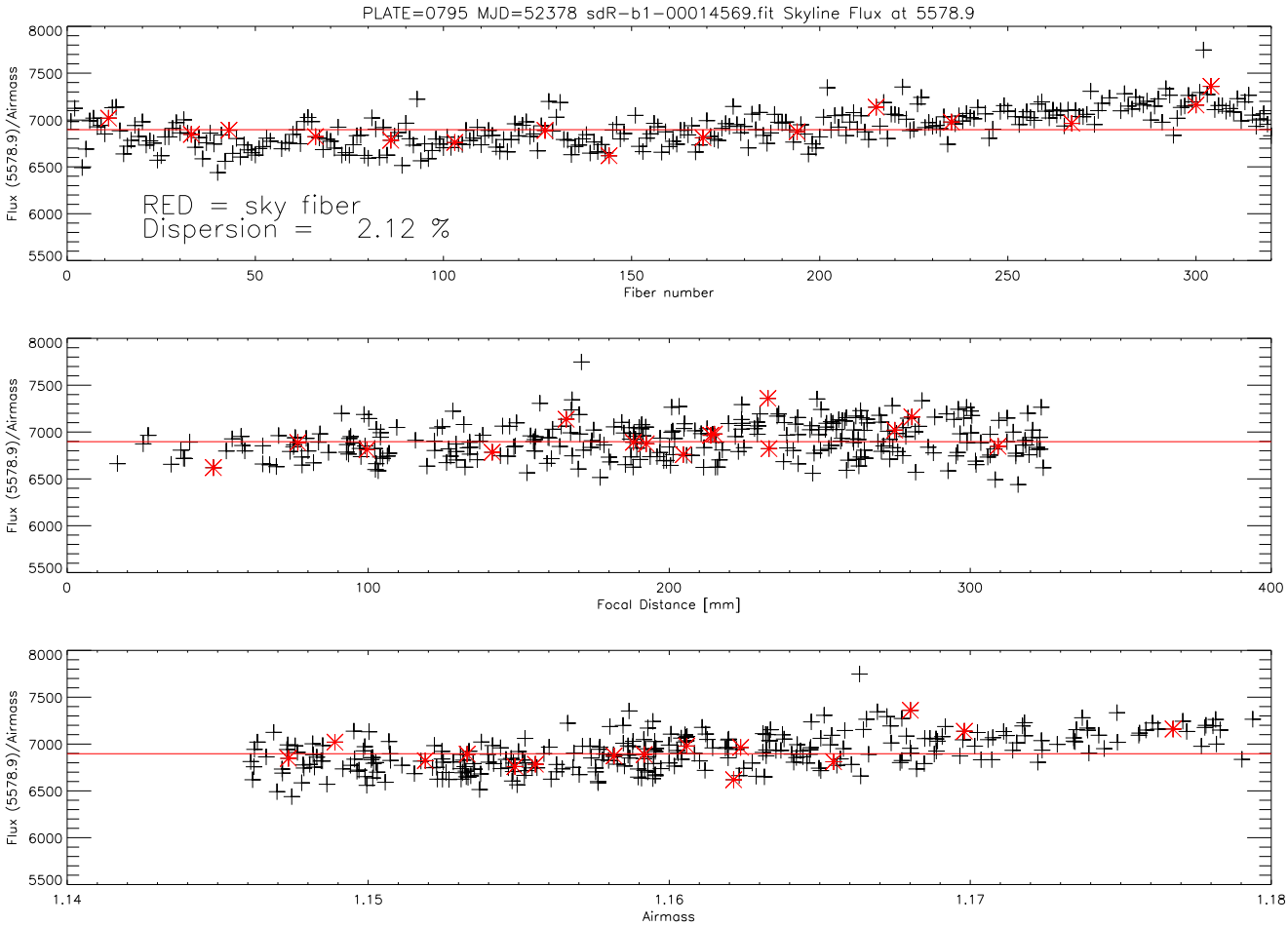

PLATE=0795 MJD=52378 sdR-b1-00014569.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

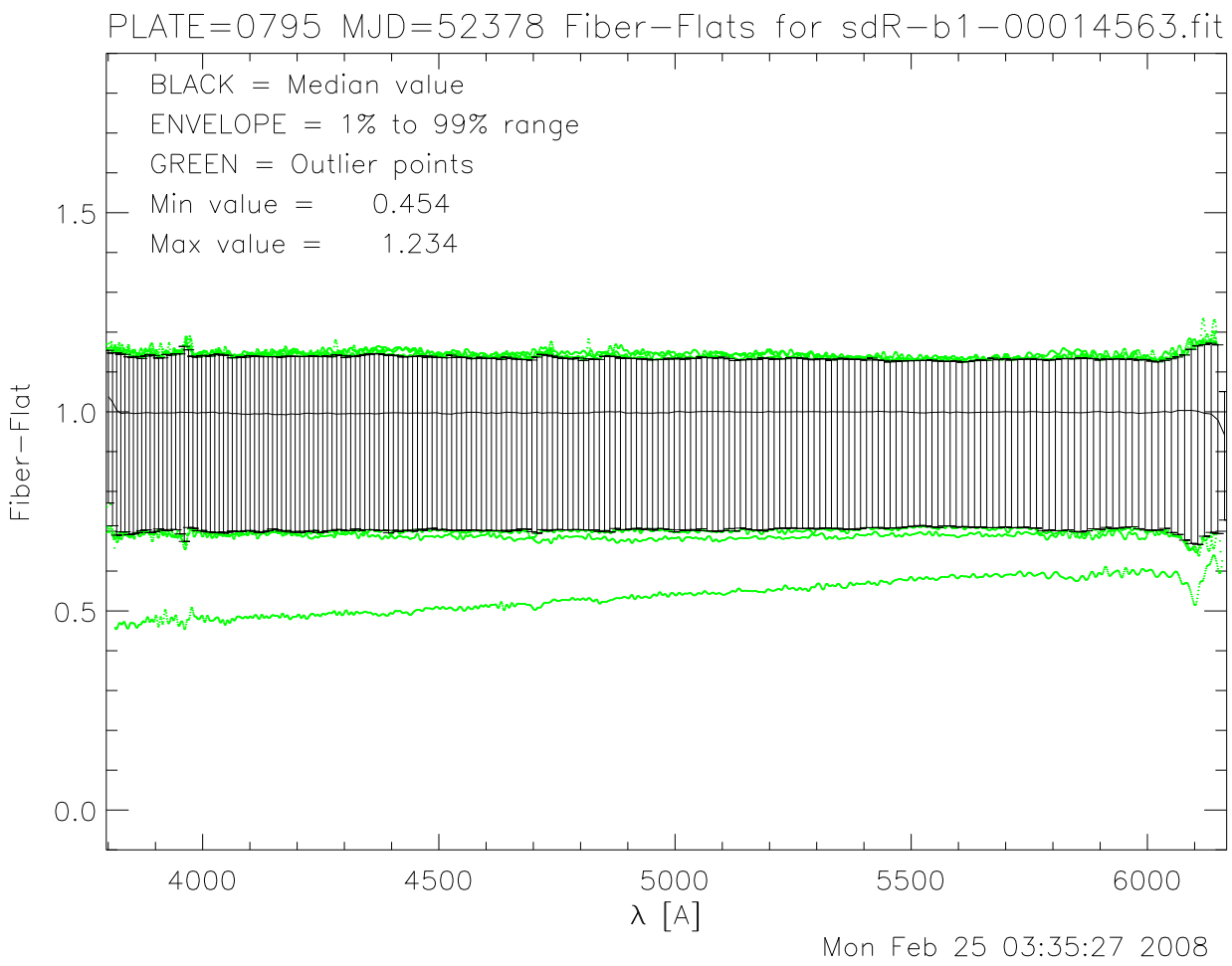

PLATE=0795 MJD=52378 sdR-b1-00014569.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

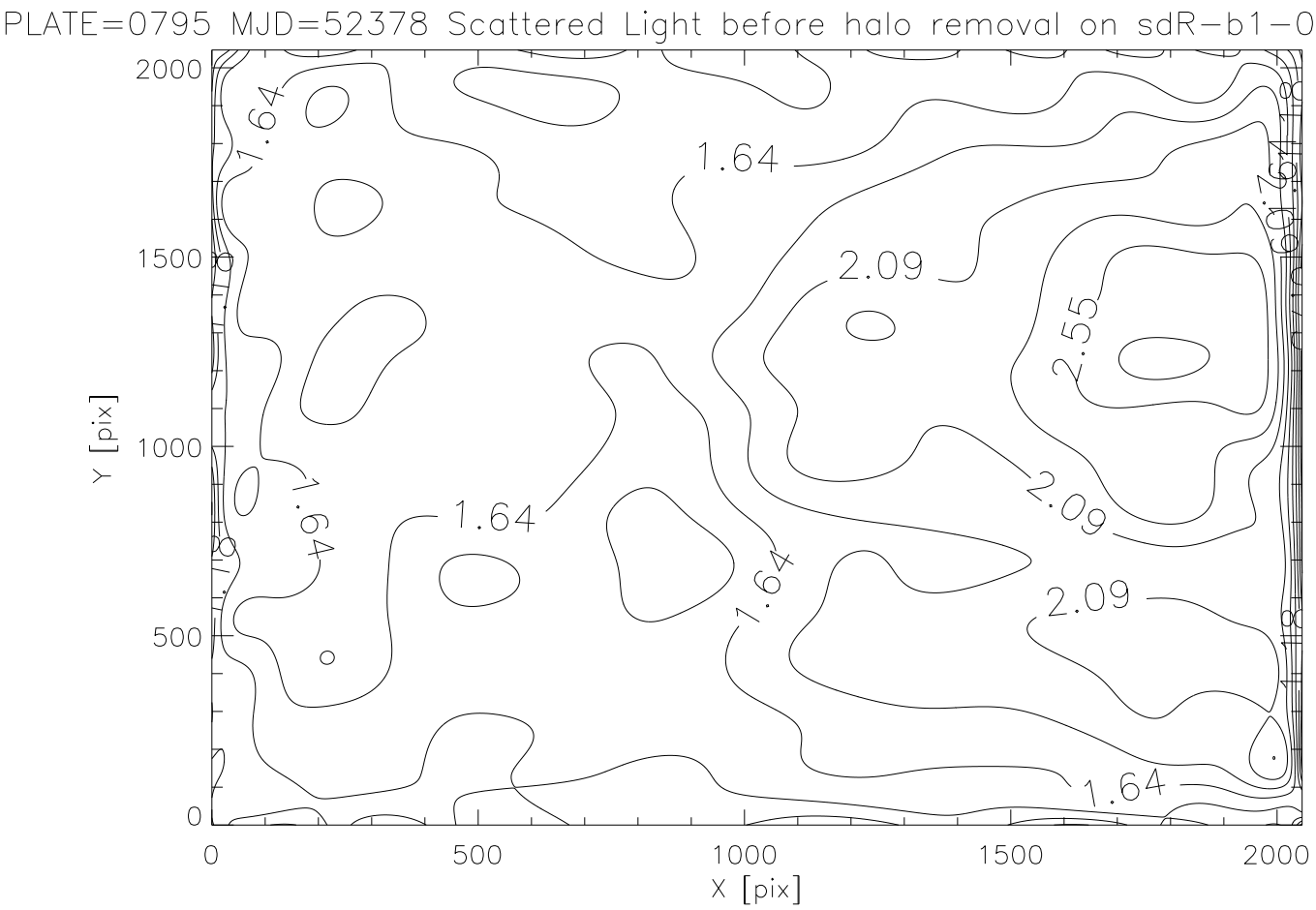

PLATE=0795 MJD=52378 sdR-b1-00014569.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

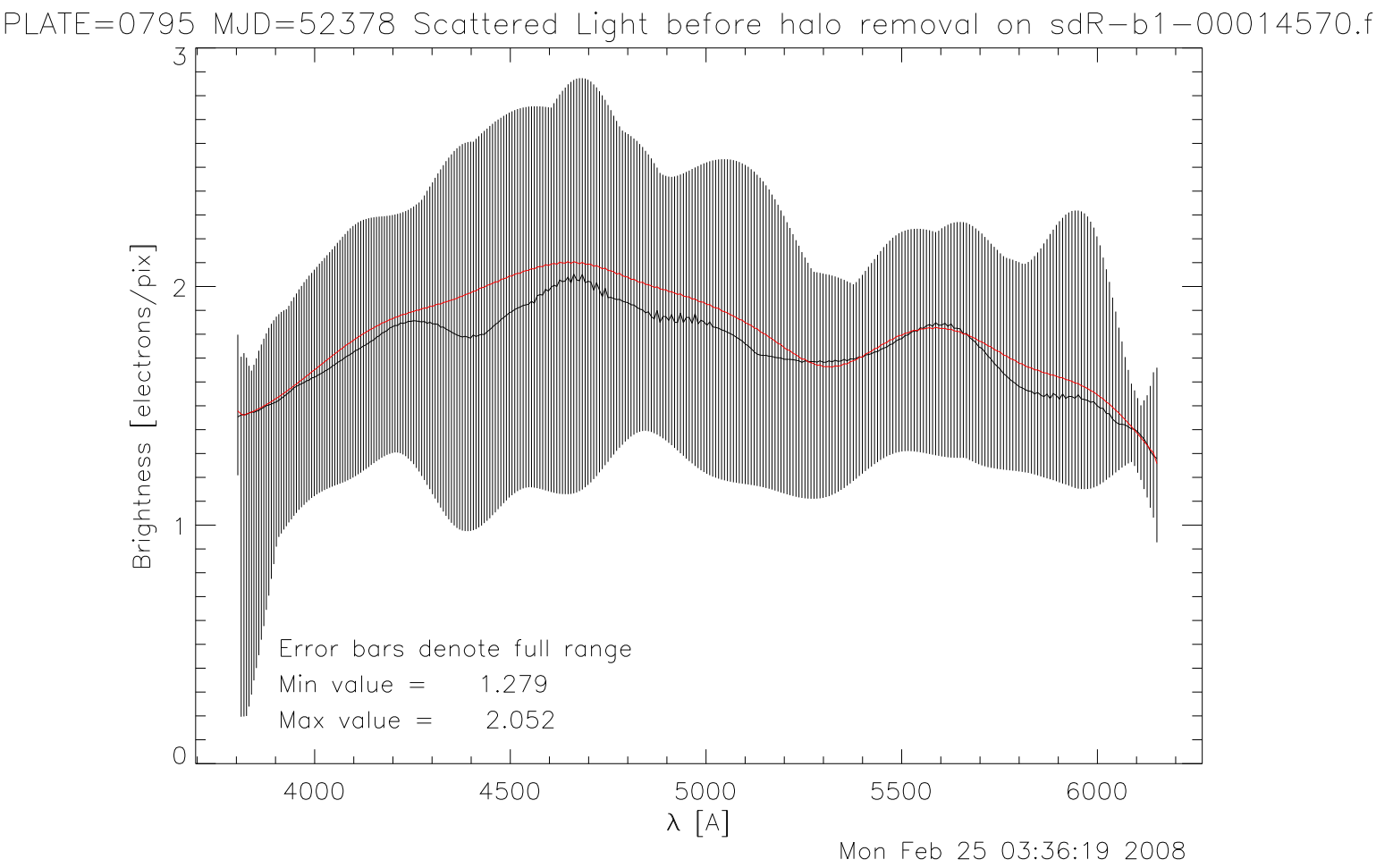

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014569.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

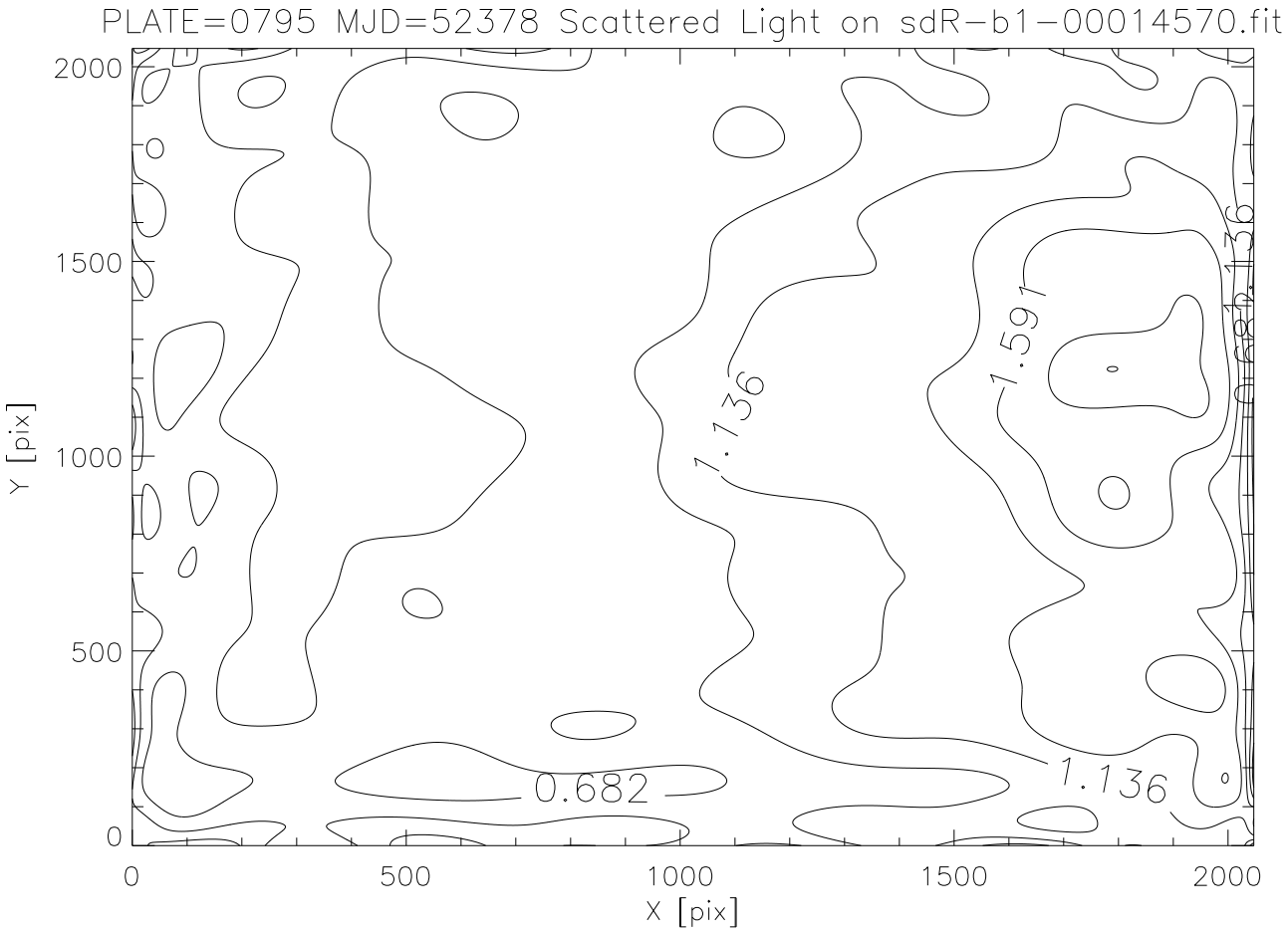

PLATE=0795 MJD=52378 sdR-b1-00014569.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 15.26 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

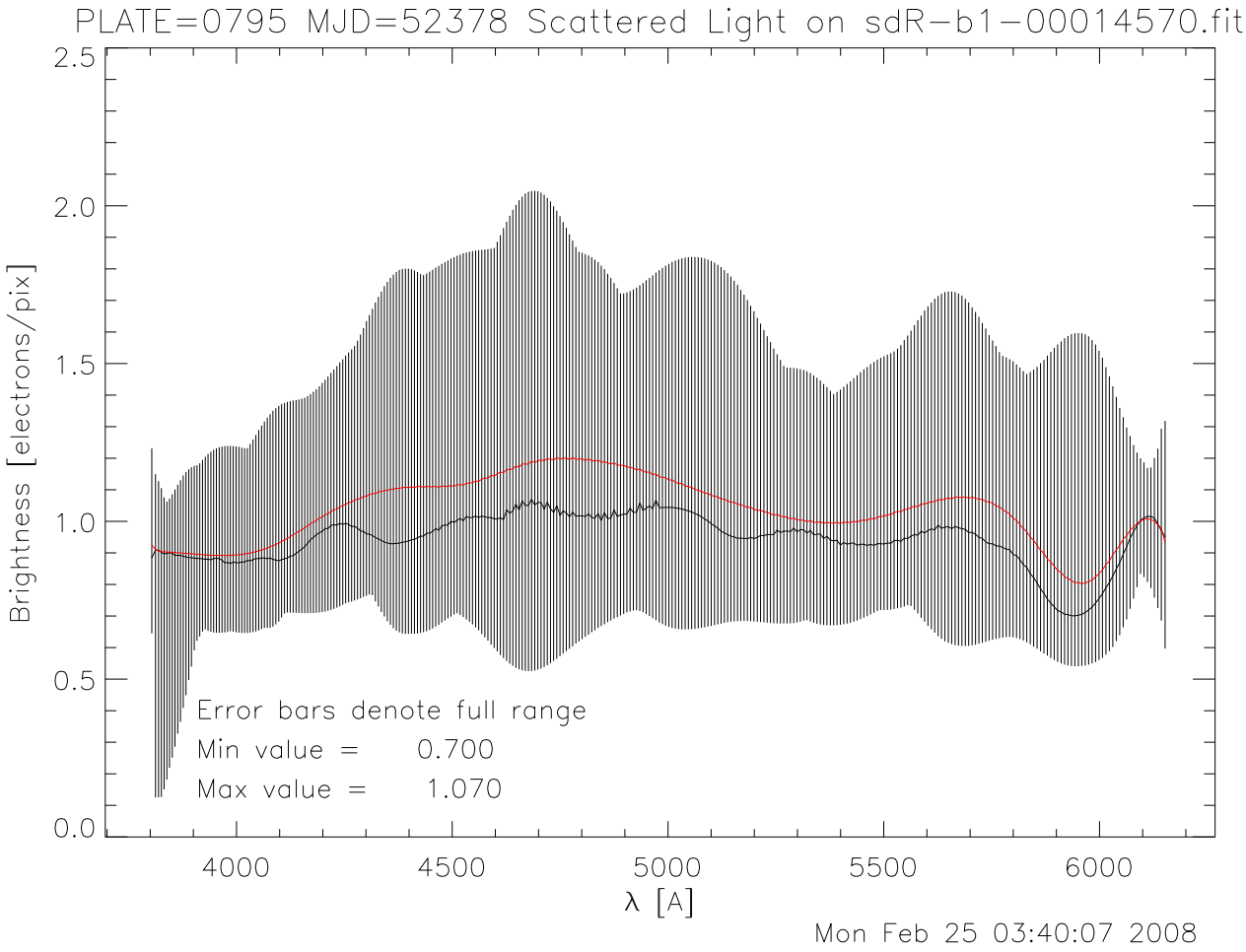

PLATE=0795 MJD=52378 sdR-b1-00014569.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.12 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

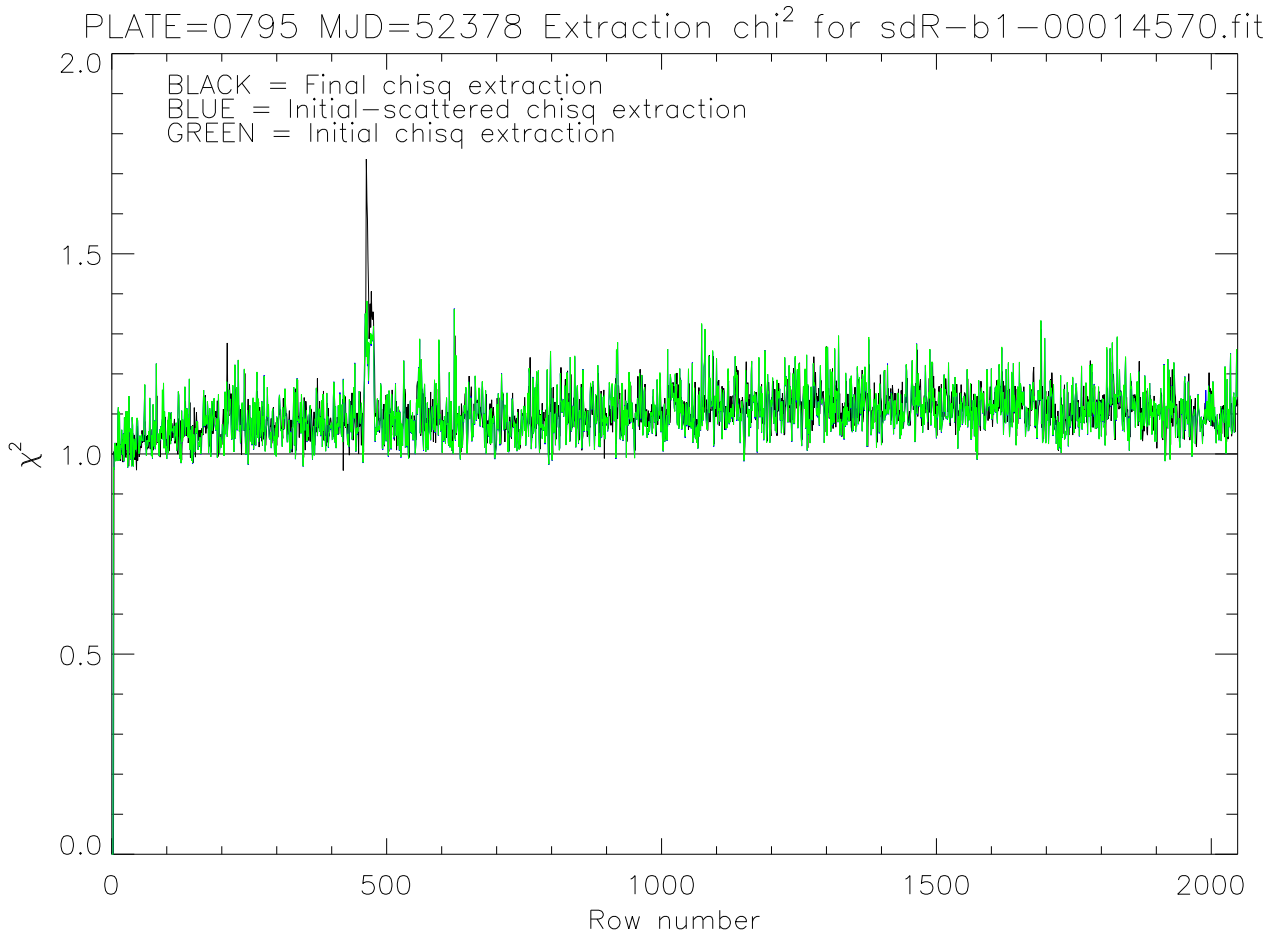

PLATE=0795 MJD=52378 Fiber-Flats for sdR-b1-00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.454
Max value = 1.234
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:35:27 2008

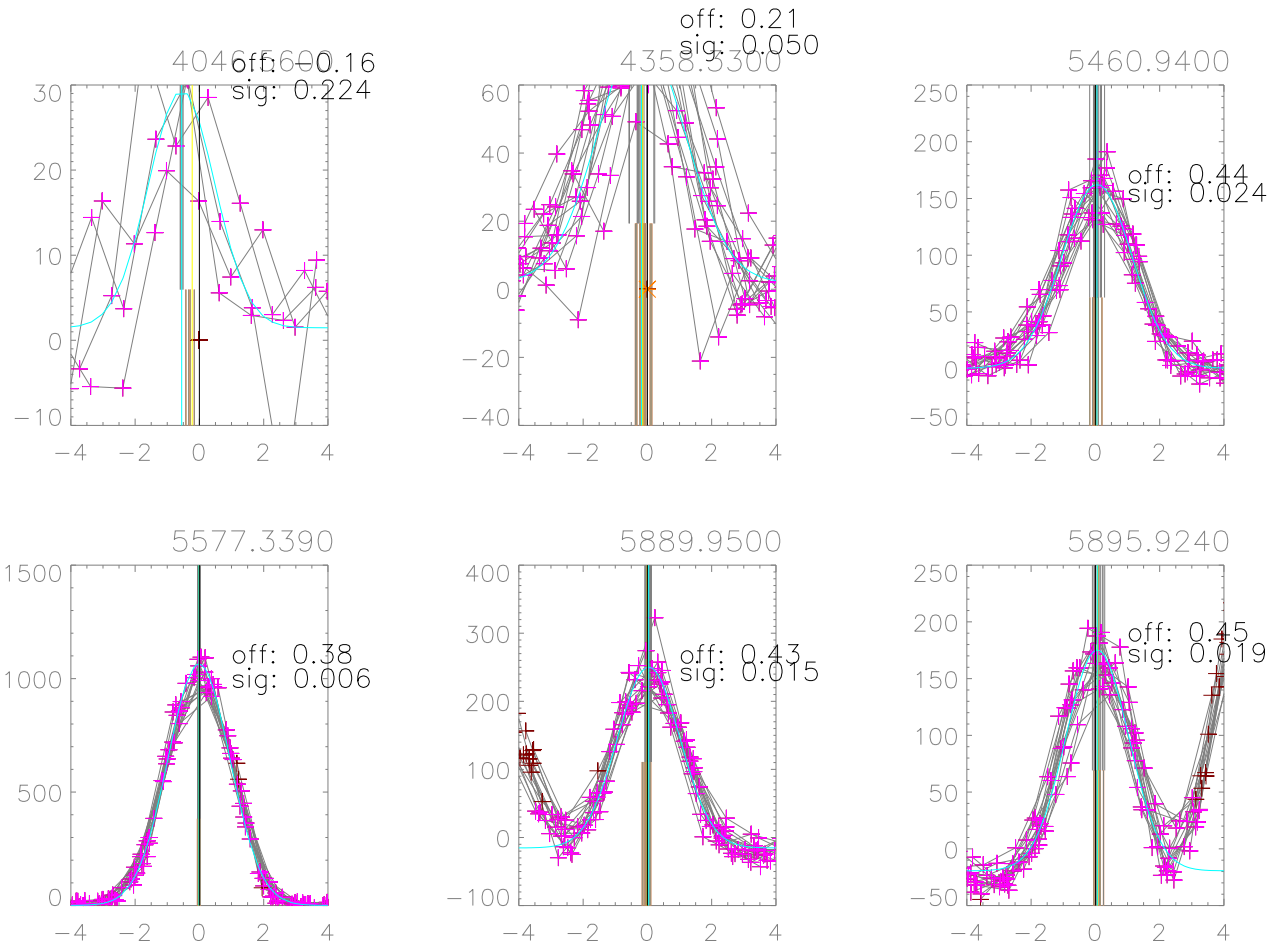

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−b1−00014570.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.64
1.64
2.09
2.55
1.64
1.64
2.09
1.64
2.09
1.64

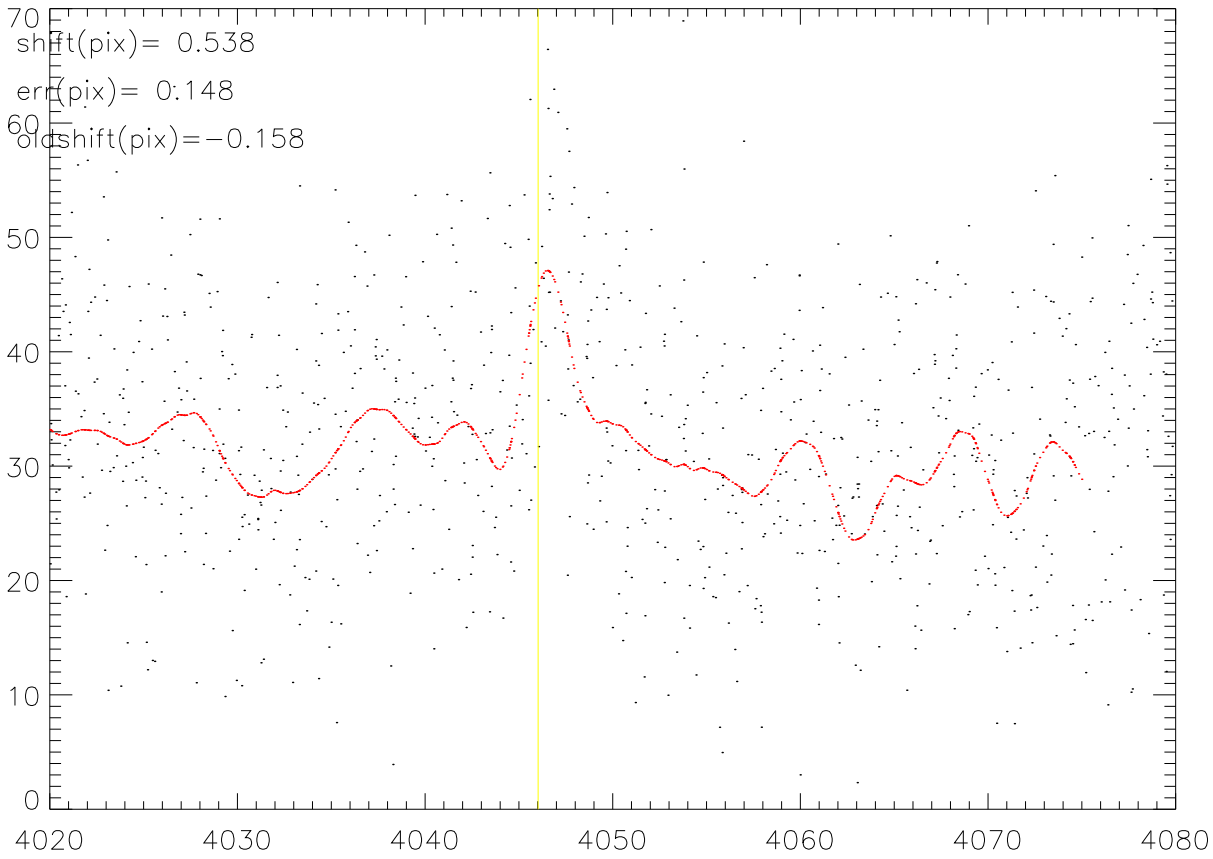

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−b1−00014570.f
Brightness [electrons/pix]
0
1
2
3
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 1.279
Max value = 2.052
Mon Feb 25 03:36:19 2008

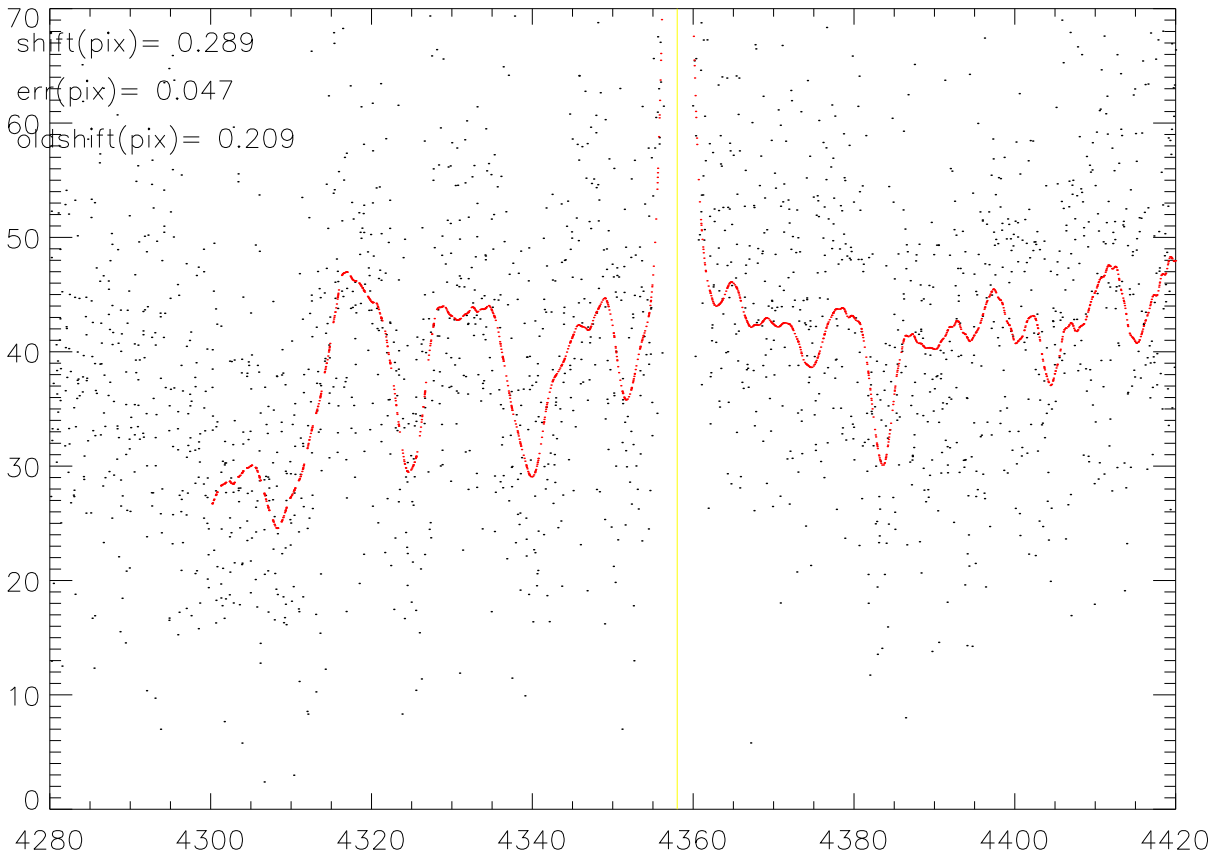

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014570.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
0
1.136
1.591
0.682
1.136
0.682
1.136

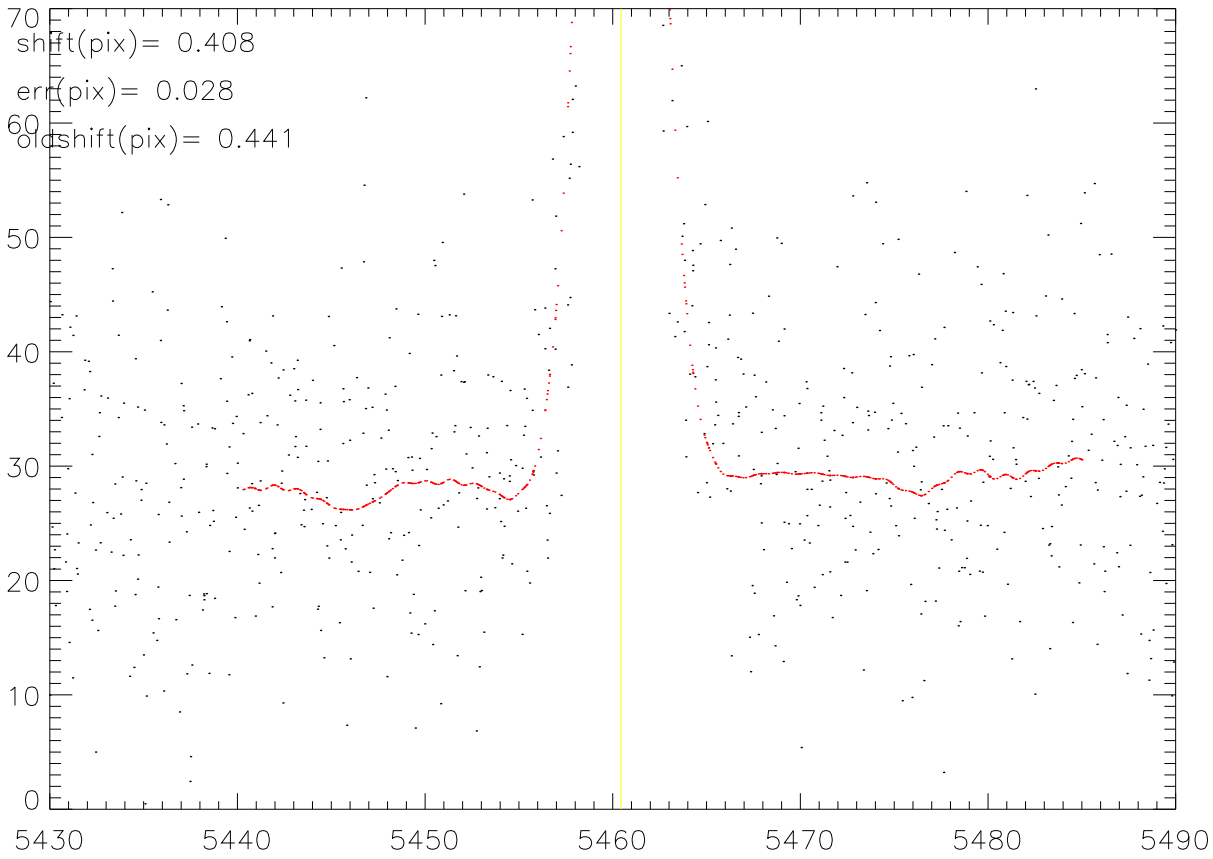

PLATE=0795 MJD=52378 Scattered Light on sdR-b1-00014570.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.700
Max value = 1.070
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:40:07 2008

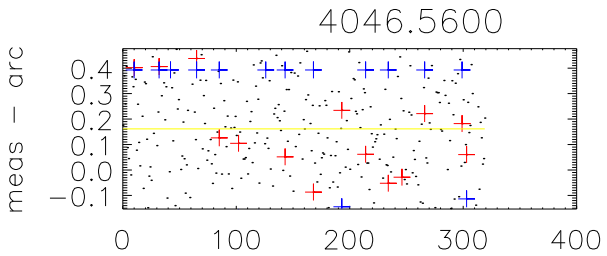

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b1-00014570.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

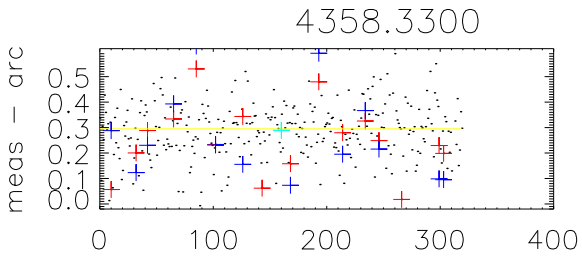

4046.5600
off: 0.16
sig: 0.224
4358.3300
off: 0.21
sig: 0.050
5460.9400
off: 0.44
sig: 0.024
5577.3390
off: 0.38
sig: 0.006
5889.9500
off: 0.43
sig: 0.015
5895.9240
off: 0.45
sig: 0.019

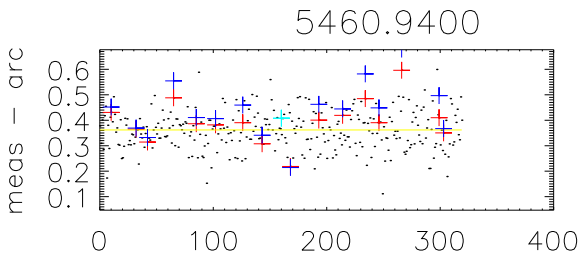

shift(pix)= 0.538
err(pix)= 0.148
oldshift(pix)=-0.158
70
60
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

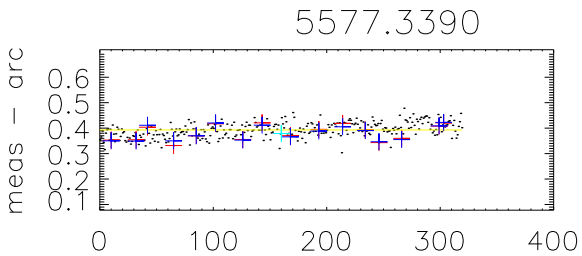

shift(pix)= 0.289
err(pix)= 0.047
oldshift(pix)= 0.209
70
60
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

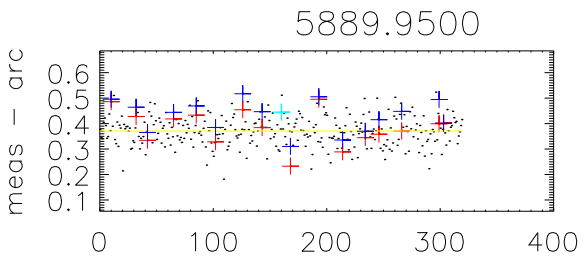

shift(pix)= 0.408
err(pix)= 0.028
oldshift(pix)= 0.441
70
60
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

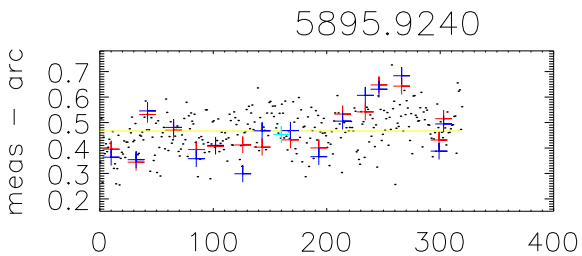

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

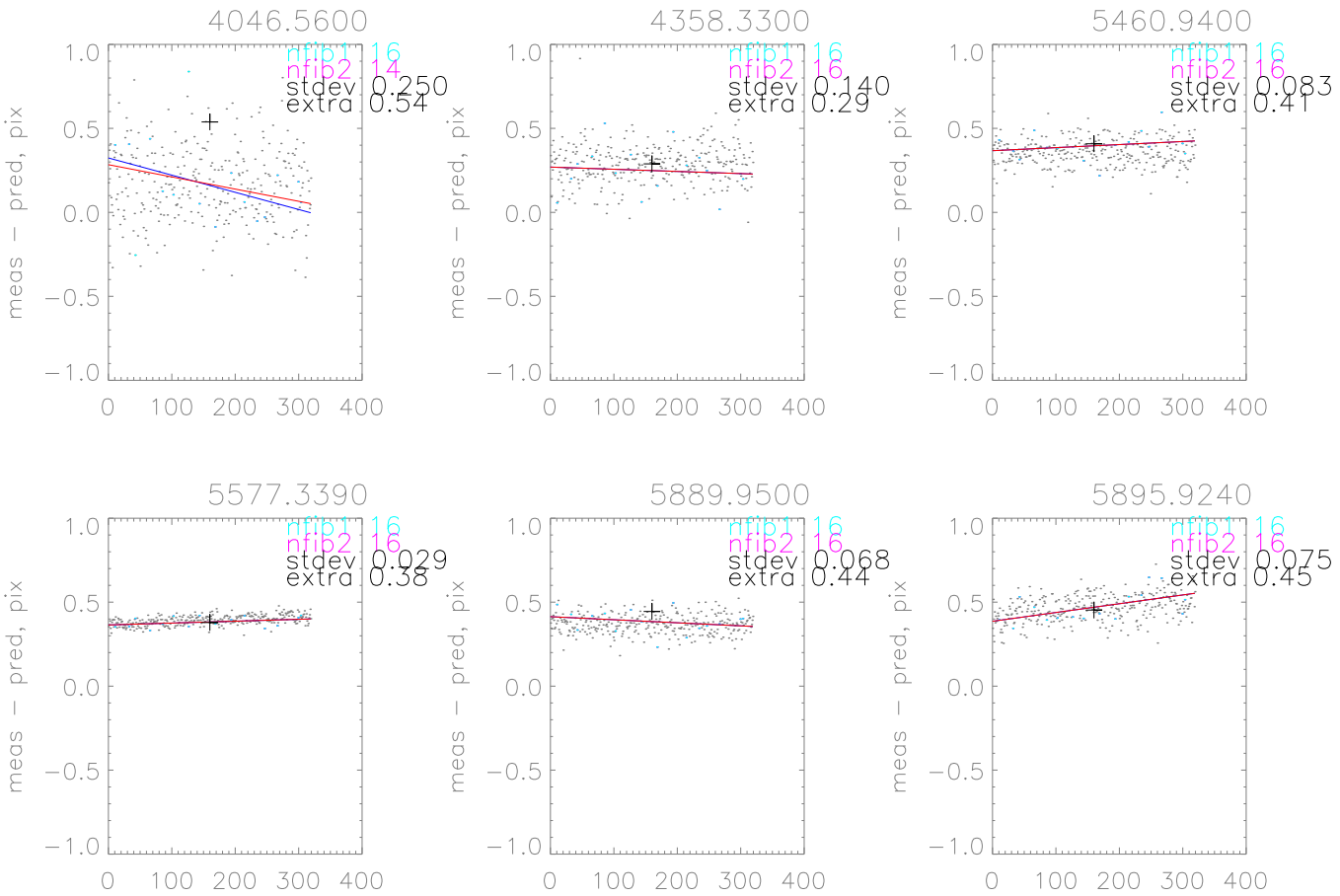

4358.3300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

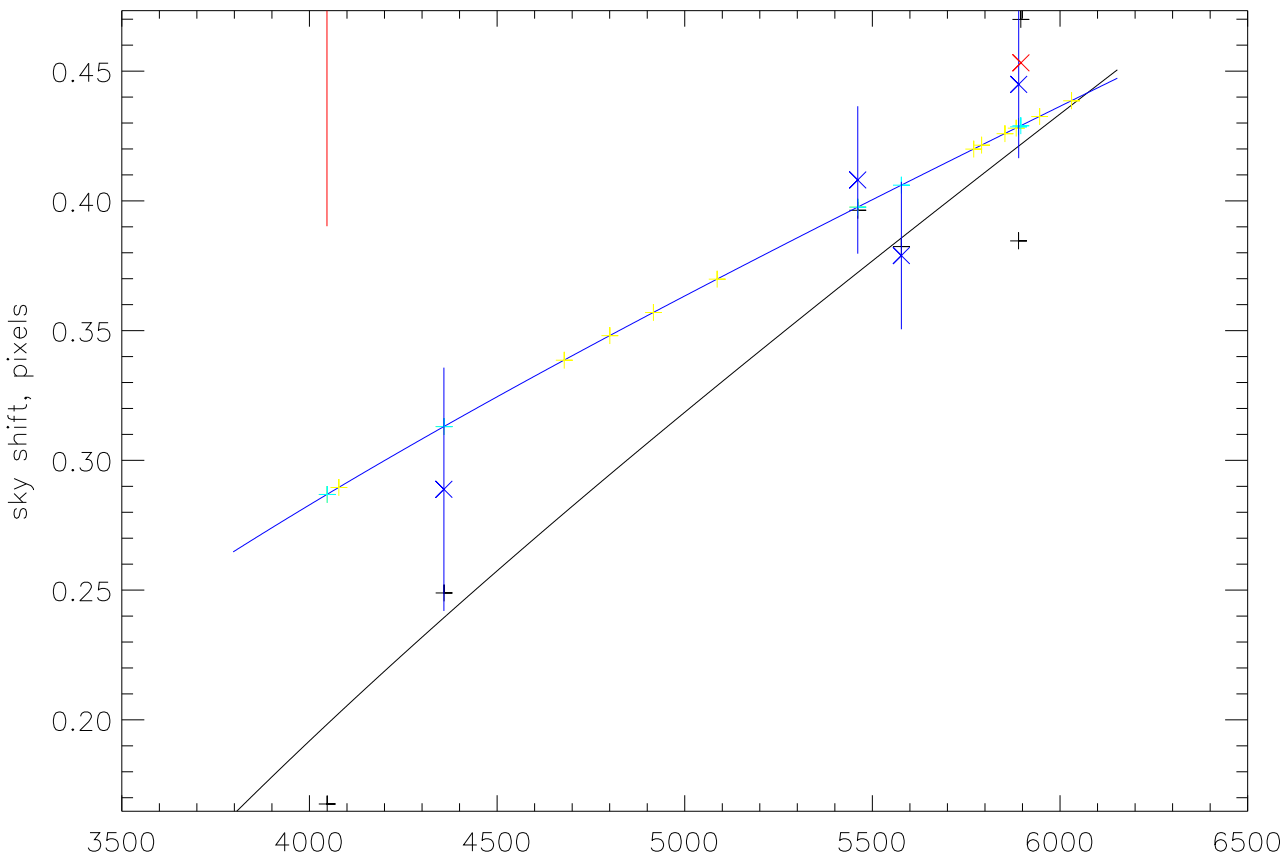

5460.9400
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

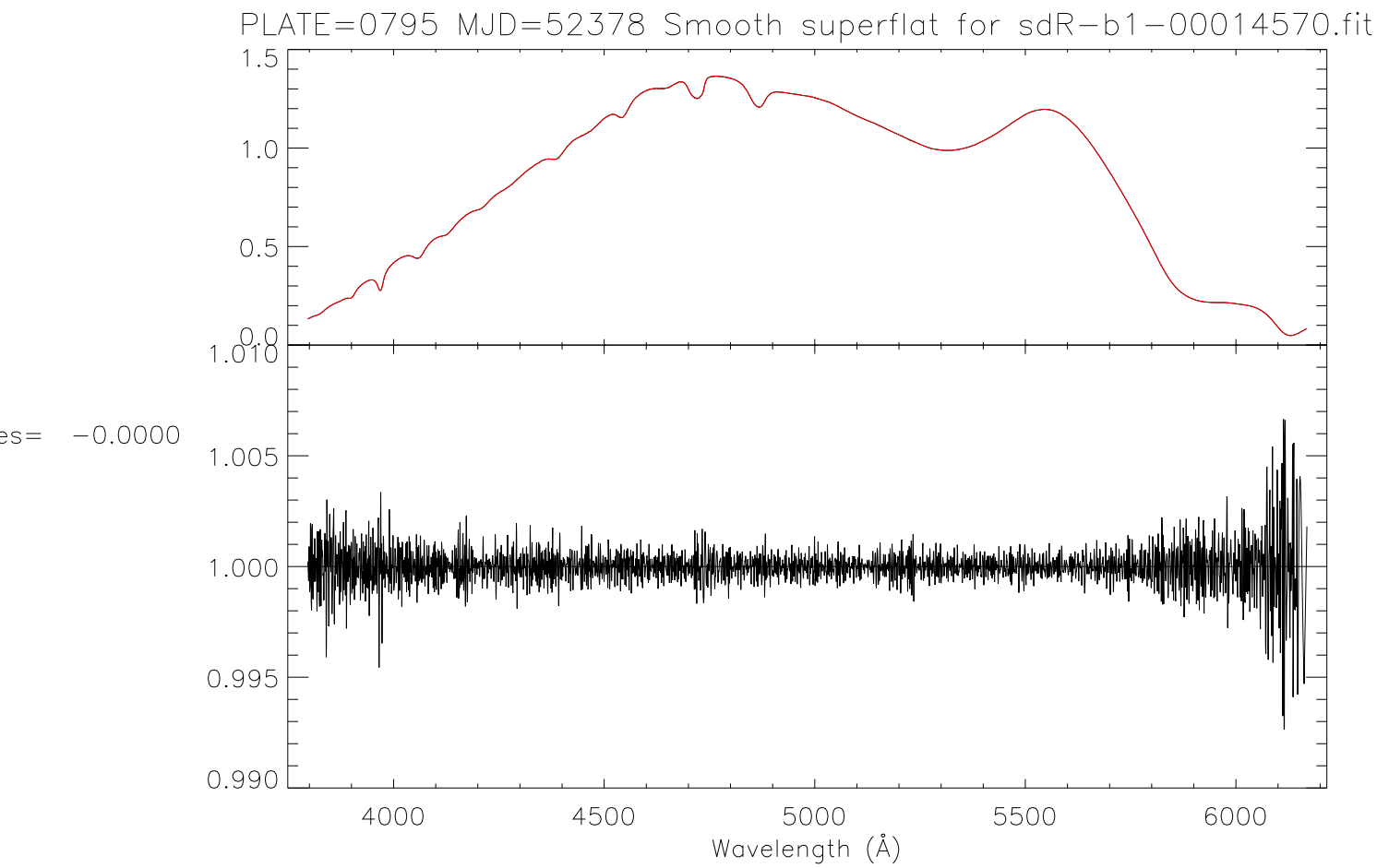

5577.3390
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400


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

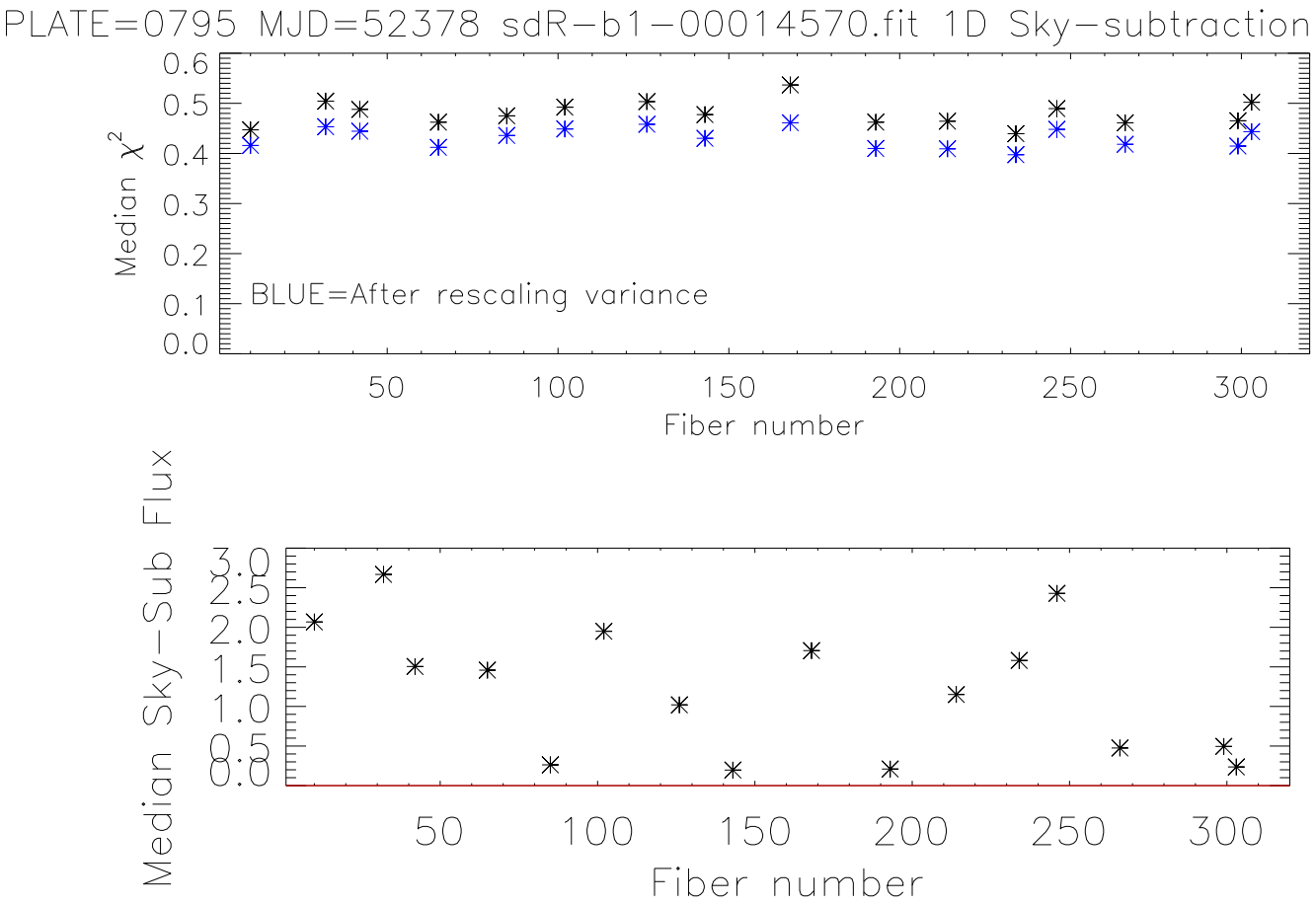

5895.9240
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

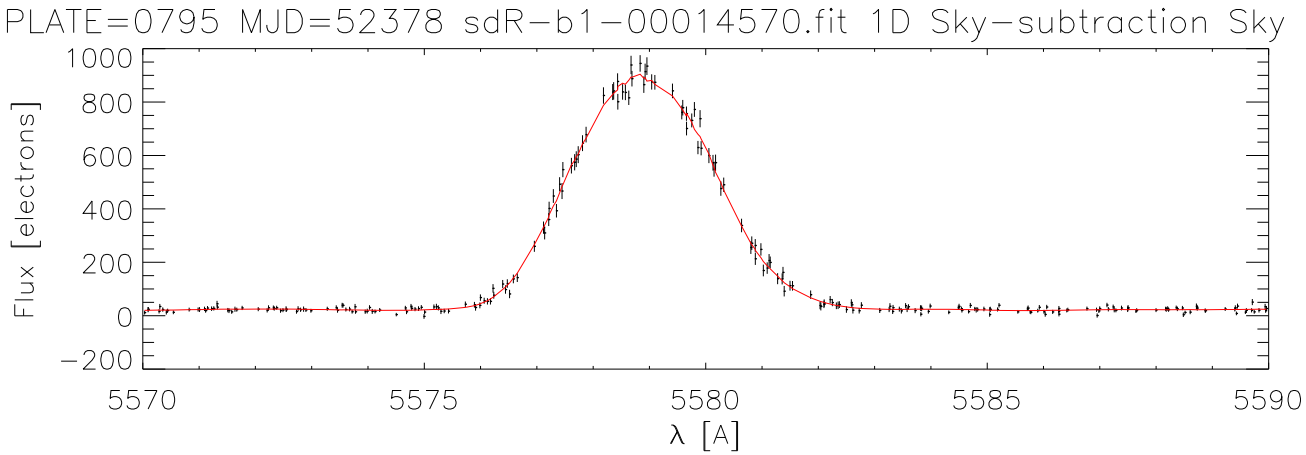

4046.5600
nfib1 16
nfib2 14
stdev 0.250
extra 0.54
4358.3300
nfib1 16
nfib2 16
stdev 0.140
extra 0.29
5460.9400
nfib1 16
nfib2 16
stdev 0.083
extra 0.41
5577.3390
nfib1 16
nfib2 16
stdev 0.029
extra 0.38
5889.9500
nfib1 16
nfib2 16
stdev 0.068
extra 0.44
5895.9240
nfib1 16
nfib2 16
stdev 0.075
extra 0.45
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

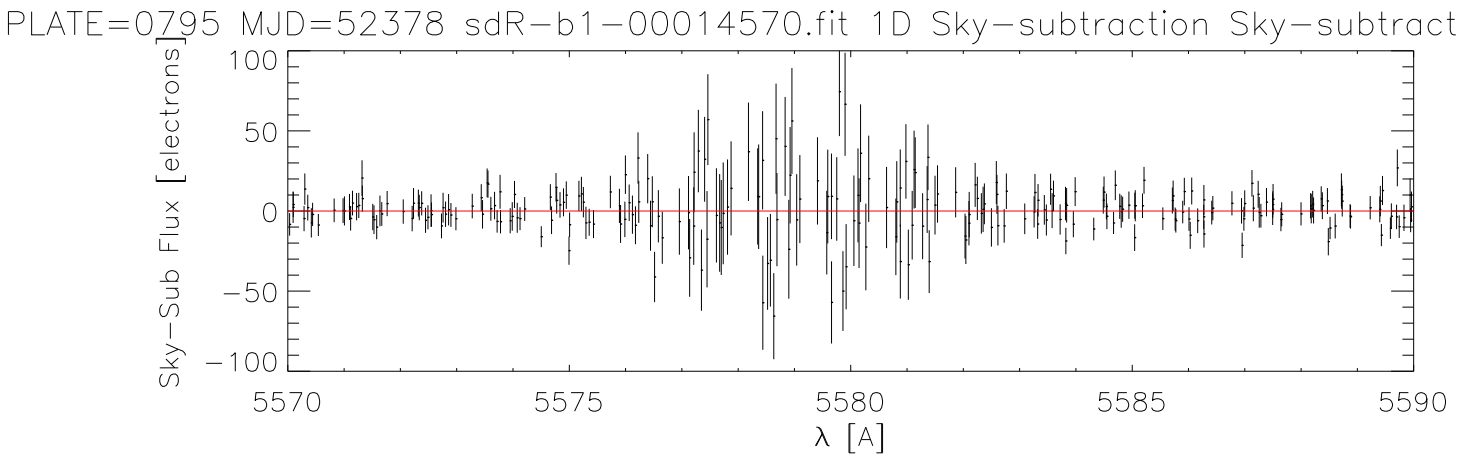

sky shift, pixels
0.45
0.40
0.35
0.30
0.25
0.20
3500
4000
4500
5000
5500
6000
6500

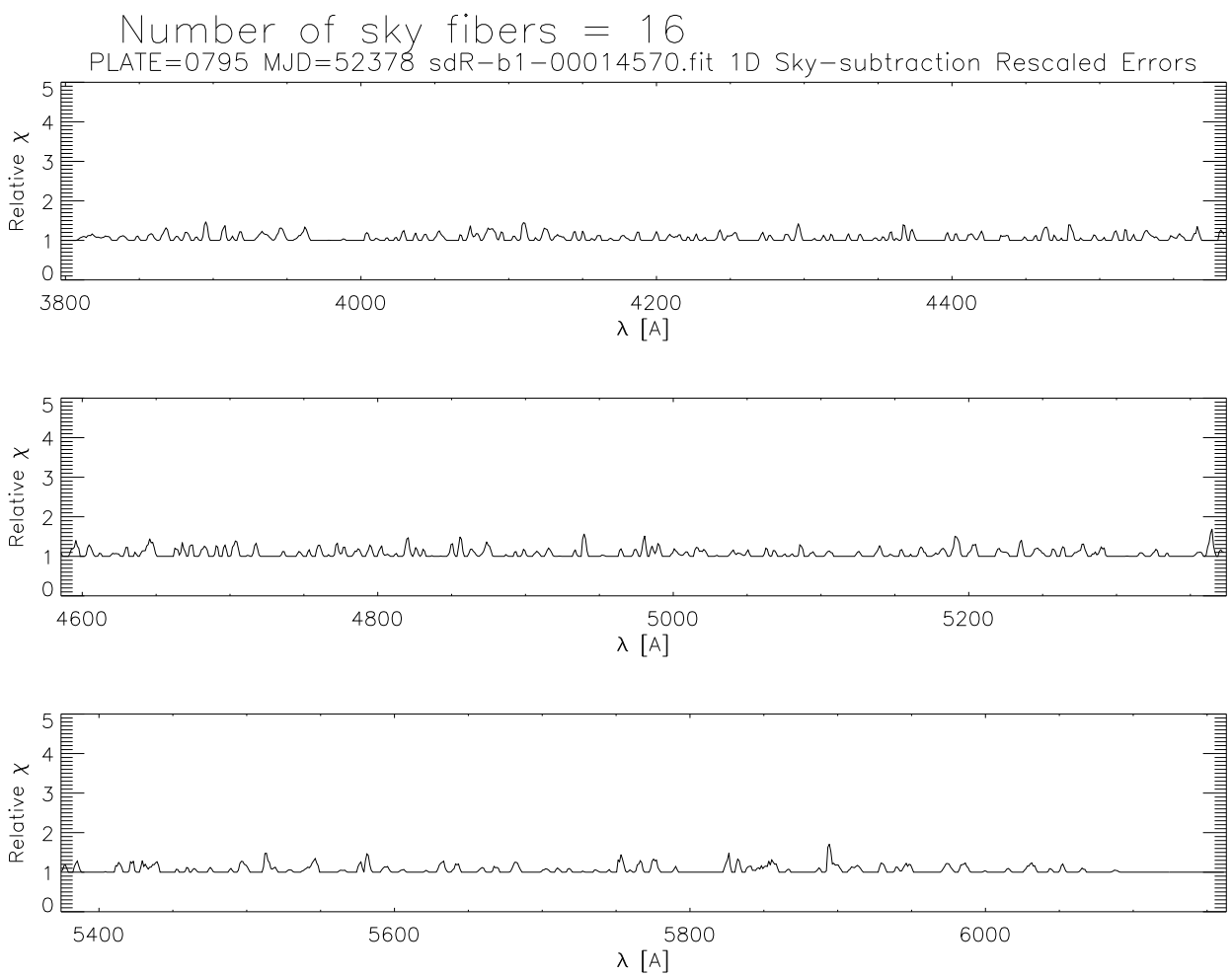

PLATE=0795 MJD=52378 Smooth superflat for sdR-b1-00014570.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

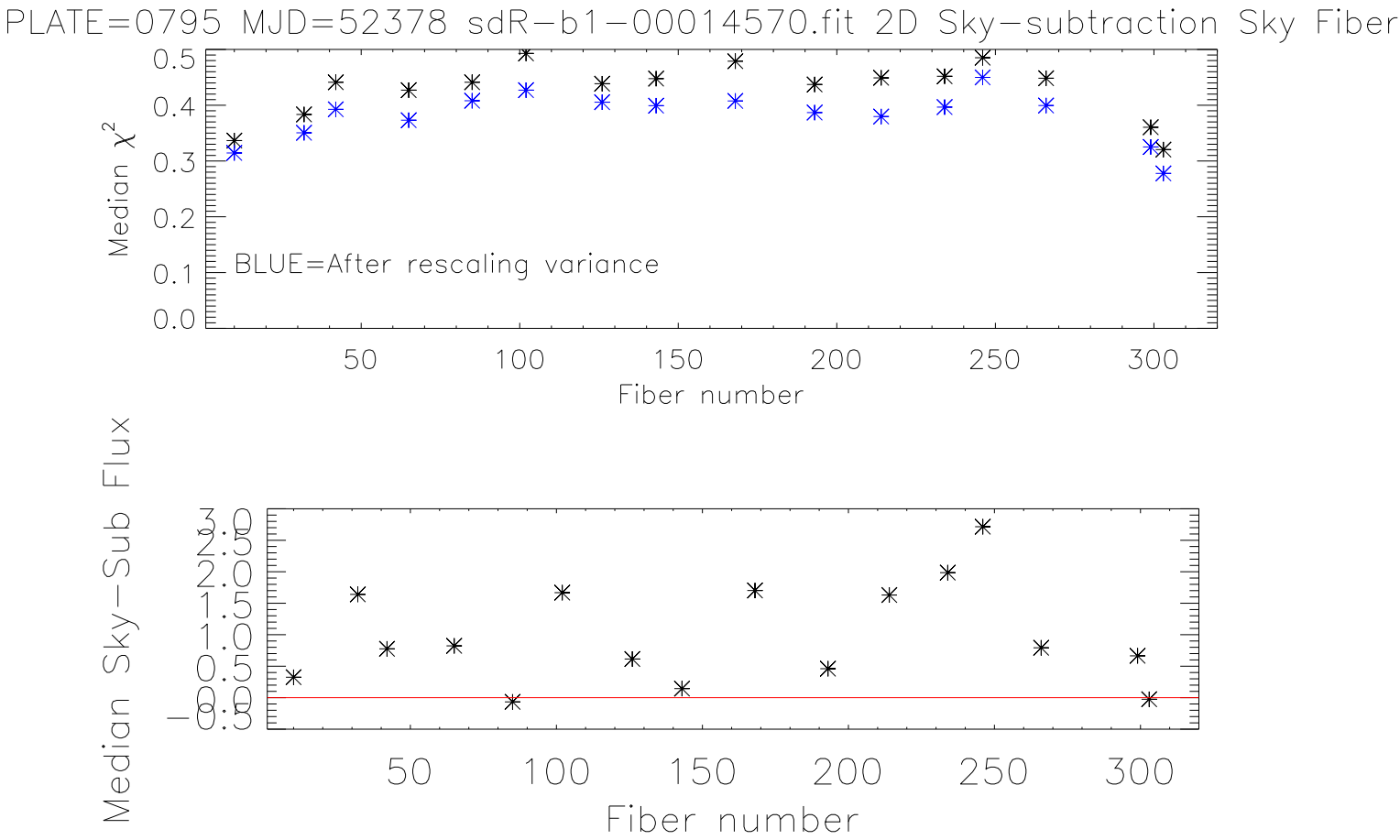
es= −0.0000

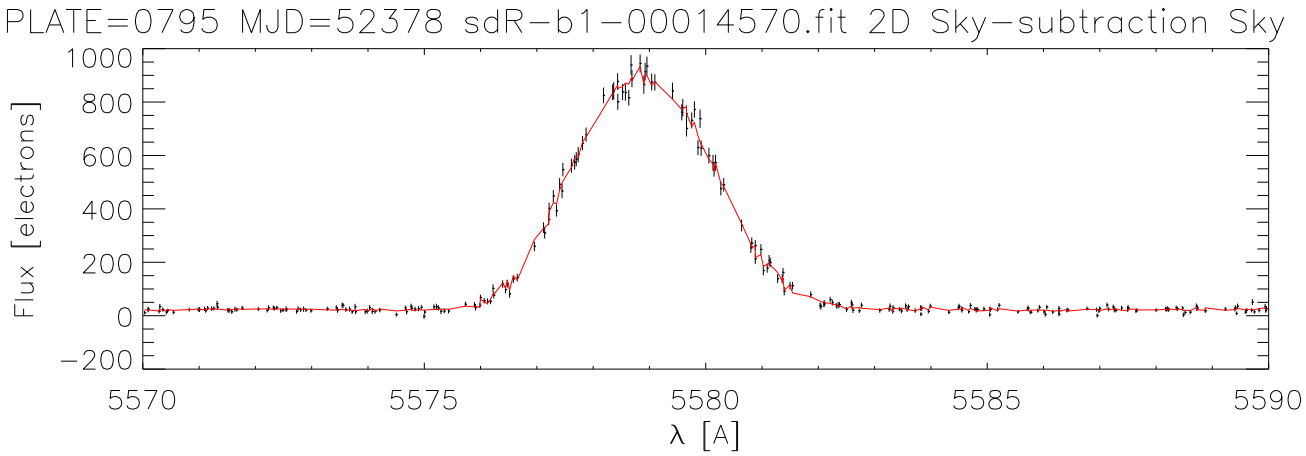

PLATE=0795 MJD=52378 sdR-b1-00014570.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

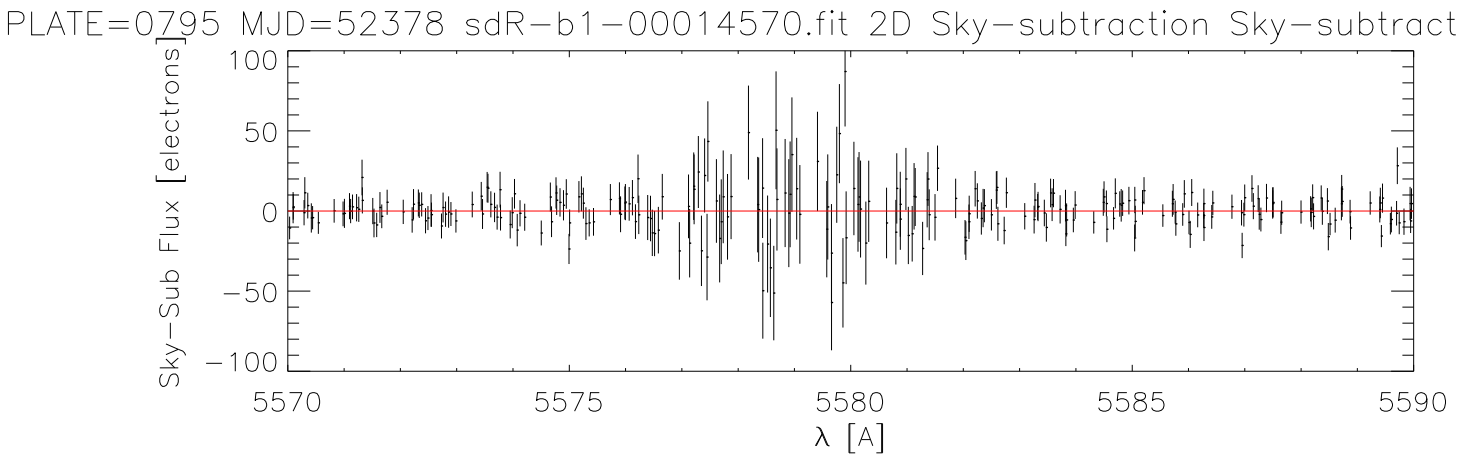

PLATE=0795 MJD=52378 sdR-b1-00014570.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

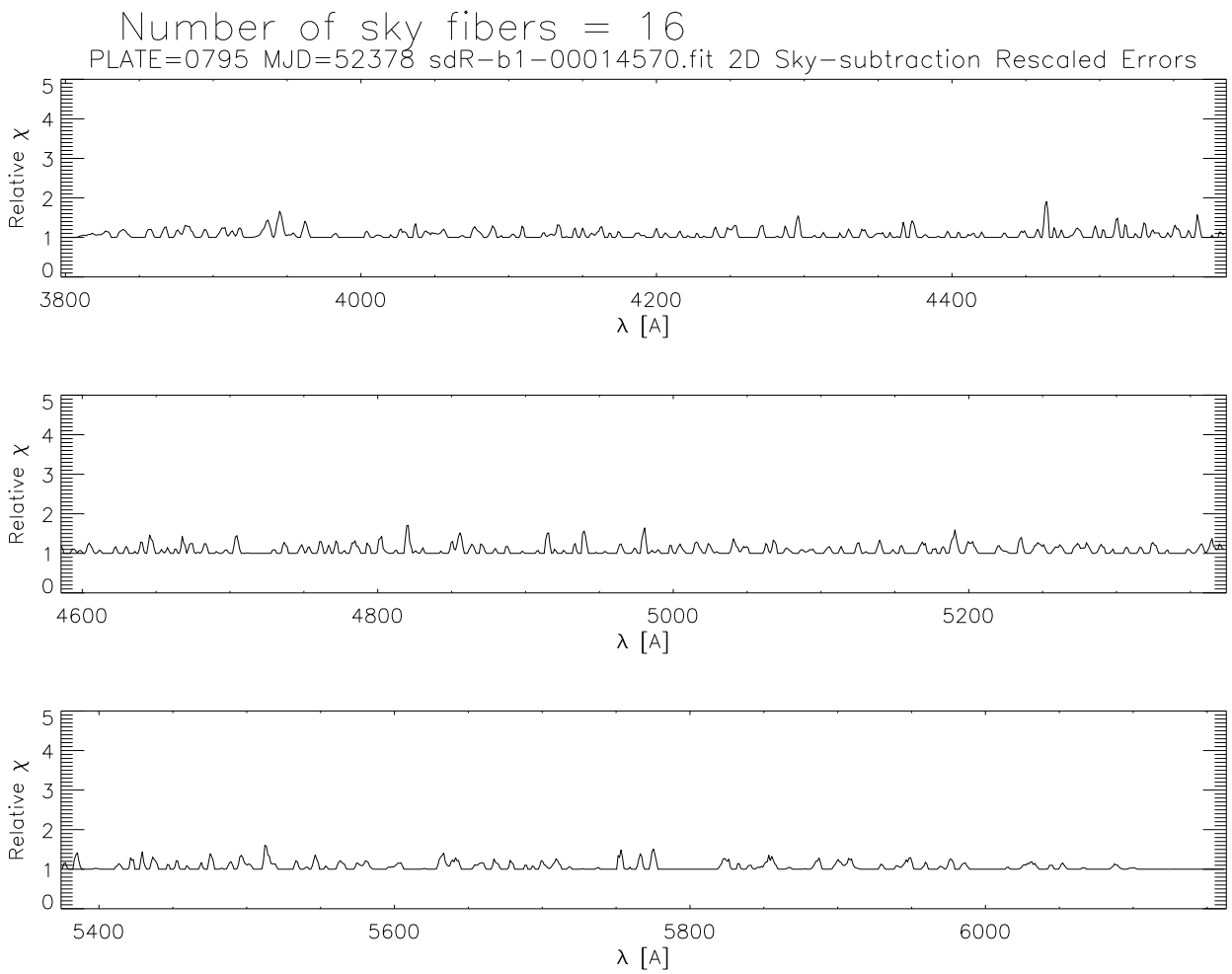

PLATE=0795 MJD=52378 sdR-b1-00014570.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

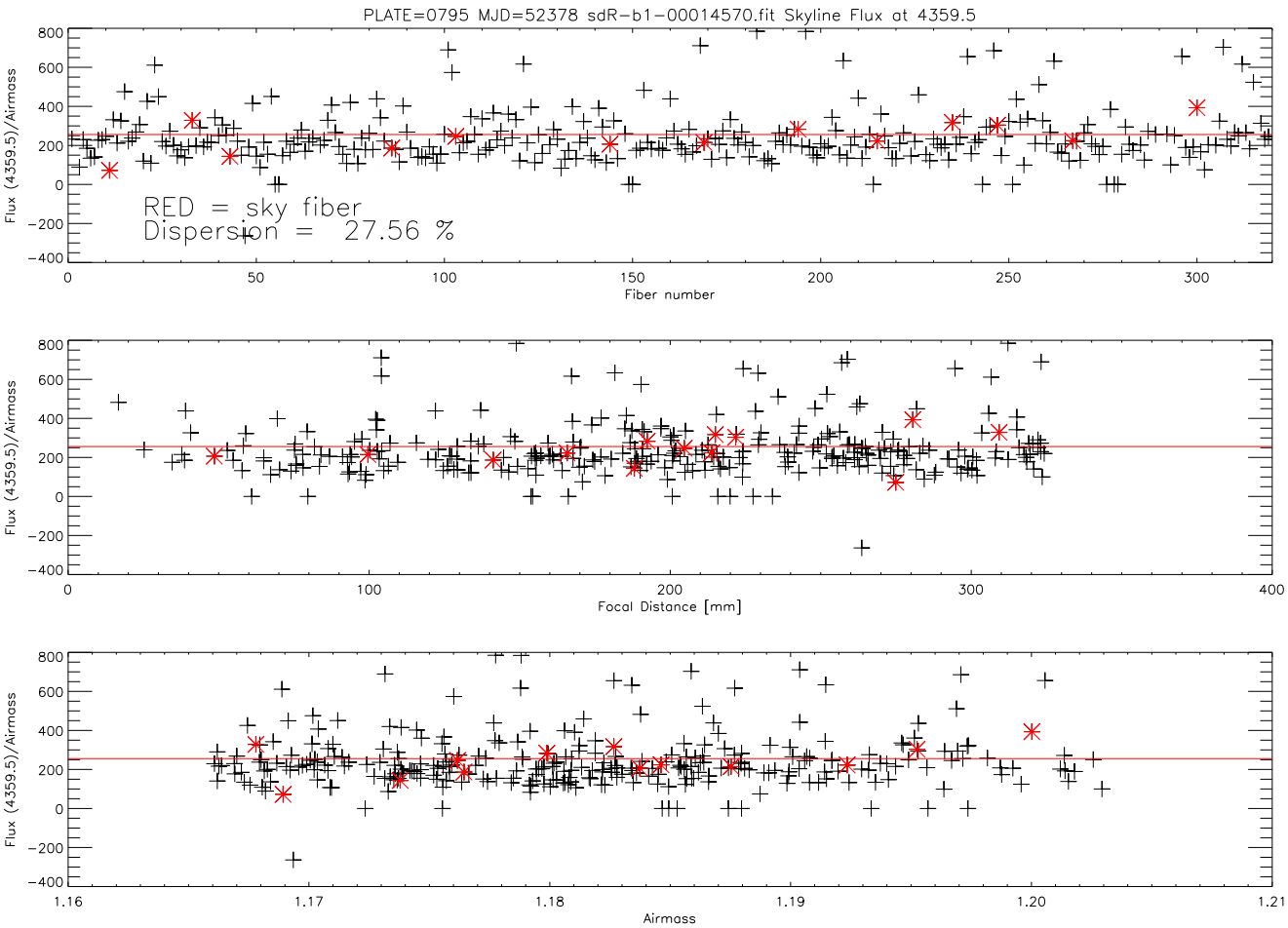

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014570.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

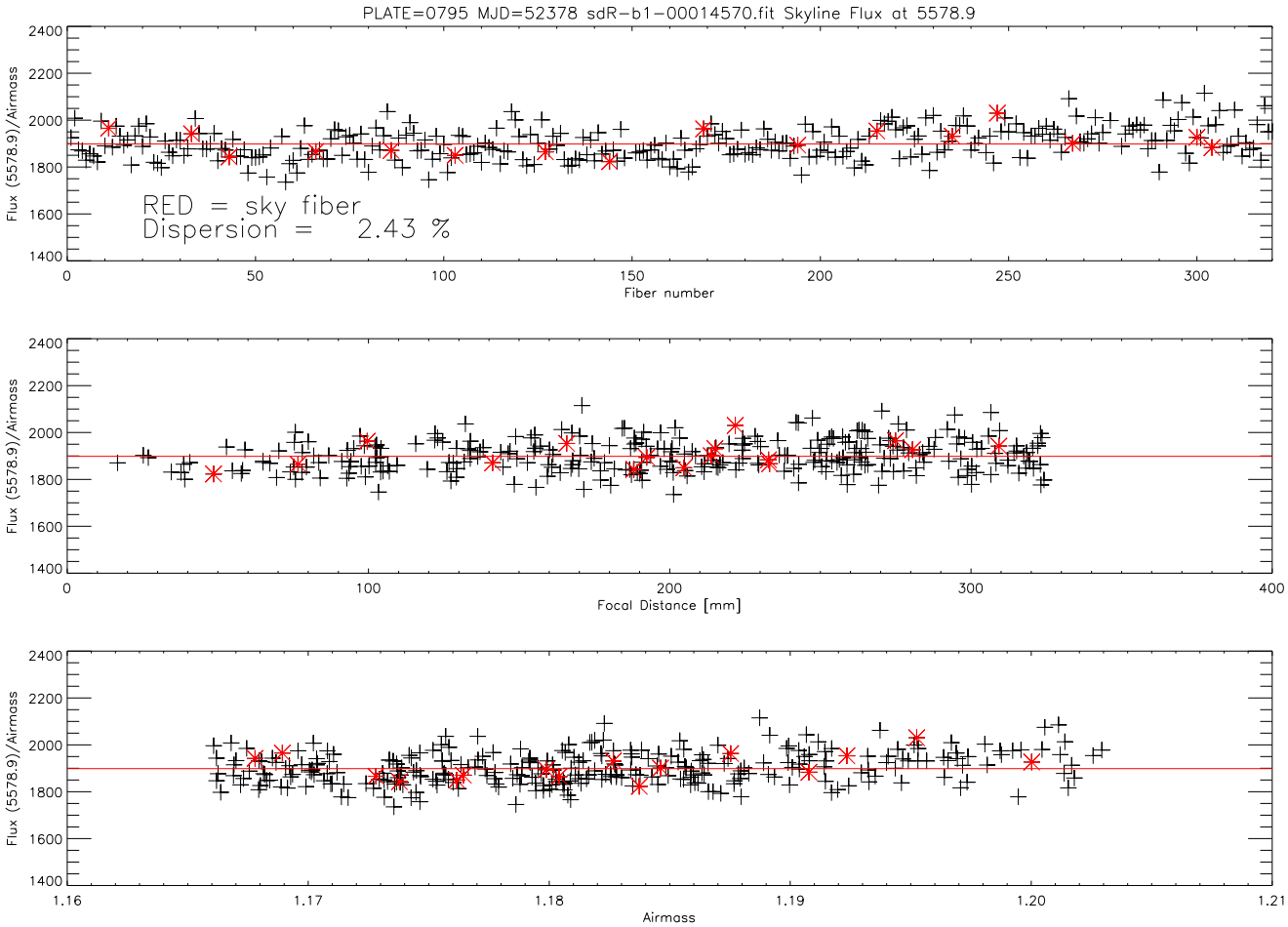

PLATE=0795 MJD=52378 sdR-b1-00014570.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

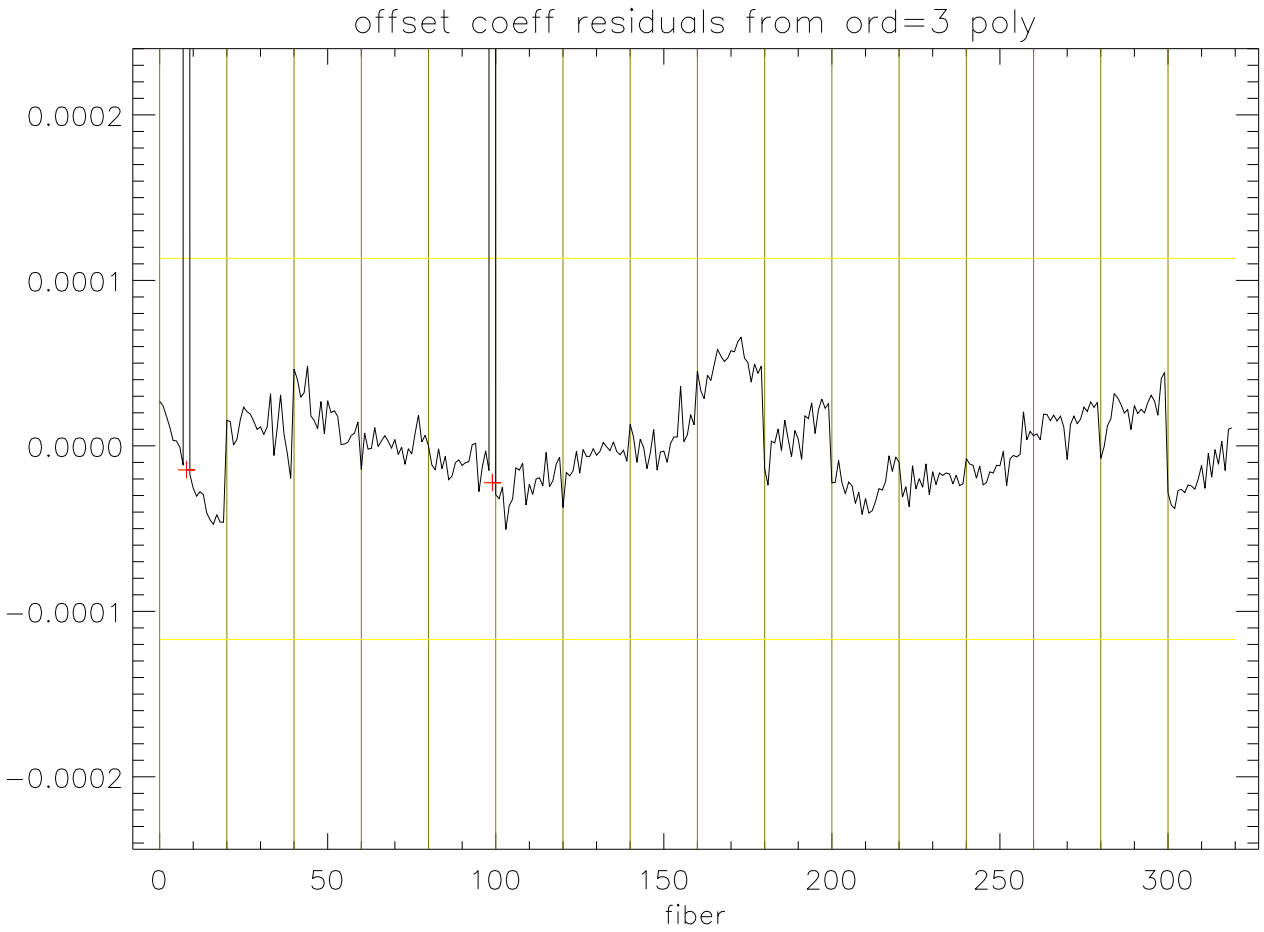

PLATE=0795 MJD=52378 sdR-b1-00014570.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

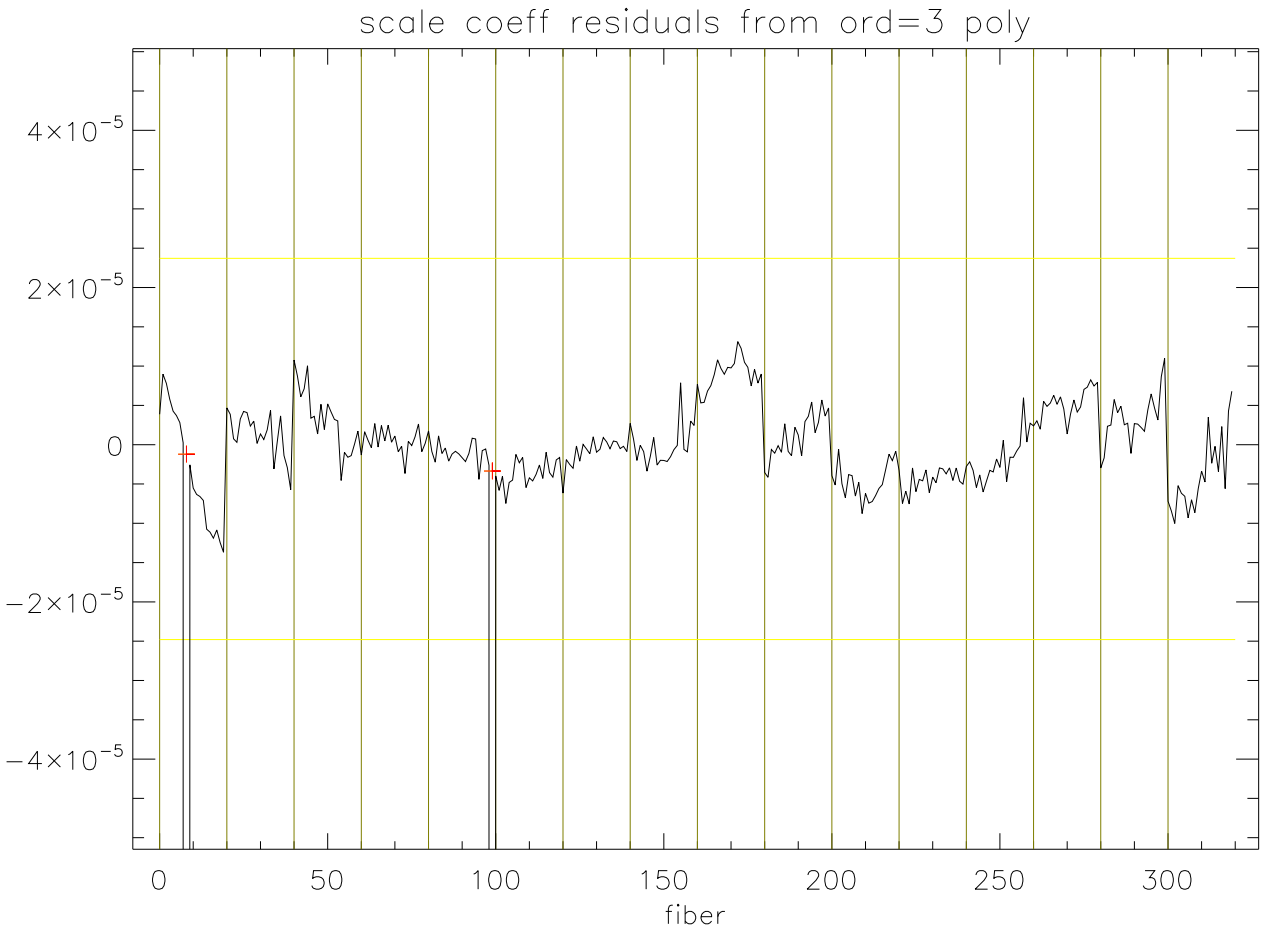

PLATE=0795 MJD=52378 sdR-b1-00014570.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

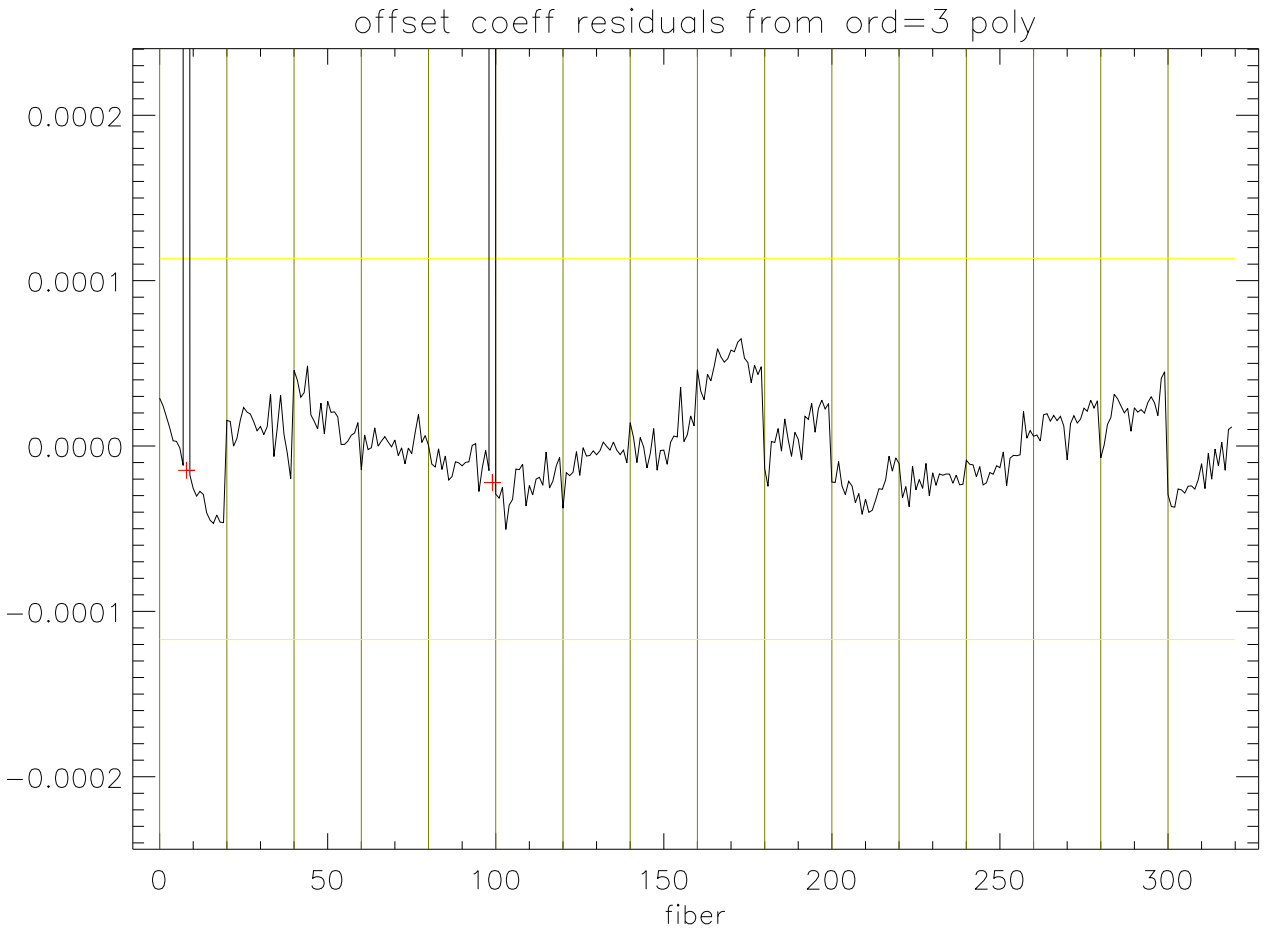

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b1-00014570.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

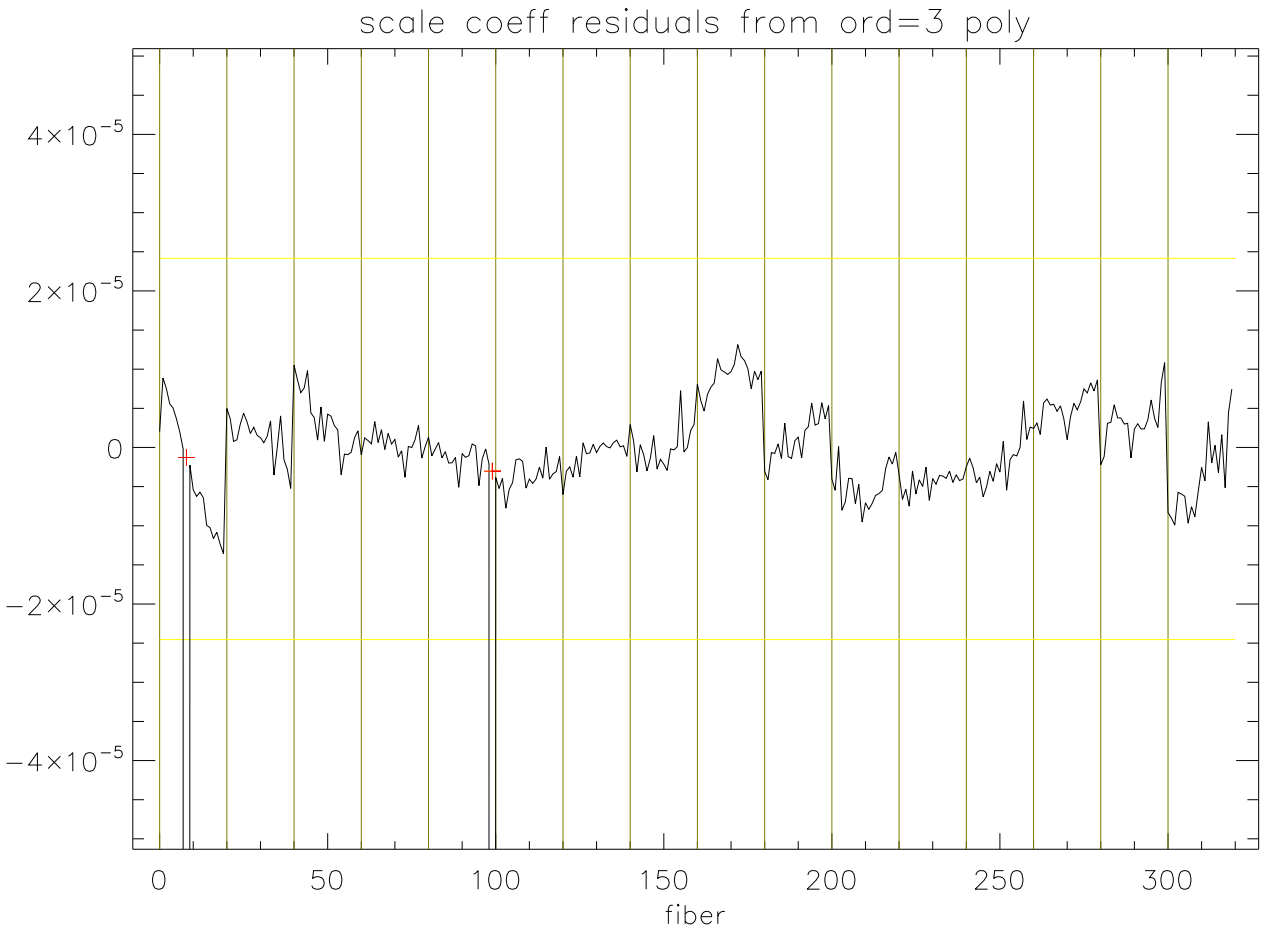

PLATE=0795 MJD=52378 sdR-b1-00014570.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 27.56 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

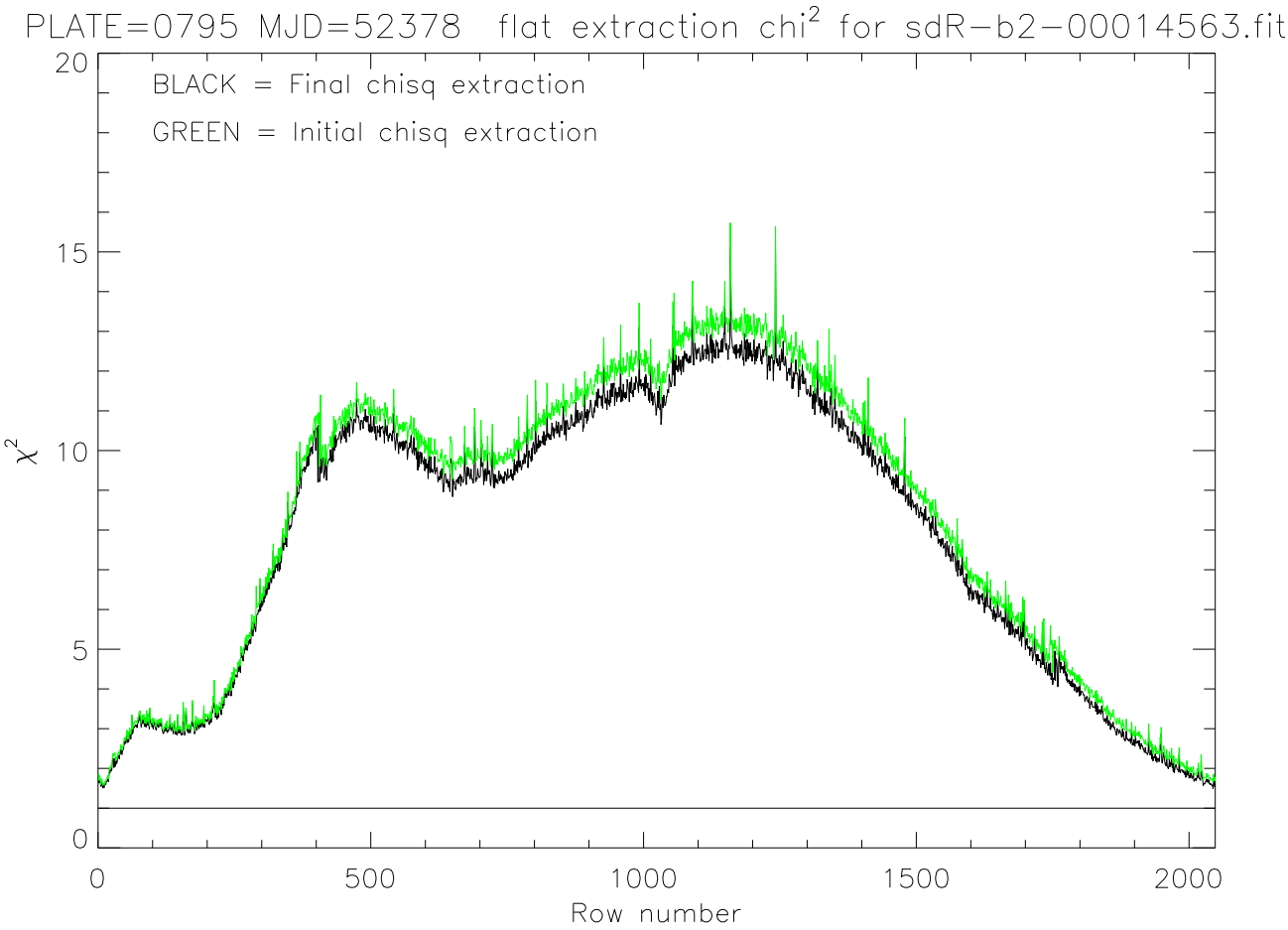

PLATE=0795 MJD=52378 sdR-b1-00014570.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

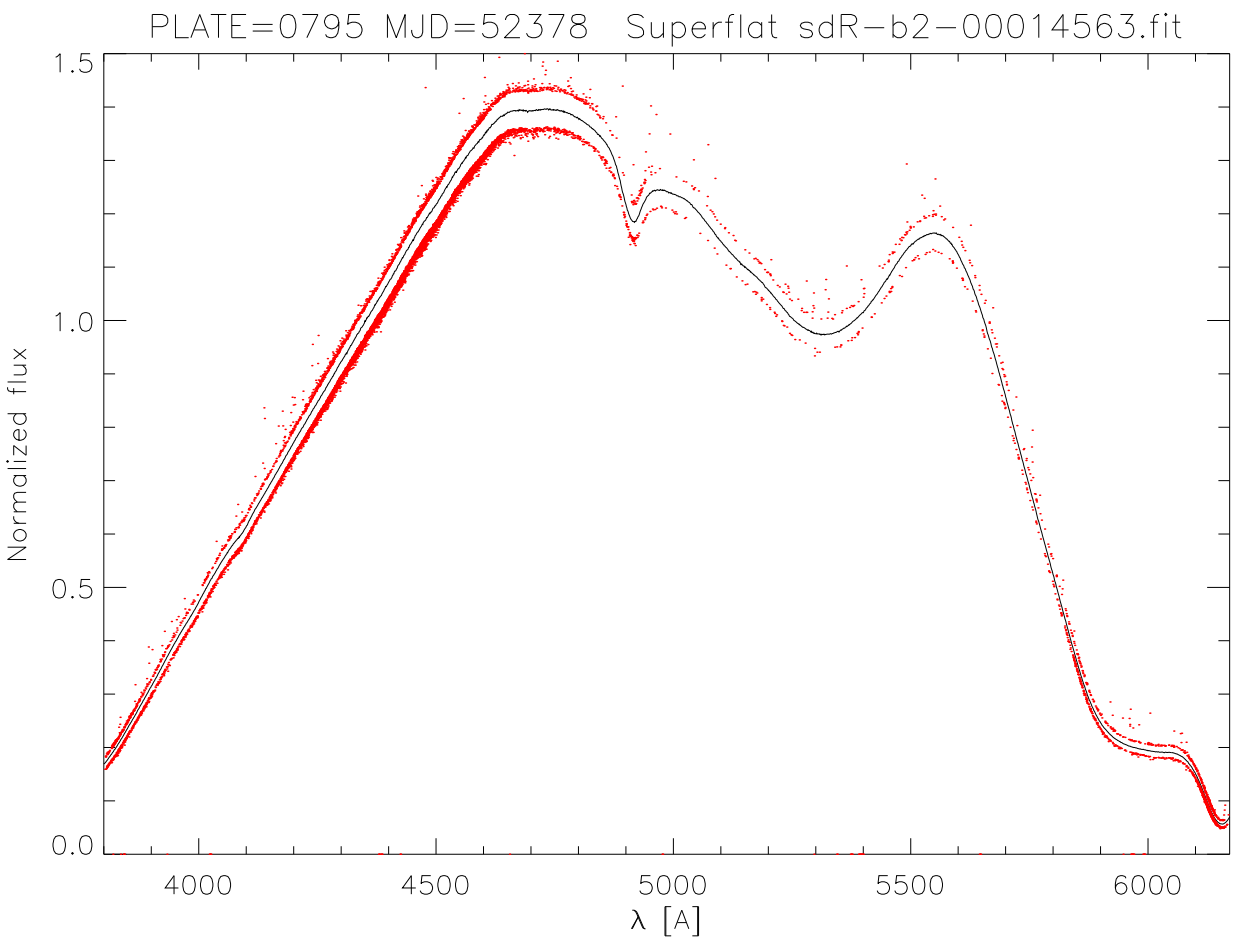

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

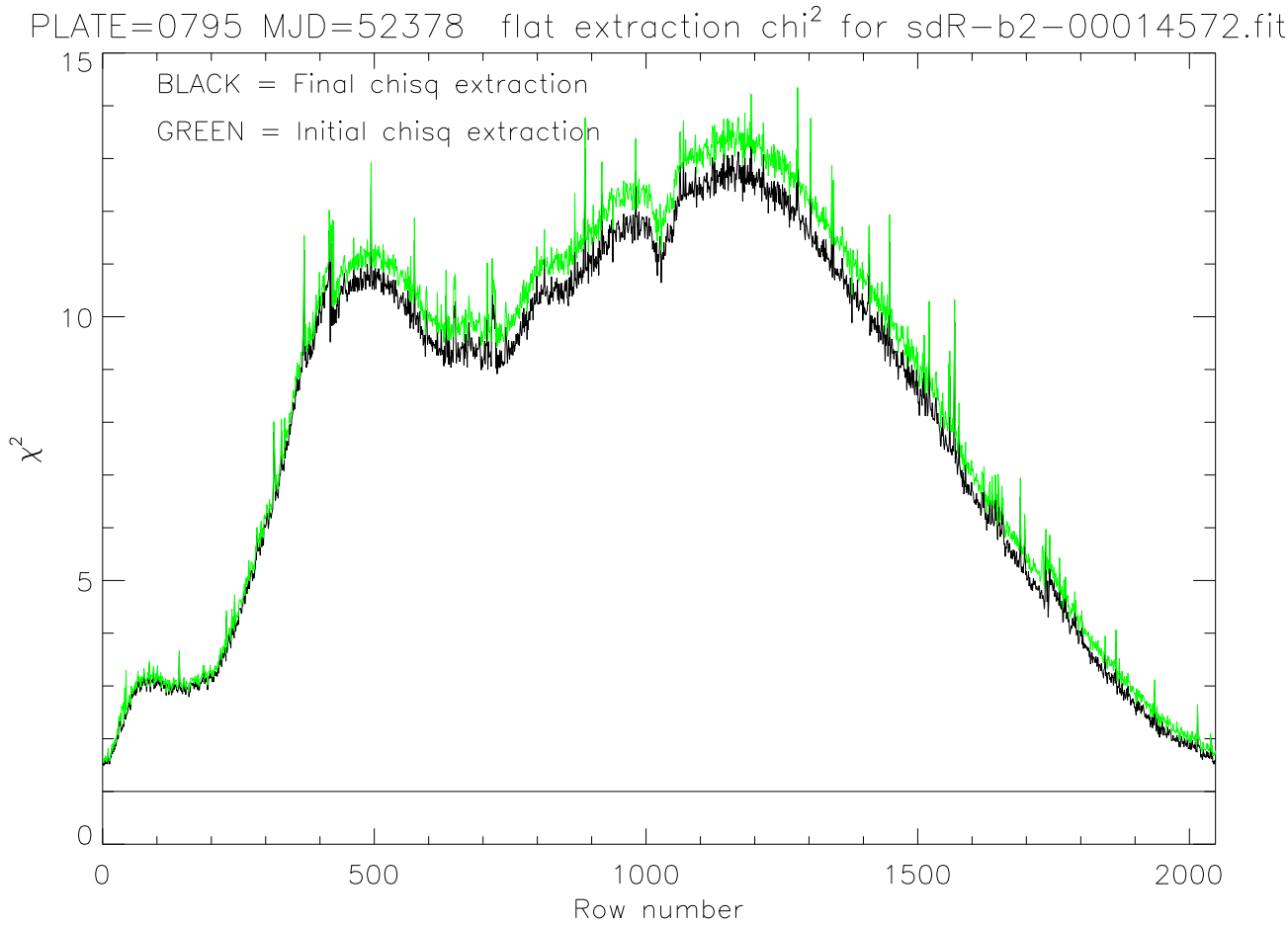

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

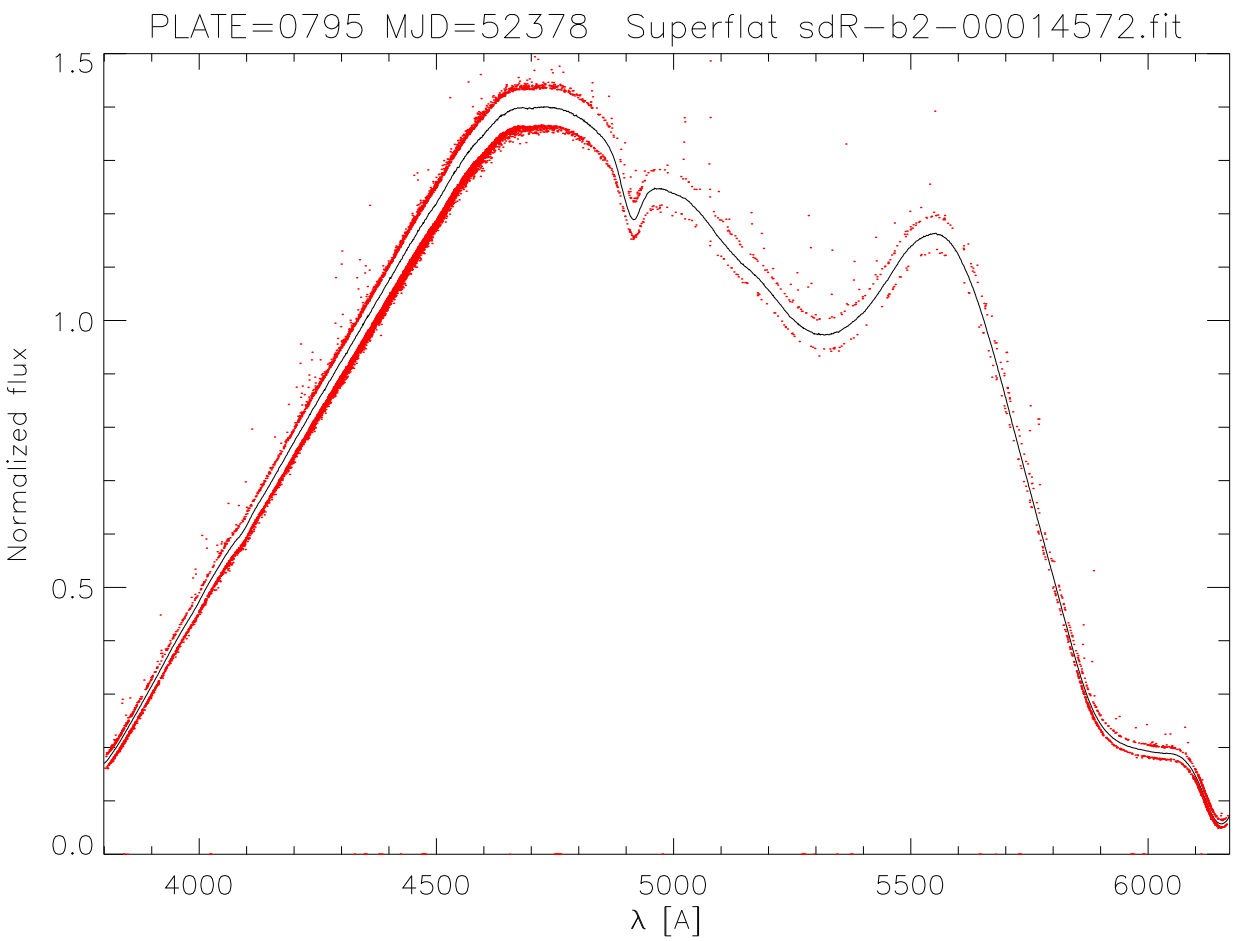

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

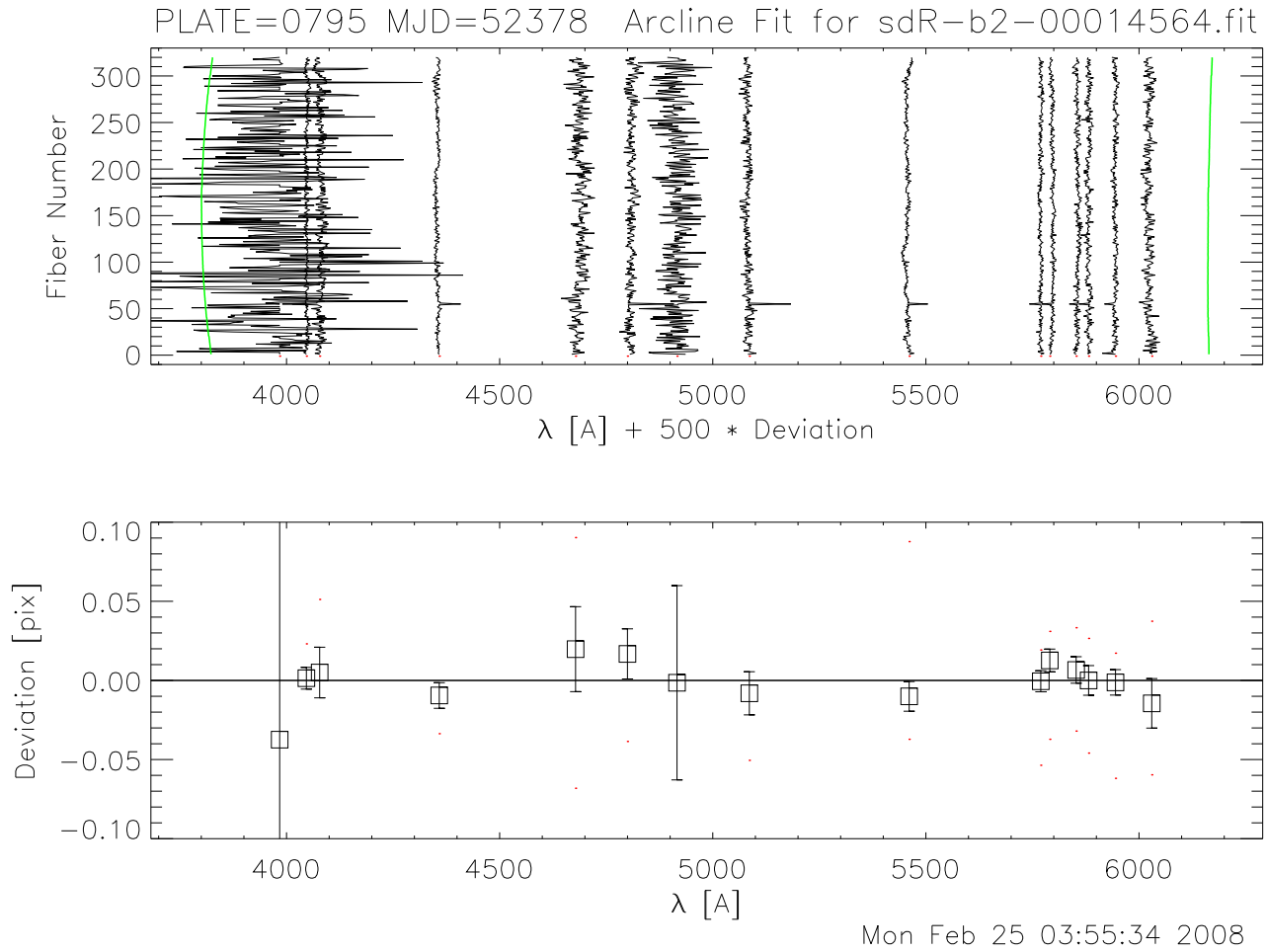

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

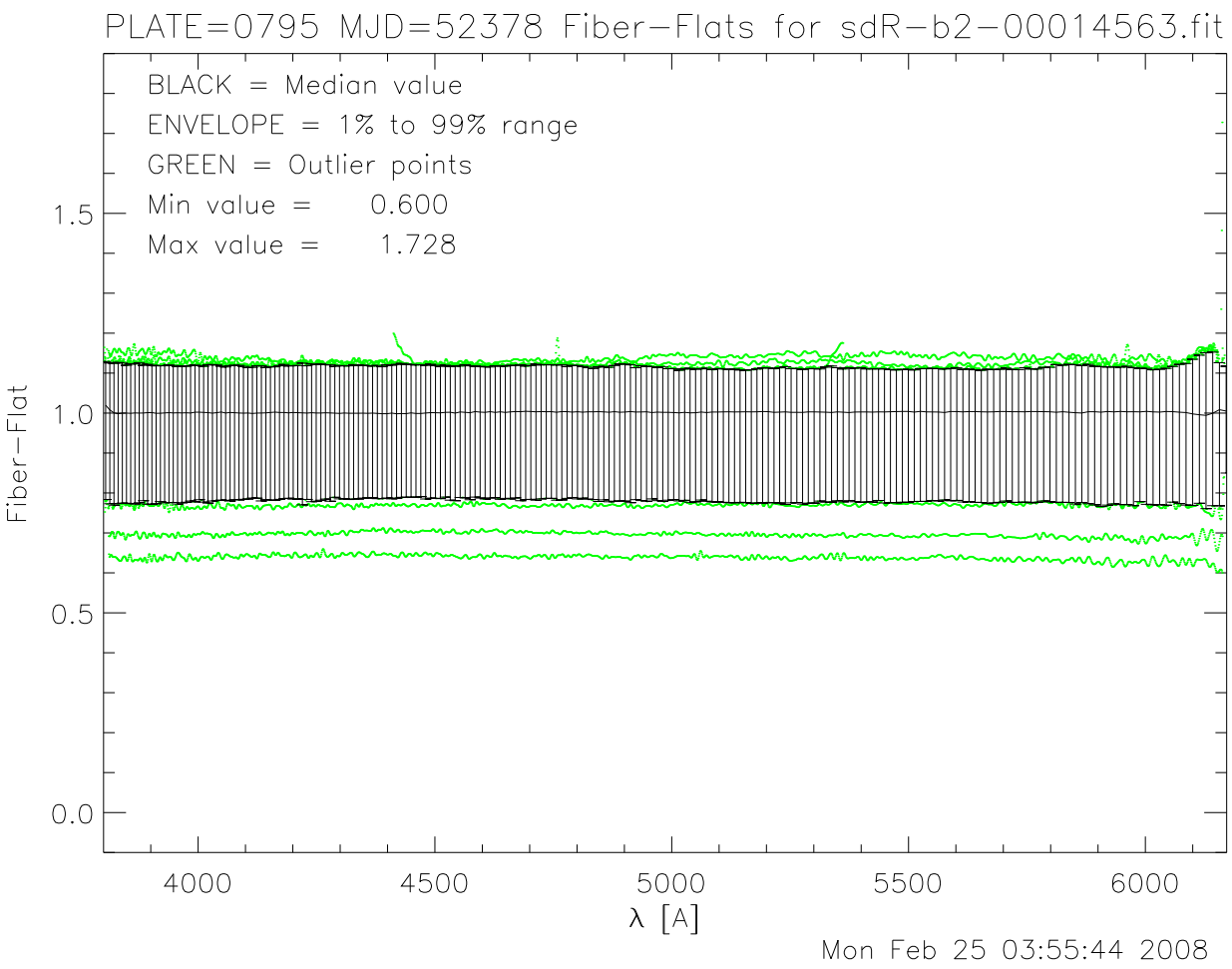

PLATE=0795 MJD=52378 flat extraction chi^2 for sdR−b2−00014563.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

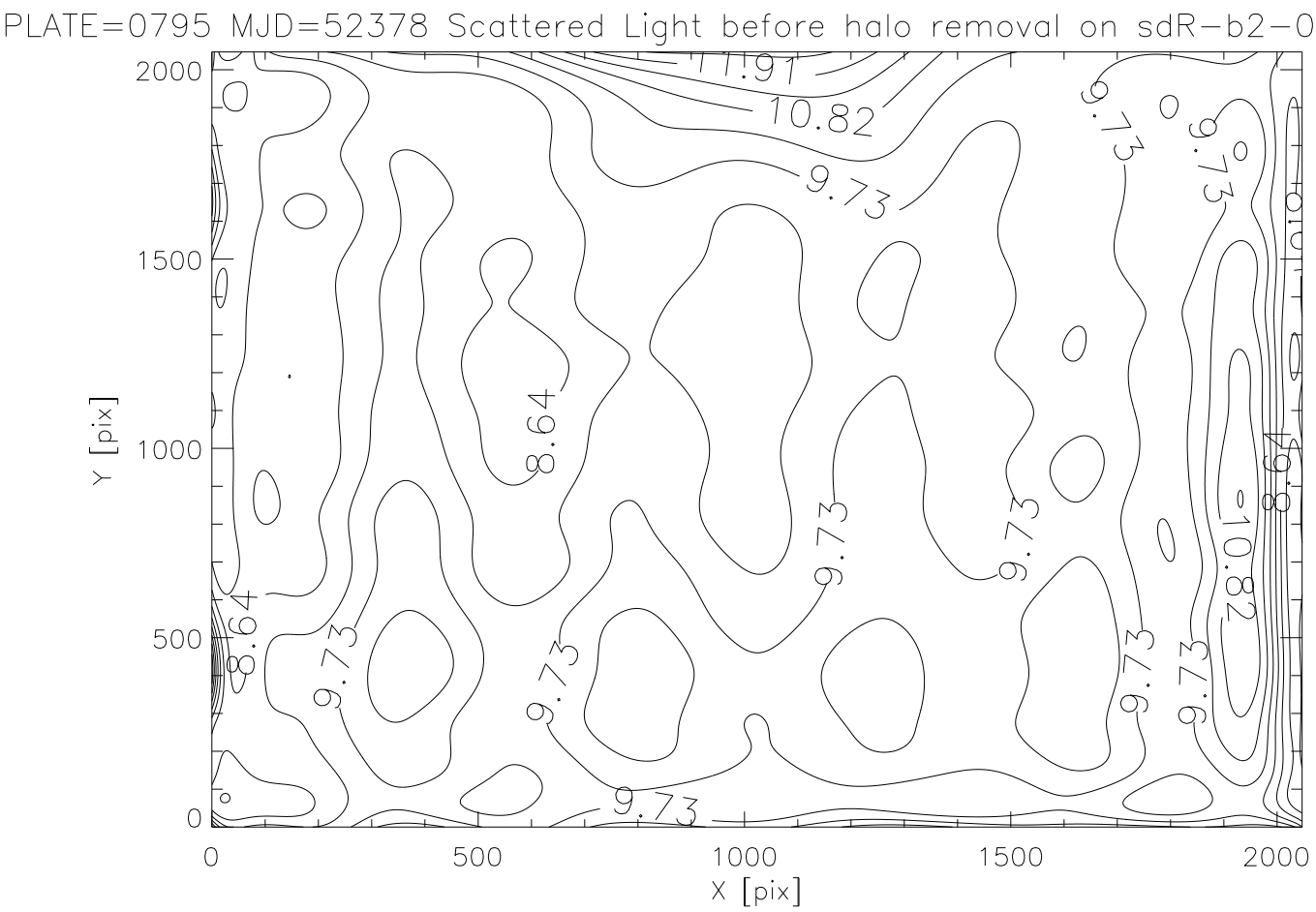

PLATE=0795 MJD=52378 Superflat sdR-b2-00014563.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

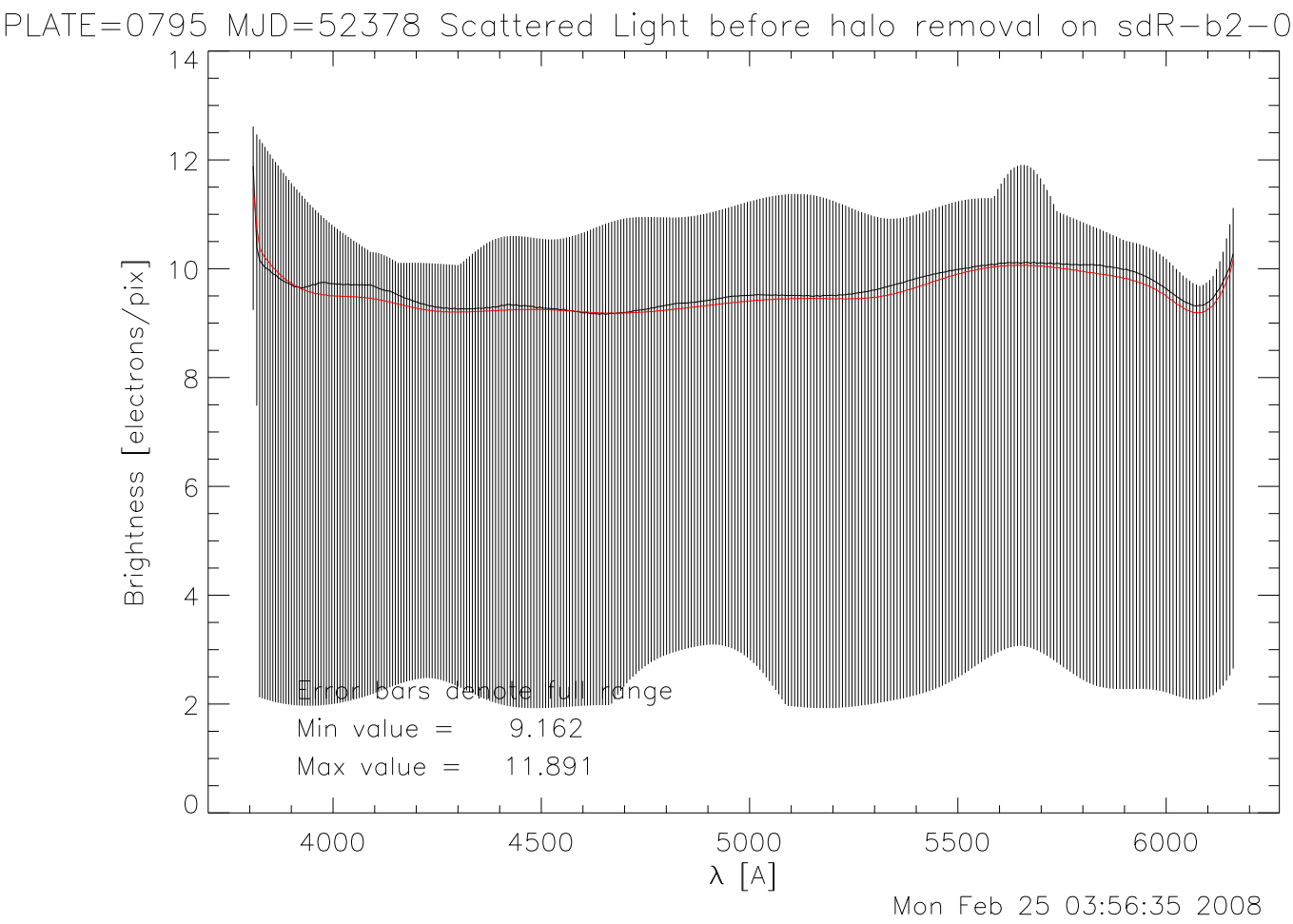

PLATE=0795 MJD=52378 flat extraction chi^2 for sdR−b2−00014572.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

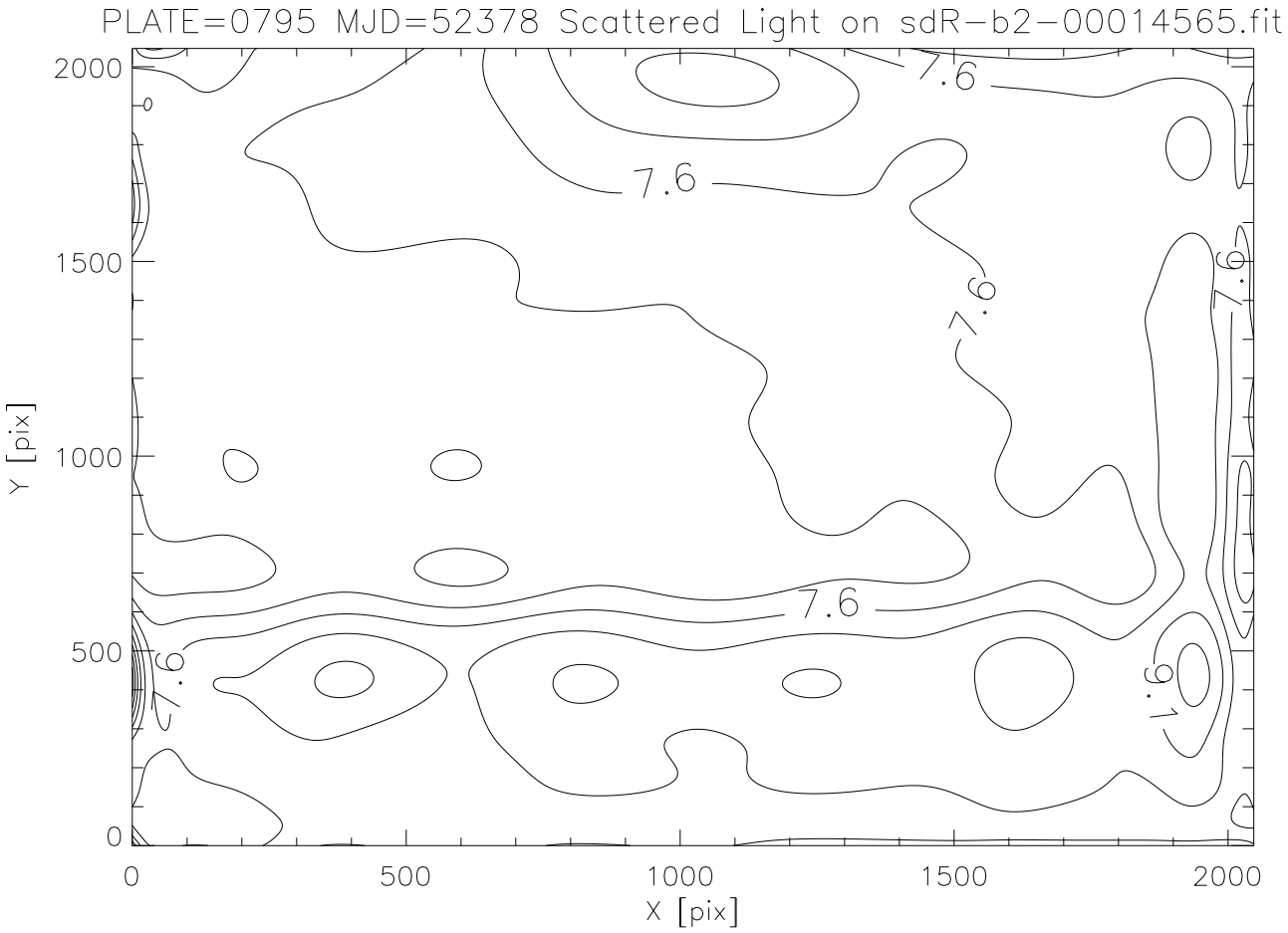

PLATE=0795 MJD=52378 Superflat sdR-b2-00014572.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

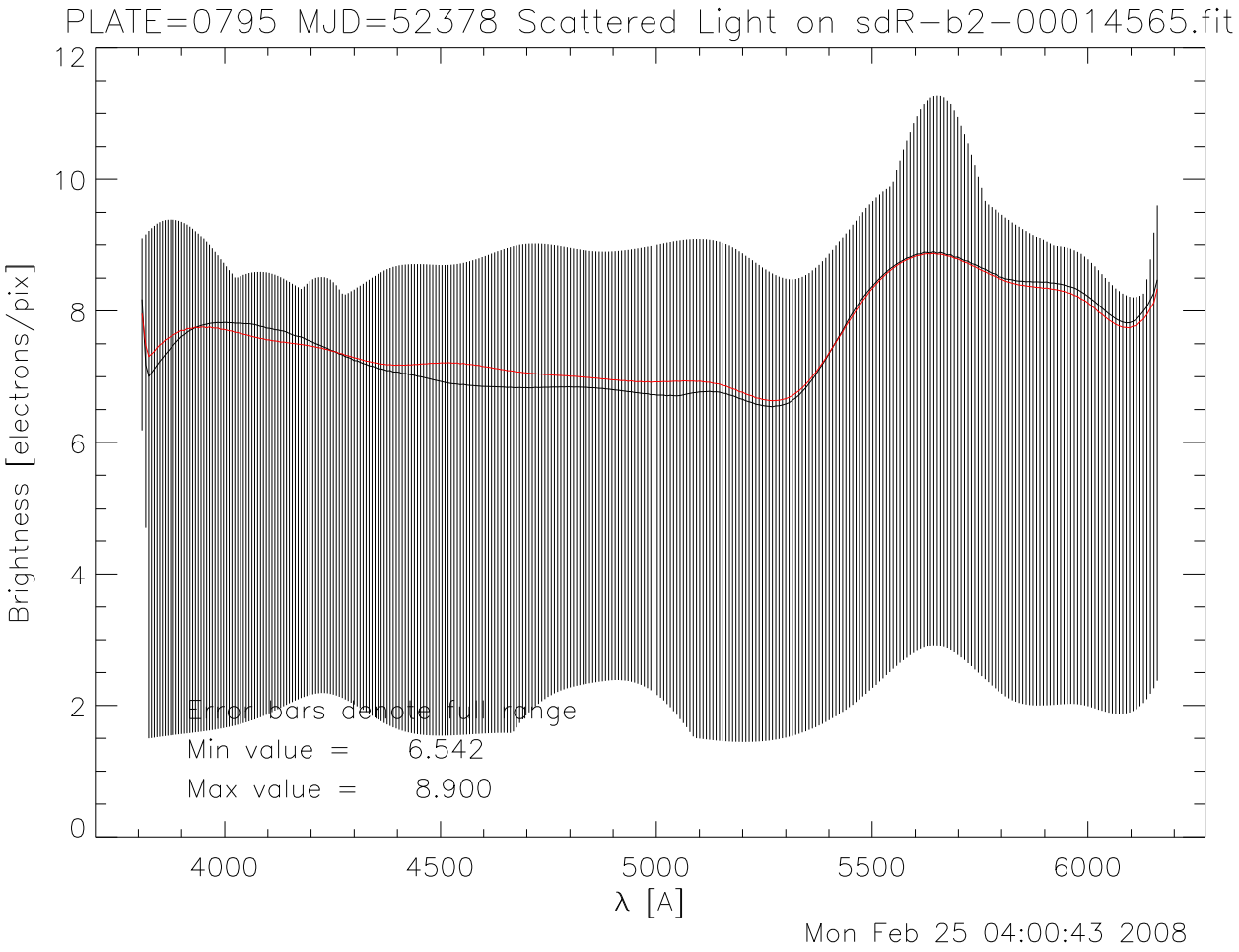

PLATE=0795 MJD=52378 Arcline Fit for sdR-b2-00014564.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:55:34 2008

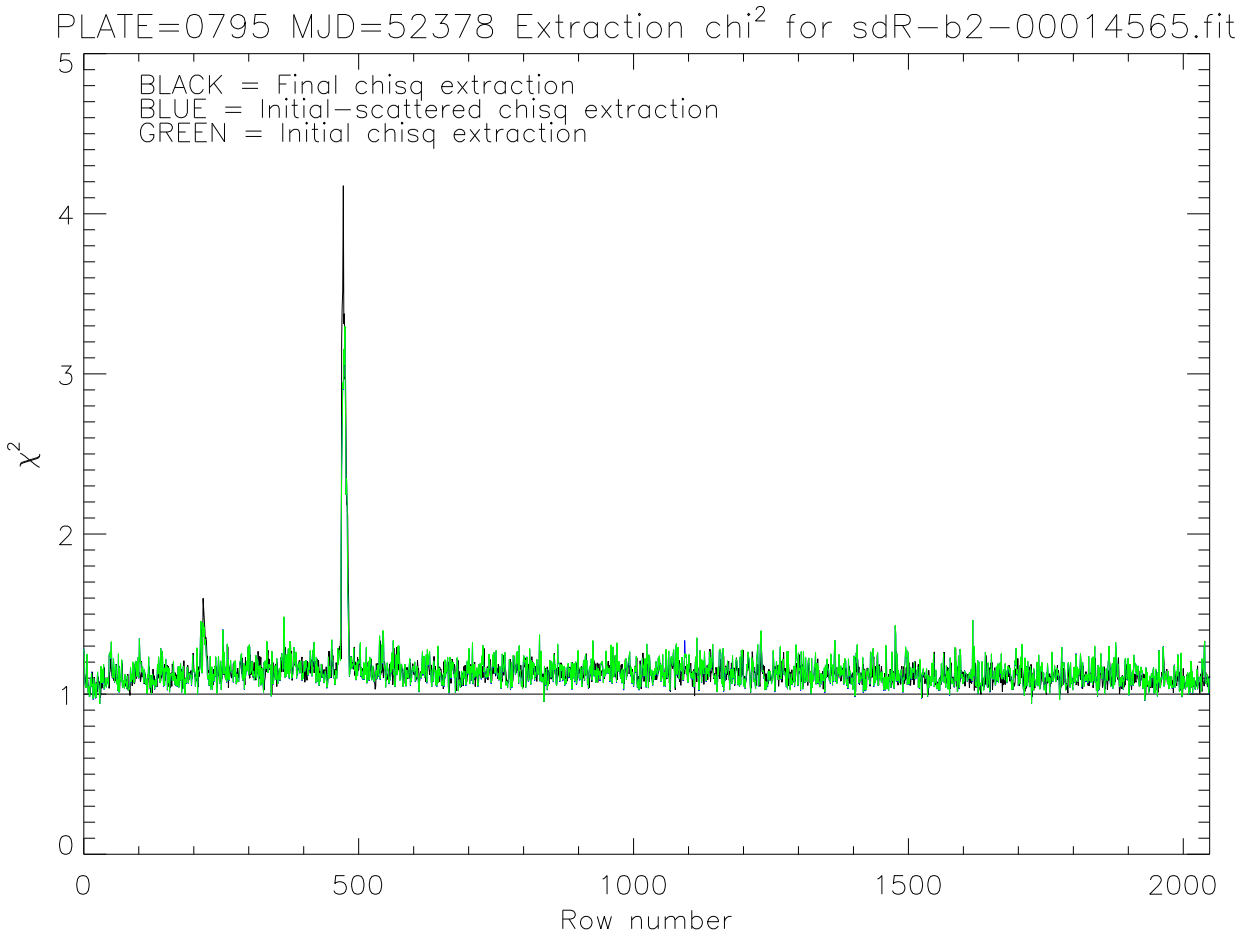

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.600
Max value = 1.728
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 03:55:44 2008

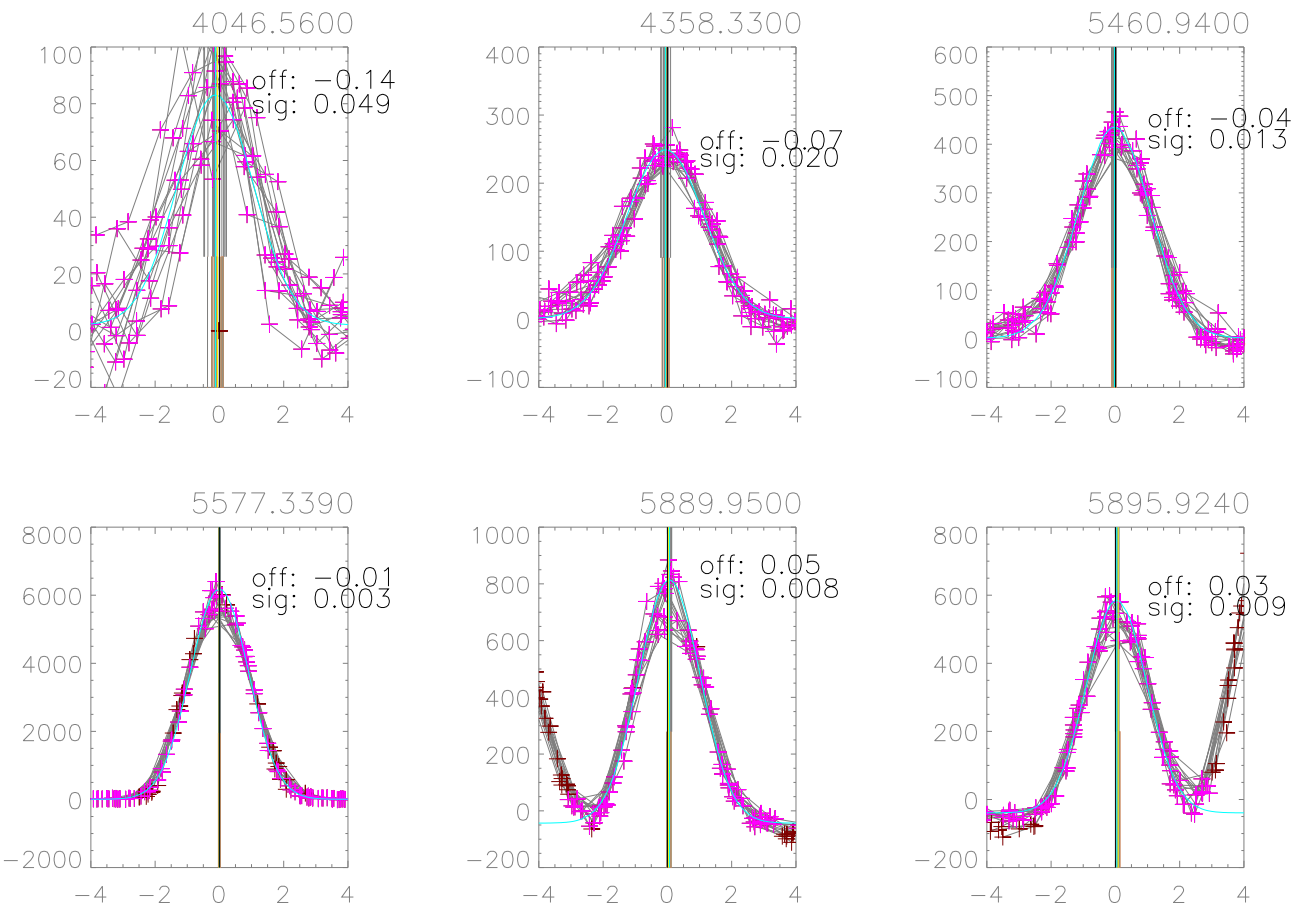

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014565.f
11.91
10.82
9.73
8.64
-10.82
Y [pix]
X [pix]
0
500
1000
1500
2000

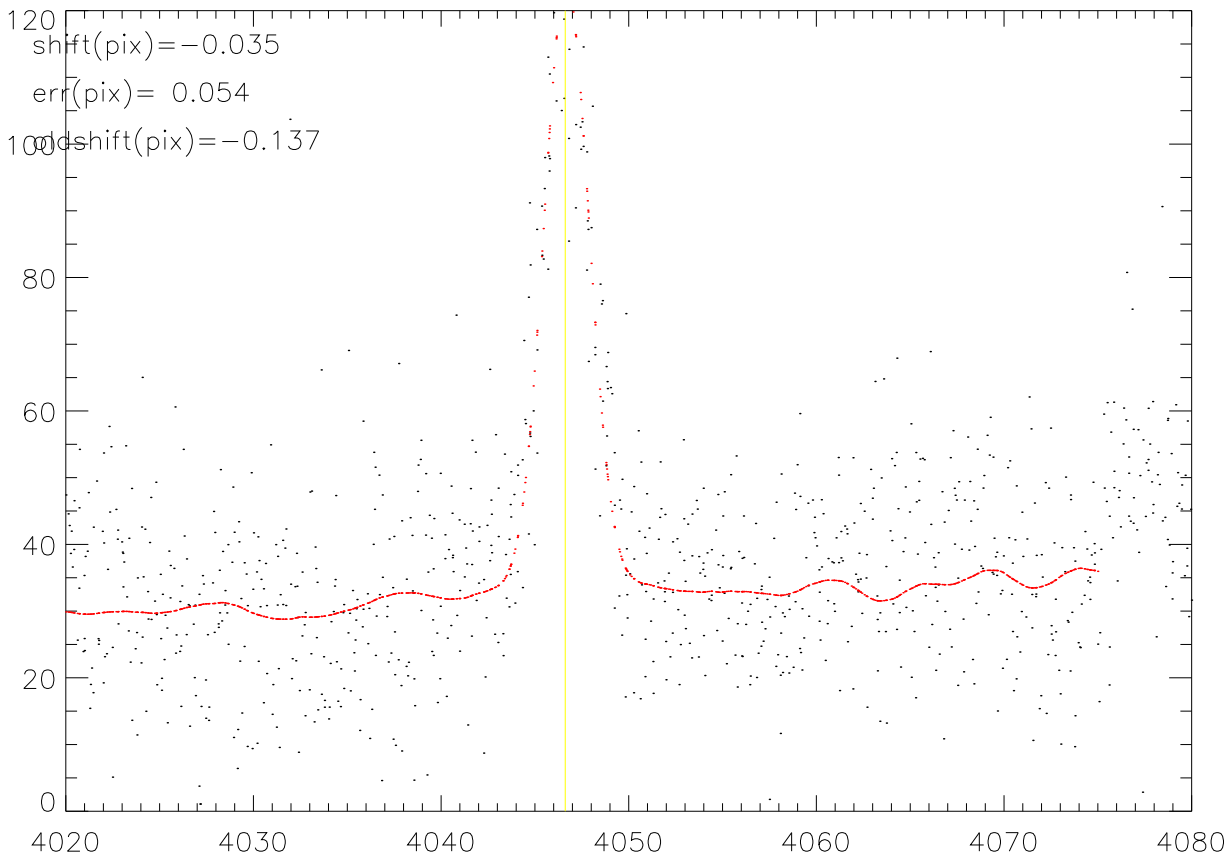

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014565.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.162
Max value = 11.891
Mon Feb 25 03:56:35 2008

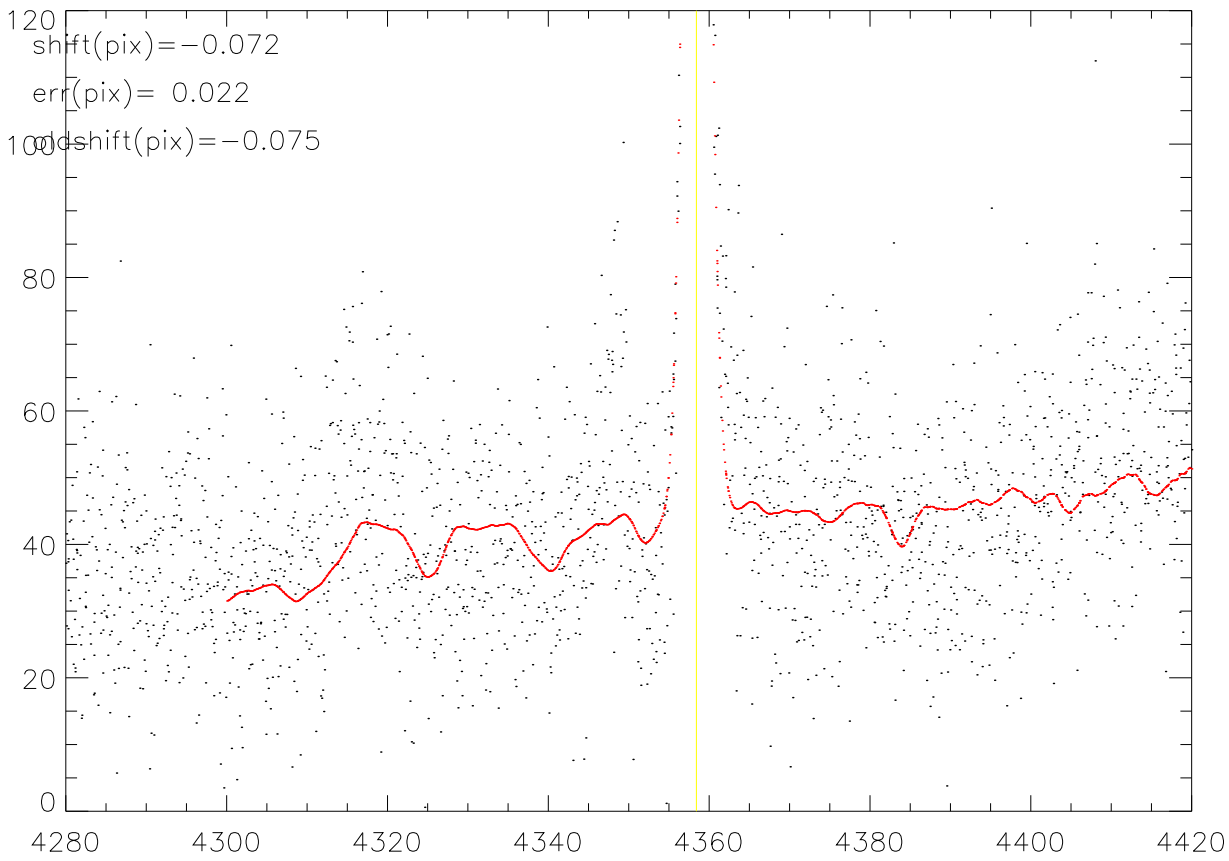

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014565.fit
7.6
7.6
7.6
7.6
7.6
7.6
7.6
Y [pix]
X [pix]
0
500
1000
1500
2000

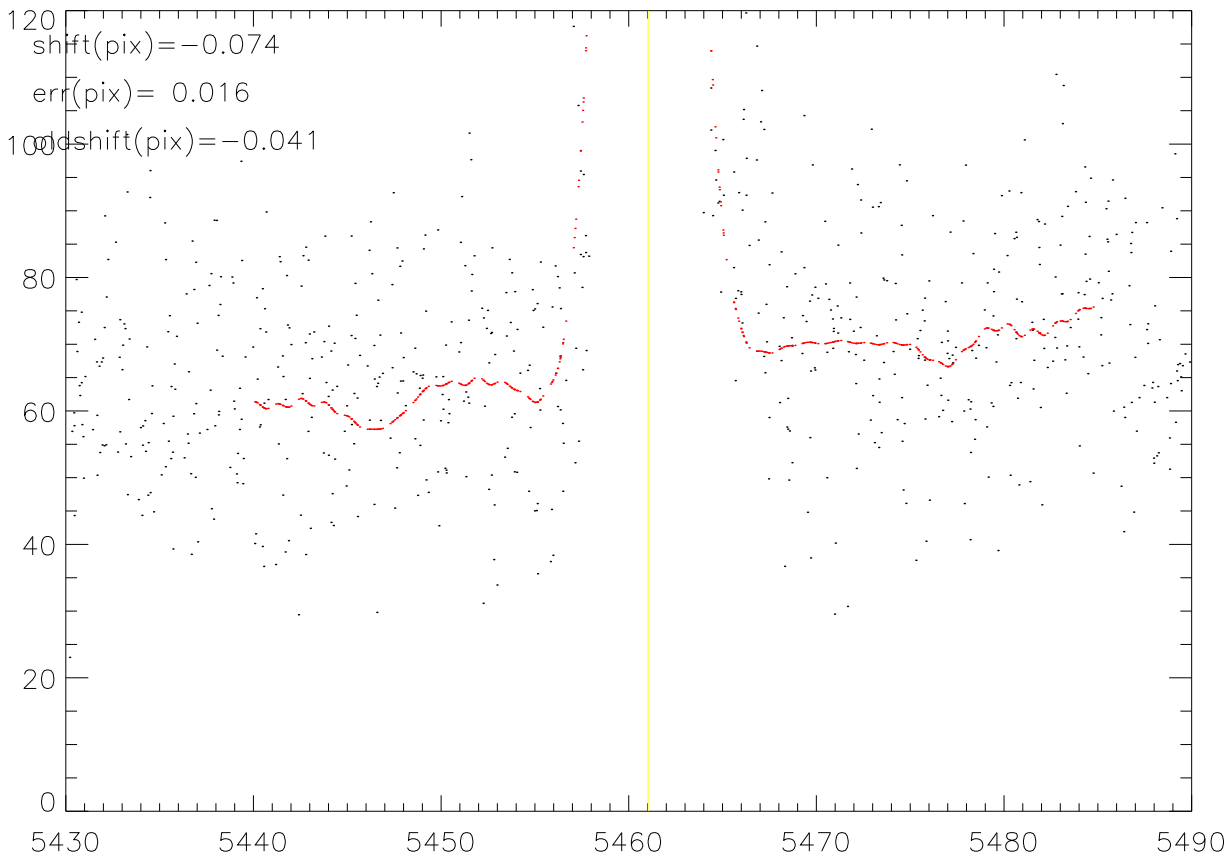

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014565.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.542
Max value = 8.900
Mon Feb 25 04:00:43 2008

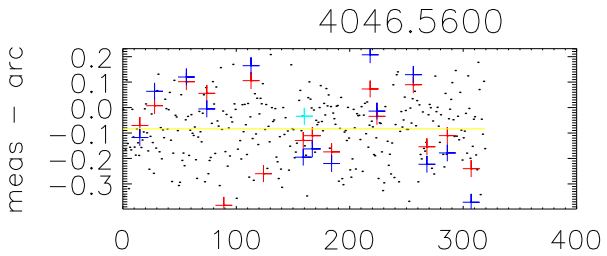

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b2-00014565.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

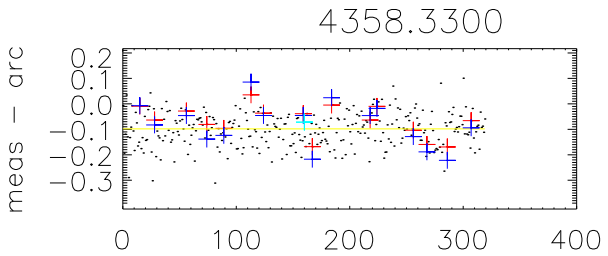

4046.5600
off: −0.14
sig: 0.049
4358.3300
off: −0.07
sig: 0.020
5460.9400
off: −0.04
sig: 0.013
5577.3390
off: −0.01
sig: 0.003
5889.9500
off: 0.05
sig: 0.008
5895.9240
off: 0.03
sig: 0.009

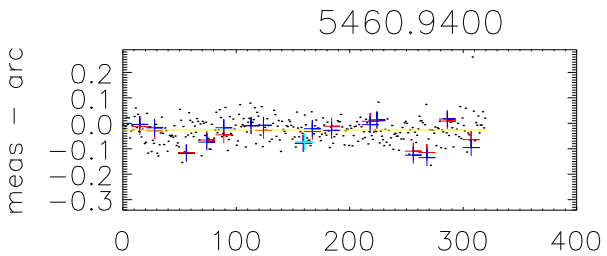

shift(pix)=−0.035
err(pix)= 0.054
oldshift(pix)=−0.137
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

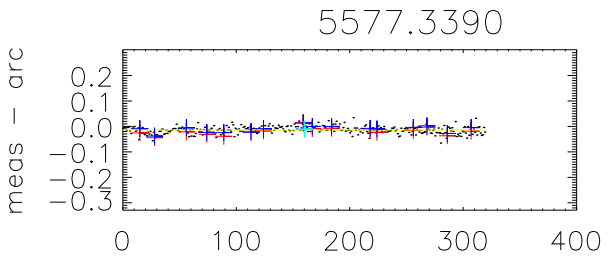

shift(pix)=−0.072
err(pix)= 0.022
oldshift(pix)=−0.075
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

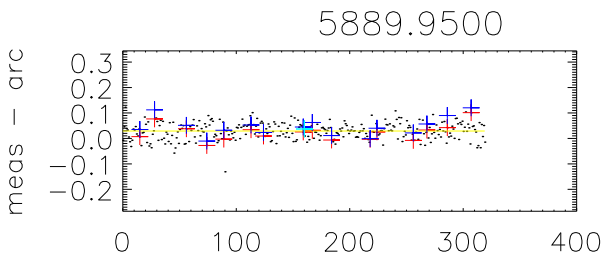

shift(pix)=−0.074
err(pix)= 0.016
oldshift(pix)=−0.041
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

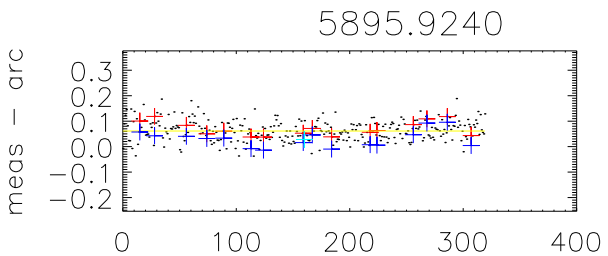

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

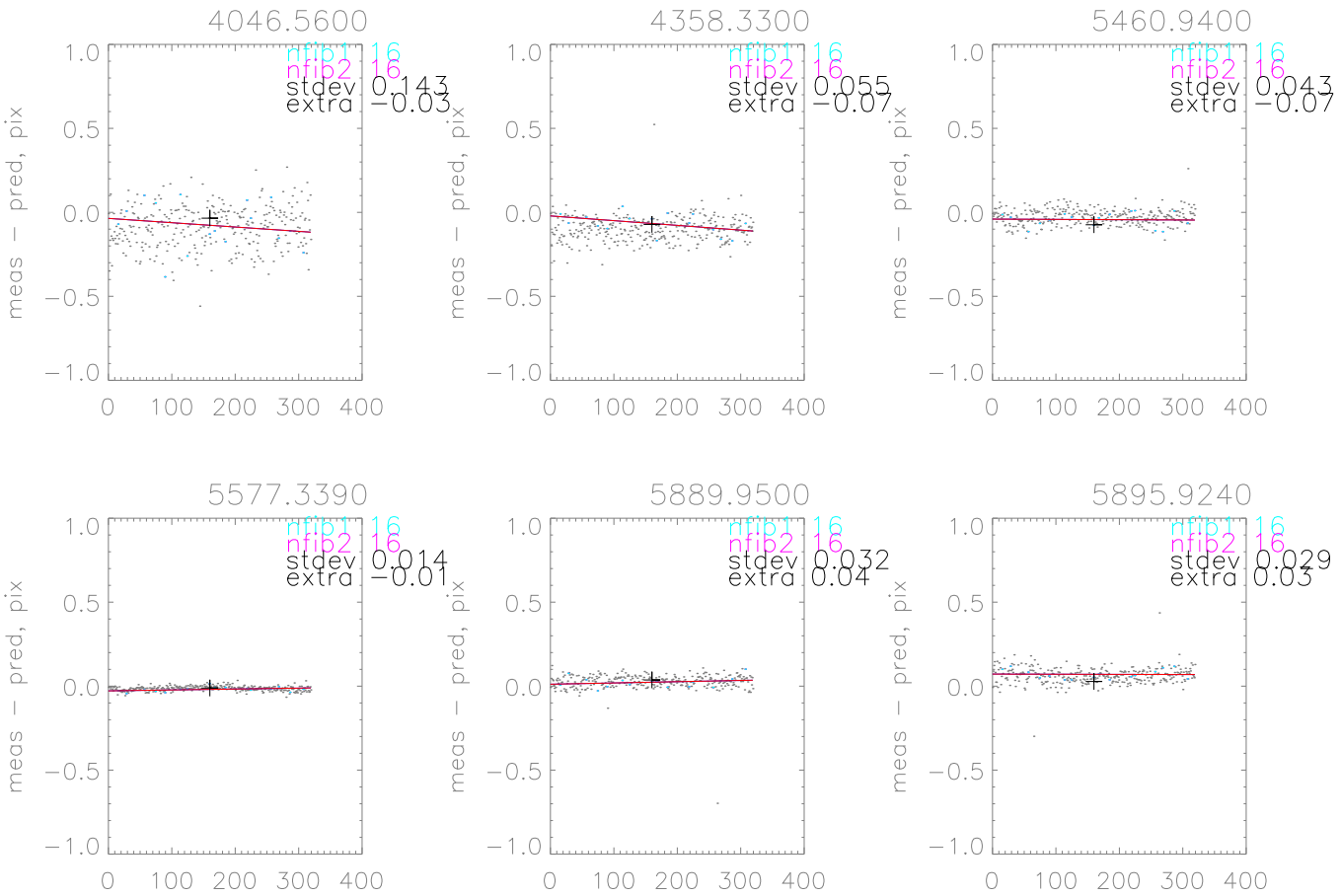

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

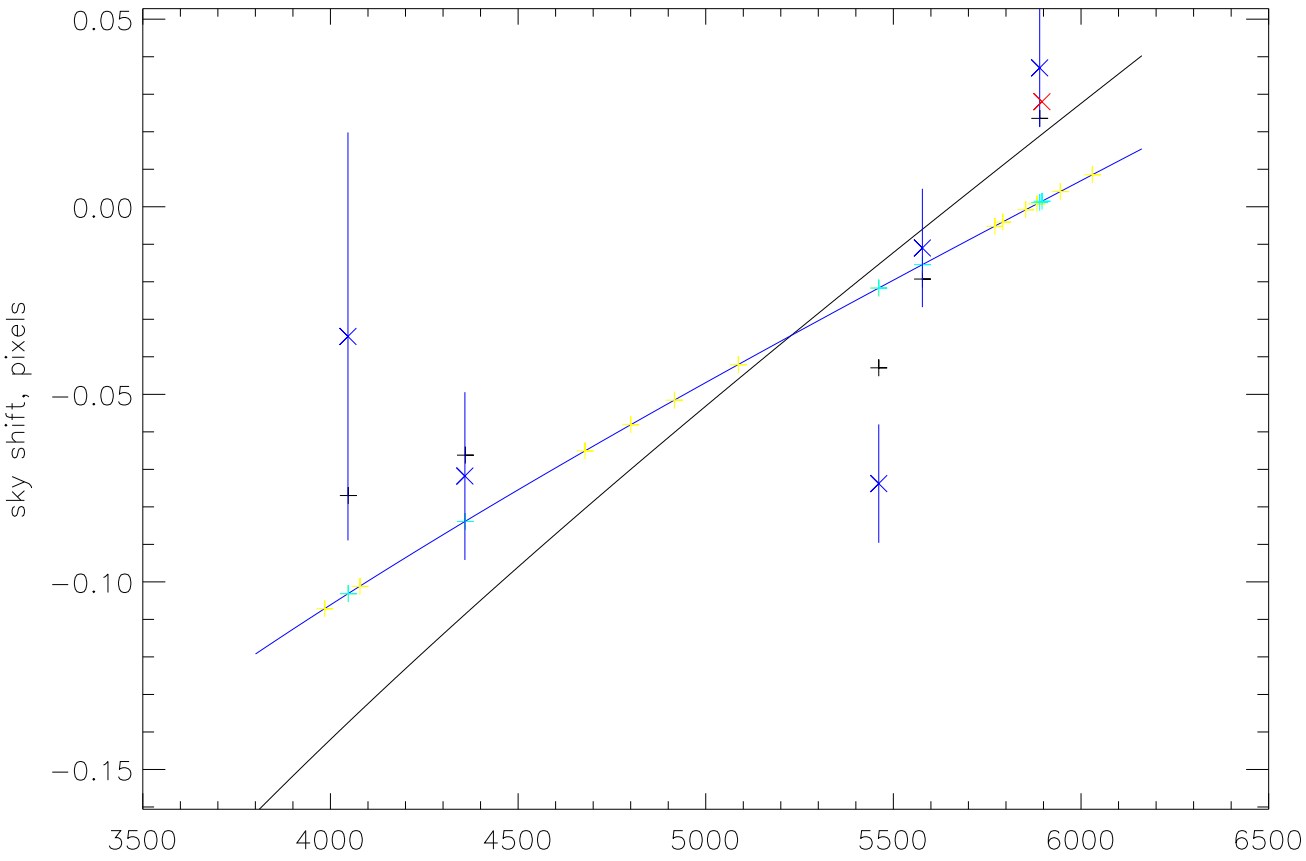

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

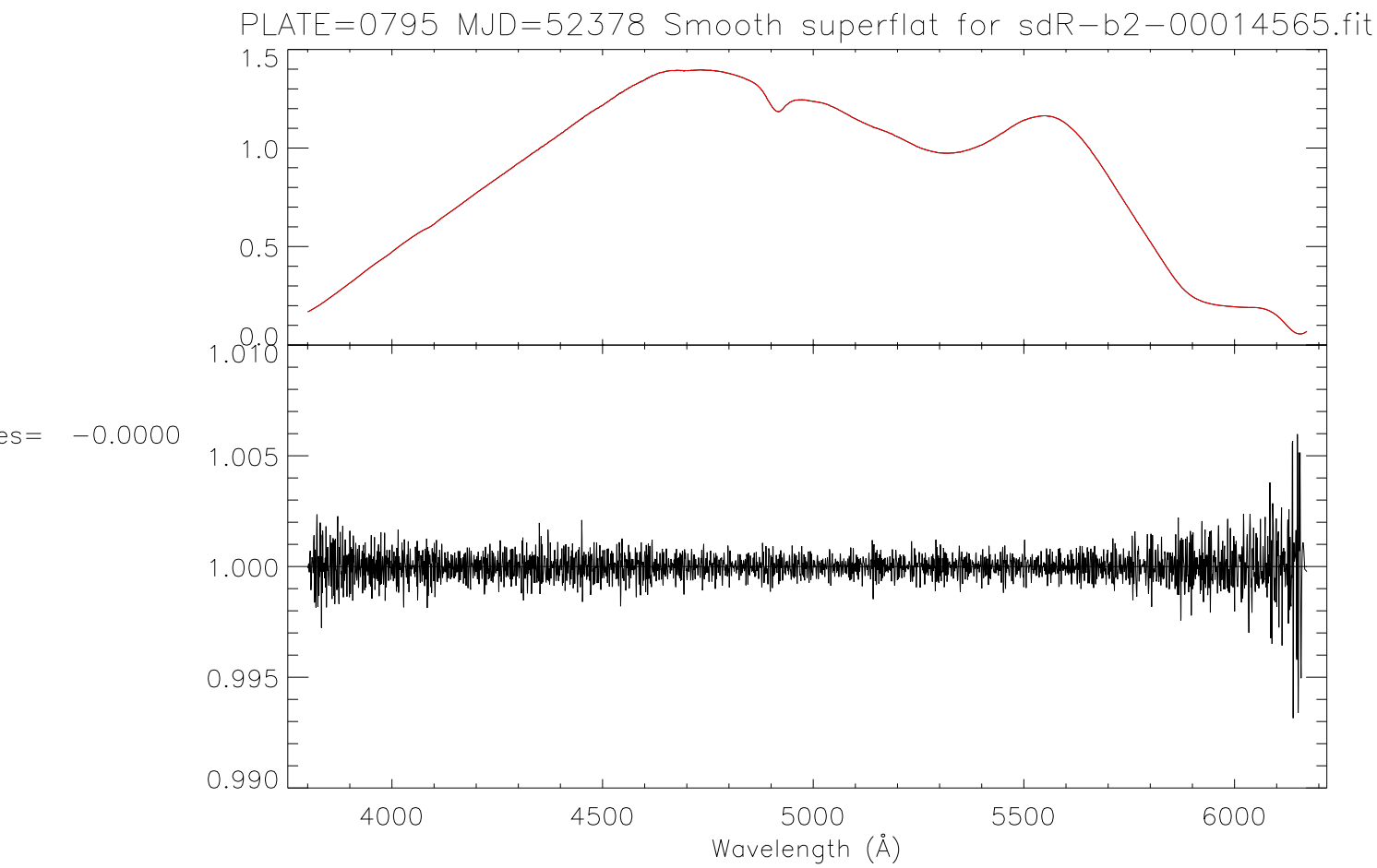

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

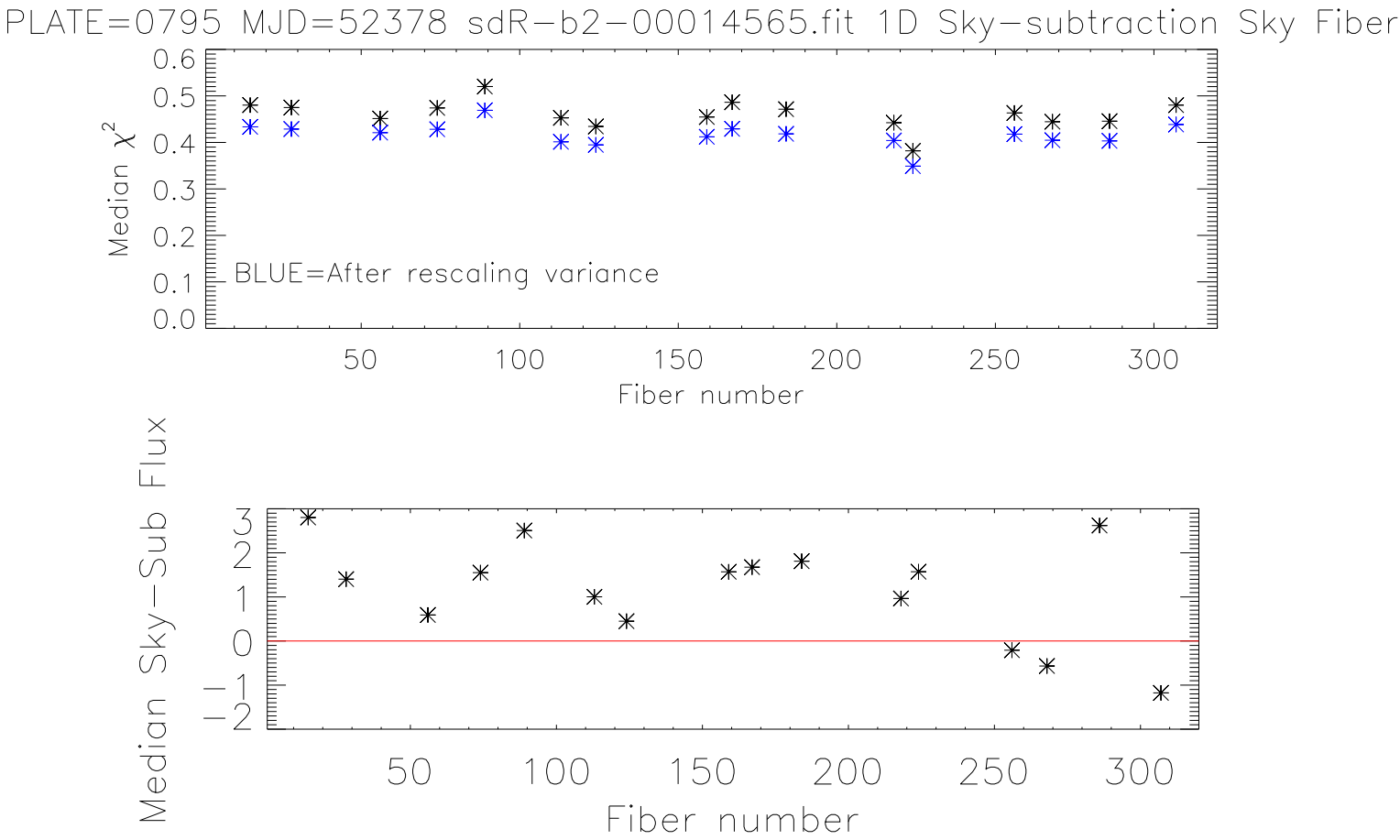

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

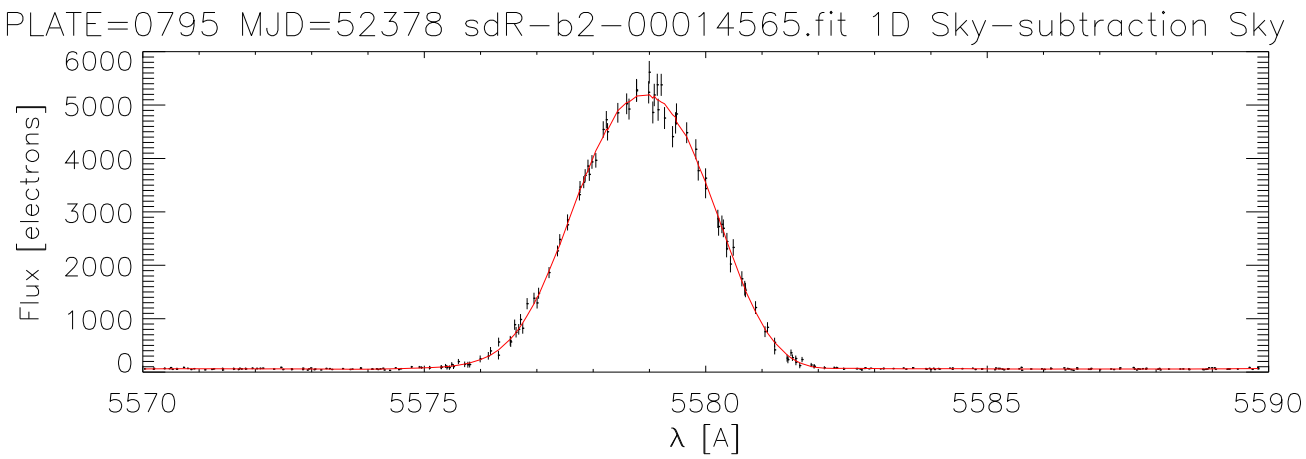

4046.5600
nfib1 16
nfib2 16
stdev 0.143
extra −0.03
4358.3300
nfib1 16
nfib2 16
stdev 0.055
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.043
extra −0.07
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.01
5889.9500
nfib1 16
nfib2 16
stdev 0.032
extra 0.04
5895.9240
nfib1 16
nfib2 16
stdev 0.029
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

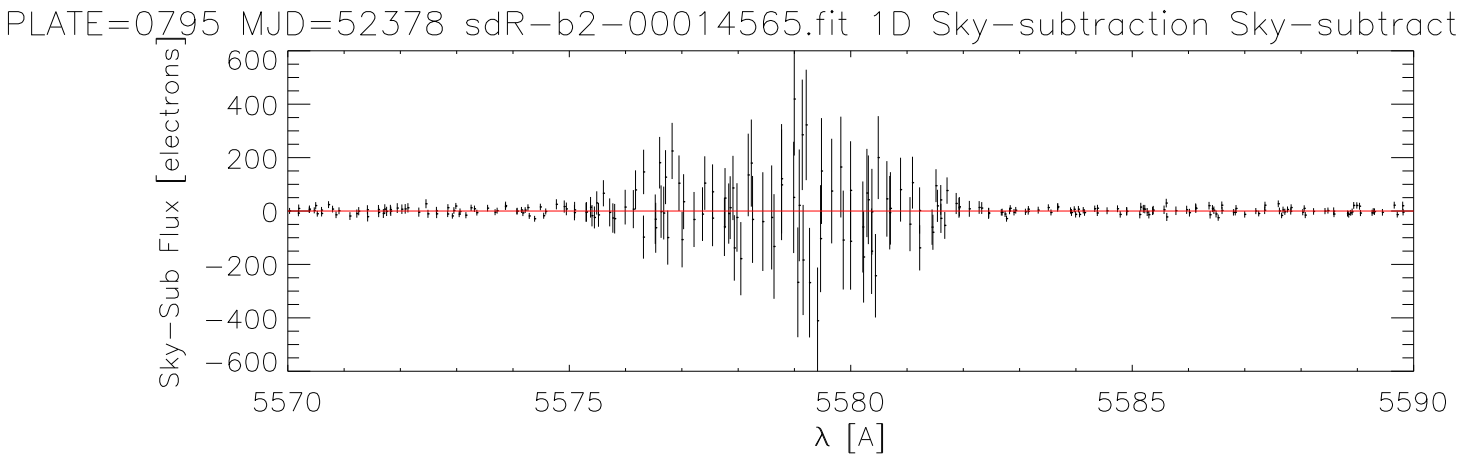

0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

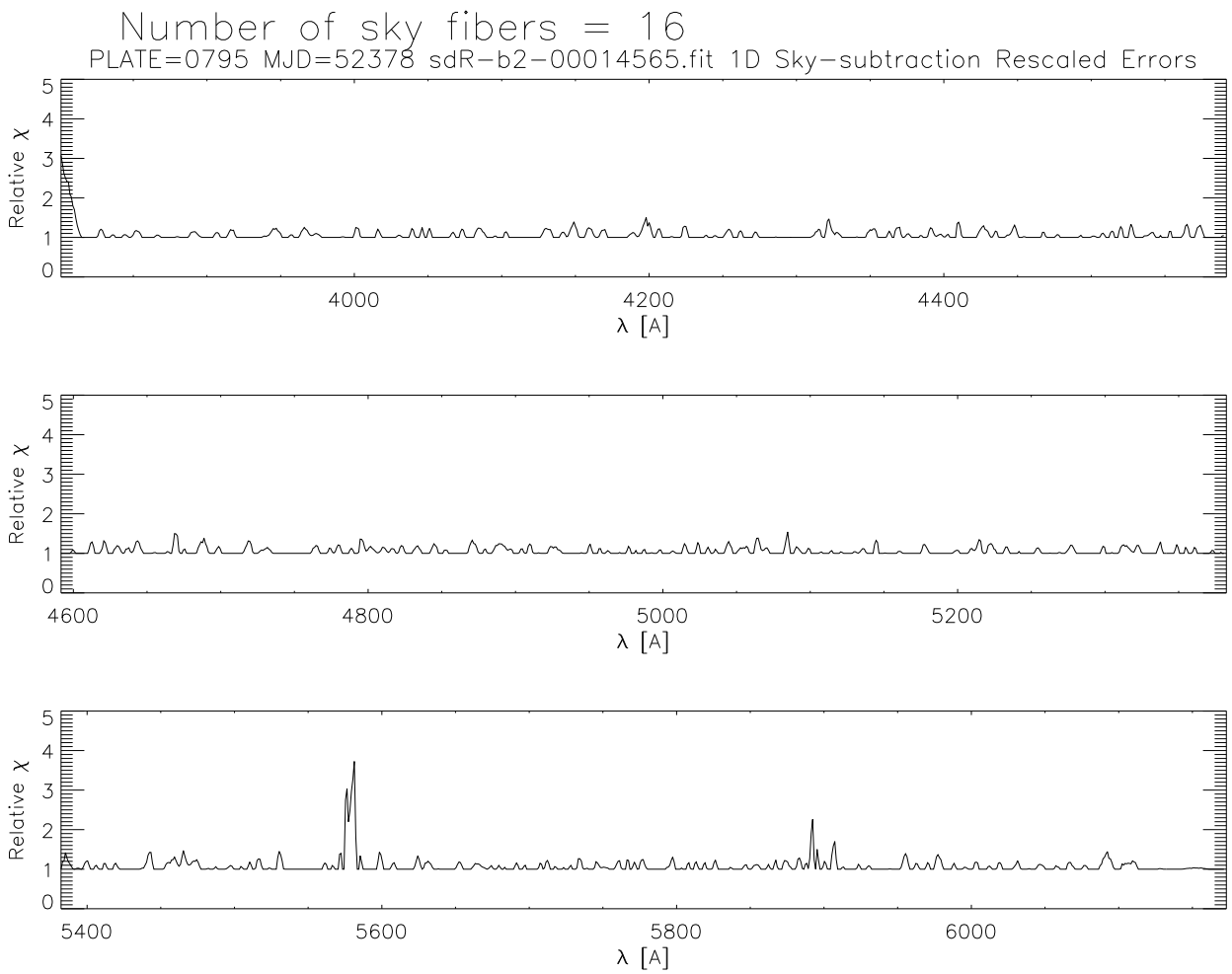

PLATE=0795 MJD=52378 Smooth superflat for sdR-b2-00014565.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

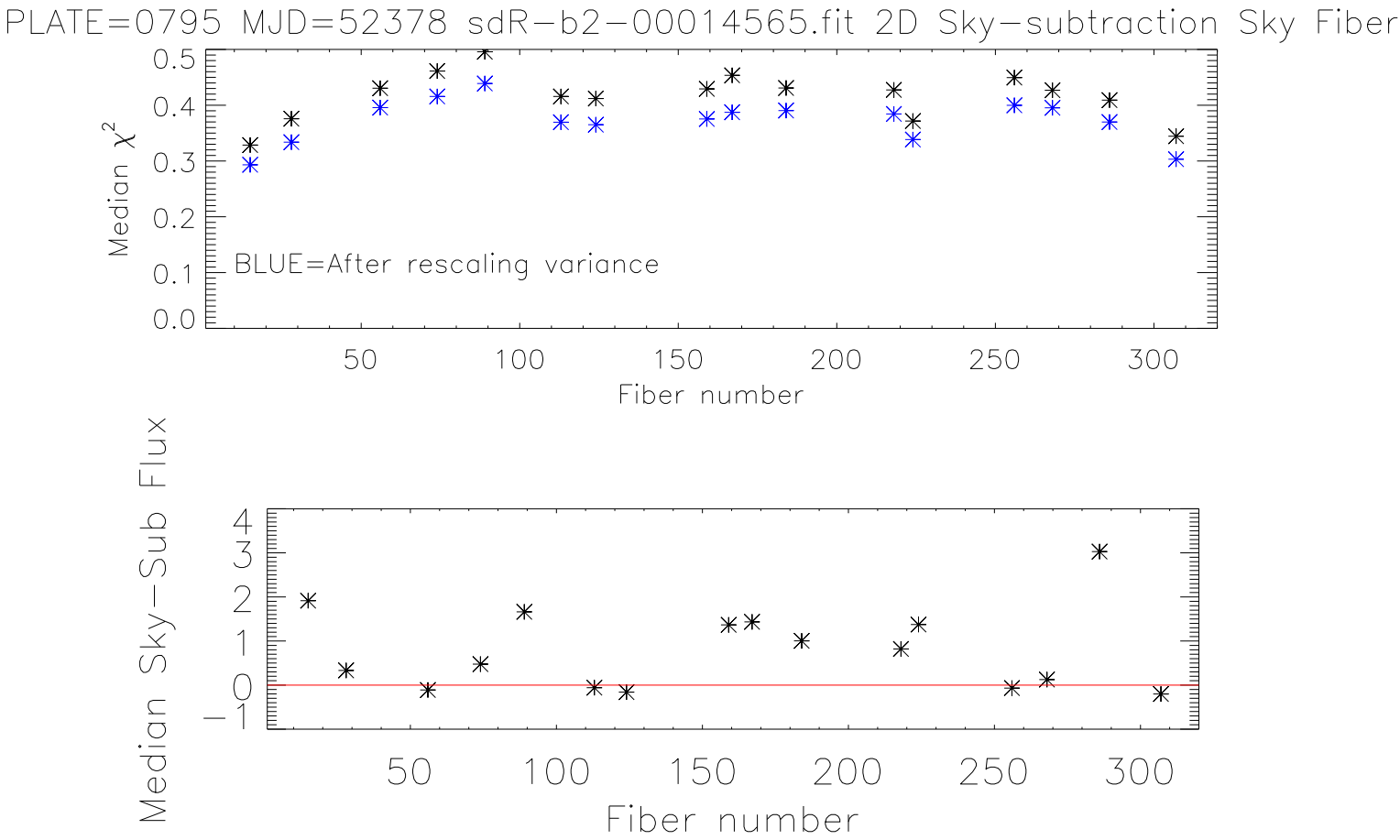
es= −0.0000

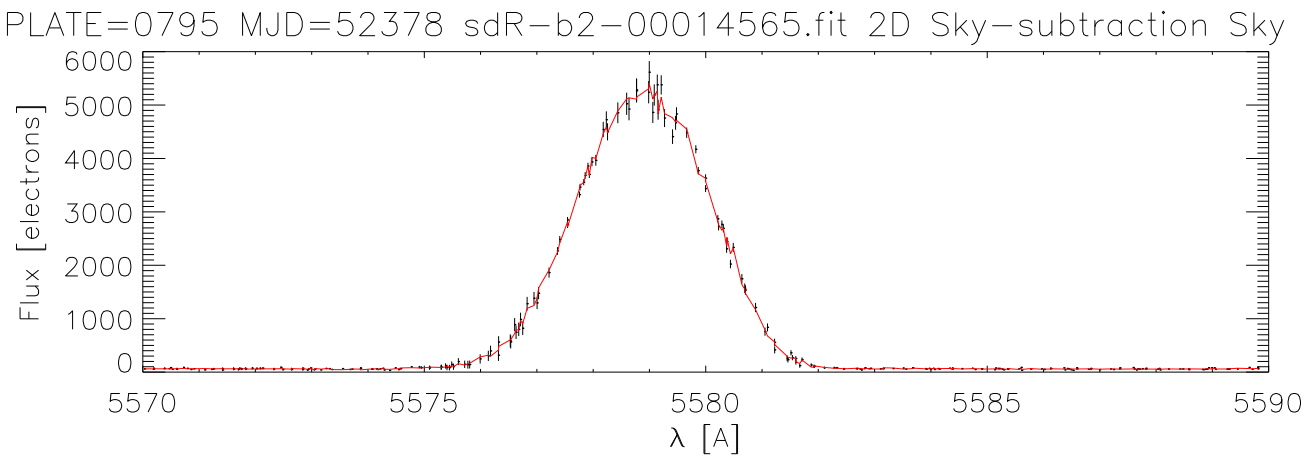

PLATE=0795 MJD=52378 sdR-b2-00014565.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

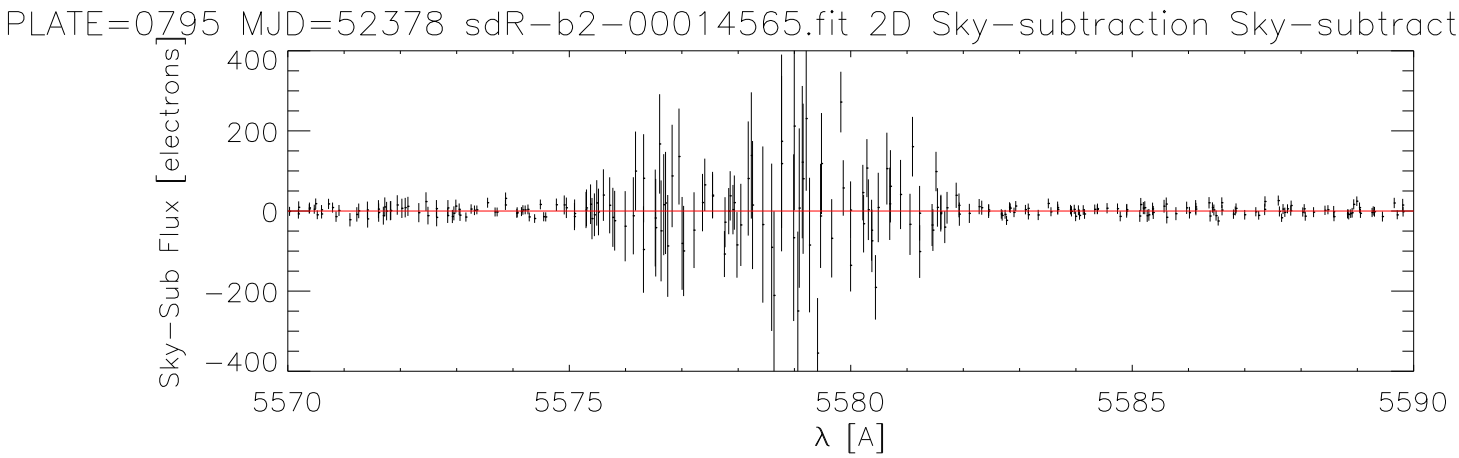

PLATE=0795 MJD=52378 sdR-b2-00014565.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

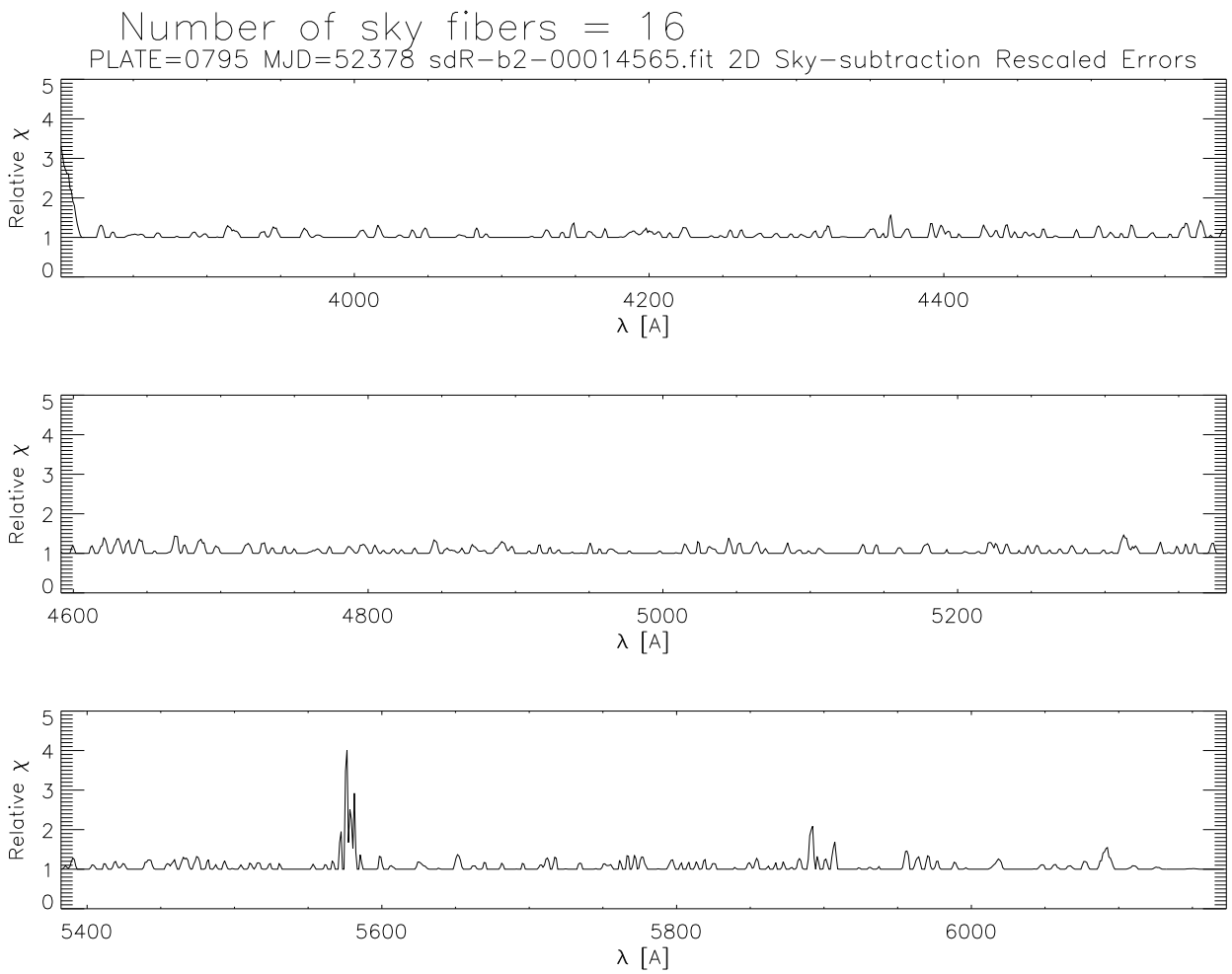

PLATE=0795 MJD=52378 sdR-b2-00014565.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

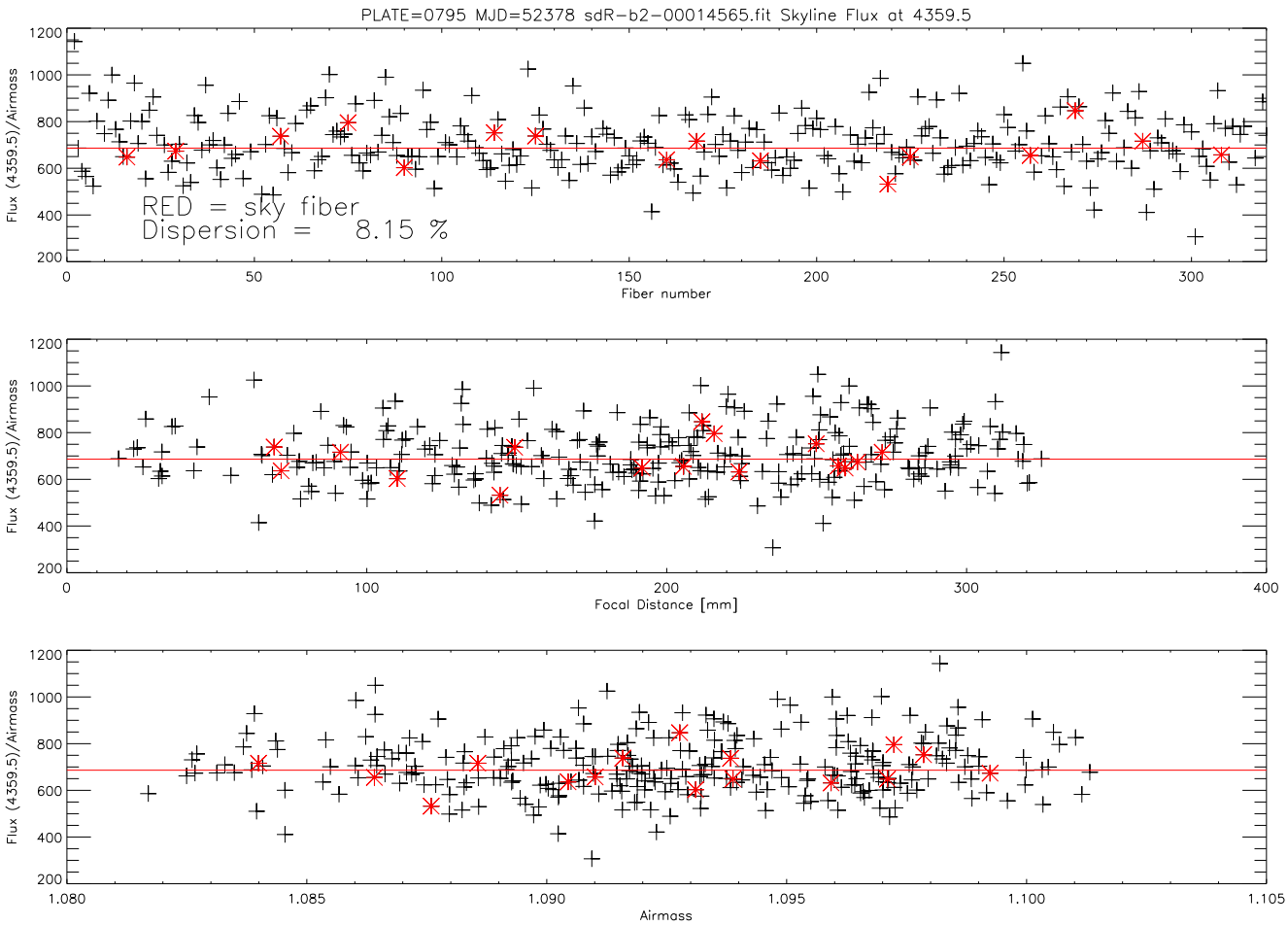

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014565.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

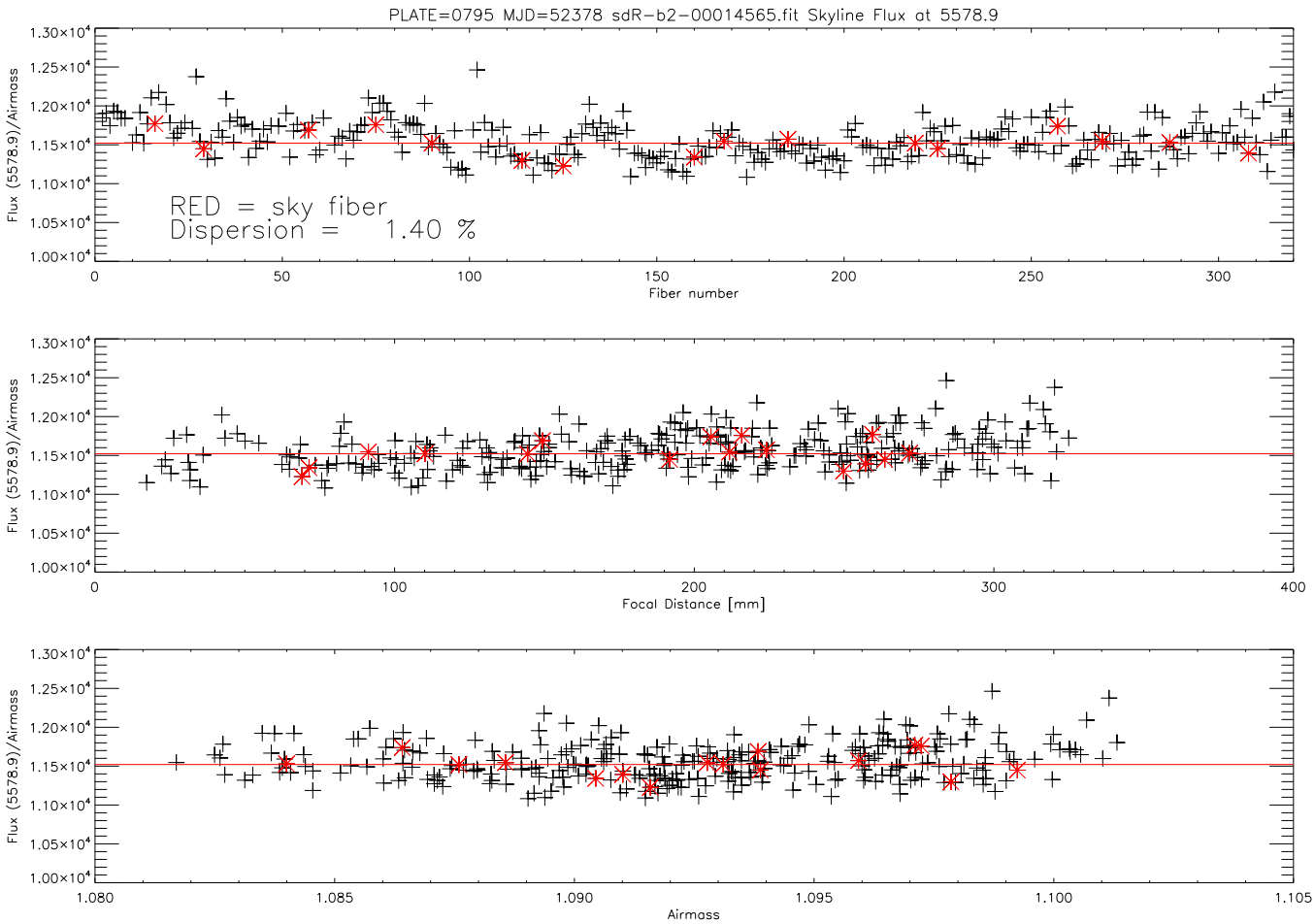

PLATE=0795 MJD=52378 sdR-b2-00014565.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

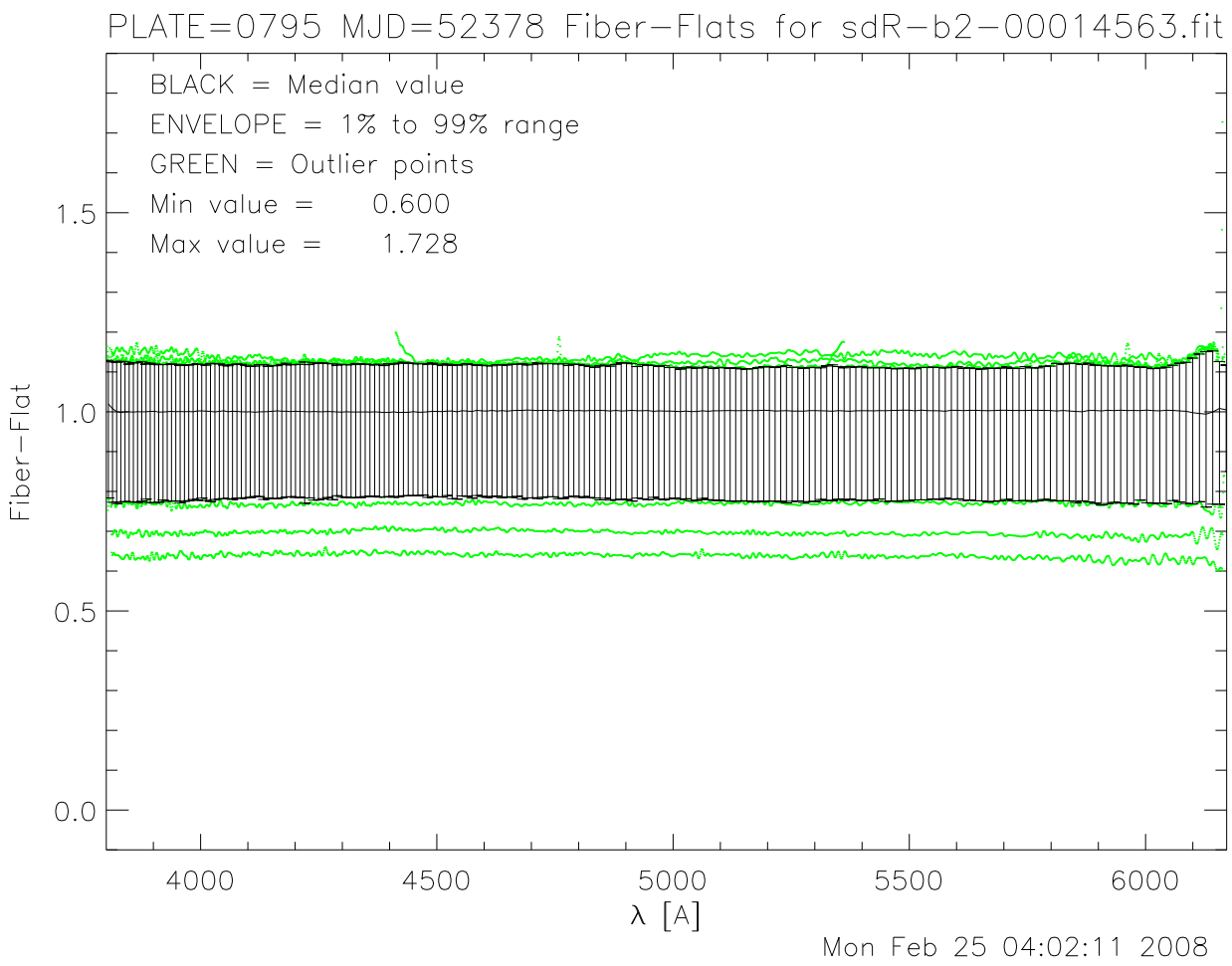

PLATE=0795 MJD=52378 sdR-b2-00014565.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

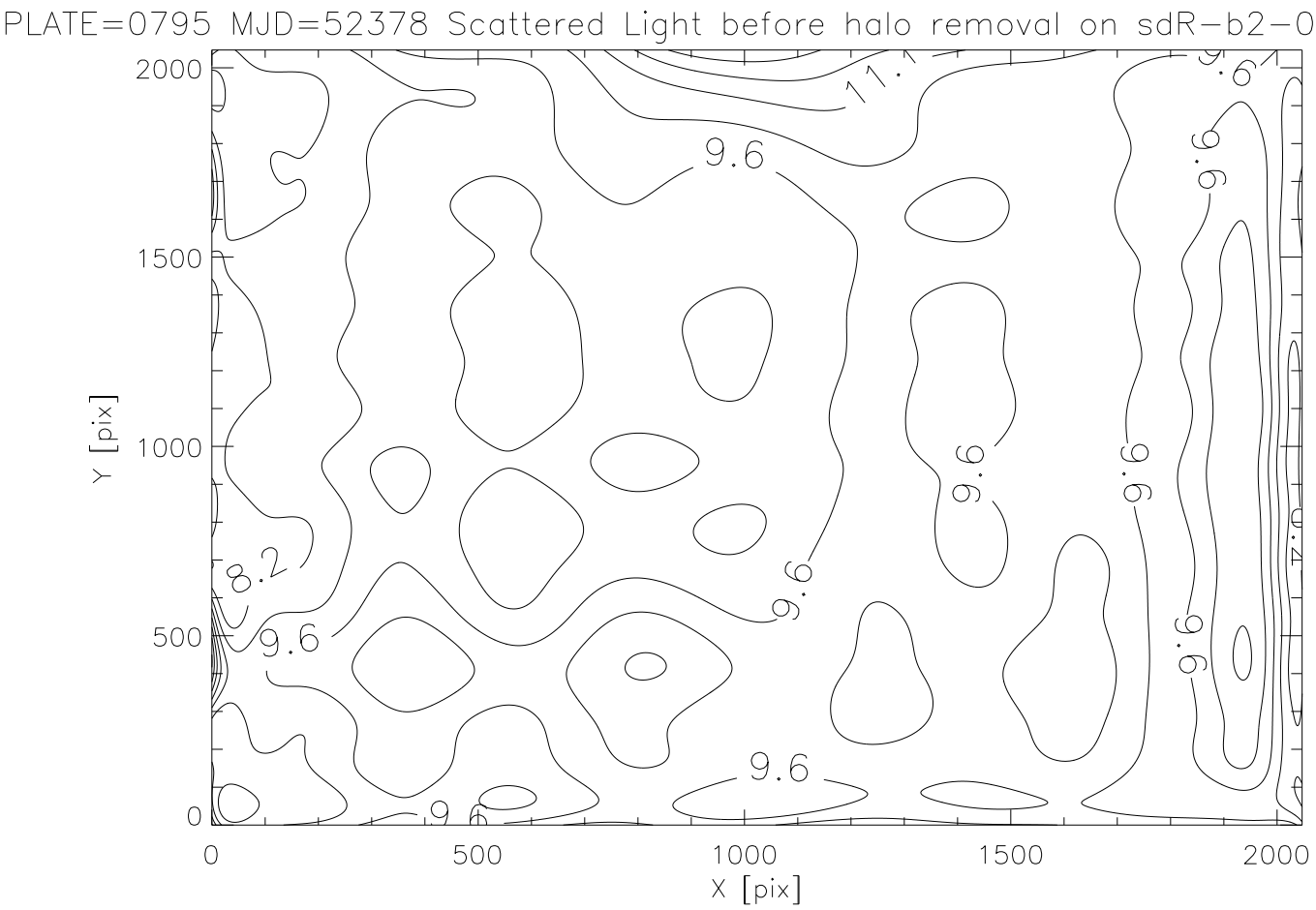

PLATE=0795 MJD=52378 sdR-b2-00014565.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

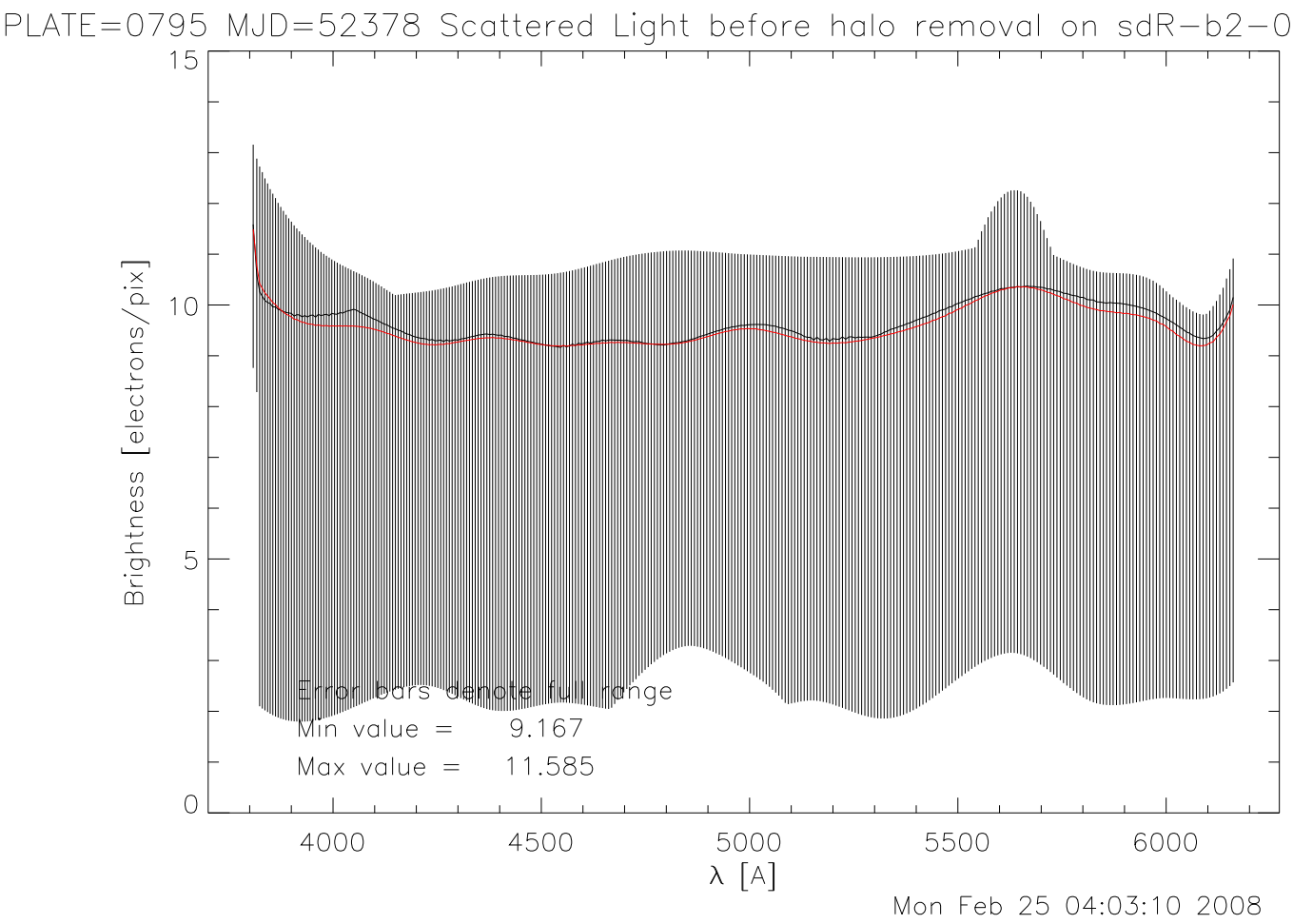

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014565.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

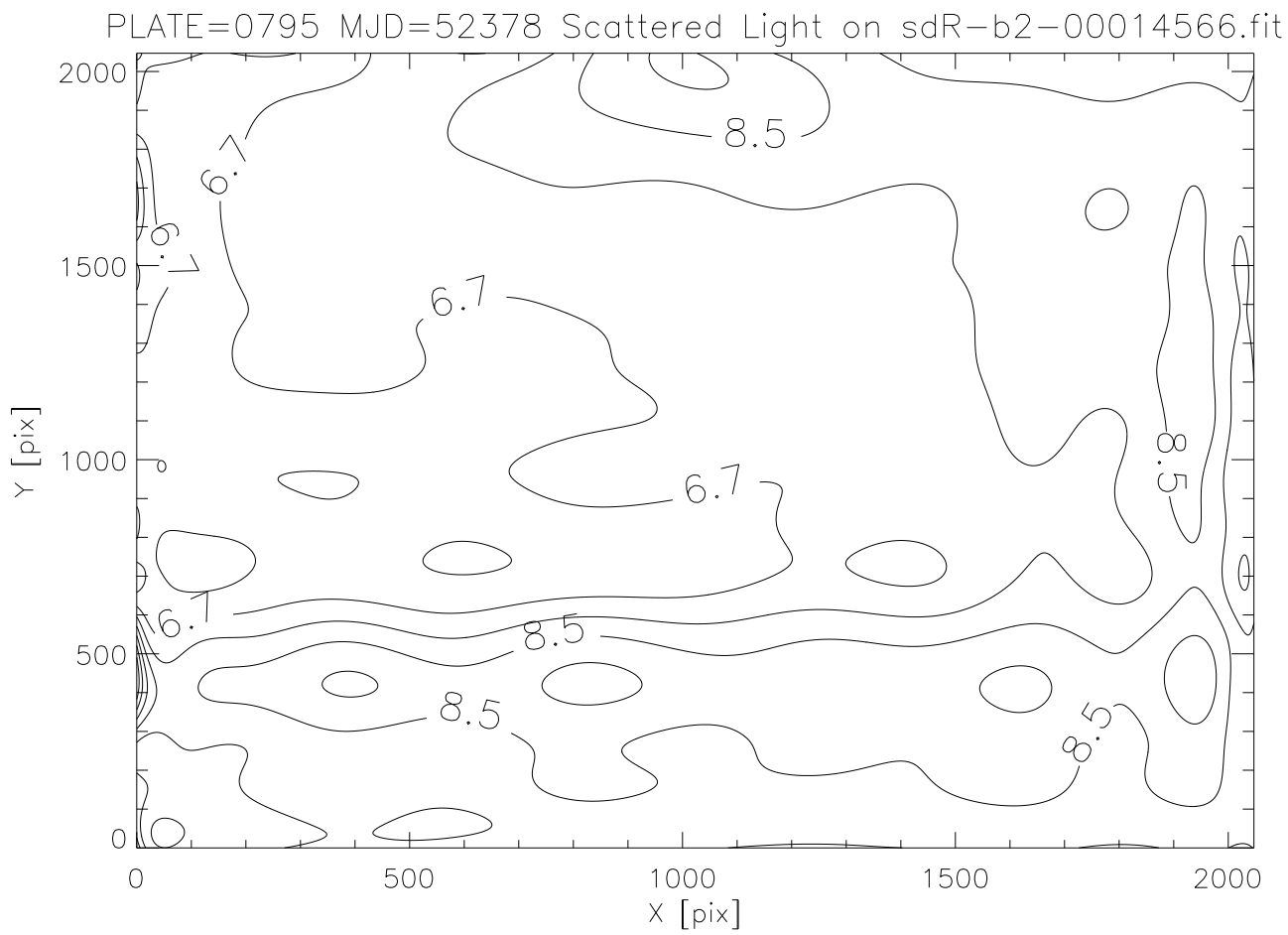

PLATE=0795 MJD=52378 sdR-b2-00014565.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.15 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

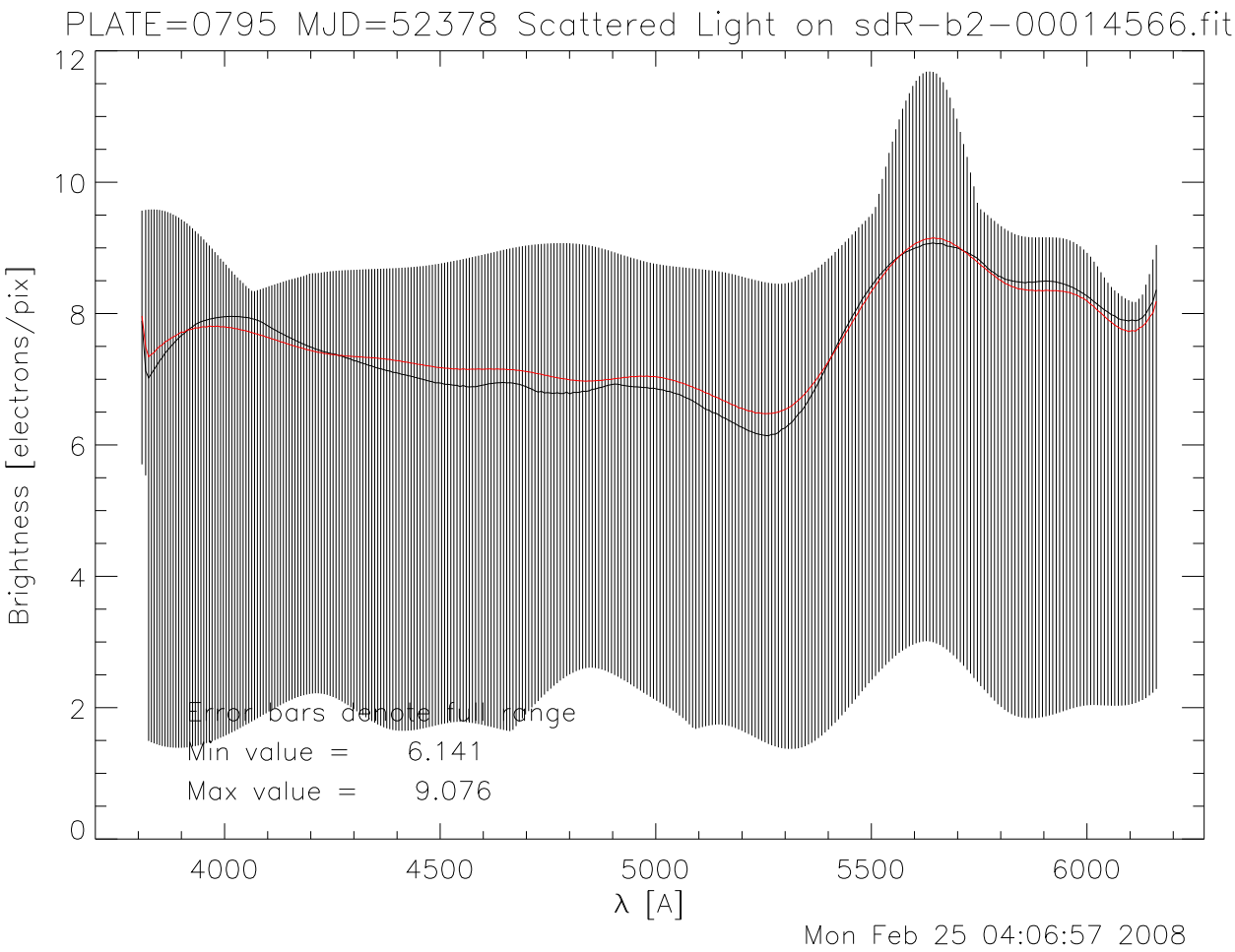

PLATE=0795 MJD=52378 sdR-b2-00014565.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.40 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

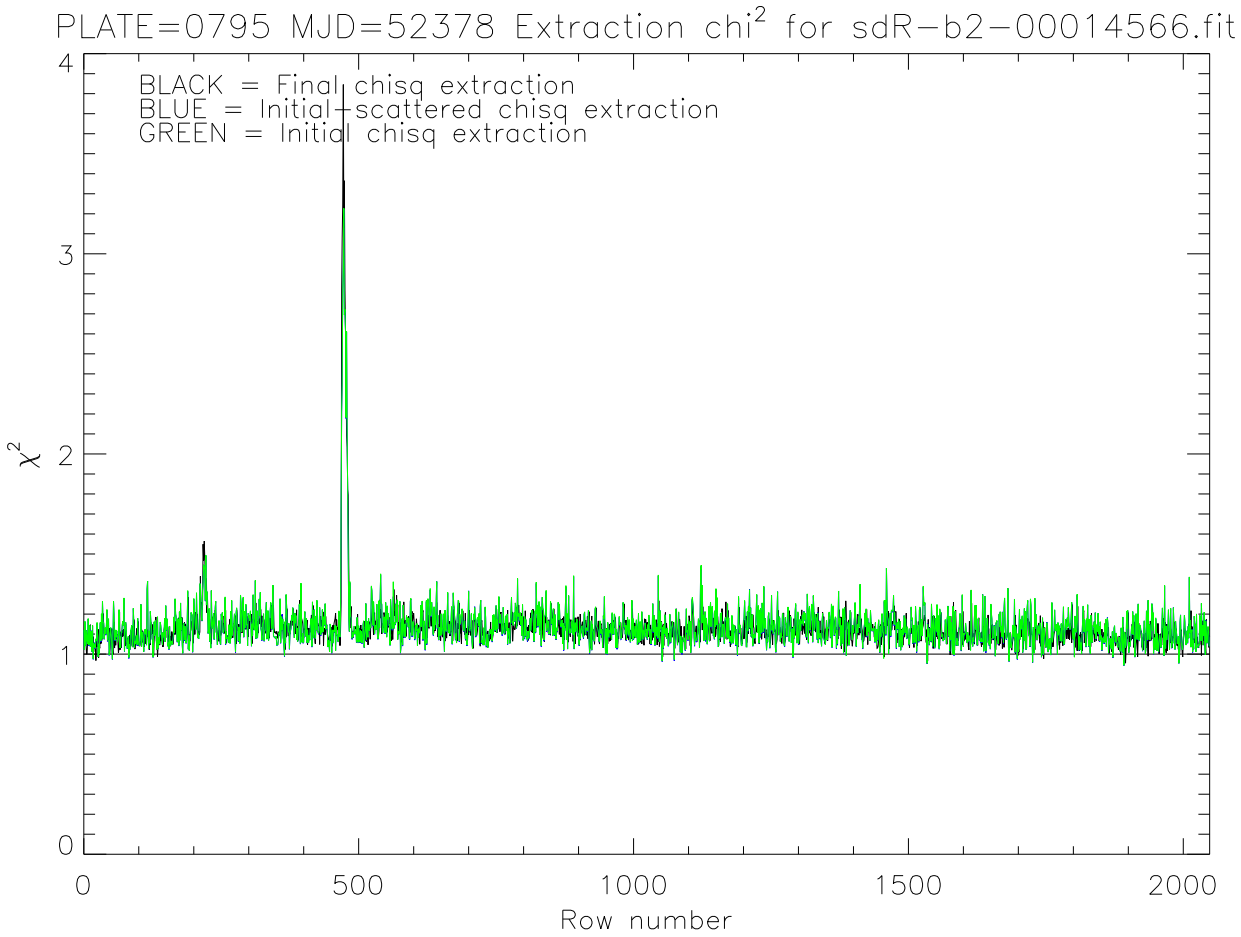

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.600
Max value = 1.728
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 04:02:11 2008

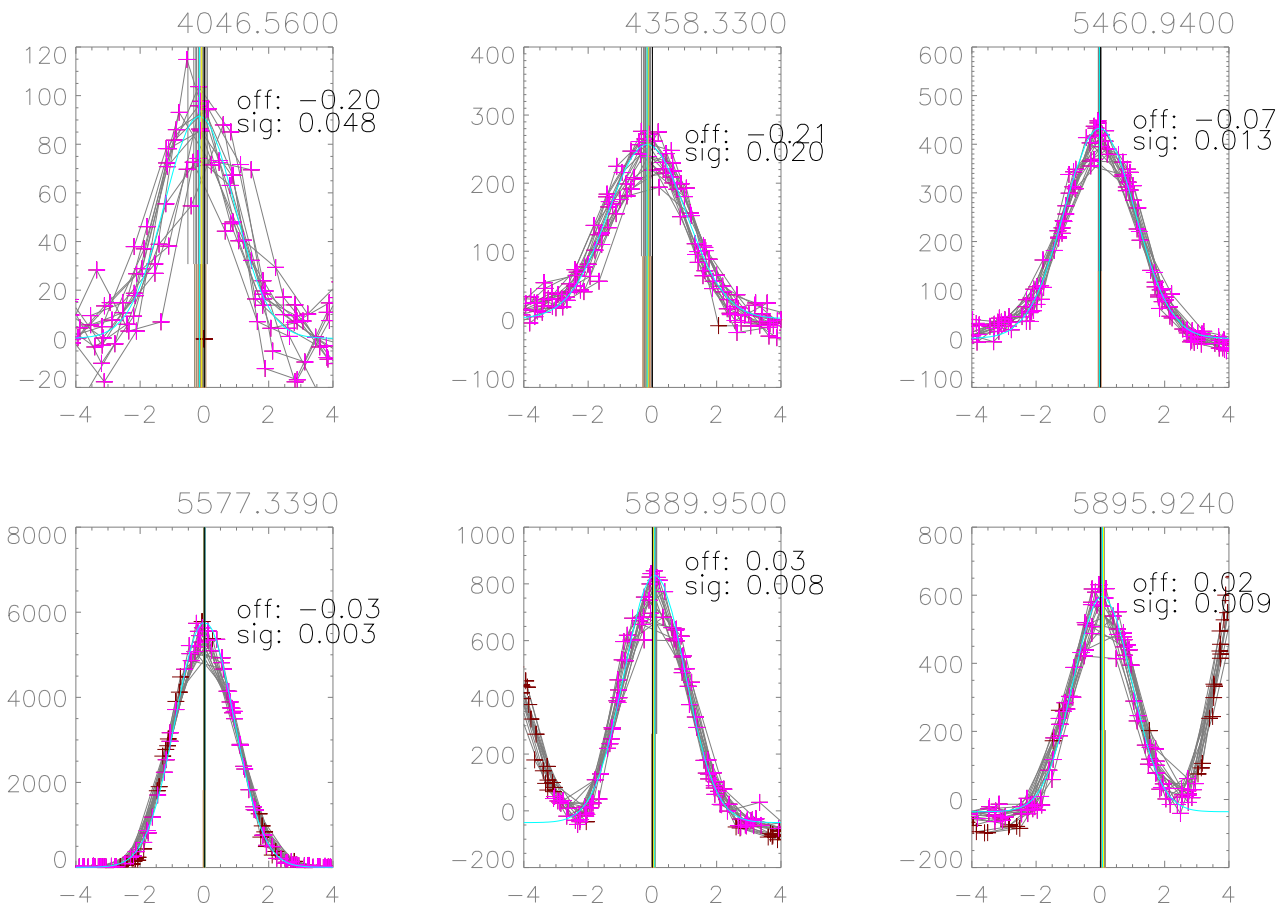

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−b2−00014566.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6
8.2
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6

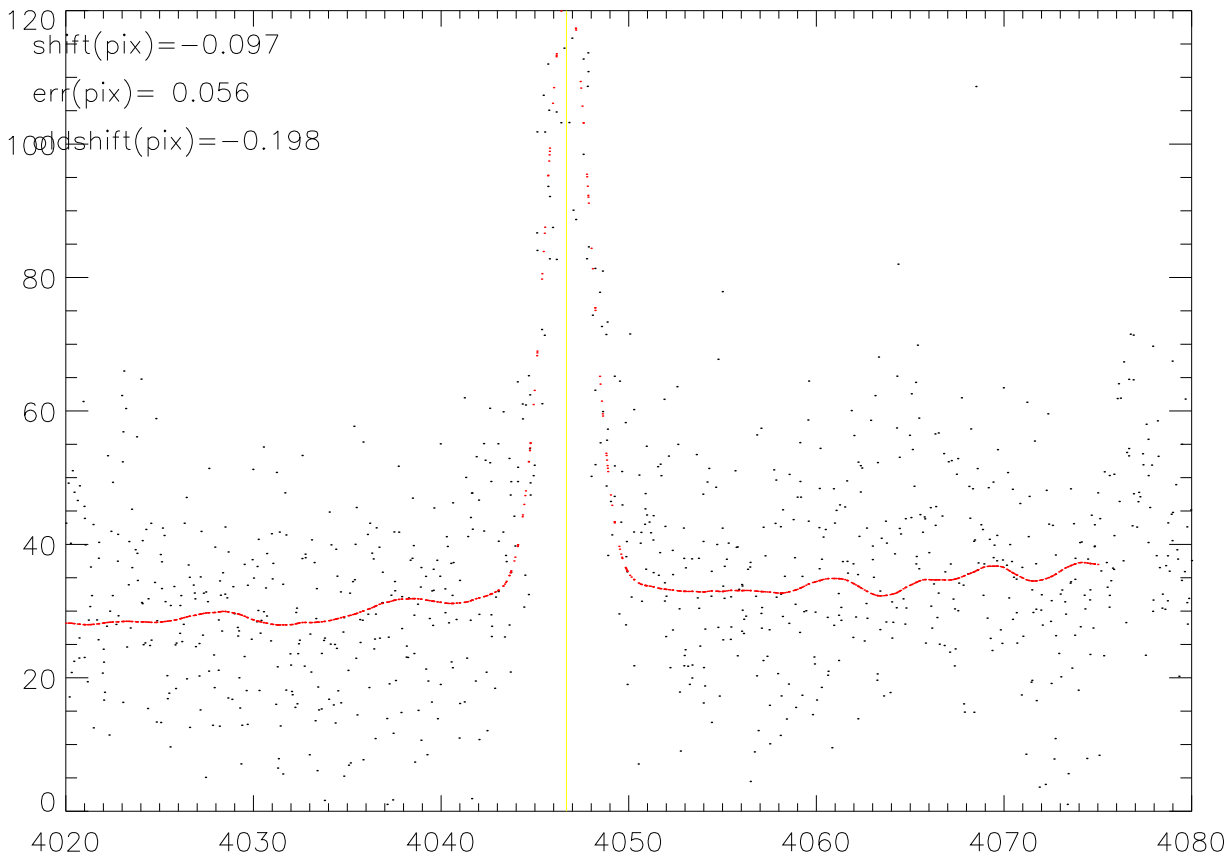

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014566.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.167
Max value = 11.585
Mon Feb 25 04:03:10 2008

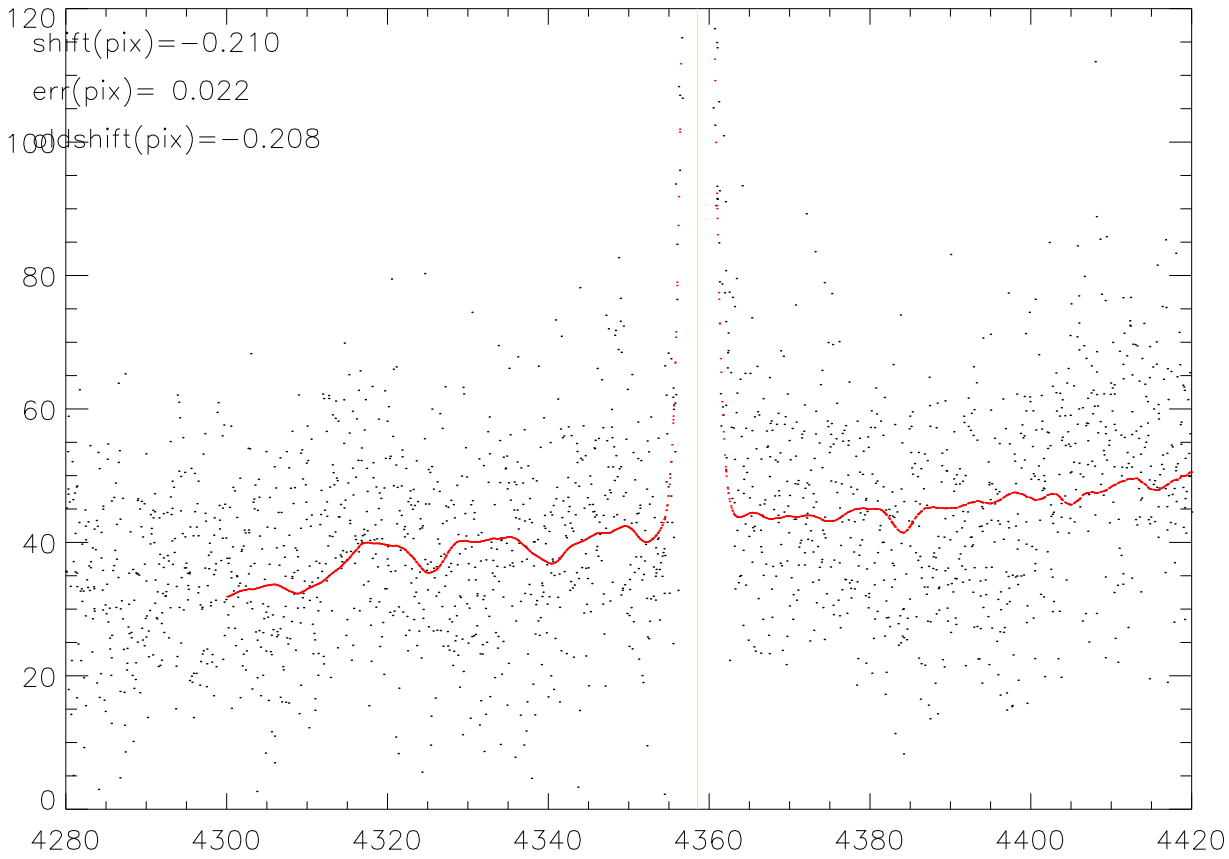

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014566.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5

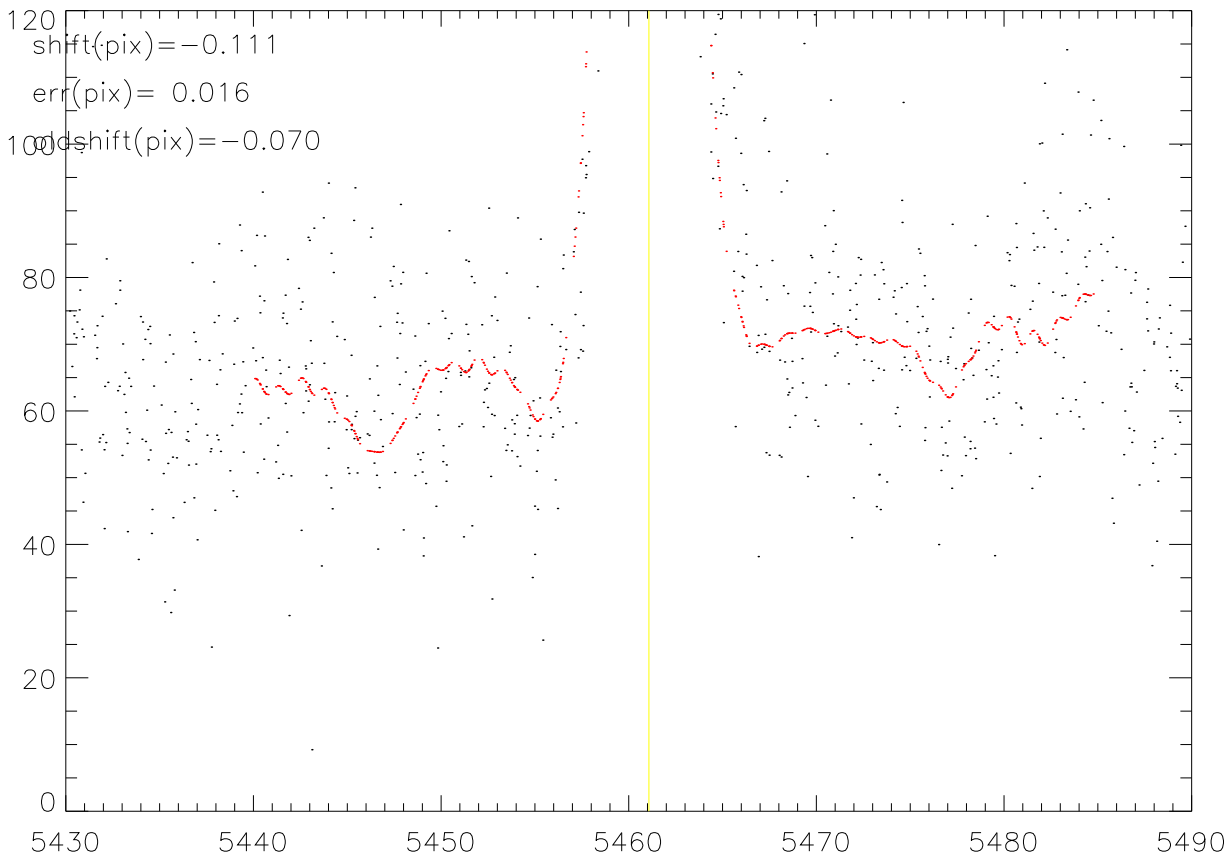

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014566.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.141
Max value = 9.076
Mon Feb 25 04:06:57 2008

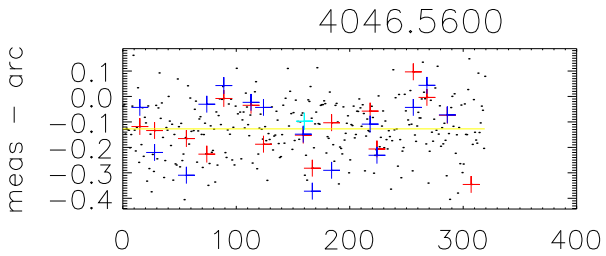

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b2-00014566.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

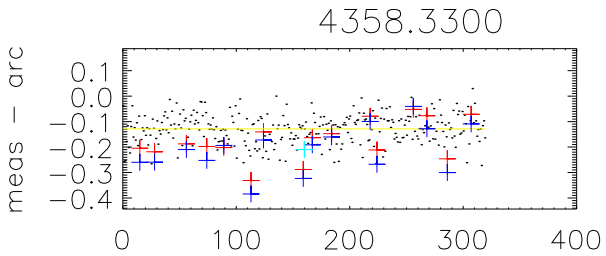

4046.5600
off: −0.20
sig: 0.048
4358.3300
off: −0.21
sig: 0.020
5460.9400
off: −0.07
sig: 0.013
5577.3390
off: −0.03
sig: 0.003
5889.9500
off: 0.03
sig: 0.008
5895.9240
off: 0.02
sig: 0.009

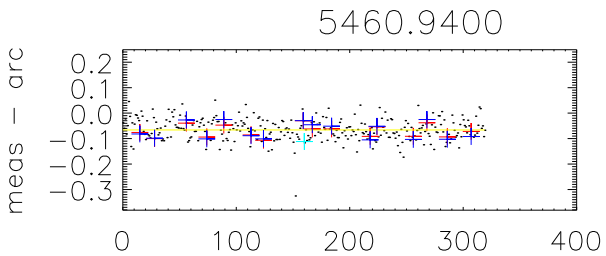

shift(pix)=−0.097
err(pix)= 0.056
oldshift(pix)=−0.198
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

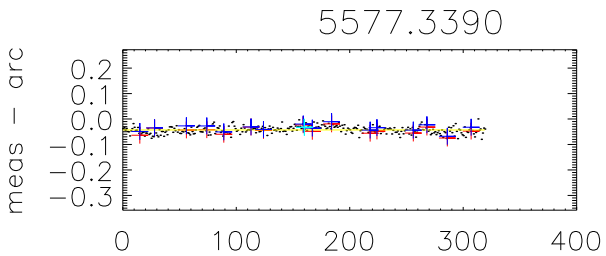

shift(pix)=−0.210
err(pix)= 0.022
oldshift(pix)=−0.208
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

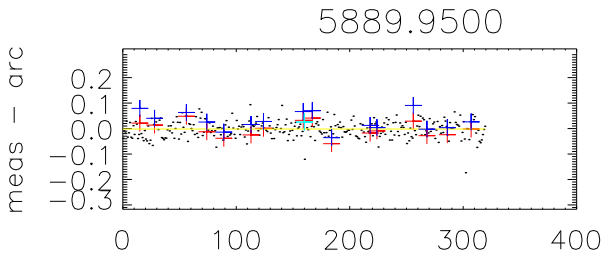

shift(pix)=−0.111
err(pix)= 0.016
oldshift(pix)=−0.070
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

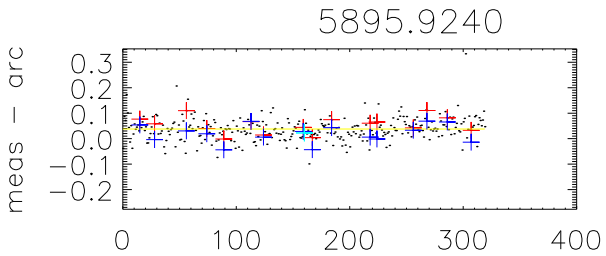

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

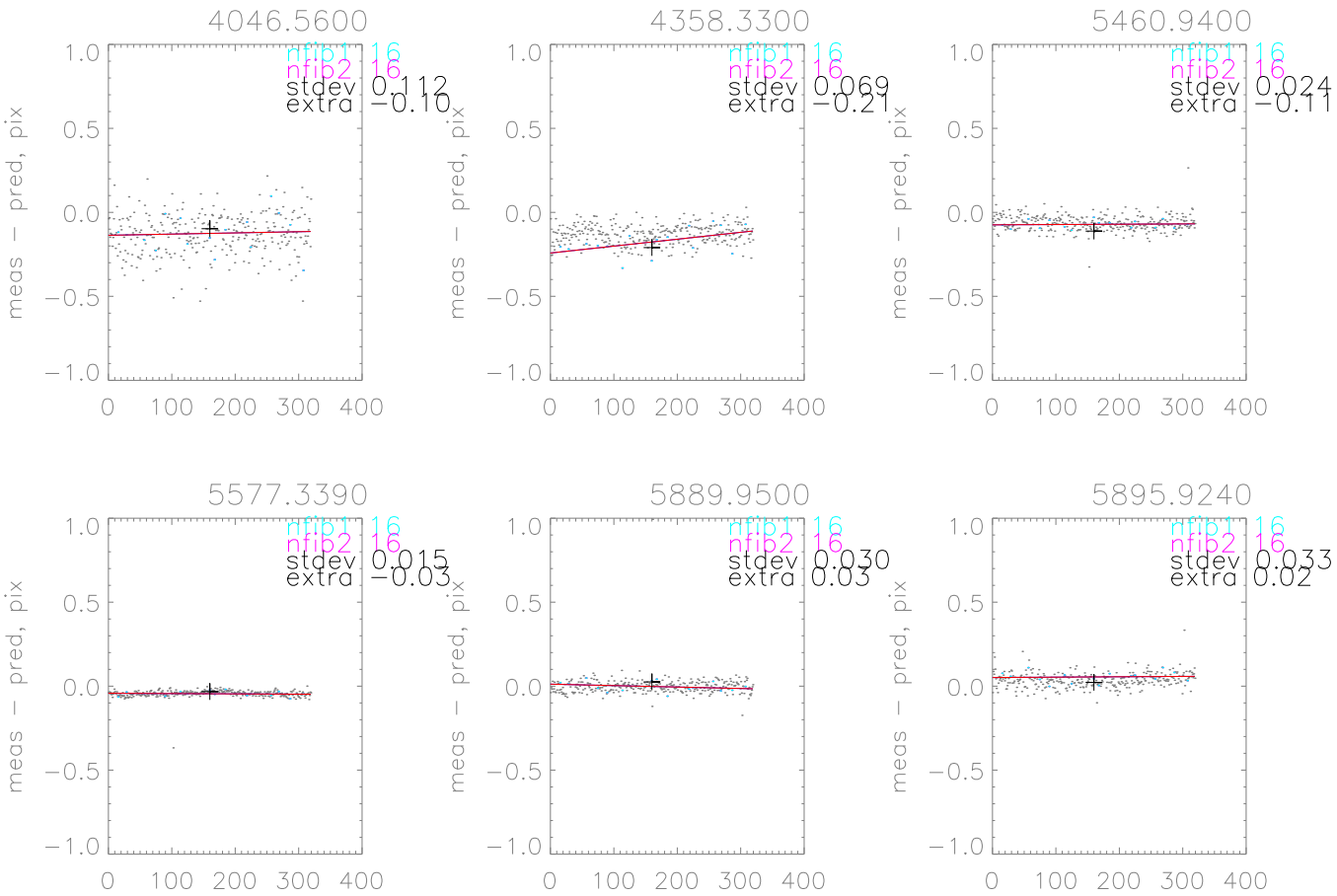

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

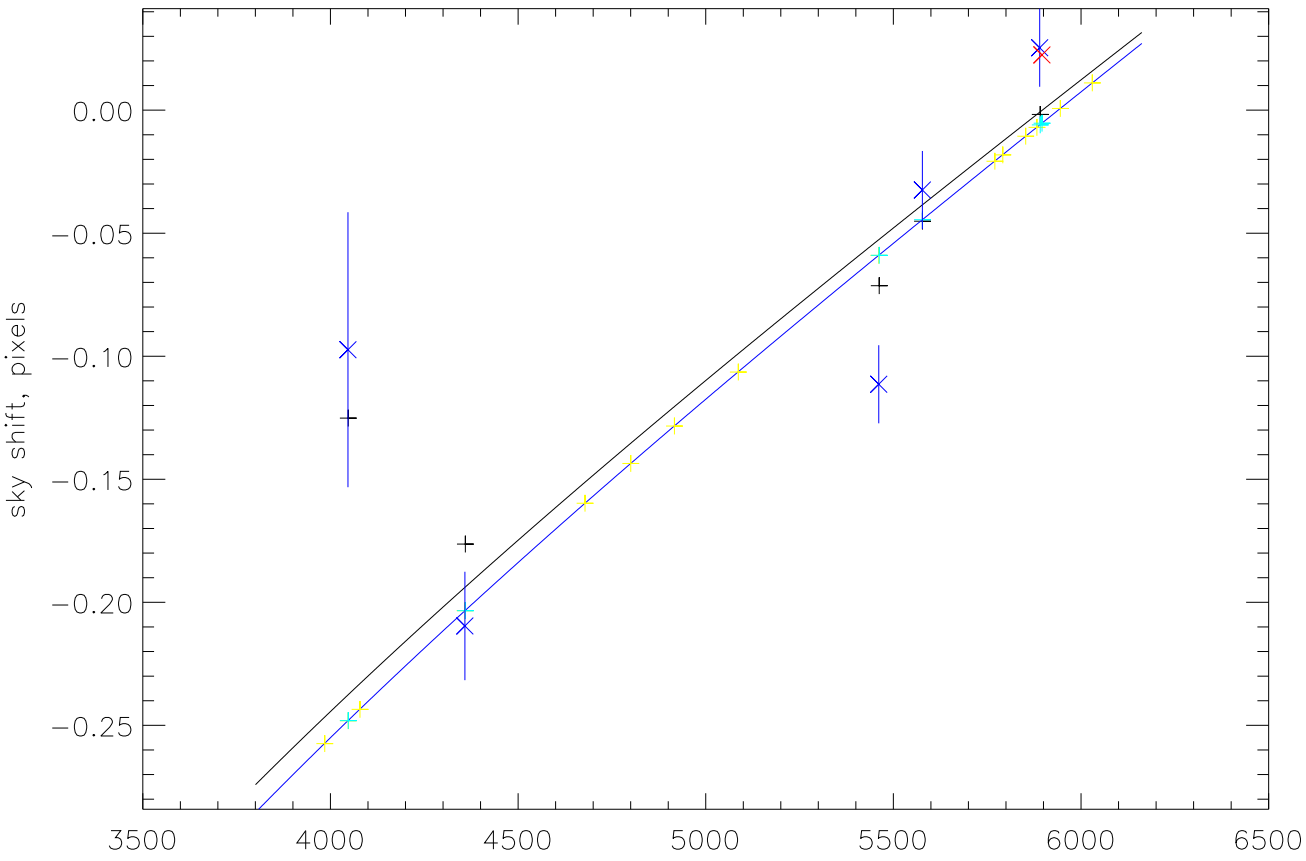

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

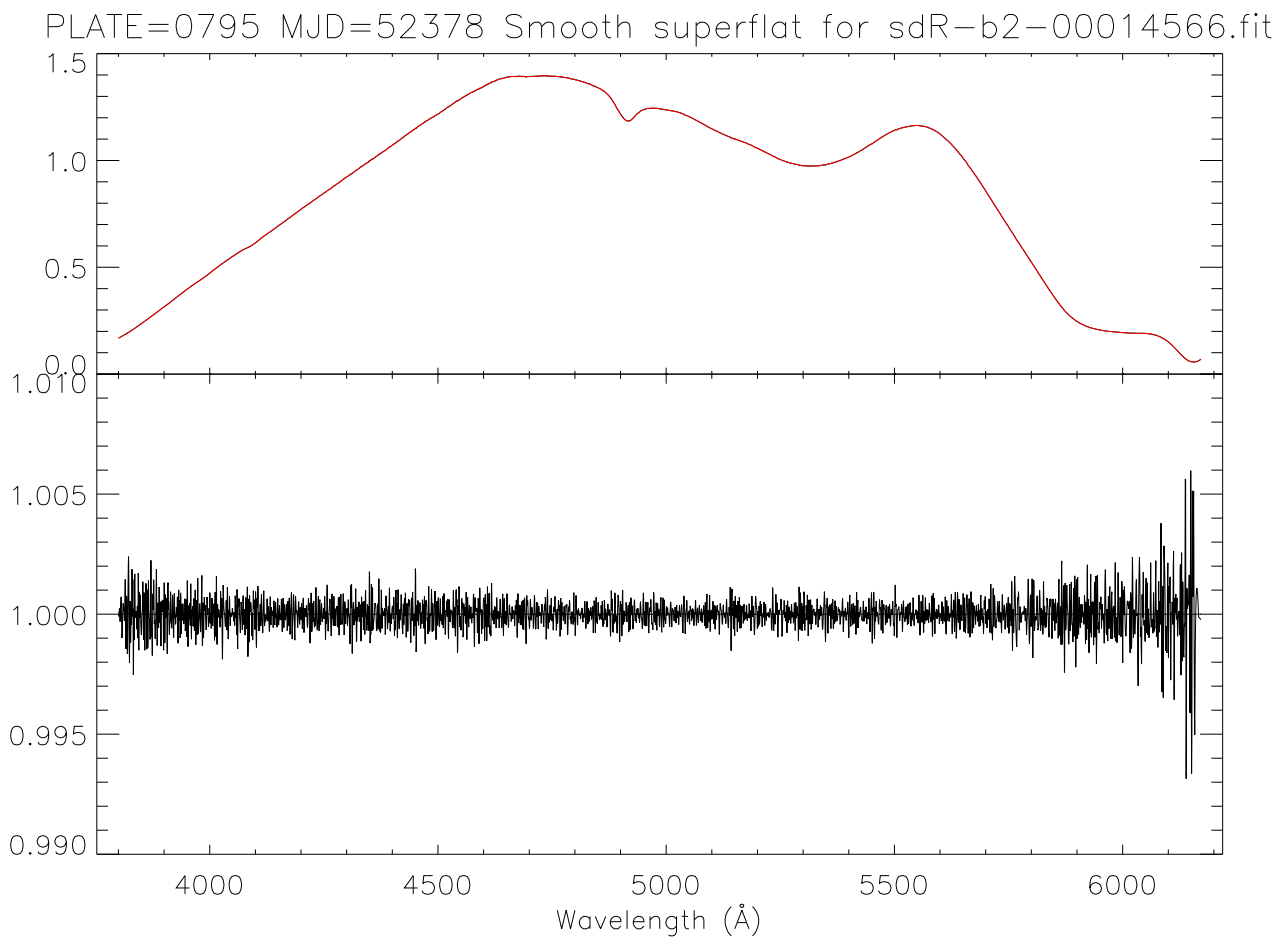

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

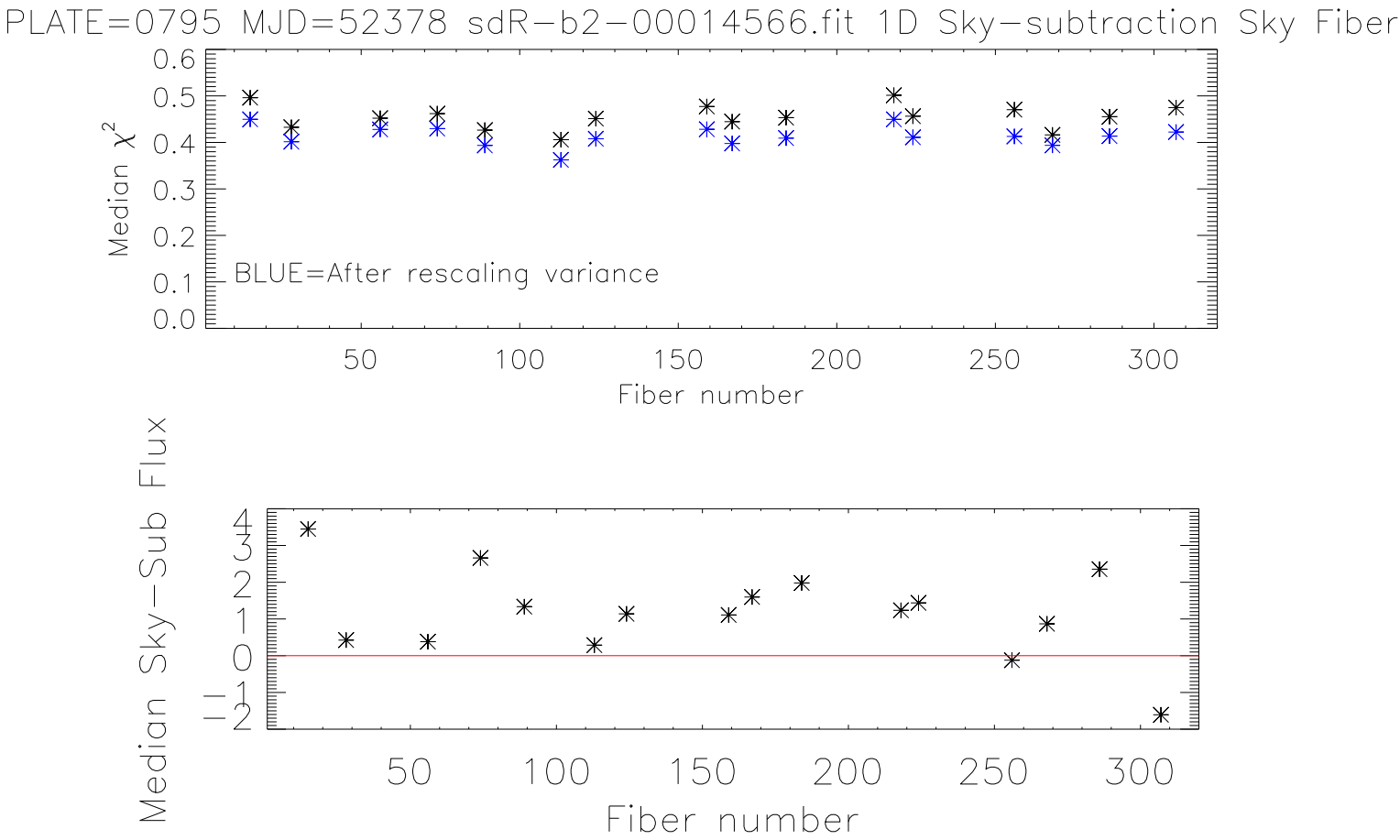

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

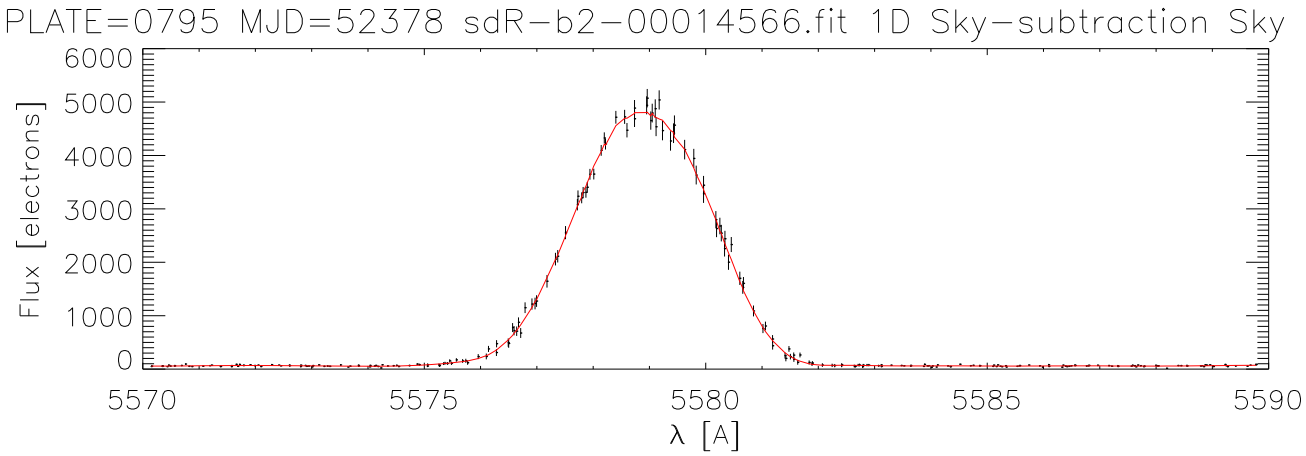

4046.5600
nfib1 16
nfib2 16
stdev 0.112
extra −0.10
4358.3300
nfib1 16
nfib2 16
stdev 0.069
extra −0.21
5460.9400
nfib1 16
nfib2 16
stdev 0.024
extra −0.11
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.03
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra 0.03
5895.9240
nfib1 16
nfib2 16
stdev 0.033
extra 0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

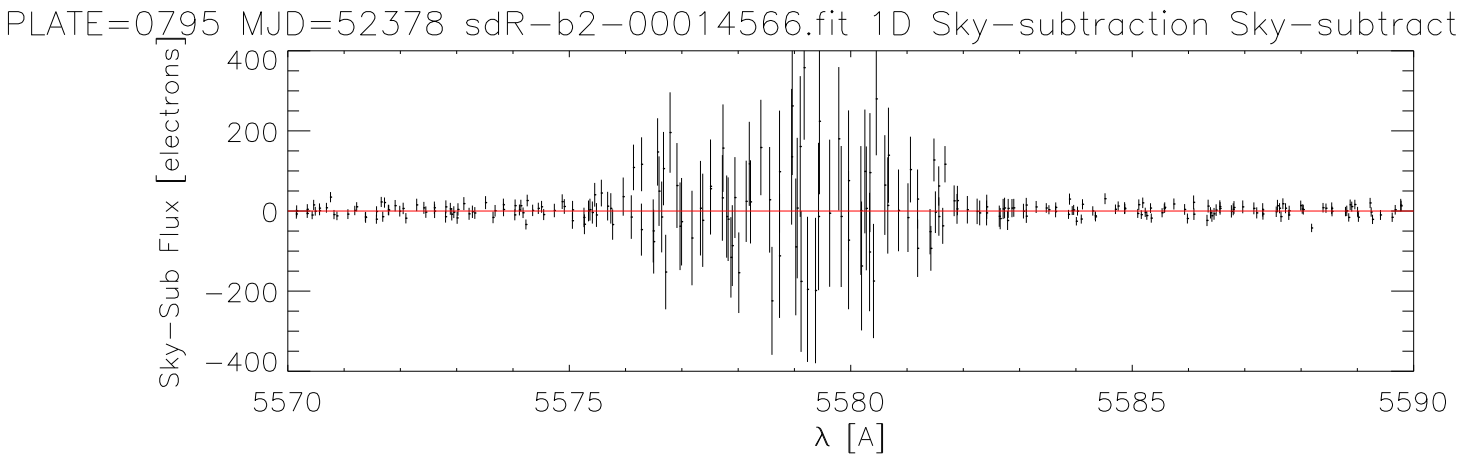

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

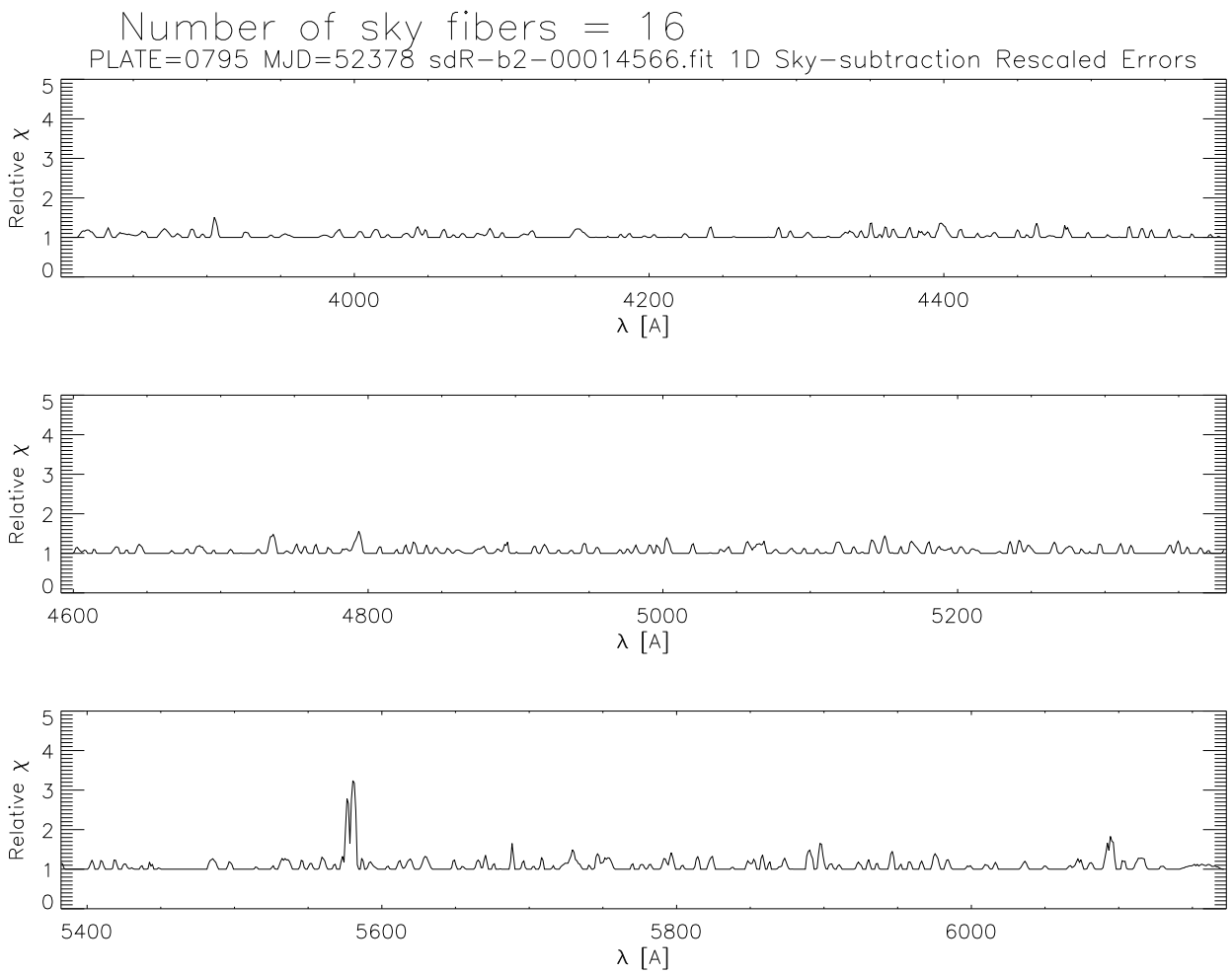
es= −0.0000

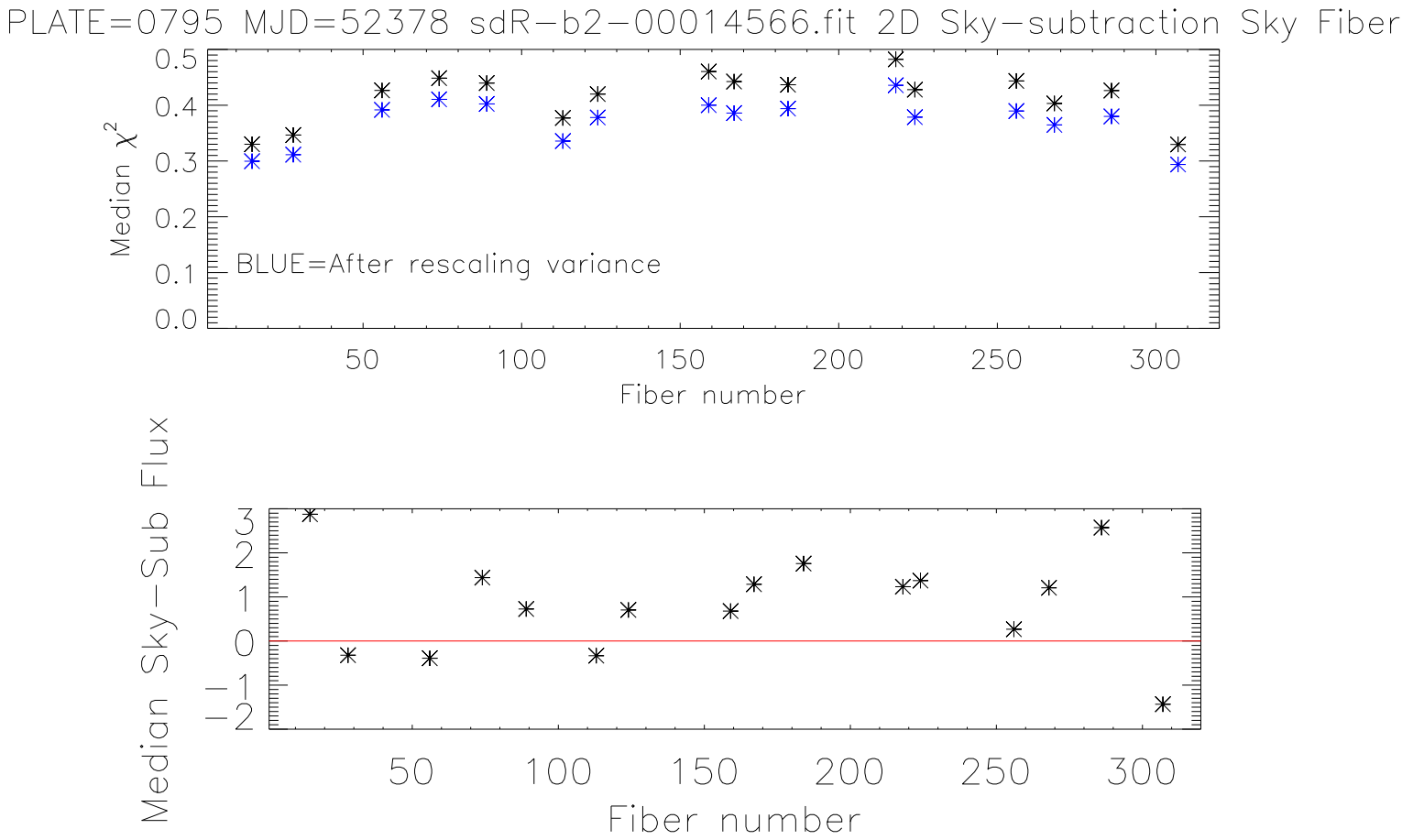

PLATE=0795 MJD=52378 Smooth superflat for sdR−b2−00014566.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

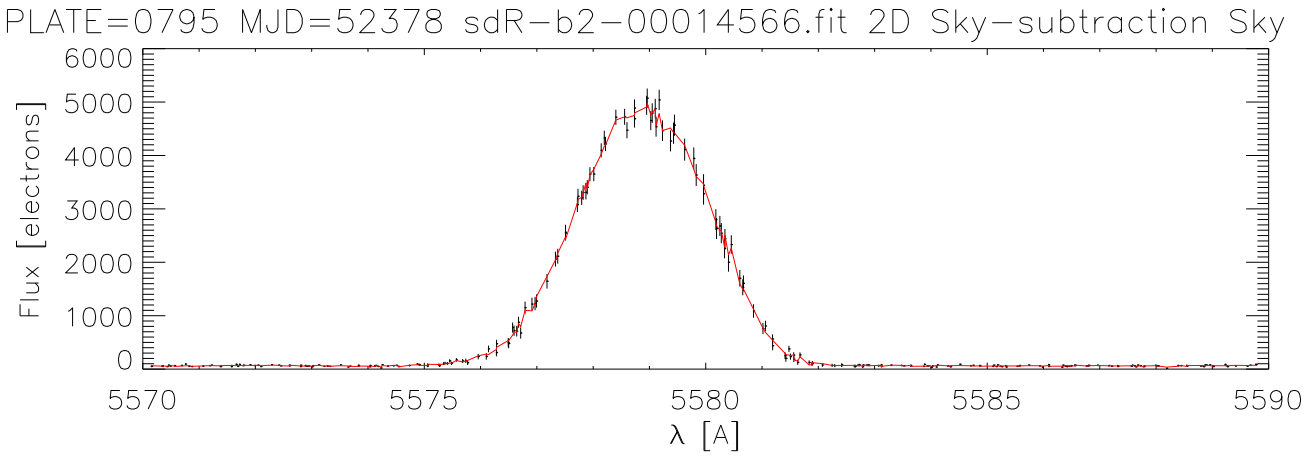

PLATE=0795 MJD=52378 sdR-b2-00014566.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

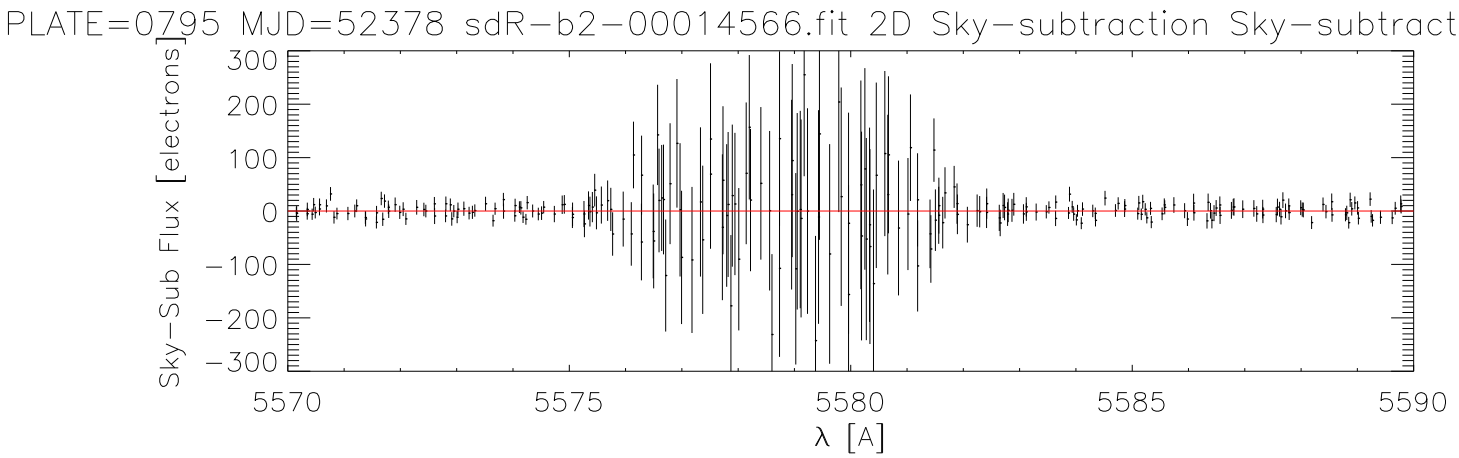

PLATE=0795 MJD=52378 sdR-b2-00014566.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

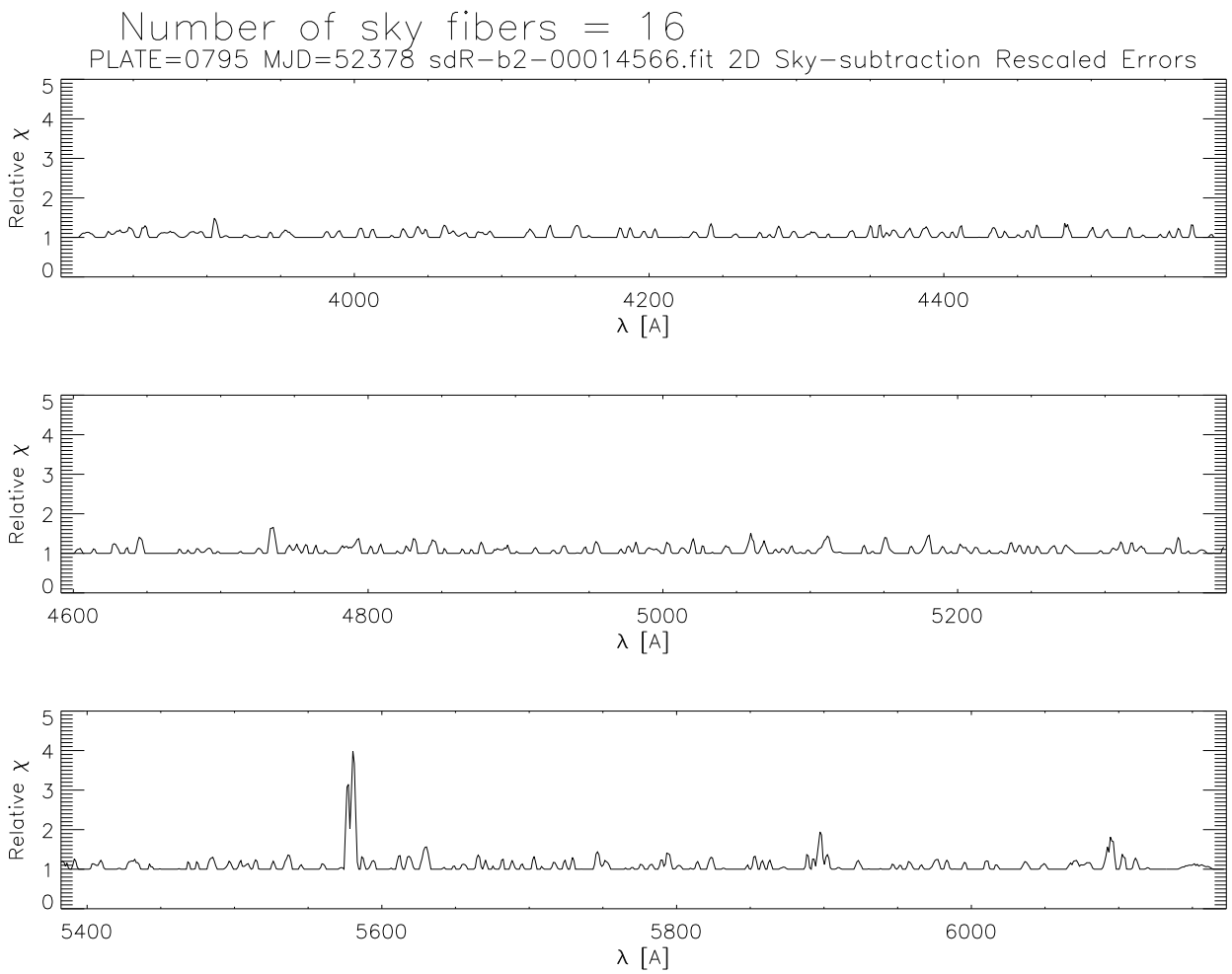

PLATE=0795 MJD=52378 sdR-b2-00014566.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

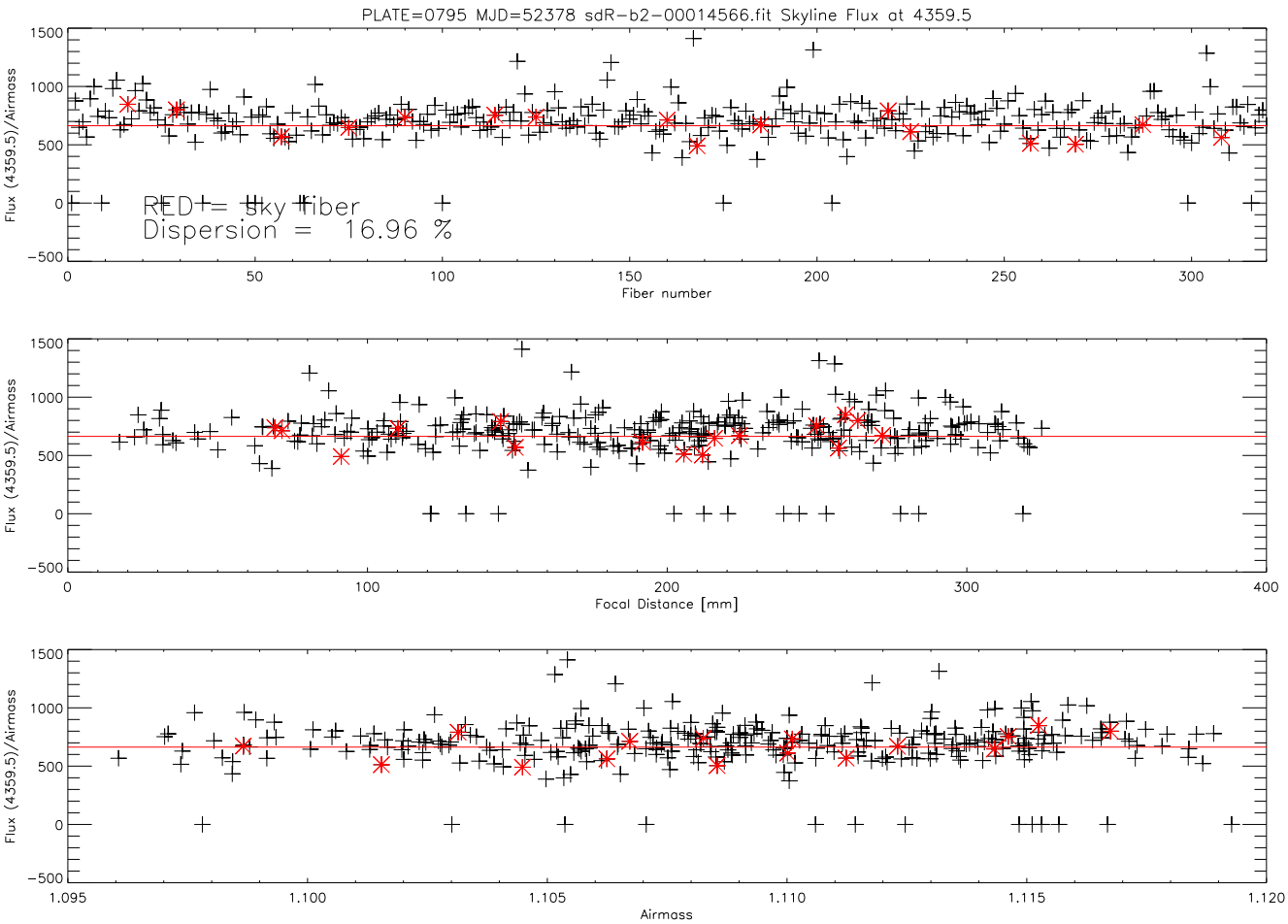

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014566.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

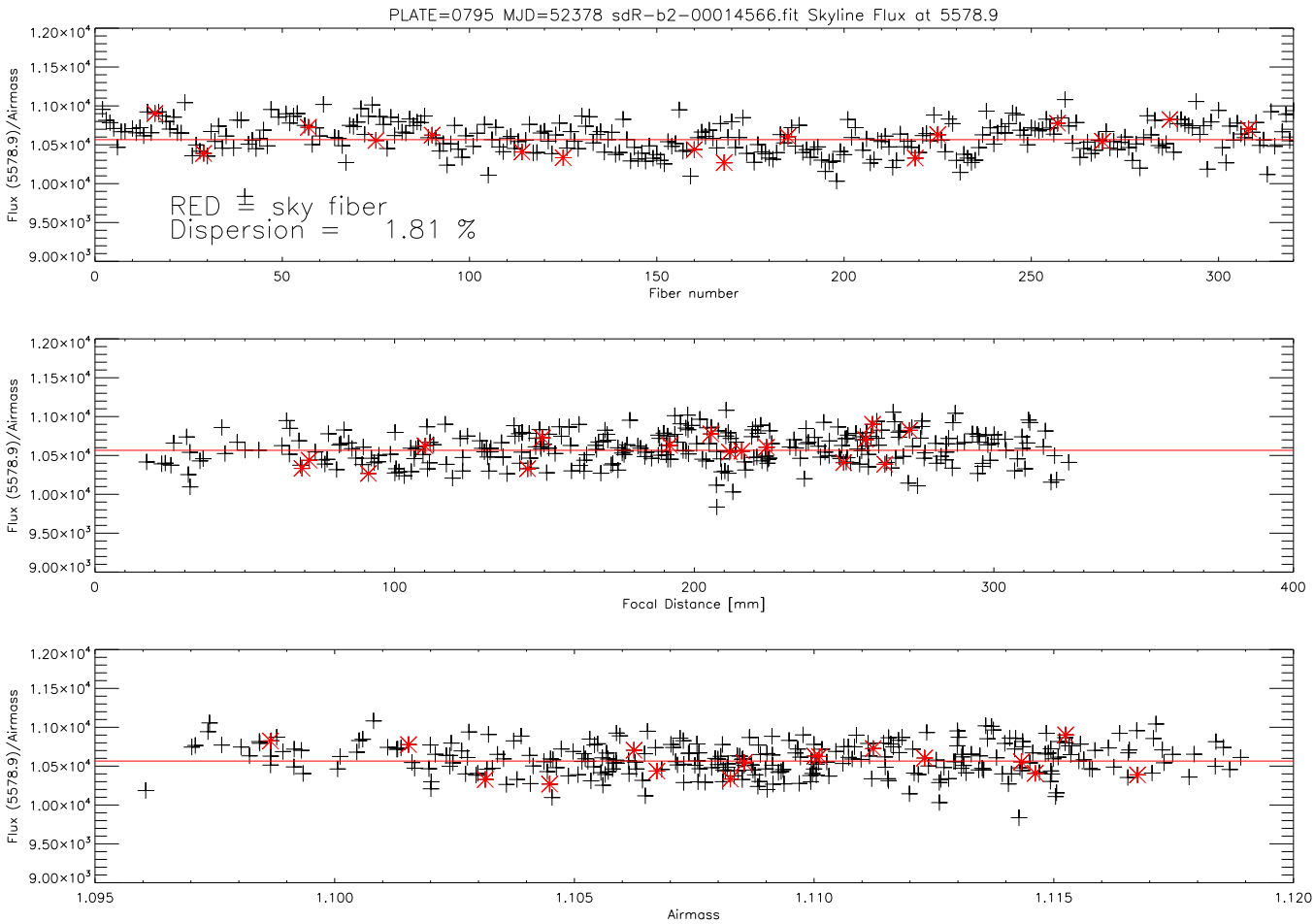

PLATE=0795 MJD=52378 sdR-b2-00014566.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

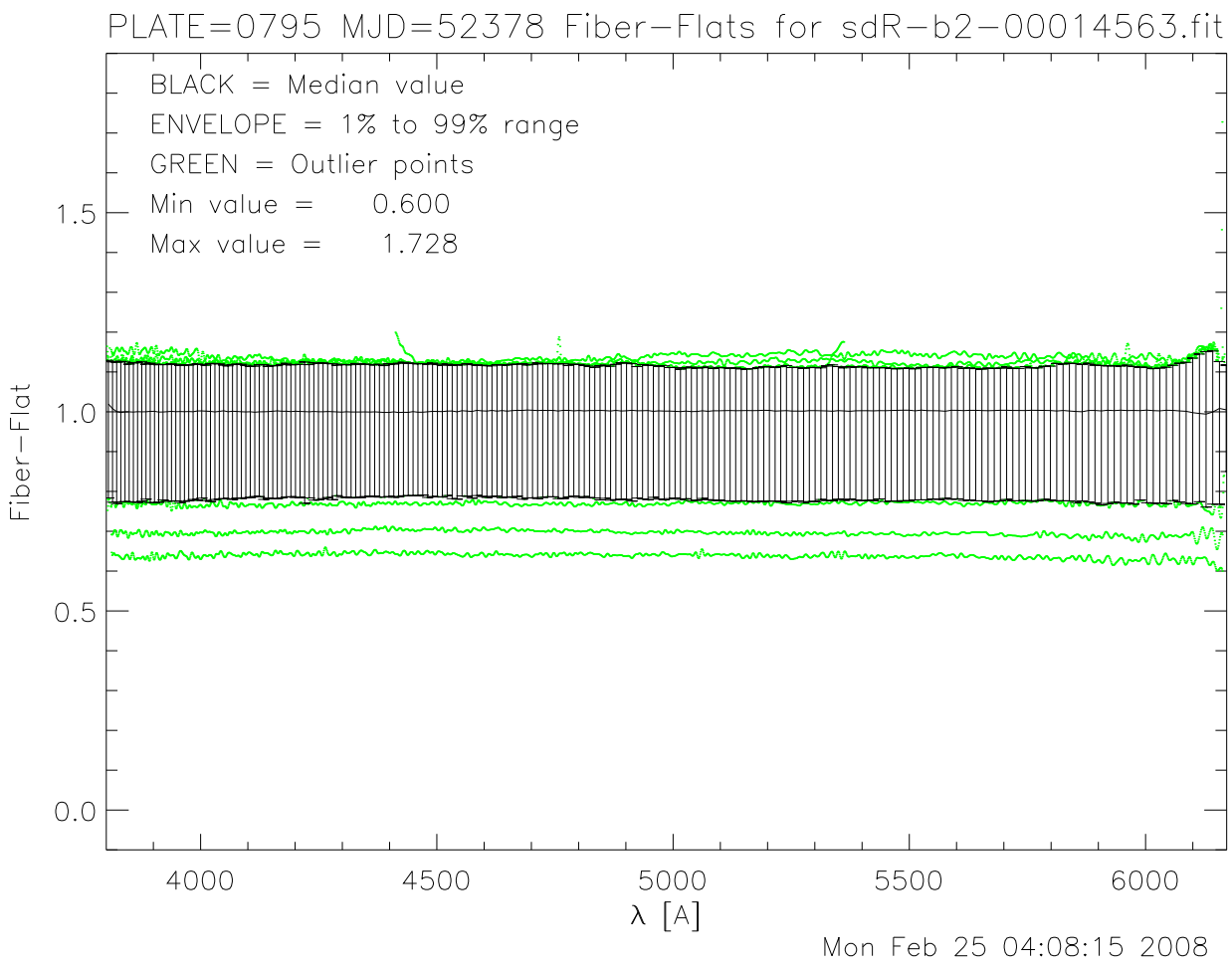

PLATE=0795 MJD=52378 sdR-b2-00014566.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

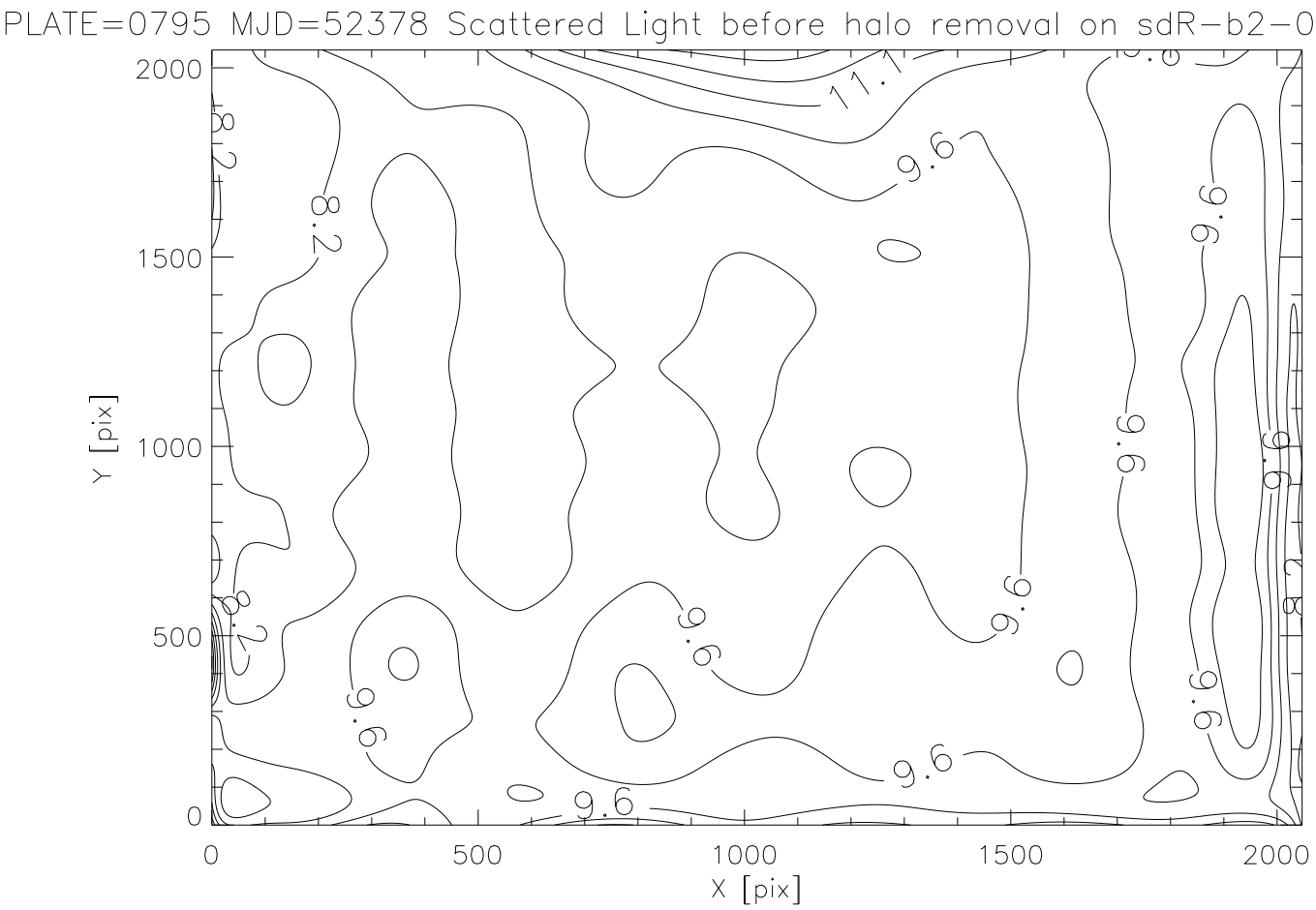

PLATE=0795 MJD=52378 sdR-b2-00014566.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

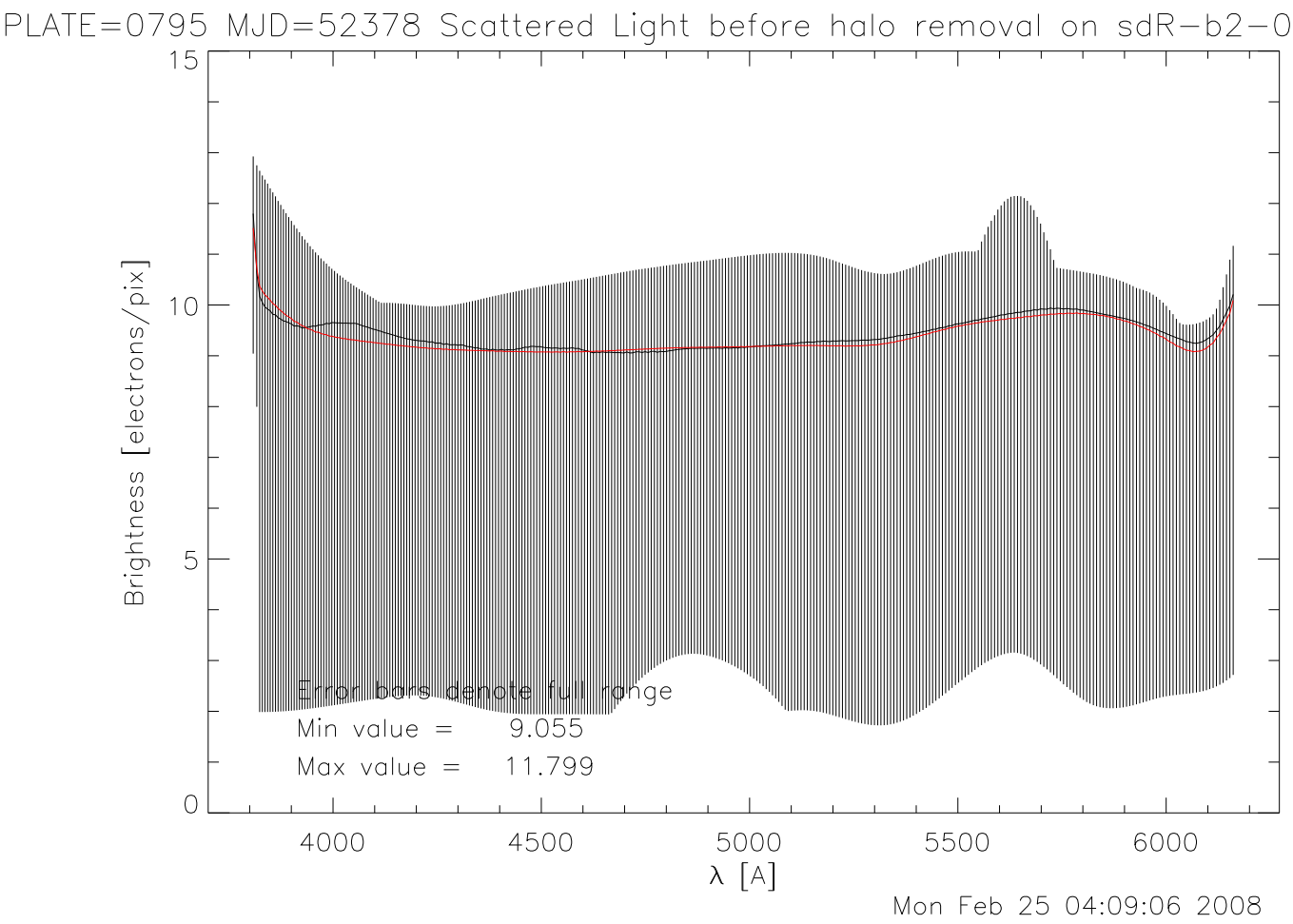

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014566.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

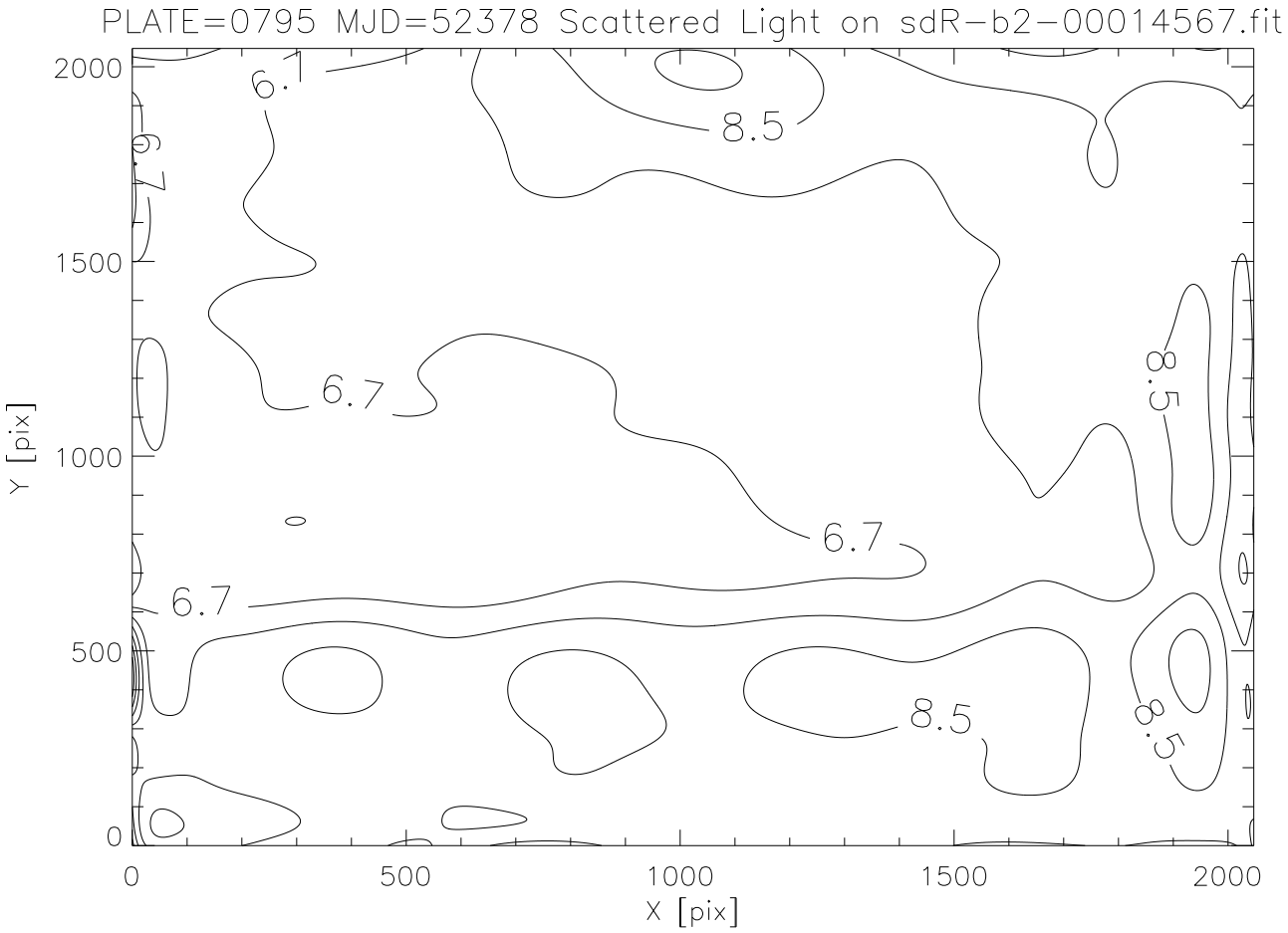

PLATE=0795 MJD=52378 sdR-b2-00014566.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED= sky fiber
Dispersion = 16.96 %
Fiber number
Focal Distance [mm]
Airmass

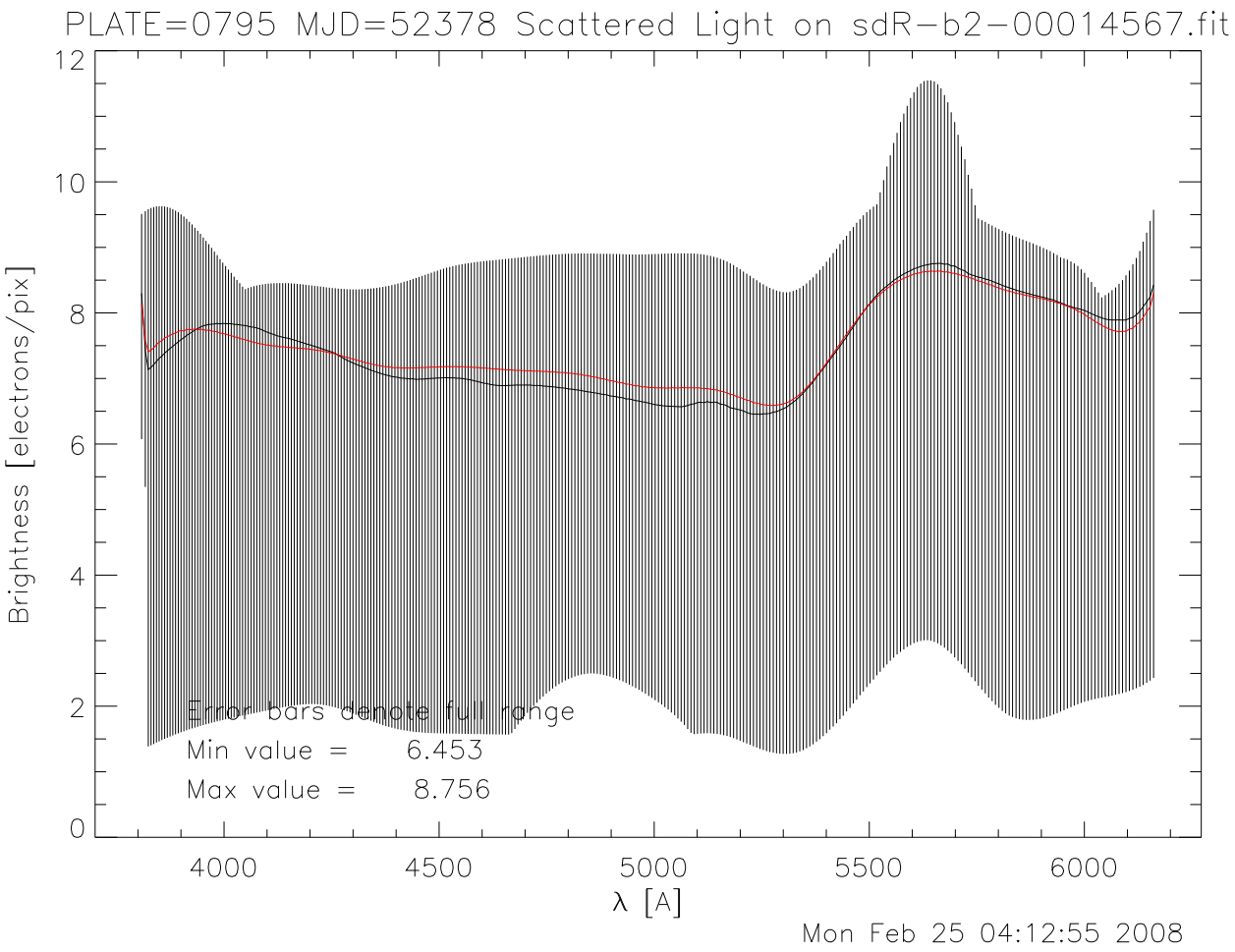

PLATE=0795 MJD=52378 sdR-b2-00014566.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED ± sky fiber
Dispersion = 1.81 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

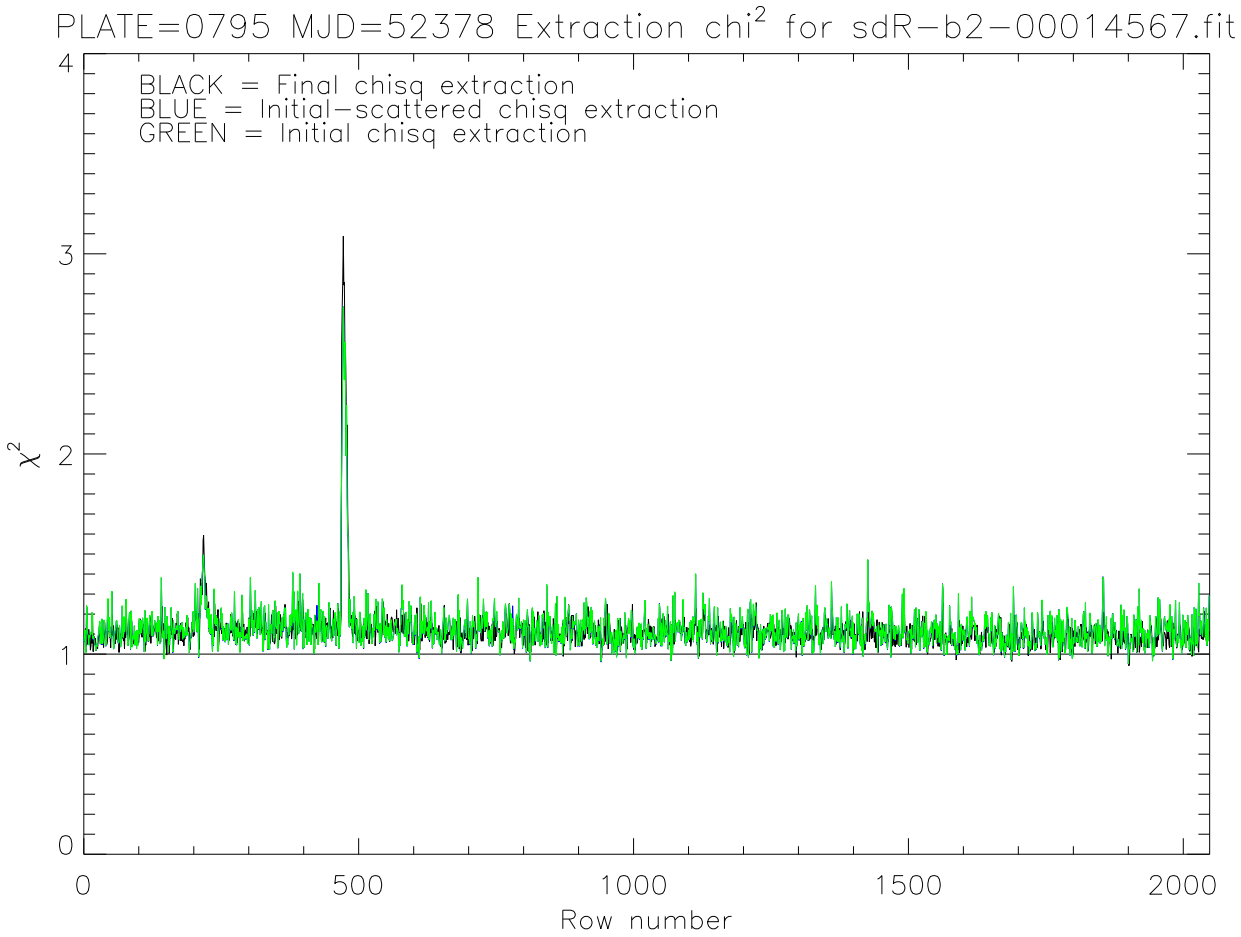

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.600
Max value = 1.728
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 04:08:15 2008

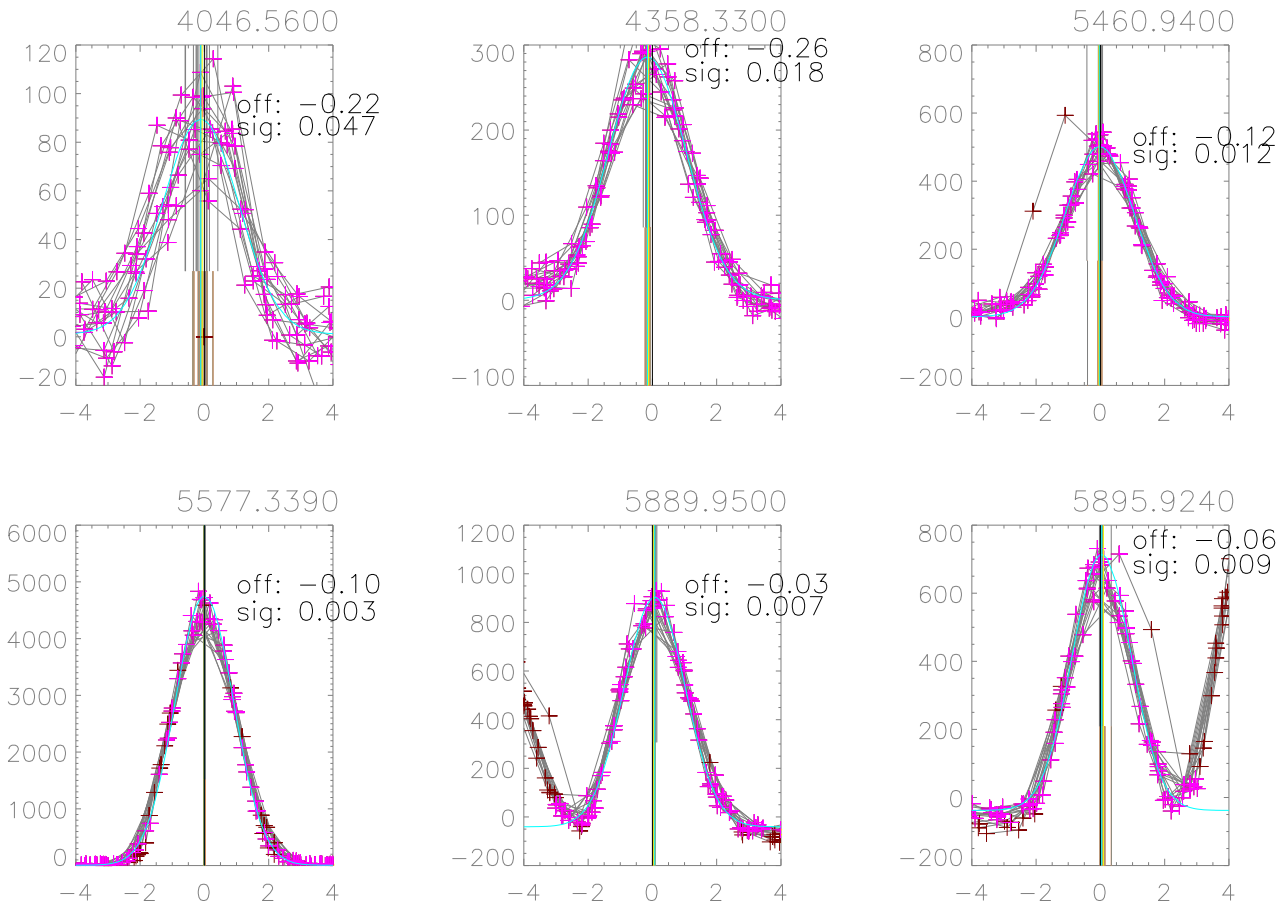

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−b2−00014567.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.1
9.6
9.6
9.6

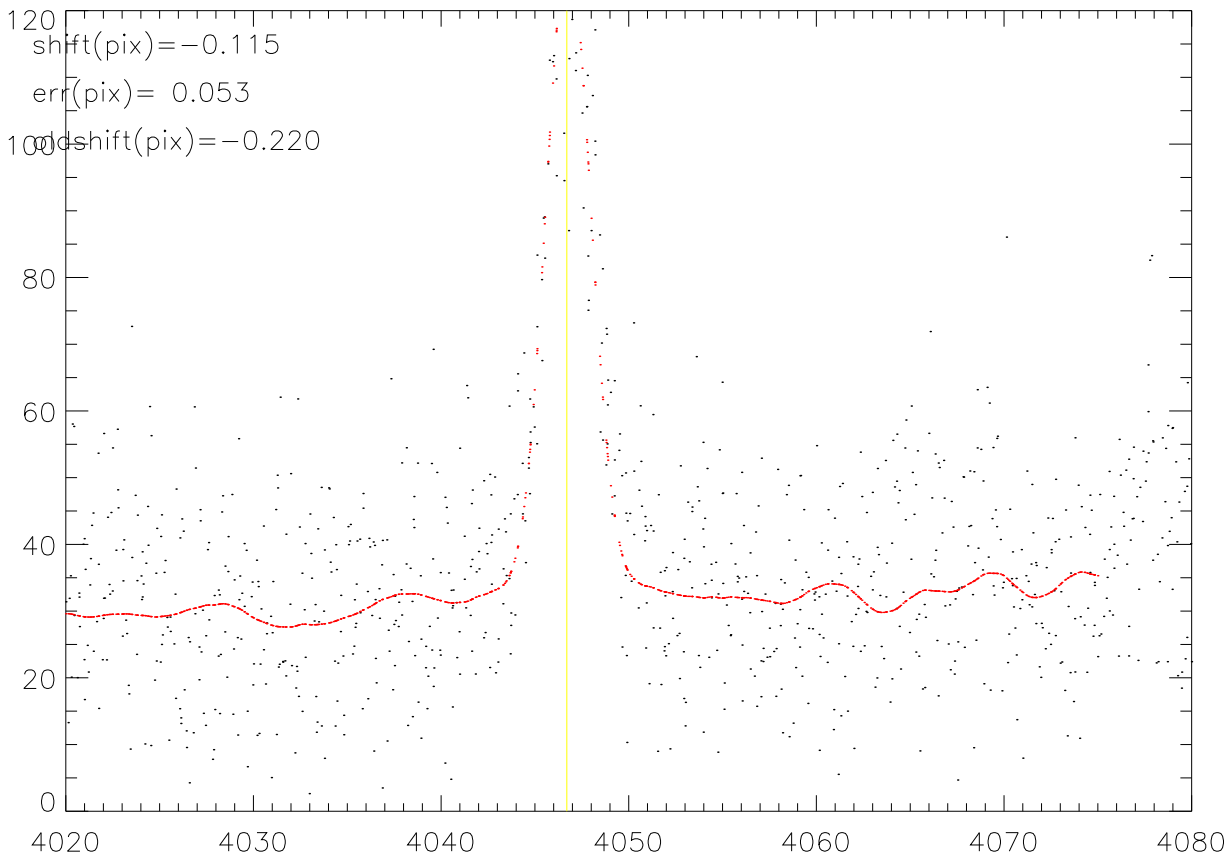

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014567.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.055
Max value = 11.799
Mon Feb 25 04:09:06 2008

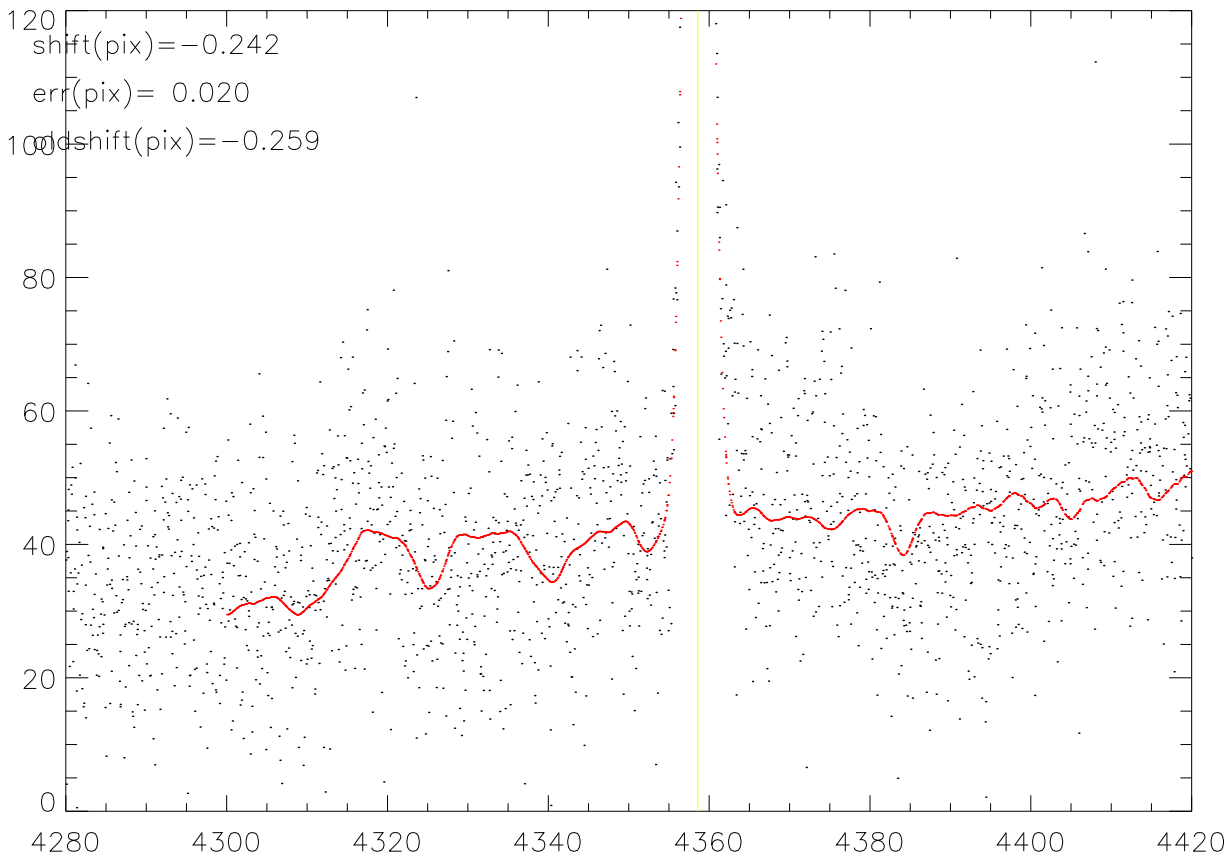

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014567.fit
6.1
8.5
6.7
6.7
8.5
6.7
8.5
8.5
0
0
500
1000
1500
2000
Y [pix]
X [pix]

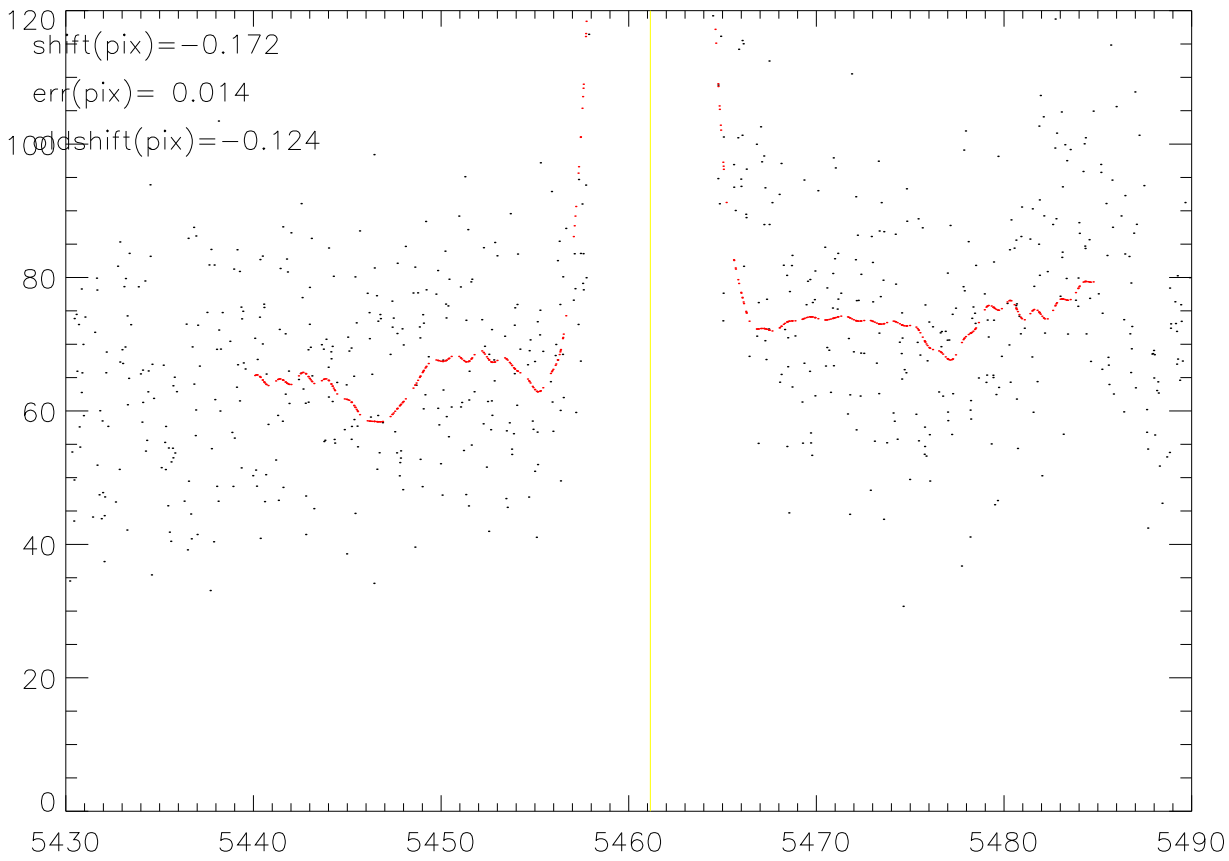

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014567.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.453
Max value = 8.756
Mon Feb 25 04:12:55 2008

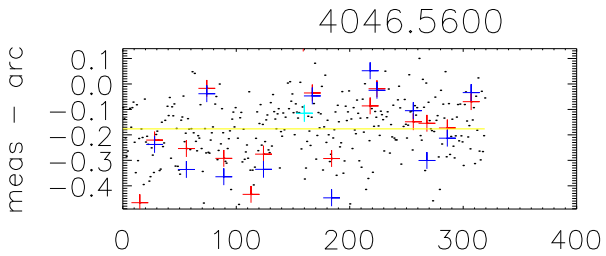

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b2-00014567.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

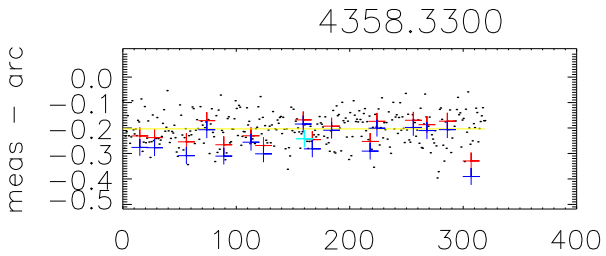

4046.5600
off: −0.22
sig: 0.047
4358.3300
off: −0.26
sig: 0.018
5460.9400
off: −0.12
sig: 0.012
5577.3390
off: −0.10
sig: 0.003
5889.9500
off: −0.03
sig: 0.007
5895.9240
off: −0.06
sig: 0.009

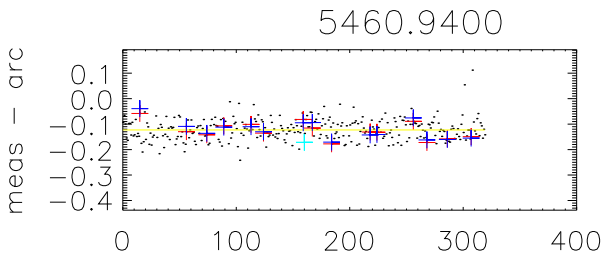

shift(pix)=−0.115
err(pix)= 0.053
oldshift(pix)=−0.220
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

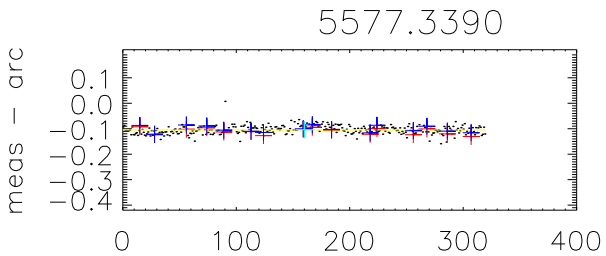

shift(pix)=−0.242
err(pix)= 0.020
oldshift(pix)=−0.259
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

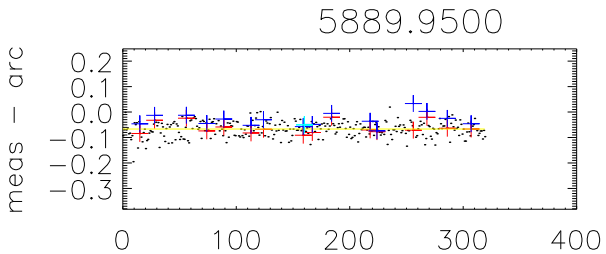

shift(pix)=−0.172
err(pix)= 0.014
oldshift(pix)=−0.124
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

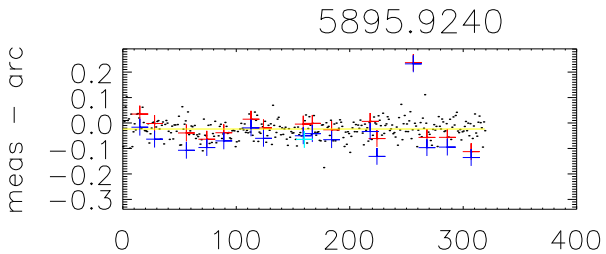

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

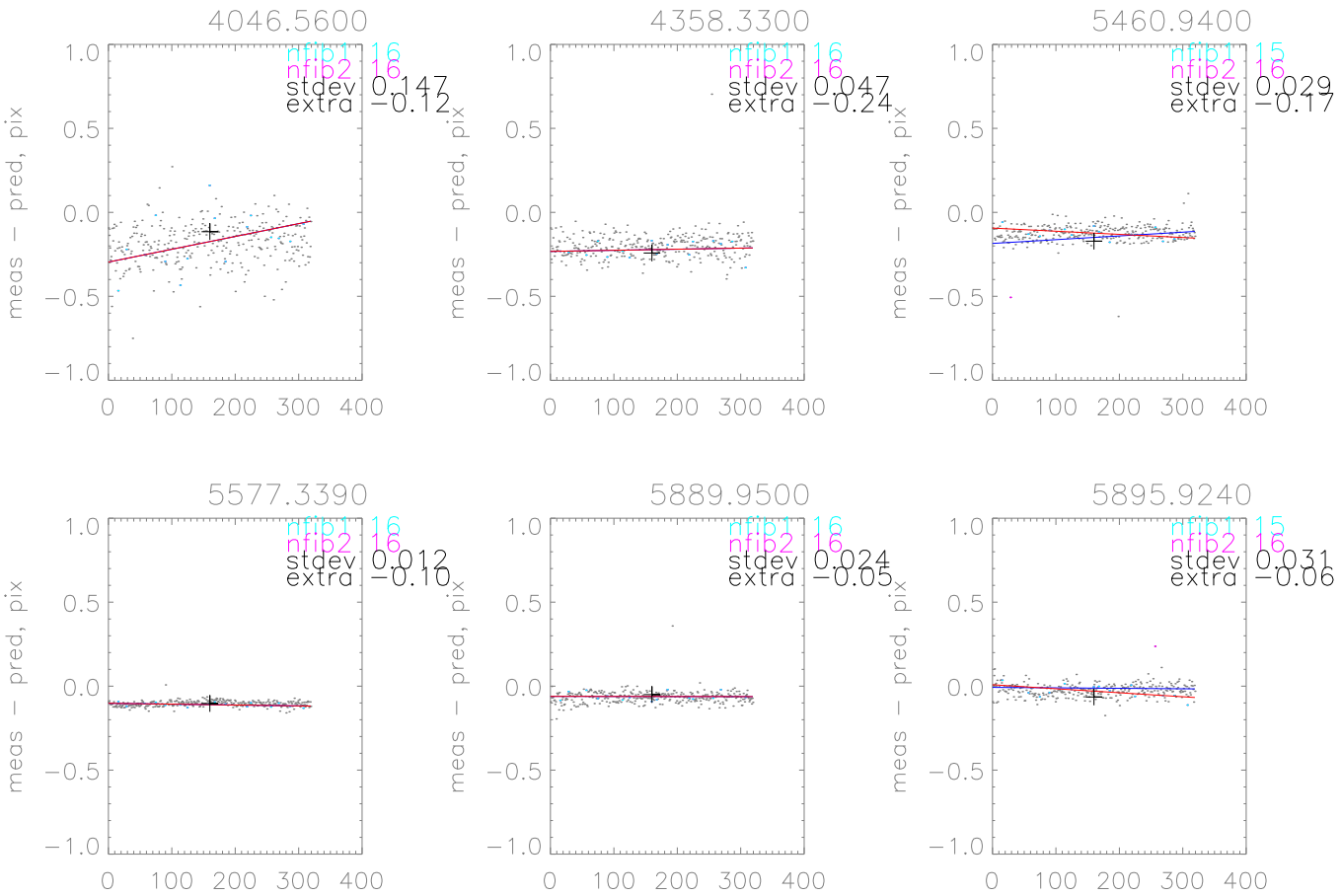

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

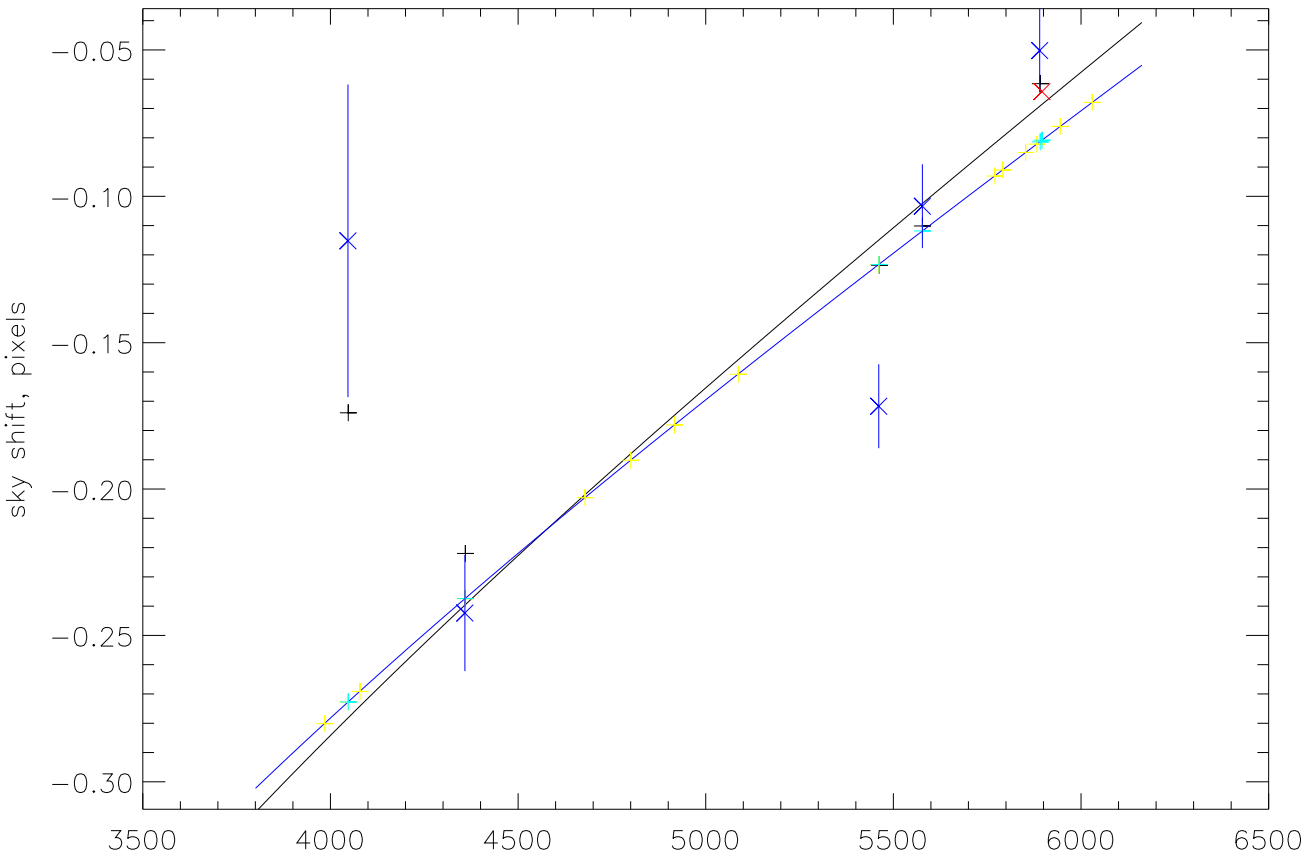

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

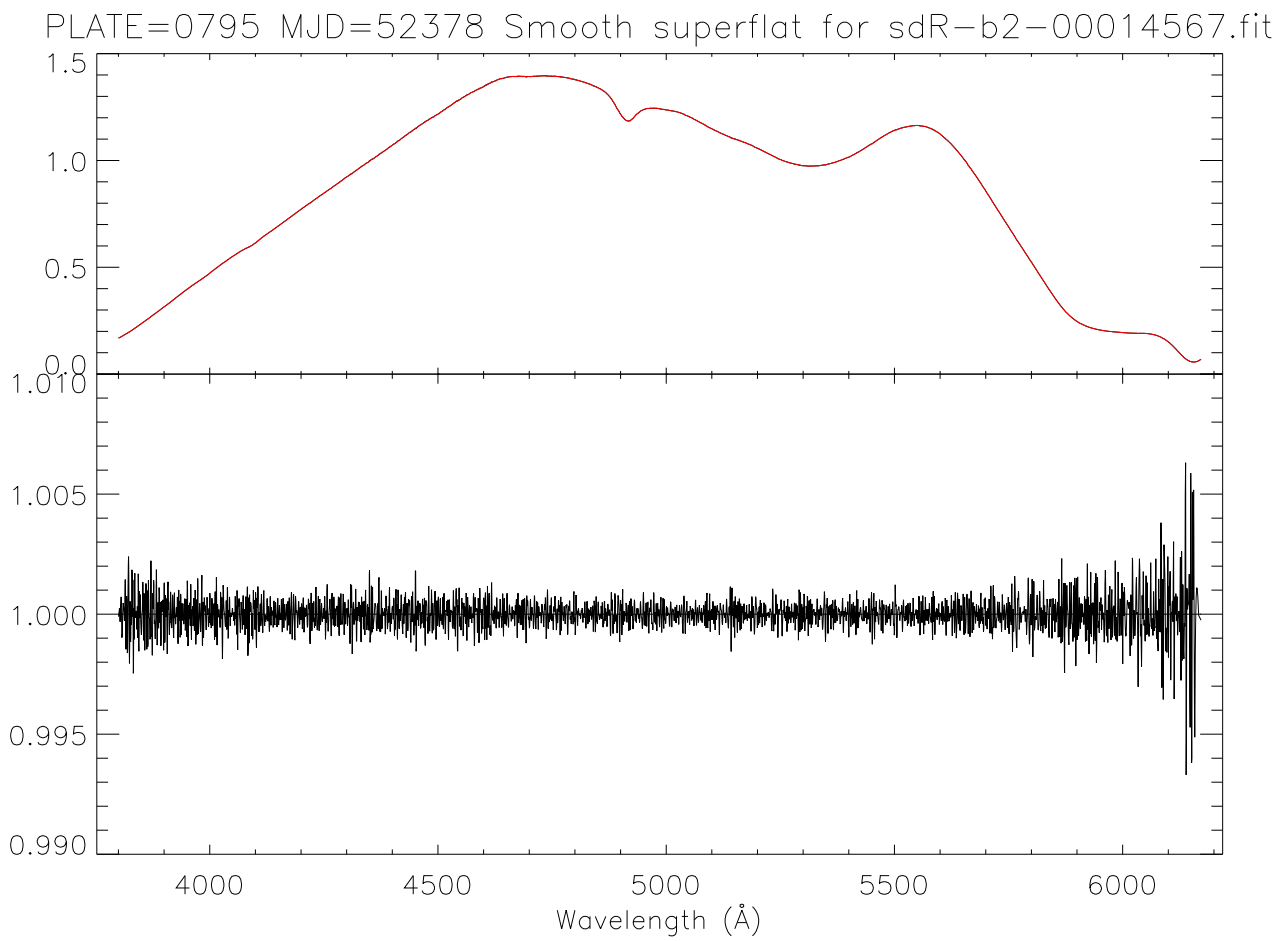

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

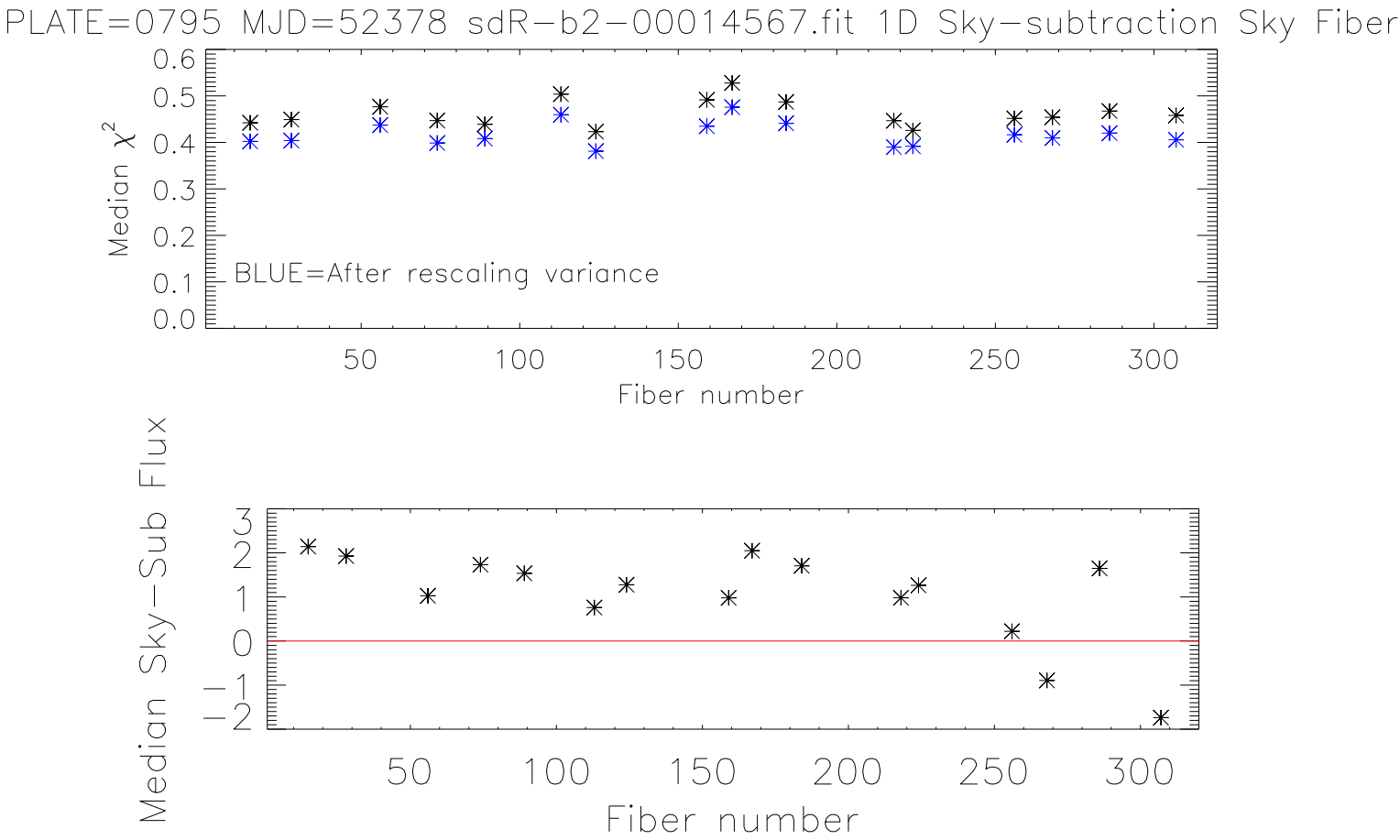

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

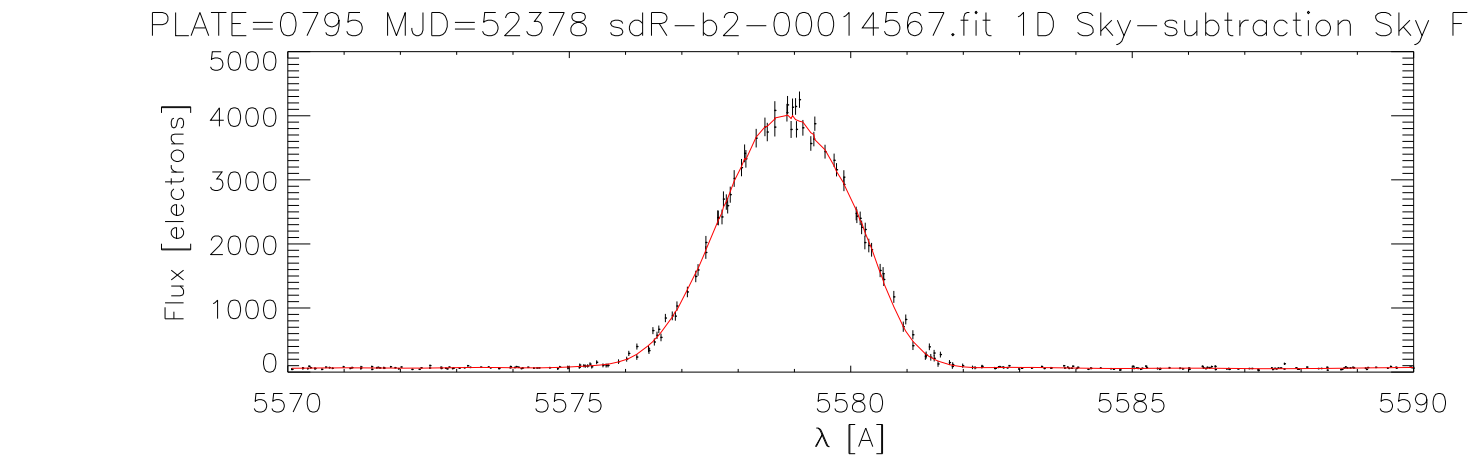

4046.5600
nfib1 16
nfib2 16
stdev 0.147
extra −0.12
4358.3300
nfib1 16
nfib2 16
stdev 0.047
extra −0.24
5460.9400
nfib1 15
nfib2 16
stdev 0.029
extra −0.17
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra −0.10
5889.9500
nfib1 16
nfib2 16
stdev 0.024
extra −0.05
5895.9240
nfib1 15
nfib2 16
stdev 0.031
extra −0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

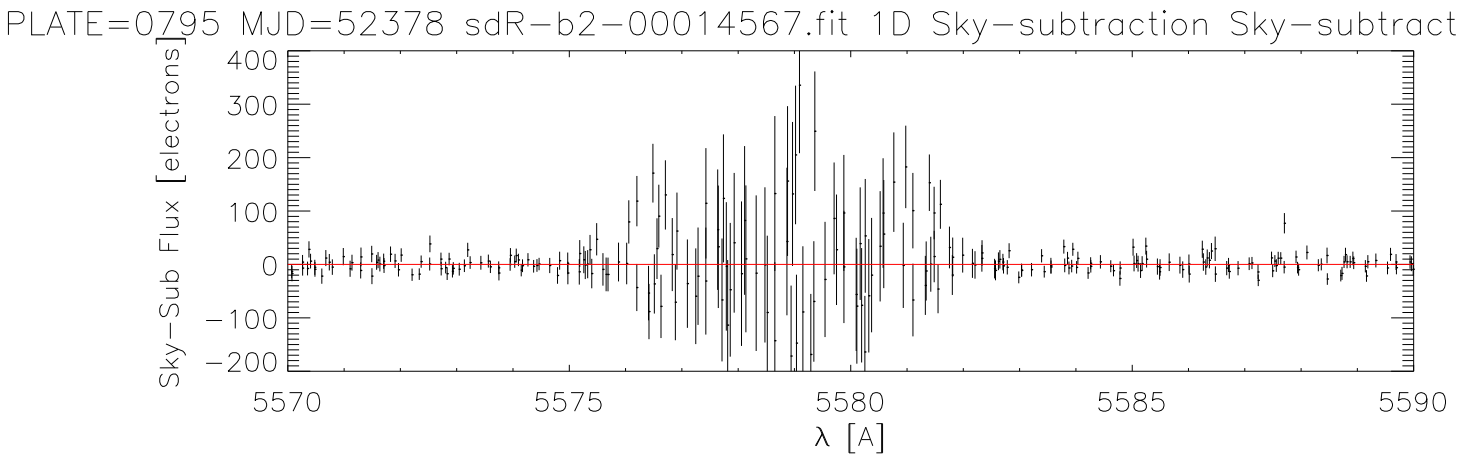

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

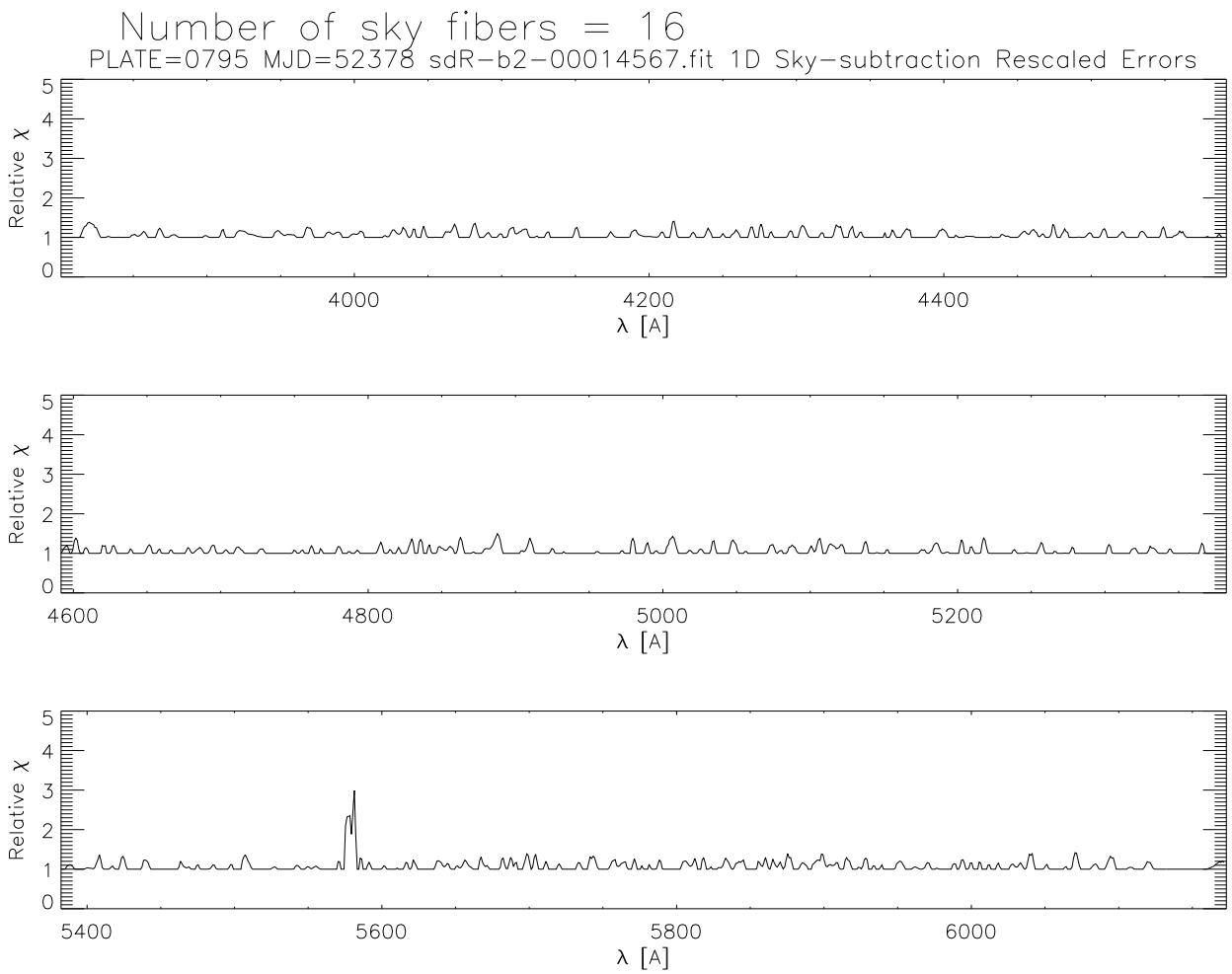
es= −0.0000

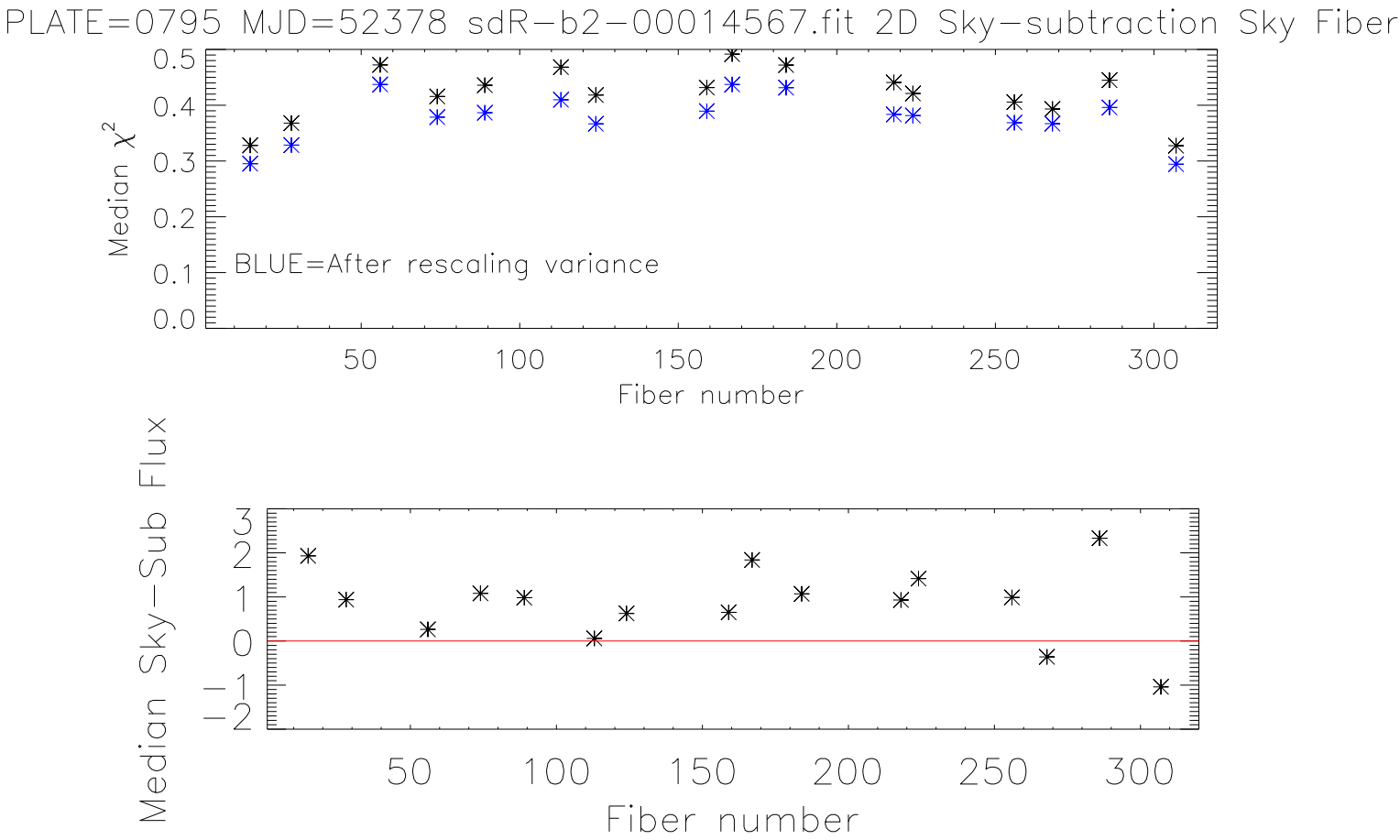

PLATE=0795 MJD=52378 Smooth superflat for sdR−b2−00014567.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

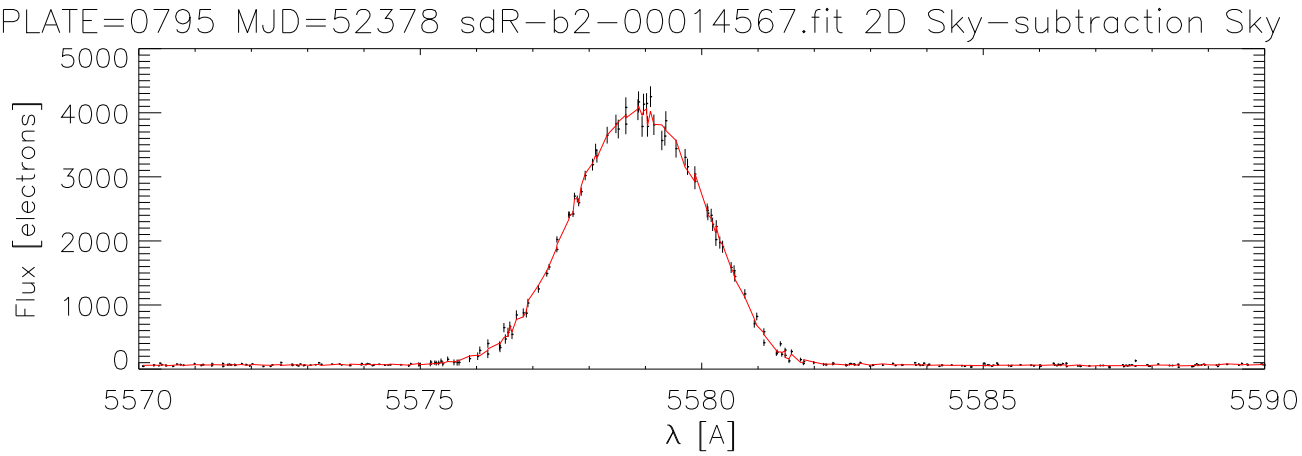

PLATE=0795 MJD=52378 sdR-b2-00014567.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

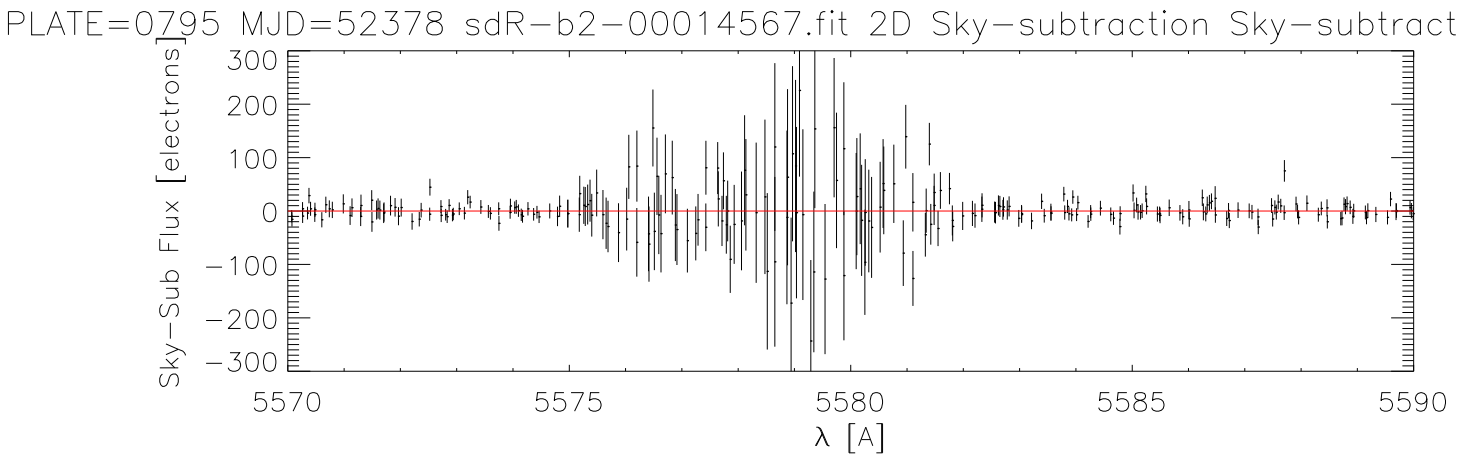

PLATE=0795 MJD=52378 sdR-b2-00014567.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

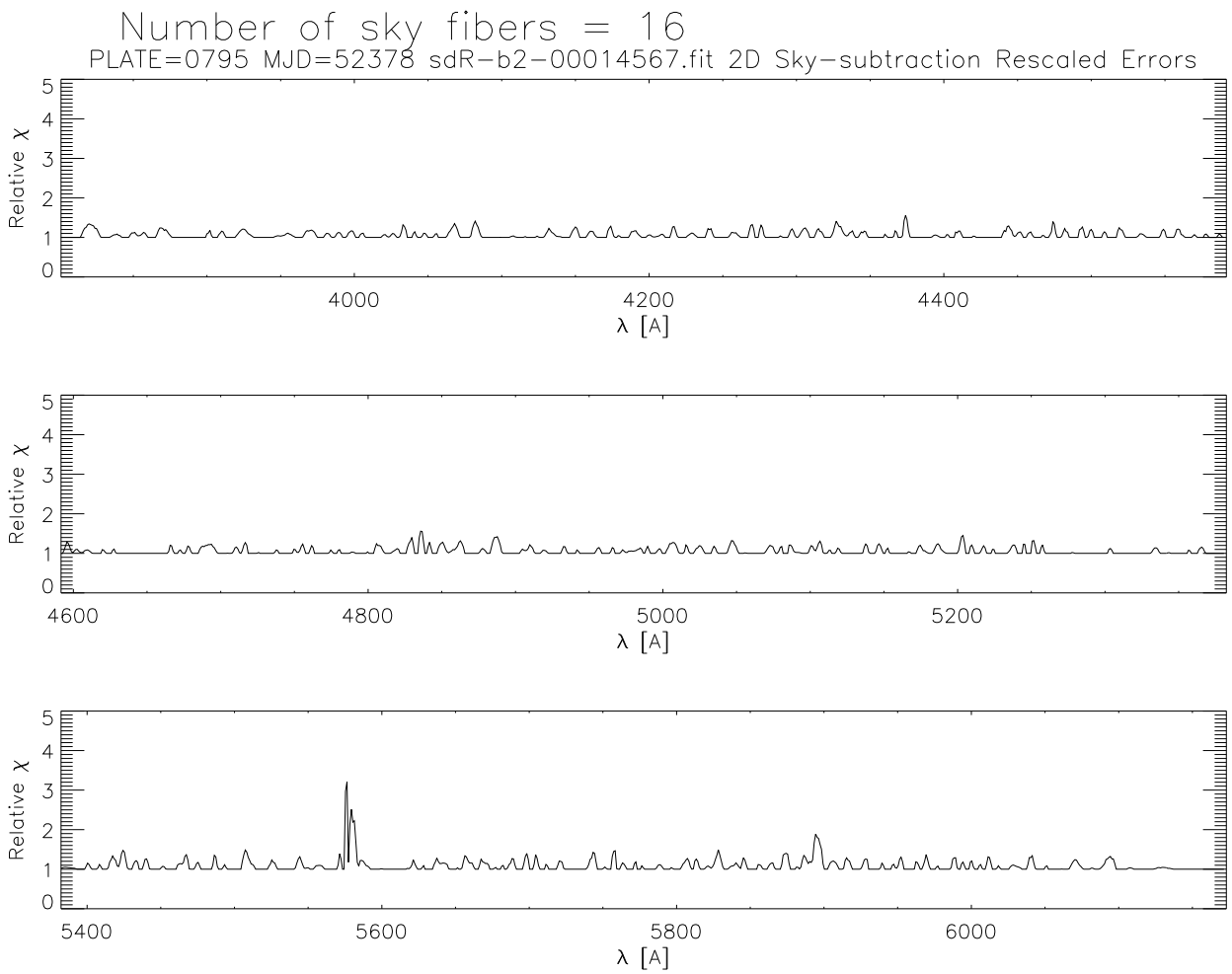

PLATE=0795 MJD=52378 sdR-b2-00014567.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

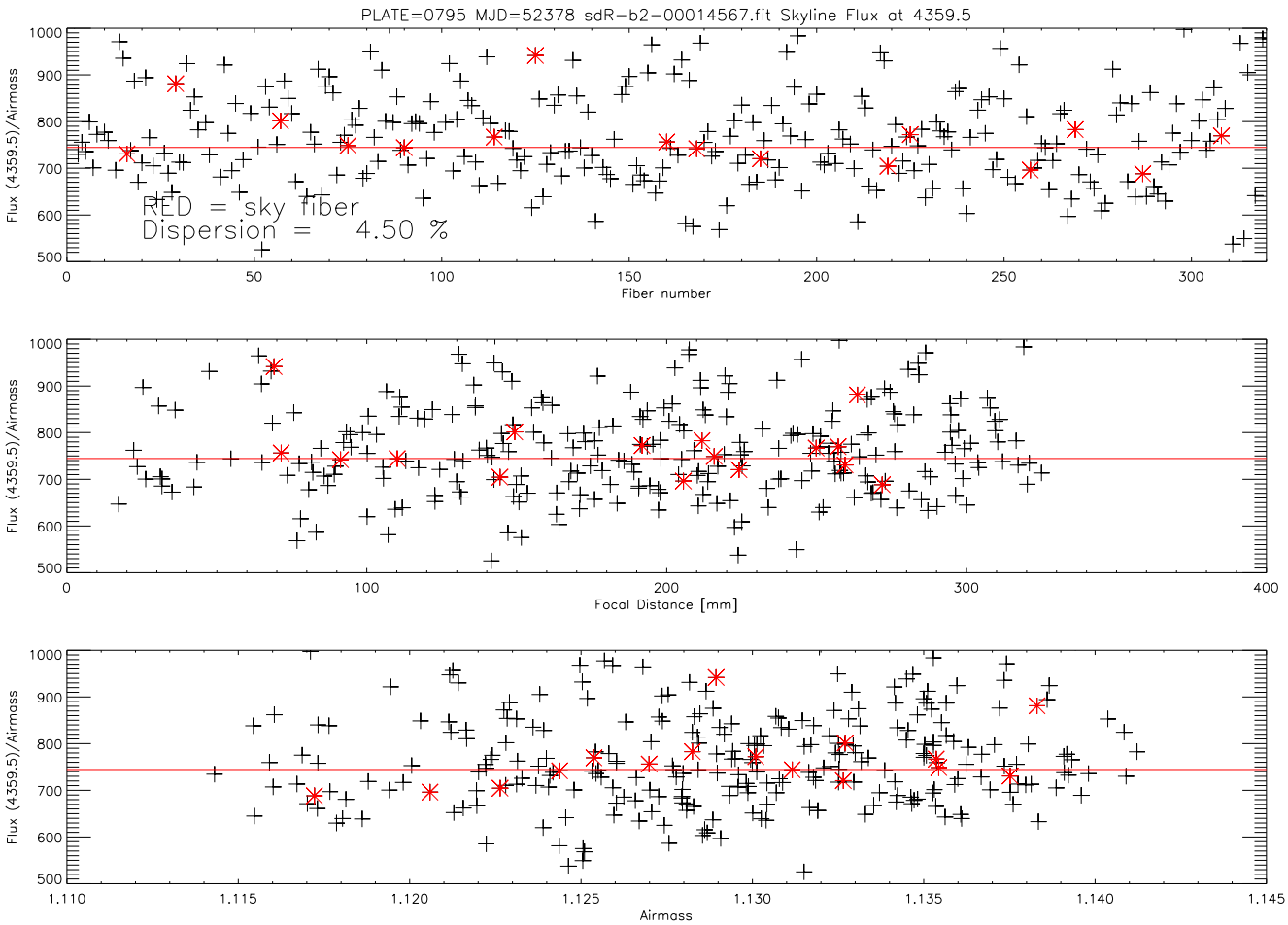

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014567.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

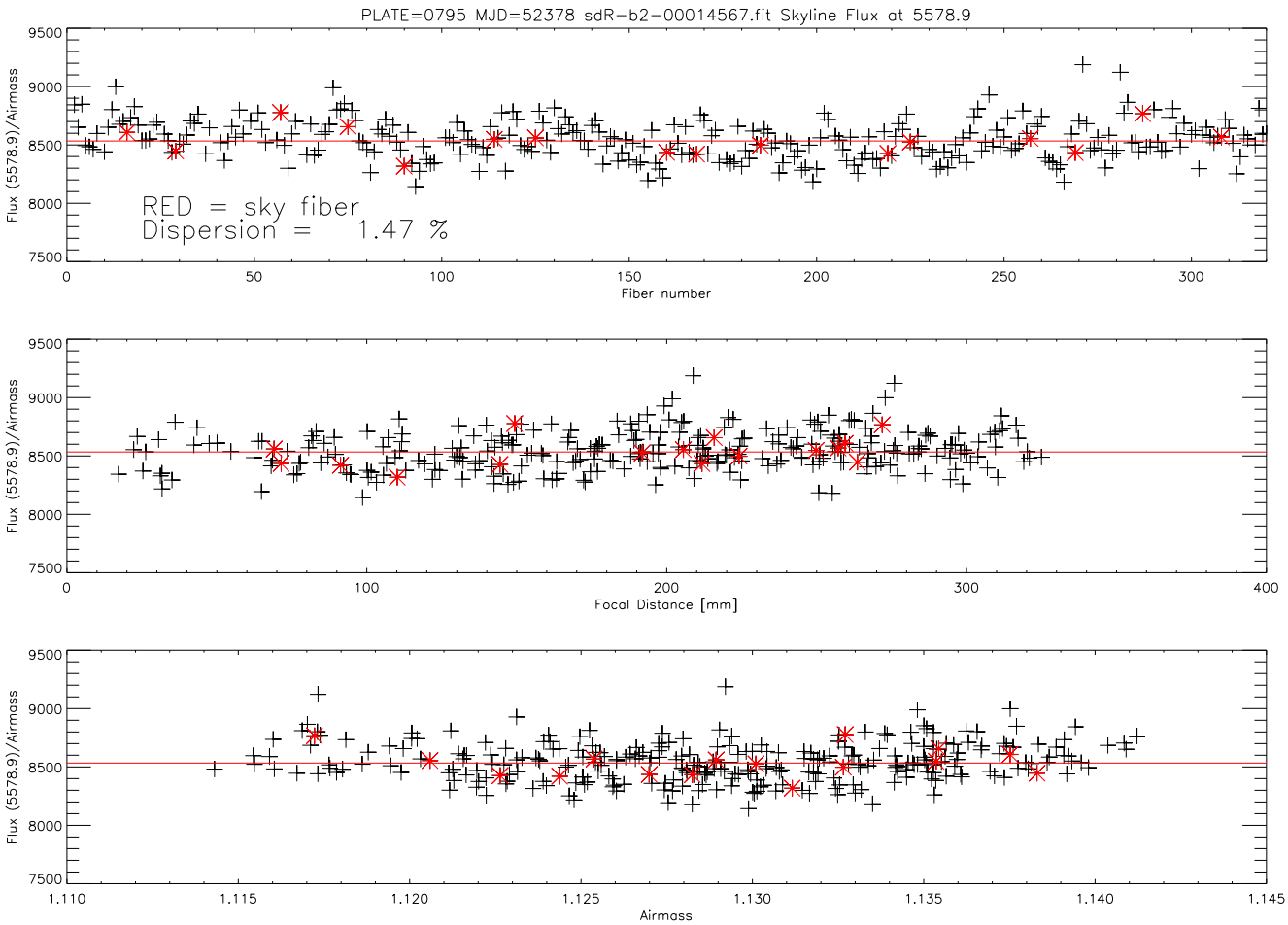

PLATE=0795 MJD=52378 sdR-b2-00014567.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

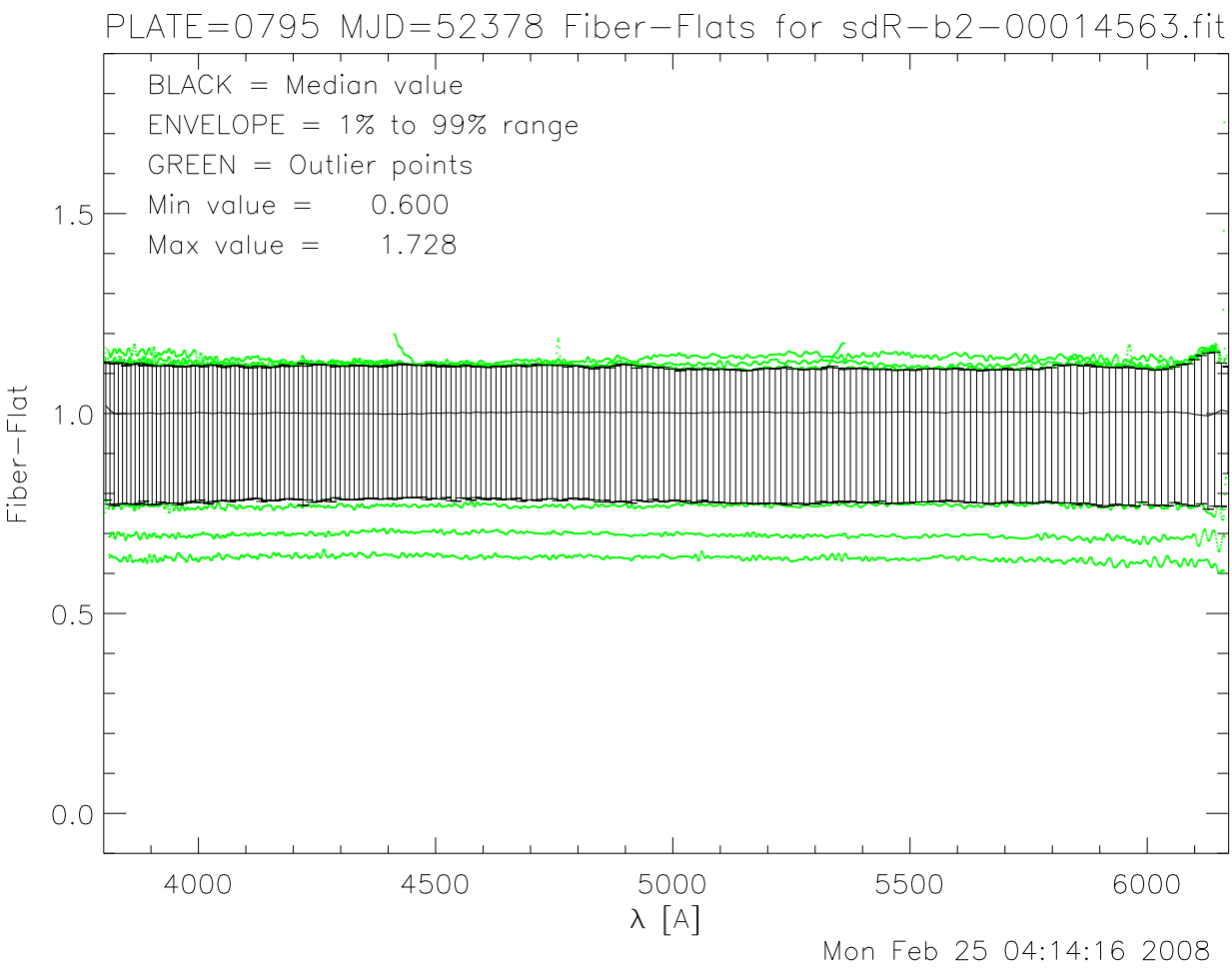

PLATE=0795 MJD=52378 sdR-b2-00014567.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

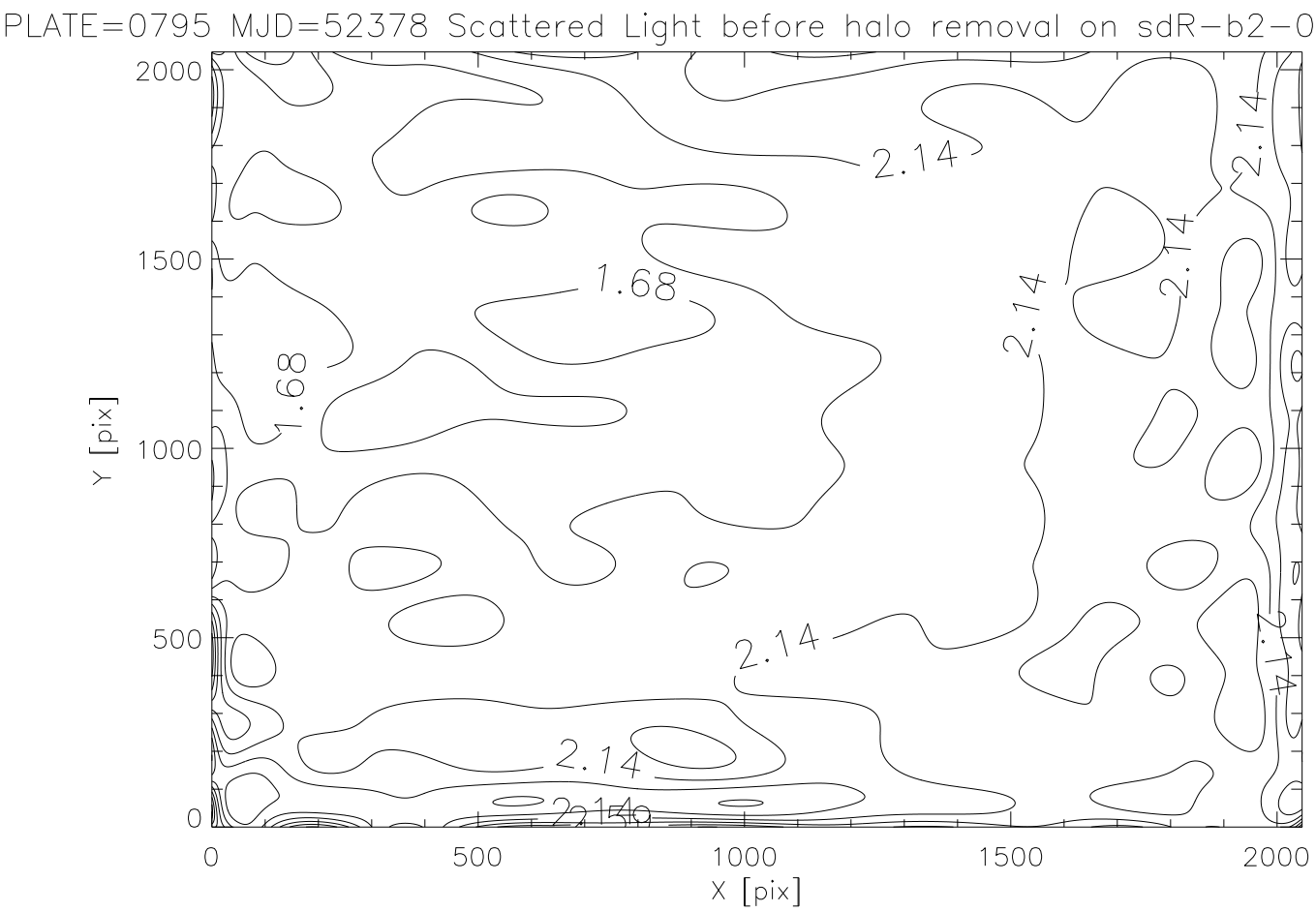

PLATE=0795 MJD=52378 sdR-b2-00014567.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

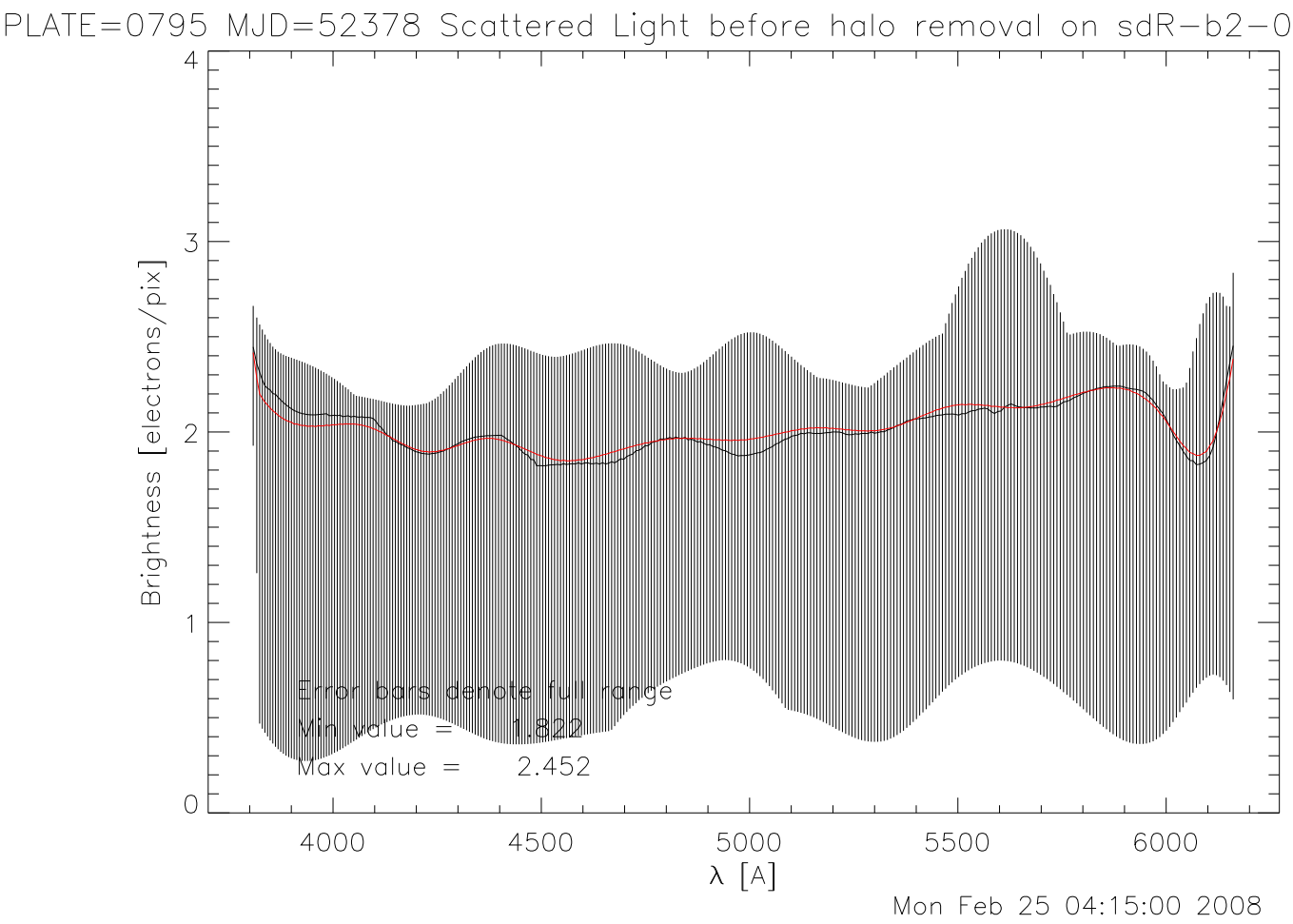

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014567.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

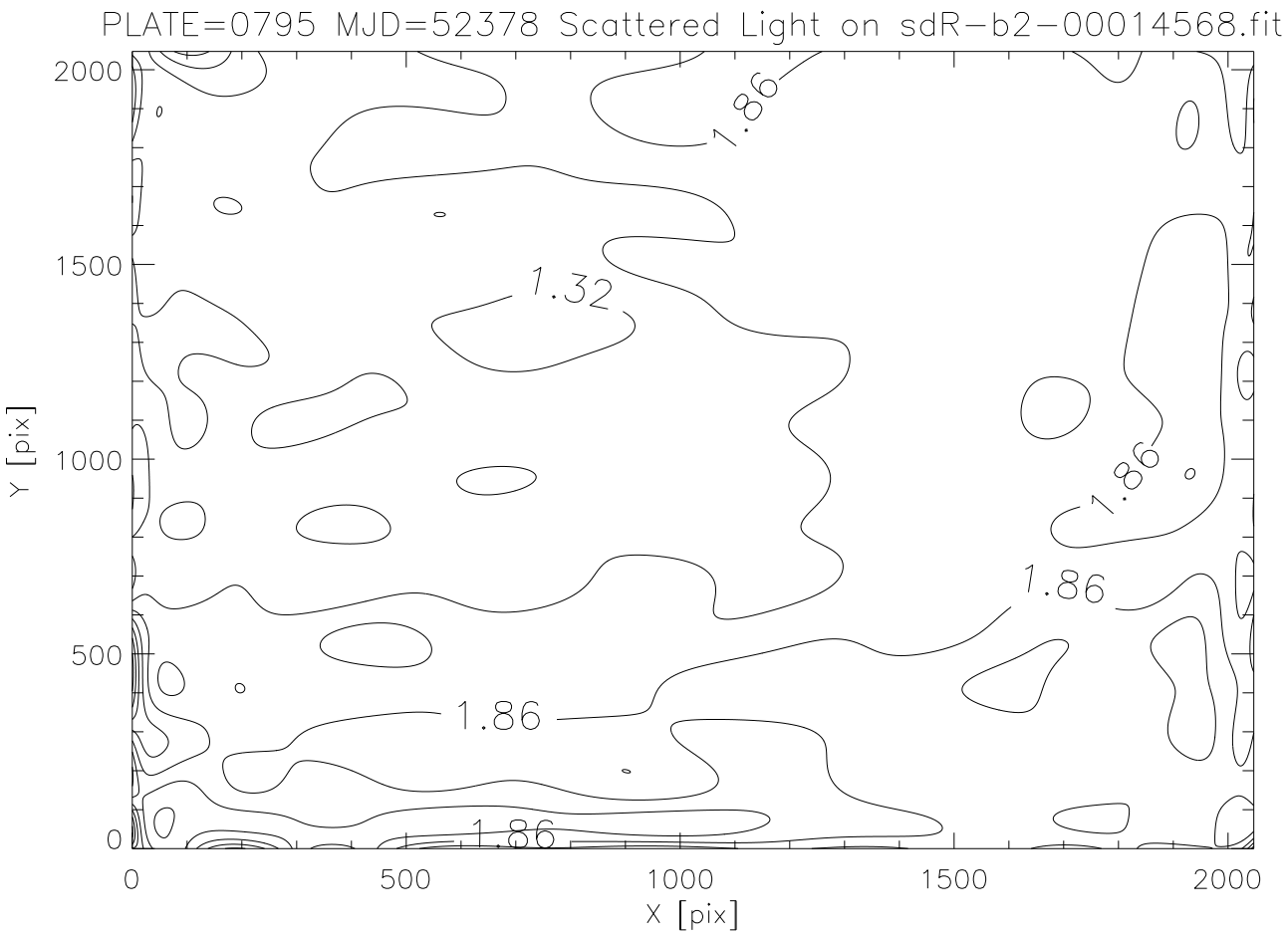

PLATE=0795 MJD=52378 sdR-b2-00014567.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 4.50 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

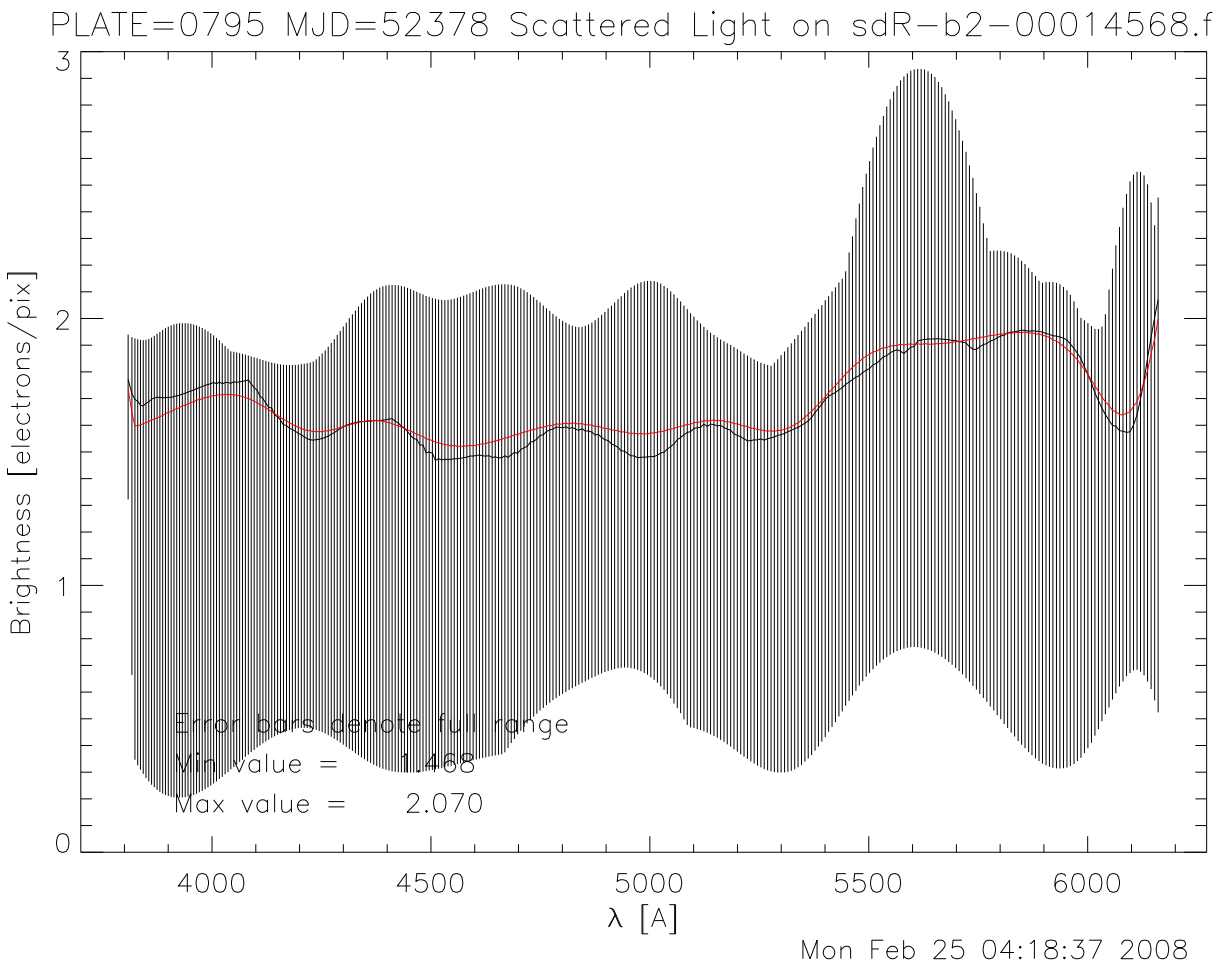

PLATE=0795 MJD=52378 sdR-b2-00014567.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.47 %
Fiber number
Focal Distance [mm]
Airmass

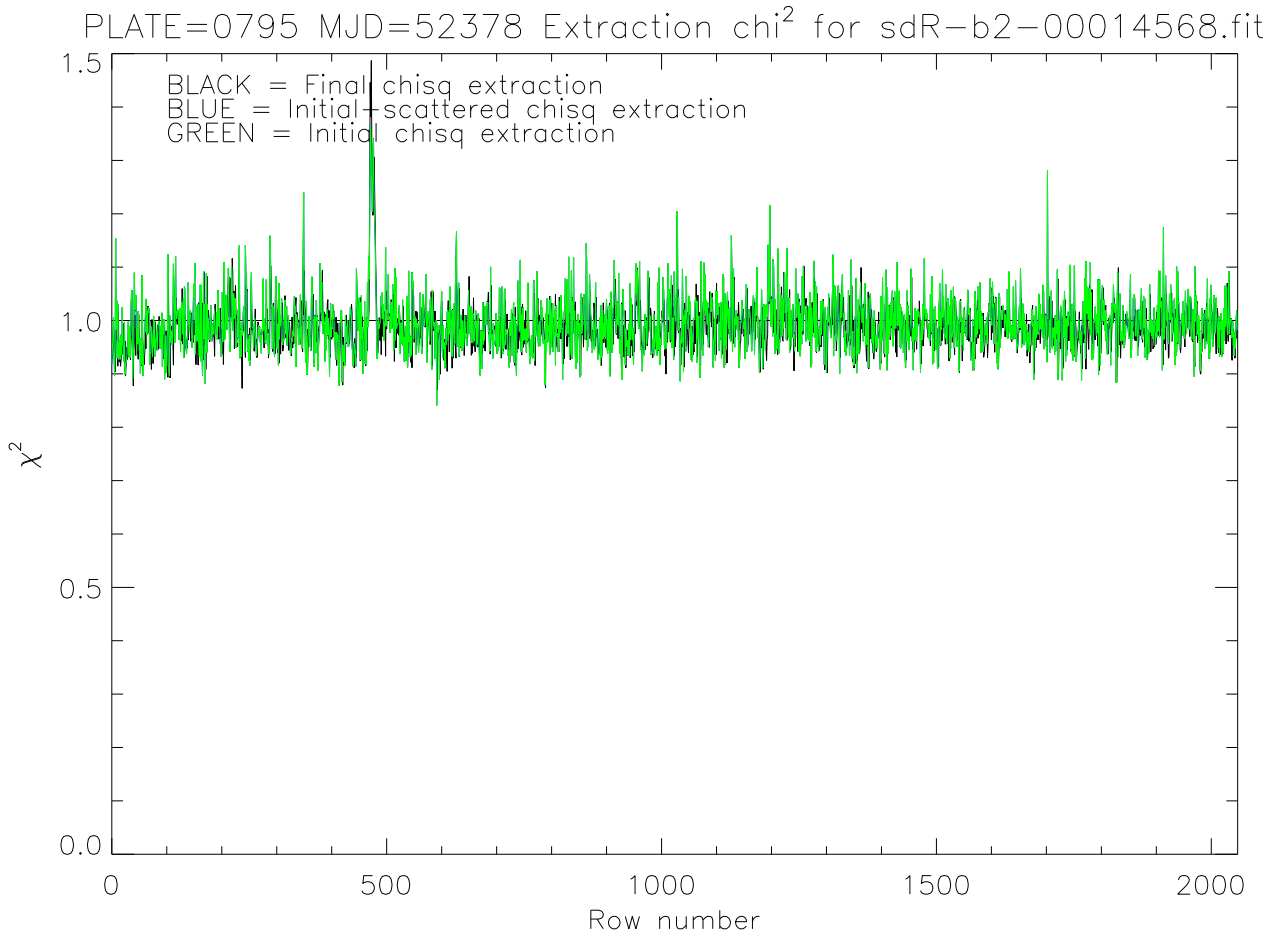

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.600
Max value = 1.728
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 04:14:16 2008

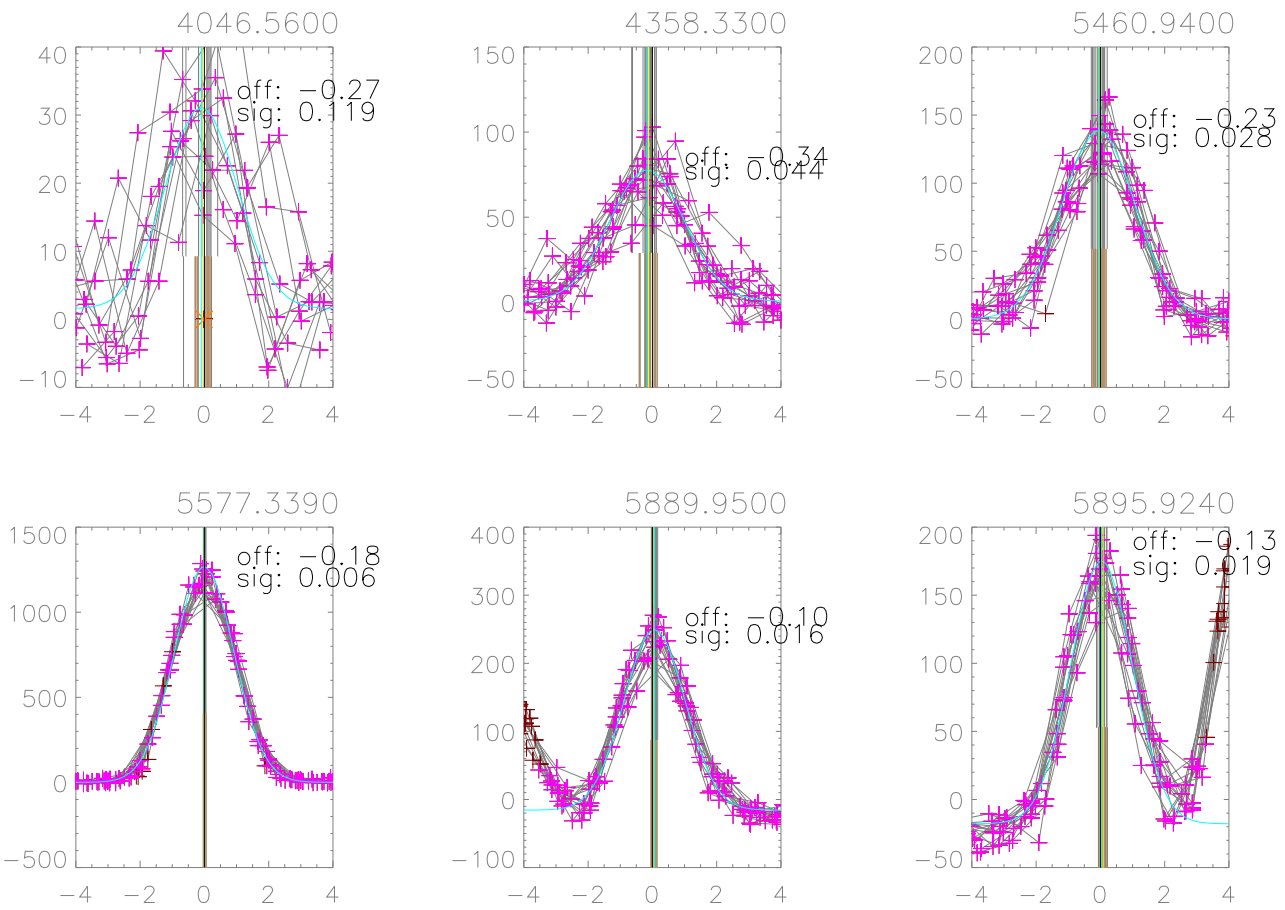

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014568.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.14
1.68

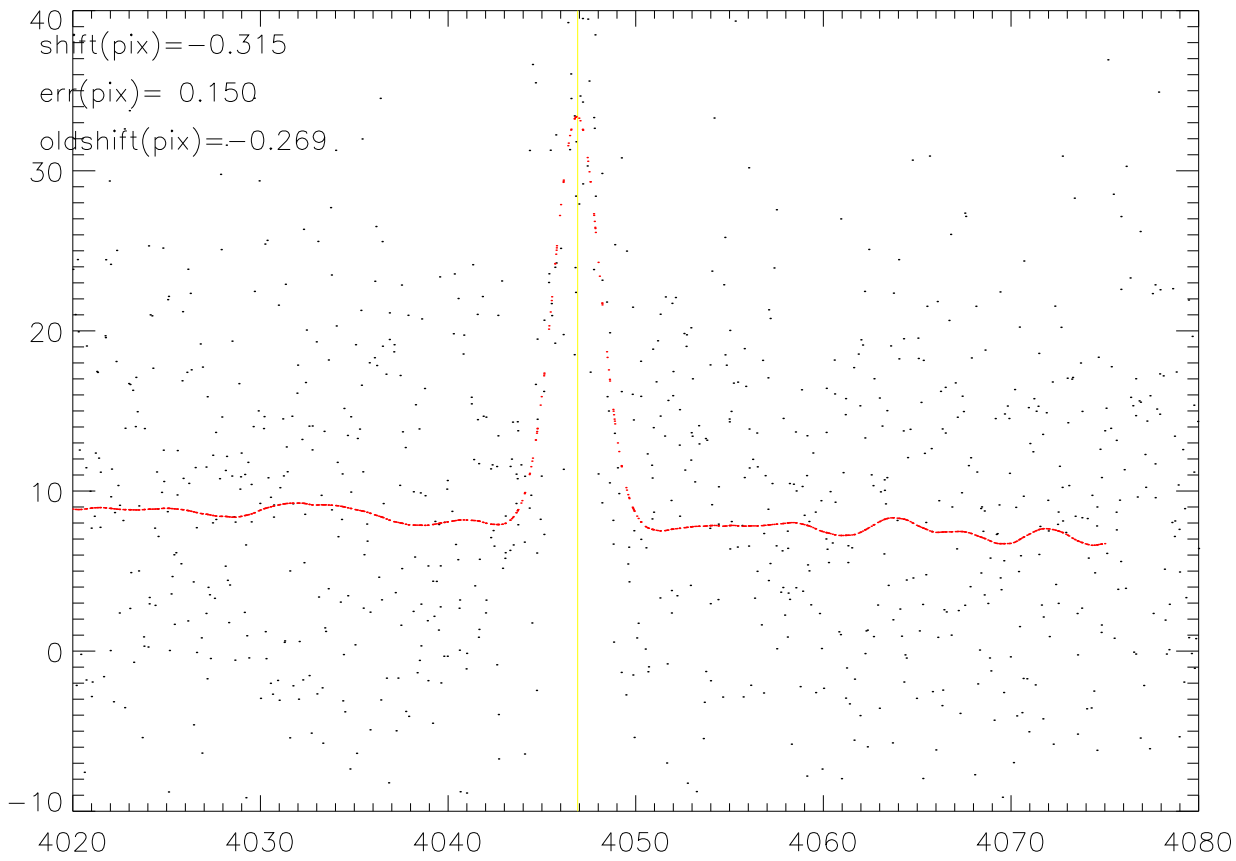

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014568.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.822
Max value = 2.452
Mon Feb 25 04:15:00 2008

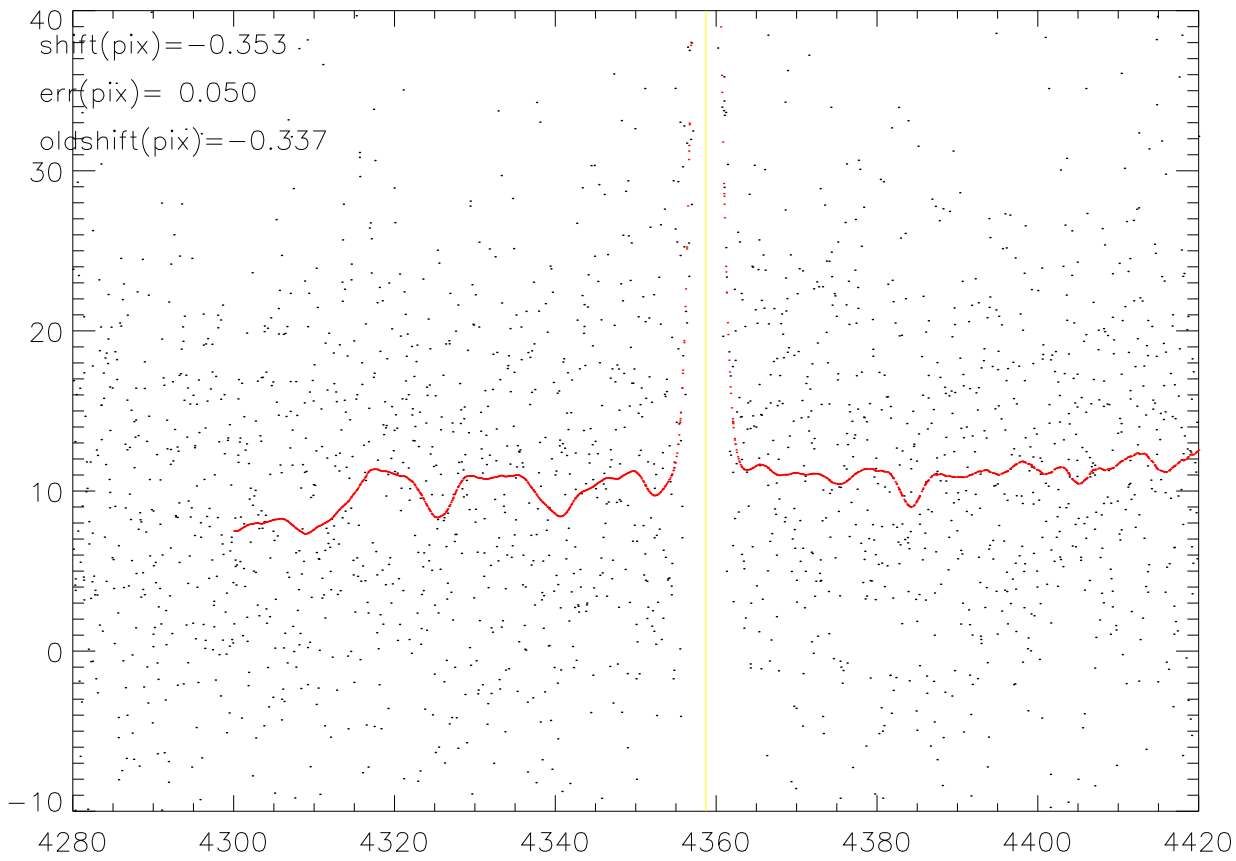

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014568.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.86
1.32
1.86
1.86
1.86
0
0
0

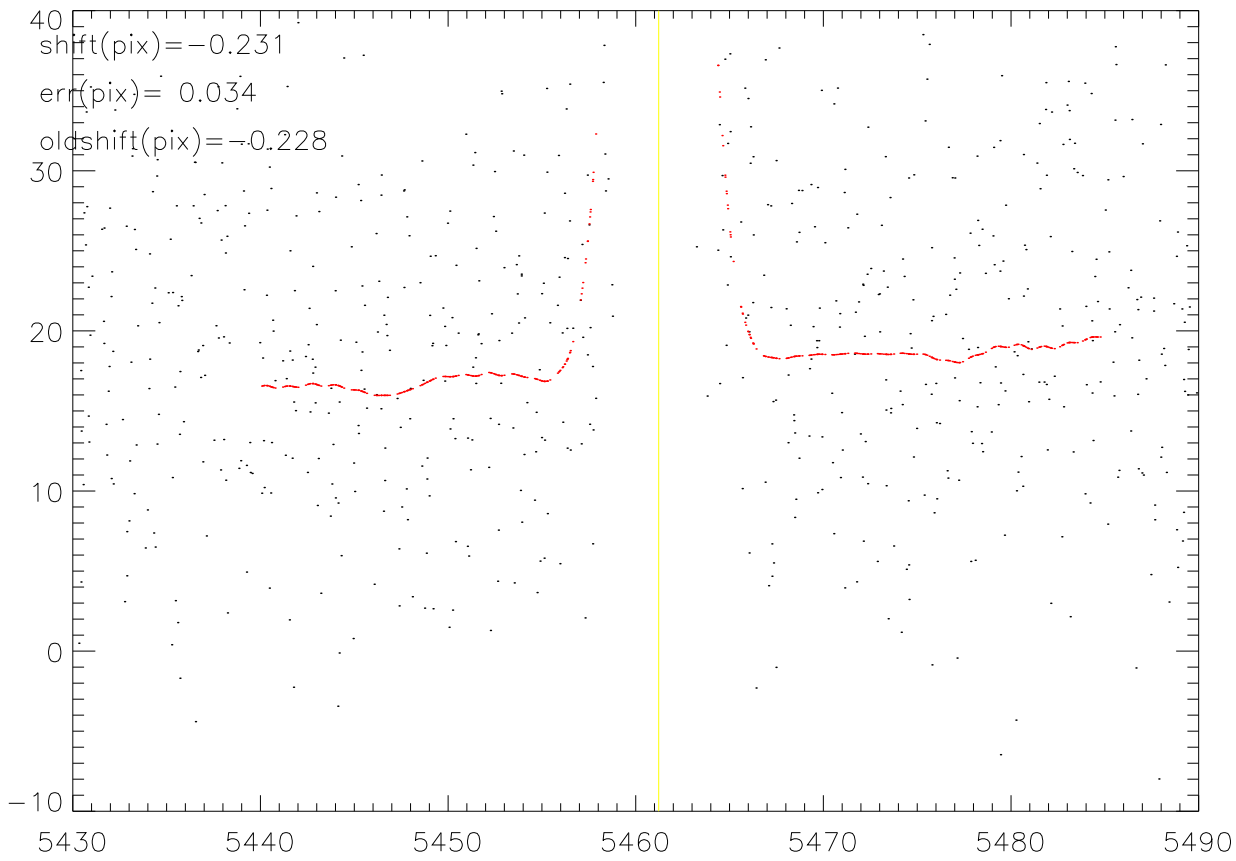

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014568.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.468
Max value = 2.070
Mon Feb 25 04:18:37 2008

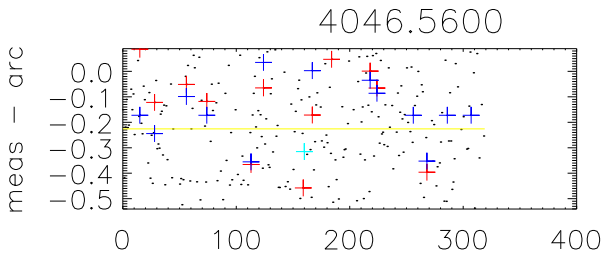

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b2-00014568.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

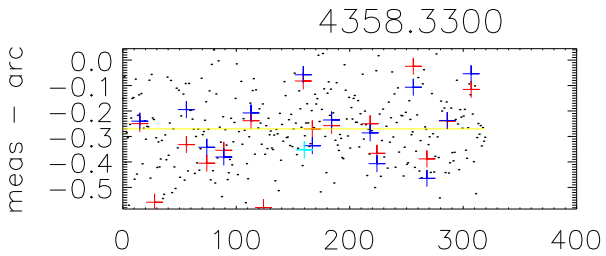

4046.5600
off: −0.27
sig: 0.119
4358.3300
off: −0.34
sig: 0.044
5460.9400
off: −0.23
sig: 0.028
5577.3390
off: −0.18
sig: 0.006
5889.9500
off: −0.10
sig: 0.016
5895.9240
off: −0.13
sig: 0.019

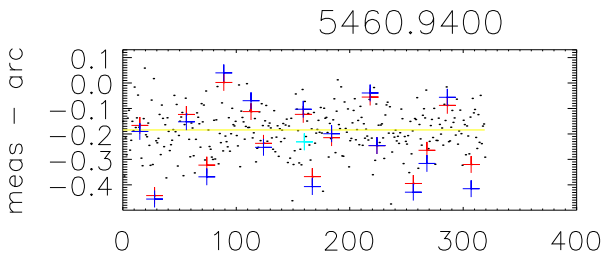

shift(pix)=−0.315
err(pix)= 0.150
oldshift(pix)=−0.269
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

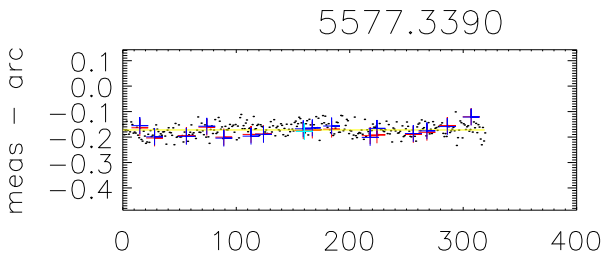

shift(pix)=−0.353
err(pix)= 0.050
oldshift(pix)=−0.337
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

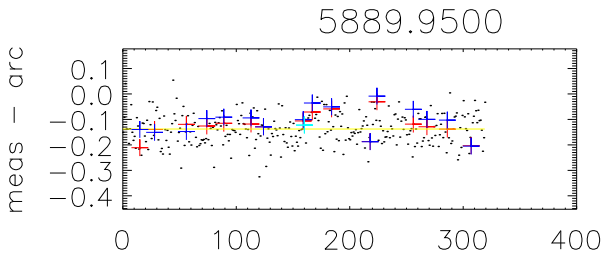

shift(pix)=−0.231
err(pix)= 0.034
oldshift(pix)=−0.228
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

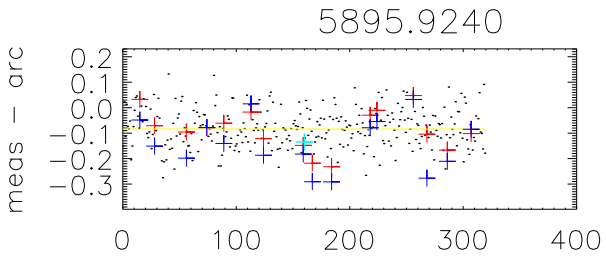

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

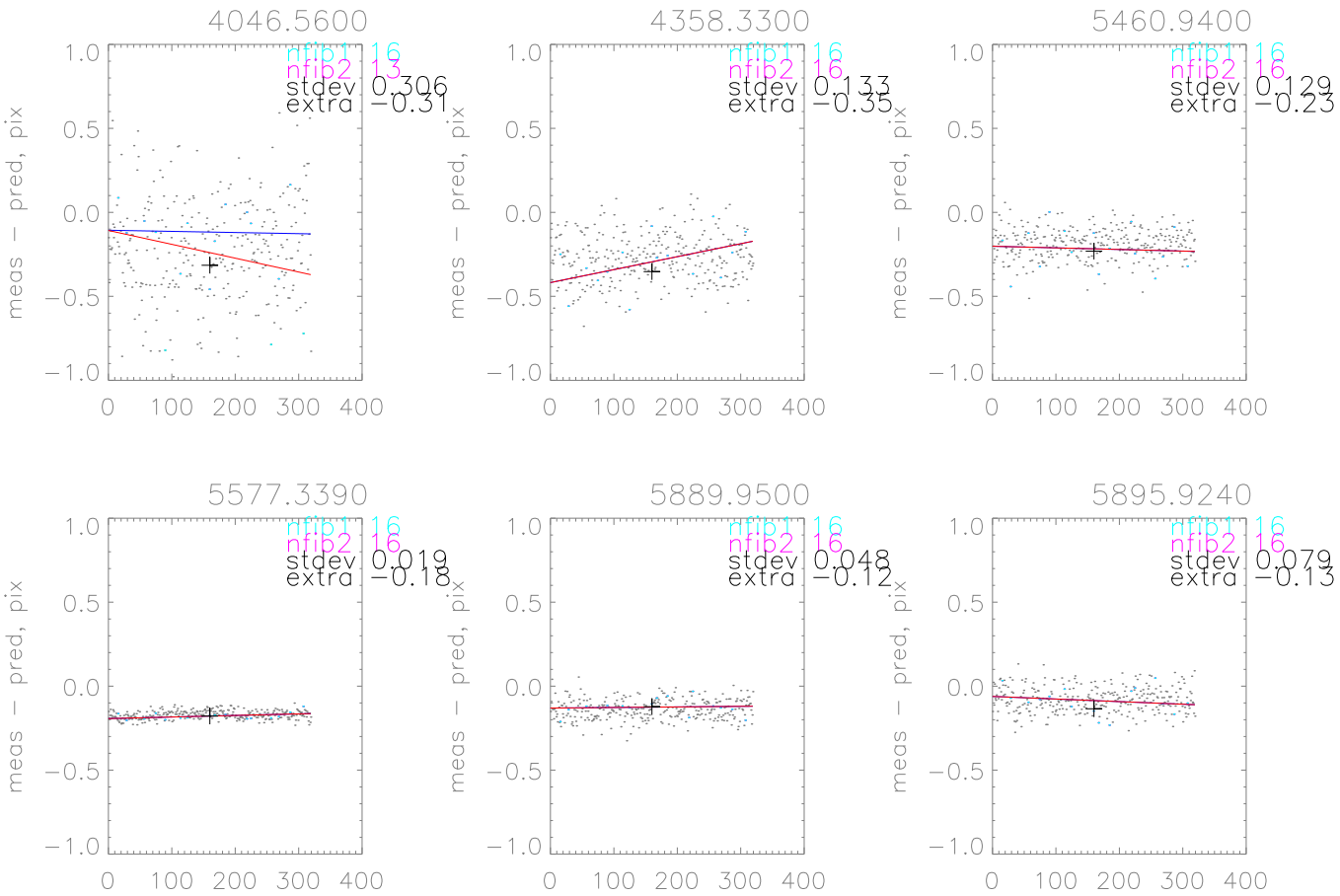

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

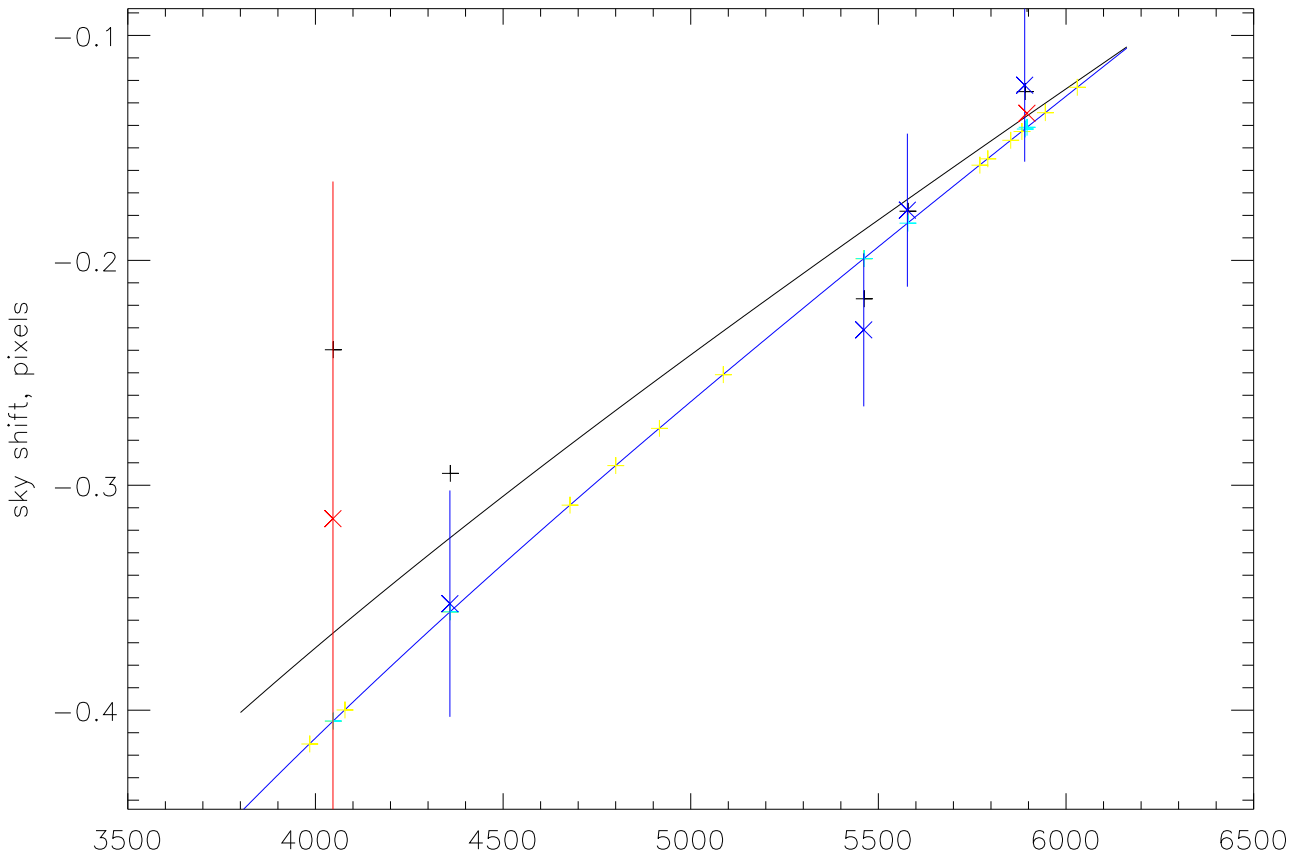

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

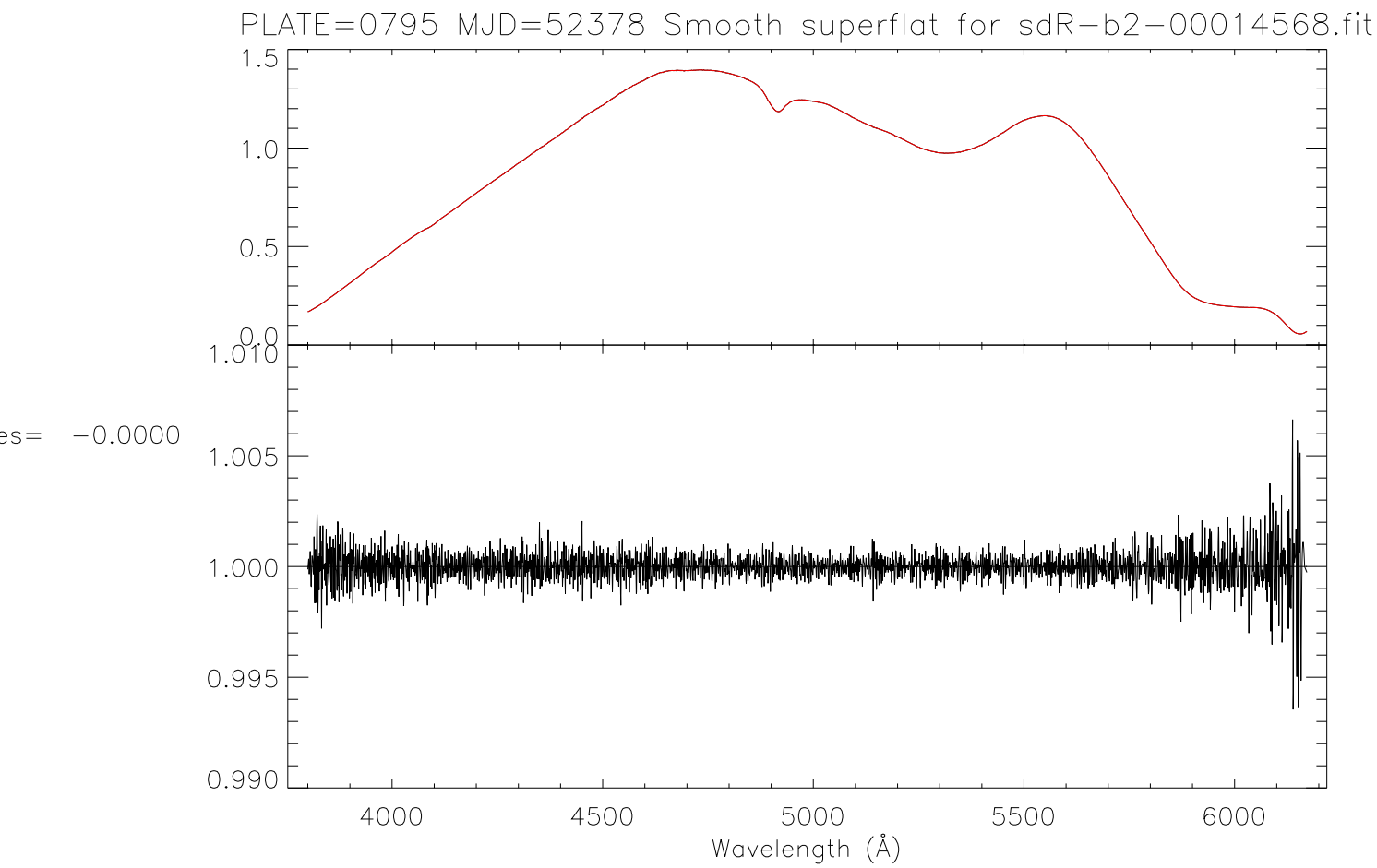

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

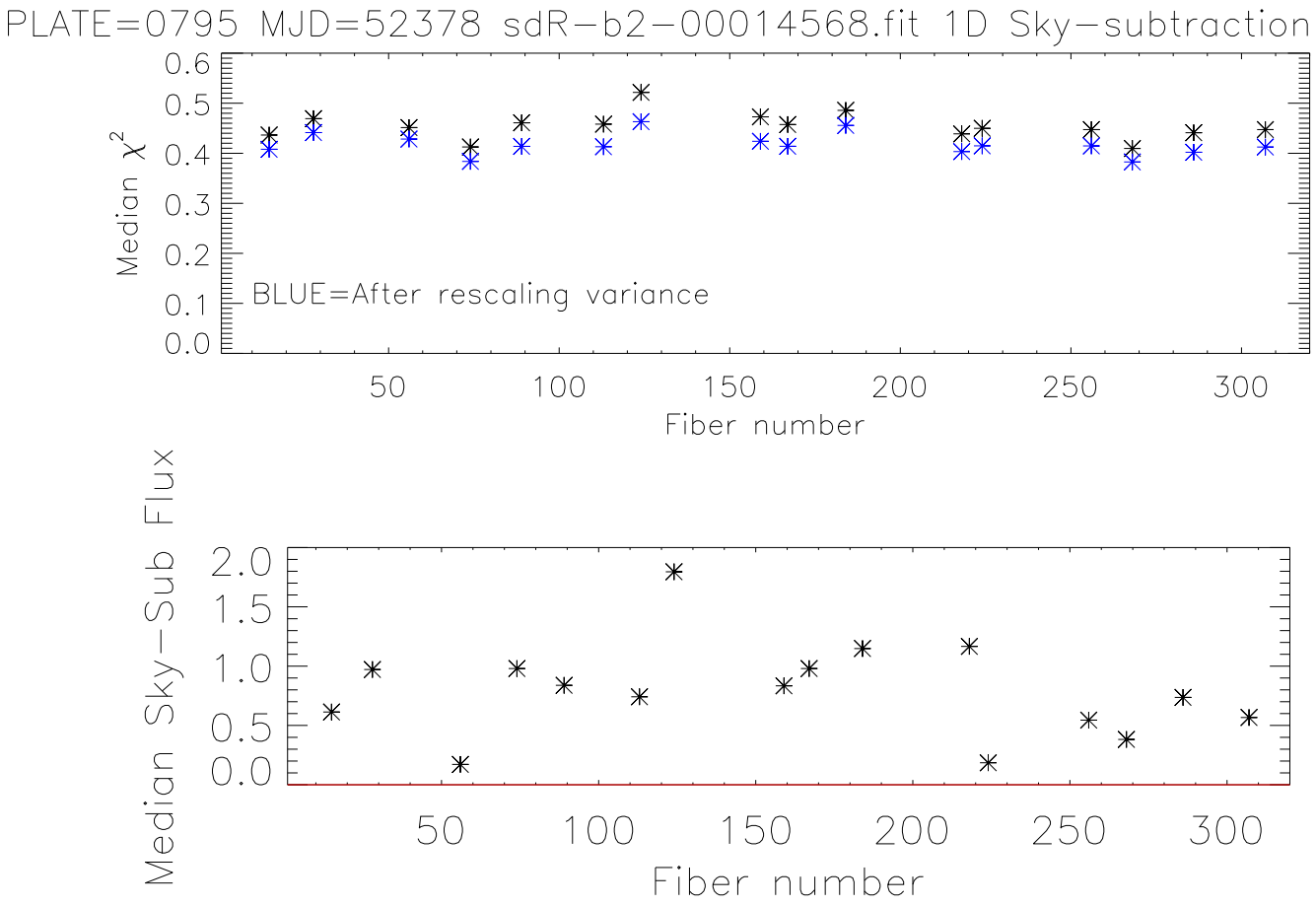

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

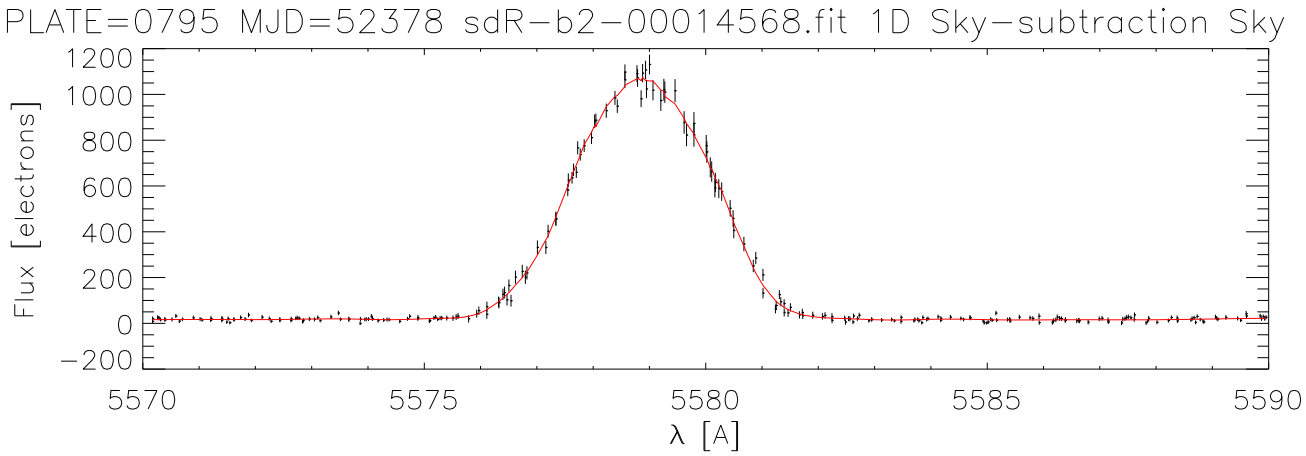

4046.5600
nfib1 16
nfib2 13
stdev 0.306
extra −0.31
4358.3300
nfib1 16
nfib2 16
stdev 0.133
extra −0.35
5460.9400
nfib1 16
nfib2 16
stdev 0.129
extra −0.23
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra −0.18
5889.9500
nfib1 16
nfib2 16
stdev 0.048
extra −0.12
5895.9240
nfib1 16
nfib2 16
stdev 0.079
extra −0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

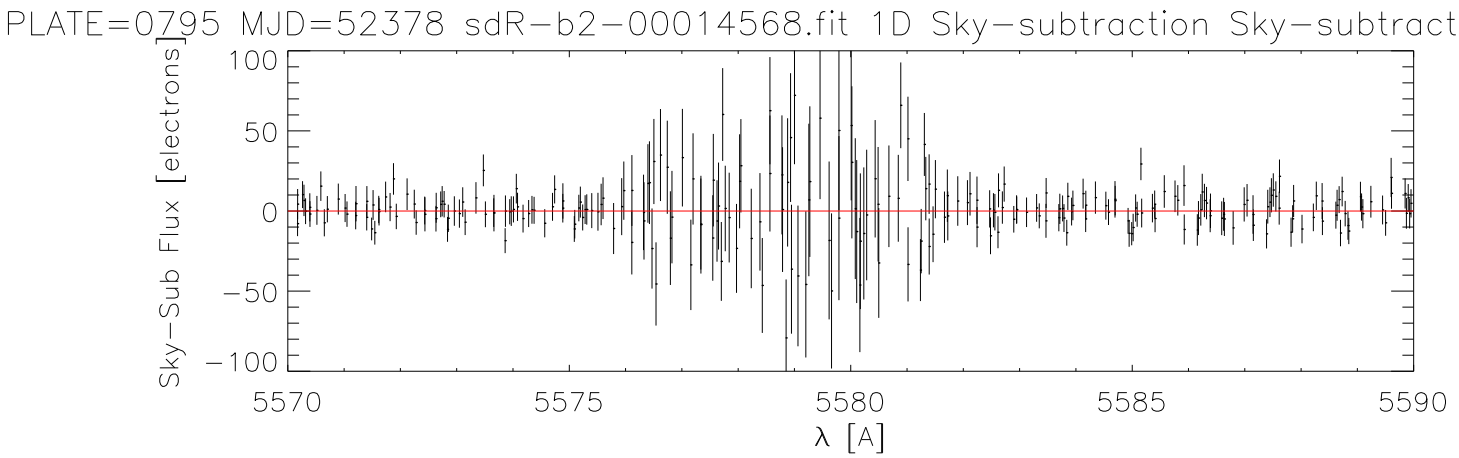

−0.1
−0.2
−0.3
−0.4
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

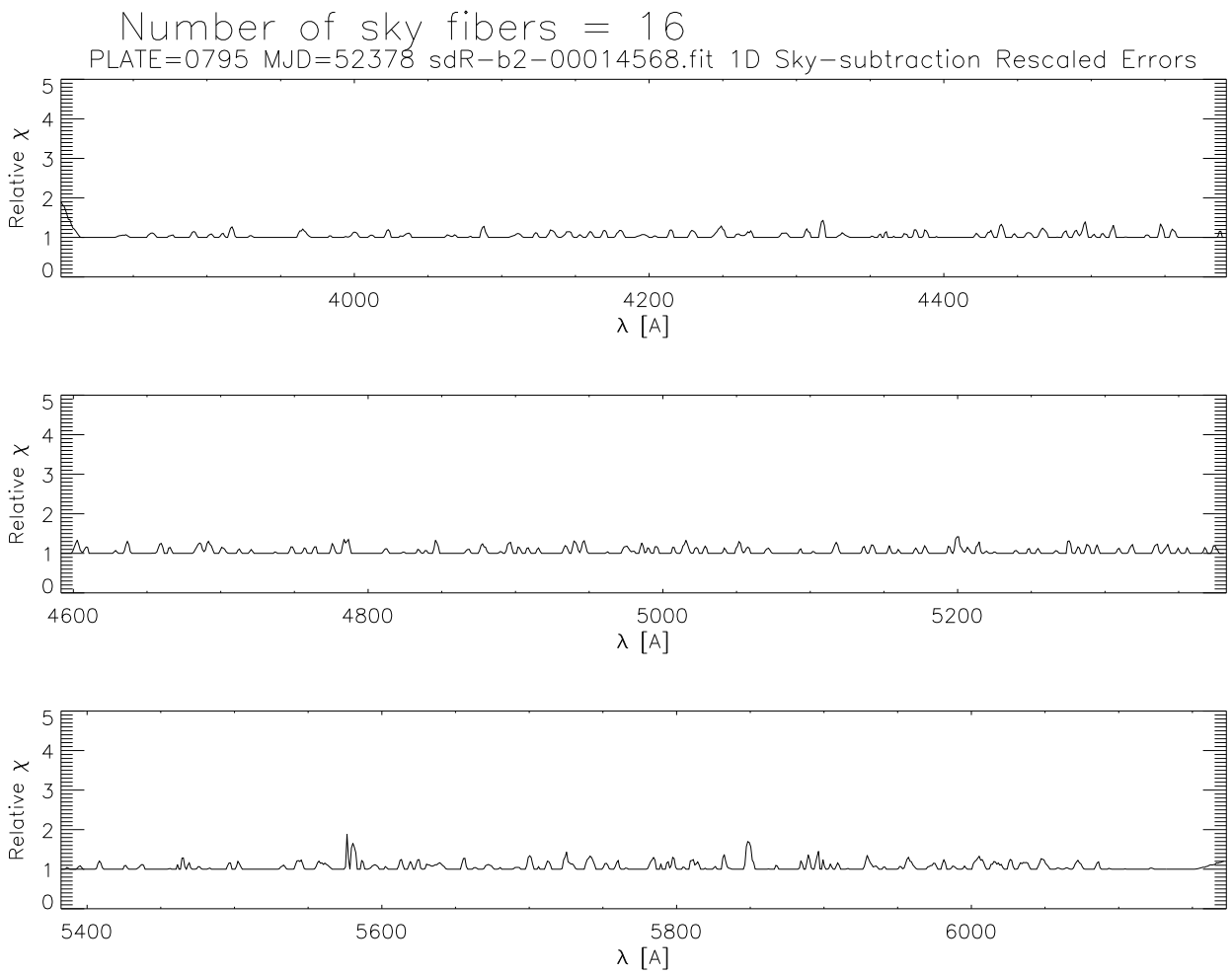

PLATE=0795 MJD=52378 Smooth superflat for sdR-b2-00014568.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

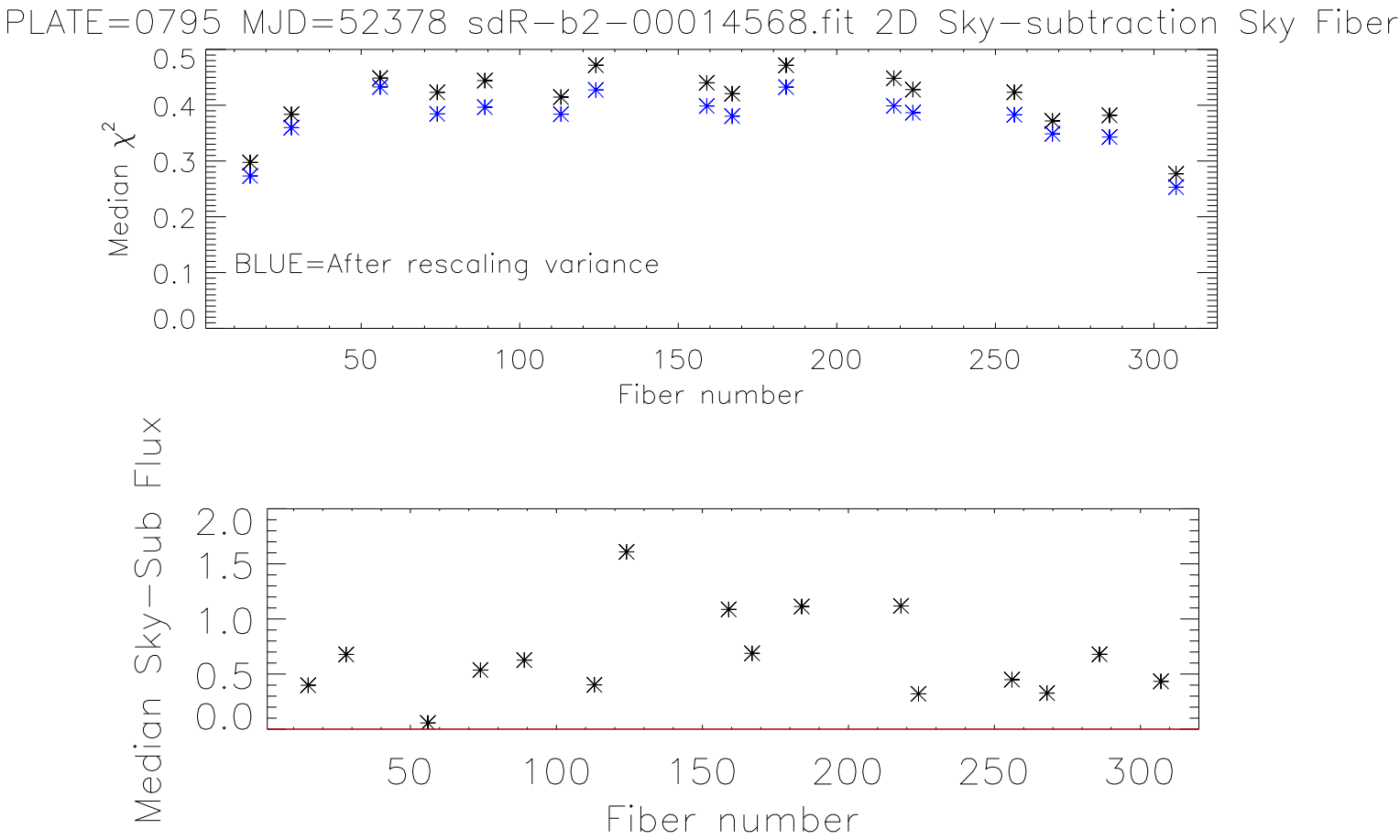
es= −0.0000

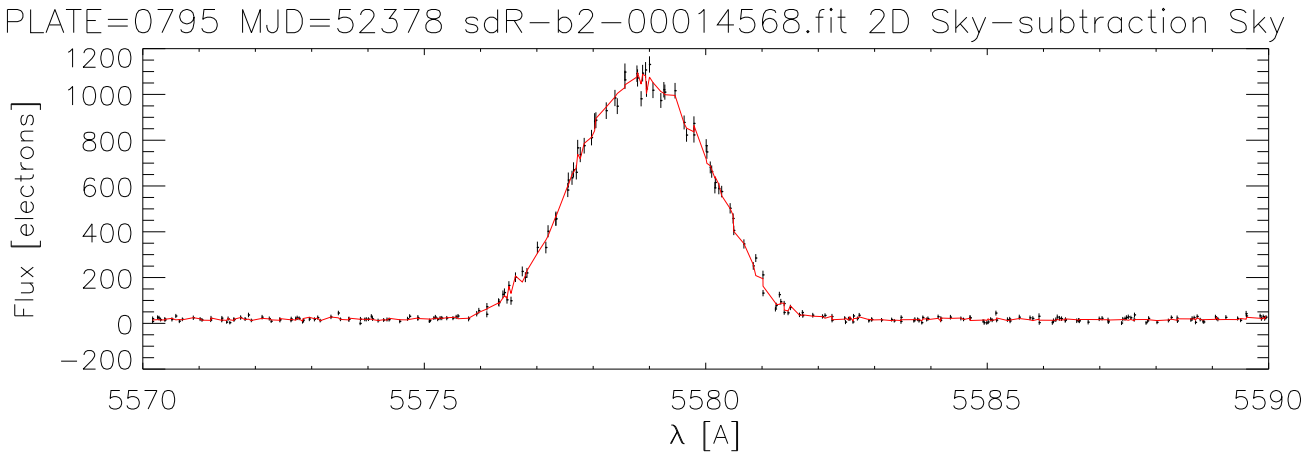

PLATE=0795 MJD=52378 sdR-b2-00014568.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
0.0
0.5
1.0
1.5
2.0
50
100
150
200
250
300
Fiber number

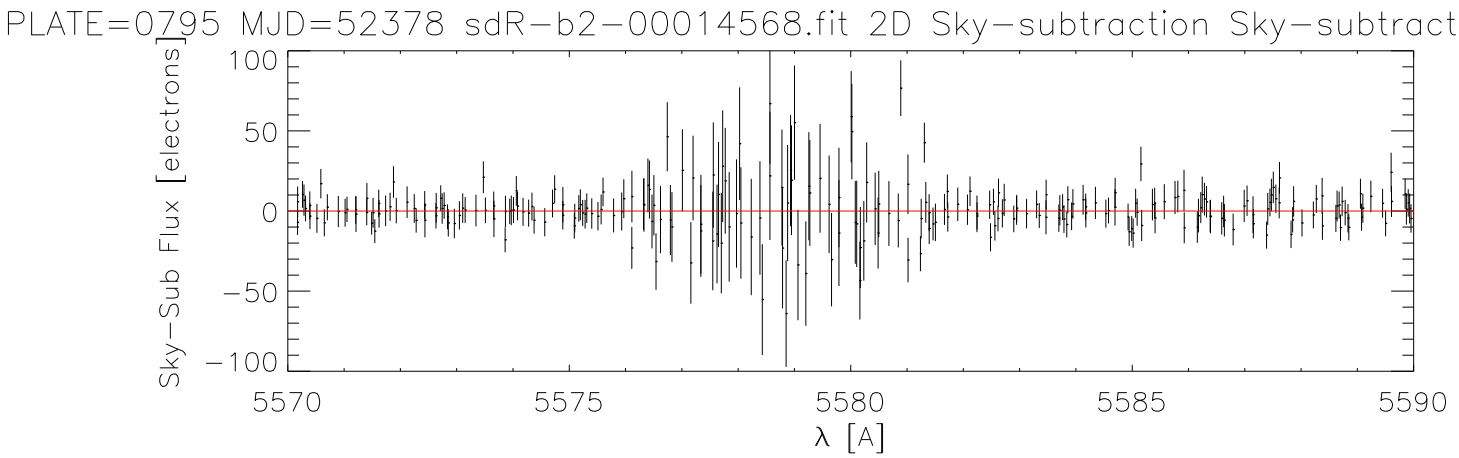

PLATE=0795 MJD=52378 sdR-b2-00014568.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

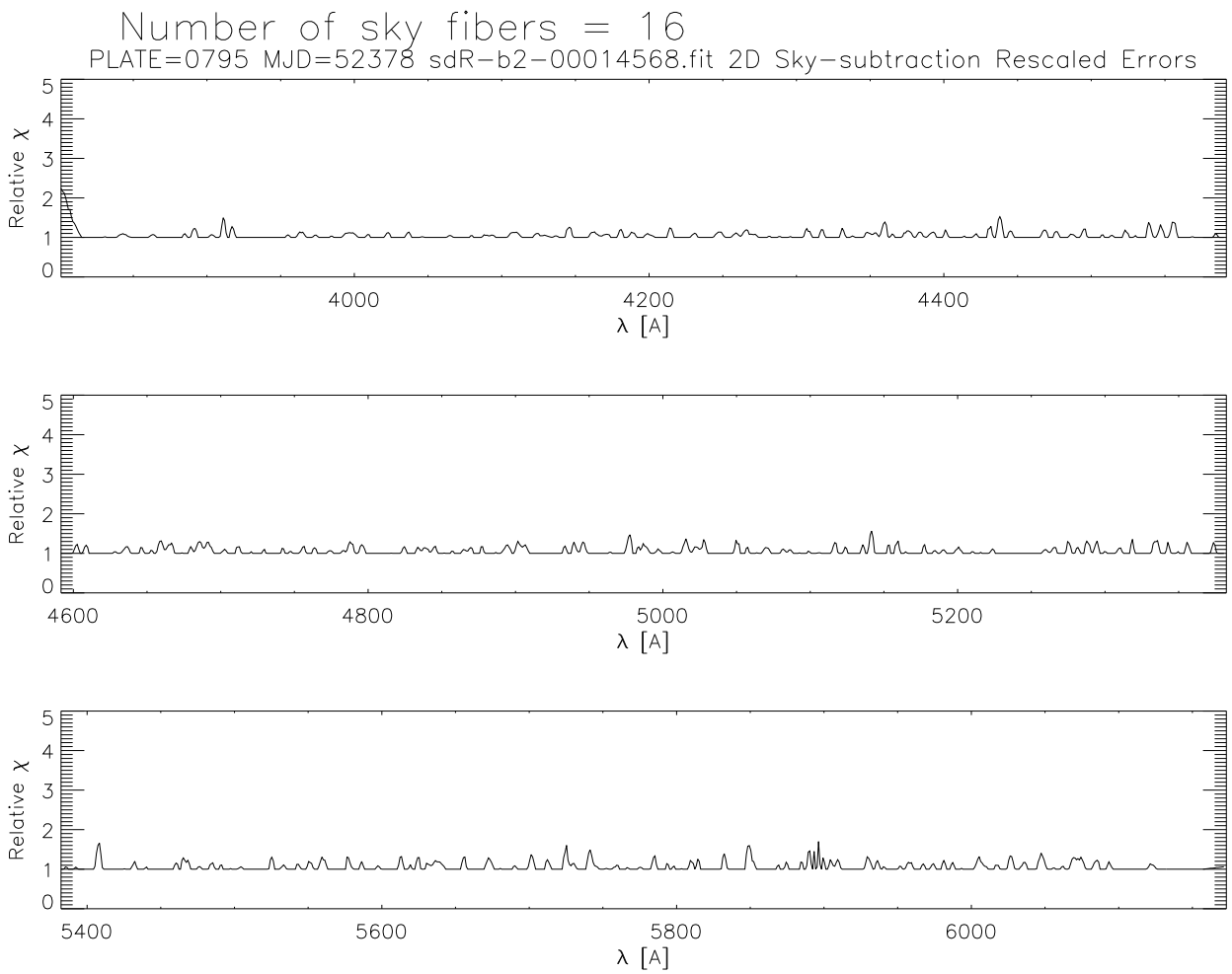

PLATE=0795 MJD=52378 sdR-b2-00014568.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

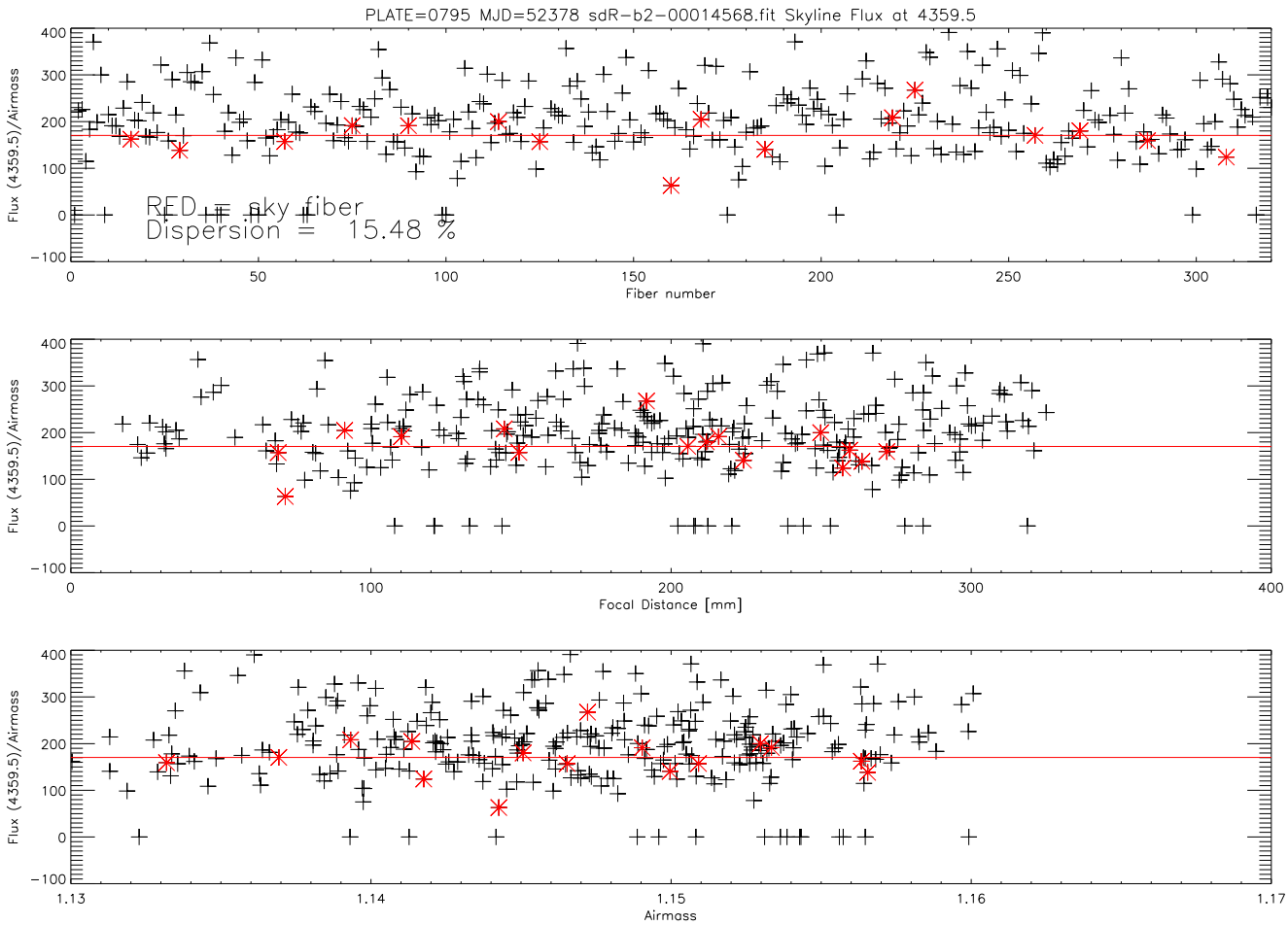

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014568.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

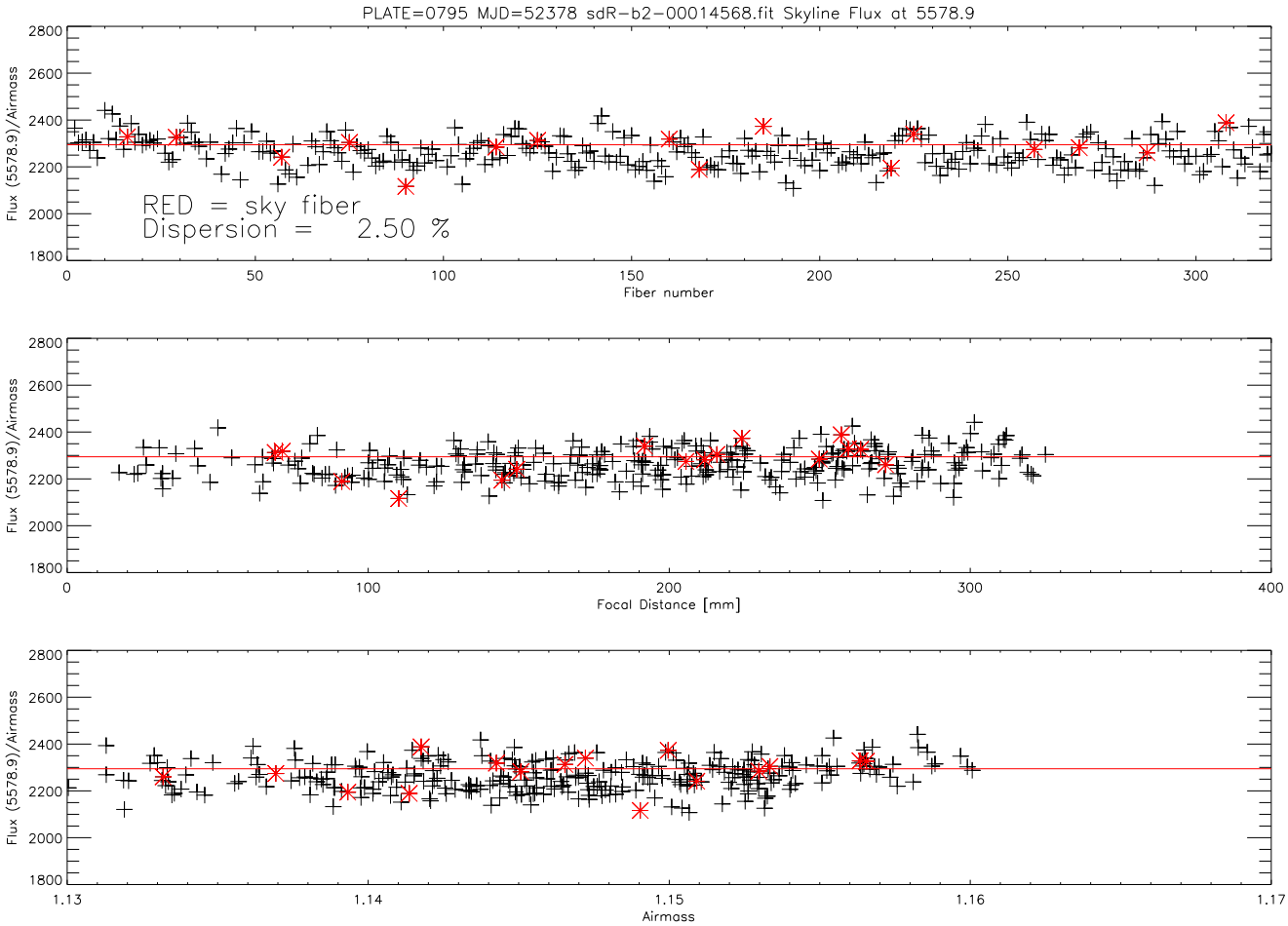

PLATE=0795 MJD=52378 sdR-b2-00014568.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

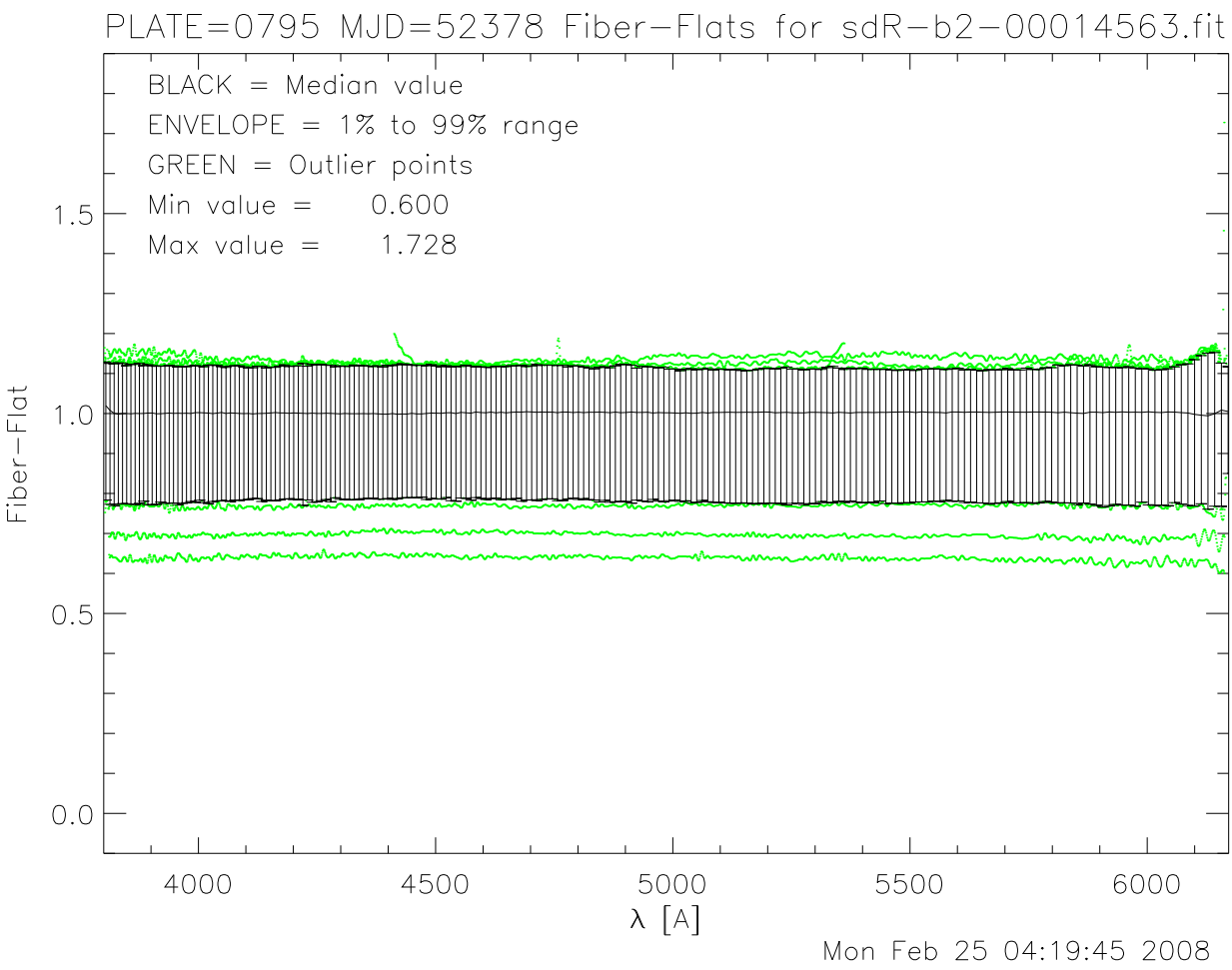

PLATE=0795 MJD=52378 sdR-b2-00014568.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

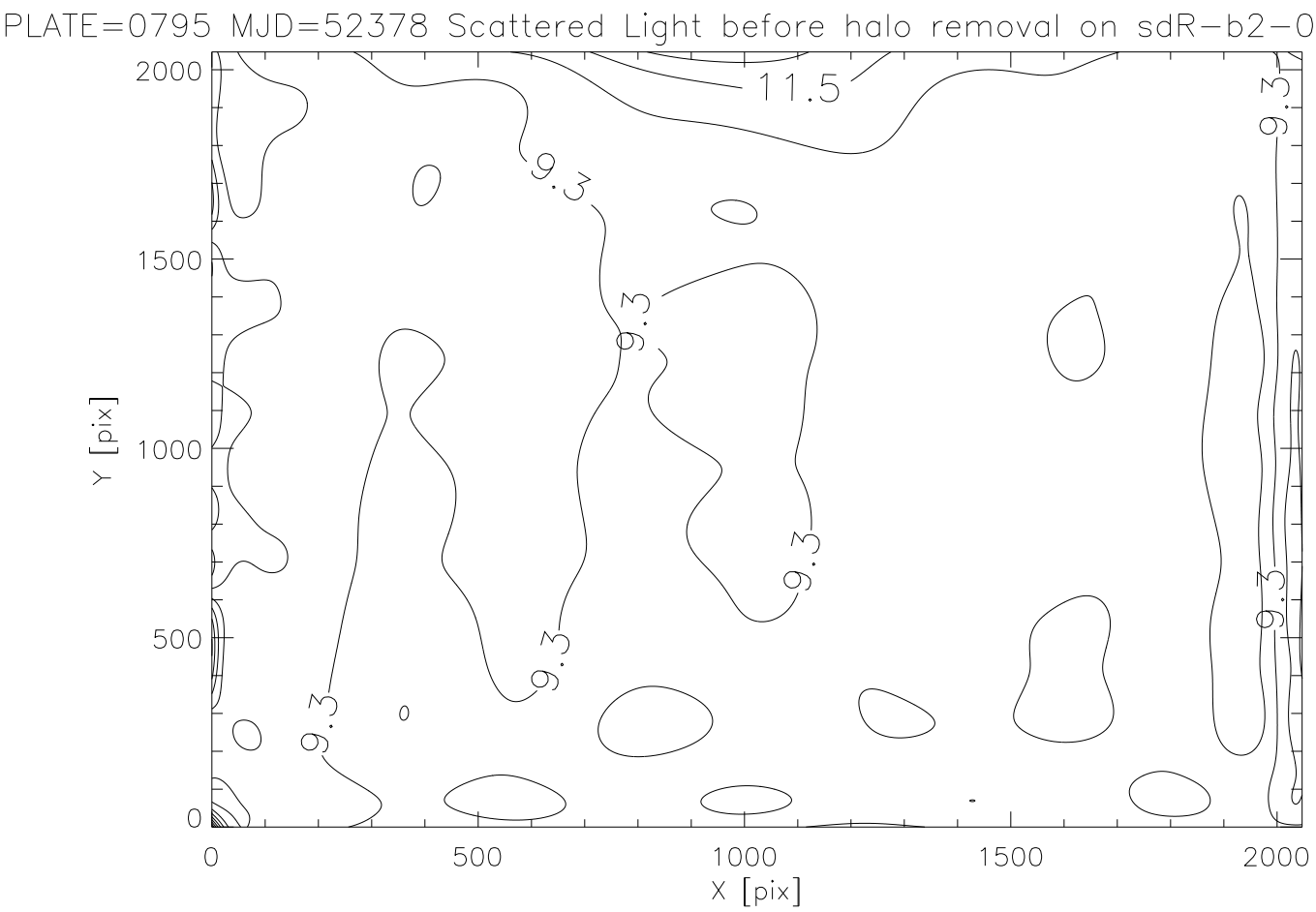

PLATE=0795 MJD=52378 sdR-b2-00014568.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

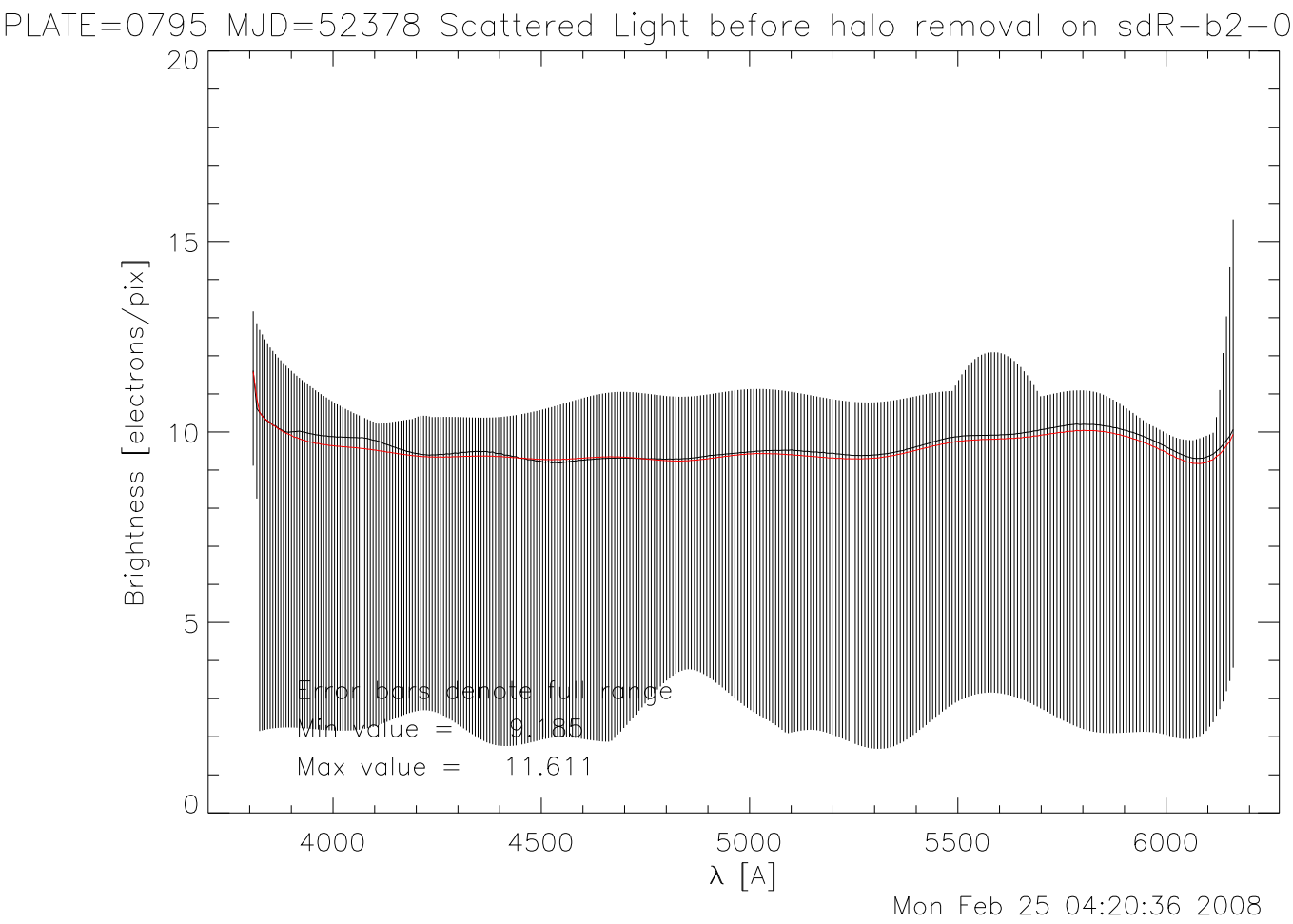

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014568.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

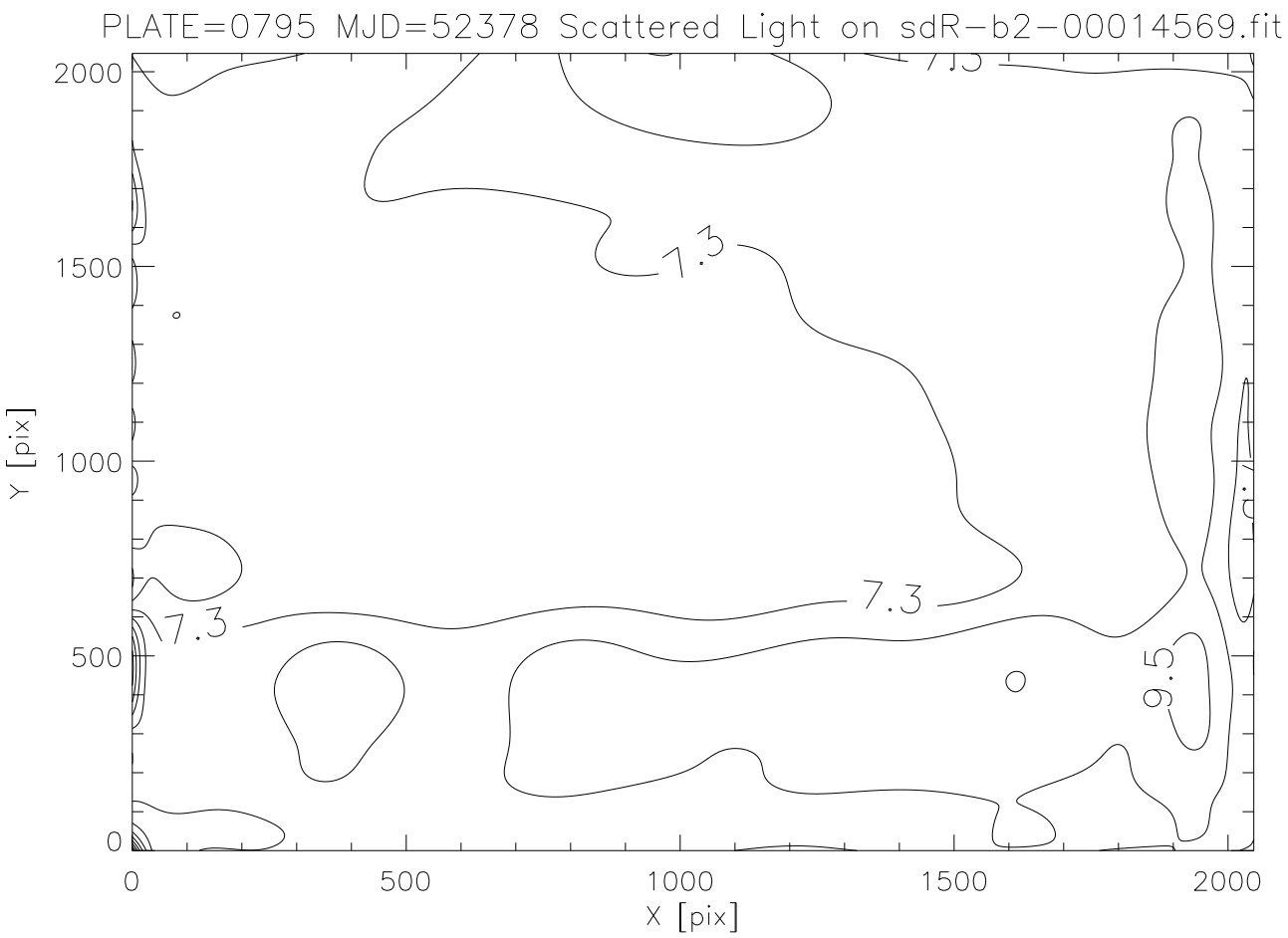

PLATE=0795 MJD=52378 sdR-b2-00014568.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 15.48 %
Flux (4359.5)/Airmass
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

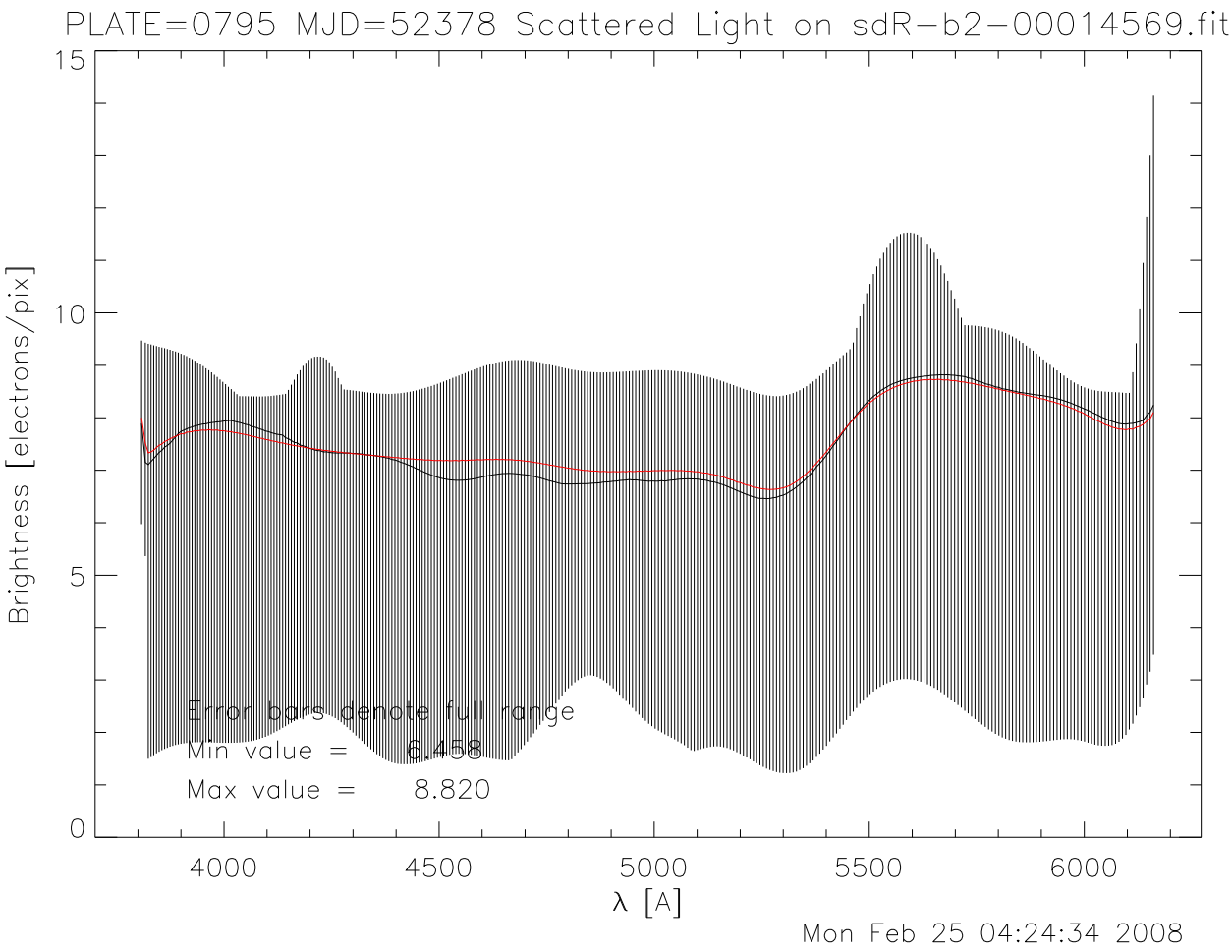

PLATE=0795 MJD=52378 sdR-b2-00014568.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.50 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

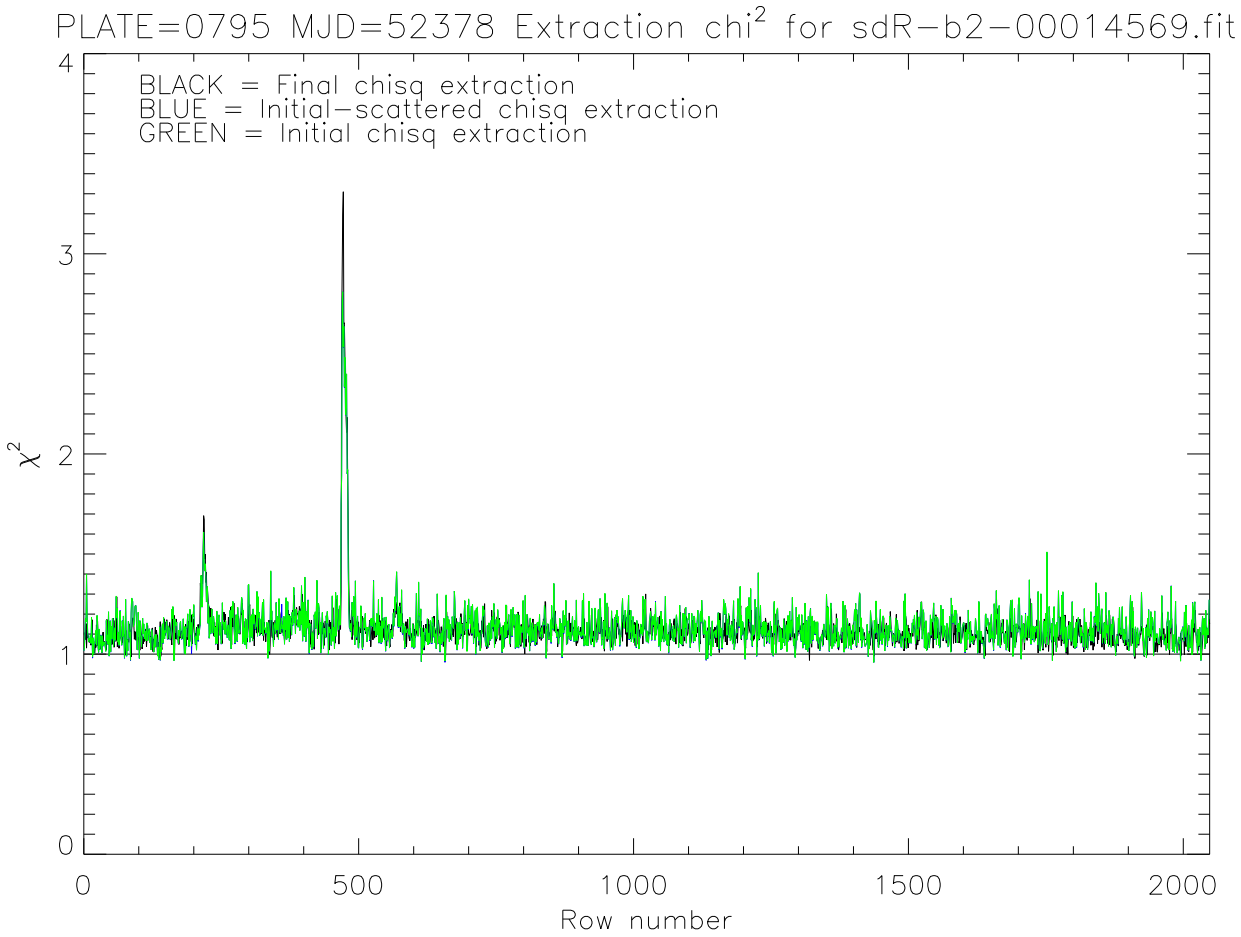

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.600
Max value = 1.728
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 04:19:45 2008

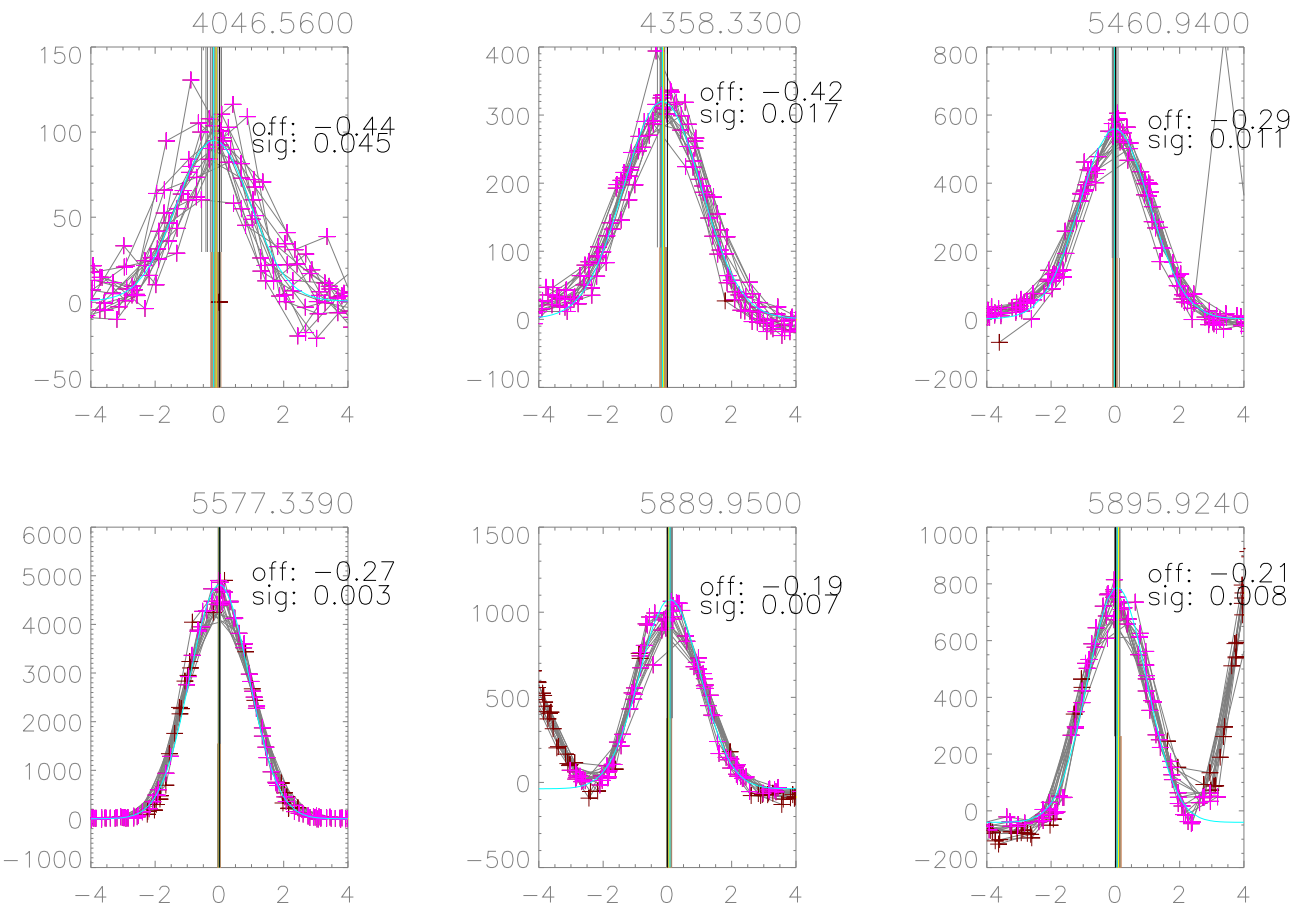

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014569.f
11.5
9.3
0
Y [pix]
X [pix]
0
500
1000
1500
2000

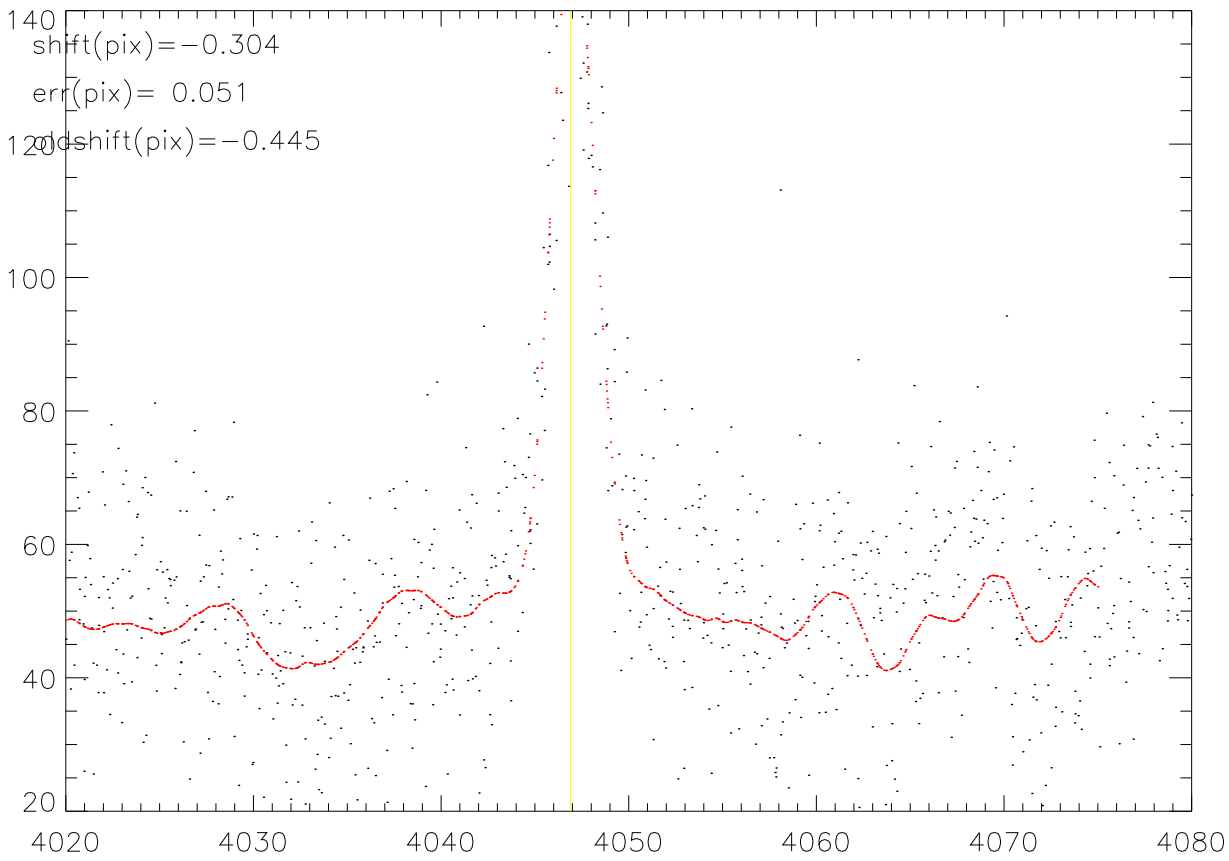

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014569.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.185
Max value = 11.611
Mon Feb 25 04:20:36 2008

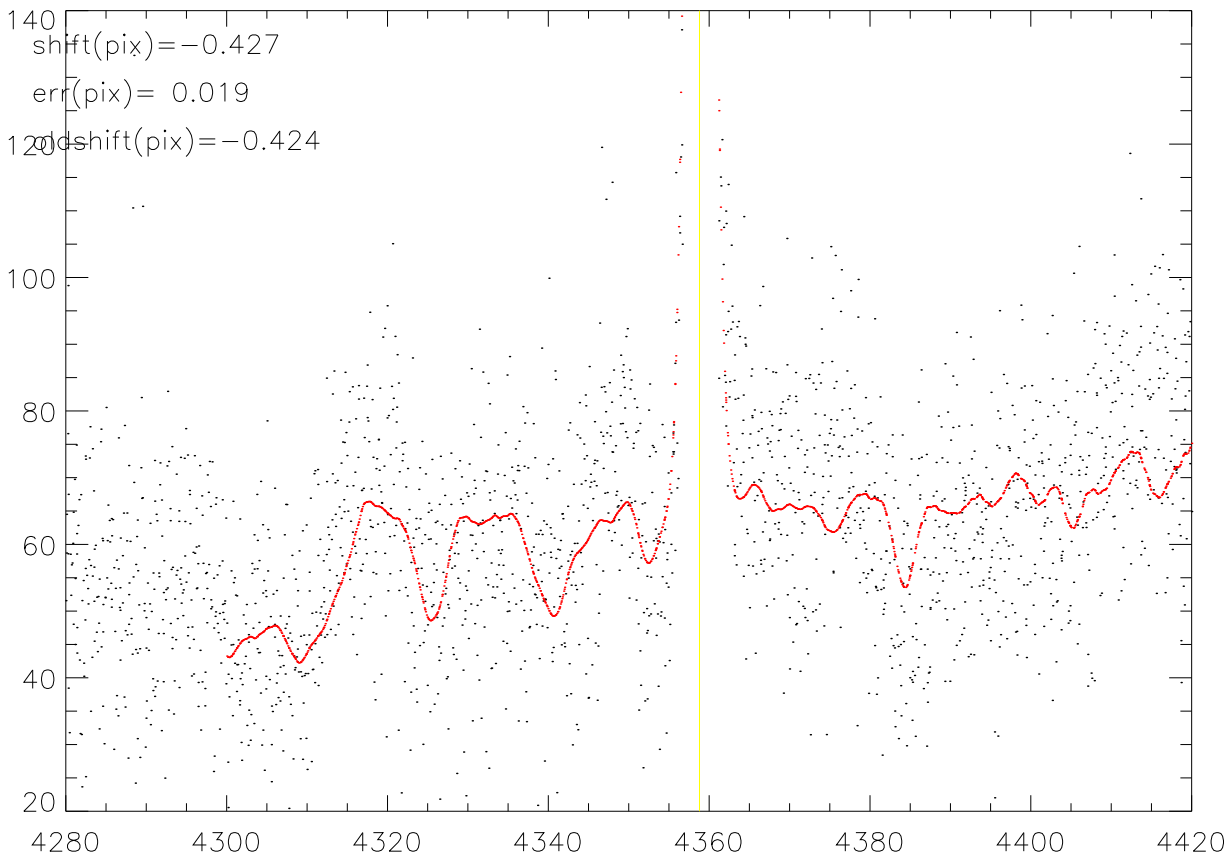

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014569.fit
7.3
7.3
7.3
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

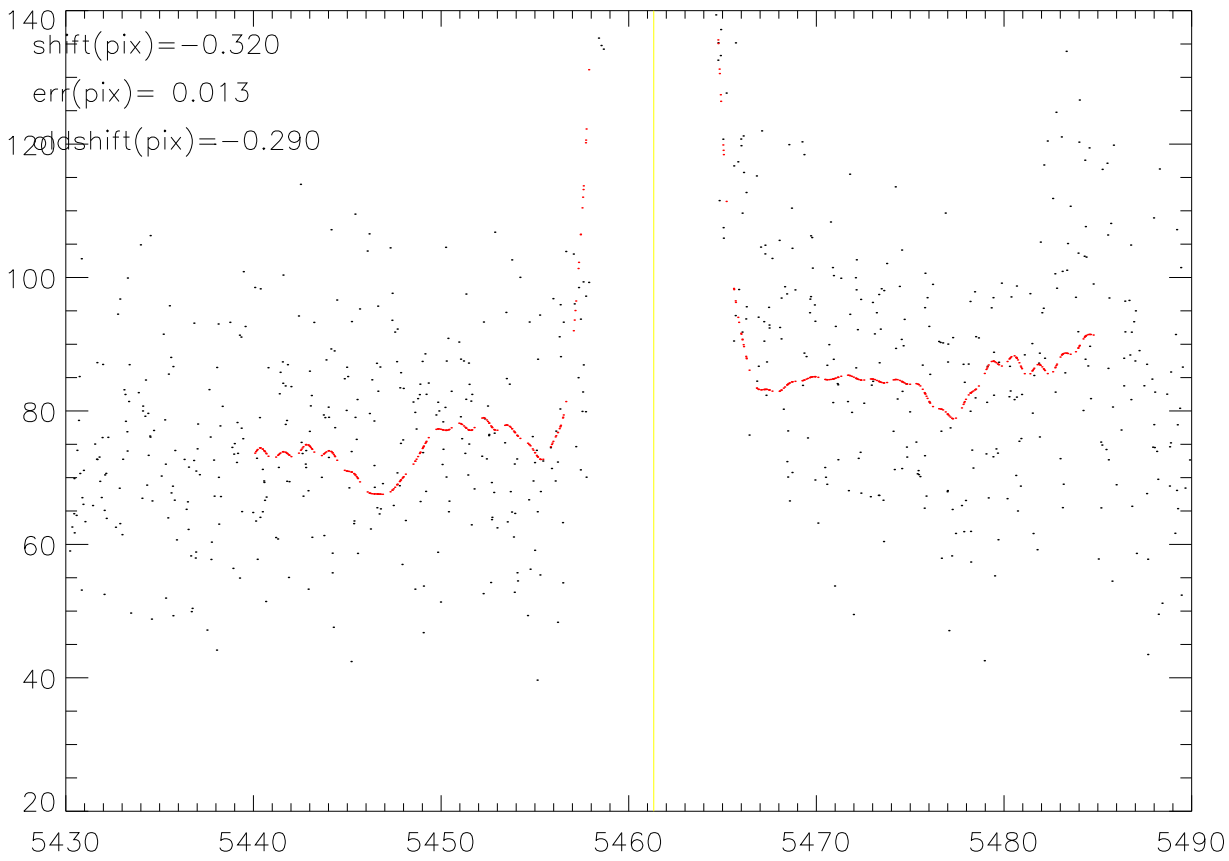

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014569.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.458
Max value = 8.820
Mon Feb 25 04:24:34 2008

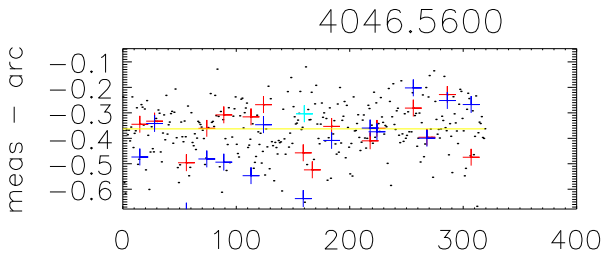

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−b2−00014569.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

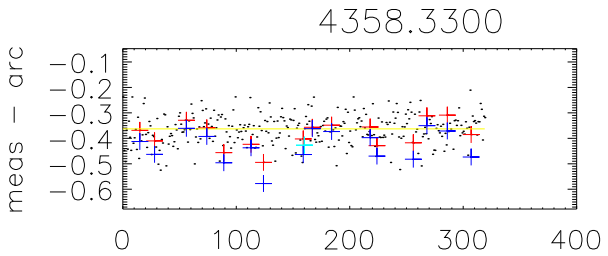

4046.5600
off: −0.44
sig: 0.045
4358.3300
off: −0.42
sig: 0.017
5460.9400
off: −0.29
sig: 0.011
5577.3390
off: −0.27
sig: 0.003
5889.9500
off: −0.19
sig: 0.007
5895.9240
off: −0.21
sig: 0.008

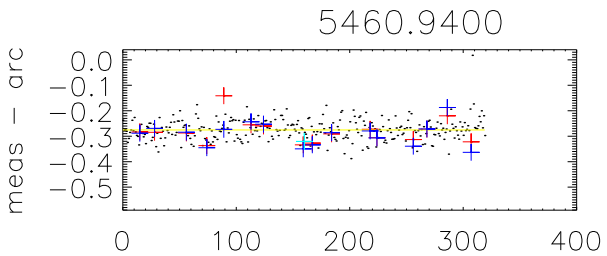

shift(pix)=−0.304
err(pix)= 0.051
oldshift(pix)=−0.445
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

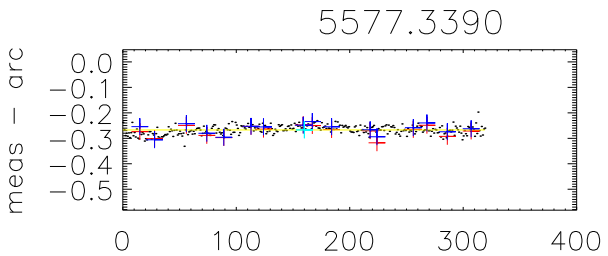

shift(pix)=−0.427
err(pix)= 0.019
oldshift(pix)=−0.424
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

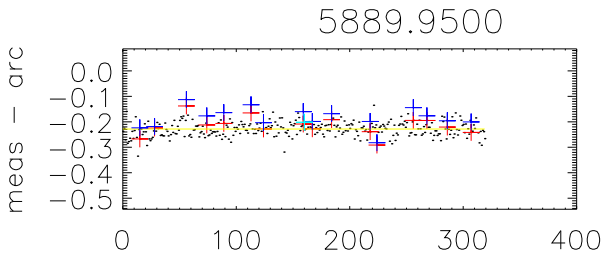

shift(pix)=−0.320
err(pix)= 0.013
oldshift(pix)=−0.290
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

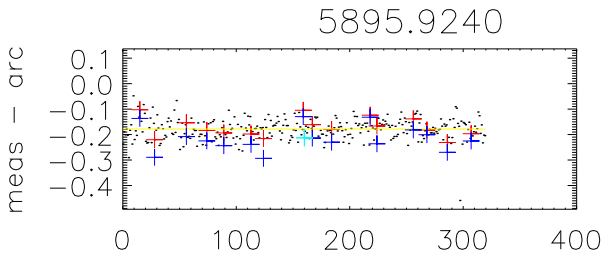

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

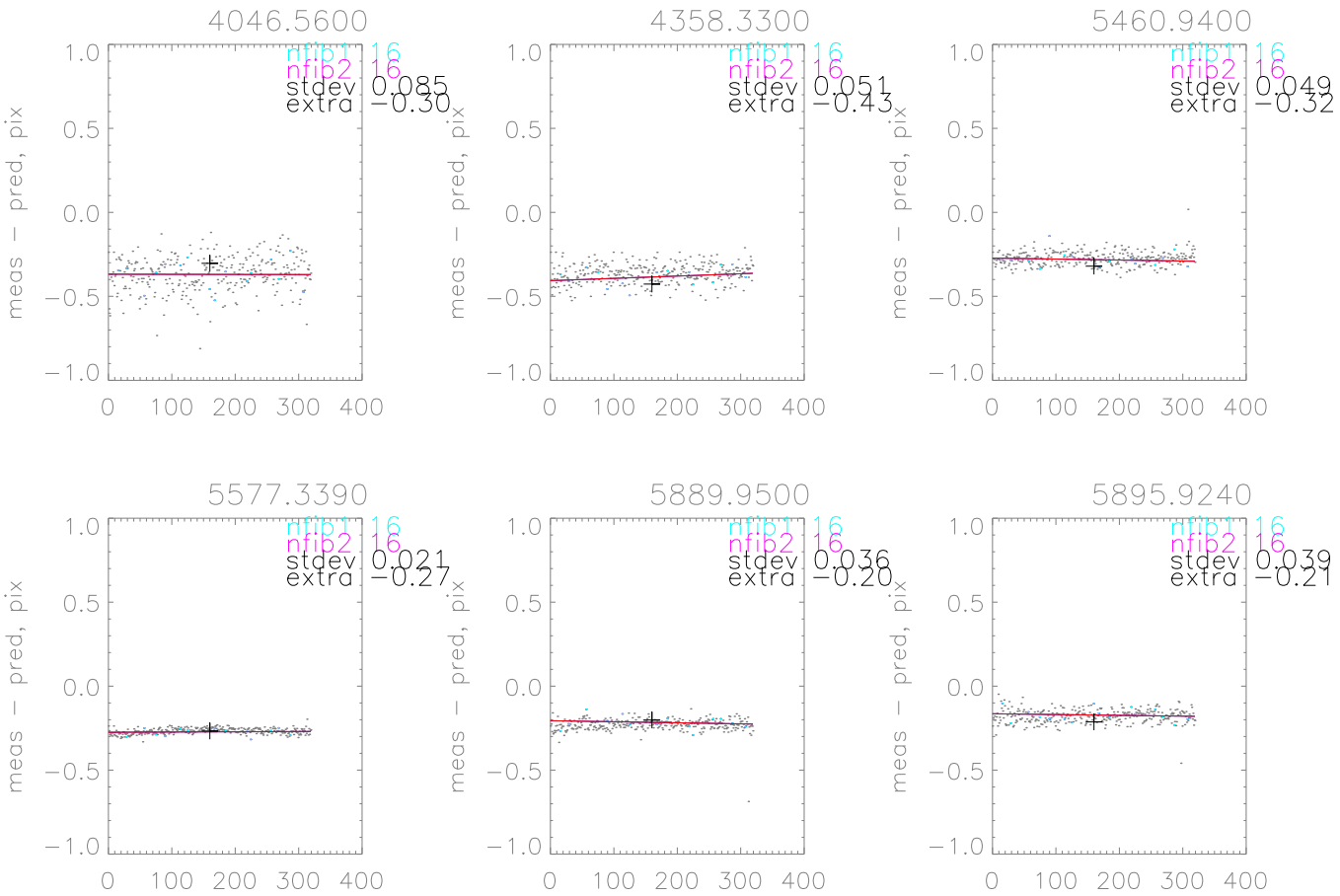

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

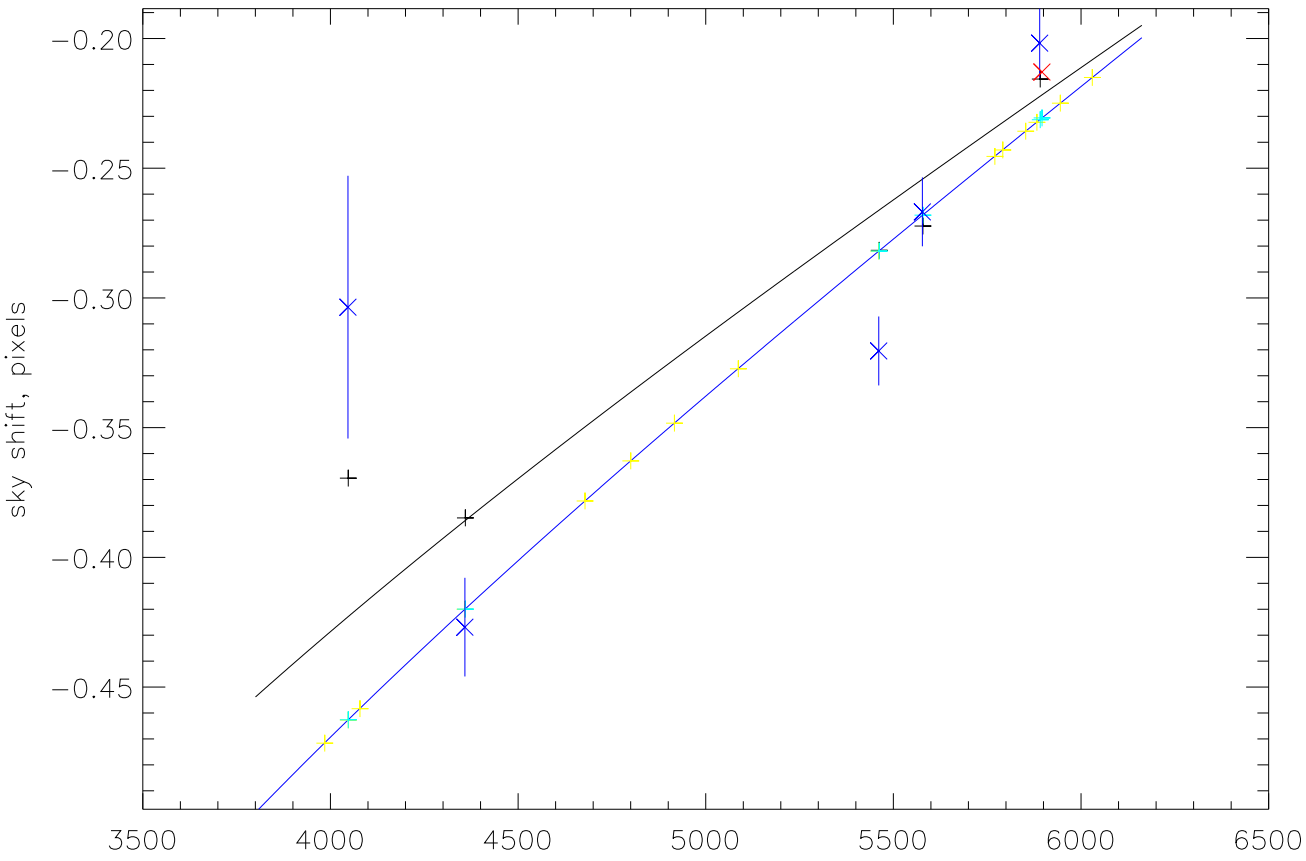

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

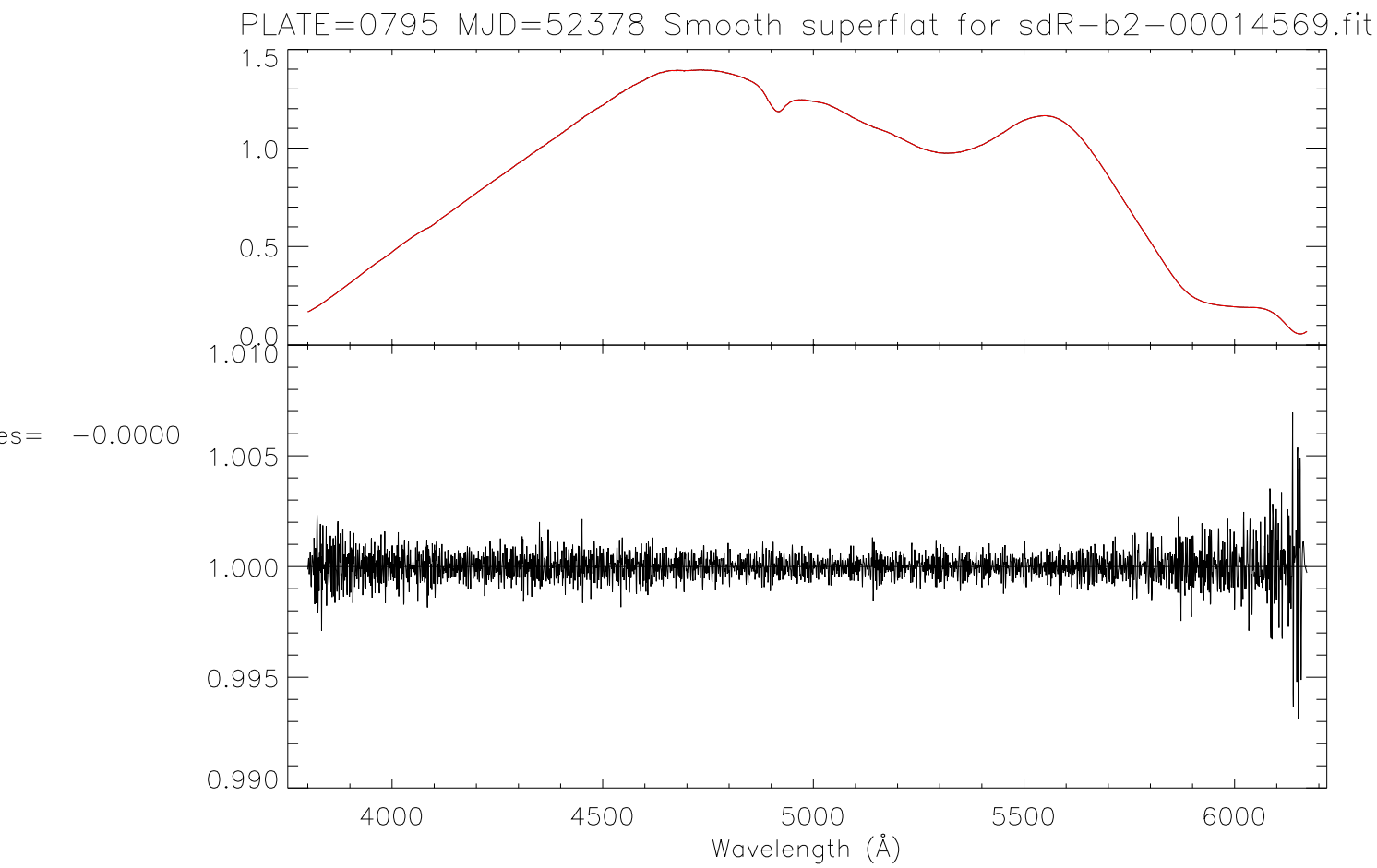

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

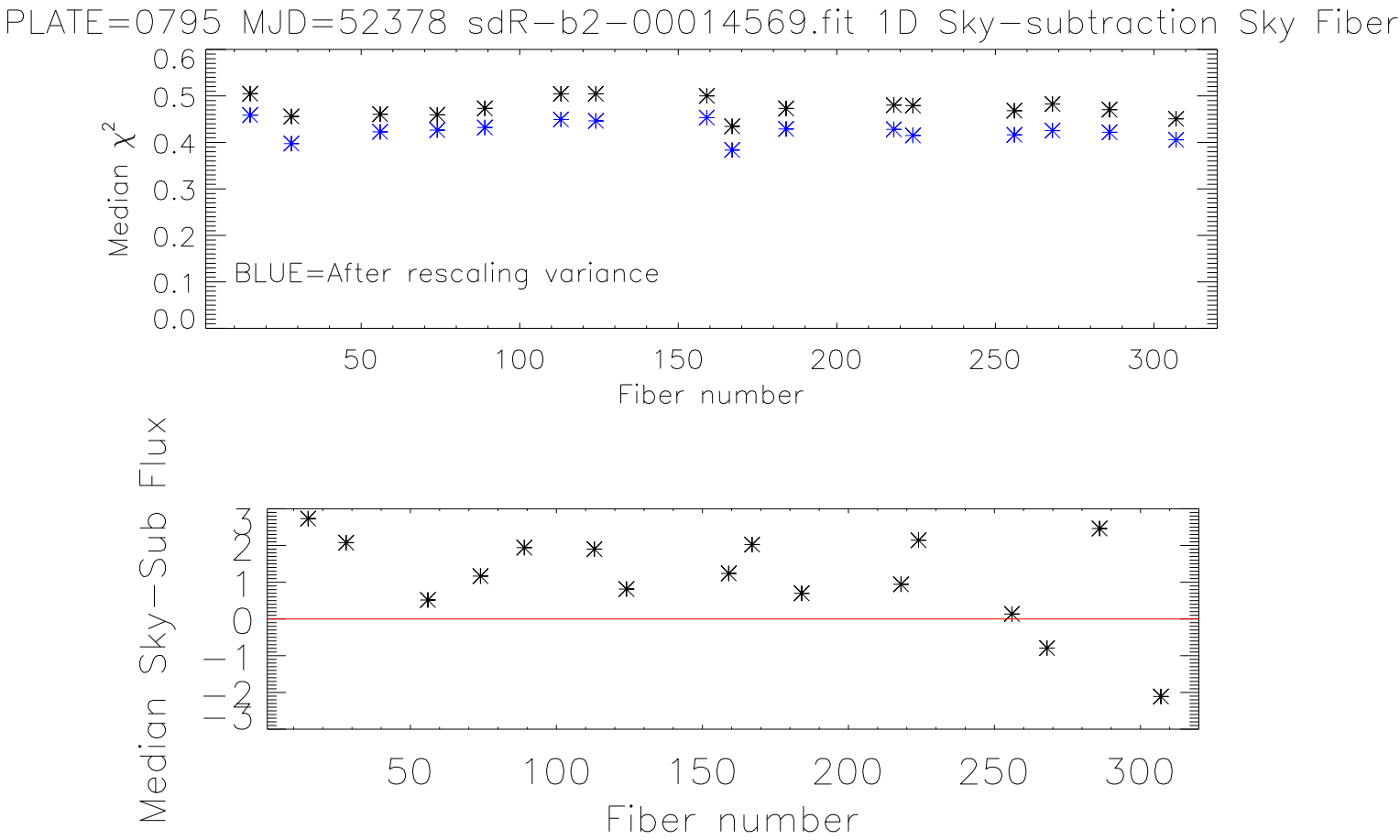

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

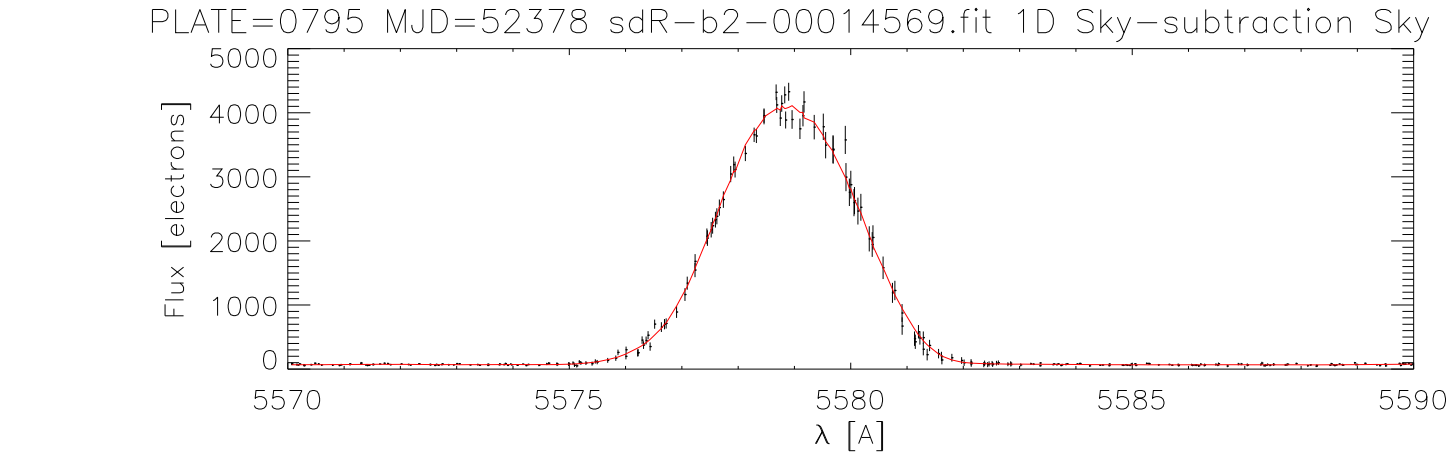

4046.5600
nfib1 16
nfib2 16
stdev 0.085
extra −0.30
4358.3300
nfib1 16
nfib2 16
stdev 0.051
extra −0.43
5460.9400
nfib1 16
nfib2 16
stdev 0.049
extra −0.32
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra −0.27
5889.9500
nfib1 16
nfib2 16
stdev 0.036
extra −0.20
5895.9240
nfib1 16
nfib2 16
stdev 0.039
extra −0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

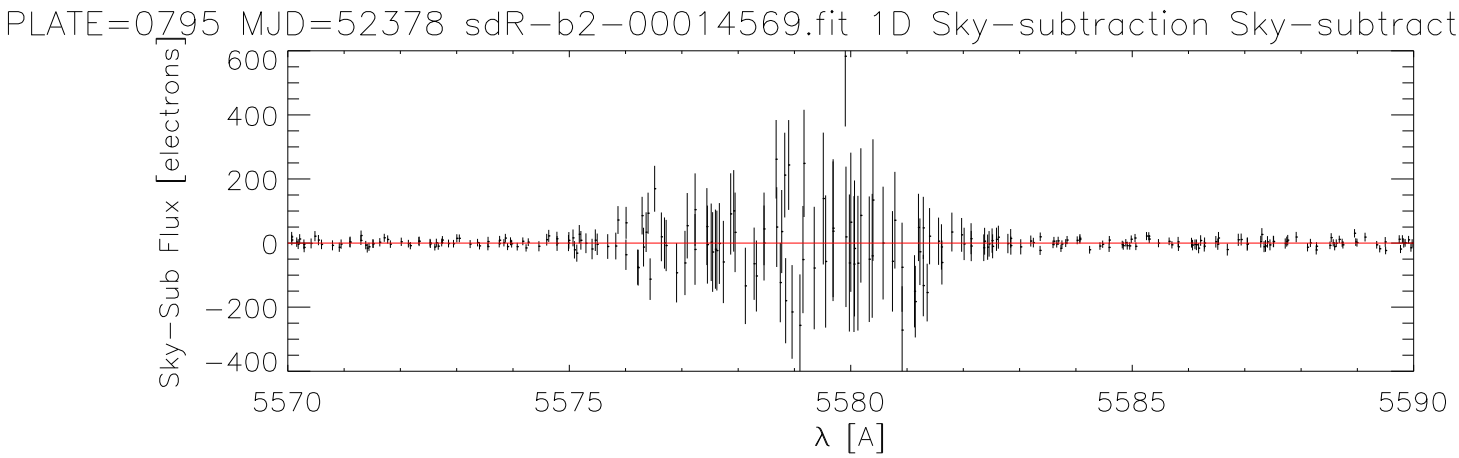

−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

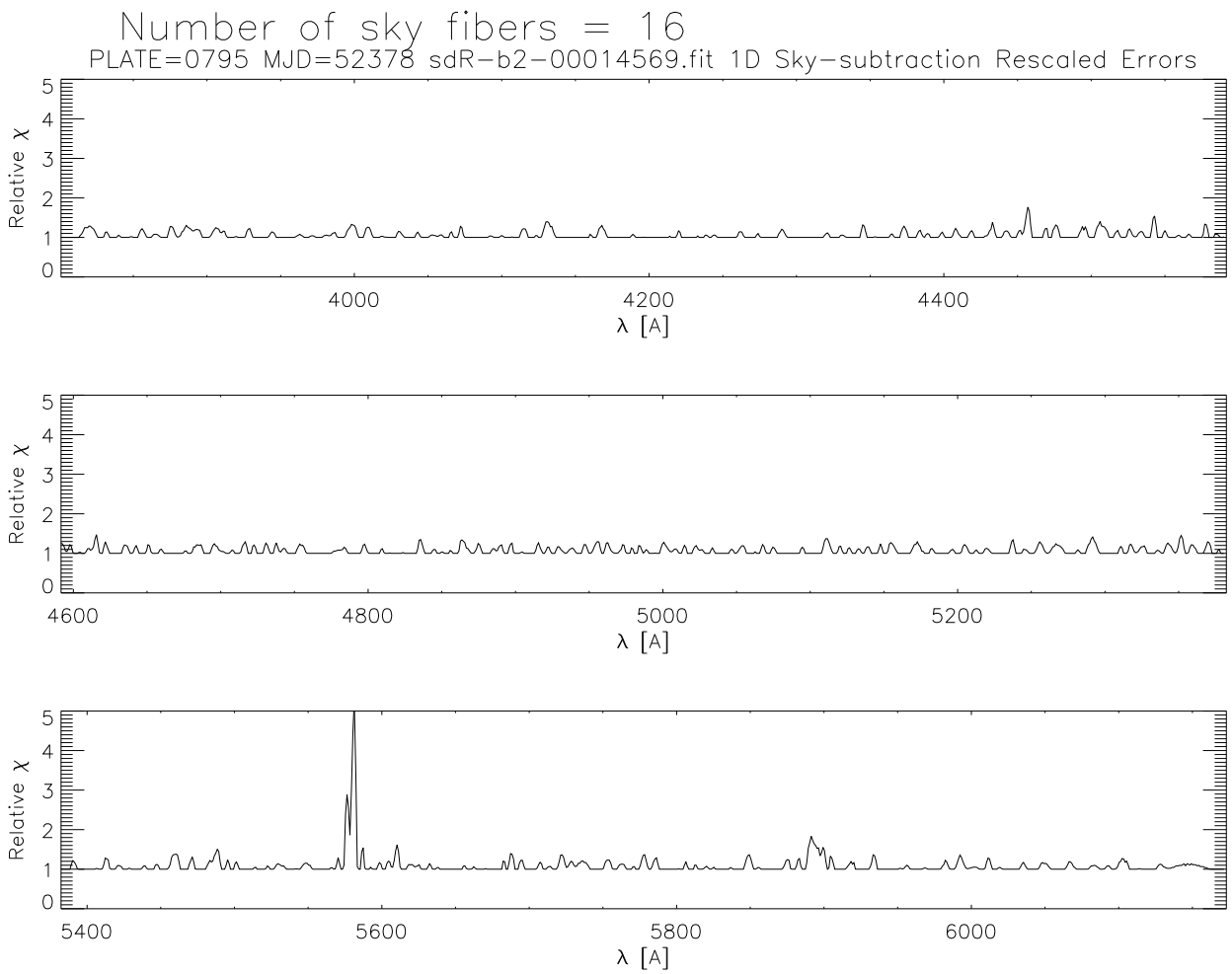

PLATE=0795 MJD=52378 Smooth superflat for sdR-b2-00014569.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

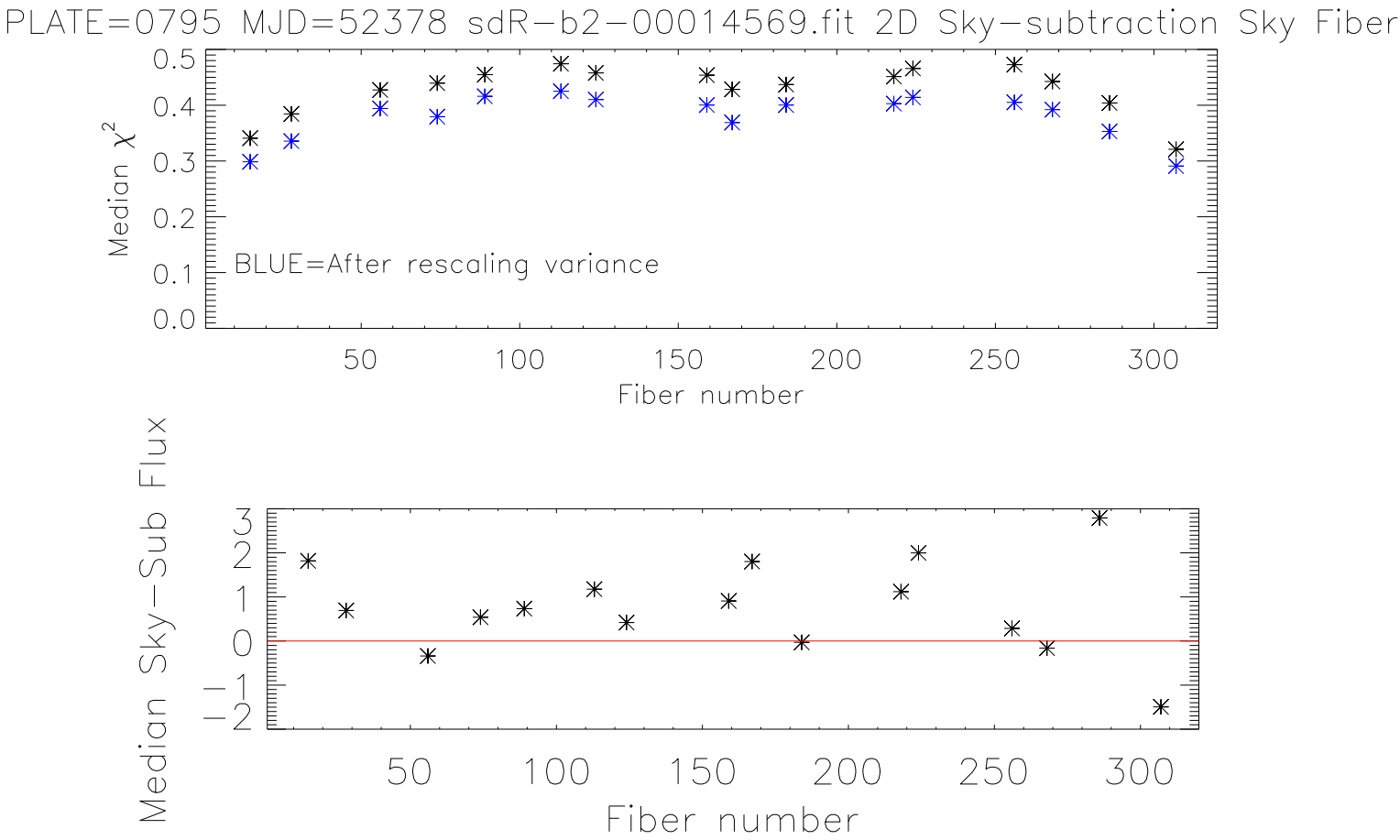
es= −0.0000

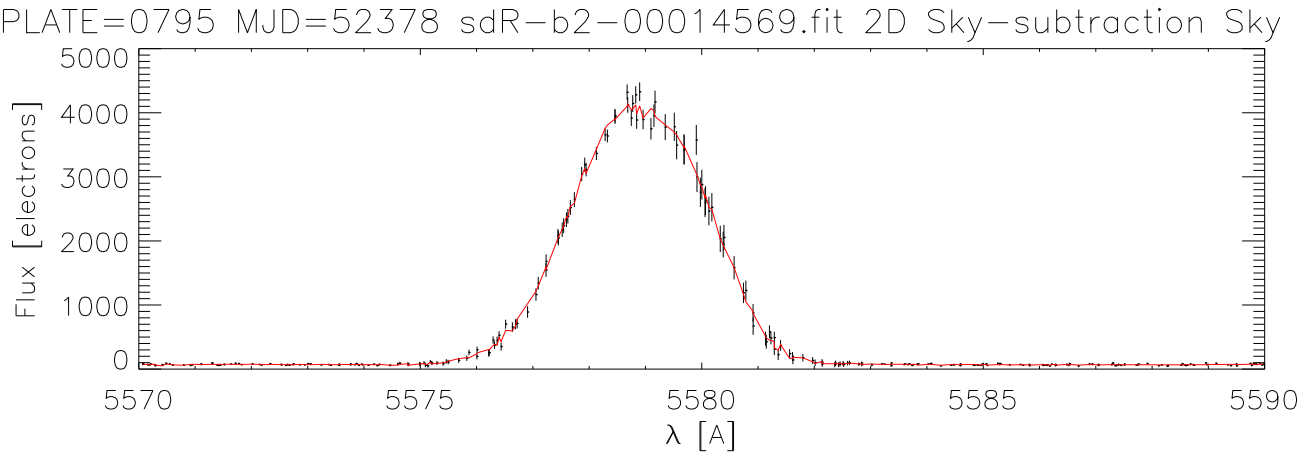

PLATE=0795 MJD=52378 sdR-b2-00014569.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

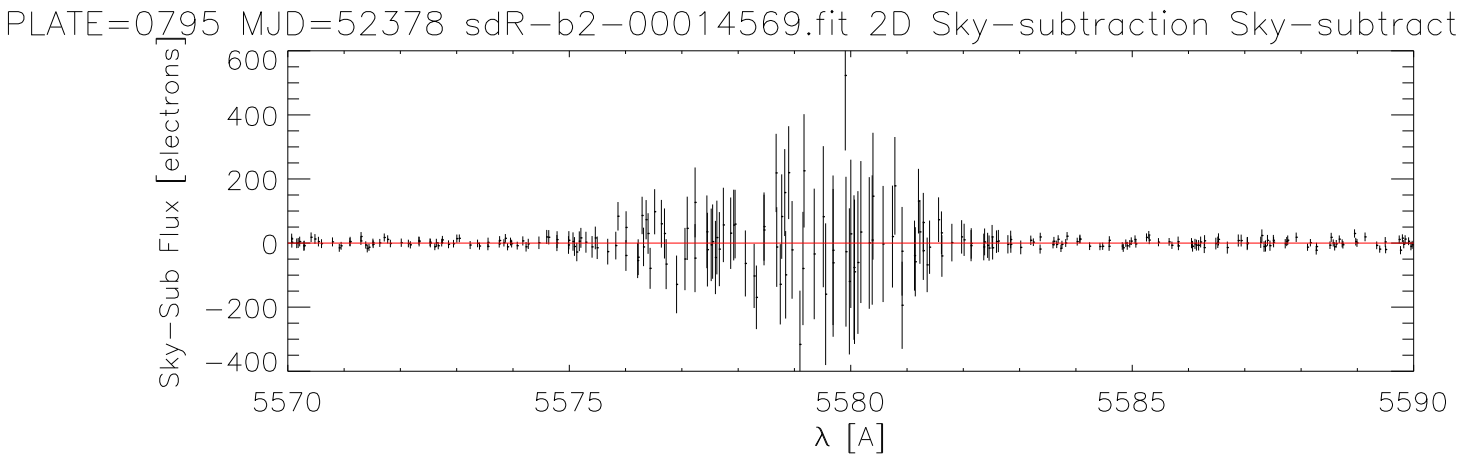

PLATE=0795 MJD=52378 sdR-b2-00014569.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

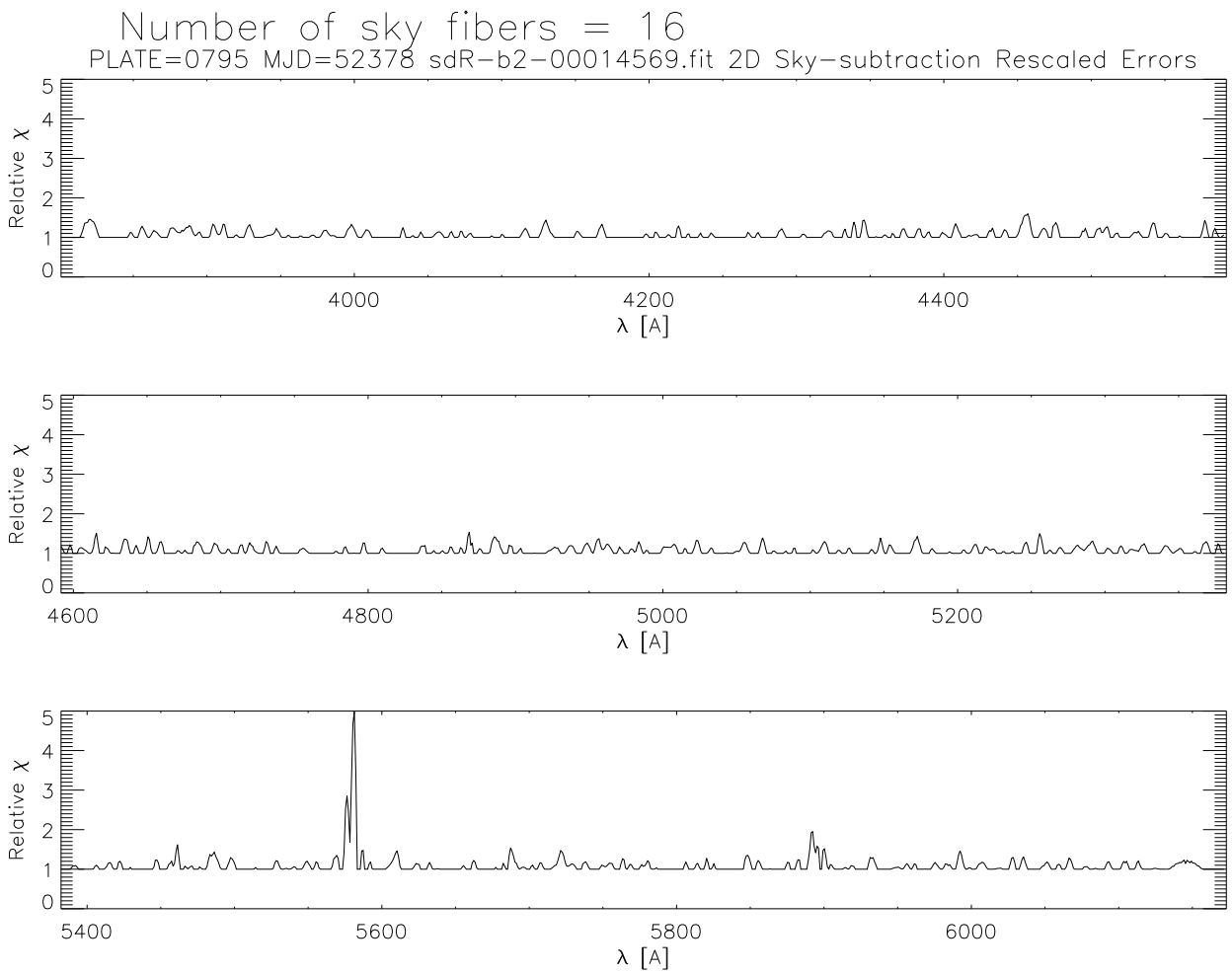

PLATE=0795 MJD=52378 sdR-b2-00014569.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

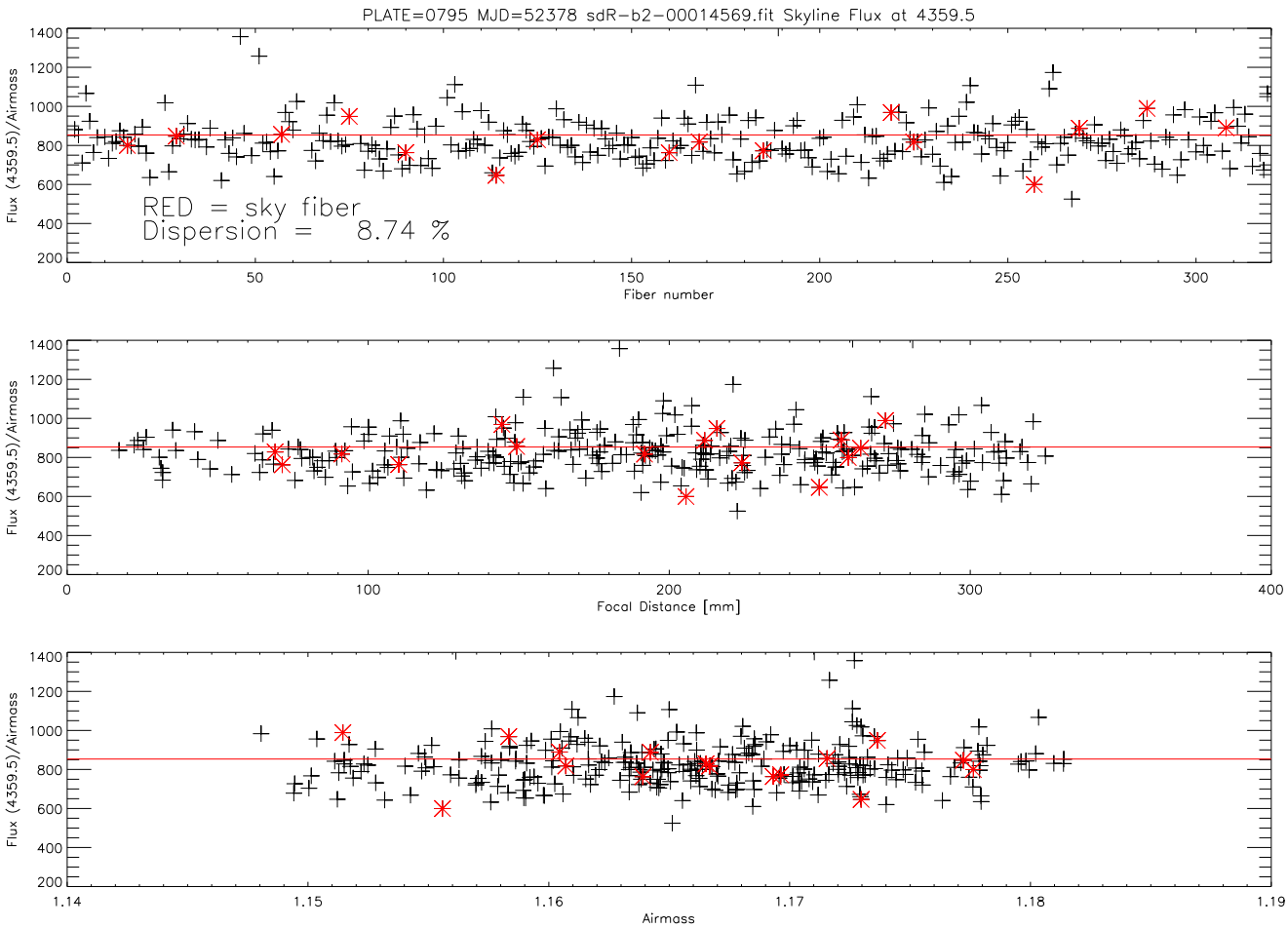

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014569.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

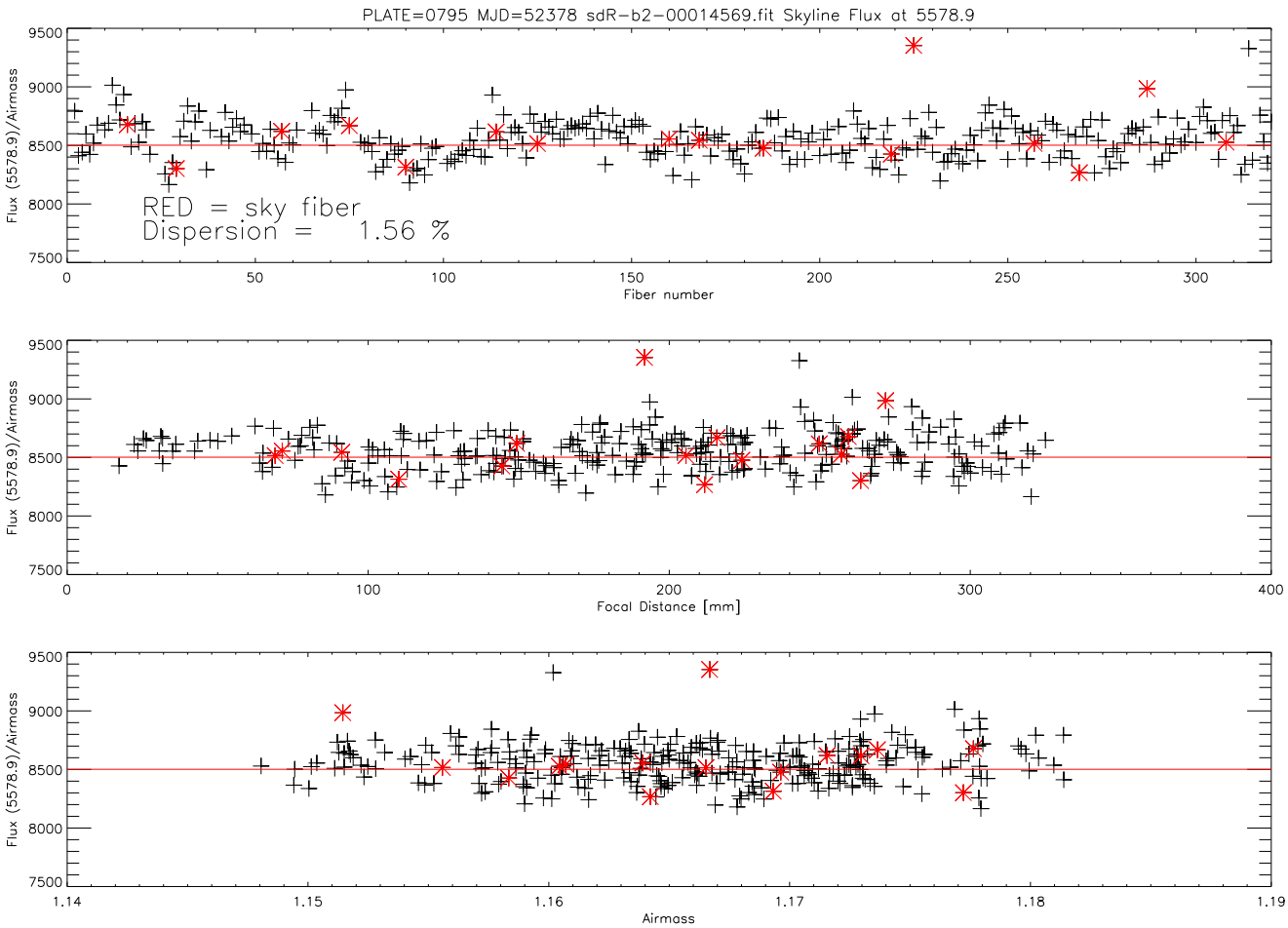

PLATE=0795 MJD=52378 sdR-b2-00014569.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

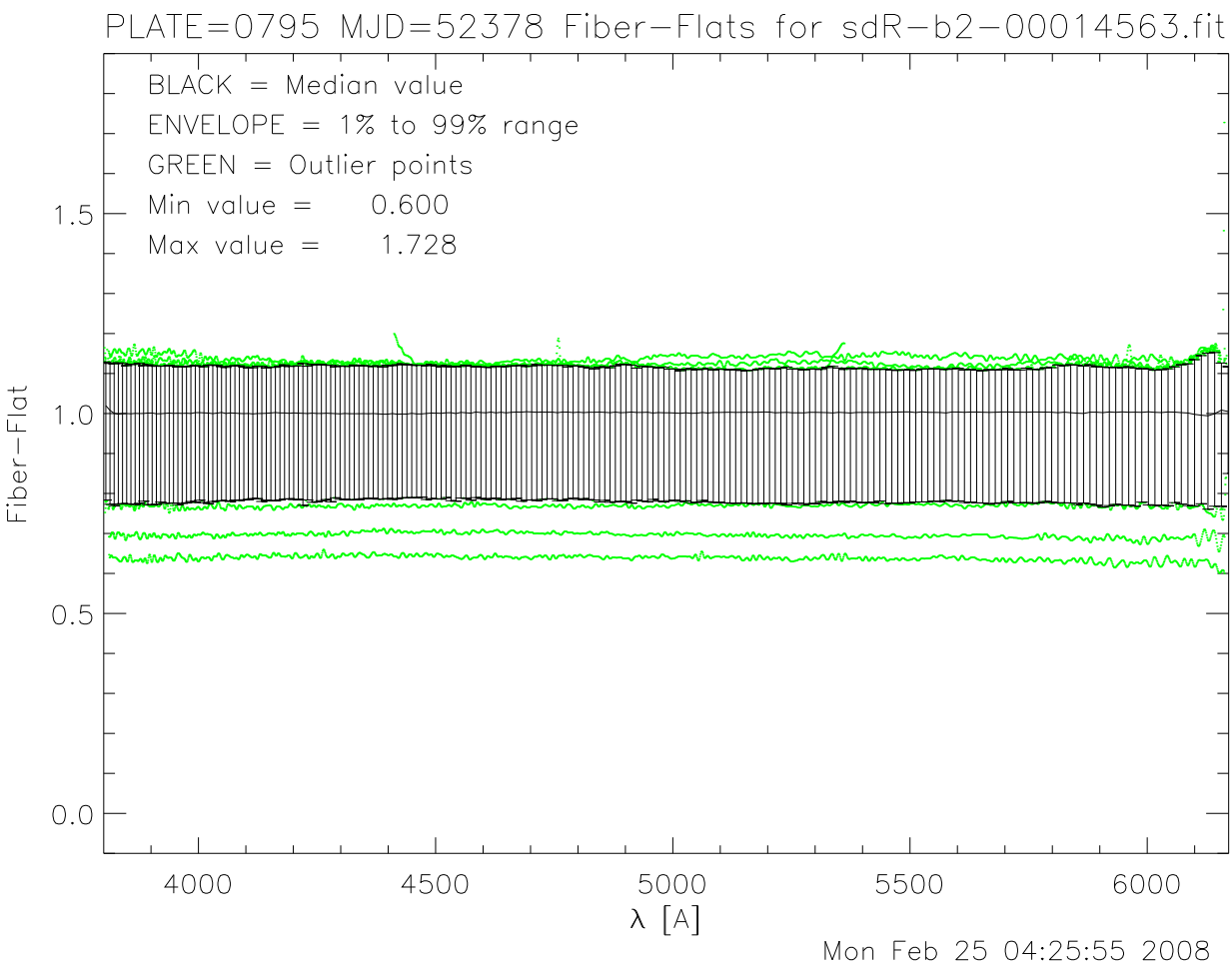

PLATE=0795 MJD=52378 sdR-b2-00014569.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

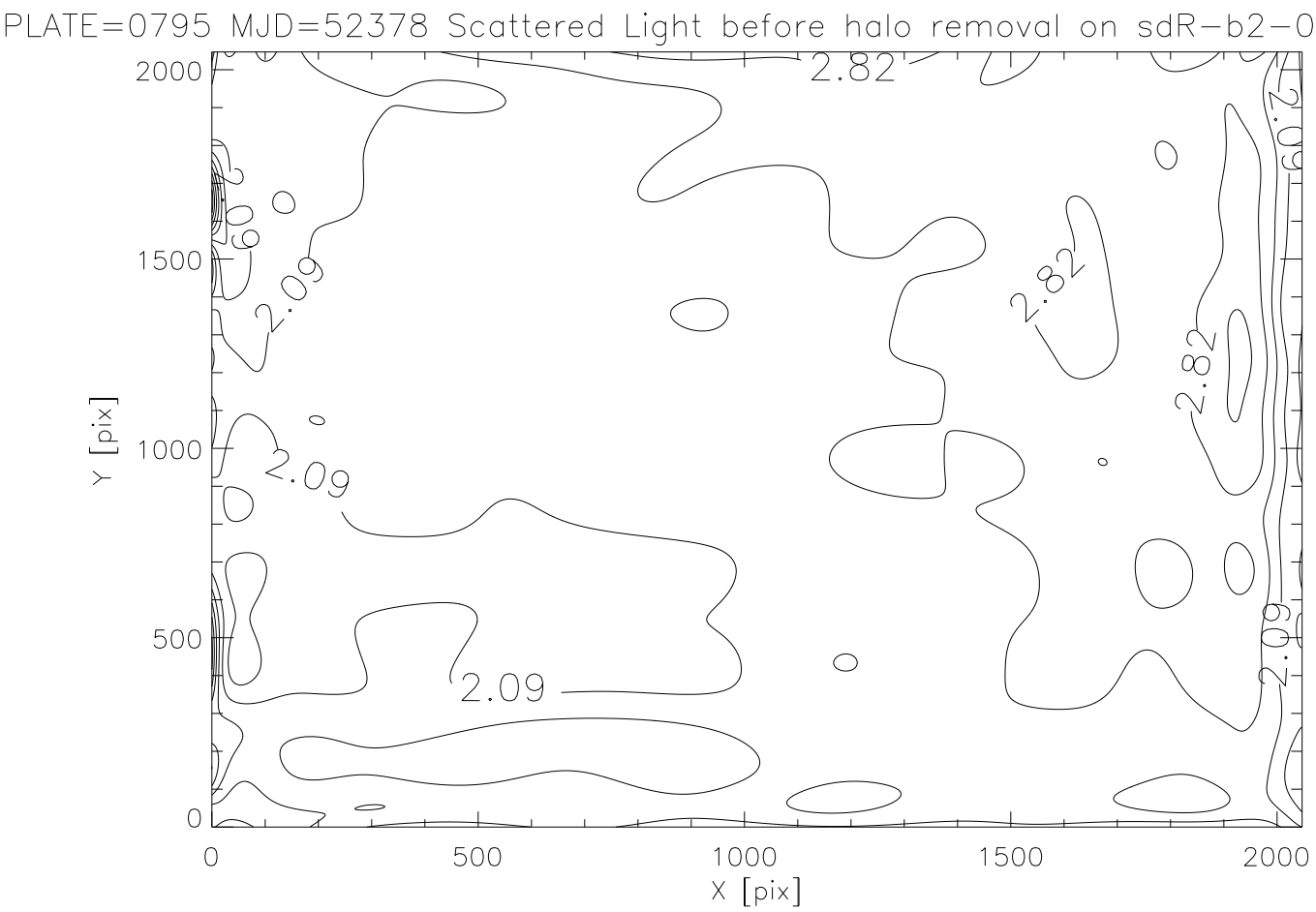

PLATE=0795 MJD=52378 sdR-b2-00014569.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

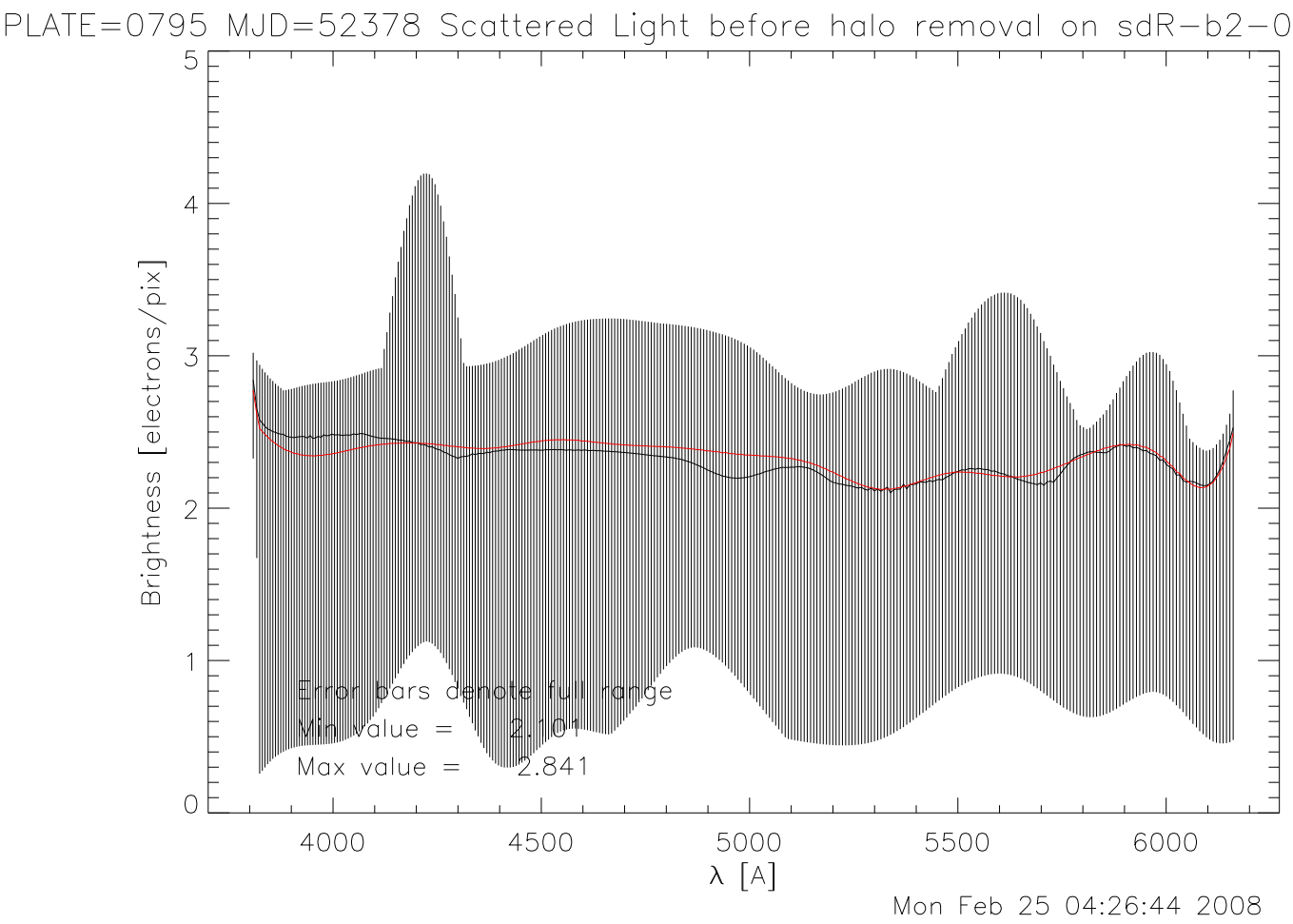

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014569.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

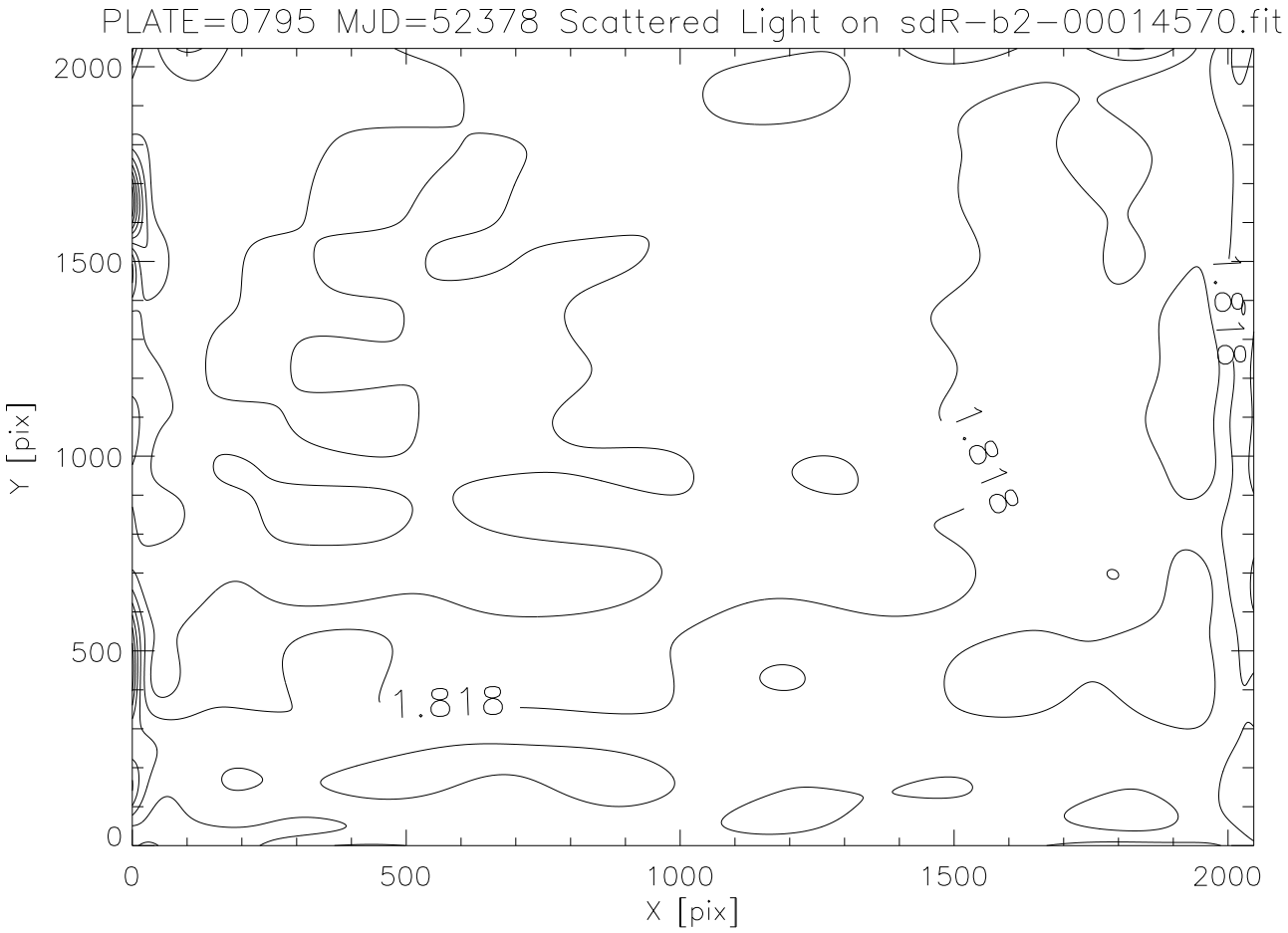

PLATE=0795 MJD=52378 sdR-b2-00014569.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.74 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

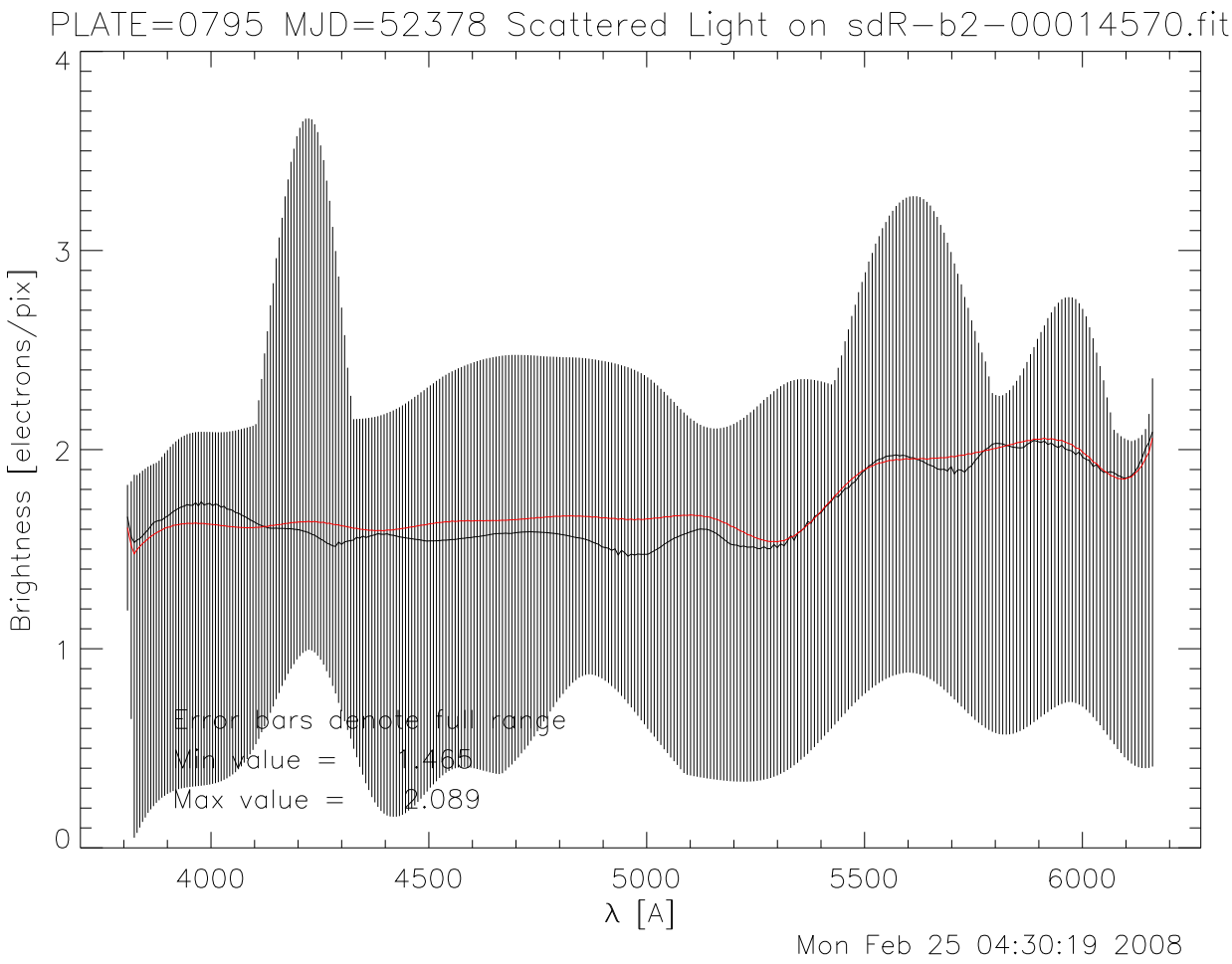

PLATE=0795 MJD=52378 sdR-b2-00014569.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.56 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

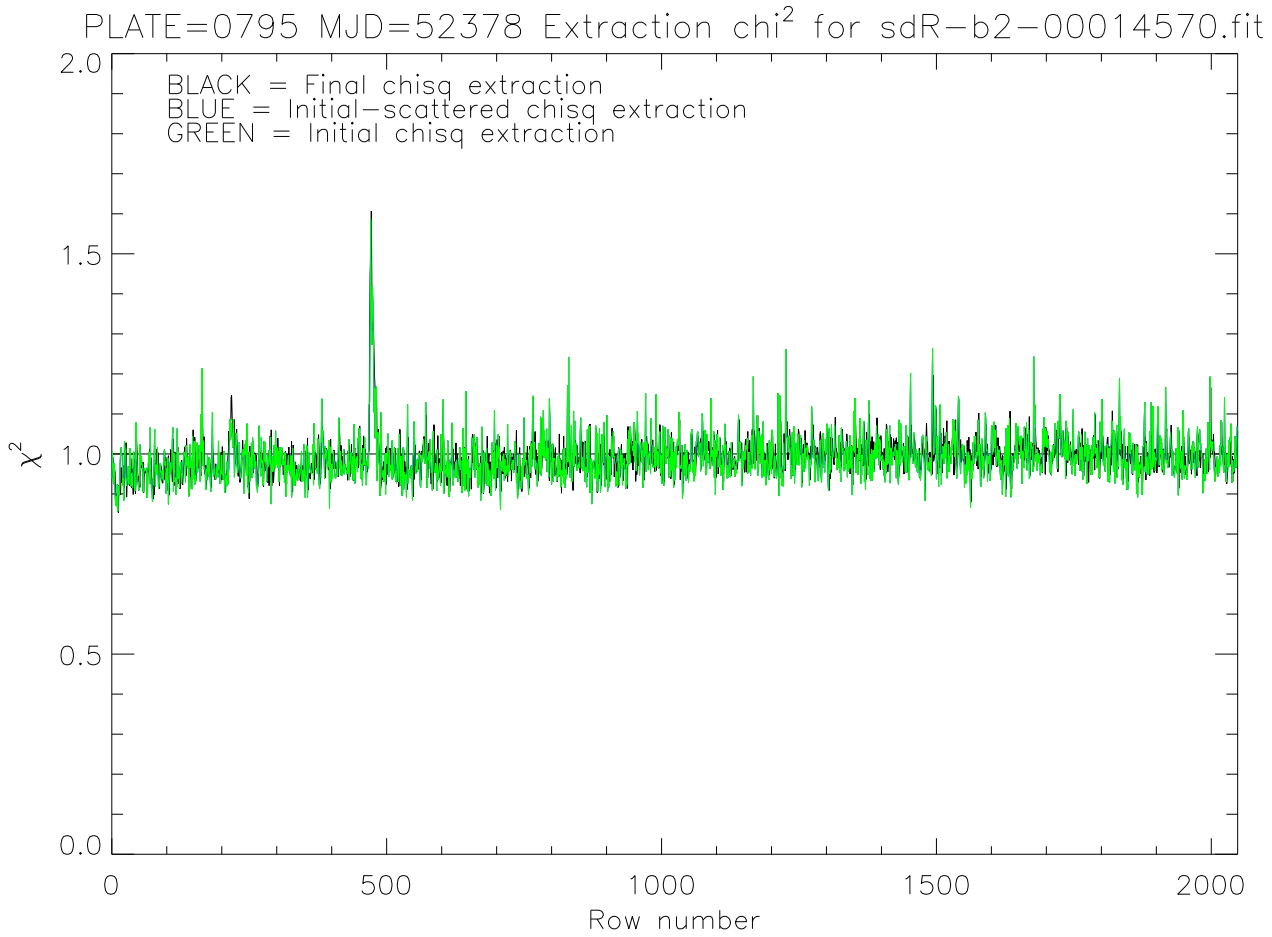

PLATE=0795 MJD=52378 Fiber−Flats for sdR−b2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.600
Max value = 1.728
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 04:25:55 2008

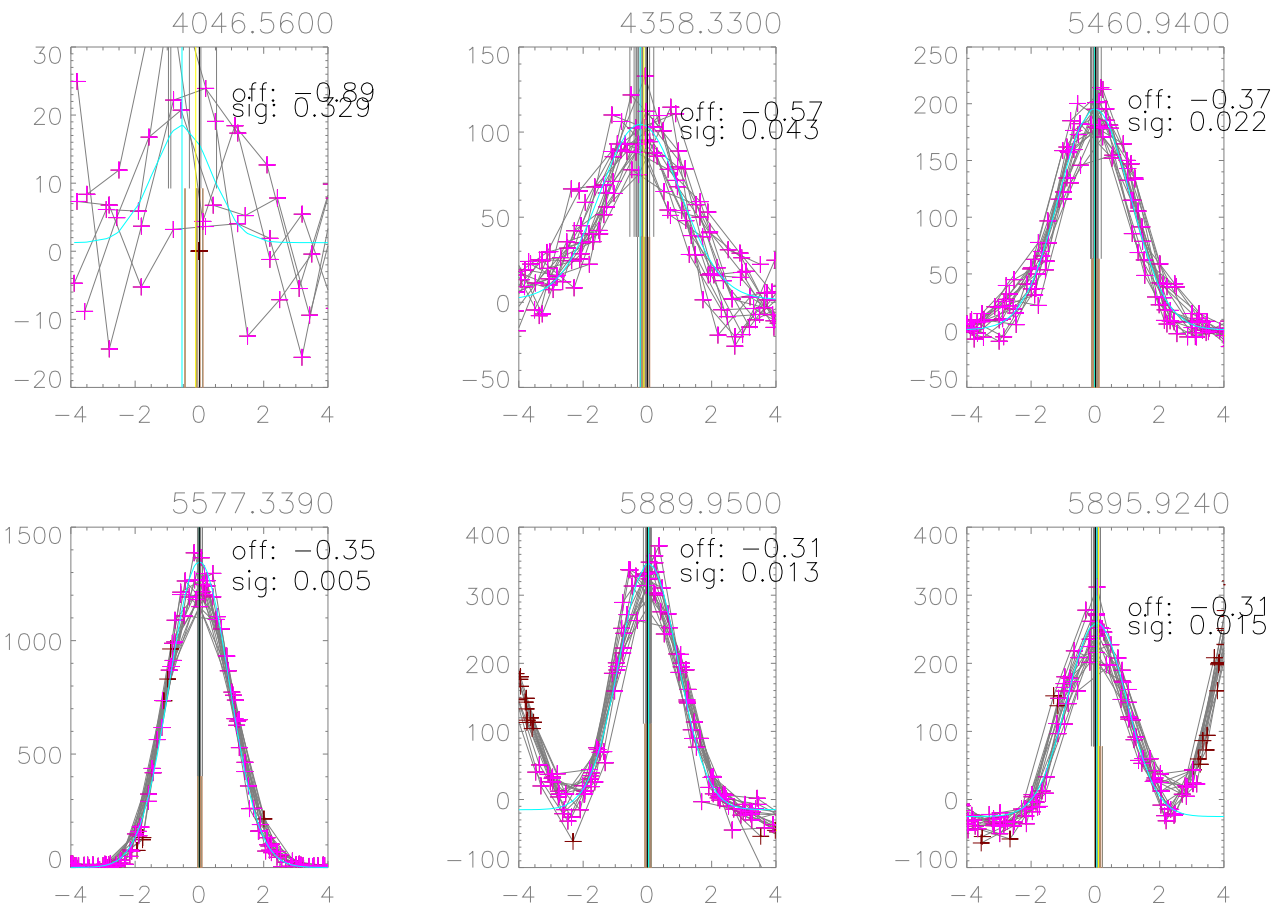

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014570.f
2.82
2.09
2.09
2.82
2.82
2.09
2.09
2.09
Y [pix]
X [pix]
0
500
1000
1500
2000

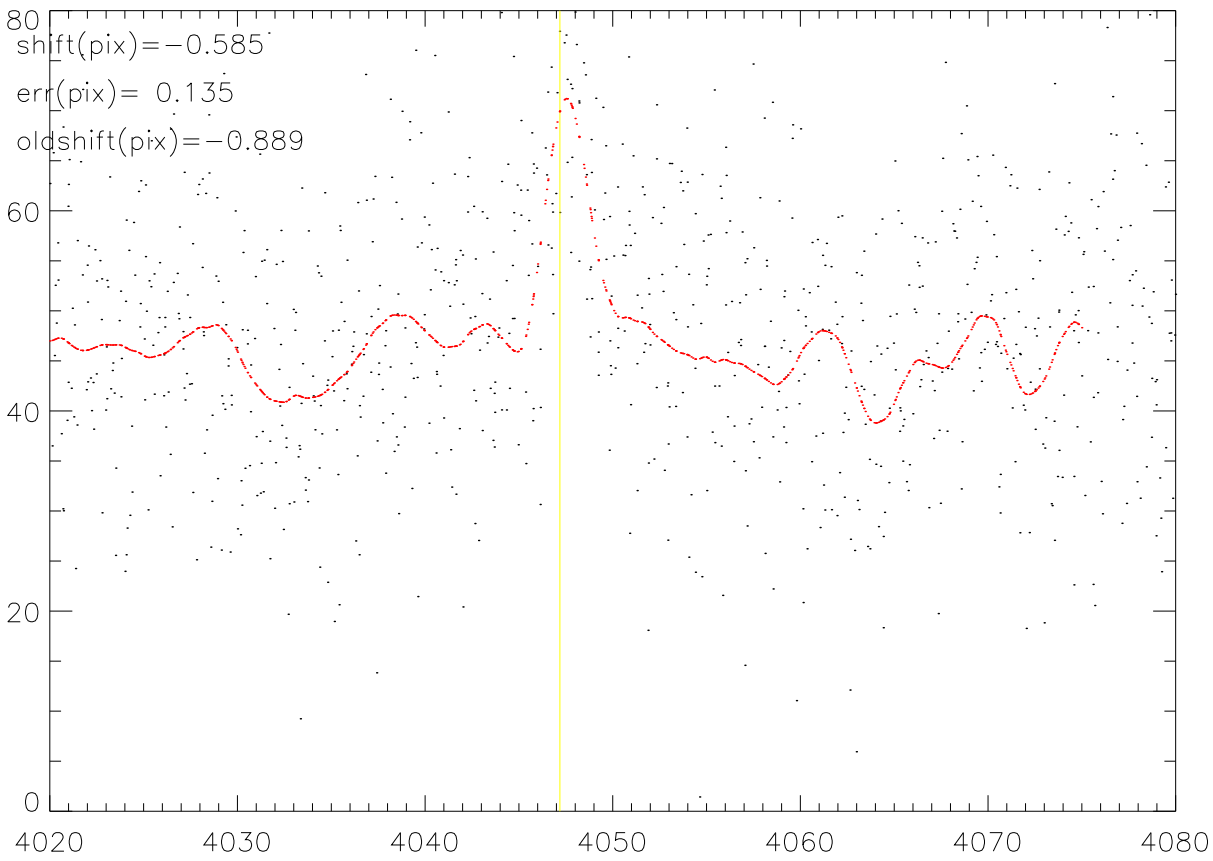

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-b2-00014570.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.101
Max value = 2.841
Mon Feb 25 04:26:44 2008

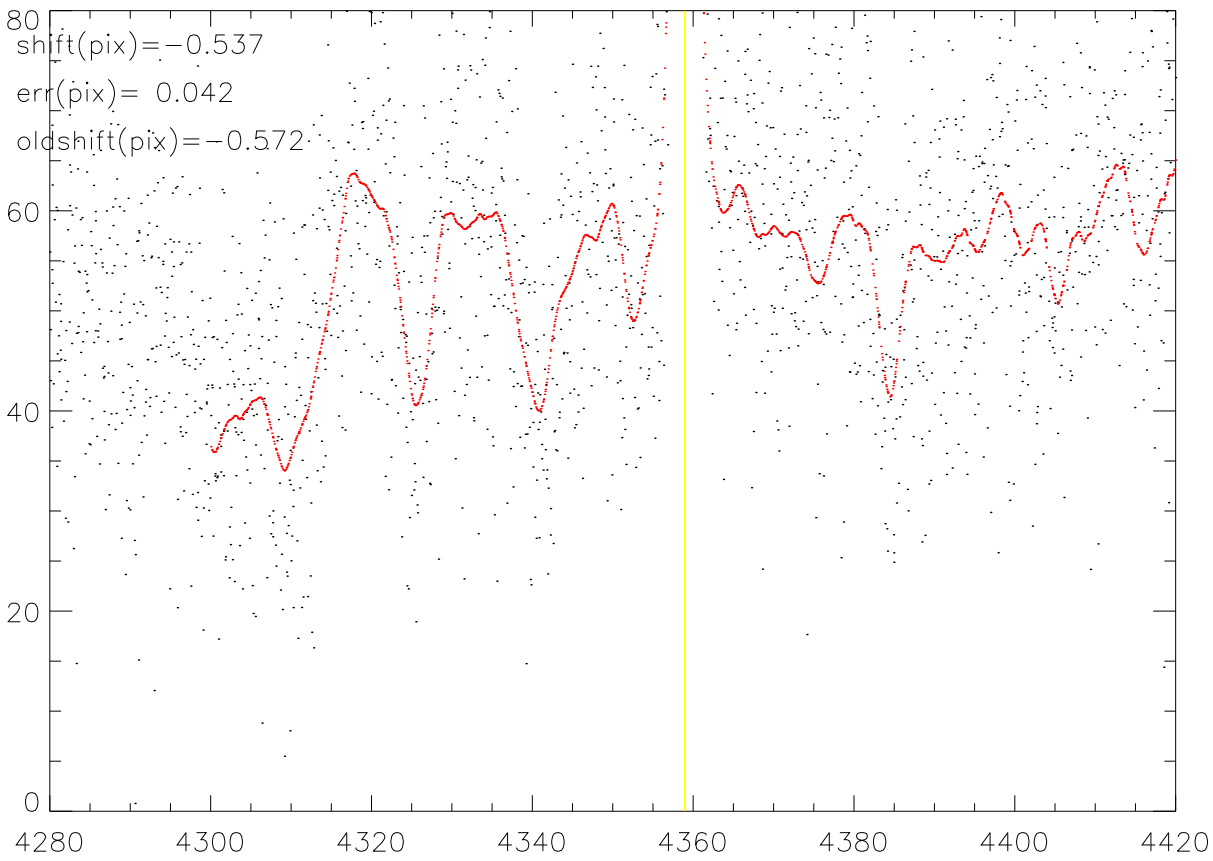

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014570.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.818
1.818
1.818

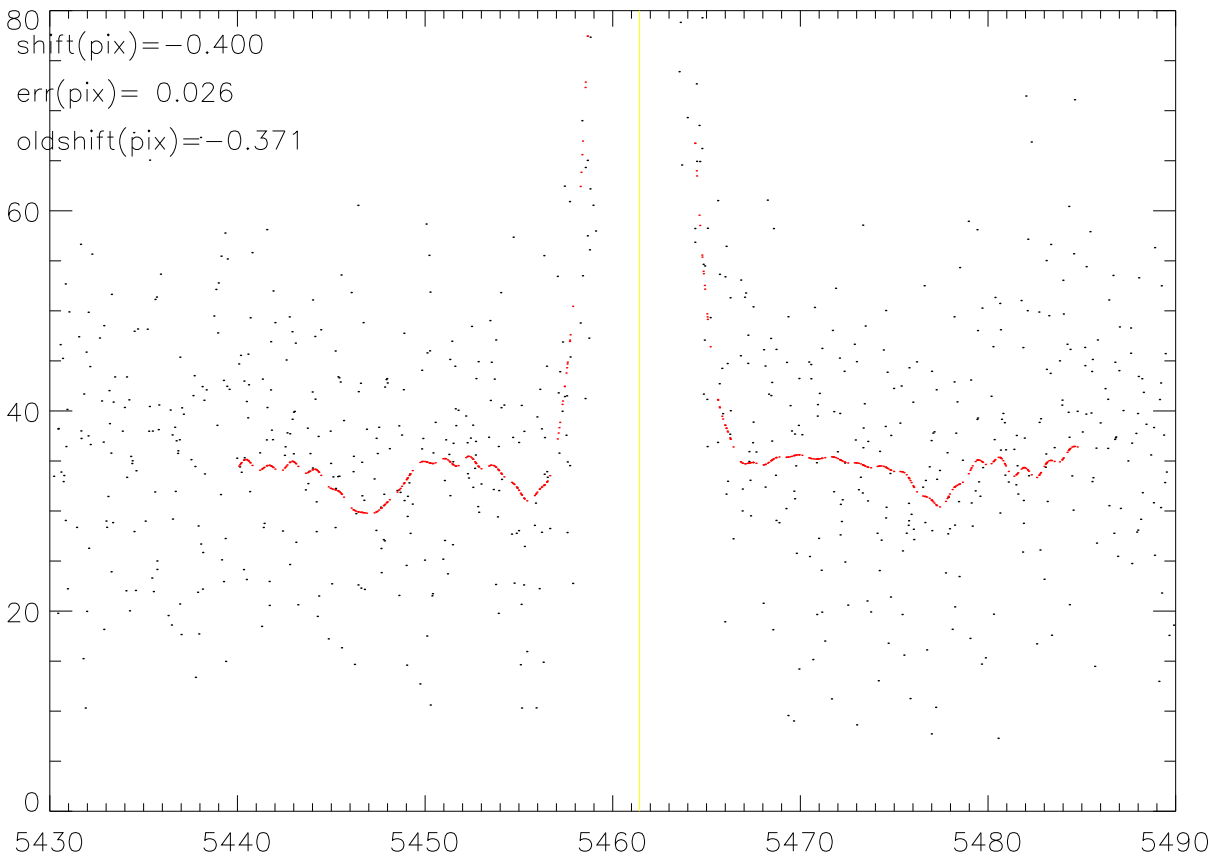

PLATE=0795 MJD=52378 Scattered Light on sdR-b2-00014570.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.465
Max value = 2.089
Mon Feb 25 04:30:19 2008

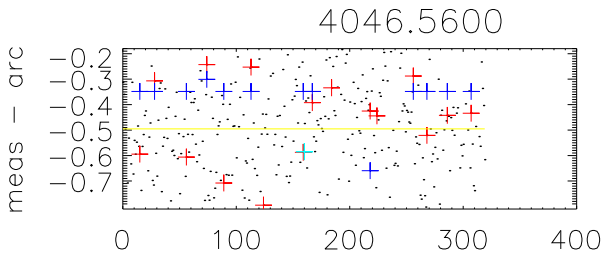

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-b2-00014570.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

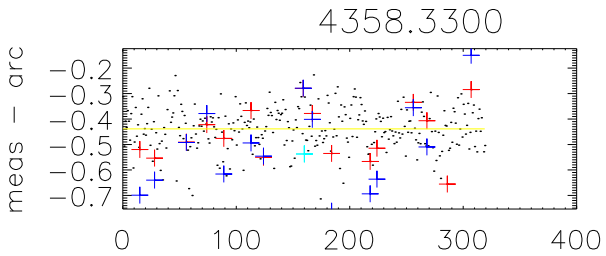

4046.5600
off: −0.89
sig: 0.329
4358.3300
off: −0.57
sig: 0.043
5460.9400
off: −0.37
sig: 0.022
5577.3390
off: −0.35
sig: 0.005
5889.9500
off: −0.31
sig: 0.013
5895.9240
off: −0.31
sig: 0.015

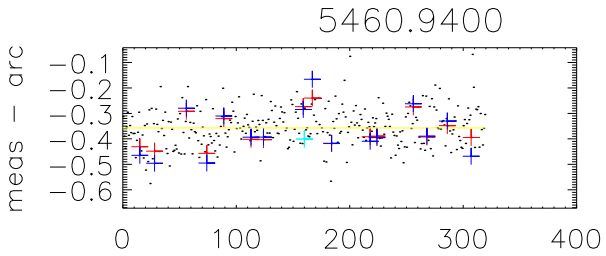

shift(pix)=−0.585
err(pix)= 0.135
oldshift(pix)=−0.889
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

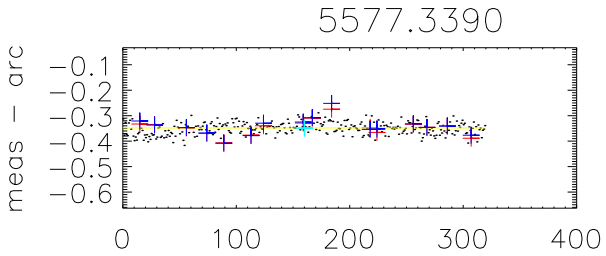

shift(pix)=−0.537
err(pix)= 0.042
oldshift(pix)=−0.572
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

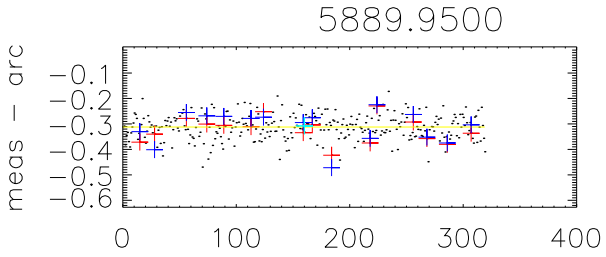

shift(pix)=−0.400
err(pix)= 0.026
oldshift(pix)=−0.371
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

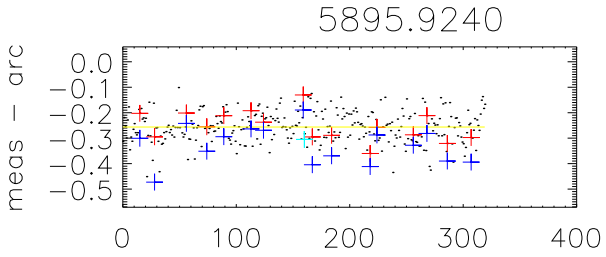

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

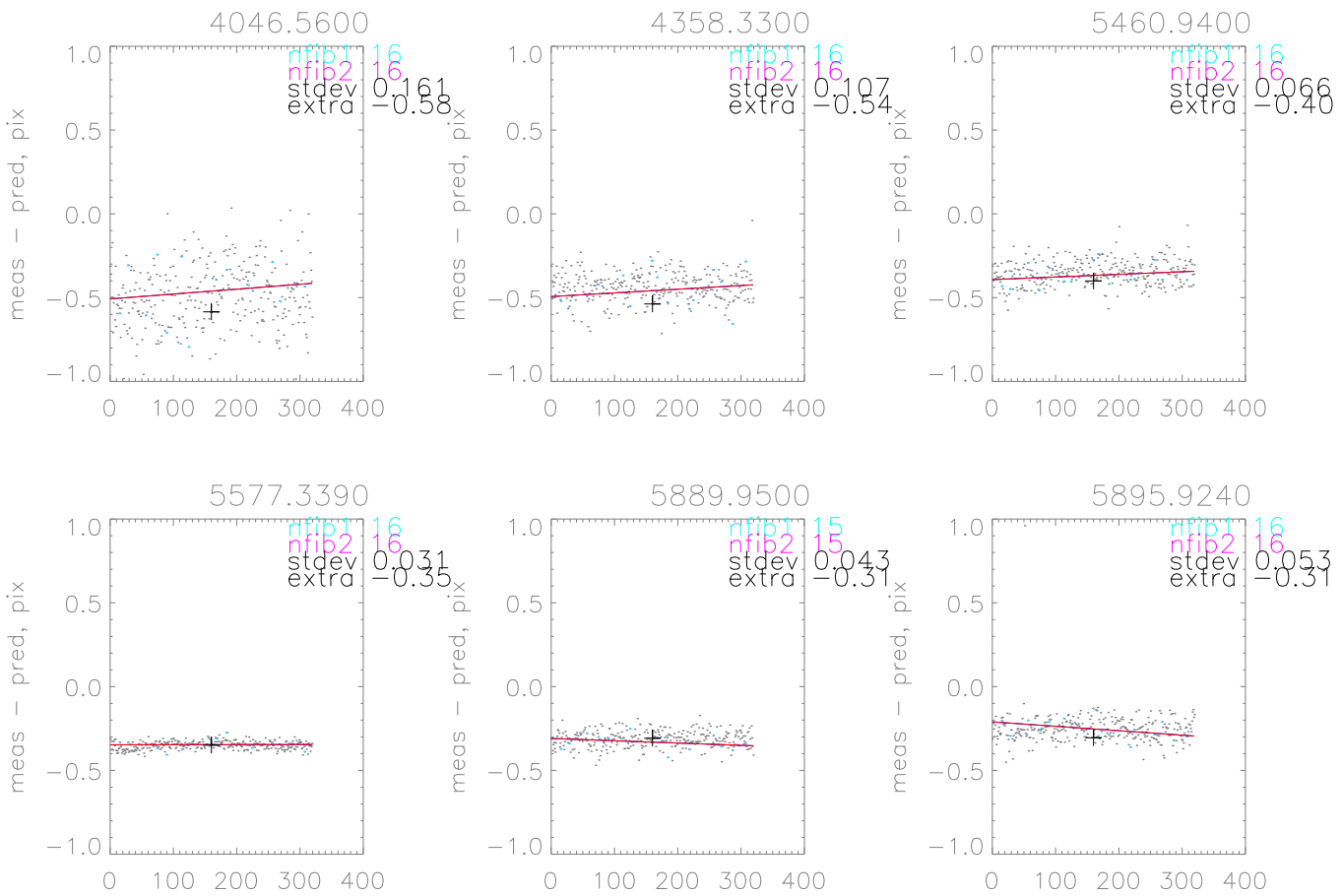

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

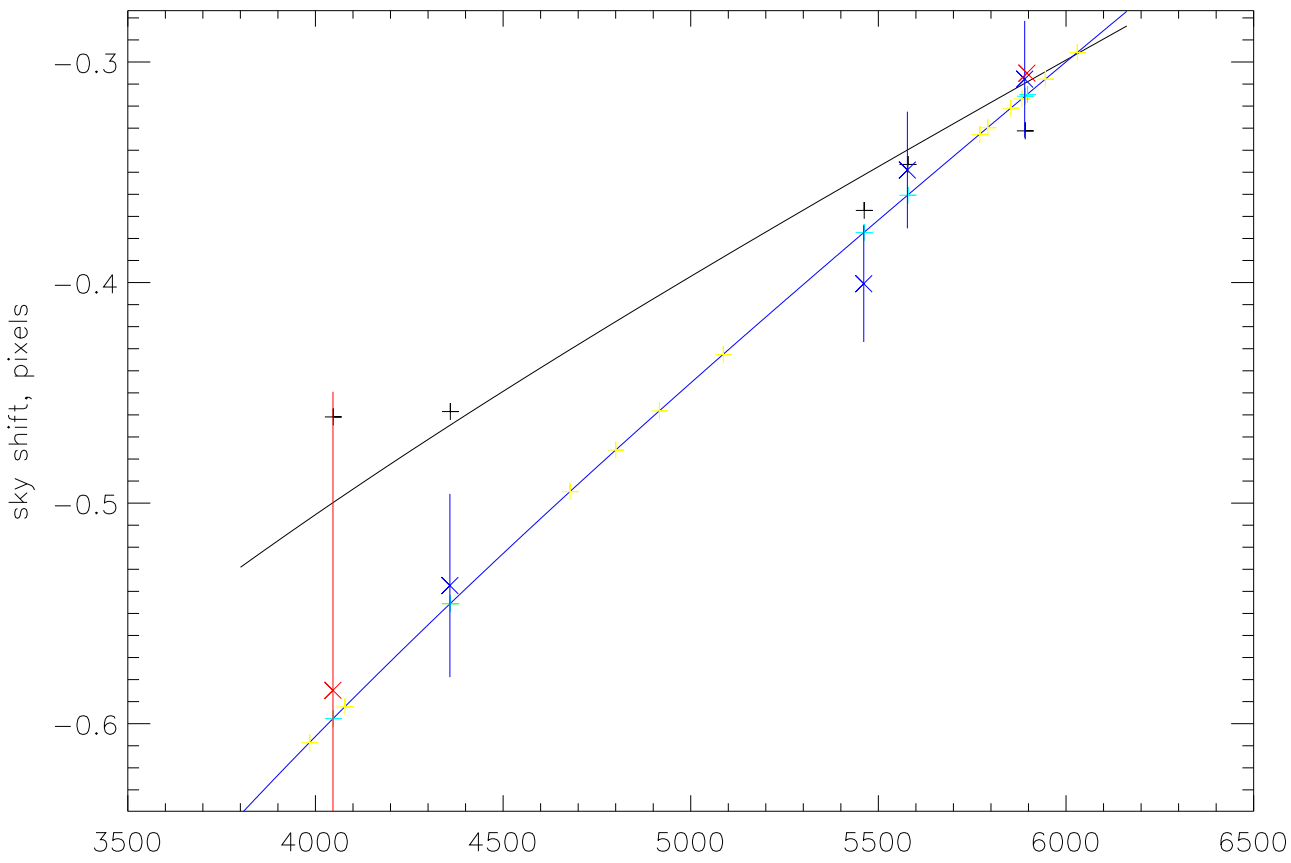

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

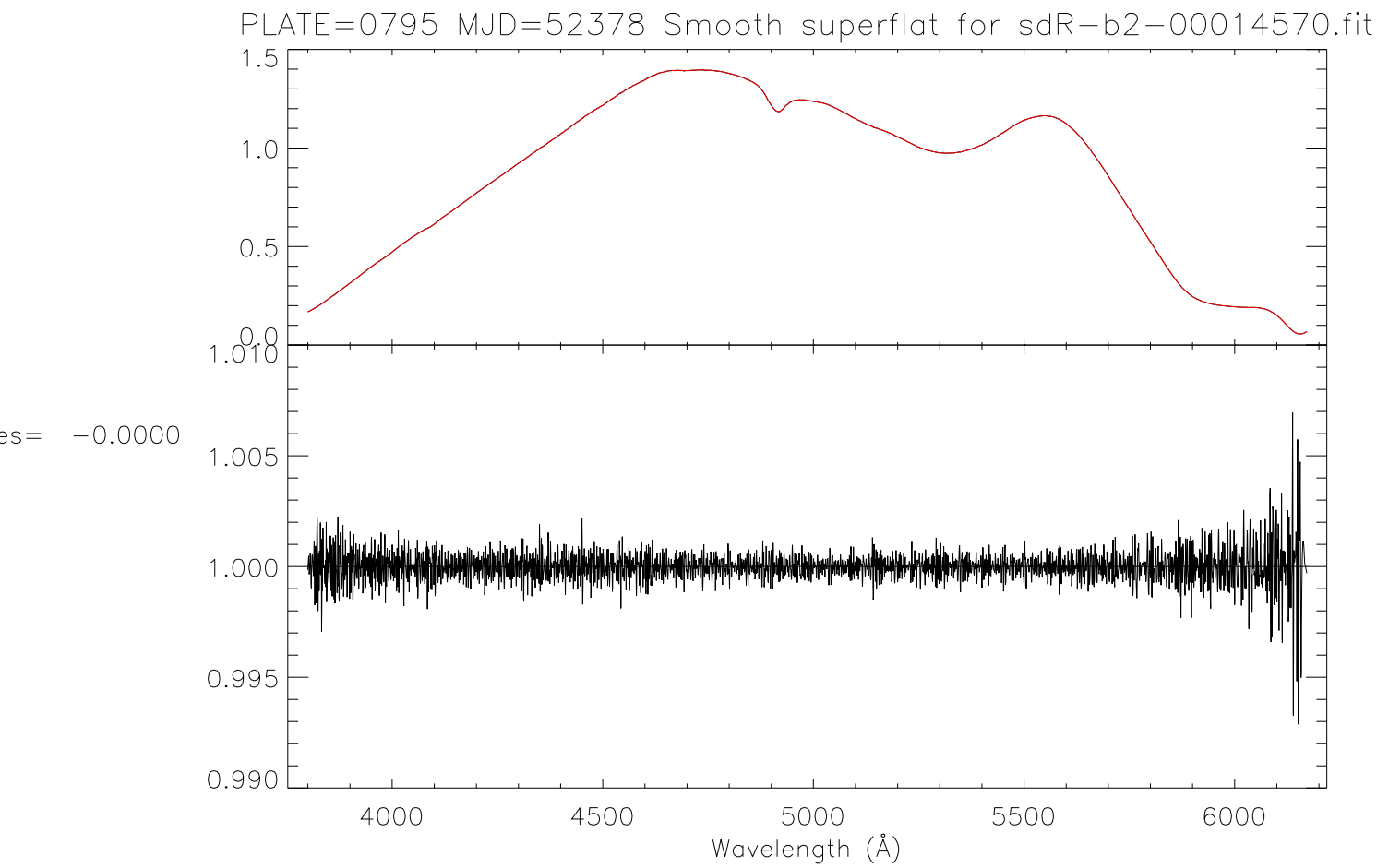

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

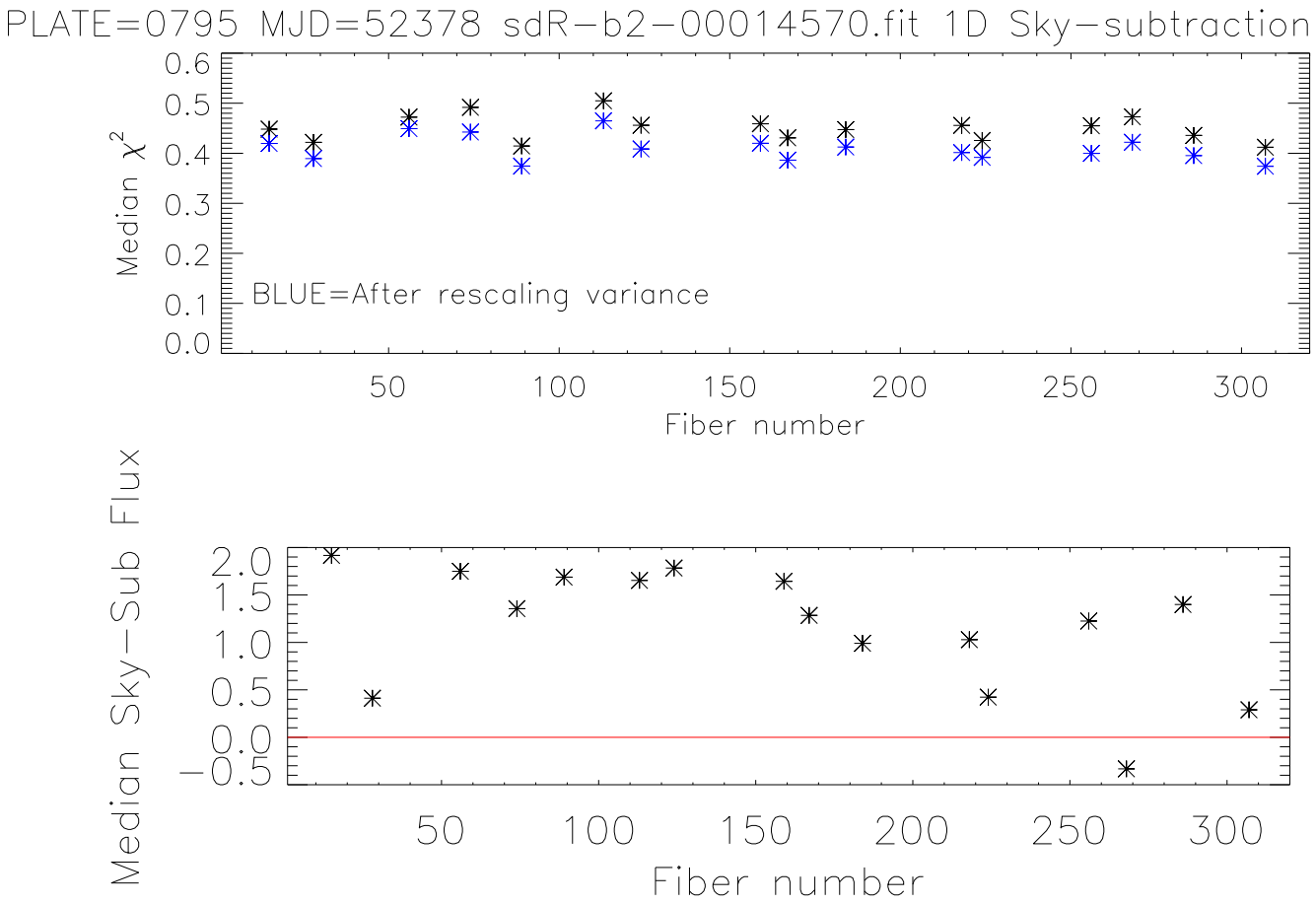

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

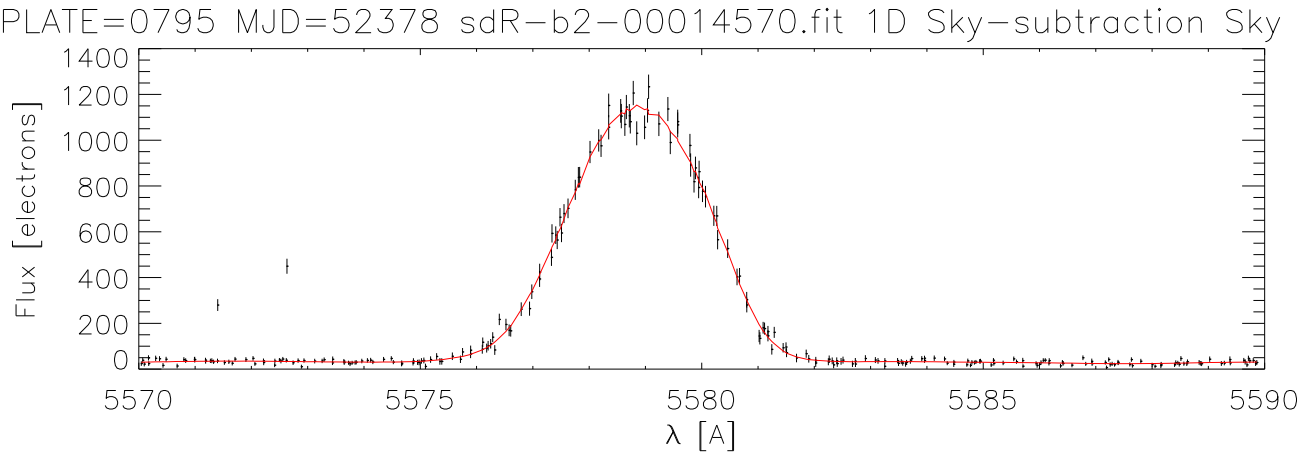

4046.5600
nfib1 16
nfib2 16
stdev 0.161
extra −0.58
4358.3300
nfib1 16
nfib2 16
stdev 0.107
extra −0.54
5460.9400
nfib1 16
nfib2 16
stdev 0.066
extra −0.40
5577.3390
nfib1 16
nfib2 16
stdev 0.031
extra −0.35
5889.9500
nfib1 15
nfib2 15
stdev 0.043
extra −0.31
5895.9240
nfib1 16
nfib2 16
stdev 0.053
extra −0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

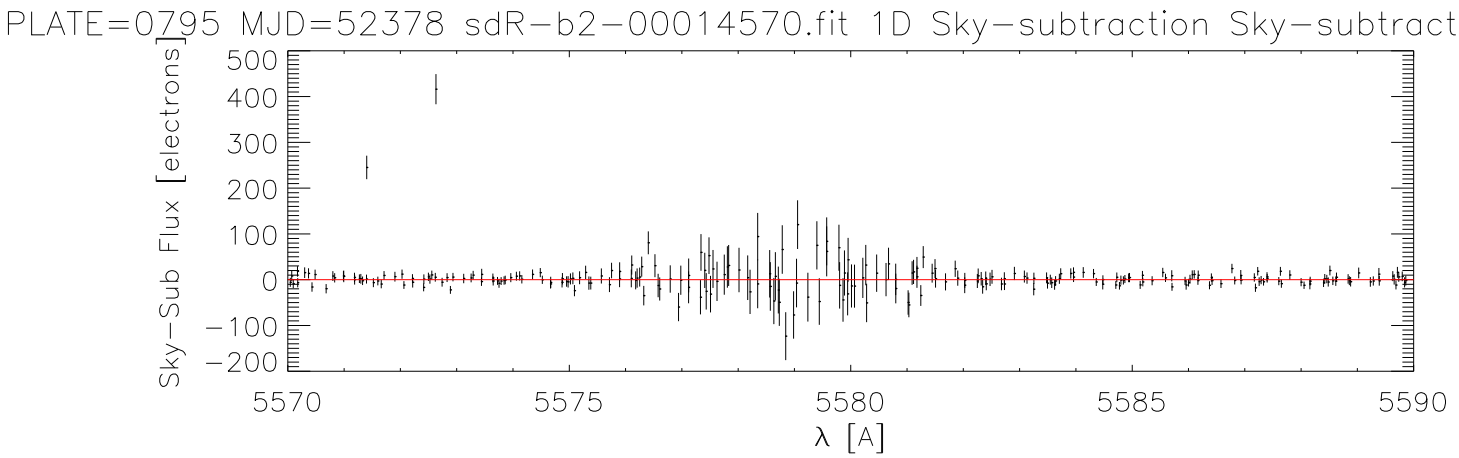

−0.3
−0.4
−0.5
−0.6
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

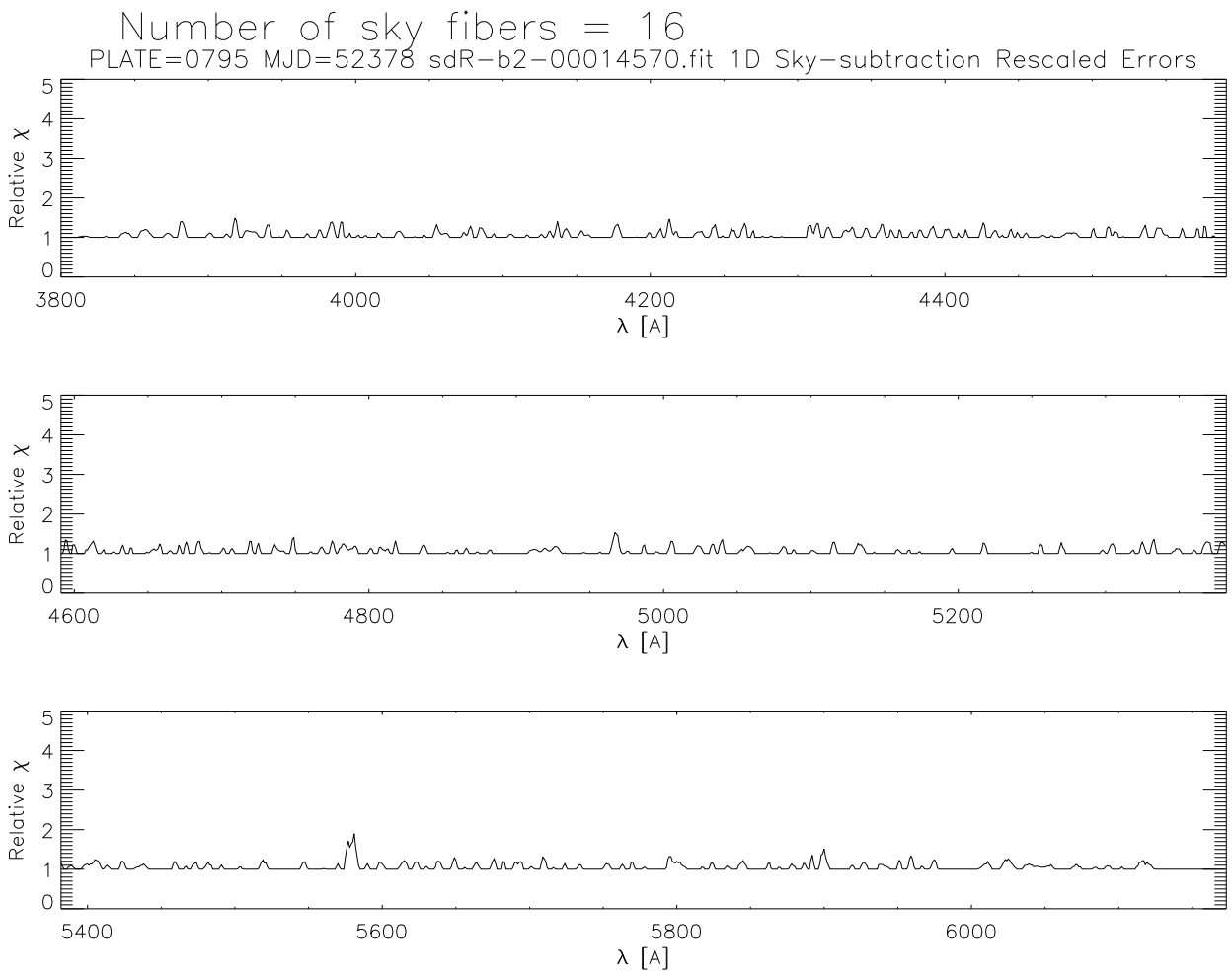

PLATE=0795 MJD=52378 Smooth superflat for sdR-b2-00014570.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

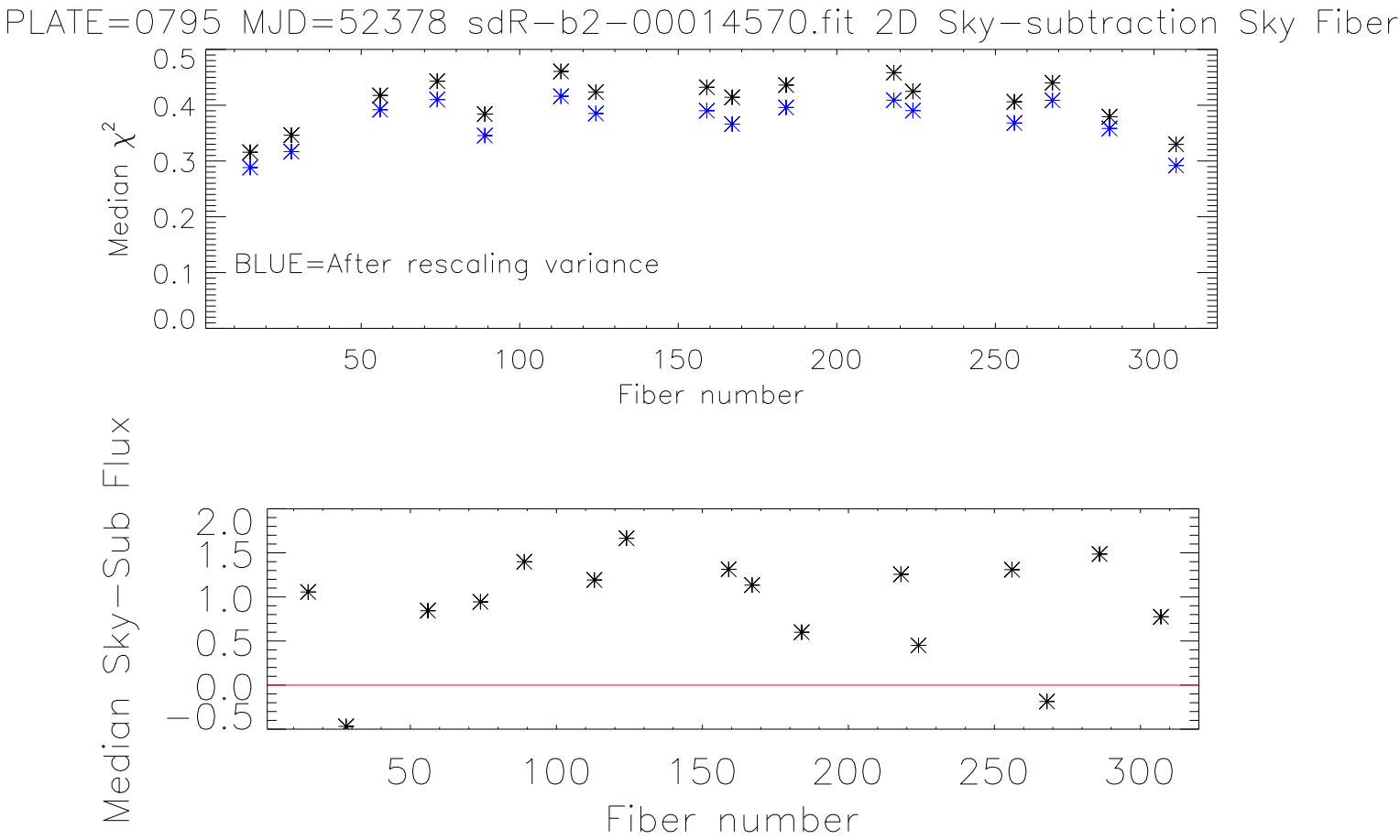
es= −0.0000

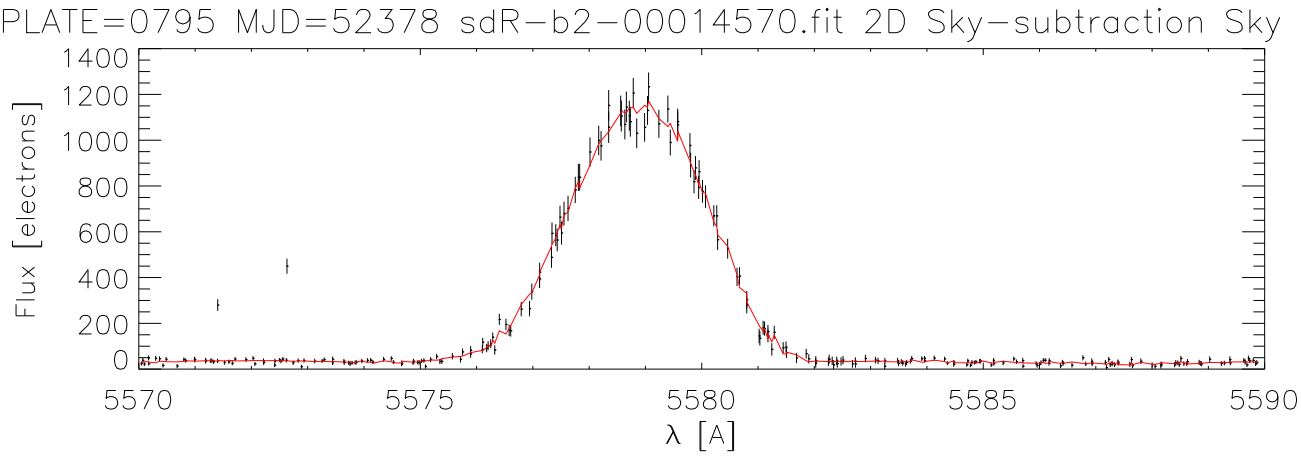

PLATE=0795 MJD=52378 sdR-b2-00014570.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

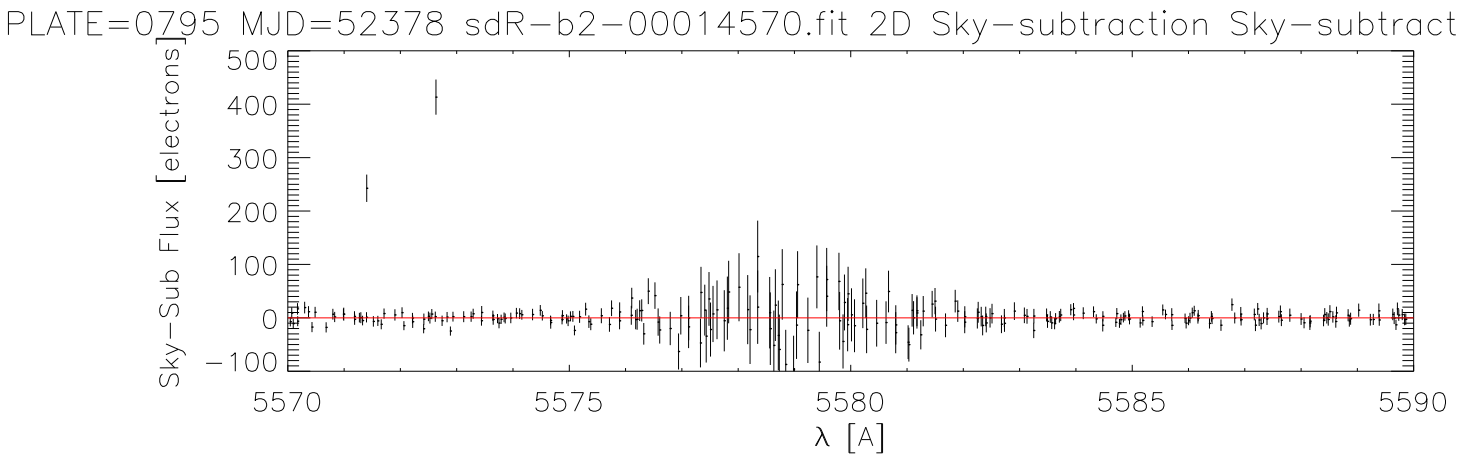

PLATE=0795 MJD=52378 sdR-b2-00014570.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

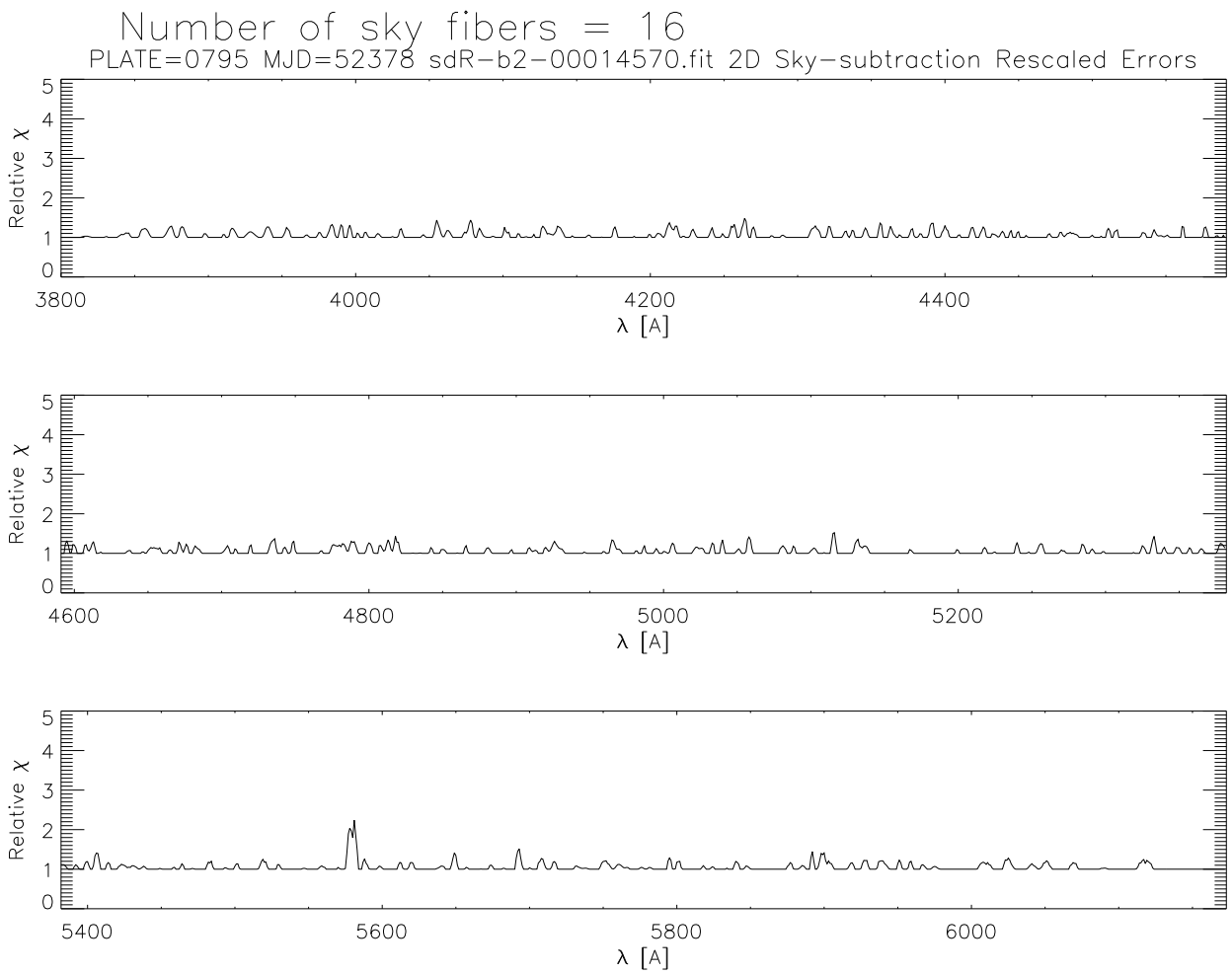

PLATE=0795 MJD=52378 sdR-b2-00014570.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

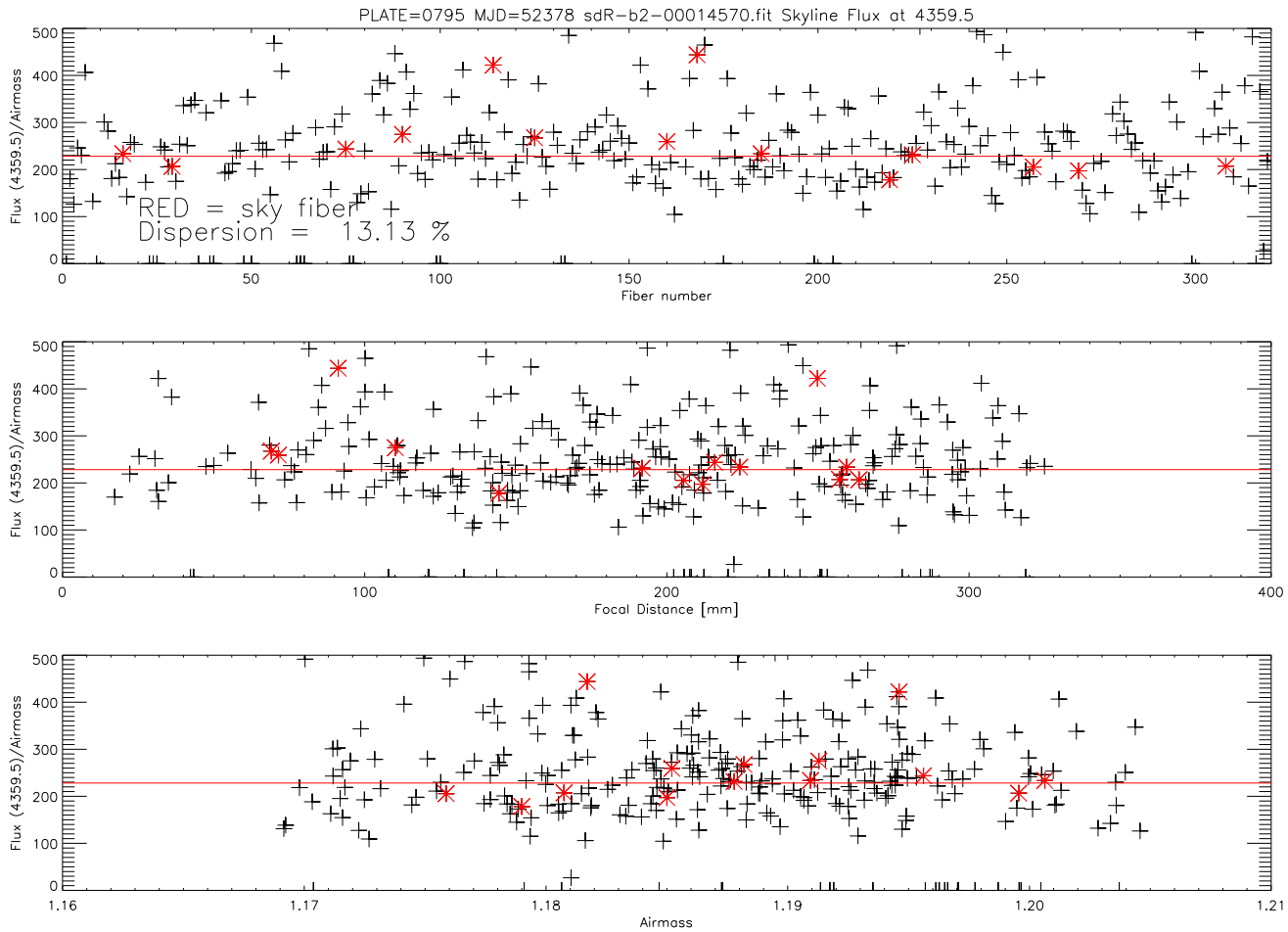

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014570.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

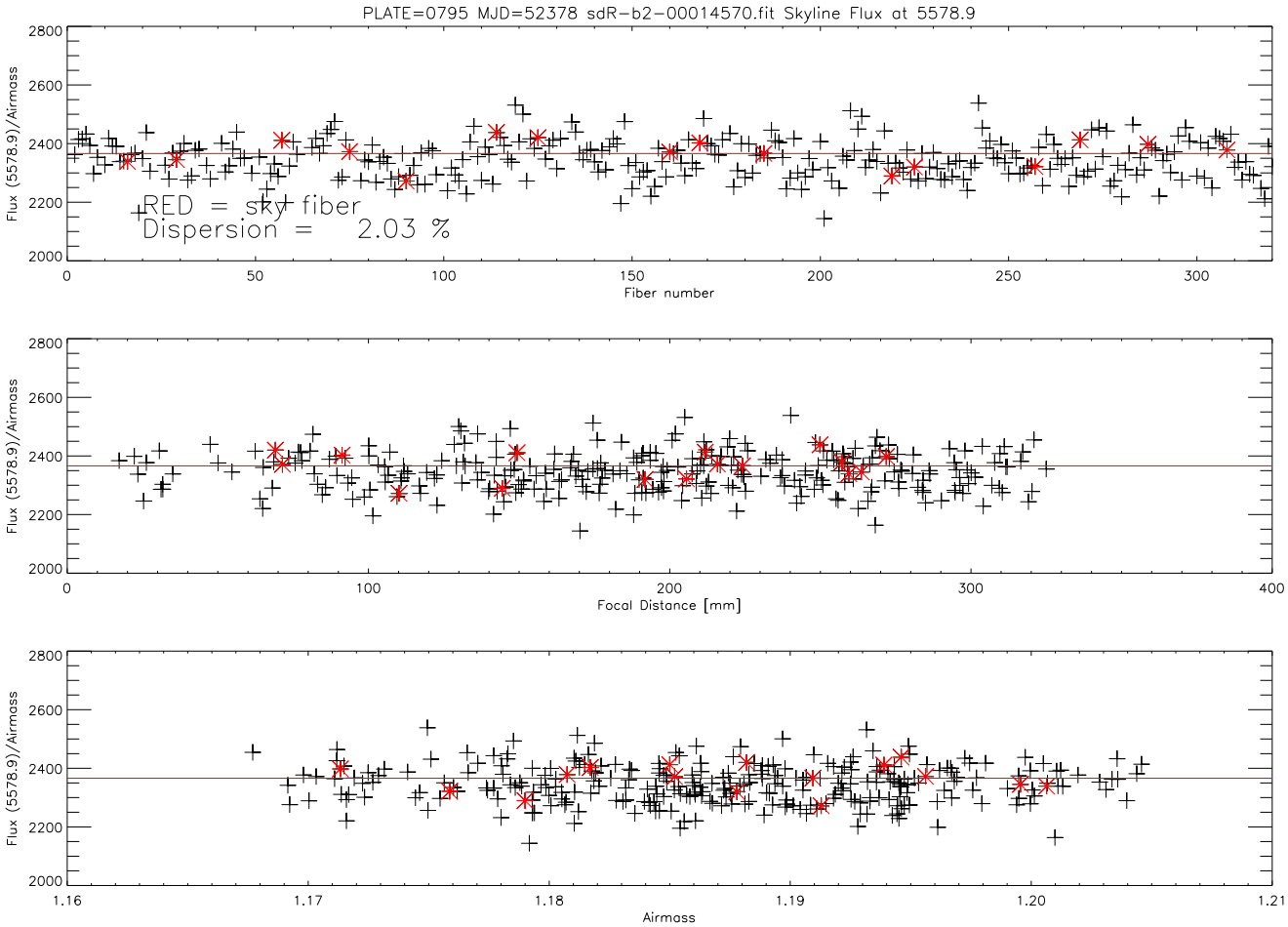

PLATE=0795 MJD=52378 sdR-b2-00014570.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

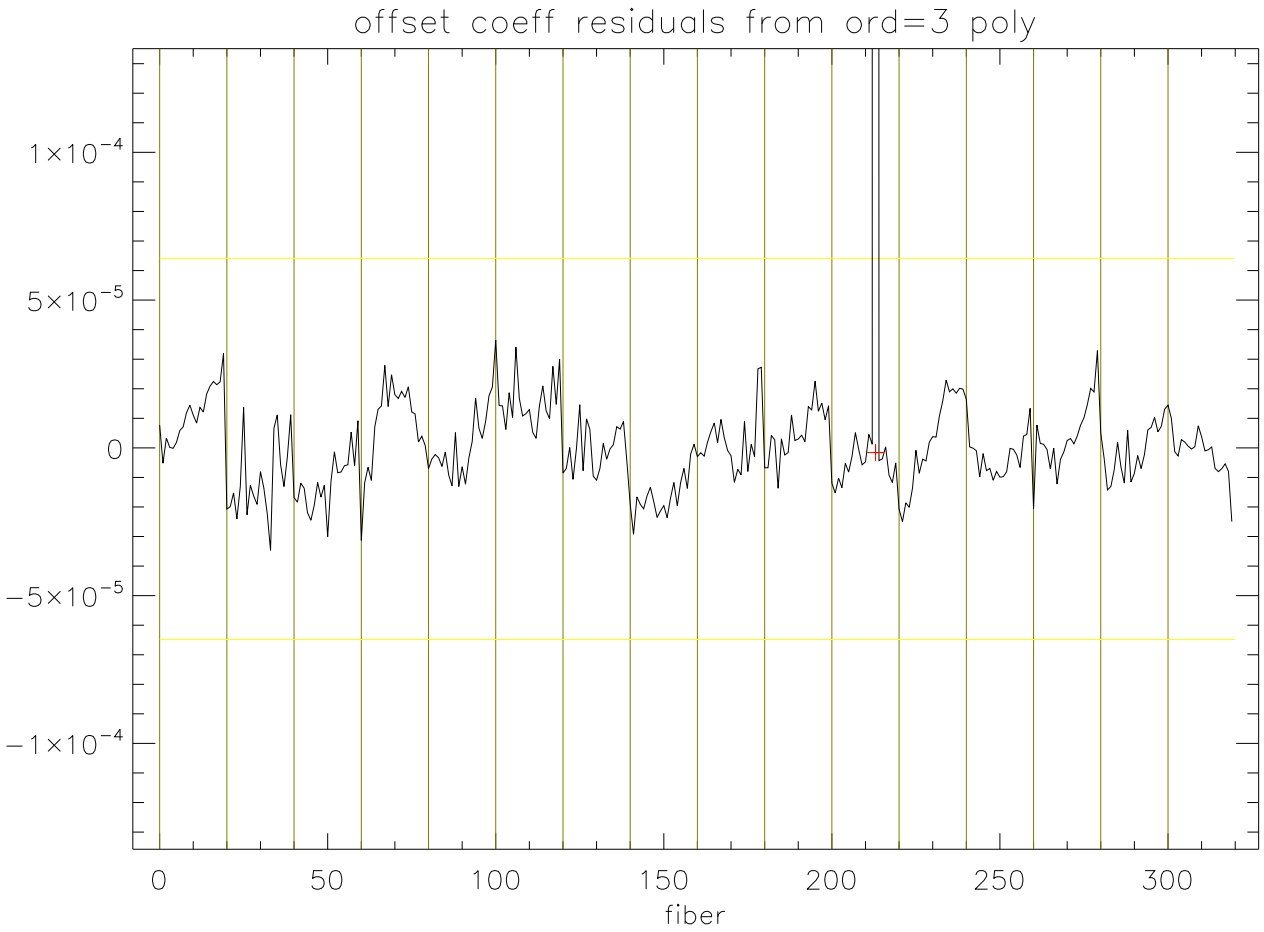

PLATE=0795 MJD=52378 sdR-b2-00014570.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
5570
5575
5580
5585
5590
λ [A]

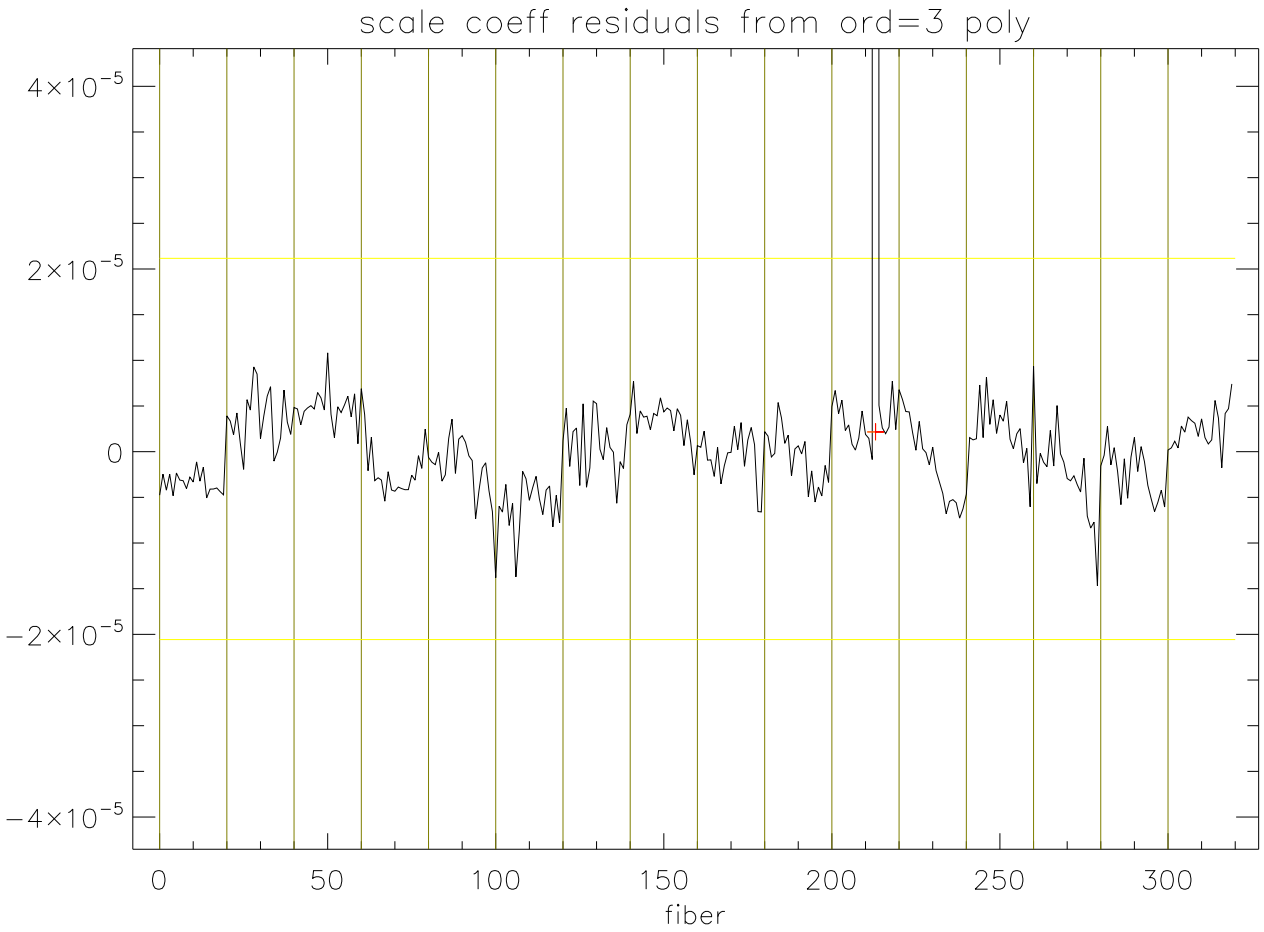

PLATE=0795 MJD=52378 sdR-b2-00014570.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
400
300
200
100
0
-100
5570
5575
5580
5585
5590
λ [A]

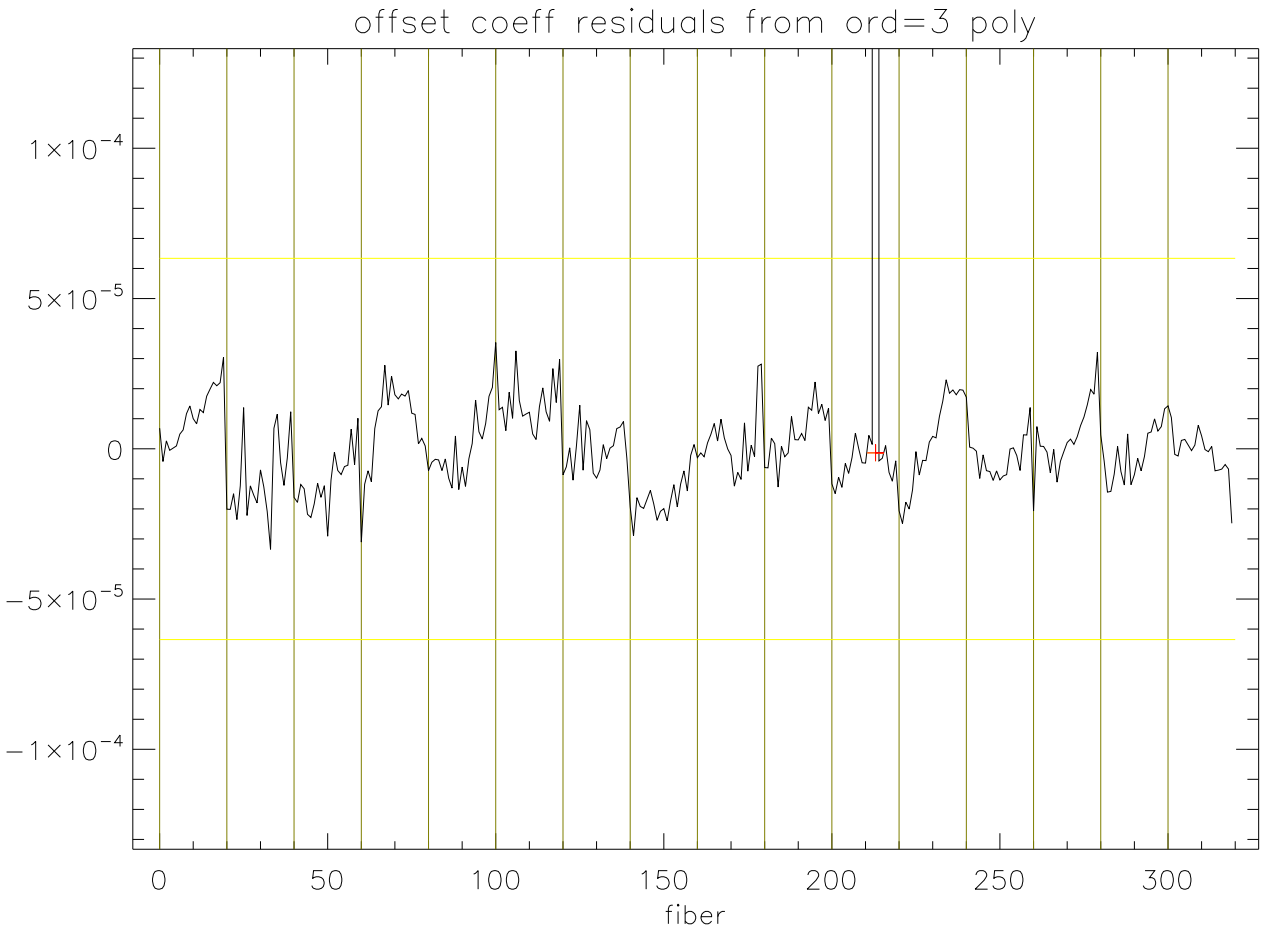

Number of sky fibers = 16
PLATE=0795 MJD=52378 sdR-b2-00014570.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

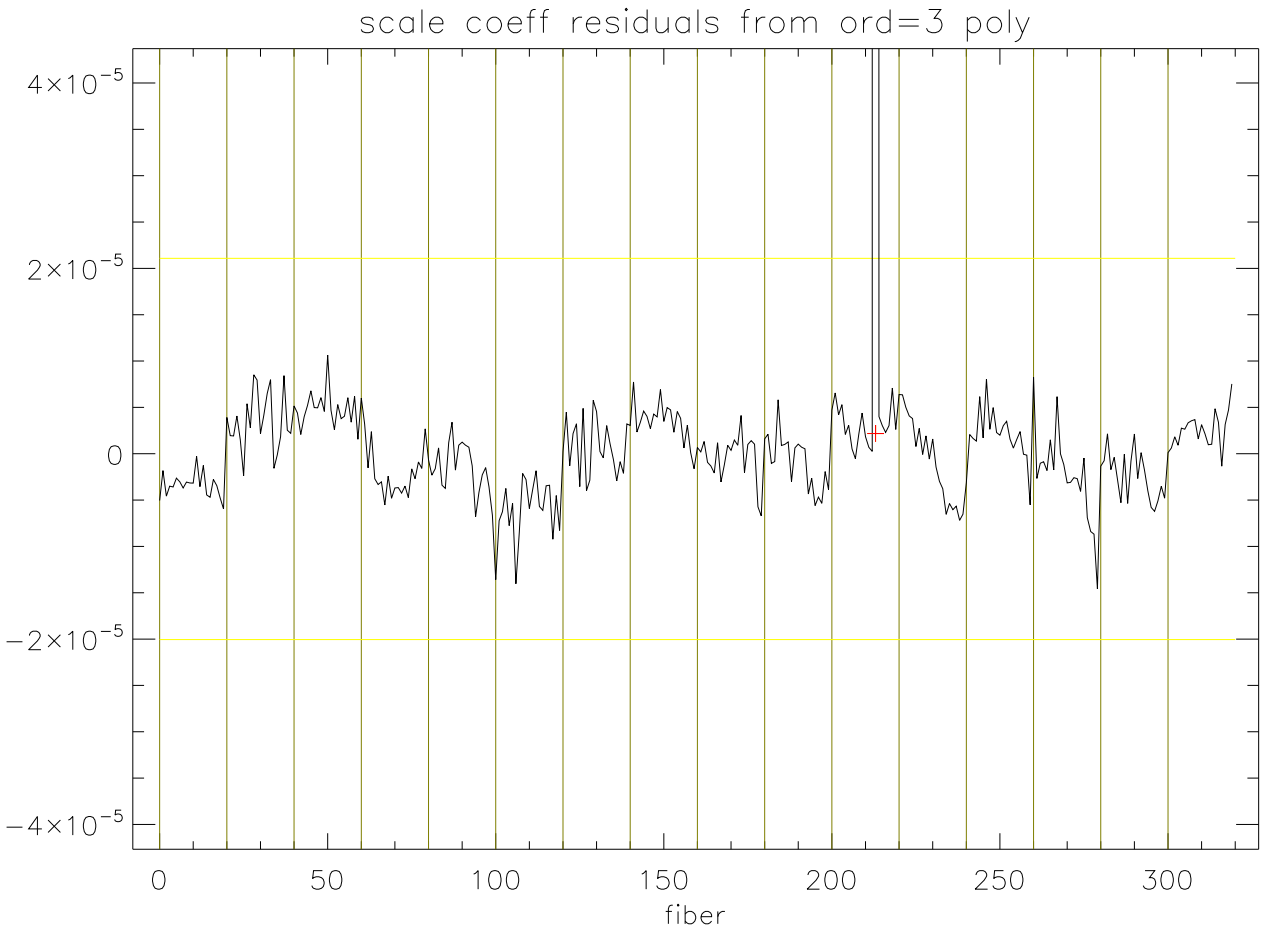

PLATE=0795 MJD=52378 sdR-b2-00014570.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.13 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

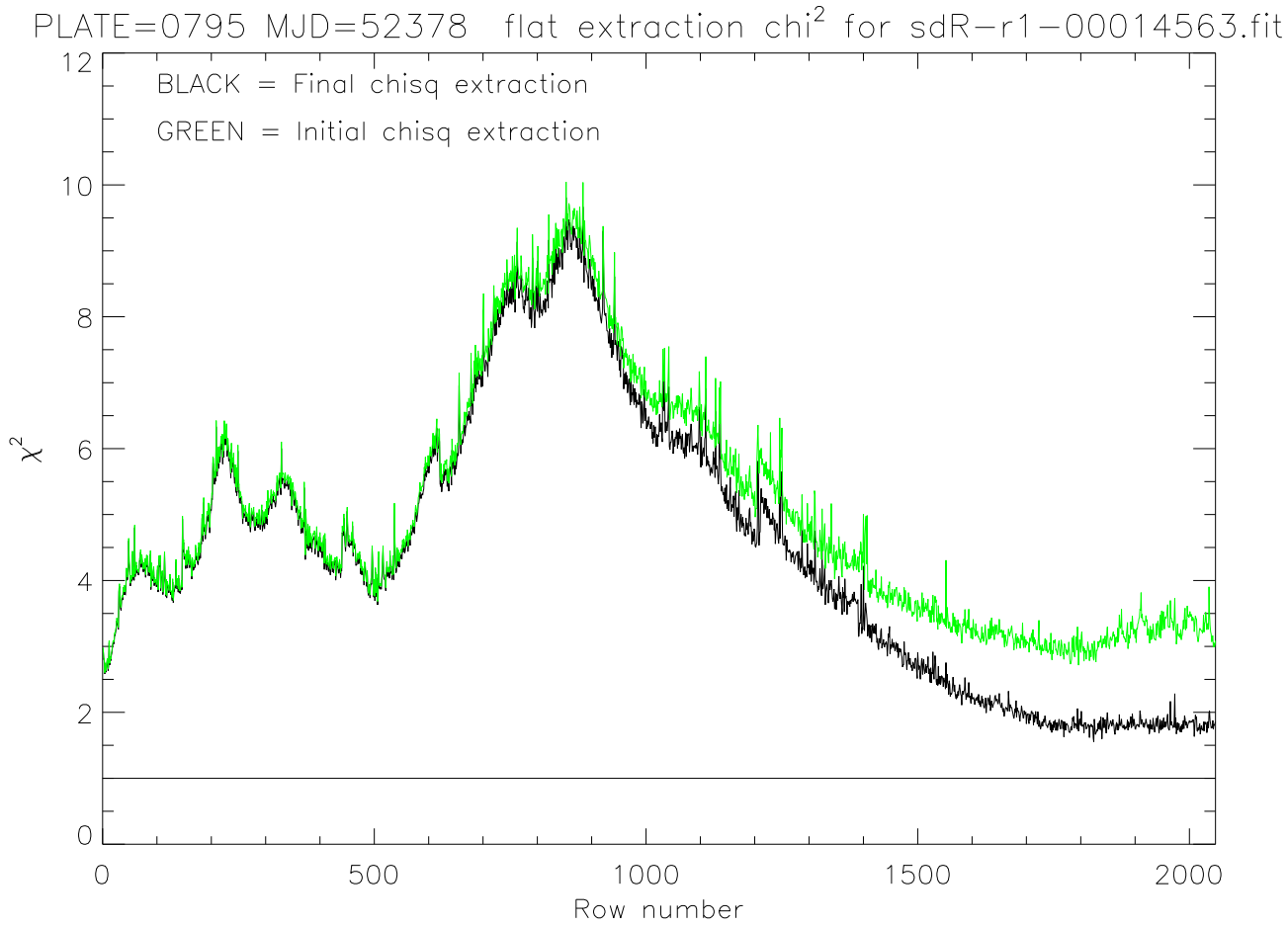

PLATE=0795 MJD=52378 sdR-b2-00014570.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.03 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

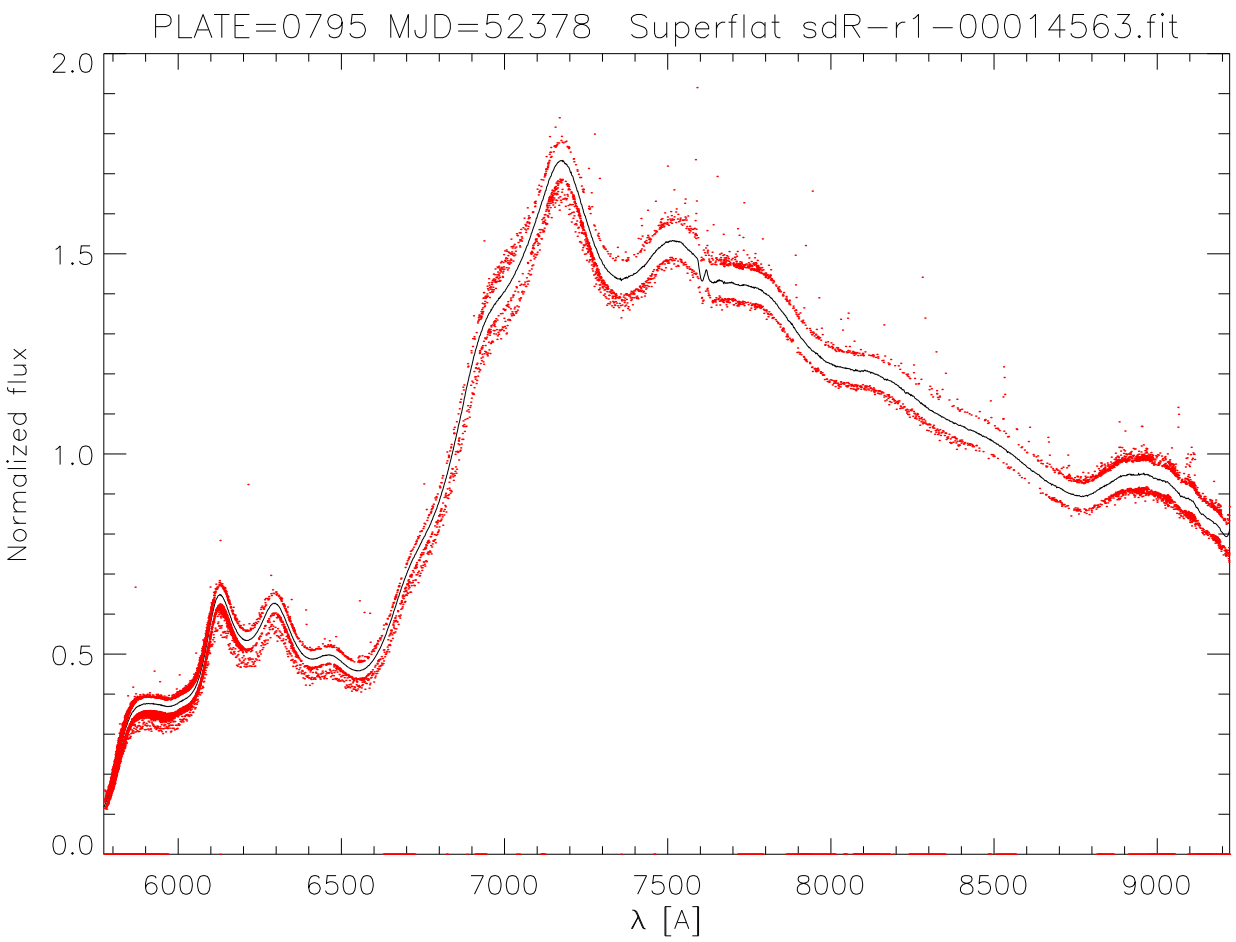

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

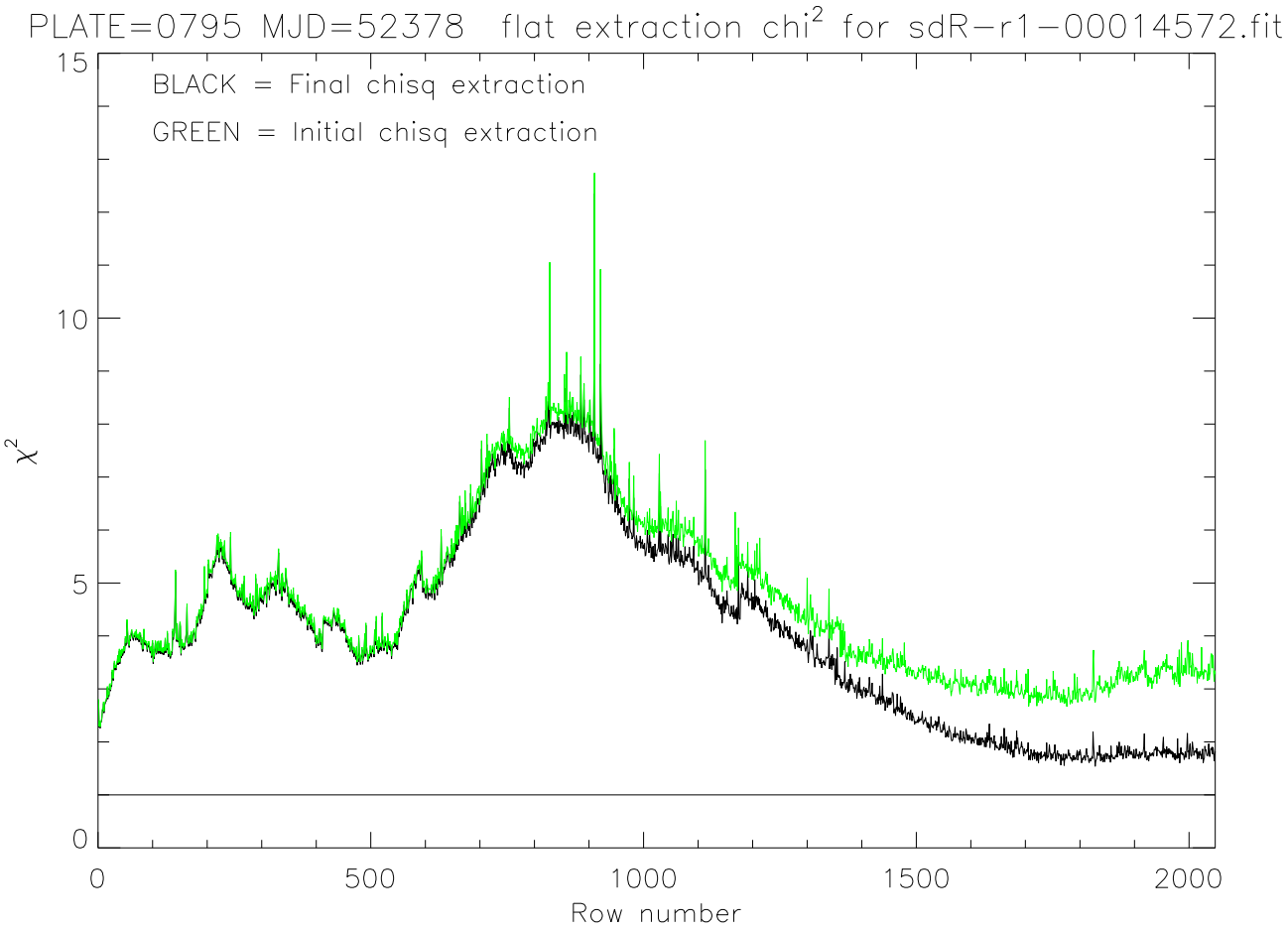

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

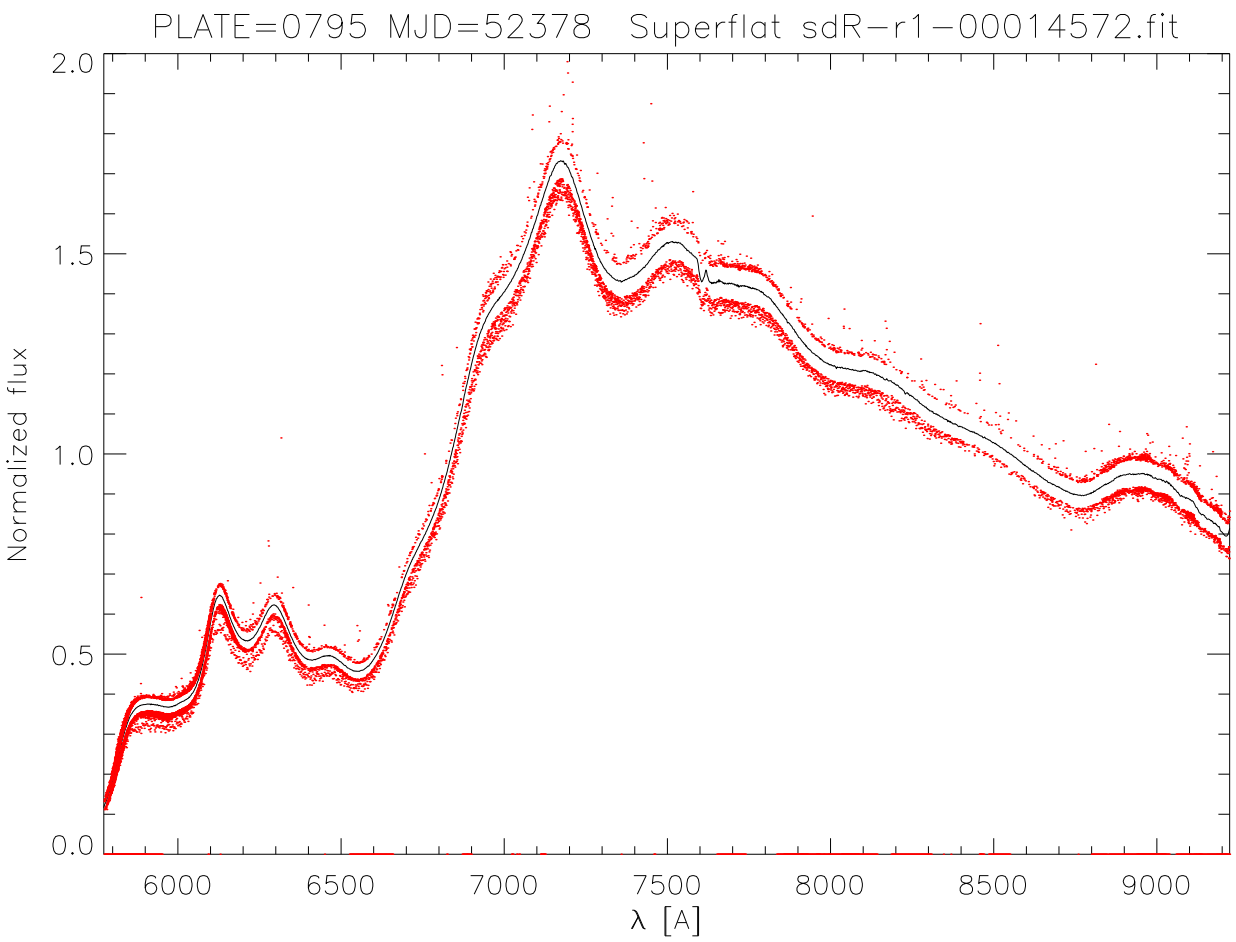

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

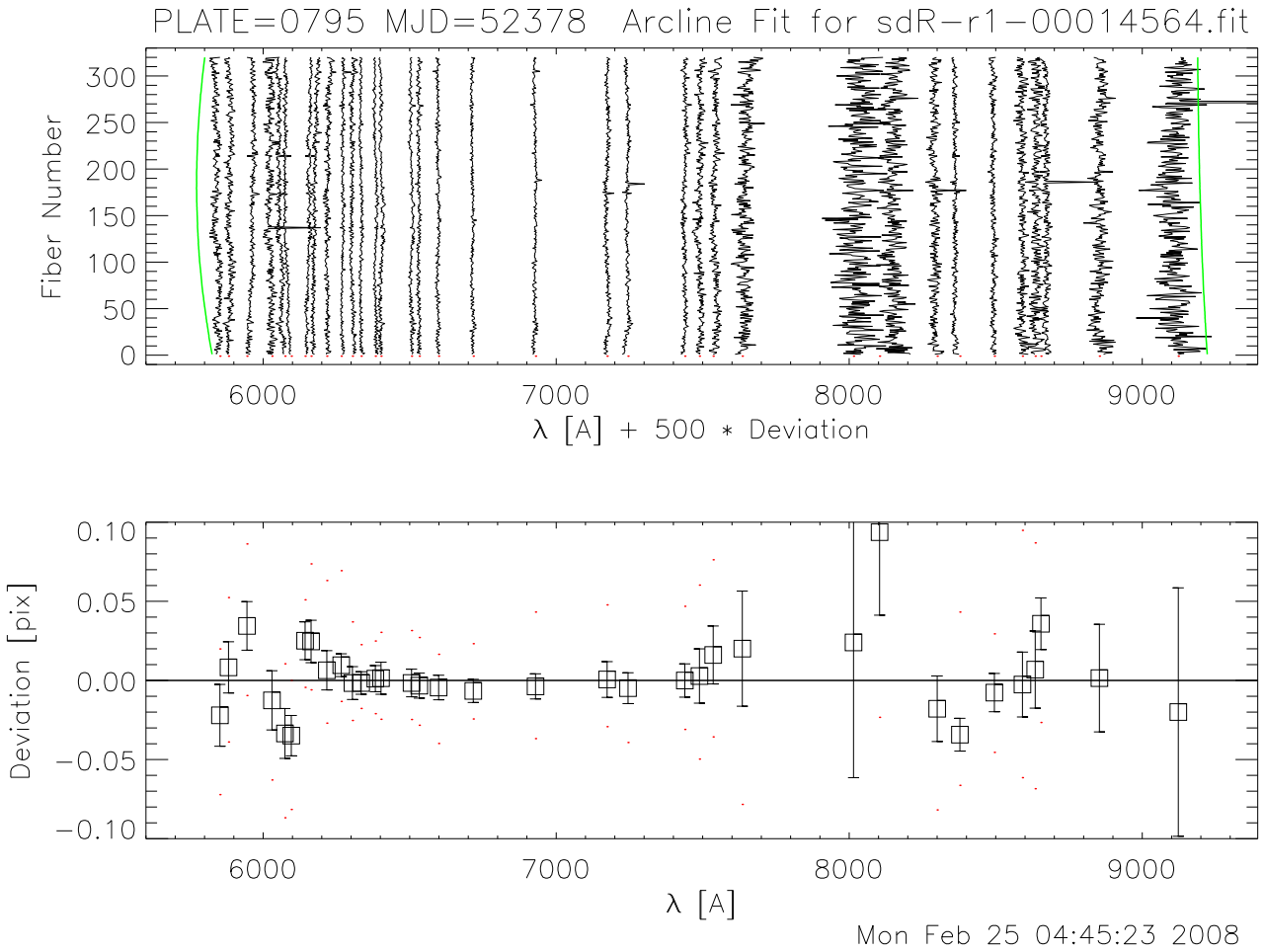

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

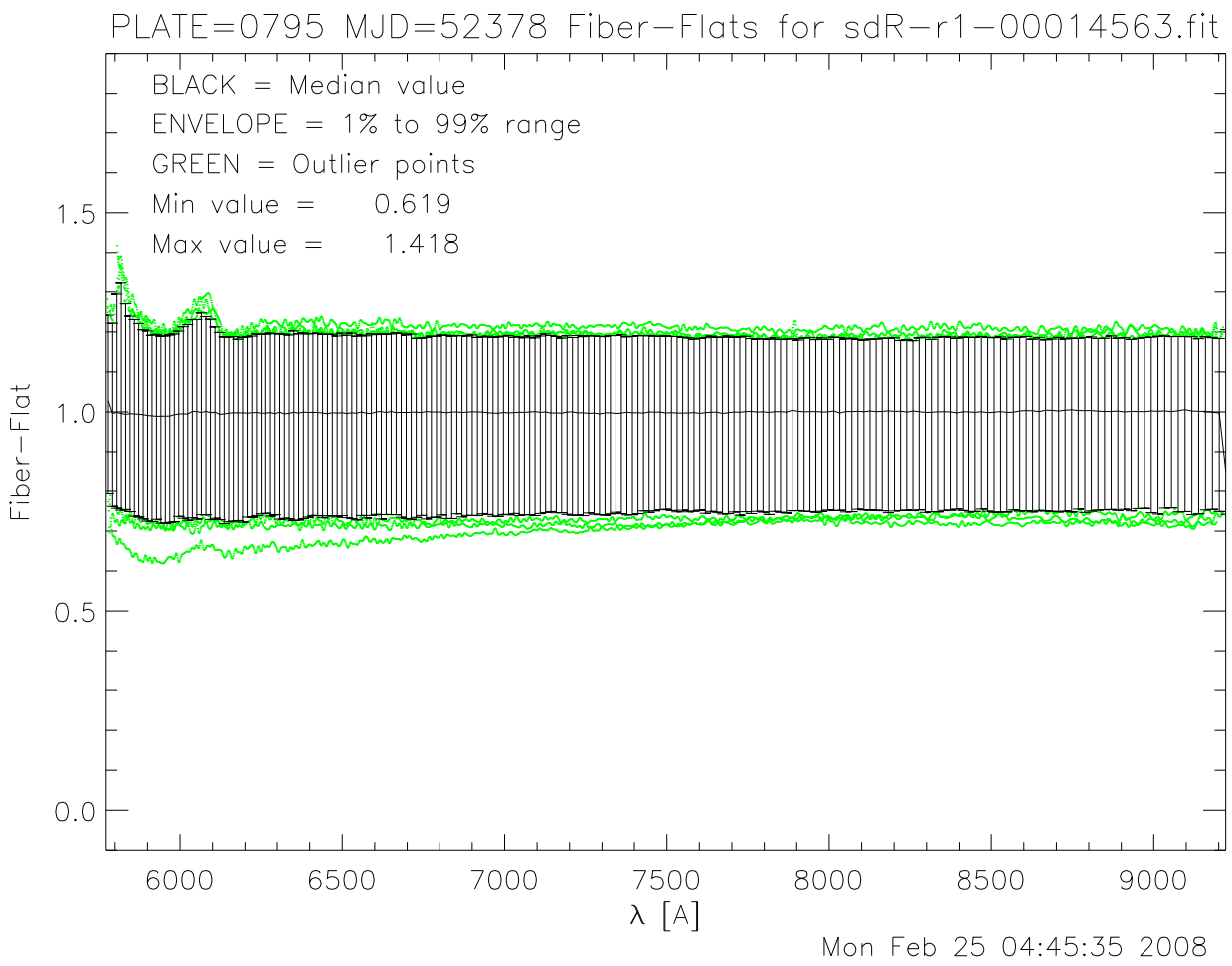

PLATE=0795 MJD=52378 flat extraction chi^2 for sdR−r1−00014563.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

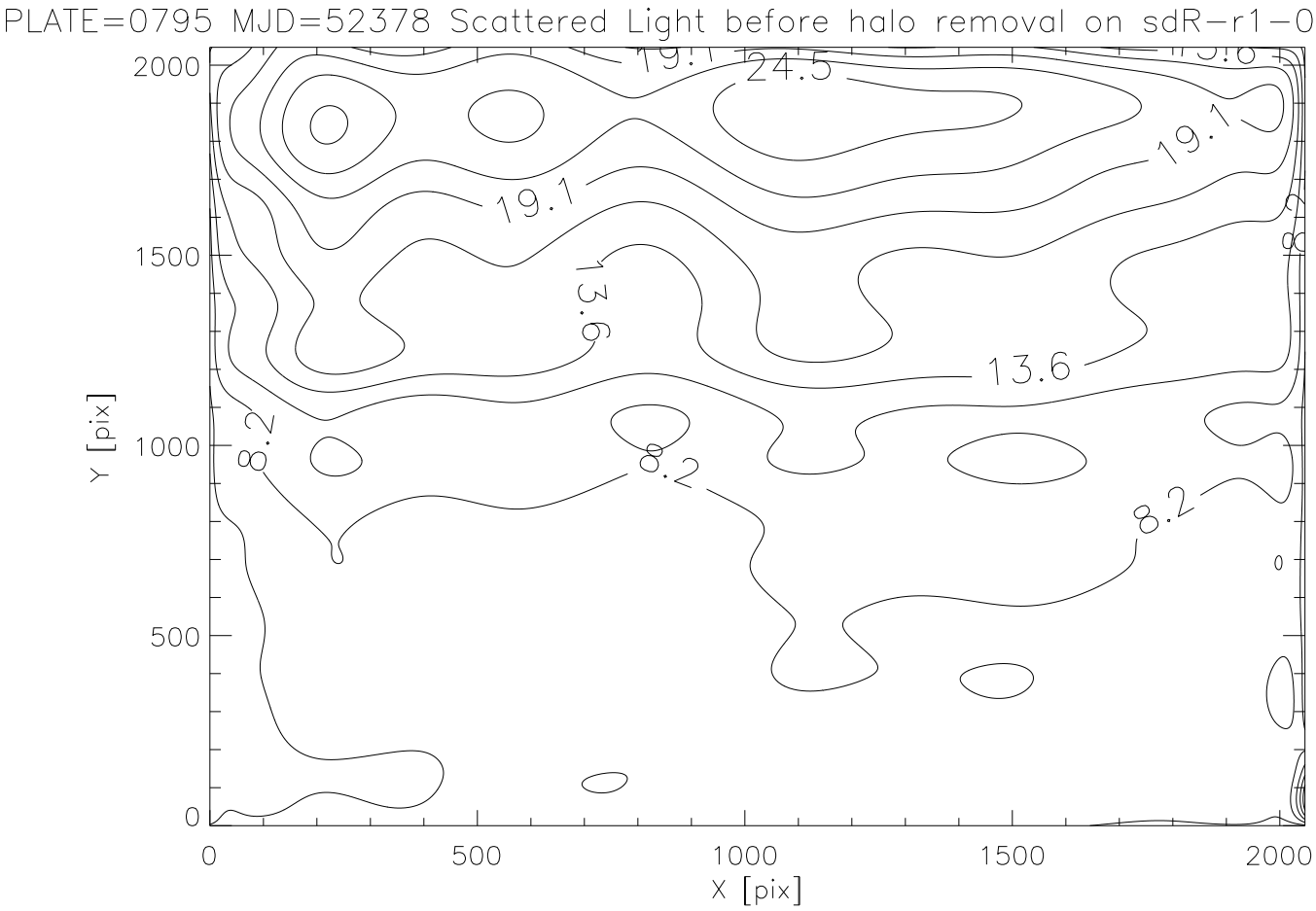

PLATE=0795 MJD=52378 Superflat sdR-r1-00014563.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

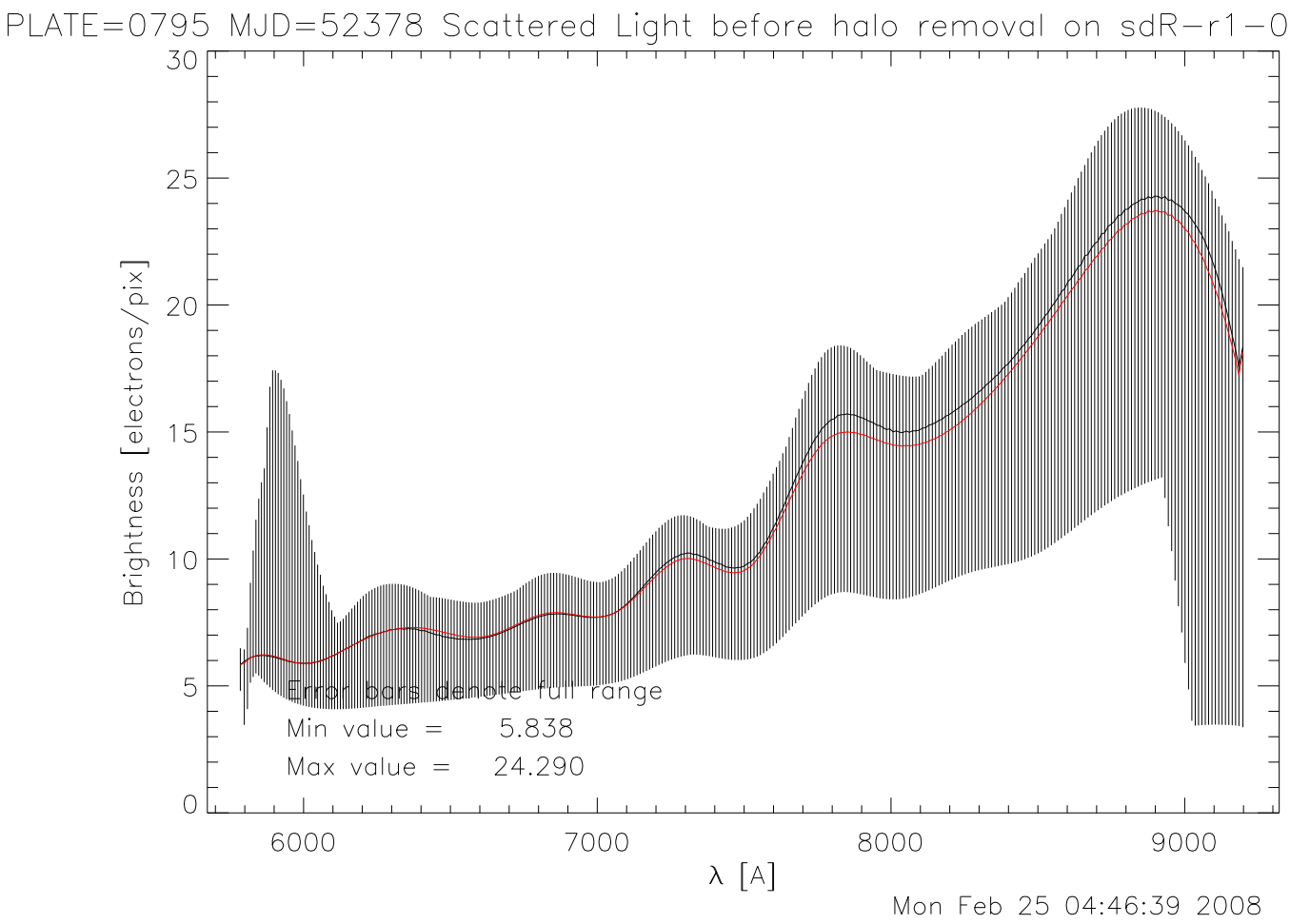

PLATE=0795 MJD=52378 flat extraction chi^2 for sdR−r1−00014572.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

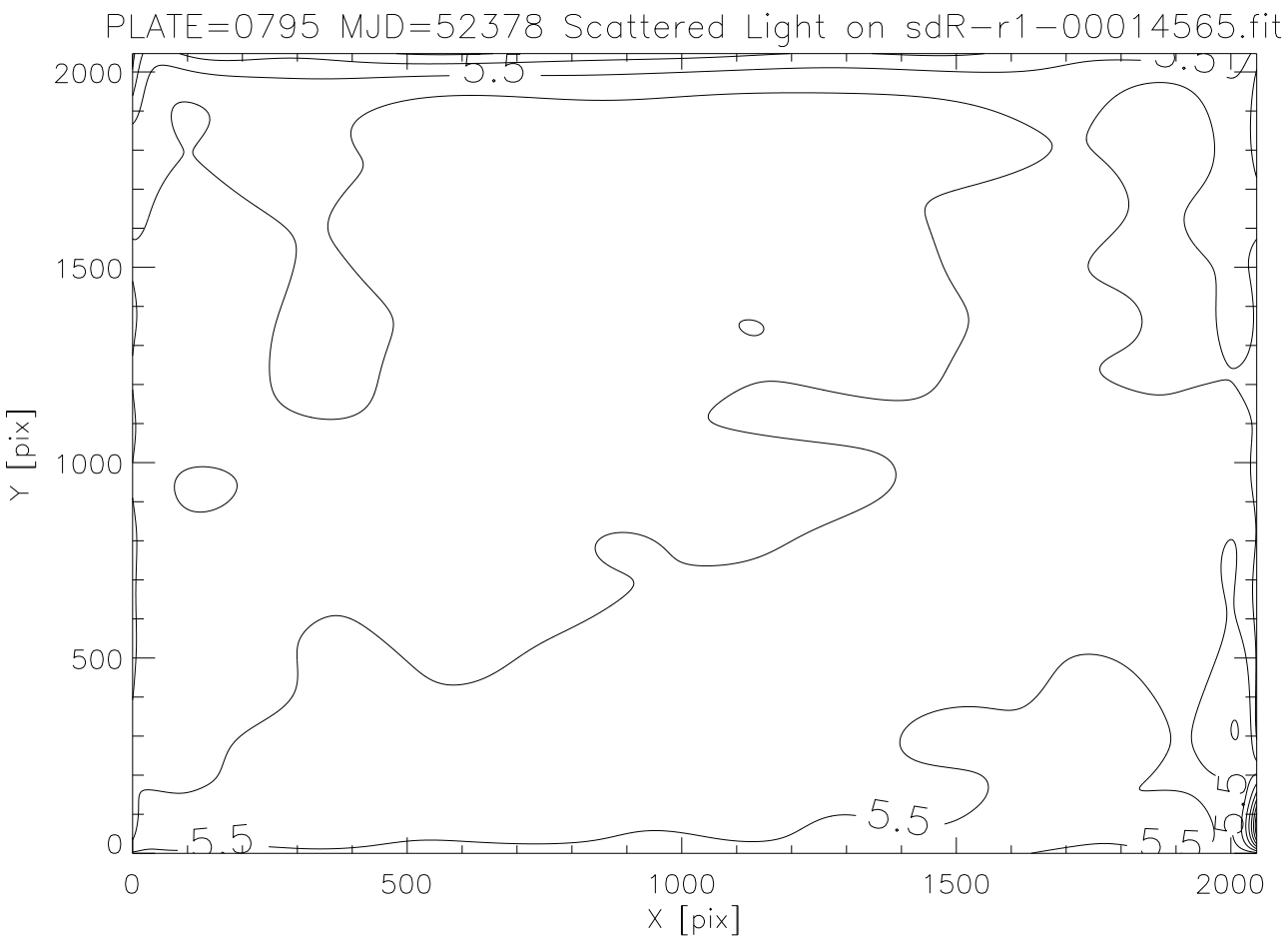

PLATE=0795 MJD=52378 Superflat sdR-r1-00014572.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

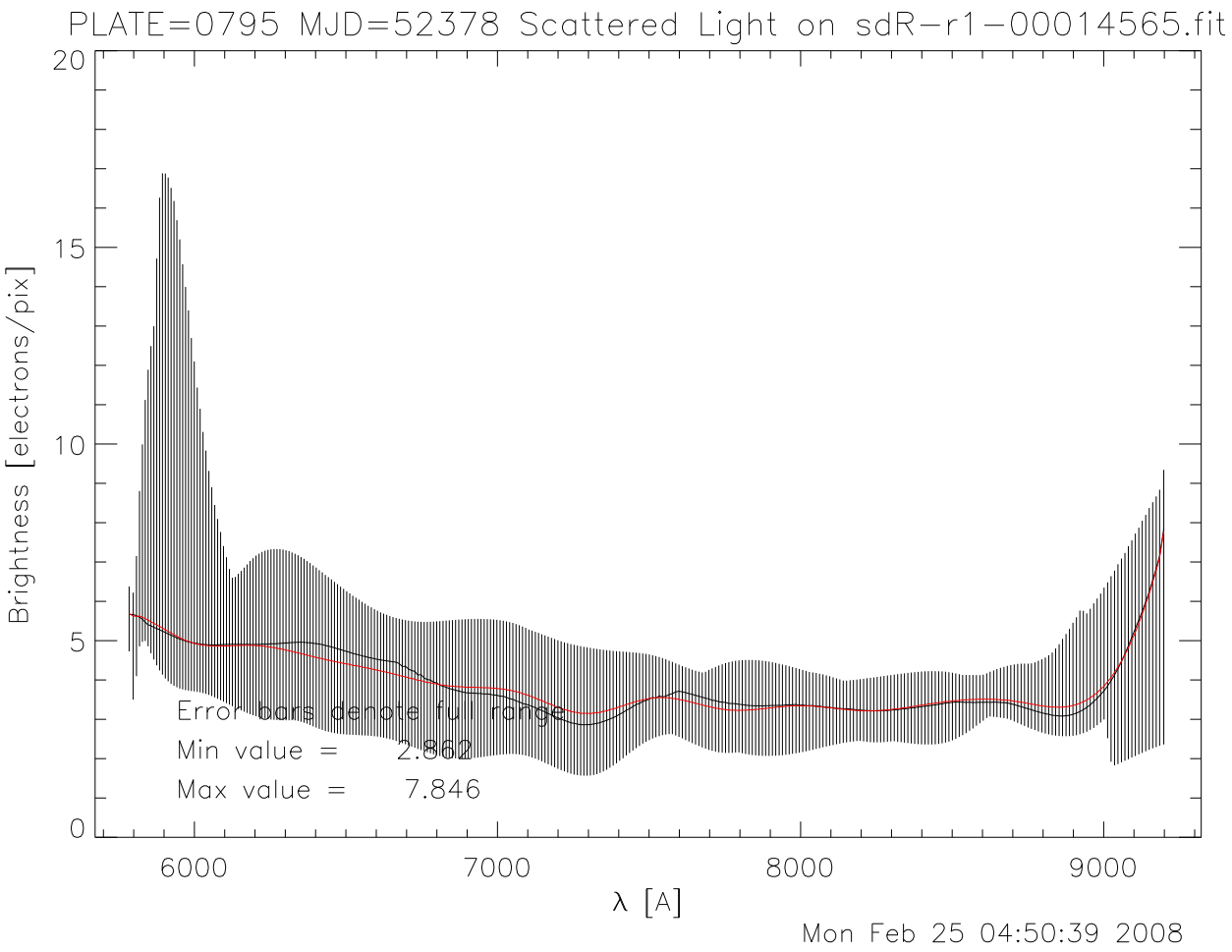

PLATE=0795 MJD=52378 Arcline Fit for sdR-r1-00014564.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 04:45:23 2008

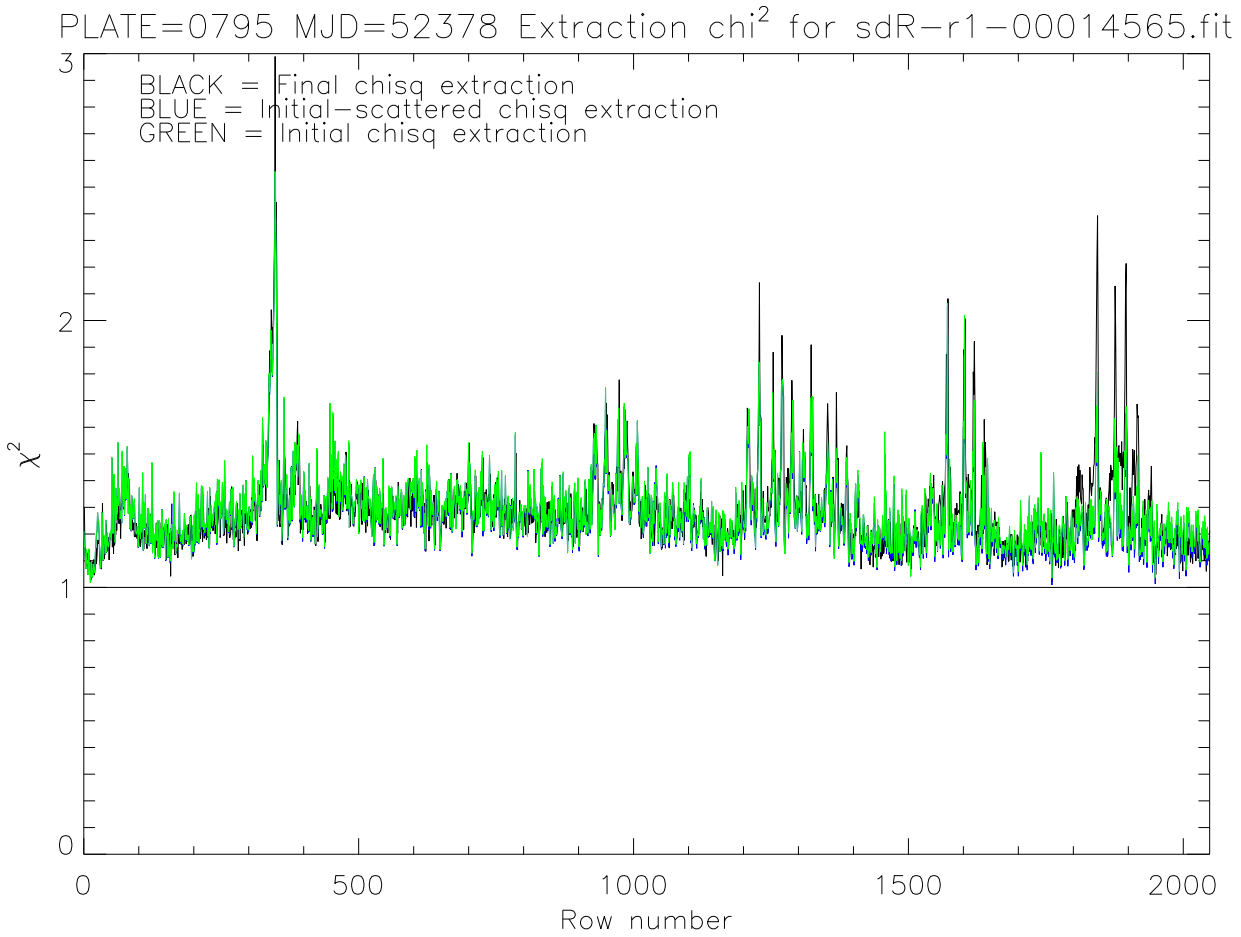

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.619
Max value = 1.418
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 04:45:35 2008

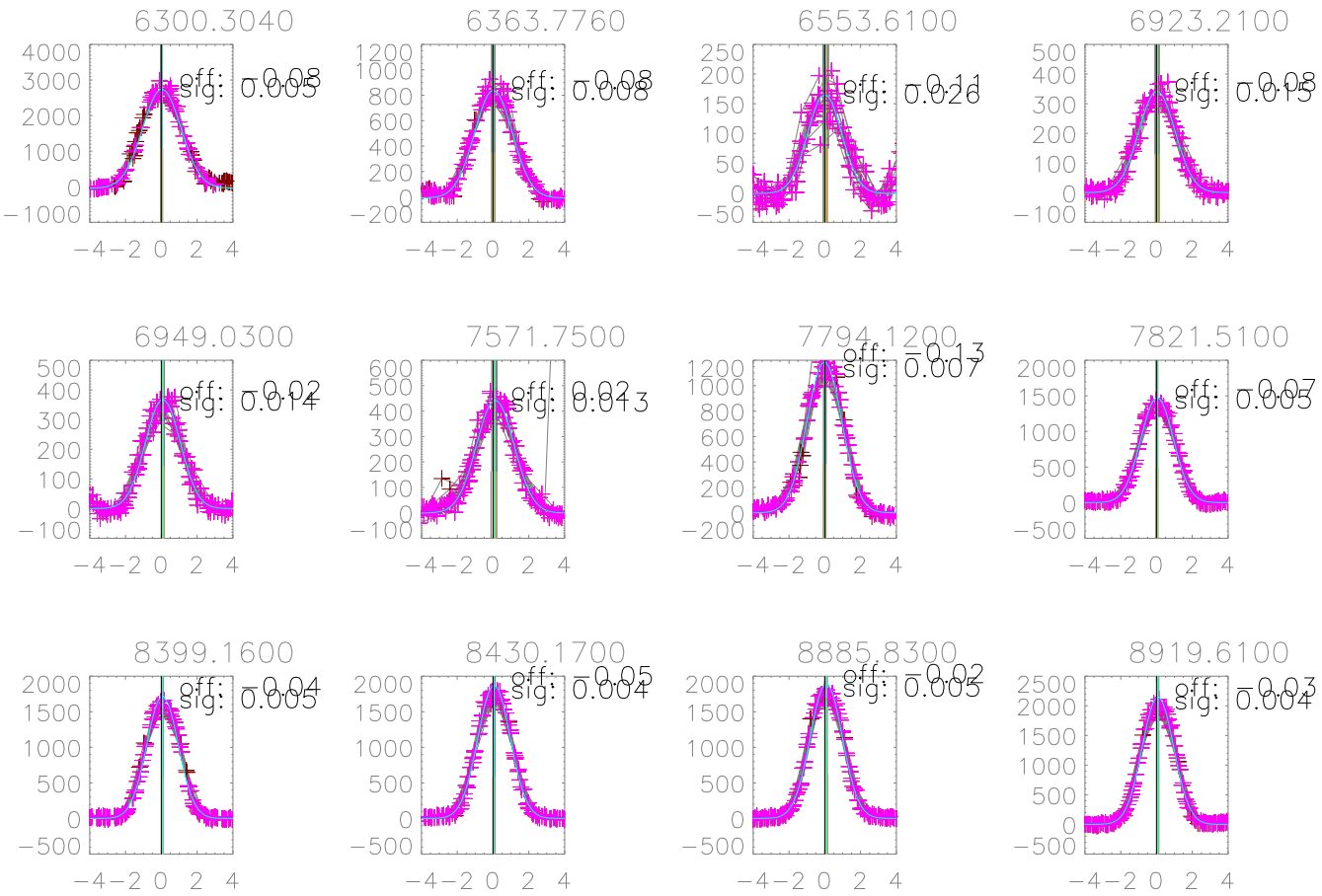

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−r1−00014565.fi
24.5
19.1
19.1
13.6
13.6
8.2
8.2
8.2
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

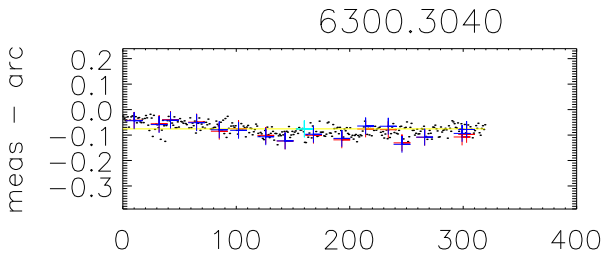

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014565.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.838
Max value = 24.290
Mon Feb 25 04:46:39 2008

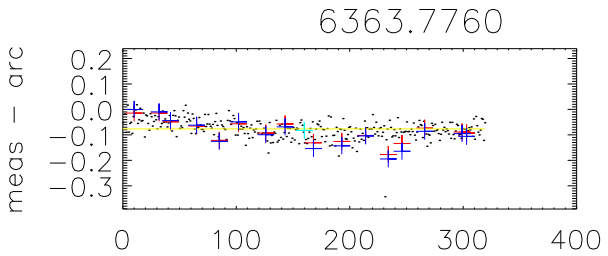

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014565.fit
5.5
5.5
5.5
5.5
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

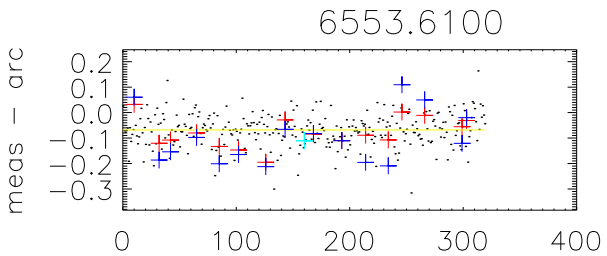

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014565.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.862
Max value = 7.846
Mon Feb 25 04:50:39 2008

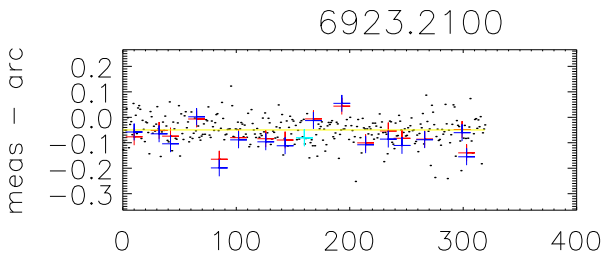

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r1−00014565.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3
2
1
0
0
500
1000
1500
2000
Row number

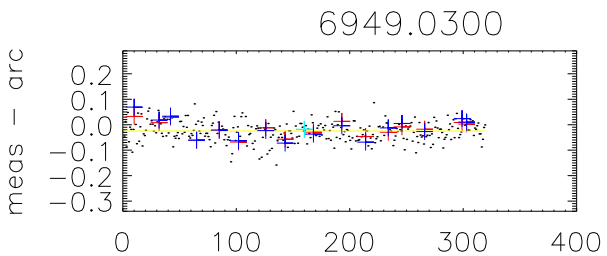

6300.3040
off: −0.08
sig: 0.005
6363.7760
off: −0.08
sig: 0.008
6553.6100
off: −0.11
sig: 0.026
6923.2100
off: −0.08
sig: 0.015
6949.0300
off: −0.02
sig: 0.014
7571.7500
off: 0.02
sig: 0.013
7794.1200
off: −0.13
sig: 0.007
7821.5100
off: −0.07
sig: 0.005
8399.1600
off: −0.04
sig: 0.005
8430.1700
off: −0.05
sig: 0.004
8885.8300
off: −0.02
sig: 0.005
8919.6100
off: −0.03
sig: 0.004

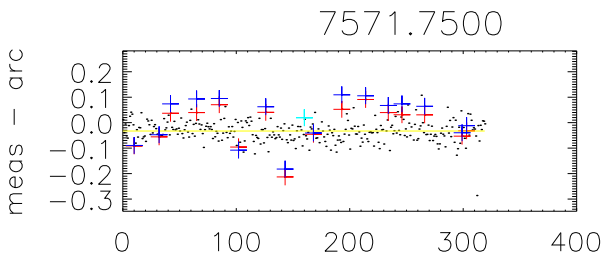

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

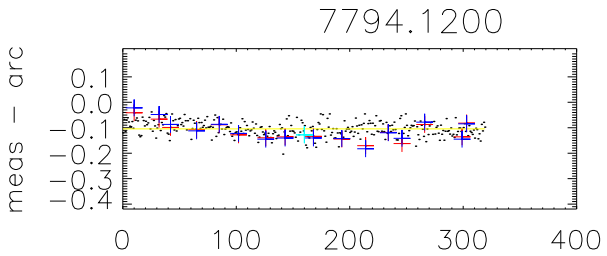

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

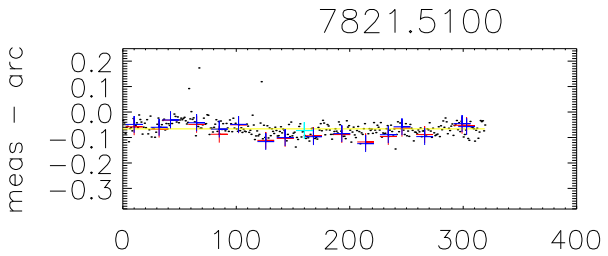

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

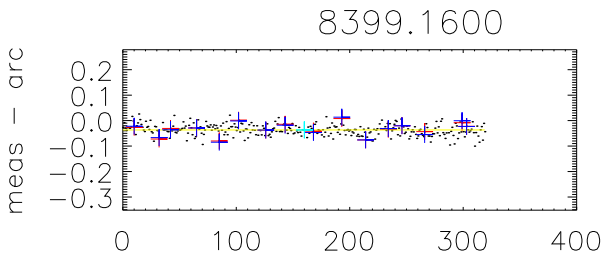

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

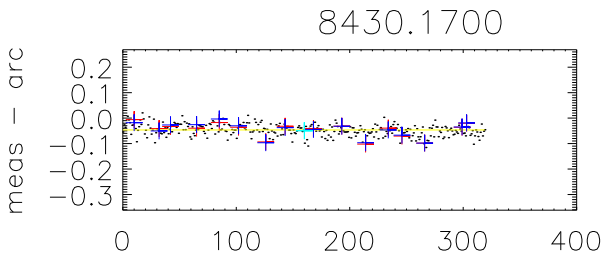

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

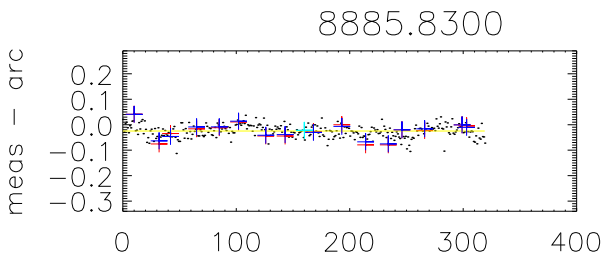

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

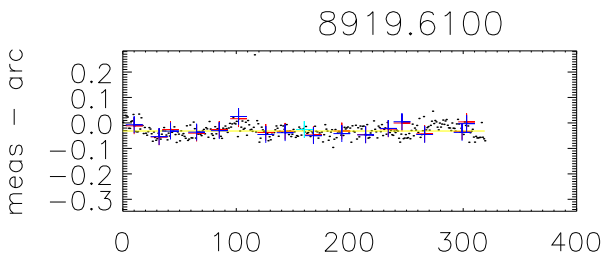

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

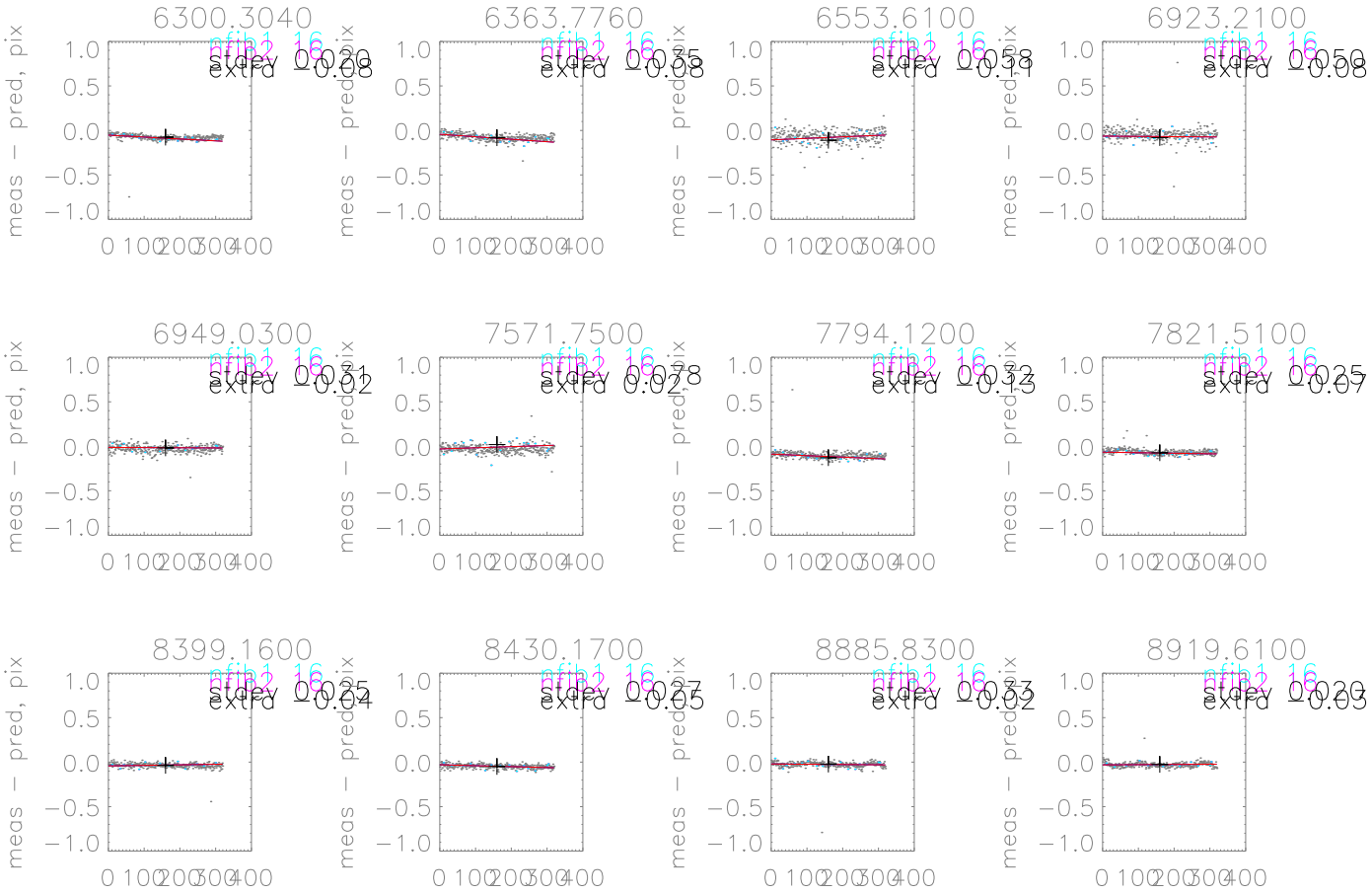

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

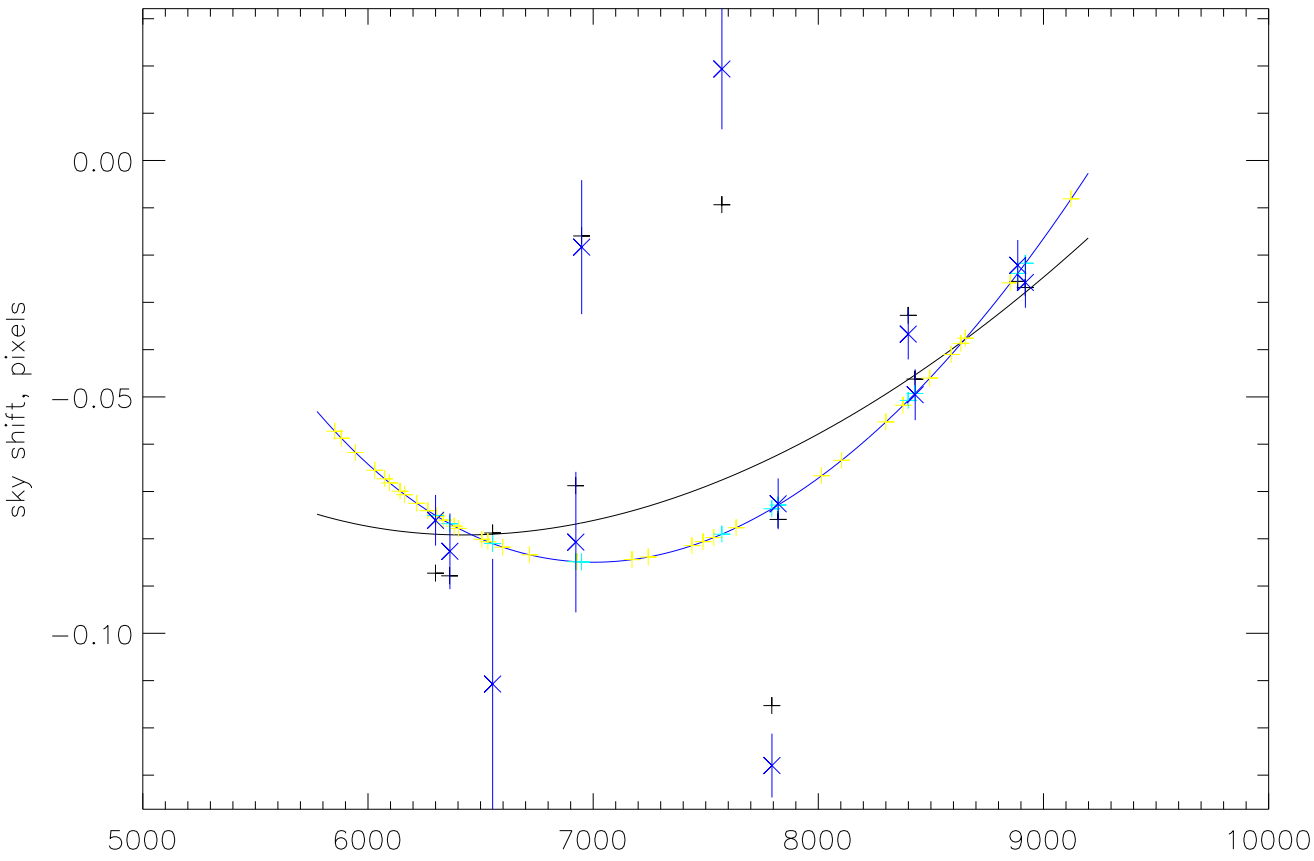

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

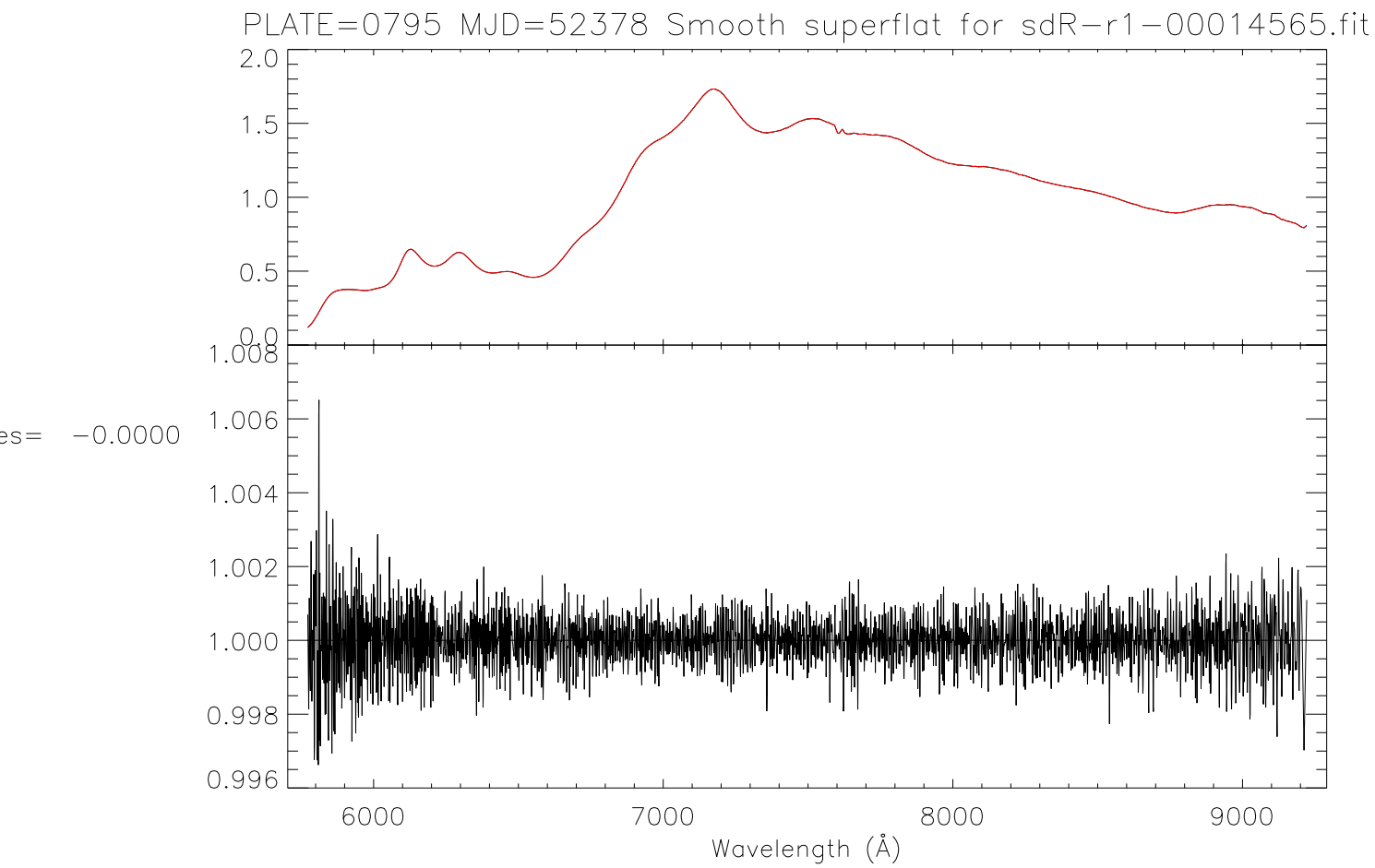

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

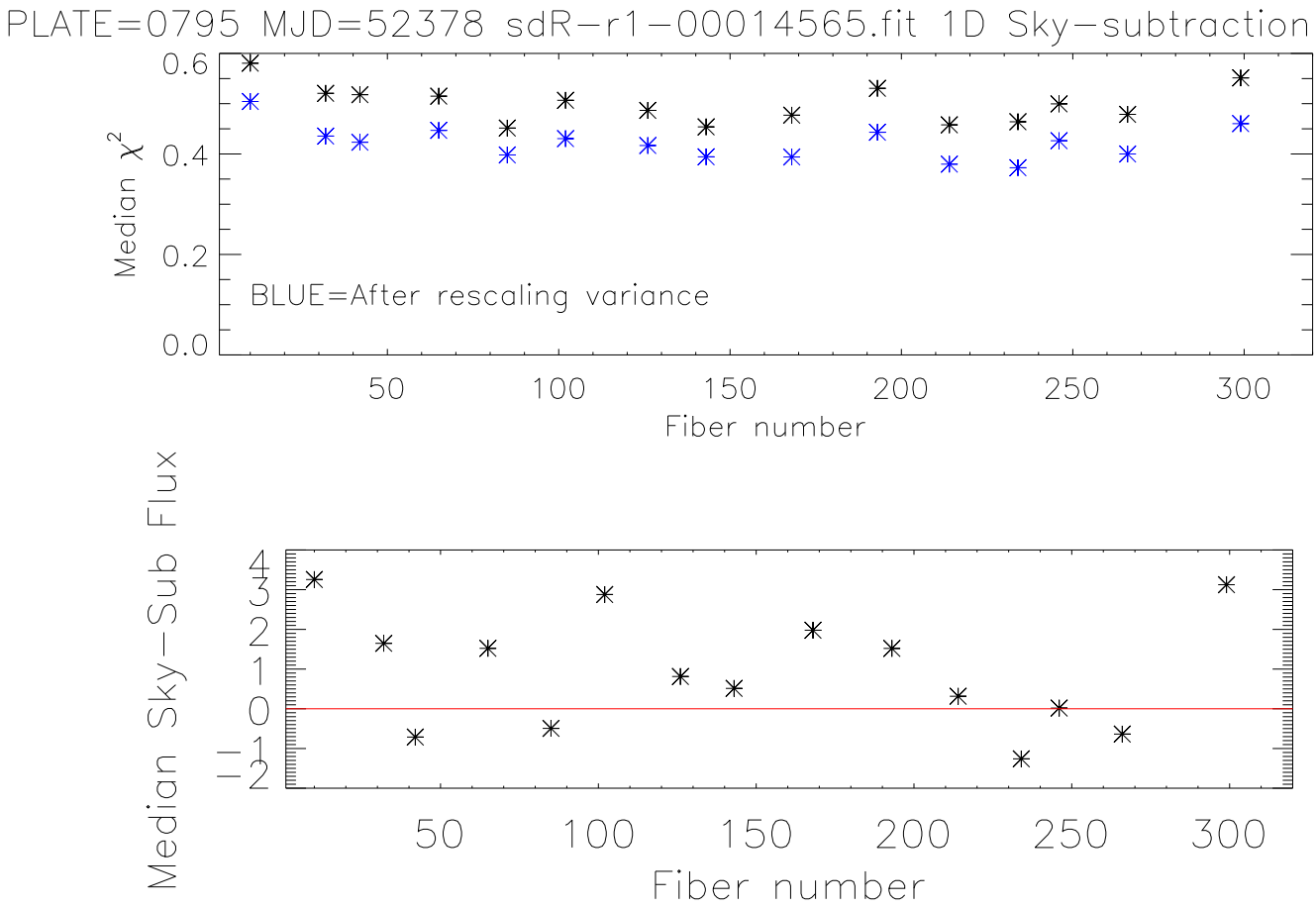

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

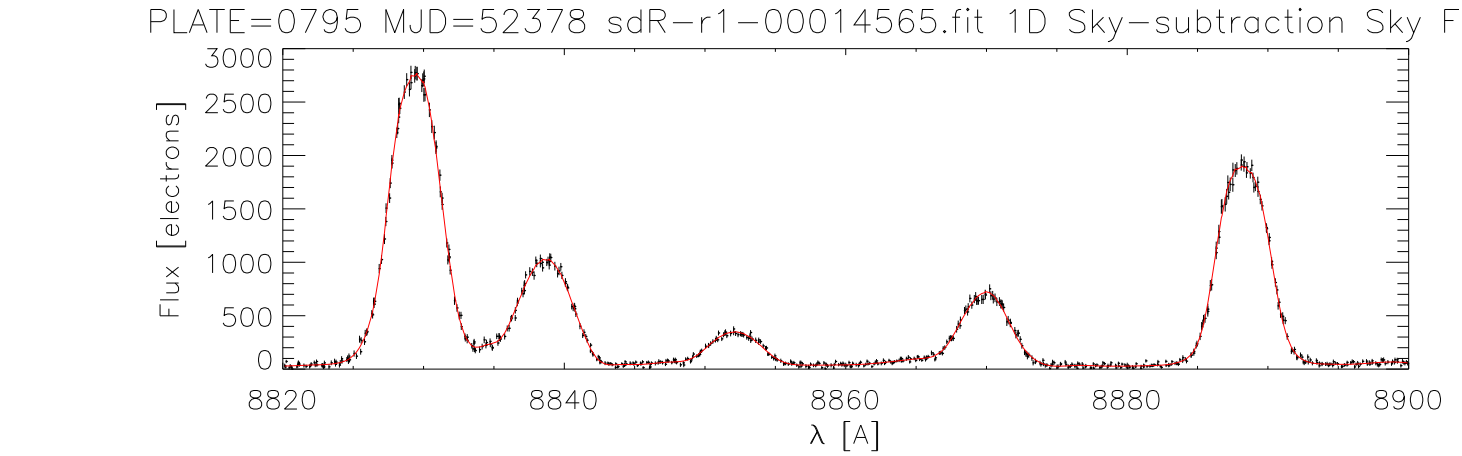

6300.3040
stdev 0.020
extra 0.008
6363.7760
stdev 0.035
extra 0.008
6553.6100
stdev 0.058
extra 0.011
6923.2100
stdev 0.050
extra 0.008
6949.0300
stdev 0.031
extra 0.002
7571.7500
stdev 0.078
extra 0.027
7794.1200
stdev 0.032
extra 0.013
7821.5100
stdev 0.025
extra 0.007
8399.1600
stdev 0.025
extra 0.004
8430.1700
stdev 0.027
extra 0.005
8885.8300
stdev 0.033
extra 0.002
8919.6100
stdev 0.020
extra 0.003
meas − pred, pix
mfhs2 16

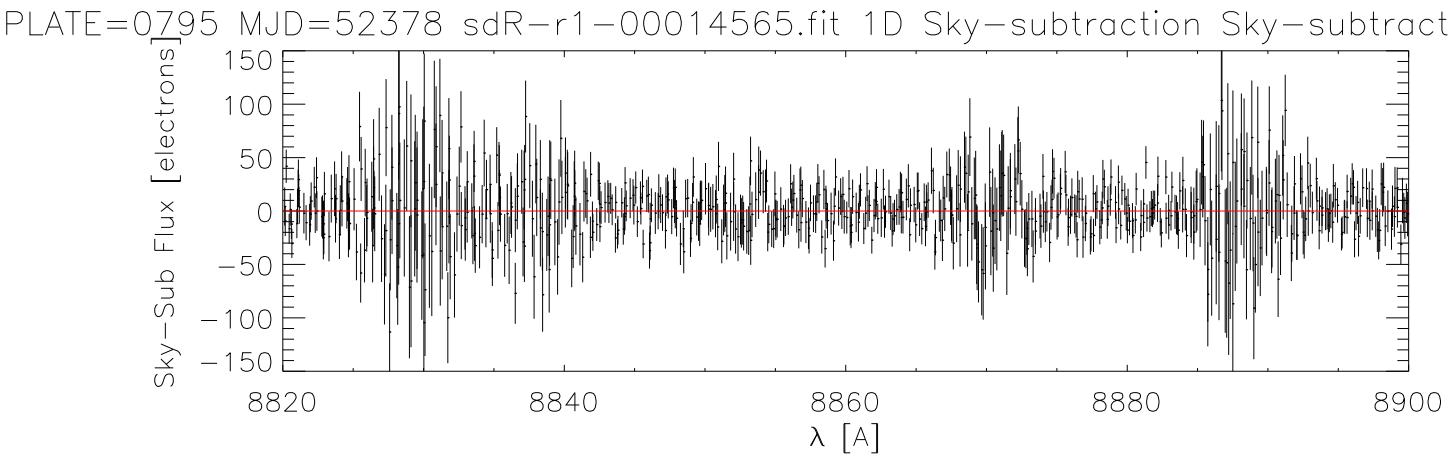

0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

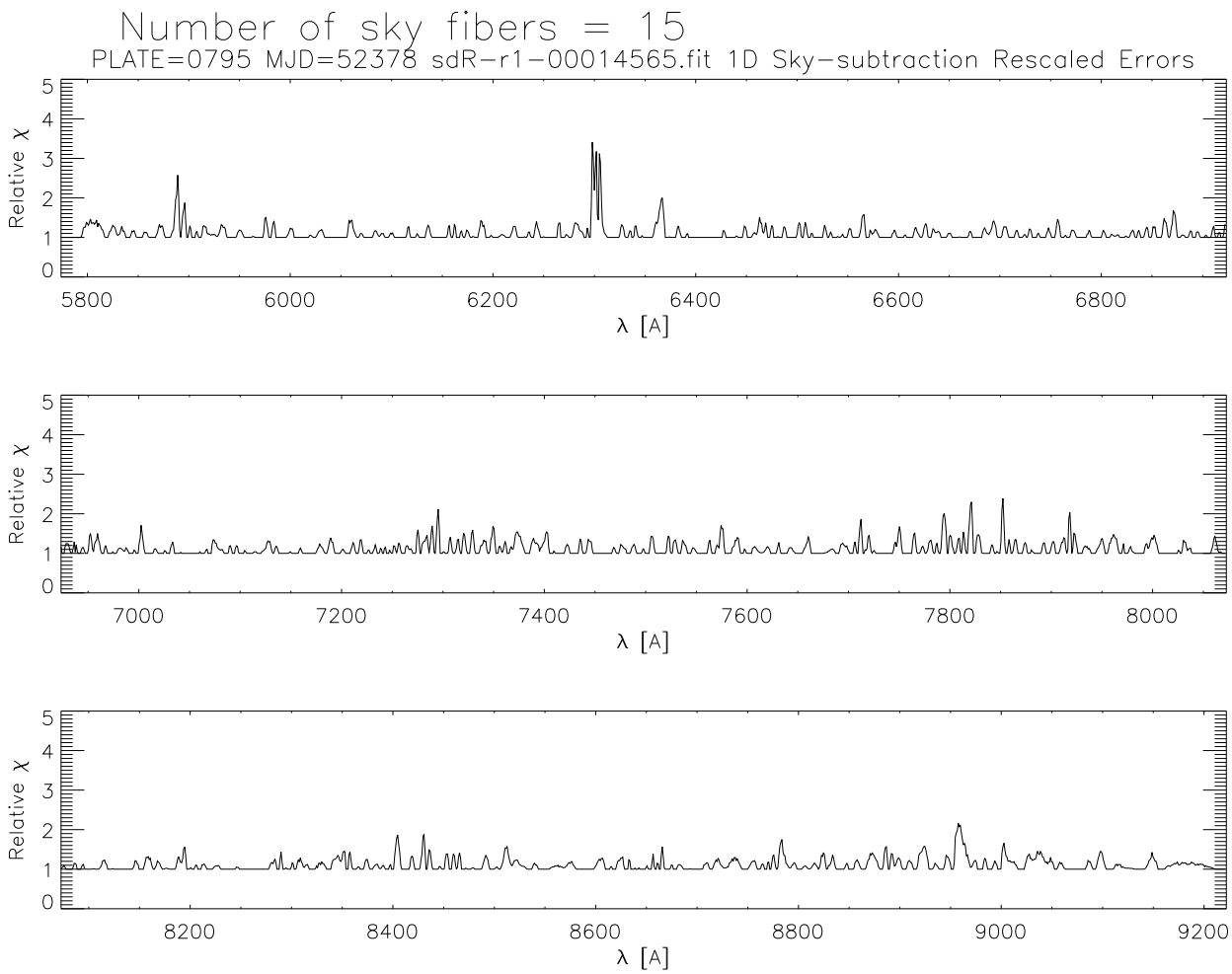

PLATE=0795 MJD=52378 Smooth superflat for sdR-r1-00014565.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

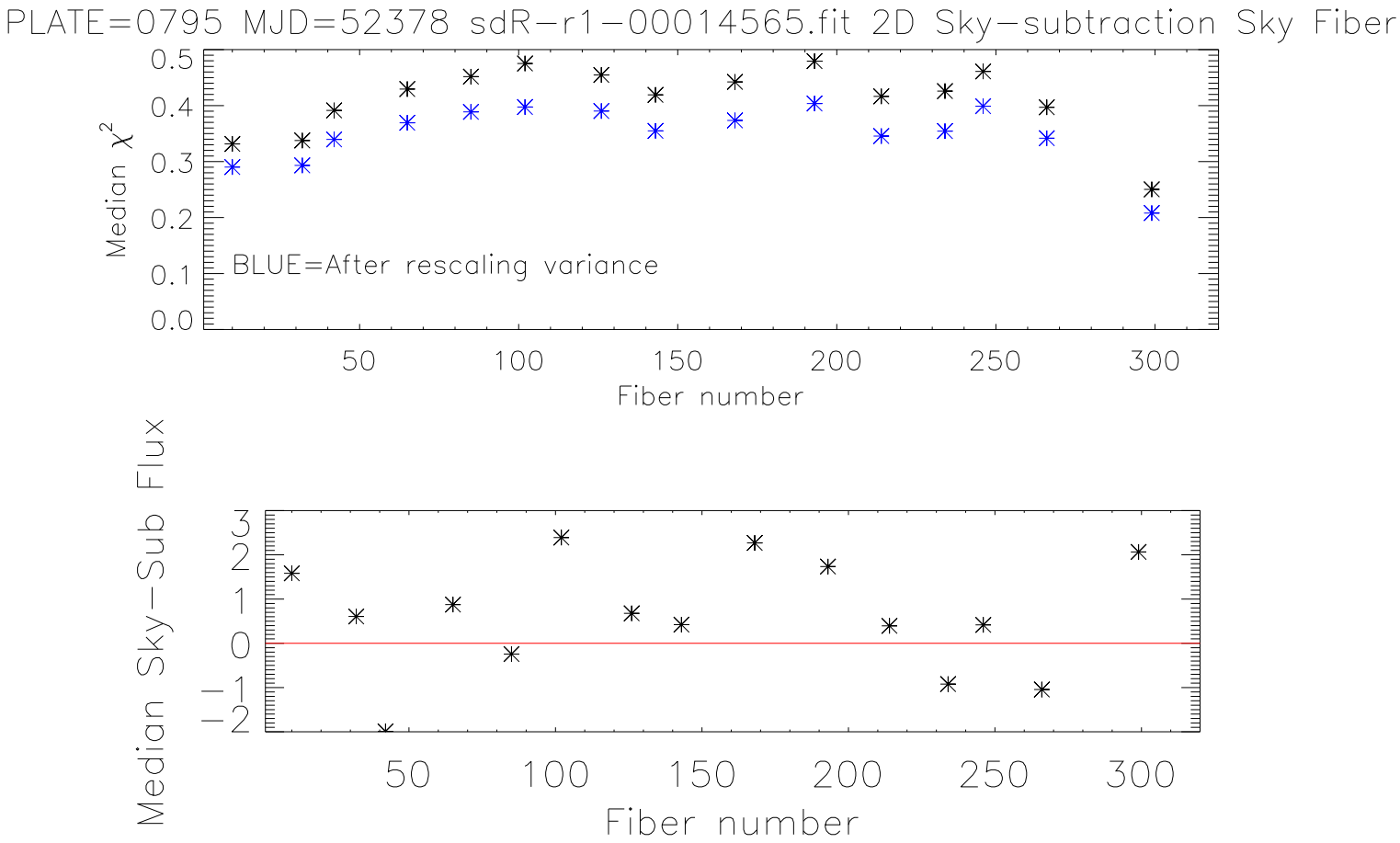
es= −0.0000

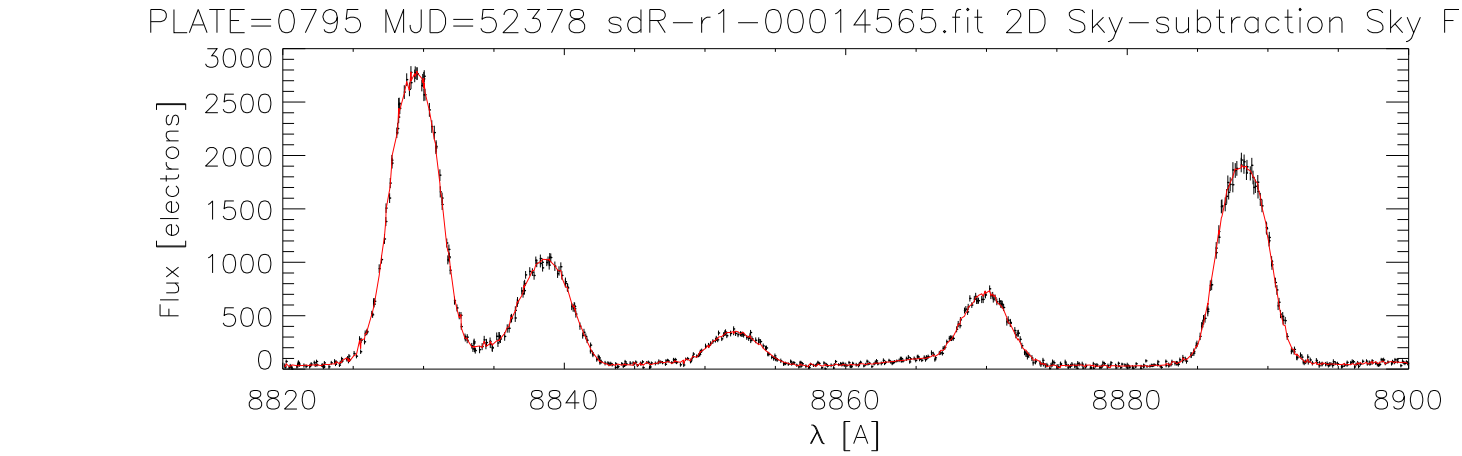

PLATE=0795 MJD=52378 sdR-r1-00014565.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

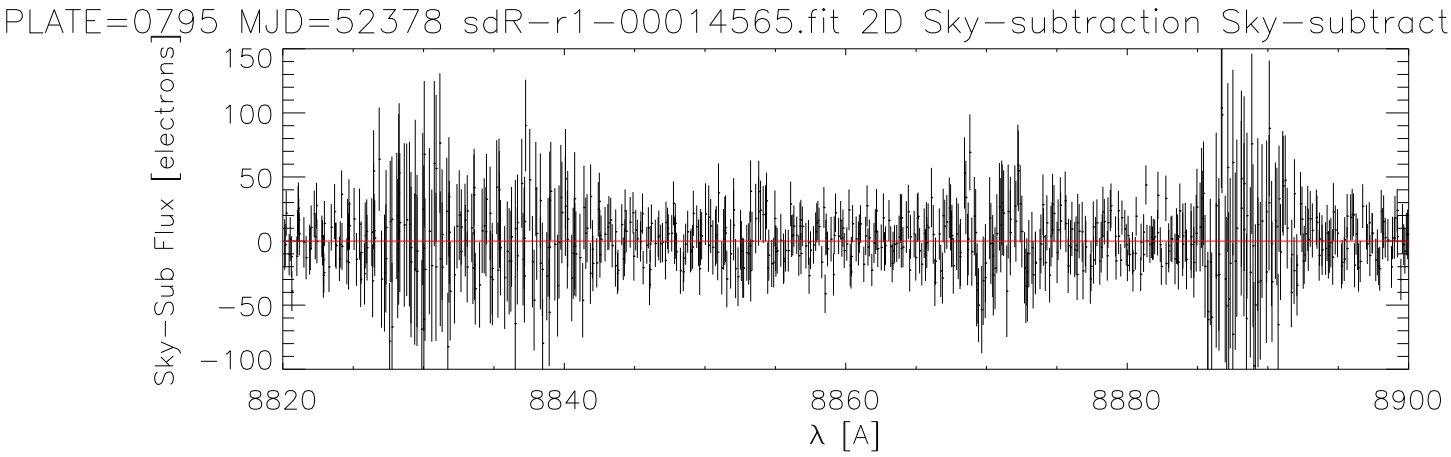

PLATE=0795 MJD=52378 sdR-r1-00014565.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

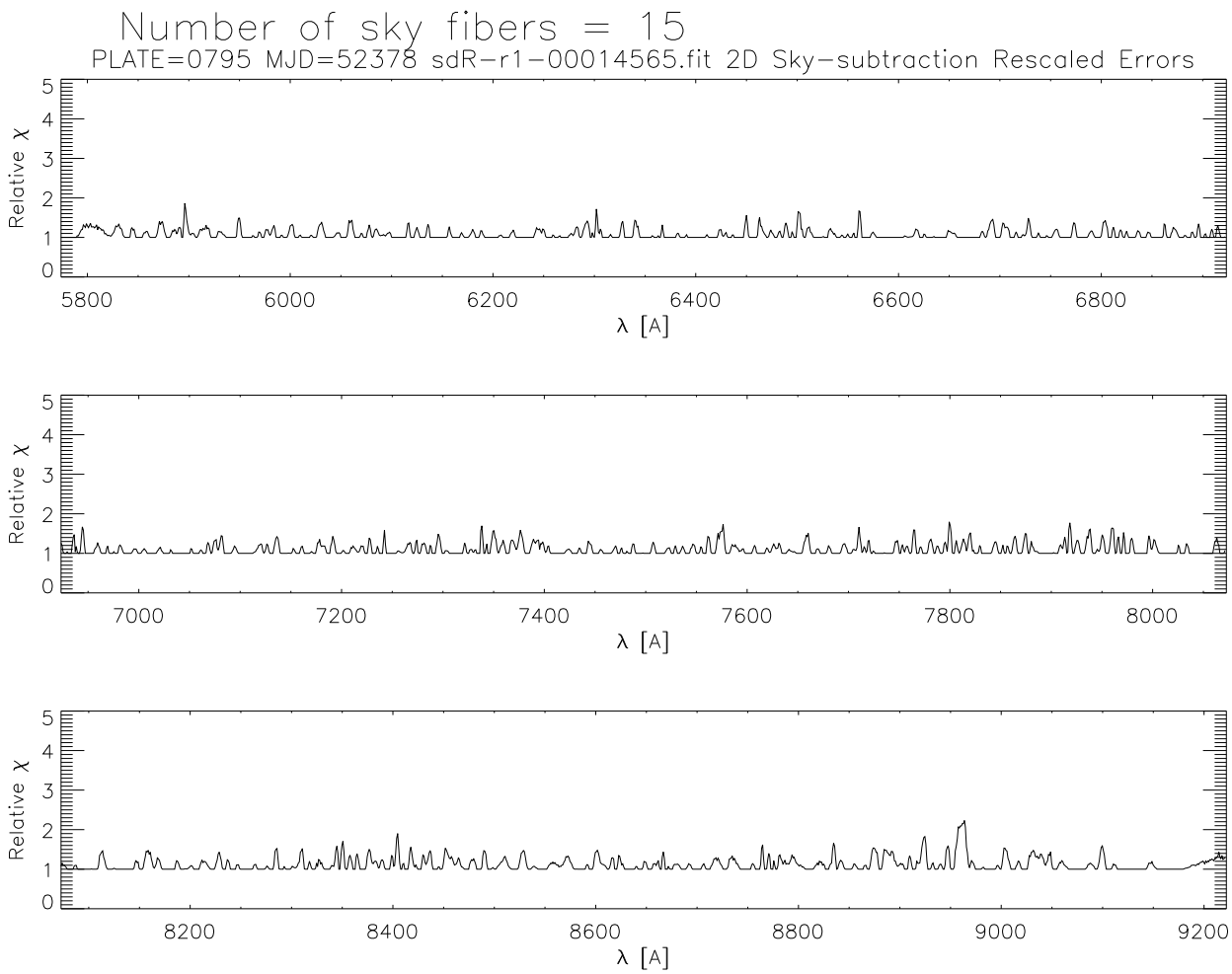

PLATE=0795 MJD=52378 sdR-r1-00014565.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

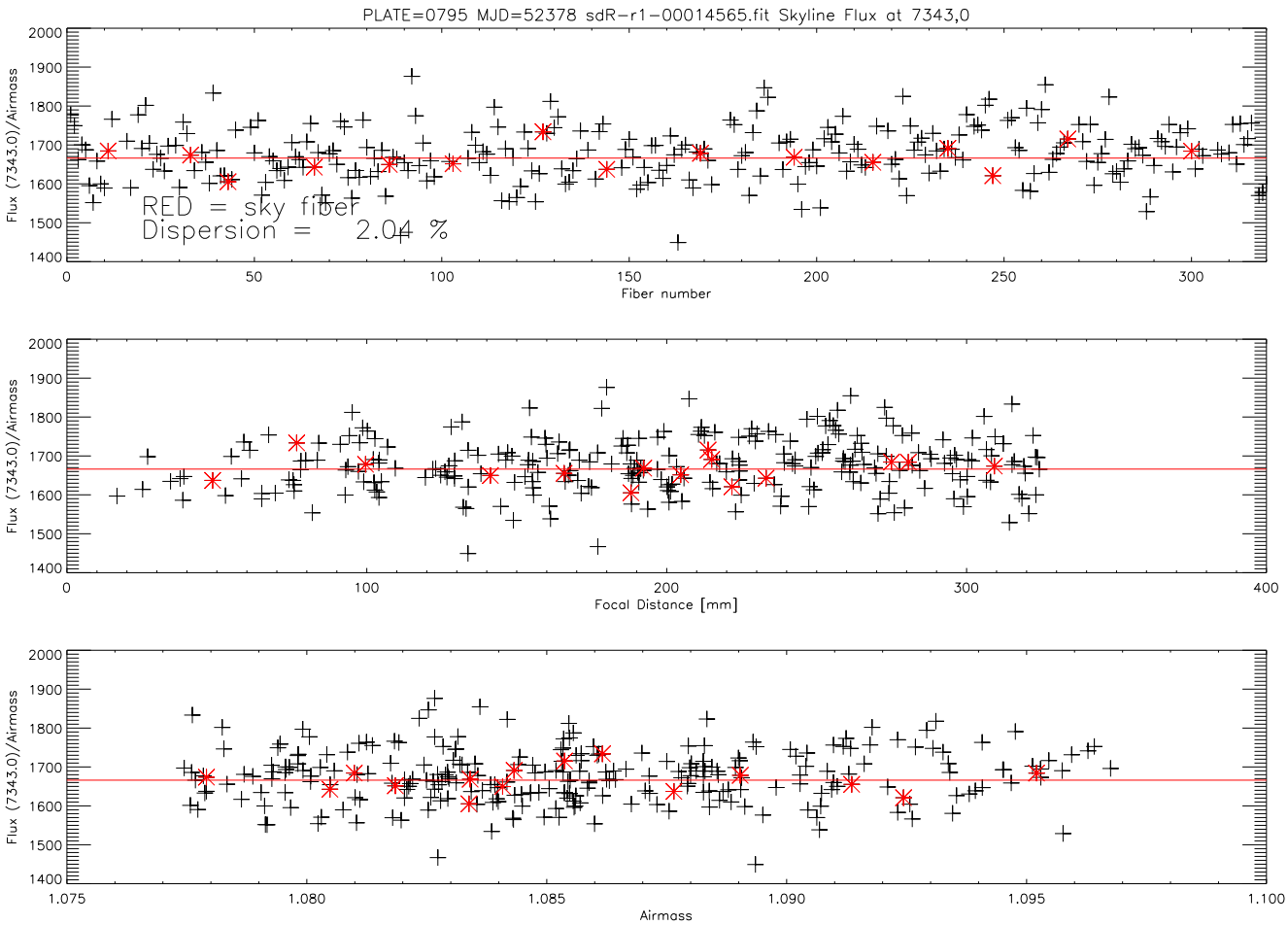

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014565.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

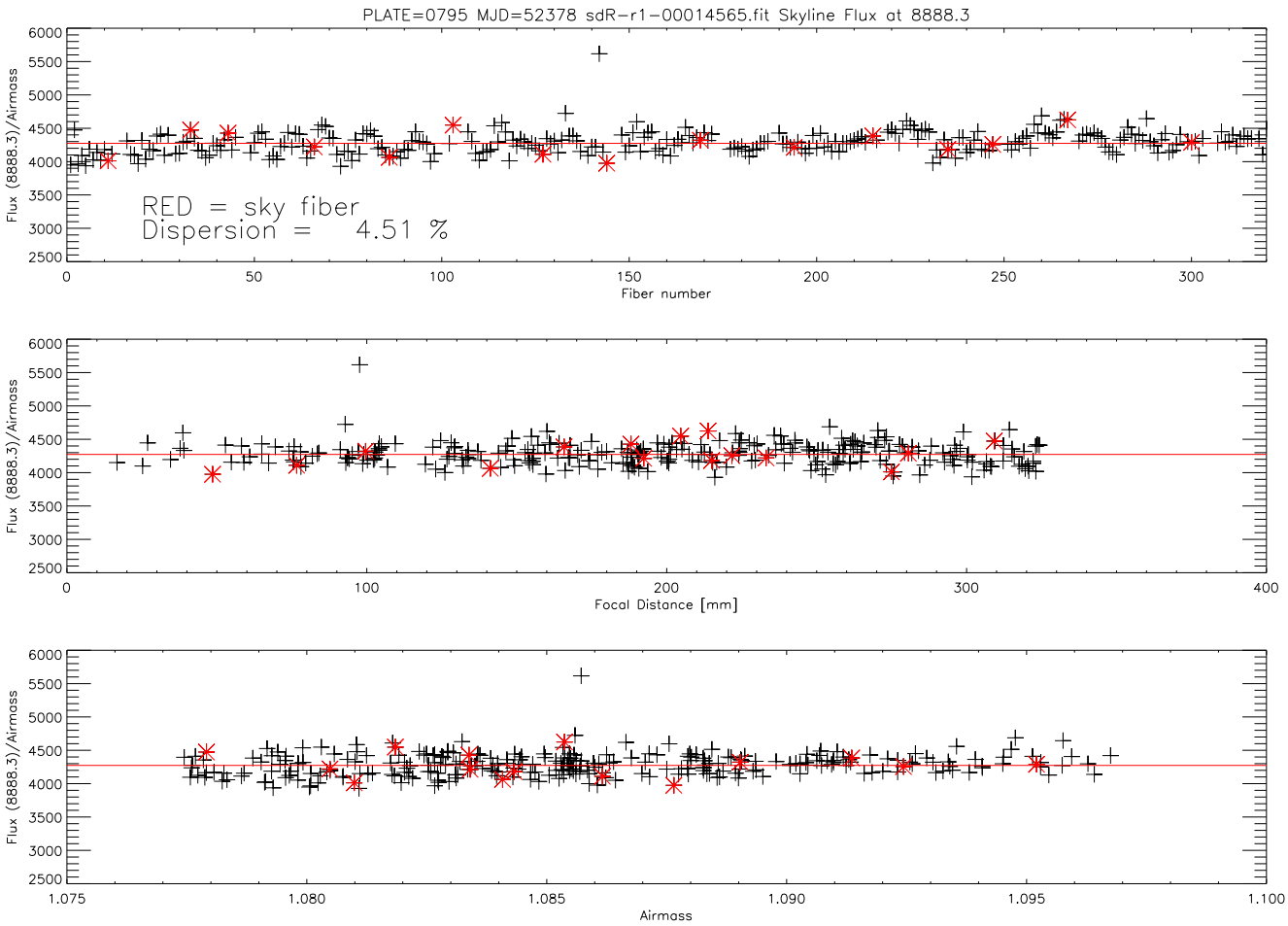

PLATE=0795 MJD=52378 sdR-r1-00014565.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

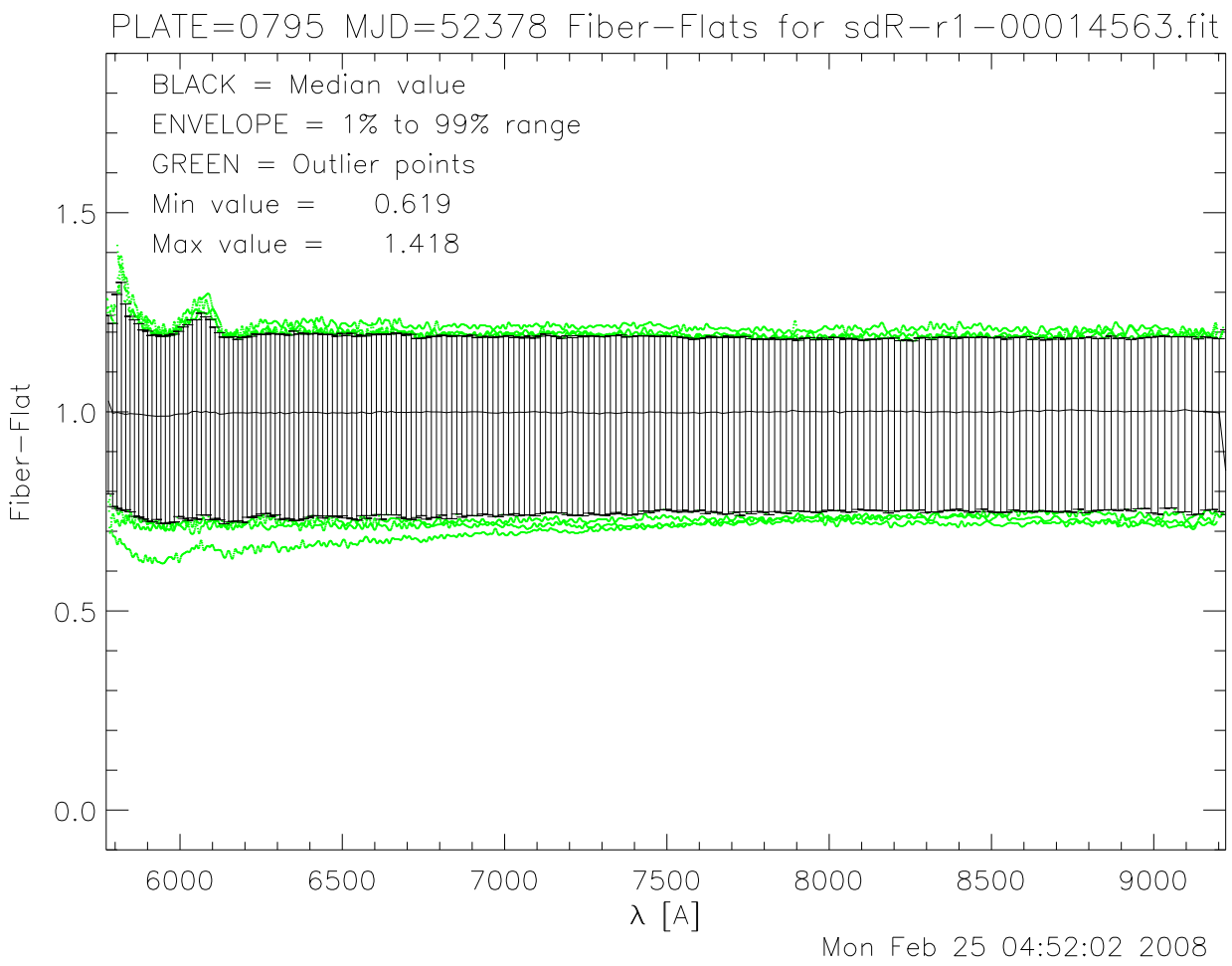

PLATE=0795 MJD=52378 sdR-r1-00014565.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

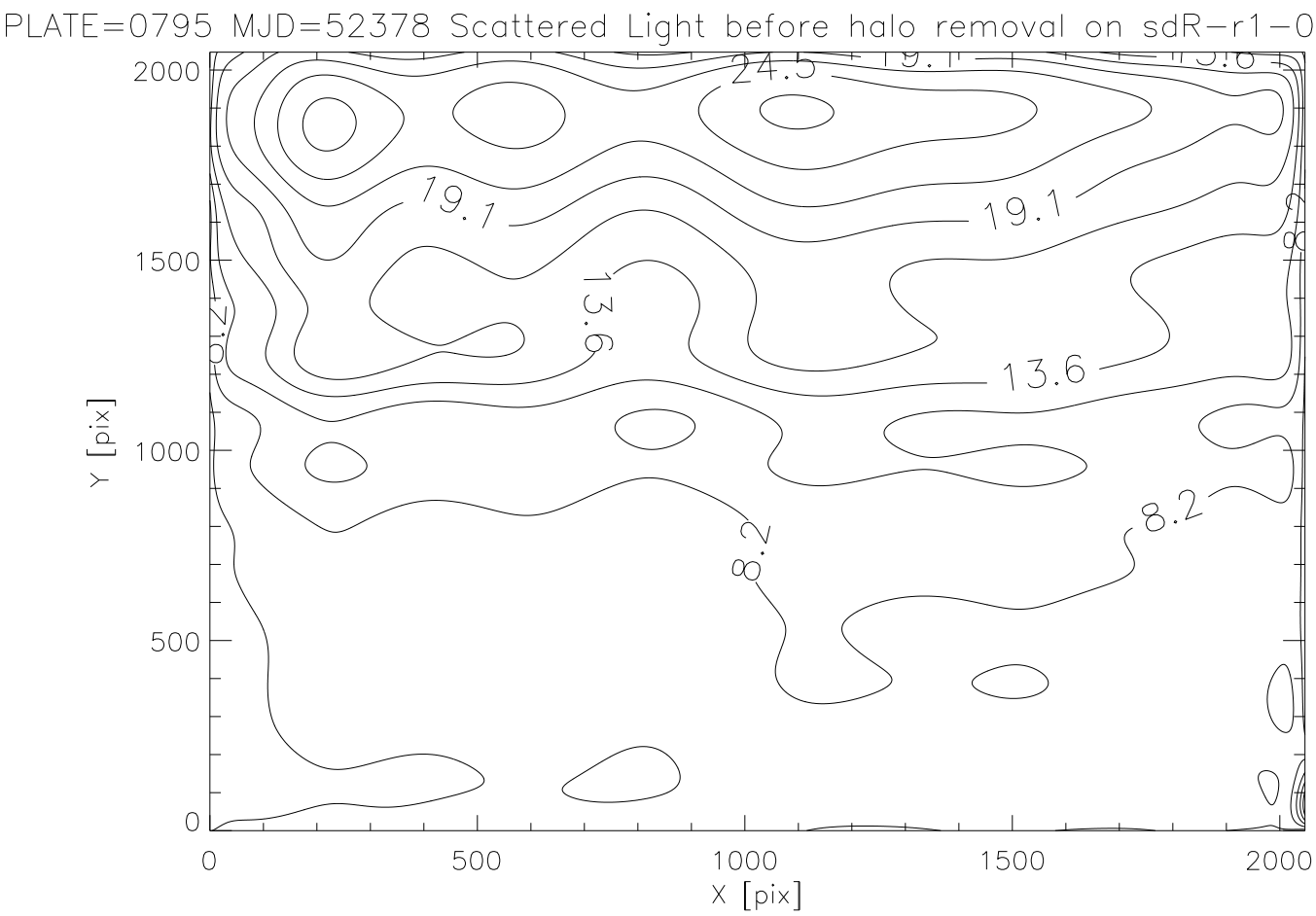

PLATE=0795 MJD=52378 sdR-r1-00014565.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

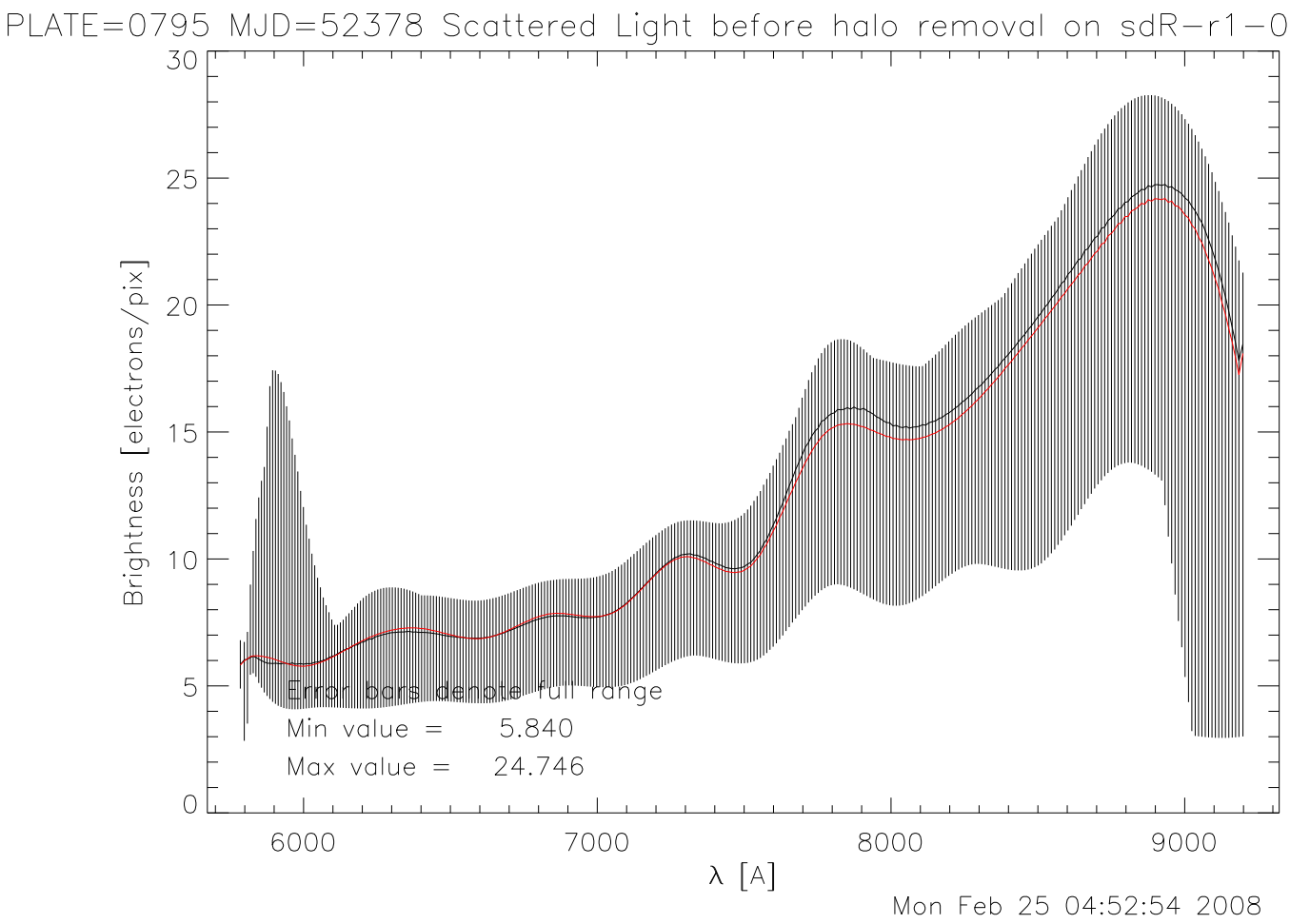

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014565.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

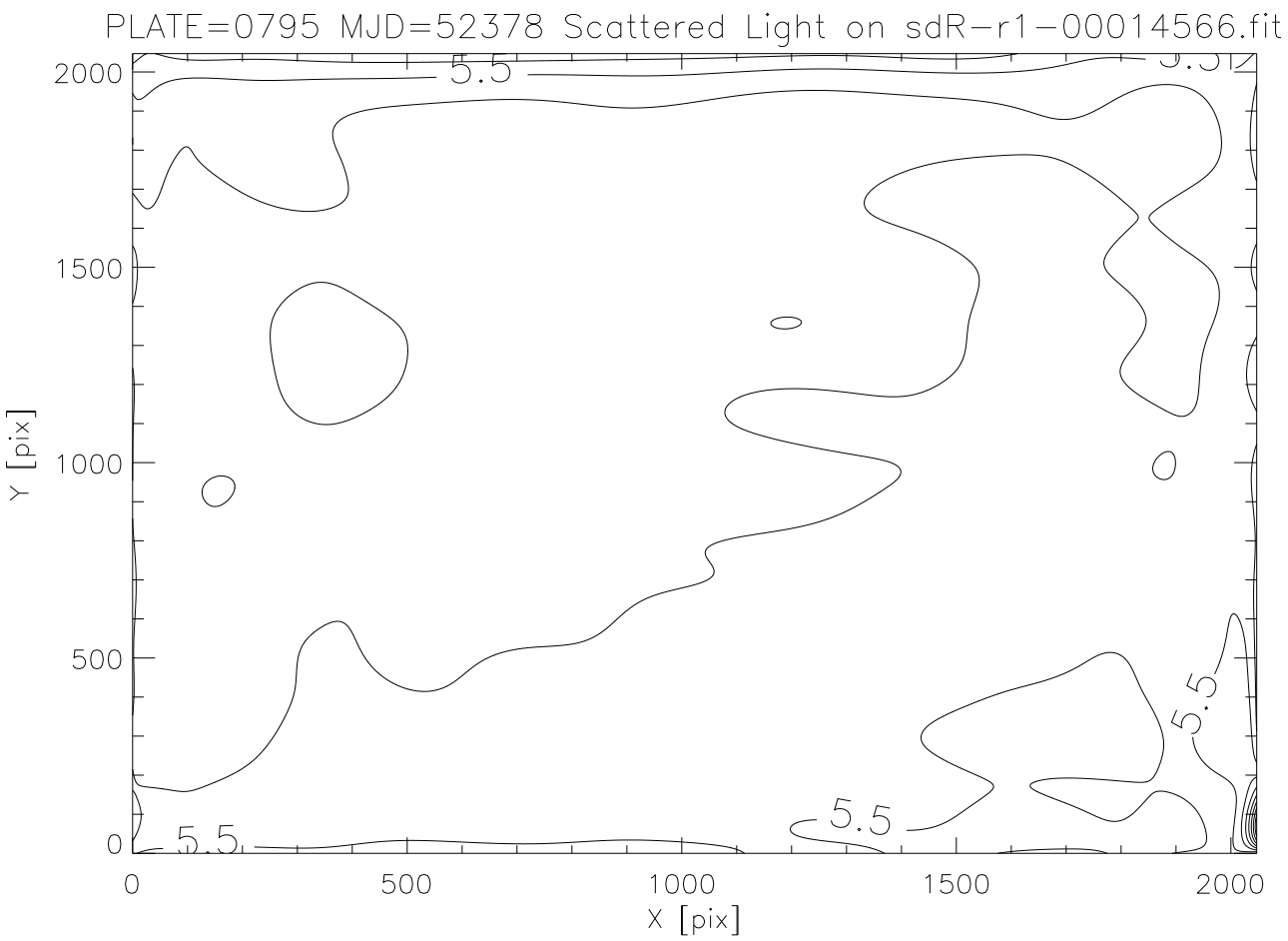

PLATE=0795 MJD=52378 sdR-r1-00014565.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.04 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

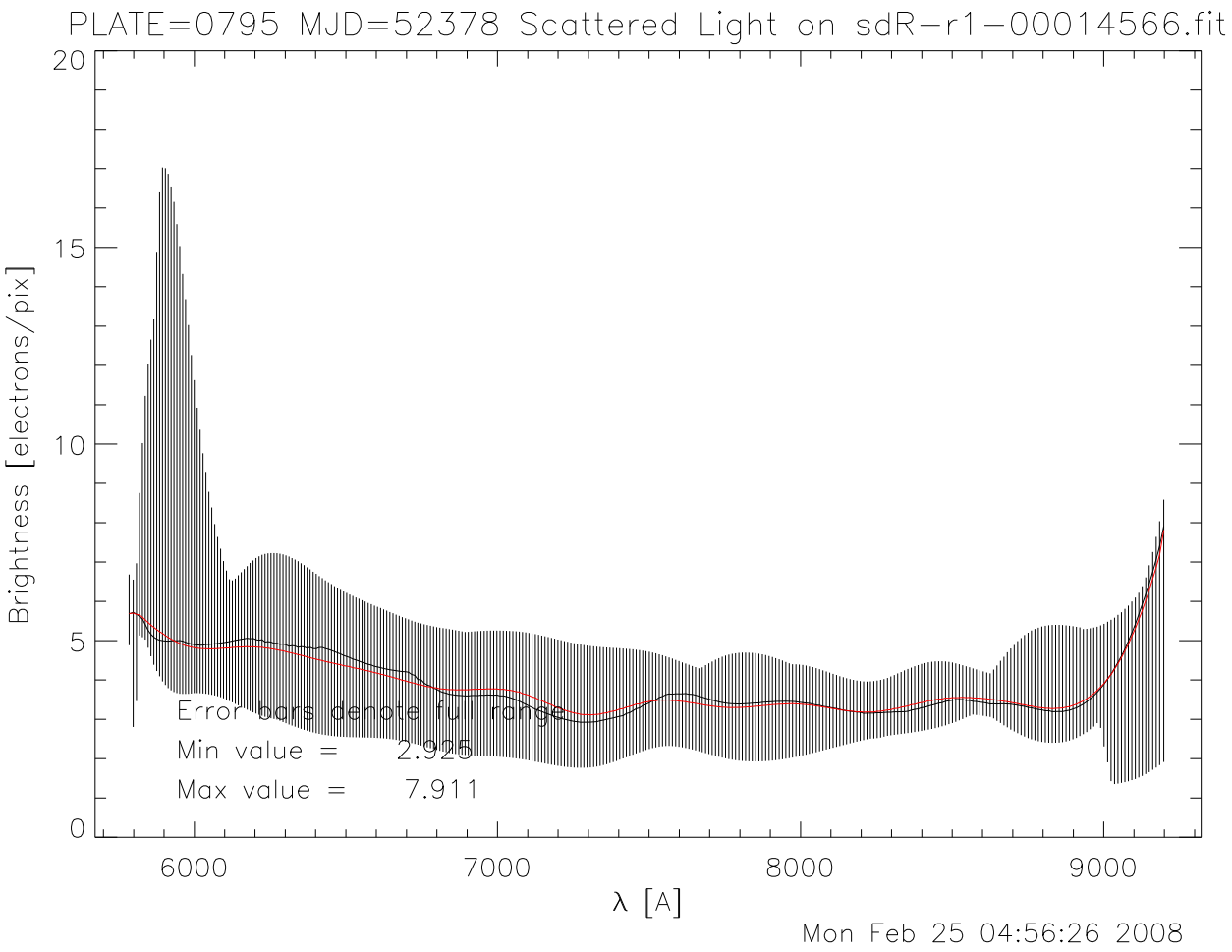

PLATE=0795 MJD=52378 sdR-r1-00014565.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.51 %
Fiber number
Focal Distance [mm]
Airmass

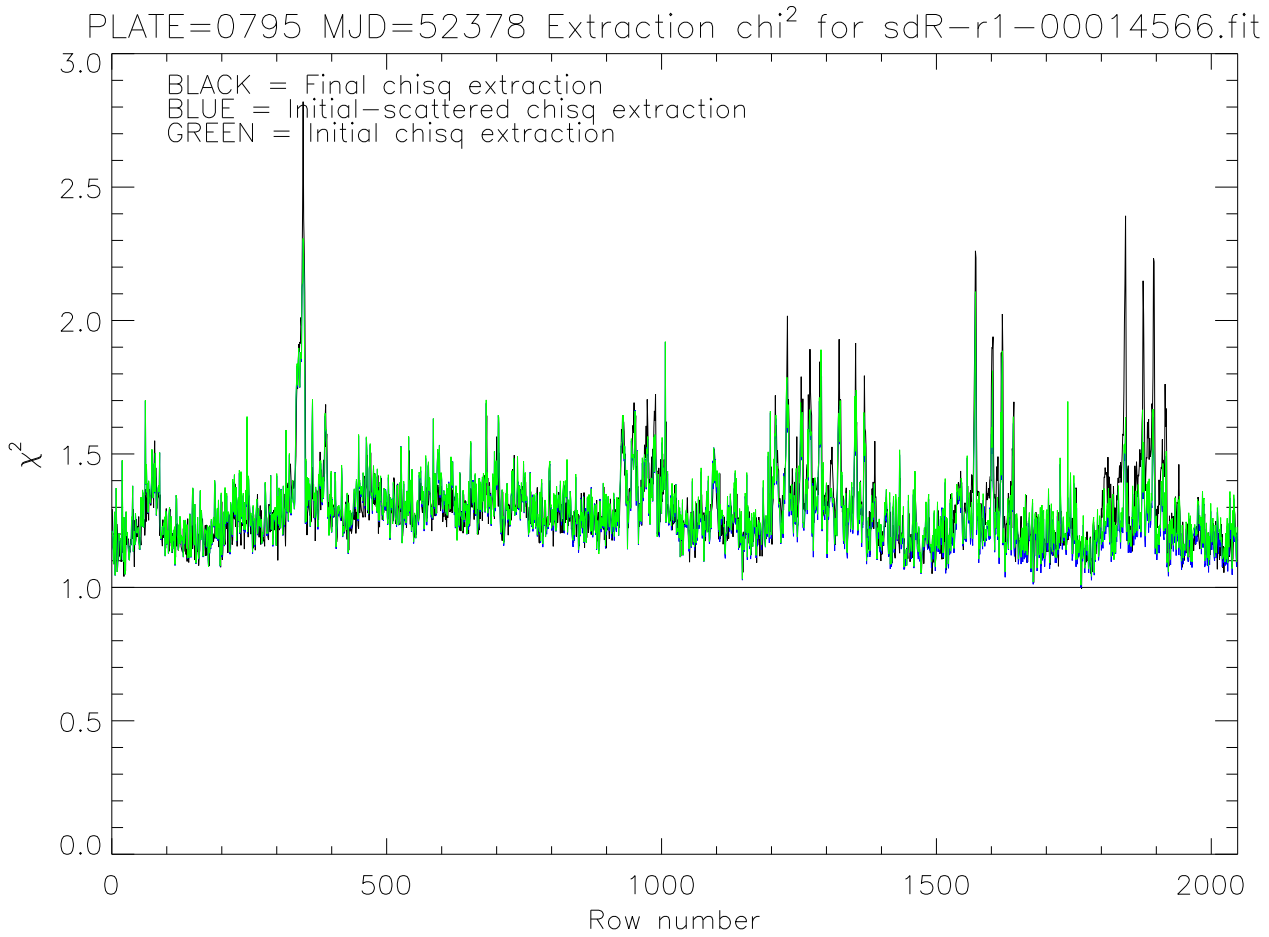

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.619
Max value = 1.418
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 04:52:02 2008

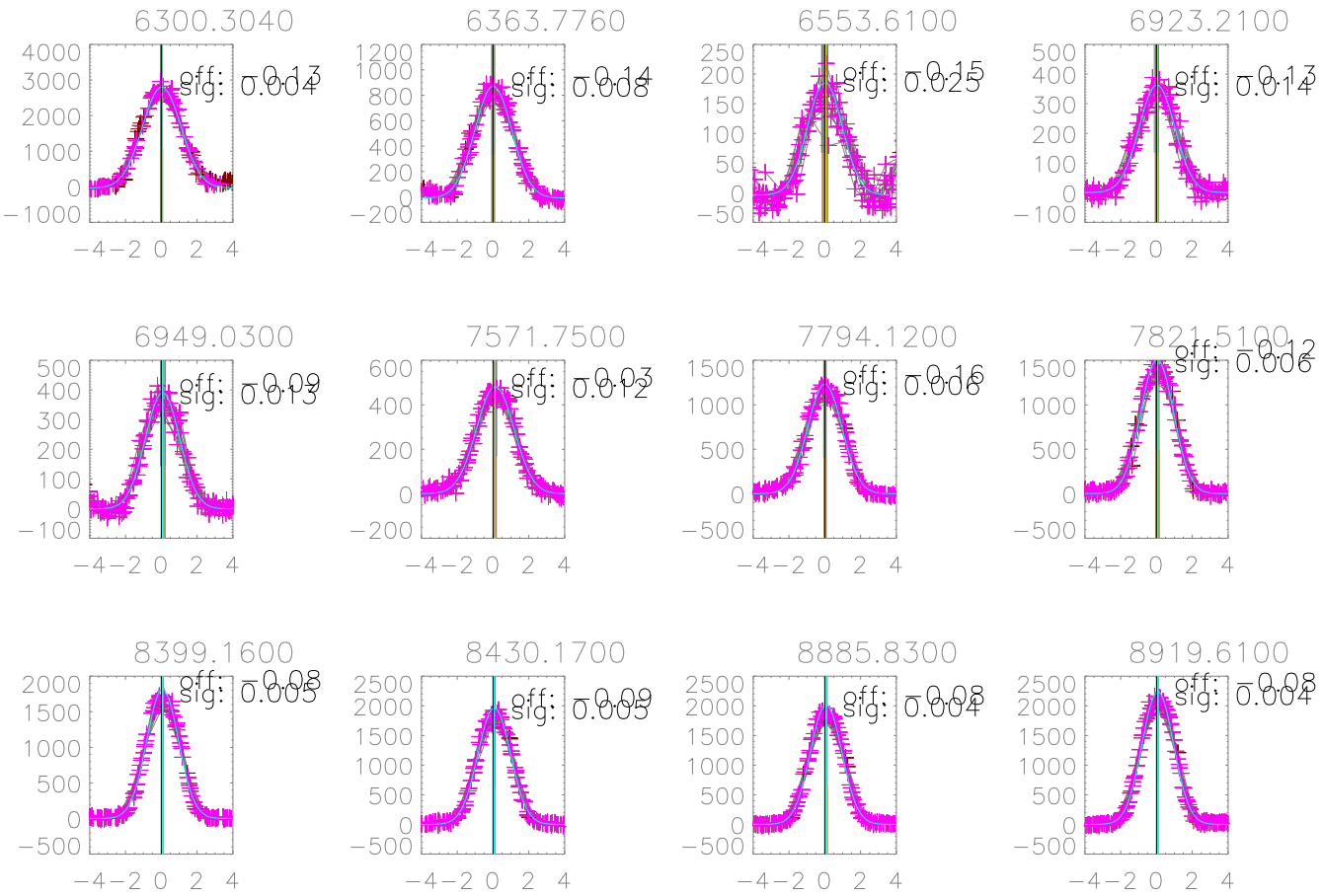

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014566.fi
24.5
19.1
19.1
13.6
13.6
8.2
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

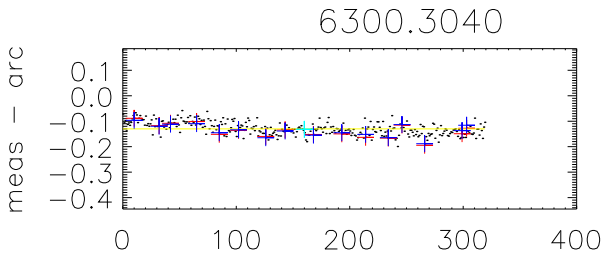

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014566.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.840
Max value = 24.746
Mon Feb 25 04:52:54 2008

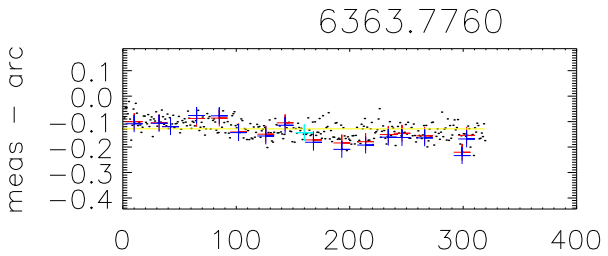

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014566.fit
5.5
5.5
5.5
5.5
0
0
500
1000
1500
2000
500
1000
1500
2000
Y [pix]
X [pix]

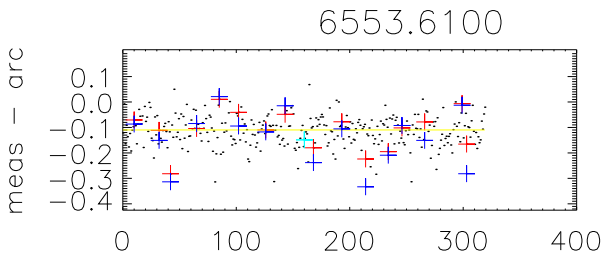

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014566.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 2.925
Max value = 7.911
Mon Feb 25 04:56:26 2008

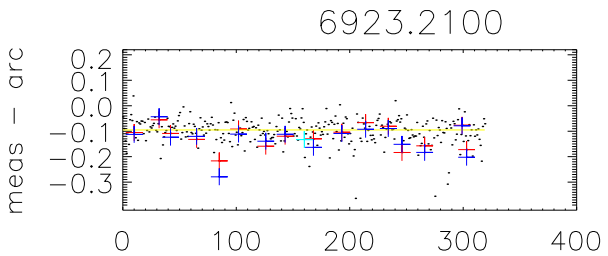

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r1−00014566.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

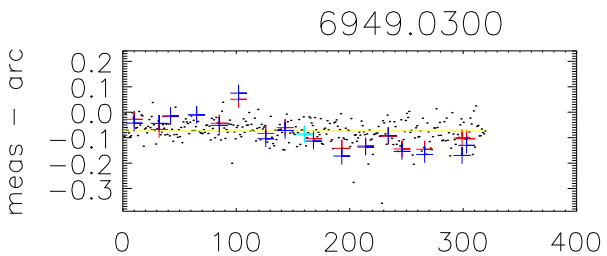

6300.3040
off: −0.13
sig: 0.004
6363.7760
off: −0.14
sig: 0.008
6553.6100
off: −0.15
sig: 0.025
6923.2100
off: −0.13
sig: 0.014
6949.0300
off: −0.09
sig: 0.013
7571.7500
off: −0.03
sig: 0.012
7794.1200
off: −0.16
sig: 0.006
7821.5100
off: −0.12
sig: 0.006
8399.1600
off: −0.08
sig: 0.005
8430.1700
off: −0.09
sig: 0.005
8885.8300
off: −0.08
sig: 0.004
8919.6100
off: −0.08
sig: 0.004

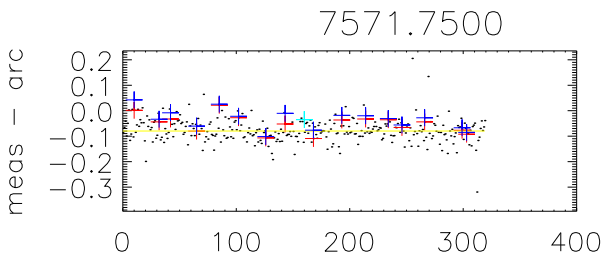

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

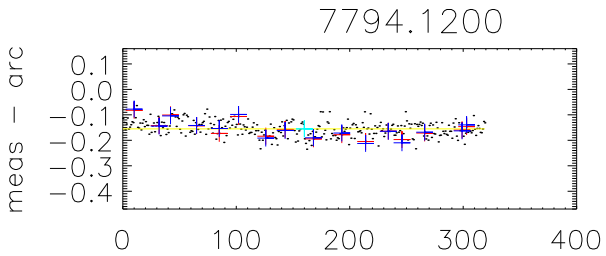

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

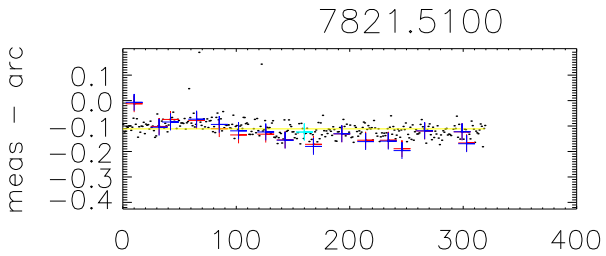

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

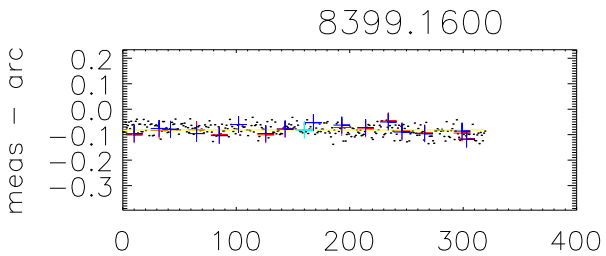

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

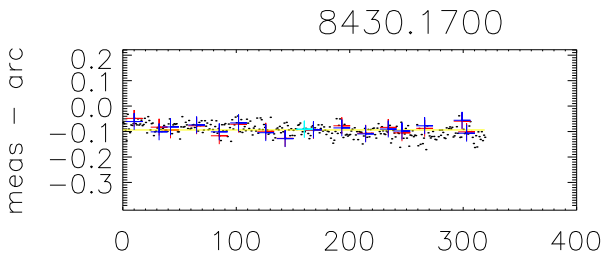

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

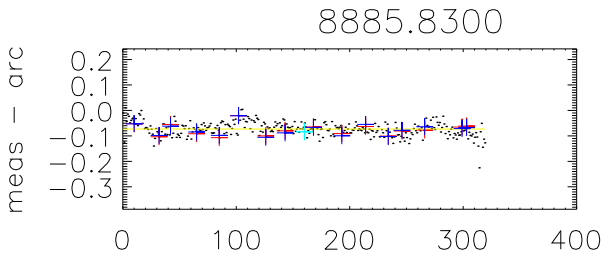

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

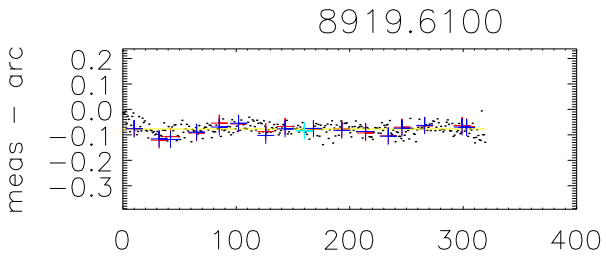

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

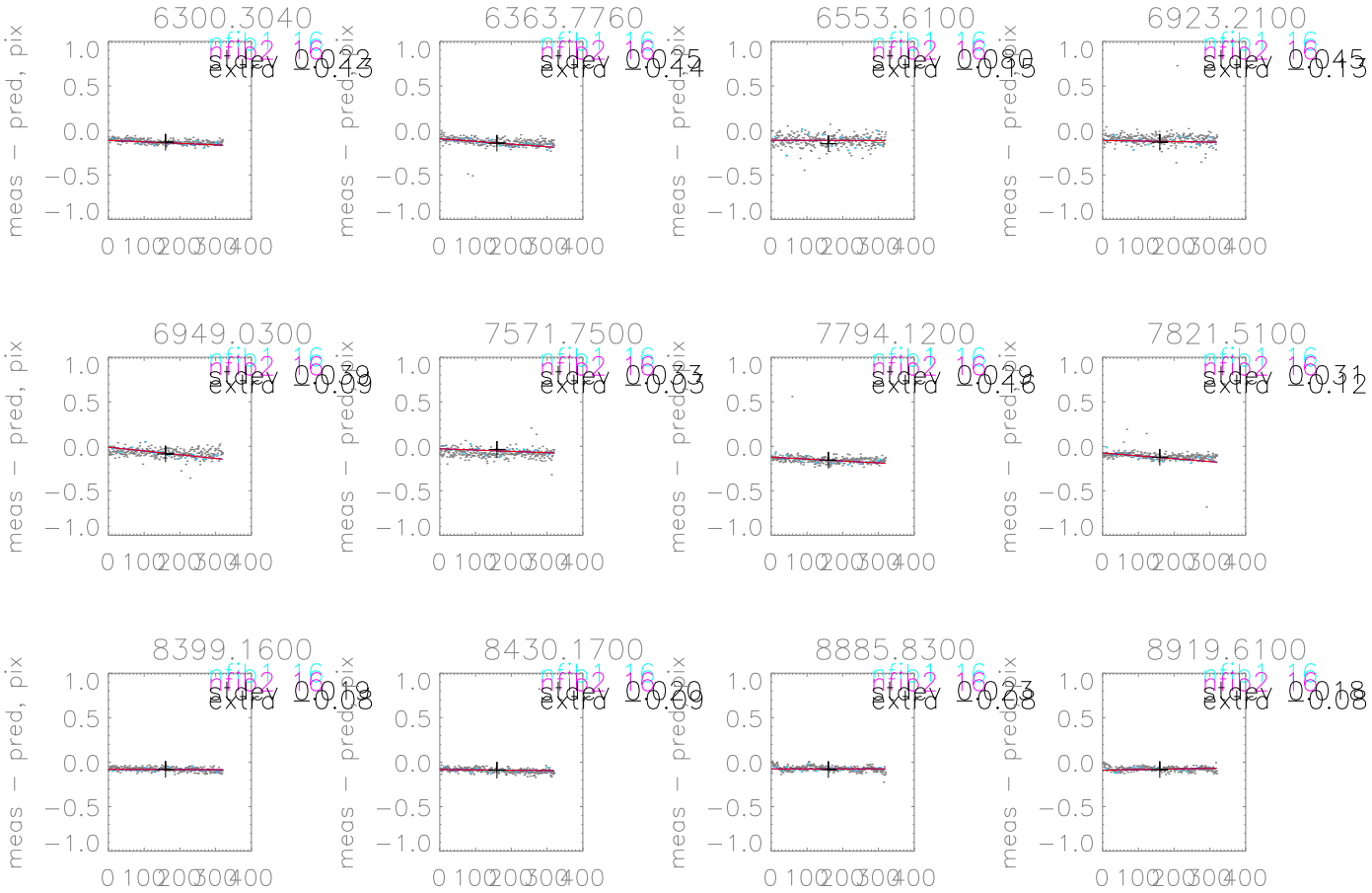

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

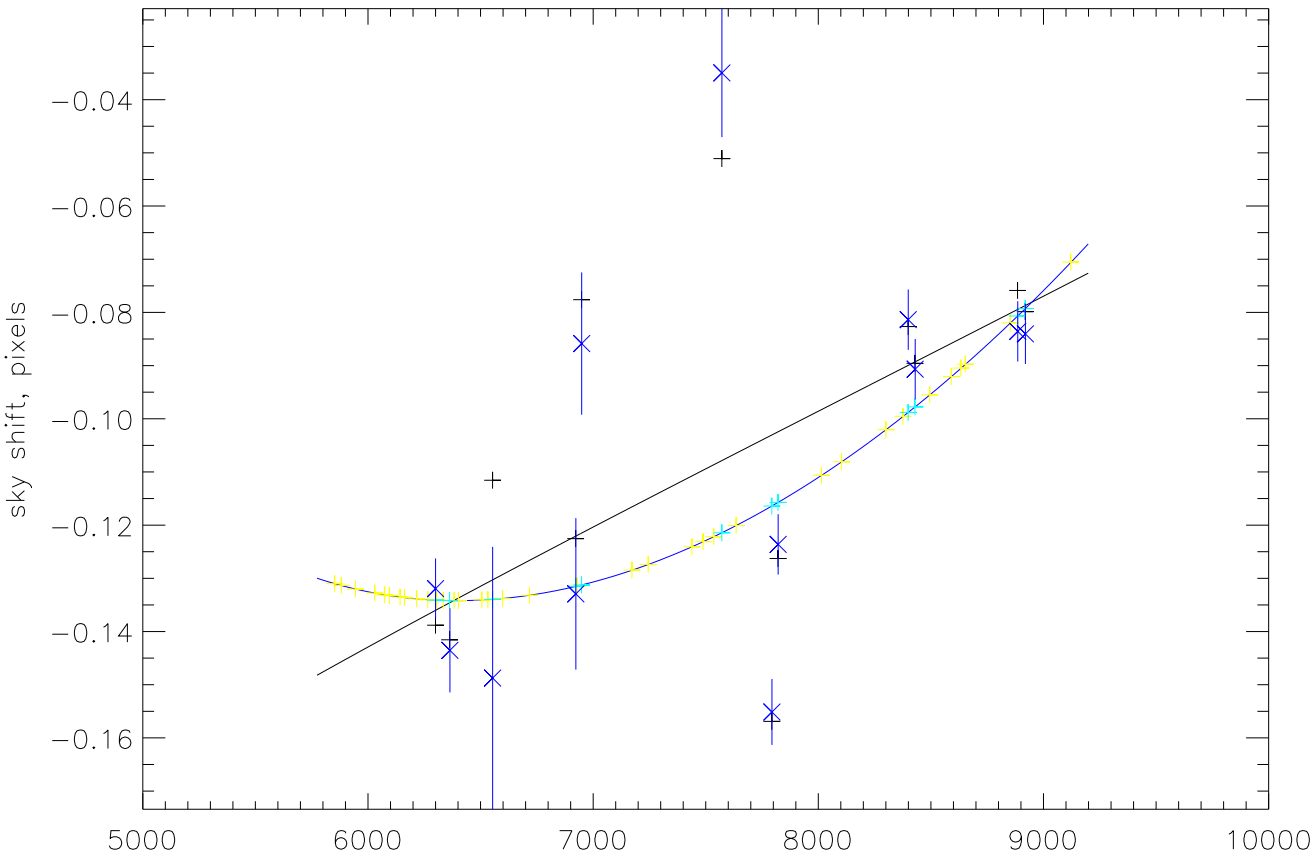

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

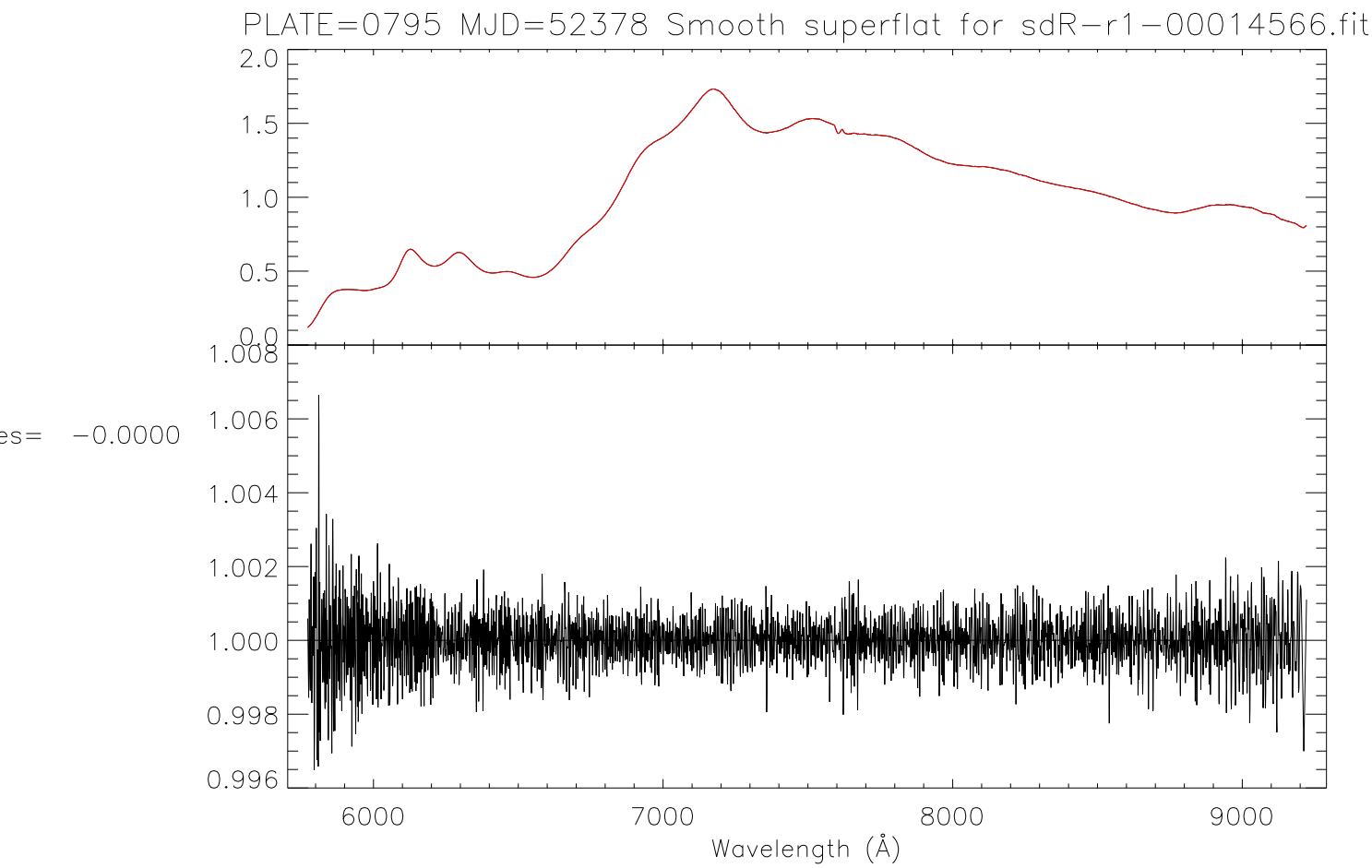

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

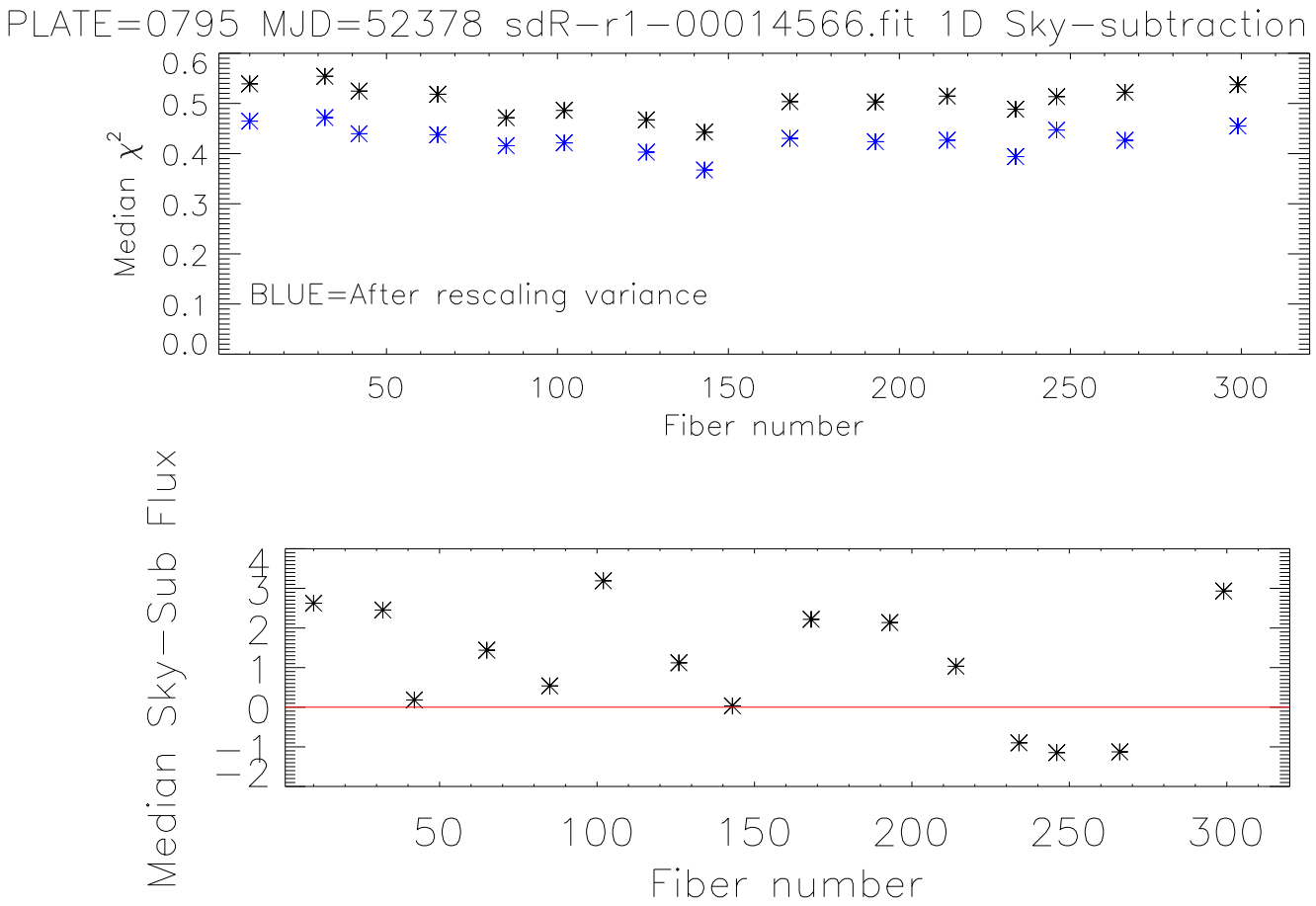

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

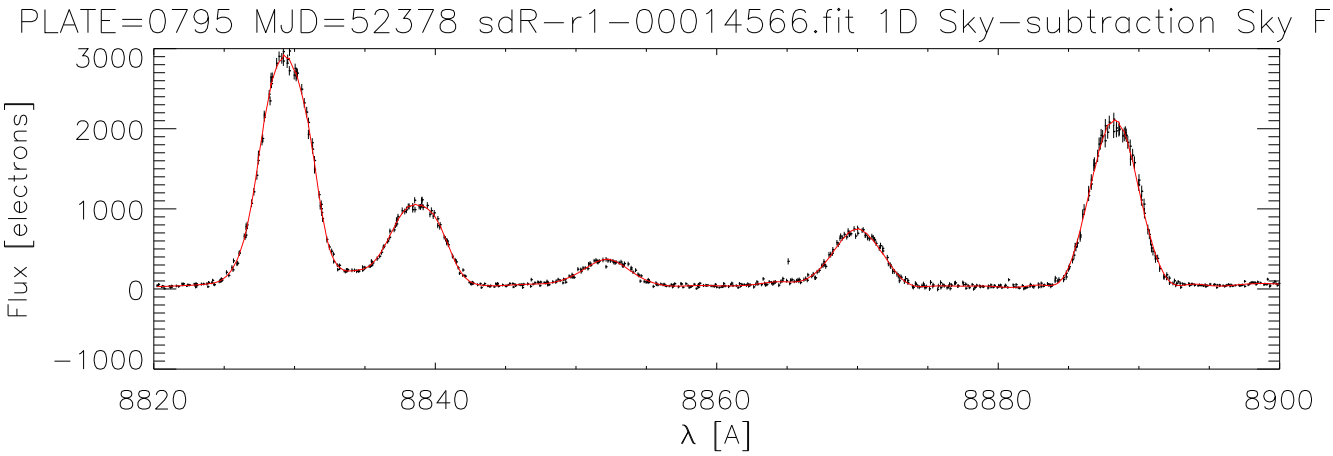

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhd2 16
stdev 0.022
extrd 0.043
stdev 0.025
extrd 0.044
stdev 0.080
extrd 0.095
stdev 0.045
extrd 0.113
stdev 0.039
extrd 0.099
stdev 0.033
extrd 0.093
stdev 0.029
extrd 0.048
stdev 0.031
extrd 0.112
stdev 0.019
extrd 0.078
stdev 0.020
extrd 0.069
stdev 0.023
extrd 0.078
stdev 0.018
extrd 0.078
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

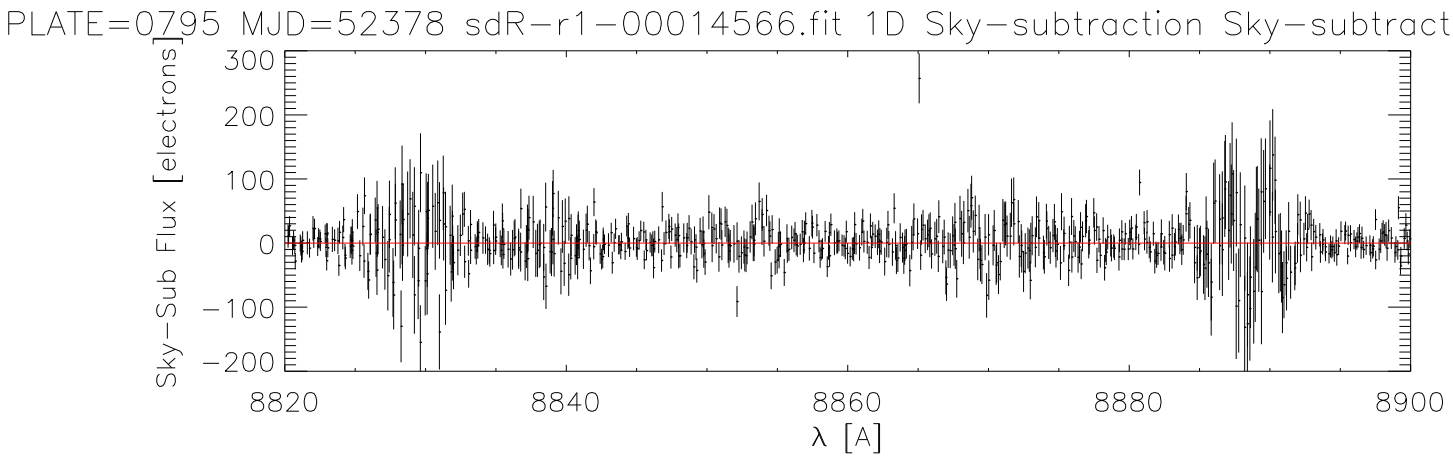

sky shift, pixels
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
5000
6000
7000
8000
9000
10000

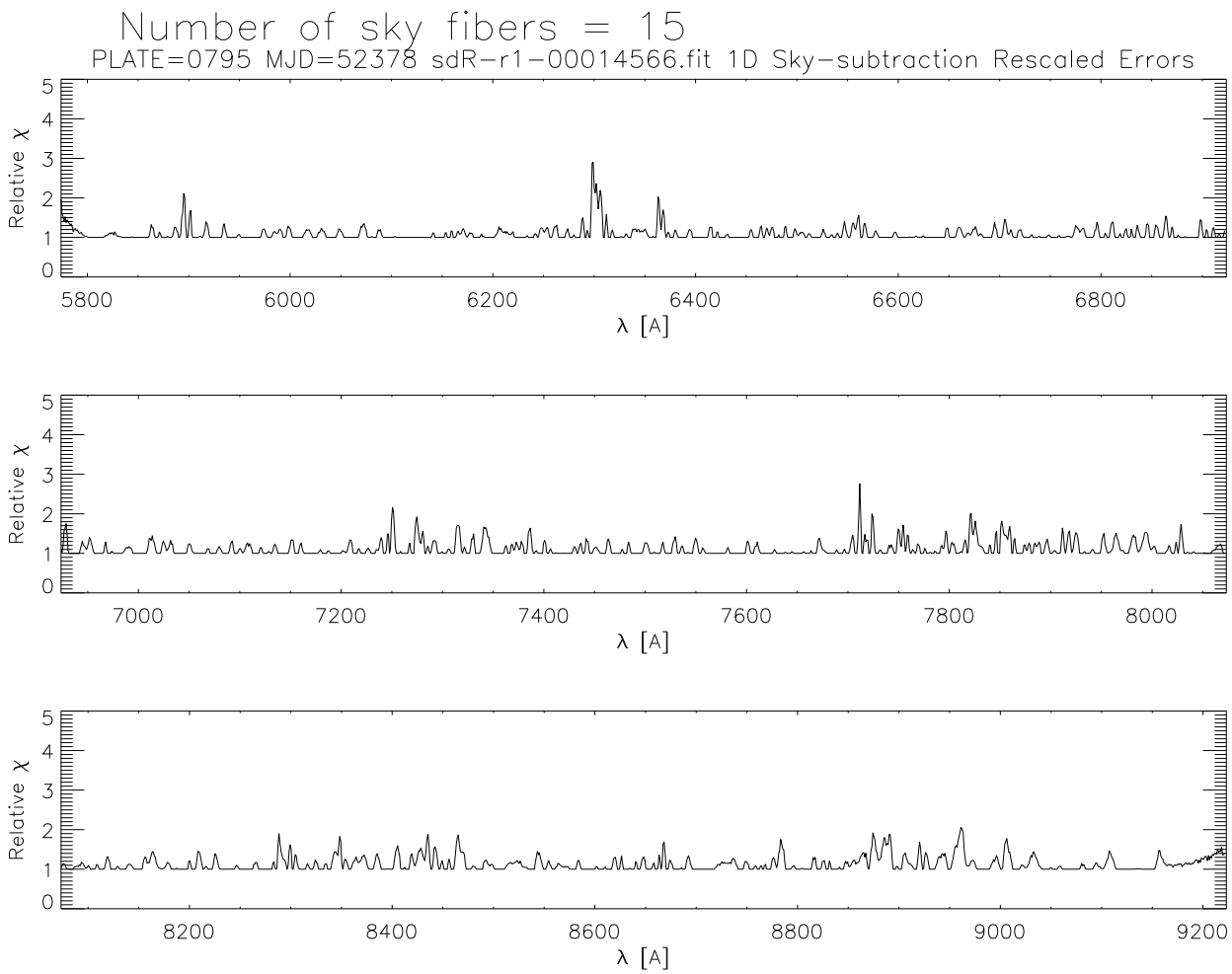

PLATE=0795 MJD=52378 Smooth superflat for sdR-r1-00014566.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

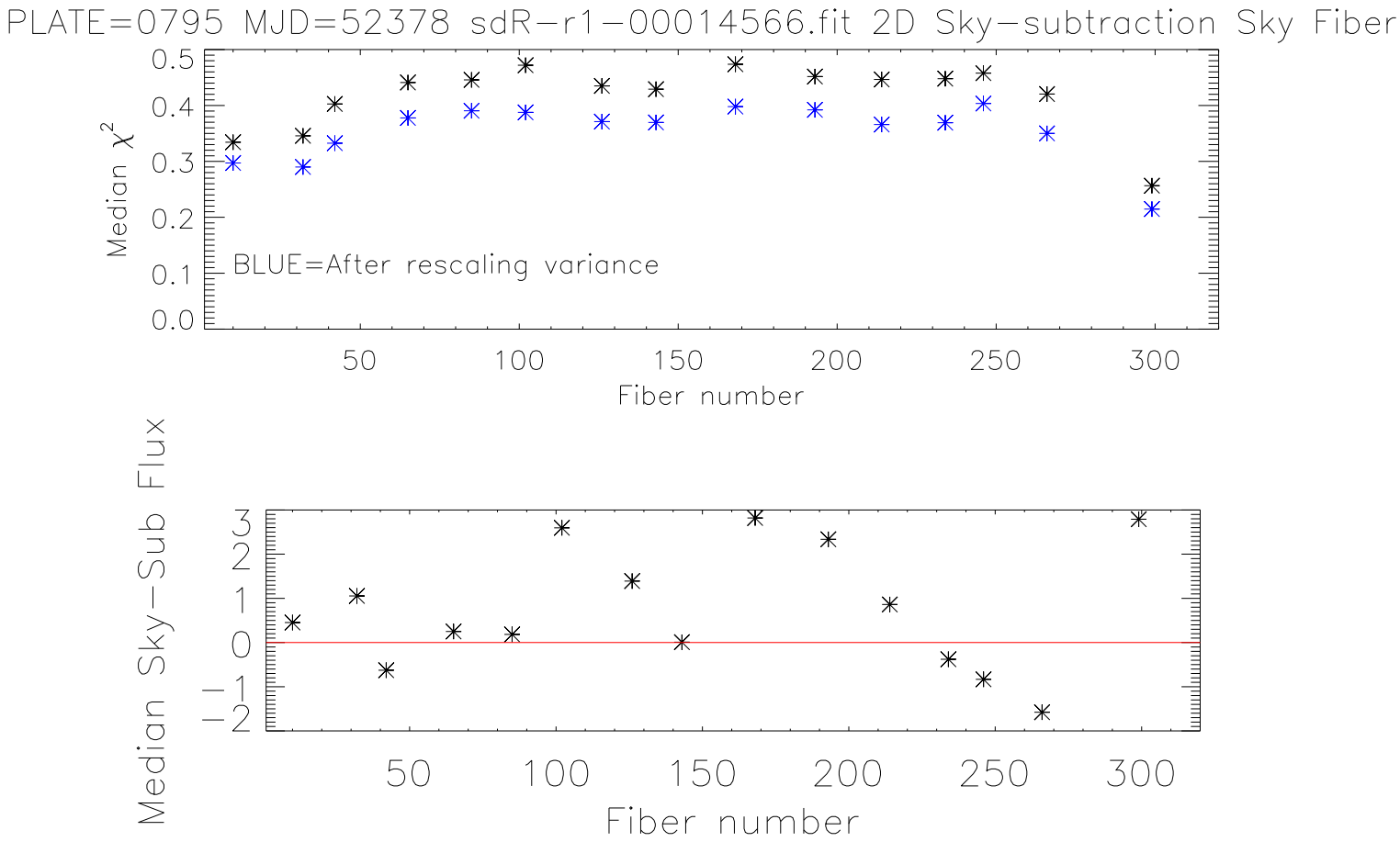
es= −0.0000

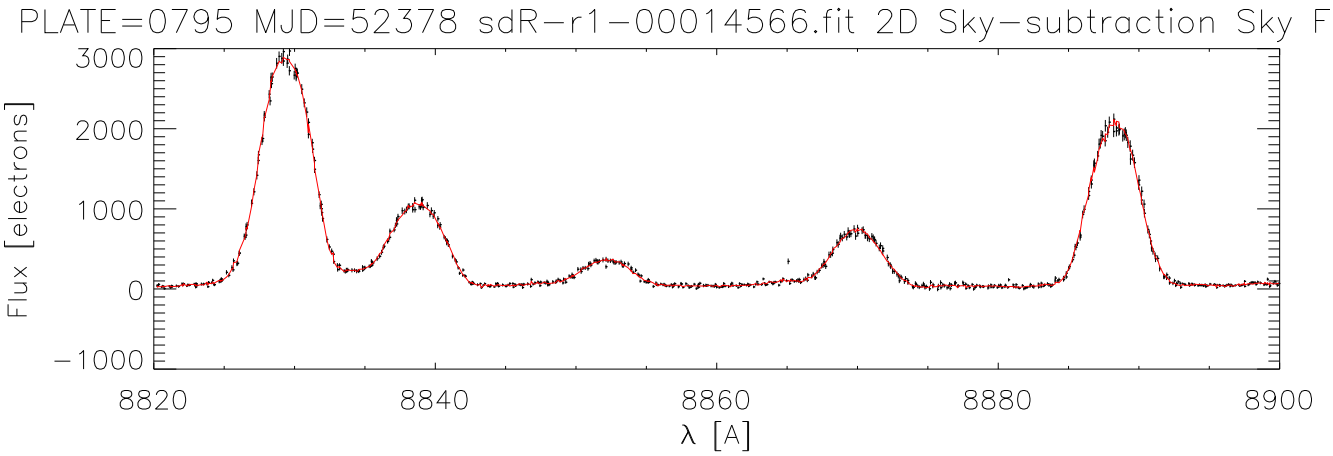

PLATE=0795 MJD=52378 sdR-r1-00014566.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

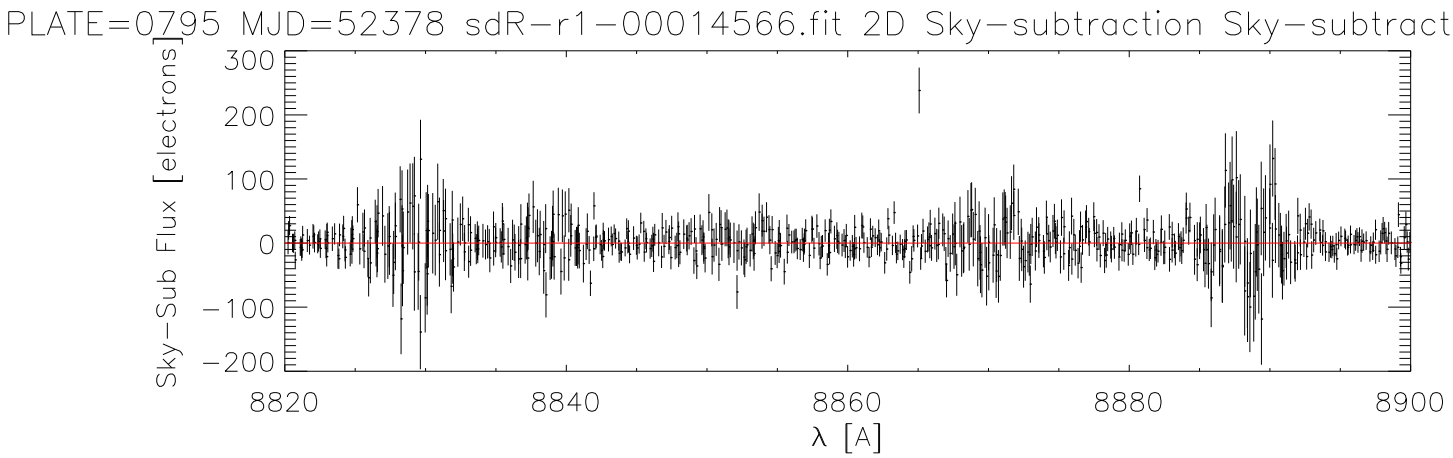

PLATE=0795 MJD=52378 sdR-r1-00014566.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

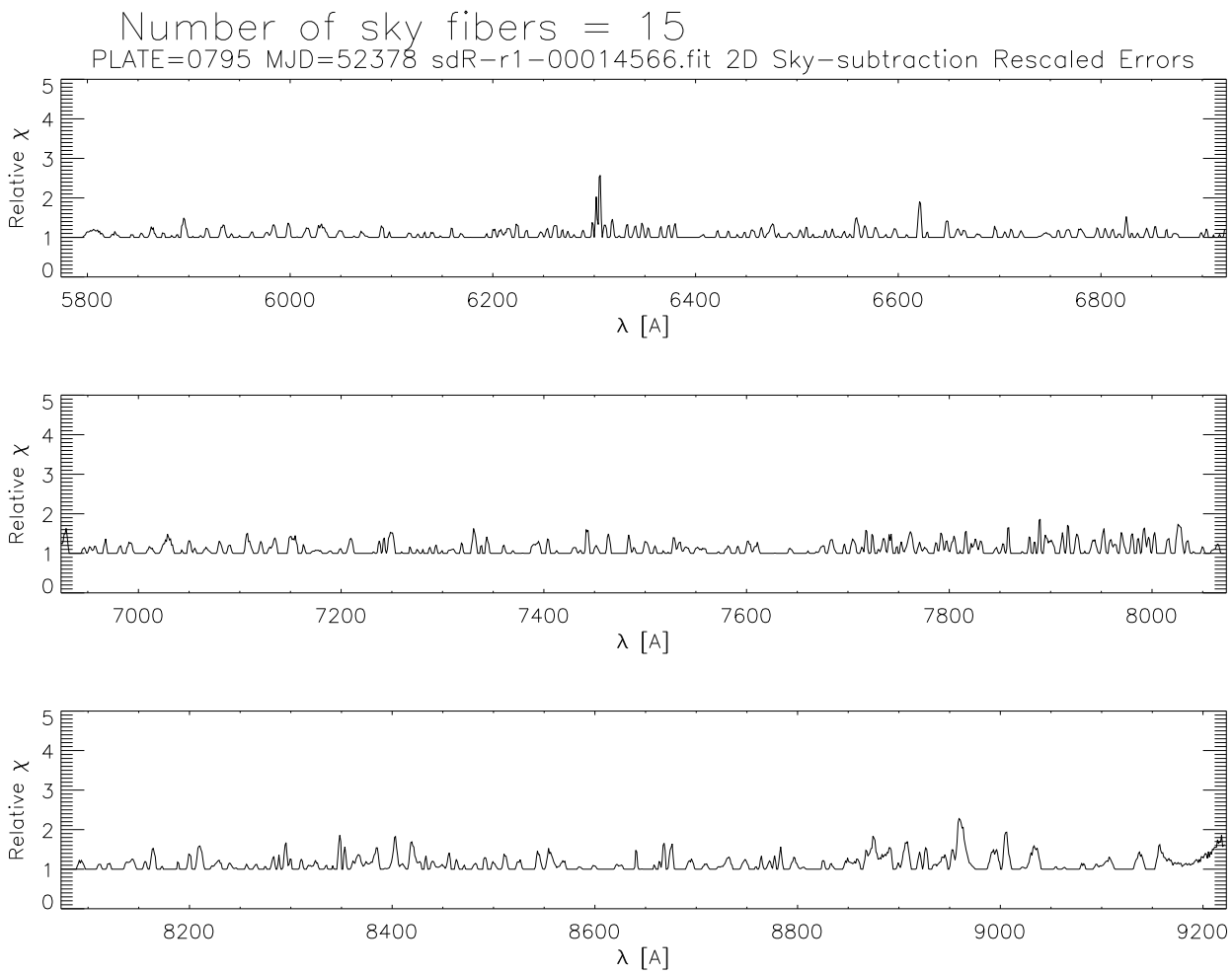

PLATE=0795 MJD=52378 sdR-r1-00014566.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

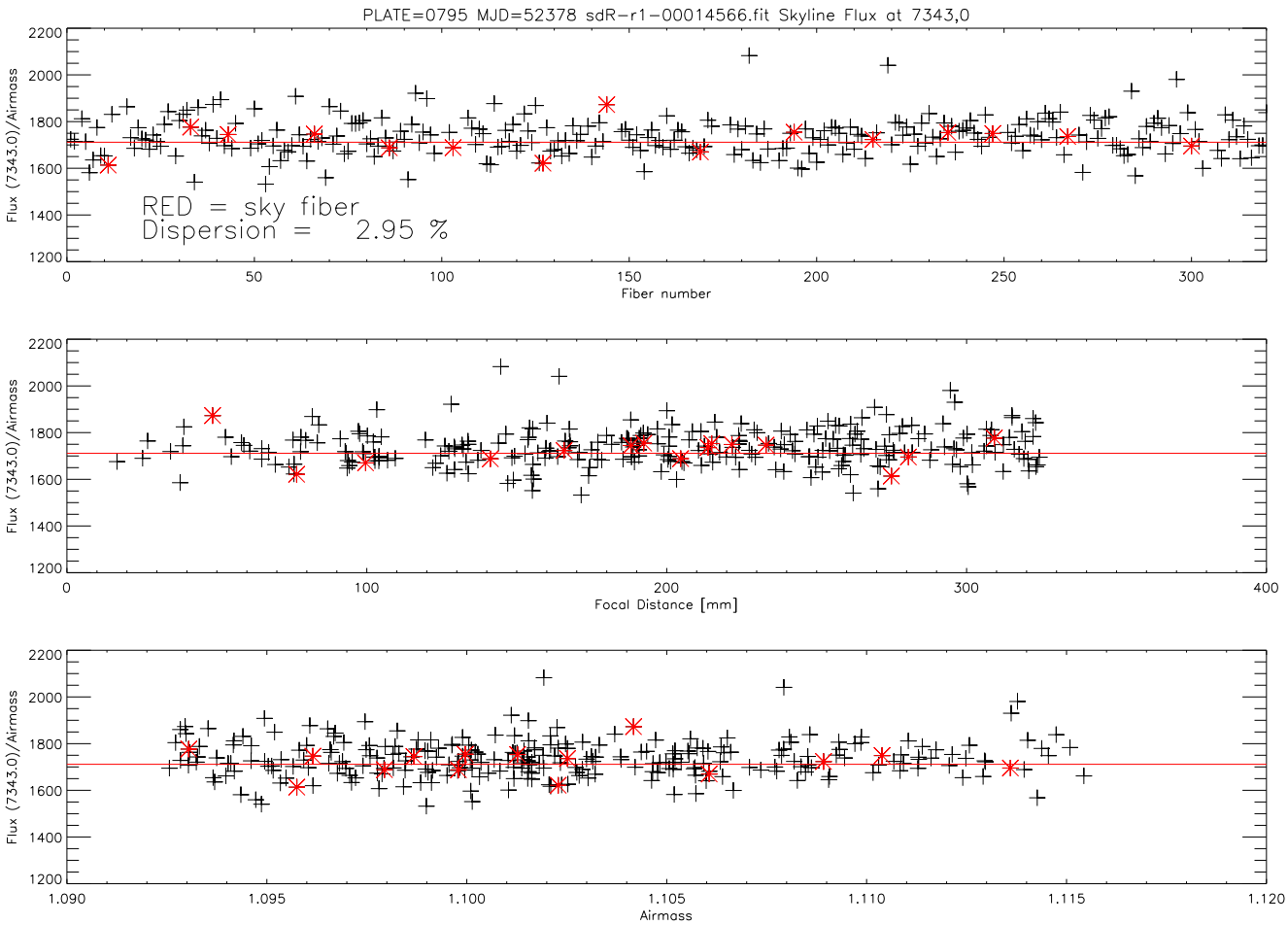

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014566.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

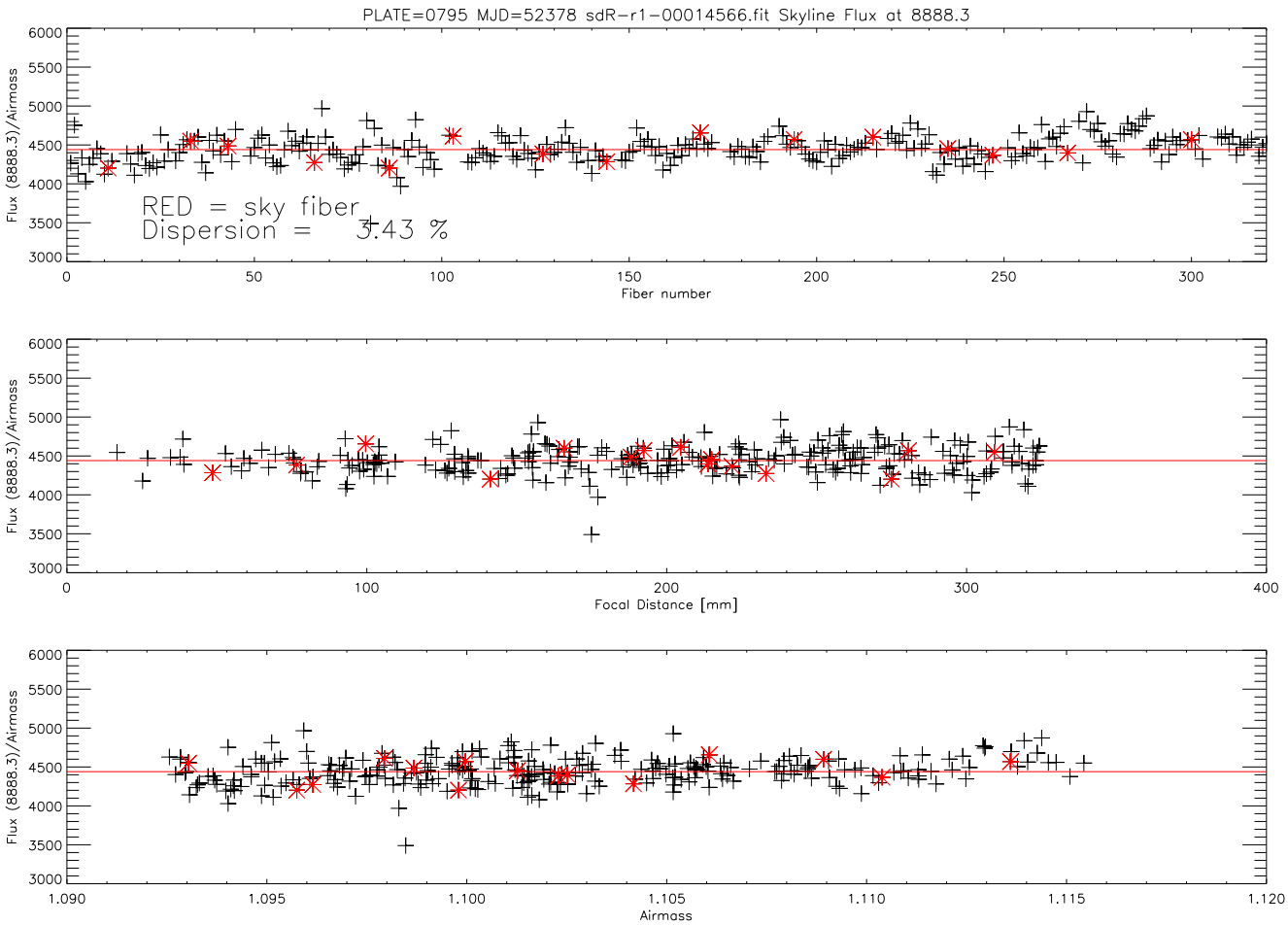

PLATE=0795 MJD=52378 sdR-r1-00014566.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

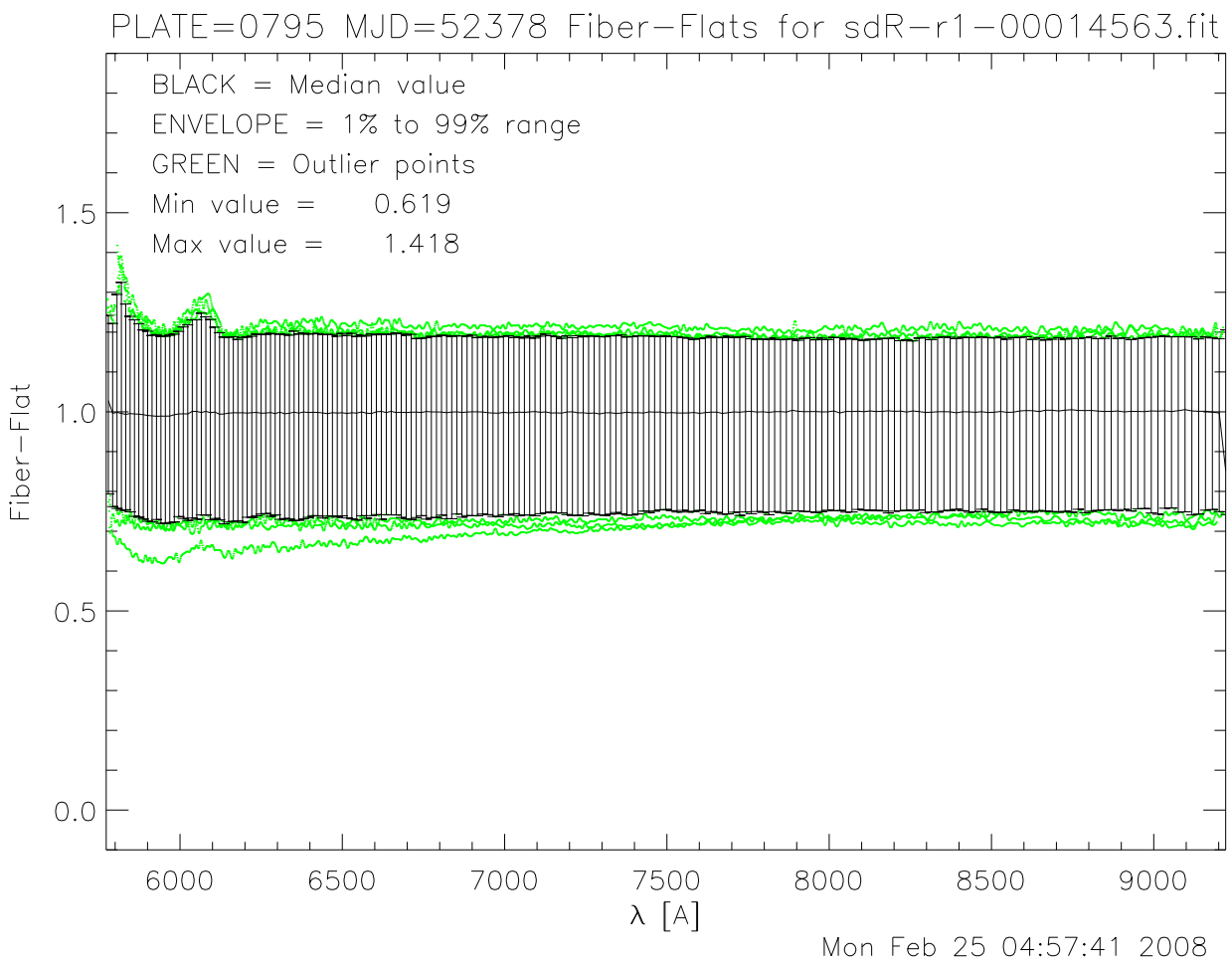

PLATE=0795 MJD=52378 sdR-r1-00014566.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

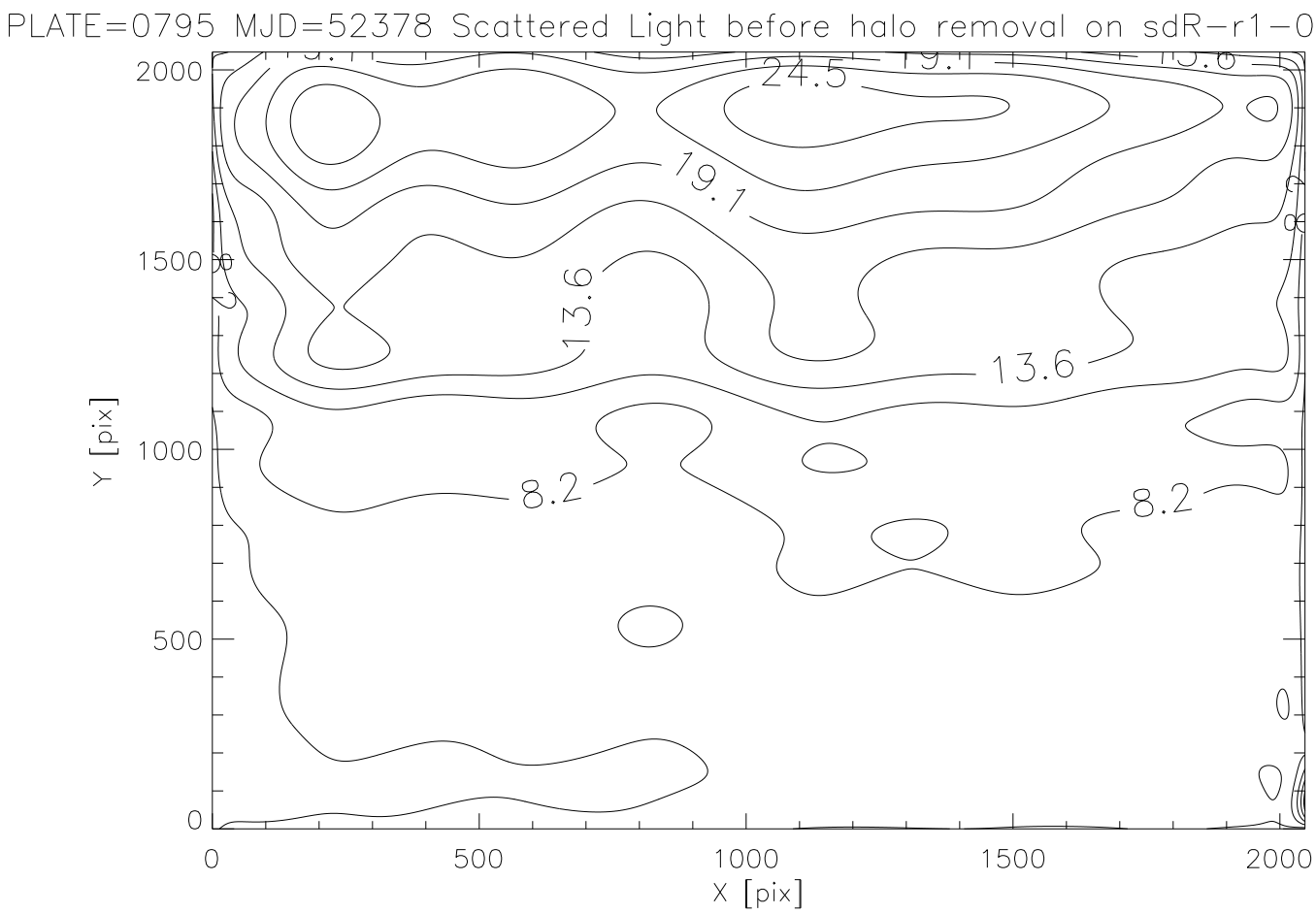

PLATE=0795 MJD=52378 sdR-r1-00014566.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

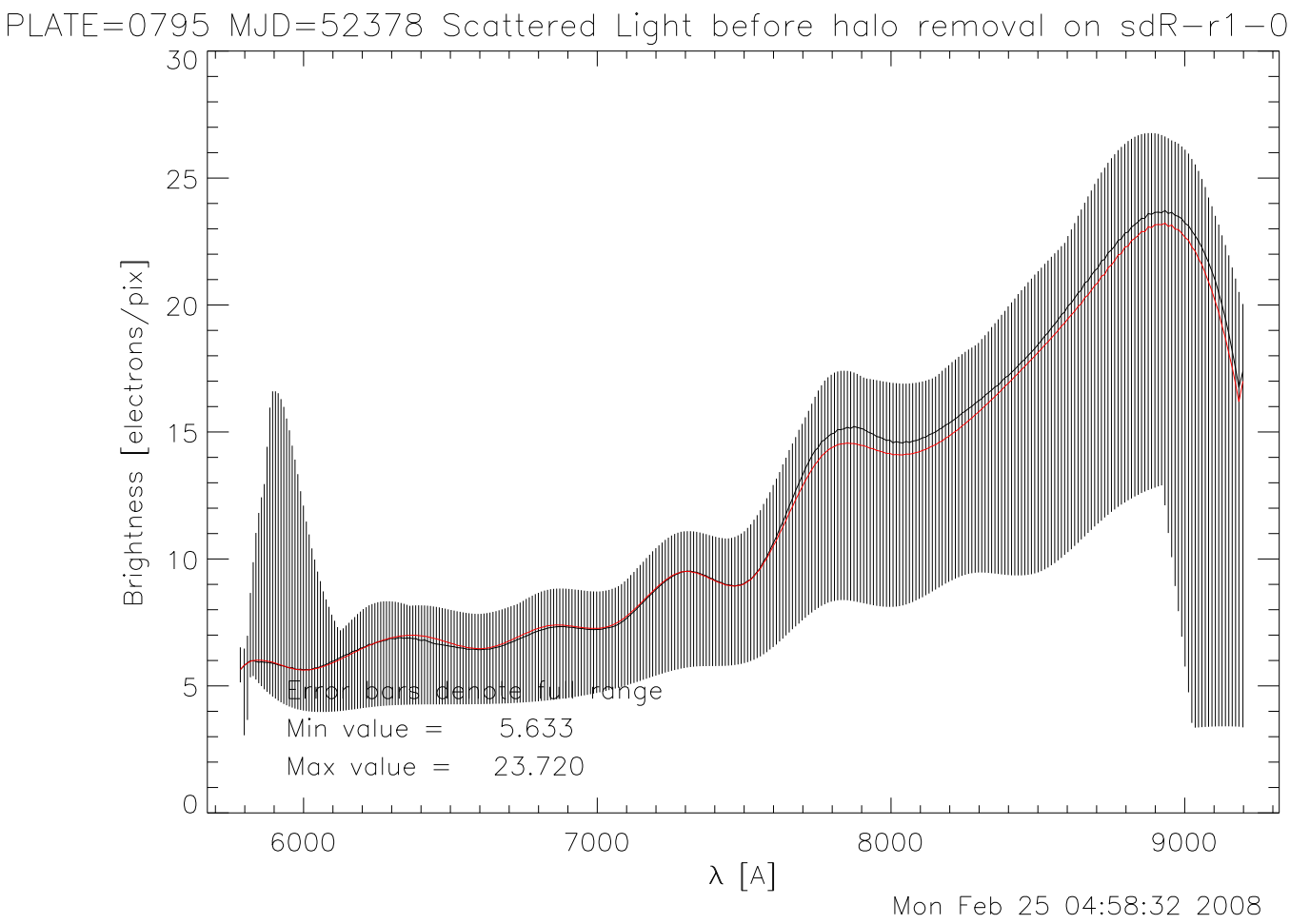

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014566.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

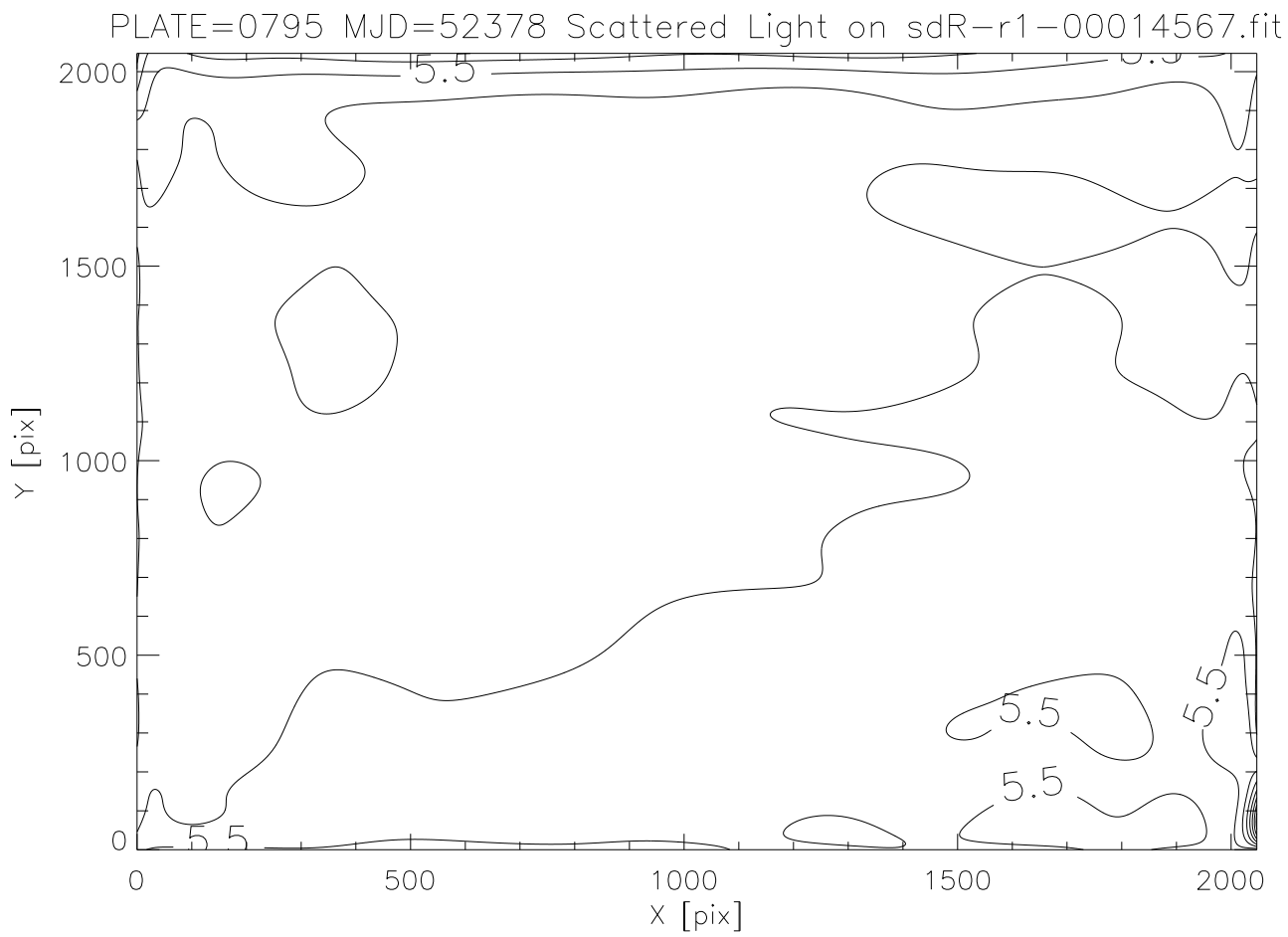

PLATE=0795 MJD=52378 sdR-r1-00014566.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.95 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

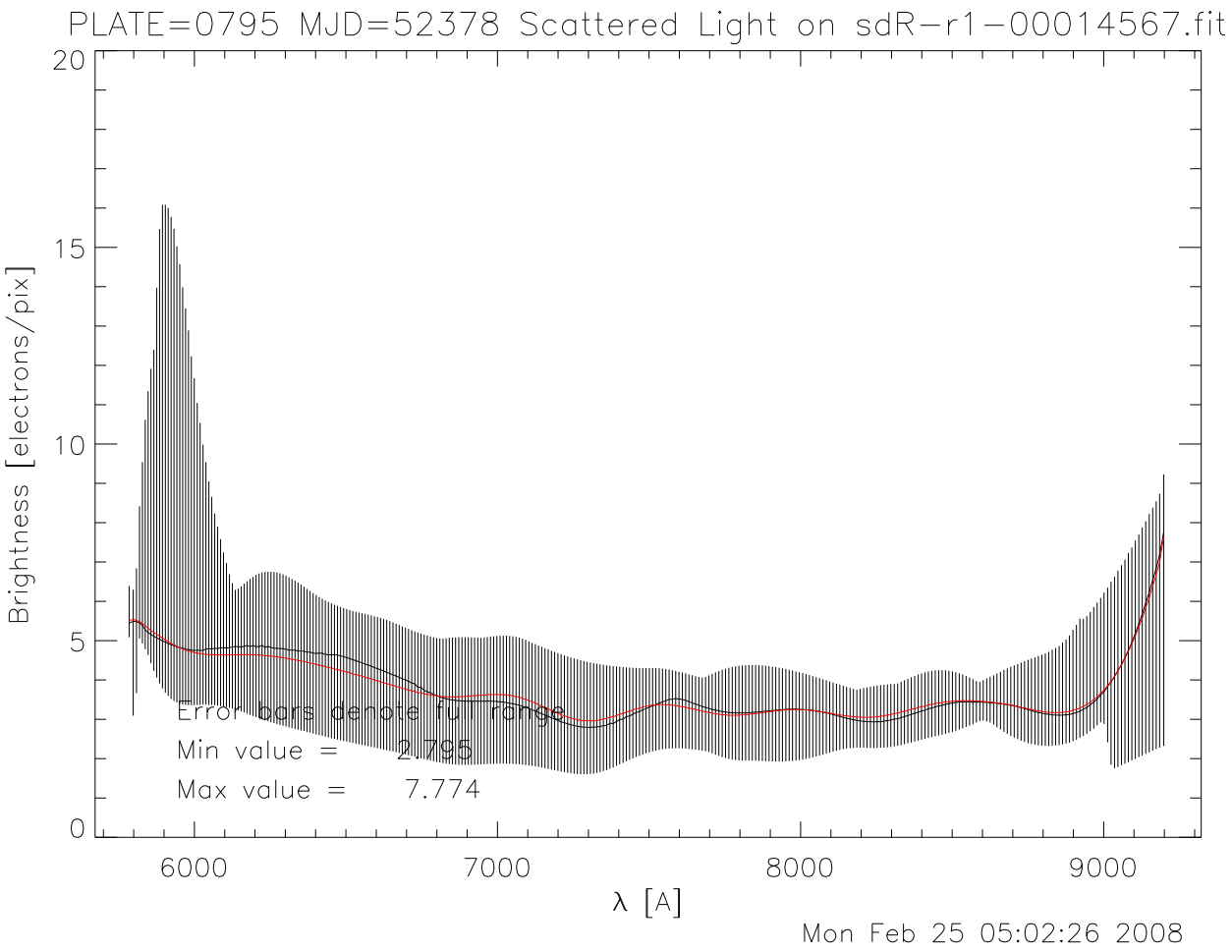

PLATE=0795 MJD=52378 sdR-r1-00014566.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.43 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

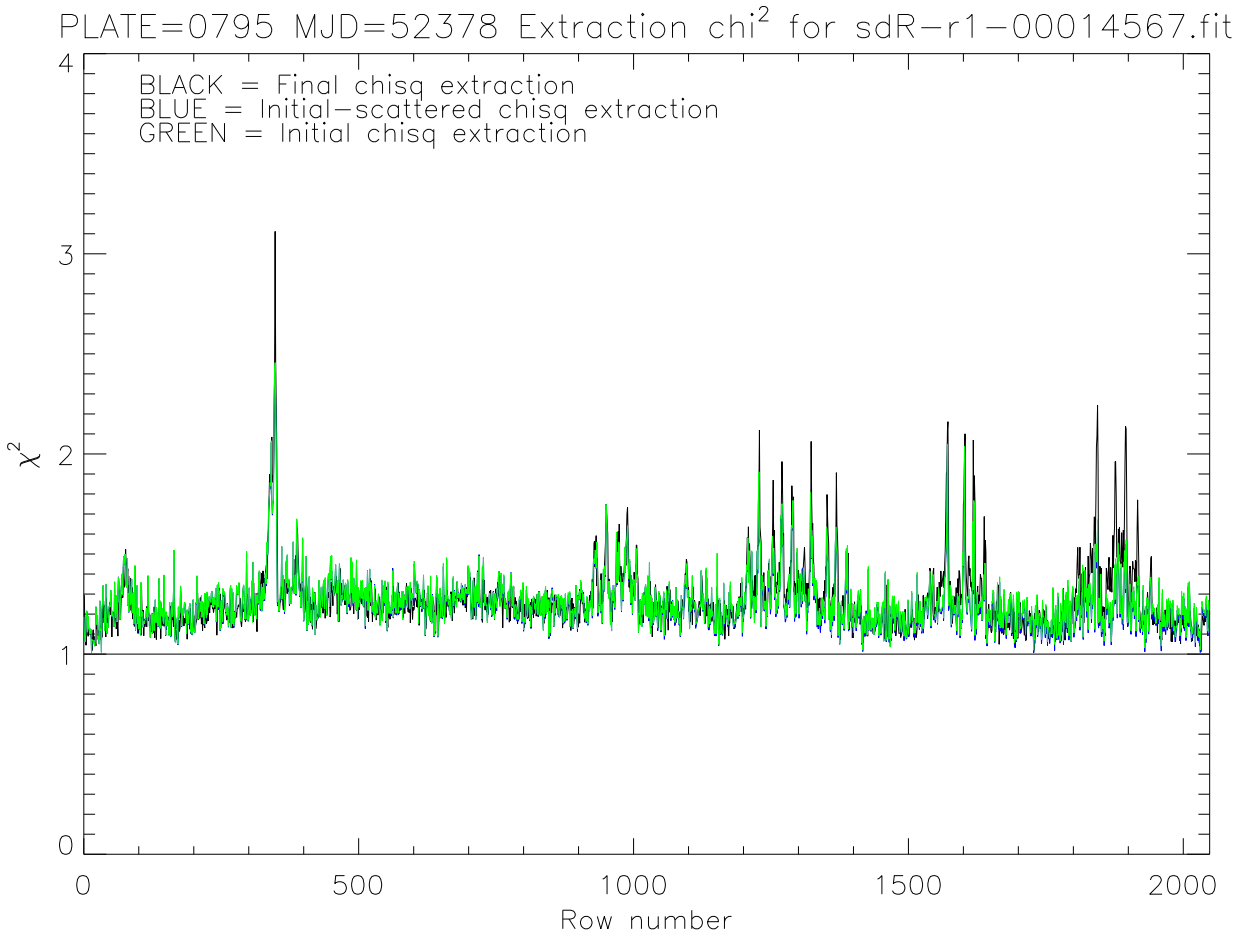

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.619
Max value = 1.418
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 04:57:41 2008

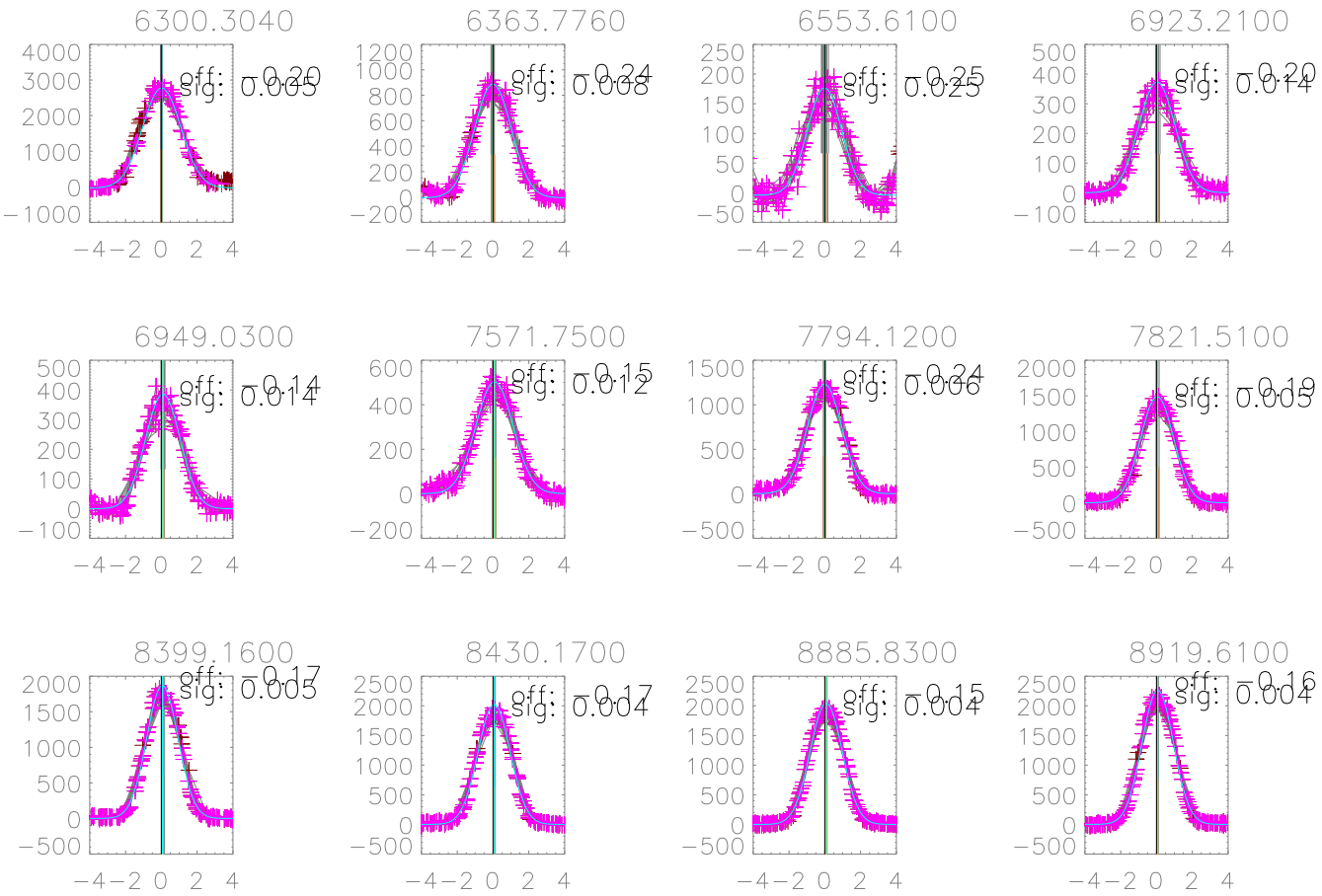

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014567.fi
24.5
19.1
13.6
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

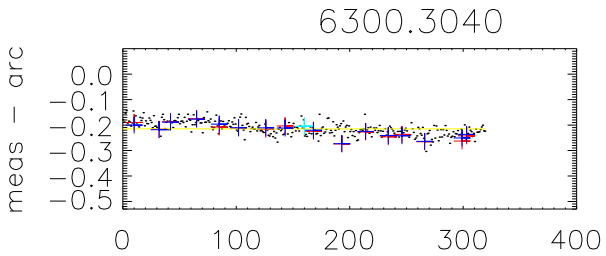

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014567.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.633
Max value = 23.720
Mon Feb 25 04:58:32 2008

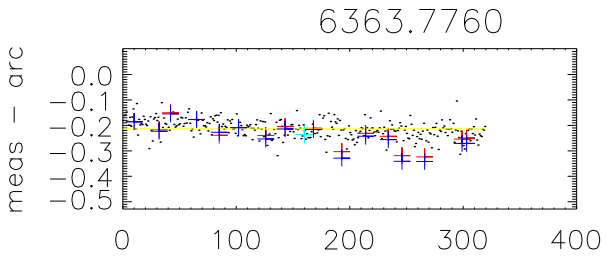

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014567.fit
5.5
5.5
5.5
5.5
5.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

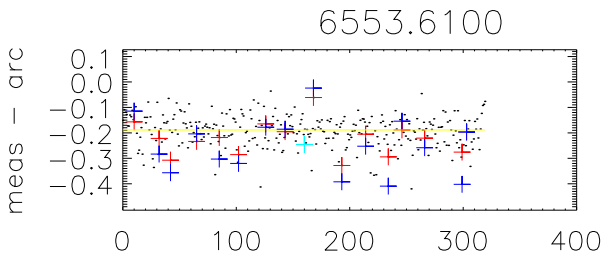

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014567.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 2.795
Max value = 7.774
Mon Feb 25 05:02:26 2008

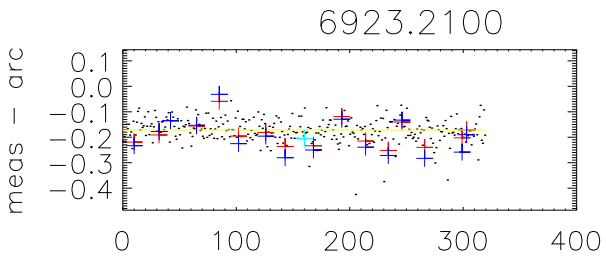

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r1−00014567.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

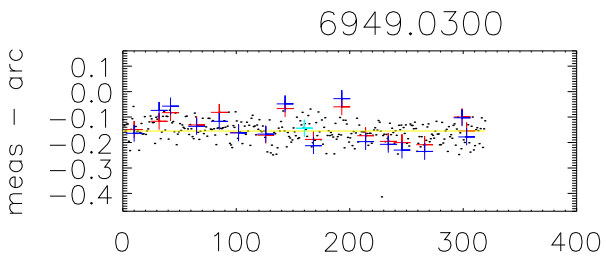

6300.3040
off: −0.20
sig: 0.005
6363.7760
off: −0.24
sig: 0.008
6553.6100
off: −0.25
sig: 0.025
6923.2100
off: −0.20
sig: 0.014
6949.0300
off: −0.14
sig: 0.014
7571.7500
off: −0.15
sig: 0.012
7794.1200
off: −0.24
sig: 0.006
7821.5100
off: −0.19
sig: 0.005
8399.1600
off: −0.17
sig: 0.005
8430.1700
off: −0.17
sig: 0.004
8885.8300
off: −0.15
sig: 0.004
8919.6100
off: −0.16
sig: 0.004

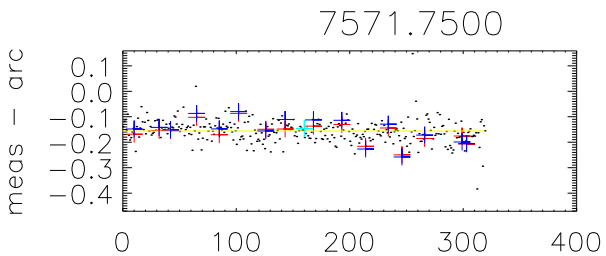

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

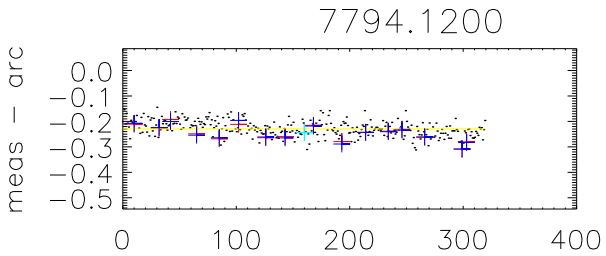

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

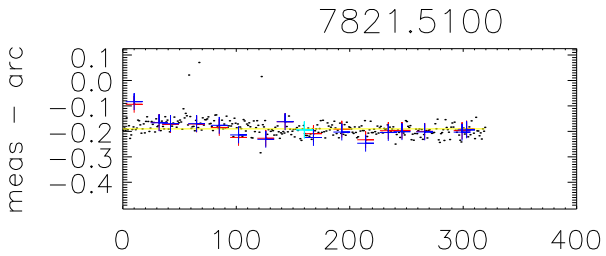

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

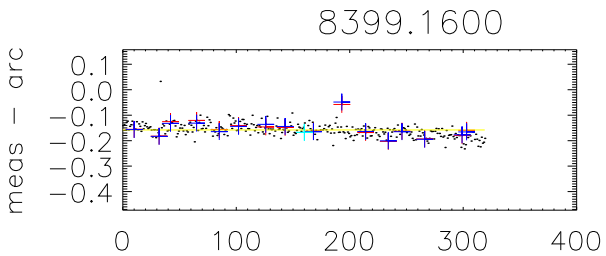

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

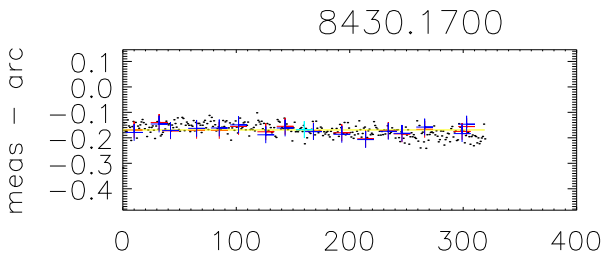

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

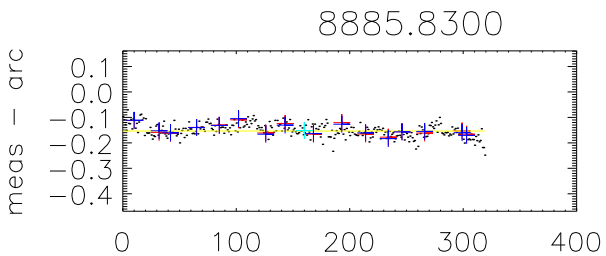

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

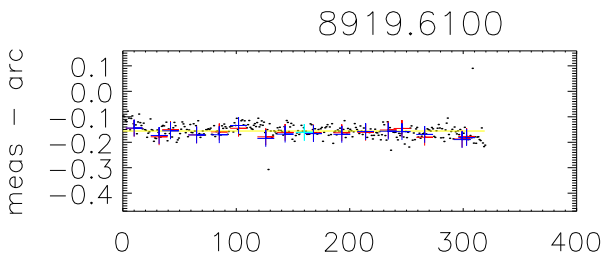

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

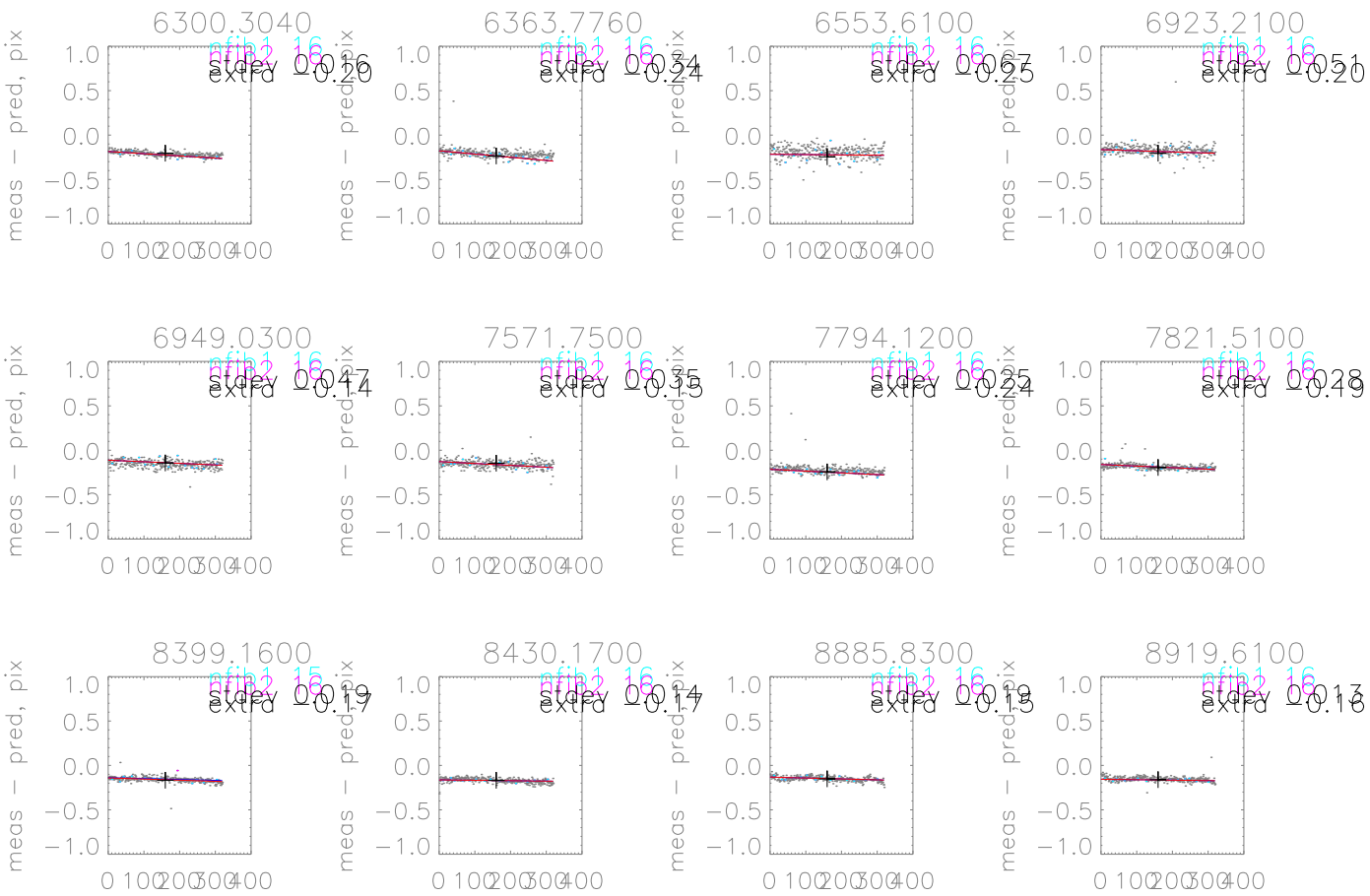

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

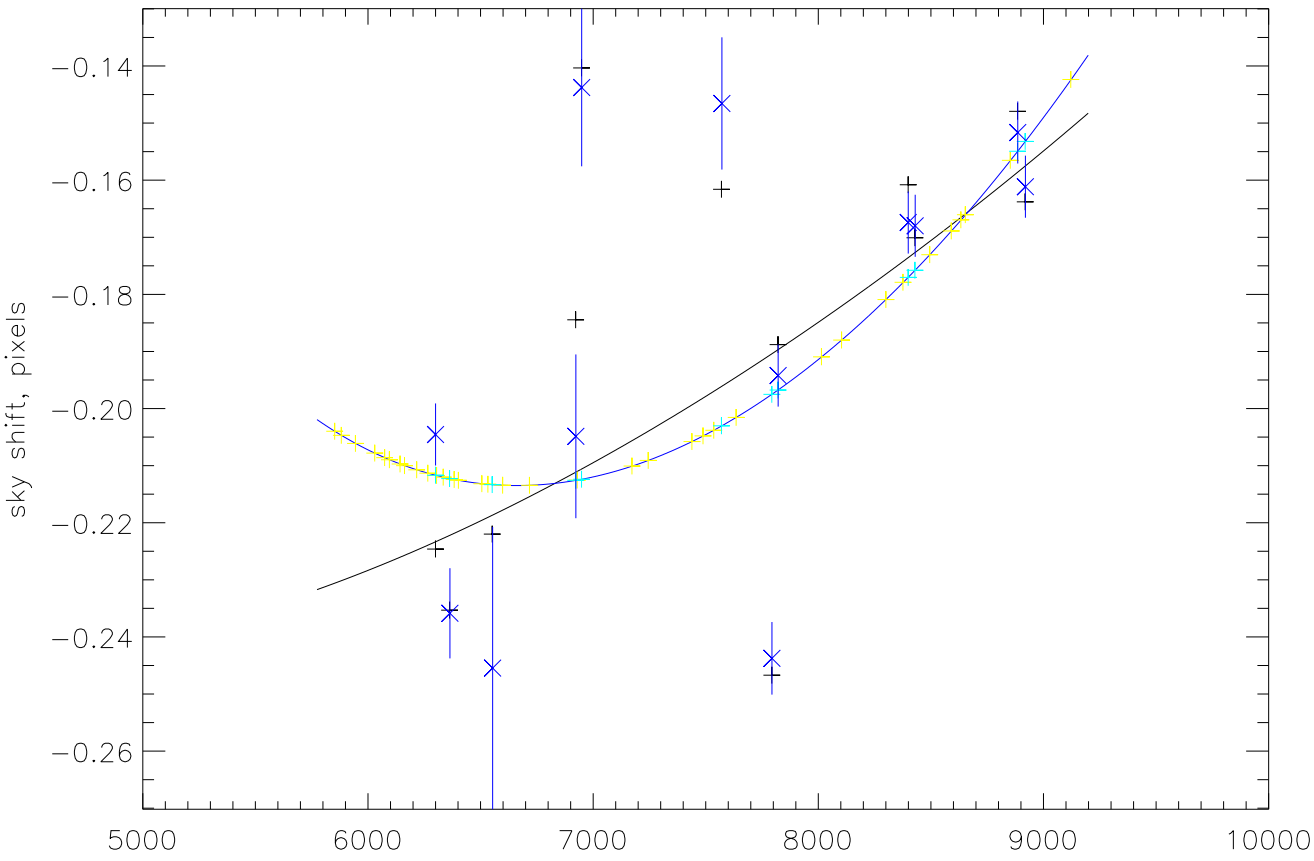

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

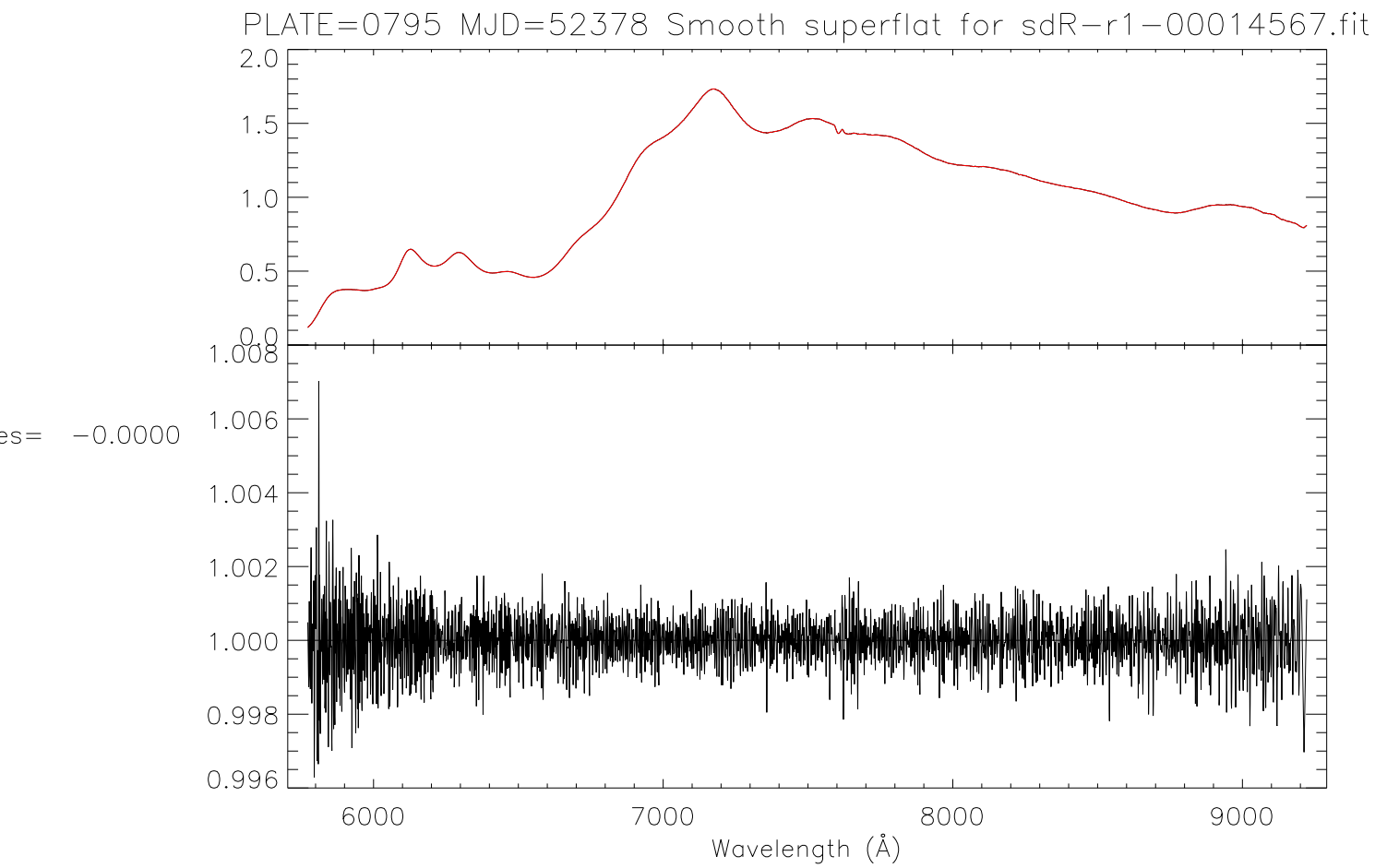

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

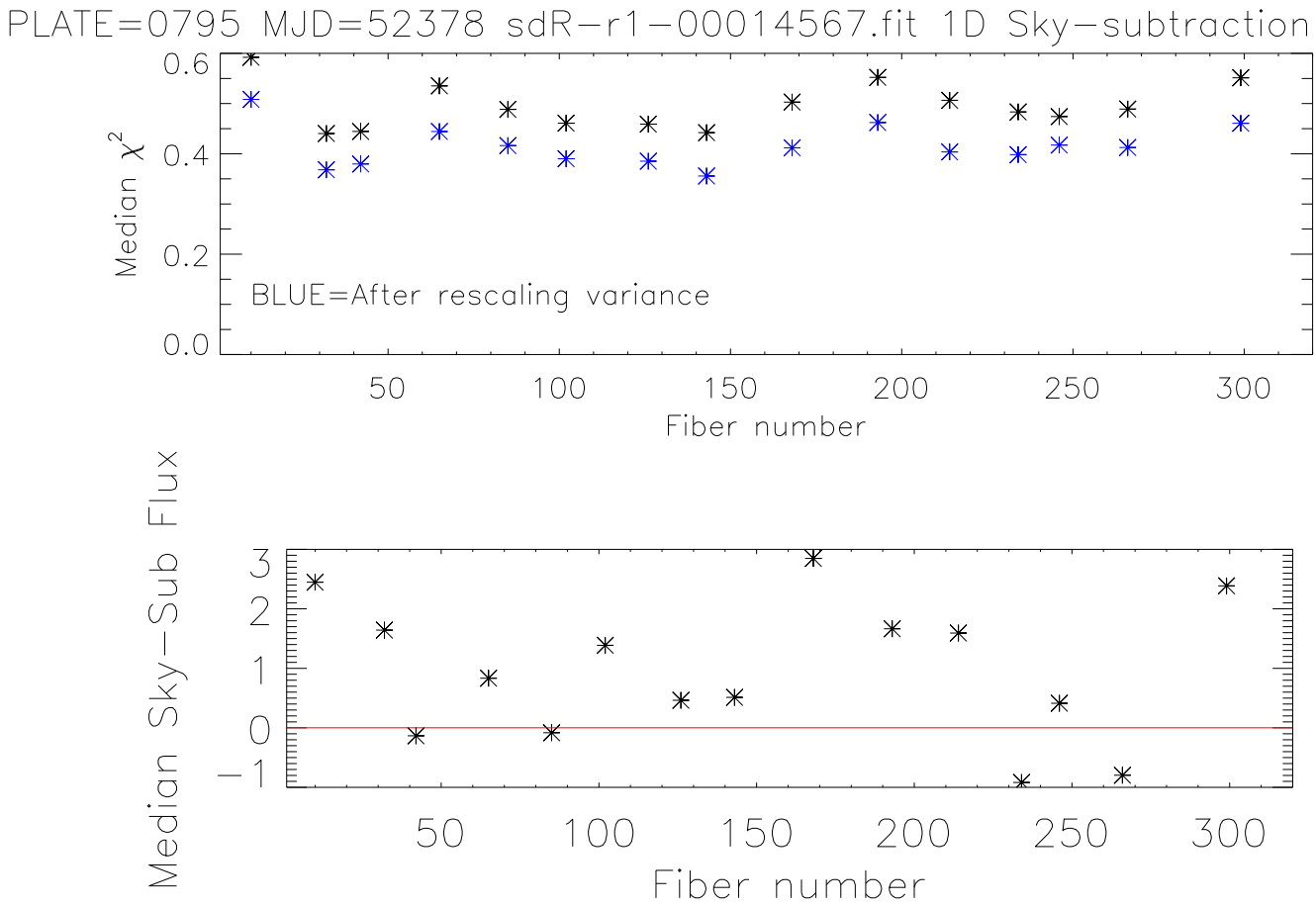

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

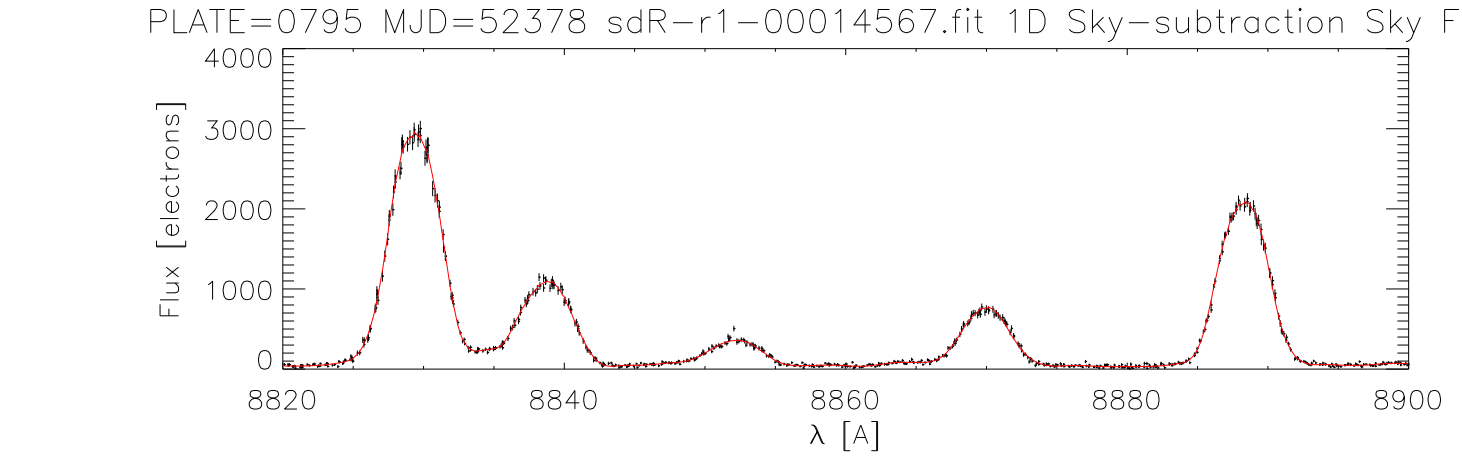

6300.3040
mfib1 16
mfib2 16
stdev 0.16
extra 0.20
6363.7760
mfib1 16
mfib2 16
stdev 0.14
extra 0.24
6553.6100
mfib1 16
mfib2 16
stdev 0.17
extra 0.25
6923.2100
mfib1 16
mfib2 16
stdev 0.11
extra 0.20
6949.0300
mfib1 16
mfib2 16
stdev 0.17
extra 0.14
7571.7500
mfib1 16
mfib2 16
stdev 0.15
extra 0.15
7794.1200
mfib1 16
mfib2 16
stdev 0.15
extra 0.24
7821.5100
mfib1 16
mfib2 16
stdev 0.18
extra 0.19
8399.1600
mfib1 15
mfib2 16
stdev 0.19
extra 0.17
8430.1700
mfib1 16
mfib2 16
stdev 0.14
extra 0.17
8885.8300
mfib1 16
mfib2 16
stdev 0.19
extra 0.15
8919.6100
mfib1 16
mfib2 16
stdev 0.13
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

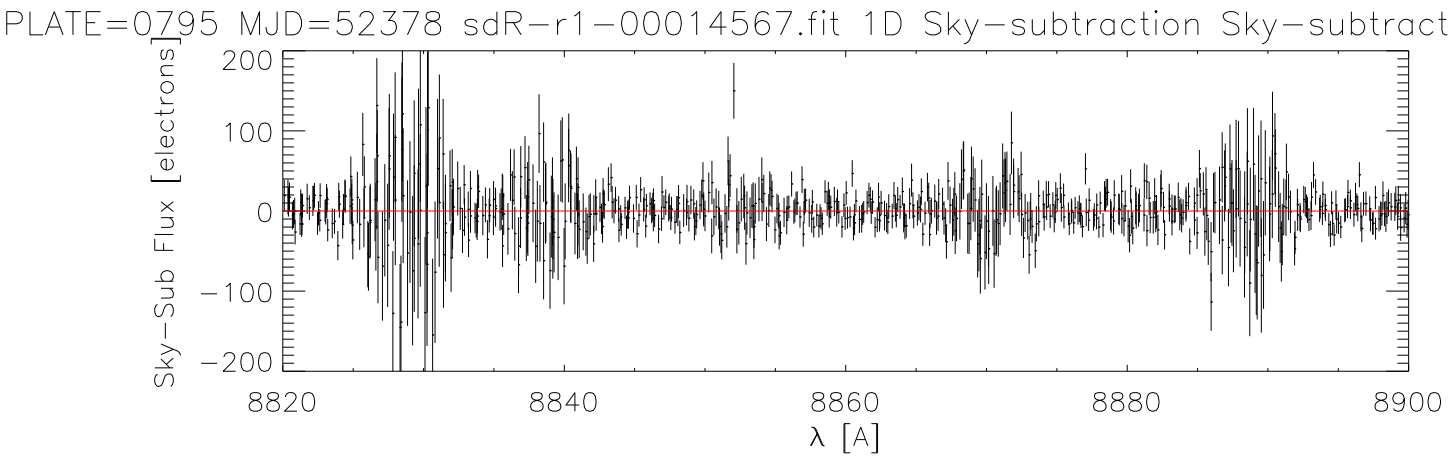

sky shift, pixels
−0.14
−0.16
−0.18
−0.20
−0.22
−0.24
−0.26
5000
6000
7000
8000
9000
10000

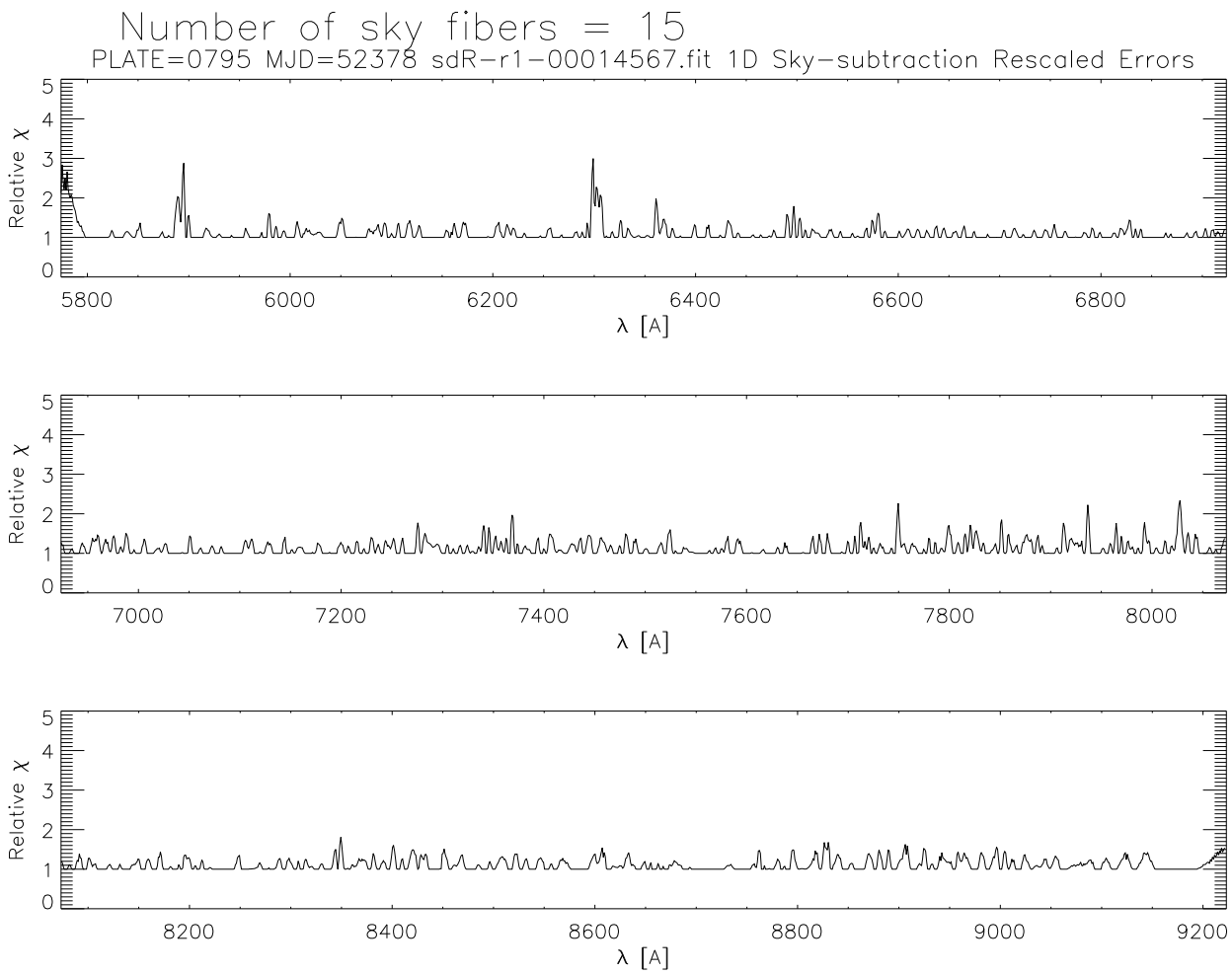

PLATE=0795 MJD=52378 Smooth superflat for sdR−r1−00014567.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

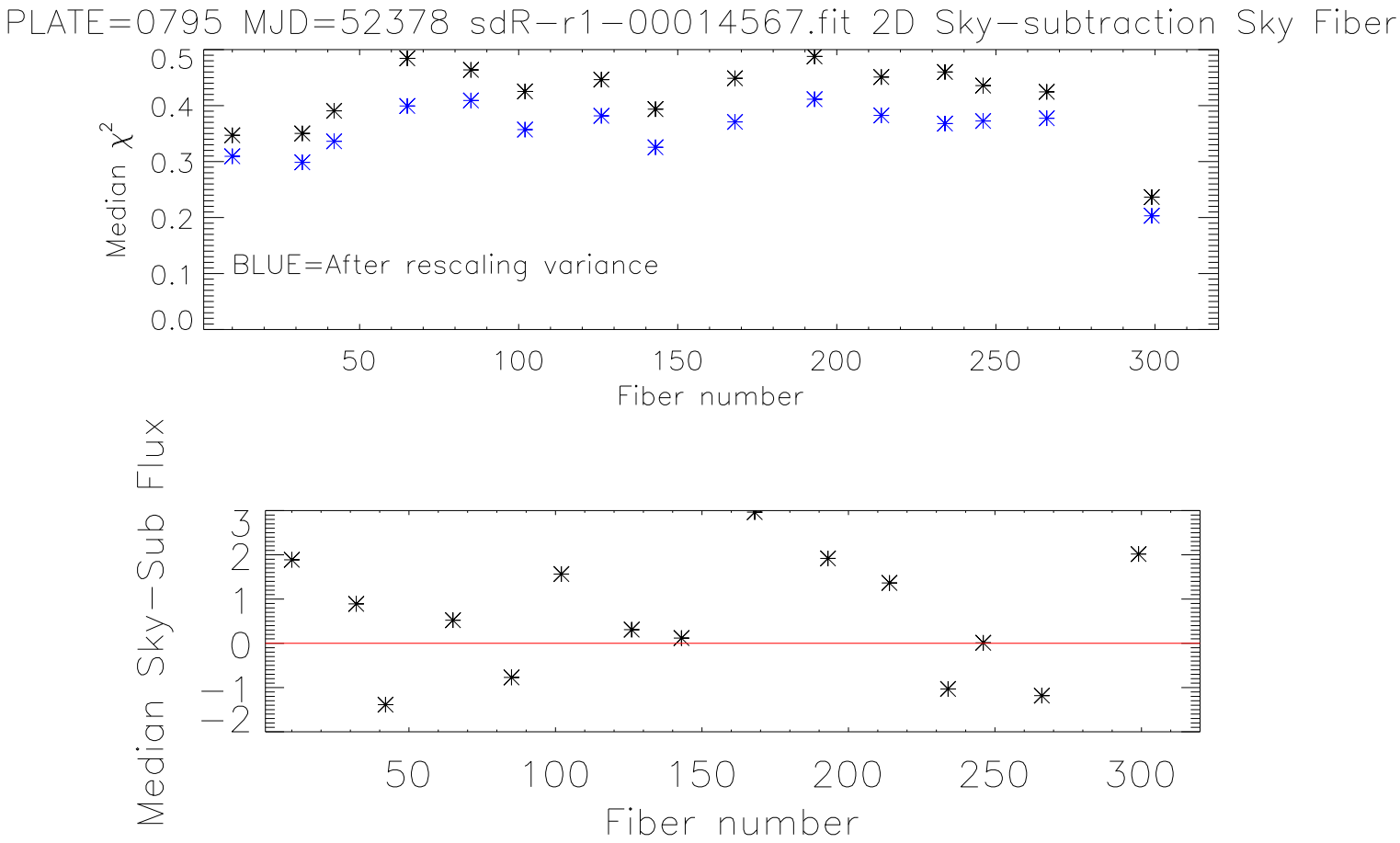
es= −0.0000

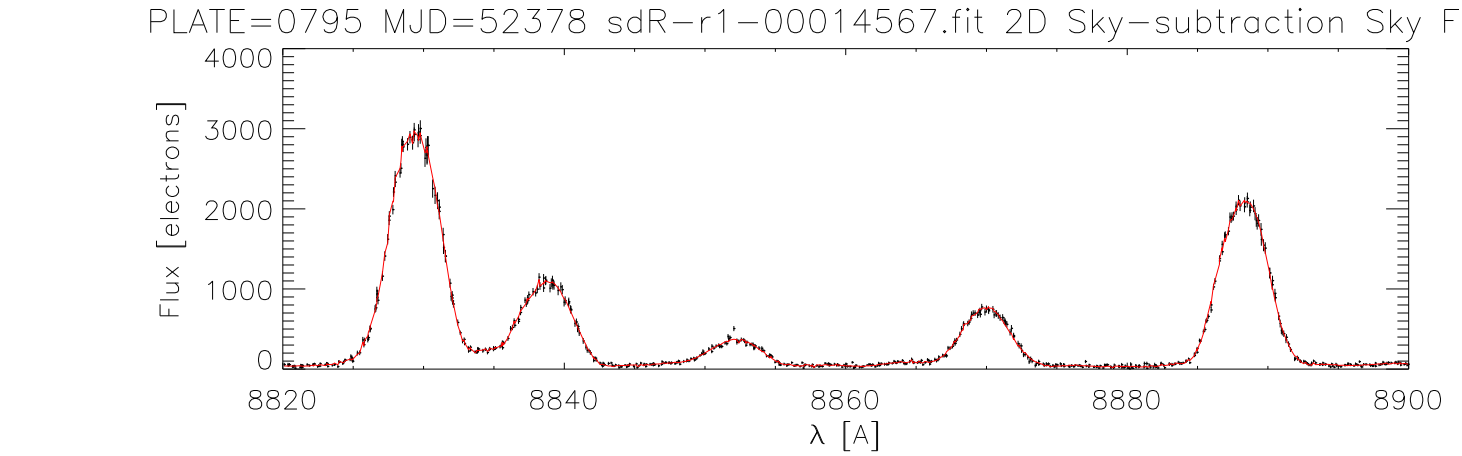

PLATE=0795 MJD=52378 sdR-r1-00014567.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

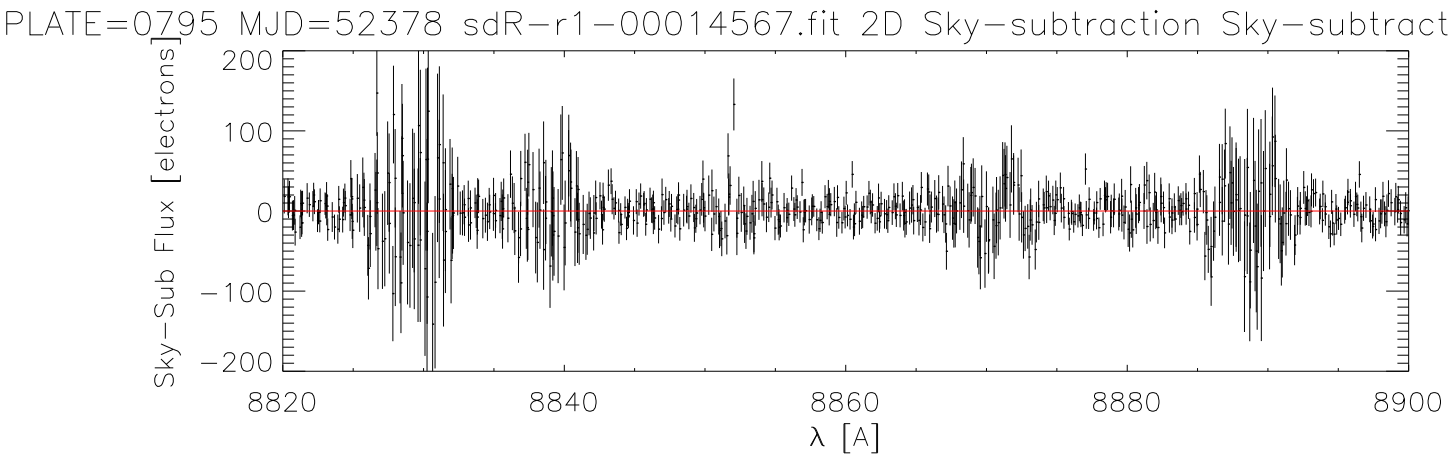

PLATE=0795 MJD=52378 sdR-r1-00014567.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

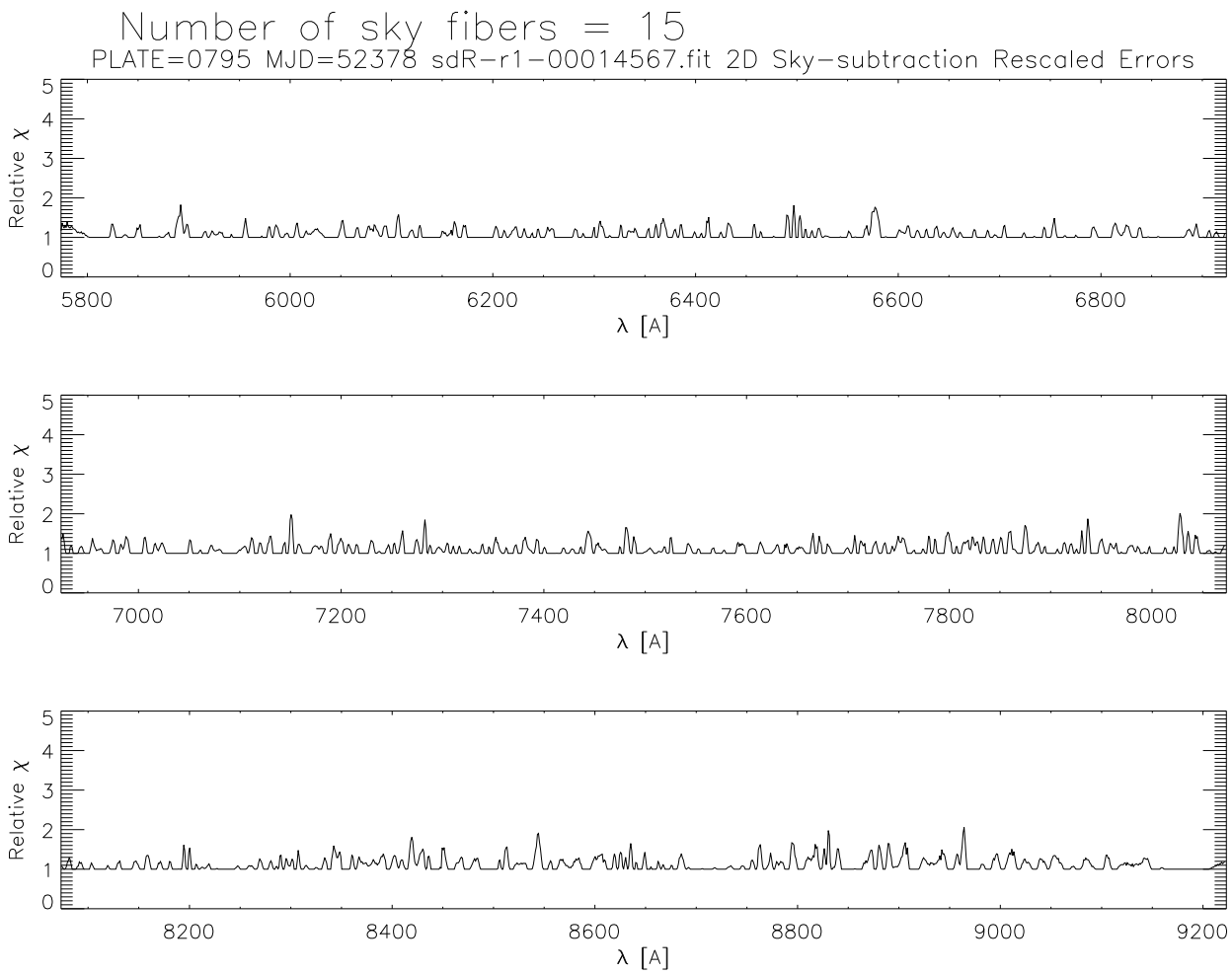

PLATE=0795 MJD=52378 sdR-r1-00014567.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

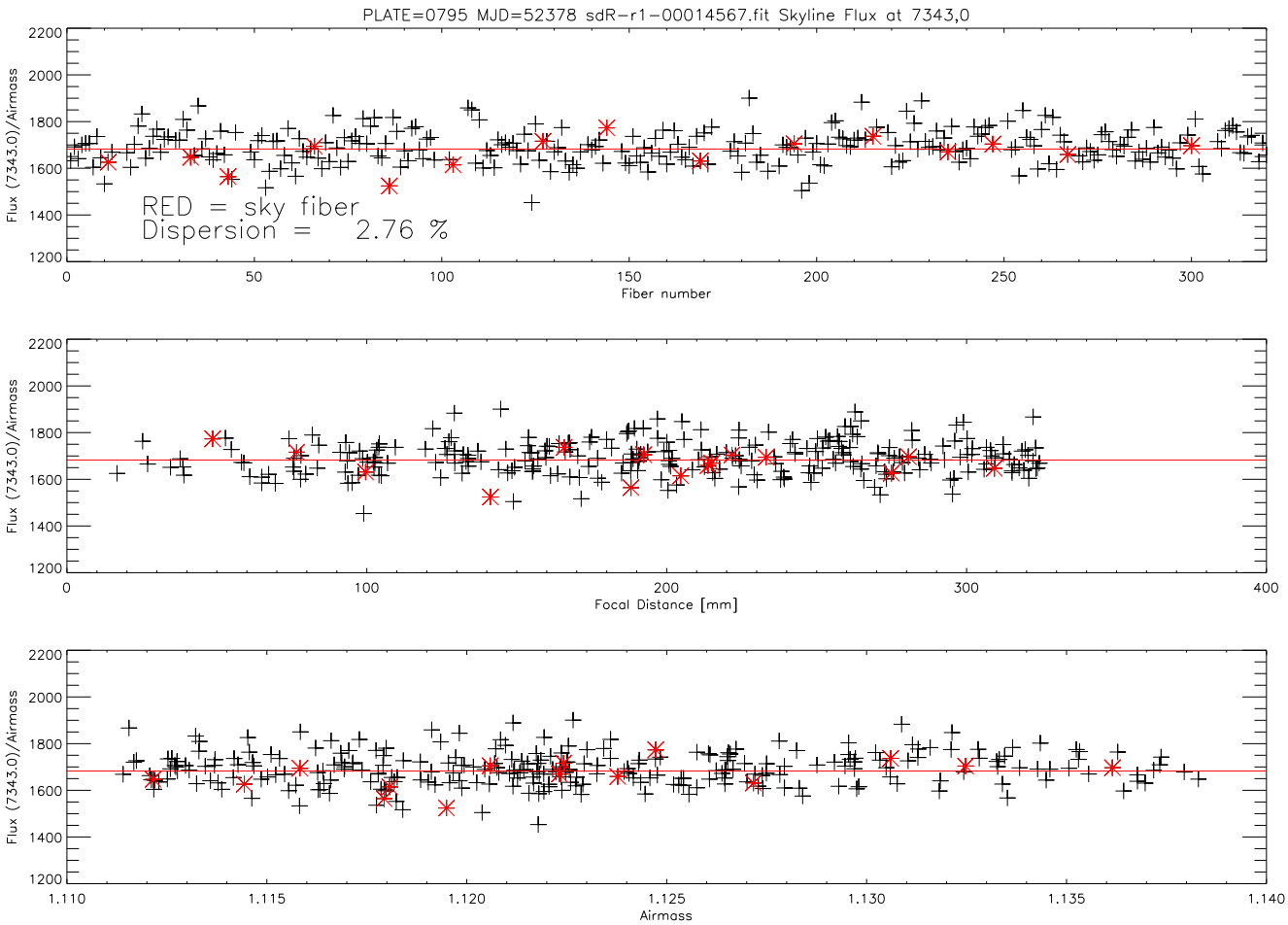

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014567.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

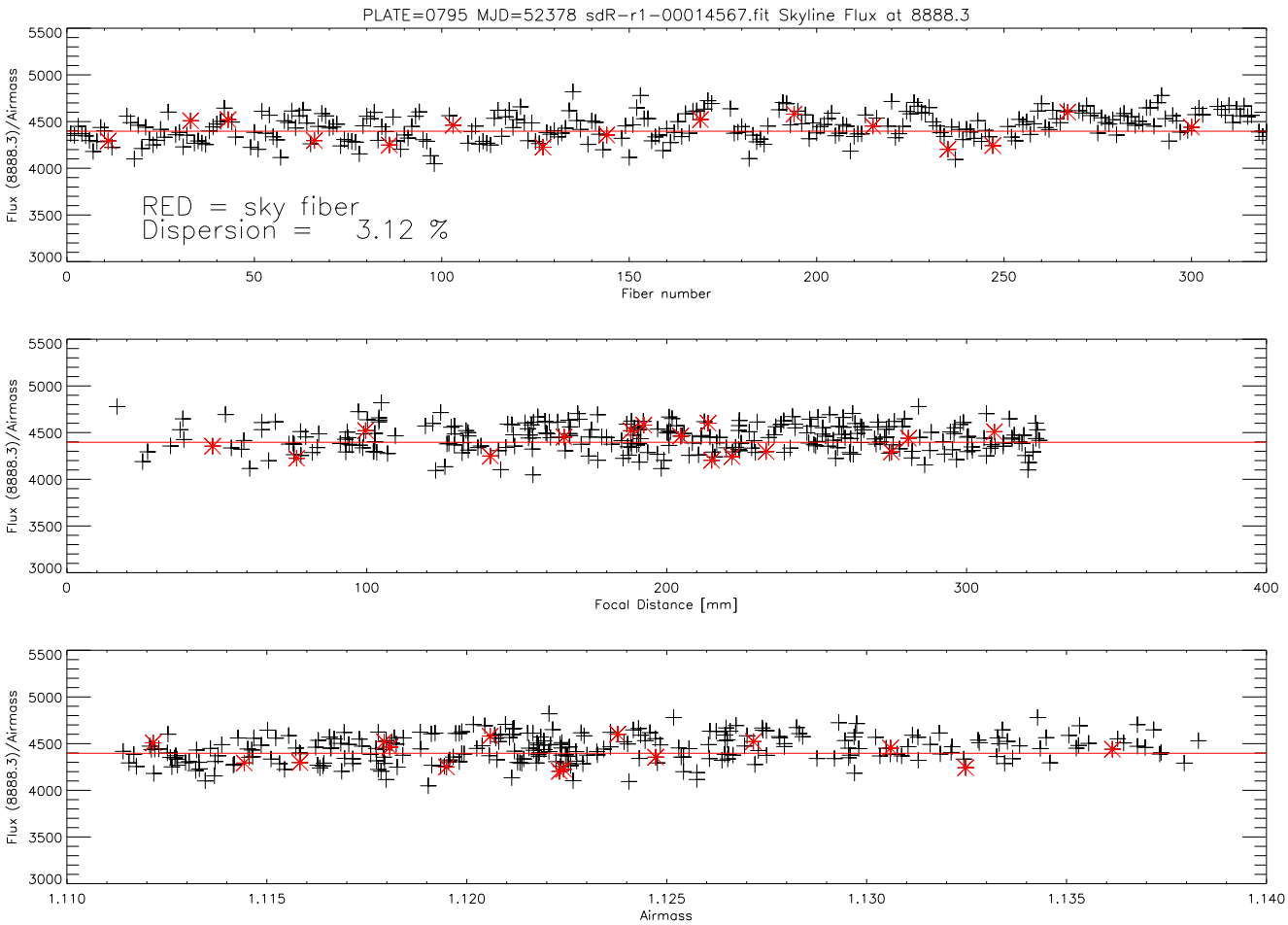

PLATE=0795 MJD=52378 sdR-r1-00014567.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

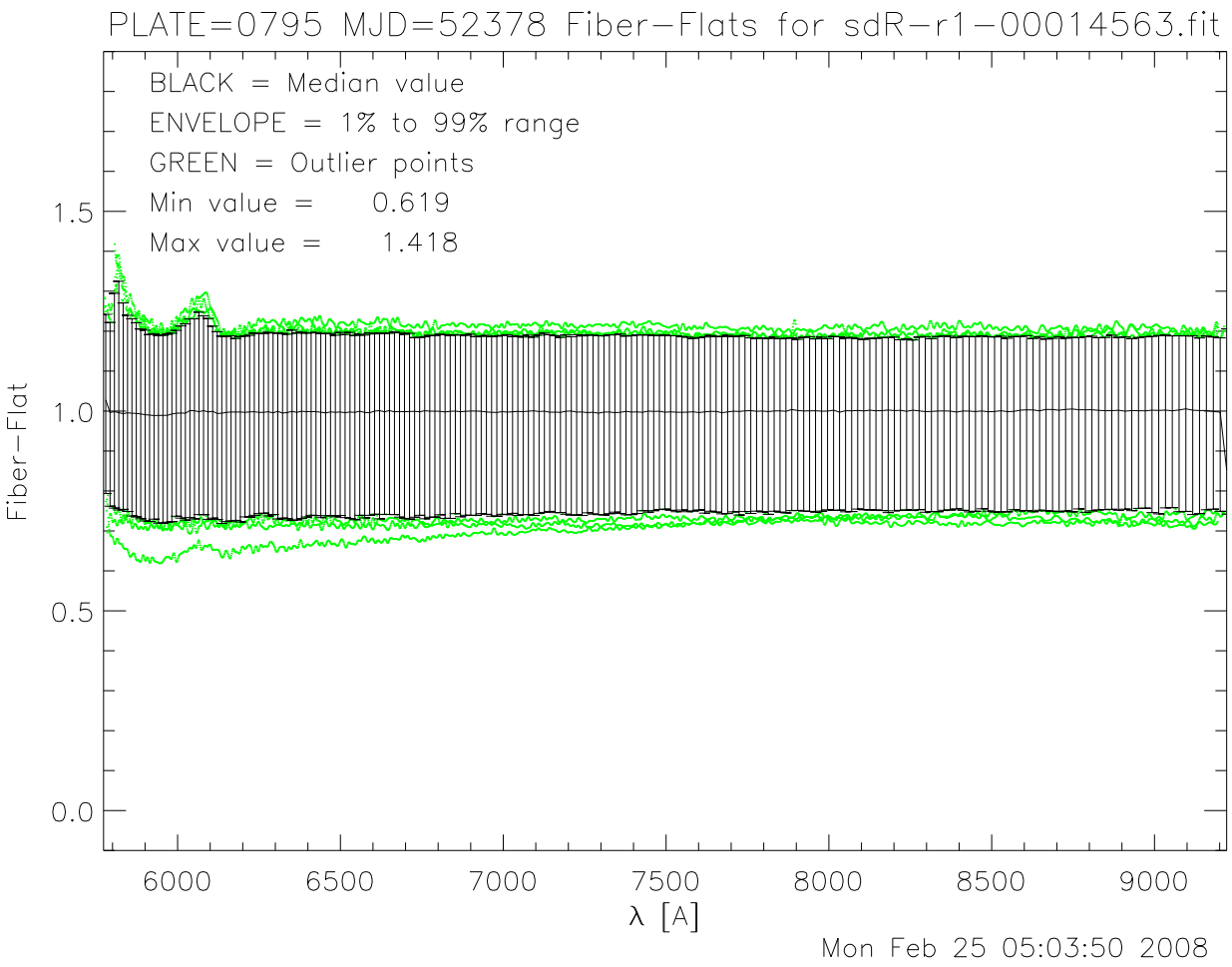

PLATE=0795 MJD=52378 sdR-r1-00014567.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

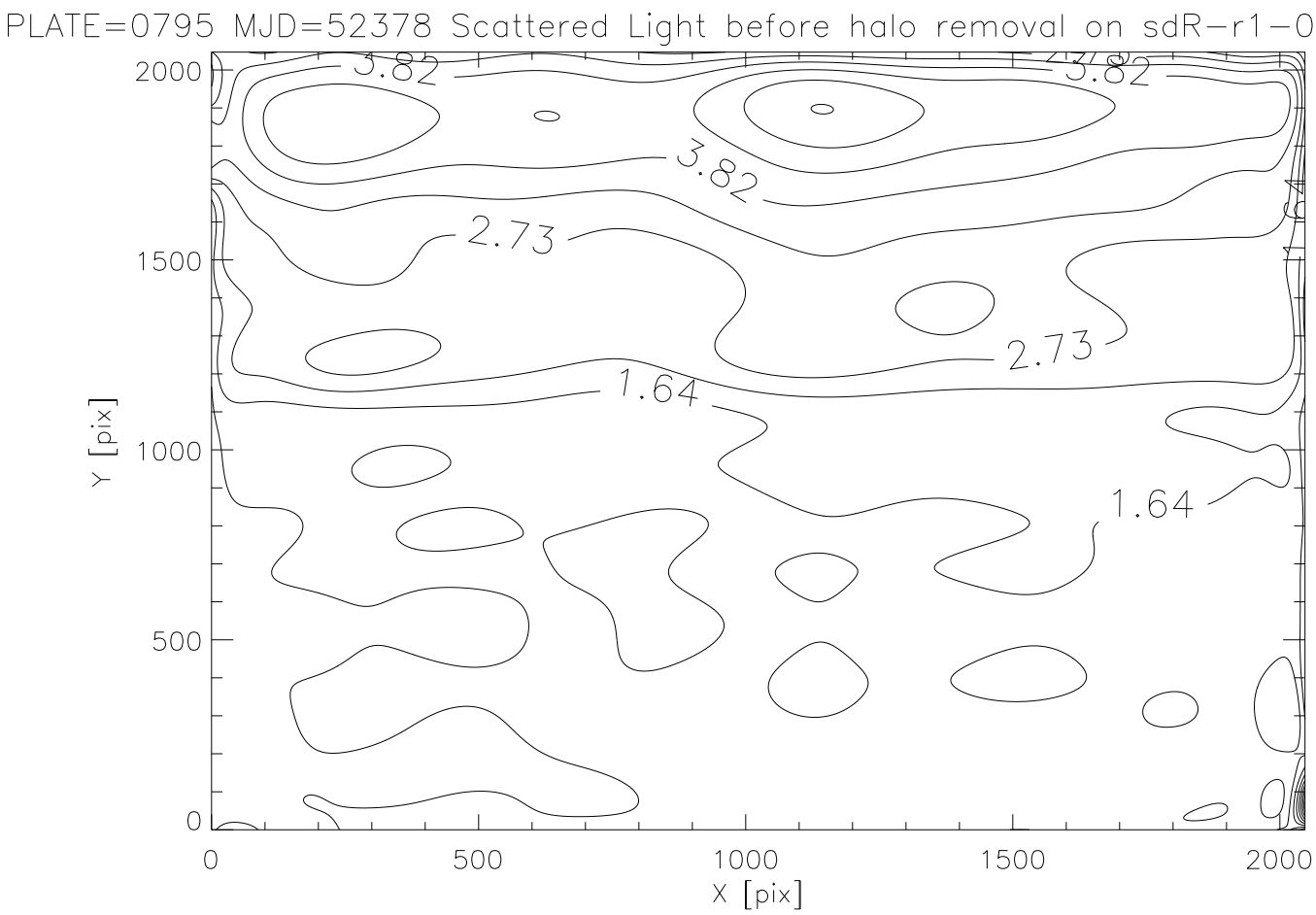

PLATE=0795 MJD=52378 sdR-r1-00014567.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

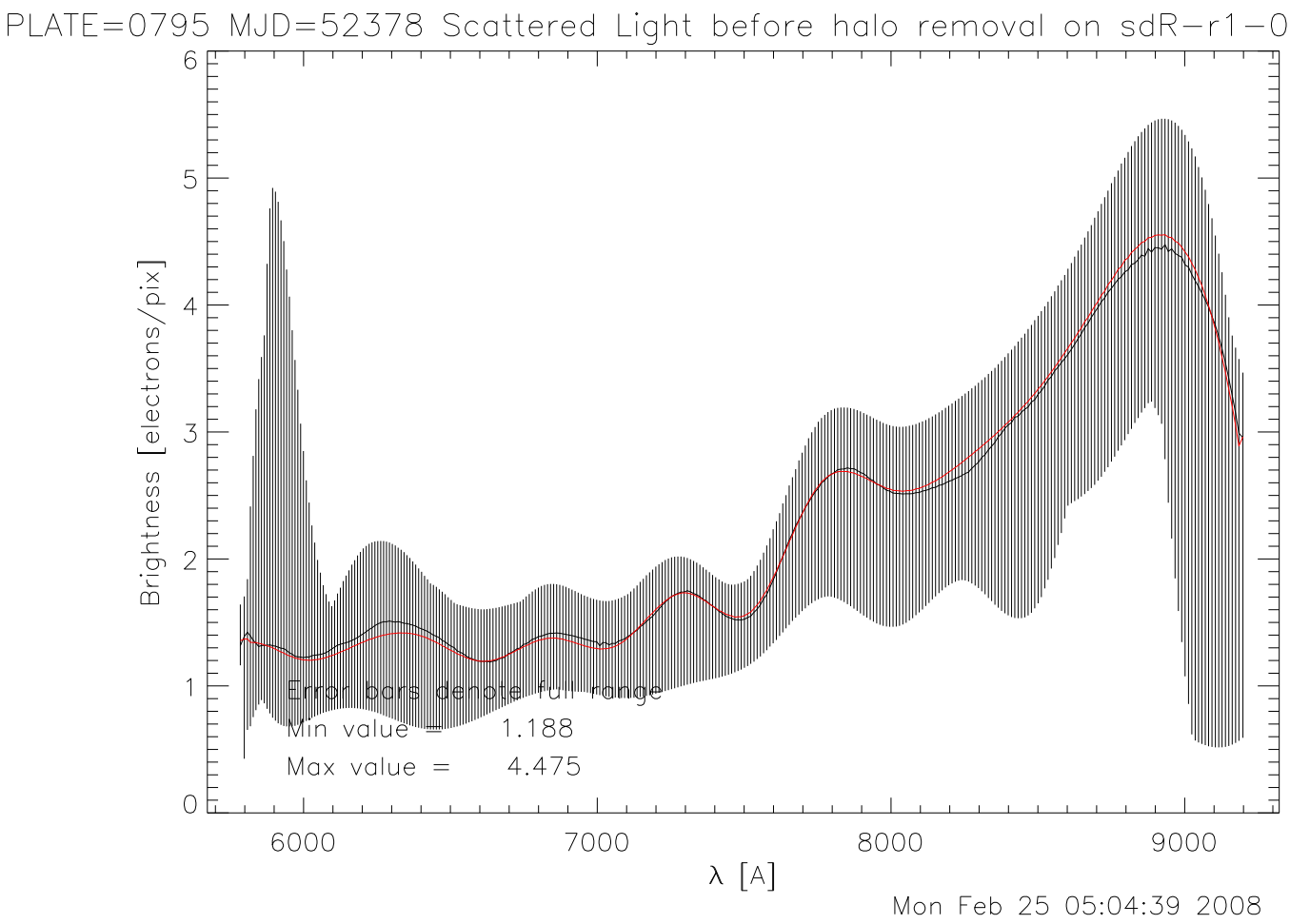

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014567.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

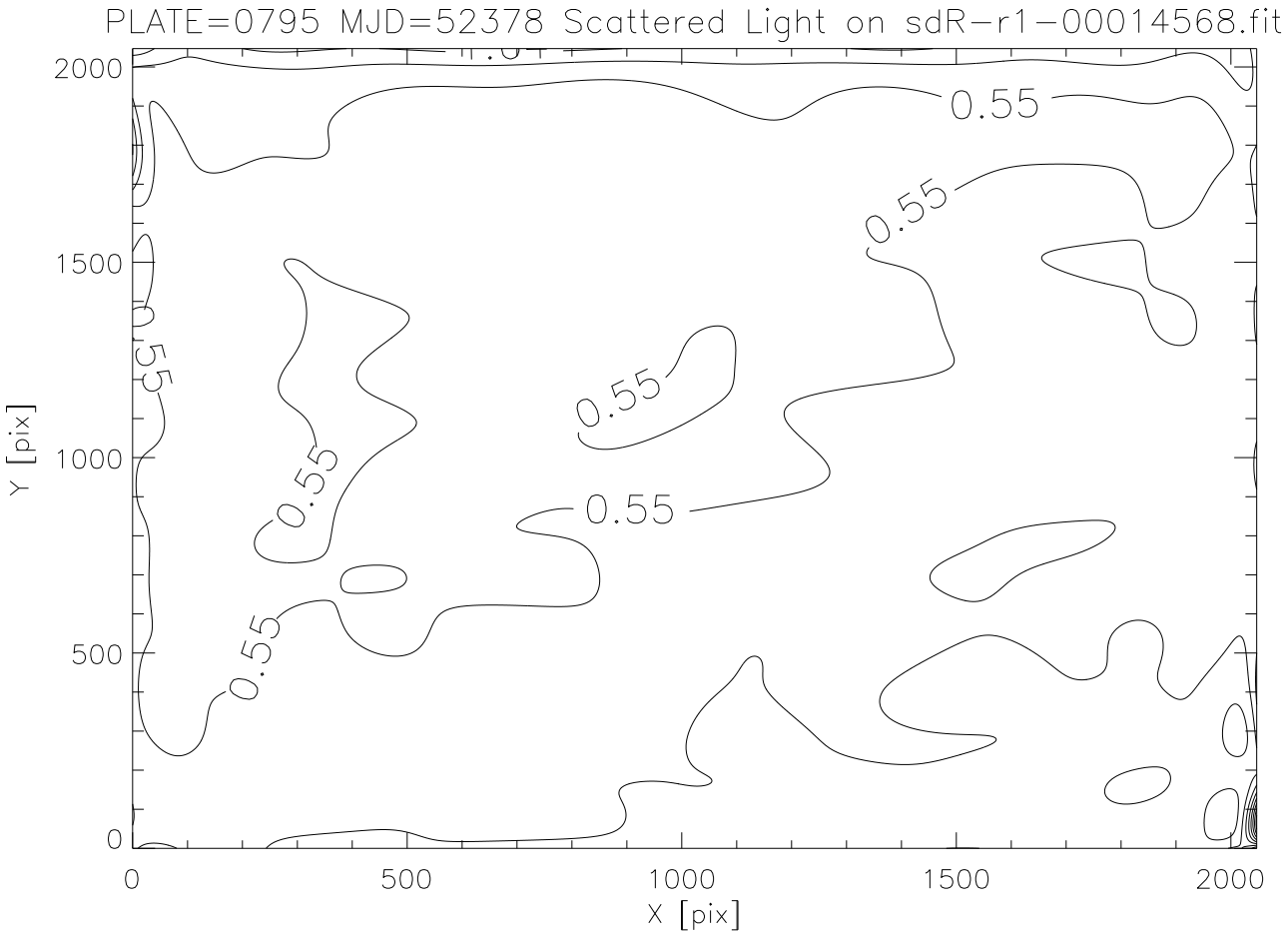

PLATE=0795 MJD=52378 sdR-r1-00014567.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.76 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

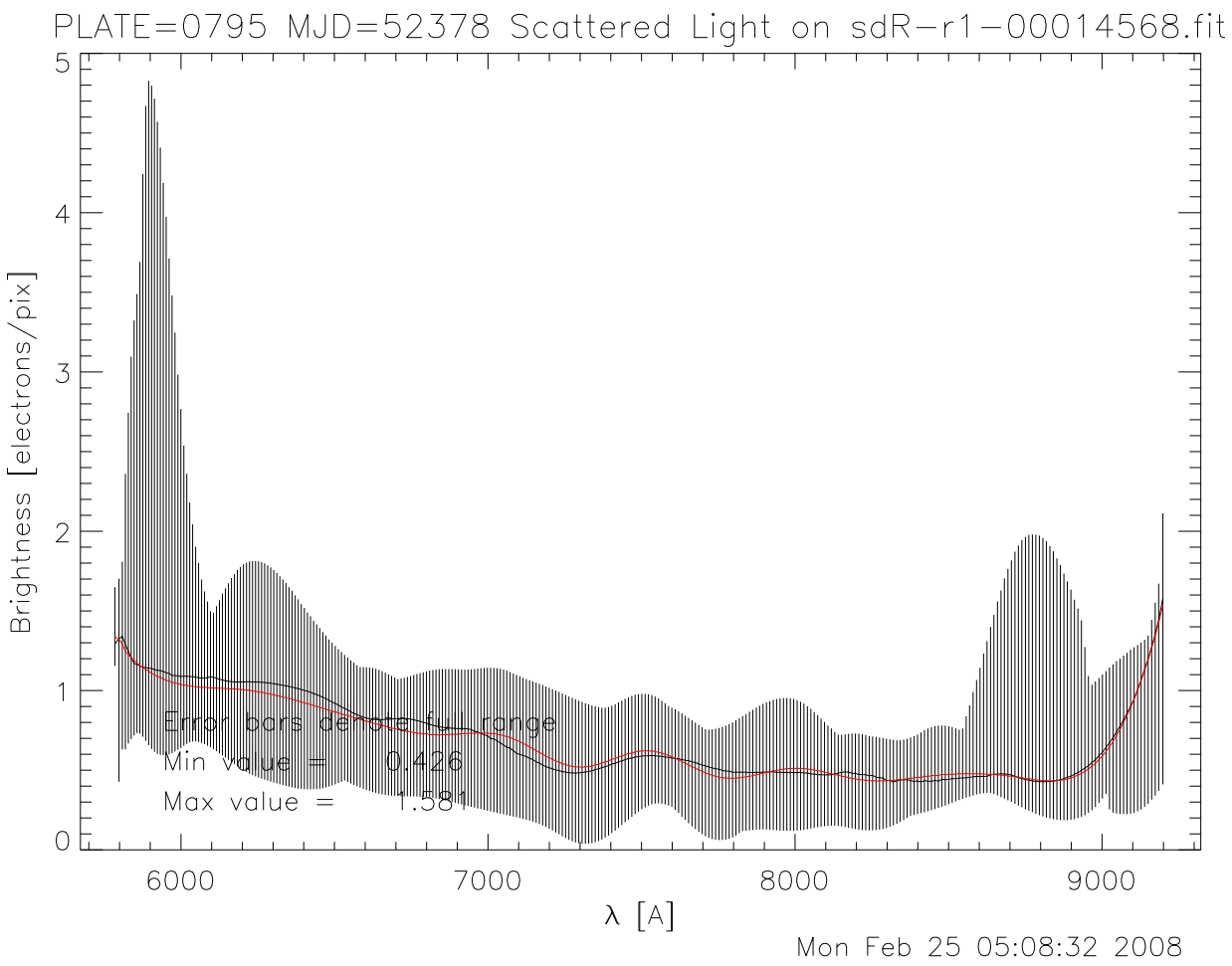

PLATE=0795 MJD=52378 sdR-r1-00014567.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.12 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

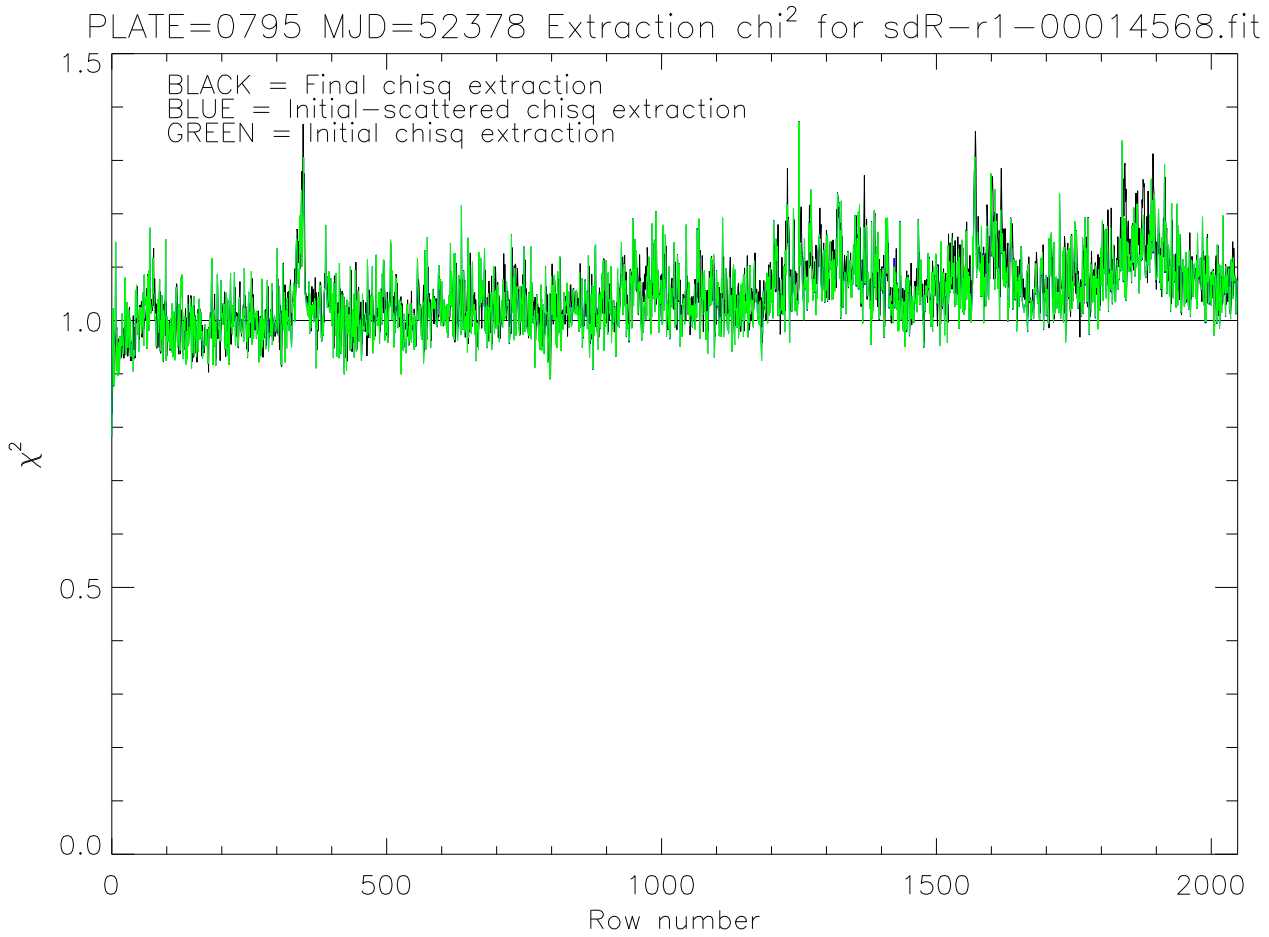

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.619
Max value = 1.418
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 05:03:50 2008

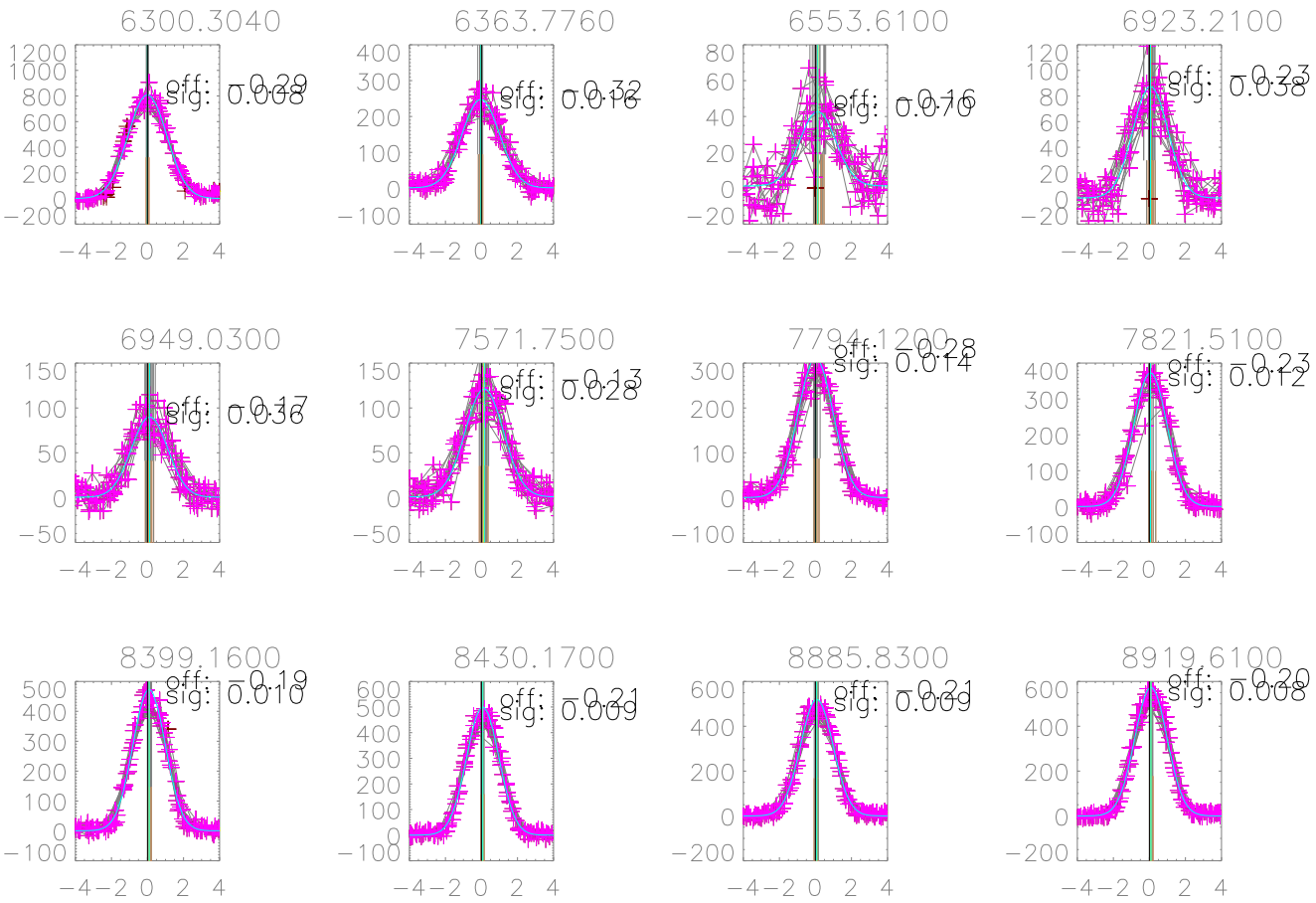

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014568.fi
3.82
3.82
3.82
2.73
2.73
1.64
1.64
0
500
1000
1500
2000
Y [pix]
X [pix]

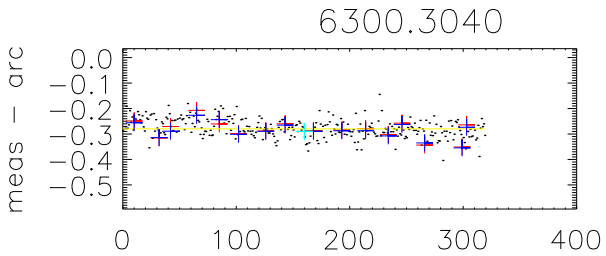

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014568.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.188
Max value = 4.475
Mon Feb 25 05:04:39 2008

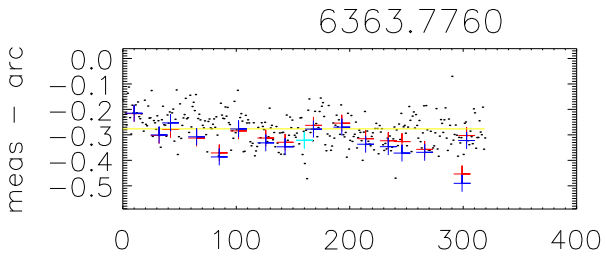

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014568.fit
0.55
0.55
0.55
0.55
0.55
0.55
Y [pix]
X [pix]
0
500
1000
1500
2000

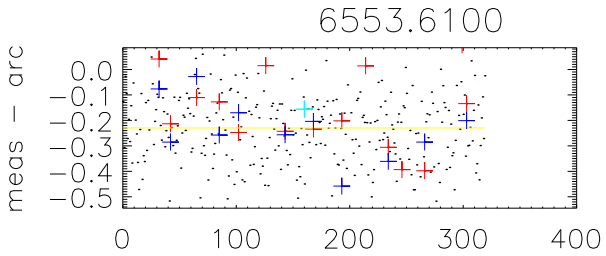

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014568.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.426
Max value = 1.581
Mon Feb 25 05:08:32 2008

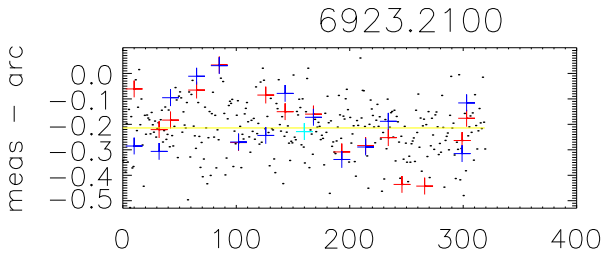

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r1−00014568.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
1.5
1.0
0.5
0.0
χ^2
0
500
1000
1500
2000
Row number

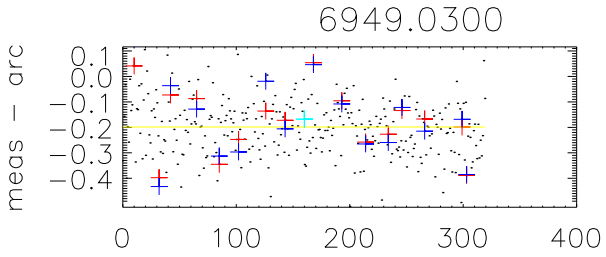

6300.3040
off: −0.29
sig: 0.008
6363.7760
off: −0.32
sig: 0.016
6553.6100
off: −0.16
sig: 0.070
6923.2100
off: −0.23
sig: 0.038
6949.0300
off: −0.17
sig: 0.036
7571.7500
off: −0.13
sig: 0.028
7794.1200
off: −0.28
sig: 0.014
7821.5100
off: −0.23
sig: 0.012
8399.1600
off: −0.19
sig: 0.010
8430.1700
off: −0.21
sig: 0.009
8885.8300
off: −0.21
sig: 0.009
8919.6100
off: −0.20
sig: 0.008

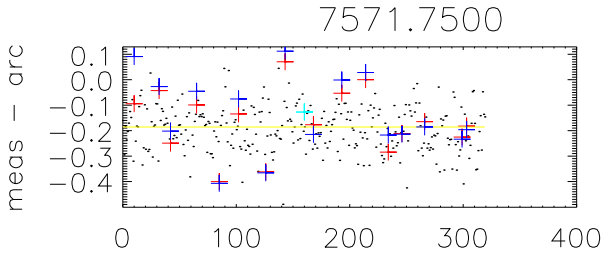

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

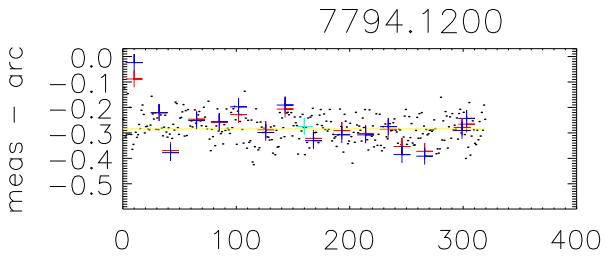

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

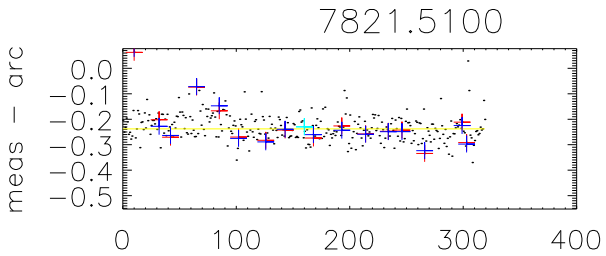

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

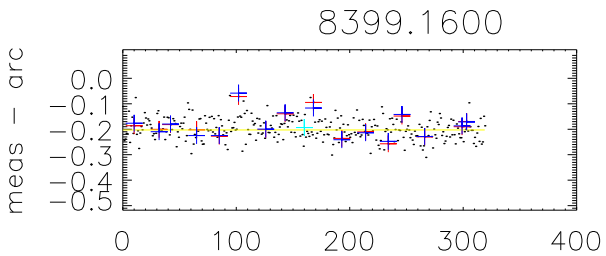

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

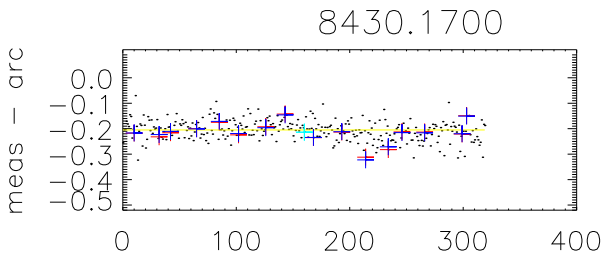

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

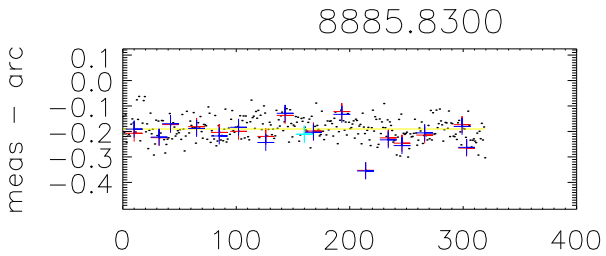

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

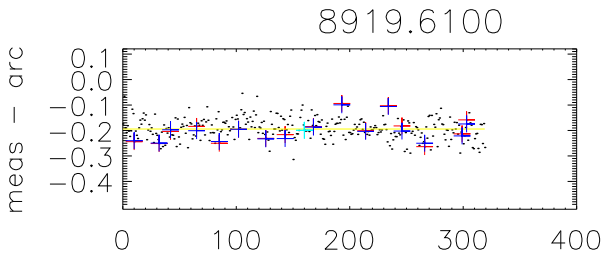

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

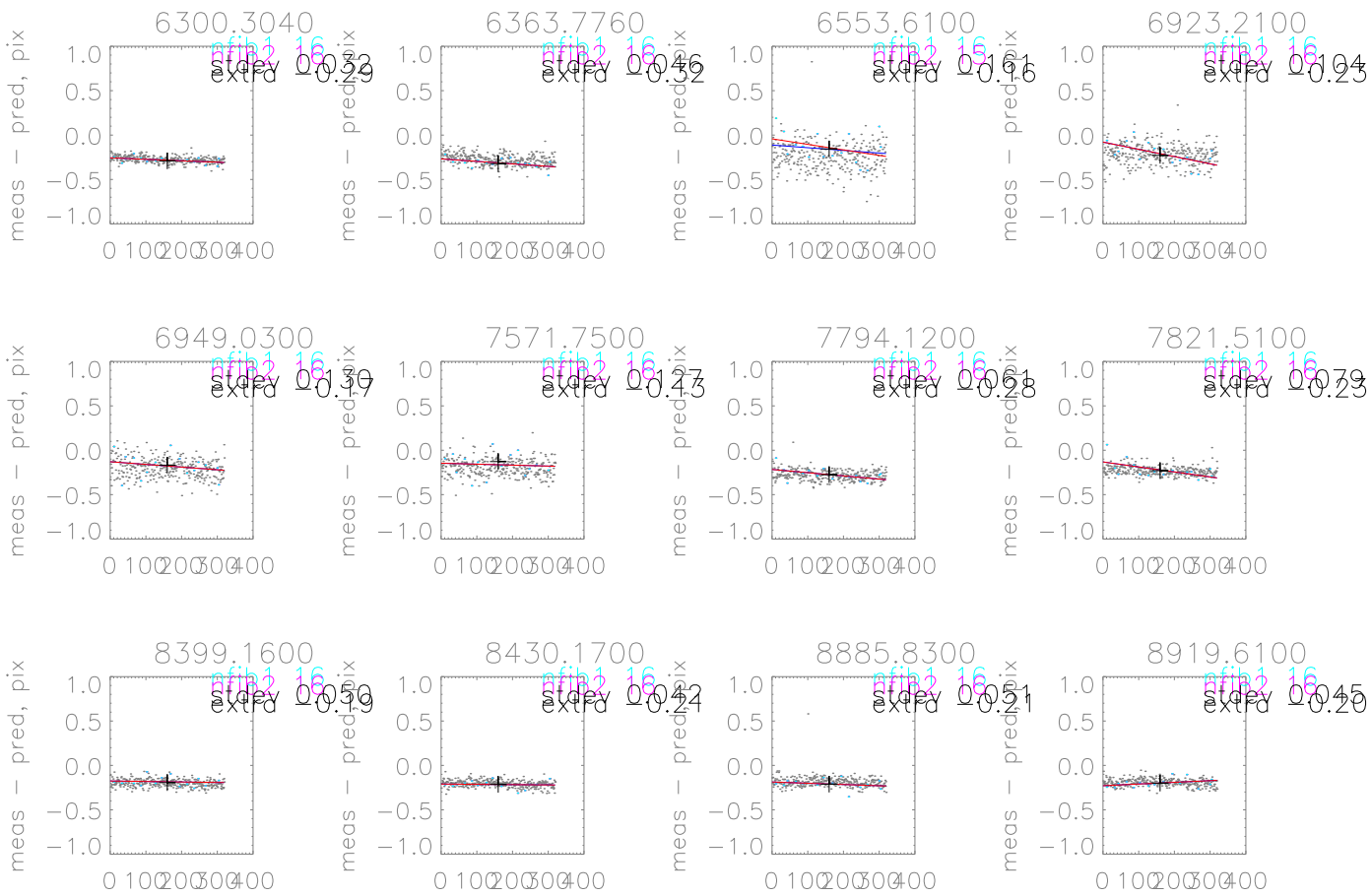

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

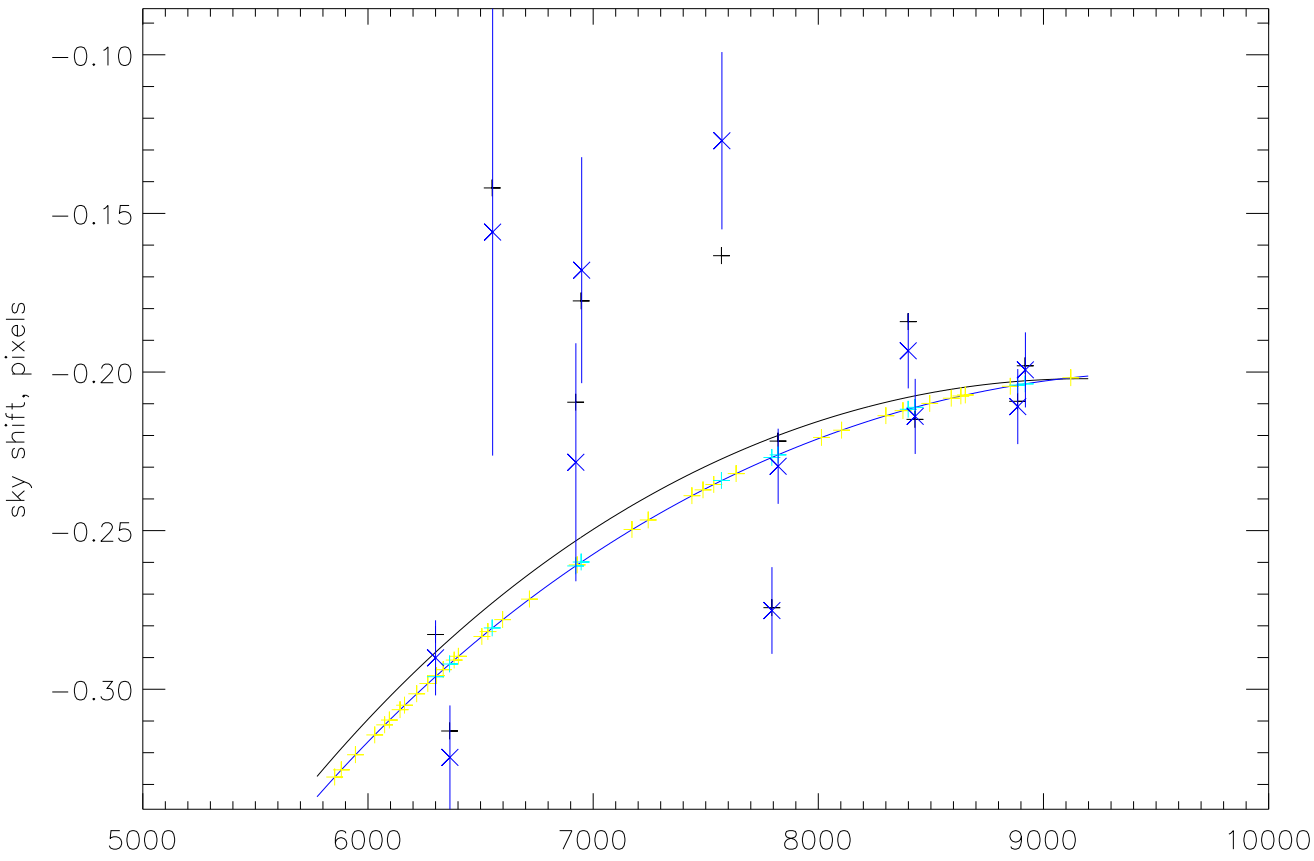

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

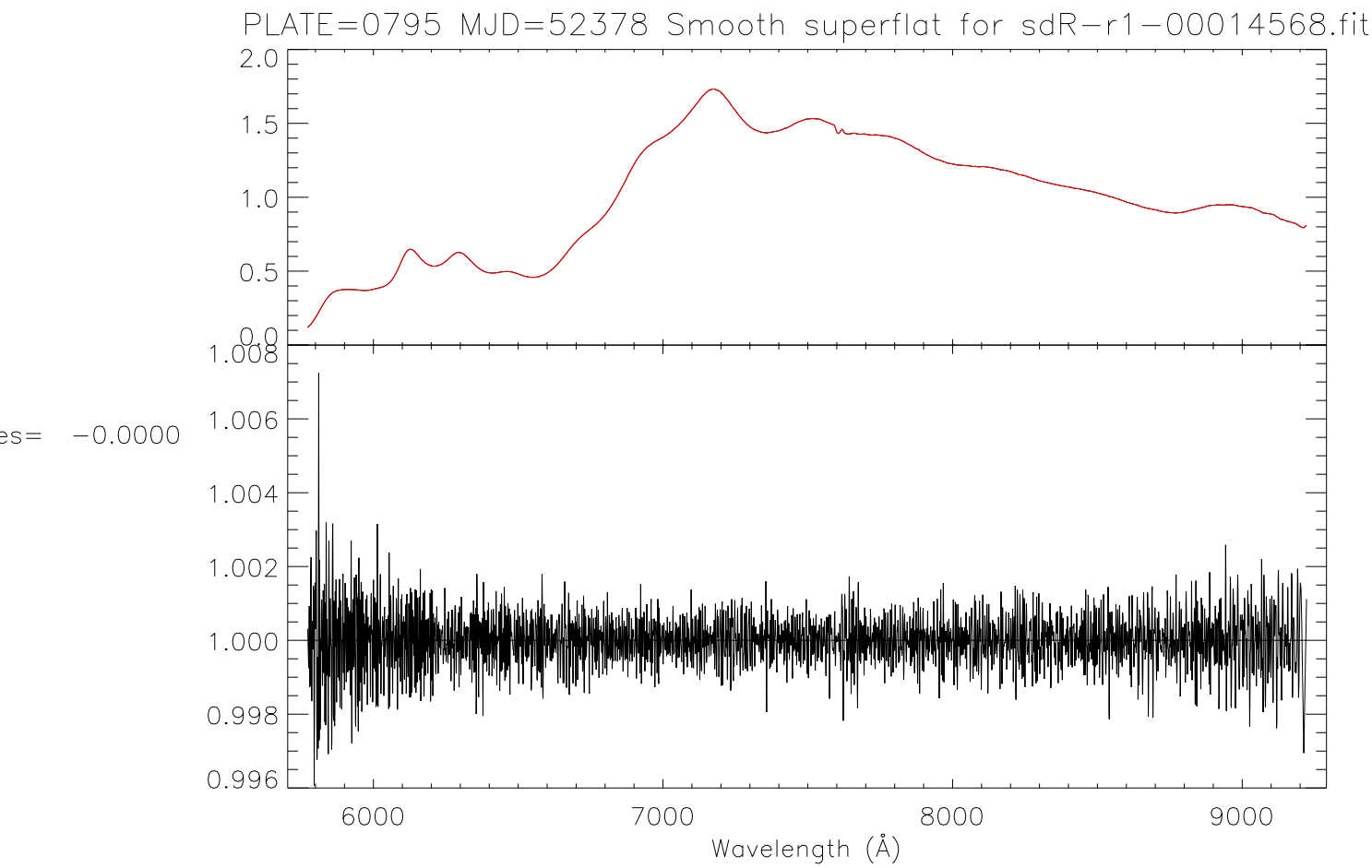

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

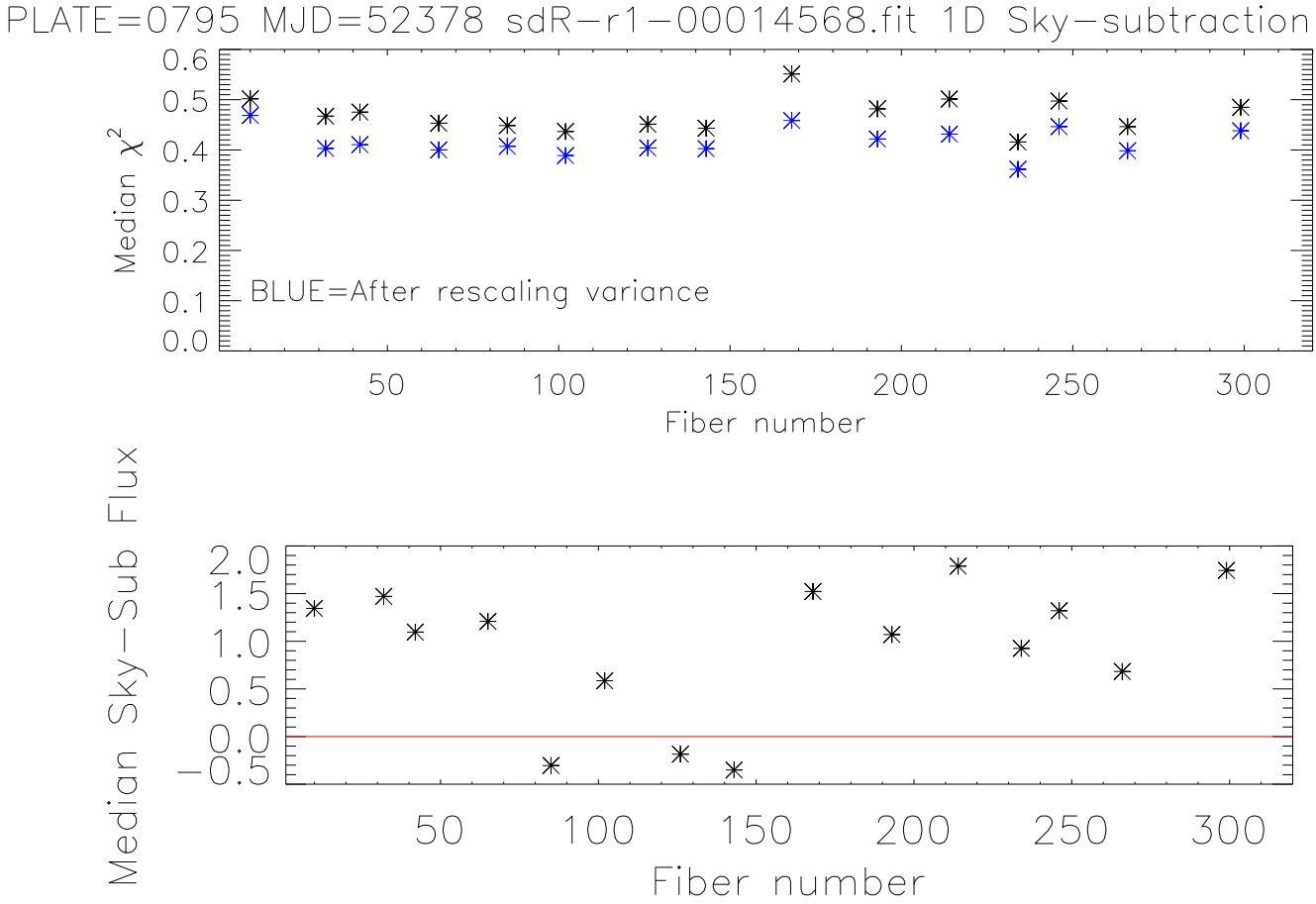

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

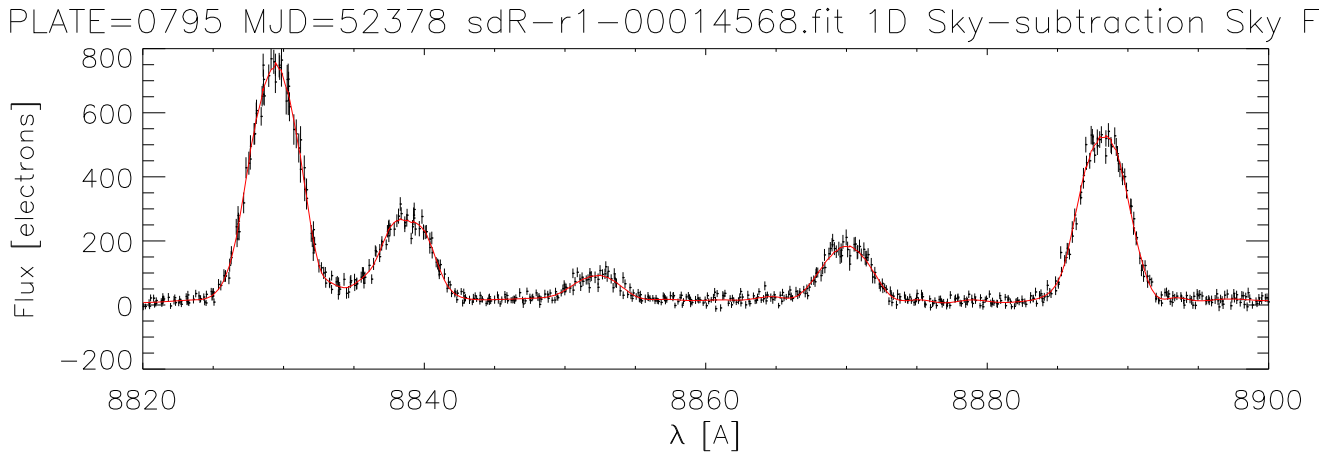

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

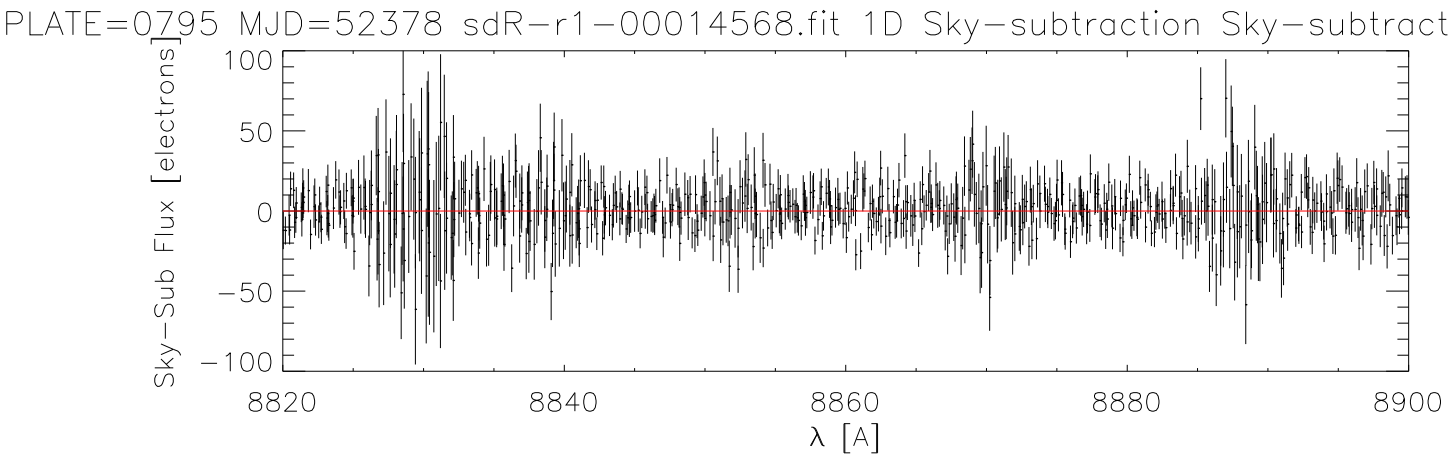

6300.3040
stdev 0.32
extra 0.29
6363.7760
stdev 0.46
extra 0.32
6553.6100
stdev 0.91
extra 0.16
6923.2100
stdev 0.94
extra 0.23
6949.0300
stdev 0.30
extra 0.17
7571.7500
stdev 0.27
extra 0.13
7794.1200
stdev 0.61
extra 0.28
7821.5100
stdev 0.79
extra 0.23
8399.1600
stdev 0.50
extra 0.19
8430.1700
stdev 0.42
extra 0.24
8885.8300
stdev 0.51
extra 0.21
8919.6100
stdev 0.45
extra 0.20
meas − pred, pix
mfhd2 16

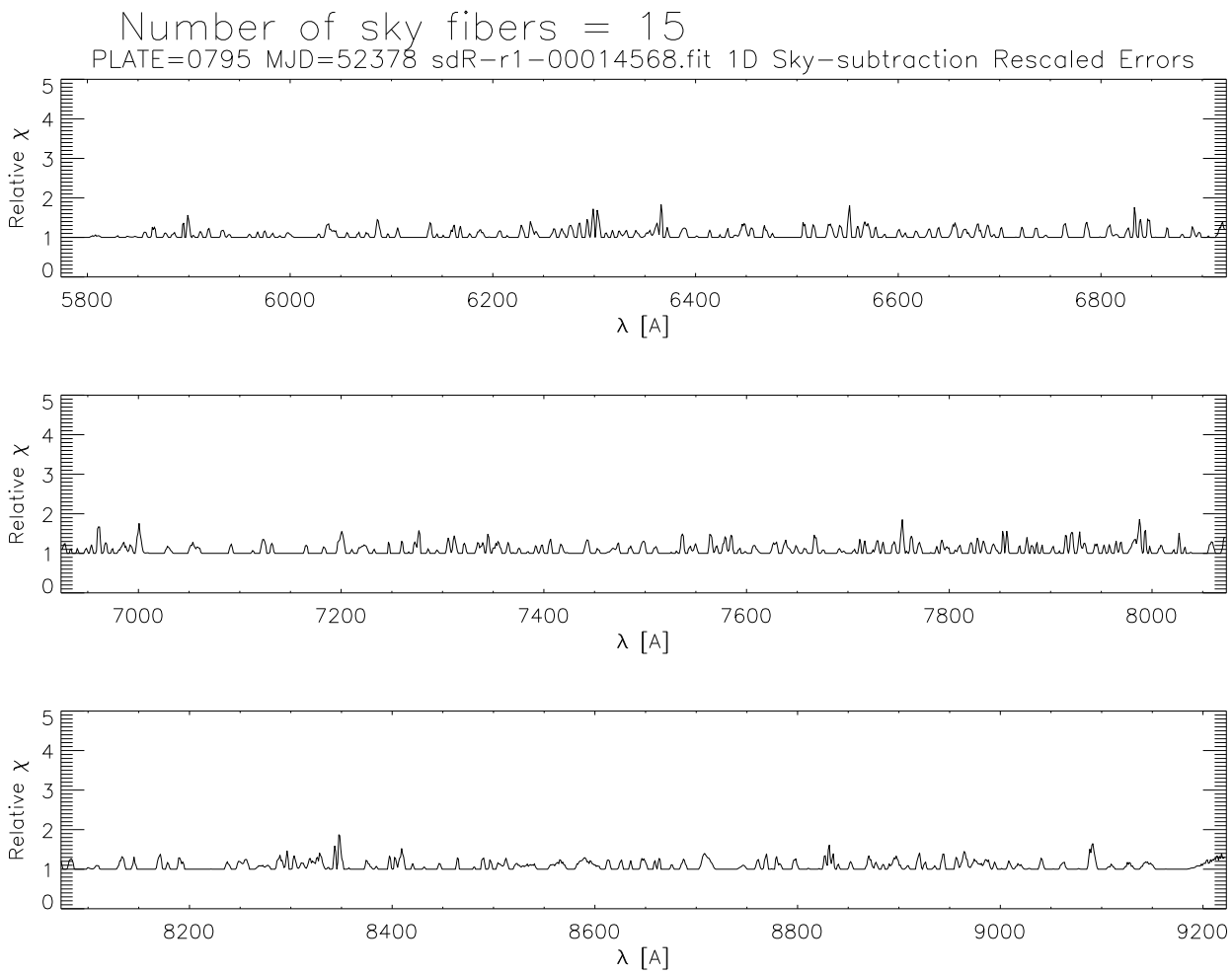

−0.10
−0.15
−0.20
−0.25
−0.30
sky shift, pixels
5000
6000
7000
8000
9000
10000

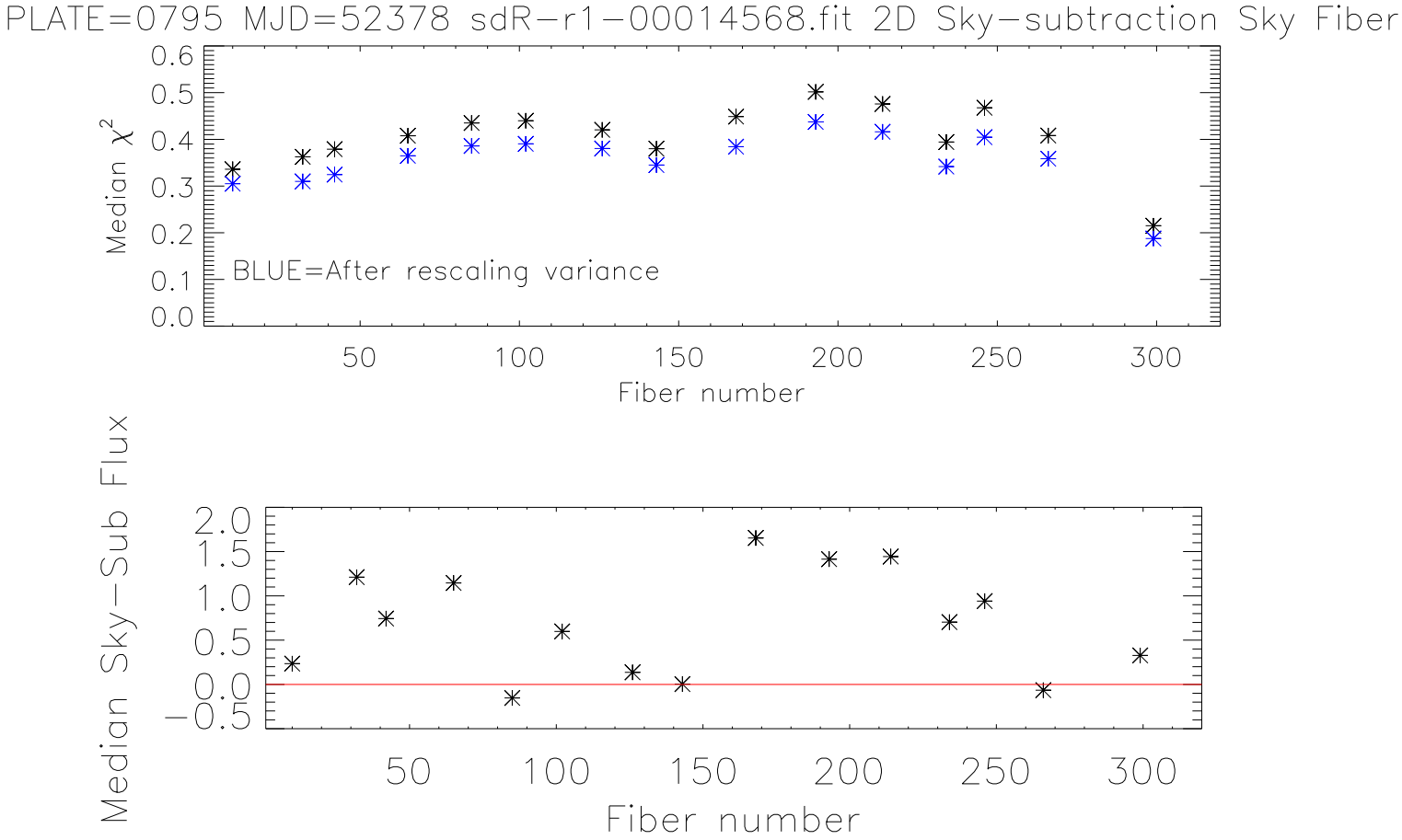

PLATE=0795 MJD=52378 Smooth superflat for sdR-r1-00014568.fit
es= -0.0000
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

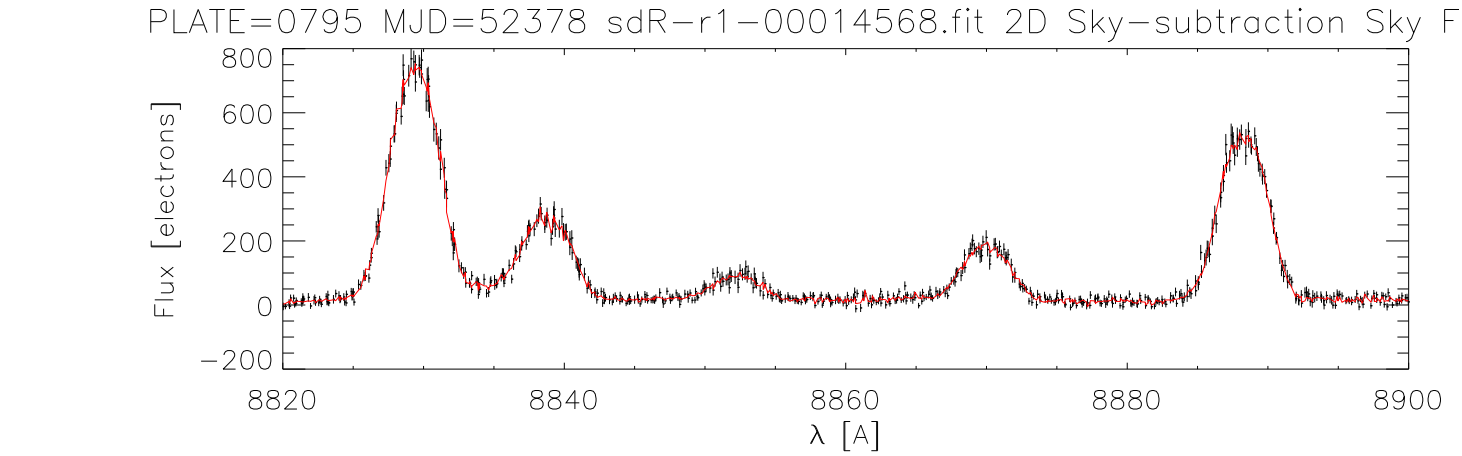

PLATE=0795 MJD=52378 sdR-r1-00014568.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

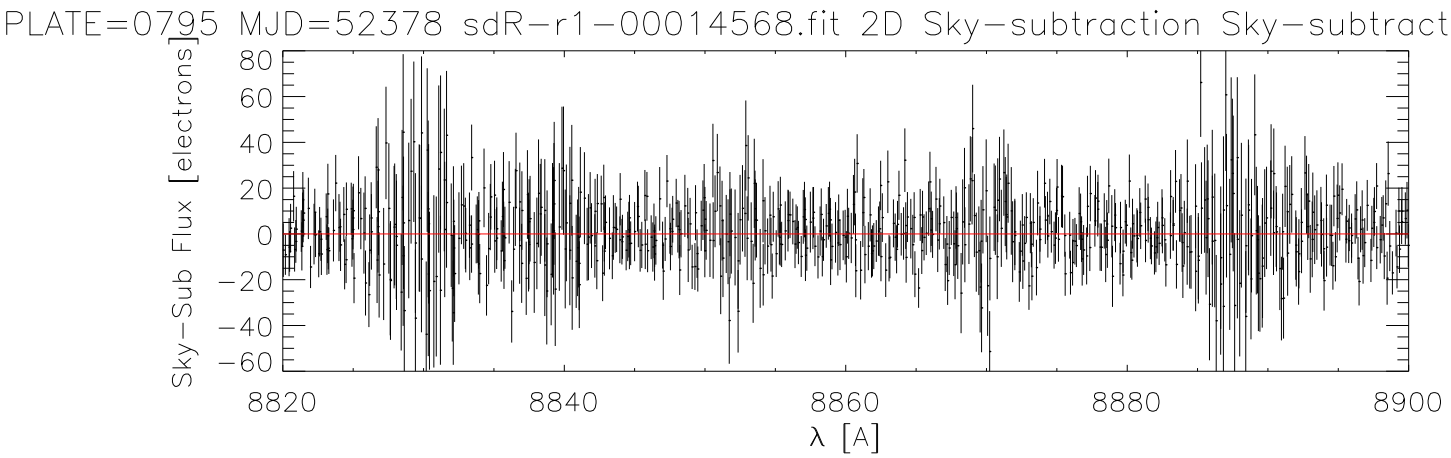

PLATE=0795 MJD=52378 sdR-r1-00014568.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

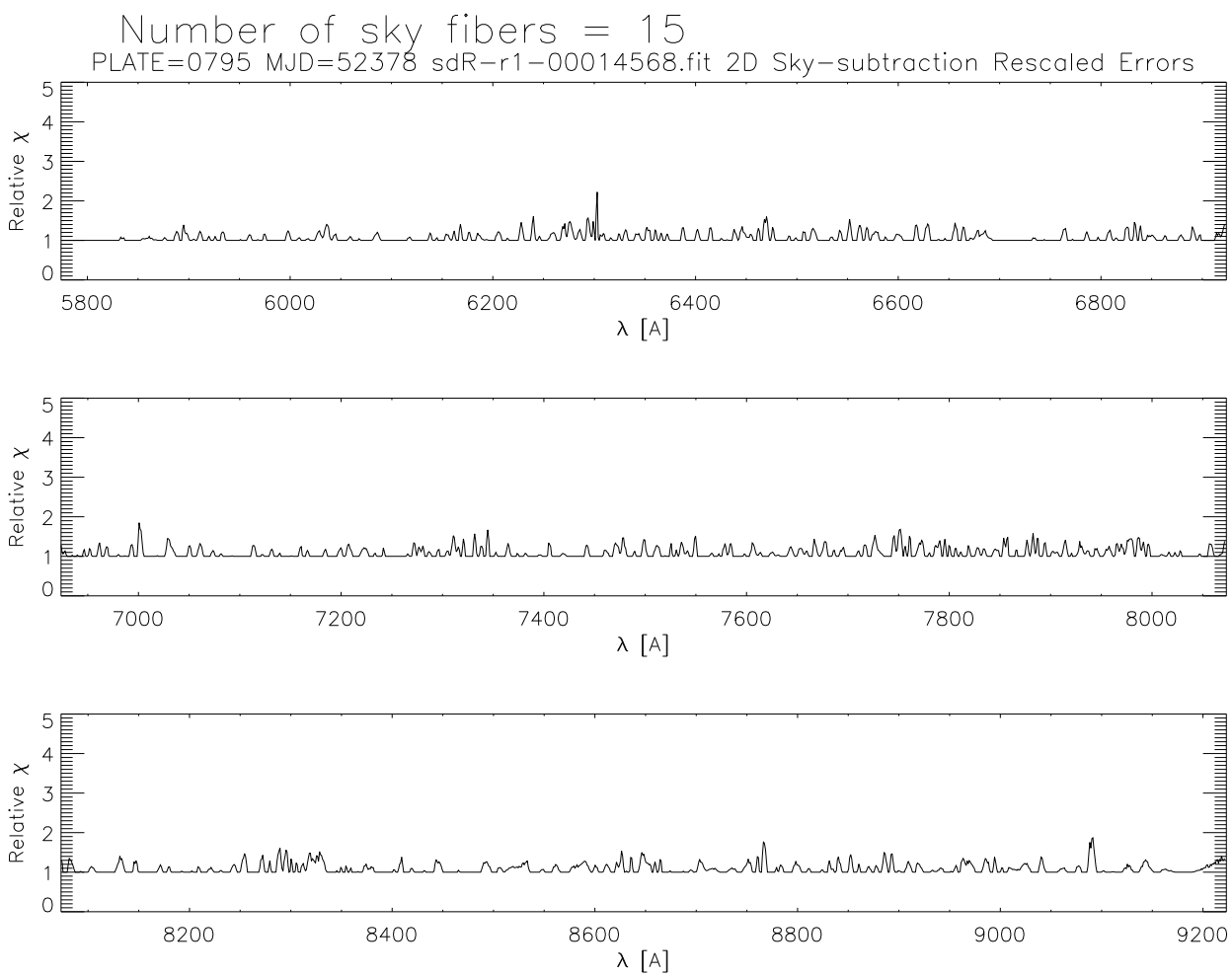

PLATE=0795 MJD=52378 sdR-r1-00014568.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

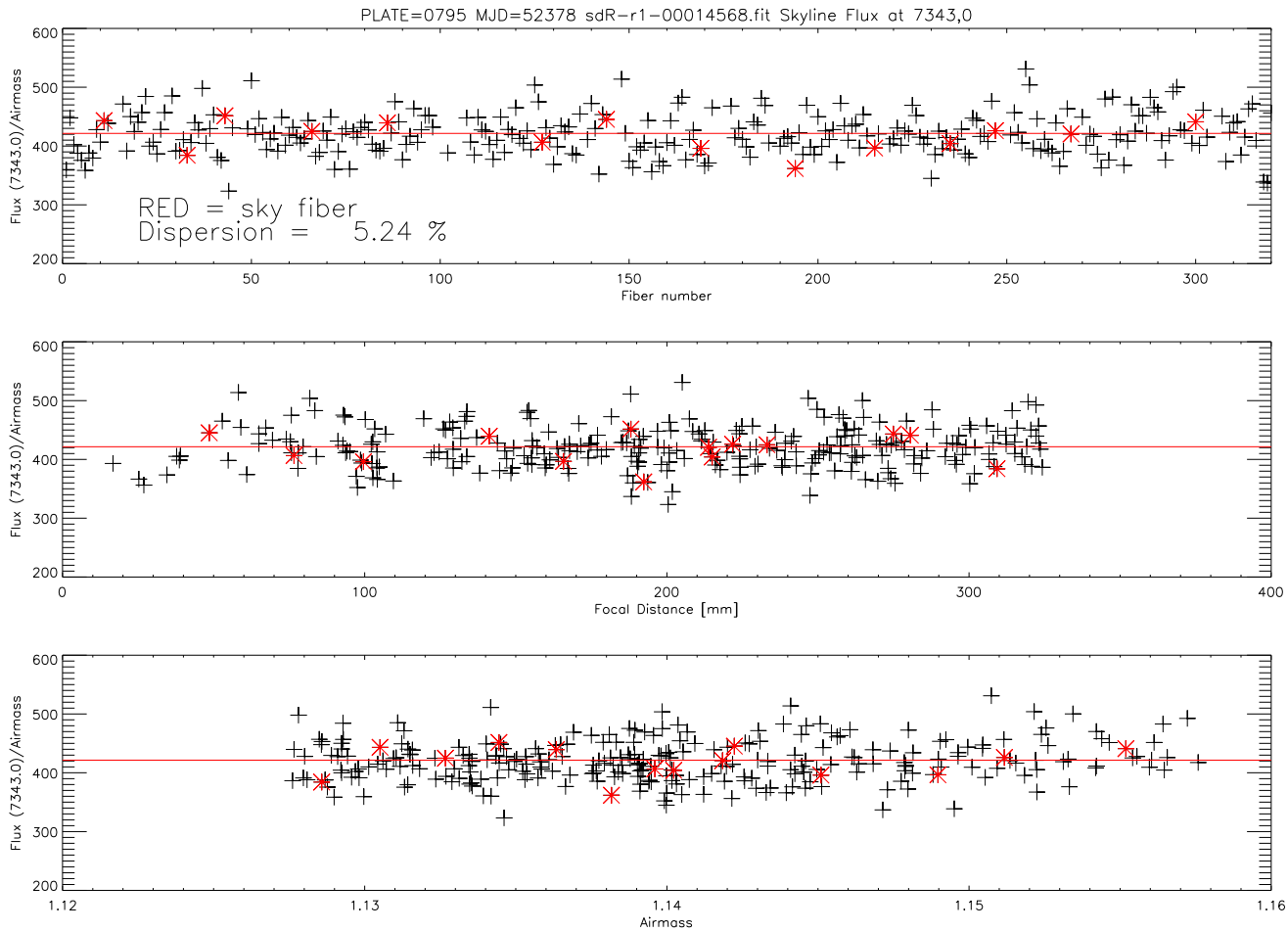

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014568.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

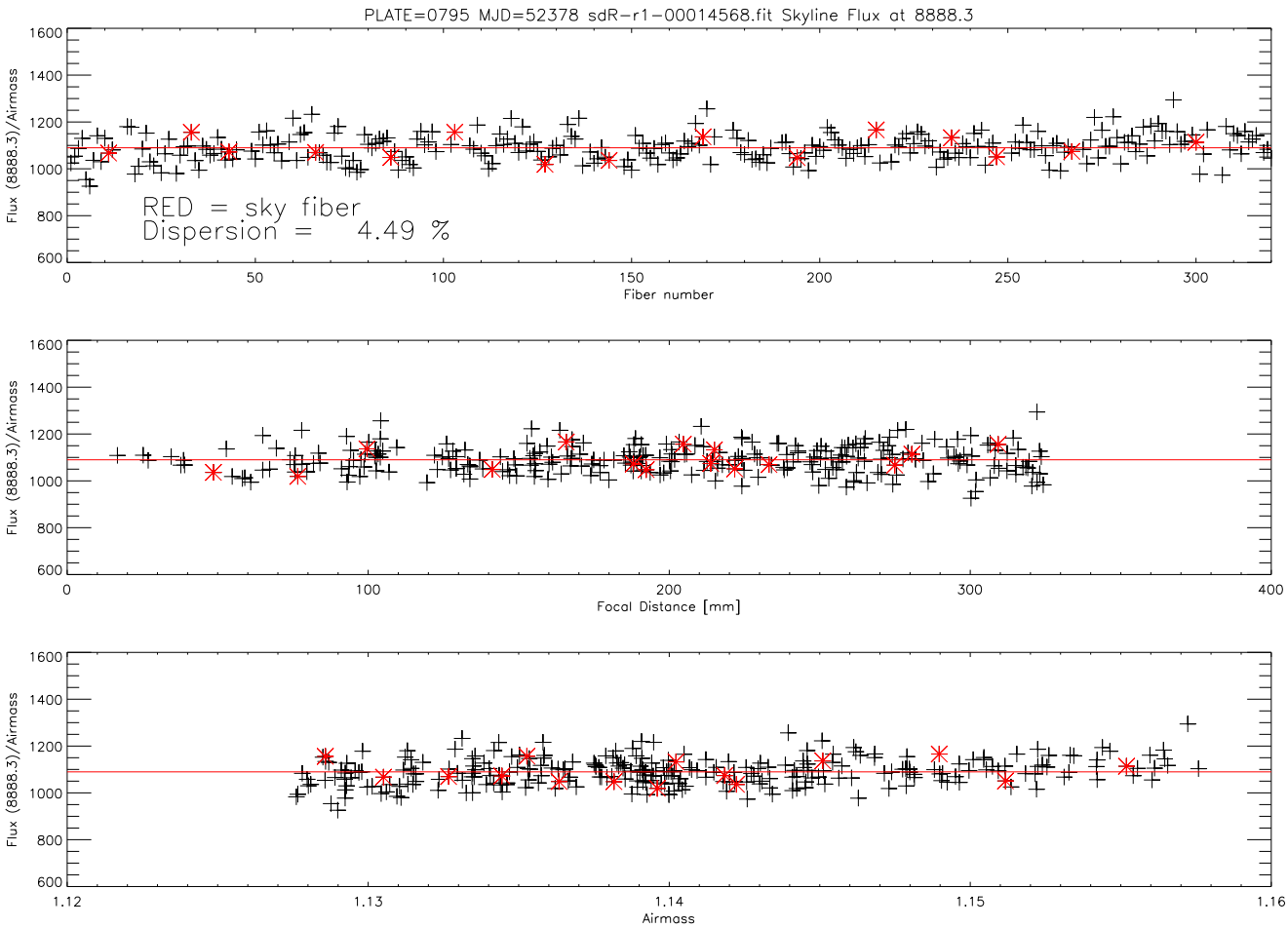

PLATE=0795 MJD=52378 sdR-r1-00014568.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

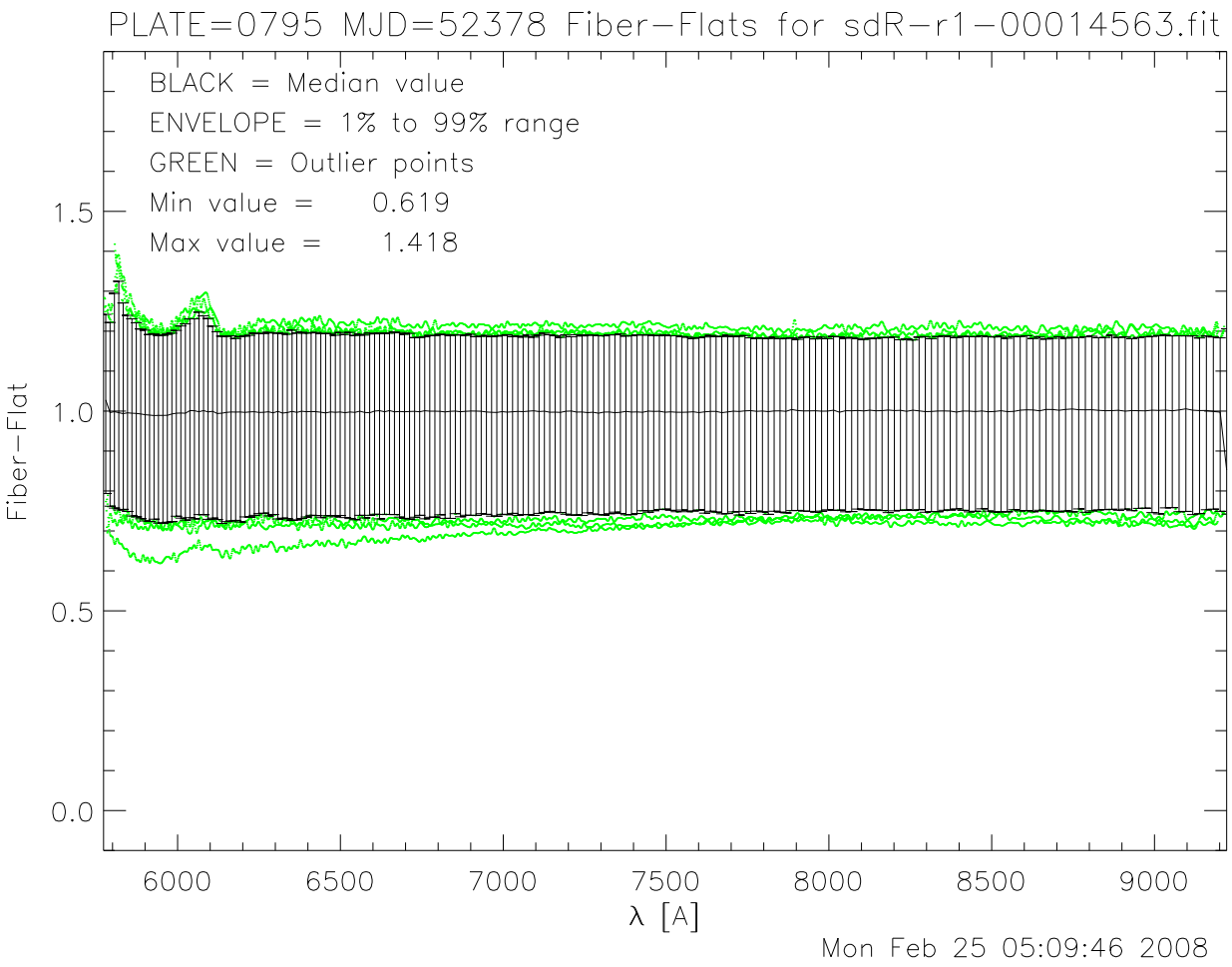

PLATE=0795 MJD=52378 sdR-r1-00014568.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

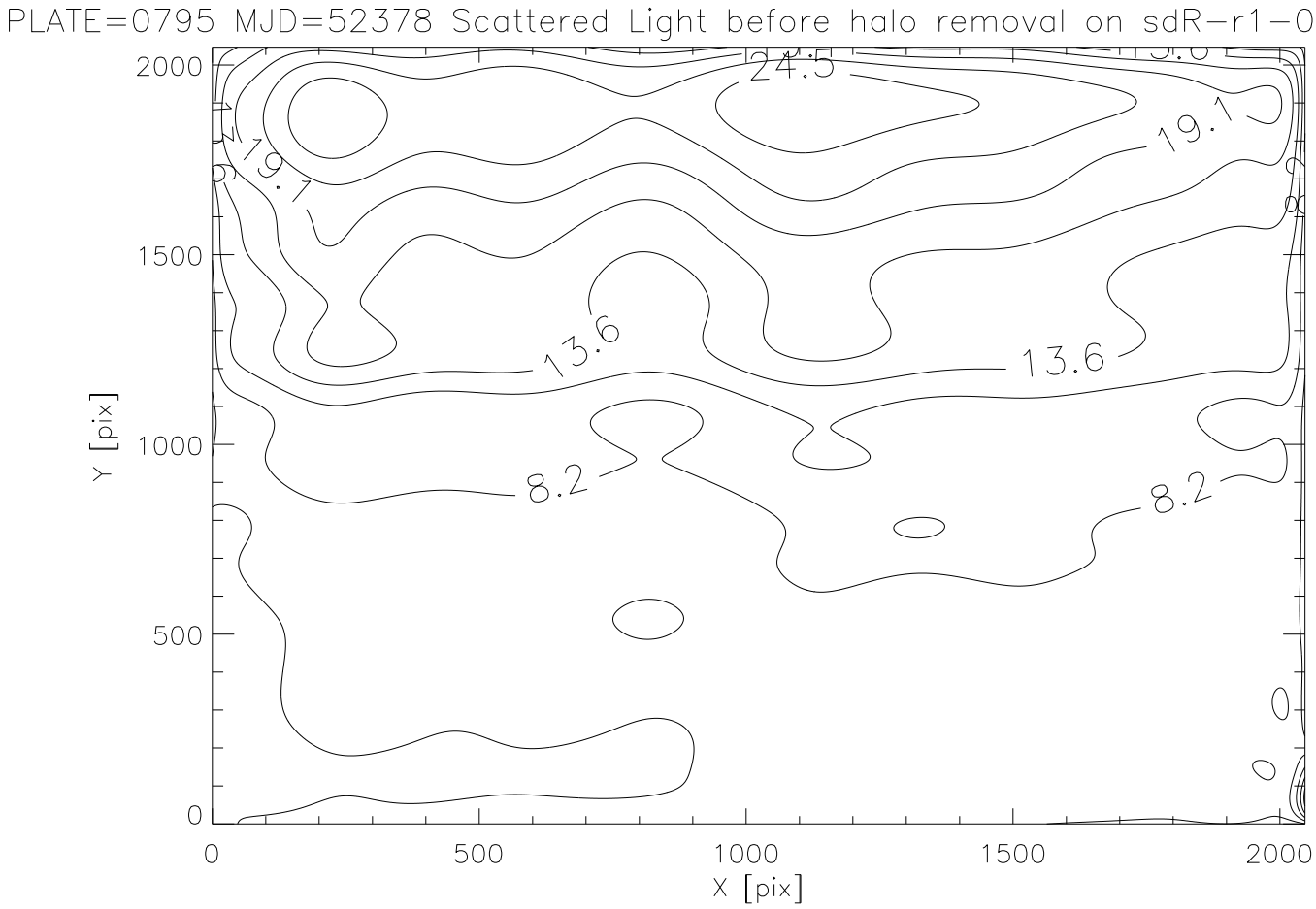

PLATE=0795 MJD=52378 sdR-r1-00014568.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
-20
-40
-60
8820
8840
8860
8880
8900
λ [A]

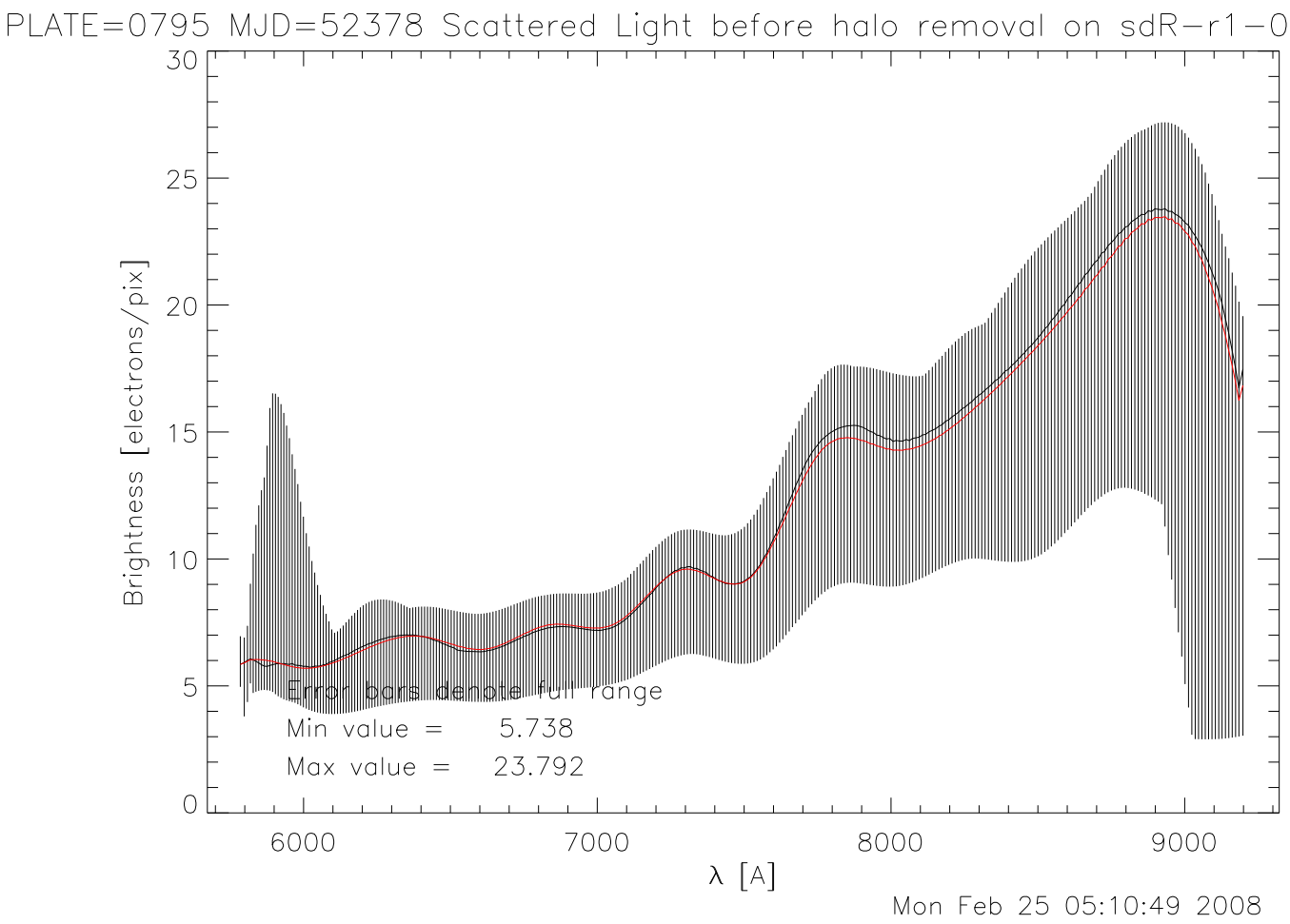

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014568.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

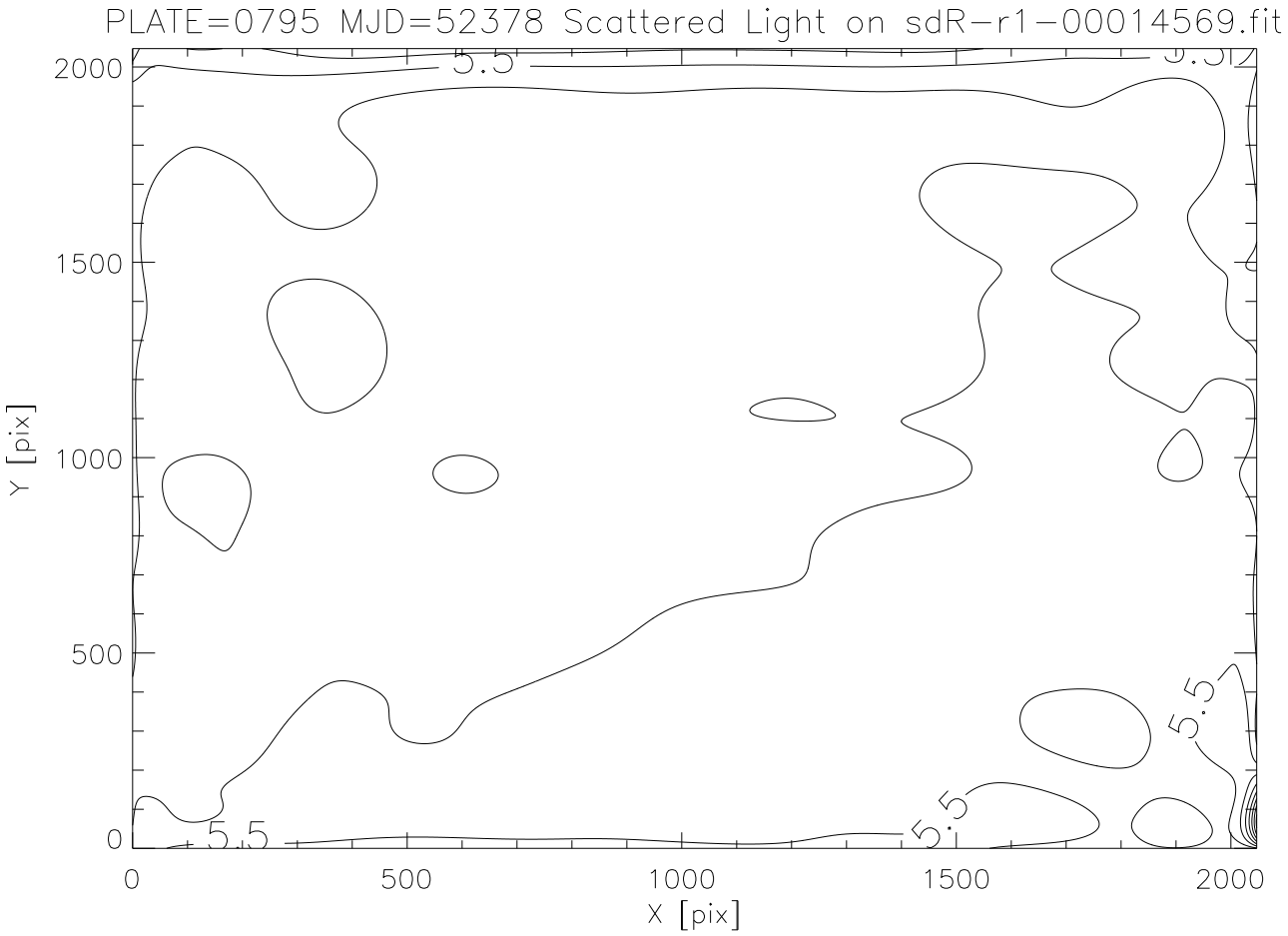

PLATE=0795 MJD=52378 sdR-r1-00014568.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.24 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

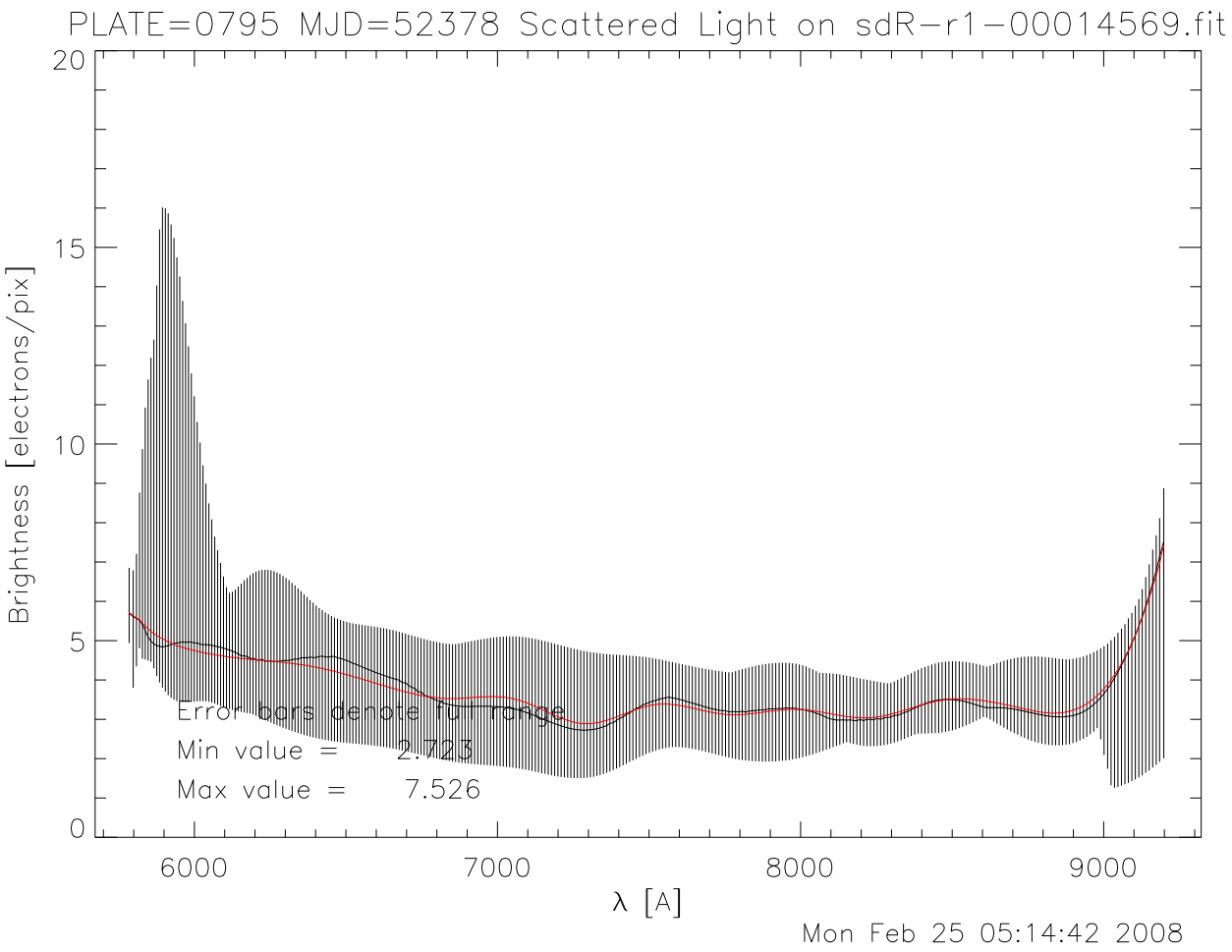

PLATE=0795 MJD=52378 sdR-r1-00014568.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.49 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

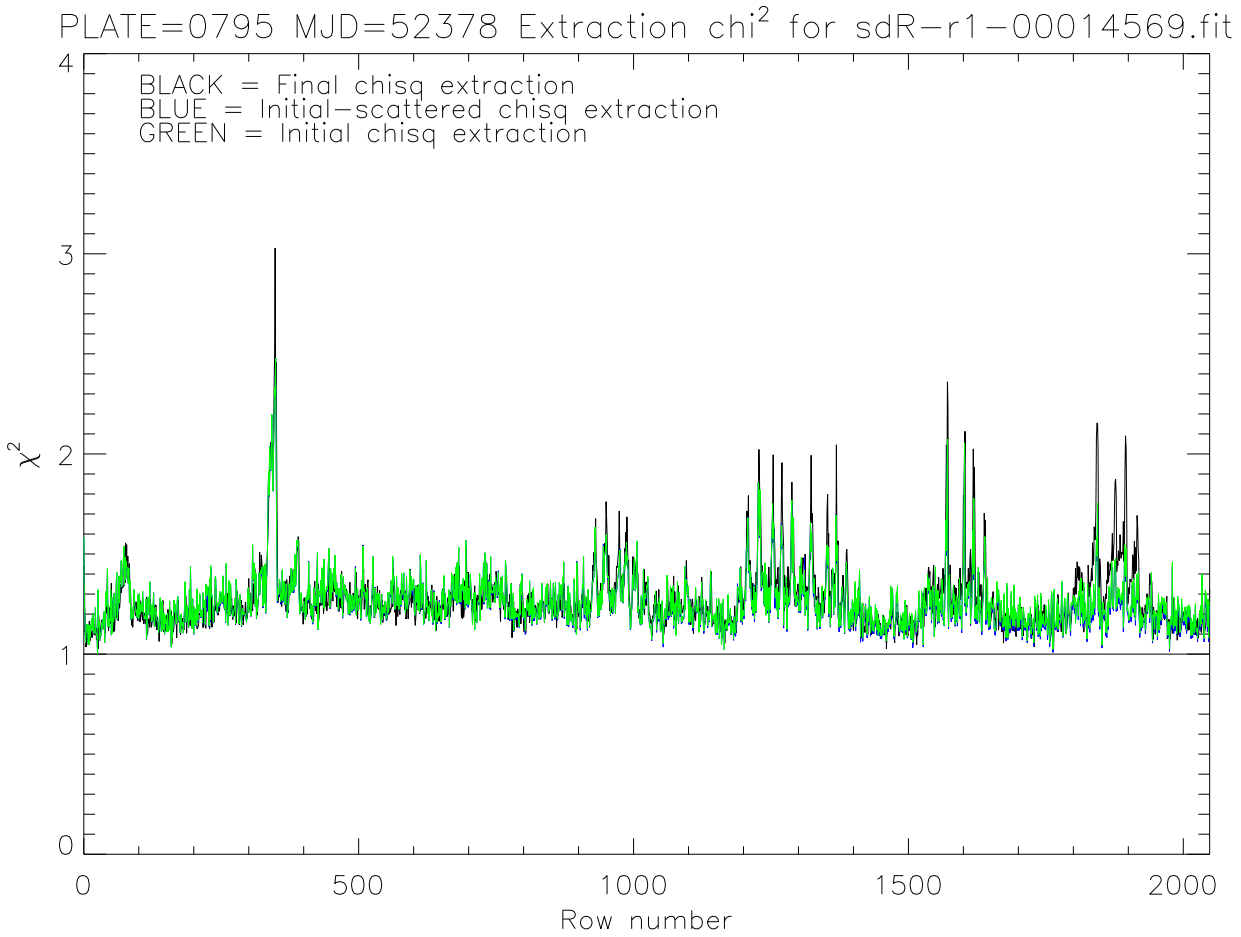

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.619
Max value = 1.418
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 05:09:46 2008

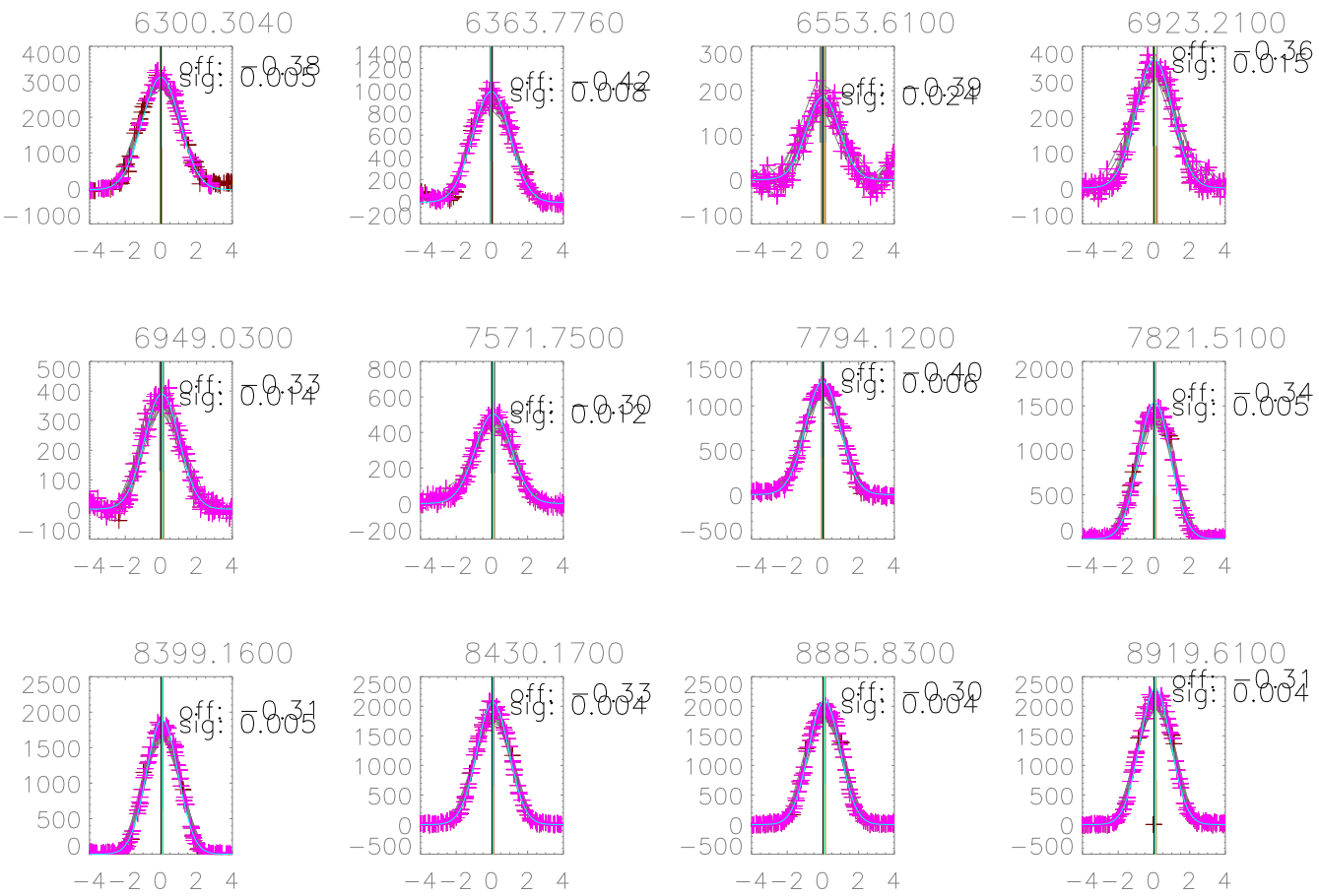

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014569.fi
24.5
19.1
19.1
13.6
13.6
8.2
8.2
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

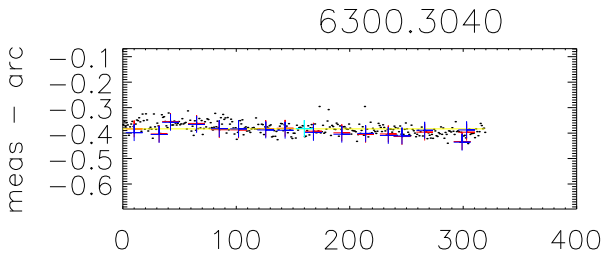

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014569.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.738
Max value = 23.792
Mon Feb 25 05:10:49 2008

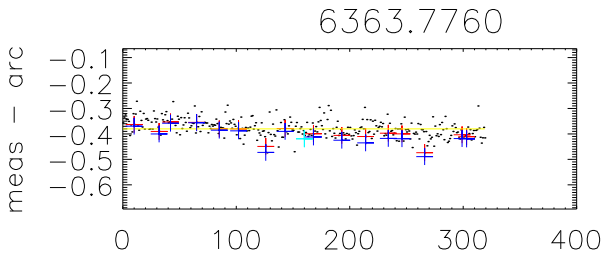

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014569.fit
5.5
5.5
5.5
5.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

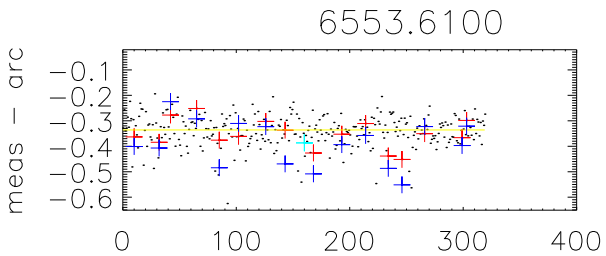

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014569.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 2.723
Max value = 7.526
Mon Feb 25 05:14:42 2008

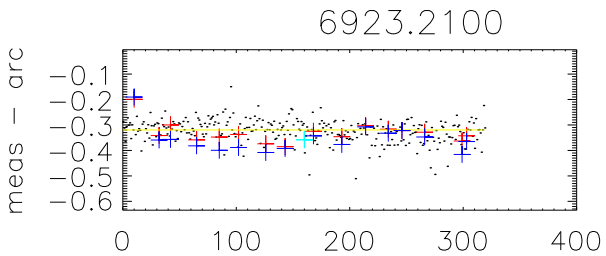

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r1−00014569.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

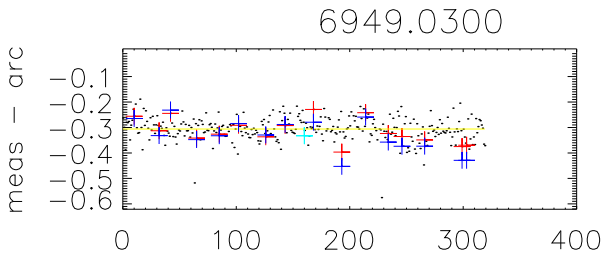

6300.3040
off: −0.38
sig: 0.005
6363.7760
off: −0.42
sig: 0.008
6553.6100
off: −0.39
sig: 0.024
6923.2100
off: −0.36
sig: 0.015
6949.0300
off: −0.33
sig: 0.014
7571.7500
off: −0.30
sig: 0.012
7794.1200
off: −0.40
sig: 0.006
7821.5100
off: −0.34
sig: 0.005
8399.1600
off: −0.31
sig: 0.005
8430.1700
off: −0.33
sig: 0.004
8885.8300
off: −0.30
sig: 0.004
8919.6100
off: −0.31
sig: 0.004

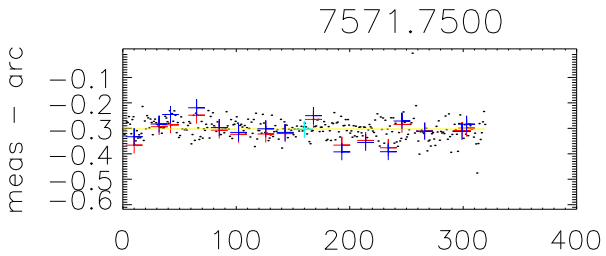

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

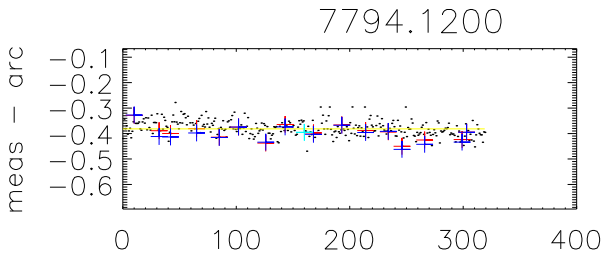

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

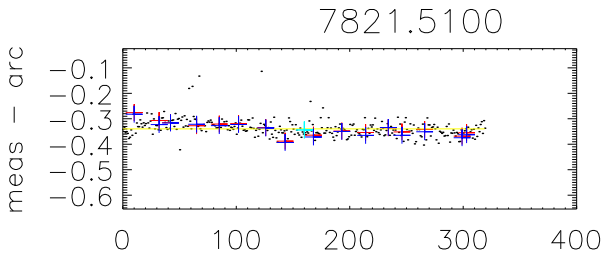

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

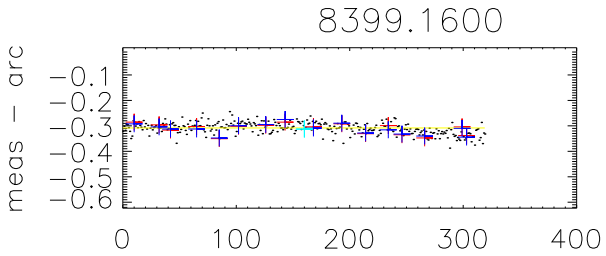

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

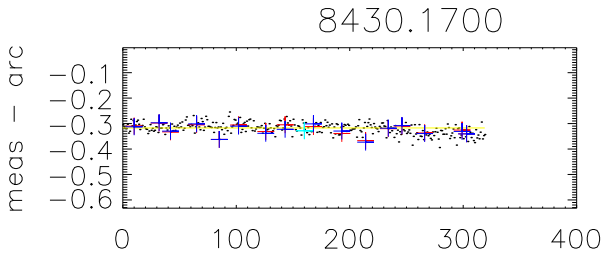

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

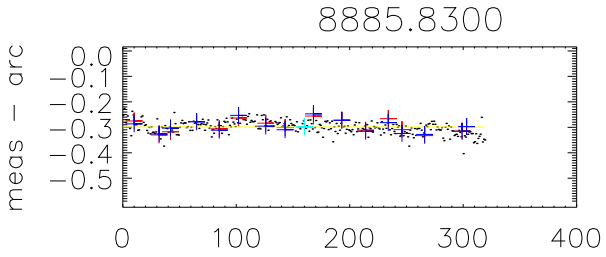

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

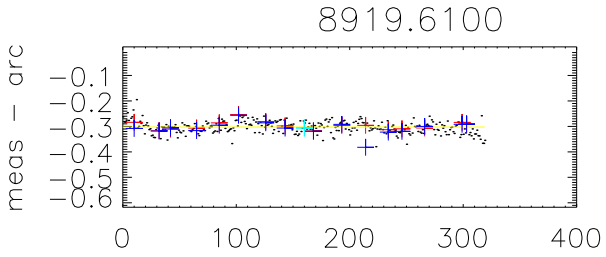

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

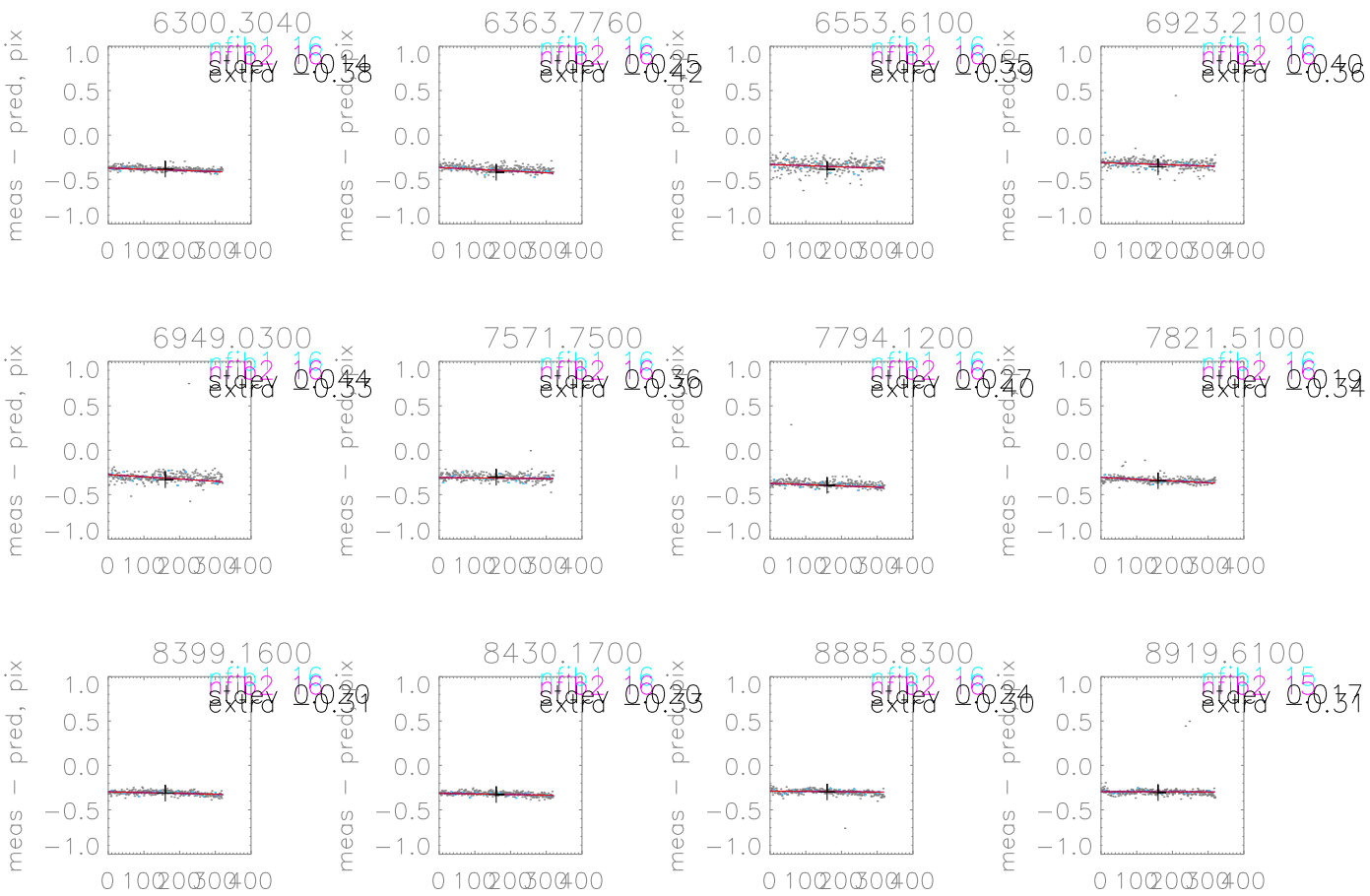

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

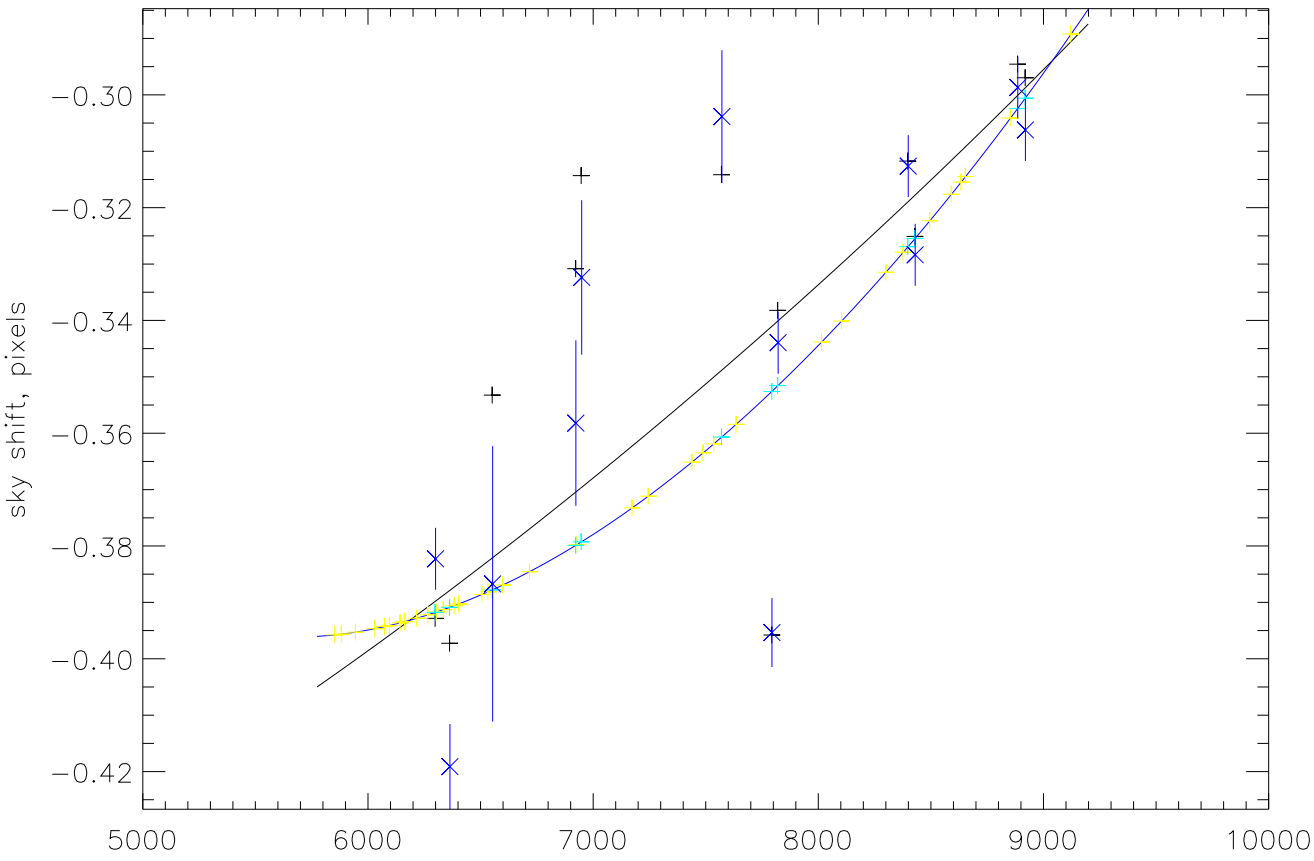

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

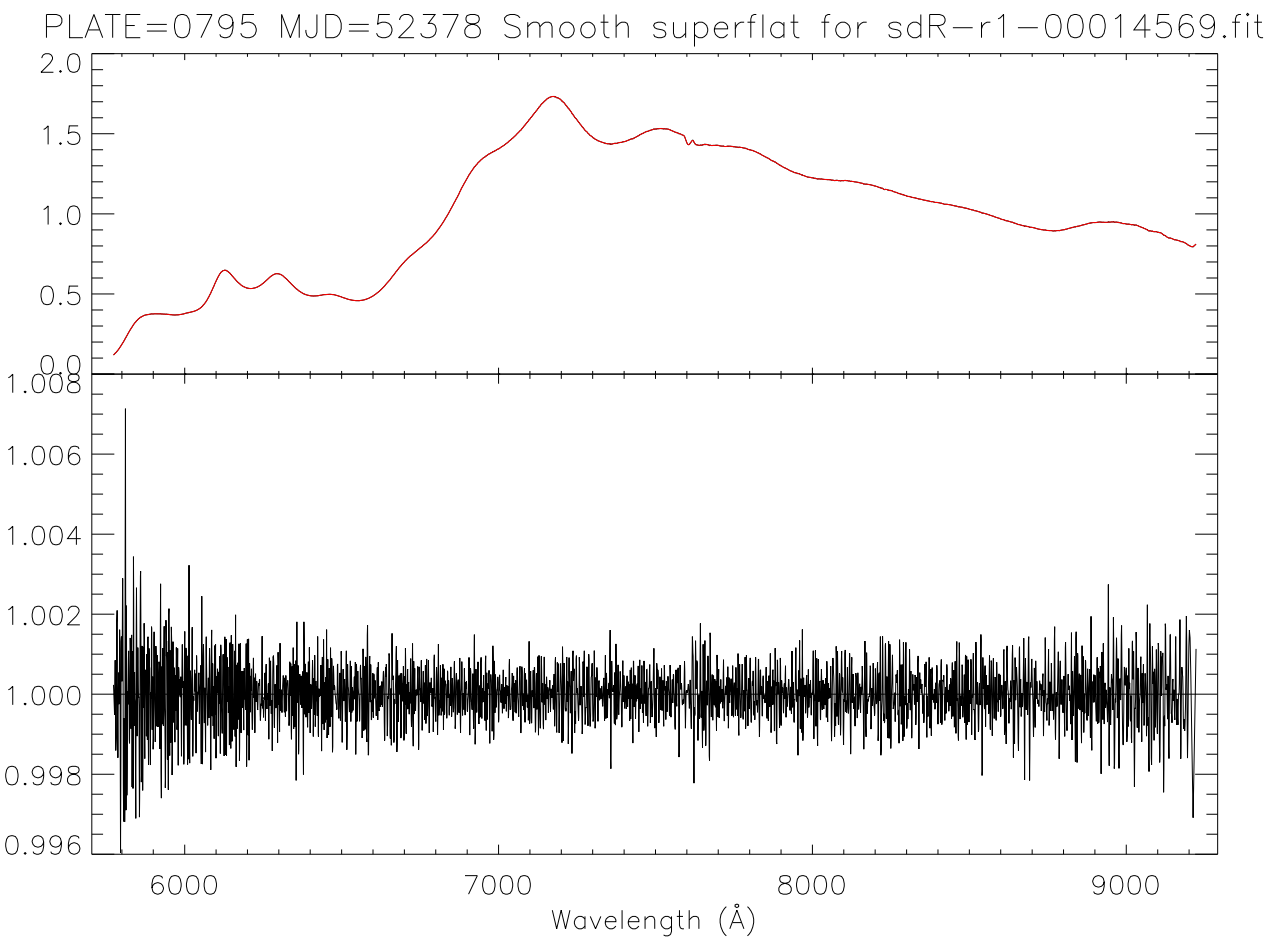

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

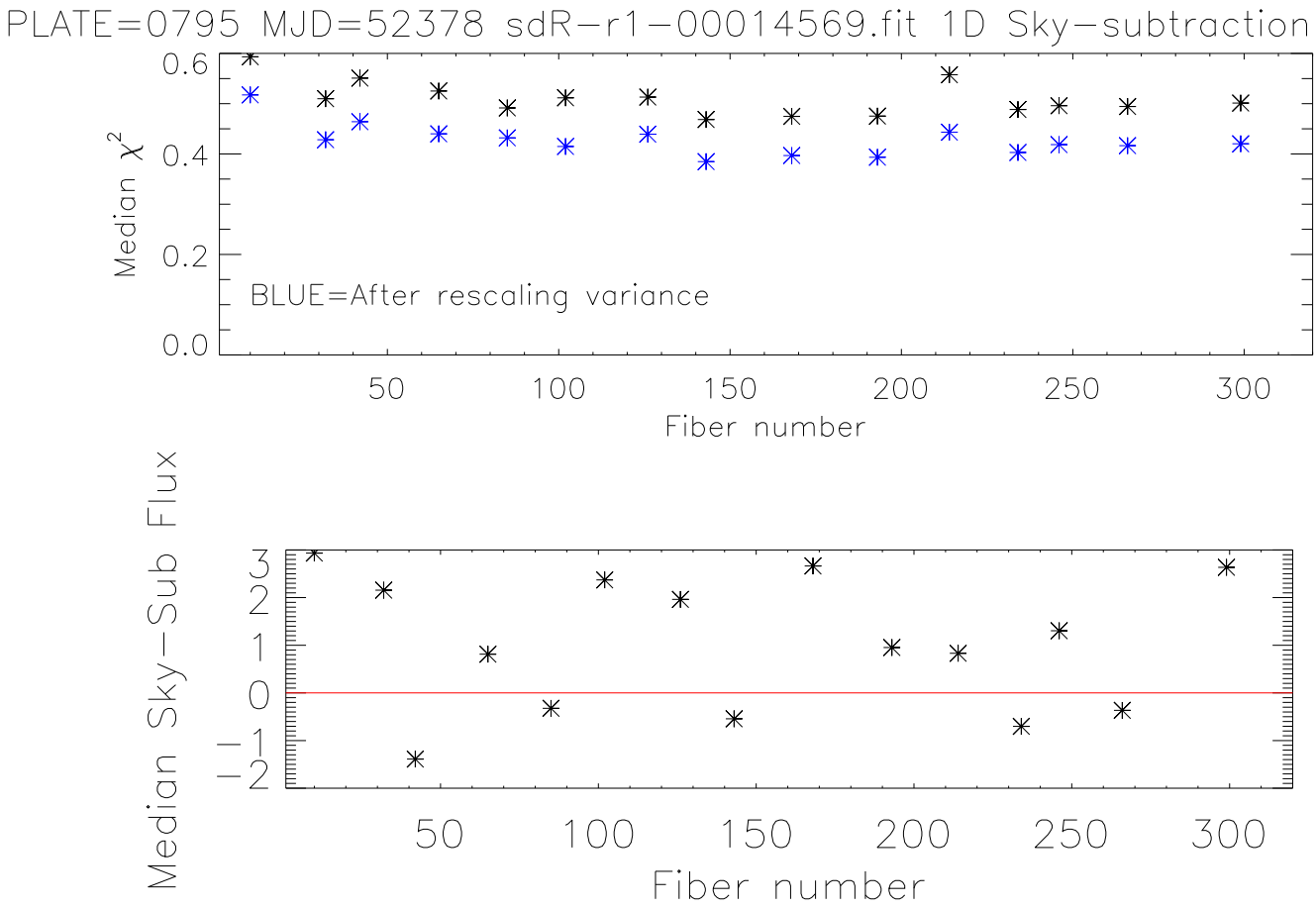

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


6300.3040
mfib1 16
mfib2 16
stdev 0.34
extra −0.38
6363.7760
mfib1 16
mfib2 16
stdev 0.25
extra −0.42
6553.6100
mfib1 16
mfib2 16
stdev 0.55
extra −0.39
6923.2100
mfib1 16
mfib2 16
stdev 0.40
extra −0.36
6949.0300
mfib1 16
mfib2 16
stdev 0.44
extra −0.33
7571.7500
mfib1 16
mfib2 16
stdev 0.36
extra −0.30
7794.1200
mfib1 16
mfib2 16
stdev 0.27
extra −0.40
7821.5100
mfib1 16
mfib2 16
stdev 0.19
extra −0.34
8399.1600
mfib1 16
mfib2 16
stdev 0.20
extra −0.31
8430.1700
mfib1 16
mfib2 16
stdev 0.20
extra −0.33
8885.8300
mfib1 16
mfib2 16
stdev 0.24
extra −0.30
8919.6100
mfib1 15
mfib2 16
stdev 0.17
extra −0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

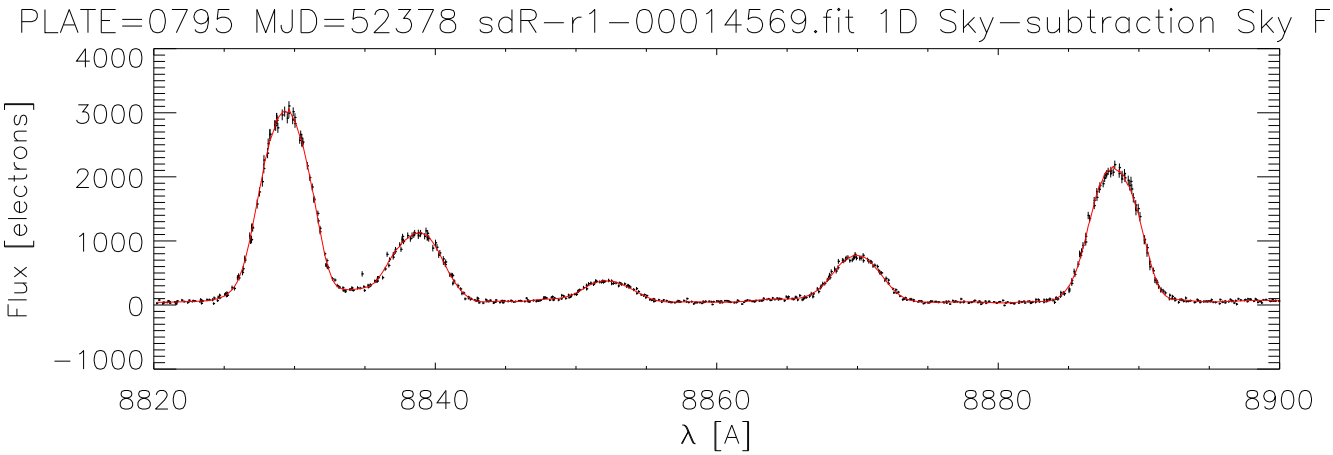

sky shift, pixels
−0.30
−0.32
−0.34
−0.36
−0.38
−0.40
−0.42
5000
6000
7000
8000
9000
10000

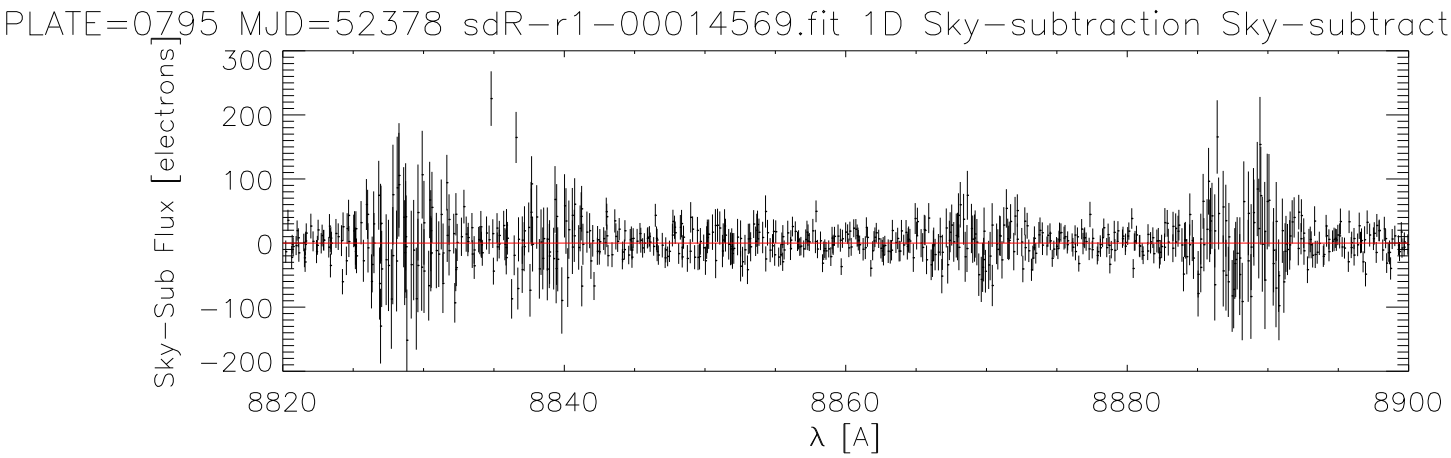
es= −0.0000

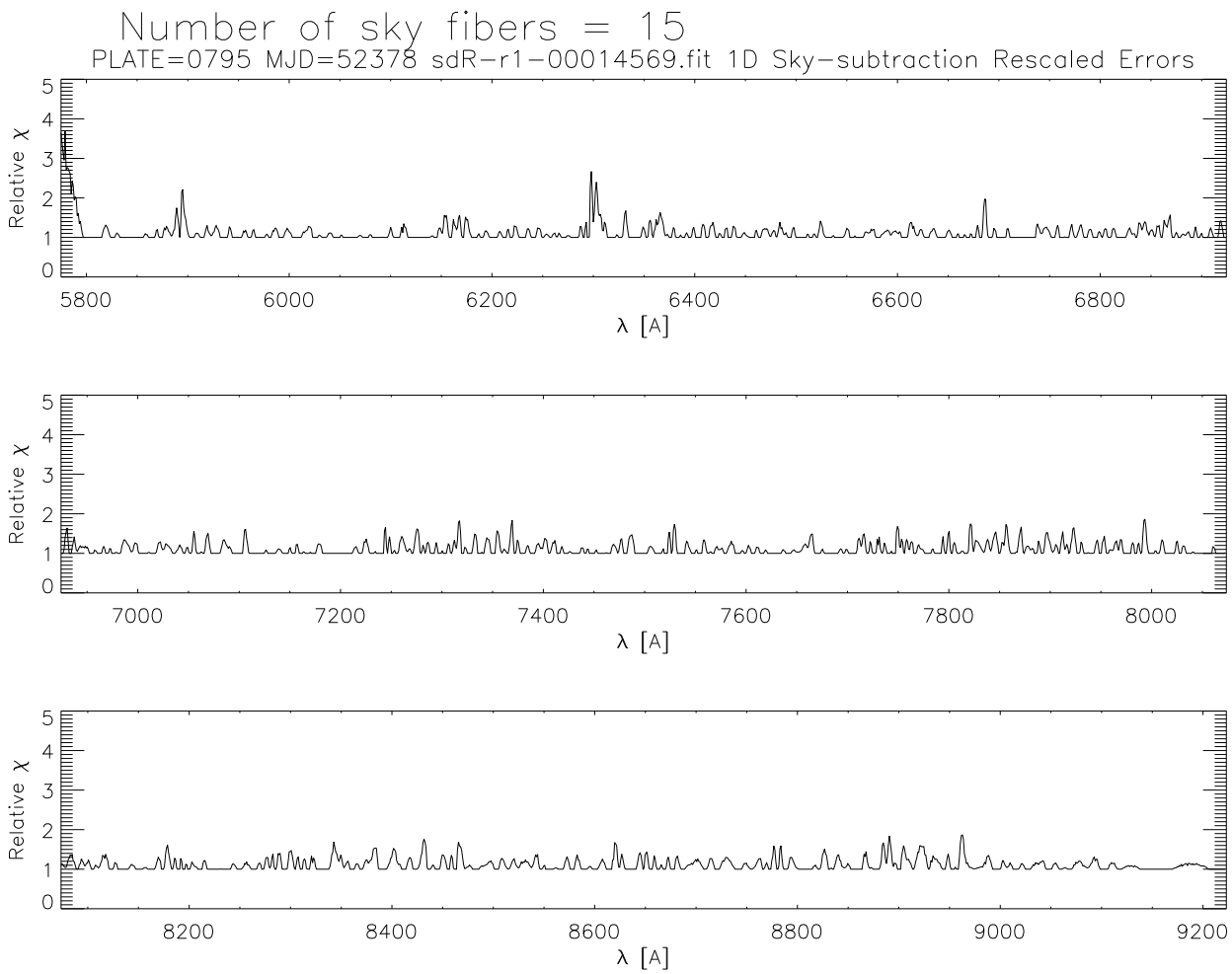

PLATE=0795 MJD=52378 Smooth superflat for sdR−r1−00014569.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

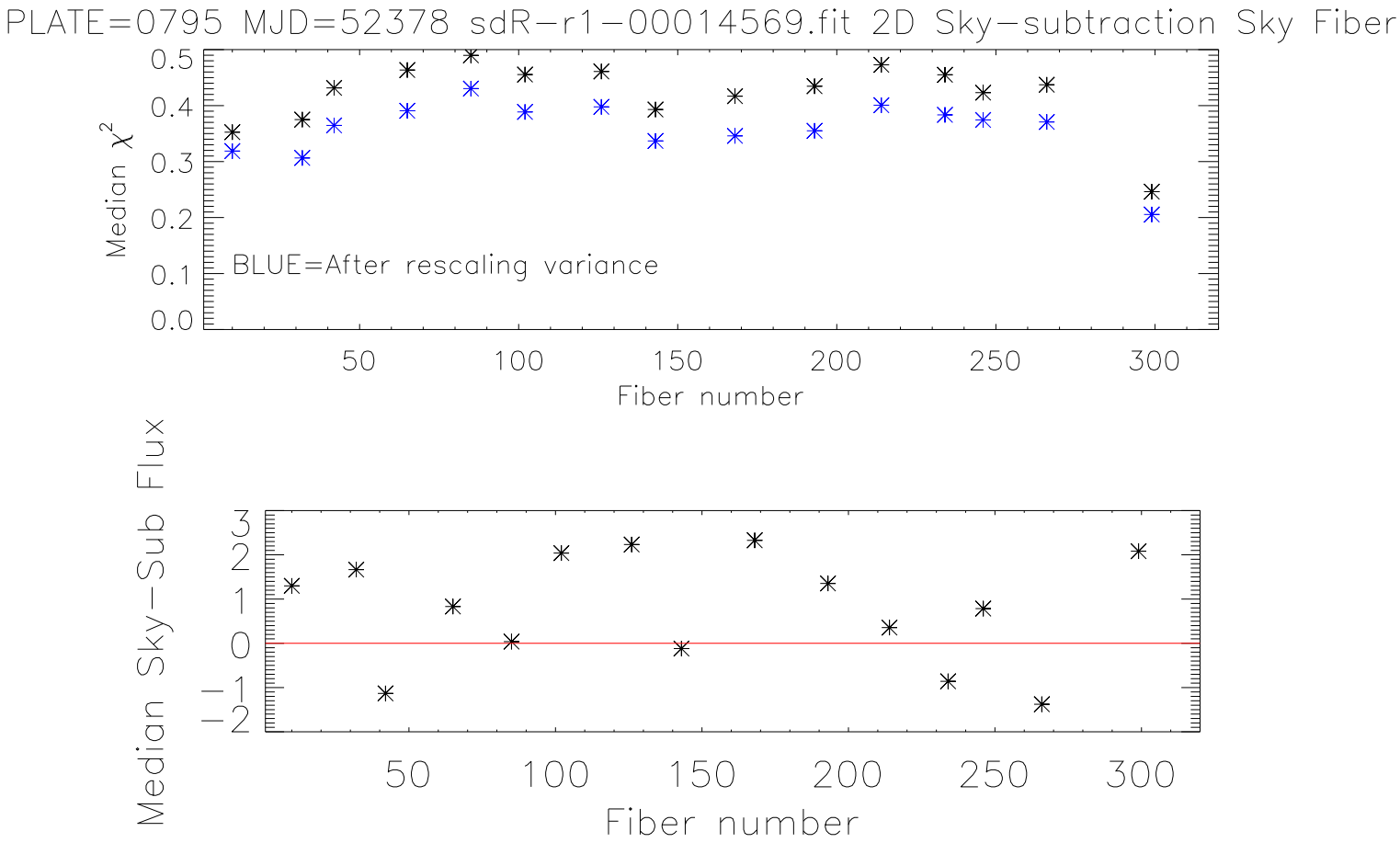

PLATE=0795 MJD=52378 sdR-r1-00014569.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

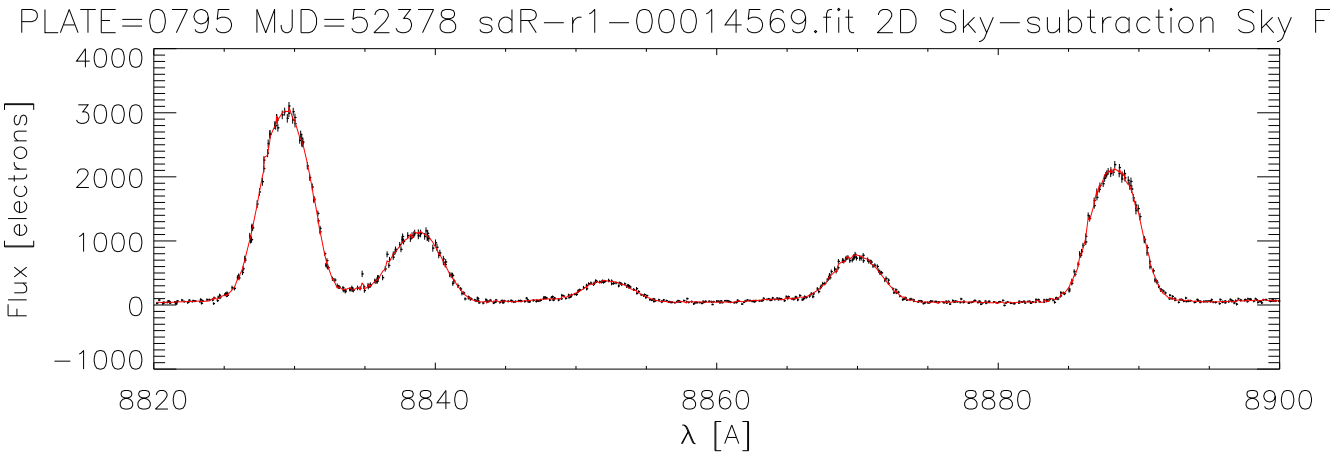
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

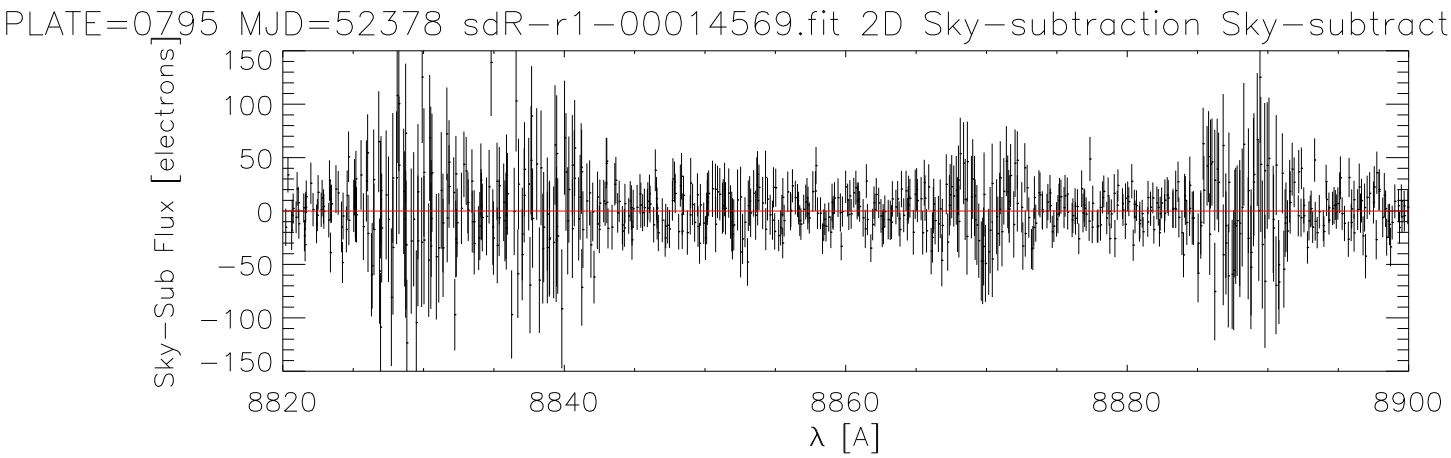

PLATE=0795 MJD=52378 sdR-r1-00014569.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

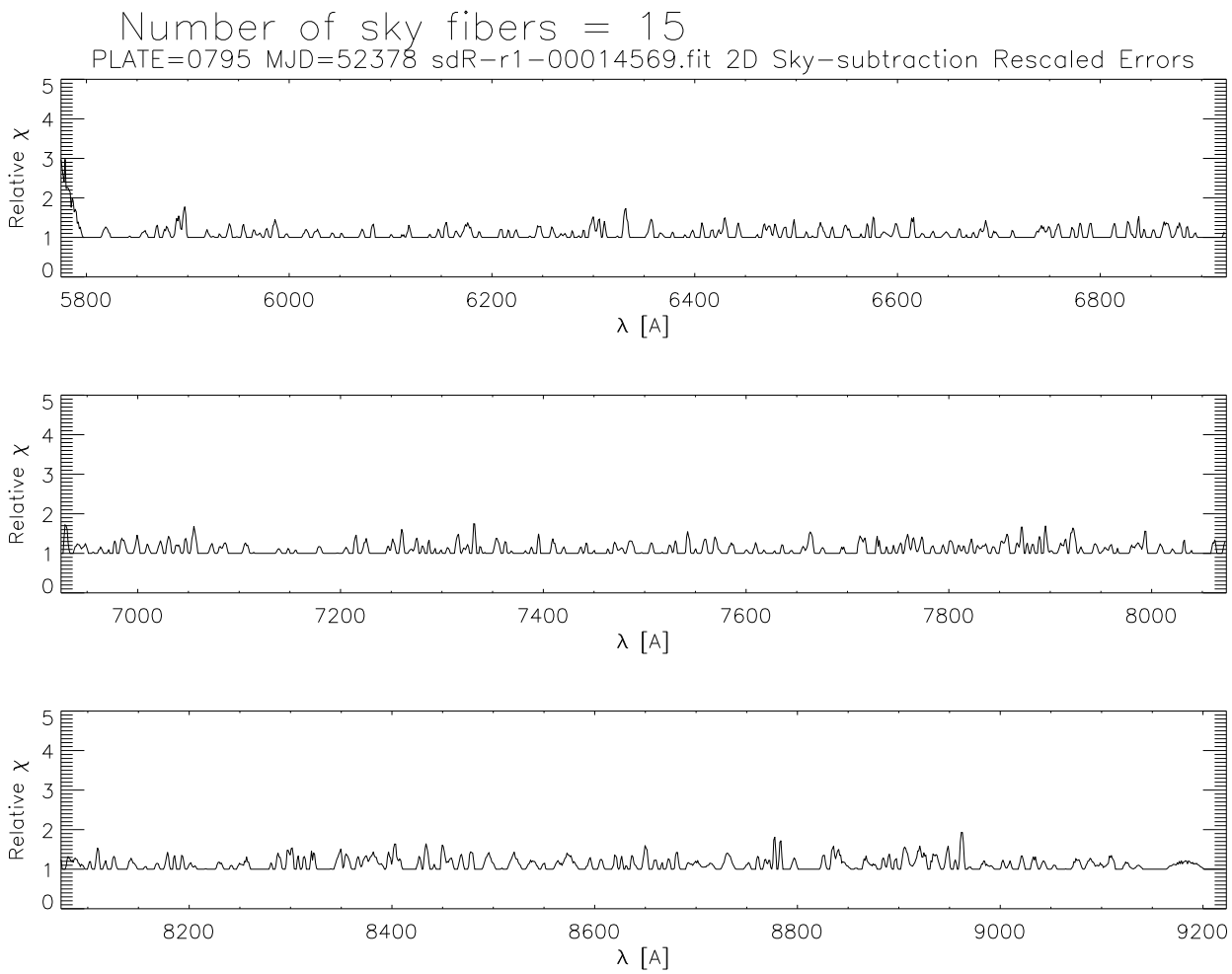

PLATE=0795 MJD=52378 sdR-r1-00014569.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

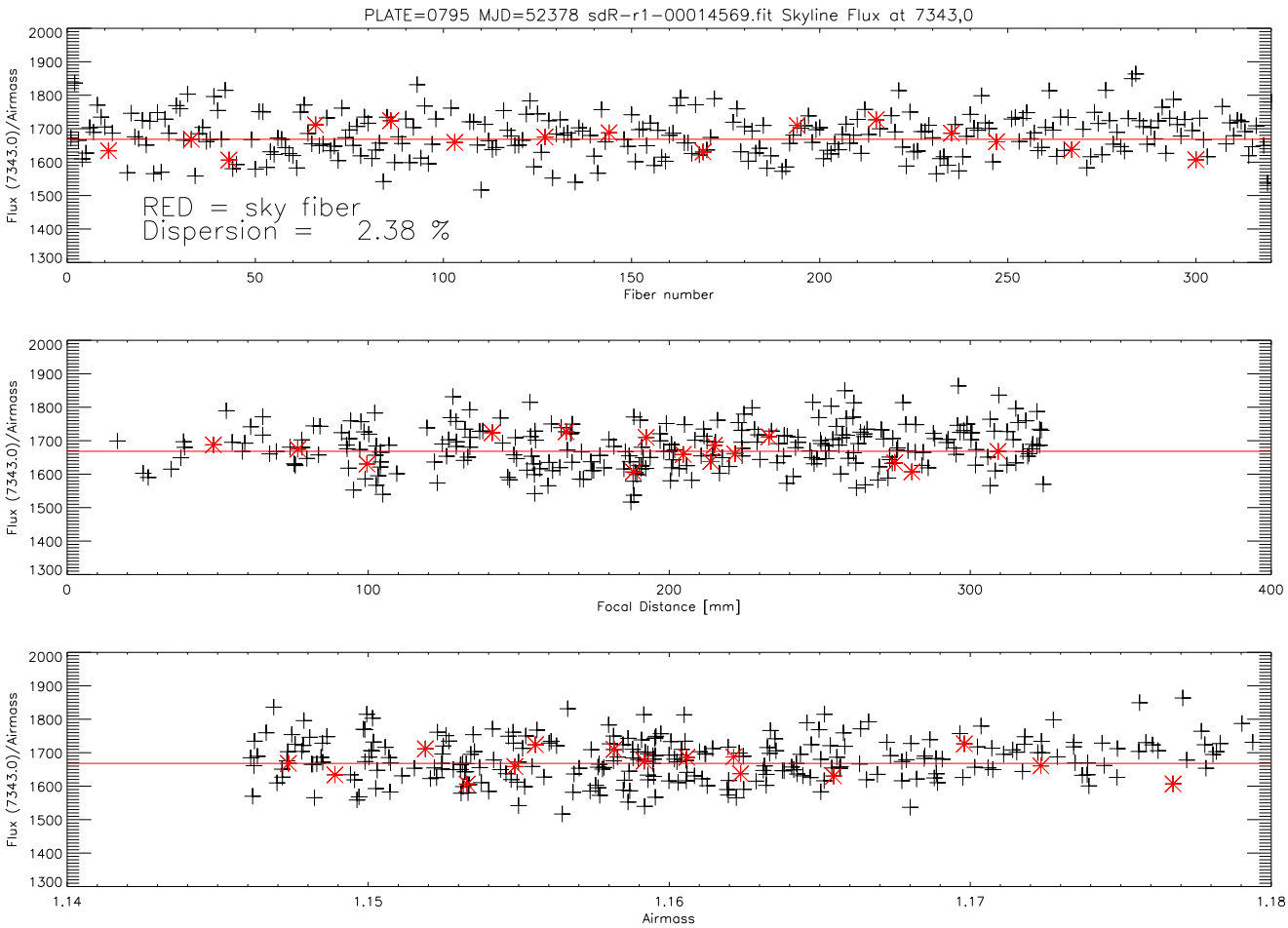

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014569.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

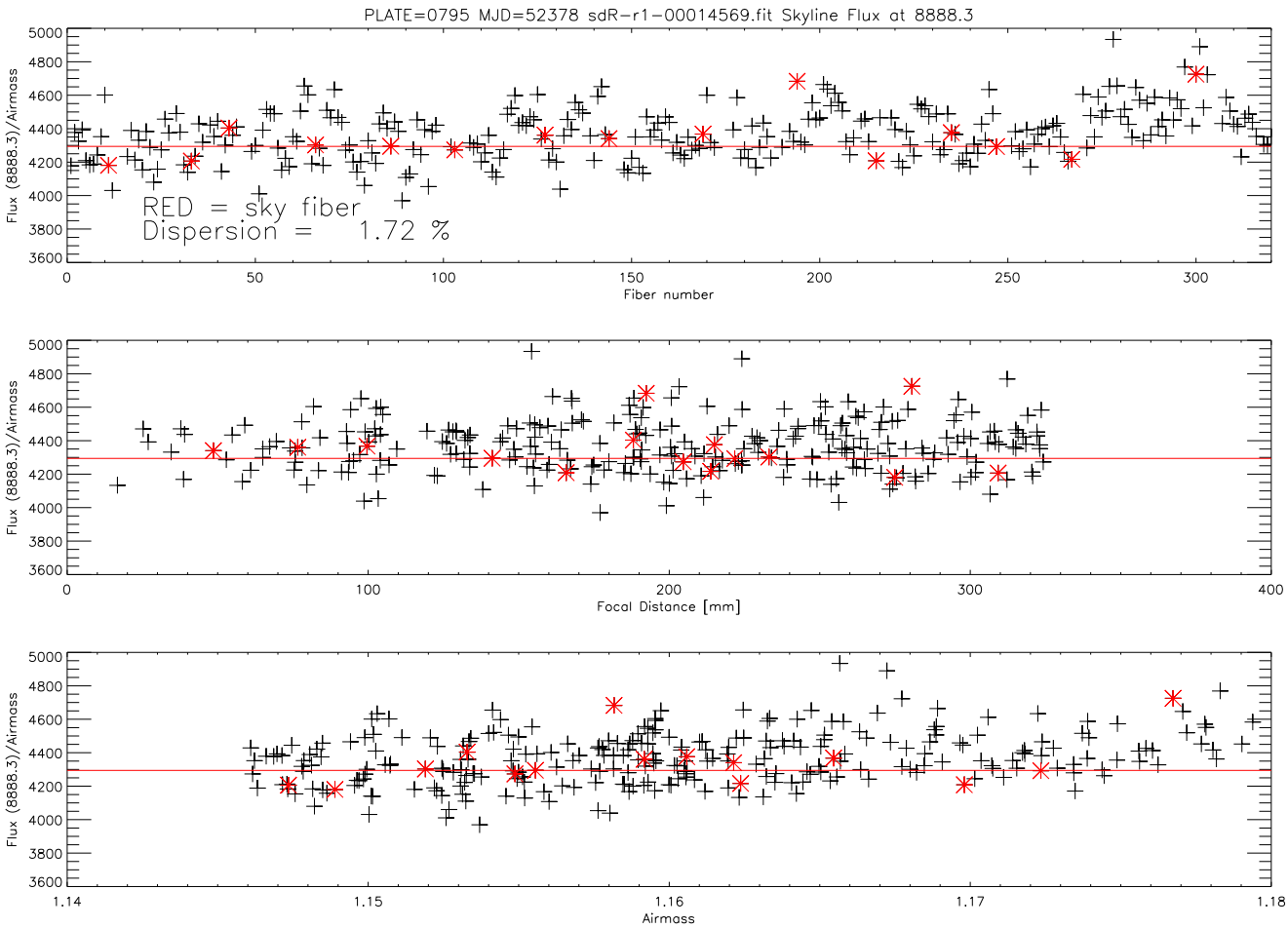

PLATE=0795 MJD=52378 sdR-r1-00014569.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

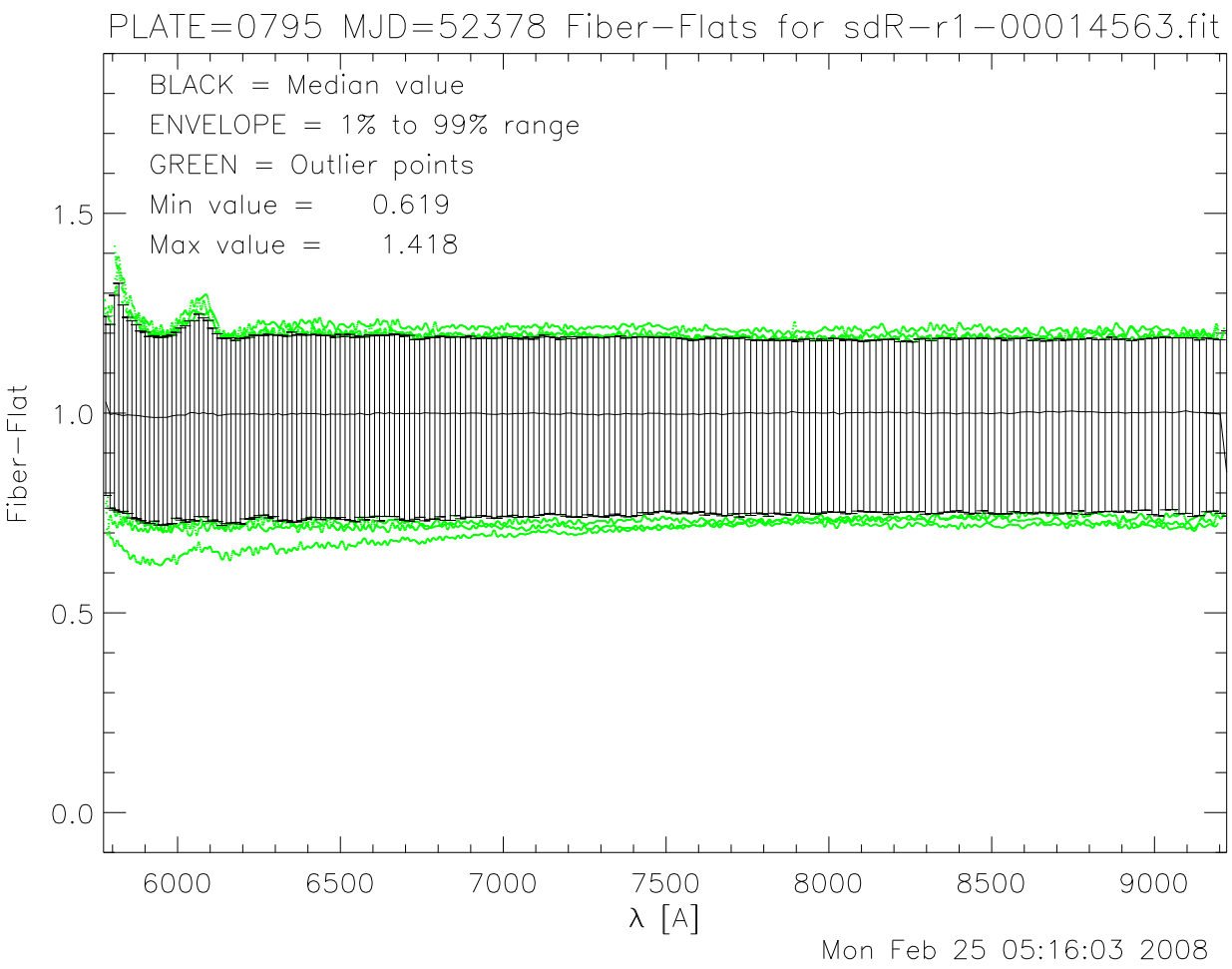

PLATE=0795 MJD=52378 sdR-r1-00014569.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

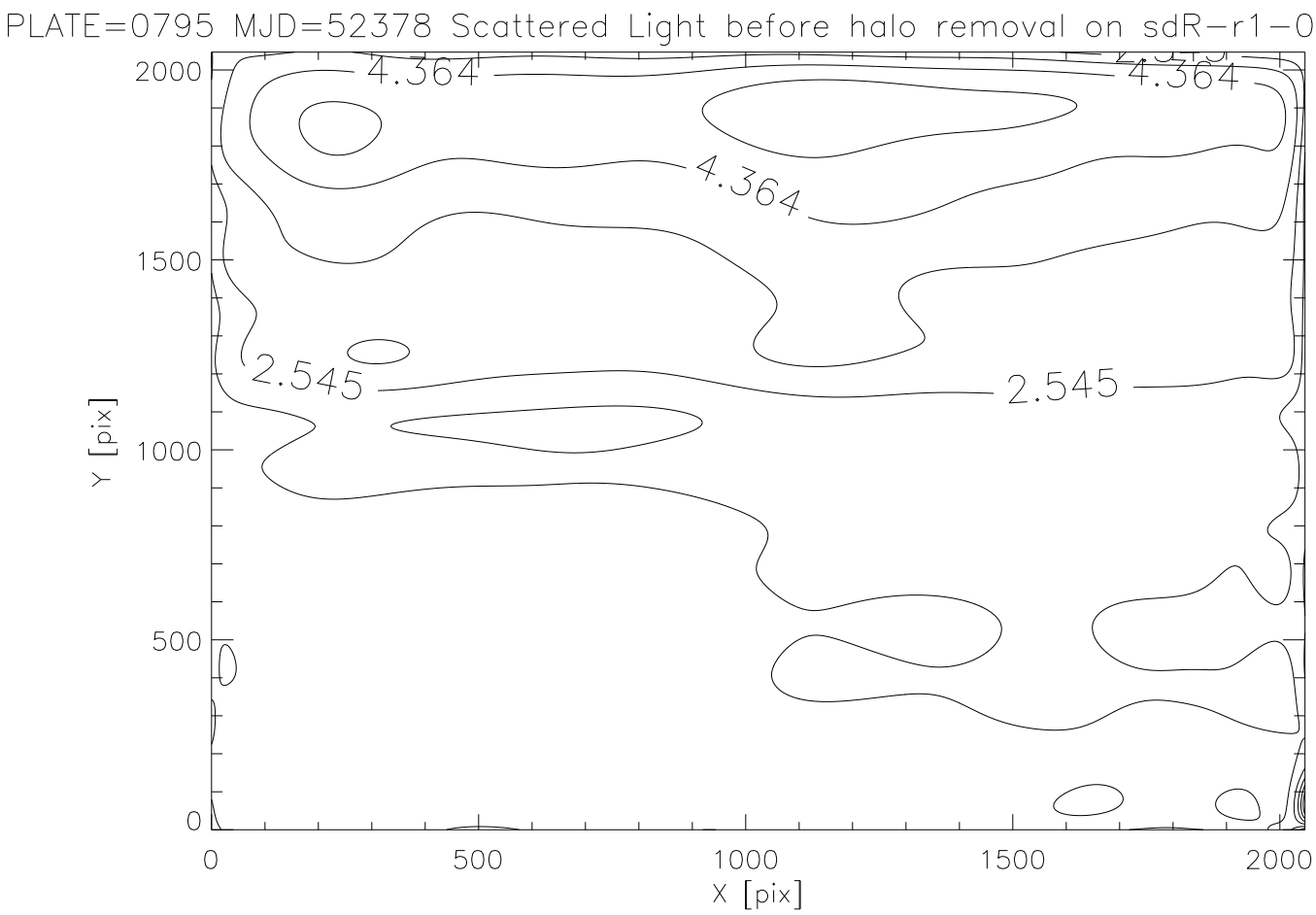

PLATE=0795 MJD=52378 sdR-r1-00014569.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

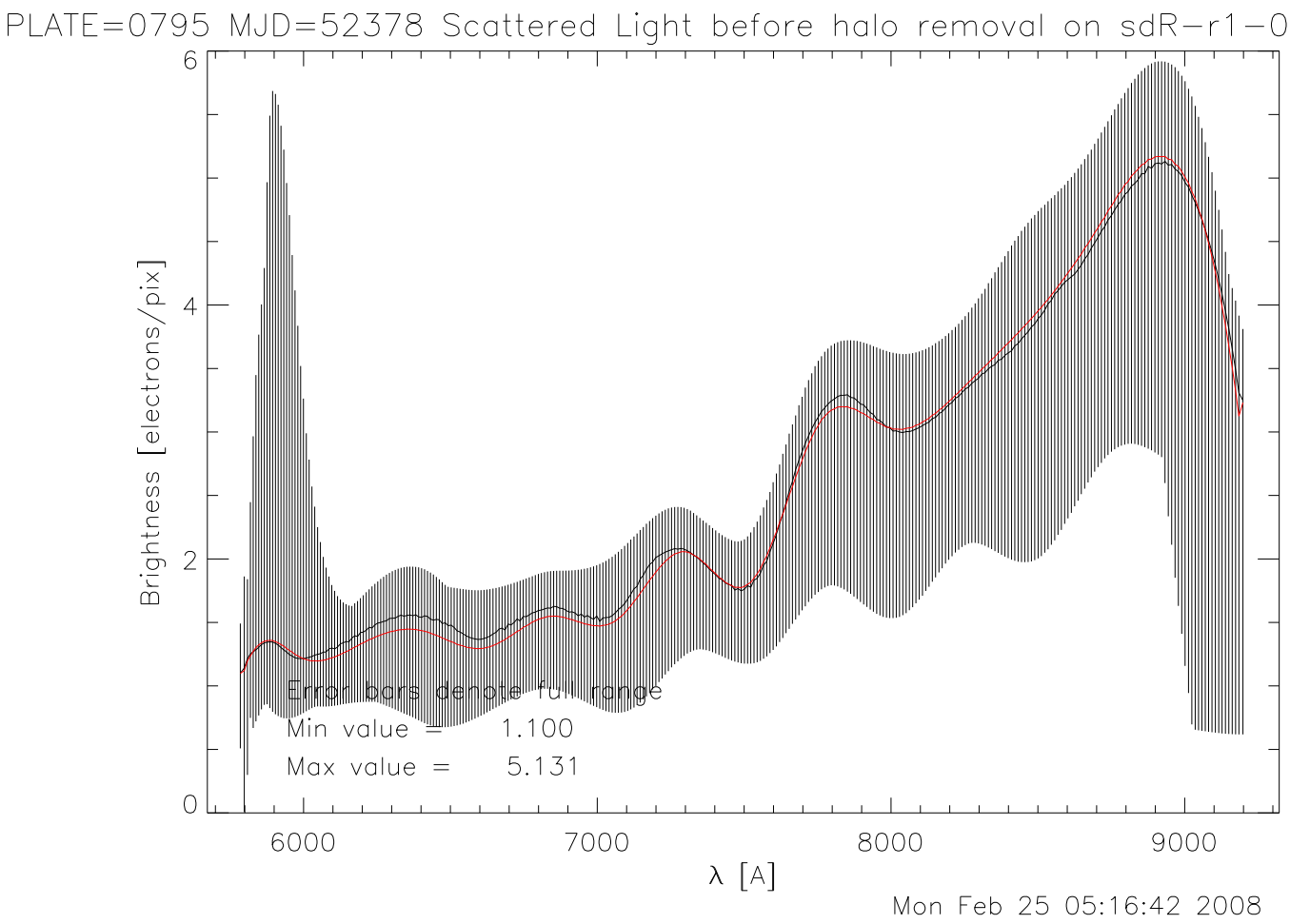

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014569.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

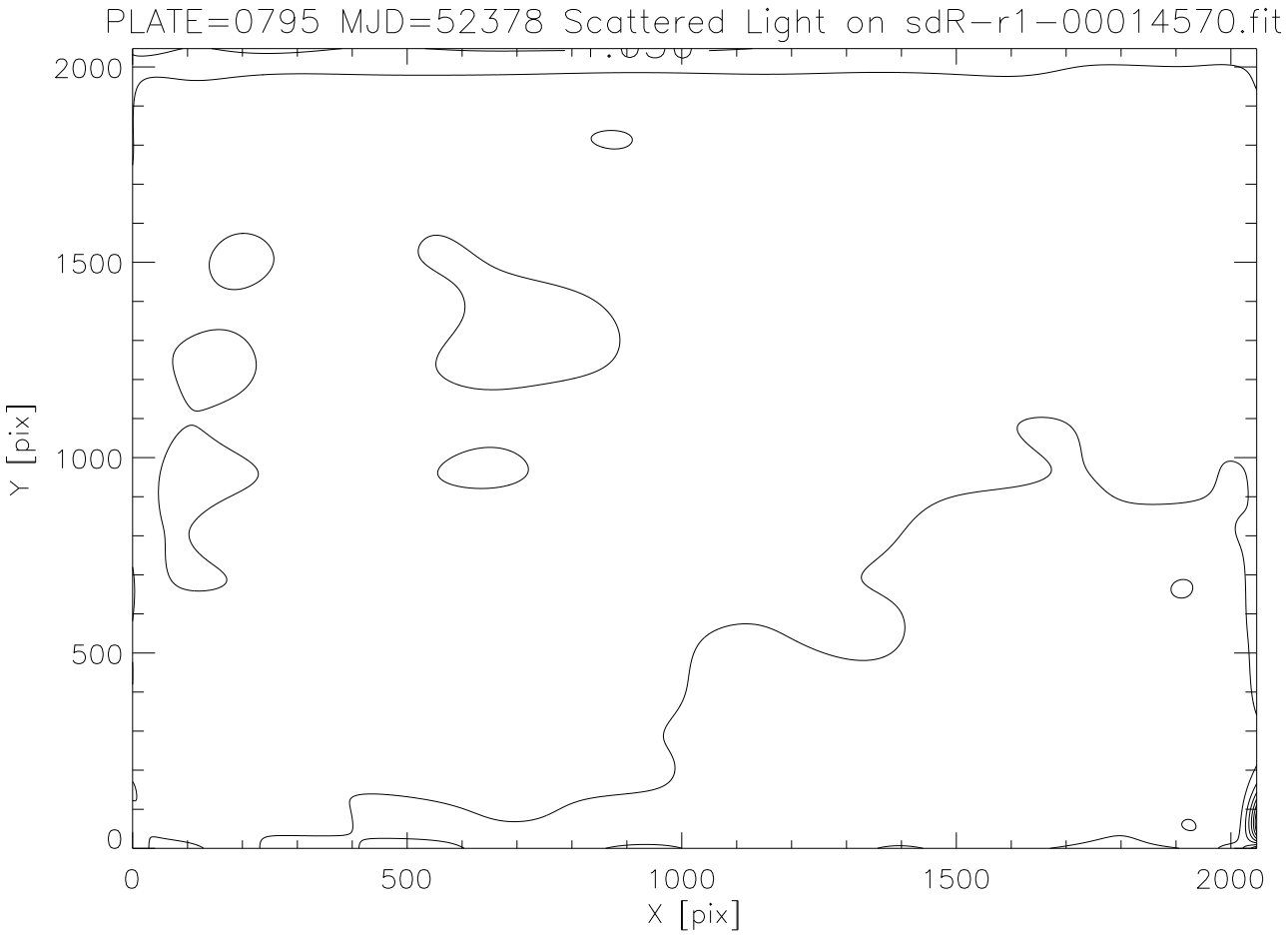

PLATE=0795 MJD=52378 sdR-r1-00014569.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.38 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

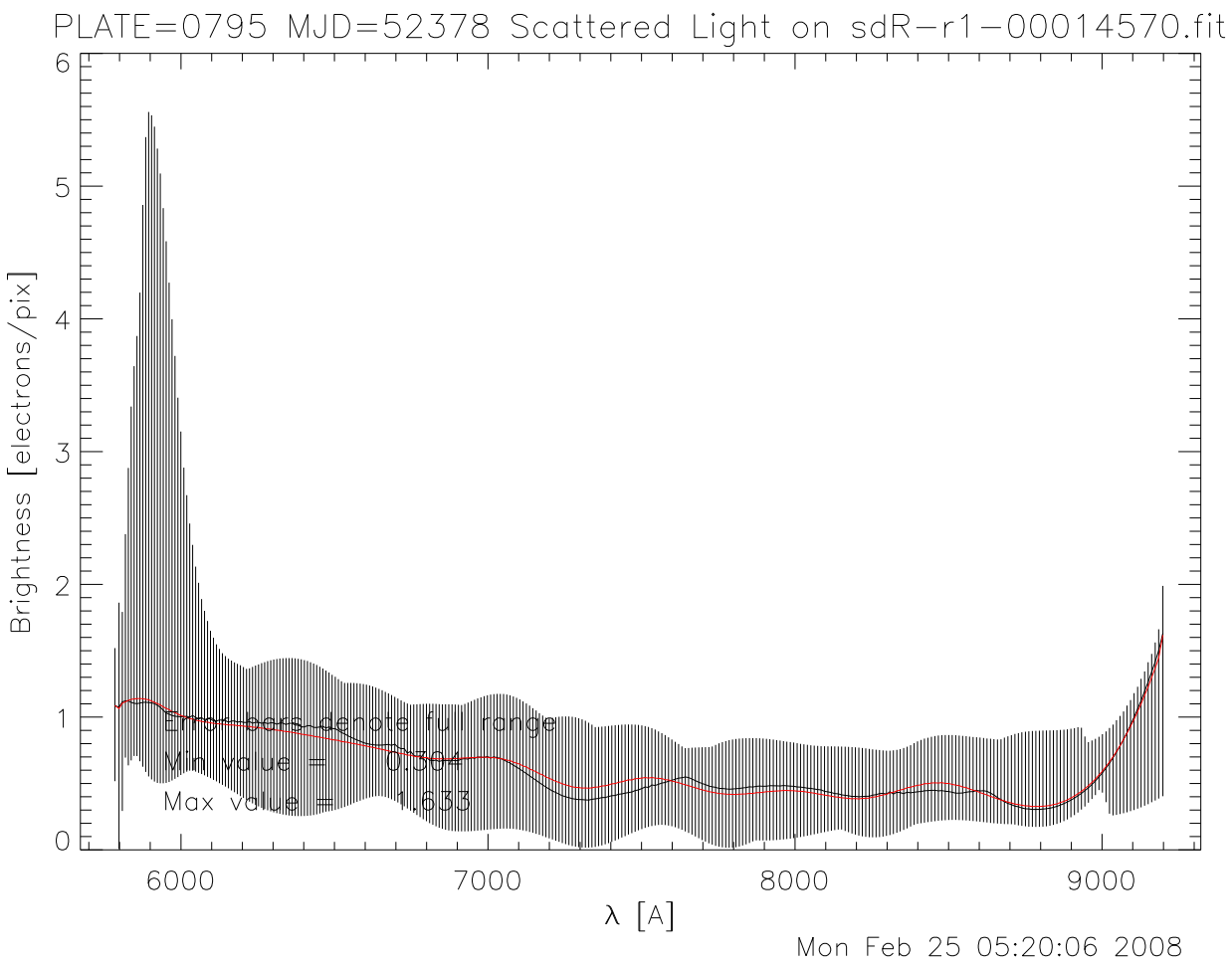

PLATE=0795 MJD=52378 sdR-r1-00014569.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.72 %
Fiber number
Focal Distance [mm]
Airmass

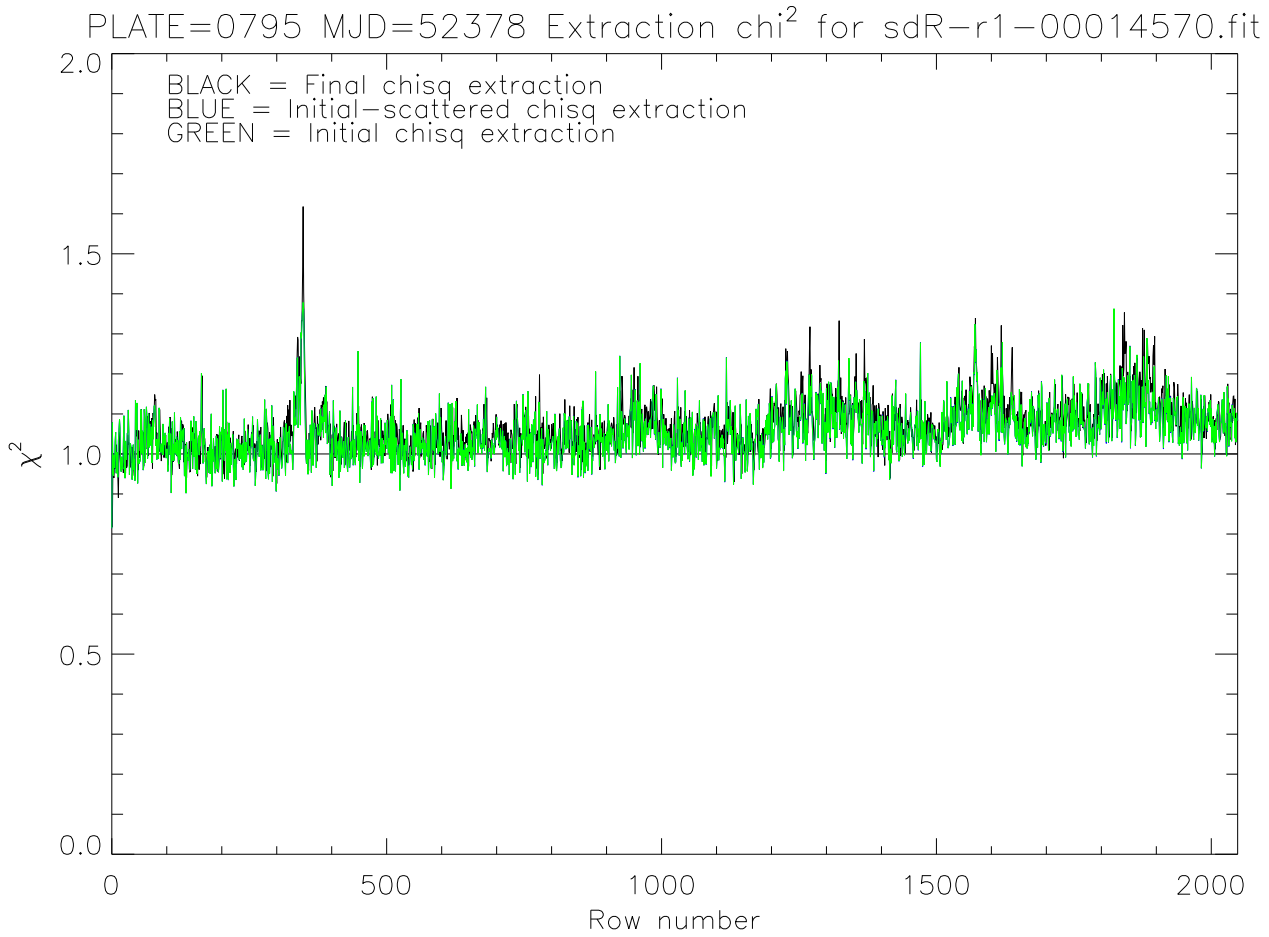

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r1−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.619
Max value = 1.418
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 05:16:03 2008

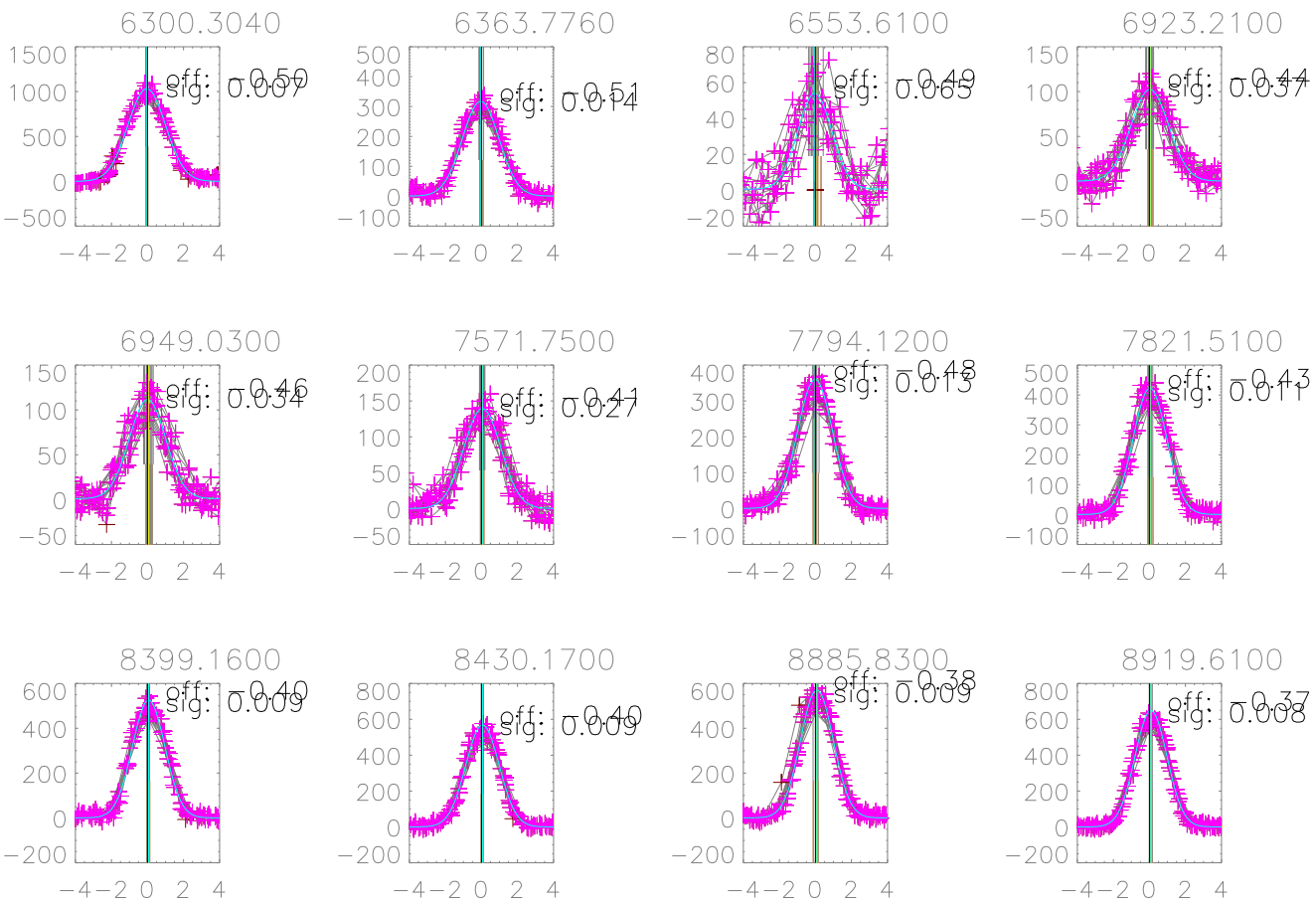

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014570.fi
4.364
4.364
4.364
2.545
2.545
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

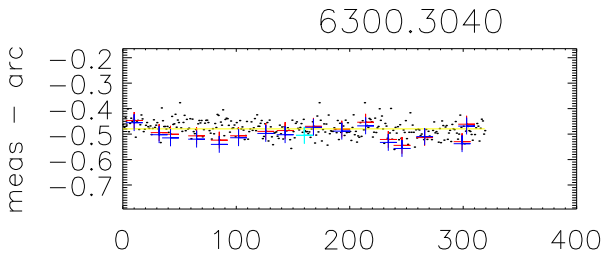

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r1-00014570.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.100
Max value = 5.131
Mon Feb 25 05:16:42 2008

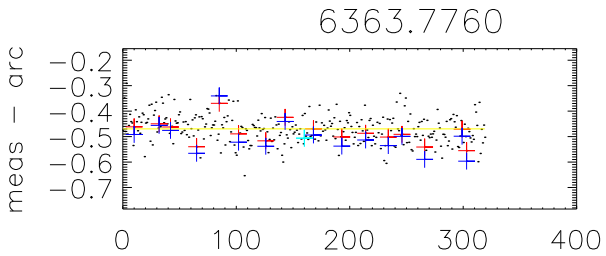

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014570.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

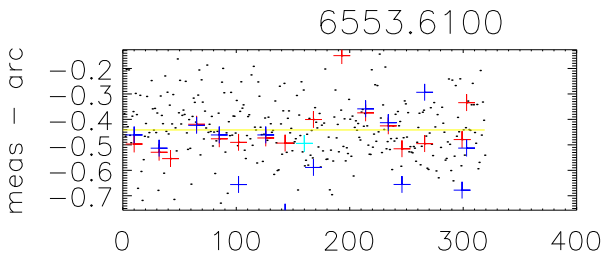

PLATE=0795 MJD=52378 Scattered Light on sdR-r1-00014570.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.304
Max value = 1.633
Mon Feb 25 05:20:06 2008

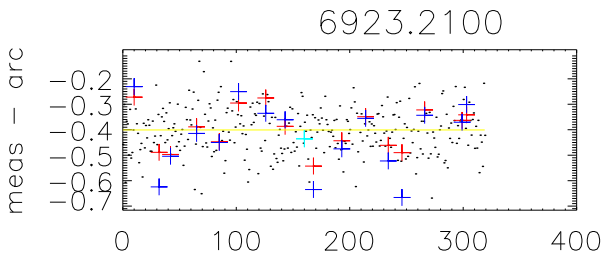

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r1−00014570.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

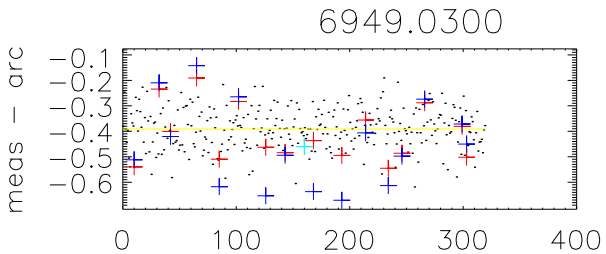

6300.3040
off: −0.59
sig: 0.007
6363.7760
off: −0.51
sig: 0.014
6553.6100
off: −0.49
sig: 0.065
6923.2100
off: −0.44
sig: 0.037
6949.0300
off: −0.46
sig: 0.034
7571.7500
off: −0.41
sig: 0.027
7794.1200
off: −0.48
sig: 0.013
7821.5100
off: −0.43
sig: 0.011
8399.1600
off: −0.40
sig: 0.009
8430.1700
off: −0.40
sig: 0.009
8885.8300
off: −0.38
sig: 0.009
8919.6100
off: −0.37
sig: 0.008

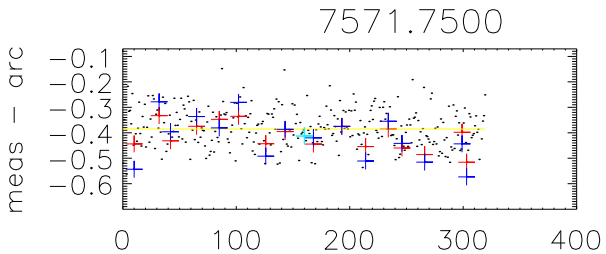

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

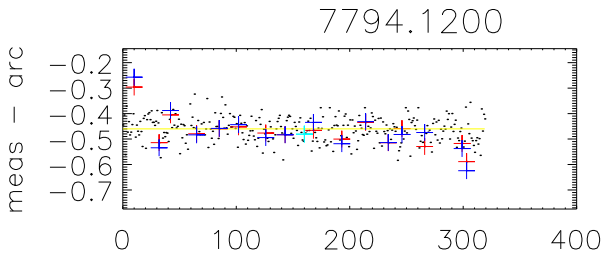

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

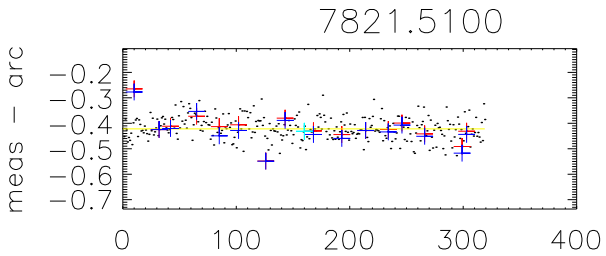

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

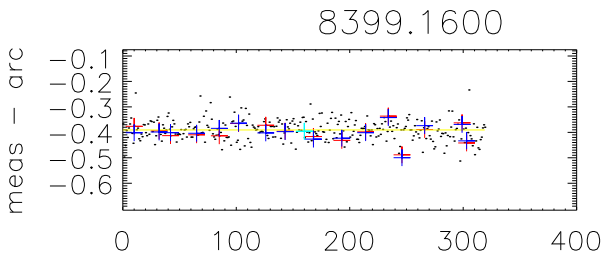

6923.2100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

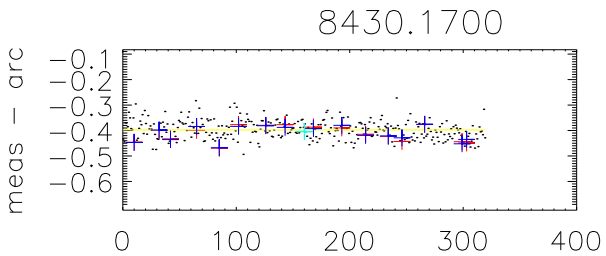

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

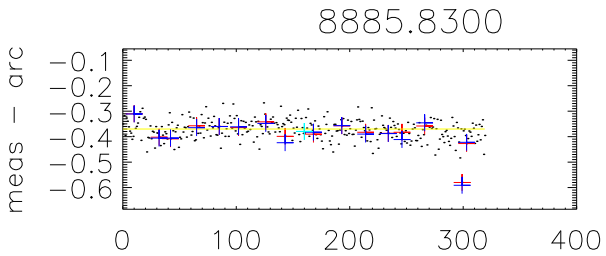

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

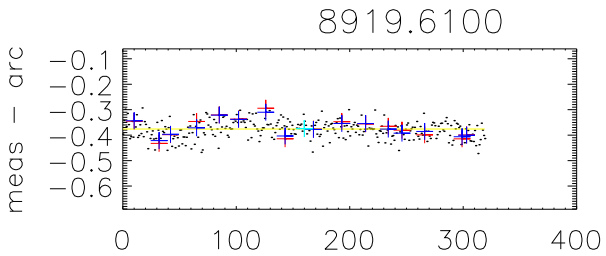

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

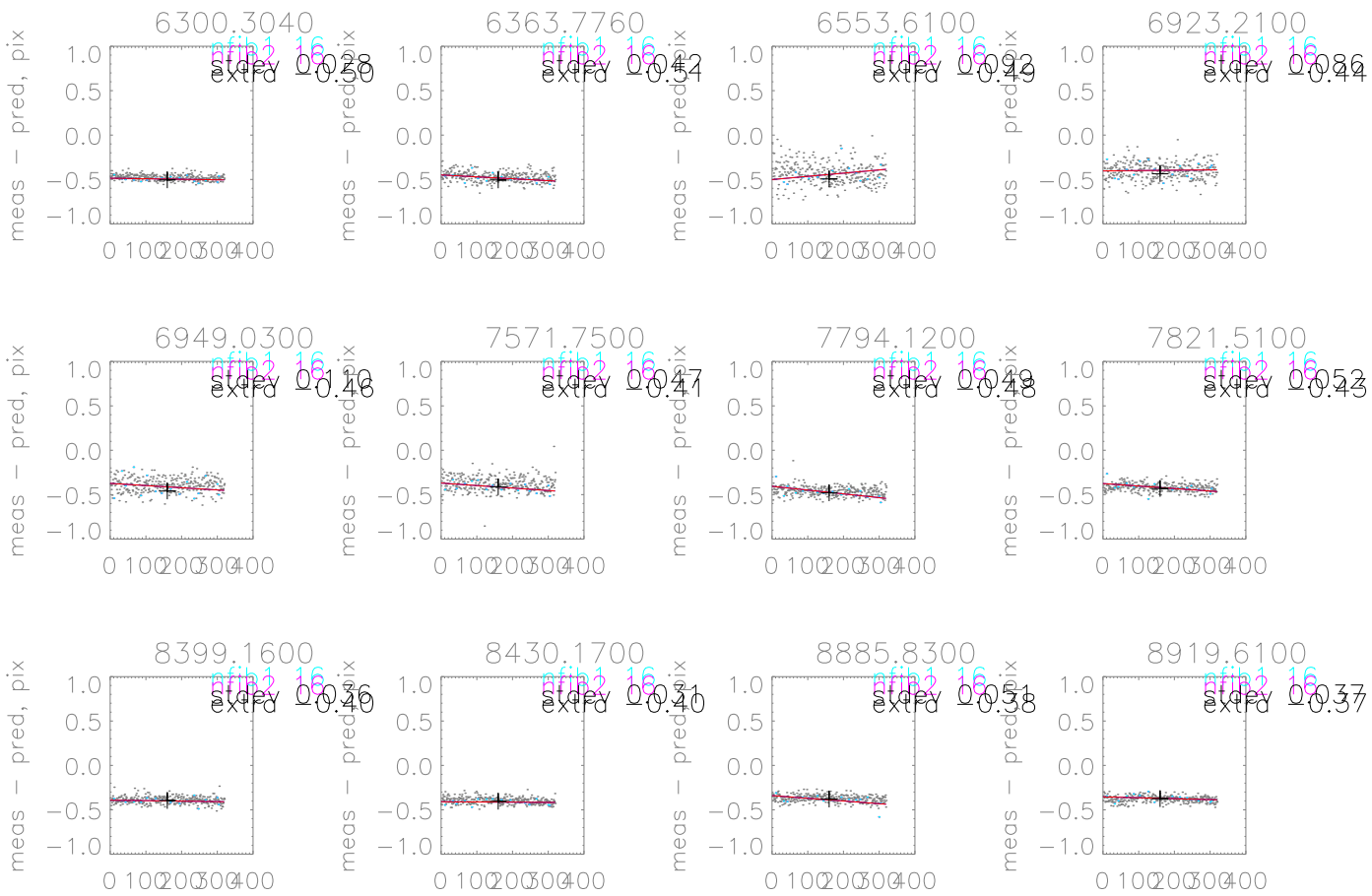

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

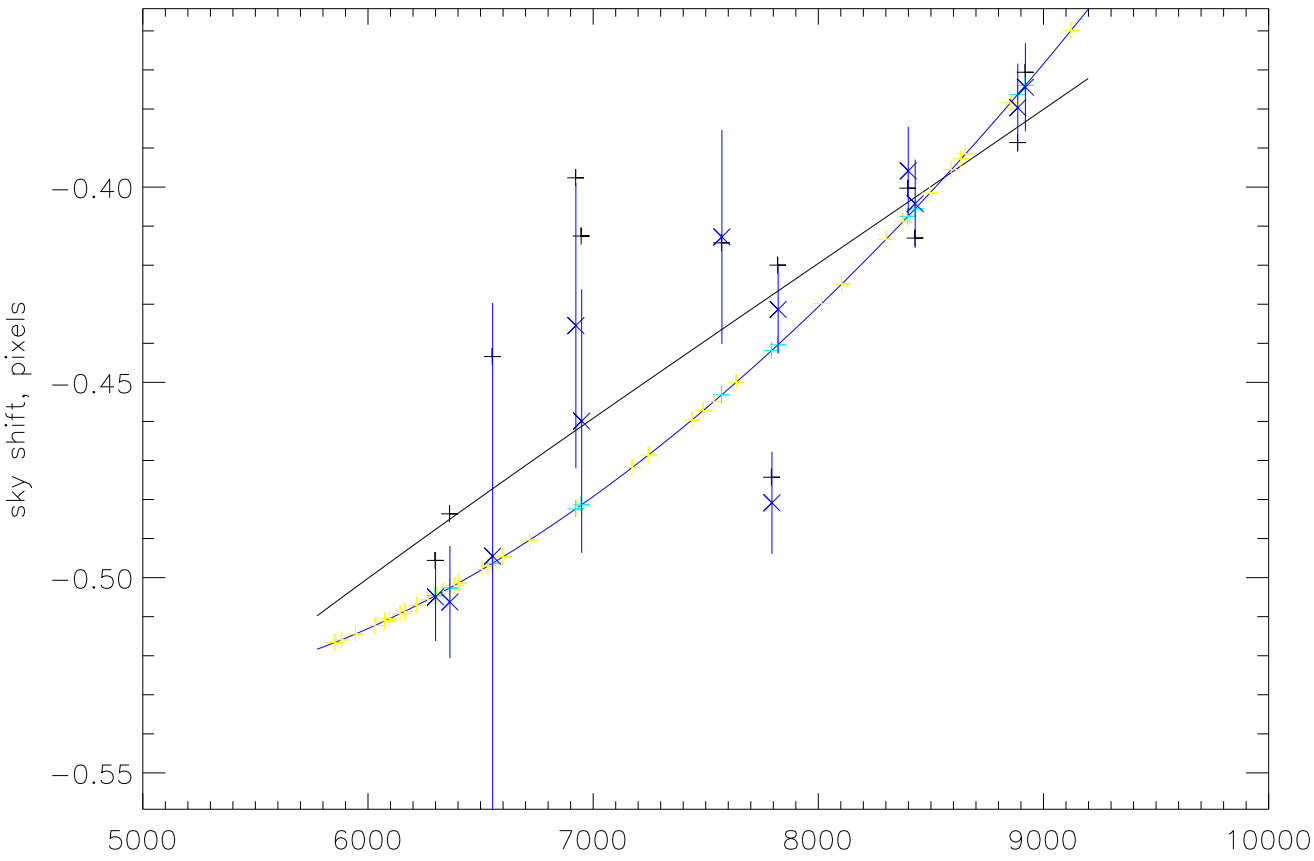

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

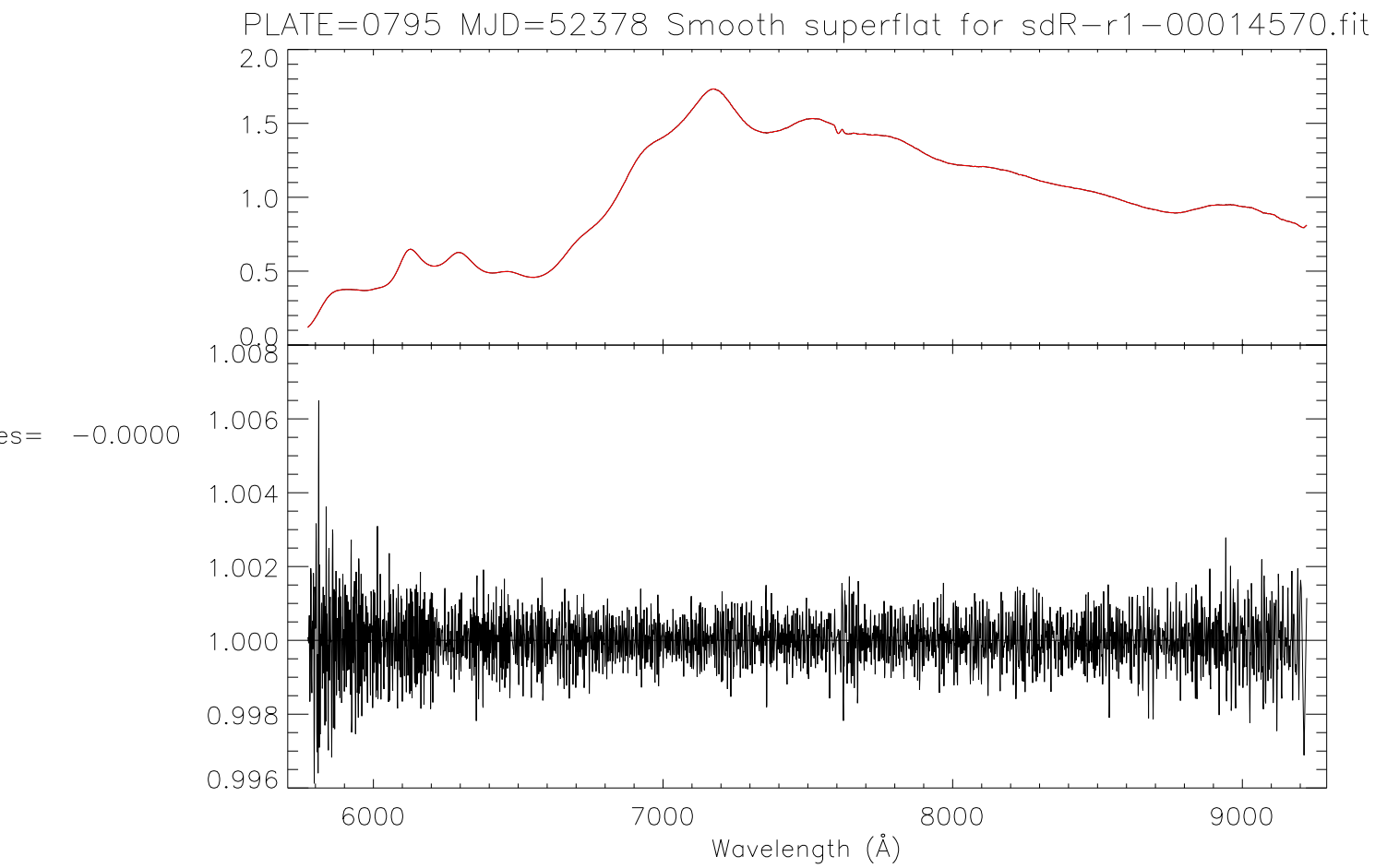

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

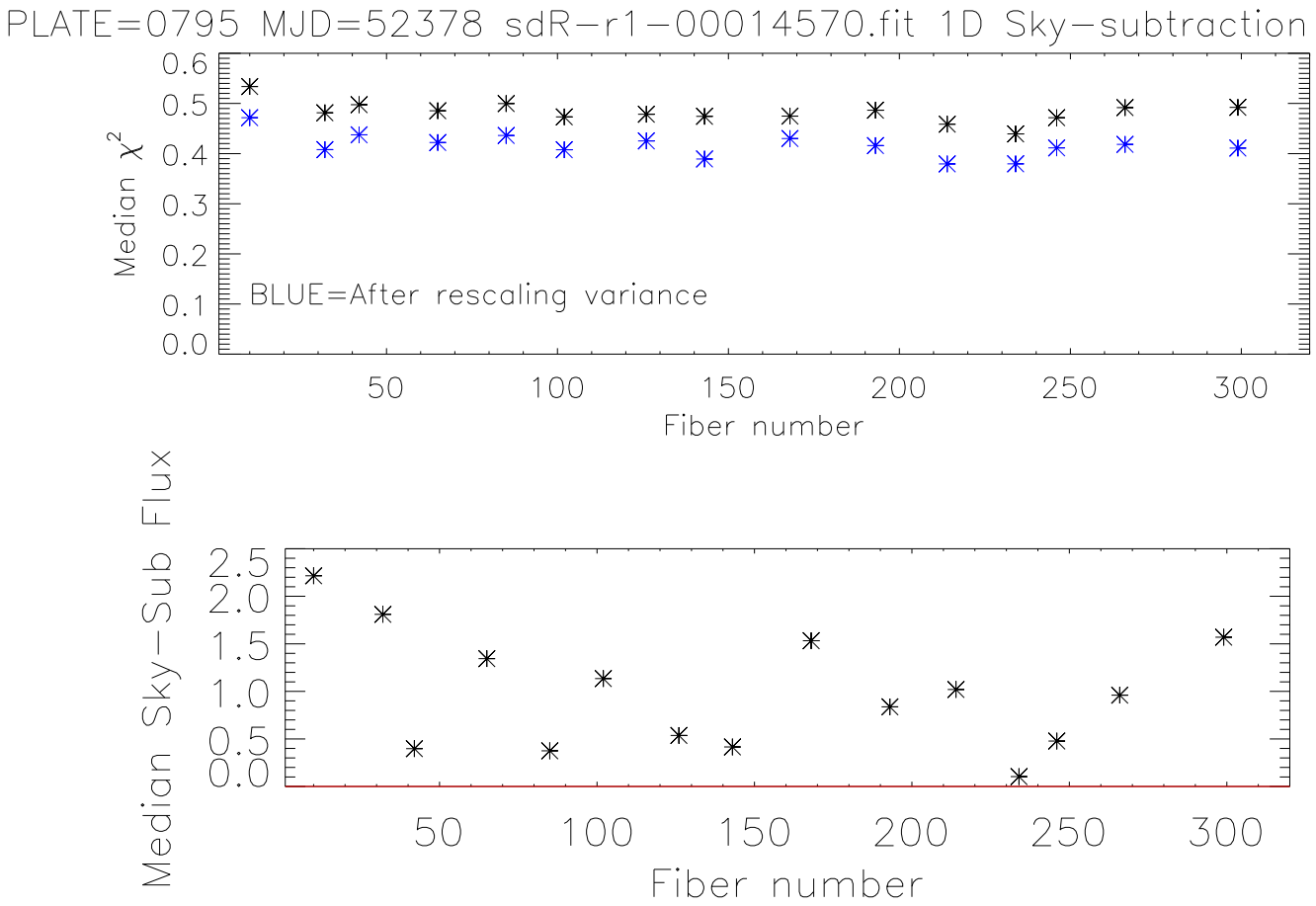

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

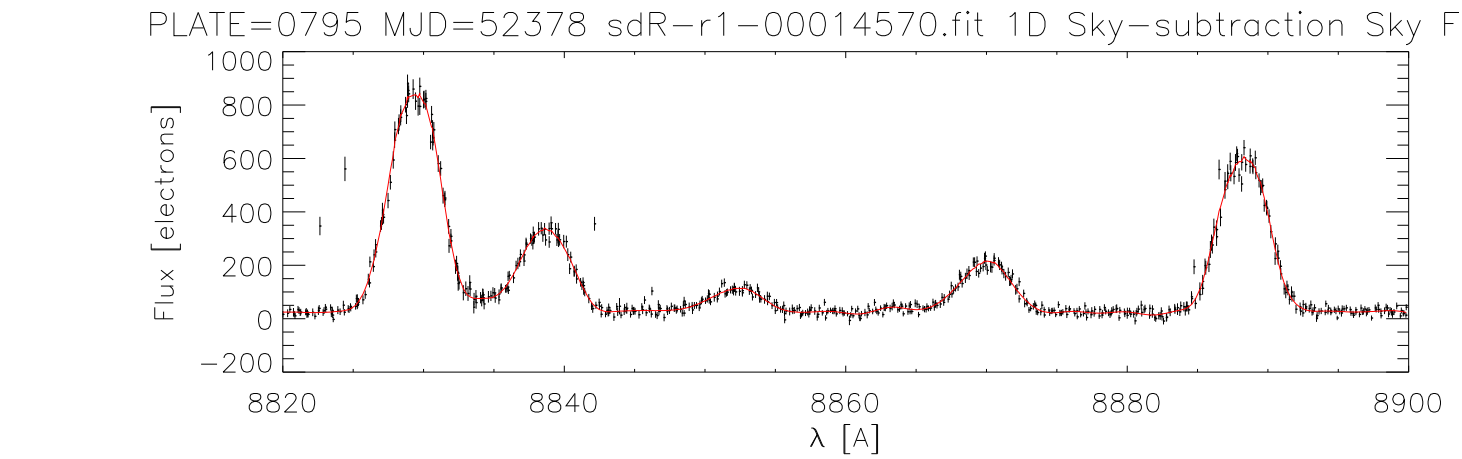

6300.3040
stdev 0.28
extra 0.50
6363.7760
stdev 0.42
extra 0.54
6553.6100
stdev 0.92
extra 0.49
6923.2100
stdev 0.86
extra 0.44
6949.0300
stdev 0.10
extra 0.46
7571.7500
stdev 0.47
extra 0.41
7794.1200
stdev 0.49
extra 0.48
7821.5100
stdev 0.52
extra 0.43
8399.1600
stdev 0.36
extra 0.40
8430.1700
stdev 0.31
extra 0.40
8885.8300
stdev 0.51
extra 0.38
8919.6100
stdev 0.37
extra 0.37
meas − pred, pix
mfhd2 16

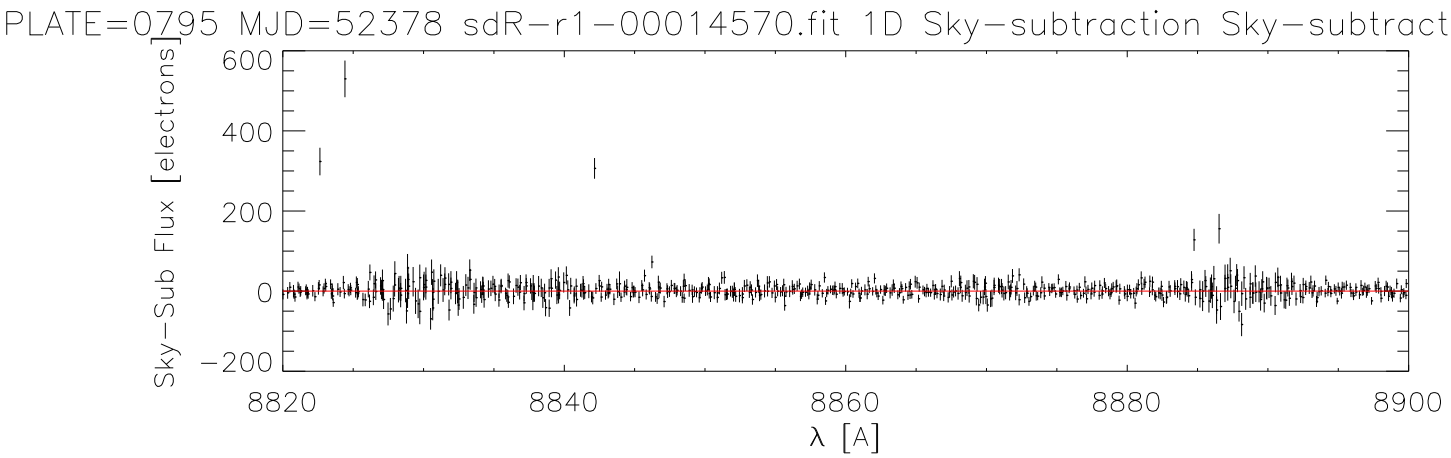

sky shift, pixels
−0.40
−0.45
−0.50
−0.55
5000
6000
7000
8000
9000
10000

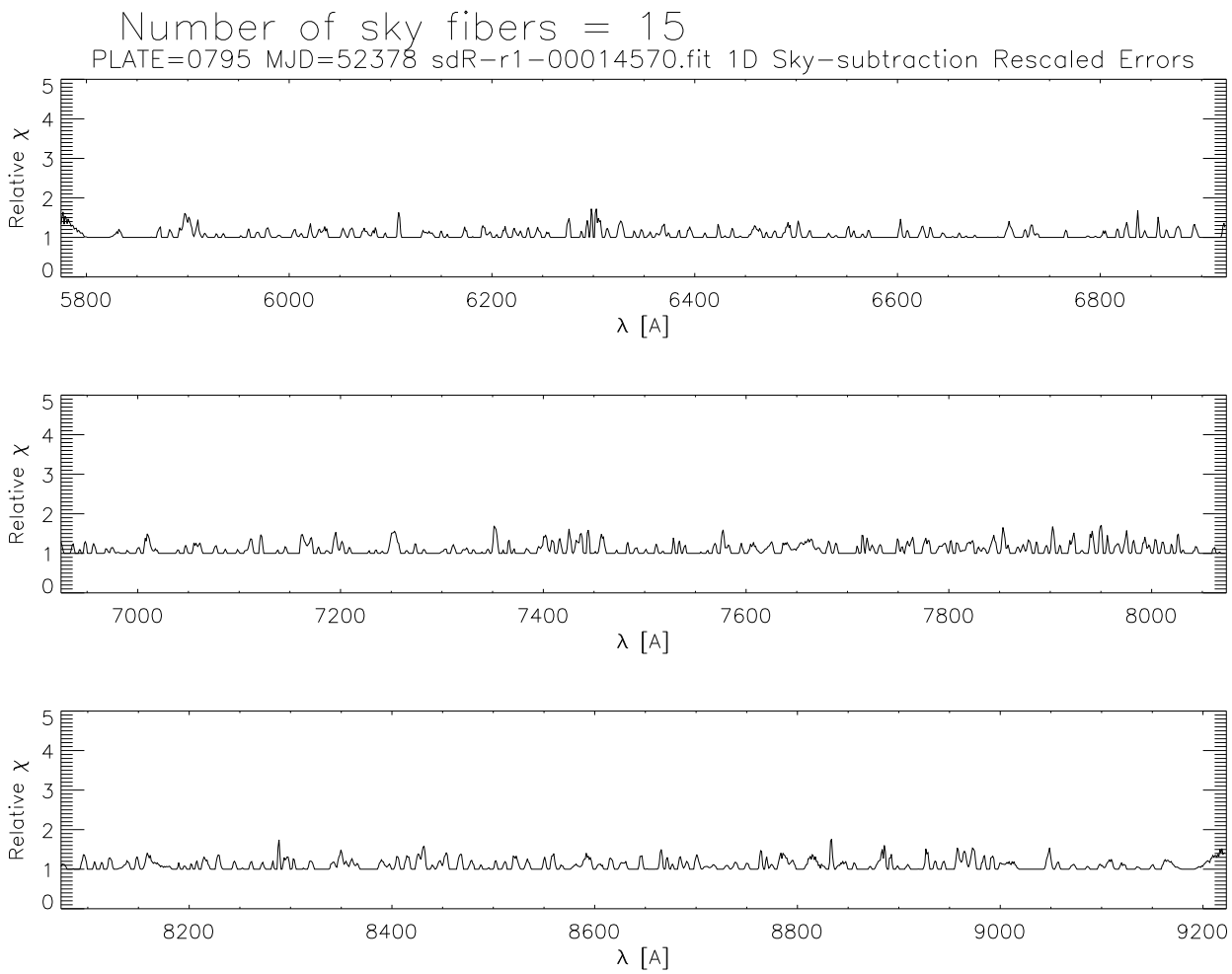

PLATE=0795 MJD=52378 Smooth superflat for sdR-r1-00014570.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

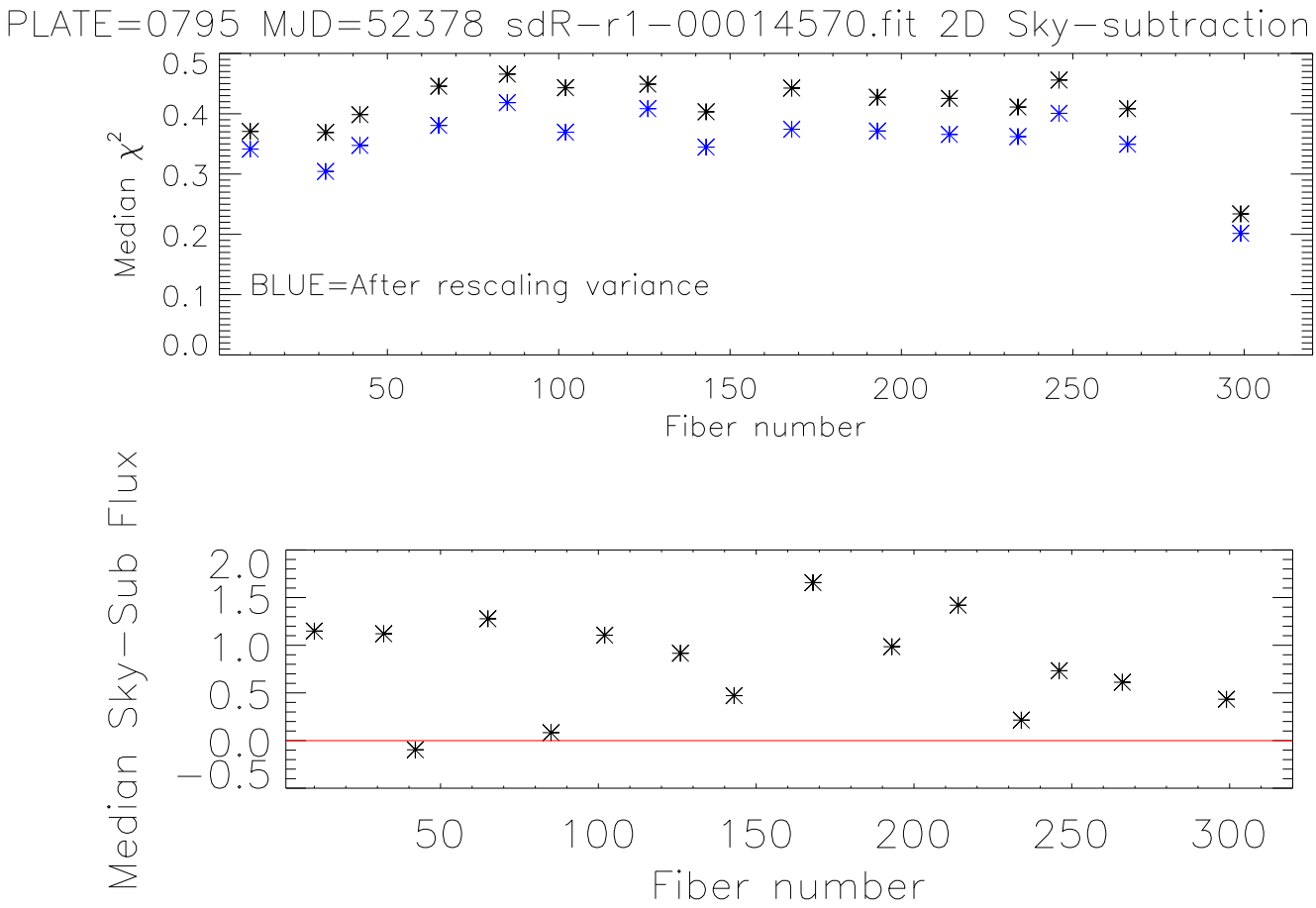
es= −0.0000

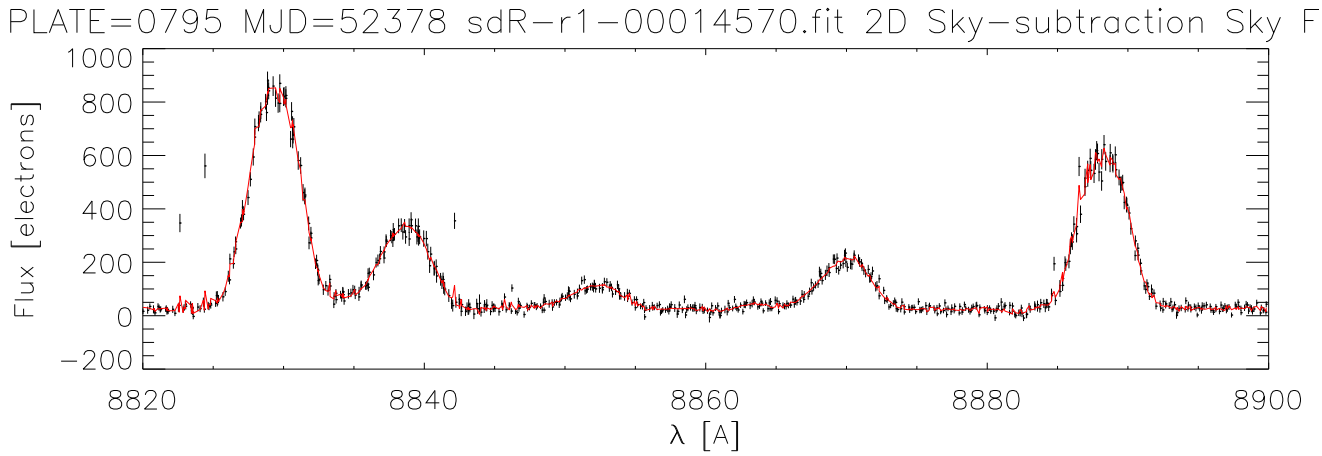

PLATE=0795 MJD=52378 sdR-r1-00014570.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
0.0
0.5
1.0
1.5
2.0
2.5
50
100
150
200
250
300
Fiber number

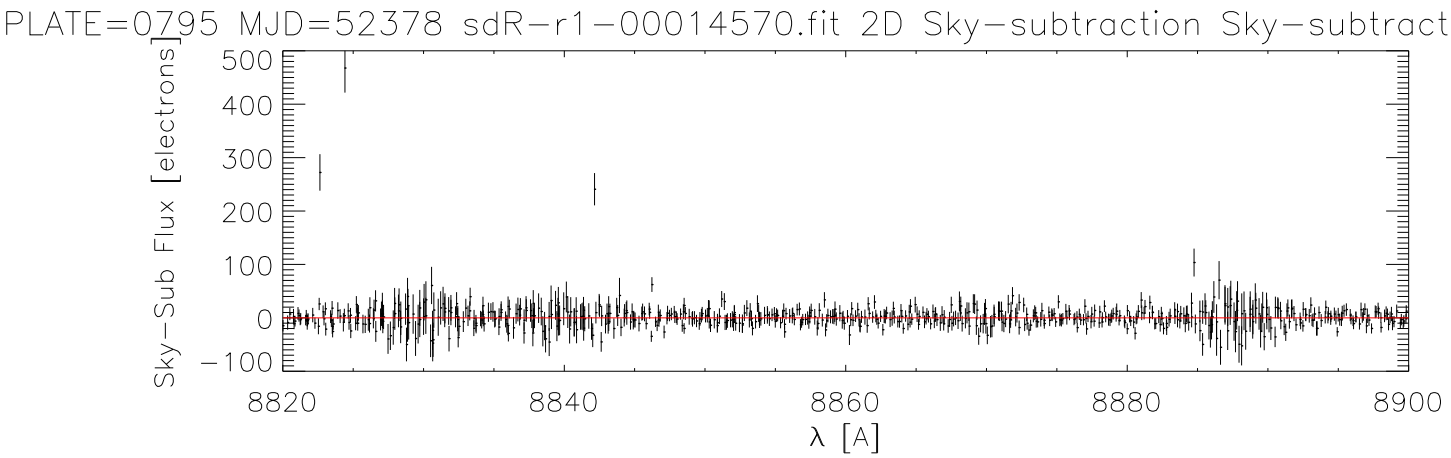

PLATE=0795 MJD=52378 sdR-r1-00014570.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

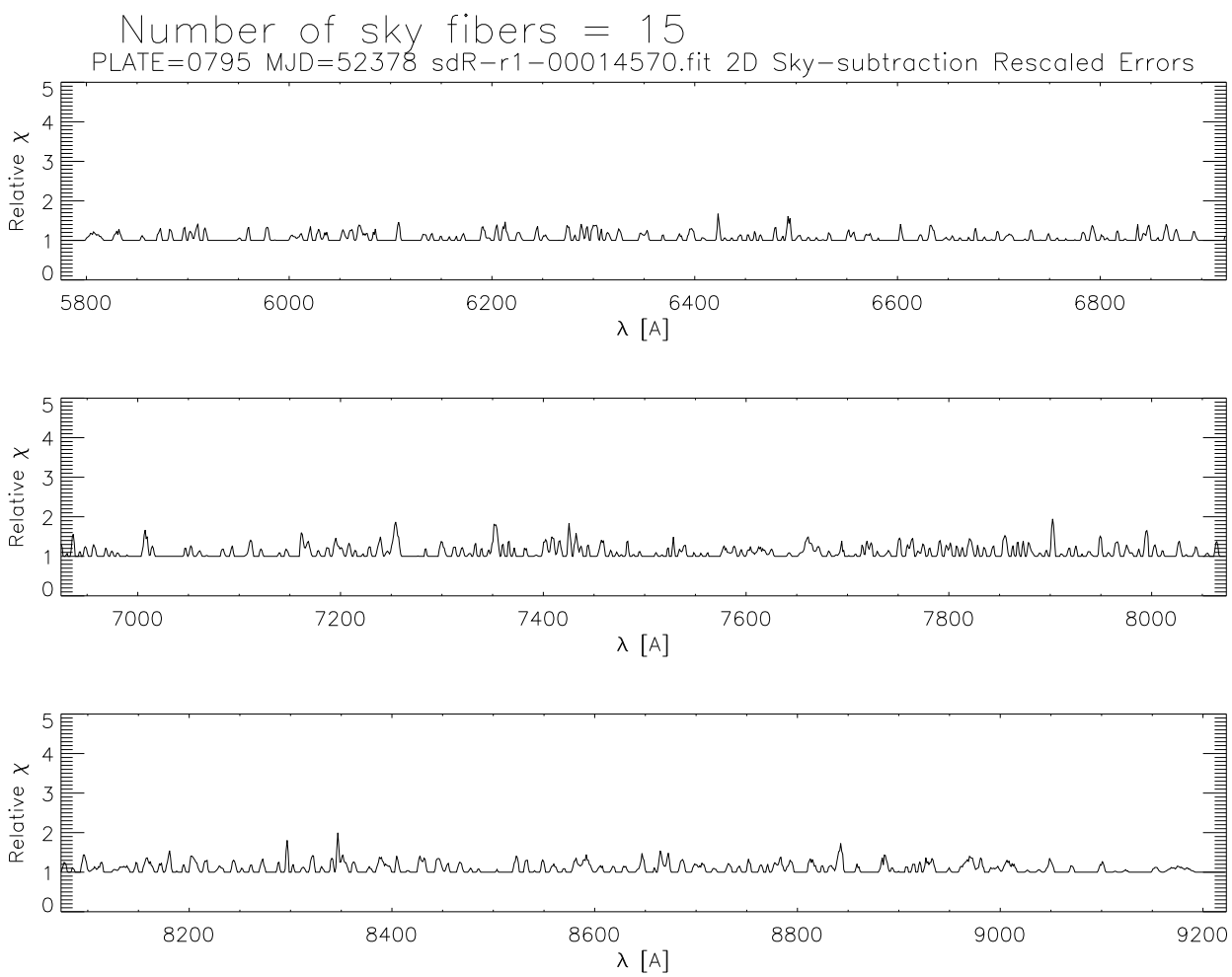

PLATE=0795 MJD=52378 sdR-r1-00014570.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

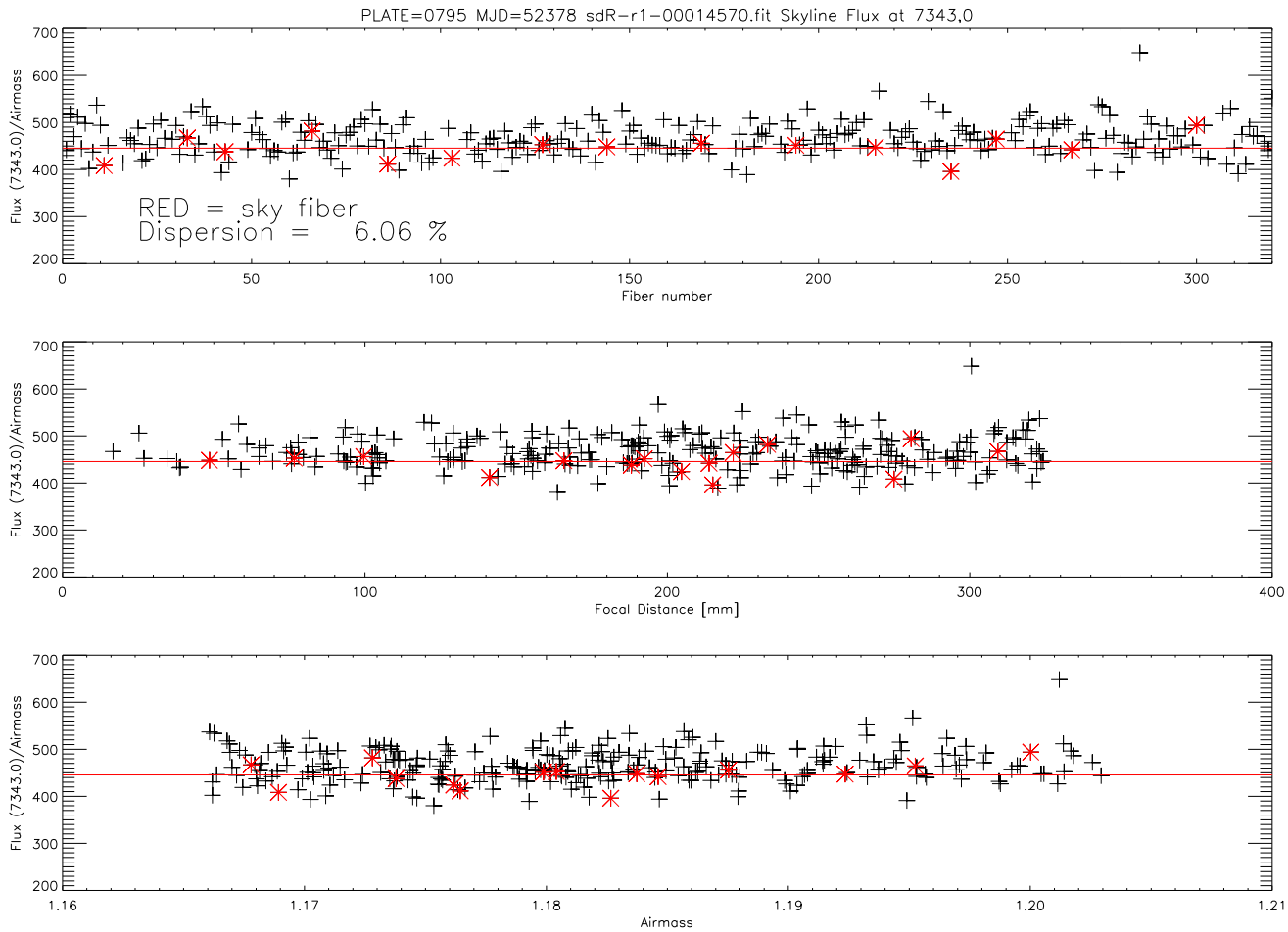

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014570.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

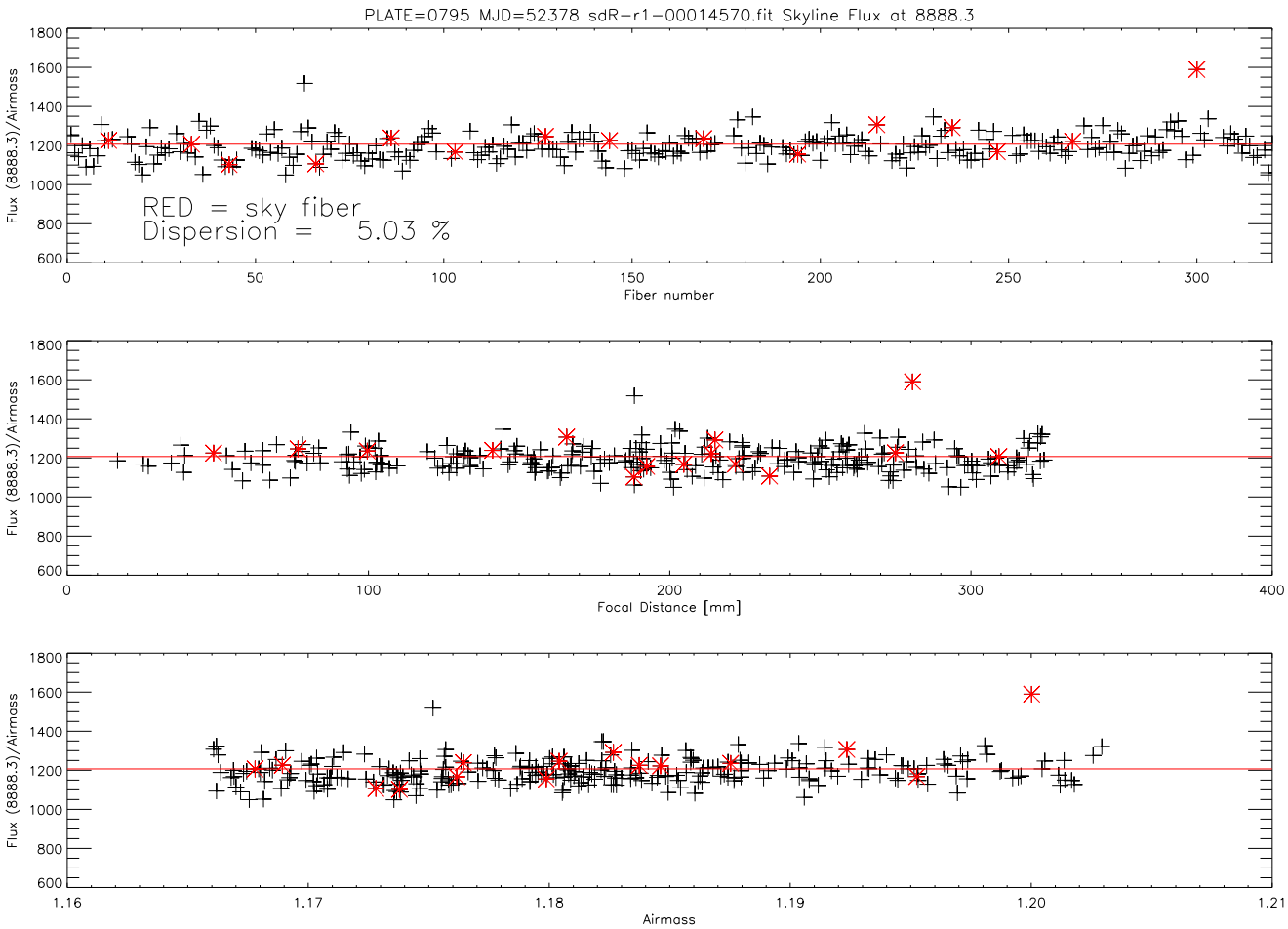

PLATE=0795 MJD=52378 sdR-r1-00014570.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

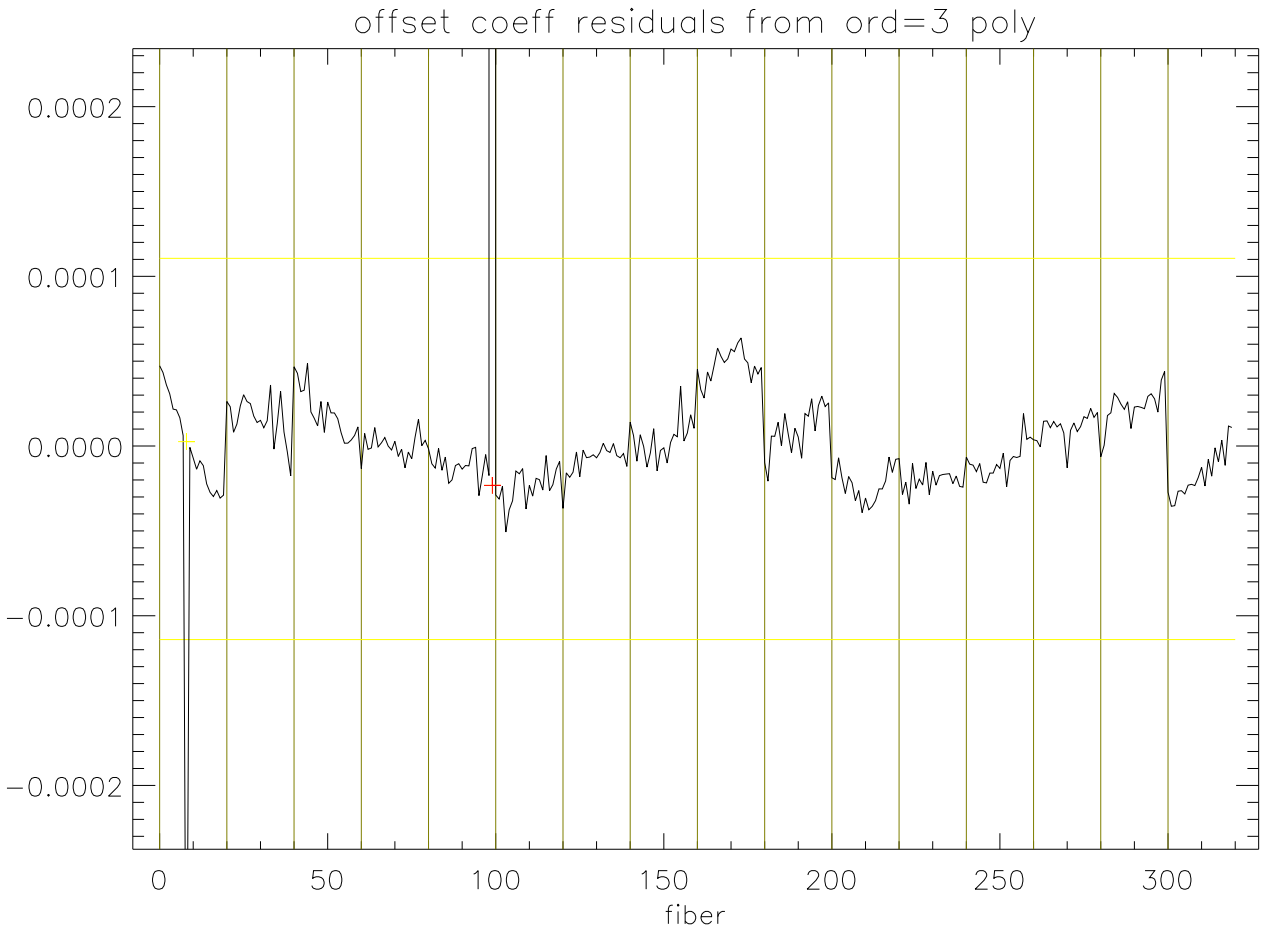

PLATE=0795 MJD=52378 sdR-r1-00014570.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

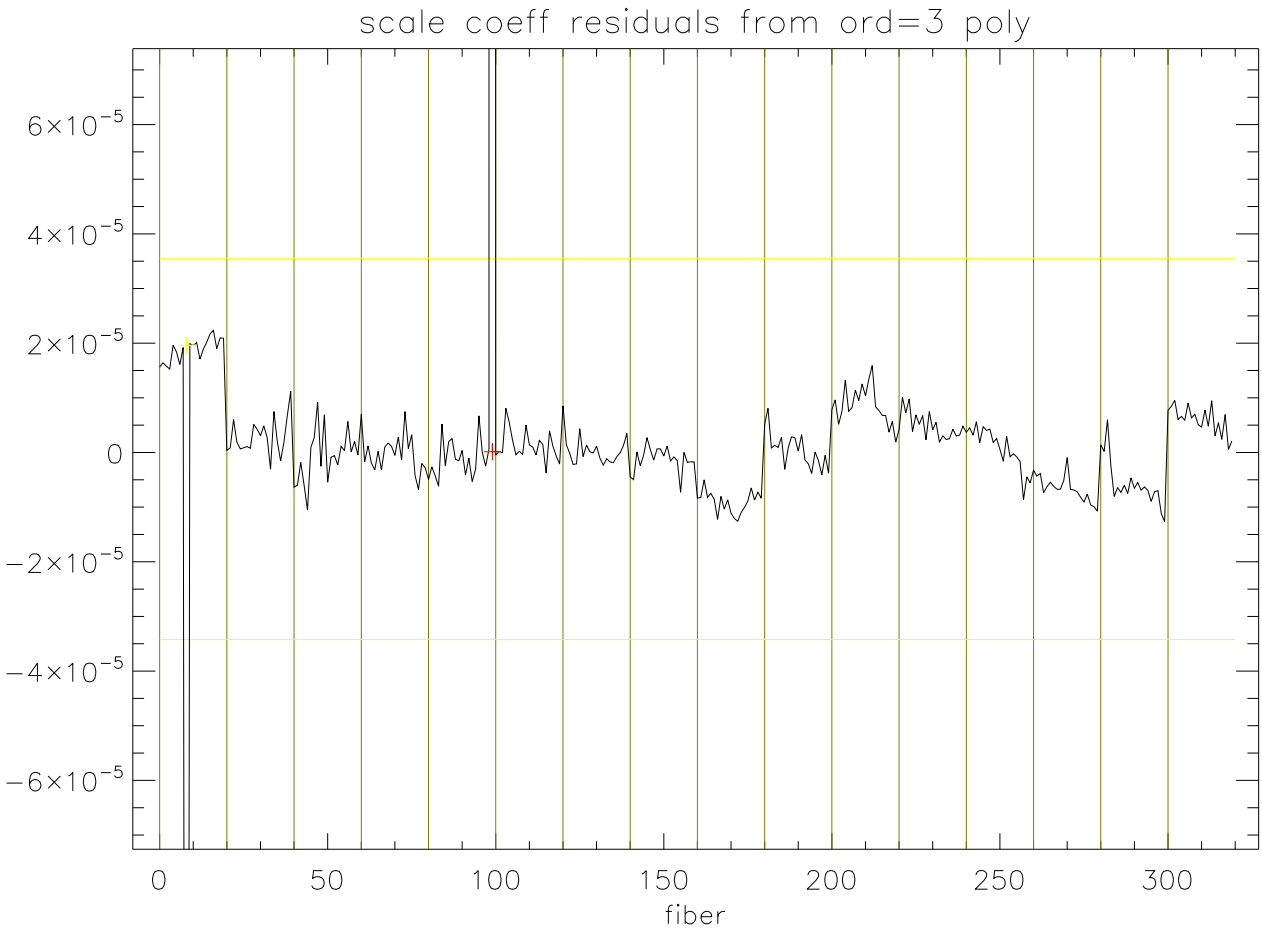

PLATE=0795 MJD=52378 sdR-r1-00014570.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
400
300
200
100
0
-100
8820
8840
8860
8880
8900
λ [A]

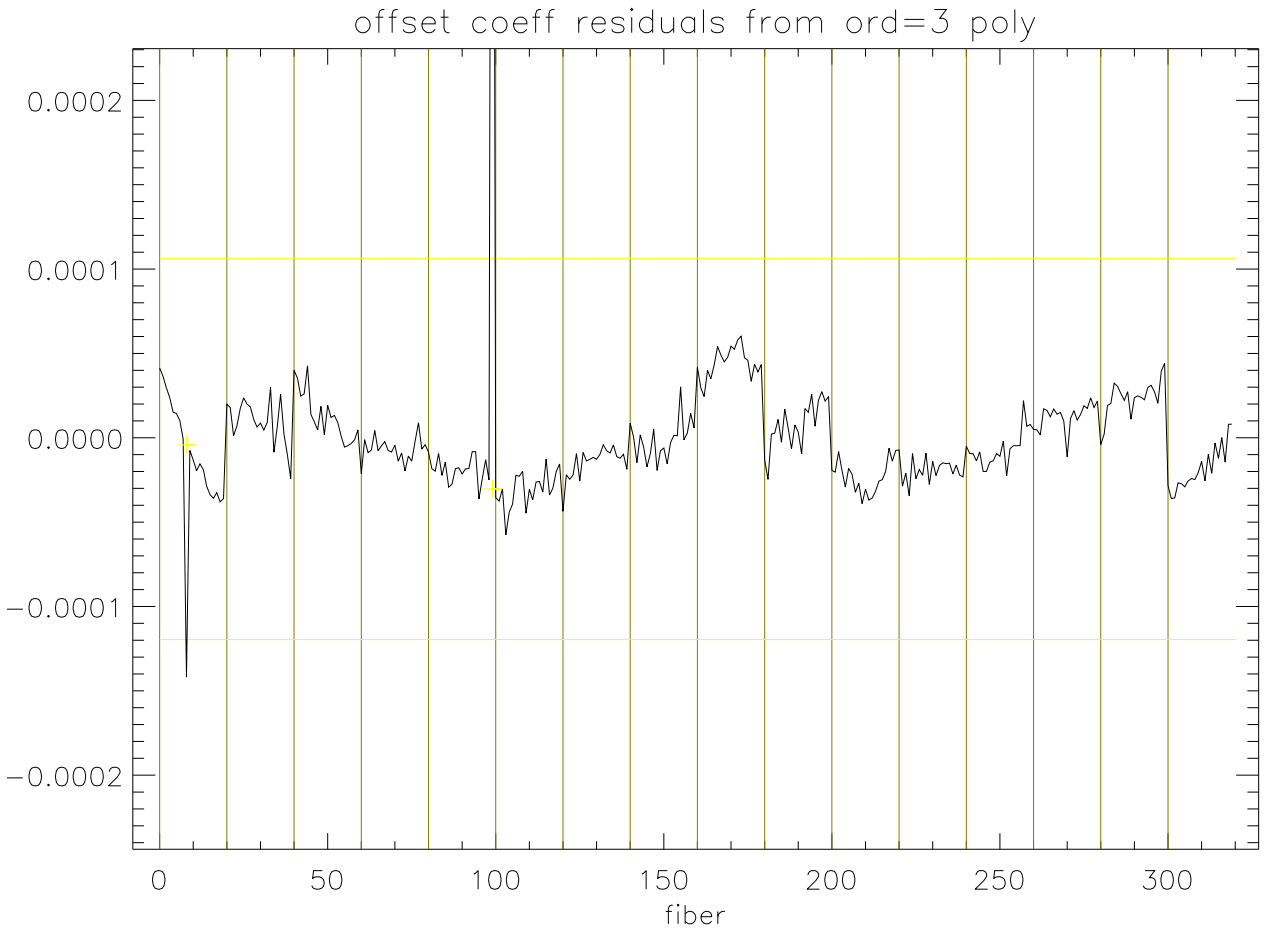

Number of sky fibers = 15
PLATE=0795 MJD=52378 sdR-r1-00014570.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

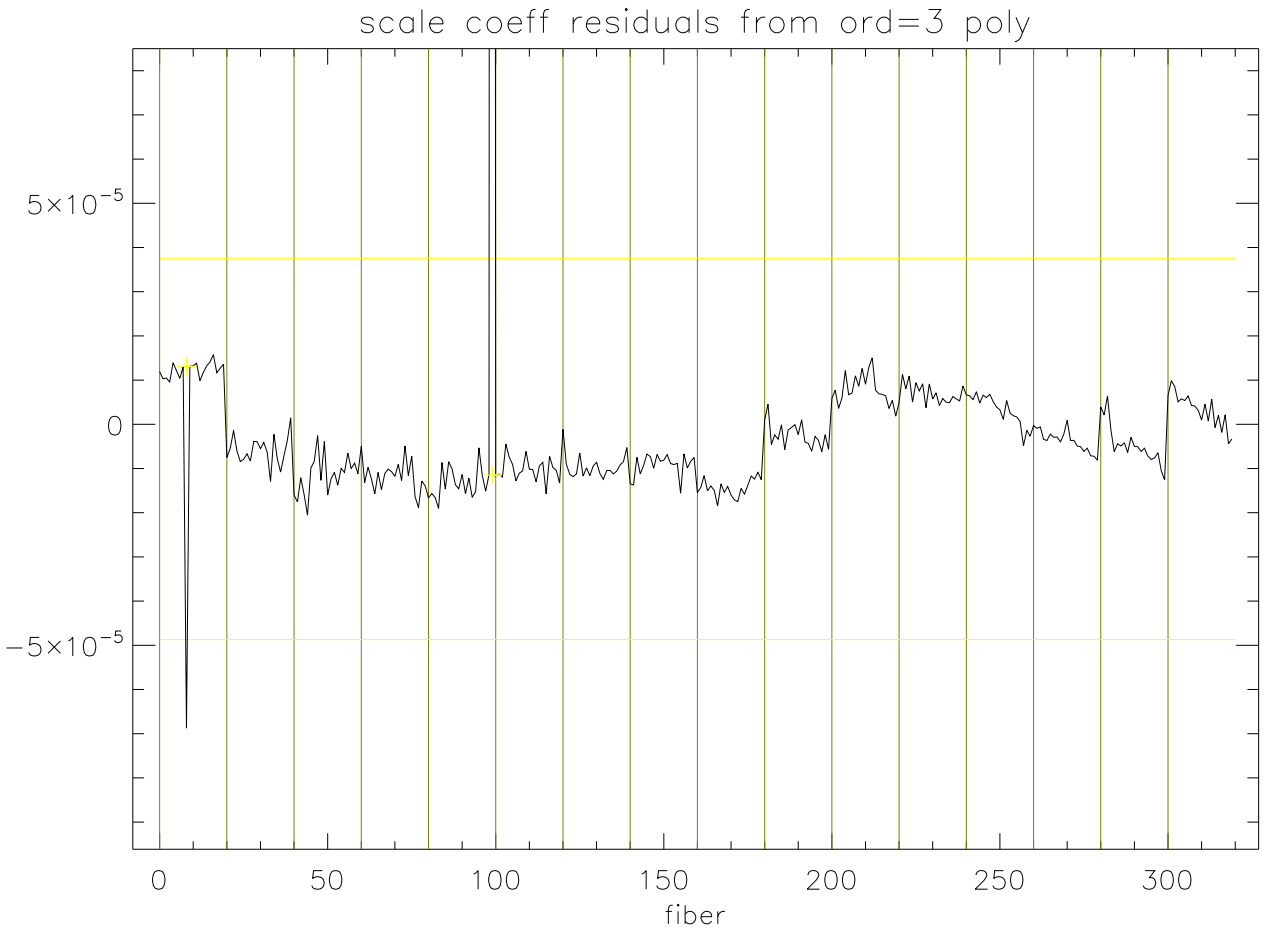

PLATE=0795 MJD=52378 sdR-r1-00014570.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 6.06 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

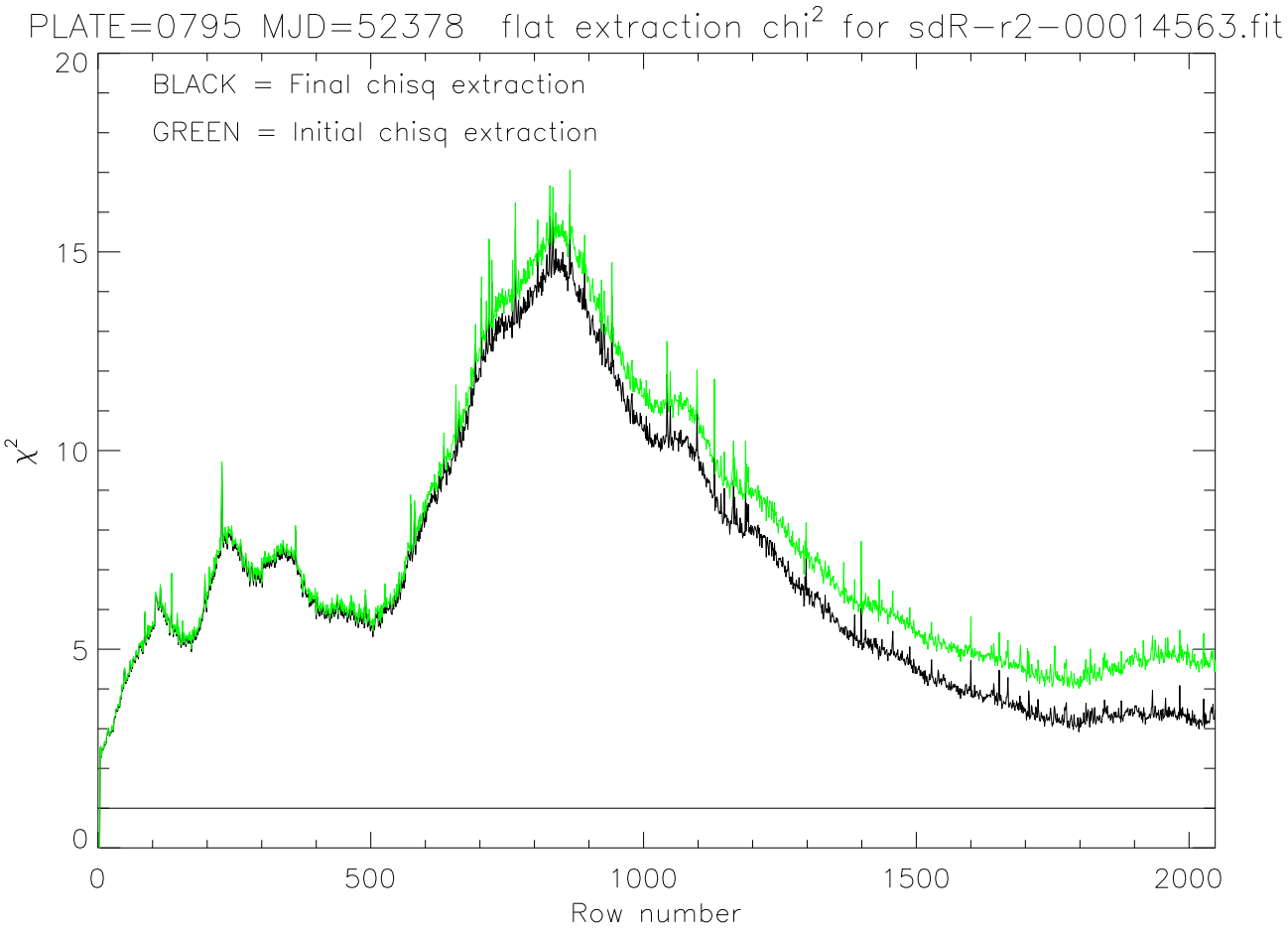

PLATE=0795 MJD=52378 sdR-r1-00014570.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 5.03 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

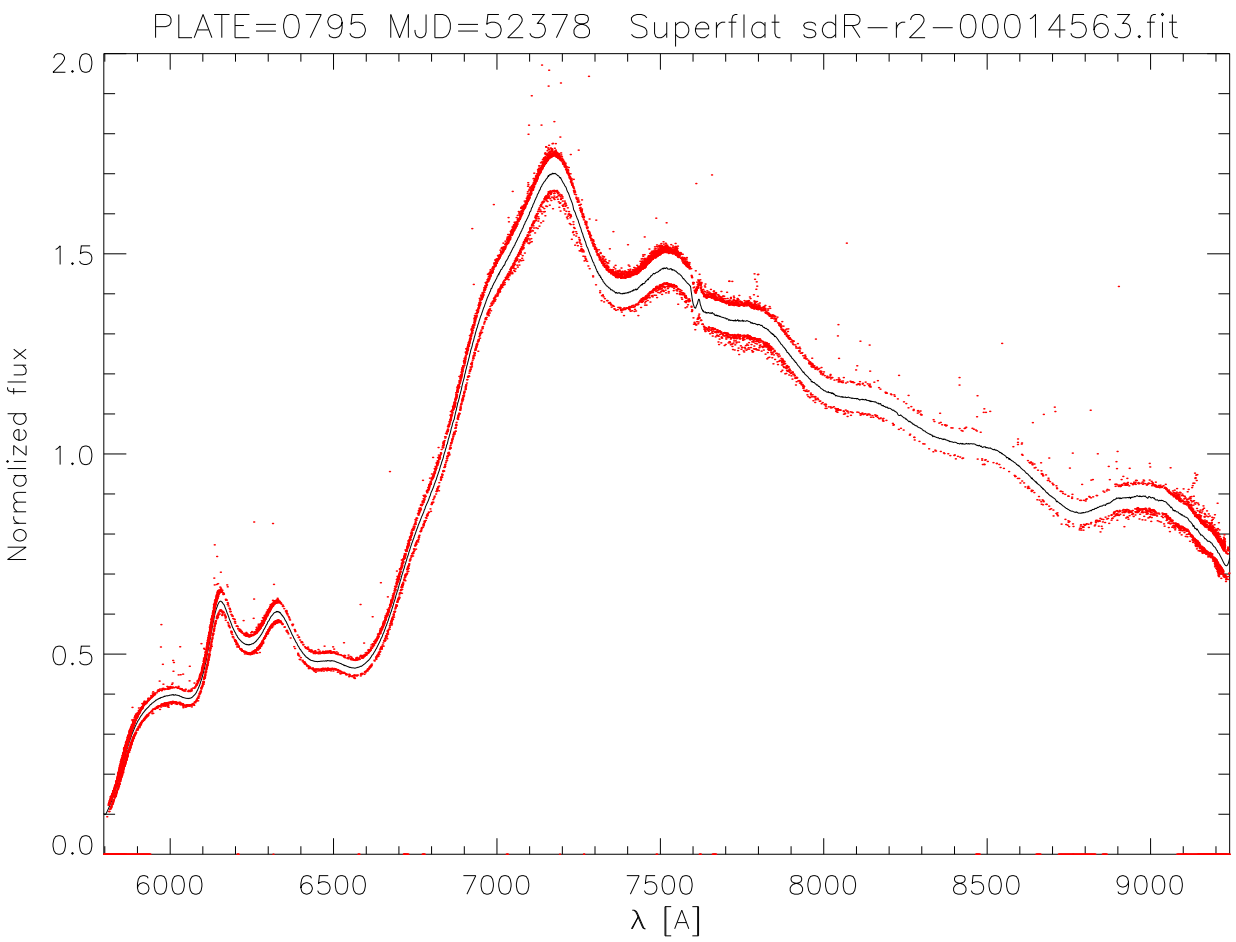

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

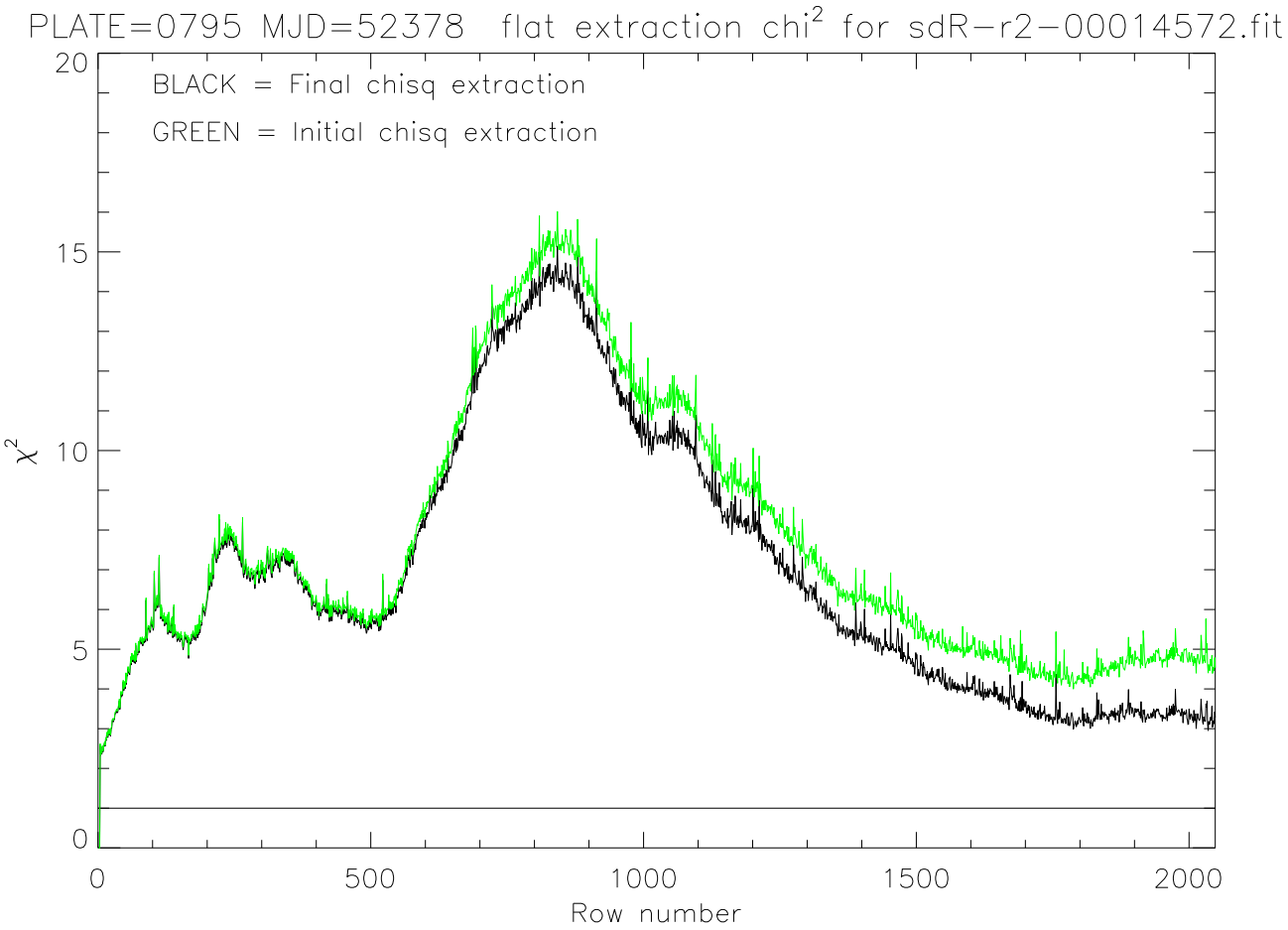

scale coeff residuals from ord=3 poly
6×10⁻⁵
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
−6×10⁻⁵
0
50
100
150
200
250
300
fiber

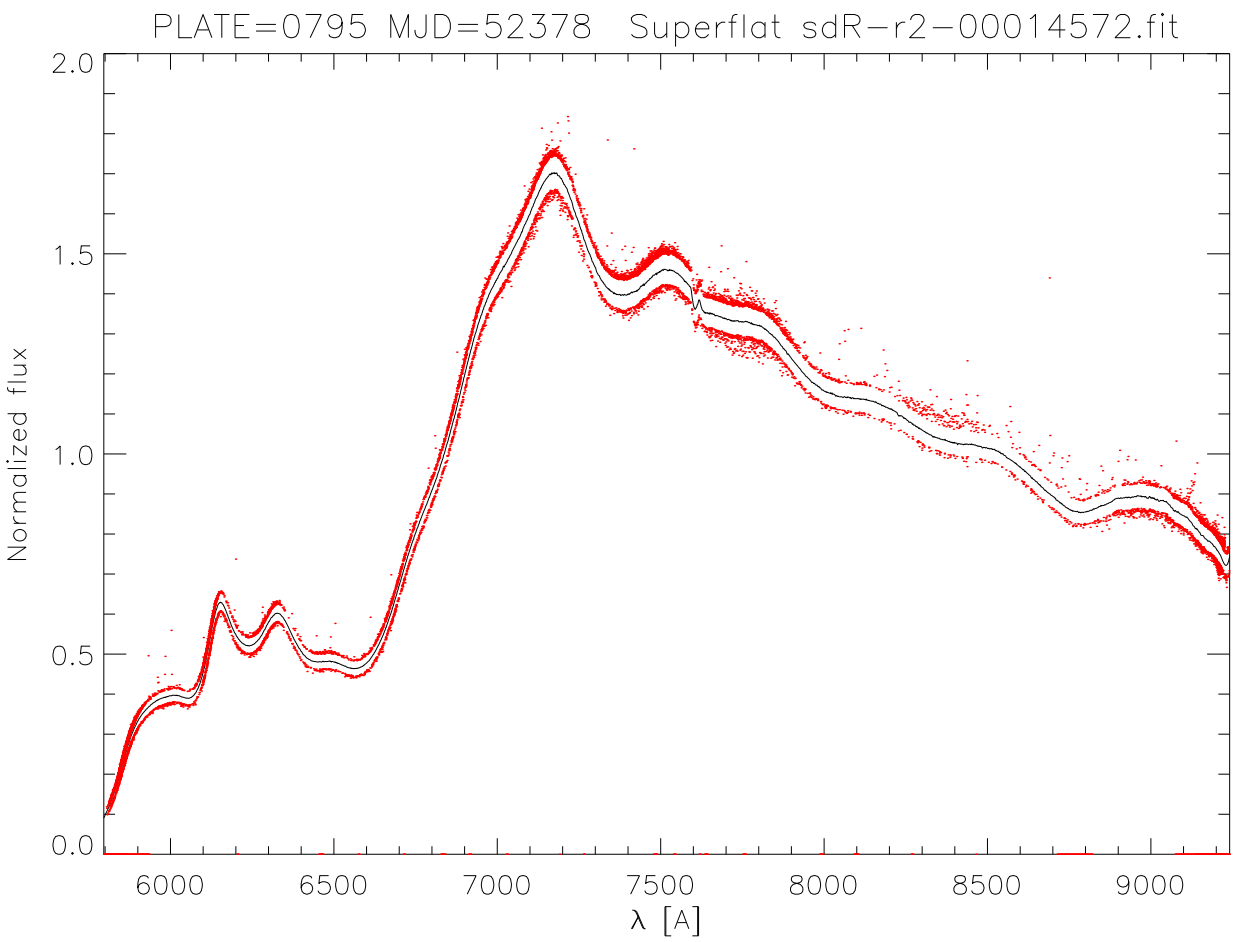

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

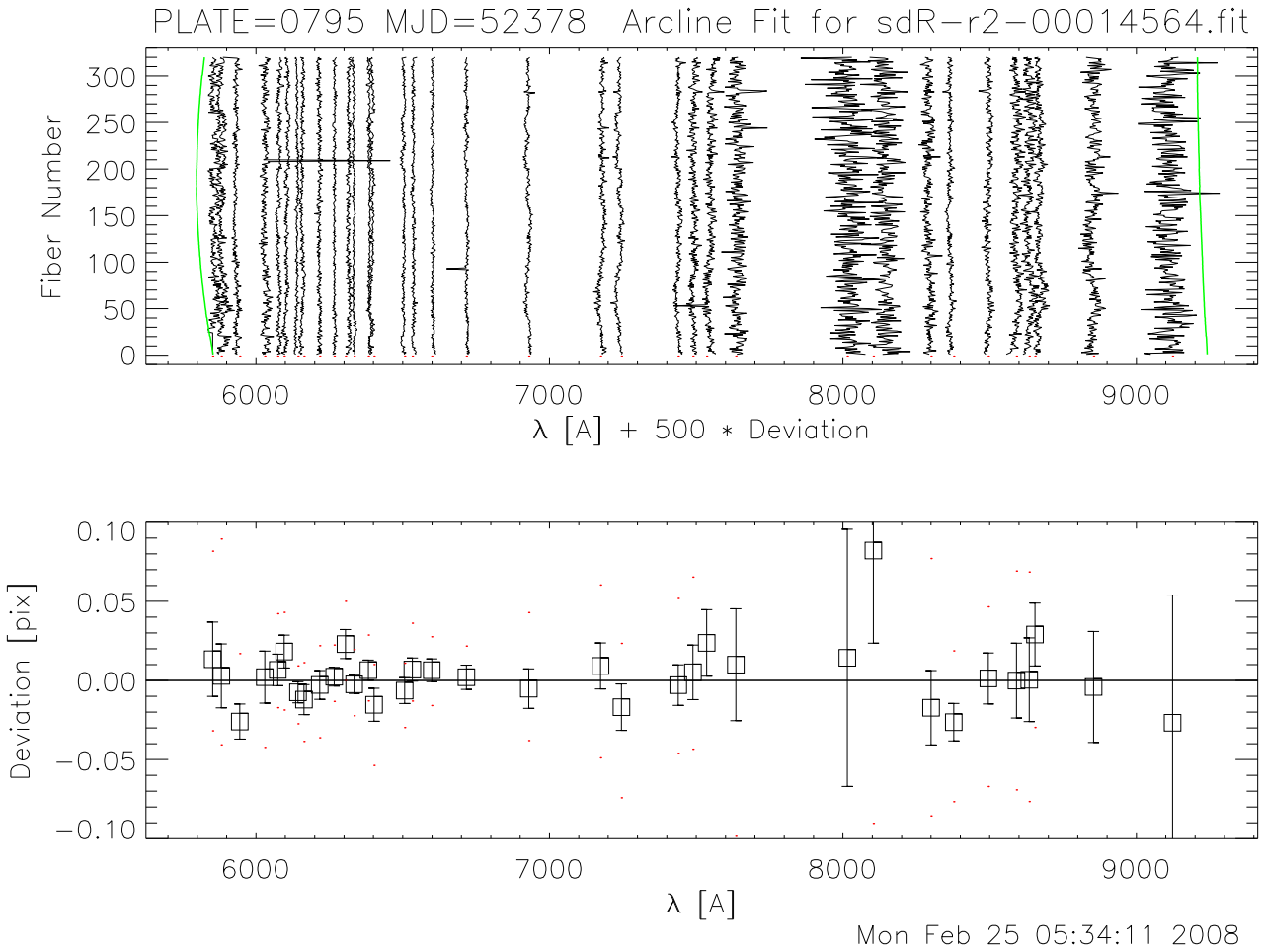

scale coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

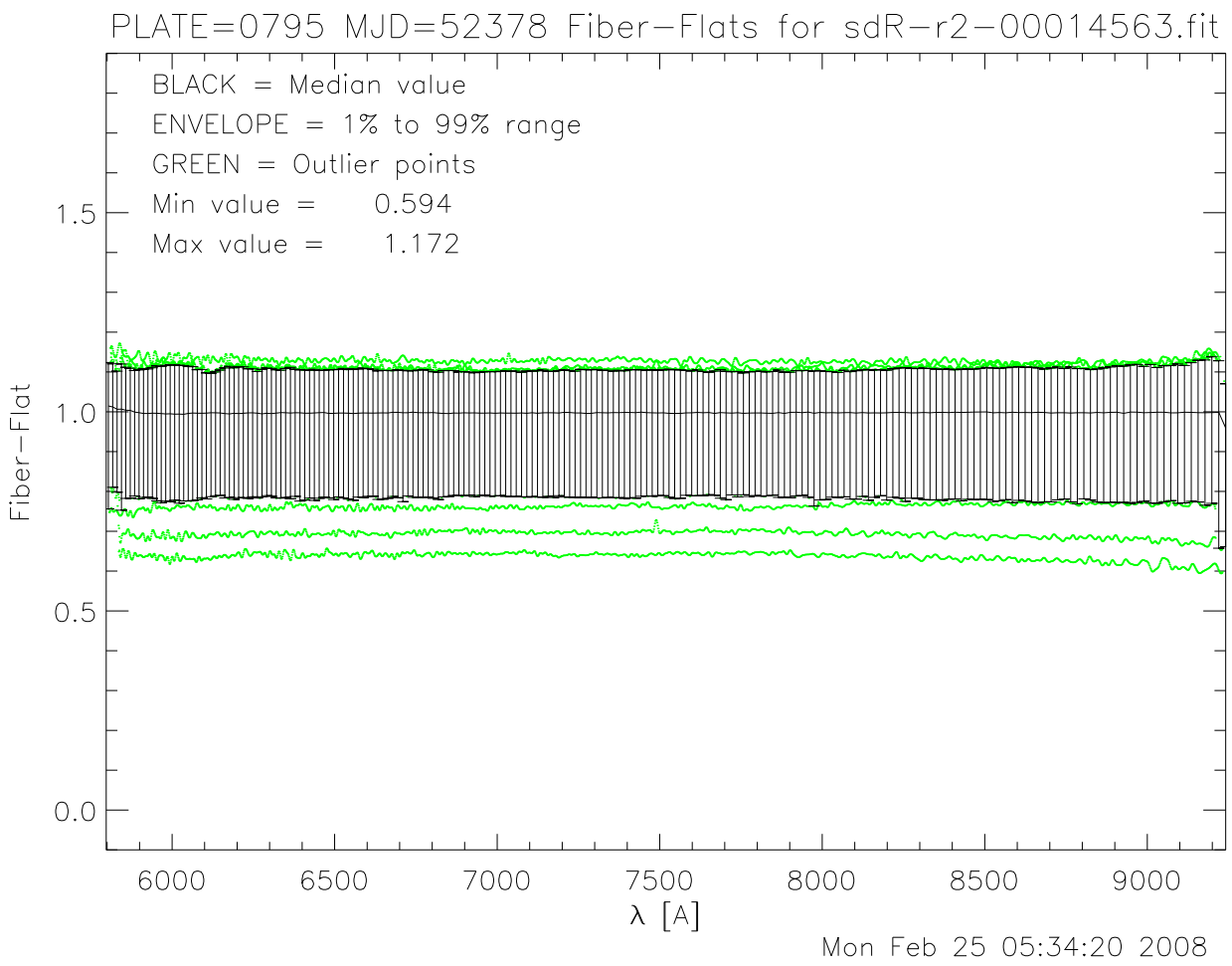

PLATE=0795 MJD=52378 flat extraction chi^2 for sdR−r2−00014563.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

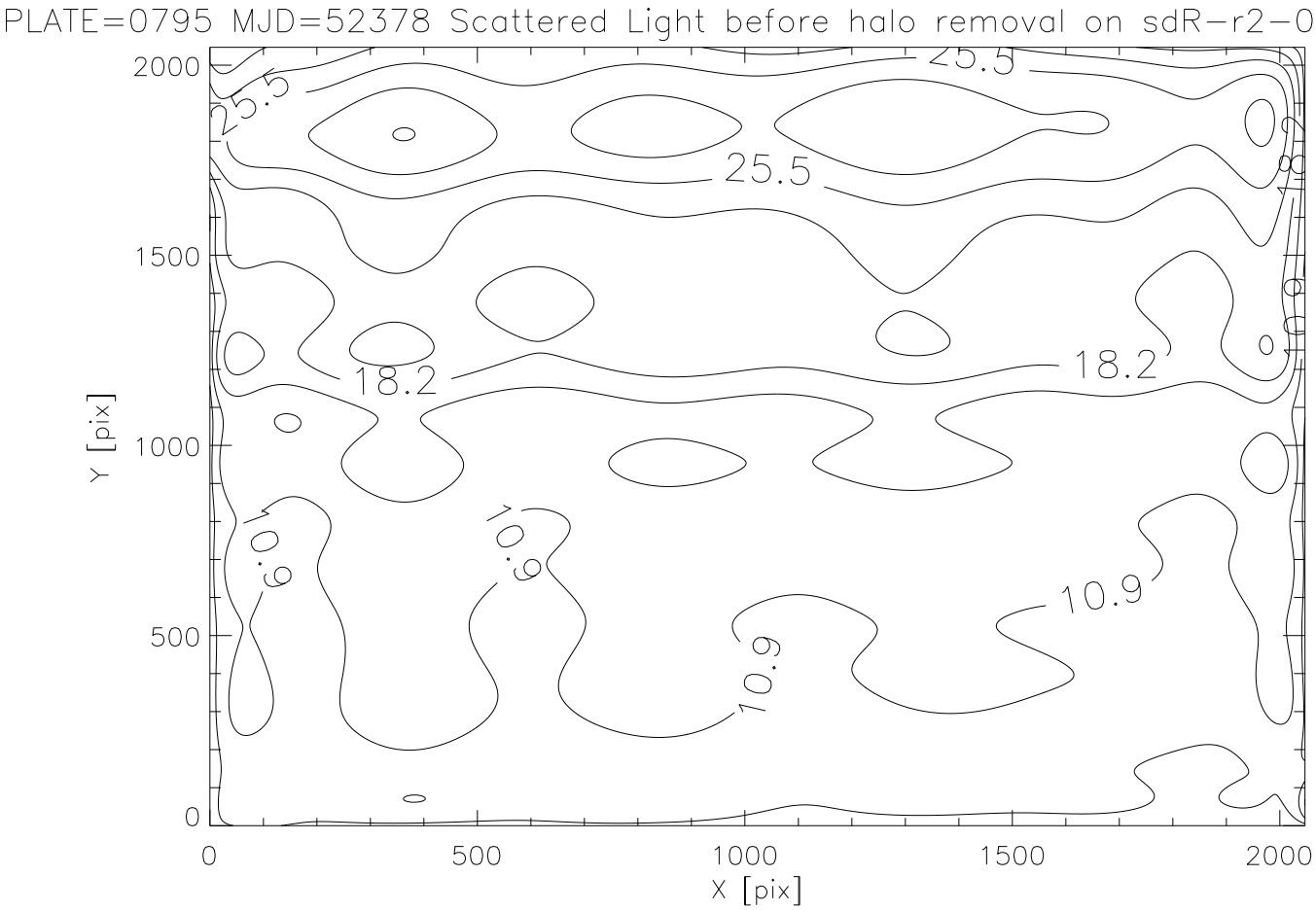

PLATE=0795 MJD=52378 Superflat sdR-r2-00014563.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

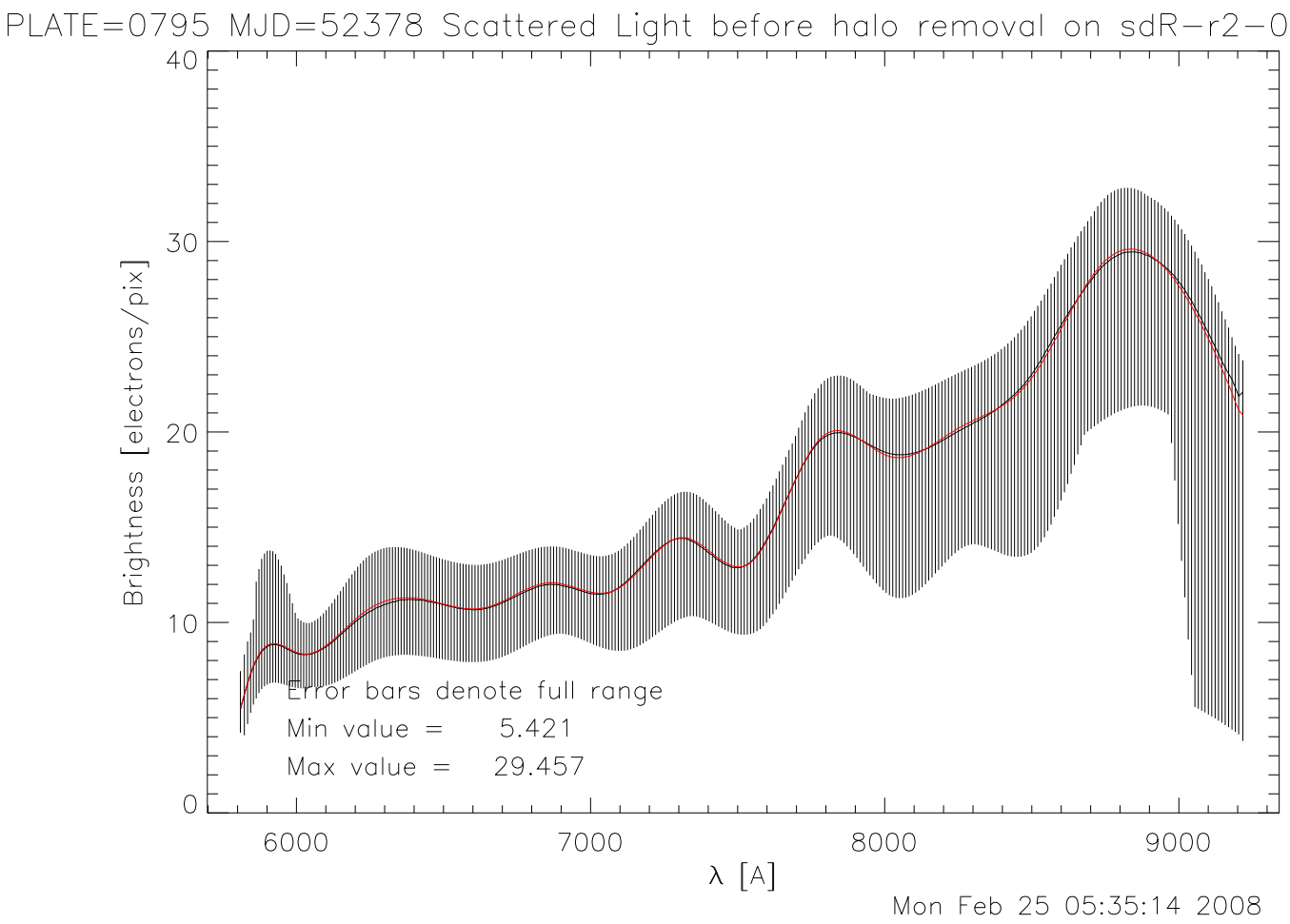

PLATE=0795 MJD=52378 flat extraction chi^2 for sdR−r2−00014572.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

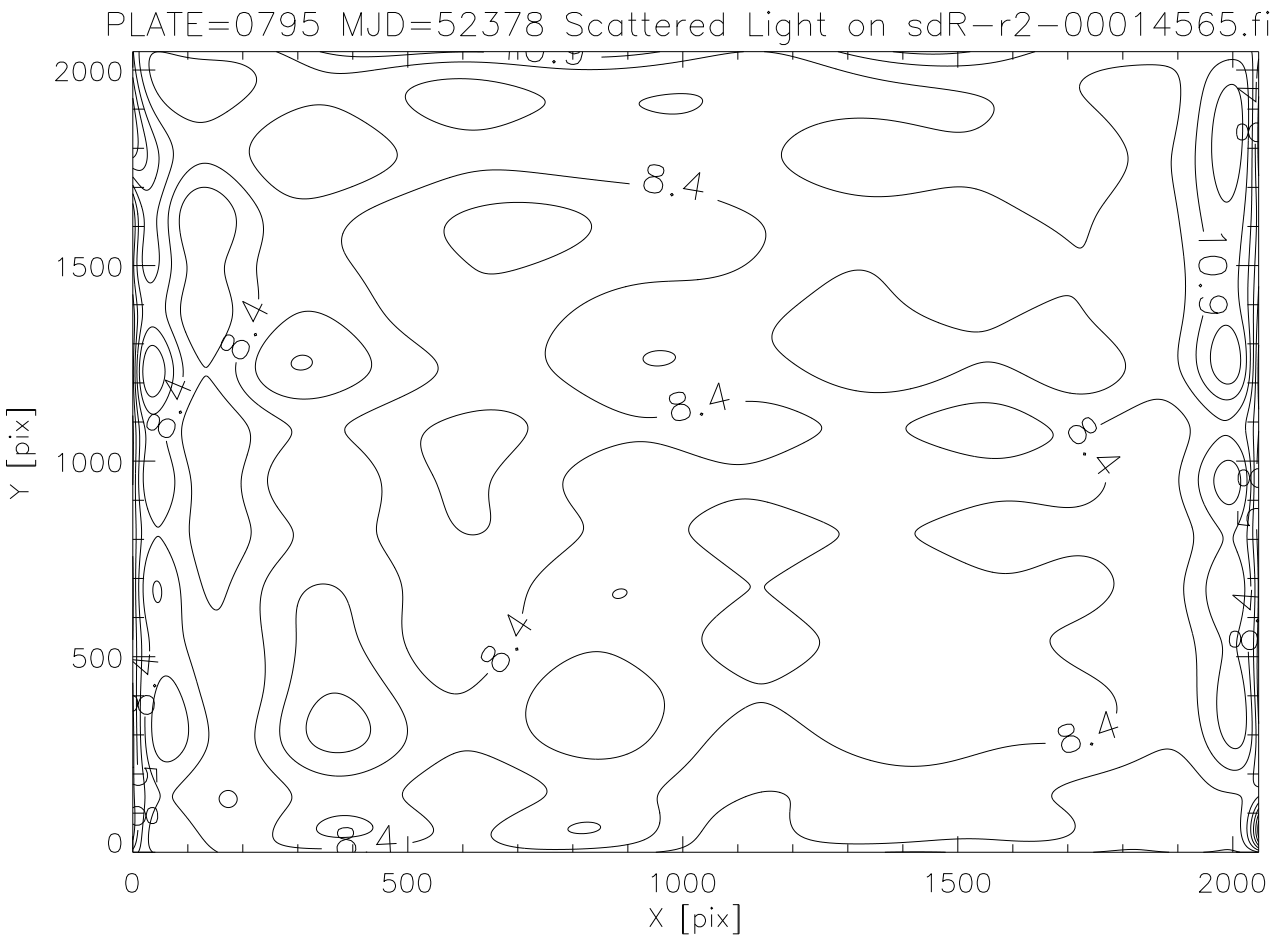

PLATE=0795 MJD=52378 Superflat sdR-r2-00014572.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

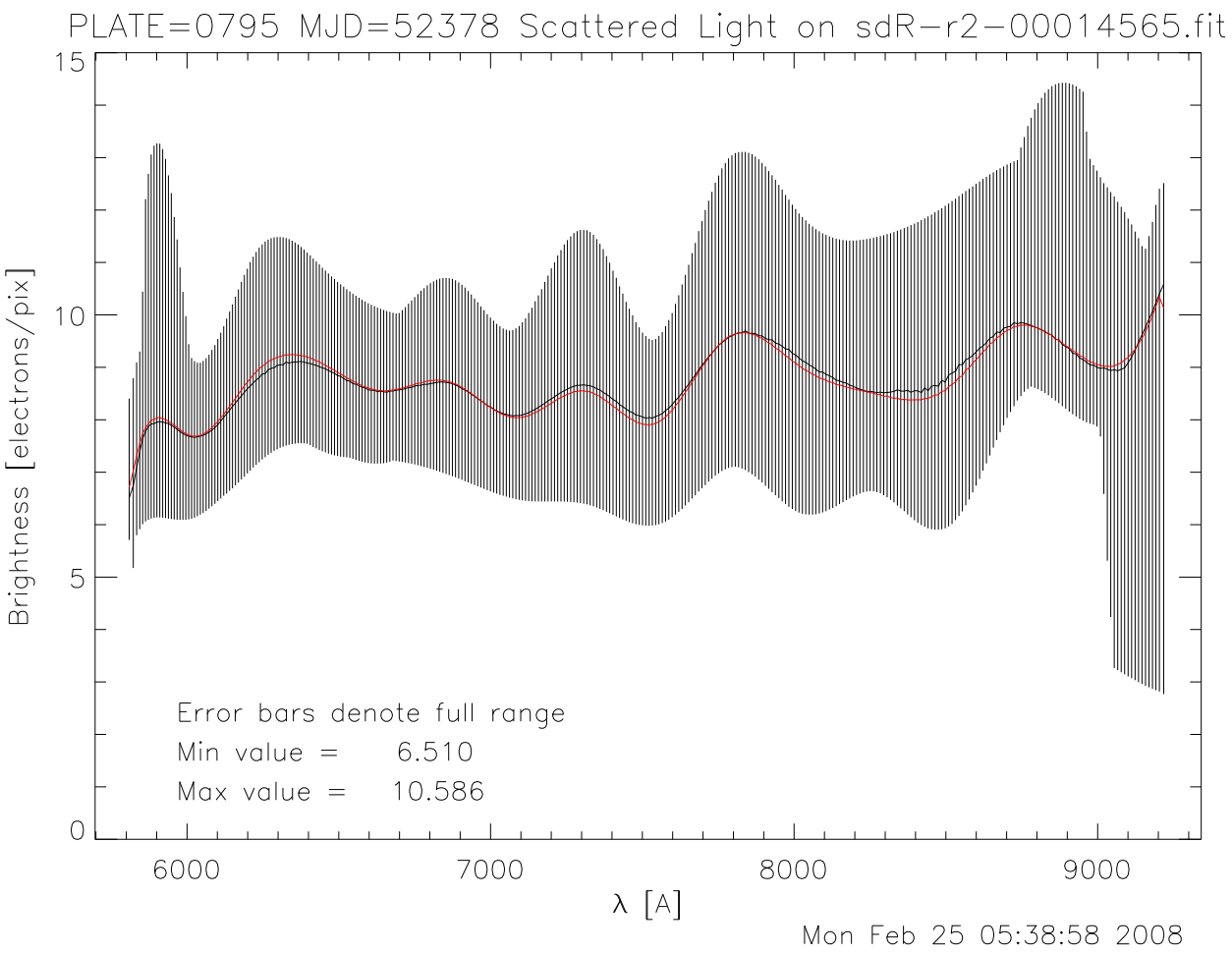

PLATE=0795 MJD=52378 Arcline Fit for sdR-r2-00014564.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 05:34:11 2008

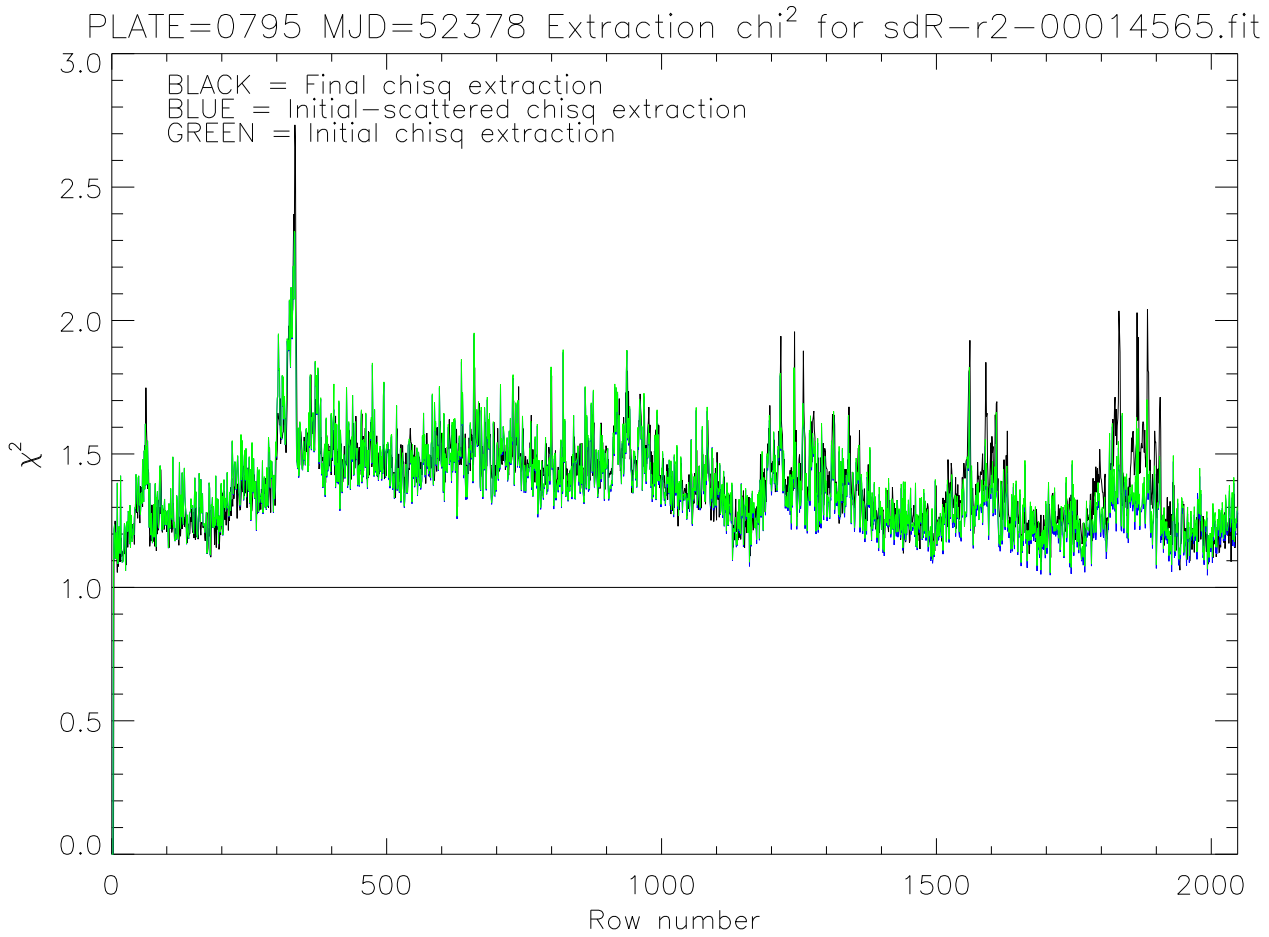

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.594
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 05:34:20 2008

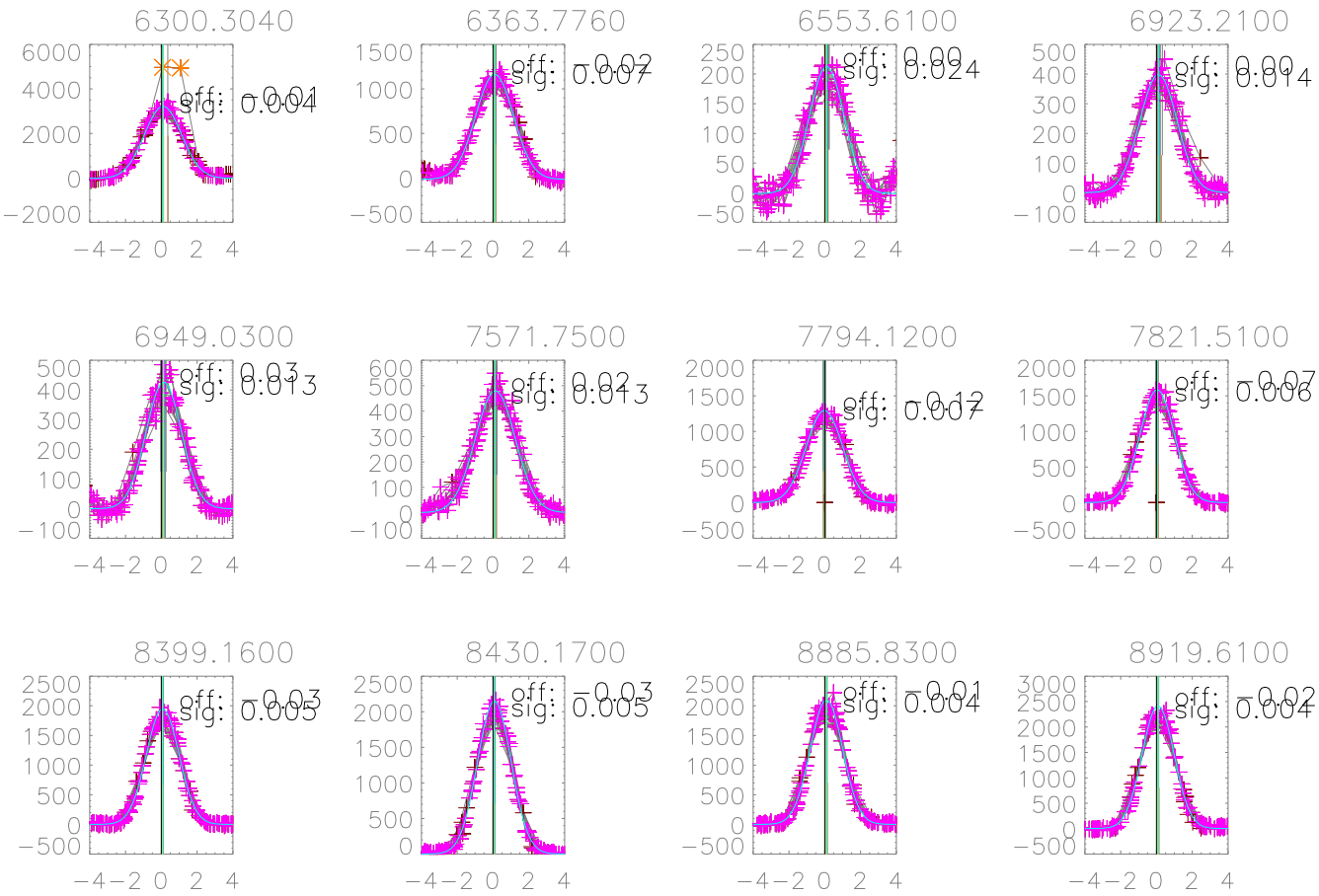

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014565.fi
25.5
18.2
10.9
0
Y [pix]
X [pix]
0
500
1000
1500
2000

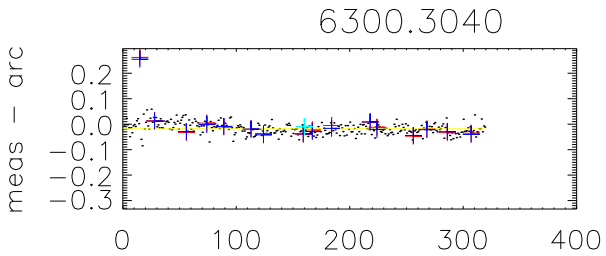

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014565.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.421
Max value = 29.457
Mon Feb 25 05:35:14 2008

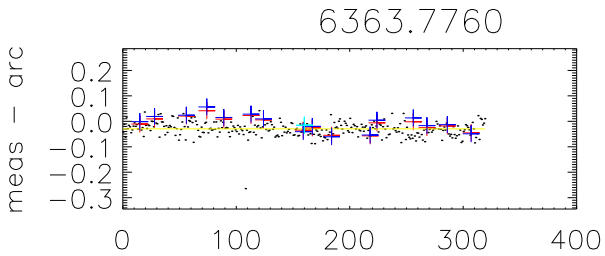

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014565.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.4
10.9

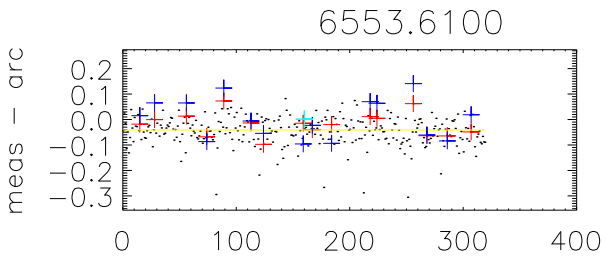

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014565.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.510
Max value = 10.586
Mon Feb 25 05:38:58 2008

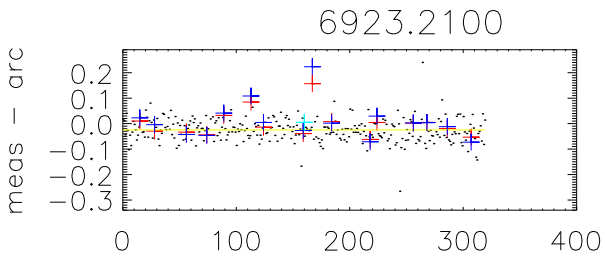

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r2−00014565.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

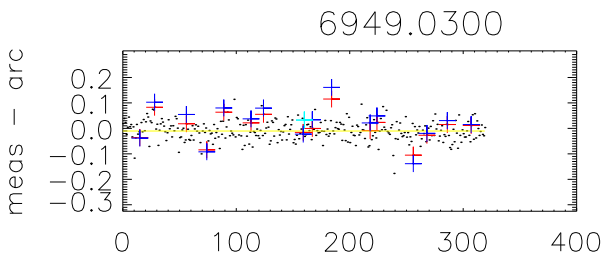

6300.3040
off: −0.01
sig: 0.004
6363.7760
off: −0.02
sig: 0.007
6553.6100
off: 0.00
sig: 0.024
6923.2100
off: 0.00
sig: 0.014
6949.0300
off: 0.03
sig: 0.013
7571.7500
off: 0.02
sig: 0.013
7794.1200
off: −0.12
sig: 0.007
7821.5100
off: −0.07
sig: 0.006
8399.1600
off: −0.03
sig: 0.005
8430.1700
off: −0.03
sig: 0.005
8885.8300
off: −0.01
sig: 0.004
8919.6100
off: −0.02
sig: 0.004

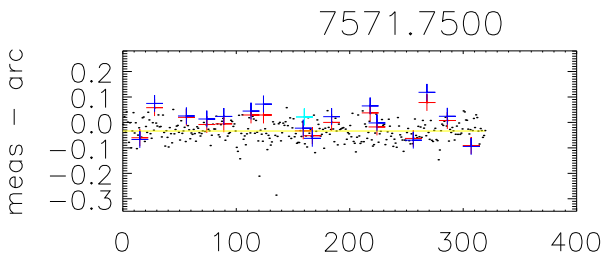

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

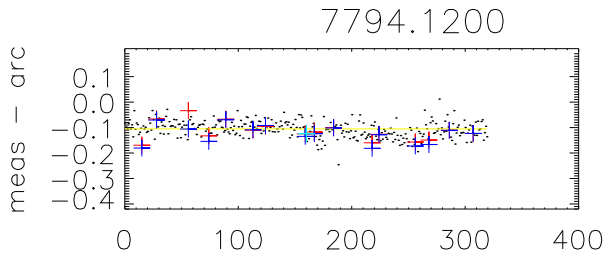

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

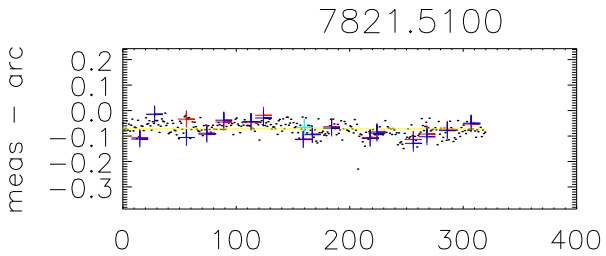

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

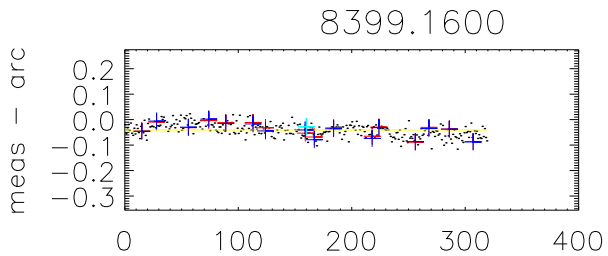

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

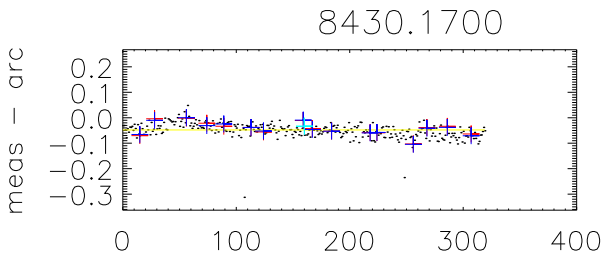

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

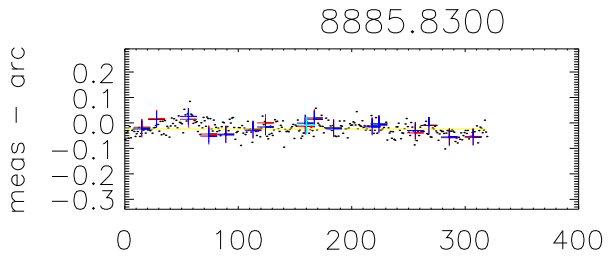

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

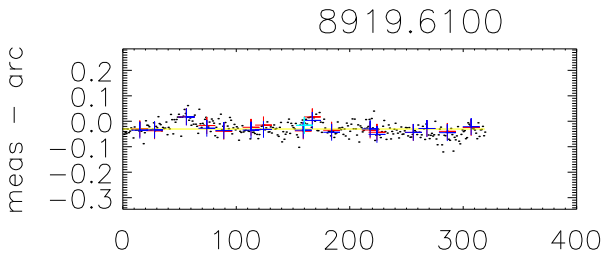

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

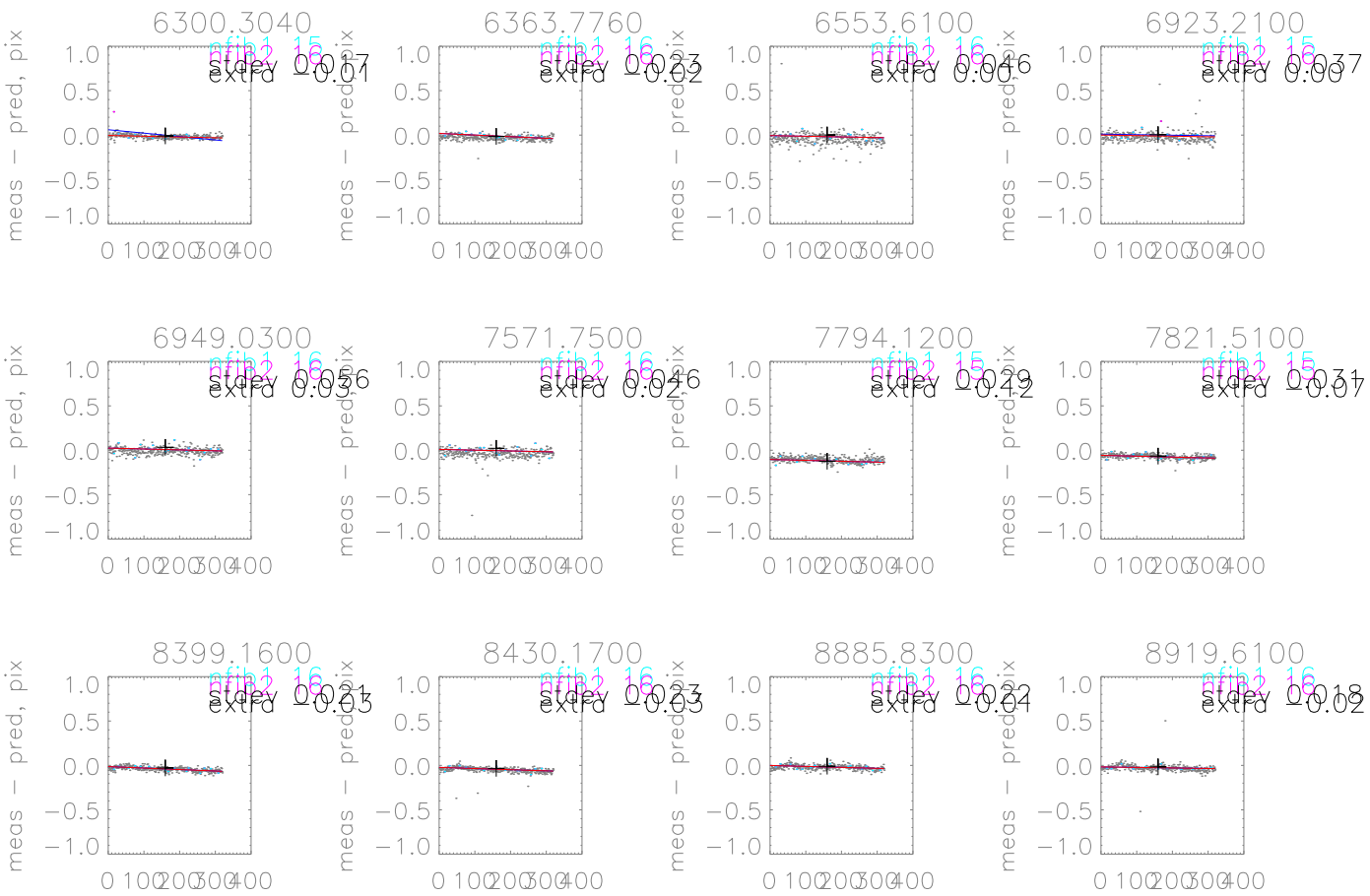

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

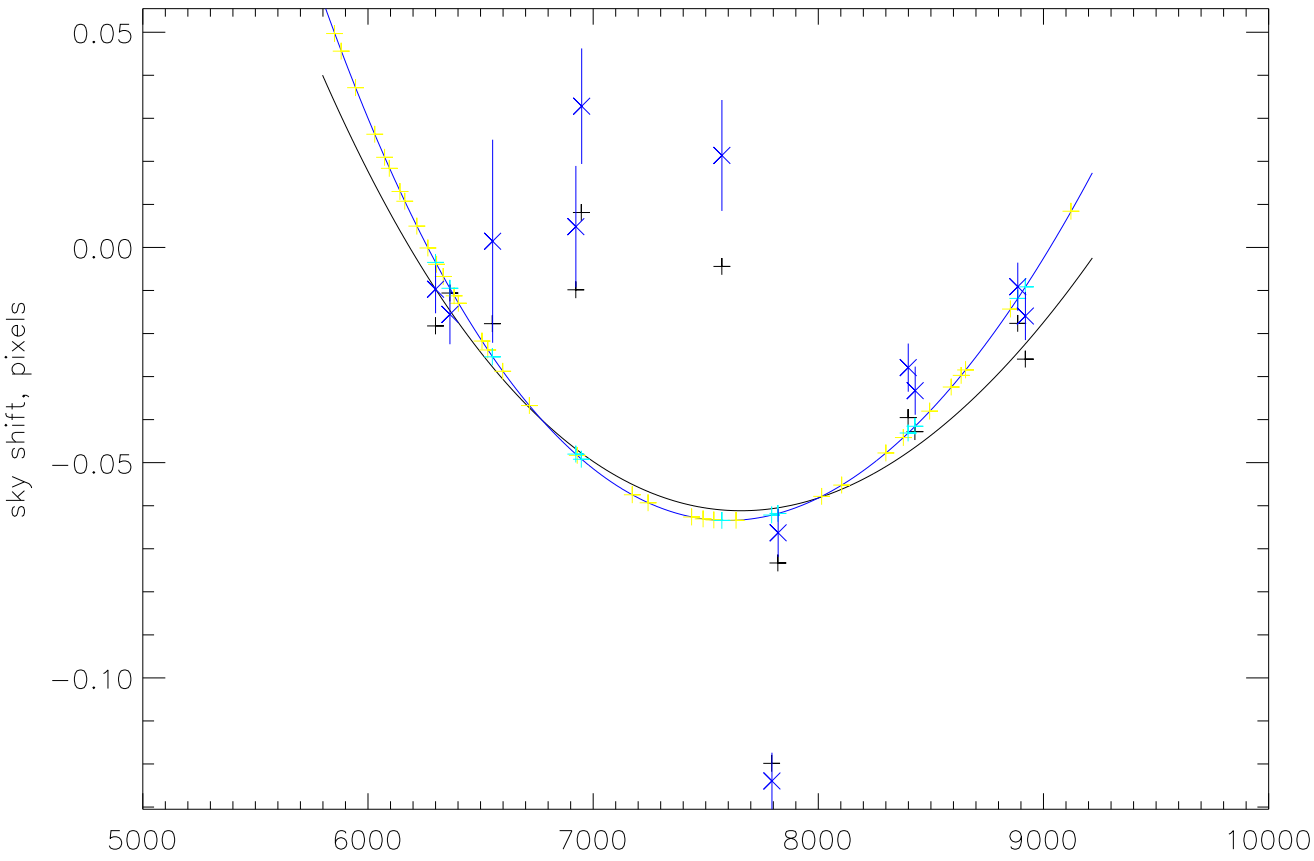

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

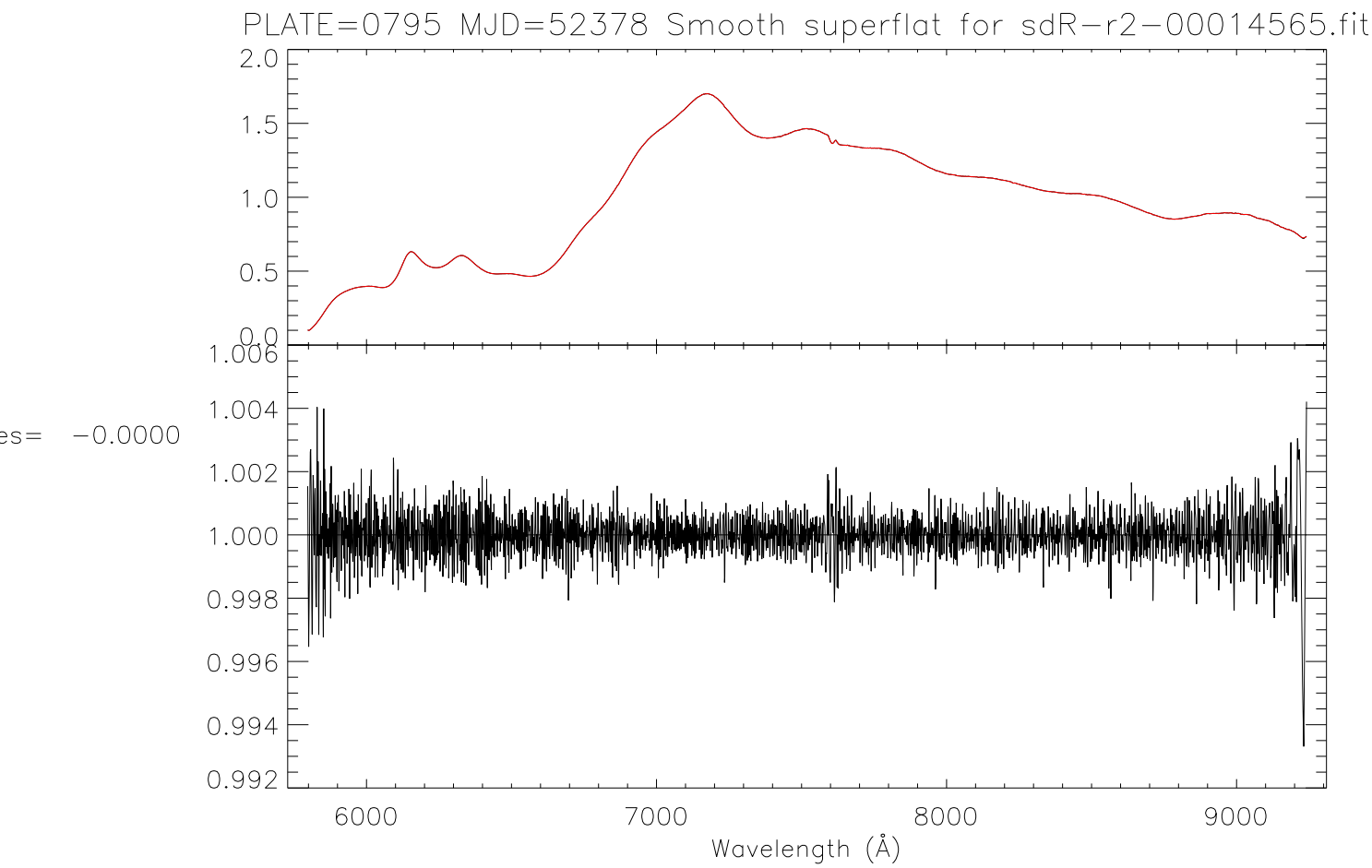

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

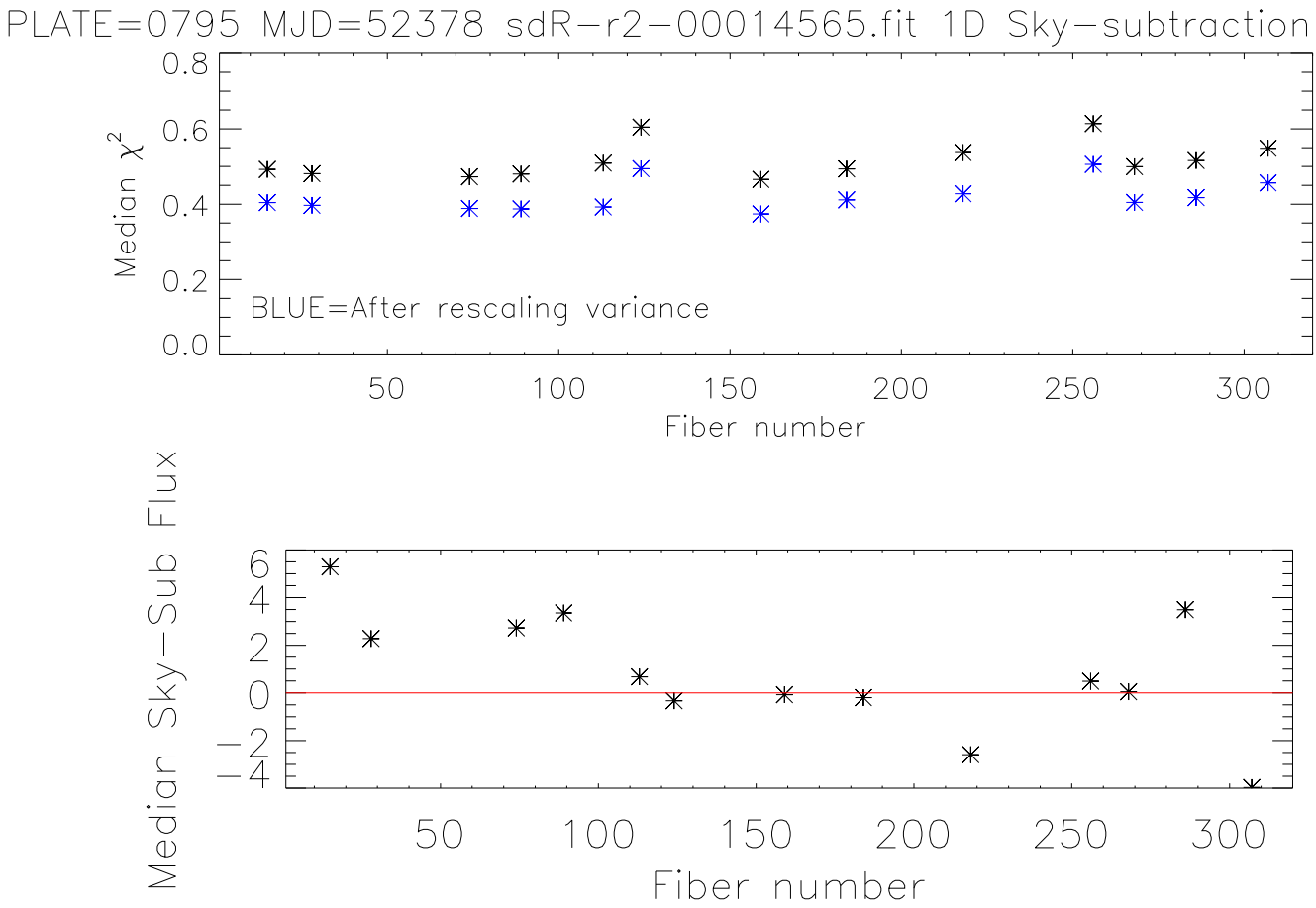

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


6300.3040
stdev 0.017
extra −0.01
6363.7760
stdev 0.023
extra −0.02
6553.6100
stdev 0.046
extra 0.00
6923.2100
stdev 0.037
extra 0.00
6949.0300
stdev 0.056
extra 0.03
7571.7500
stdev 0.046
extra 0.02
7794.1200
stdev 0.029
extra −0.42
7821.5100
stdev 0.031
extra −0.07
8399.1600
stdev 0.021
extra −0.03
8430.1700
stdev 0.023
extra −0.03
8885.8300
stdev 0.022
extra −0.04
8919.6100
stdev 0.018
extra −0.02
meas − pred, pix
mfib2 15
mfib1 16

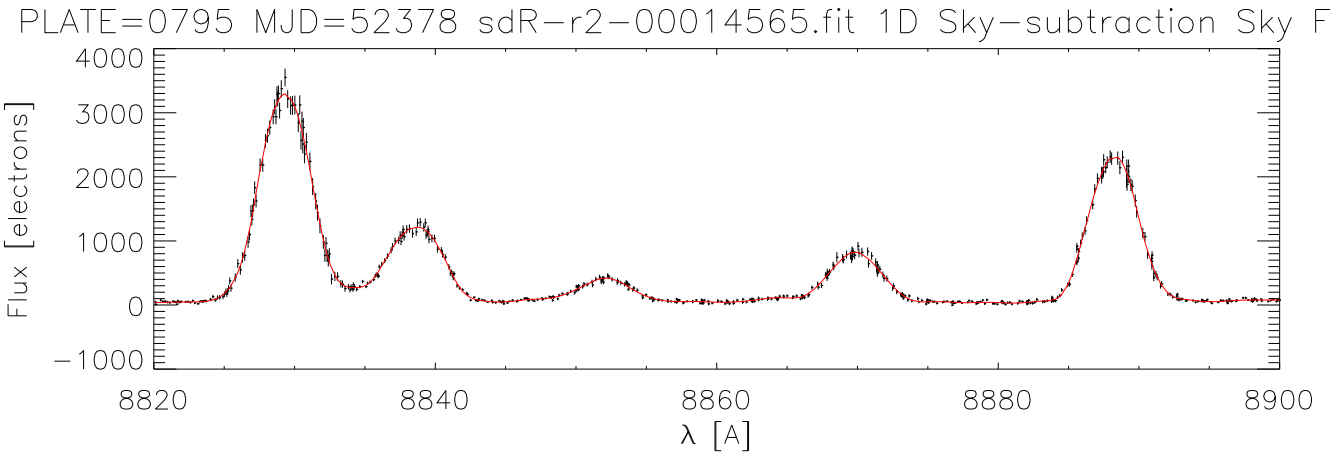

0.05
0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

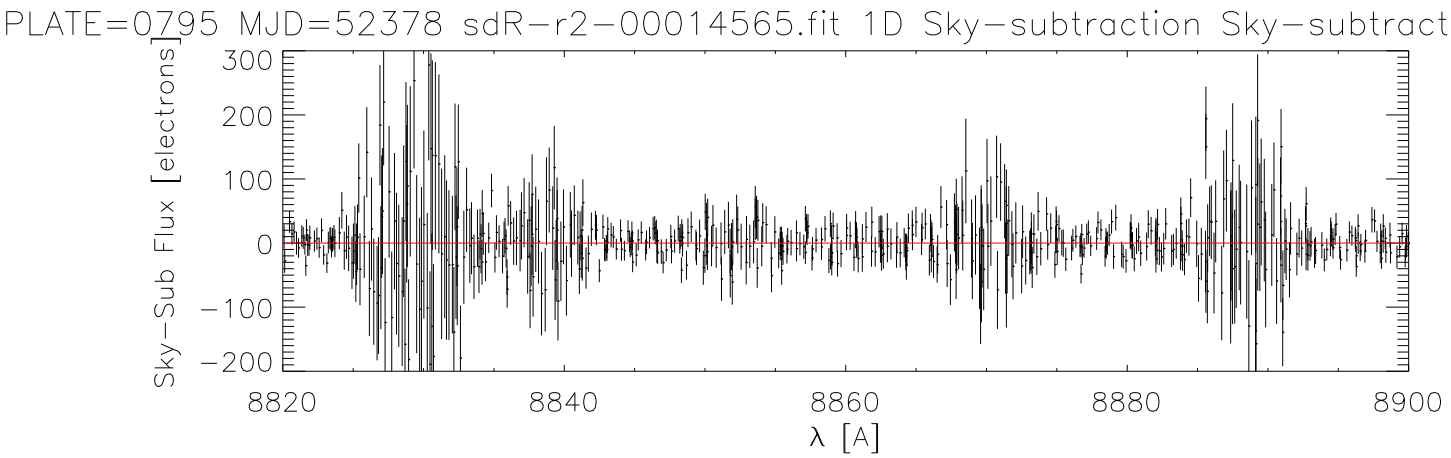

PLATE=0795 MJD=52378 Smooth superflat for sdR-r2-00014565.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

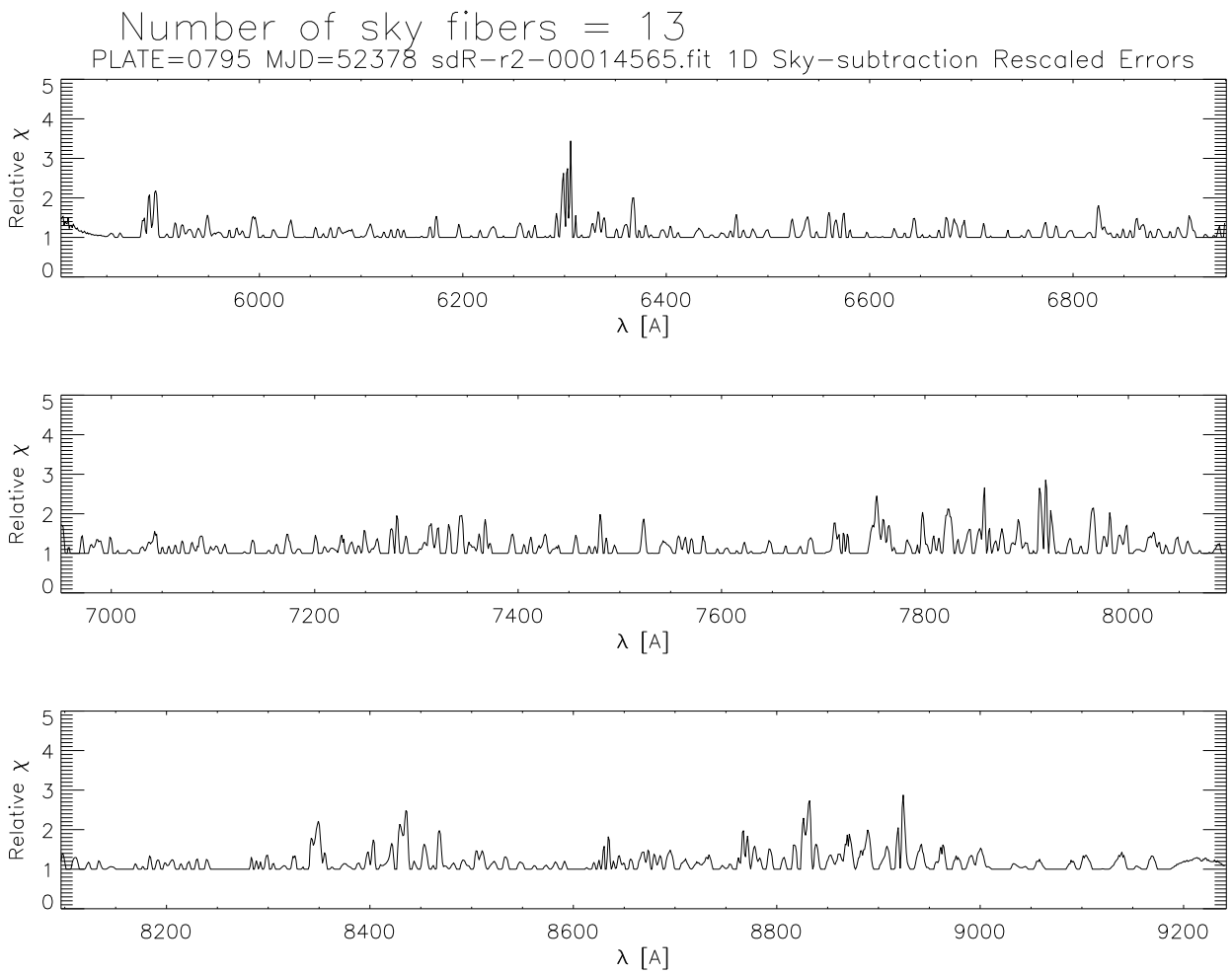
es= −0.0000

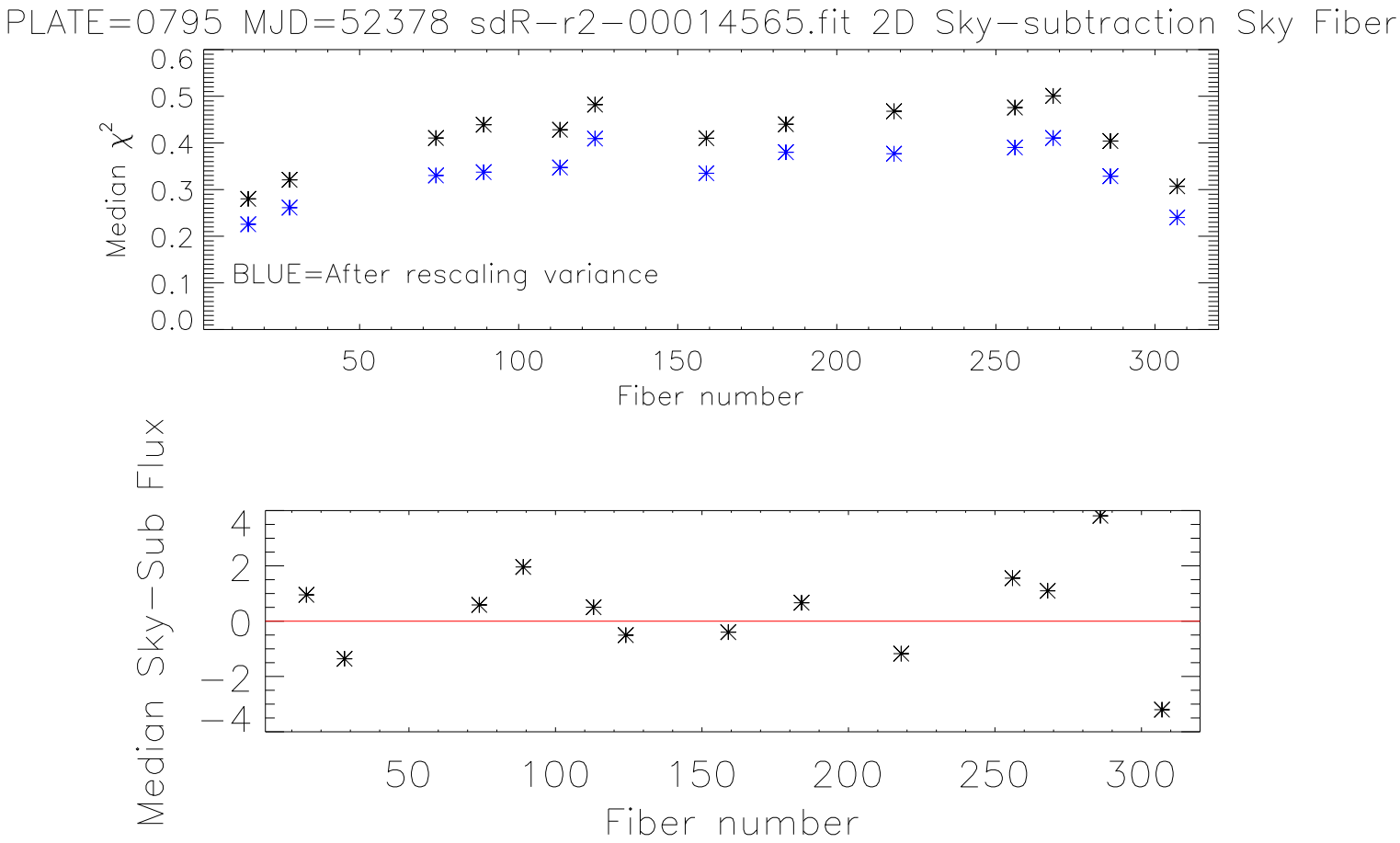

PLATE=0795 MJD=52378 sdR-r2-00014565.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

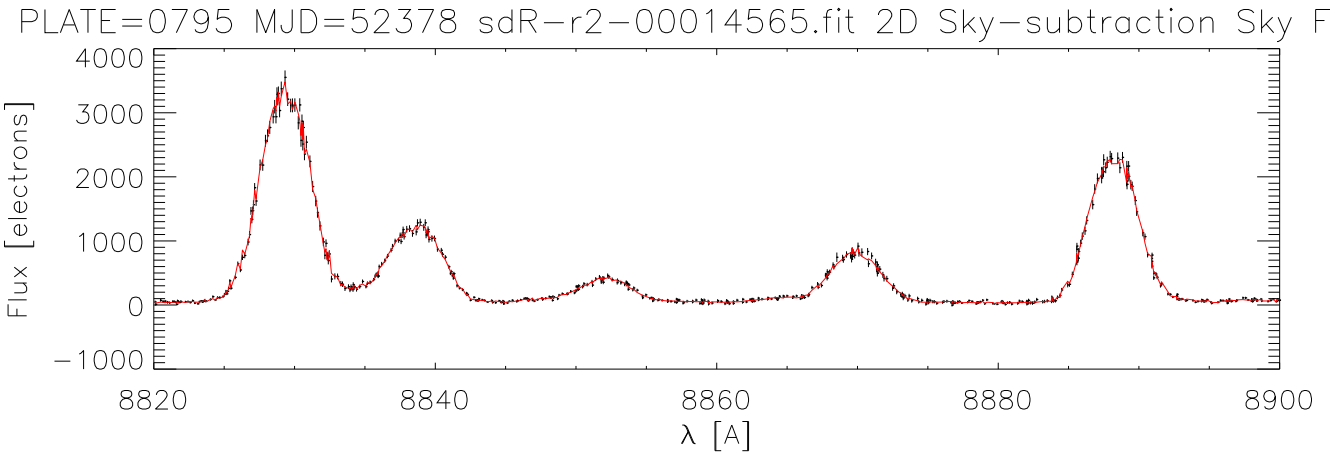
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

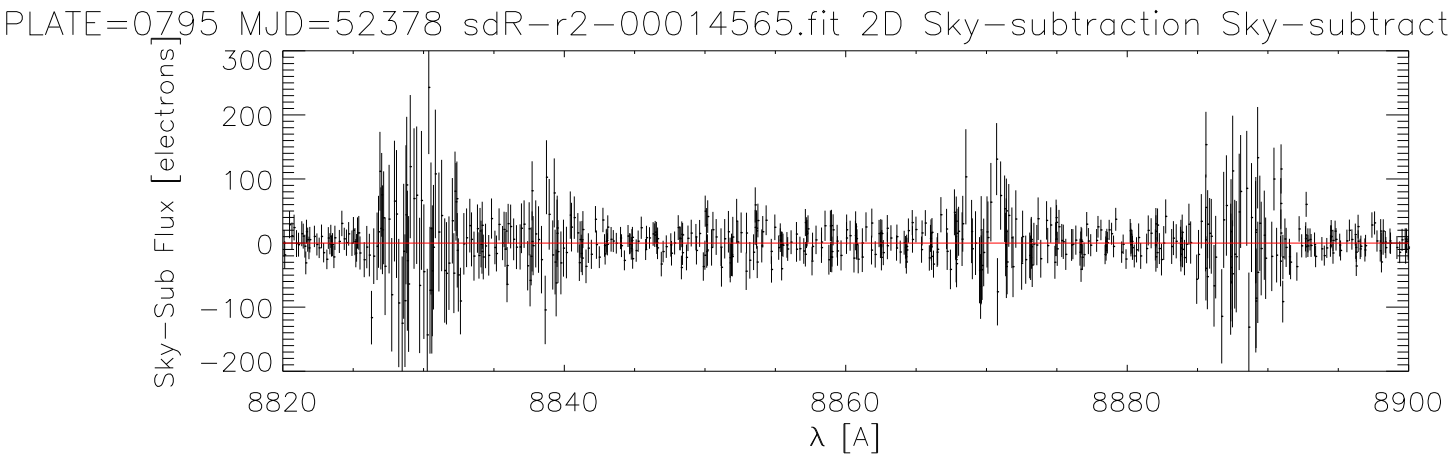

PLATE=0795 MJD=52378 sdR-r2-00014565.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

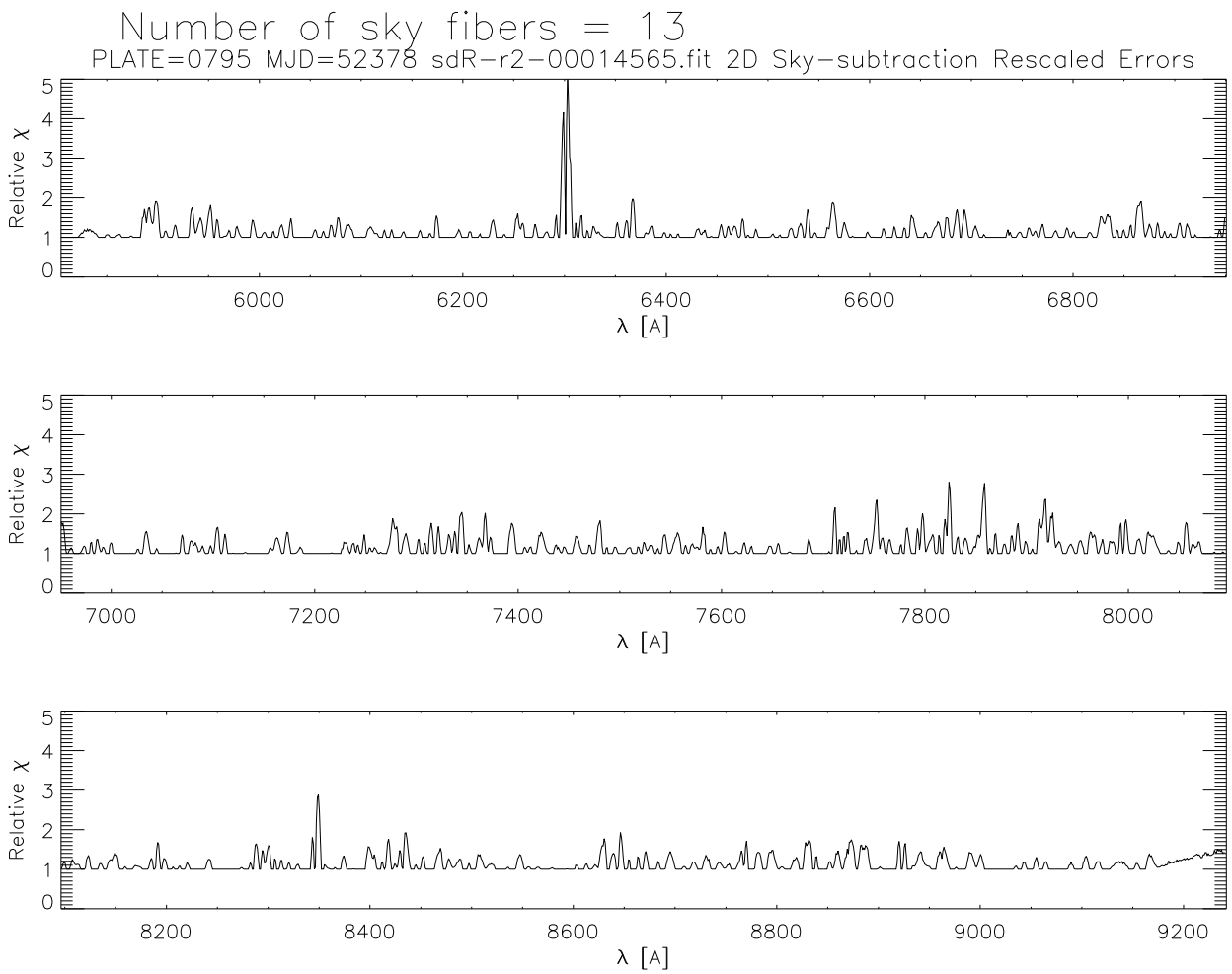

PLATE=0795 MJD=52378 sdR-r2-00014565.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

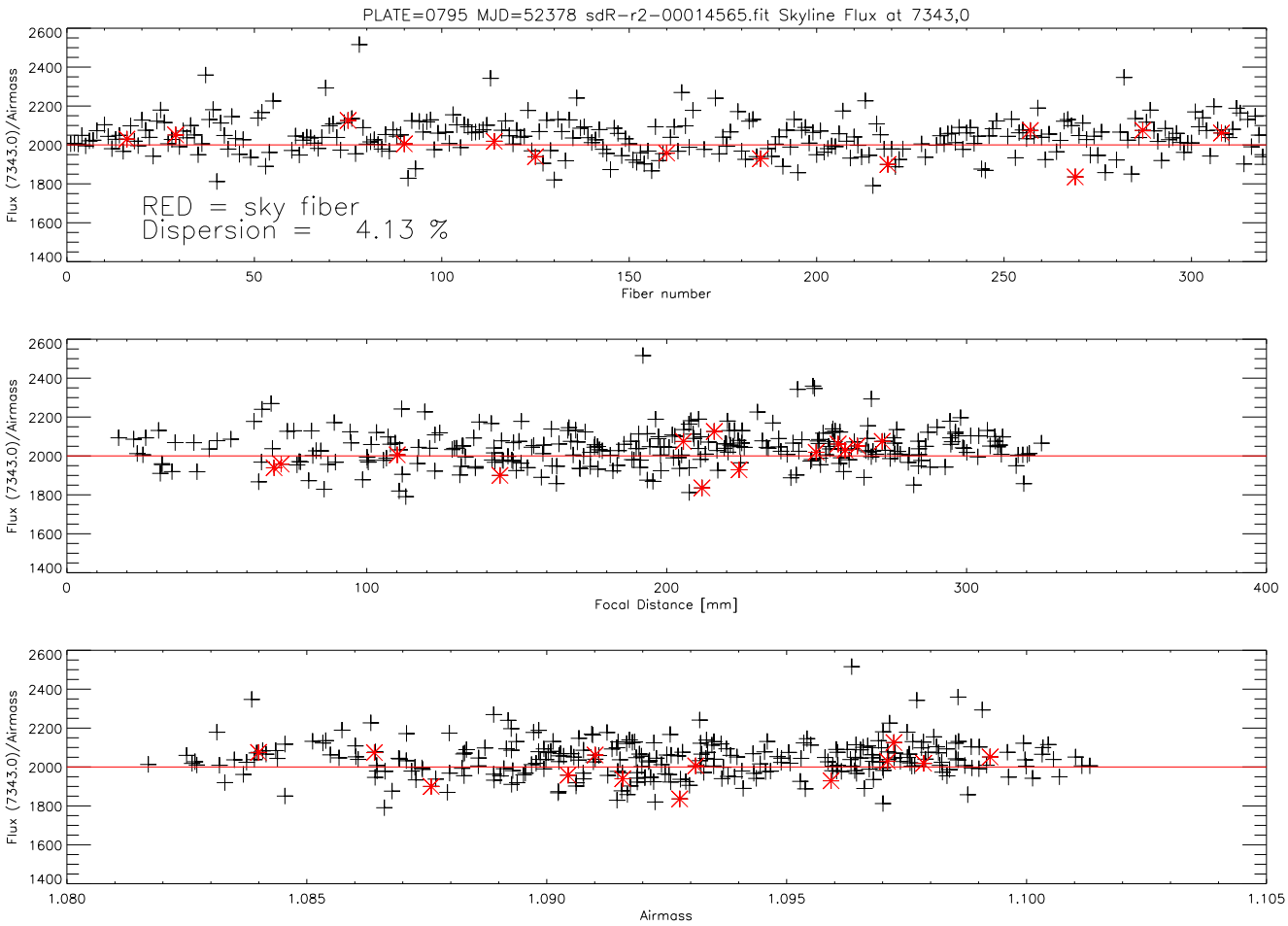

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014565.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

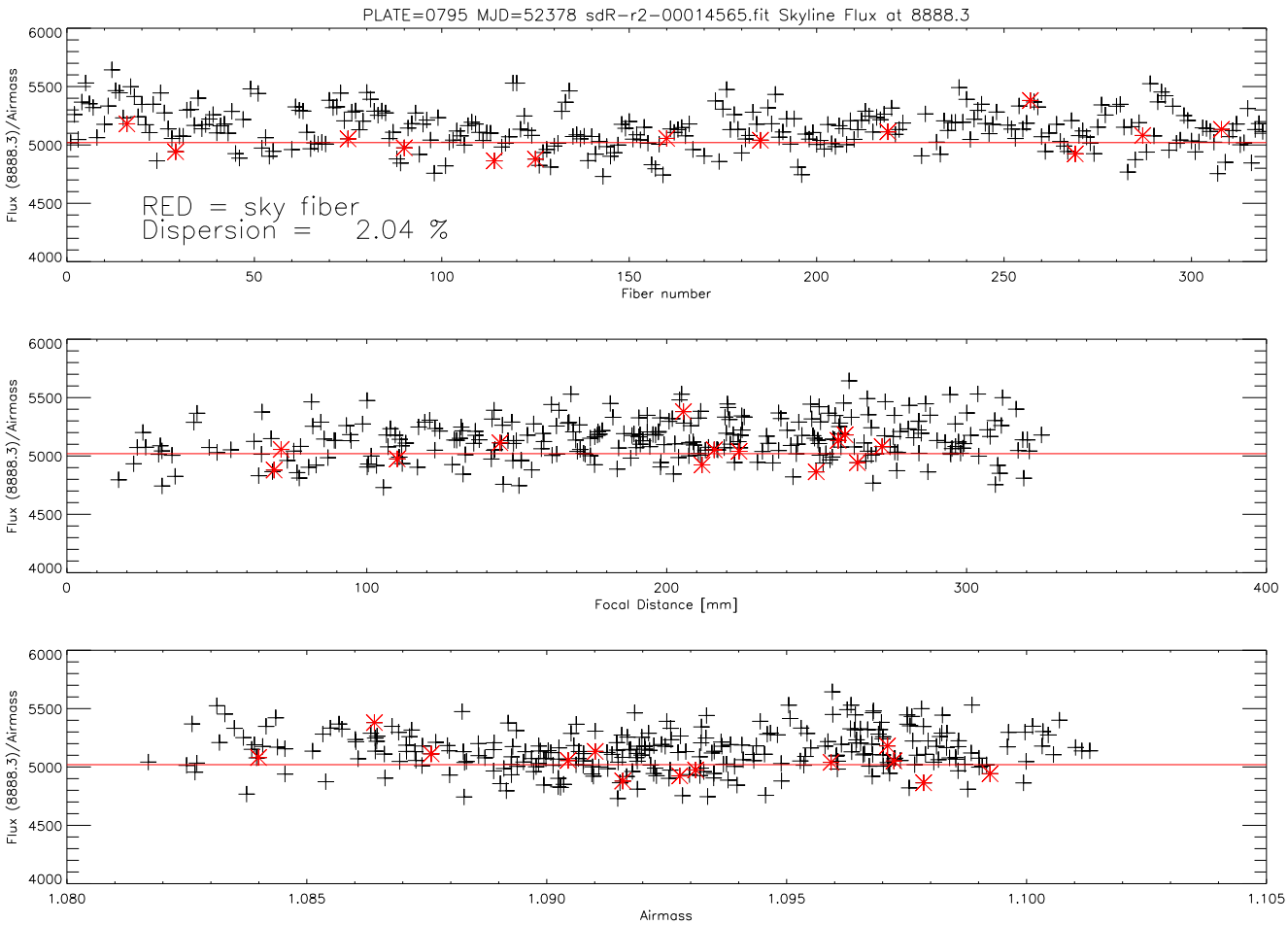

PLATE=0795 MJD=52378 sdR-r2-00014565.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

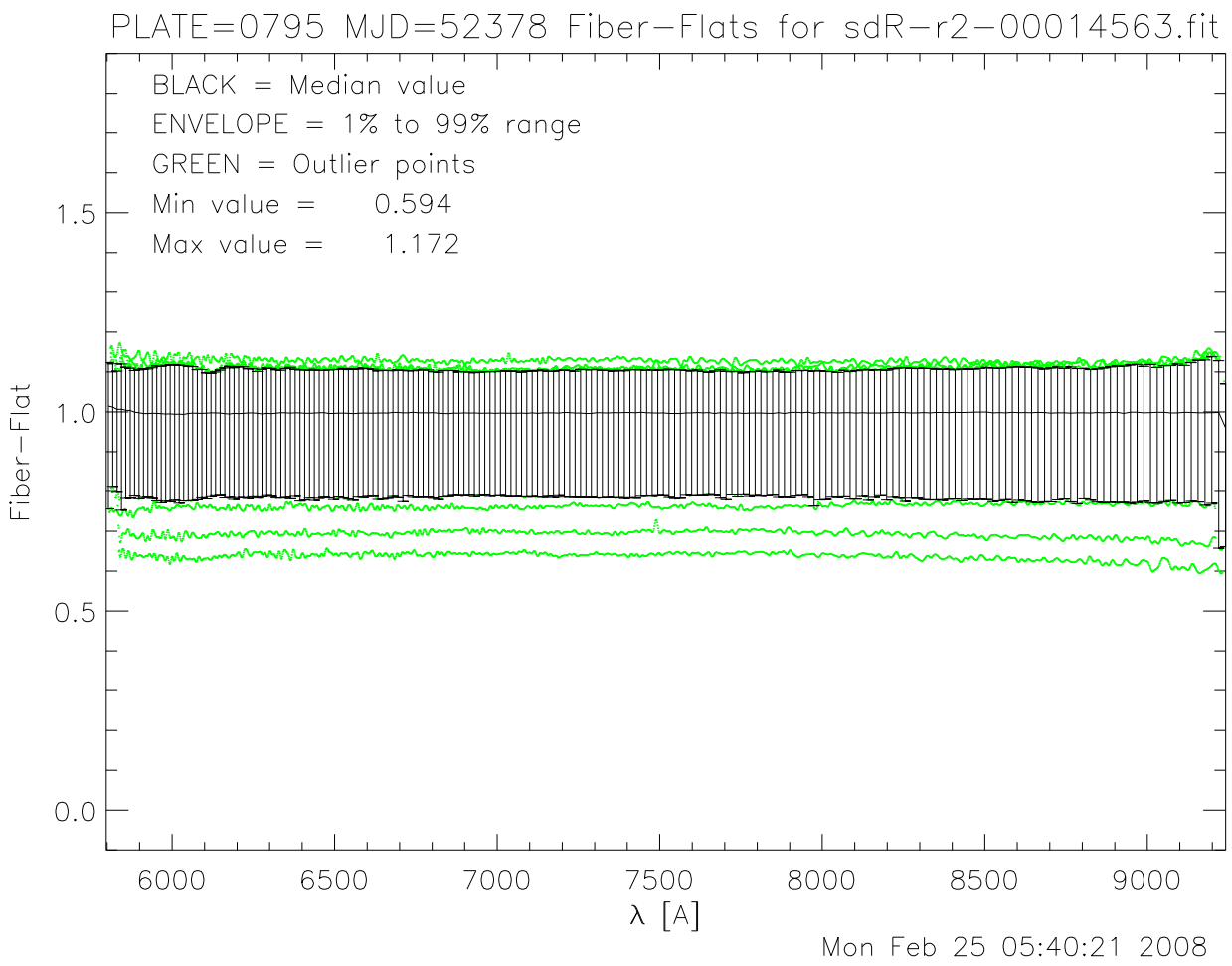

PLATE=0795 MJD=52378 sdR-r2-00014565.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

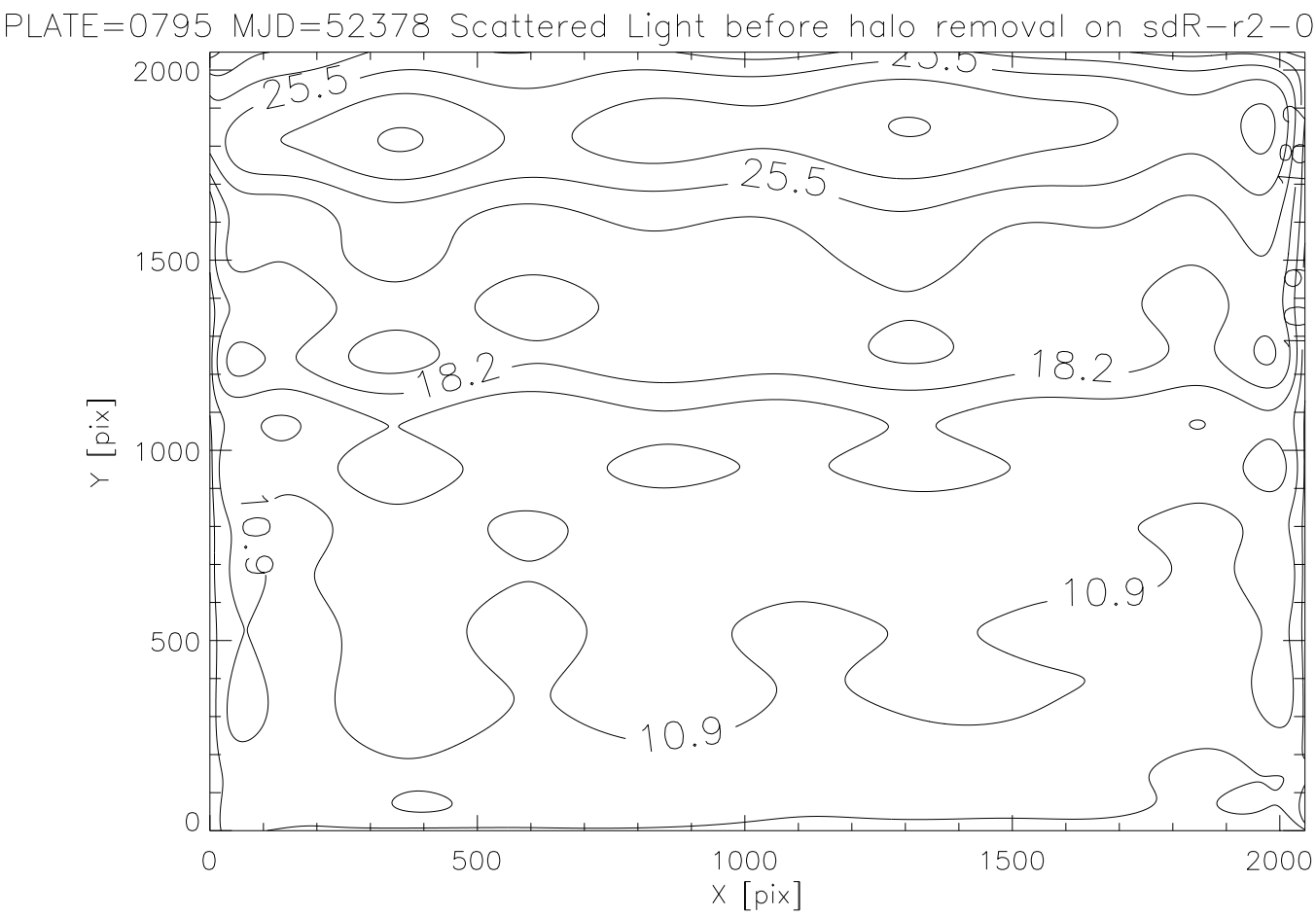

PLATE=0795 MJD=52378 sdR-r2-00014565.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

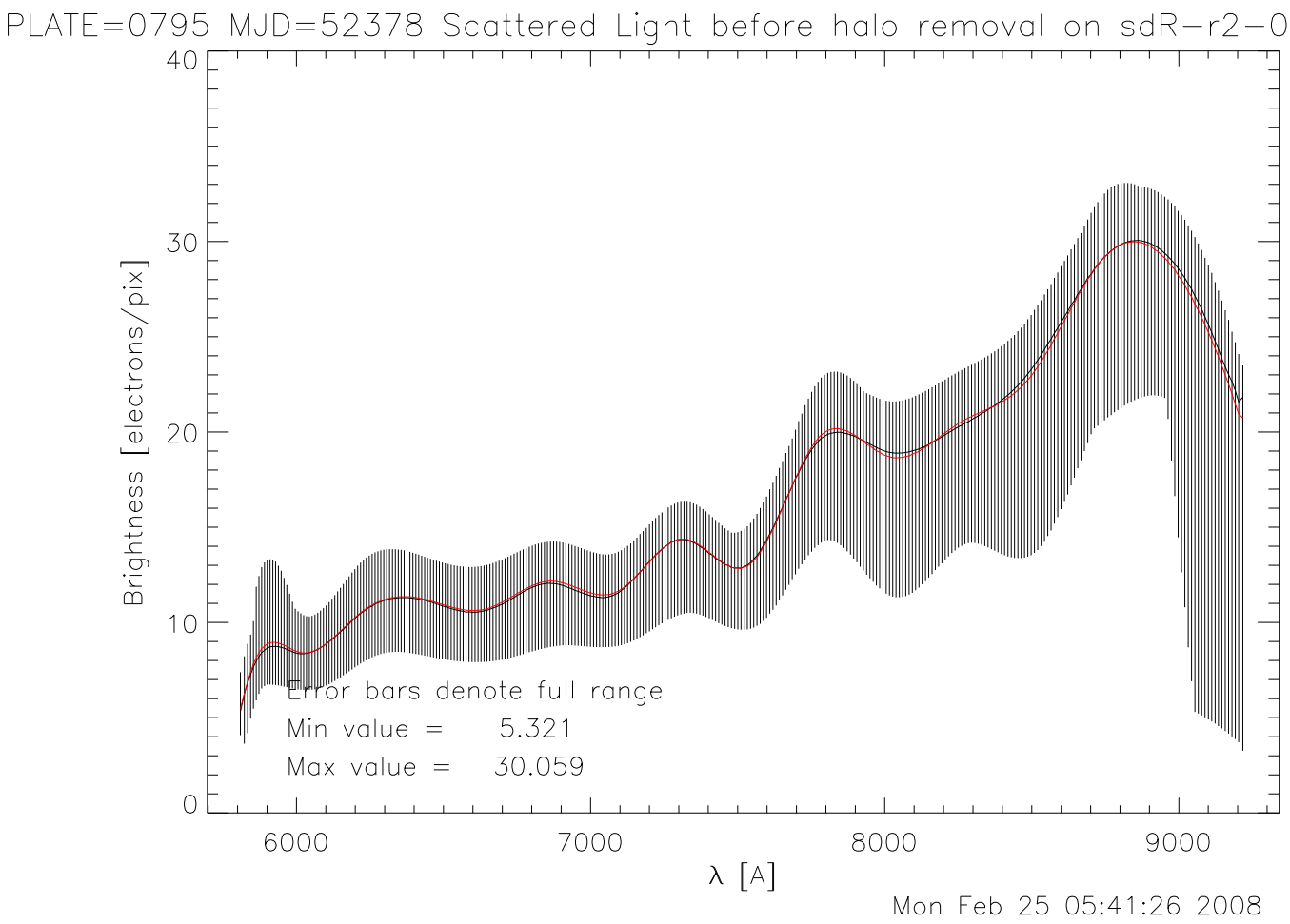

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014565.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

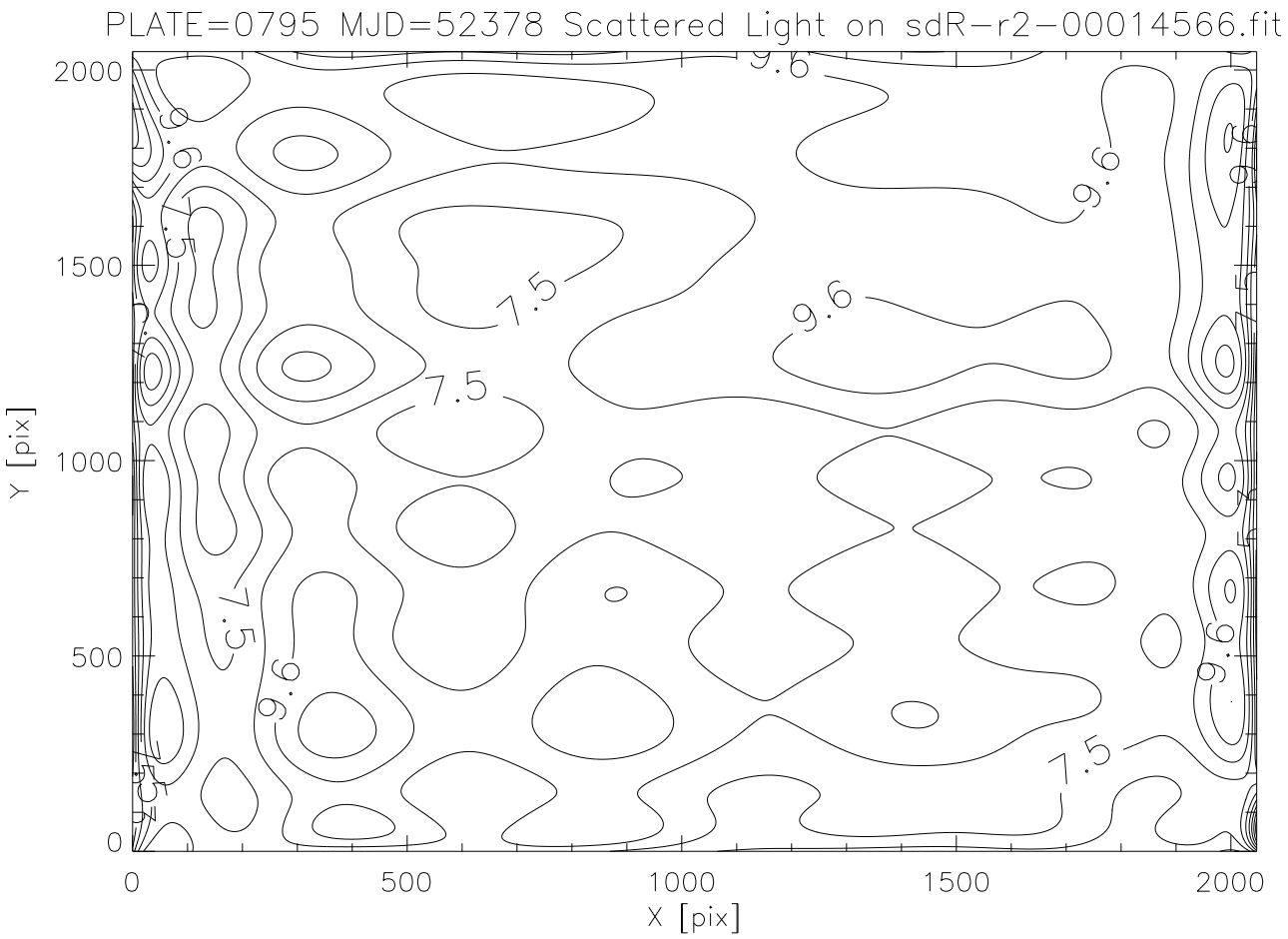

PLATE=0795 MJD=52378 sdR-r2-00014565.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.13 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

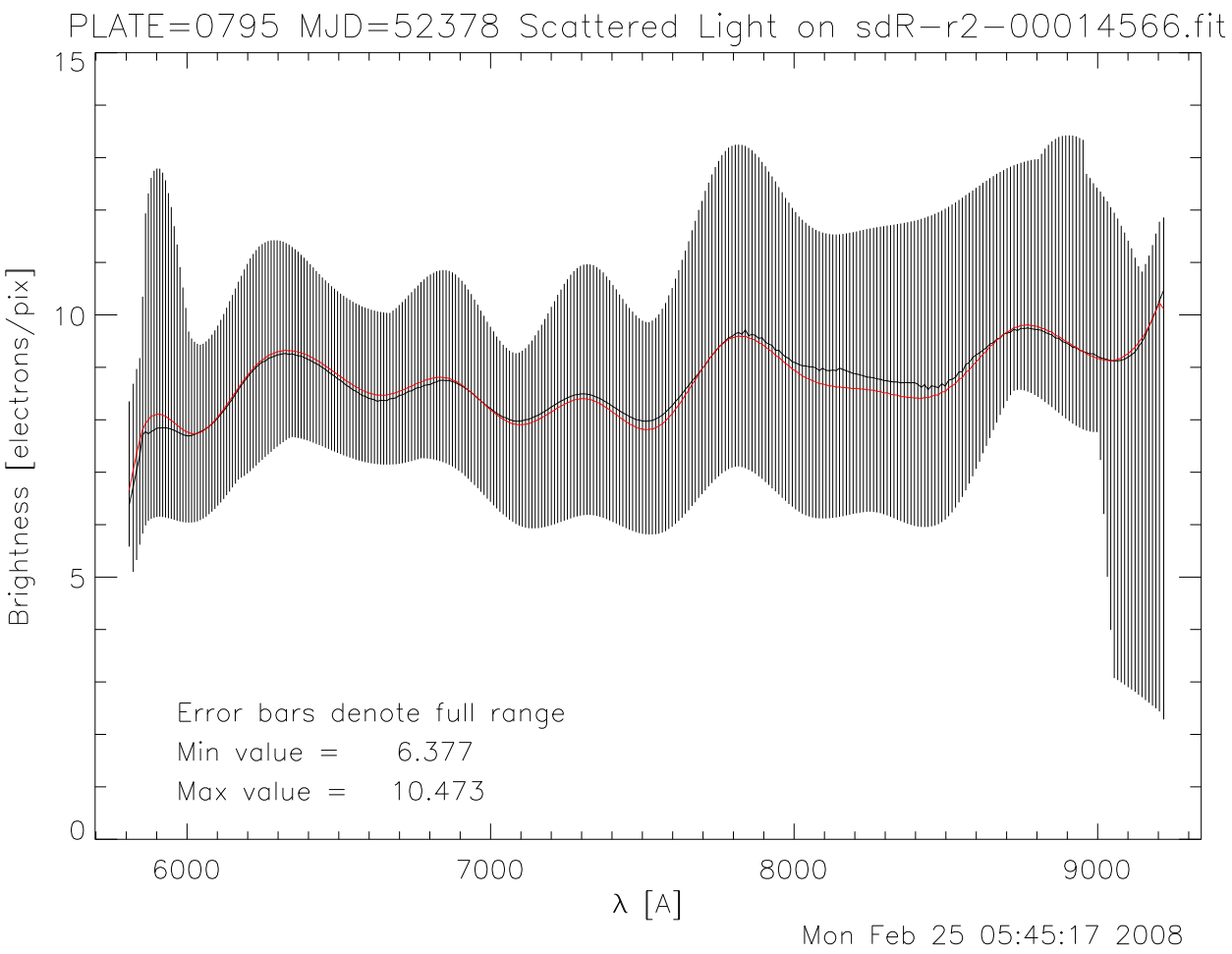

PLATE=0795 MJD=52378 sdR-r2-00014565.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.04 %
Fiber number
Focal Distance [mm]
Airmass

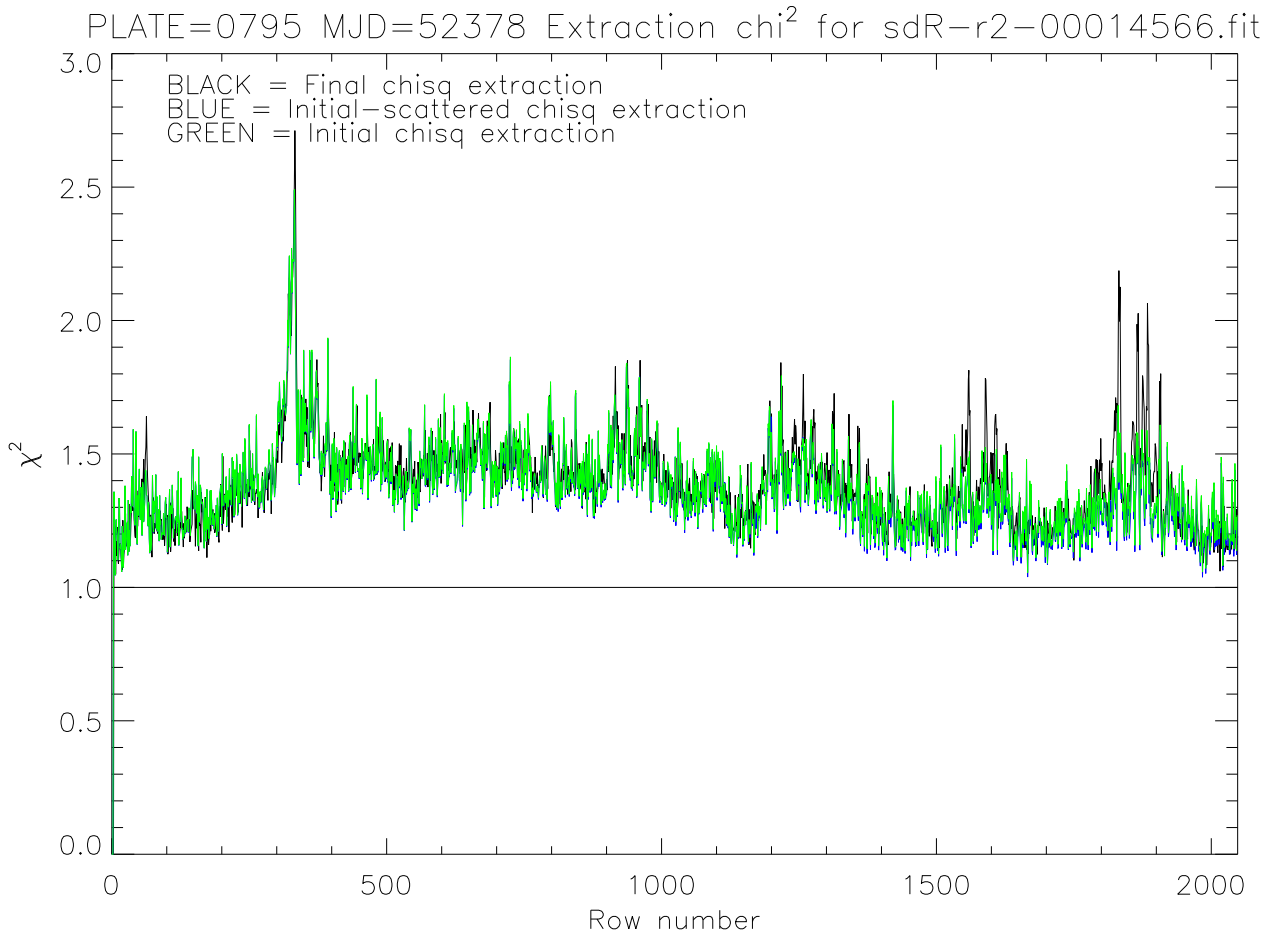

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.594
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 05:40:21 2008

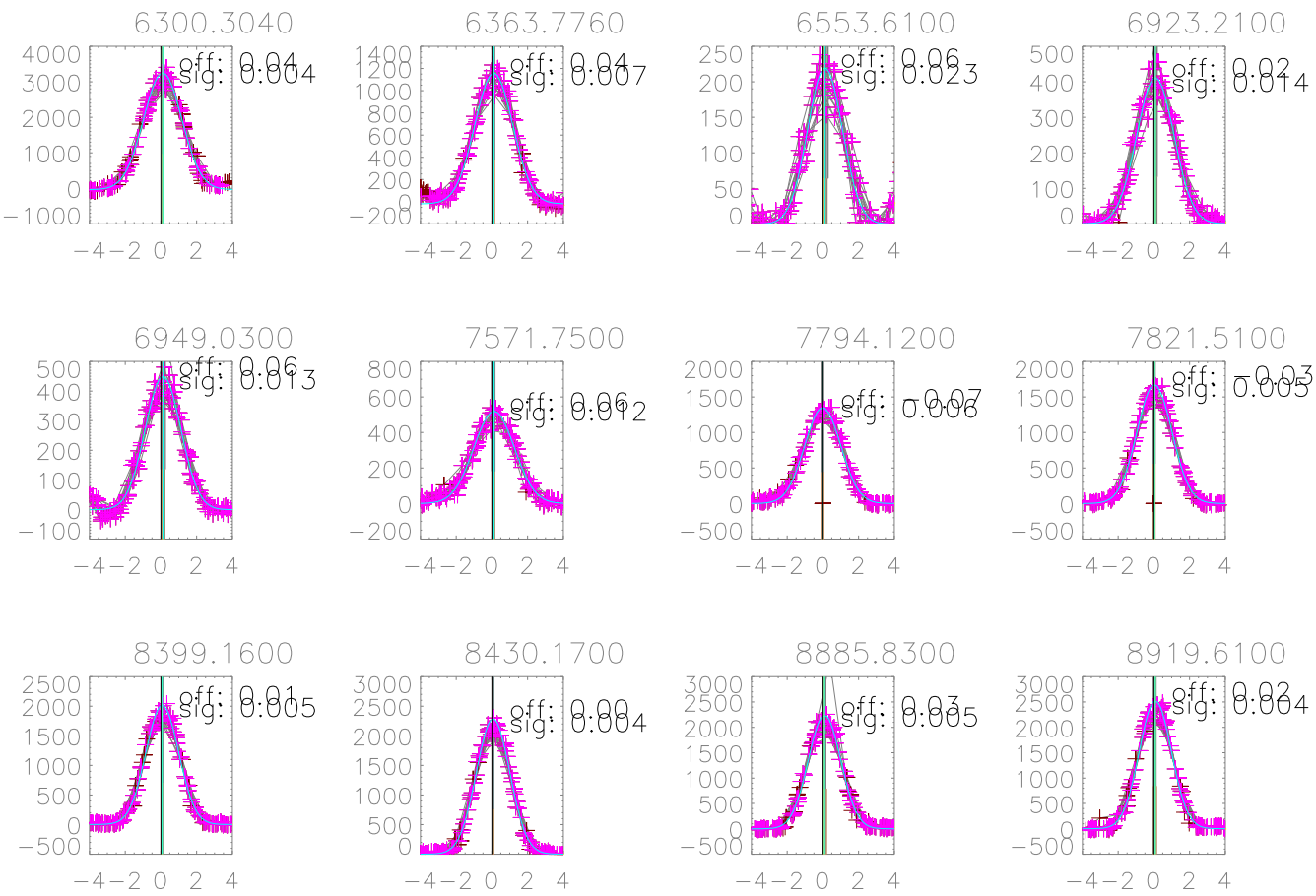

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−r2−00014566.fi
25.5
25.5
25.5
18.2
18.2
10.9
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

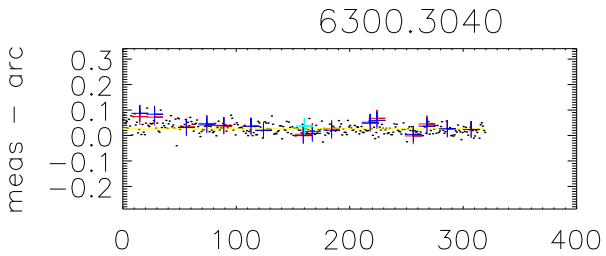

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014566.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.321
Max value = 30.059
Mon Feb 25 05:41:26 2008

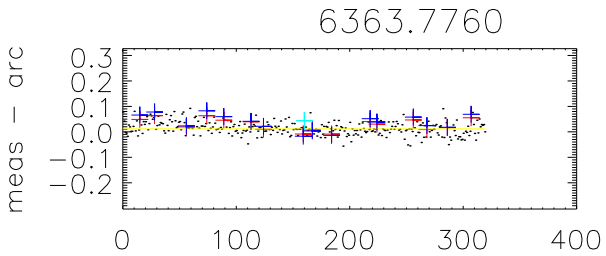

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014566.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
7.5

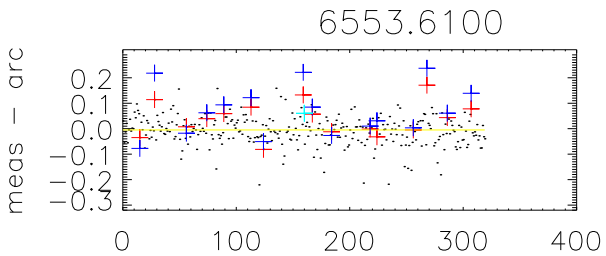

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014566.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.377
Max value = 10.473
Mon Feb 25 05:45:17 2008

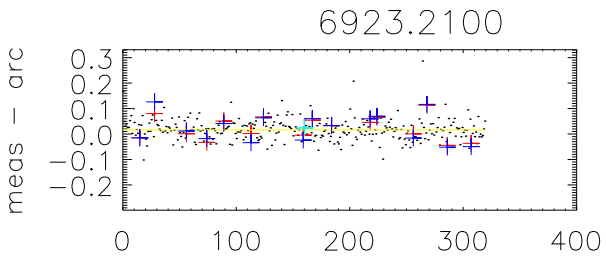

PLATE=0795 MJD=52378 Extraction chi^2 for sdR-r2-00014566.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

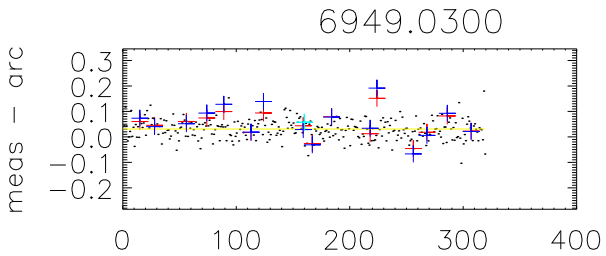

6300.3040
off: 0.04
sig: 0.004
6363.7760
off: 0.04
sig: 0.007
6553.6100
off: 0.06
sig: 0.023
6923.2100
off: 0.02
sig: 0.014
6949.0300
off: 0.06
sig: 0.013
7571.7500
off: 0.06
sig: 0.012
7794.1200
off: 0.07
sig: 0.006
7821.5100
off: 0.03
sig: 0.005
8399.1600
off: 0.01
sig: 0.005
8430.1700
off: 0.00
sig: 0.004
8885.8300
off: 0.03
sig: 0.005
8919.6100
off: 0.02
sig: 0.004

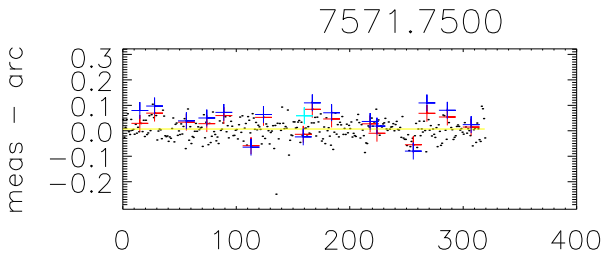

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

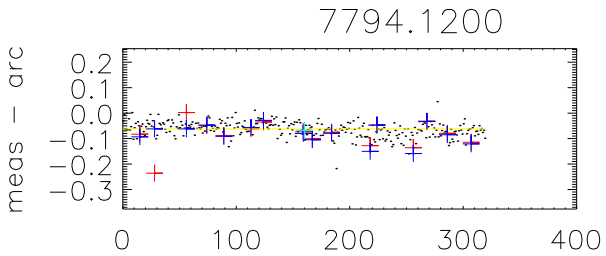

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

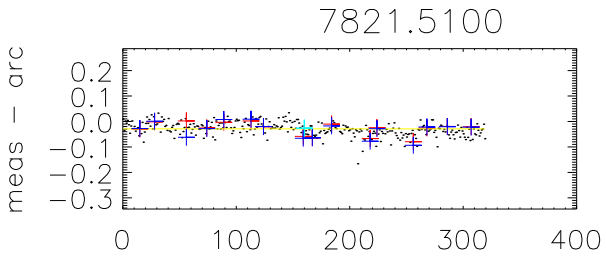

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

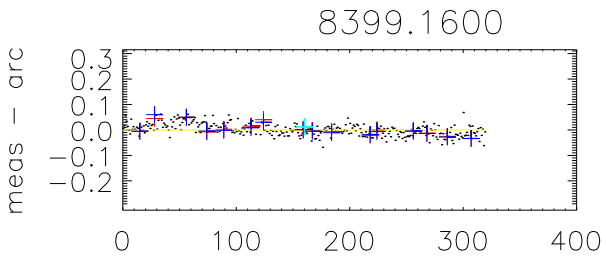

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

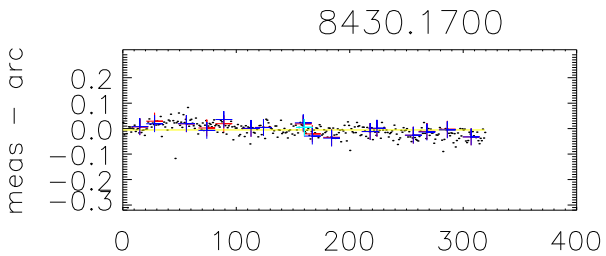

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

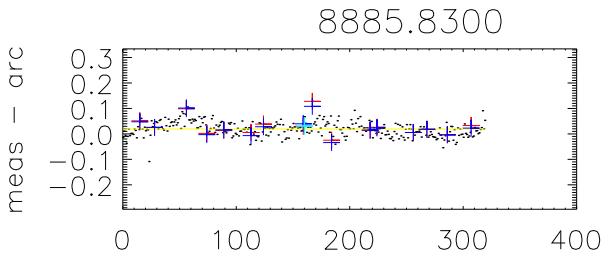

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

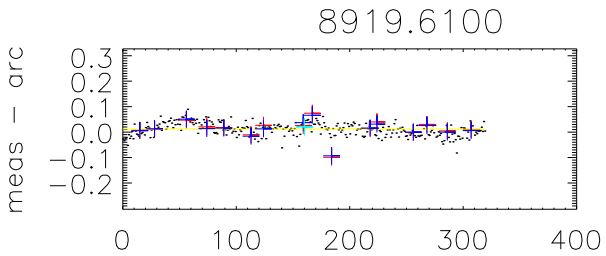

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

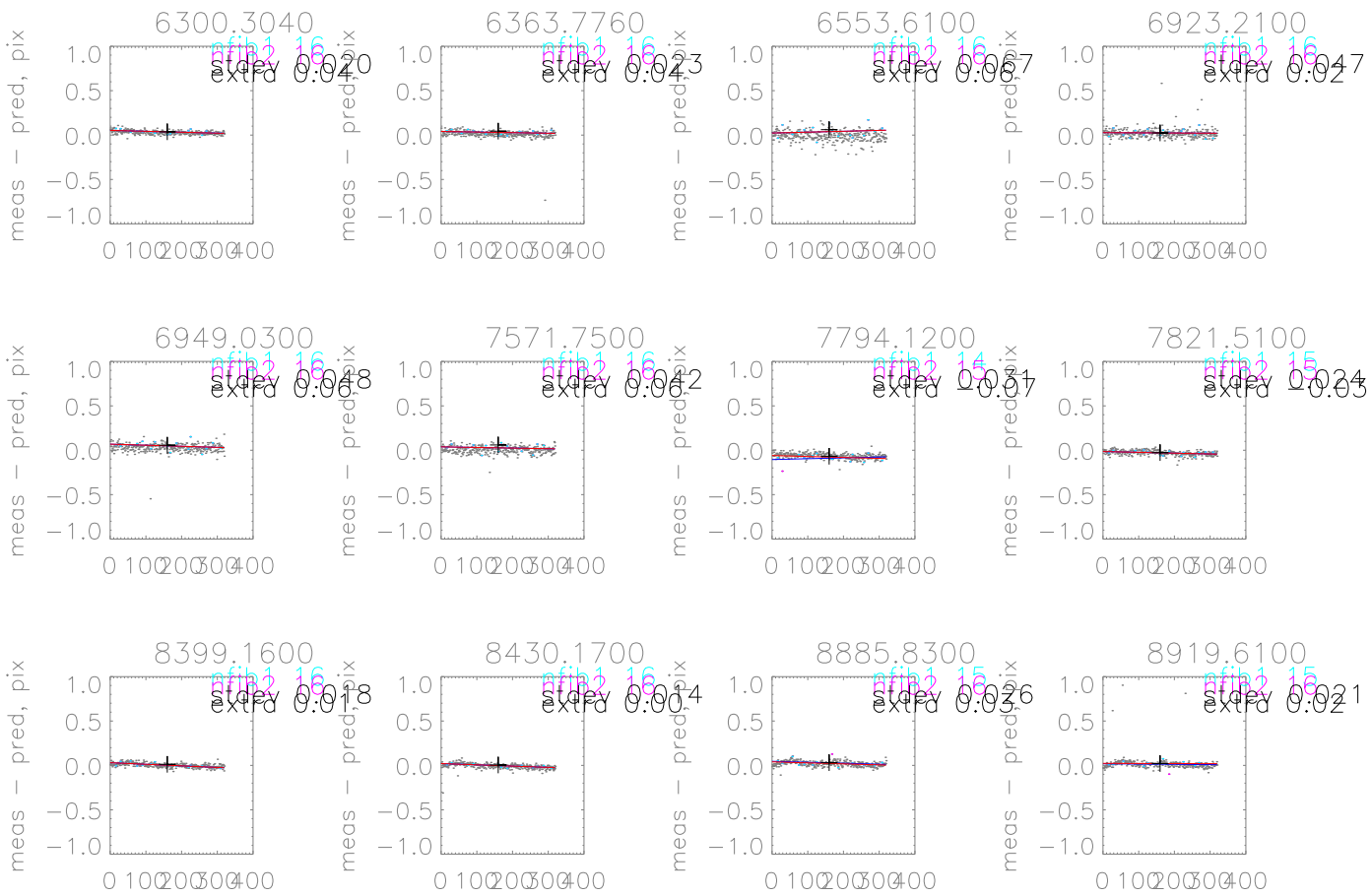

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

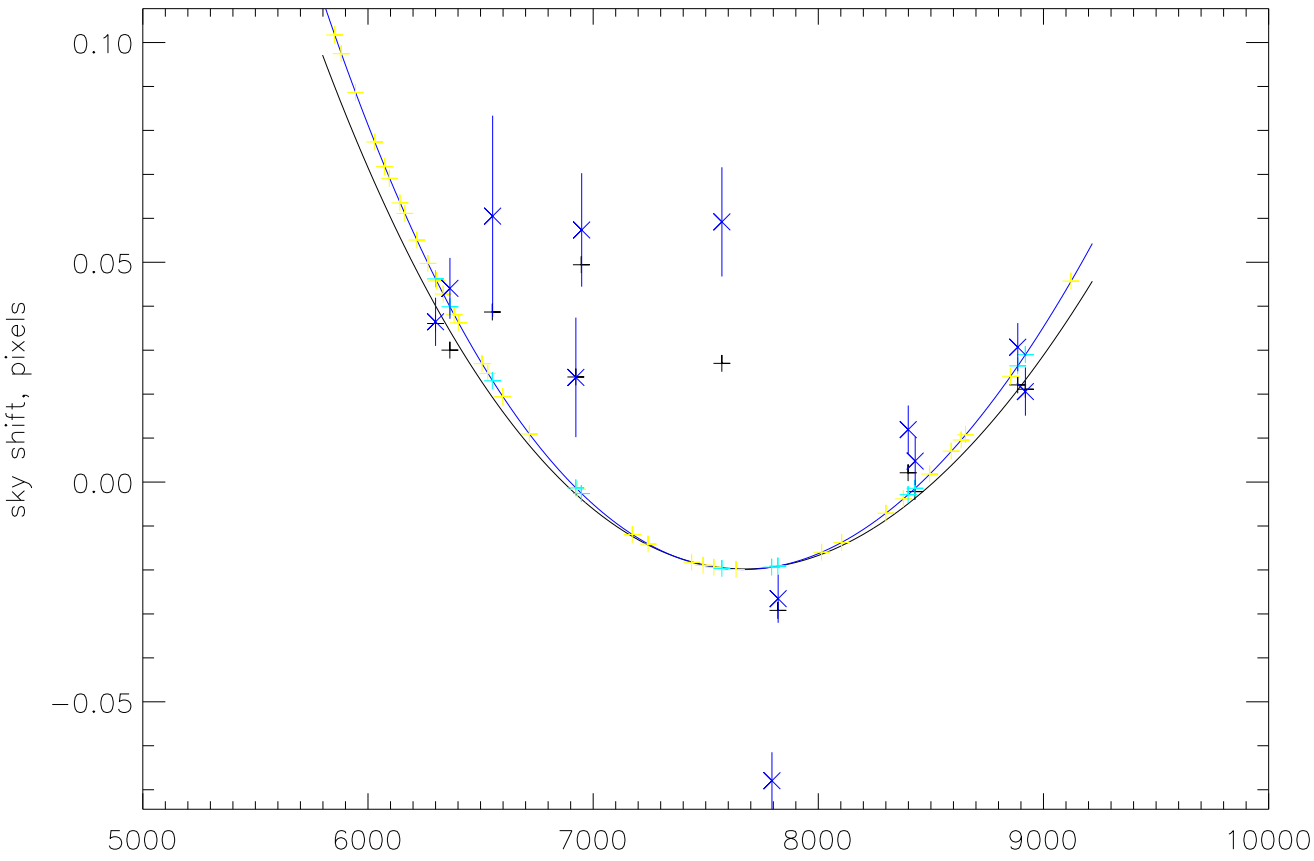

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

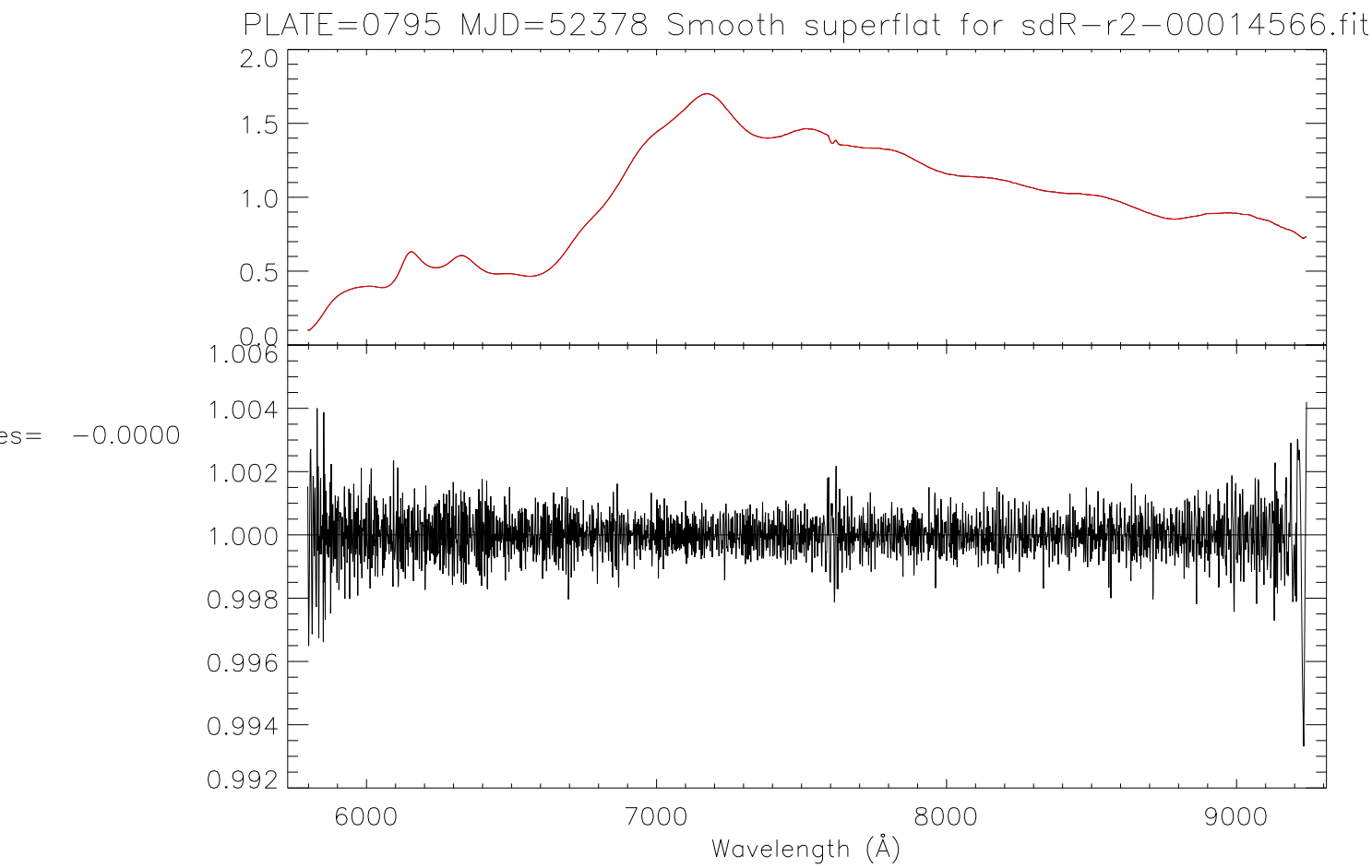

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

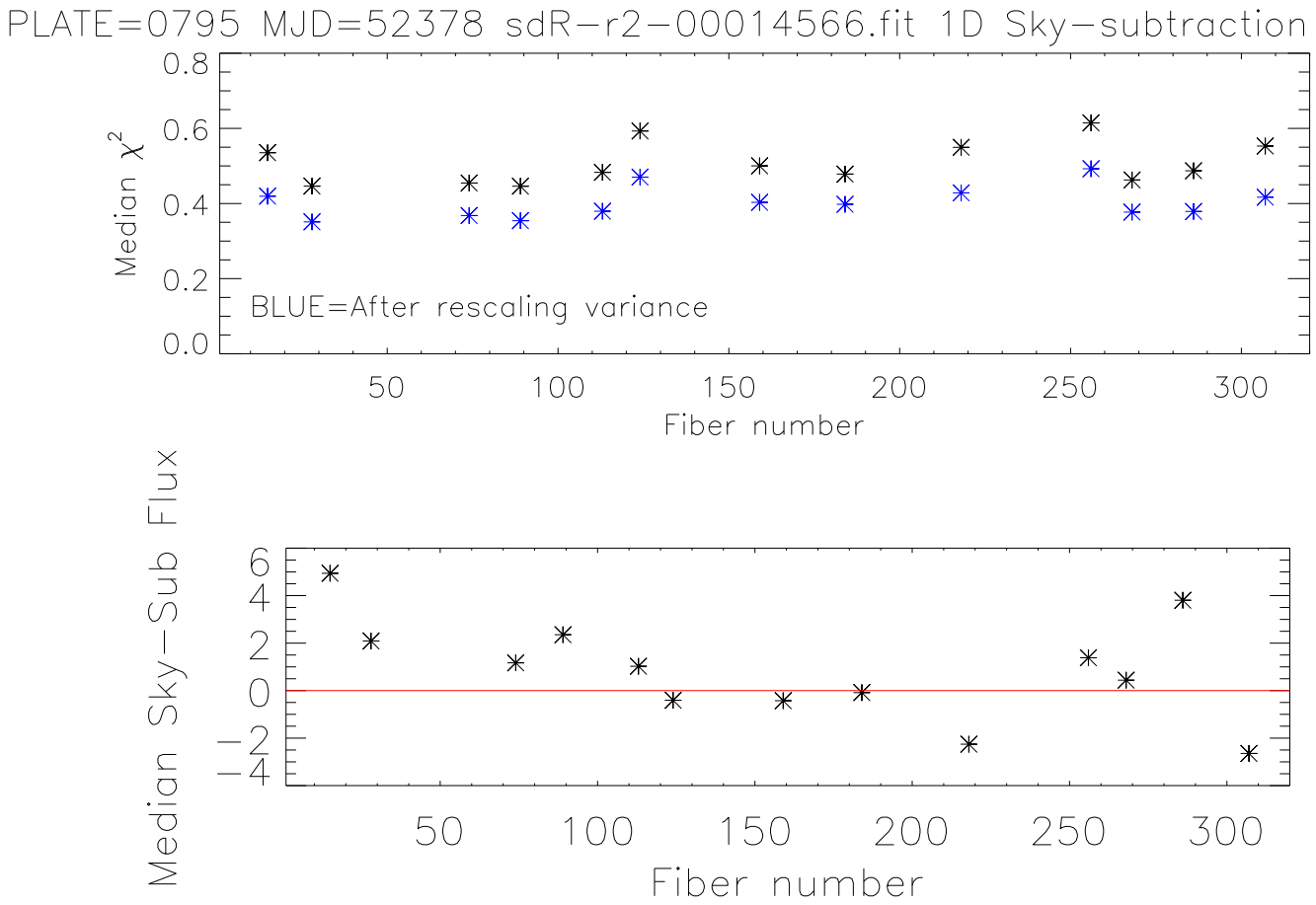

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


6300.3040
stdev 0.020
extra 0.04
6363.7760
stdev 0.023
extra 0.04
6553.6100
stdev 0.067
extra 0.06
6923.2100
stdev 0.047
extra 0.02
6949.0300
stdev 0.048
extra 0.06
7571.7500
stdev 0.042
extra 0.06
7794.1200
stdev 0.031
extra −0.07
7821.5100
stdev 0.024
extra −0.03
8399.1600
stdev 0.018
extra 0.01
8430.1700
stdev 0.014
extra 0.00
8885.8300
stdev 0.026
extra 0.03
8919.6100
stdev 0.021
extra 0.02
meas − pred, pix

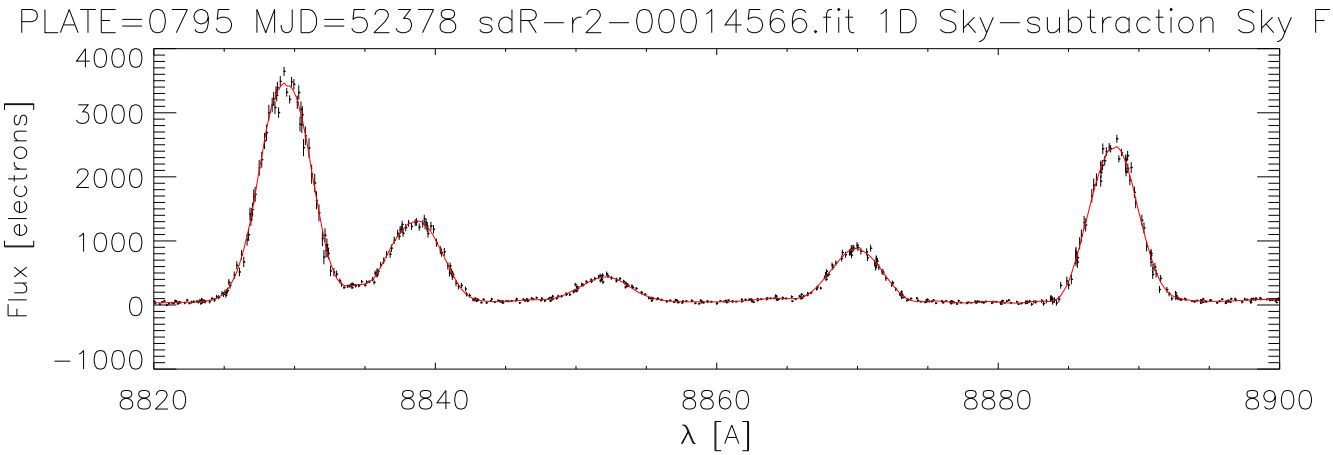

0.10
0.05
0.00
−0.05
sky shift, pixels
5000
6000
7000
8000
9000
10000

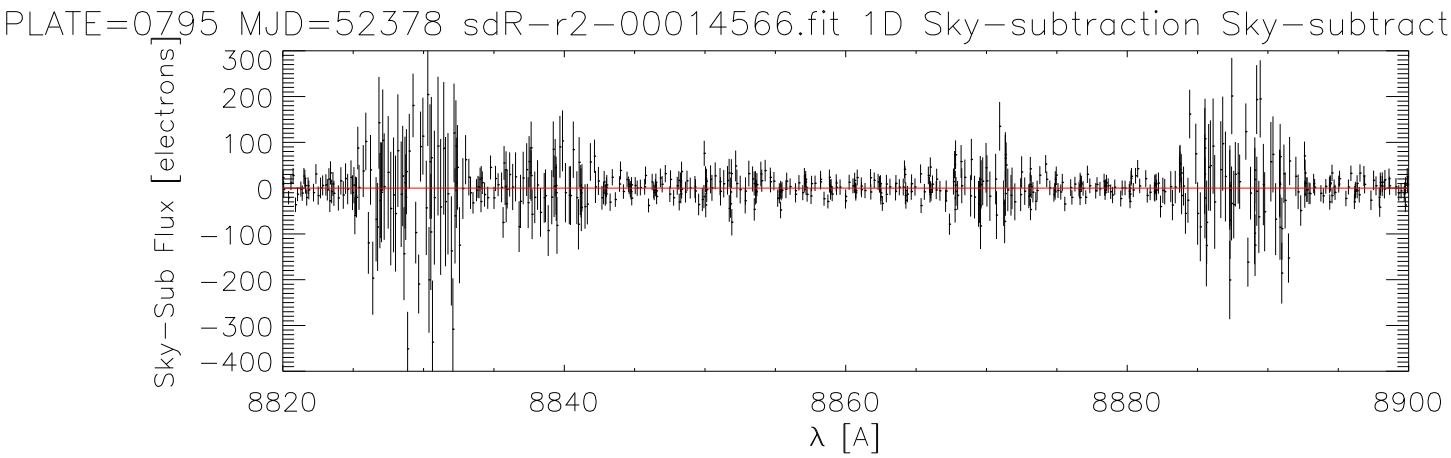

PLATE=0795 MJD=52378 Smooth superflat for sdR-r2-00014566.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

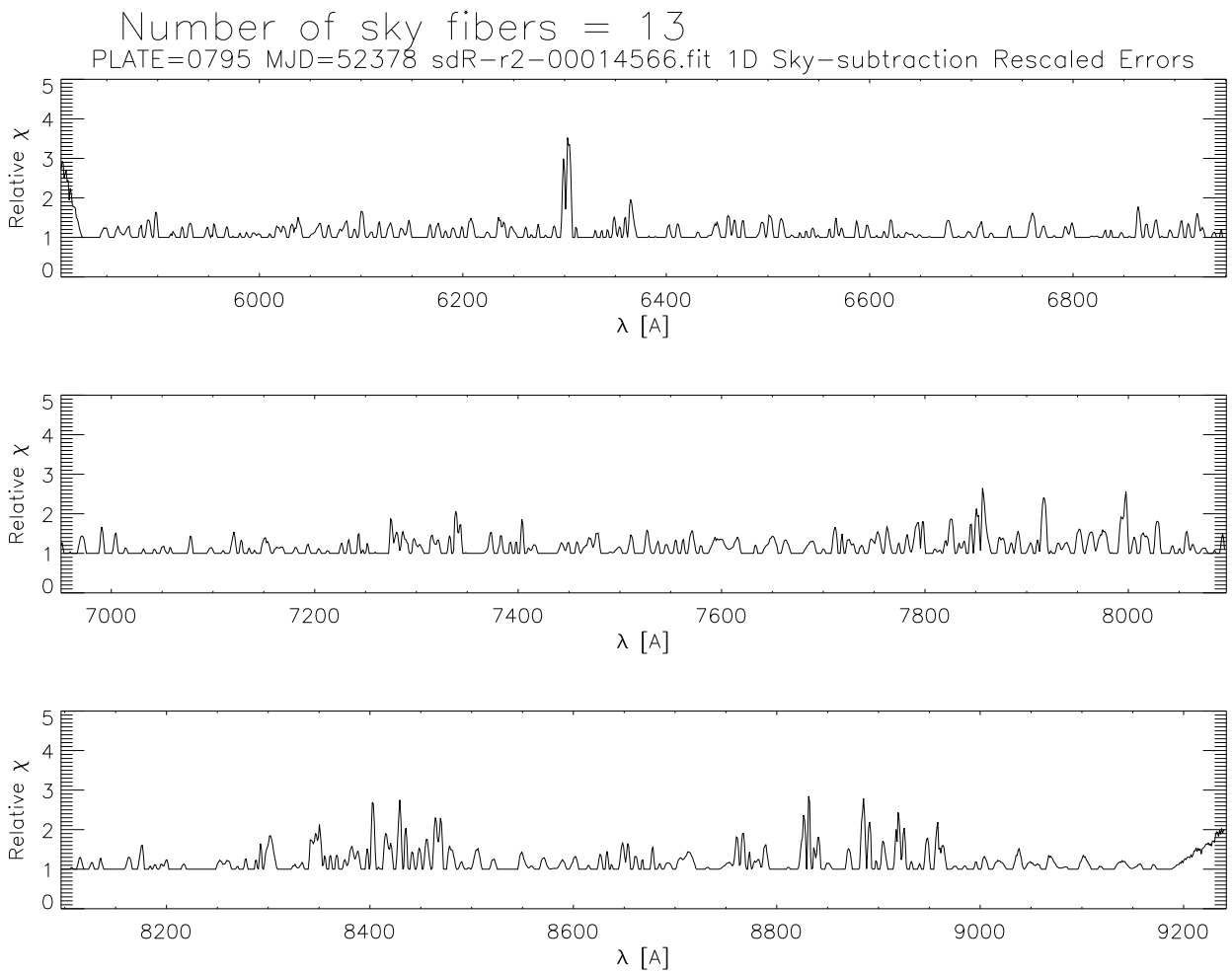
es= −0.0000

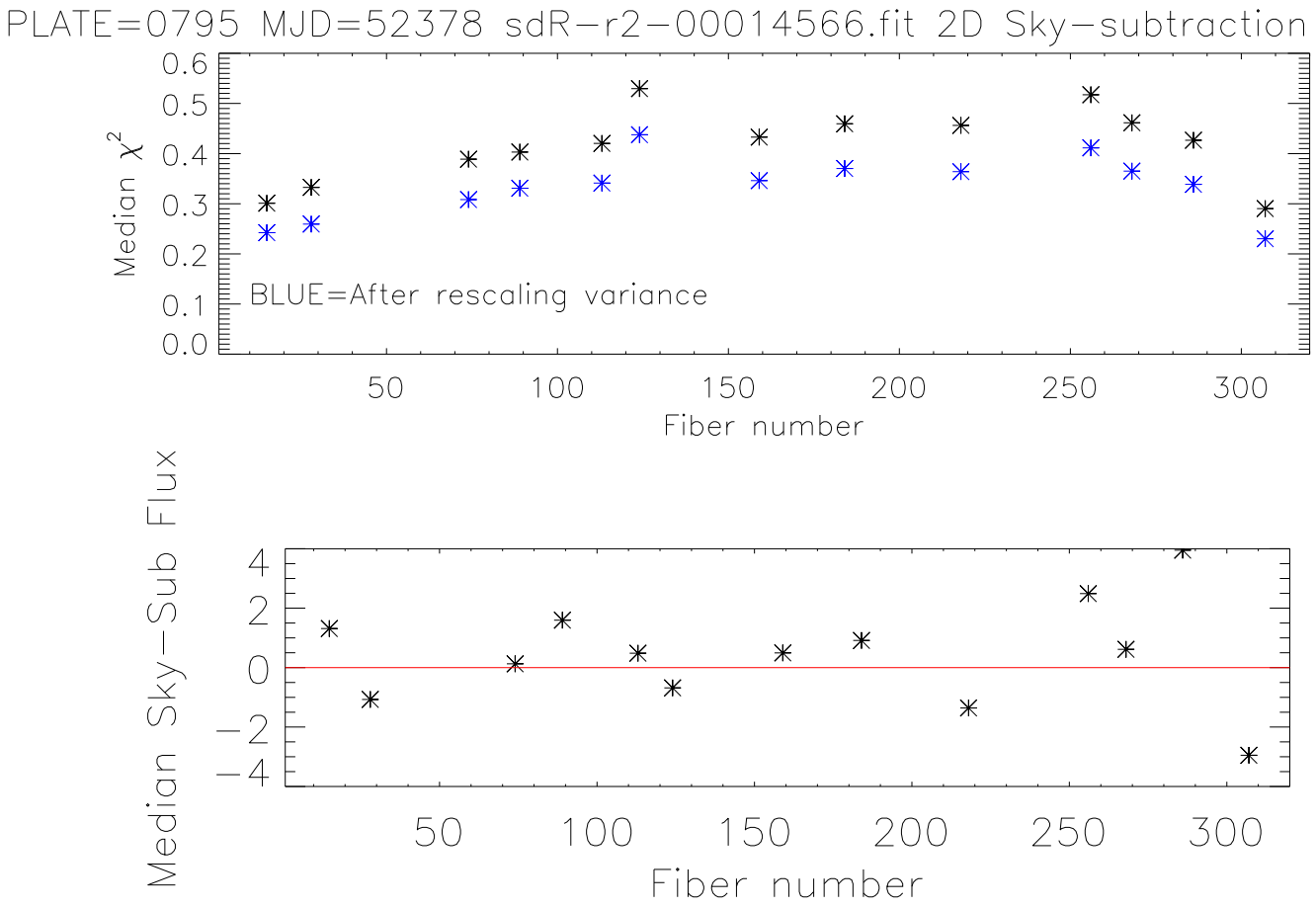

PLATE=0795 MJD=52378 sdR-r2-00014566.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

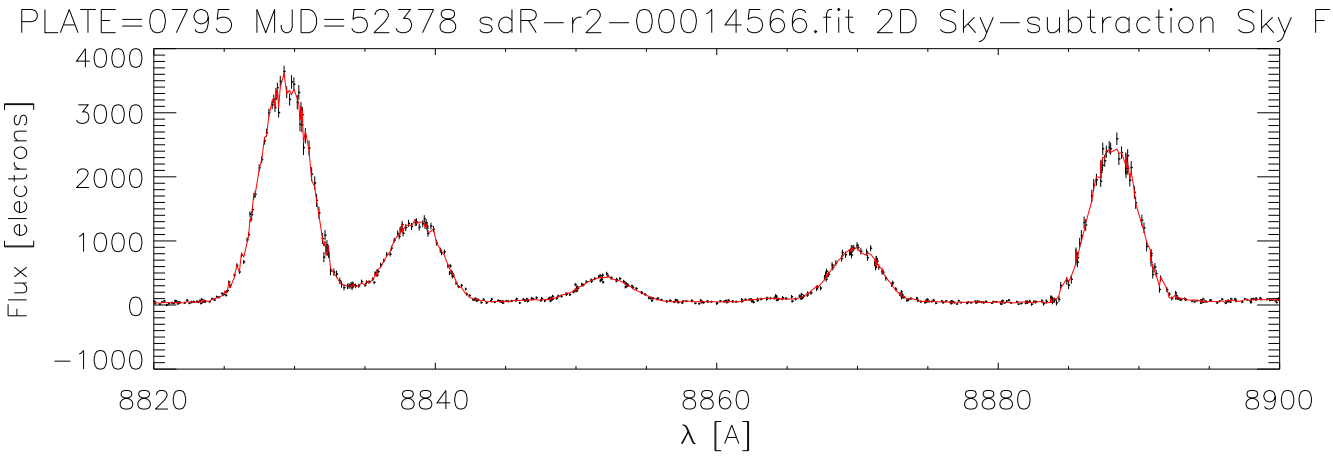
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

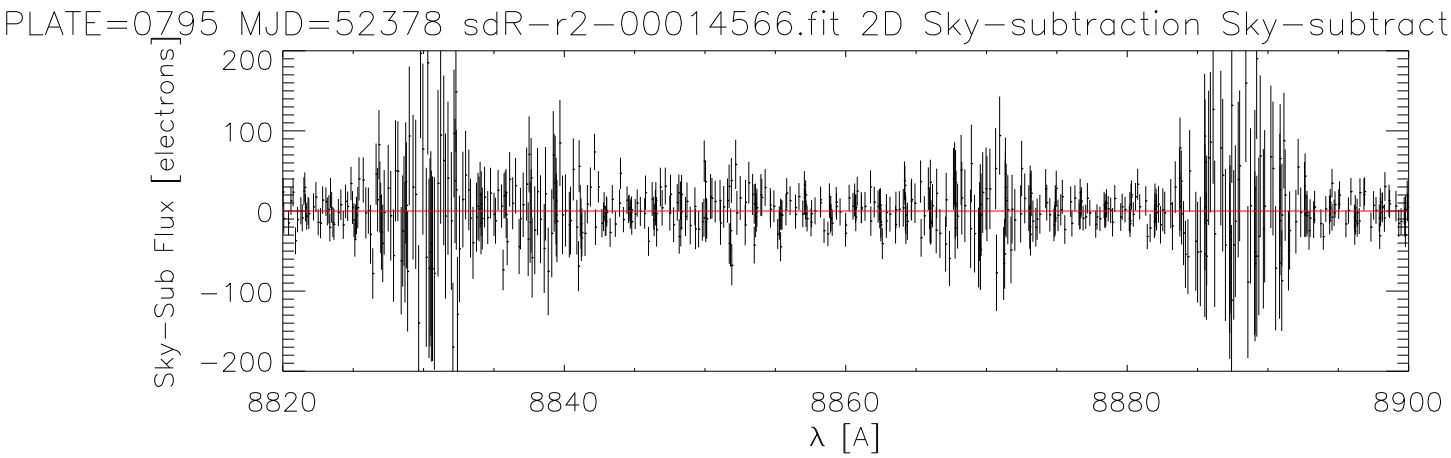

PLATE=0795 MJD=52378 sdR-r2-00014566.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

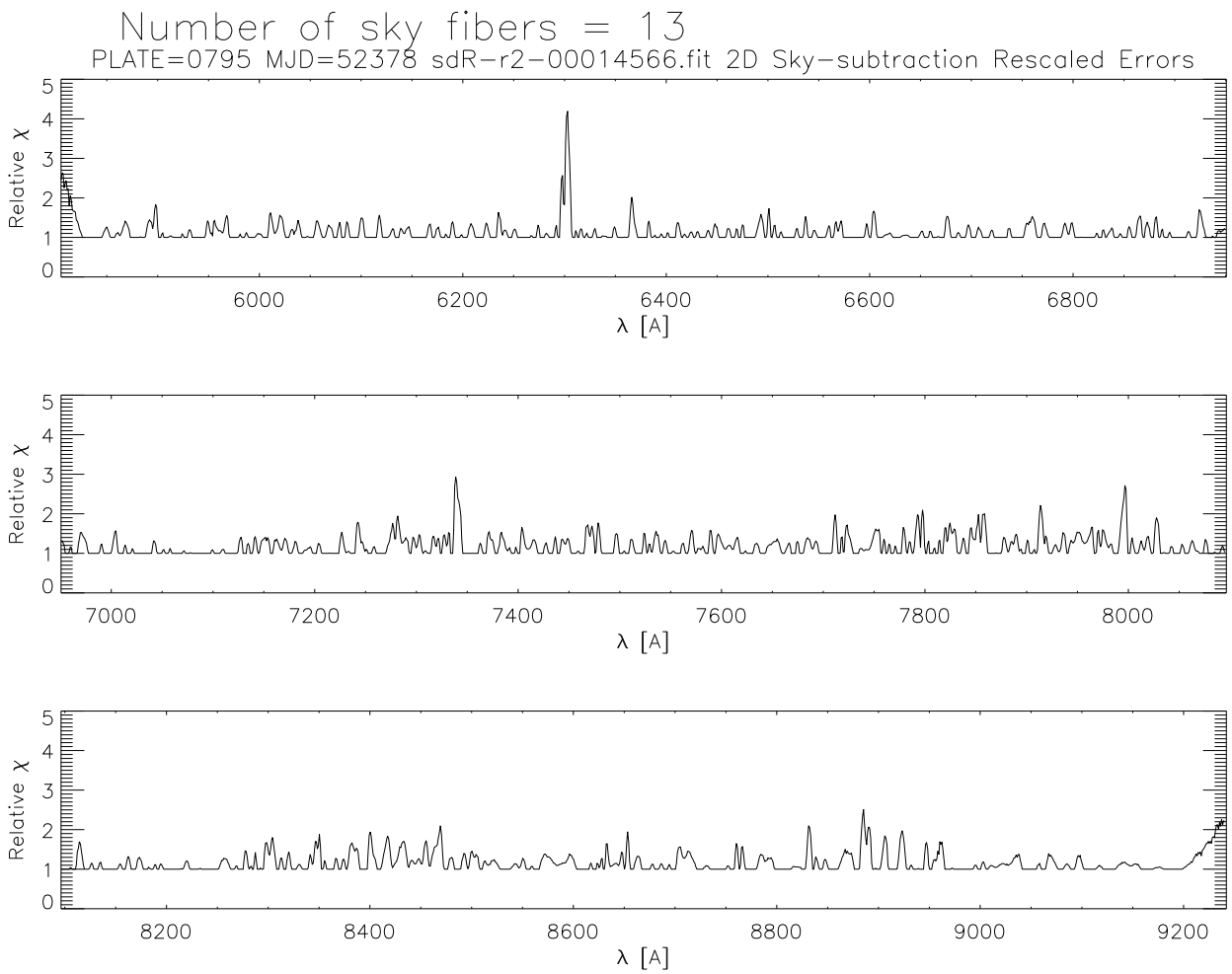

PLATE=0795 MJD=52378 sdR-r2-00014566.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
-400
8820
8840
8860
8880
8900
λ [A]

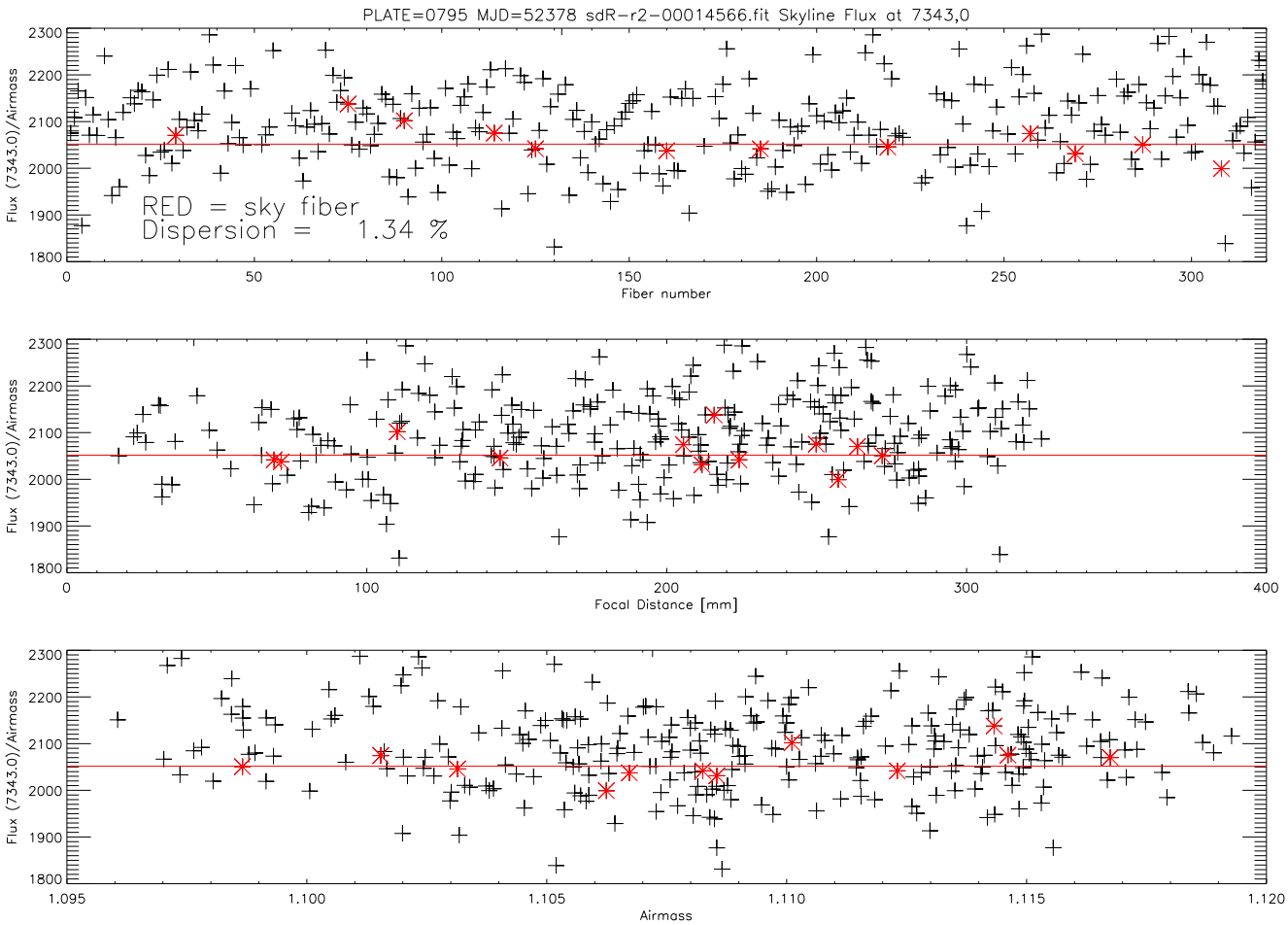

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014566.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

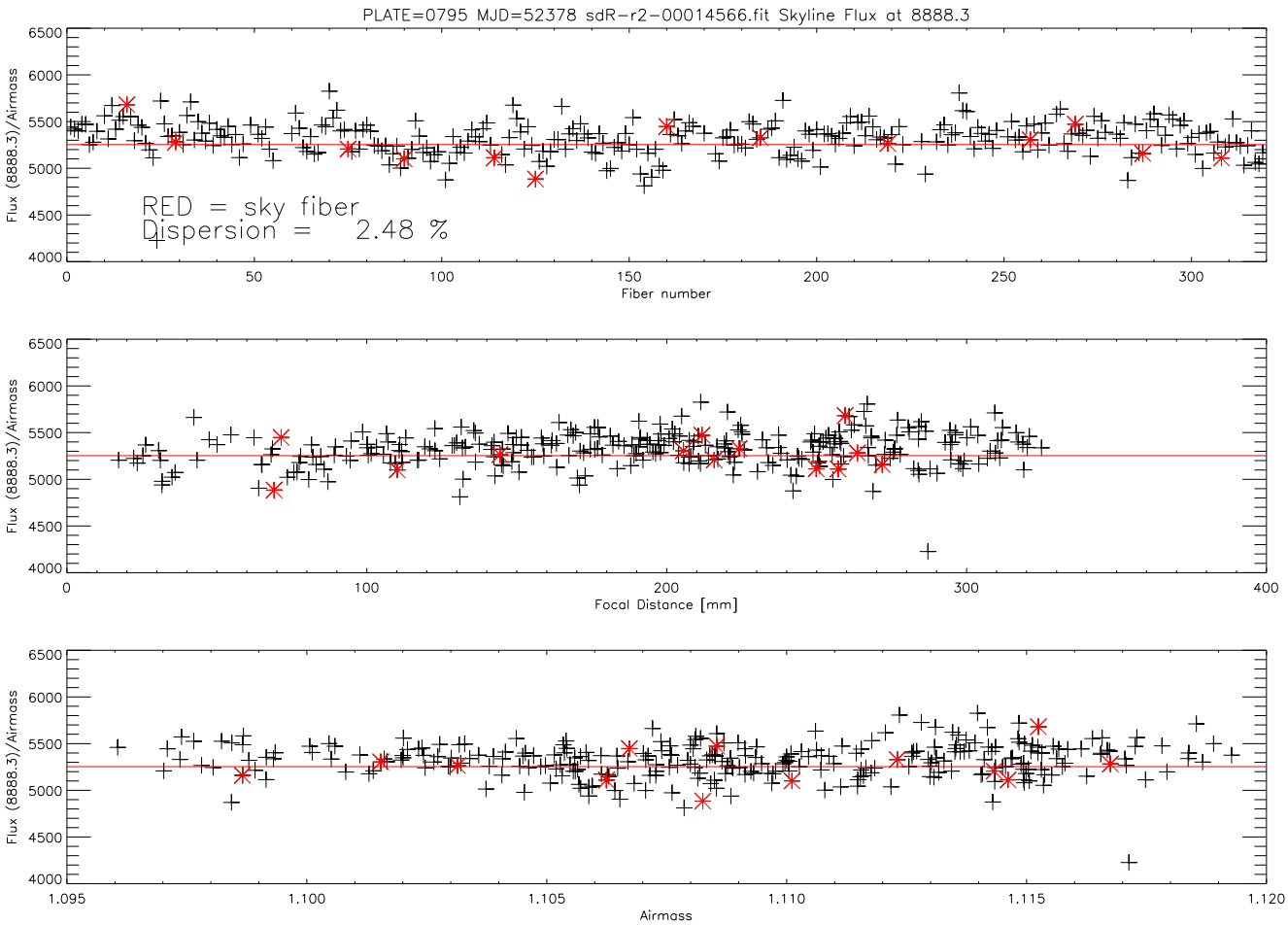

PLATE=0795 MJD=52378 sdR-r2-00014566.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

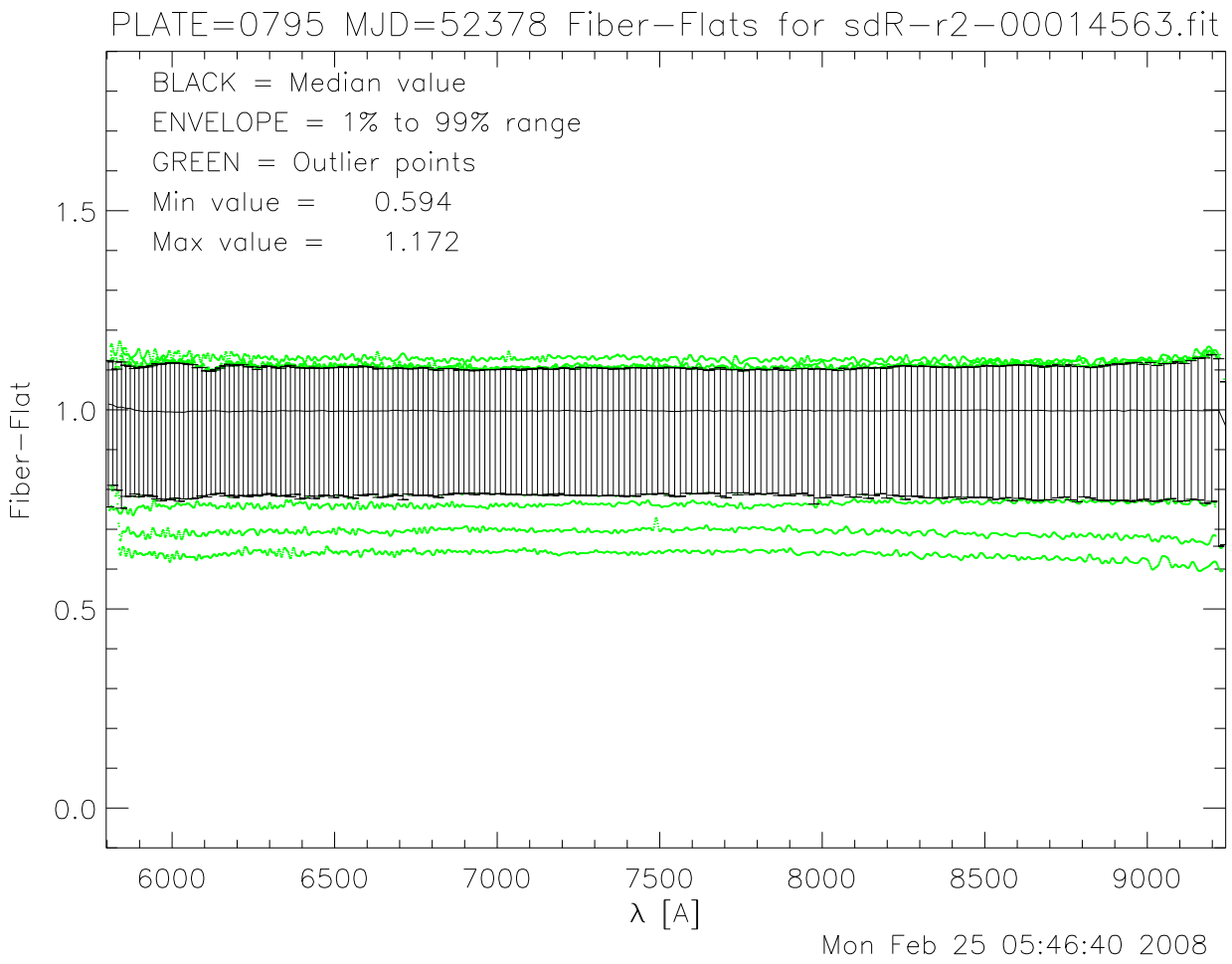

PLATE=0795 MJD=52378 sdR-r2-00014566.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

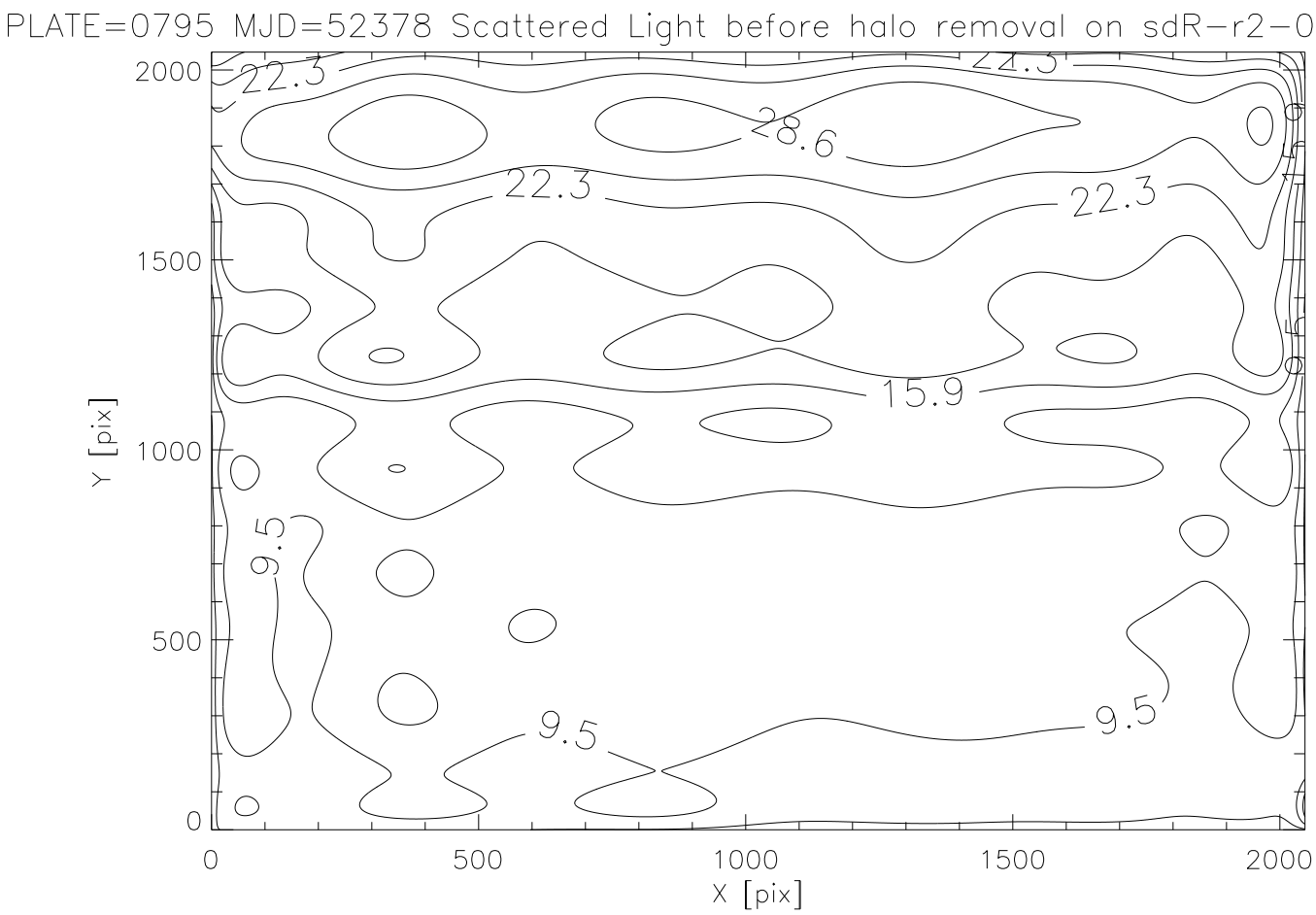

PLATE=0795 MJD=52378 sdR-r2-00014566.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

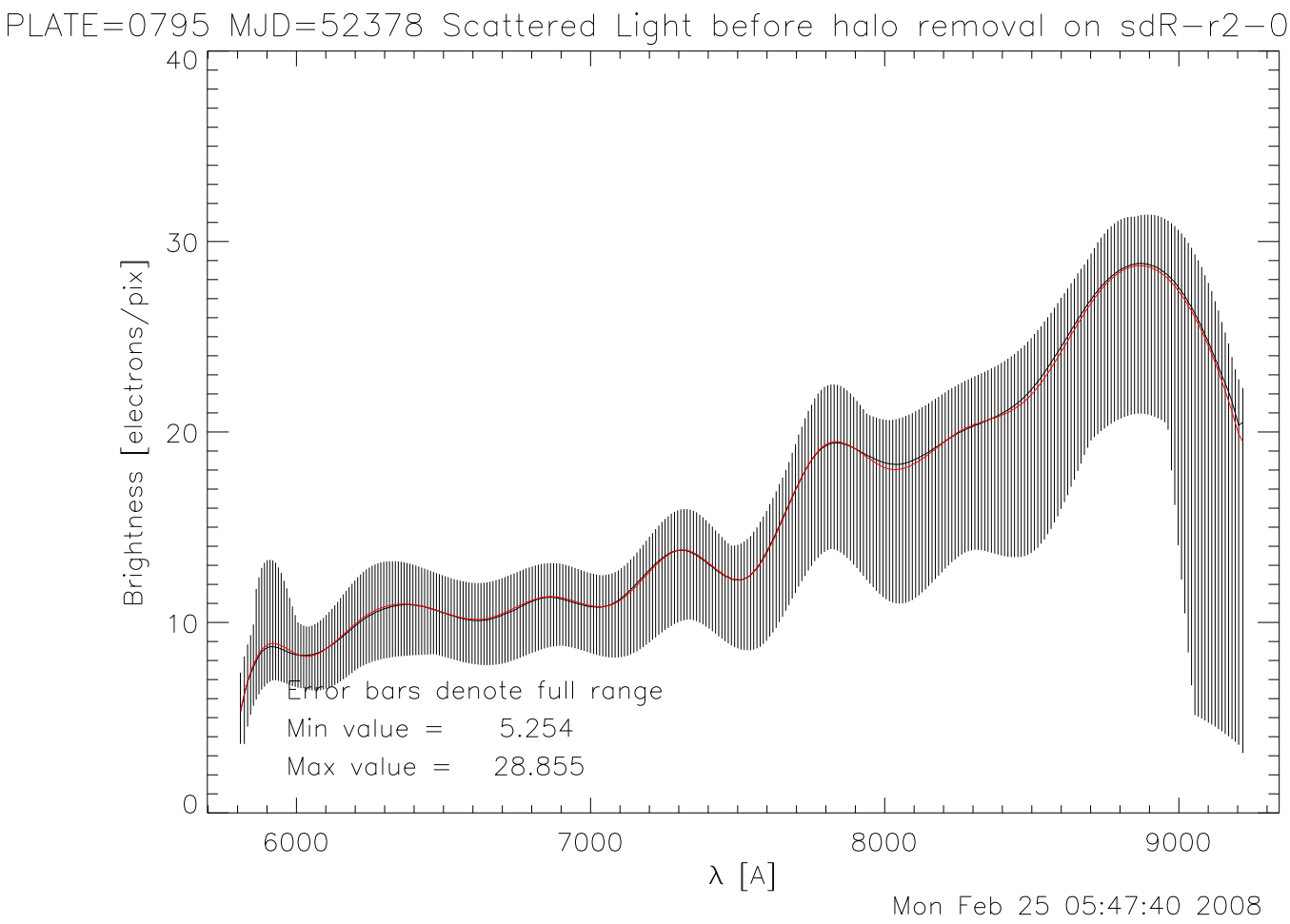

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014566.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

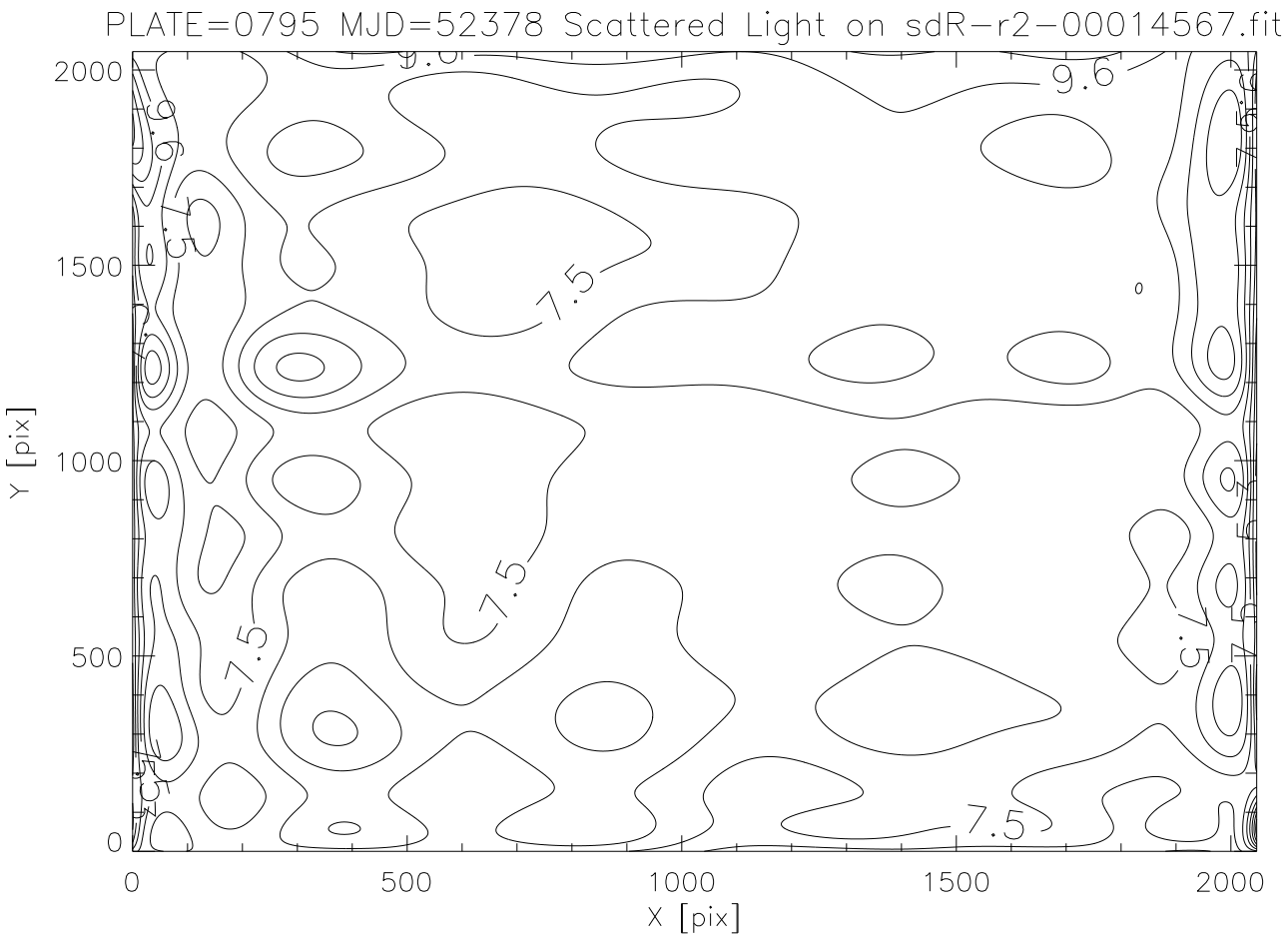

PLATE=0795 MJD=52378 sdR-r2-00014566.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.34 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

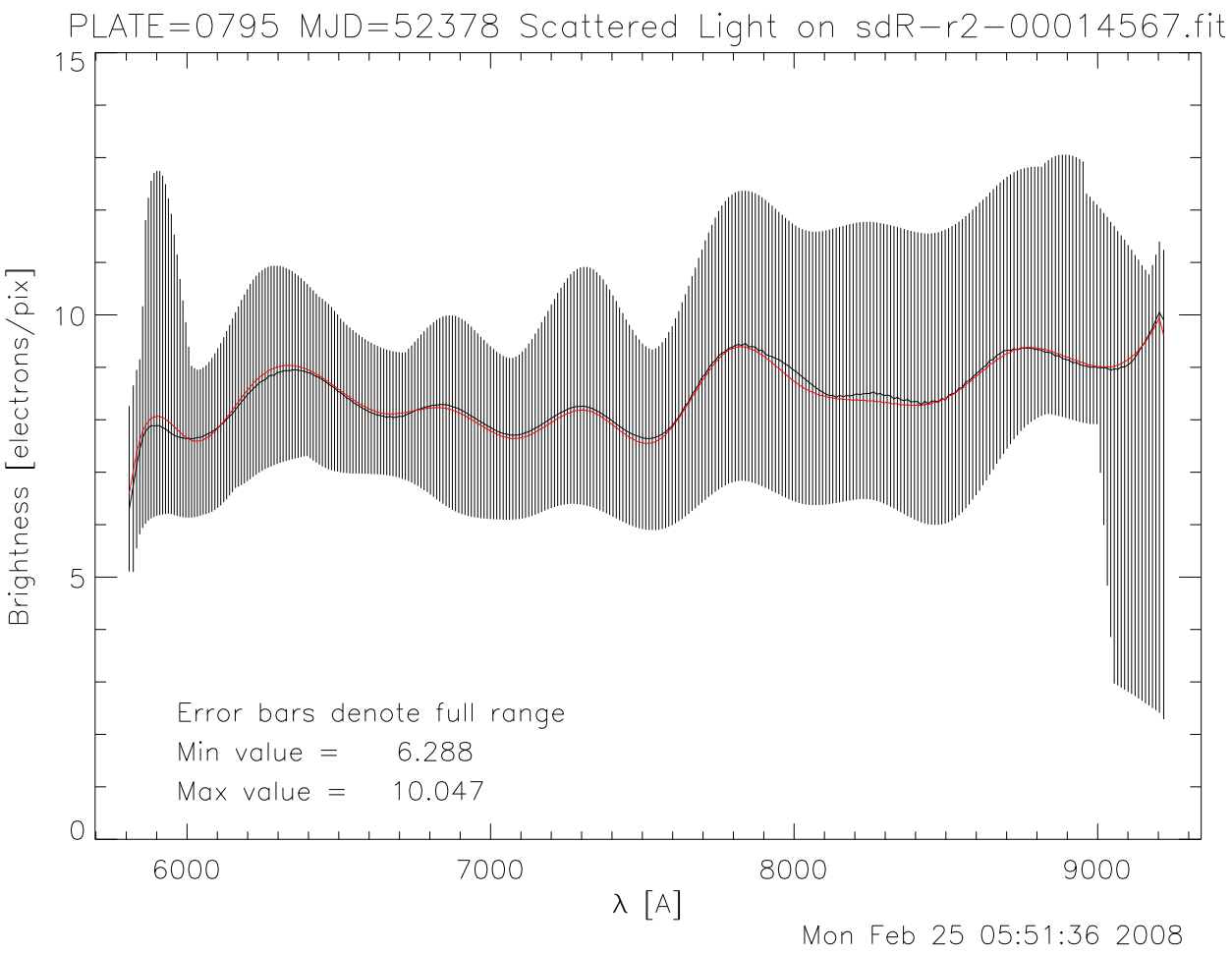

PLATE=0795 MJD=52378 sdR-r2-00014566.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.48 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

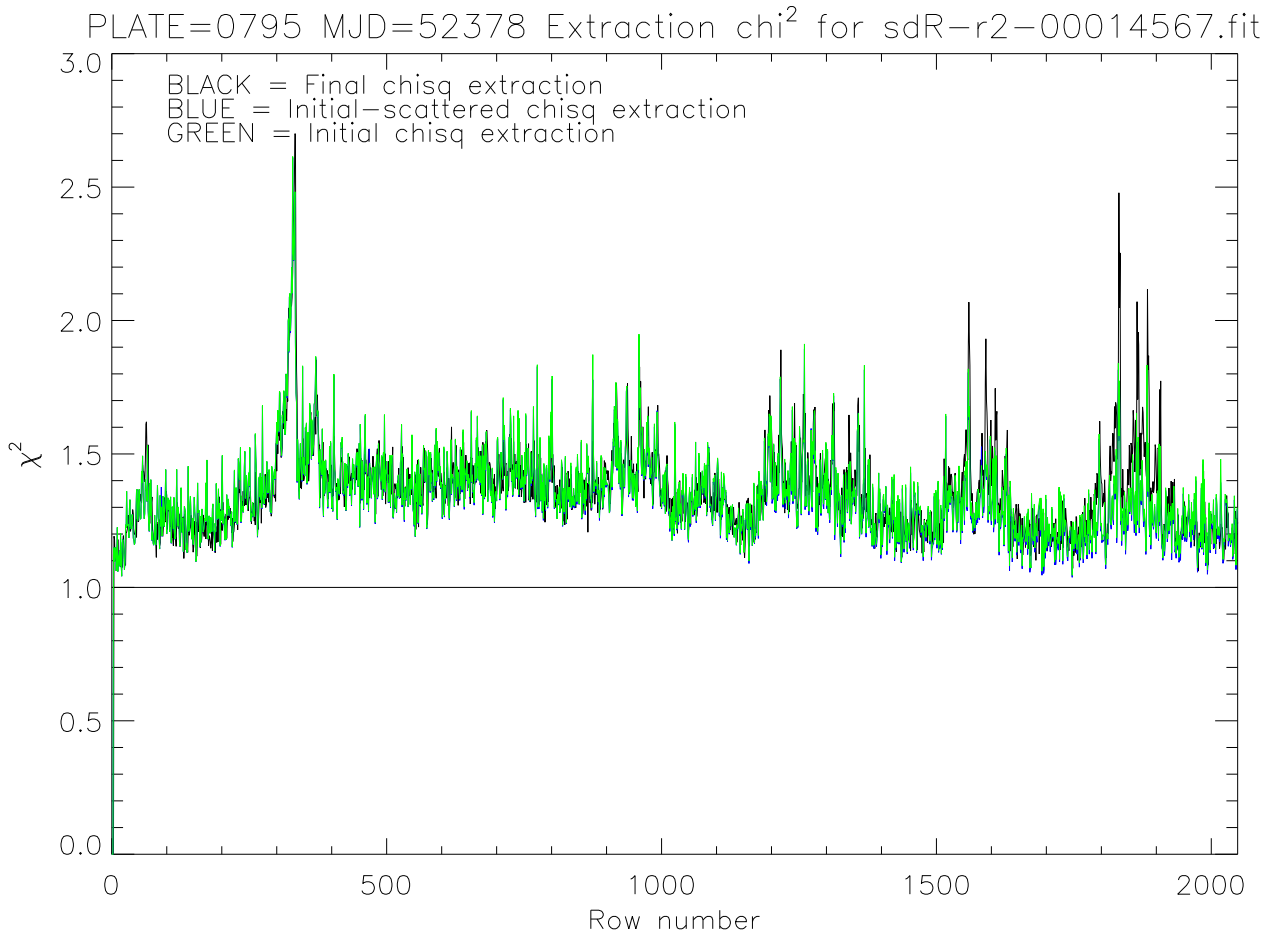

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.594
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 05:46:40 2008

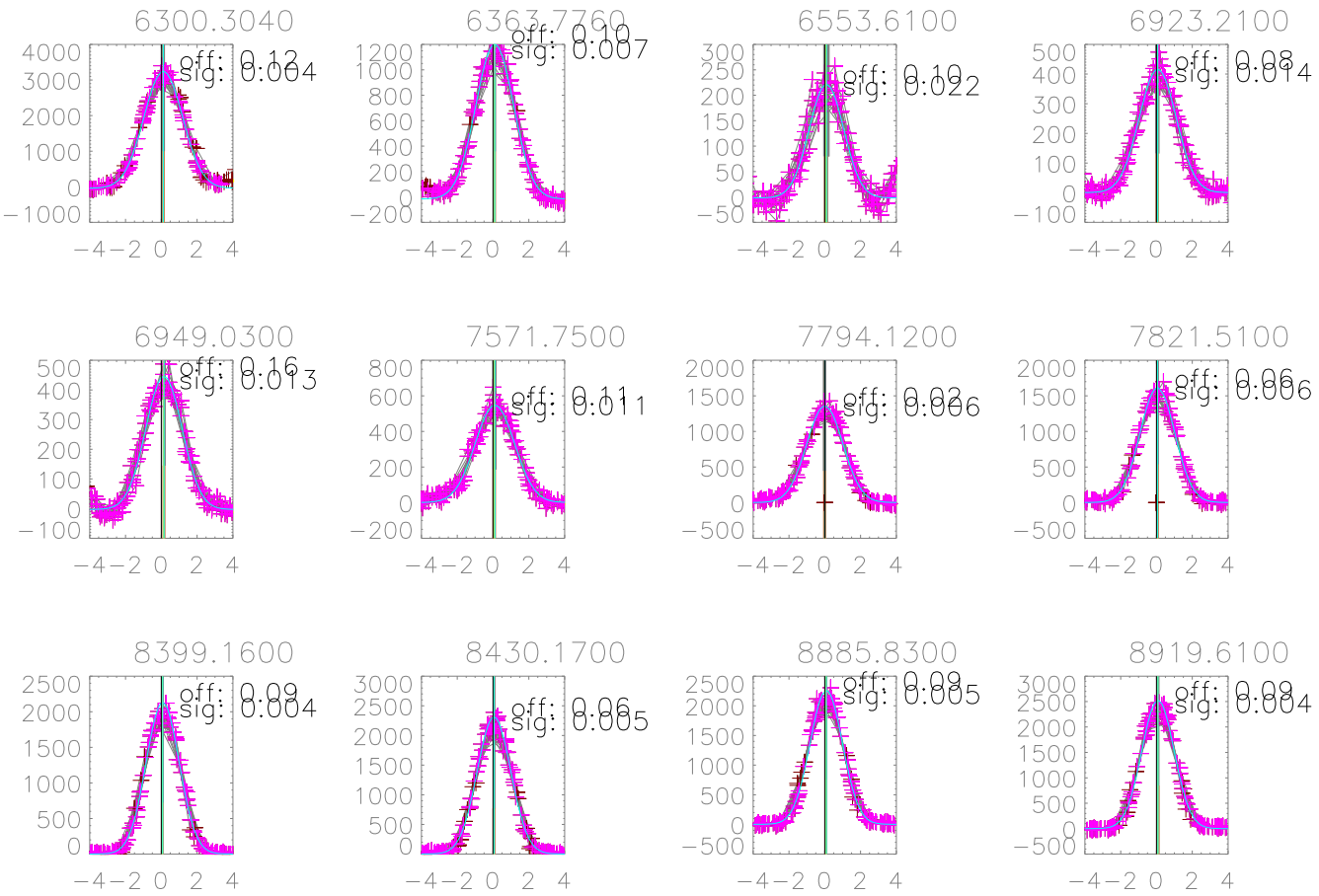

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014567.fi
22.3
28.6
22.3
22.3
15.9
9.5
9.5
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

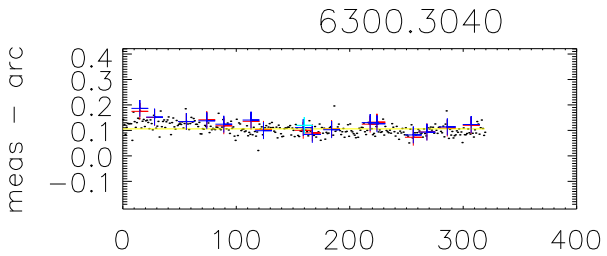

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014567.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.254
Max value = 28.855
Mon Feb 25 05:47:40 2008

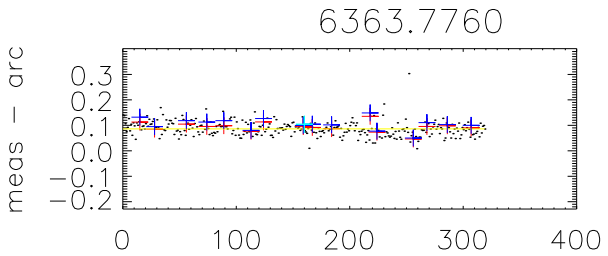

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014567.fit
9.6
7.5
Y [pix]
X [pix]
0
500
1000
1500
2000

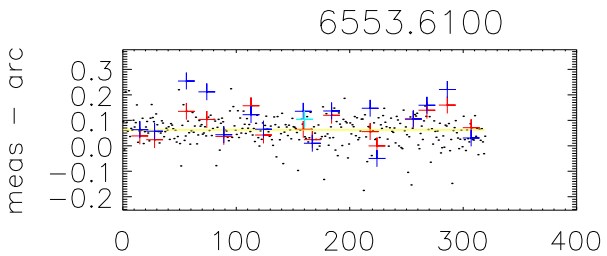

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014567.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.288
Max value = 10.047
Mon Feb 25 05:51:36 2008

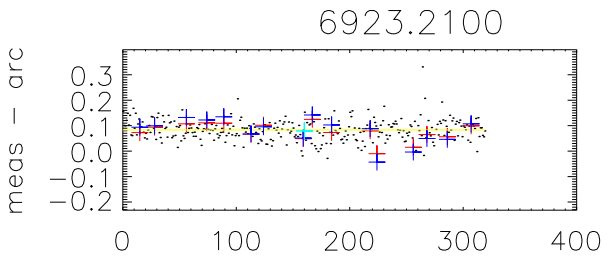

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r2−00014567.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

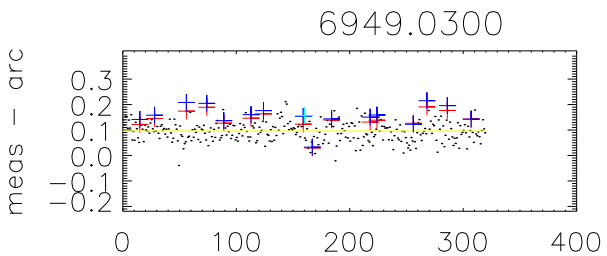

6300.3040
off: 0.12
sig: 0.004
6363.7760
off: 0.10
sig: 0.007
6553.6100
off: 0.10
sig: 0.022
6923.2100
off: 0.08
sig: 0.014
6949.0300
off: 0.16
sig: 0.013
7571.7500
off: 0.11
sig: 0.011
7794.1200
off: 0.02
sig: 0.006
7821.5100
off: 0.06
sig: 0.006
8399.1600
off: 0.09
sig: 0.004
8430.1700
off: 0.06
sig: 0.005
8885.8300
off: 0.09
sig: 0.005
8919.6100
off: 0.09
sig: 0.004

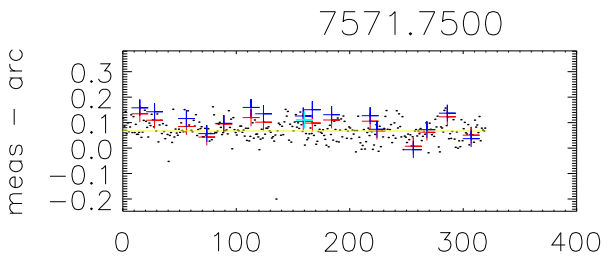

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

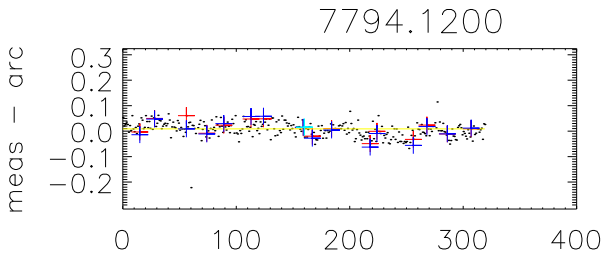

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

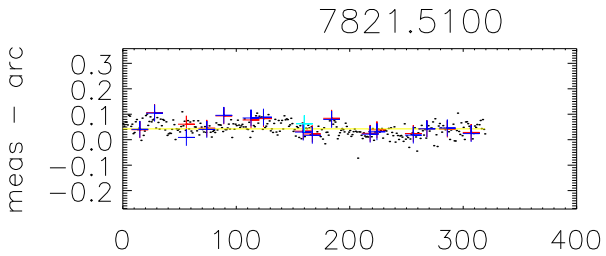

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

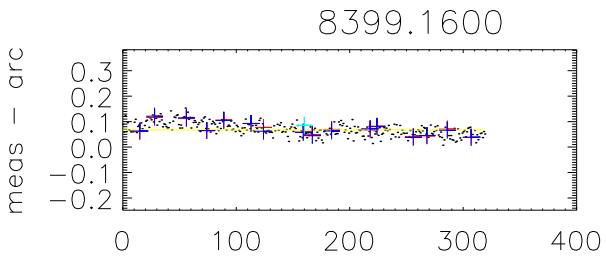

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

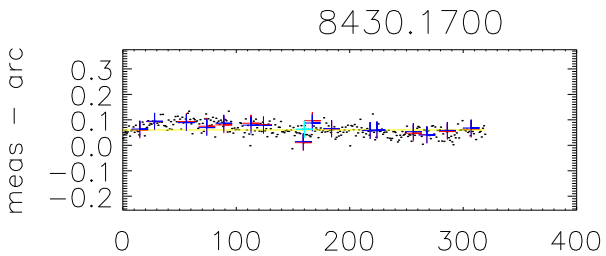

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

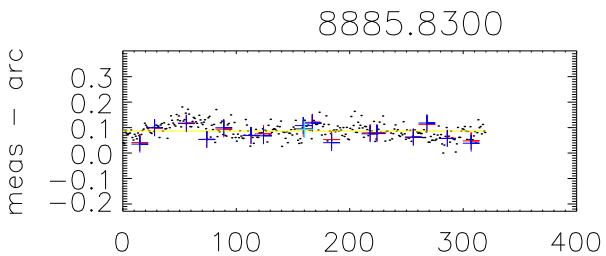

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

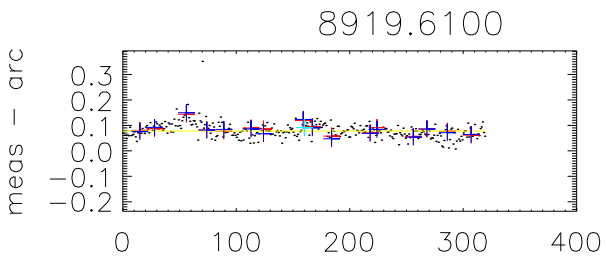

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

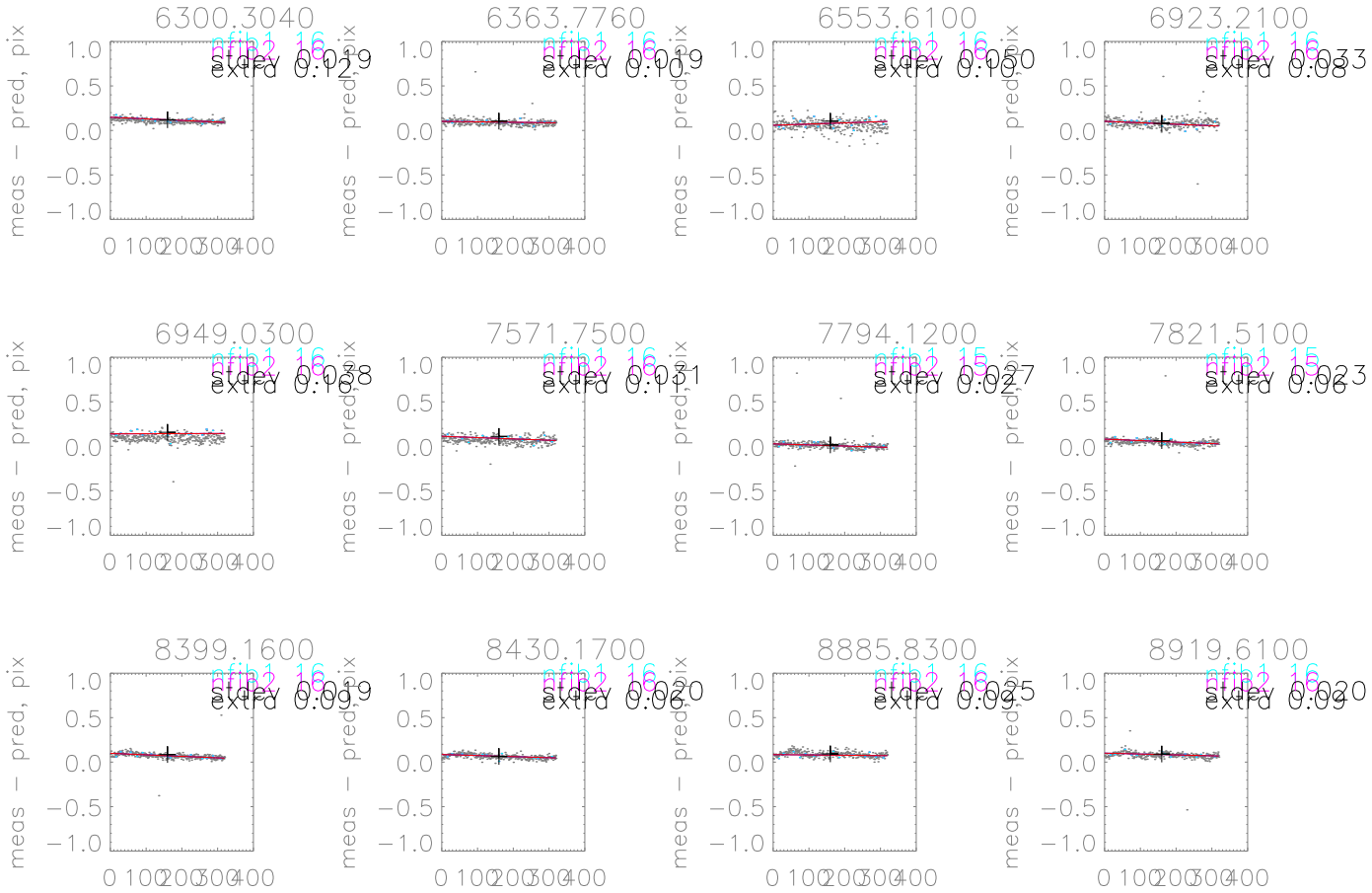

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

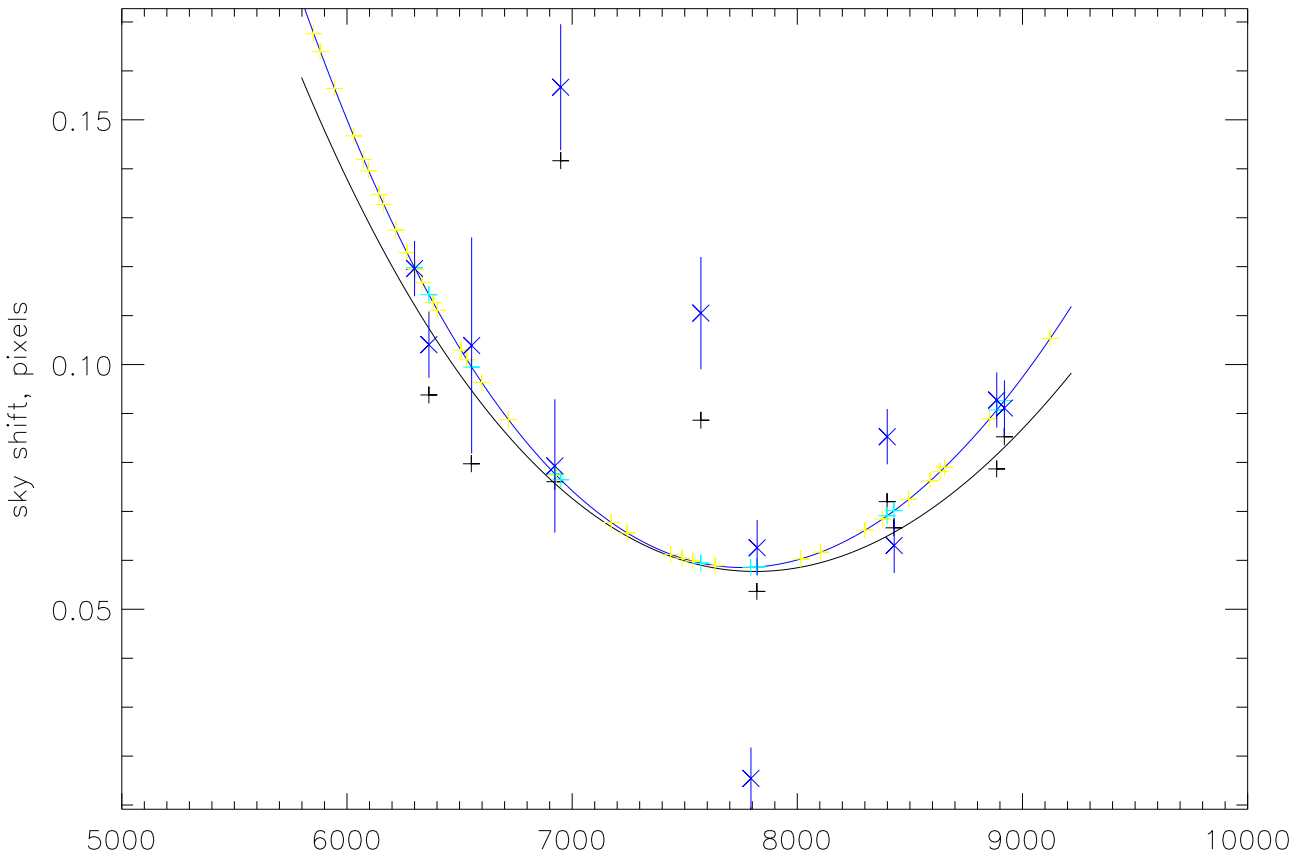

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

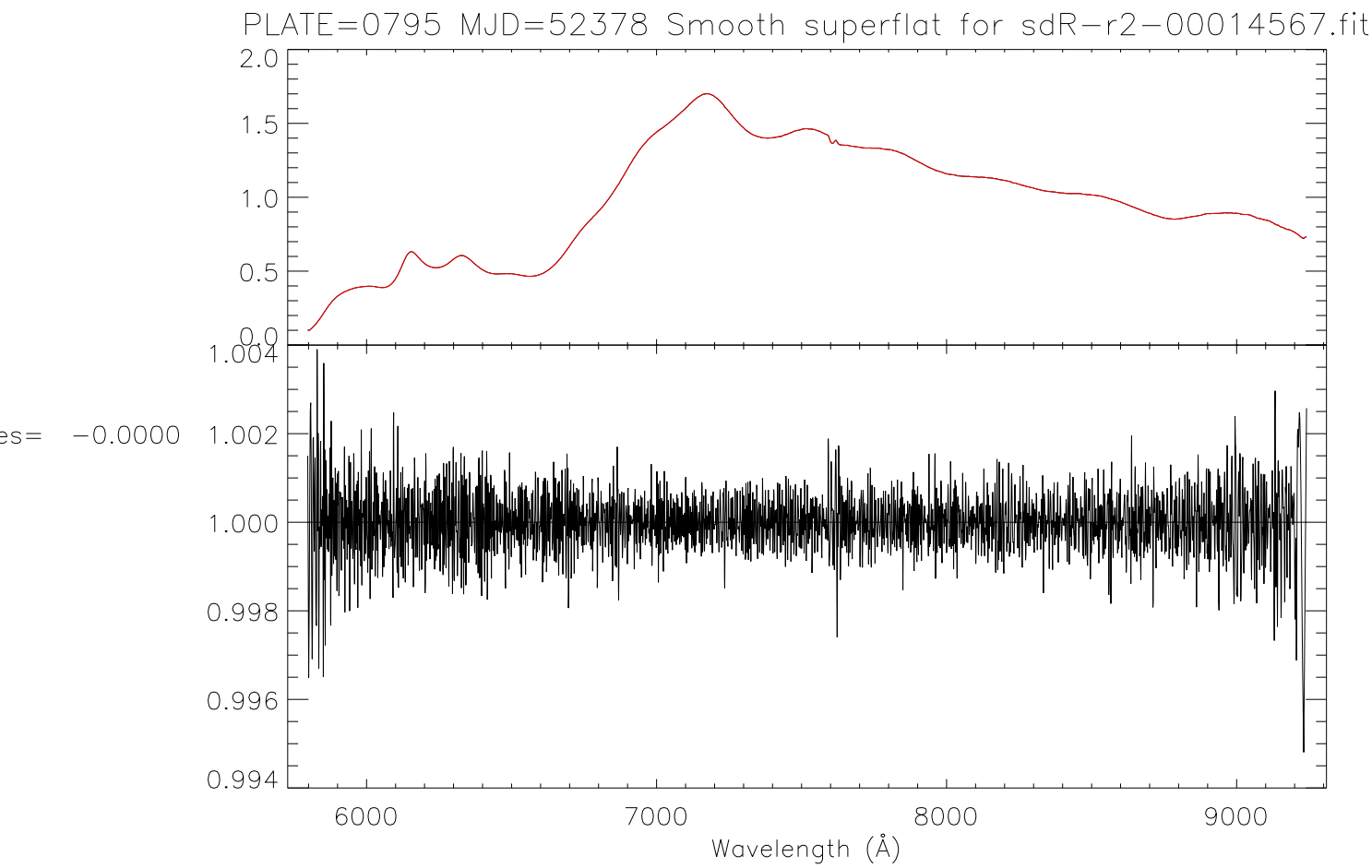

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

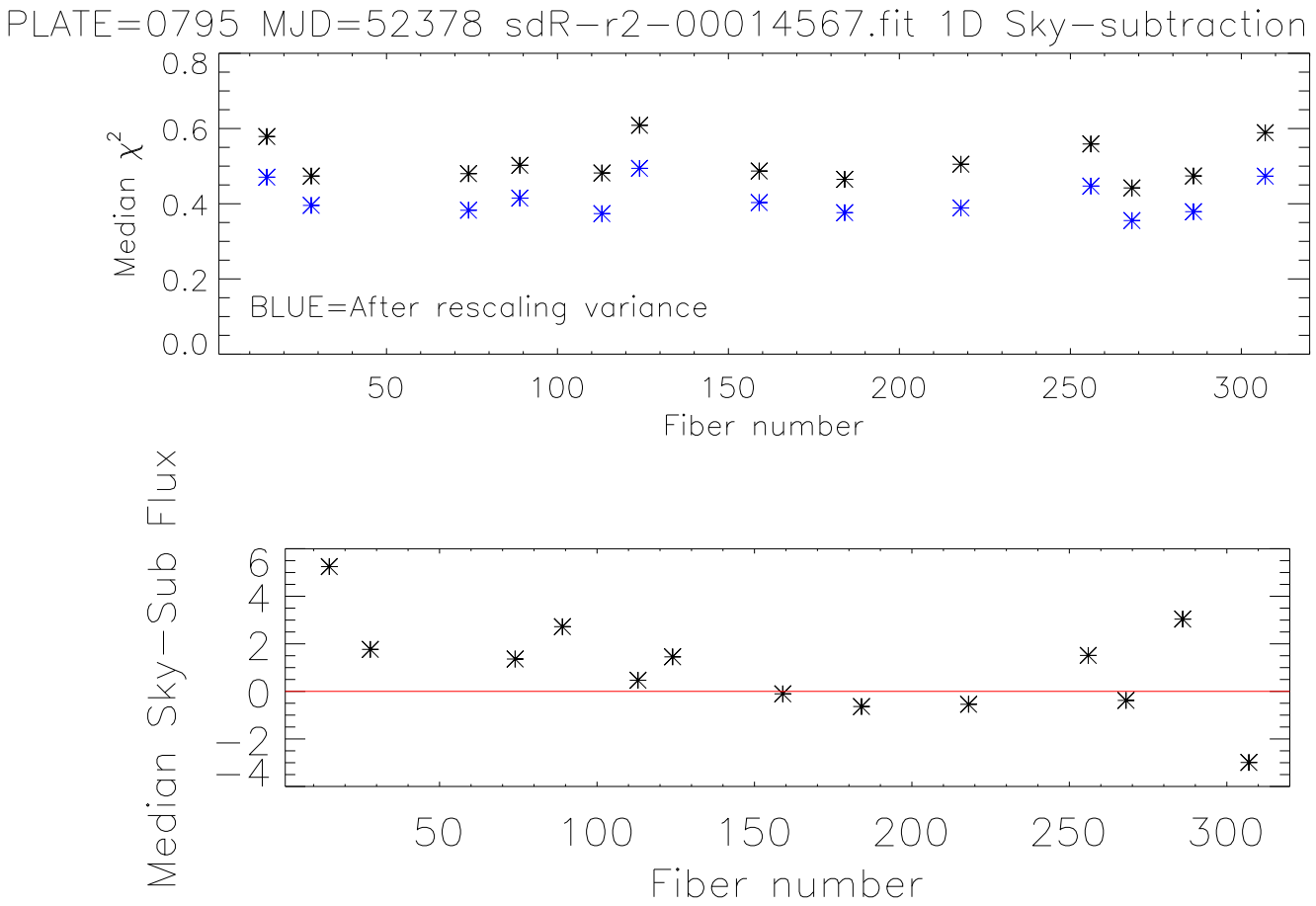

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

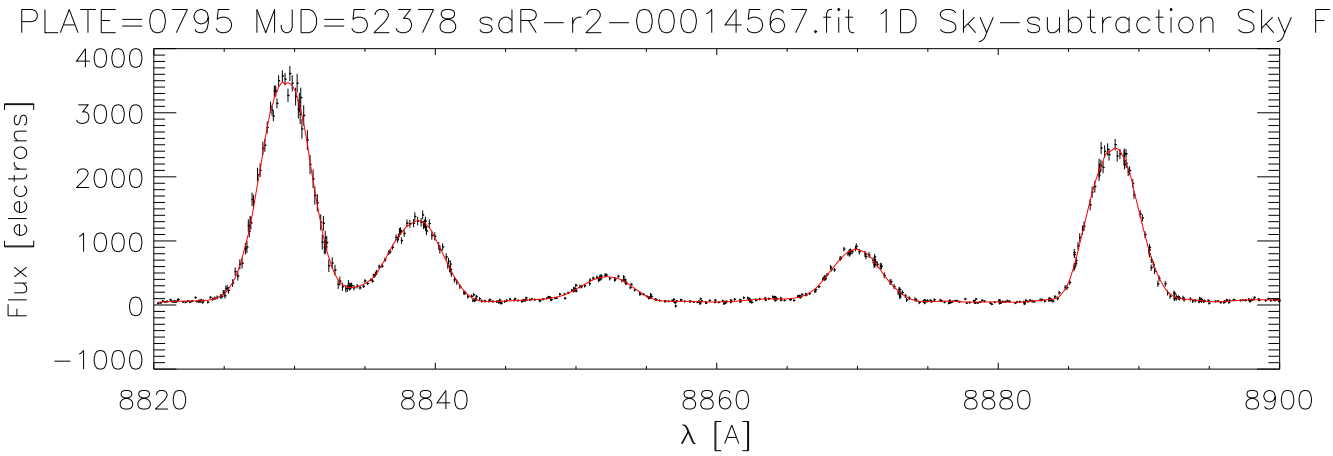

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

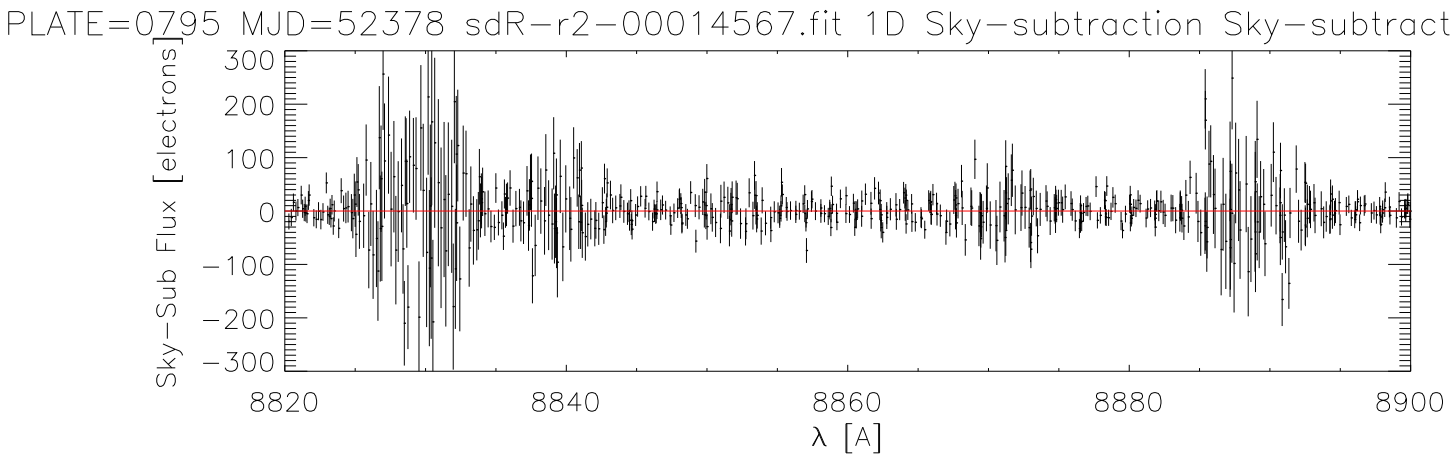

6300.3040
mfib1 16
mfib2 16
stdev 0.012
extra 0.009
6363.7760
mfib1 16
mfib2 16
stdev 0.010
extra 0.009
6553.6100
mfib1 16
mfib2 16
stdev 0.010
extra 0.010
6923.2100
mfib1 16
mfib2 16
stdev 0.008
extra 0.033
6949.0300
mfib1 16
mfib2 16
stdev 0.016
extra 0.038
7571.7500
mfib1 16
mfib2 16
stdev 0.011
extra 0.031
7794.1200
mfib1 15
mfib2 16
stdev 0.002
extra 0.027
7821.5100
mfib1 15
mfib2 16
stdev 0.006
extra 0.023
8399.1600
mfib1 16
mfib2 16
stdev 0.009
extra 0.019
8430.1700
mfib1 16
mfib2 16
stdev 0.006
extra 0.020
8885.8300
mfib1 16
mfib2 16
stdev 0.009
extra 0.025
8919.6100
mfib1 16
mfib2 16
stdev 0.009
extra 0.020
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

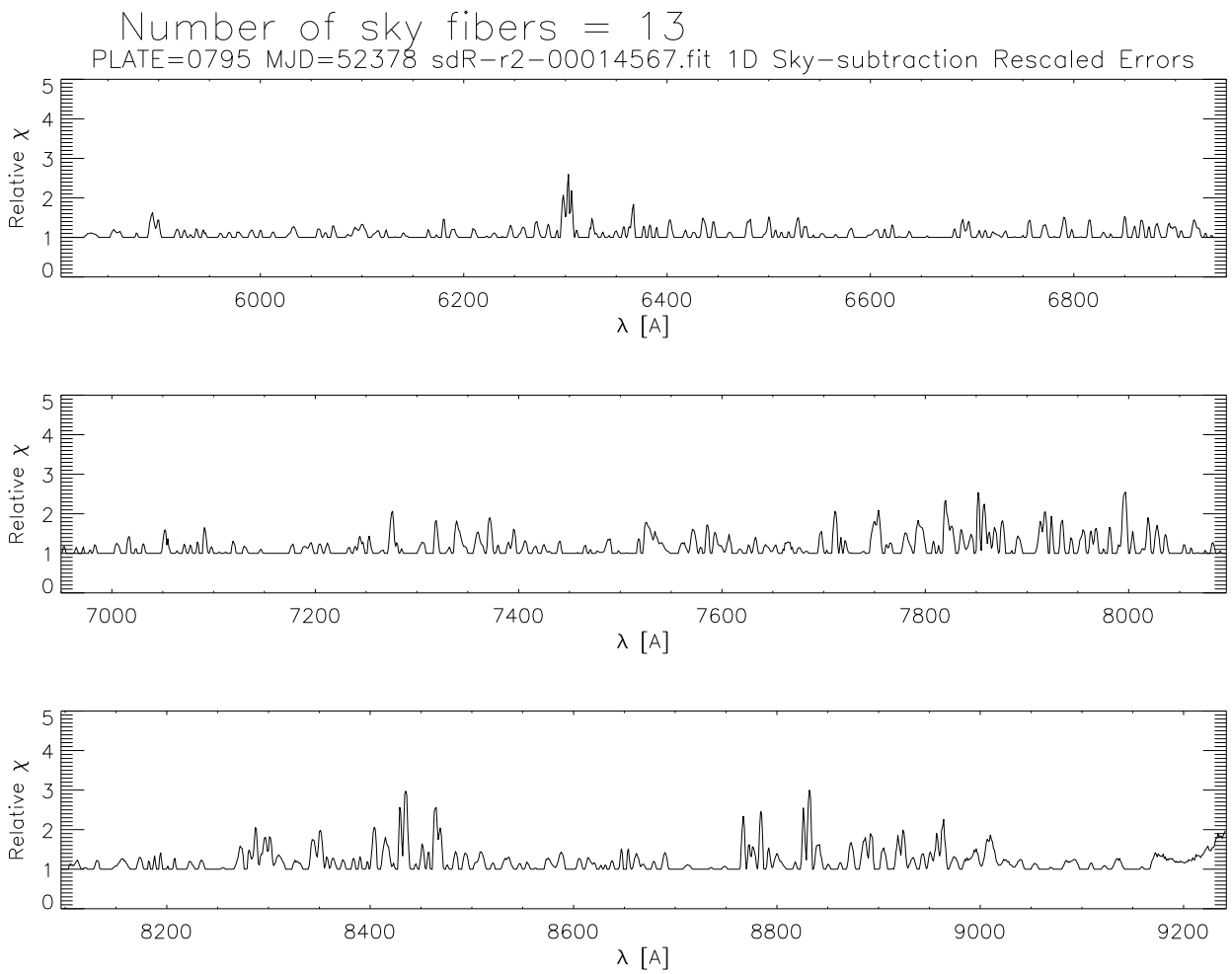

sky shift, pixels
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

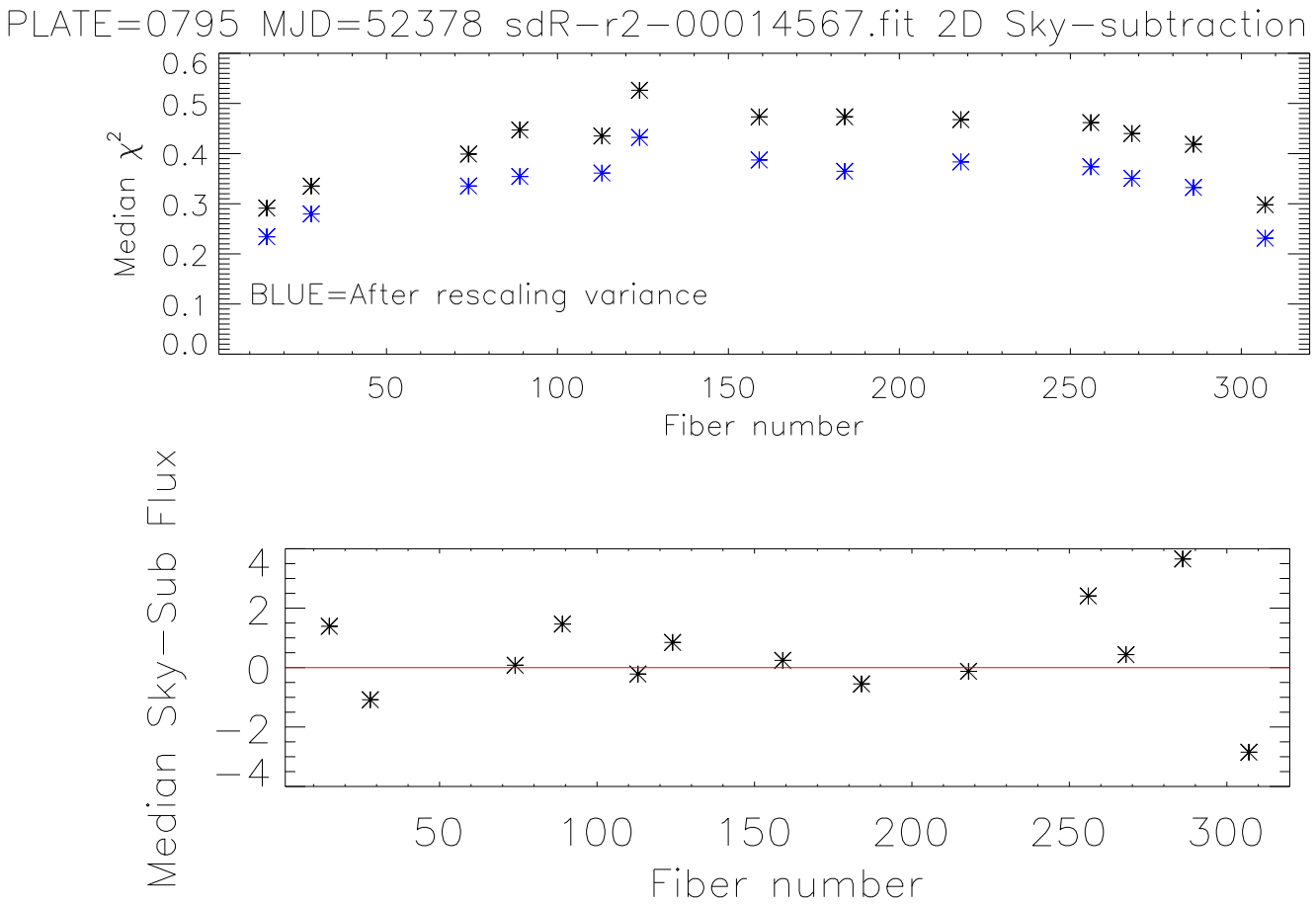

PLATE=0795 MJD=52378 Smooth superflat for sdR-r2-00014567.fit
2.0
1.5
1.0
0.5
0.0
es= −0.0000
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

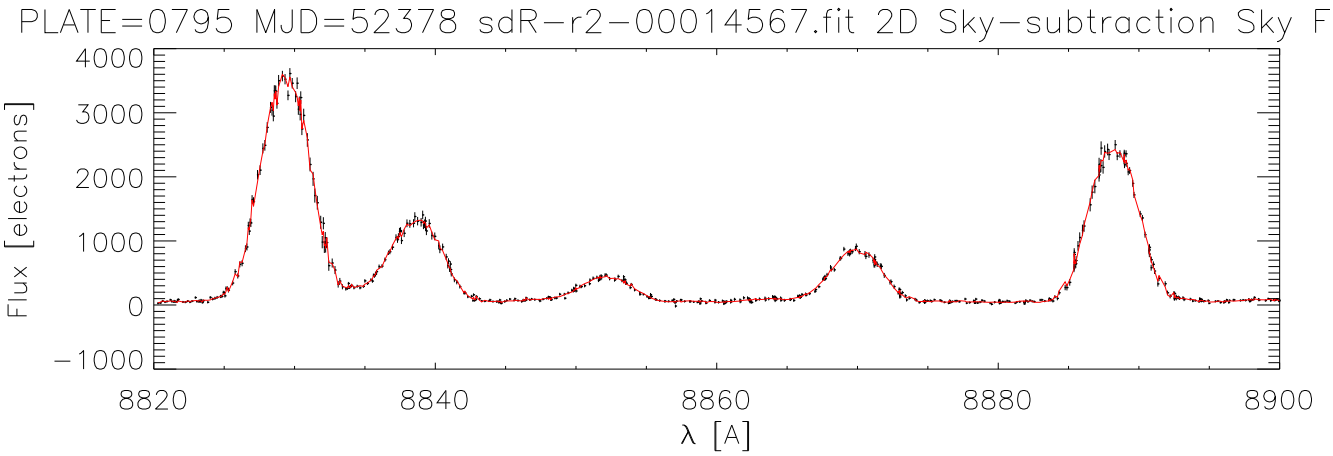

PLATE=0795 MJD=52378 sdR-r2-00014567.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

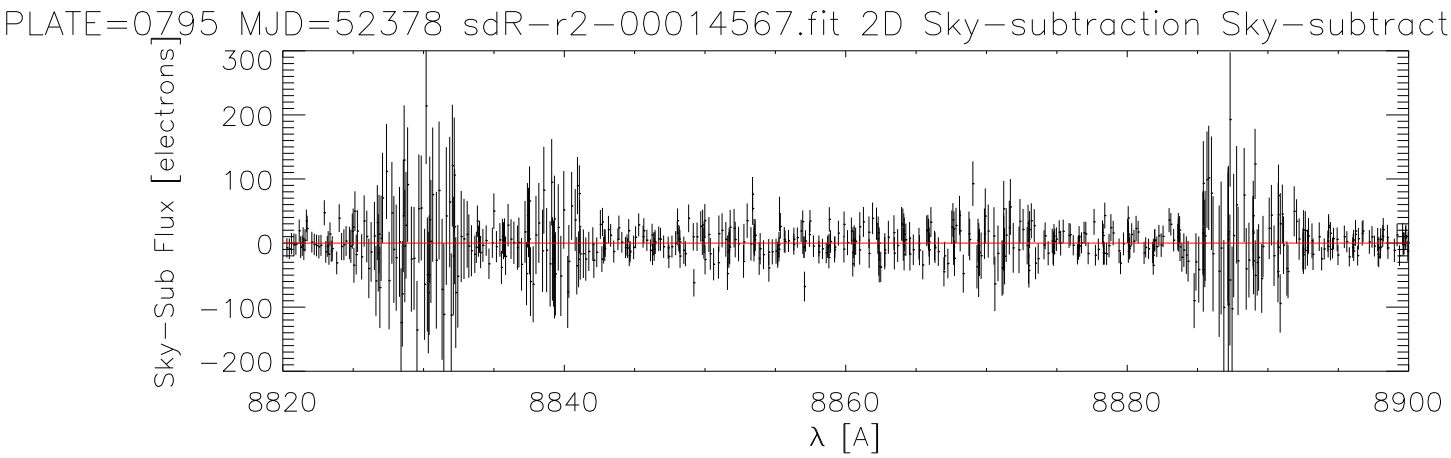

PLATE=0795 MJD=52378 sdR-r2-00014567.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

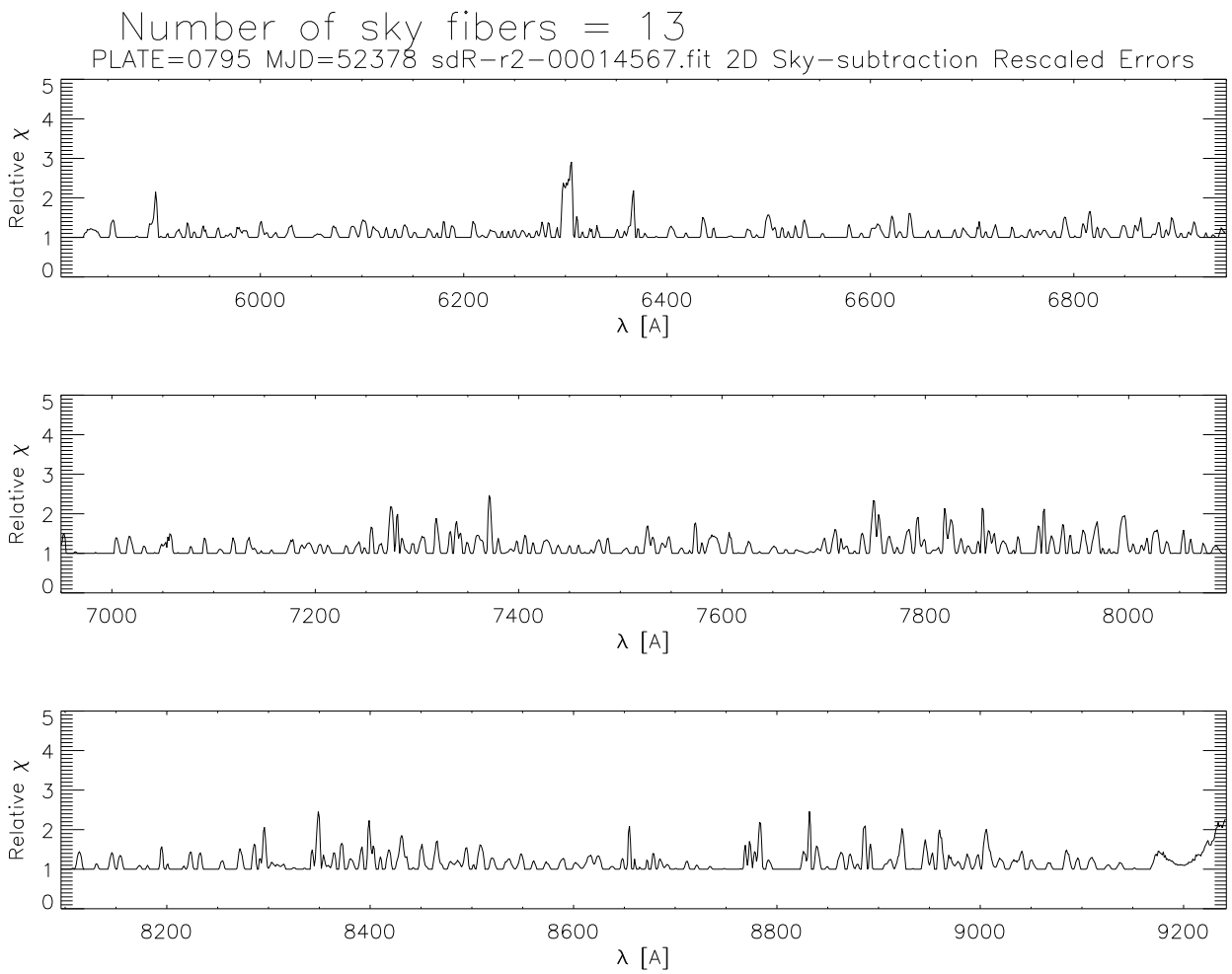

PLATE=0795 MJD=52378 sdR-r2-00014567.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

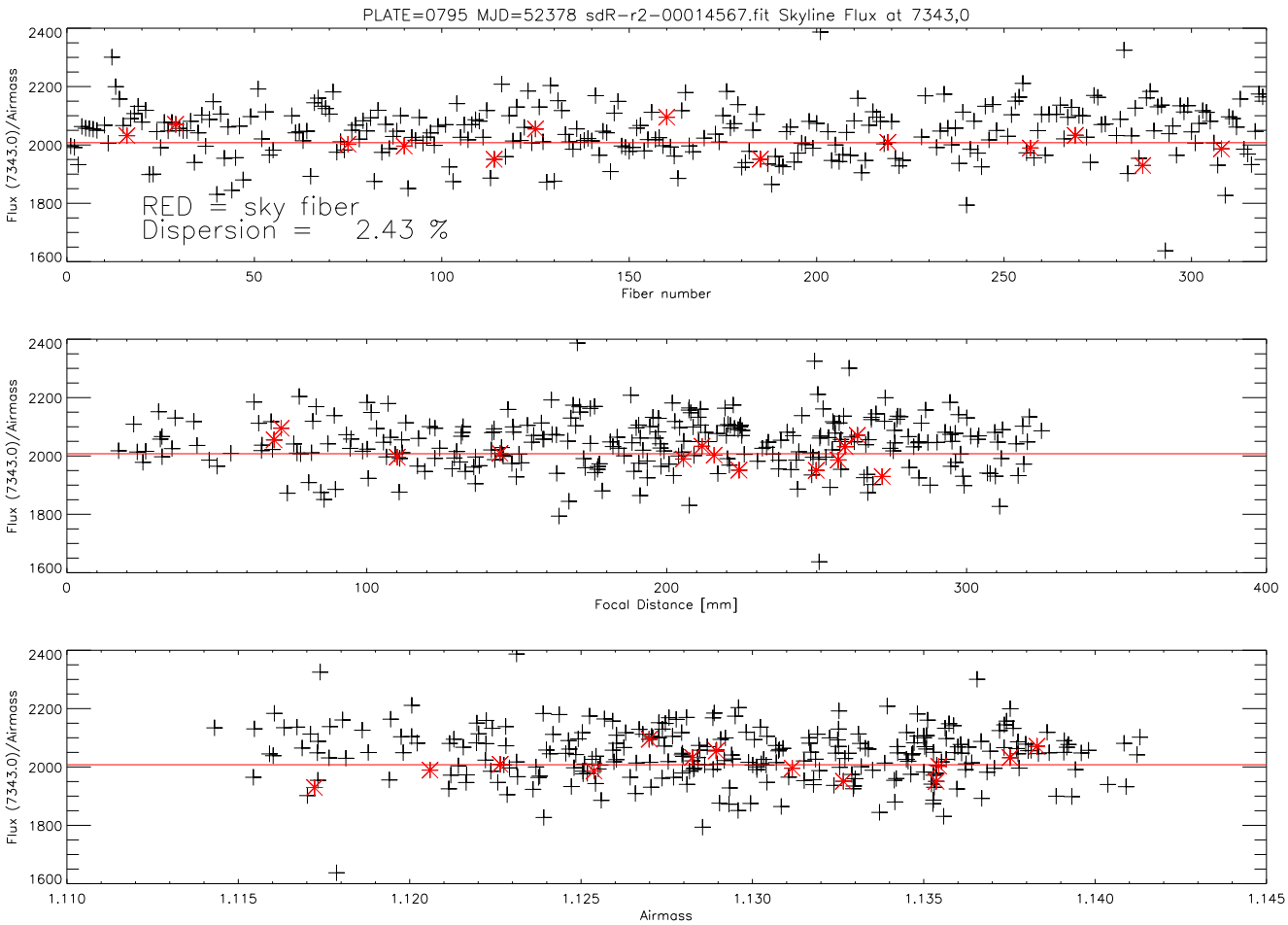

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014567.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

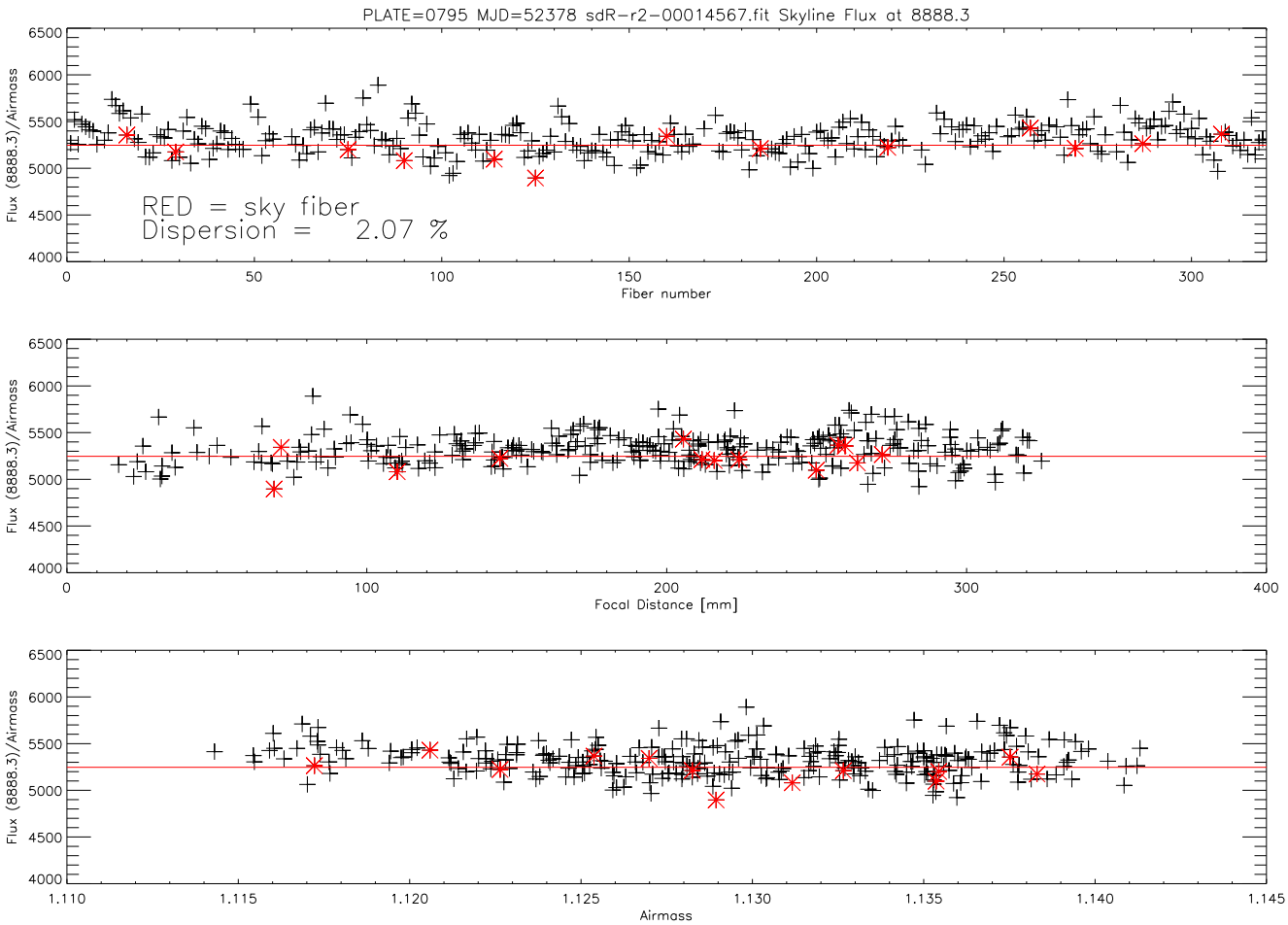

PLATE=0795 MJD=52378 sdR-r2-00014567.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

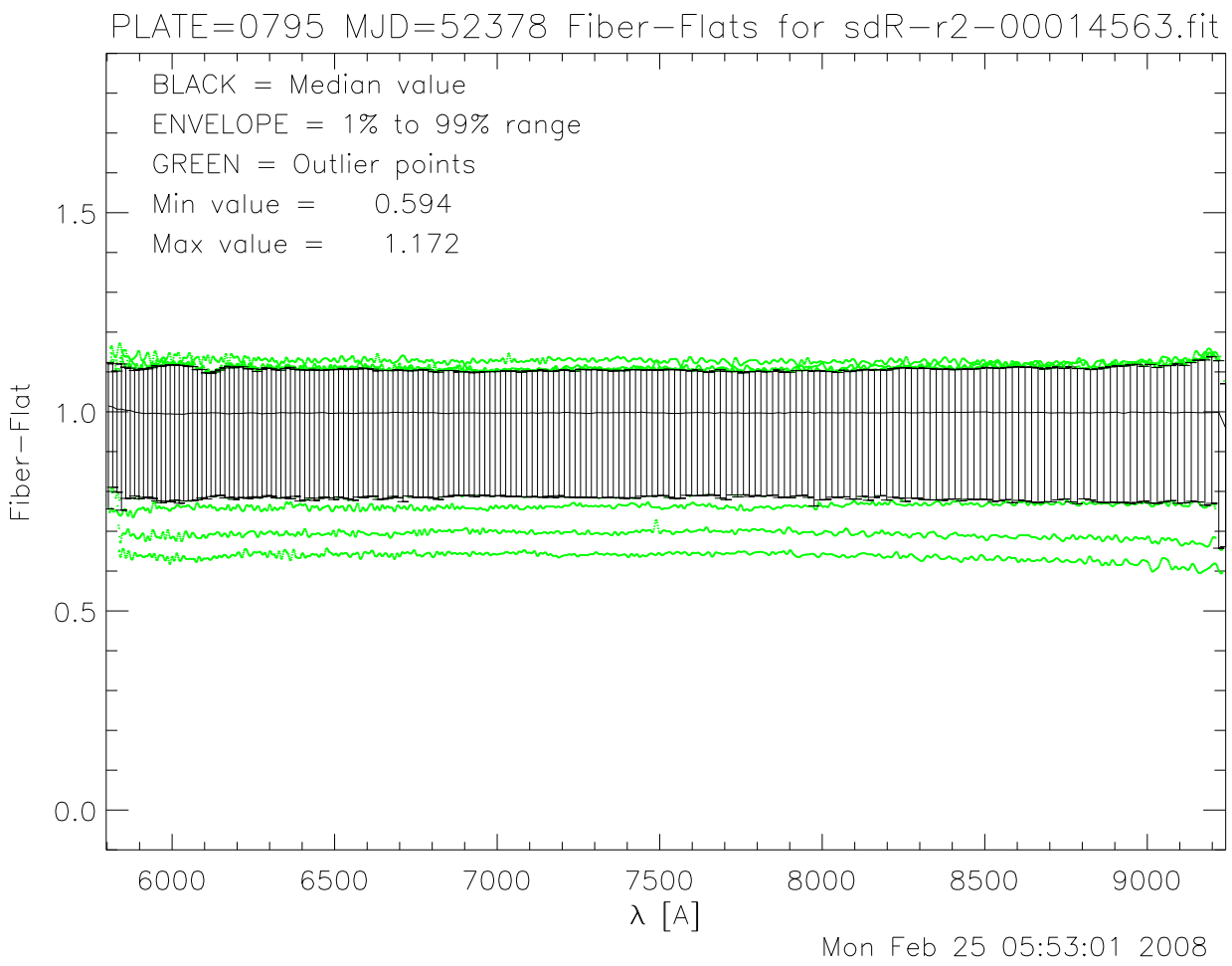

PLATE=0795 MJD=52378 sdR-r2-00014567.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

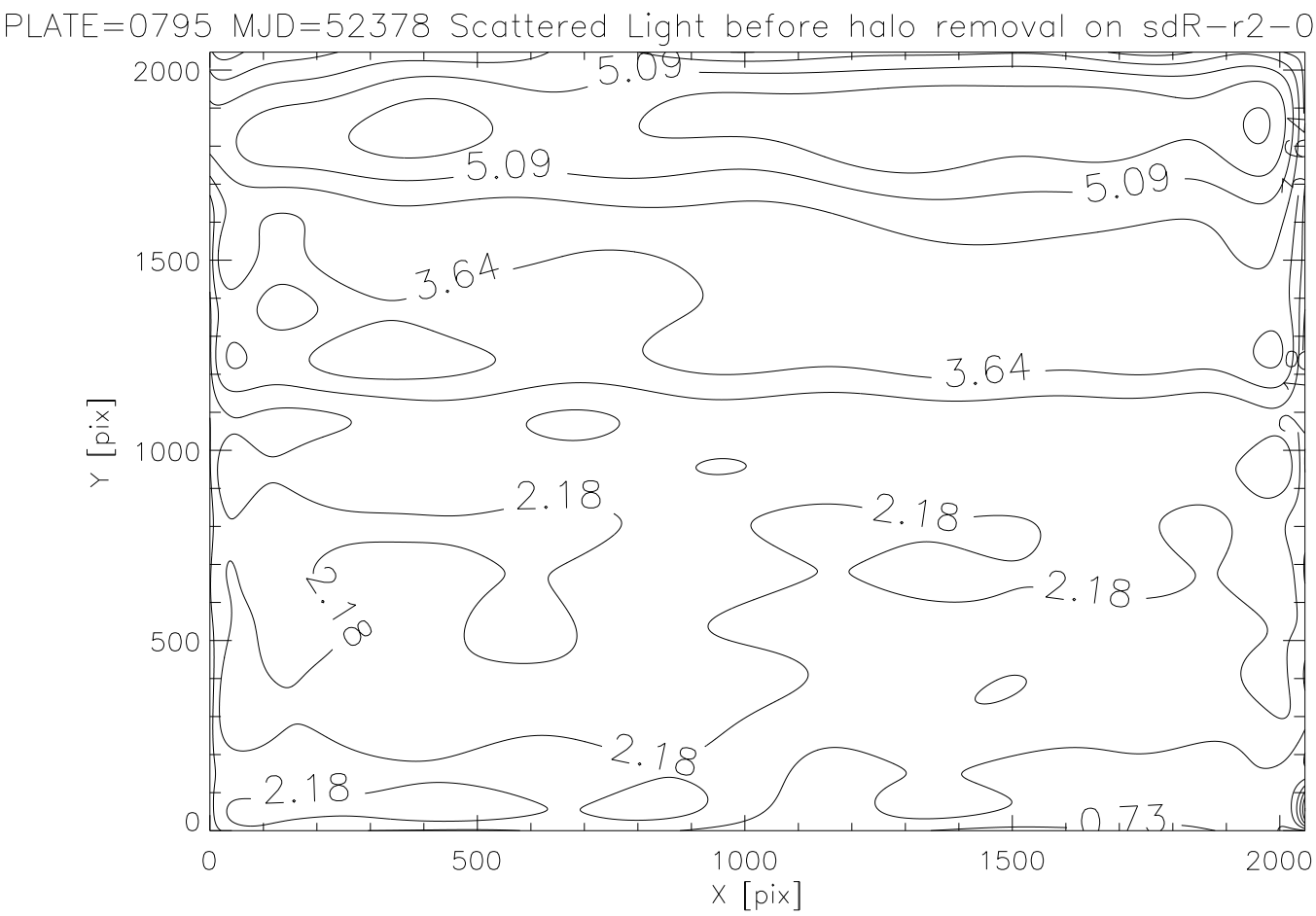

PLATE=0795 MJD=52378 sdR-r2-00014567.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

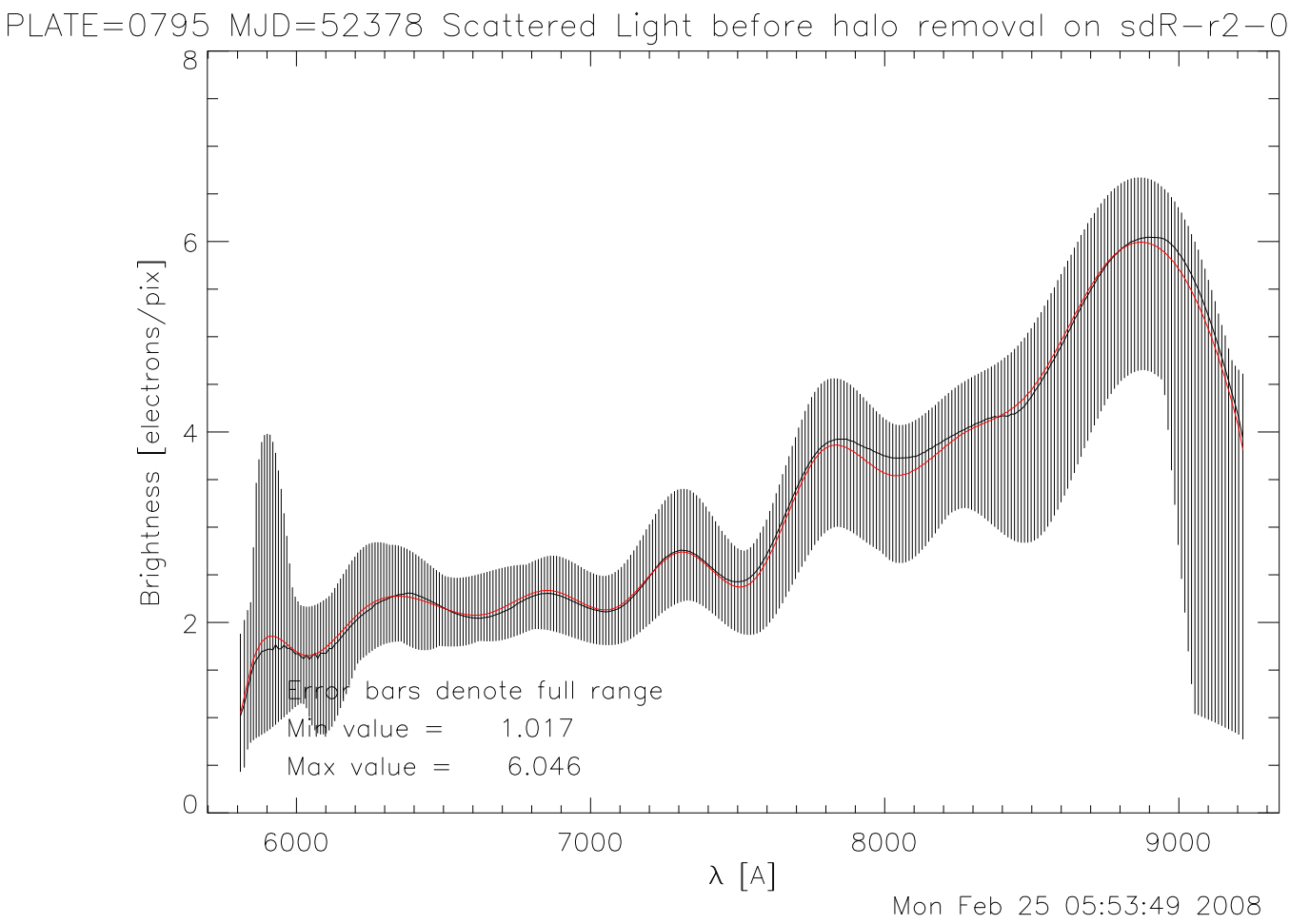

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014567.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

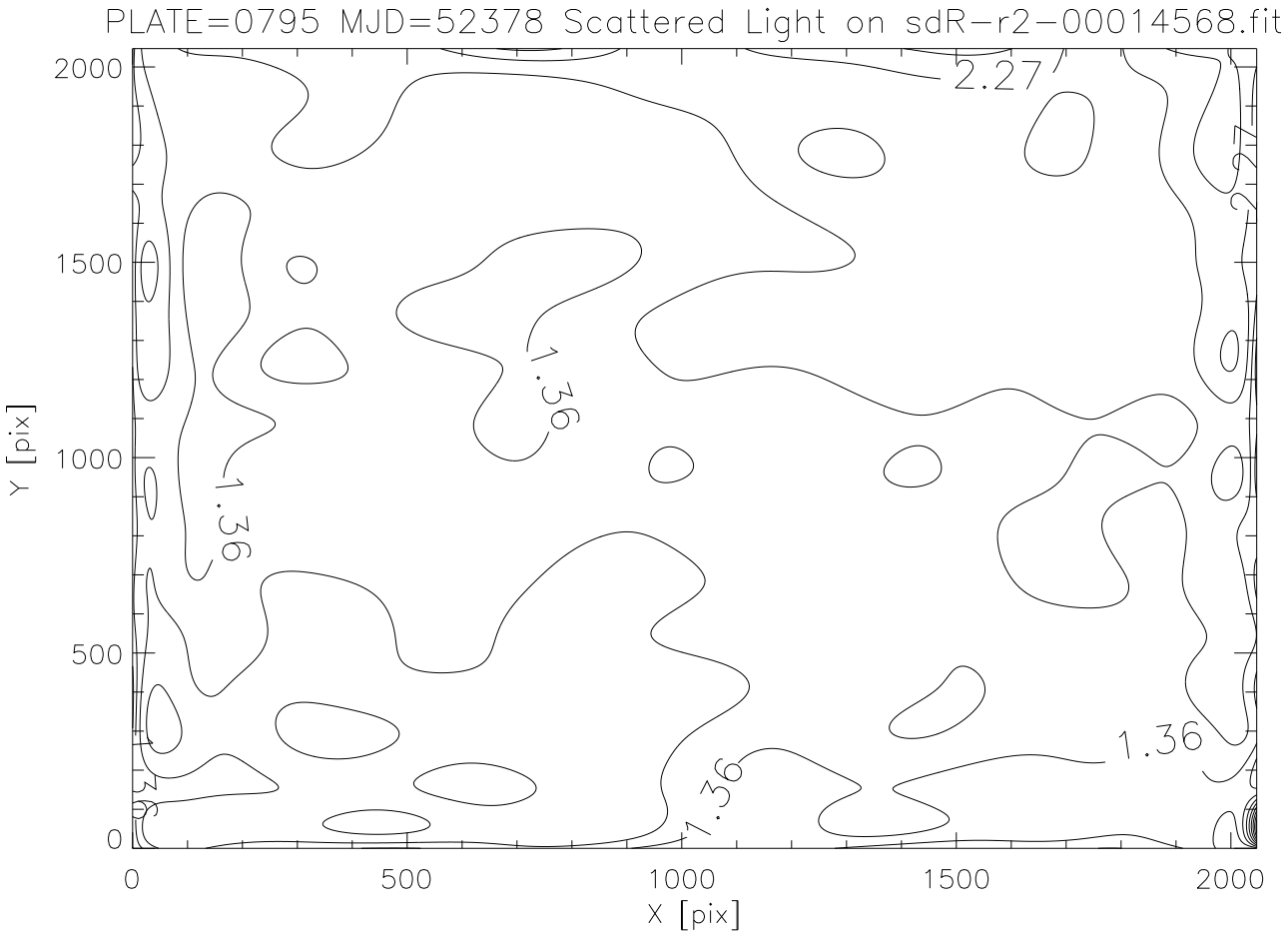

PLATE=0795 MJD=52378 sdR-r2-00014567.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

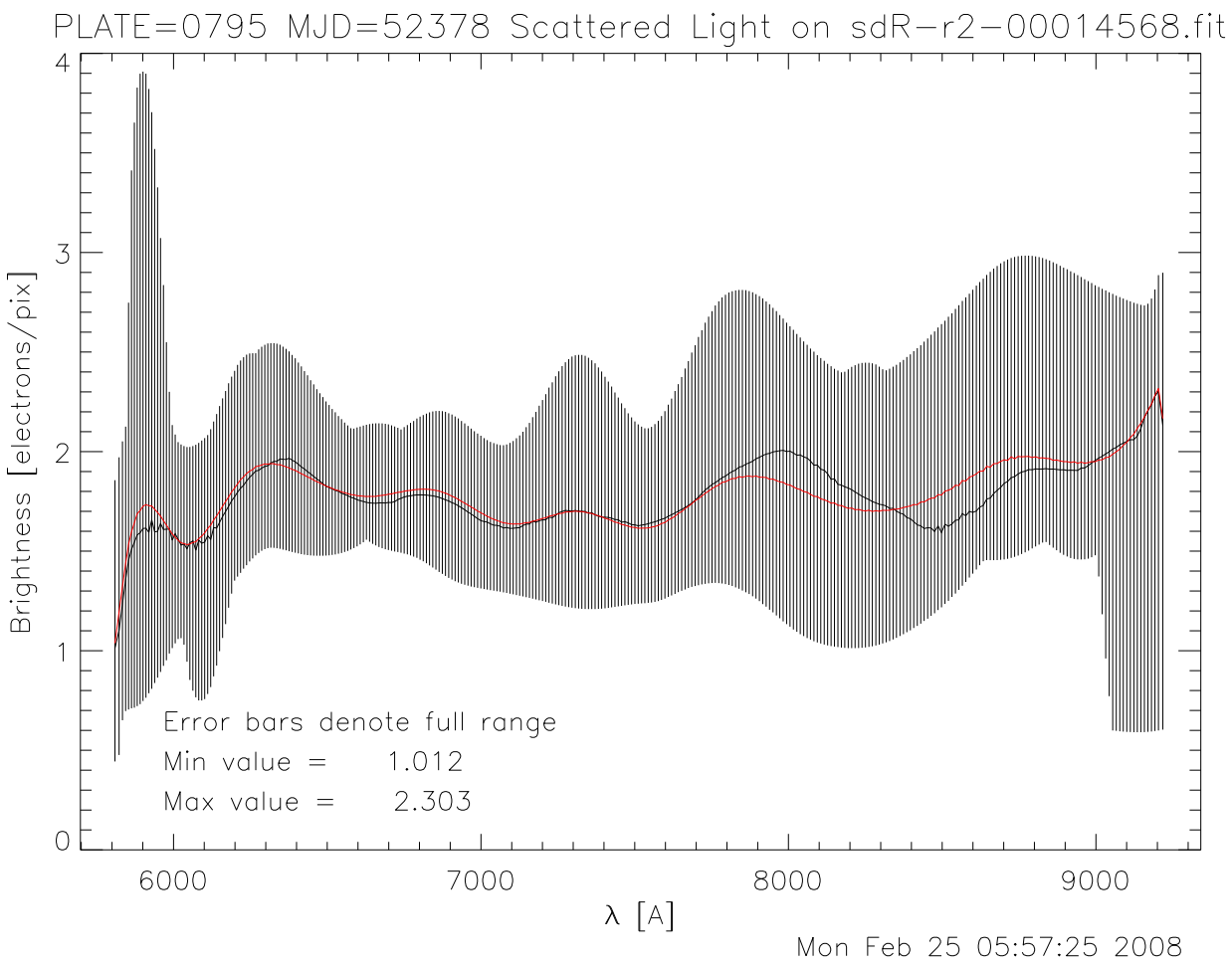

PLATE=0795 MJD=52378 sdR-r2-00014567.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.07 %
Fiber number
Focal Distance [mm]
Airmass

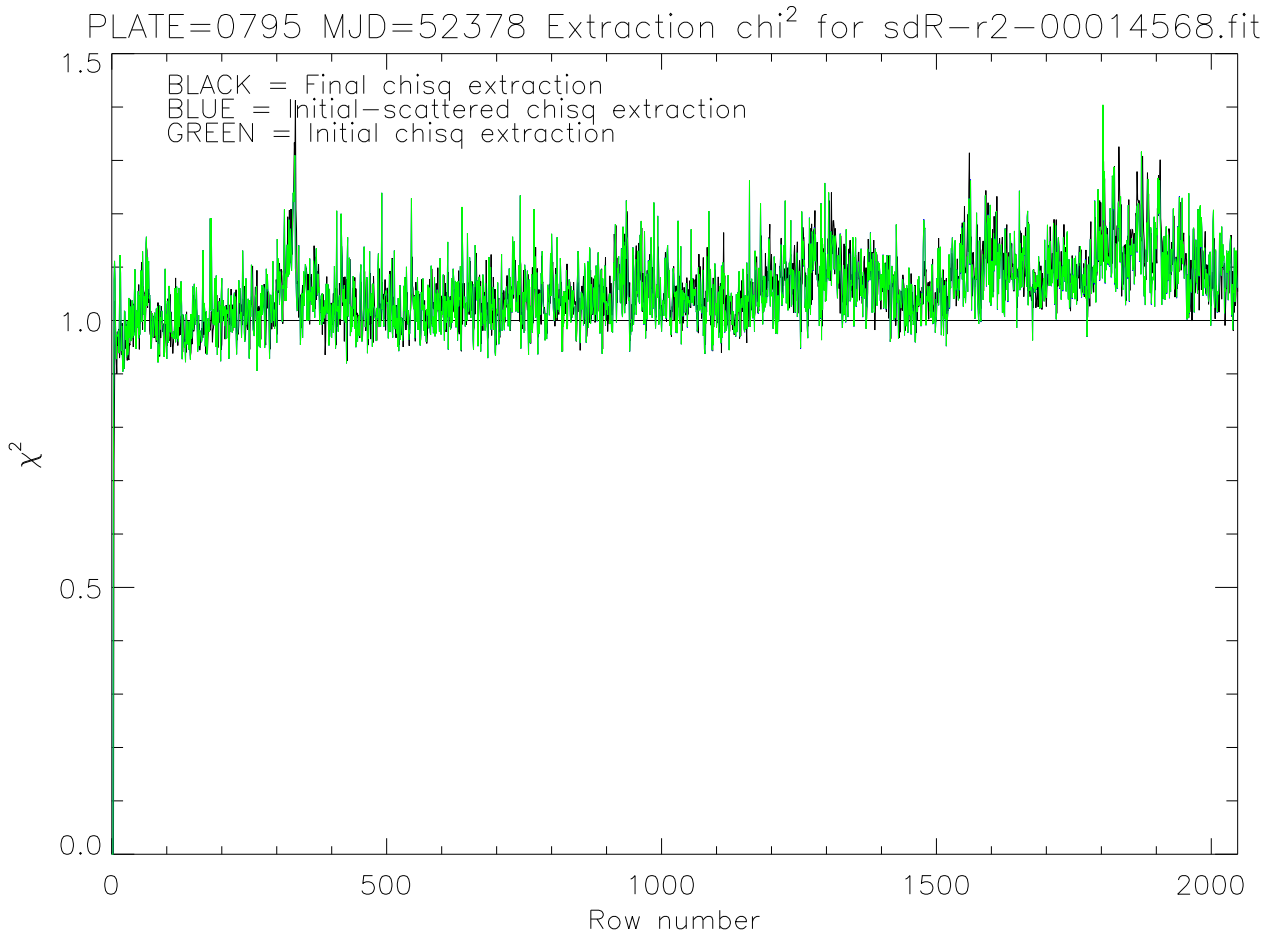

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.594
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 05:53:01 2008

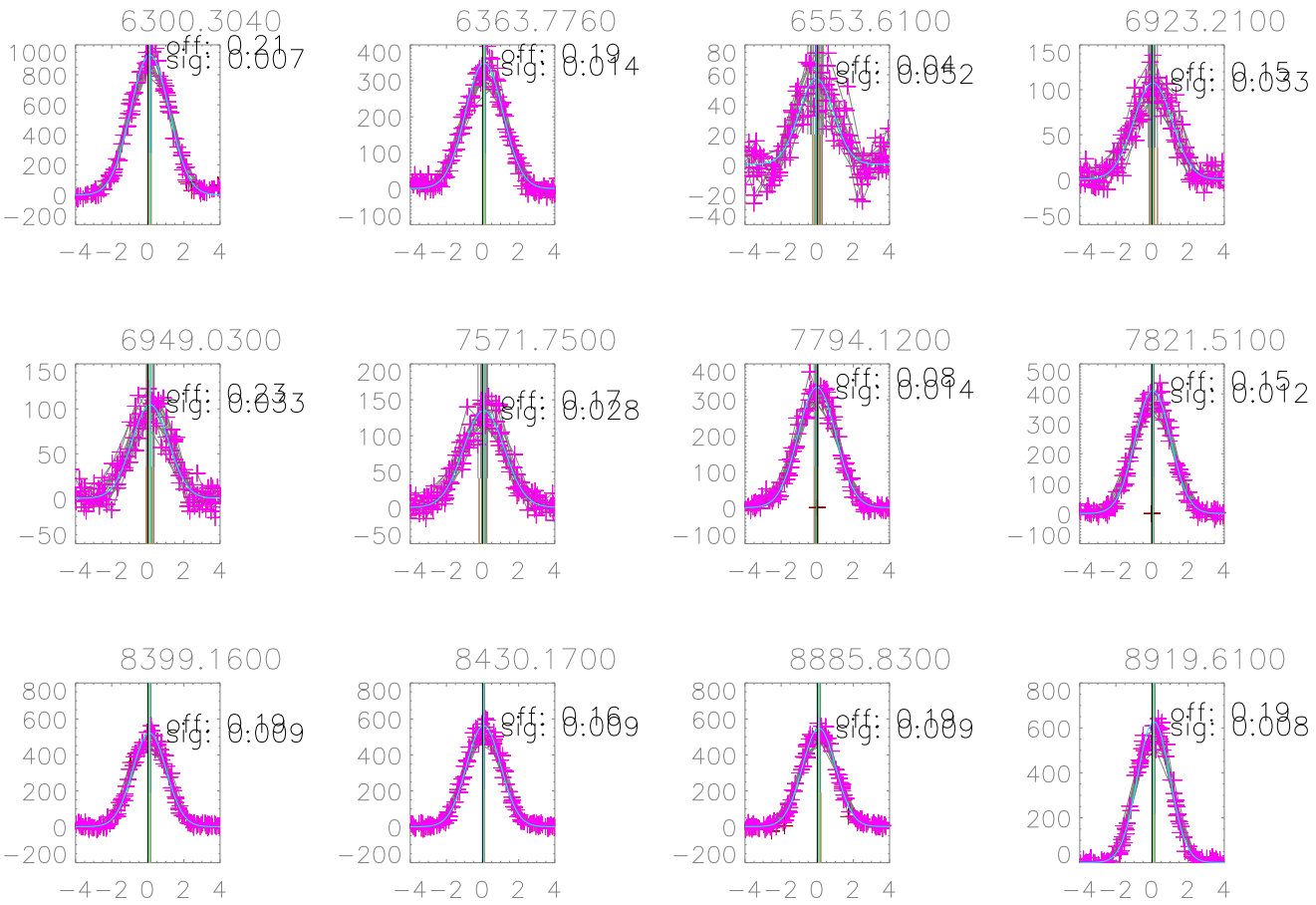

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014568.fi
5.09
5.09
5.09
3.64
3.64
2.18
2.18
2.18
2.18
2.18
2.18
0.73
Y [pix]
X [pix]
0
500
1000
1500
2000

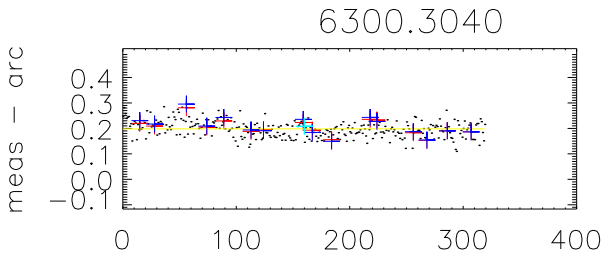

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014568.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.017
Max value = 6.046
Mon Feb 25 05:53:49 2008

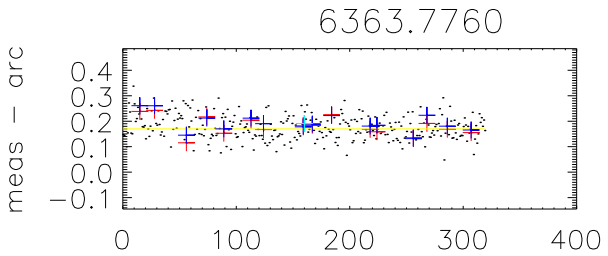

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014568.fit
2.27
1.36
1.36
1.36
1.36
0
0
0
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000

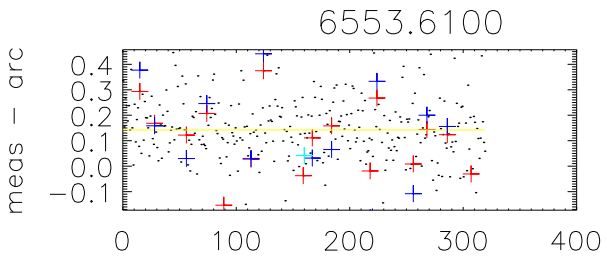

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014568.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.012
Max value = 2.303
Mon Feb 25 05:57:25 2008

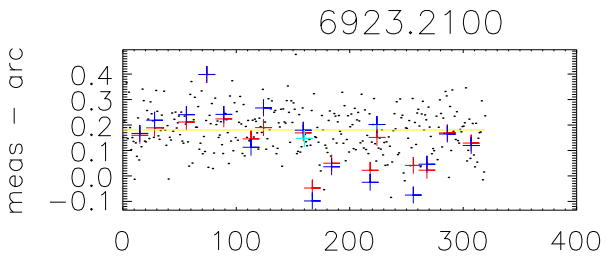

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r2−00014568.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
1.5
1.0
0.5
0.0
χ^2
0
500
1000
1500
2000
Row number

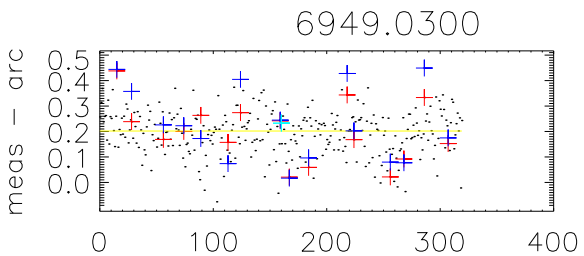

6300.3040
off: 0.21
sig: 0.007
6363.7760
off: 0.19
sig: 0.014
6553.6100
off: 0.04
sig: 0.052
6923.2100
off: 0.15
sig: 0.033
6949.0300
off: 0.23
sig: 0.033
7571.7500
off: 0.17
sig: 0.028
7794.1200
off: 0.08
sig: 0.014
7821.5100
off: 0.15
sig: 0.012
8399.1600
off: 0.19
sig: 0.009
8430.1700
off: 0.16
sig: 0.009
8885.8300
off: 0.19
sig: 0.009
8919.6100
off: 0.19
sig: 0.008

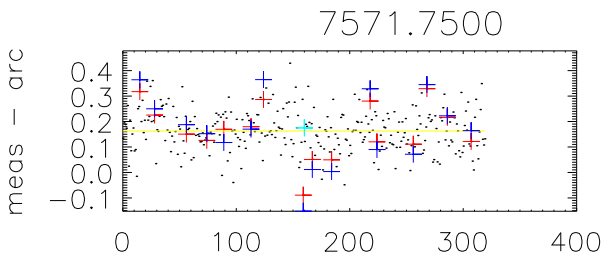

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

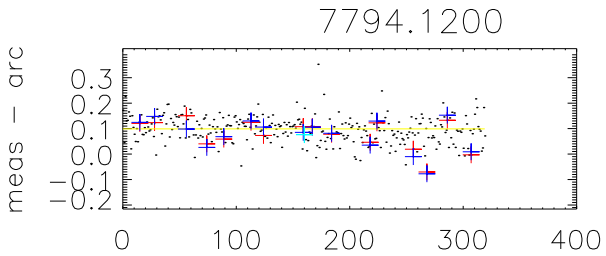

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

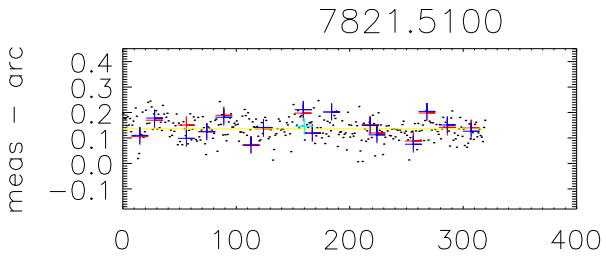

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

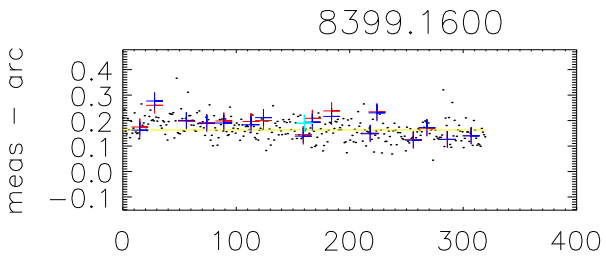

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

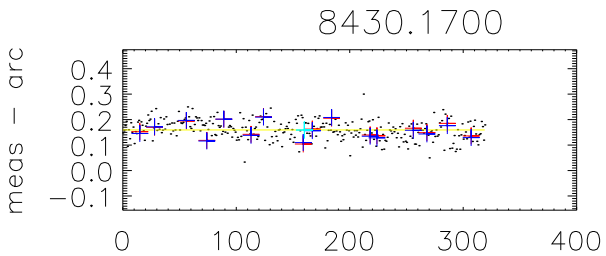

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

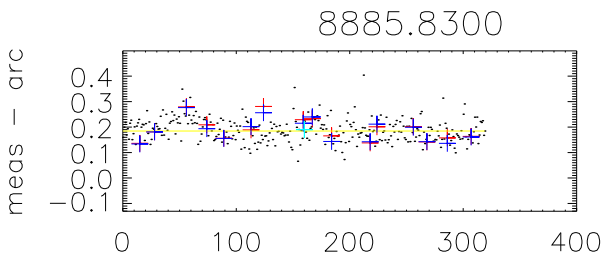

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

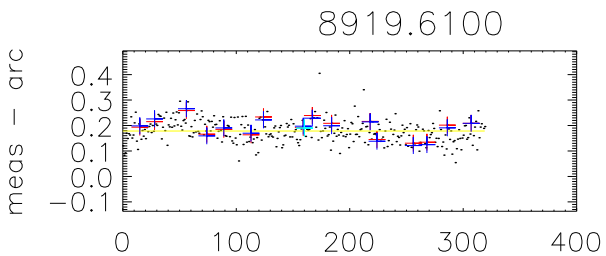

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

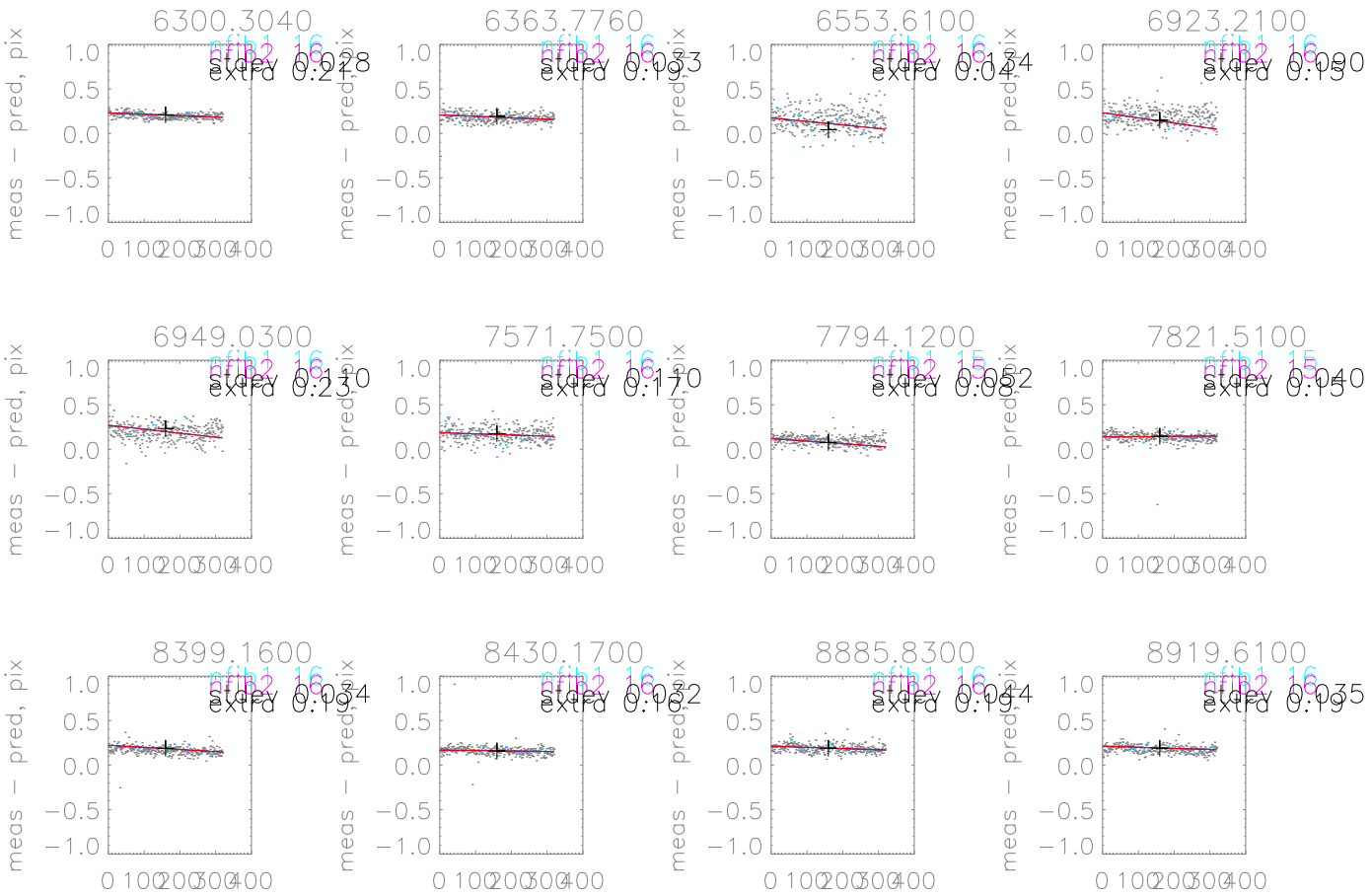

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

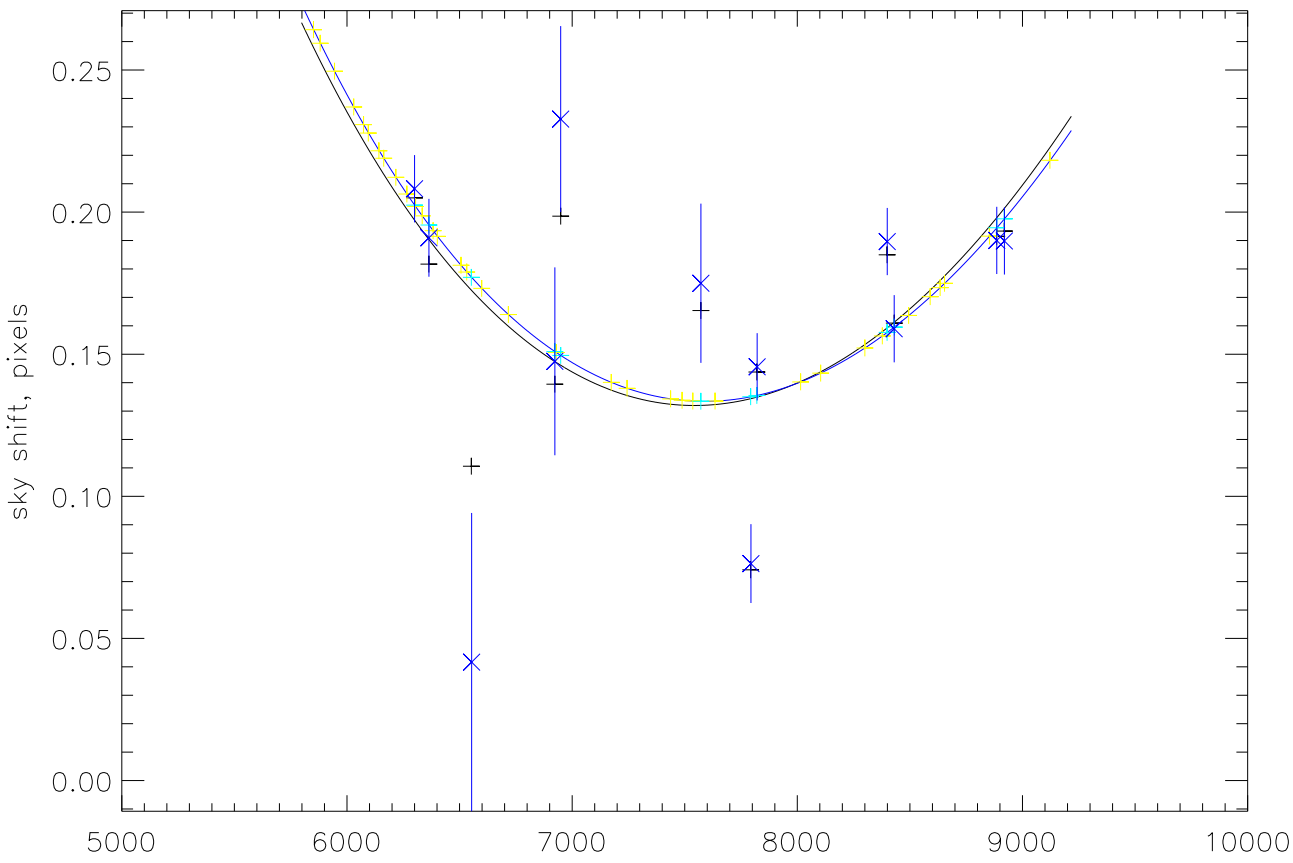

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

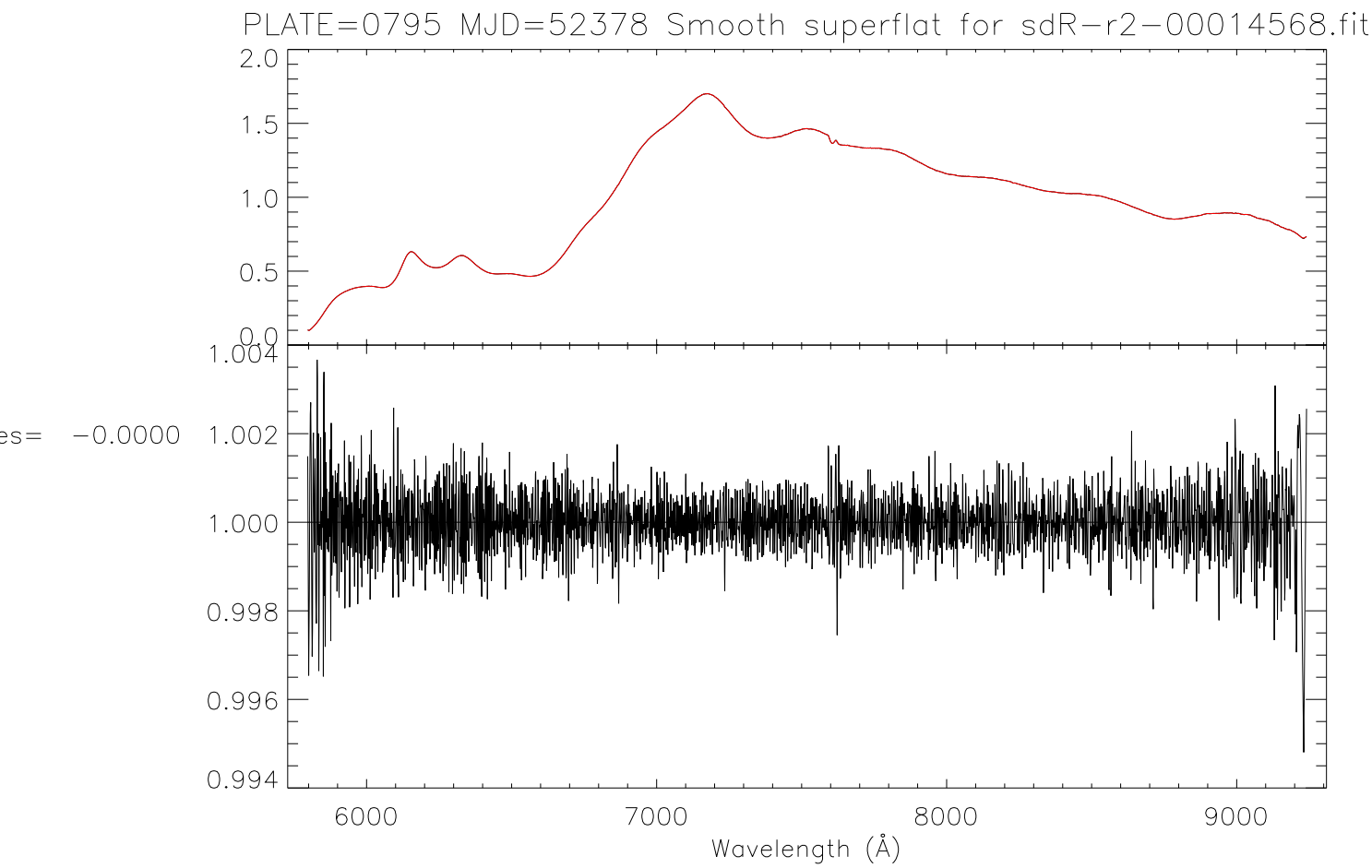

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

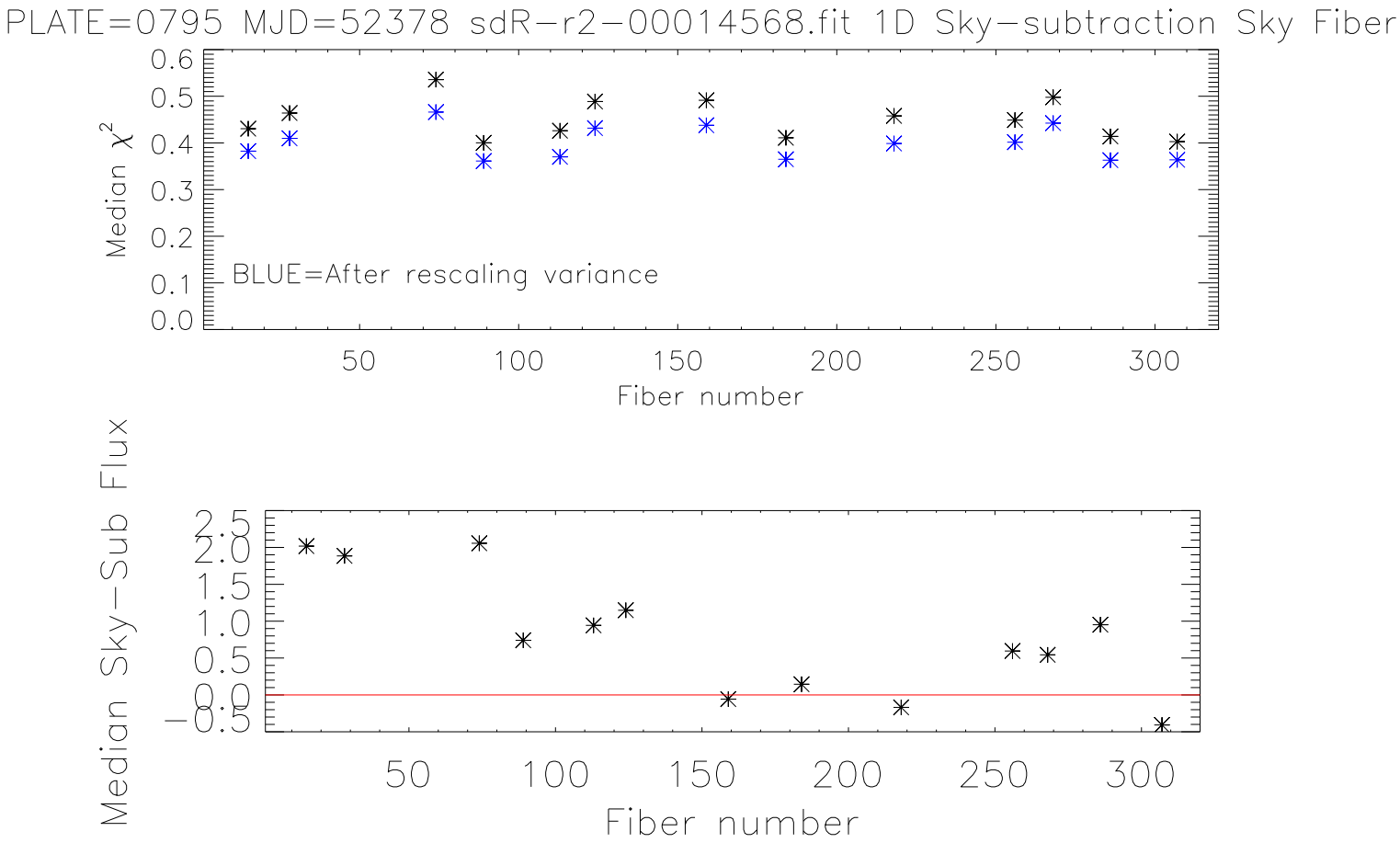

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

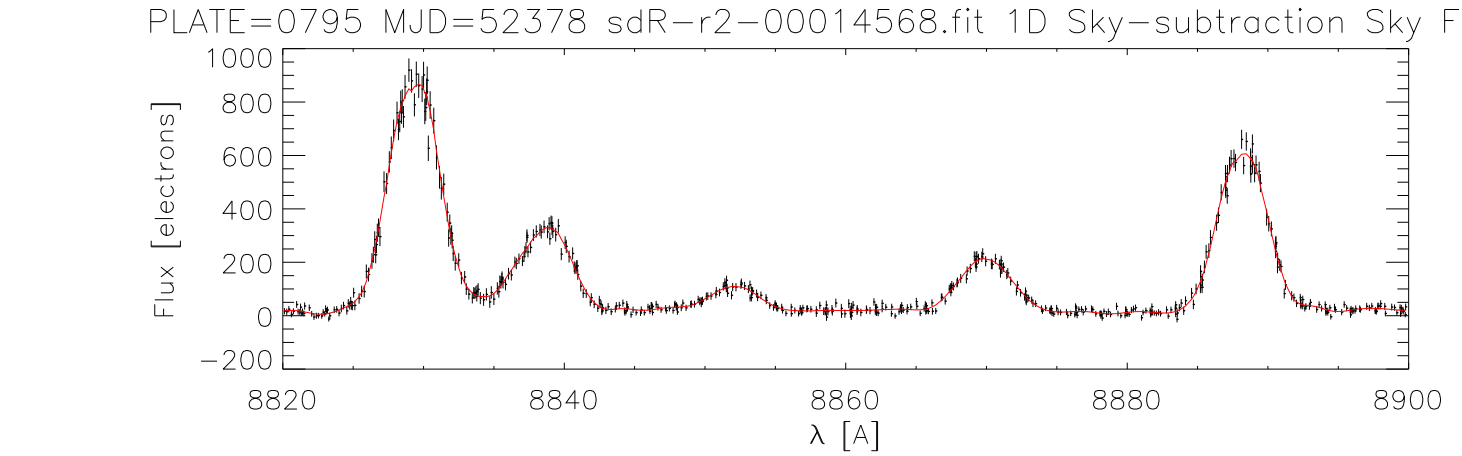

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

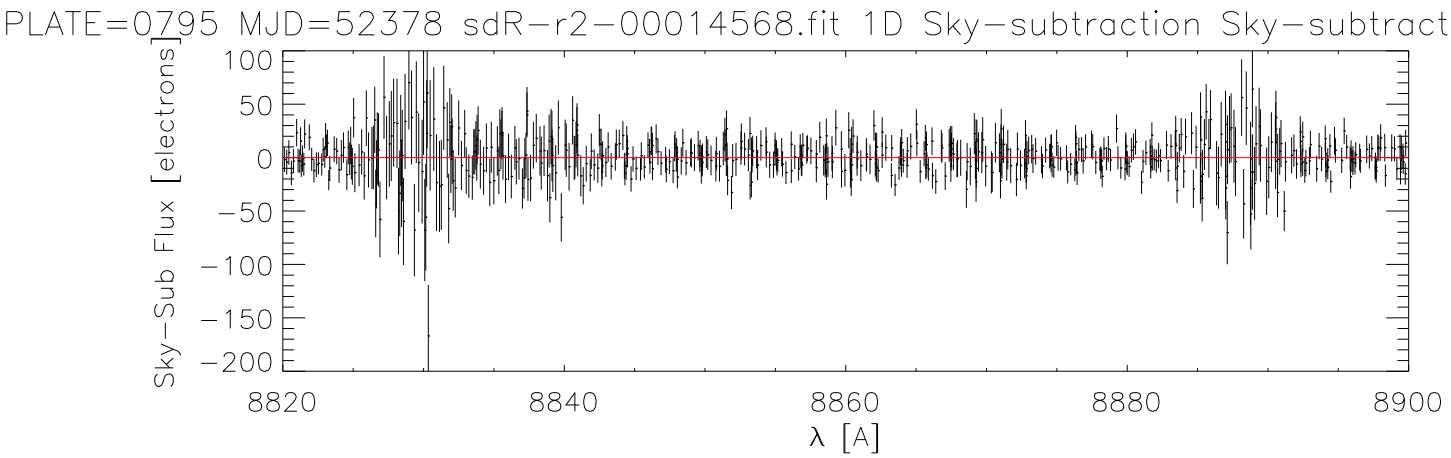

6300.3040
stdev 0.028
extra 0.21
6363.7760
stdev 0.033
extra 0.19
6553.6100
stdev 0.134
extra 0.04
6923.2100
stdev 0.090
extra 0.15
6949.0300
stdev 0.110
extra 0.23
7571.7500
stdev 0.170
extra 0.17
7794.1200
stdev 0.052
extra 0.08
7821.5100
stdev 0.040
extra 0.15
8399.1600
stdev 0.034
extra 0.19
8430.1700
stdev 0.032
extra 0.16
8885.8300
stdev 0.044
extra 0.19
8919.6100
stdev 0.035
extra 0.19
meas − pred, pix
mfib2 16
mfib1 16

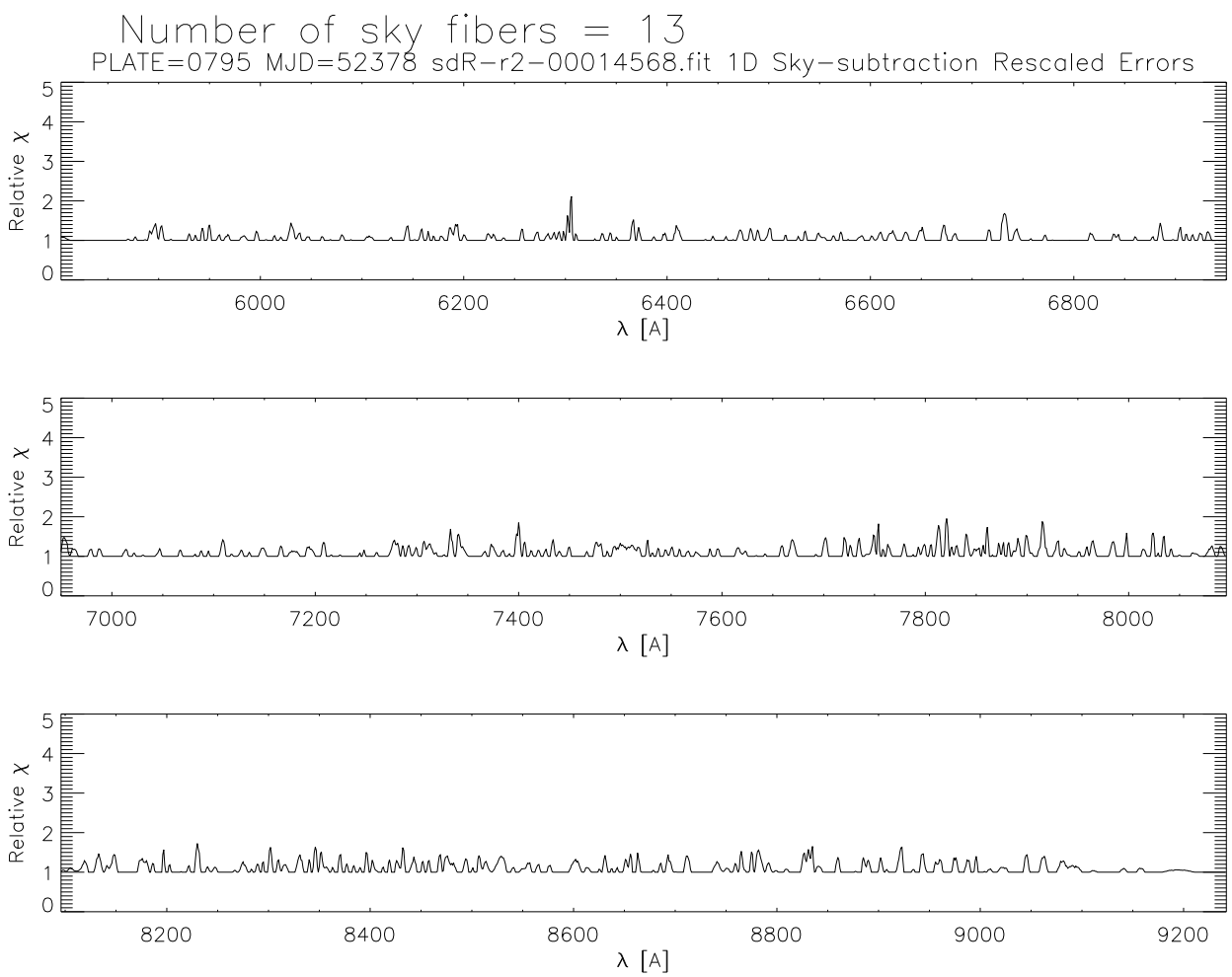

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
5000
6000
7000
8000
9000
10000

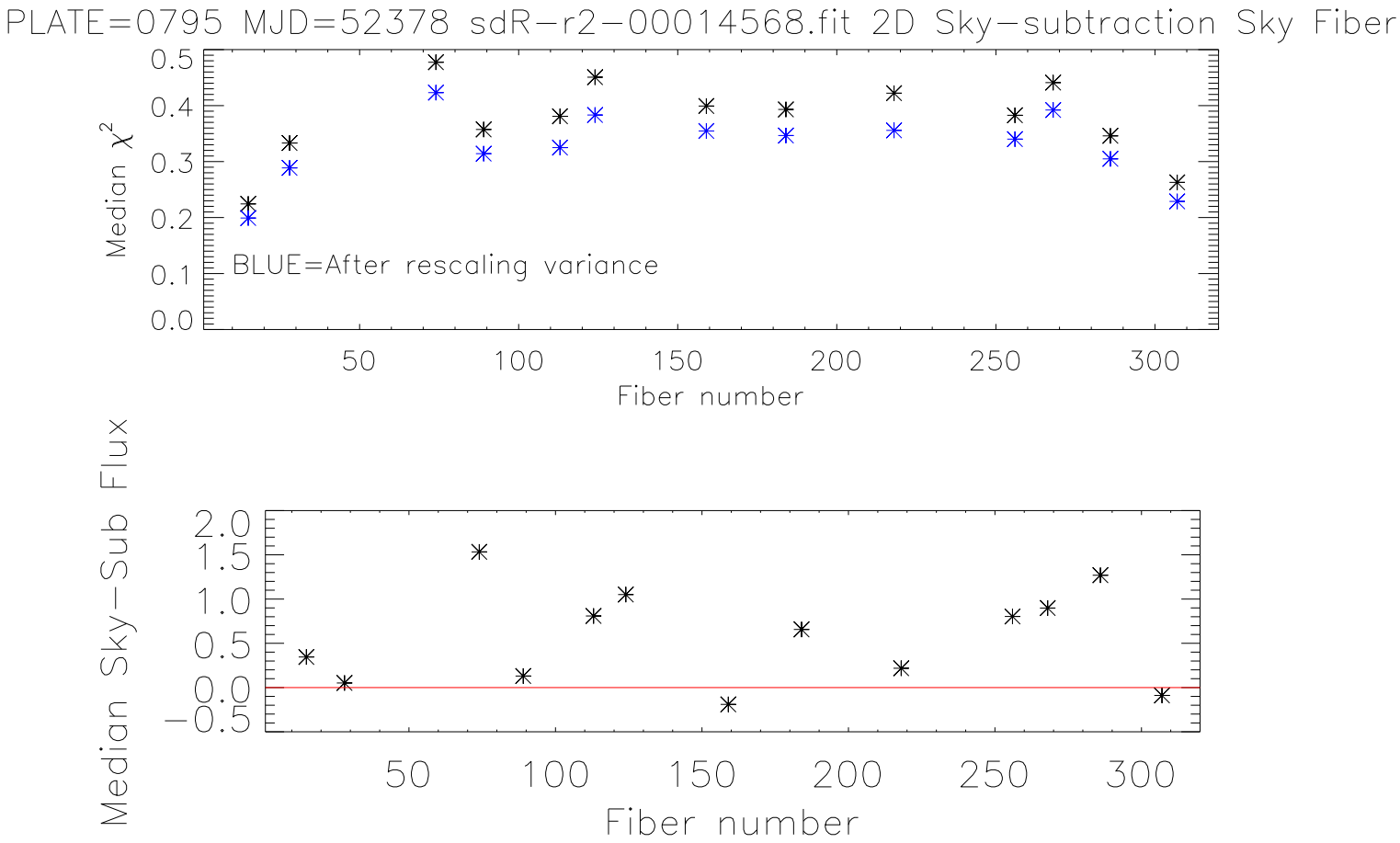

PLATE=0795 MJD=52378 Smooth superflat for sdR-r2-00014568.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

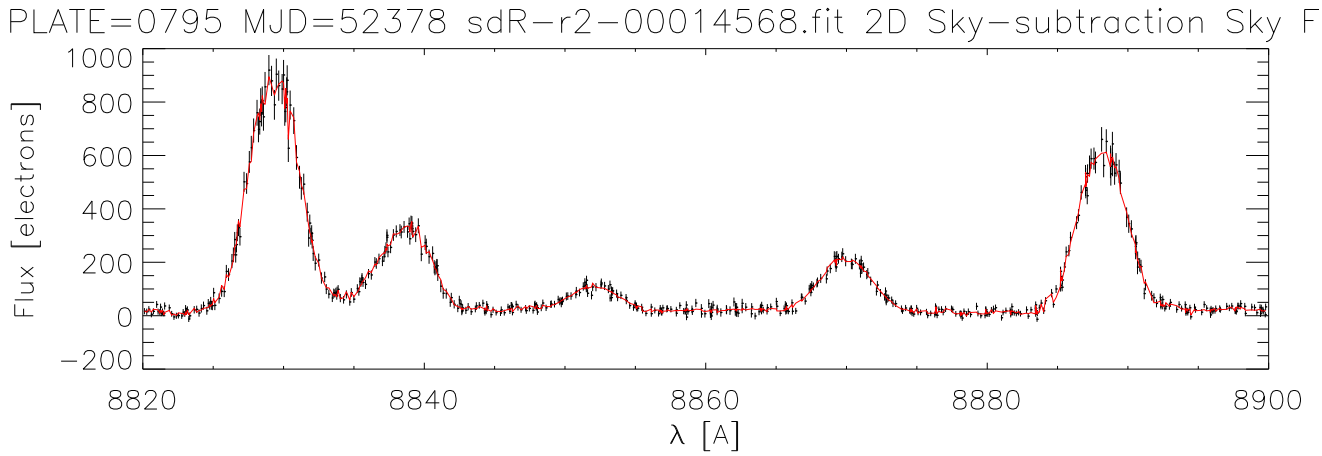

PLATE=0795 MJD=52378 sdR-r2-00014568.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

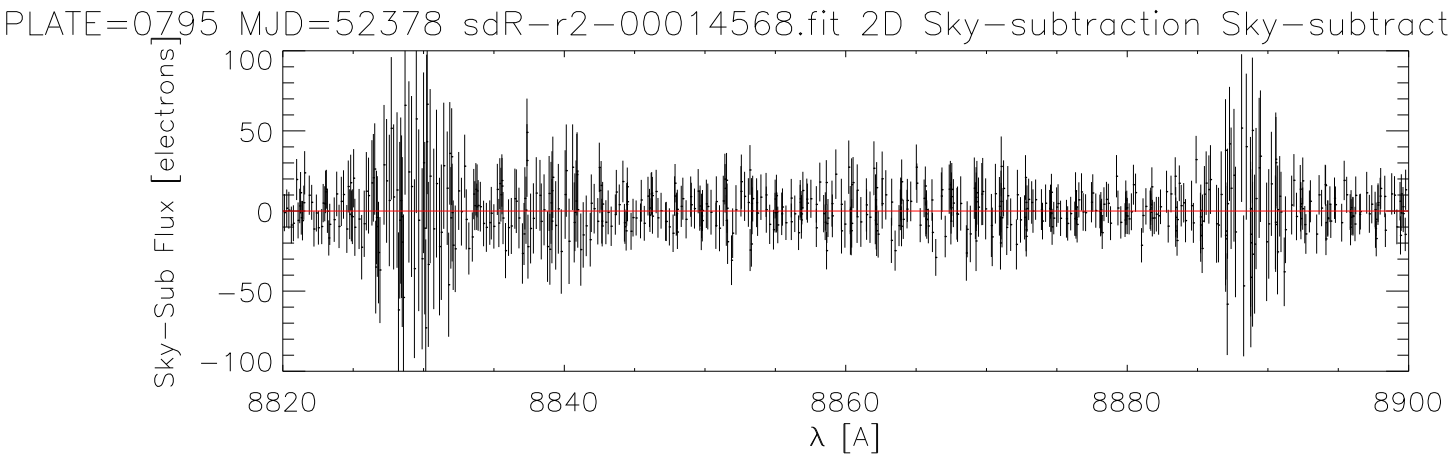

PLATE=0795 MJD=52378 sdR-r2-00014568.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

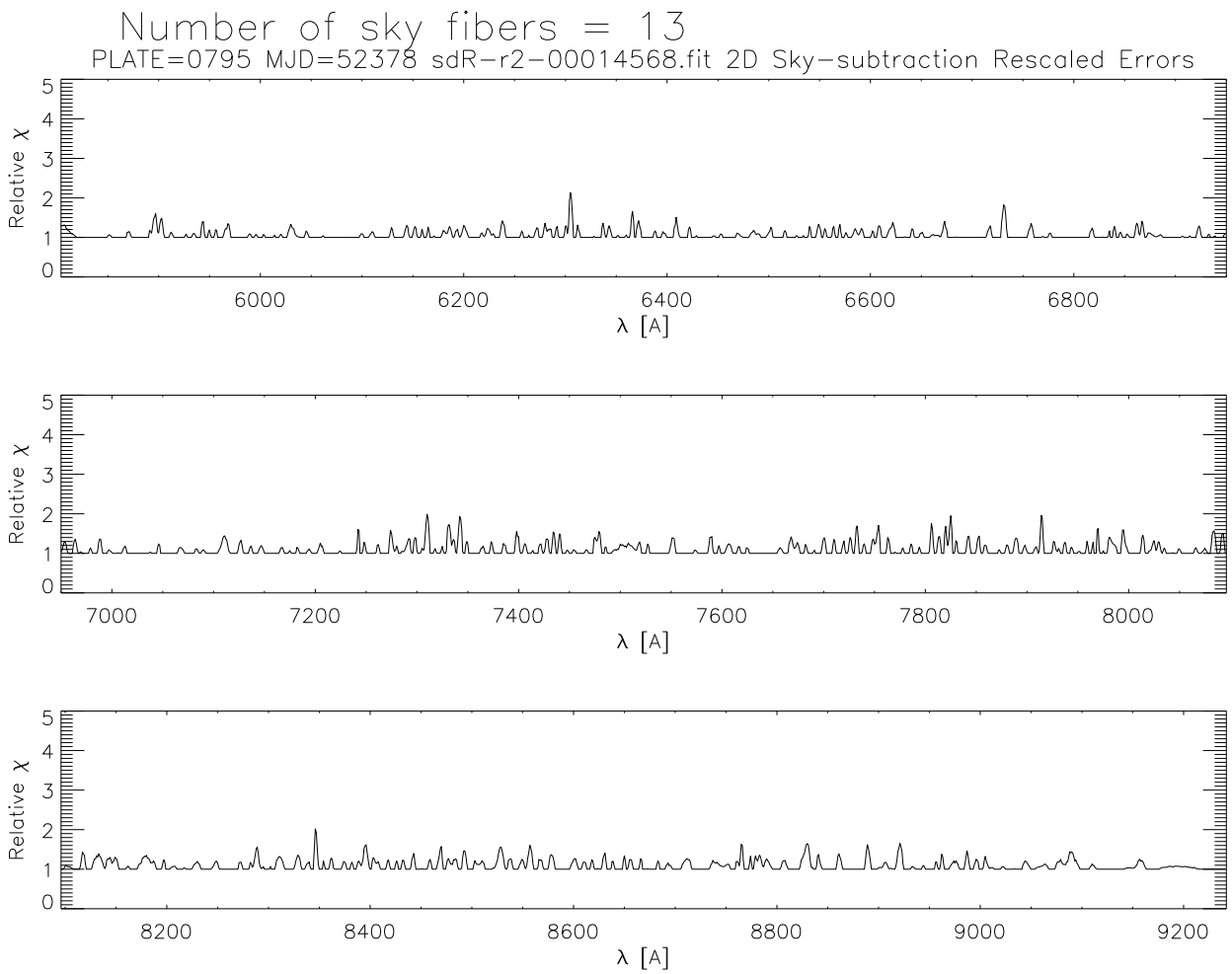

PLATE=0795 MJD=52378 sdR-r2-00014568.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
-200
8820
8840
8860
8880
8900
λ [A]

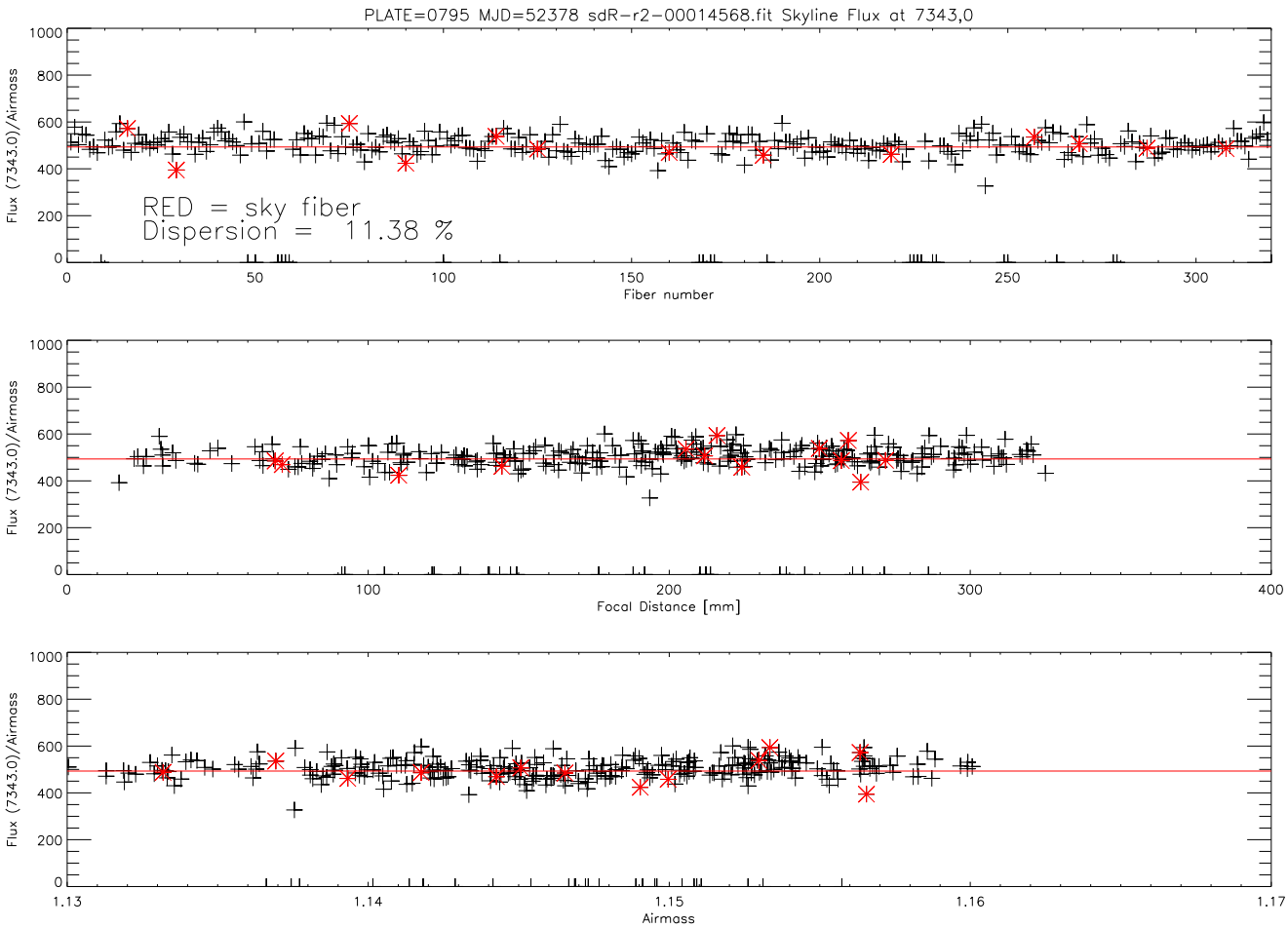

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014568.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

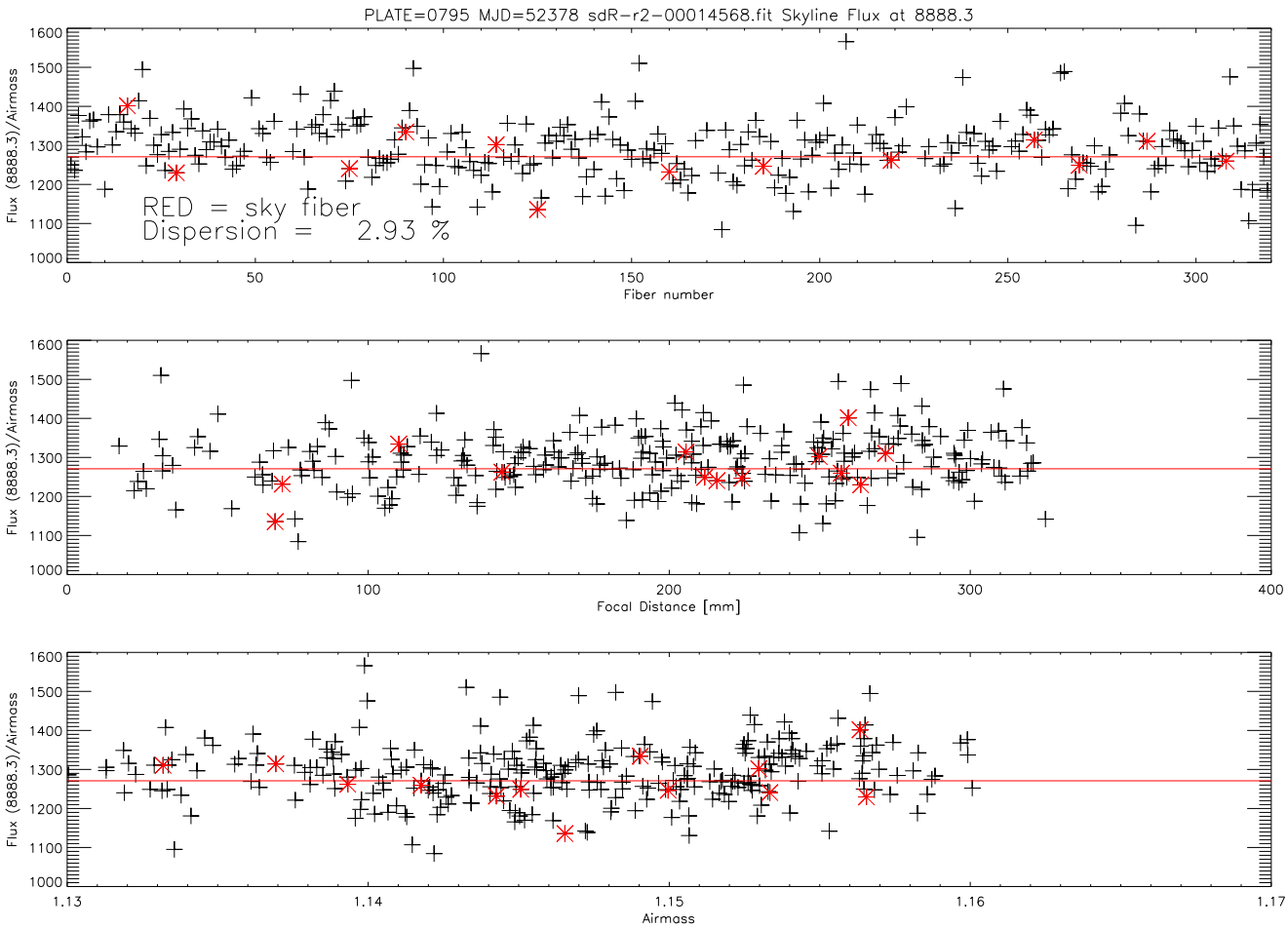

PLATE=0795 MJD=52378 sdR-r2-00014568.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

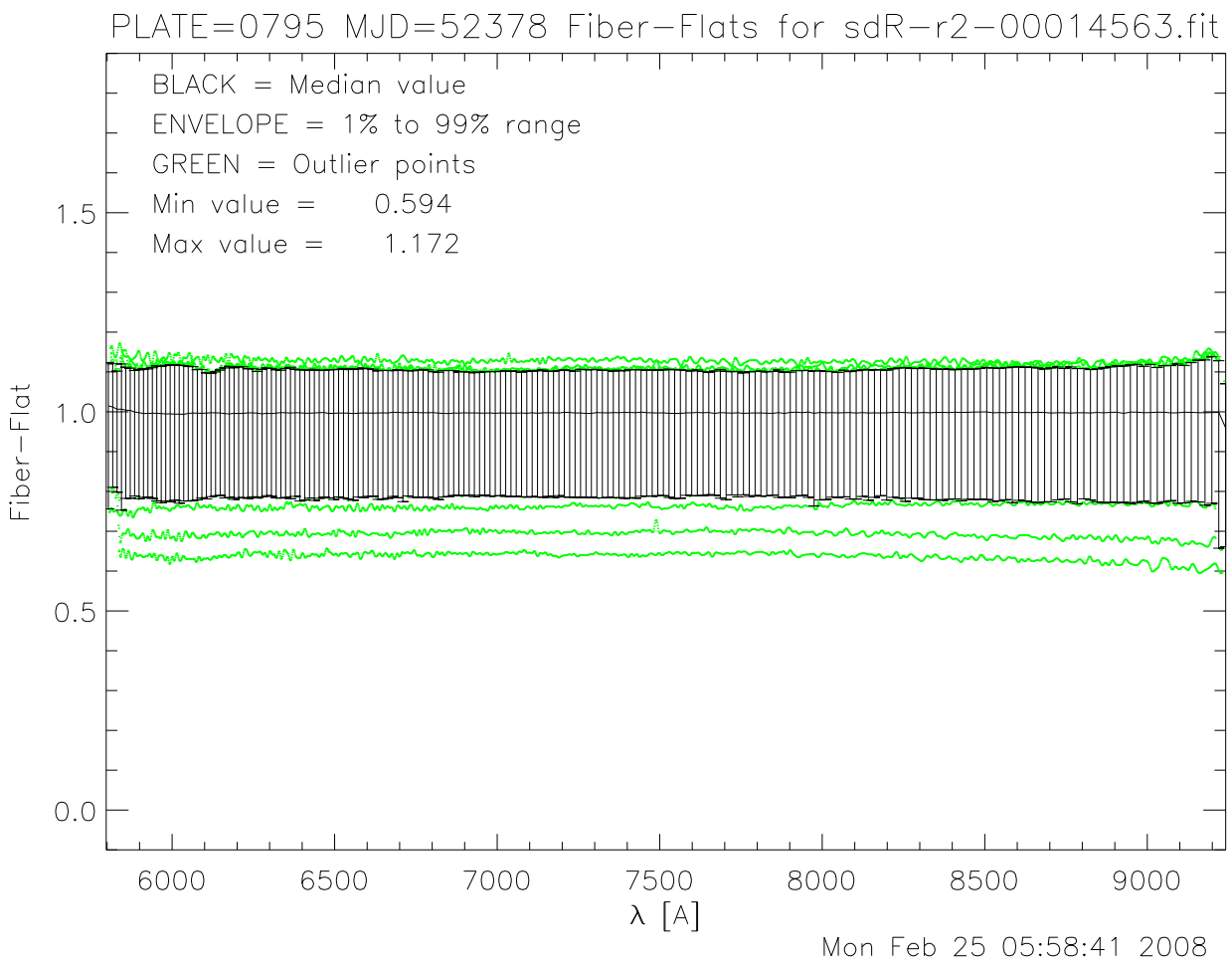

PLATE=0795 MJD=52378 sdR-r2-00014568.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

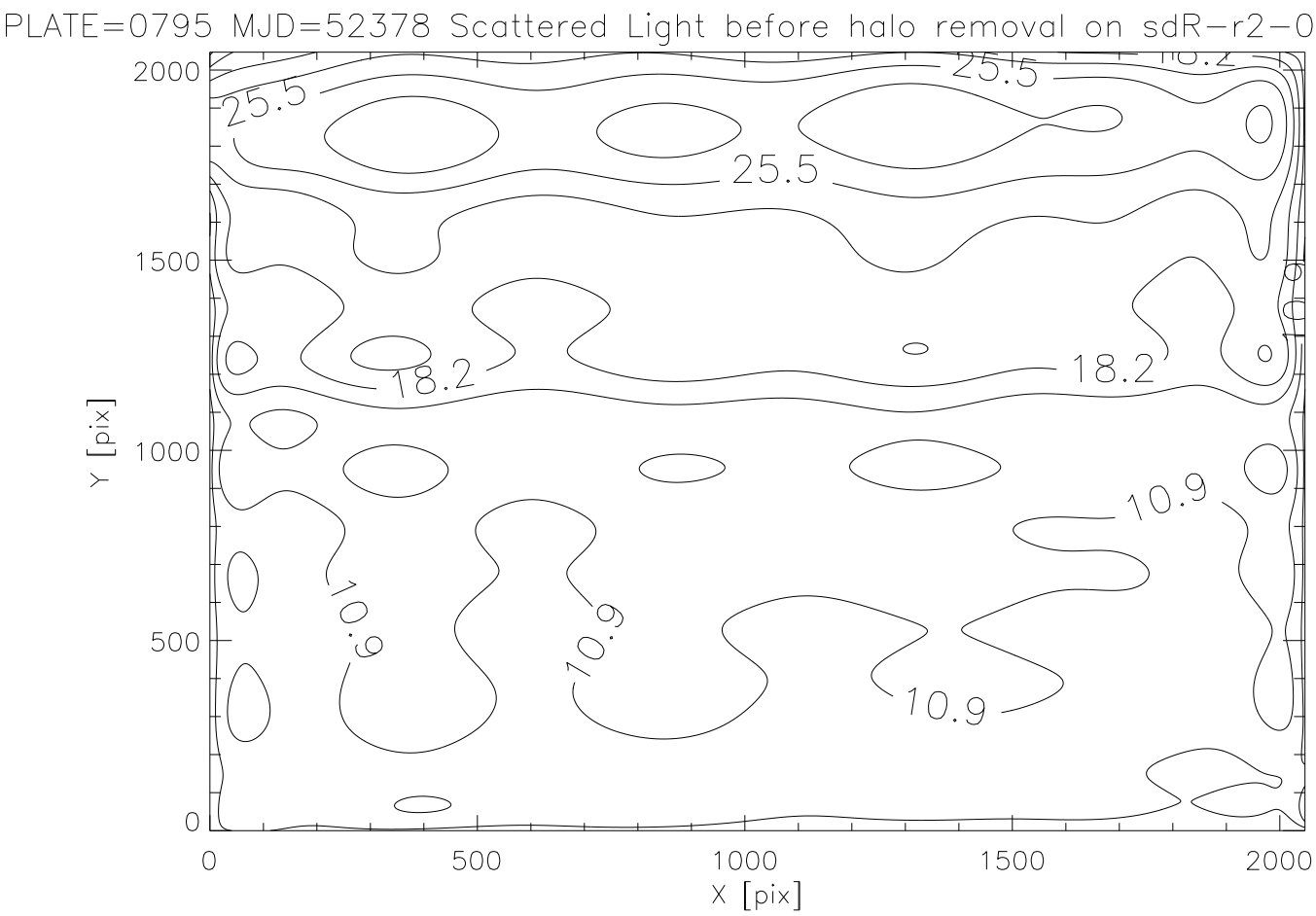

PLATE=0795 MJD=52378 sdR-r2-00014568.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

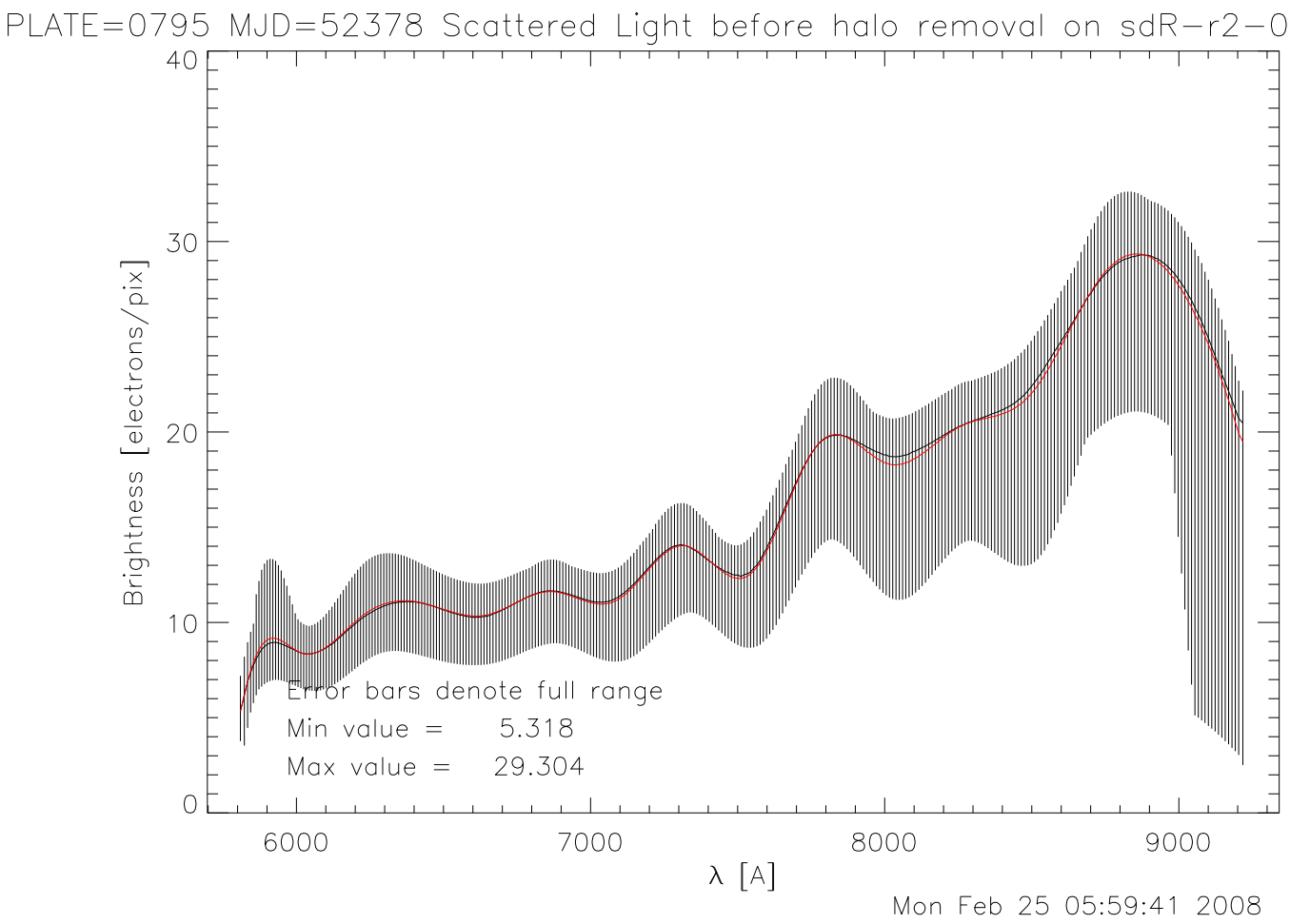

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014568.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

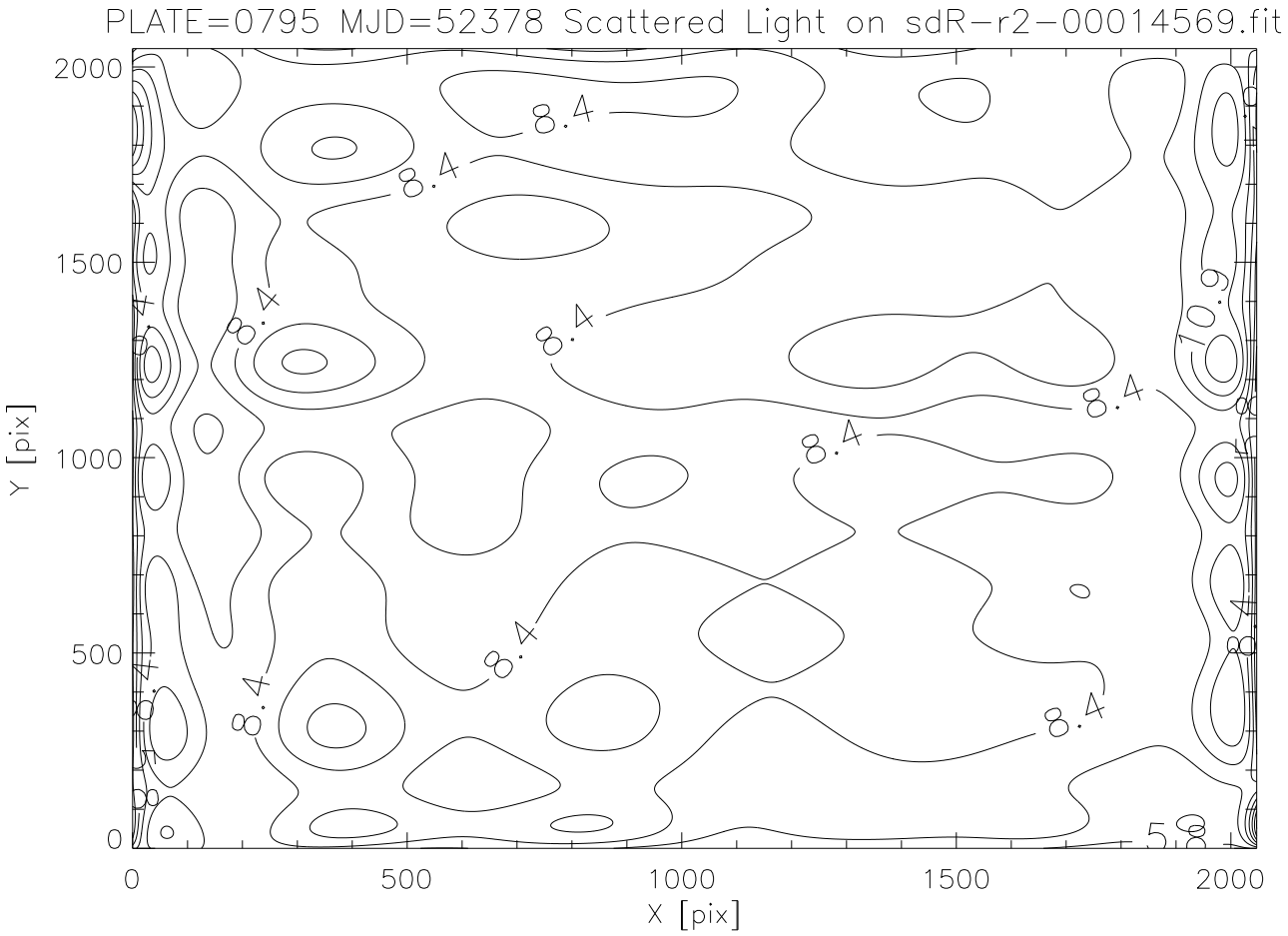

PLATE=0795 MJD=52378 sdR-r2-00014568.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 11.38 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

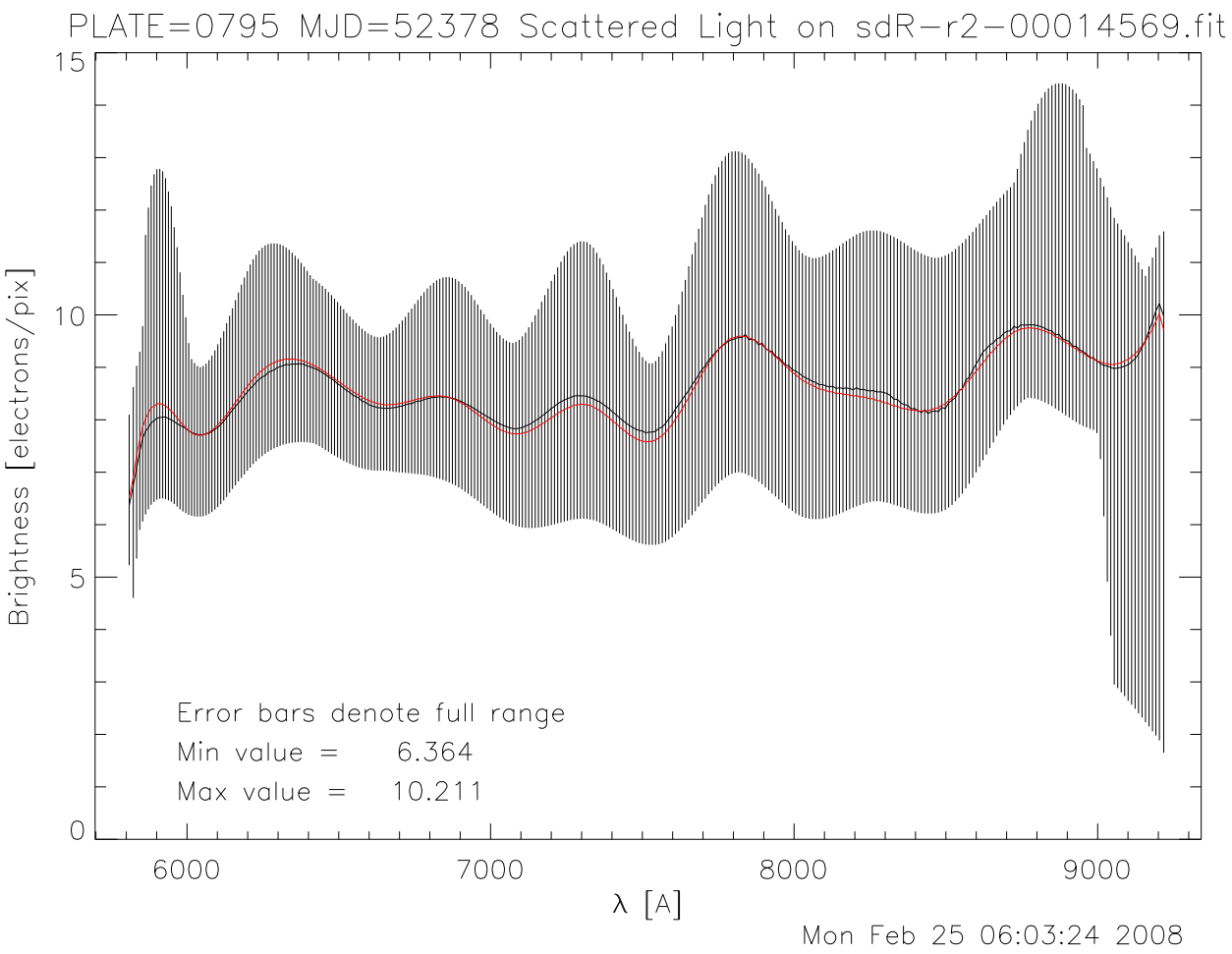

PLATE=0795 MJD=52378 sdR-r2-00014568.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.93 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

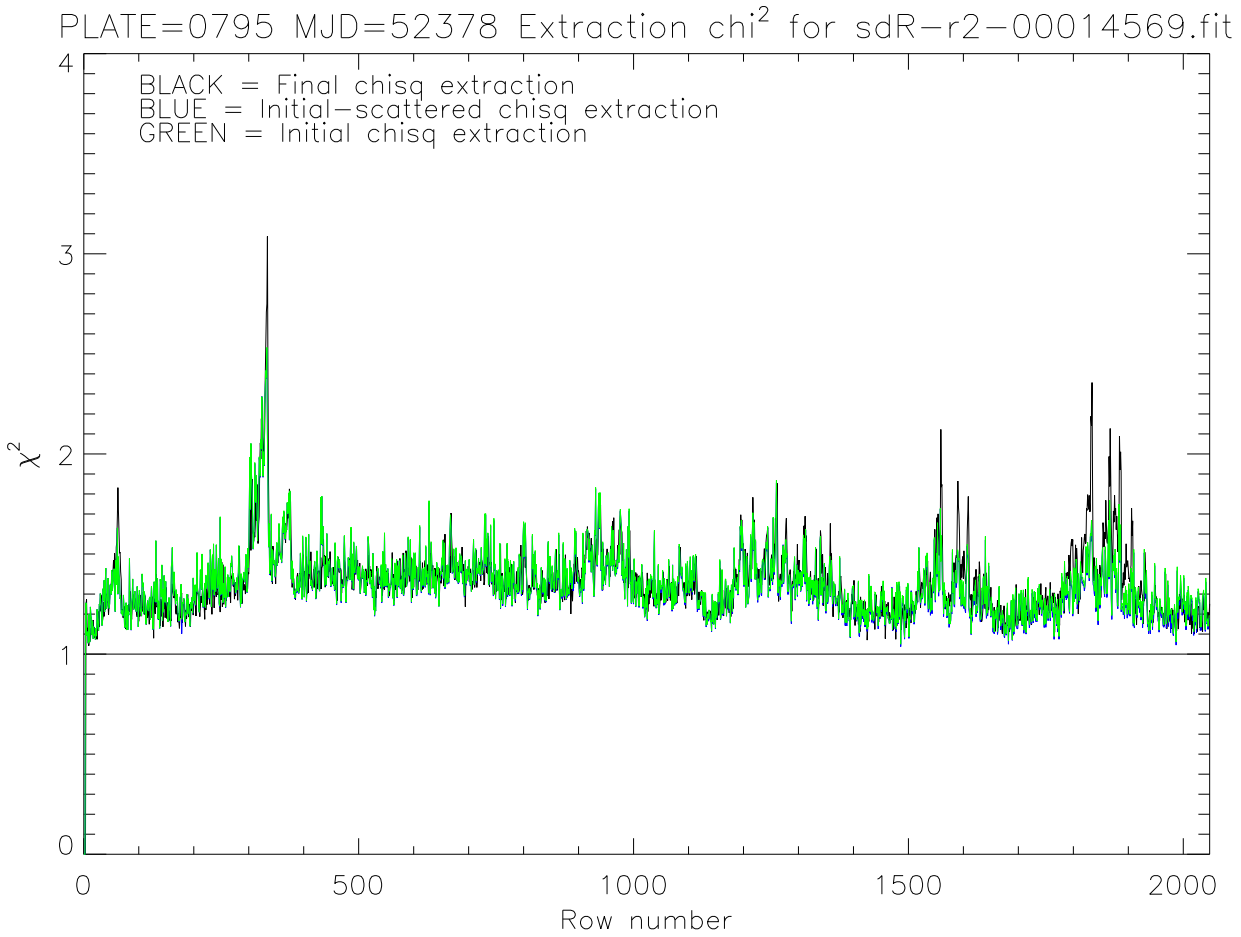

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.594
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 05:58:41 2008

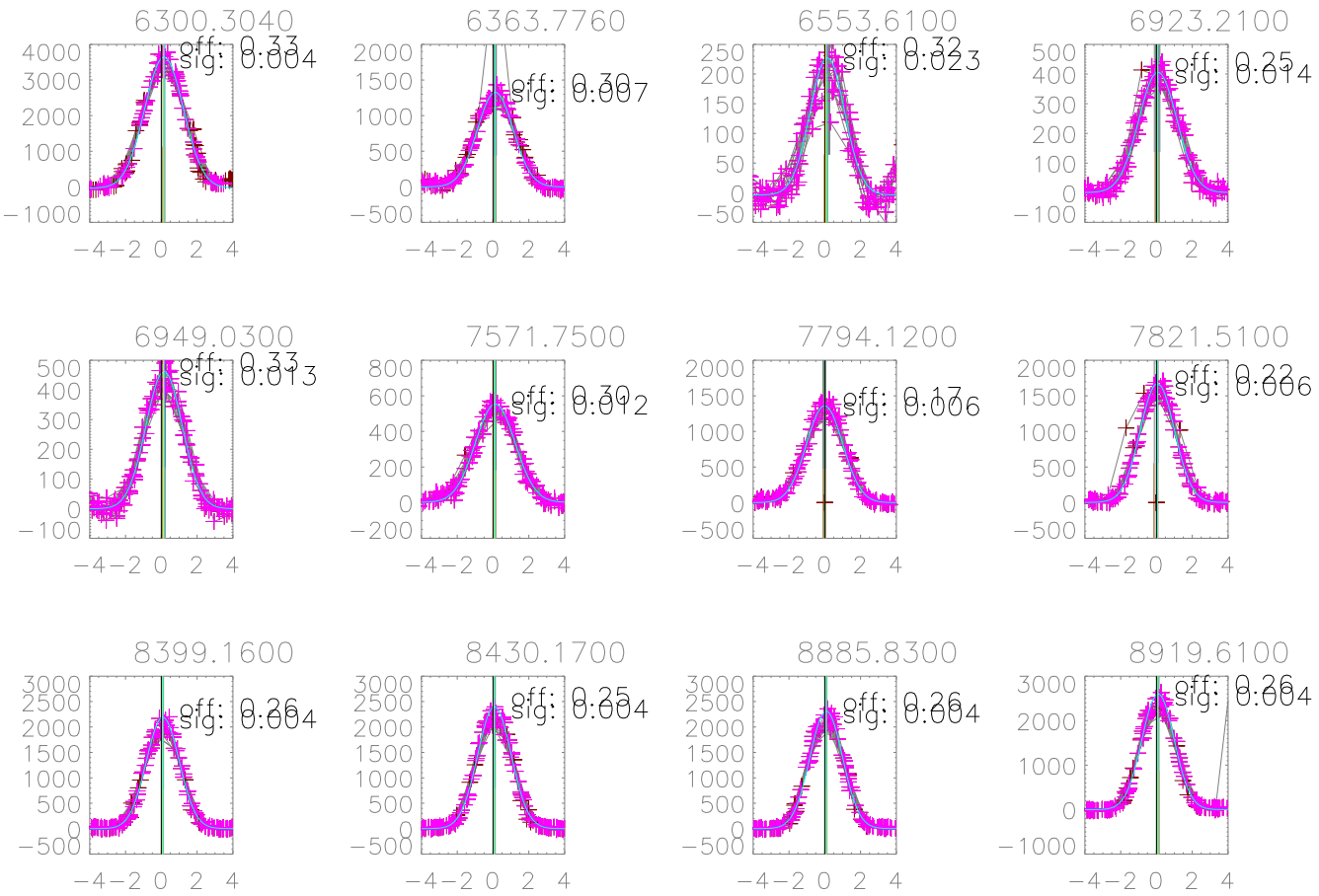

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR−r2−00014569.fi
25.5
25.5
25.5
18.2
18.2
10.9
10.9
10.9
10.9
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

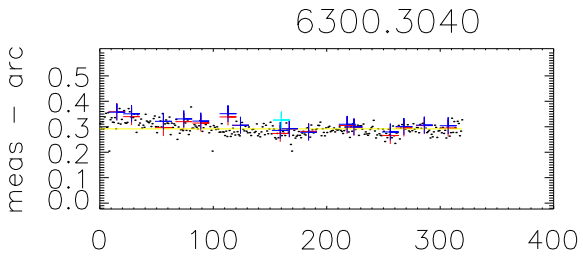

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014569.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.318
Max value = 29.304
Mon Feb 25 05:59:41 2008

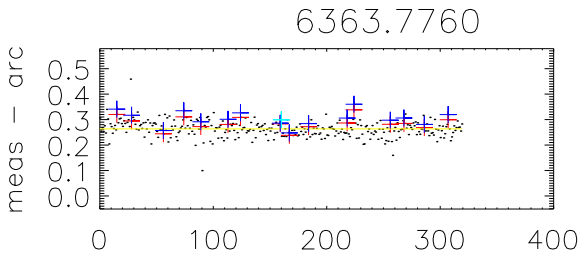

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014569.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.4
10.9
5.8

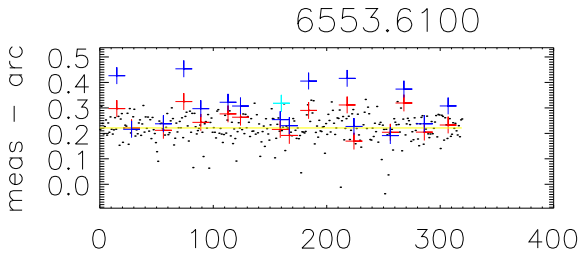

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014569.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.364
Max value = 10.211
Mon Feb 25 06:03:24 2008

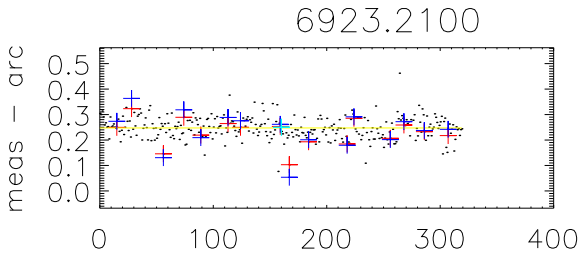

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r2−00014569.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

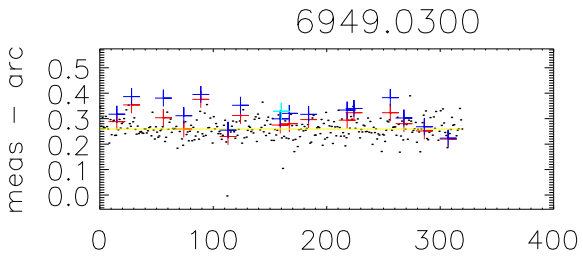

6300.3040
off: 0.33
sig: 0.004
6363.7760
off: 0.30
sig: 0.007
6553.6100
off: 0.32
sig: 0.023
6923.2100
off: 0.25
sig: 0.014
6949.0300
off: 0.33
sig: 0.013
7571.7500
off: 0.30
sig: 0.012
7794.1200
off: 0.17
sig: 0.006
7821.5100
off: 0.22
sig: 0.006
8399.1600
off: 0.26
sig: 0.004
8430.1700
off: 0.25
sig: 0.004
8885.8300
off: 0.26
sig: 0.004
8919.6100
off: 0.26
sig: 0.004

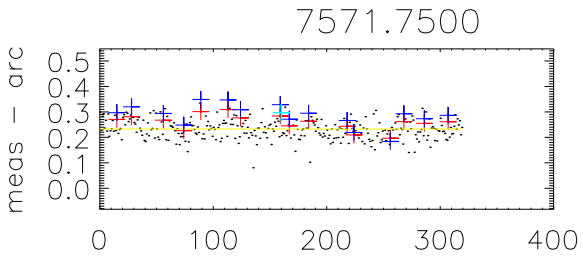

6300.3040
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

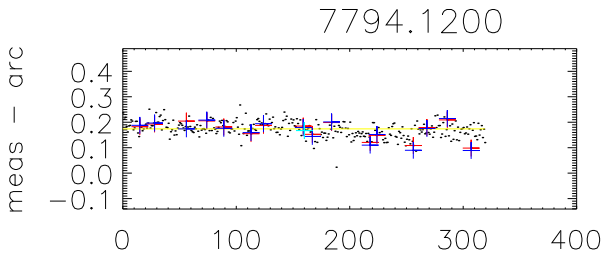

6363.7760
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

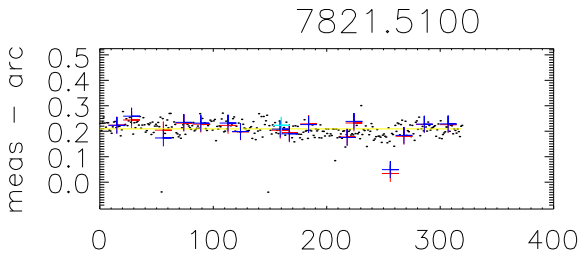

6553.6100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

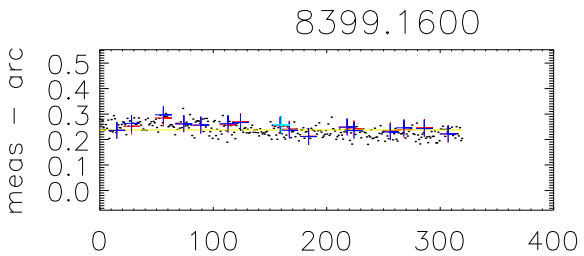

6923.2100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

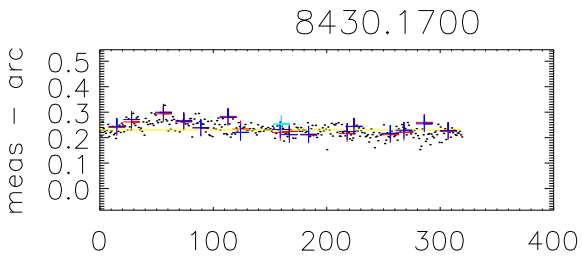

6949.0300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

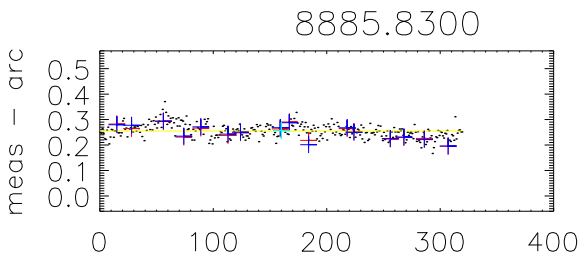

7571.7500
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

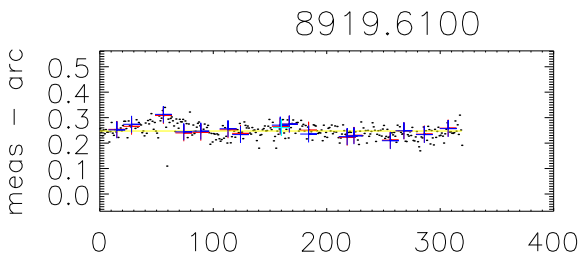

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

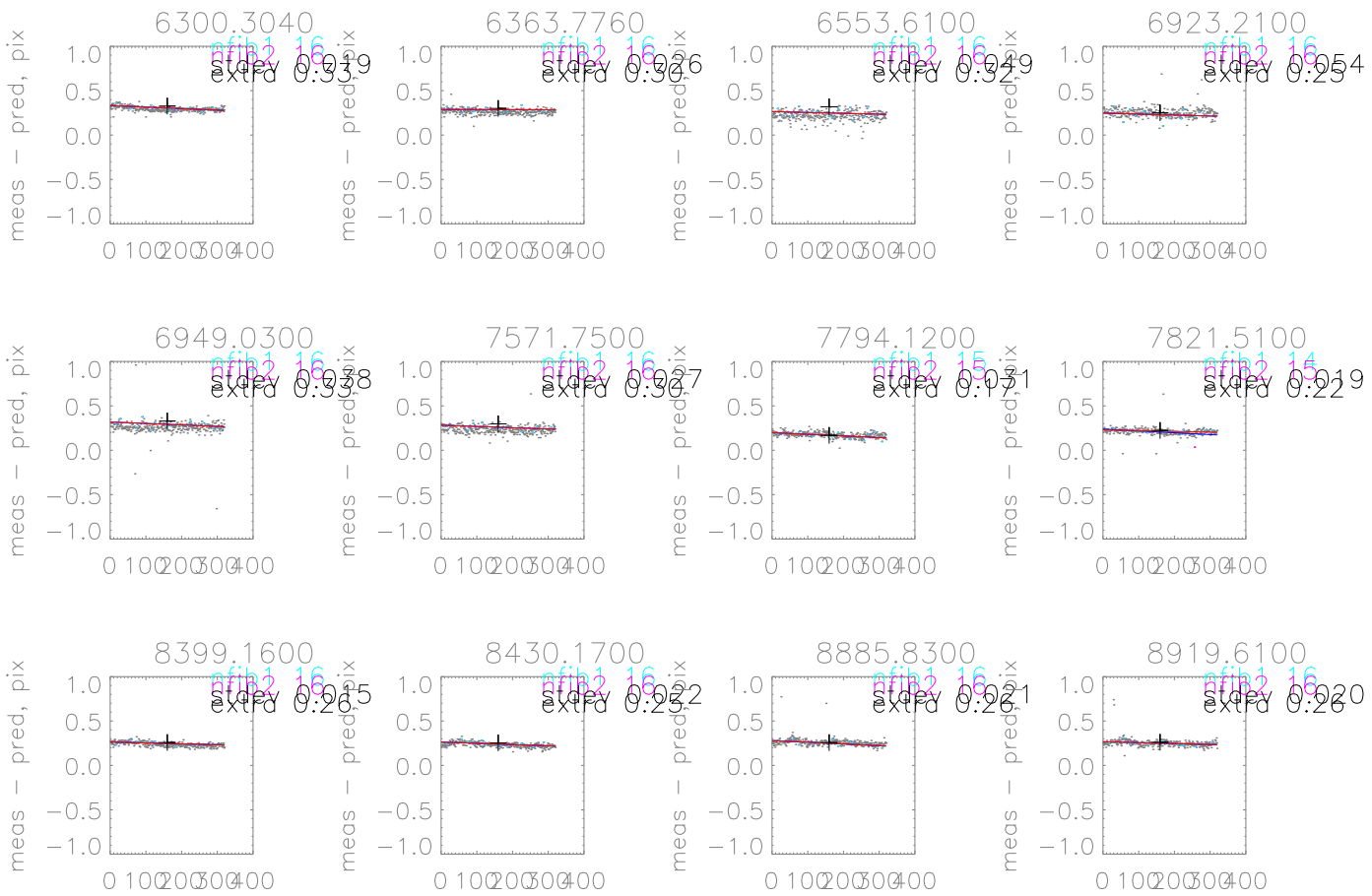

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

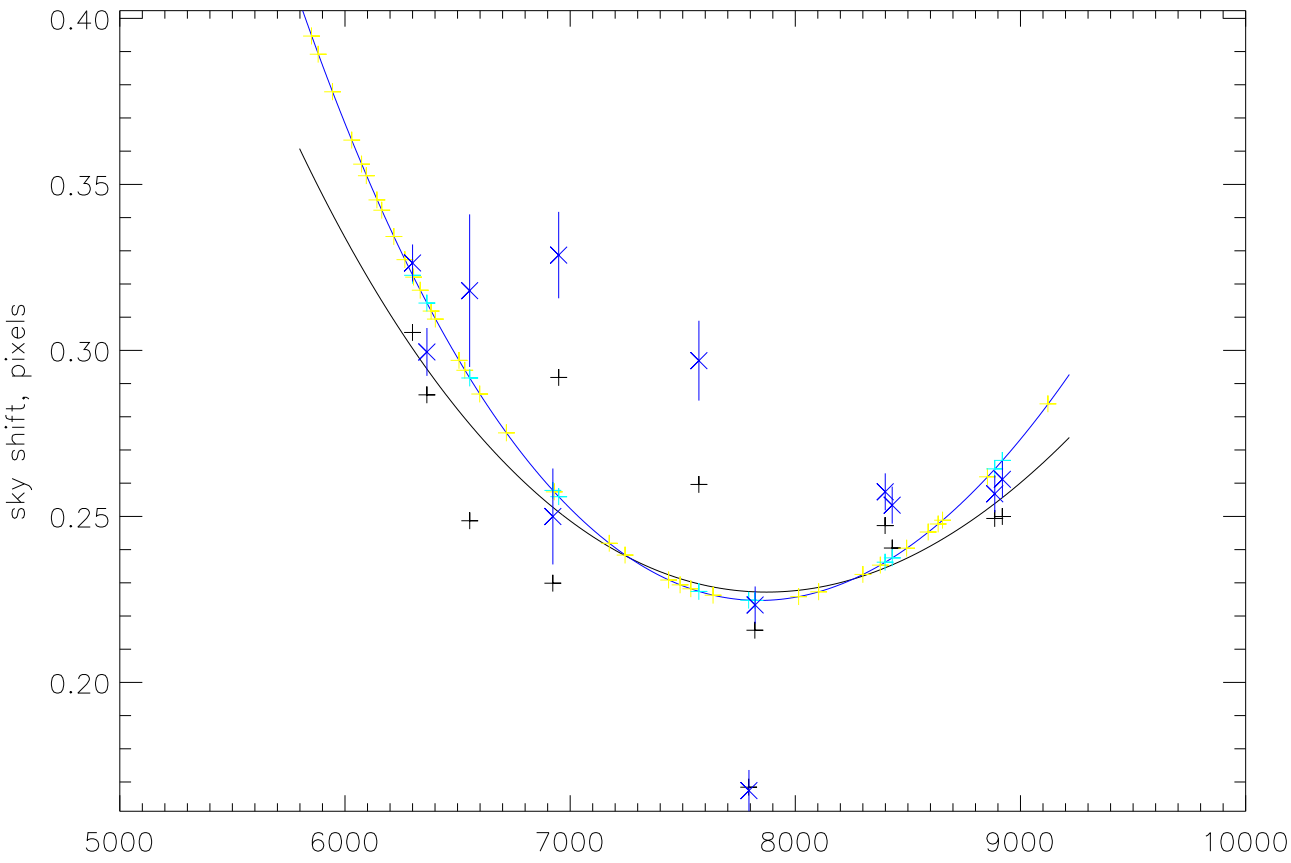

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

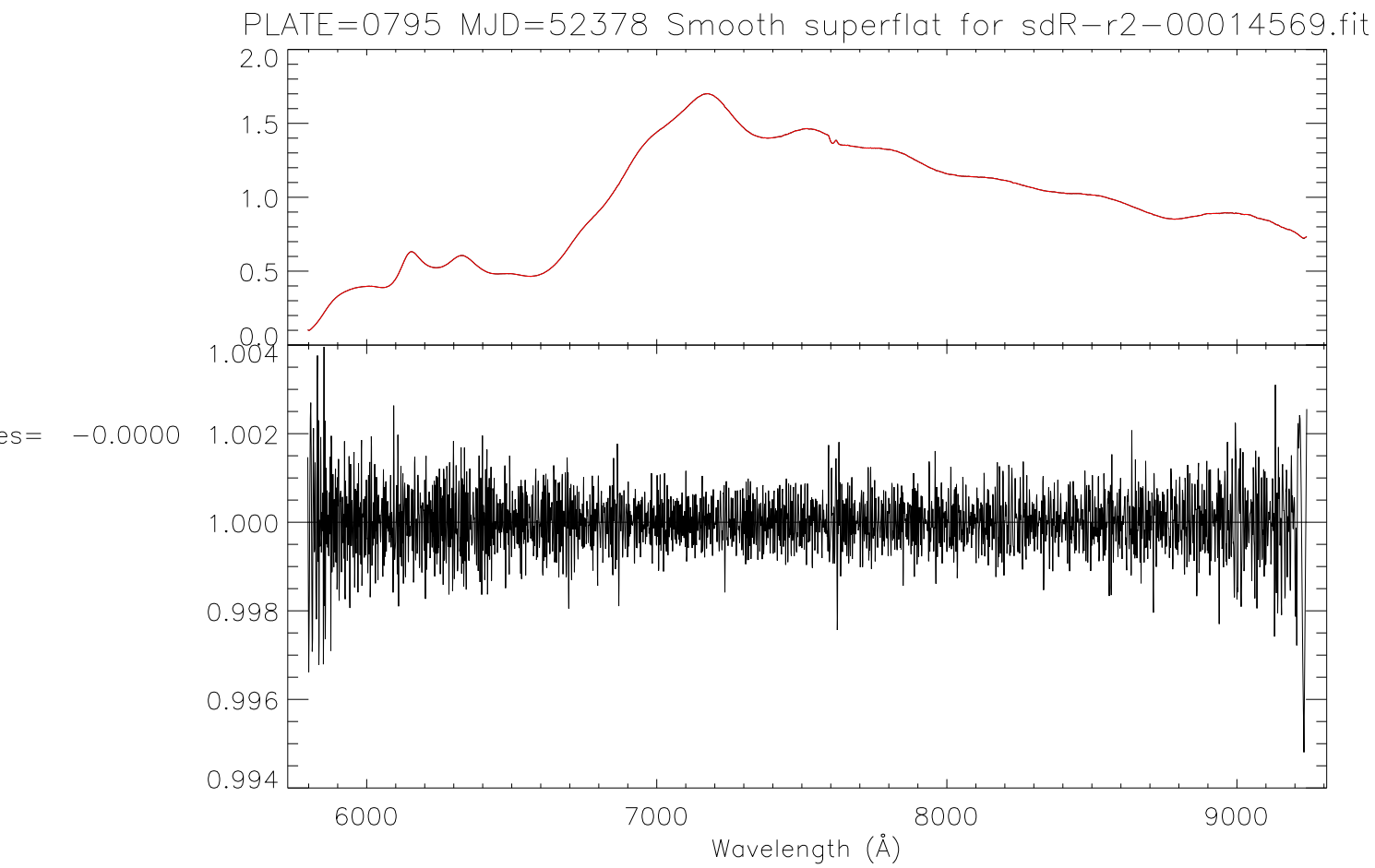

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

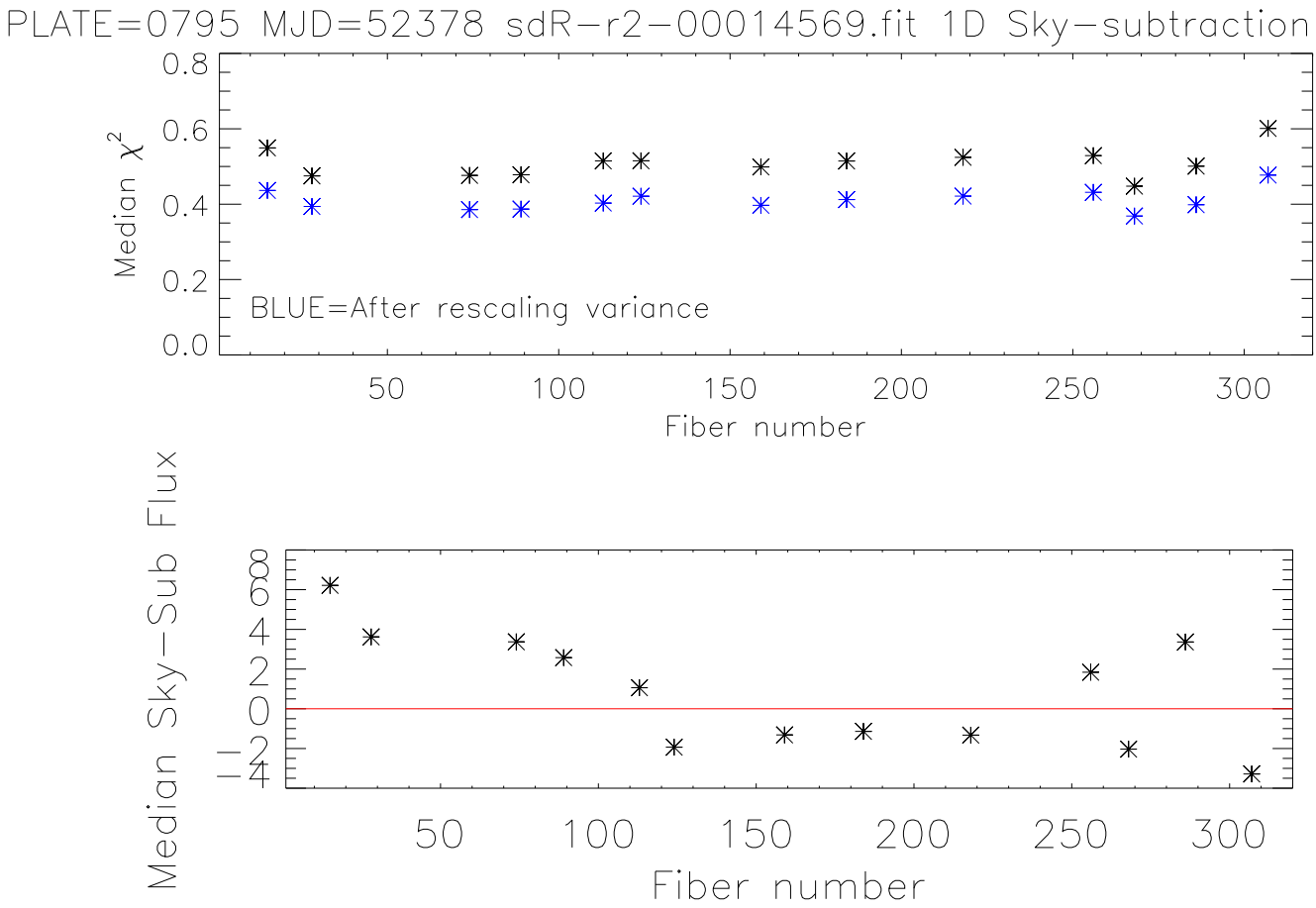

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

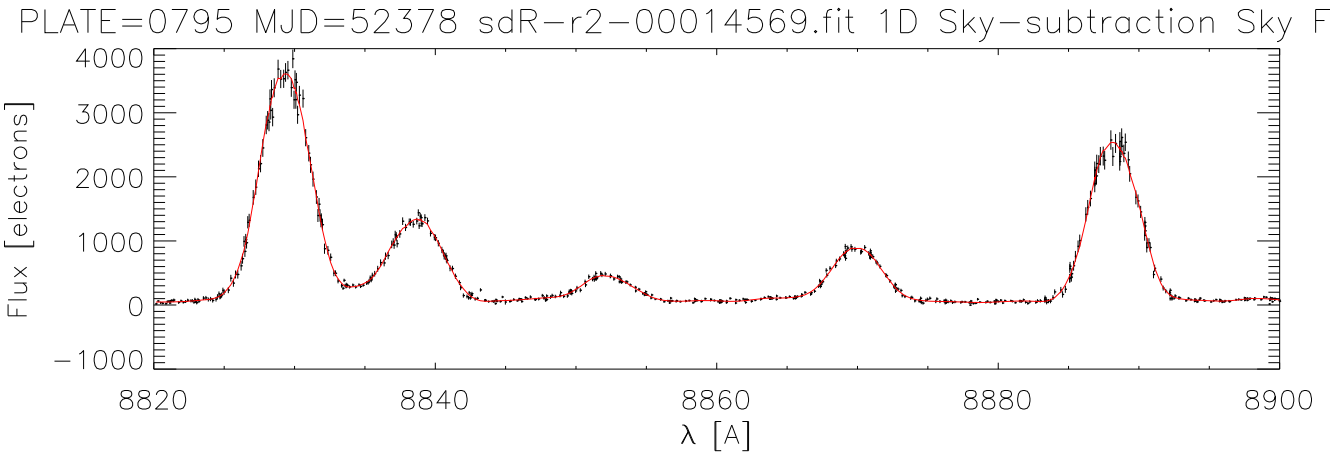

6300.3040
mfhd2 16
stdev 0.019
extra 0.33
6363.7760
mfhd2 16
stdev 0.026
extra 0.36
6553.6100
mfhd2 16
stdev 0.049
extra 0.32
6923.2100
mfhd2 16
stdev 0.054
extra 0.25
6949.0300
mfhd2 16
stdev 0.038
extra 0.33
7571.7500
mfhd2 16
stdev 0.027
extra 0.36
7794.1200
mfhd2 15
stdev 0.071
extra 0.17
7821.5100
mfhd2 14
stdev 0.019
extra 0.22
8399.1600
mfhd2 16
stdev 0.045
extra 0.26
8430.1700
mfhd2 16
stdev 0.022
extra 0.23
8885.8300
mfhd2 16
stdev 0.021
extra 0.26
8919.6100
mfhd2 16
stdev 0.020
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

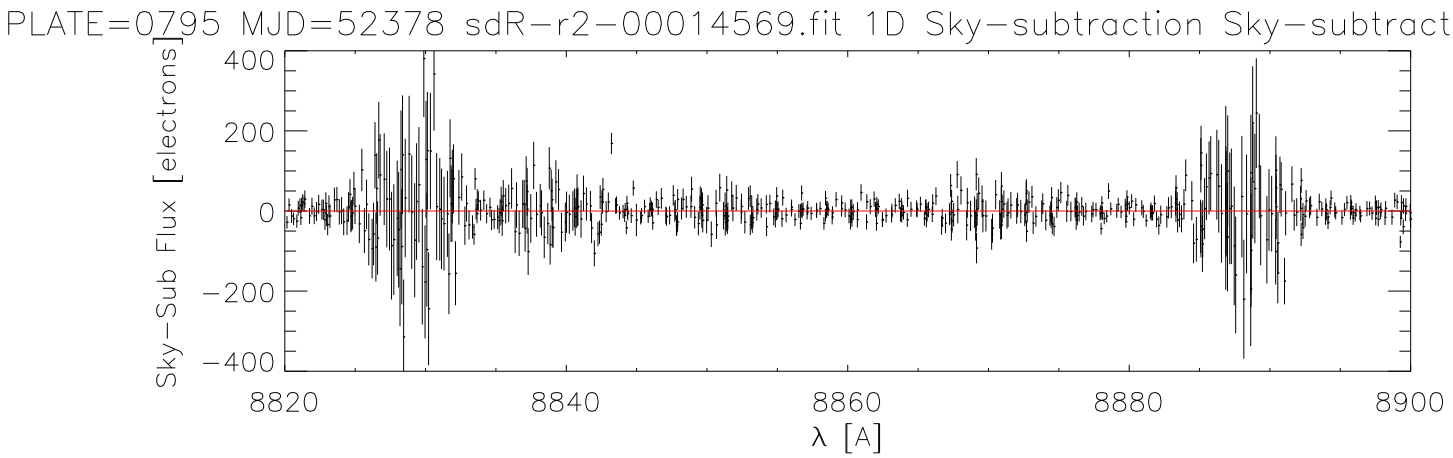

0.40
0.35
0.30
0.25
0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

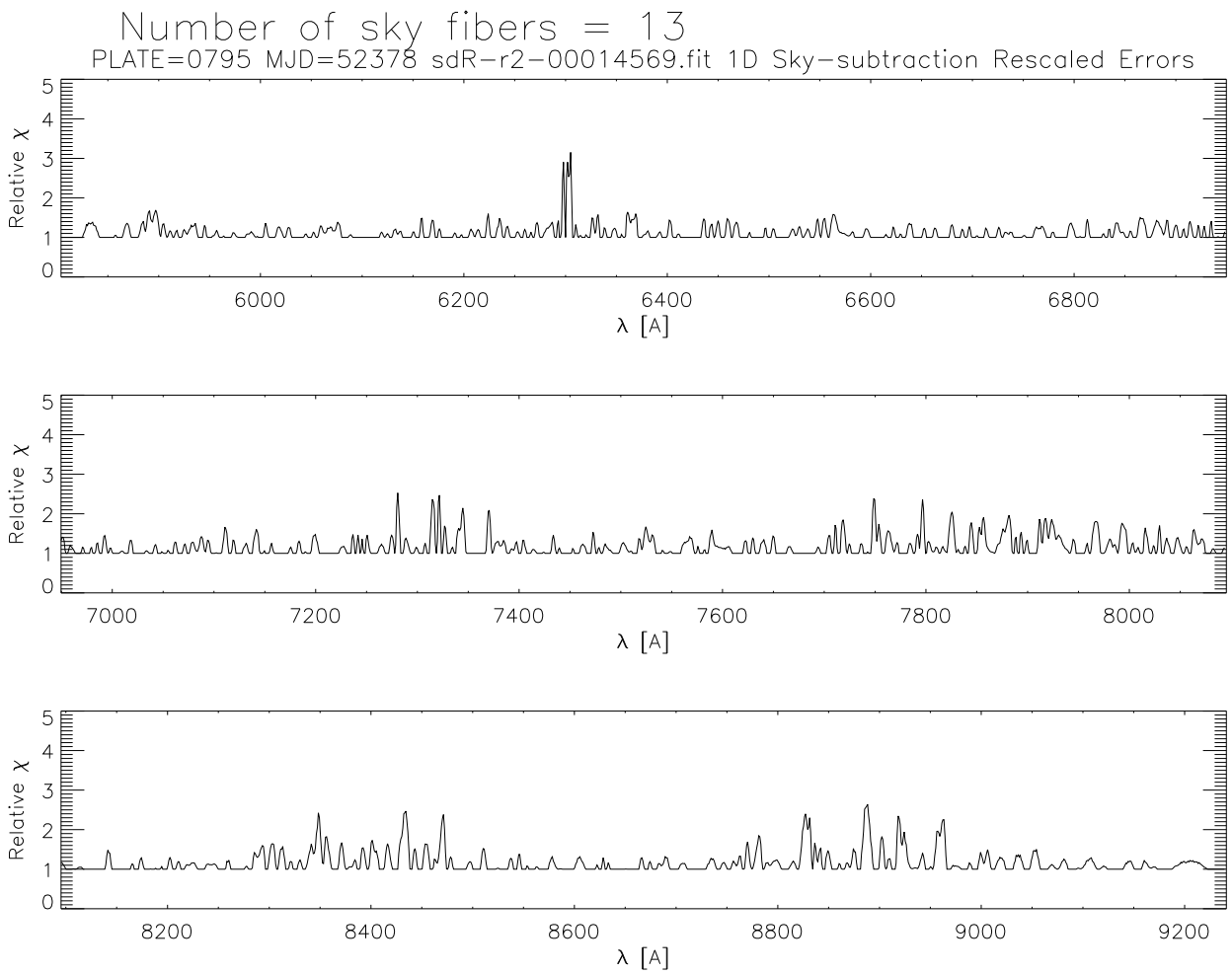

PLATE=0795 MJD=52378 Smooth superflat for sdR-r2-00014569.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

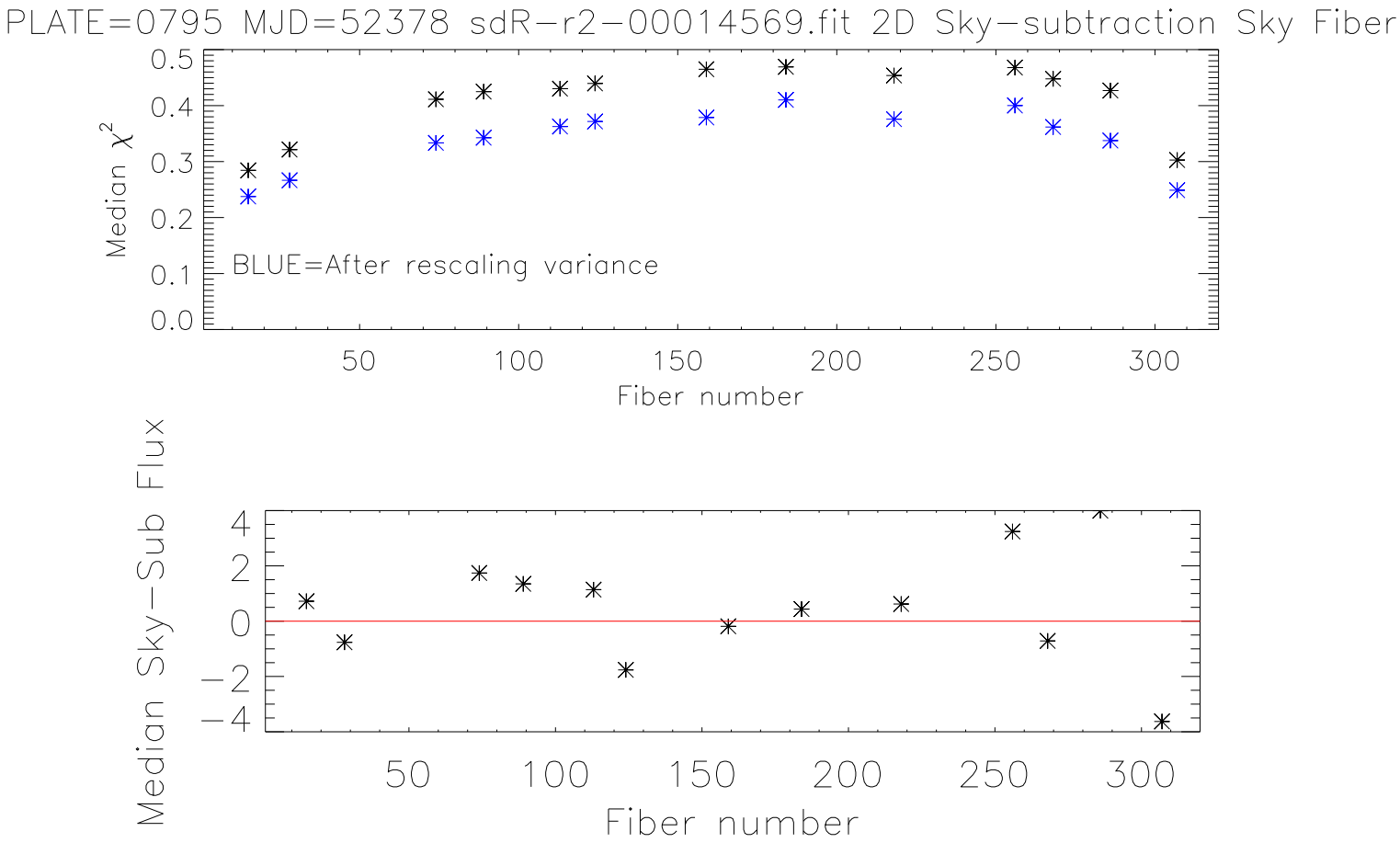

PLATE=0795 MJD=52378 sdR-r2-00014569.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

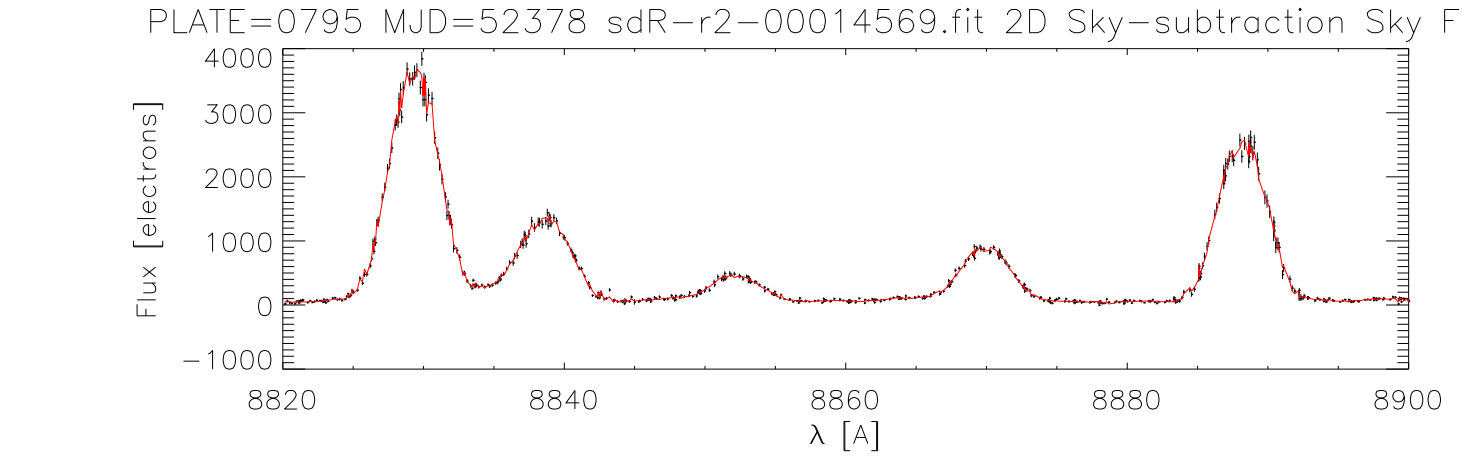
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

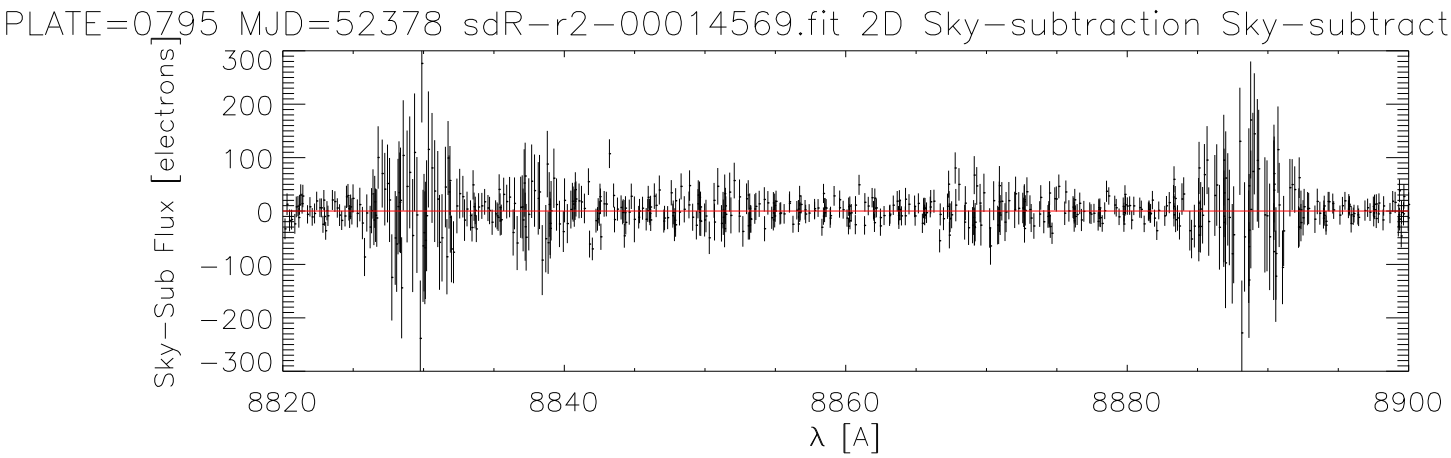

PLATE=0795 MJD=52378 sdR-r2-00014569.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

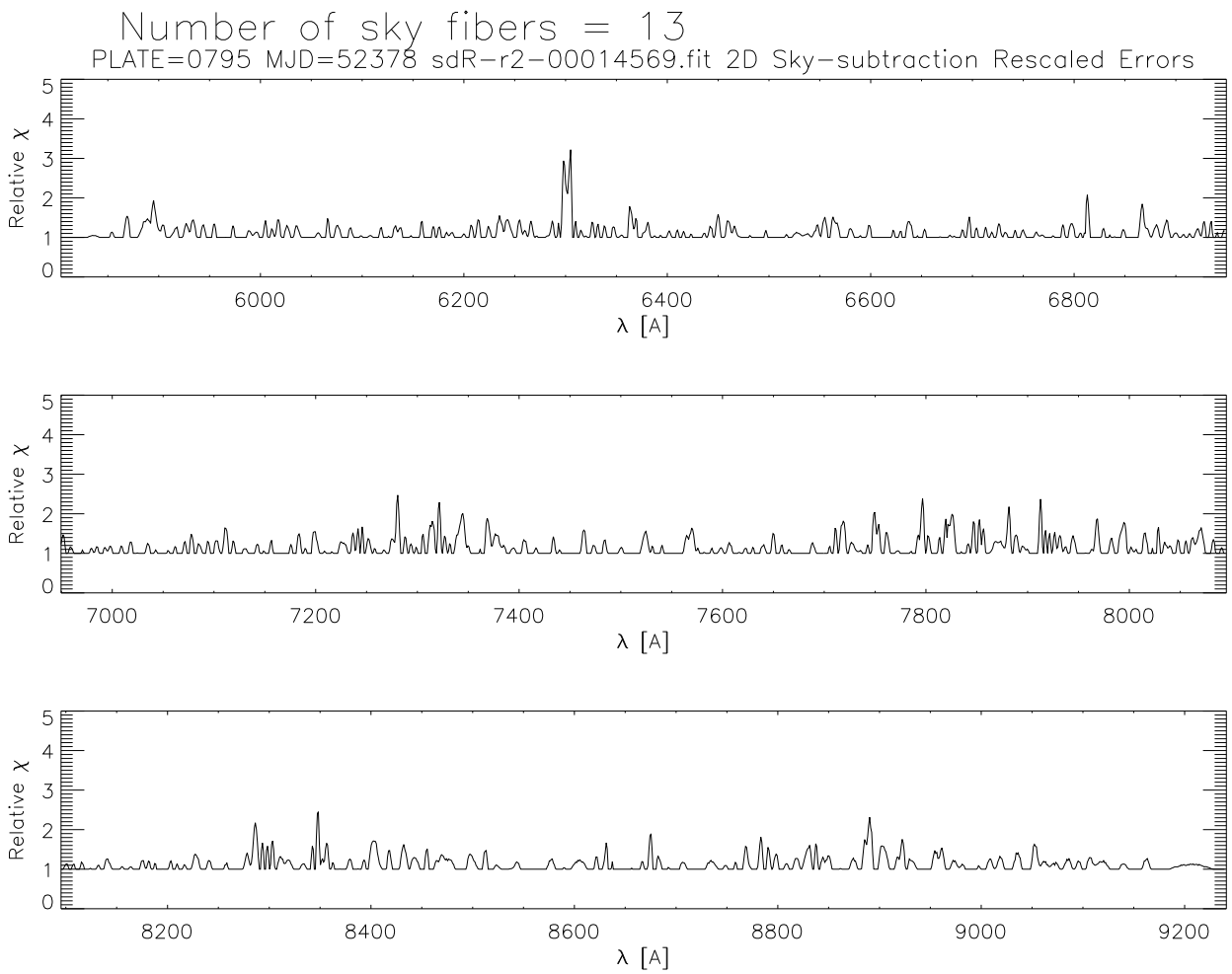

PLATE=0795 MJD=52378 sdR-r2-00014569.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

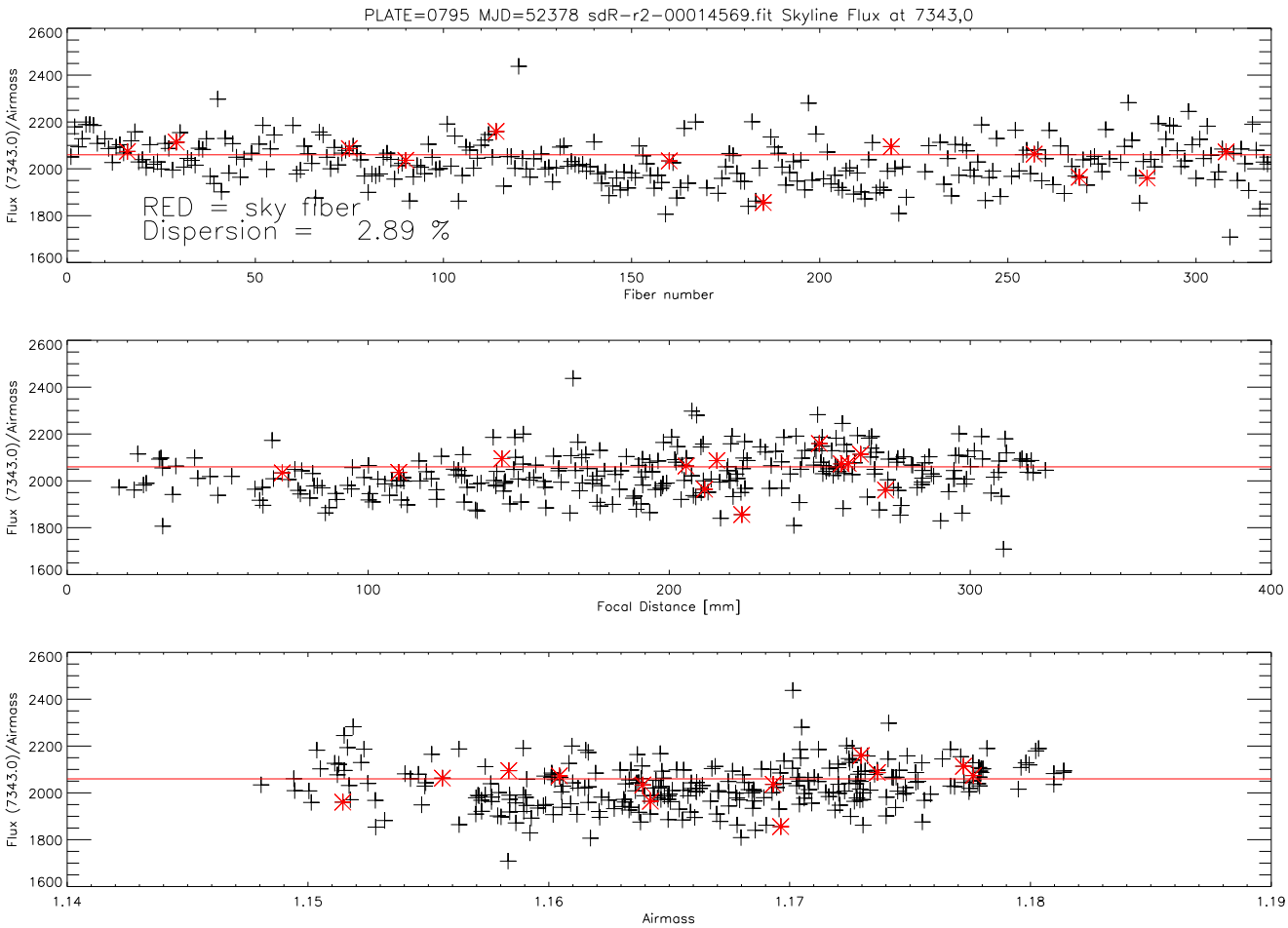

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014569.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

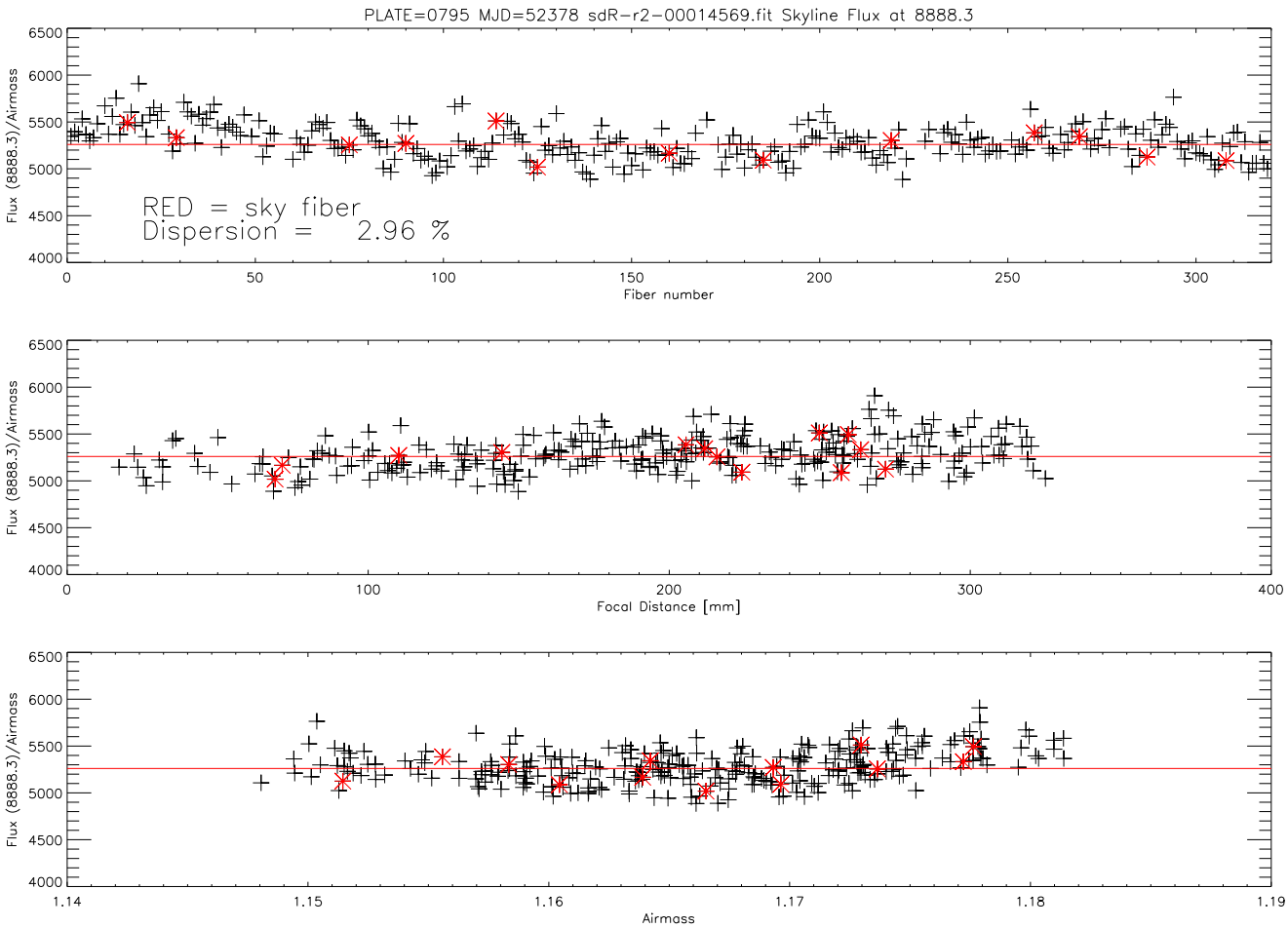

PLATE=0795 MJD=52378 sdR-r2-00014569.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

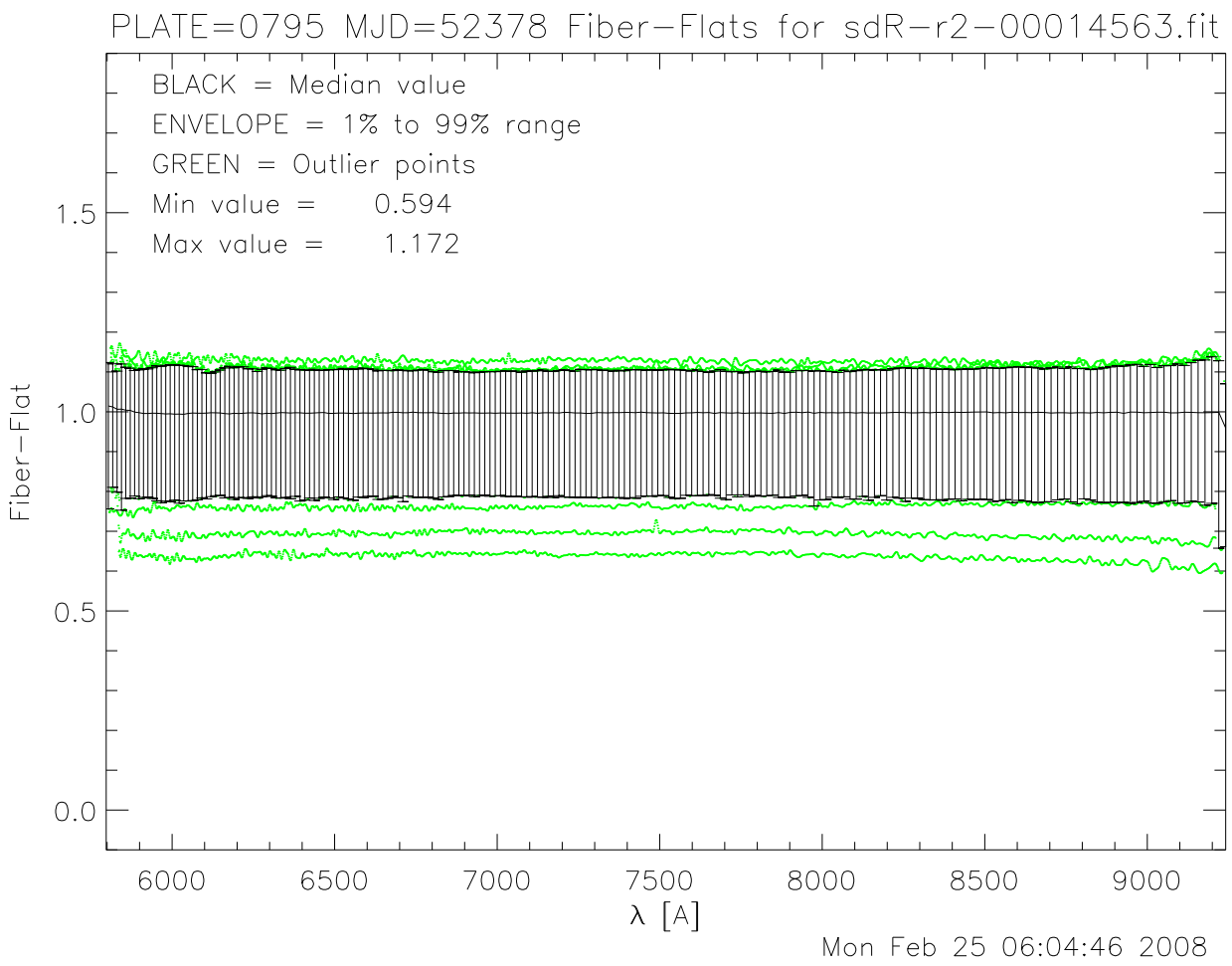

PLATE=0795 MJD=52378 sdR-r2-00014569.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

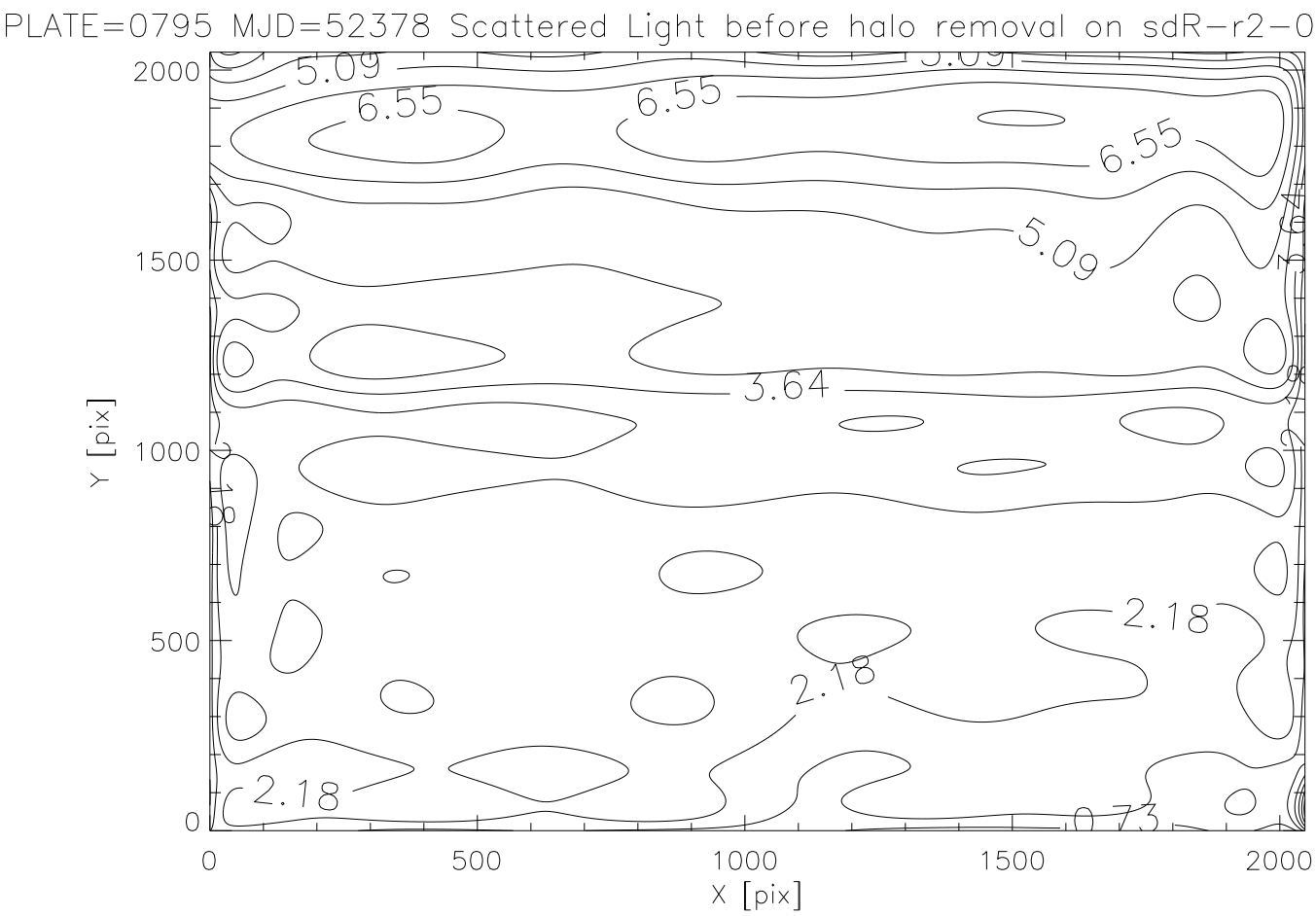

PLATE=0795 MJD=52378 sdR-r2-00014569.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
−300
8820
8840
8860
8880
8900
λ [A]

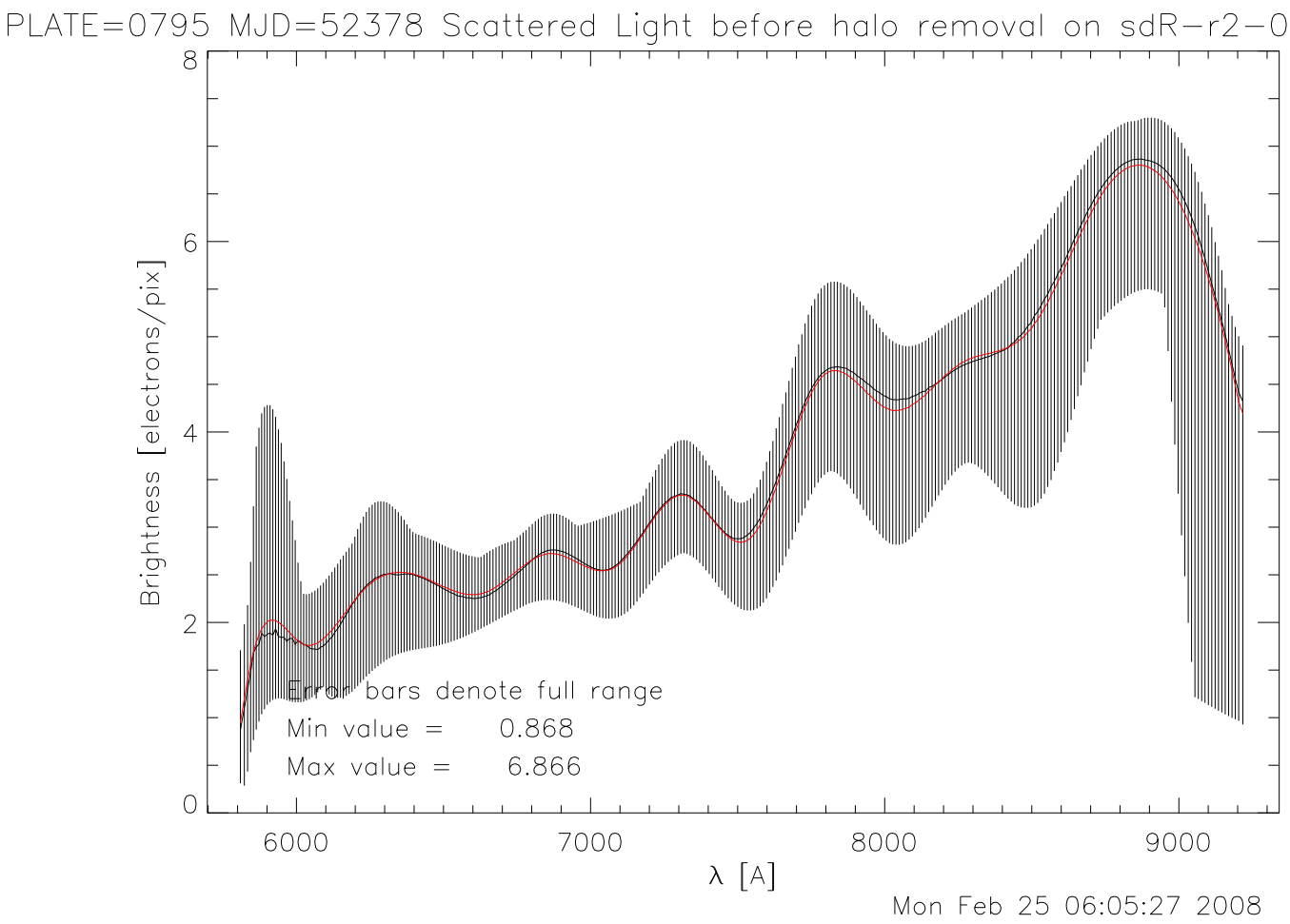

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014569.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

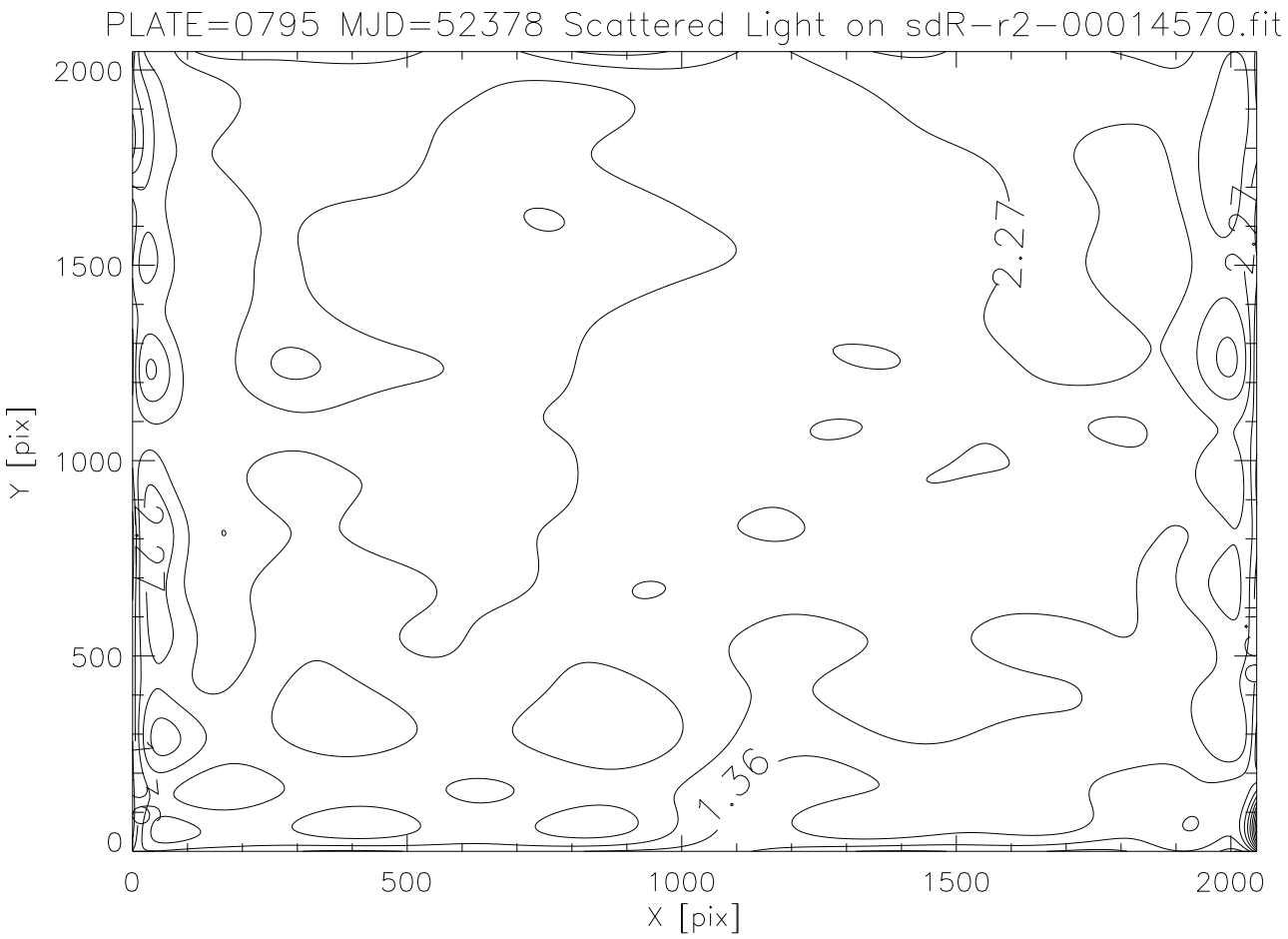

PLATE=0795 MJD=52378 sdR-r2-00014569.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.89 %
Fiber number
Focal Distance [mm]
Airmass

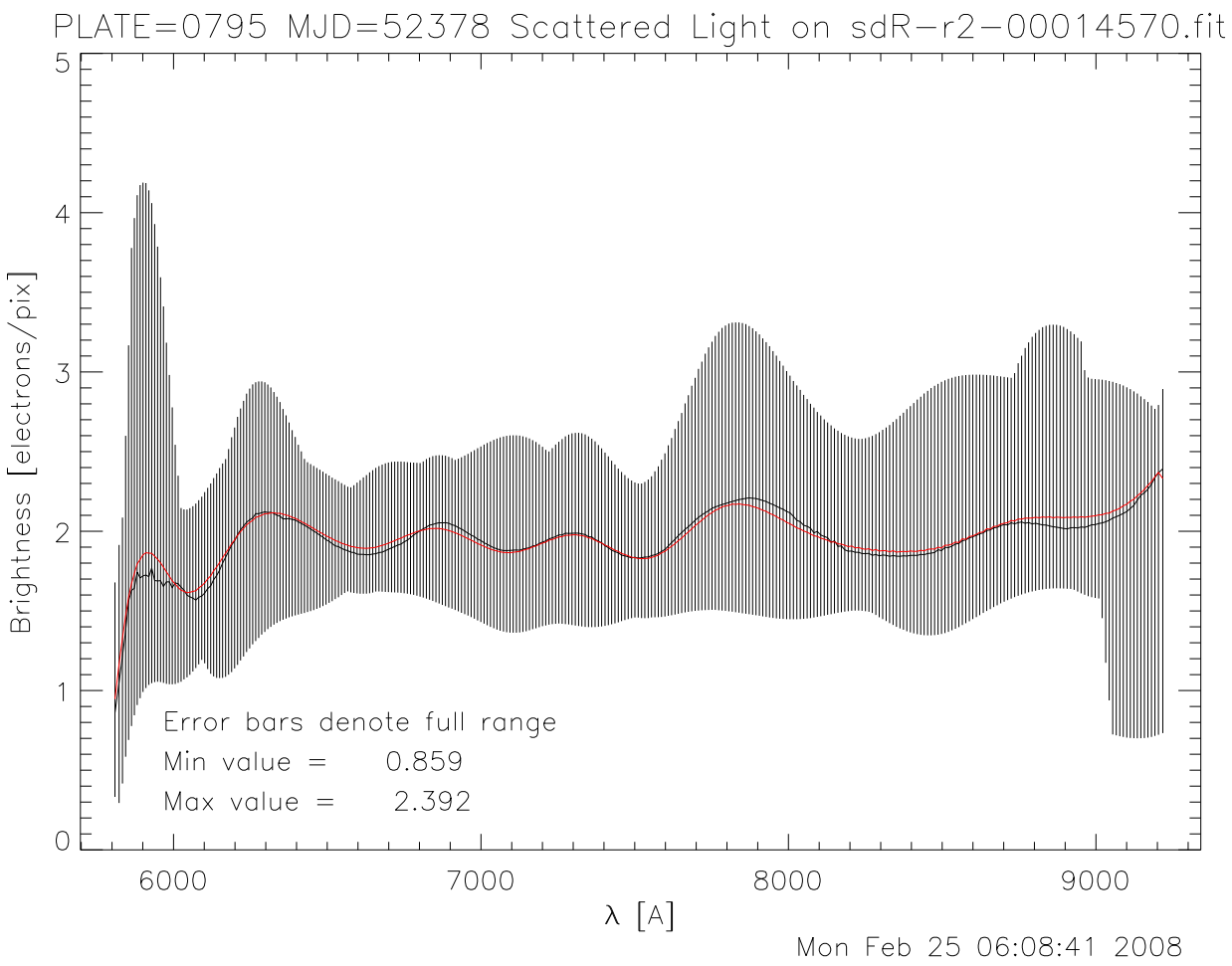

PLATE=0795 MJD=52378 sdR-r2-00014569.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.96 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

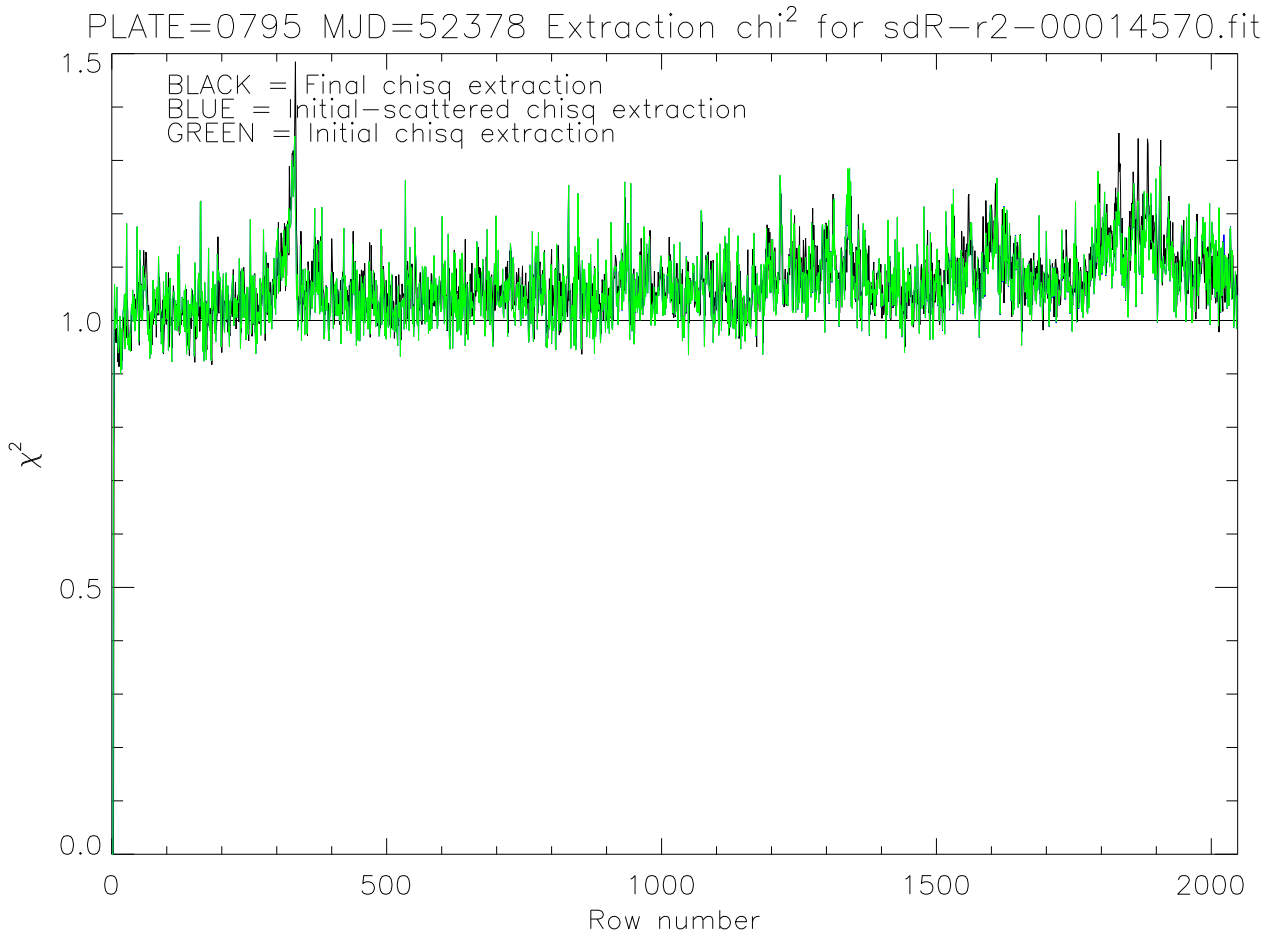

PLATE=0795 MJD=52378 Fiber−Flats for sdR−r2−00014563.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.594
Max value = 1.172
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 06:04:46 2008

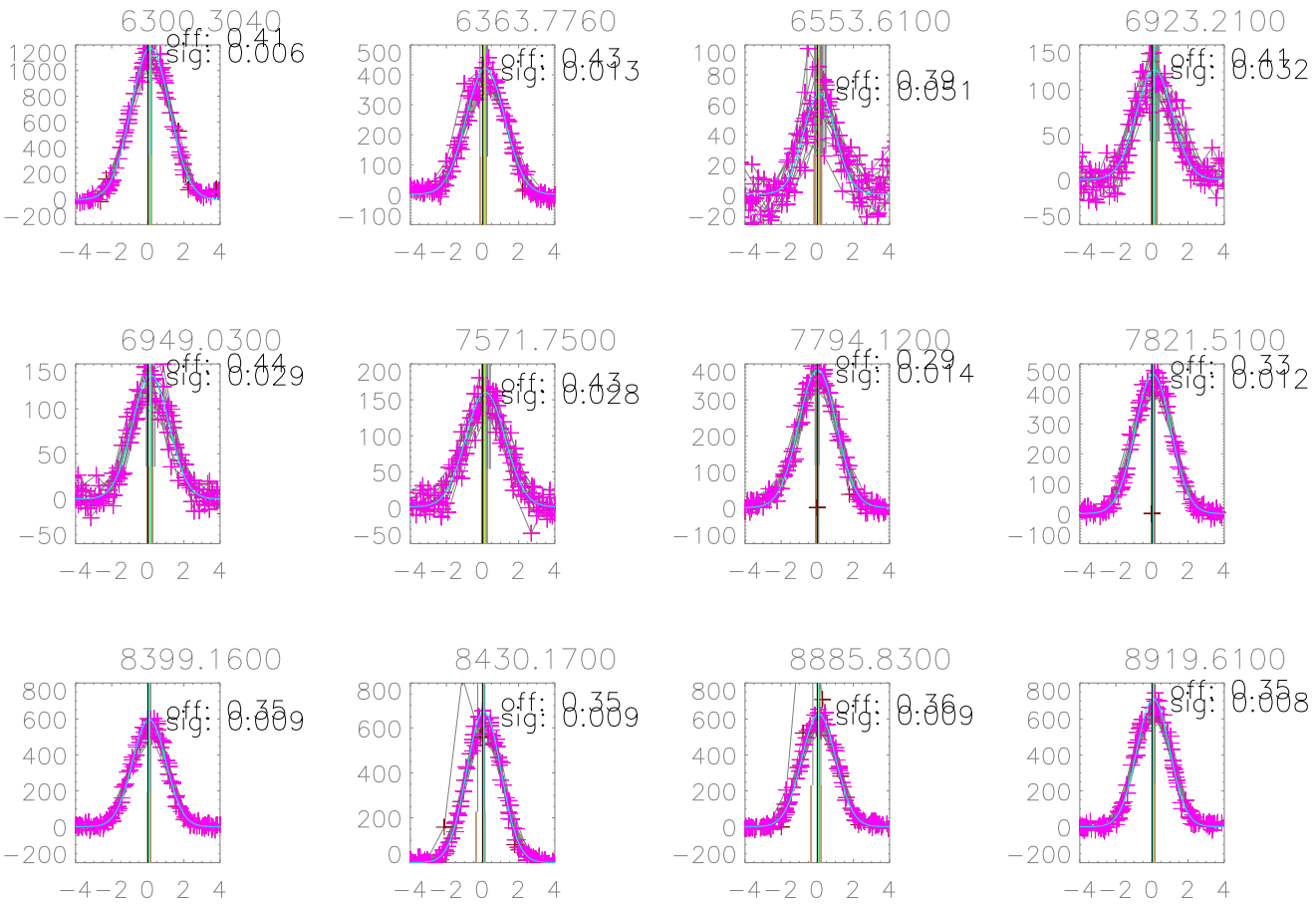

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014570.fi
5.09
6.55
6.55
6.55
5.09
3.64
2.18
2.18
2.18
0.73
Y [pix]
X [pix]
0
500
1000
1500
2000

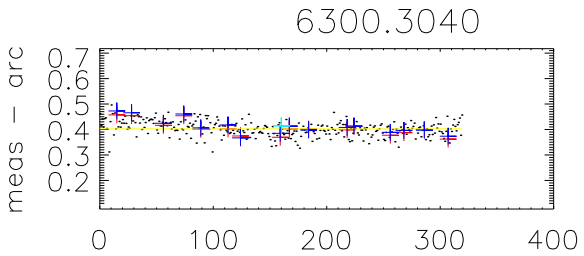

PLATE=0795 MJD=52378 Scattered Light before halo removal on sdR-r2-00014570.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.868
Max value = 6.866
Mon Feb 25 06:05:27 2008

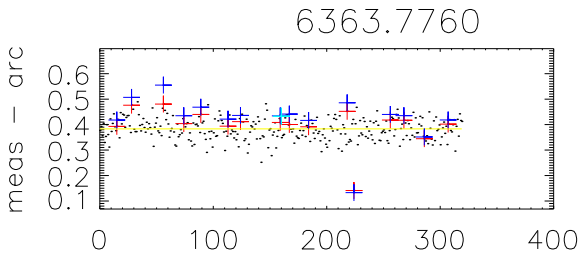

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014570.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.27
1.36
0

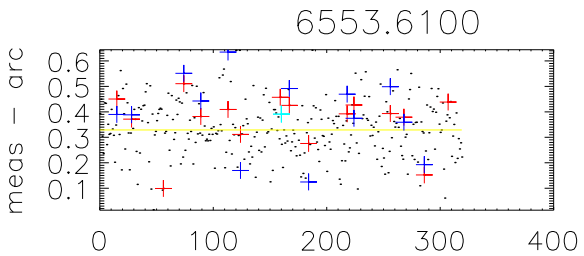

PLATE=0795 MJD=52378 Scattered Light on sdR-r2-00014570.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.859
Max value = 2.392
Mon Feb 25 06:08:41 2008

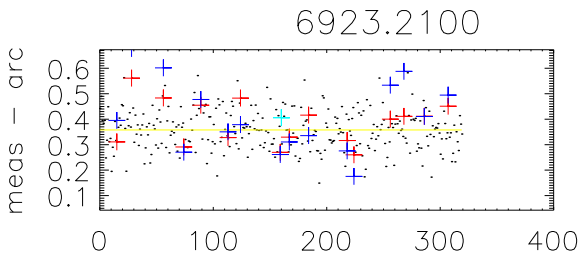

PLATE=0795 MJD=52378 Extraction chi^2 for sdR−r2−00014570.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
1.5
1.0
0.5
0.0
χ^2
0
500
1000
1500
2000
Row number

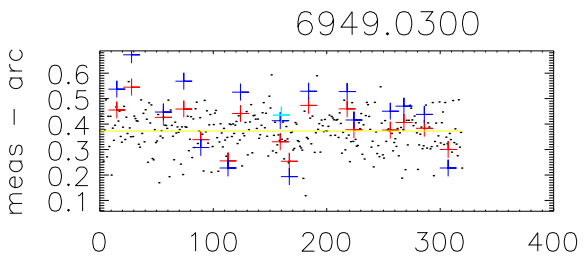

6300.3040
off: 0.41
sig: 0.006
6363.7760
off: 0.43
sig: 0.013
6553.6100
off: 0.39
sig: 0.031
6923.2100
off: 0.41
sig: 0.032
6949.0300
off: 0.44
sig: 0.029
7571.7500
off: 0.43
sig: 0.028
7794.1200
off: 0.29
sig: 0.014
7821.5100
off: 0.33
sig: 0.012
8399.1600
off: 0.35
sig: 0.009
8430.1700
off: 0.35
sig: 0.009
8885.8300
off: 0.36
sig: 0.009
8919.6100
off: 0.35
sig: 0.008

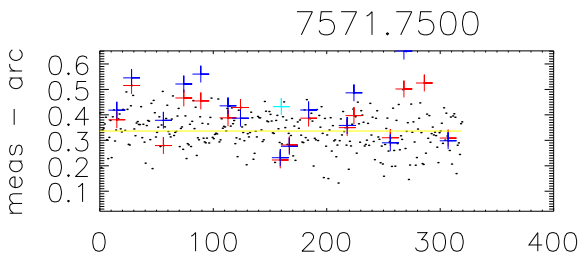

6300.3040
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

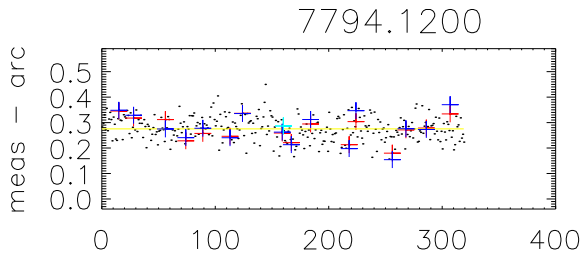

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

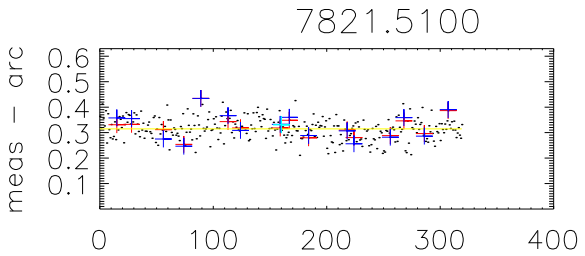

6553.6100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

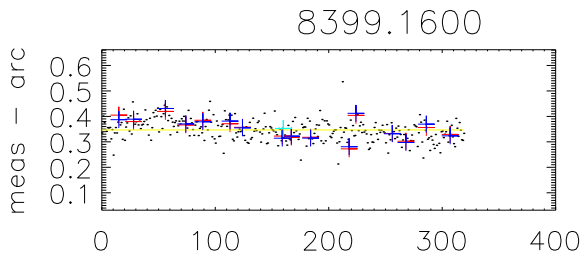

6923.2100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

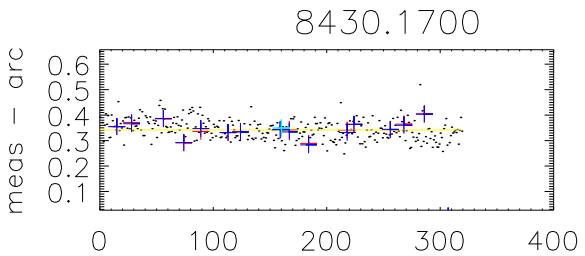

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

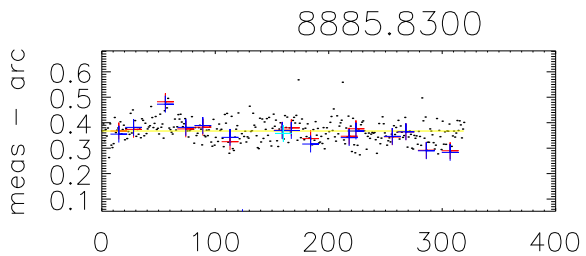

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

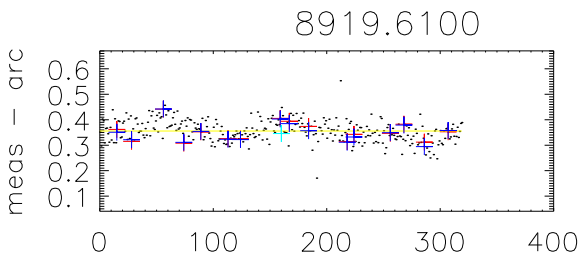

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

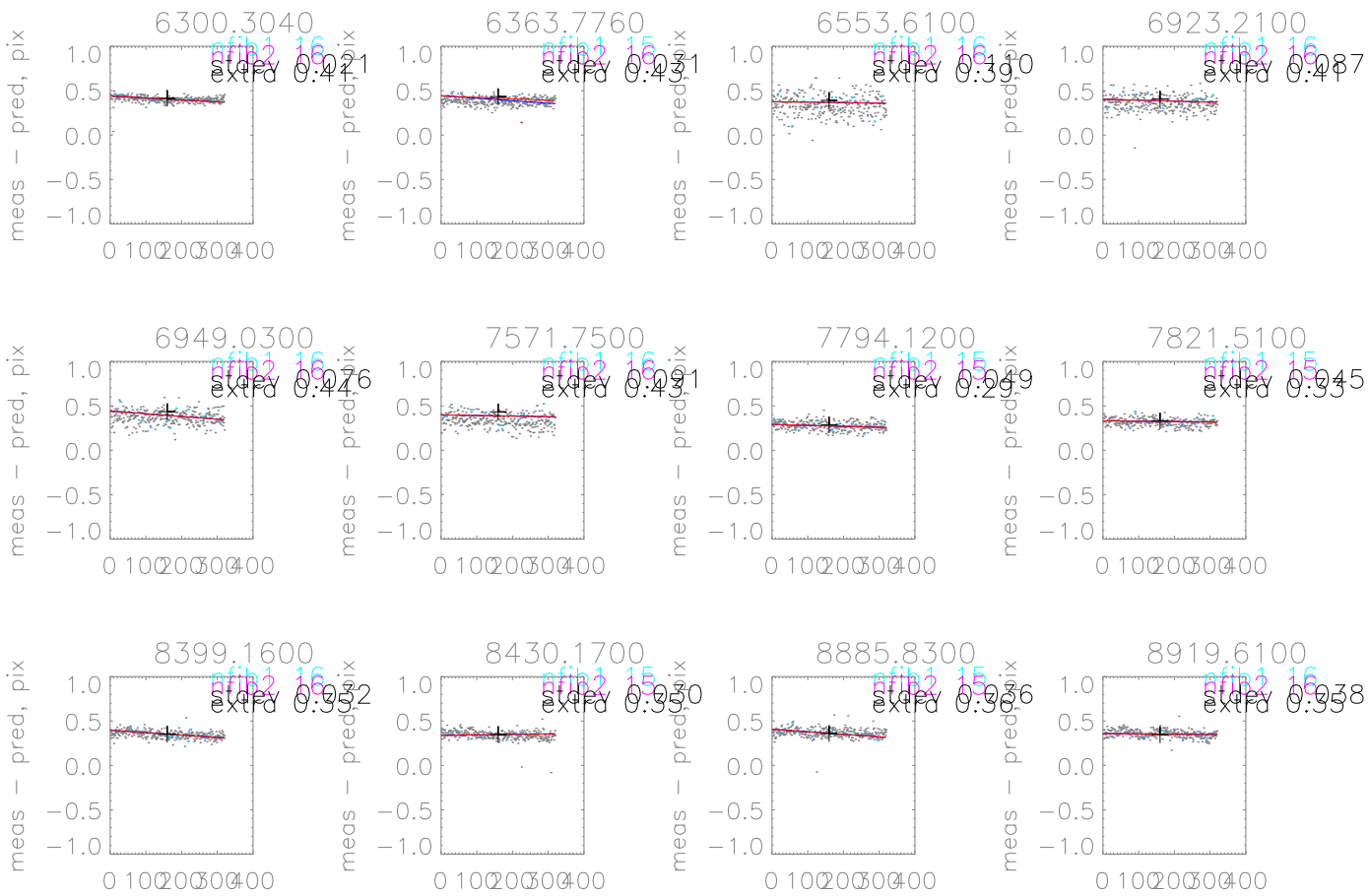

7821.5100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

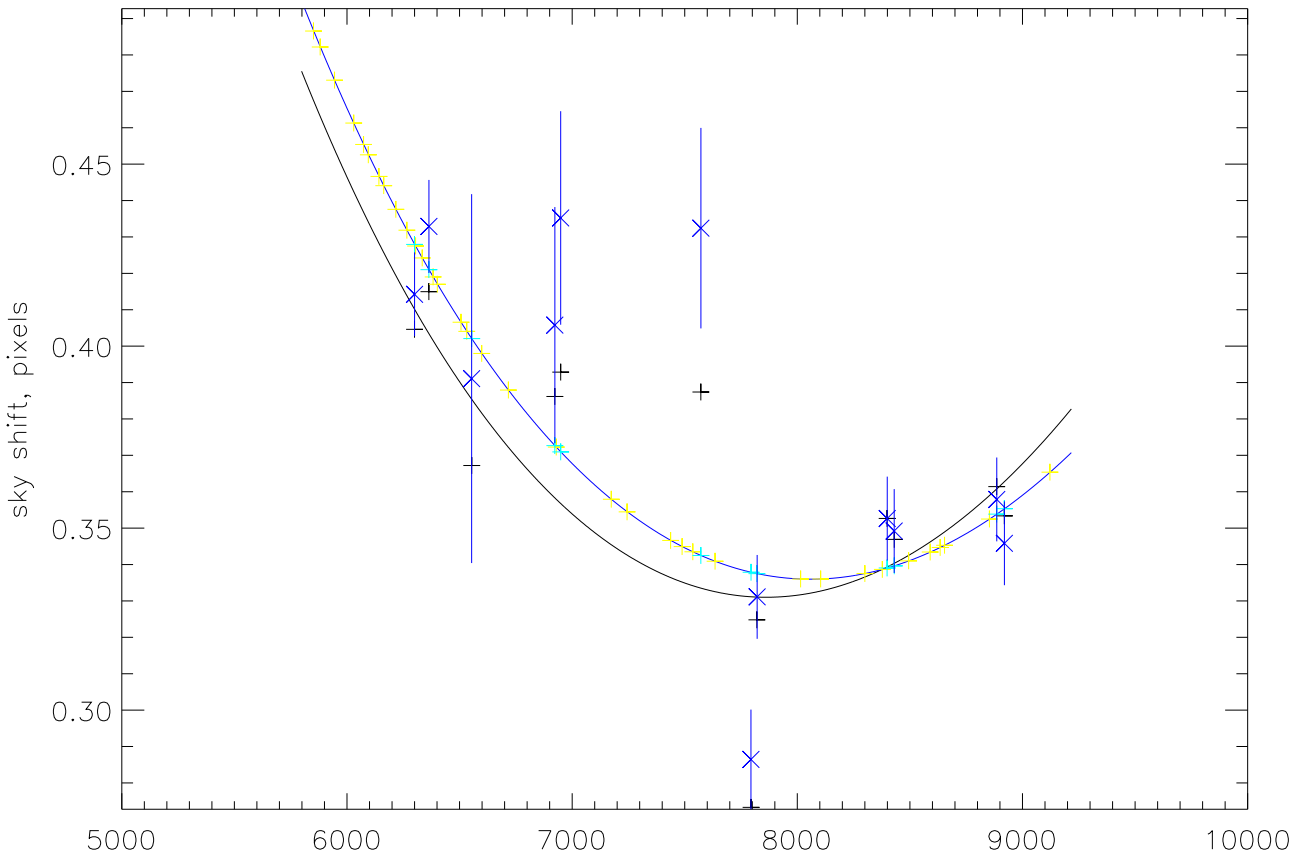

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

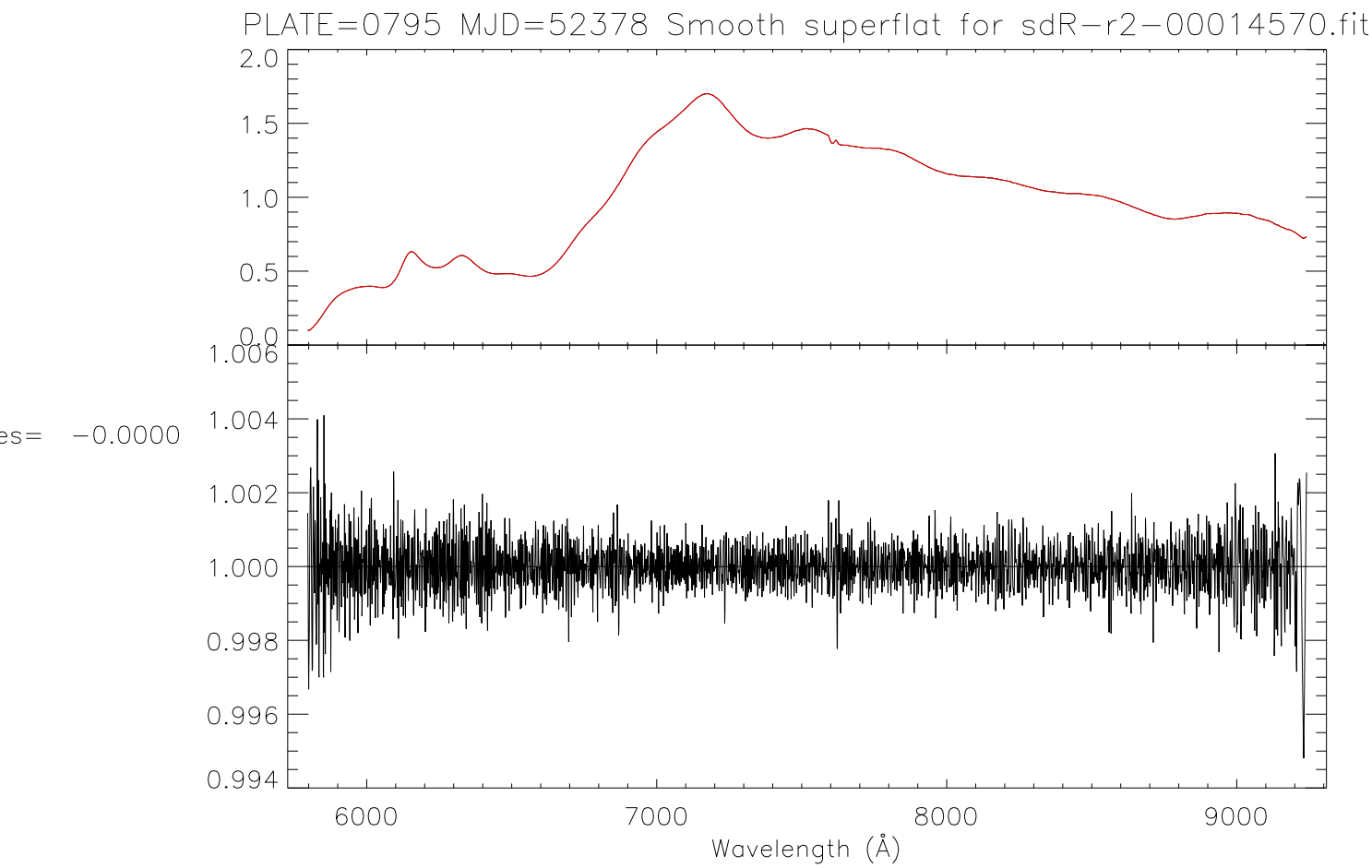

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

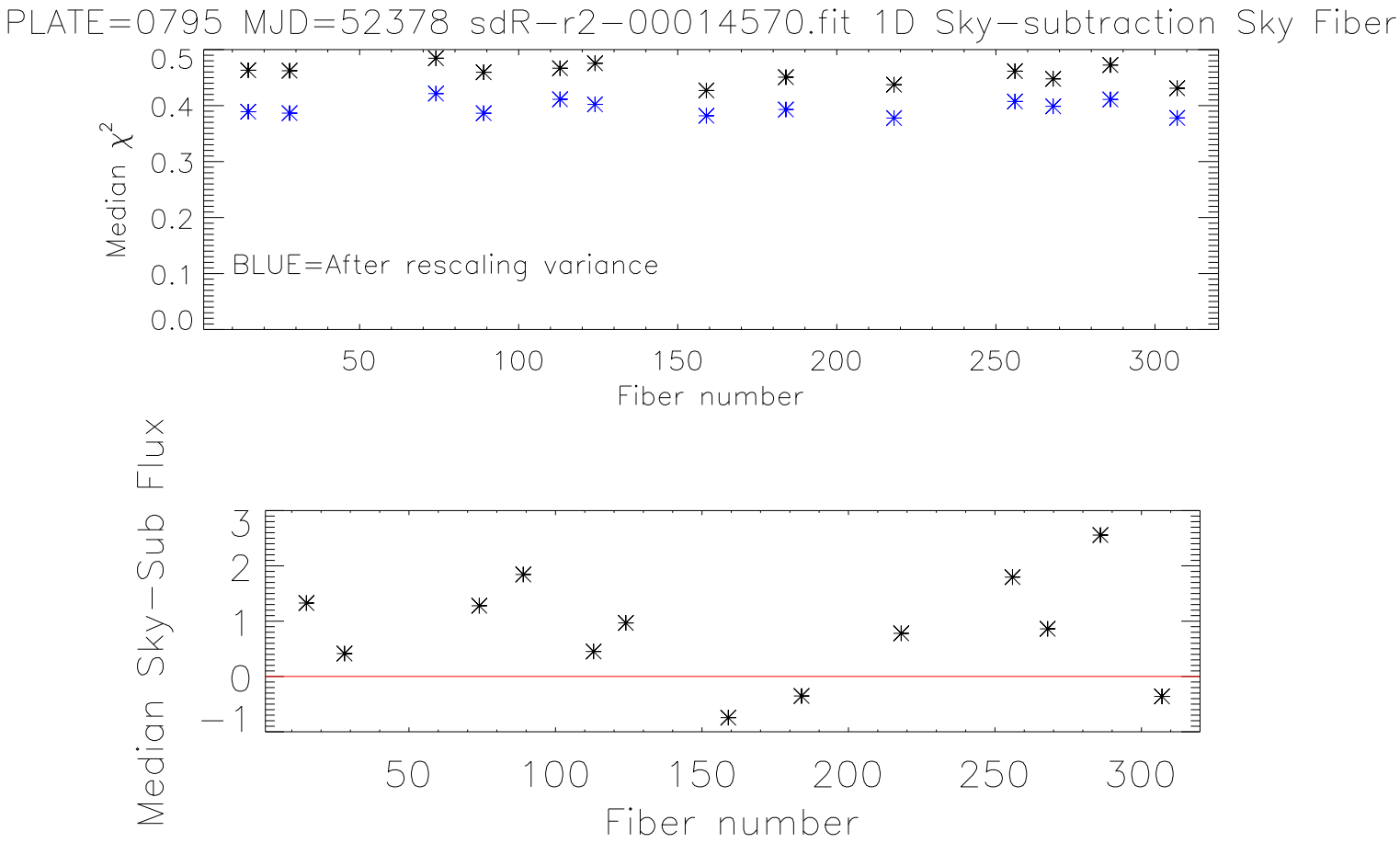

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

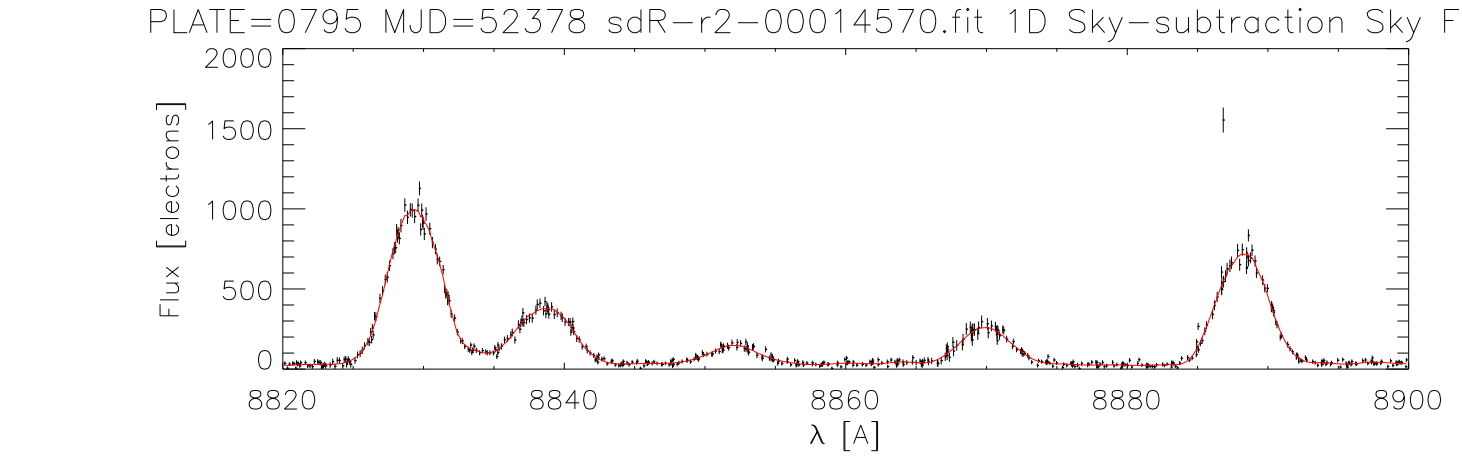

6300.3040
stdev 0.421
extra 0.021
6363.7760
stdev 0.431
extra 0.031
6553.6100
stdev 0.390
extra 0.110
6923.2100
stdev 0.401
extra 0.087
6949.0300
stdev 0.444
extra 0.076
7571.7500
stdev 0.433
extra 0.091
7794.1200
stdev 0.299
extra 0.049
7821.5100
stdev 0.335
extra 0.045
8399.1600
stdev 0.352
extra 0.052
8430.1700
stdev 0.355
extra 0.050
8885.8300
stdev 0.366
extra 0.036
8919.6100
stdev 0.355
extra 0.038
meas − pred, pix
mfb1 16
mfb2 15

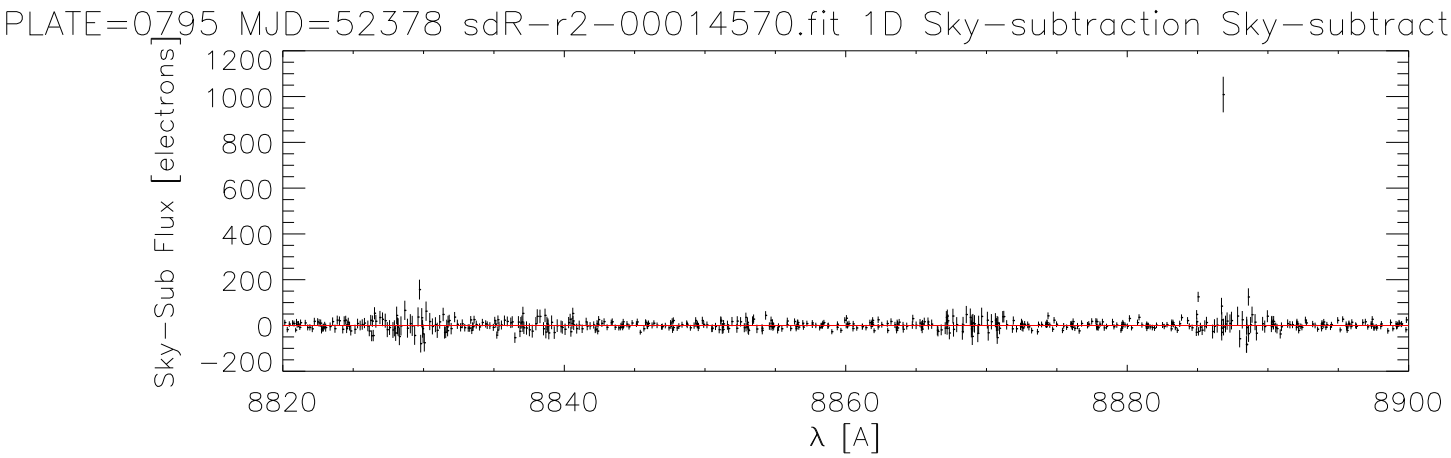

sky shift, pixels
0.45
0.40
0.35
0.30
5000
6000
7000
8000
9000
10000

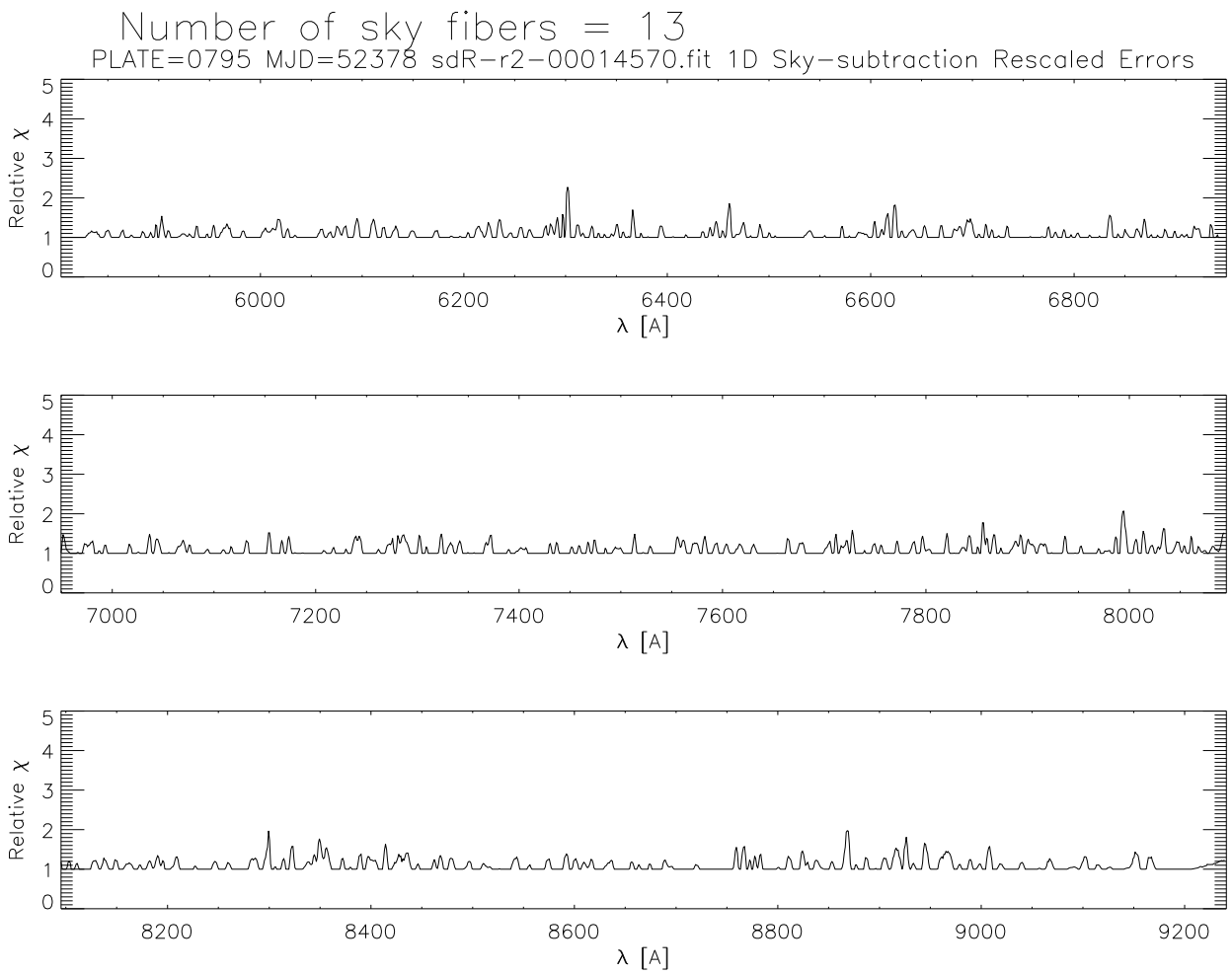

PLATE=0795 MJD=52378 Smooth superflat for sdR-r2-00014570.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

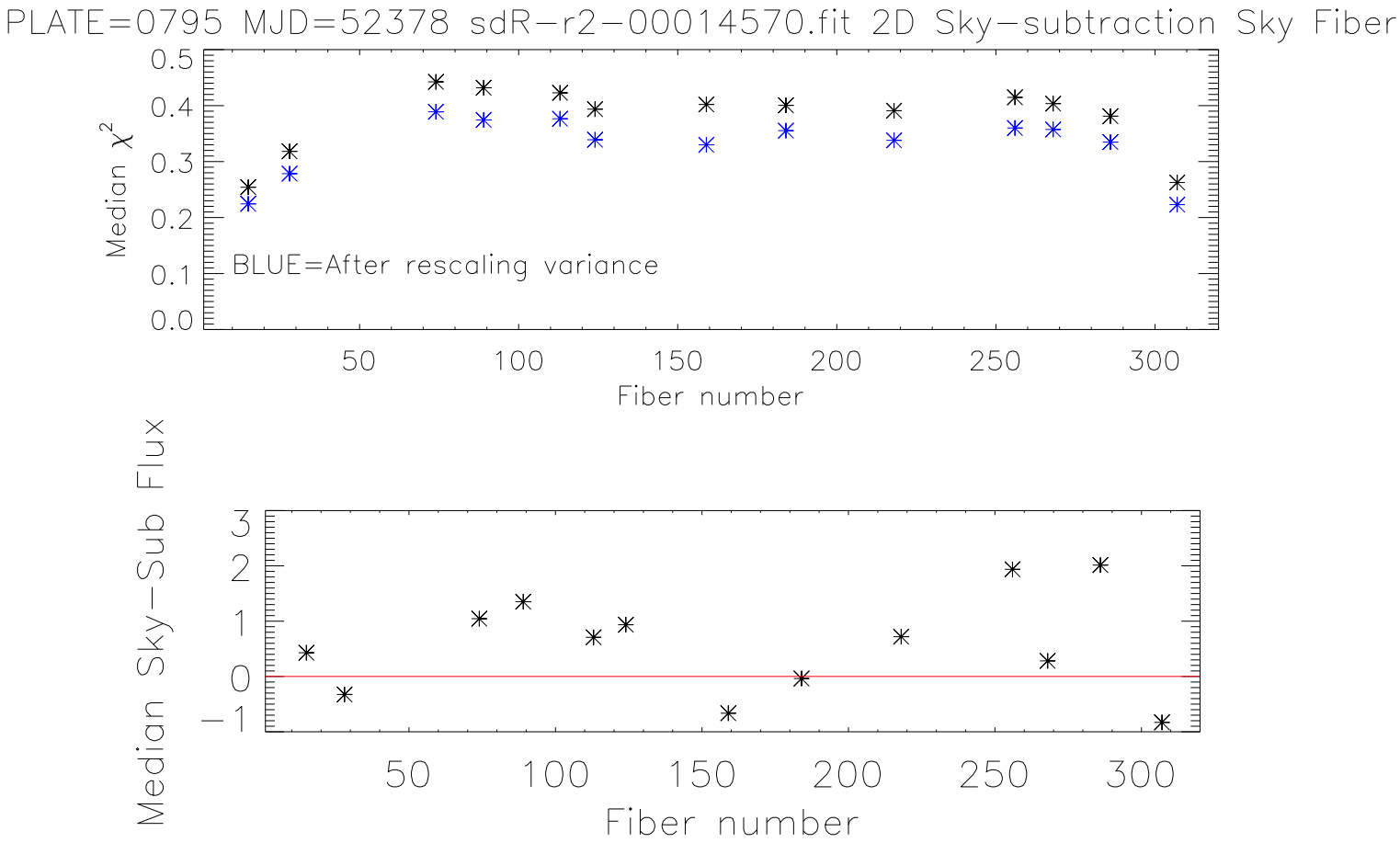
es= −0.0000

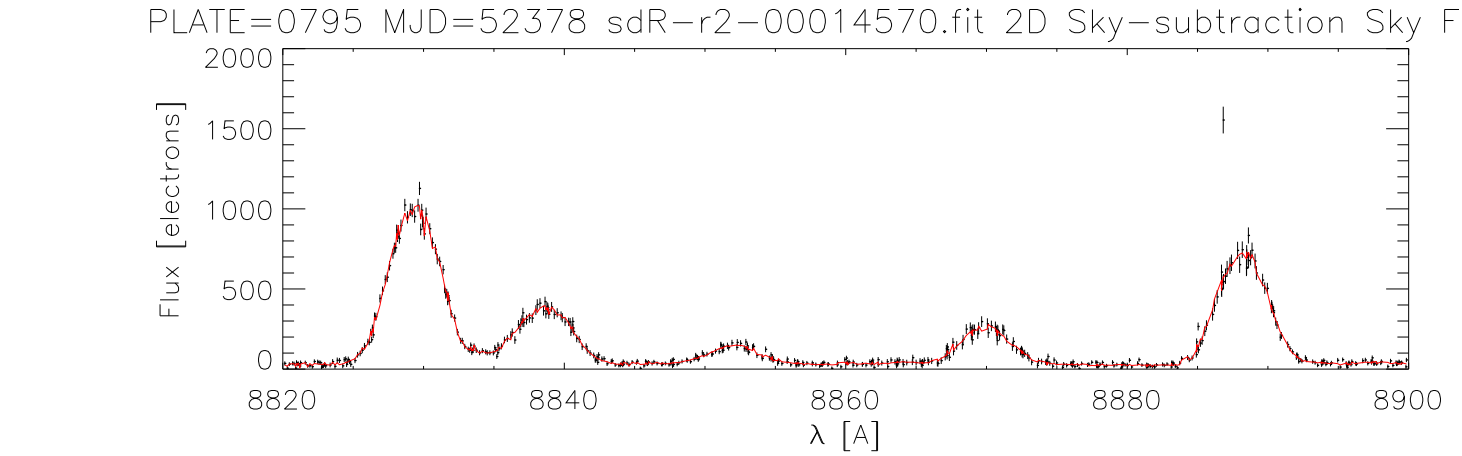

PLATE=0795 MJD=52378 sdR-r2-00014570.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

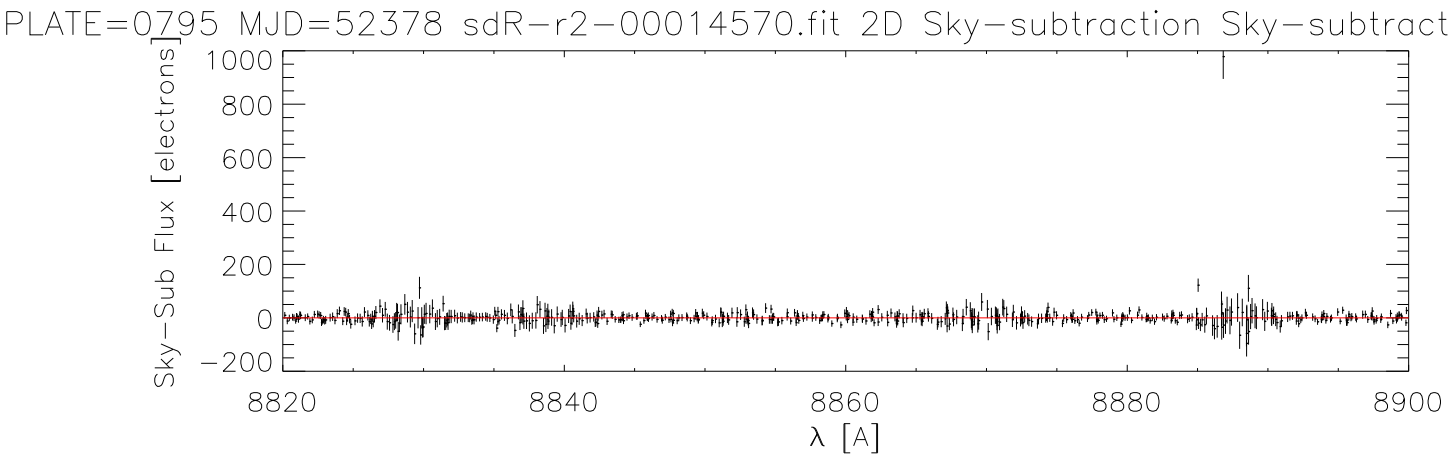

PLATE=0795 MJD=52378 sdR-r2-00014570.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

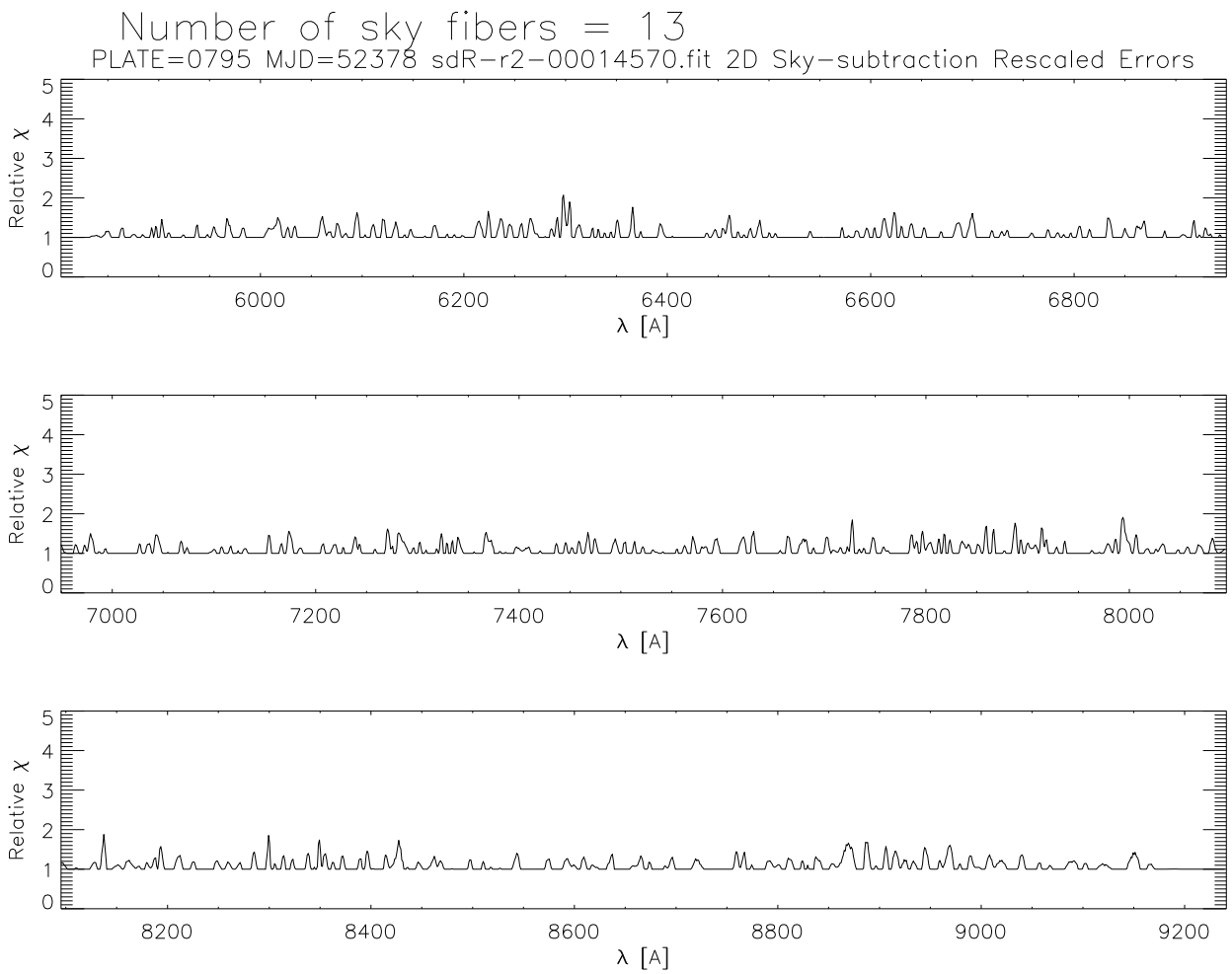

PLATE=0795 MJD=52378 sdR-r2-00014570.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

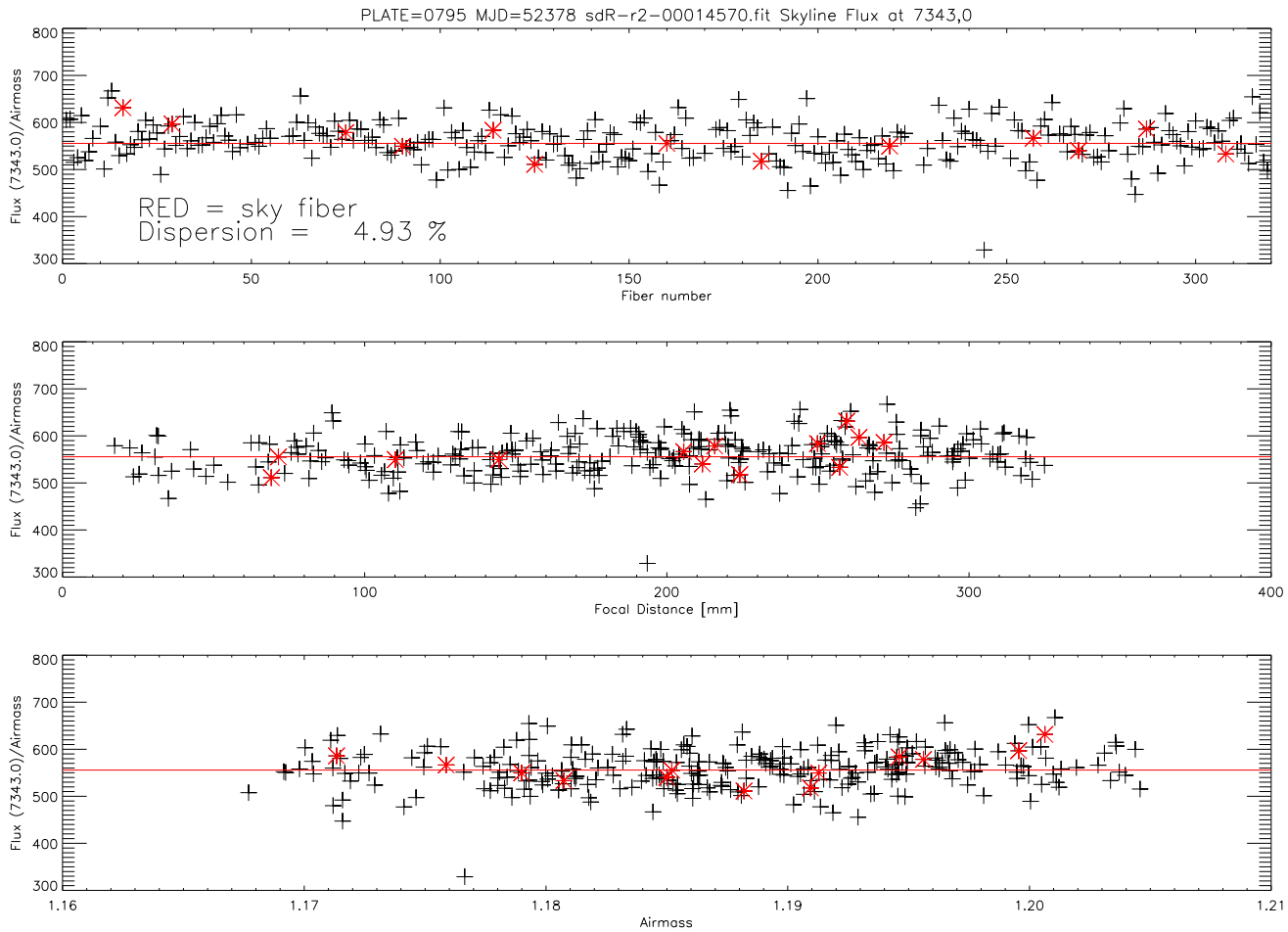

Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014570.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

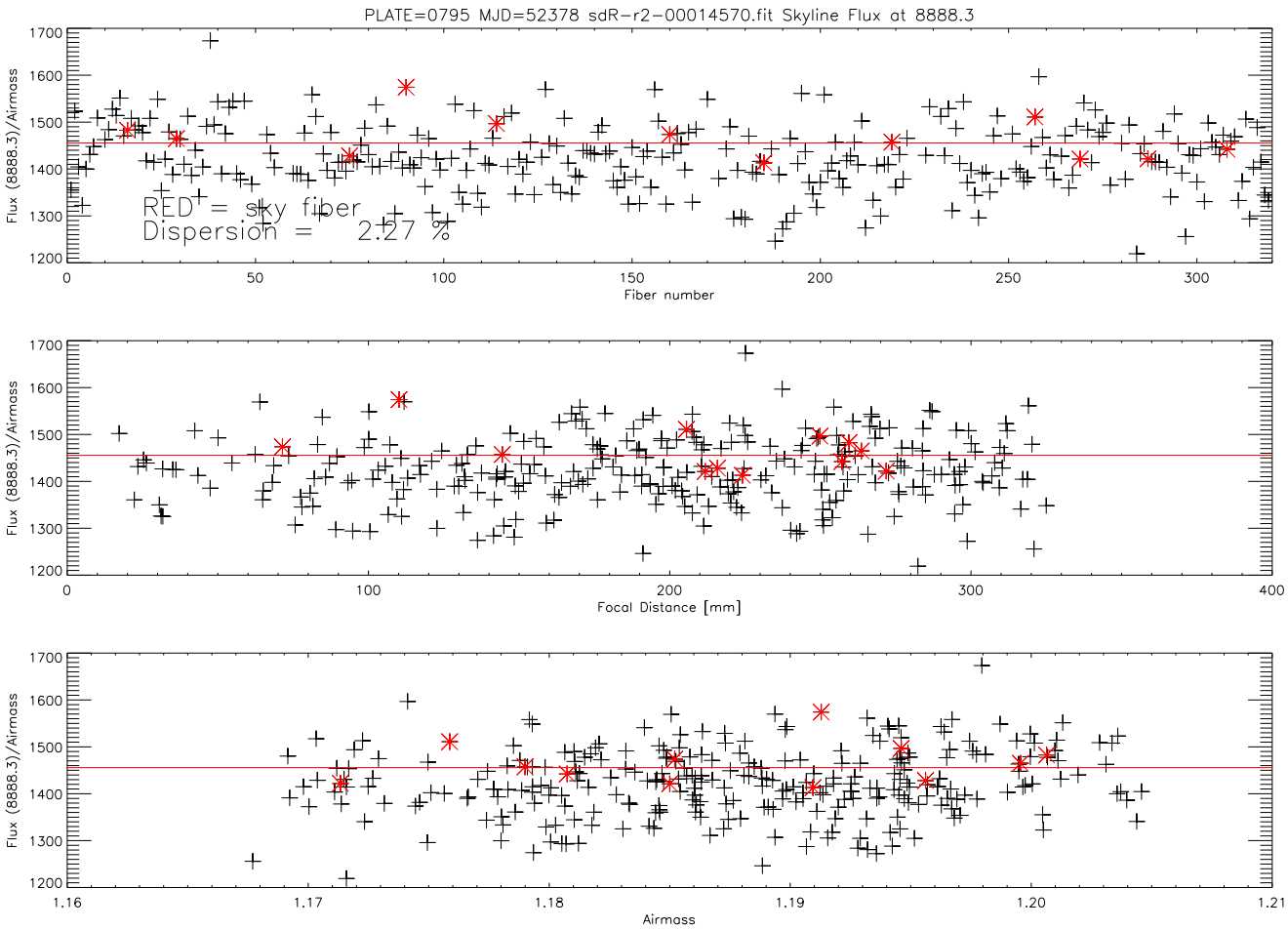

PLATE=0795 MJD=52378 sdR-r2-00014570.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0795 MJD=52378 sdR-r2-00014570.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]


PLATE=0795 MJD=52378 sdR-r2-00014570.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 13
PLATE=0795 MJD=52378 sdR-r2-00014570.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=0795 MJD=52378 sdR-r2-00014570.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.93 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0795 MJD=52378 sdR-r2-00014570.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.27 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass