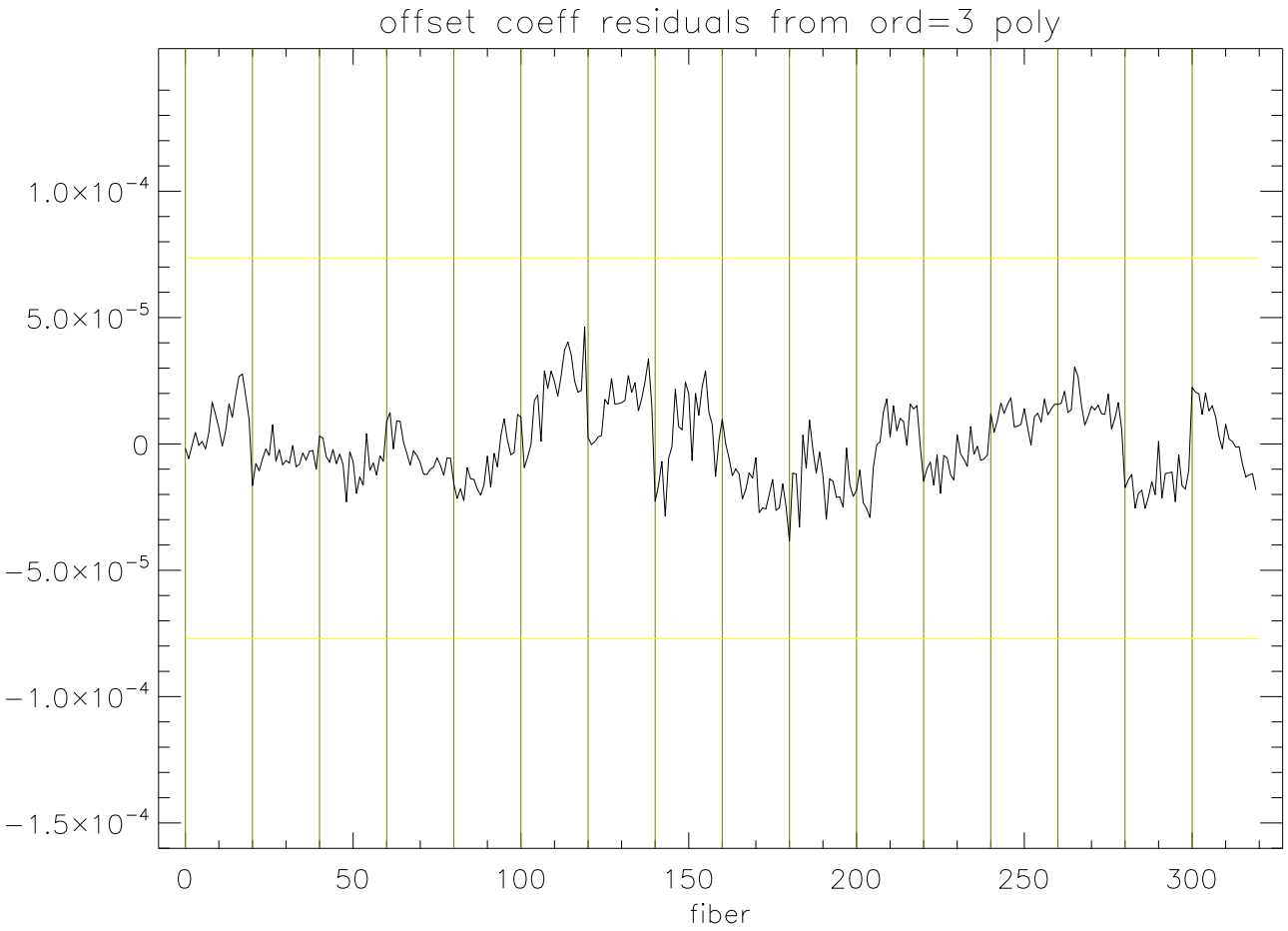
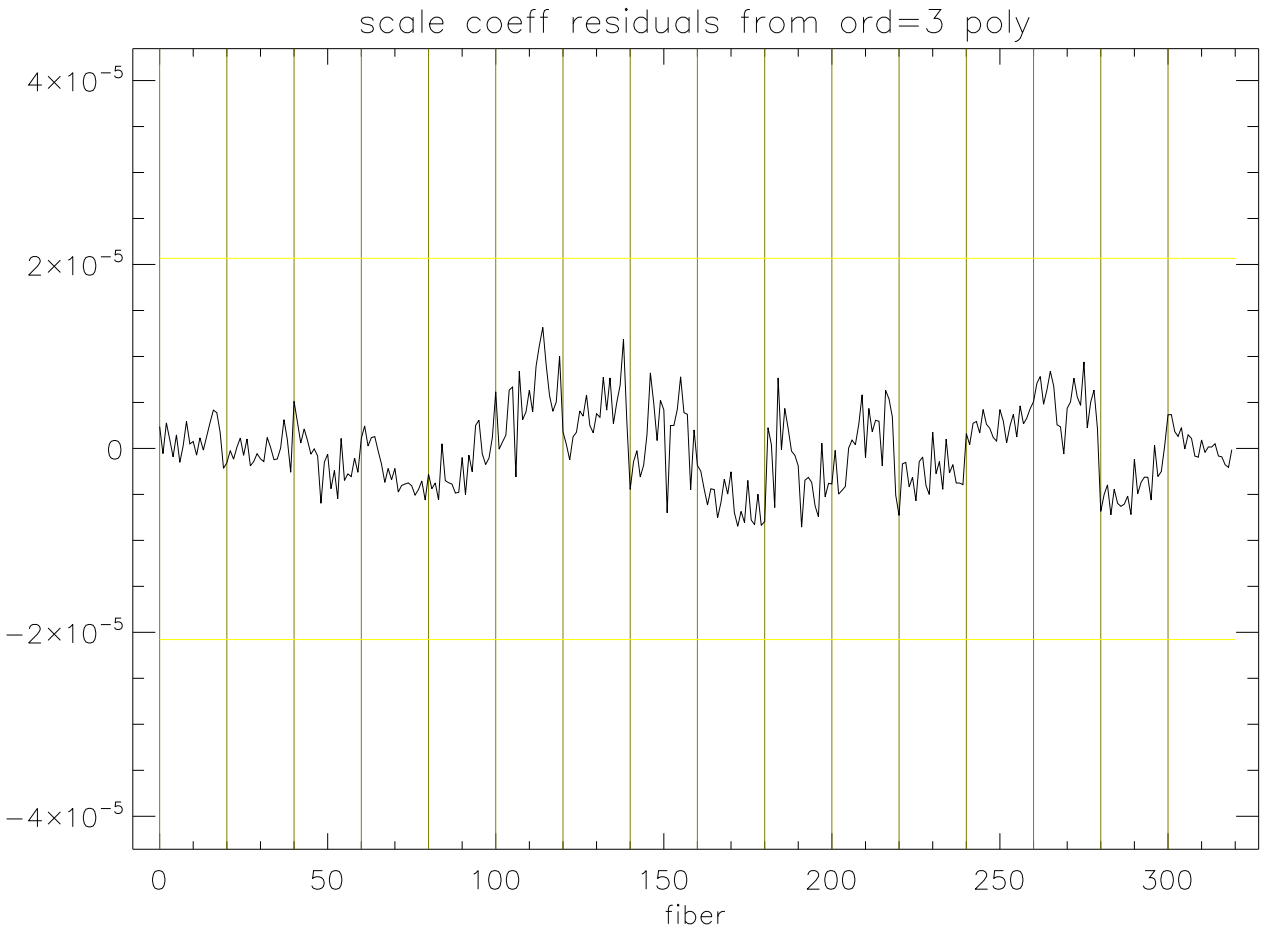
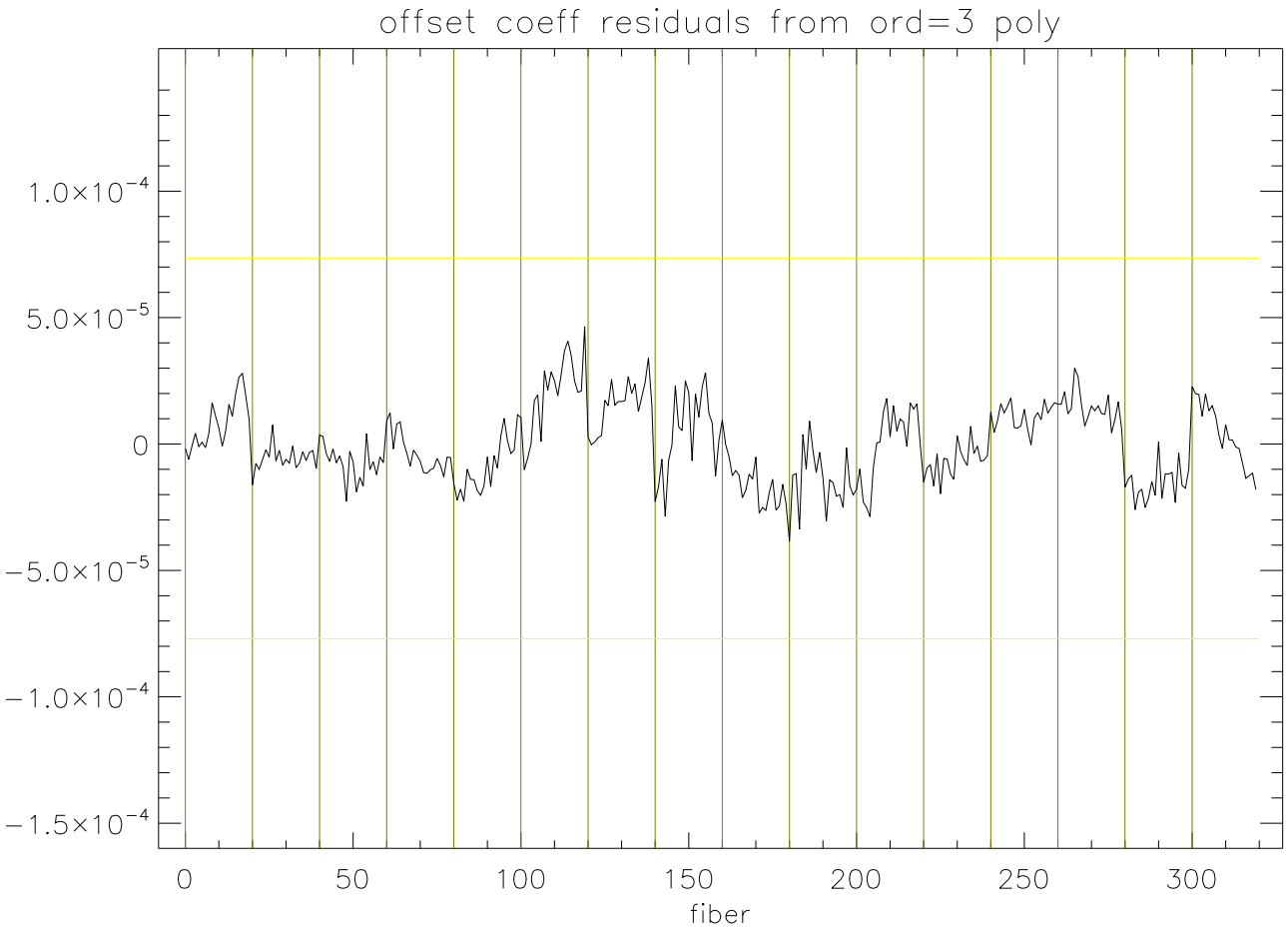
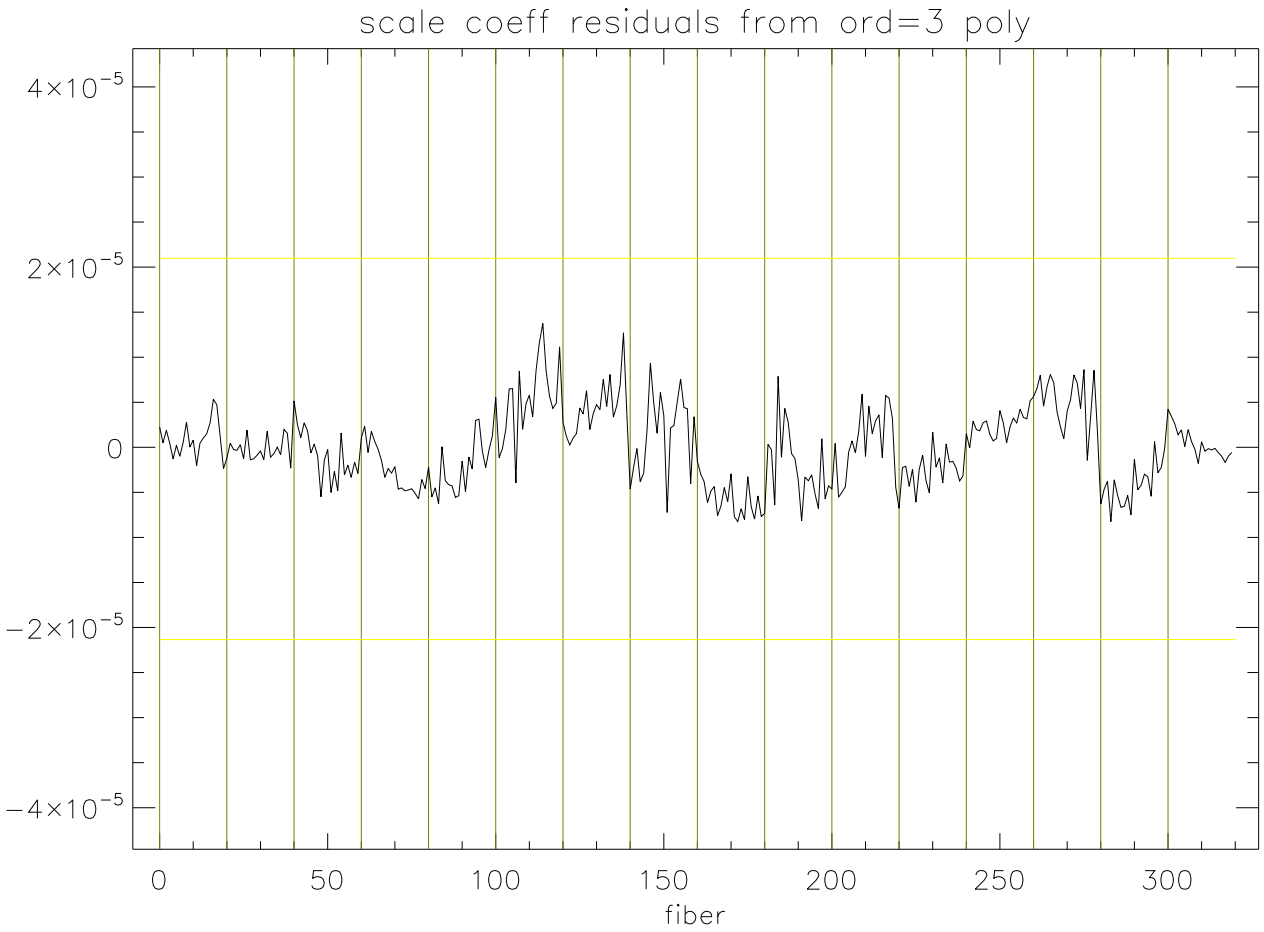
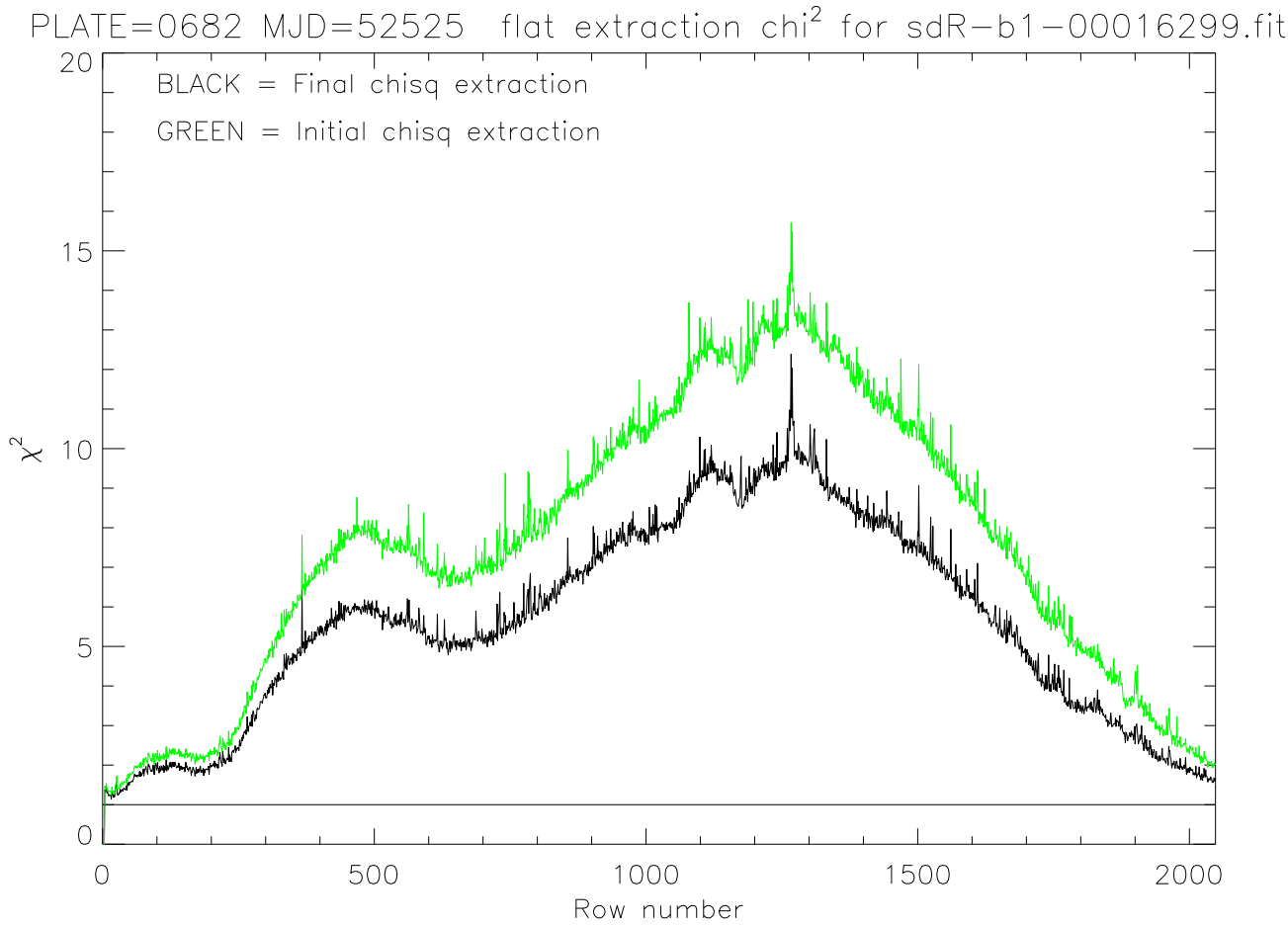
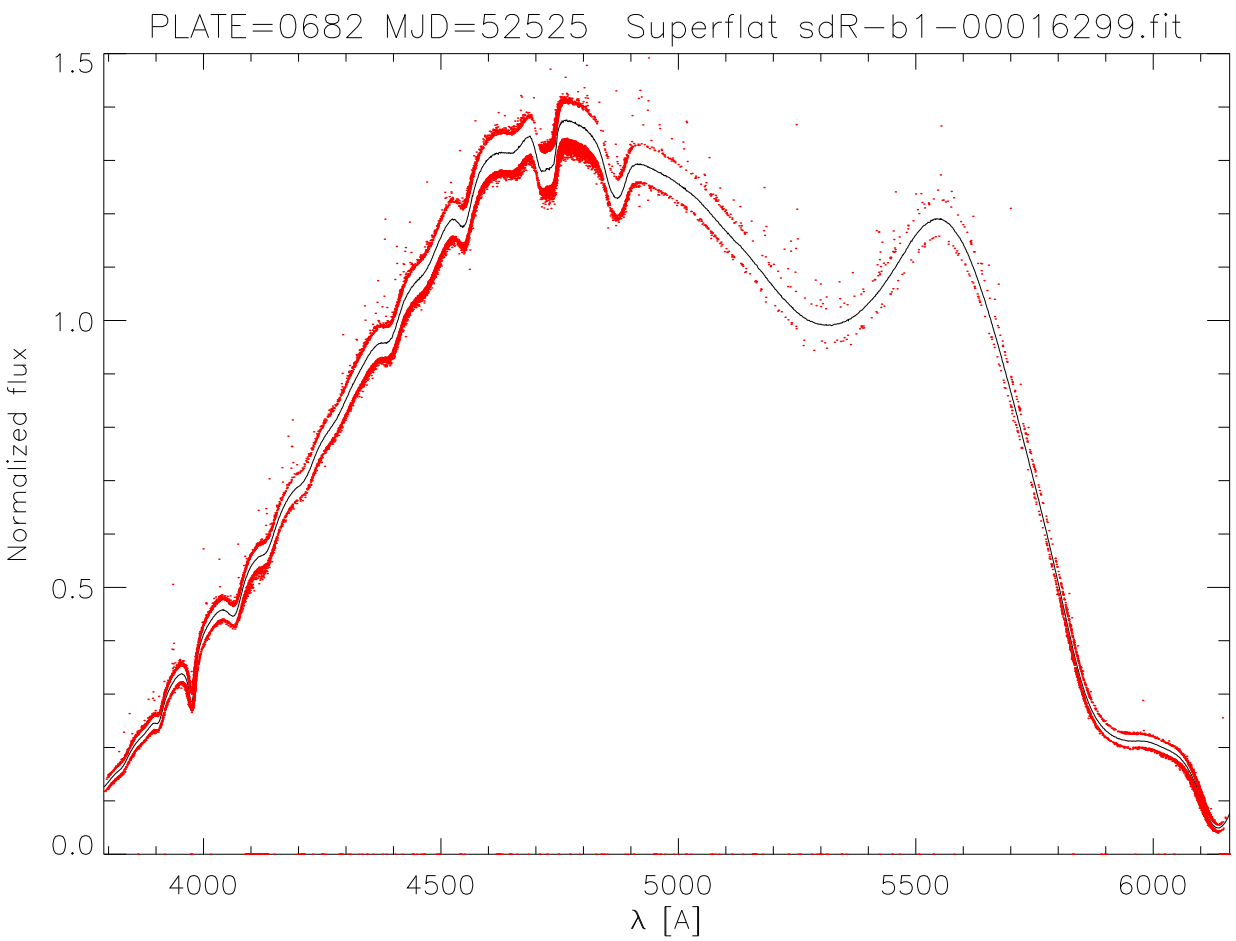

offset coeff residuals from ord=3 poly
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

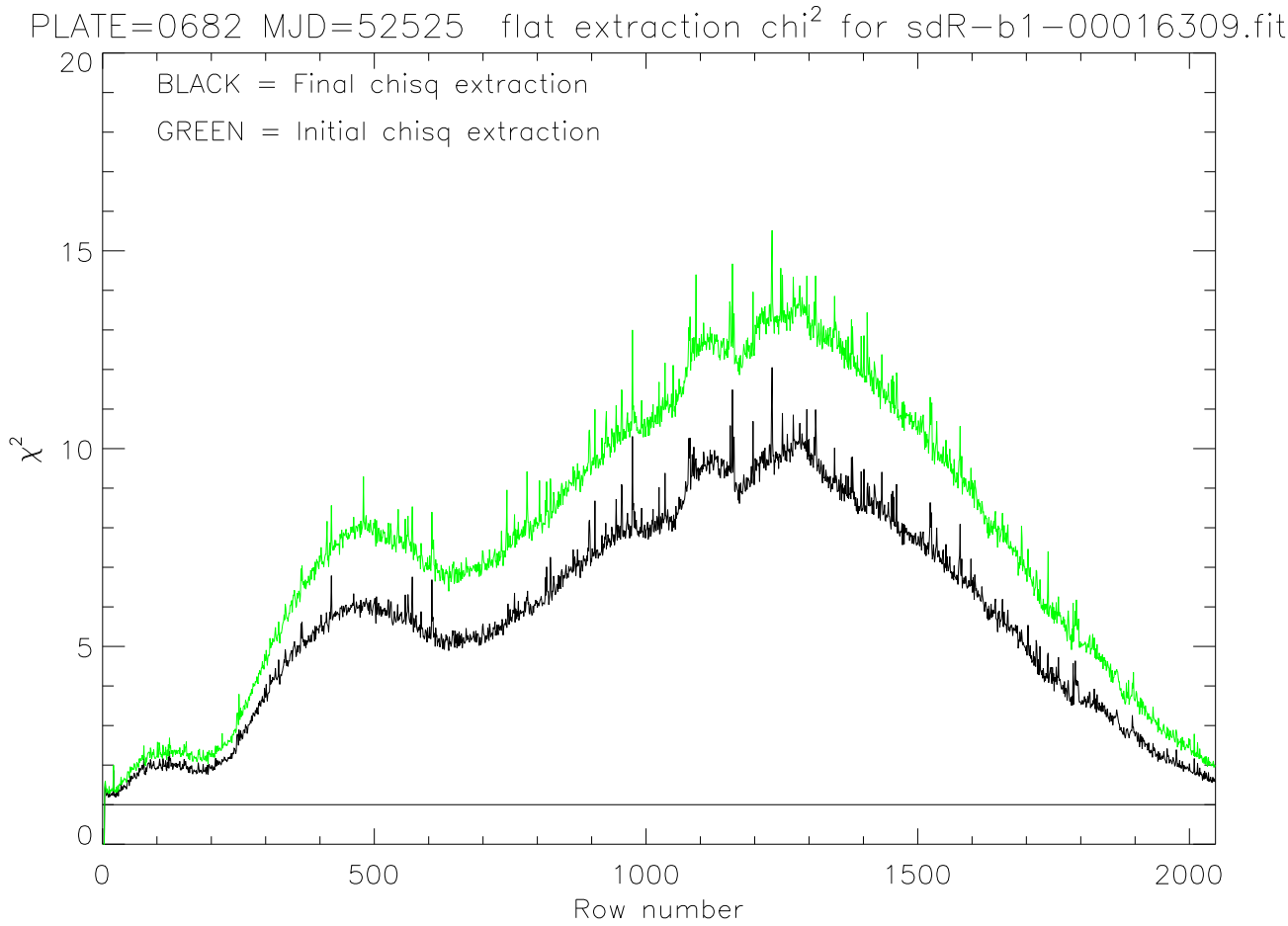

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

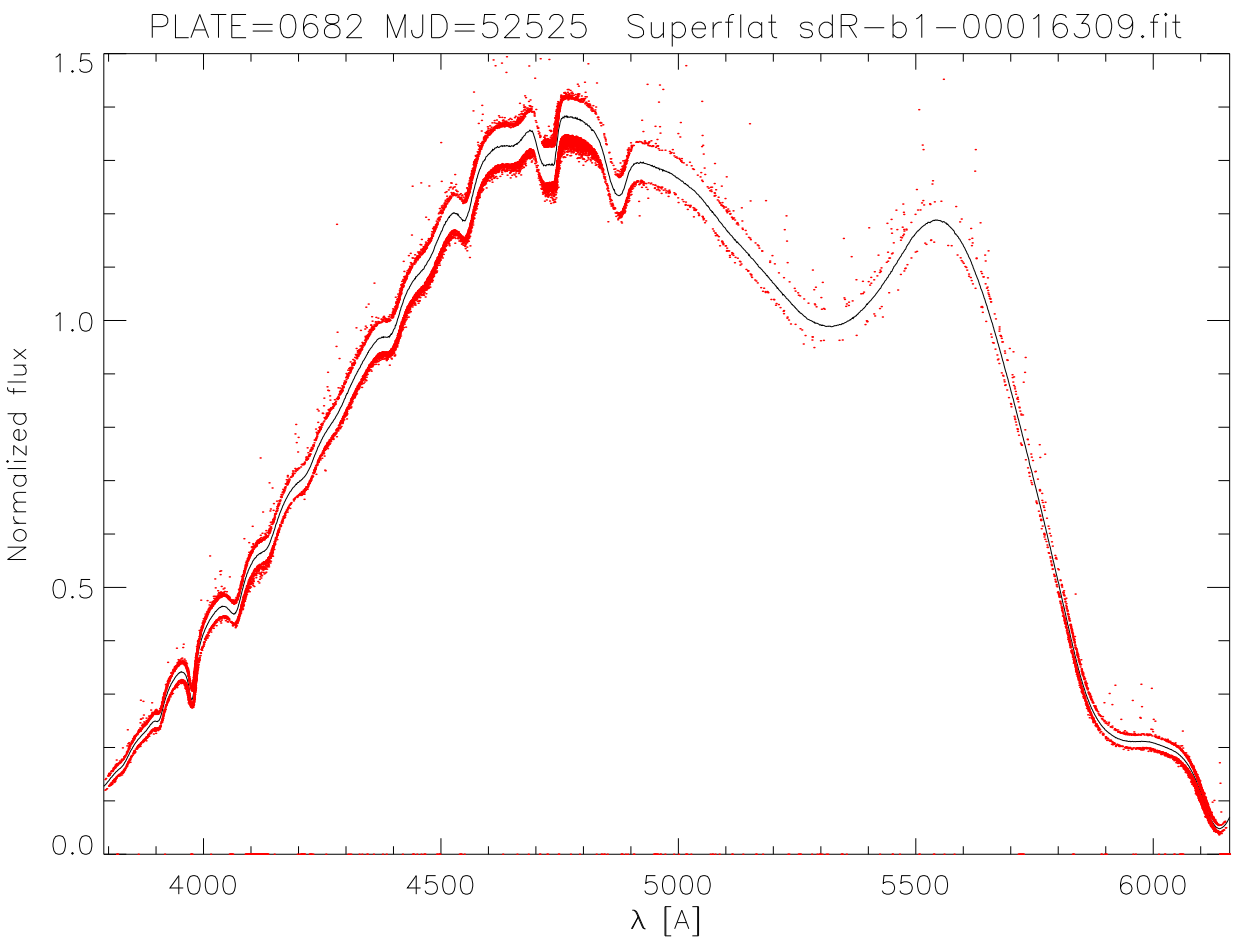

offset coeff residuals from ord=3 poly
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

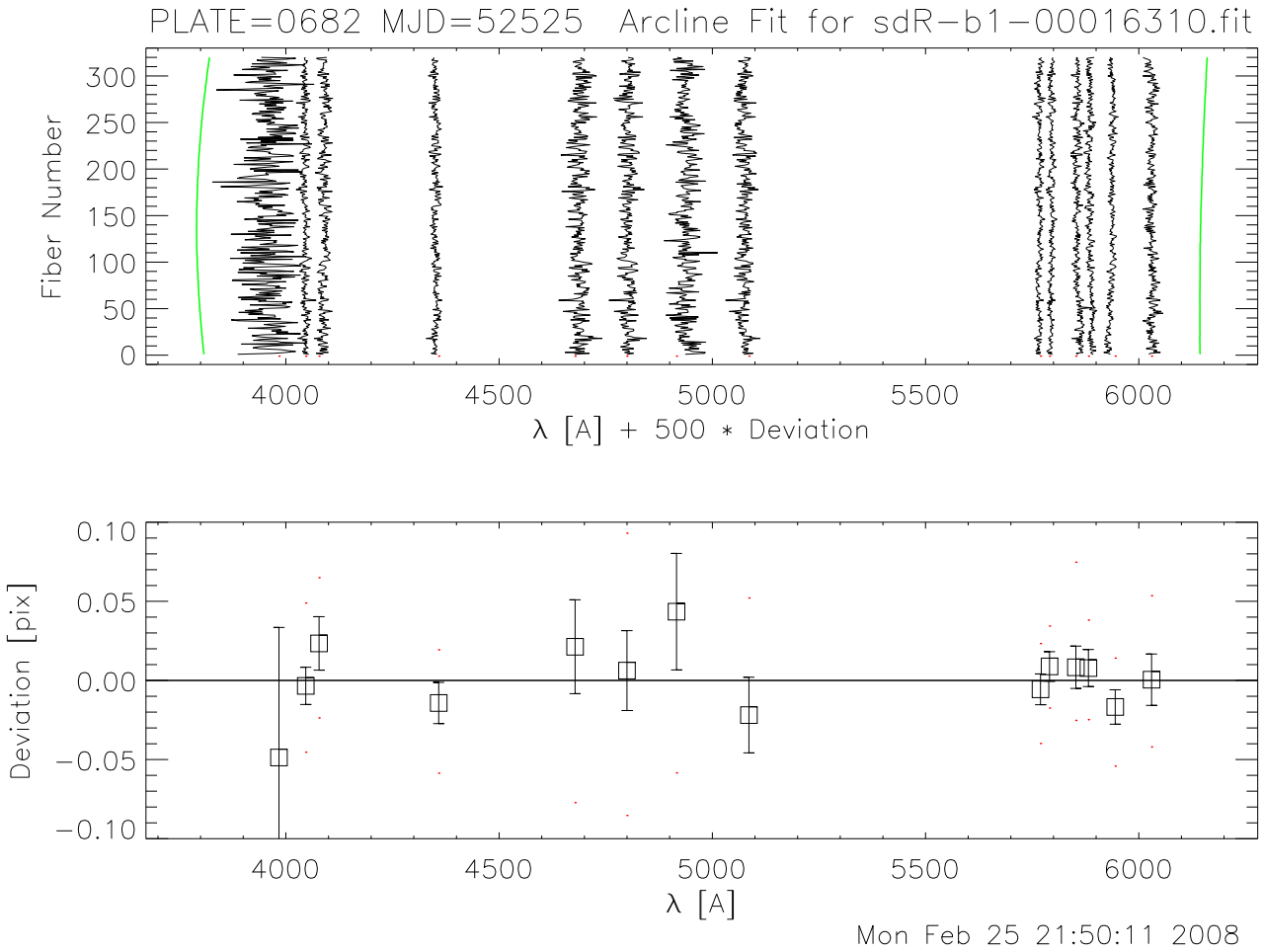

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

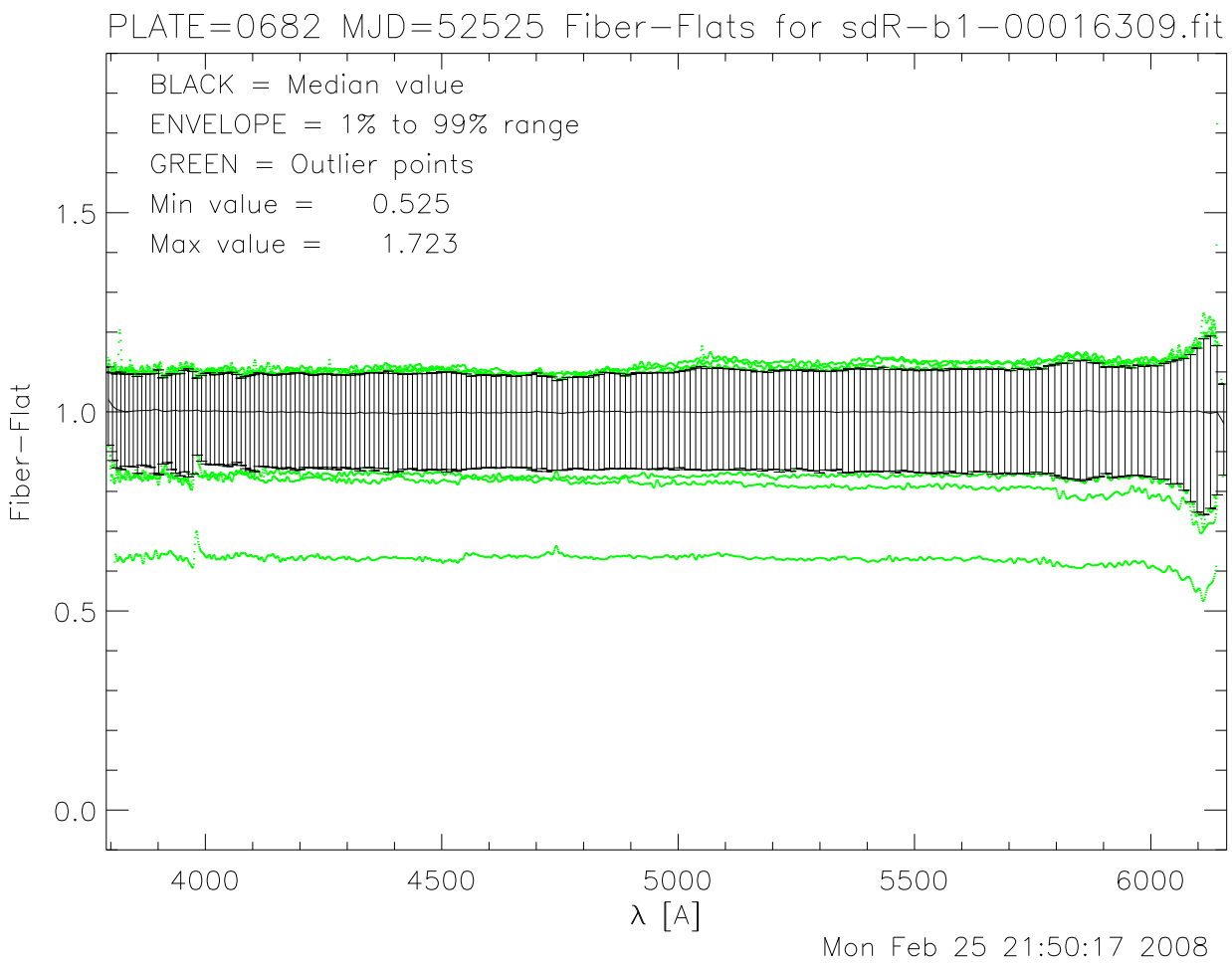

PLATE=0682 MJD=52525 flat extraction chi$^2$ for sdR−b1−00016299.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
Row number
0
5
10
15
20
0
500
1000
1500
2000

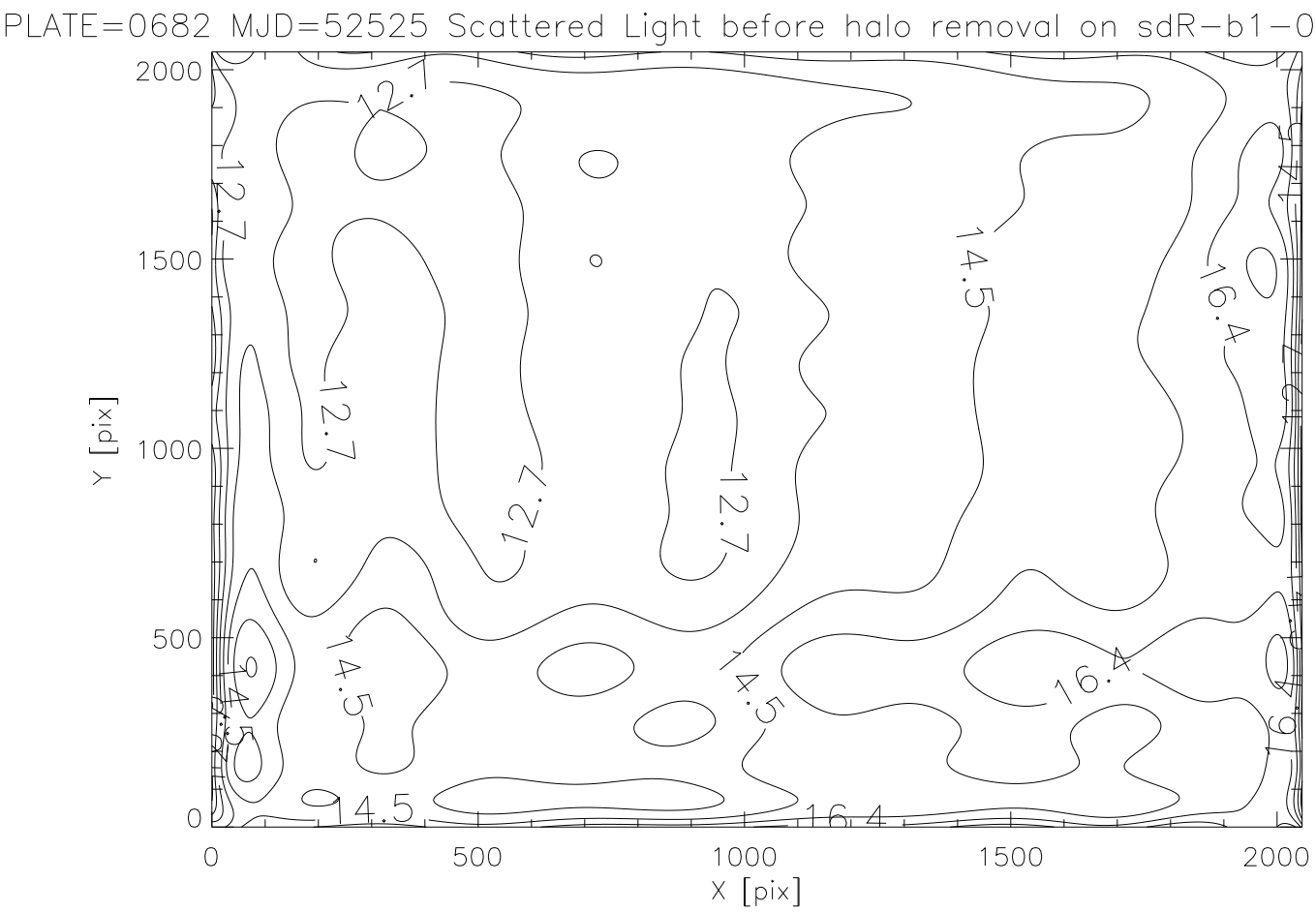

PLATE=0682 MJD=52525 Superflat sdR-b1-00016299.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

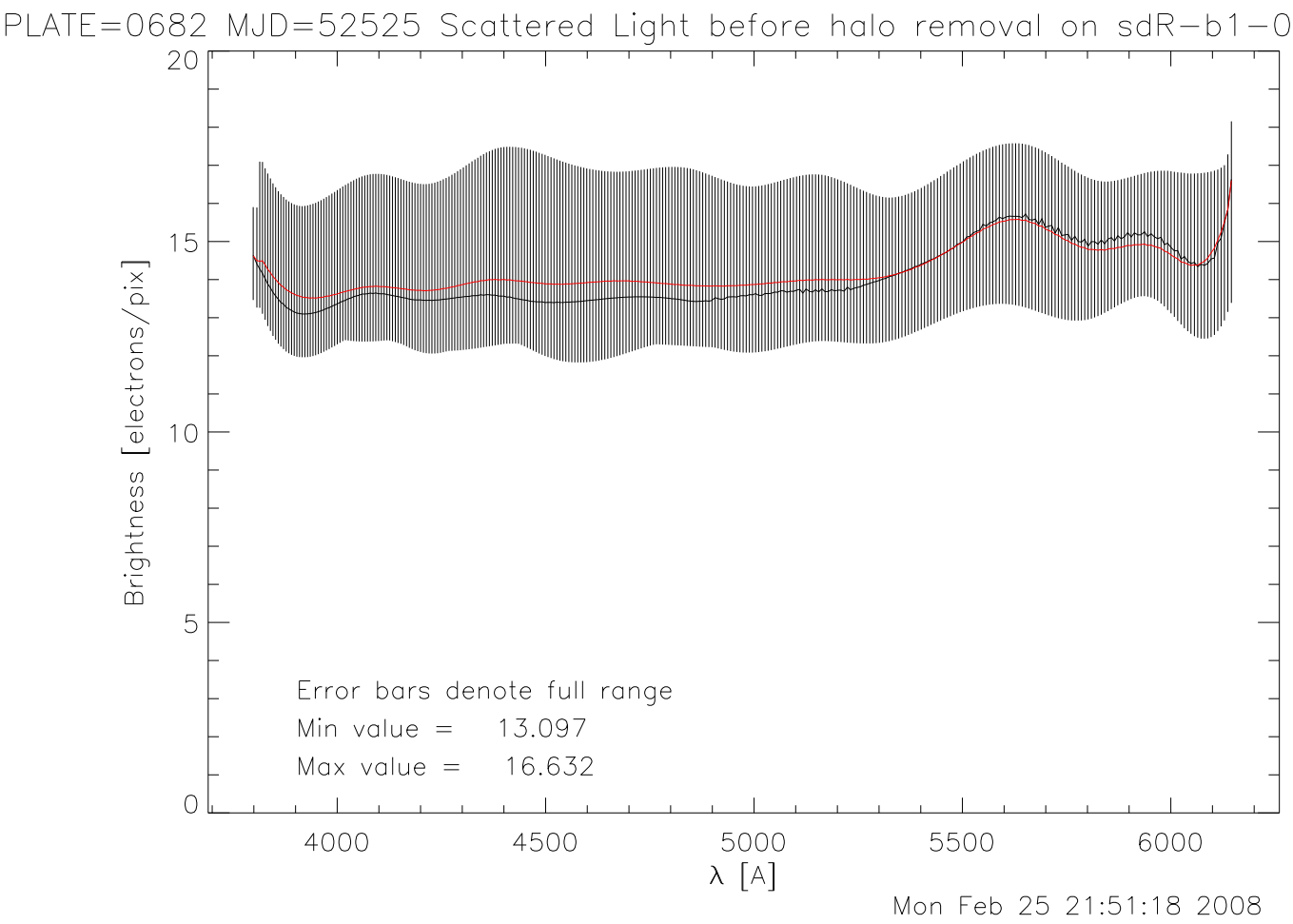

PLATE=0682 MJD=52525 flat extraction chi$^2$ for sdR−b1−00016309.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
Row number
0
5
10
15
20
0
500
1000
1500
2000

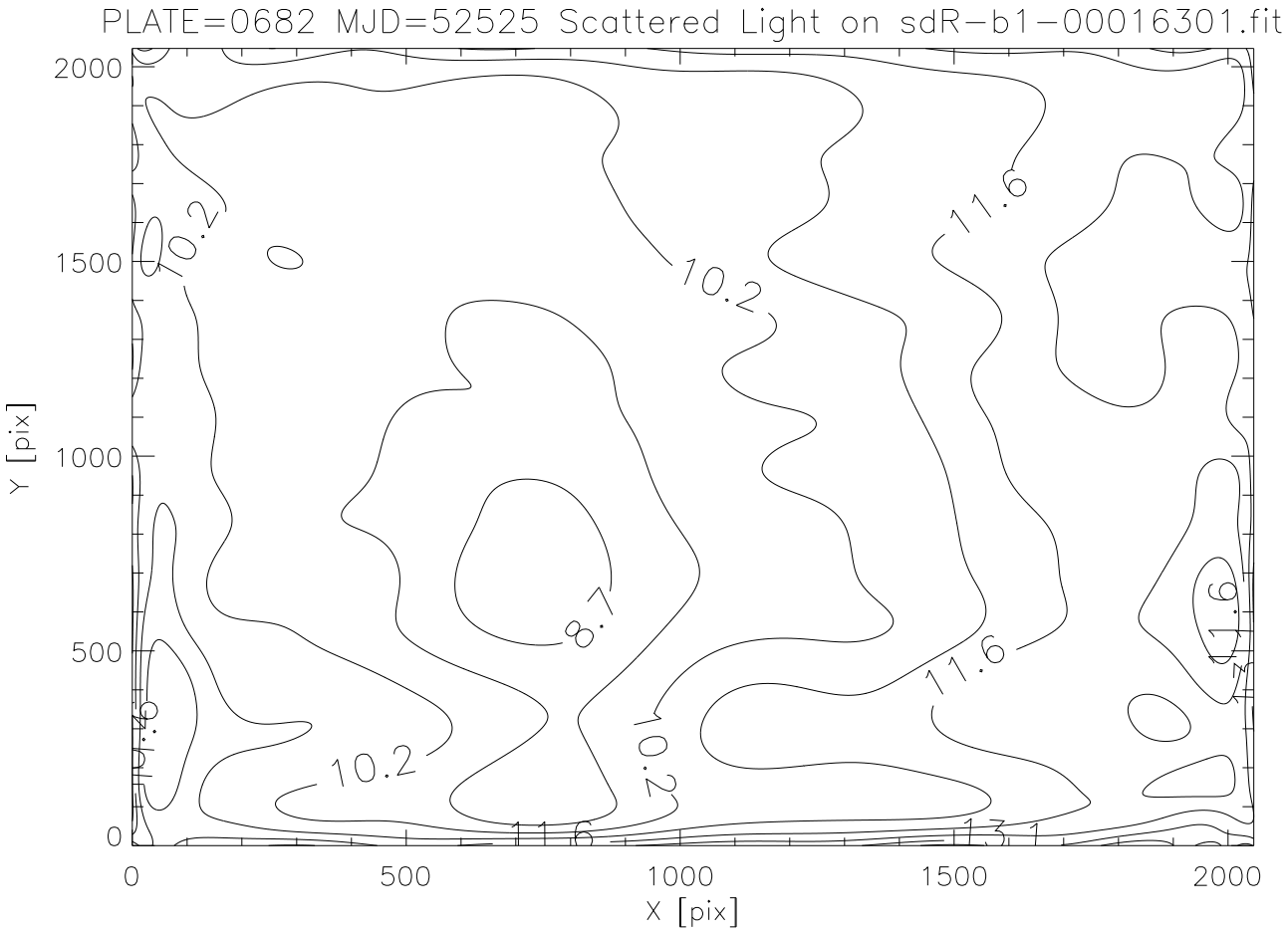

PLATE=0682 MJD=52525 Superflat sdR-b1-00016309.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

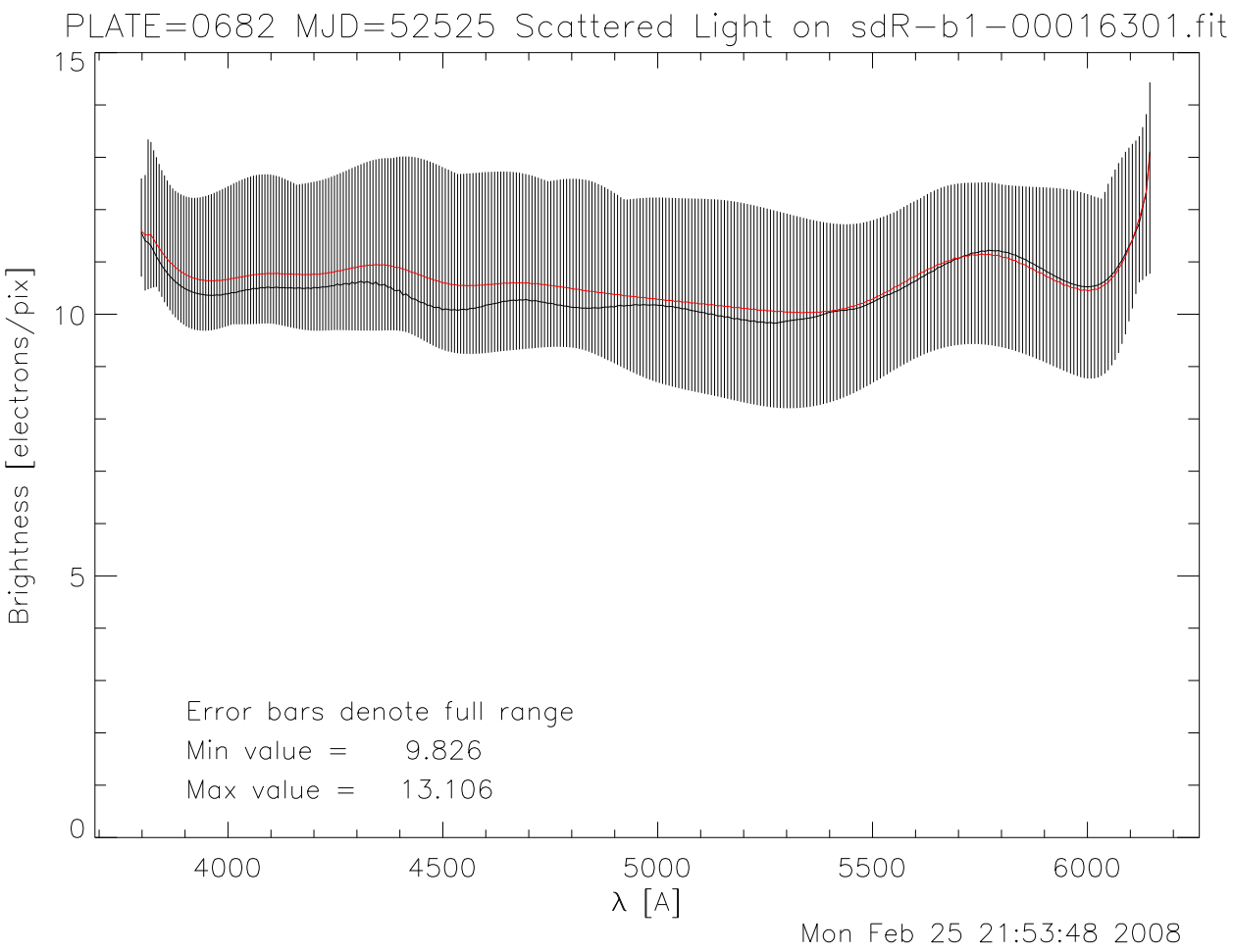

PLATE=0682 MJD=52525 Arcline Fit for sdR-b1-00016310.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 21:50:11 2008

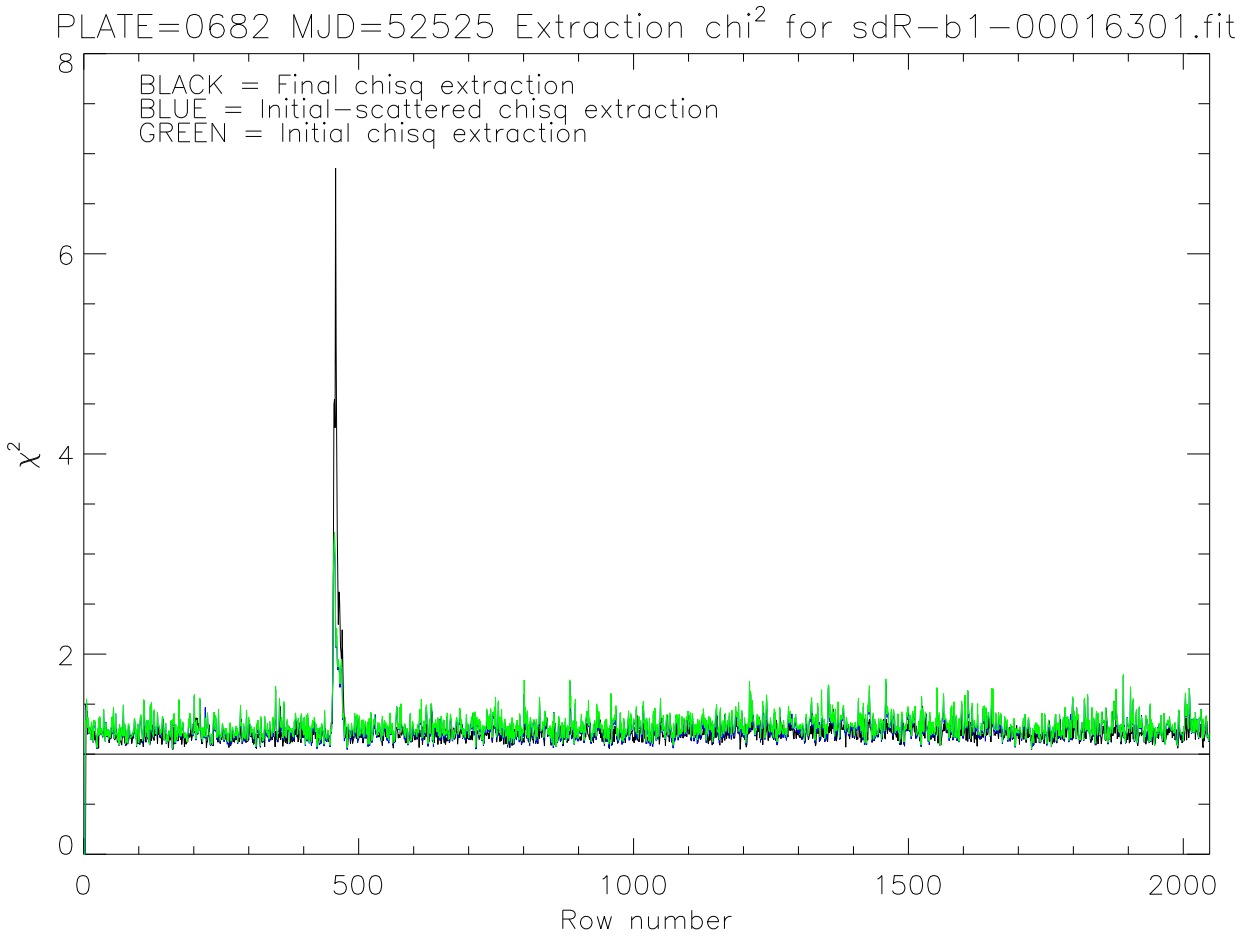

PLATE=0682 MJD=52525 Fiber-Flats for sdR-b1-00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.525
Max value = 1.723
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 21:50:17 2008

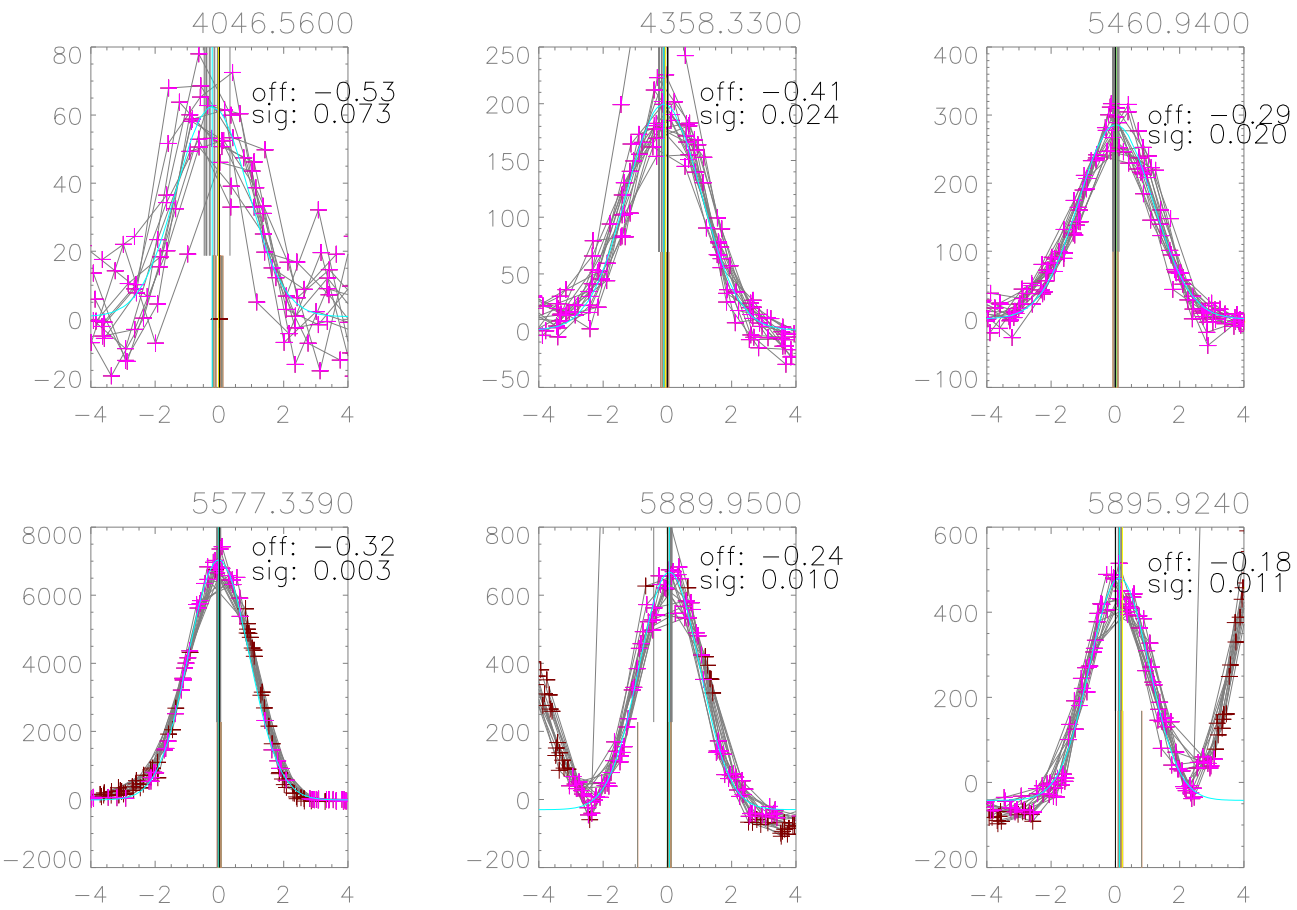

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR−b1−00016301.f
Y [pix]
X [pix]
0
500
1000
1500
2000
12.7
14.5
16.4

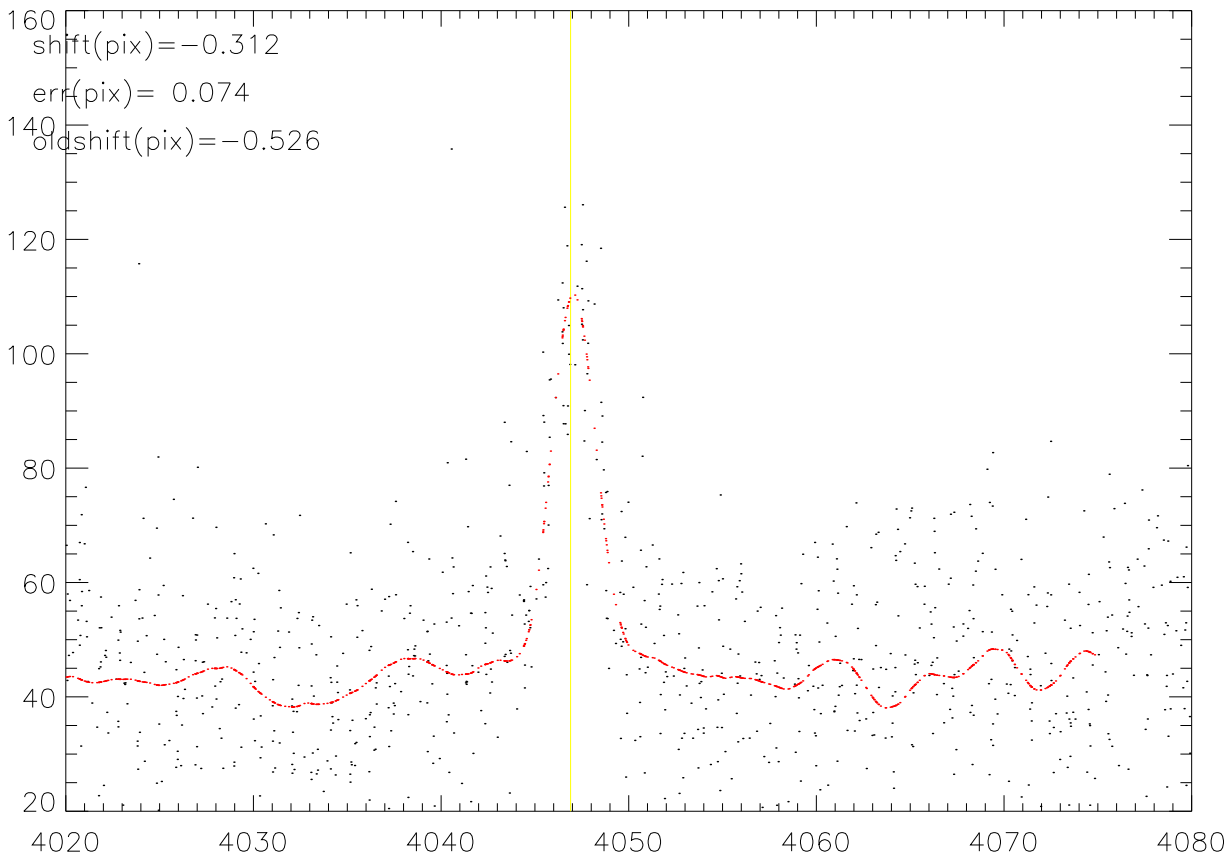

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b1-00016301.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 13.097
Max value = 16.632
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 21:51:18 2008

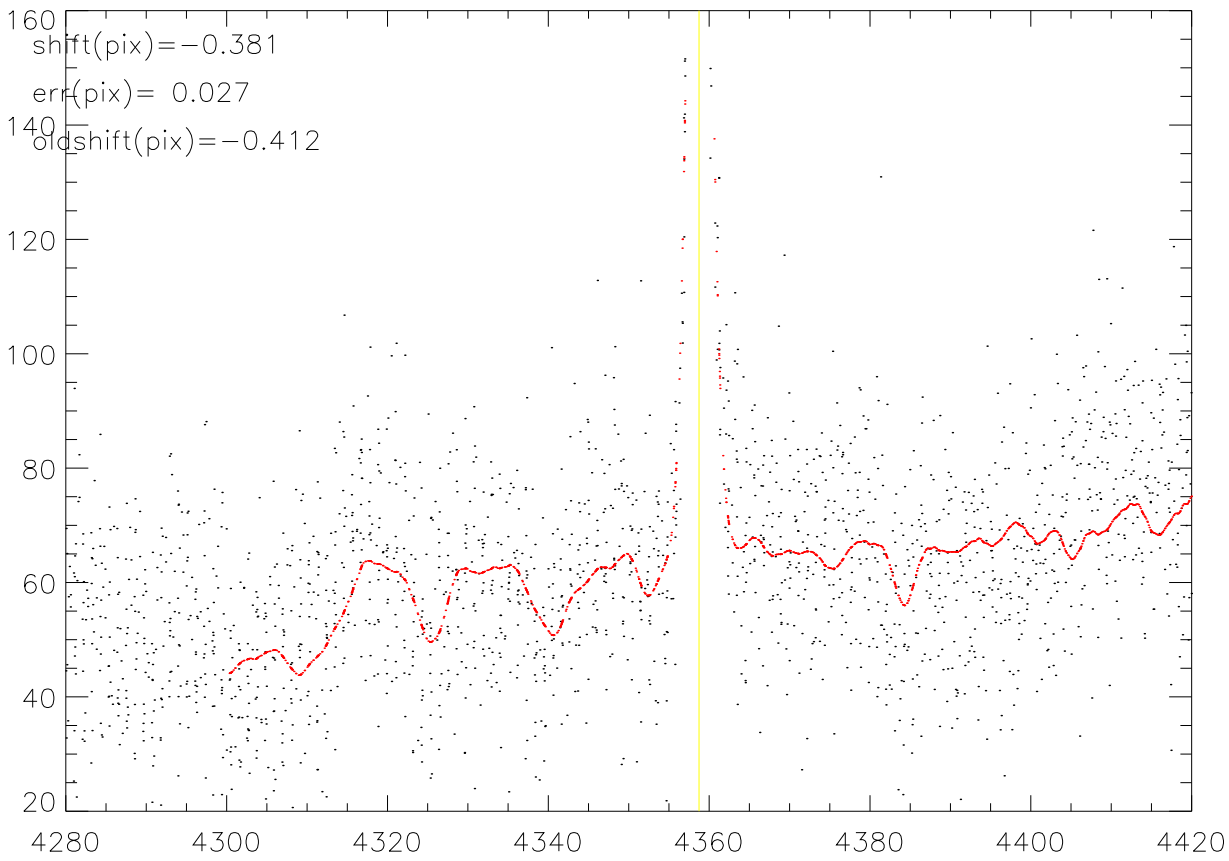

PLATE=0682 MJD=52525 Scattered Light on sdR-b1-00016301.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.2
11.6
8.7
13.1

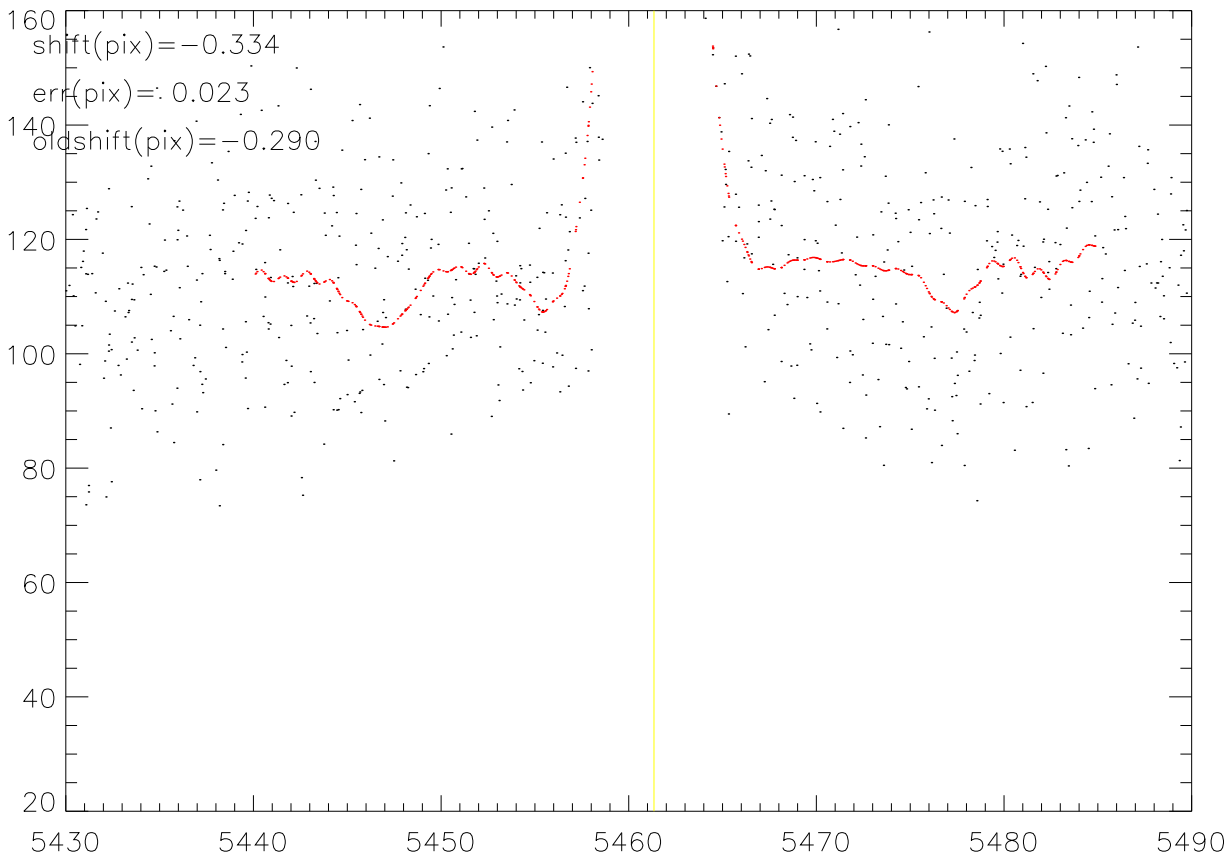

PLATE=0682 MJD=52525 Scattered Light on sdR-b1-00016301.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.826
Max value = 13.106
Mon Feb 25 21:53:48 2008

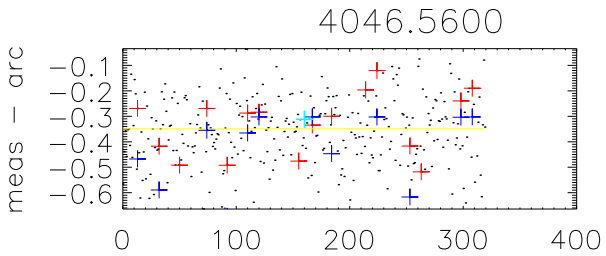

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR-b1-00016301.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
8
0
500
1000
1500
2000
Row number

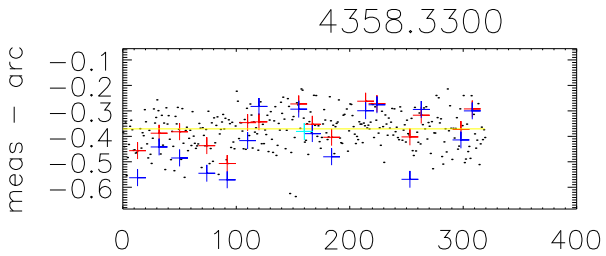

4046.5600
off: −0.53
sig: 0.073
4358.3300
off: −0.41
sig: 0.024
5460.9400
off: −0.29
sig: 0.020
5577.3390
off: −0.32
sig: 0.003
5889.9500
off: −0.24
sig: 0.010
5895.9240
off: −0.18
sig: 0.011

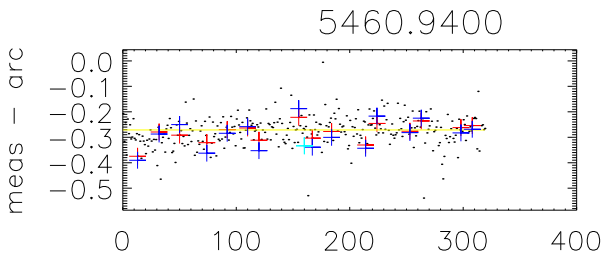

shift(pix)=−0.312
err(pix)= 0.074
oldshift(pix)=−0.526
160
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

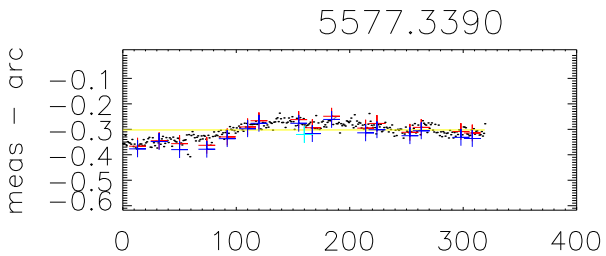

shift(pix)=−0.381
err(pix)= 0.027
oldshift(pix)=−0.412
160
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

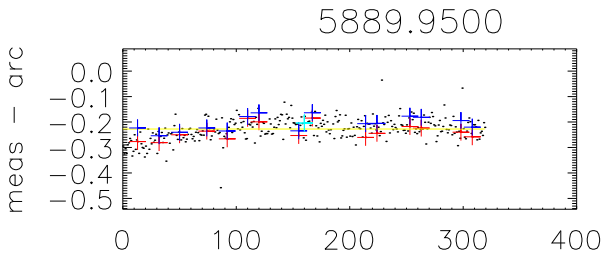

shift(pix)=−0.334
err(pix)=. 0.023
oldshift(pix)=−0.290
160
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

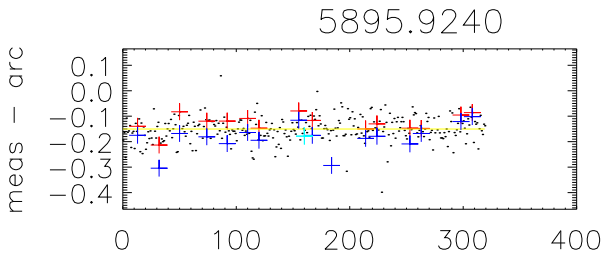

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

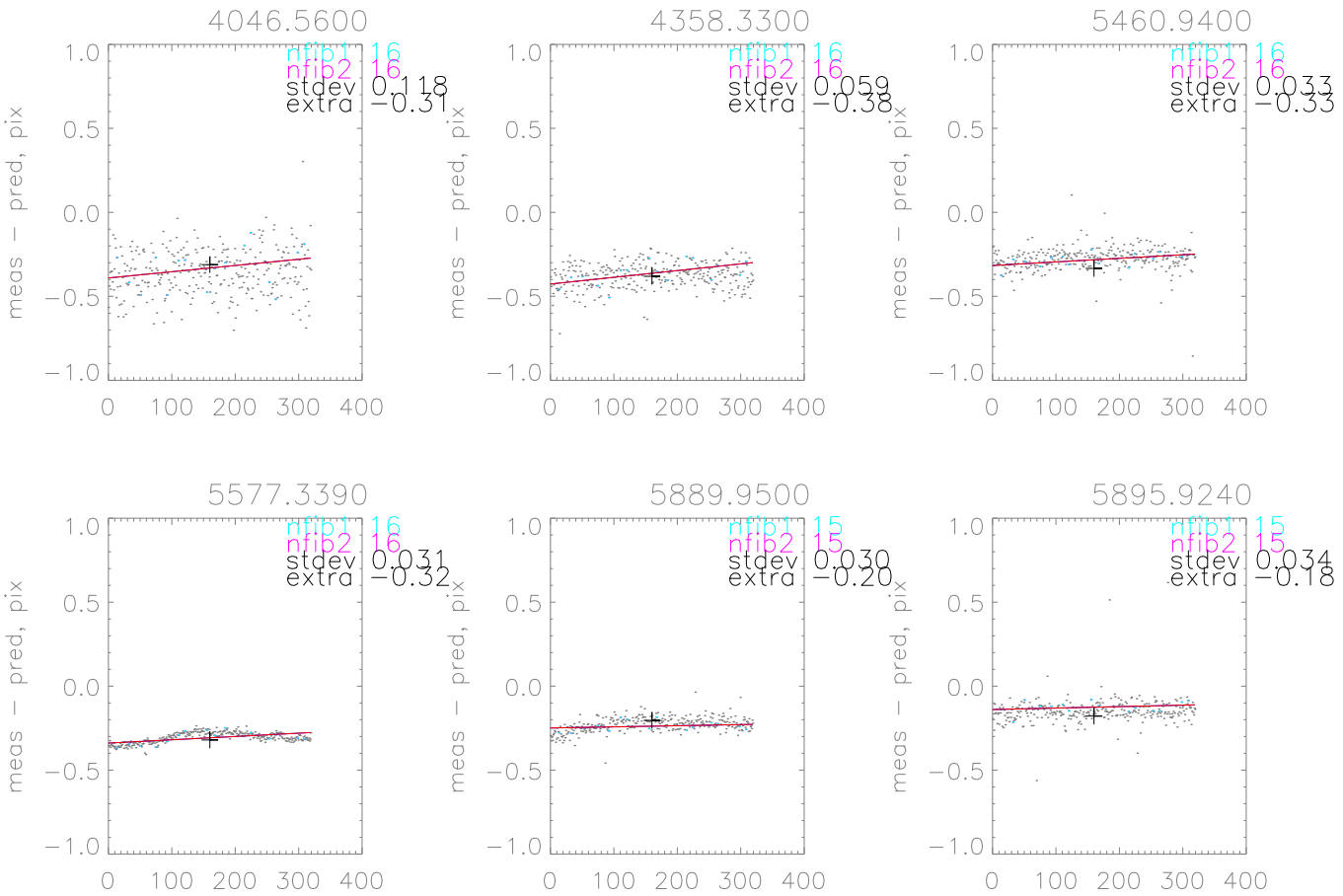

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

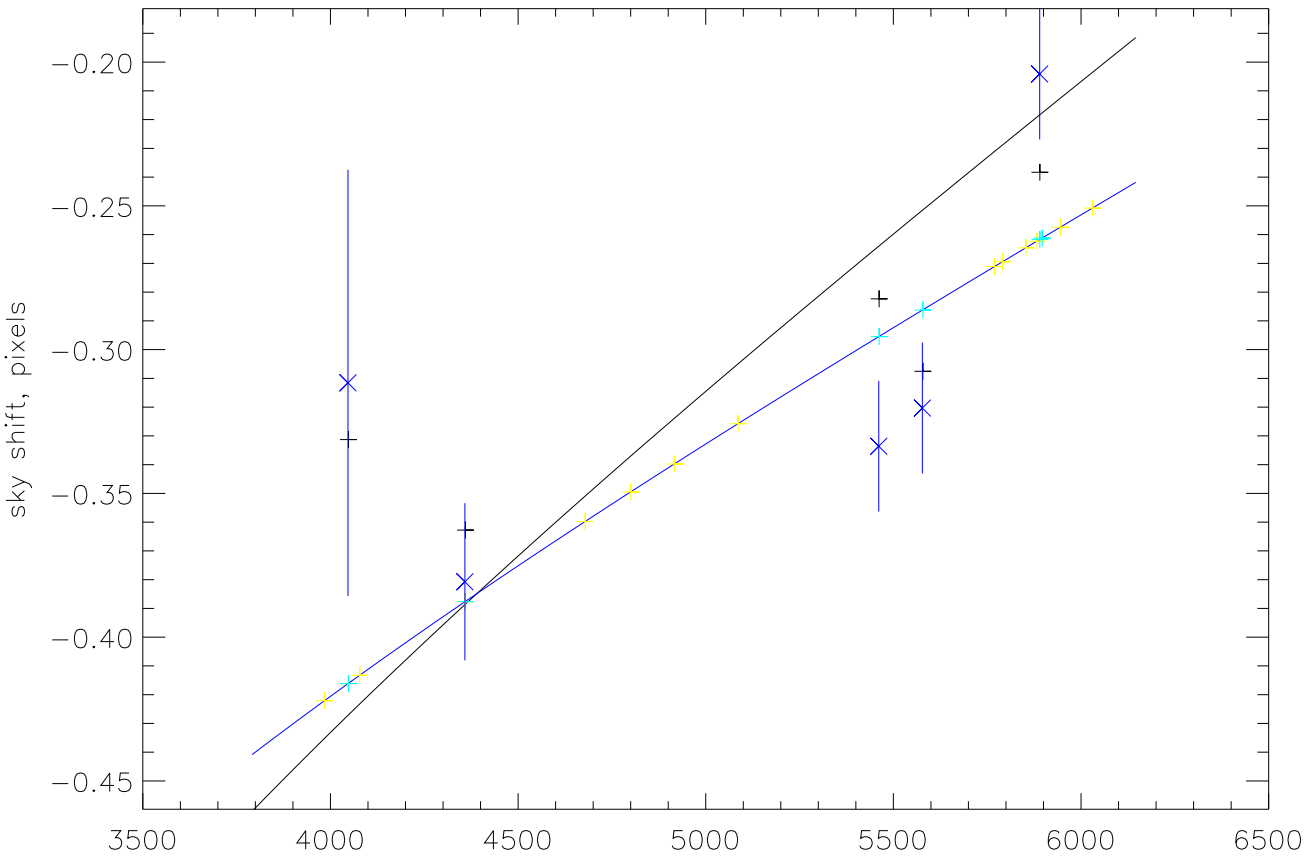

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

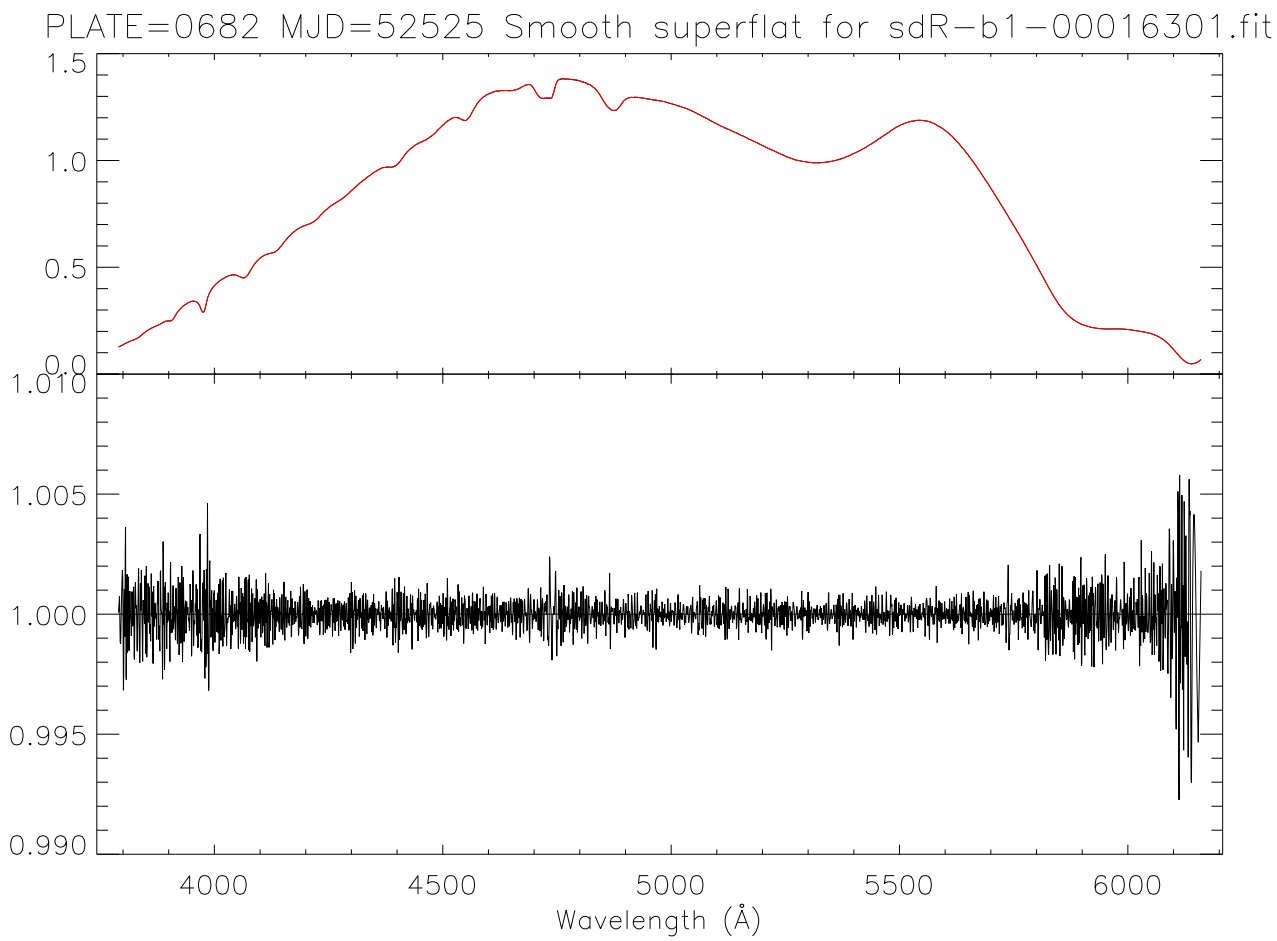

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

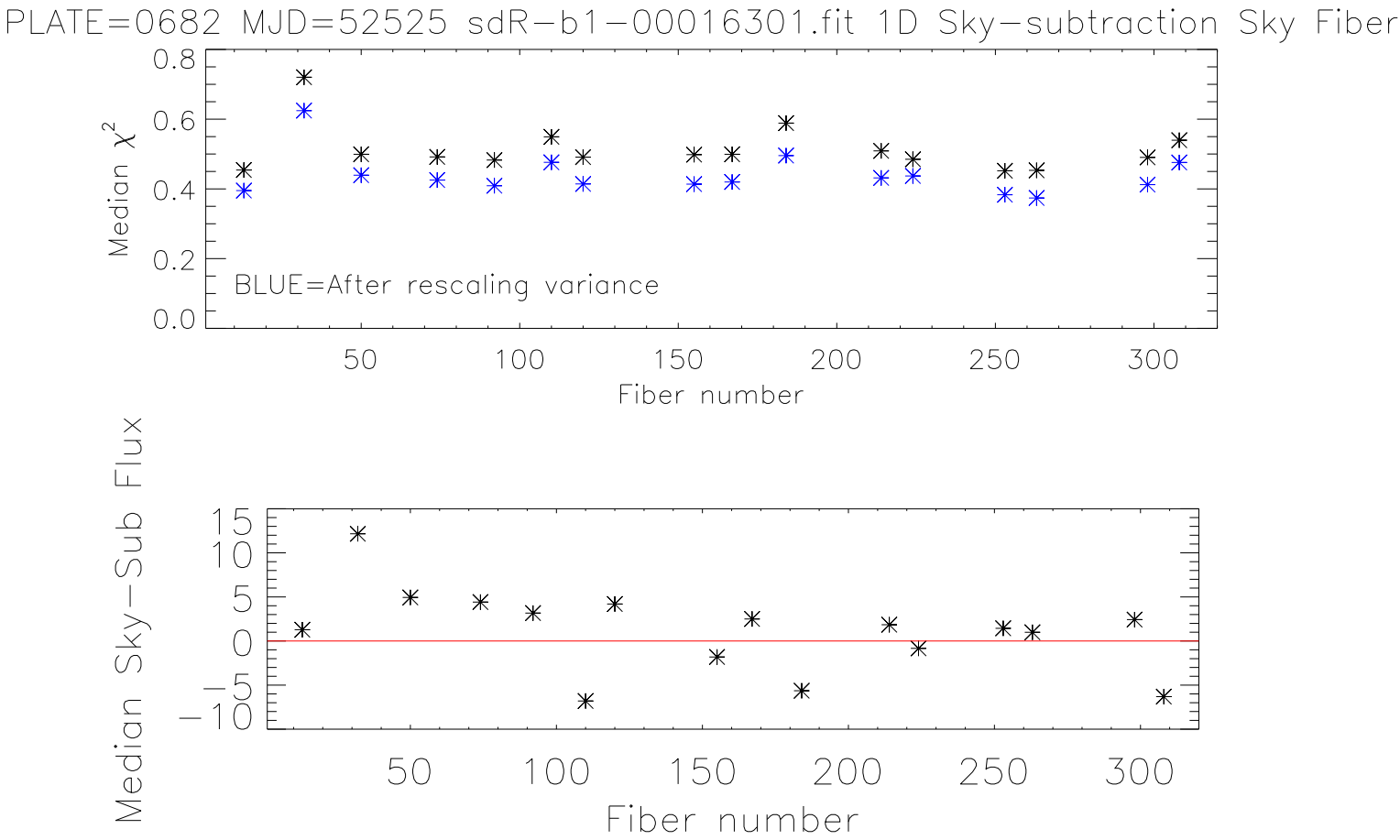

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

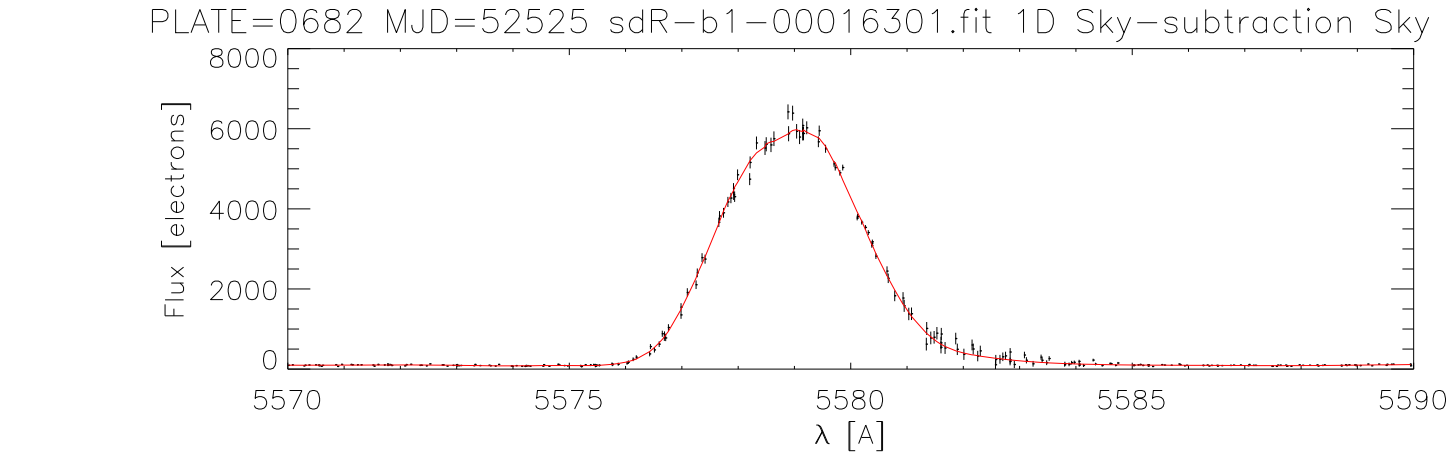

4046.5600
nfib1 16
nfib2 16
stdev 0.118
extra −0.31
4358.3300
nfib1 16
nfib2 16
stdev 0.059
extra −0.38
5460.9400
nfib1 16
nfib2 16
stdev 0.033
extra −0.33
5577.3390
nfib1 16
nfib2 16
stdev 0.031
extra −0.32
5889.9500
nfib1 15
nfib2 15
stdev 0.030
extra −0.20
5895.9240
nfib1 15
nfib2 15
stdev 0.034
extra −0.18
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

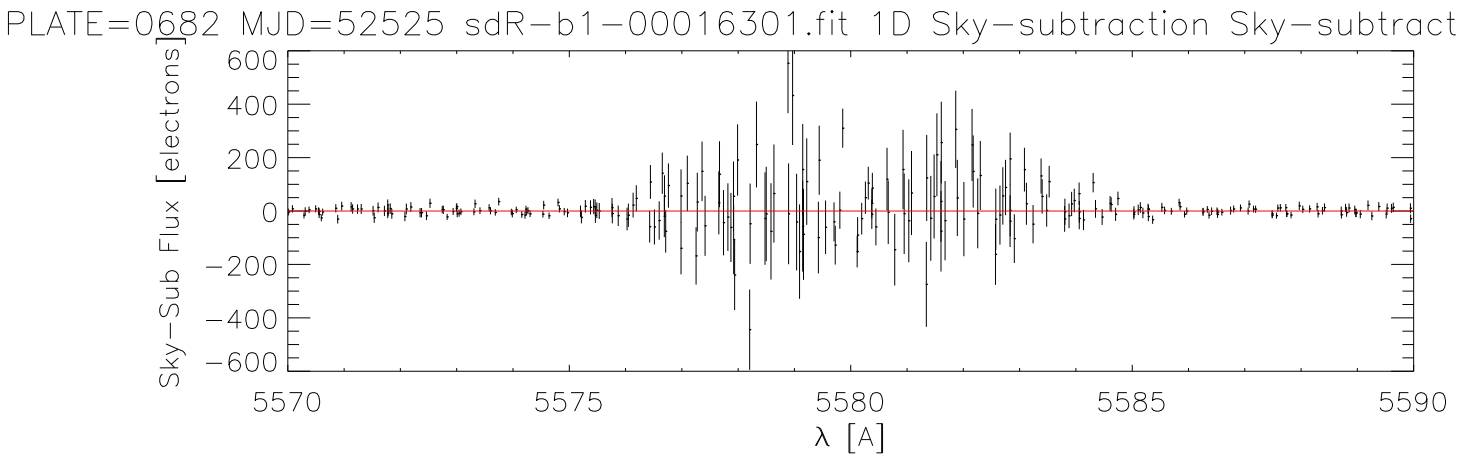

−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

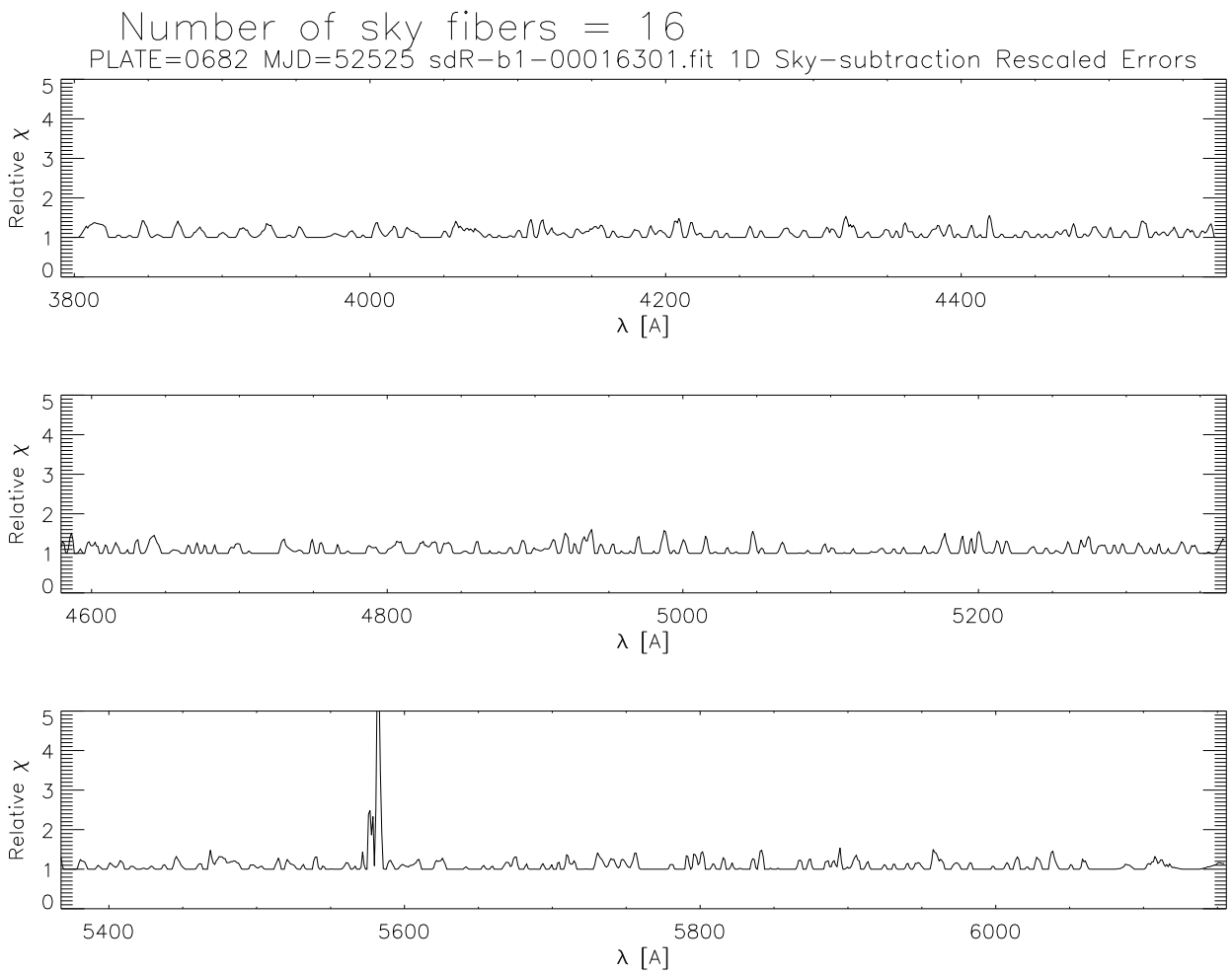
es= 0.0000

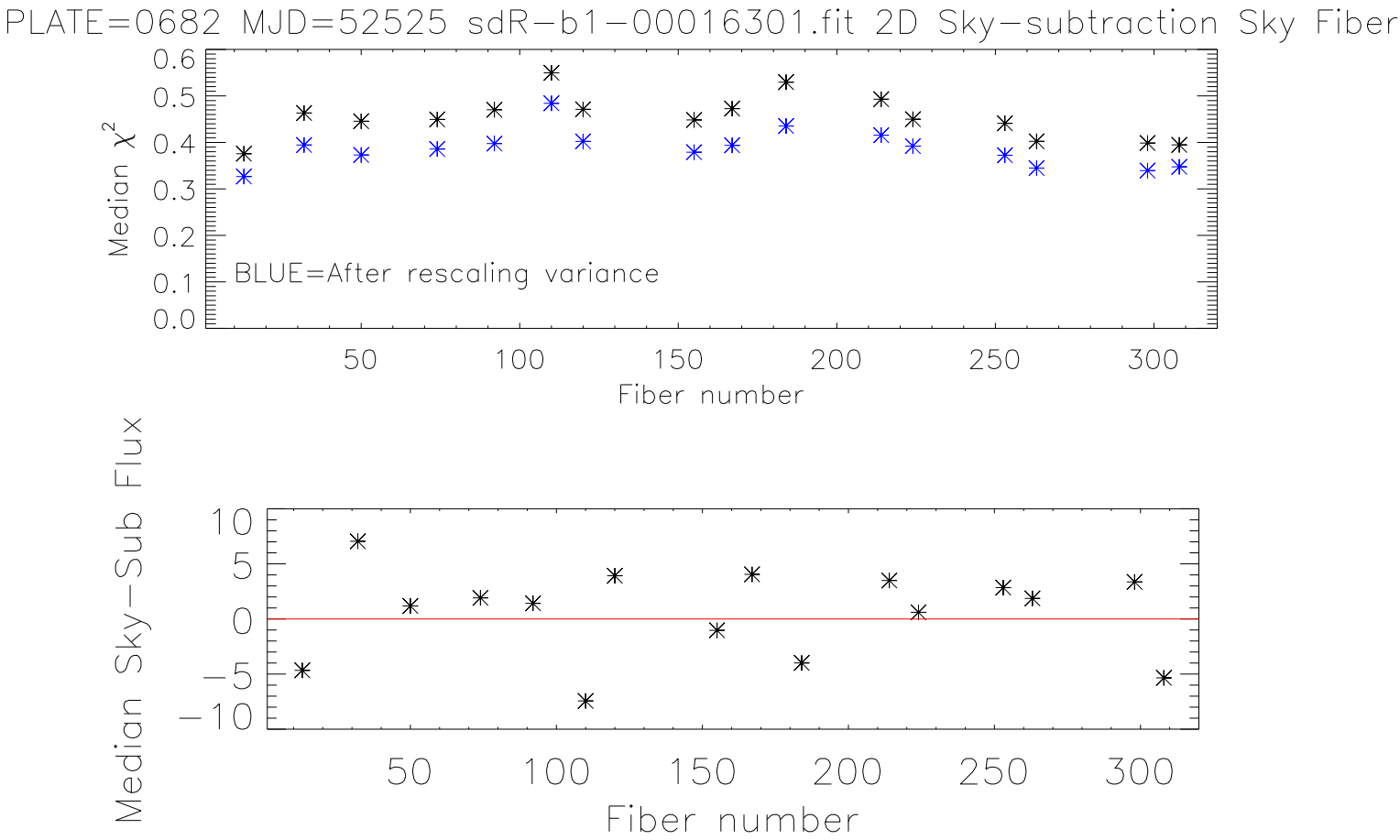

PLATE=0682 MJD=52525 Smooth superflat for sdR-b1-00016301.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

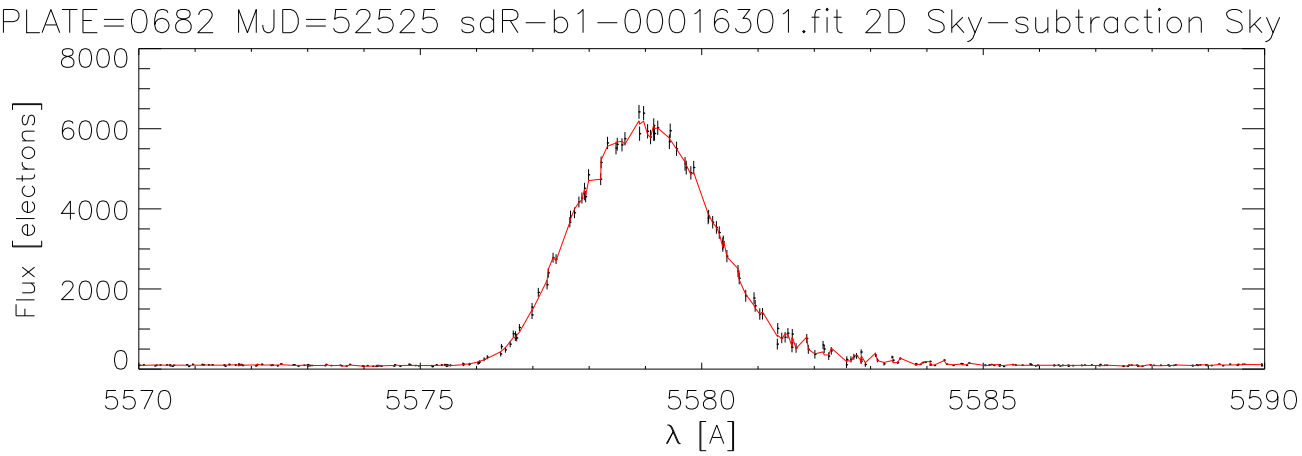

PLATE=0682 MJD=52525 sdR-b1-00016301.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

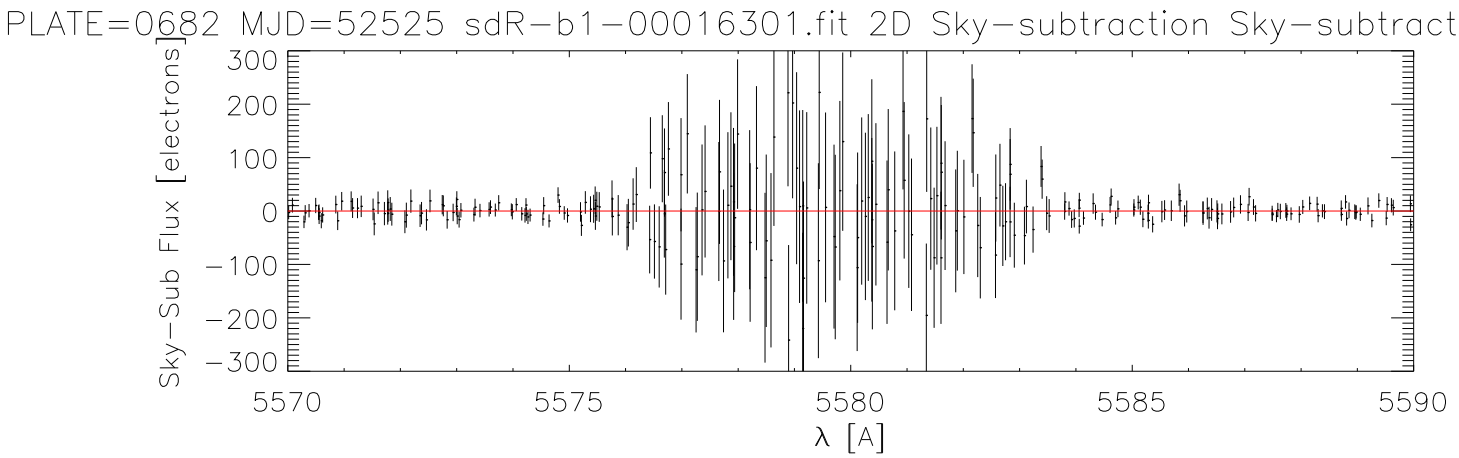

PLATE=0682 MJD=52525 sdR-b1-00016301.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

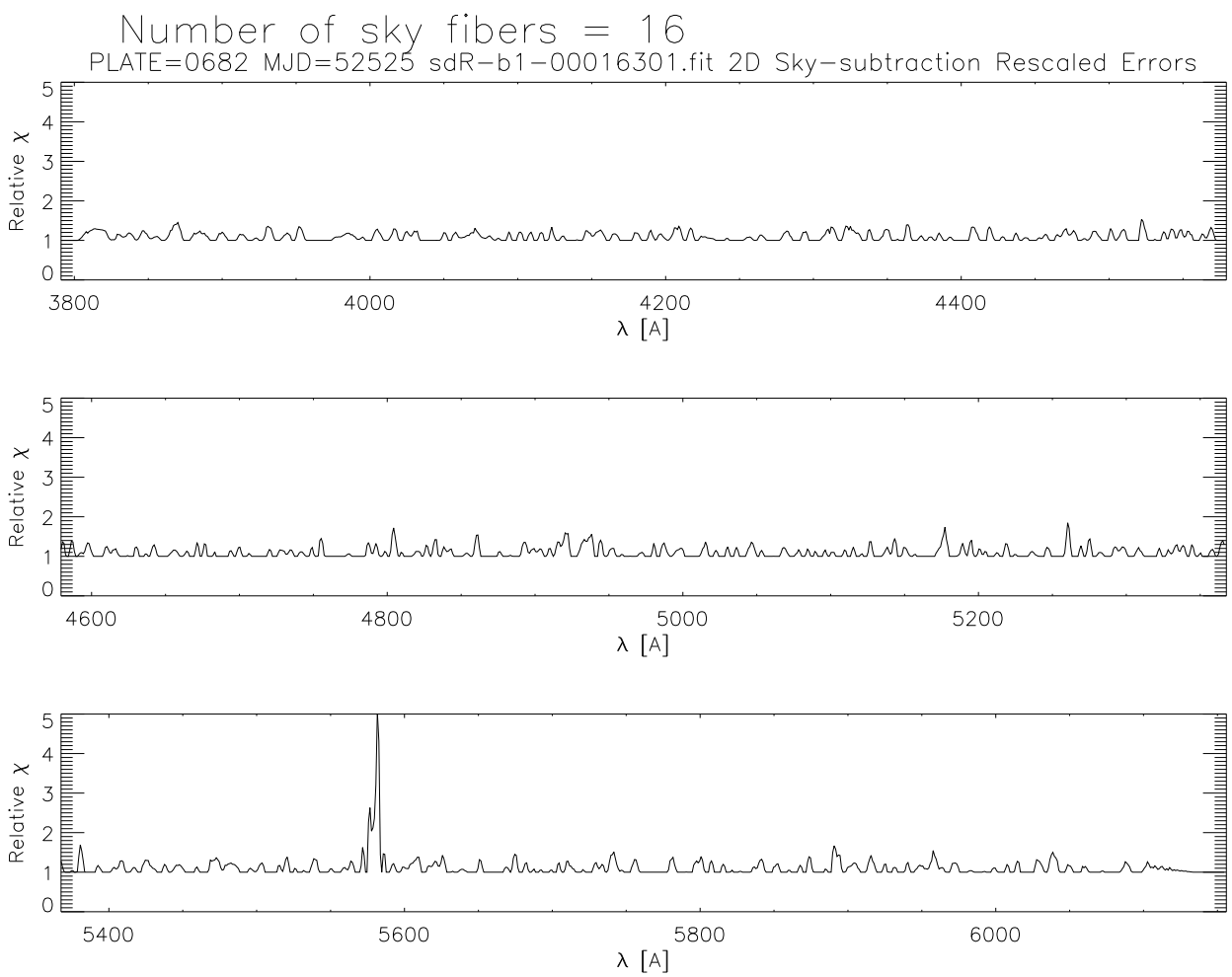

PLATE=0682 MJD=52525 sdR-b1-00016301.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

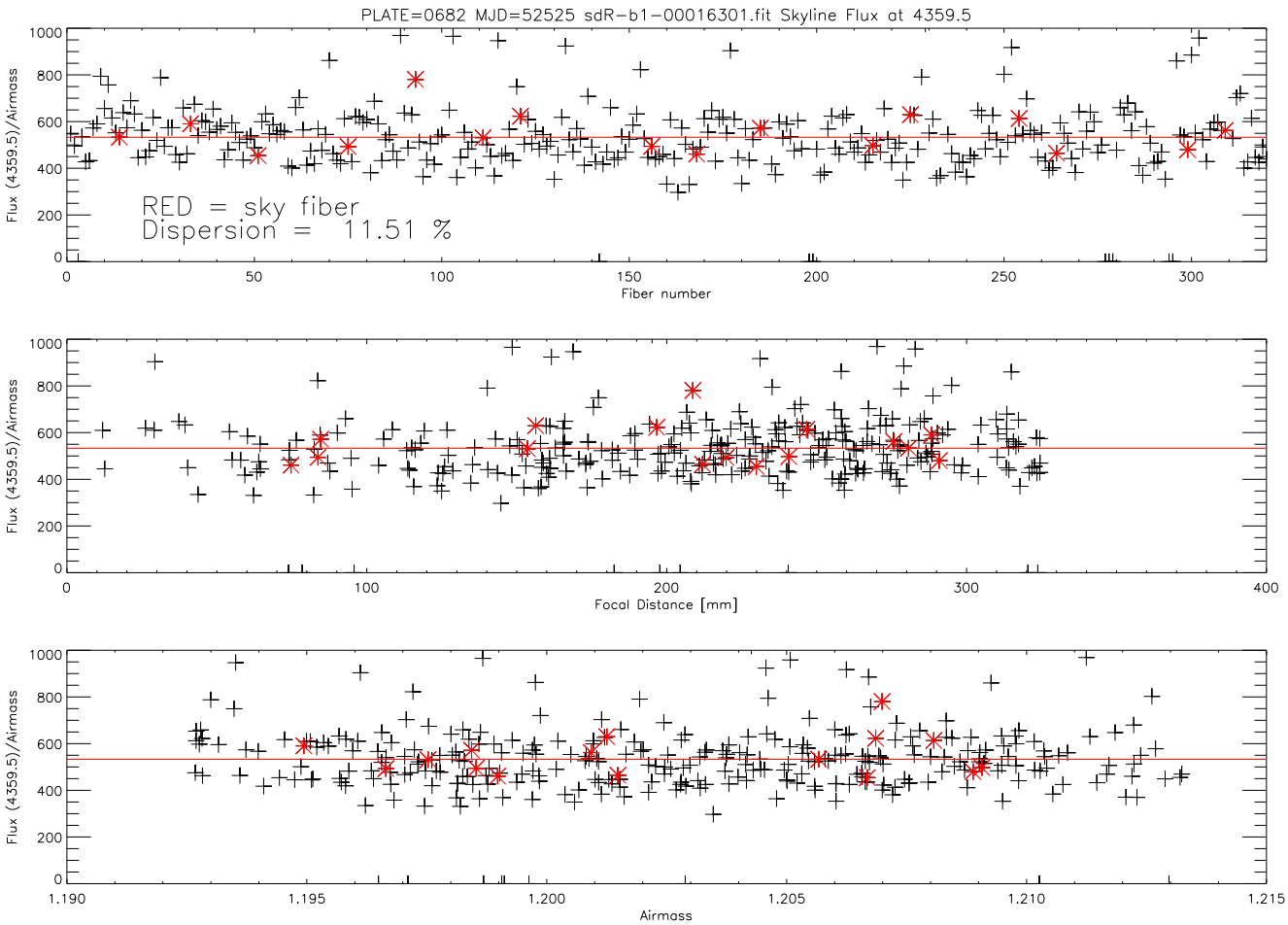

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b1-00016301.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

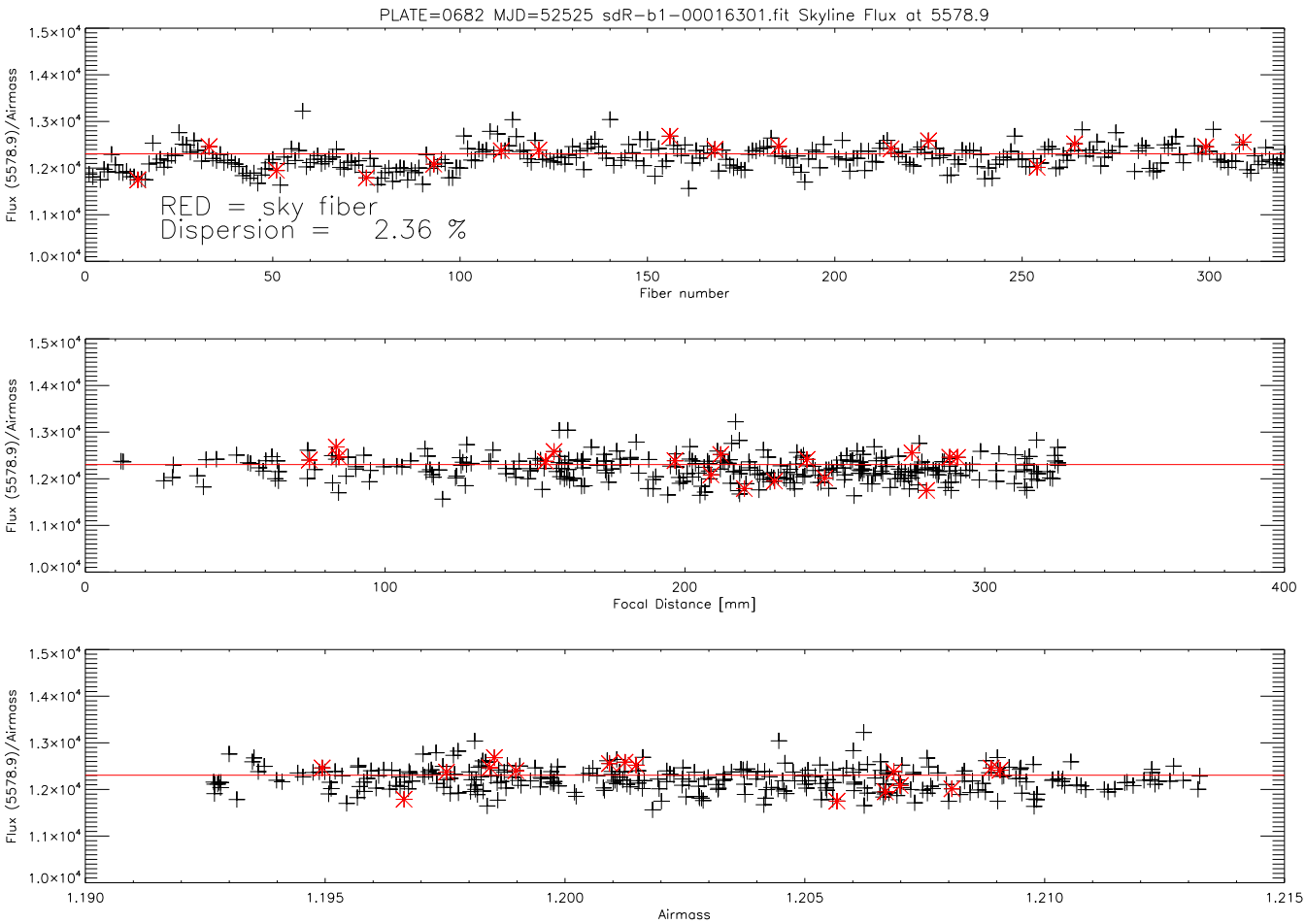

PLATE=0682 MJD=52525 sdR-b1-00016301.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

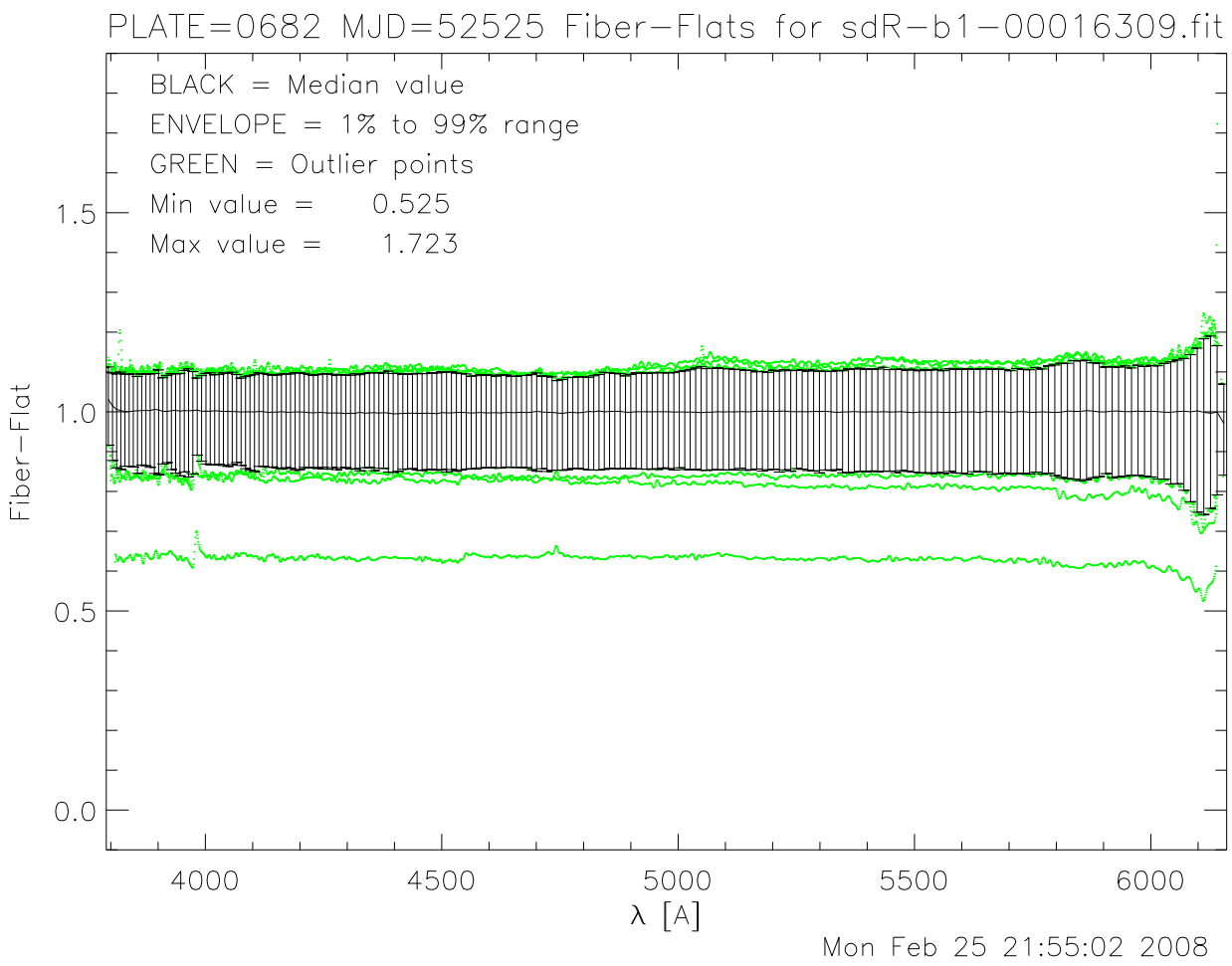

PLATE=0682 MJD=52525 sdR-b1-00016301.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

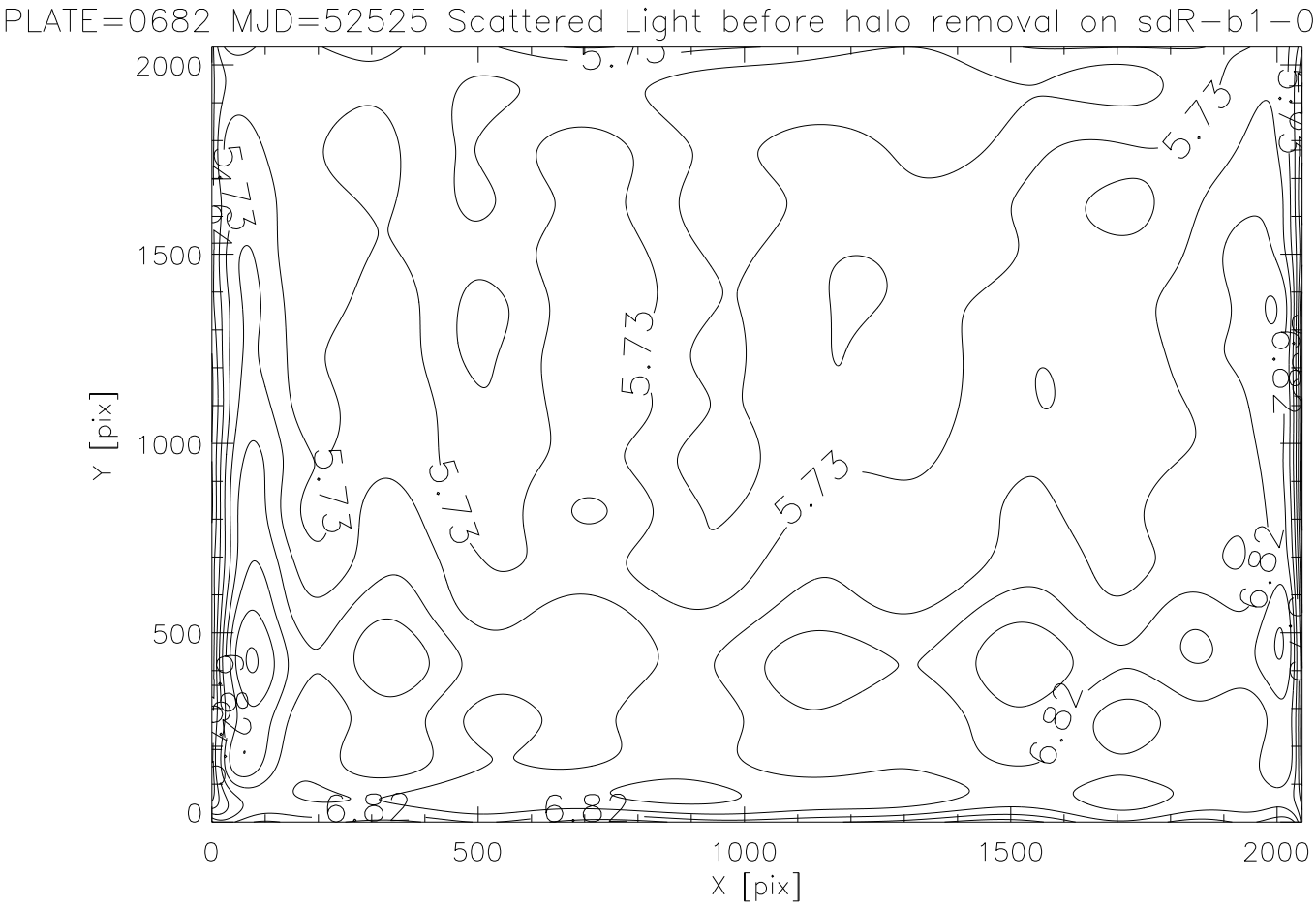

PLATE=0682 MJD=52525 sdR-b1-00016301.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

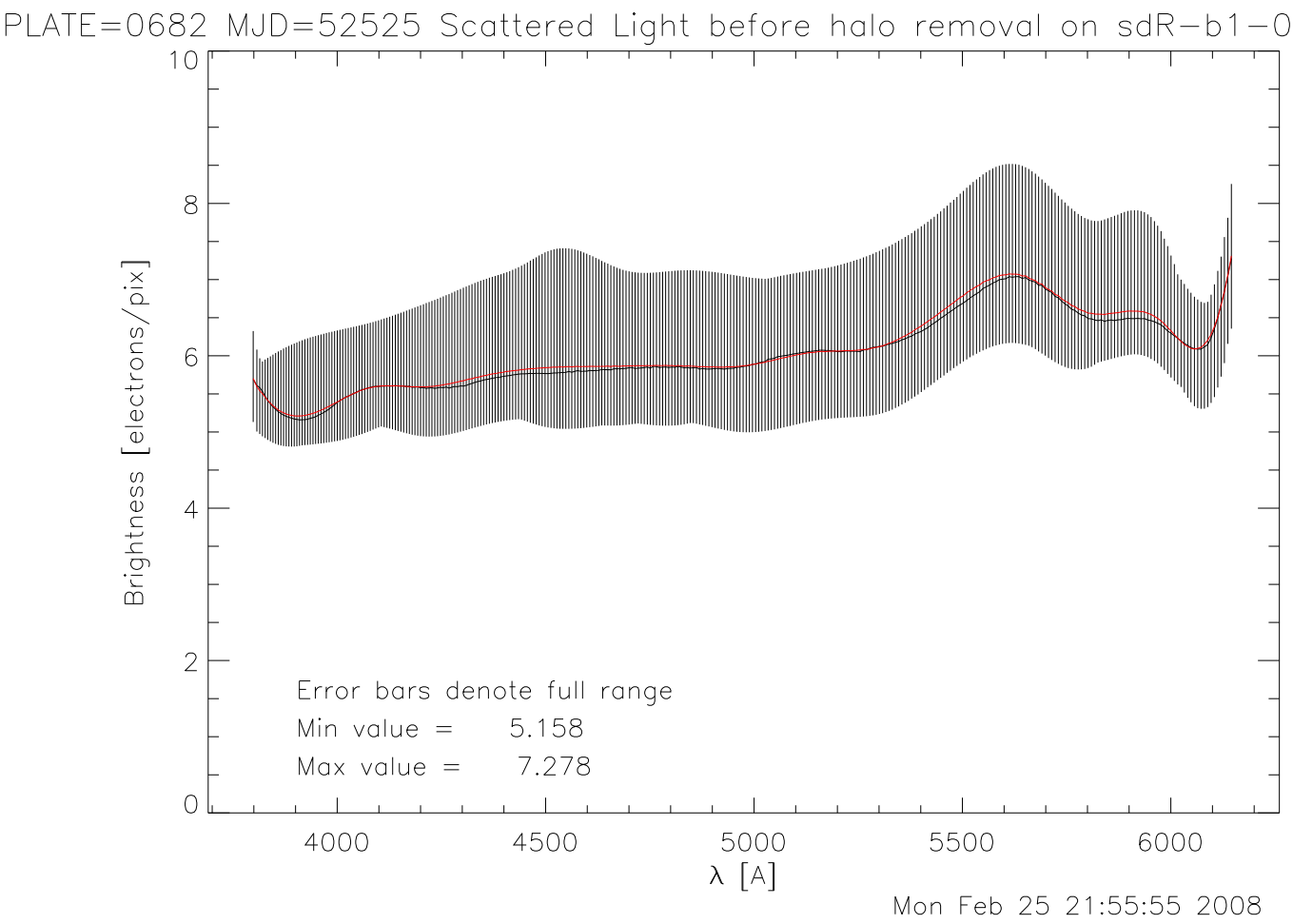

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b1-00016301.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

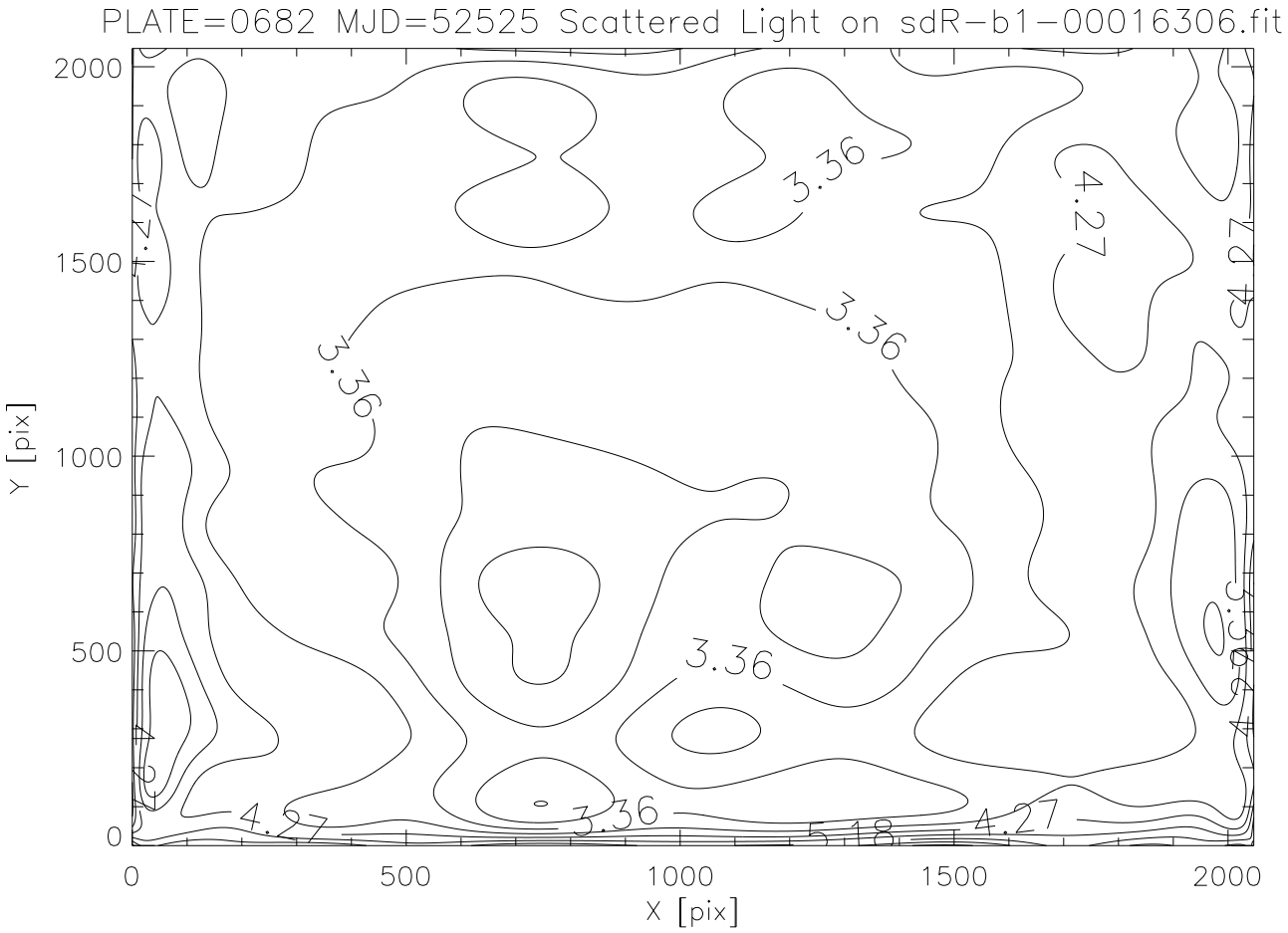

PLATE=0682 MJD=52525 sdR-b1-00016301.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.51 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

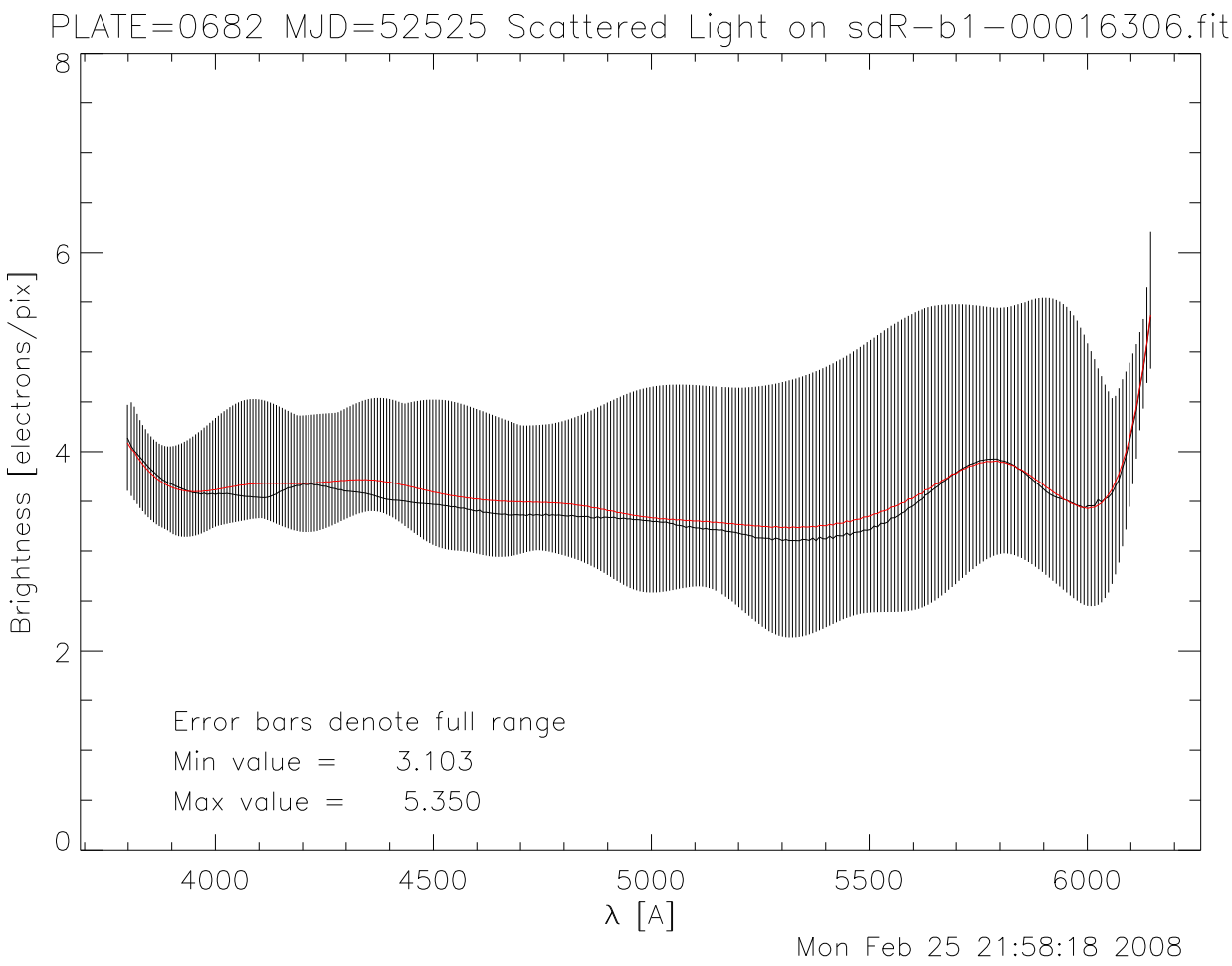

PLATE=0682 MJD=52525 sdR-b1-00016301.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.36 %
Fiber number
Focal Distance [mm]
Airmass

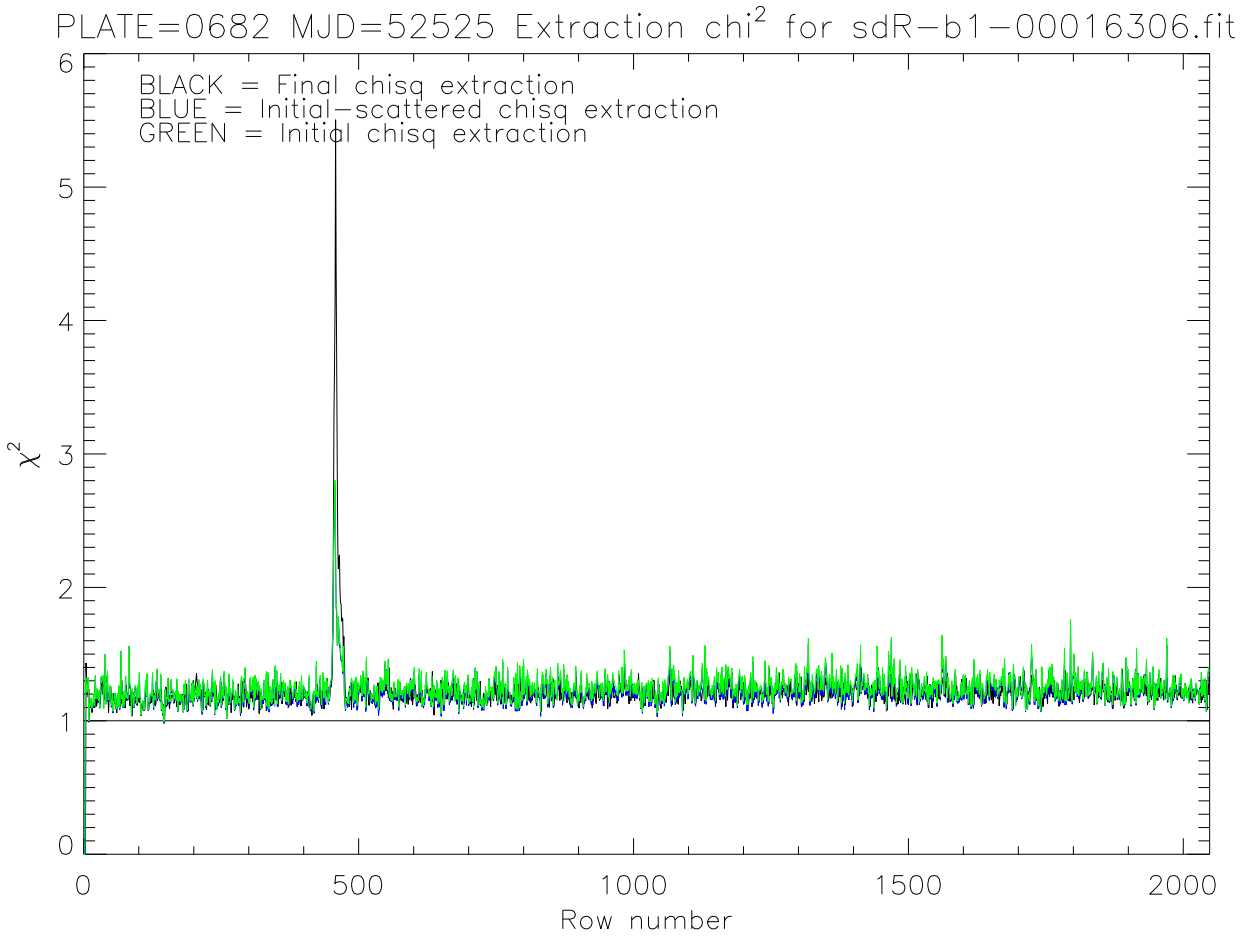

PLATE=0682 MJD=52525 Fiber-Flats for sdR-b1-00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.525
Max value = 1.723
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 21:55:02 2008

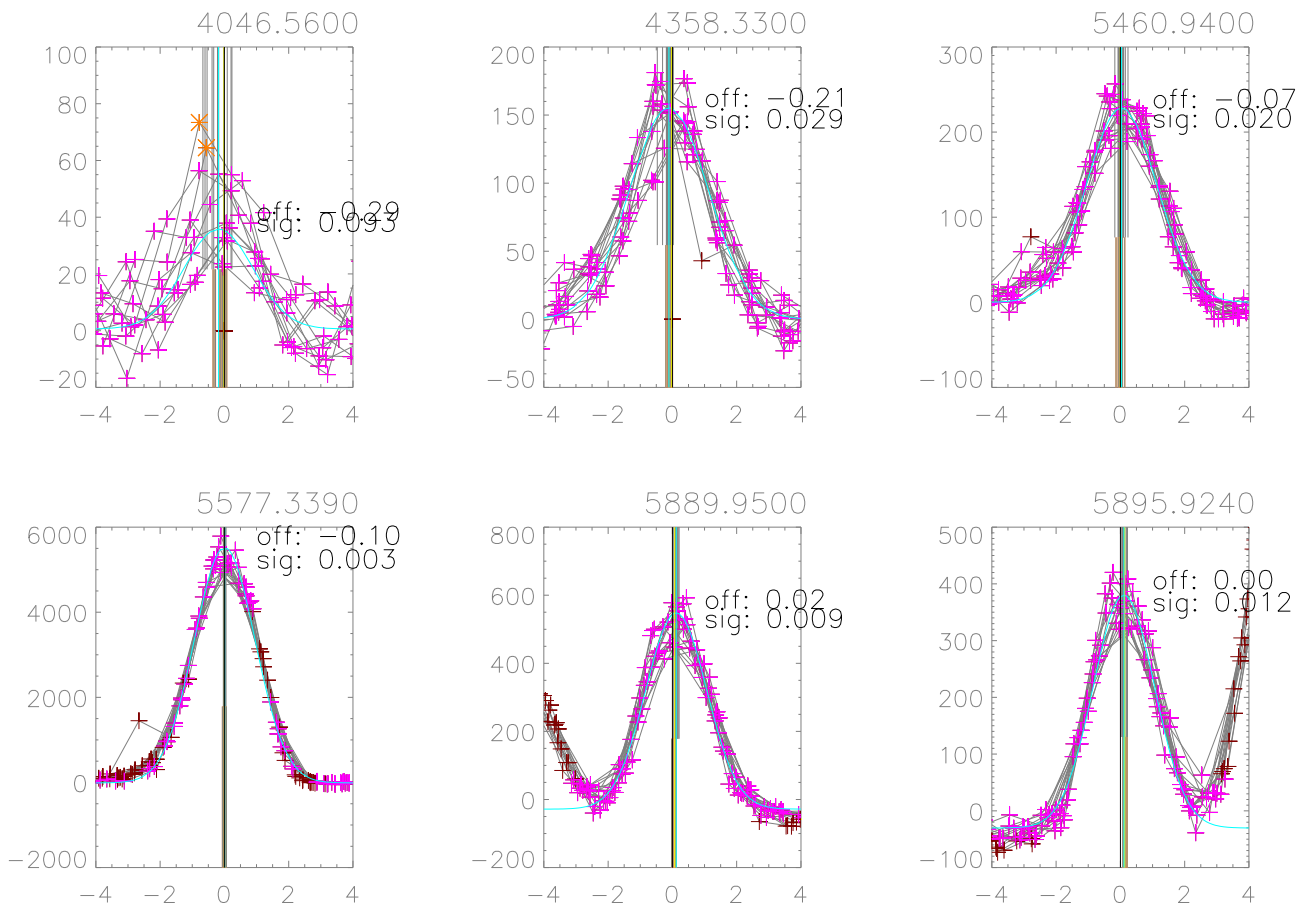

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR−b1−00016306.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.73
6.82
0

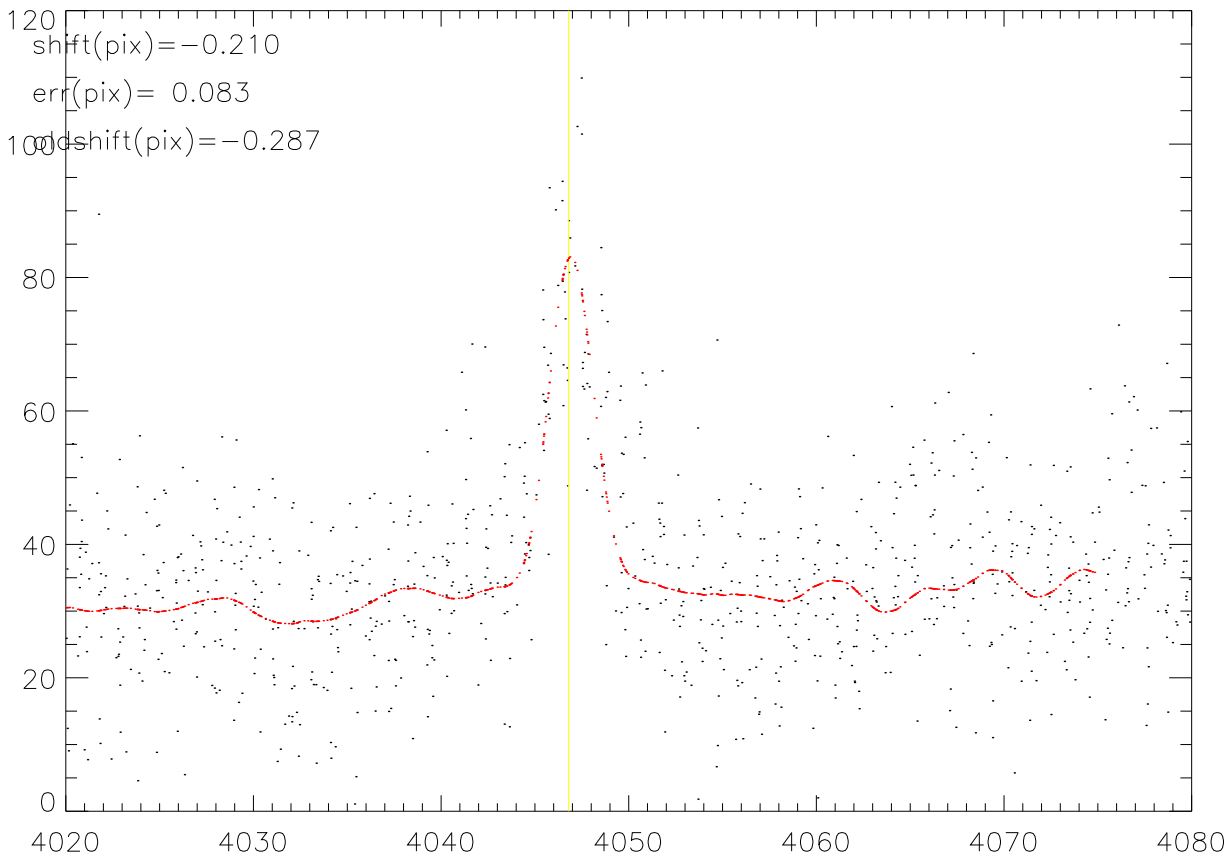

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b1-00016306.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.158
Max value = 7.278
Mon Feb 25 21:55:55 2008

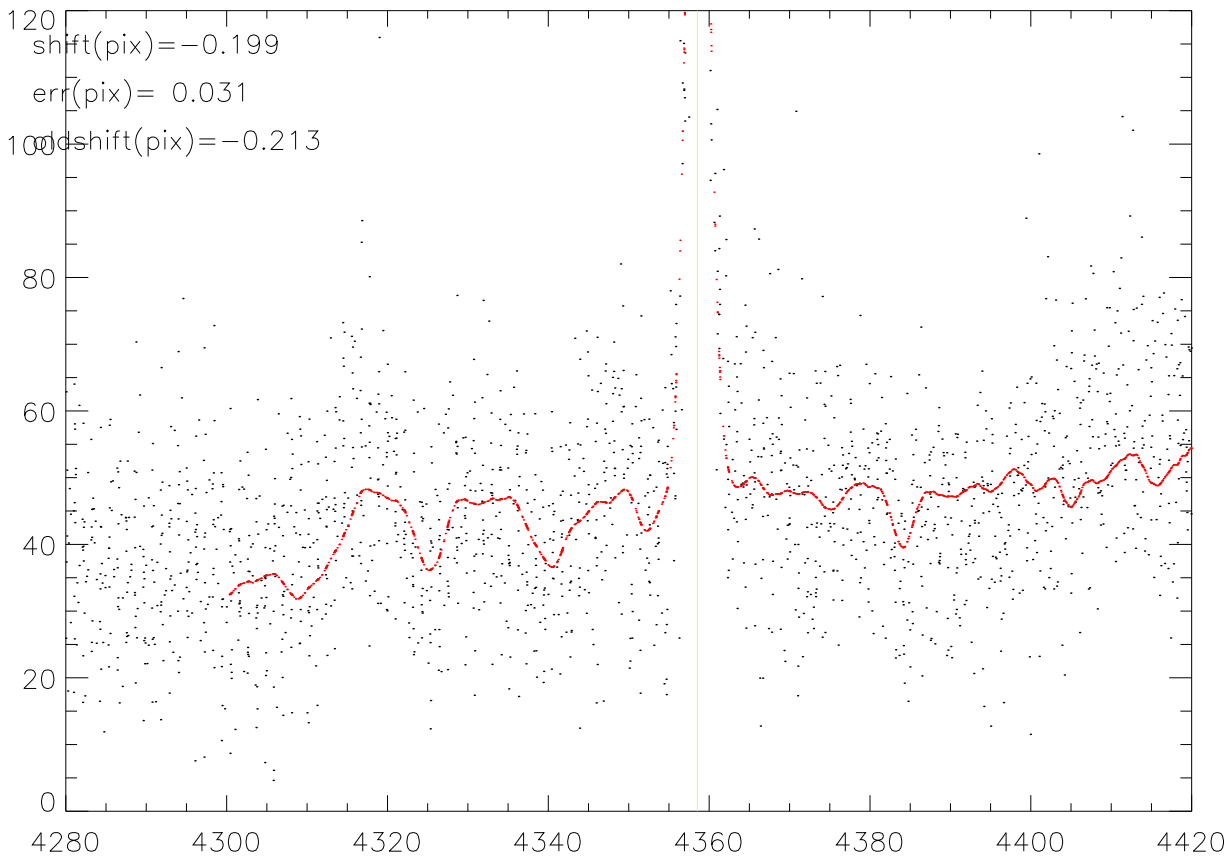

PLATE=0682 MJD=52525 Scattered Light on sdR-b1-00016306.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.36
4.27
5.18

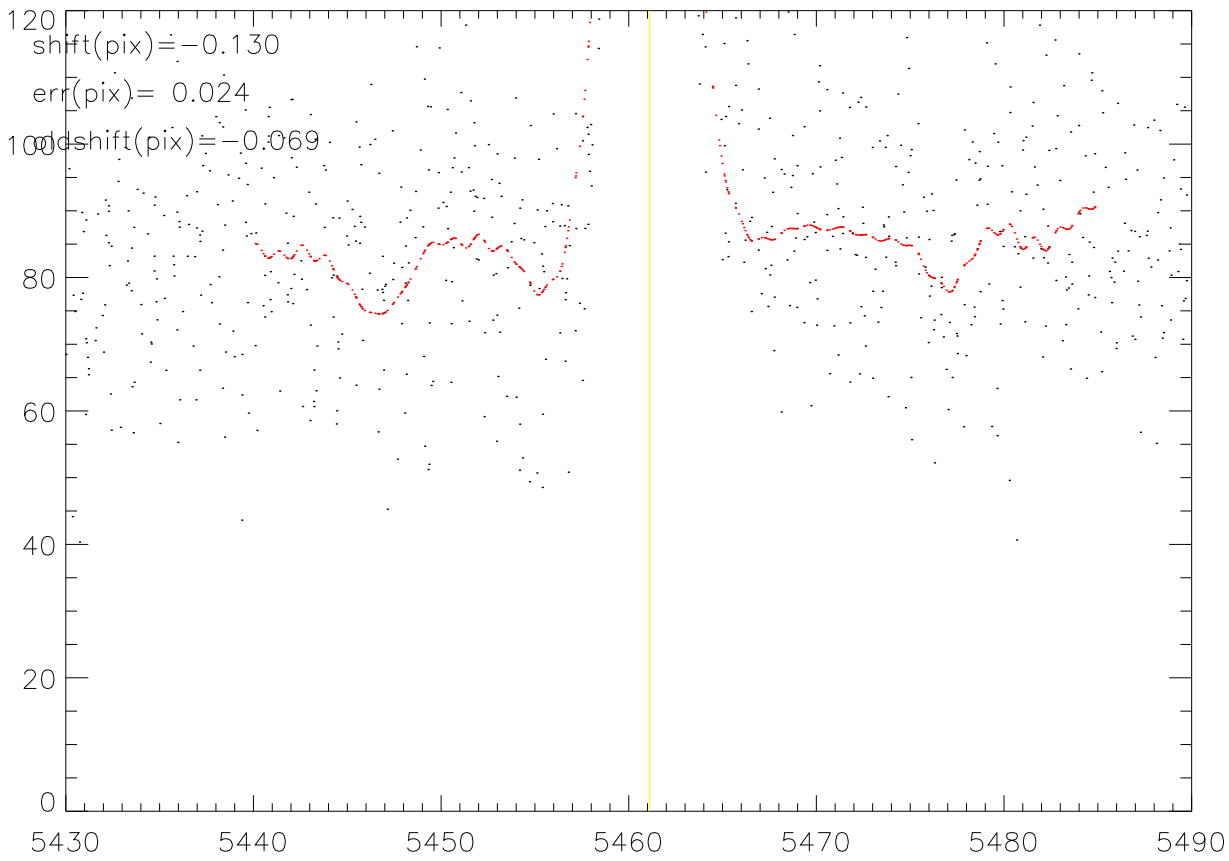

PLATE=0682 MJD=52525 Scattered Light on sdR-b1-00016306.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.103
Max value = 5.350
Mon Feb 25 21:58:18 2008

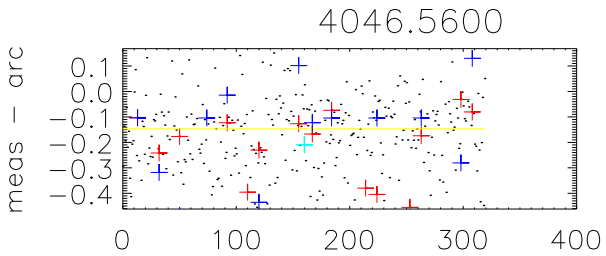

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR-b1-00016306.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

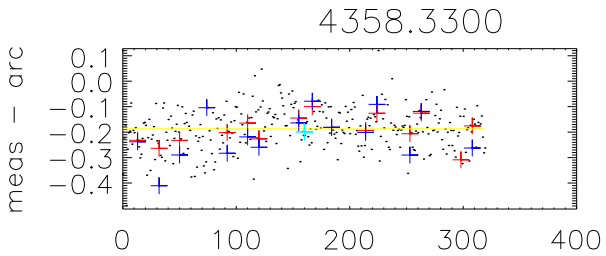

4046.5600
off: −0.29
sig: 0.093
4358.3300
off: −0.21
sig: 0.029
5460.9400
off: −0.07
sig: 0.020
5577.3390
off: −0.10
sig: 0.003
5889.9500
off: 0.02
sig: 0.009
5895.9240
off: 0.00
sig: 0.012

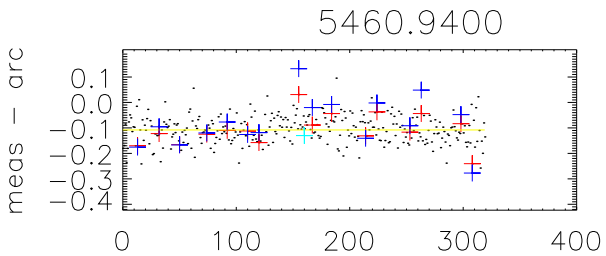

shift(pix)=−0.210
err(pix)= 0.083
oldshift(pix)=−0.287
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

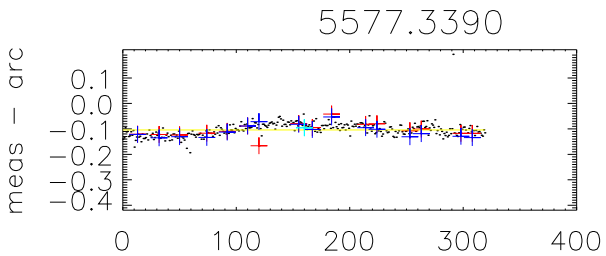

shift(pix)=−0.199
err(pix)= 0.031
oldshift(pix)=−0.213
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

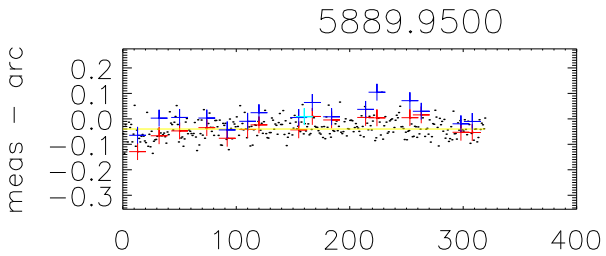

shift(pix)=−0.130
err(pix)= 0.024
oldshift(pix)=−0.069
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

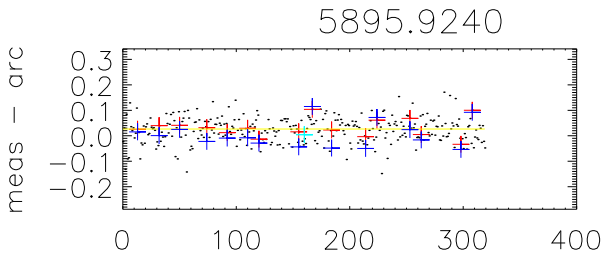

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

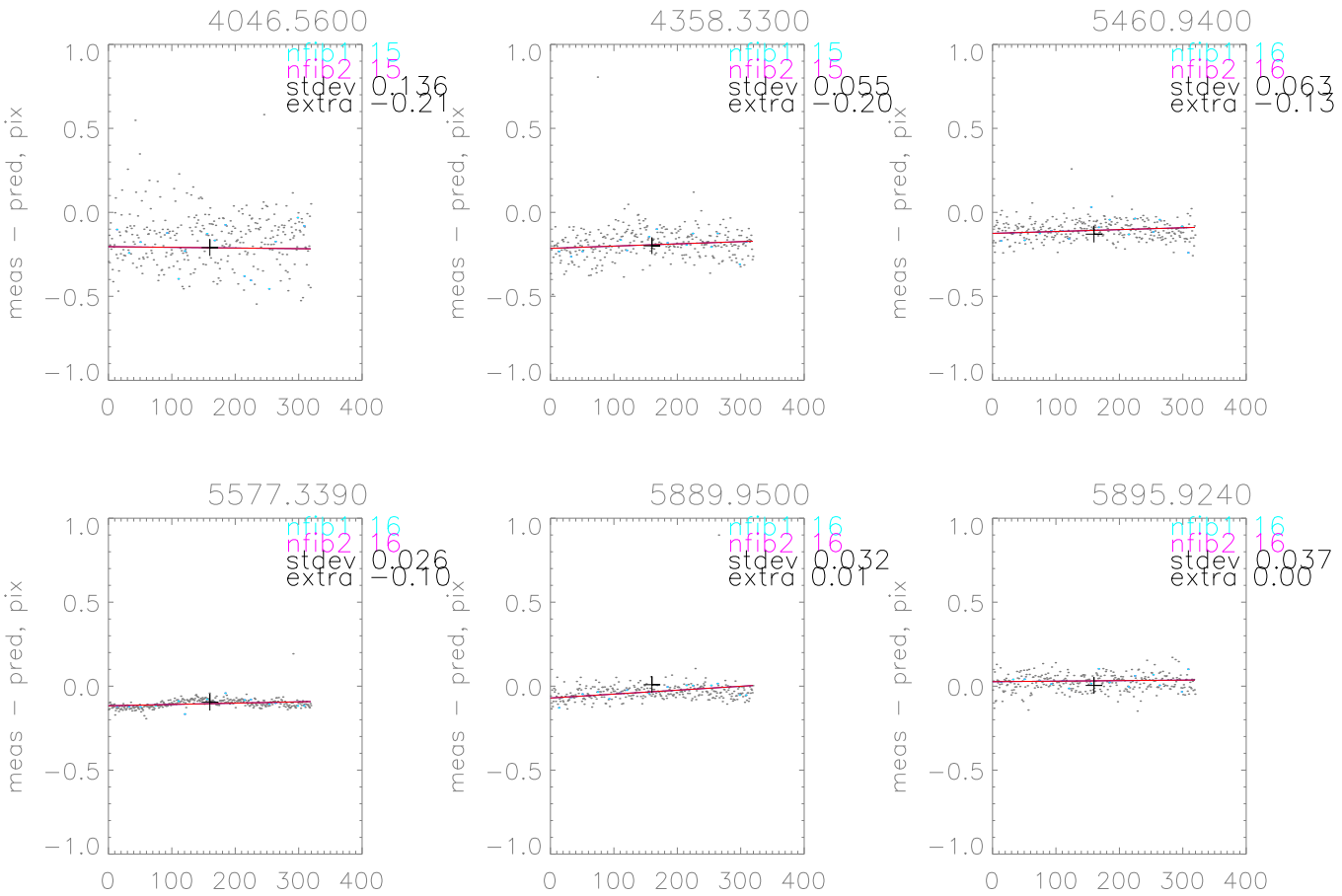

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

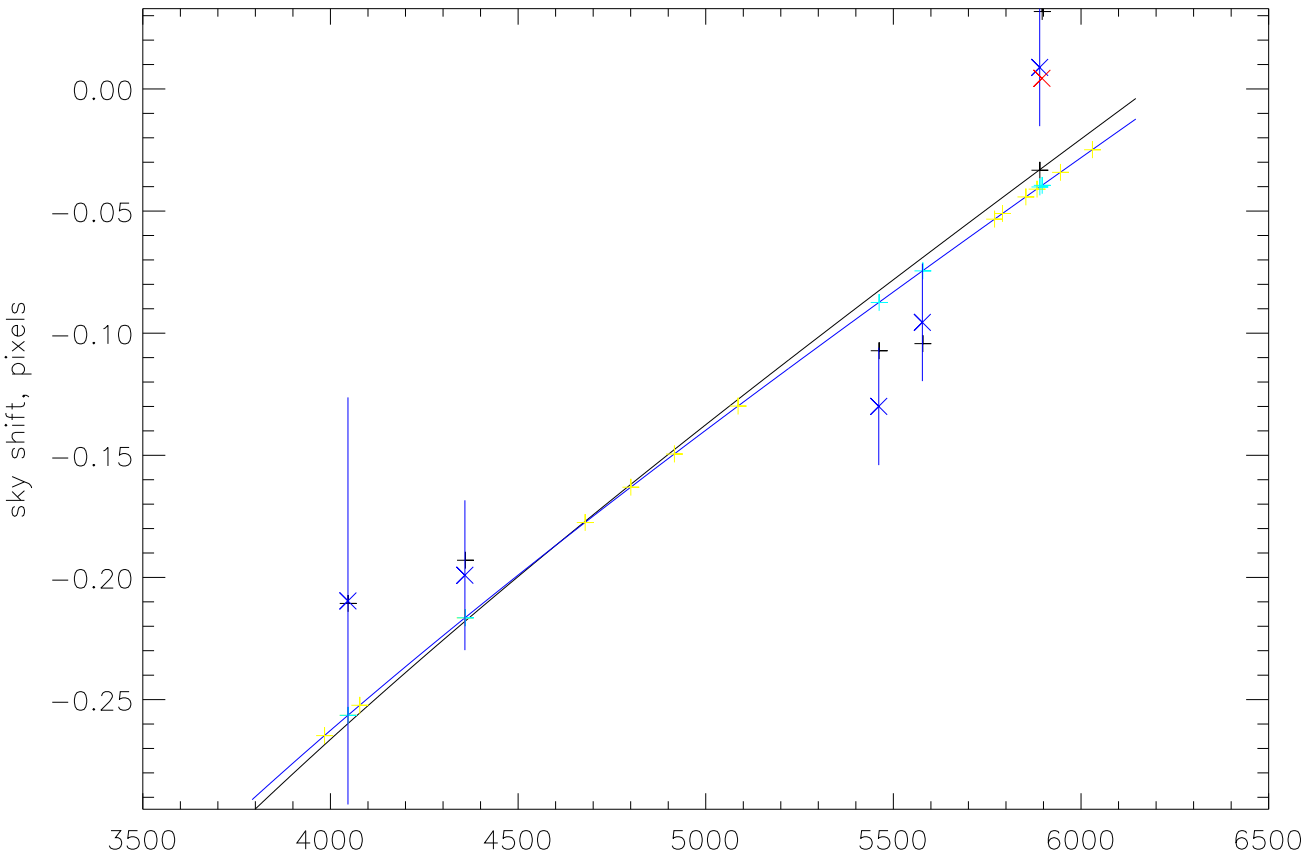

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

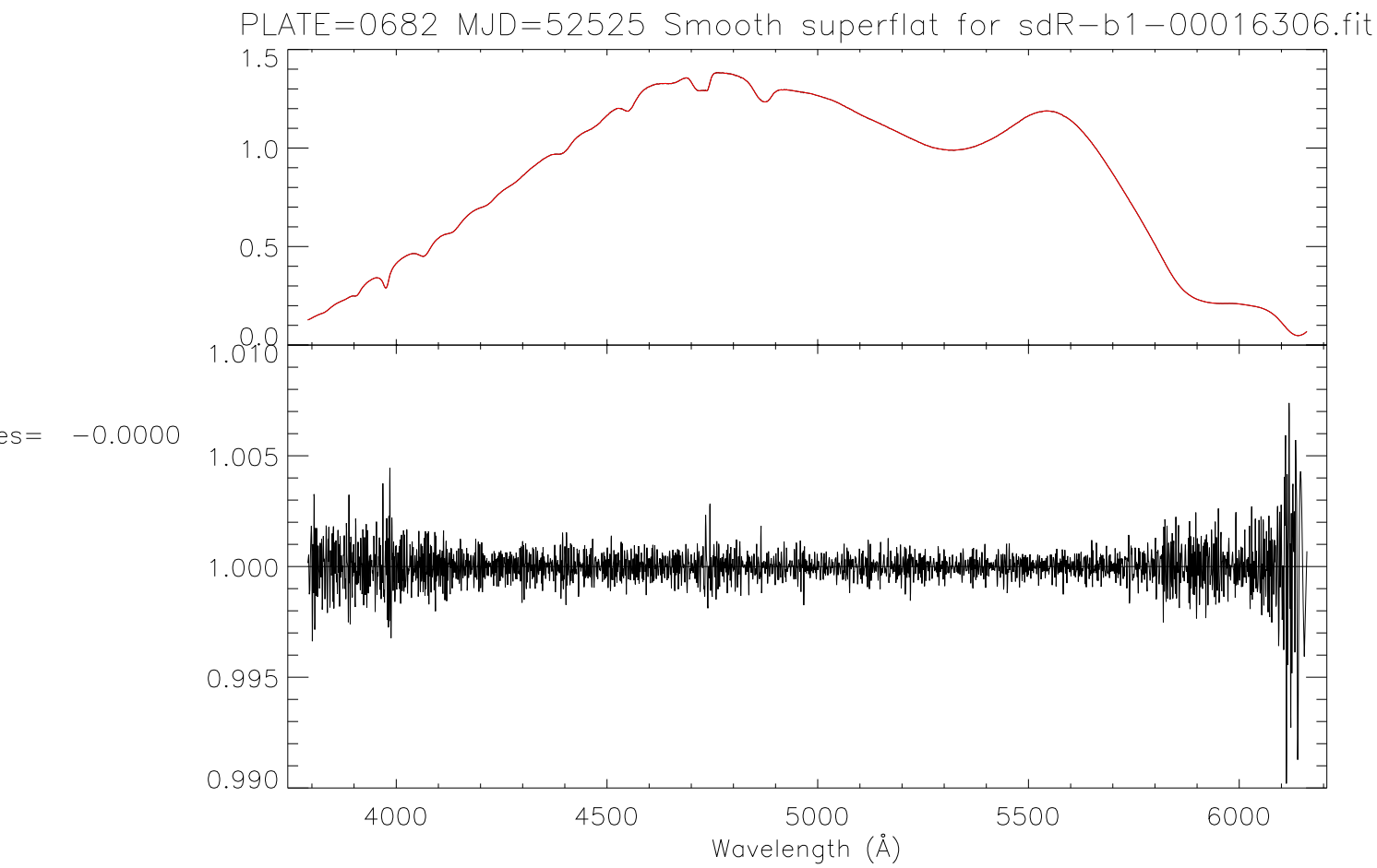

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

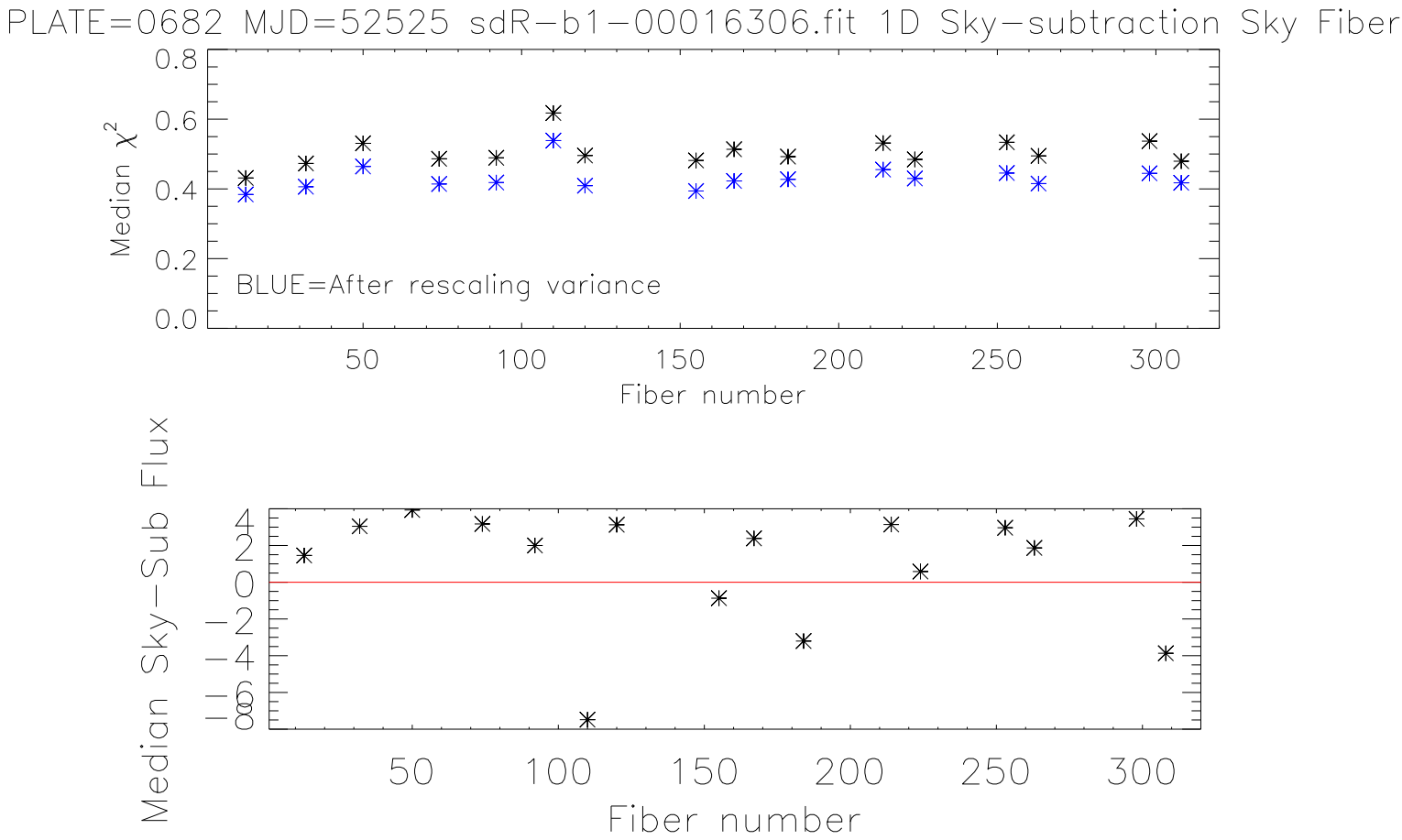

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

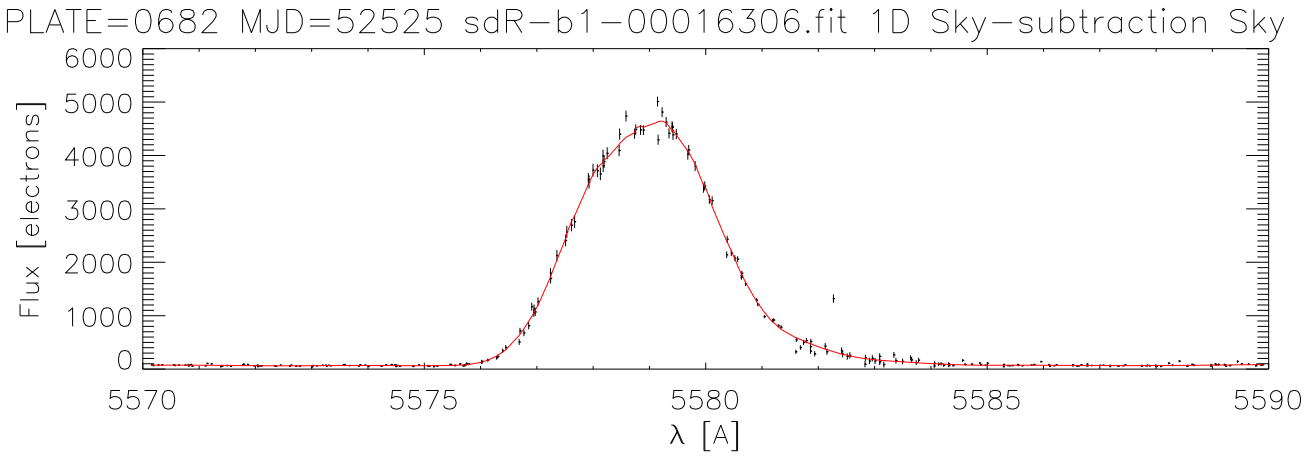

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

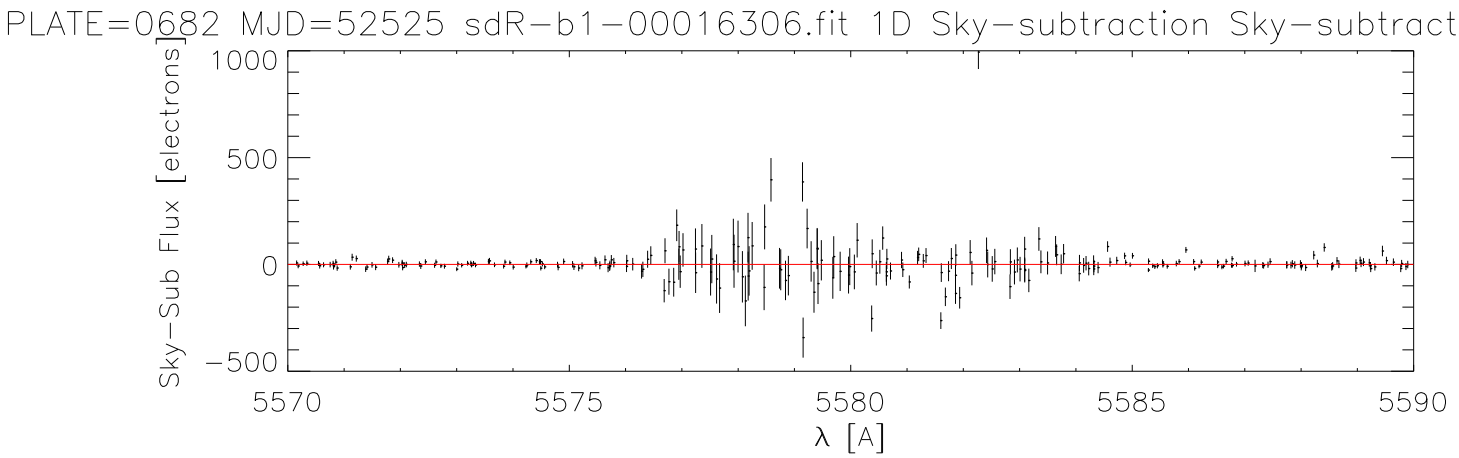

4046.5600
nfib1 15
nfib2 15
stdev 0.136
extra −0.21
4358.3300
nfib1 15
nfib2 15
stdev 0.055
extra −0.20
5460.9400
nfib1 16
nfib2 16
stdev 0.063
extra −0.13
5577.3390
nfib1 16
nfib2 16
stdev 0.026
extra −0.10
5889.9500
nfib1 16
nfib2 16
stdev 0.032
extra 0.01
5895.9240
nfib1 16
nfib2 16
stdev 0.037
extra 0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

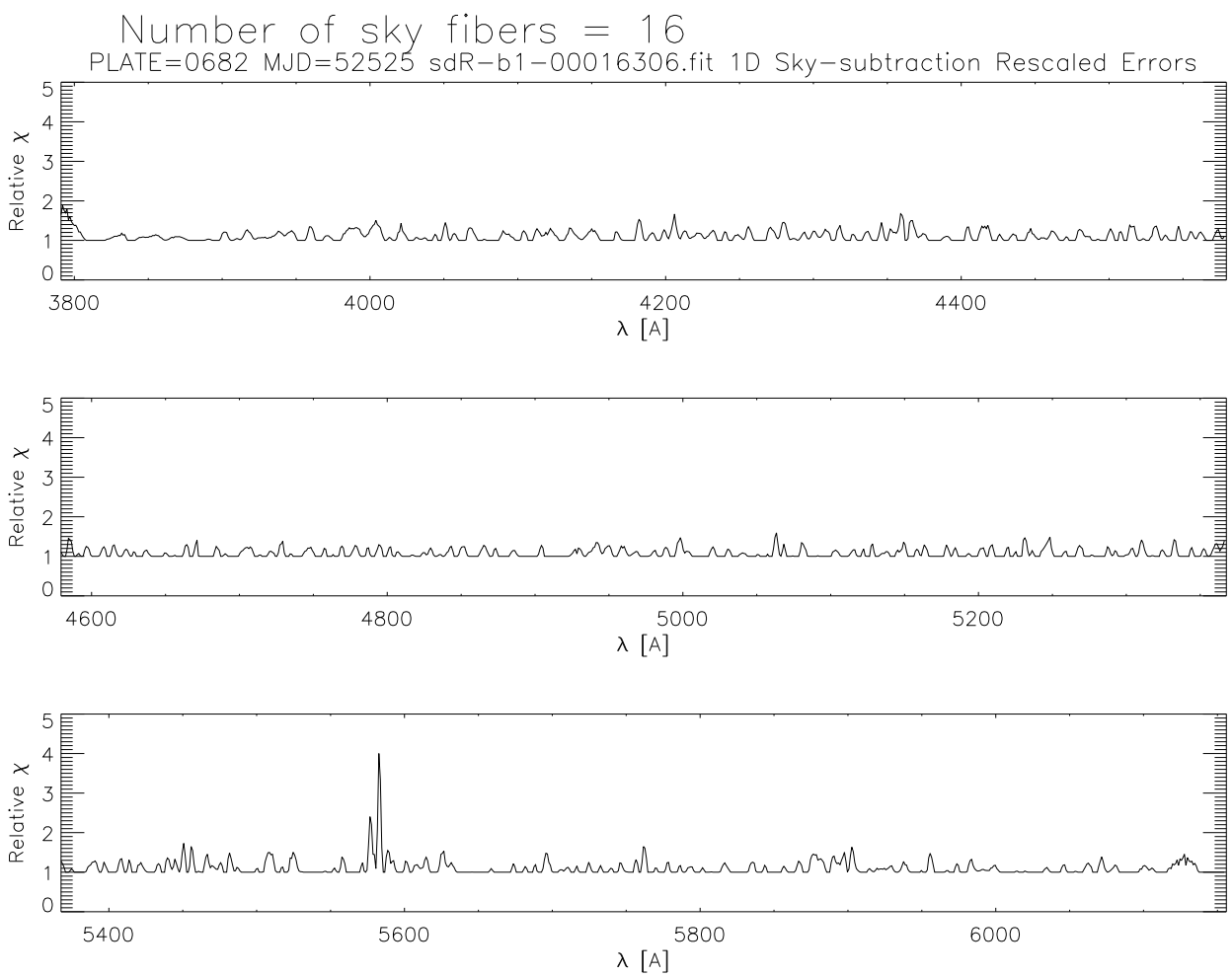

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

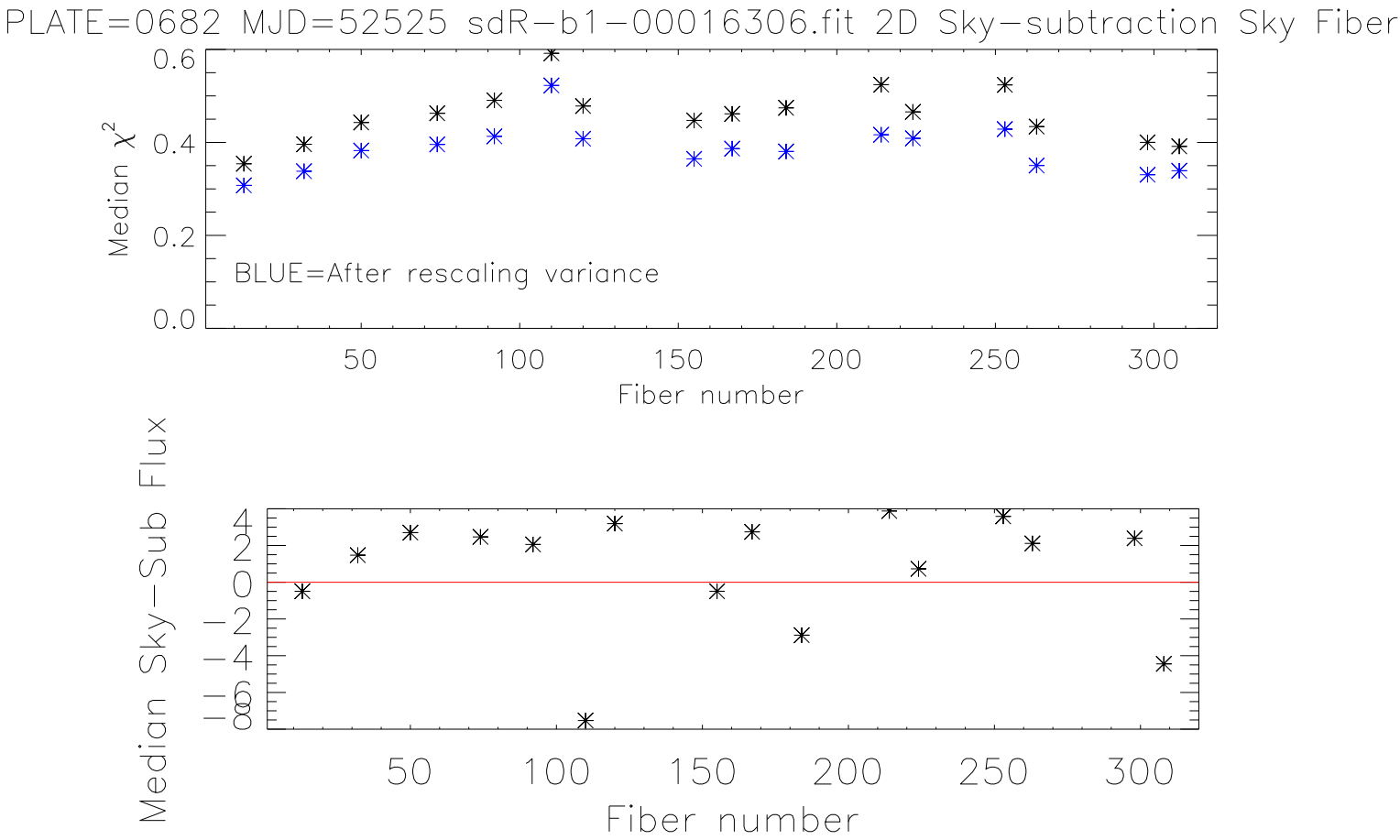

PLATE=0682 MJD=52525 Smooth superflat for sdR-b1-00016306.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

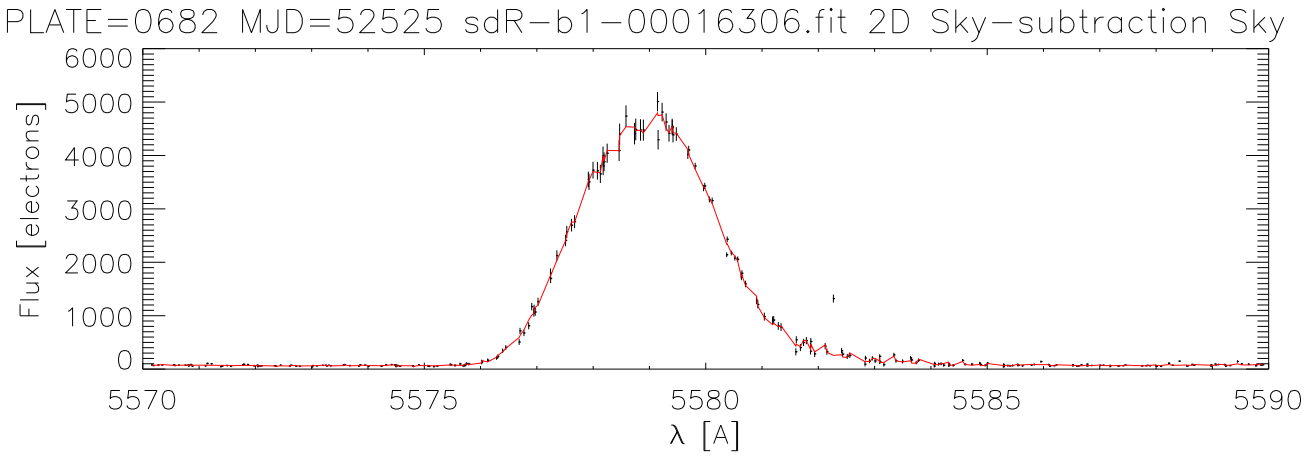

PLATE=0682 MJD=52525 sdR-b1-00016306.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

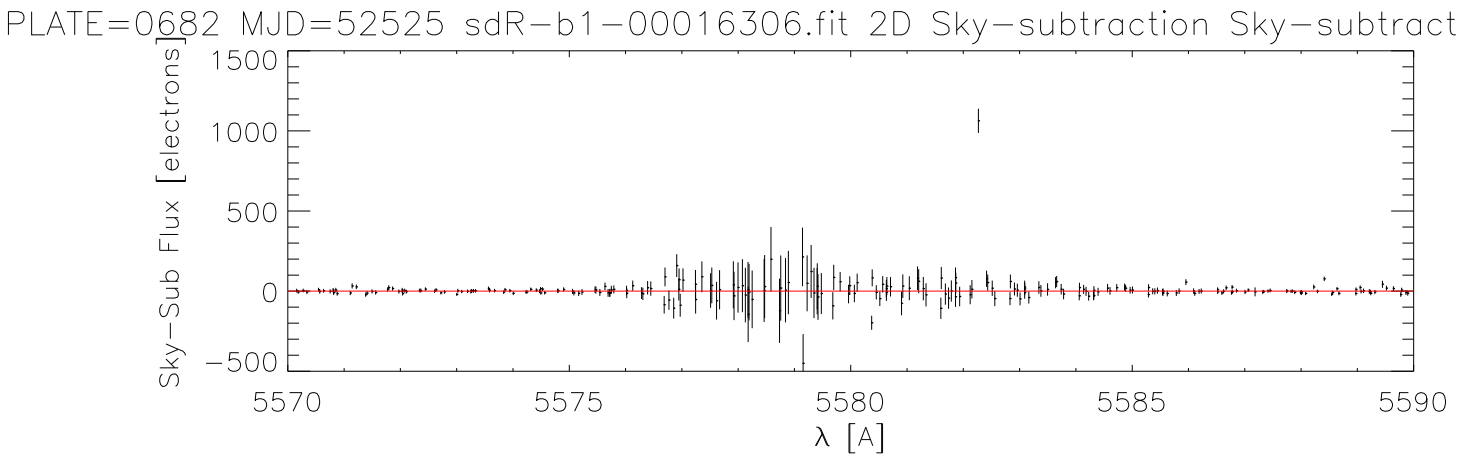

PLATE=0682 MJD=52525 sdR-b1-00016306.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

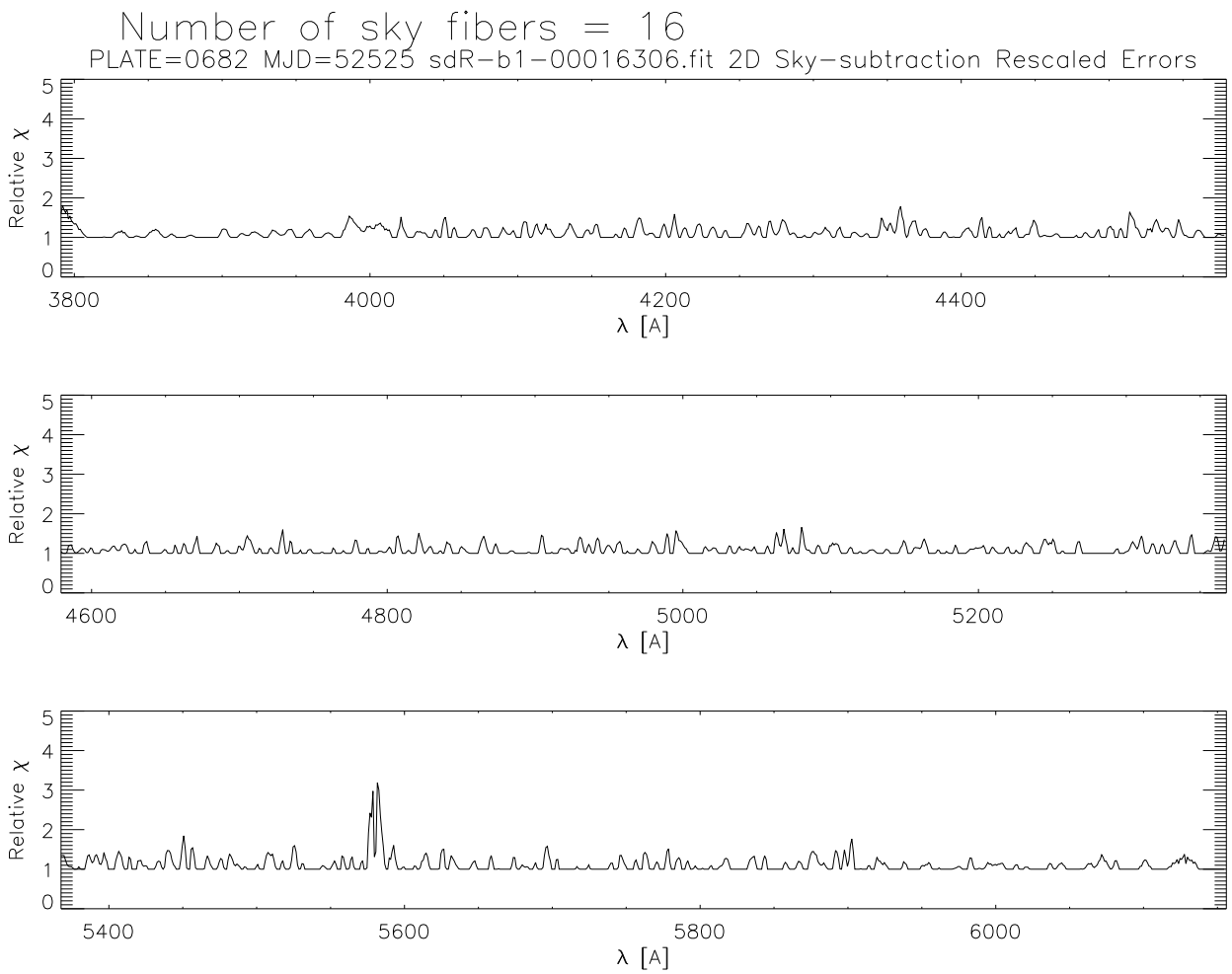

PLATE=0682 MJD=52525 sdR-b1-00016306.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

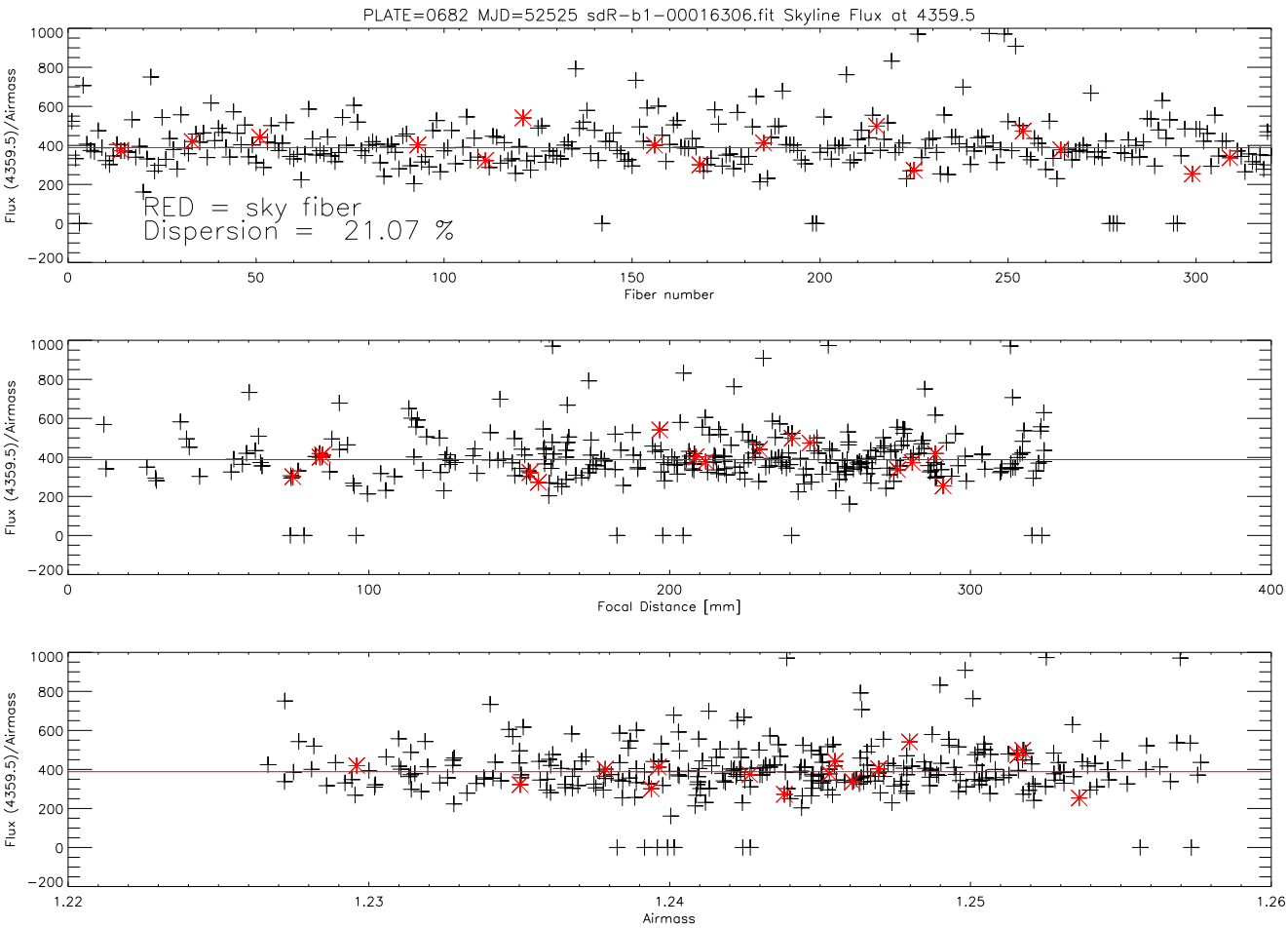

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b1-00016306.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

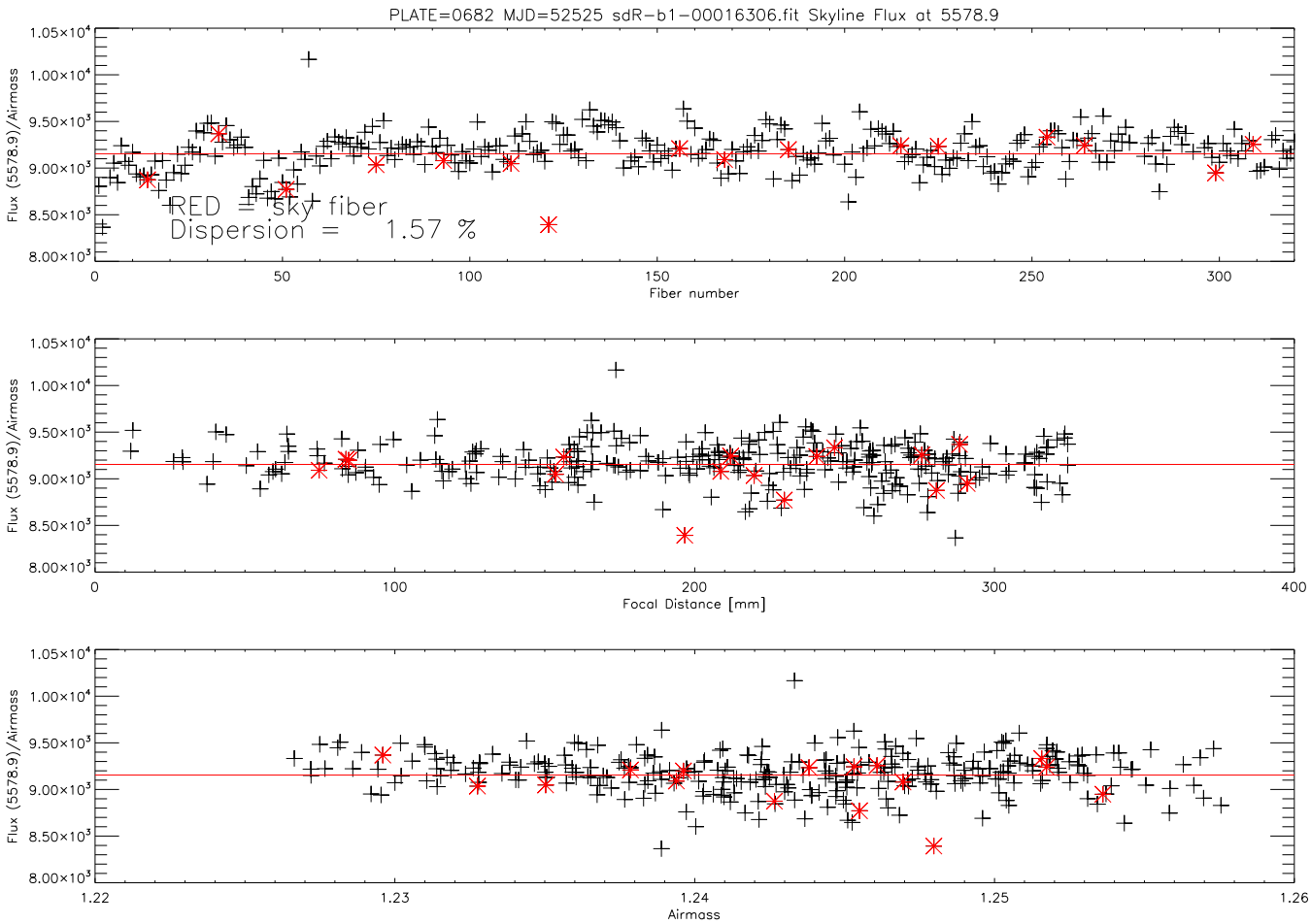

PLATE=0682 MJD=52525 sdR-b1-00016306.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.6
-0.4
-0.2
0.0
0.2
0.4
50
100
150
200
250
300
Fiber number

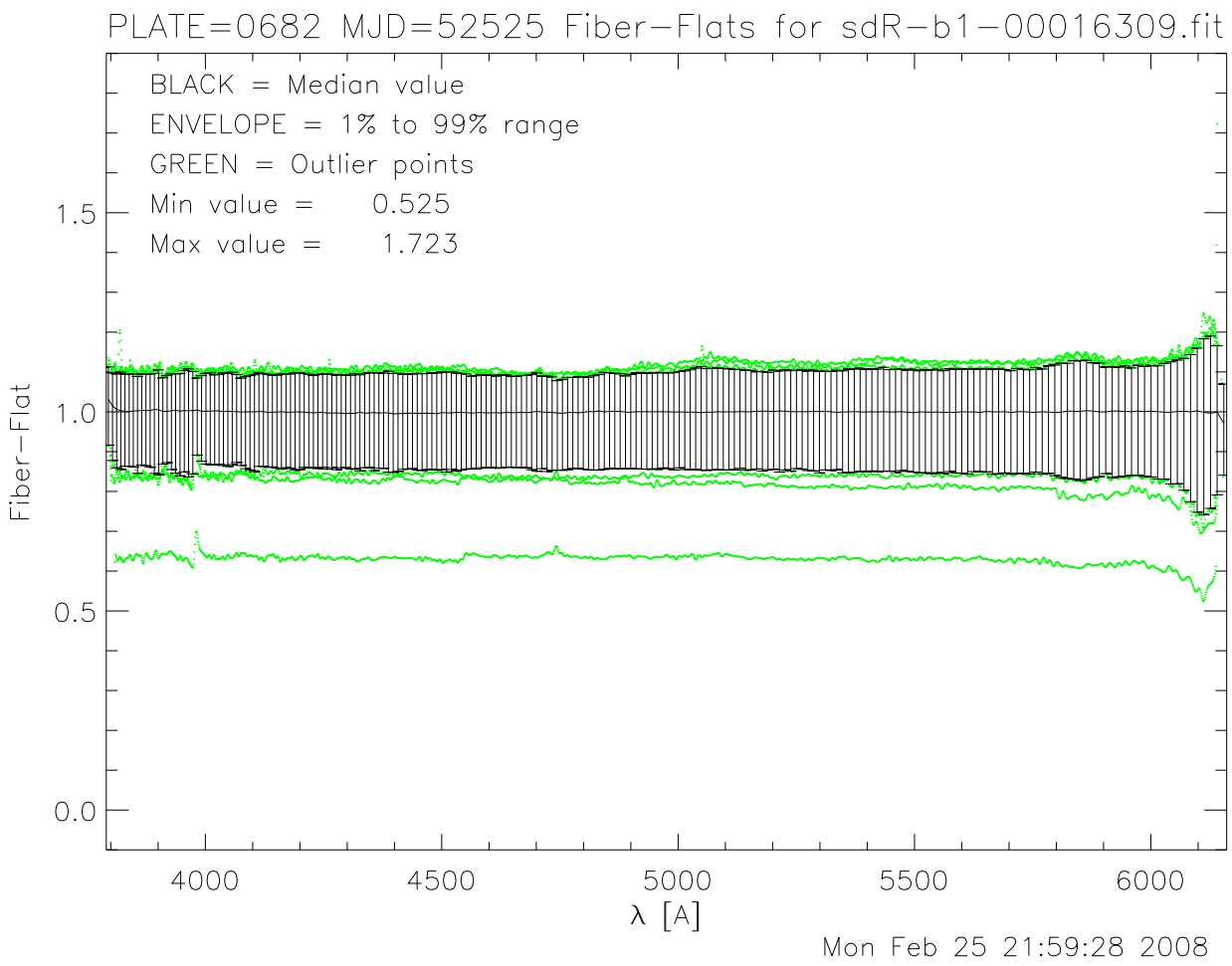

PLATE=0682 MJD=52525 sdR-b1-00016306.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

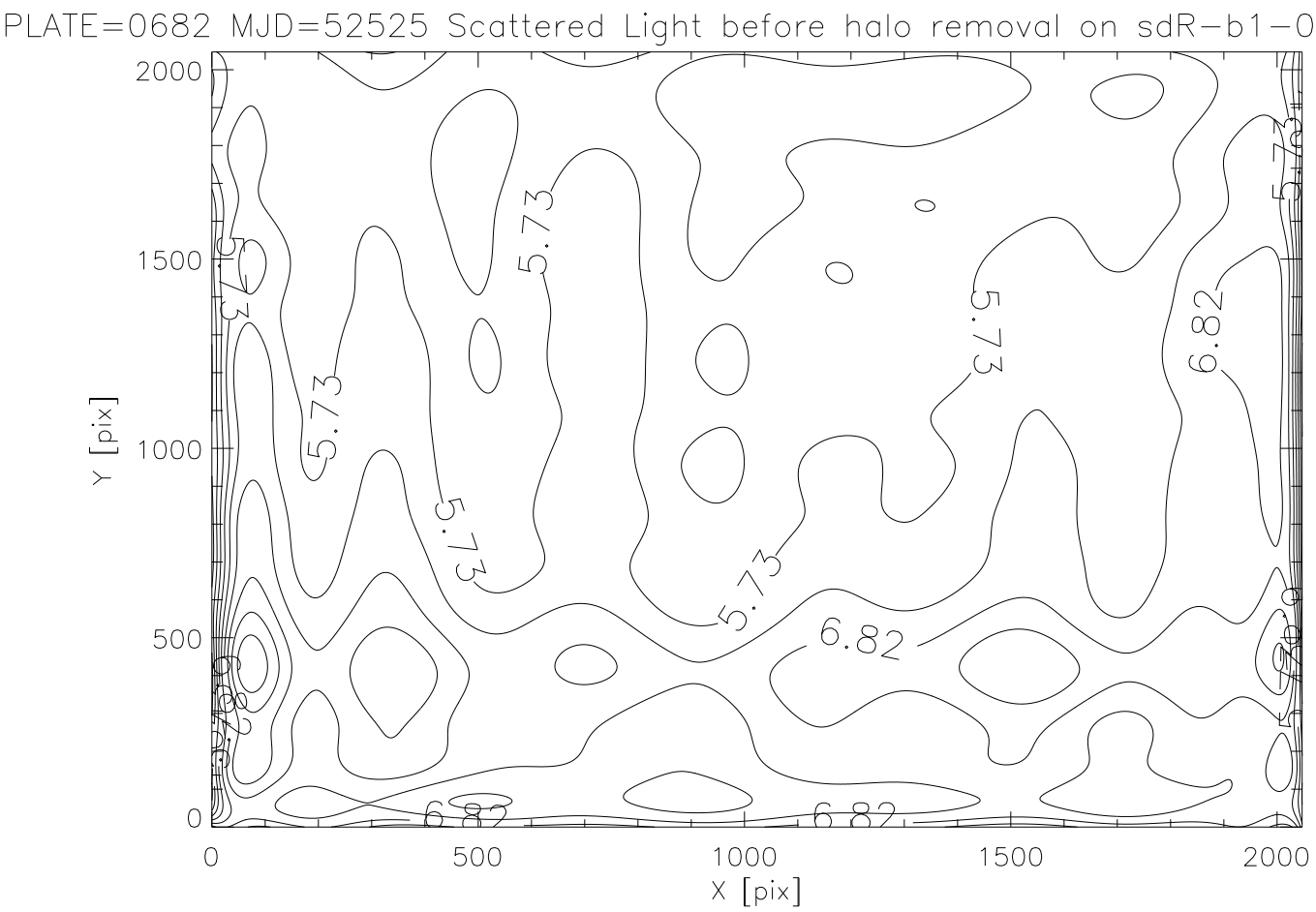

PLATE=0682 MJD=52525 sdR-b1-00016306.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

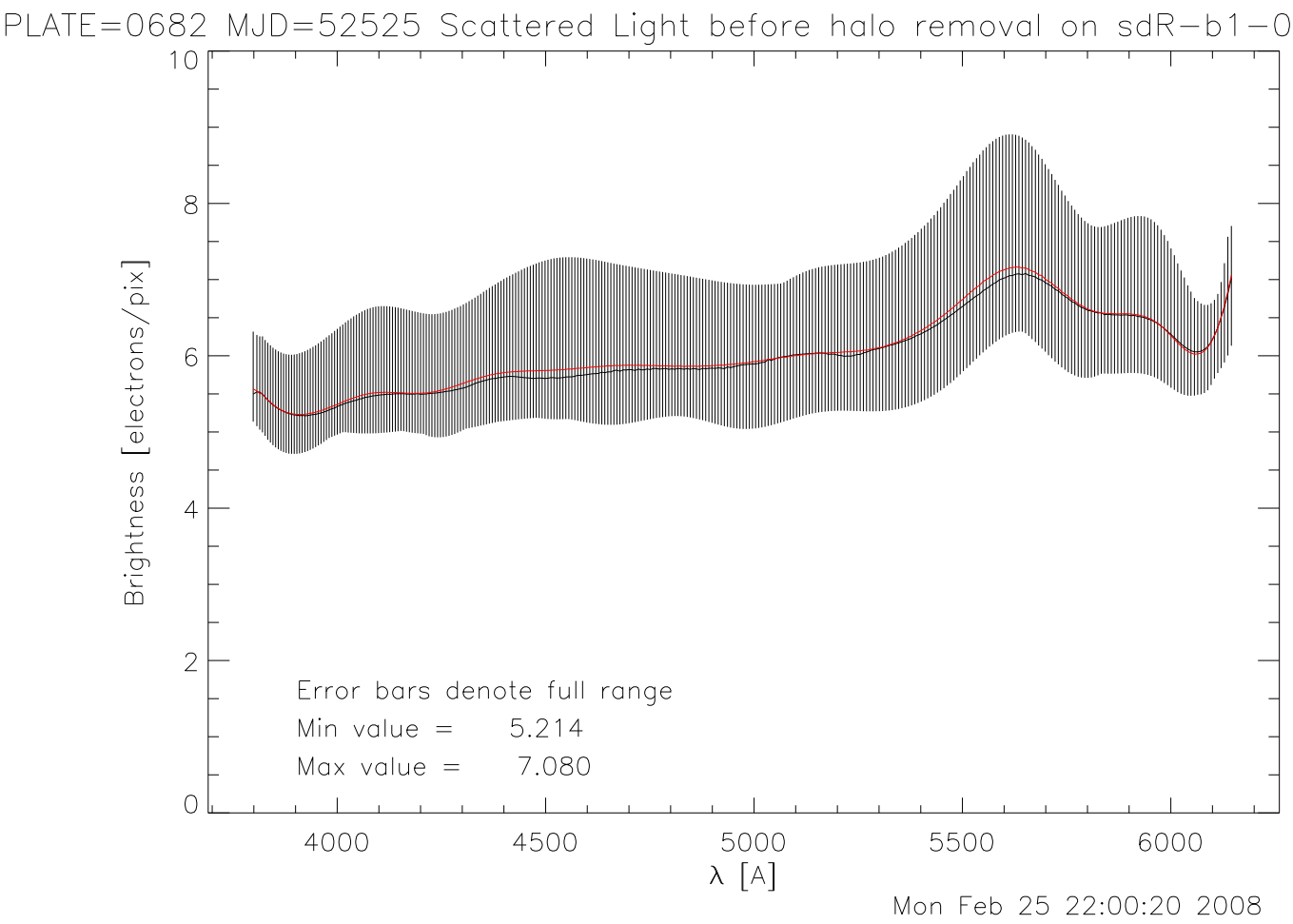

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b1-00016306.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

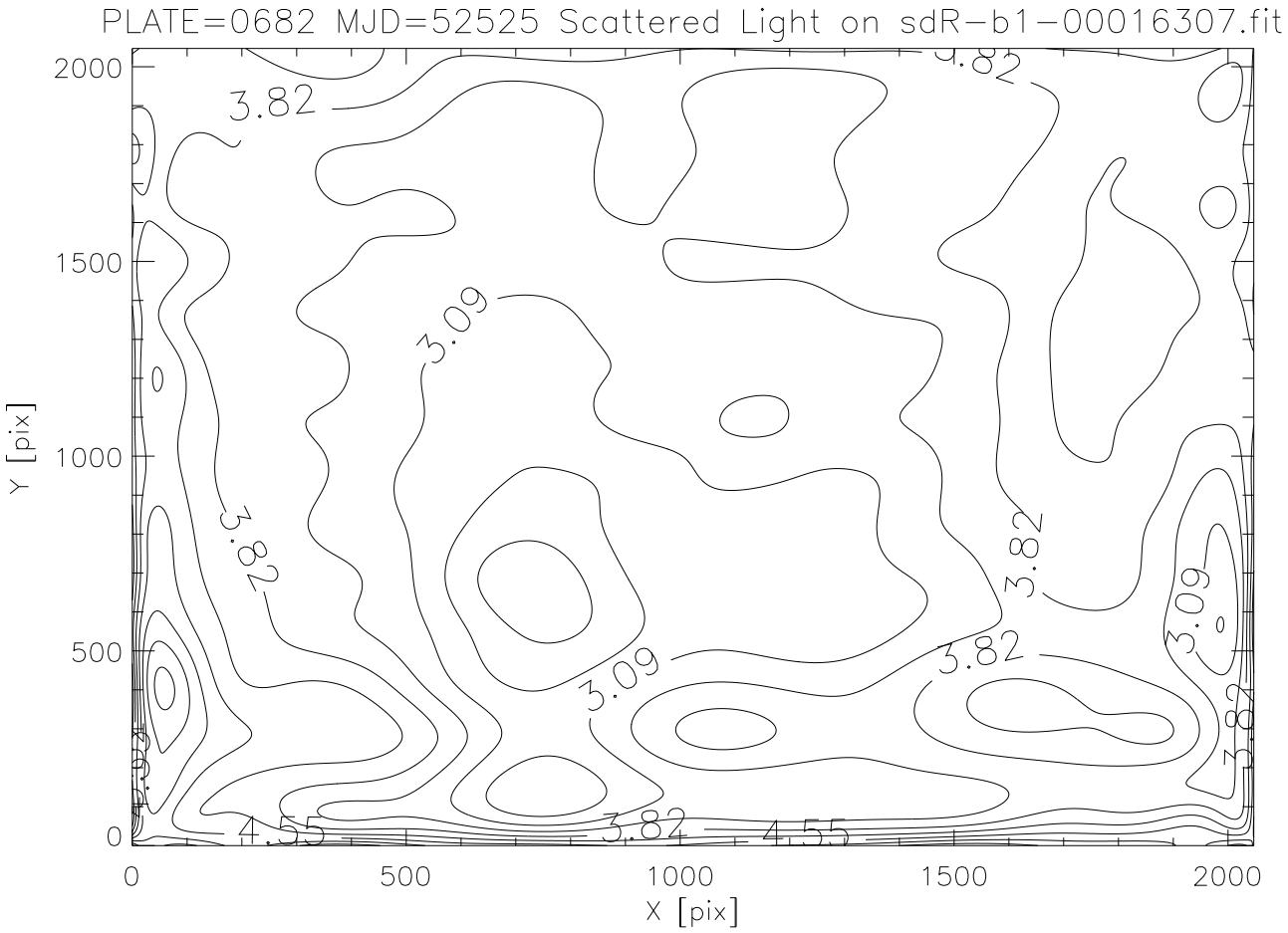

PLATE=0682 MJD=52525 sdR-b1-00016306.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 21.07 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

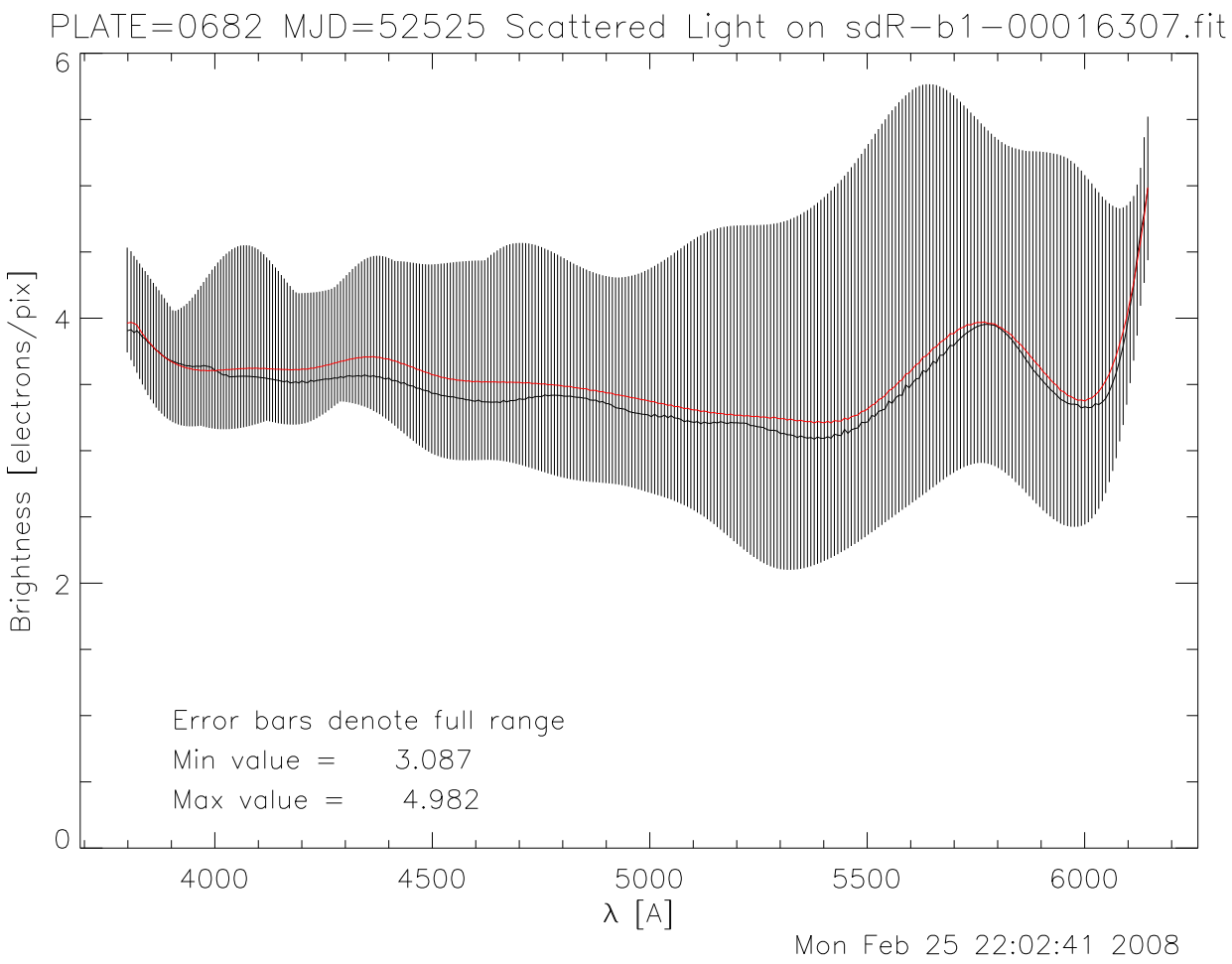

PLATE=0682 MJD=52525 sdR-b1-00016306.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
8.00×10³
RED = sky fiber
Dispersion = 1.57 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
1.22
1.23
1.24
1.25
1.26
Airmass


PLATE=0682 MJD=52525 Fiber−Flats for sdR−b1−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.525
Max value = 1.723
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 21:59:28 2008


PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR−b1−00016307.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.73
6.82


PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b1-00016307.f
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 5.214
Max value = 7.080
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:00:20 2008


PLATE=0682 MJD=52525 Scattered Light on sdR−b1−00016307.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.82
3.09
4.55


PLATE=0682 MJD=52525 Scattered Light on sdR-b1-00016307.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.087
Max value = 4.982
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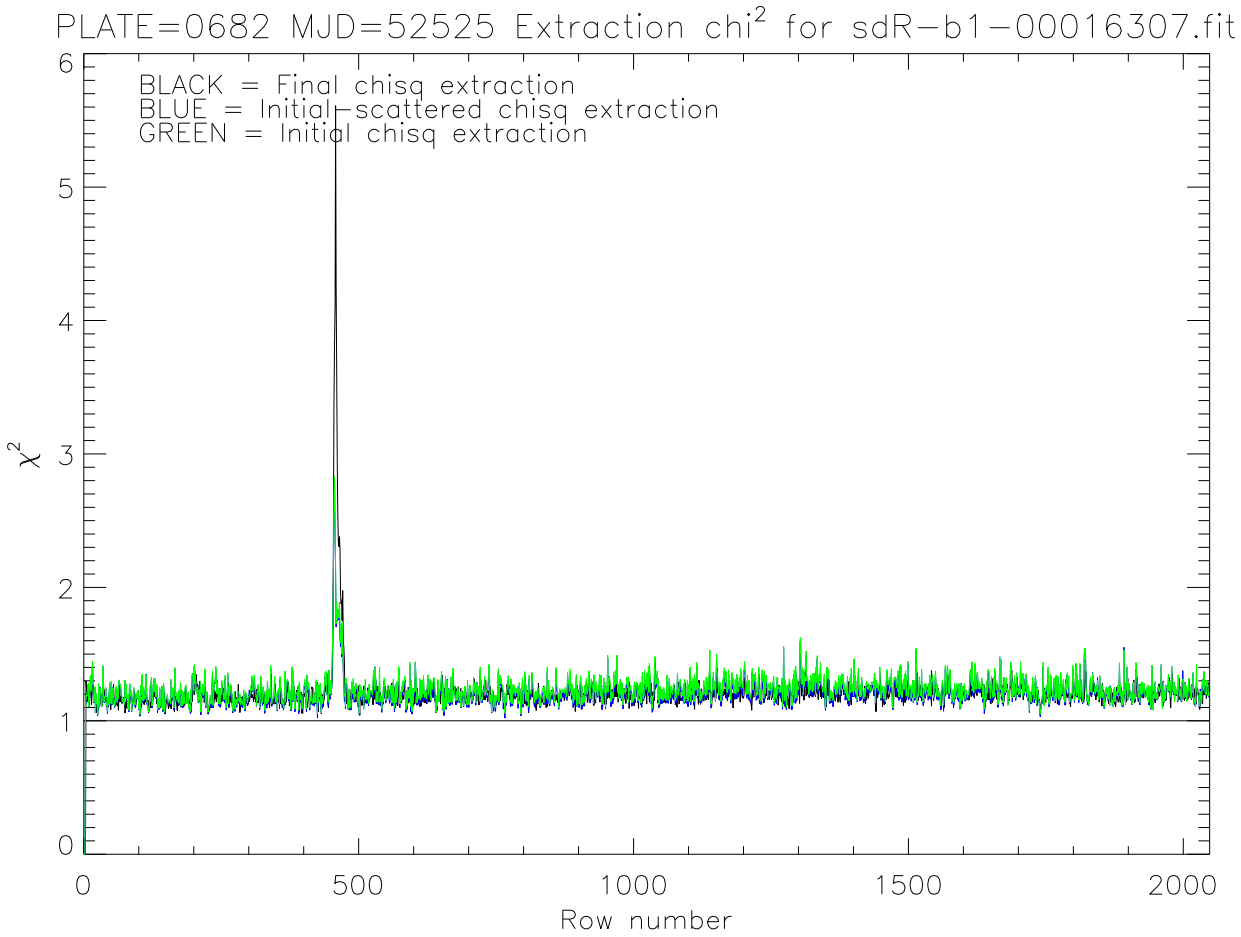
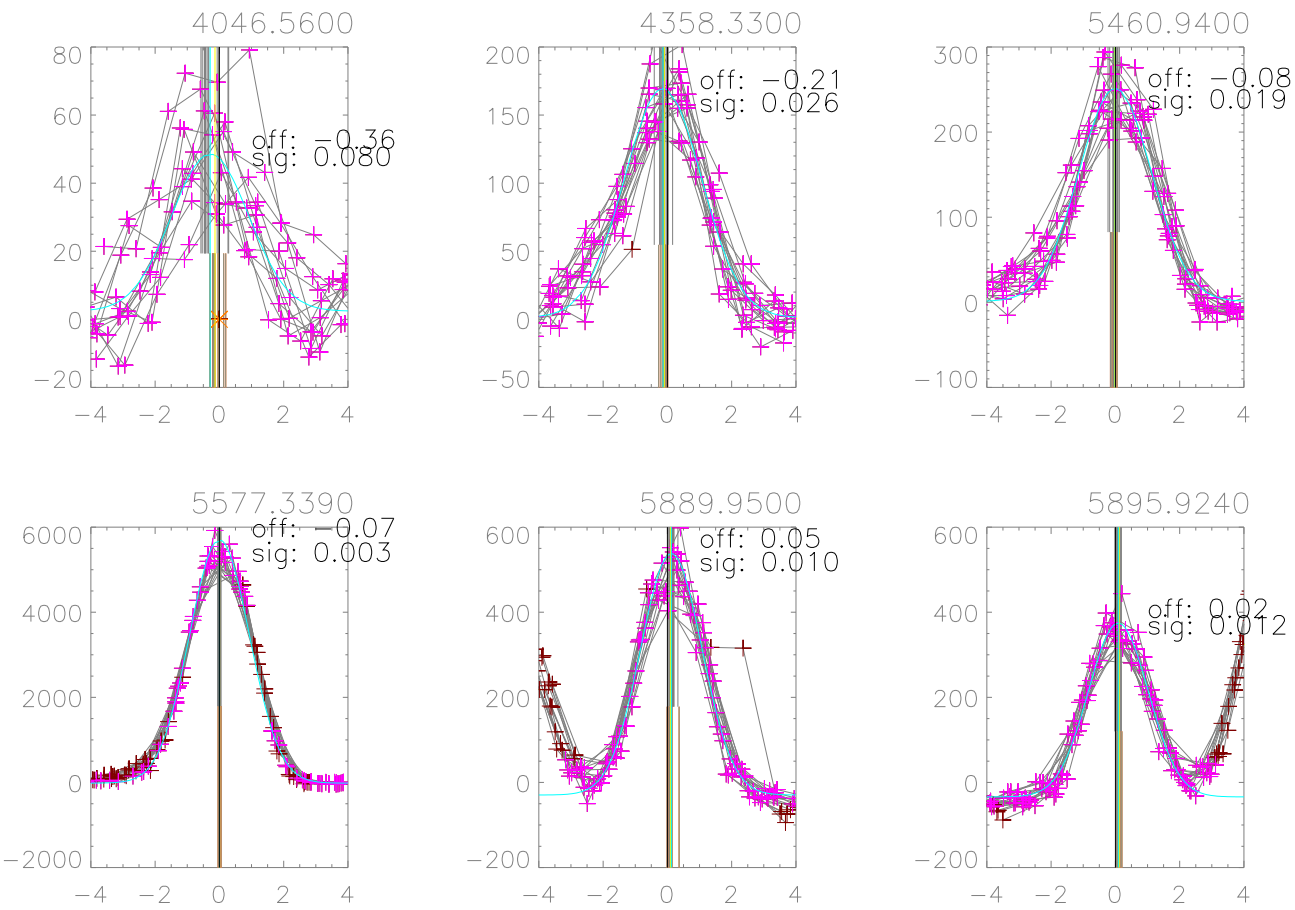
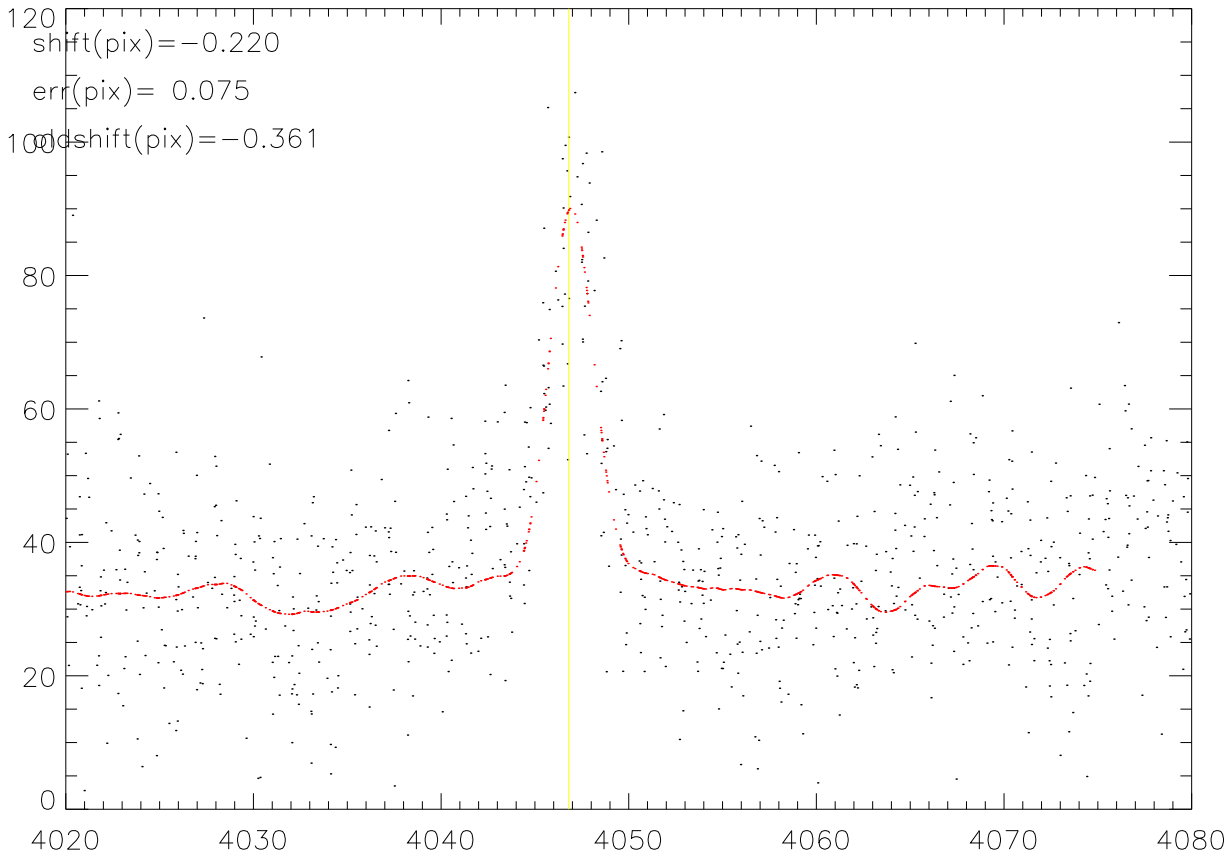
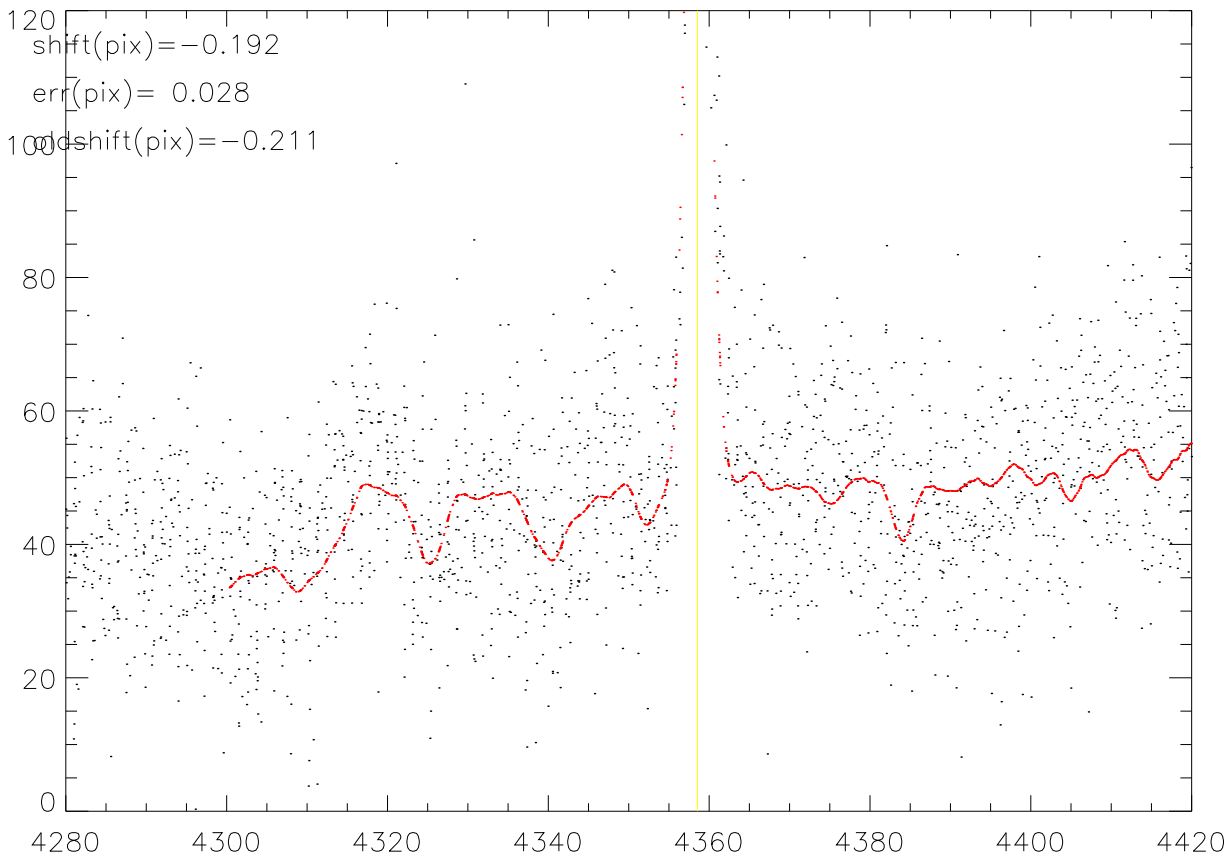
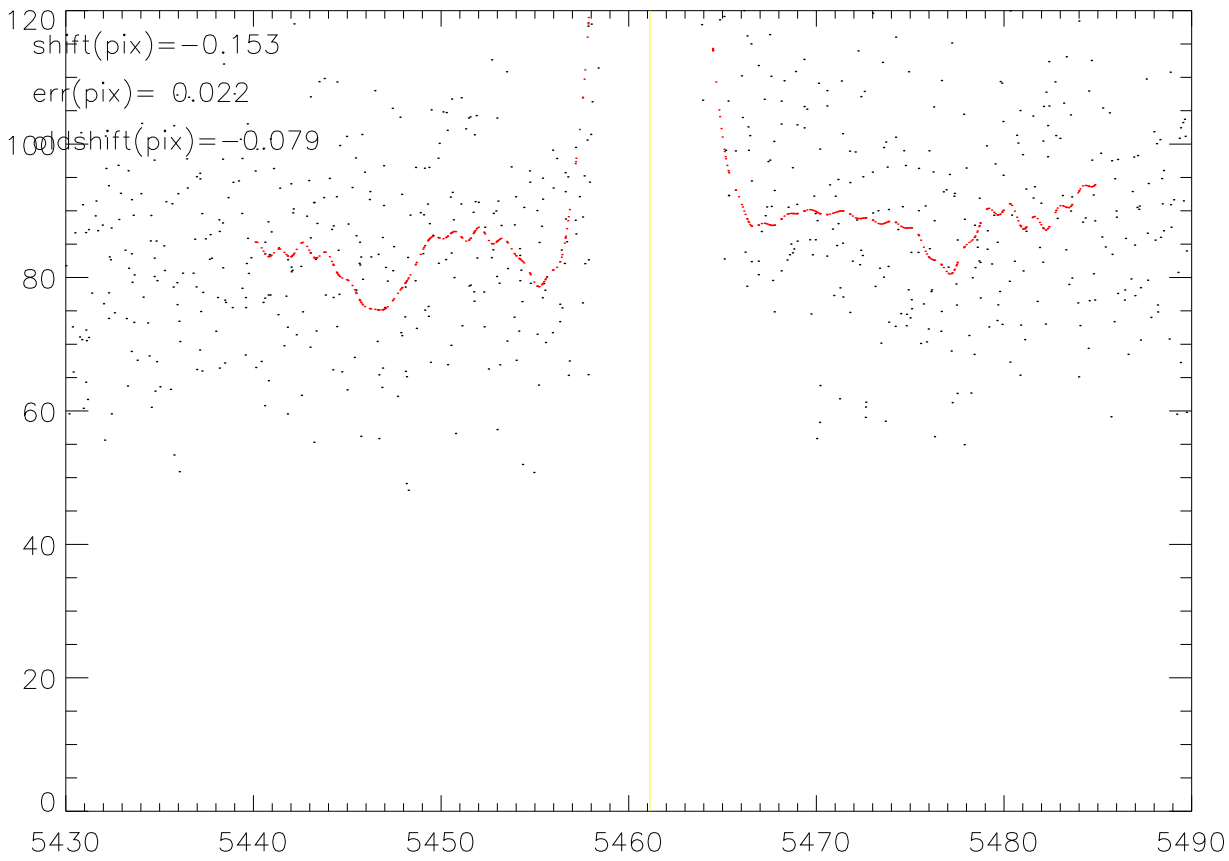
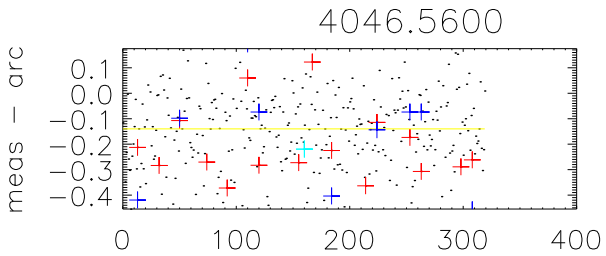

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR-b1-00016307.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

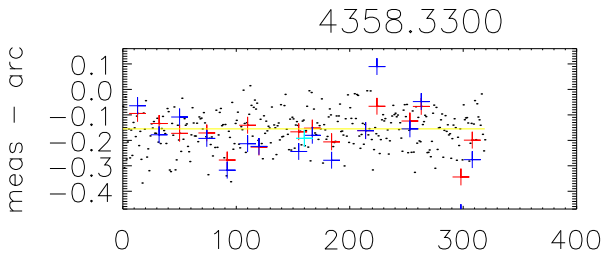

4046.5600
off: −0.36
sig: 0.080
4358.3300
off: −0.21
sig: 0.026
5460.9400
off: −0.08
sig: 0.019
5577.3390
off: −0.07
sig: 0.003
5889.9500
off: 0.05
sig: 0.010
5895.9240
off: 0.02
sig: 0.012

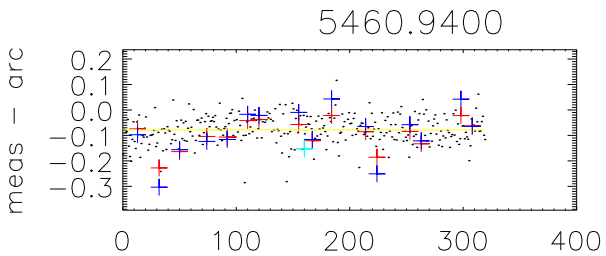

shift(pix)=−0.220
err(pix)= 0.075
oldshift(pix)=−0.361
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

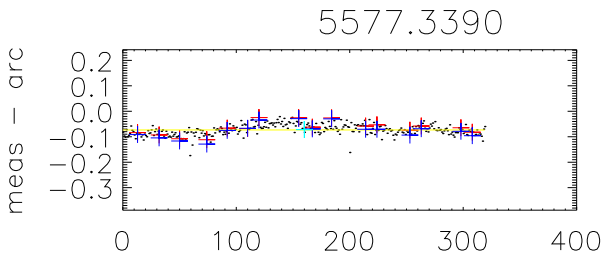

shift(pix)=−0.192
err(pix)= 0.028
oldshift(pix)=−0.211
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

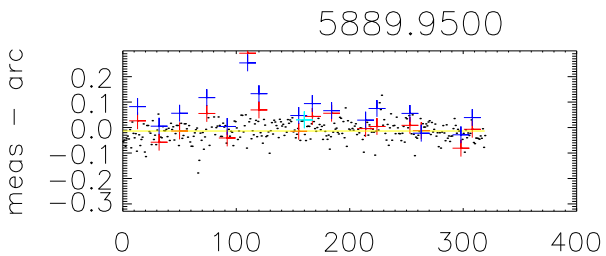

shift(pix)=−0.153
err(pix)= 0.022
oldshift(pix)=−0.079
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

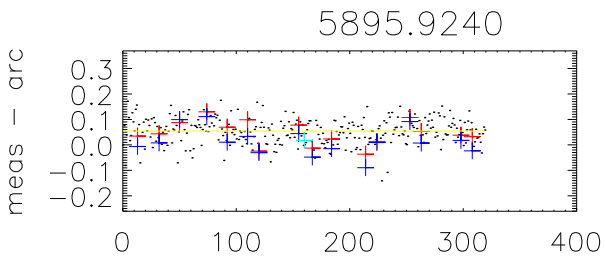

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

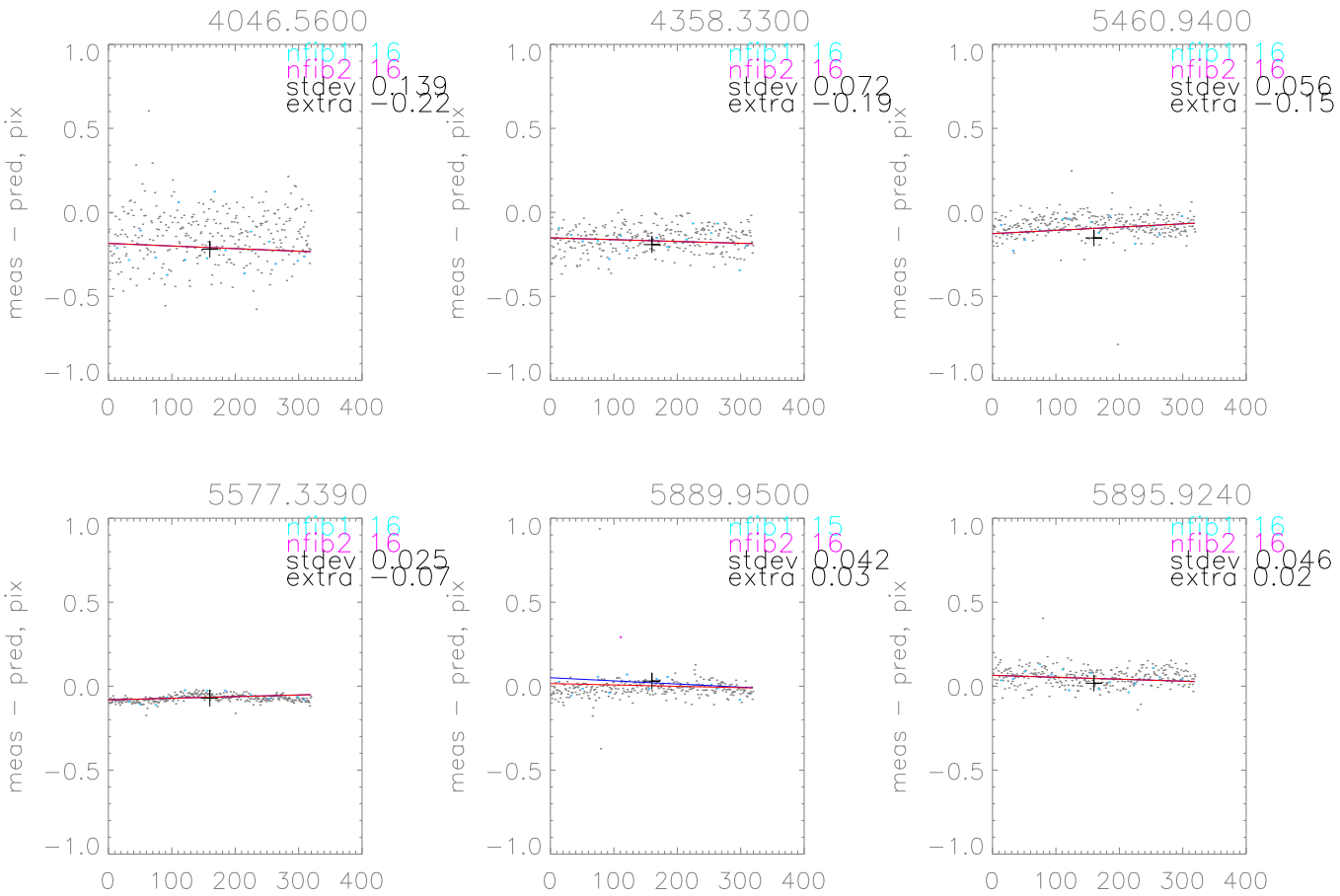

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

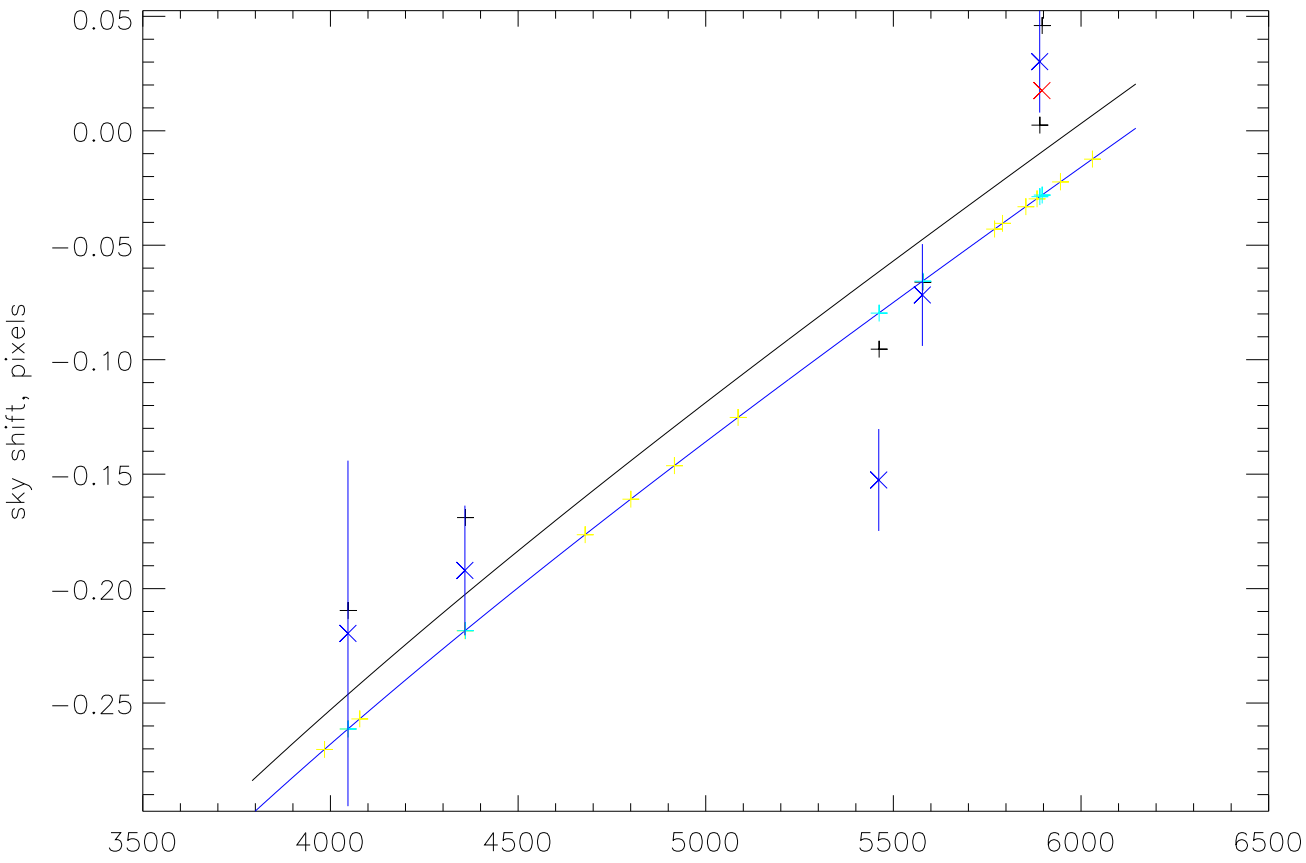

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

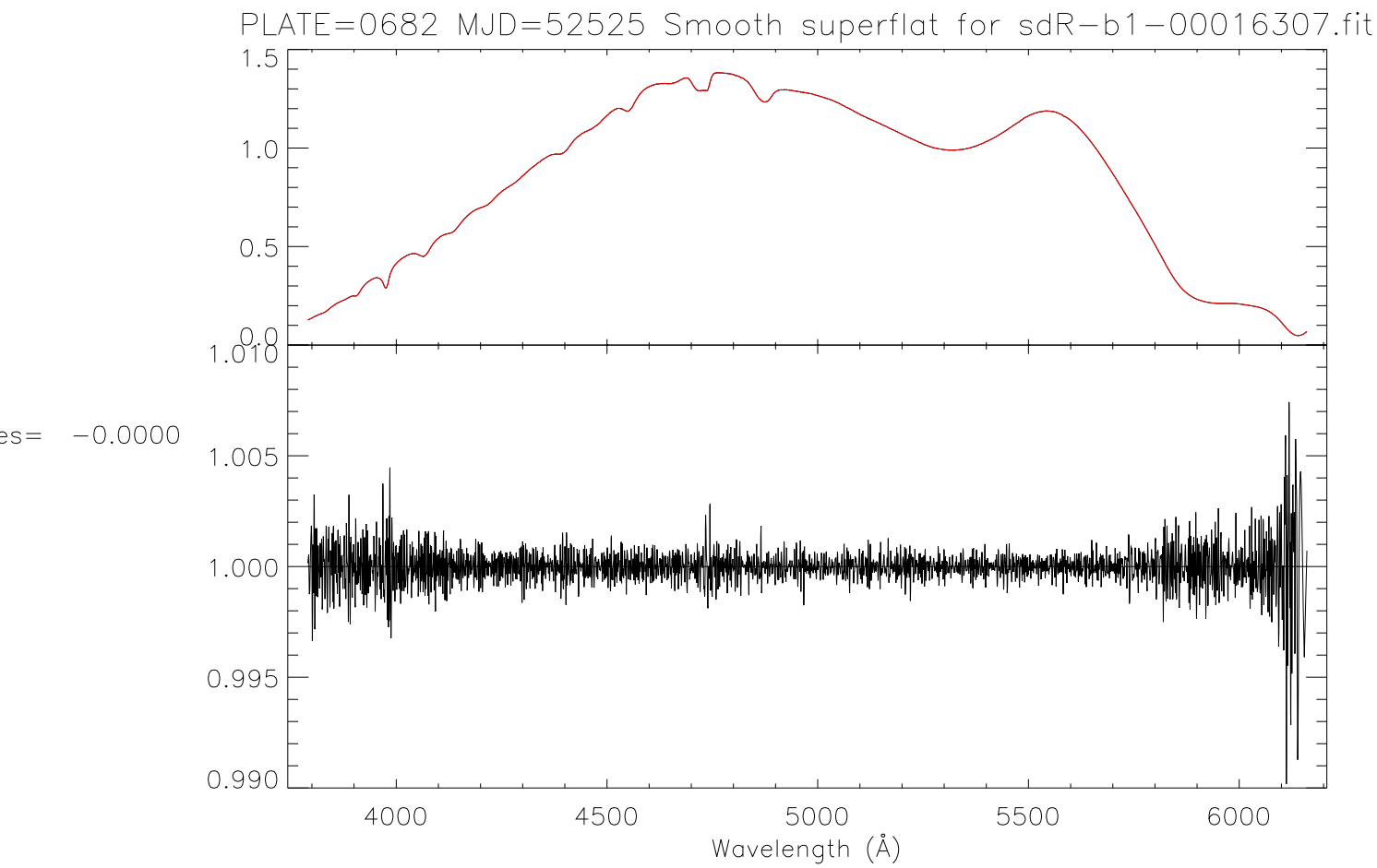

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

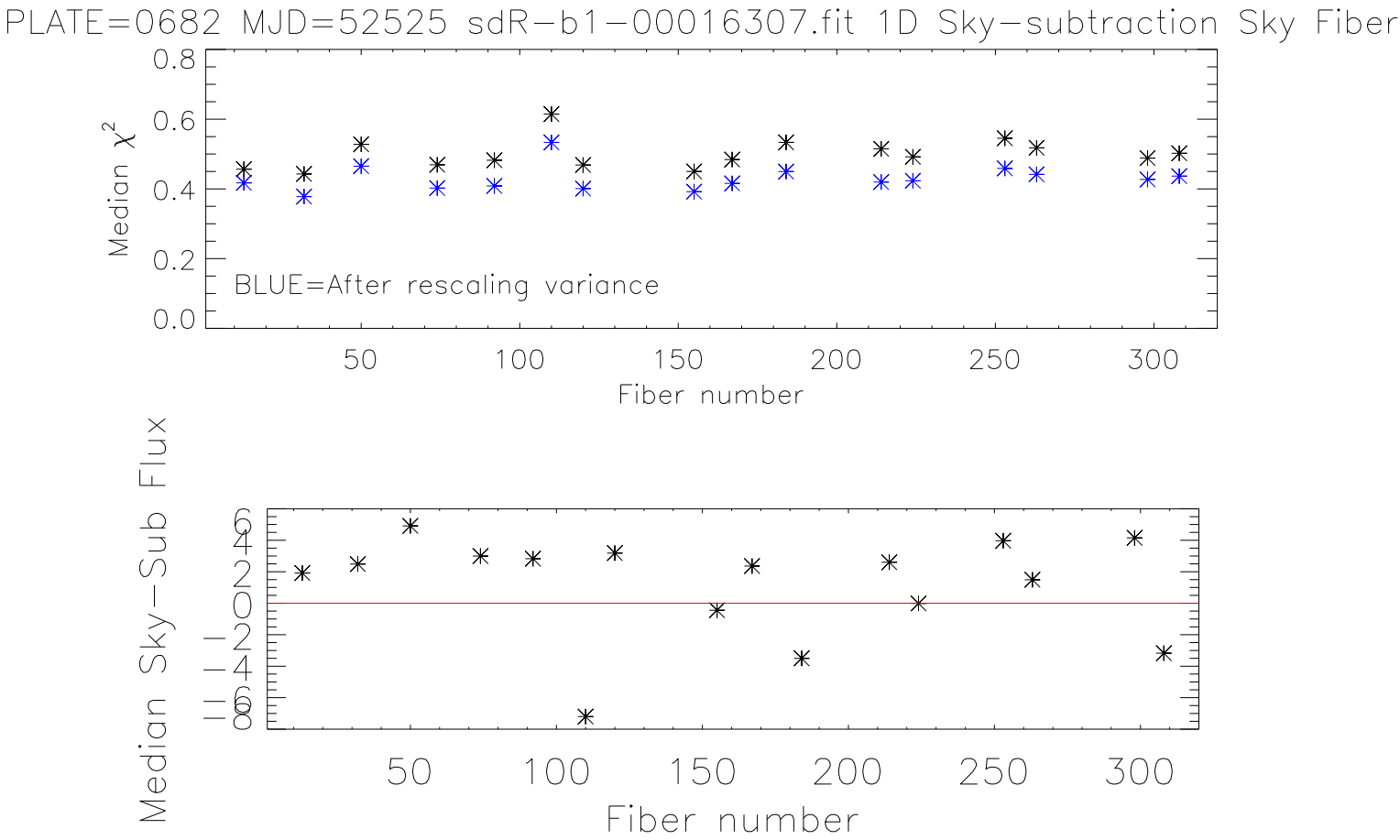

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

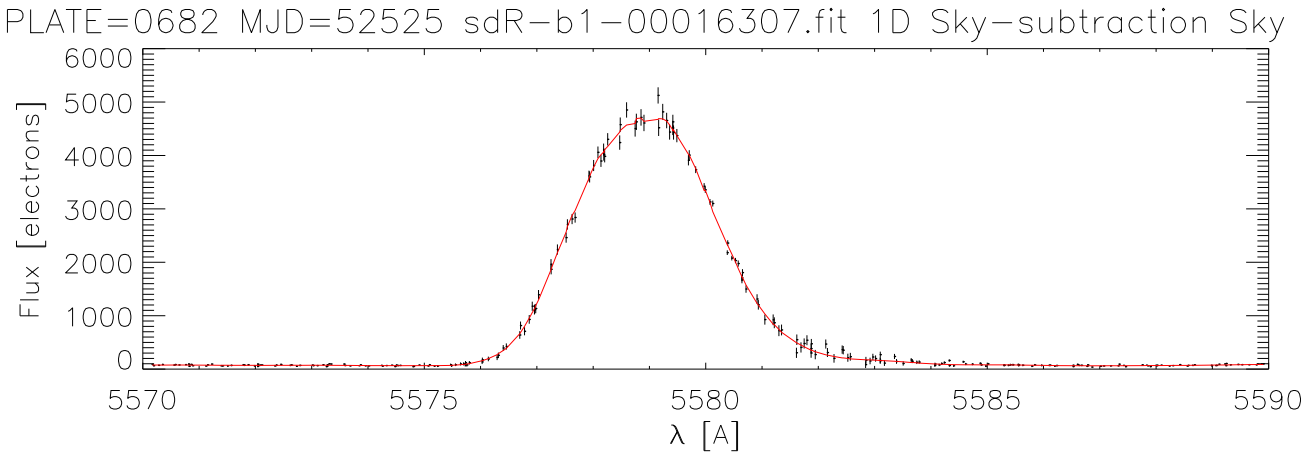

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

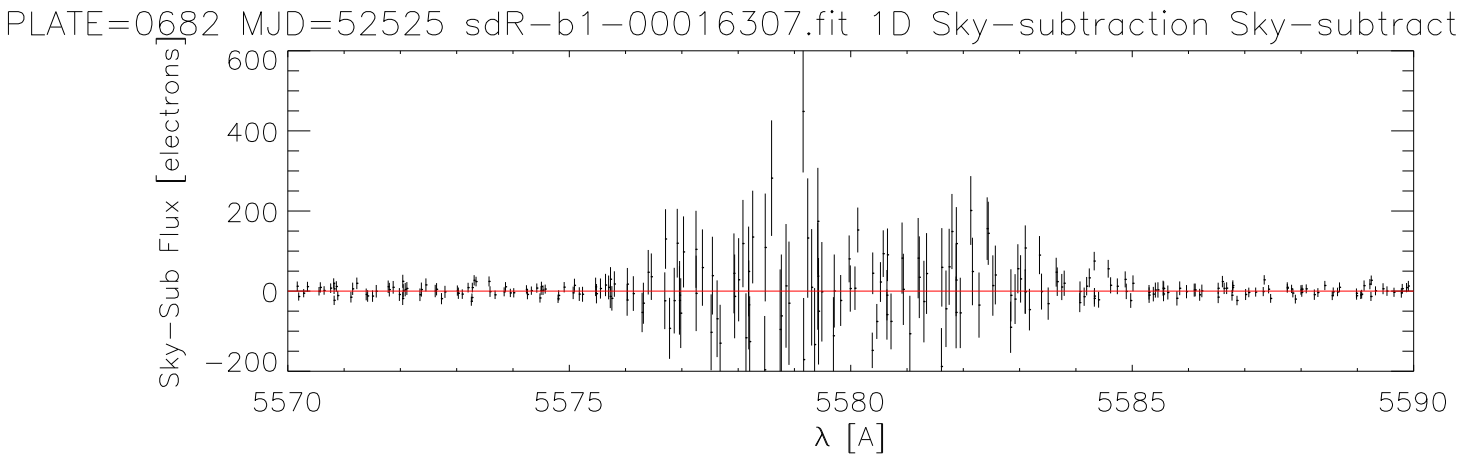

4046.5600
nfib1 16
nfib2 16
stdev 0.139
extra −0.22
4358.3300
nfib1 16
nfib2 16
stdev 0.072
extra −0.19
5460.9400
nfib1 16
nfib2 16
stdev 0.056
extra −0.15
5577.3390
nfib1 16
nfib2 16
stdev 0.025
extra −0.07
5889.9500
nfib1 15
nfib2 16
stdev 0.042
extra 0.03
5895.9240
nfib1 16
nfib2 16
stdev 0.046
extra 0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

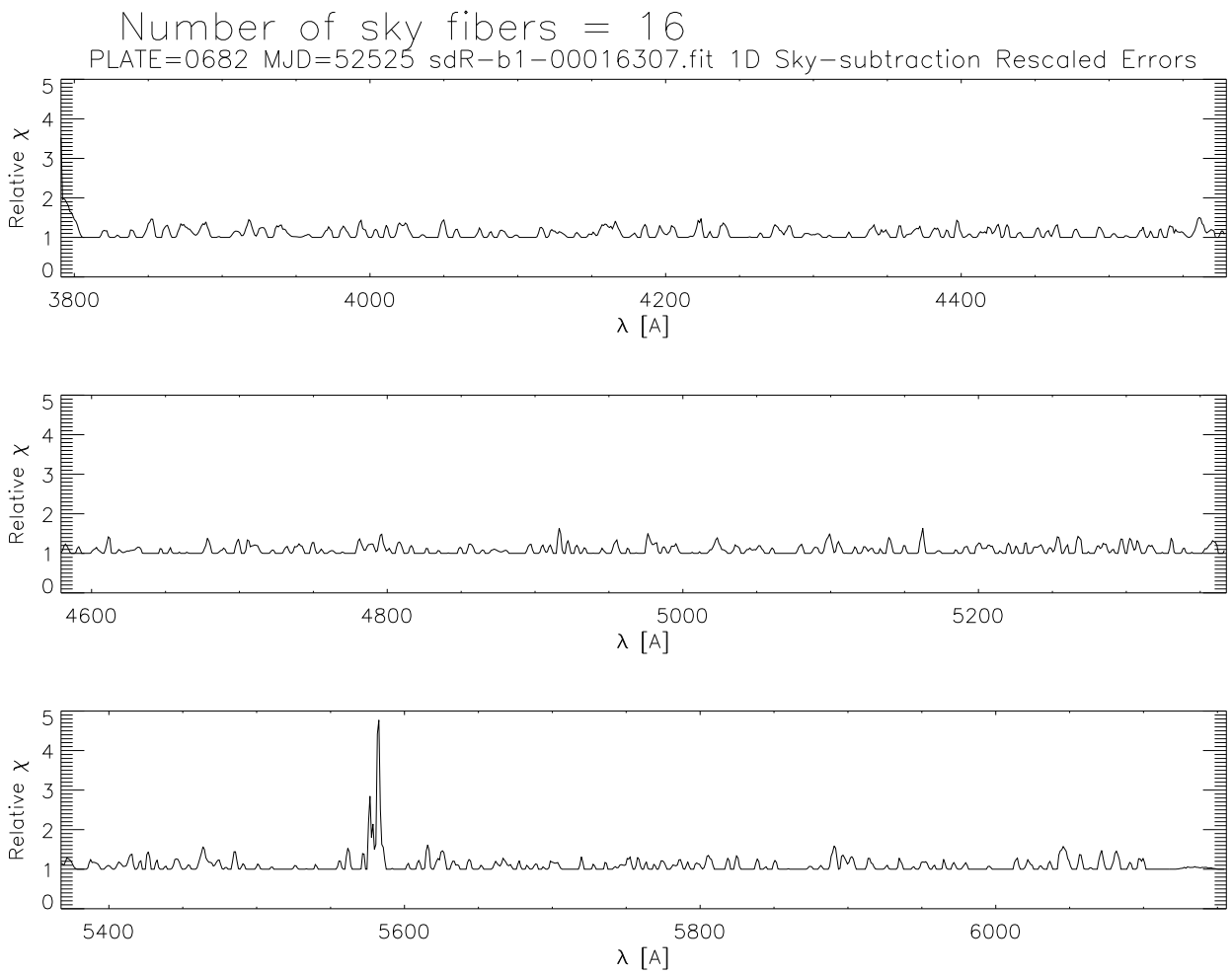

0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

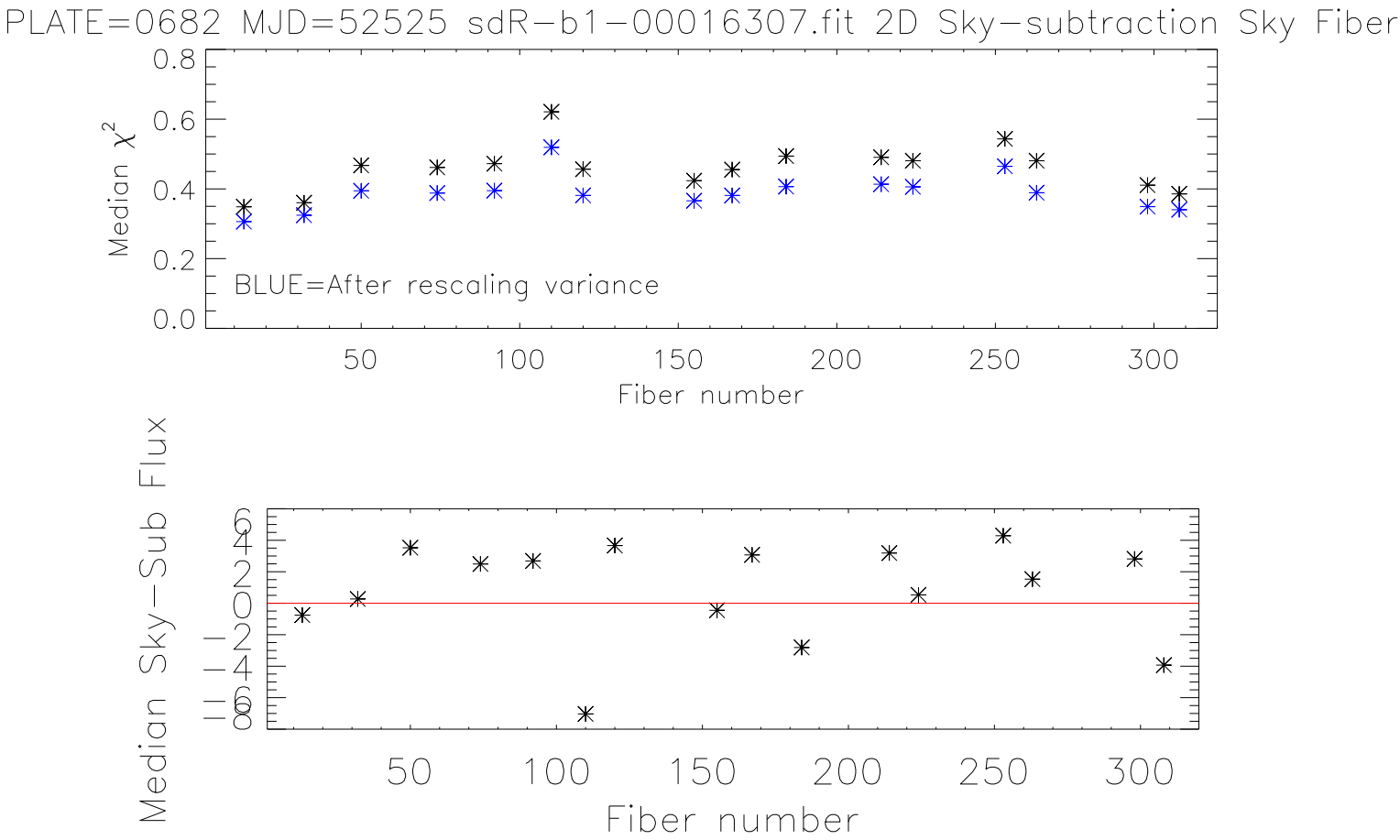

PLATE=0682 MJD=52525 Smooth superflat for sdR-b1-00016307.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

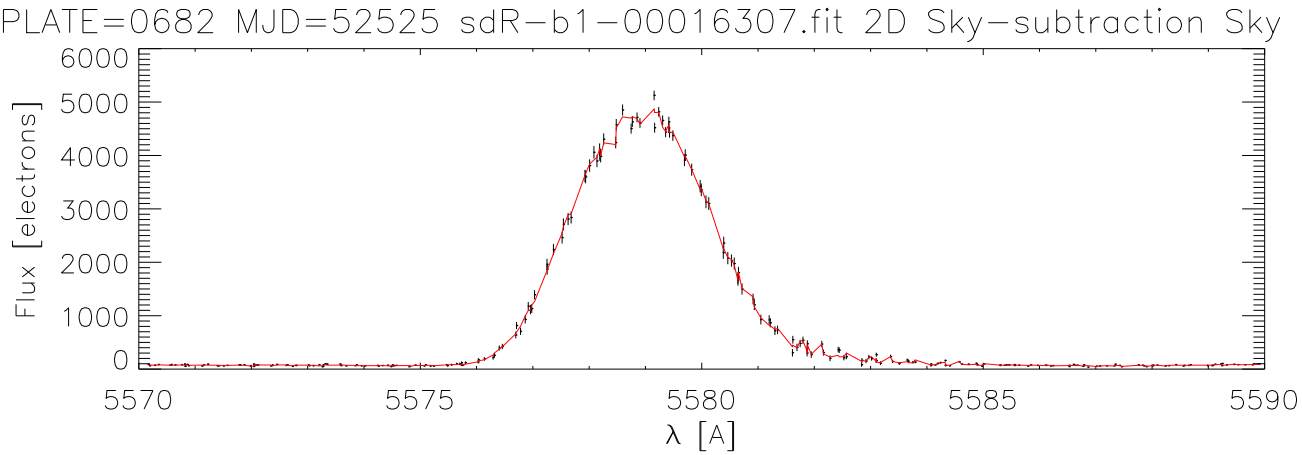

PLATE=0682 MJD=52525 sdR-b1-00016307.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.6
-0.4
-0.2
0.0
0.2
0.4
0.6
50
100
150
200
250
300
Fiber number

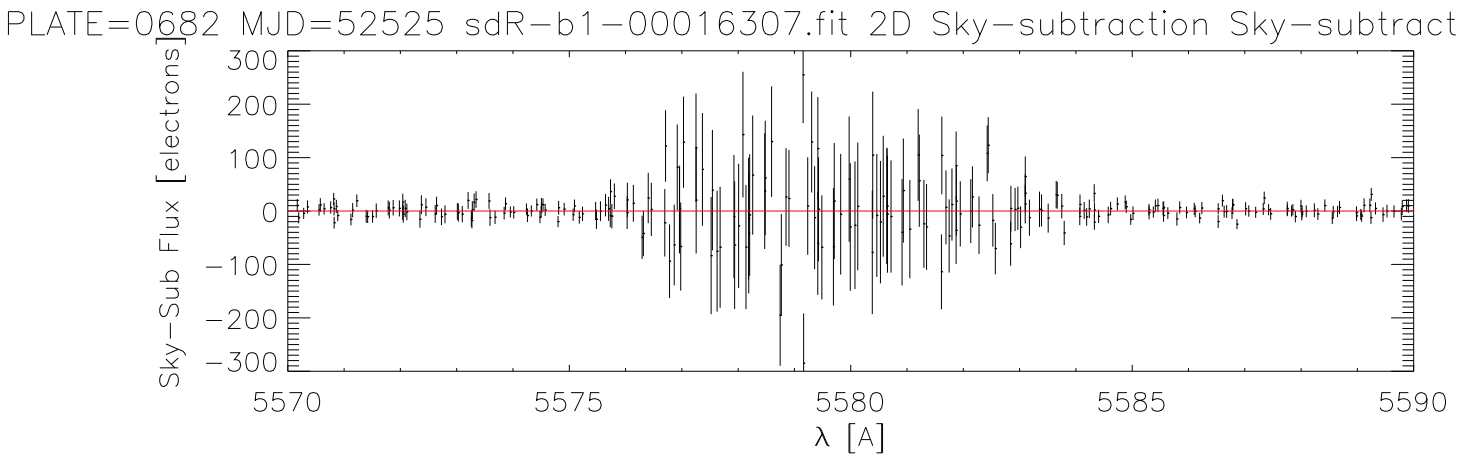

PLATE=0682 MJD=52525 sdR-b1-00016307.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

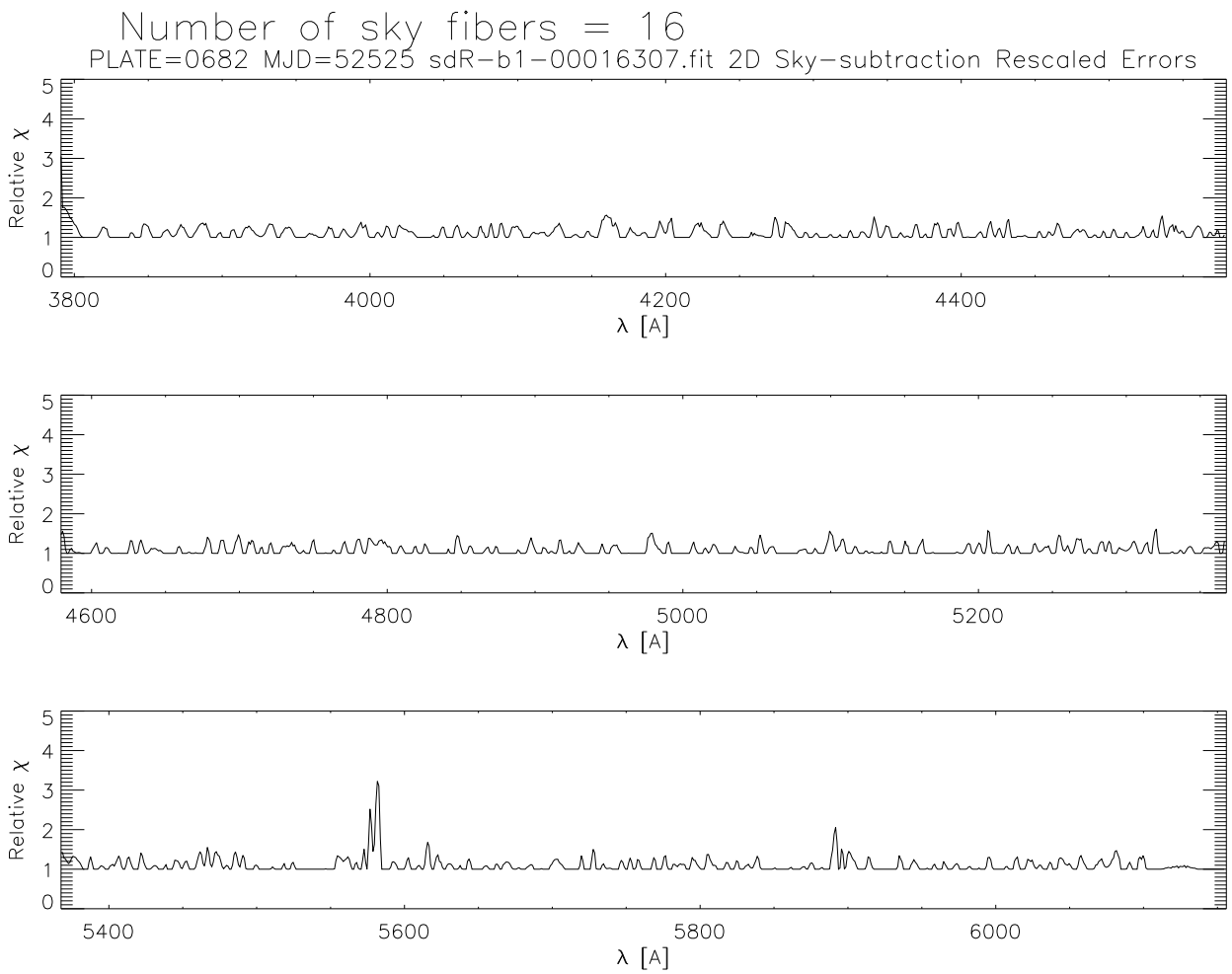

PLATE=0682 MJD=52525 sdR-b1-00016307.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

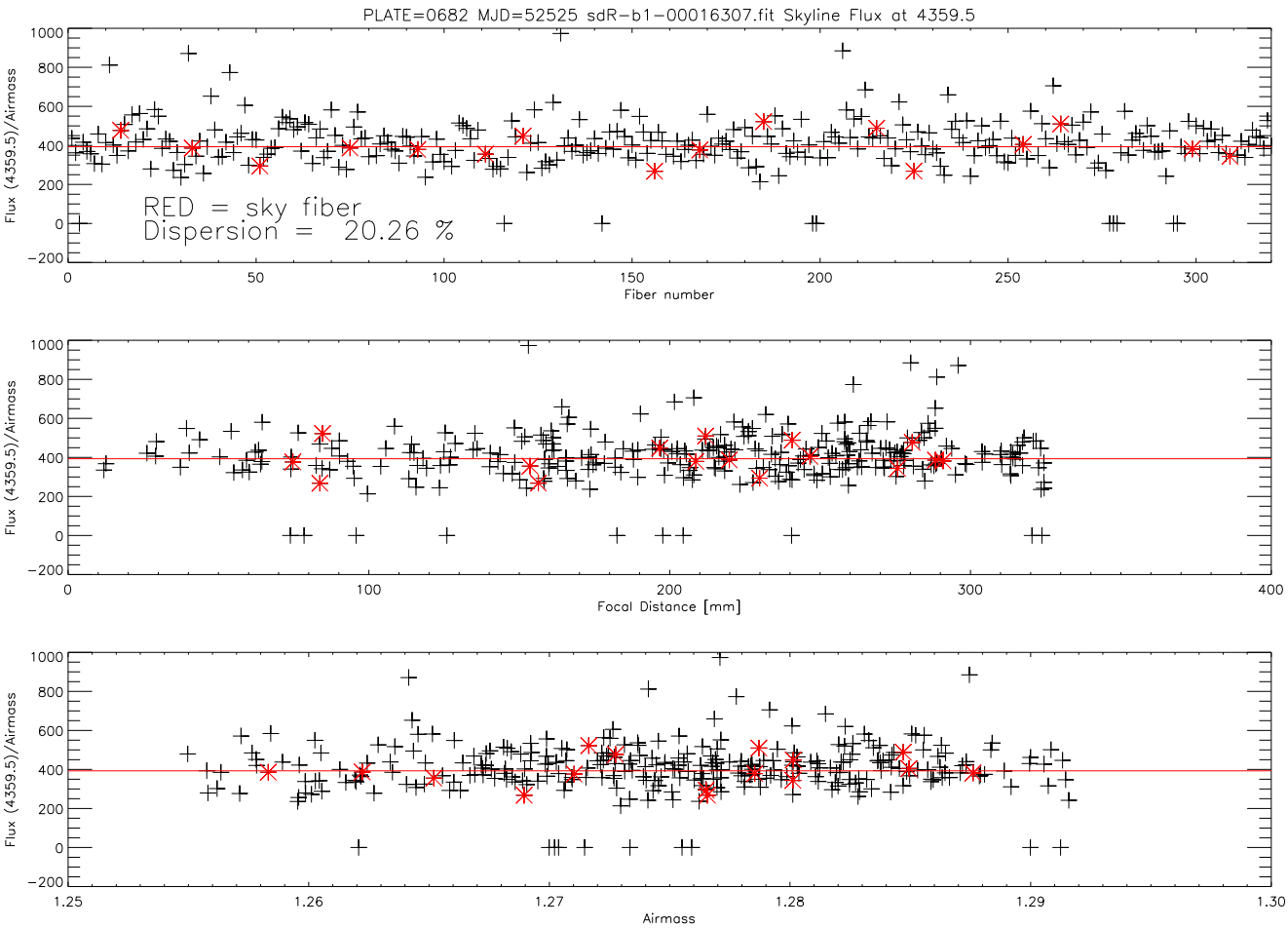

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b1-00016307.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

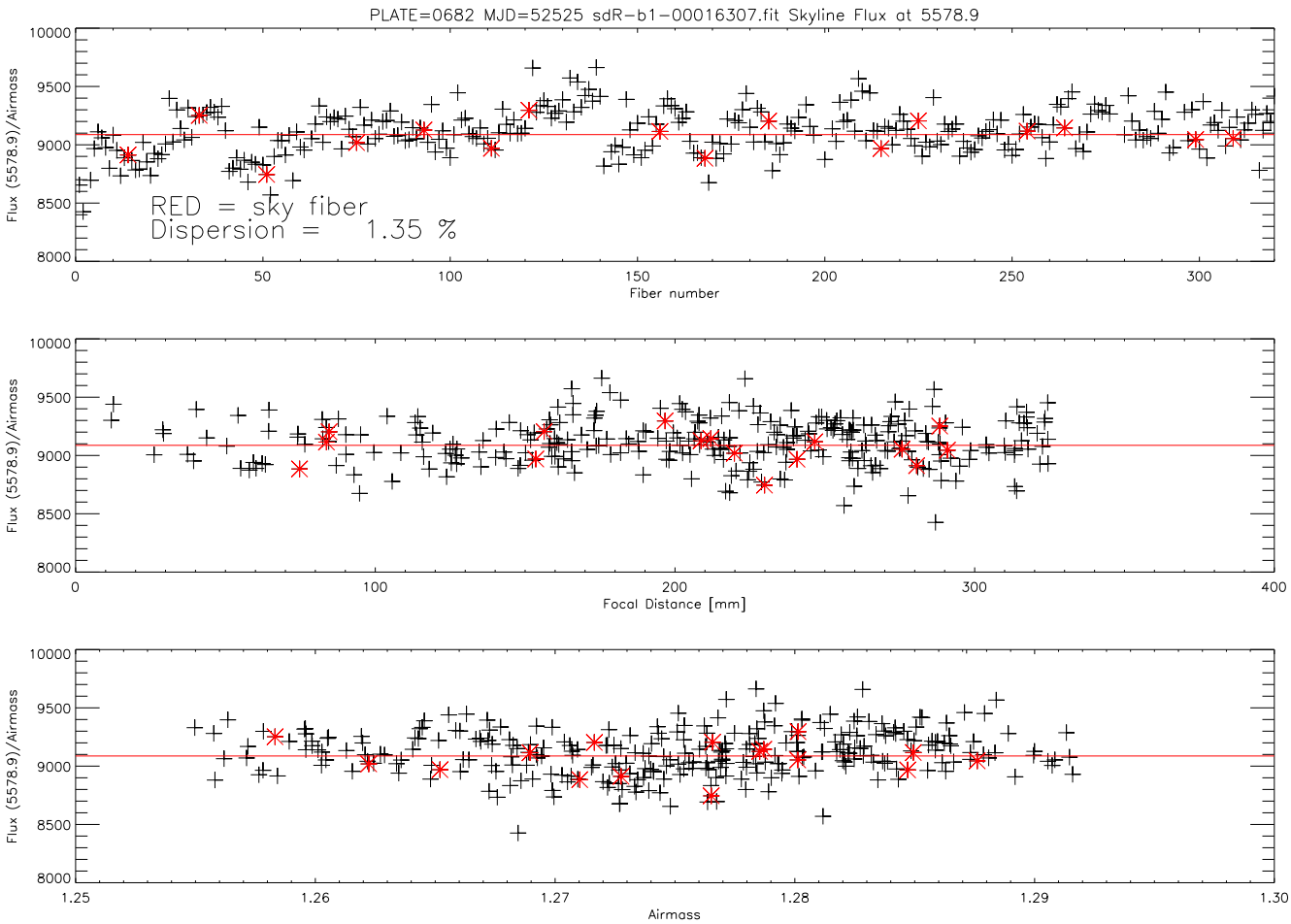

PLATE=0682 MJD=52525 sdR-b1-00016307.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.6
-0.4
-0.2
0.0
0.2
0.4
0.6
50
100
150
200
250
300
Fiber number

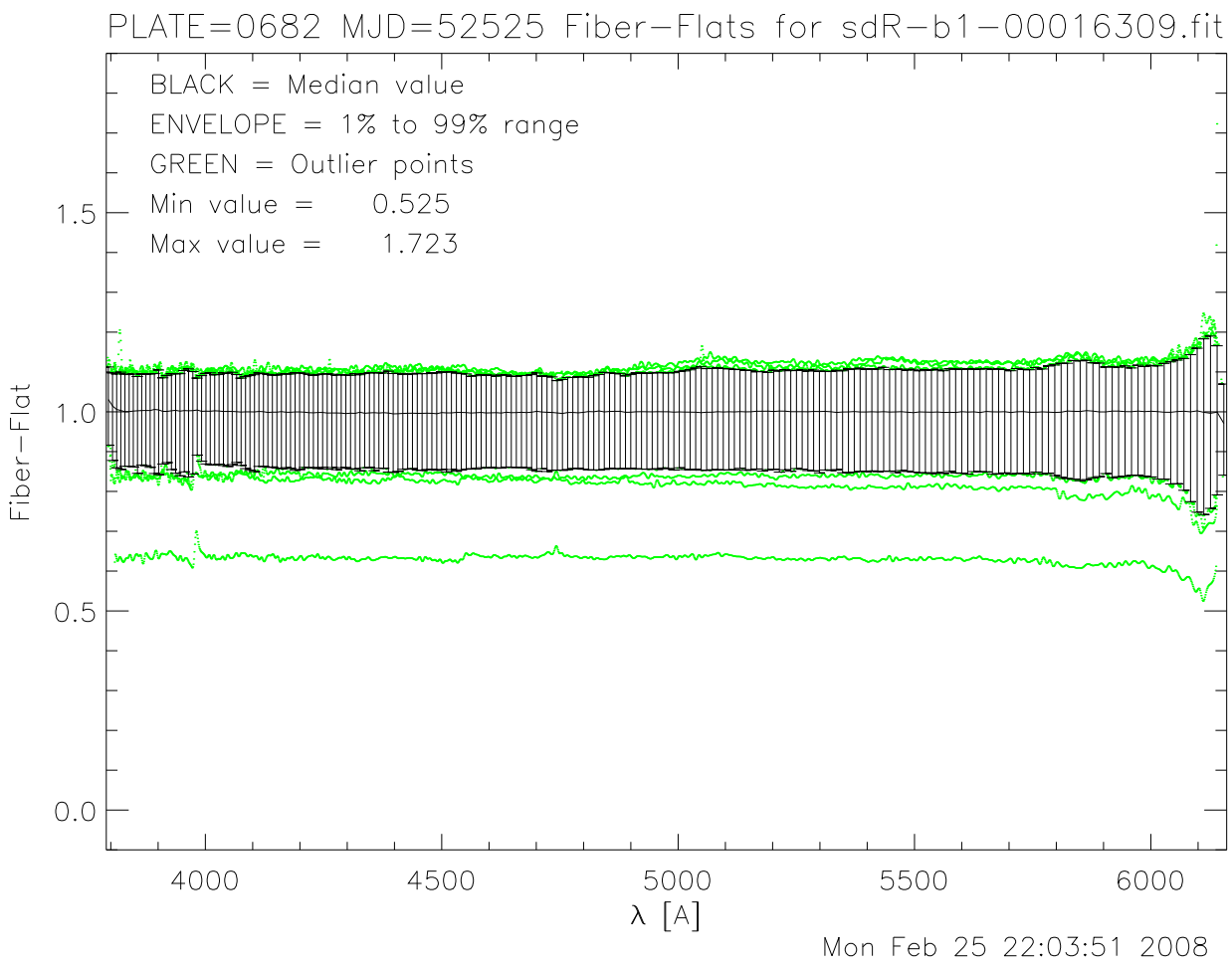

PLATE=0682 MJD=52525 sdR-b1-00016307.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=0682 MJD=52525 sdR-b1-00016307.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=0682 MJD=52525 sdR-b1-00016307.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=0682 MJD=52525 sdR-b1-00016307.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 20.26 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=0682 MJD=52525 sdR-b1-00016307.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.35 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass


PLATE=0682 MJD=52525 Fiber−Flats for sdR−b1−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.525
Max value = 1.723
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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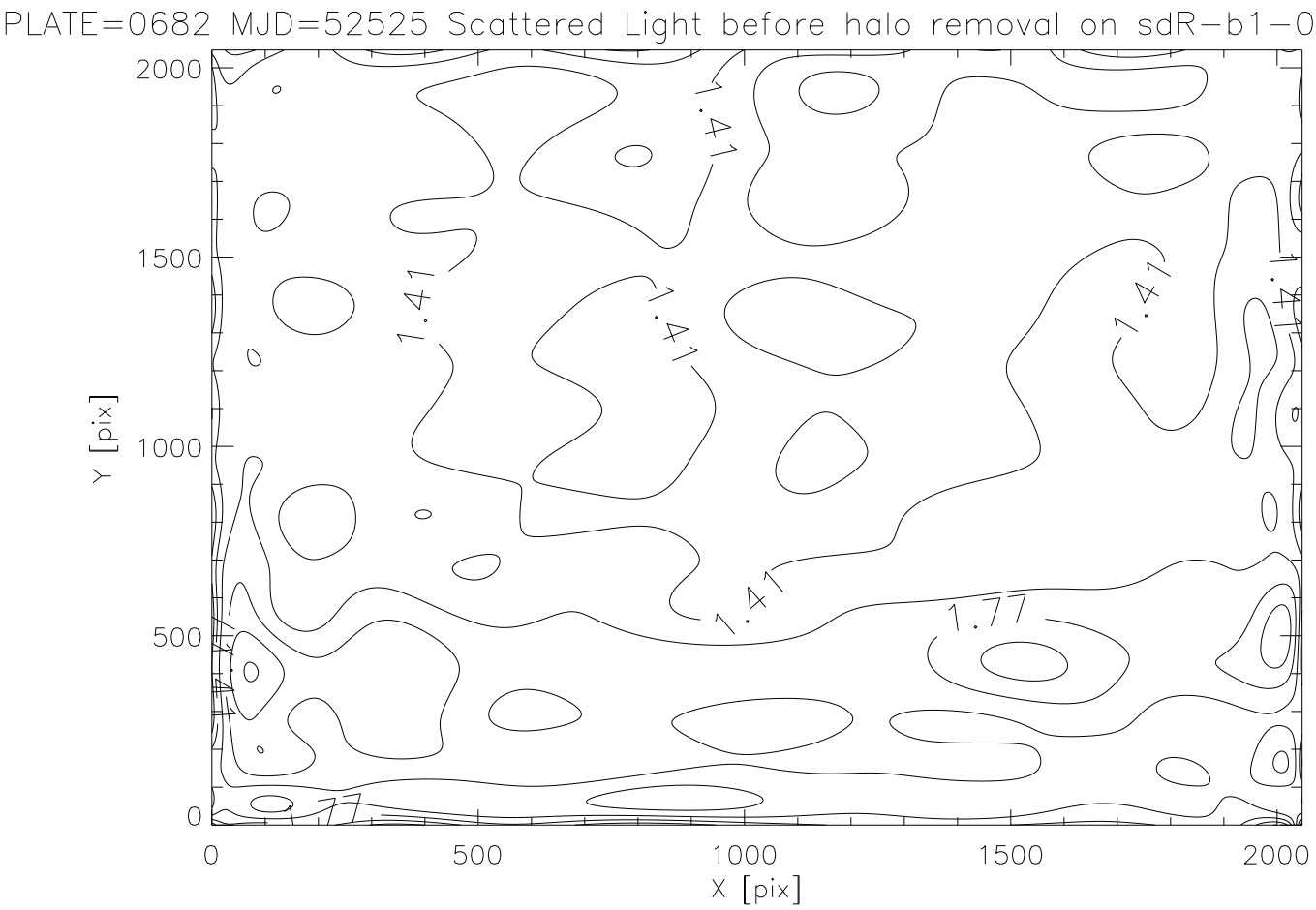
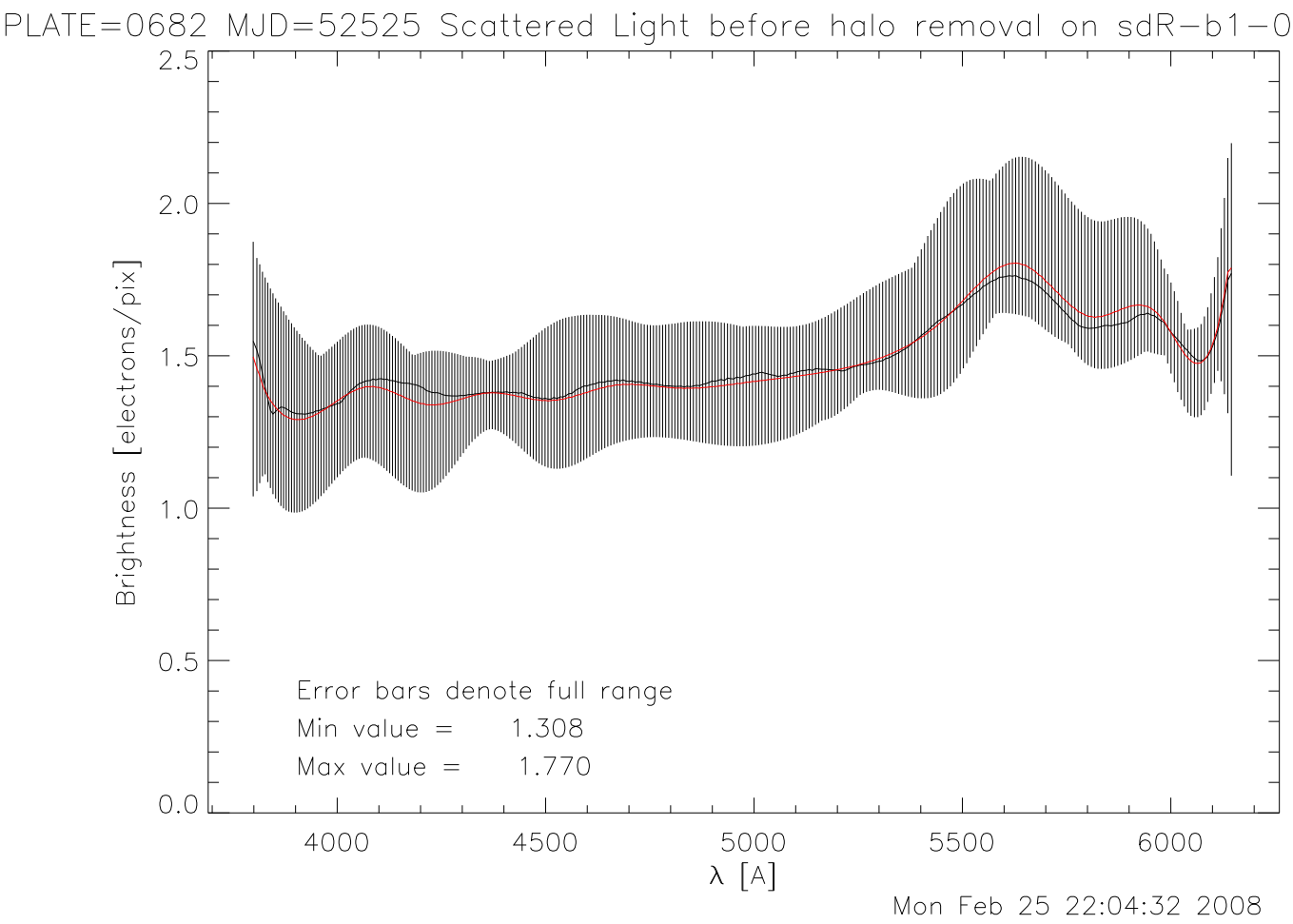
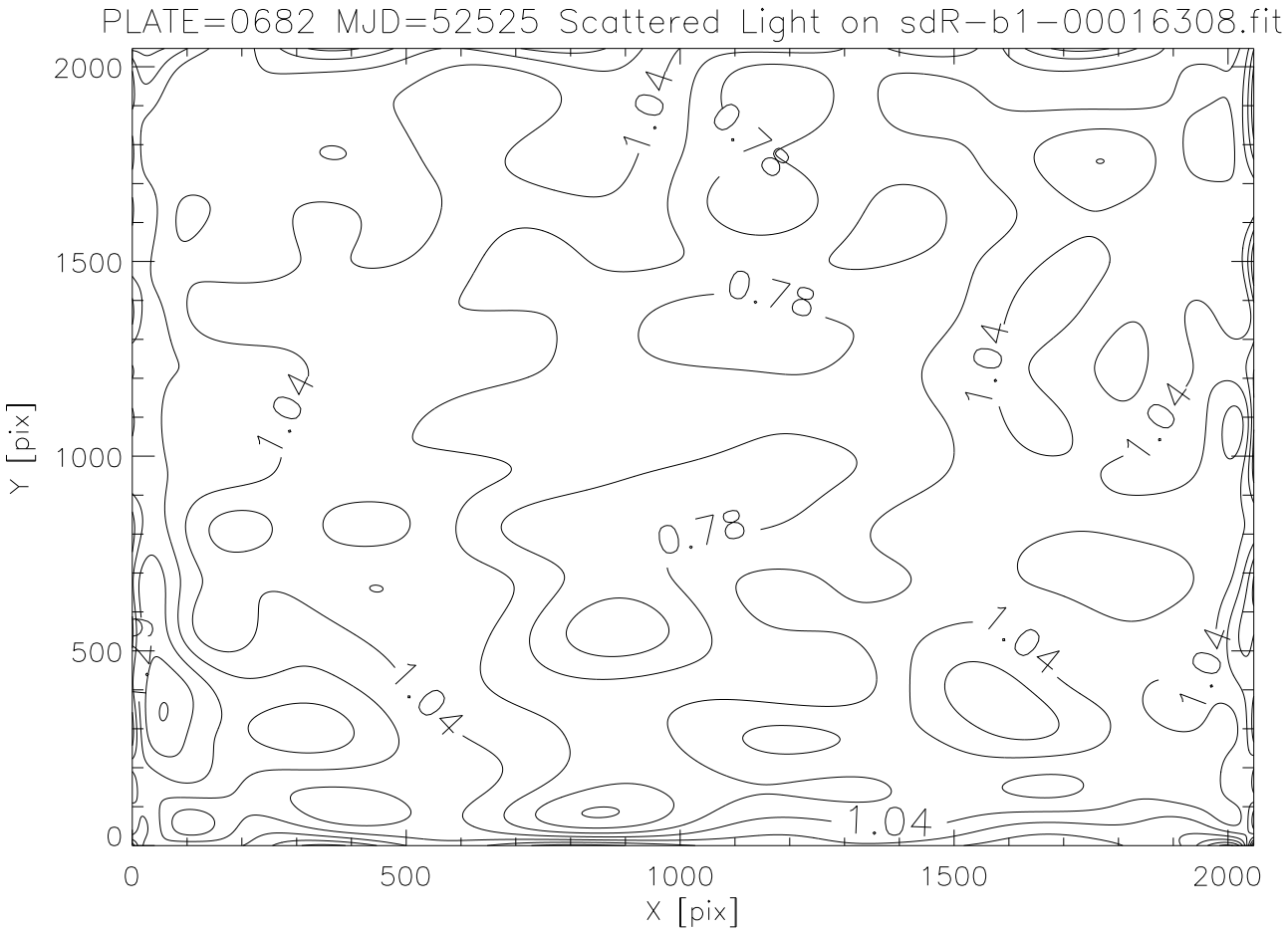
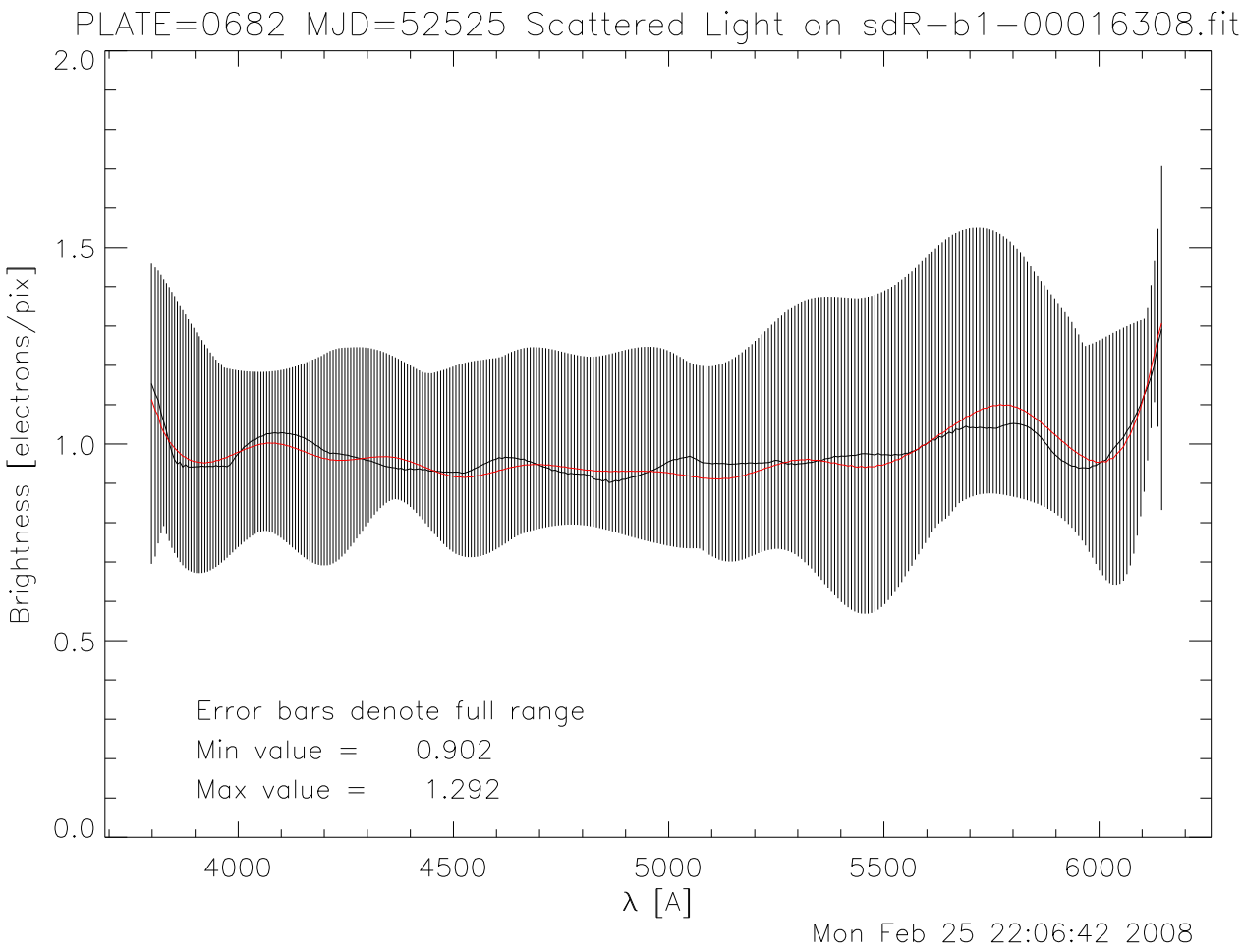
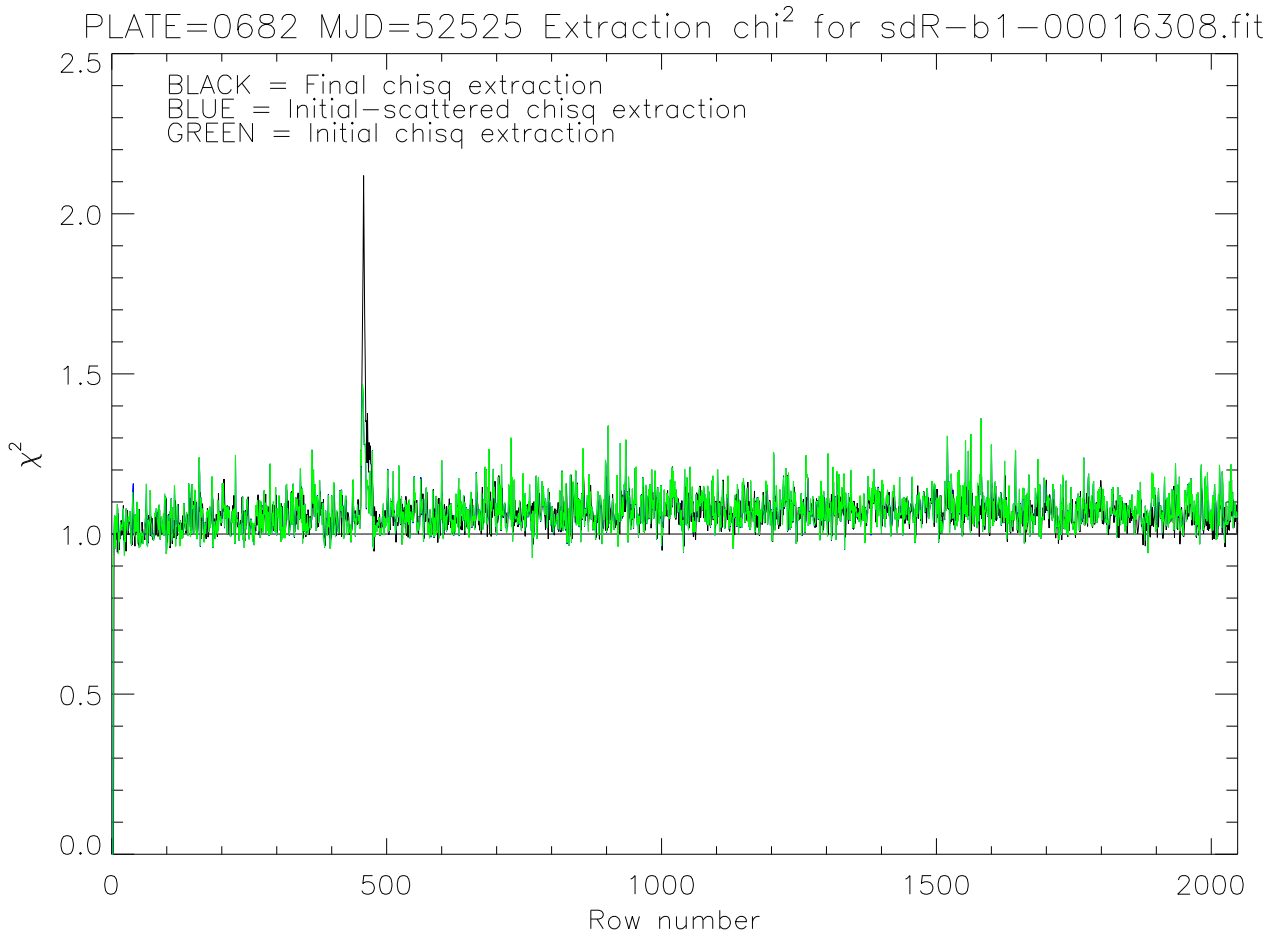
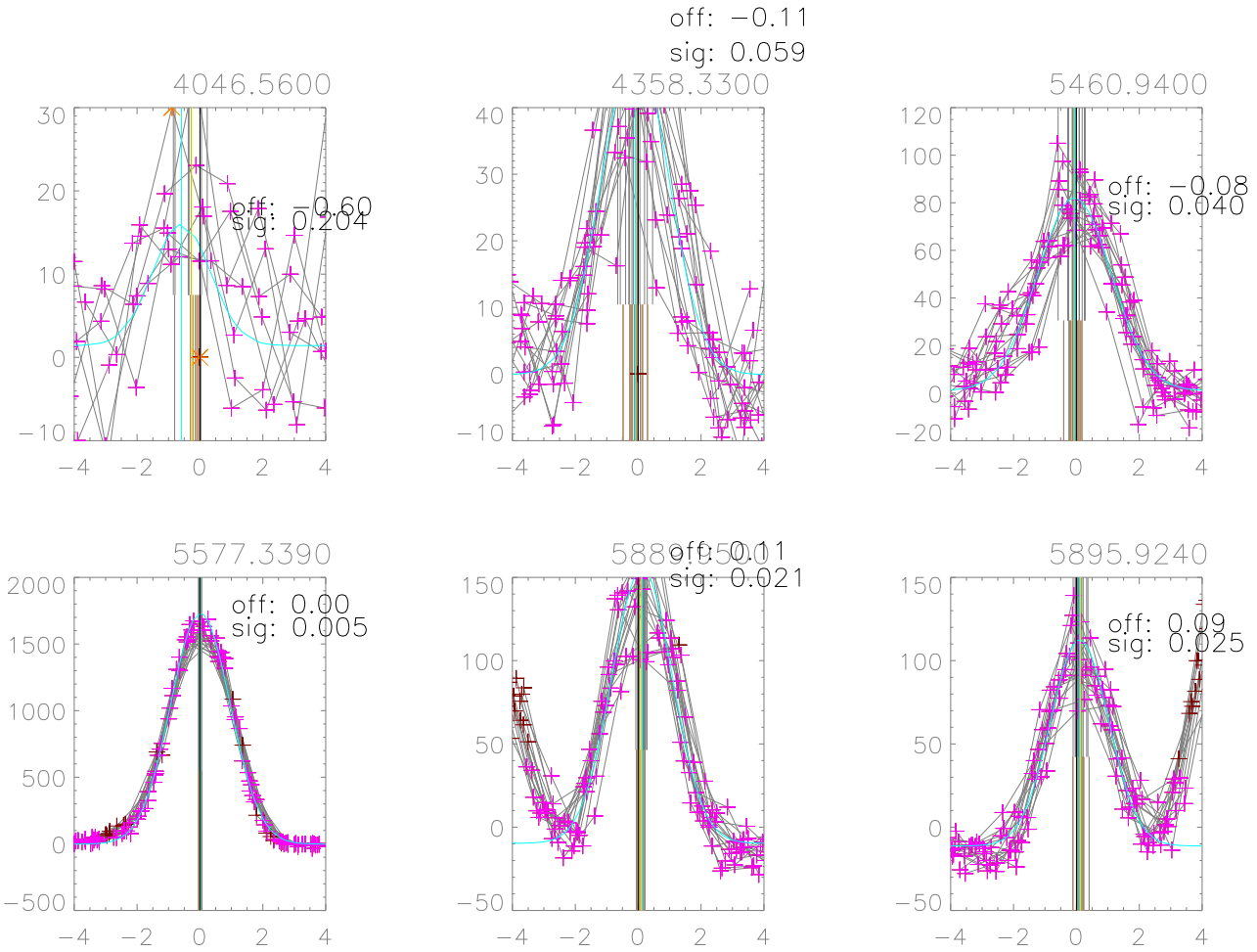

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR−b1−00016308.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.41
1.41
1.41
1.41
1.41
1.77
1.77

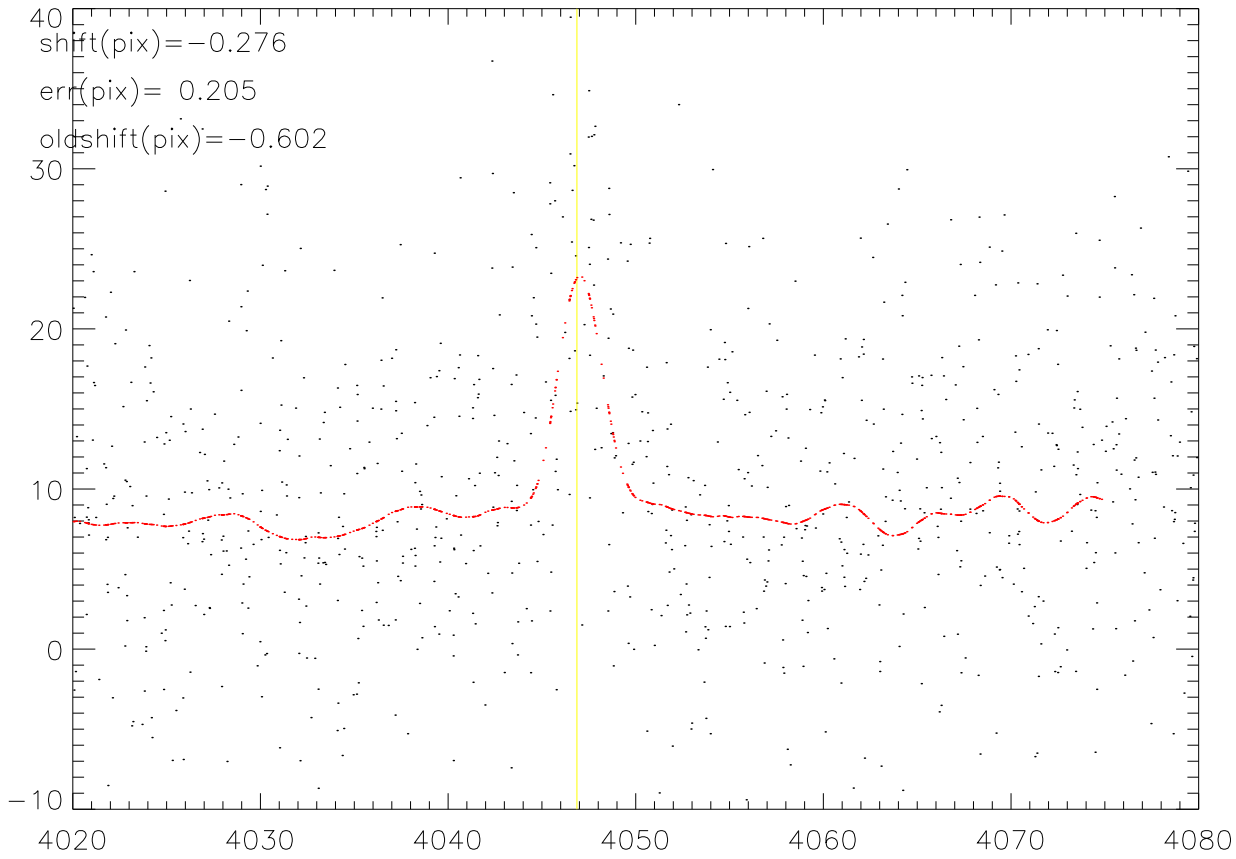

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b1-00016308.f
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.308
Max value = 1.770
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:04:32 2008

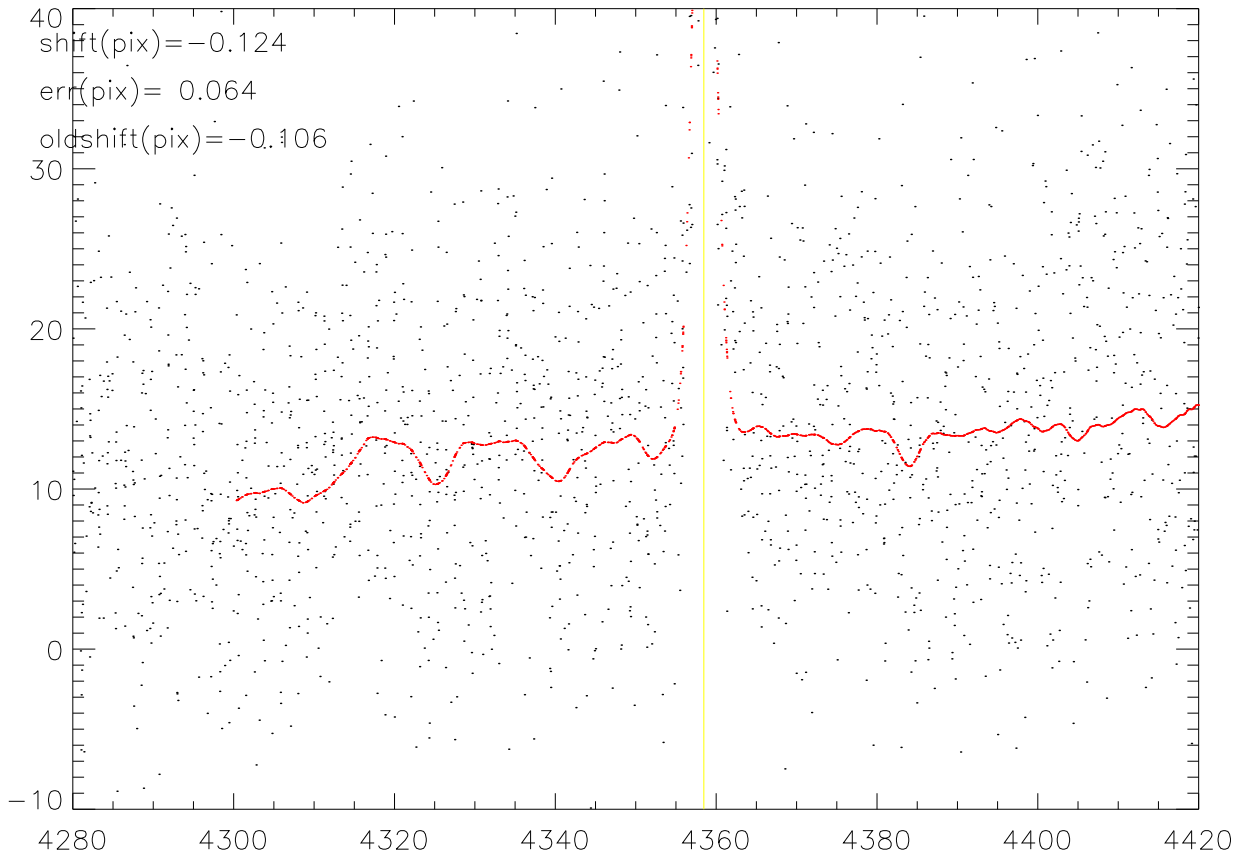

PLATE=0682 MJD=52525 Scattered Light on sdR-b1-00016308.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.04
0.78

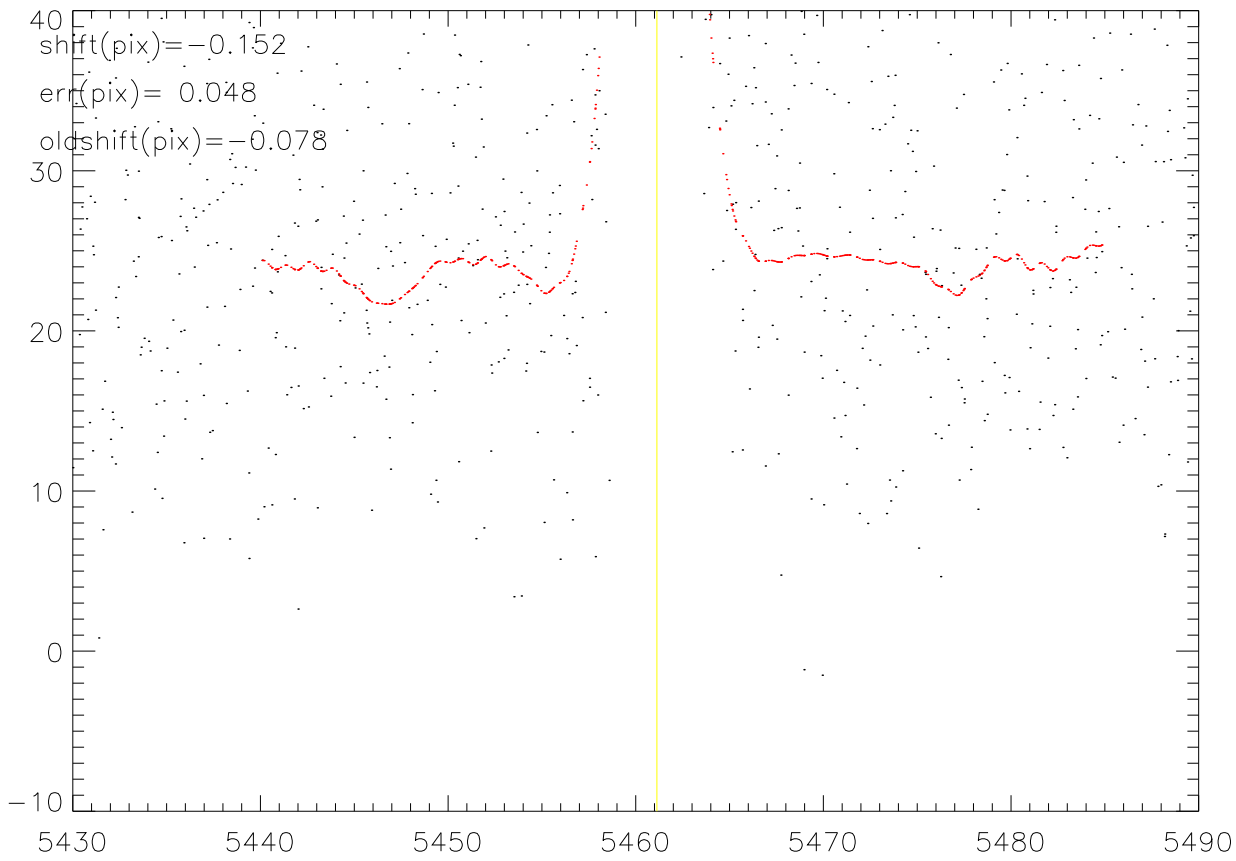

PLATE=0682 MJD=52525 Scattered Light on sdR-b1-00016308.fit
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.902
Max value = 1.292
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:06:42 2008

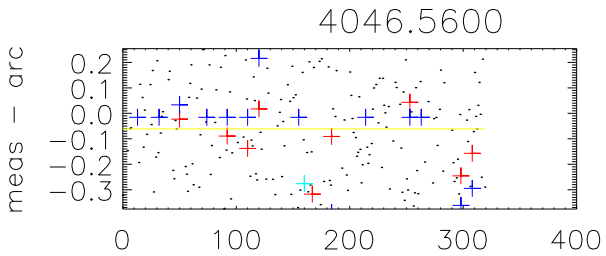

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR-b1-00016308.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

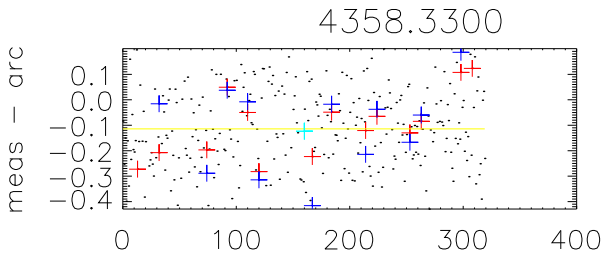

4046.5600
off: −0.60
sig: 0.204
4358.3300
off: −0.11
sig: 0.059
5460.9400
off: −0.08
sig: 0.040
5577.3390
off: 0.00
sig: 0.005
5889.9500
off: 0.11
sig: 0.021
5895.9240
off: 0.09
sig: 0.025

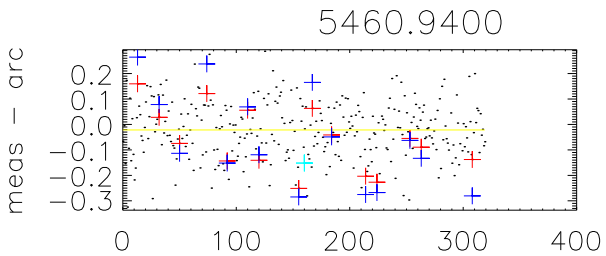

shift(pix)=−0.276
err(pix)= 0.205
oldshift(pix)=−0.602
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

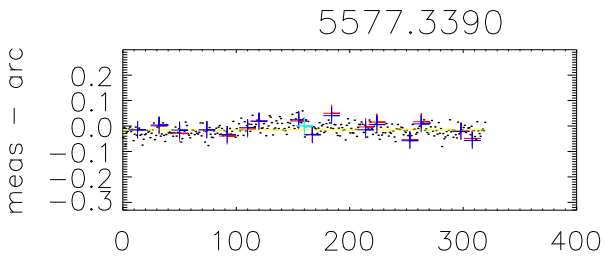

shift(pix)=−0.124
err(pix)= 0.064
oldshift(pix)=−0.106
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

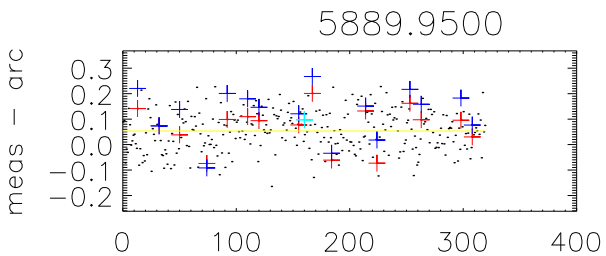

shift(pix)=−0.152
err(pix)= 0.048
oldshift(pix)=−0.078
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

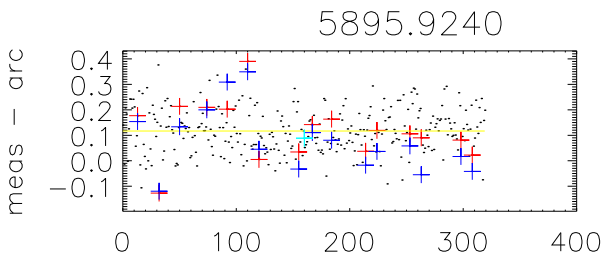

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

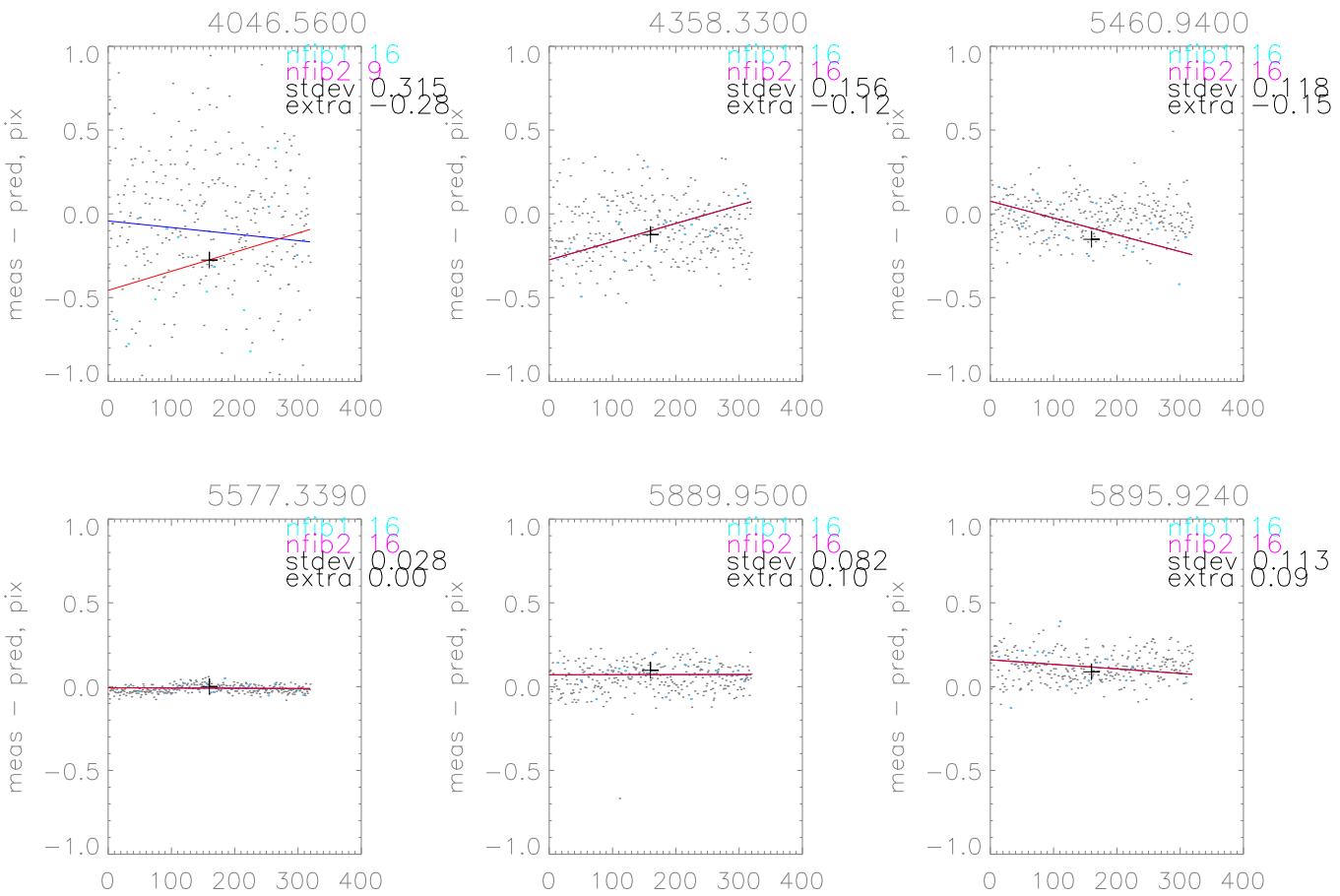

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

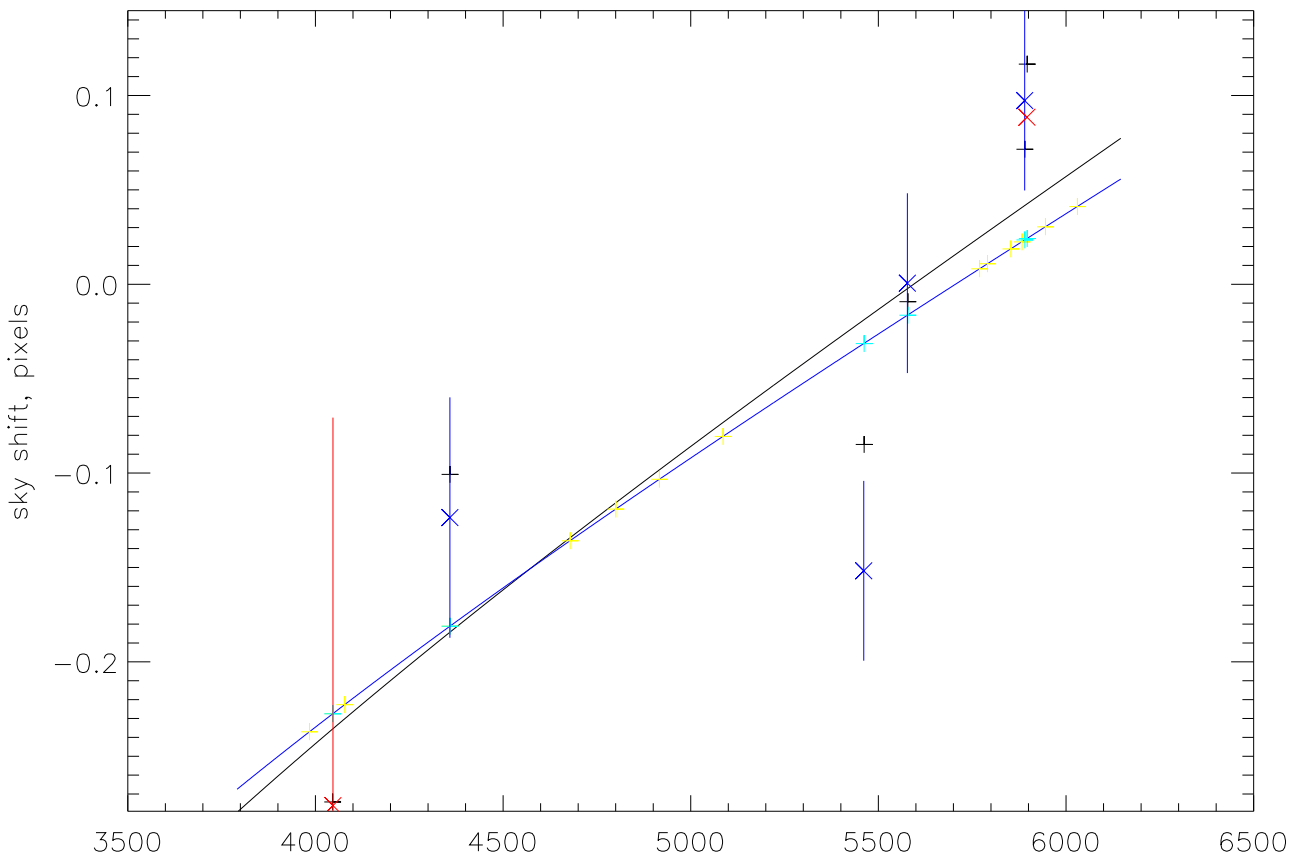

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

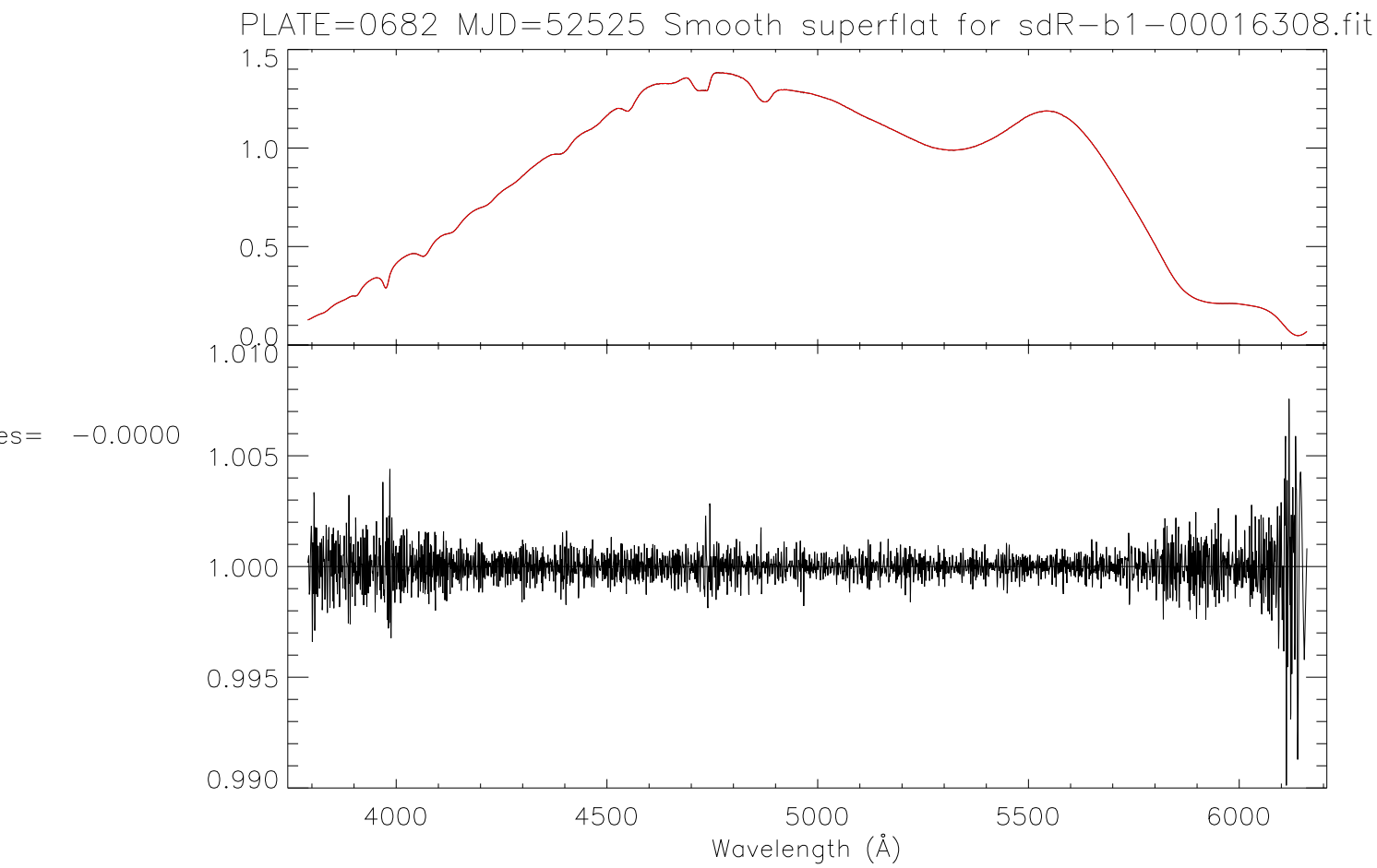

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

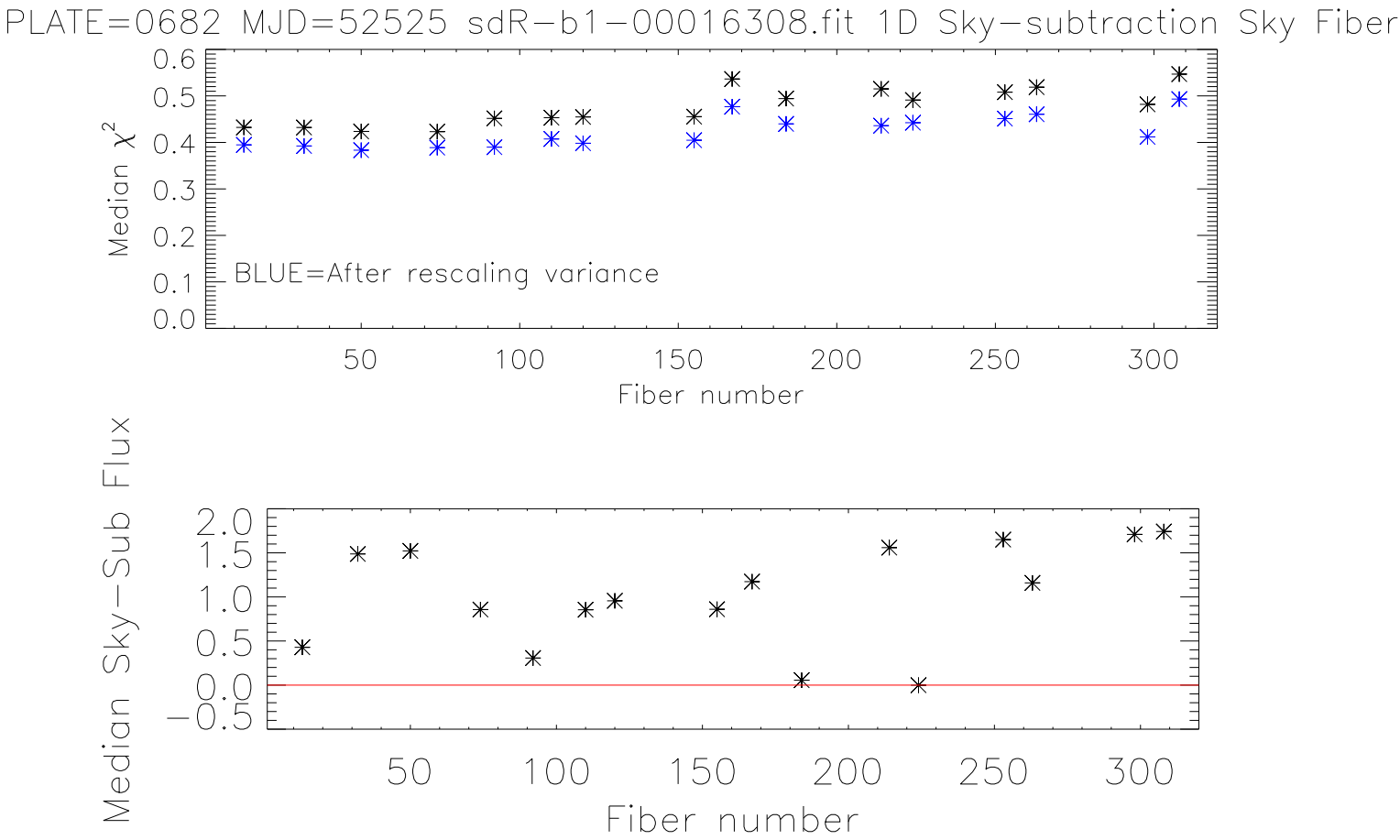

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

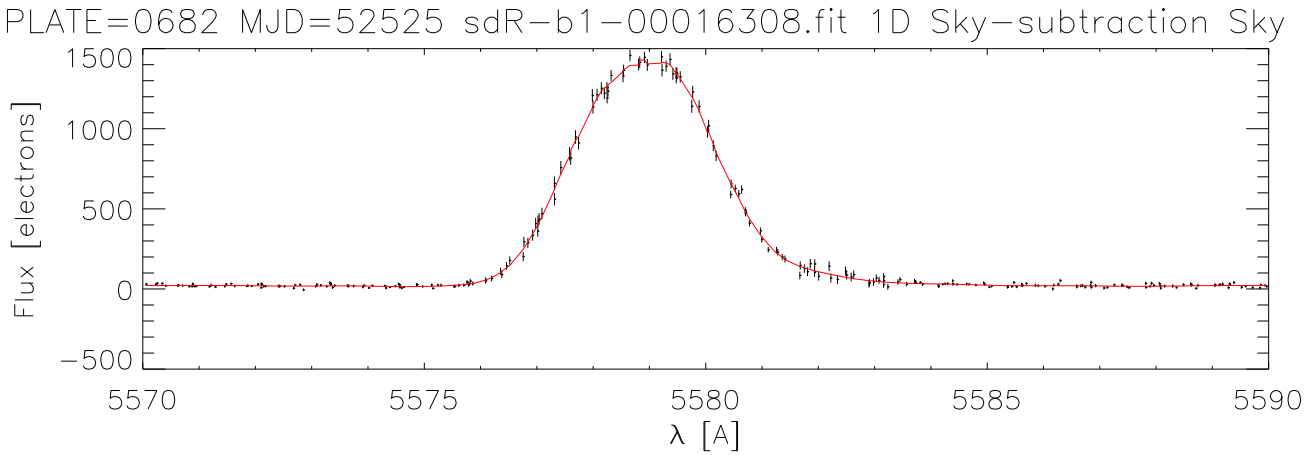

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

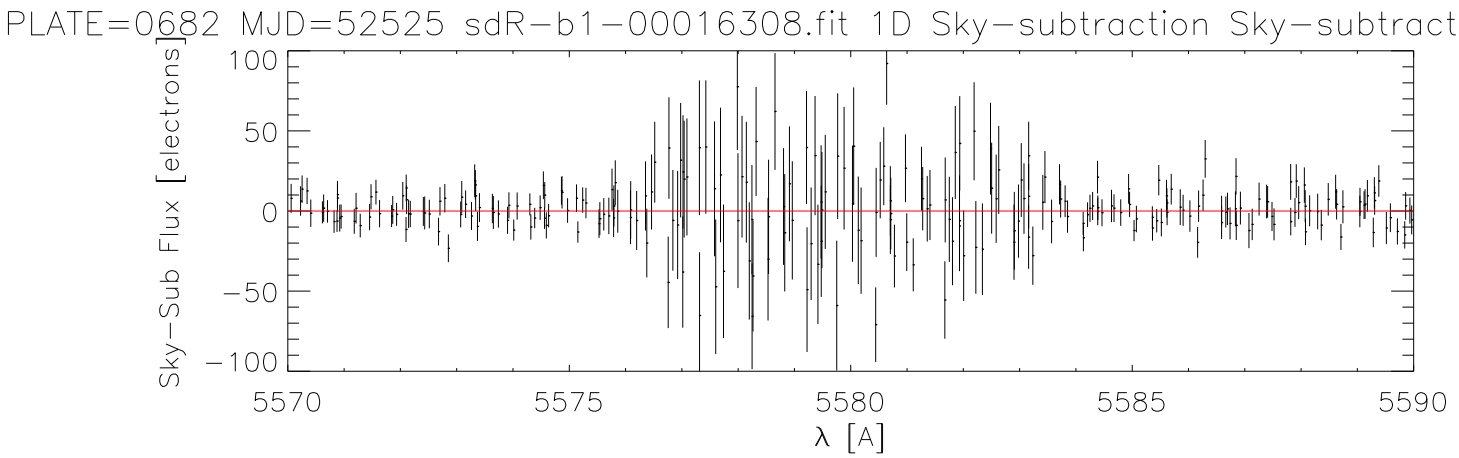

4046.5600
nfib1 16
nfib2 9
stdev 0.315
extra −0.28
4358.3300
nfib1 16
nfib2 16
stdev 0.156
extra −0.12
5460.9400
nfib1 16
nfib2 16
stdev 0.118
extra −0.15
5577.3390
nfib1 16
nfib2 16
stdev 0.028
extra 0.00
5889.9500
nfib1 16
nfib2 16
stdev 0.082
extra 0.10
5895.9240
nfib1 16
nfib2 16
stdev 0.113
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

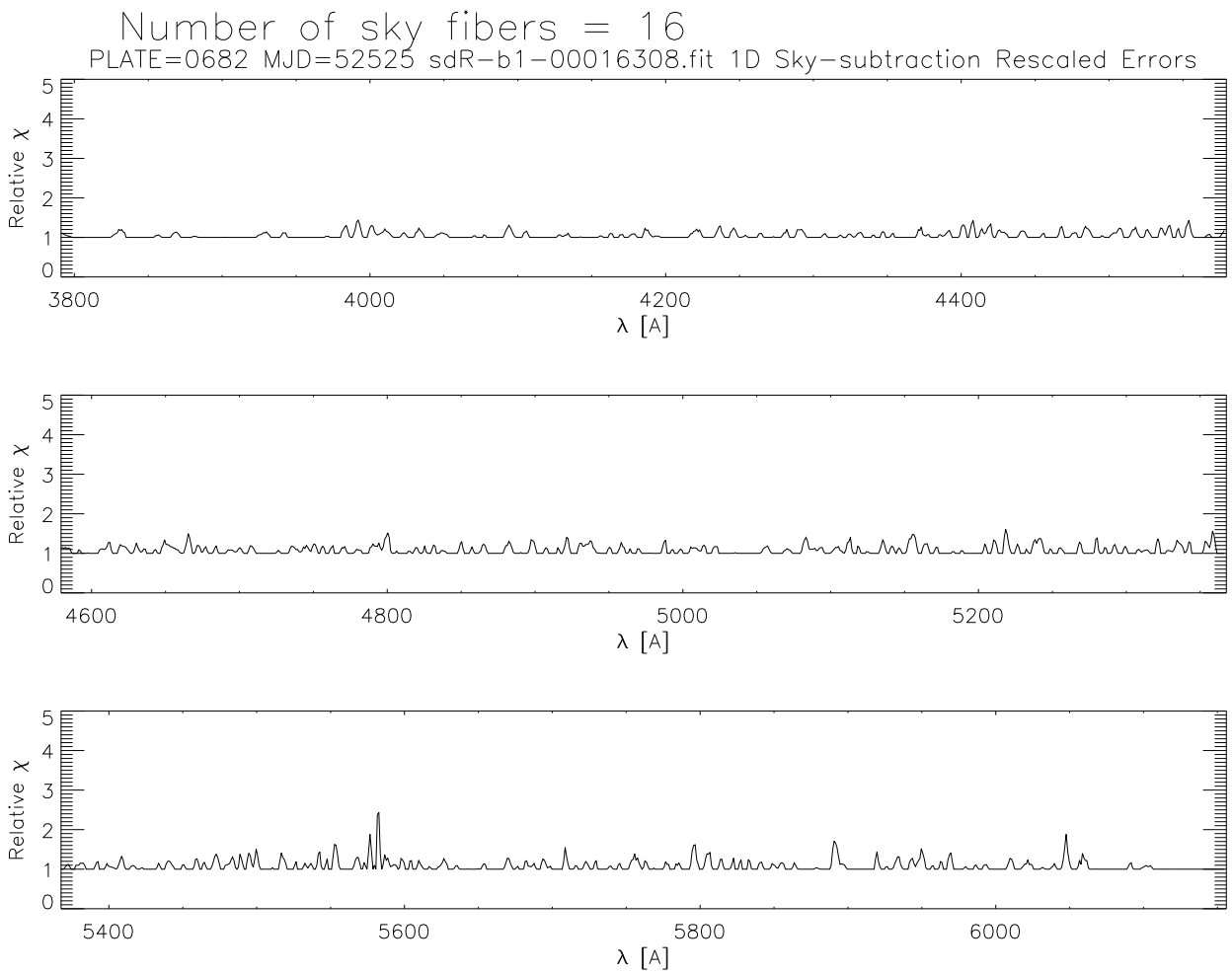

sky shift, pixels
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

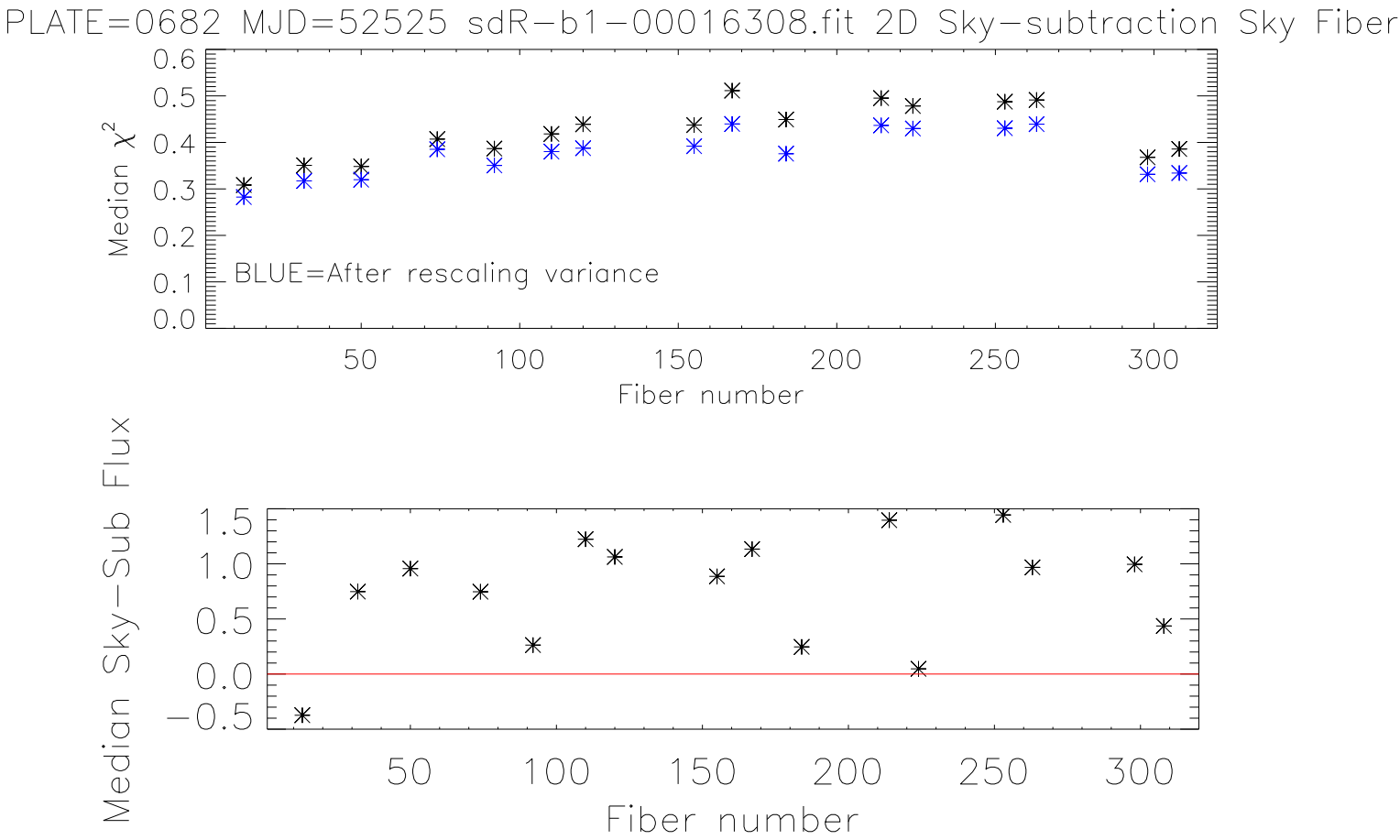

PLATE=0682 MJD=52525 Smooth superflat for sdR-b1-00016308.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

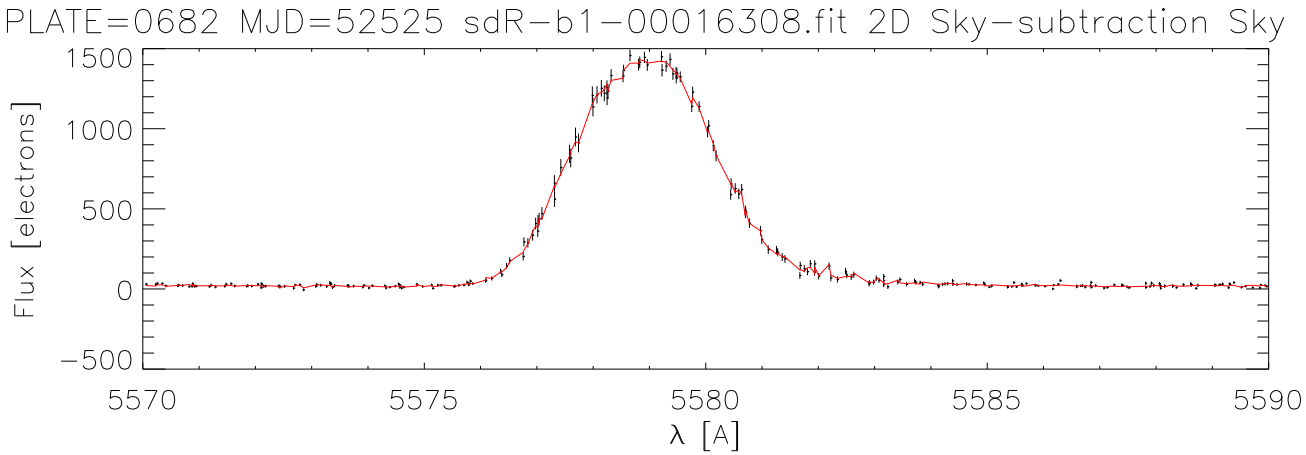

PLATE=0682 MJD=52525 sdR-b1-00016308.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

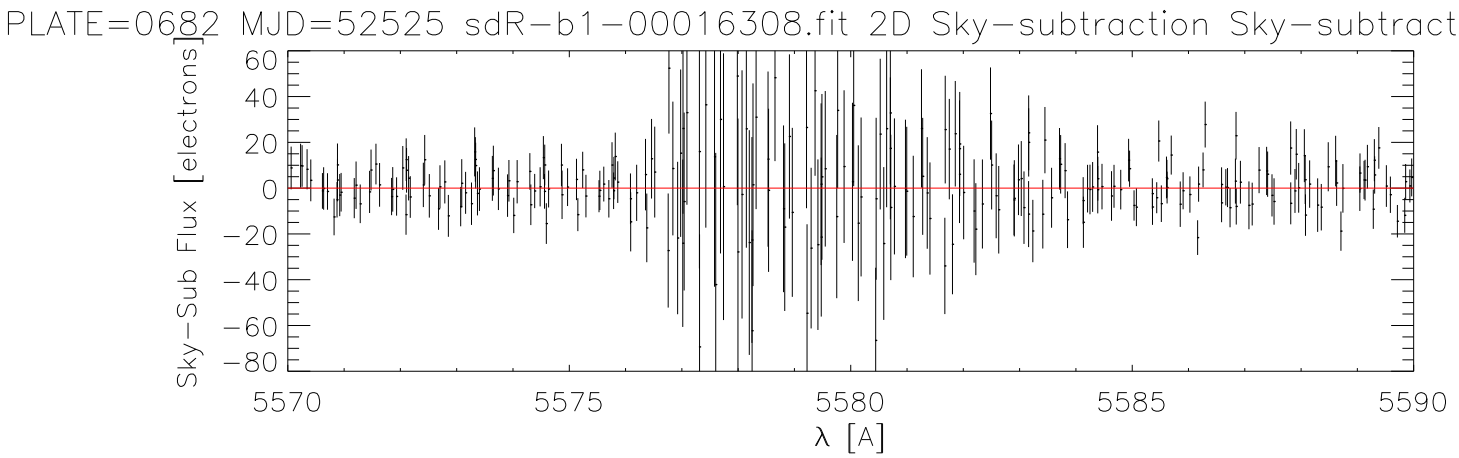

PLATE=0682 MJD=52525 sdR-b1-00016308.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

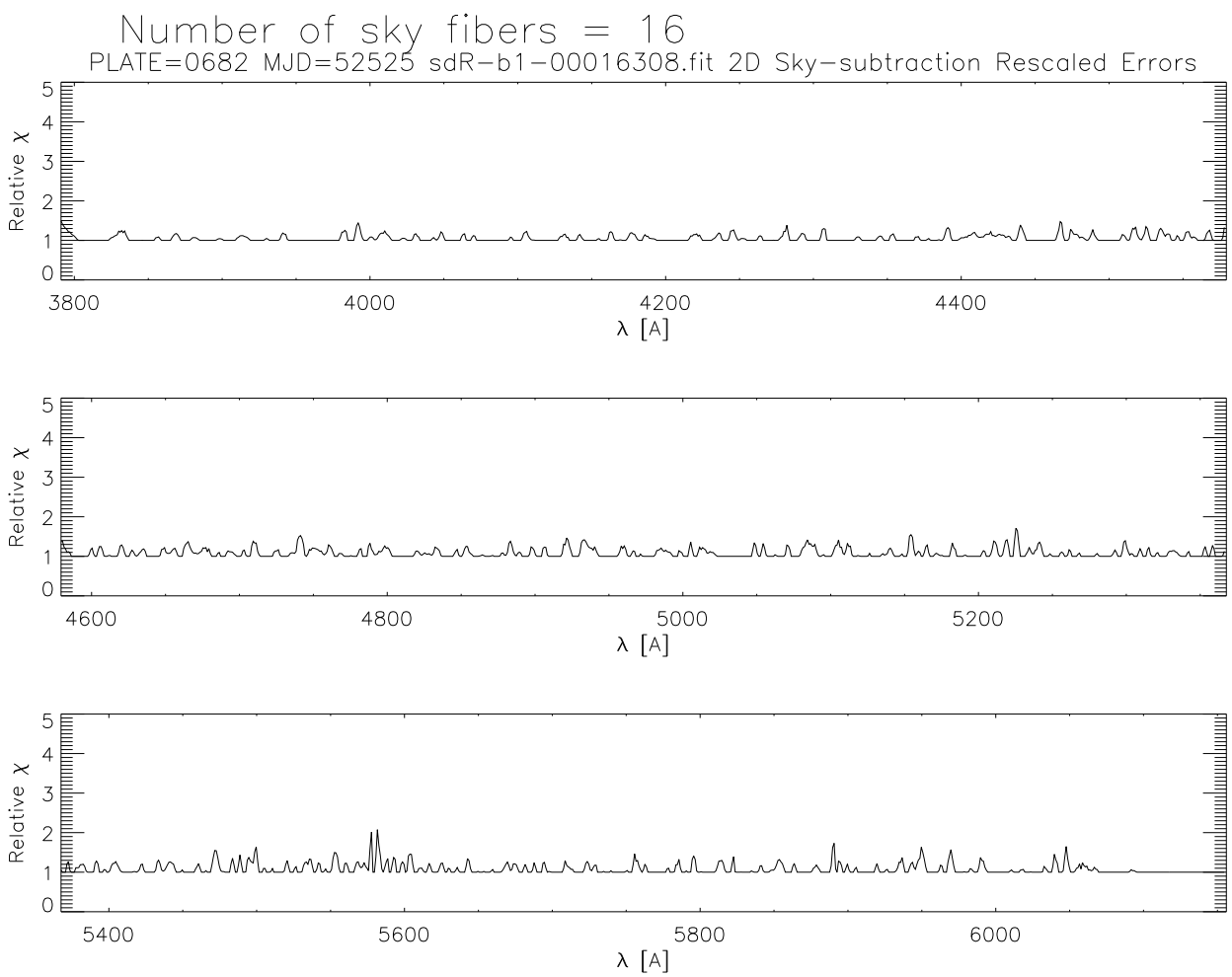

PLATE=0682 MJD=52525 sdR-b1-00016308.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

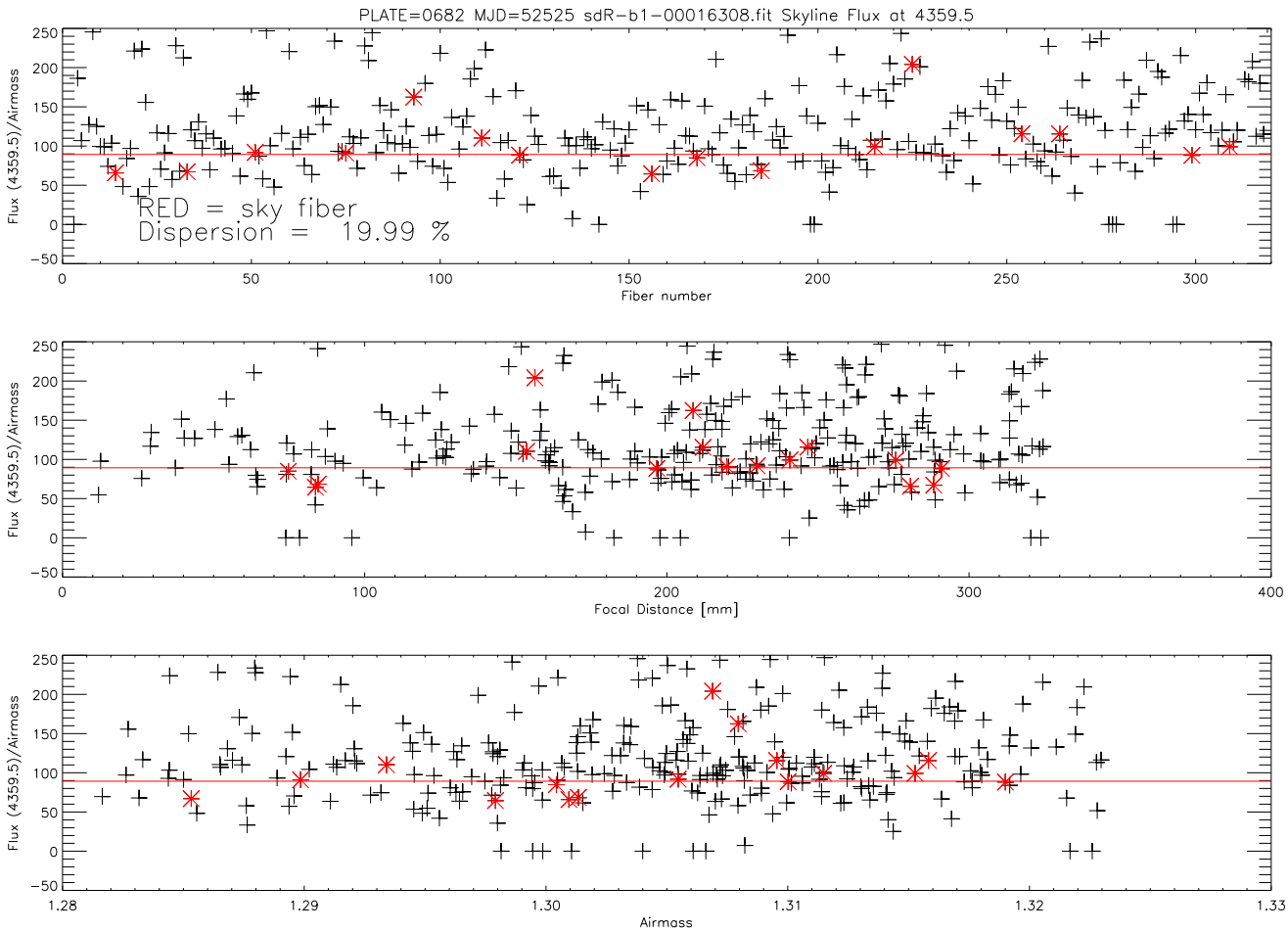

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b1-00016308.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

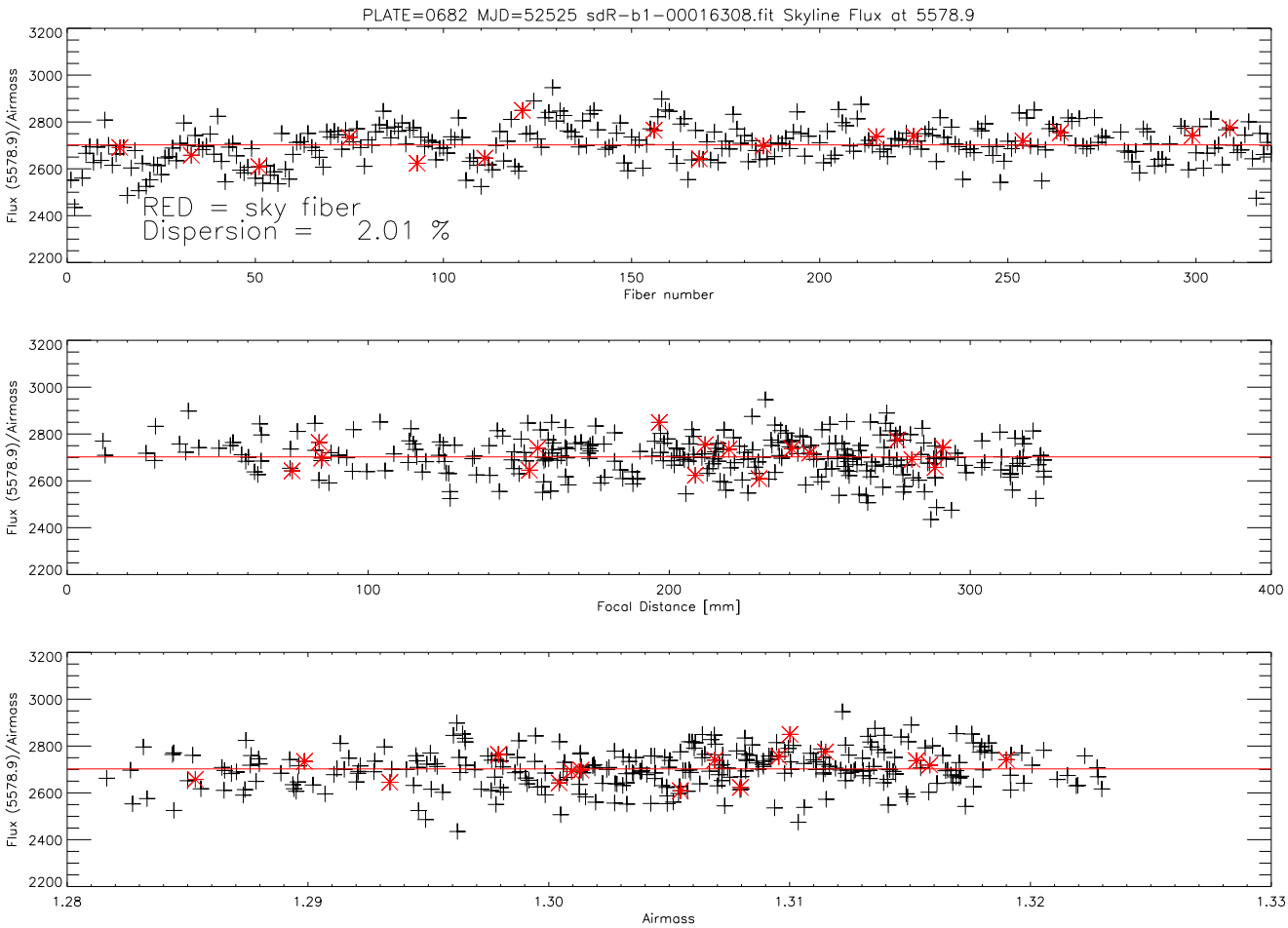

PLATE=0682 MJD=52525 sdR-b1-00016308.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

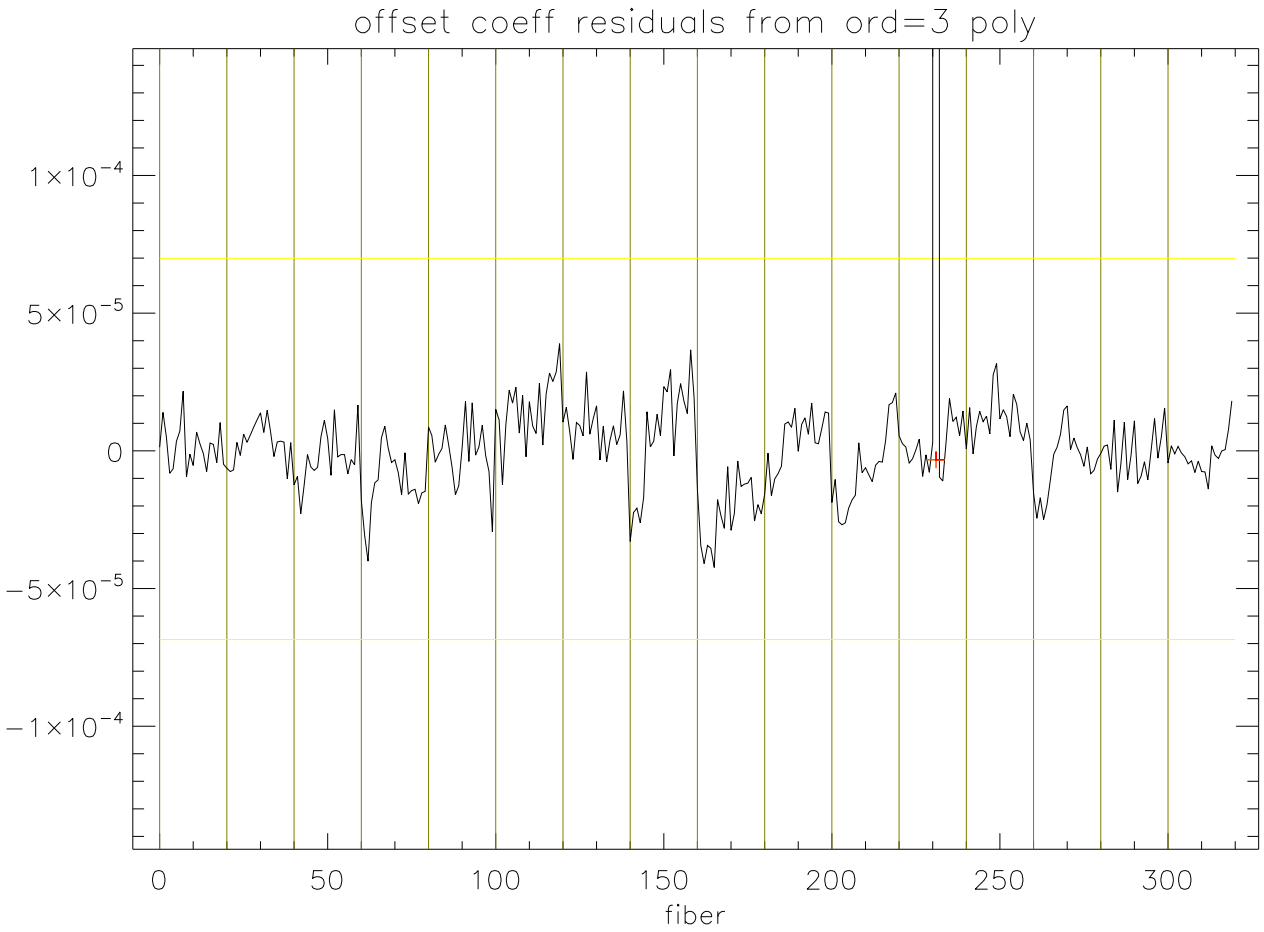

PLATE=0682 MJD=52525 sdR-b1-00016308.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

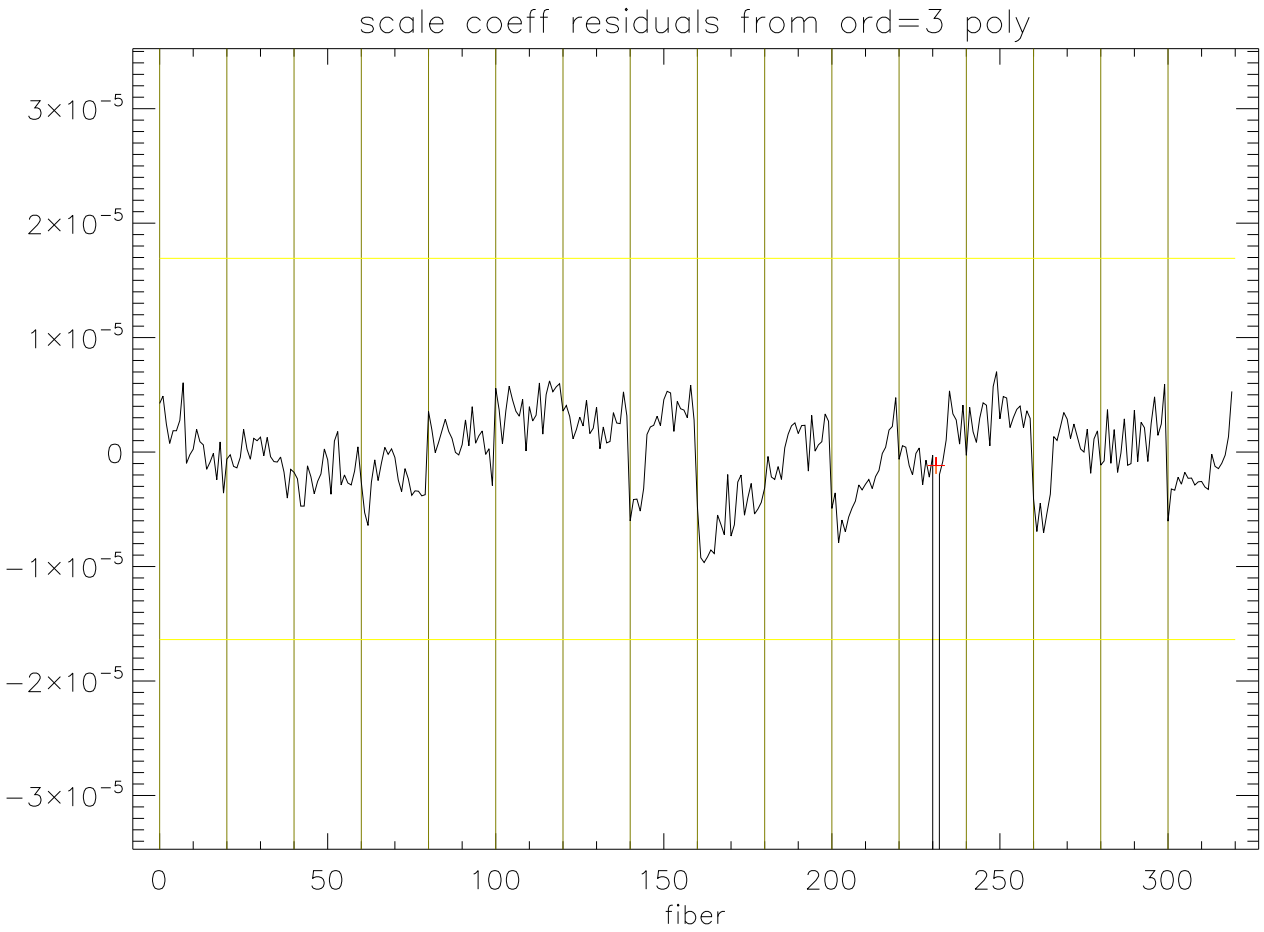

PLATE=0682 MJD=52525 sdR-b1-00016308.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
-60
-80
5570
5575
5580
5585
5590
λ [A]

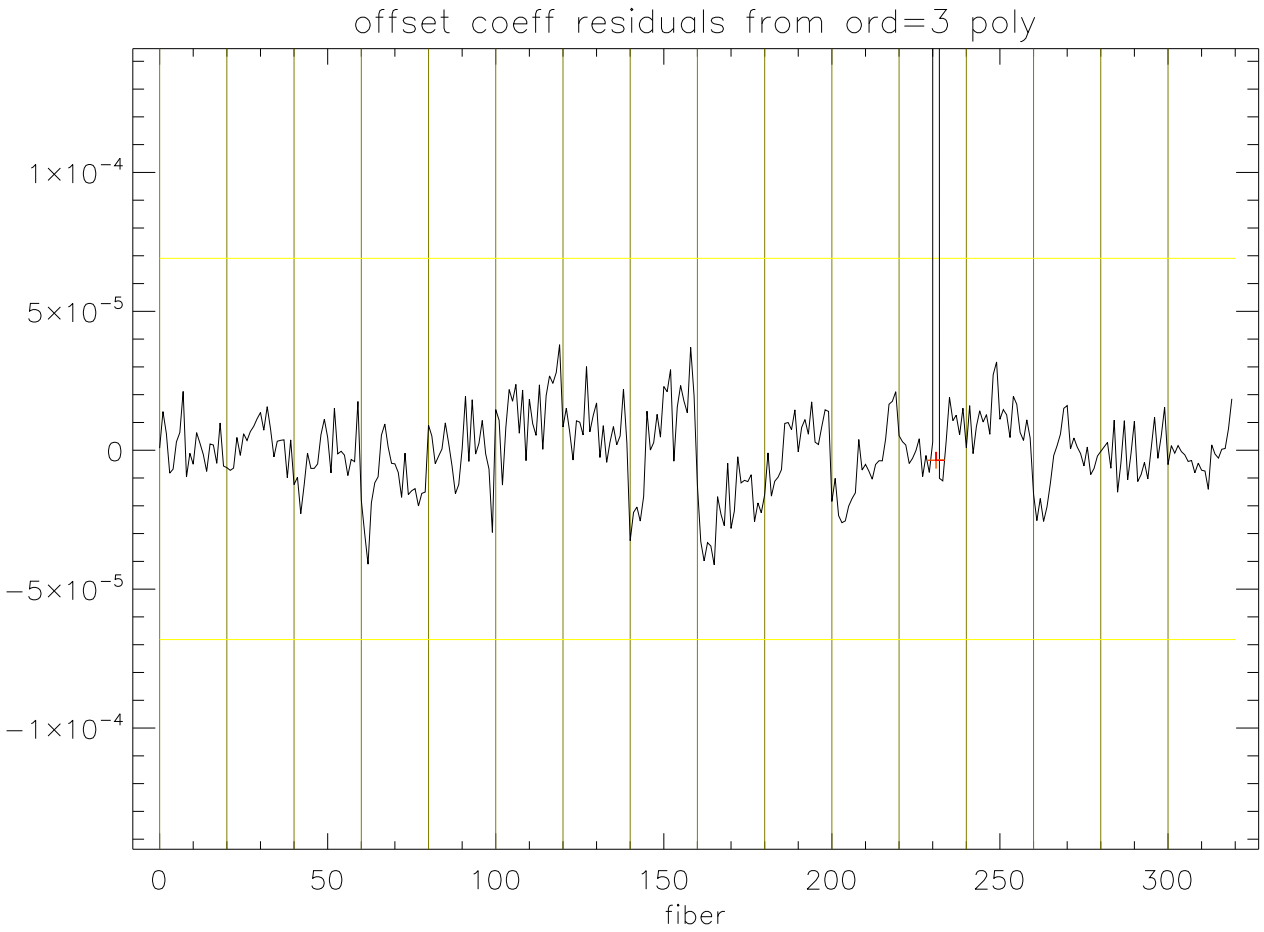

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b1-00016308.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

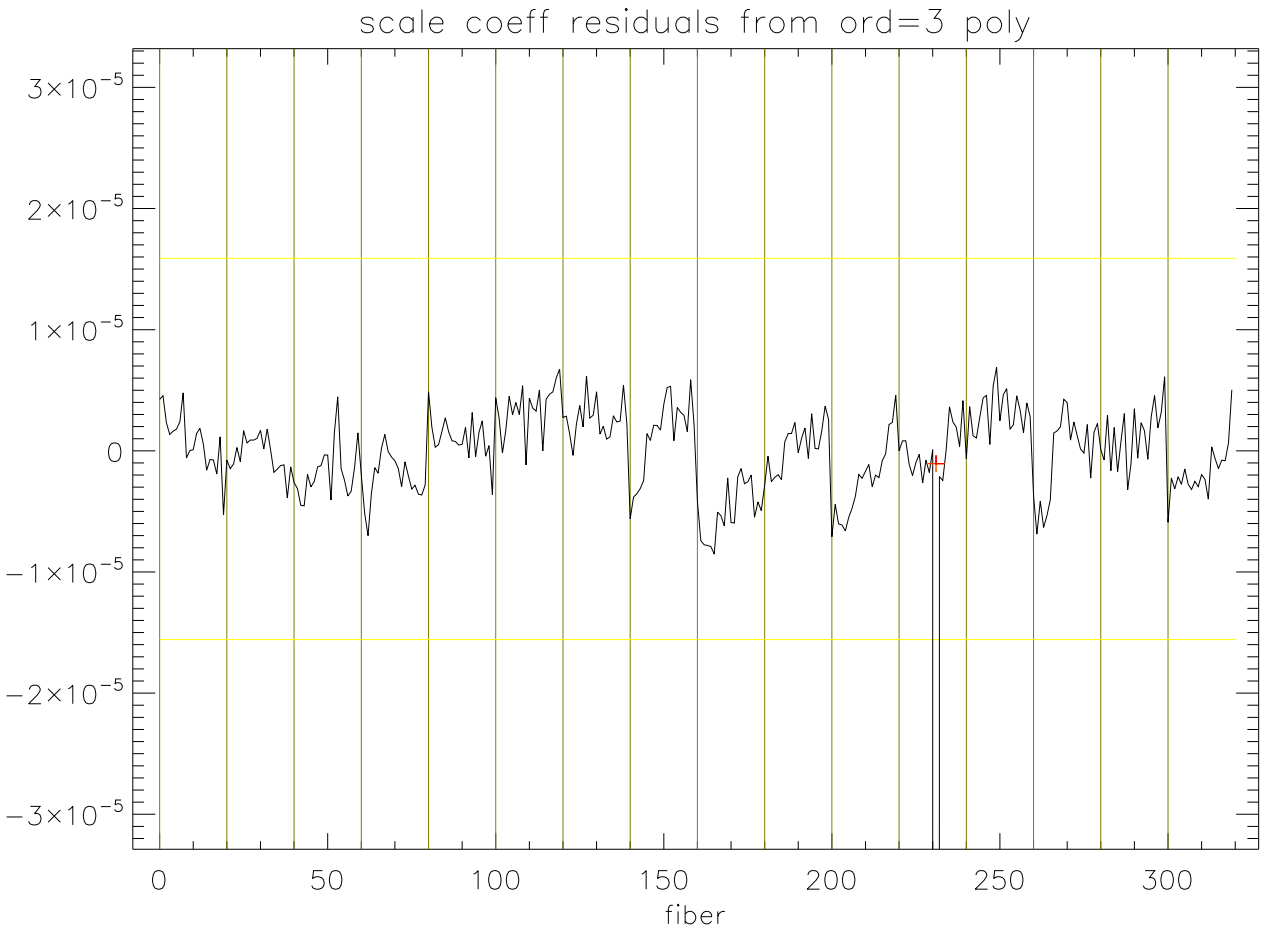

PLATE=0682 MJD=52525 sdR-b1-00016308.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 19.99 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

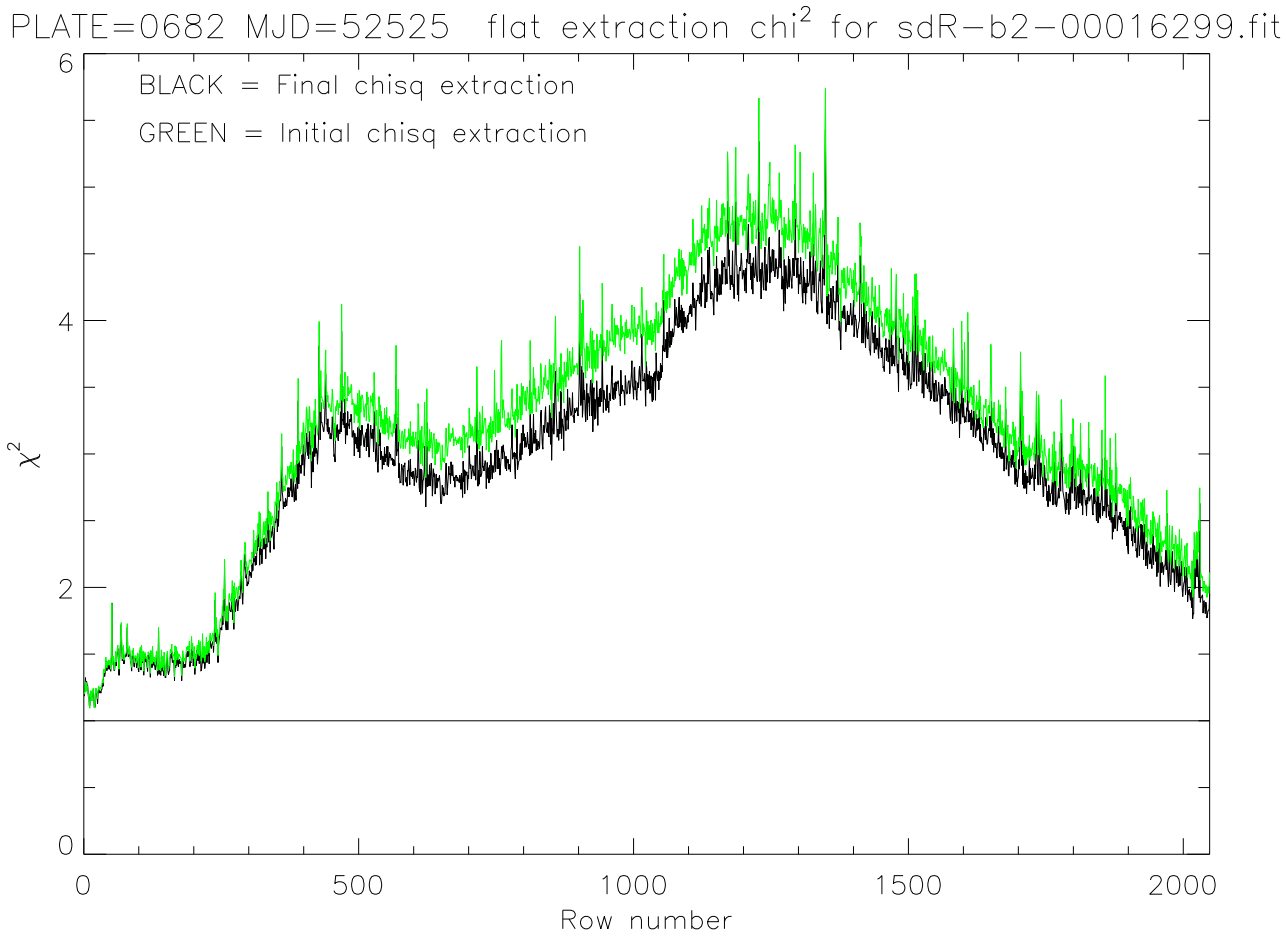

PLATE=0682 MJD=52525 sdR-b1-00016308.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.01 %
Fiber number
Focal Distance [mm]
Airmass

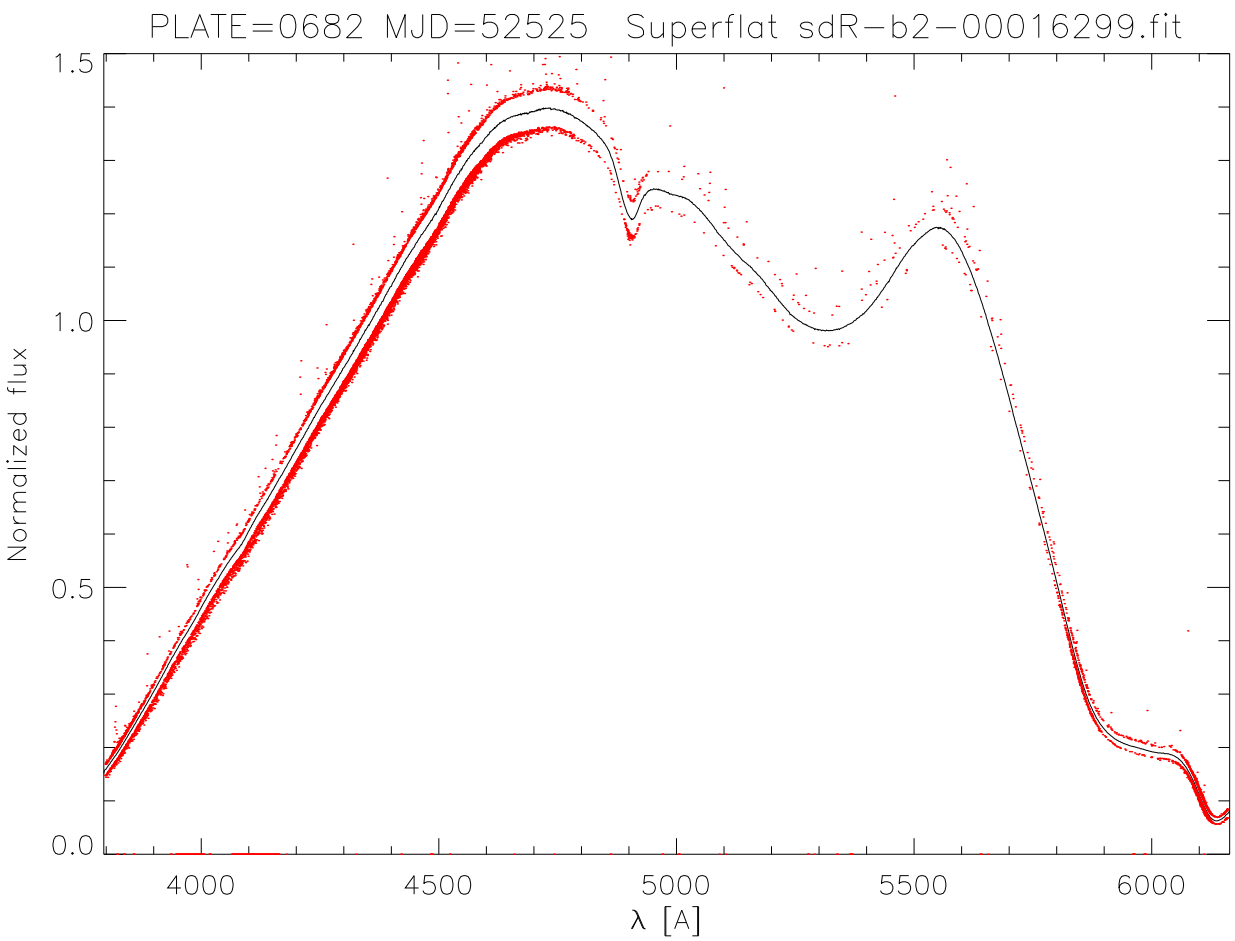

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

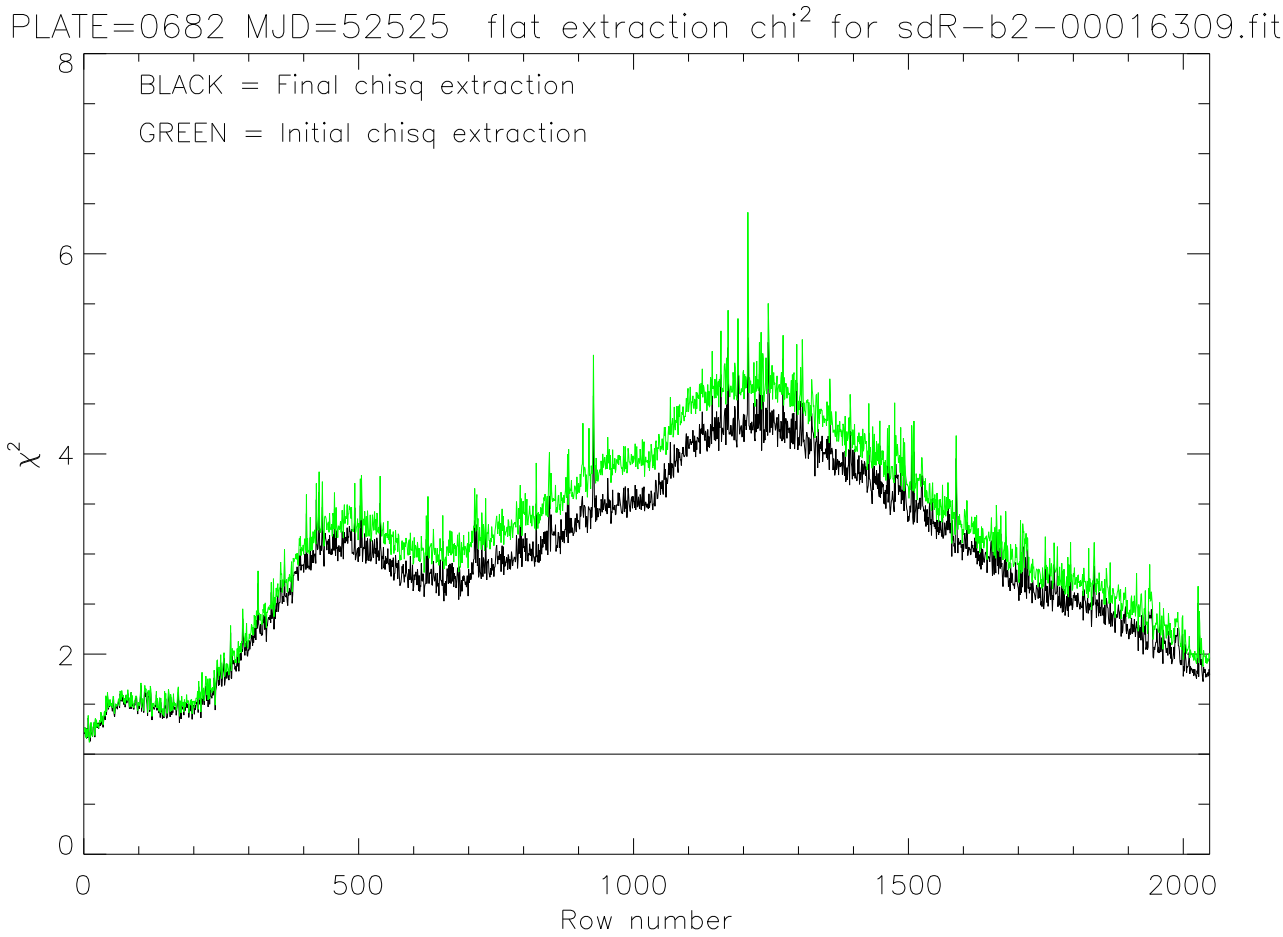

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

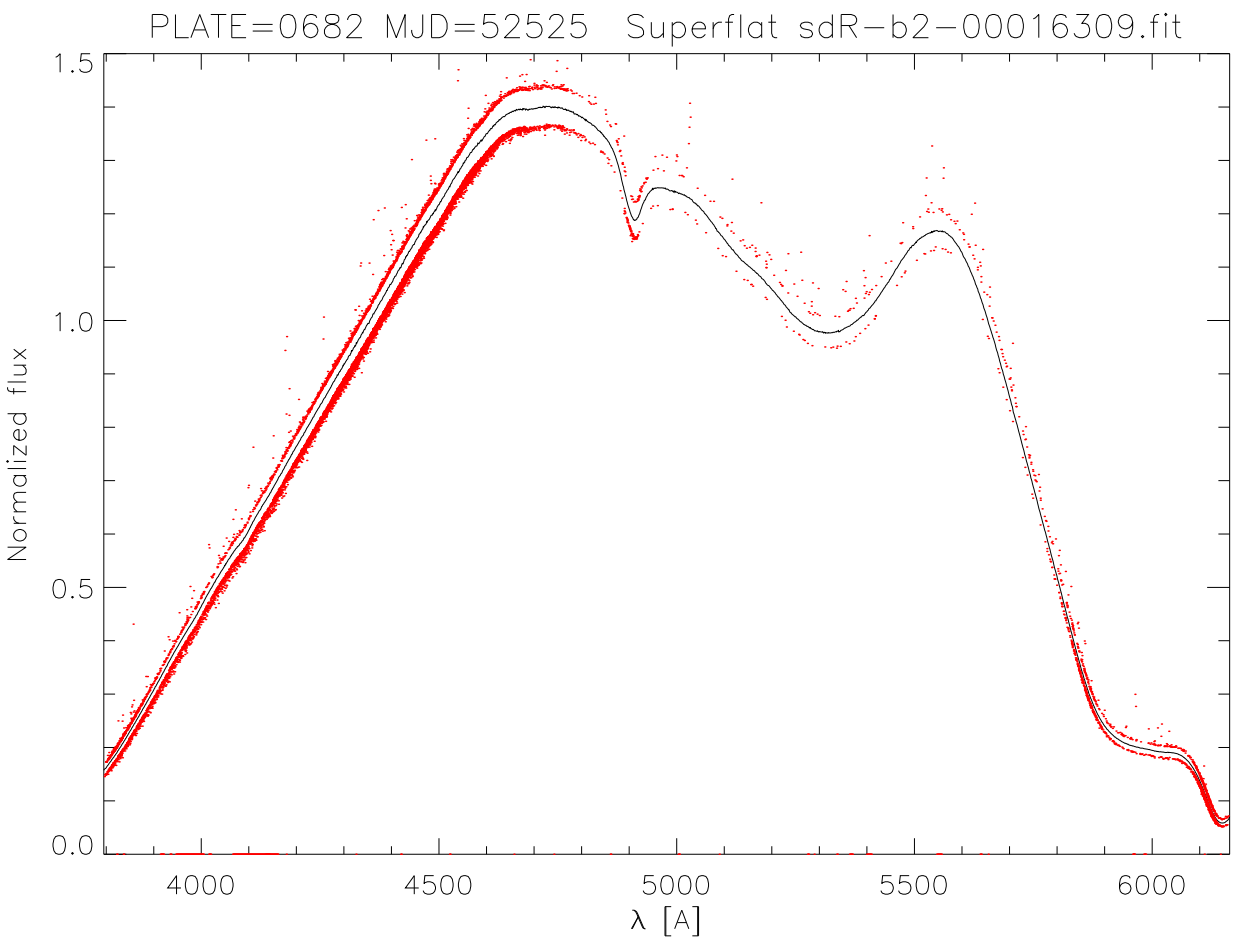

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

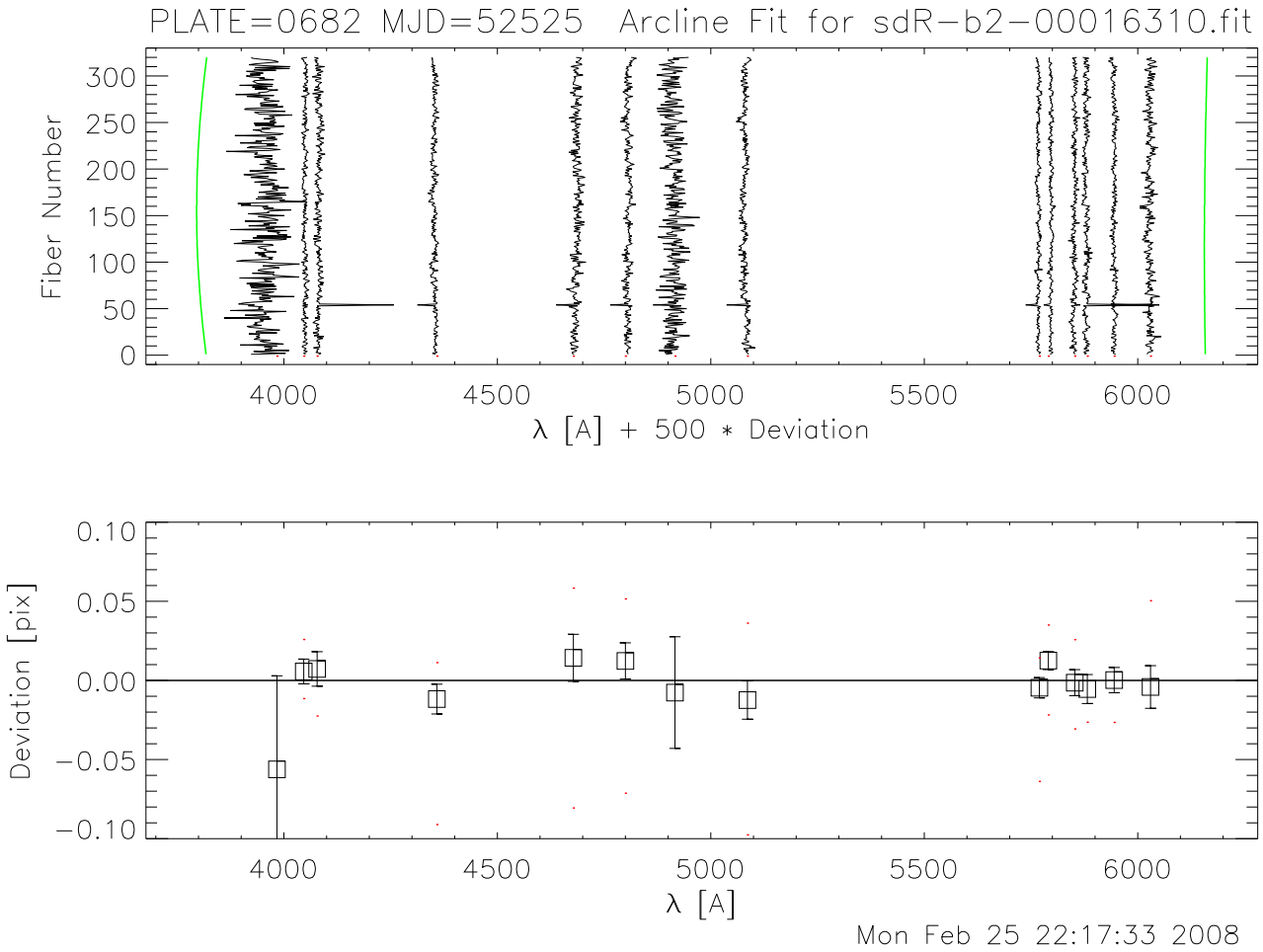

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

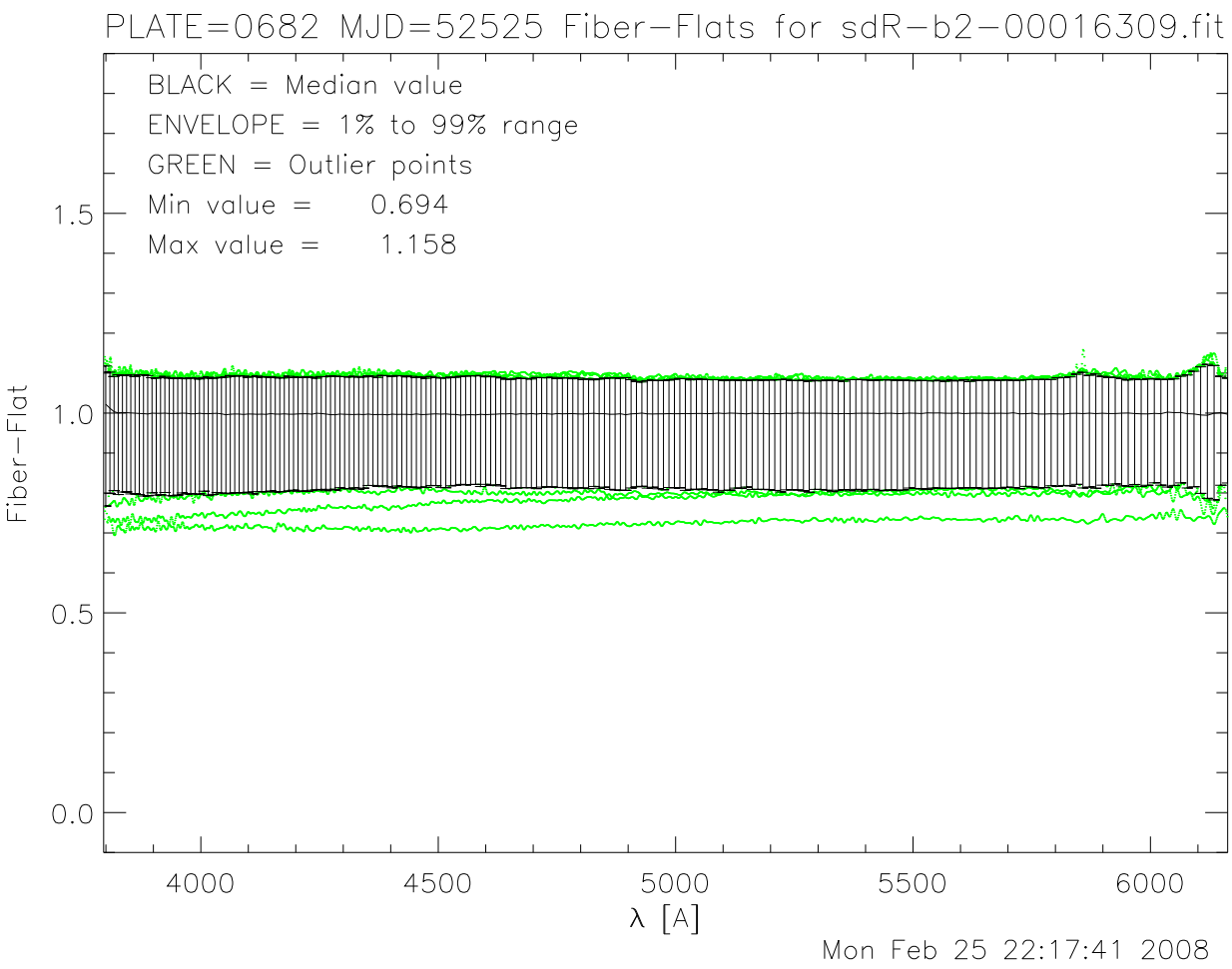

PLATE=0682 MJD=52525 flat extraction chi$^2$ for sdR−b2−00016299.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
0
500
1000
1500
2000
Row number

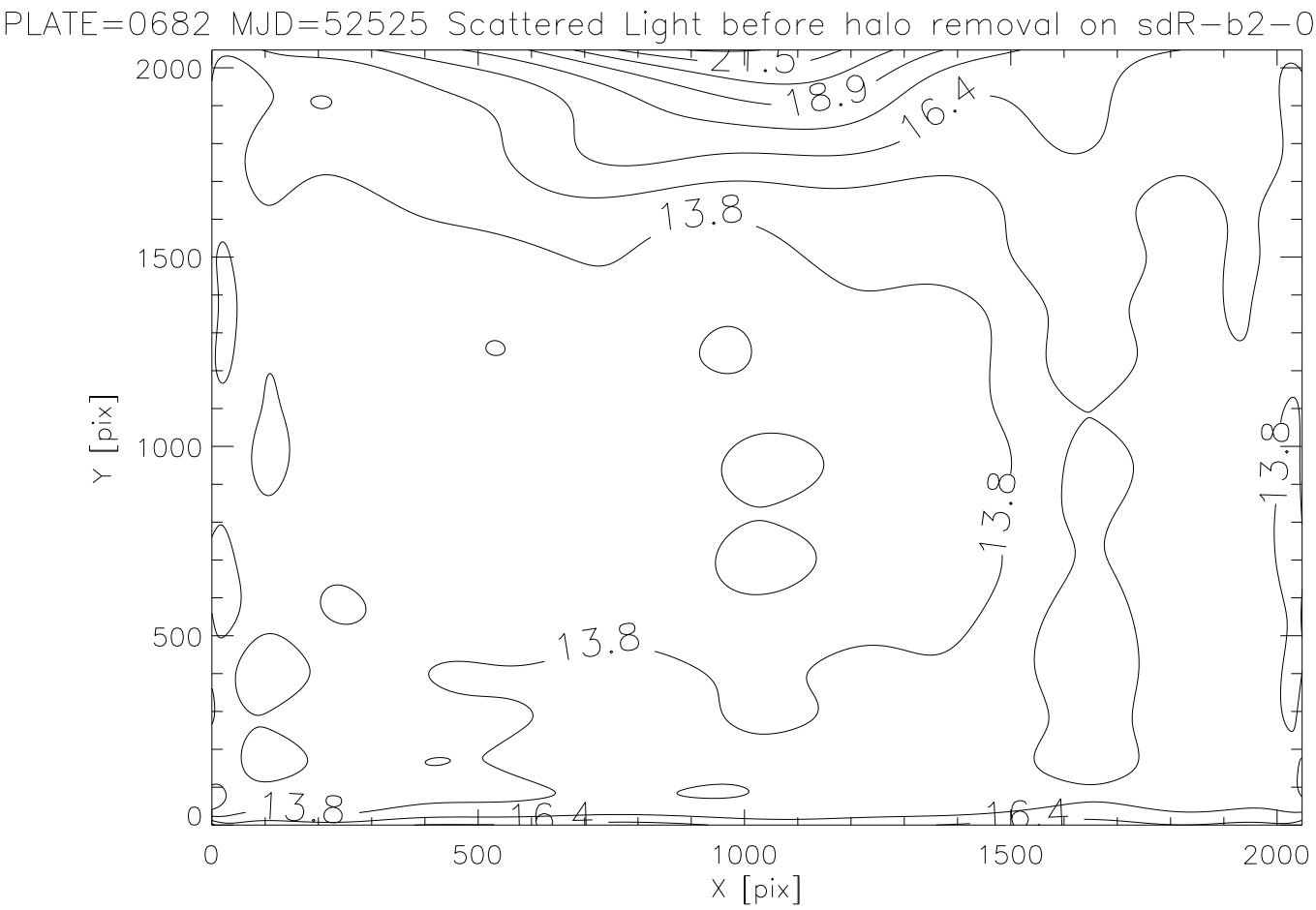

PLATE=0682 MJD=52525 Superflat sdR-b2-00016299.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

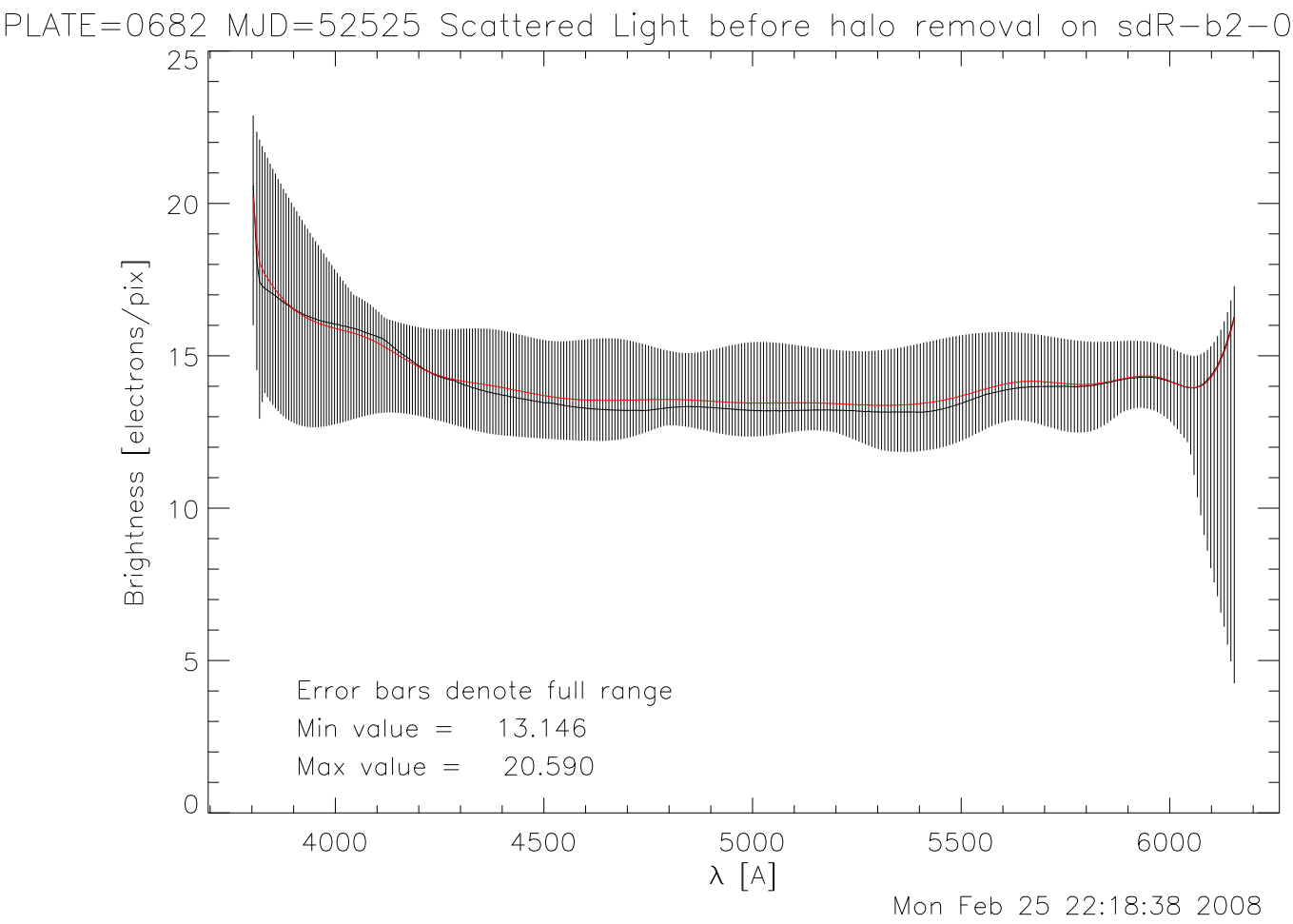

PLATE=0682 MJD=52525 flat extraction chi$^2$ for sdR−b2−00016309.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
8
0
500
1000
1500
2000
Row number

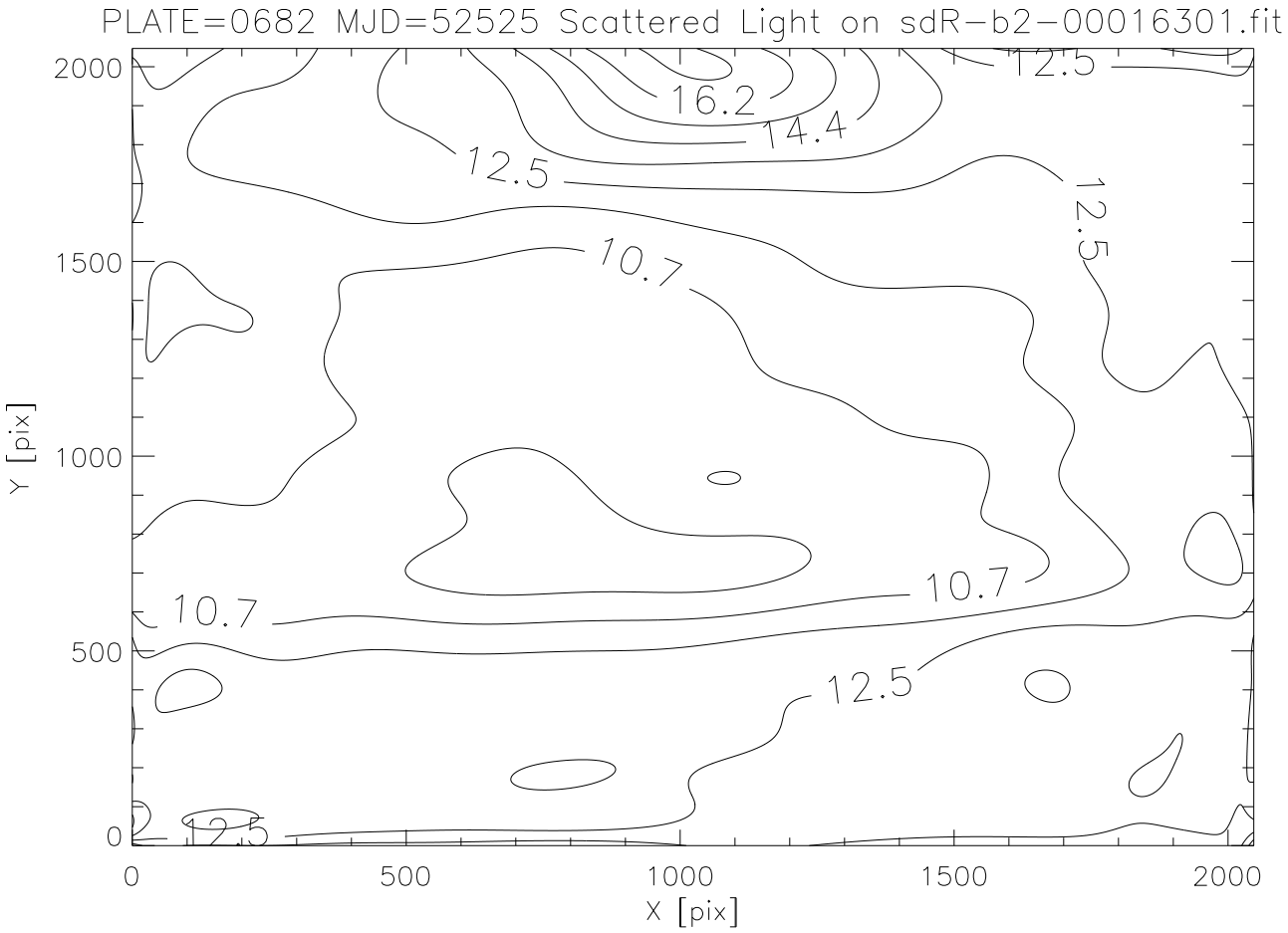

PLATE=0682 MJD=52525 Superflat sdR-b2-00016309.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

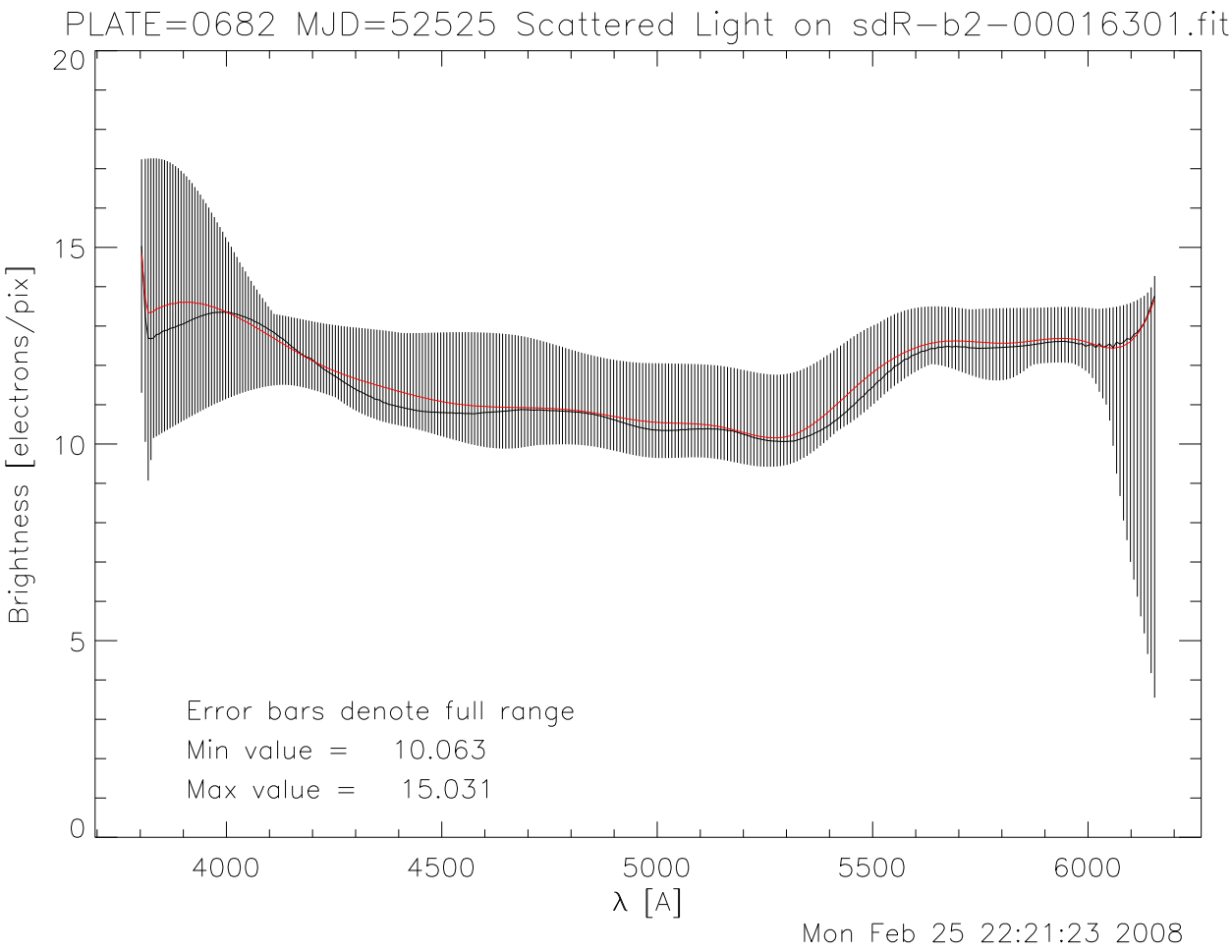

PLATE=0682 MJD=52525 Arcline Fit for sdR-b2-00016310.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:17:33 2008

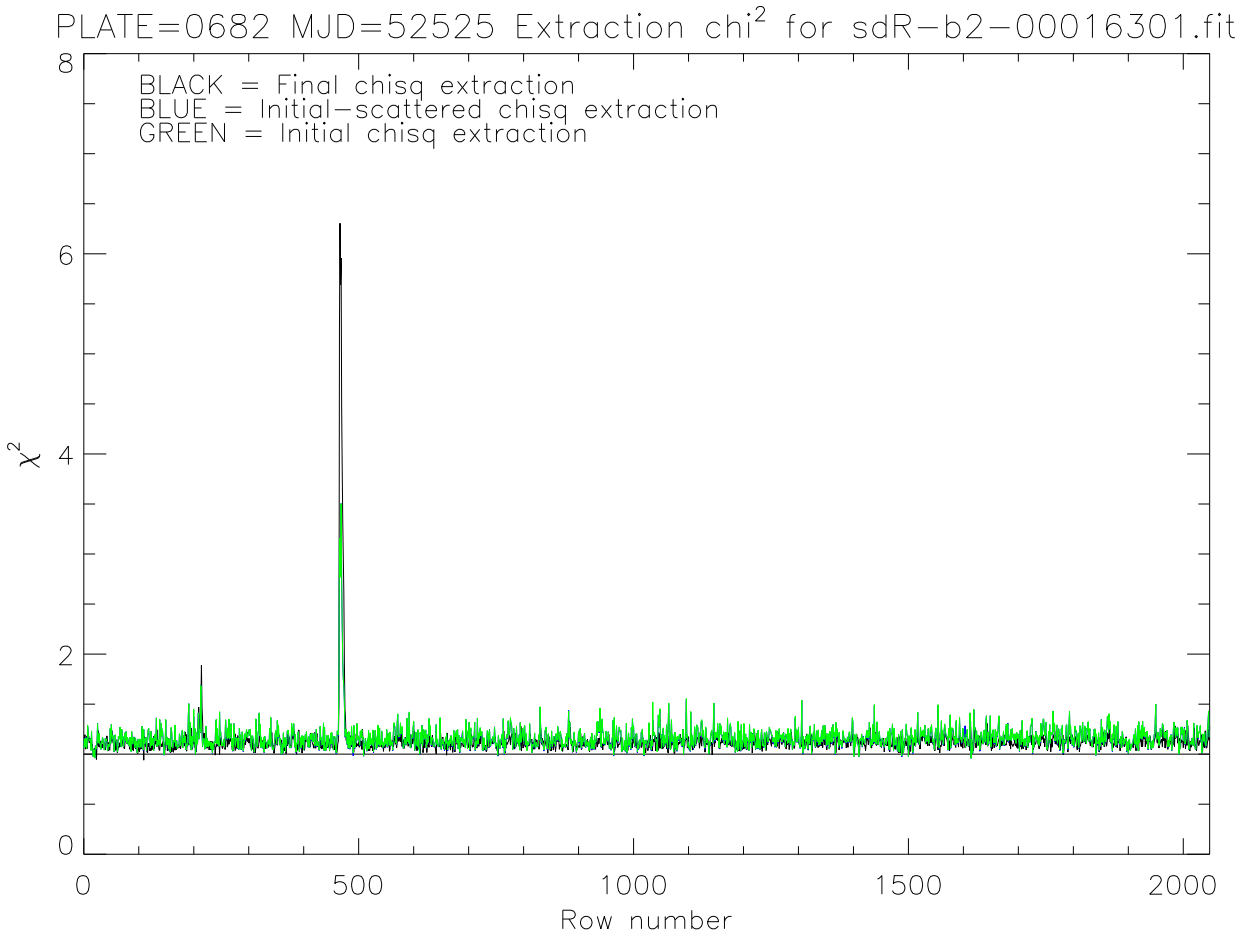

PLATE=0682 MJD=52525 Fiber-Flats for sdR-b2-00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.694
Max value = 1.158
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:17:41 2008

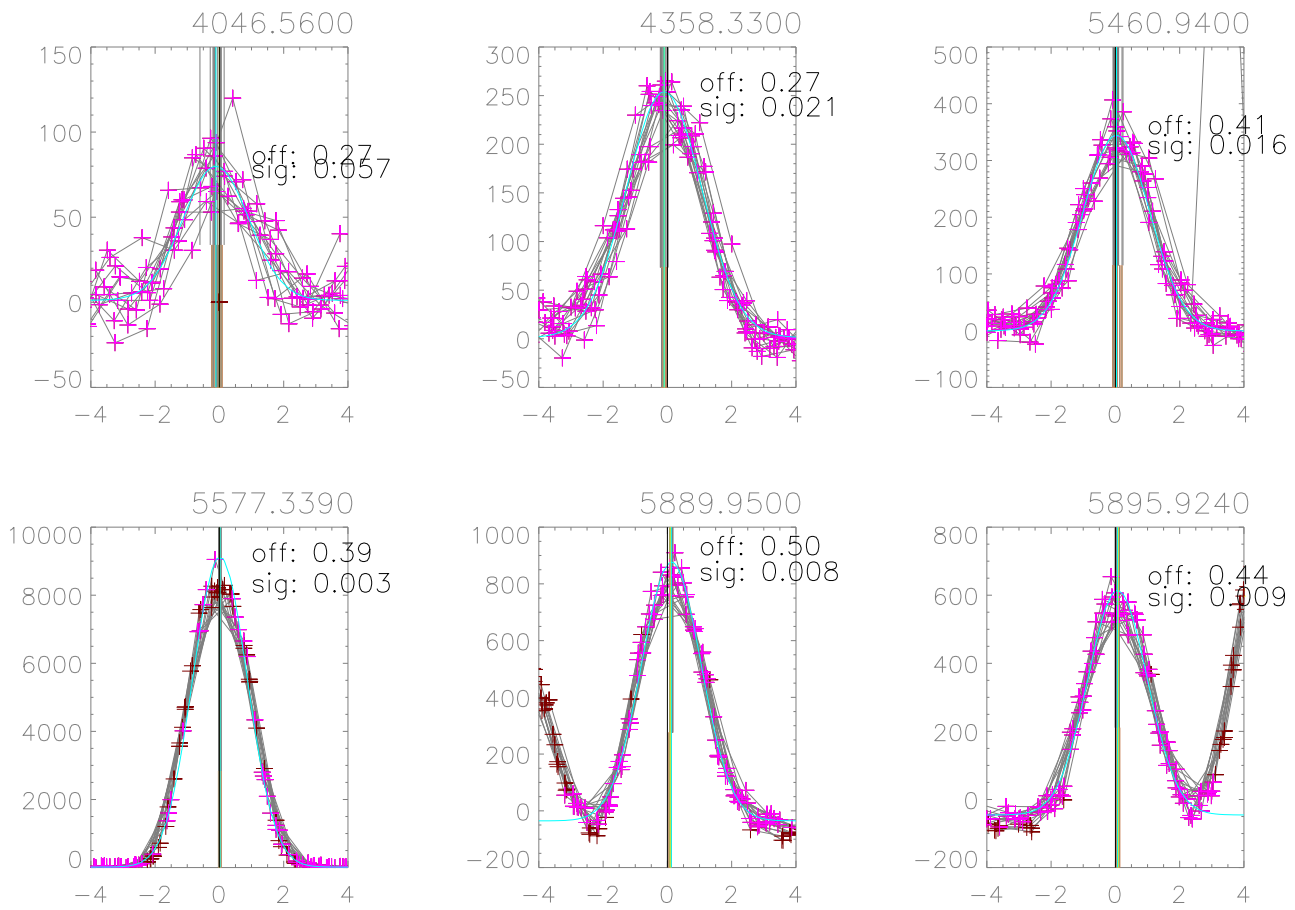

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b2-00016301.f
21.5
18.9
16.4
13.8
13.8
13.8
13.8
13.8
16.4
16.4
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

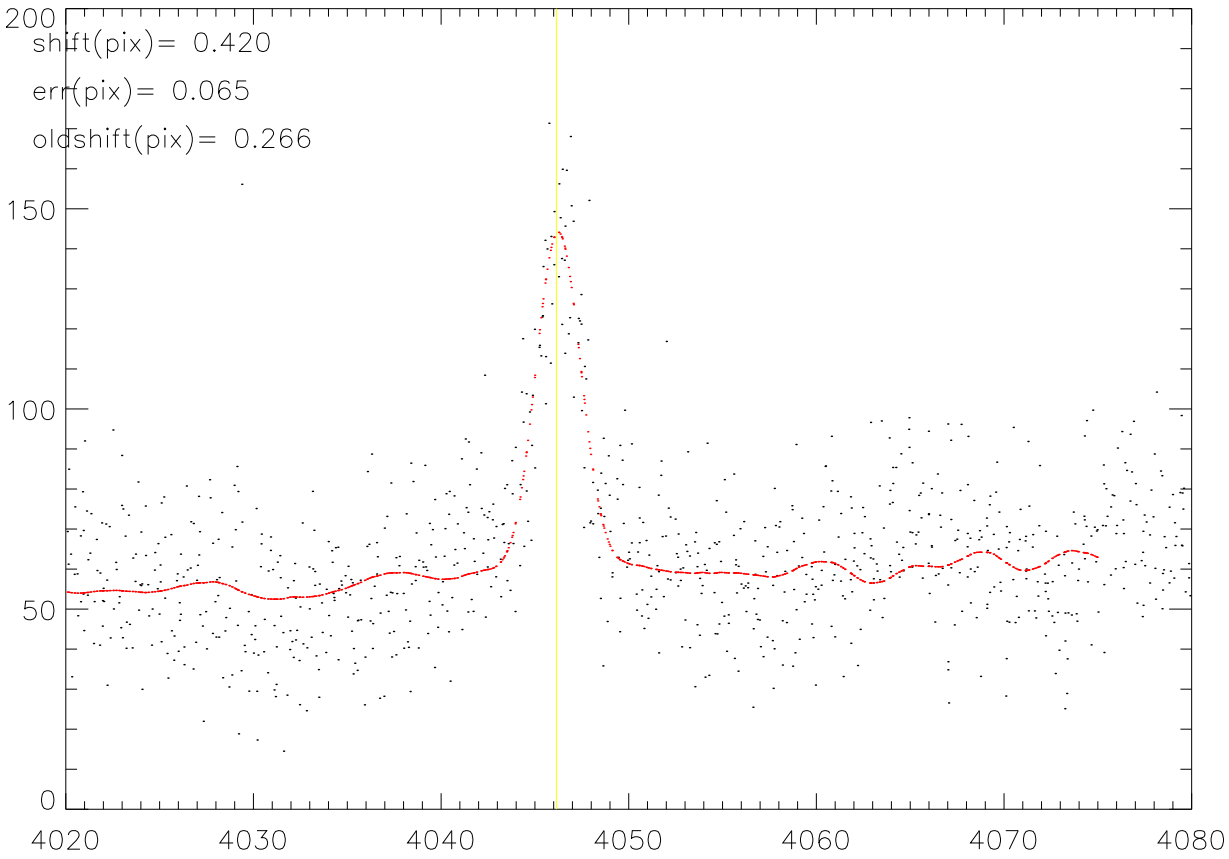

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b2-00016301.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 13.146
Max value = 20.590
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:18:38 2008

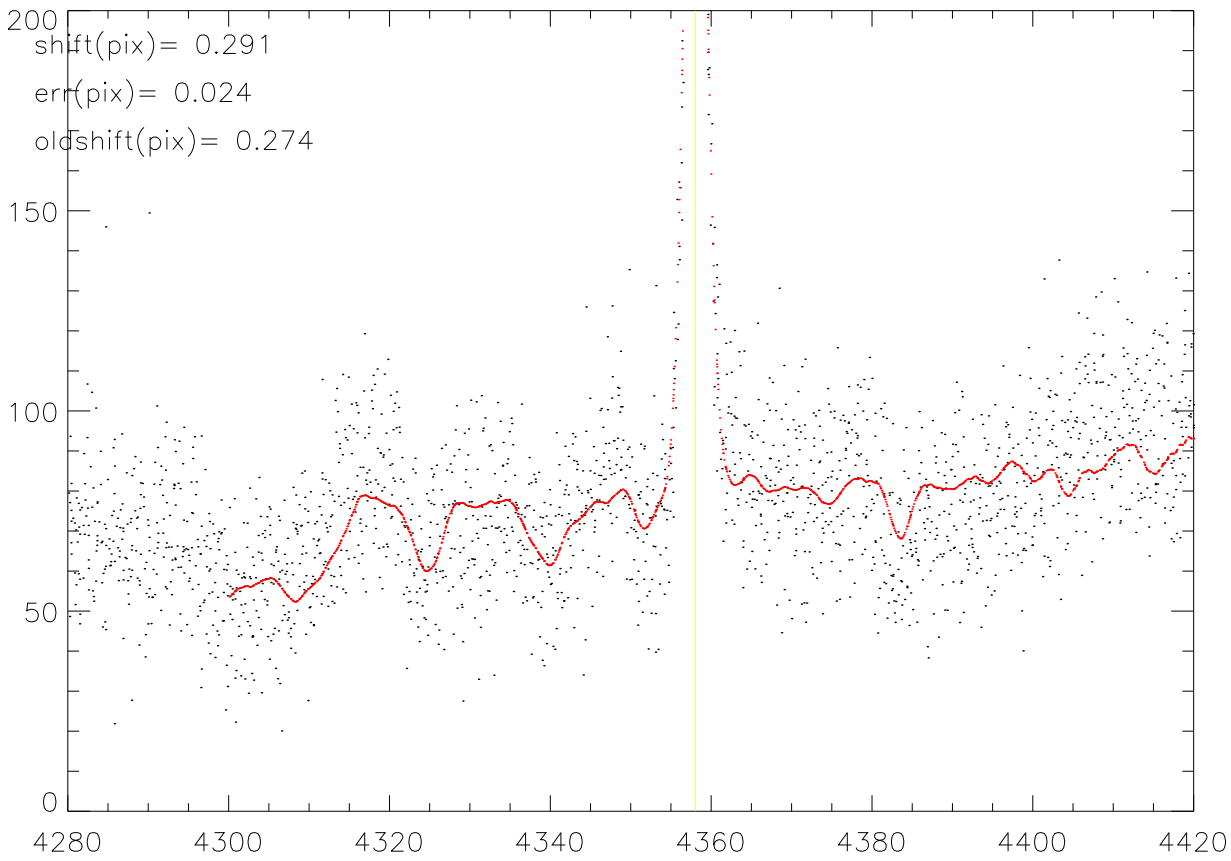

PLATE=0682 MJD=52525 Scattered Light on sdR-b2-00016301.fit
16.2
14.4
12.5
12.5
12.5
10.7
10.7
10.7
12.5
12.5
Y [pix]
X [pix]
0
500
1000
1500
2000

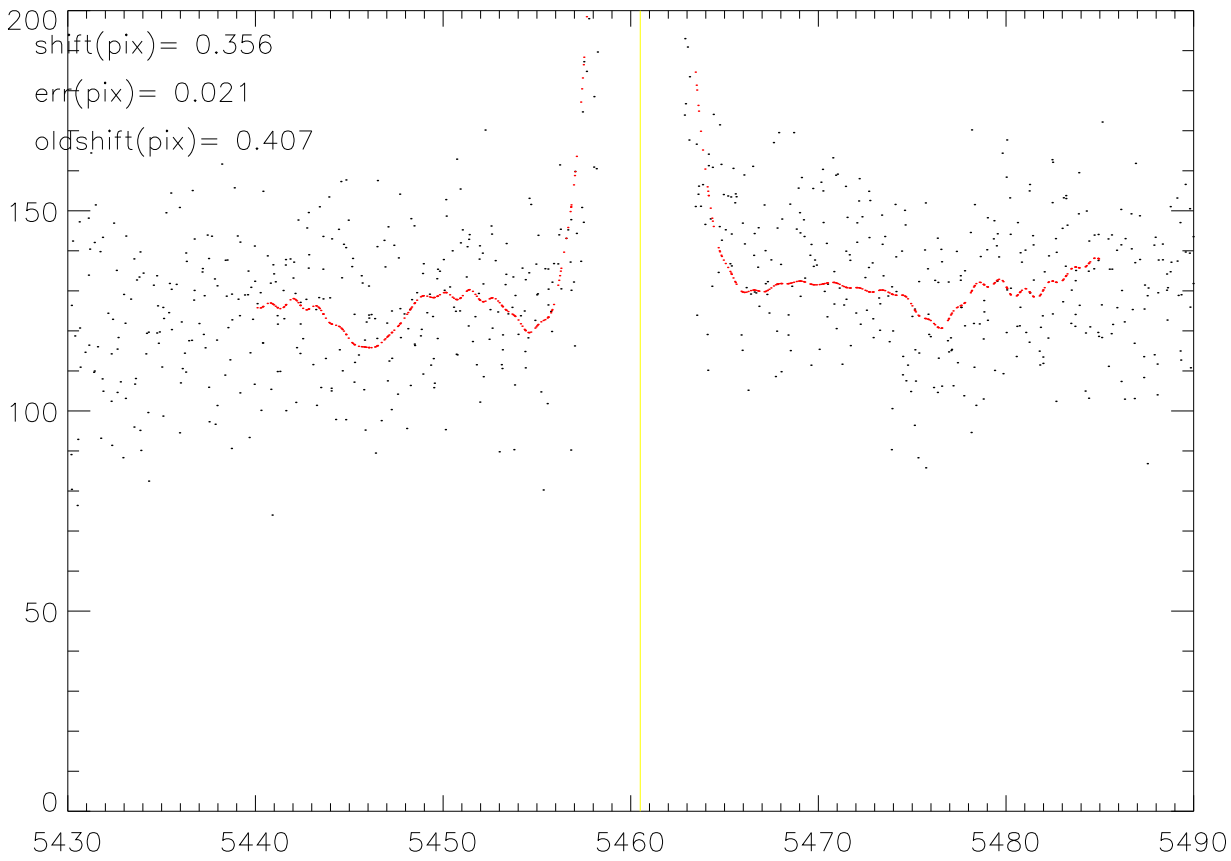

PLATE=0682 MJD=52525 Scattered Light on sdR-b2-00016301.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 10.063
Max value = 15.031
Mon Feb 25 22:21:23 2008

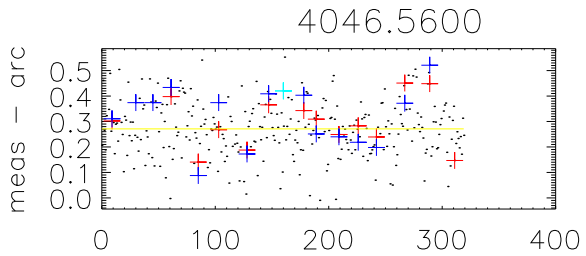

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR-b2-00016301.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
8
0
500
1000
1500
2000
Row number

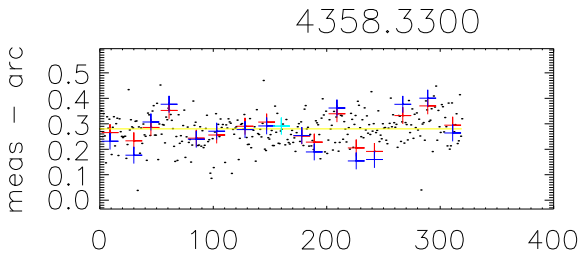

4046.5600
off: 0.27
sig: 0.057
4358.3300
off: 0.27
sig: 0.021
5460.9400
off: 0.41
sig: 0.016
5577.3390
off: 0.39
sig: 0.003
5889.9500
off: 0.50
sig: 0.008
5895.9240
off: 0.44
sig: 0.009

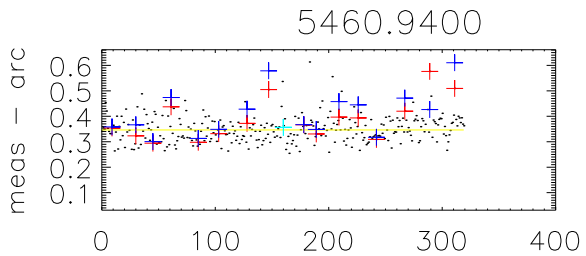

shift(pix)= 0.420
err(pix)= 0.065
oldshift(pix)= 0.266
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

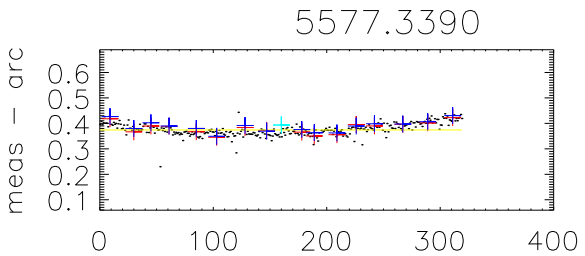

shift(pix)= 0.291
err(pix)= 0.024
oldshift(pix)= 0.274
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

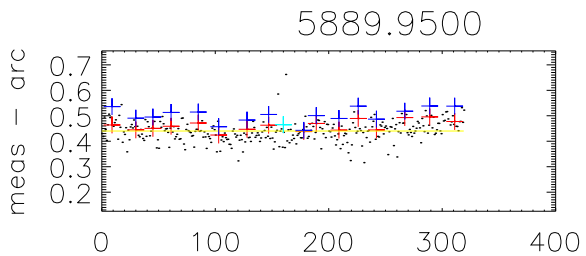

shift(pix)= 0.356
err(pix)= 0.021
oldshift(pix)= 0.407
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

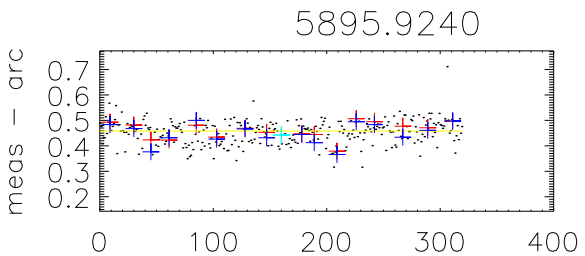

4046.5600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

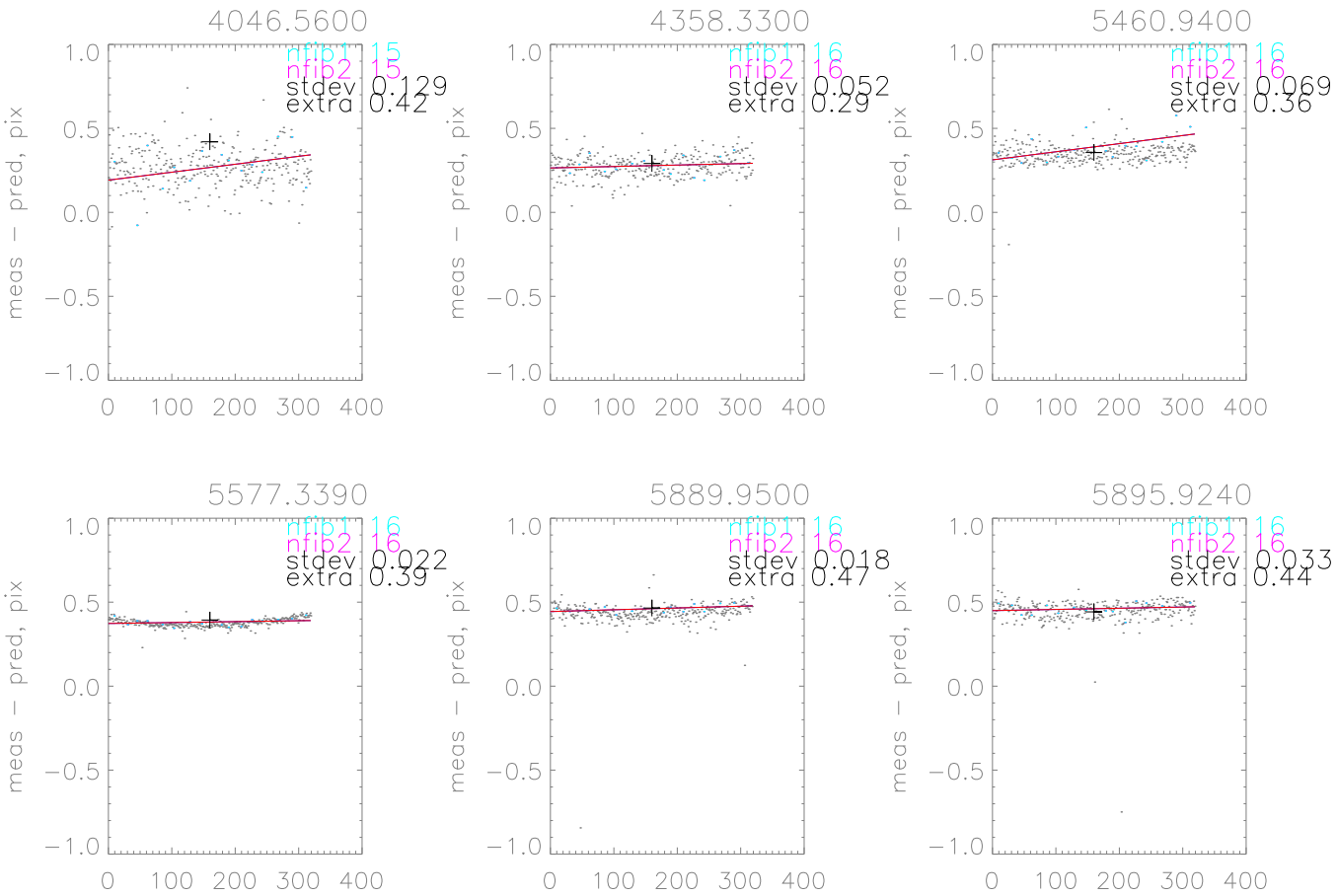

4358.3300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

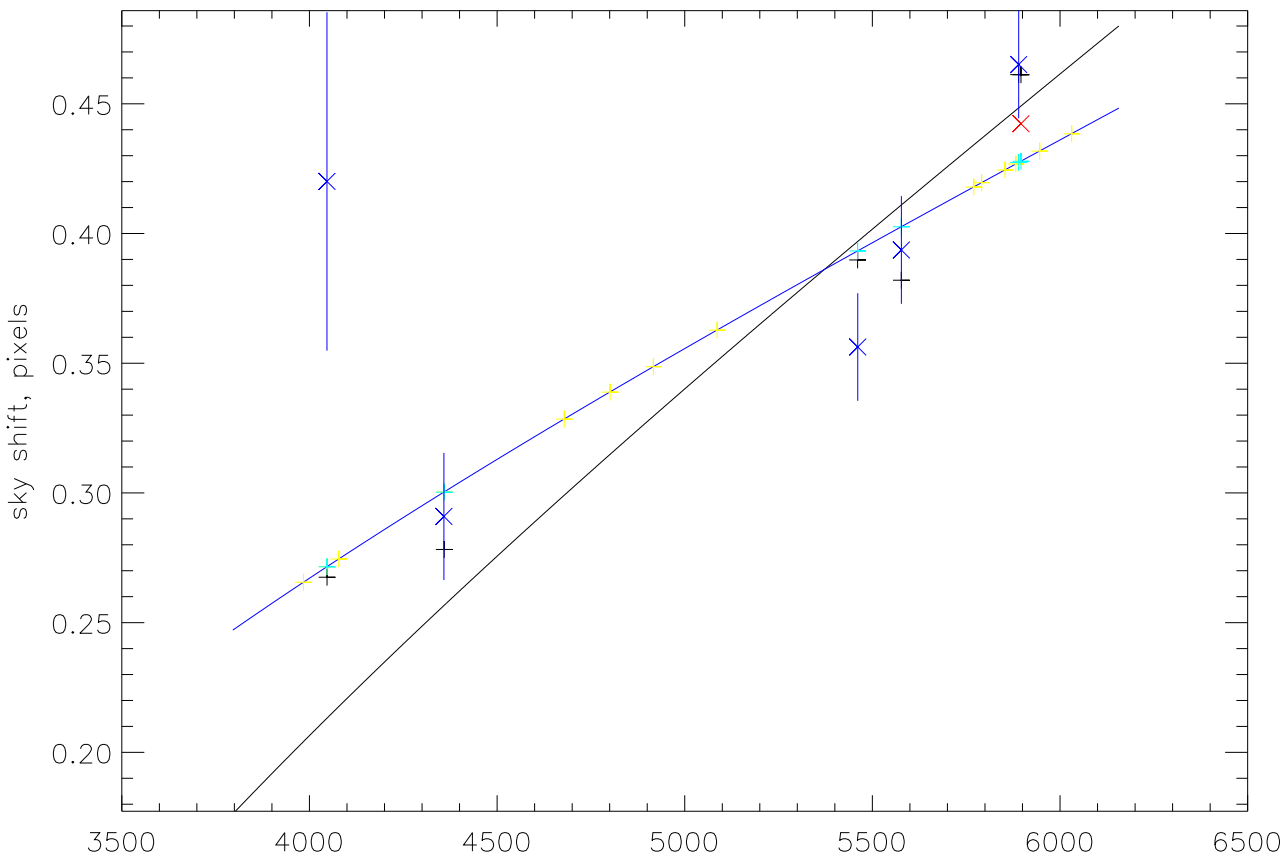

5460.9400
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

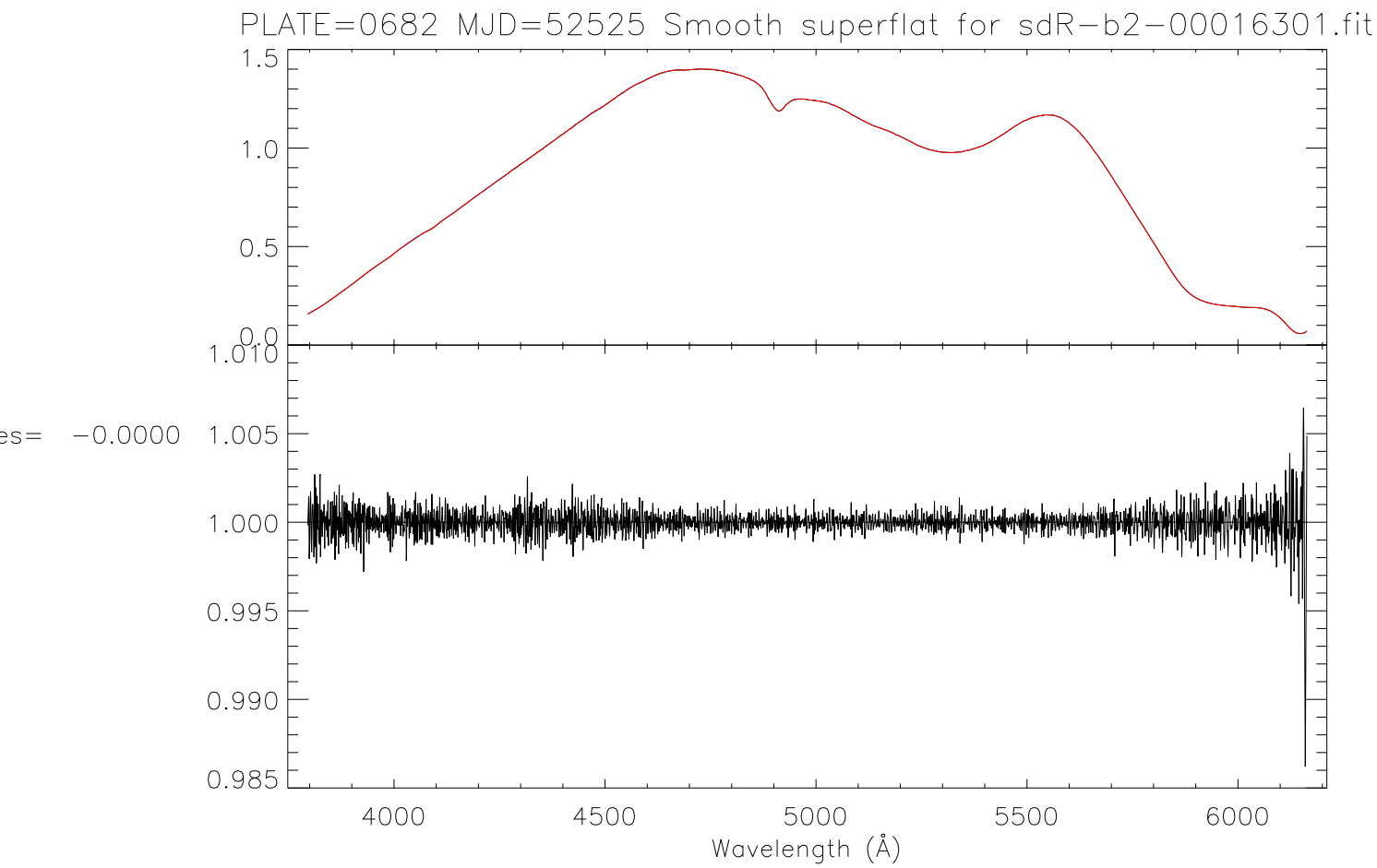

5577.3390
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

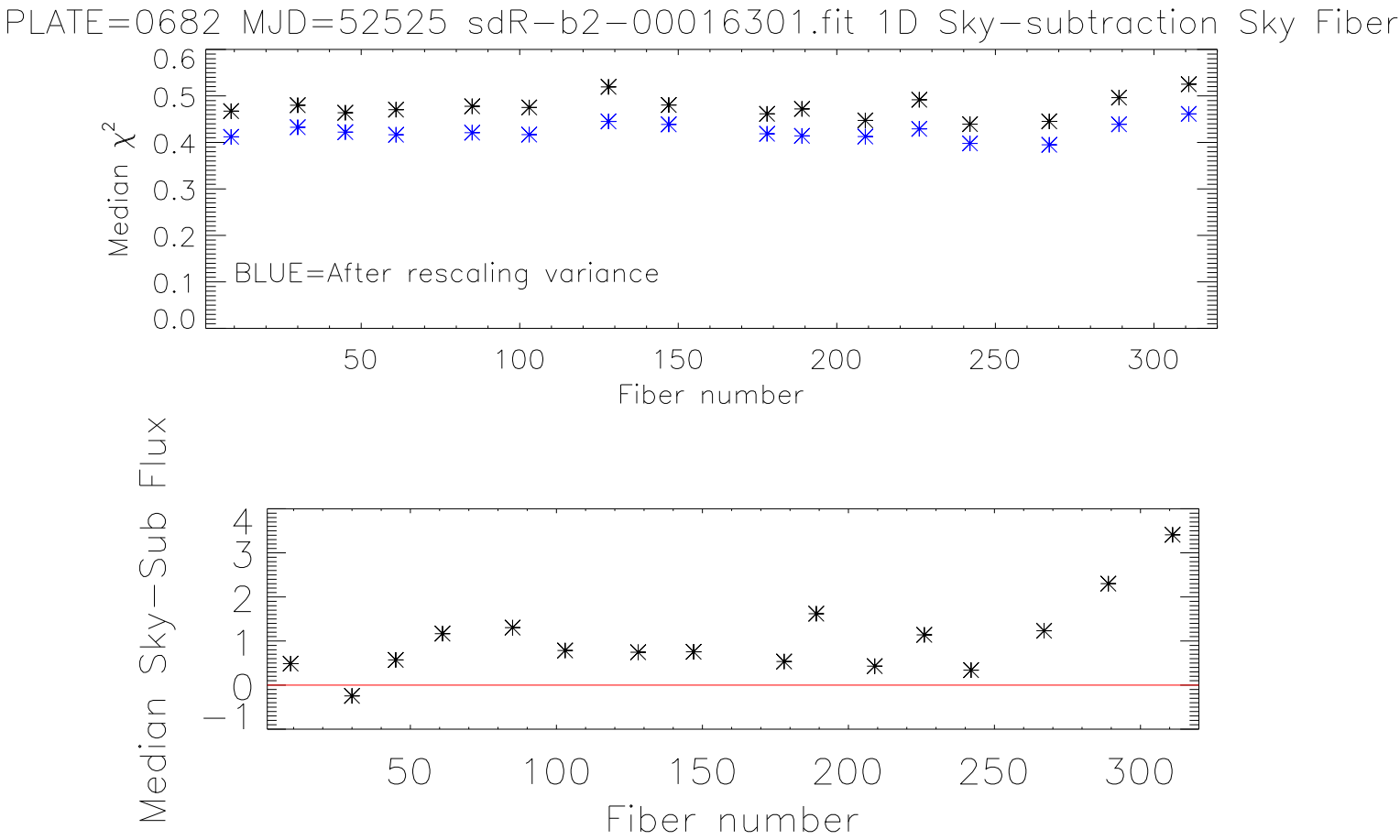

5889.9500
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

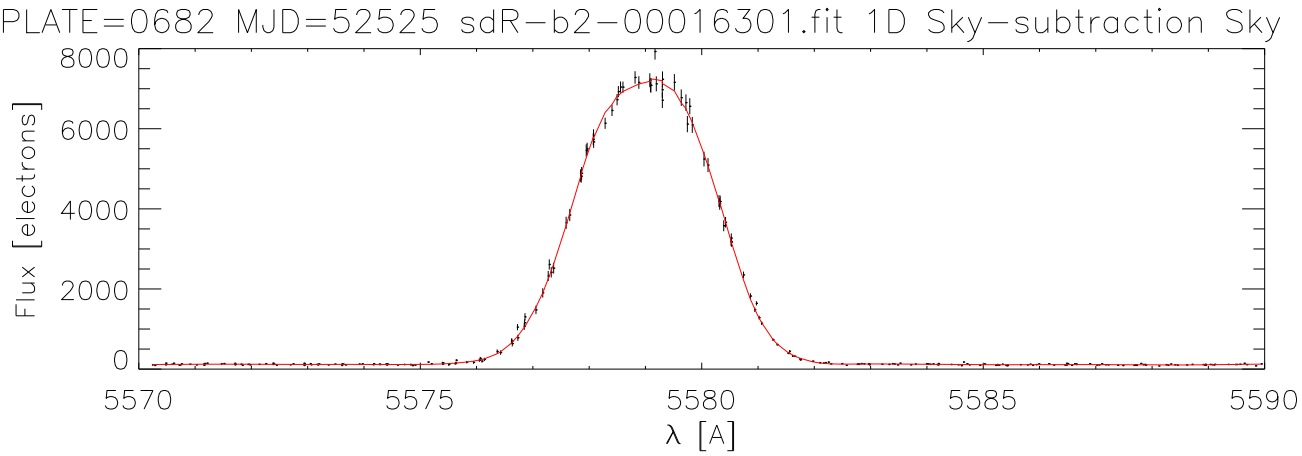

5895.9240
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

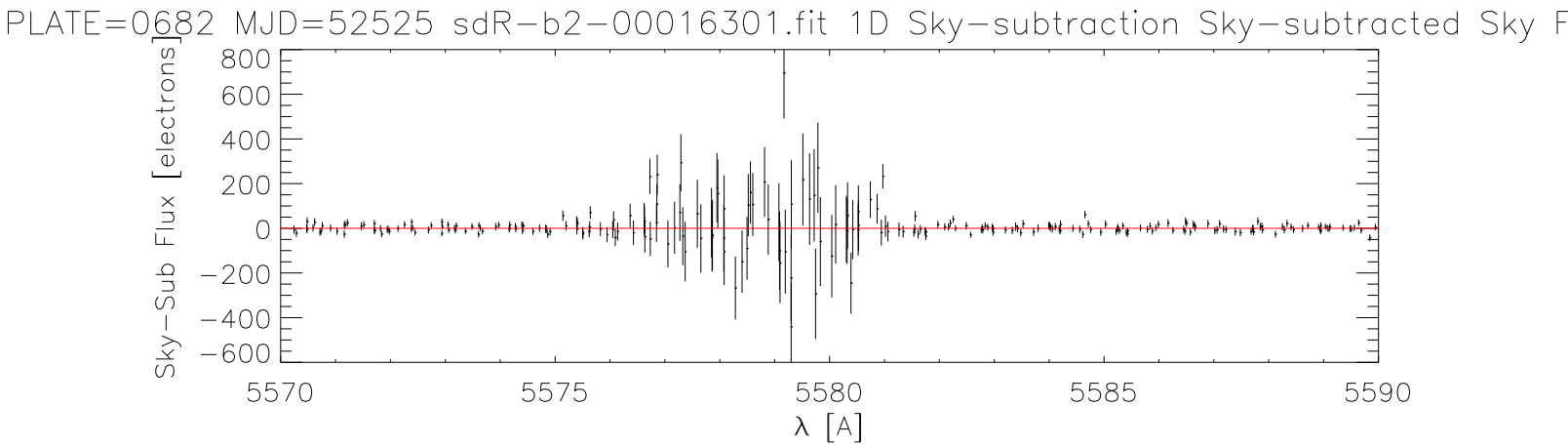

4046.5600
nfib1 15
nfib2 15
stdev 0.129
extra 0.42
4358.3300
nfib1 16
nfib2 16
stdev 0.052
extra 0.29
5460.9400
nfib1 16
nfib2 16
stdev 0.069
extra 0.36
5577.3390
nfib1 16
nfib2 16
stdev 0.022
extra 0.39
5889.9500
nfib1 16
nfib2 16
stdev 0.018
extra 0.47
5895.9240
nfib1 16
nfib2 16
stdev 0.033
extra 0.44
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

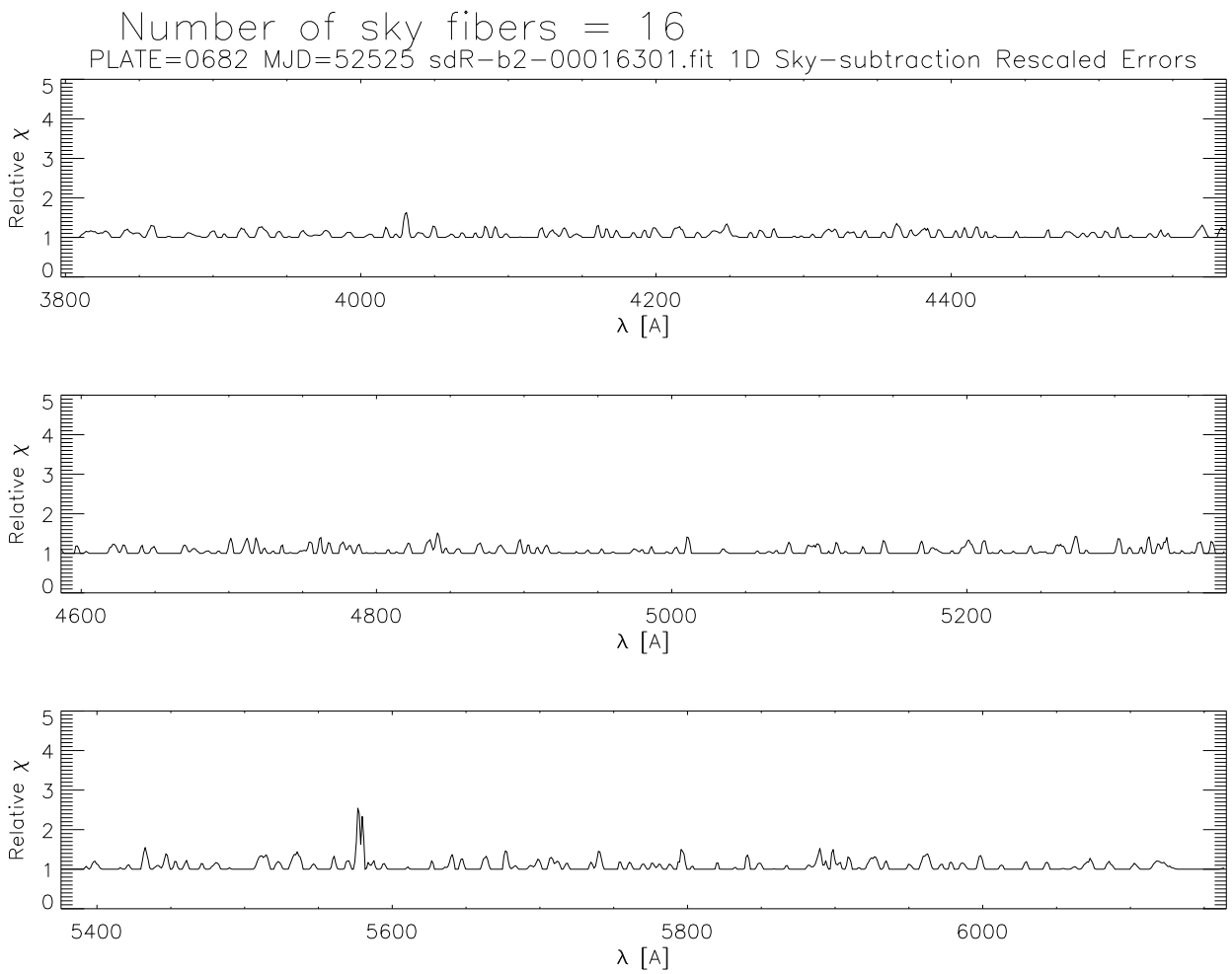

sky shift, pixels
0.45
0.40
0.35
0.30
0.25
0.20
3500
4000
4500
5000
5500
6000
6500

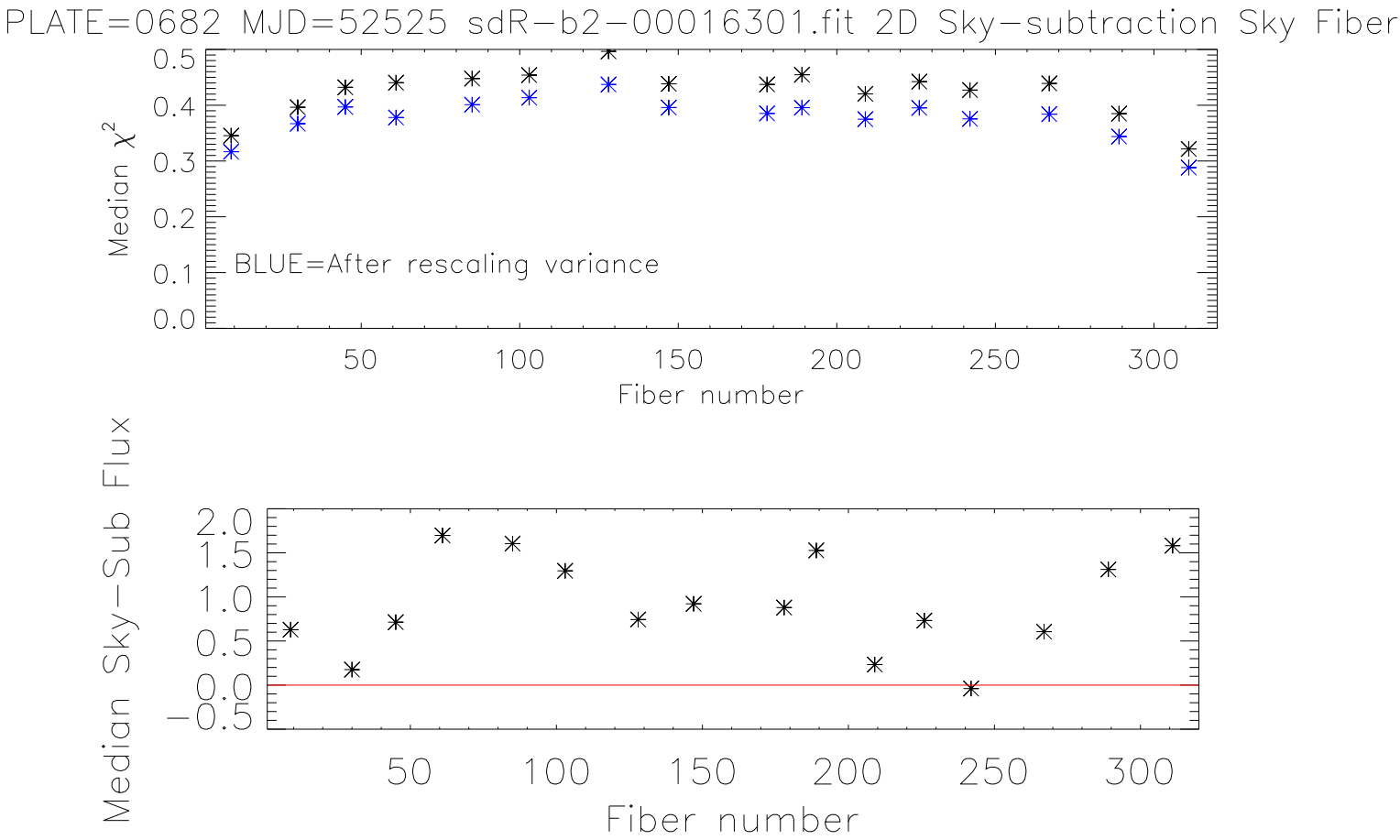

PLATE=0682 MJD=52525 Smooth superflat for sdR-b2-00016301.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

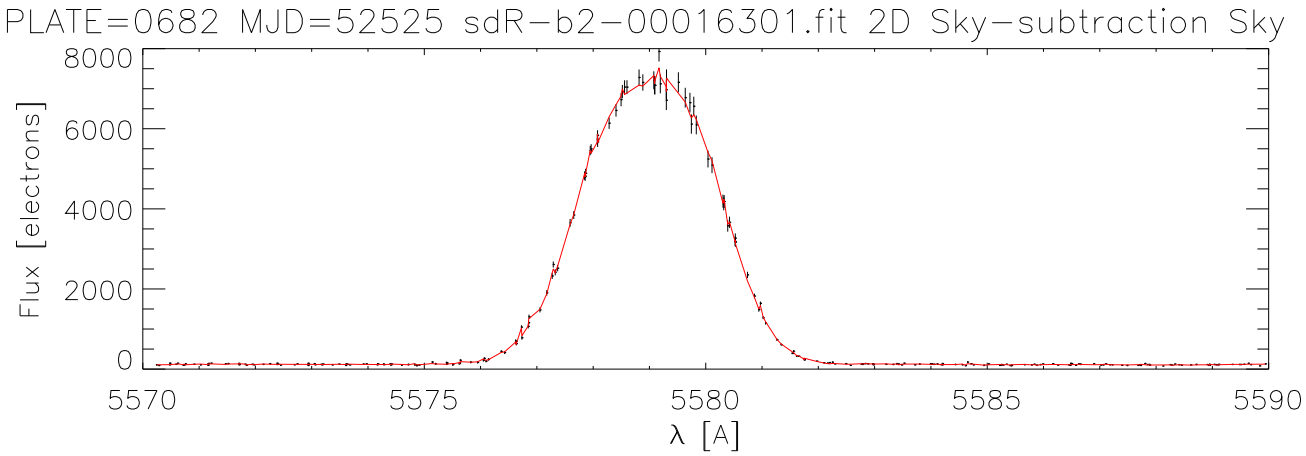

PLATE=0682 MJD=52525 sdR-b2-00016301.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

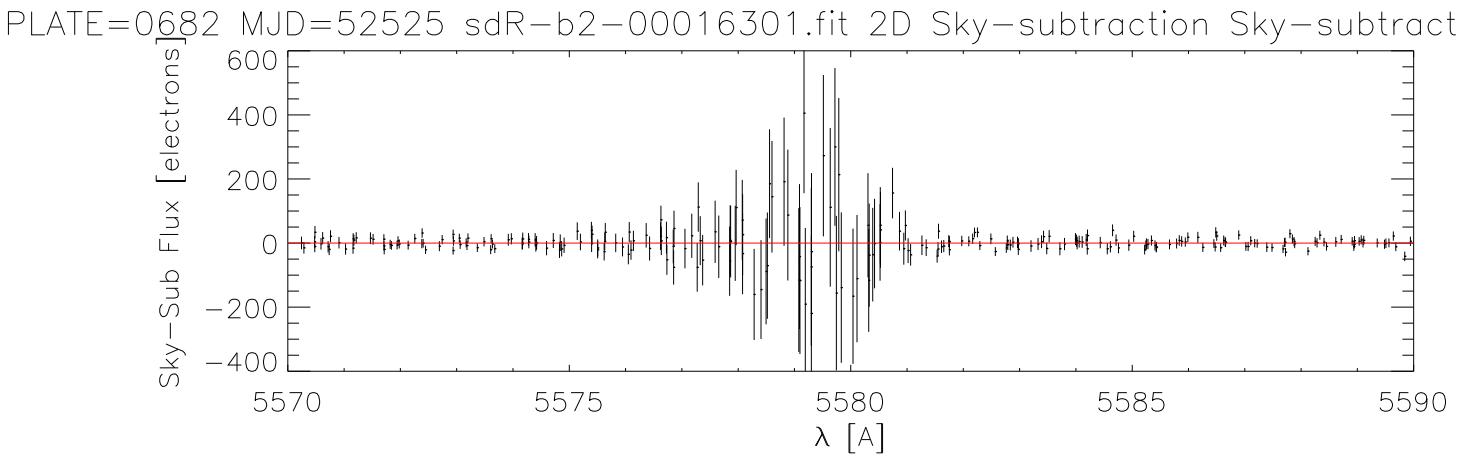

PLATE=0682 MJD=52525 sdR-b2-00016301.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

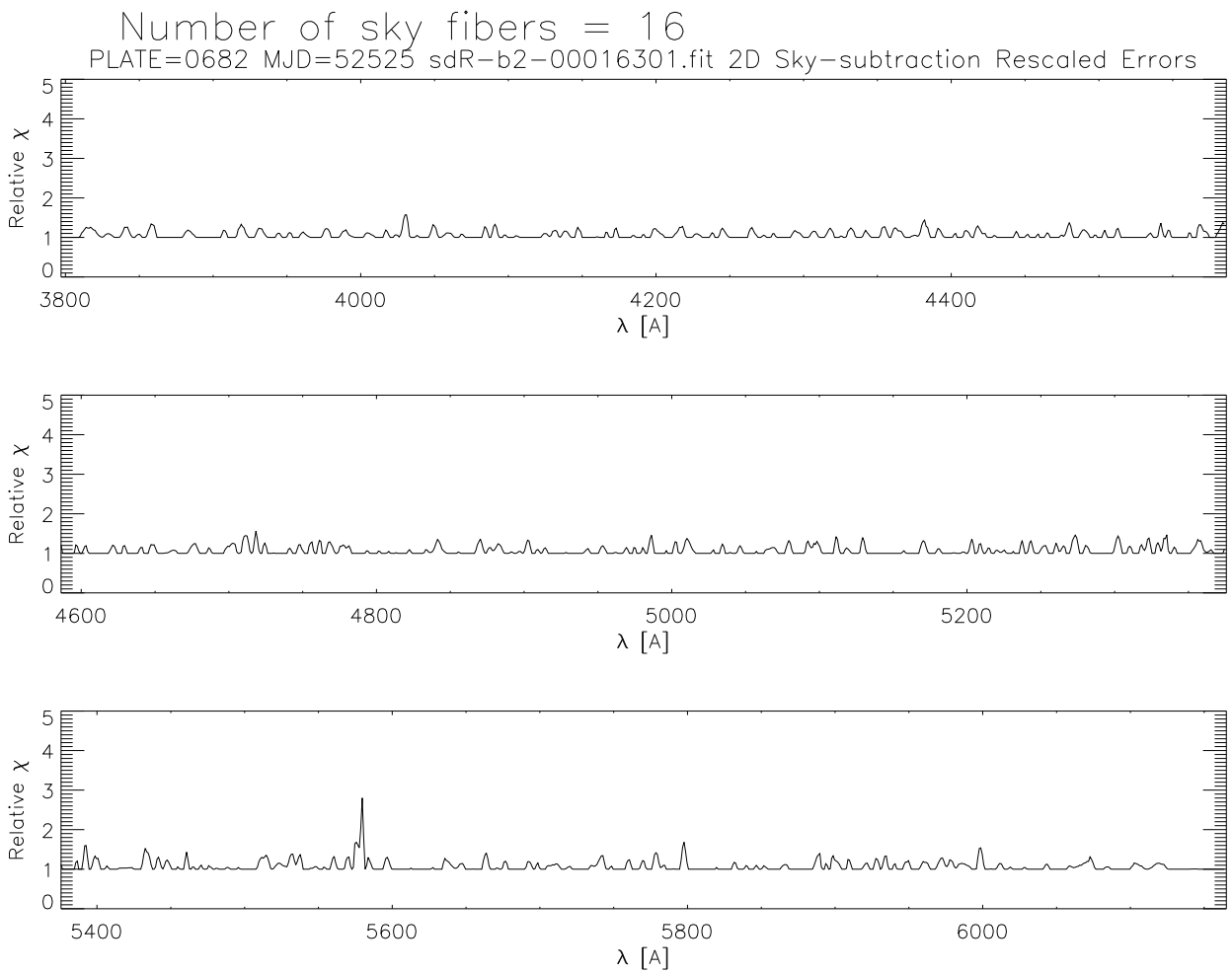

PLATE=0682 MJD=52525 sdR-b2-00016301.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

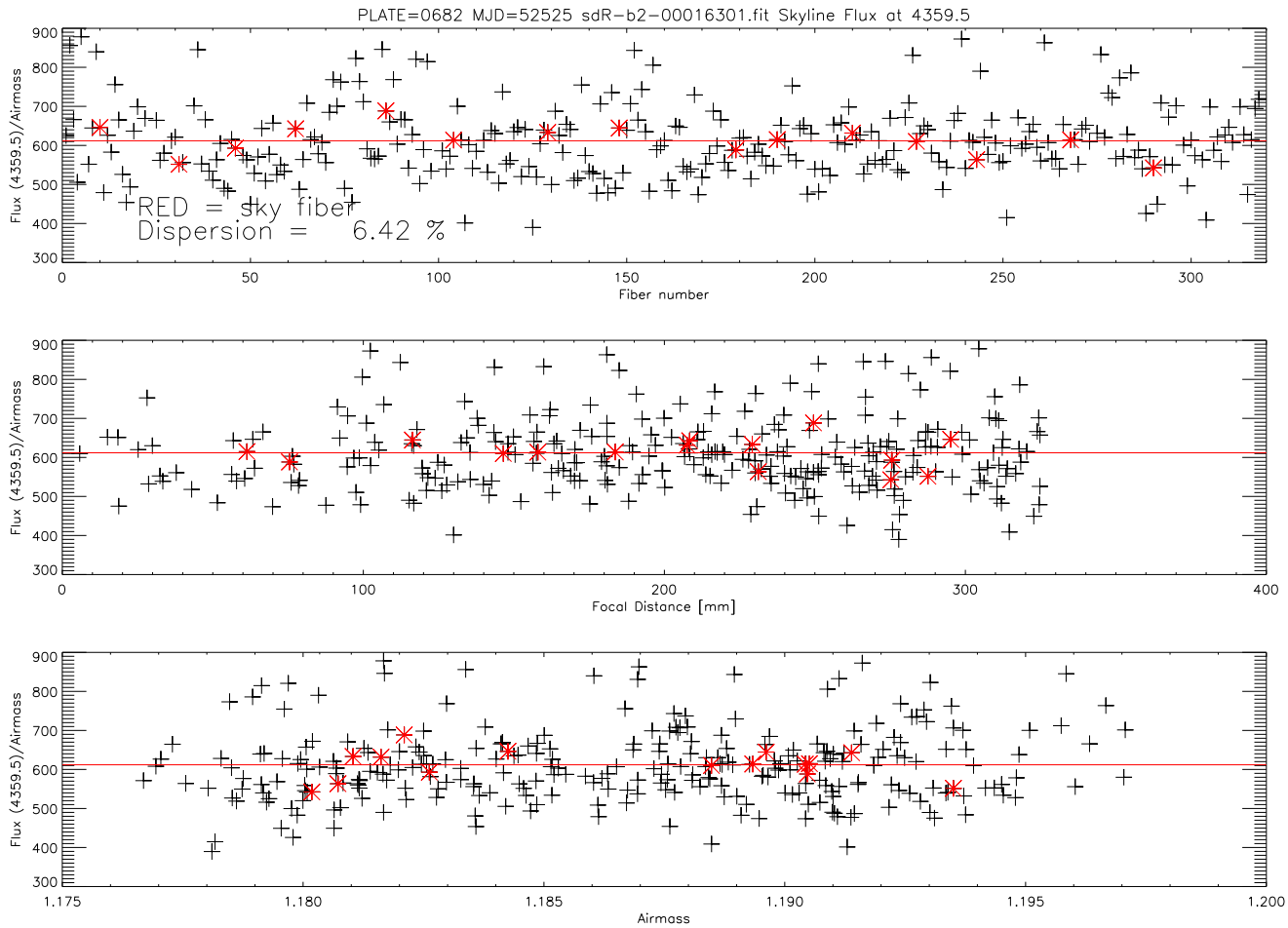

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b2-00016301.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

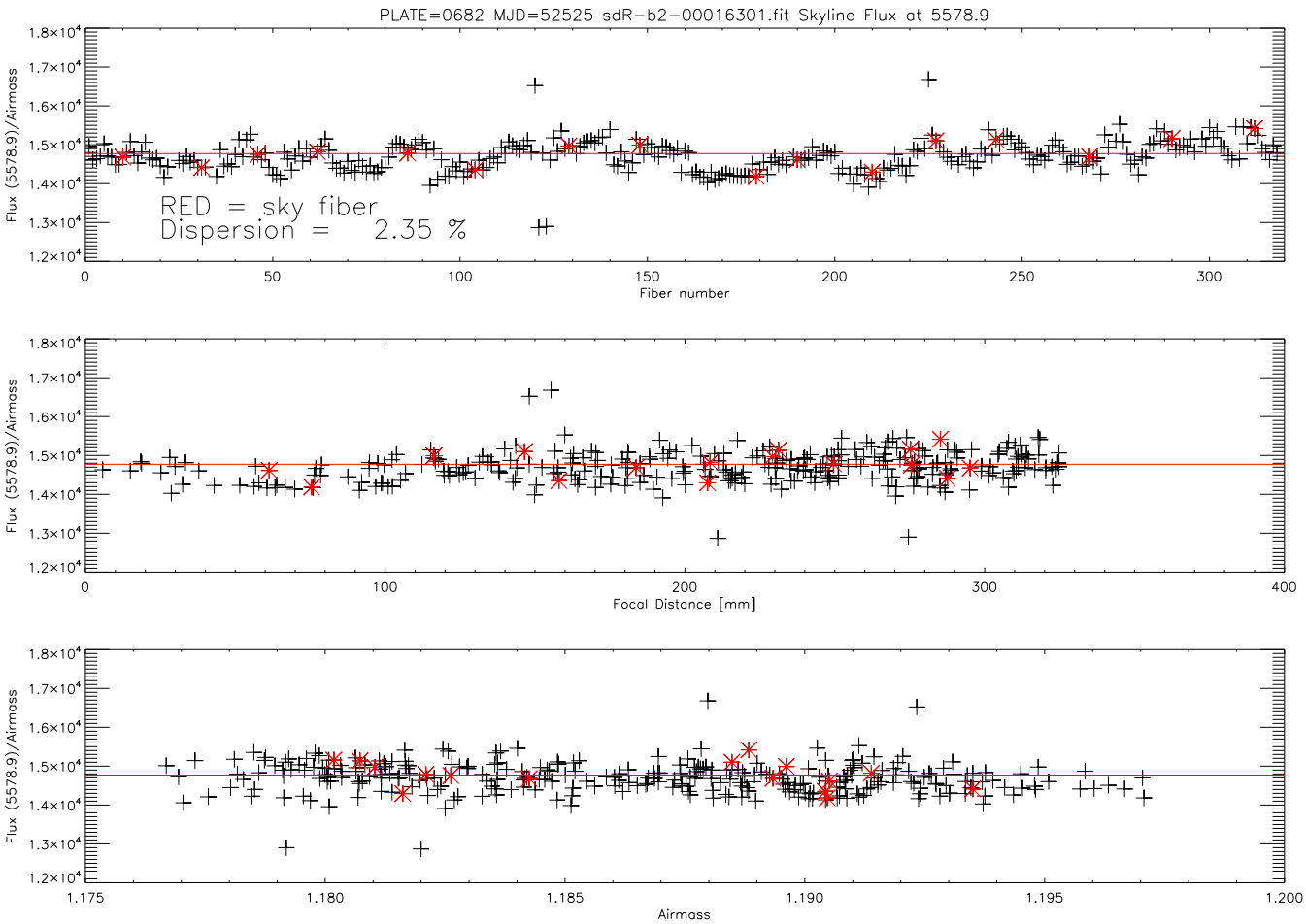

PLATE=0682 MJD=52525 sdR-b2-00016301.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

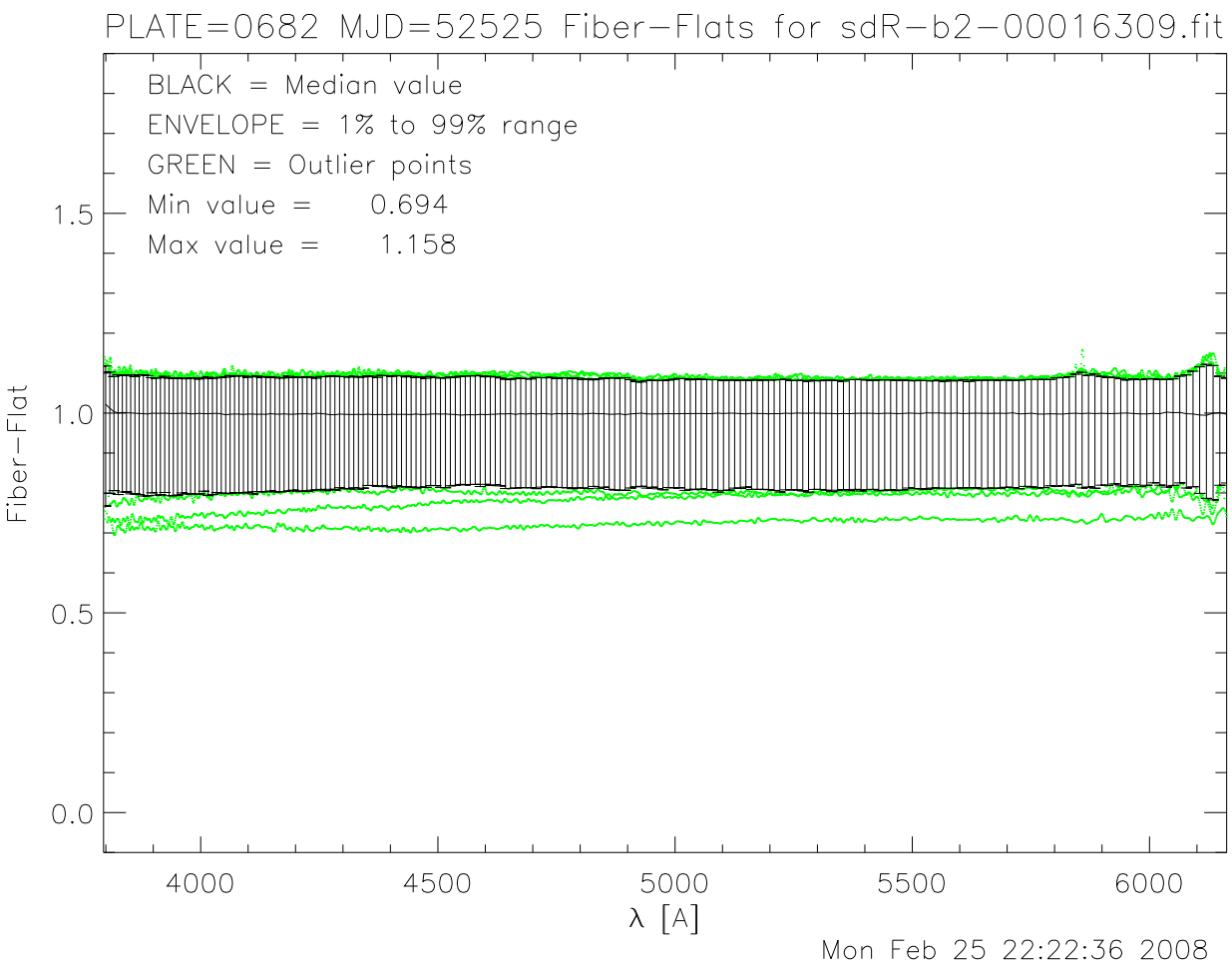

PLATE=0682 MJD=52525 sdR-b2-00016301.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

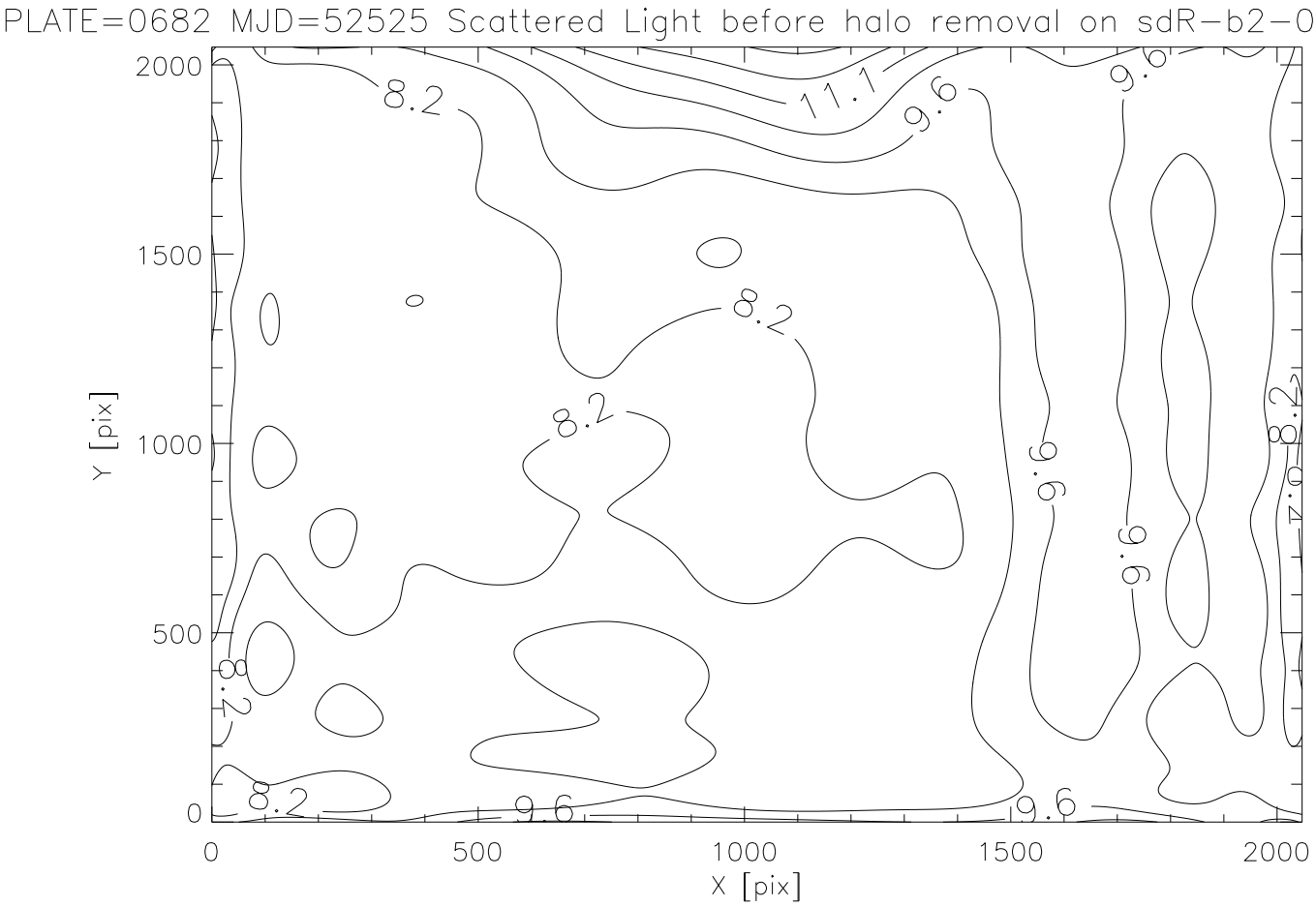

PLATE=0682 MJD=52525 sdR-b2-00016301.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

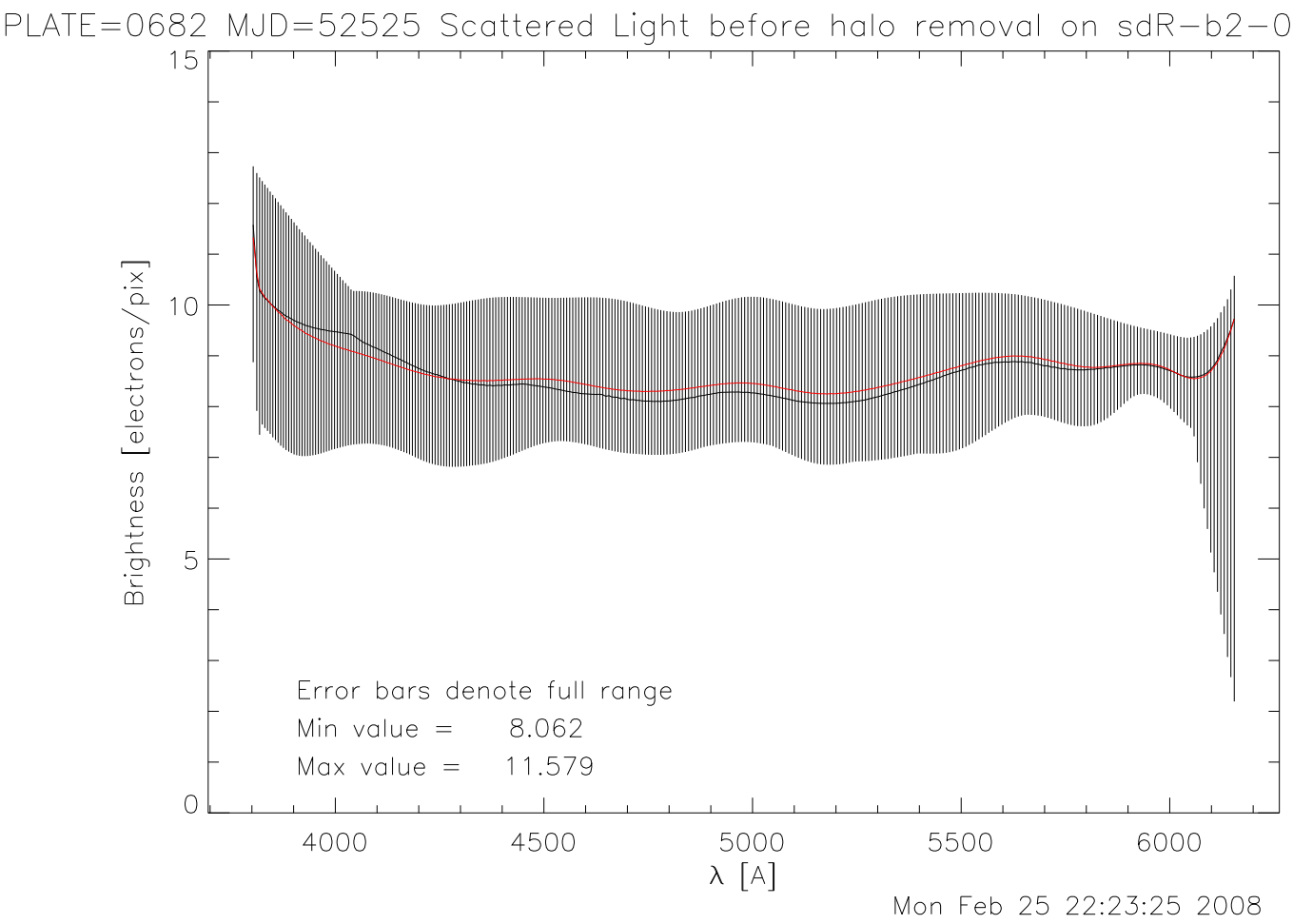

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b2-00016301.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

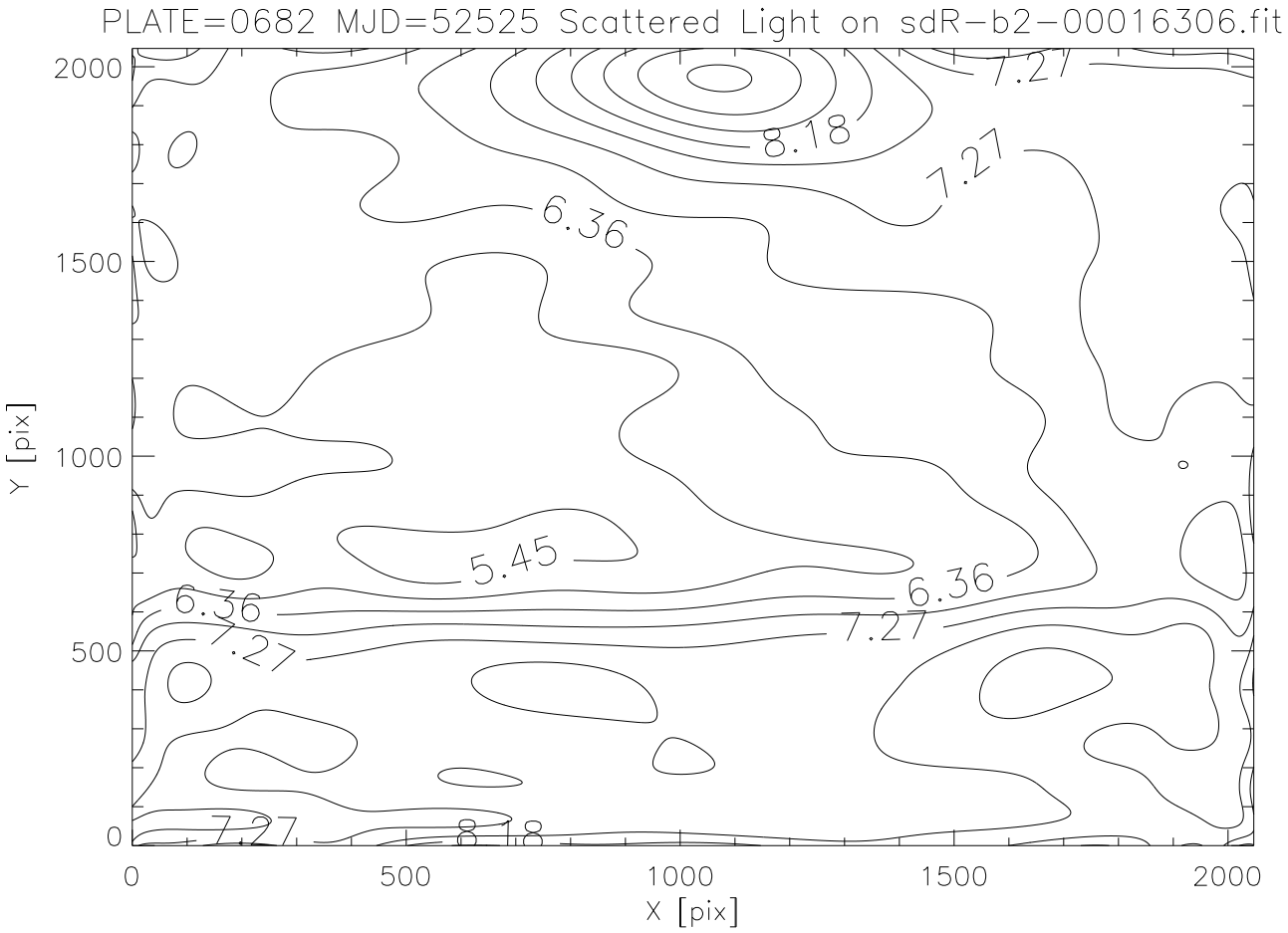

PLATE=0682 MJD=52525 sdR-b2-00016301.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 6.42 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

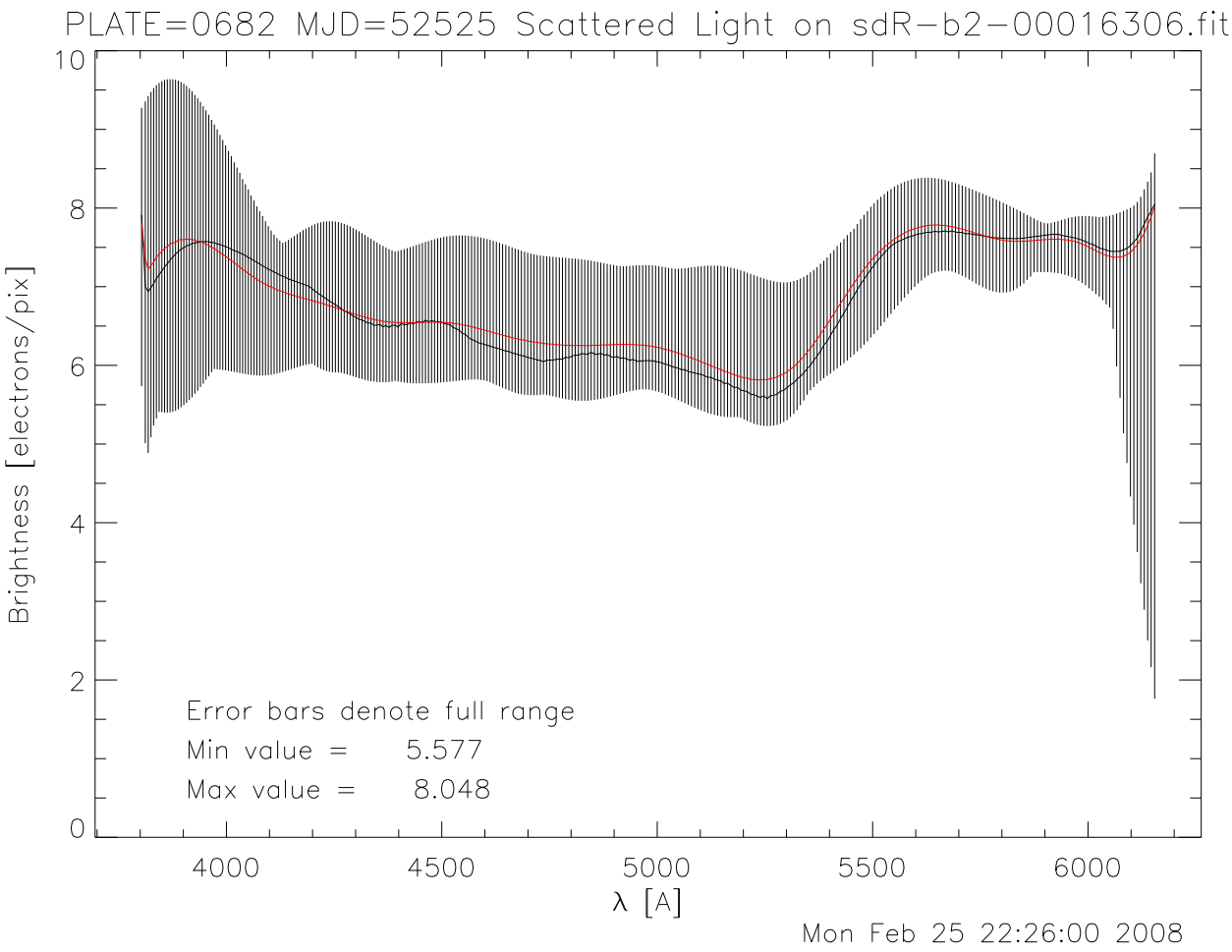

PLATE=0682 MJD=52525 sdR-b2-00016301.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.35 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

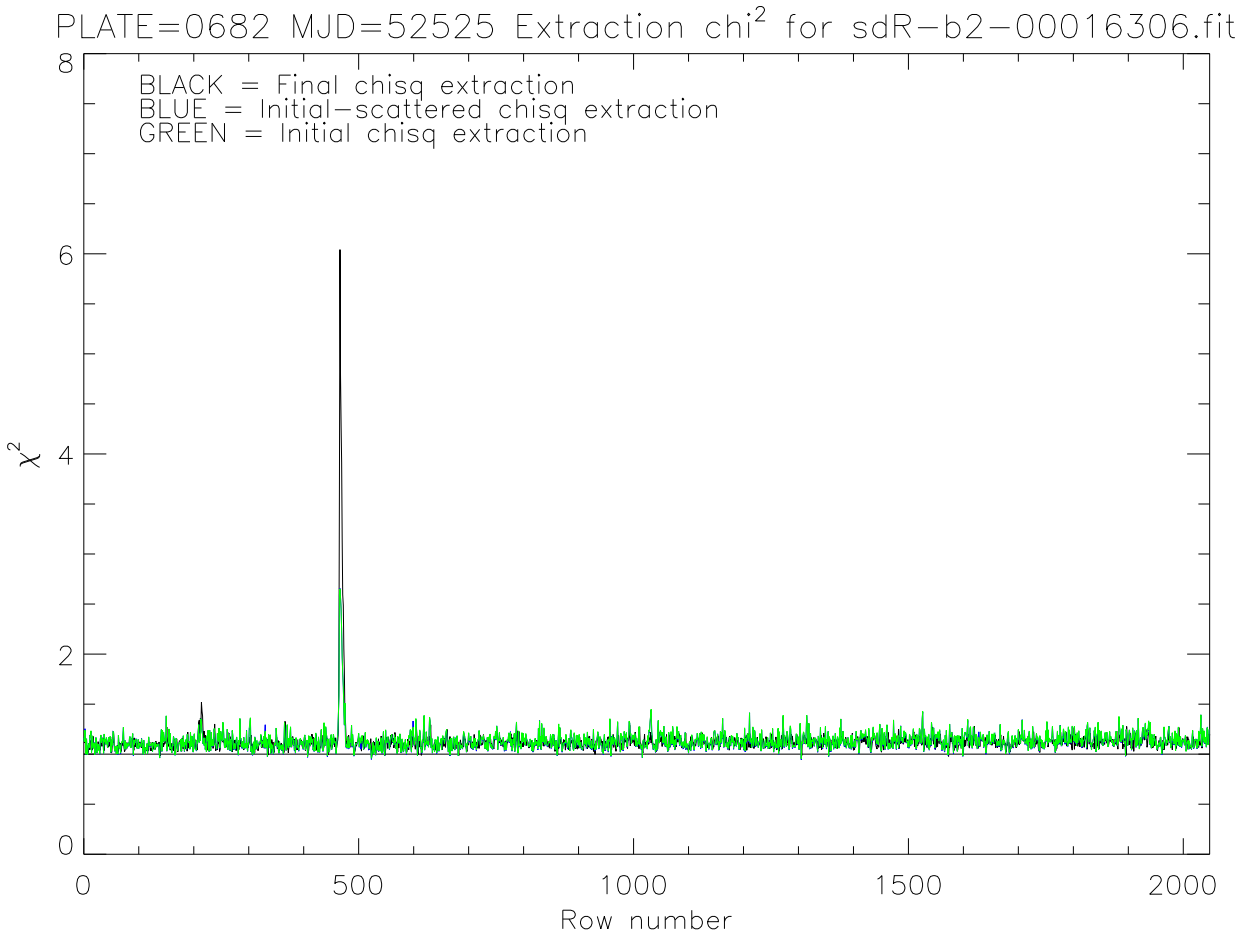

PLATE=0682 MJD=52525 Fiber−Flats for sdR−b2−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.694
Max value = 1.158
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:22:36 2008

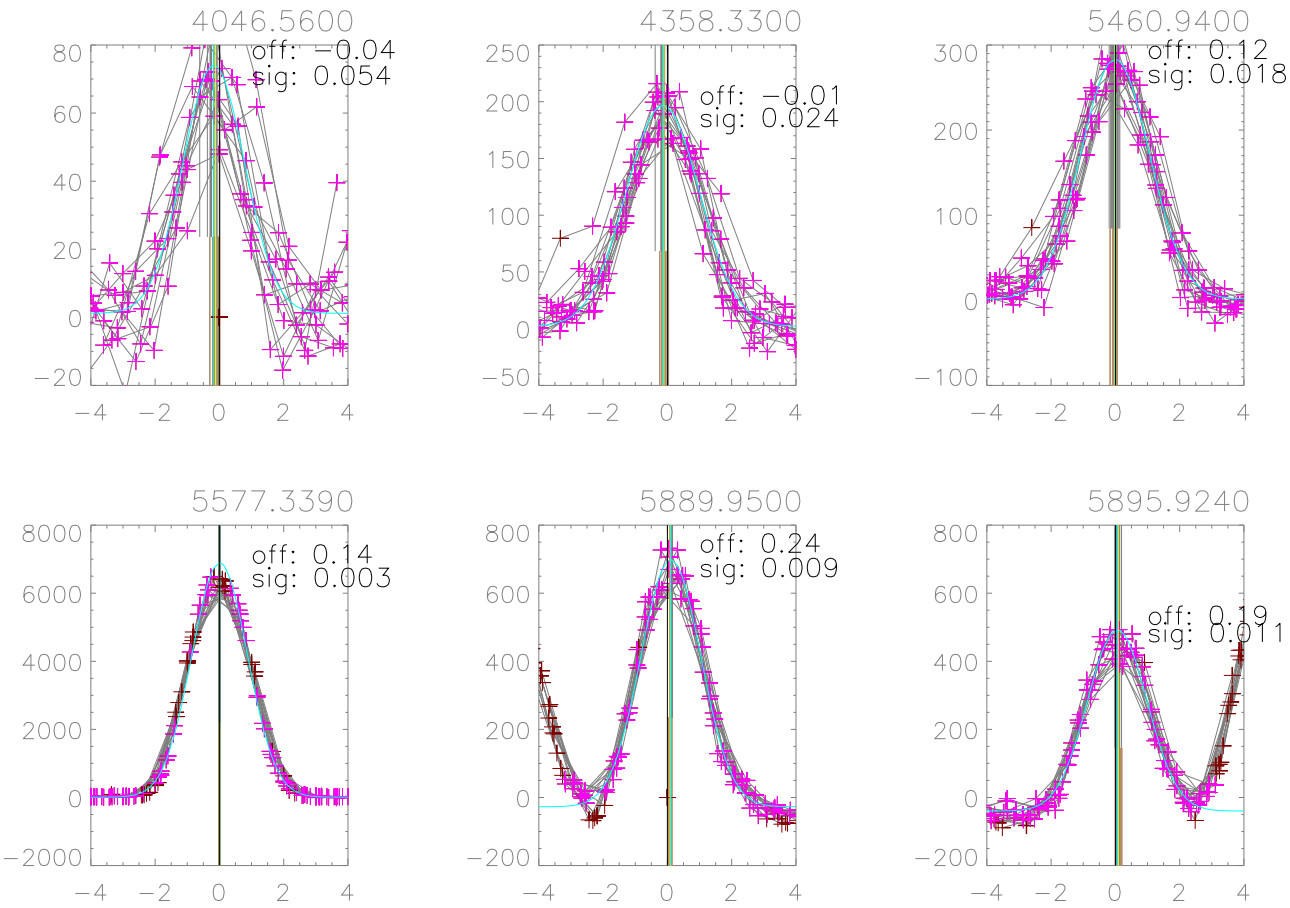

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR−b2−00016306.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
8.2
11.1
9.6
0
8.2
8.2
9.6
9.6
9.6
8.2
8.2
8.2
9.6
9.6

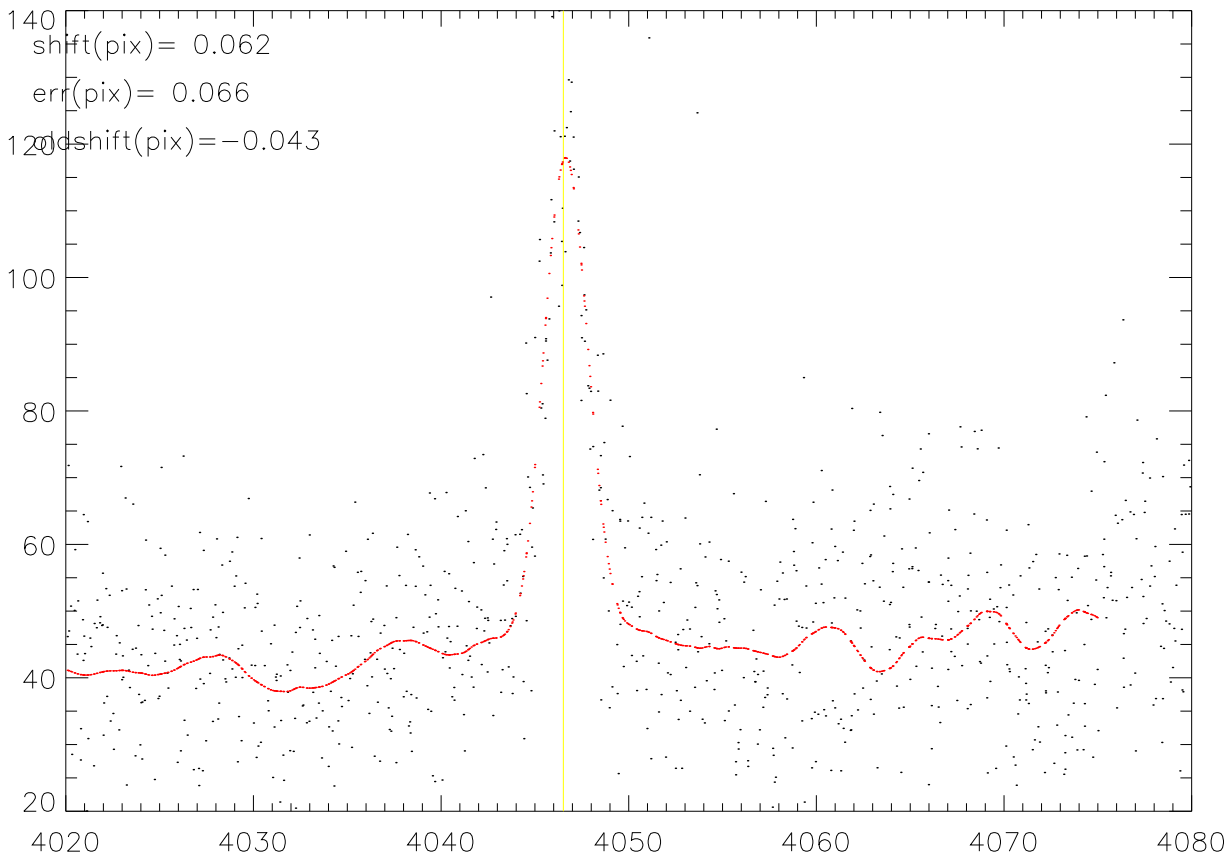

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b2-00016306.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.062
Max value = 11.579
Mon Feb 25 22:23:25 2008

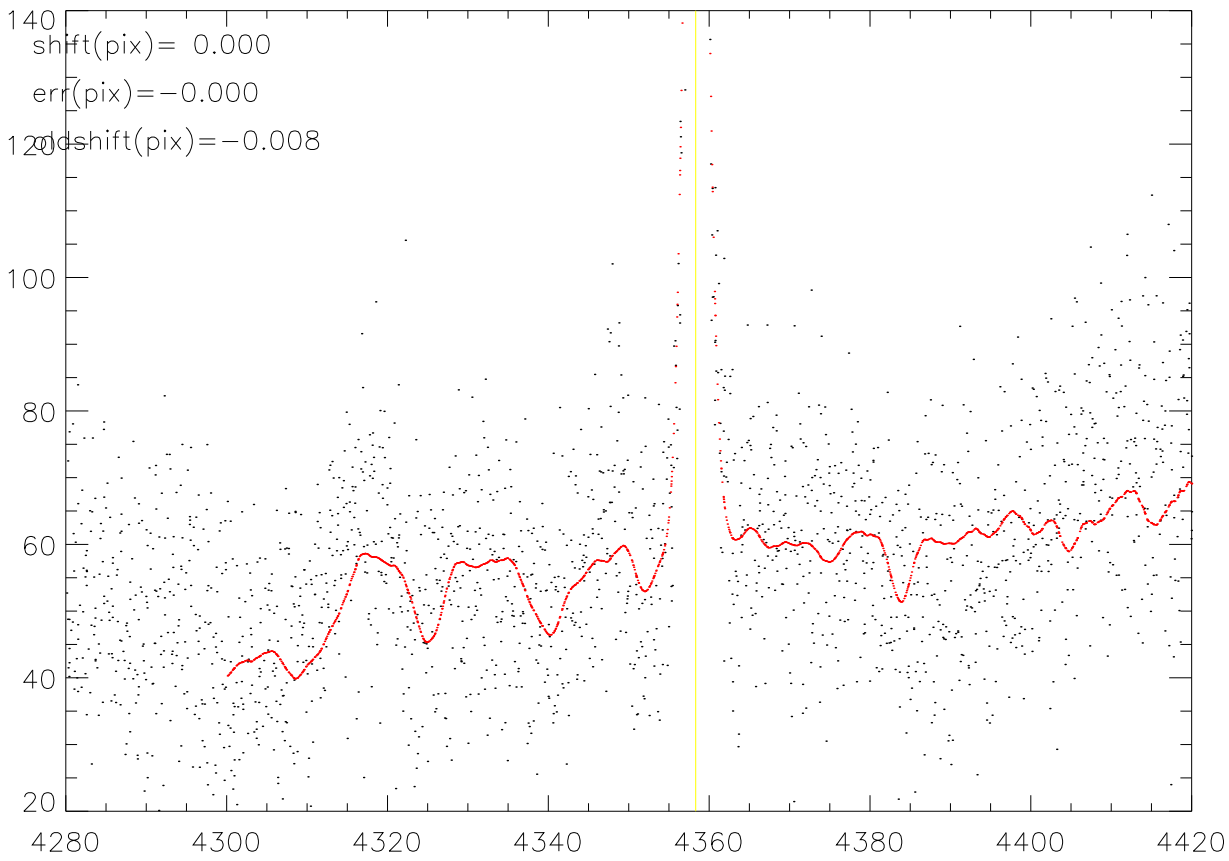

PLATE=0682 MJD=52525 Scattered Light on sdR-b2-00016306.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.27
8.18
6.36
5.45

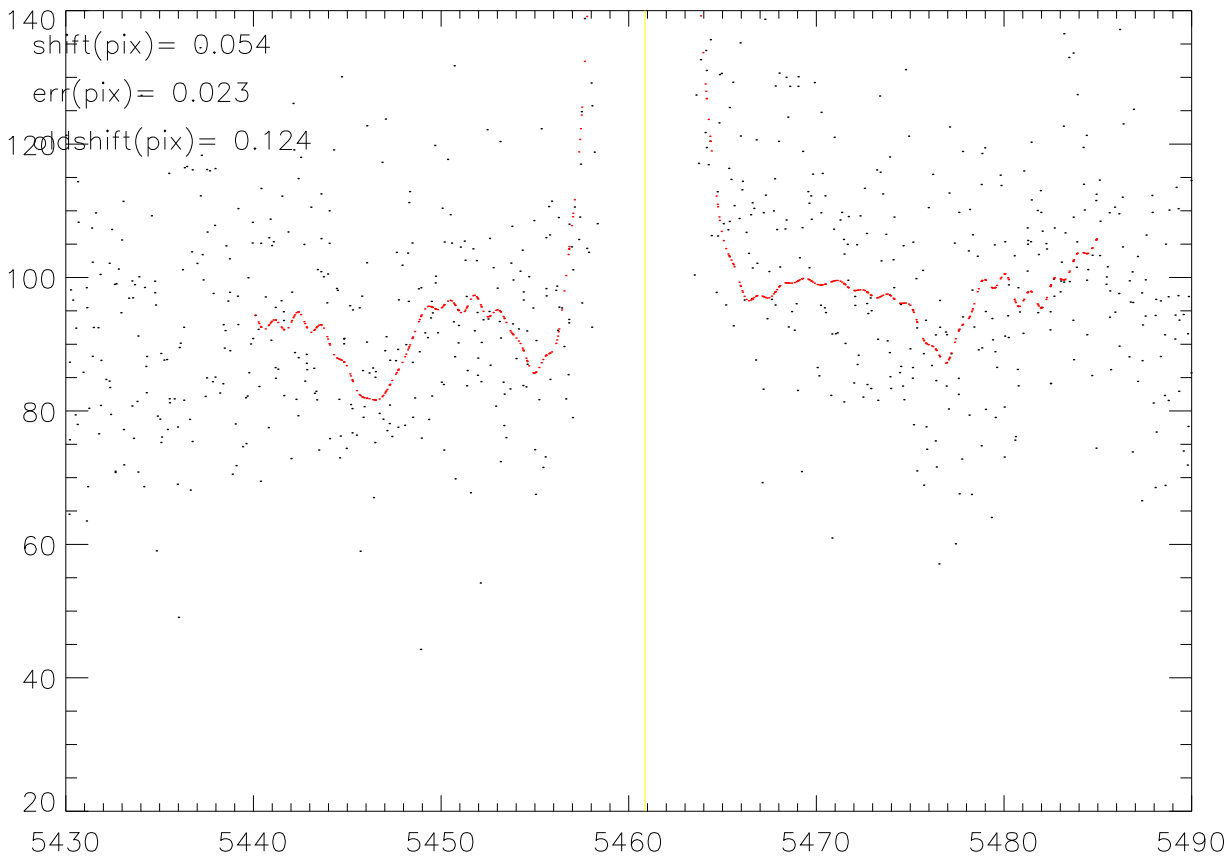

PLATE=0682 MJD=52525 Scattered Light on sdR-b2-00016306.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.577
Max value = 8.048
Mon Feb 25 22:26:00 2008

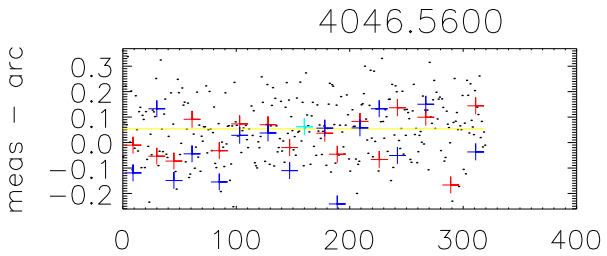

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR-b2-00016306.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
8
0
500
1000
1500
2000
Row number

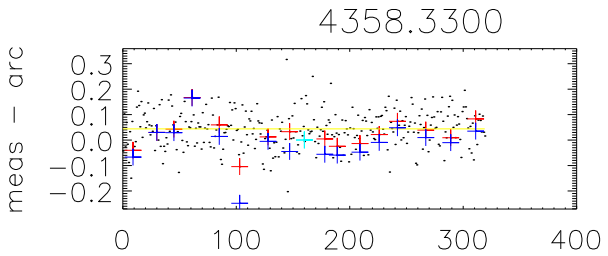

4046.5600
off: −0.04
sig: 0.054
4358.3300
off: −0.01
sig: 0.024
5460.9400
off: 0.12
sig: 0.018
5577.3390
off: 0.14
sig: 0.003
5889.9500
off: 0.24
sig: 0.009
5895.9240
off: 0.19
sig: 0.011

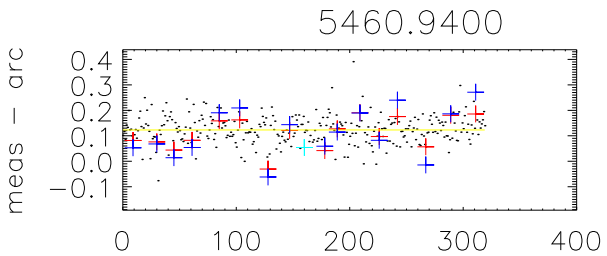

shift(pix)= 0.062
err(pix)= 0.066
oldshift(pix)=-0.043
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

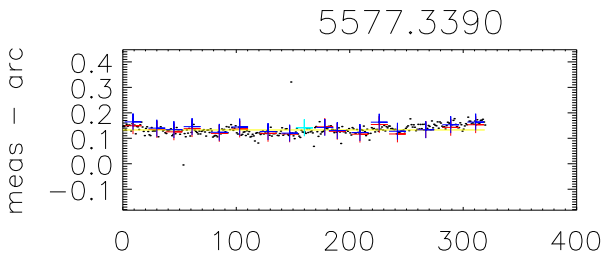

shift(pix)= 0.000
err(pix)=−0.000
oldshift(pix)=−0.008
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

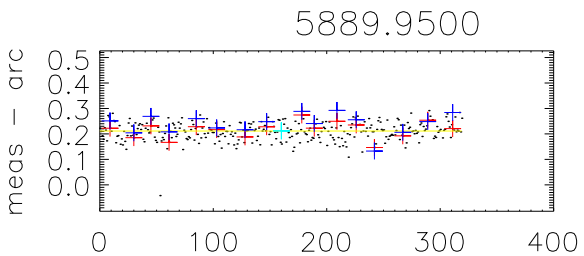

shift(pix)= 0.054
err(pix)= 0.023
oldshift(pix)= 0.124
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

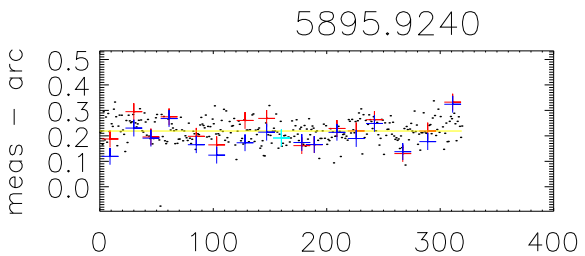

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

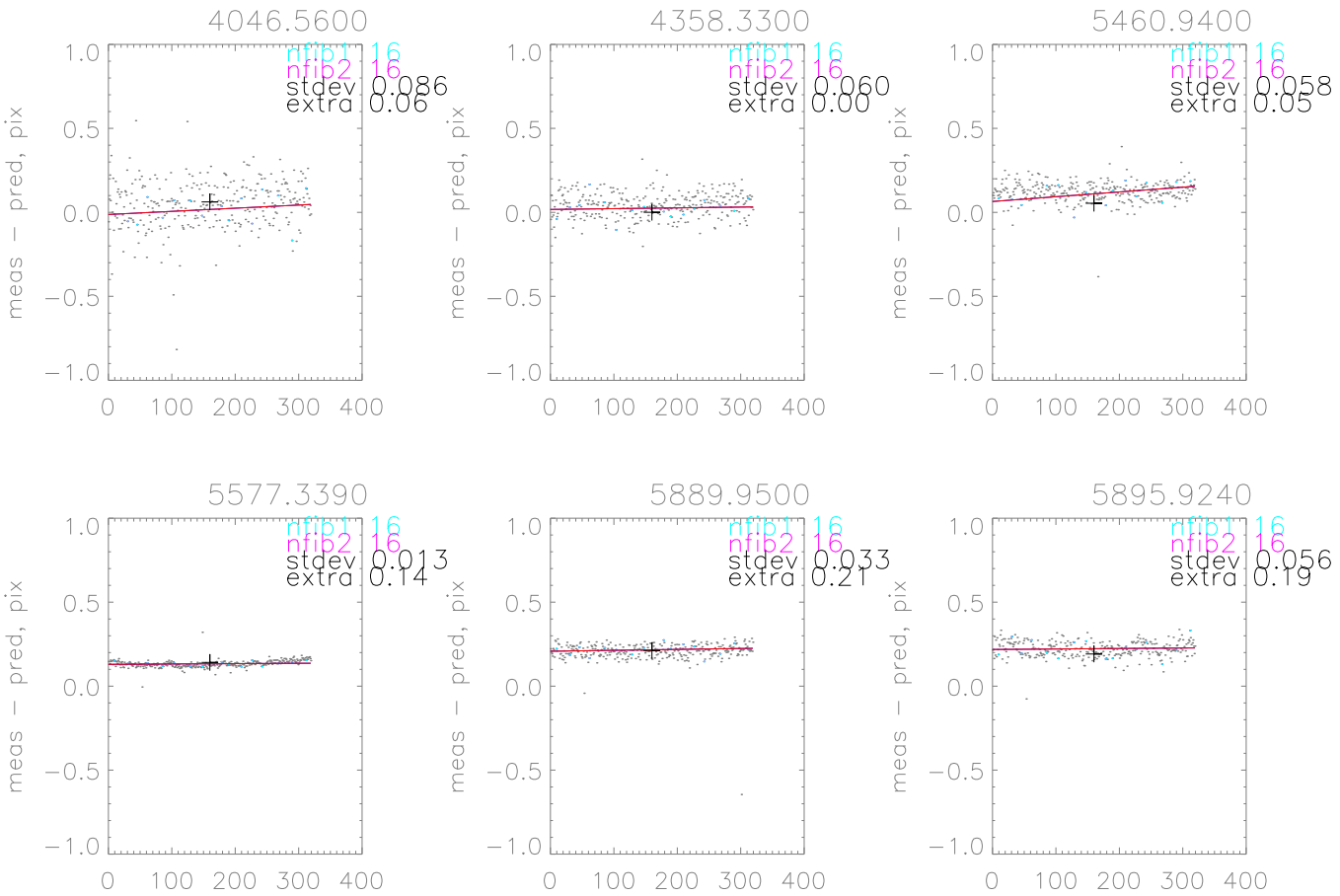

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

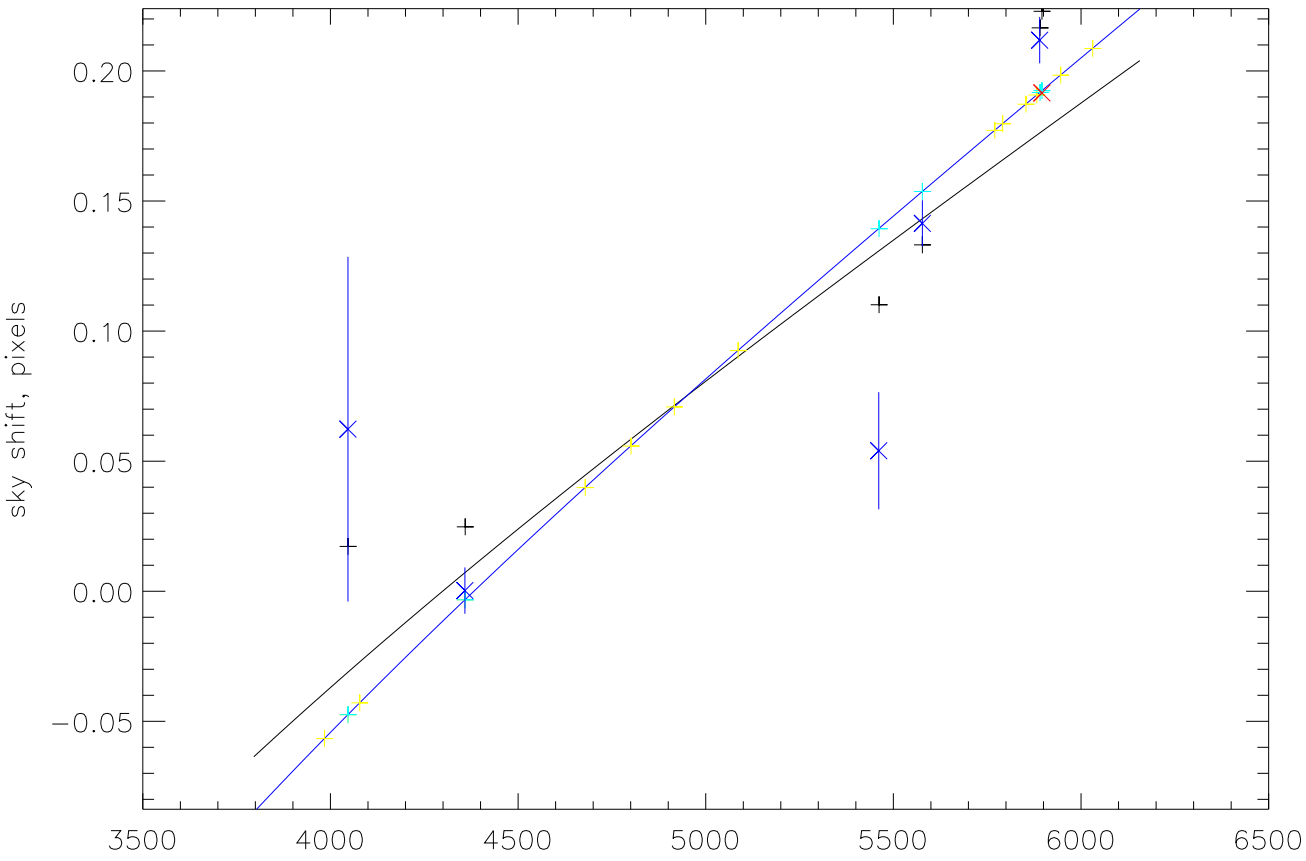

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

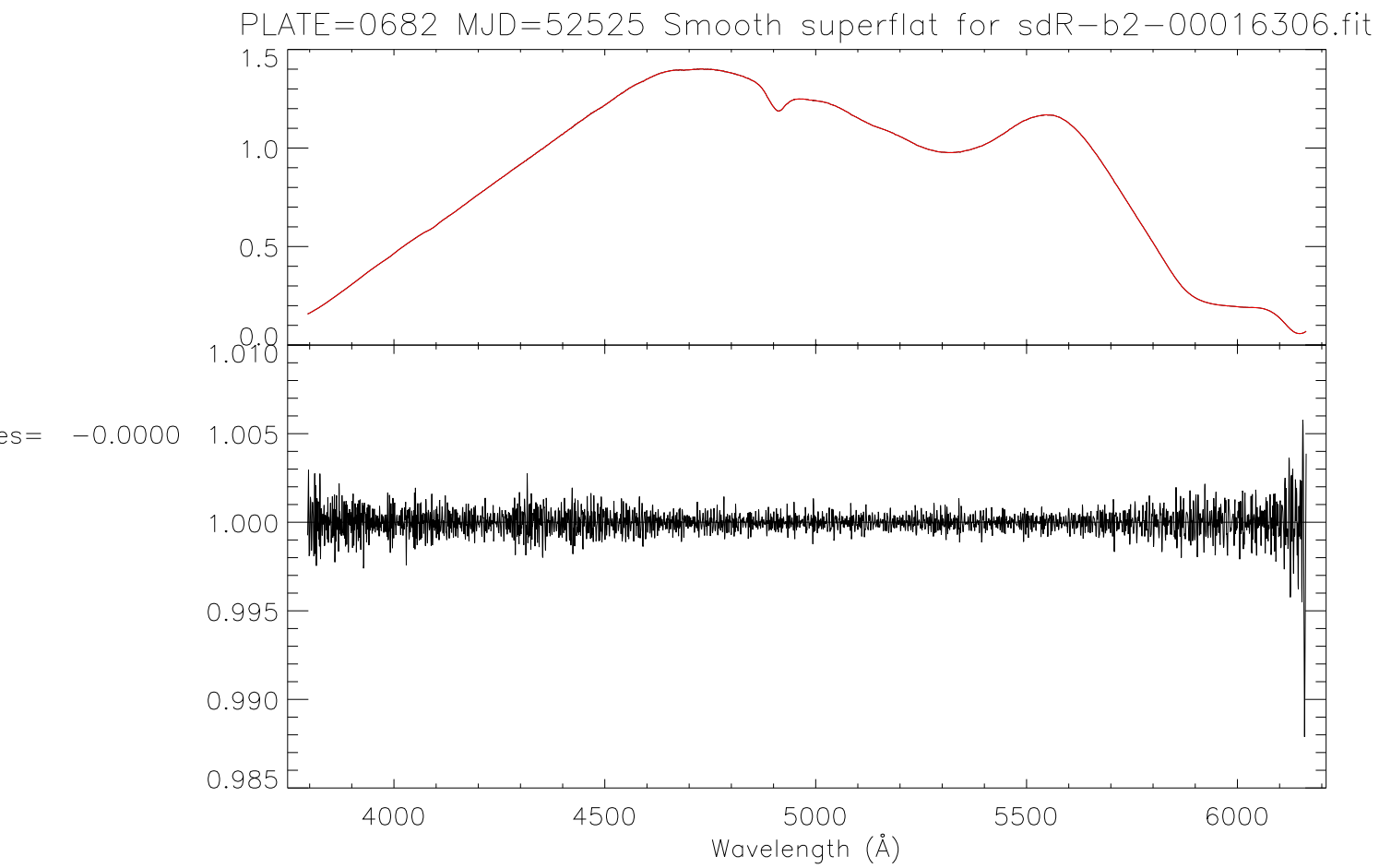

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

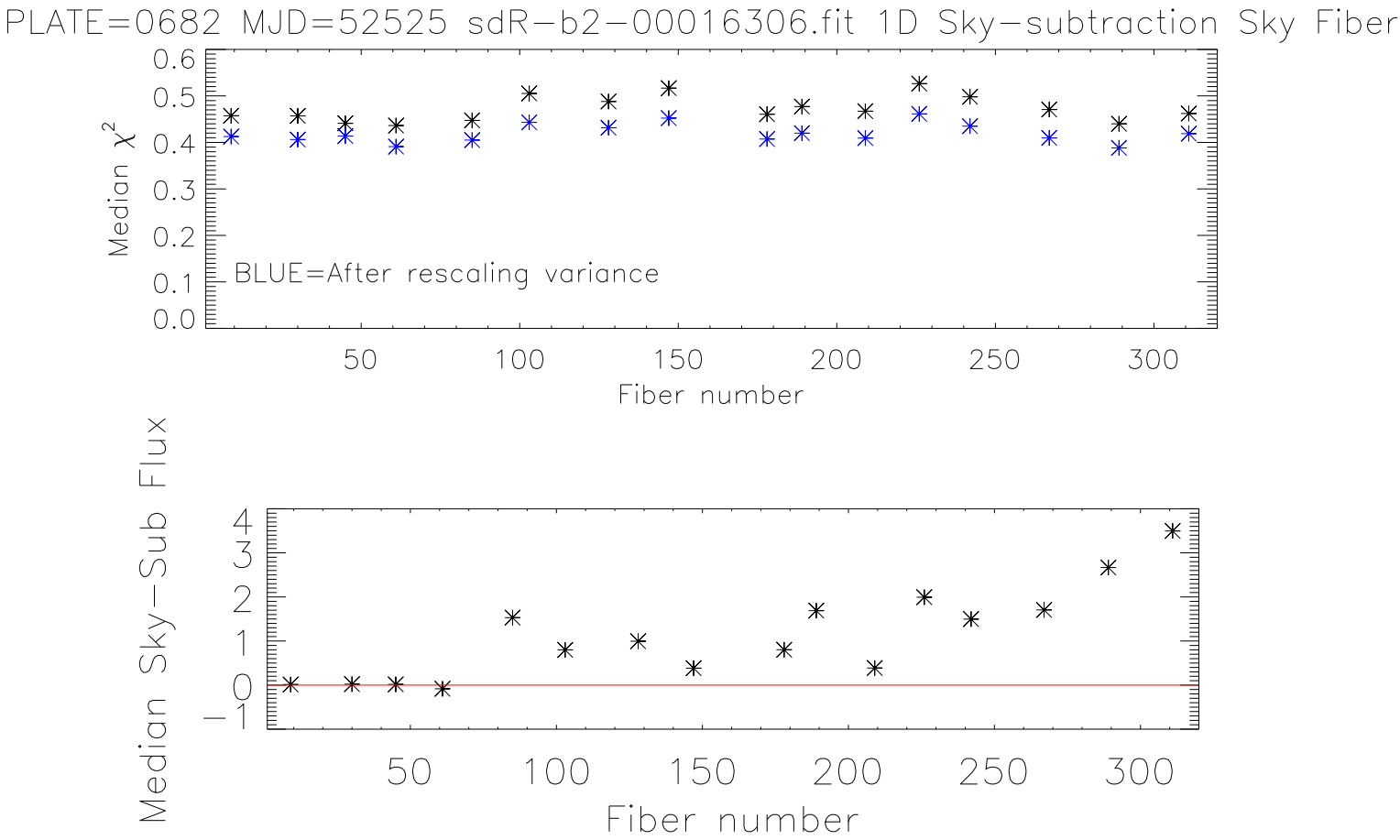

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

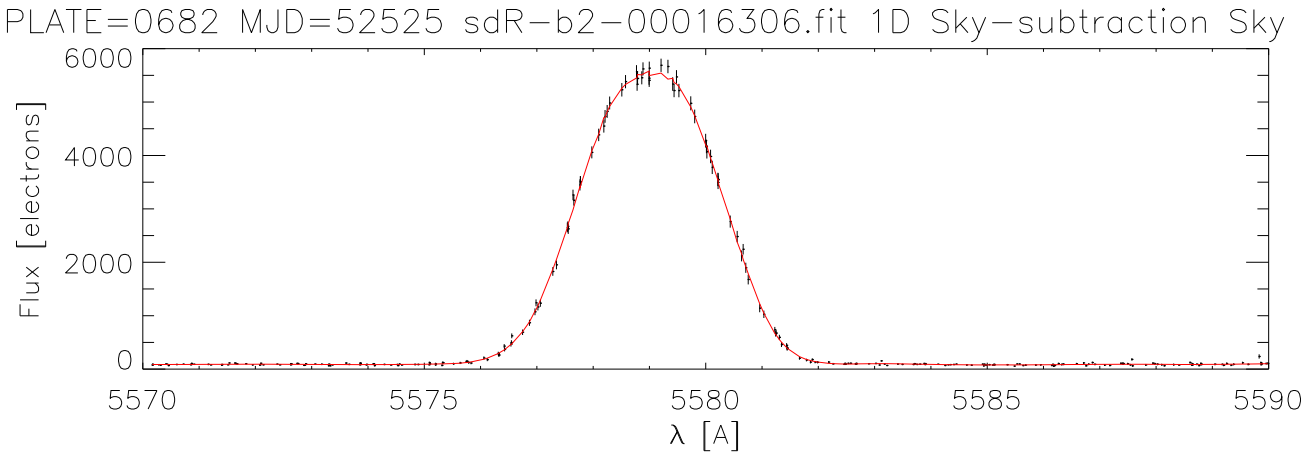

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

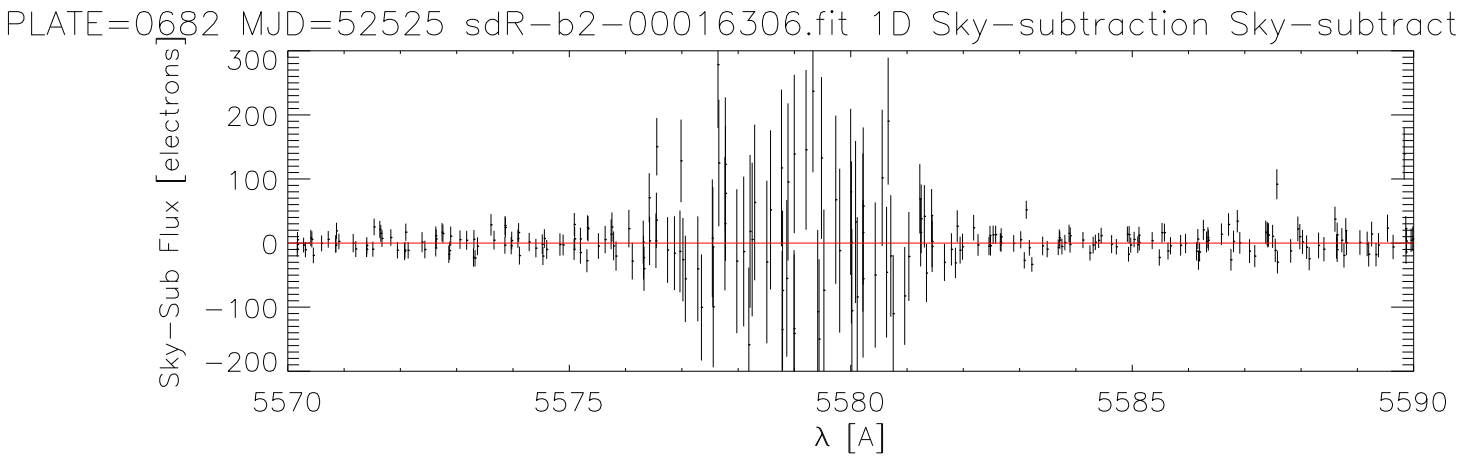

4046.5600
nfib1 16
nfib2 16
stdev 0.086
extra 0.06
4358.3300
nfib1 16
nfib2 16
stdev 0.060
extra 0.00
5460.9400
nfib1 16
nfib2 16
stdev 0.058
extra 0.05
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra 0.14
5889.9500
nfib1 16
nfib2 16
stdev 0.033
extra 0.21
5895.9240
nfib1 16
nfib2 16
stdev 0.056
extra 0.19
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

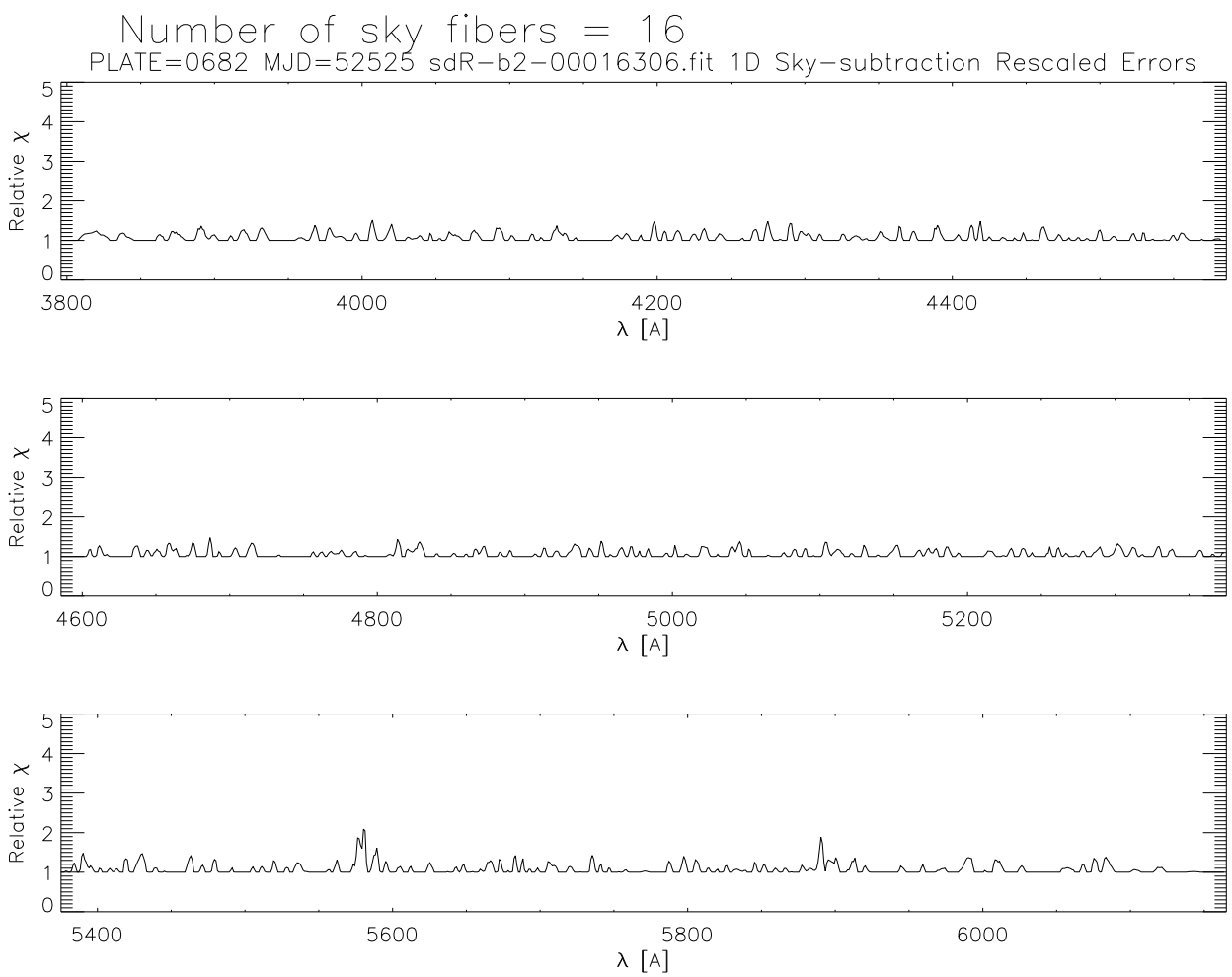

sky shift, pixels
0.20
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

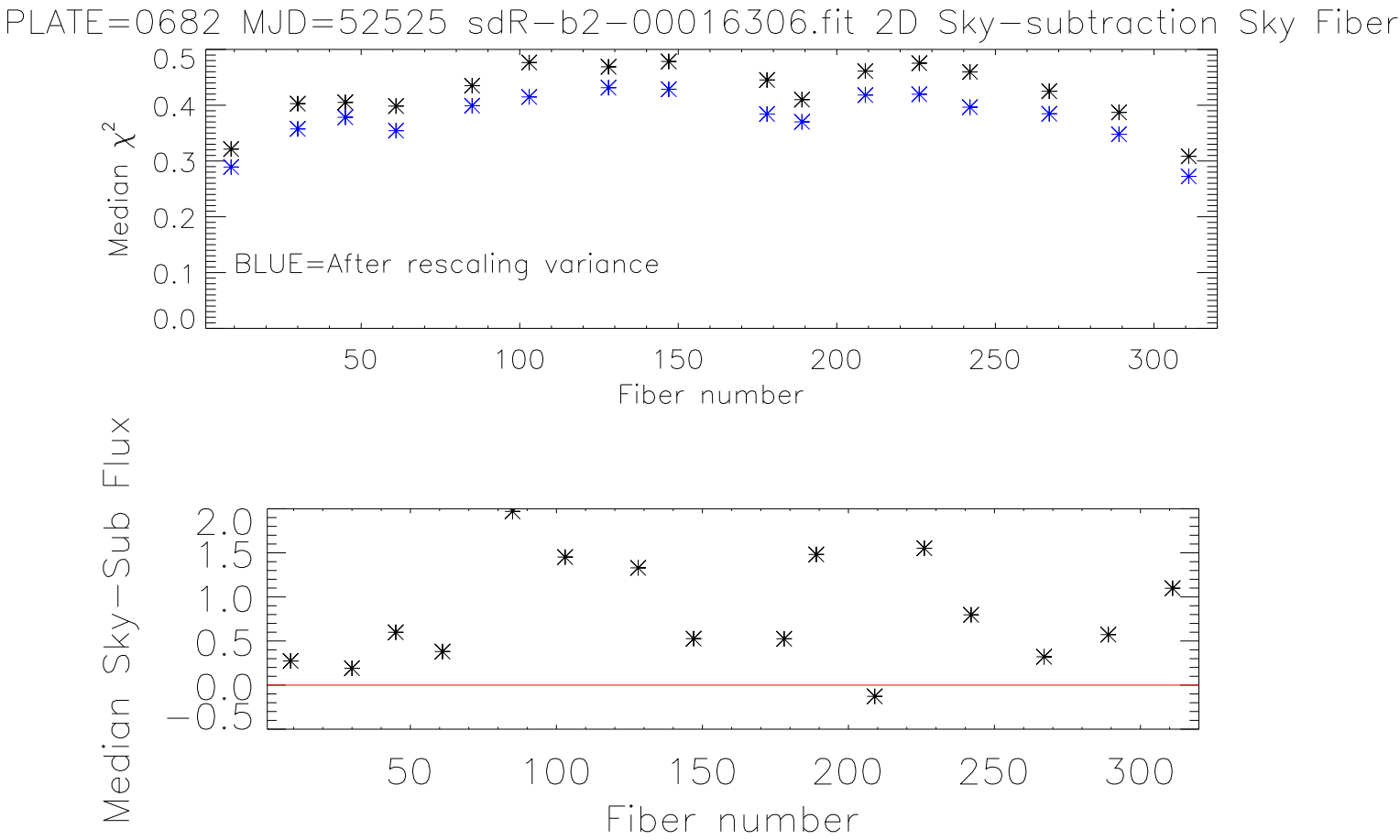

PLATE=0682 MJD=52525 Smooth superflat for sdR-b2-00016306.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

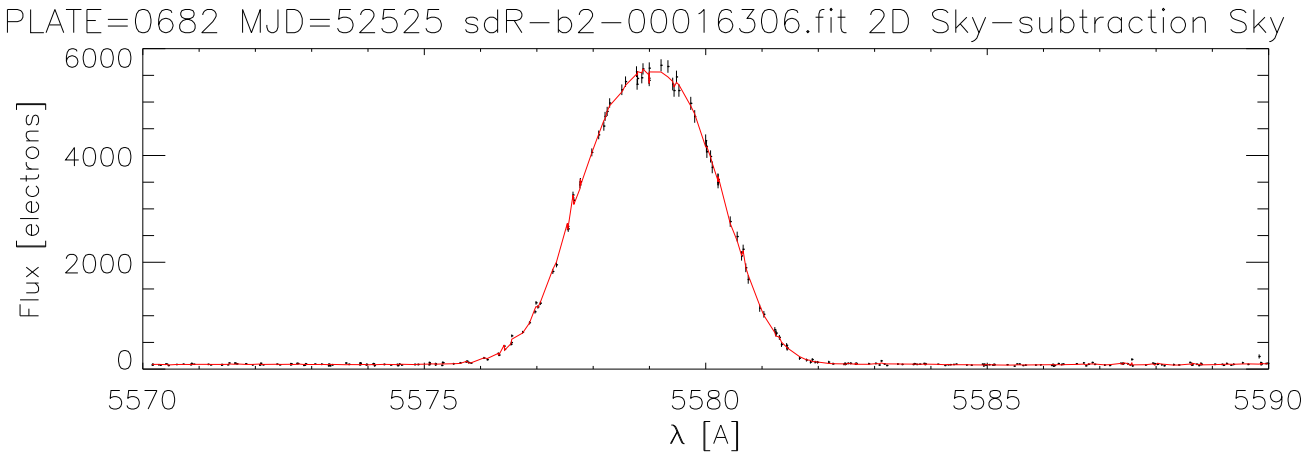

PLATE=0682 MJD=52525 sdR-b2-00016306.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

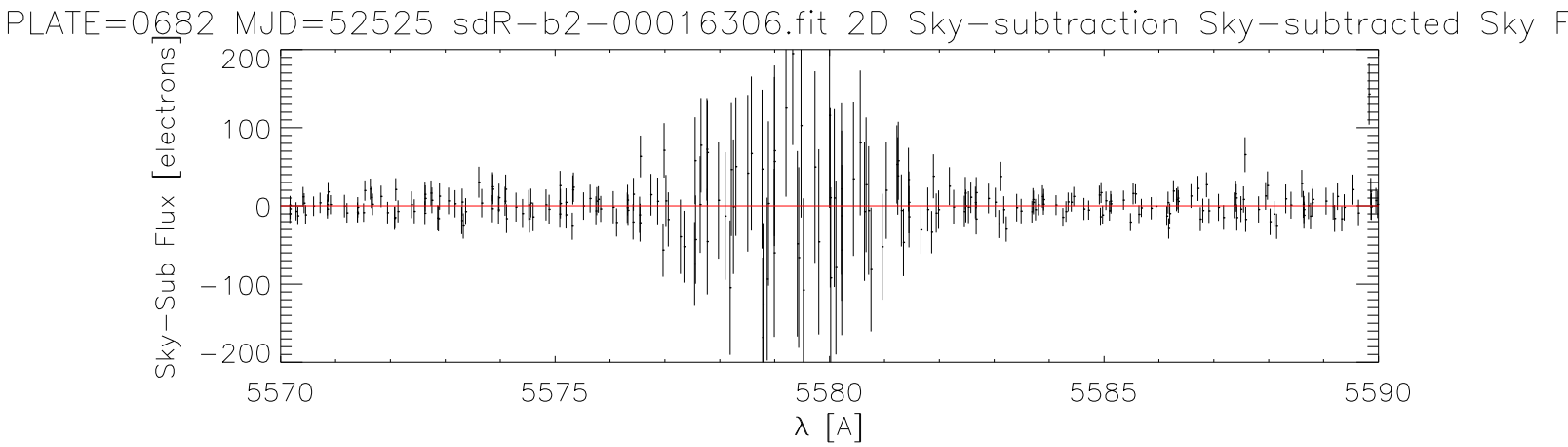

PLATE=0682 MJD=52525 sdR-b2-00016306.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

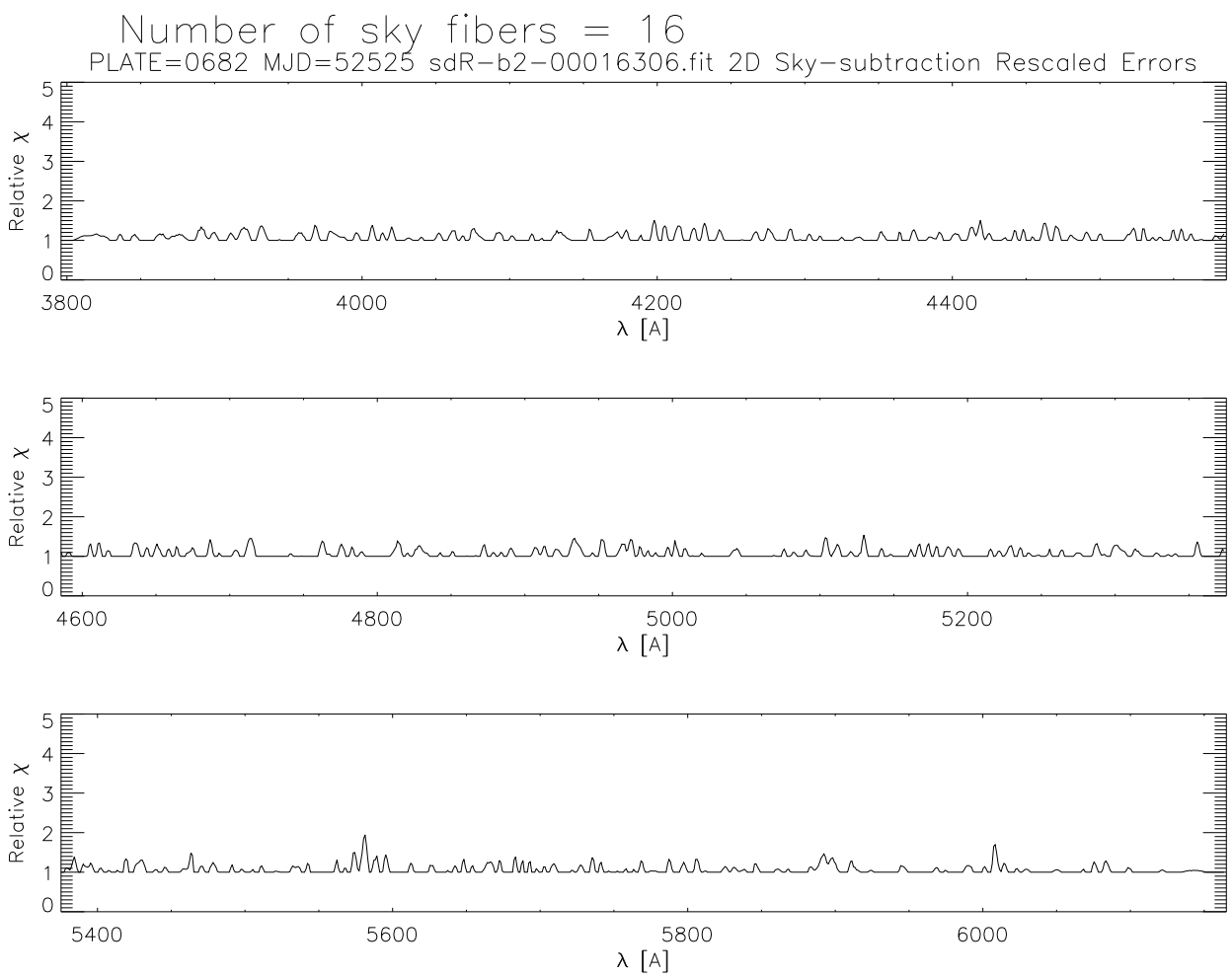

PLATE=0682 MJD=52525 sdR-b2-00016306.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

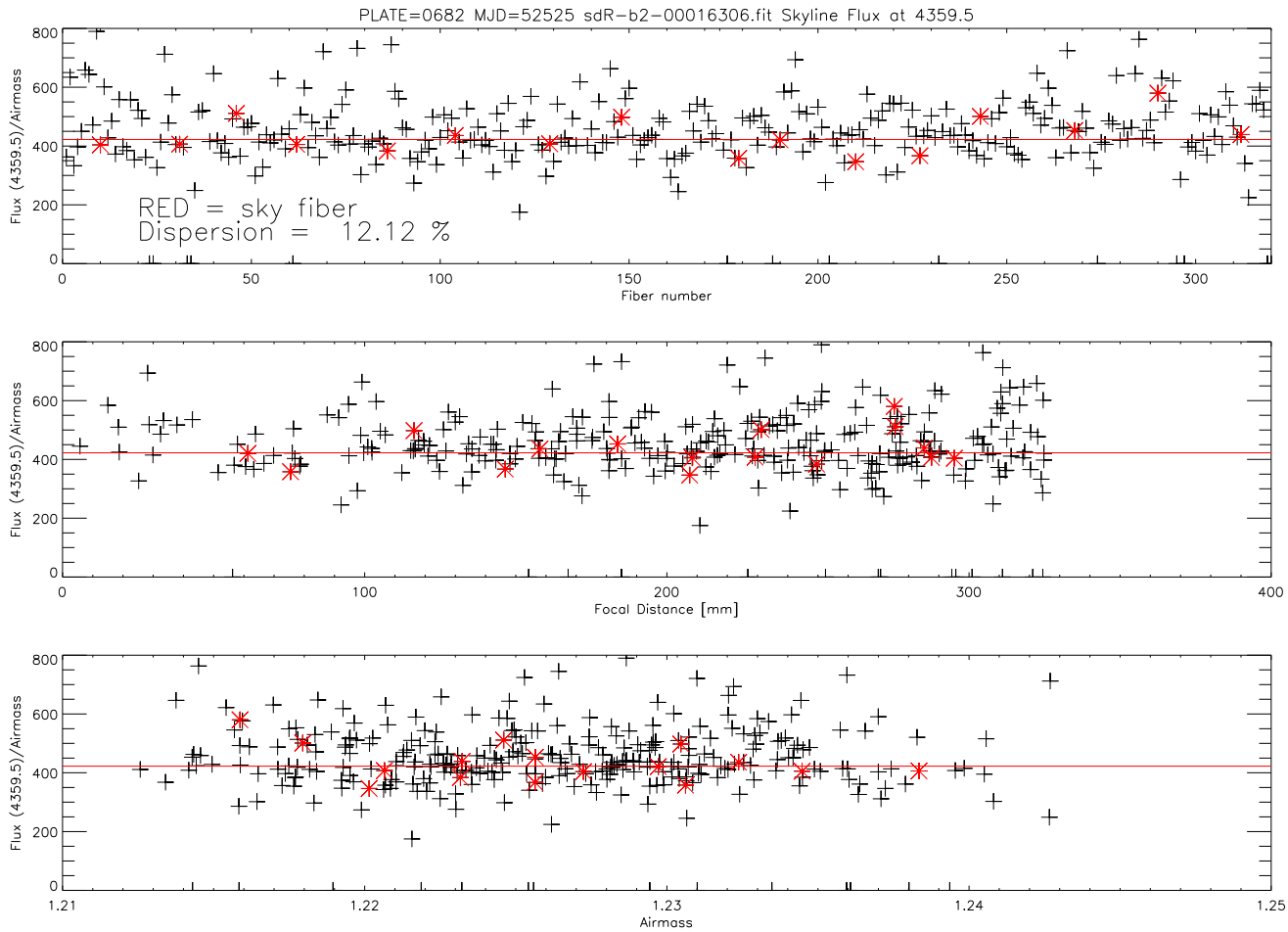

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b2-00016306.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

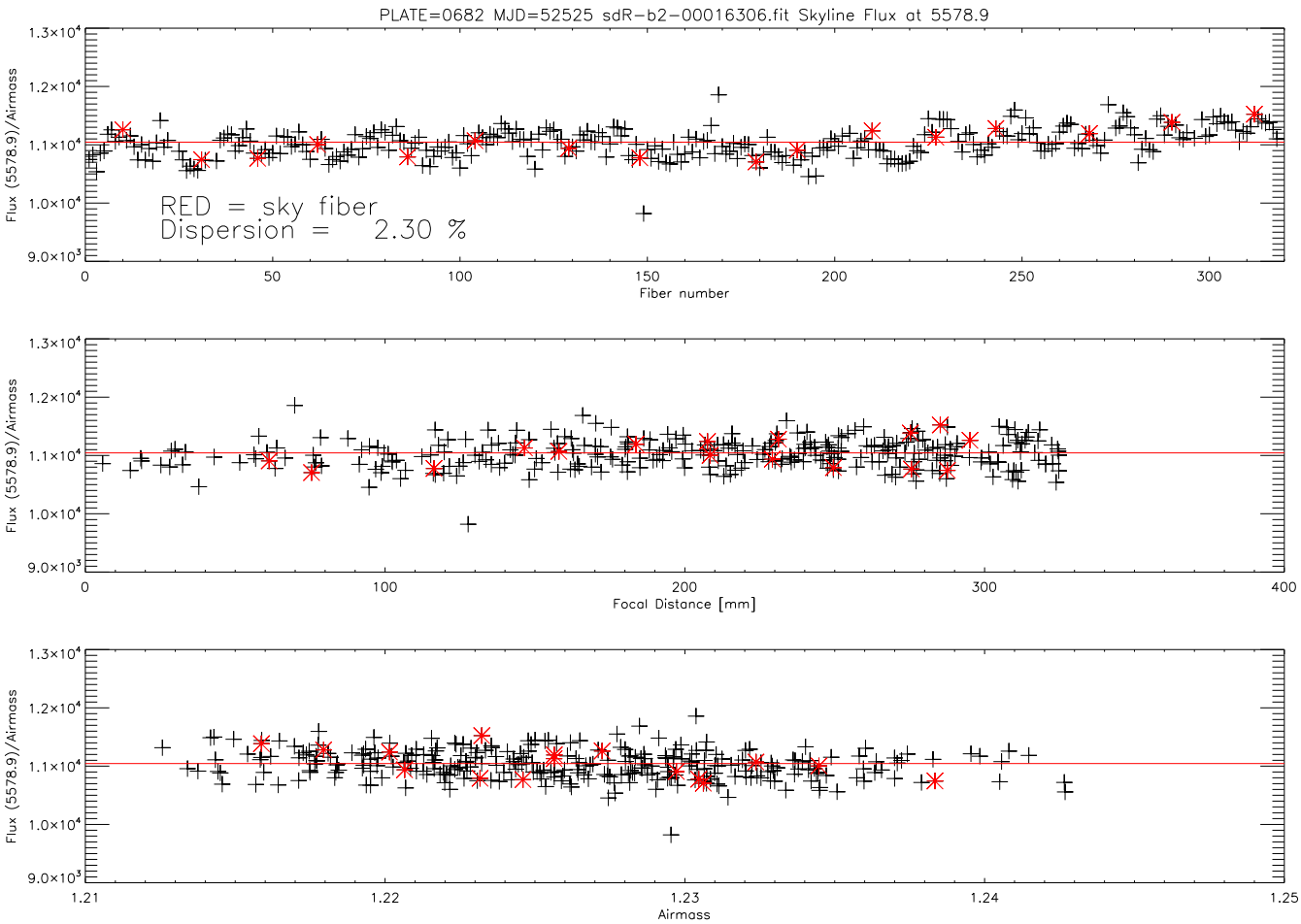

PLATE=0682 MJD=52525 sdR-b2-00016306.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

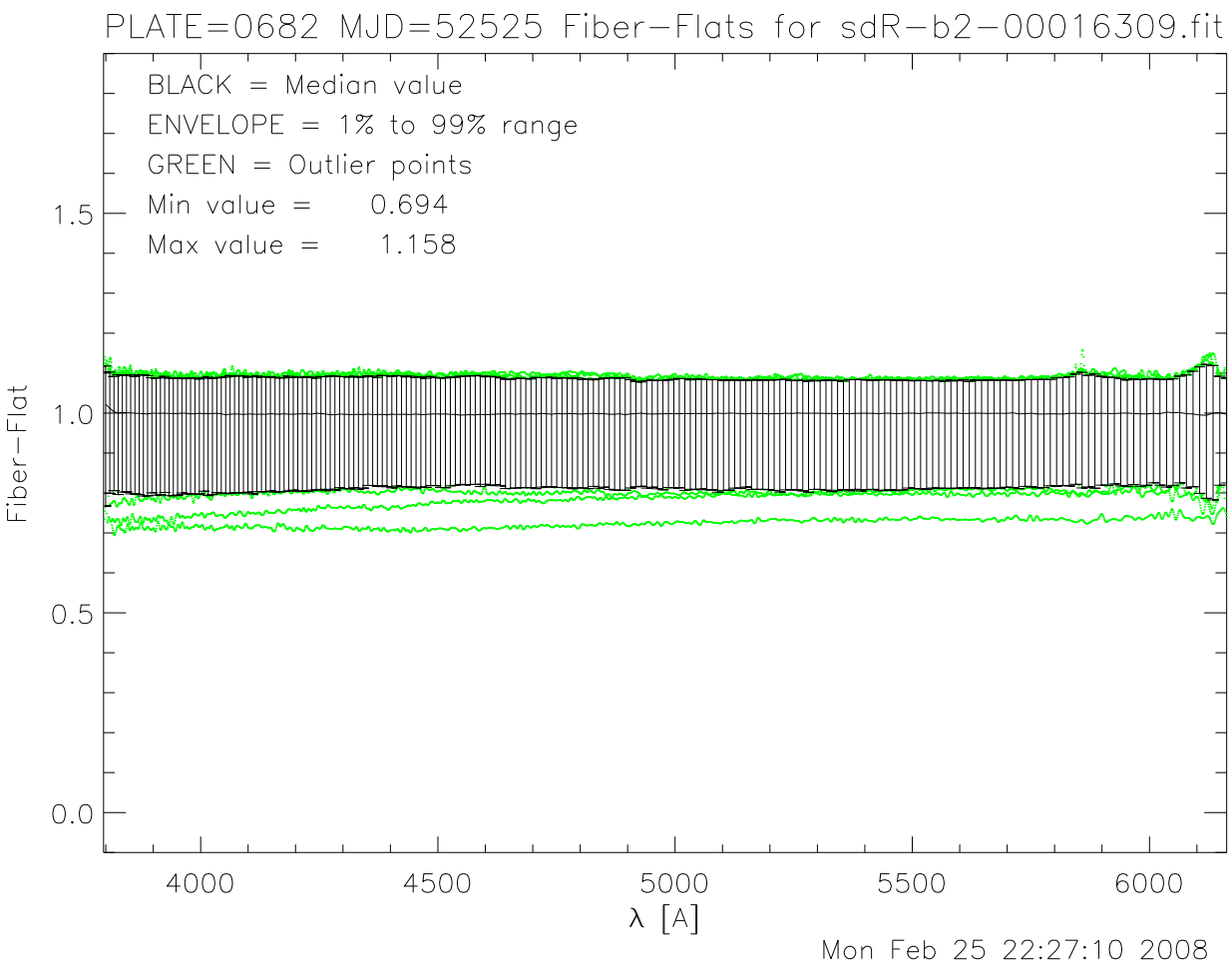

PLATE=0682 MJD=52525 sdR-b2-00016306.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

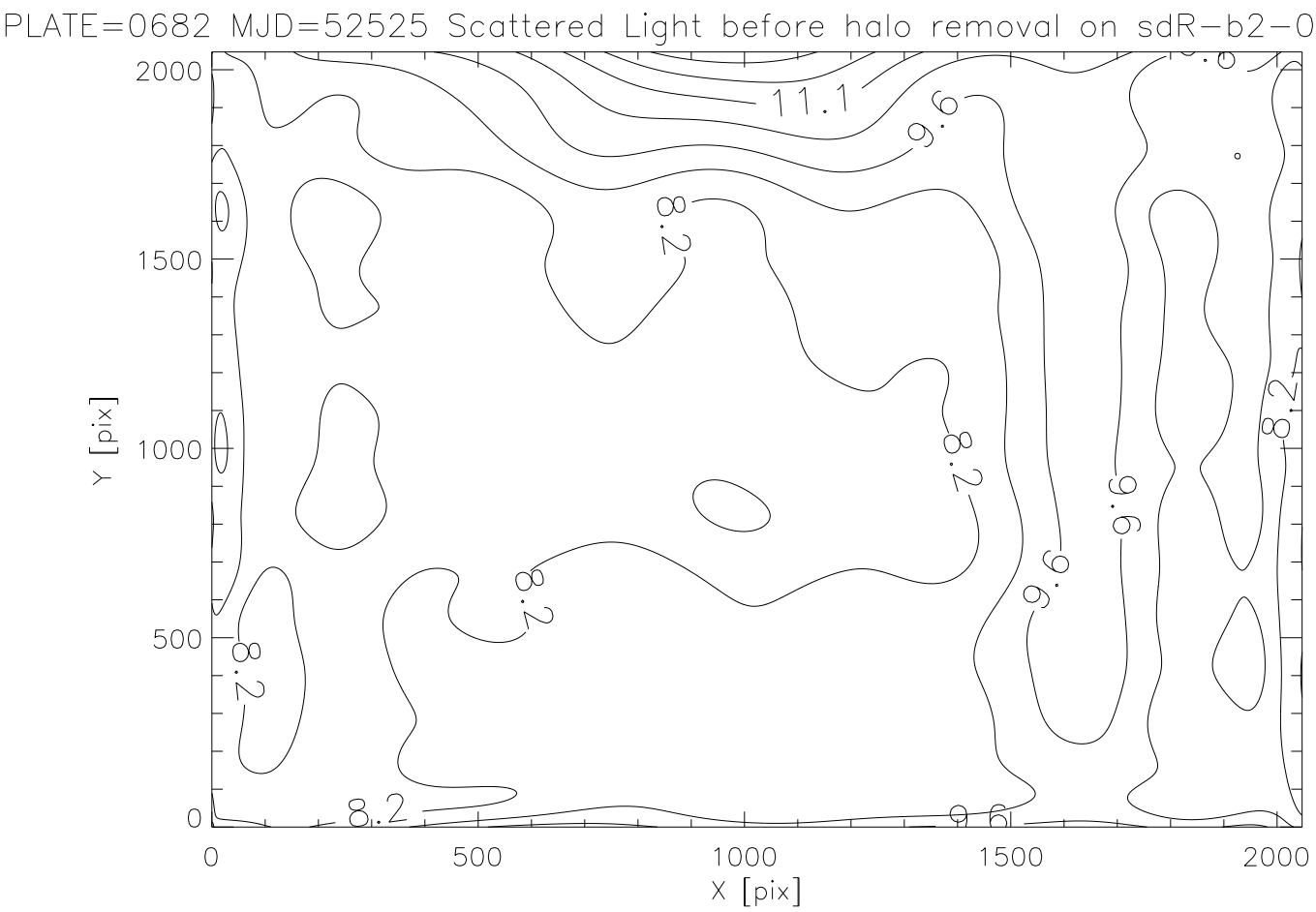

PLATE=0682 MJD=52525 sdR-b2-00016306.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

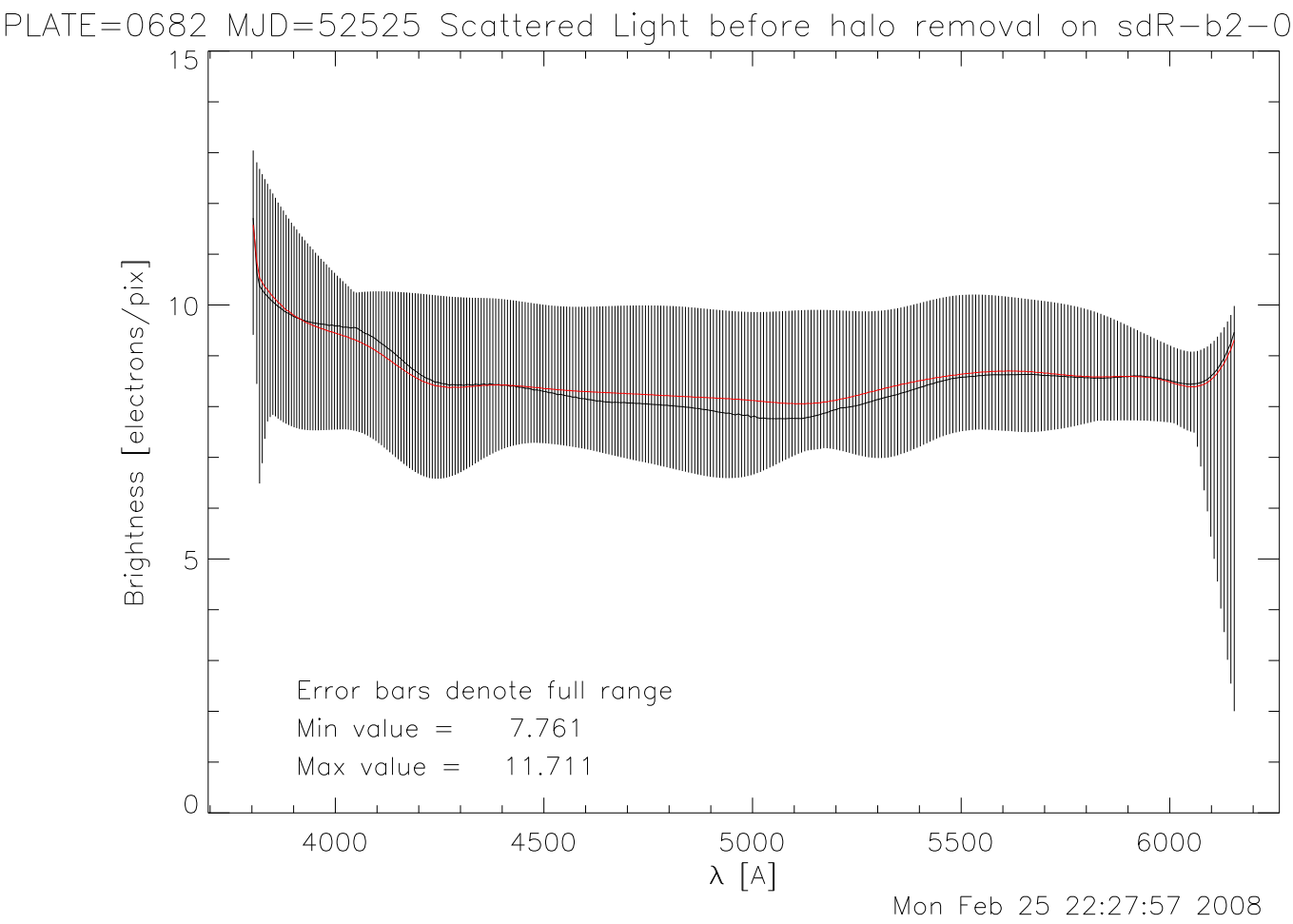

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b2-00016306.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

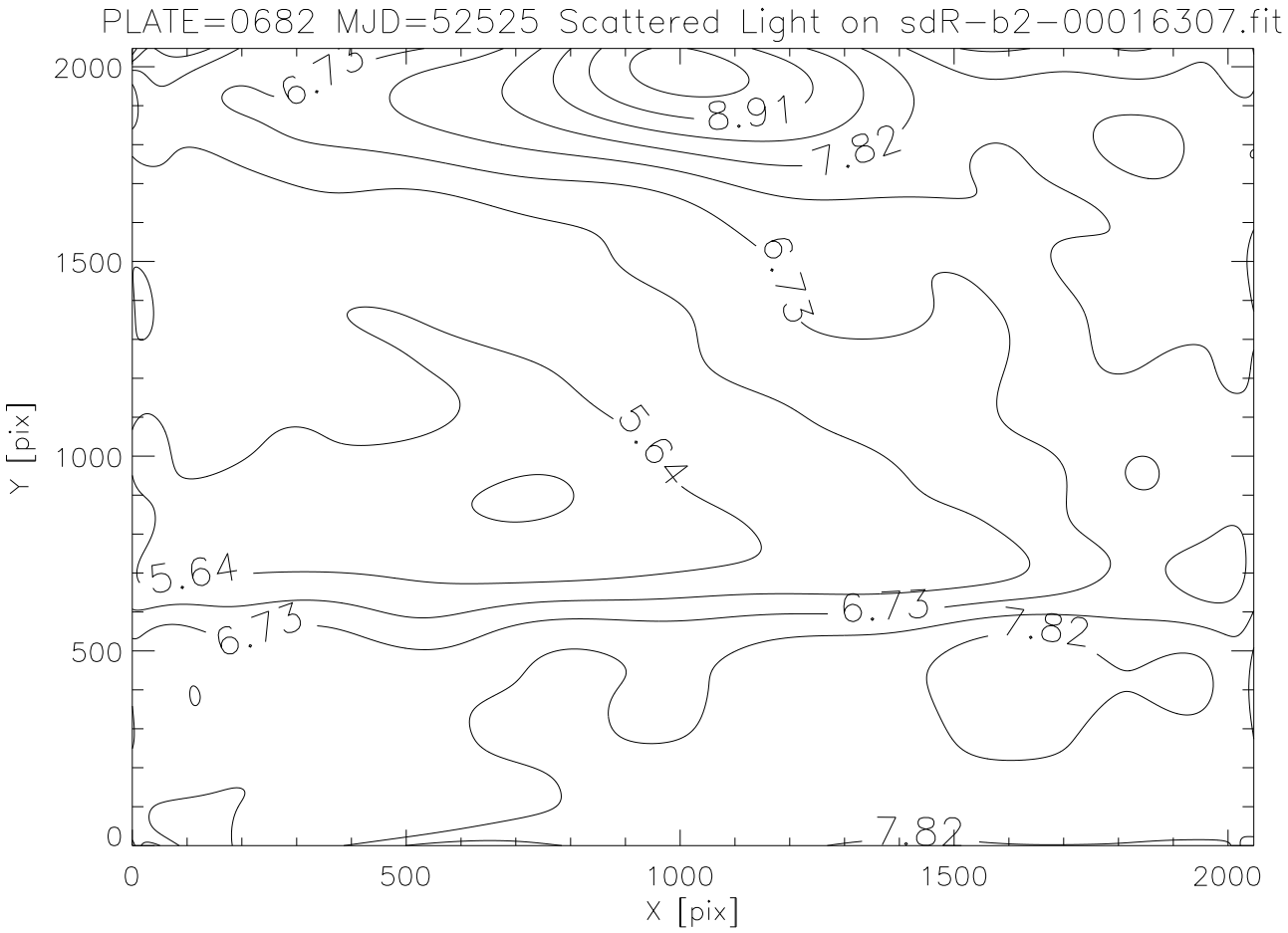

PLATE=0682 MJD=52525 sdR-b2-00016306.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.12 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

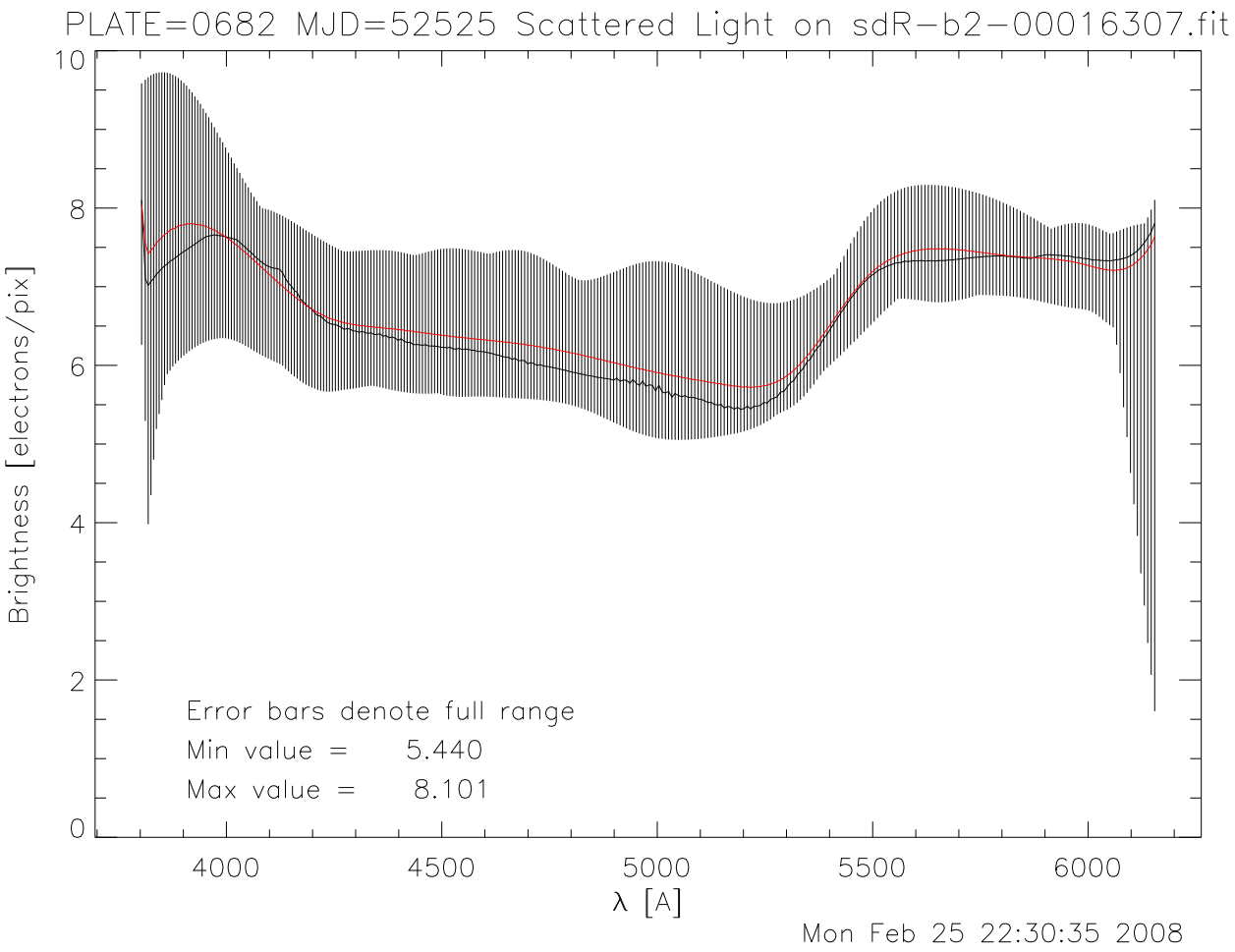

PLATE=0682 MJD=52525 sdR-b2-00016306.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.30 %
Fiber number
Focal Distance [mm]
Airmass

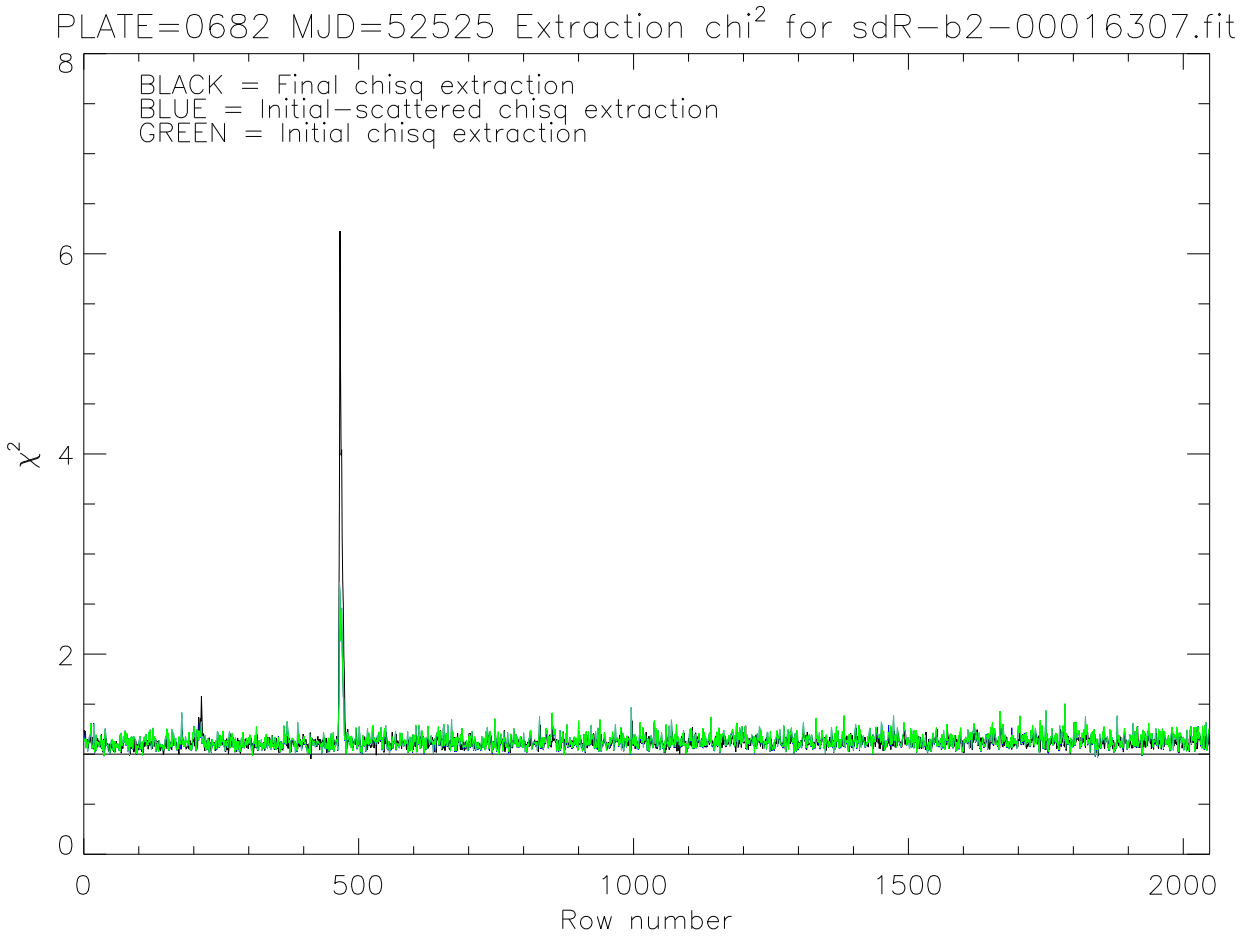

PLATE=0682 MJD=52525 Fiber-Flats for sdR-b2-00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.694
Max value = 1.158
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:27:10 2008

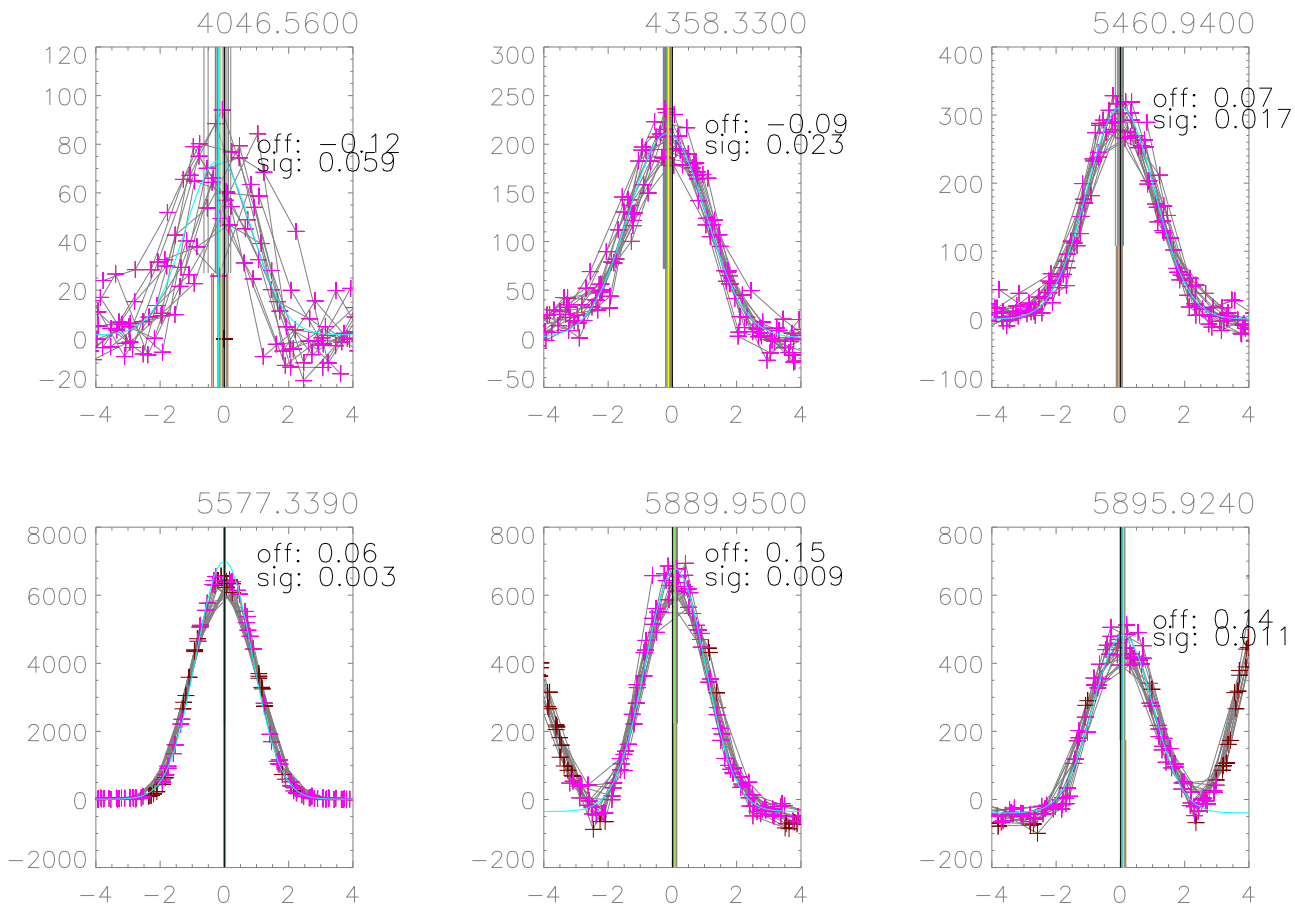

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR−b2−00016307.f
11.1
9.6
8.2
8.2
8.2
9.6
9.6
9.6
8.2
8.2
8.2
9.6
Y [pix]
X [pix]
0
500
1000
1500
2000

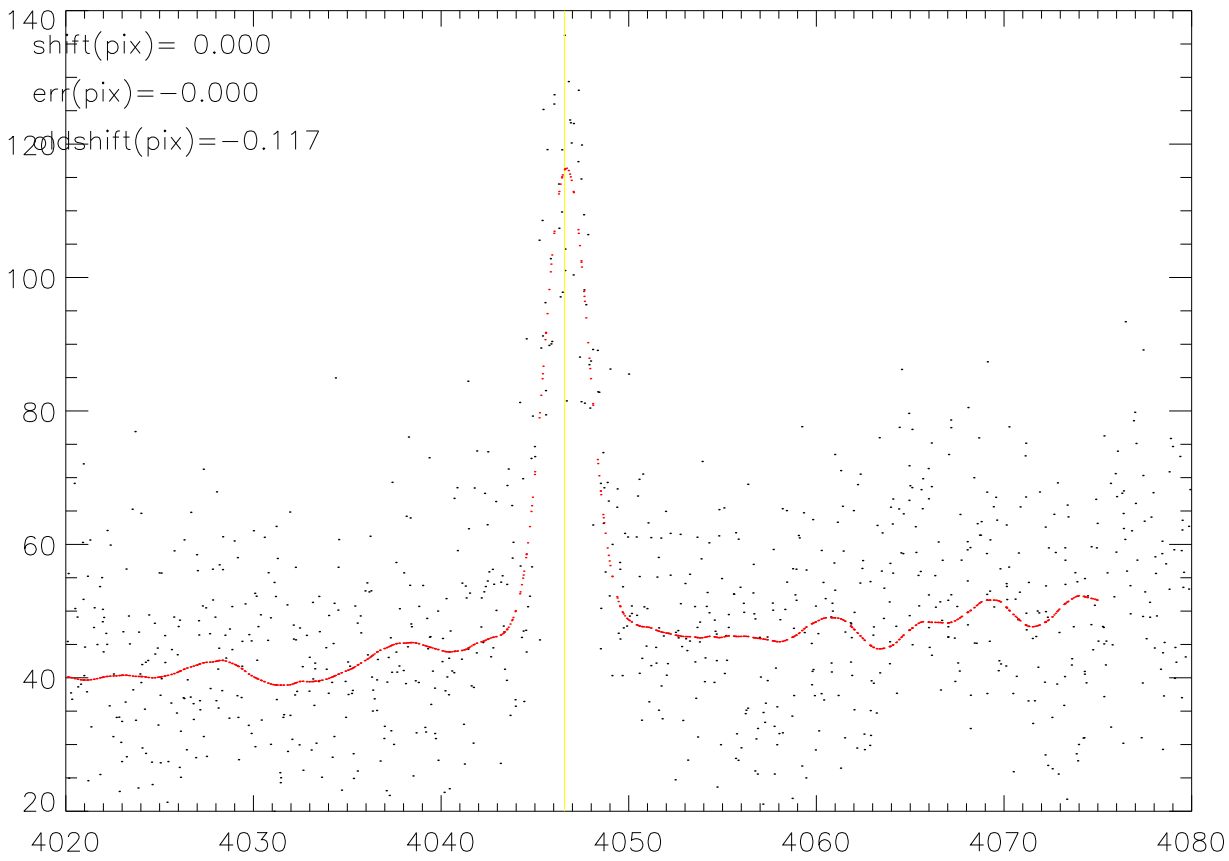

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b2-00016307.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 7.761
Max value = 11.711
Mon Feb 25 22:27:57 2008

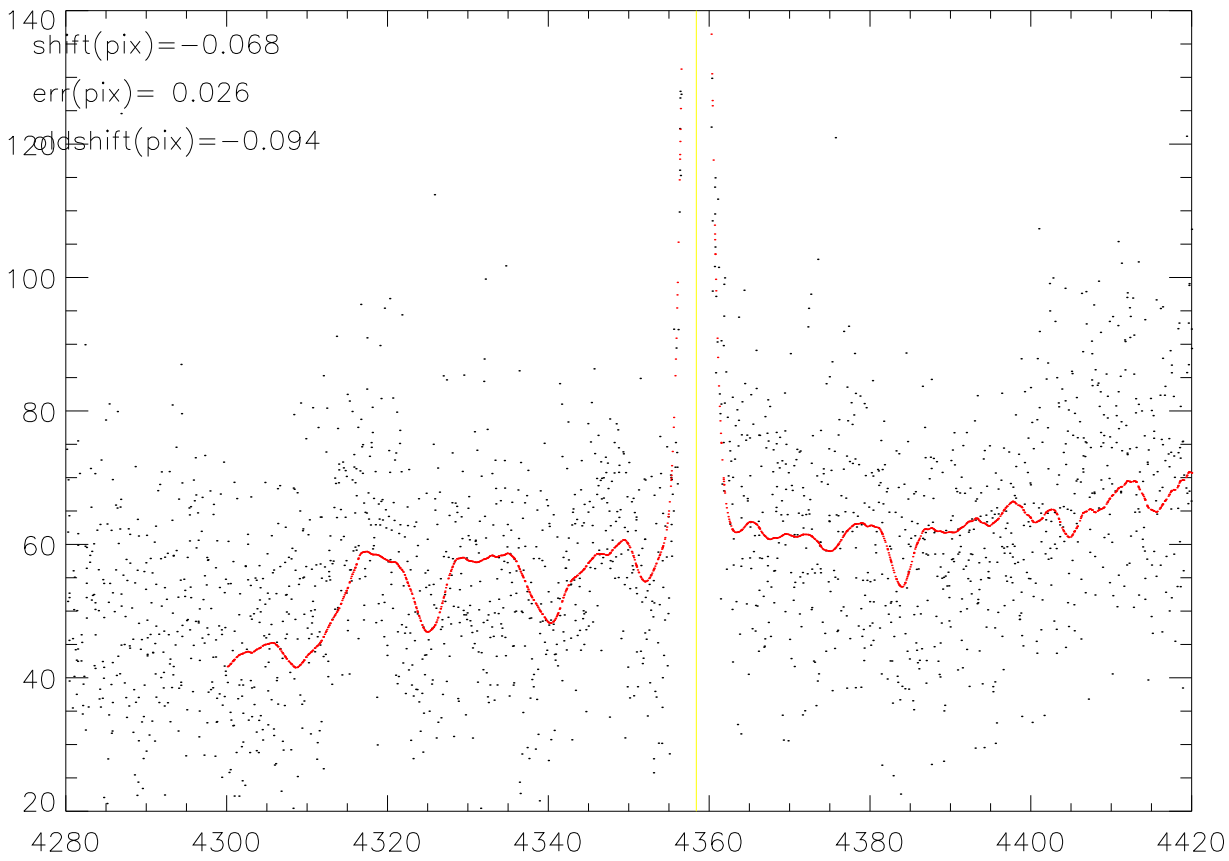

PLATE=0682 MJD=52525 Scattered Light on sdR-b2-00016307.fit
6.73
8.91
7.82
6.73
5.64
5.64
6.73
6.73
7.82
0
7.82
Y [pix]
X [pix]
0
500
1000
1500
2000

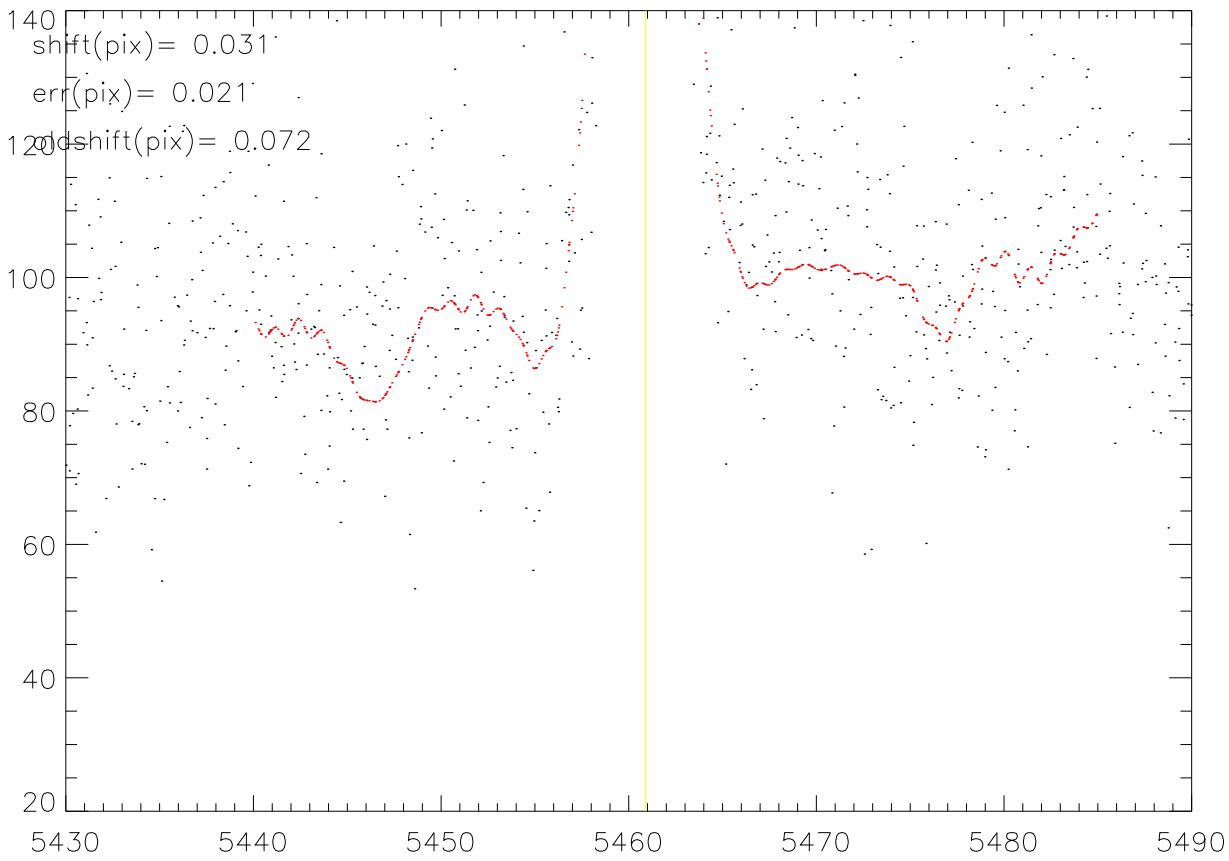

PLATE=0682 MJD=52525 Scattered Light on sdR-b2-00016307.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 5.440
Max value = 8.101
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:30:35 2008

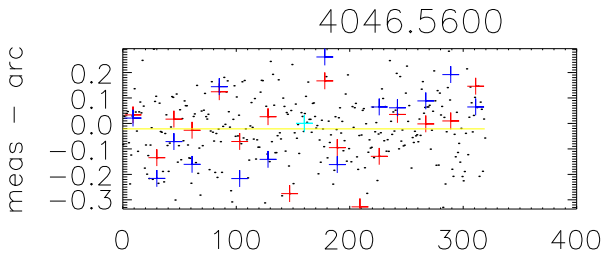

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR-b2-00016307.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
8
0
500
1000
1500
2000
Row number

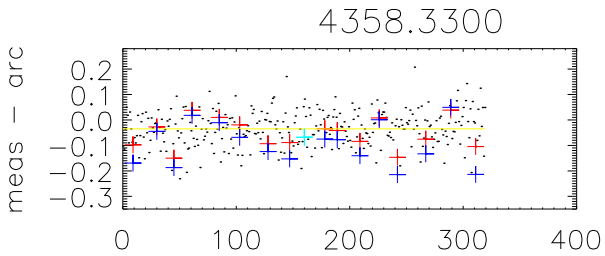

4046.5600
off: −0.12
sig: 0.059
4358.3300
off: −0.09
sig: 0.023
5460.9400
off: 0.07
sig: 0.017
5577.3390
off: 0.06
sig: 0.003
5889.9500
off: 0.15
sig: 0.009
5895.9240
off: 0.14
sig: 0.011

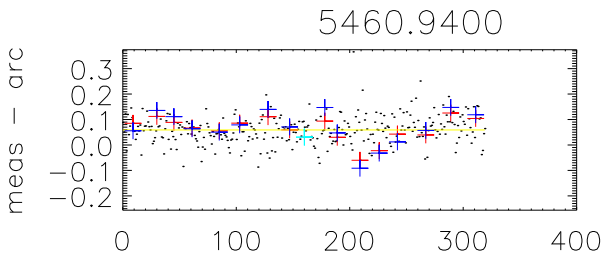

shift(pix)= 0.000
err(pix)=-0.000
oldshift(pix)=-0.117
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

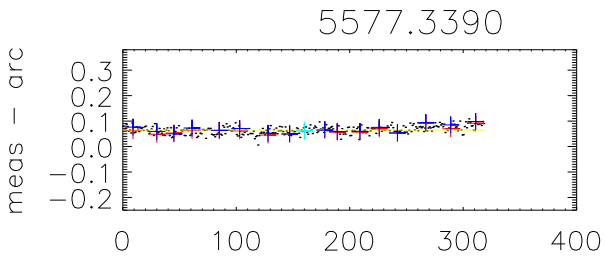

shift(pix)=−0.068
err(pix)= 0.026
oldshift(pix)=−0.094
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

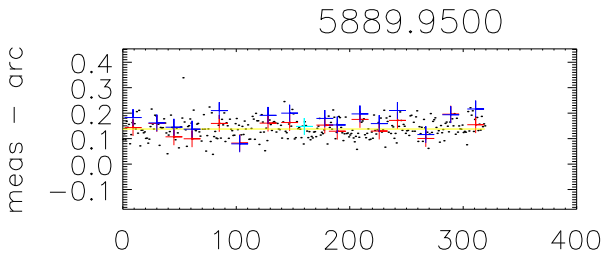

shift(pix)= 0.031
err(pix)= 0.021
oldshift(pix)= 0.072
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

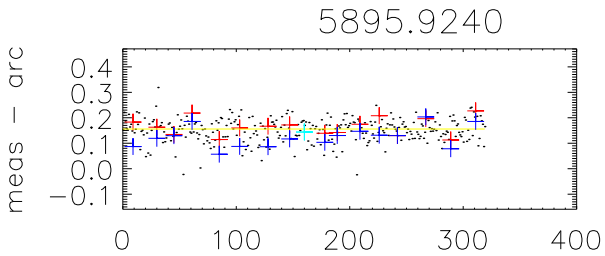

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

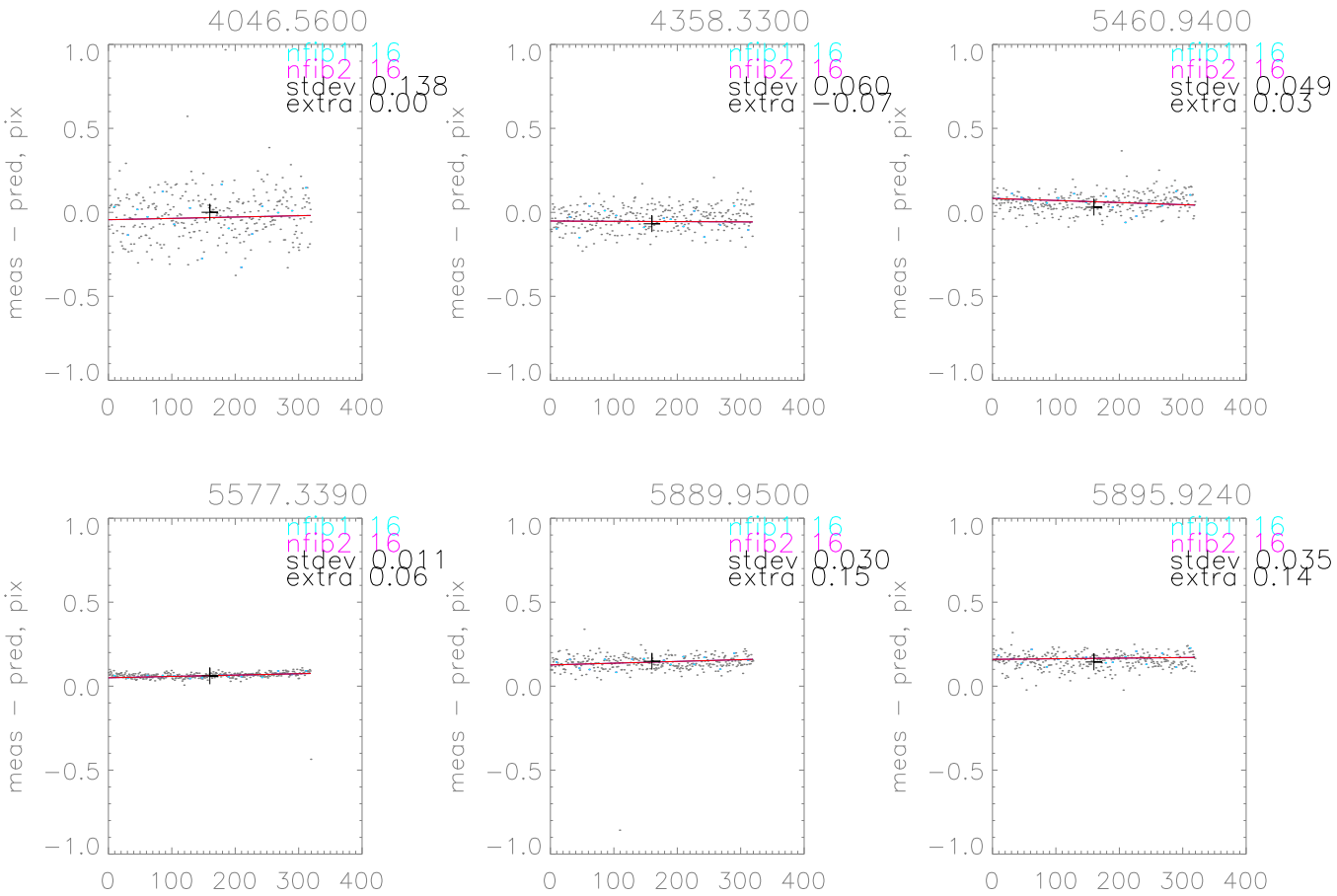

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

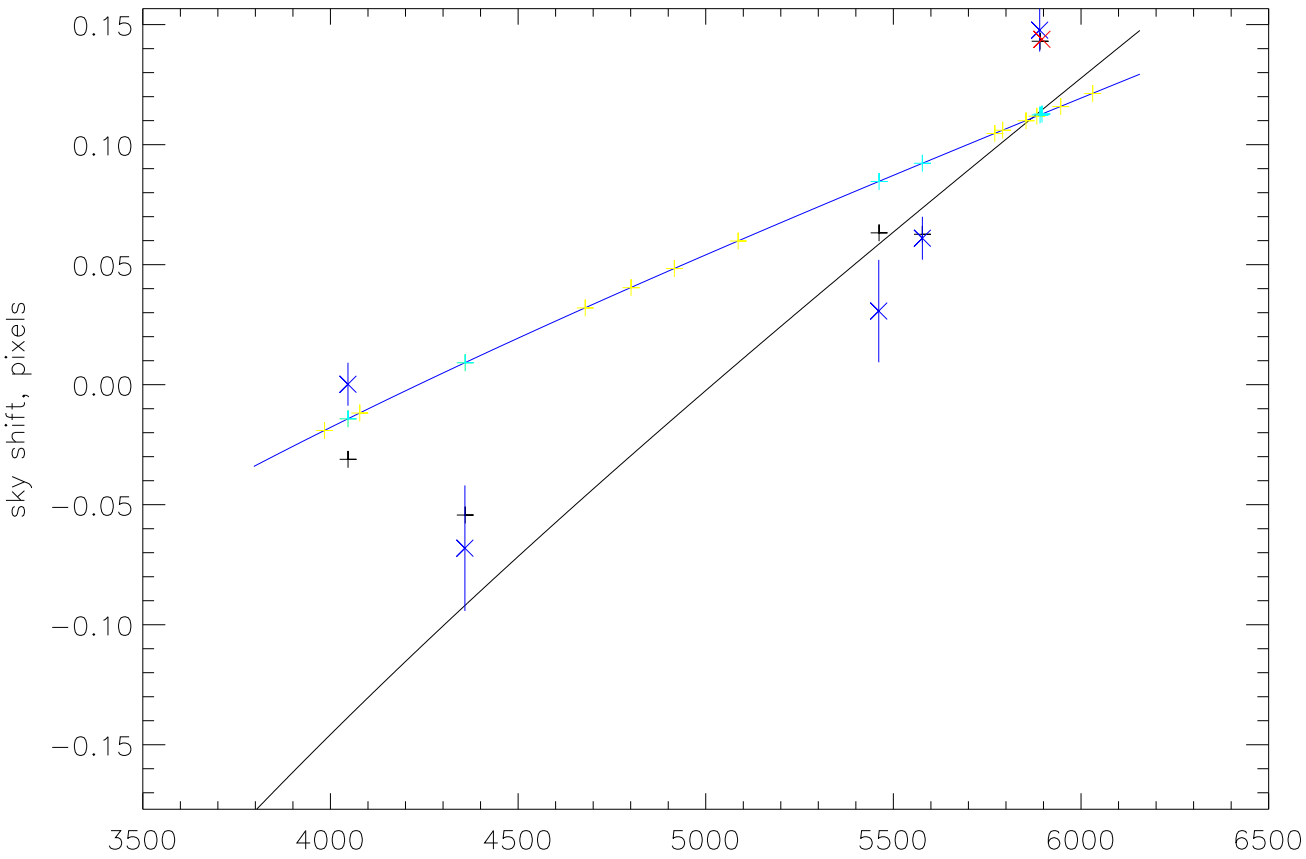

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

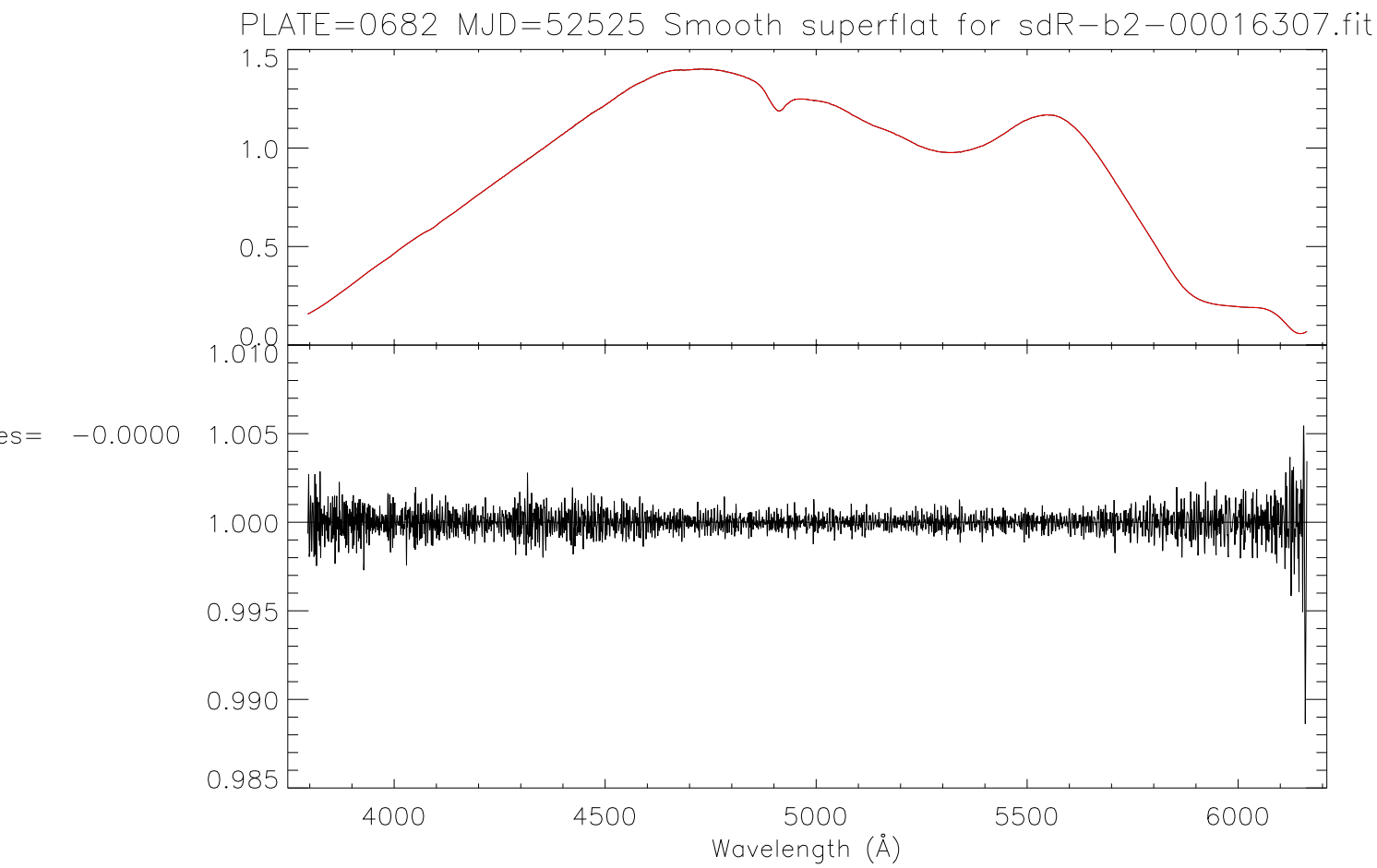

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

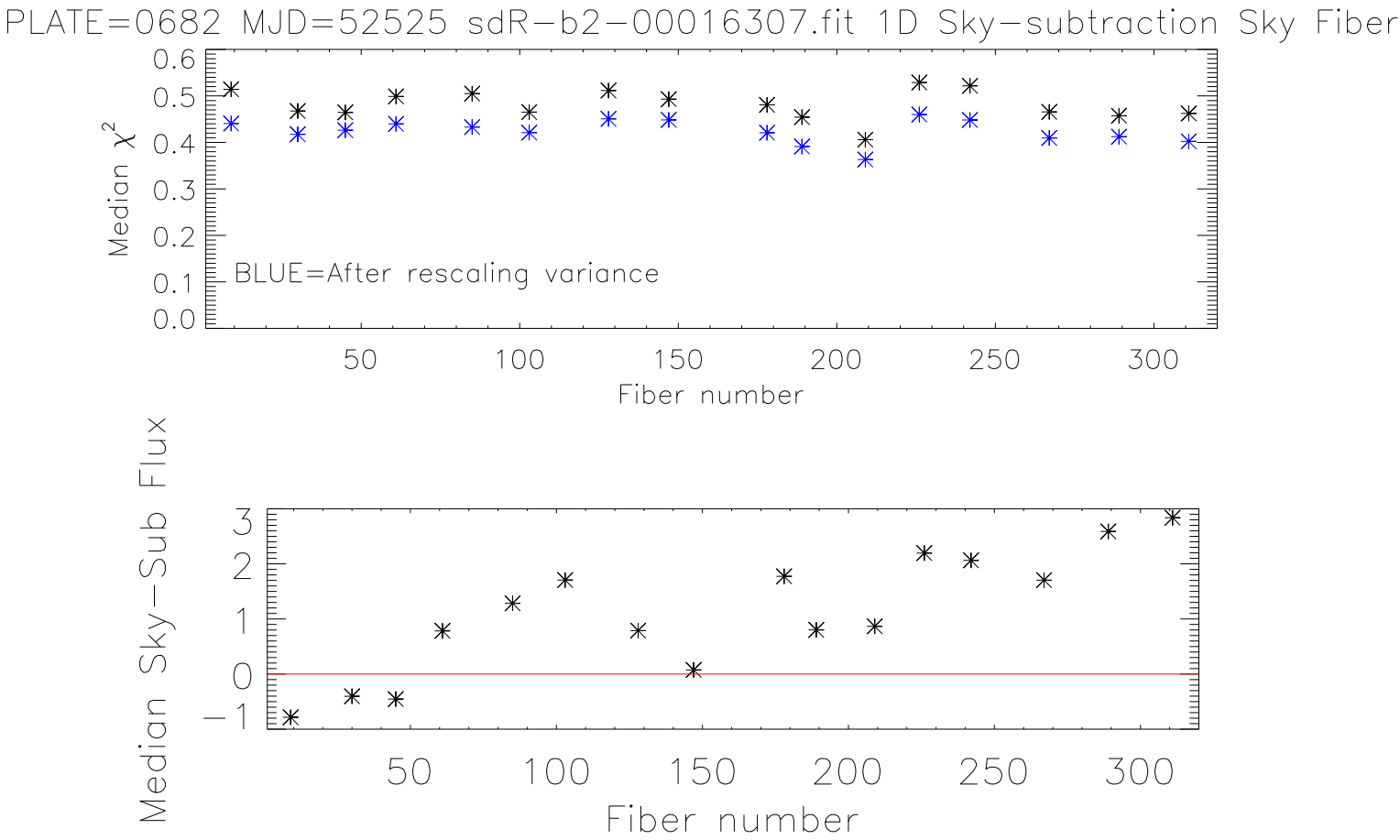

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

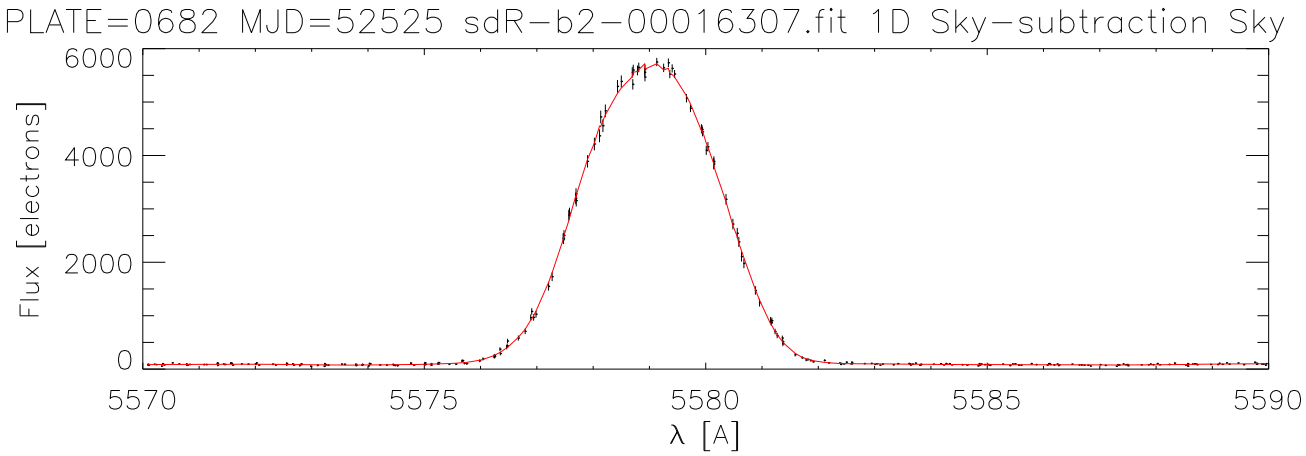

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

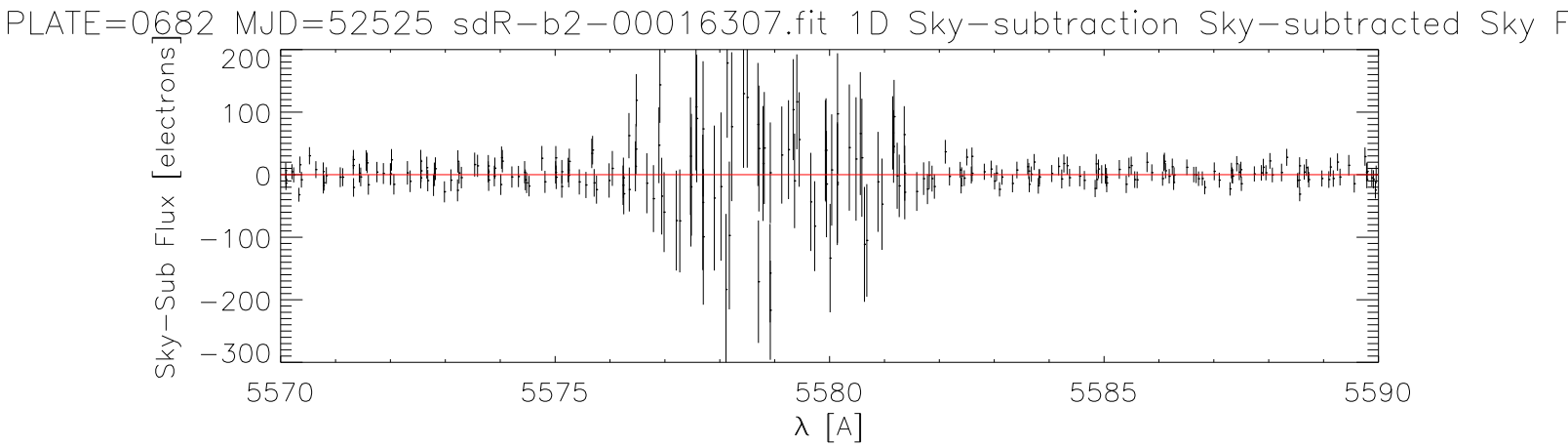

4046.5600
nfib1 16
nfib2 16
stdev 0.138
extra 0.00
4358.3300
nfib1 16
nfib2 16
stdev 0.060
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.049
extra 0.03
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra 0.06
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra 0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.035
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

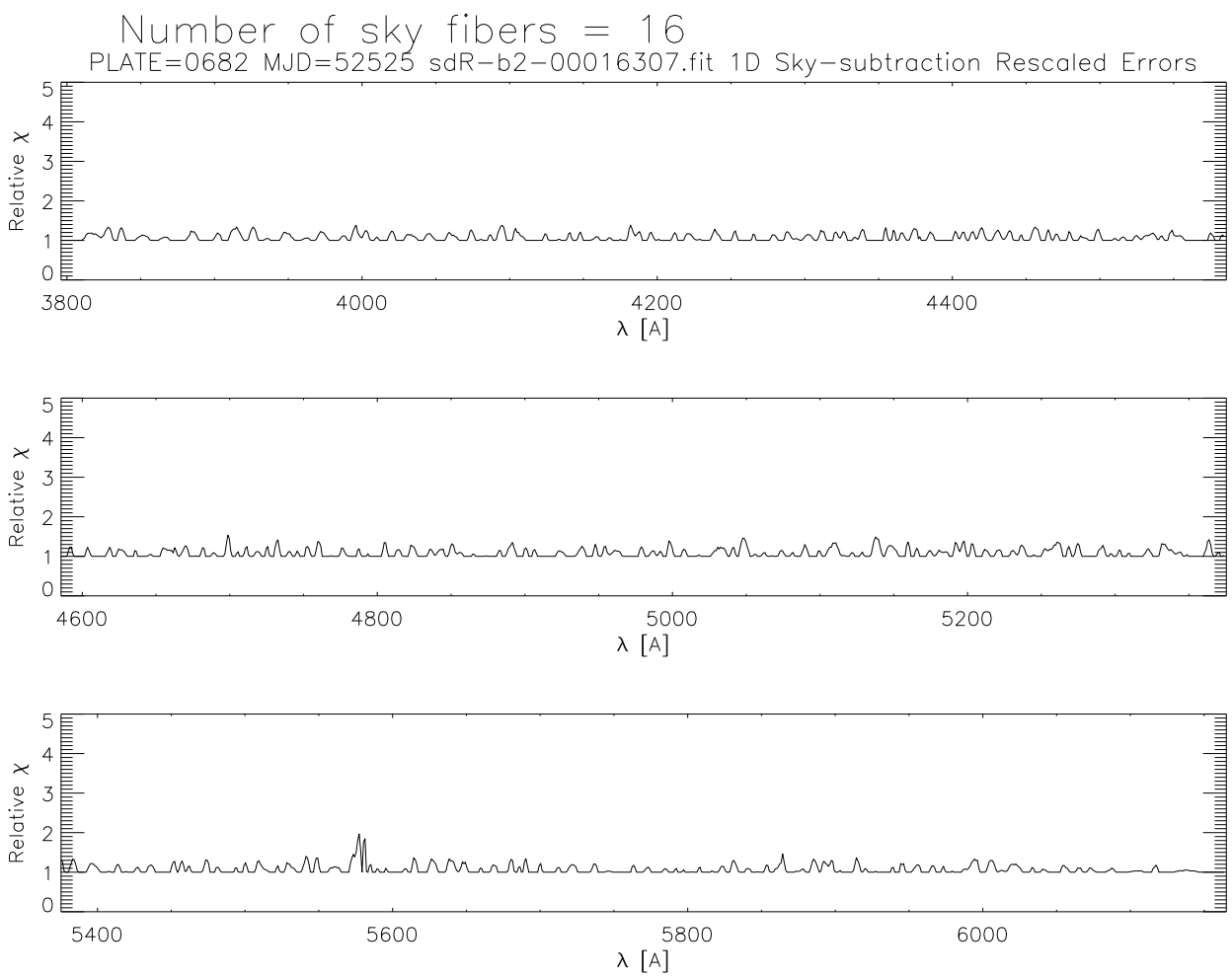

0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

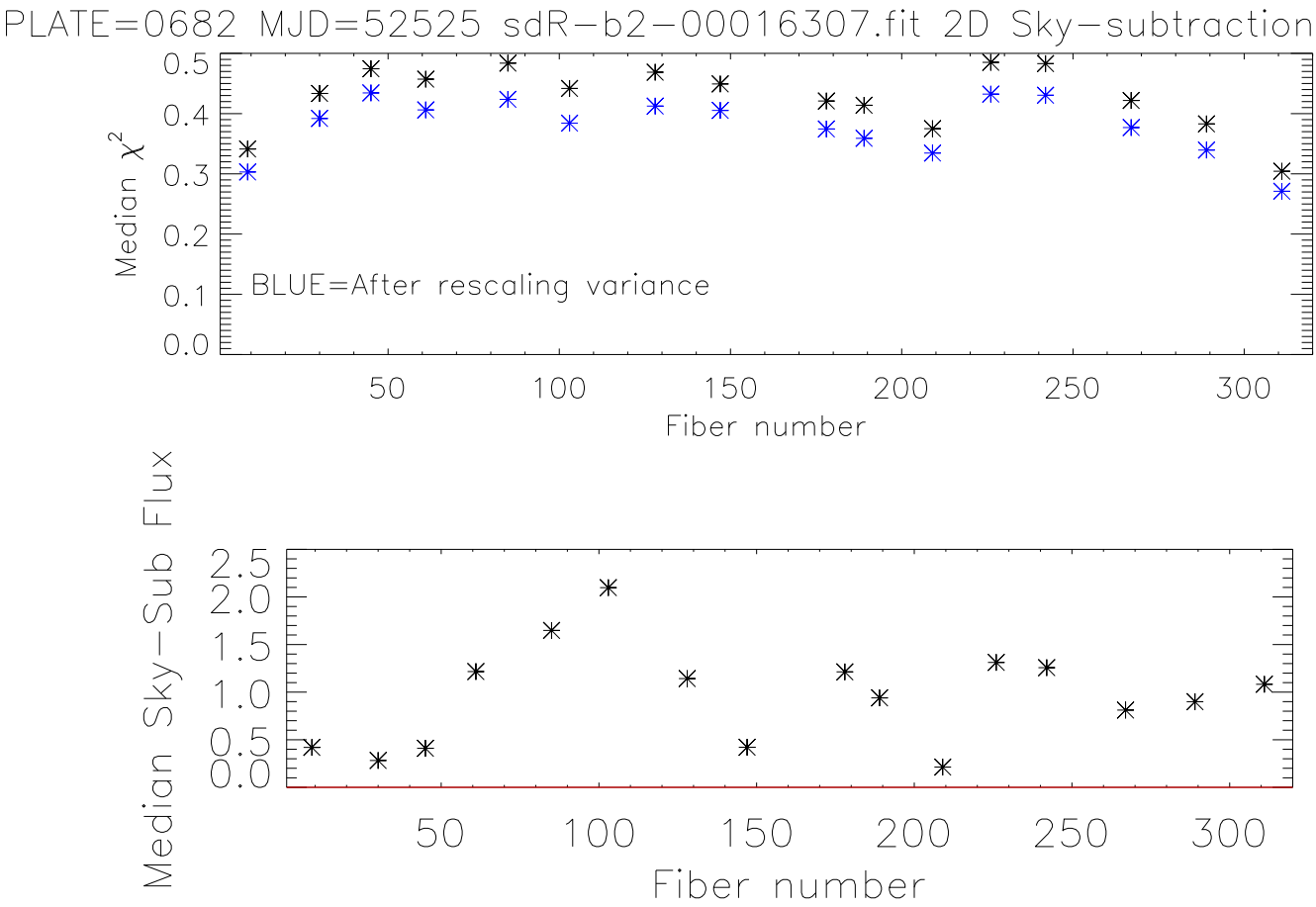

PLATE=0682 MJD=52525 Smooth superflat for sdR-b2-00016307.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

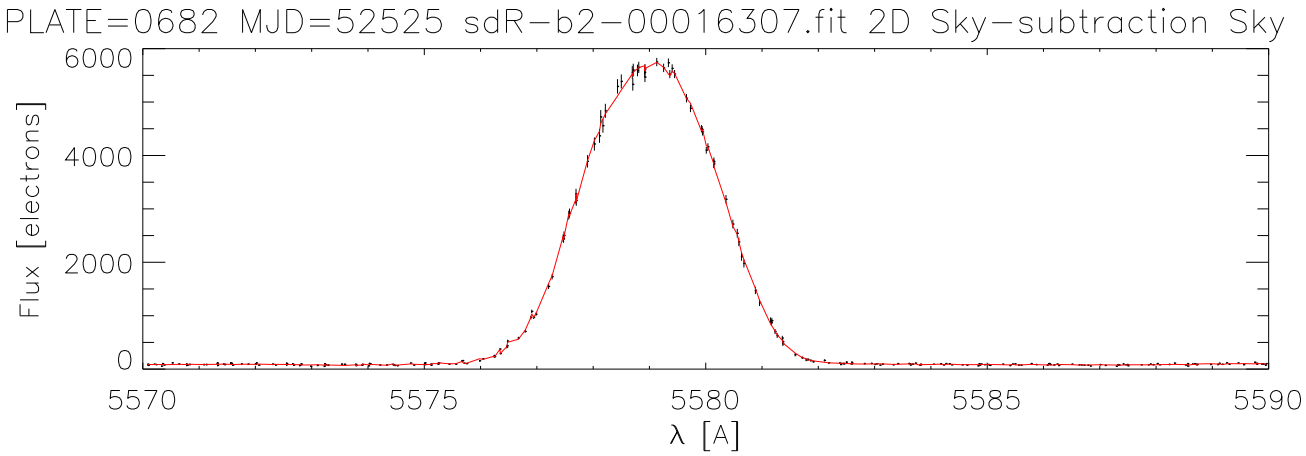

PLATE=0682 MJD=52525 sdR-b2-00016307.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

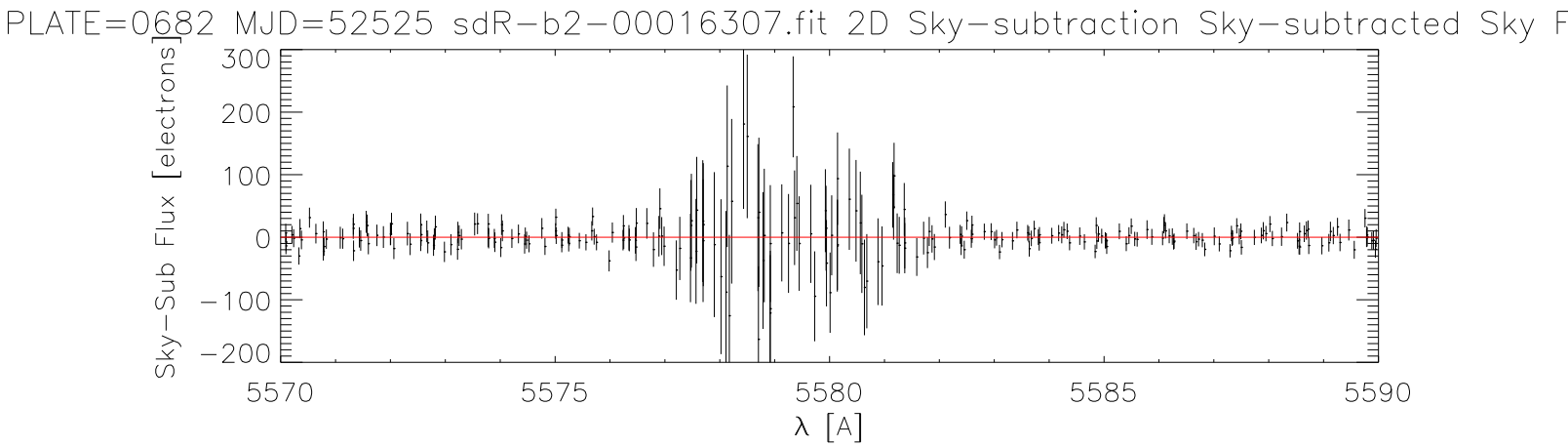

PLATE=0682 MJD=52525 sdR-b2-00016307.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

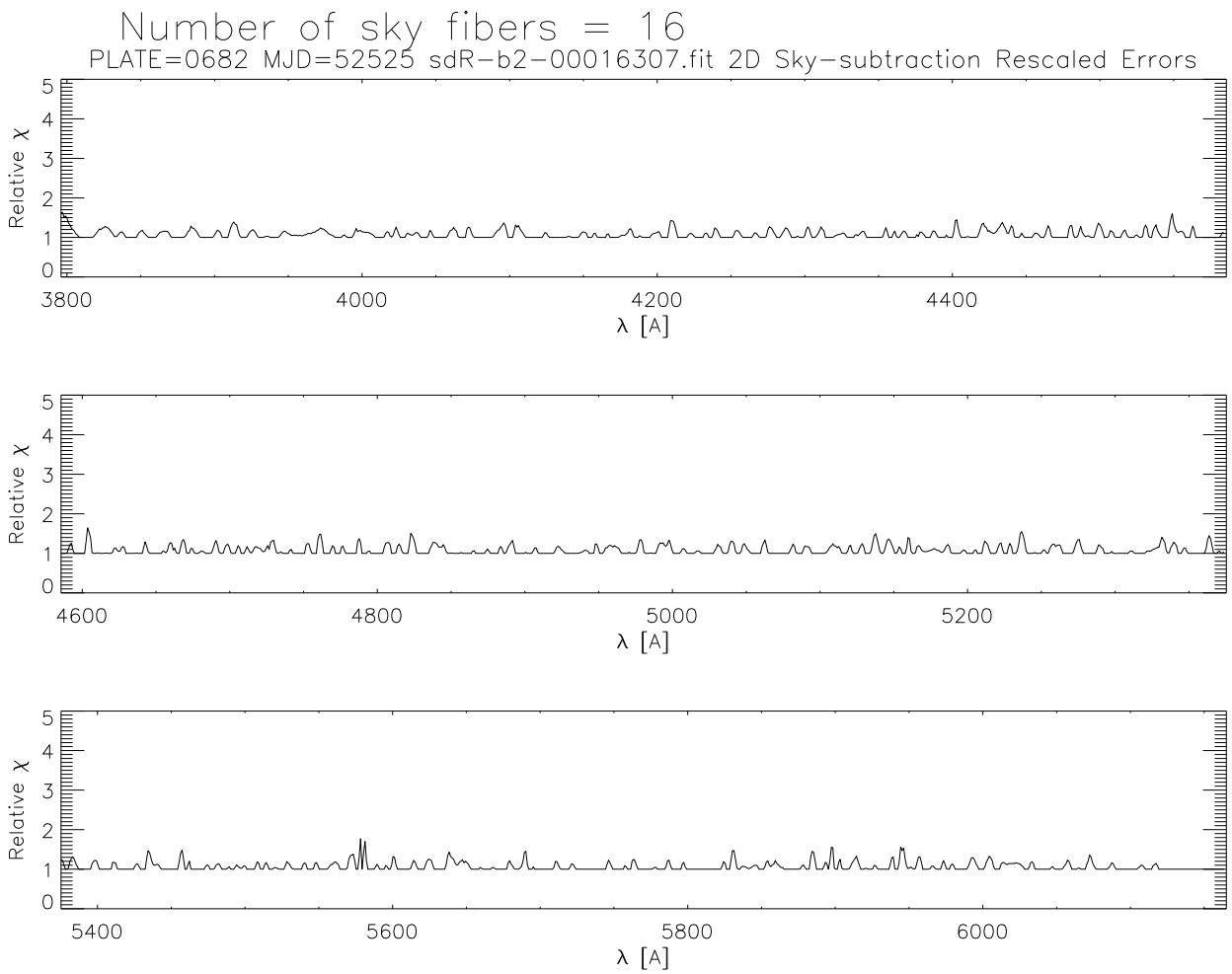

PLATE=0682 MJD=52525 sdR-b2-00016307.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

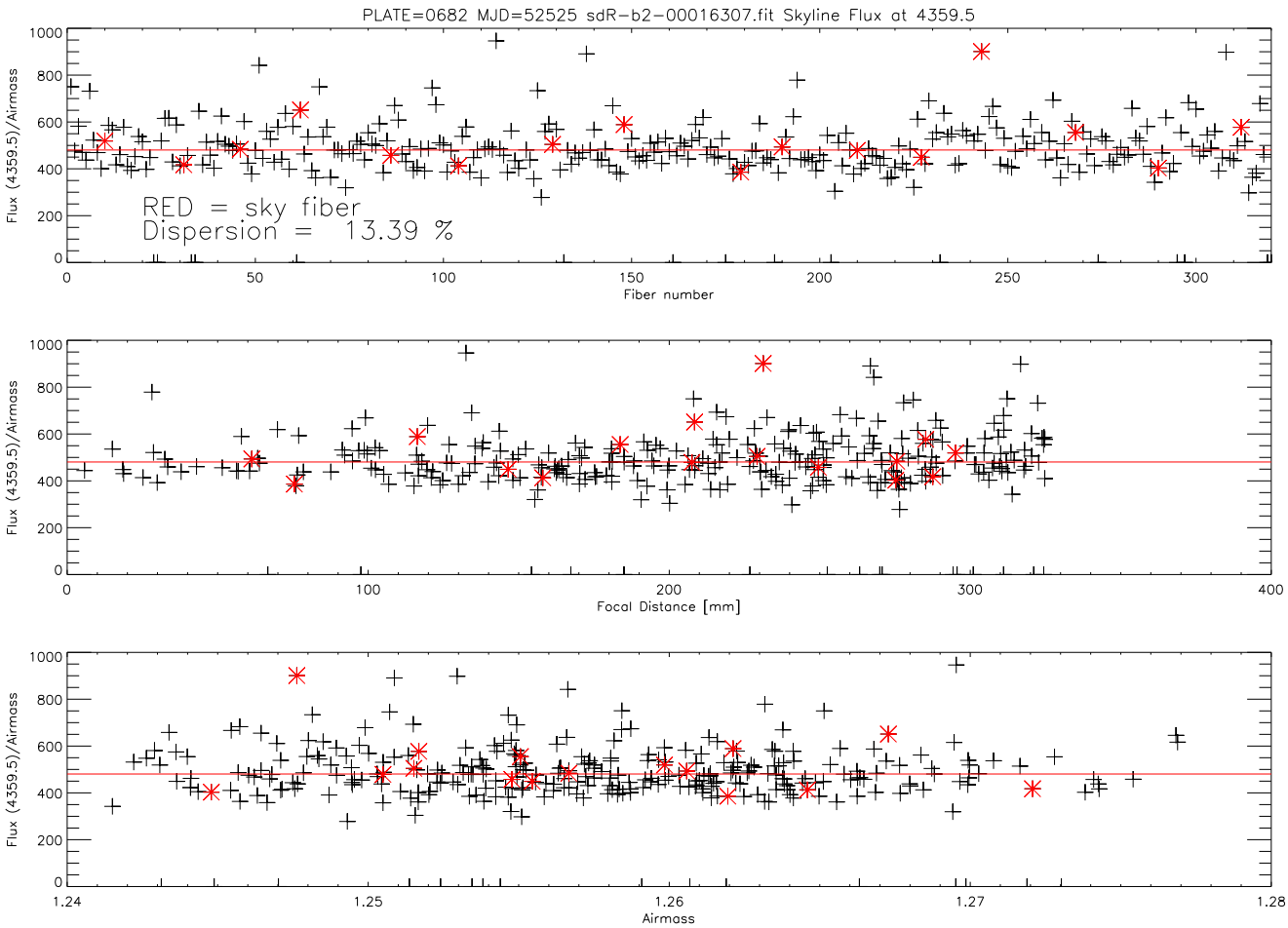

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b2-00016307.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

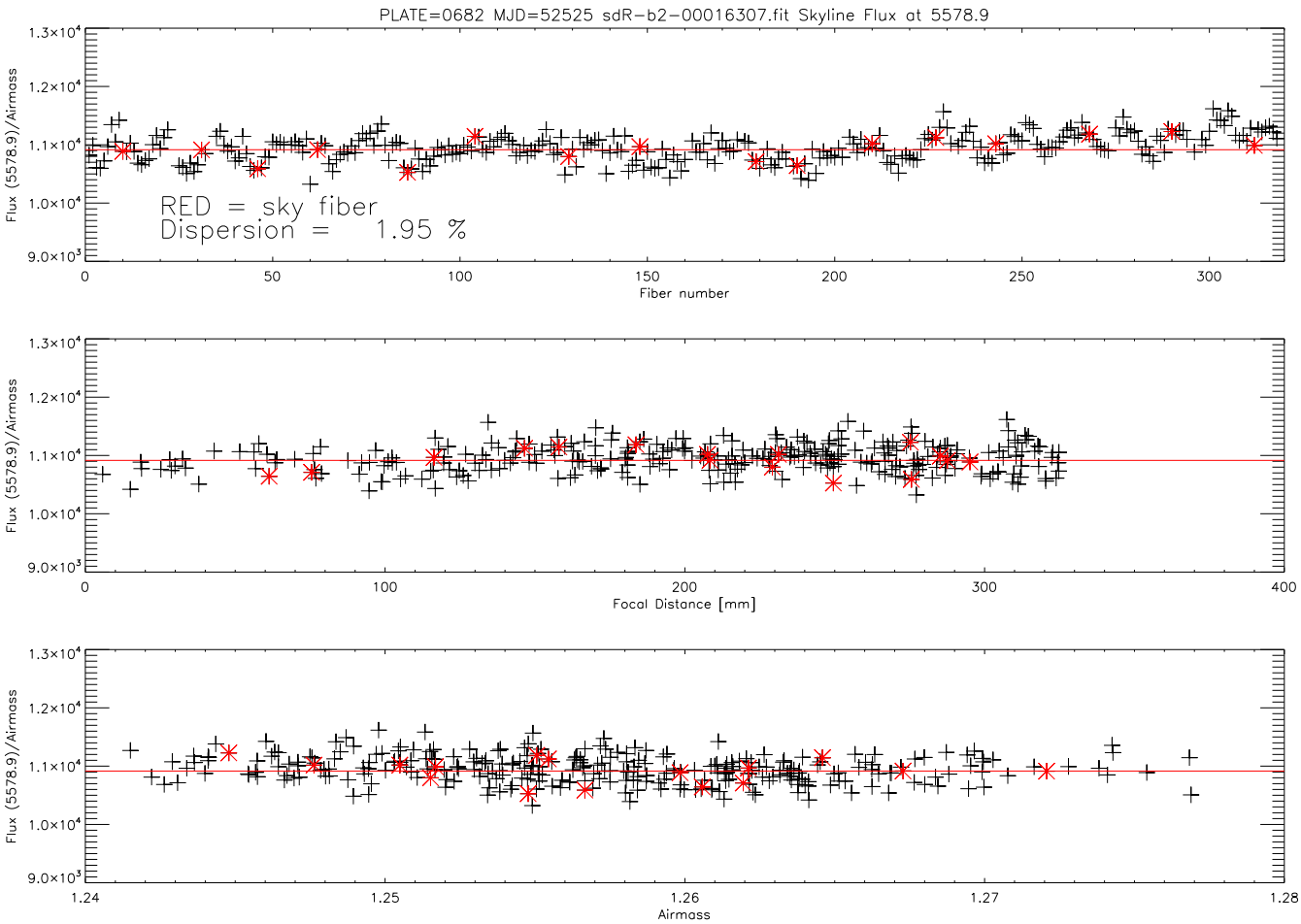

PLATE=0682 MJD=52525 sdR-b2-00016307.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

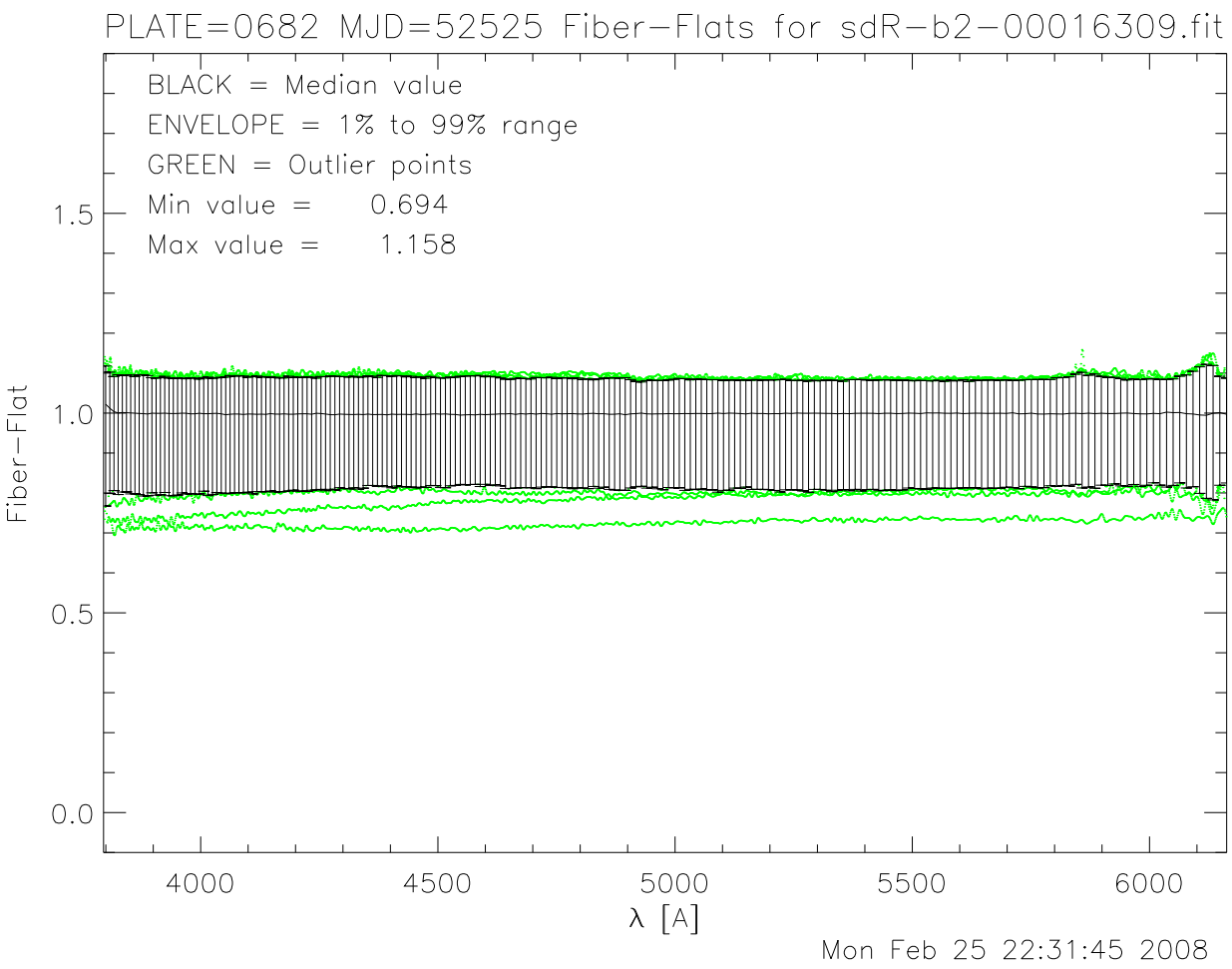

PLATE=0682 MJD=52525 sdR-b2-00016307.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

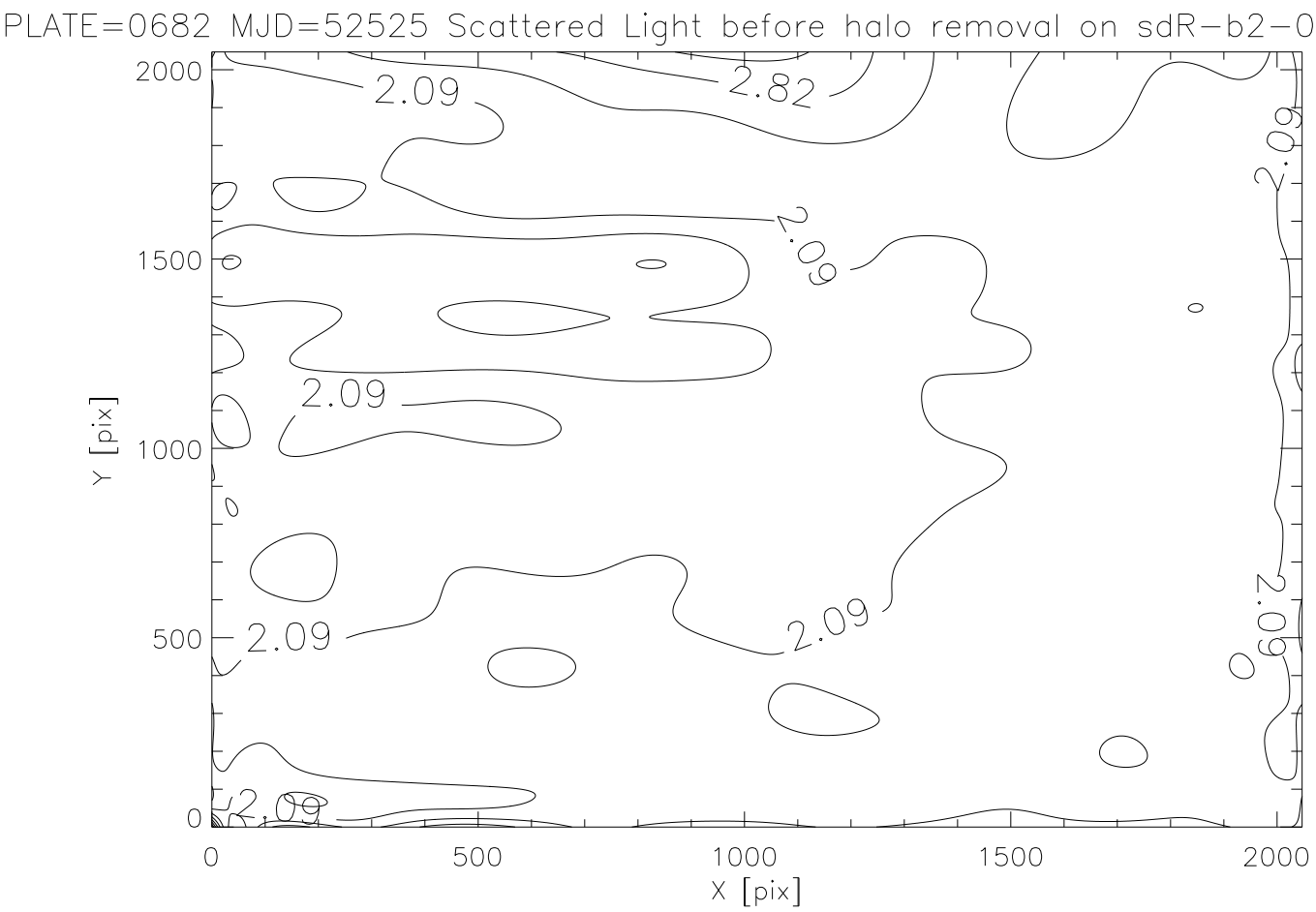

PLATE=0682 MJD=52525 sdR-b2-00016307.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

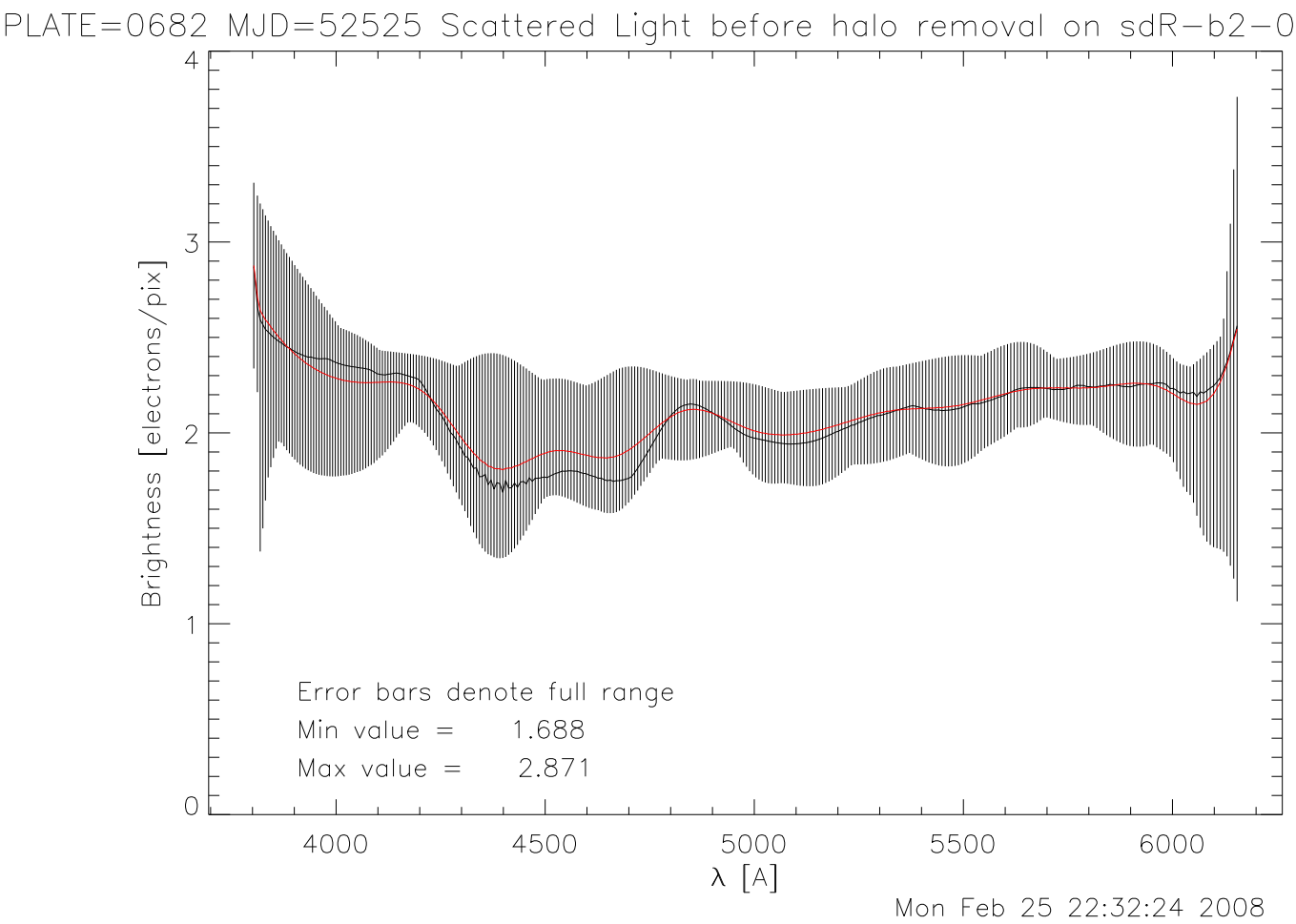

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b2-00016307.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

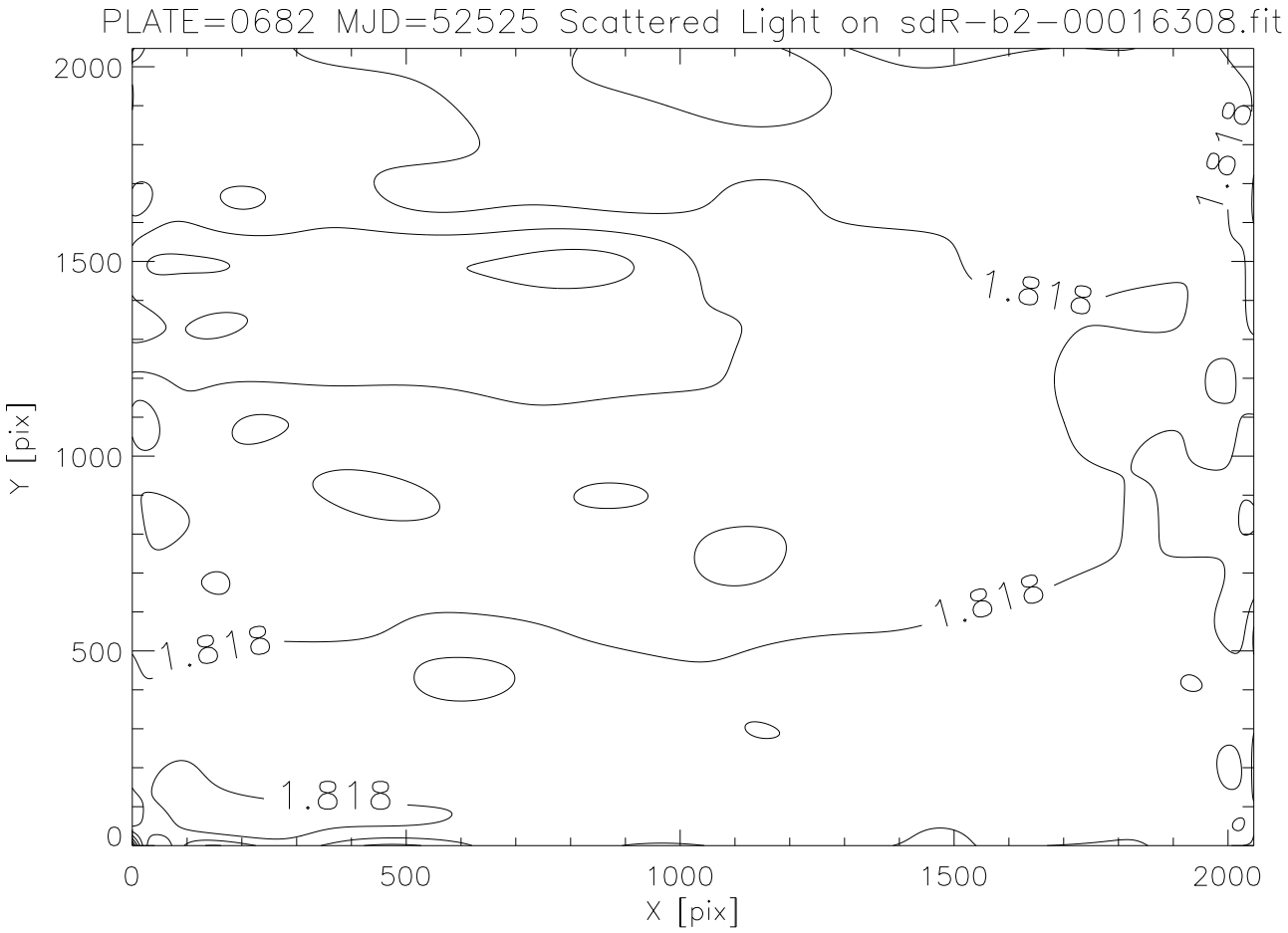

PLATE=0682 MJD=52525 sdR-b2-00016307.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.39 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

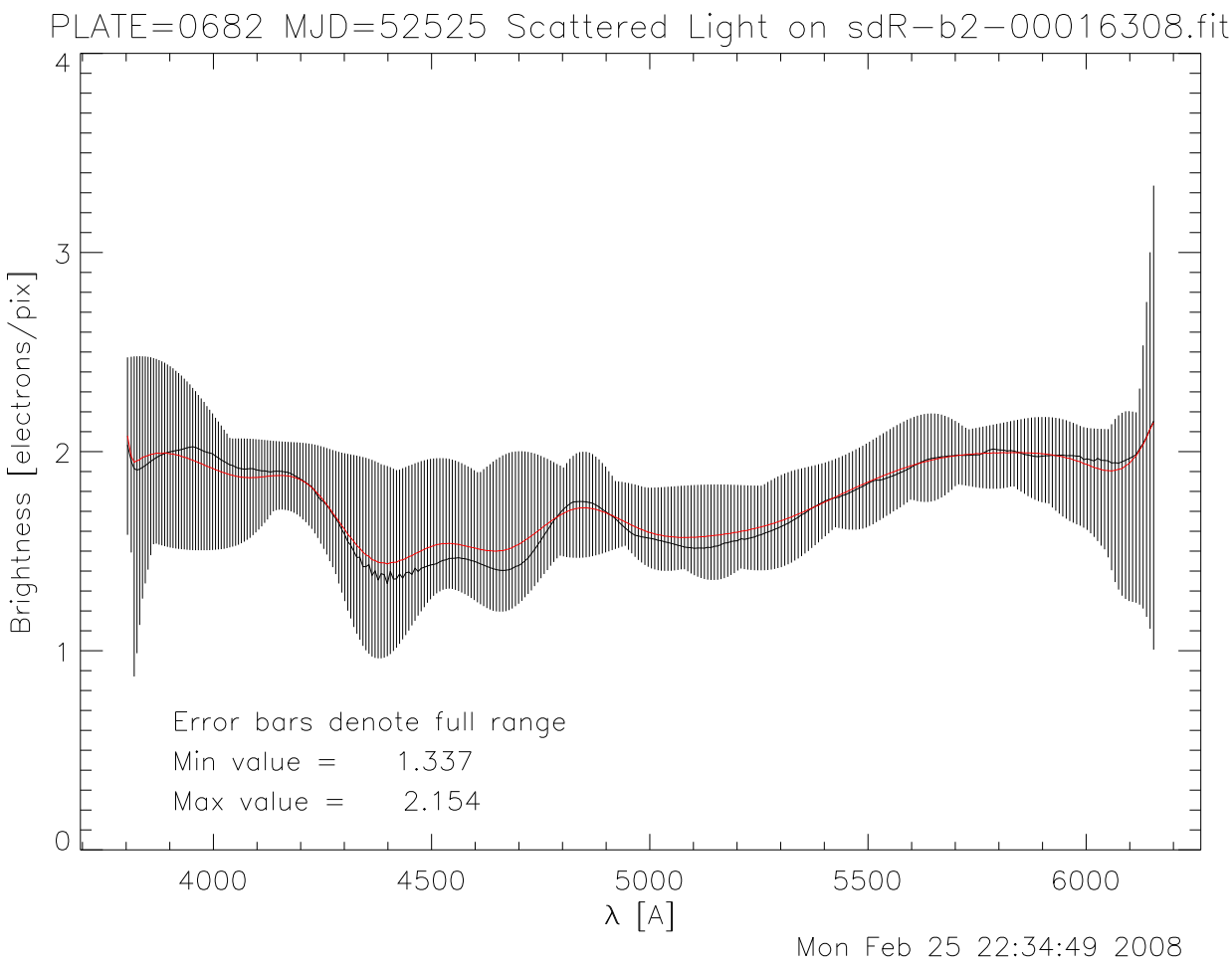

PLATE=0682 MJD=52525 sdR-b2-00016307.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
9.0×10^3
RED = sky fiber
Dispersion = 1.95 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
9.0×10^3
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
9.0×10^3
1.24
1.25
1.26
1.27
1.28
Airmass

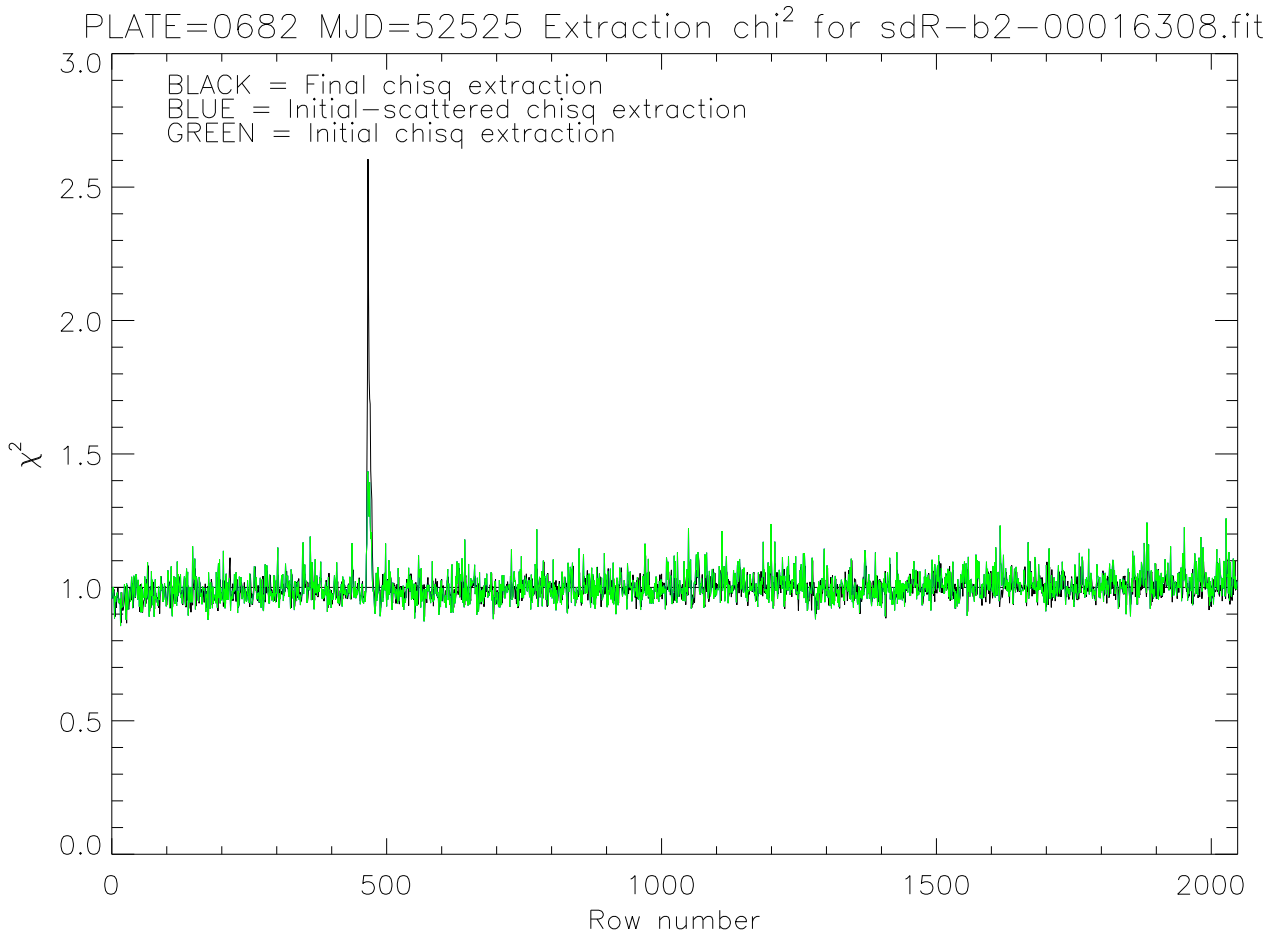

PLATE=0682 MJD=52525 Fiber−Flats for sdR−b2−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.694
Max value = 1.158
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:31:45 2008

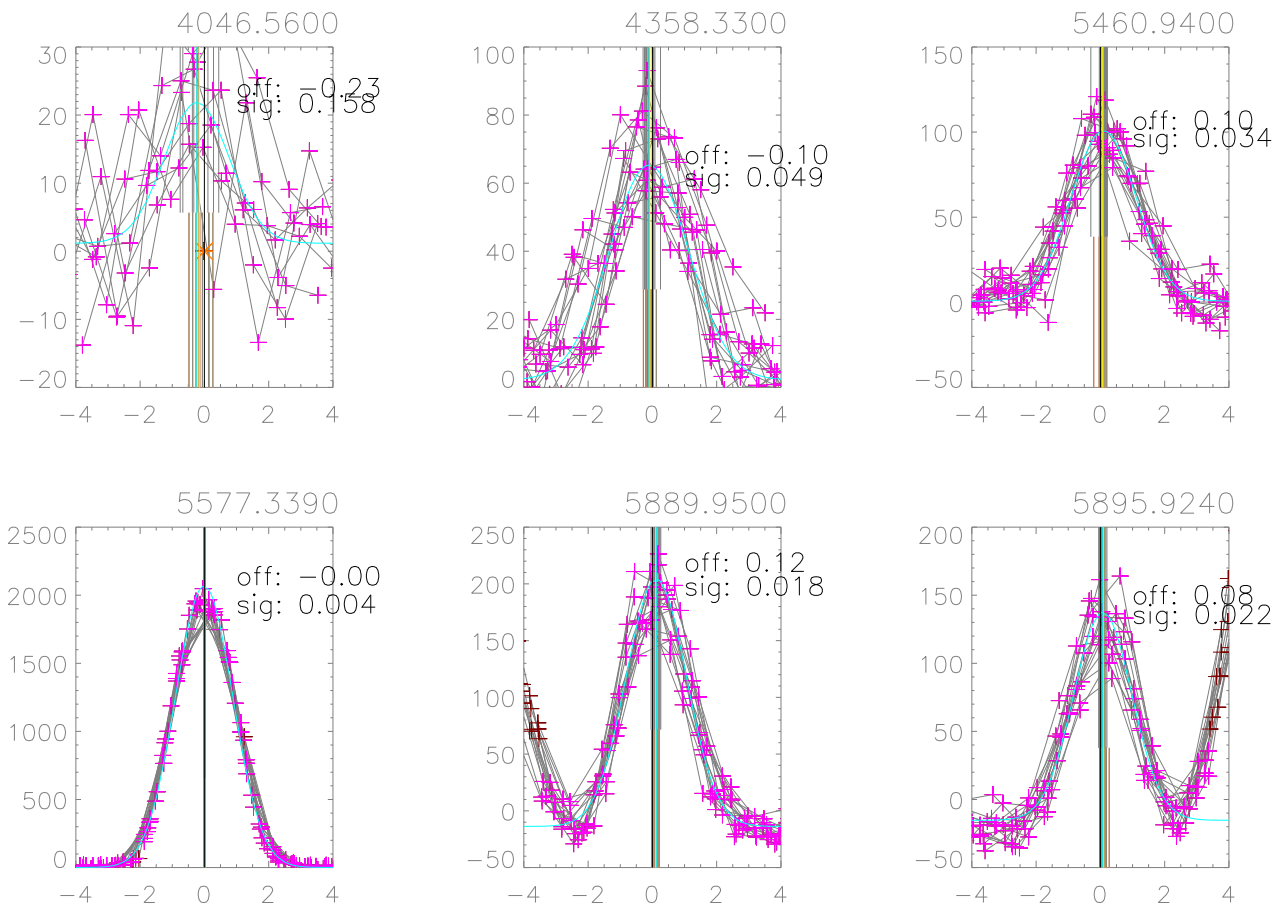

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b2-00016308.f
2.09
2.82
2.09
2.09
2.09
2.09
2.09
2.09
2.09
0
0
0
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

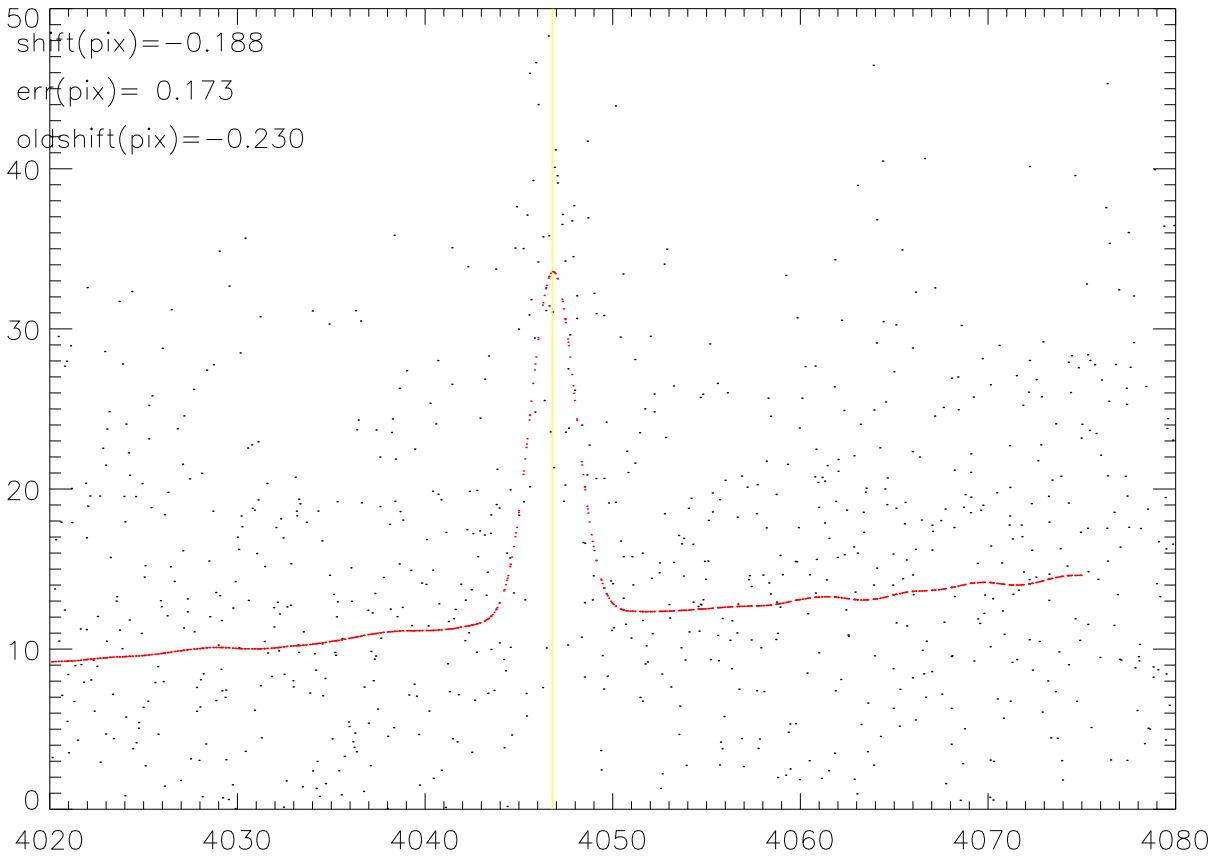

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-b2-00016308.f
Brightness [electrons/pix]
0
1
2
3
4
Error bars denote full range
Min value = 1.688
Max value = 2.871
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 22:32:24 2008

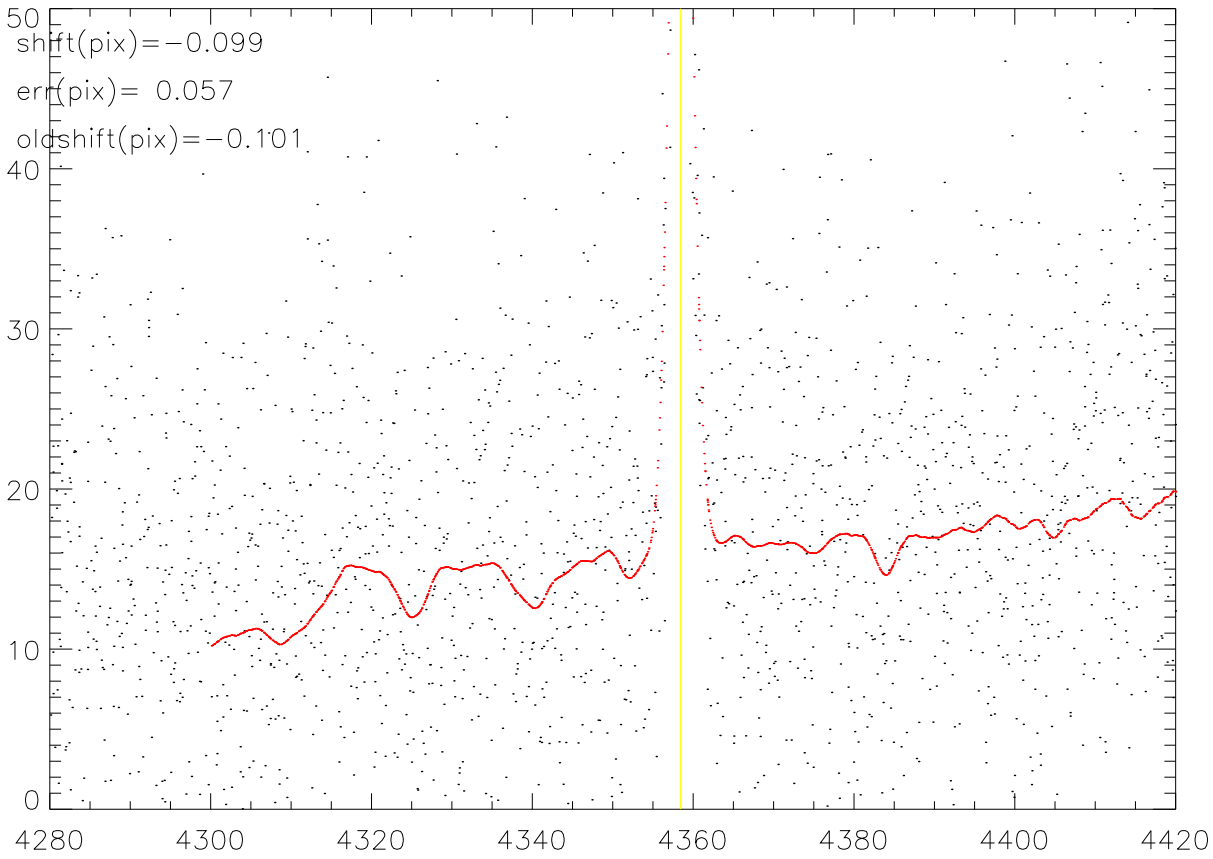

PLATE=0682 MJD=52525 Scattered Light on sdR-b2-00016308.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.818
1.818
1.818
1.818
1.818

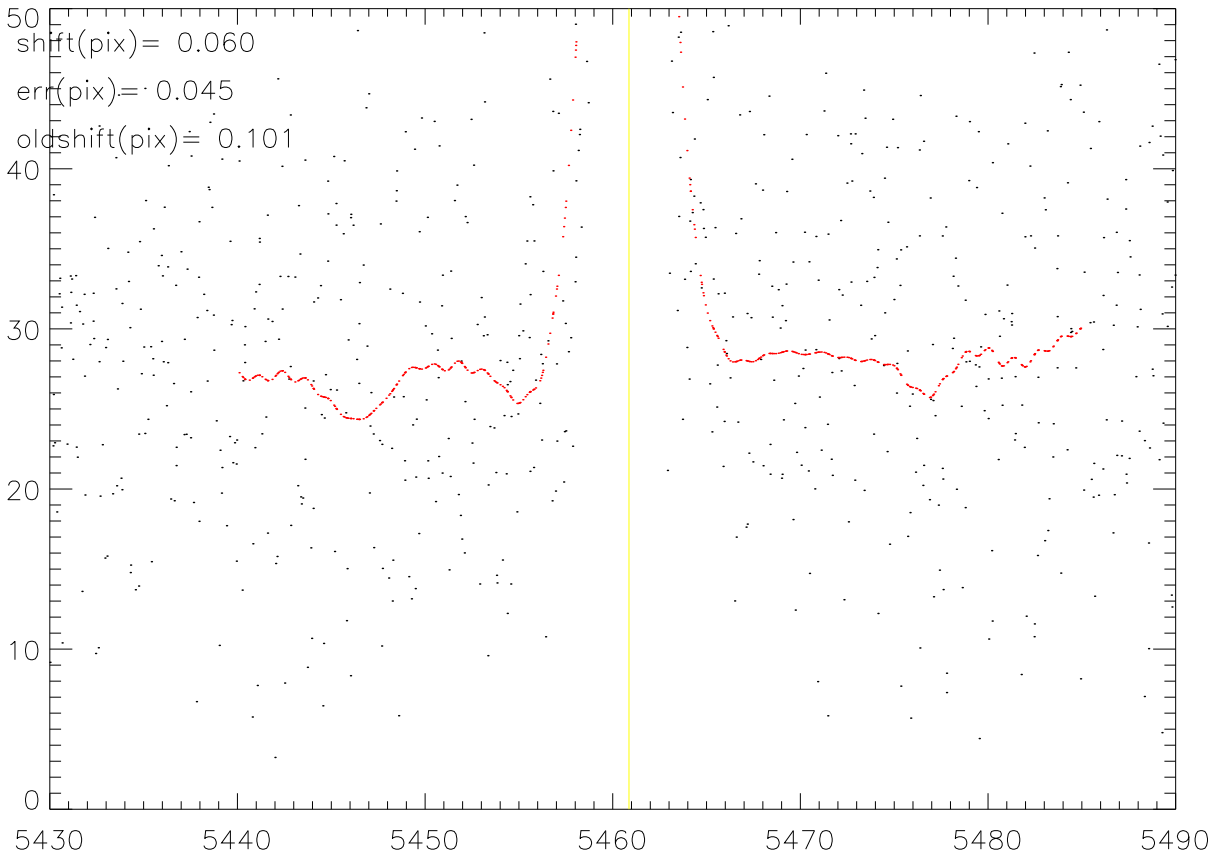

PLATE=0682 MJD=52525 Scattered Light on sdR-b2-00016308.fit
Brightness [electrons/pix]
0
1
2
3
4
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 1.337
Max value = 2.154
Mon Feb 25 22:34:49 2008

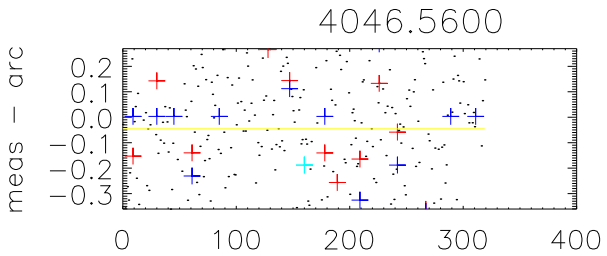

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR−b2−00016308.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

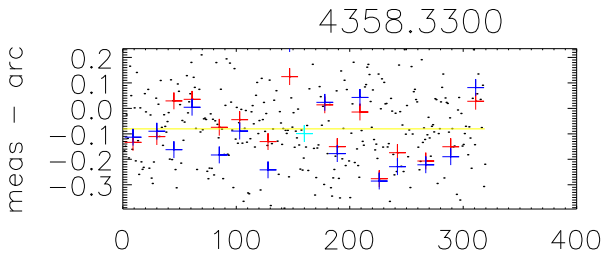

4046.5600
off: −0.23
sig: 0.158
4358.3300
off: −0.10
sig: 0.049
5460.9400
off: 0.10
sig: 0.034
5577.3390
off: −0.00
sig: 0.004
5889.9500
off: 0.12
sig: 0.018
5895.9240
off: 0.08
sig: 0.022

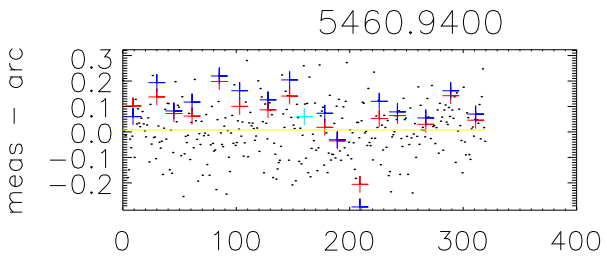

shift(pix)=−0.188
err(pix)= 0.173
oldshift(pix)=−0.230
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

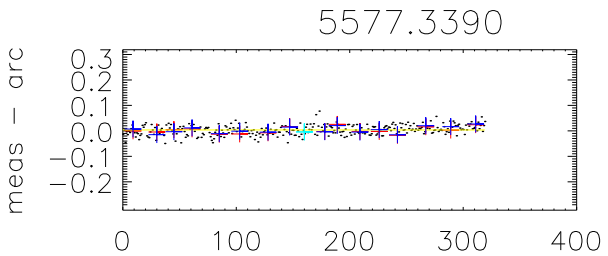

shift(pix)=−0.099
err(pix)= 0.057
oldshift(pix)=−0.101
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

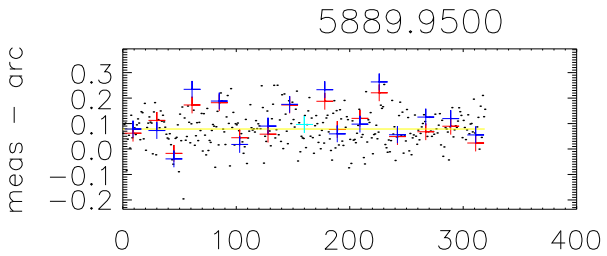

shift(pix)= 0.060
err(pix)= 0.045
oldshift(pix)= 0.101
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

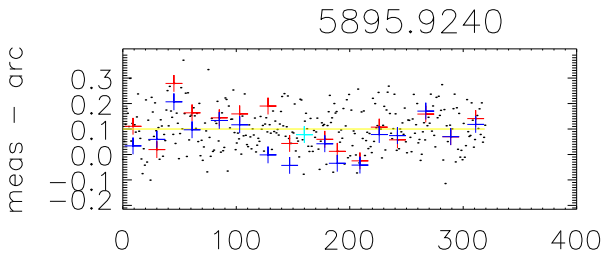

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

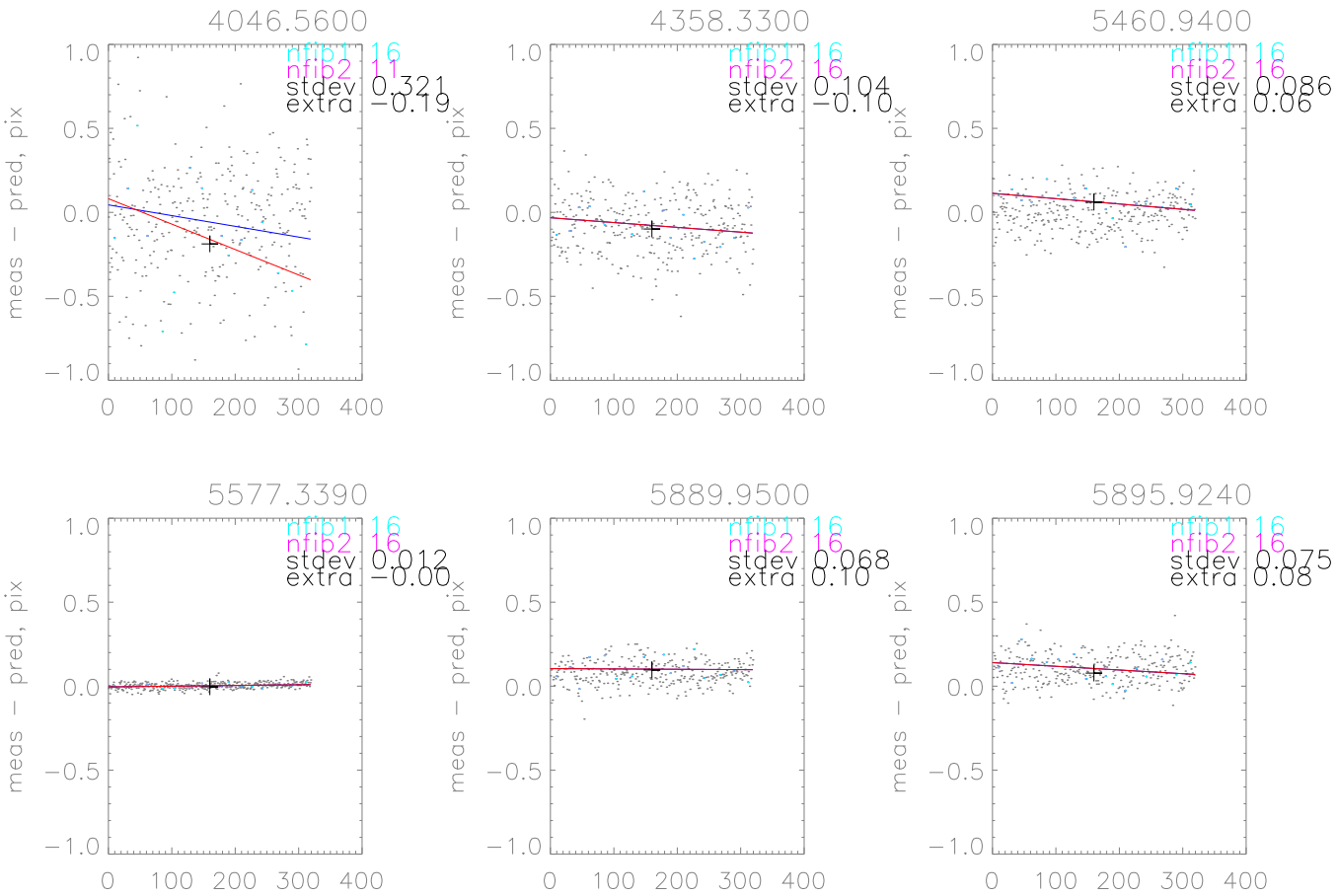

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

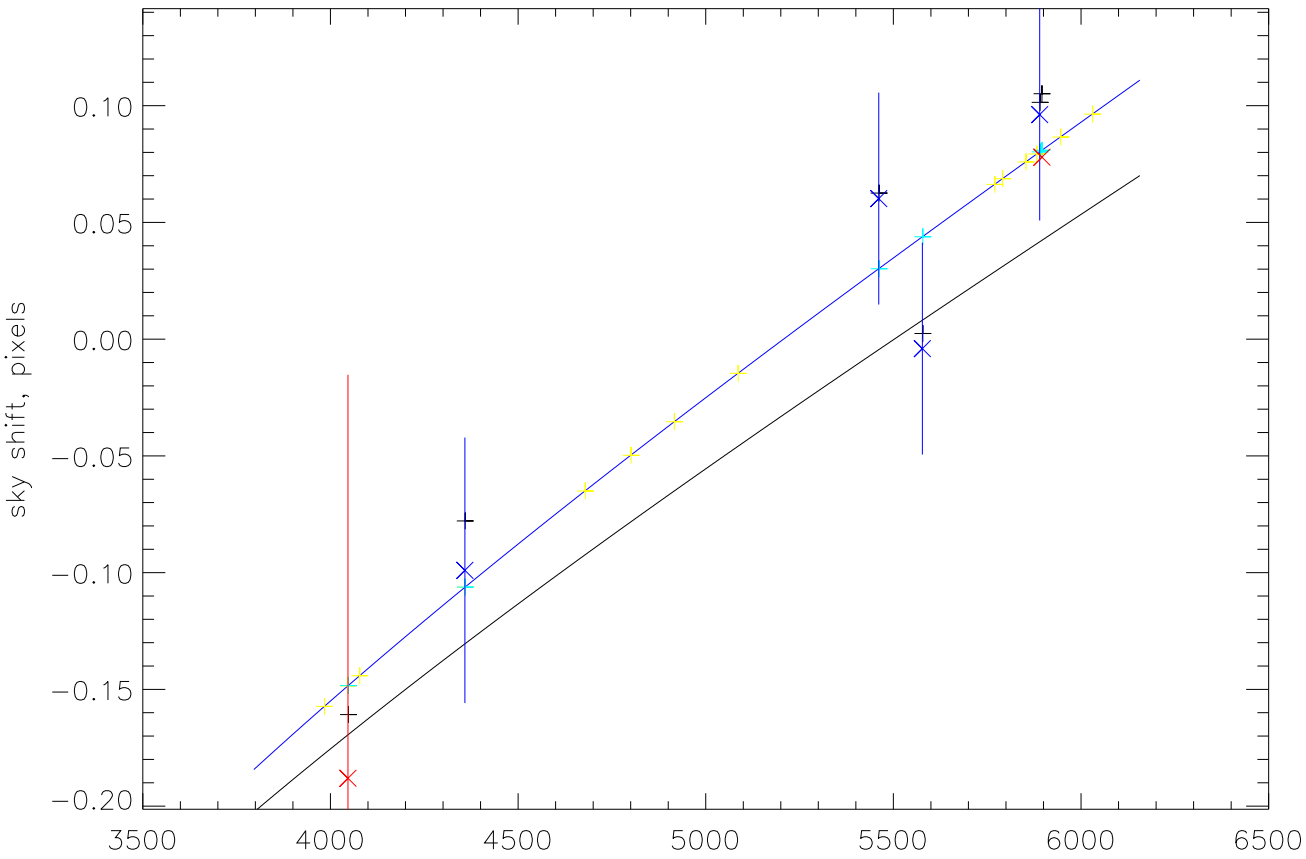

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

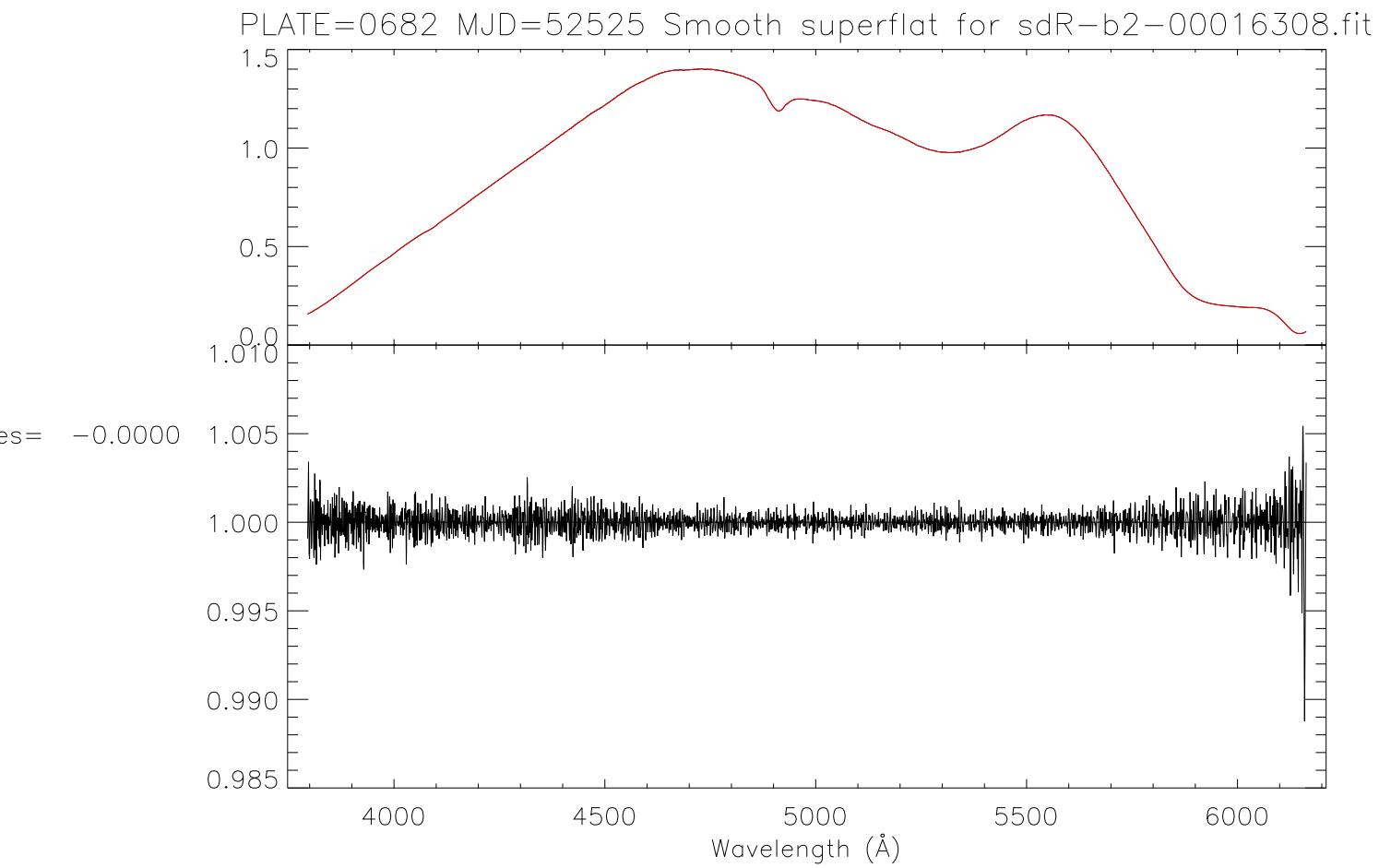

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

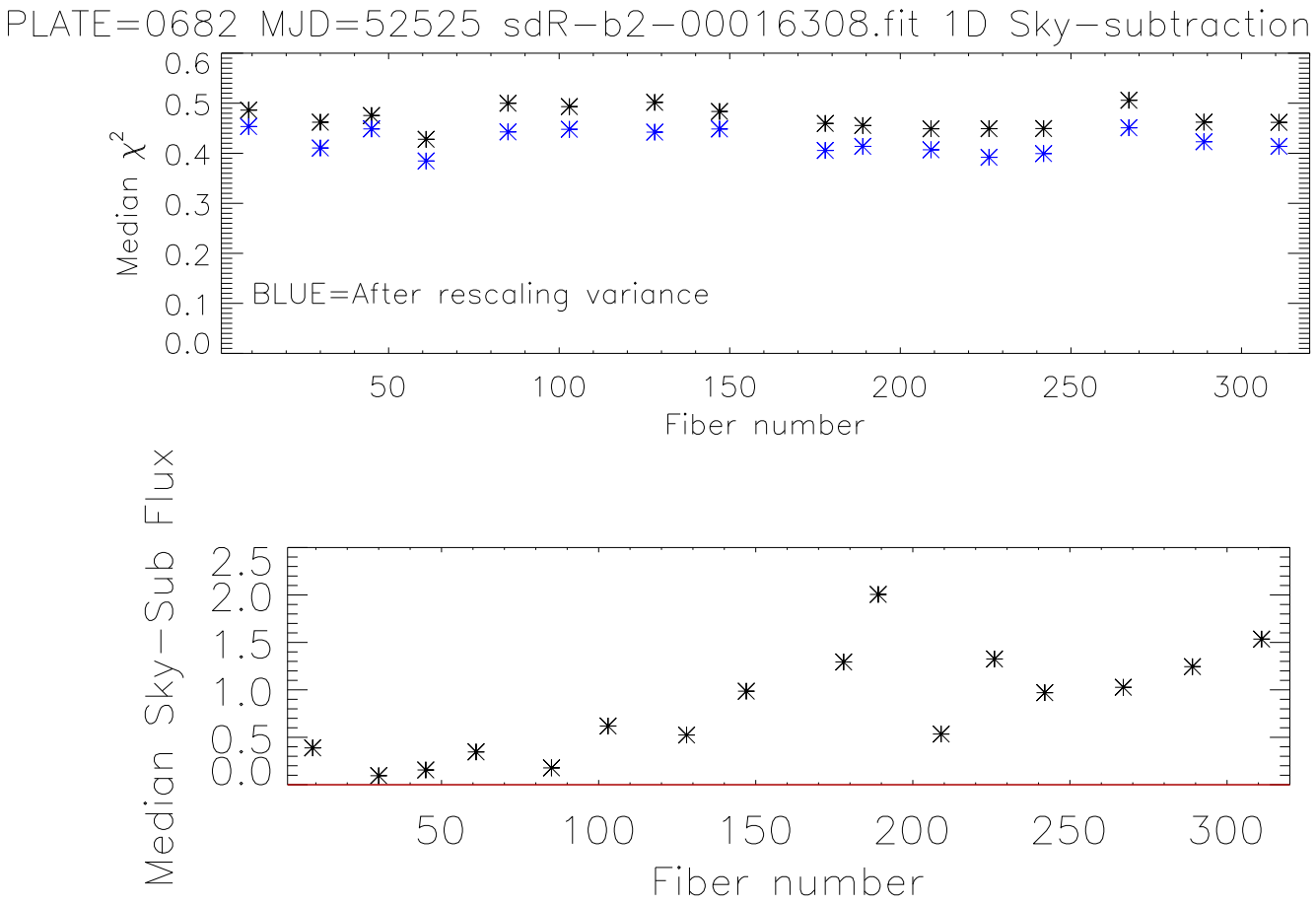

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

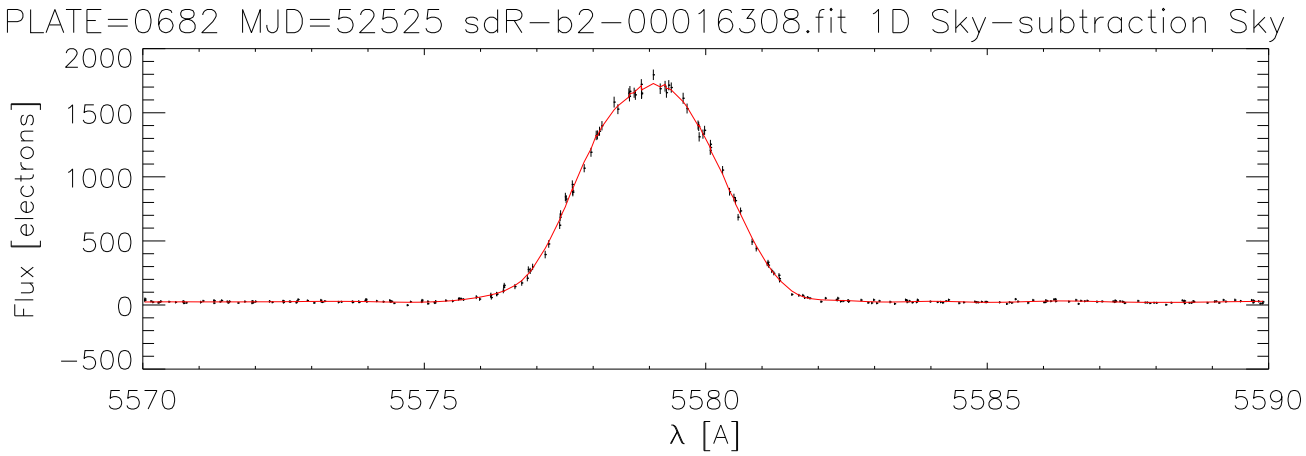

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

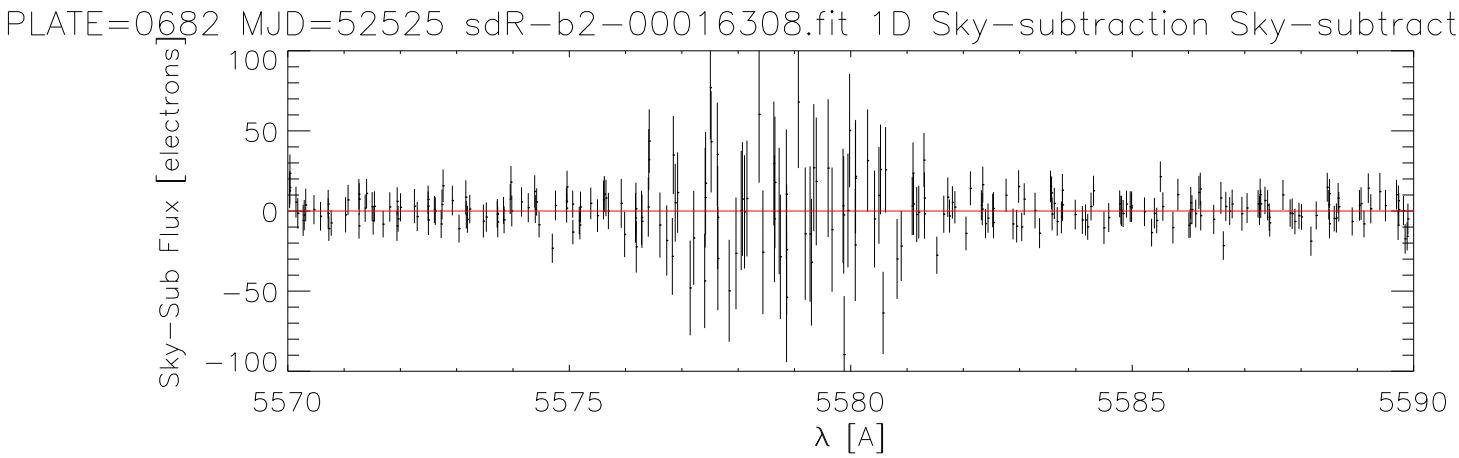

4046.5600
nfib1 16
nfib2 11
stdev 0.321
extra −0.19
4358.3300
nfib1 16
nfib2 16
stdev 0.104
extra −0.10
5460.9400
nfib1 16
nfib2 16
stdev 0.086
extra 0.06
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra −0.00
5889.9500
nfib1 16
nfib2 16
stdev 0.068
extra 0.10
5895.9240
nfib1 16
nfib2 16
stdev 0.075
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

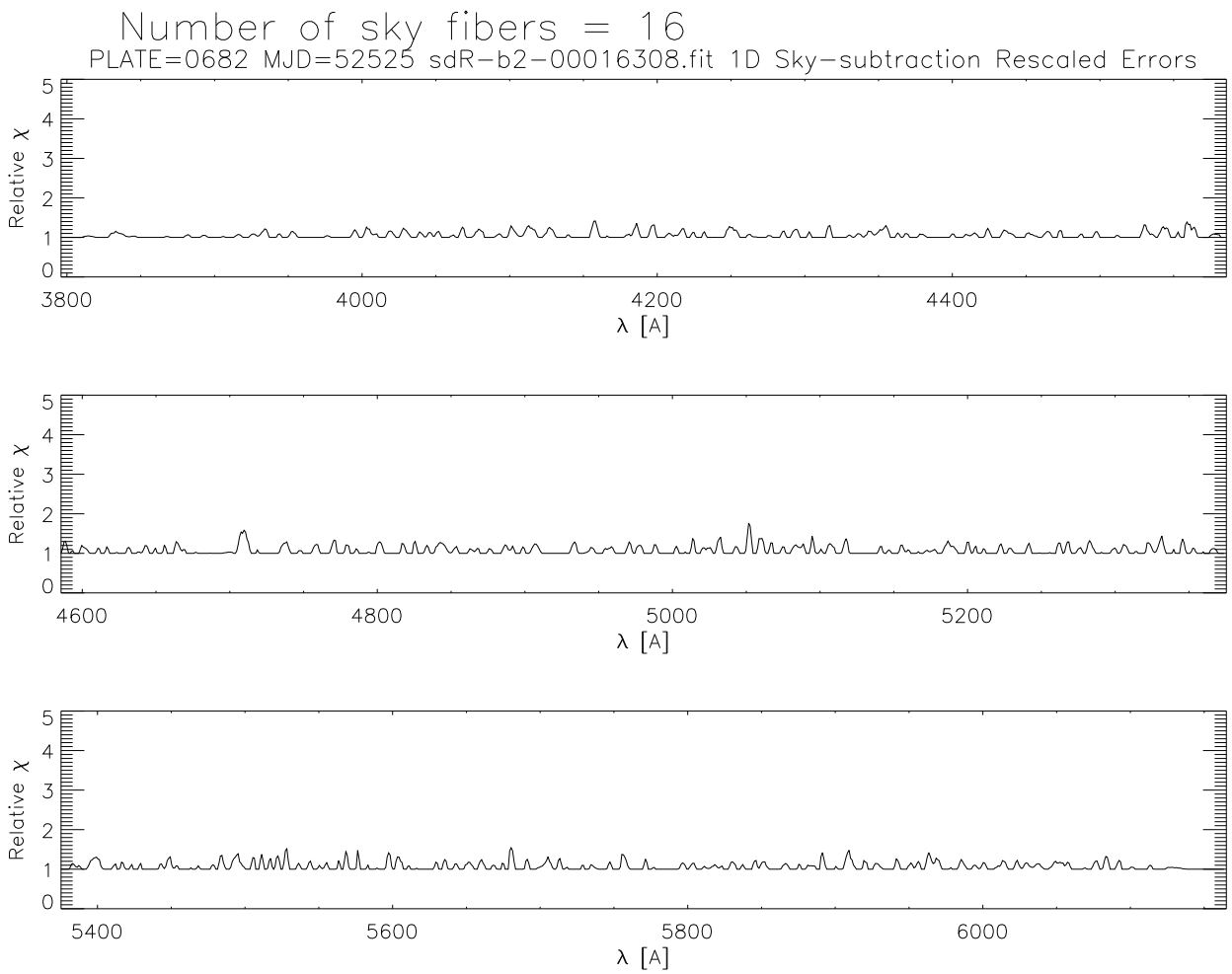

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

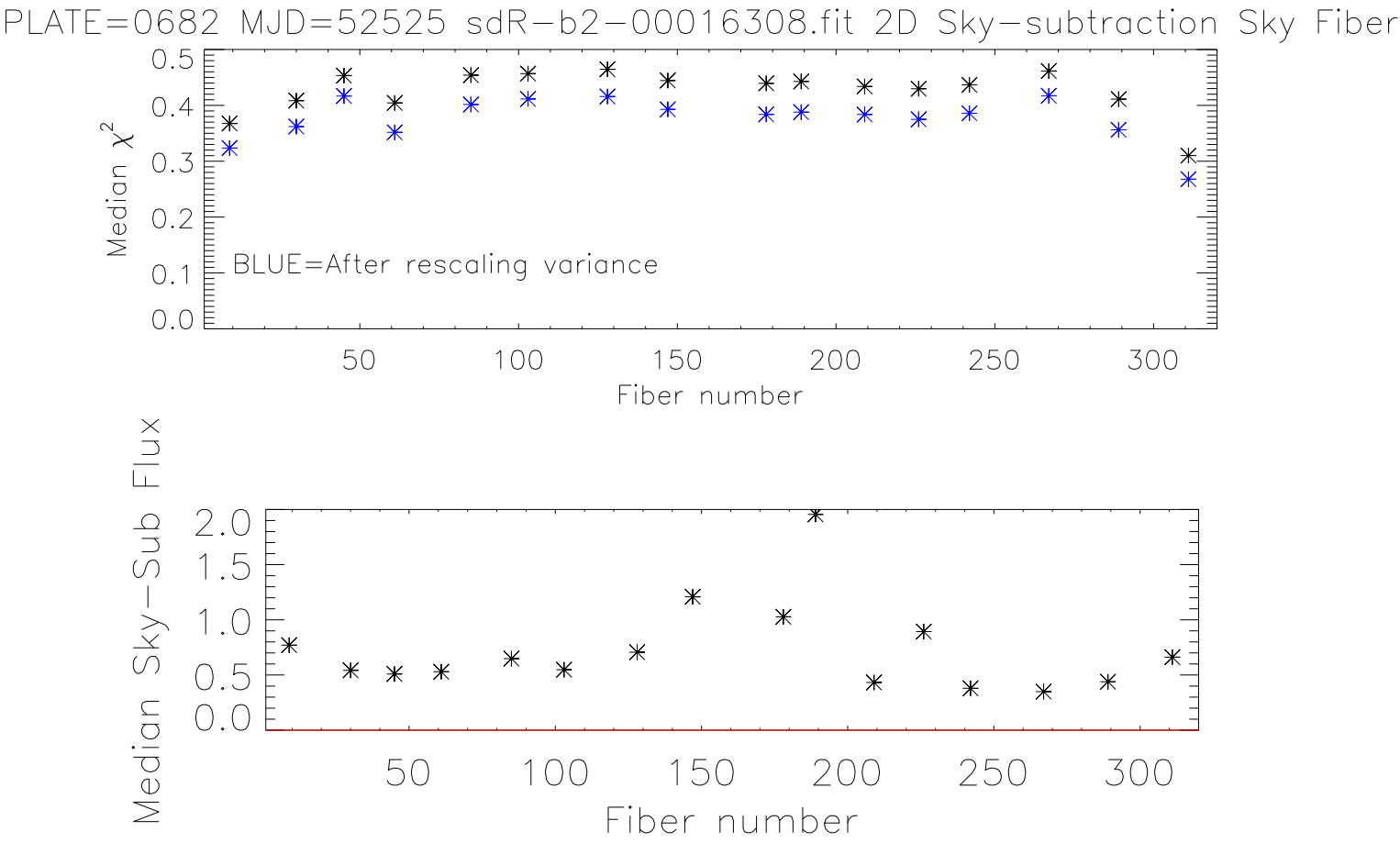

PLATE=0682 MJD=52525 Smooth superflat for sdR-b2-00016308.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

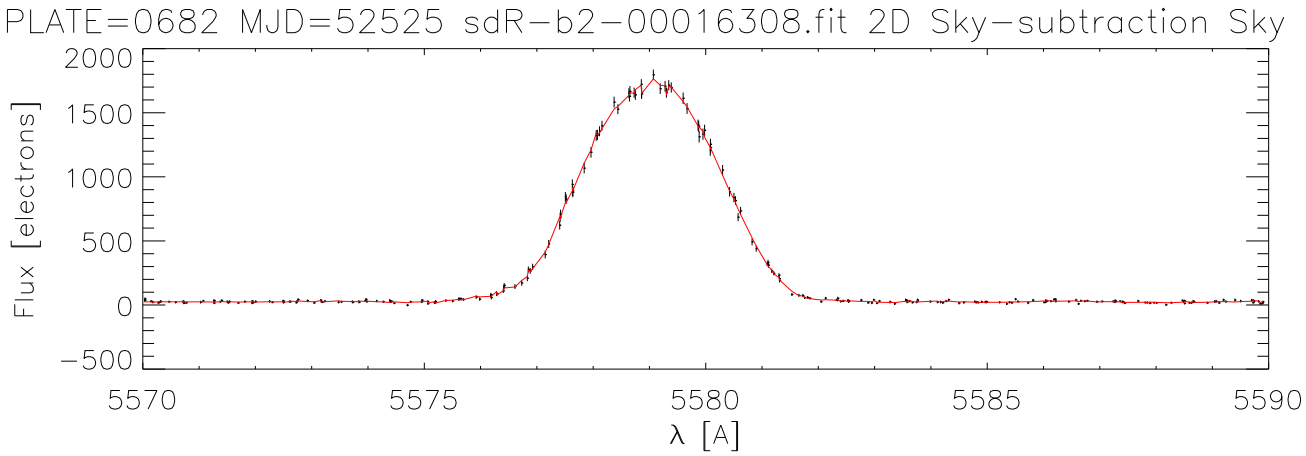

PLATE=0682 MJD=52525 sdR-b2-00016308.fit 1D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

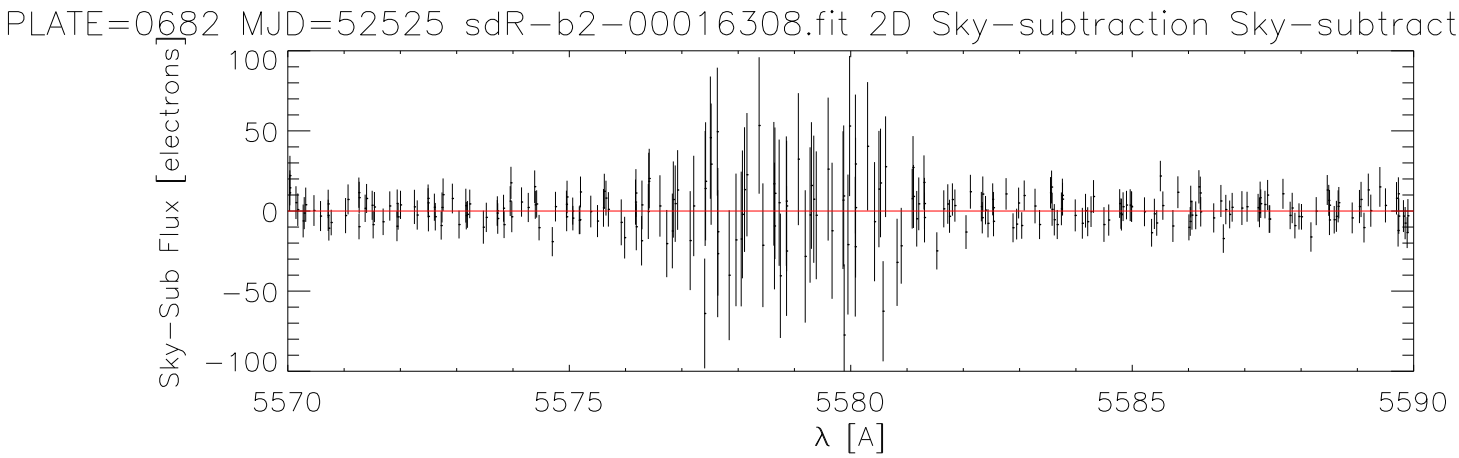

PLATE=0682 MJD=52525 sdR-b2-00016308.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

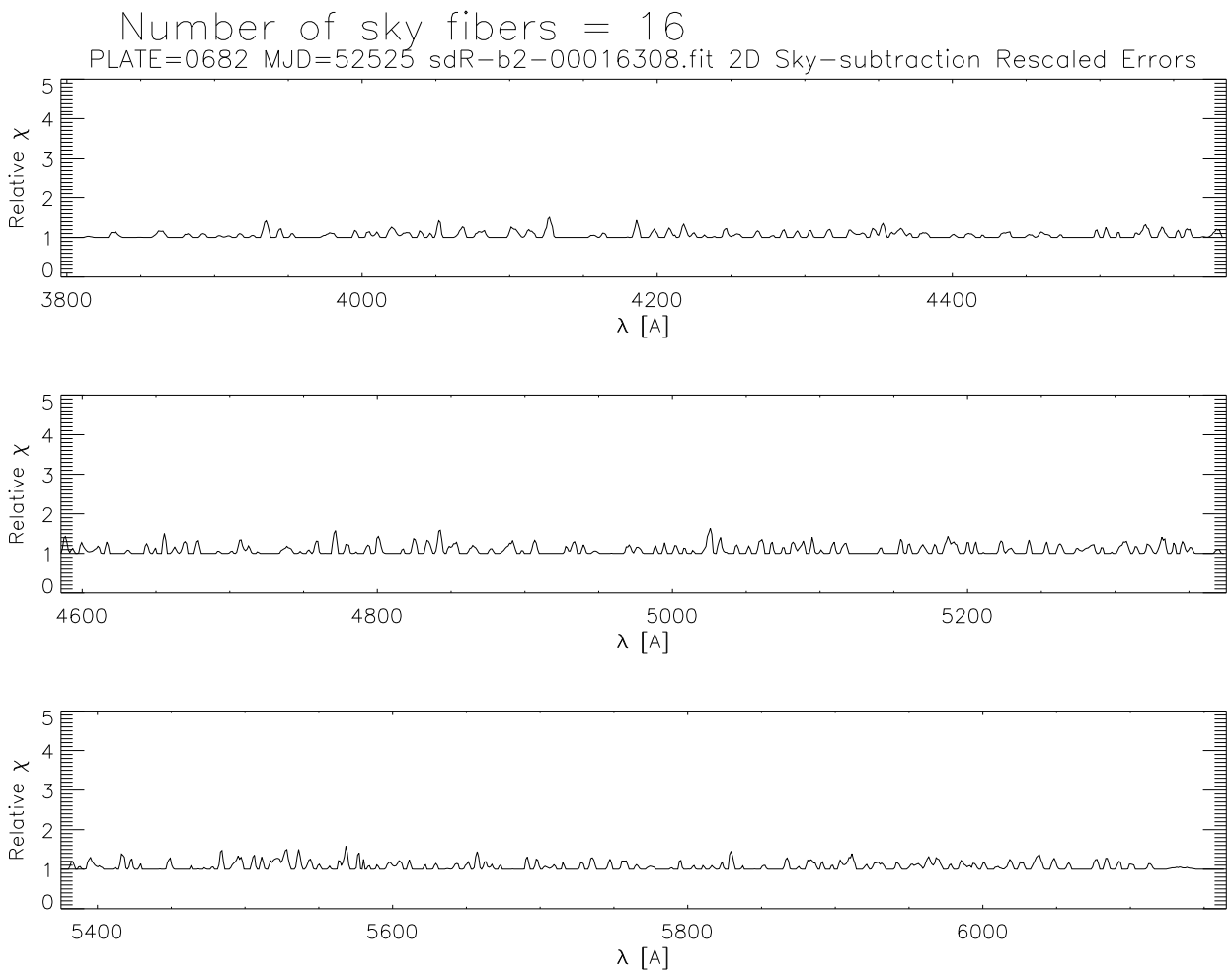

PLATE=0682 MJD=52525 sdR-b2-00016308.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

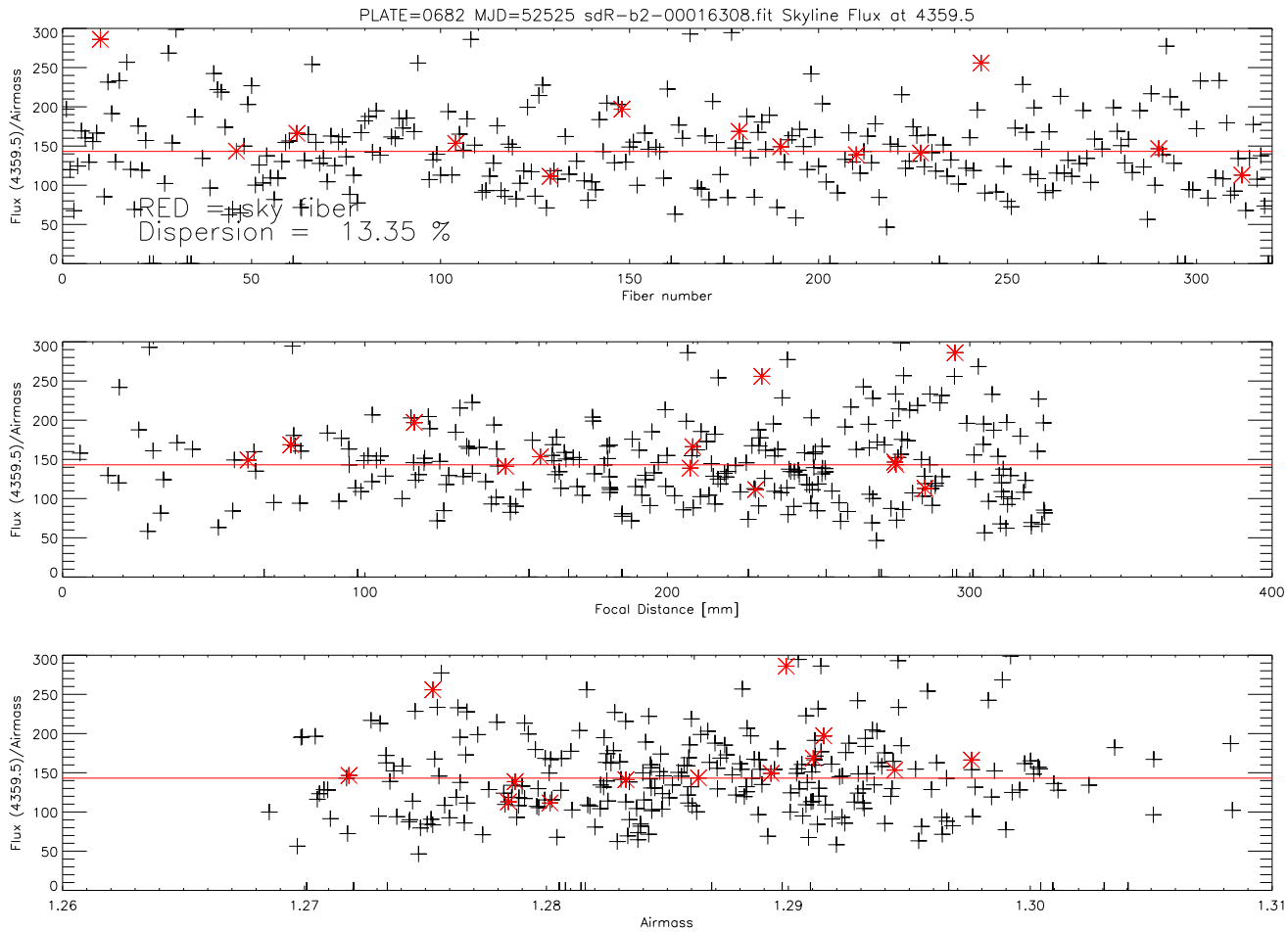

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b2-00016308.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

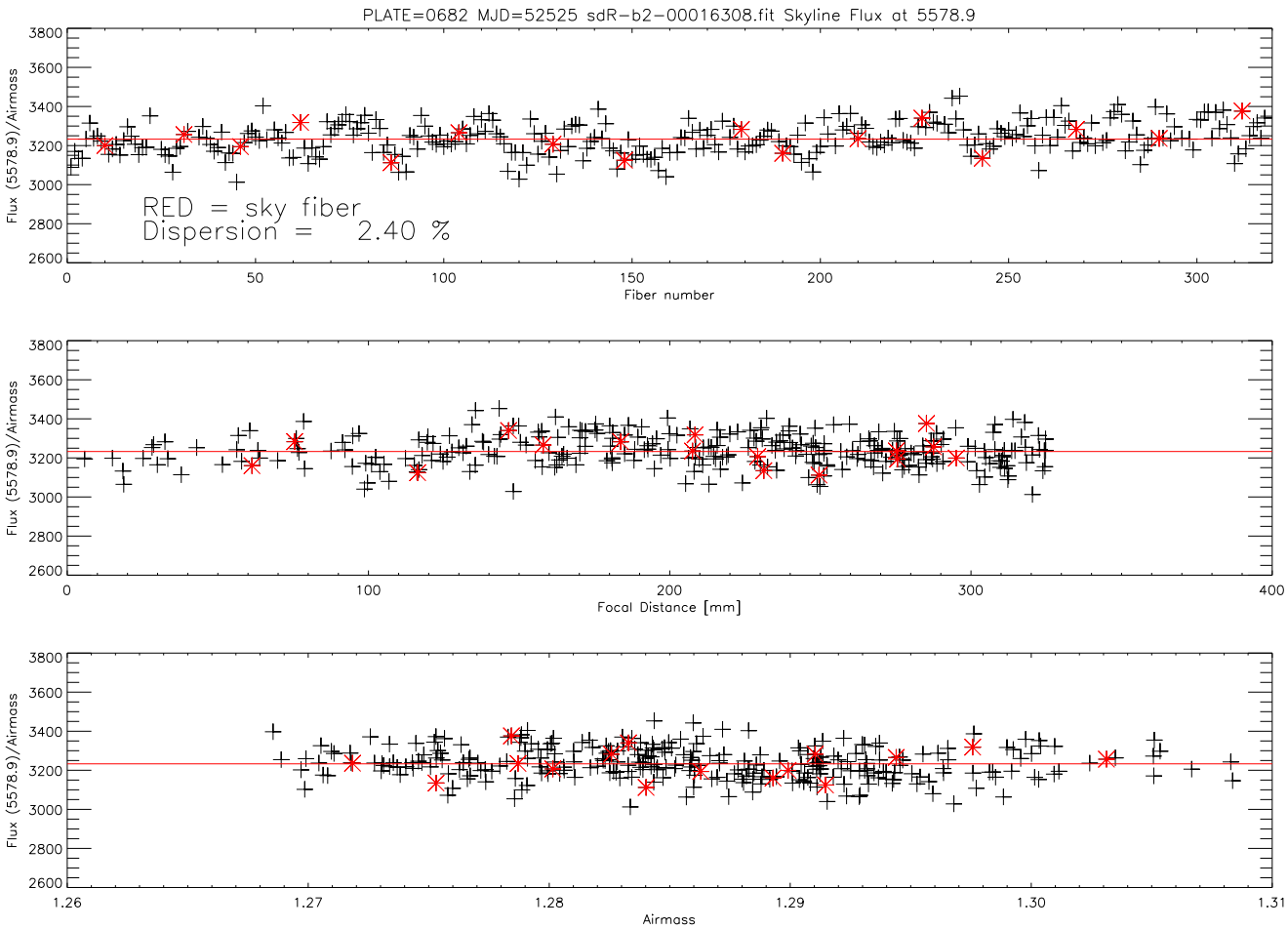

PLATE=0682 MJD=52525 sdR-b2-00016308.fit 2D Sky-subtraction Sky Fiber
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

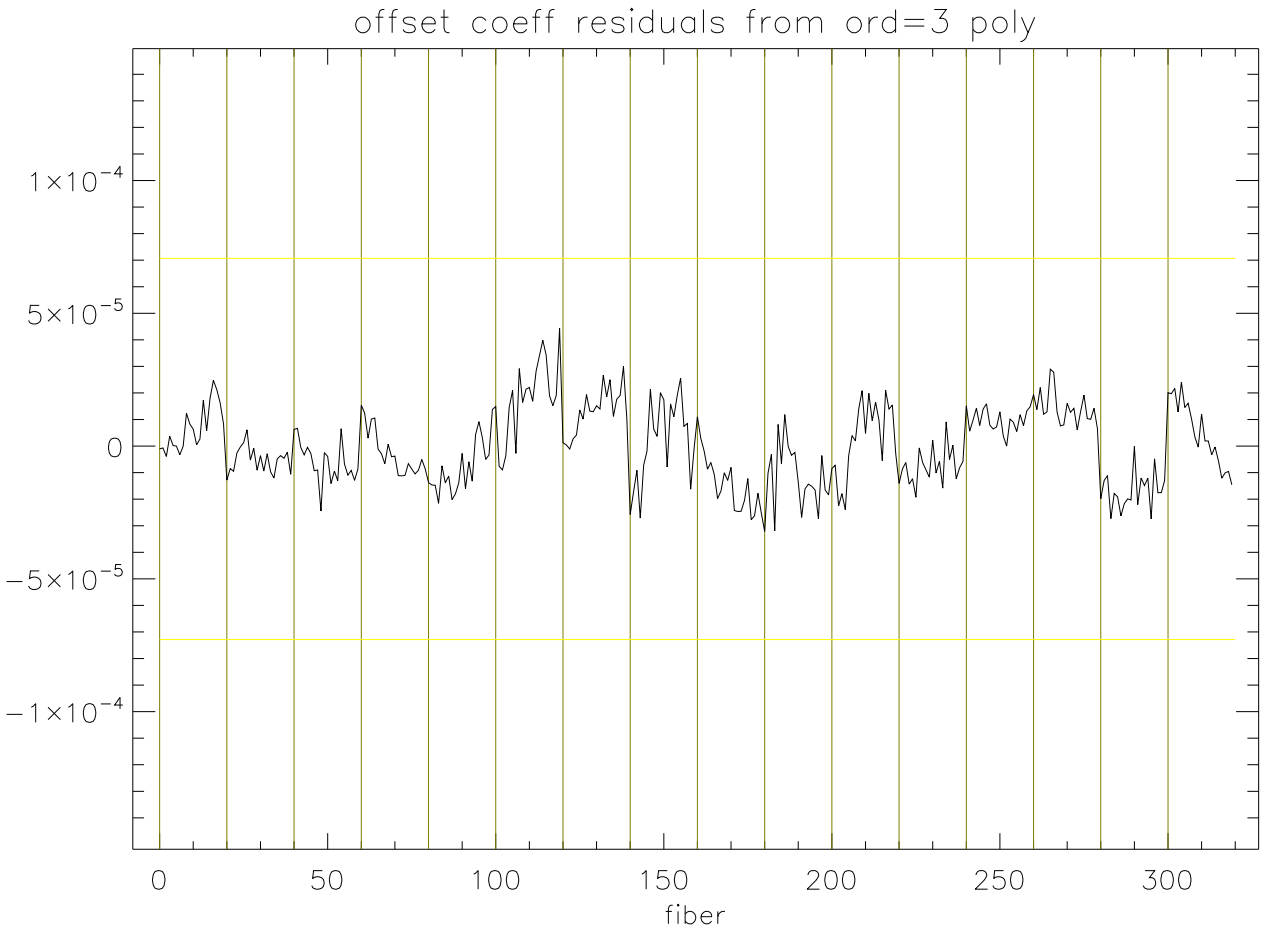

PLATE=0682 MJD=52525 sdR-b2-00016308.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

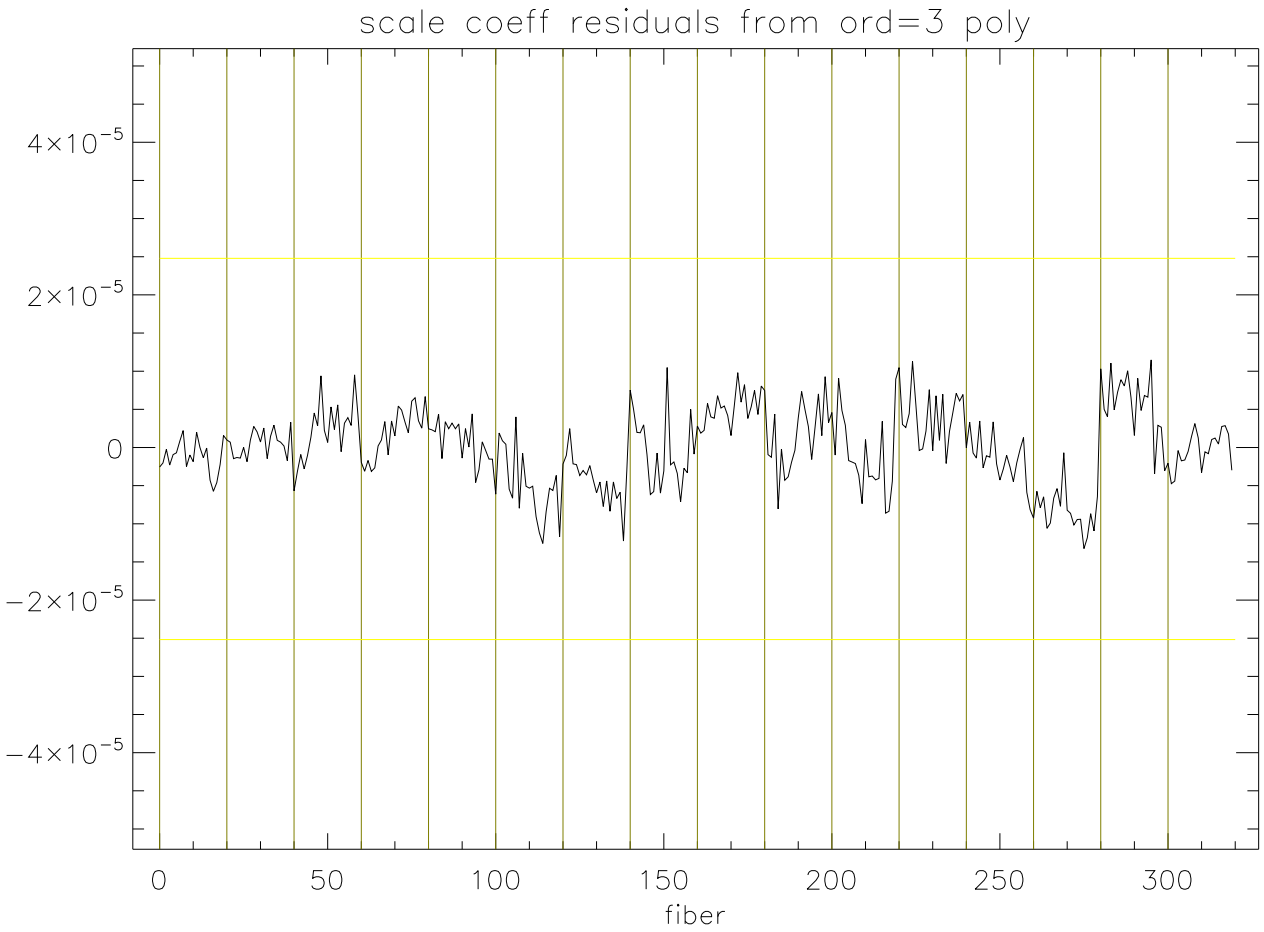

PLATE=0682 MJD=52525 sdR-b2-00016308.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

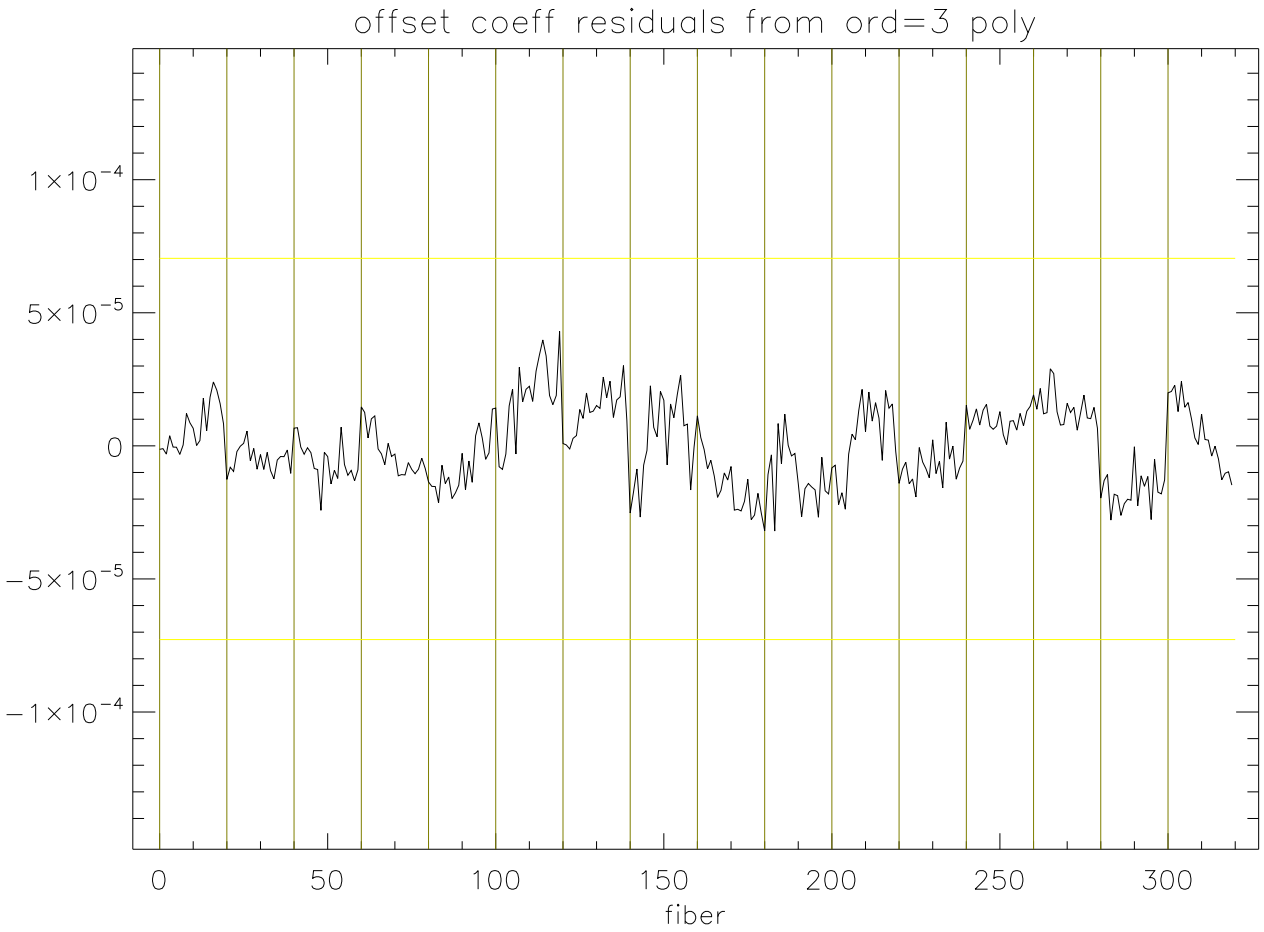

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-b2-00016308.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

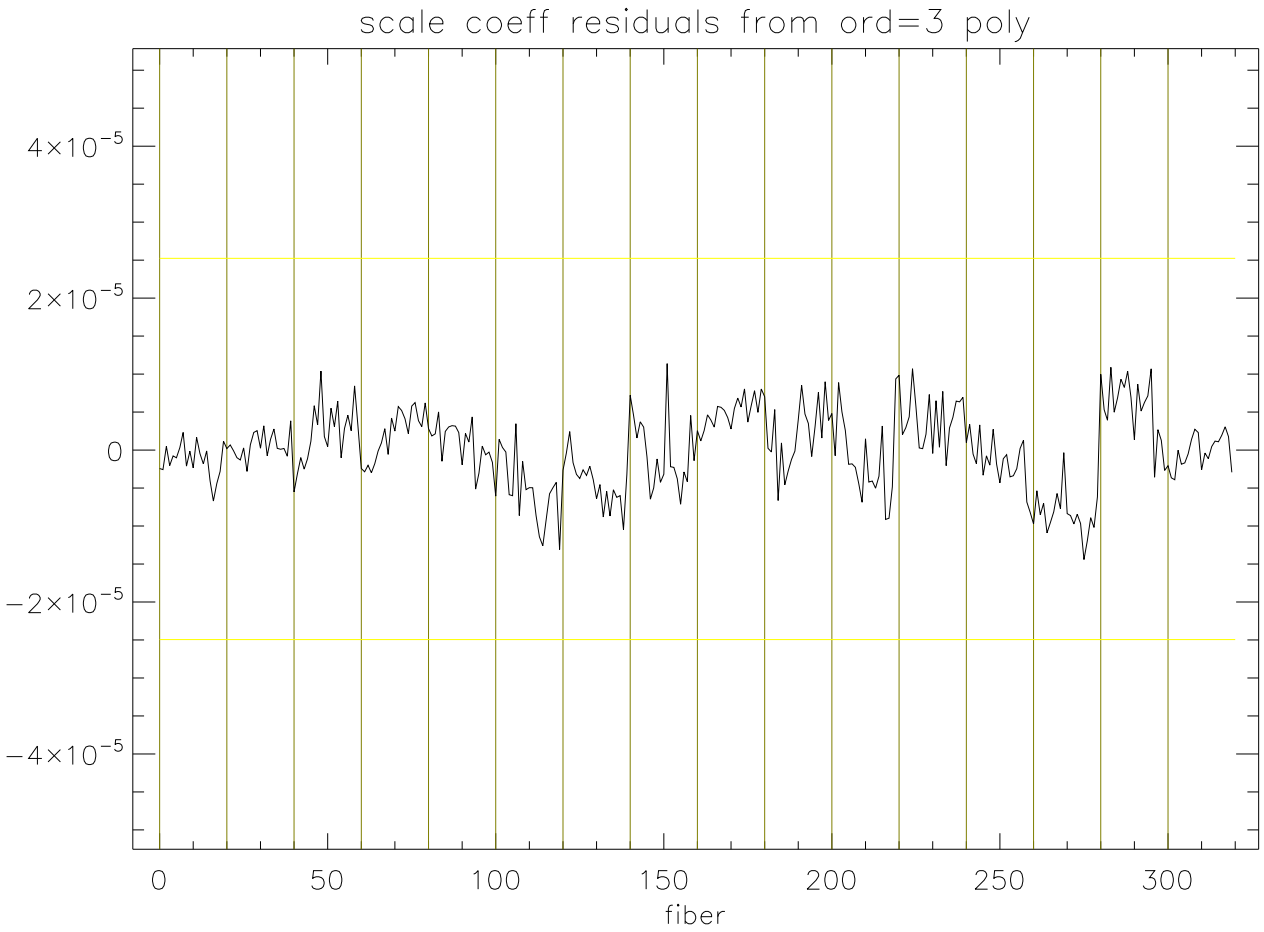

PLATE=0682 MJD=52525 sdR-b2-00016308.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 13.35 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

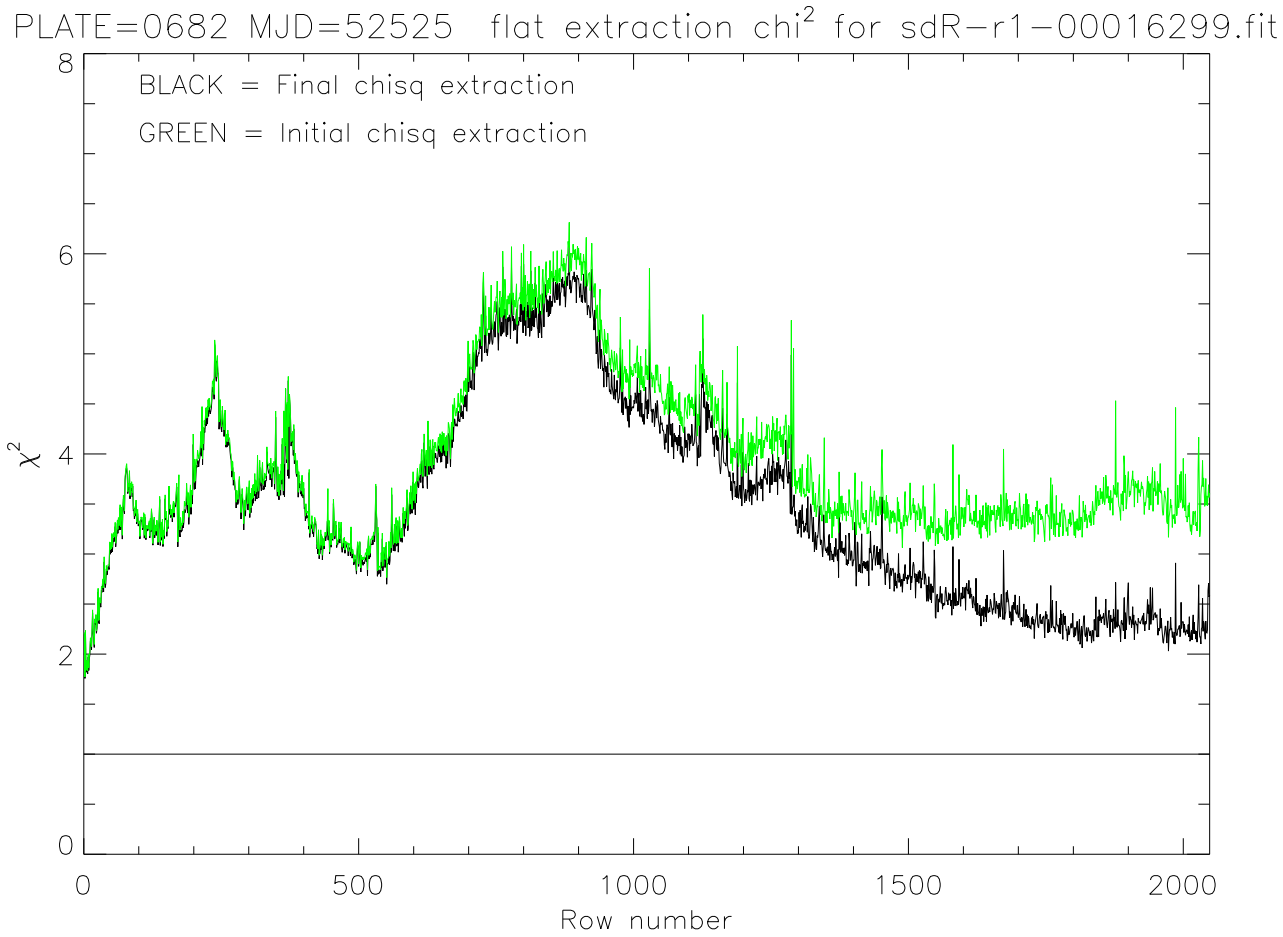

PLATE=0682 MJD=52525 sdR-b2-00016308.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.40 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

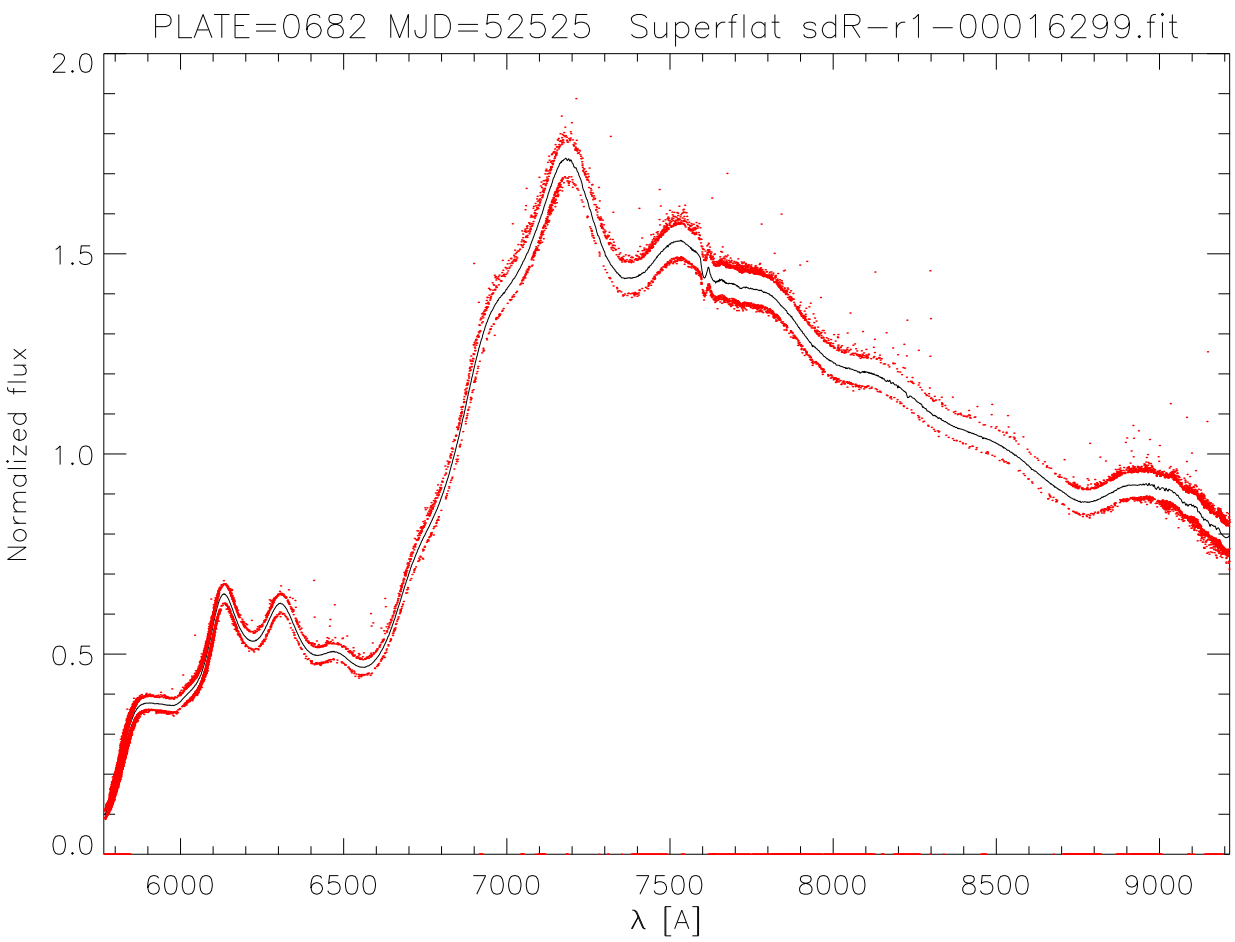

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

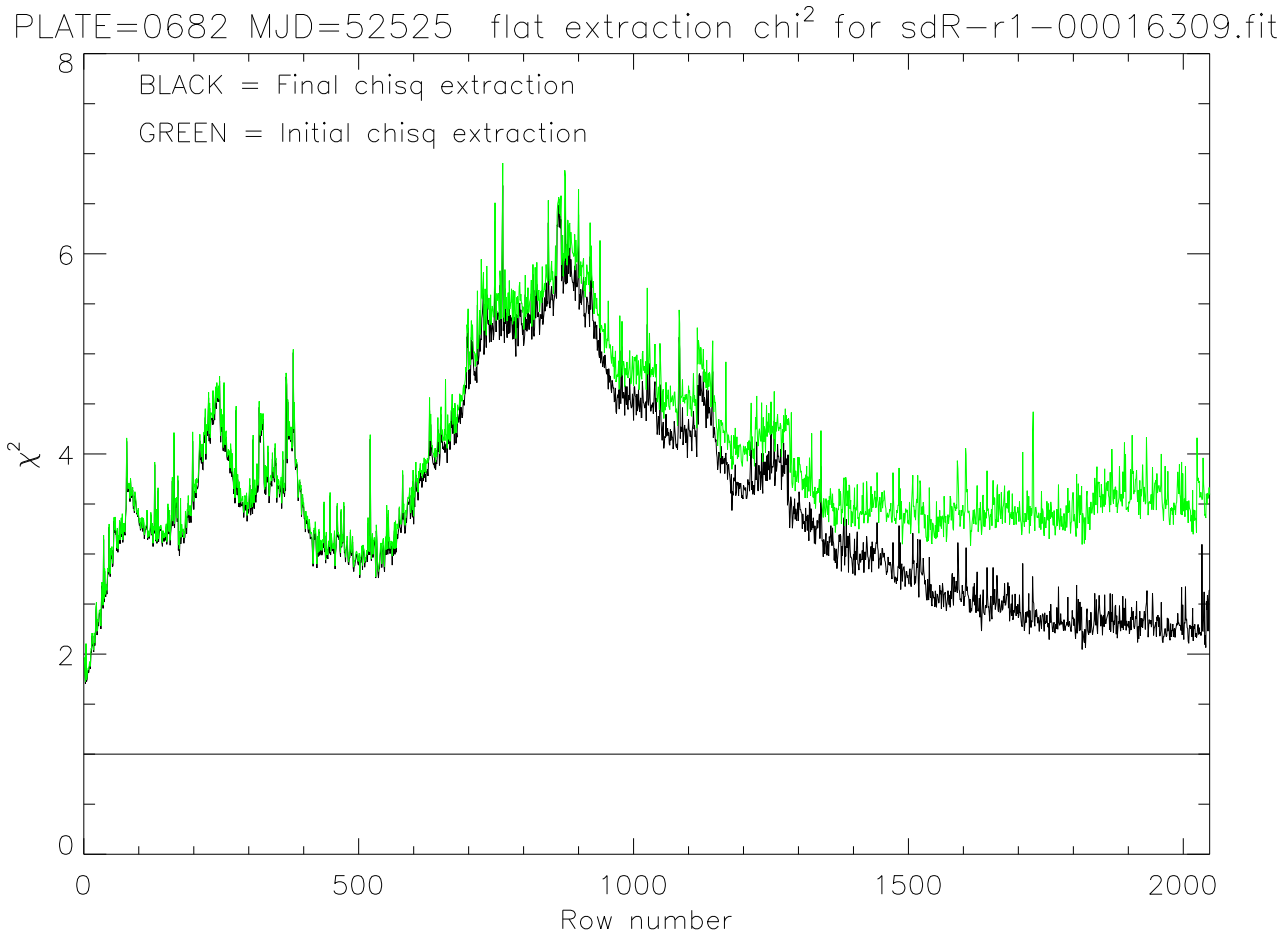

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

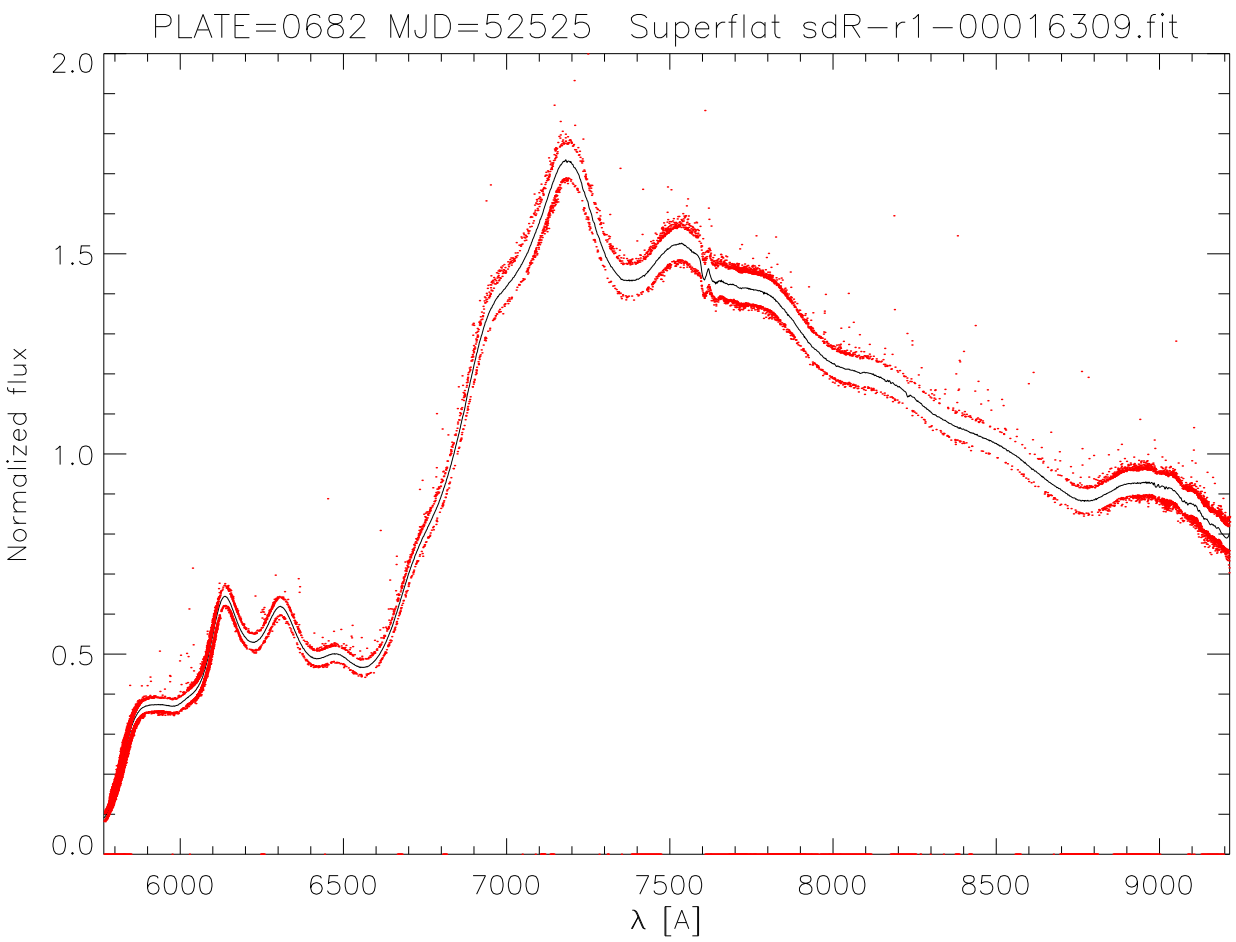

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

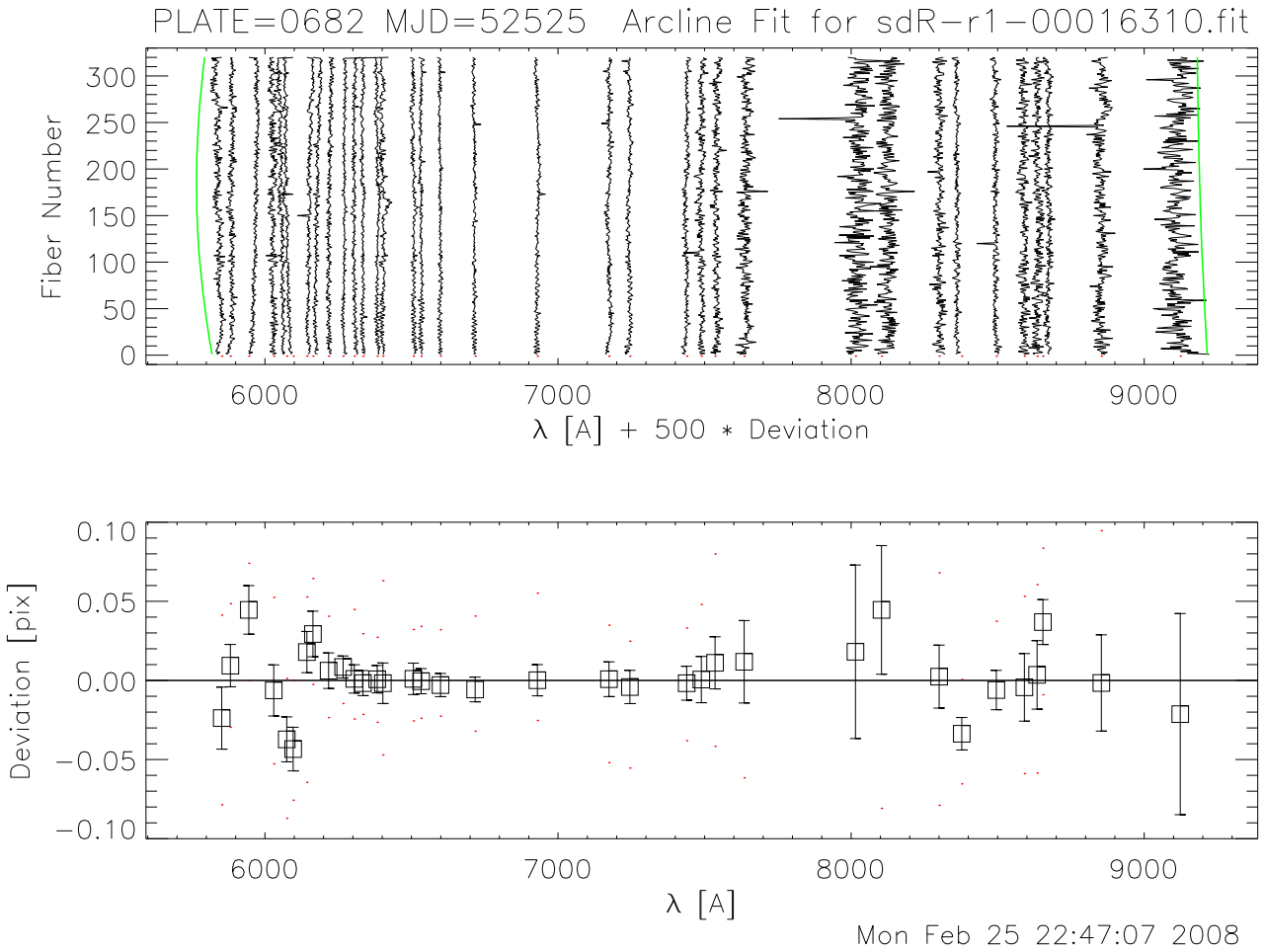

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

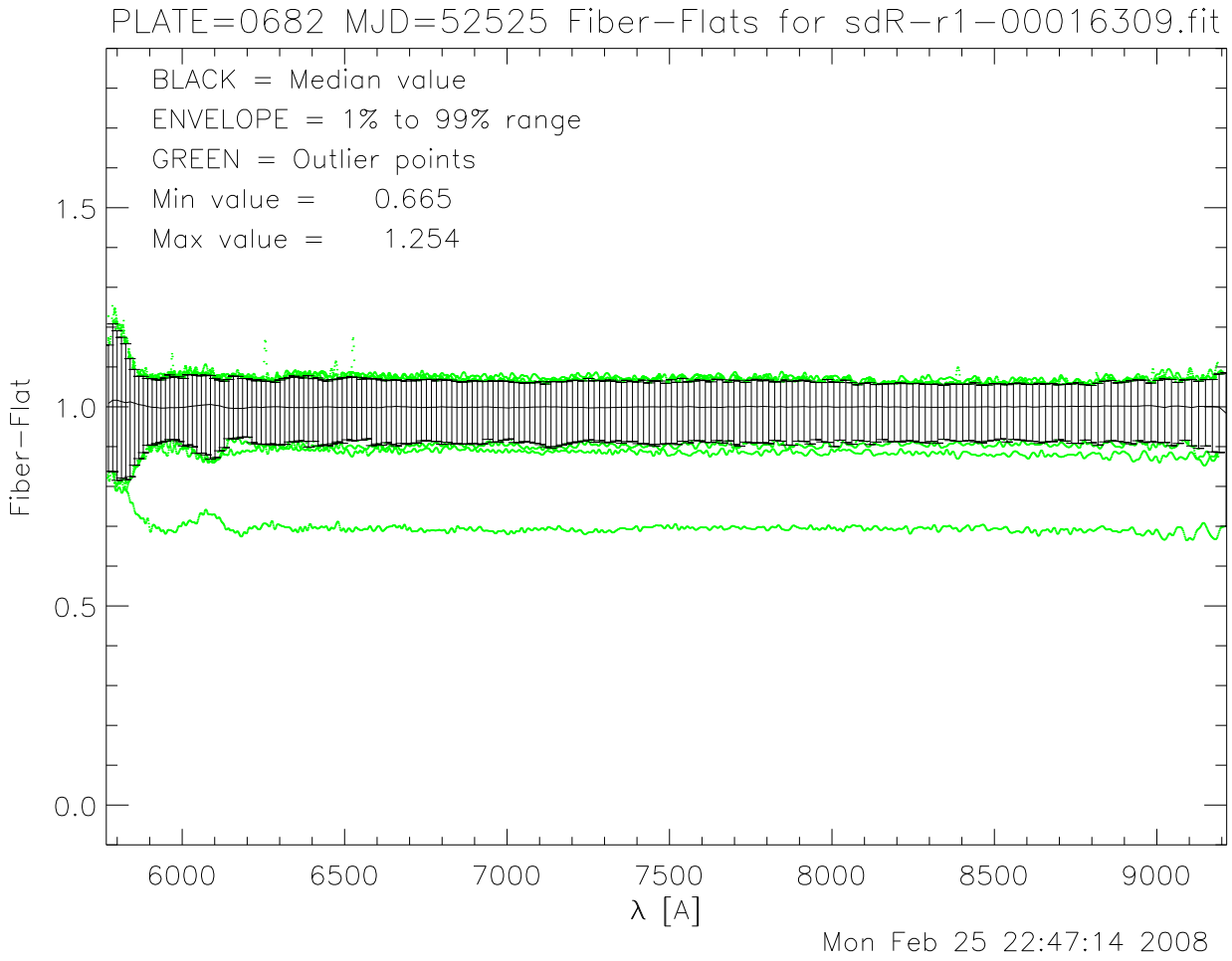

PLATE=0682 MJD=52525 flat extraction chi$^2$ for sdR−r1−00016299.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
8
0
500
1000
1500
2000
Row number

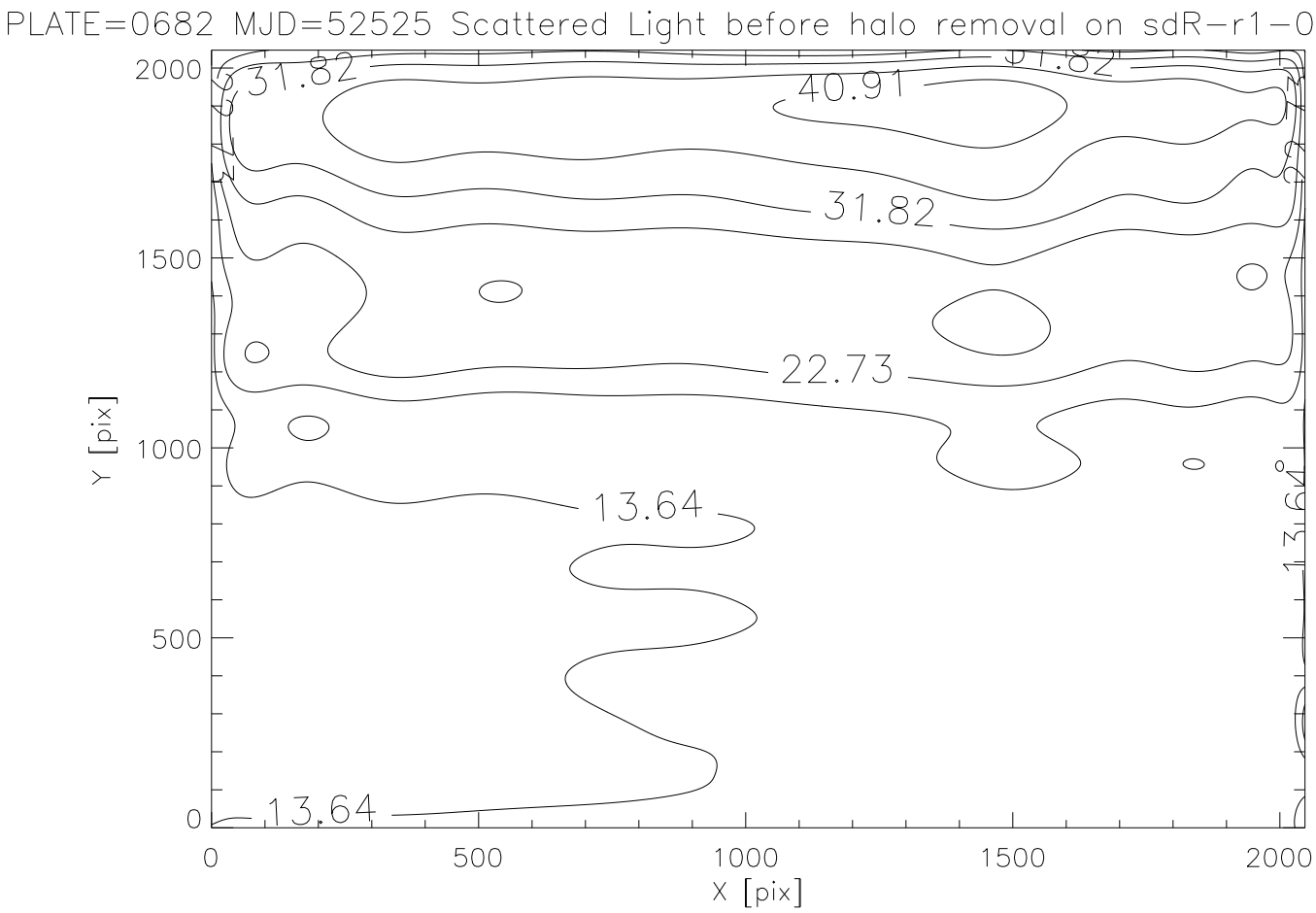

PLATE=0682 MJD=52525 Superflat sdR-r1-00016299.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

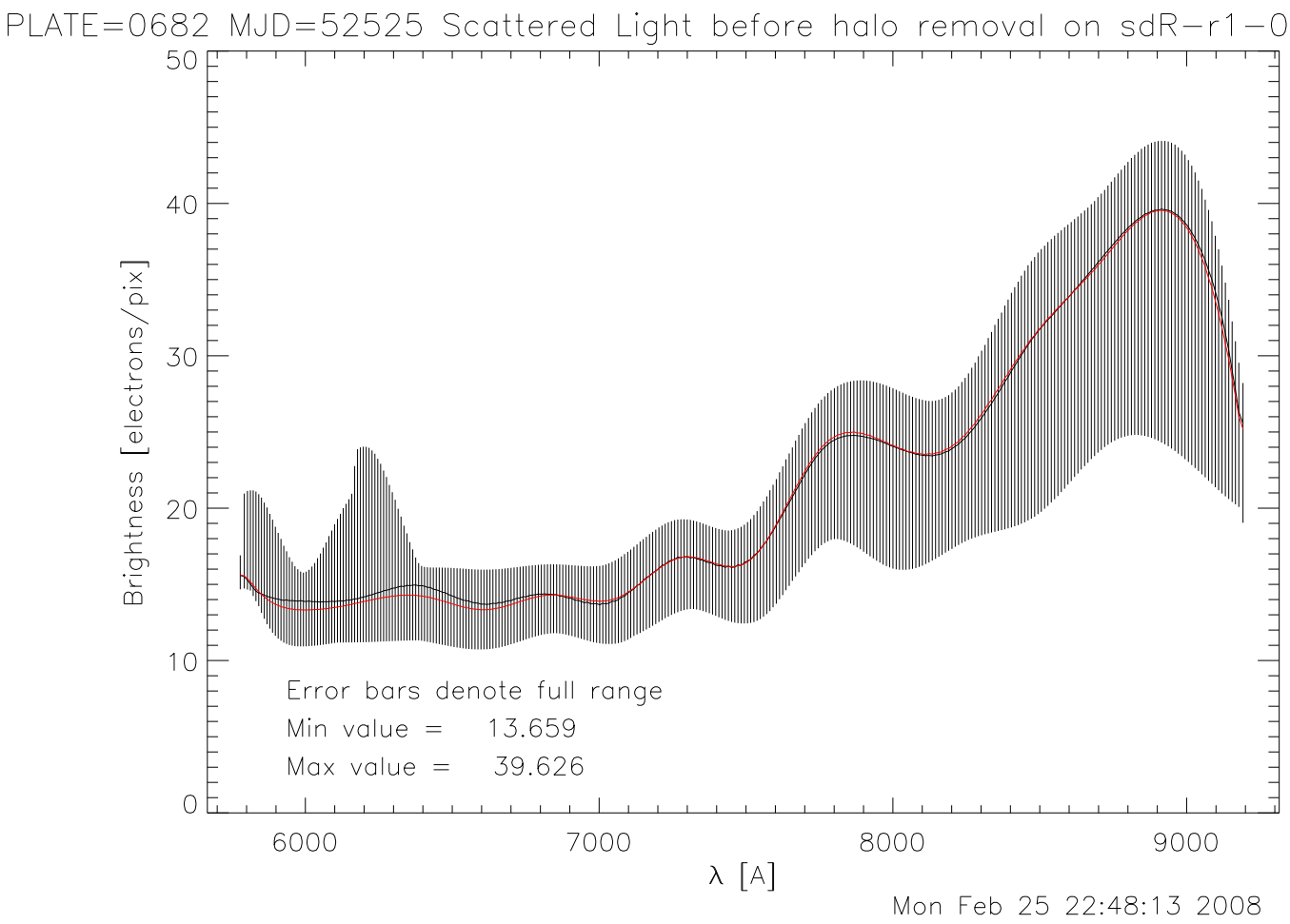

PLATE=0682 MJD=52525 flat extraction chi$^2$ for sdR−r1−00016309.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
2
4
6
8
0
500
1000
1500
2000
Row number

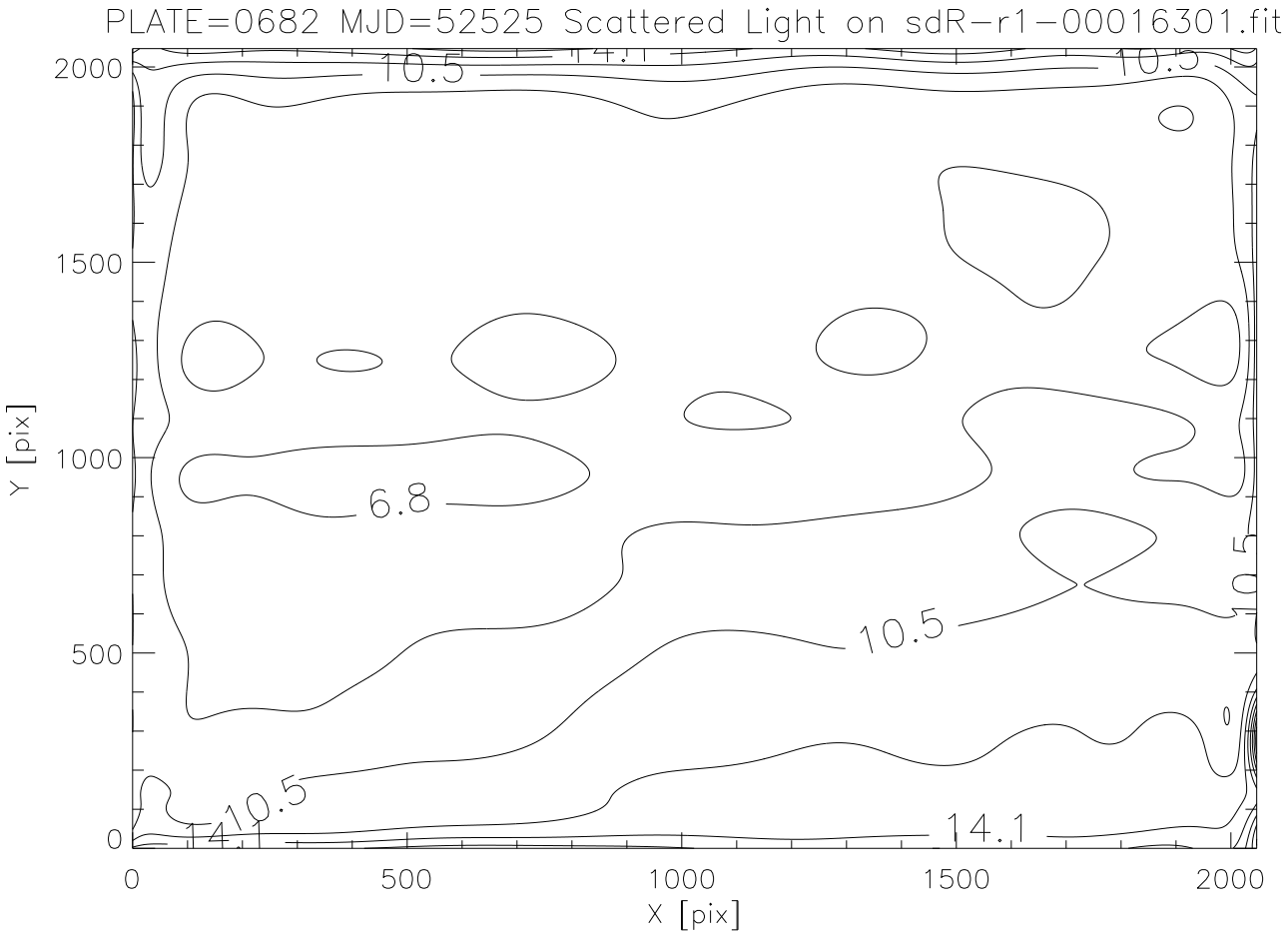

PLATE=0682 MJD=52525 Superflat sdR-r1-00016309.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

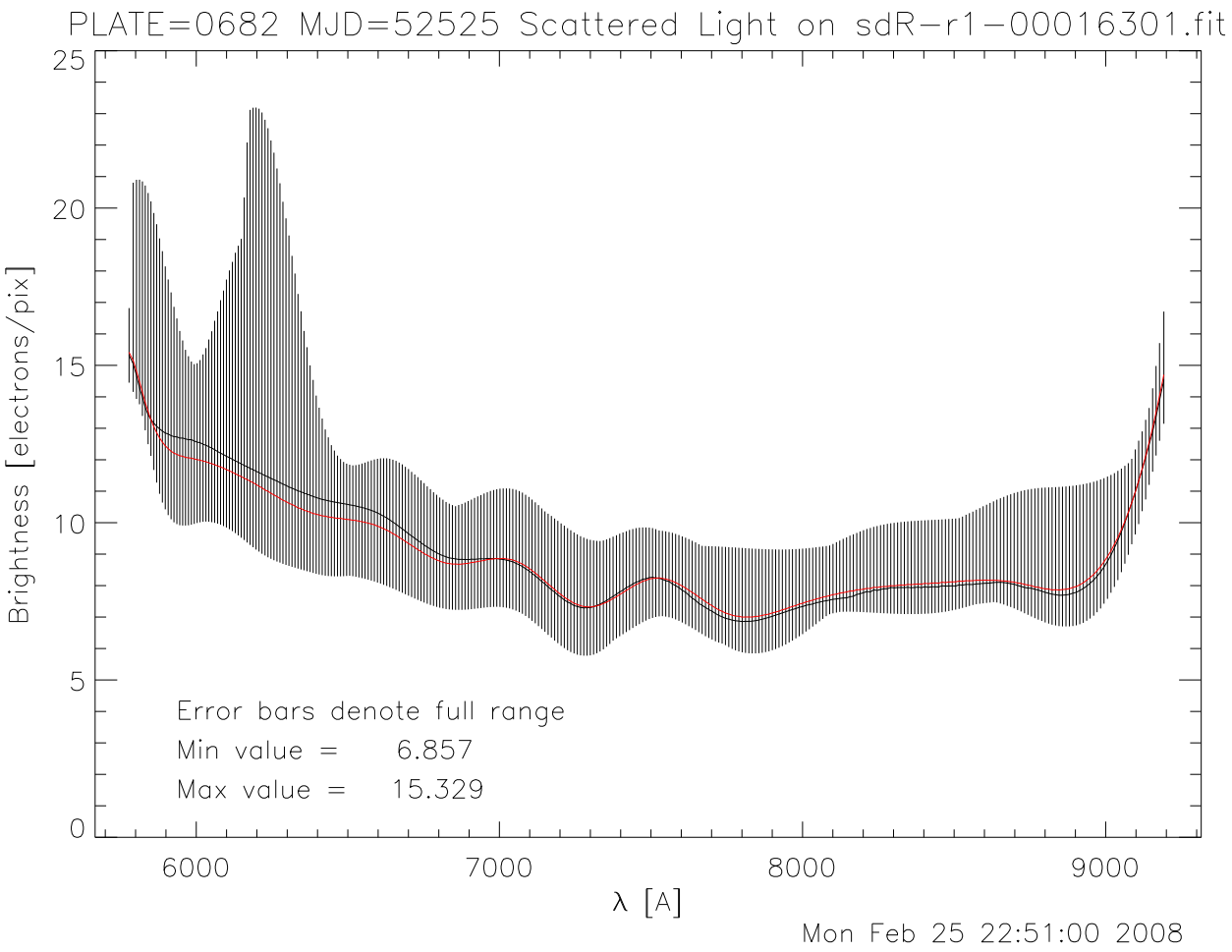

PLATE=0682 MJD=52525 Arcline Fit for sdR-r1-00016310.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 22:47:07 2008

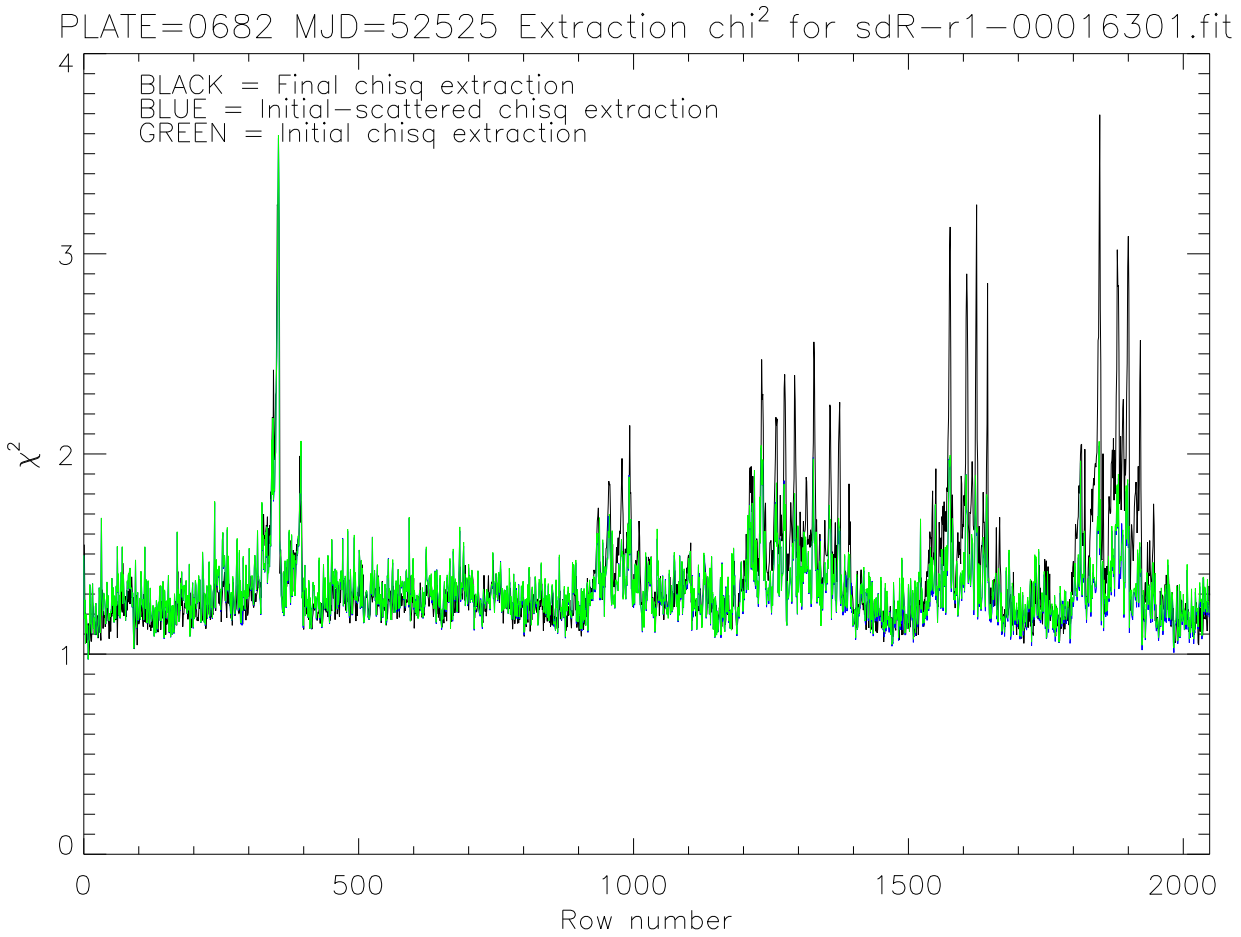

PLATE=0682 MJD=52525 Fiber−Flats for sdR−r1−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.665
Max value = 1.254
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 22:47:14 2008

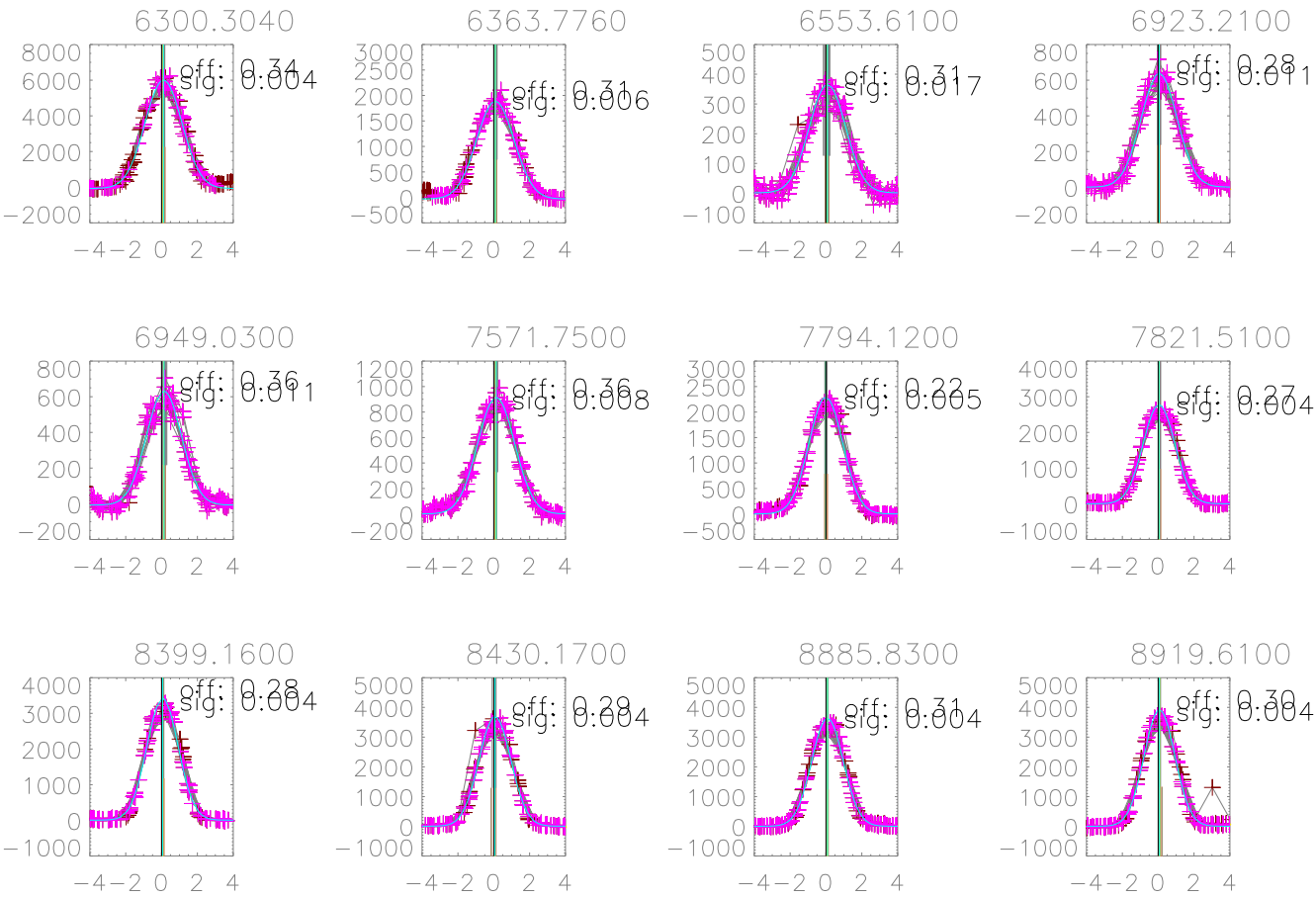

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r1-00016301.fi
31.82
40.91
31.82
22.73
13.64
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

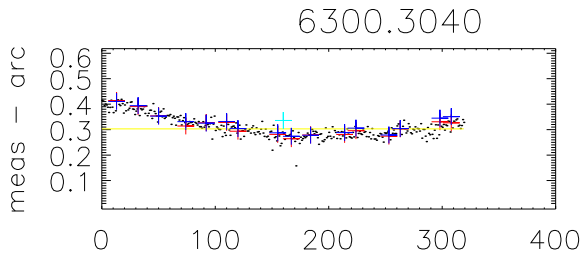

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r1-00016301.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.659
Max value = 39.626
Mon Feb 25 22:48:13 2008

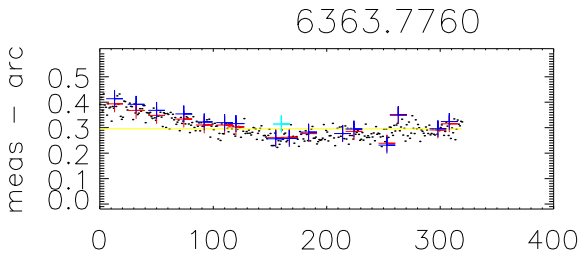

PLATE=0682 MJD=52525 Scattered Light on sdR-r1-00016301.fit
10.5
14.1
6.8
10.5
10.5
10.5
14.1
0
500
1000
1500
2000
Y [pix]
X [pix]

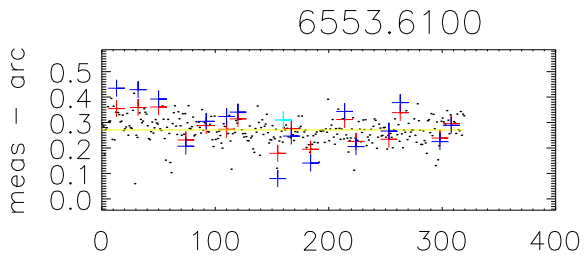

PLATE=0682 MJD=52525 Scattered Light on sdR-r1-00016301.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.857
Max value = 15.329
Mon Feb 25 22:51:00 2008

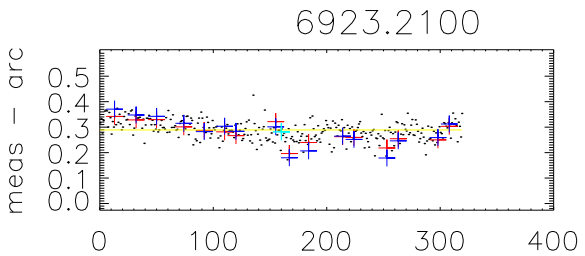

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR−r1−00016301.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
1
2
3
4
0
500
1000
1500
2000
Row number

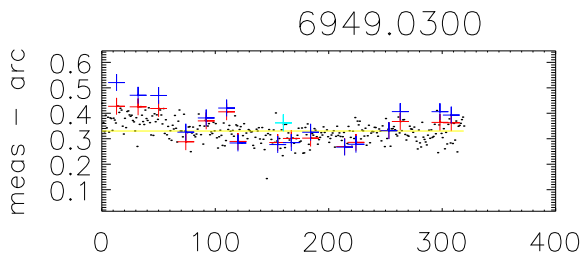

6300.3040
off: 0.34
sig: 0.004
6363.7760
off: 0.31
sig: 0.006
6553.6100
off: 0.31
sig: 0.017
6923.2100
off: 0.28
sig: 0.011
6949.0300
off: 0.36
sig: 0.011
7571.7500
off: 0.36
sig: 0.008
7794.1200
off: 0.22
sig: 0.005
7821.5100
off: 0.27
sig: 0.004
8399.1600
off: 0.28
sig: 0.004
8430.1700
off: 0.29
sig: 0.004
8885.8300
off: 0.31
sig: 0.004
8919.6100
off: 0.30
sig: 0.004

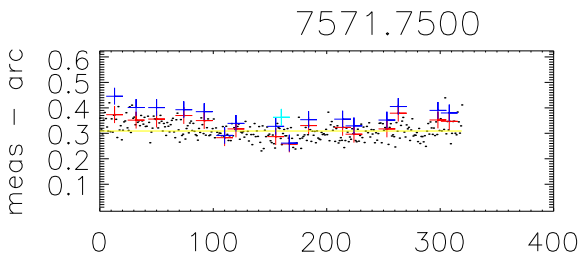

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

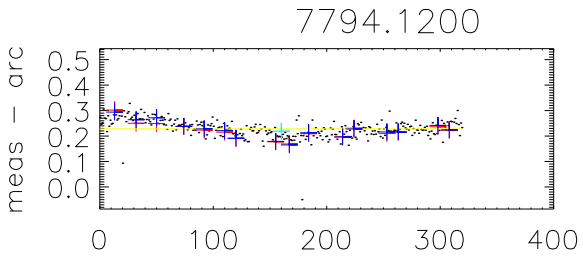

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

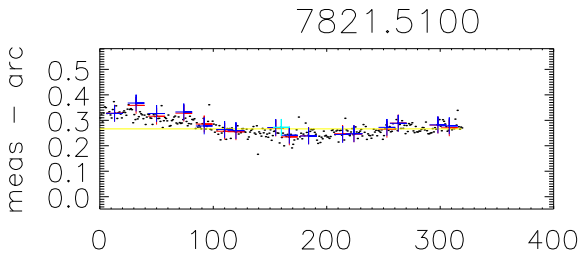

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

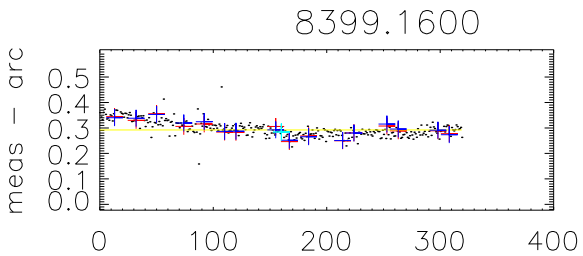

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

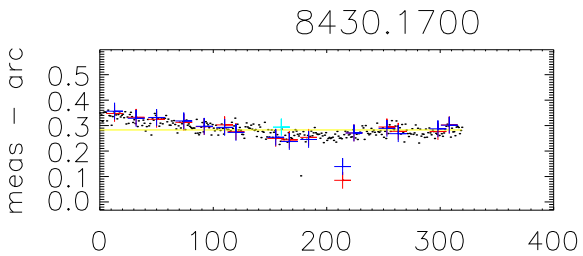

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

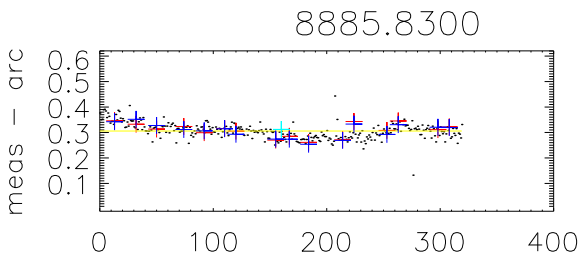

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

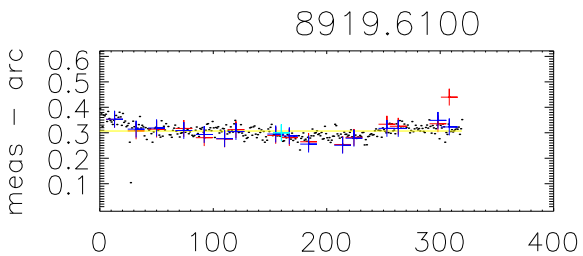

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

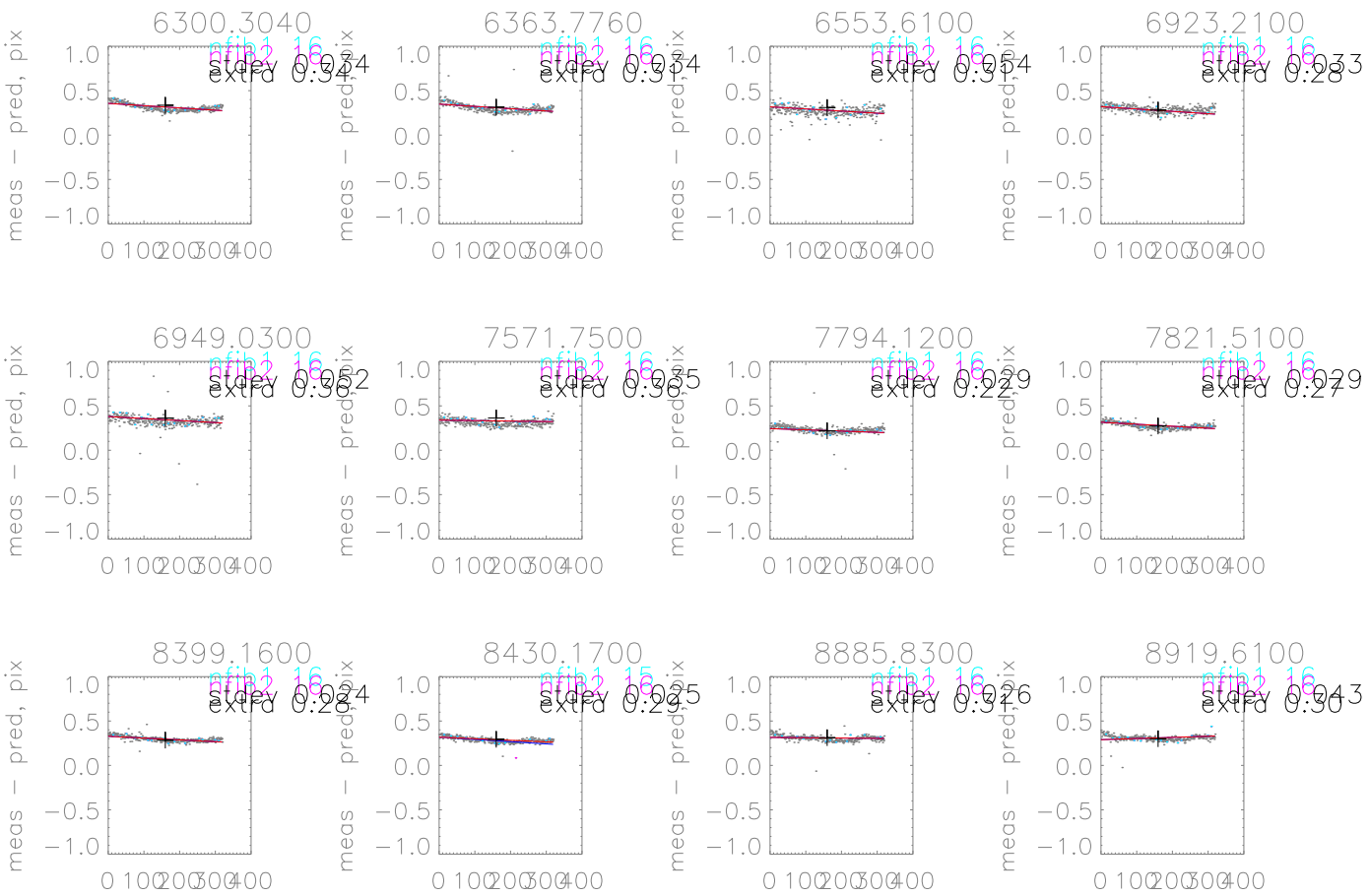

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

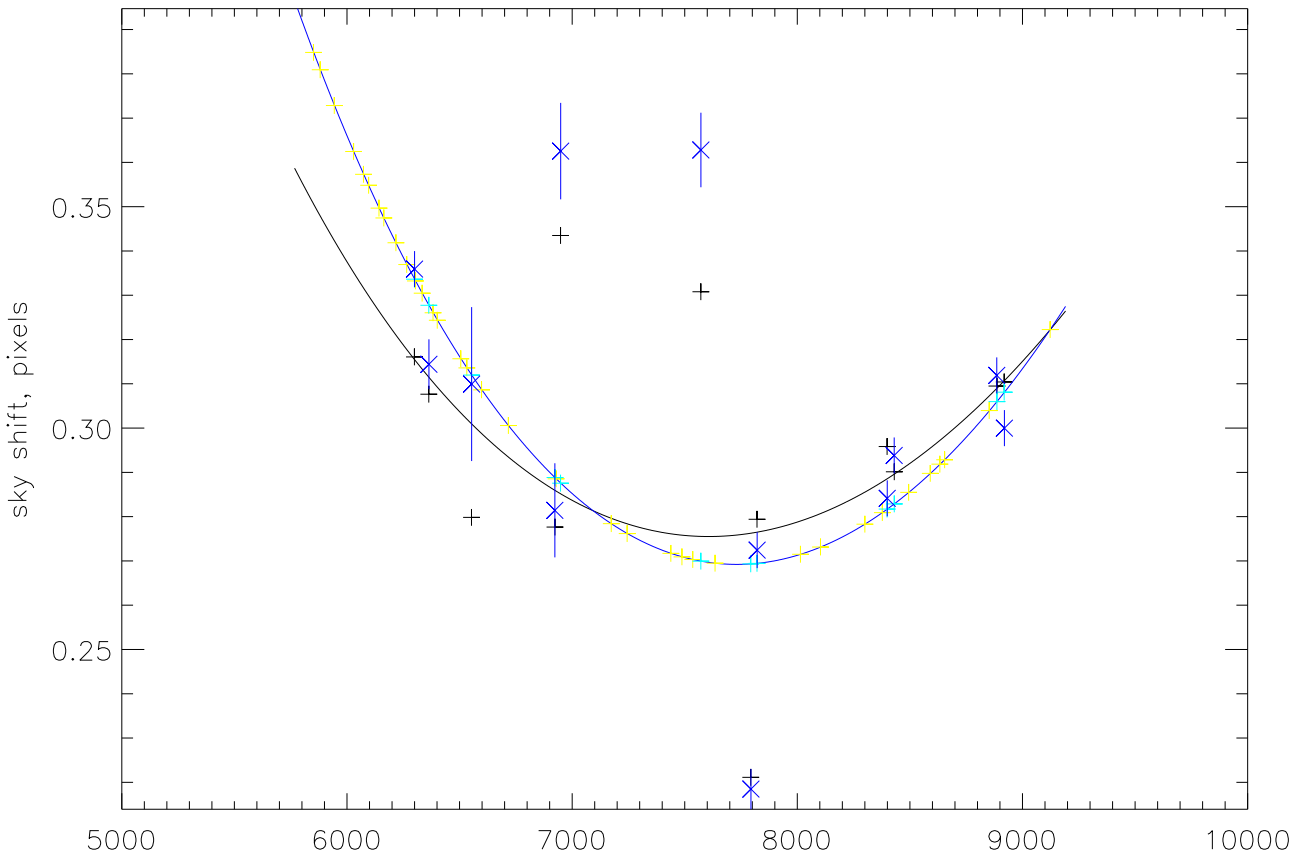

8399.1600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400


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

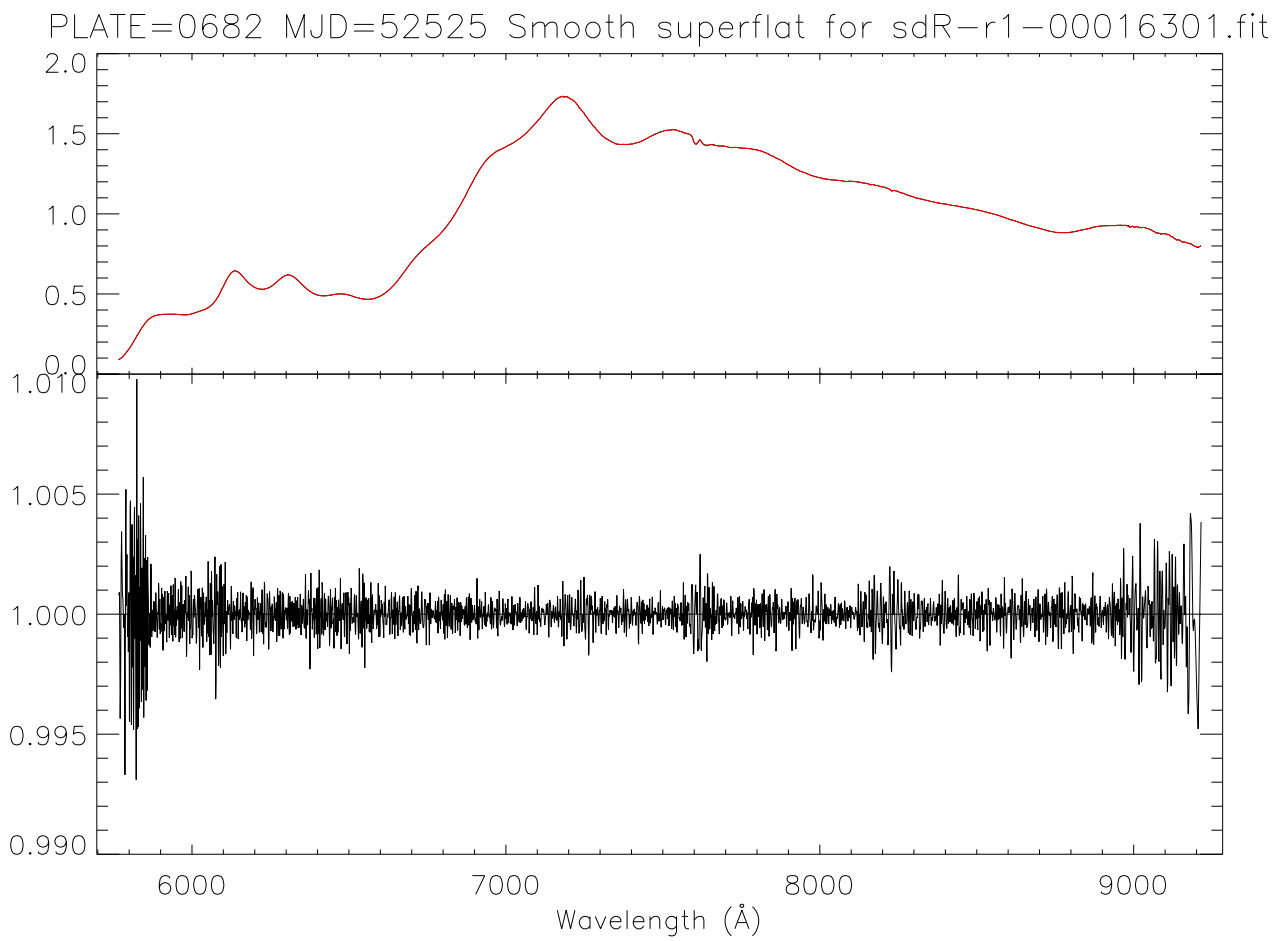

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

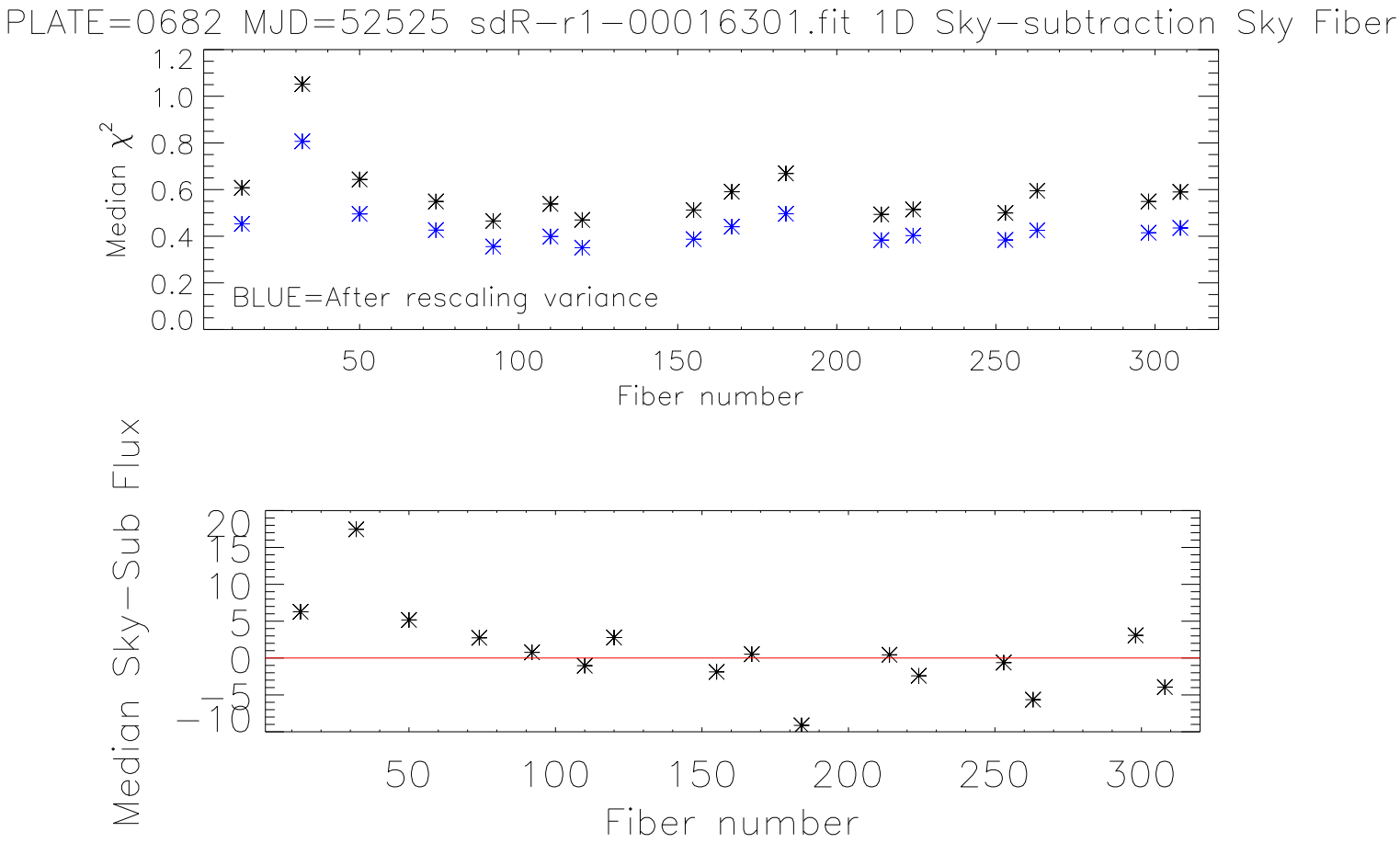

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

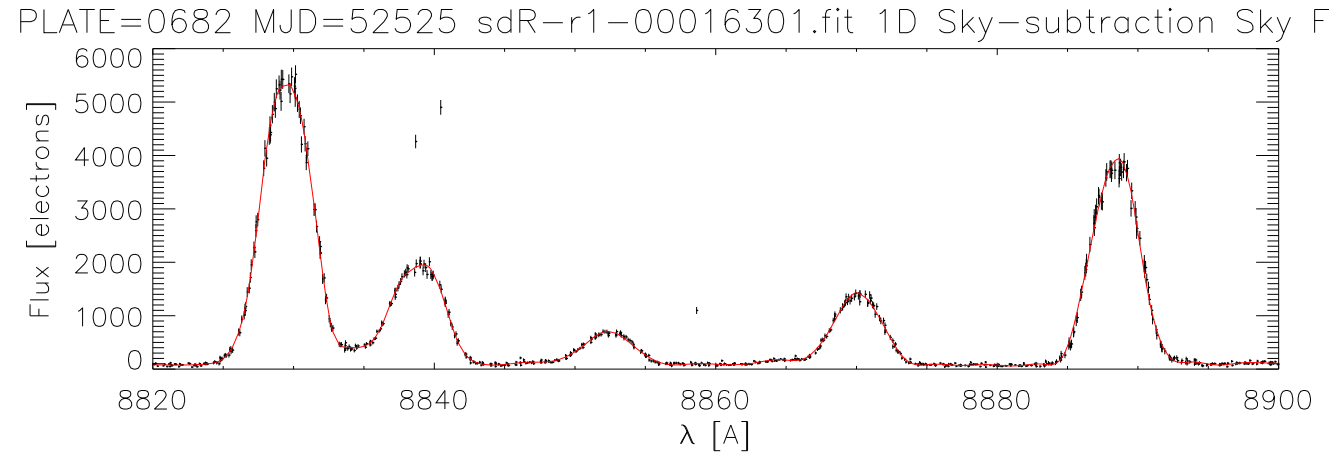

6300.3040
stdev 0.034
extra 0.34
6363.7760
stdev 0.034
extra 0.34
6553.6100
stdev 0.034
extra 0.34
6923.2100
stdev 0.033
extra 0.28
6949.0300
stdev 0.052
extra 0.36
7571.7500
stdev 0.035
extra 0.36
7794.1200
stdev 0.029
extra 0.22
7821.5100
stdev 0.029
extra 0.27
8399.1600
stdev 0.024
extra 0.28
8430.1700
stdev 0.025
extra 0.29
8885.8300
stdev 0.026
extra 0.31
8919.6100
stdev 0.043
extra 0.30
meas − pred, pix

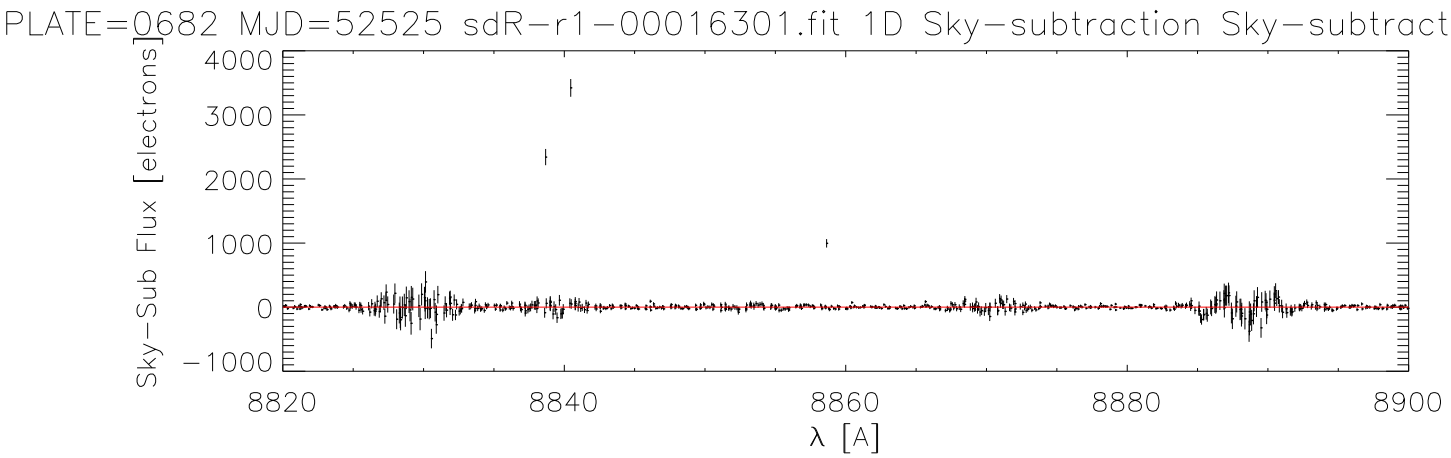

sky shift, pixels
0.35
0.30
0.25
5000
6000
7000
8000
9000
10000

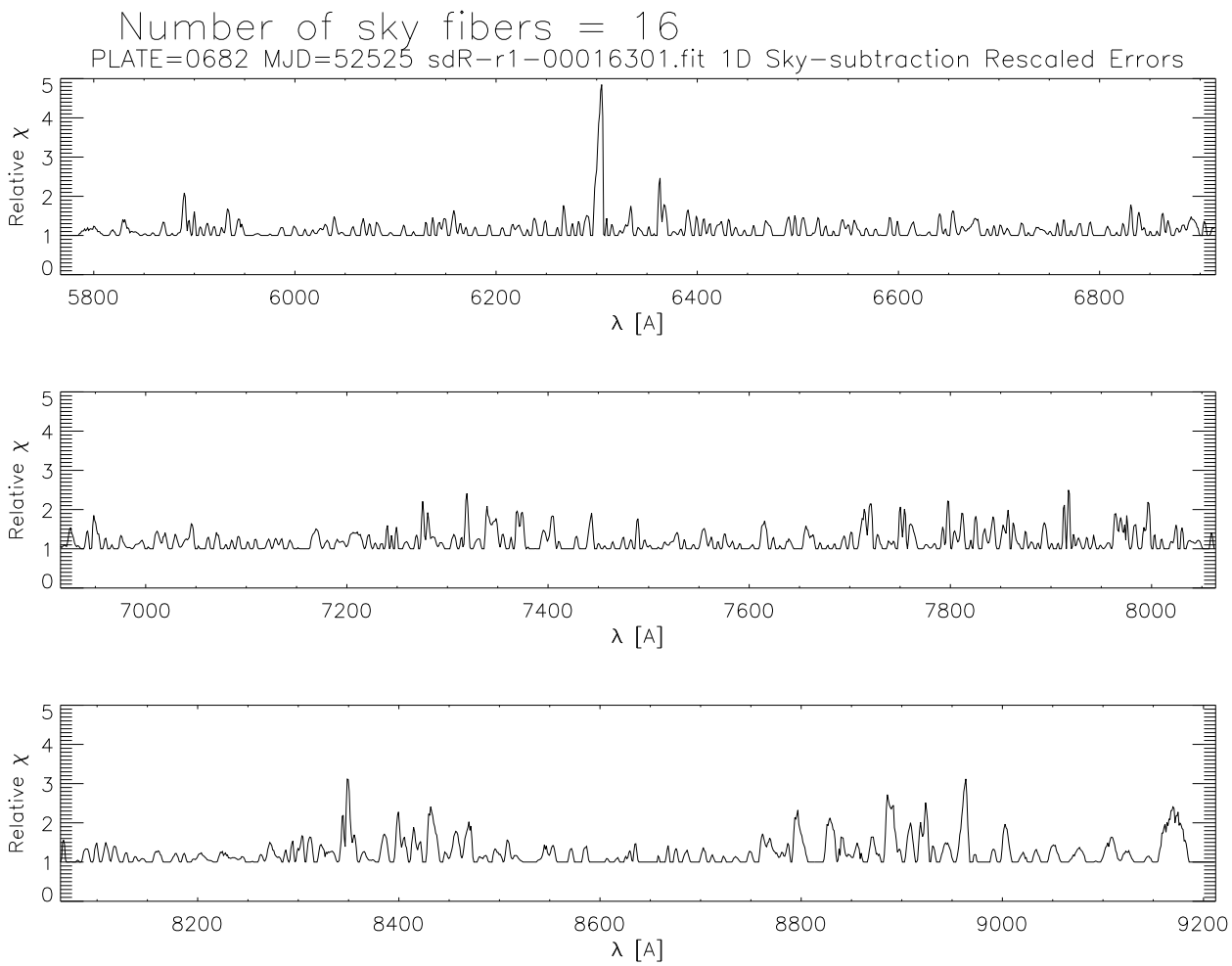
es= 0.0000

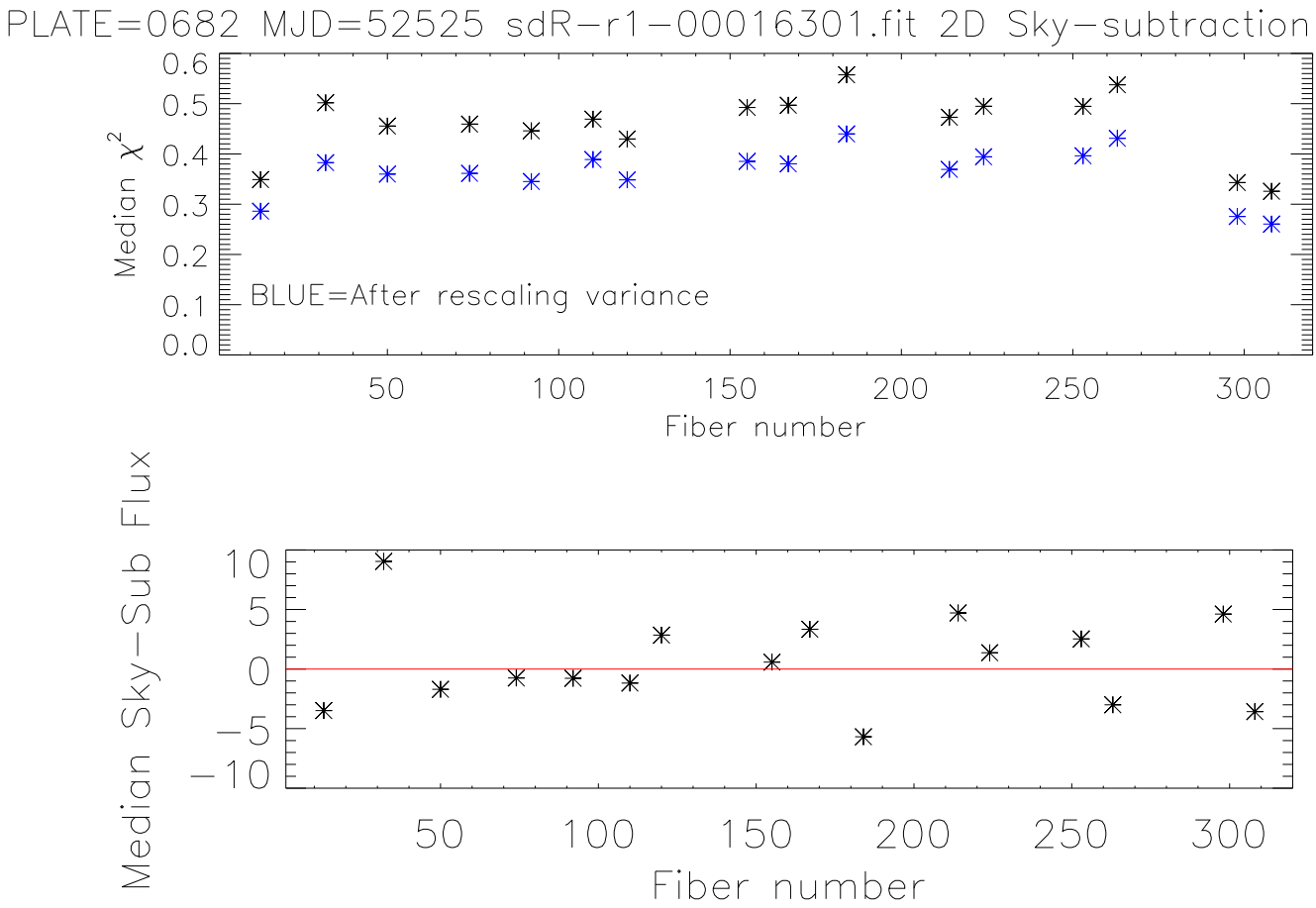

PLATE=0682 MJD=52525 Smooth superflat for sdR-r1-00016301.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

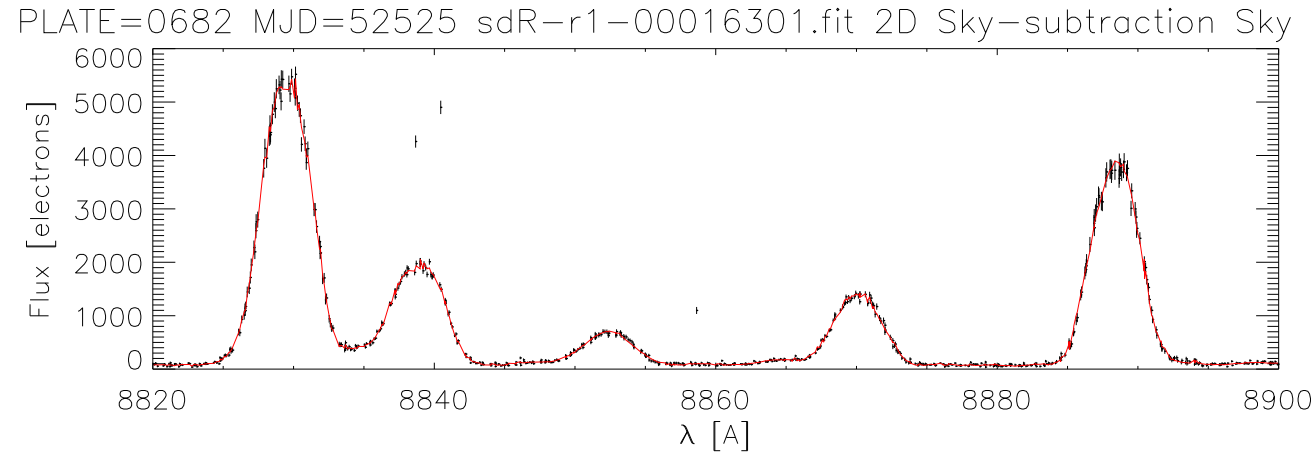

PLATE=0682 MJD=52525 sdR-r1-00016301.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

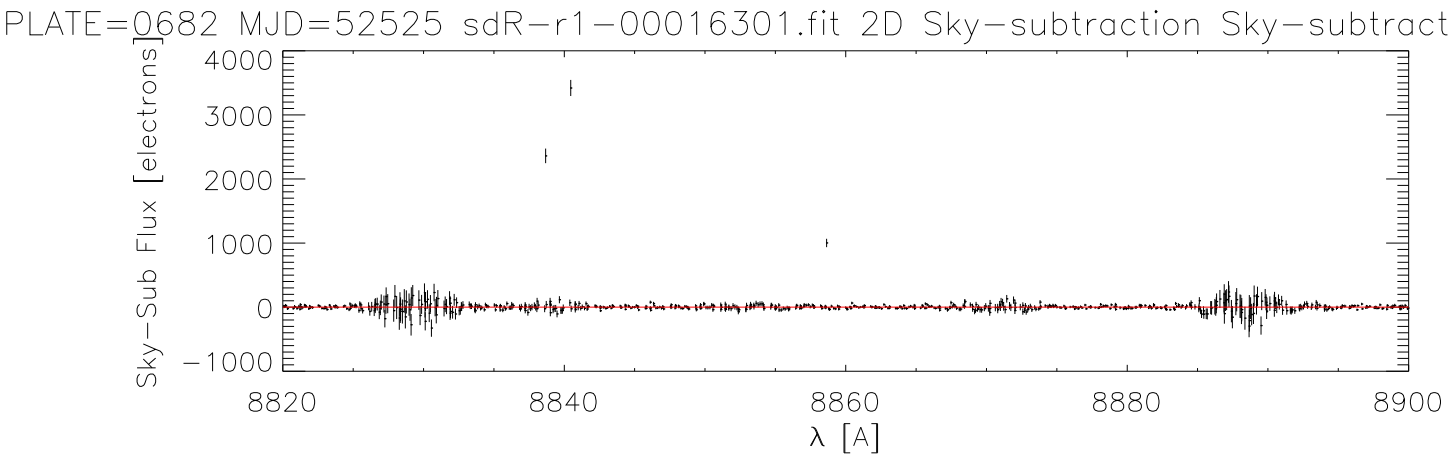

PLATE=0682 MJD=52525 sdR-r1-00016301.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

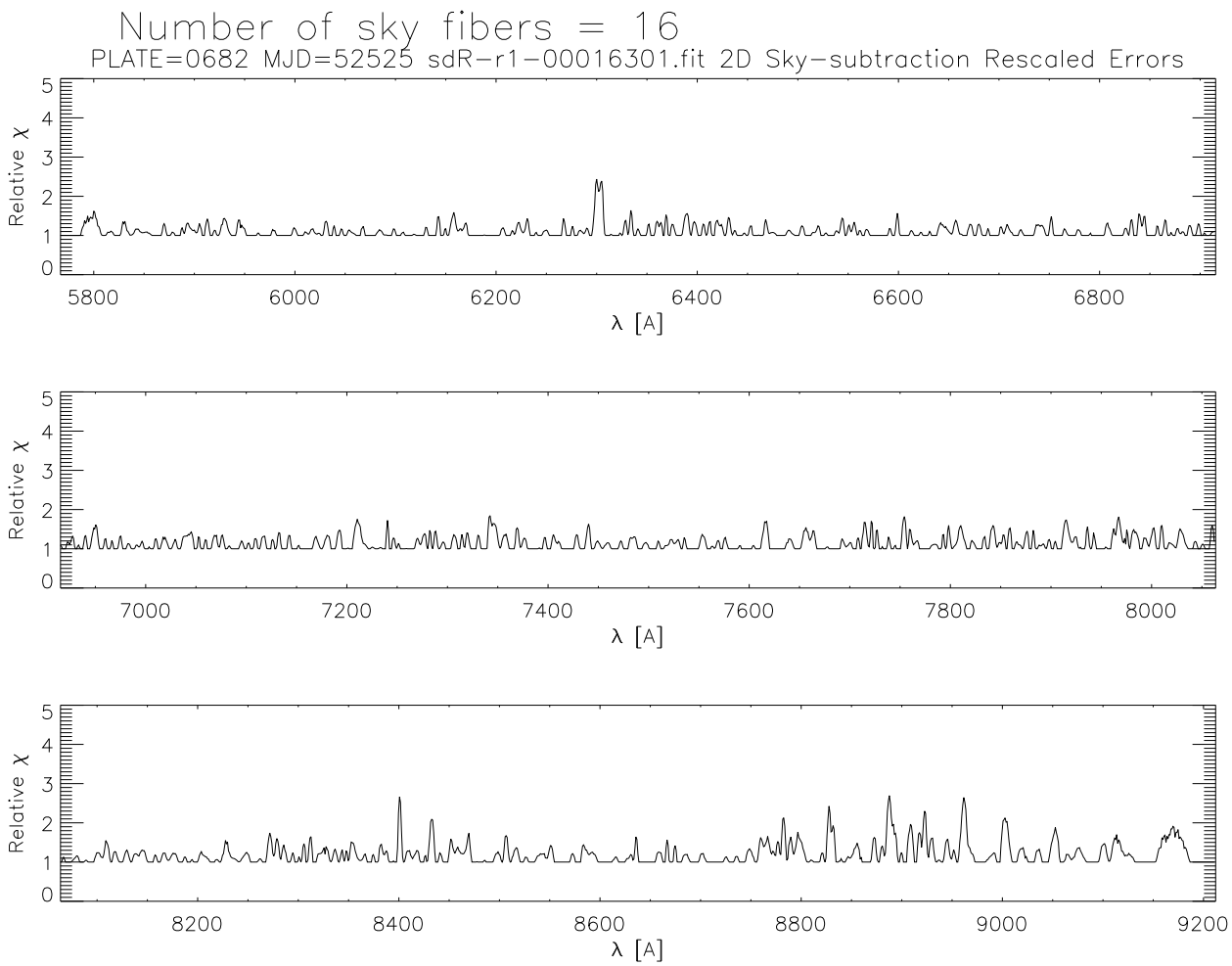

PLATE=0682 MJD=52525 sdR-r1-00016301.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

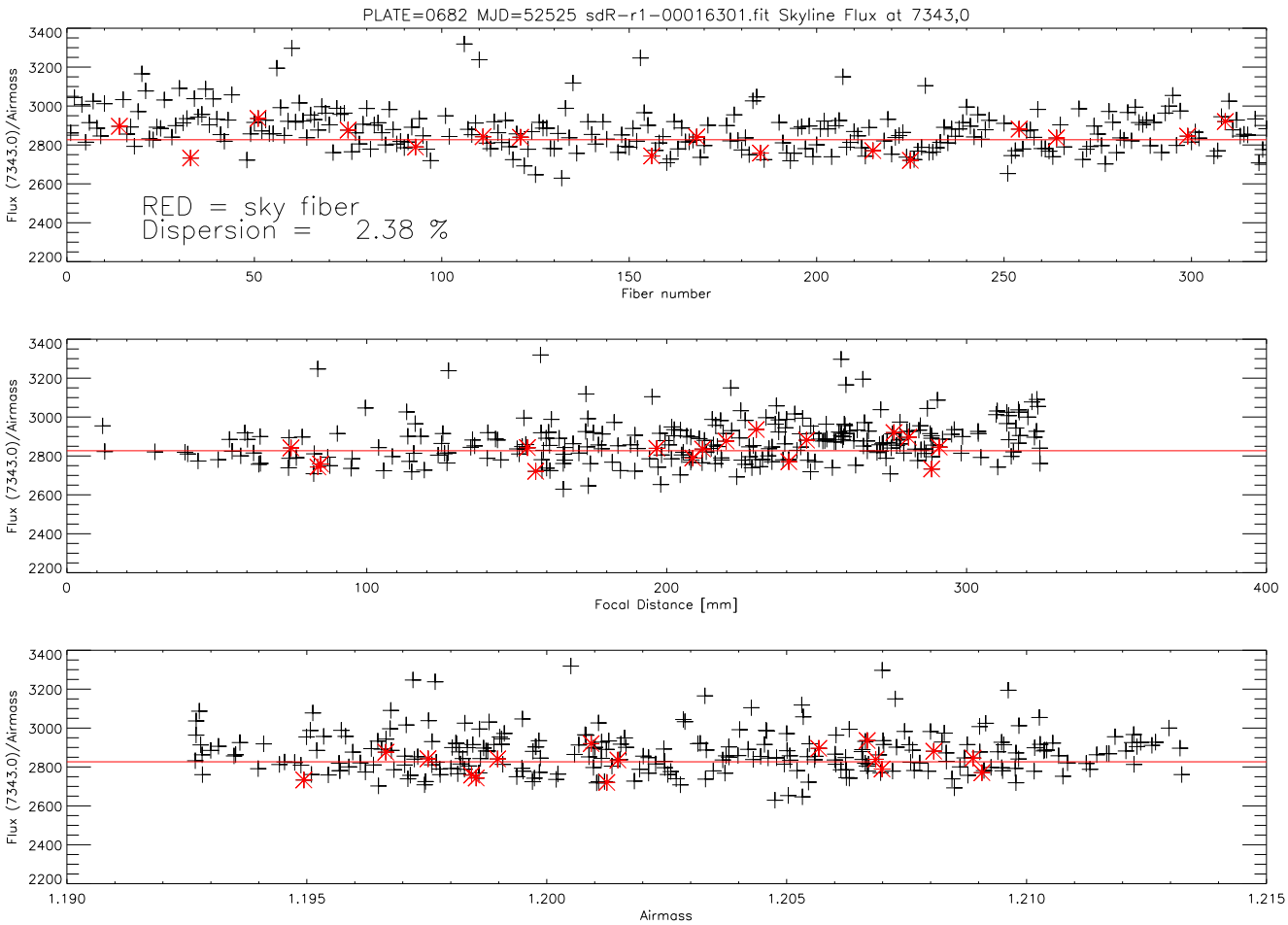

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r1-00016301.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

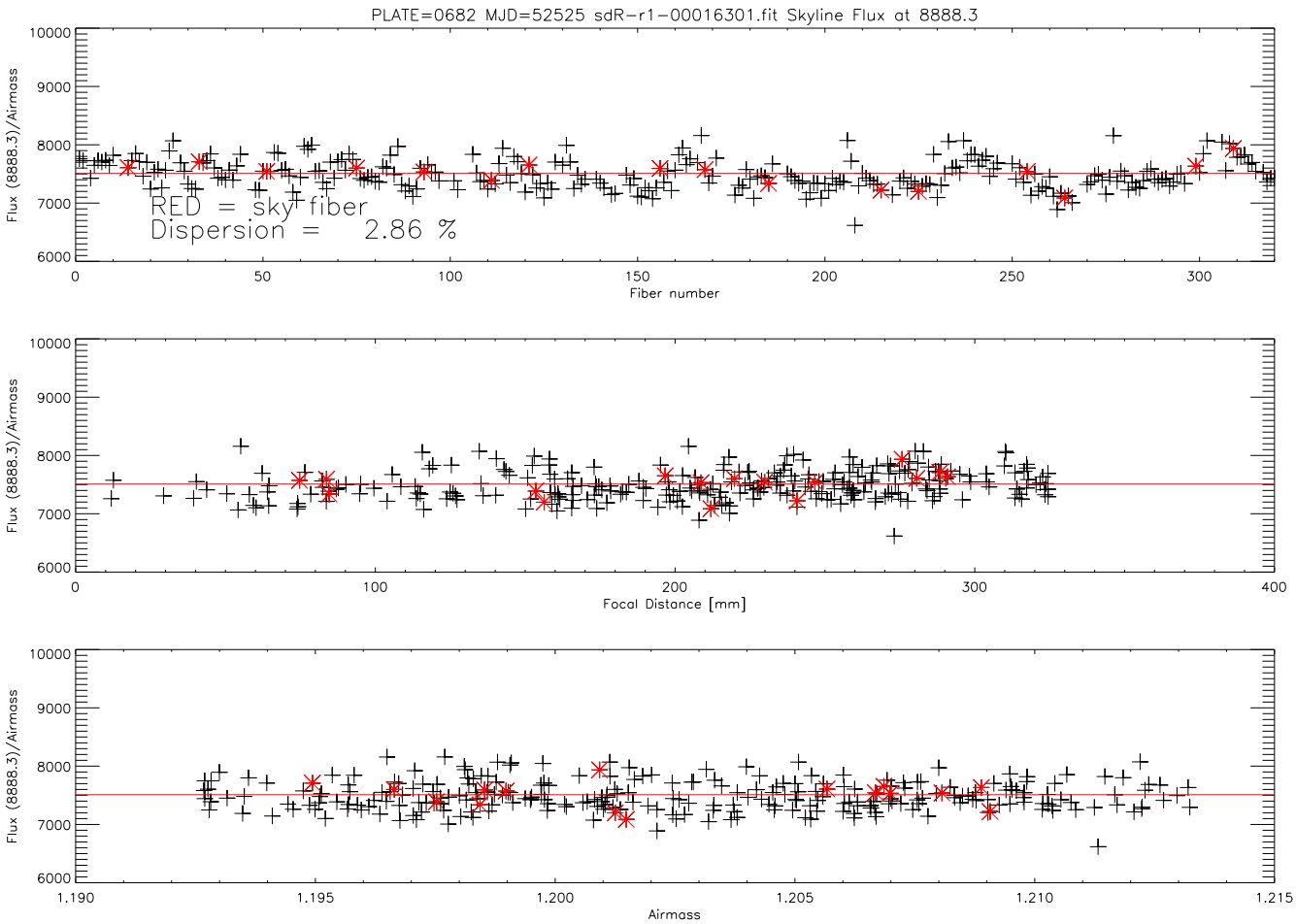

PLATE=0682 MJD=52525 sdR-r1-00016301.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

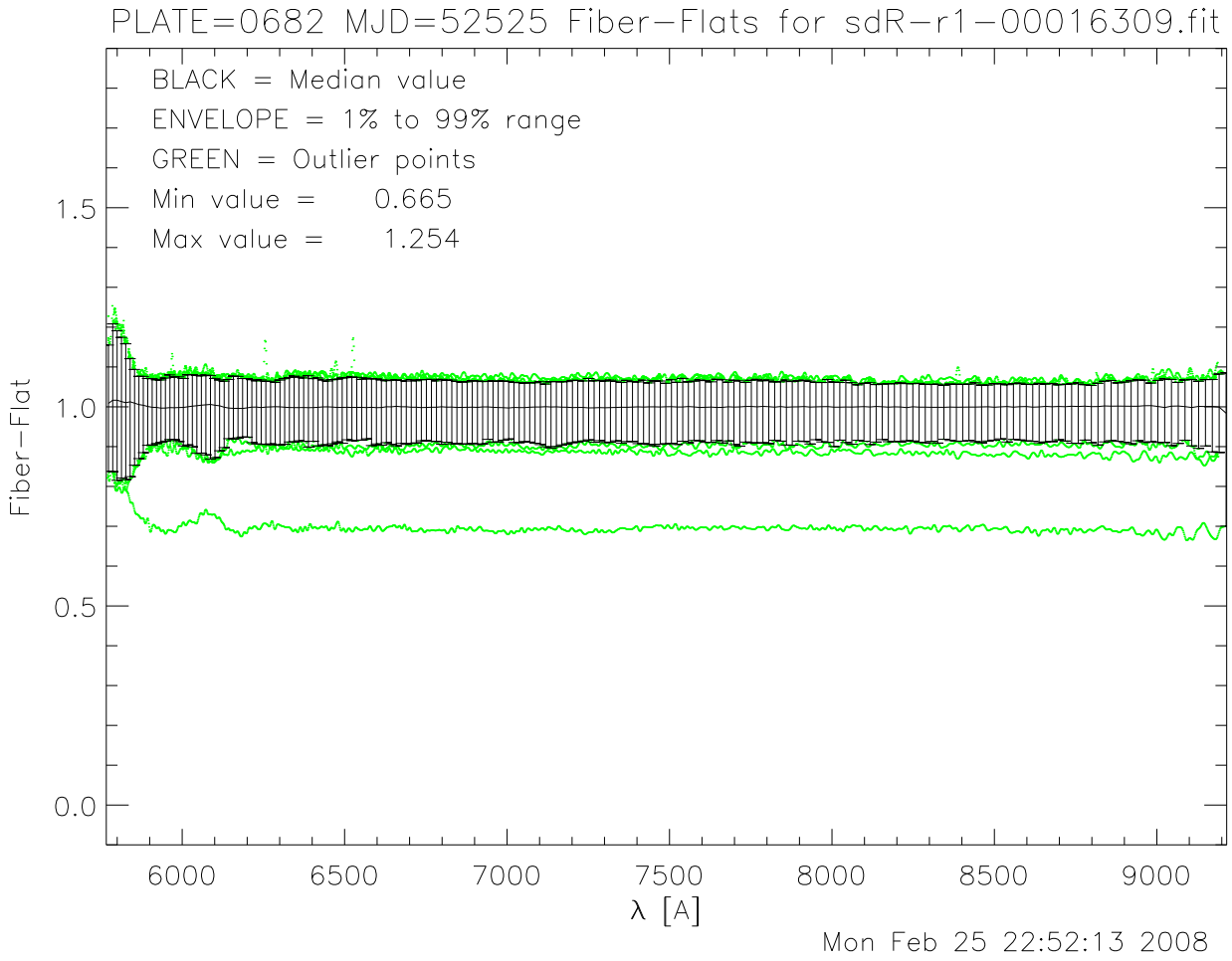

PLATE=0682 MJD=52525 sdR-r1-00016301.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

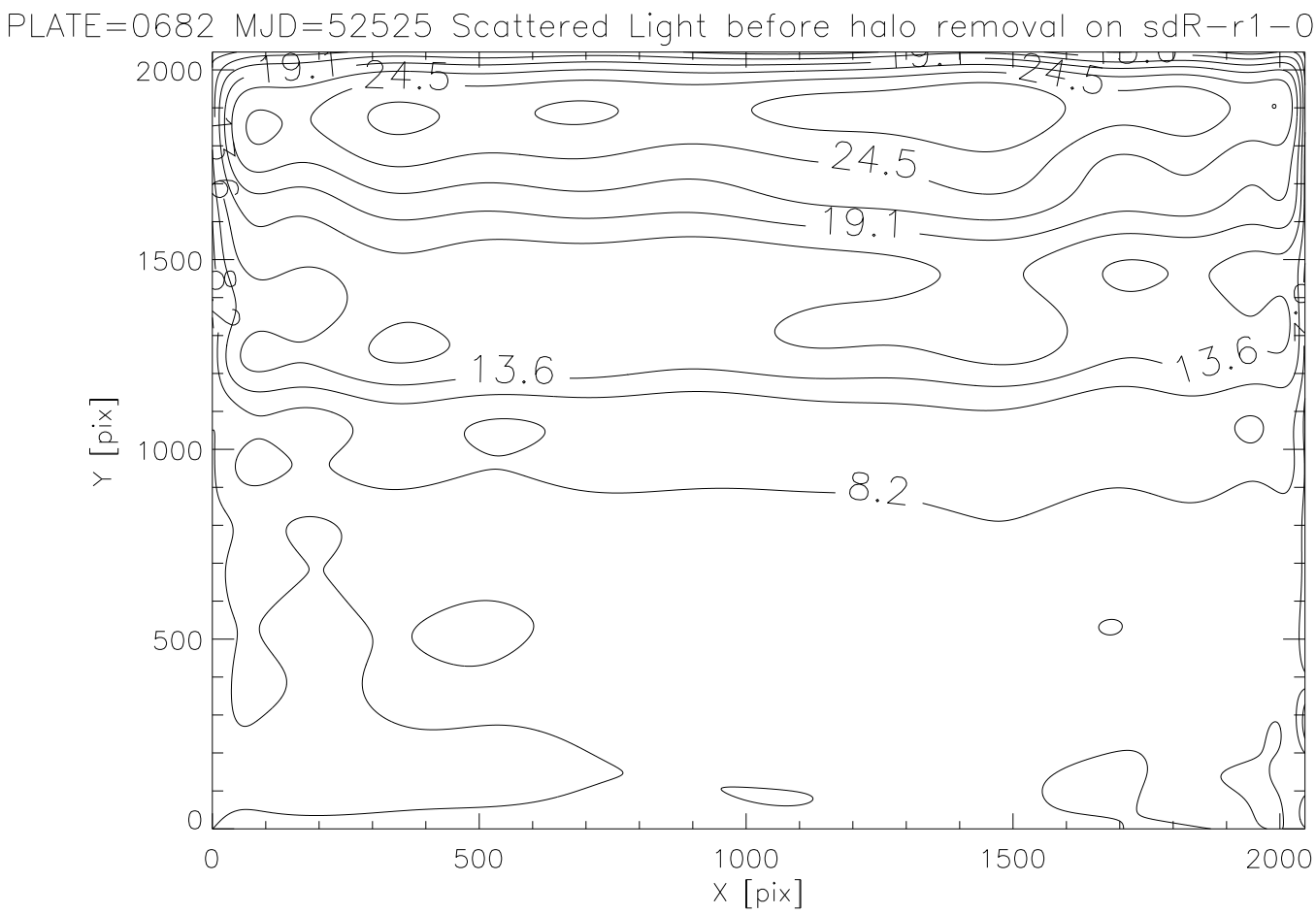

PLATE=0682 MJD=52525 sdR-r1-00016301.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

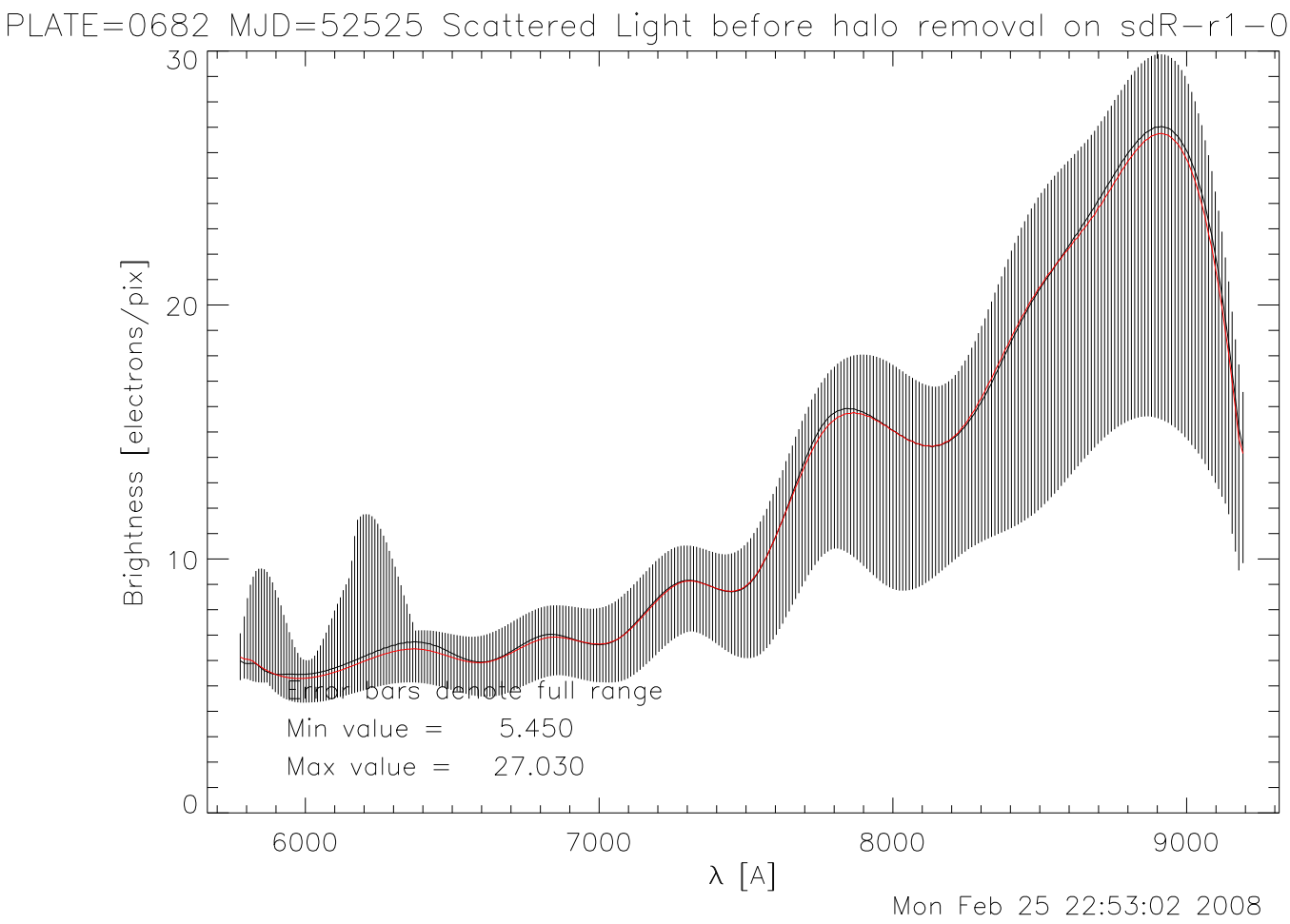

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r1-00016301.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

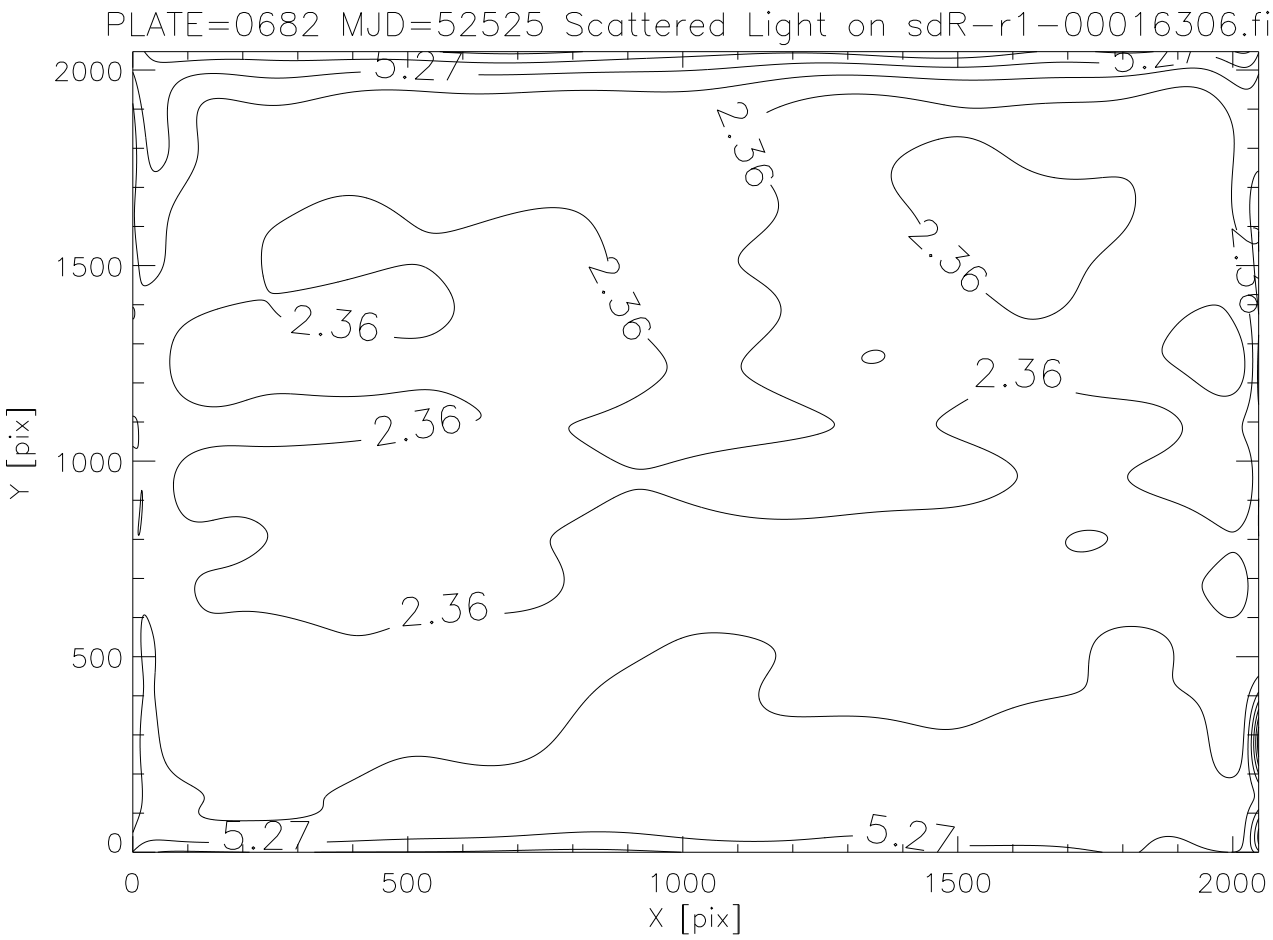

PLATE=0682 MJD=52525 sdR-r1-00016301.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.38 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

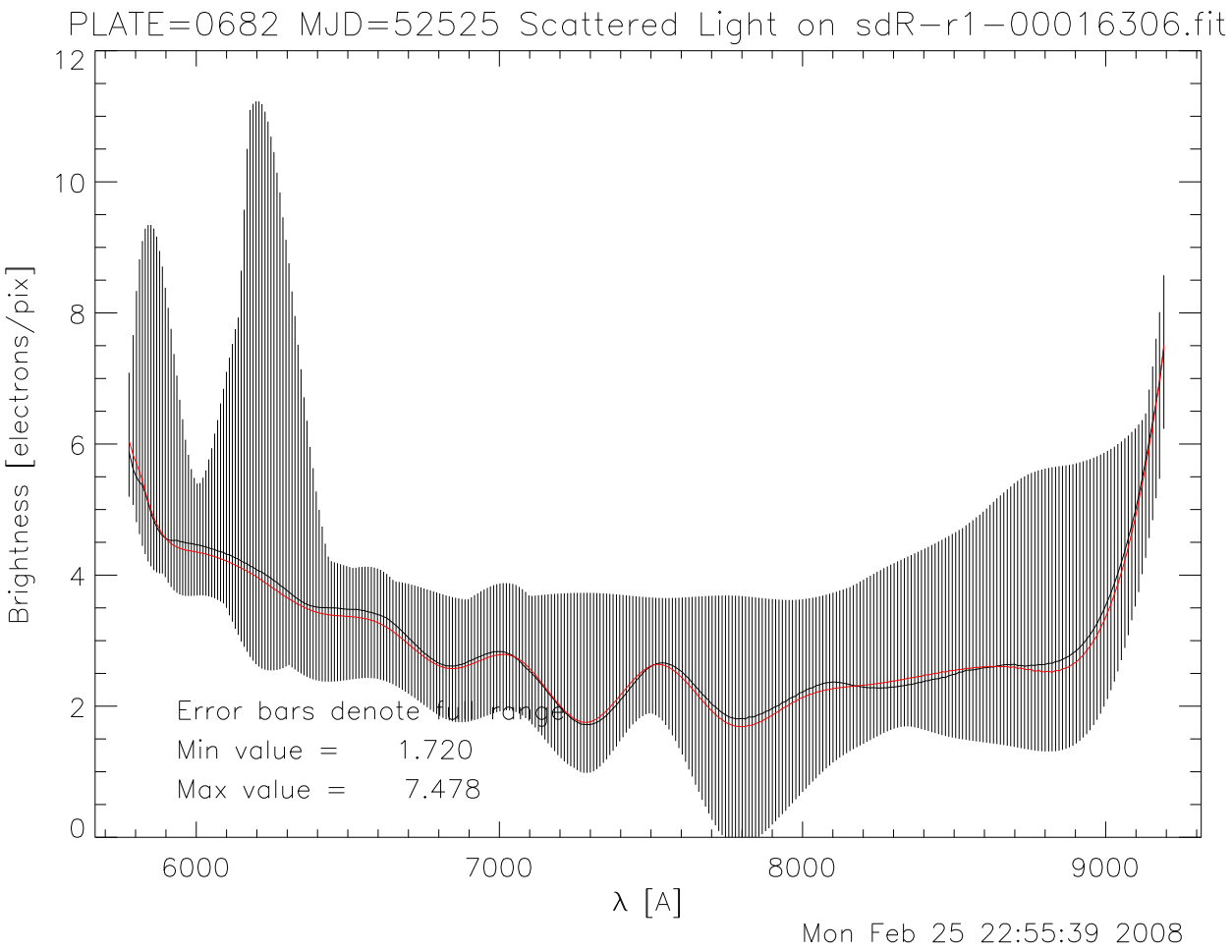

PLATE=0682 MJD=52525 sdR-r1-00016301.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.86 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

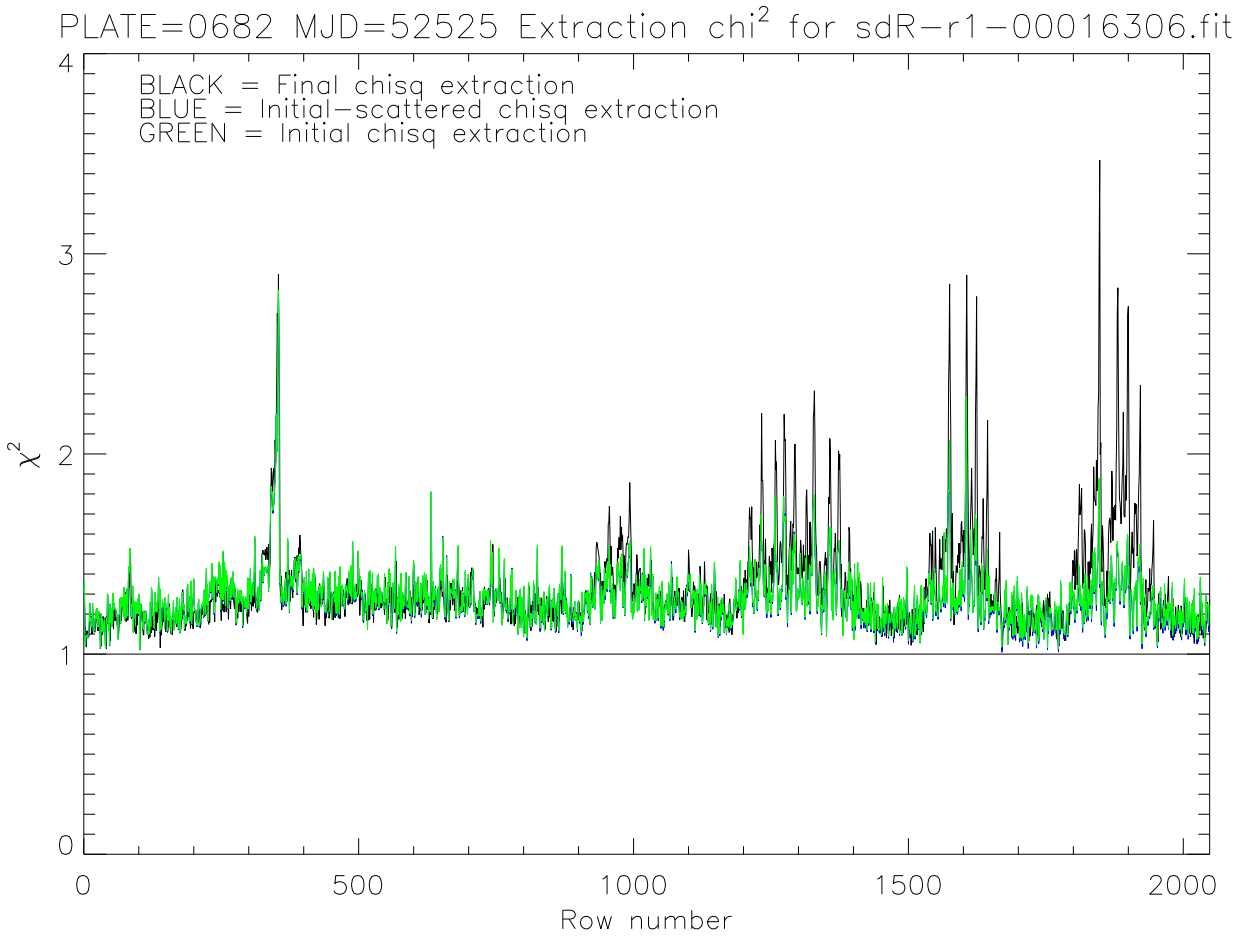

PLATE=0682 MJD=52525 Fiber−Flats for sdR−r1−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.665
Max value = 1.254
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 22:52:13 2008

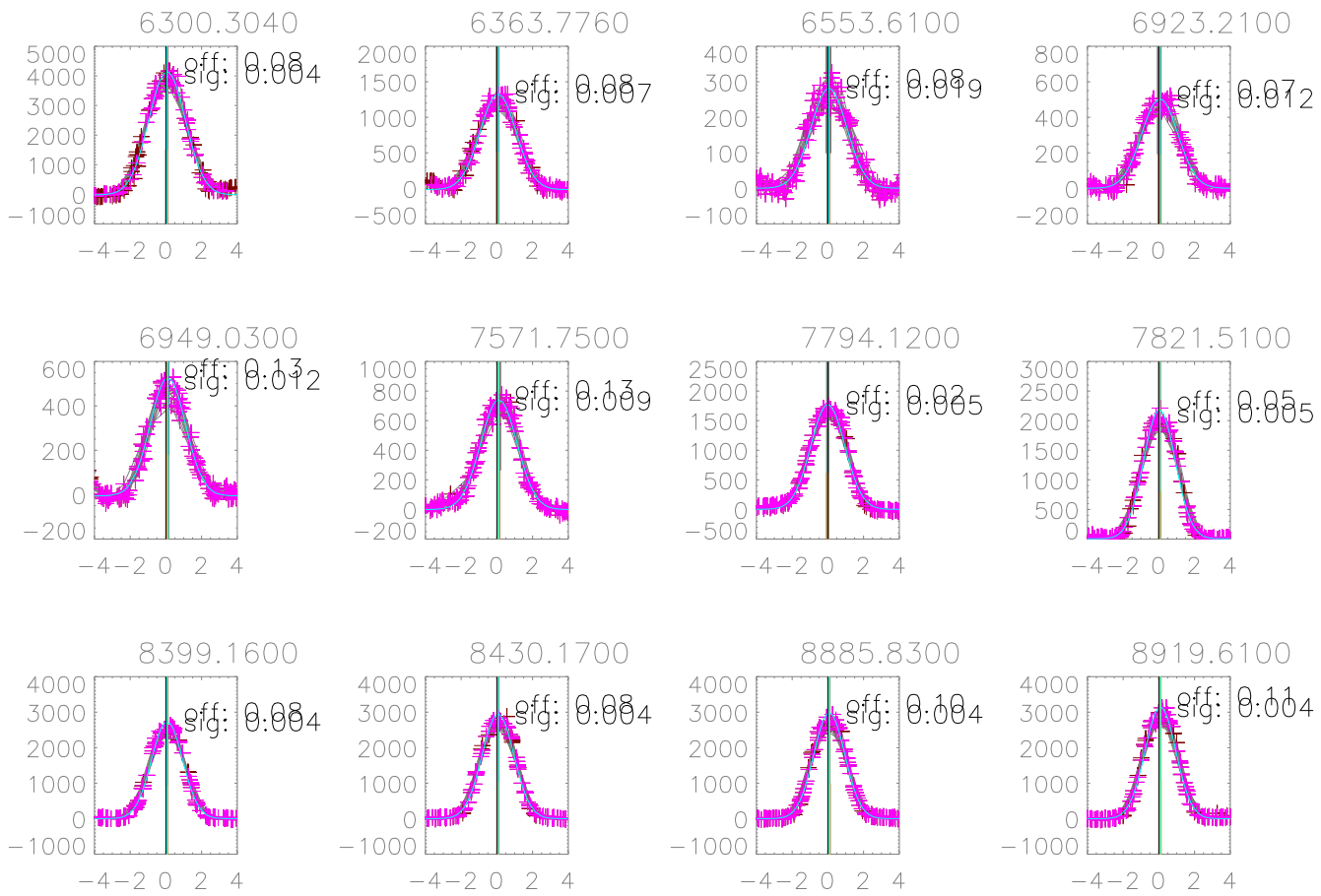

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r1-00016306.fi
24.5
19.1
13.6
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

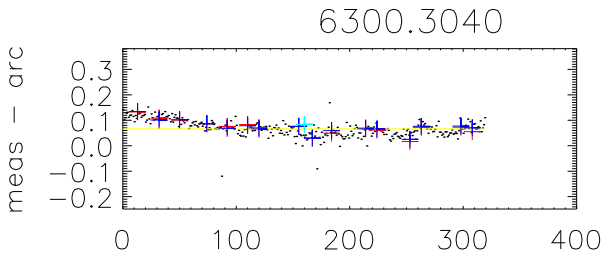

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r1-00016306.fi
Brightness [electrons/pix]
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.450
Max value = 27.030
Mon Feb 25 22:53:02 2008

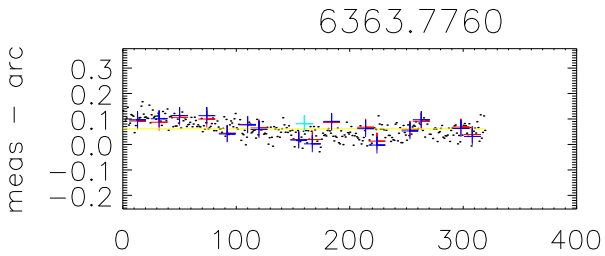

PLATE=0682 MJD=52525 Scattered Light on sdR-r1-00016306.fit
5.27
2.36
0
Y [pix]
X [pix]
0
500
1000
1500
2000

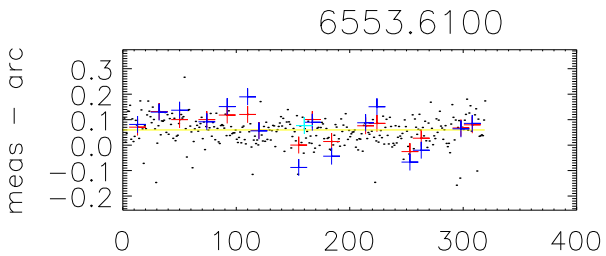

PLATE=0682 MJD=52525 Scattered Light on sdR-r1-00016306.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.720
Max value = 7.478
Mon Feb 25 22:55:39 2008

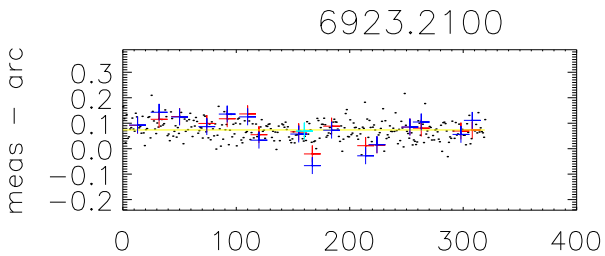

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR−r1−00016306.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
1
2
3
4
0
500
1000
1500
2000
Row number

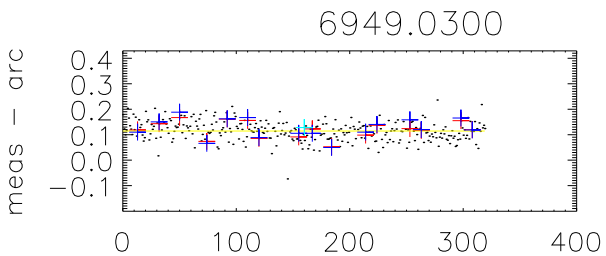

6300.3040
off: 0.08
sig: 0.004
6363.7760
off: 0.08
sig: 0.007
6553.6100
off: 0.08
sig: 0.019
6923.2100
off: 0.07
sig: 0.012
6949.0300
off: 0.13
sig: 0.012
7571.7500
off: 0.13
sig: 0.009
7794.1200
off: 0.02
sig: 0.005
7821.5100
off: 0.05
sig: 0.005
8399.1600
off: 0.08
sig: 0.004
8430.1700
off: 0.08
sig: 0.004
8885.8300
off: 0.10
sig: 0.004
8919.6100
off: 0.11
sig: 0.004

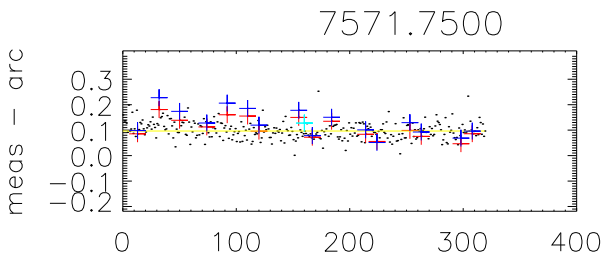

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

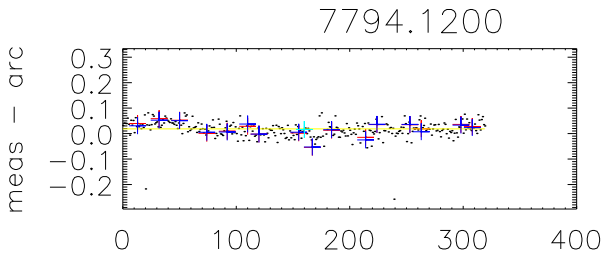

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

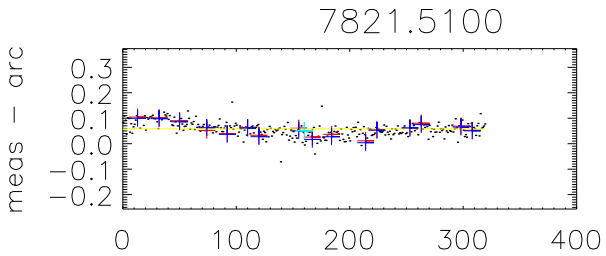

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

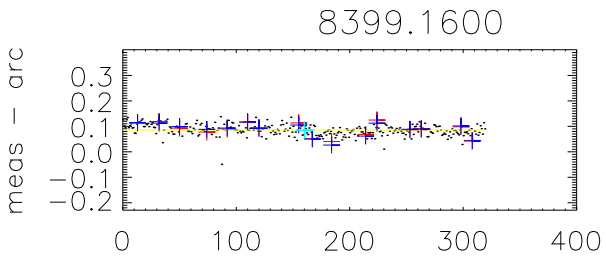

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

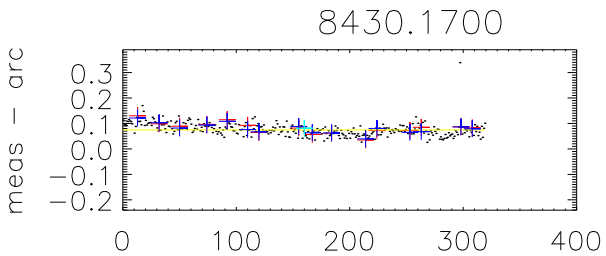

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

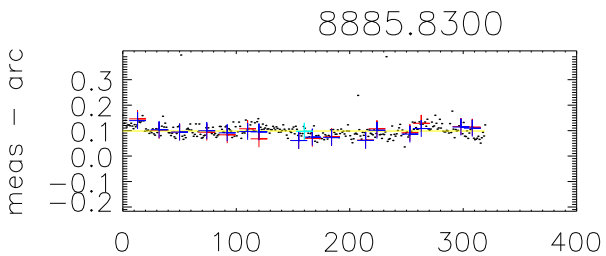

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

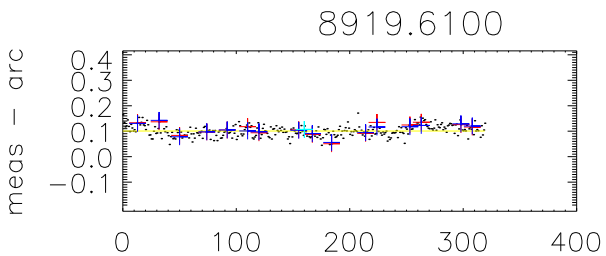

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

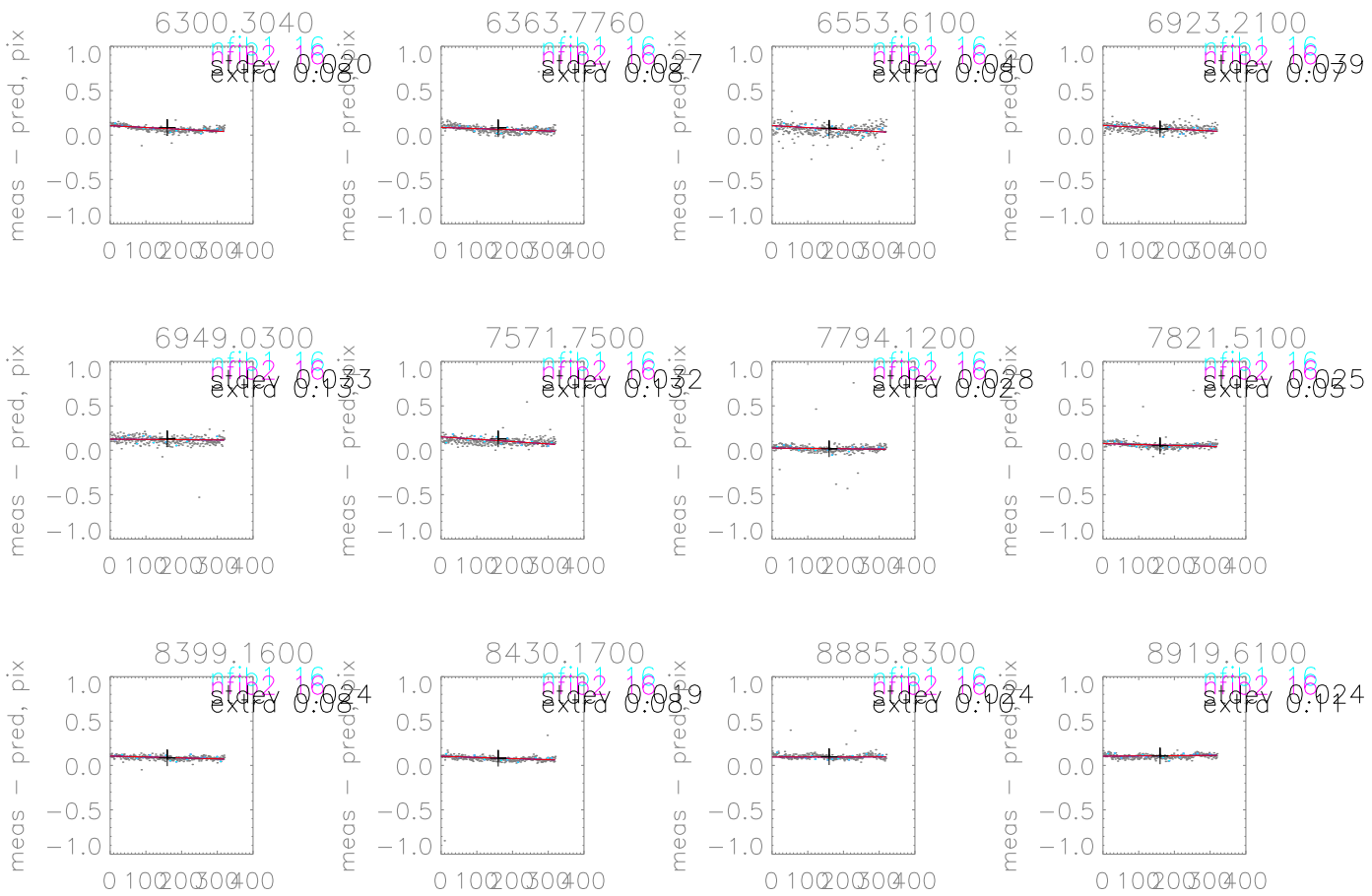

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

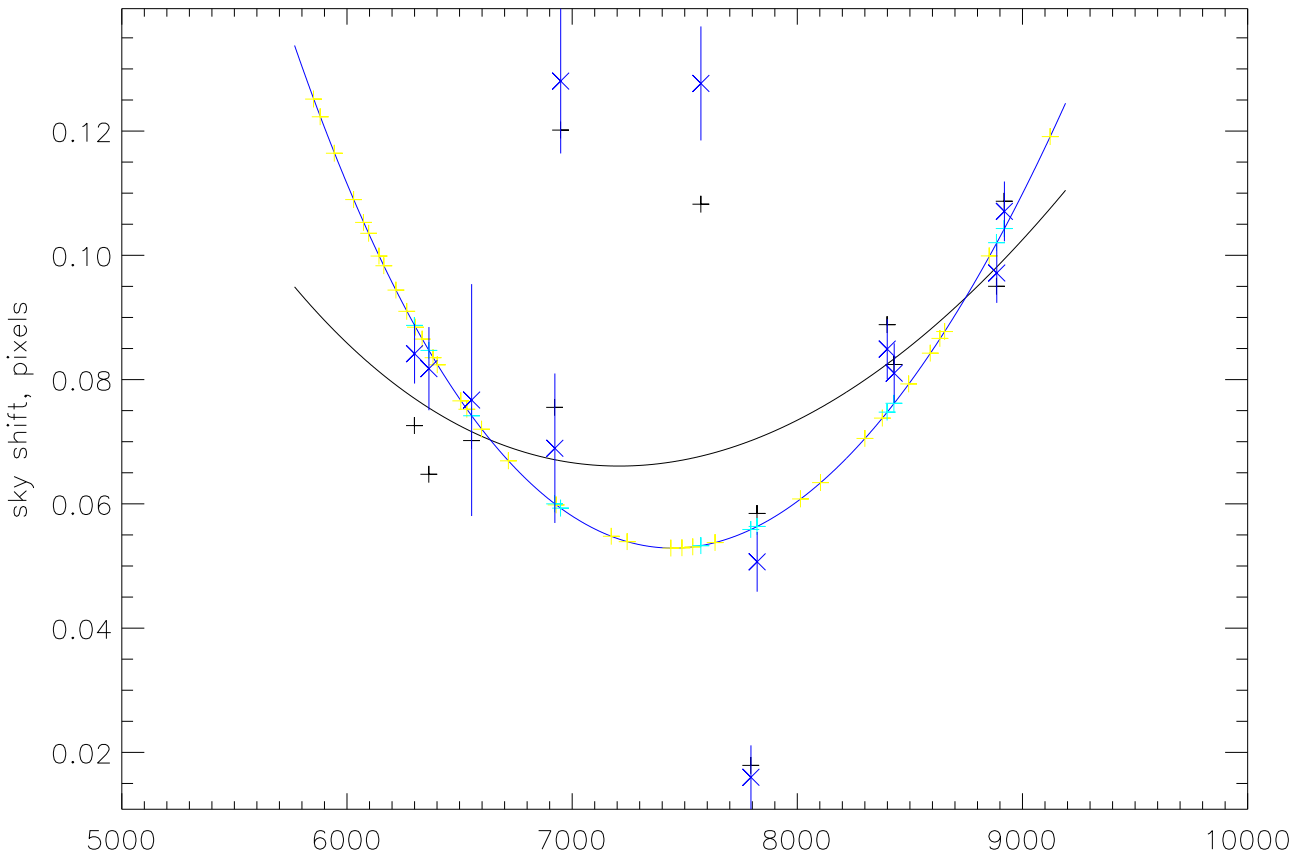

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

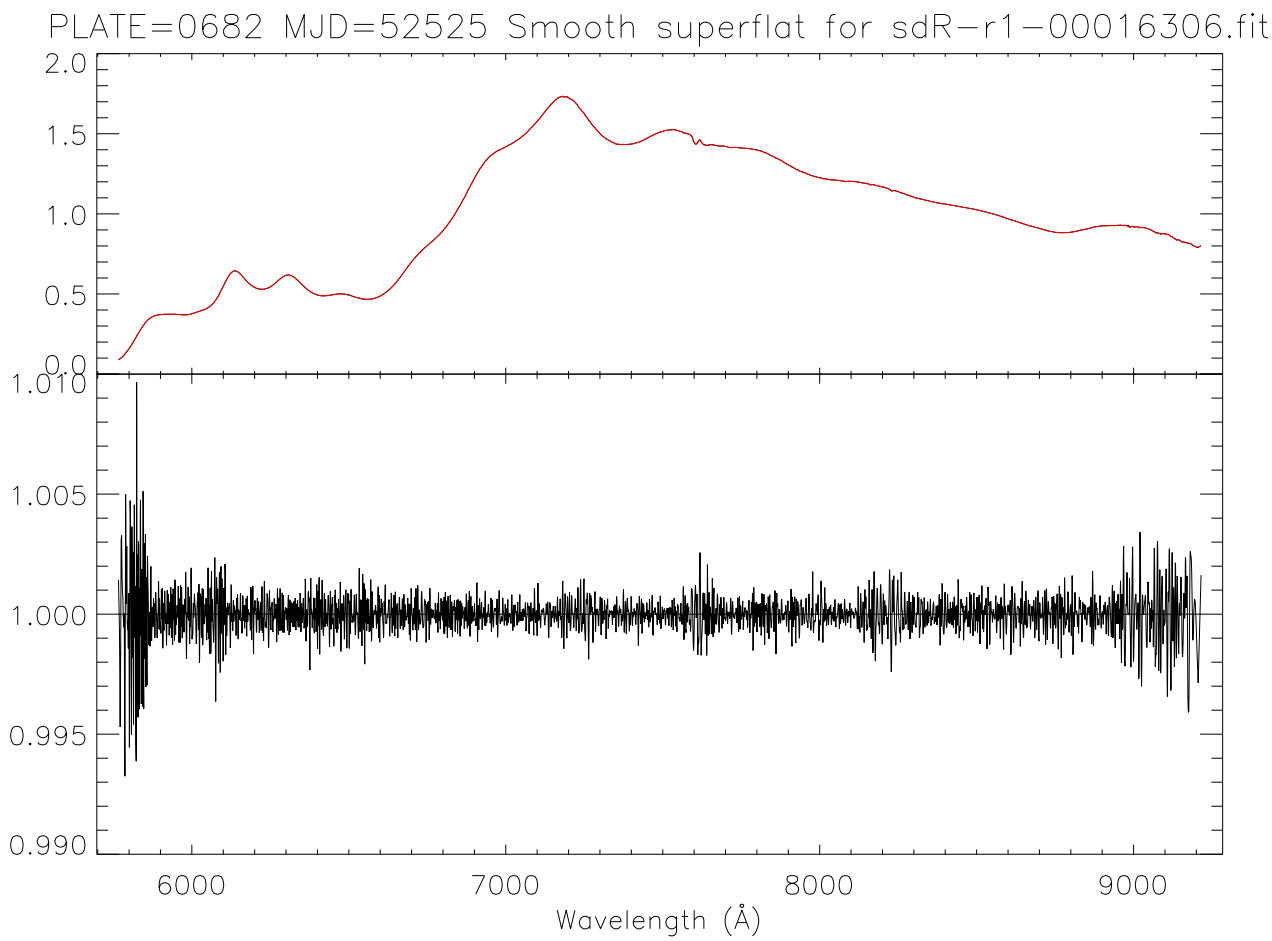

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

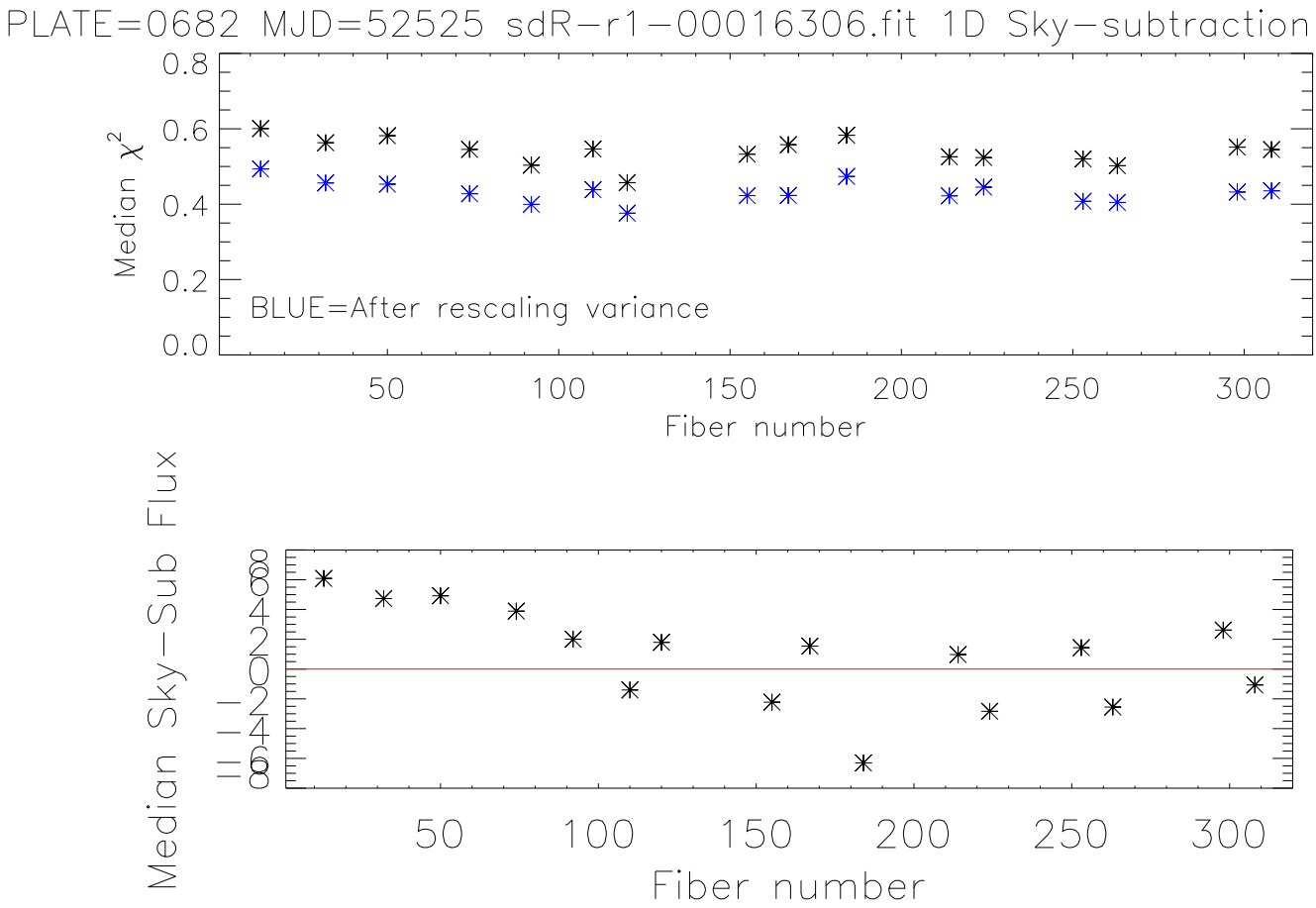

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


6300.3040
stdev 0.020
extra 0.08
6363.7760
stdev 0.027
extra 0.08
6553.6100
stdev 0.040
extra 0.08
6923.2100
stdev 0.039
extra 0.07
6949.0300
stdev 0.033
extra 0.13
7571.7500
stdev 0.032
extra 0.13
7794.1200
stdev 0.028
extra 0.02
7821.5100
stdev 0.025
extra 0.05
8399.1600
stdev 0.024
extra 0.08
8430.1700
stdev 0.049
extra 0.08
8885.8300
stdev 0.024
extra 0.10
8919.6100
stdev 0.024
extra 0.11
meas − pred, pix
mfib1 16
mfib2 16

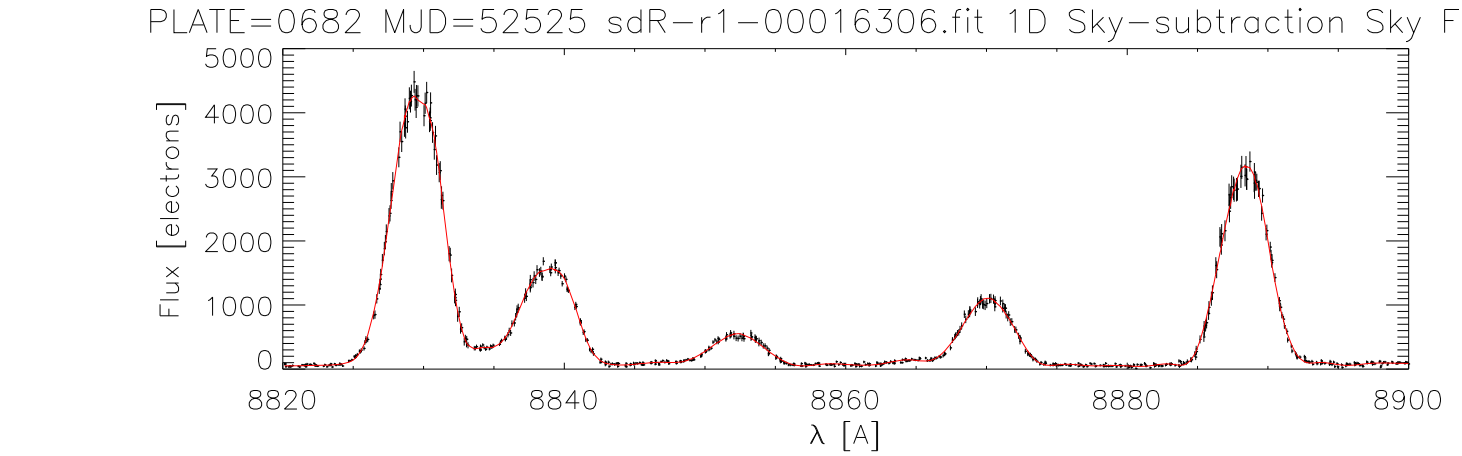

sky shift, pixels
0.12
0.10
0.08
0.06
0.04
0.02
5000
6000
7000
8000
9000
10000

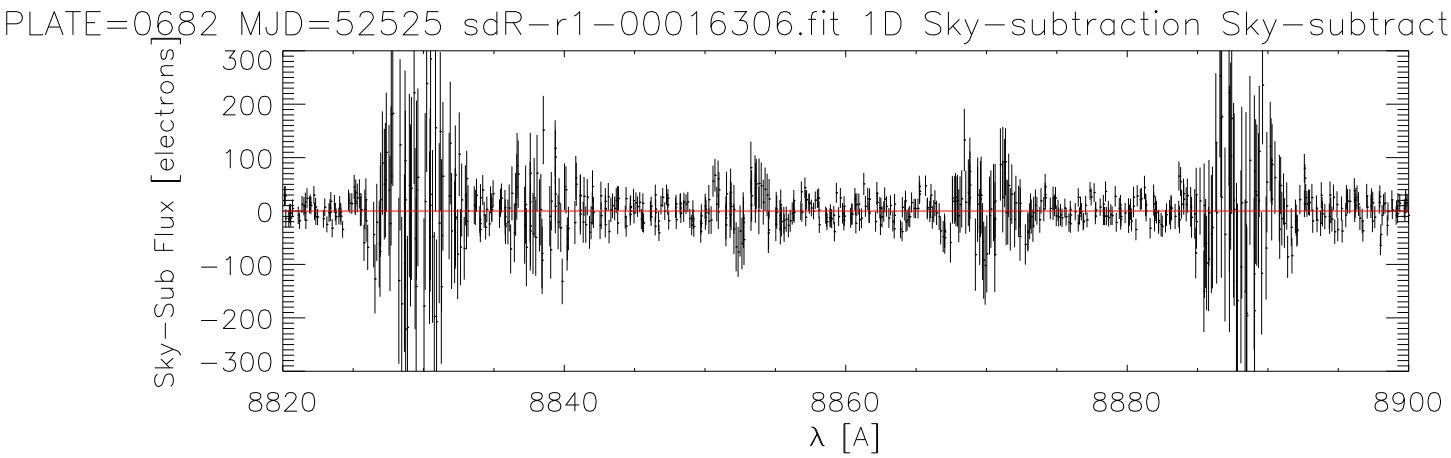
es= 0.0000

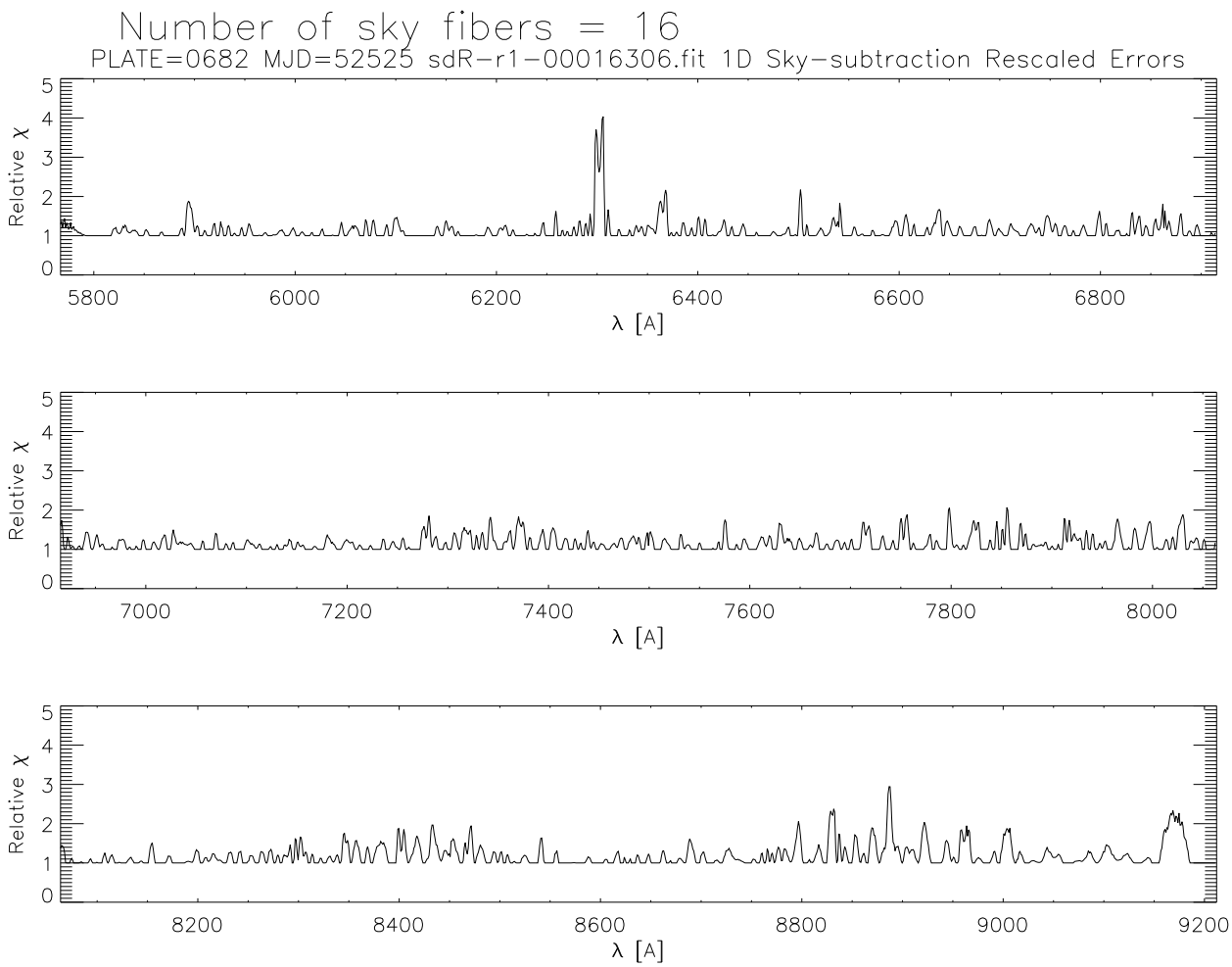

PLATE=0682 MJD=52525 Smooth superflat for sdR-r1-00016306.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

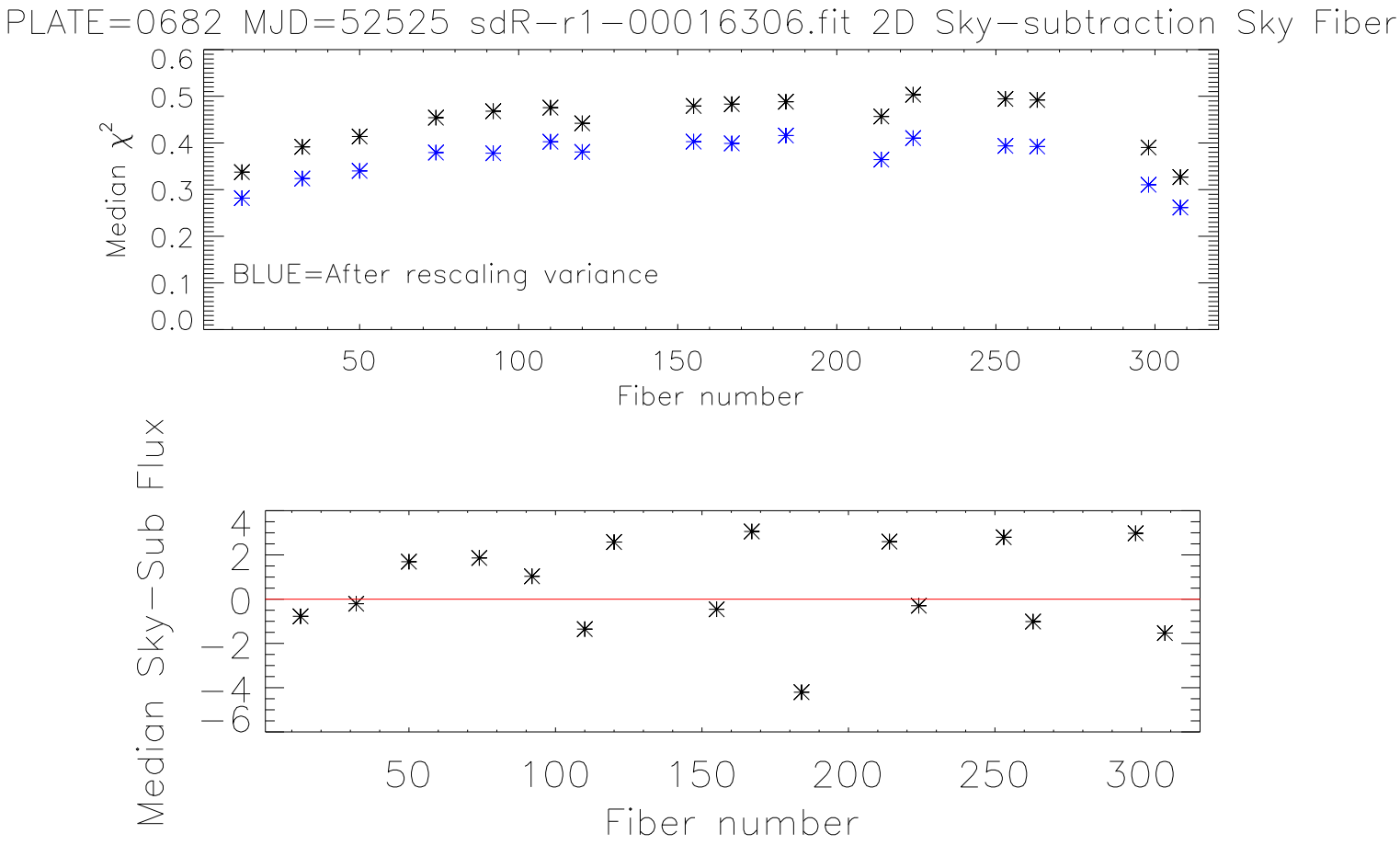

PLATE=0682 MJD=52525 sdR-r1-00016306.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

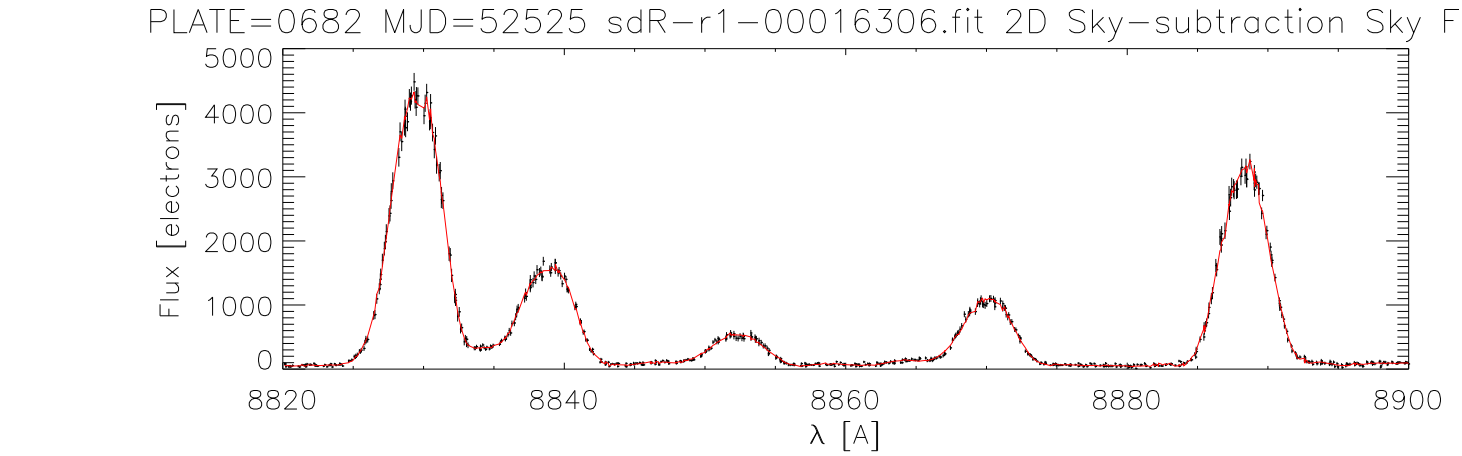

Median Sky-Sub Flux
Fiber number

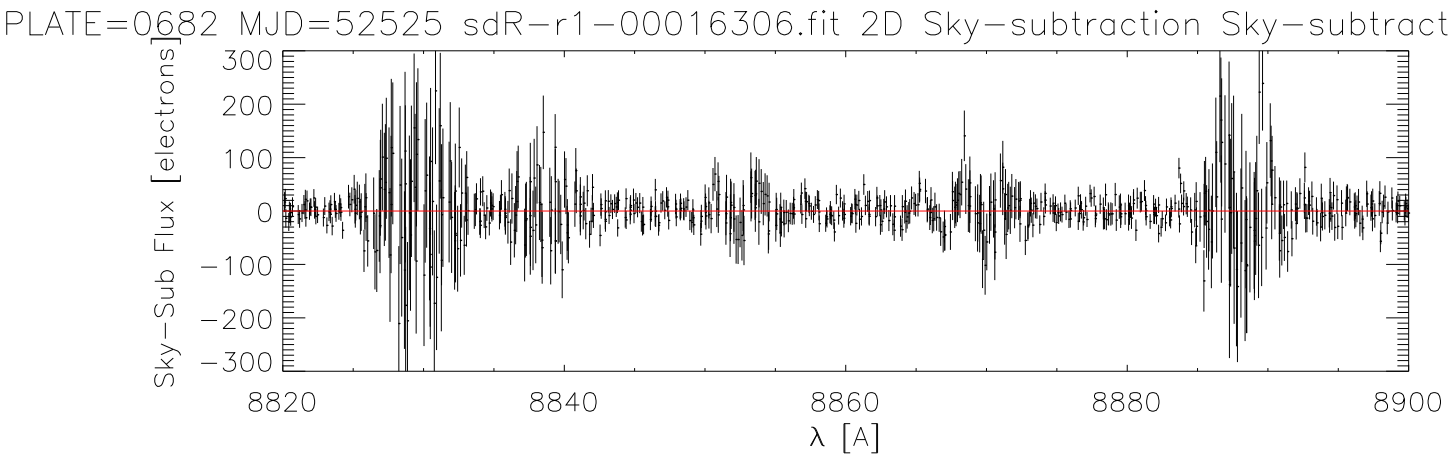

PLATE=0682 MJD=52525 sdR-r1-00016306.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

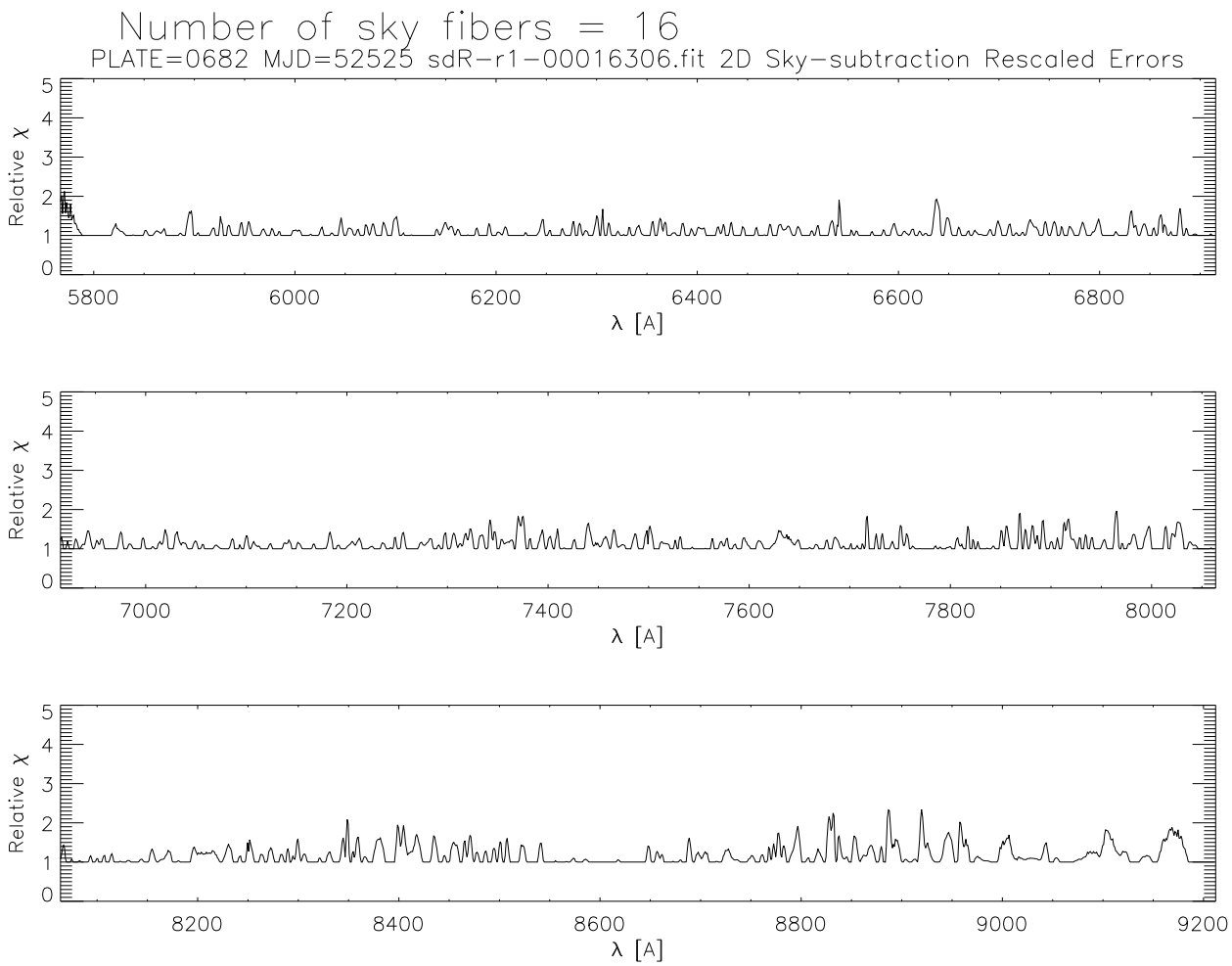

PLATE=0682 MJD=52525 sdR-r1-00016306.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

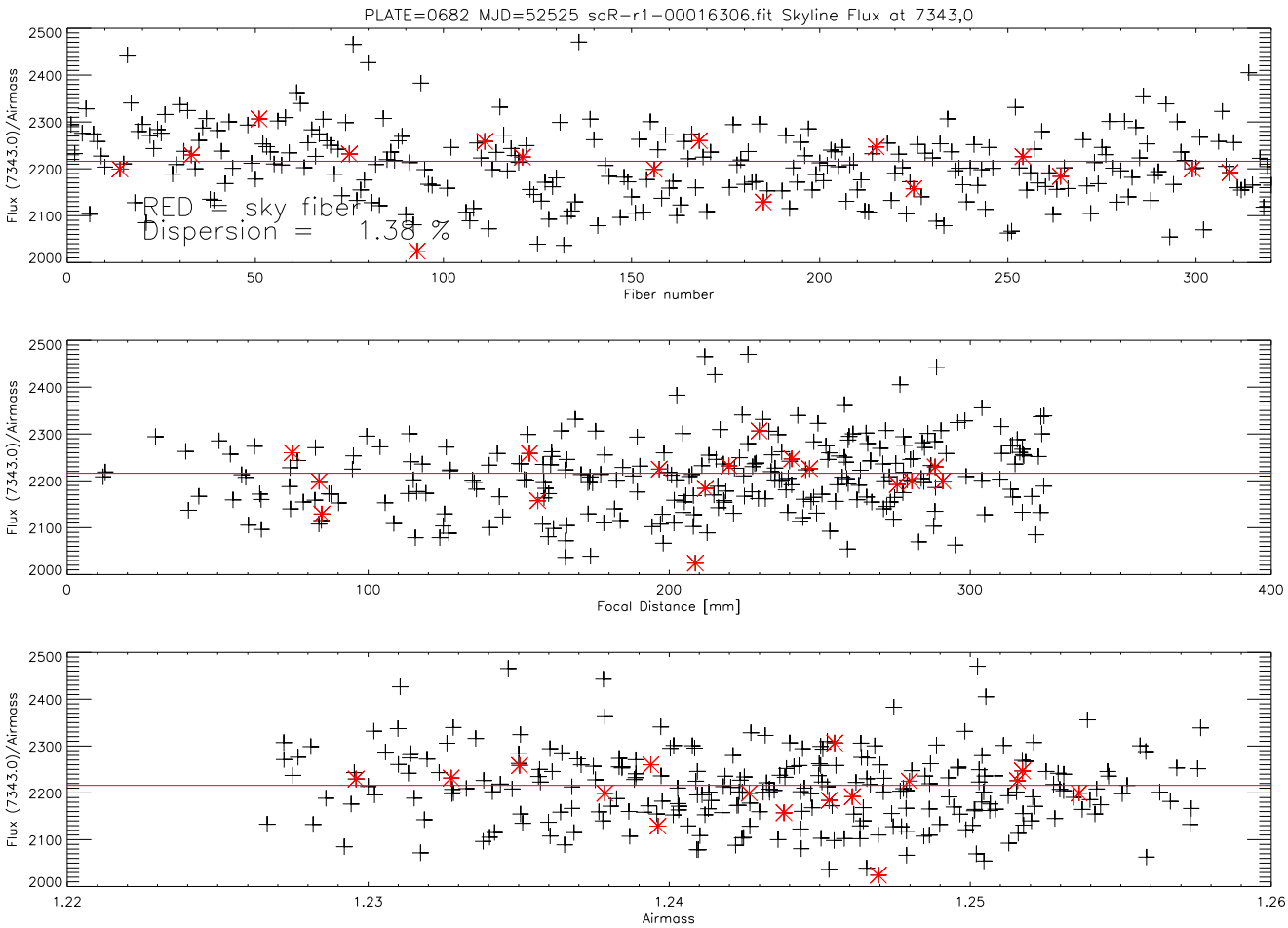

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r1-00016306.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

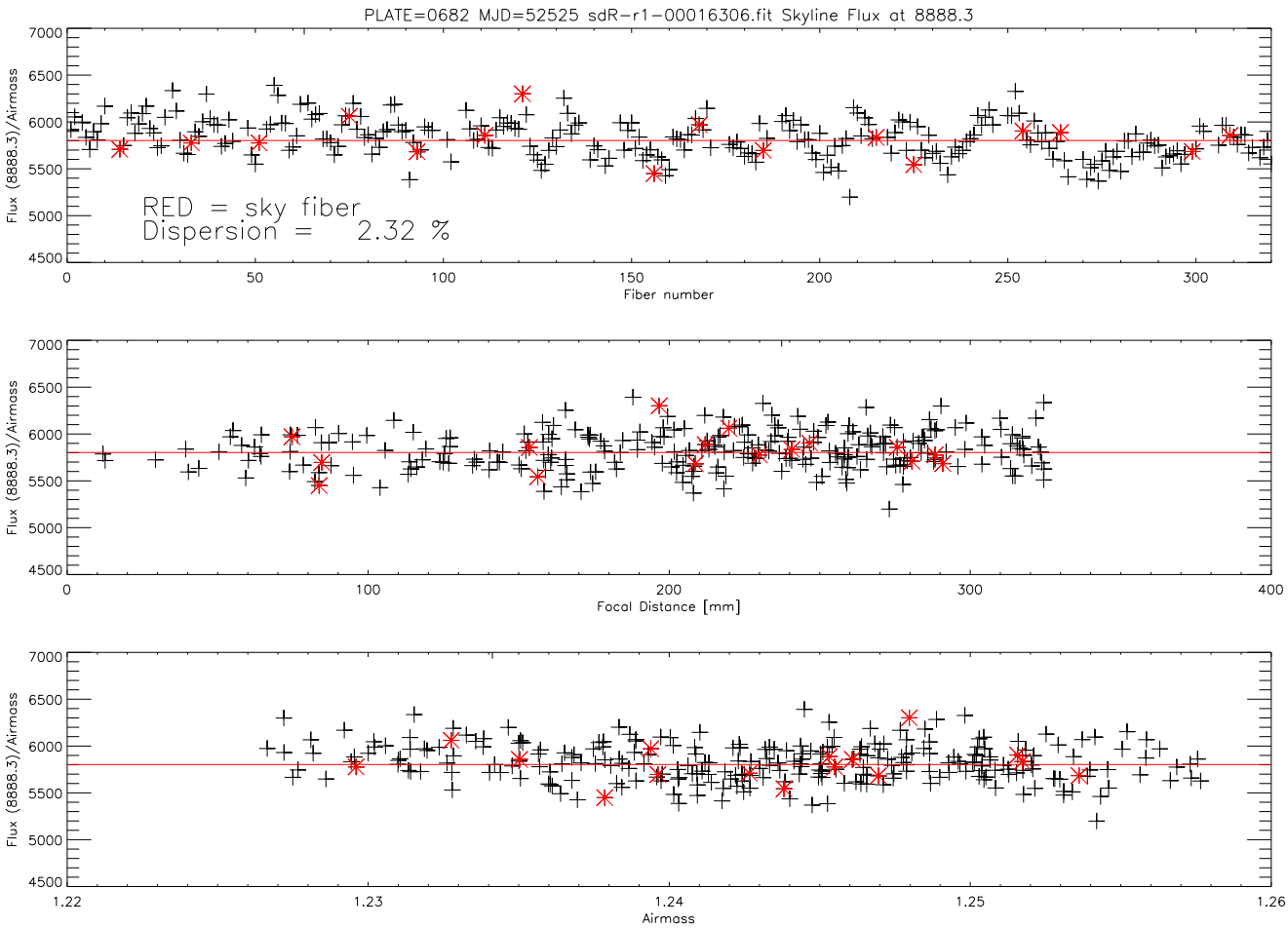

PLATE=0682 MJD=52525 sdR-r1-00016306.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

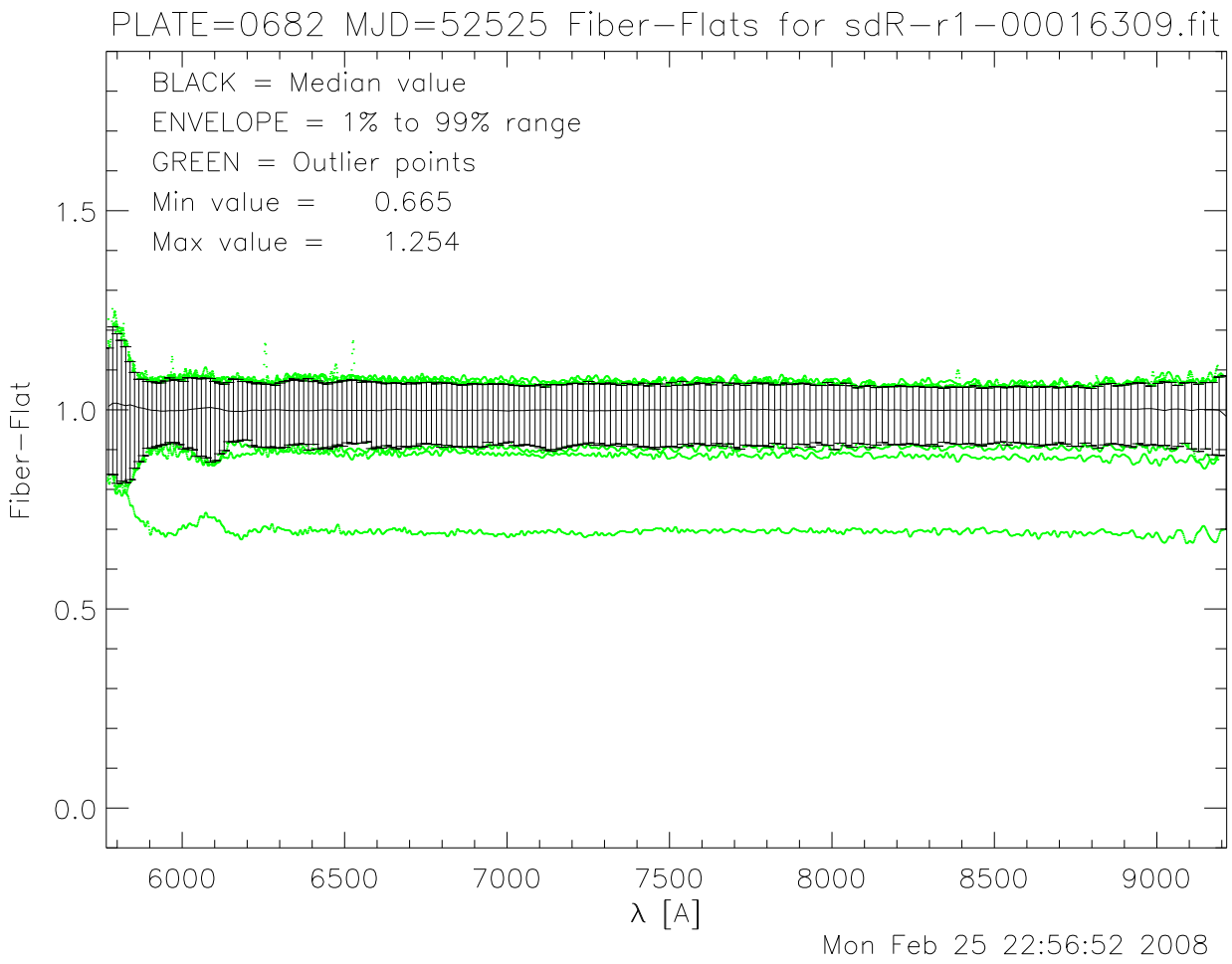

PLATE=0682 MJD=52525 sdR-r1-00016306.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

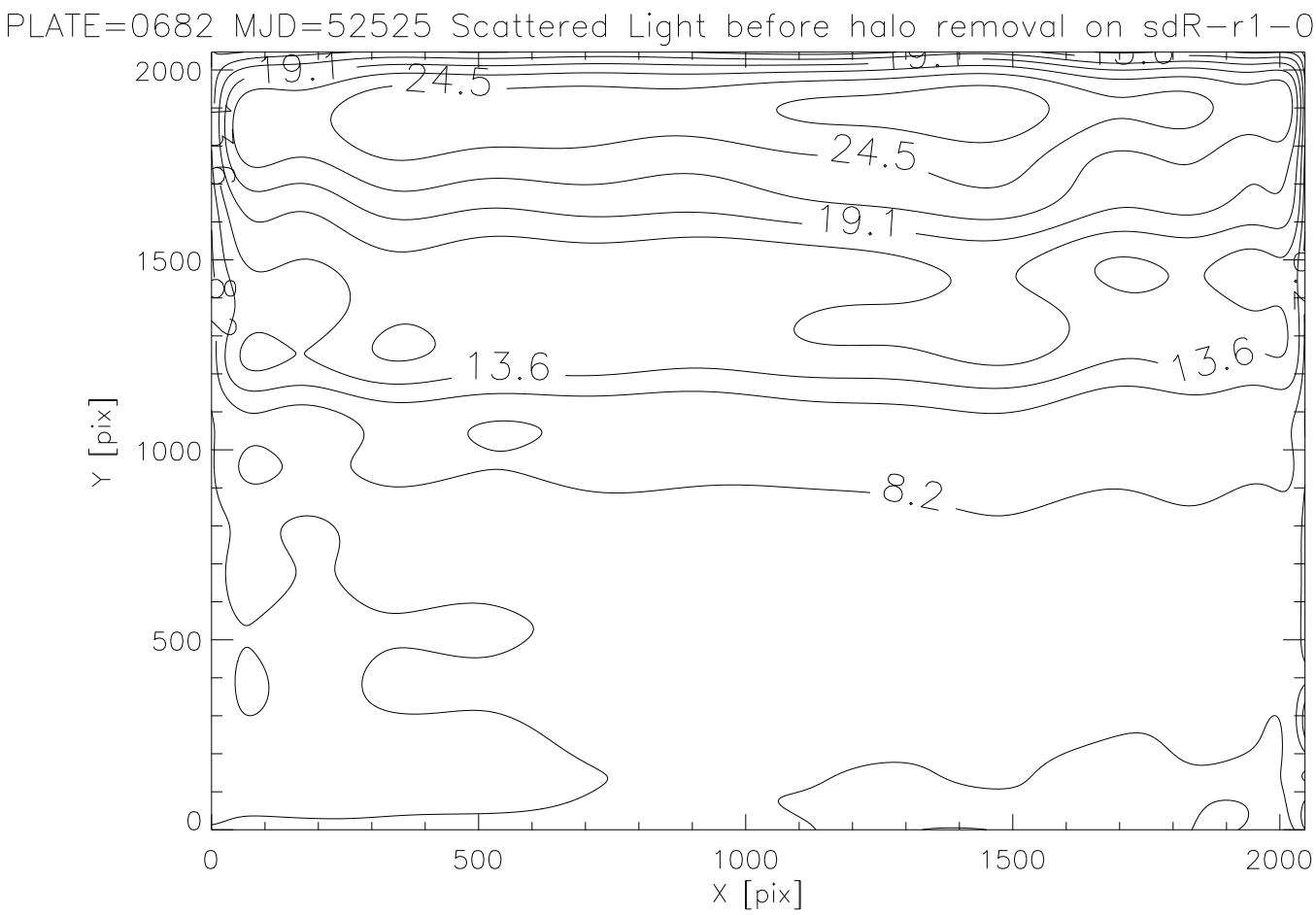

PLATE=0682 MJD=52525 sdR-r1-00016306.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

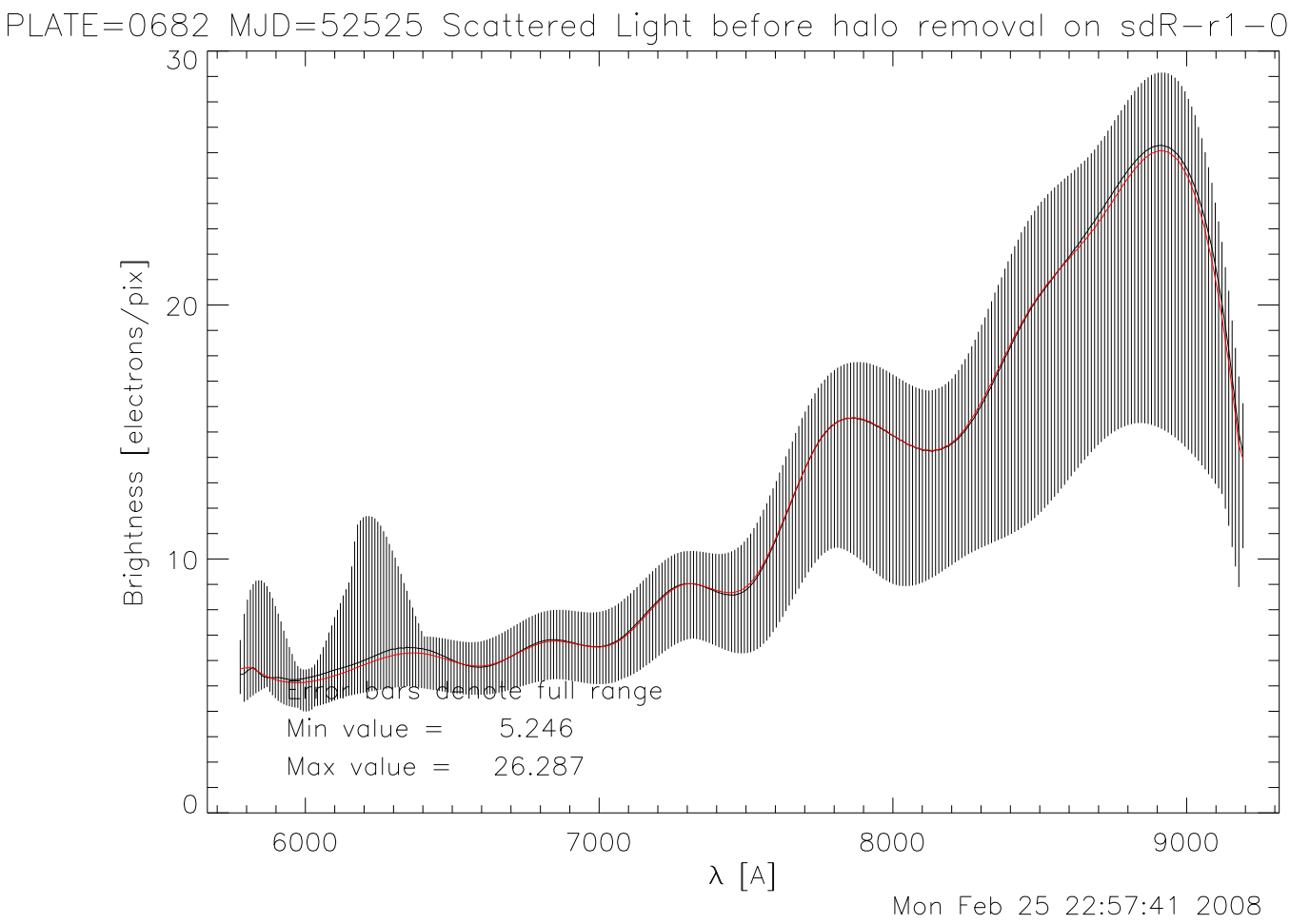

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r1-00016306.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

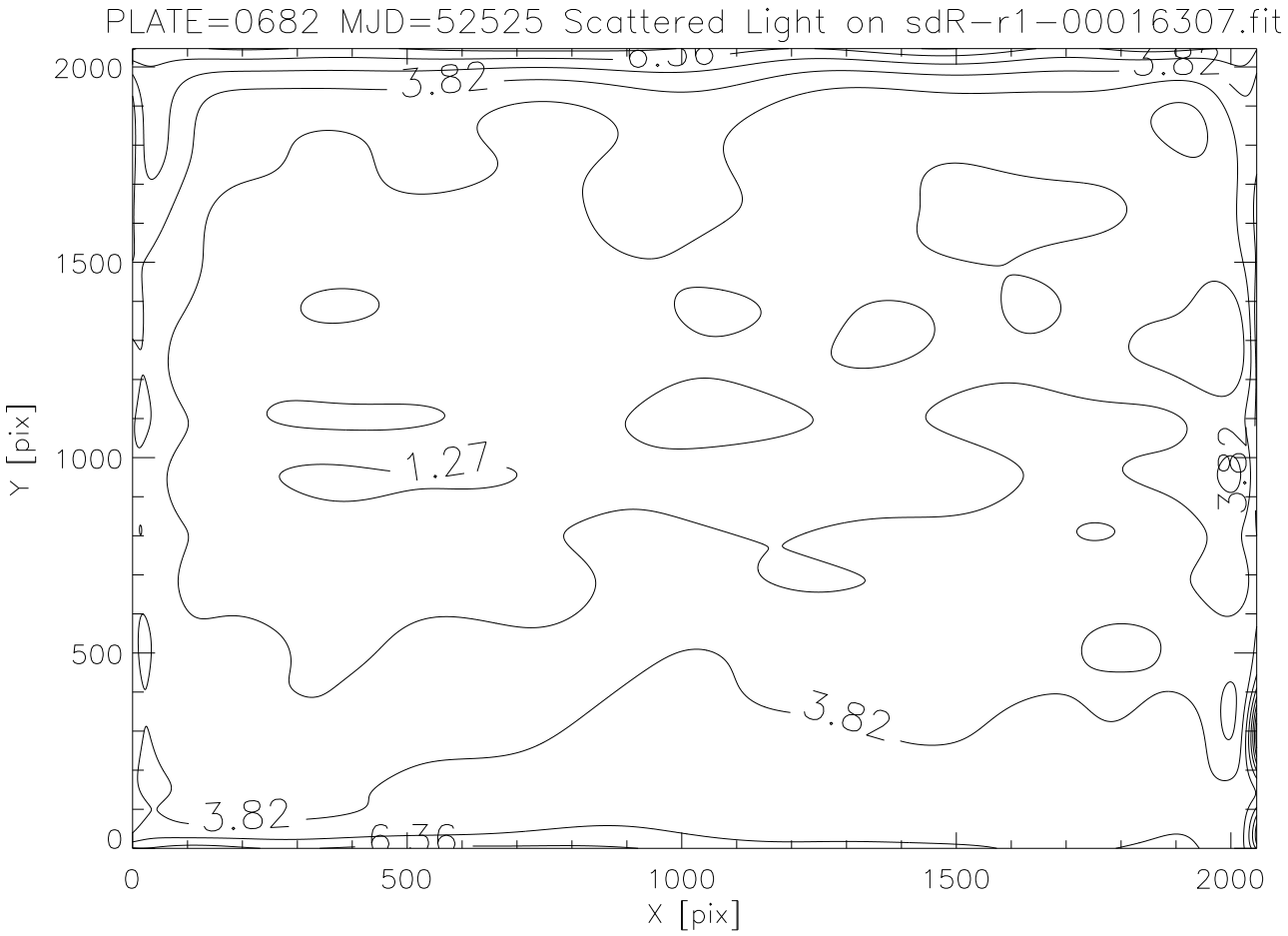

PLATE=0682 MJD=52525 sdR-r1-00016306.fit Skyline Flux at 7343,0
RED = sky fiber
Dispersion = 1.38 %
Flux (7343.0)/Airmass
Fiber number
Focal Distance [mm]
Airmass

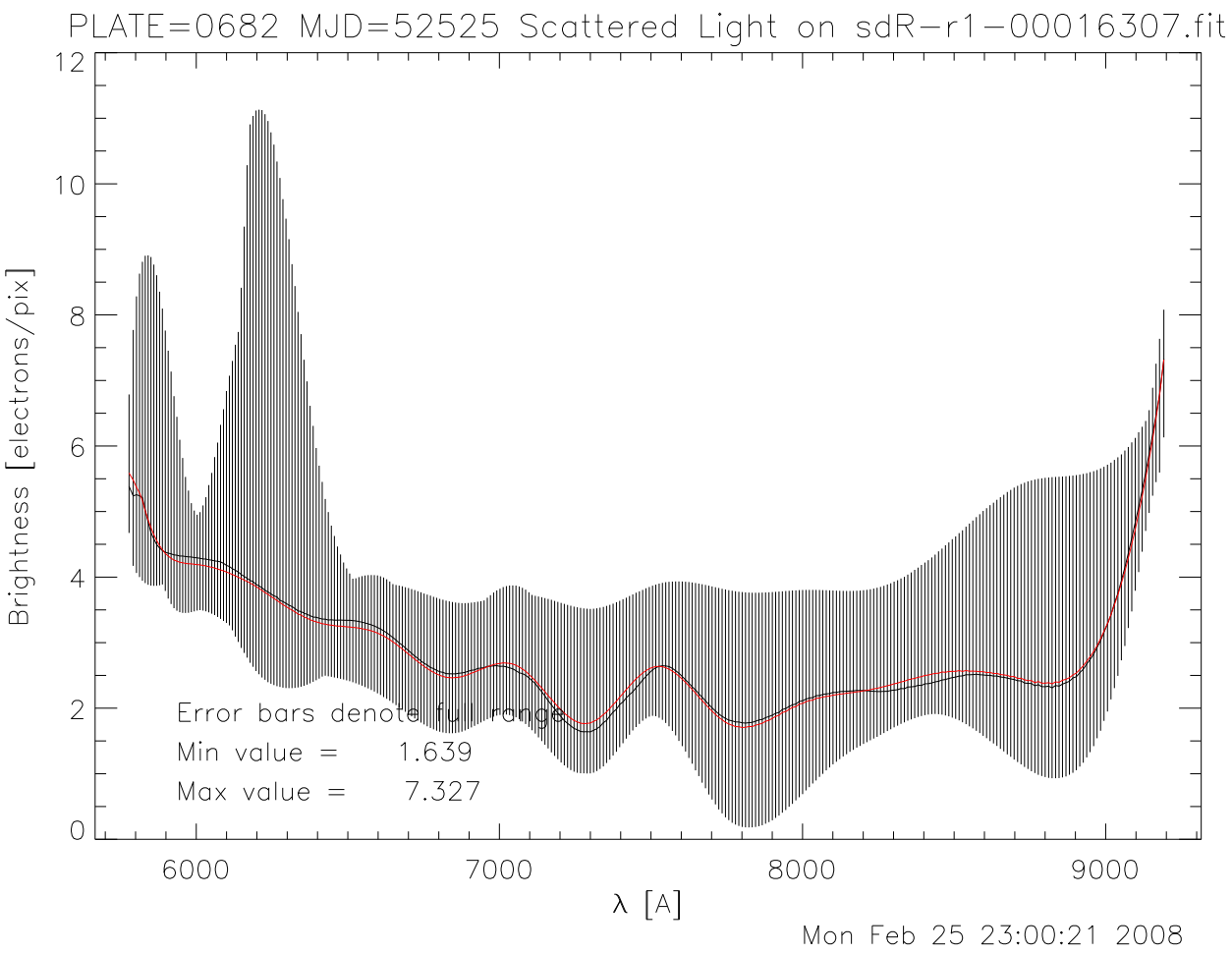

PLATE=0682 MJD=52525 sdR-r1-00016306.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.32 %
Fiber number
Focal Distance [mm]
Airmass

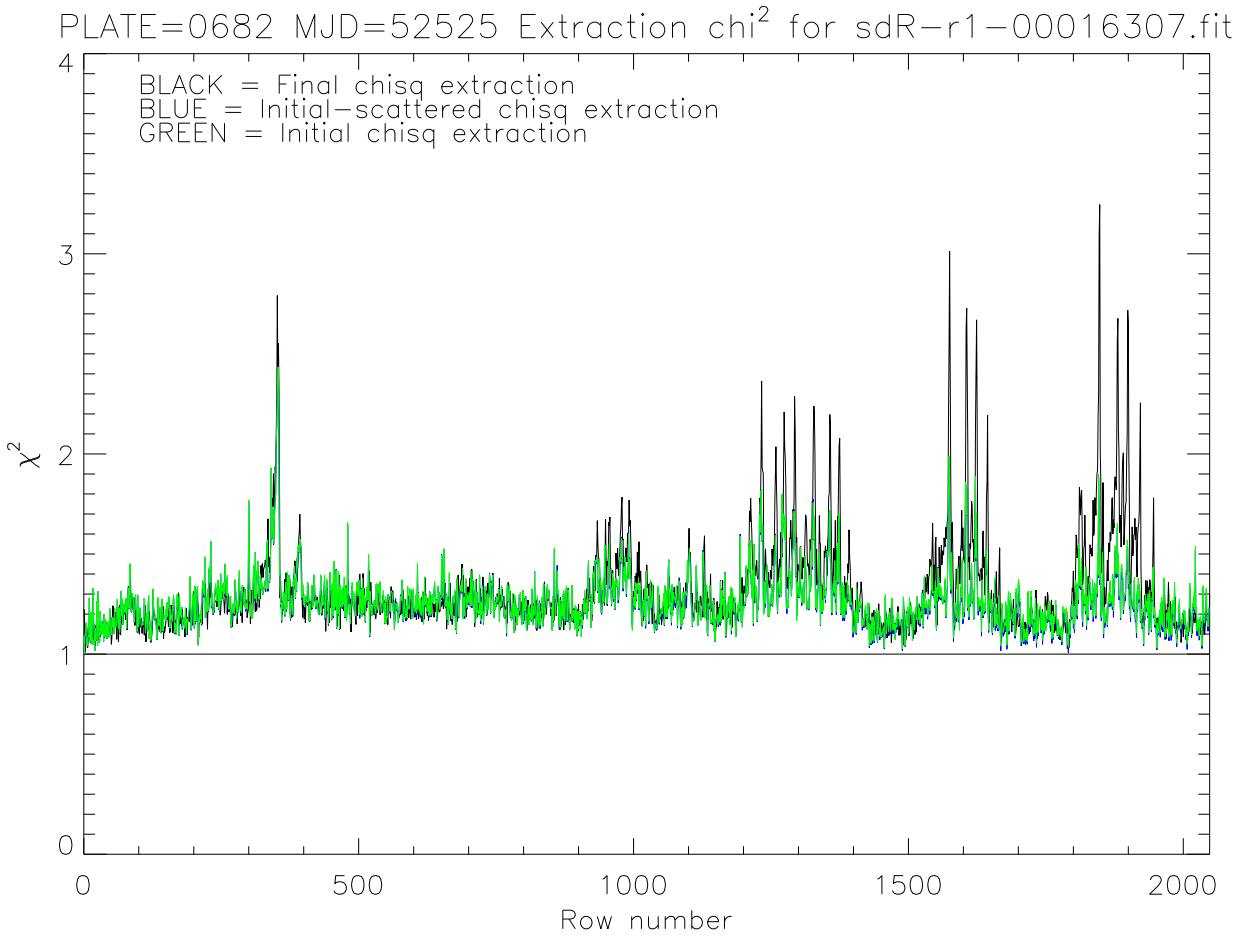

PLATE=0682 MJD=52525 Fiber−Flats for sdR−r1−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.665
Max value = 1.254
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 22:56:52 2008

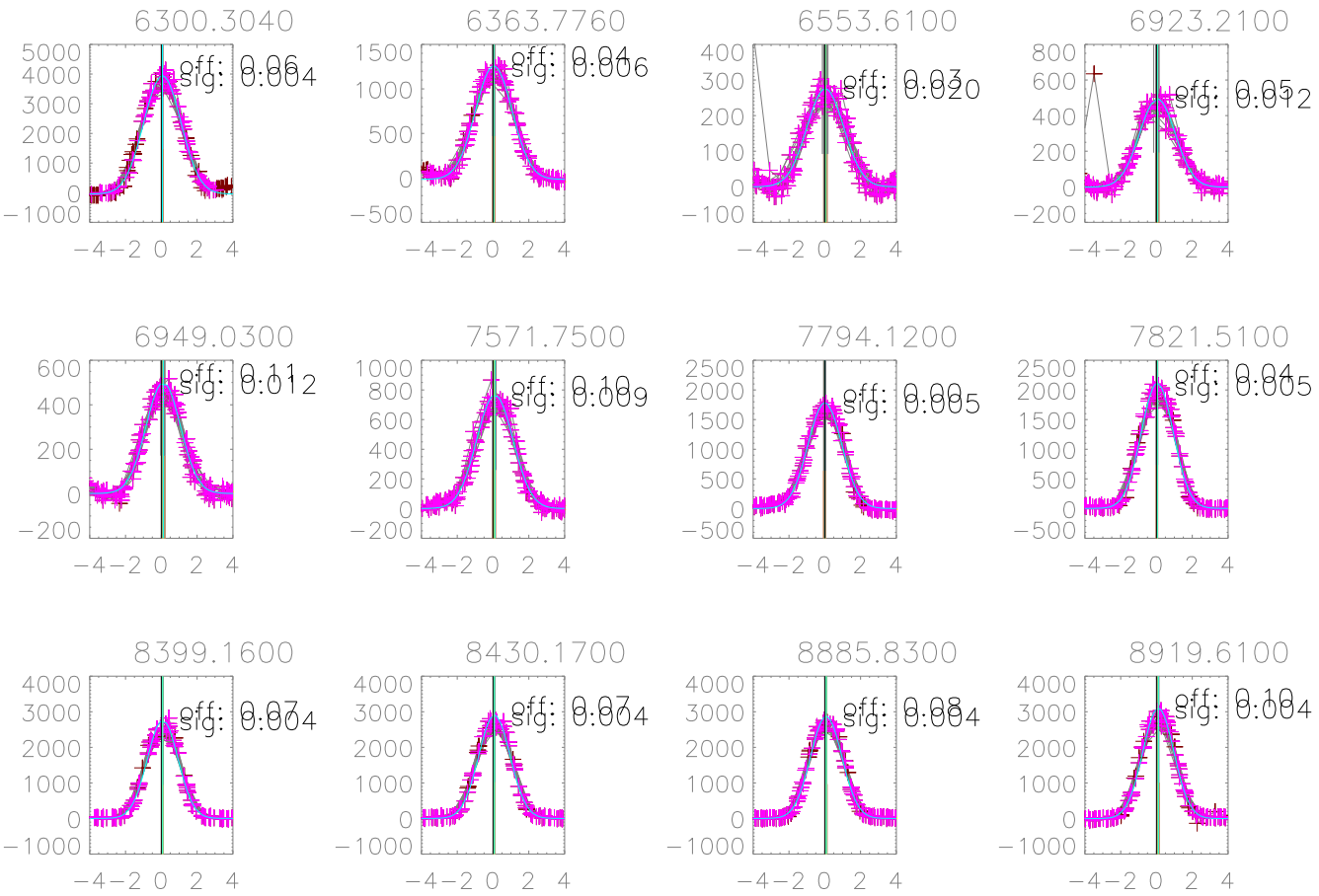

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r1-00016307.fi
19.1
24.5
24.5
19.1
13.6
13.6
8.2
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

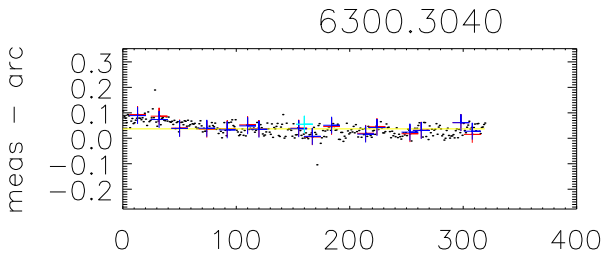

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r1-00016307.fi
Brightness [electrons/pix]
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.246
Max value = 26.287
Mon Feb 25 22:57:41 2008

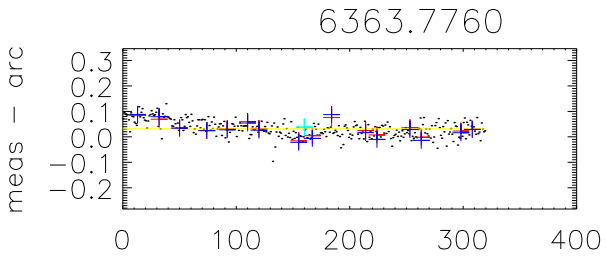

PLATE=0682 MJD=52525 Scattered Light on sdR−r1−00016307.fit
3.82
3.82
1.27
3.82
3.82
3.82
6.36
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

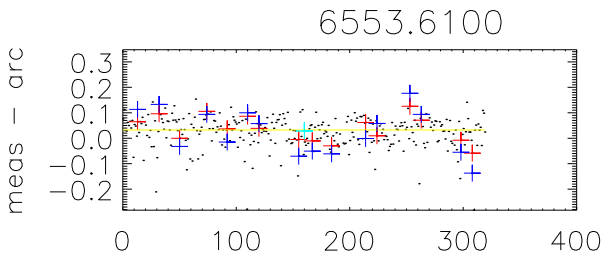

PLATE=0682 MJD=52525 Scattered Light on sdR-r1-00016307.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.639
Max value = 7.327
Mon Feb 25 23:00:21 2008

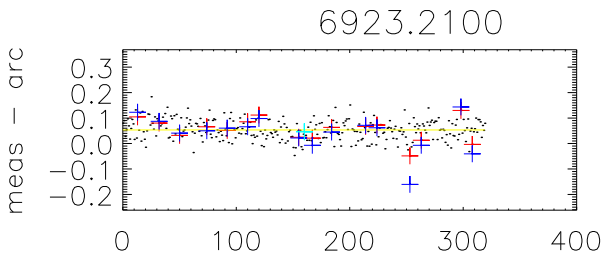

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR−r1−00016307.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
1
2
3
4
0
500
1000
1500
2000
Row number

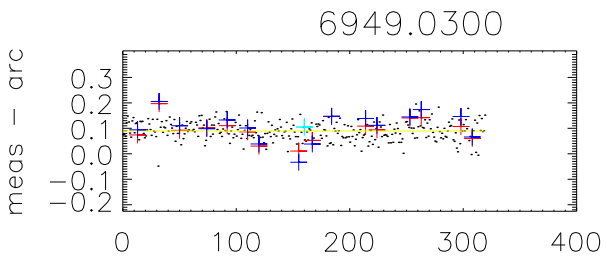

6300.3040
off: 0.06
sig: 0.004
6363.7760
off: 0.04
sig: 0.006
6553.6100
off: 0.03
sig: 0.020
6923.2100
off: 0.05
sig: 0.012
6949.0300
off: 0.11
sig: 0.012
7571.7500
off: 0.10
sig: 0.009
7794.1200
off: 0.00
sig: 0.005
7821.5100
off: 0.04
sig: 0.005
8399.1600
off: 0.07
sig: 0.004
8430.1700
off: 0.07
sig: 0.004
8885.8300
off: 0.08
sig: 0.004
8919.6100
off: 0.10
sig: 0.004

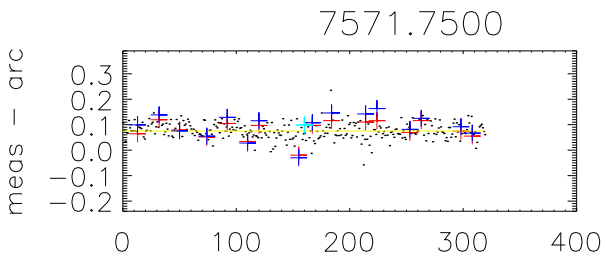

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

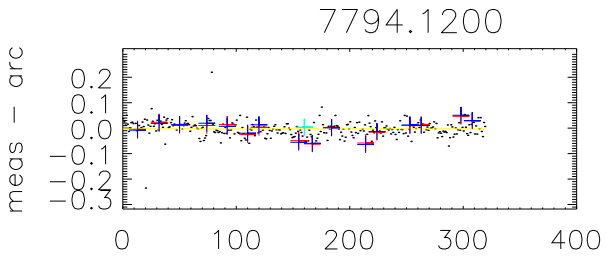

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

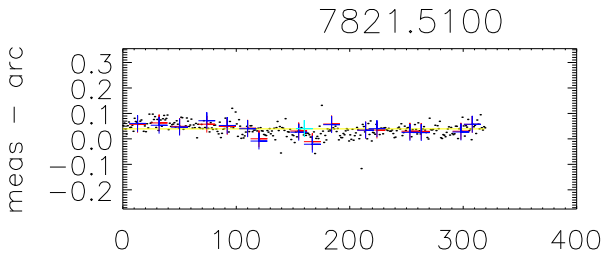

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

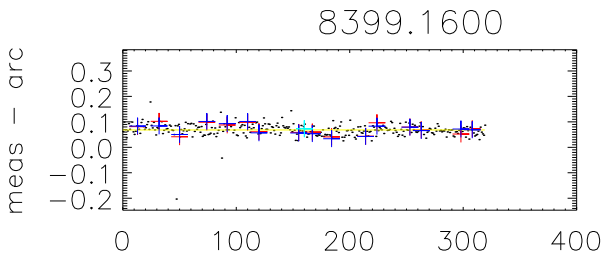

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

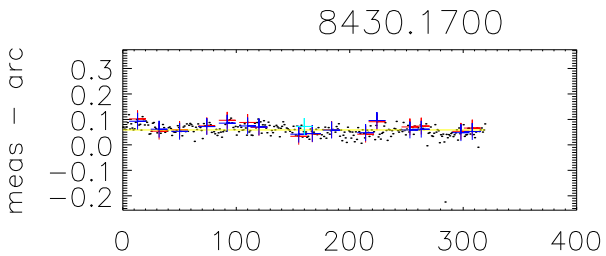

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

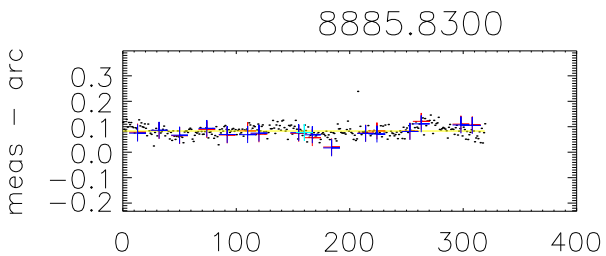

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

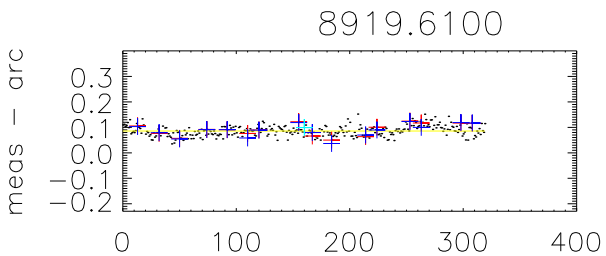

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

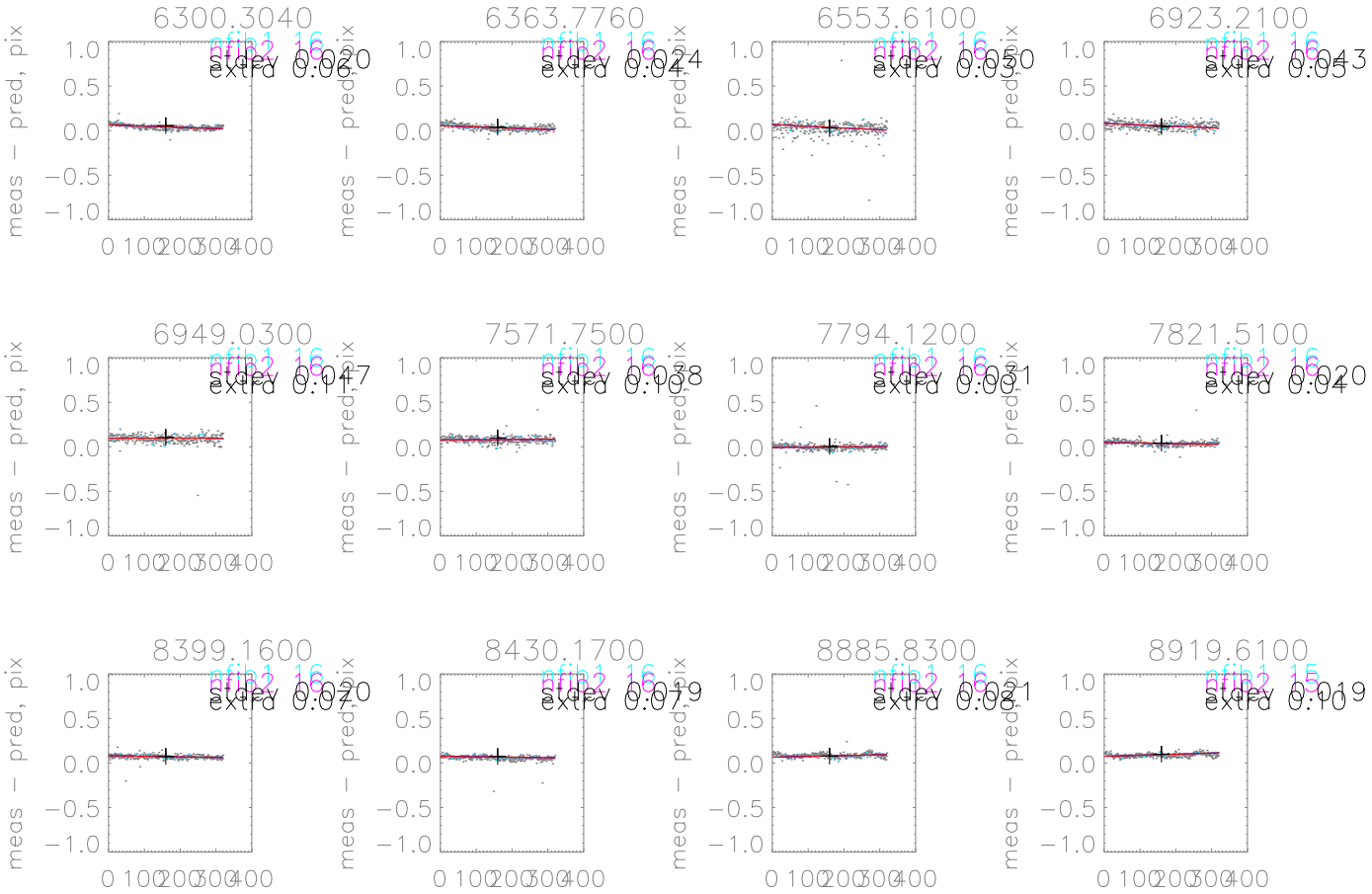

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

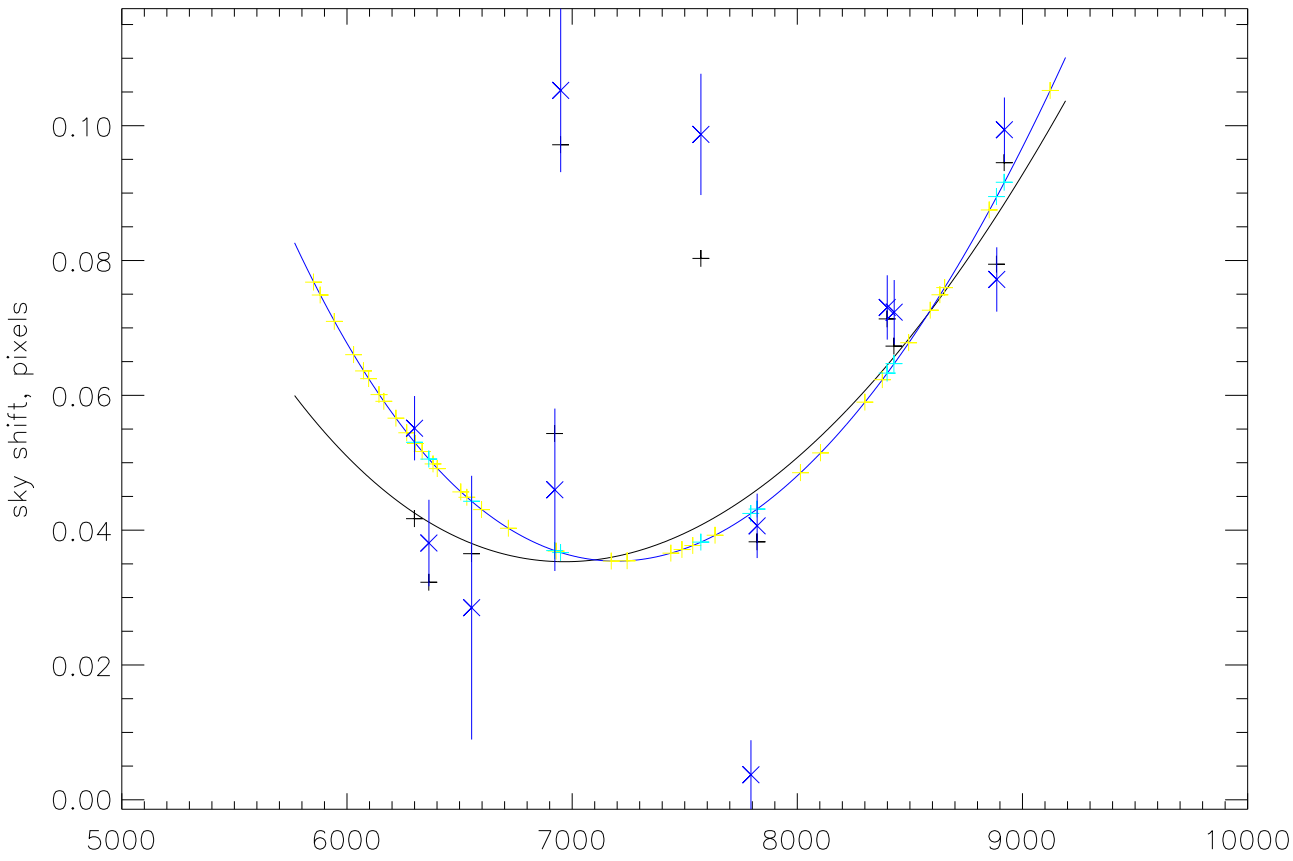

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

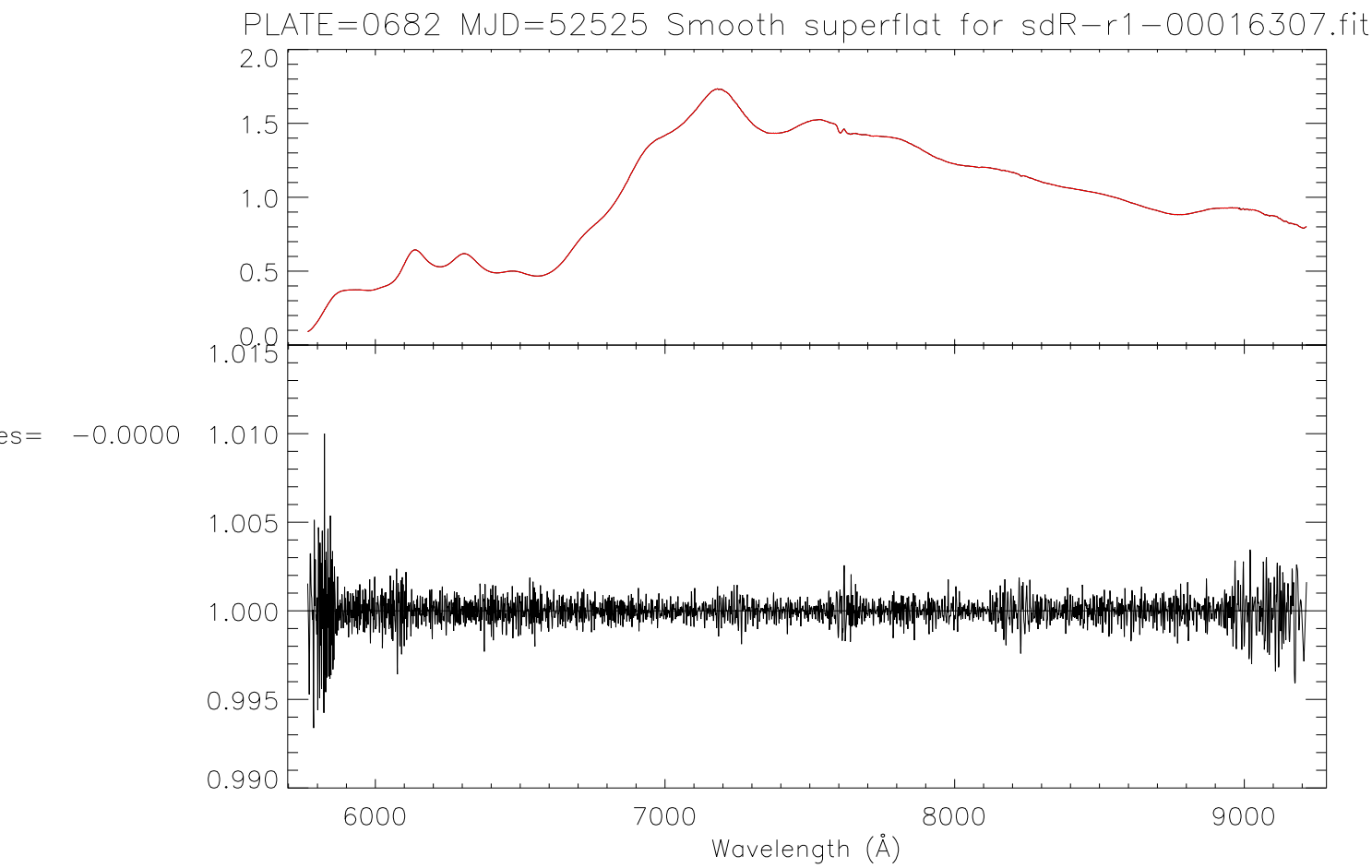

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

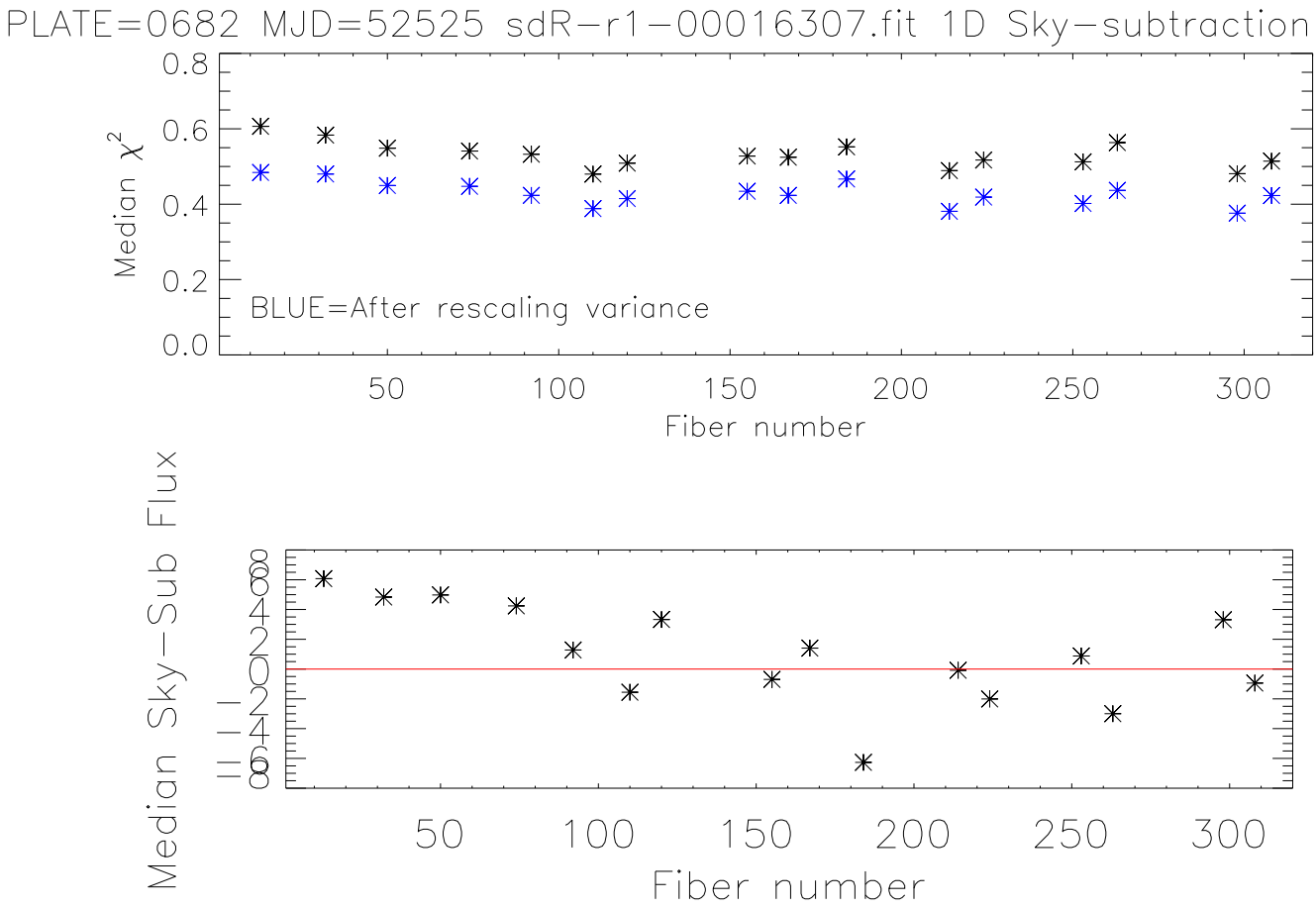

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

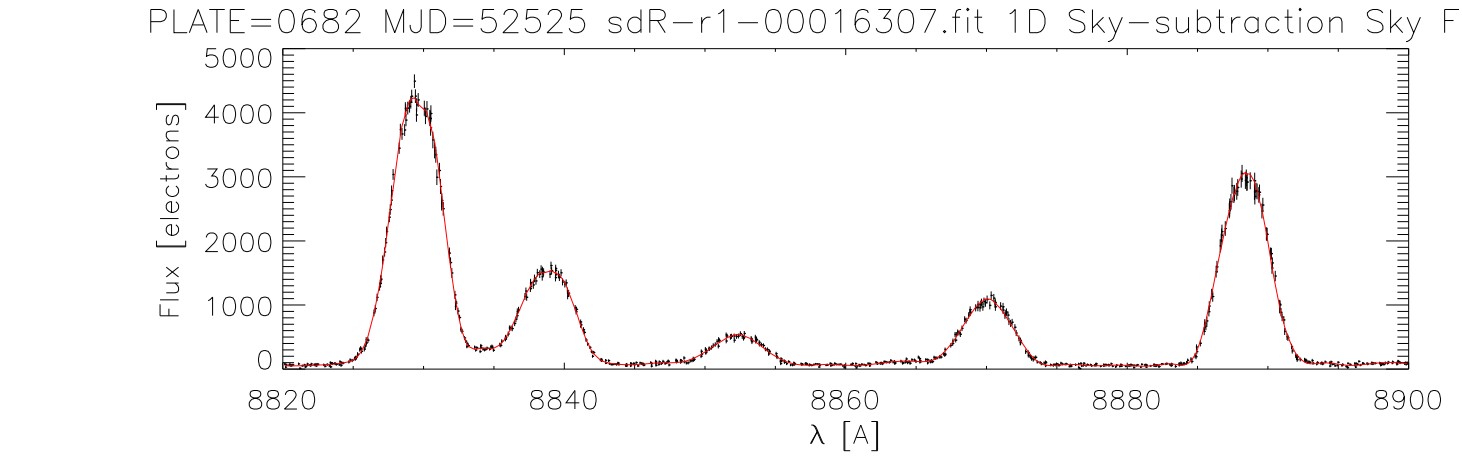

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

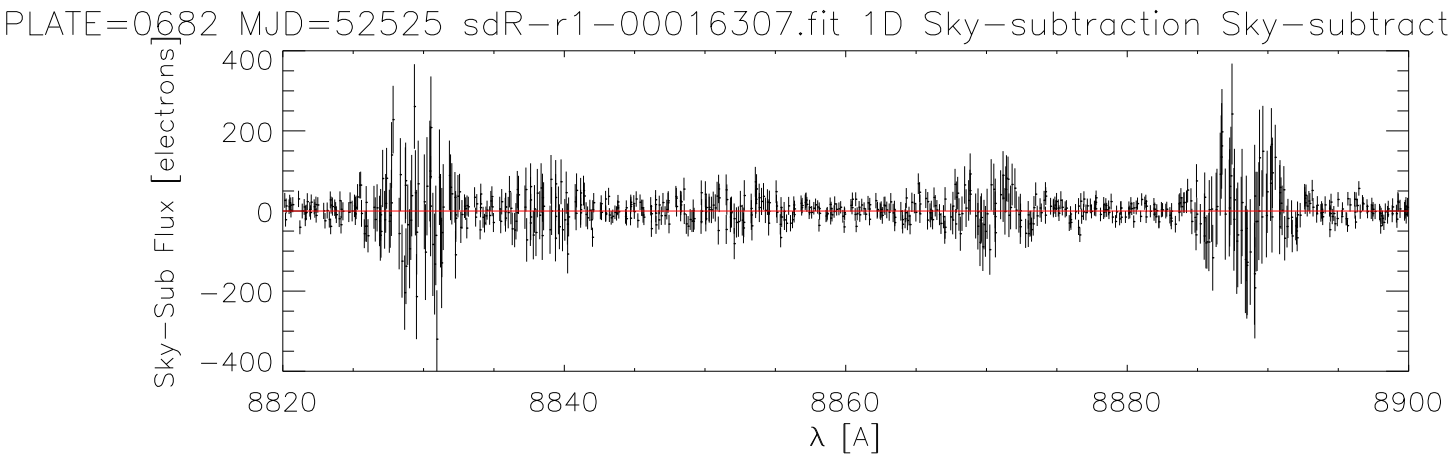

6300.3040
stdev 0.020
extra 0.06
6363.7760
stdev 0.024
extra 0.04
6553.6100
stdev 0.050
extra 0.03
6923.2100
stdev 0.043
extra 0.05
6949.0300
stdev 0.047
extra 0.11
7571.7500
stdev 0.038
extra 0.10
7794.1200
stdev 0.031
extra 0.00
7821.5100
stdev 0.020
extra 0.04
8399.1600
stdev 0.020
extra 0.07
8430.1700
stdev 0.079
extra 0.07
8885.8300
stdev 0.021
extra 0.08
8919.6100
stdev 0.019
extra 0.10
meas − pred, pix

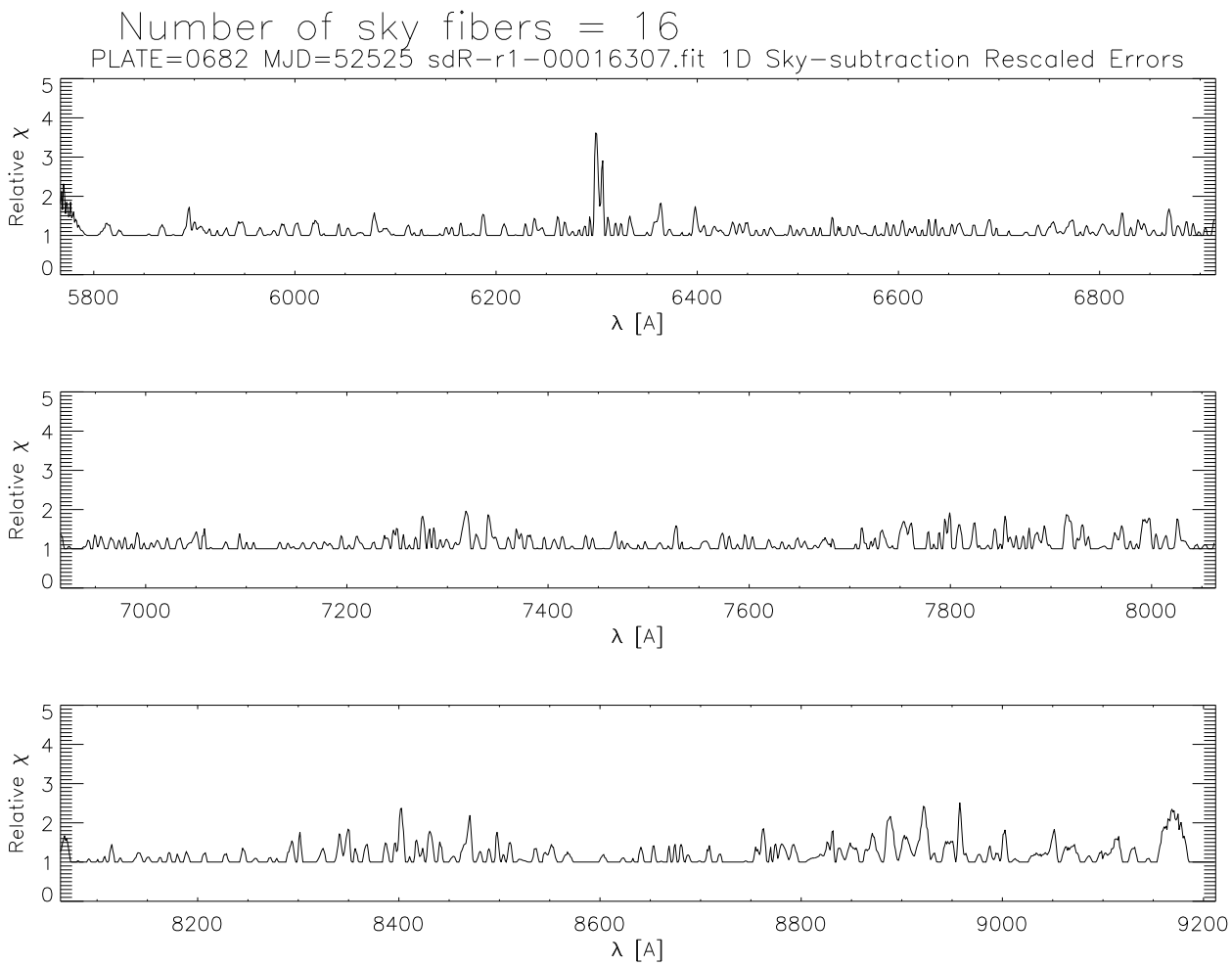

sky shift, pixels
0.00
0.02
0.04
0.06
0.08
0.10
5000
6000
7000
8000
9000
10000

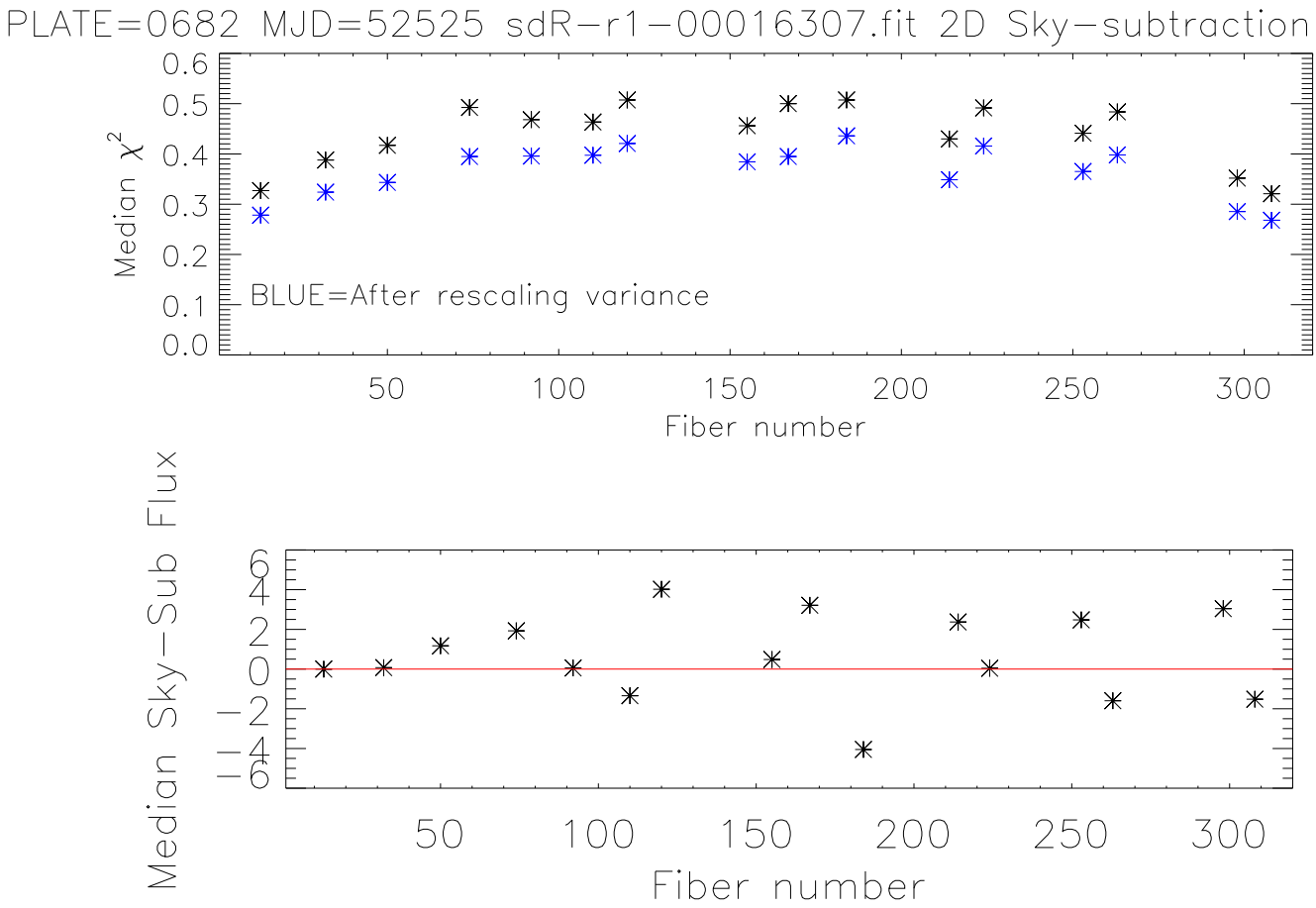

PLATE=0682 MJD=52525 Smooth superflat for sdR-r1-00016307.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.015
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

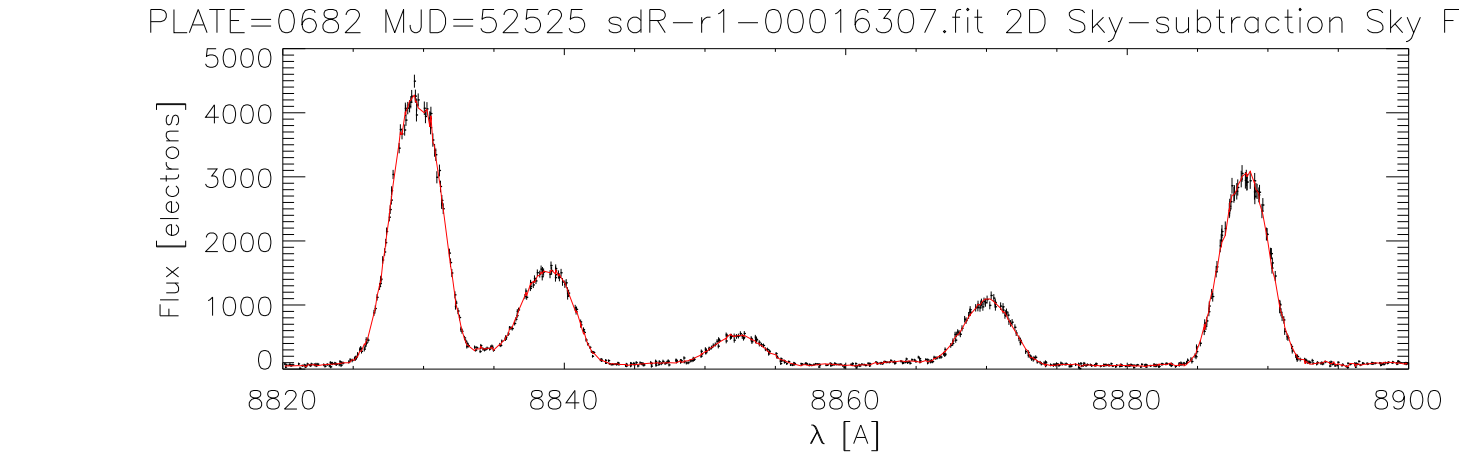

PLATE=0682 MJD=52525 sdR-r1-00016307.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

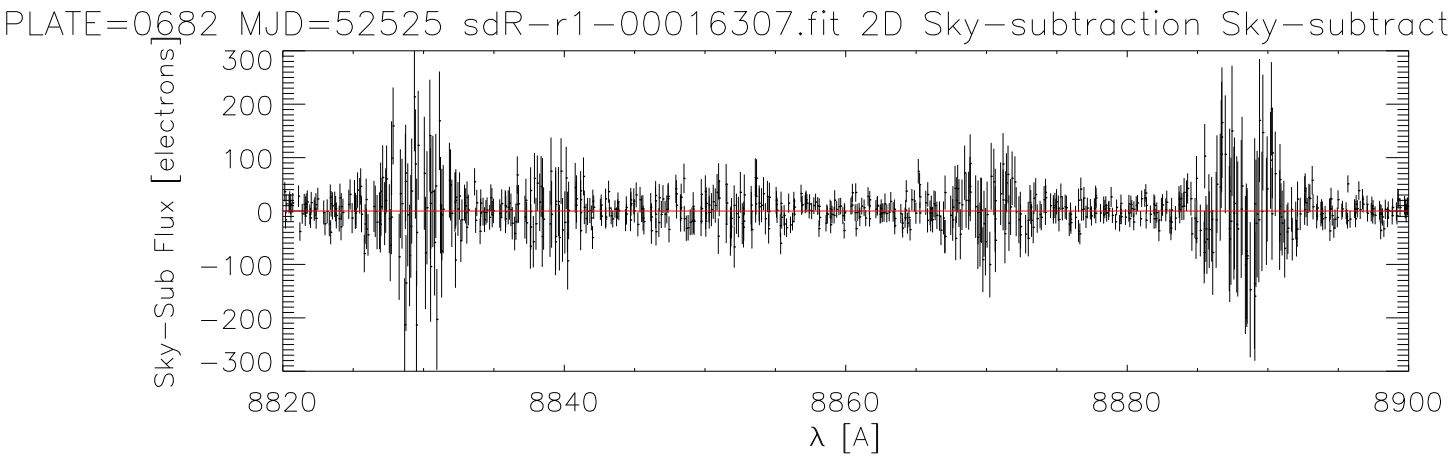

PLATE=0682 MJD=52525 sdR-r1-00016307.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

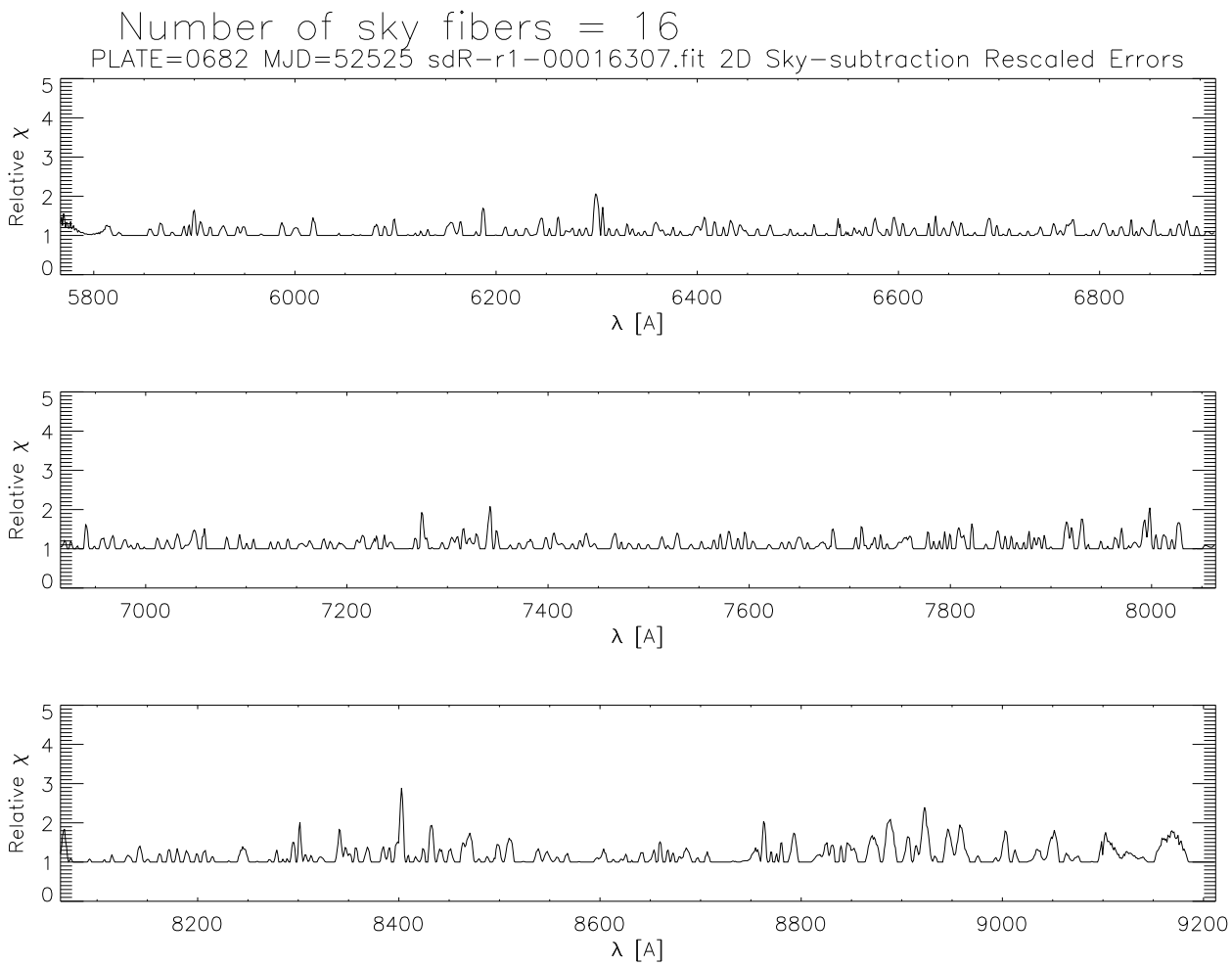

PLATE=0682 MJD=52525 sdR-r1-00016307.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

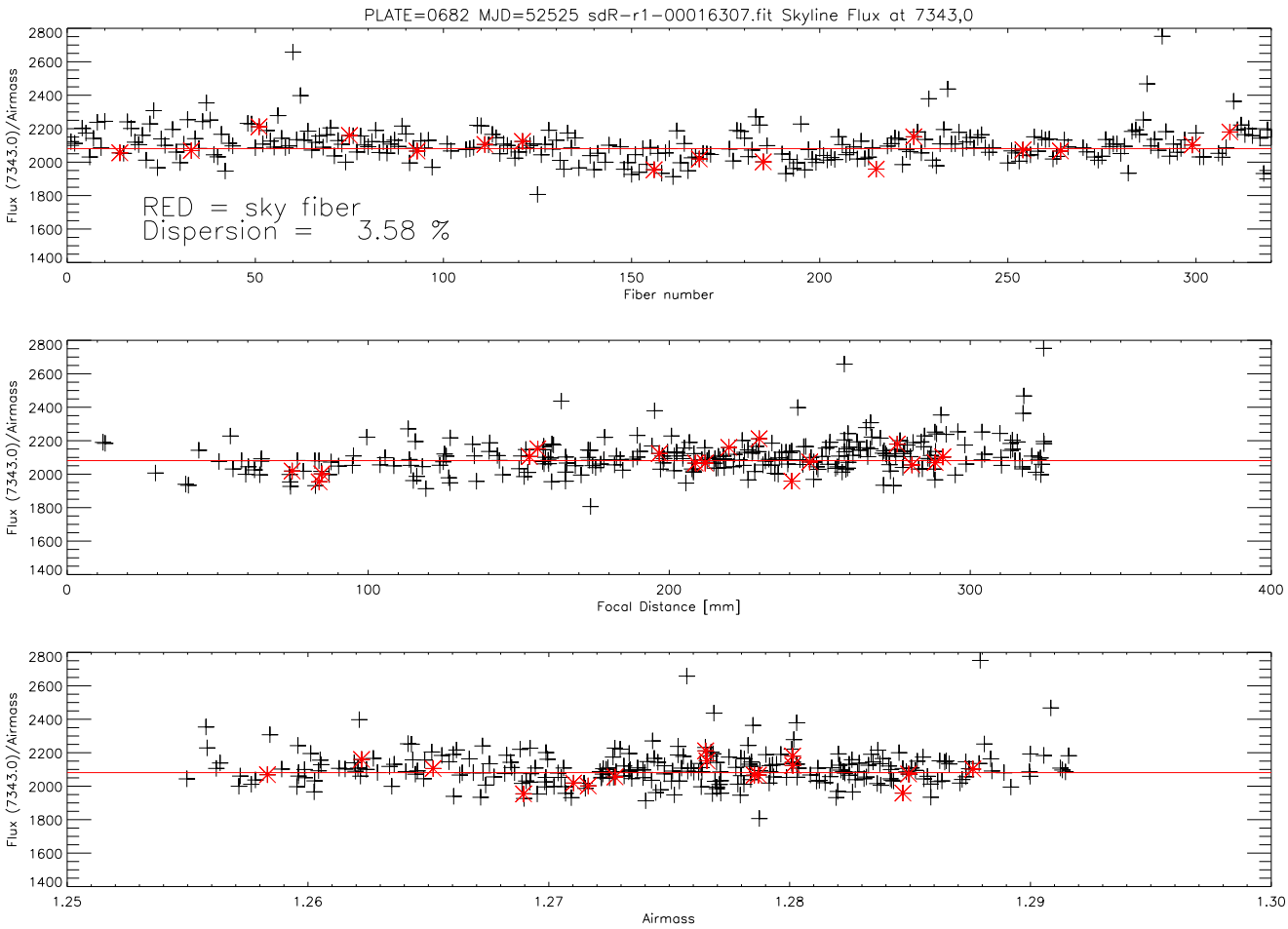

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r1-00016307.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

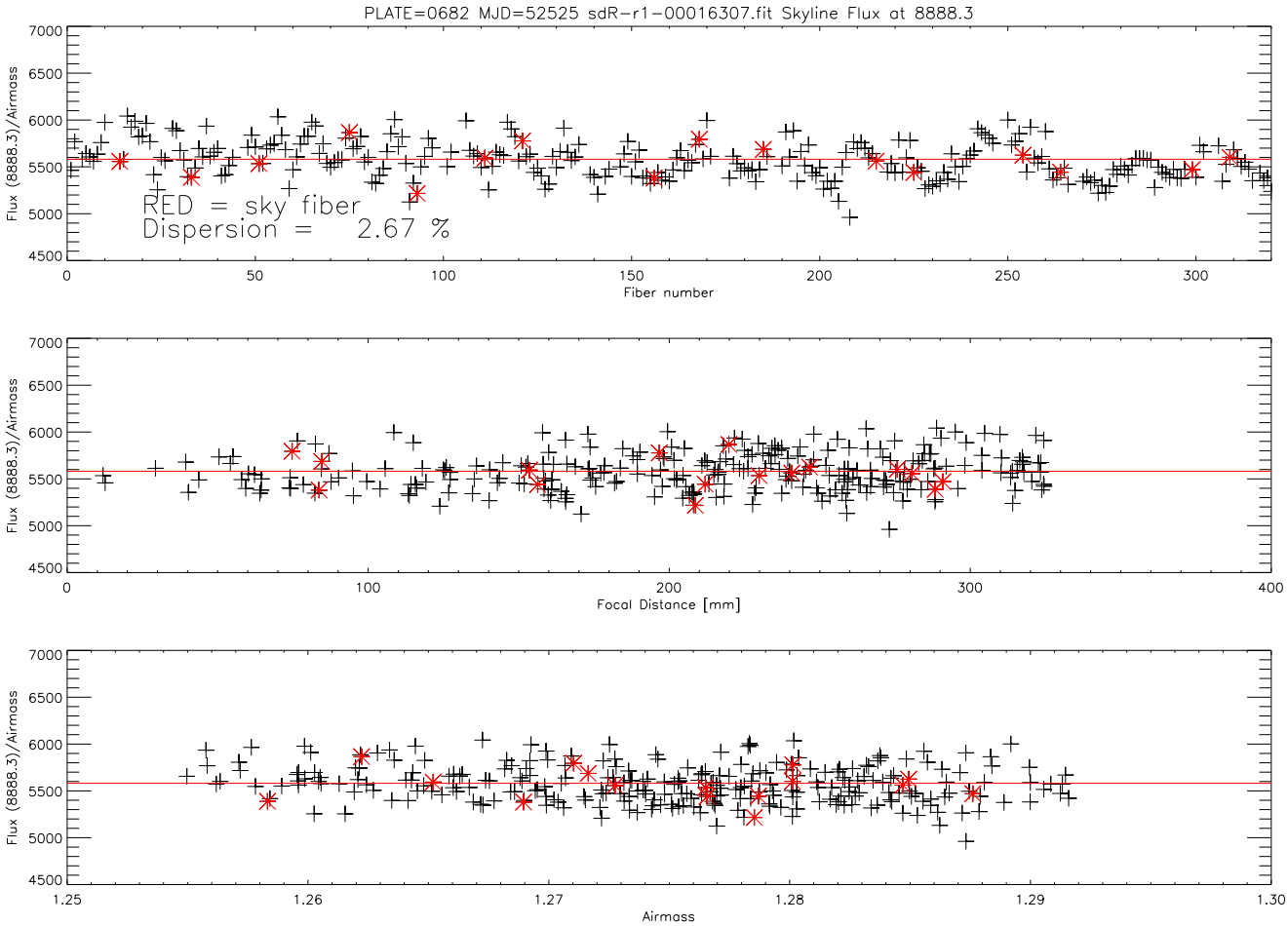

PLATE=0682 MJD=52525 sdR-r1-00016307.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

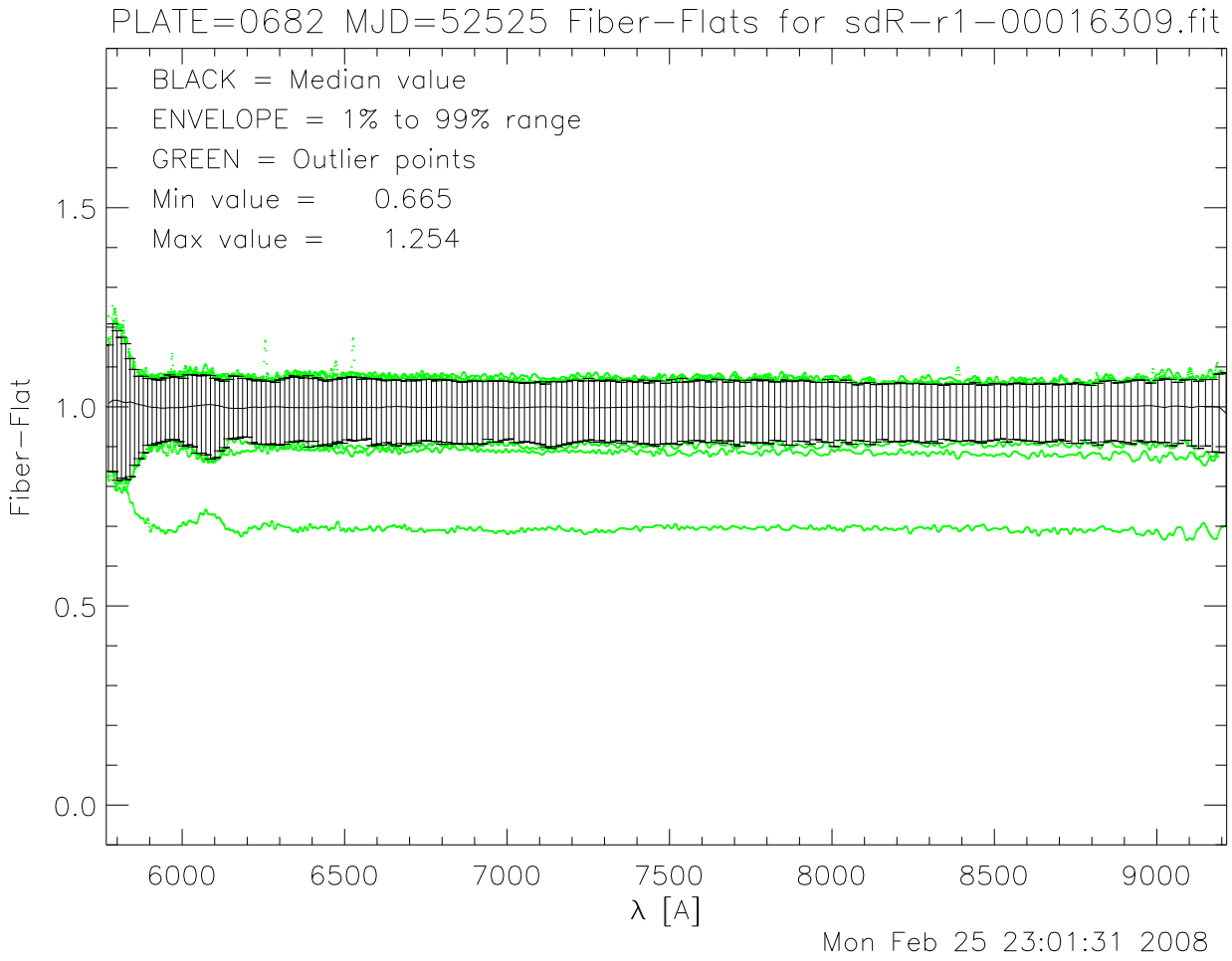

PLATE=0682 MJD=52525 sdR-r1-00016307.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

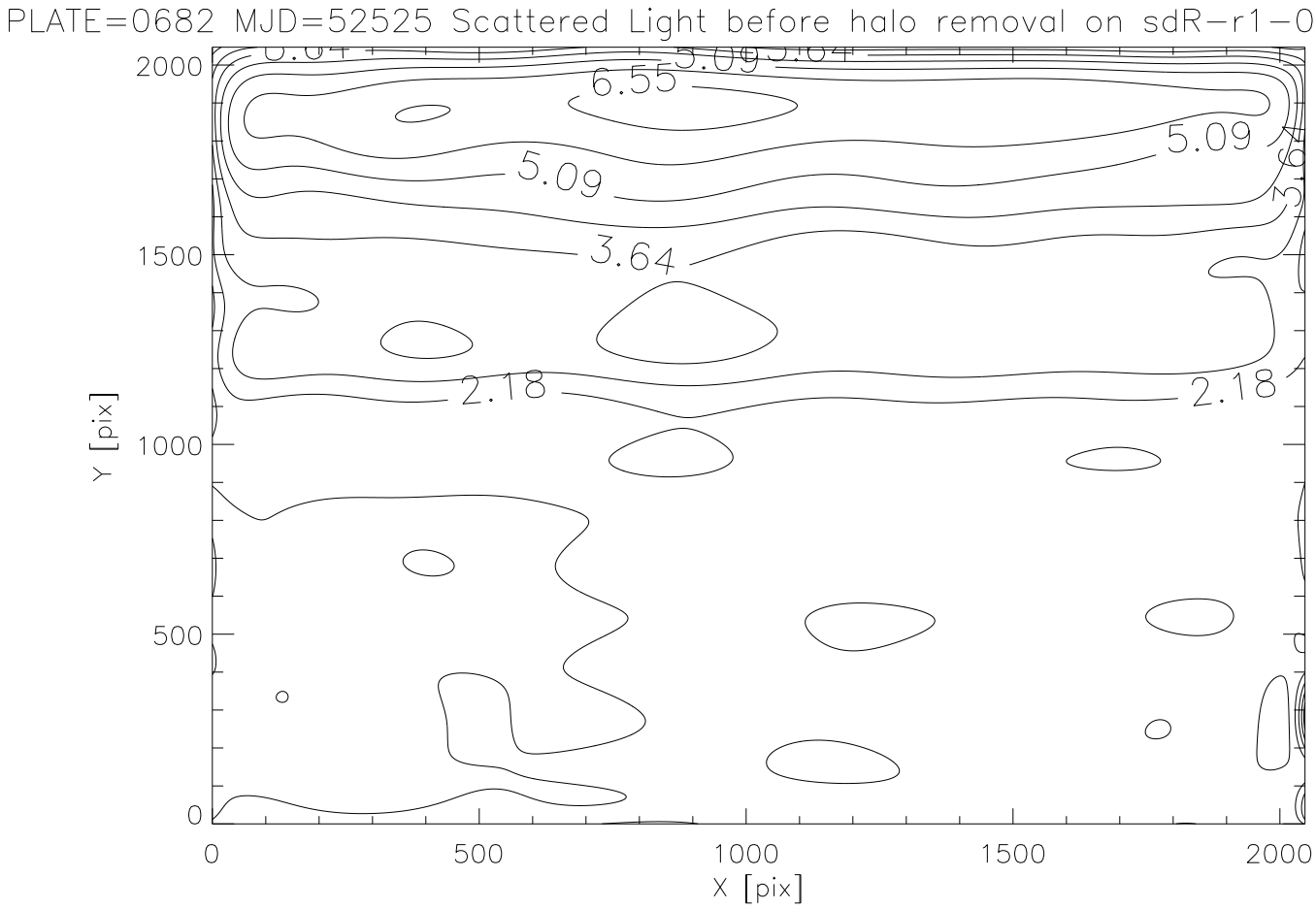

PLATE=0682 MJD=52525 sdR-r1-00016307.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

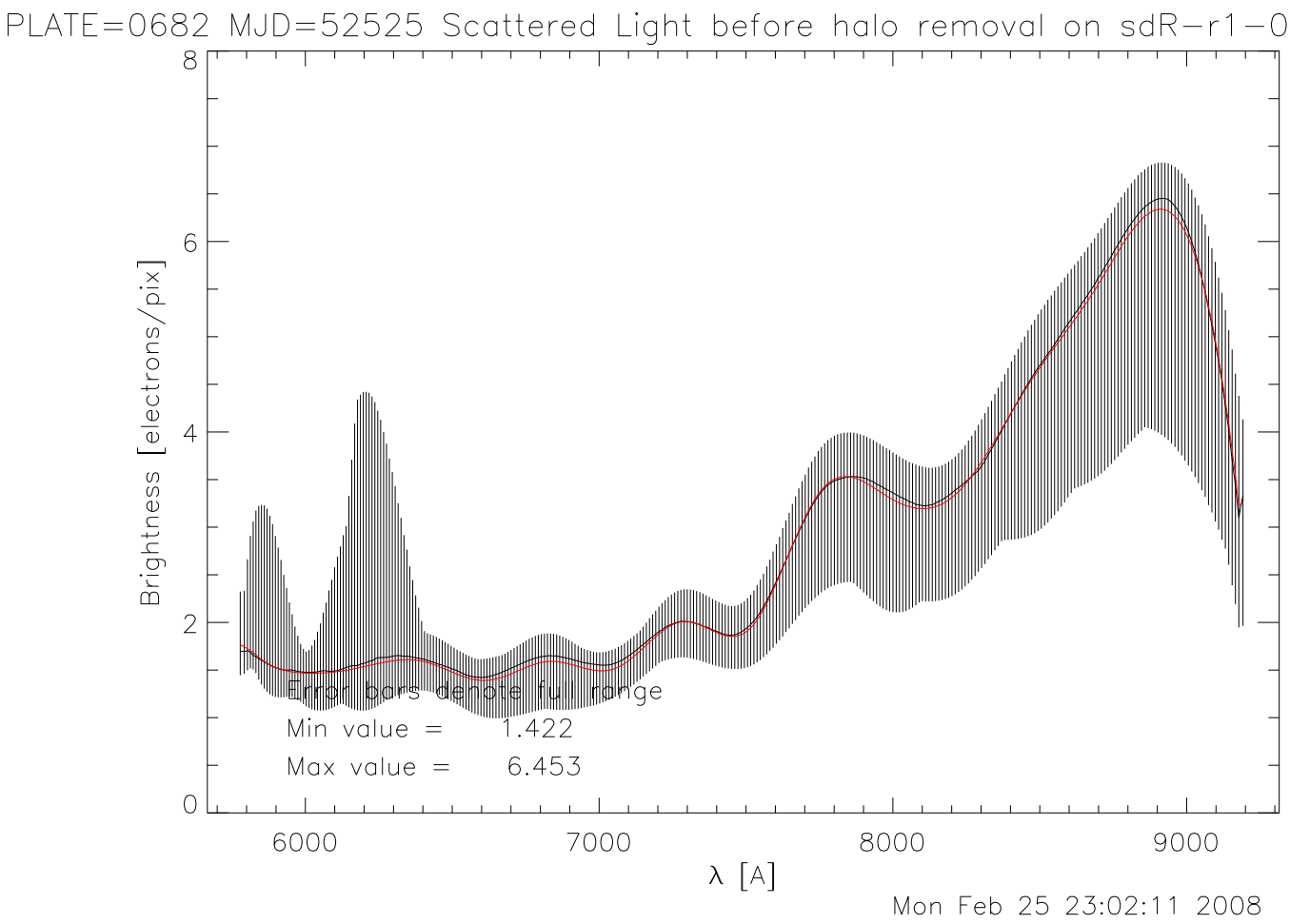

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r1-00016307.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

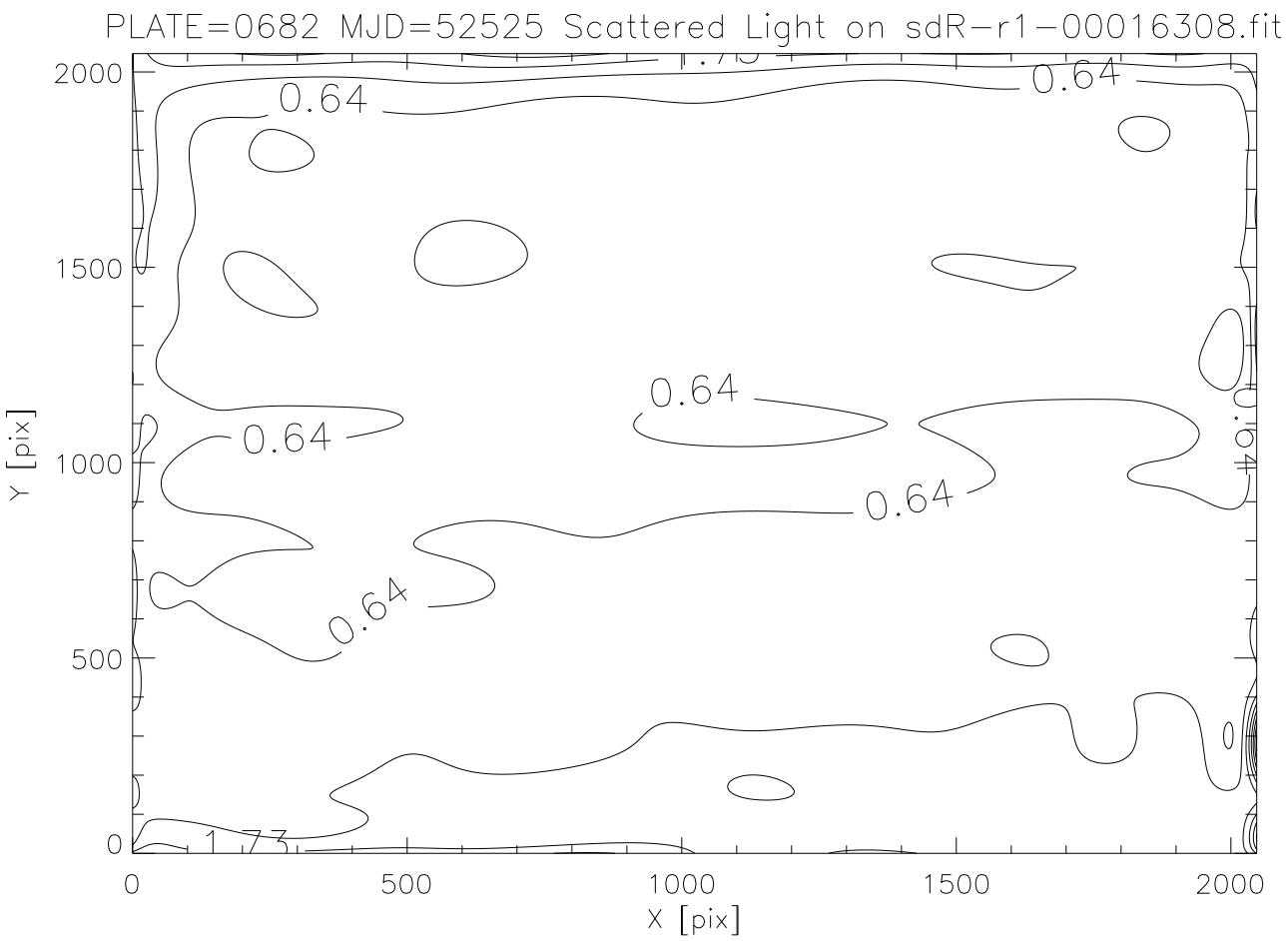

PLATE=0682 MJD=52525 sdR-r1-00016307.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.58 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

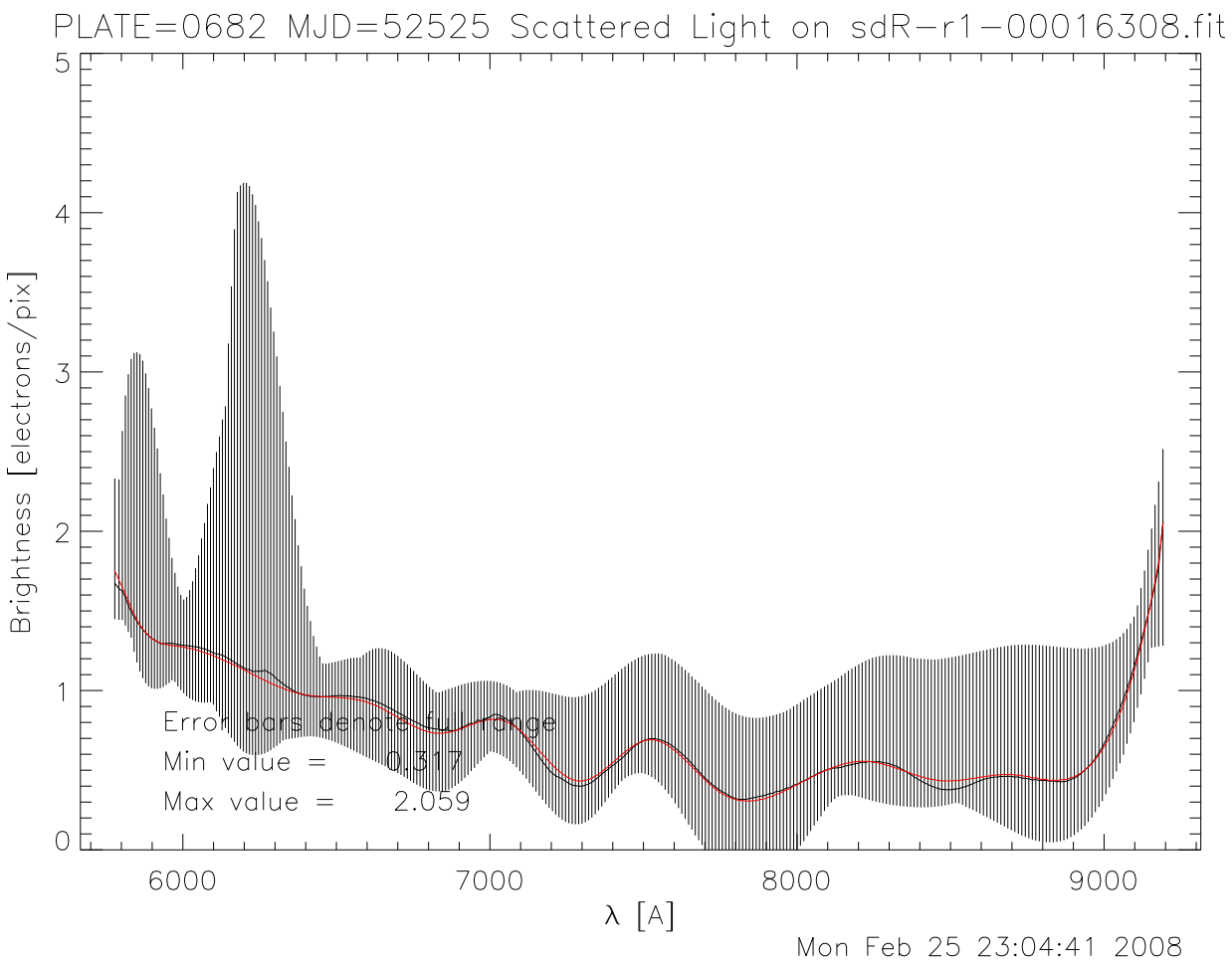

PLATE=0682 MJD=52525 sdR-r1-00016307.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.67 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass


PLATE=0682 MJD=52525 Fiber−Flats for sdR−r1−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.665
Max value = 1.254
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 23:01:31 2008


PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r1-00016308.fi
6.55
5.09
5.09
3.64
2.18
2.18
Y [pix]
X [pix]
0
500
1000
1500
2000


PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r1-00016308.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.422
Max value = 6.453
Mon Feb 25 23:02:11 2008


PLATE=0682 MJD=52525 Scattered Light on sdR−r1−00016308.fit
0.64
0.64
0.64
0.64
0.64
0.64
1.73
Y [pix]
X [pix]
0
500
1000
1500
2000


PLATE=0682 MJD=52525 Scattered Light on sdR-r1-00016308.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.317
Max value = 2.059
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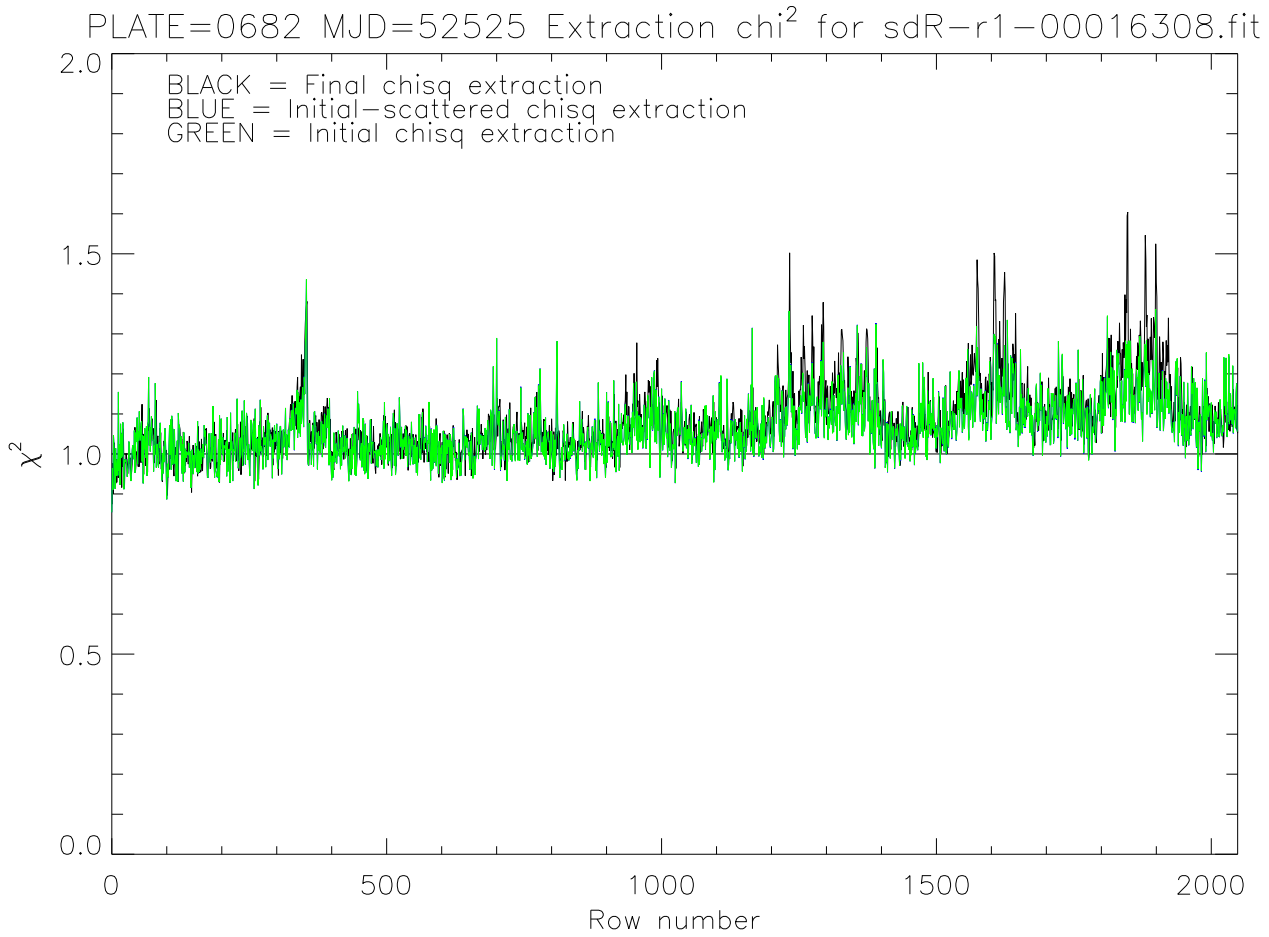
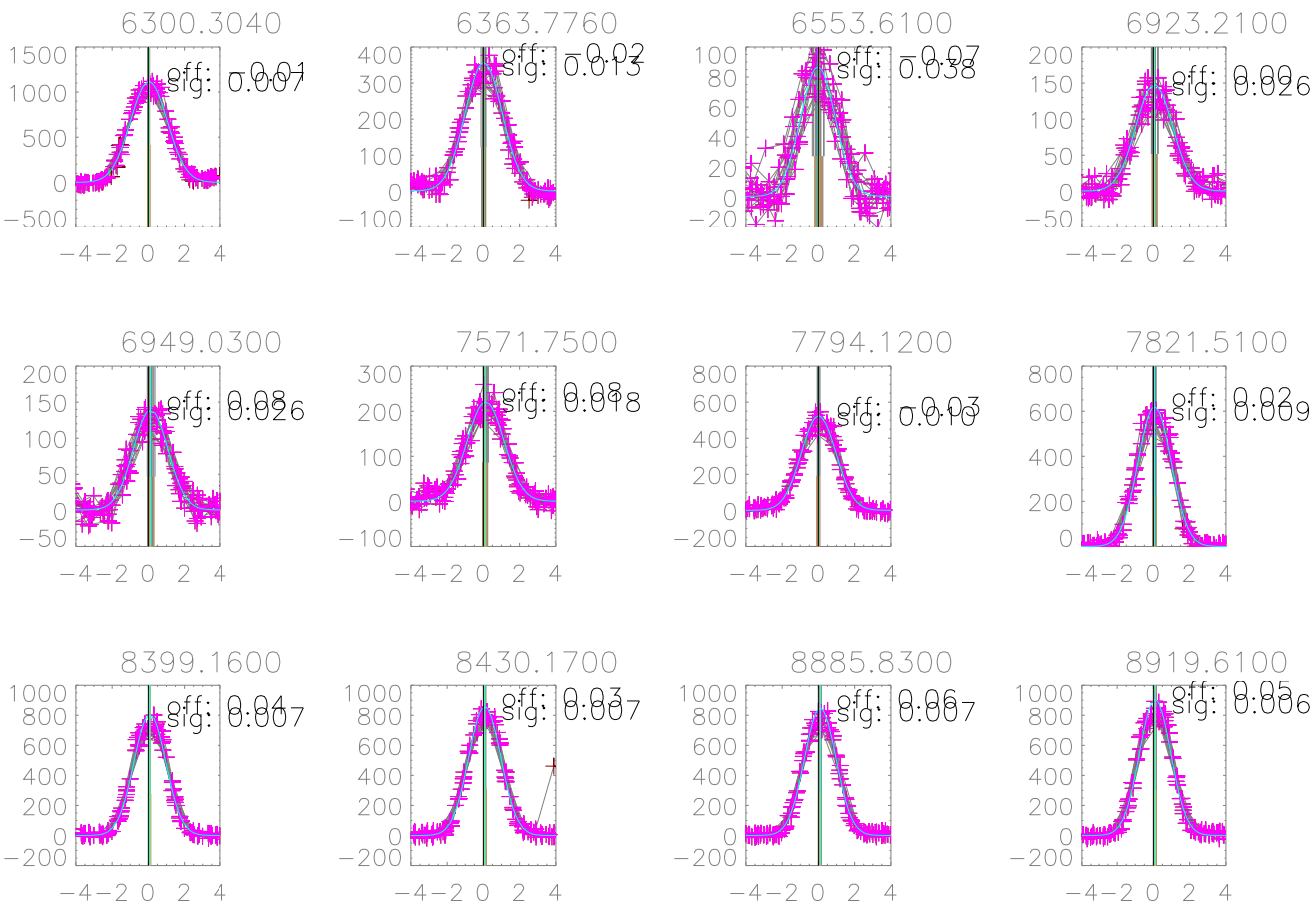
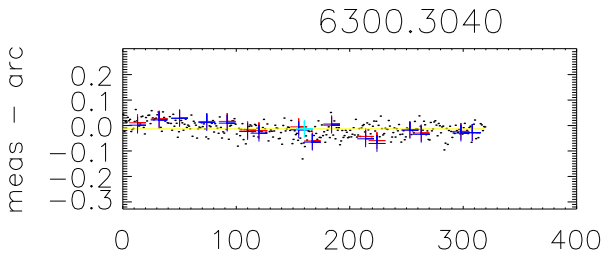
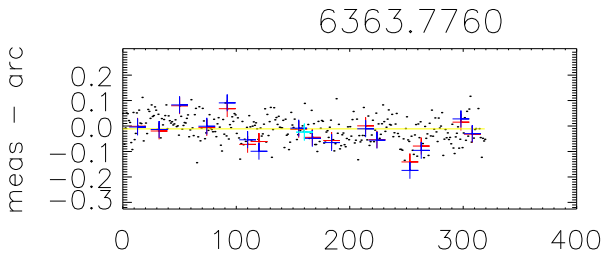
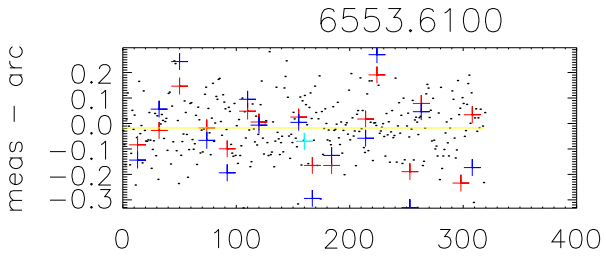
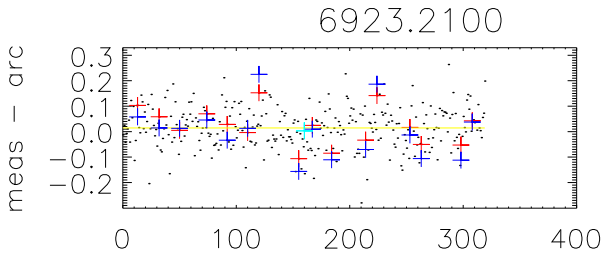

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR−r1−00016308.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

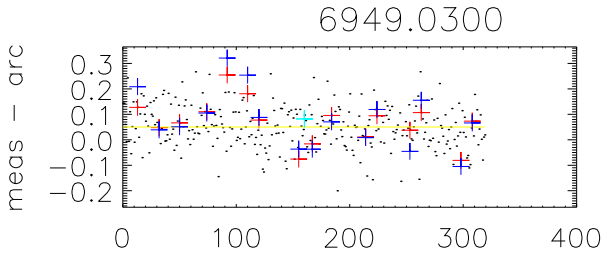

6300.3040
off: -0.01
sig: 0.007
6363.7760
off: -0.02
sig: 0.013
6553.6100
off: -0.07
sig: 0.038
6923.2100
off: 0.00
sig: 0.026
6949.0300
off: 0.08
sig: 0.026
7571.7500
off: 0.08
sig: 0.018
7794.1200
off: -0.03
sig: 0.010
7821.5100
off: 0.02
sig: 0.009
8399.1600
off: 0.04
sig: 0.007
8430.1700
off: 0.03
sig: 0.007
8885.8300
off: 0.06
sig: 0.007
8919.6100
off: 0.05
sig: 0.006

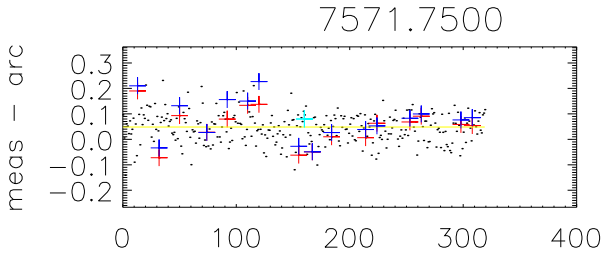

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

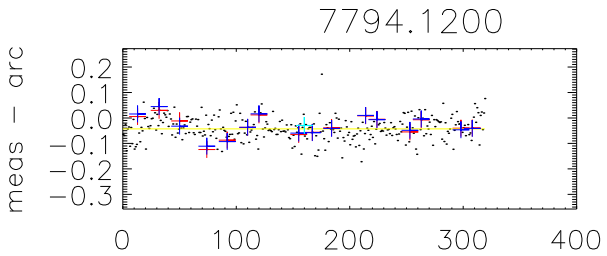

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

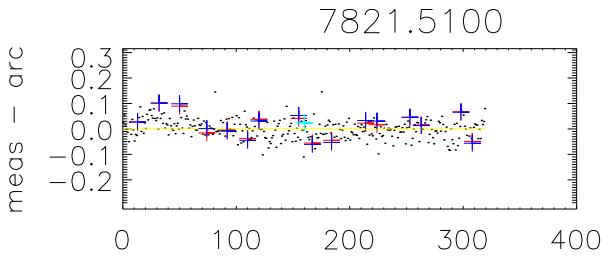

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

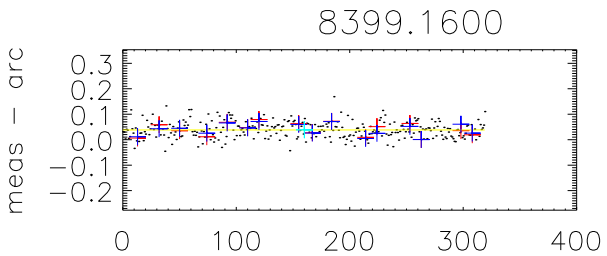

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

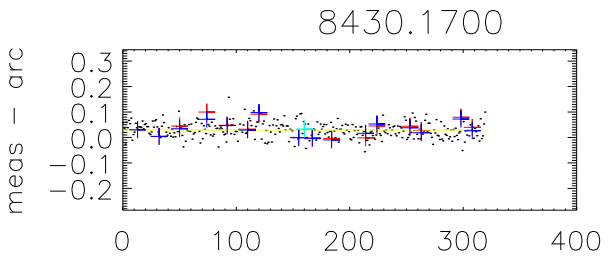

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

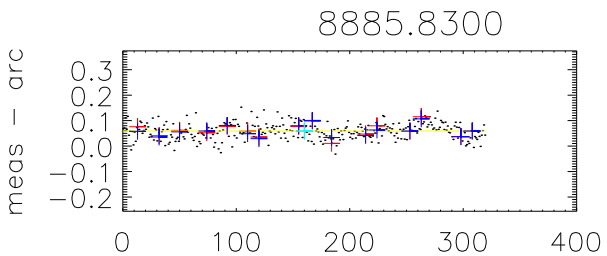

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

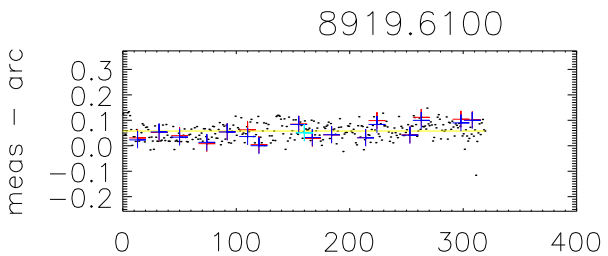

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

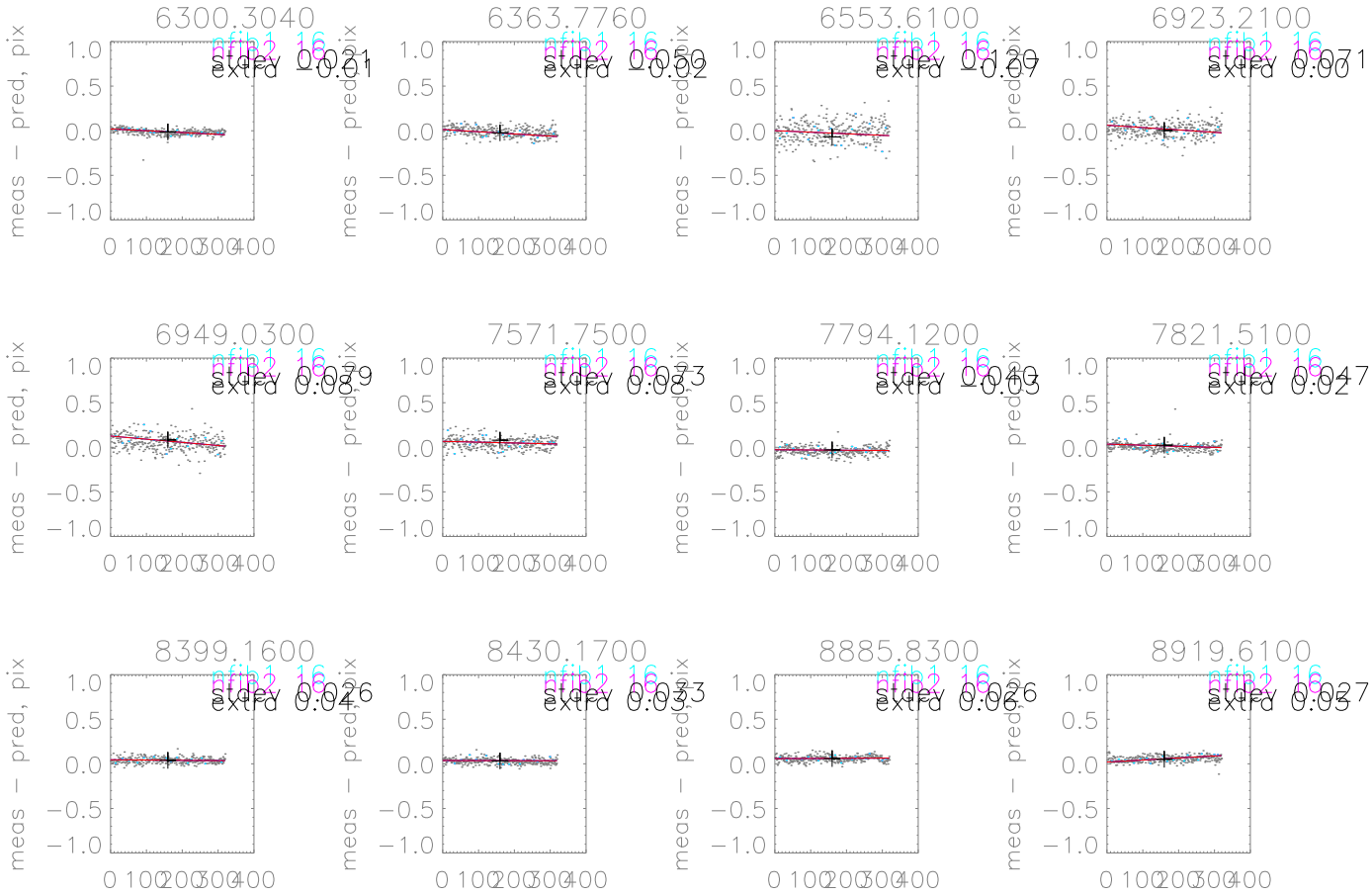

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

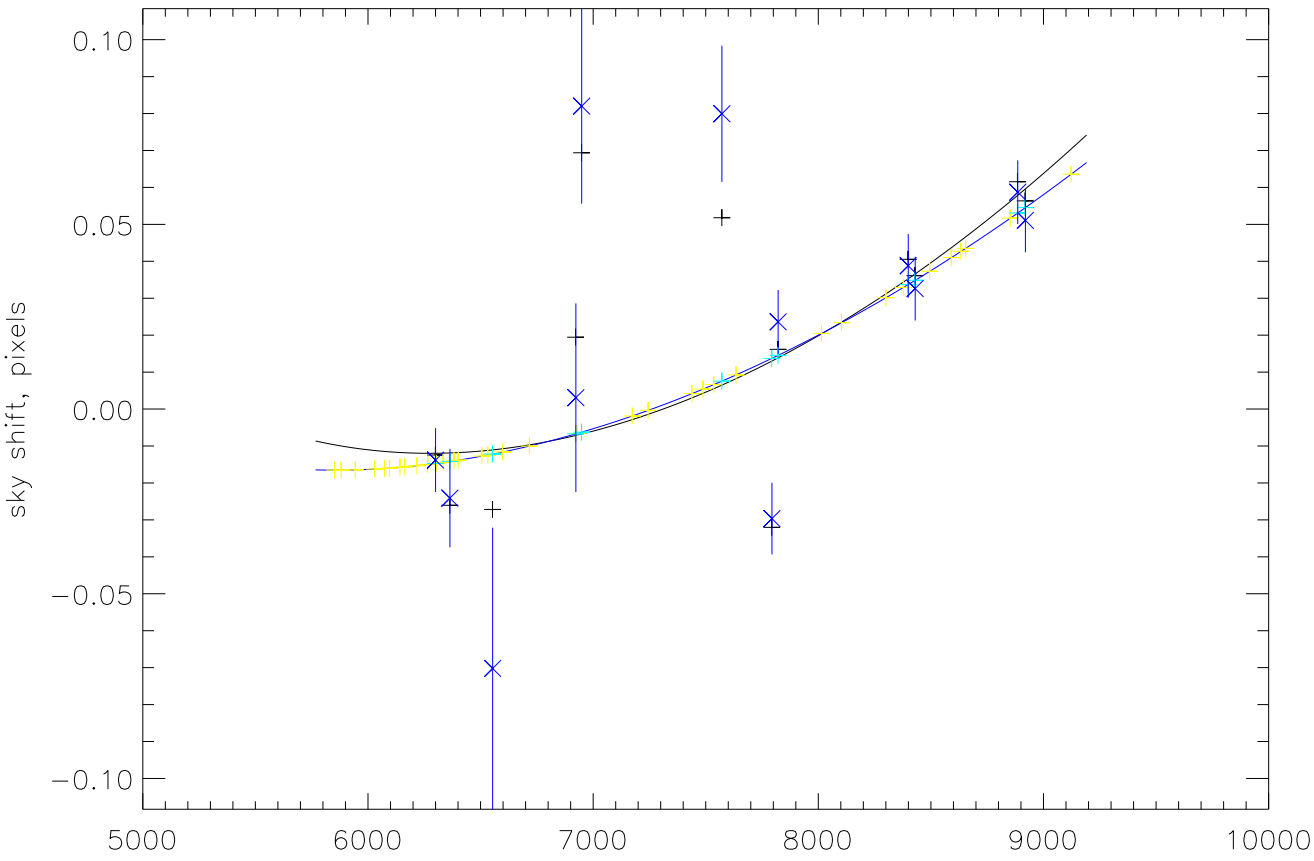

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

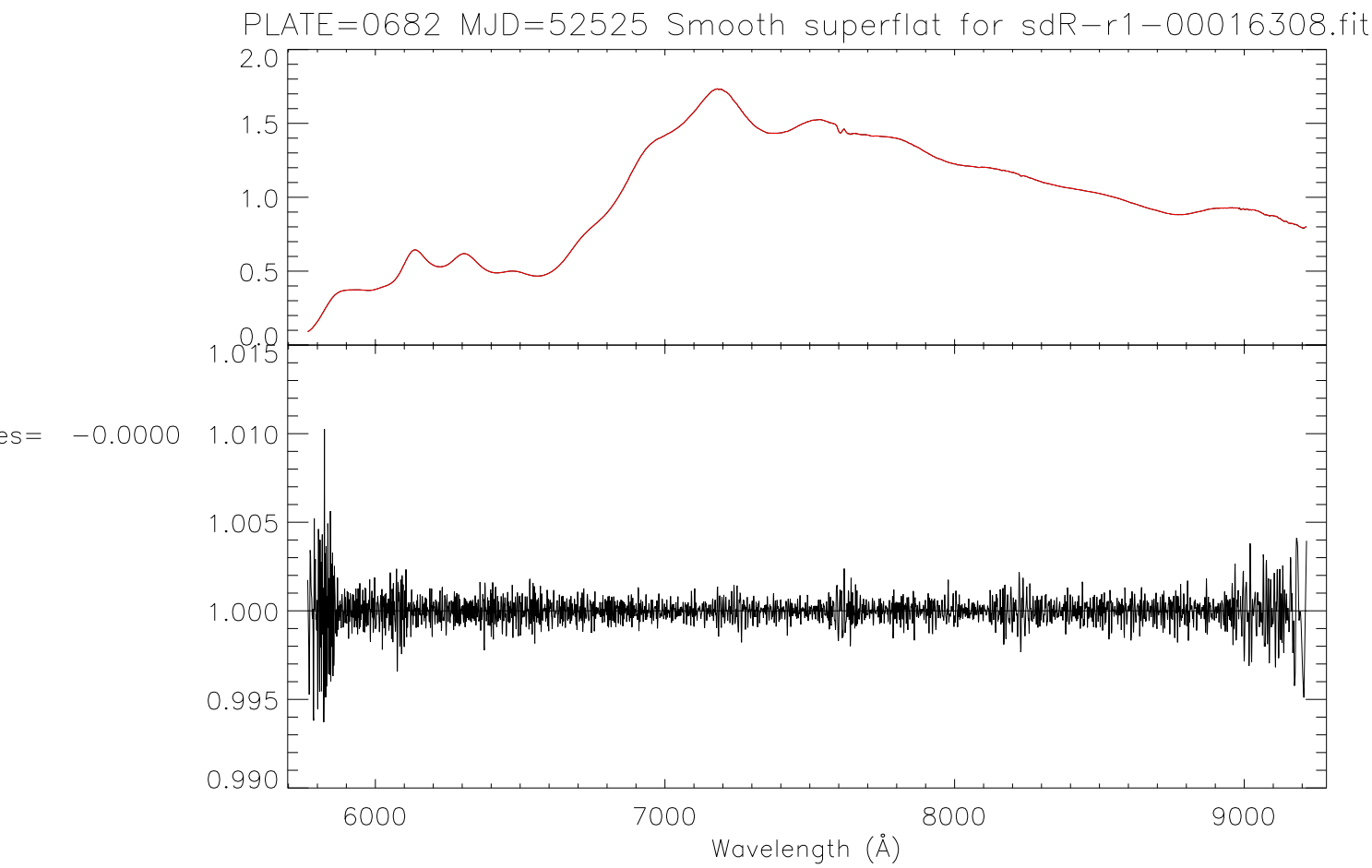

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

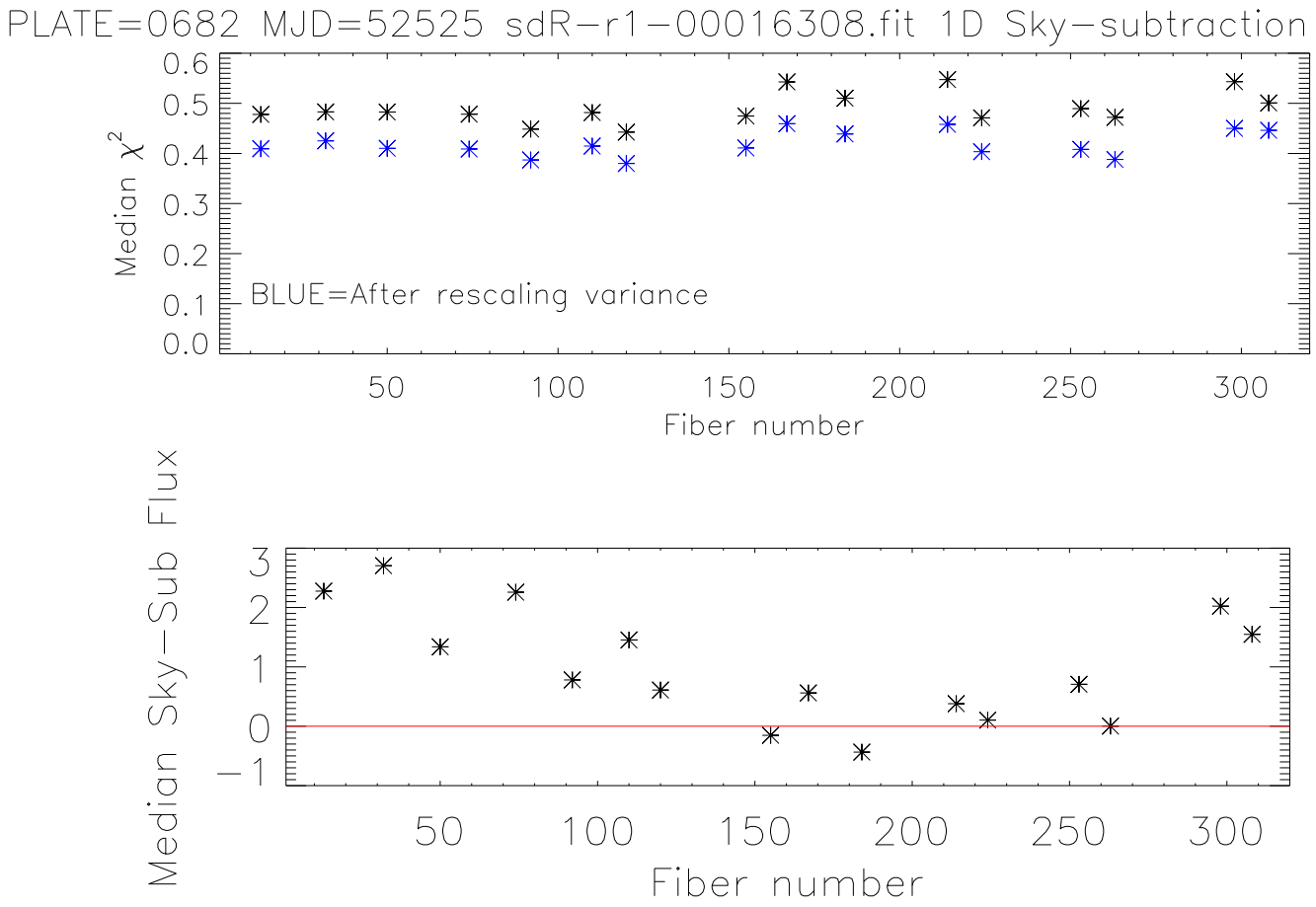

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

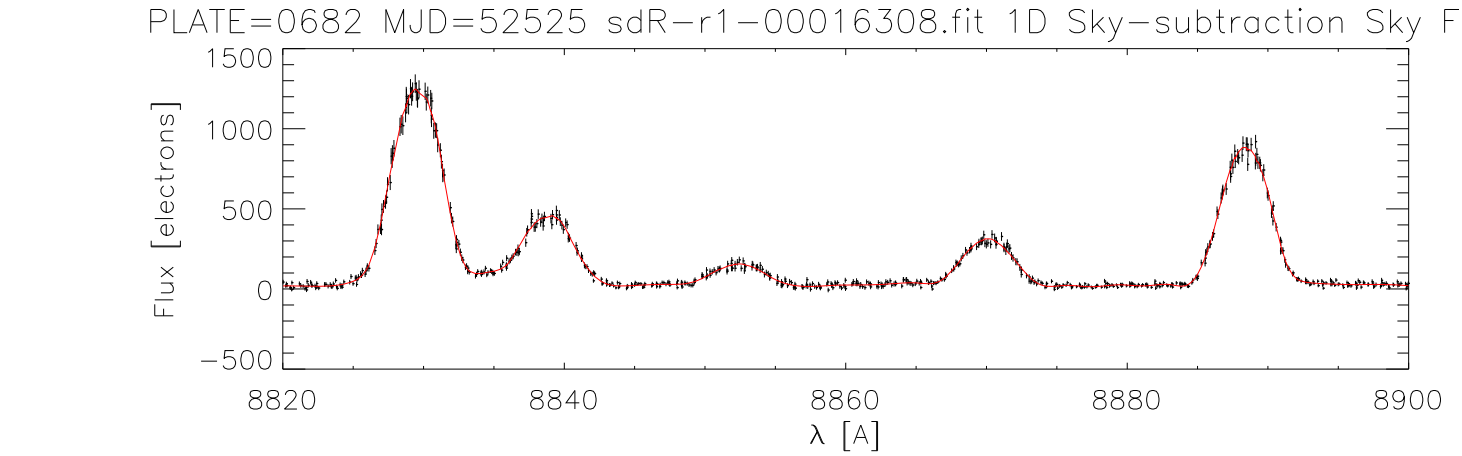

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

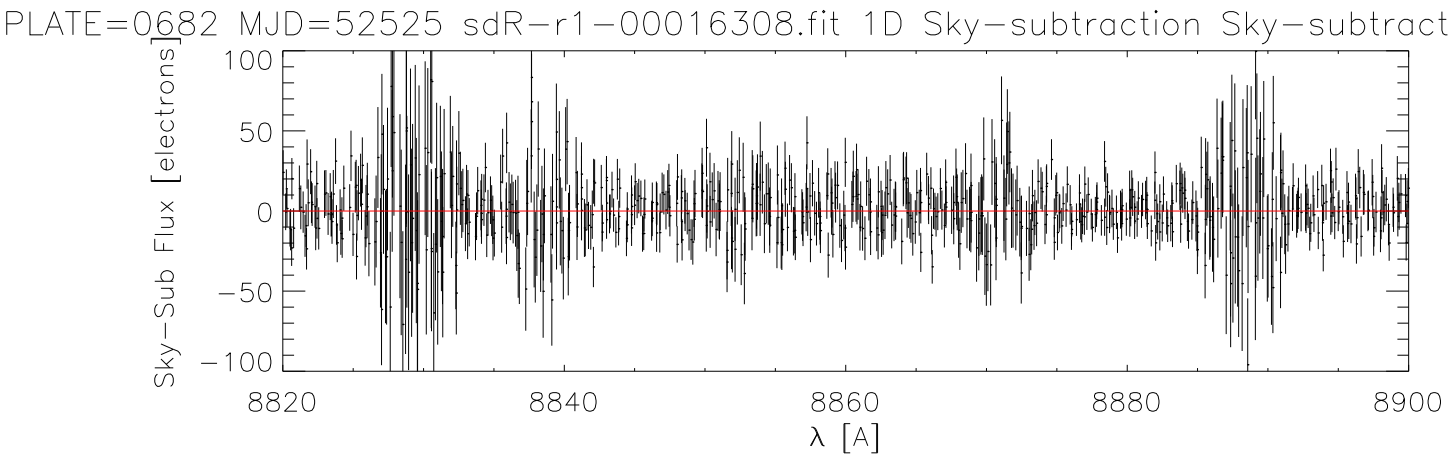

6300.3040
stdev 0.021
extra −0.01
6363.7760
stdev 0.050
extra −0.02
6553.6100
stdev 0.120
extra −0.07
6923.2100
stdev 0.071
extra 0.00
6949.0300
stdev 0.079
extra 0.08
7571.7500
stdev 0.073
extra 0.08
7794.1200
stdev 0.040
extra −0.03
7821.5100
stdev 0.047
extra 0.02
8399.1600
stdev 0.026
extra 0.04
8430.1700
stdev 0.033
extra 0.03
8885.8300
stdev 0.026
extra 0.06
8919.6100
stdev 0.027
extra 0.03
meas − pred, pix
mfbx1 16
mfbx2 16

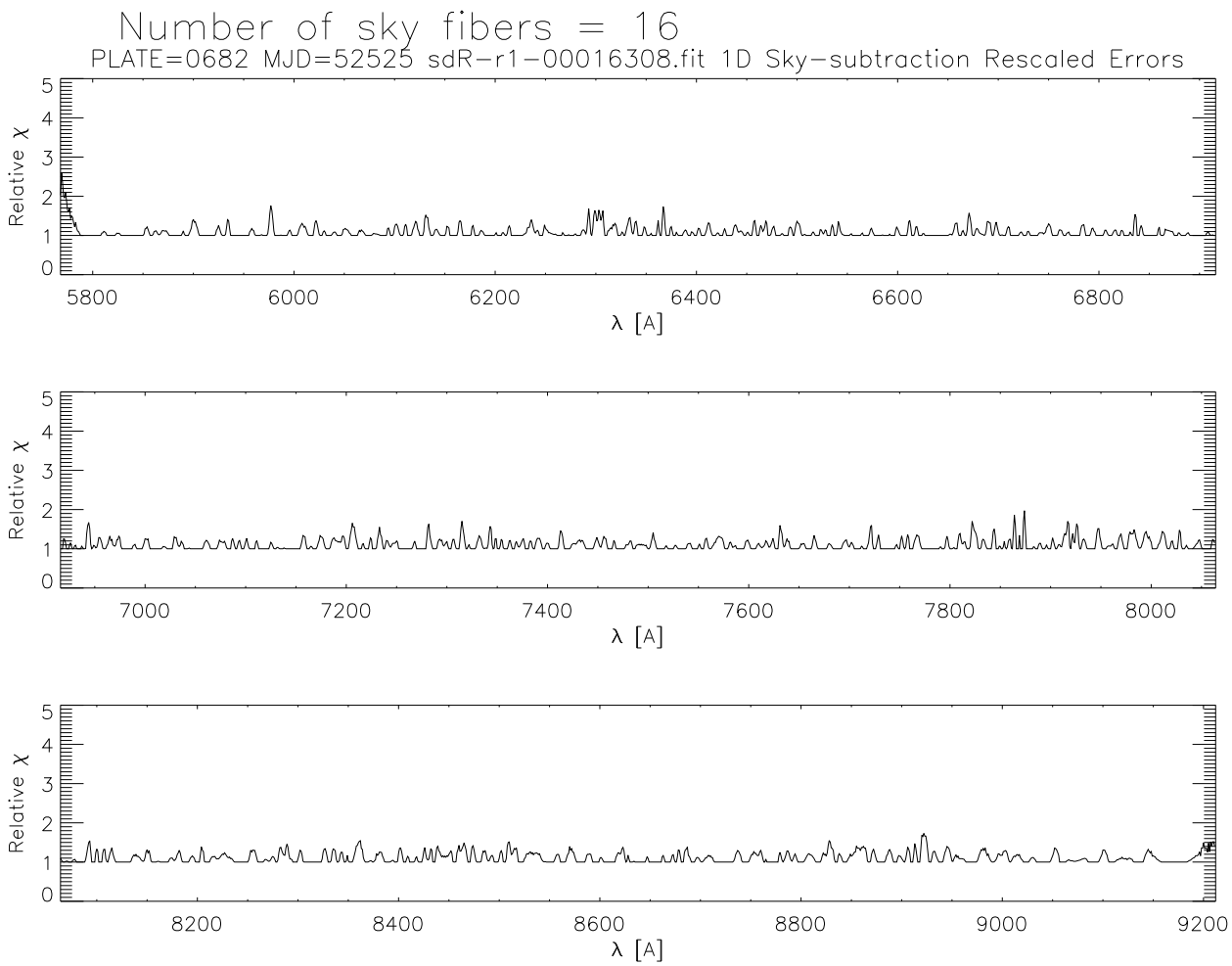

0.10
0.05
0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

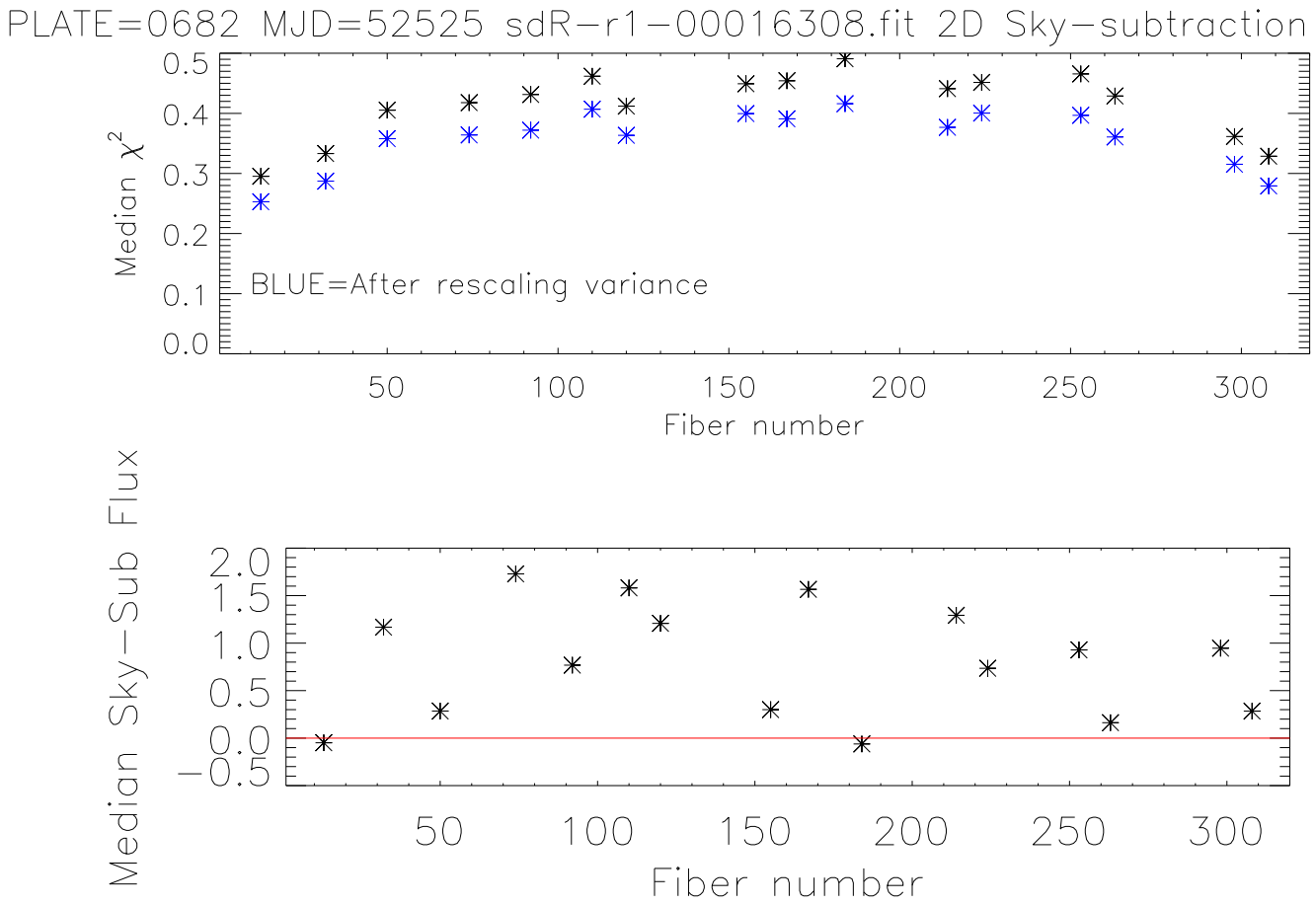

PLATE=0682 MJD=52525 Smooth superflat for sdR-r1-00016308.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

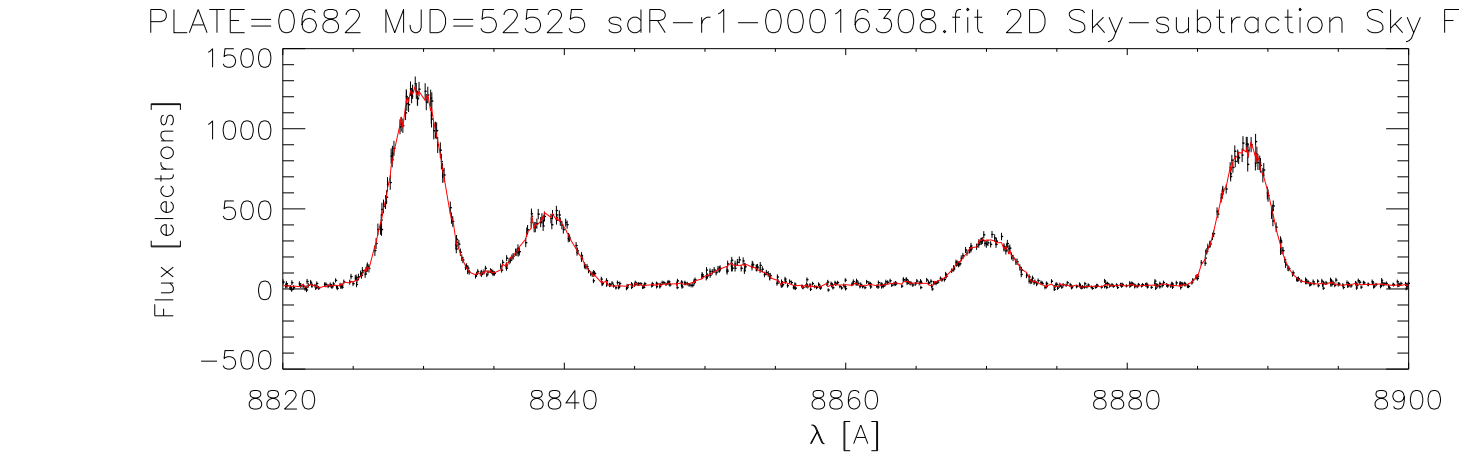

PLATE=0682 MJD=52525 sdR-r1-00016308.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

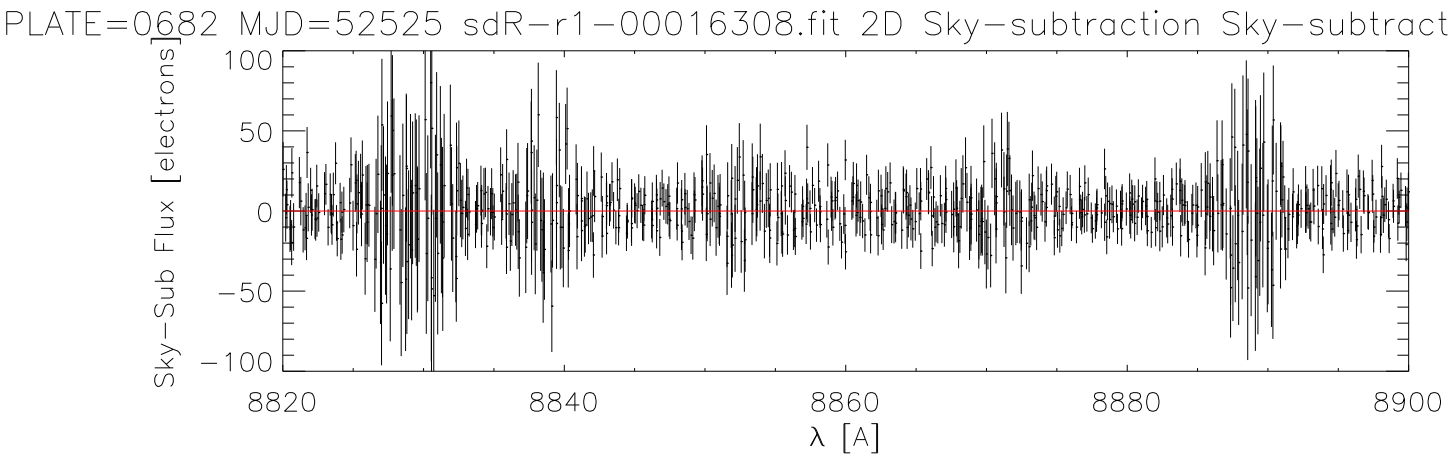

PLATE=0682 MJD=52525 sdR-r1-00016308.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

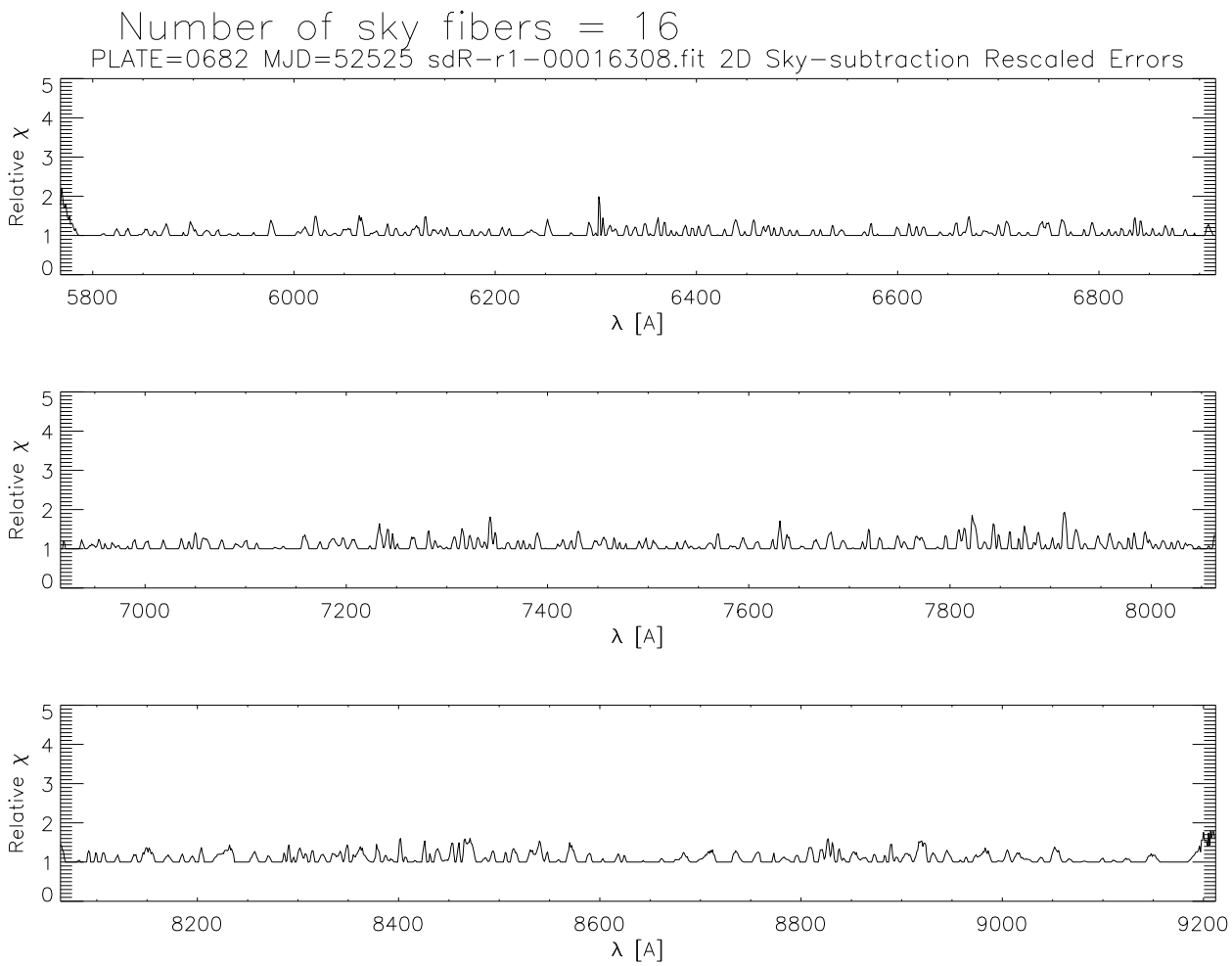

PLATE=0682 MJD=52525 sdR-r1-00016308.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

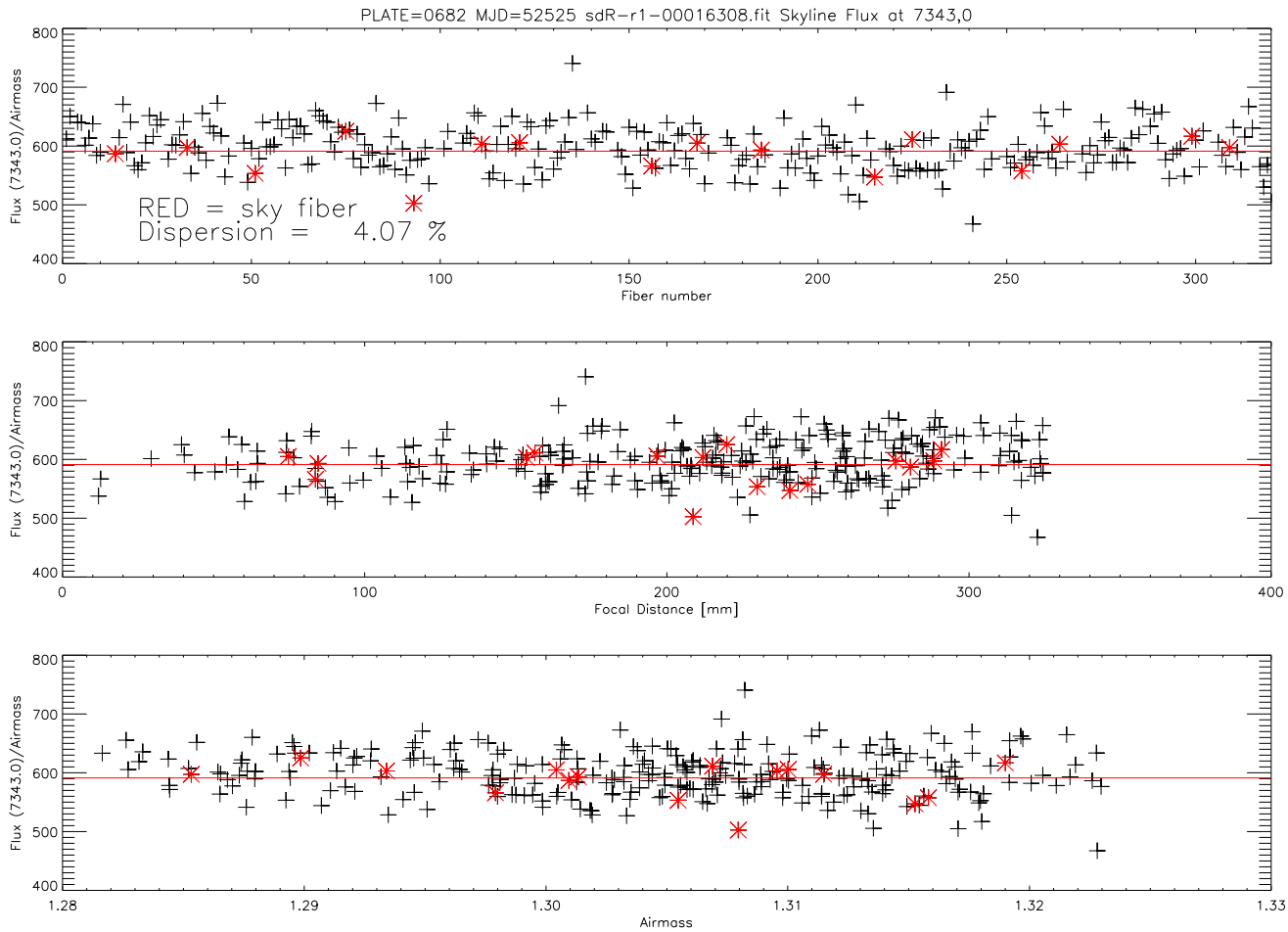

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r1-00016308.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

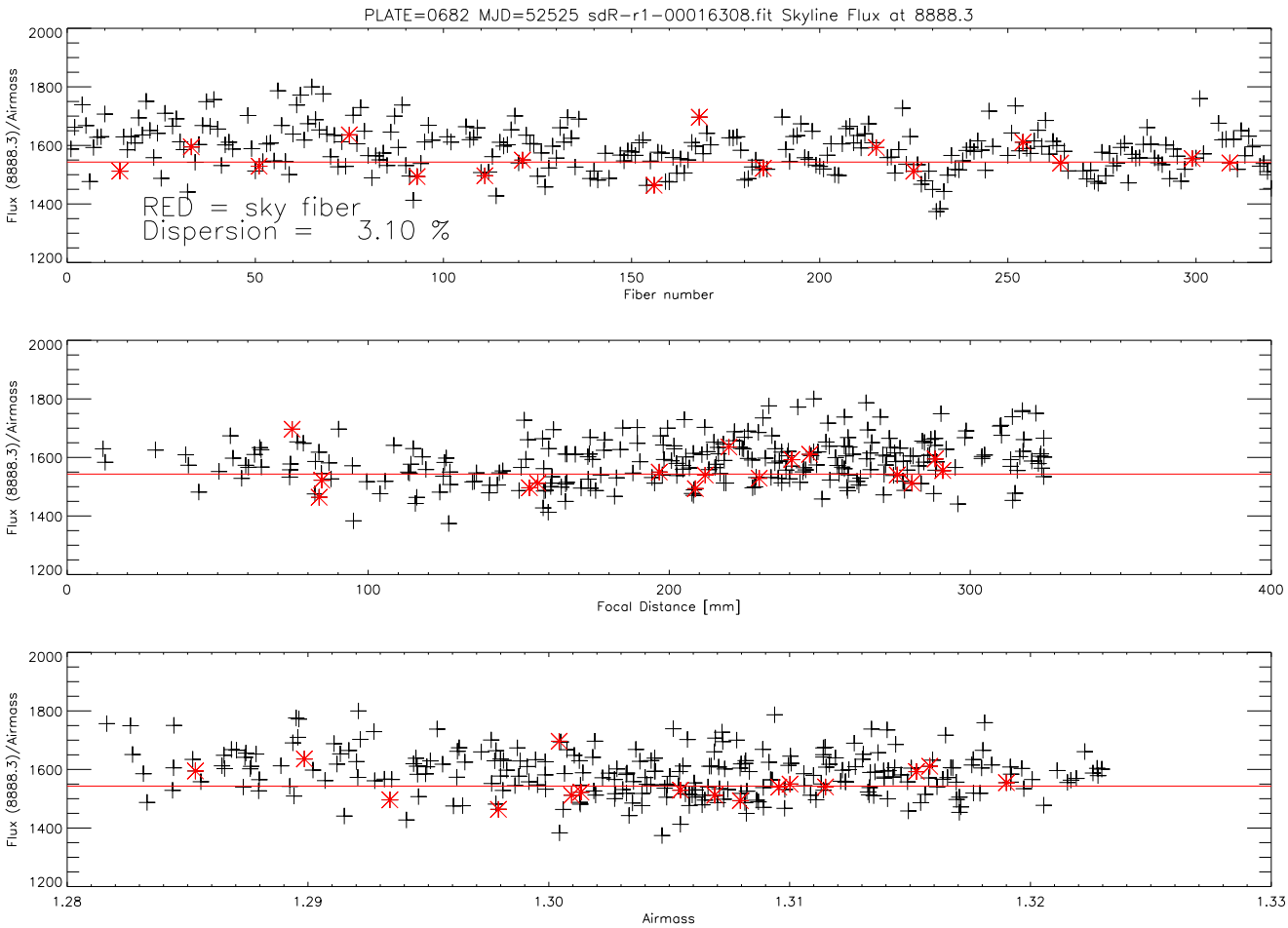

PLATE=0682 MJD=52525 sdR-r1-00016308.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

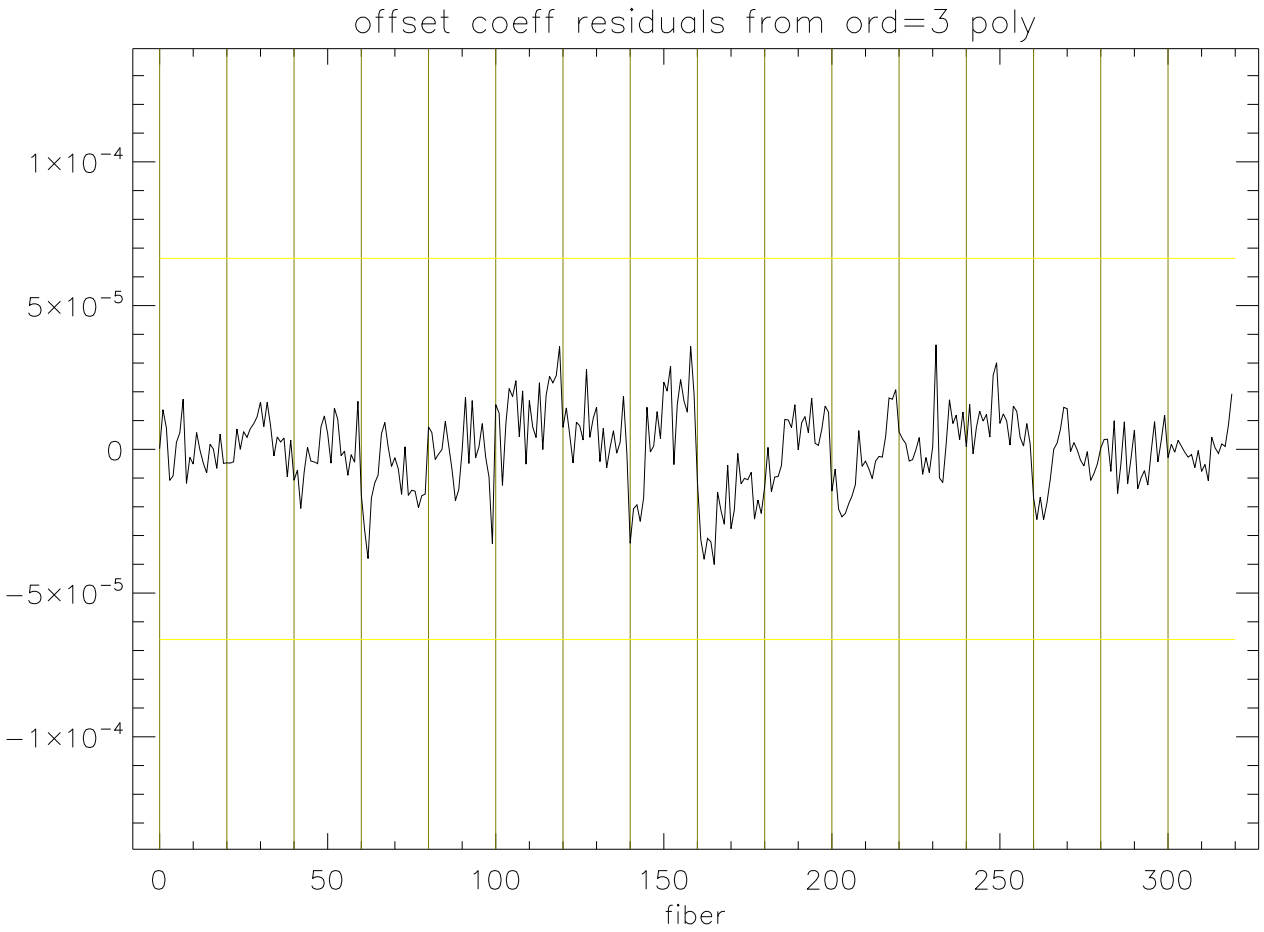

PLATE=0682 MJD=52525 sdR−r1−00016308.fit 2D Sky−subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

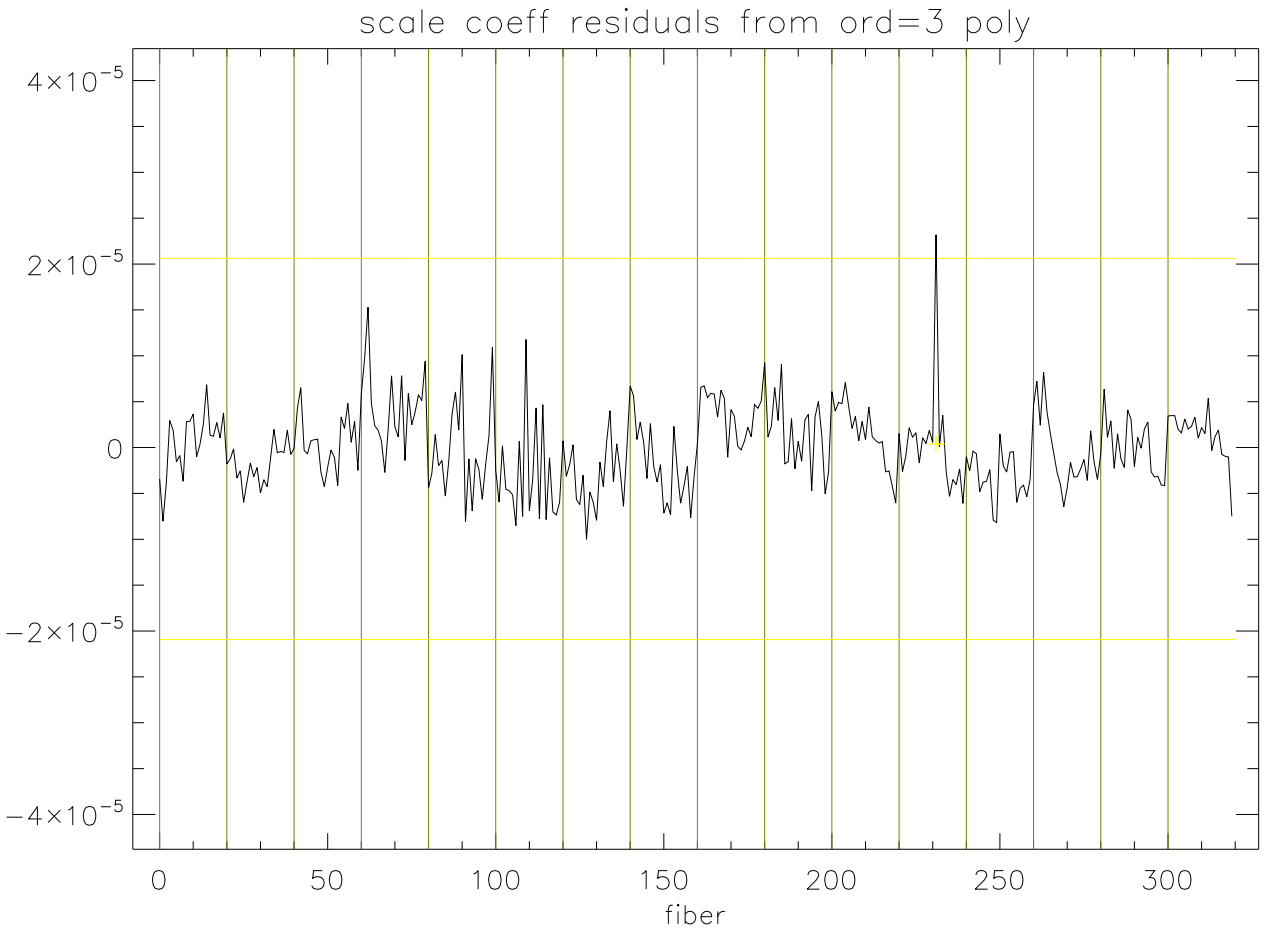

PLATE=0682 MJD=52525 sdR−r1−00016308.fit 2D Sky−subtraction Sky−subtracted Sky F
Sky−Sub Flux [electrons]
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

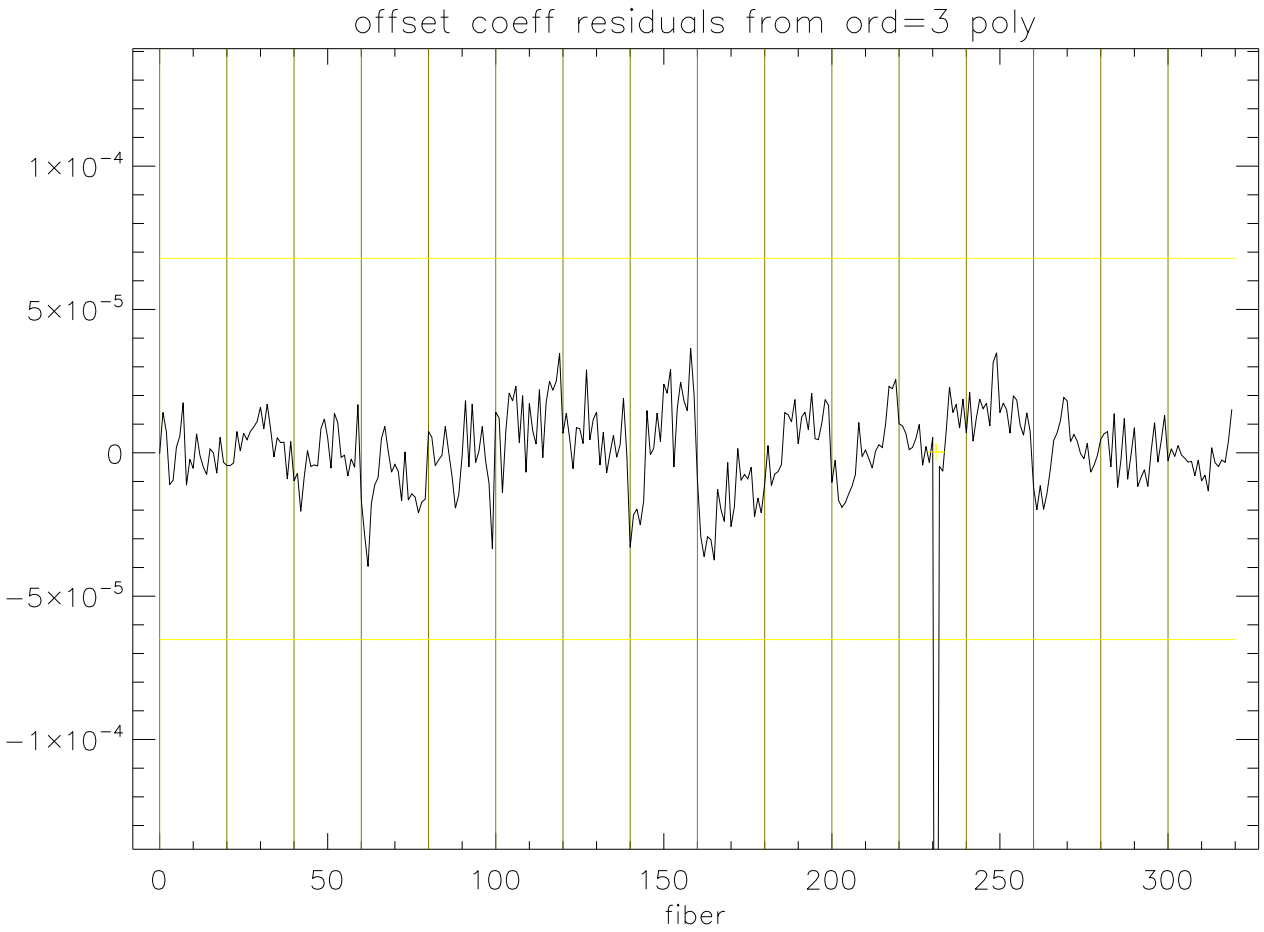

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r1-00016308.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

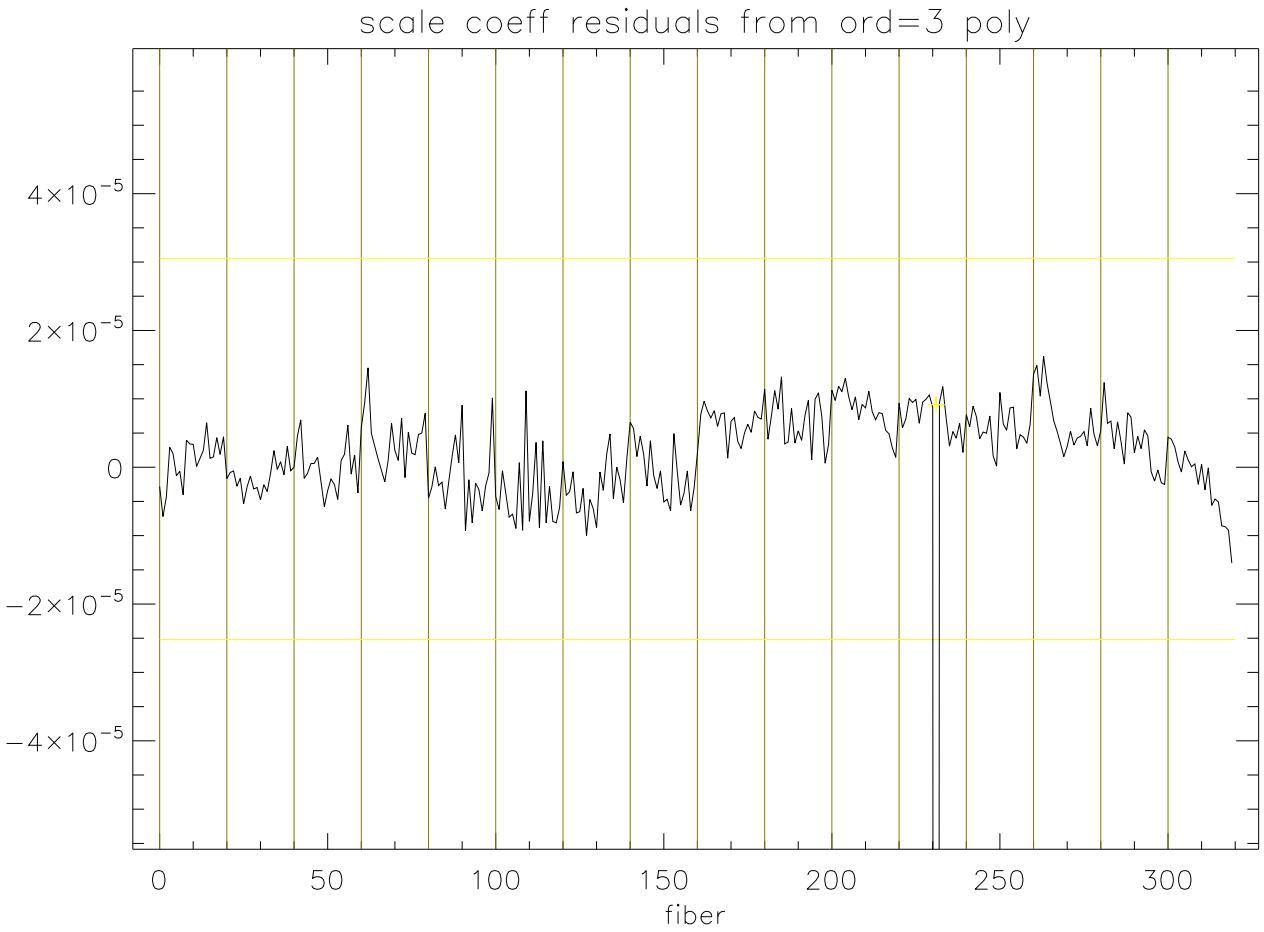

PLATE=0682 MJD=52525 sdR-r1-00016308.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.07 %
Fiber number
Focal Distance [mm]
Airmass

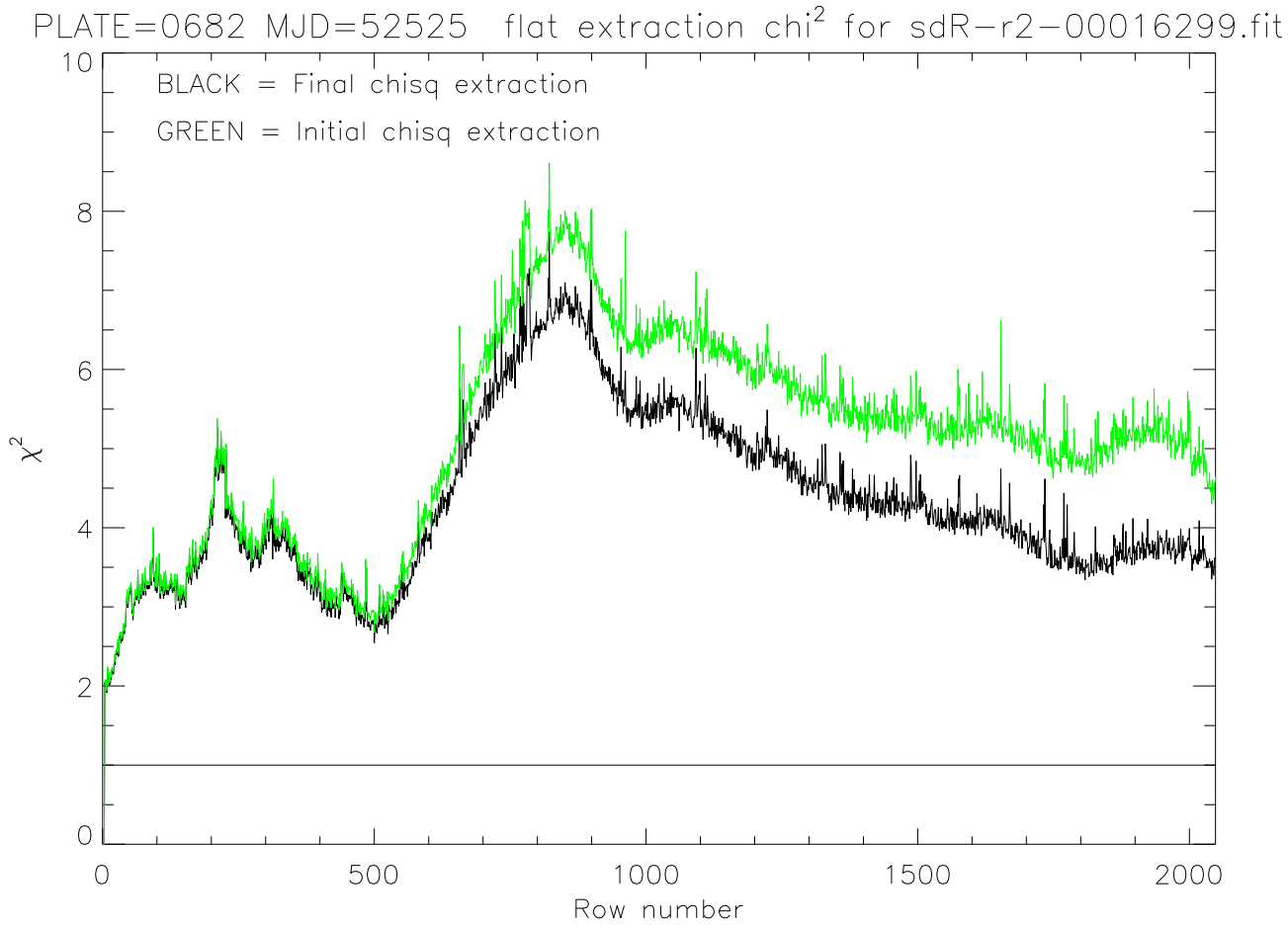

PLATE=0682 MJD=52525 sdR-r1-00016308.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.10 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

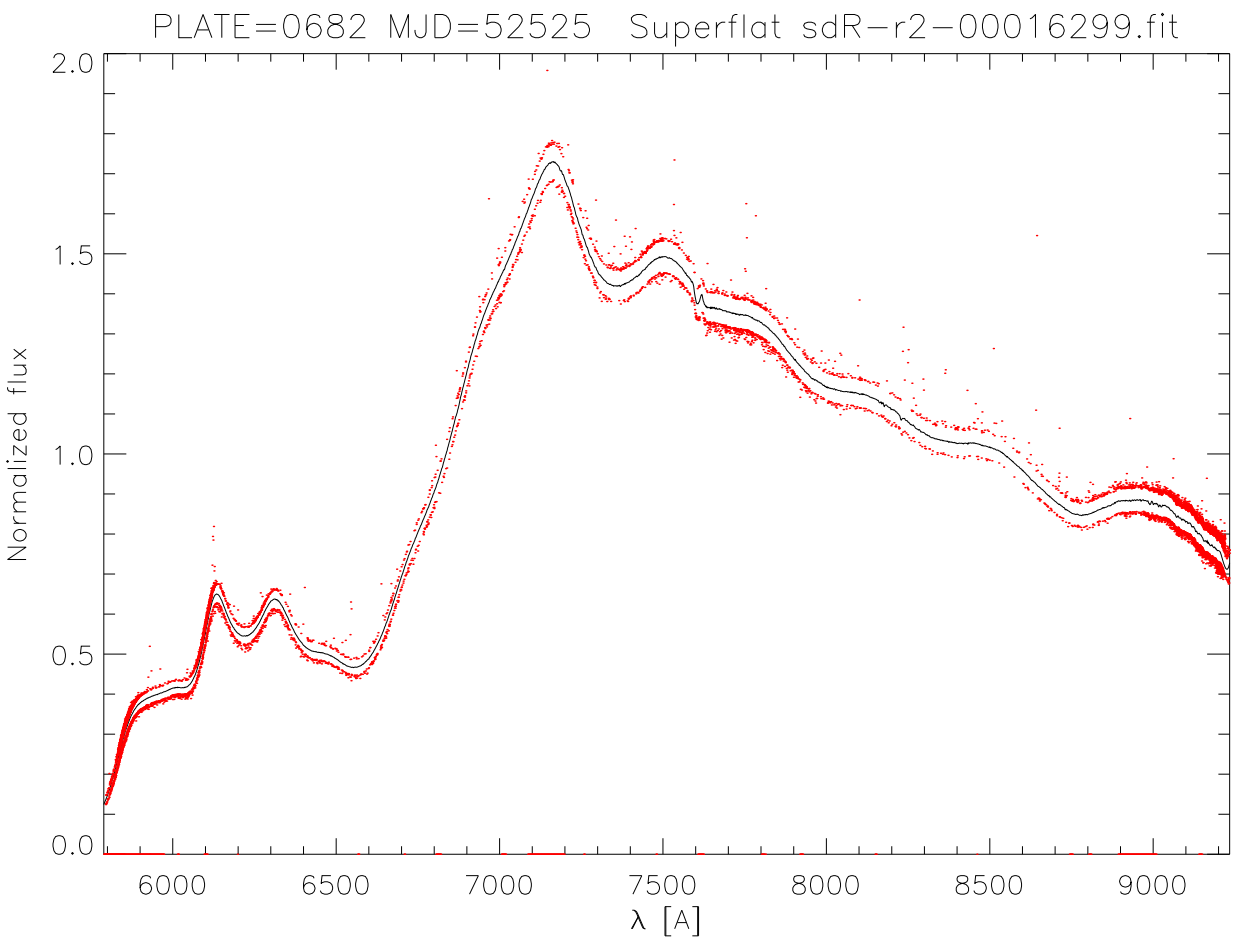

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

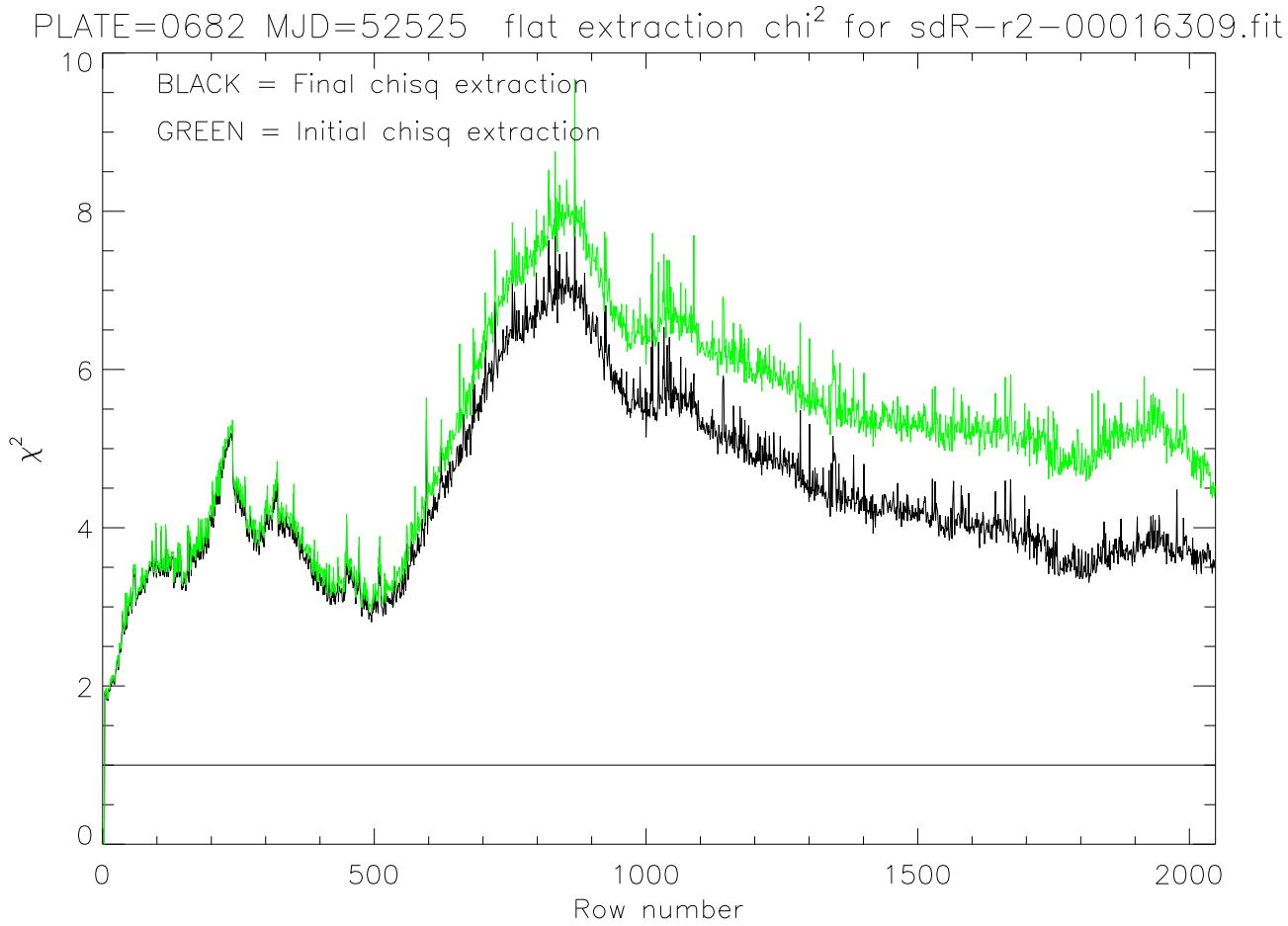

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

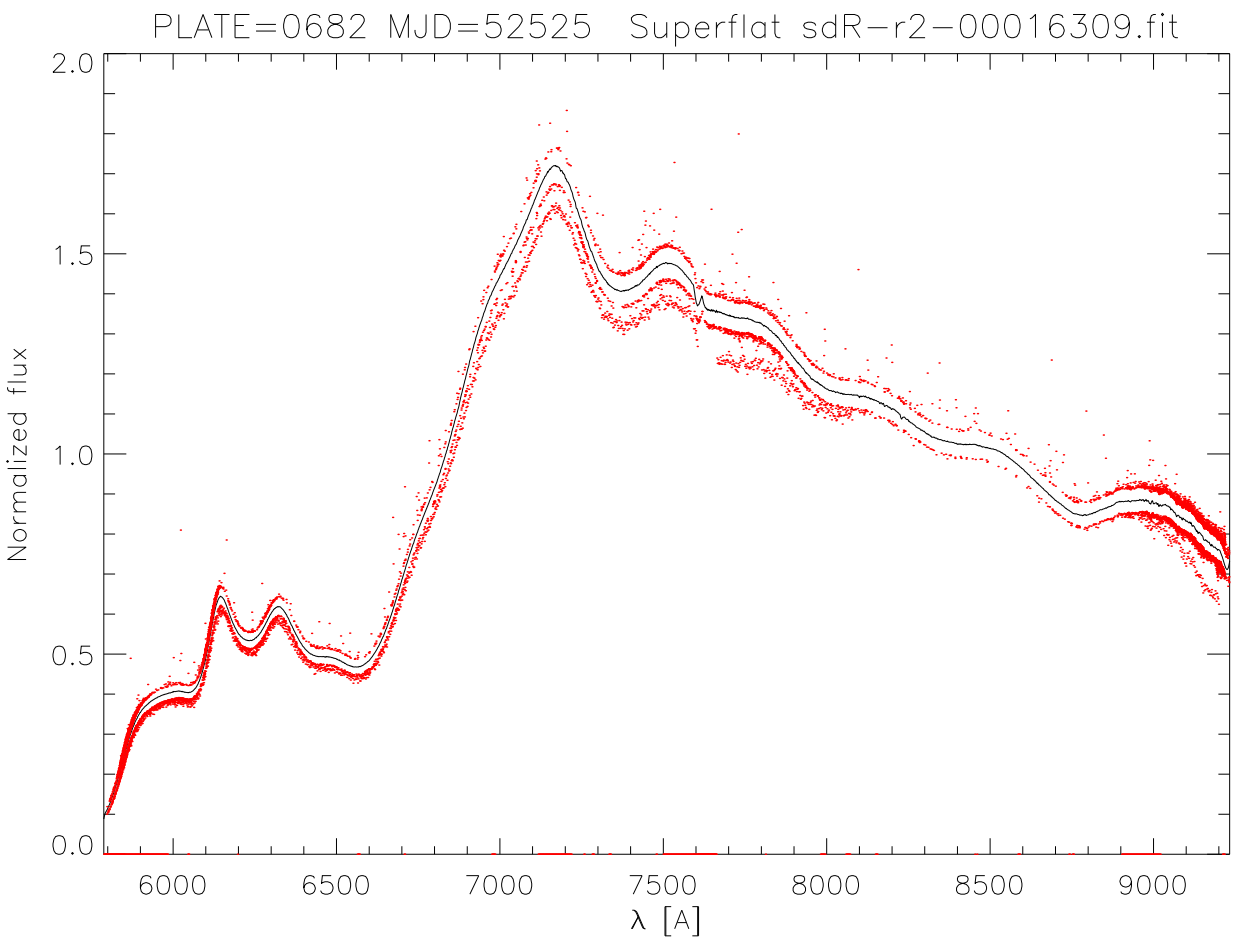

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

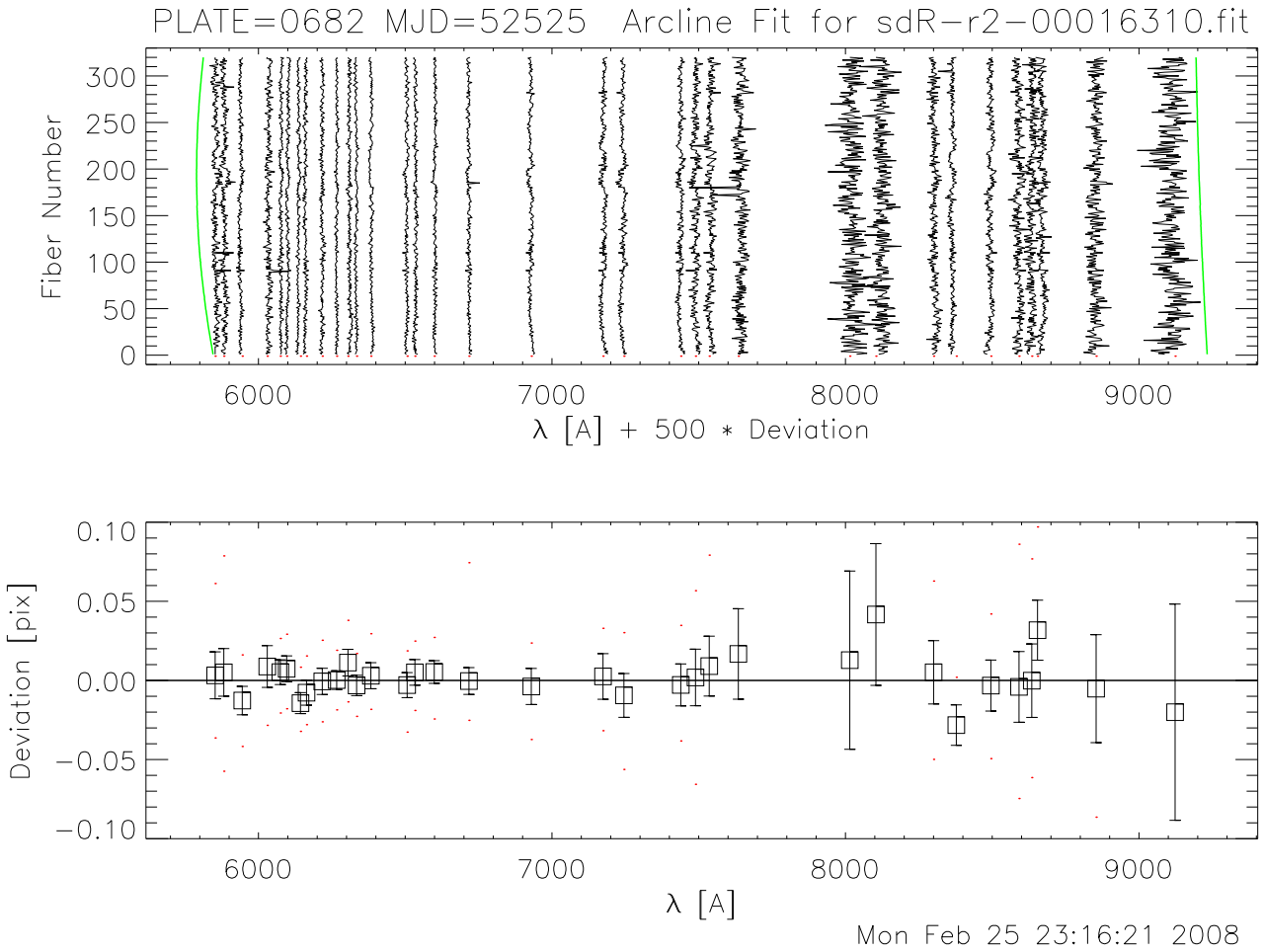

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

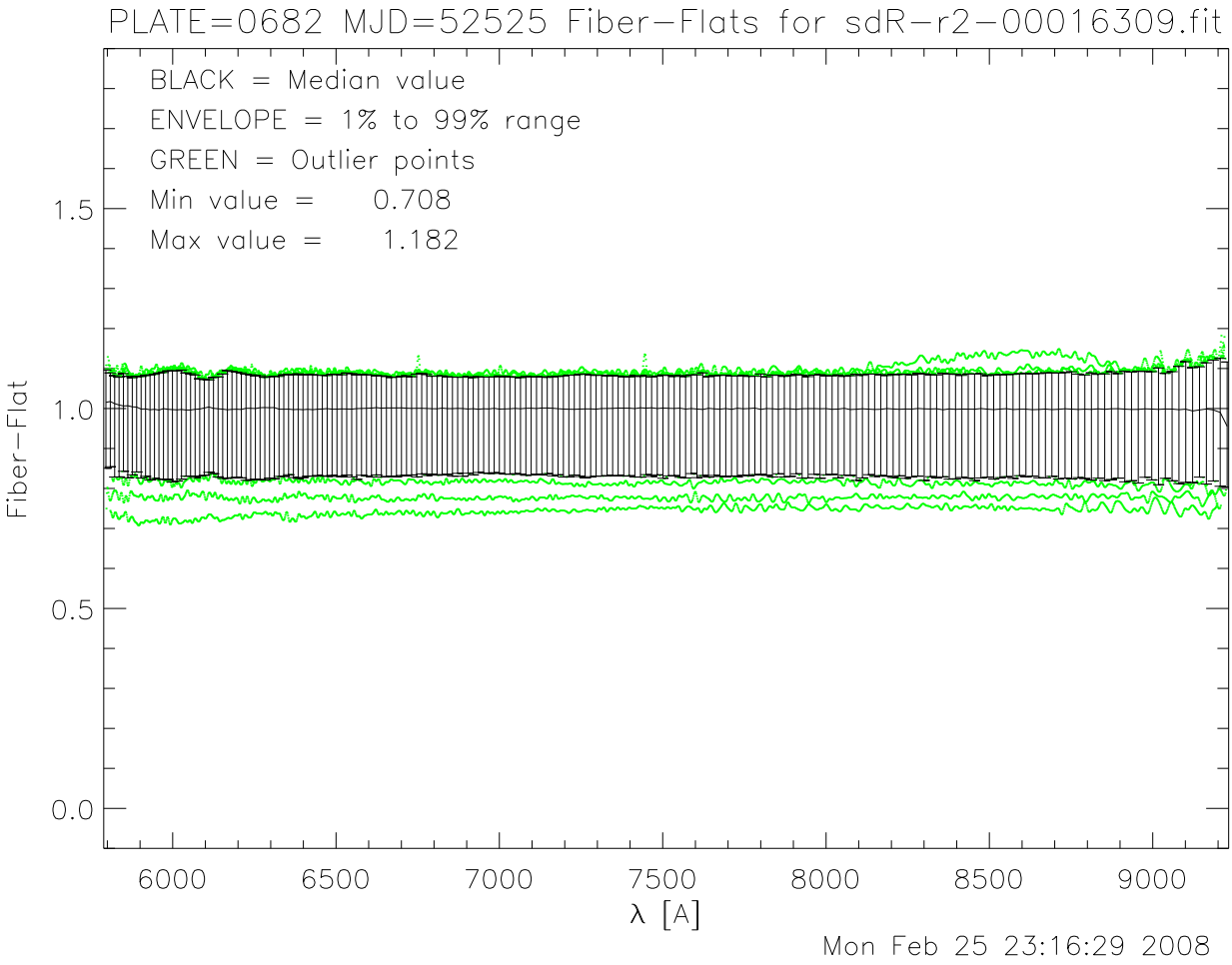

PLATE=0682 MJD=52525 flat extraction chi$^2$ for sdR−r2−00016299.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

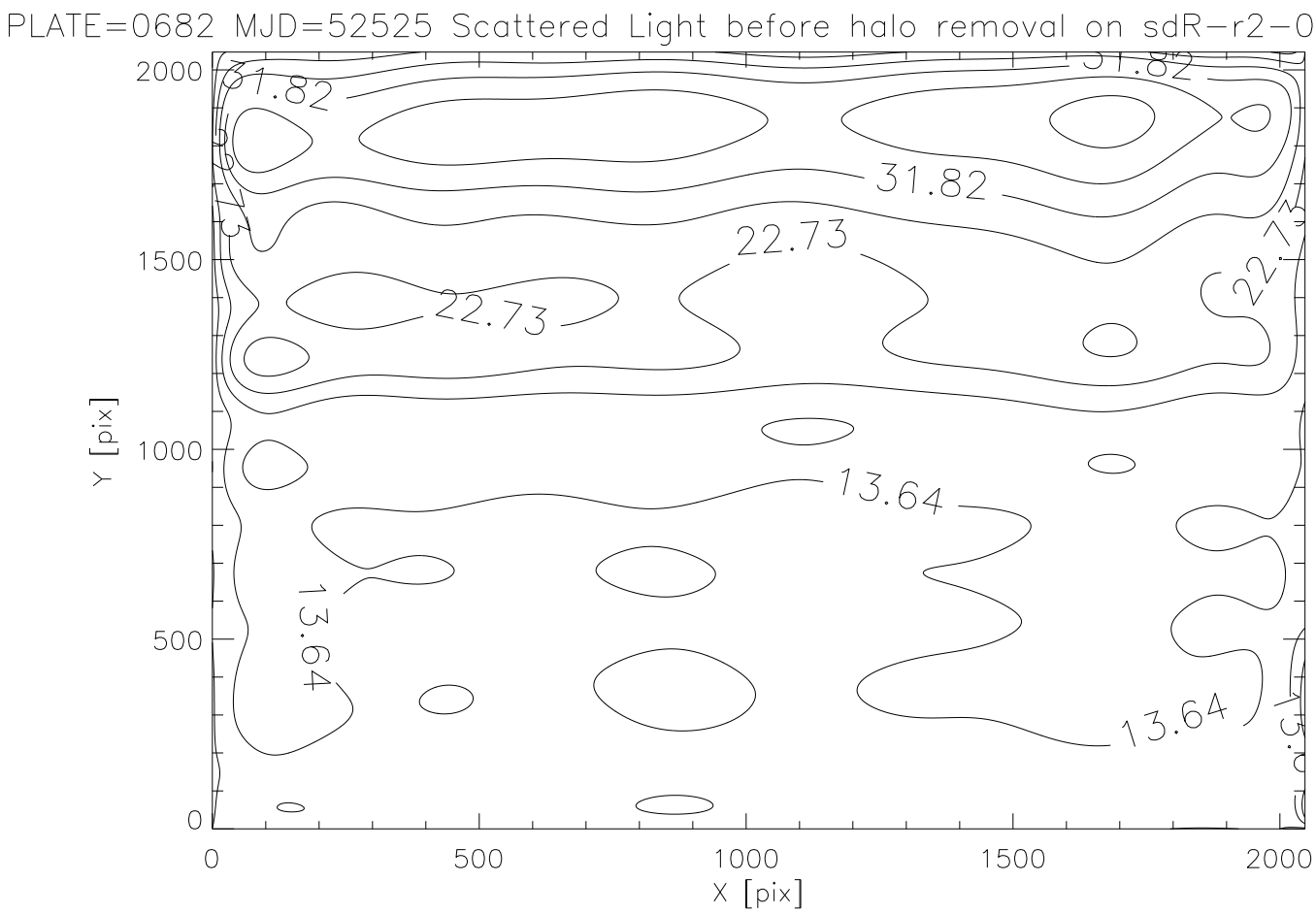

PLATE=0682 MJD=52525 Superflat sdR-r2-00016299.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

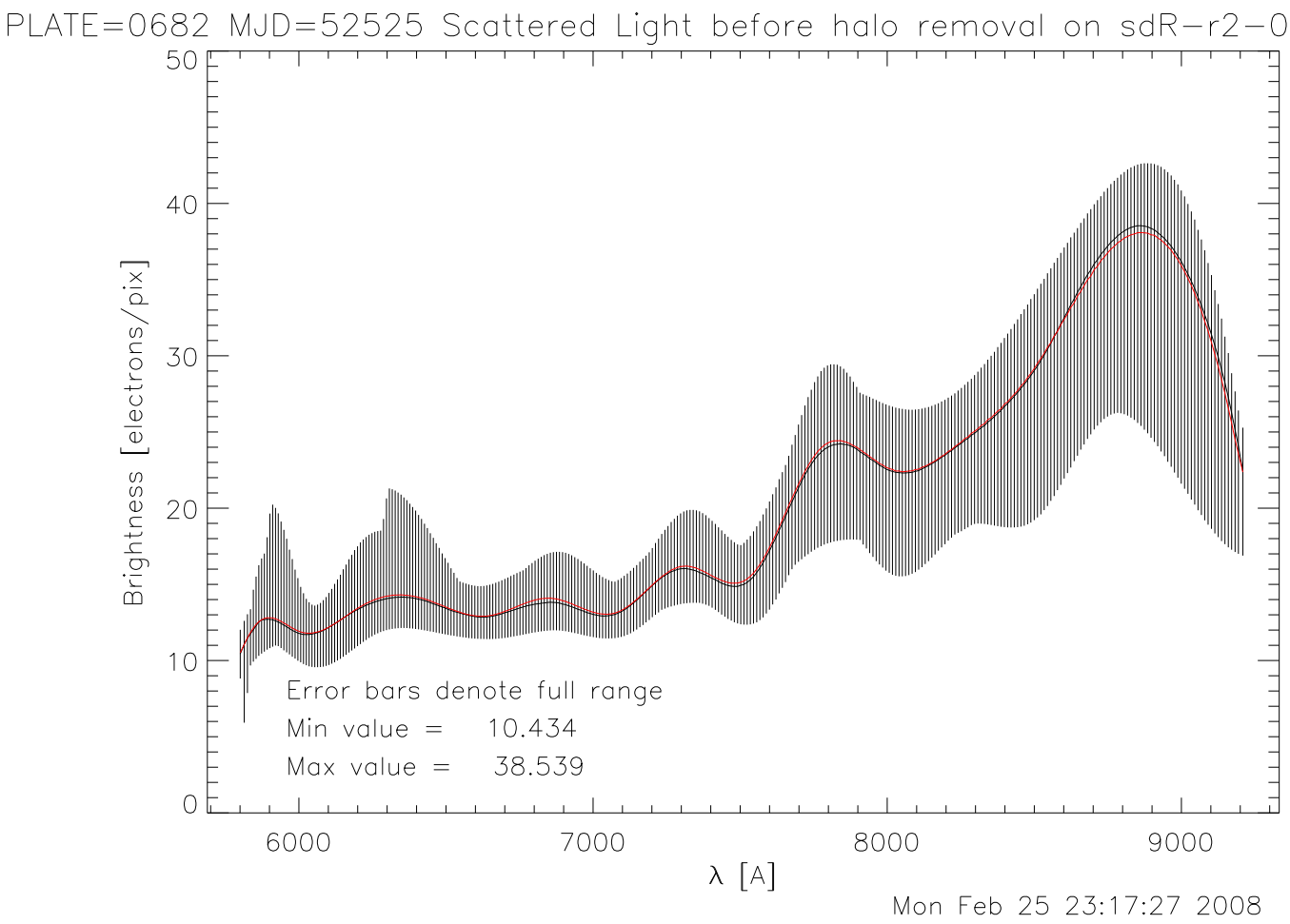

PLATE=0682 MJD=52525 flat extraction chi$^2$ for sdR−r2−00016309.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

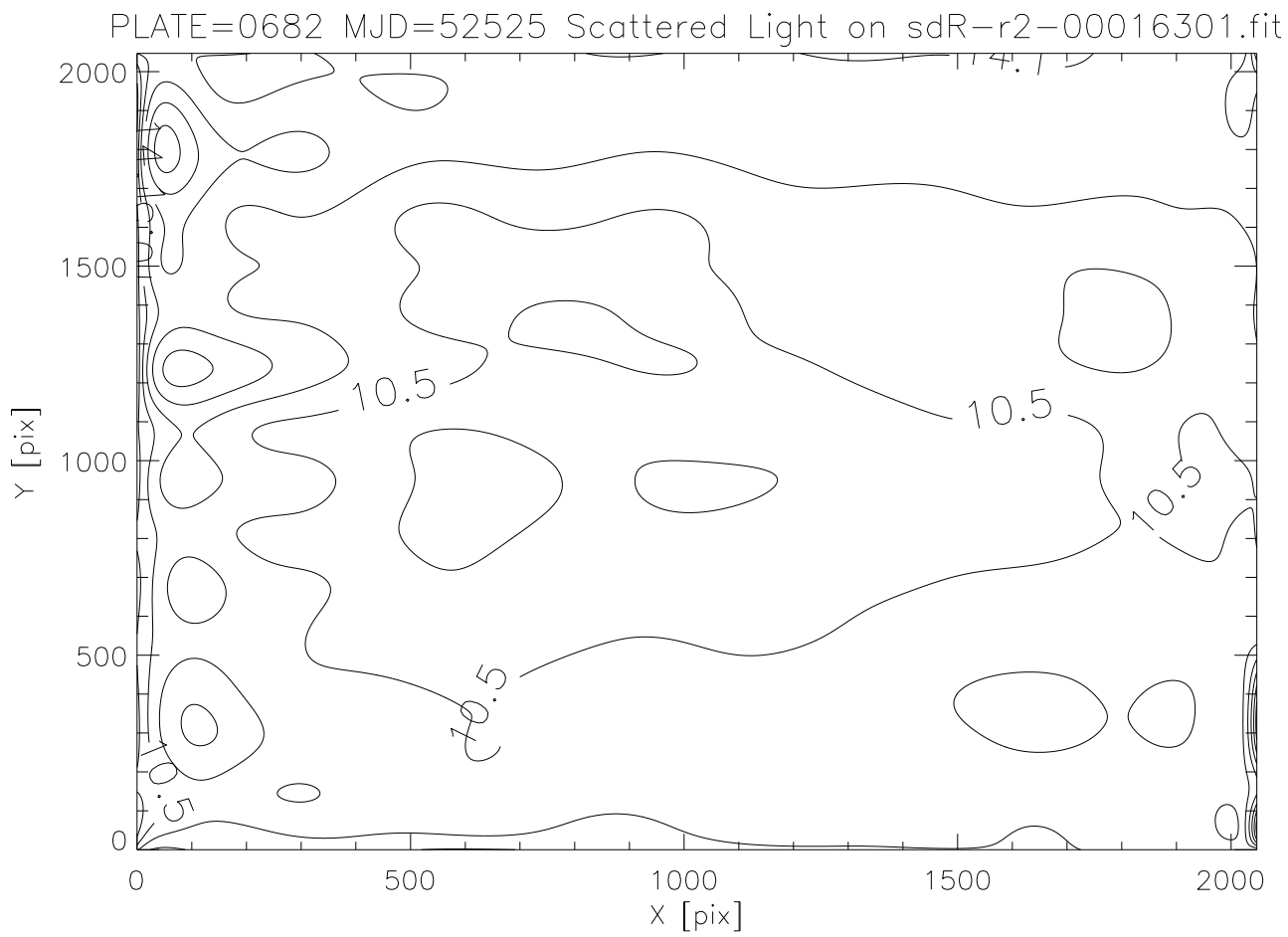

PLATE=0682 MJD=52525 Superflat sdR-r2-00016309.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

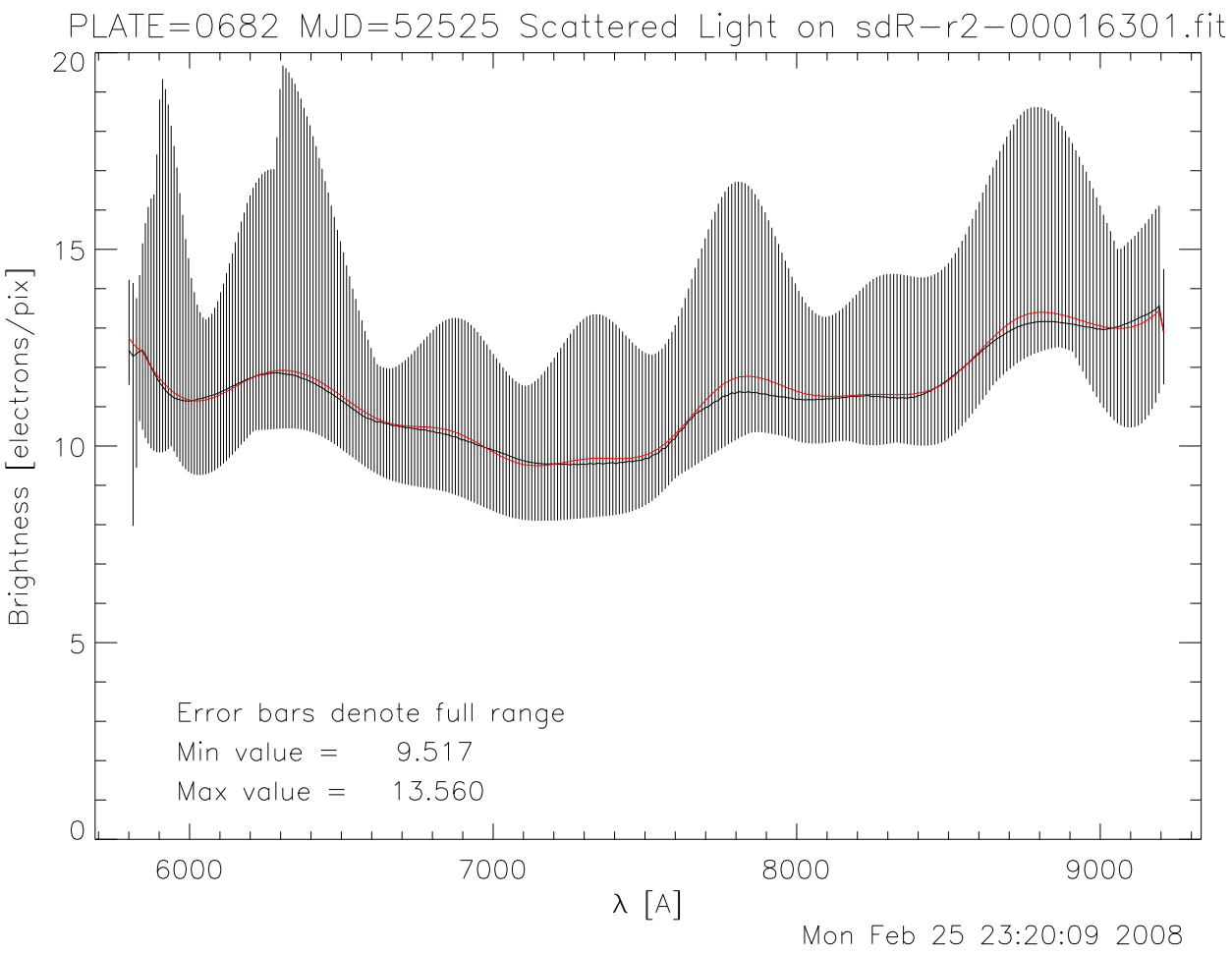

PLATE=0682 MJD=52525 Arcline Fit for sdR-r2-00016310.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 23:16:21 2008

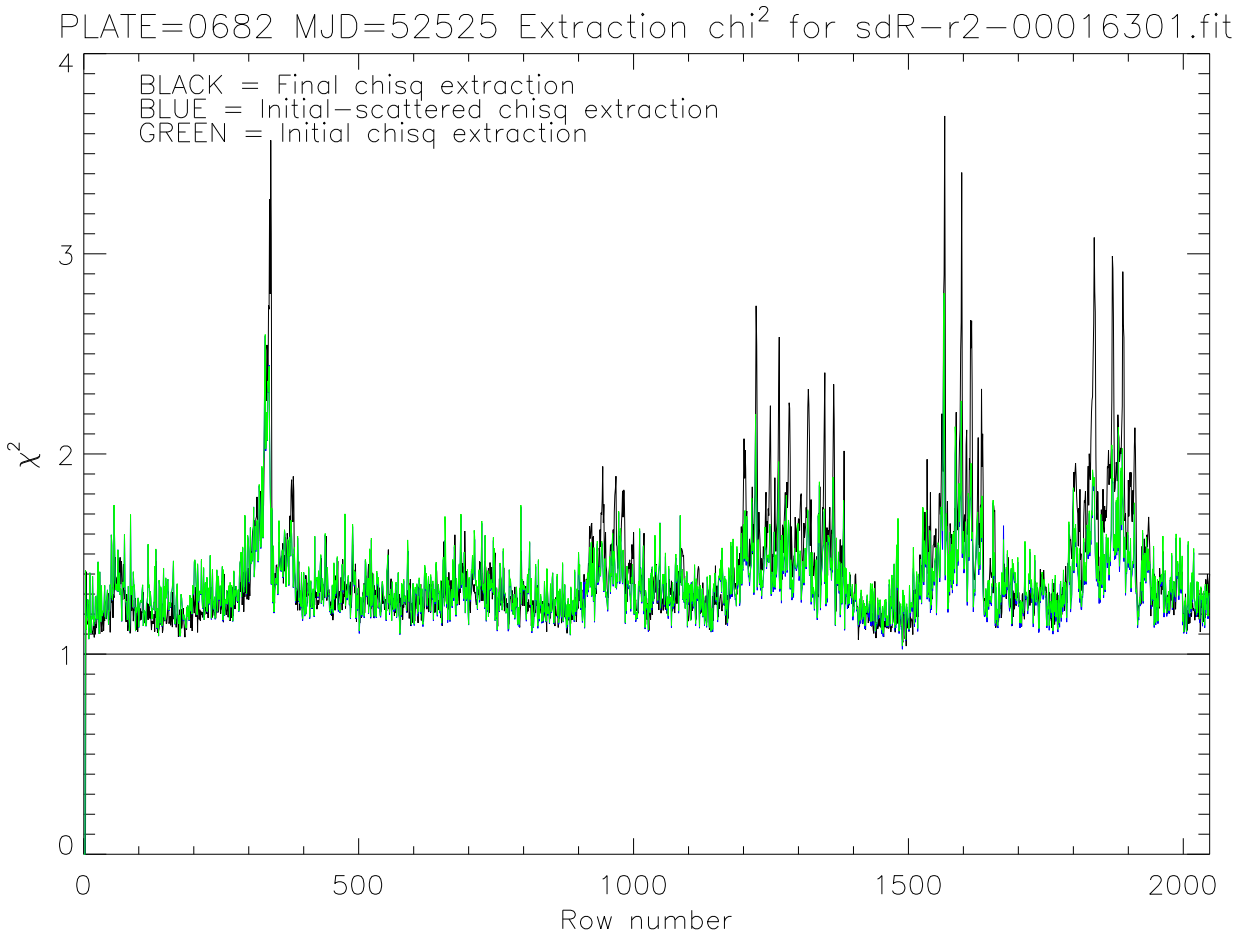

PLATE=0682 MJD=52525 Fiber−Flats for sdR−r2−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.708
Max value = 1.182
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 23:16:29 2008

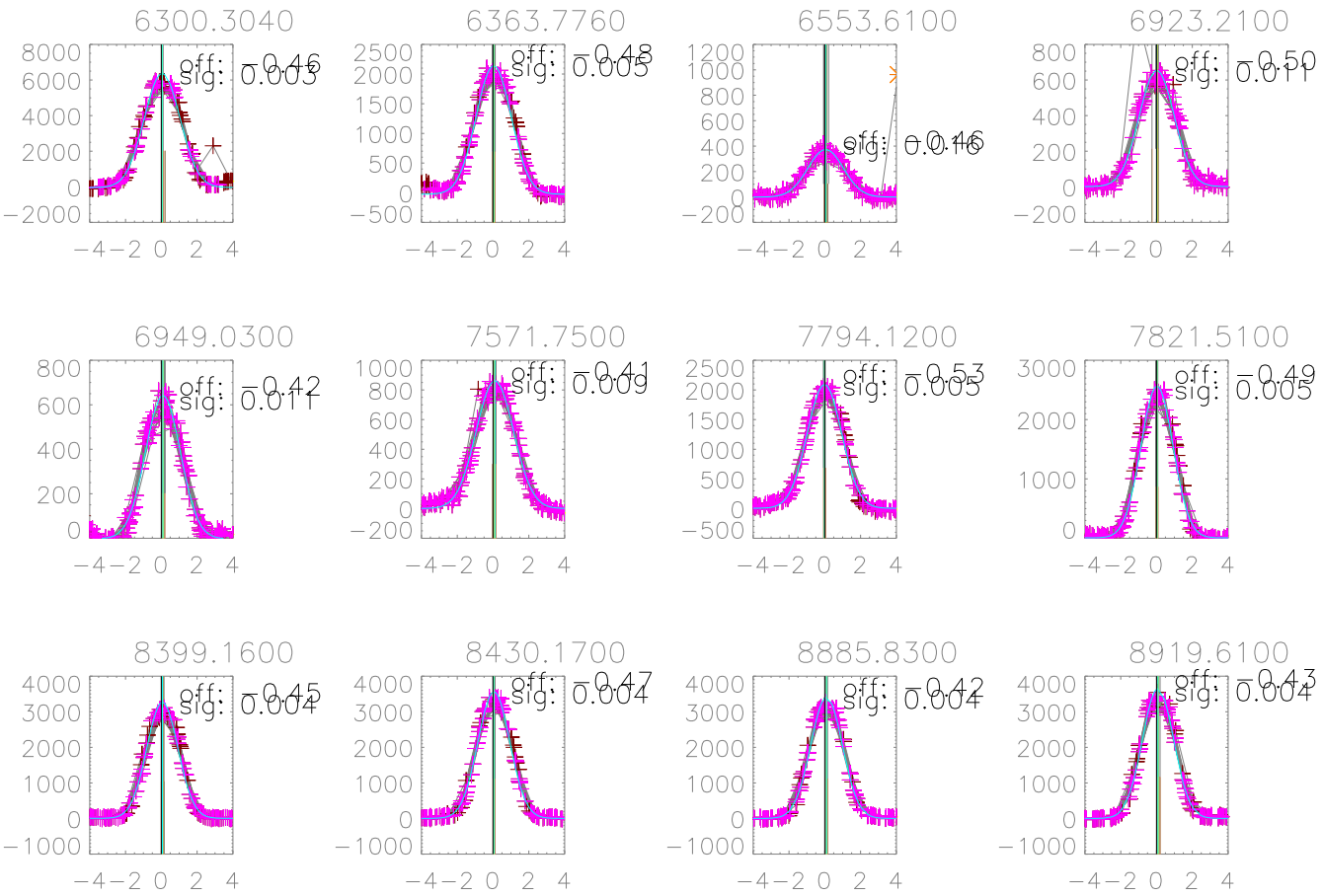

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r2-00016301.fi
31.82
22.73
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

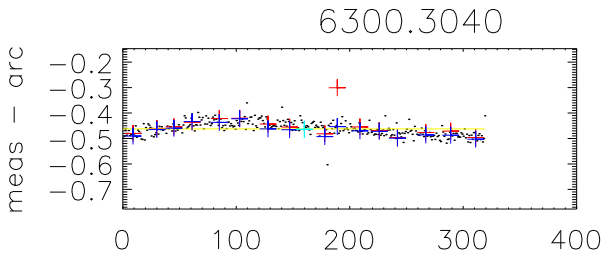

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r2-00016301.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.434
Max value = 38.539
Mon Feb 25 23:17:27 2008

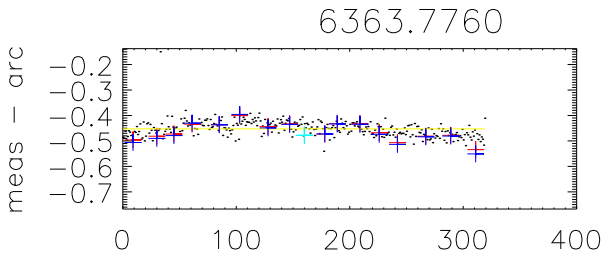

PLATE=0682 MJD=52525 Scattered Light on sdR-r2-00016301.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.5
10.5
10.5
10.5
10.5
0
0

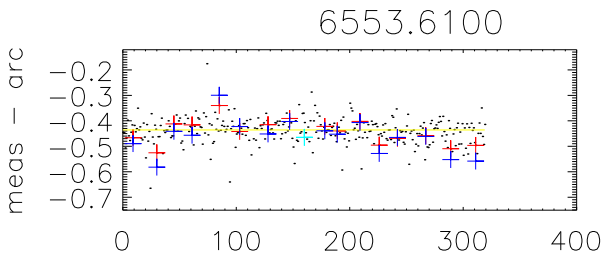

PLATE=0682 MJD=52525 Scattered Light on sdR-r2-00016301.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 9.517
Max value = 13.560
Mon Feb 25 23:20:09 2008

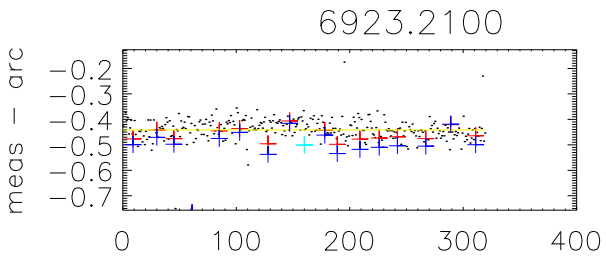

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR−r2−00016301.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
1
2
3
4
0
500
1000
1500
2000
Row number

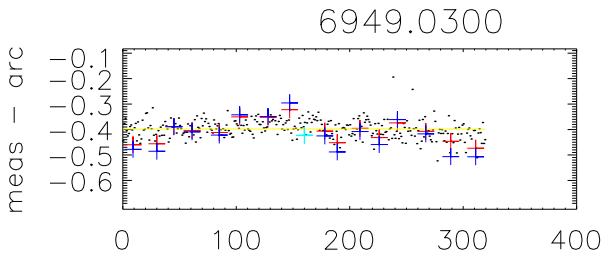

6300.3040
off: −0.46
sig: 0.003
6363.7760
off: −0.48
sig: 0.005
6553.6100
off: −0.46
sig: 0.016
6923.2100
off: −0.50
sig: 0.011
6949.0300
off: −0.42
sig: 0.011
7571.7500
off: −0.41
sig: 0.009
7794.1200
off: −0.53
sig: 0.005
7821.5100
off: −0.49
sig: 0.005
8399.1600
off: −0.45
sig: 0.004
8430.1700
off: −0.47
sig: 0.004
8885.8300
off: −0.42
sig: 0.004
8919.6100
off: −0.43
sig: 0.004

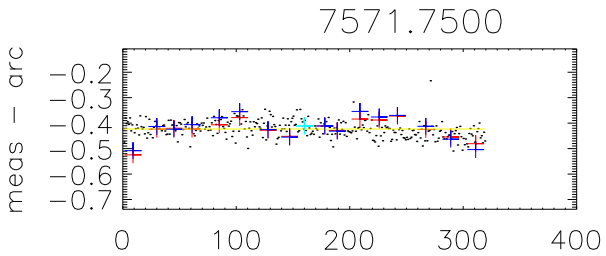

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

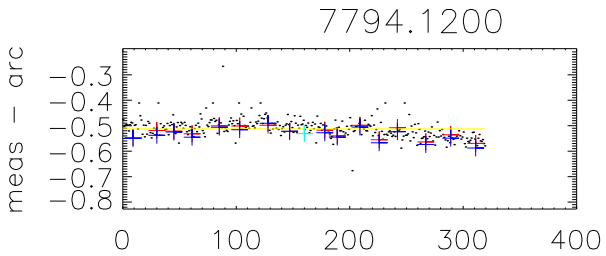

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

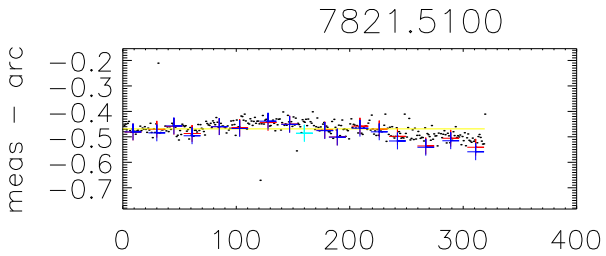

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

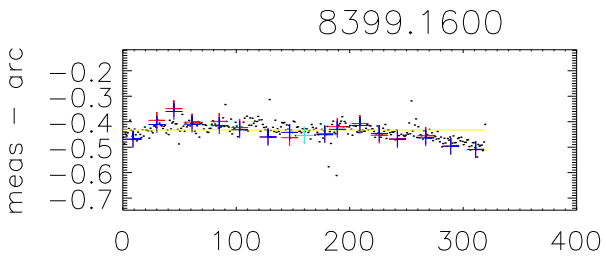

6923.2100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

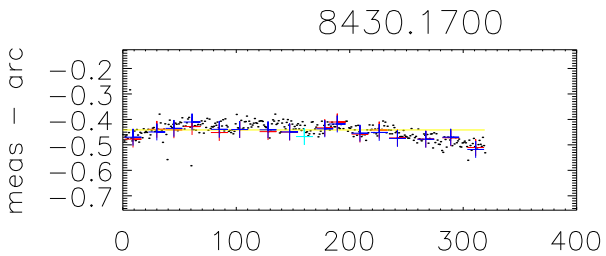

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

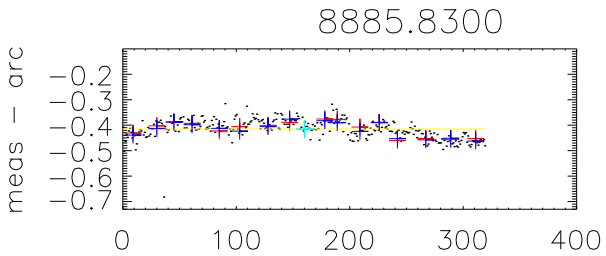

7571.7500
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

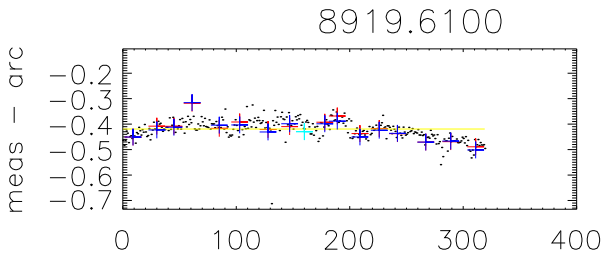

7794.1200
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

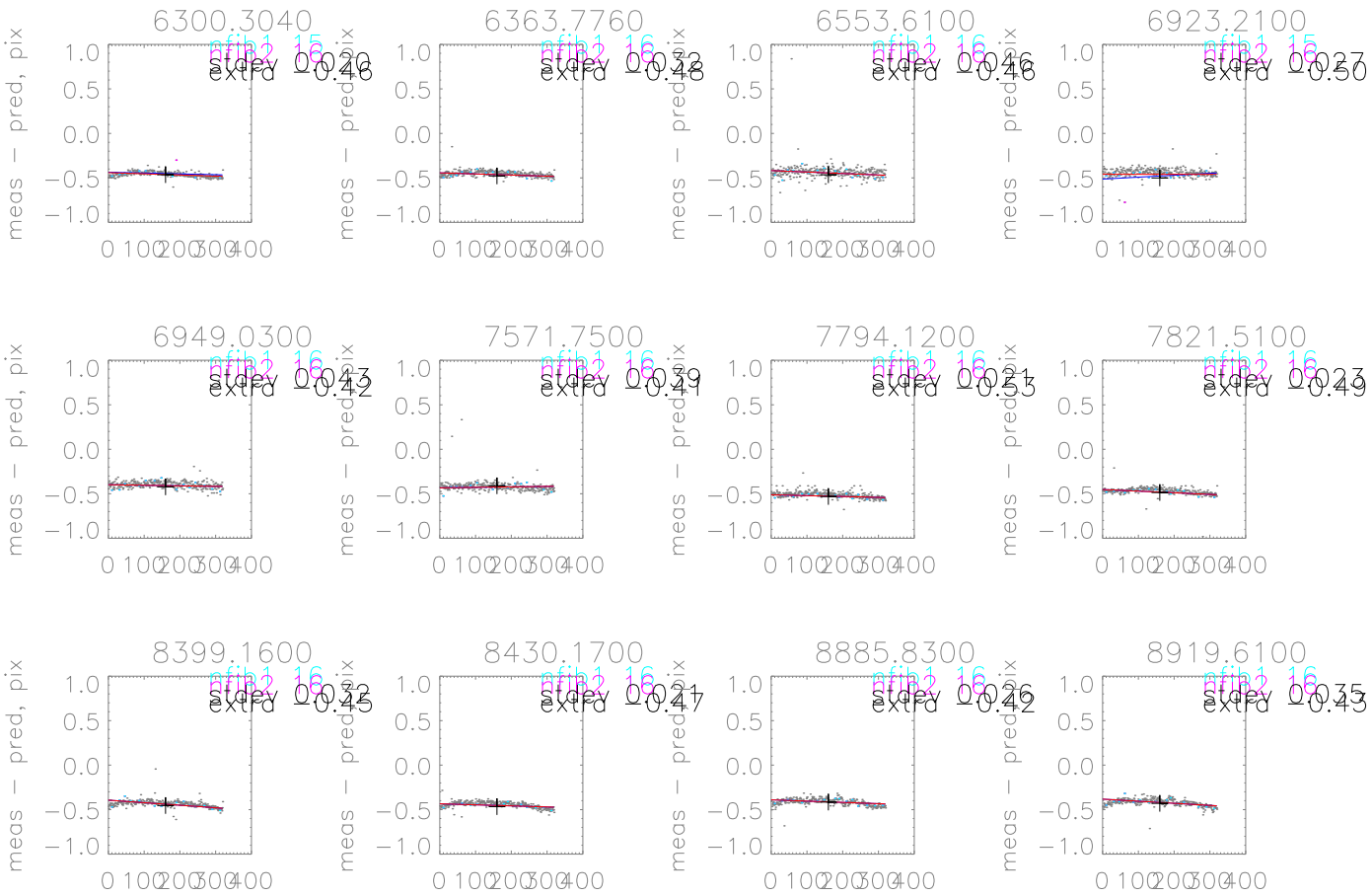

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

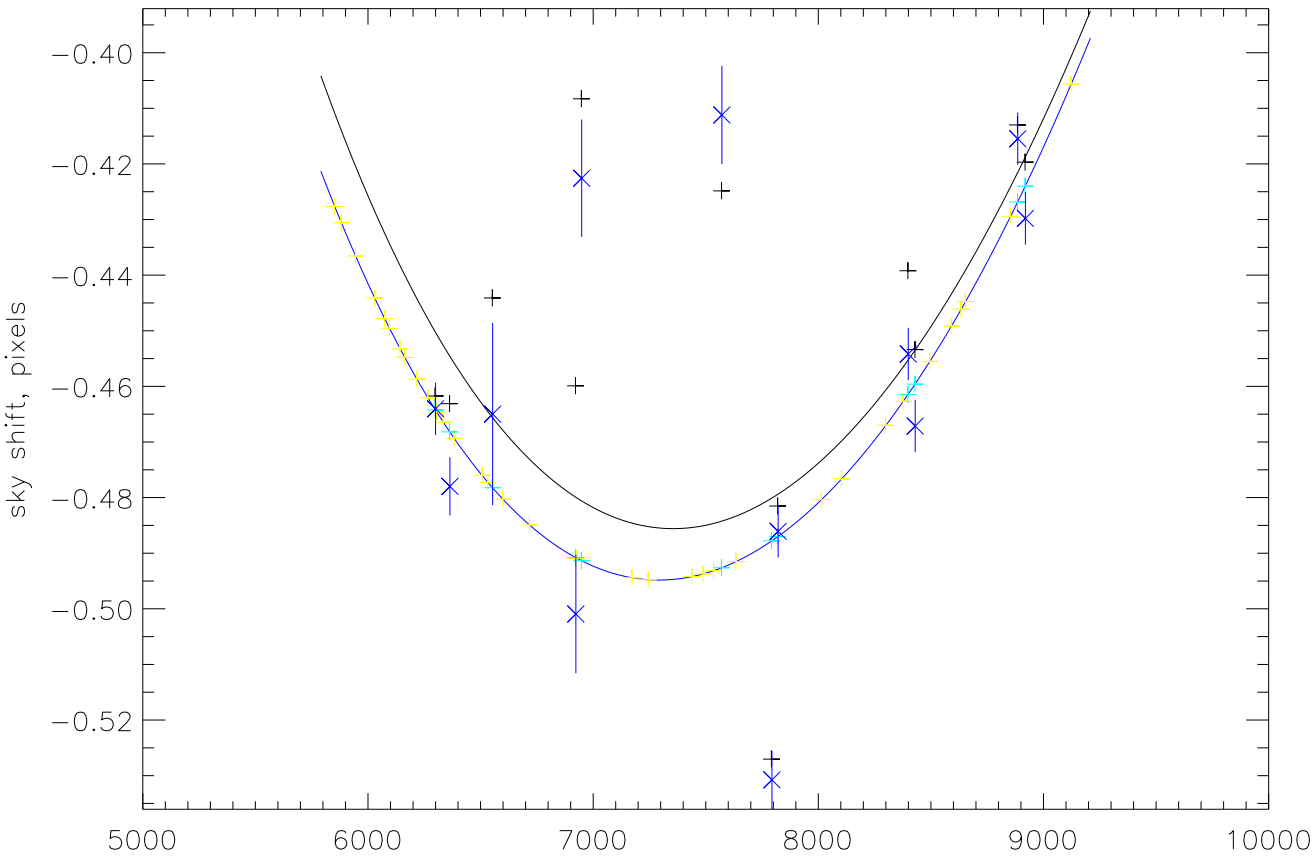

8399.1600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


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

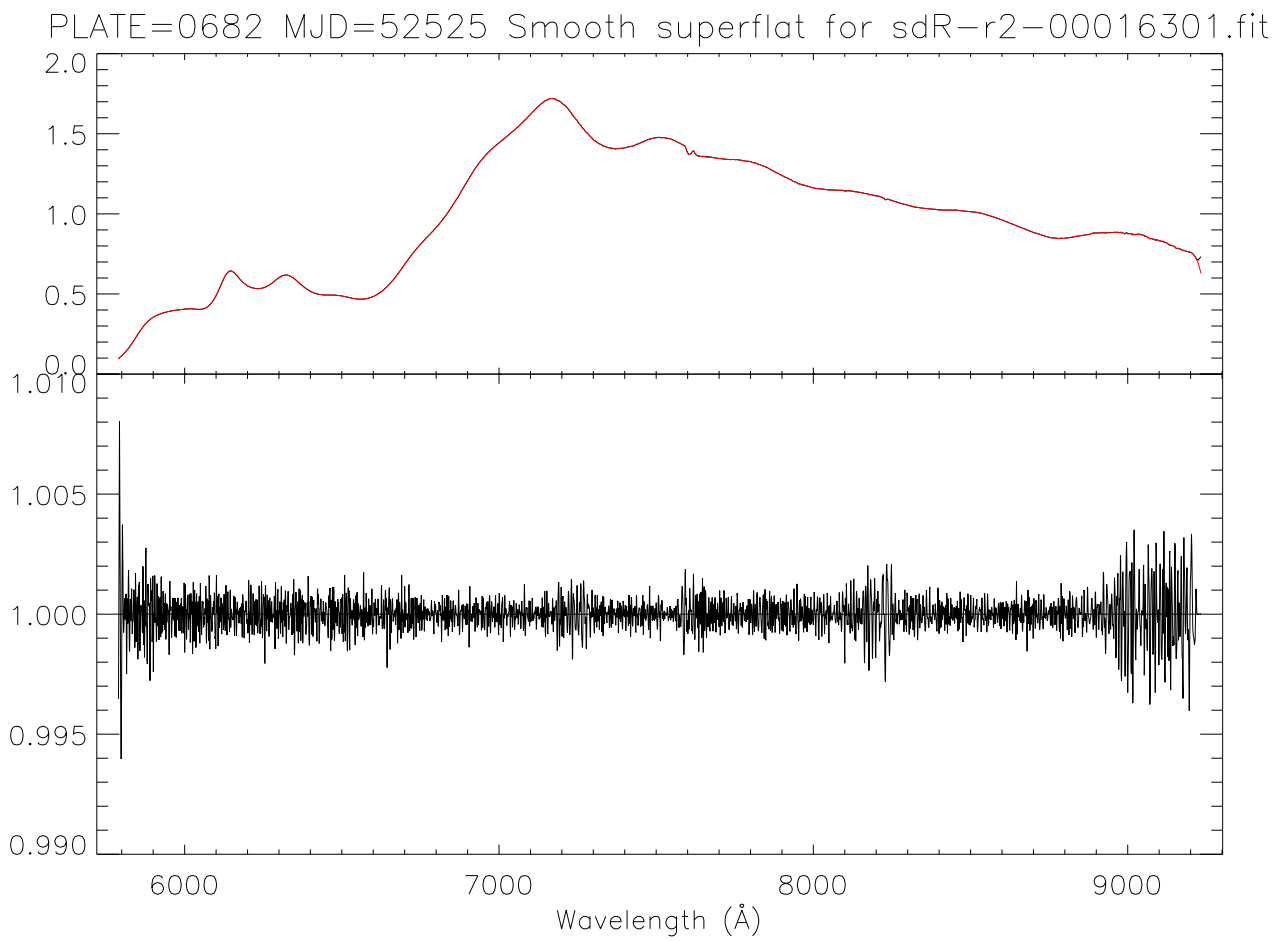

8885.8300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

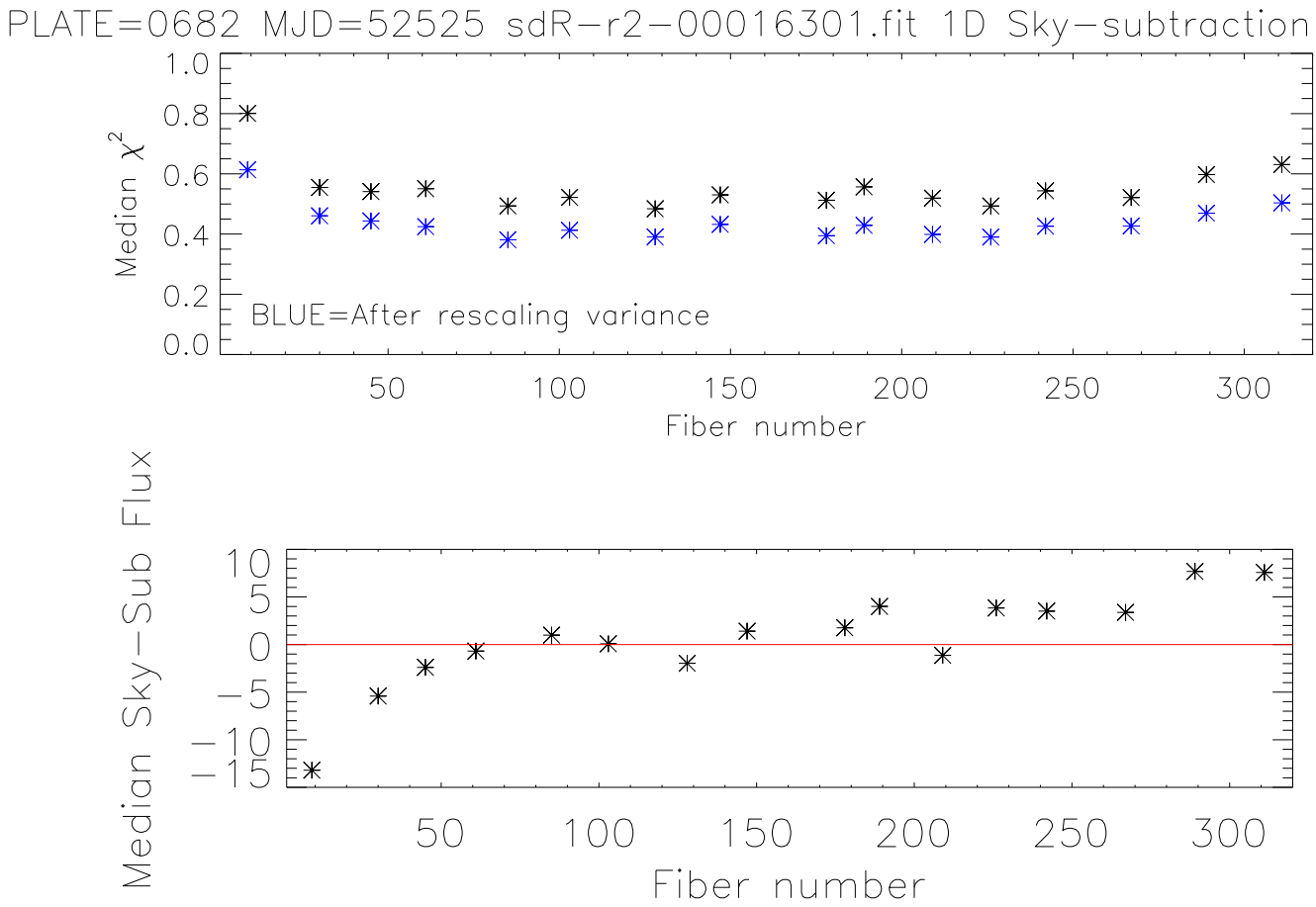

8919.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

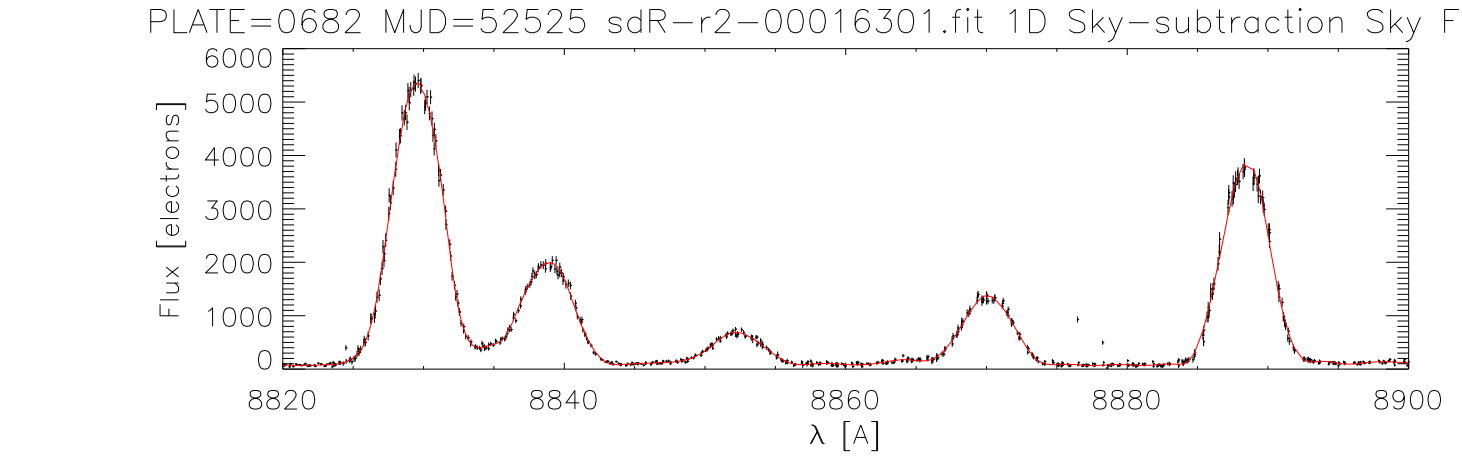

6300.3040
stdev 0.020
extra −0.46
6363.7760
stdev 0.032
extra −0.48
6553.6100
stdev 0.046
extra −0.46
6923.2100
stdev 0.027
extra −0.50
6949.0300
stdev 0.043
extra −0.42
7571.7500
stdev 0.039
extra −0.41
7794.1200
stdev 0.021
extra −0.53
7821.5100
stdev 0.023
extra −0.49
8399.1600
stdev 0.032
extra −0.45
8430.1700
stdev 0.021
extra −0.47
8885.8300
stdev 0.026
extra −0.42
8919.6100
stdev 0.035
extra −0.43
meas − pred, pix
mfhd2 16
mfhd1 16
mfhd2 15

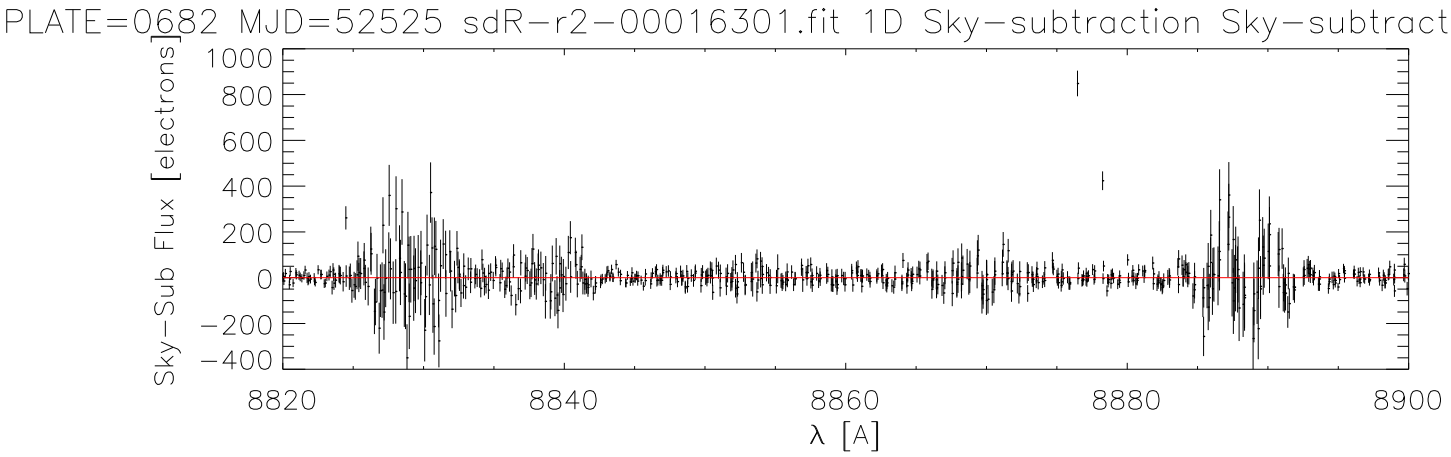

−0.40
−0.42
−0.44
−0.46
−0.48
−0.50
−0.52
sky shift, pixels
5000
6000
7000
8000
9000
10000

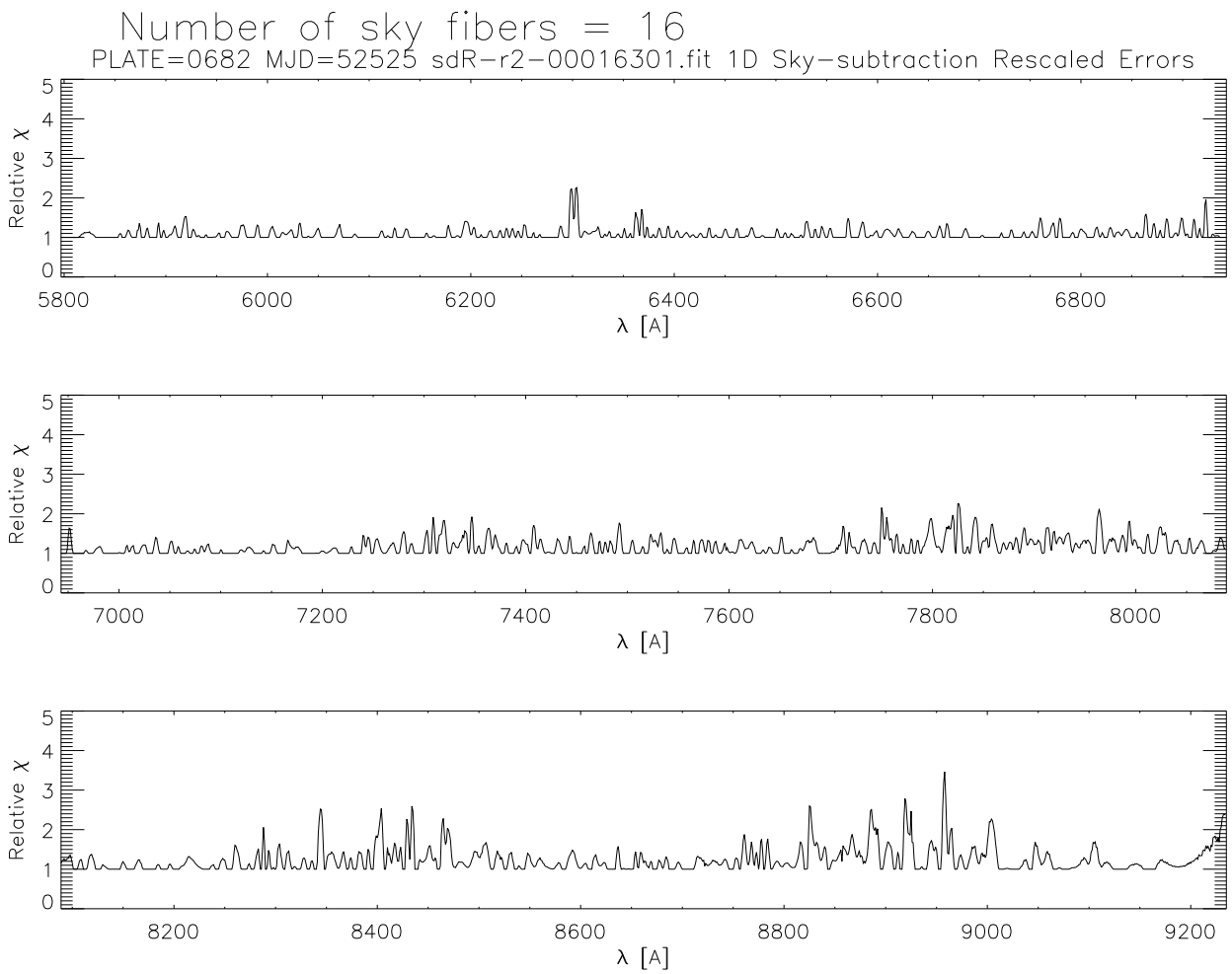
es= −0.0000

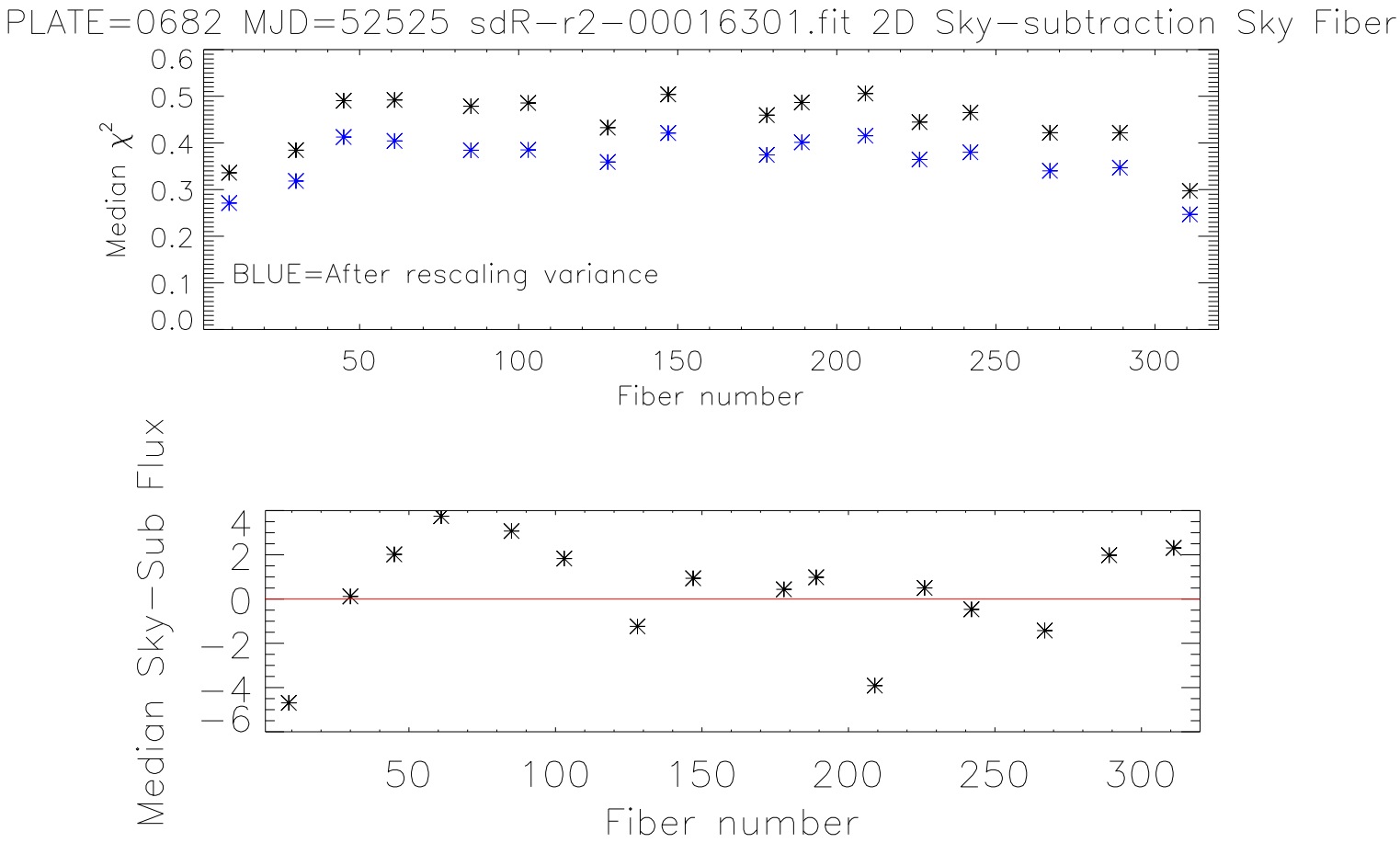

PLATE=0682 MJD=52525 Smooth superflat for sdR−r2−00016301.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

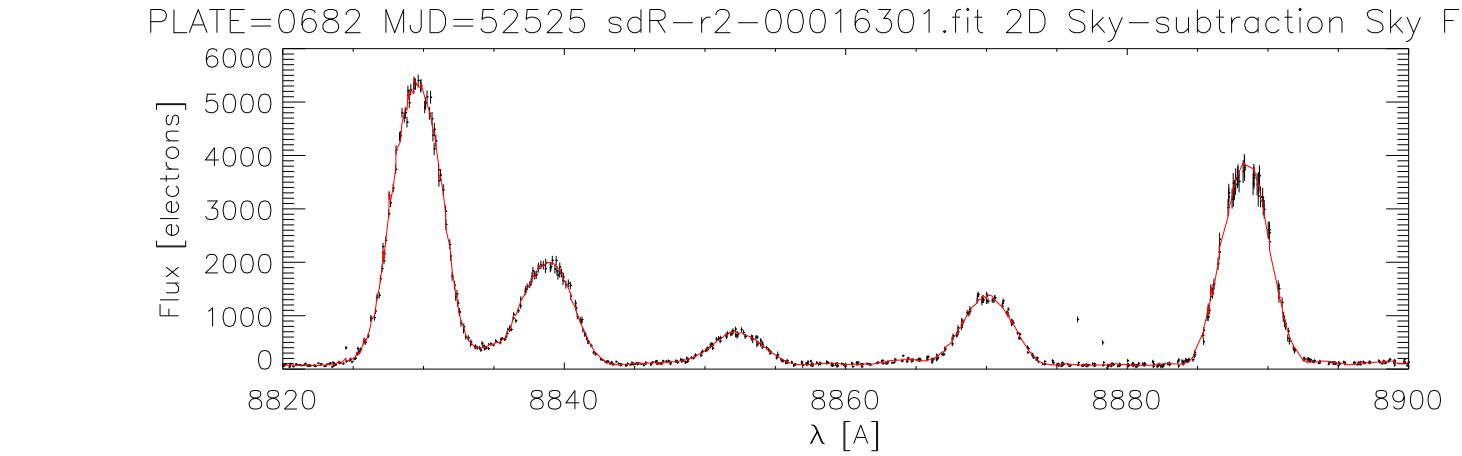

PLATE=0682 MJD=52525 sdR-r2-00016301.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

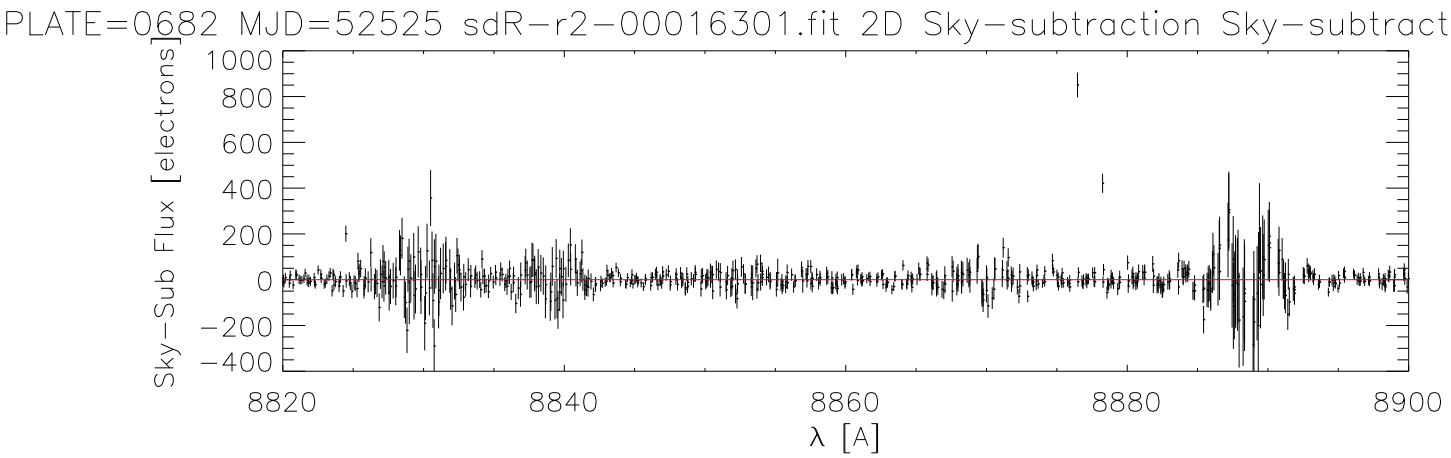

PLATE=0682 MJD=52525 sdR-r2-00016301.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

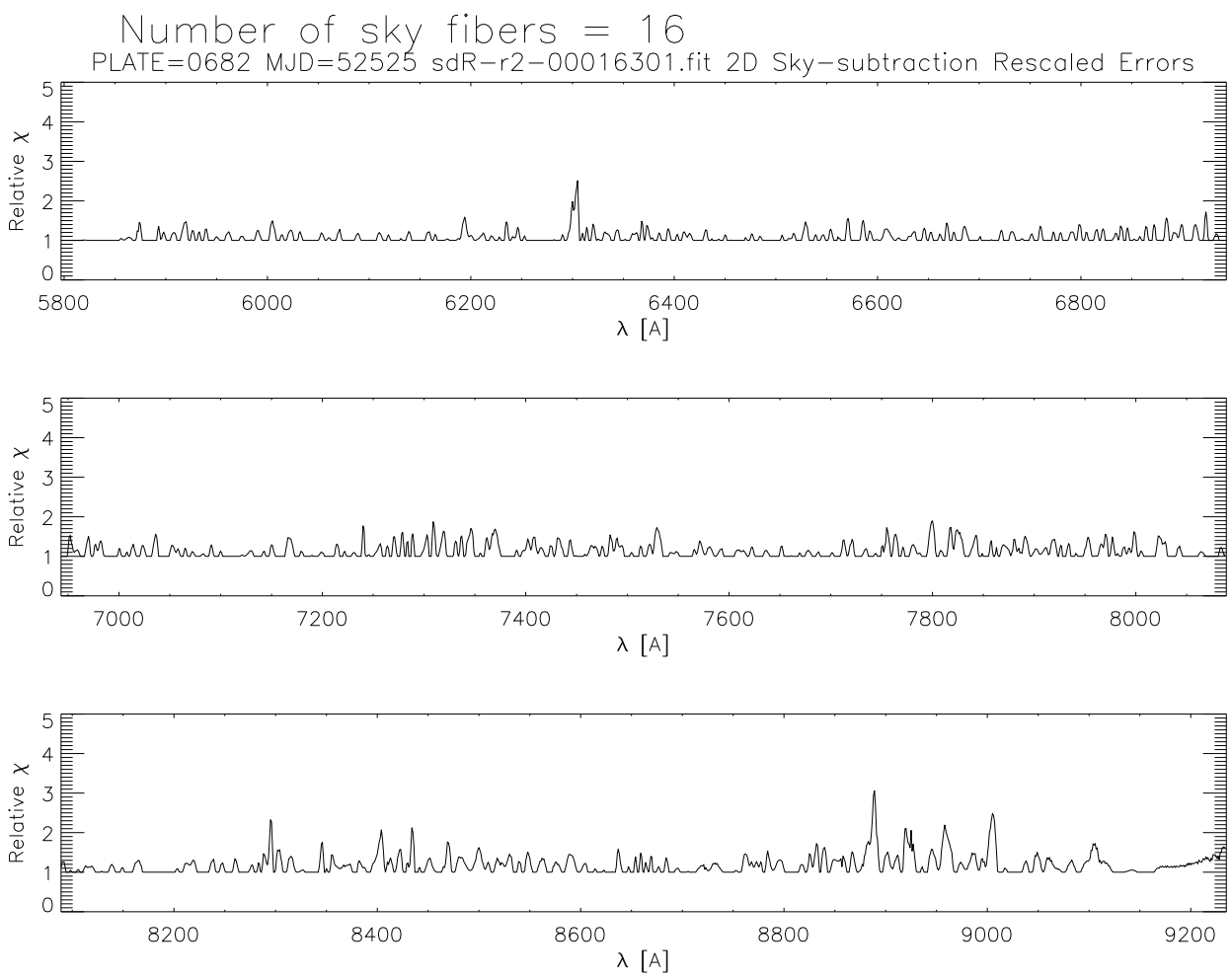

PLATE=0682 MJD=52525 sdR-r2-00016301.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

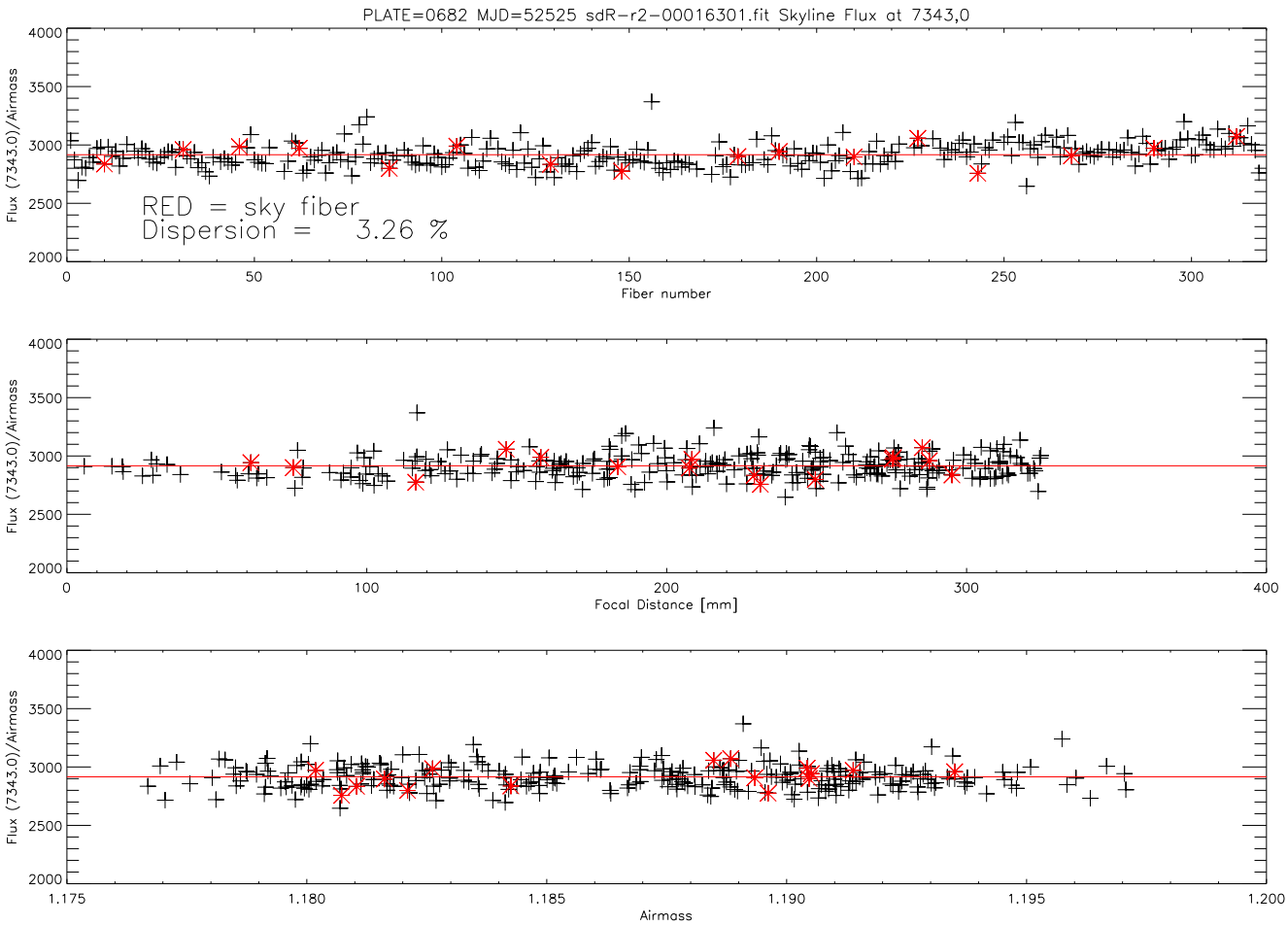

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r2-00016301.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

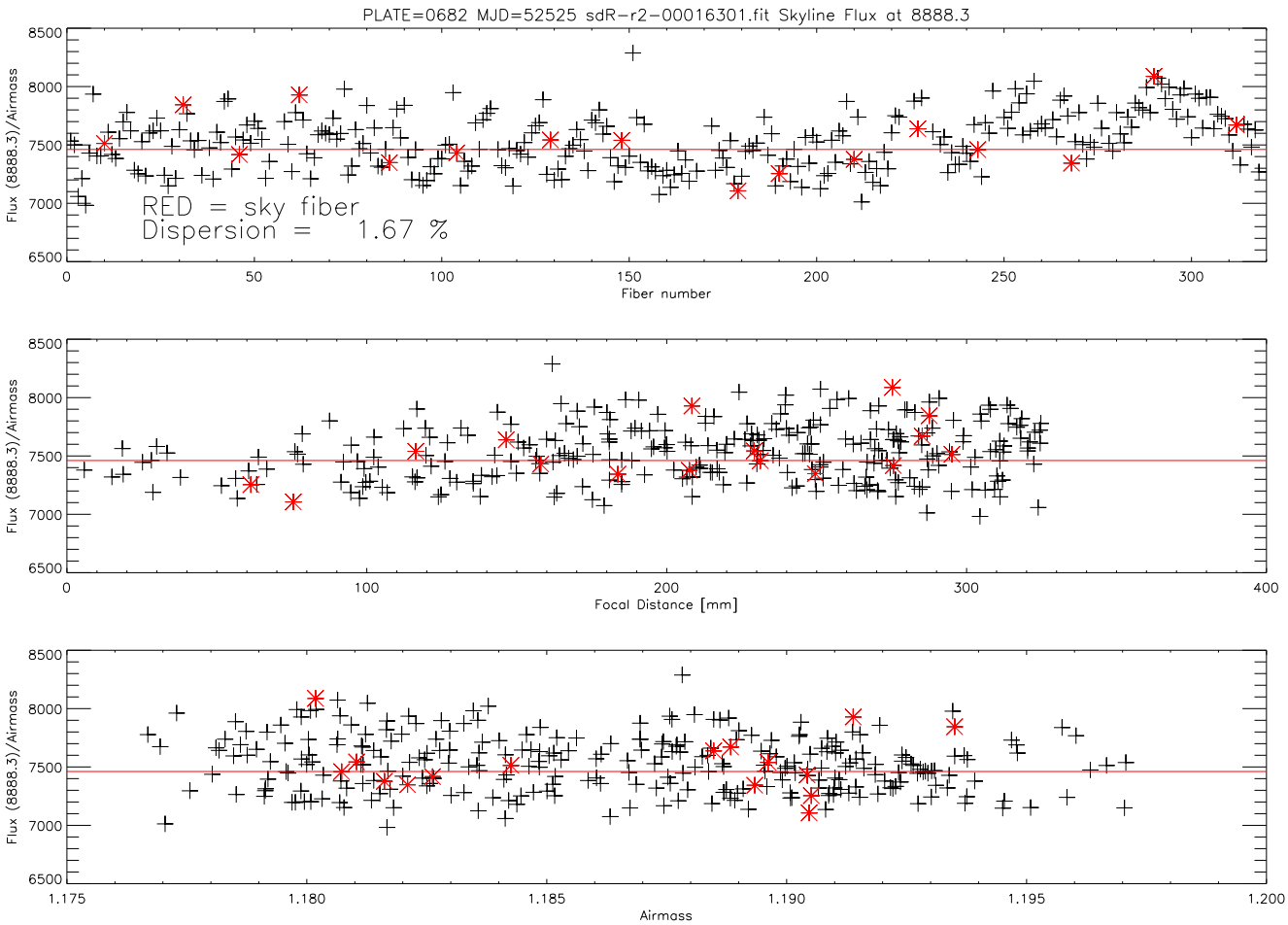

PLATE=0682 MJD=52525 sdR-r2-00016301.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

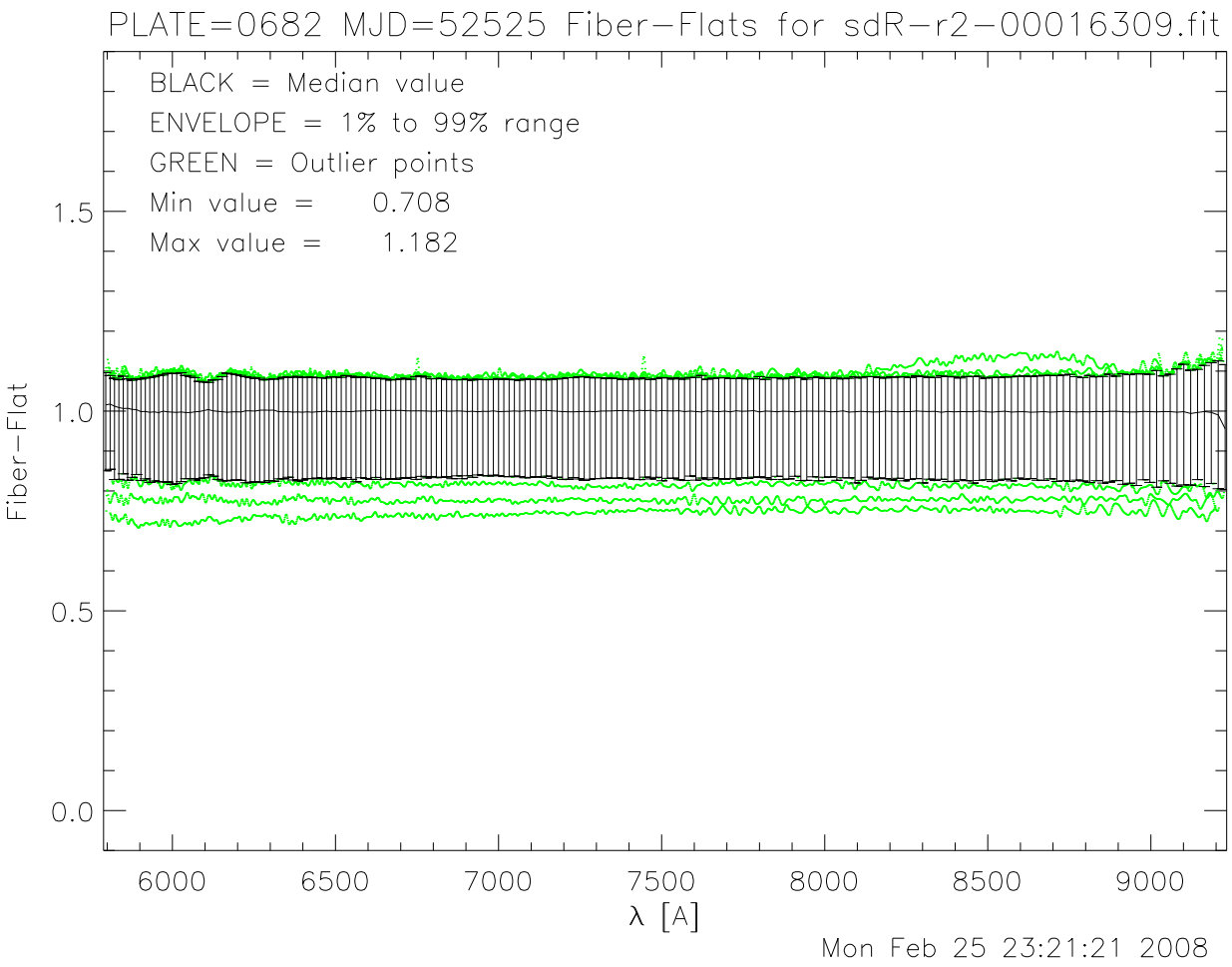

PLATE=0682 MJD=52525 sdR-r2-00016301.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

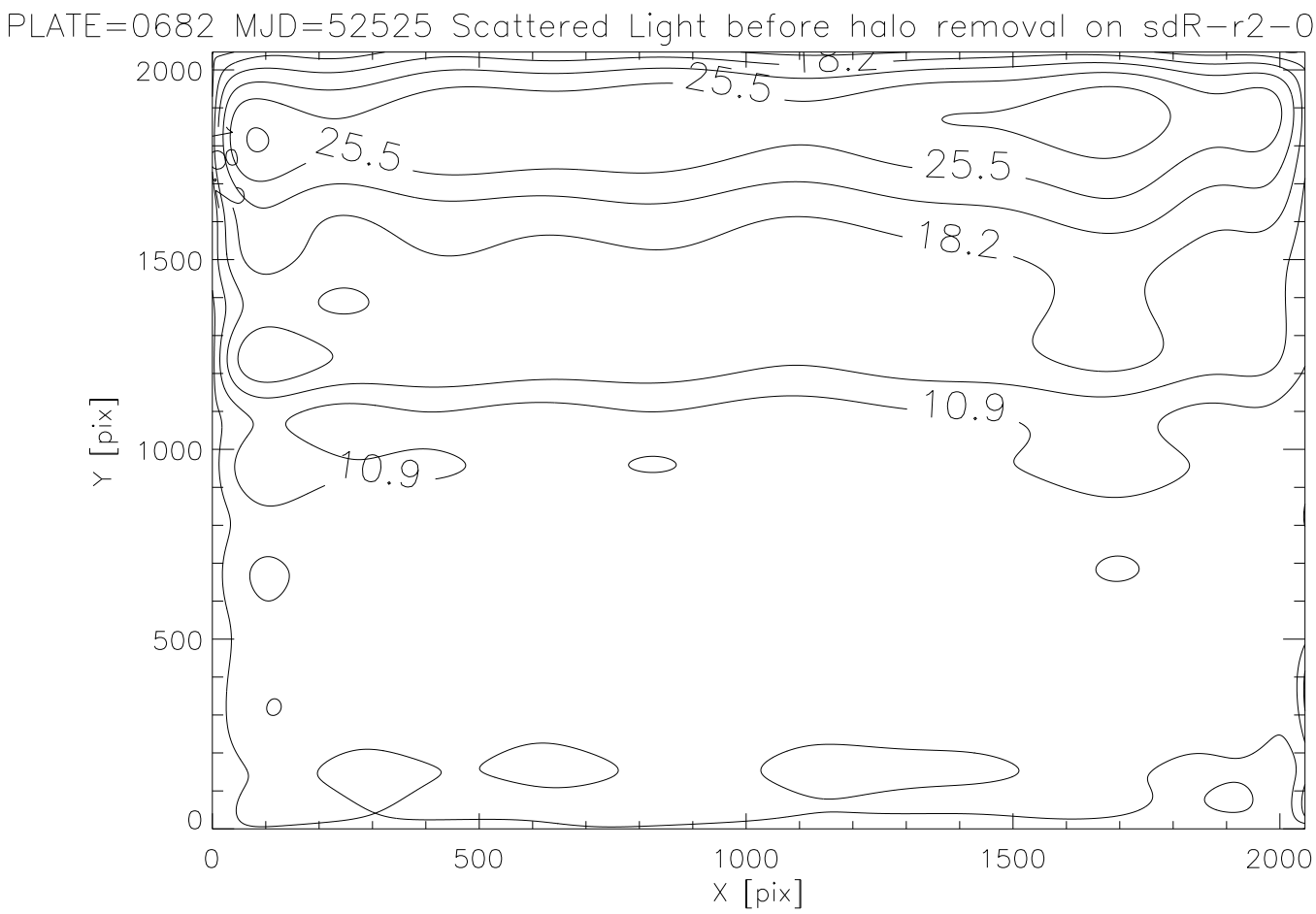

PLATE=0682 MJD=52525 sdR-r2-00016301.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

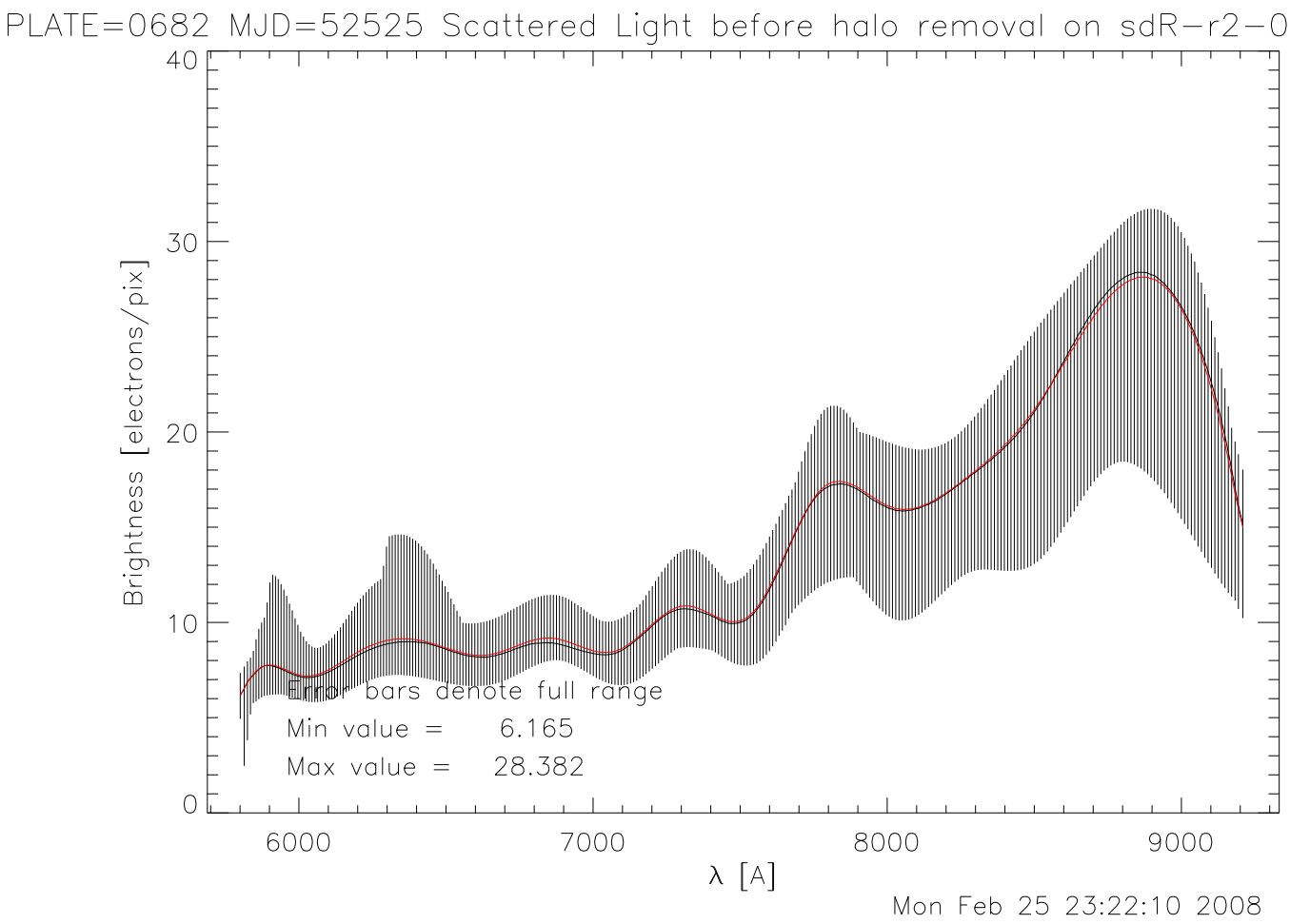

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r2-00016301.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

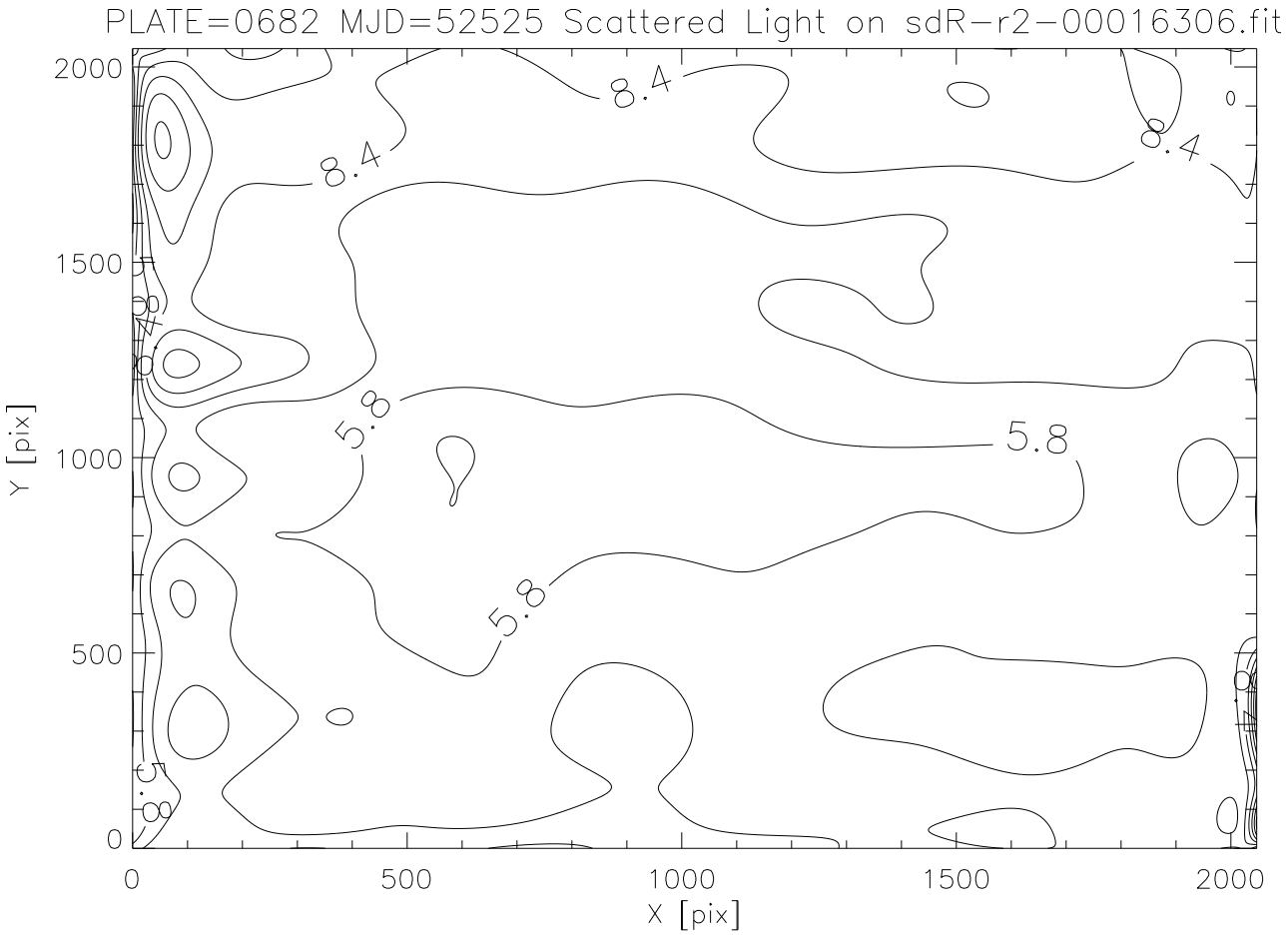

PLATE=0682 MJD=52525 sdR-r2-00016301.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.26 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

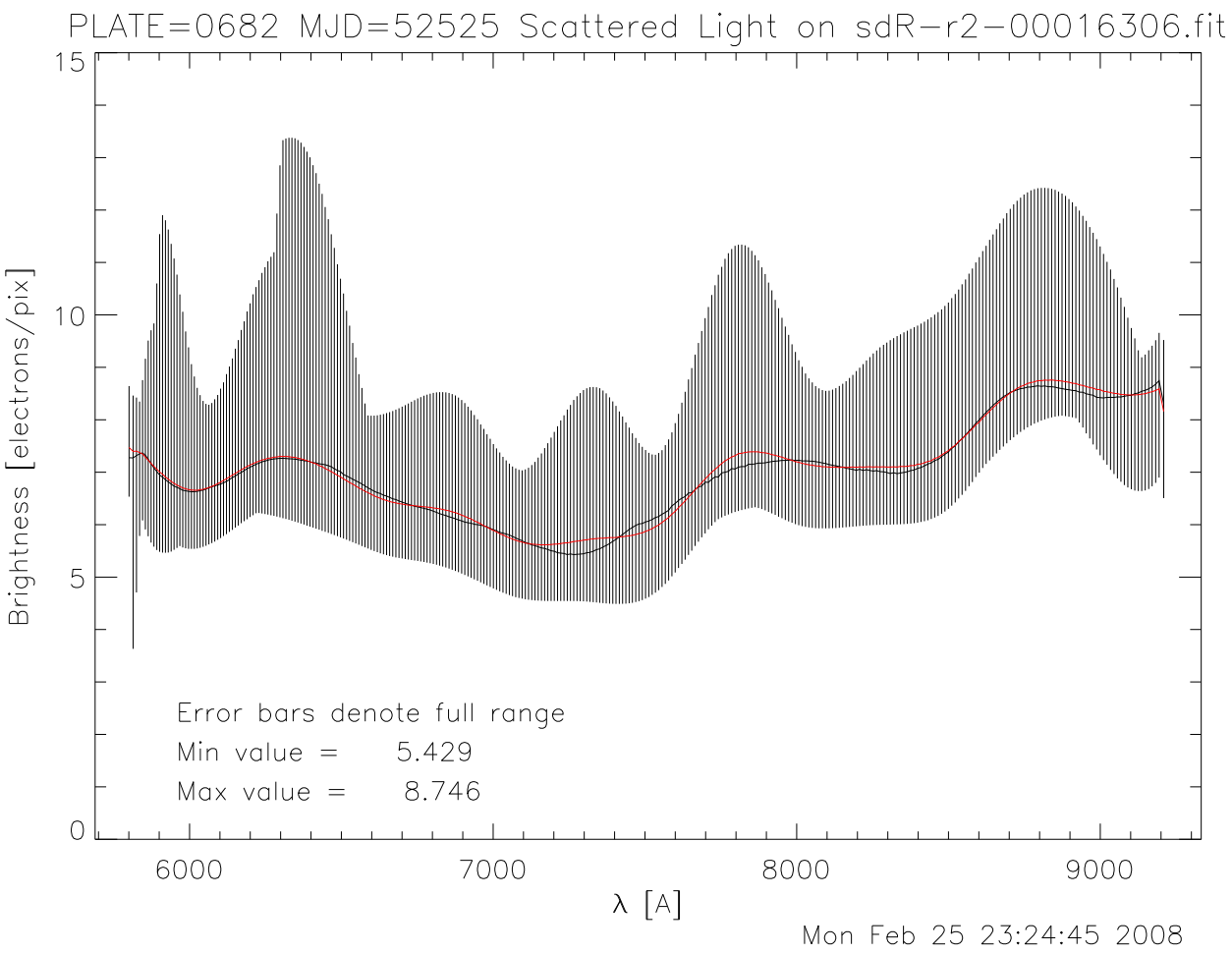

PLATE=0682 MJD=52525 sdR-r2-00016301.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.67 %
Fiber number
Focal Distance [mm]
Airmass

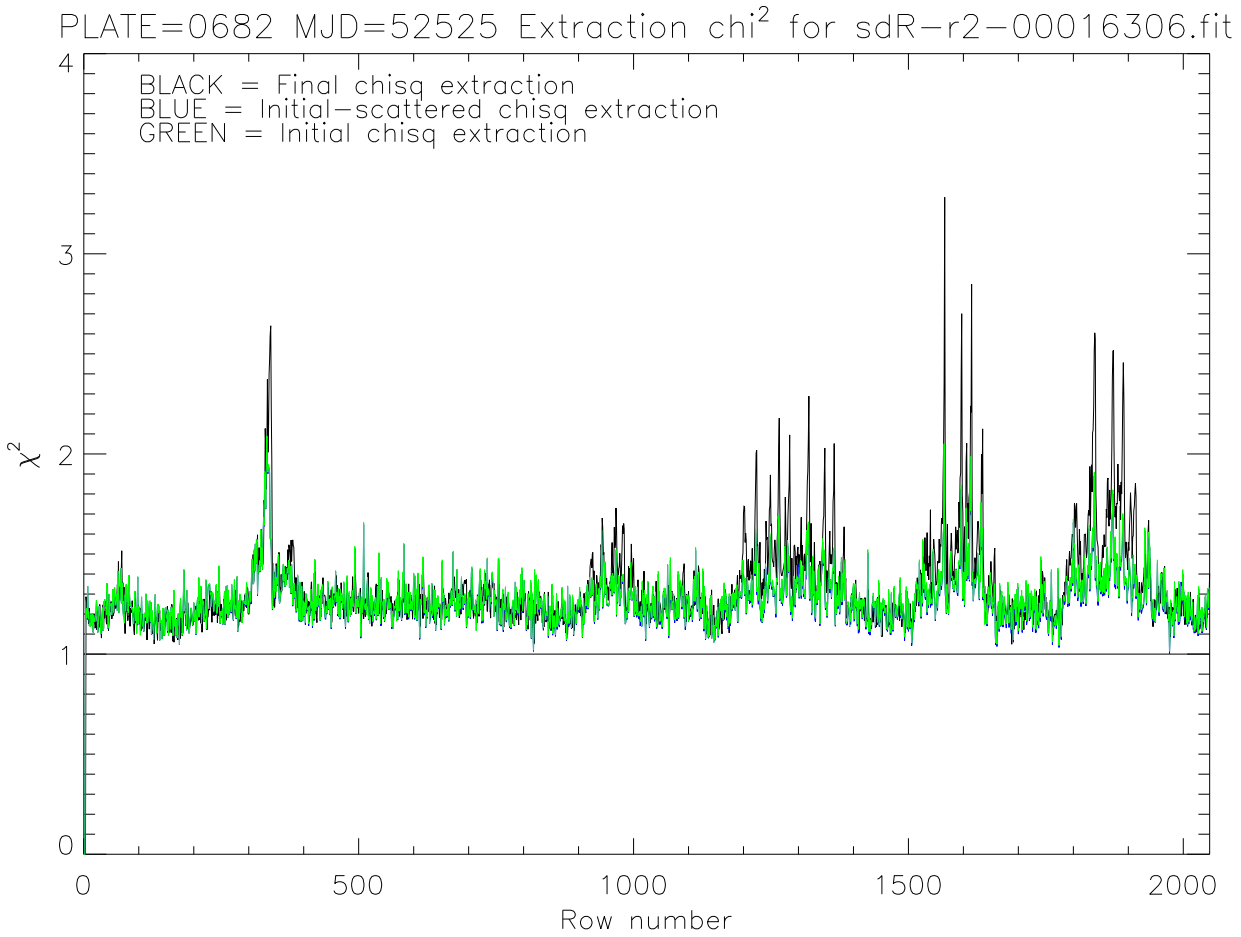

PLATE=0682 MJD=52525 Fiber−Flats for sdR−r2−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.708
Max value = 1.182
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 23:21:21 2008

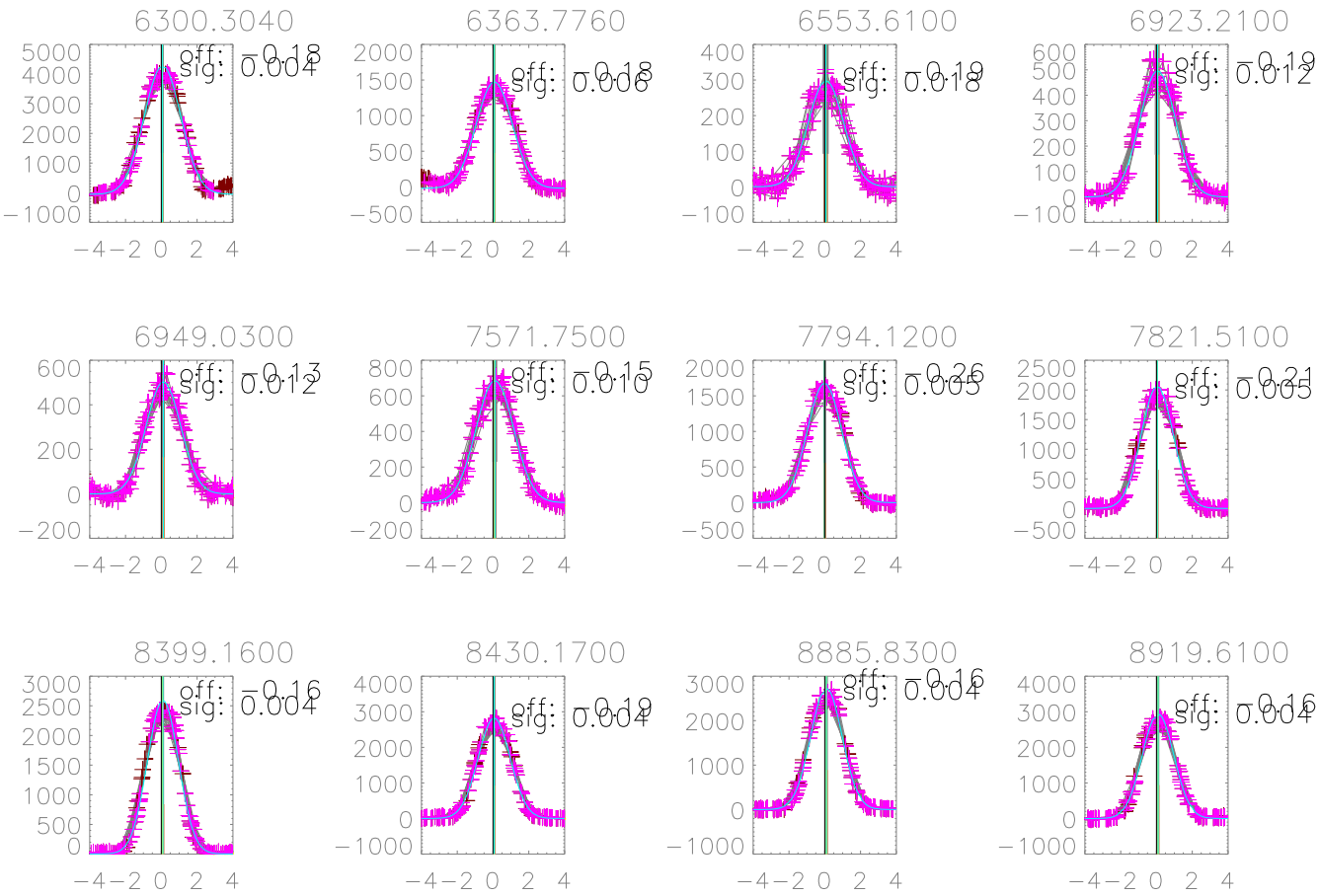

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r2-00016306.fi
25.5
25.5
25.5
18.2
18.2
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

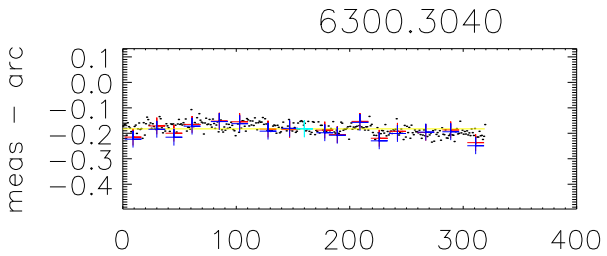

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r2-00016306.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.165
Max value = 28.382
Mon Feb 25 23:22:10 2008

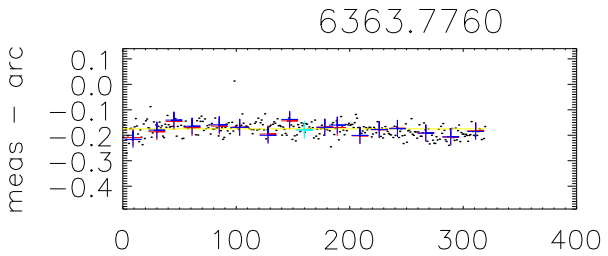

PLATE=0682 MJD=52525 Scattered Light on sdR-r2-00016306.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.4
5.8

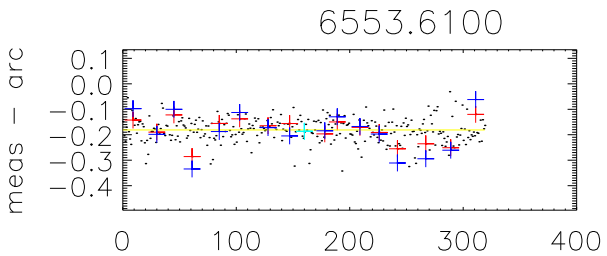

PLATE=0682 MJD=52525 Scattered Light on sdR-r2-00016306.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.429
Max value = 8.746
Mon Feb 25 23:24:45 2008

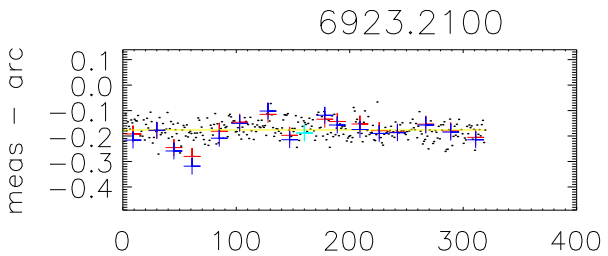

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR−r2−00016306.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
1
2
3
4
0
500
1000
1500
2000
Row number

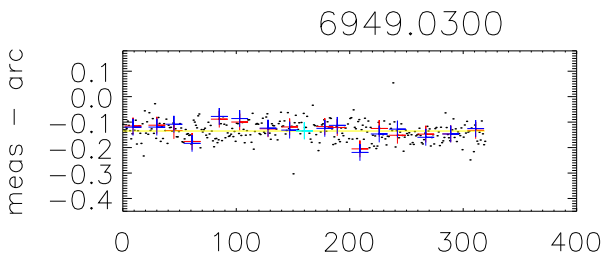

6300.3040
off: −0.18
sig: 0.004
6363.7760
off: −0.18
sig: 0.006
6553.6100
off: −0.19
sig: 0.018
6923.2100
off: −0.19
sig: 0.012
6949.0300
off: −0.13
sig: 0.012
7571.7500
off: −0.15
sig: 0.010
7794.1200
off: −0.26
sig: 0.005
7821.5100
off: −0.21
sig: 0.005
8399.1600
off: −0.16
sig: 0.004
8430.1700
off: −0.19
sig: 0.004
8885.8300
off: −0.16
sig: 0.004
8919.6100
off: −0.16
sig: 0.004

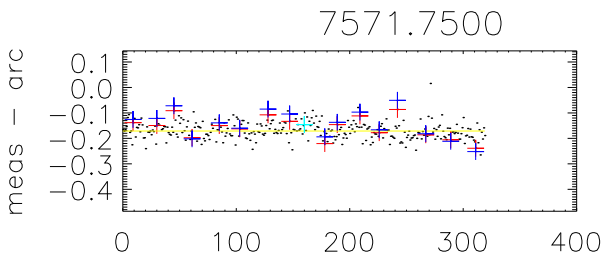

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

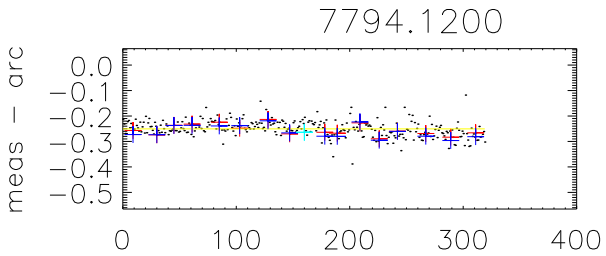

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

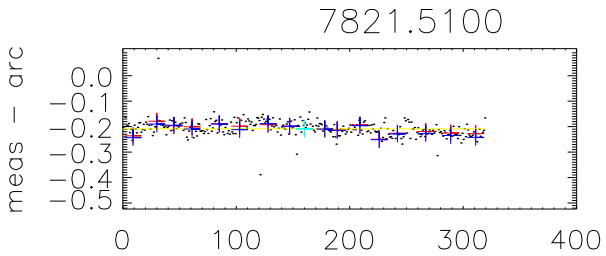

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

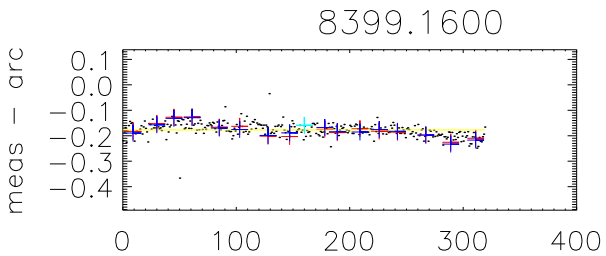

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

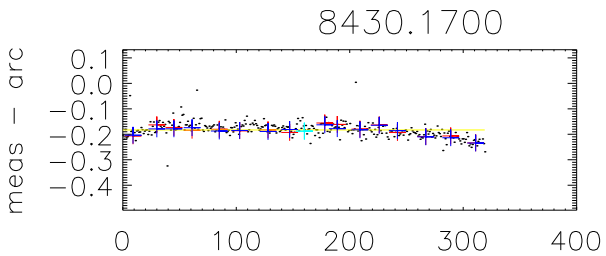

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

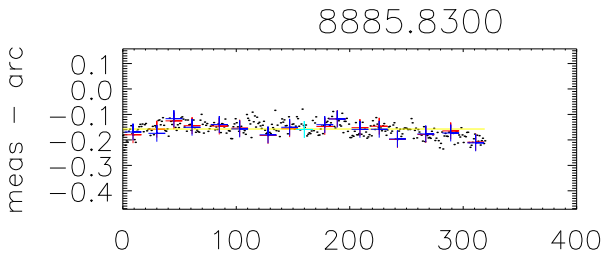

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

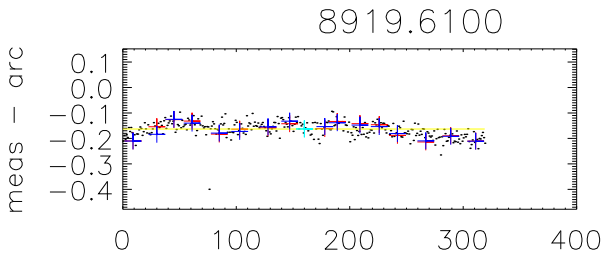

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

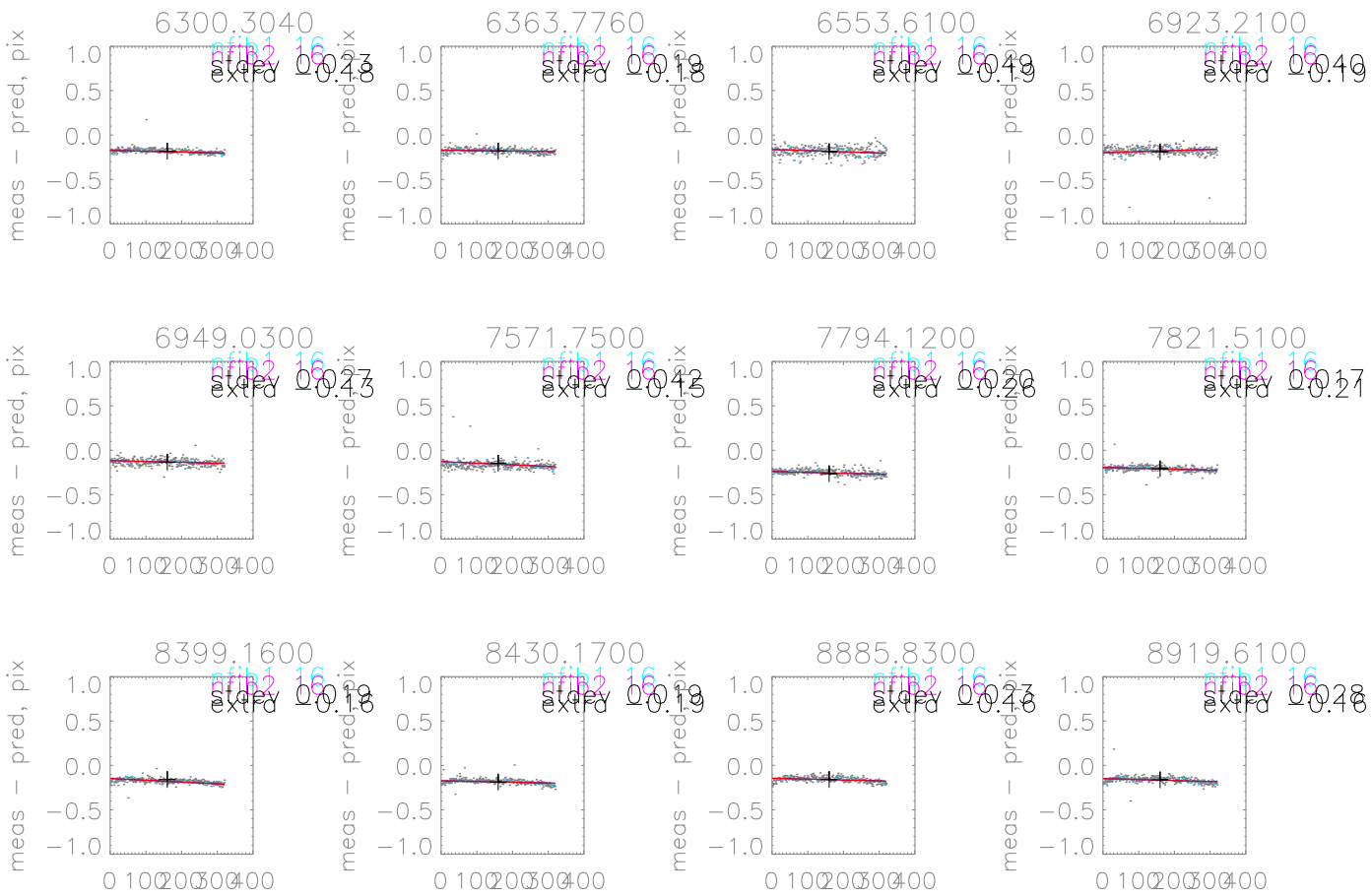

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

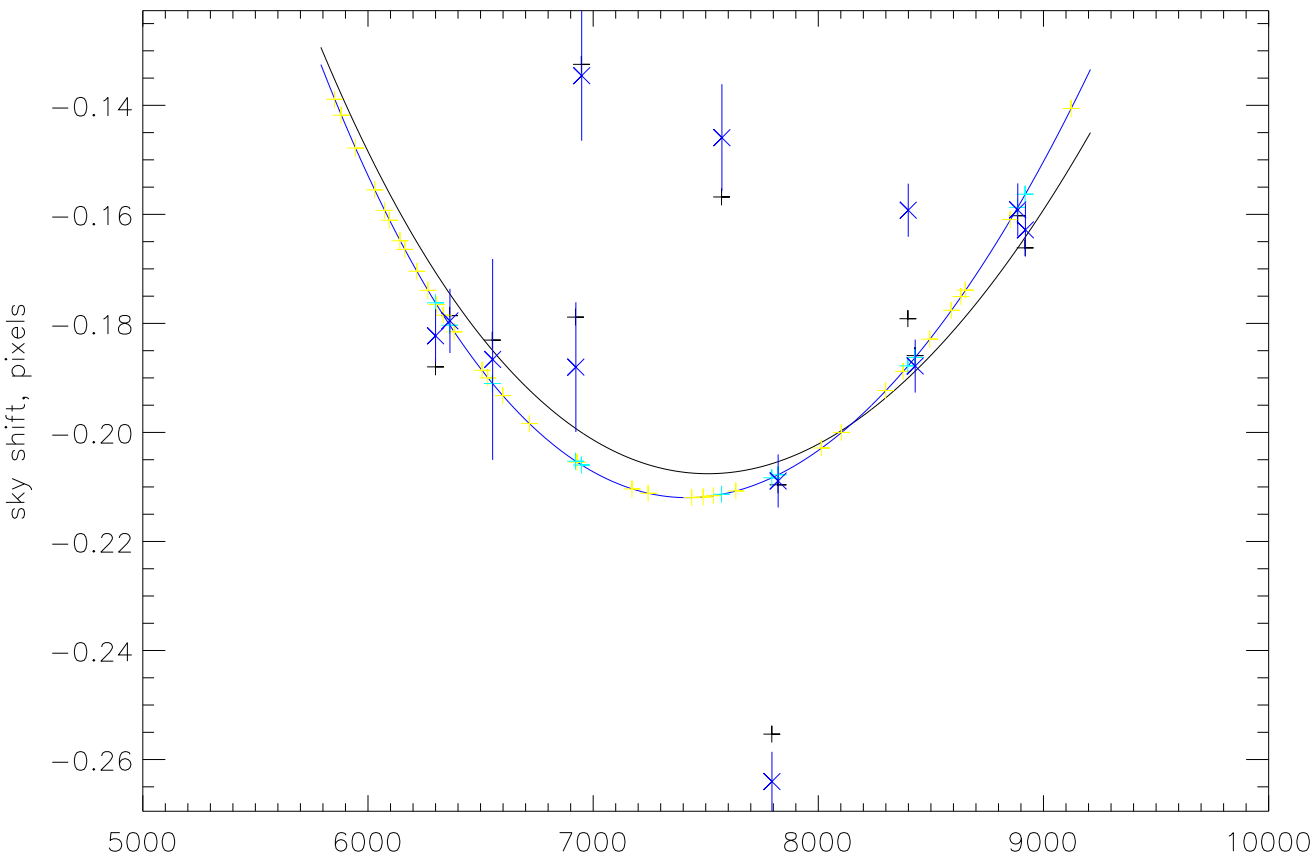

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

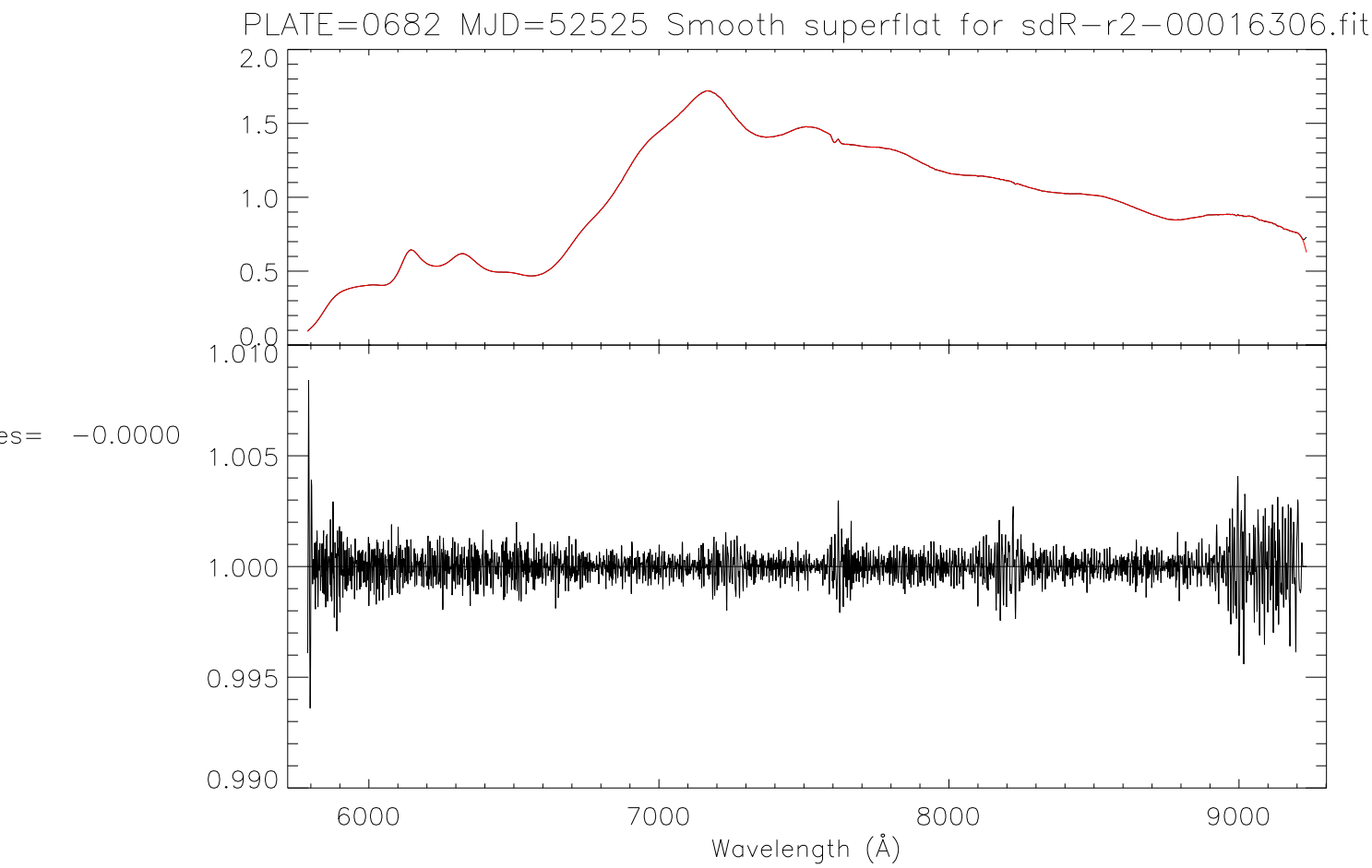

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

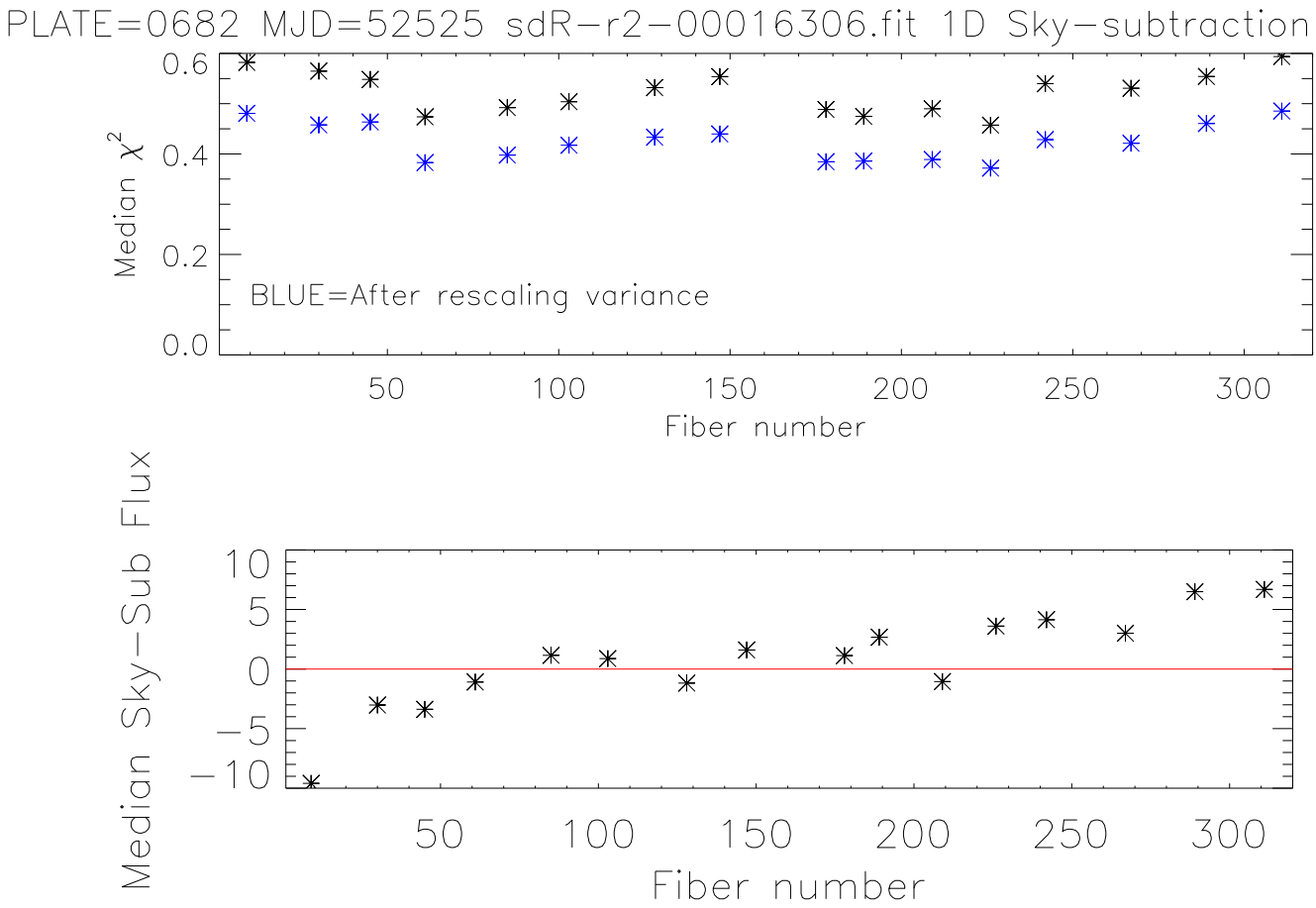

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

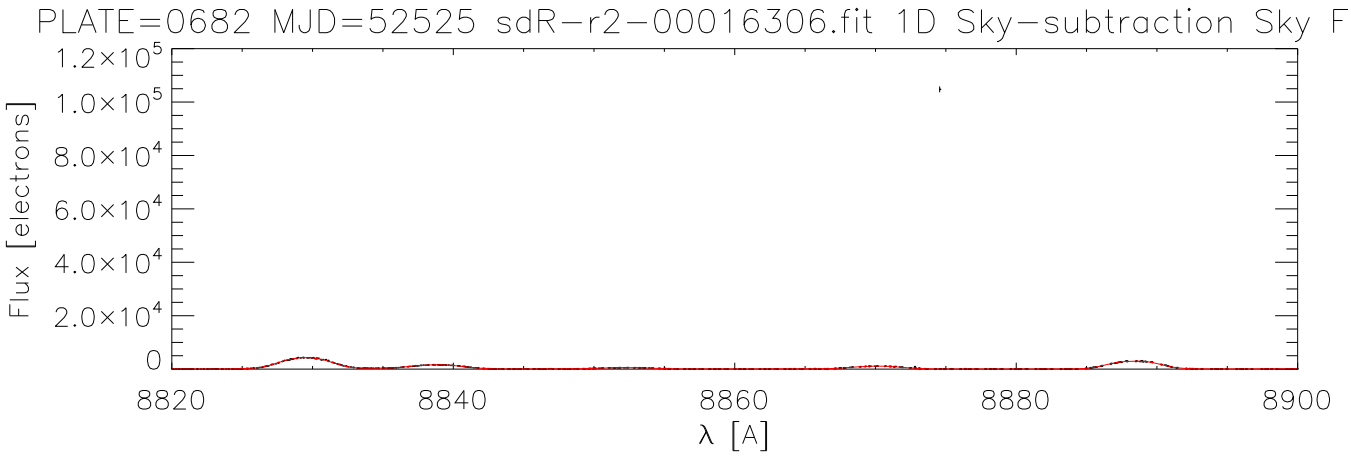

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhs2 16
stdev 0.23
extrd 0.48
stdev 0.19
extrd 0.18
stdev 0.49
extrd 0.19
stdev 0.40
extrd 0.19
stdev 0.27
extrd 0.43
stdev 0.42
extrd 0.15
stdev 0.20
extrd 0.26
stdev 0.17
extrd 0.21
stdev 0.19
extrd 0.18
stdev 0.19
extrd 0.19
stdev 0.23
extrd 0.46
stdev 0.28
extrd 0.46
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

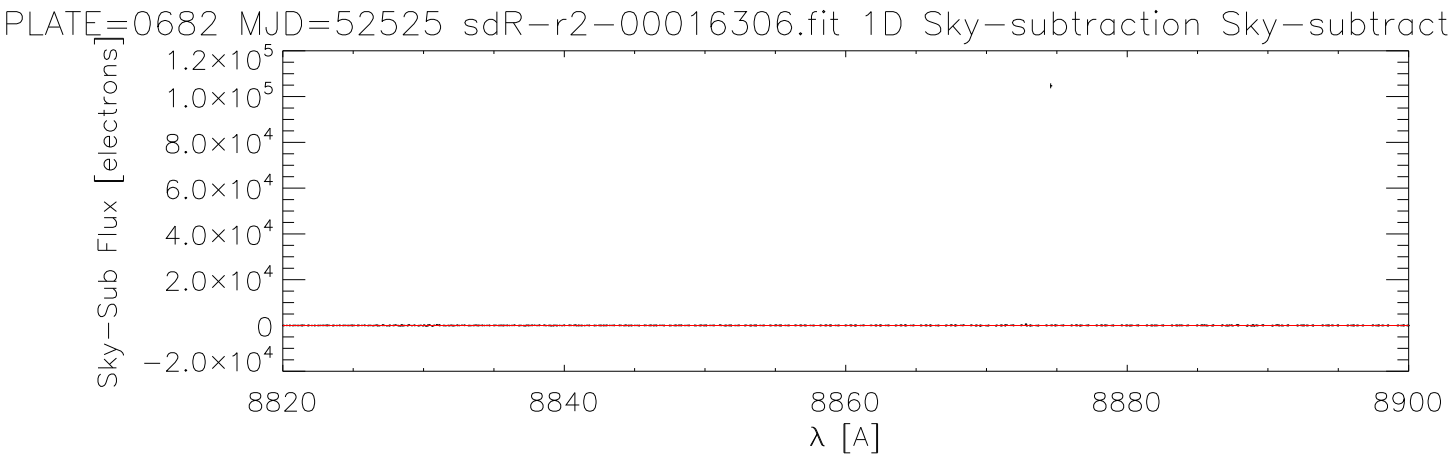

sky shift, pixels
−0.14
−0.16
−0.18
−0.20
−0.22
−0.24
−0.26
5000
6000
7000
8000
9000
10000

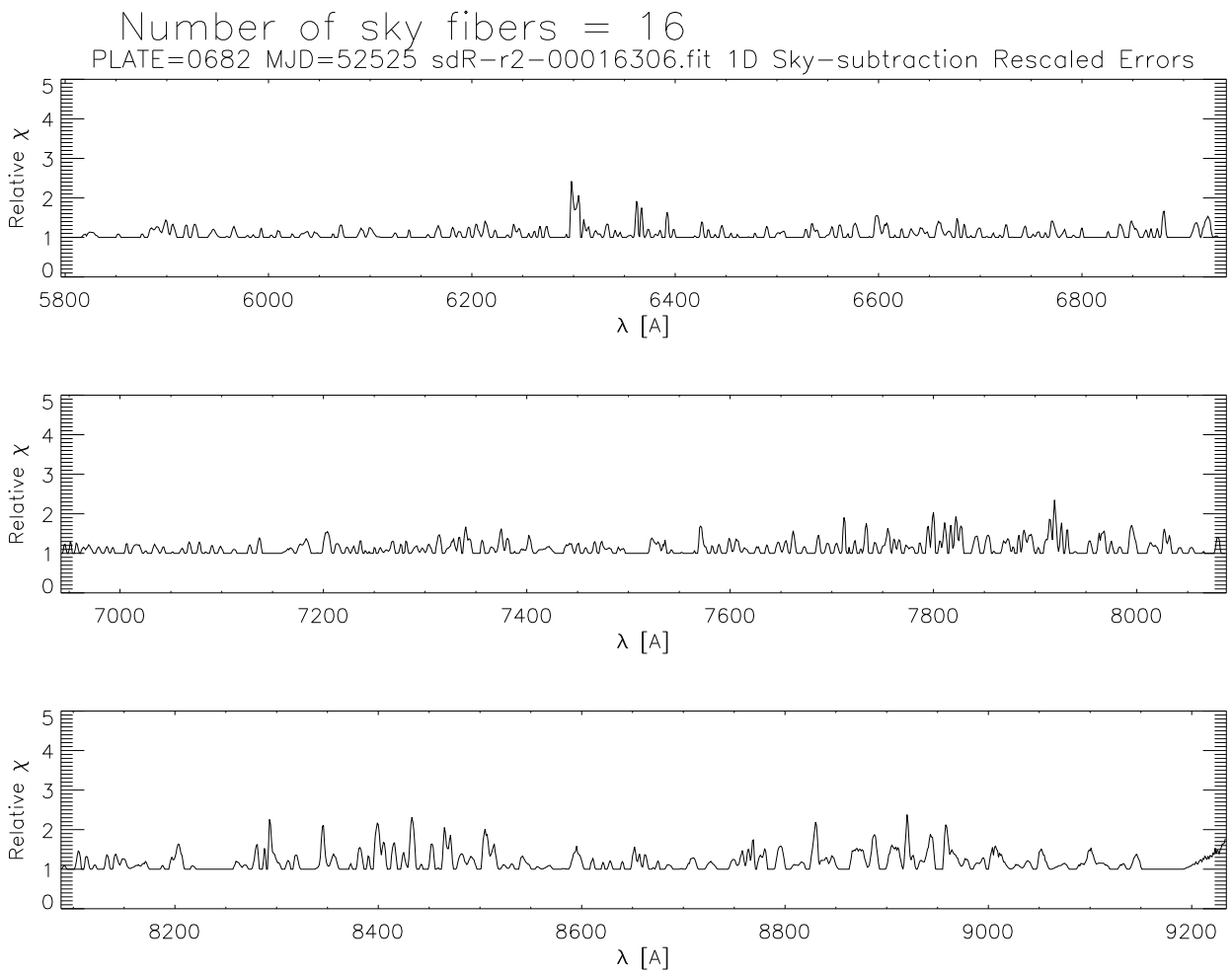

PLATE=0682 MJD=52525 Smooth superflat for sdR-r2-00016306.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

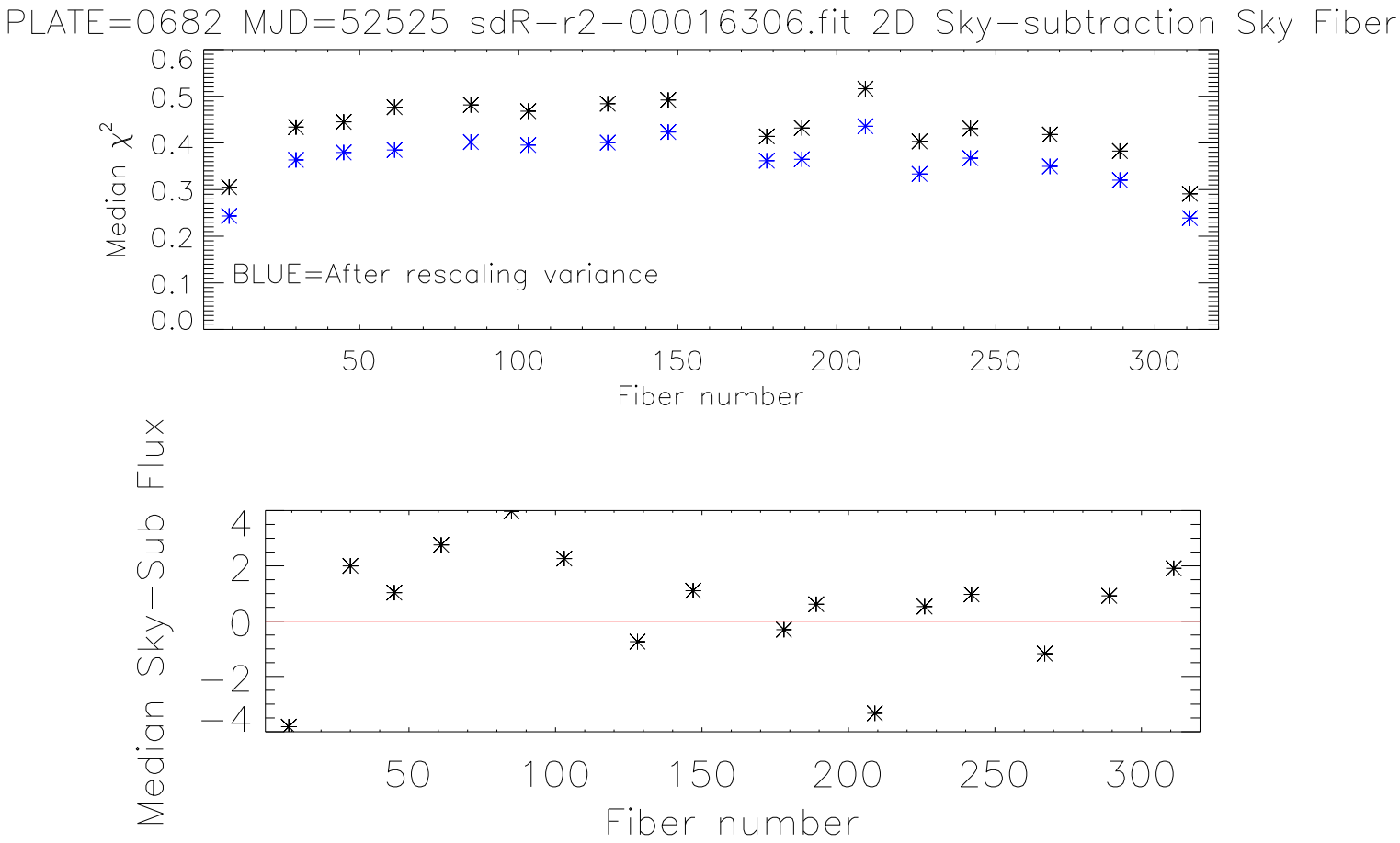
es= −0.0000

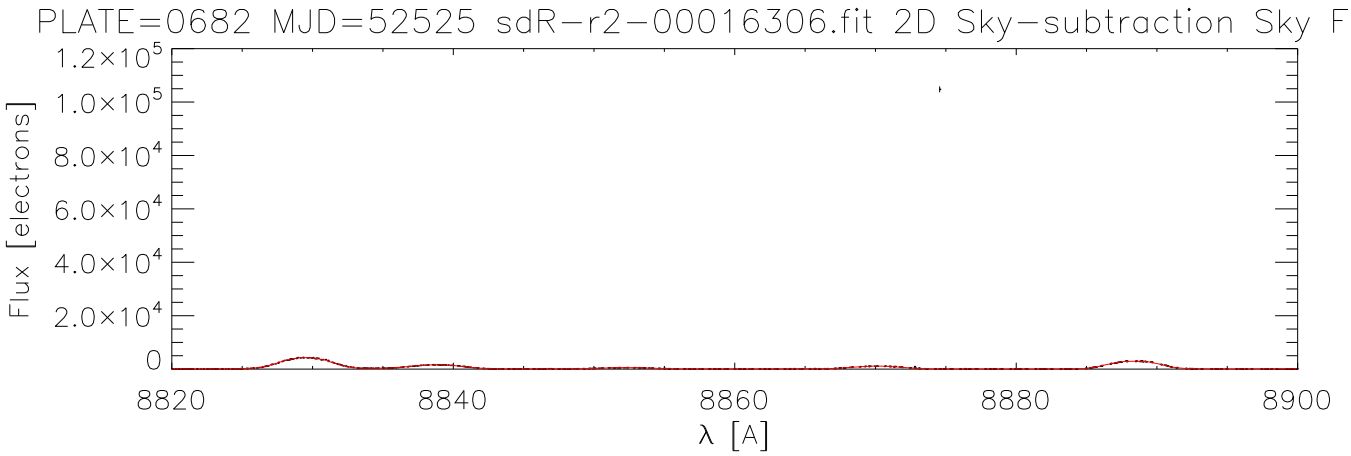

PLATE=0682 MJD=52525 sdR-r2-00016306.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

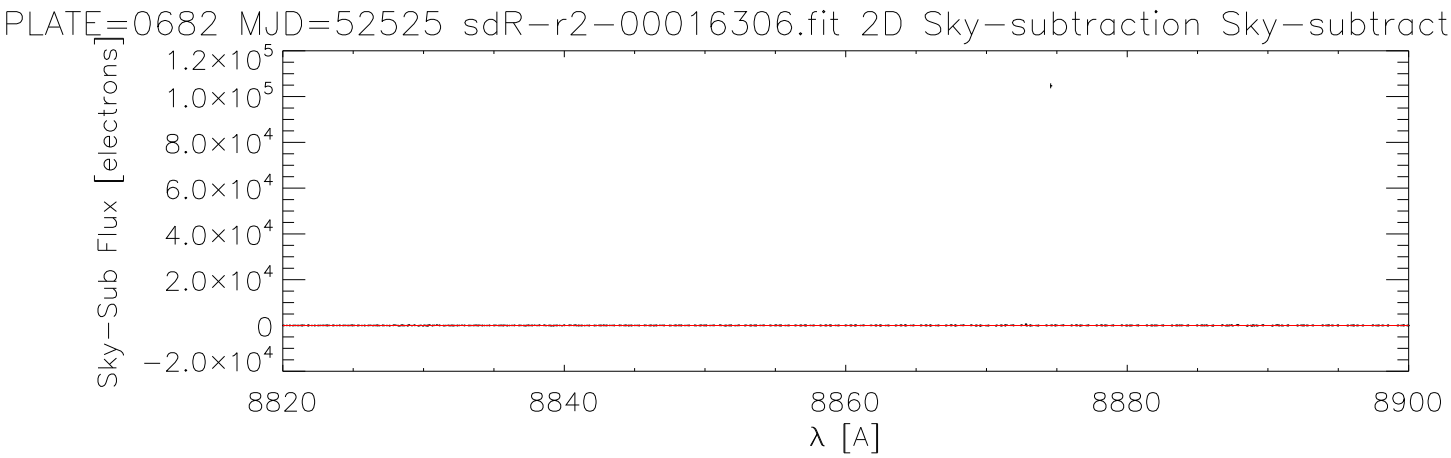

PLATE=0682 MJD=52525 sdR-r2-00016306.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^5
1.0×10^5
8.0×10^4
6.0×10^4
4.0×10^4
2.0×10^4
0
8820
8840
8860
8880
8900
λ [A]

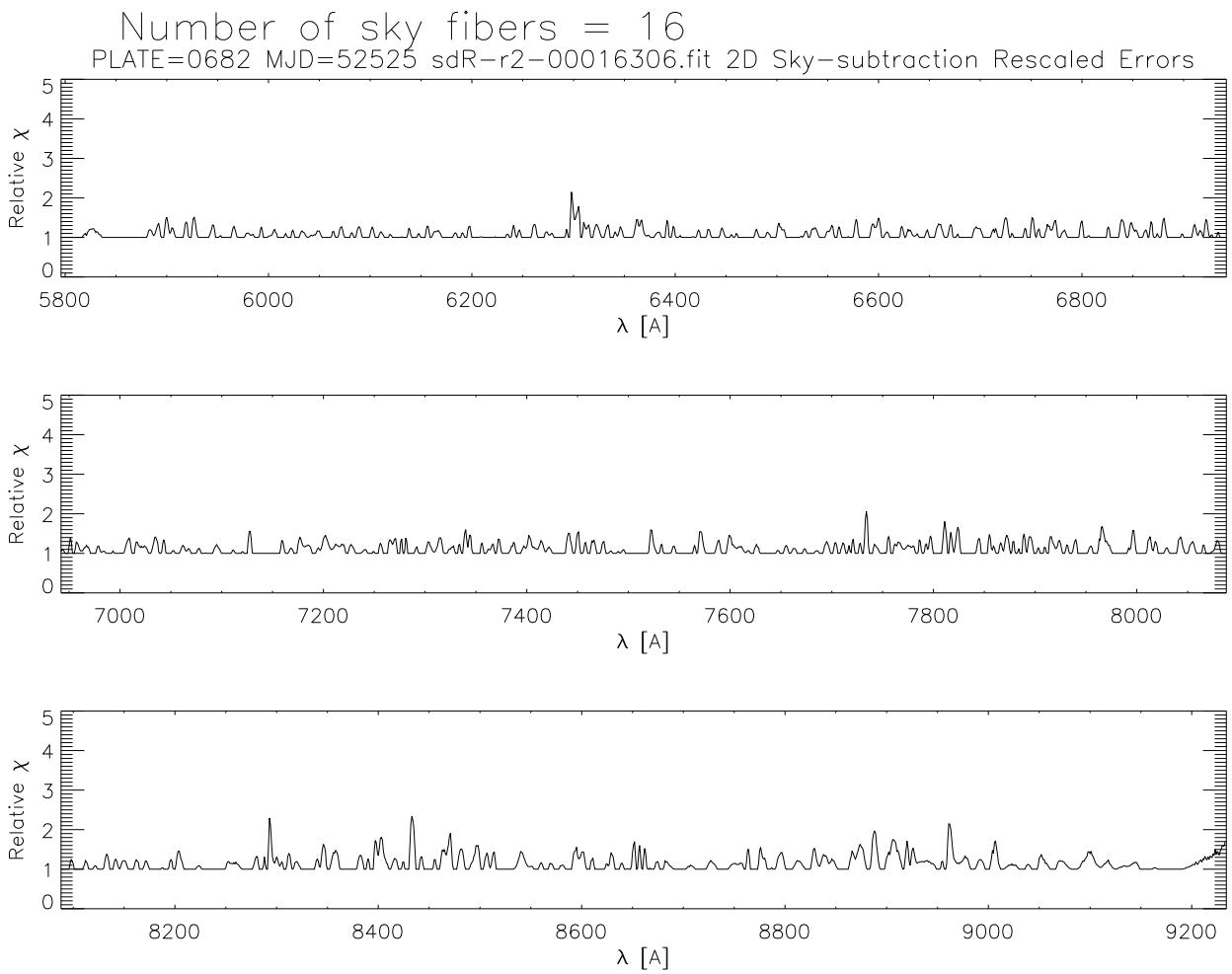

PLATE=0682 MJD=52525 sdR-r2-00016306.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.2×10^5
1.0×10^5
8.0×10^4
6.0×10^4
4.0×10^4
2.0×10^4
0
-2.0×10^4
8820
8840
8860
8880
8900
λ [A]

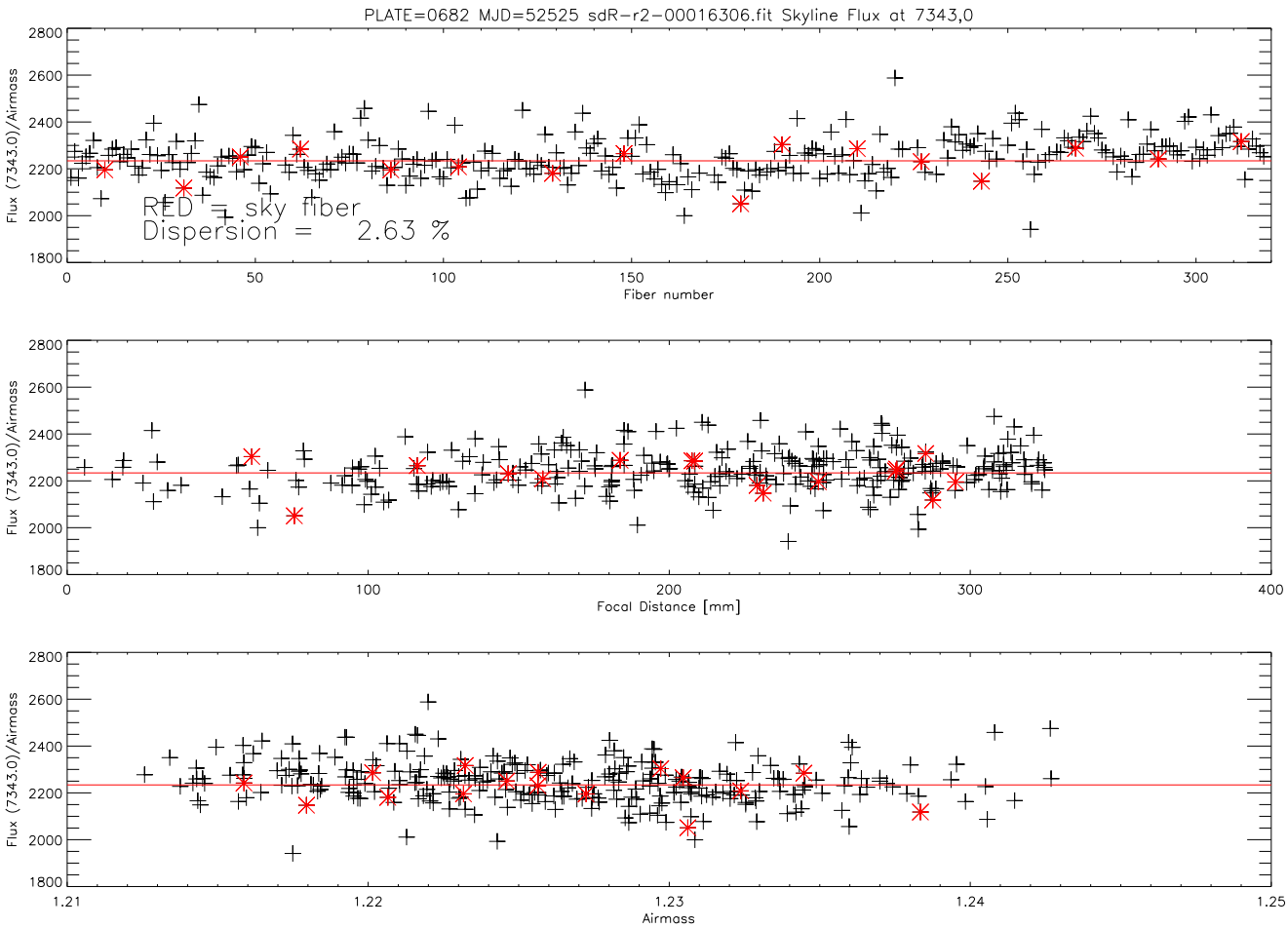

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r2-00016306.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

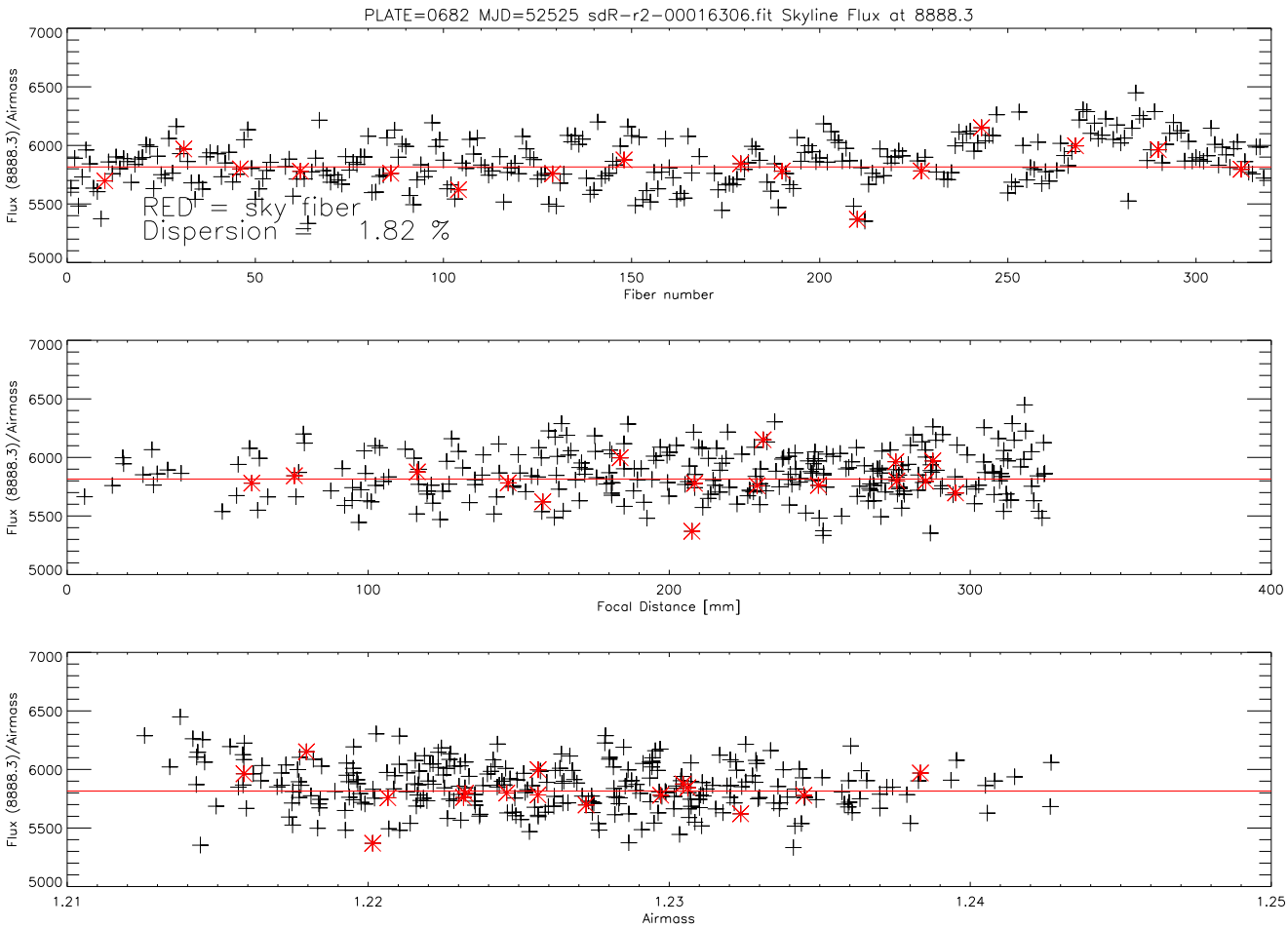

PLATE=0682 MJD=52525 sdR-r2-00016306.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

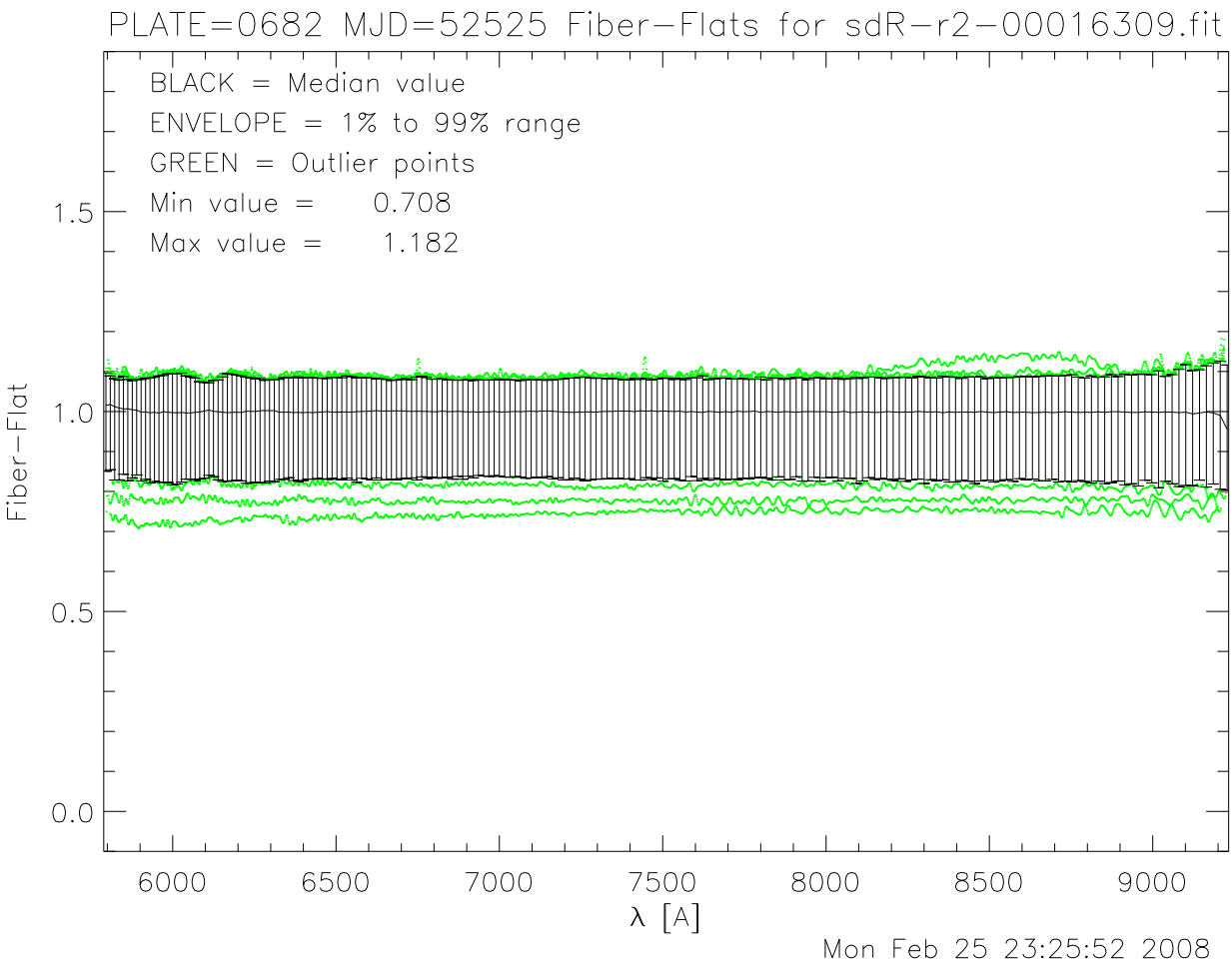

PLATE=0682 MJD=52525 sdR-r2-00016306.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^5
1.0×10^5
8.0×10^4
6.0×10^4
4.0×10^4
2.0×10^4
0
8820
8840
8860
8880
8900
λ [A]

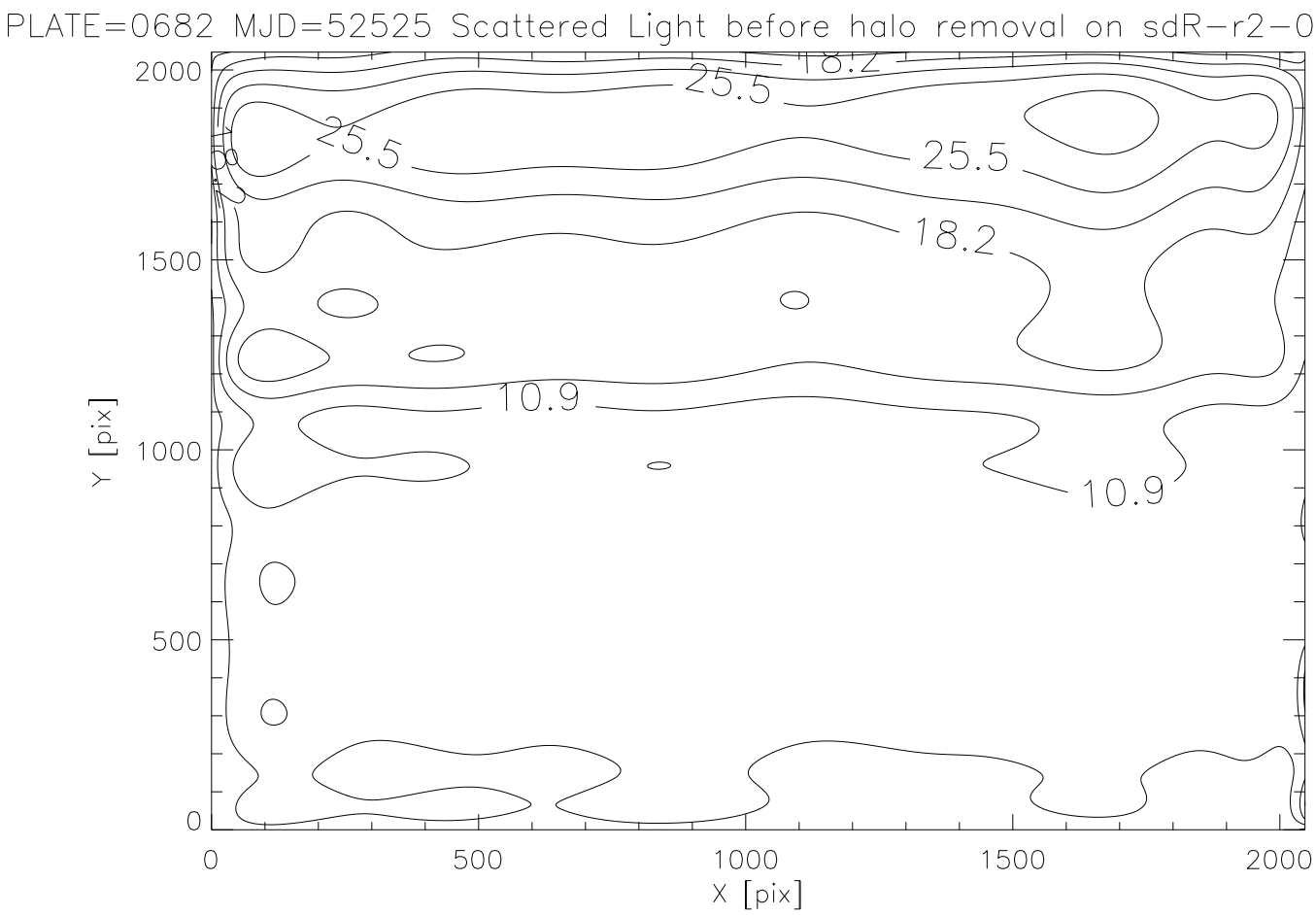

PLATE=0682 MJD=52525 sdR-r2-00016306.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.2×10^5
1.0×10^5
8.0×10^4
6.0×10^4
4.0×10^4
2.0×10^4
0
-2.0×10^4
8820
8840
8860
8880
8900
λ [A]

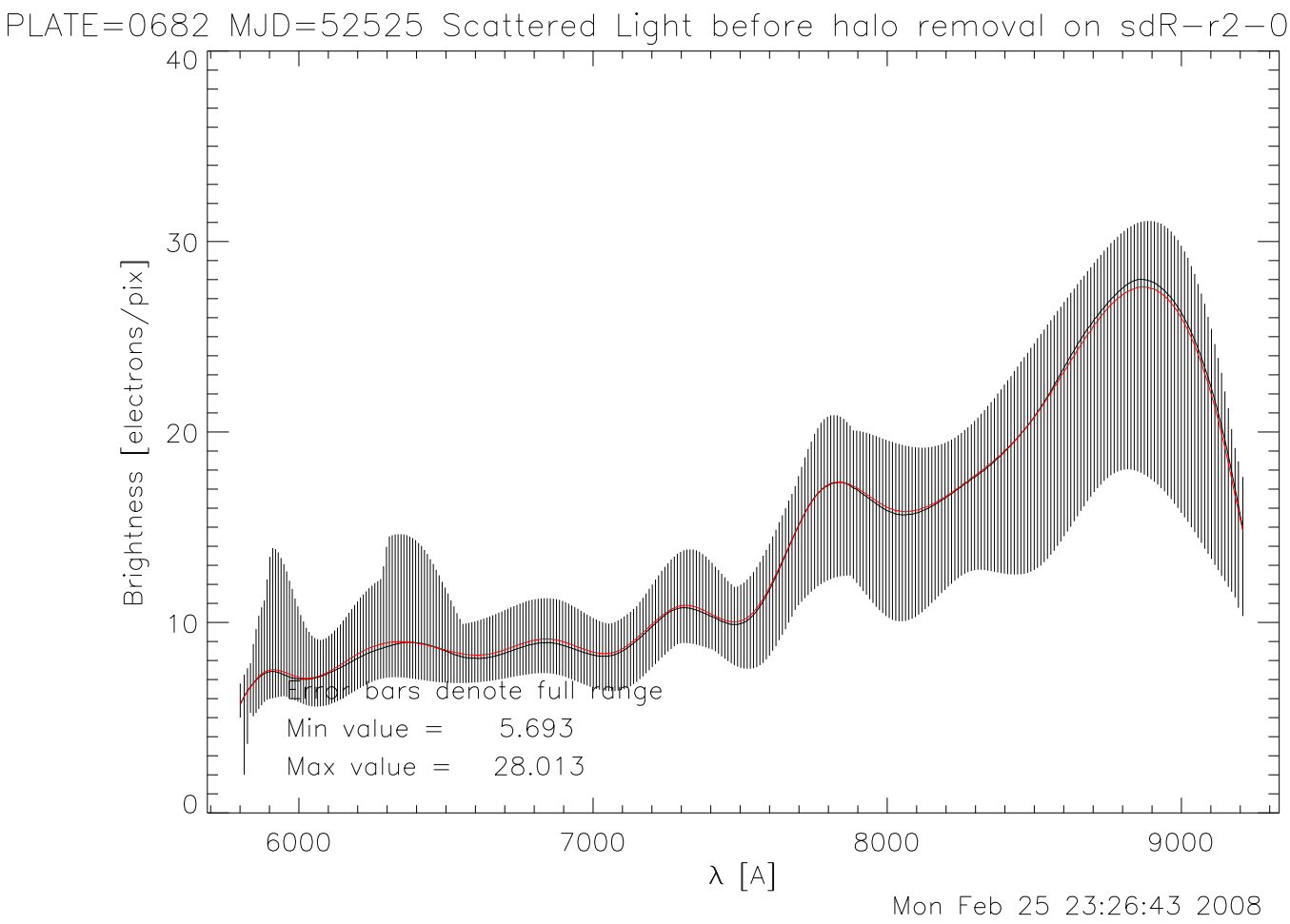

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r2-00016306.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

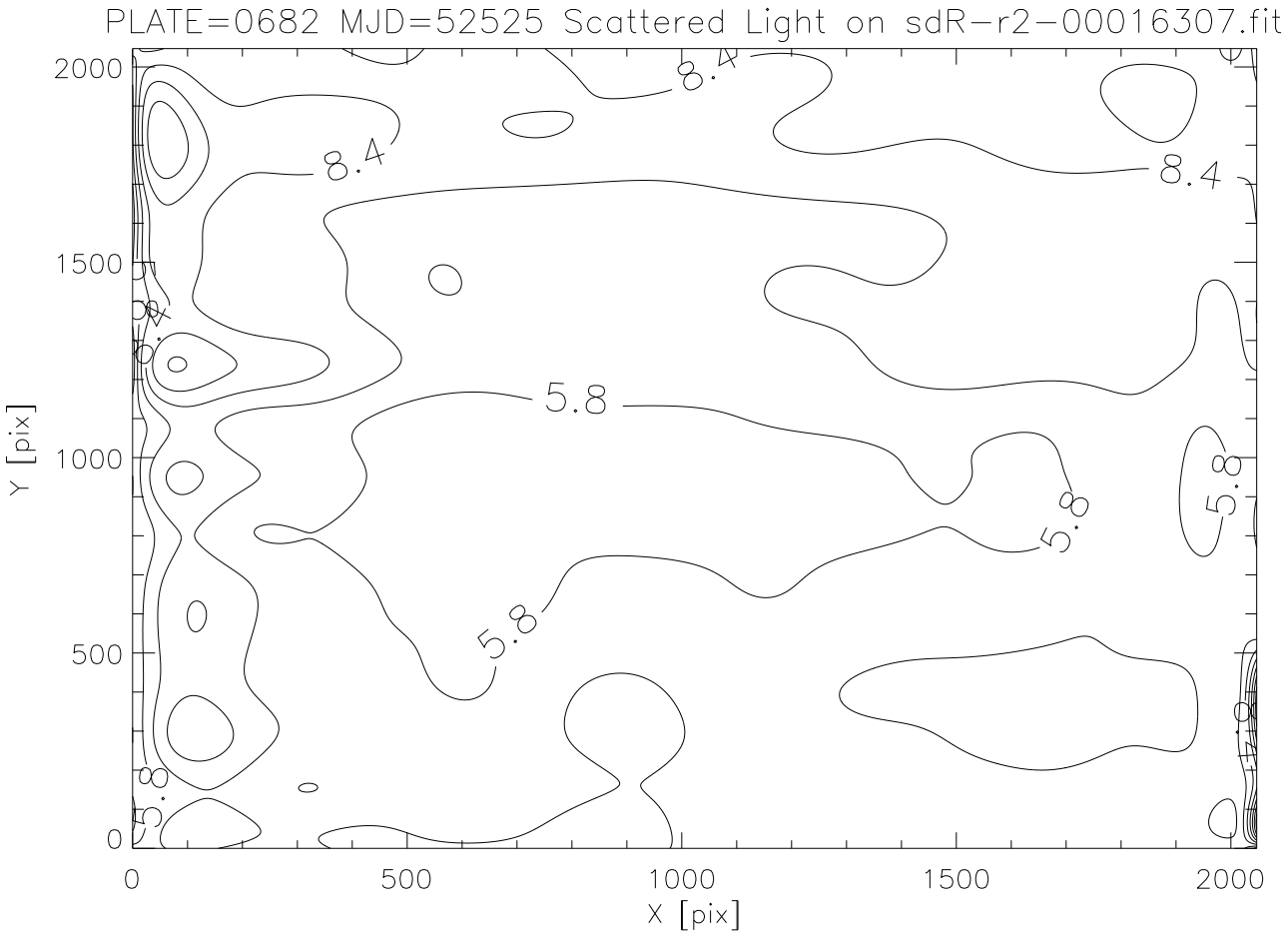

PLATE=0682 MJD=52525 sdR-r2-00016306.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.63 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

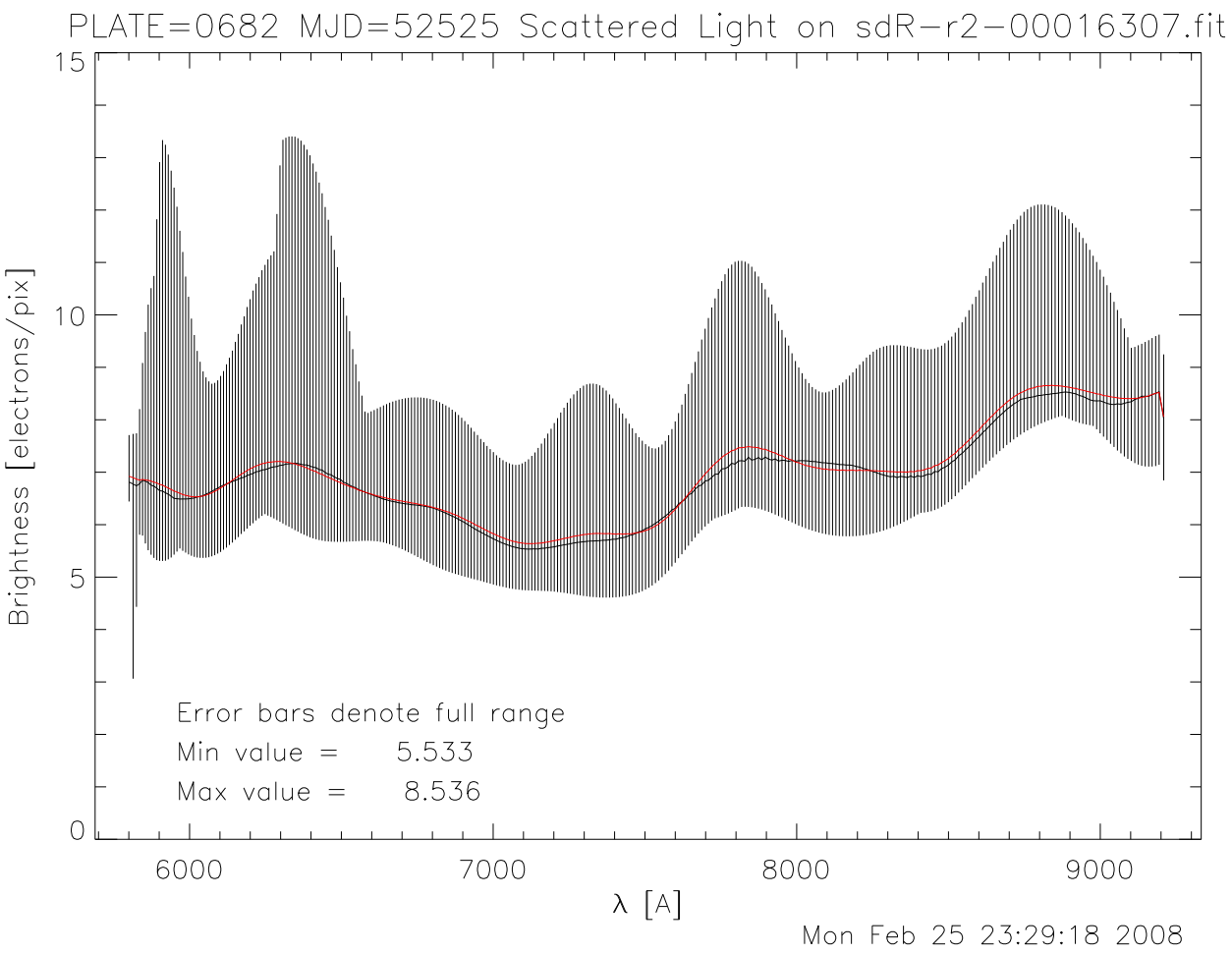

PLATE=0682 MJD=52525 sdR-r2-00016306.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.82 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

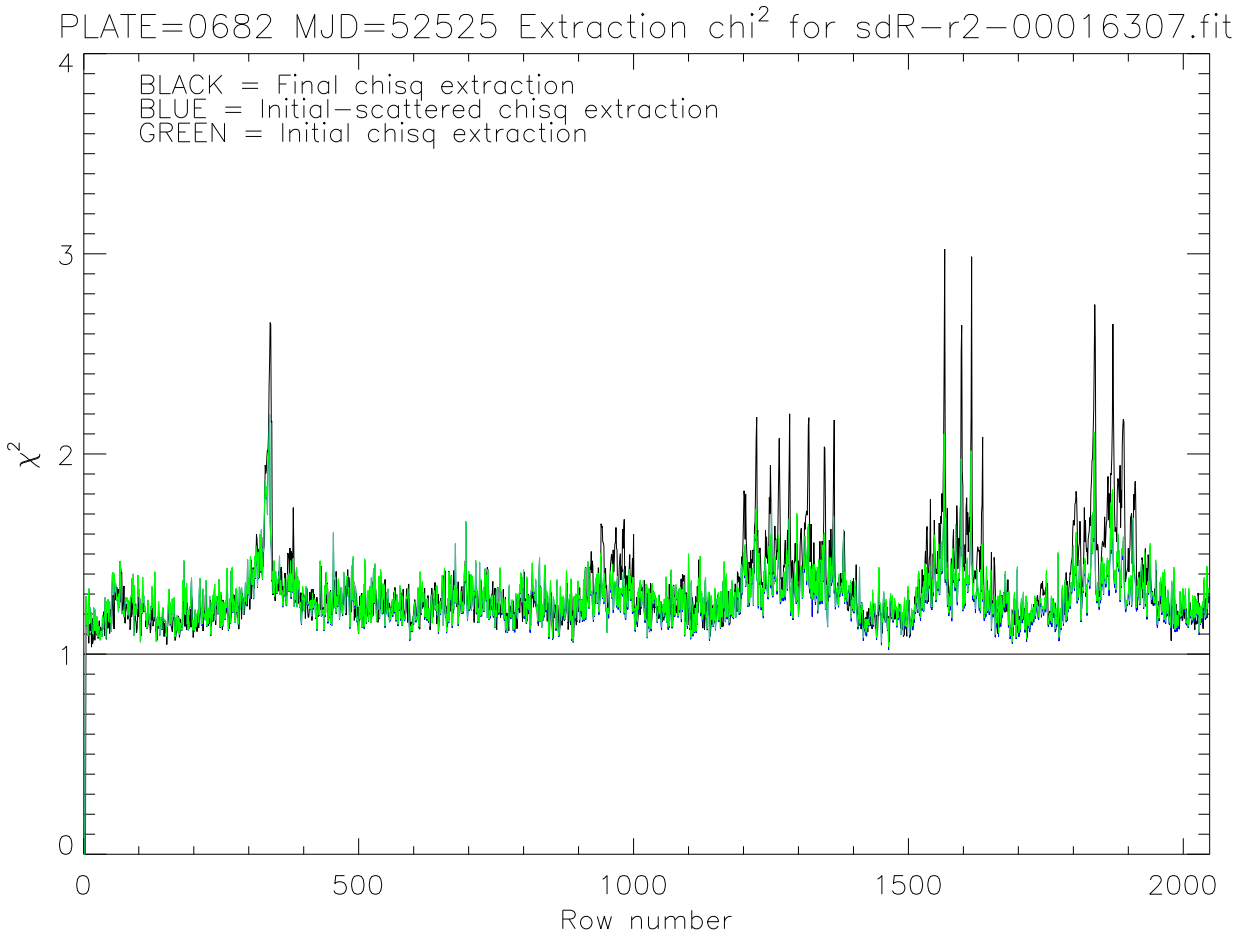

PLATE=0682 MJD=52525 Fiber−Flats for sdR−r2−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.708
Max value = 1.182
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 23:25:52 2008

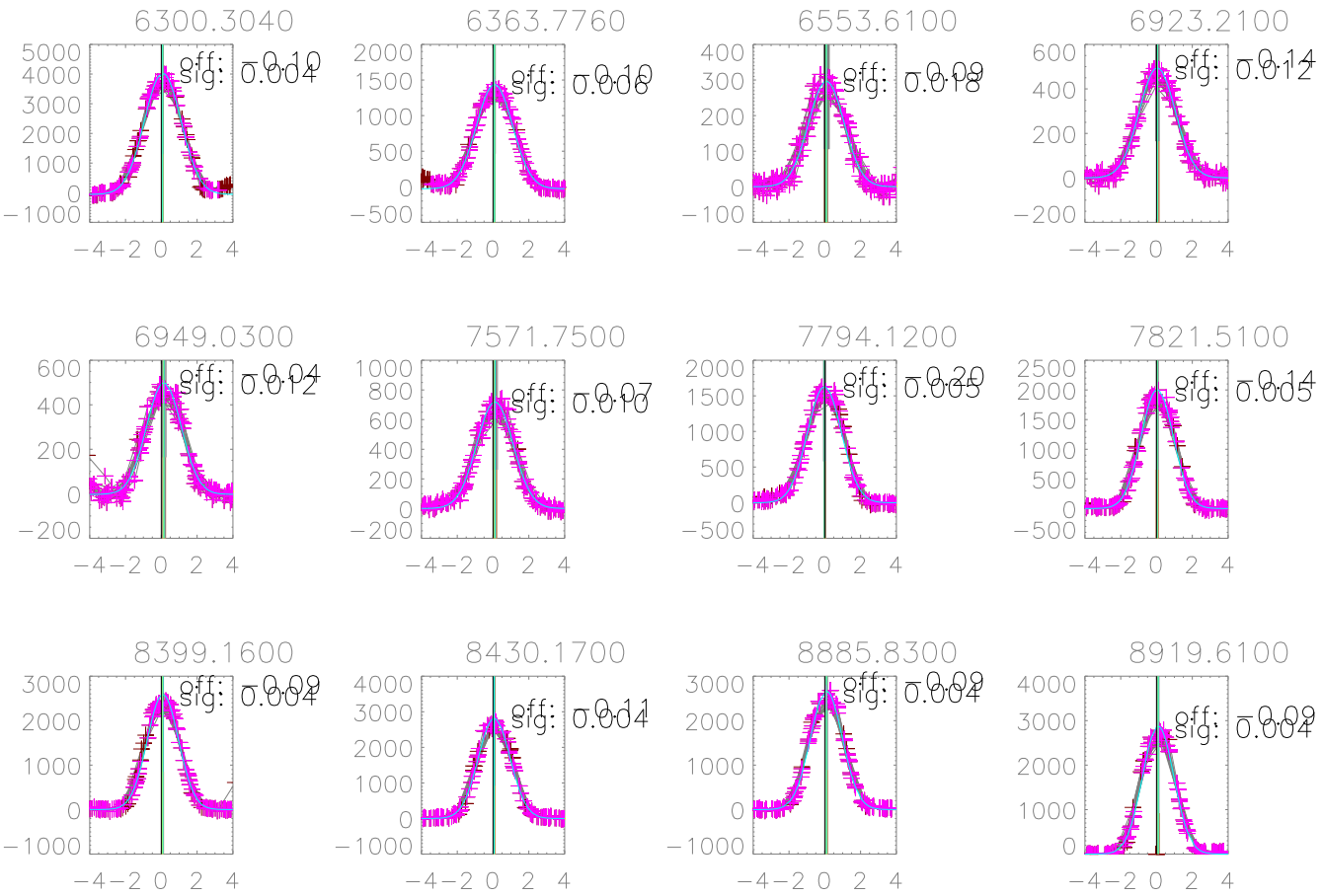

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r2-00016307.fi
25.5
25.5
25.5
18.2
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

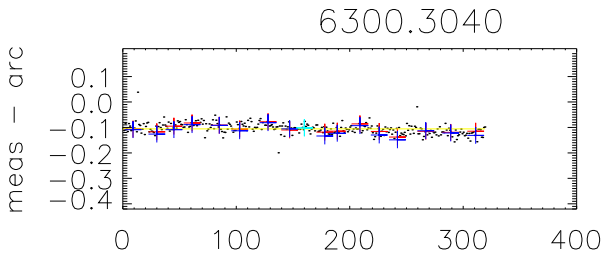

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r2-00016307.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.693
Max value = 28.013
Mon Feb 25 23:26:43 2008

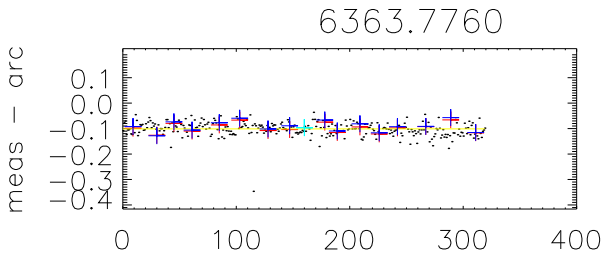

PLATE=0682 MJD=52525 Scattered Light on sdR-r2-00016307.fit
8.4
8.4
8.4
5.8
5.8
5.8
5.8
5.8
0
0
0
Y [pix]
X [pix]
0
500
1000
1500
2000

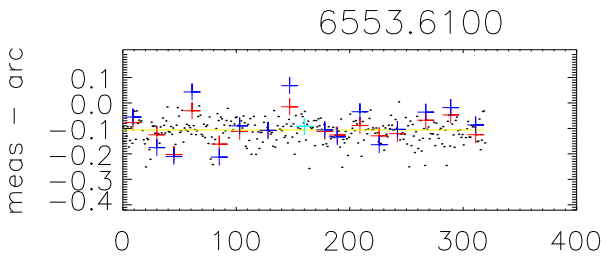

PLATE=0682 MJD=52525 Scattered Light on sdR-r2-00016307.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.533
Max value = 8.536
Mon Feb 25 23:29:18 2008

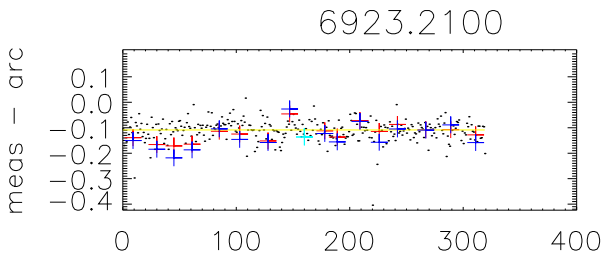

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR−r2−00016307.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
0
1
2
3
4
0
500
1000
1500
2000
Row number

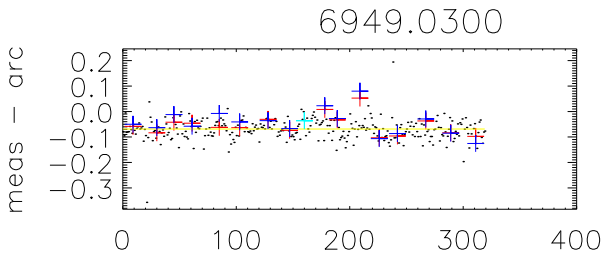

6300.3040
off: −0.10
sig: 0.004
6363.7760
off: −0.10
sig: 0.006
6553.6100
off: −0.09
sig: 0.018
6923.2100
off: −0.14
sig: 0.012
6949.0300
off: −0.04
sig: 0.012
7571.7500
off: −0.07
sig: 0.010
7794.1200
off: −0.20
sig: 0.005
7821.5100
off: −0.14
sig: 0.005
8399.1600
off: −0.09
sig: 0.004
8430.1700
off: −0.11
sig: 0.004
8885.8300
off: −0.09
sig: 0.004
8919.6100
off: −0.09
sig: 0.004

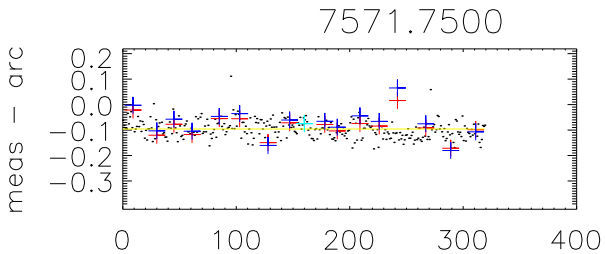

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

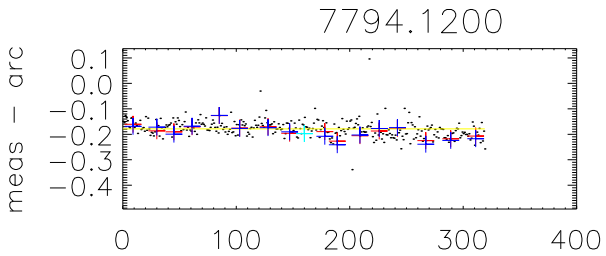

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

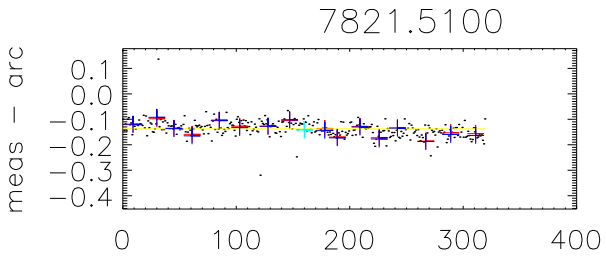

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

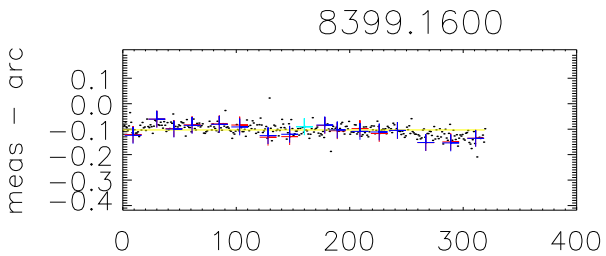

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

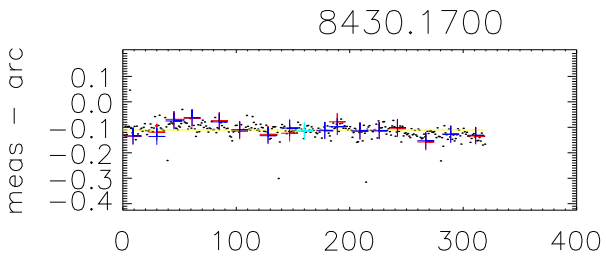

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

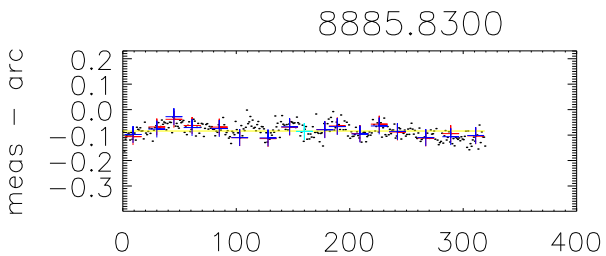

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

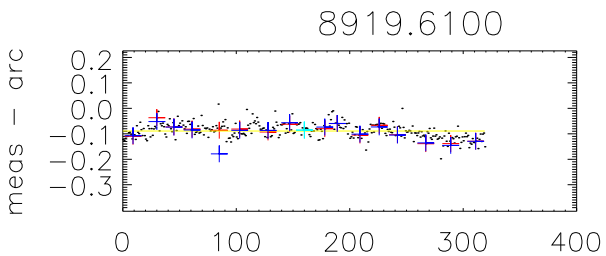

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

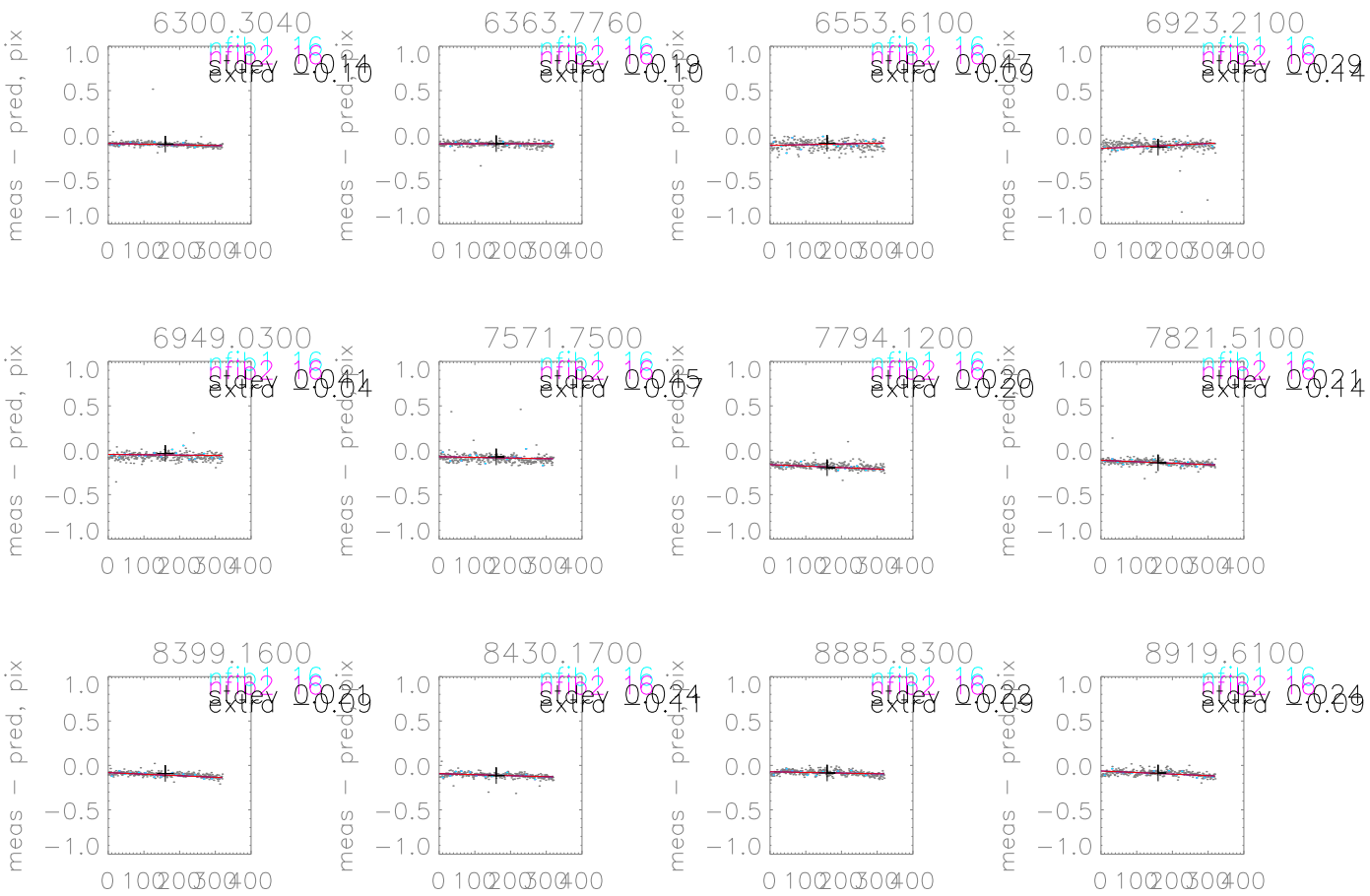

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

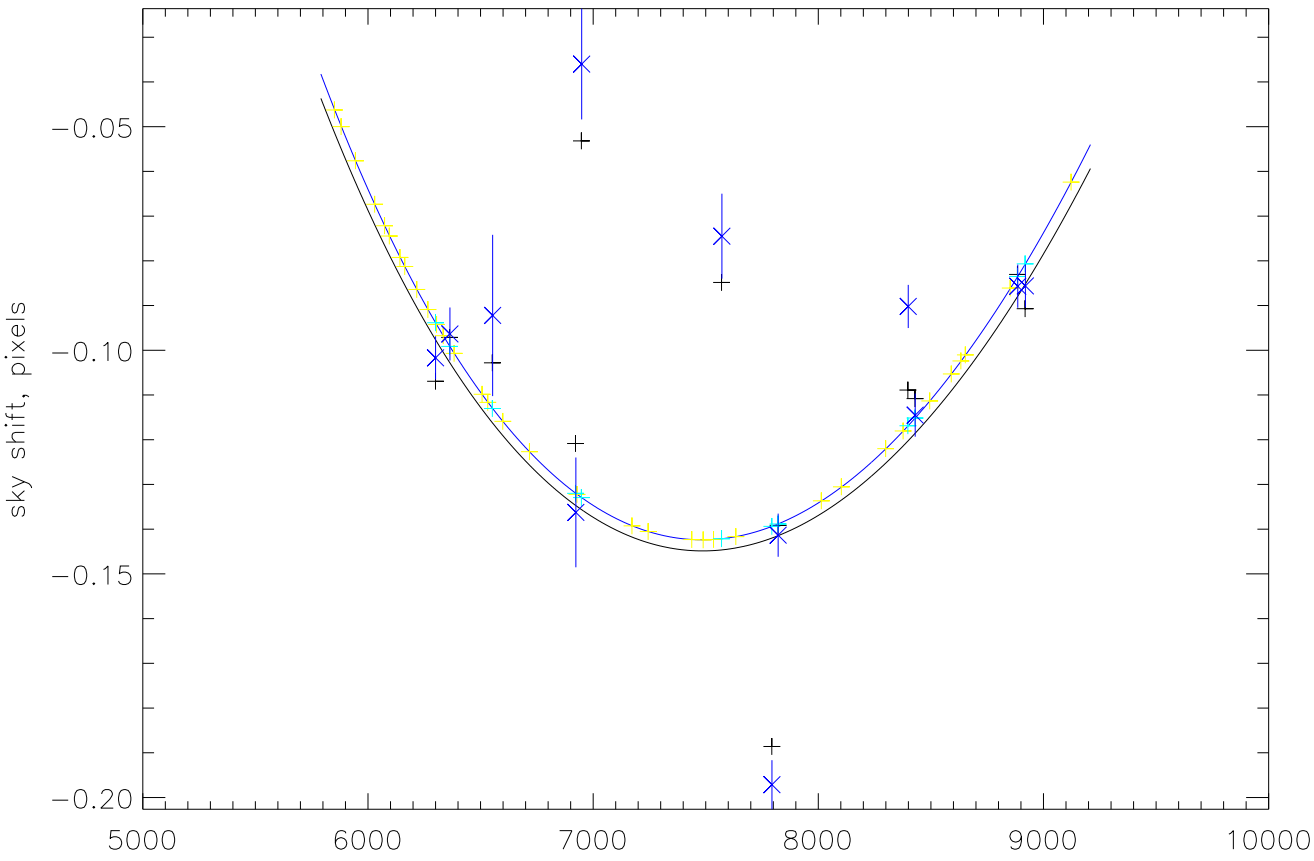

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

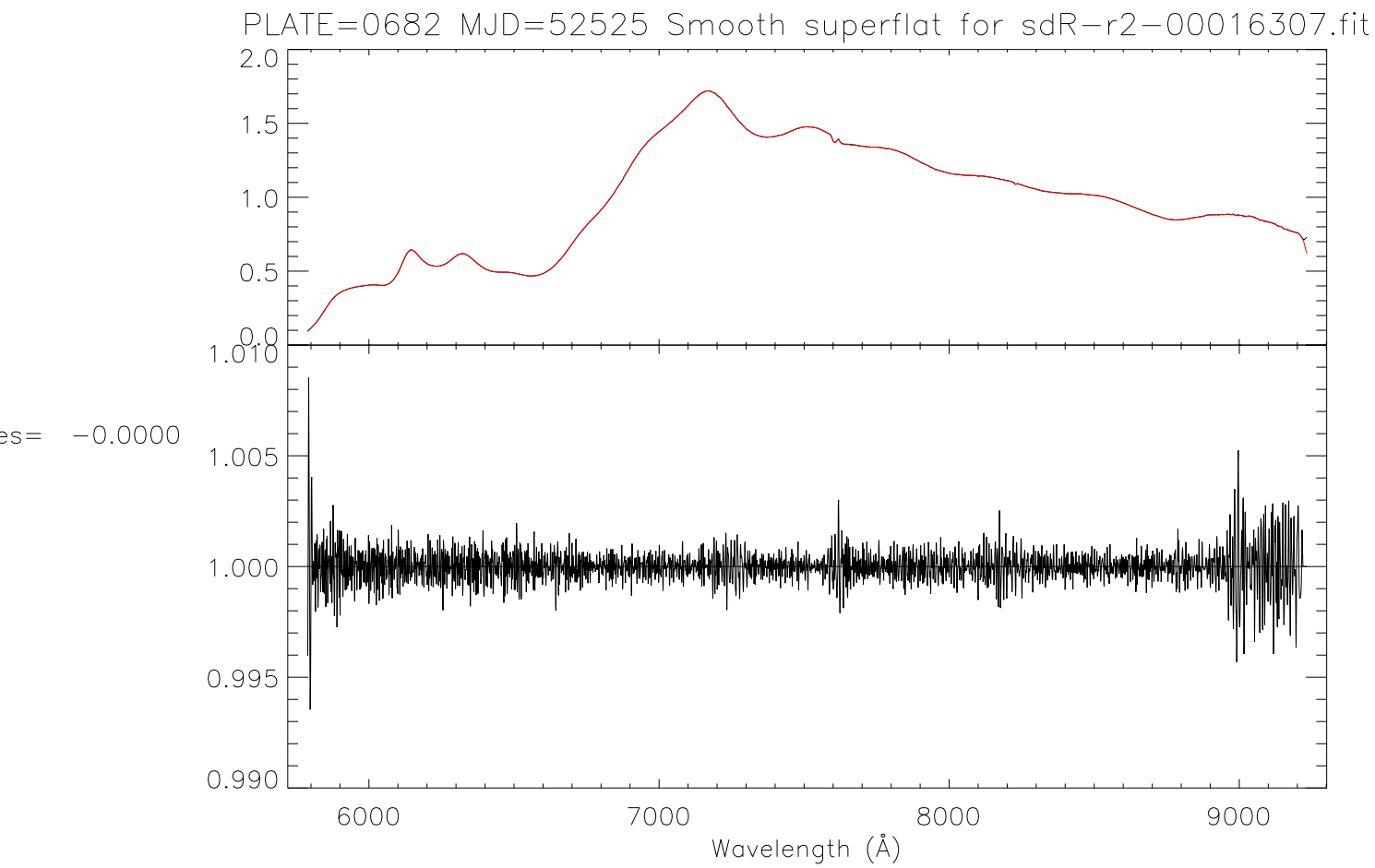

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

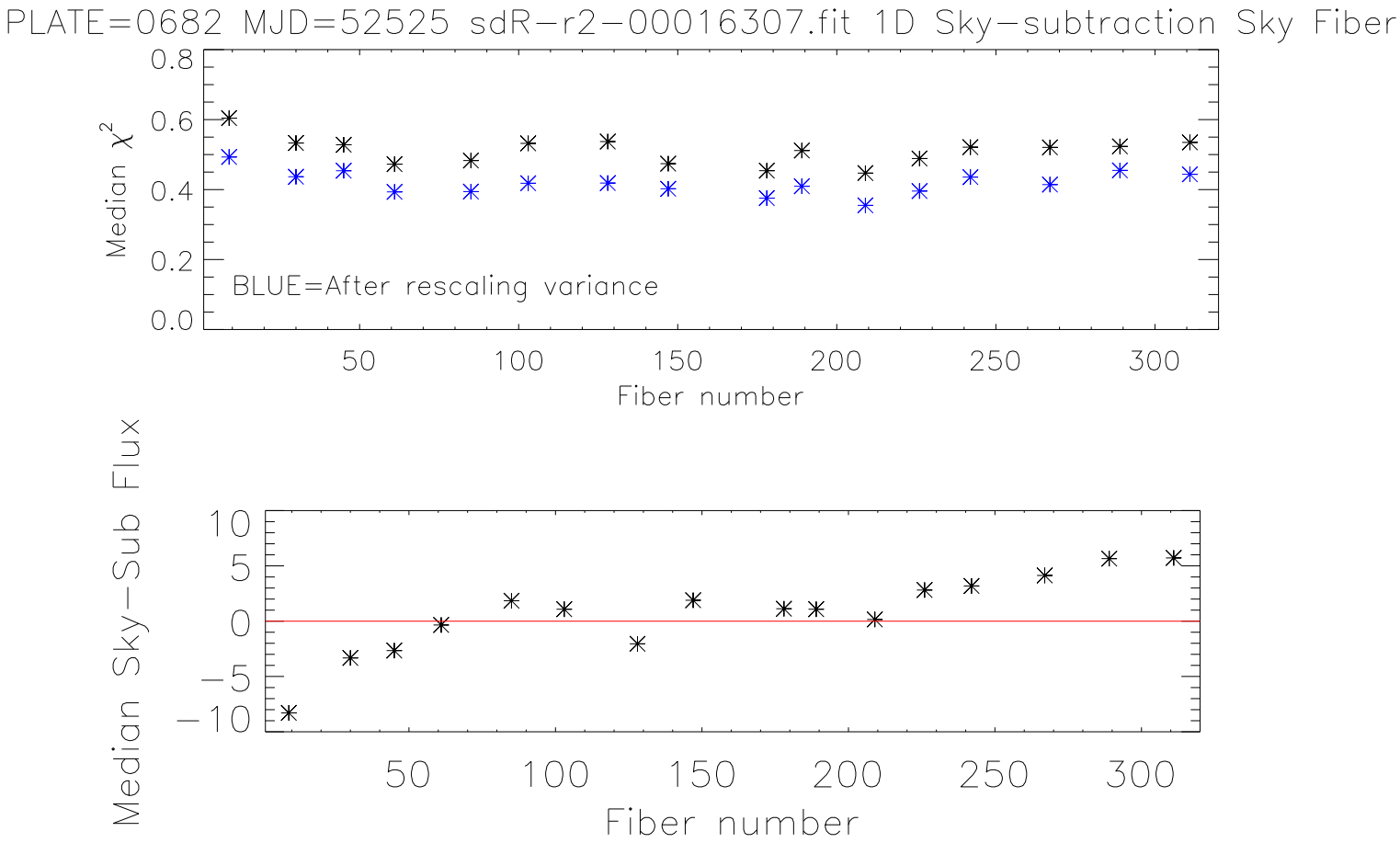

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

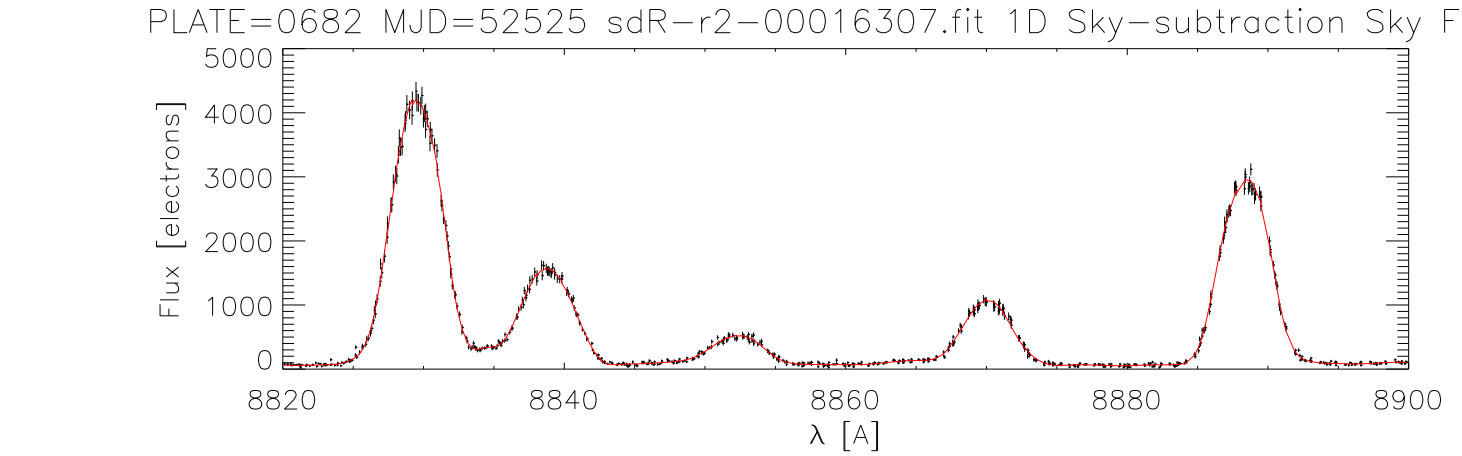

6300.3040
stdev 0.14
extra 0.10
6363.7760
stdev 0.19
extra 0.10
6553.6100
stdev 0.17
extra 0.09
6923.2100
stdev 0.29
extra 0.14
6949.0300
stdev 0.41
extra 0.04
7571.7500
stdev 0.45
extra 0.07
7794.1200
stdev 0.30
extra 0.20
7821.5100
stdev 0.21
extra 0.14
8399.1600
stdev 0.21
extra 0.09
8430.1700
stdev 0.24
extra 0.11
8885.8300
stdev 0.22
extra 0.09
8919.6100
stdev 0.24
extra 0.09
meas − pred, pix
mfhd2 16

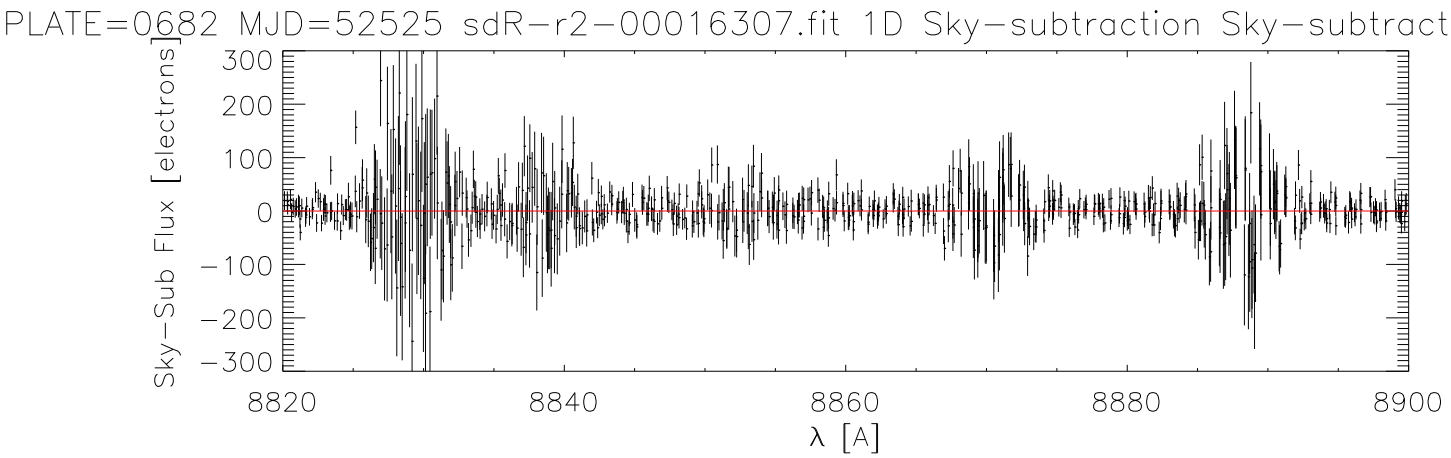

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
5000
6000
7000
8000
9000
10000

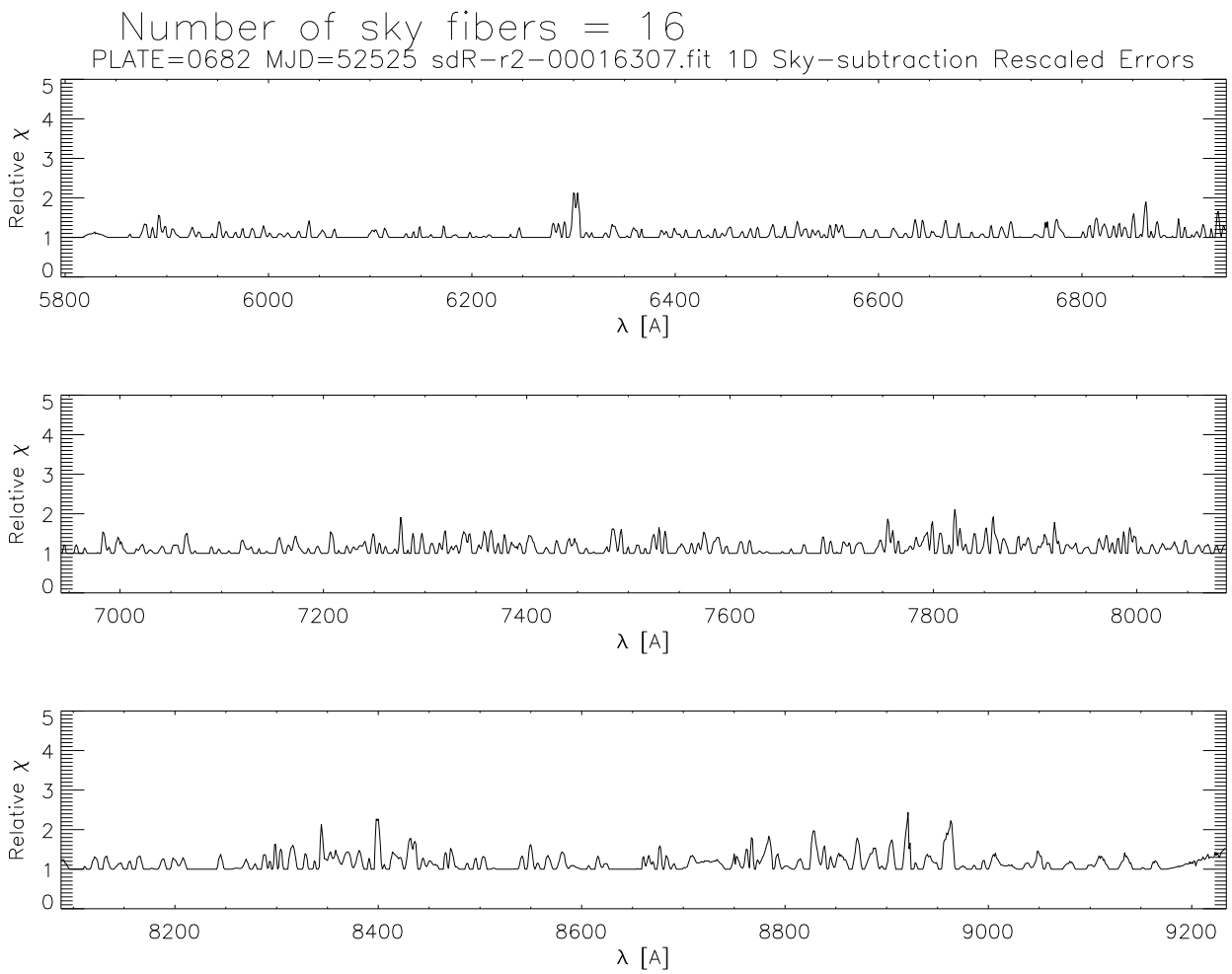

PLATE=0682 MJD=52525 Smooth superflat for sdR-r2-00016307.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

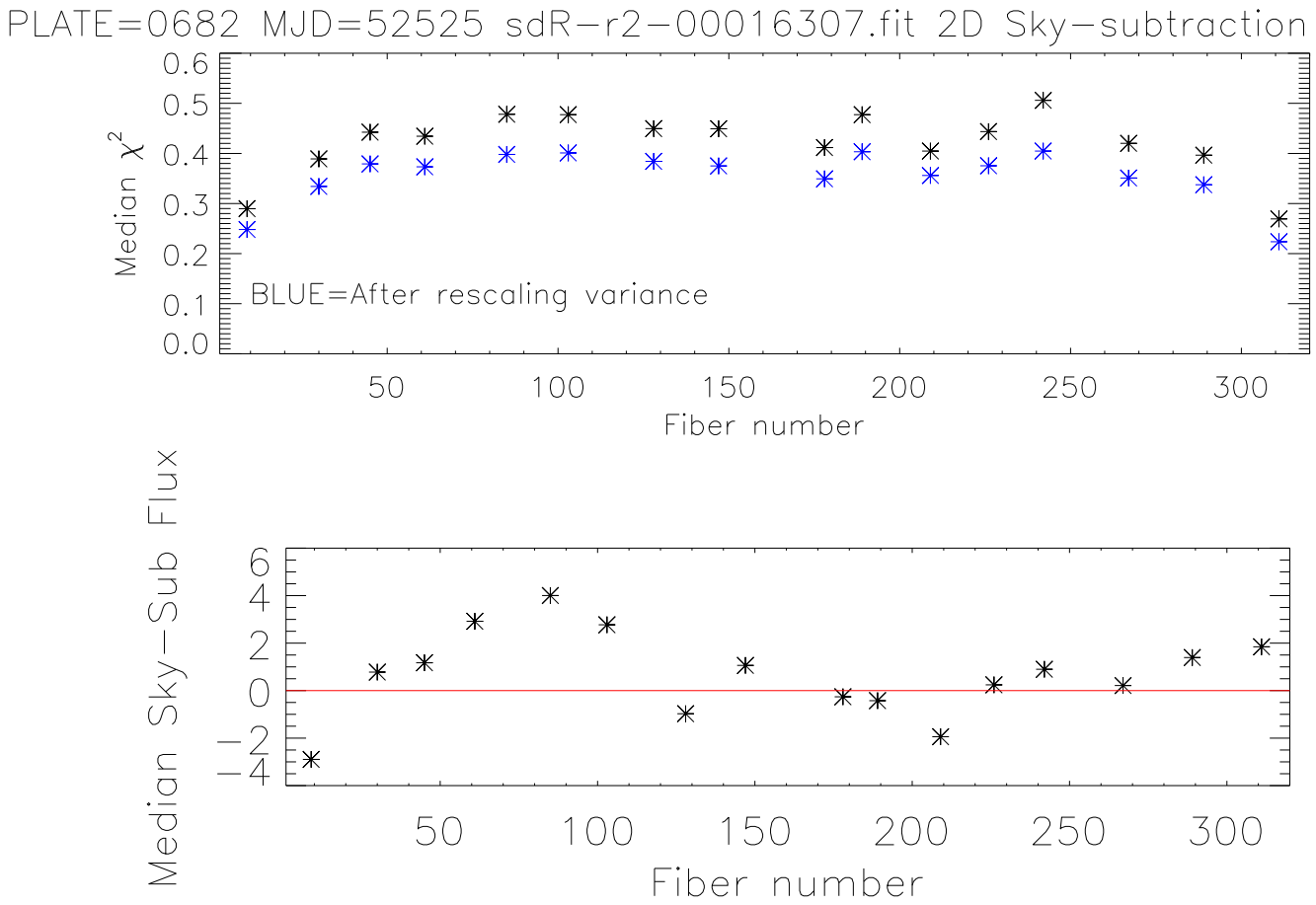
es= −0.0000

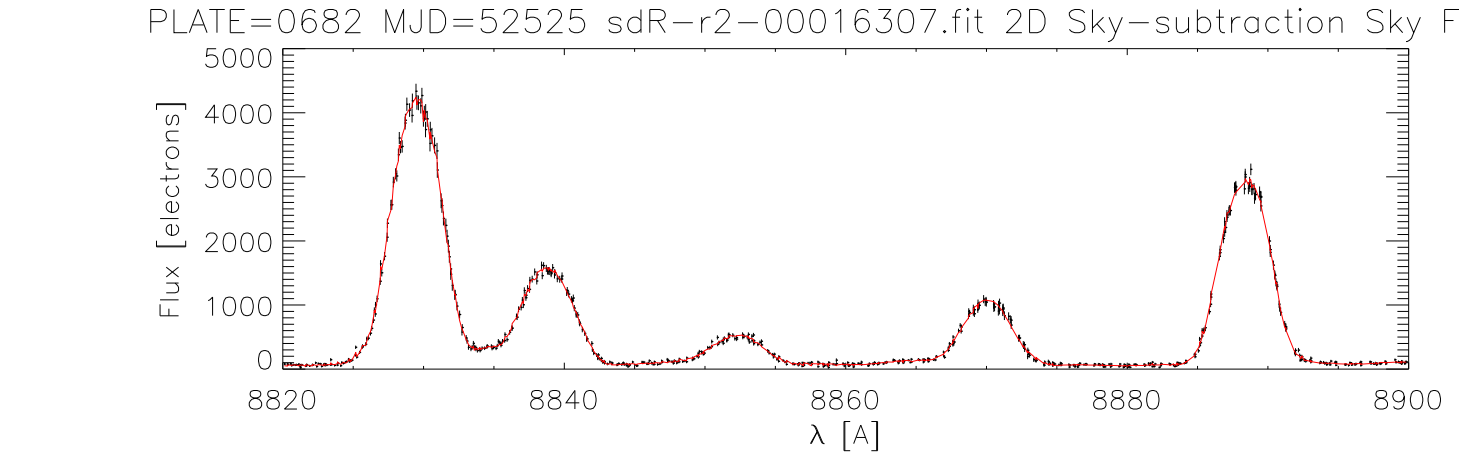

PLATE=0682 MJD=52525 sdR-r2-00016307.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

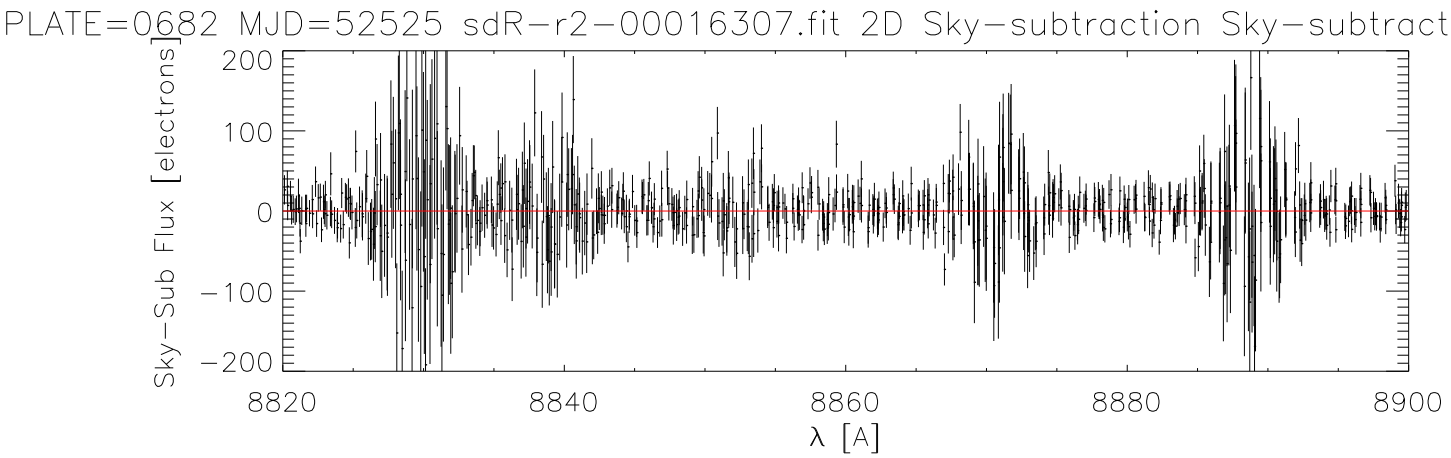

PLATE=0682 MJD=52525 sdR-r2-00016307.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

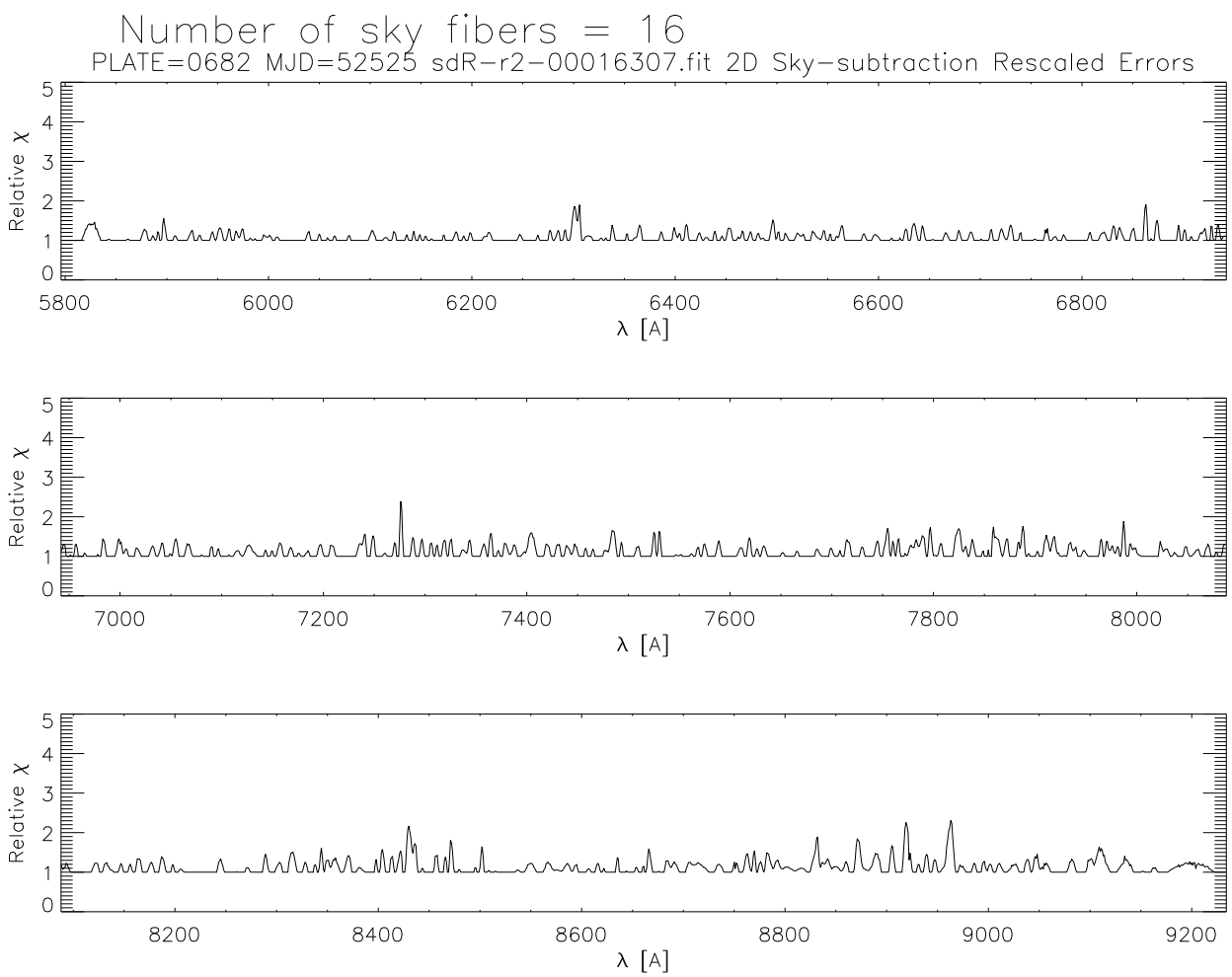

PLATE=0682 MJD=52525 sdR-r2-00016307.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

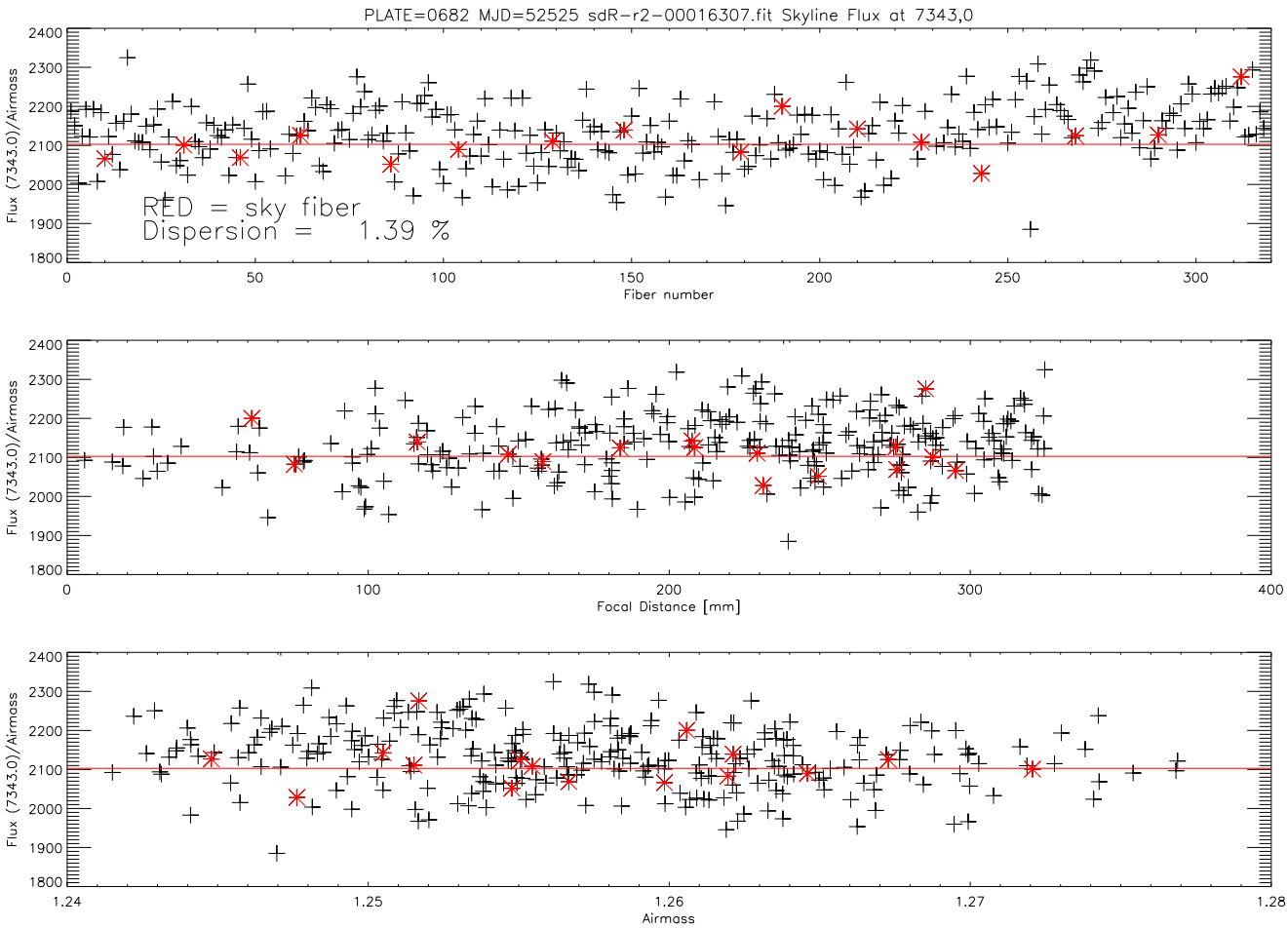

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r2-00016307.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

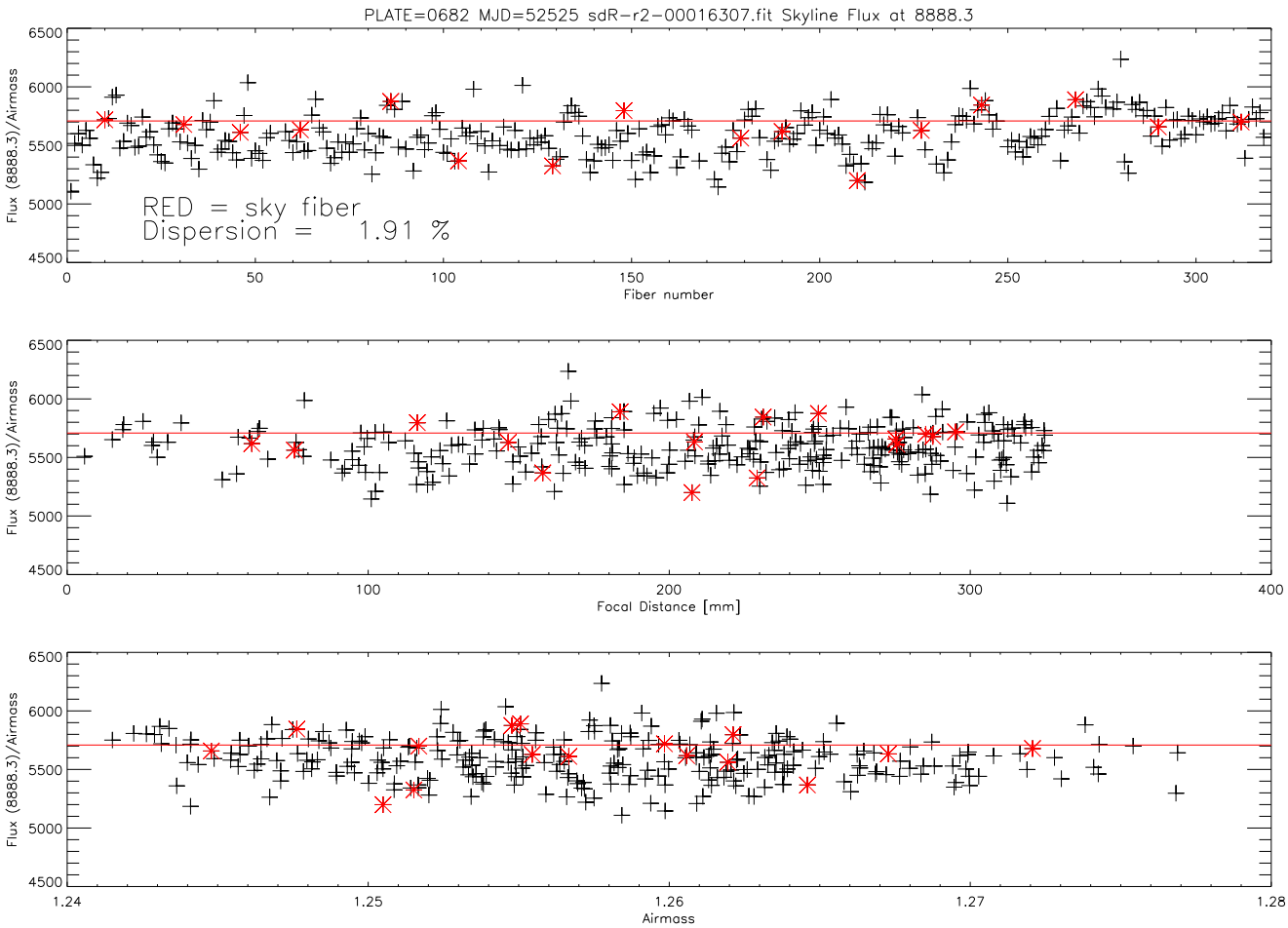

PLATE=0682 MJD=52525 sdR-r2-00016307.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

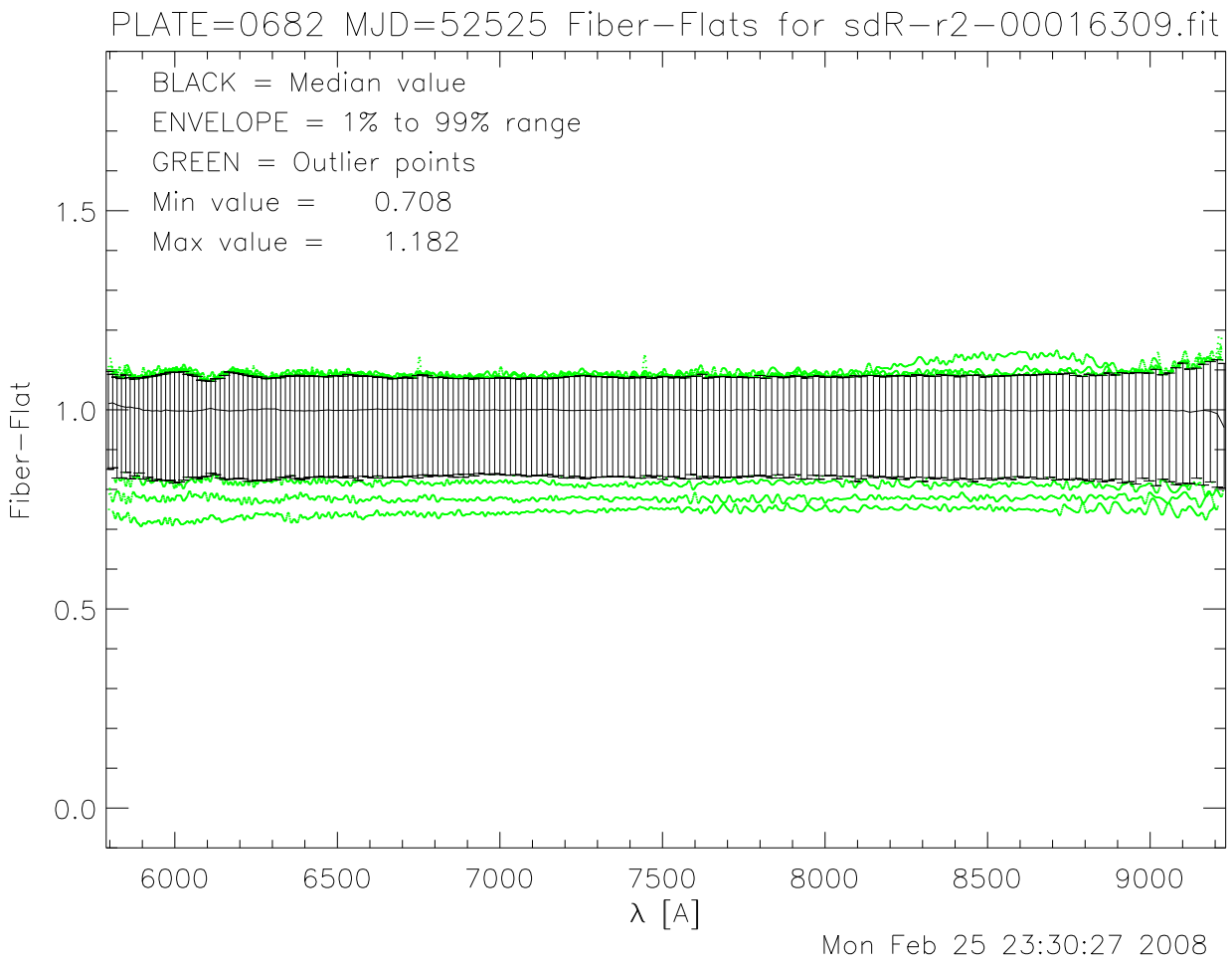

PLATE=0682 MJD=52525 sdR-r2-00016307.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

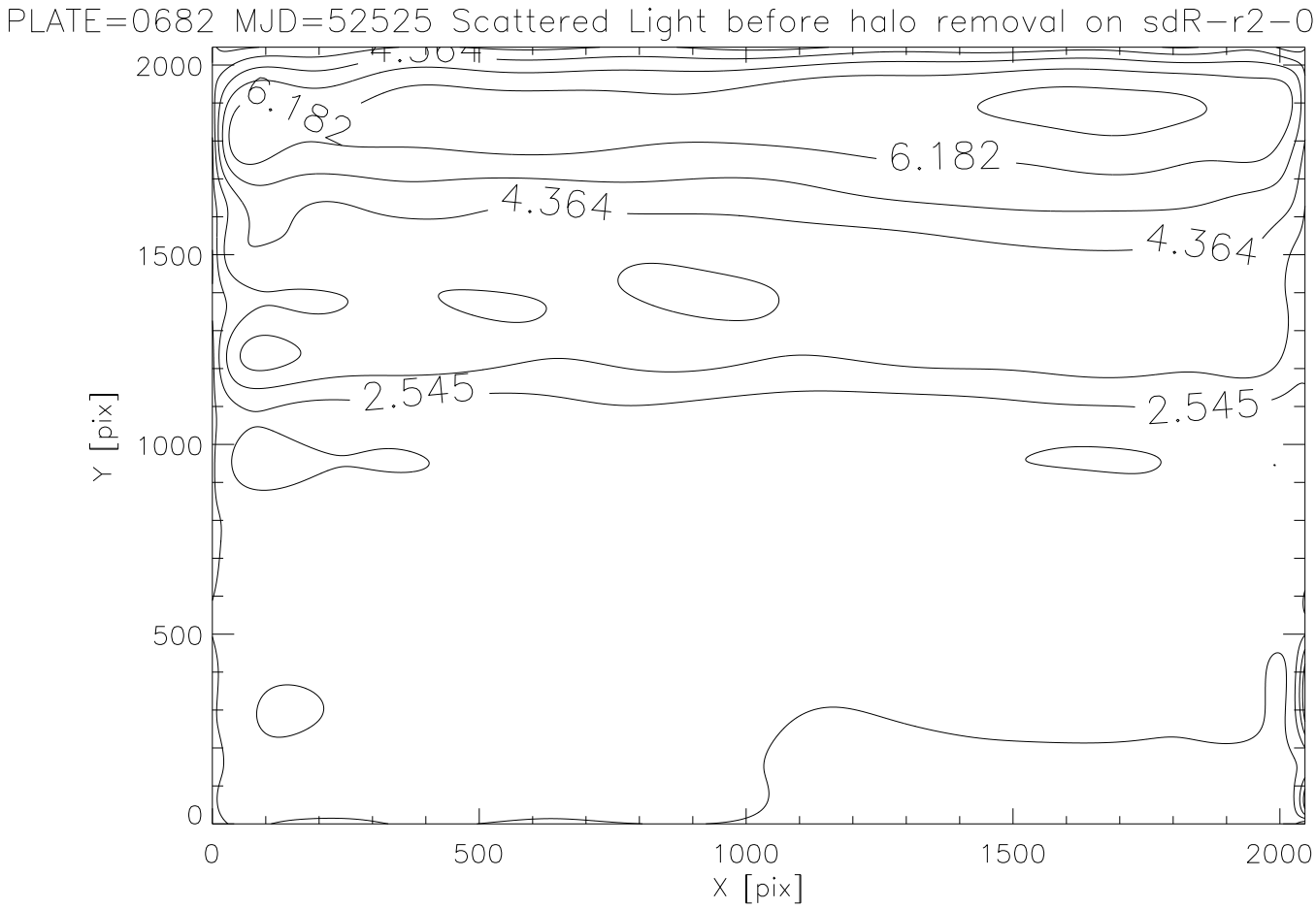

PLATE=0682 MJD=52525 sdR-r2-00016307.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

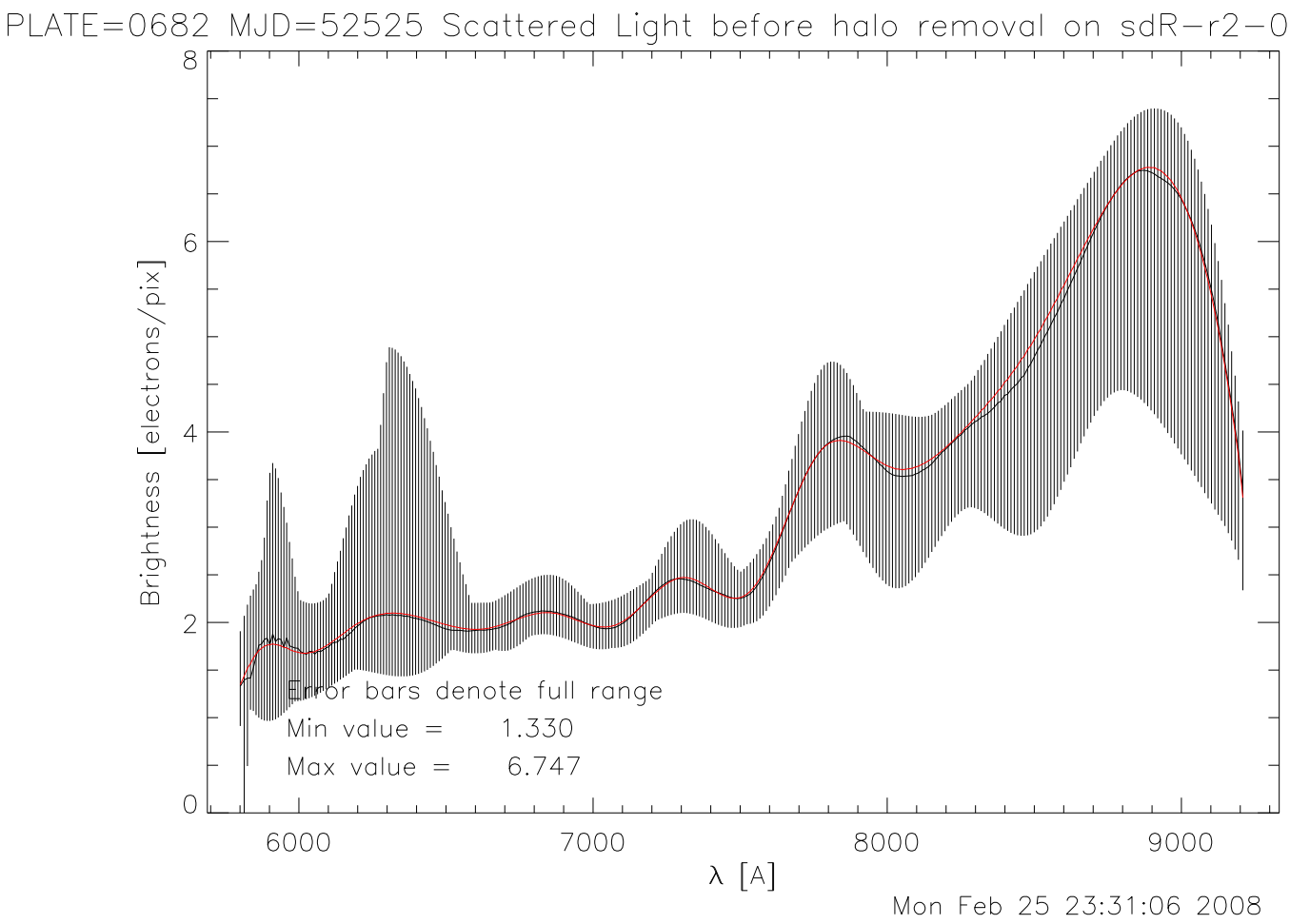

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r2-00016307.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

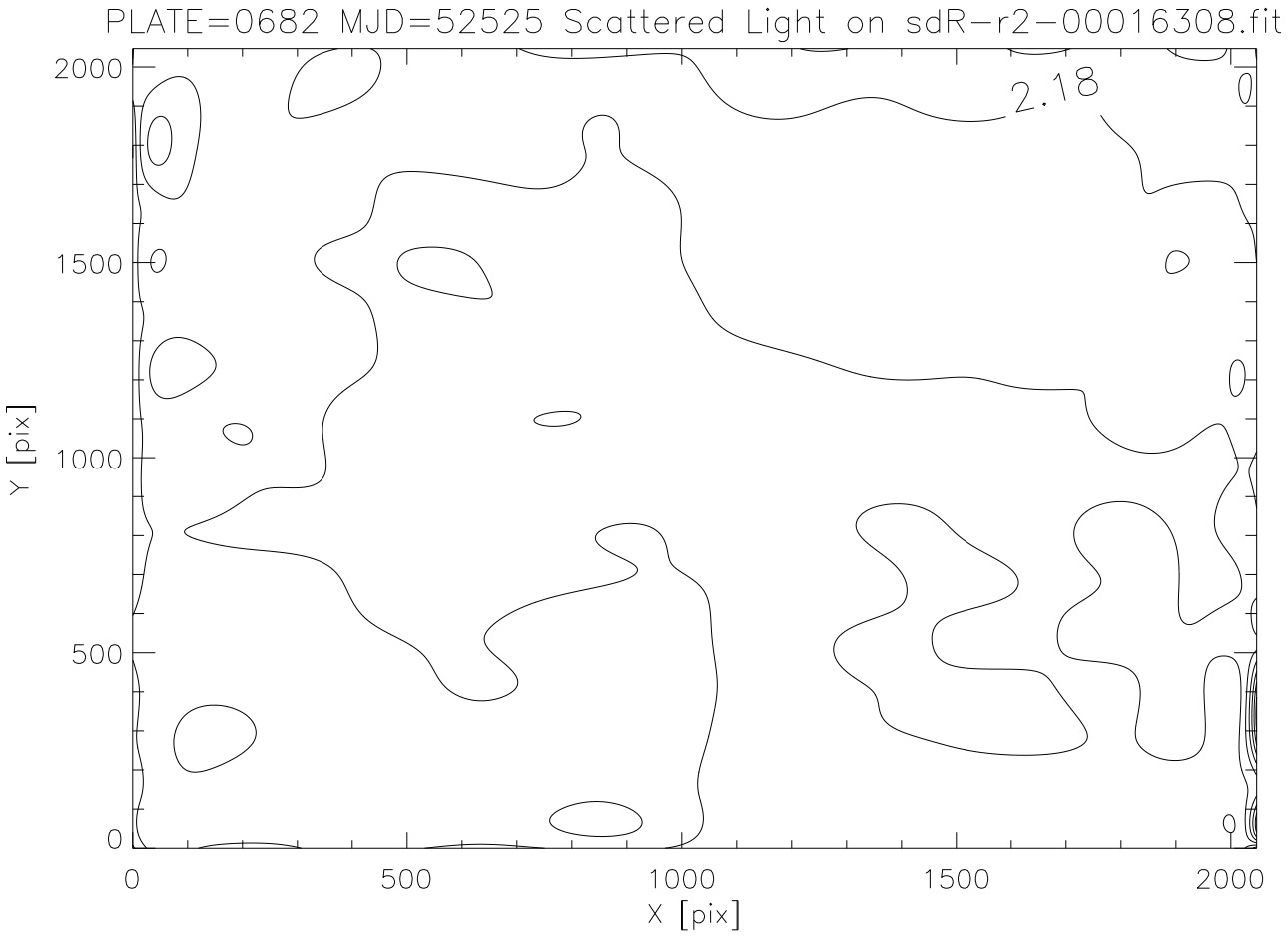

PLATE=0682 MJD=52525 sdR-r2-00016307.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.39 %
Fiber number
Focal Distance [mm]
Airmass

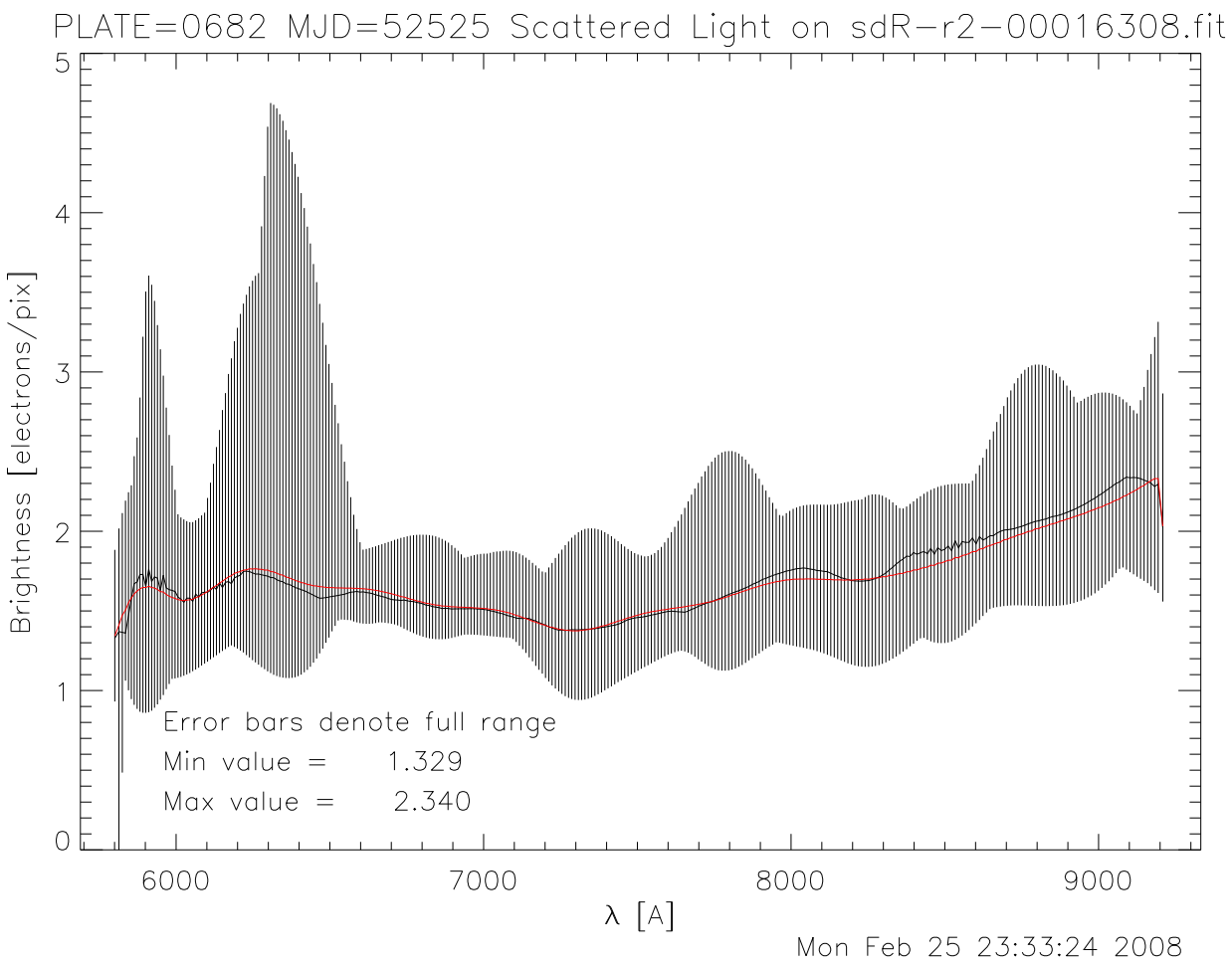

PLATE=0682 MJD=52525 sdR-r2-00016307.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.91 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

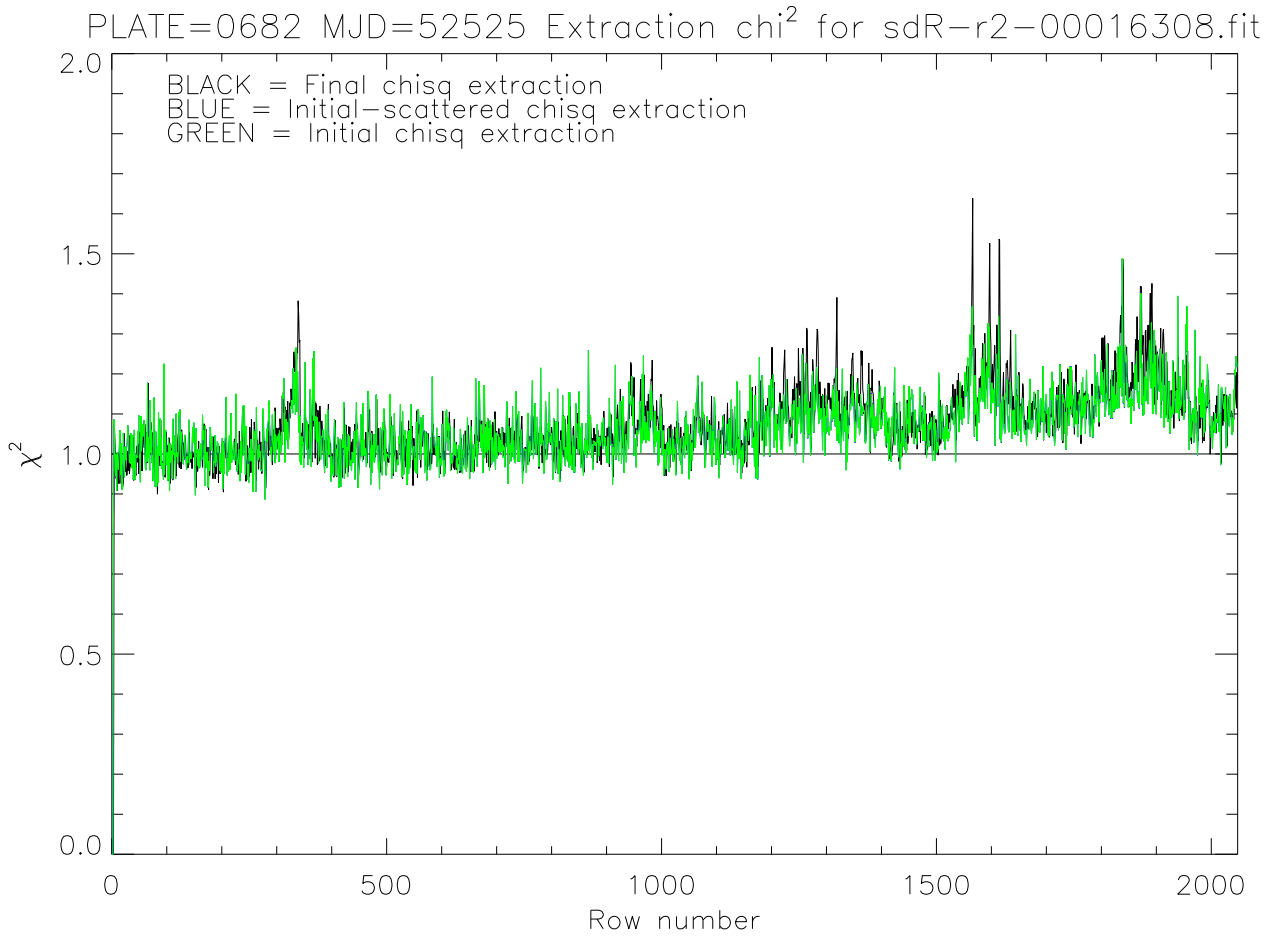

PLATE=0682 MJD=52525 Fiber−Flats for sdR−r2−00016309.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.708
Max value = 1.182
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 23:30:27 2008

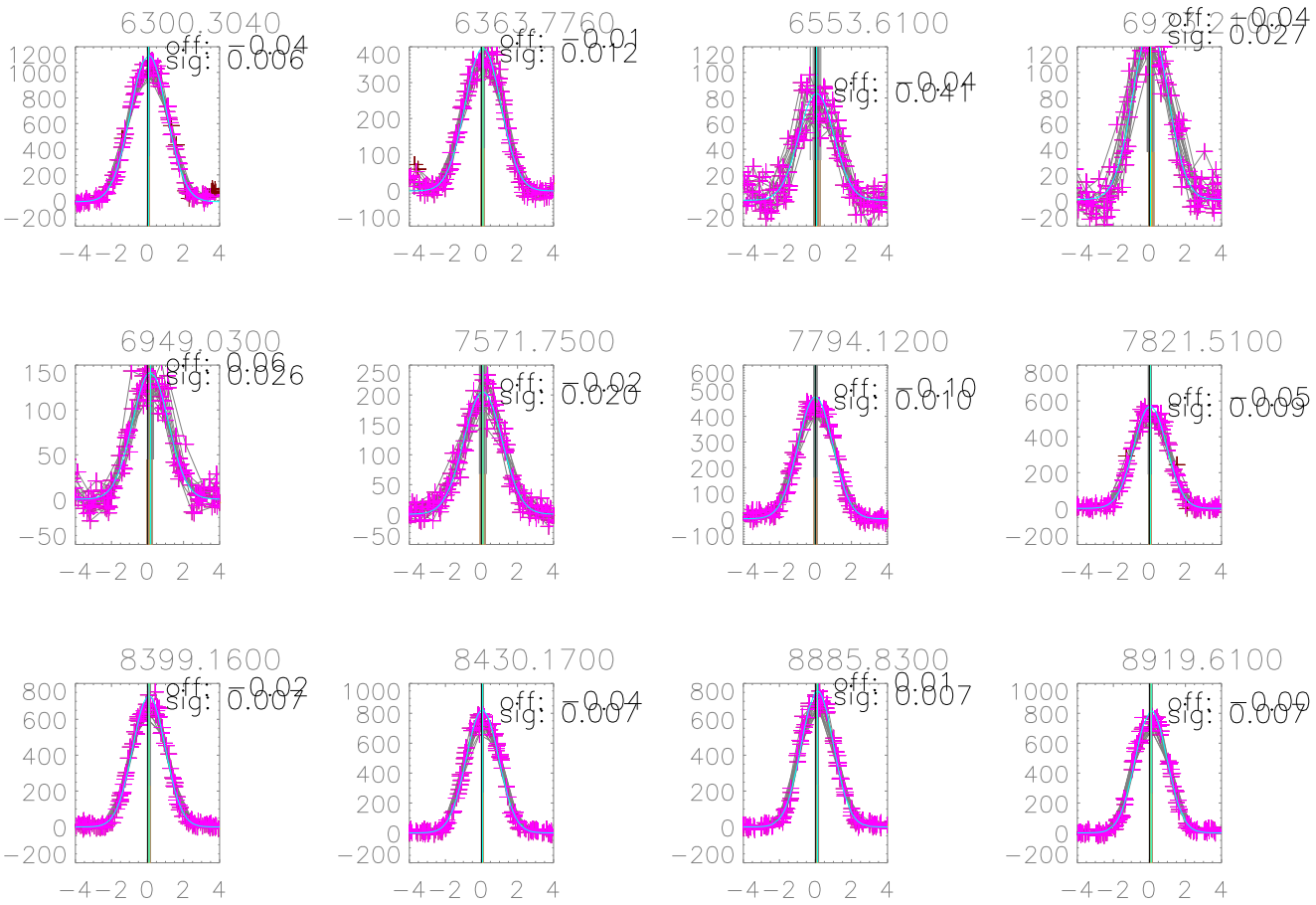

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r2-00016308.fi
6.182
6.182
4.364
4.364
2.545
2.545
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

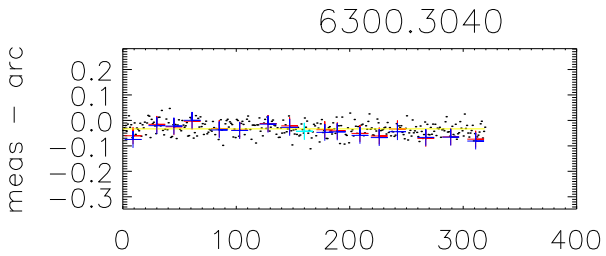

PLATE=0682 MJD=52525 Scattered Light before halo removal on sdR-r2-00016308.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.330
Max value = 6.747
Mon Feb 25 23:31:06 2008

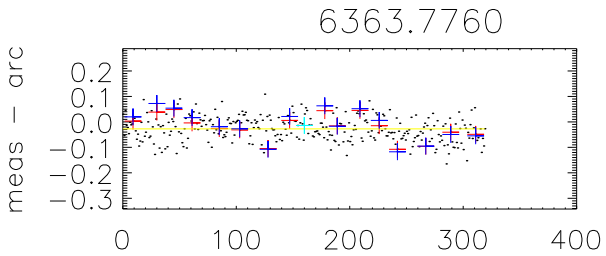

PLATE=0682 MJD=52525 Scattered Light on sdR-r2-00016308.fit
2.18
0
0
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

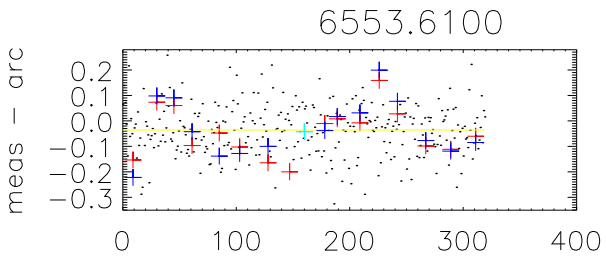

PLATE=0682 MJD=52525 Scattered Light on sdR-r2-00016308.fit
Brightness [electrons/pix]
0
1
2
3
4
5
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 1.329
Max value = 2.340
Mon Feb 25 23:33:24 2008

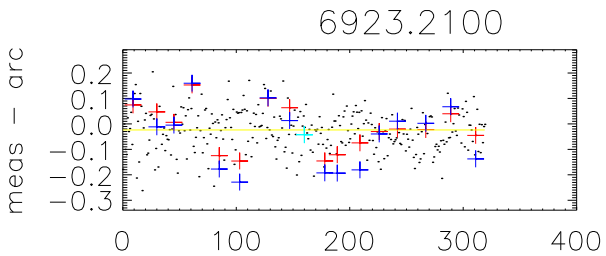

PLATE=0682 MJD=52525 Extraction chi$^2$ for sdR-r2-00016308.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
$\chi^2$
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

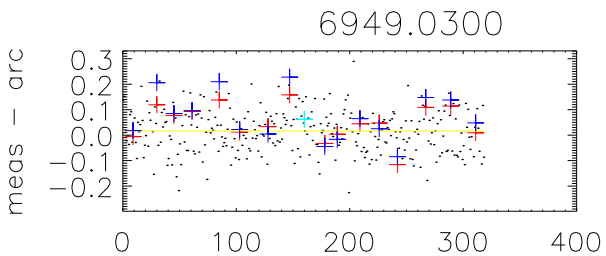

6300.3040
off: −0.04
sig: 0.006
6363.7760
off: −0.01
sig: 0.012
6553.6100
off: −0.04
sig: 0.041
off: −0.04
sig: 0.027
6949.0300
off: 0.06
sig: 0.026
7571.7500
off: −0.02
sig: 0.020
7794.1200
off: −0.10
sig: 0.010
7821.5100
off: −0.05
sig: 0.009
8399.1600
off: −0.02
sig: 0.007
8430.1700
off: −0.04
sig: 0.007
8885.8300
off: 0.01
sig: 0.007
8919.6100
off: −0.09
sig: 0.007

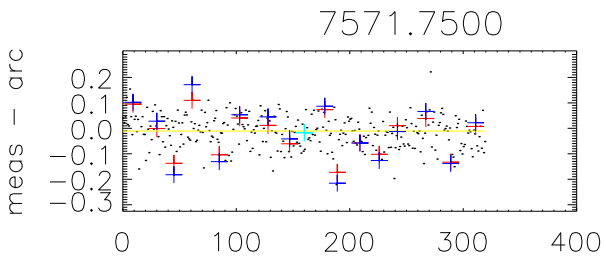

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

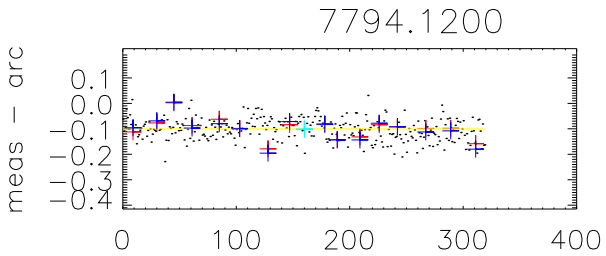

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

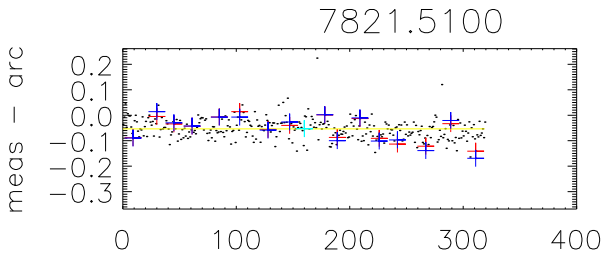

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

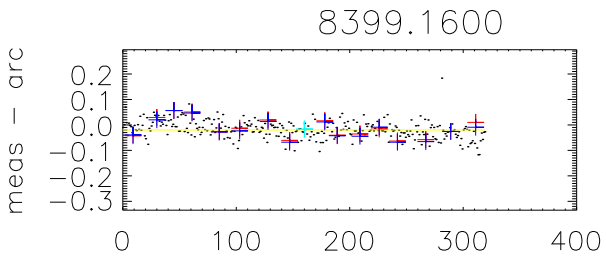

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

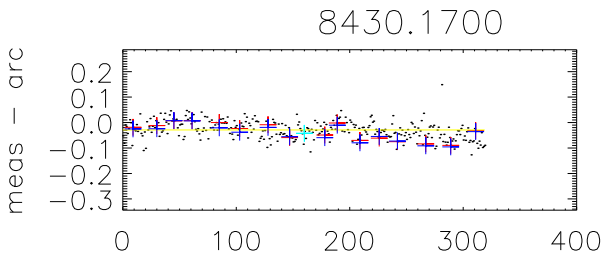

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

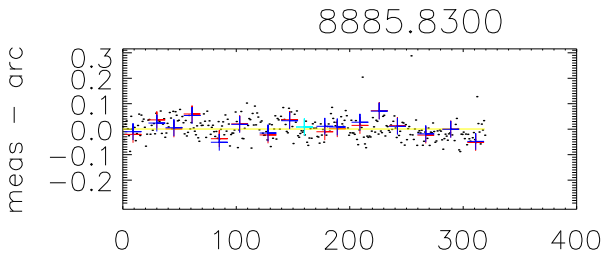

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

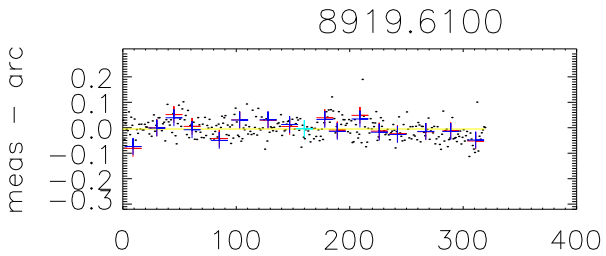

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

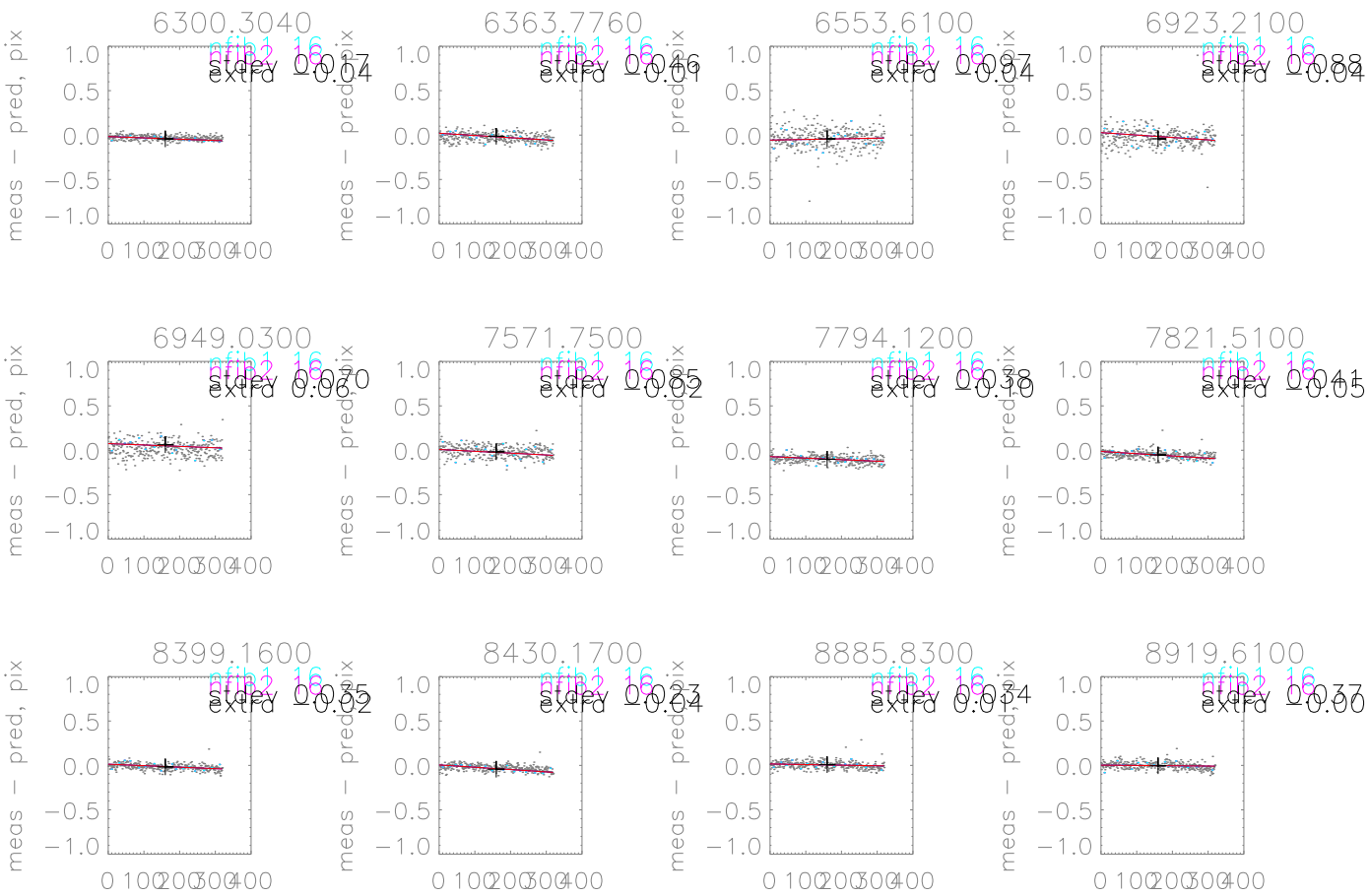

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

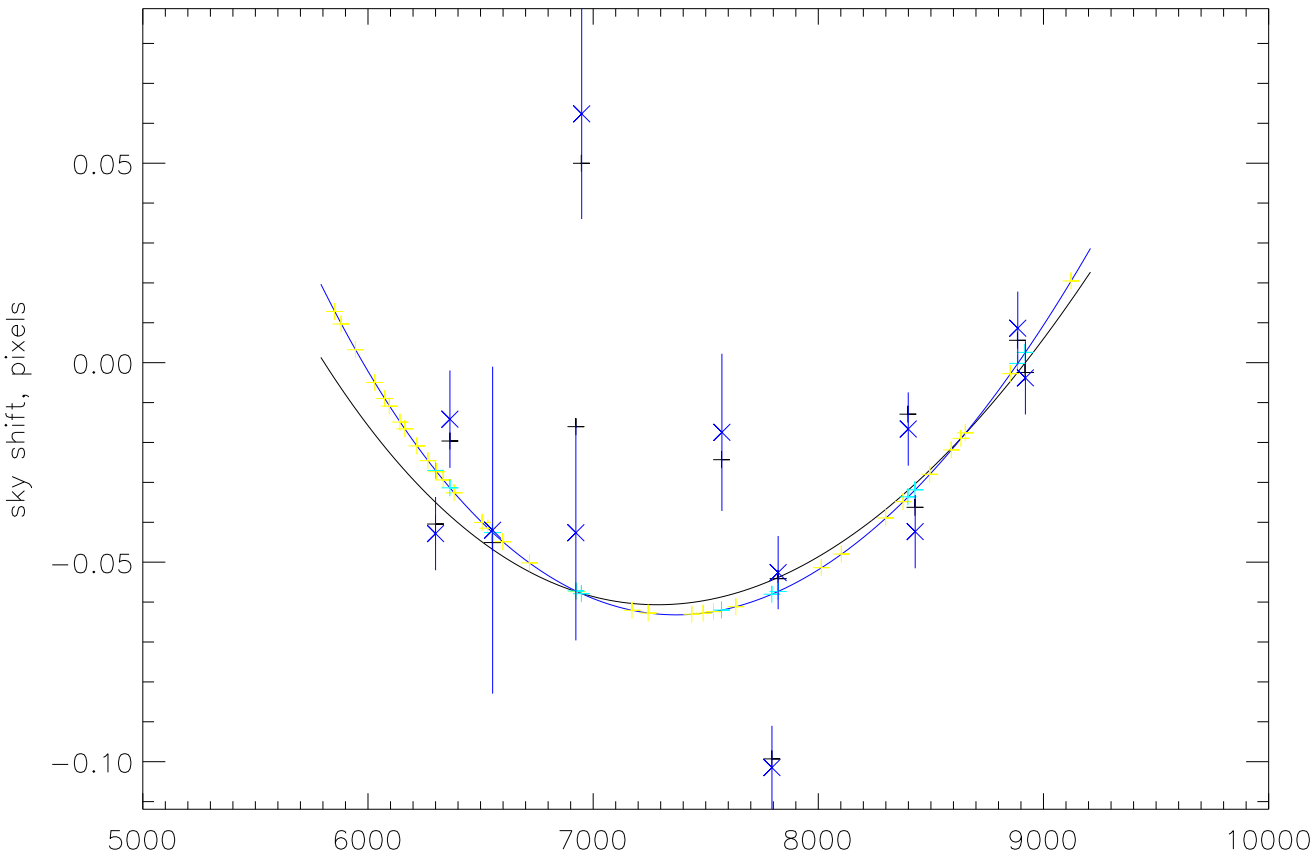

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

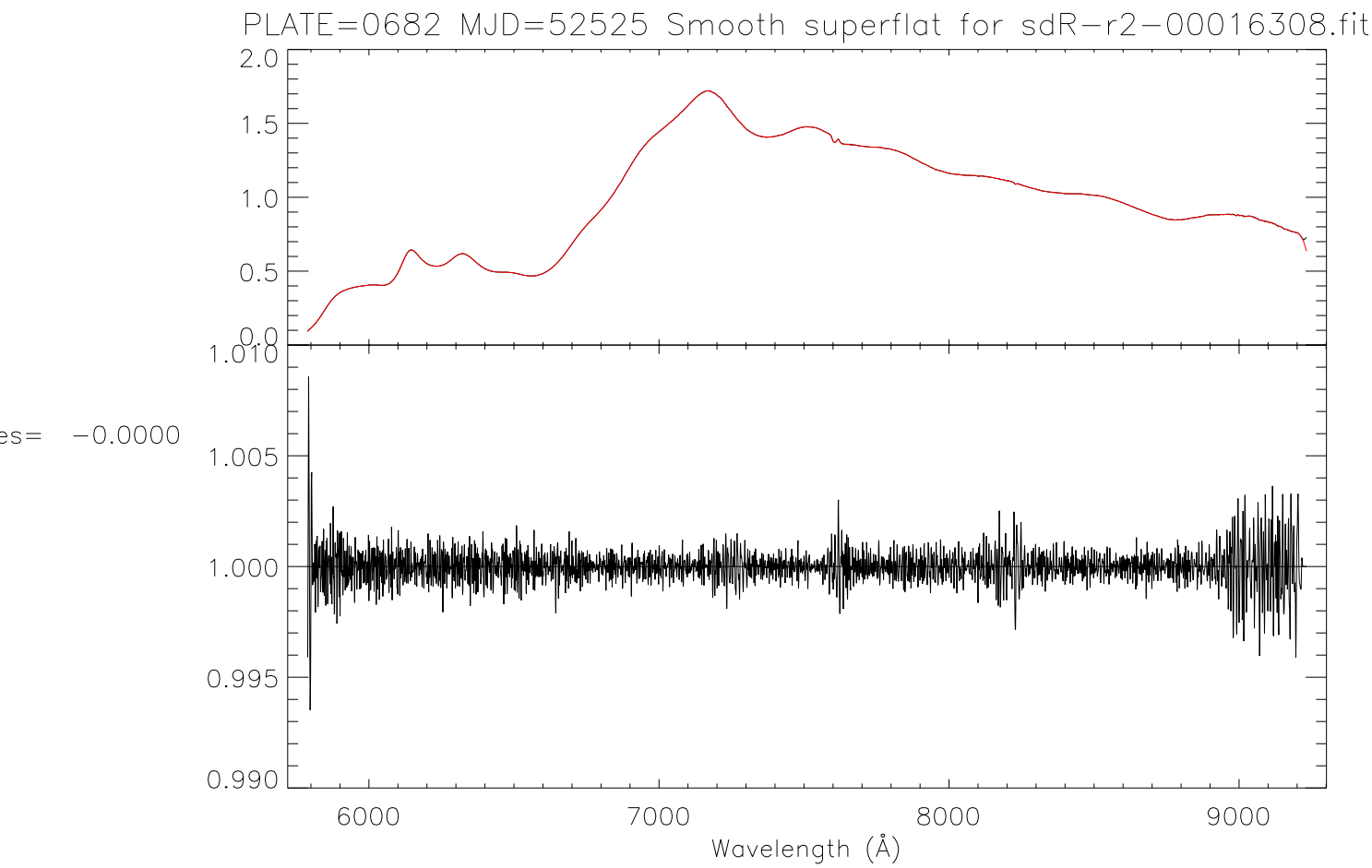

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

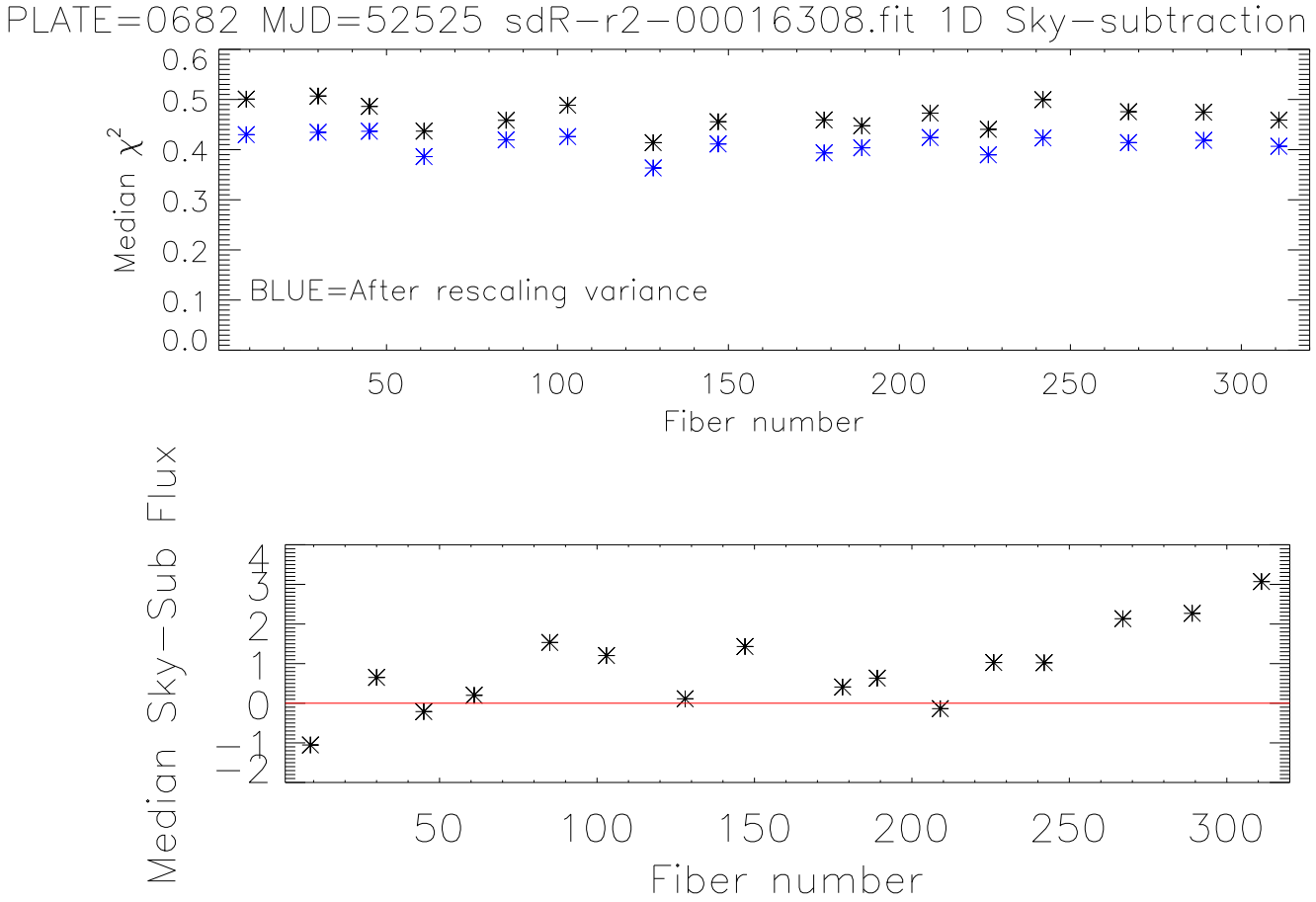

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

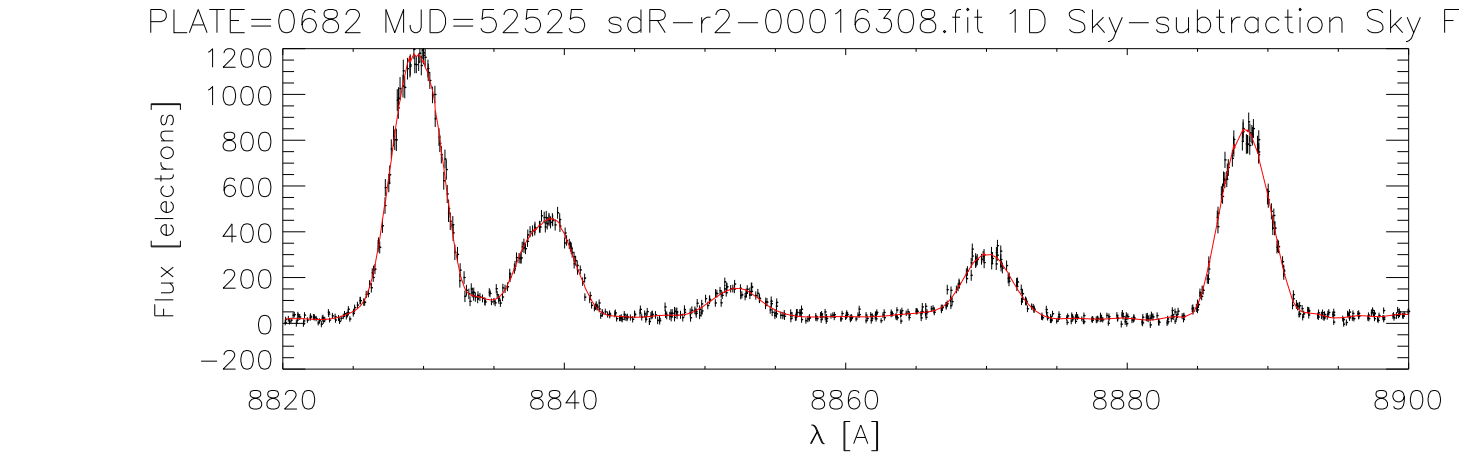

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

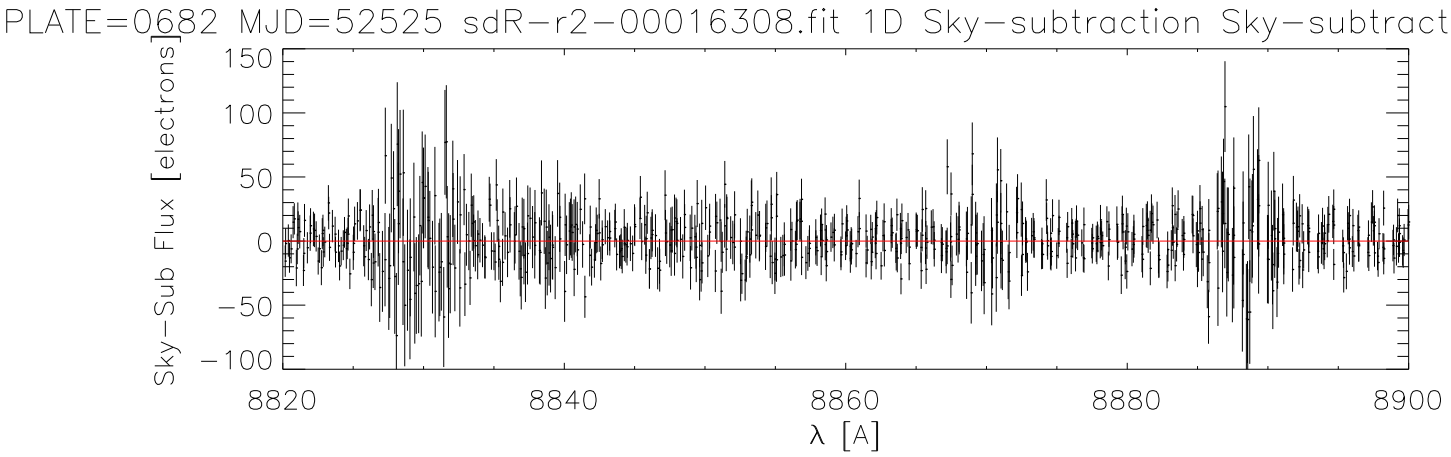

6300.3040
stdev 0.017
extra −0.04
6363.7760
stdev 0.046
extra −0.01
6553.6100
stdev 0.097
extra −0.04
6923.2100
stdev 0.088
extra −0.04
6949.0300
stdev 0.070
extra 0.06
7571.7500
stdev 0.085
extra −0.02
7794.1200
stdev 0.38
extra −0.10
7821.5100
stdev 0.041
extra −0.05
8399.1600
stdev 0.035
extra −0.02
8430.1700
stdev 0.023
extra −0.04
8885.8300
stdev 0.034
extra 0.014
8919.6100
stdev 0.037
extra −0.00
meas − pred, pix
mfhd2 16

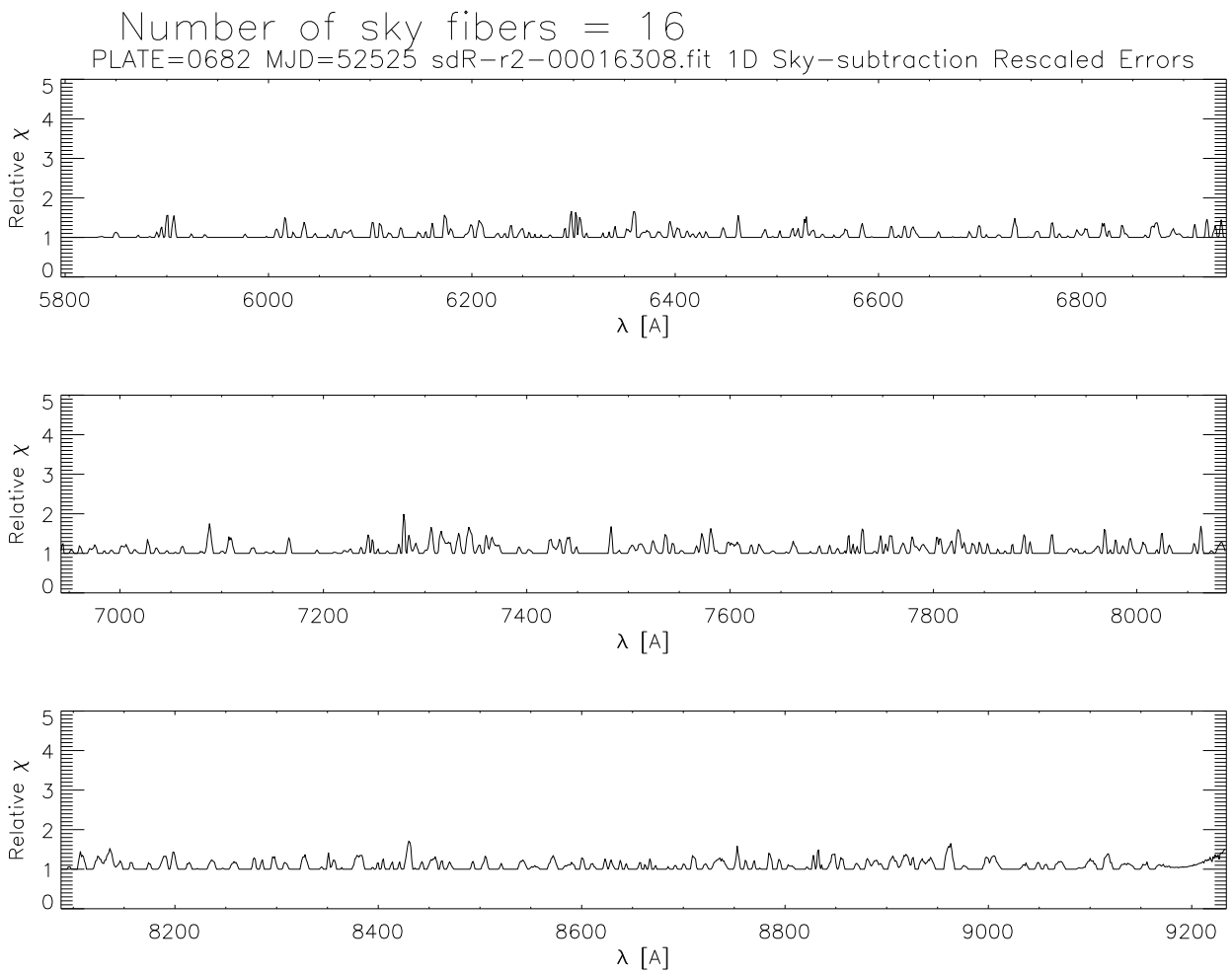

sky shift, pixels
0.05
0.00
−0.05
−0.10
5000
6000
7000
8000
9000
10000

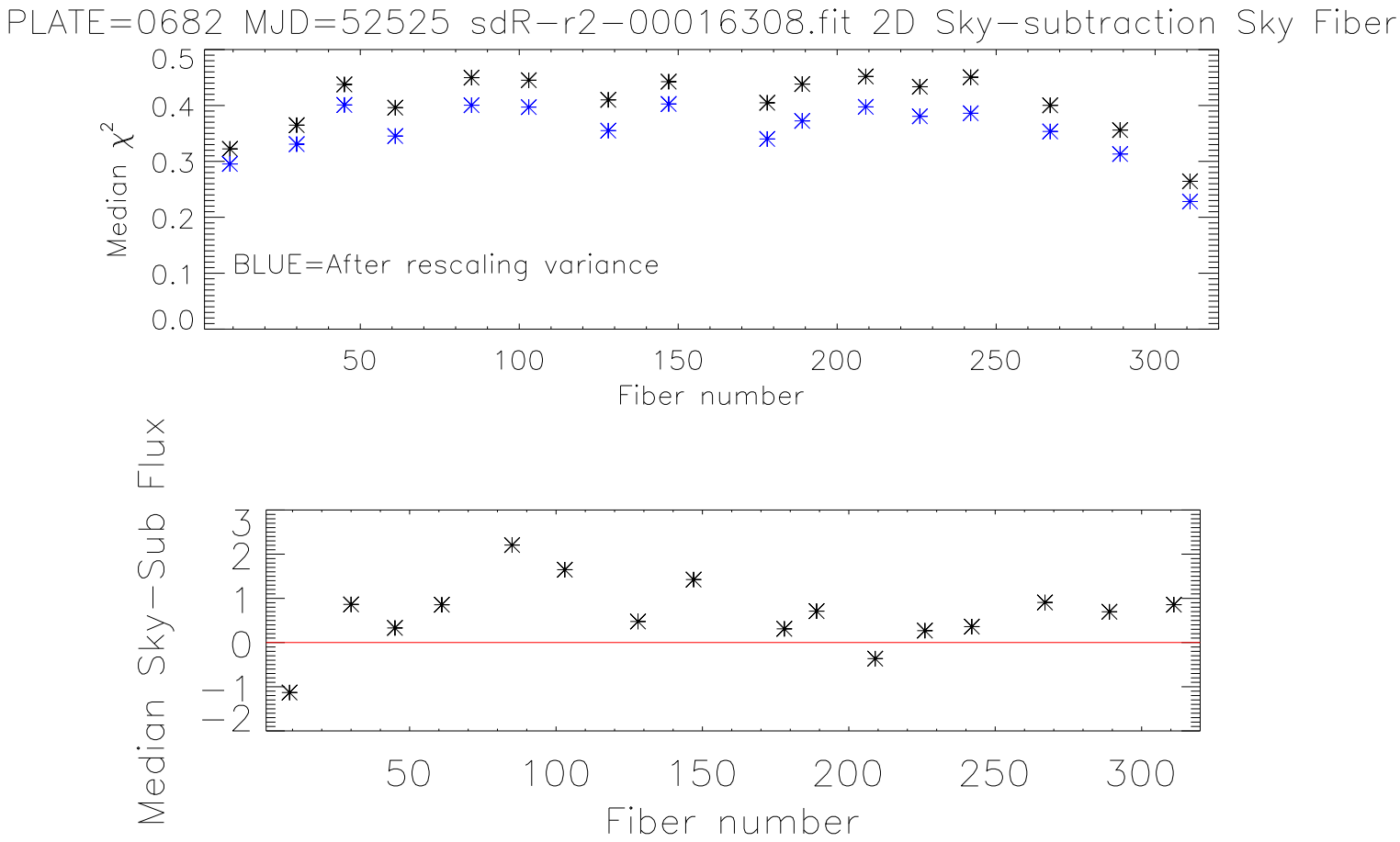

PLATE=0682 MJD=52525 Smooth superflat for sdR-r2-00016308.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

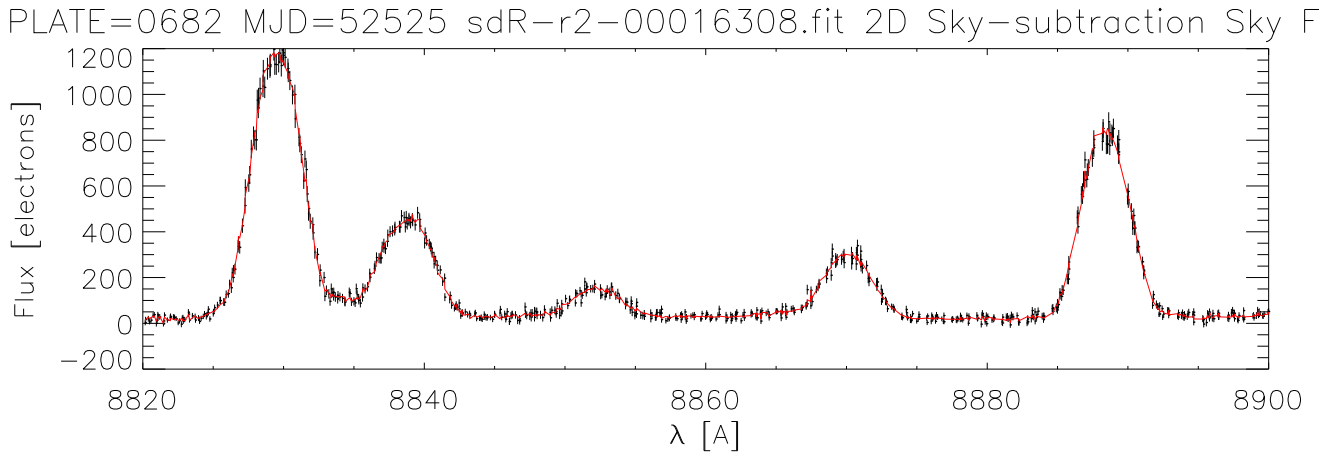

PLATE=0682 MJD=52525 sdR-r2-00016308.fit 1D Sky-subtraction Sky Fibers
Median $\chi^2$
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

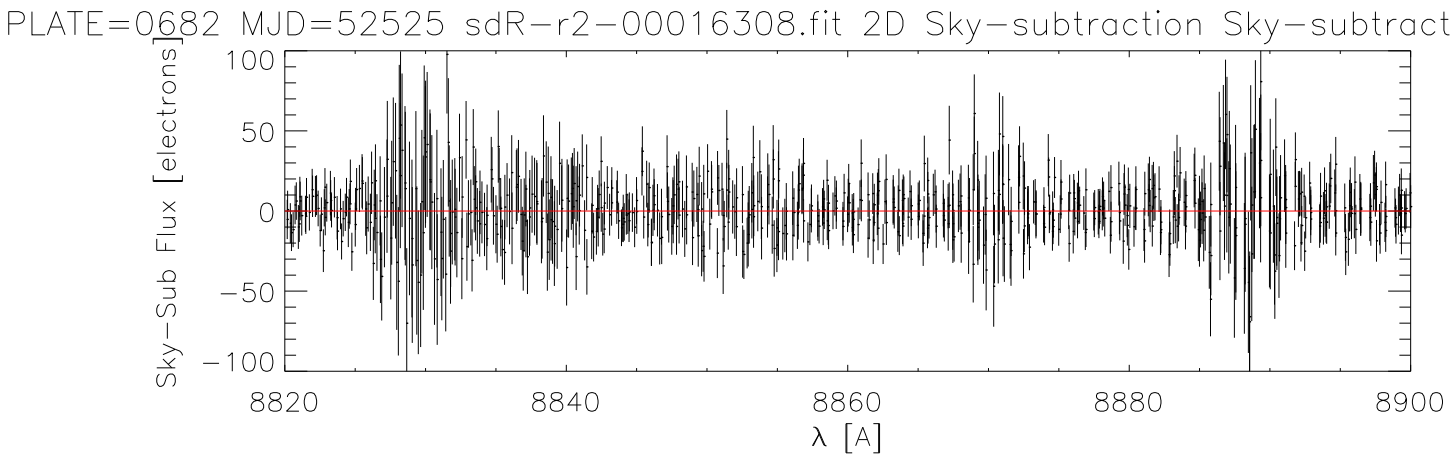

PLATE=0682 MJD=52525 sdR-r2-00016308.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

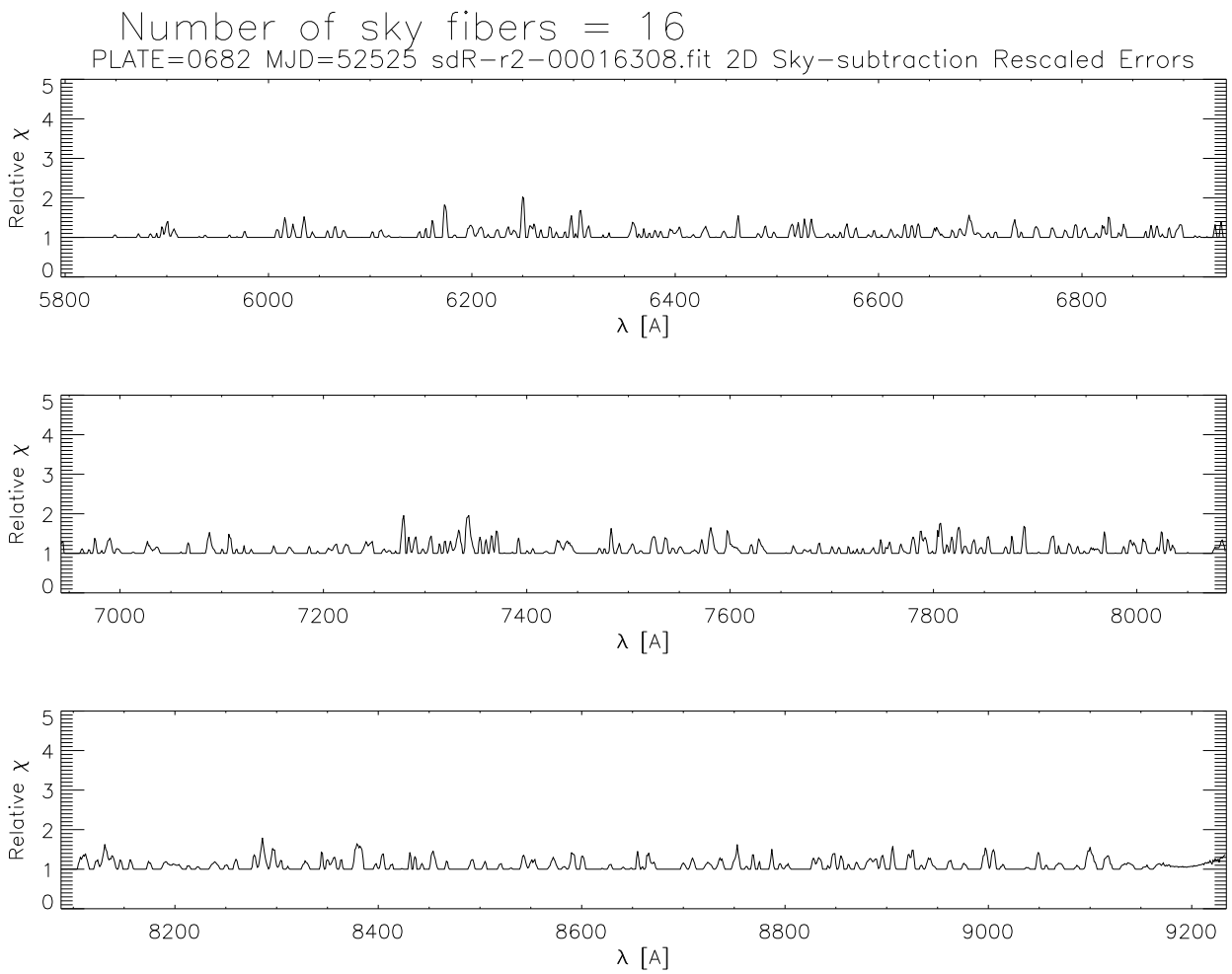

PLATE=0682 MJD=52525 sdR-r2-00016308.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

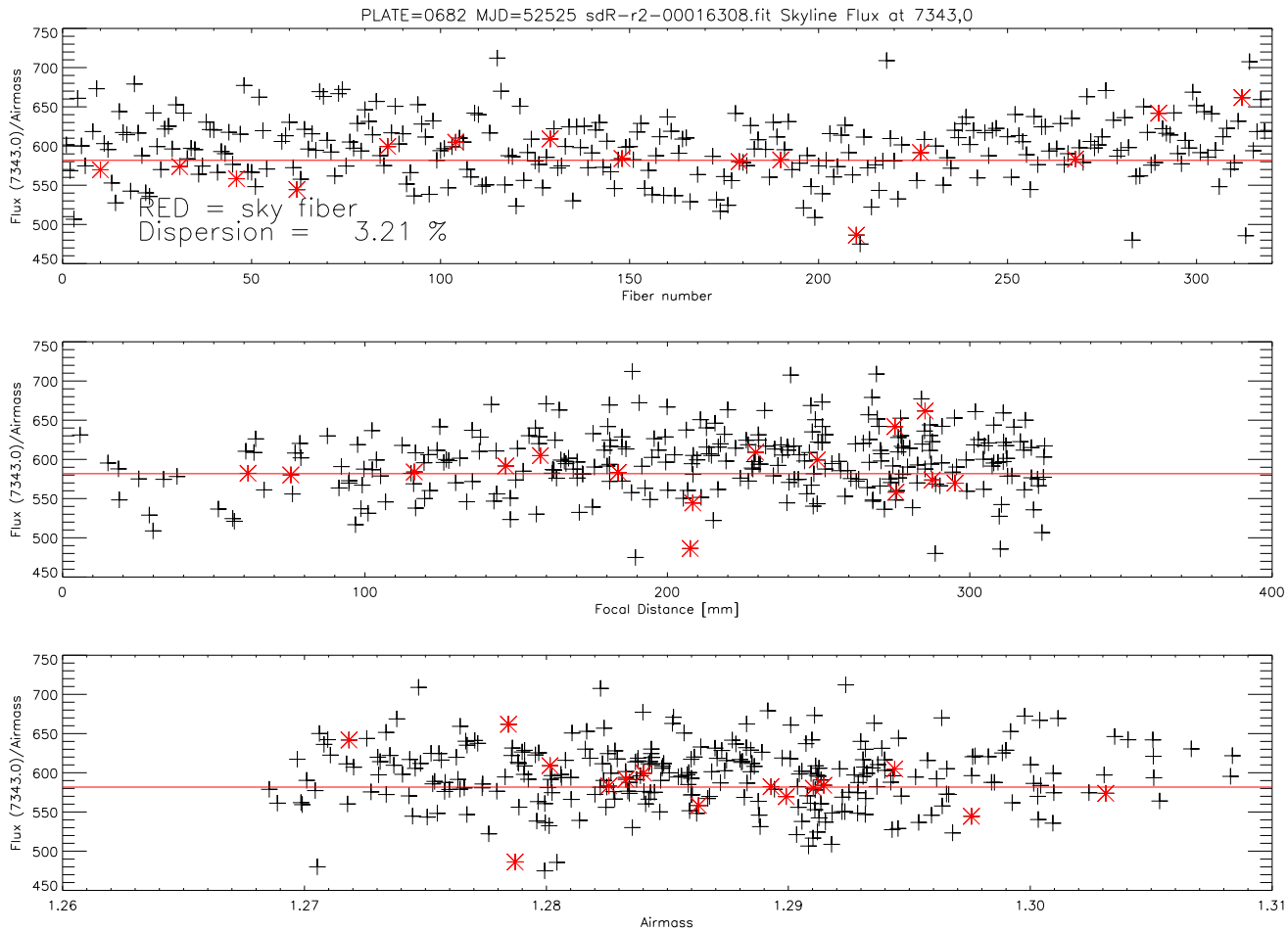

Number of sky fibers = 16
PLATE=0682 MJD=52525 sdR-r2-00016308.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

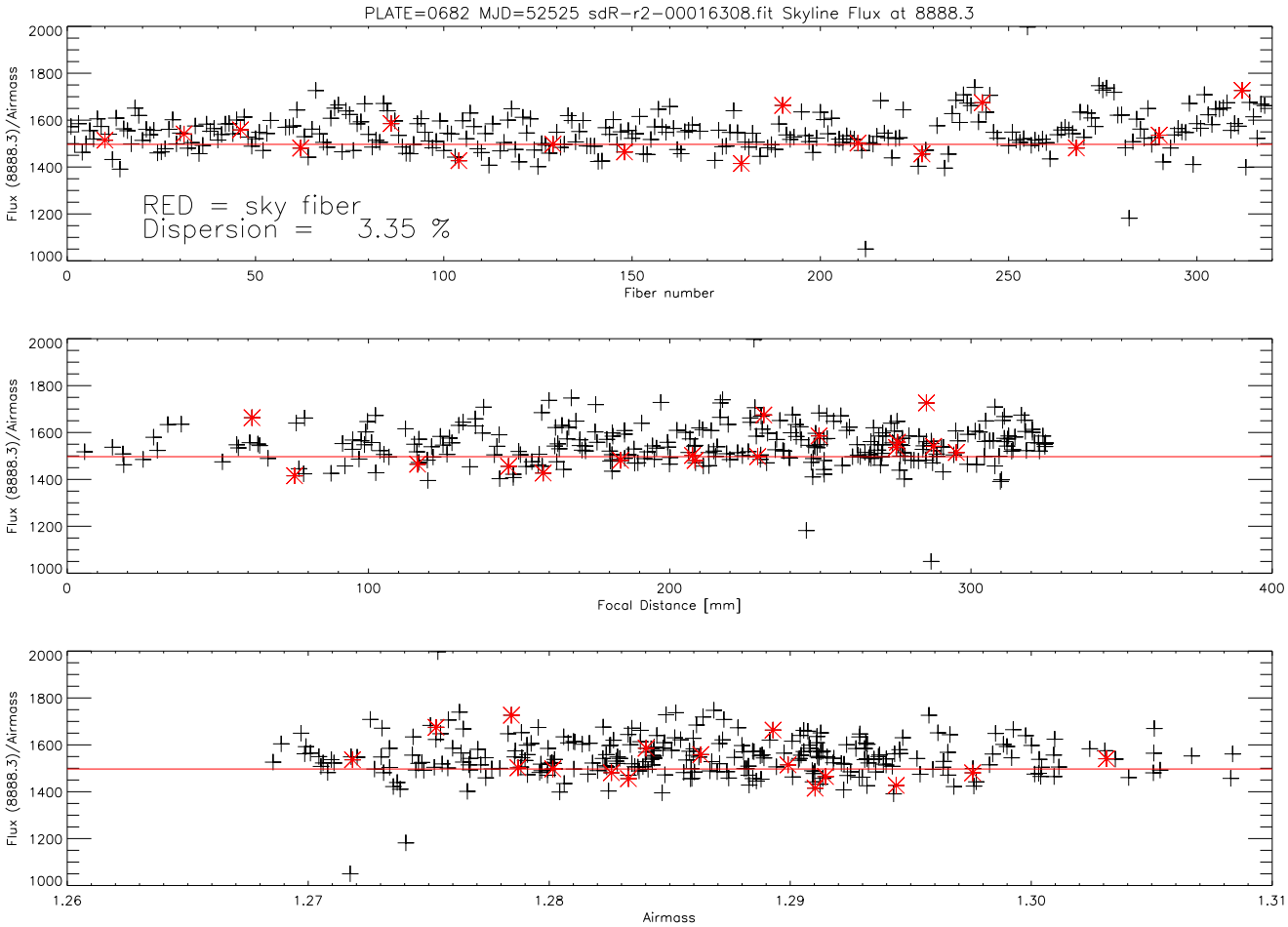

PLATE=0682 MJD=52525 sdR-r2-00016308.fit 2D Sky-subtraction Sky Fibers
Median $\chi^2$
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number


PLATE=0682 MJD=52525 sdR-r2-00016308.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]


PLATE=0682 MJD=52525 sdR-r2-00016308.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 = 16
PLATE=0682 MJD=52525 sdR-r2-00016308.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=0682 MJD=52525 sdR-r2-00016308.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.21 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0682 MJD=52525 sdR-r2-00016308.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.35 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass