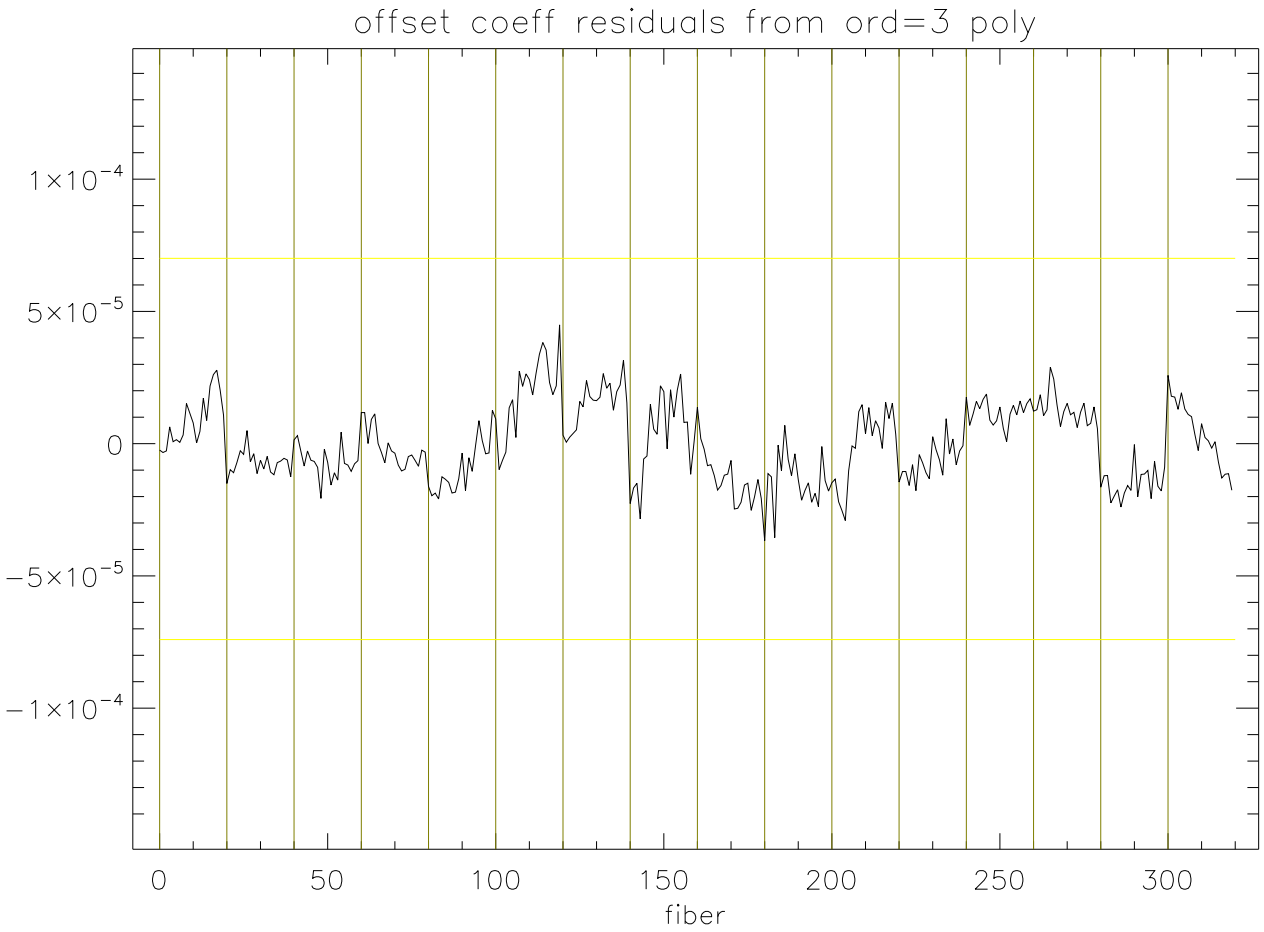
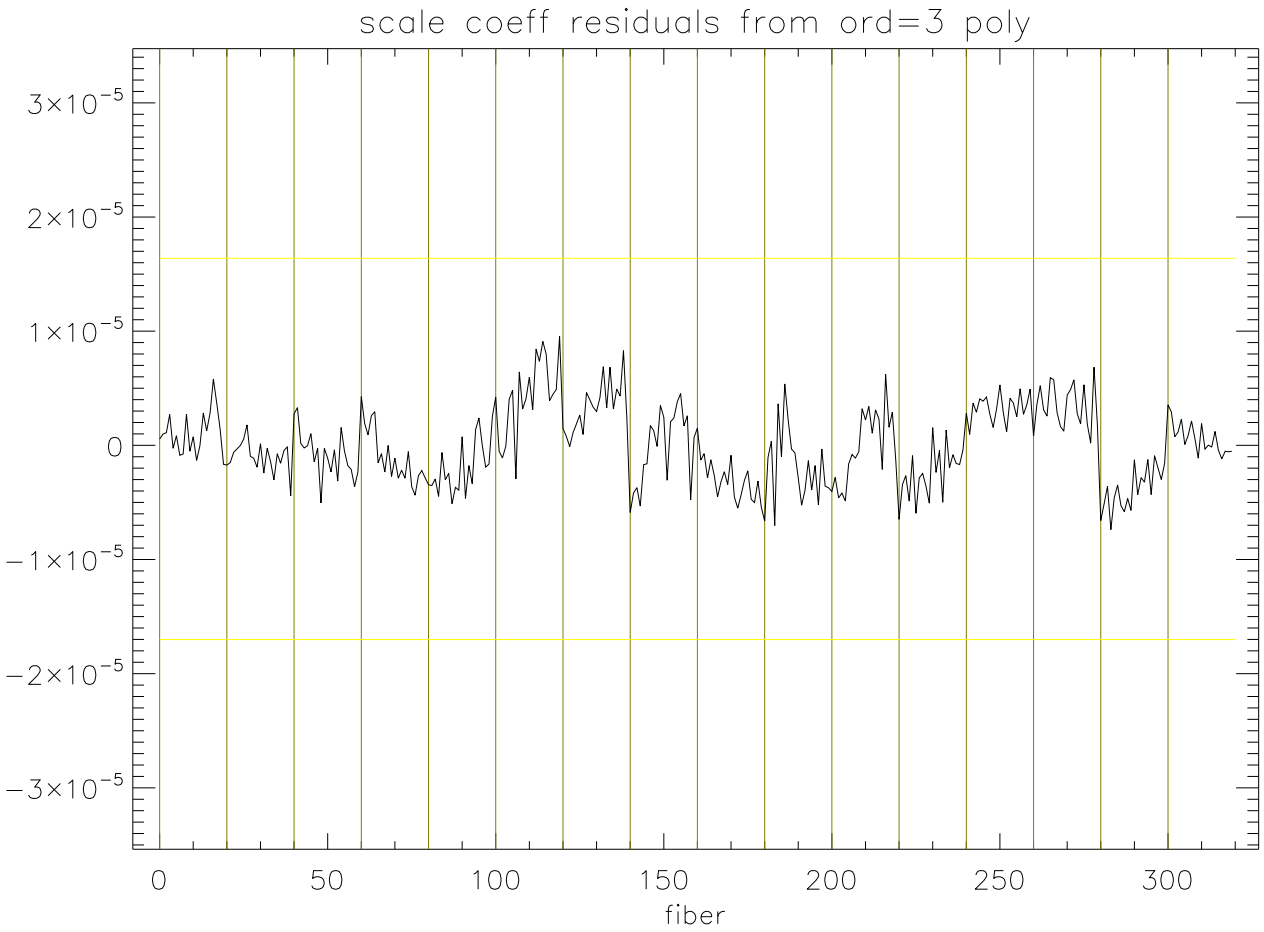
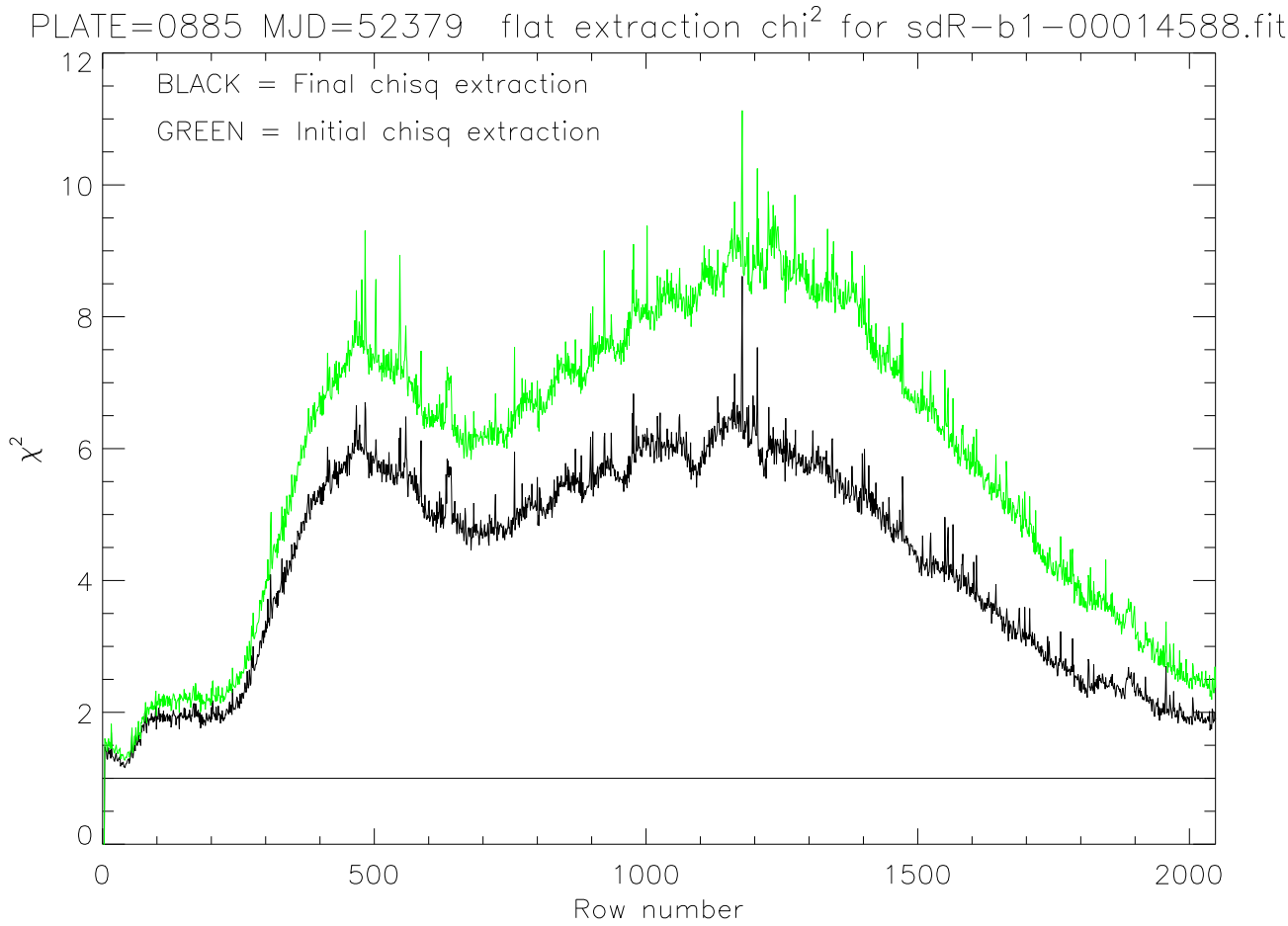
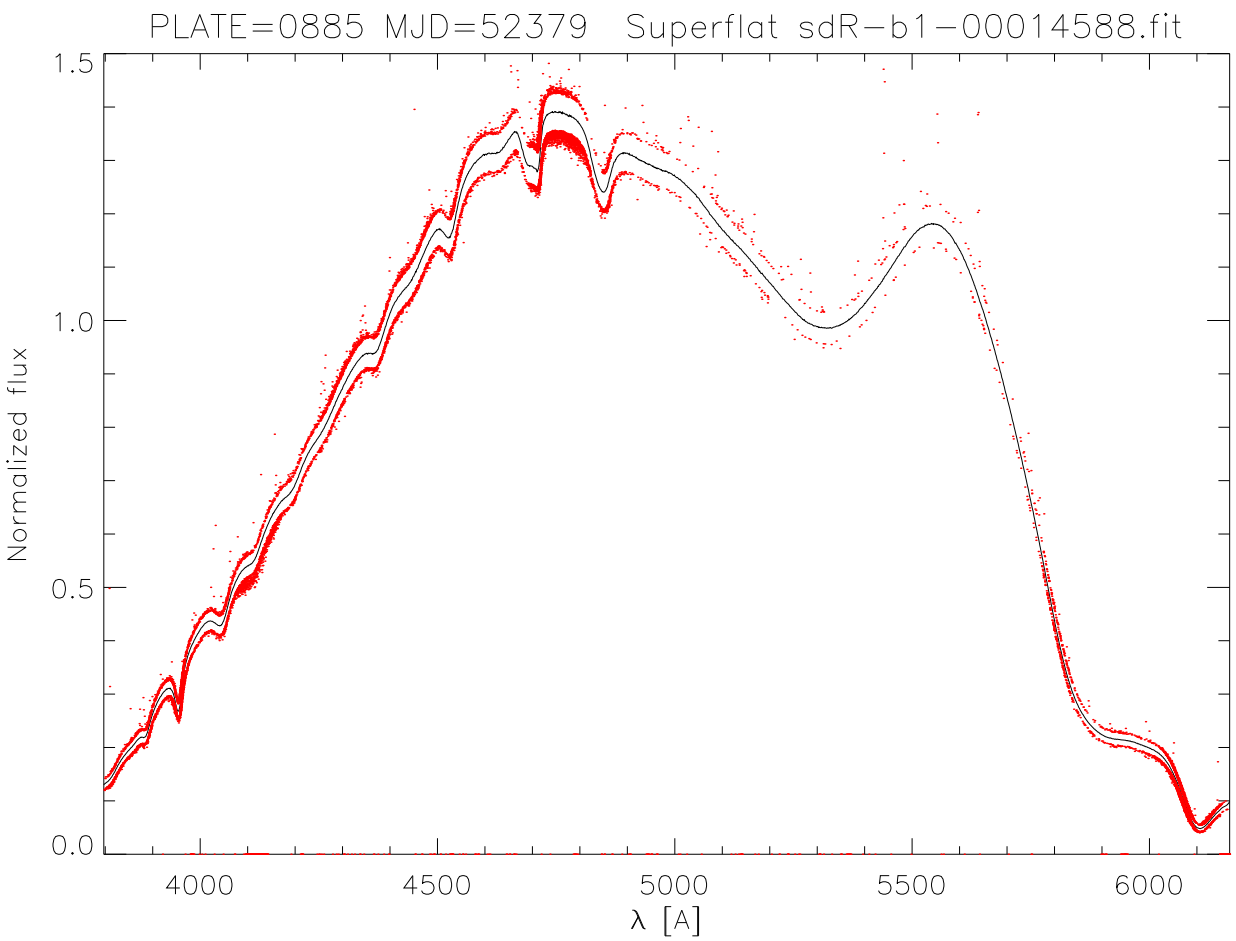
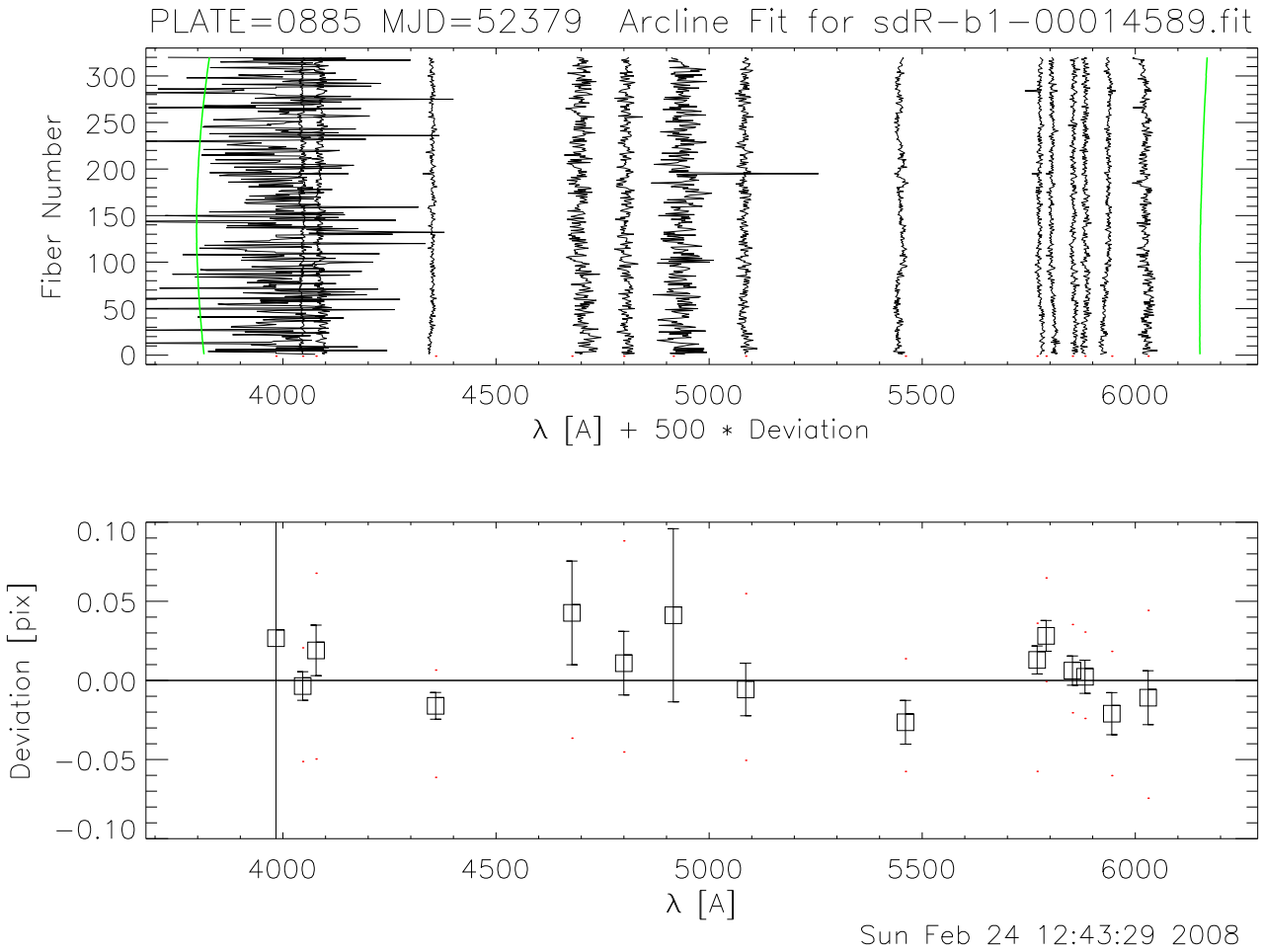
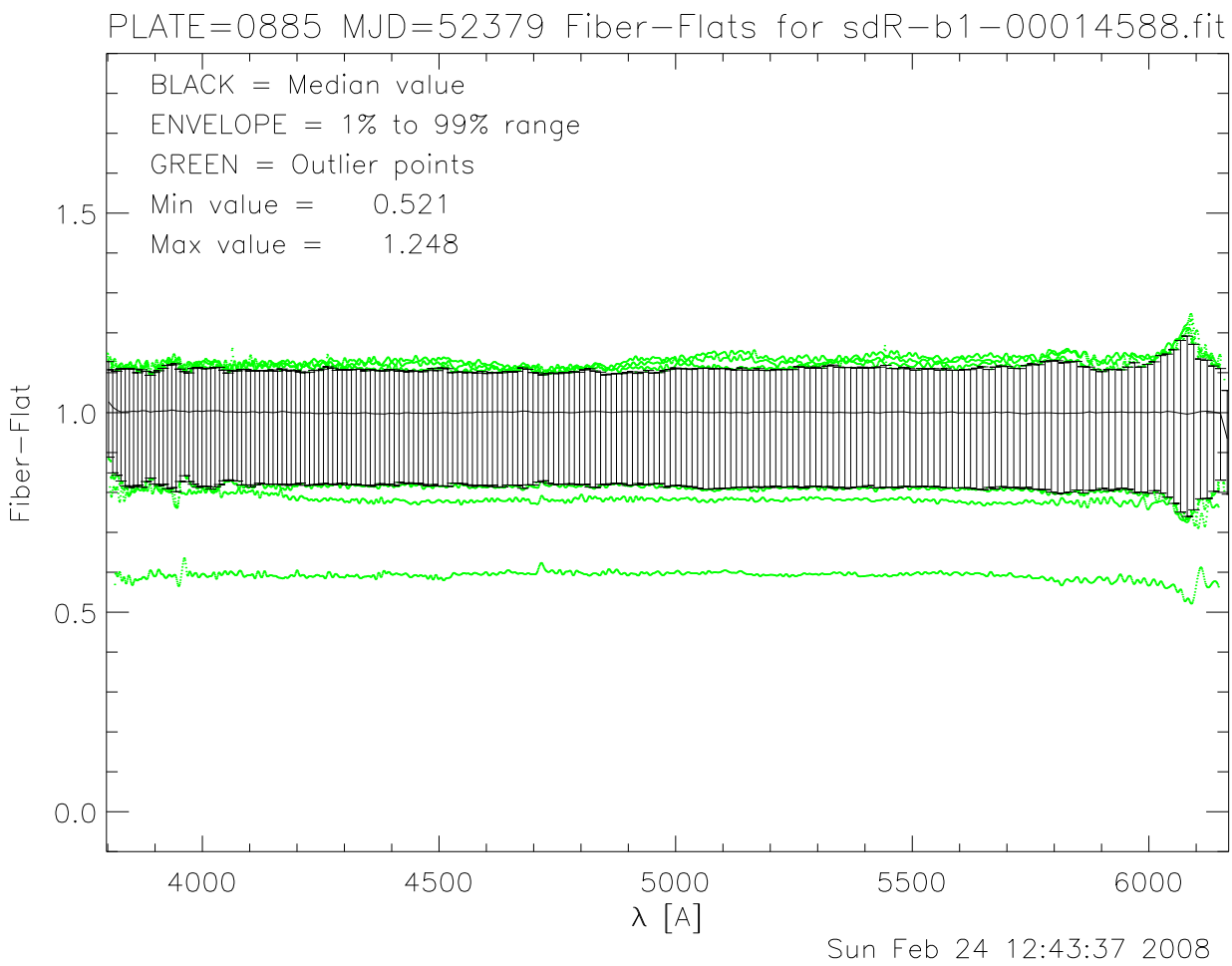

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

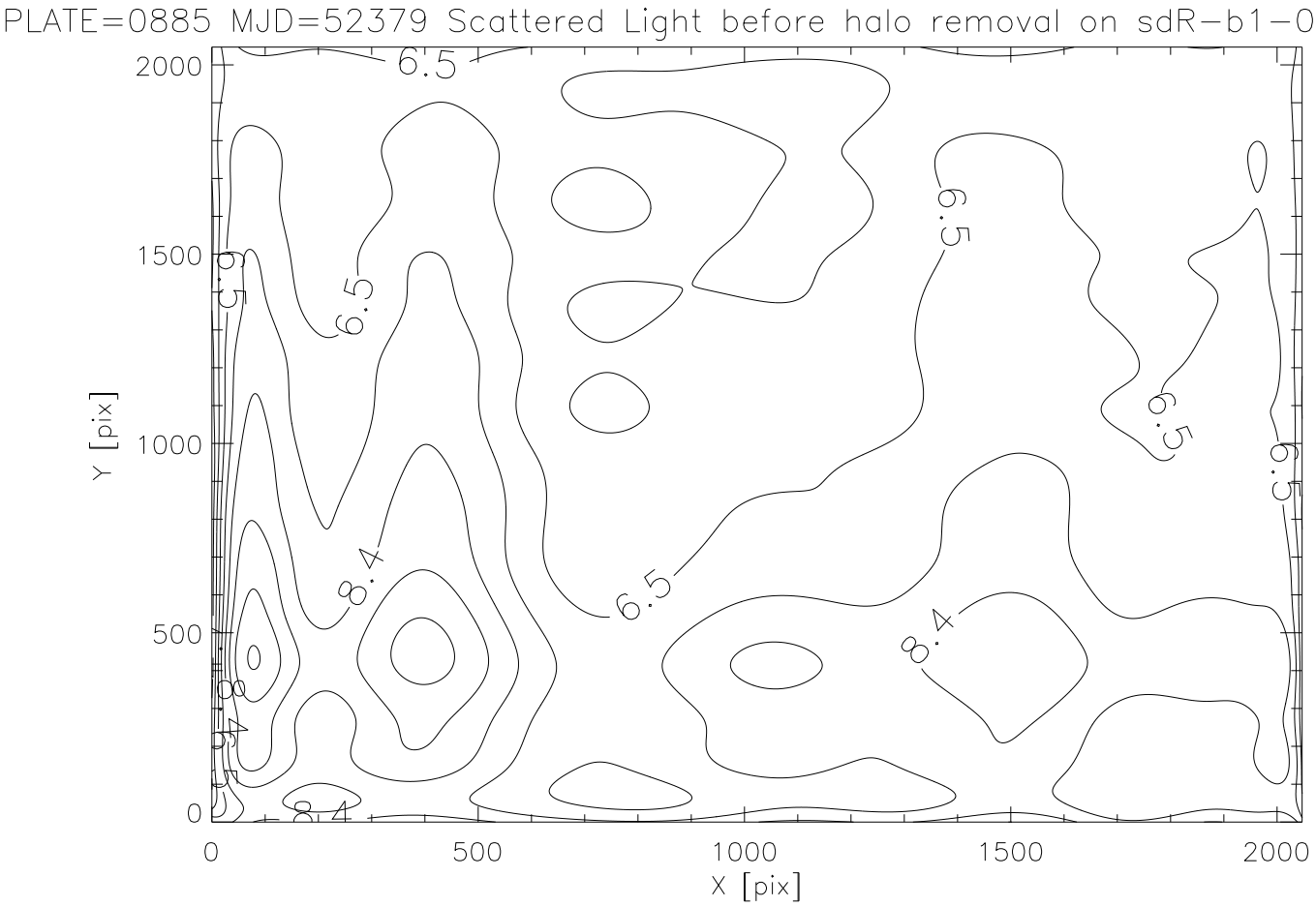

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

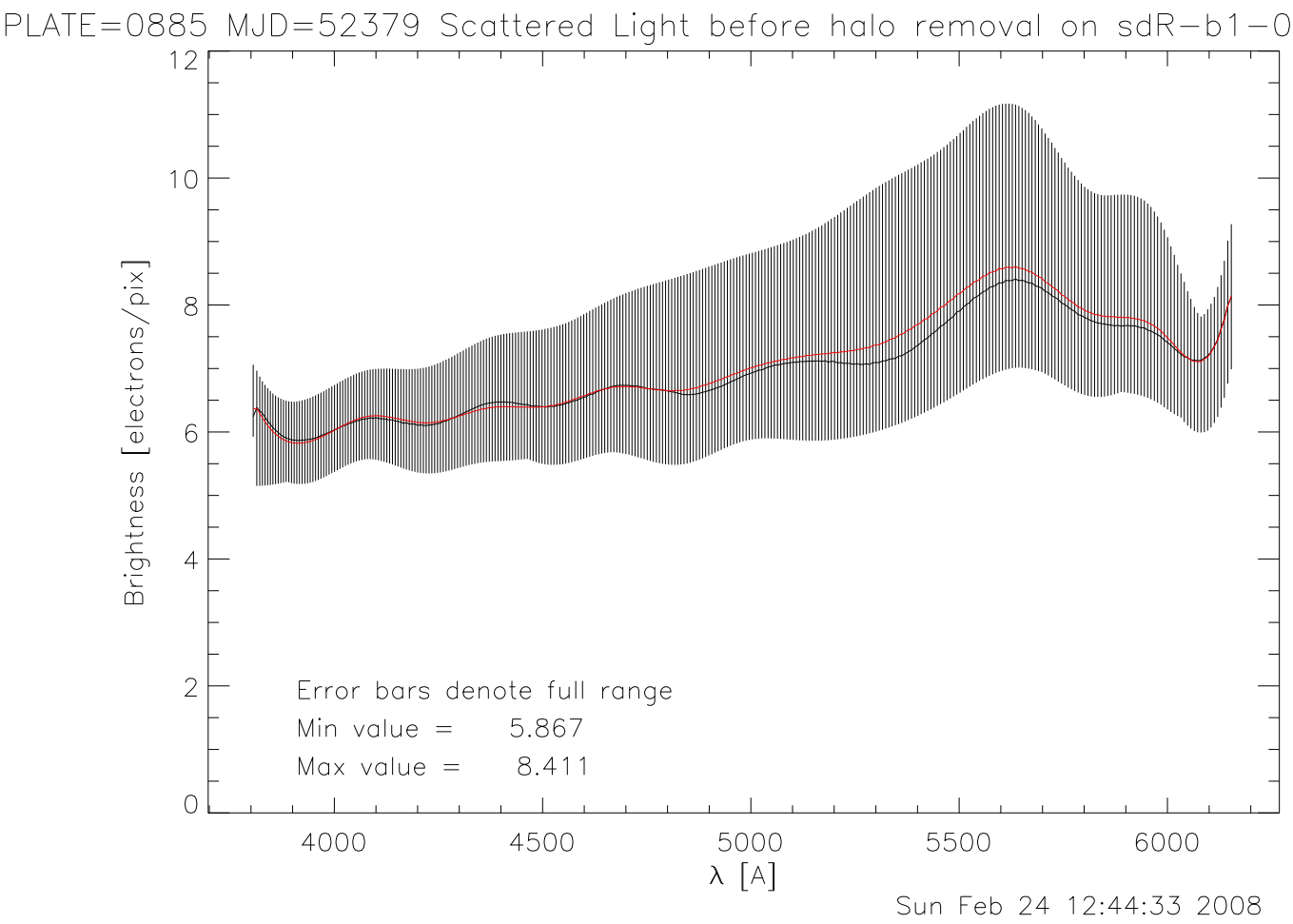

PLATE=0885 MJD=52379 flat extraction chi^2 for sdR−b1−00014588.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

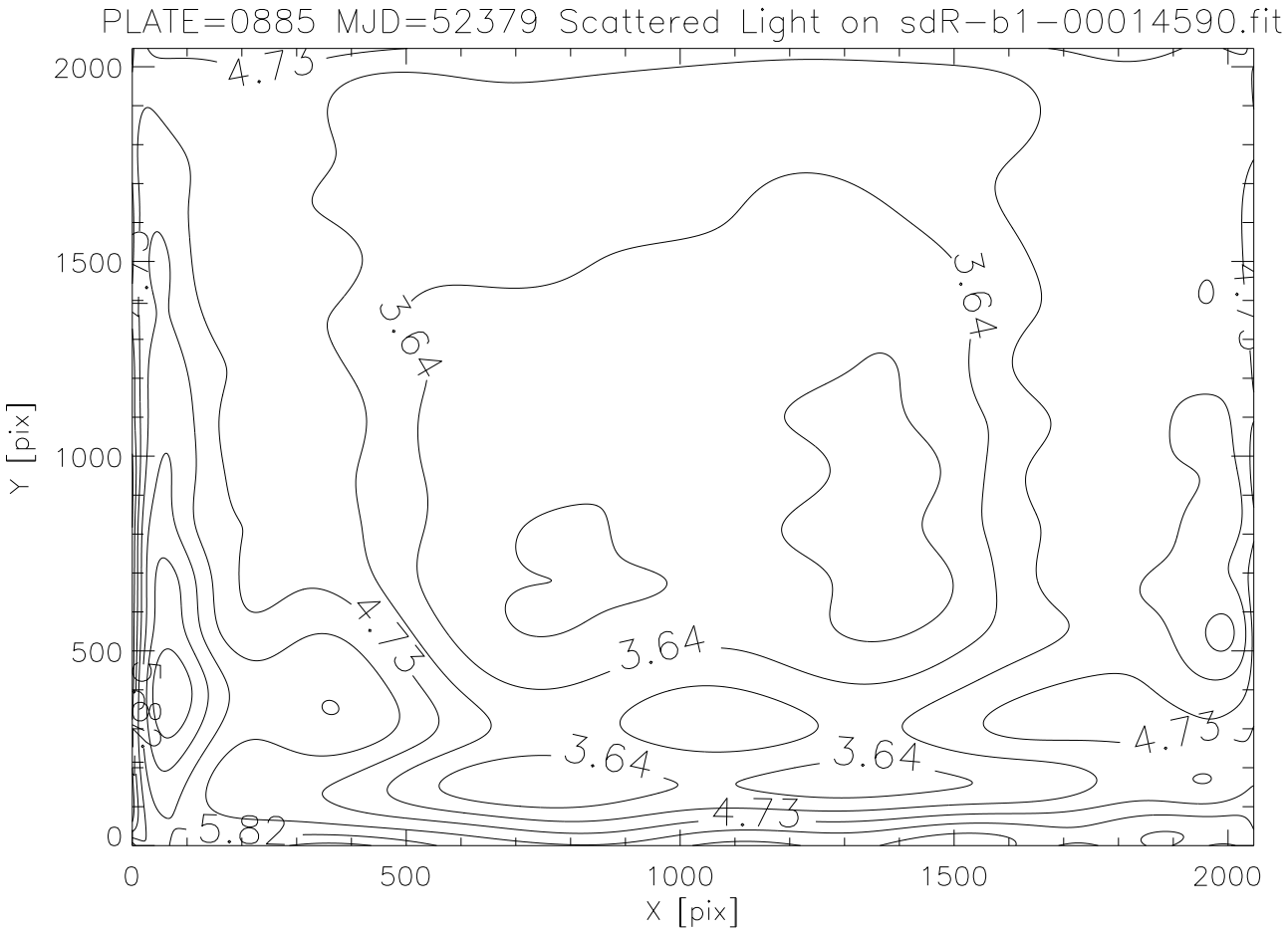

PLATE=0885 MJD=52379 Superflat sdR-b1-00014588.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

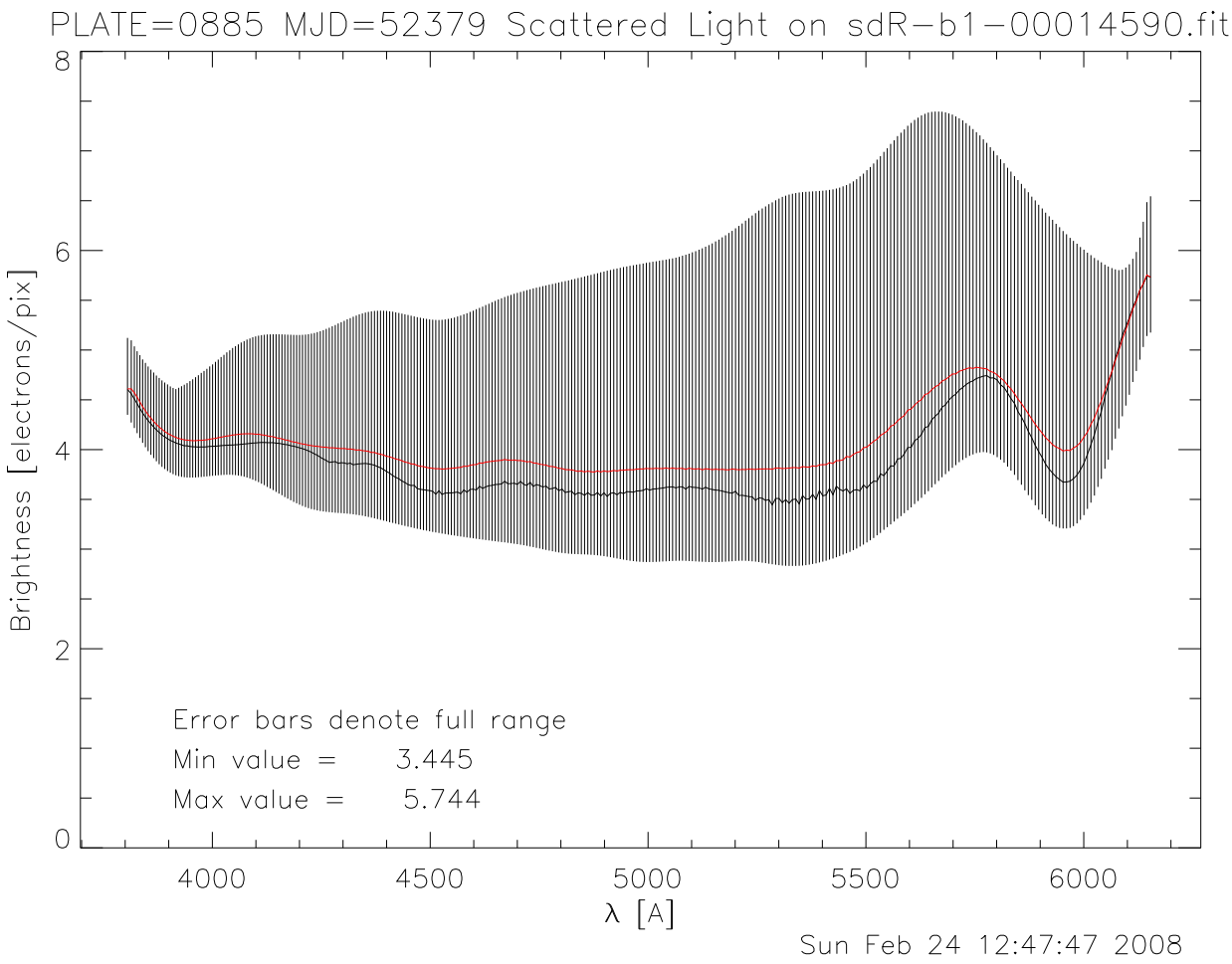

PLATE=0885 MJD=52379 Arcline Fit for sdR-b1-00014589.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 12:43:29 2008

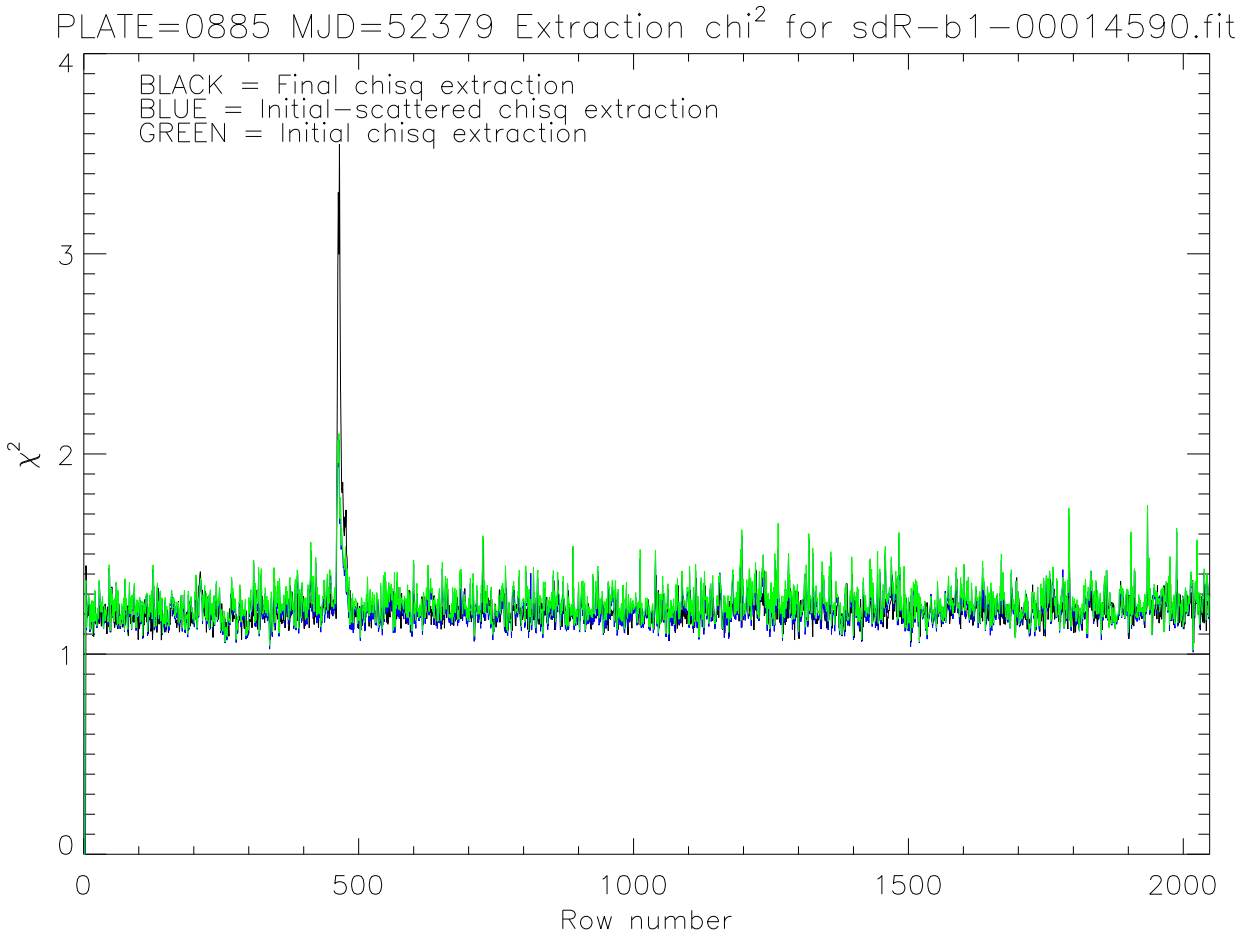

PLATE=0885 MJD=52379 Fiber-Flats for sdR-b1-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.521
Max value = 1.248
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 12:43:37 2008

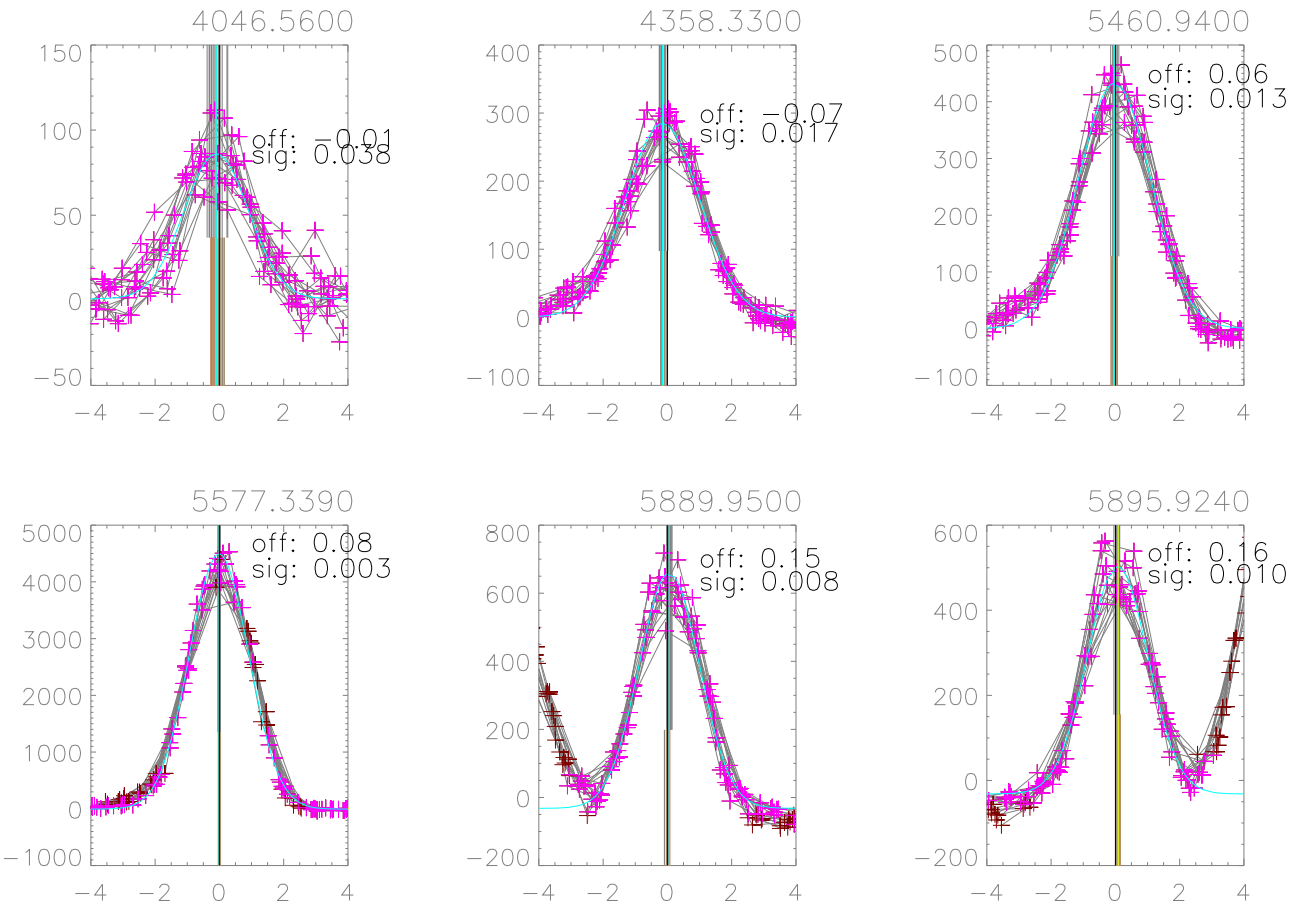

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR−b1−00014590.f
6.5
6.5
6.5
6.5
6.5
8.4
8.4
8.4
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

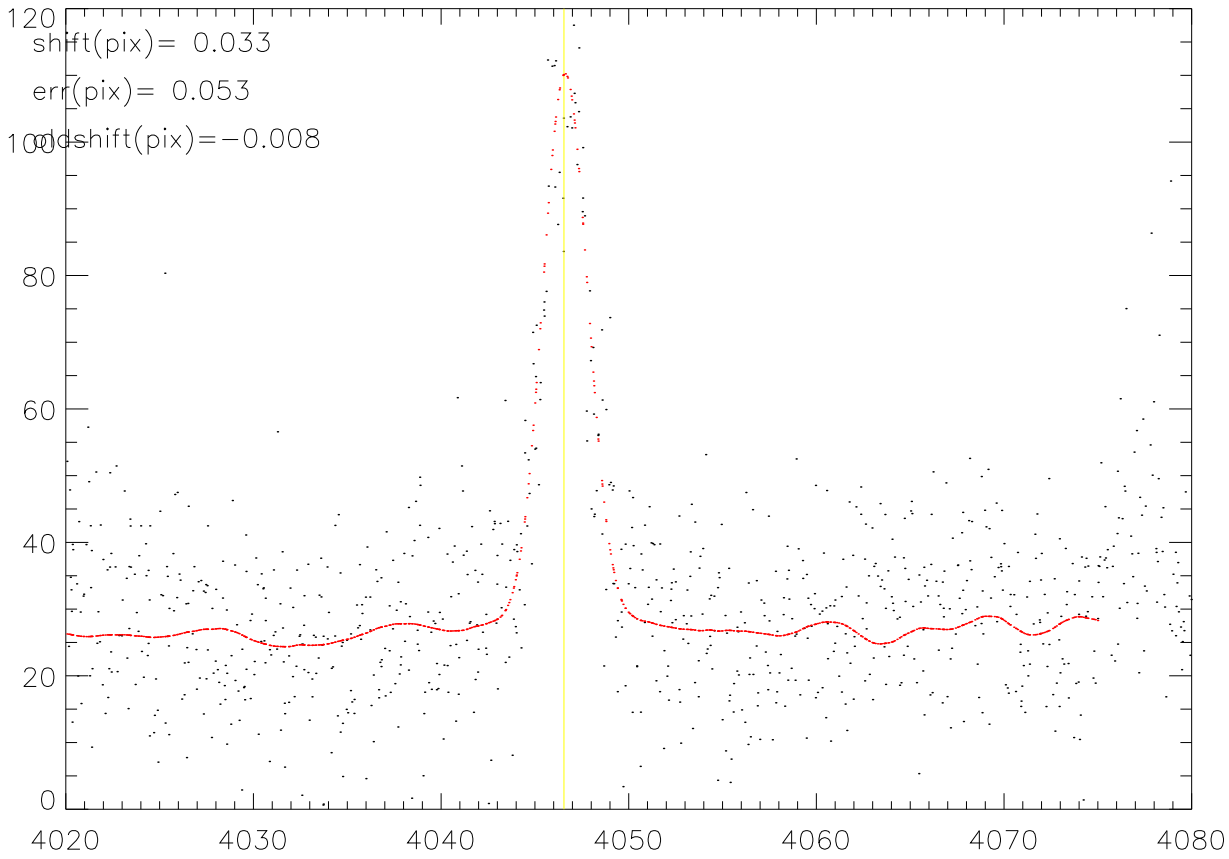

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b1-00014590.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.867
Max value = 8.411
Sun Feb 24 12:44:33 2008

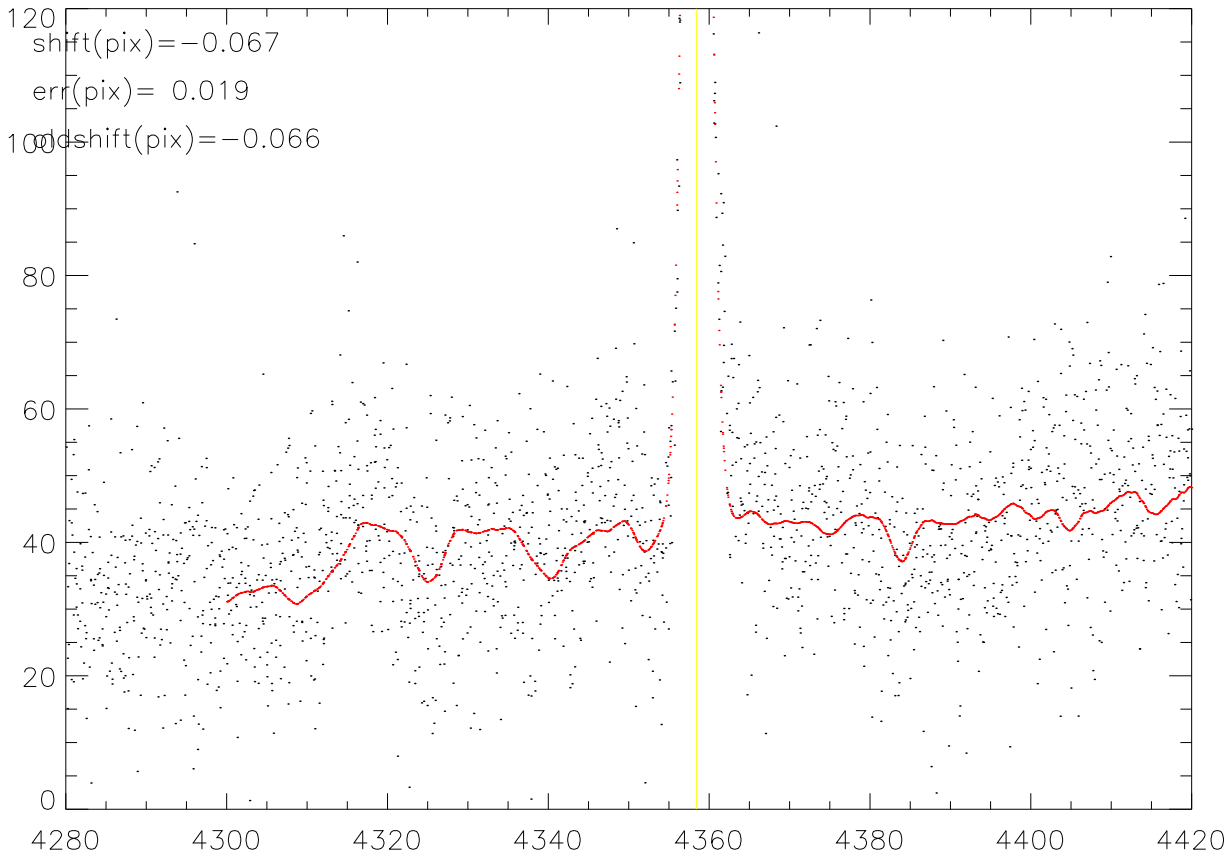

PLATE=0885 MJD=52379 Scattered Light on sdR-b1-00014590.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.73
3.64
5.82
0

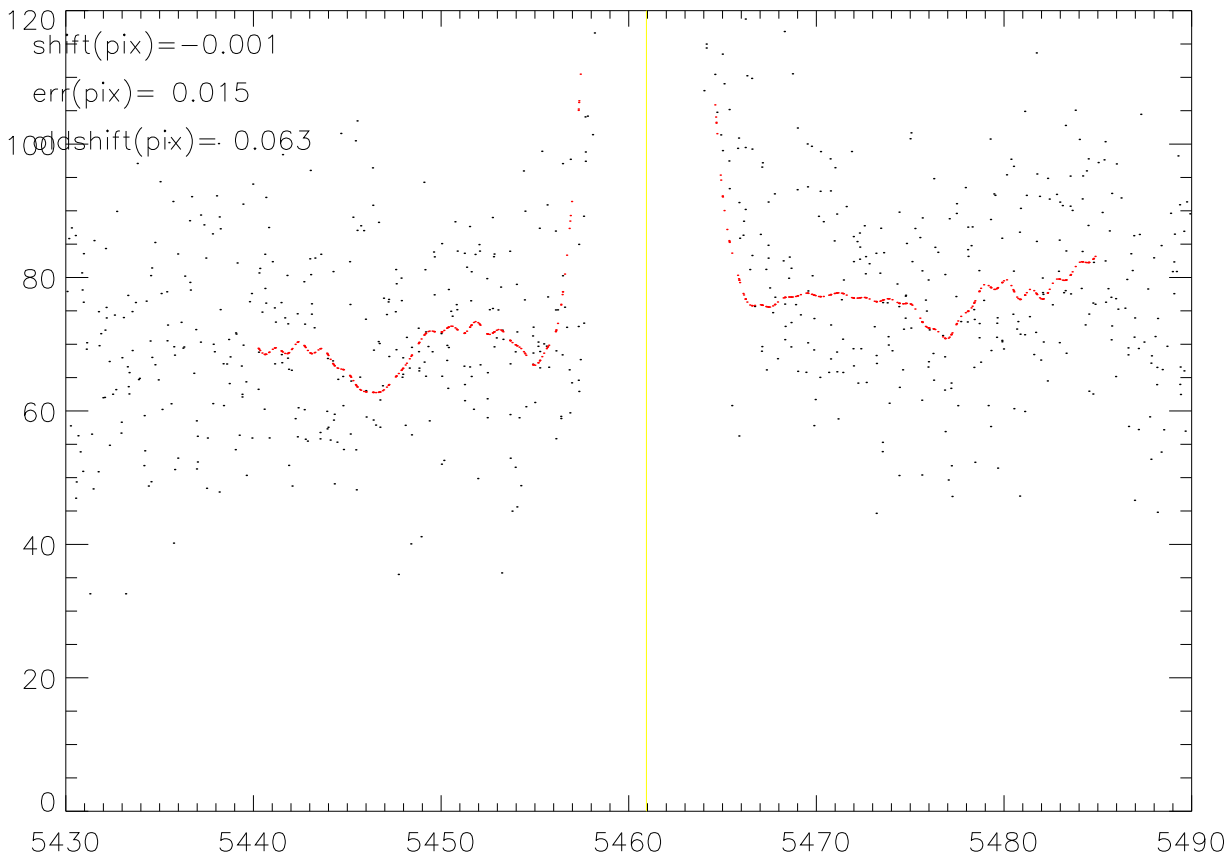

PLATE=0885 MJD=52379 Scattered Light on sdR-b1-00014590.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.445
Max value = 5.744
Sun Feb 24 12:47:47 2008

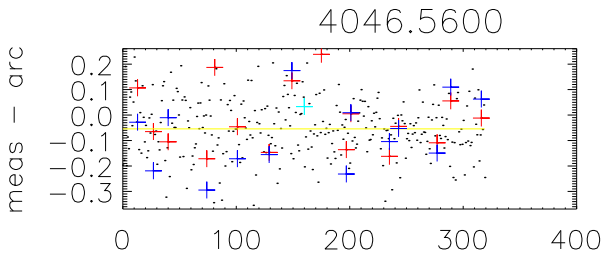

PLATE=0885 MJD=52379 Extraction chi^2 for sdR−b1−00014590.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

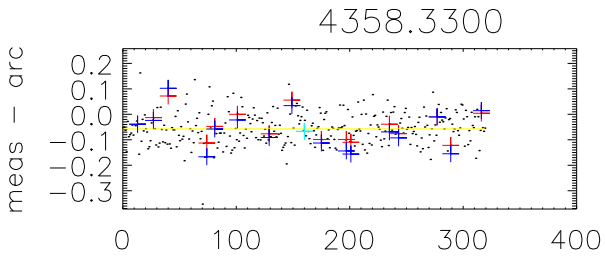

4046.5600
off: −0.01
sig: 0.038
4358.3300
off: −0.07
sig: 0.017
5460.9400
off: 0.06
sig: 0.013
5577.3390
off: 0.08
sig: 0.003
5889.9500
off: 0.15
sig: 0.008
5895.9240
off: 0.16
sig: 0.010

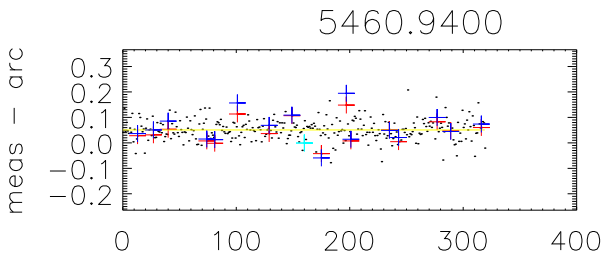

shift(pix)= 0.033
err(pix)= 0.053
oldshift(pix)=−0.008
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

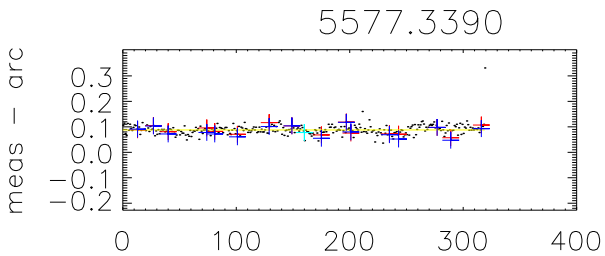

shift(pix)=−0.067
err(pix)= 0.019
oldshift(pix)=−0.066
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

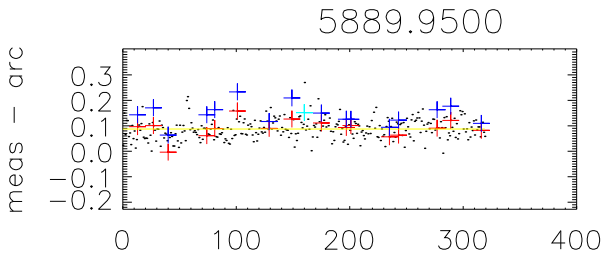

shift(pix)=−0.001
err(pix)= 0.015
oldshift(pix)= 0.063
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

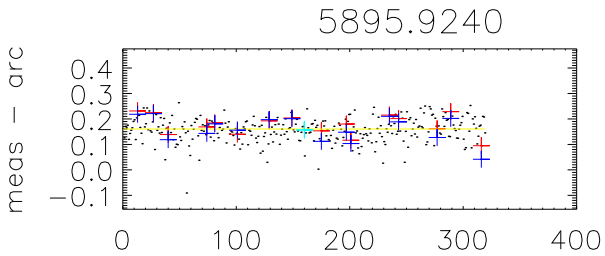

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

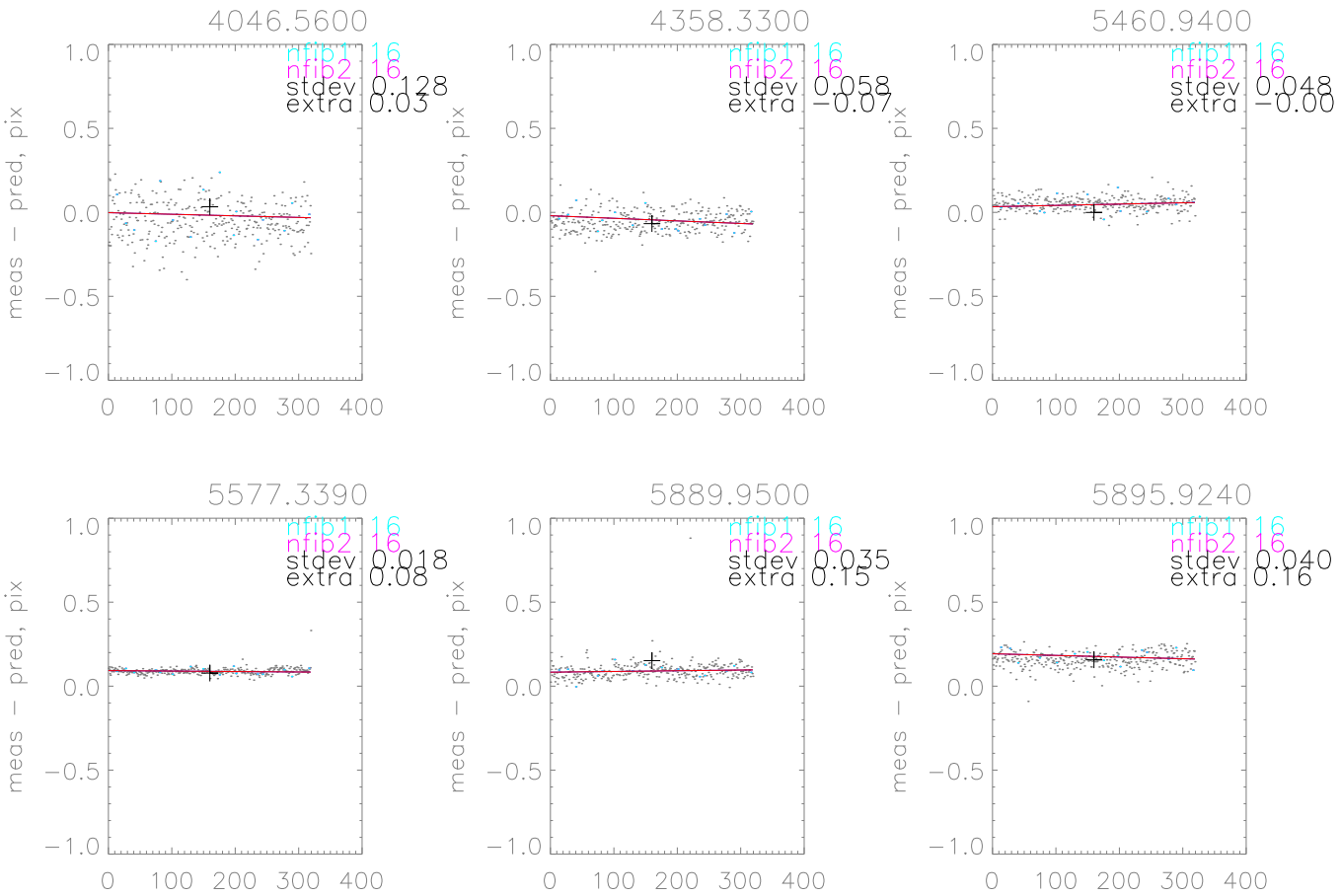

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

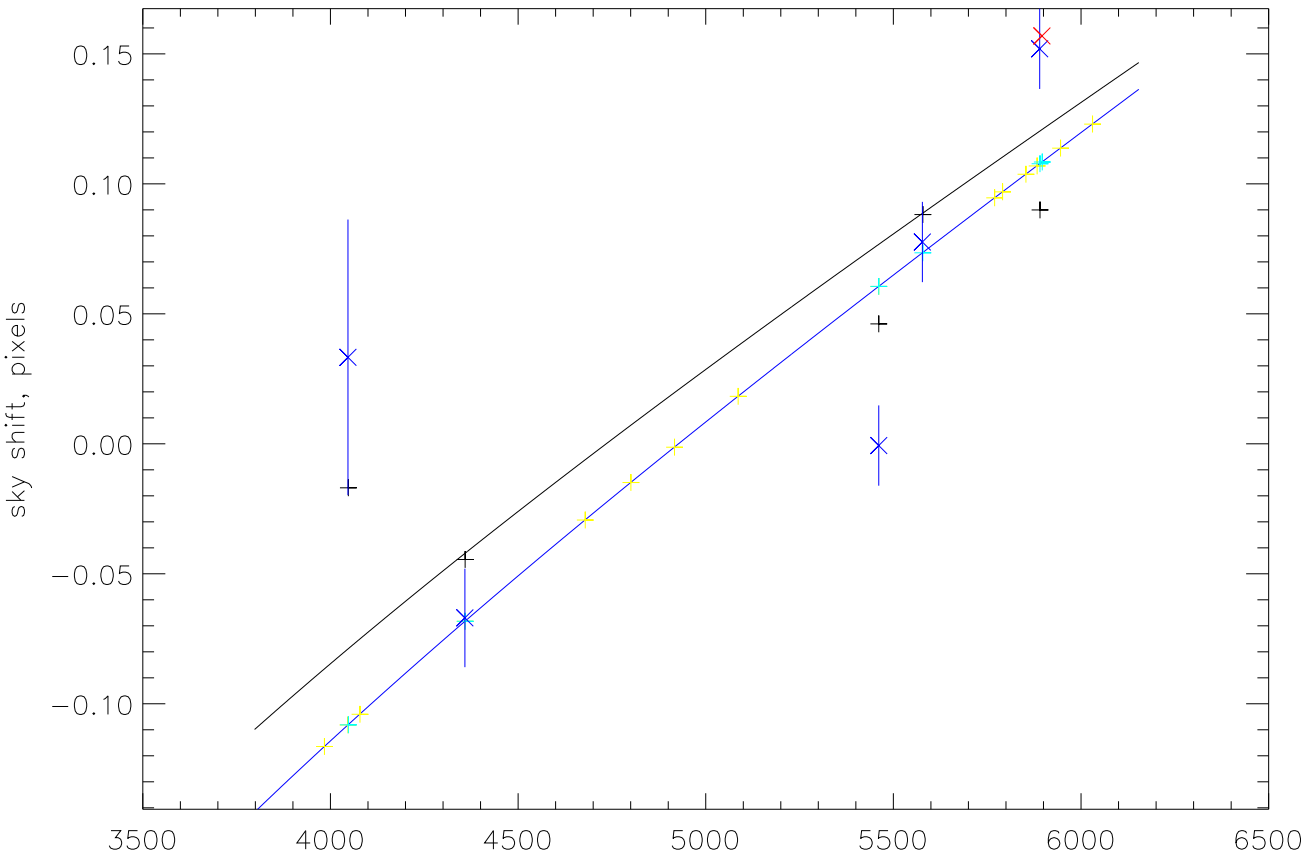

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

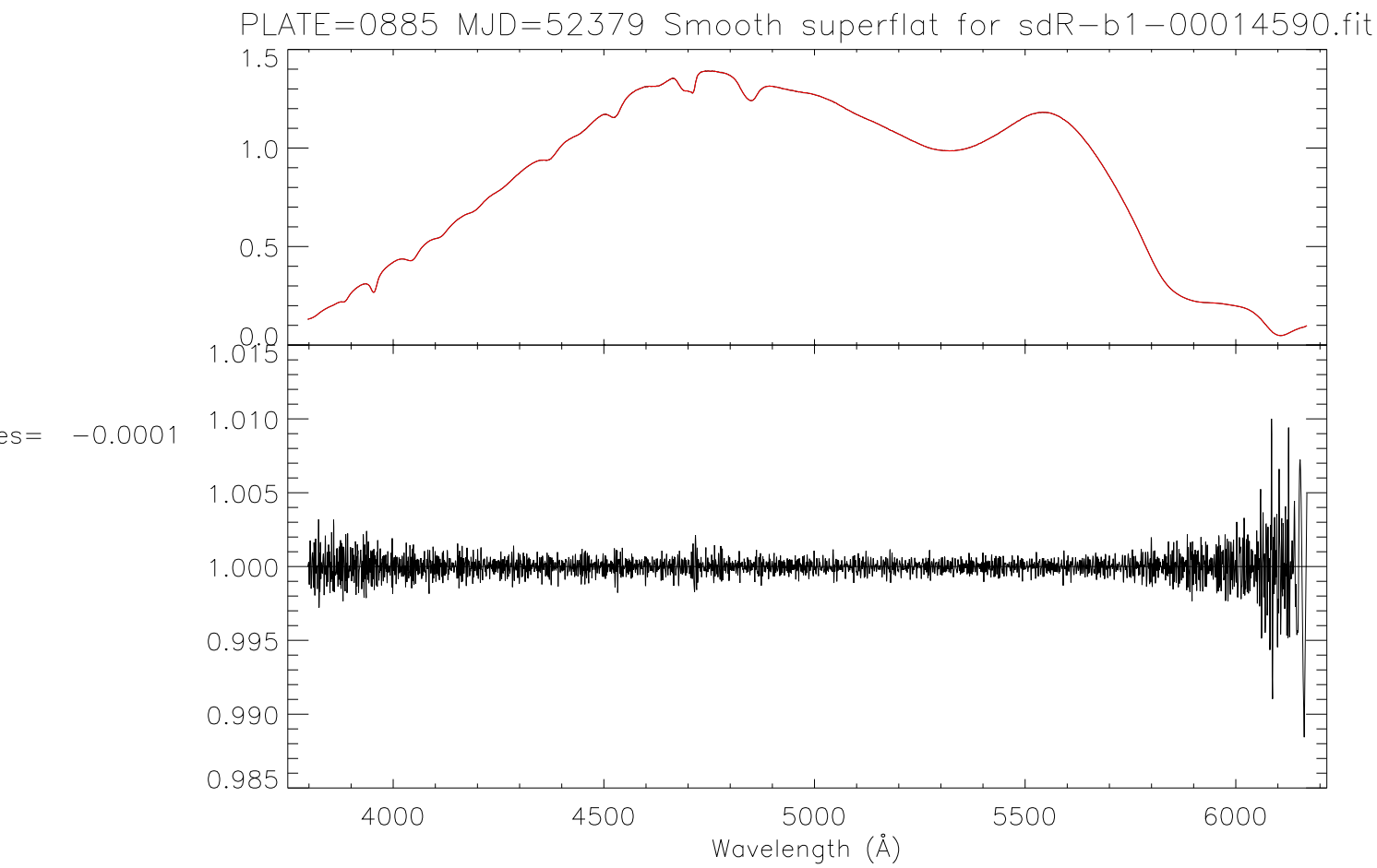

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

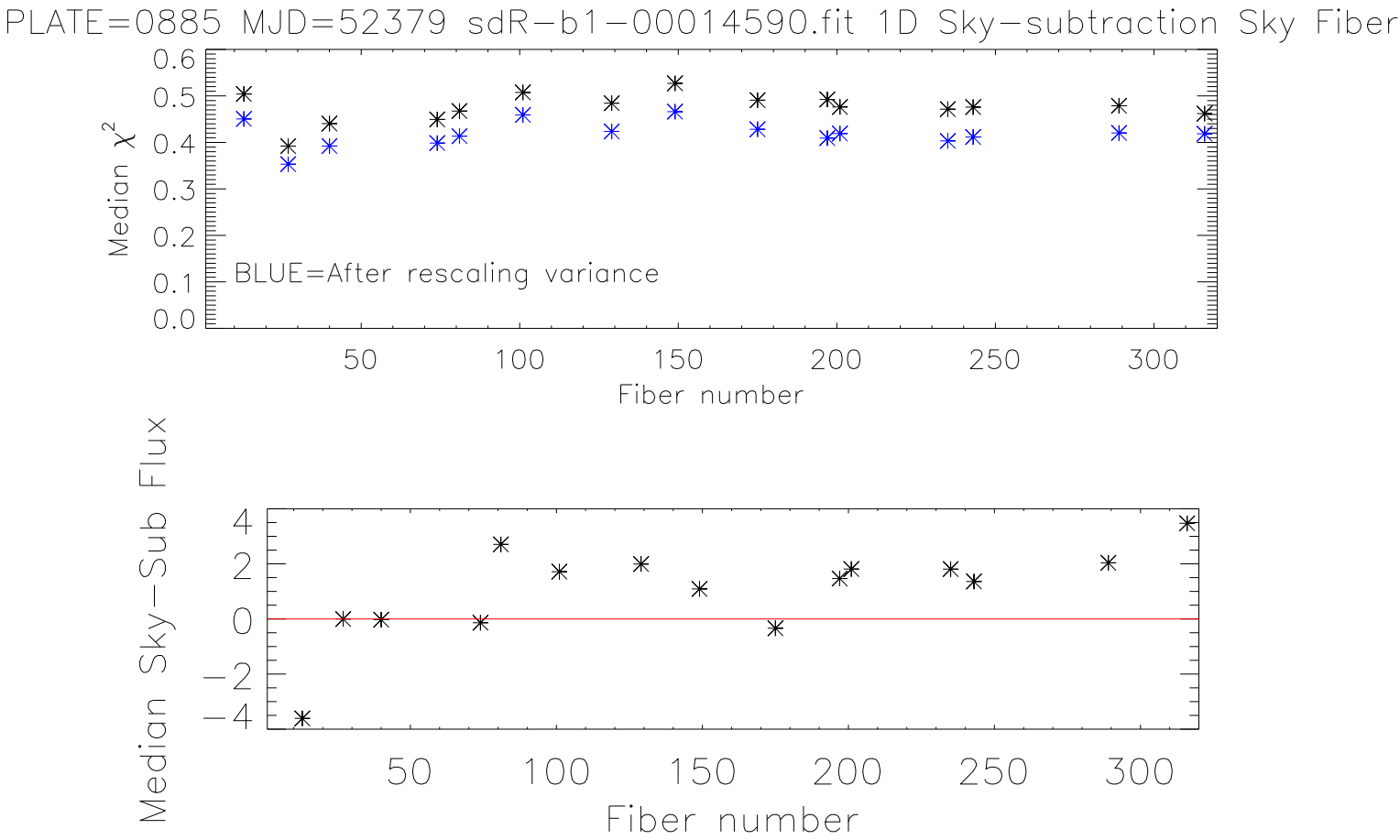

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

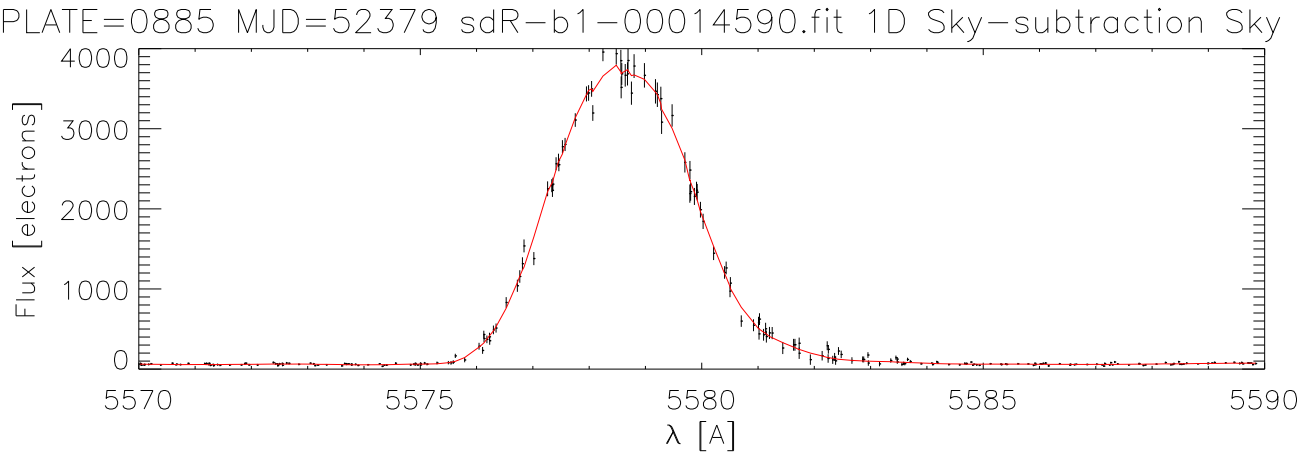

4046.5600
nfib1 16
nfib2 16
stdev 0.128
extra 0.03
4358.3300
nfib1 16
nfib2 16
stdev 0.058
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.048
extra −0.00
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra 0.08
5889.9500
nfib1 16
nfib2 16
stdev 0.035
extra 0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.040
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

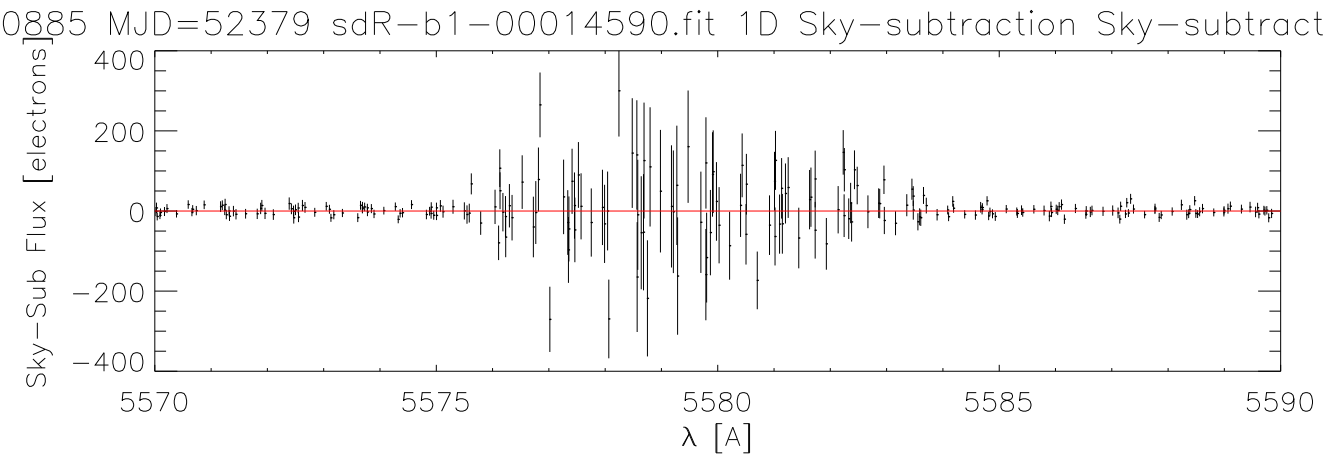

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500

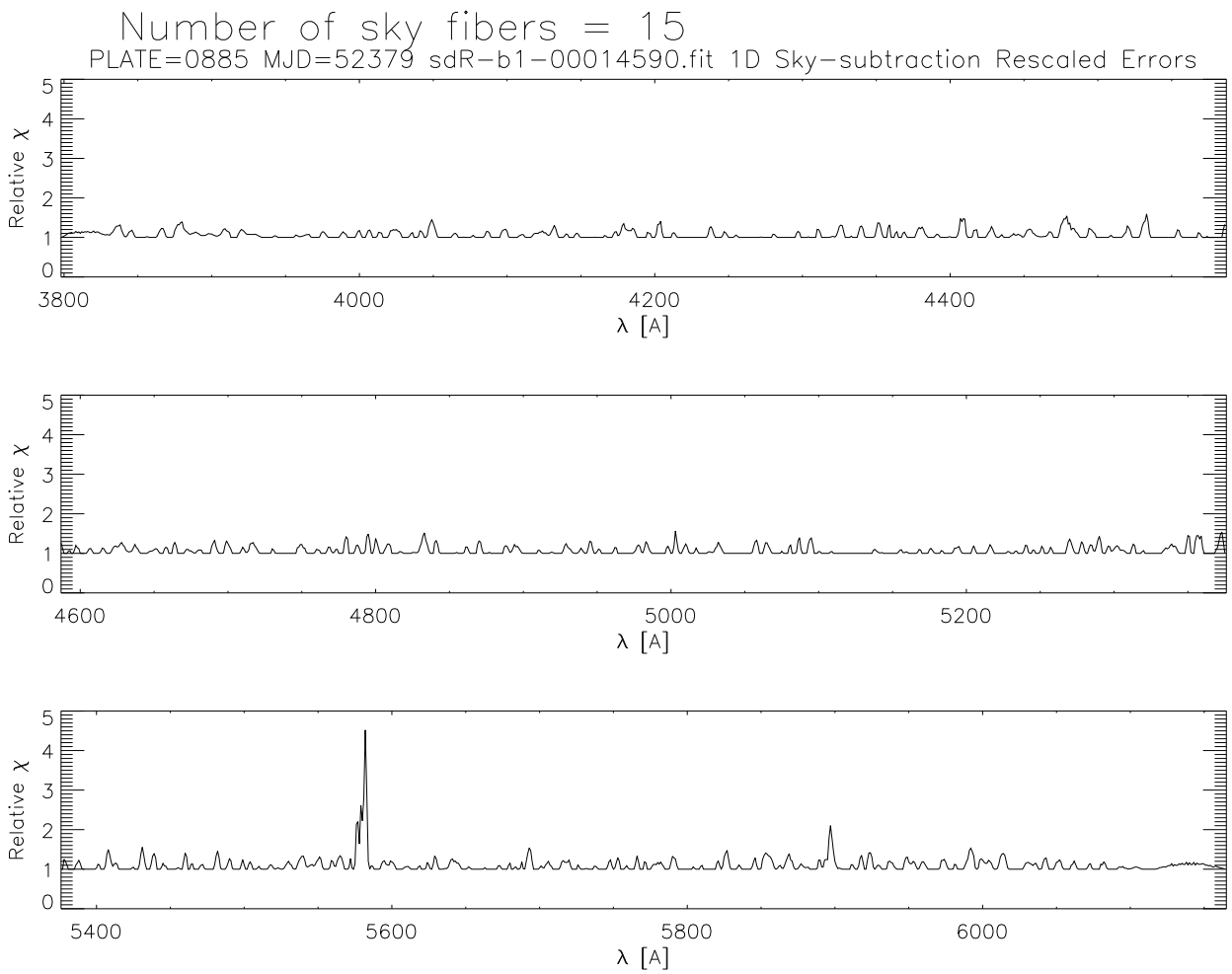

PLATE=0885 MJD=52379 Smooth superflat for sdR-b1-00014590.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

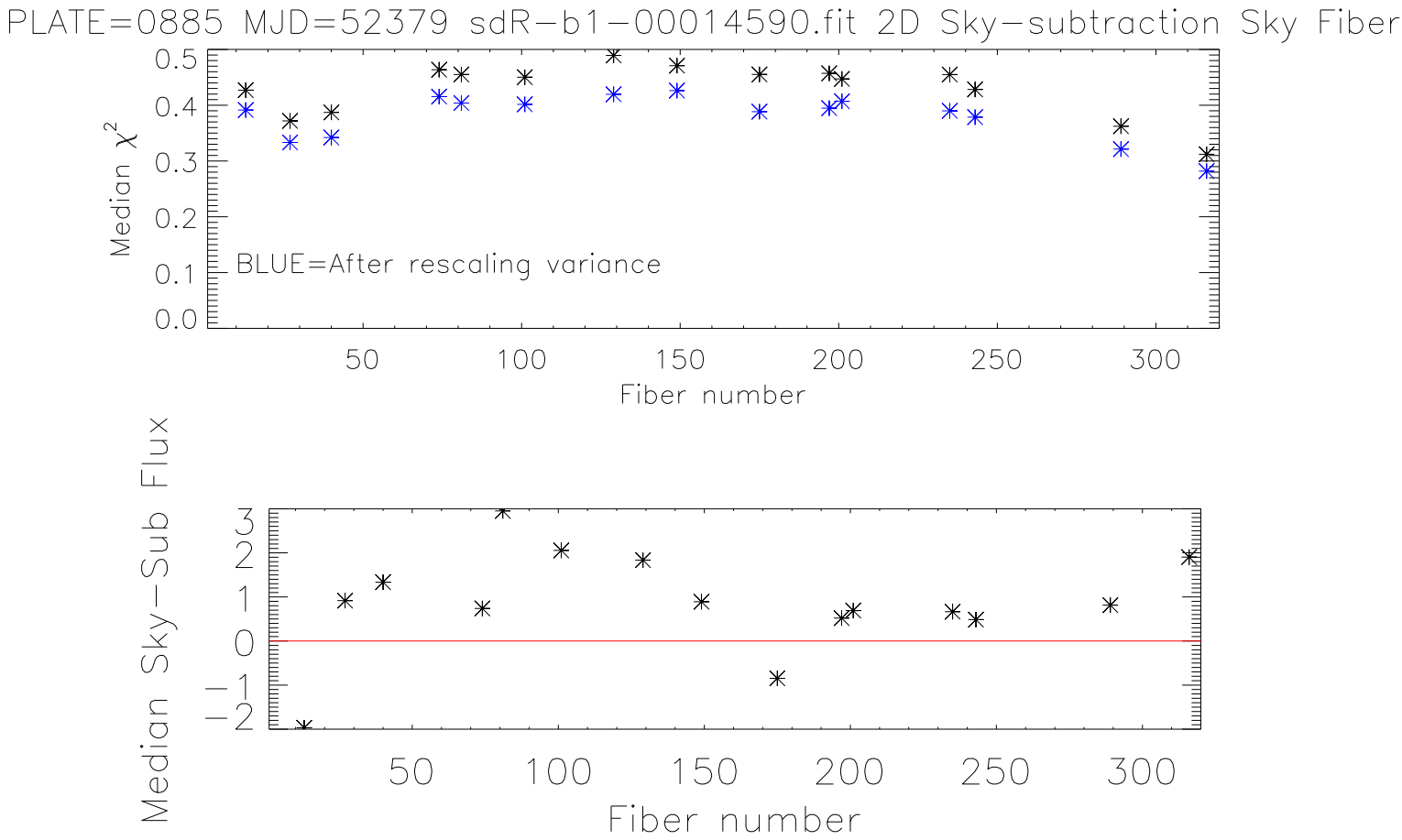
es= −0.0001

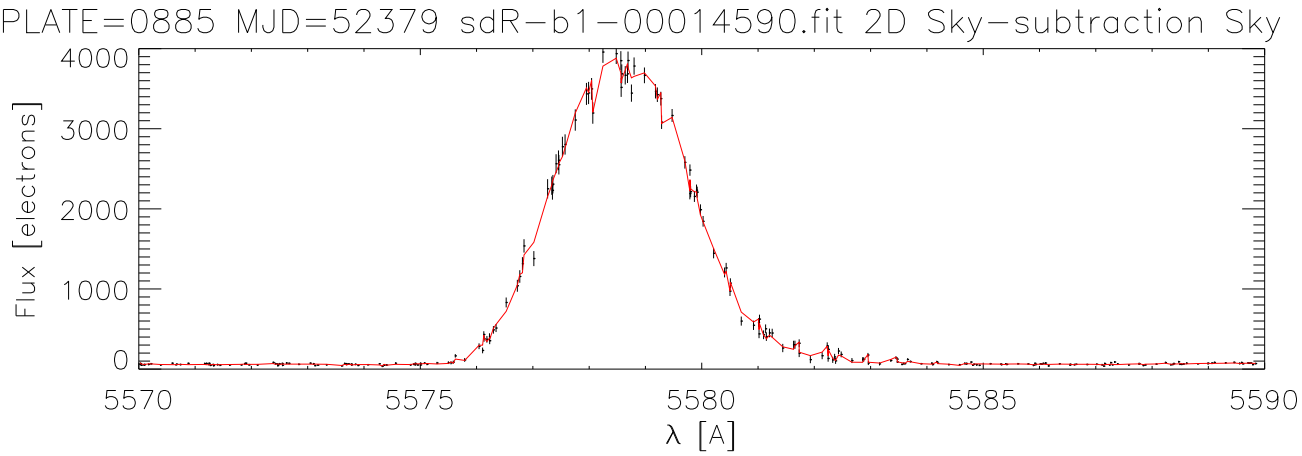

PLATE=0885 MJD=52379 sdR-b1-00014590.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
2
0
-2
-4
50
100
150
200
250
300
Fiber number

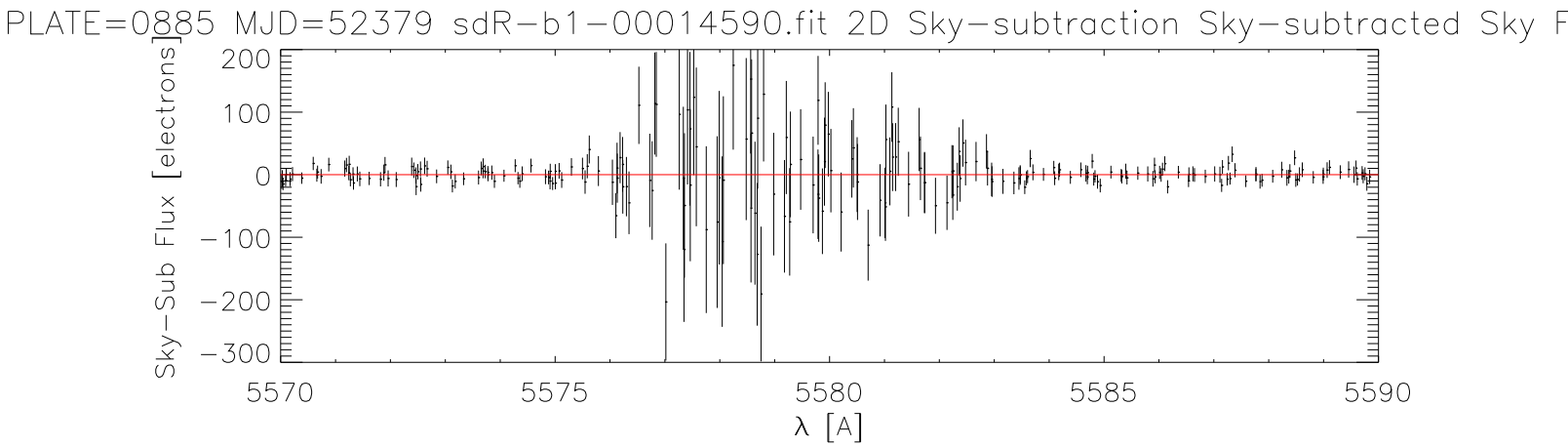

PLATE=0885 MJD=52379 sdR-b1-00014590.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

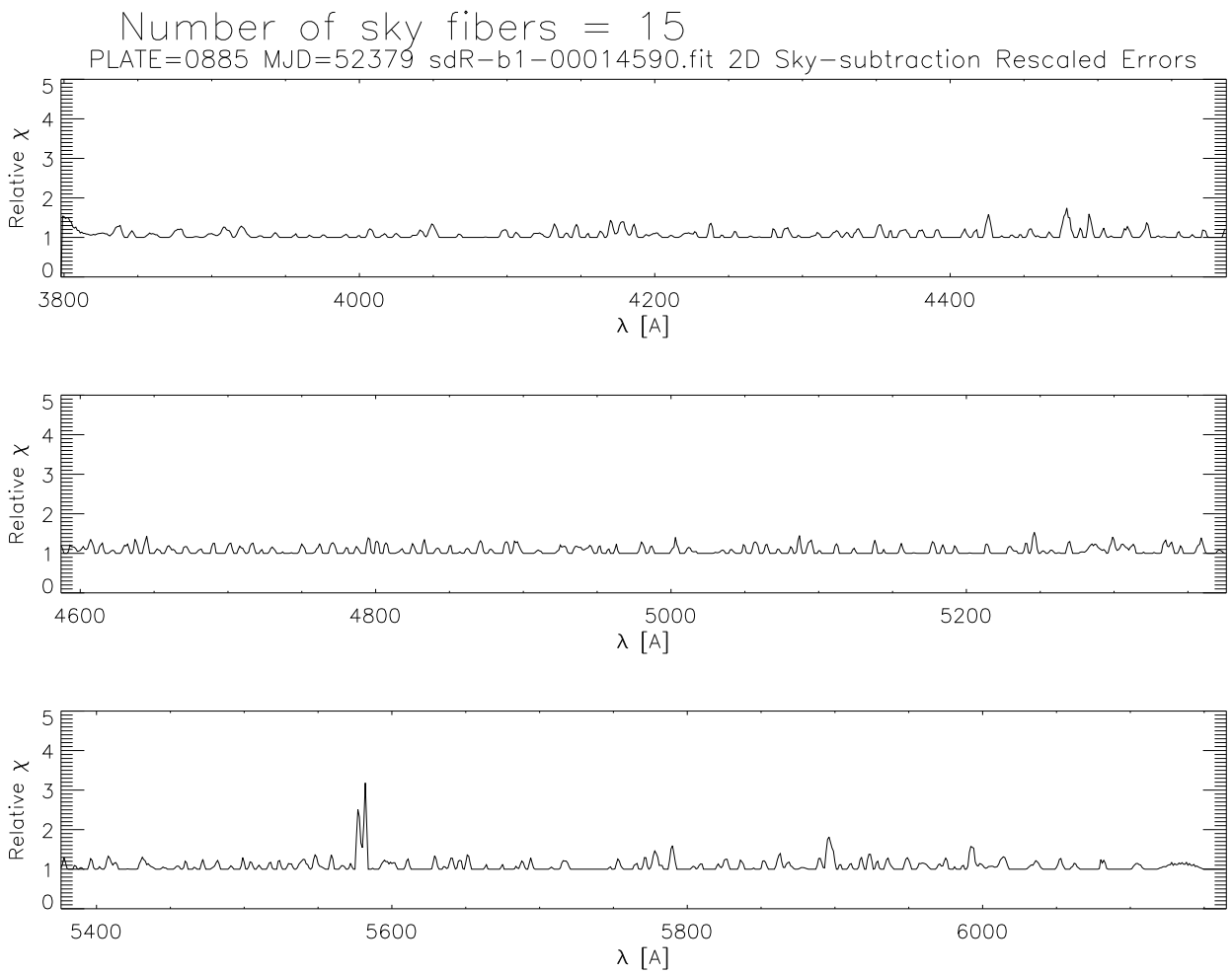

PLATE=0885 MJD=52379 sdR-b1-00014590.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

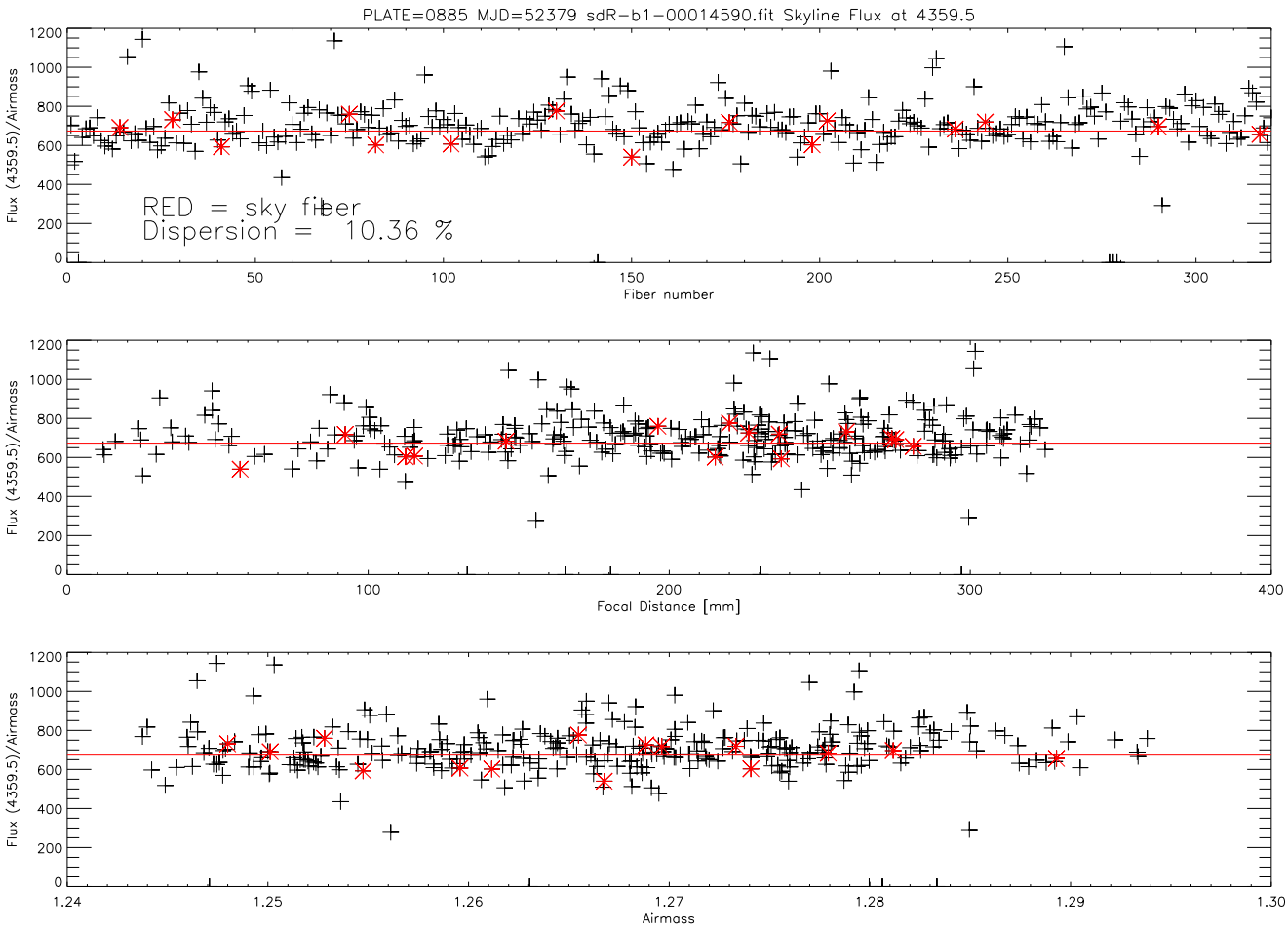

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-b1-00014590.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

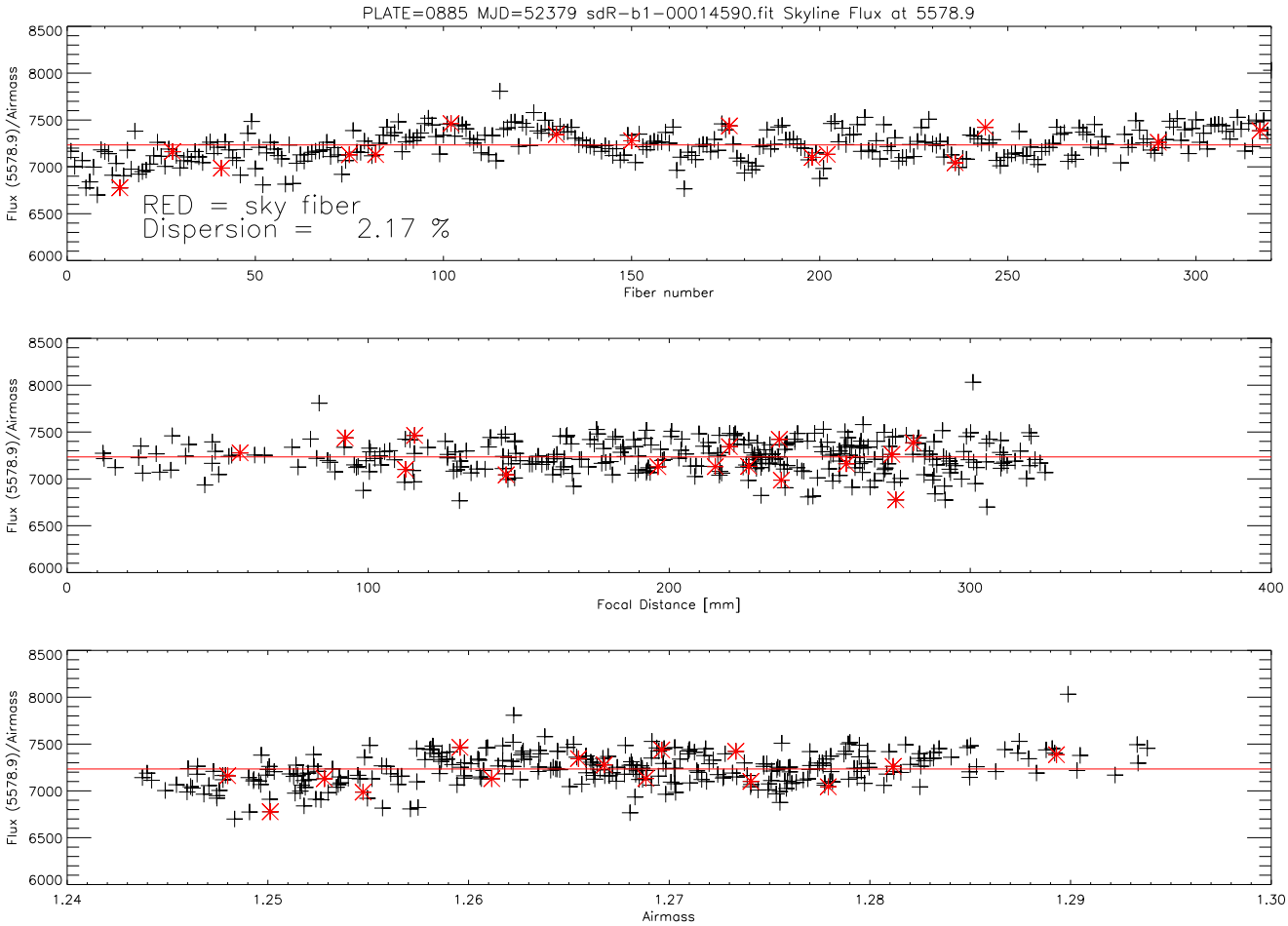

PLATE=0885 MJD=52379 sdR-b1-00014590.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

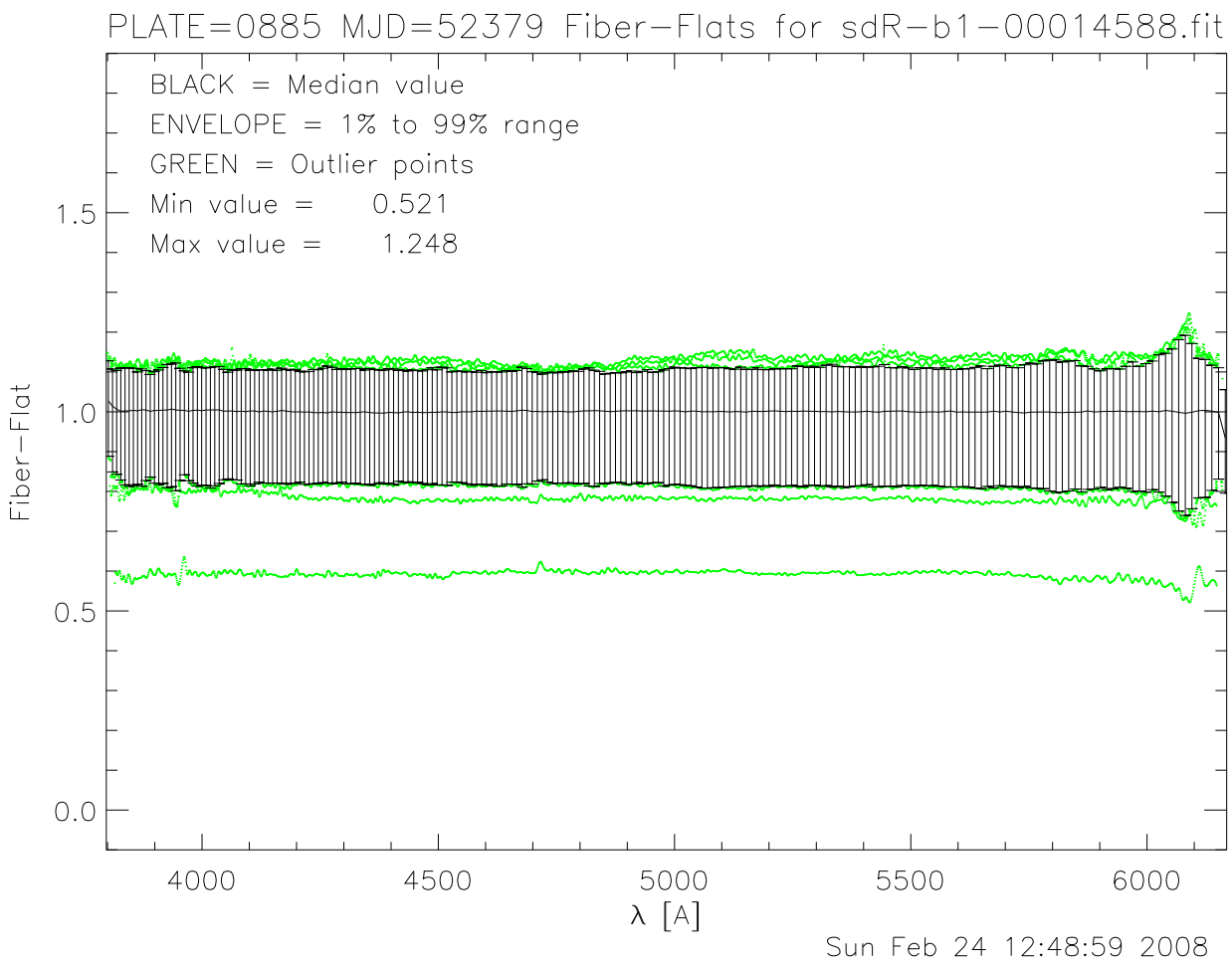

PLATE=0885 MJD=52379 sdR-b1-00014590.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

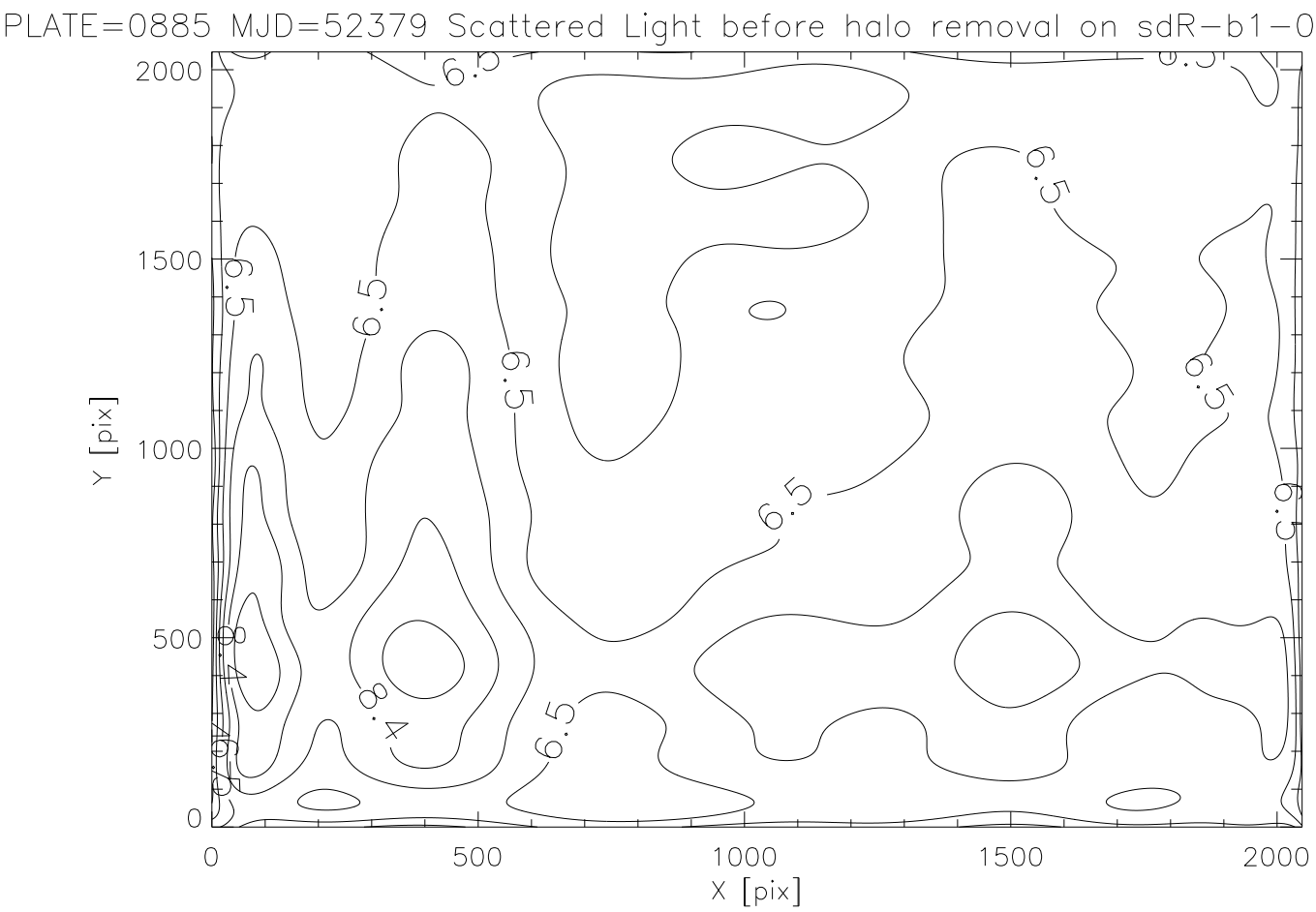

PLATE=0885 MJD=52379 sdR-b1-00014590.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

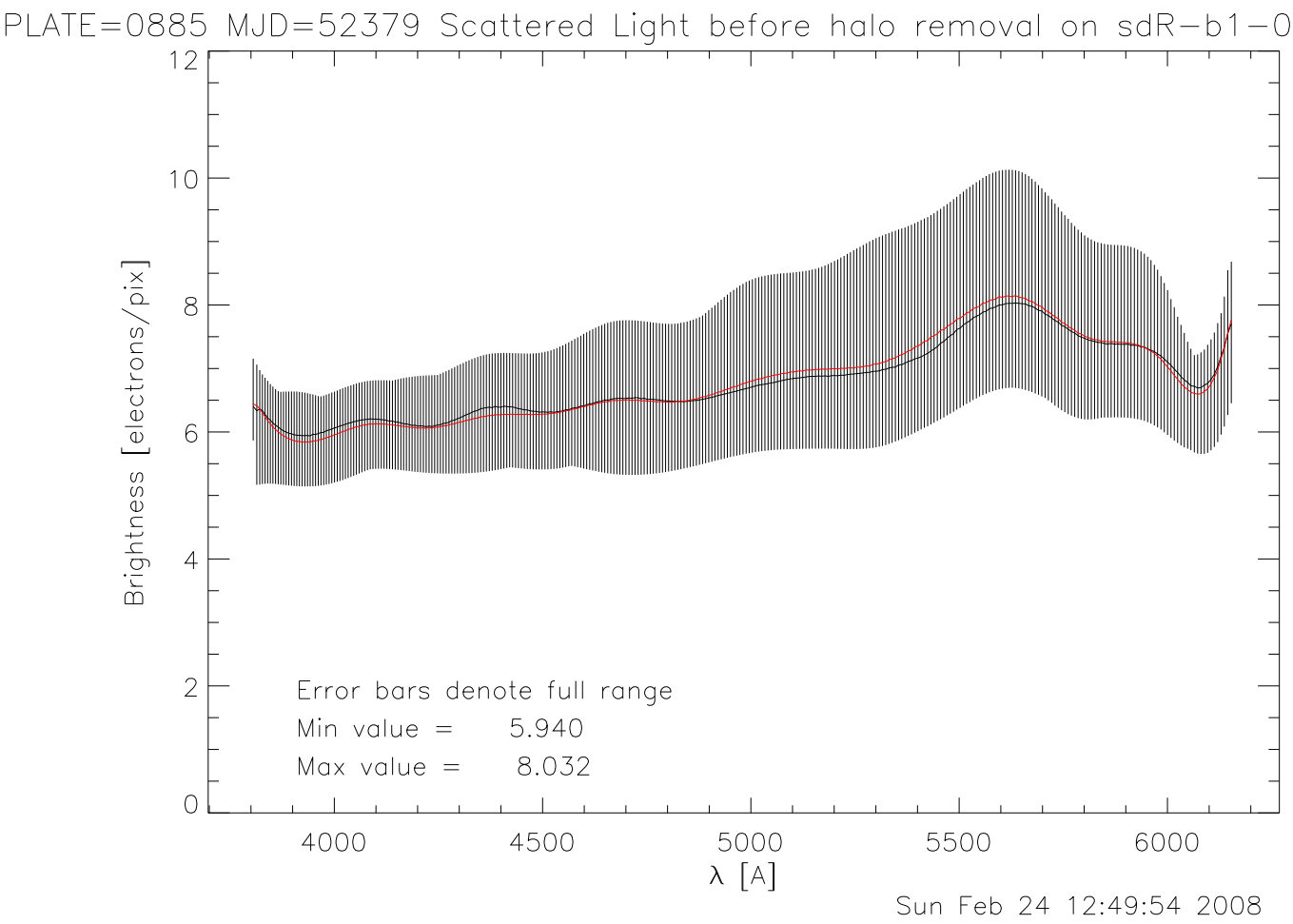

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-b1-00014590.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

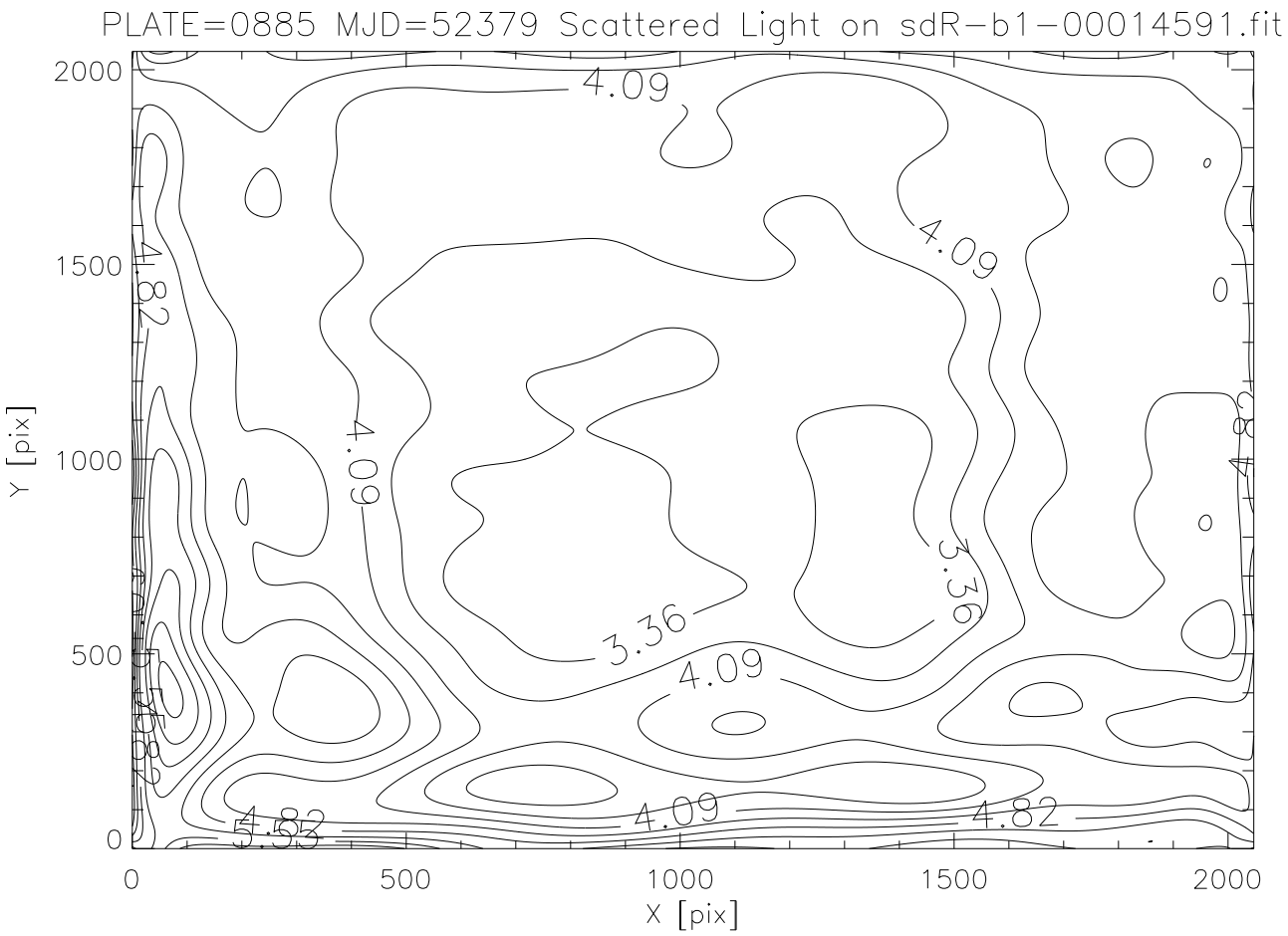

PLATE=0885 MJD=52379 sdR-b1-00014590.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.36 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

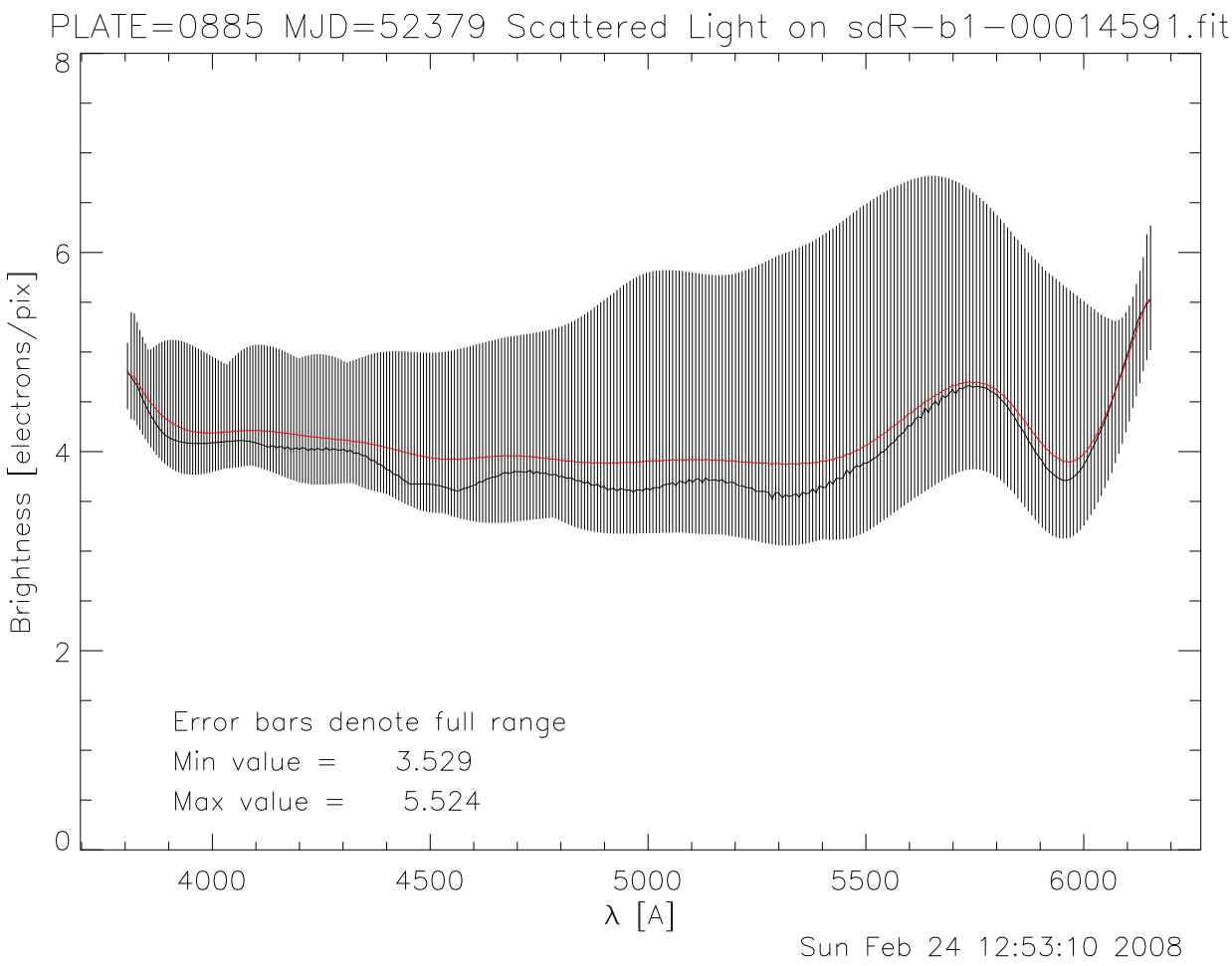

PLATE=0885 MJD=52379 sdR-b1-00014590.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.17 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

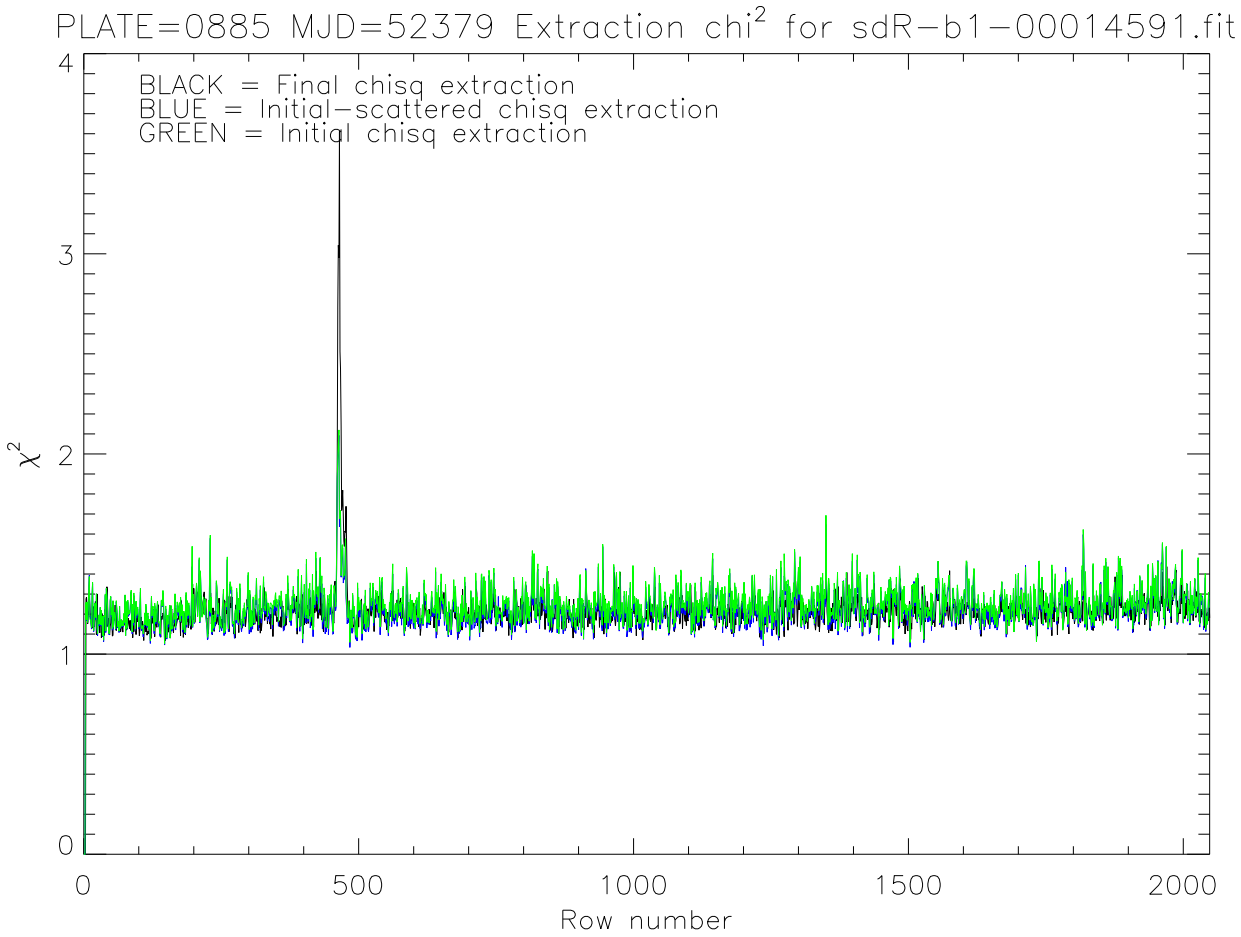

PLATE=0885 MJD=52379 Fiber-Flats for sdR-b1-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.521
Max value = 1.248
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 12:48:59 2008

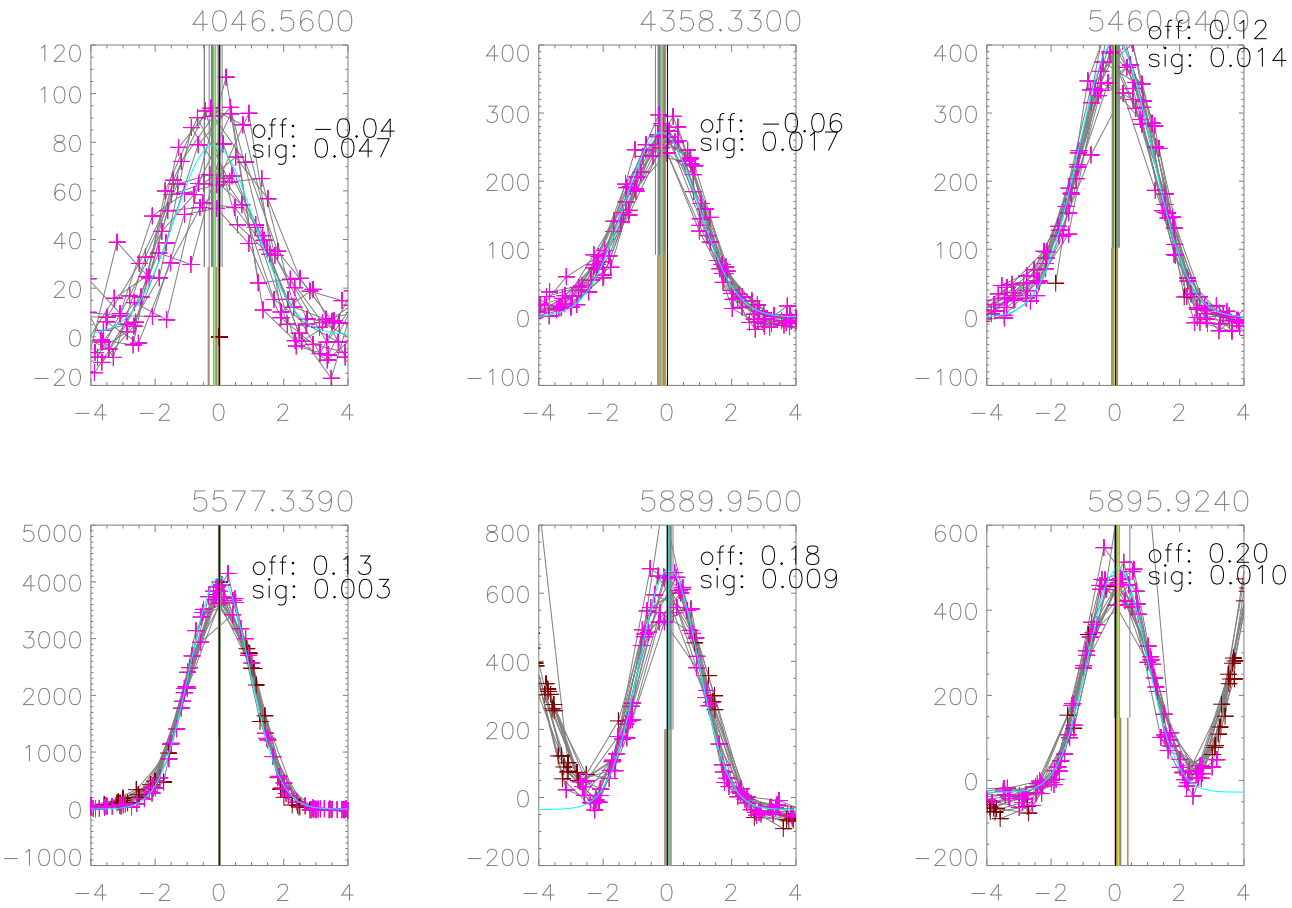

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b1-00014591.f
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
6.4

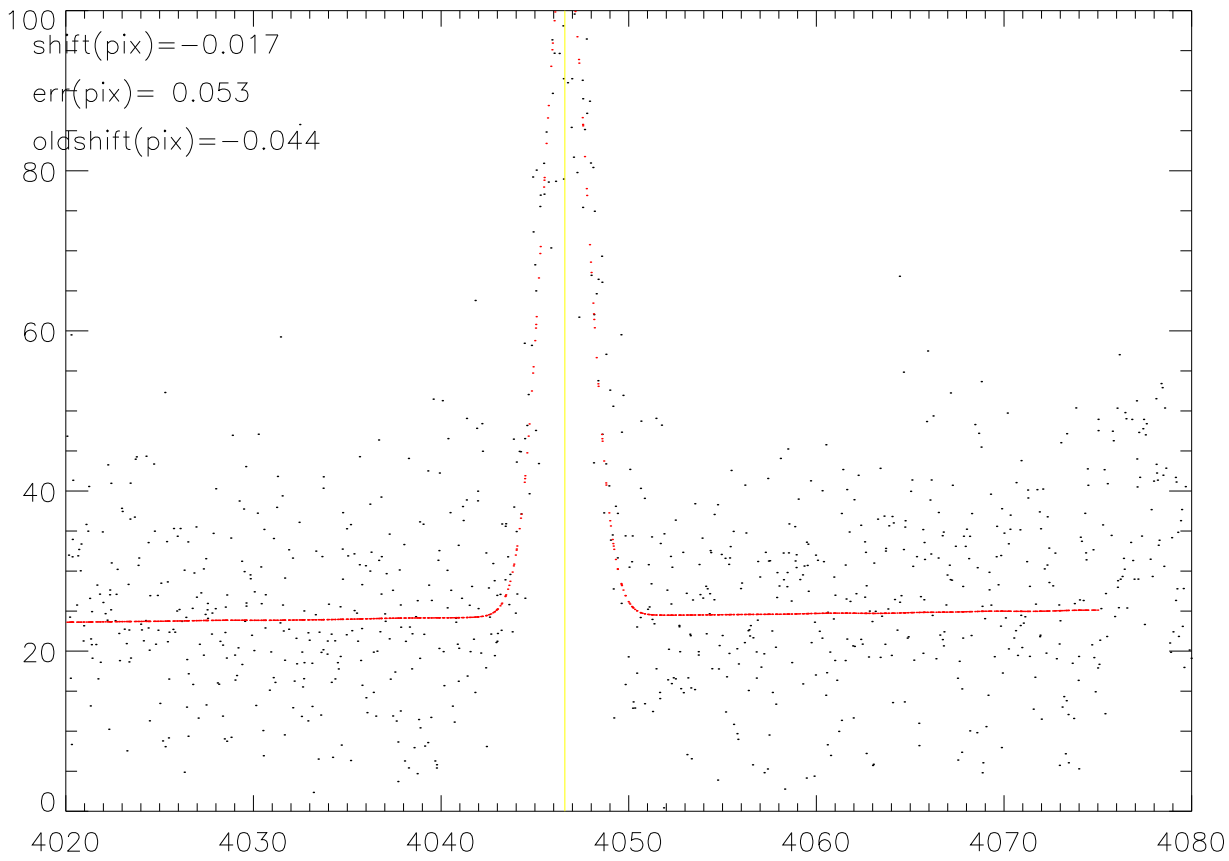

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b1-00014591.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.940
Max value = 8.032
Sun Feb 24 12:49:54 2008

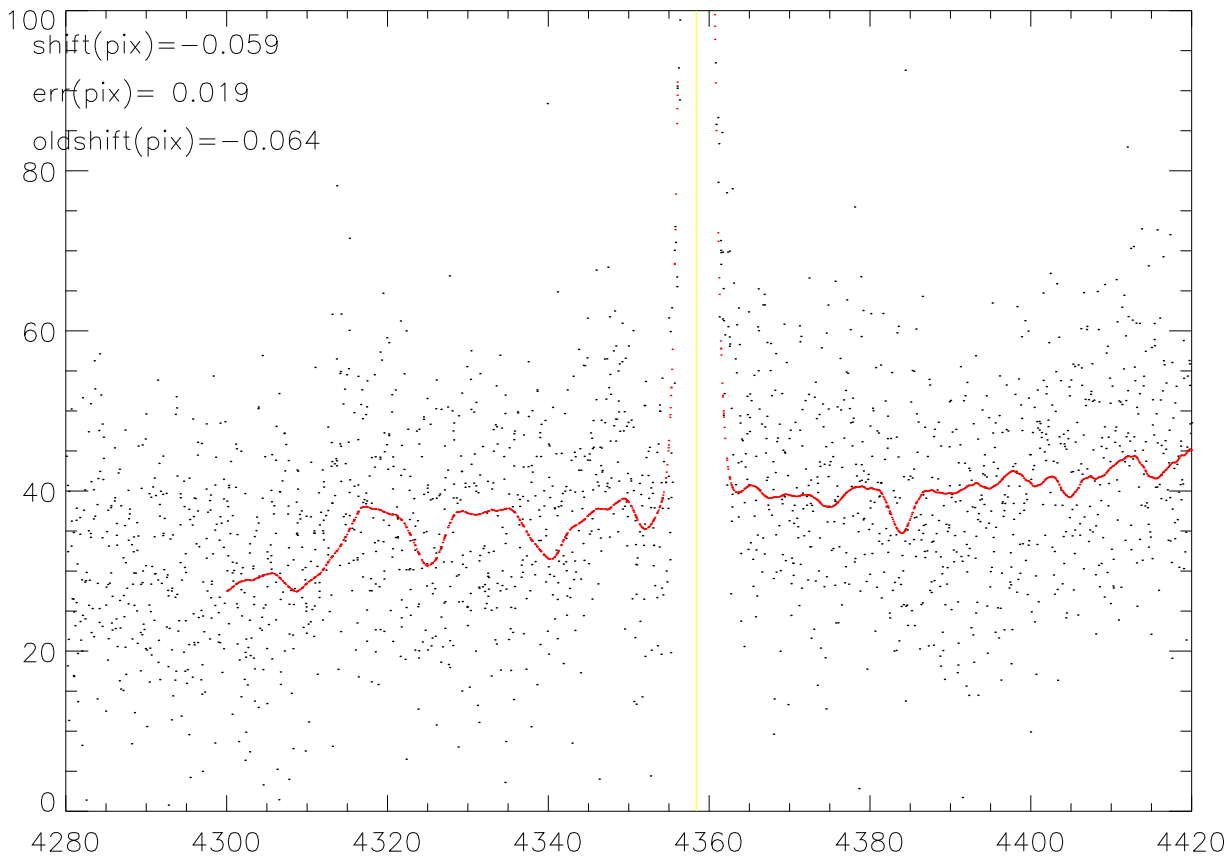

PLATE=0885 MJD=52379 Scattered Light on sdR-b1-00014591.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.09
4.82
3.36
5.55

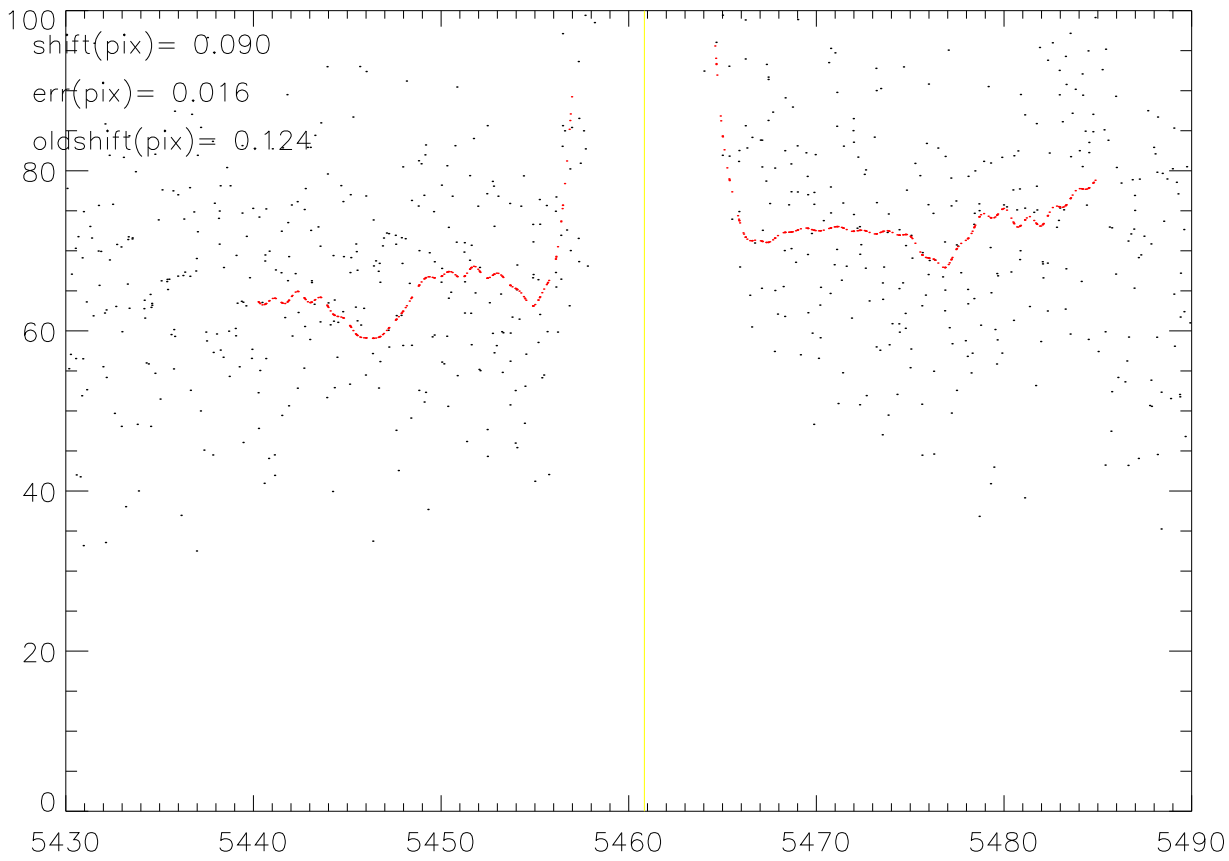

PLATE=0885 MJD=52379 Scattered Light on sdR-b1-00014591.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.529
Max value = 5.524
Sun Feb 24 12:53:10 2008

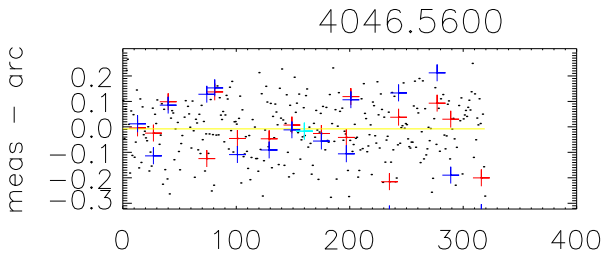

PLATE=0885 MJD=52379 Extraction chi^2 for sdR-b1-00014591.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

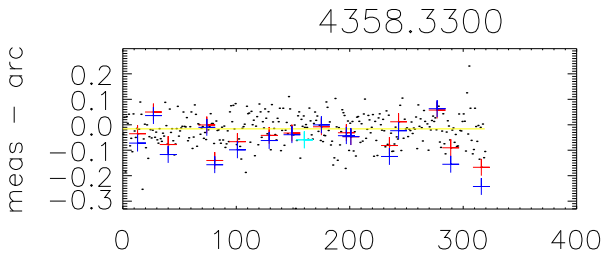

4046.5600
off: −0.04
sig: 0.047
4358.3300
off: −0.06
sig: 0.017
5460.0400
off: 0.12
sig: 0.014
5577.3390
off: 0.13
sig: 0.003
5889.9500
off: 0.18
sig: 0.009
5895.9240
off: 0.20
sig: 0.010

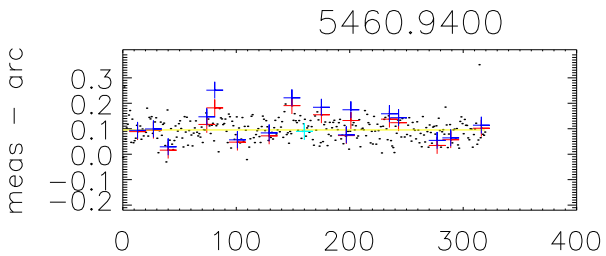

shift(pix)=−0.017
err(pix)= 0.053
oldshift(pix)=−0.044
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

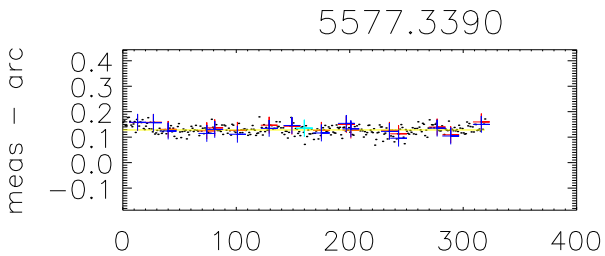

shift(pix)=−0.059
err(pix)= 0.019
oldshift(pix)=−0.064
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

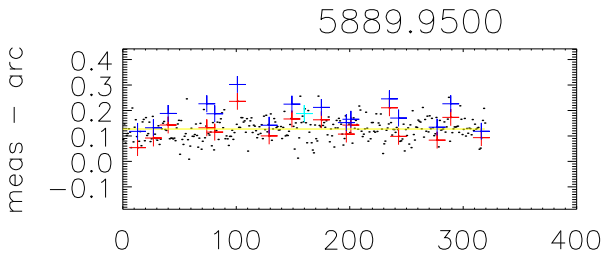

shift(pix)= 0.090
err(pix)= 0.016
oldshift(pix)= 0.124
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

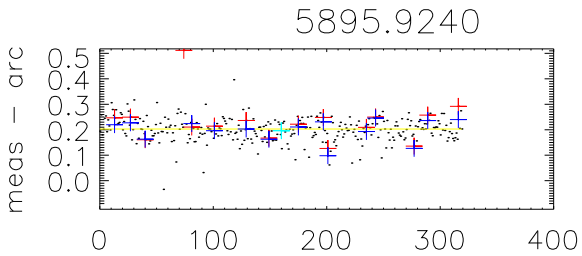

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

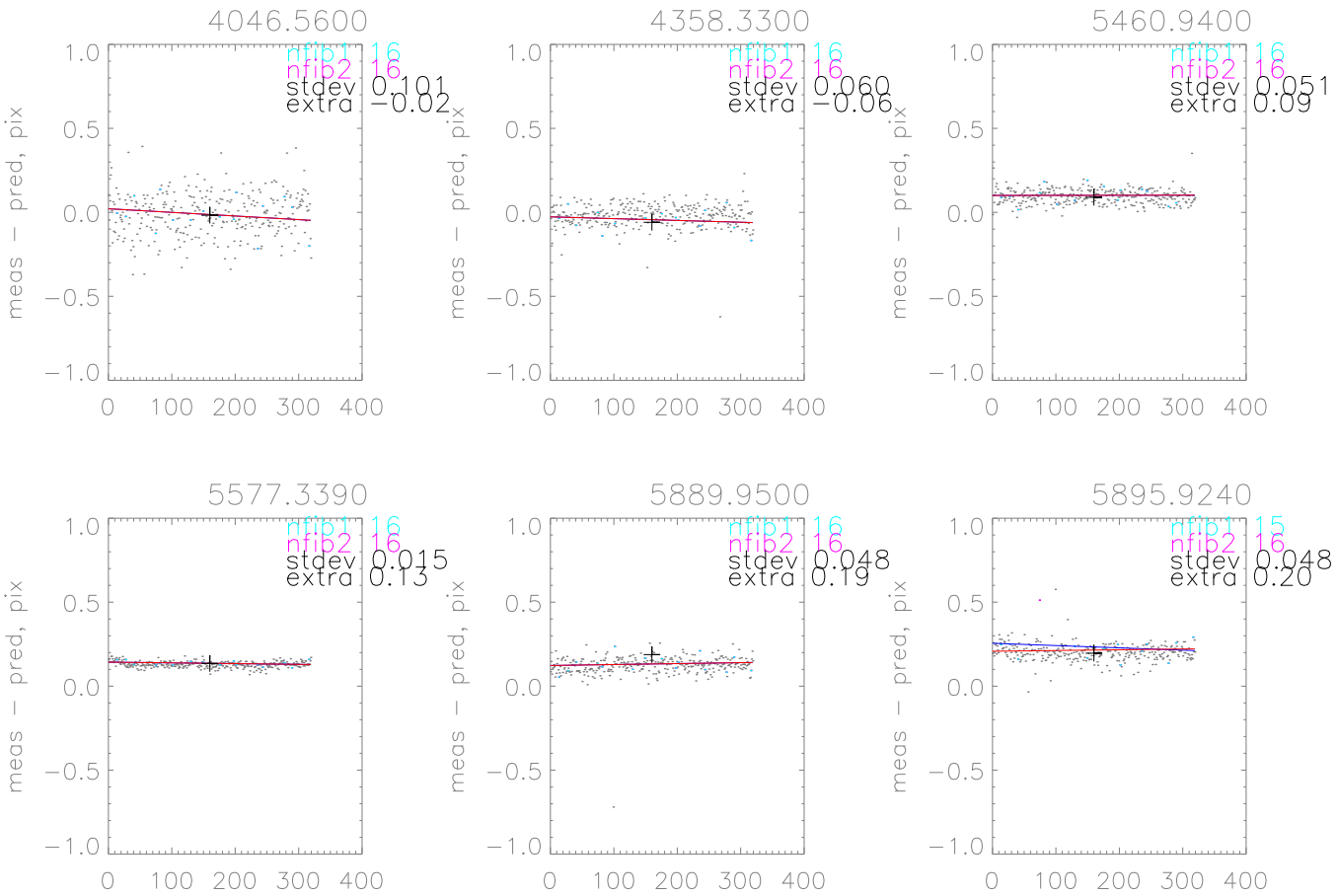

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

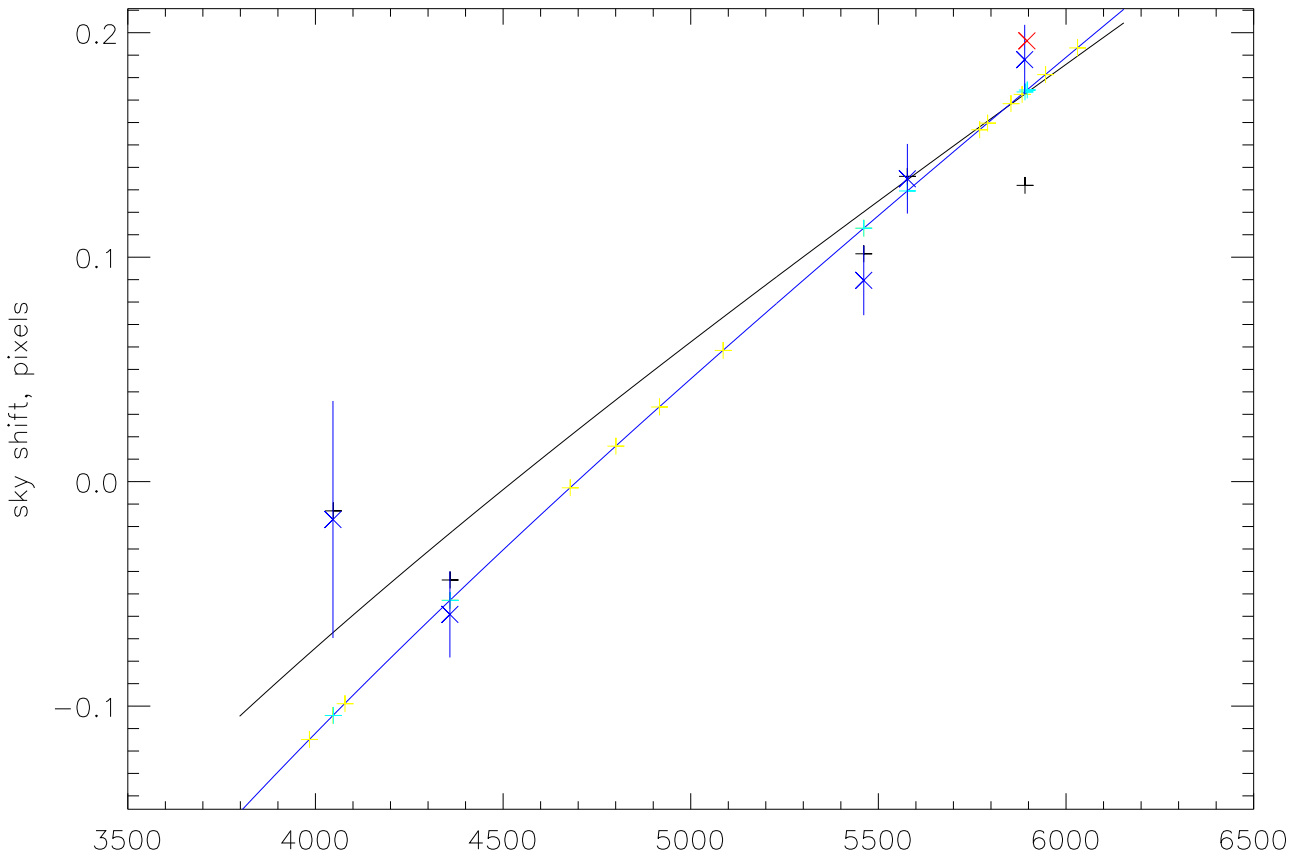

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

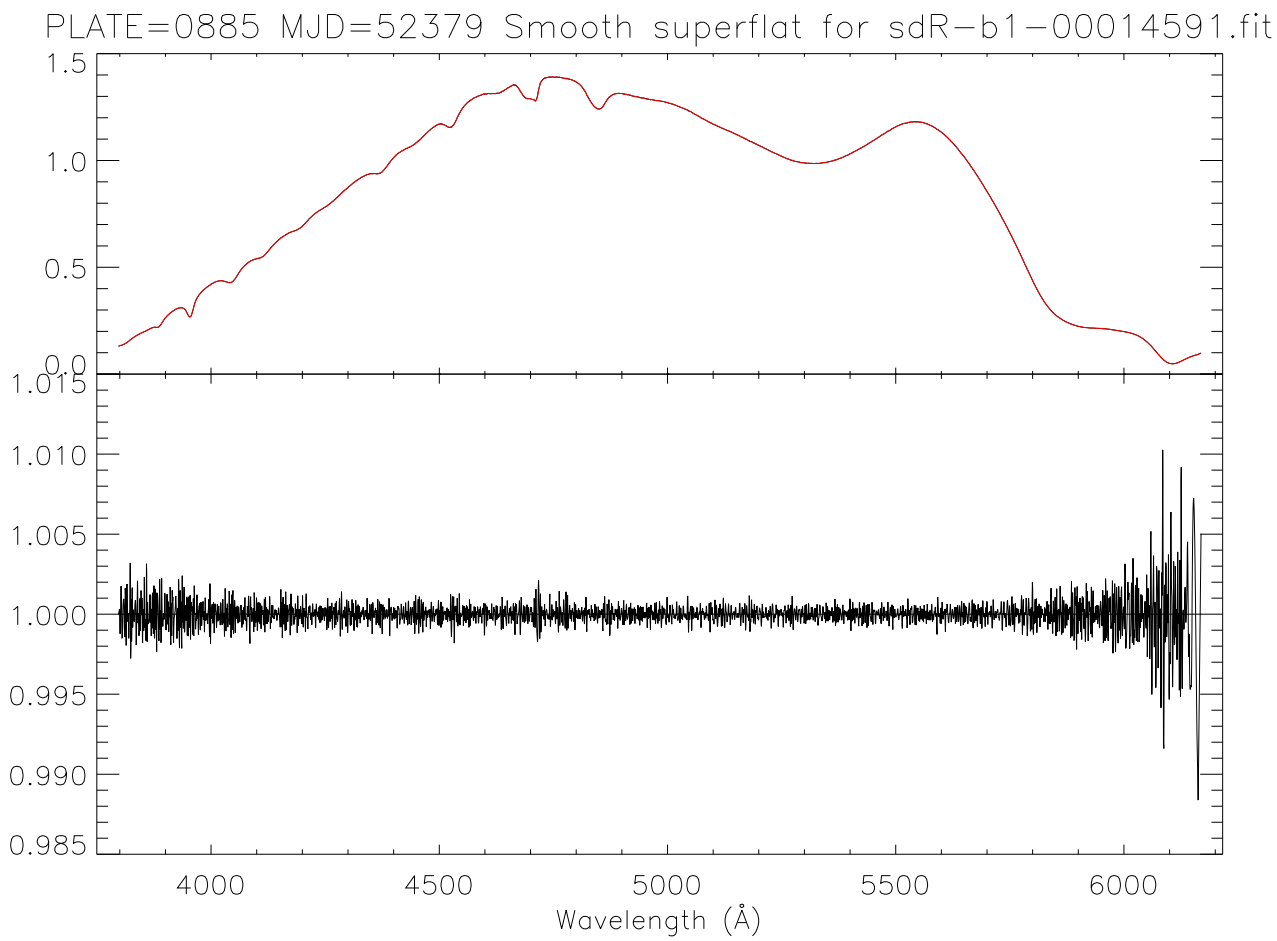

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

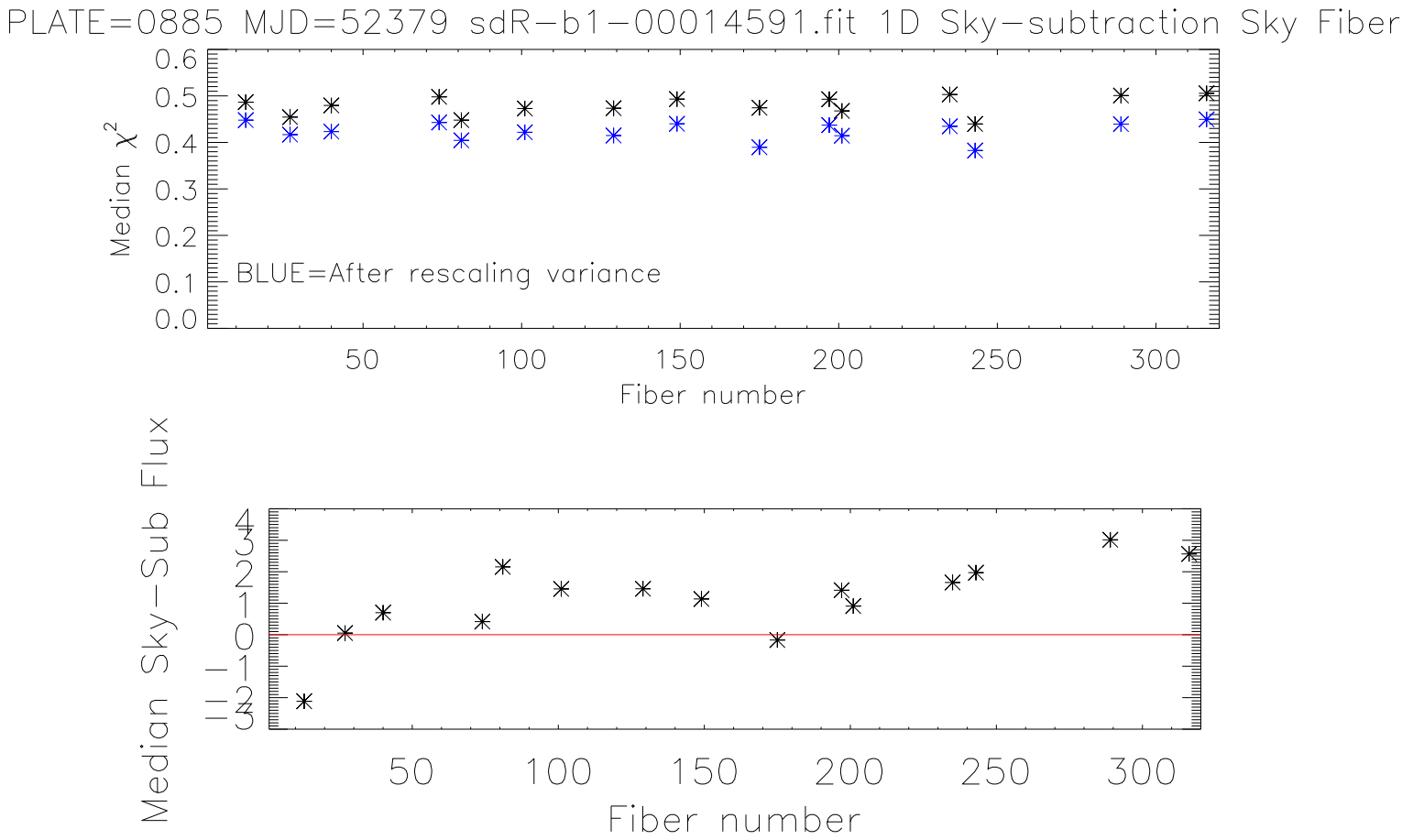

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

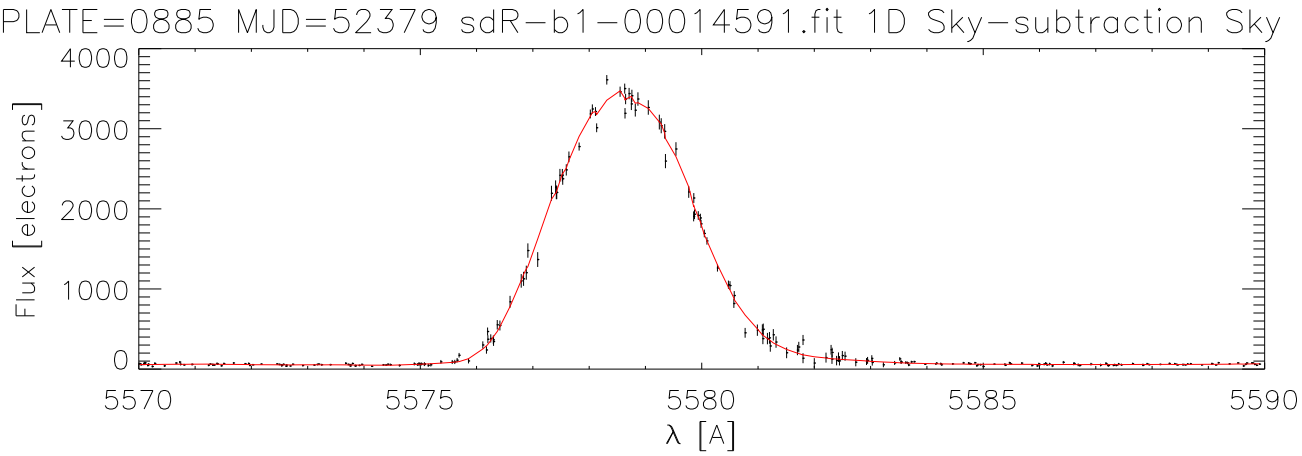

4046.5600
nfib1 16
nfib2 16
stdev 0.101
extra −0.02
4358.3300
nfib1 16
nfib2 16
stdev 0.060
extra −0.06
5460.9400
nfib1 16
nfib2 16
stdev 0.051
extra 0.09
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra 0.13
5889.9500
nfib1 16
nfib2 16
stdev 0.048
extra 0.19
5895.9240
nfib1 15
nfib2 16
stdev 0.048
extra 0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

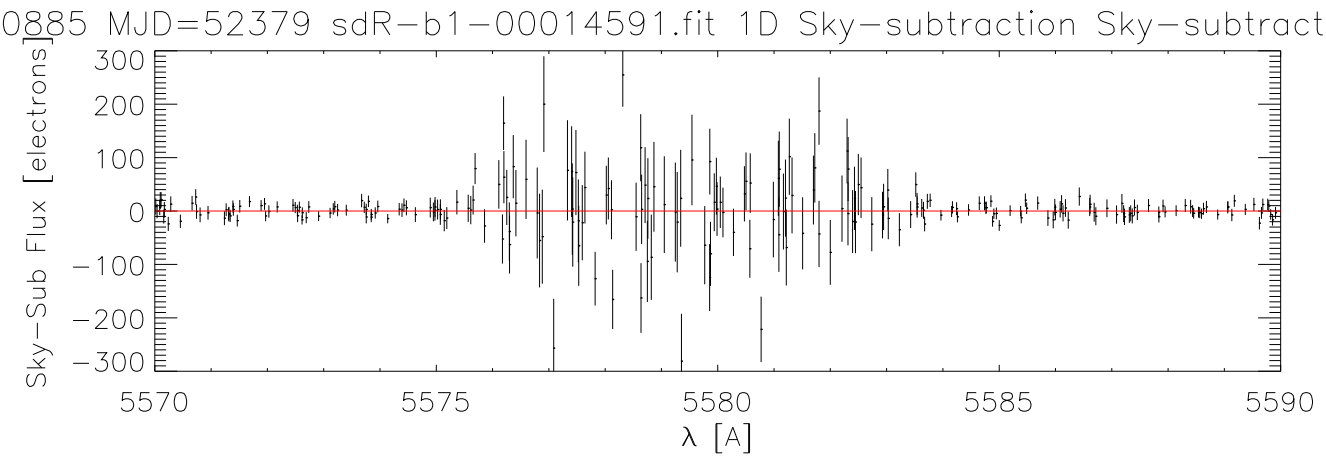

0.2
0.1
0.0
−0.1
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

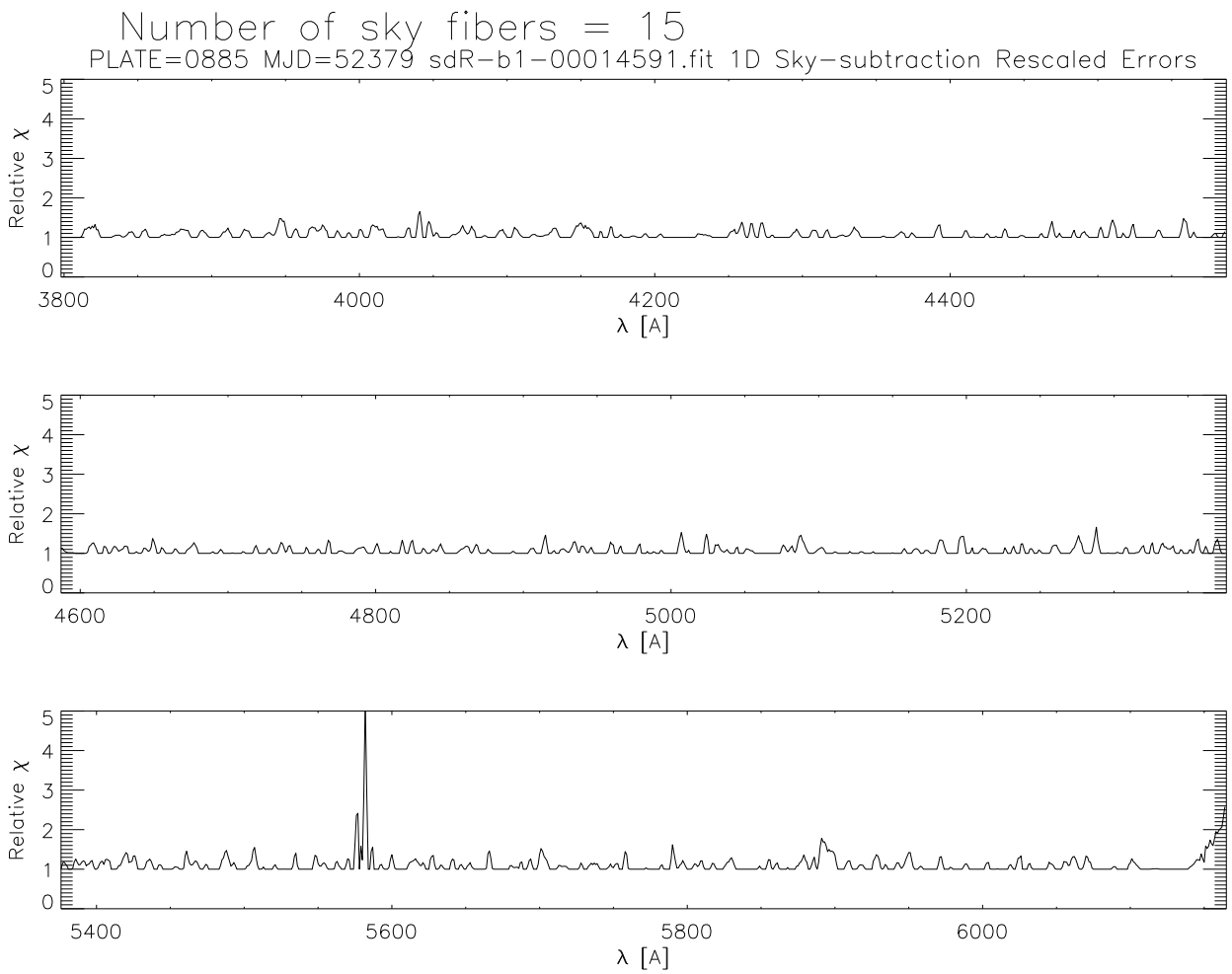
es= −0.0001

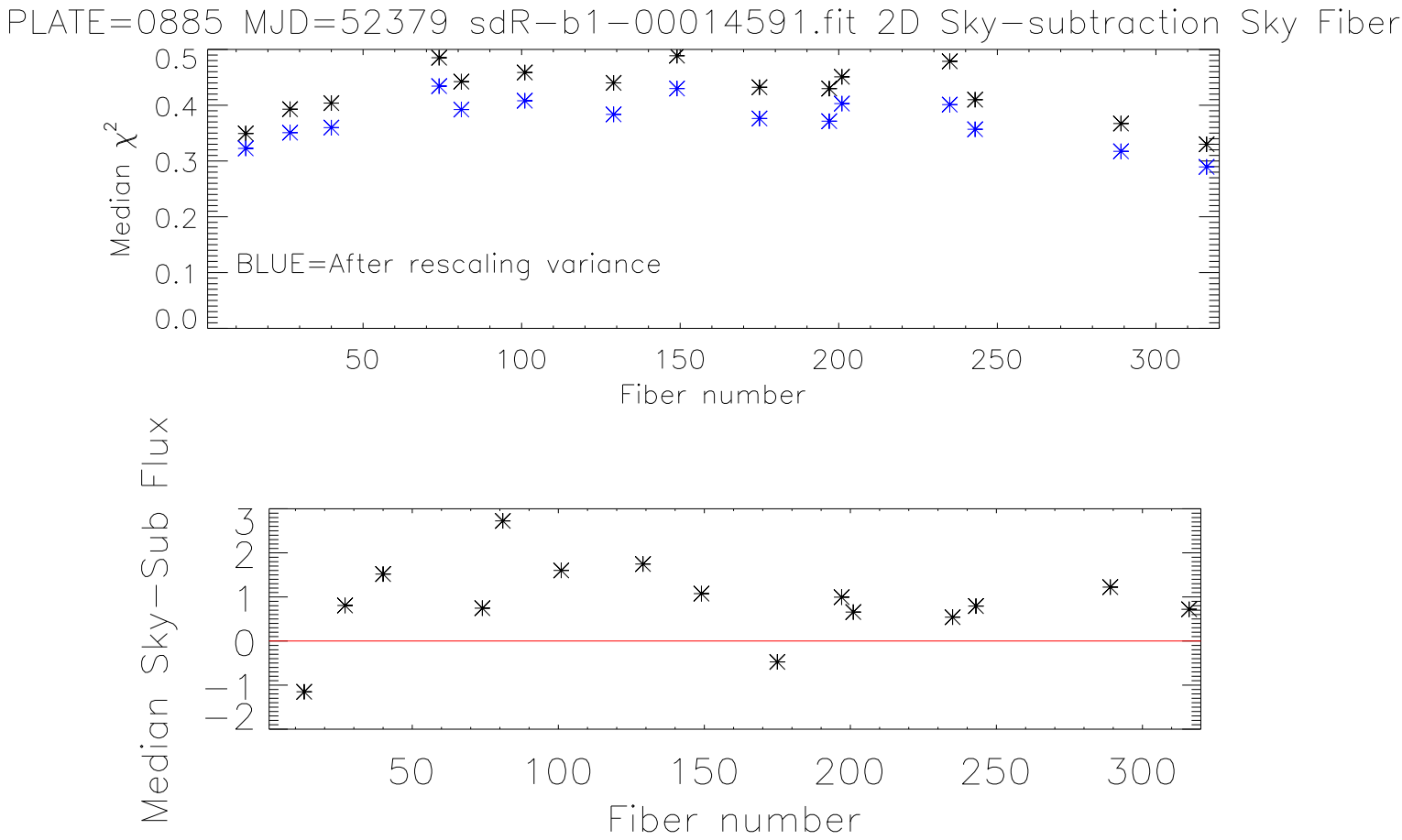

PLATE=0885 MJD=52379 Smooth superflat for sdR−b1−00014591.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

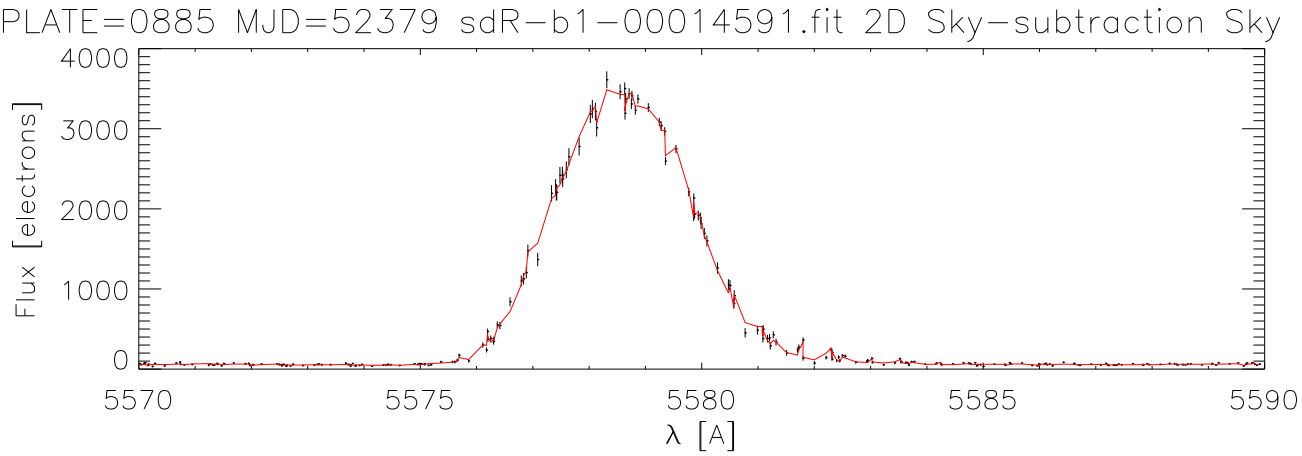

PLATE=0885 MJD=52379 sdR-b1-00014591.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-3
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

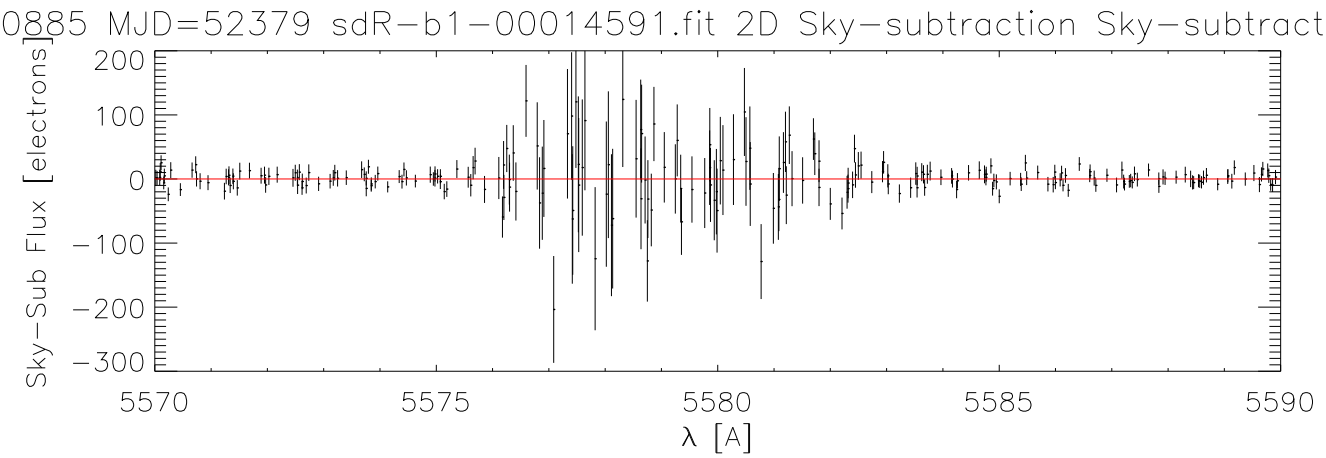

PLATE=0885 MJD=52379 sdR-b1-00014591.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

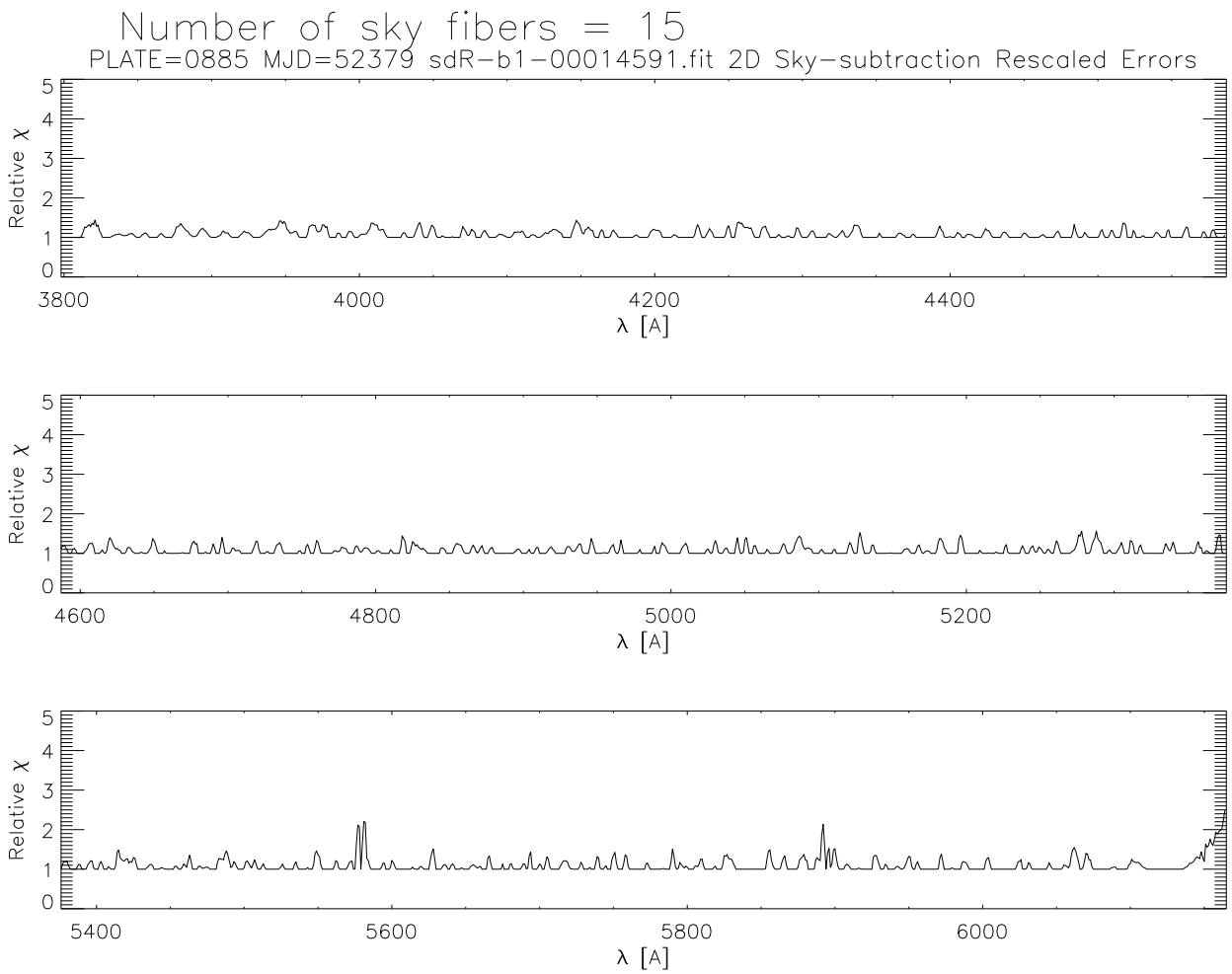

PLATE=0885 MJD=52379 sdR-b1-00014591.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

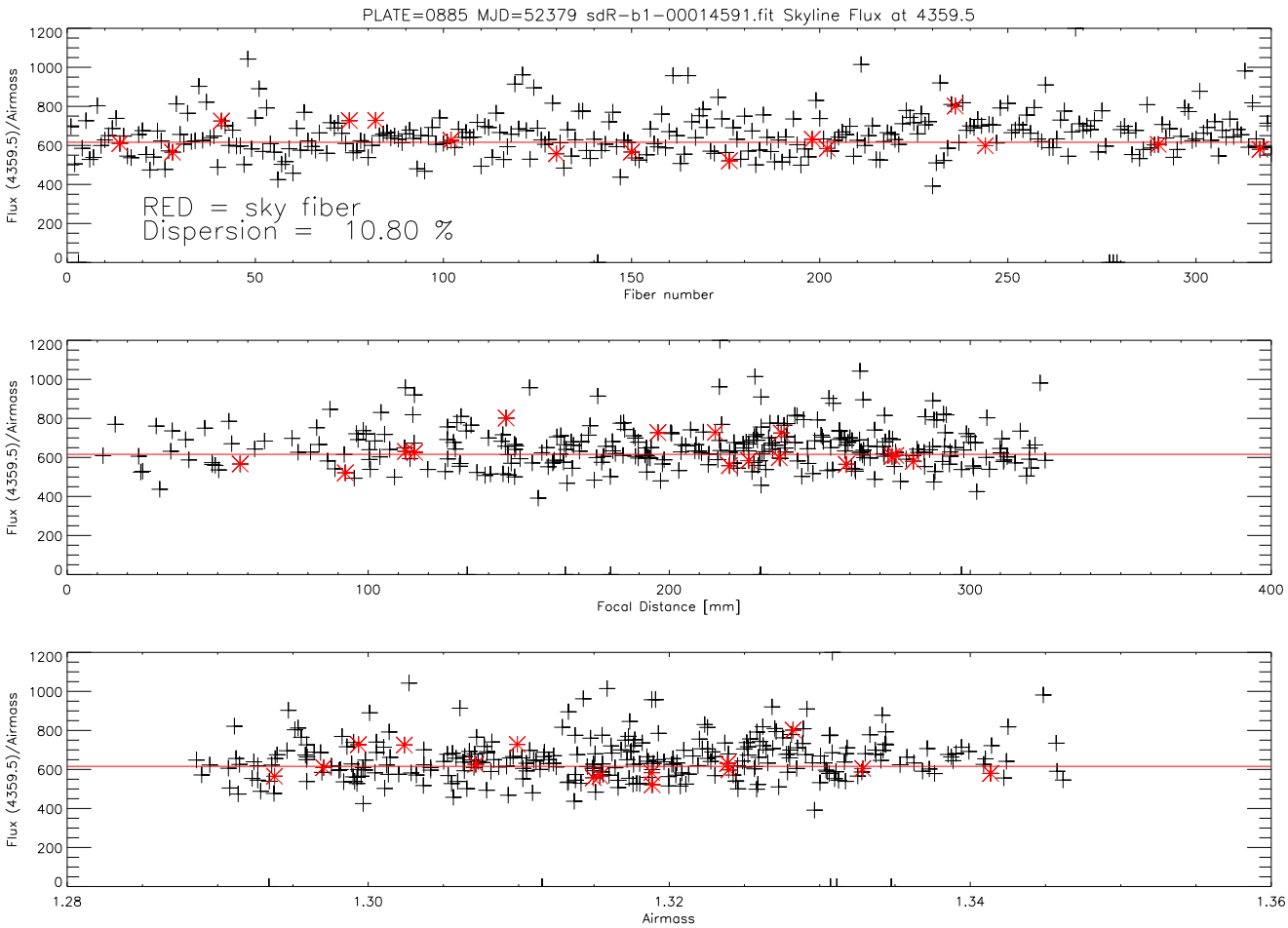

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-b1-00014591.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

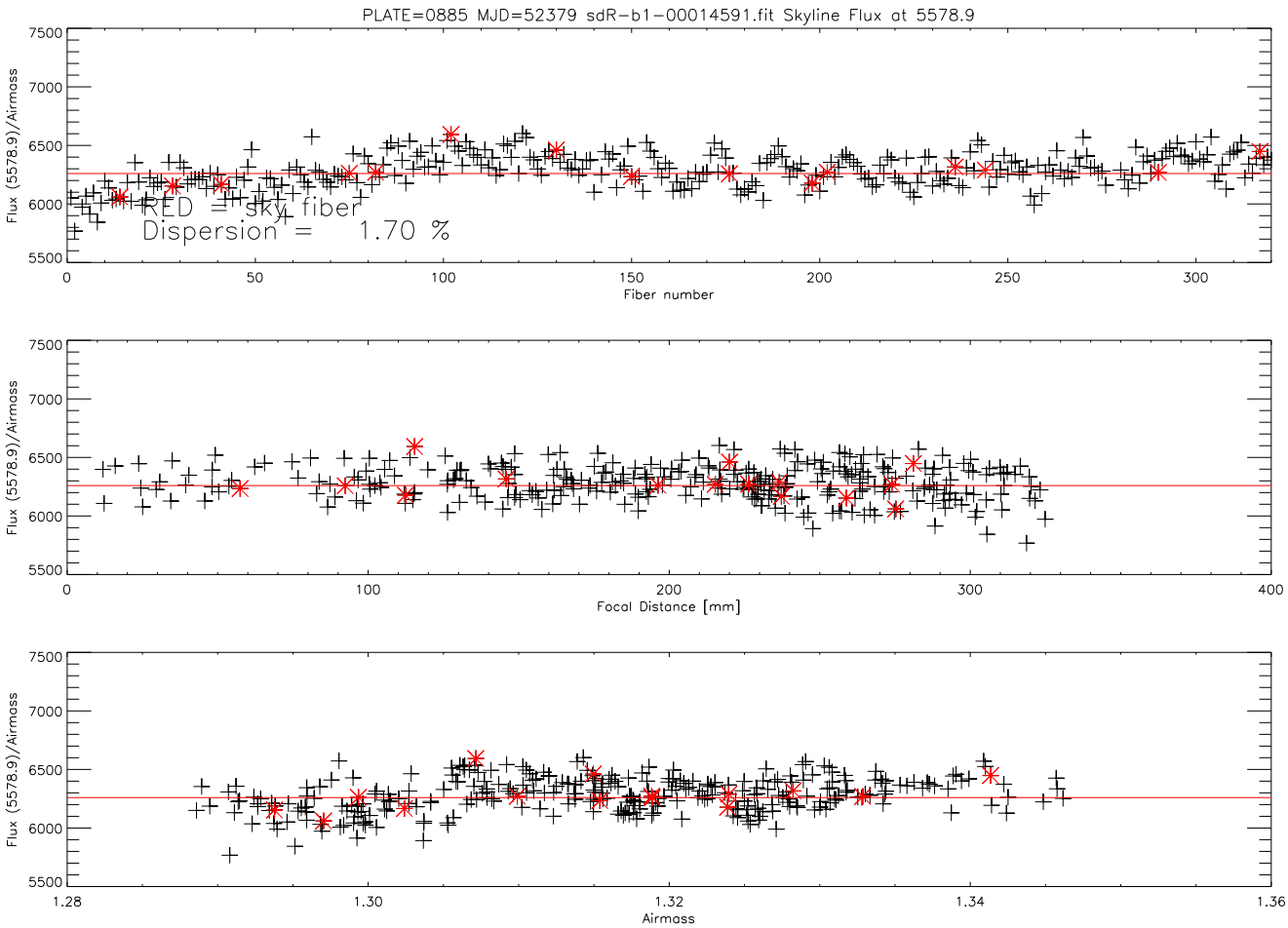

PLATE=0885 MJD=52379 sdR-b1-00014591.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

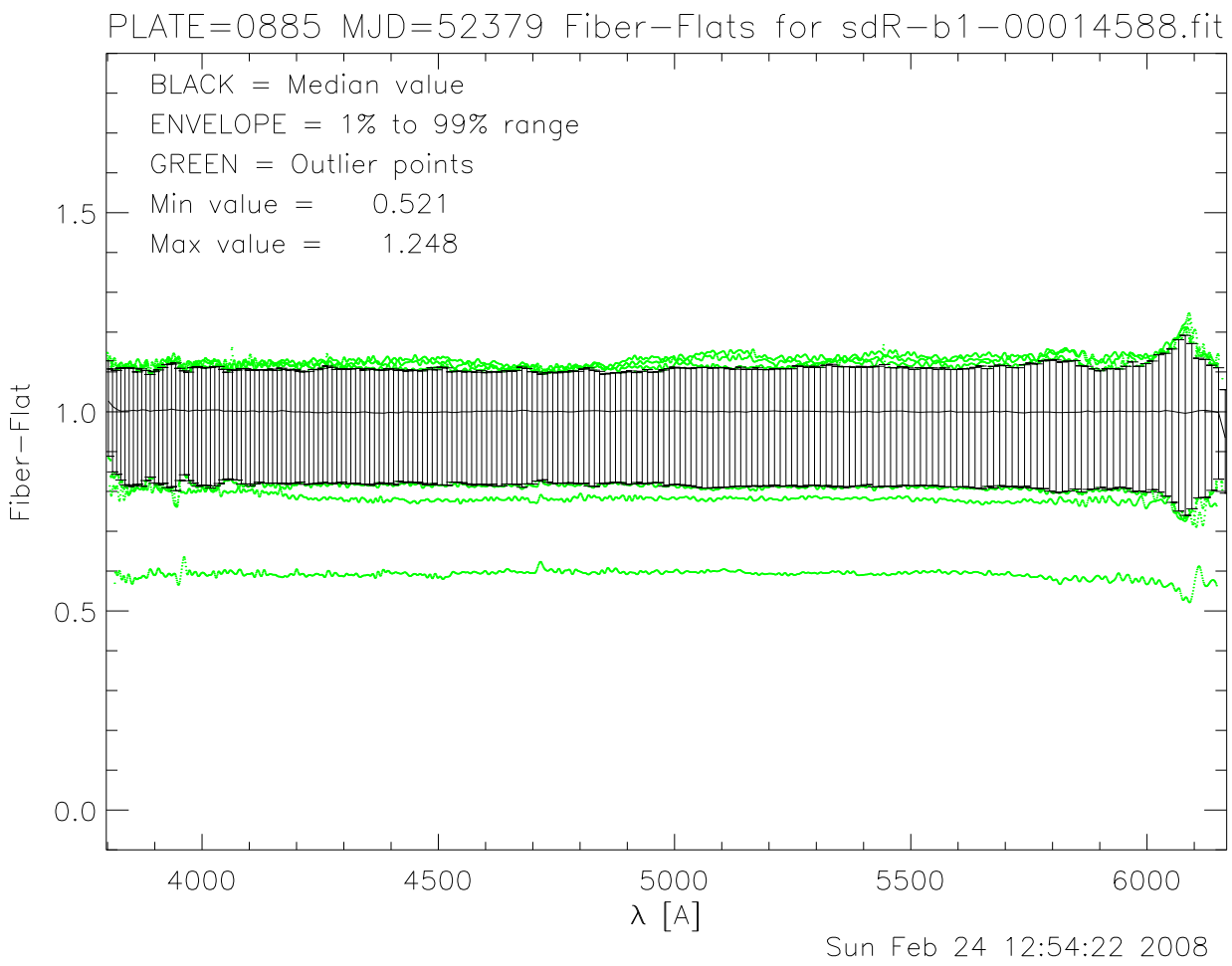

PLATE=0885 MJD=52379 sdR-b1-00014591.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

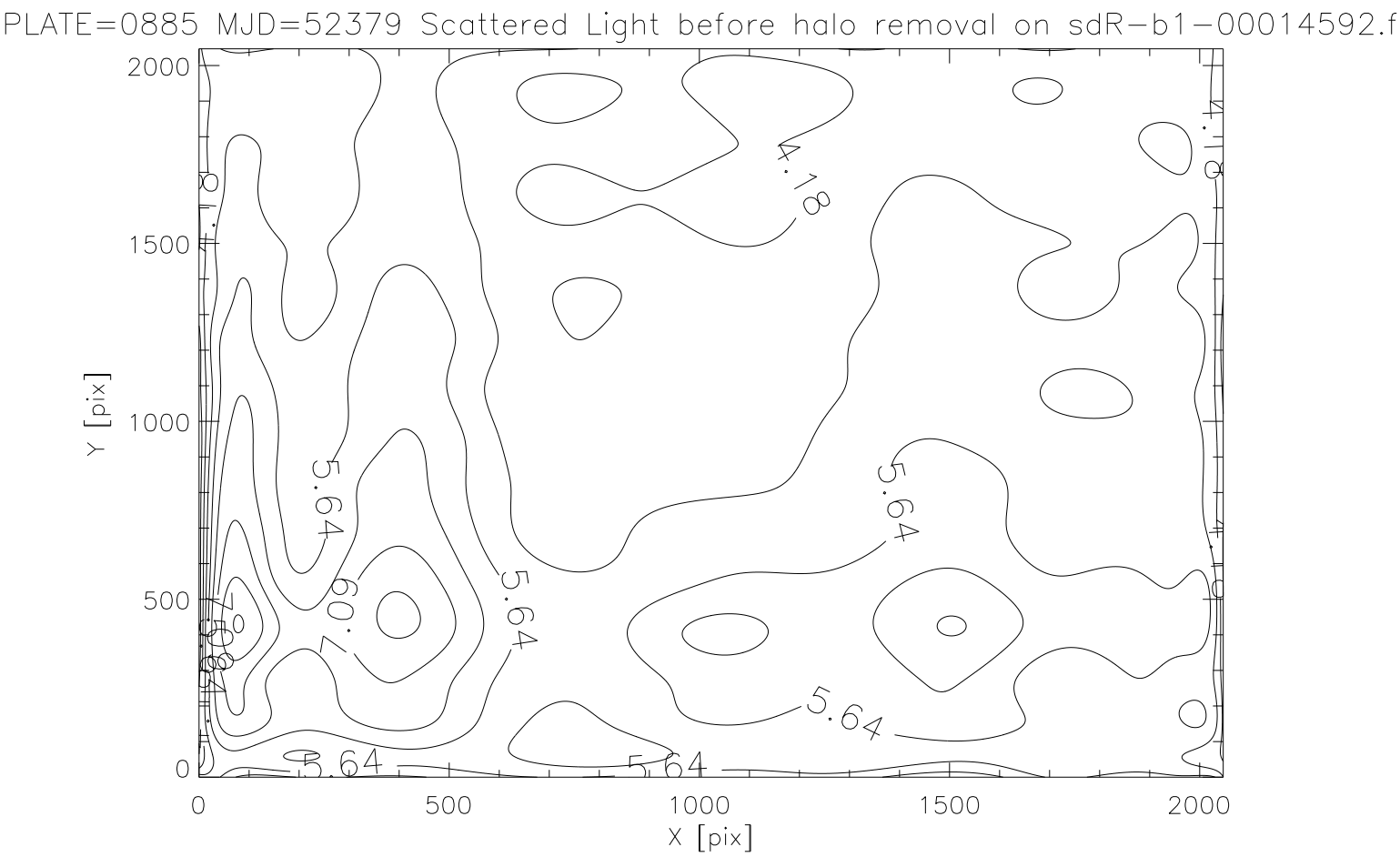

PLATE=0885 MJD=52379 sdR-b1-00014591.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

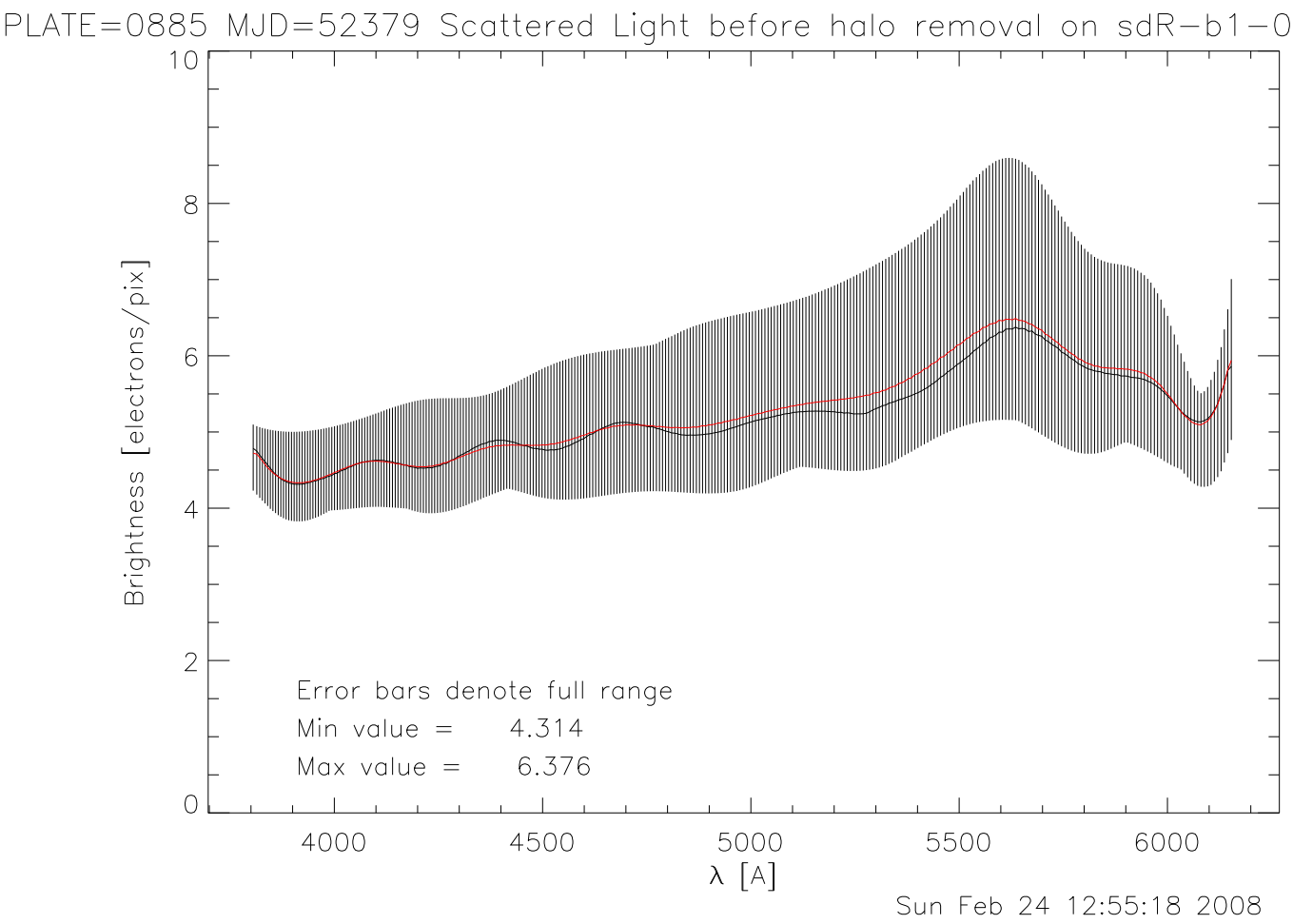

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-b1-00014591.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

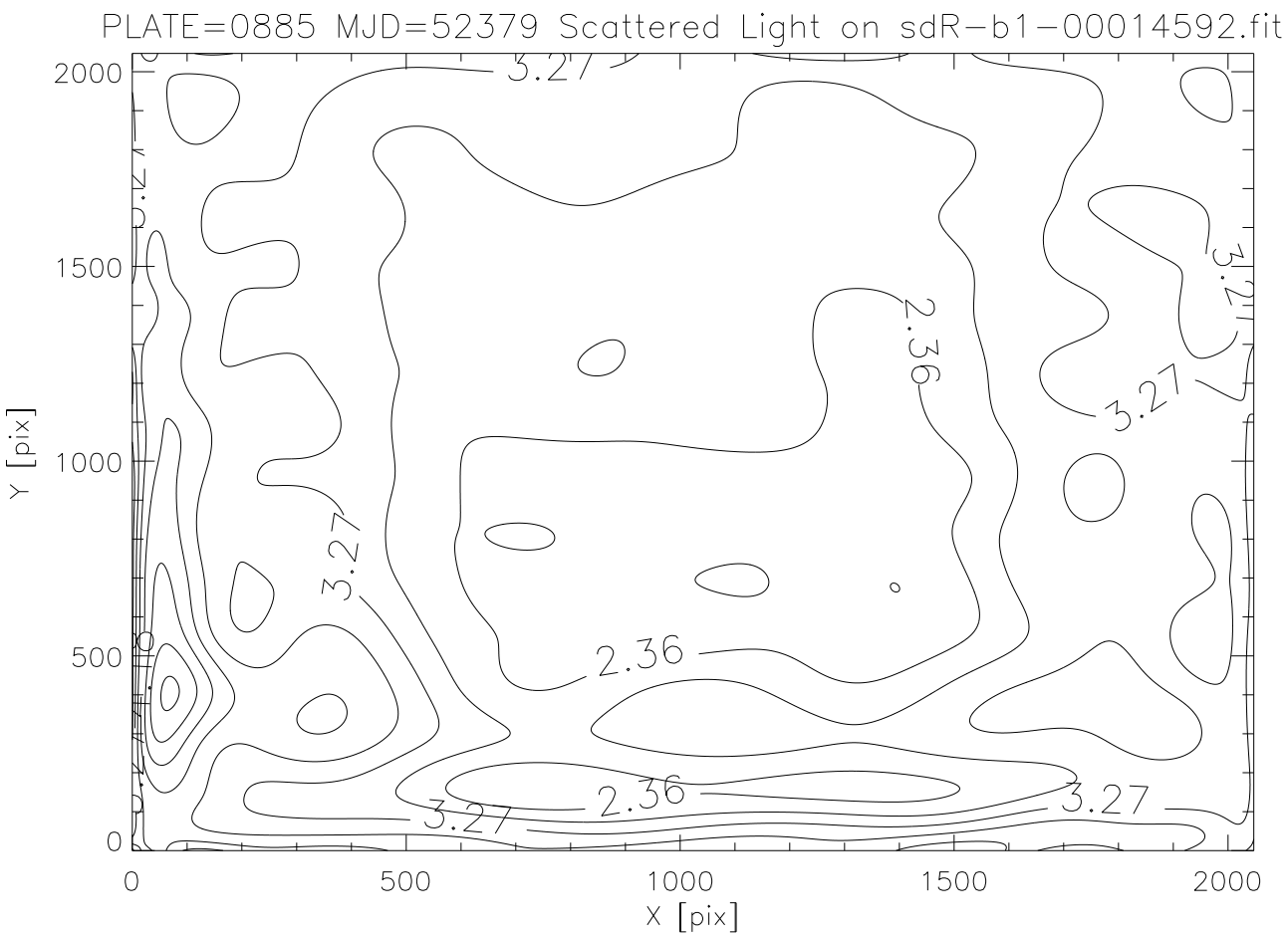

PLATE=0885 MJD=52379 sdR-b1-00014591.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.80 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

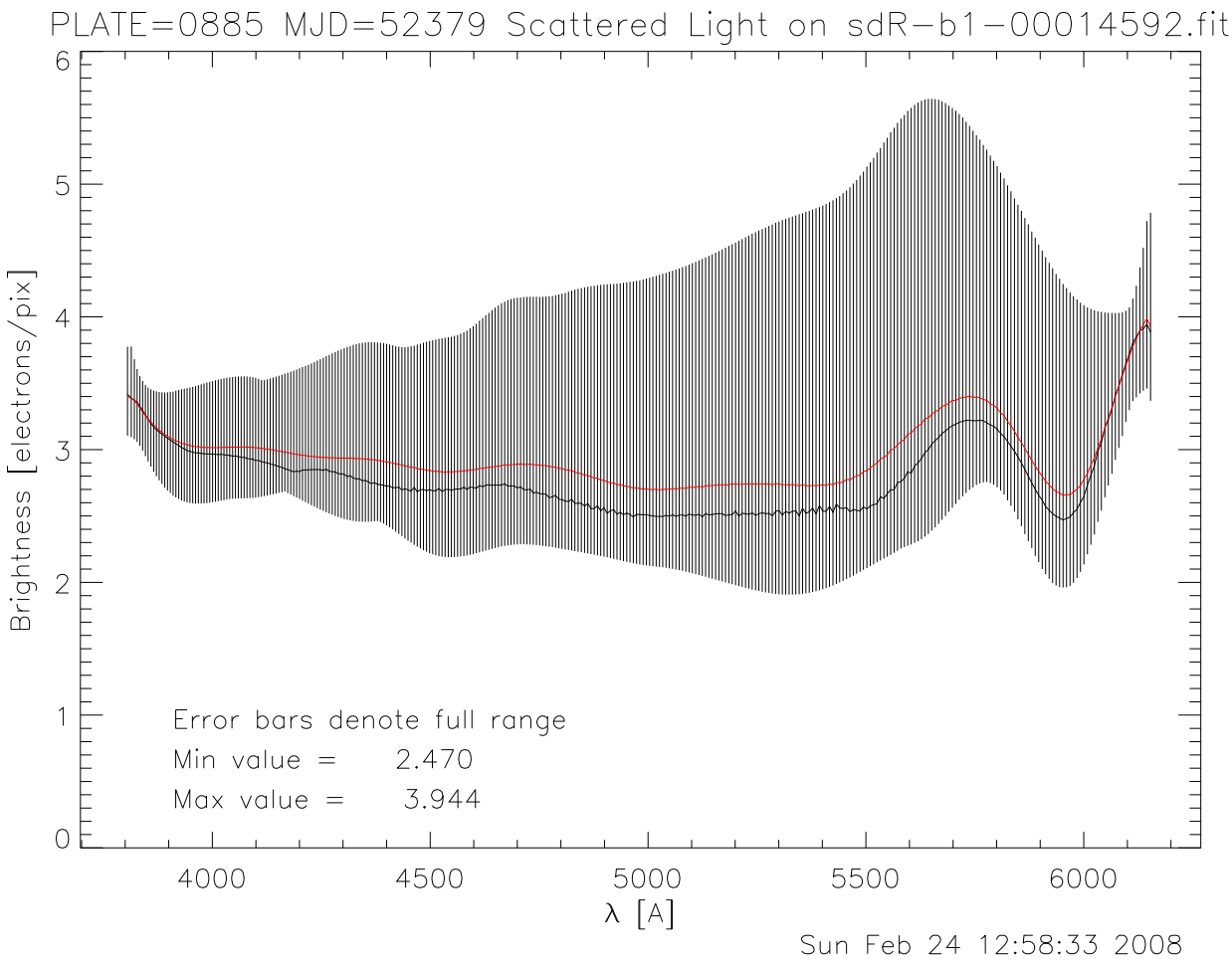

PLATE=0885 MJD=52379 sdR-b1-00014591.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.70 %
Fiber number
Focal Distance [mm]
Airmass

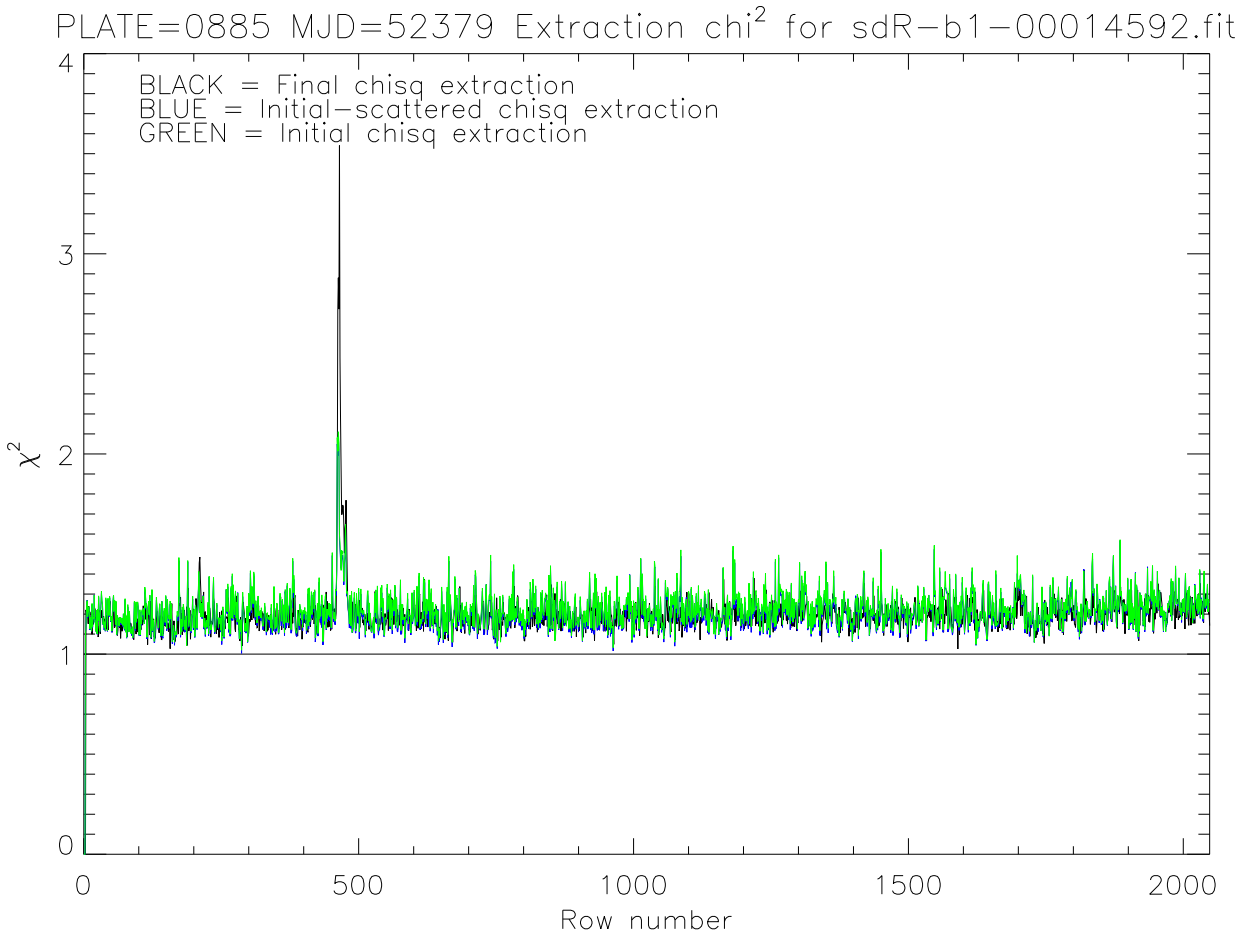

PLATE=0885 MJD=52379 Fiber-Flats for sdR-b1-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.521
Max value = 1.248
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 12:54:22 2008

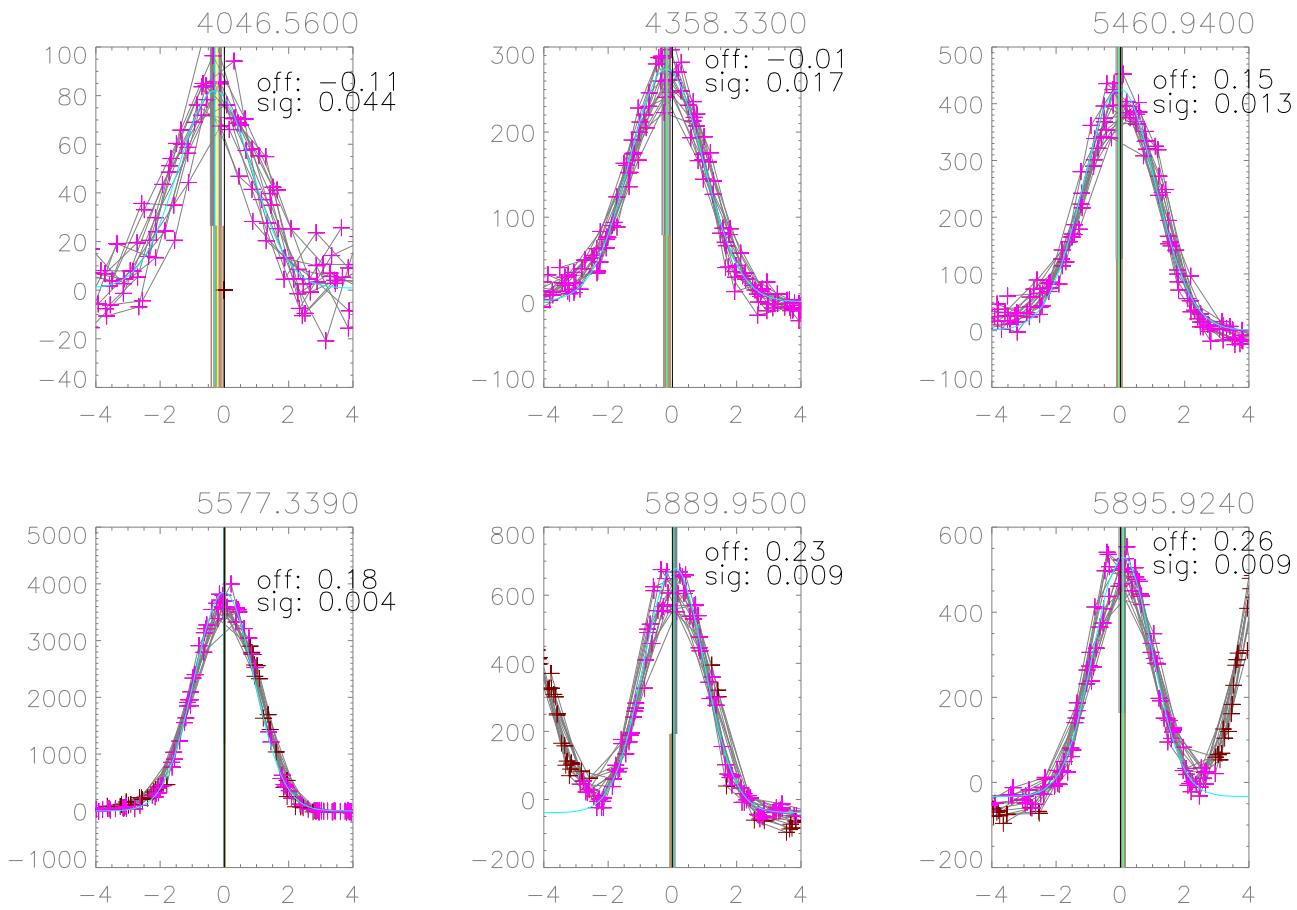

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR−b1−00014592.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
4.18
5.64
5.64
5.64
5.64
5.64
5.64
4.18
4.18
4.18

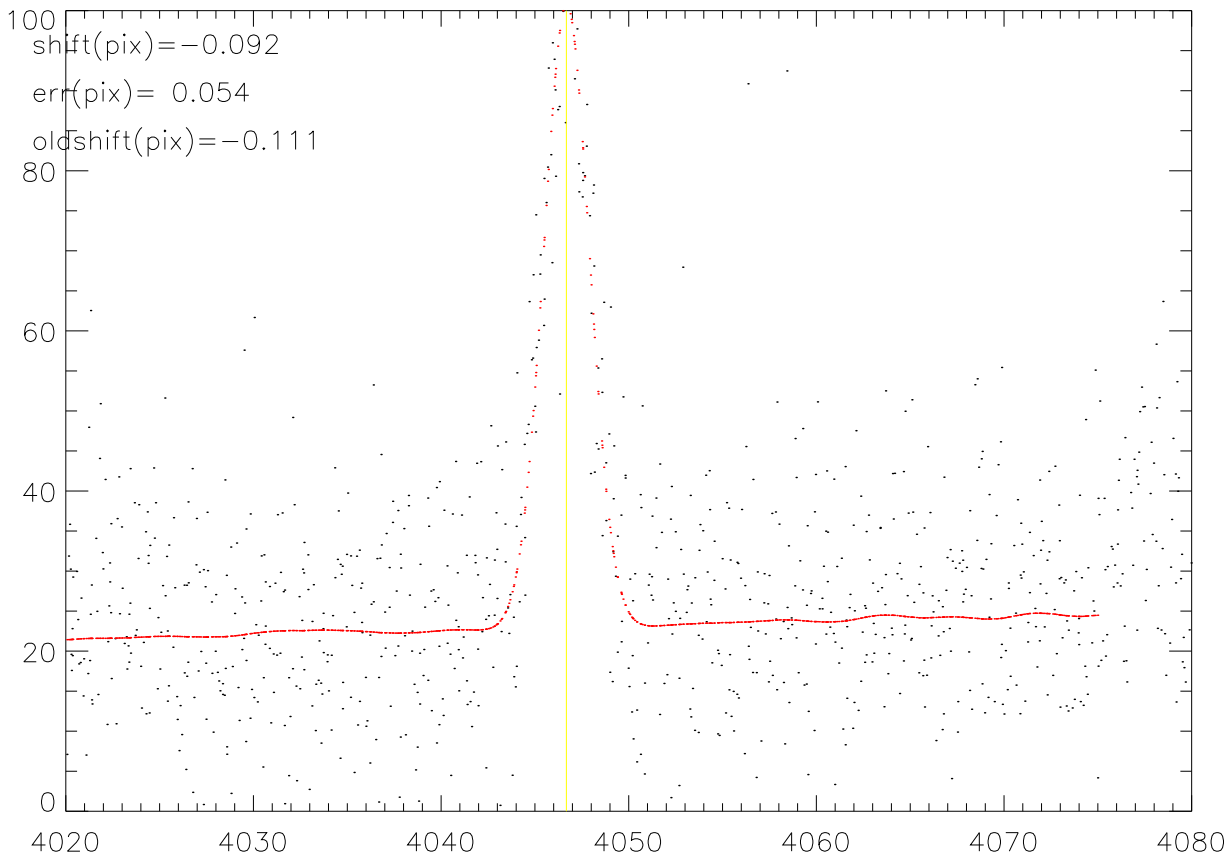

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b1-00014592.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.314
Max value = 6.376
Sun Feb 24 12:55:18 2008

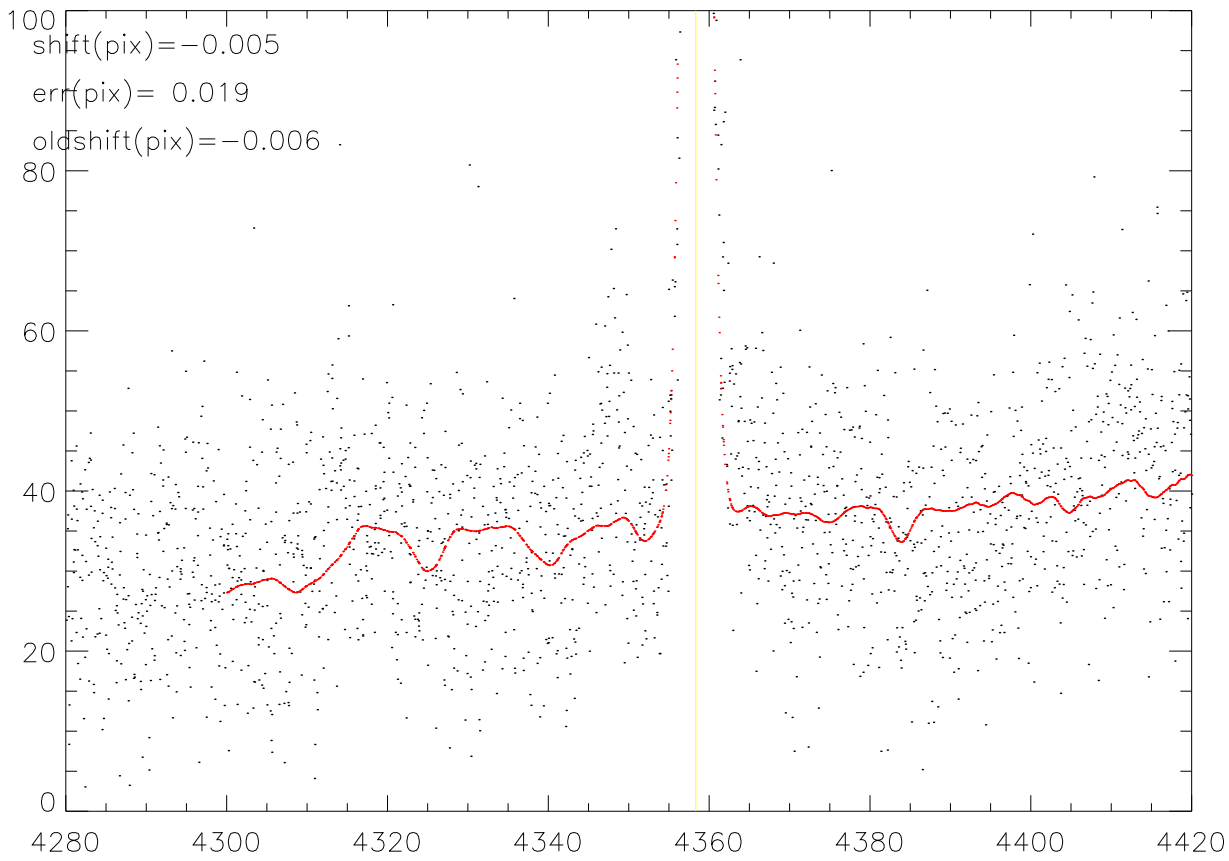

PLATE=0885 MJD=52379 Scattered Light on sdR-b1-00014592.fit
3.27
2.36
3.27
2.36
3.27
2.36
3.27
3.27
Y [pix]
X [pix]
0
500
1000
1500
2000

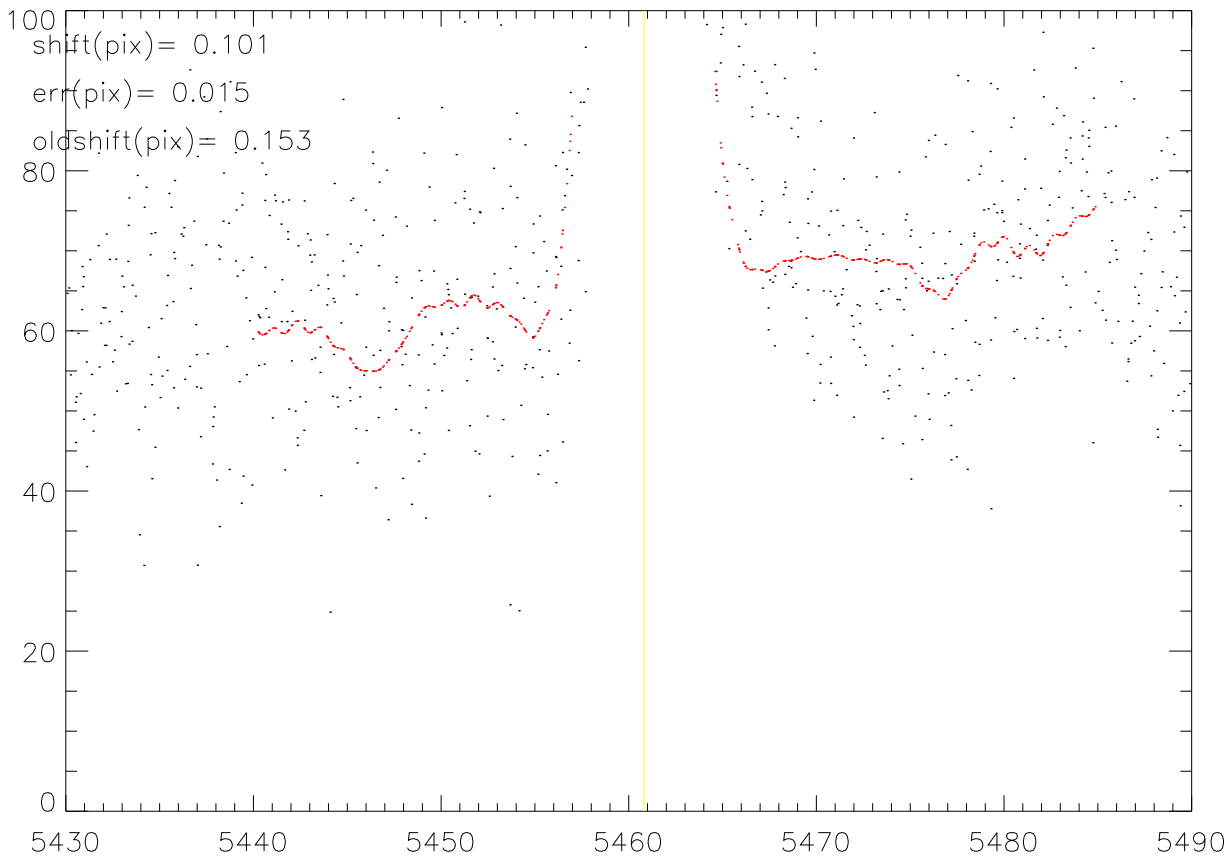

PLATE=0885 MJD=52379 Scattered Light on sdR-b1-00014592.fit
Brightness [electrons/pix]
0
1
2
3
4
5
6
Error bars denote full range
Min value = 2.470
Max value = 3.944
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 12:58:33 2008

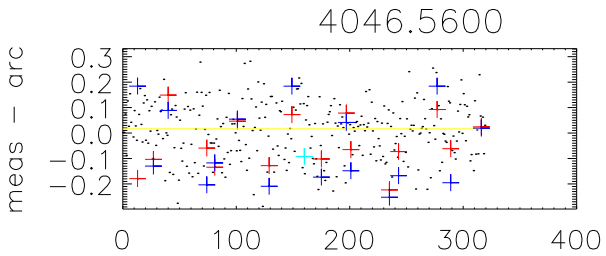

PLATE=0885 MJD=52379 Extraction chi^2 for sdR−b1−00014592.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

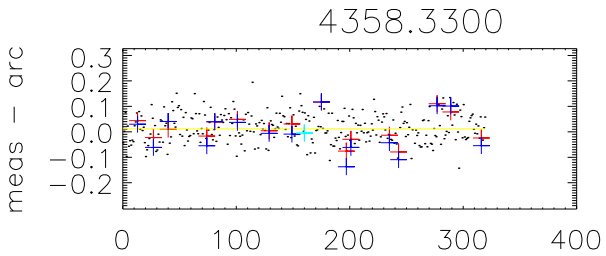

4046.5600
off: −0.11
sig: 0.044
4358.3300
off: −0.01
sig: 0.017
5460.9400
off: 0.15
sig: 0.013
5577.3390
off: 0.18
sig: 0.004
5889.9500
off: 0.23
sig: 0.009
5895.9240
off: 0.26
sig: 0.009

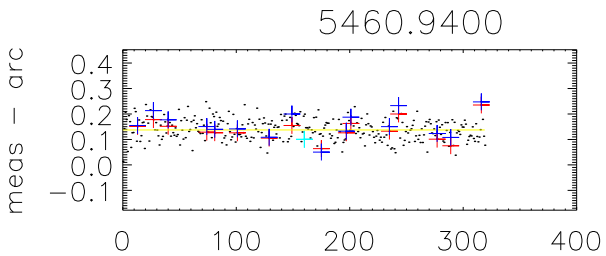

shift(pix)=−0.092
err(pix)= 0.054
oldshift(pix)=−0.111
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

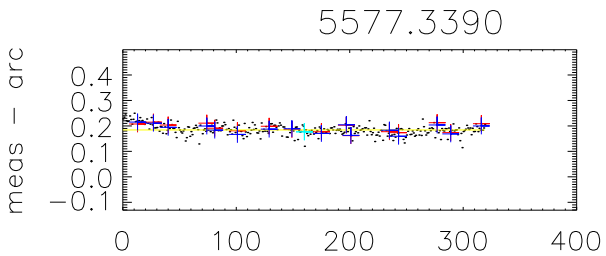

shift(pix)=−0.005
err(pix)= 0.019
oldshift(pix)=−0.006
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

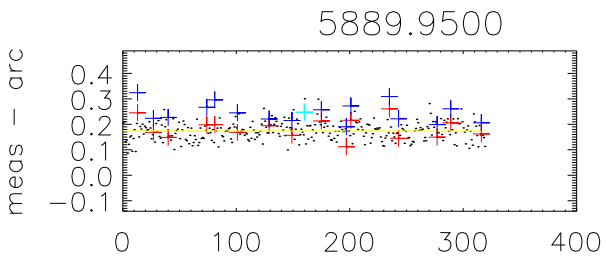

shift(pix)= 0.101
err(pix)= 0.015
oldshift(pix)= 0.153
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

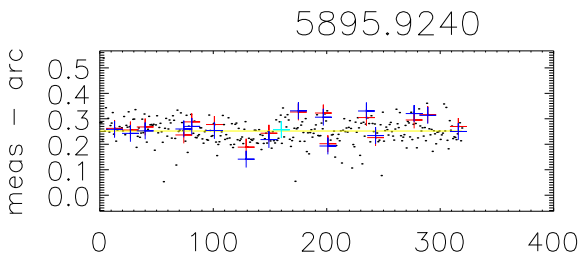

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

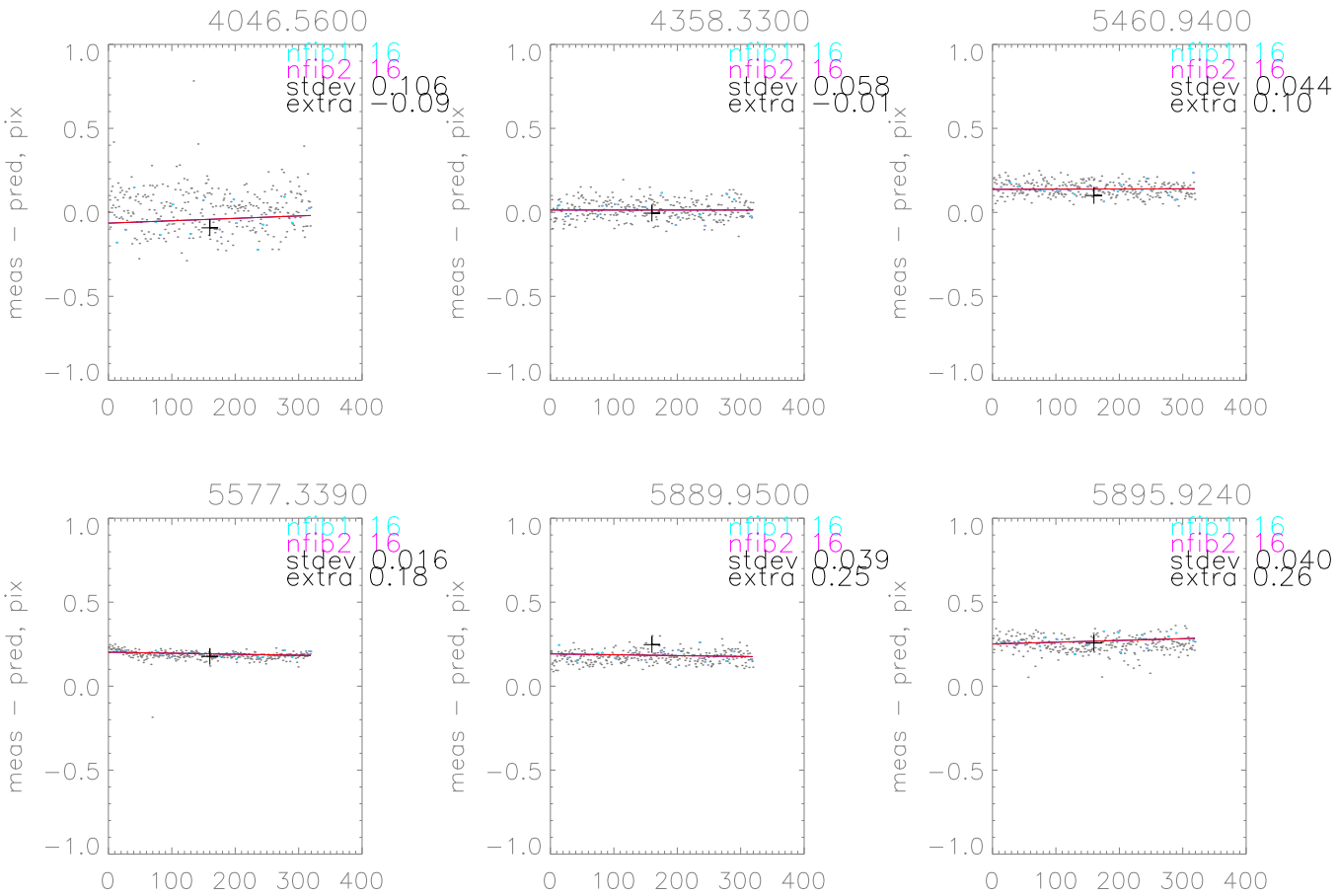

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

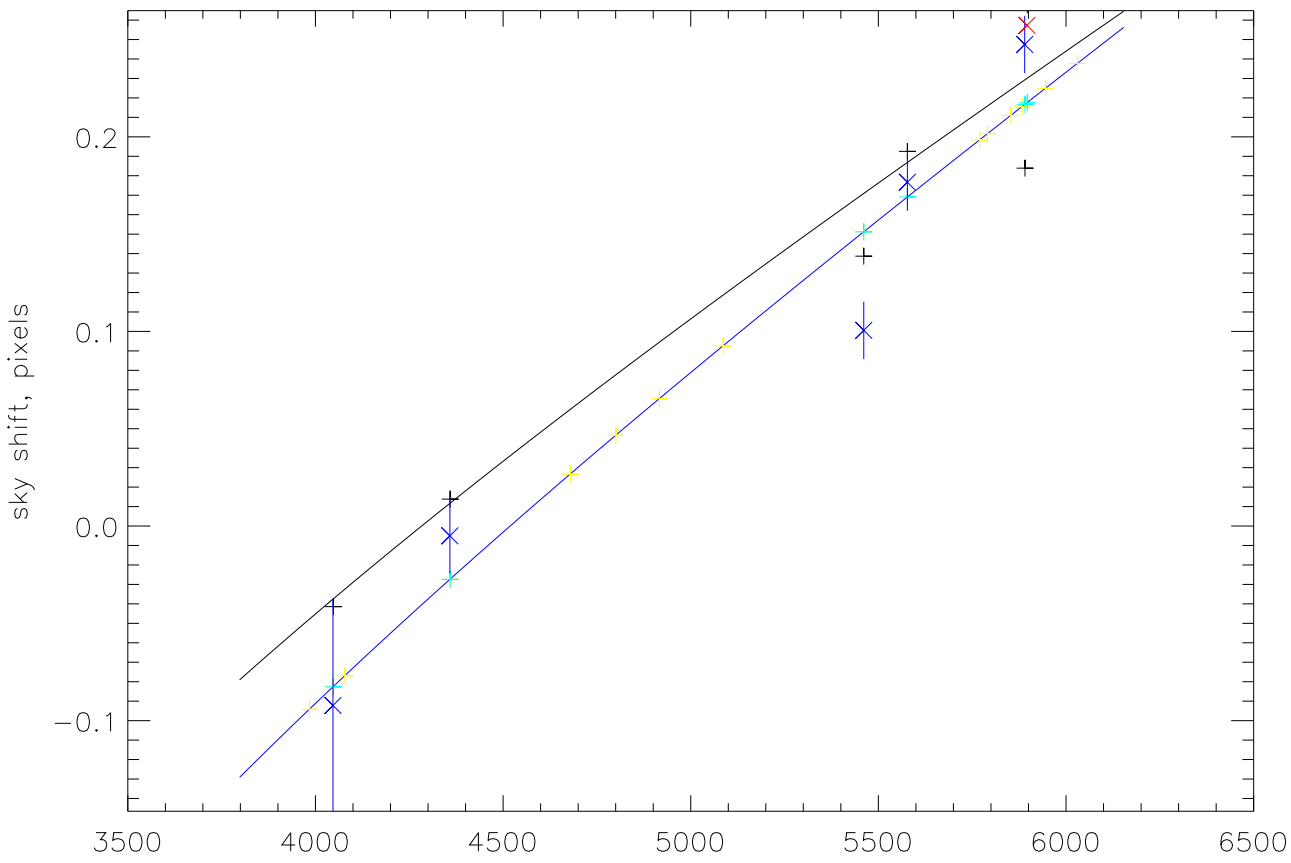

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

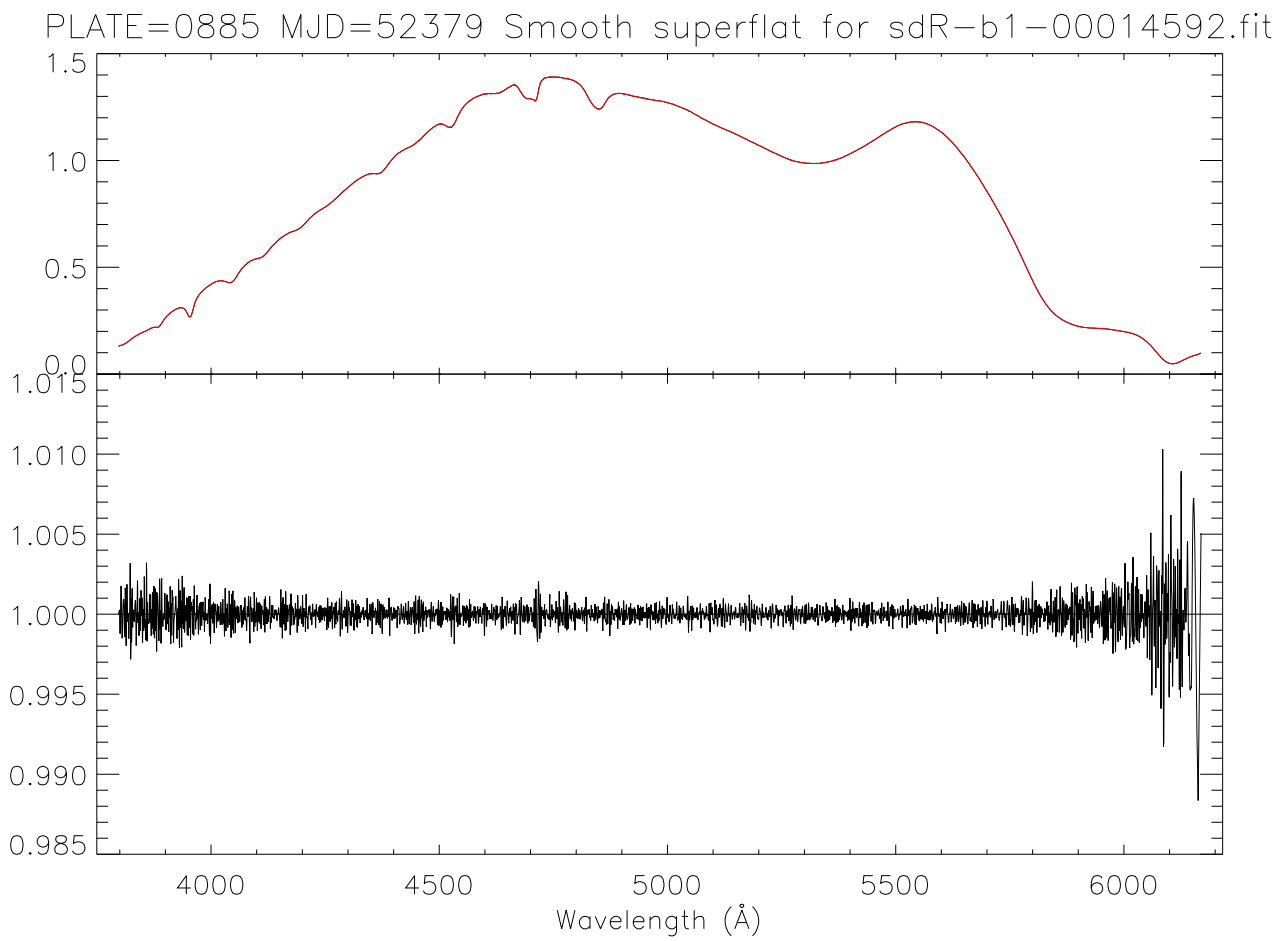

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

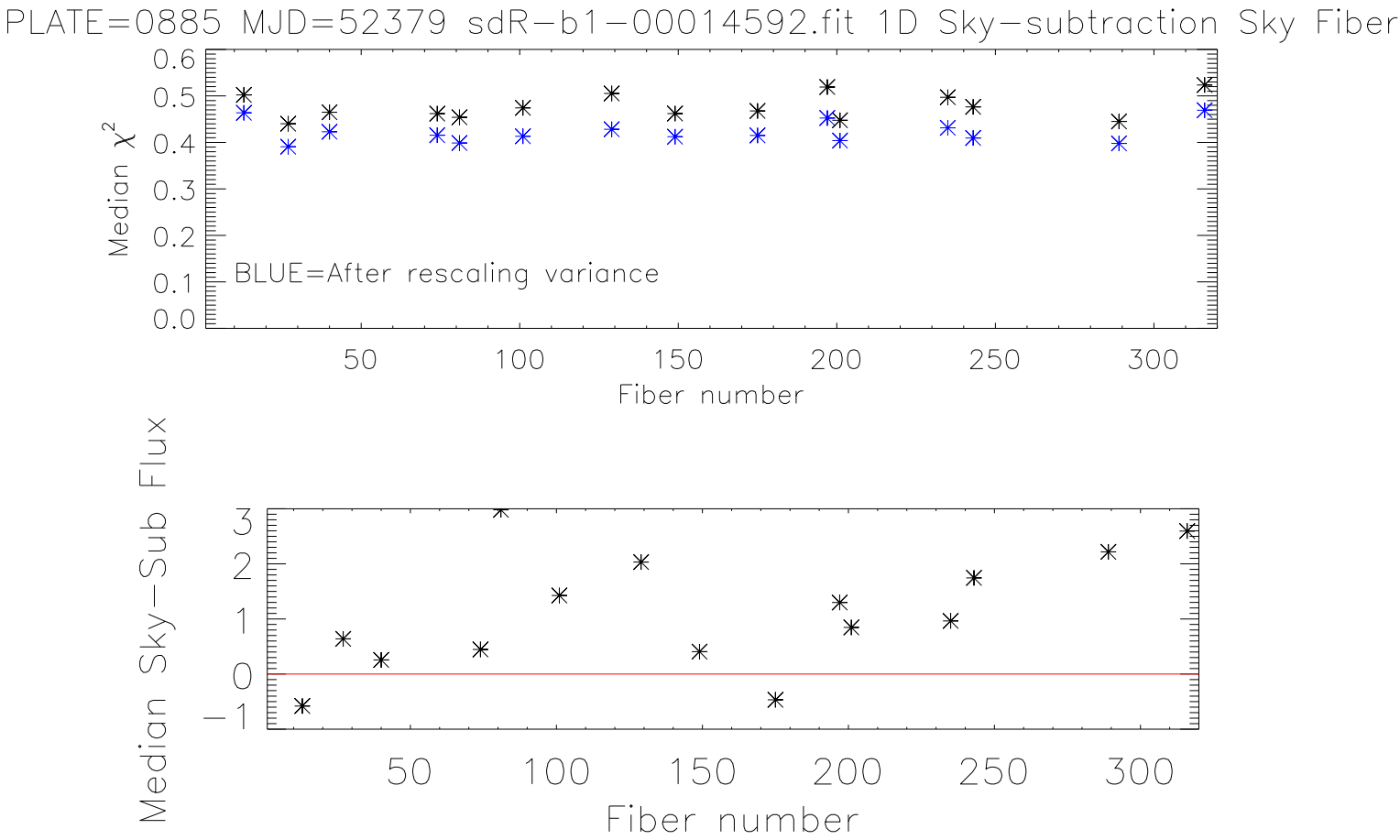

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

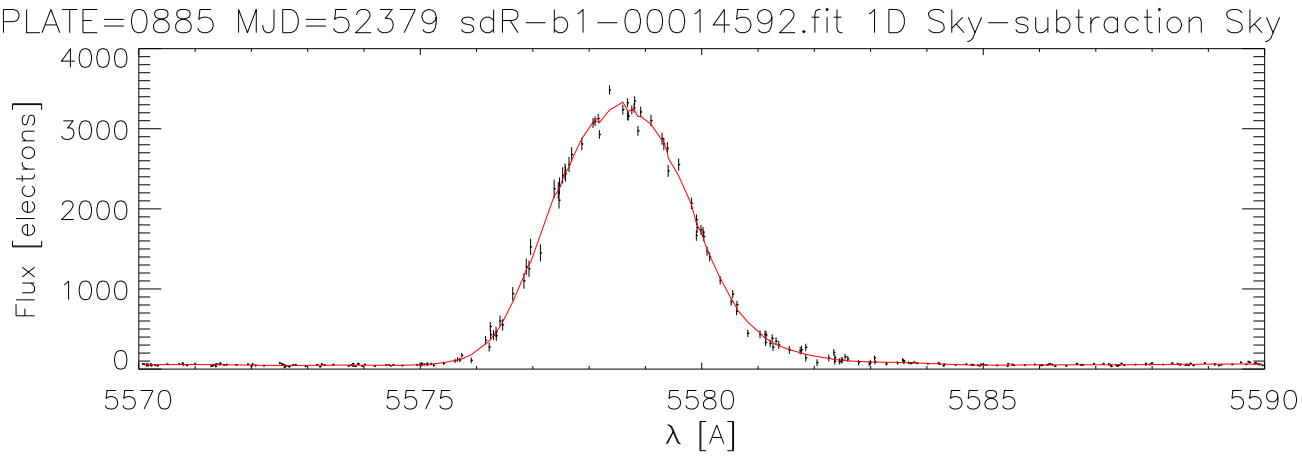

4046.5600
nfib1 16
nfib2 16
stdev 0.106
extra −0.09
4358.3300
nfib1 16
nfib2 16
stdev 0.058
extra −0.01
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra 0.10
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra 0.18
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra 0.25
5895.9240
nfib1 16
nfib2 16
stdev 0.040
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

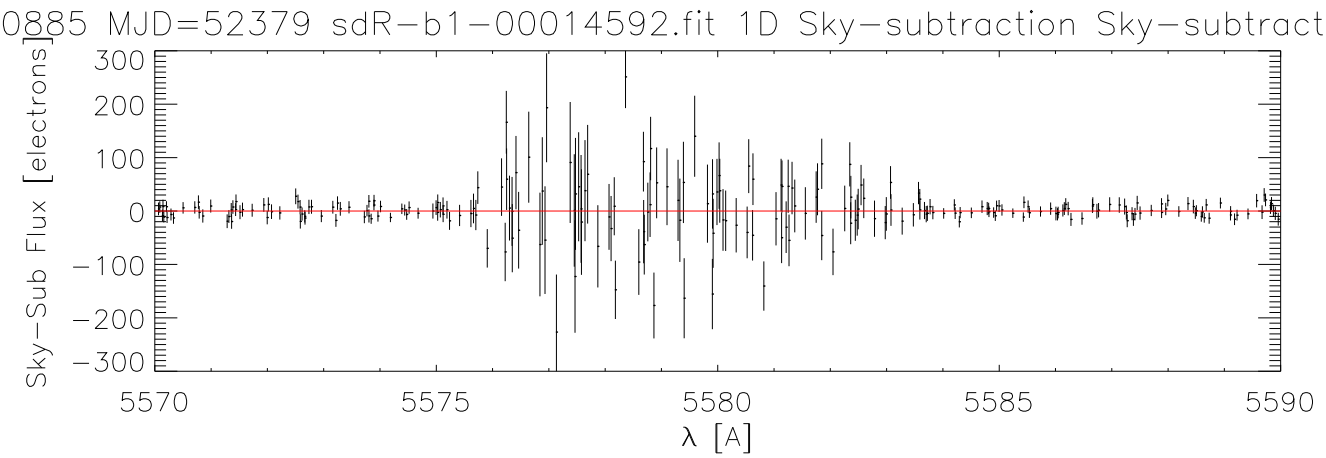

sky shift, pixels
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

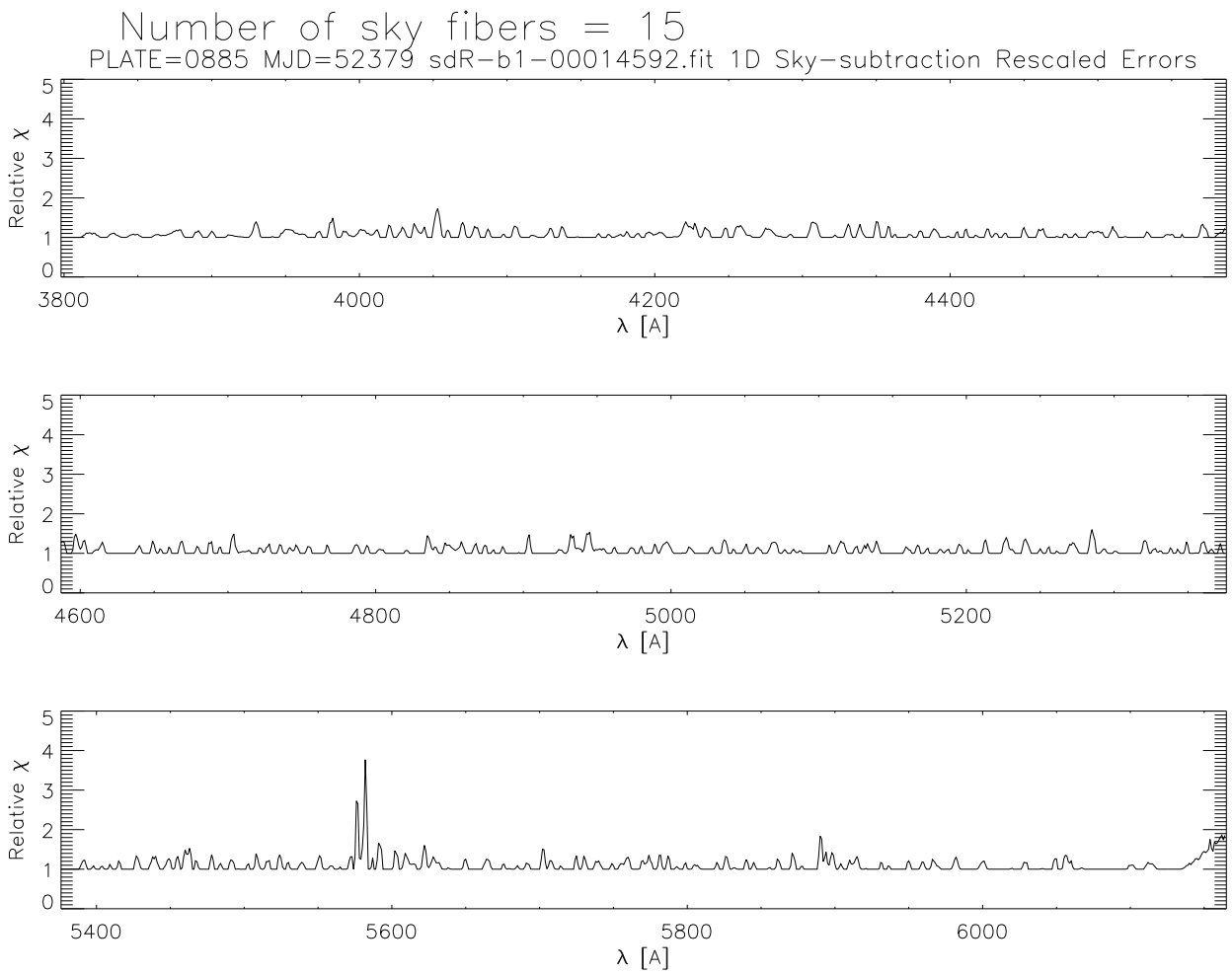
es= −0.0001

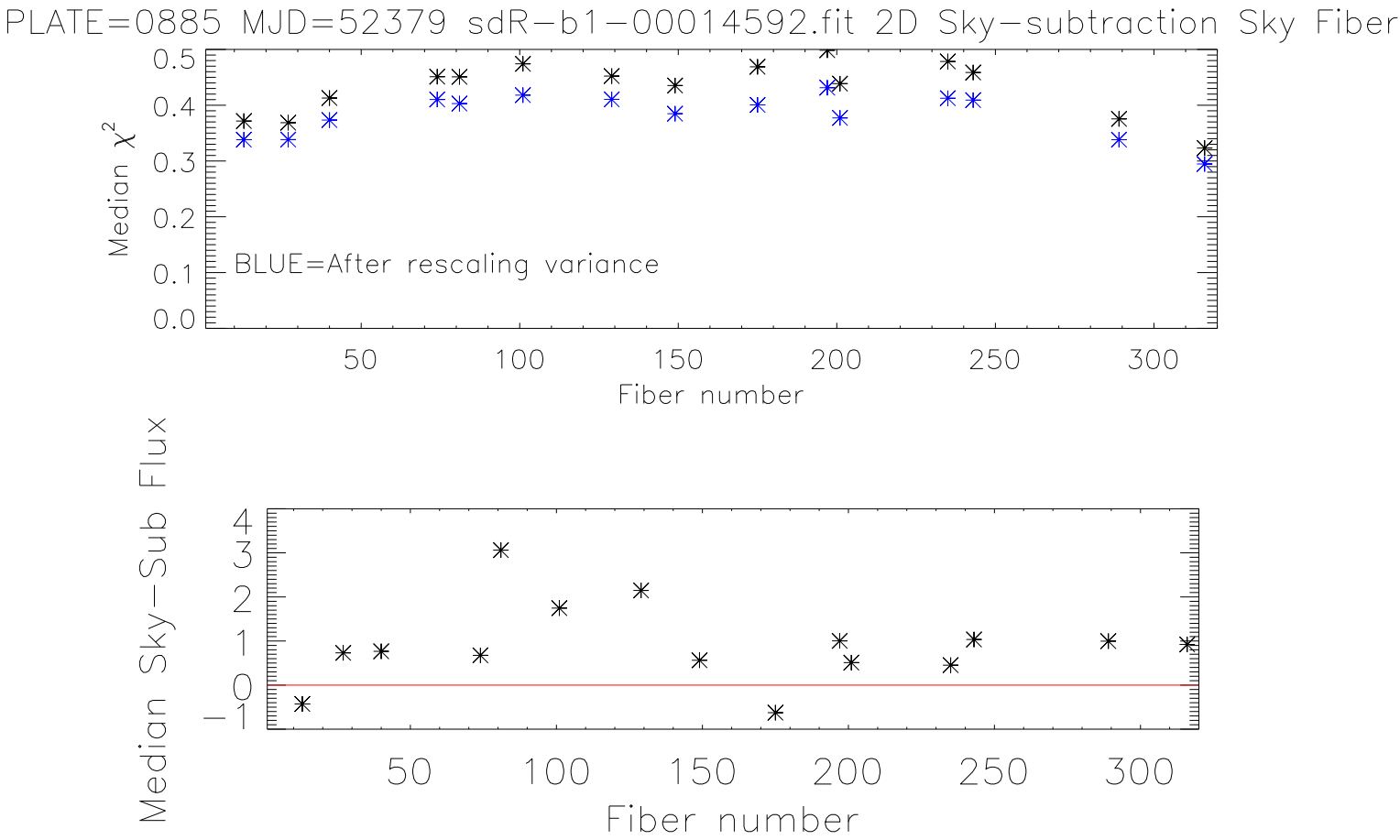

PLATE=0885 MJD=52379 Smooth superflat for sdR−b1−00014592.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

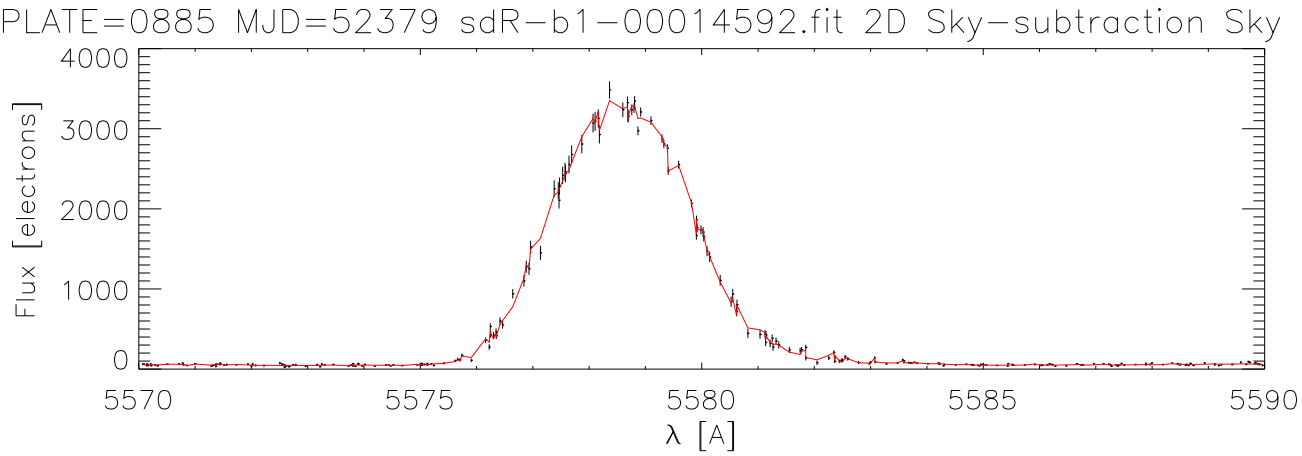

PLATE=0885 MJD=52379 sdR-b1-00014592.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

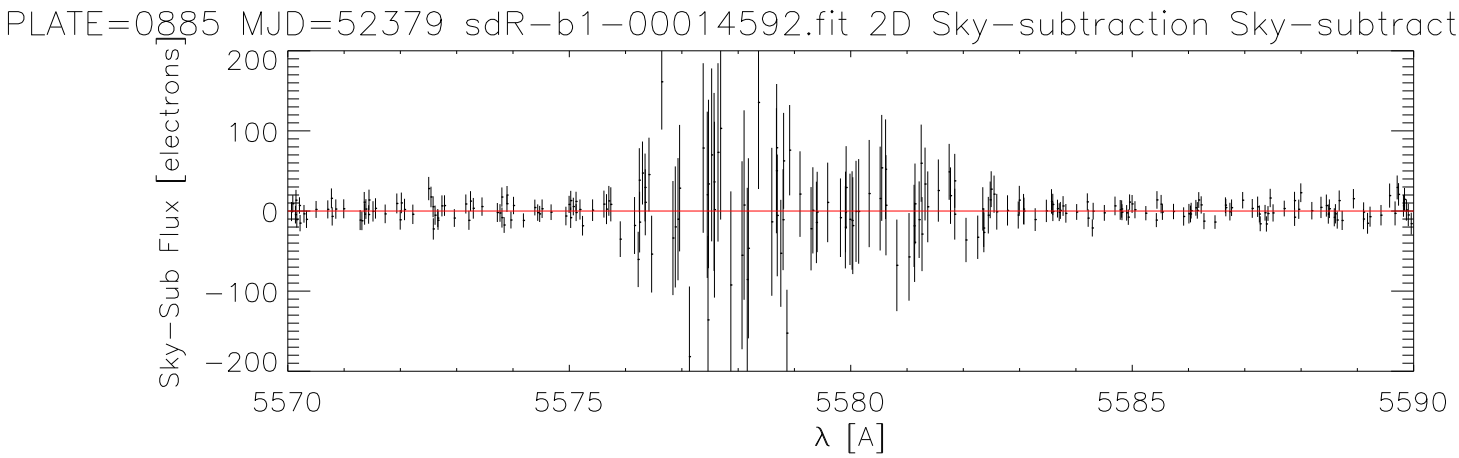

PLATE=0885 MJD=52379 sdR-b1-00014592.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

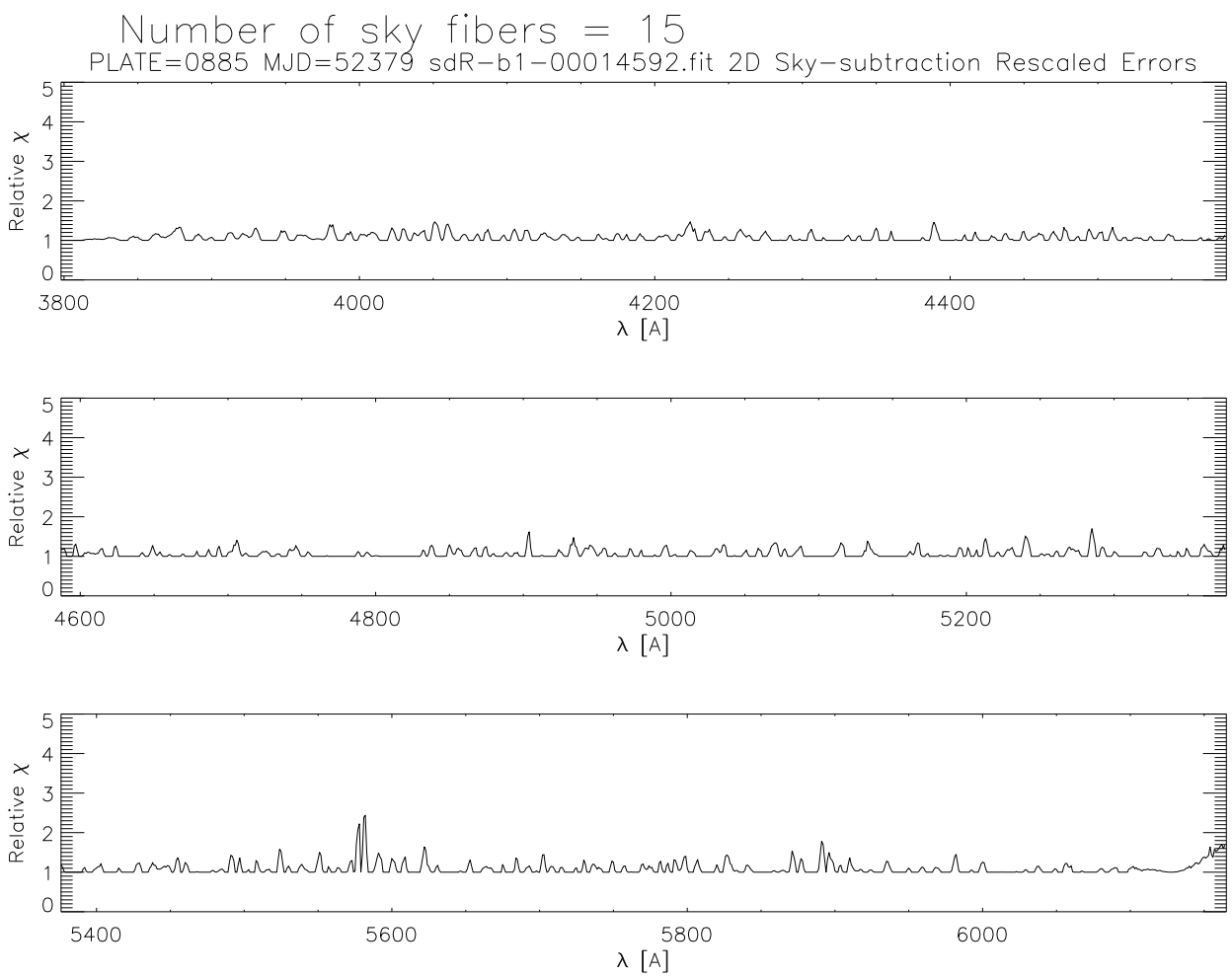

PLATE=0885 MJD=52379 sdR-b1-00014592.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

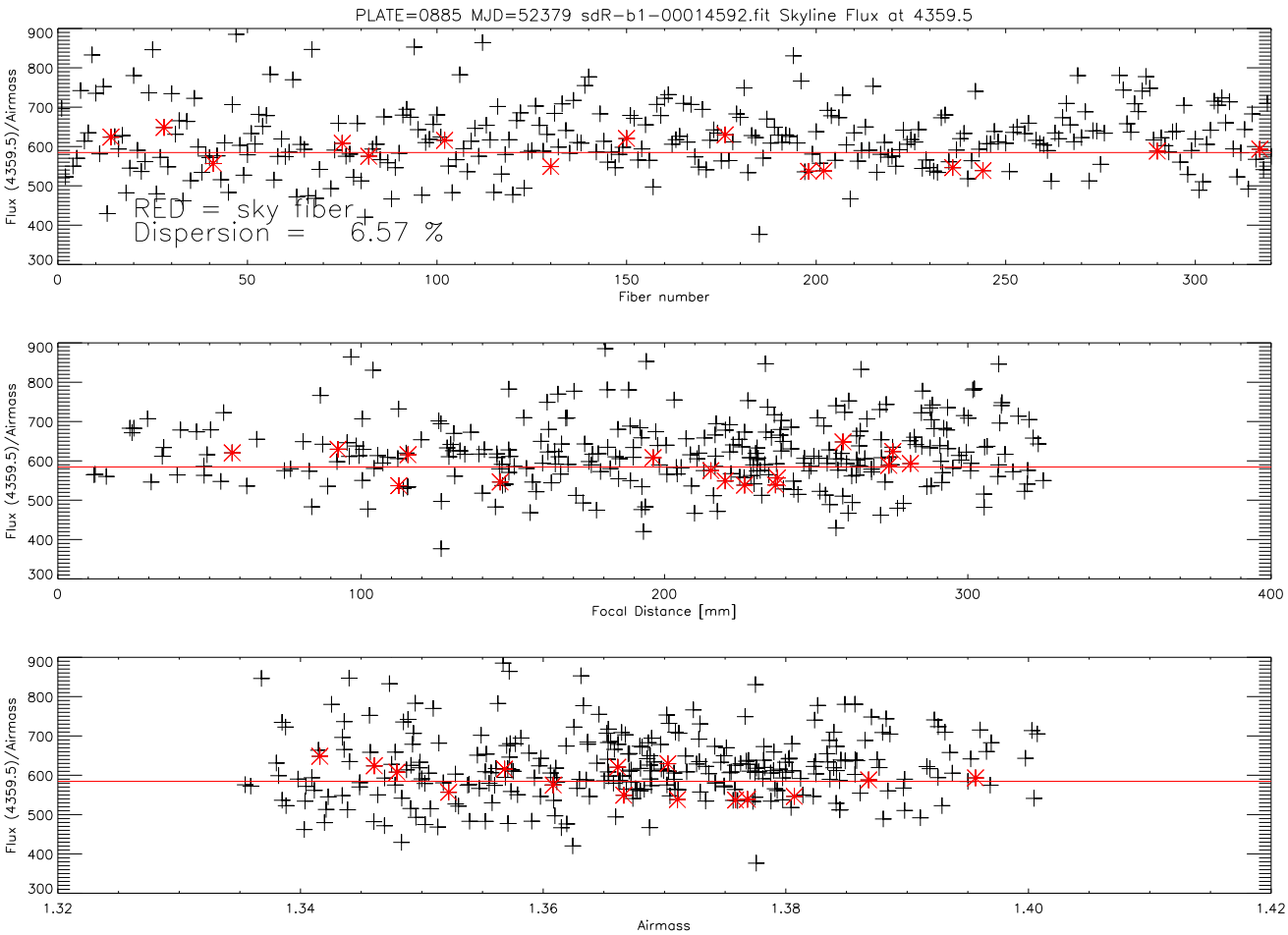

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-b1-00014592.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

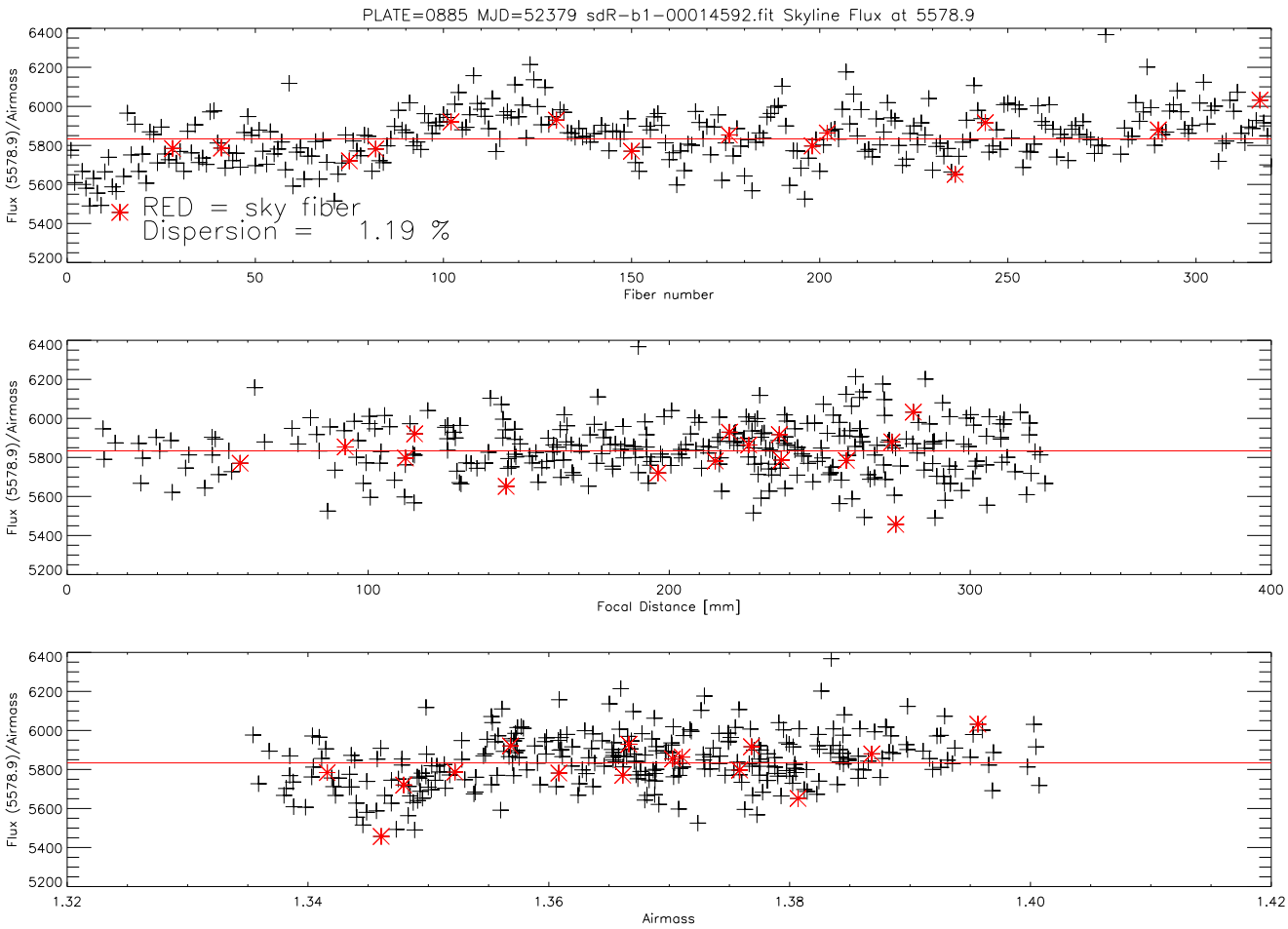

PLATE=0885 MJD=52379 sdR-b1-00014592.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

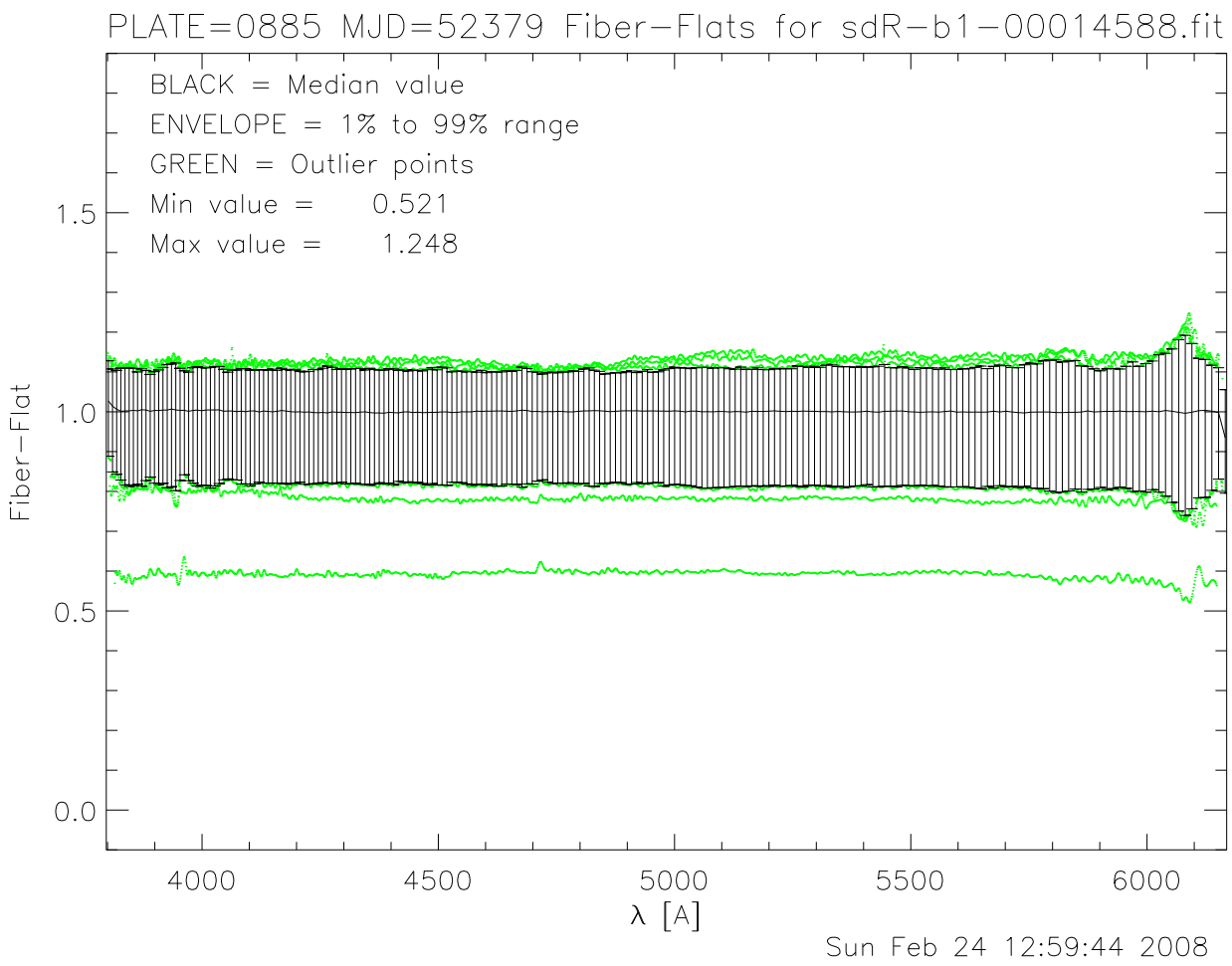

PLATE=0885 MJD=52379 sdR-b1-00014592.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

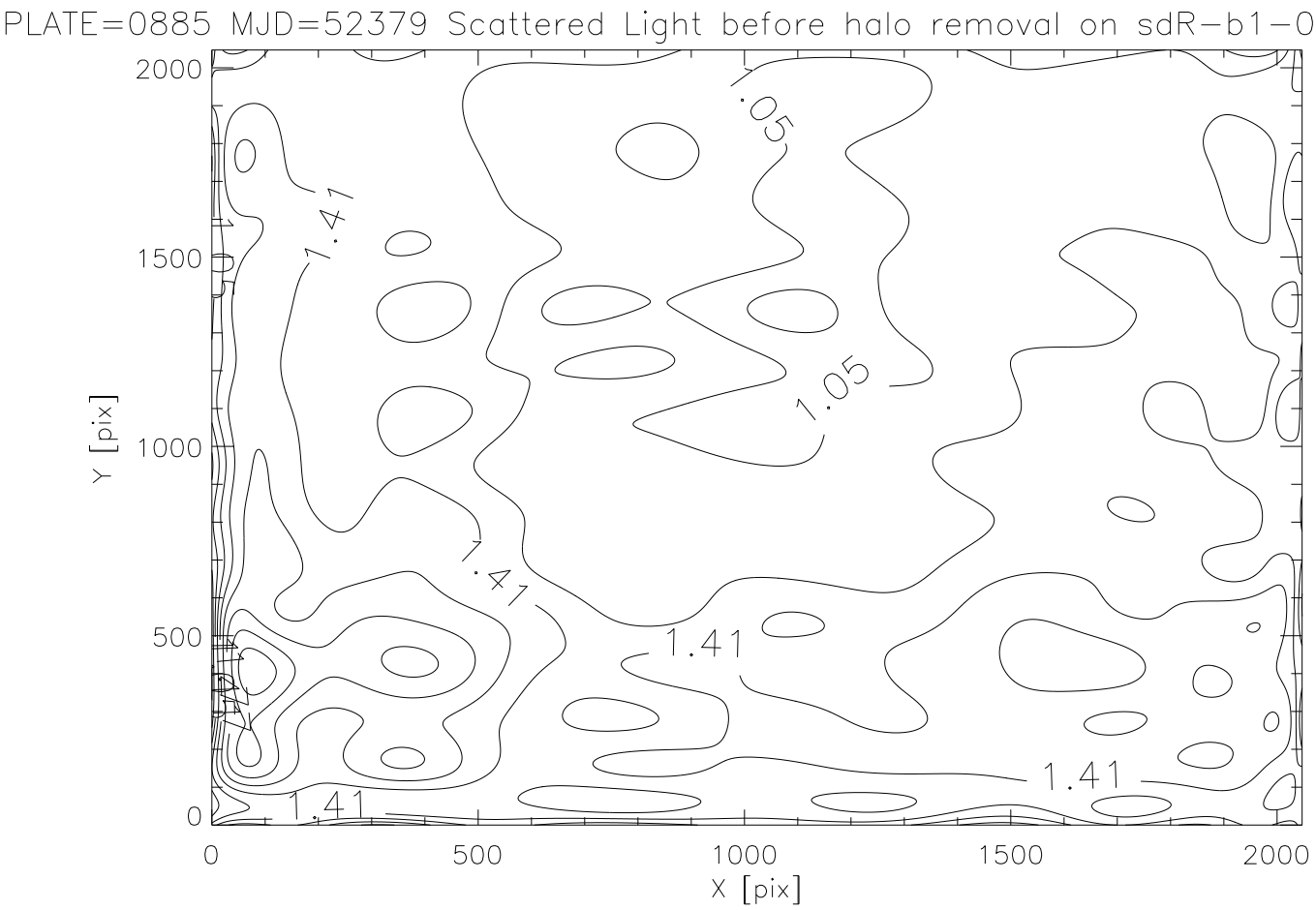

PLATE=0885 MJD=52379 sdR-b1-00014592.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

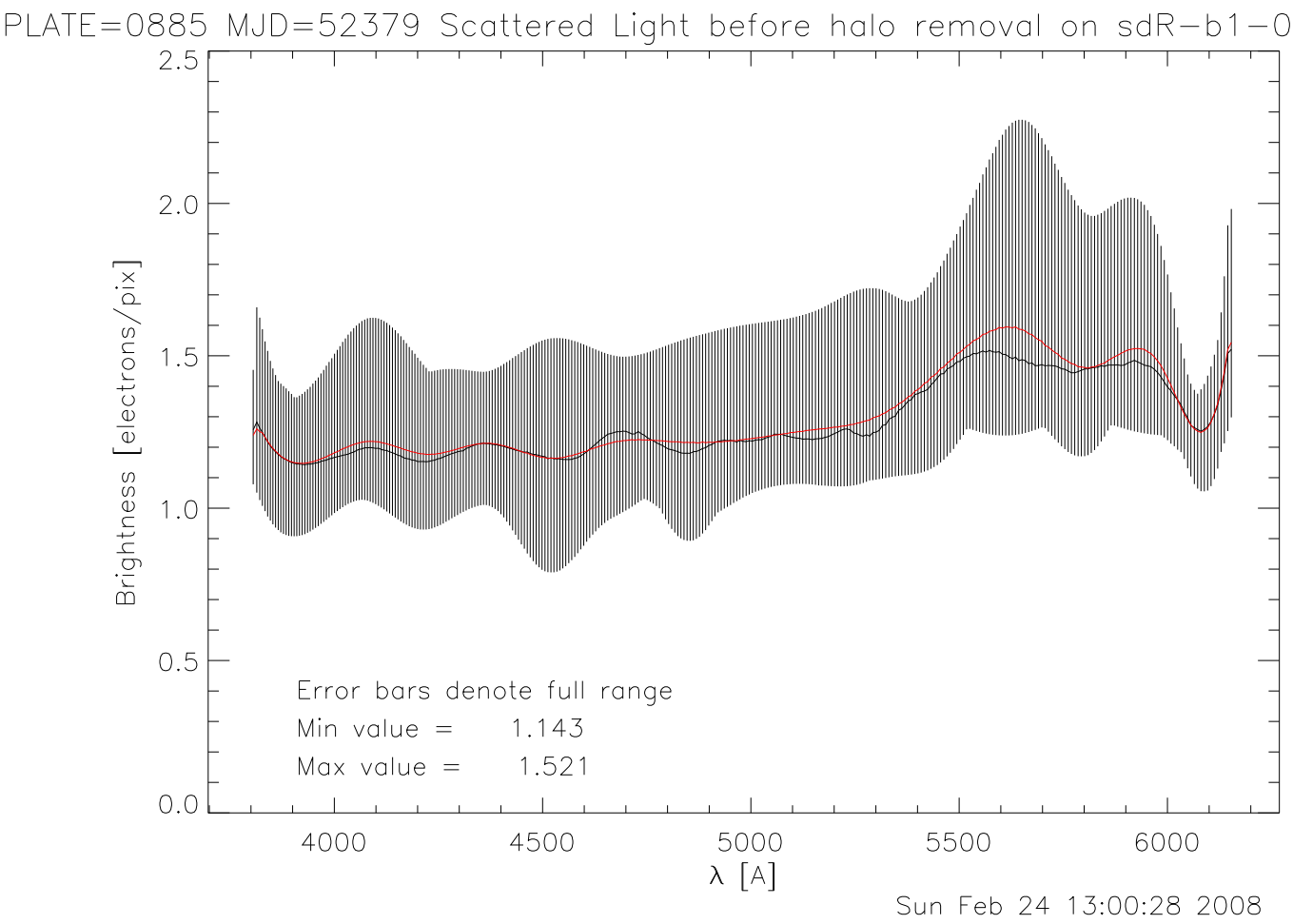

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-b1-00014592.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

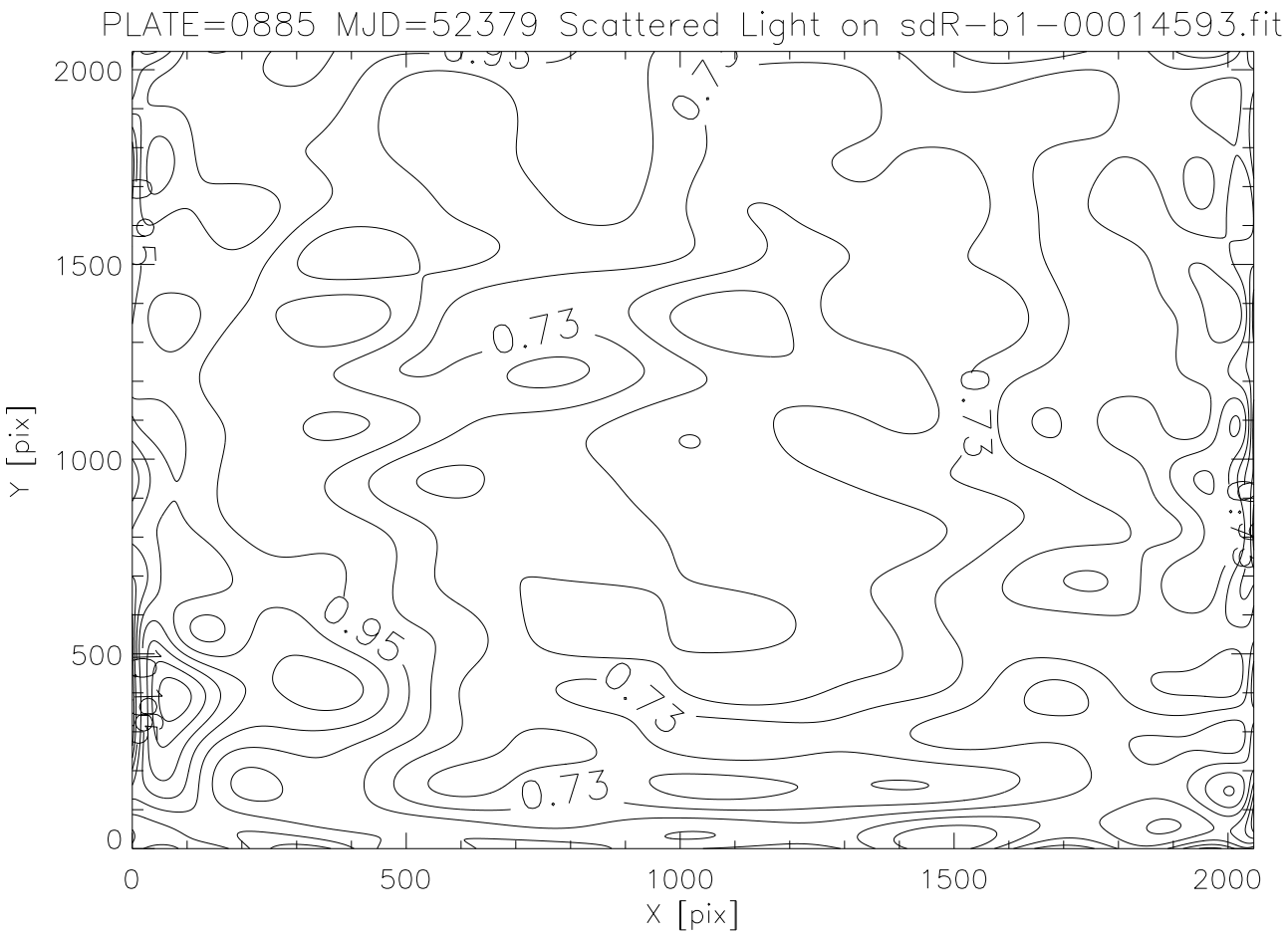

PLATE=0885 MJD=52379 sdR-b1-00014592.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 6.57 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

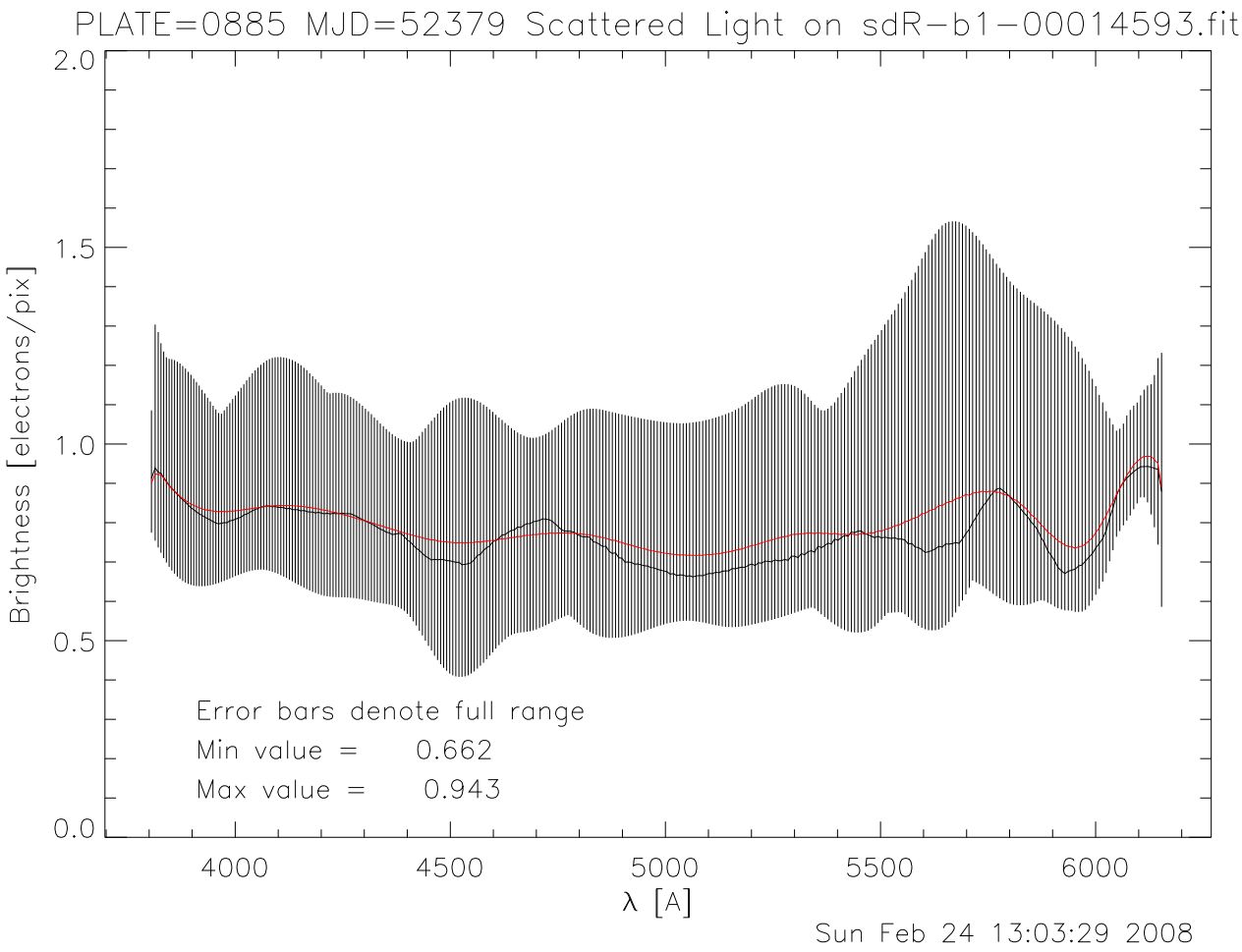

PLATE=0885 MJD=52379 sdR-b1-00014592.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.19 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

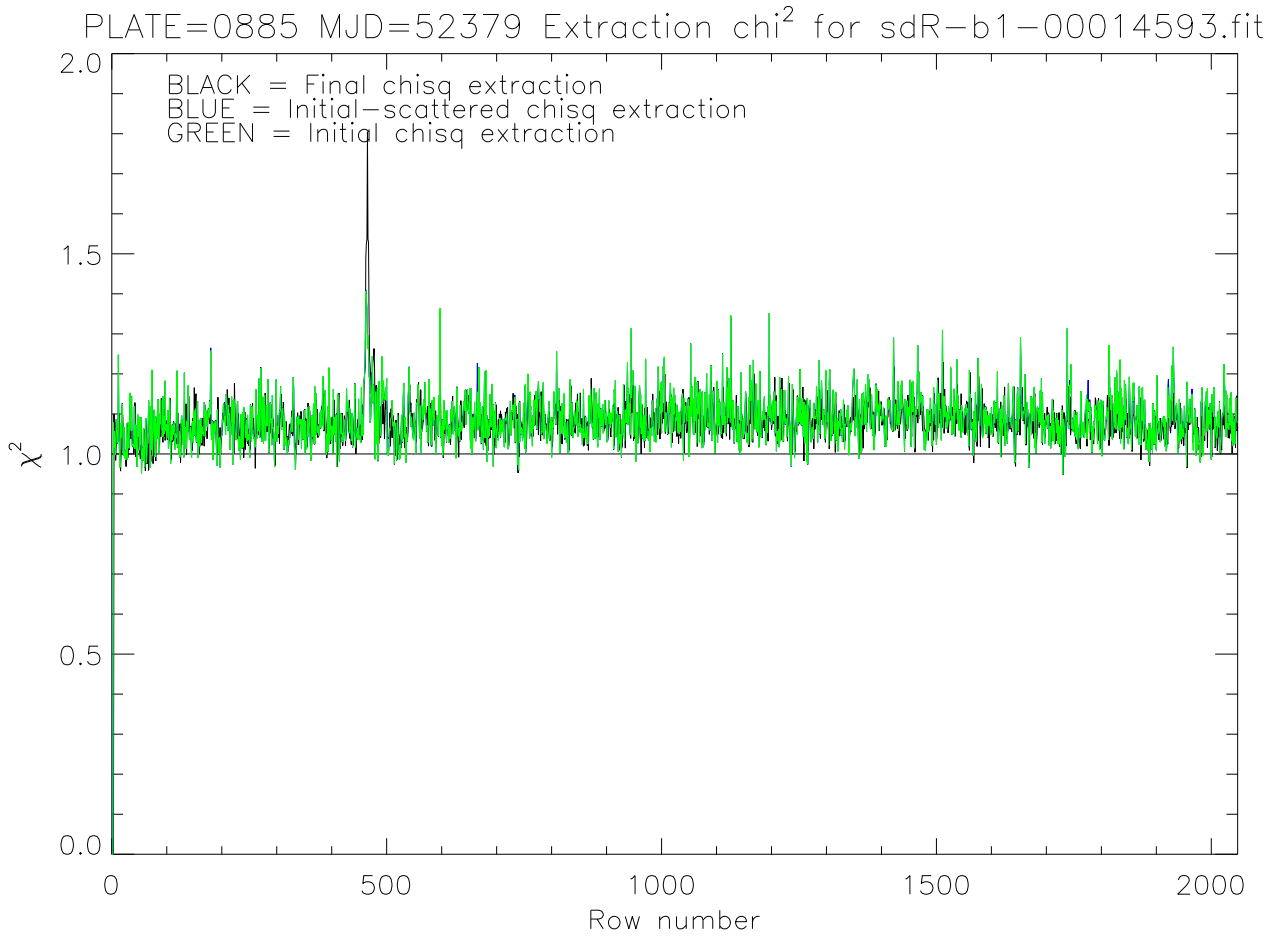

PLATE=0885 MJD=52379 Fiber-Flats for sdR-b1-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.521
Max value = 1.248
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 12:59:44 2008

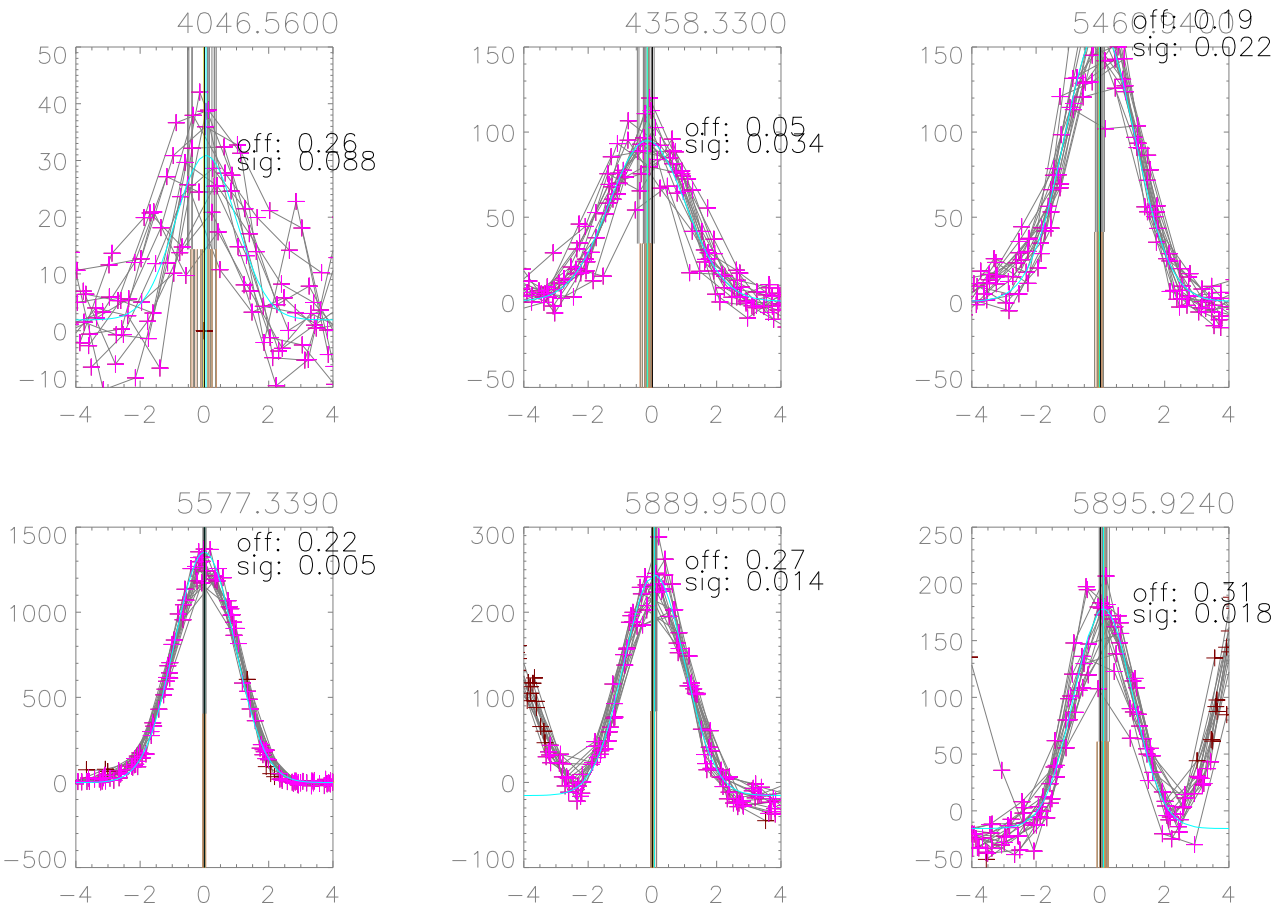

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR−b1−00014593.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.41
1.05
1.41
1.41
1.41
1.41
1.05
0
0
0

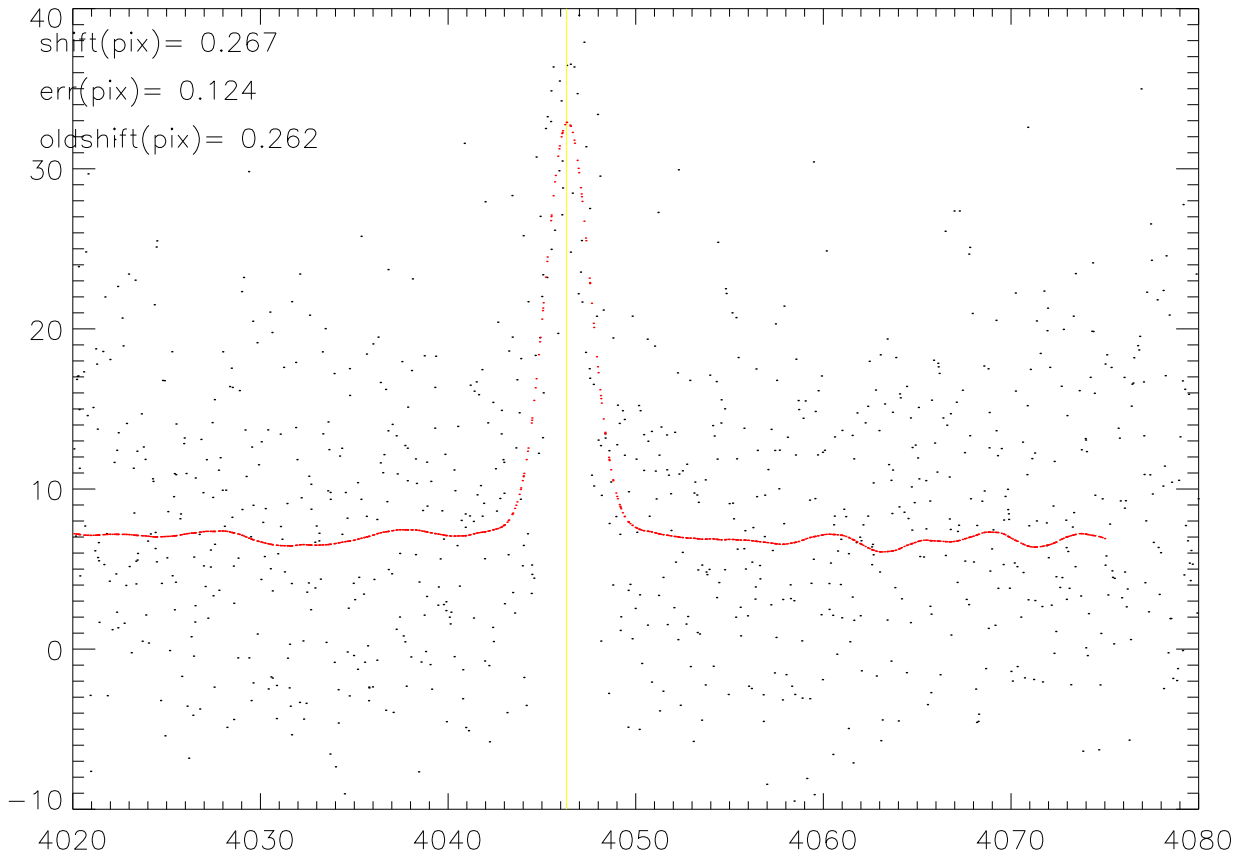

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b1-00014593.f
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.143
Max value = 1.521
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:00:28 2008

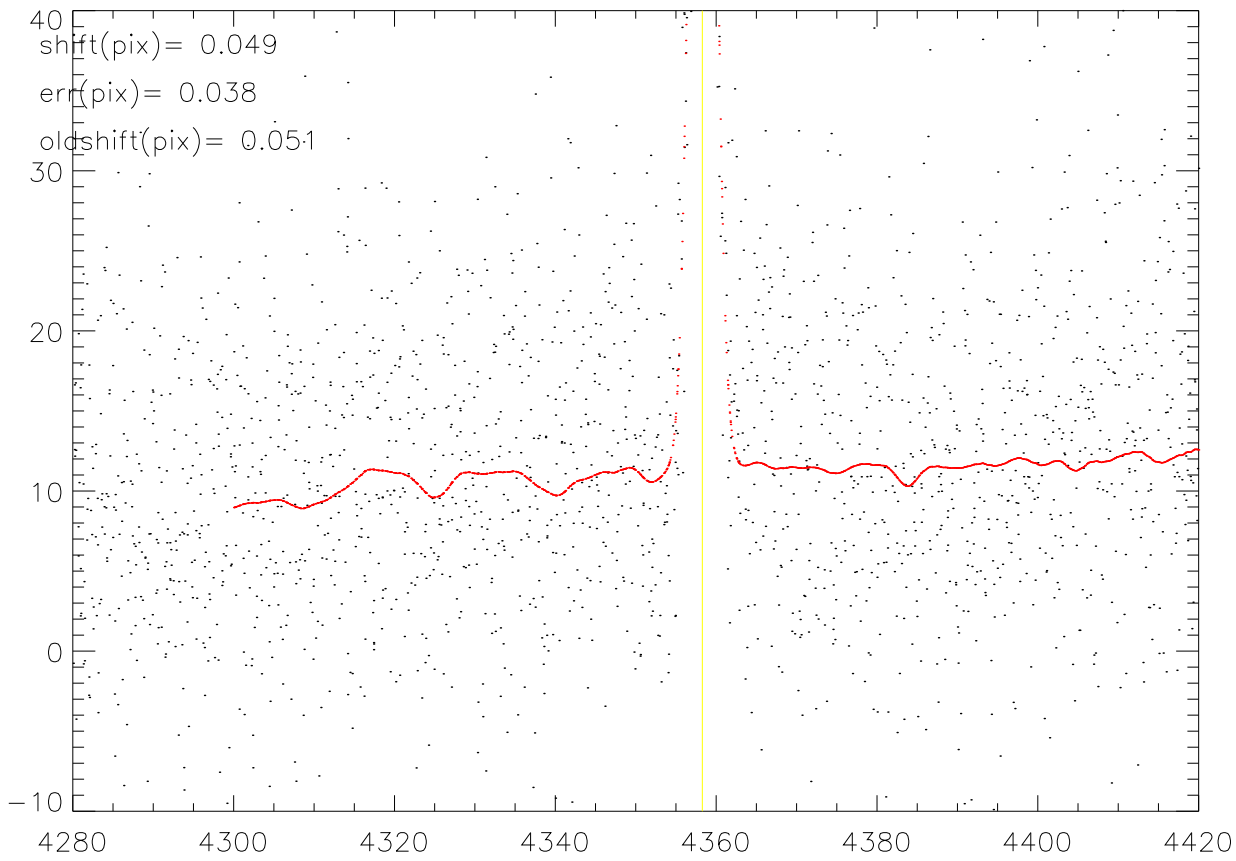

PLATE=0885 MJD=52379 Scattered Light on sdR-b1-00014593.fit
0.95
0.73
0.73
0.73
0.95
0.73
0.73
0.73

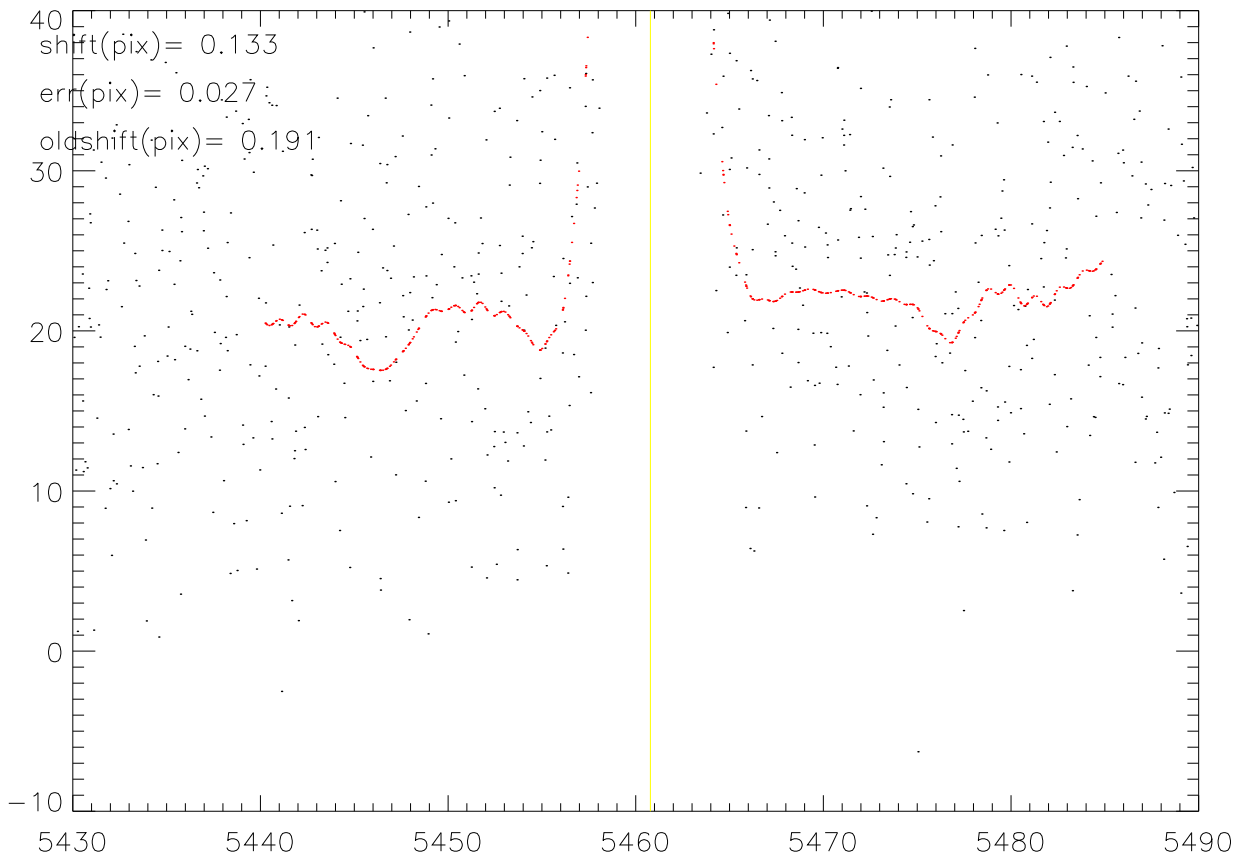

PLATE=0885 MJD=52379 Scattered Light on sdR-b1-00014593.fit
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.662
Max value = 0.943
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:03:29 2008

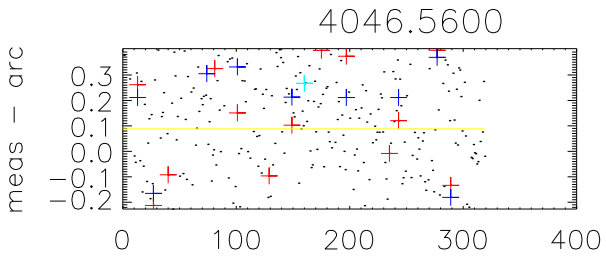

PLATE=0885 MJD=52379 Extraction chi^2 for sdR-b1-00014593.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

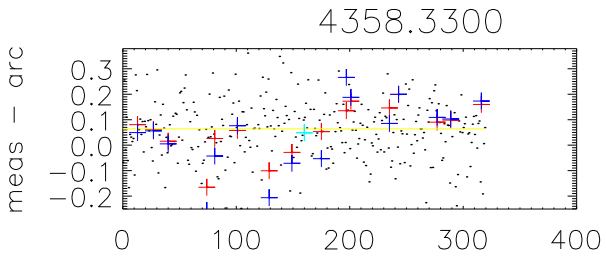

4046.5600
off: 0.26
sig: 0.088
4358.3300
off: 0.05
sig: 0.034
5469.5400
off: 0.19
sig: 0.022
5577.3390
off: 0.22
sig: 0.005
5889.9500
off: 0.27
sig: 0.014
5895.9240
off: 0.31
sig: 0.018

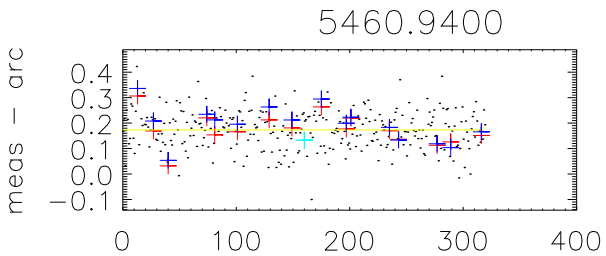

shift(pix)= 0.267
err(pix)= 0.124
oldshift(pix)= 0.262
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

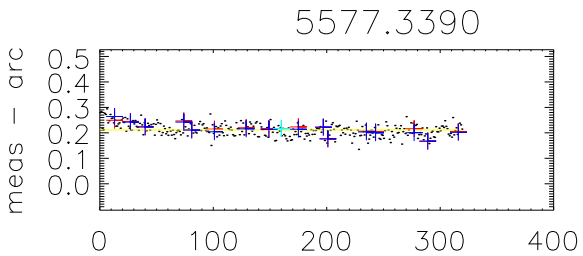

shift(pix)= 0.049
err(pix)= 0.038
oldshift(pix)= 0.051
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

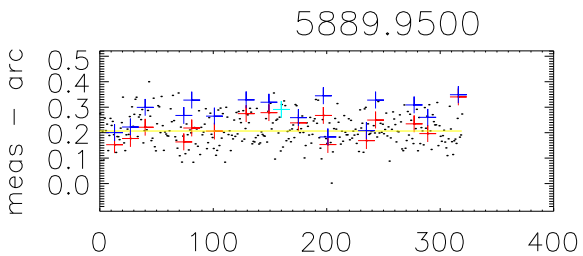

shift(pix)= 0.133
err(pix)= 0.027
oldshift(pix)= 0.191
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

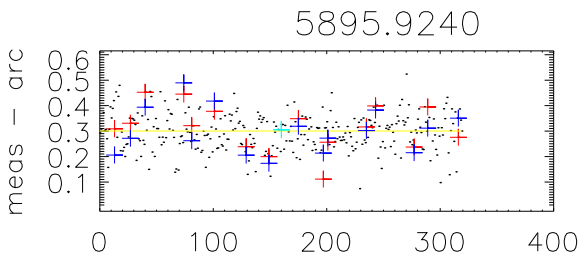

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

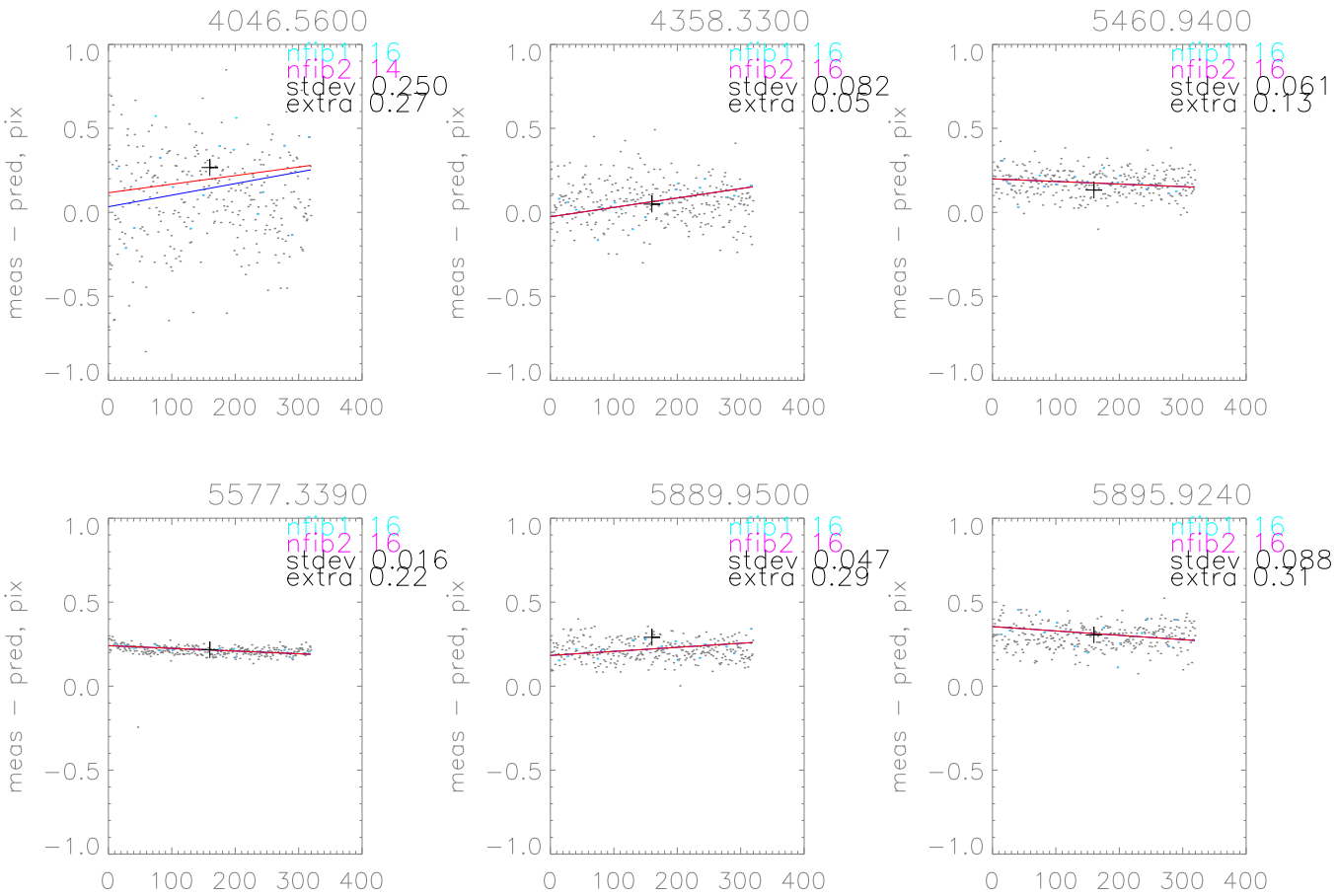

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

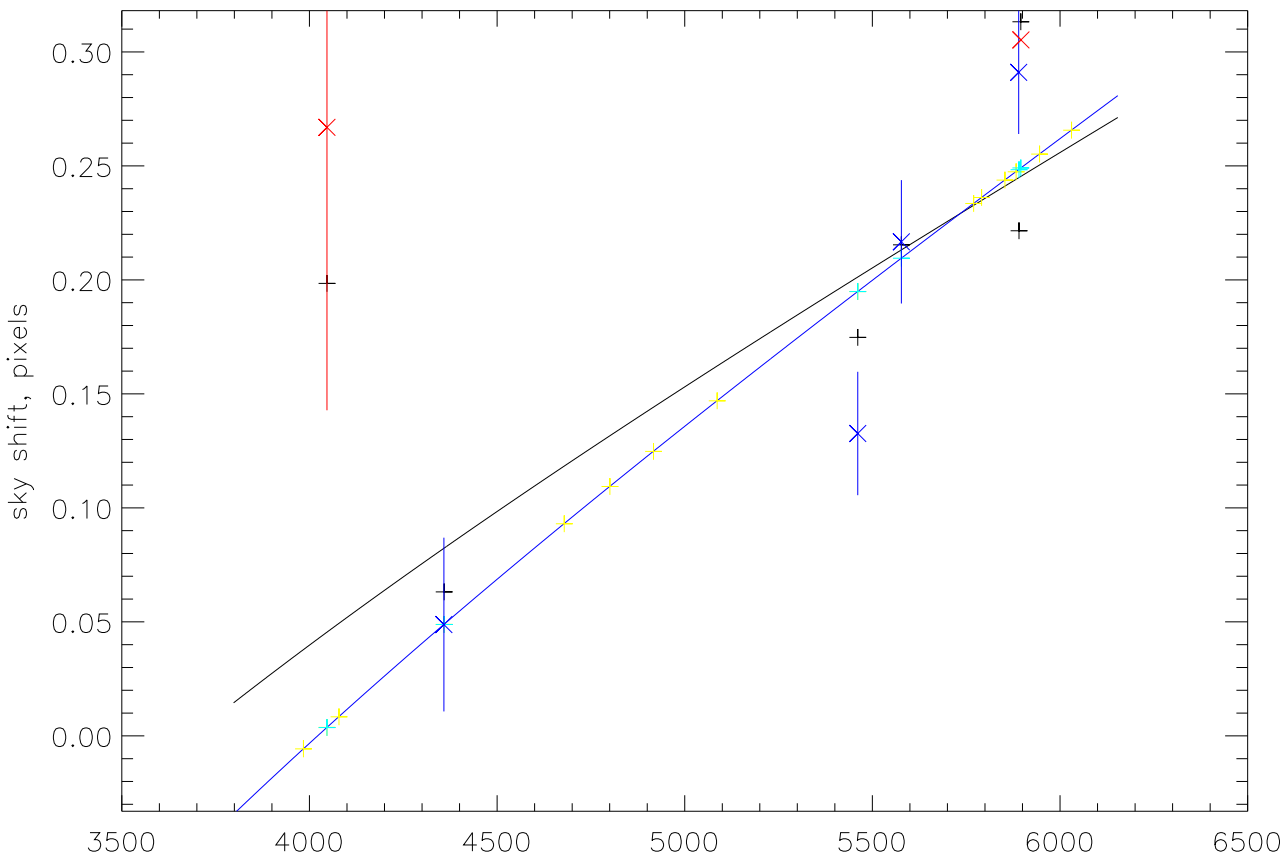

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

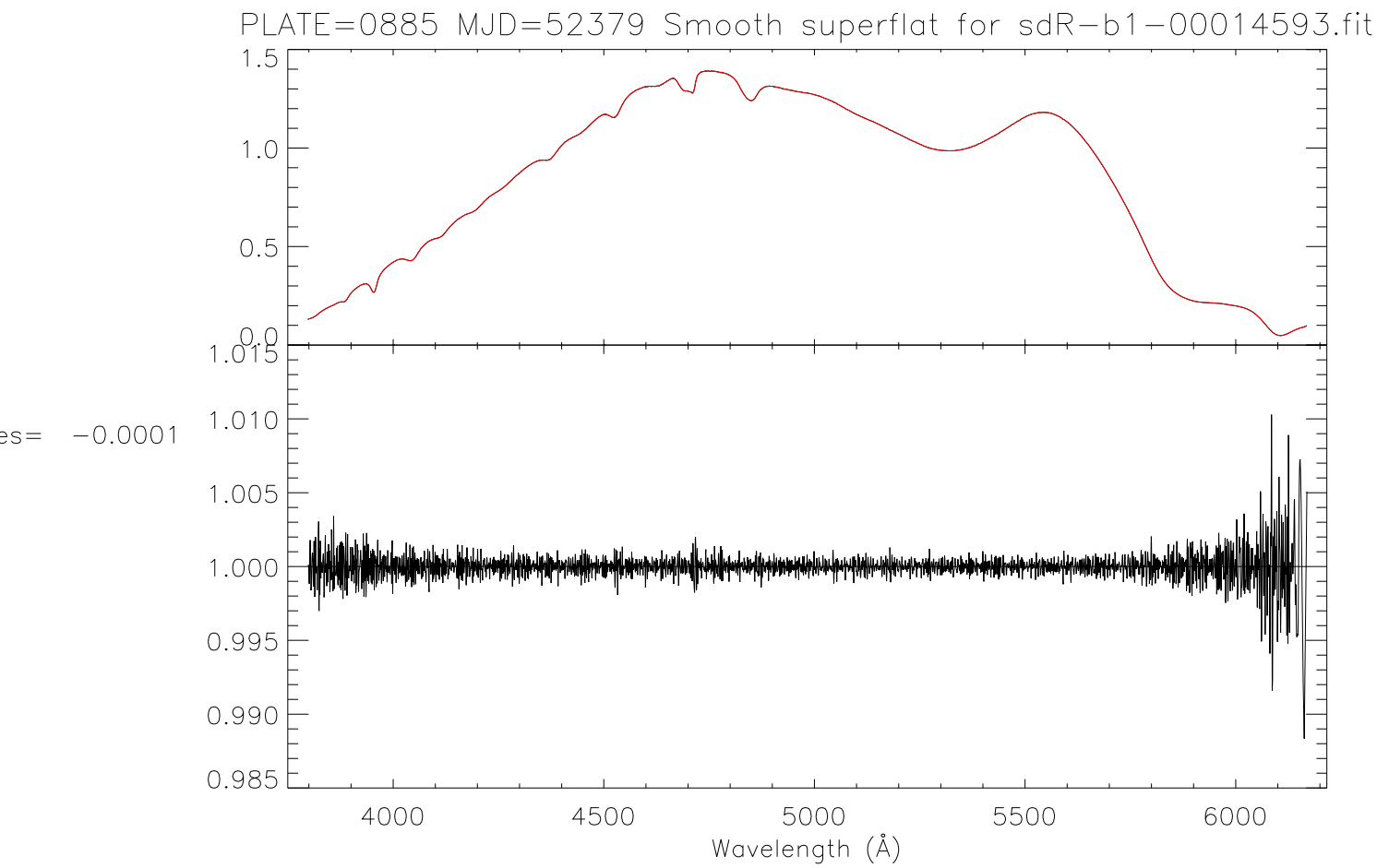

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

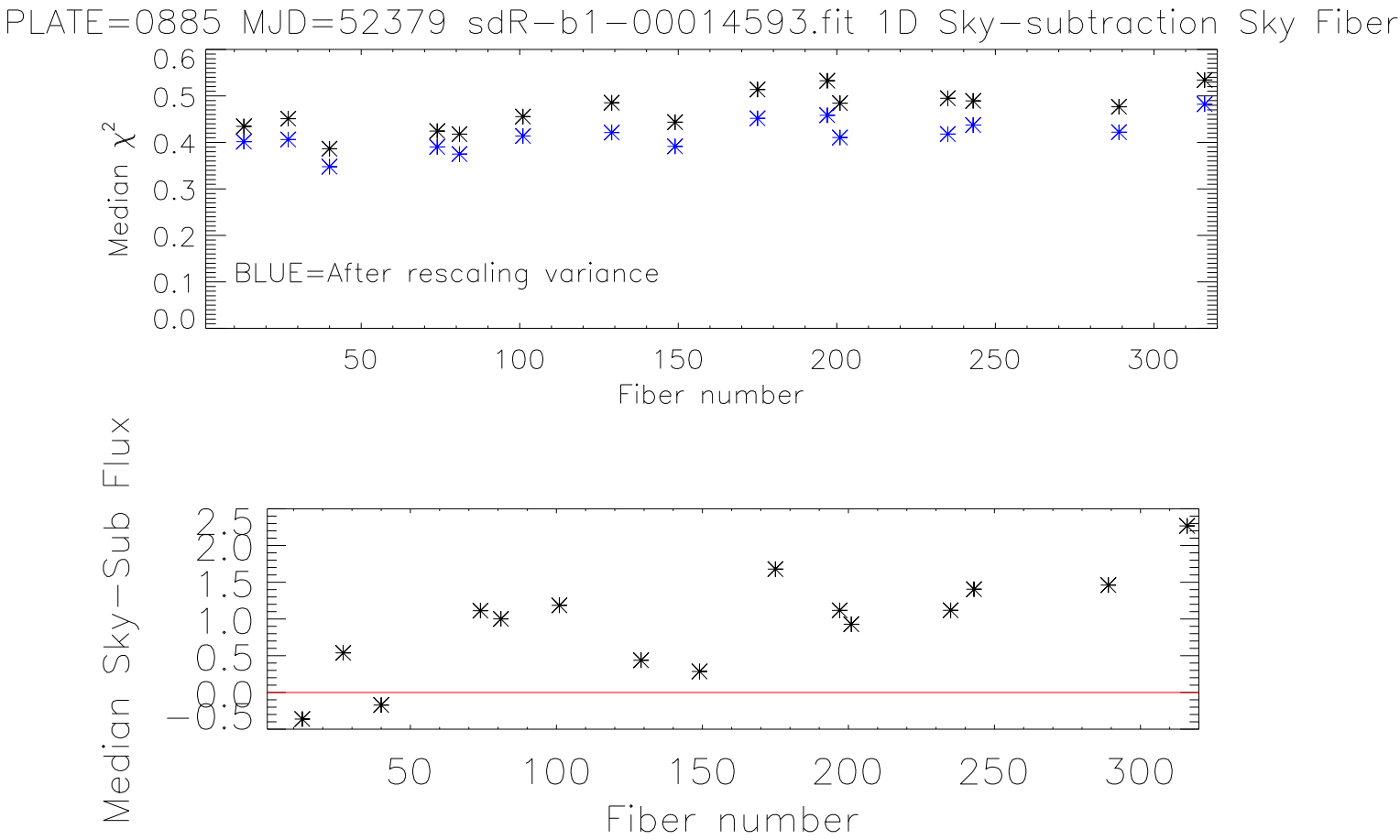

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

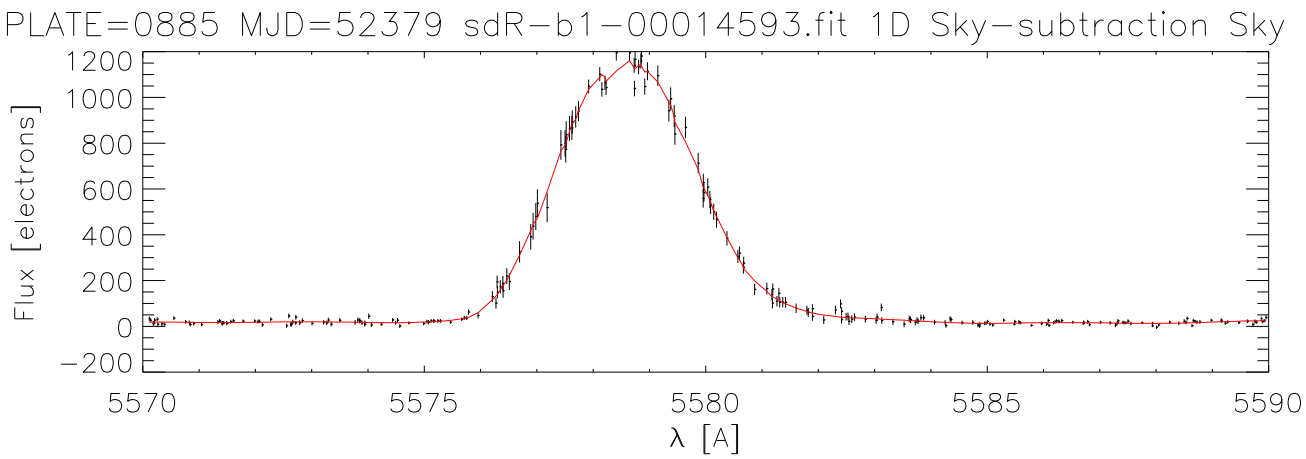

4046.5600
nfib1 16
nfib2 14
stdev 0.250
extra 0.27
4358.3300
nfib1 16
nfib2 16
stdev 0.082
extra 0.05
5460.9400
nfib1 16
nfib2 16
stdev 0.061
extra 0.13
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra 0.22
5889.9500
nfib1 16
nfib2 16
stdev 0.047
extra 0.29
5895.9240
nfib1 16
nfib2 16
stdev 0.088
extra 0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

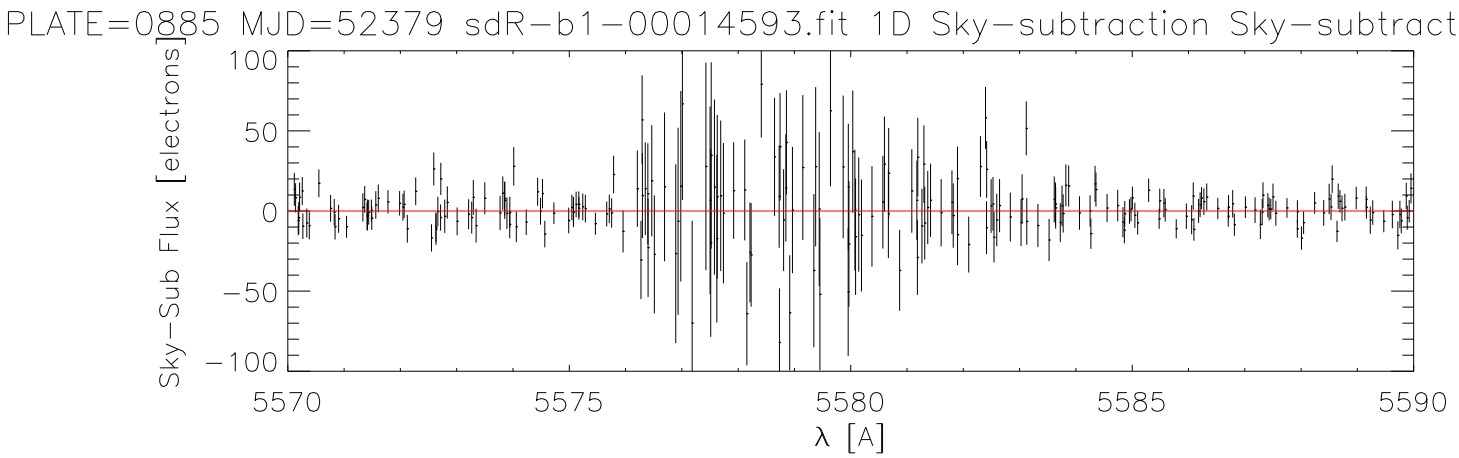

sky shift, pixels
0.30
0.25
0.20
0.15
0.10
0.05
0.00
3500
4000
4500
5000
5500
6000
6500

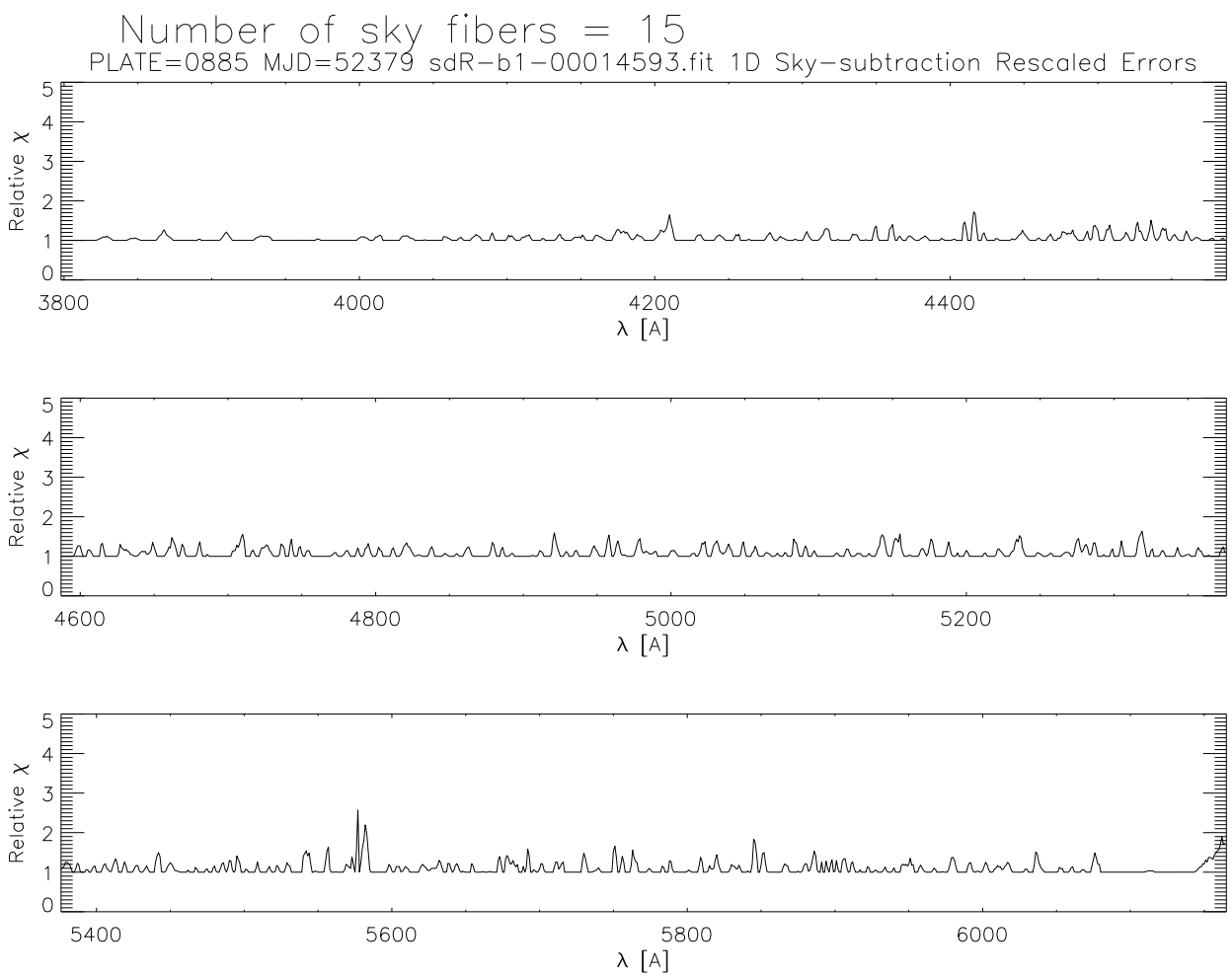

PLATE=0885 MJD=52379 Smooth superflat for sdR-b1-00014593.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

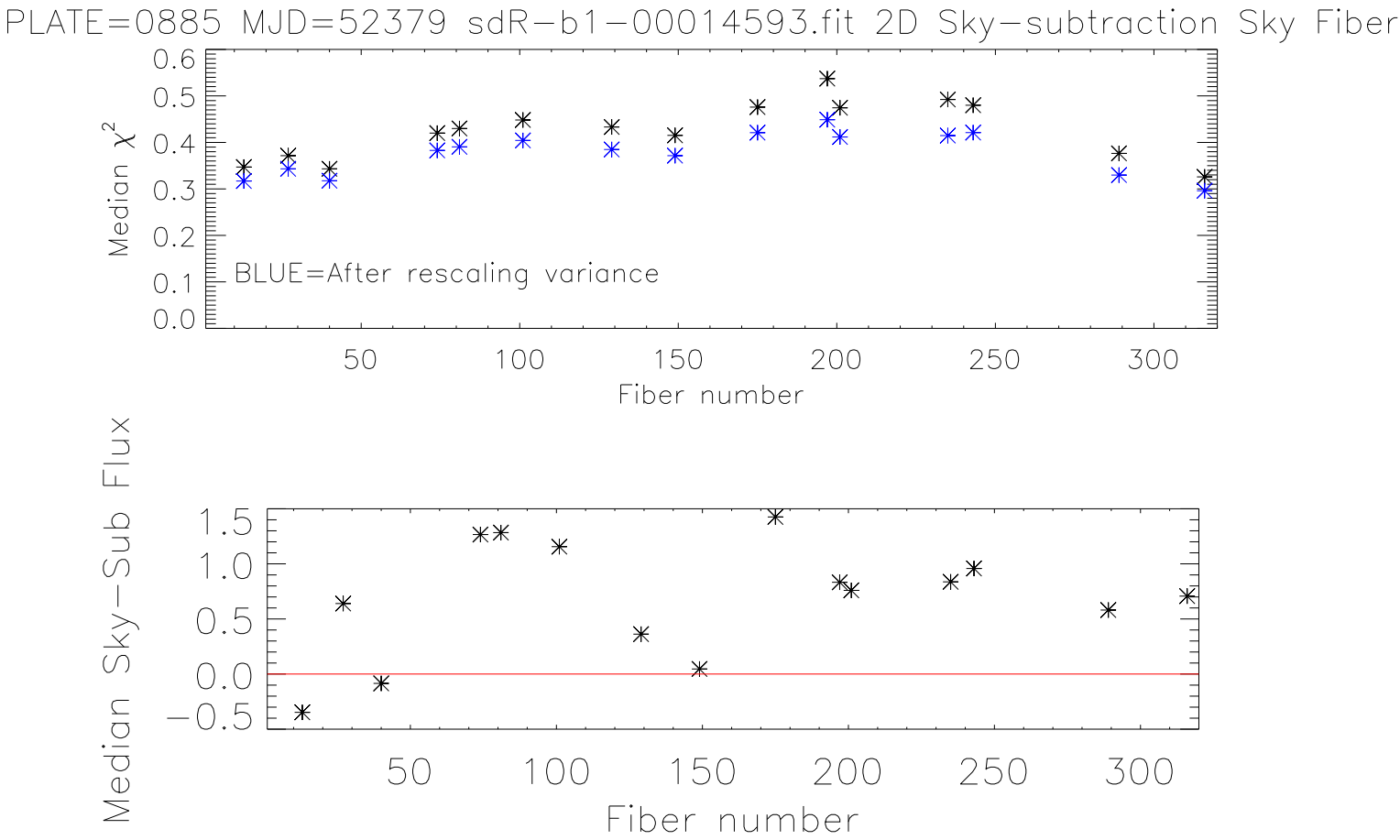
es= −0.0001

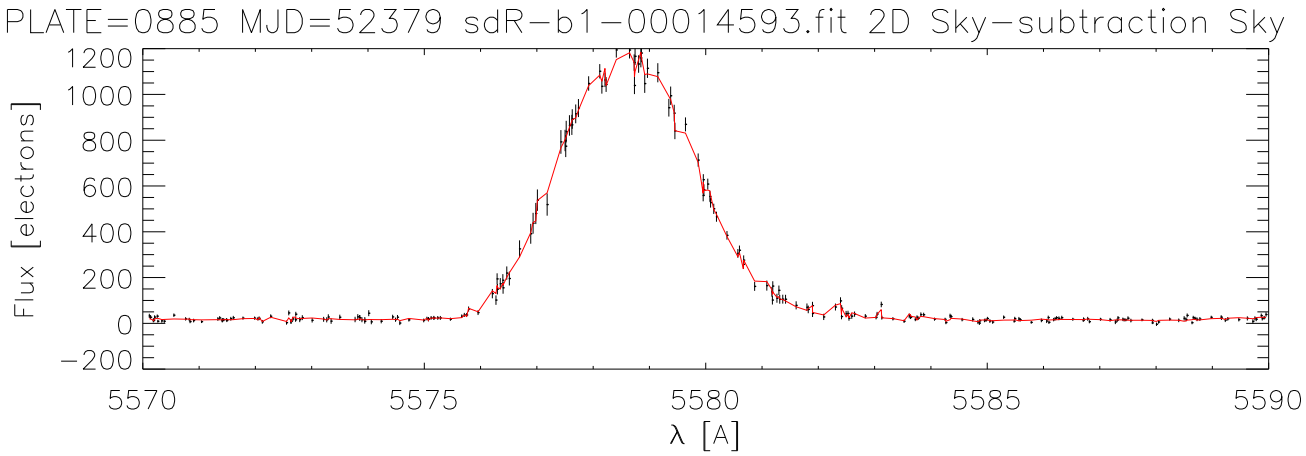

PLATE=0885 MJD=52379 sdR-b1-00014593.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

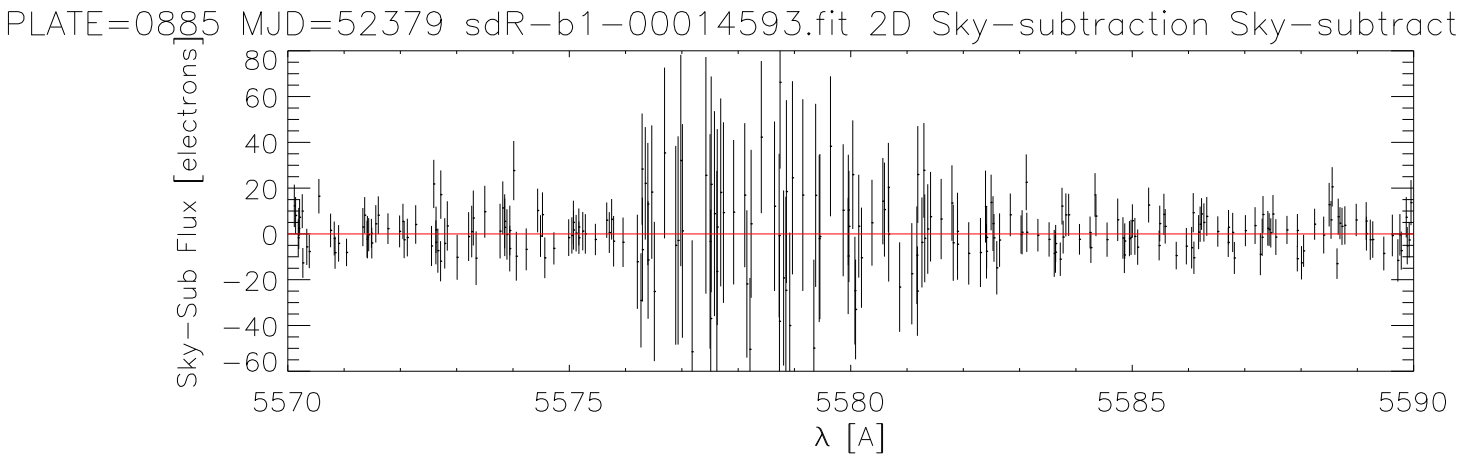

PLATE=0885 MJD=52379 sdR-b1-00014593.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

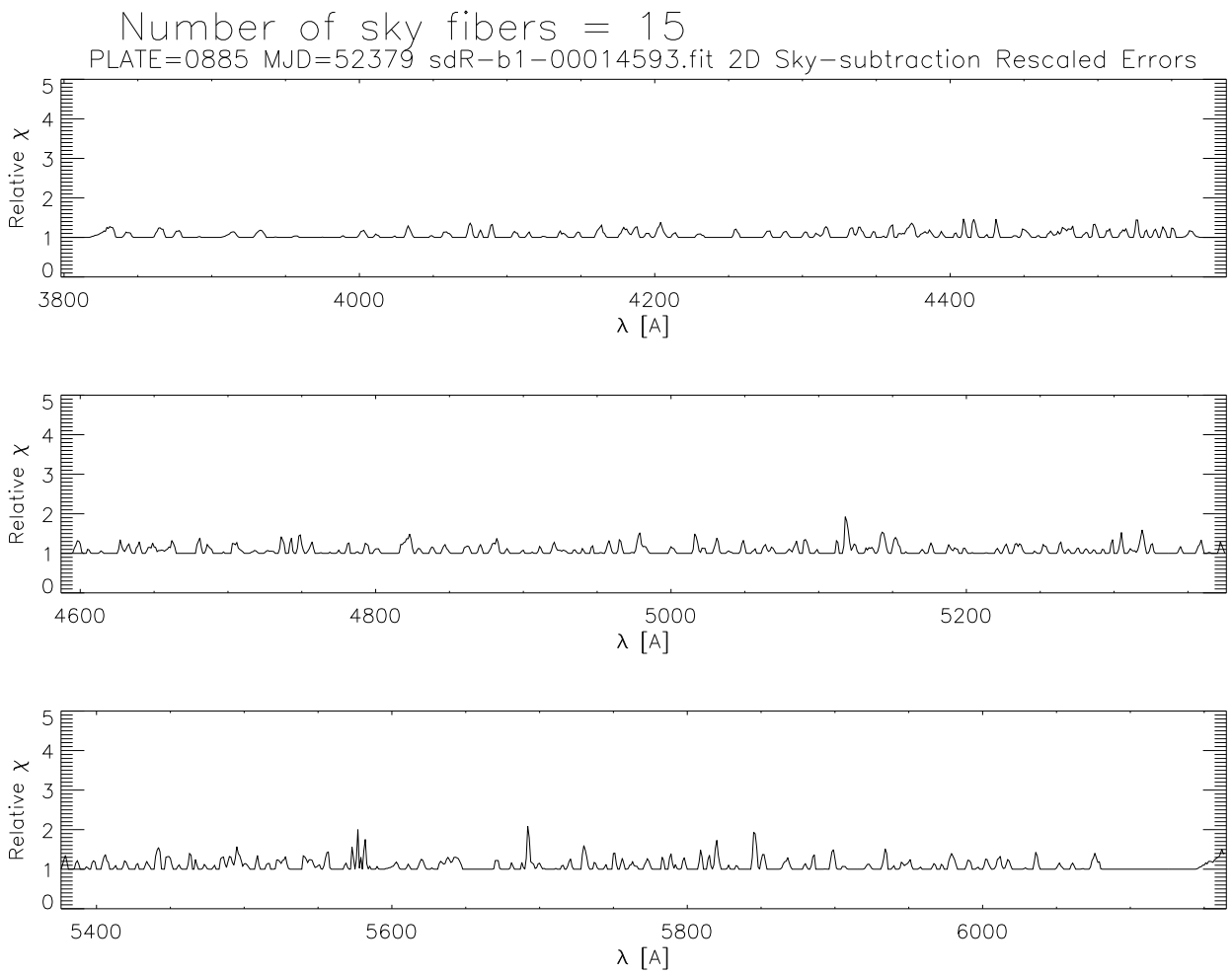

PLATE=0885 MJD=52379 sdR-b1-00014593.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

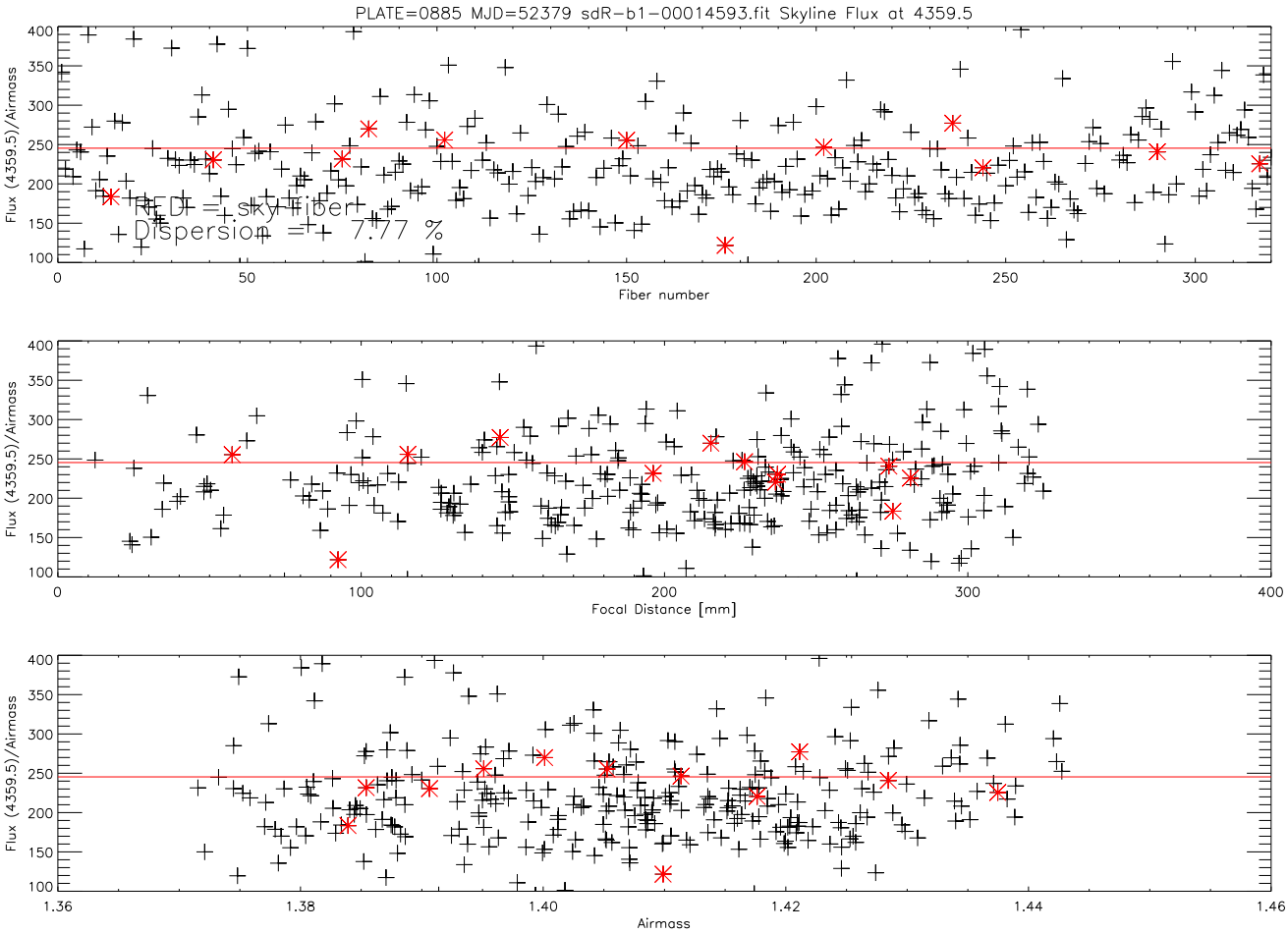

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-b1-00014593.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

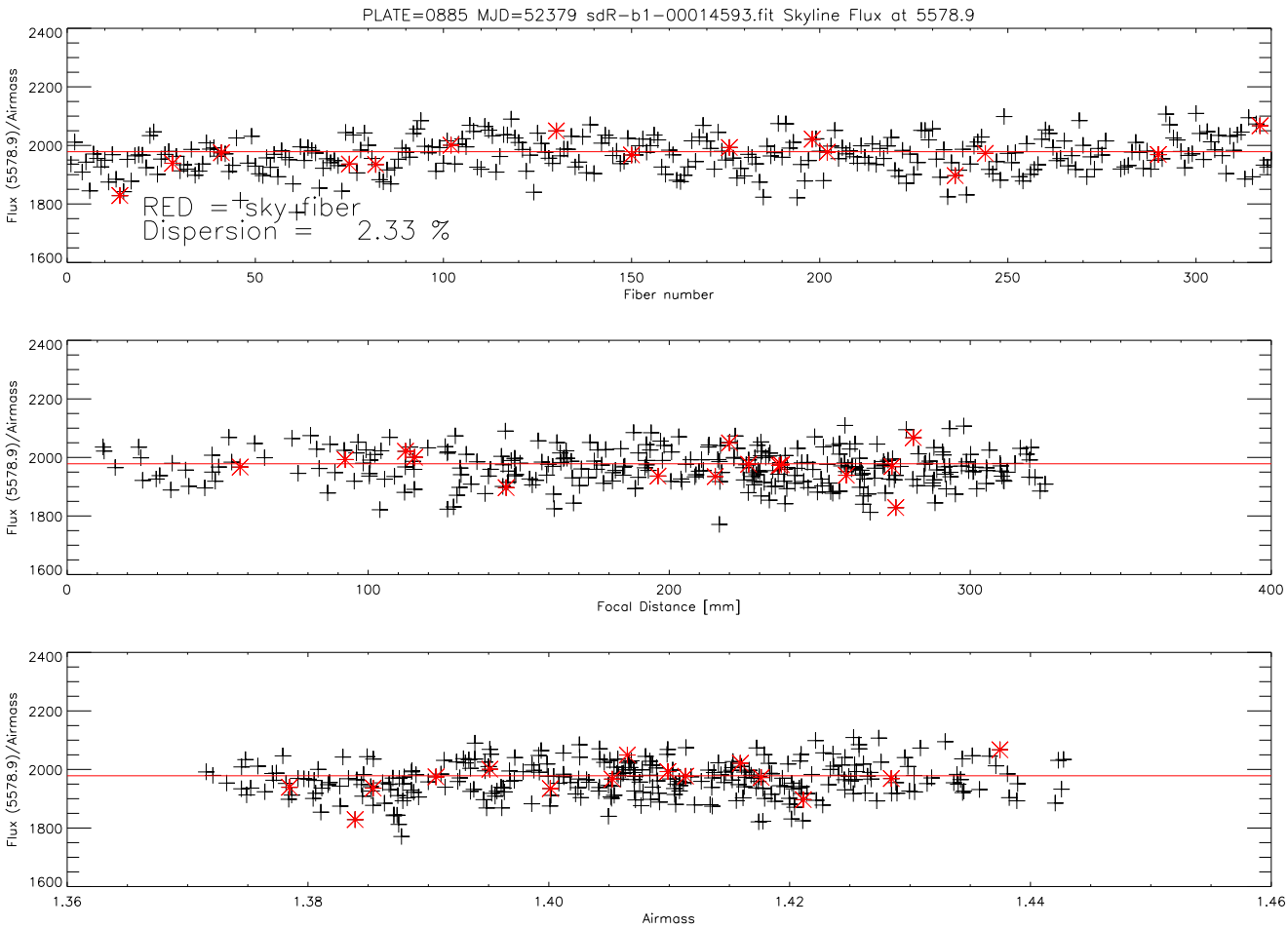

PLATE=0885 MJD=52379 sdR-b1-00014593.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

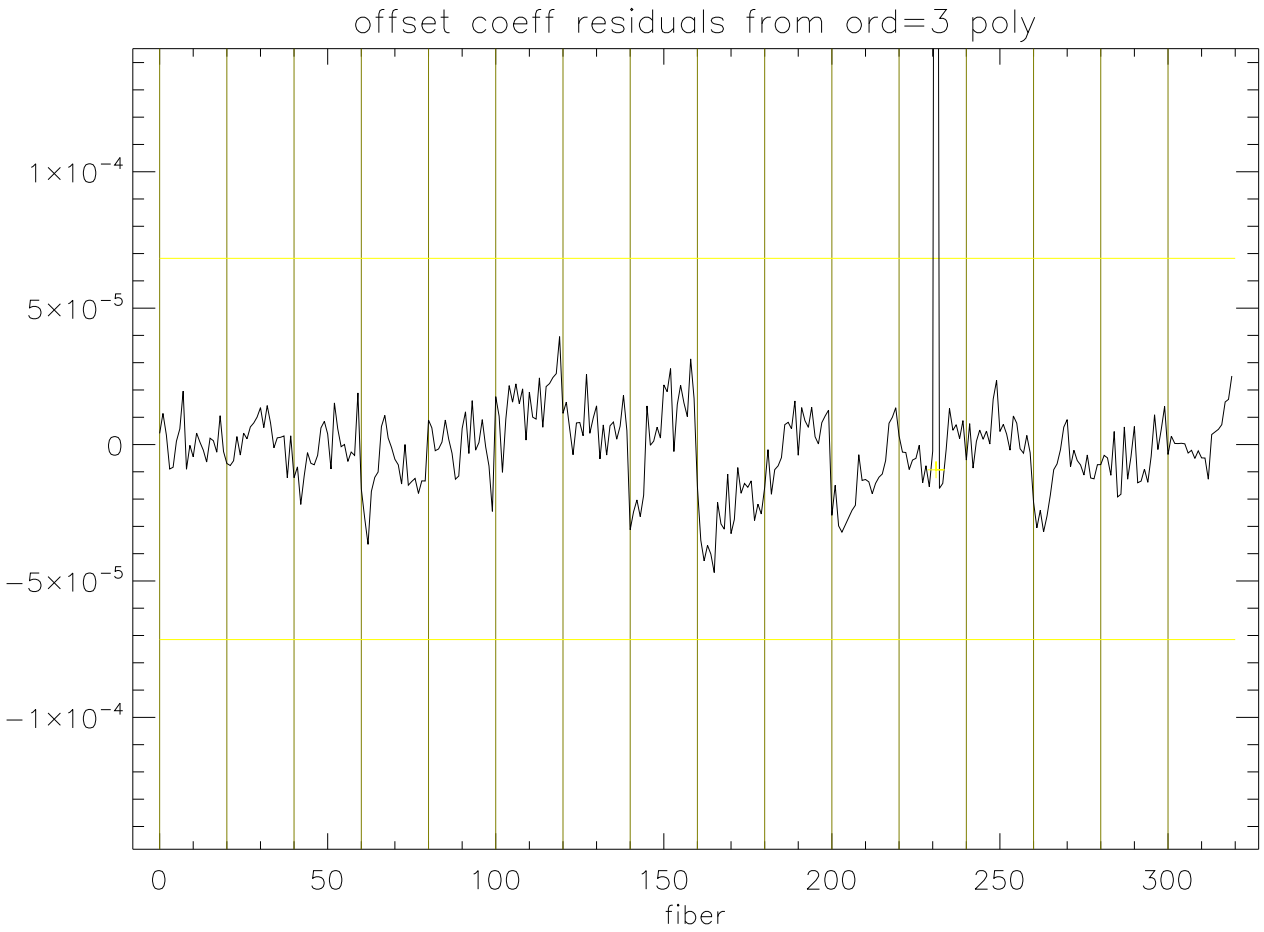

PLATE=0885 MJD=52379 sdR-b1-00014593.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

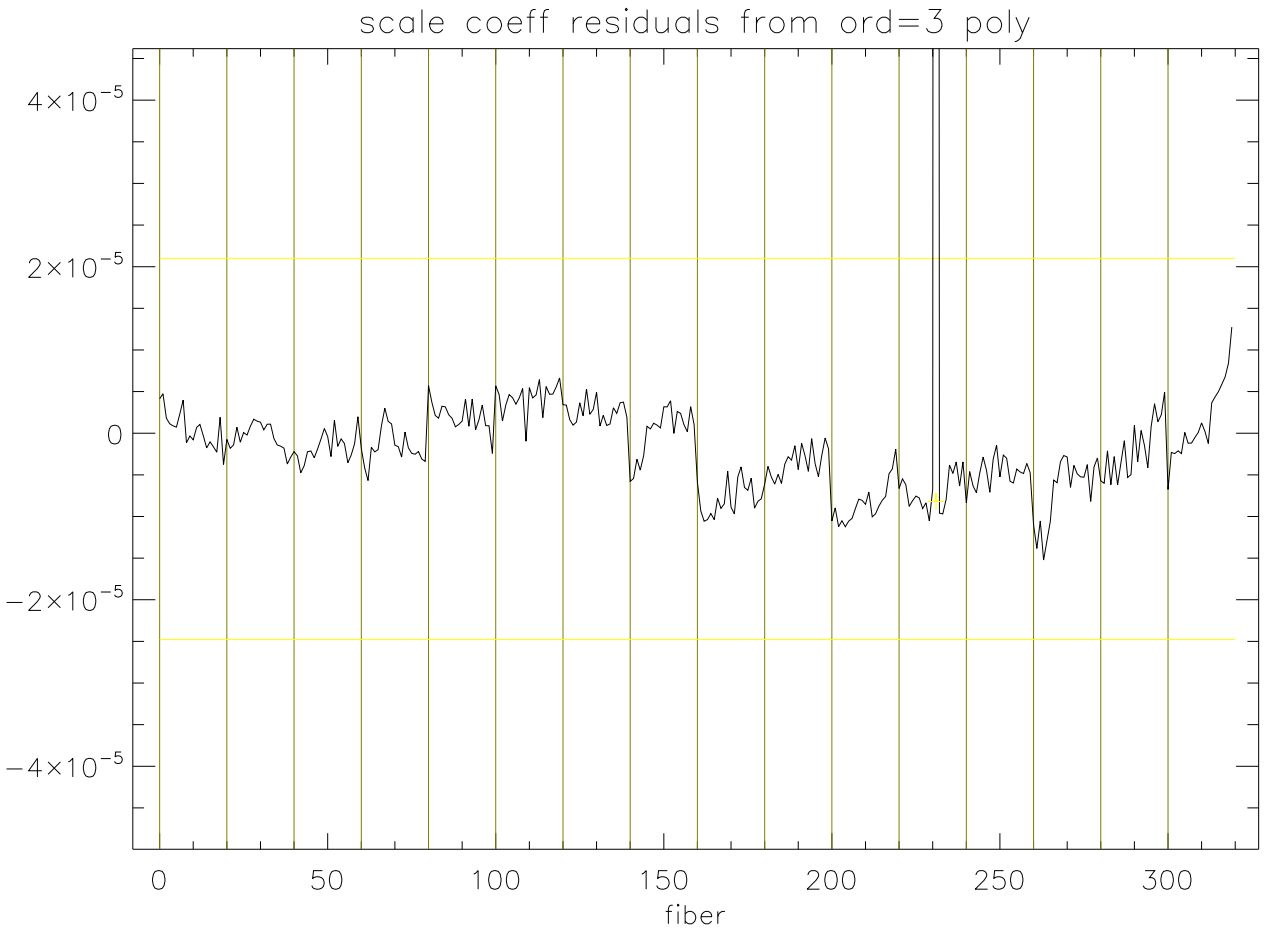

PLATE=0885 MJD=52379 sdR-b1-00014593.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
-20
-40
-60
5570
5575
5580
5585
5590
λ [A]

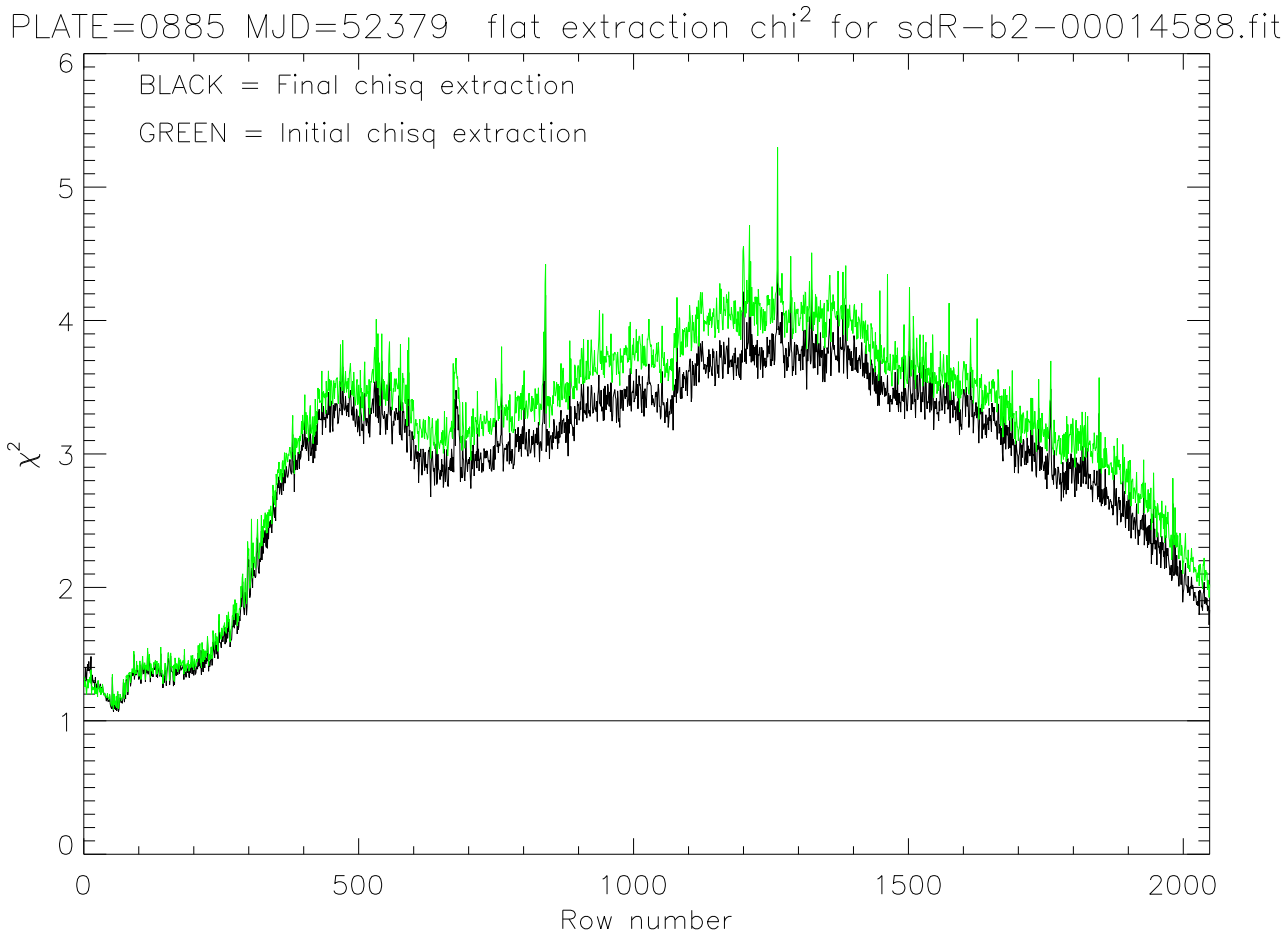

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-b1-00014593.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

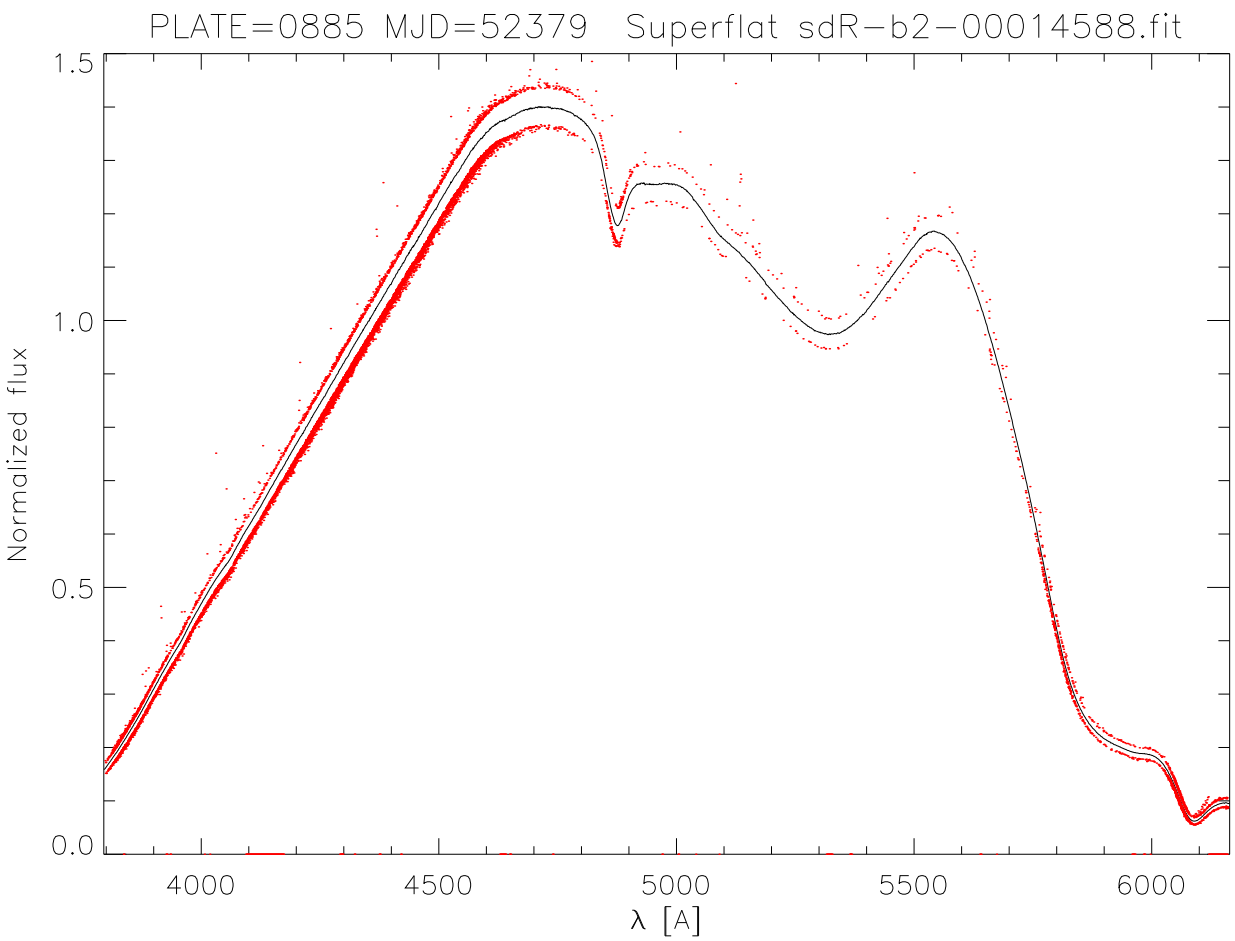

PLATE=0885 MJD=52379 sdR-b1-00014593.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 7.77 %
Flux (4359.5)/Airmass
Fiber number
Focal Distance [mm]
Airmass

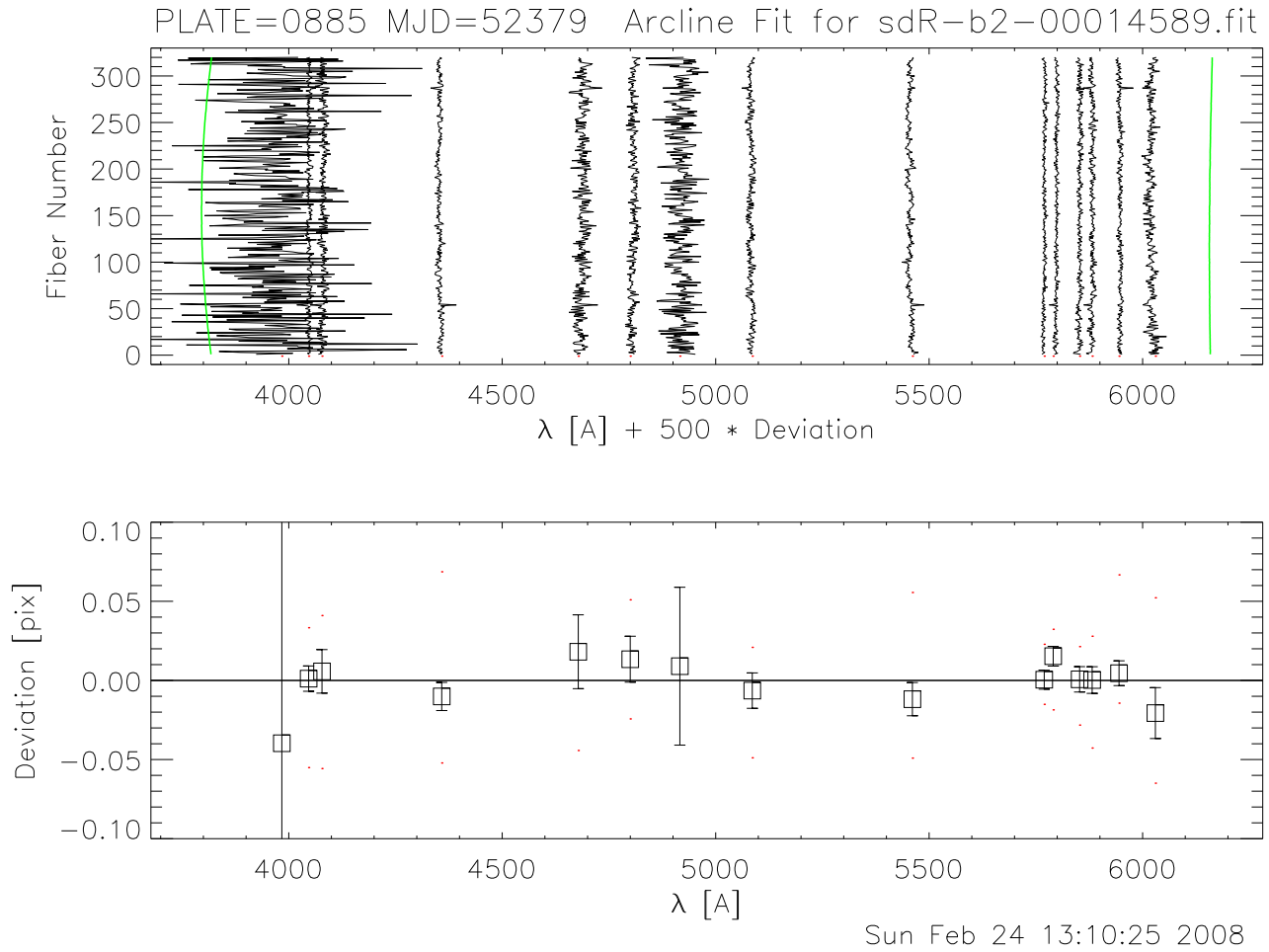

PLATE=0885 MJD=52379 sdR-b1-00014593.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.33 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

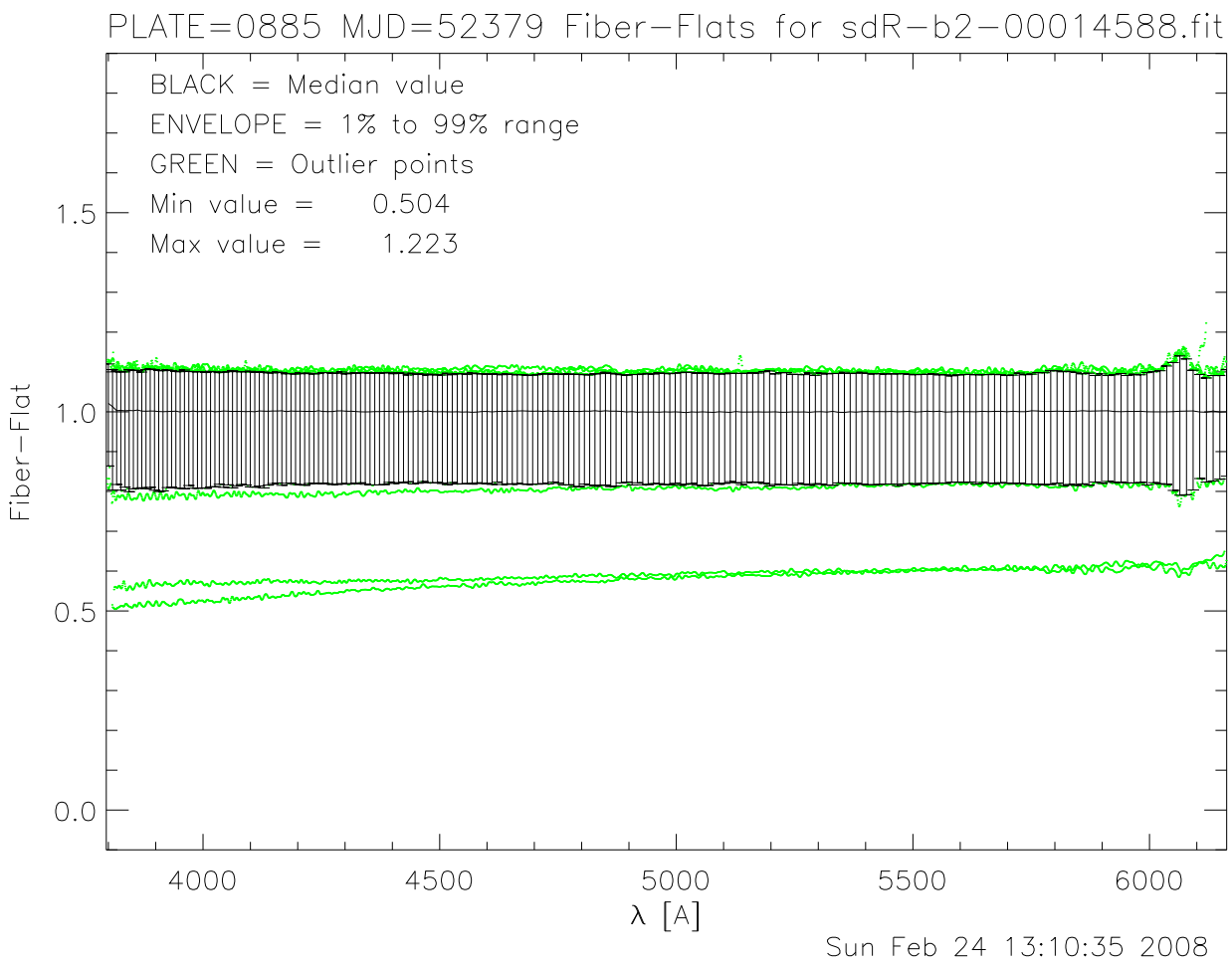

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

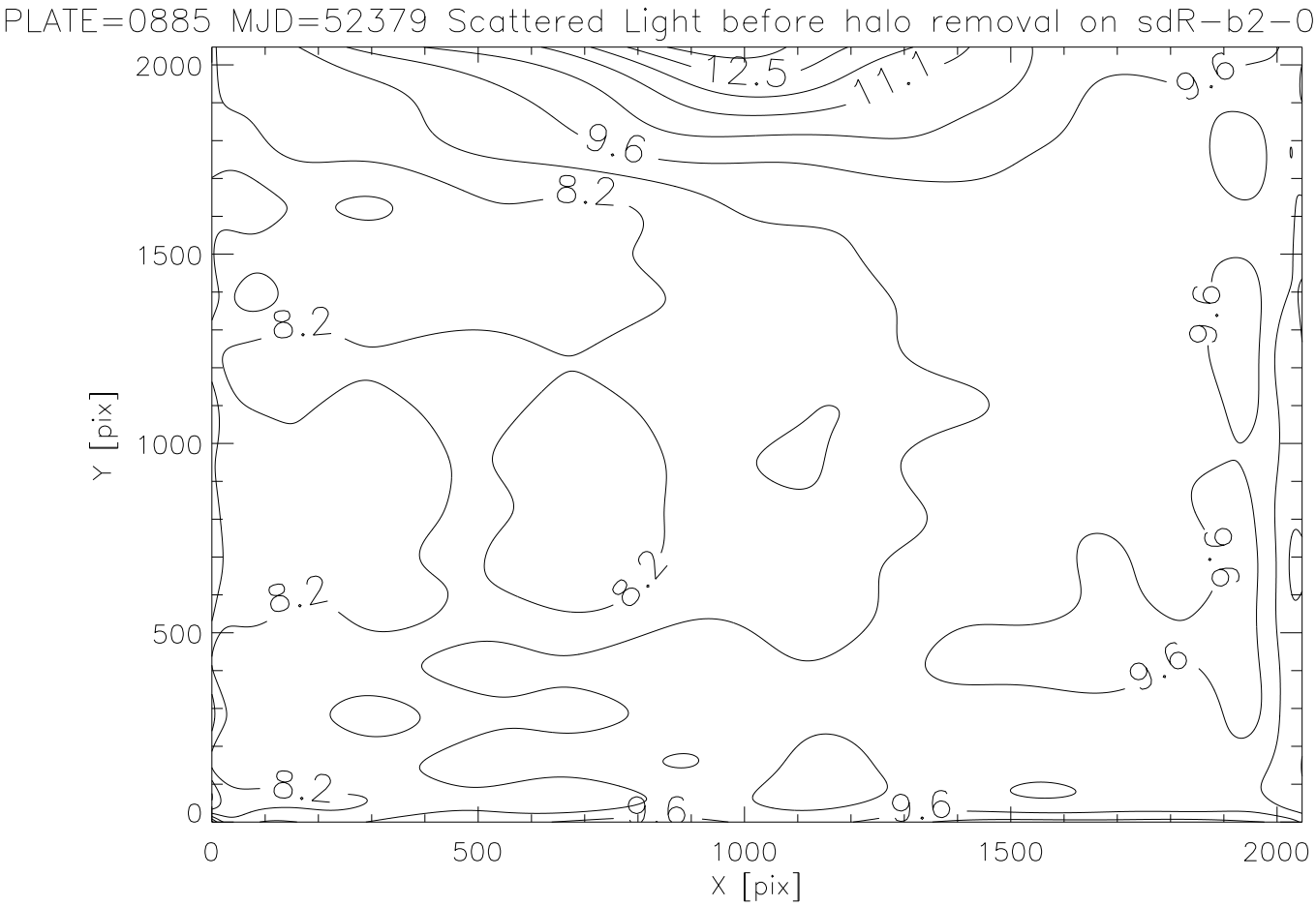

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

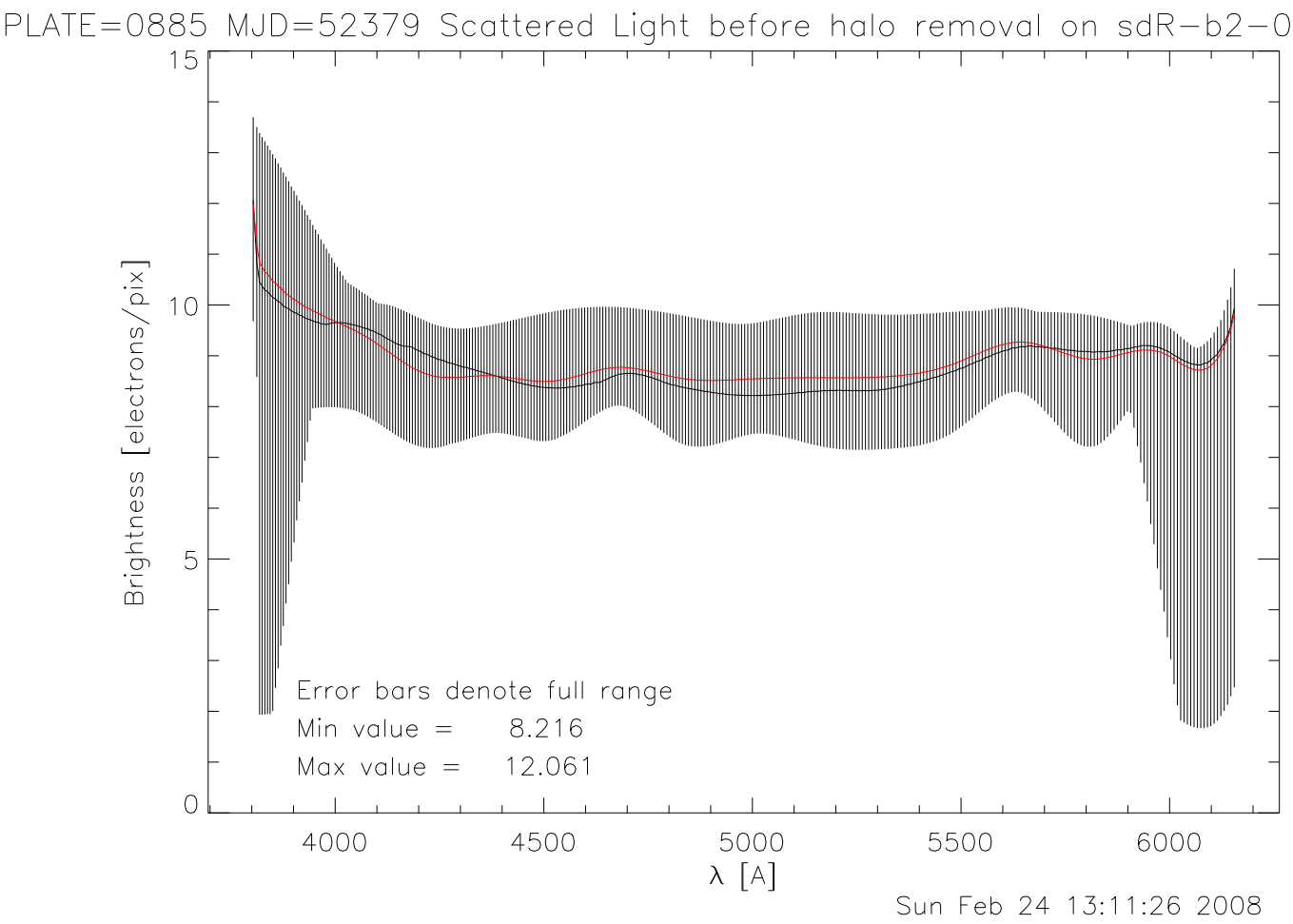

PLATE=0885 MJD=52379 flat extraction chi^2 for sdR−b2−00014588.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

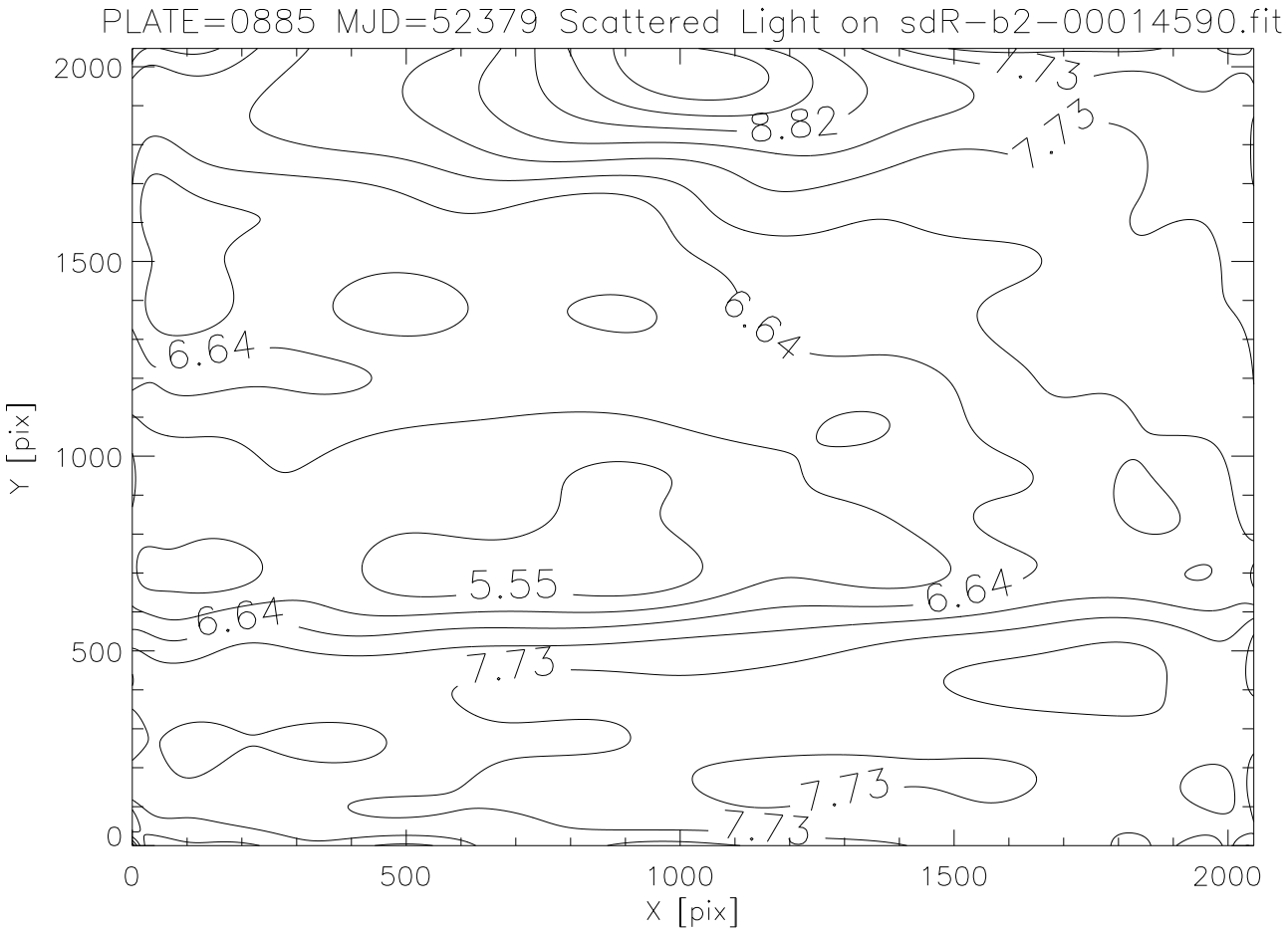

PLATE=0885 MJD=52379 Superflat sdR-b2-00014588.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

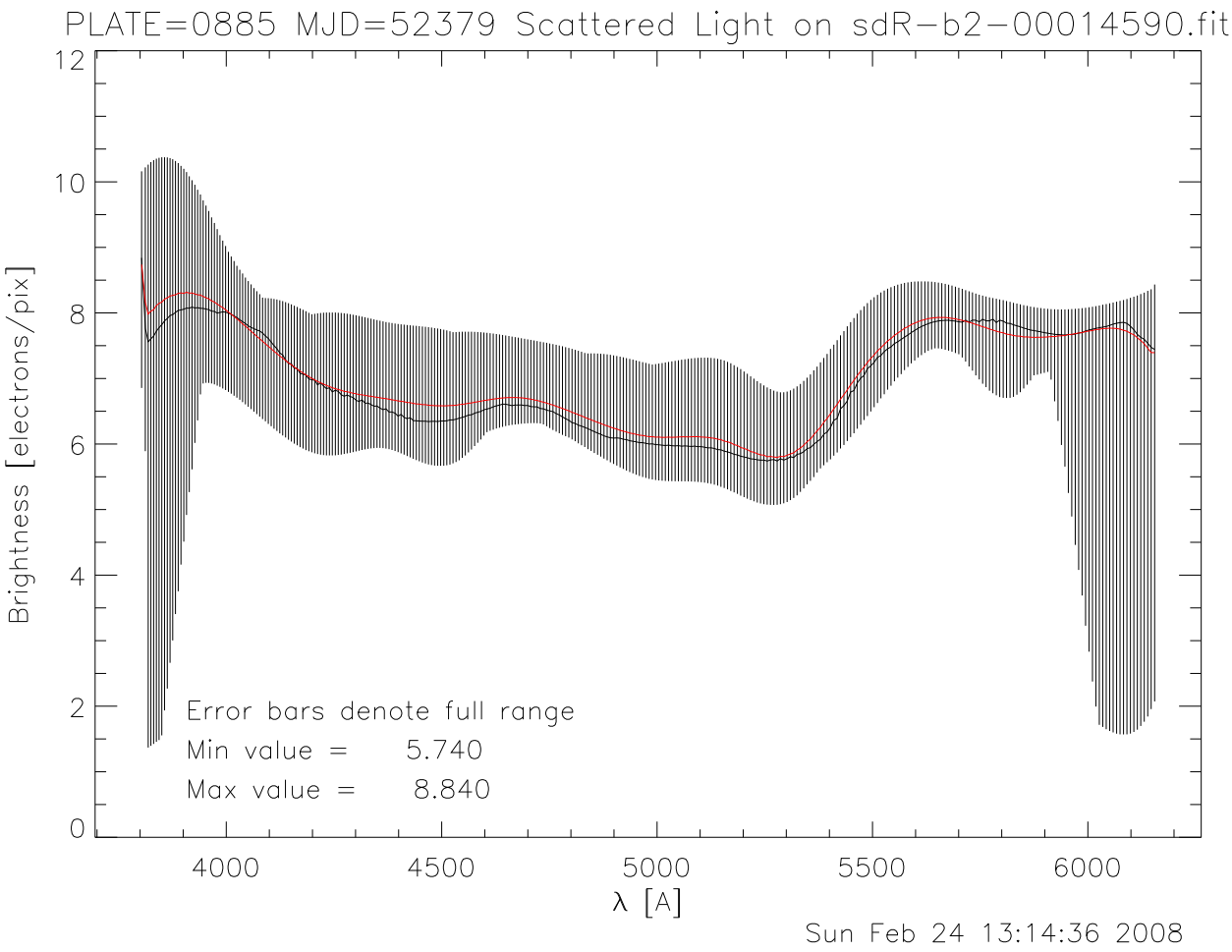

PLATE=0885 MJD=52379 Arcline Fit for sdR-b2-00014589.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:10:25 2008

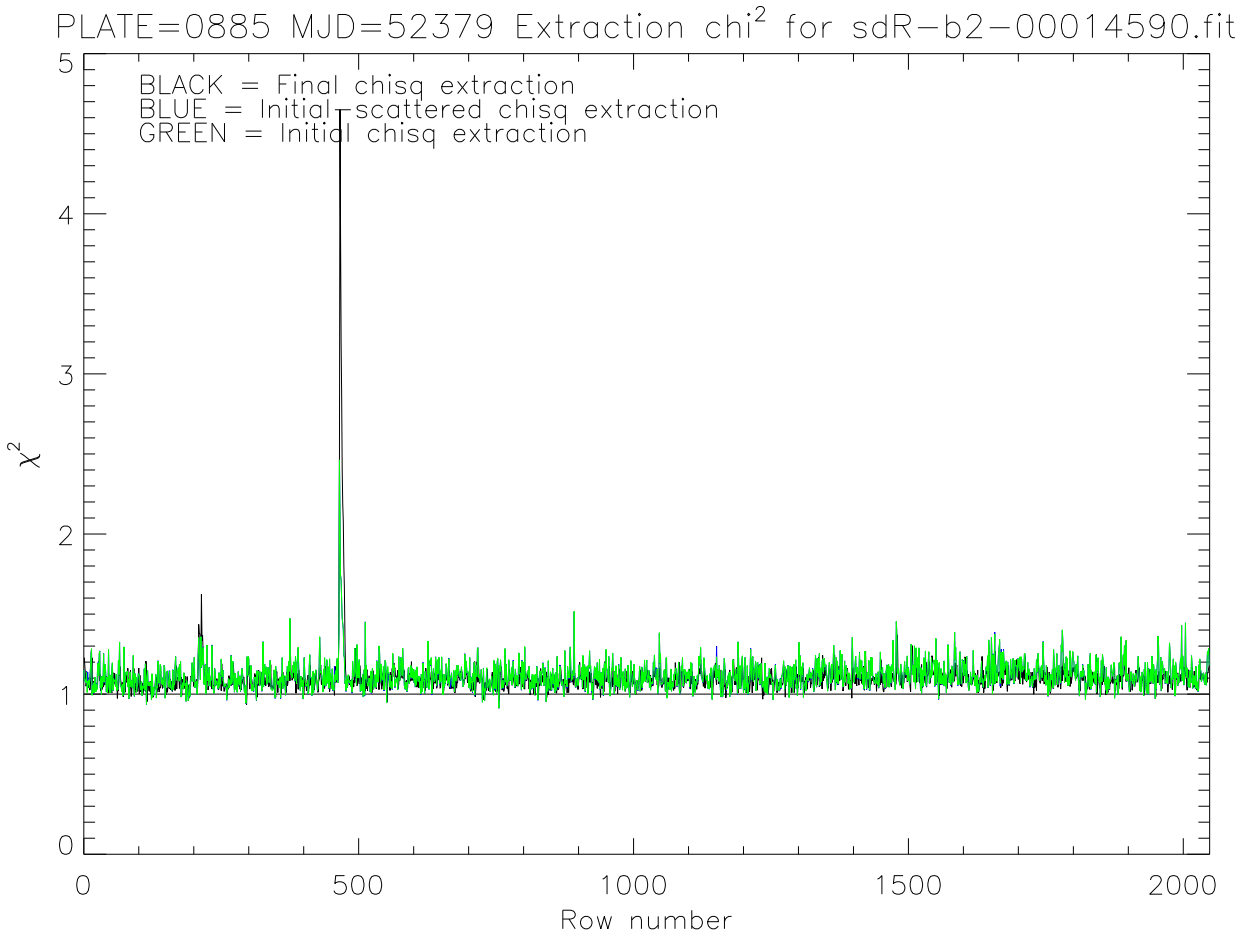

PLATE=0885 MJD=52379 Fiber-Flats for sdR-b2-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.504
Max value = 1.223
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:10:35 2008

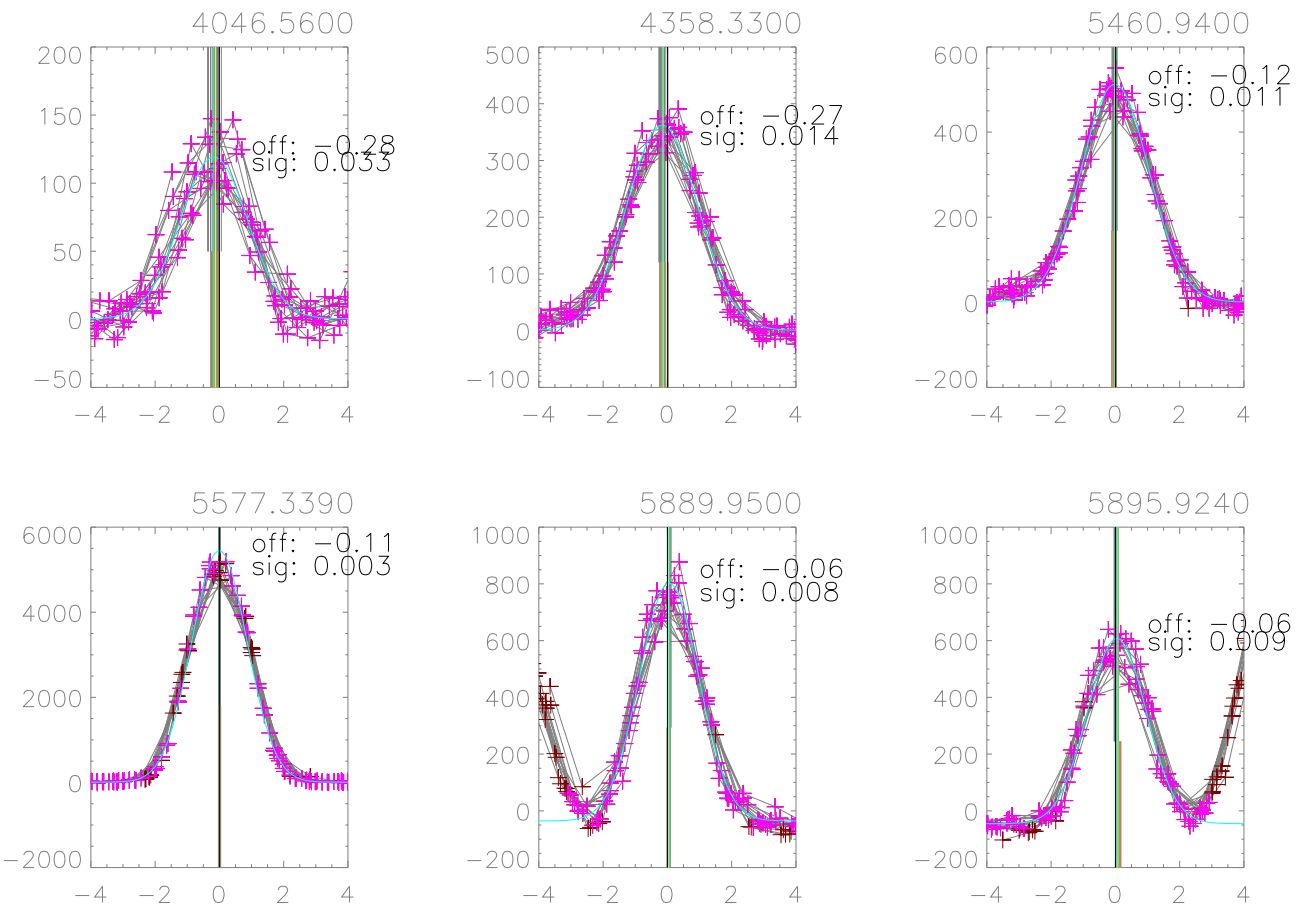

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b2-00014590.f
12.5
11.1
9.6
9.6
8.2
8.2
9.6
8.2
9.6
8.2
9.6
8.2
9.6
9.6
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

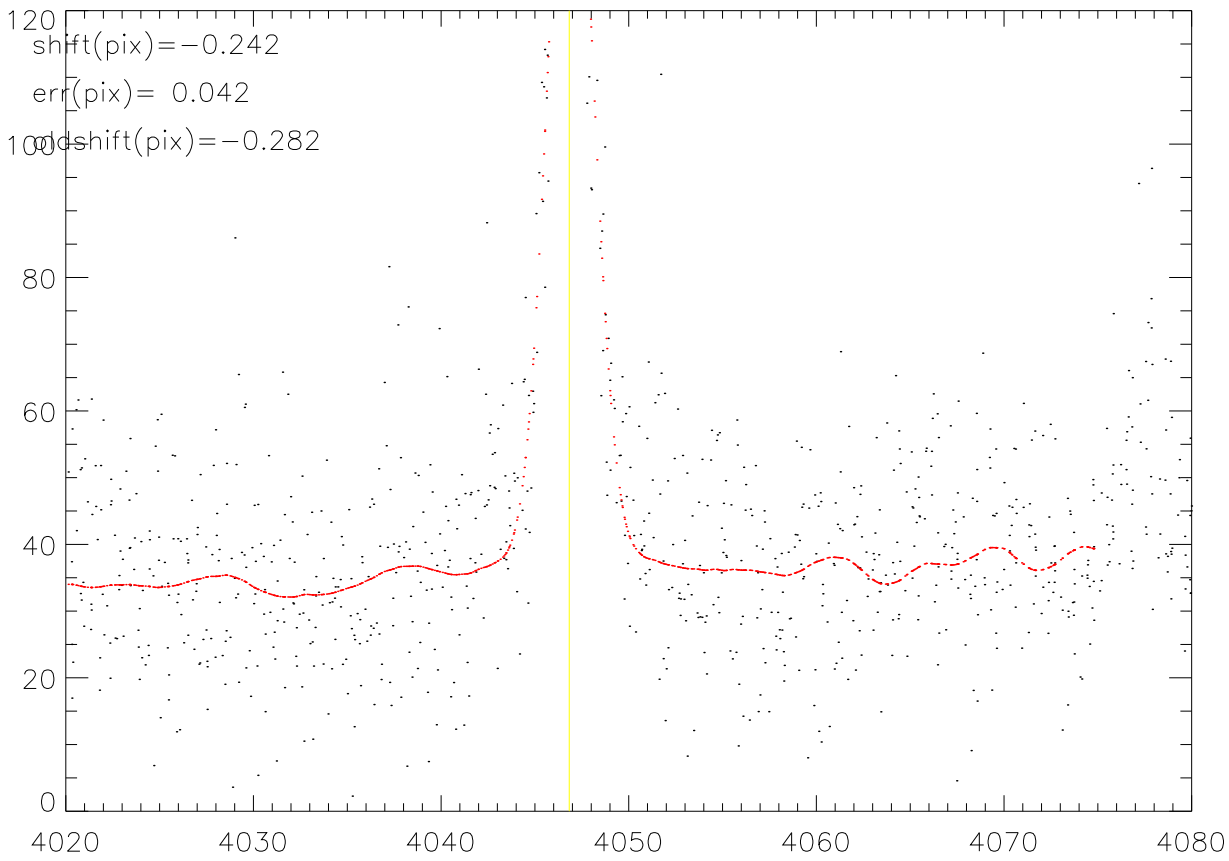

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b2-00014590.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.216
Max value = 12.061
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:11:26 2008

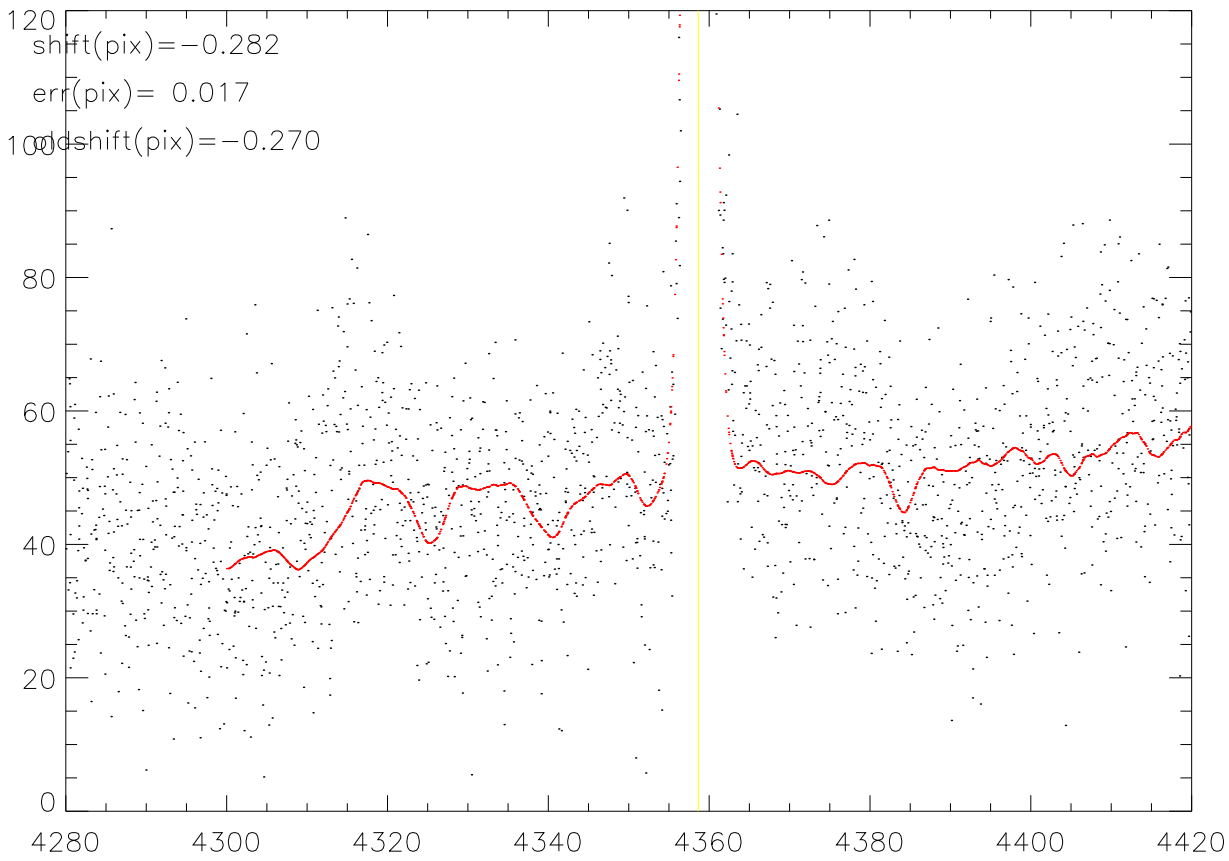

PLATE=0885 MJD=52379 Scattered Light on sdR-b2-00014590.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.82
7.73
6.64
5.55

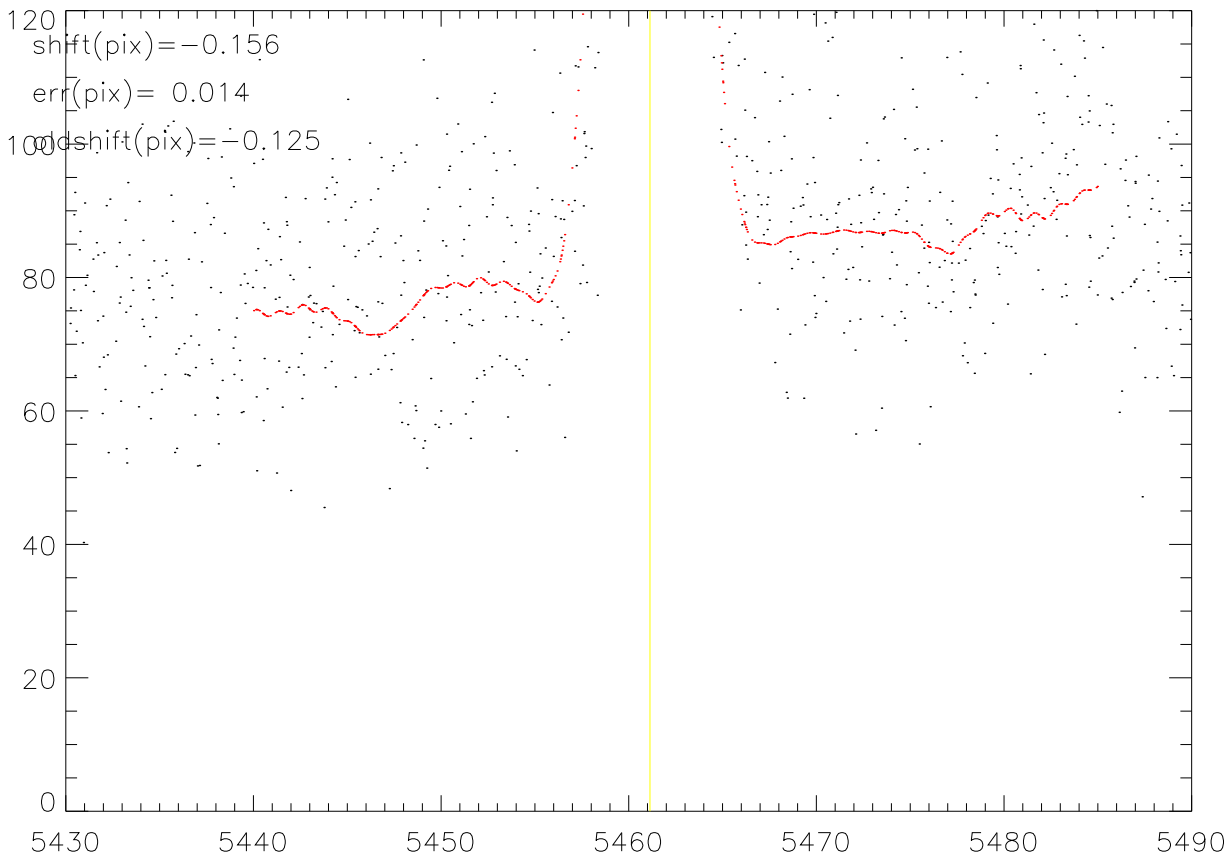

PLATE=0885 MJD=52379 Scattered Light on sdR-b2-00014590.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.740
Max value = 8.840
Sun Feb 24 13:14:36 2008

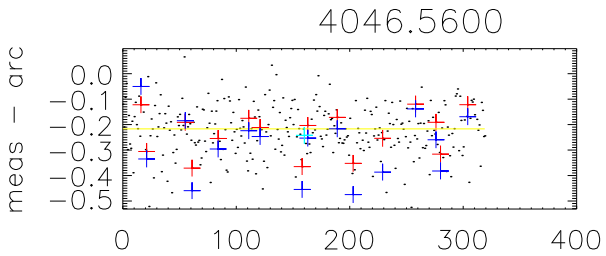

PLATE=0885 MJD=52379 Extraction chi^2 for sdR-b2-00014590.fit
BLACK = Final chisq extraction
BLUE = Initial scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

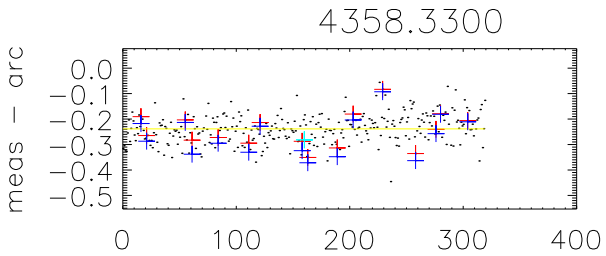

4046.5600
off: −0.28
sig: 0.033
4358.3300
off: −0.27
sig: 0.014
5460.9400
off: −0.12
sig: 0.011
5577.3390
off: −0.11
sig: 0.003
5889.9500
off: −0.06
sig: 0.008
5895.9240
off: −0.06
sig: 0.009

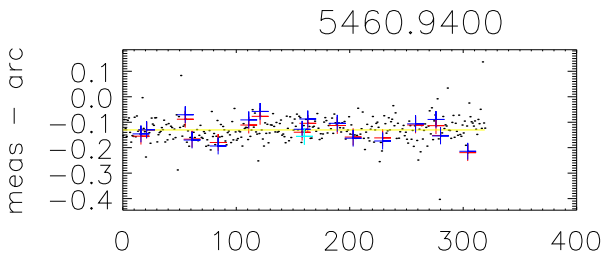

shift(pix)=−0.242
err(pix)= 0.042
oldshift(pix)=−0.282
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

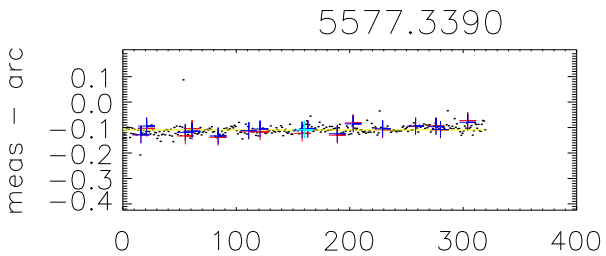

shift(pix)=−0.282
err(pix)= 0.017
oldshift(pix)=−0.270
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

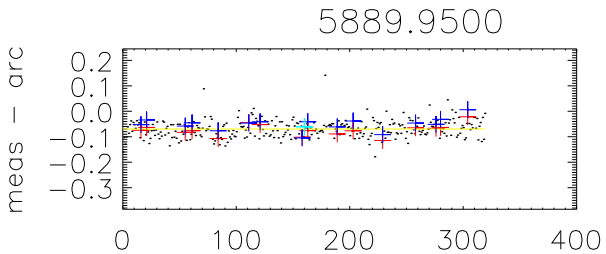

shift(pix)=−0.156
err(pix)= 0.014
oldshift(pix)=−0.125
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

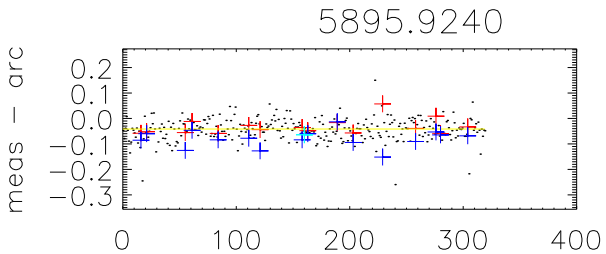

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

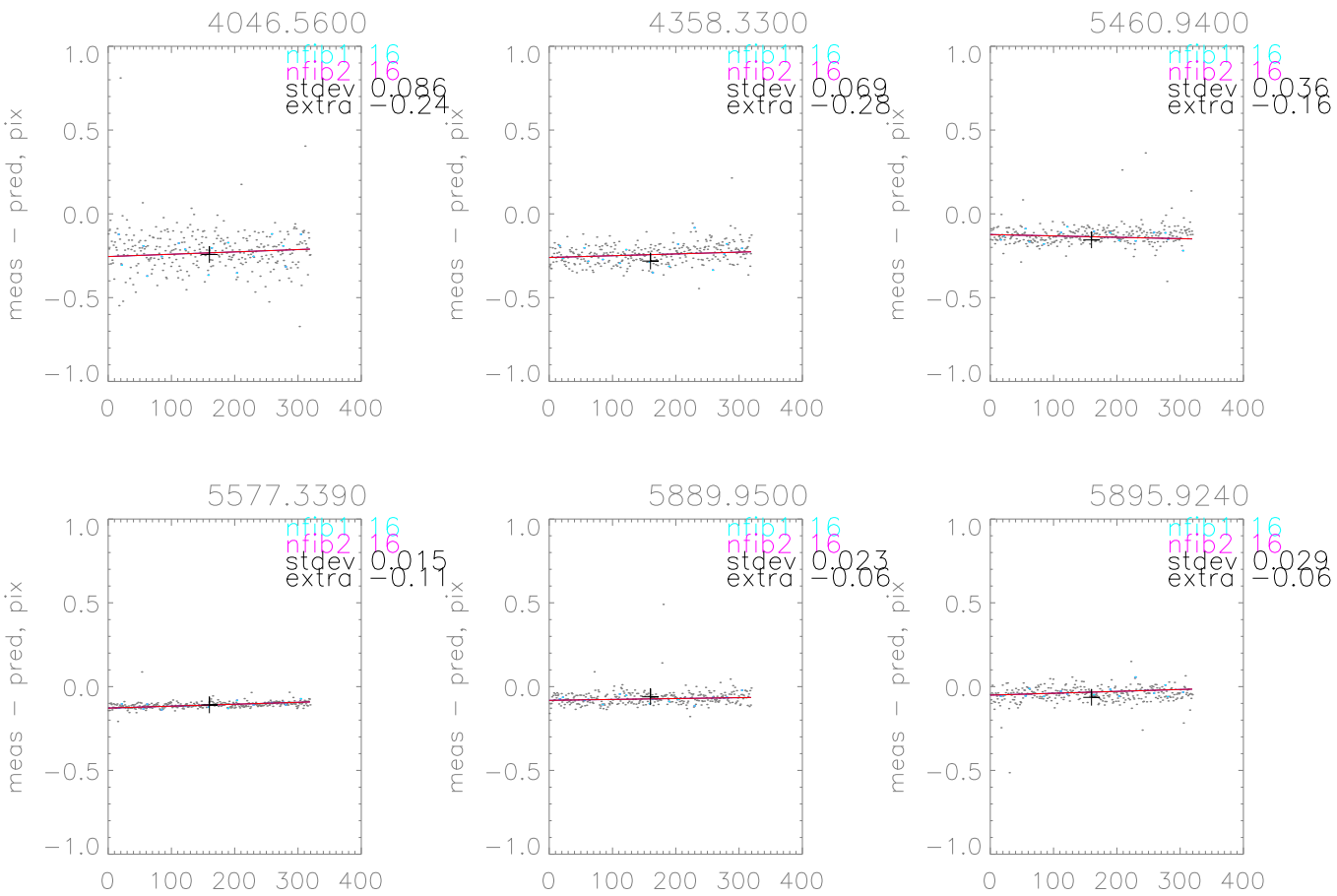

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

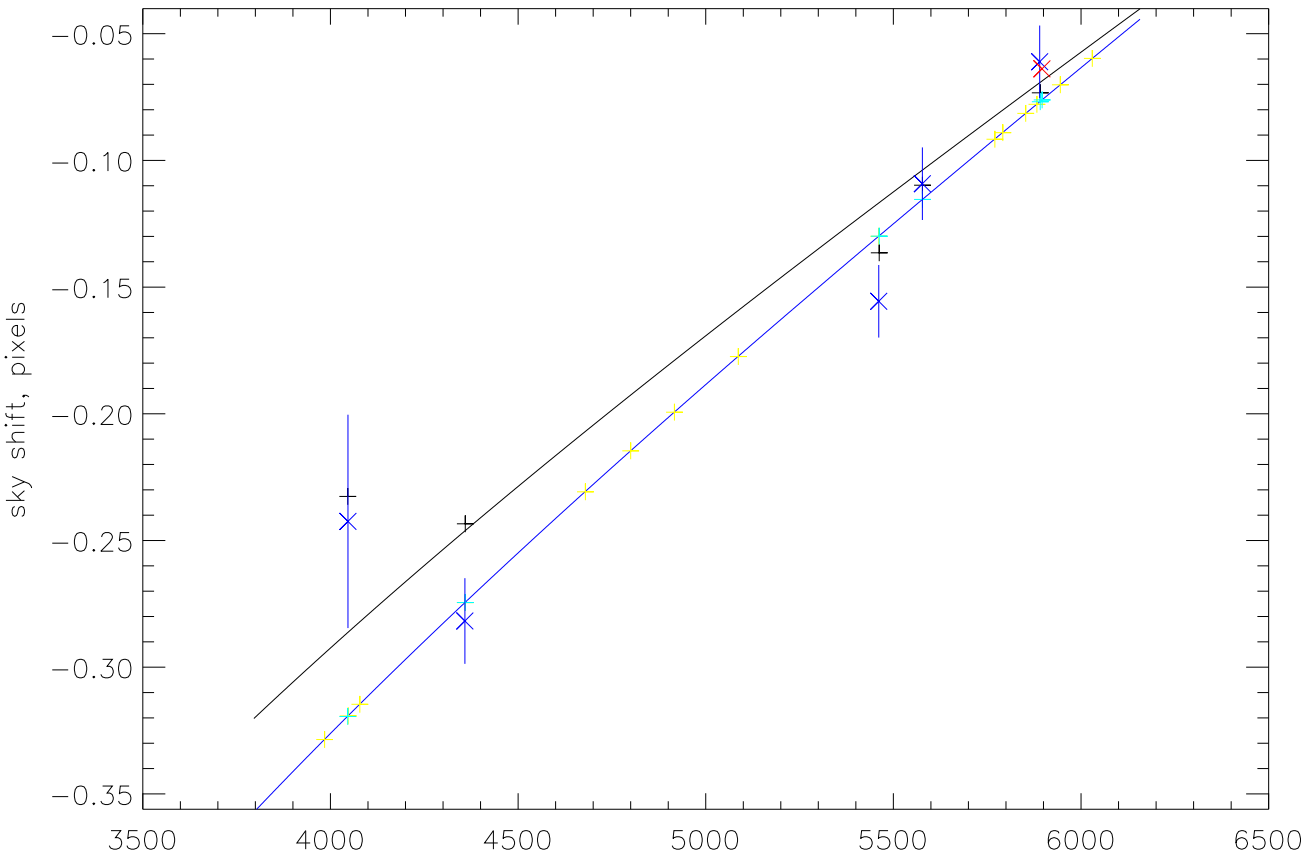

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

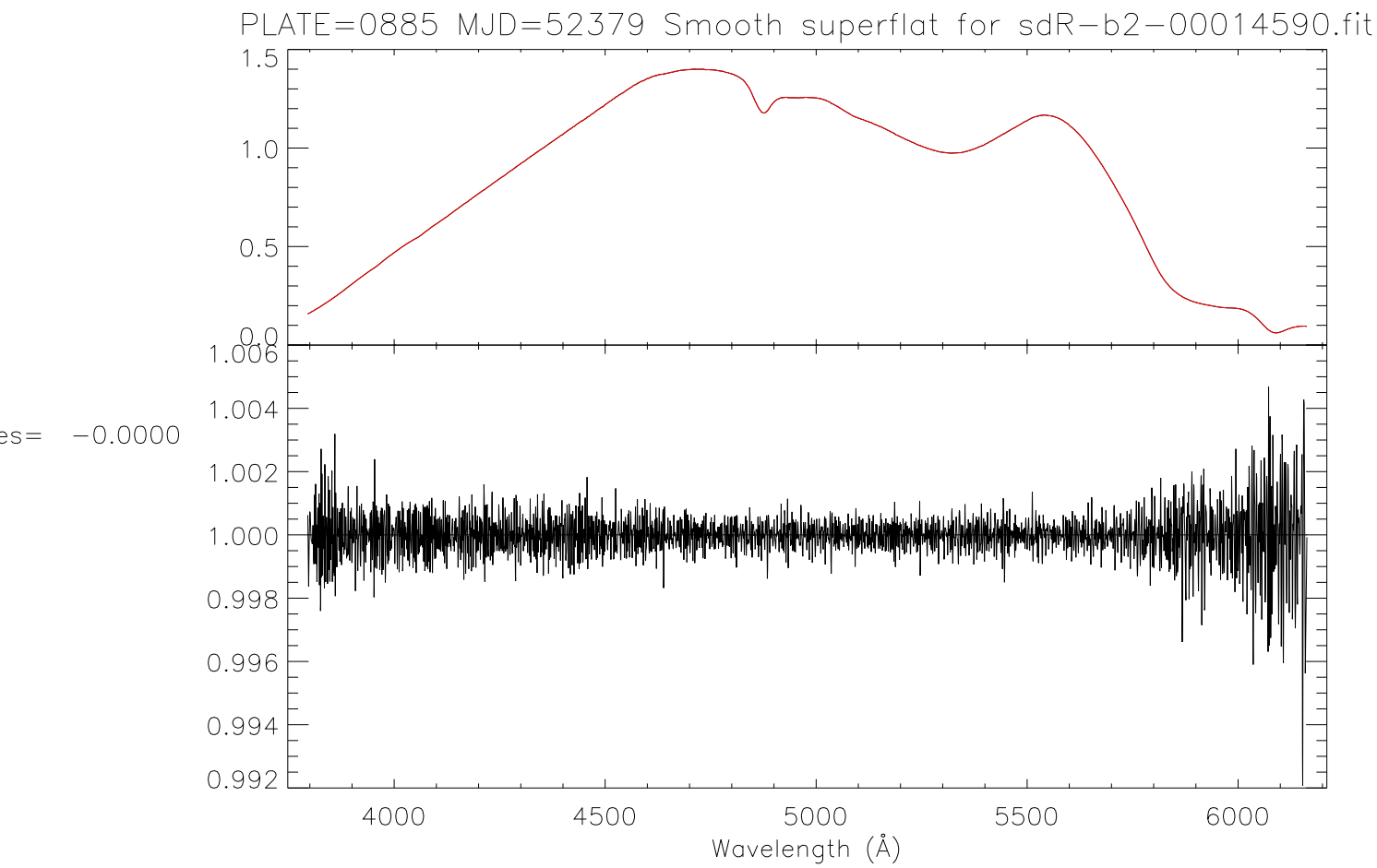

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

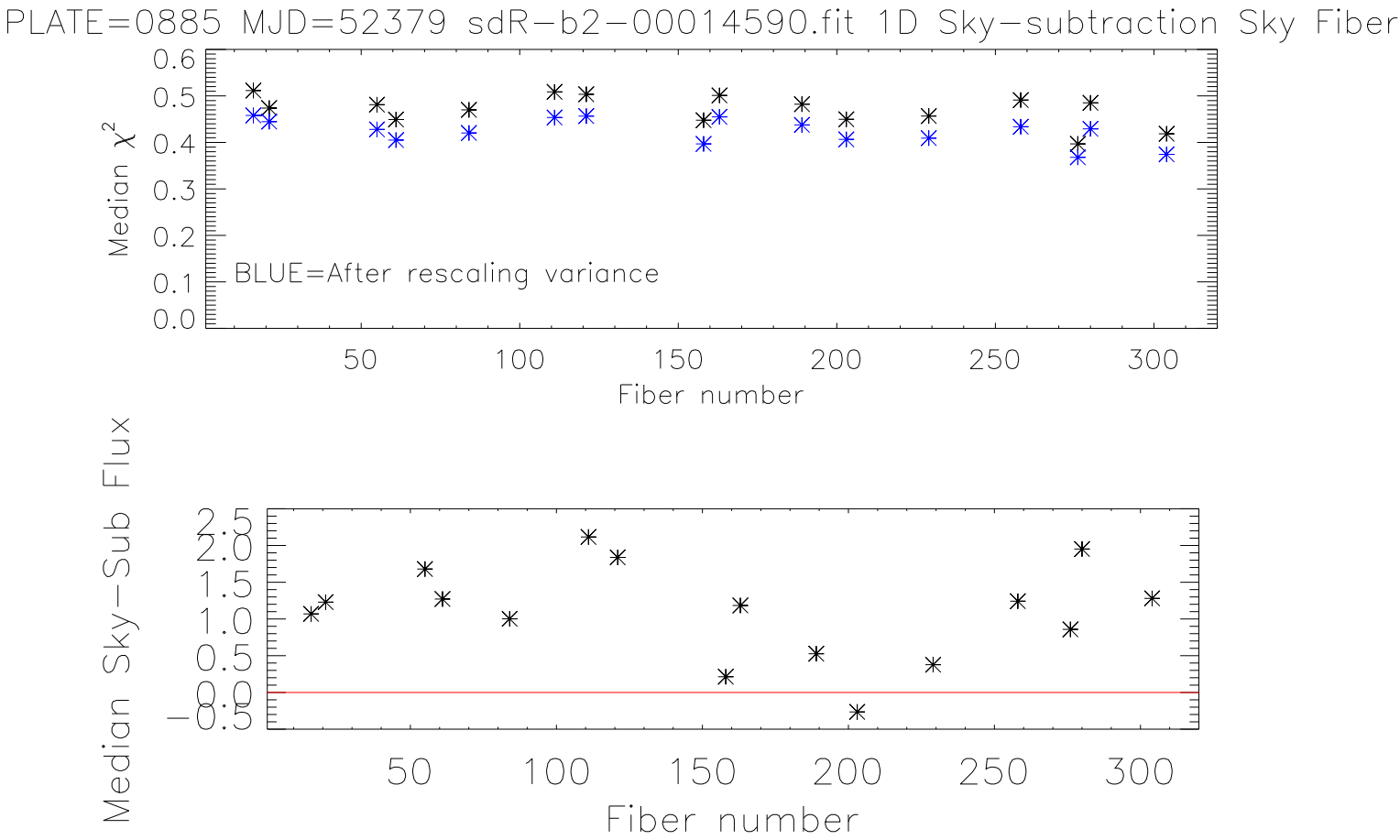

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

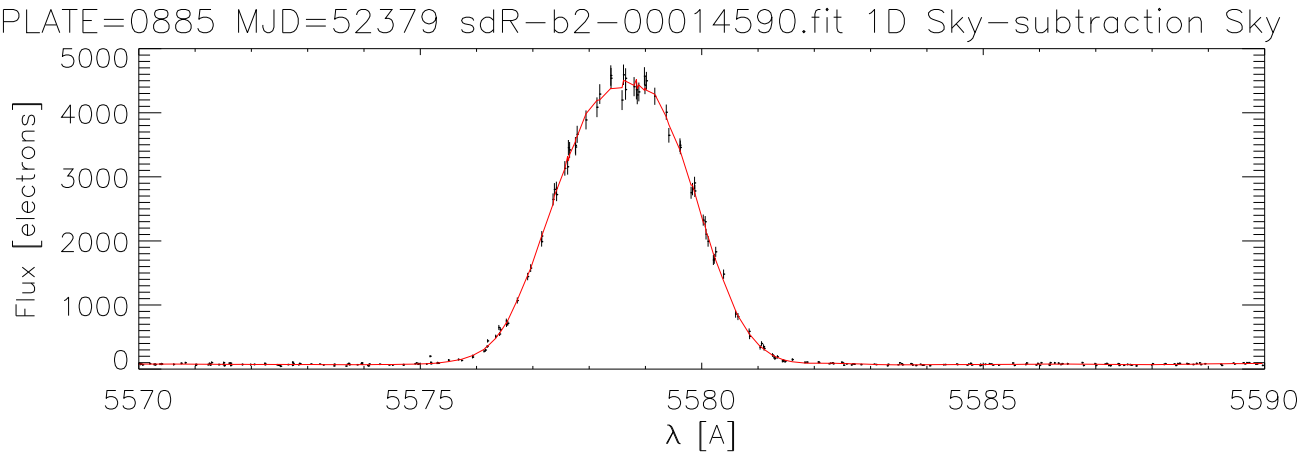

4046.5600
nfib1 16
nfib2 16
stdev 0.086
extra −0.24
4358.3300
nfib1 16
nfib2 16
stdev 0.069
extra −0.28
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra −0.16
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.11
5889.9500
nfib1 16
nfib2 16
stdev 0.023
extra −0.06
5895.9240
nfib1 16
nfib2 16
stdev 0.029
extra −0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

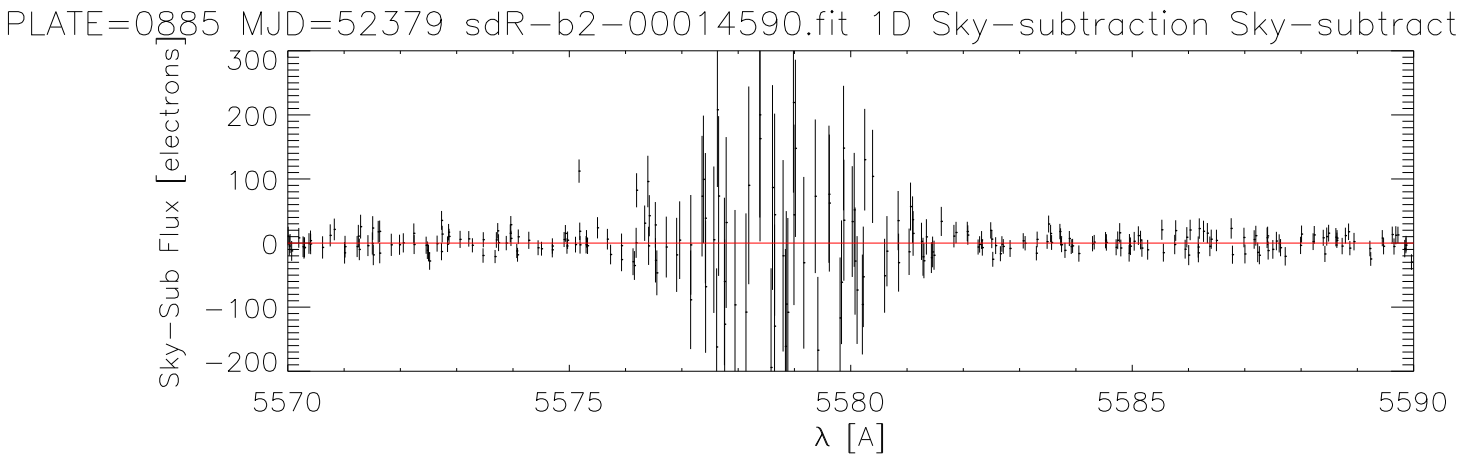

−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

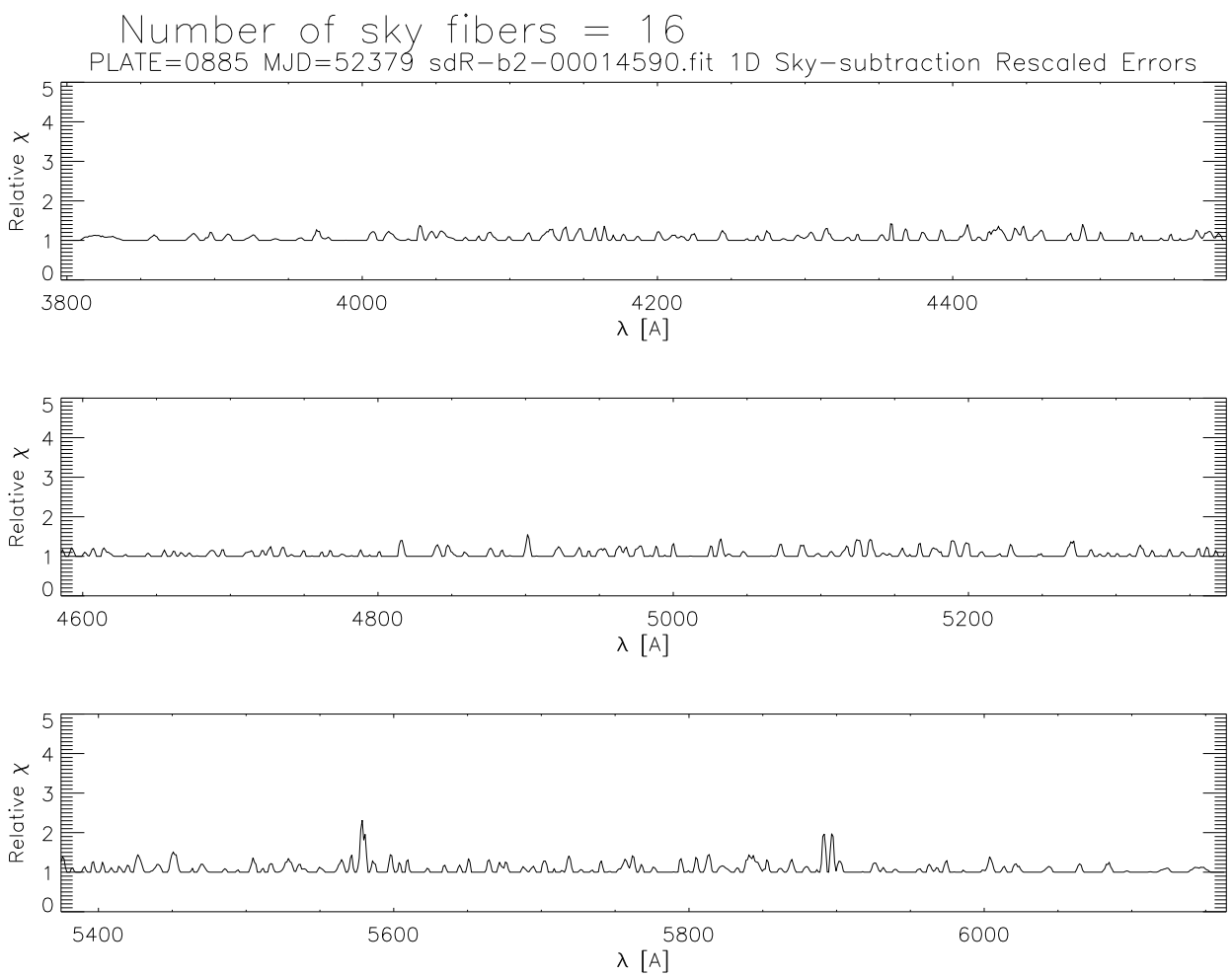

PLATE=0885 MJD=52379 Smooth superflat for sdR-b2-00014590.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

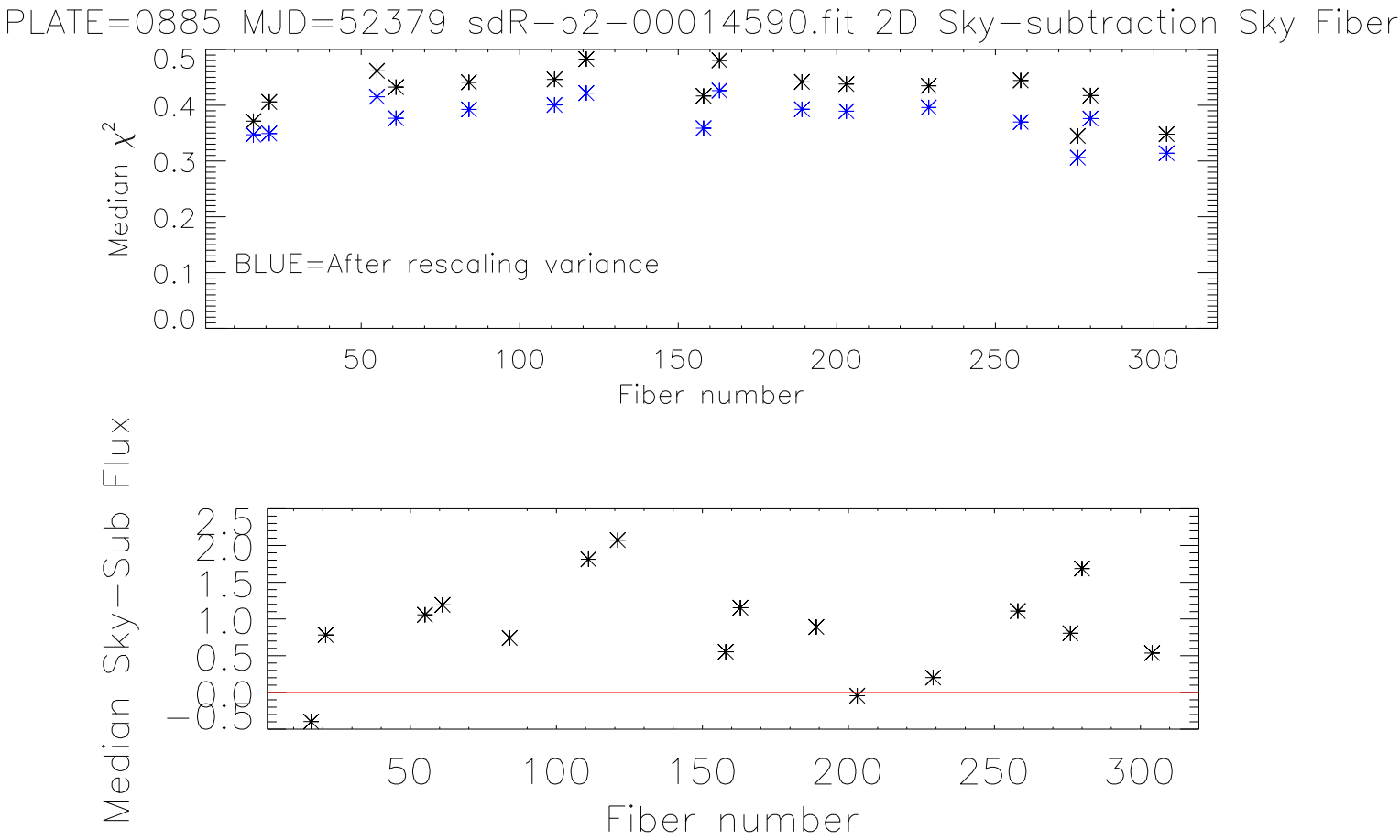
es= −0.0000

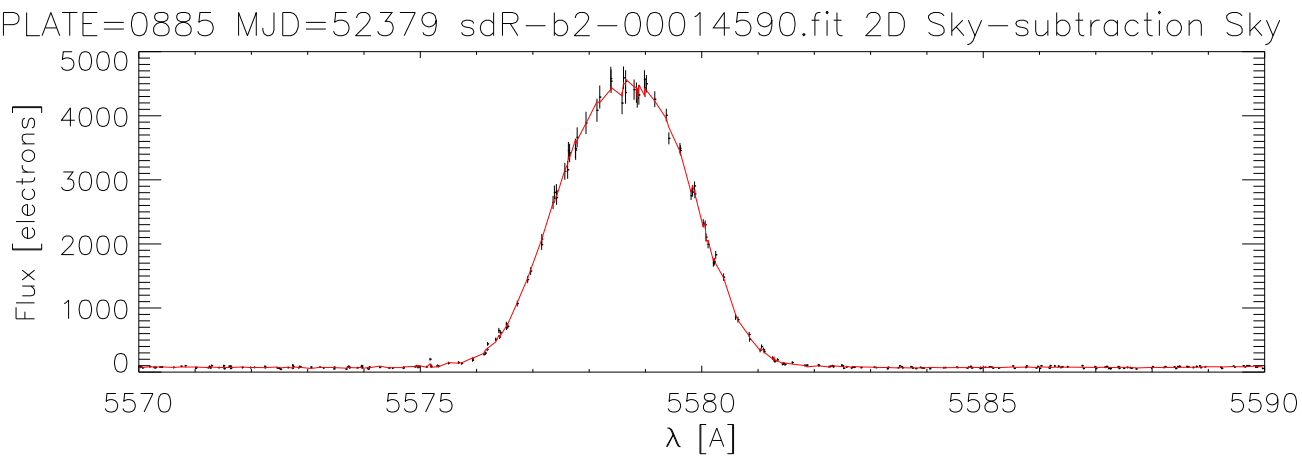

PLATE=0885 MJD=52379 sdR-b2-00014590.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

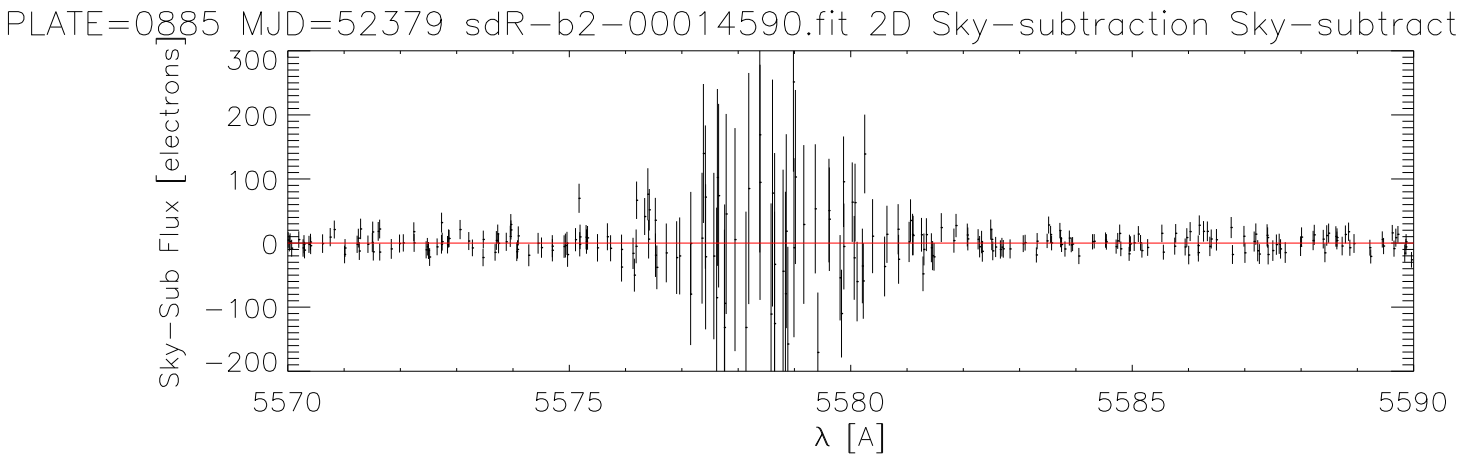

PLATE=0885 MJD=52379 sdR-b2-00014590.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

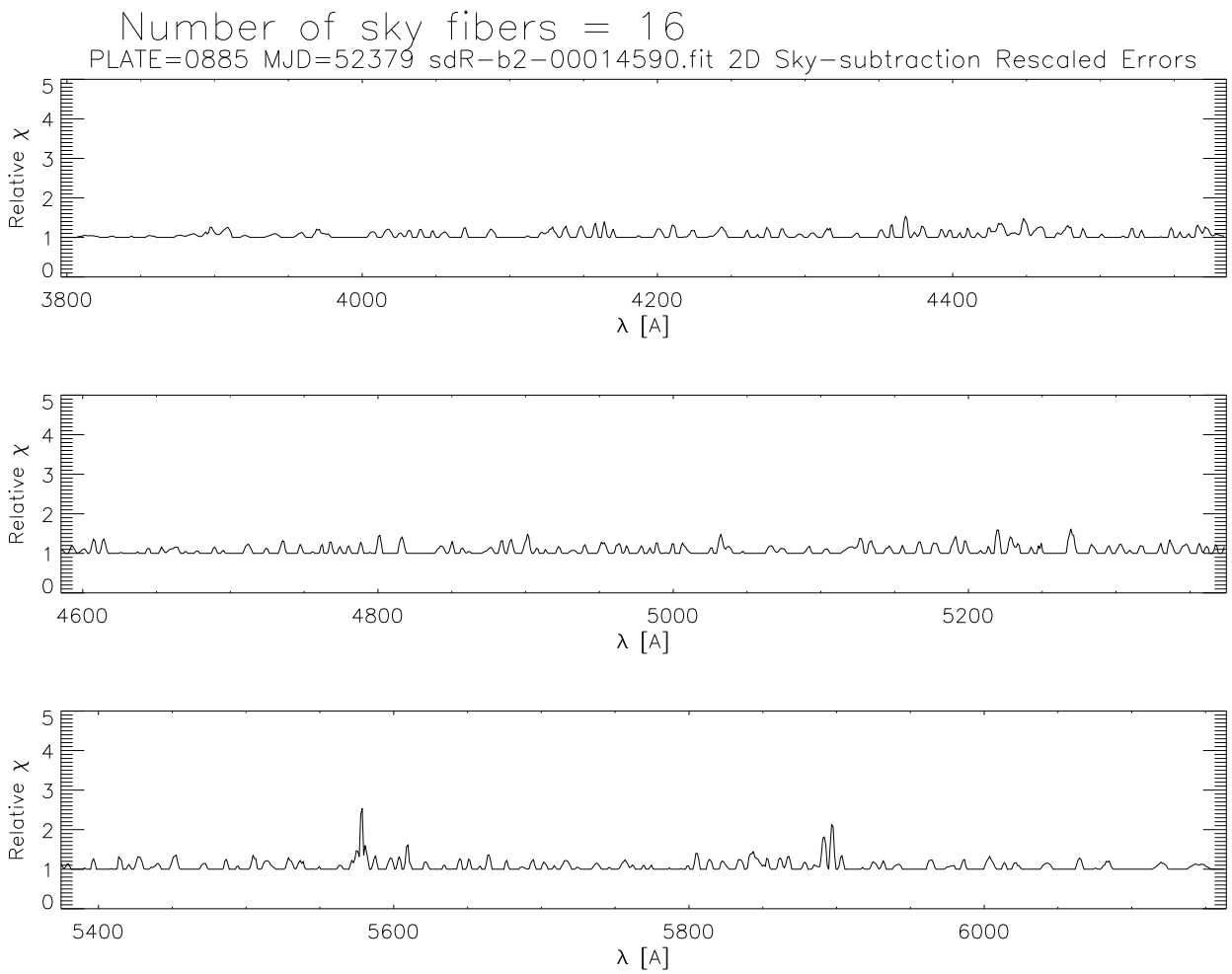

PLATE=0885 MJD=52379 sdR-b2-00014590.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

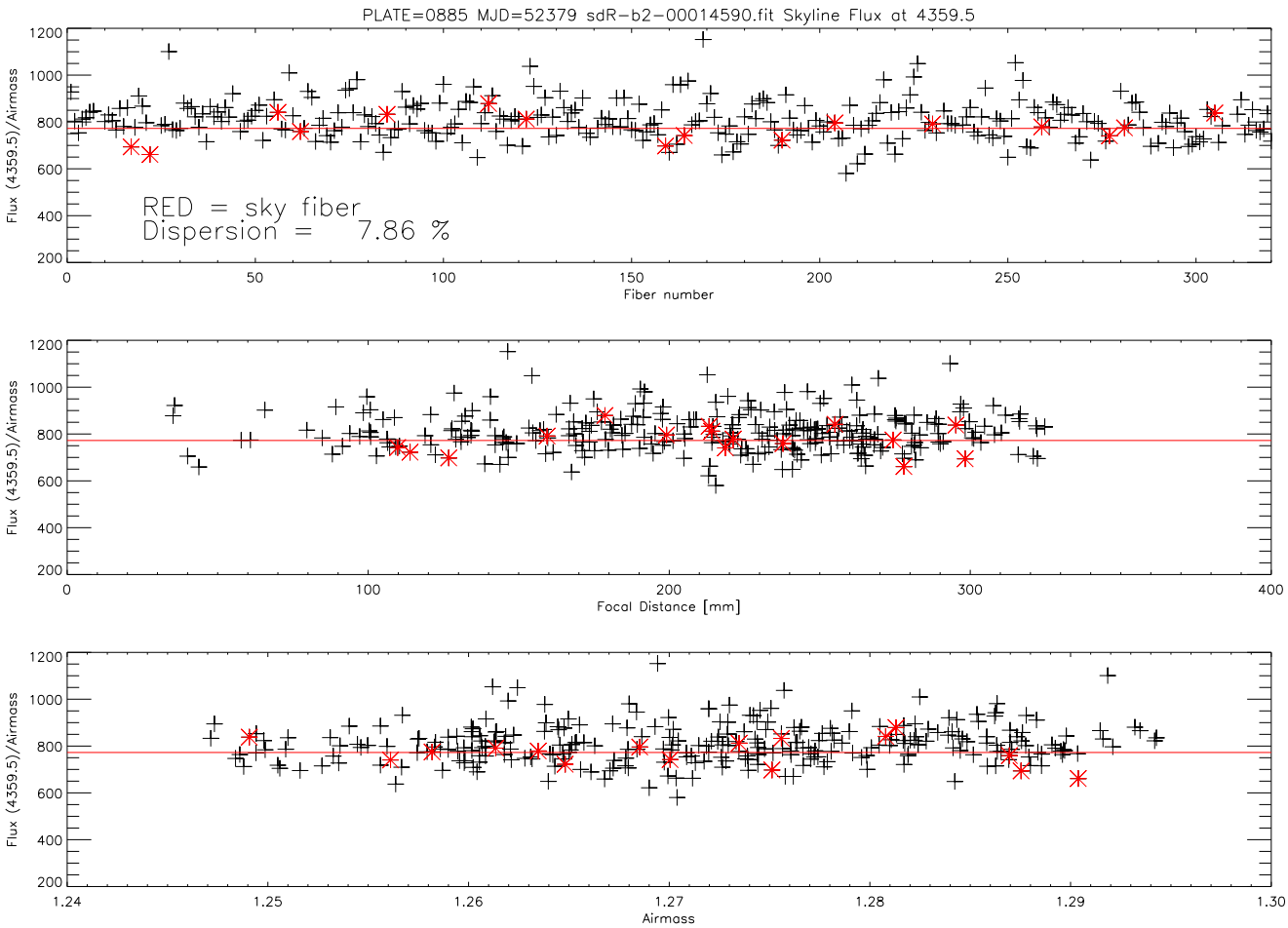

Number of sky fibers = 16
PLATE=0885 MJD=52379 sdR-b2-00014590.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

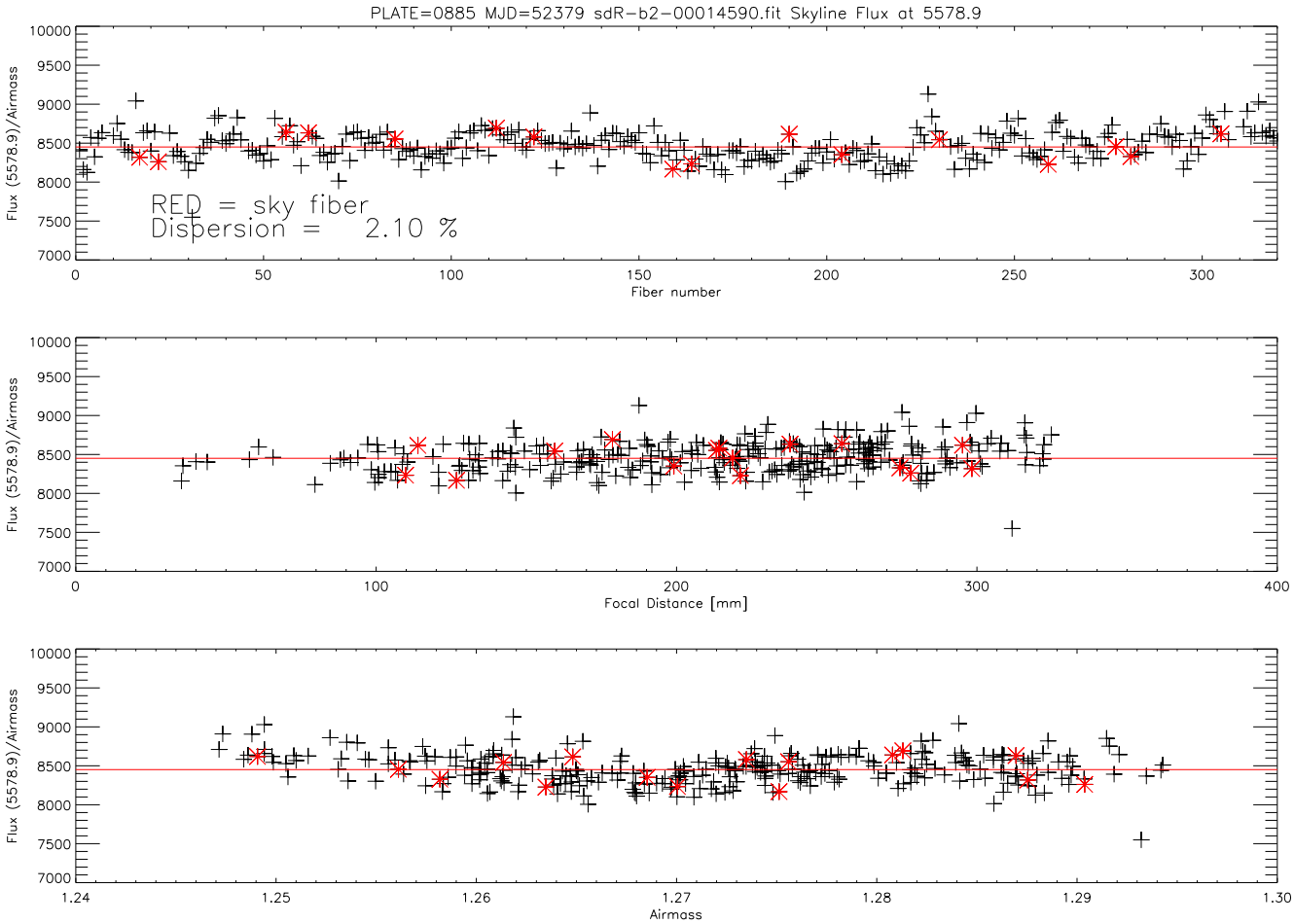

PLATE=0885 MJD=52379 sdR-b2-00014590.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

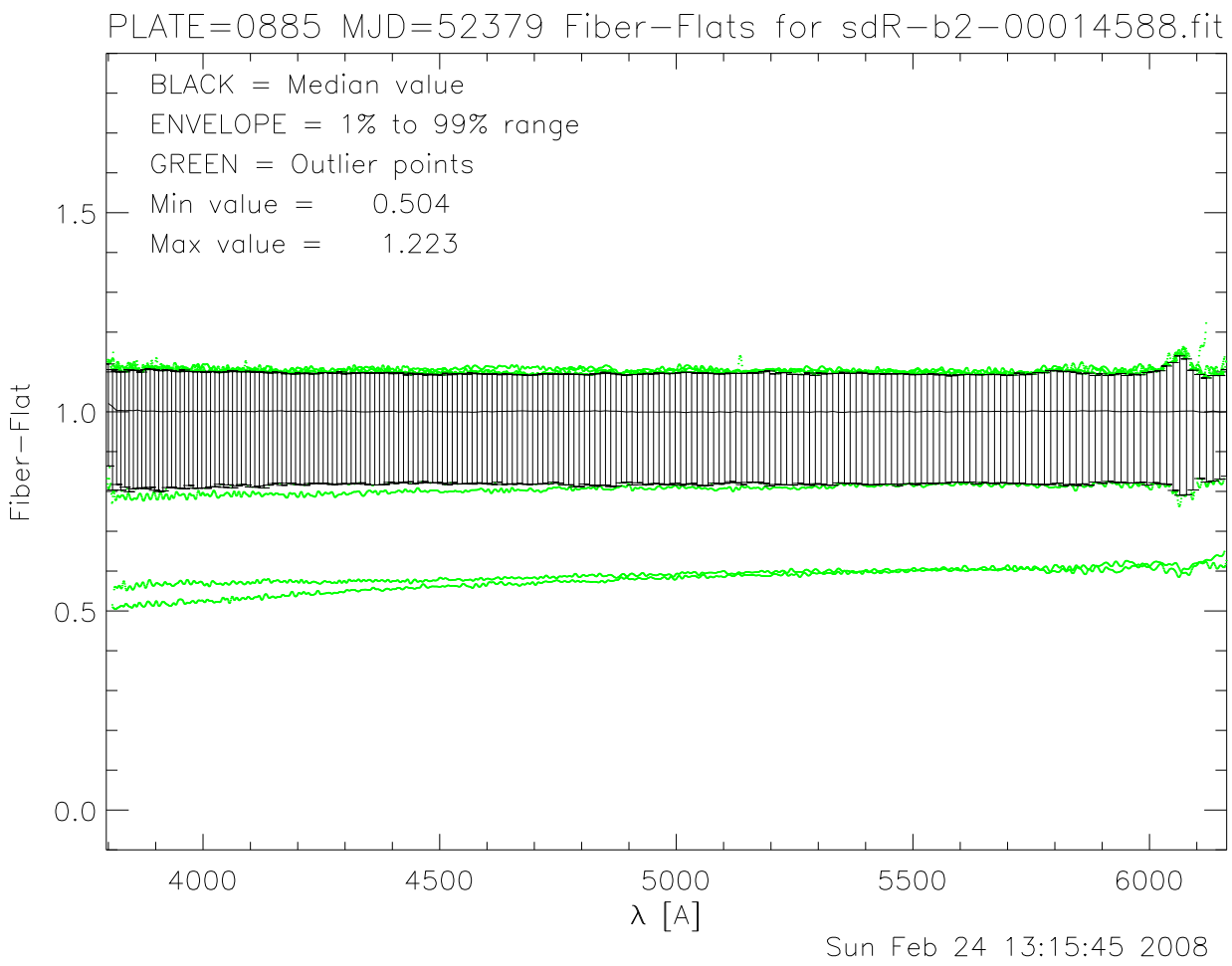

PLATE=0885 MJD=52379 sdR-b2-00014590.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

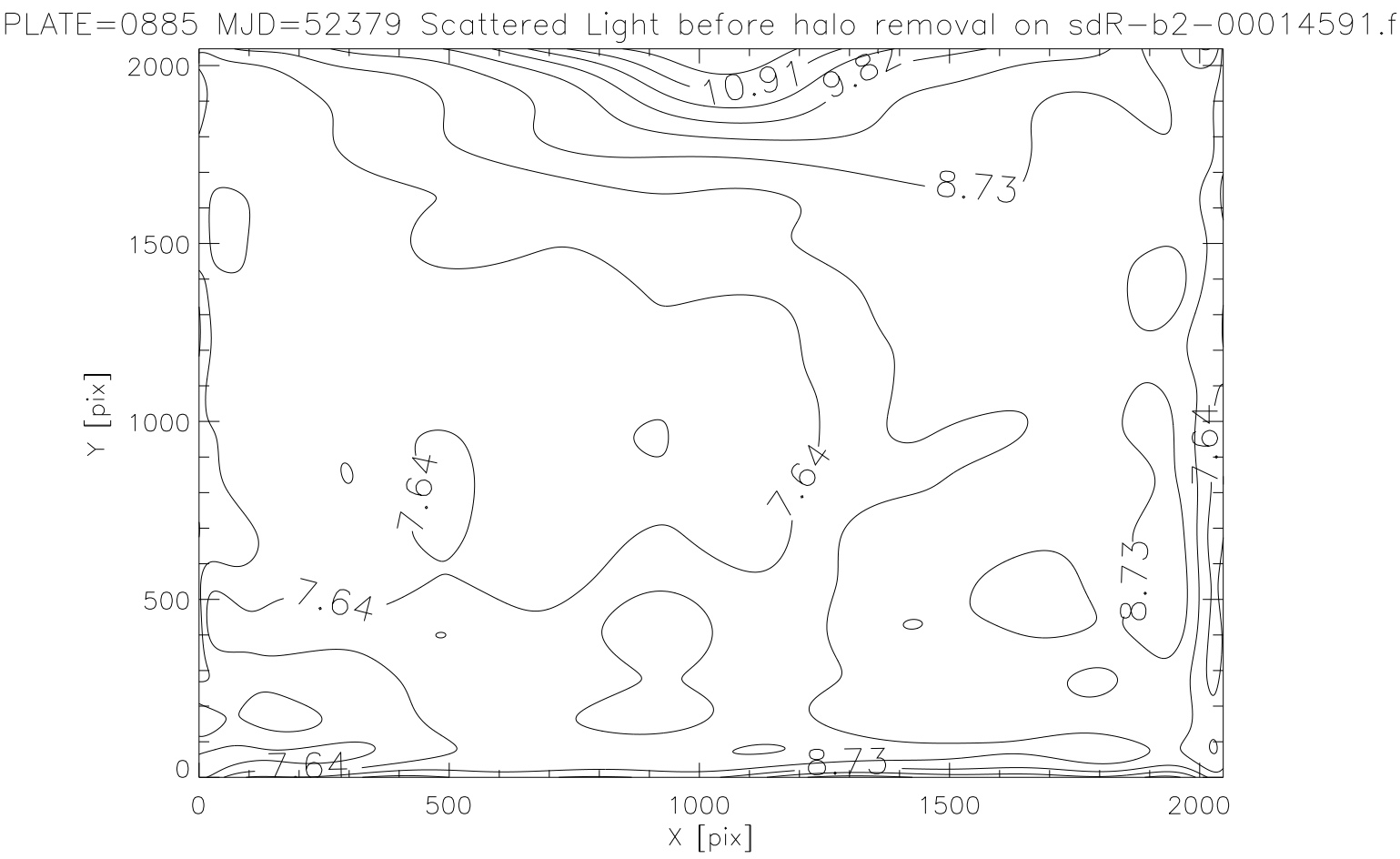

PLATE=0885 MJD=52379 sdR-b2-00014590.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

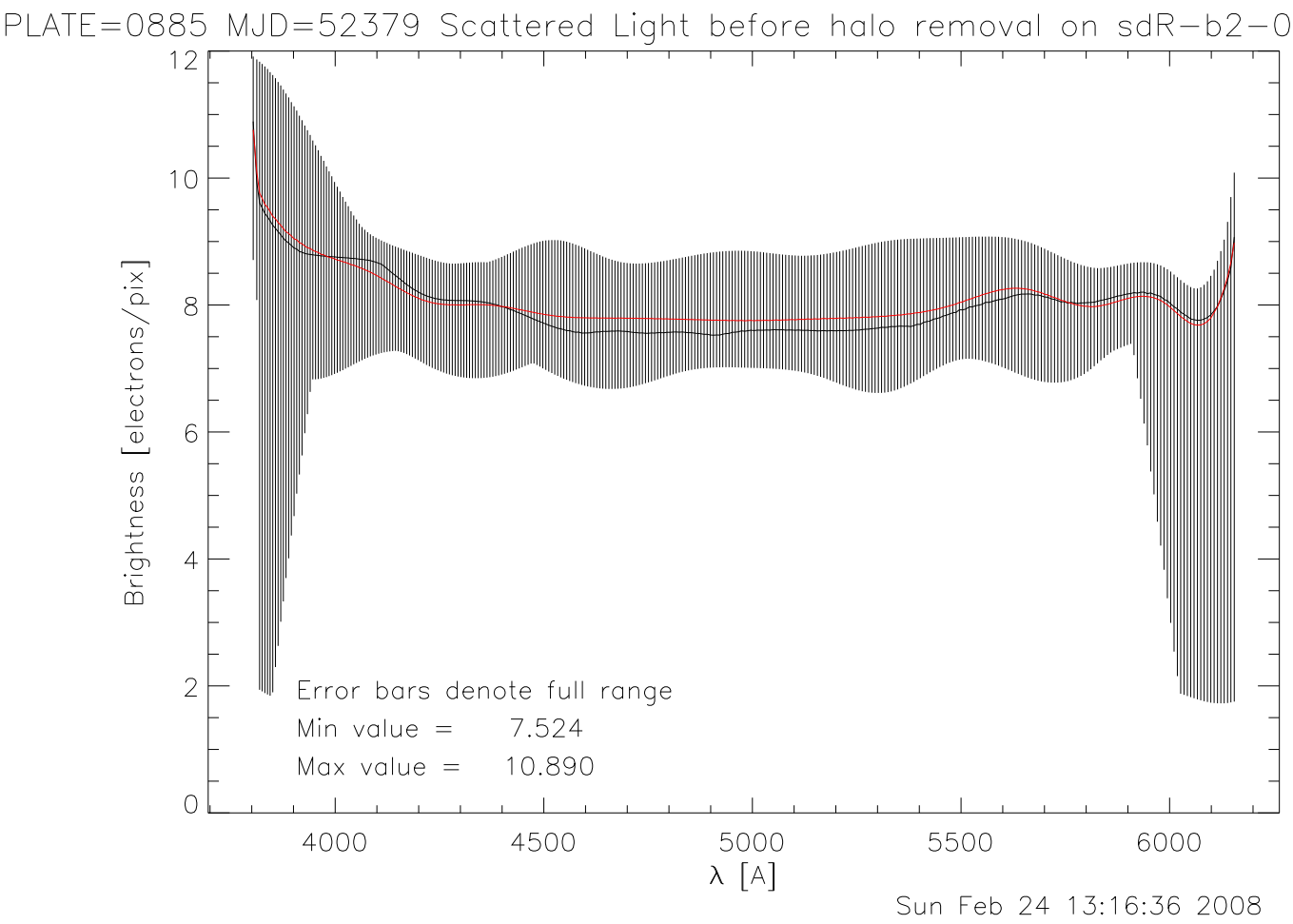

Number of sky fibers = 16
PLATE=0885 MJD=52379 sdR-b2-00014590.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

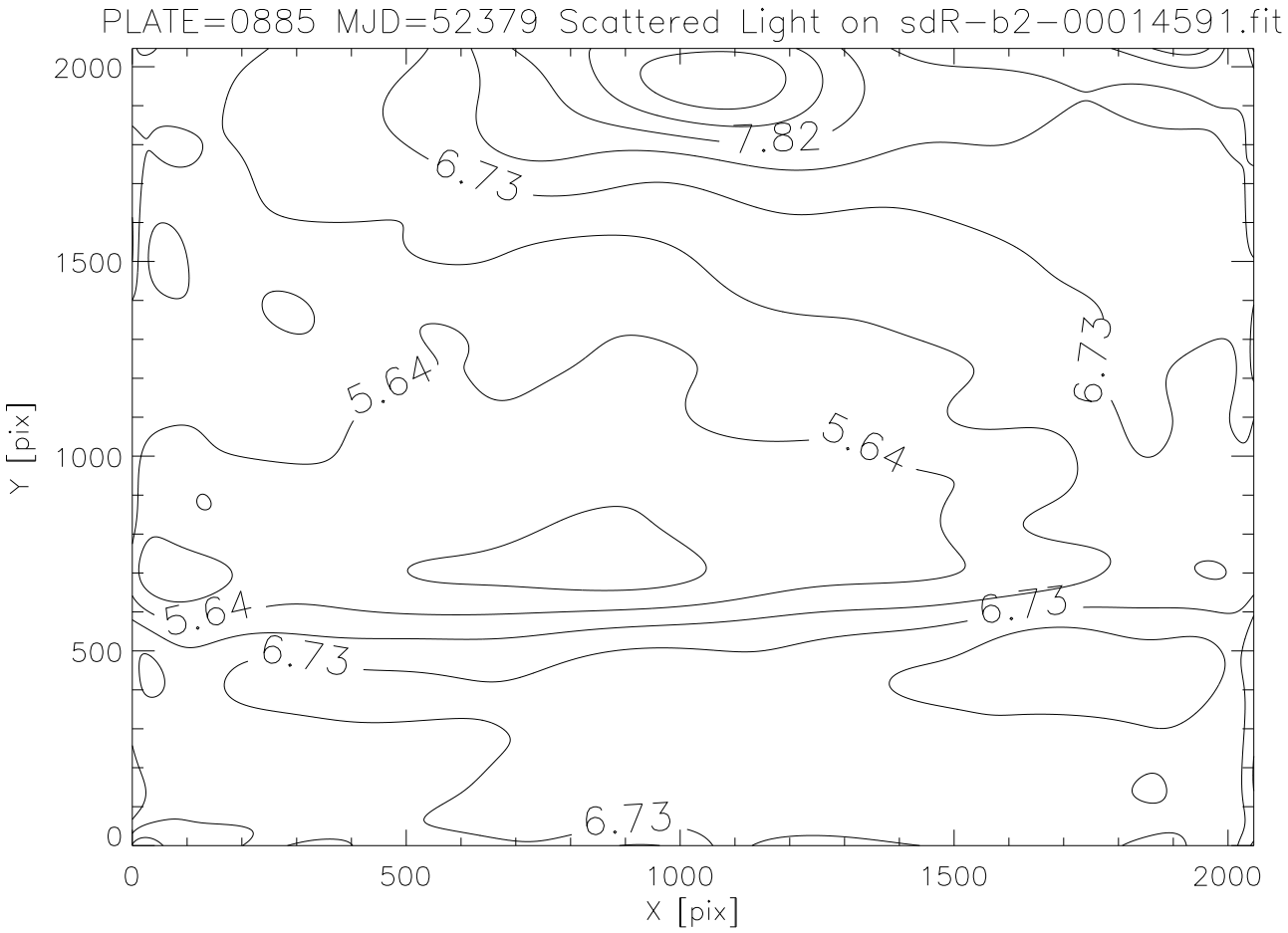

PLATE=0885 MJD=52379 sdR-b2-00014590.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.86 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

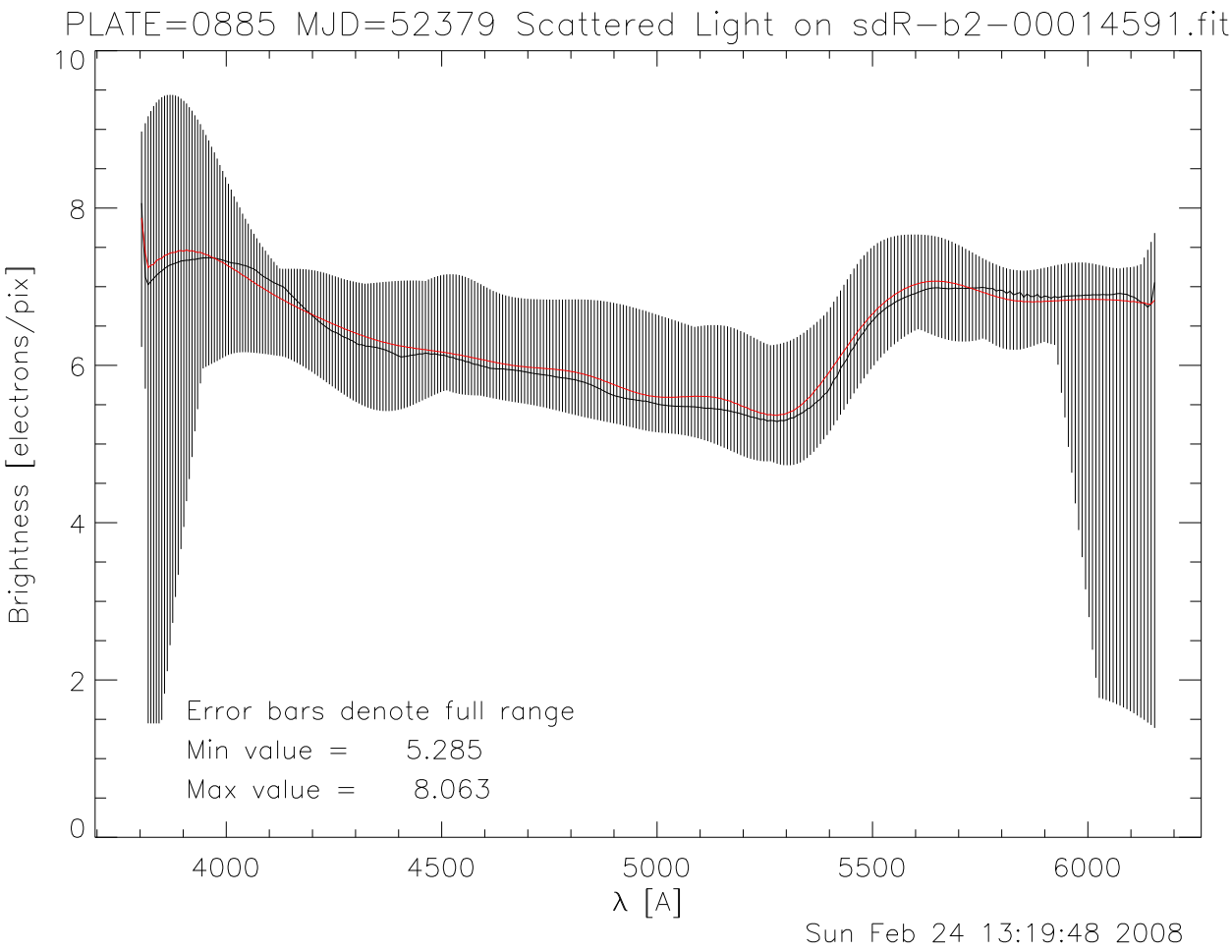

PLATE=0885 MJD=52379 sdR-b2-00014590.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.10 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

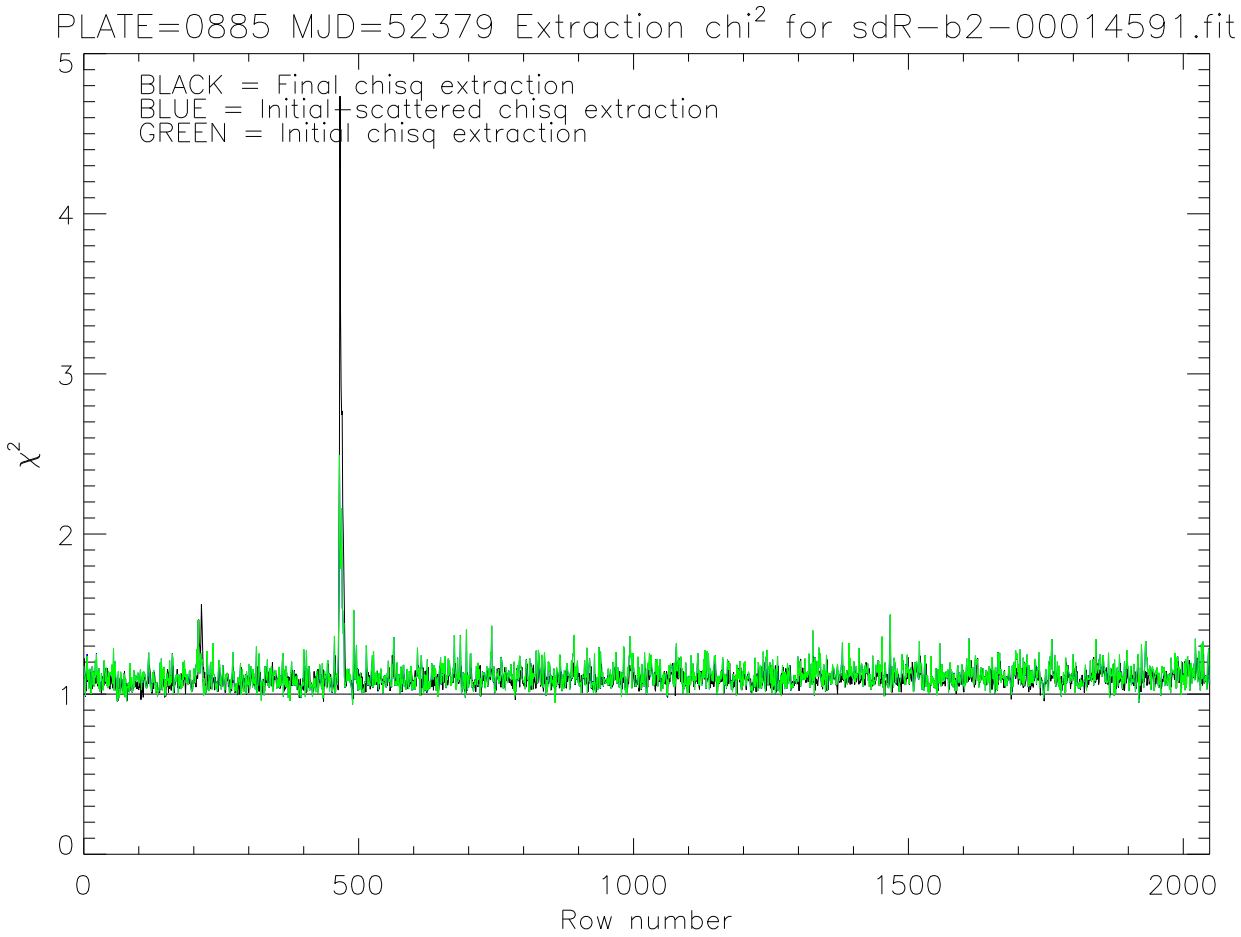

PLATE=0885 MJD=52379 Fiber-Flats for sdR-b2-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.504
Max value = 1.223
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:15:45 2008

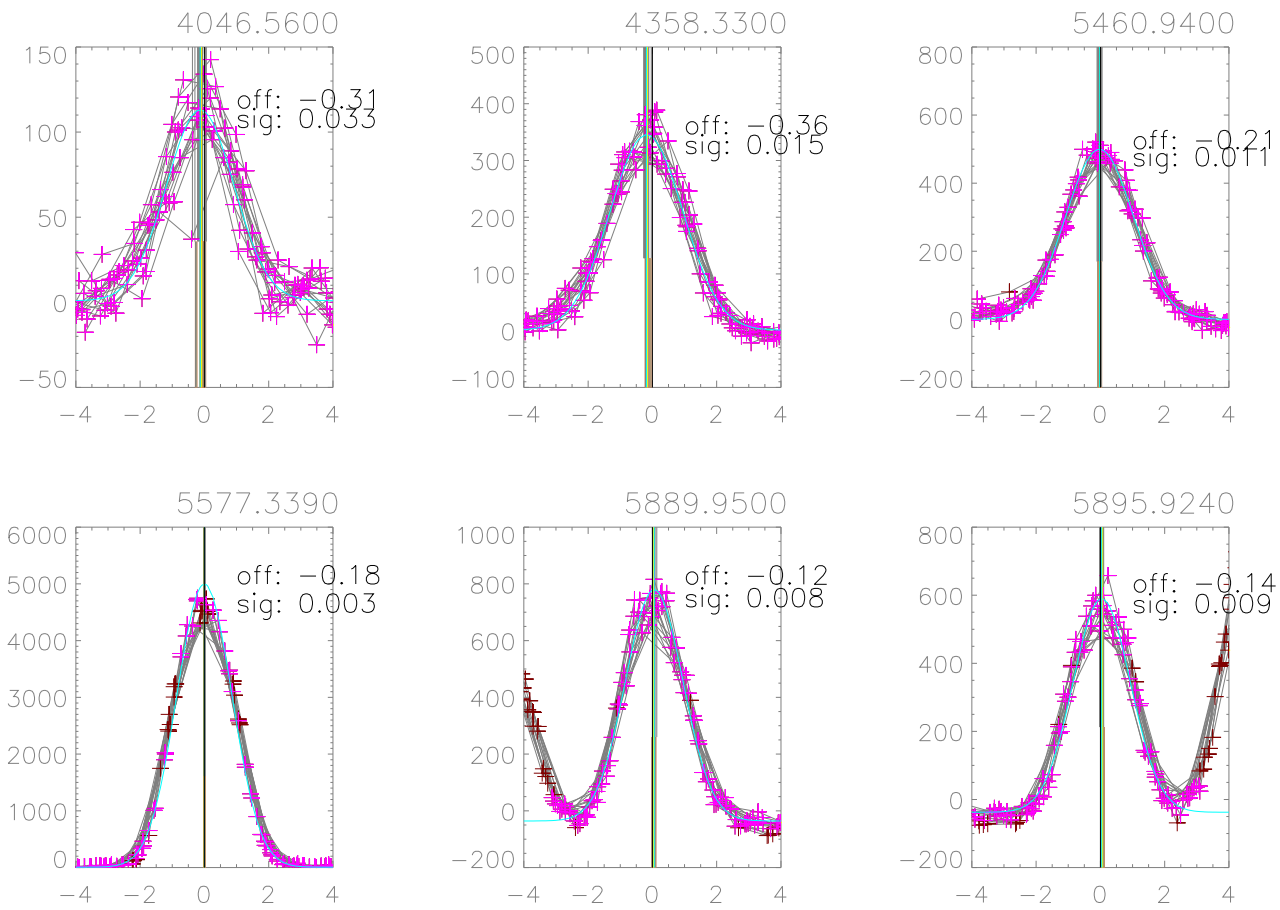

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b2-00014591.f
10.91
9.82
8.73
7.64
7.64
7.64
7.64
8.73
8.73
7.64
Y [pix]
X [pix]
0
500
1000
1500
2000

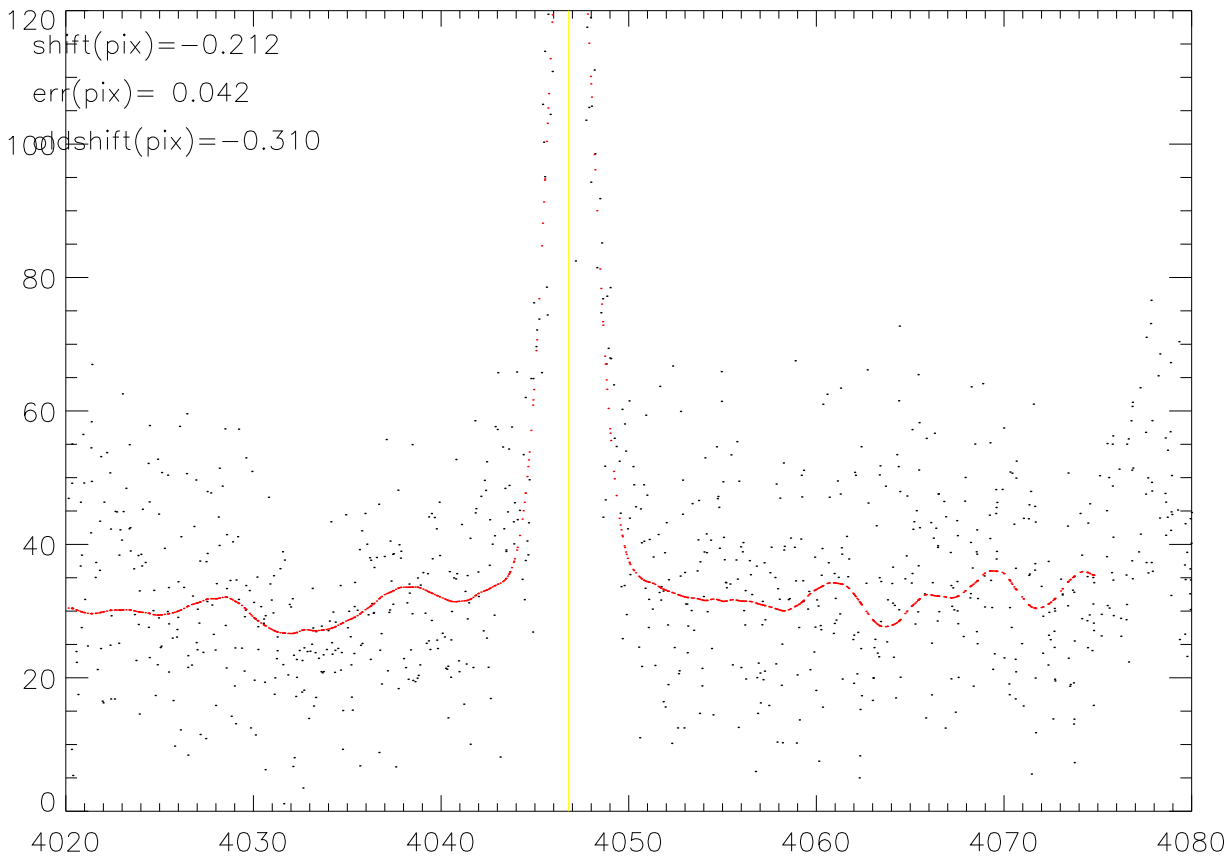

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b2-00014591.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.524
Max value = 10.890
Sun Feb 24 13:16:36 2008

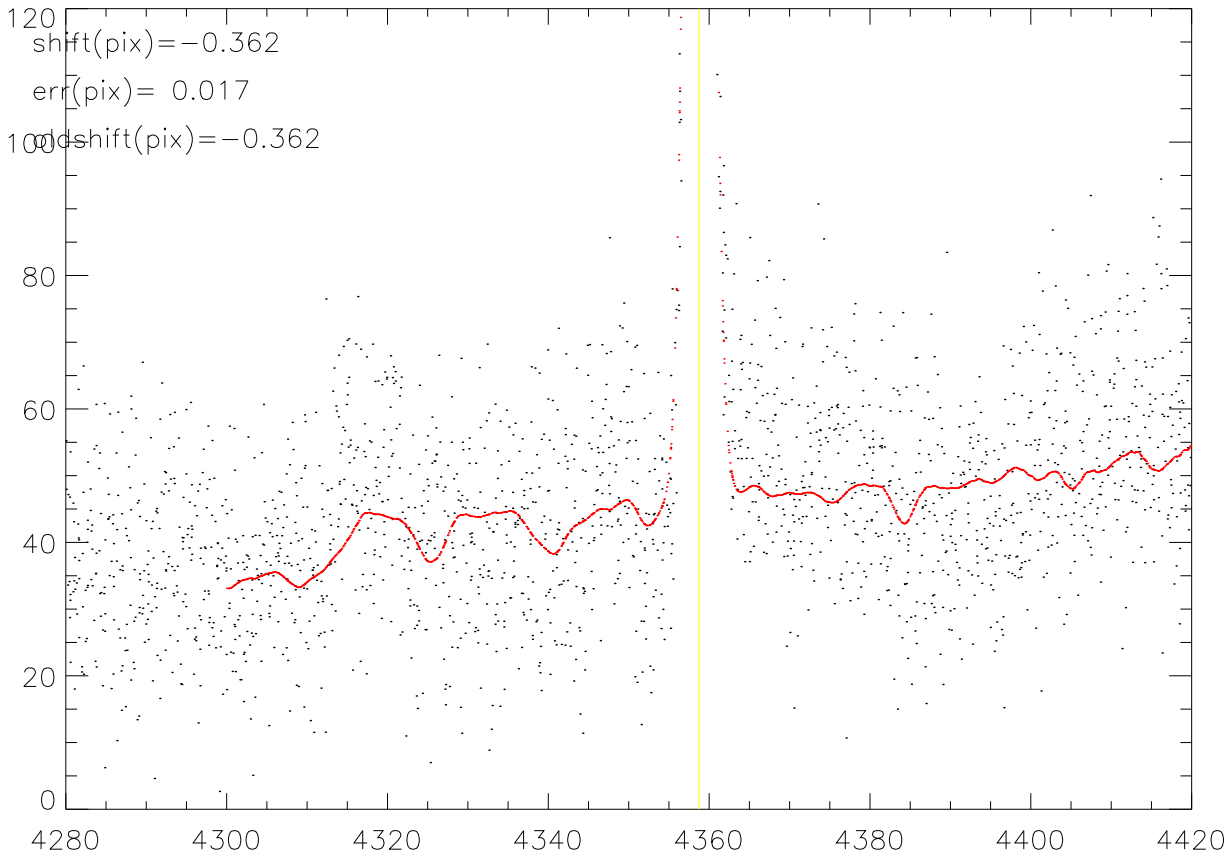

PLATE=0885 MJD=52379 Scattered Light on sdR-b2-00014591.fit
7.82
6.73
6.73
5.64
5.64
5.64
6.73
6.73
6.73
0
0
0
Y [pix]
X [pix]
2000
1500
1000
500
0
0
500
1000
1500
2000

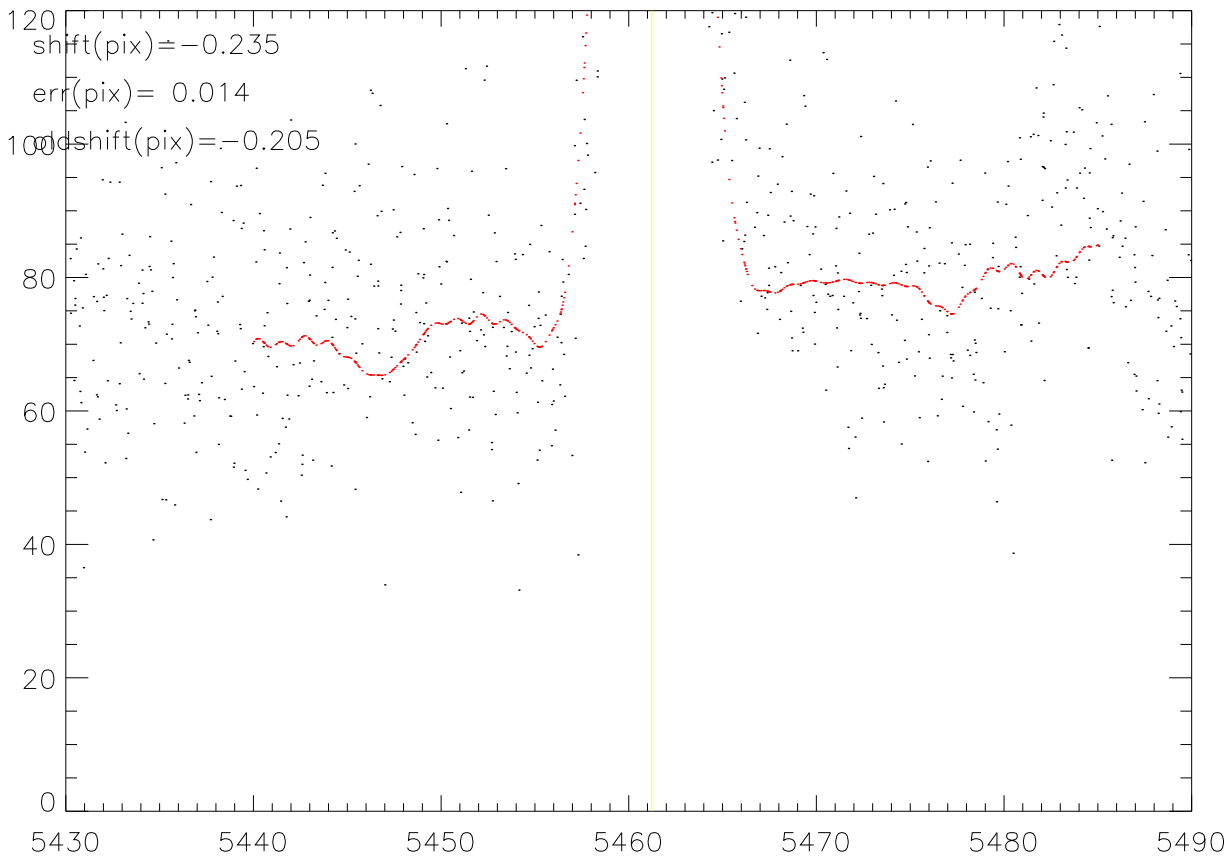

PLATE=0885 MJD=52379 Scattered Light on sdR-b2-00014591.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 5.285
Max value = 8.063
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:19:48 2008

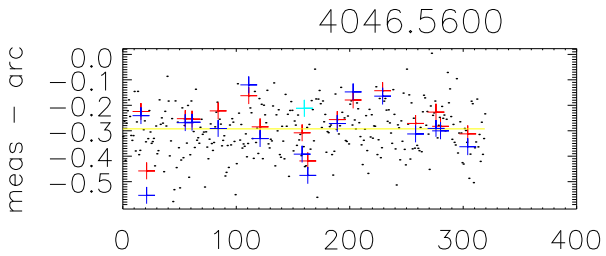

PLATE=0885 MJD=52379 Extraction chi^2 for sdR-b2-00014591.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

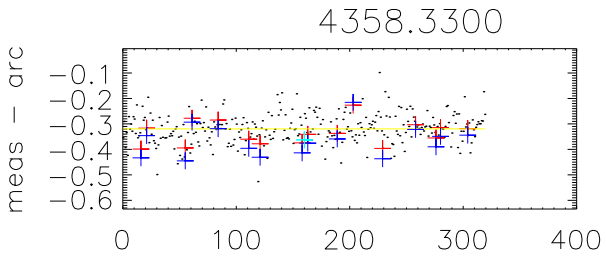

4046.5600
off: −0.31
sig: 0.033
4358.3300
off: −0.36
sig: 0.015
5460.9400
off: −0.21
sig: 0.011
5577.3390
off: −0.18
sig: 0.003
5889.9500
off: −0.12
sig: 0.008
5895.9240
off: −0.14
sig: 0.009

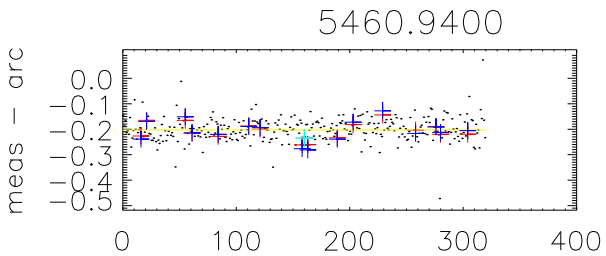

shift(pix)=−0.212
err(pix)= 0.042
oldshift(pix)=−0.310
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

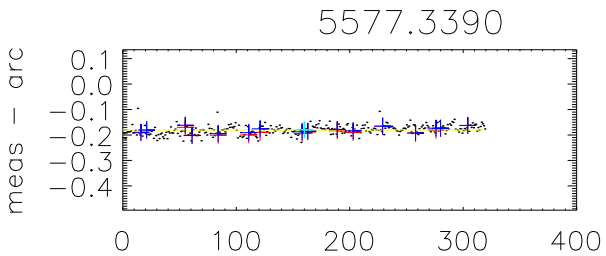

shift(pix)=−0.362
err(pix)= 0.017
oldshift(pix)=−0.362
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

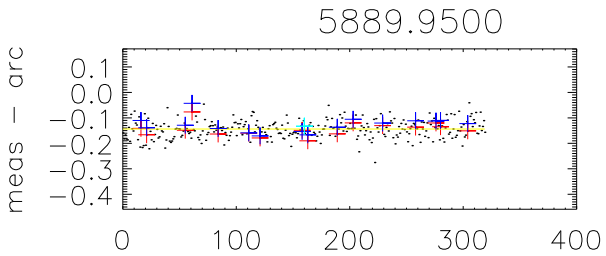

shift(pix)=−0.235
err(pix)= 0.014
oldshift(pix)=−0.205
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

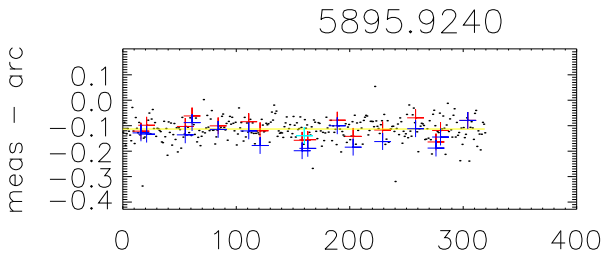

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

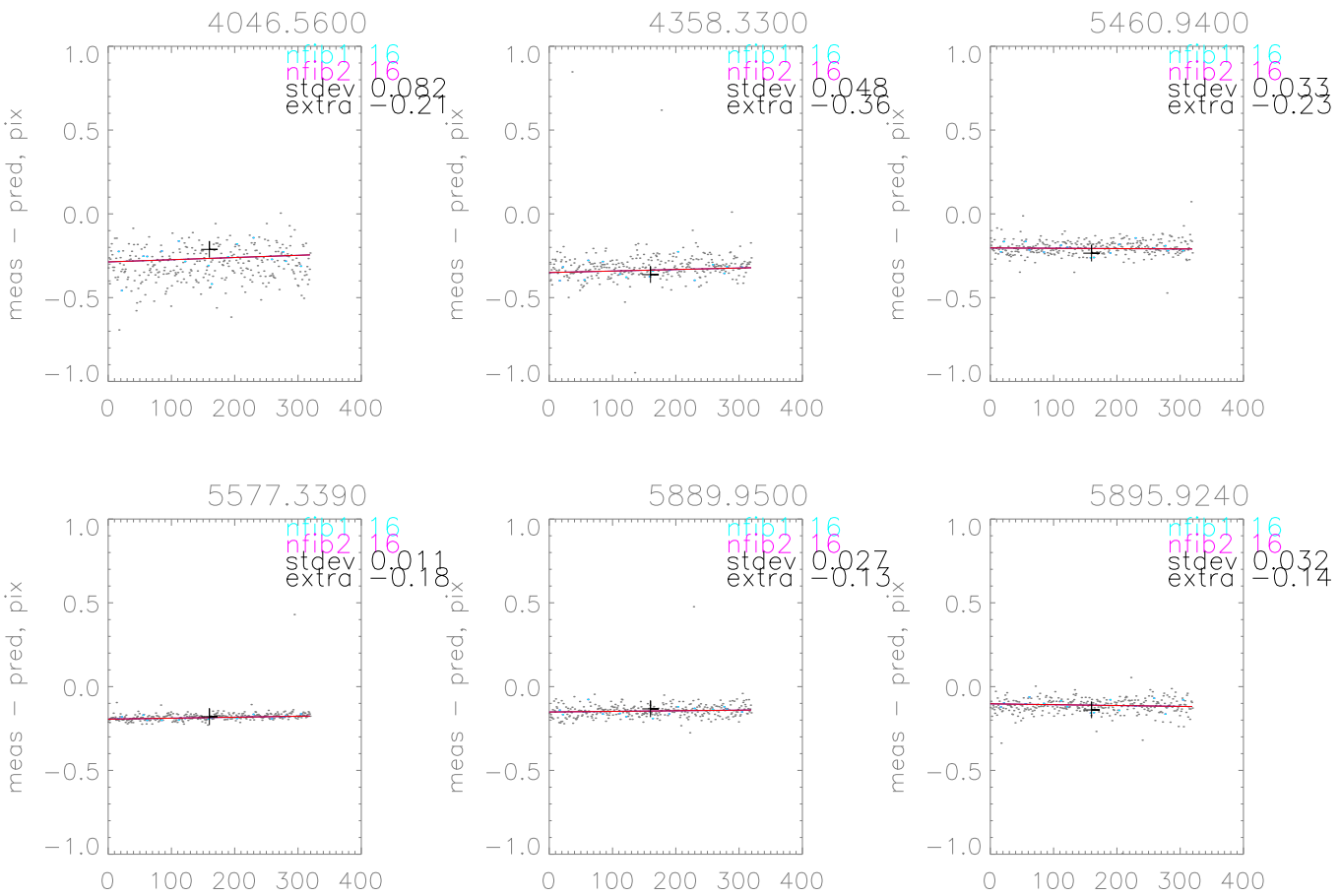

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

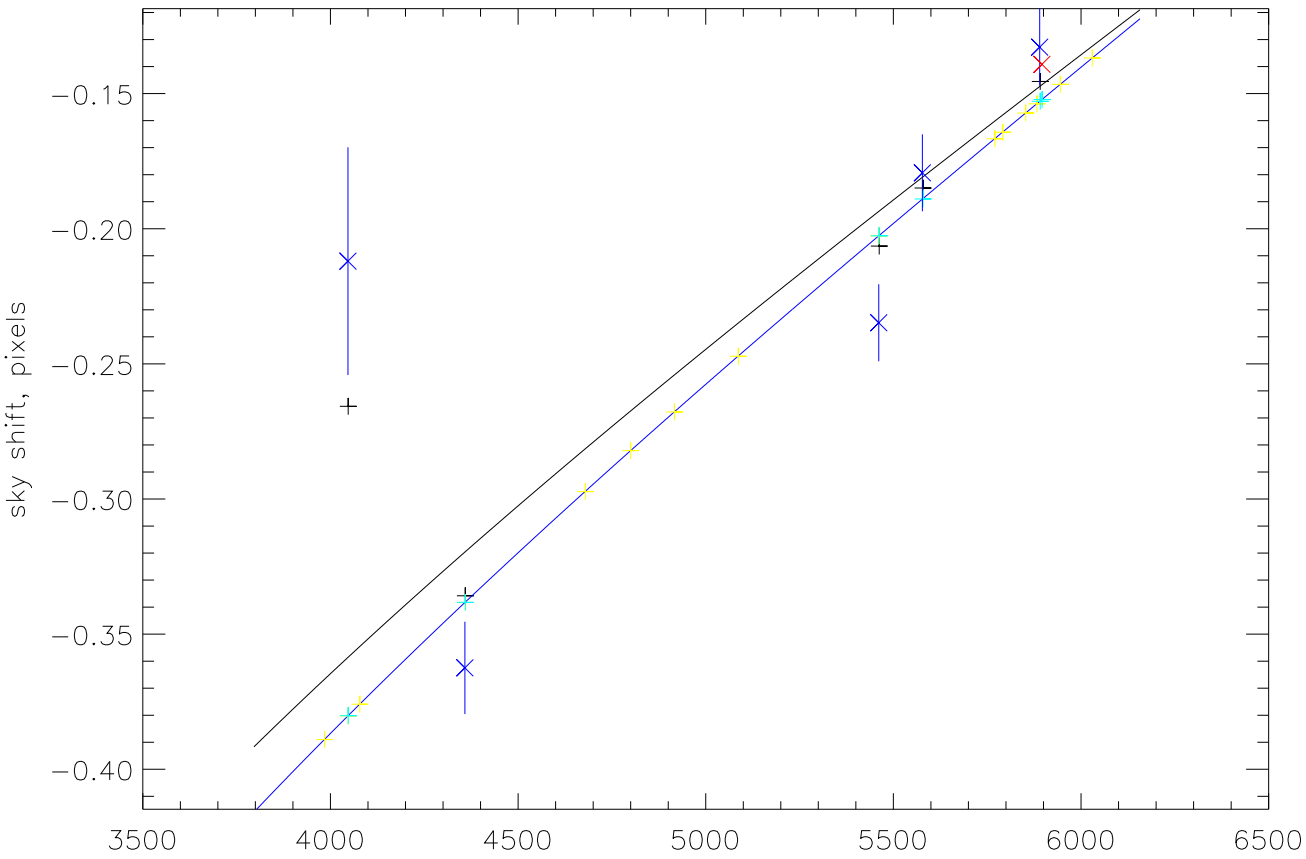

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

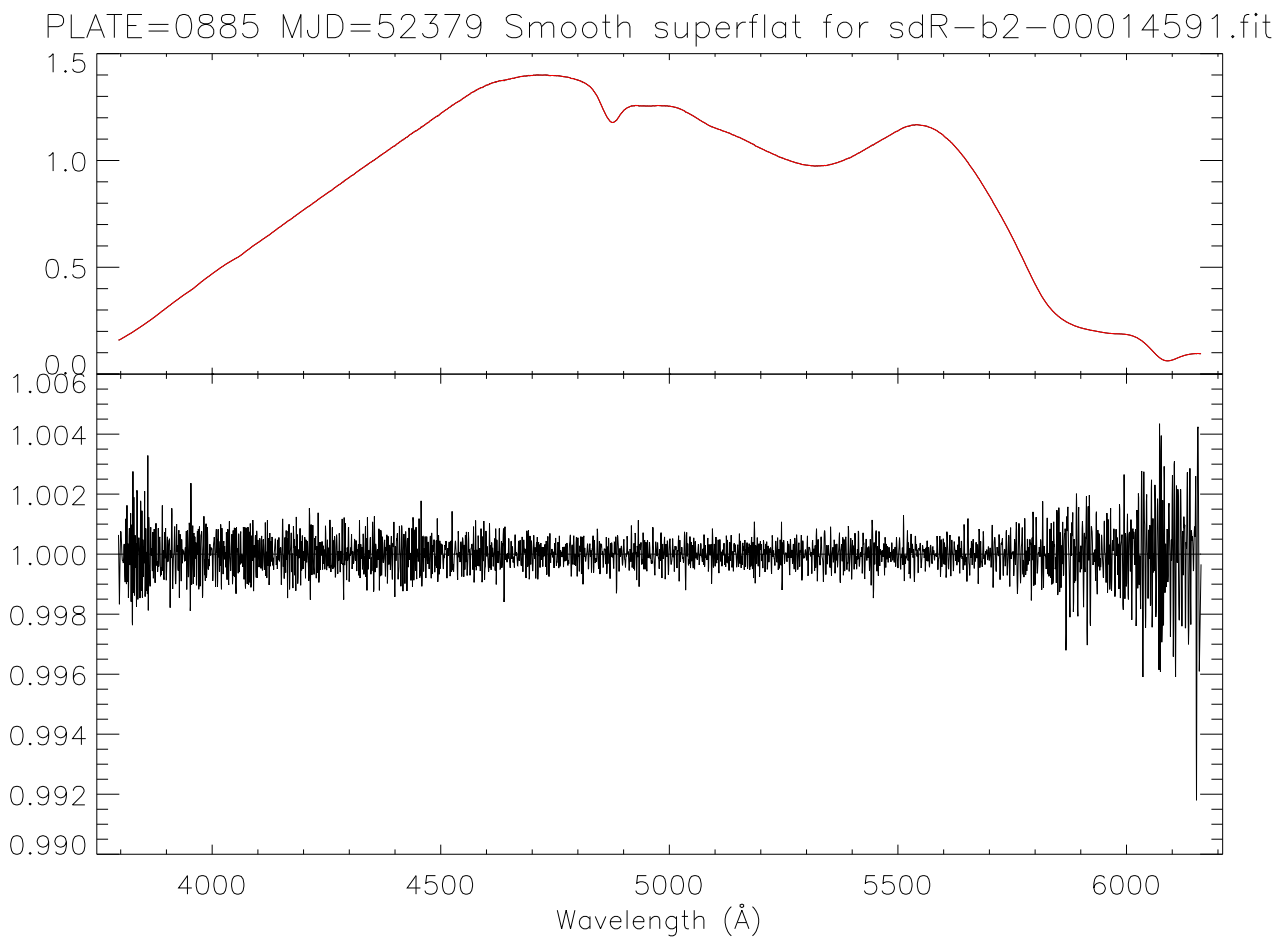

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

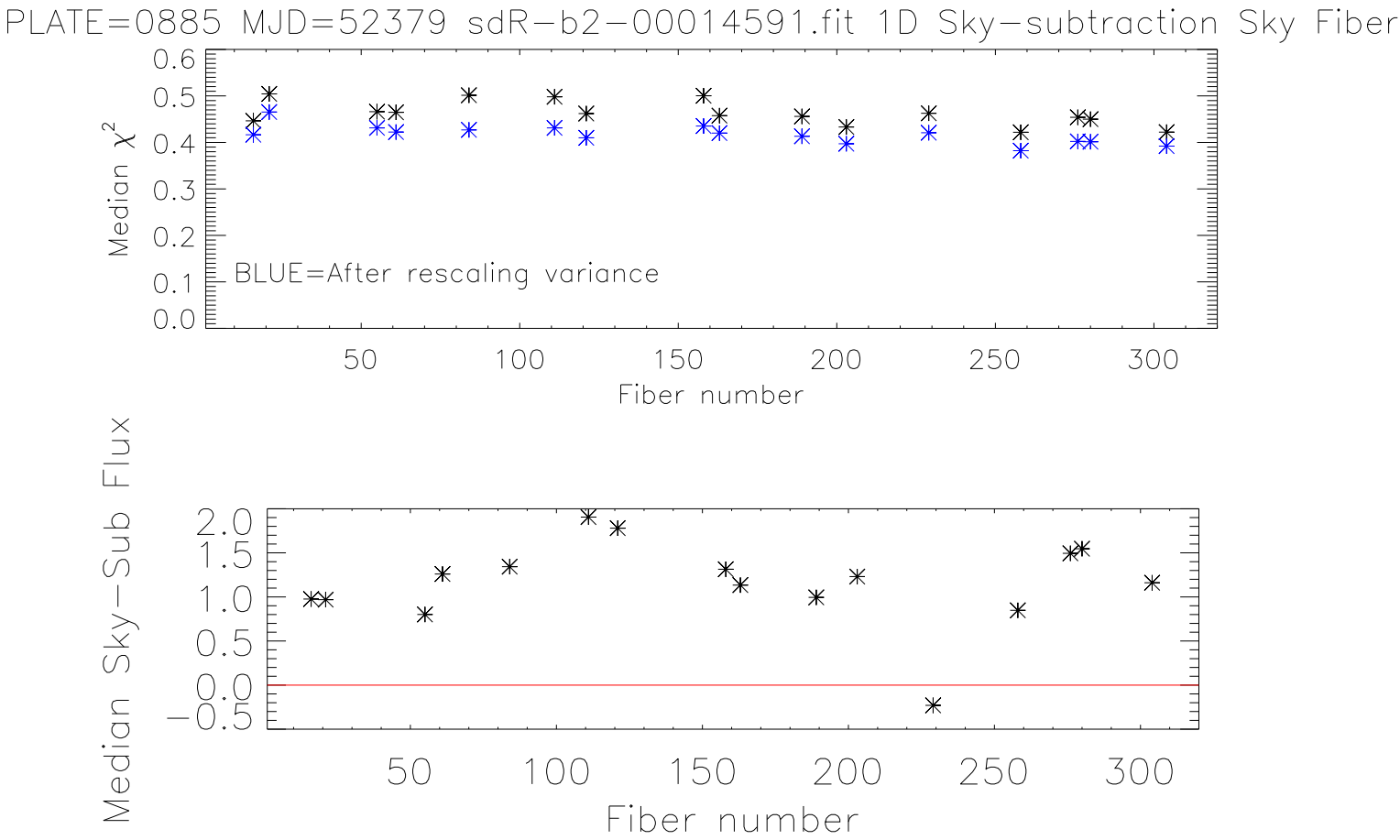

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

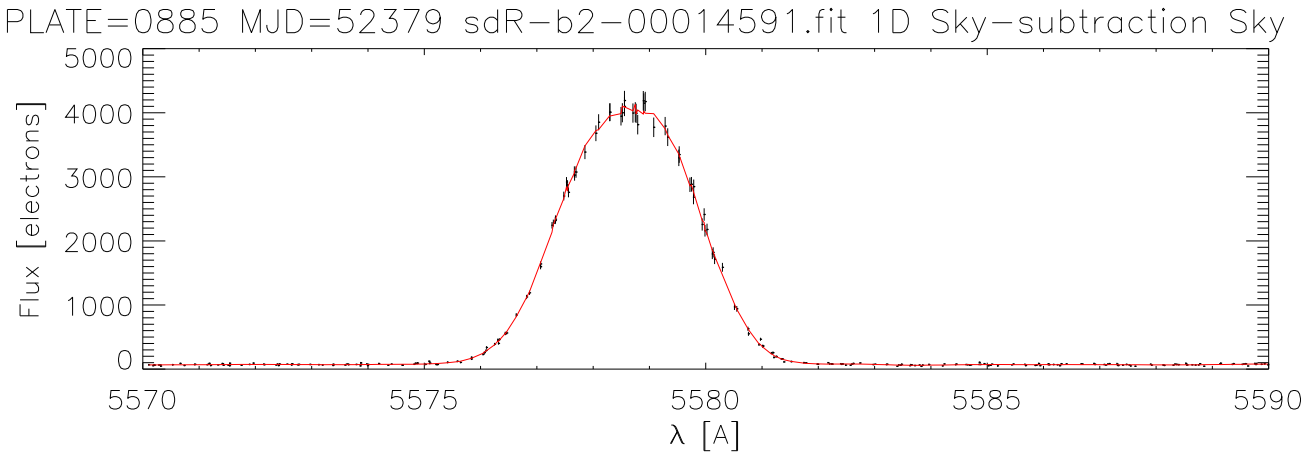

4046.5600
nfib1 16
nfib2 16
stdev 0.082
extra −0.21
4358.3300
nfib1 16
nfib2 16
stdev 0.048
extra −0.36
5460.9400
nfib1 16
nfib2 16
stdev 0.033
extra −0.23
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra −0.18
5889.9500
nfib1 16
nfib2 16
stdev 0.027
extra −0.13
5895.9240
nfib1 16
nfib2 16
stdev 0.032
extra −0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

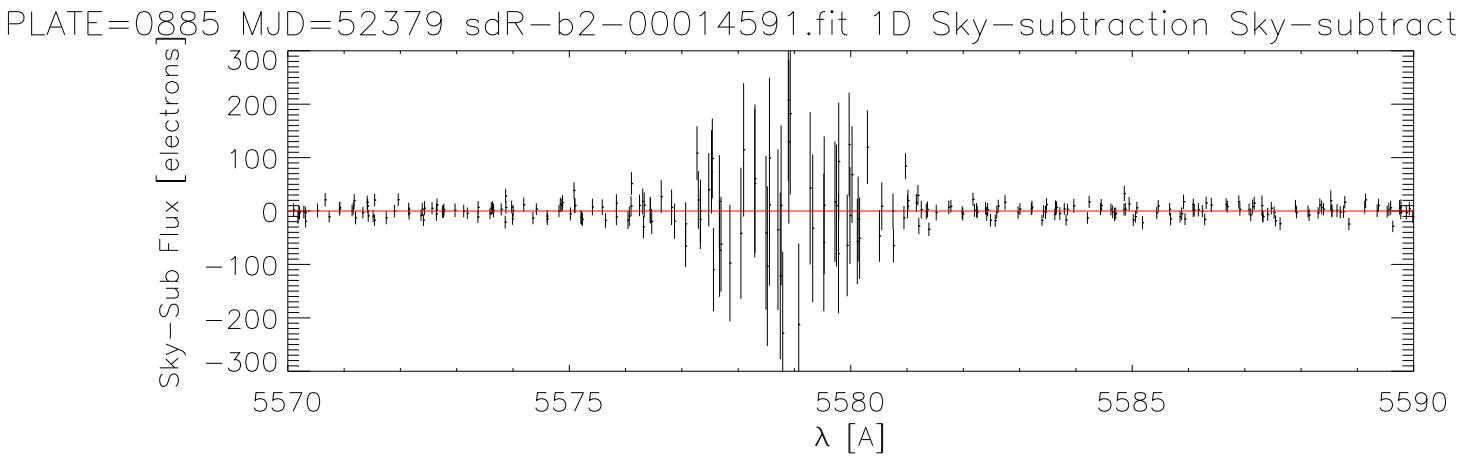

−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

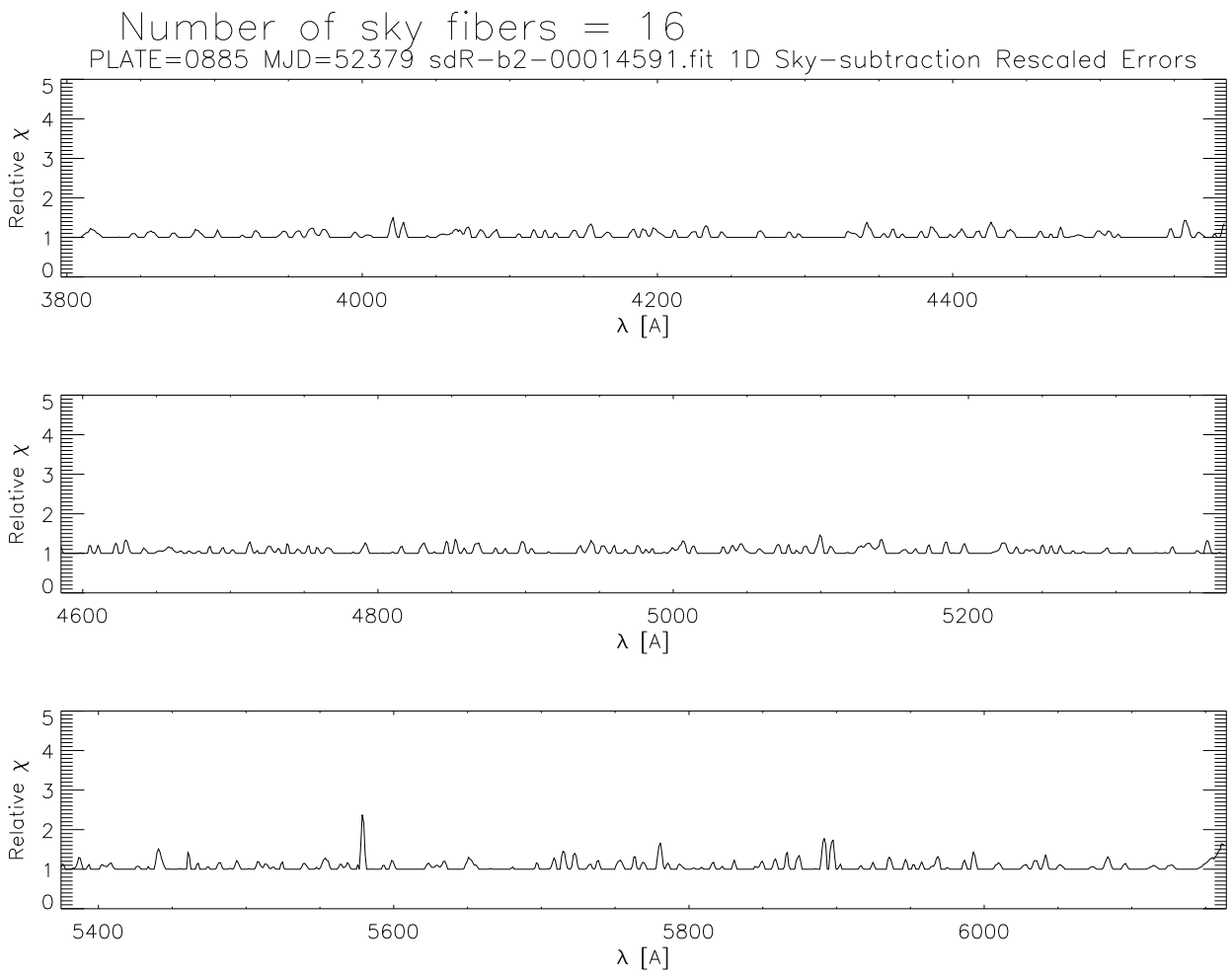
es= −0.0000

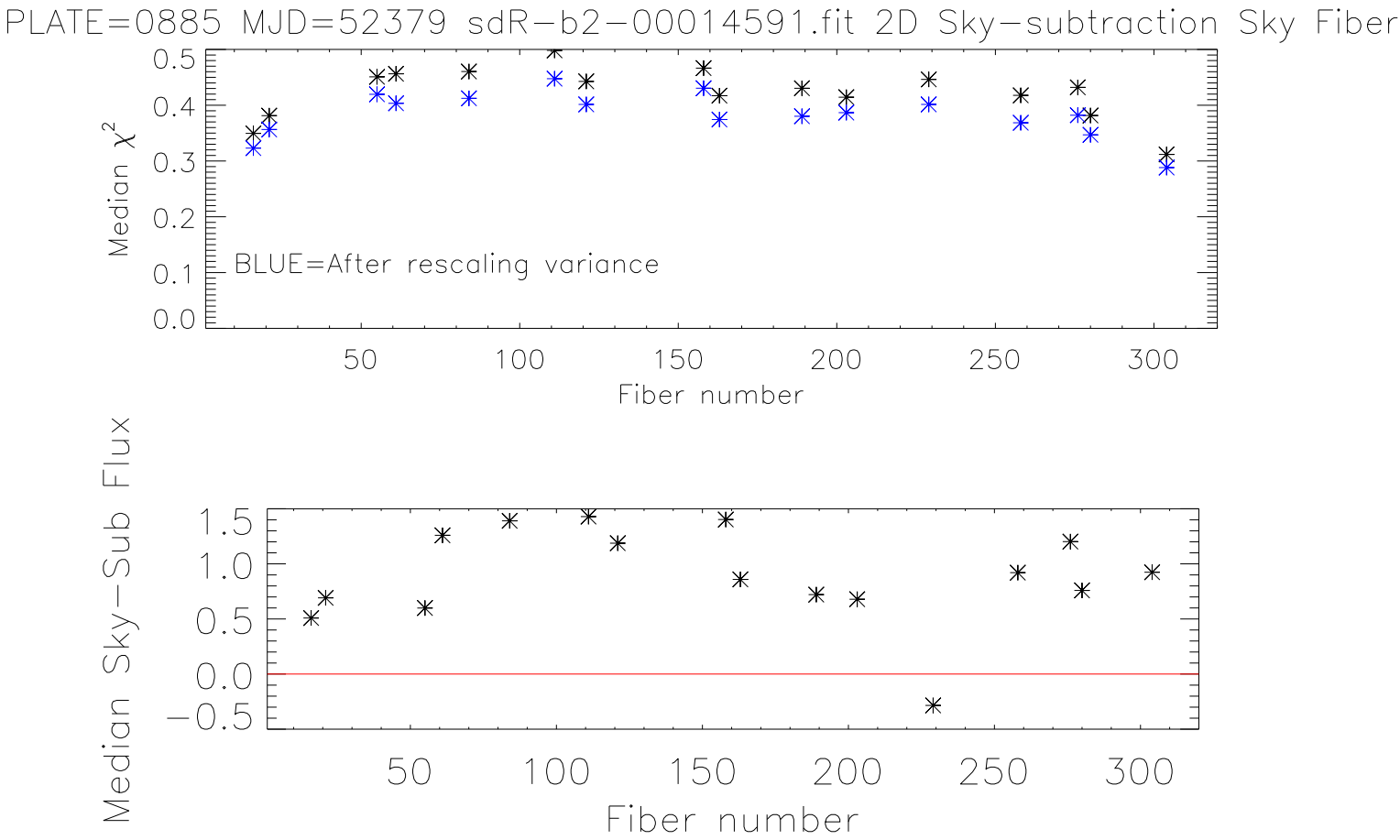

PLATE=0885 MJD=52379 Smooth superflat for sdR−b2−00014591.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

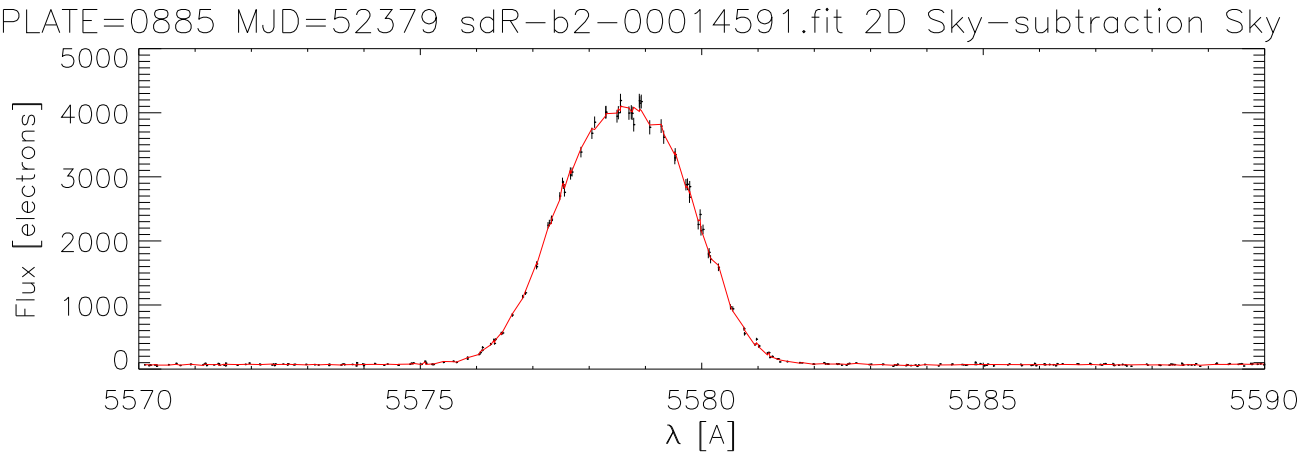

PLATE=0885 MJD=52379 sdR-b2-00014591.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

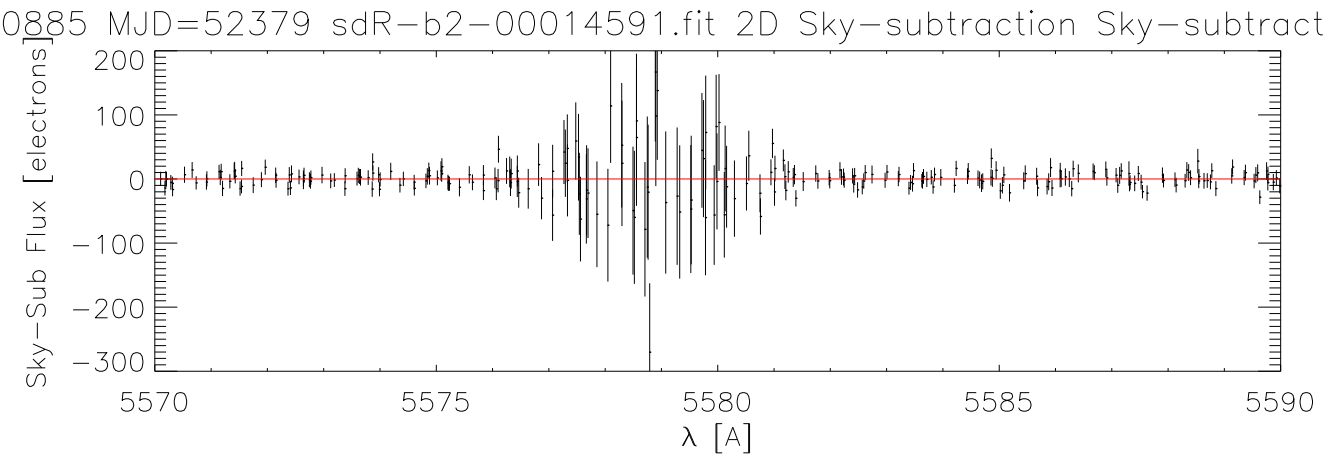

PLATE=0885 MJD=52379 sdR-b2-00014591.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

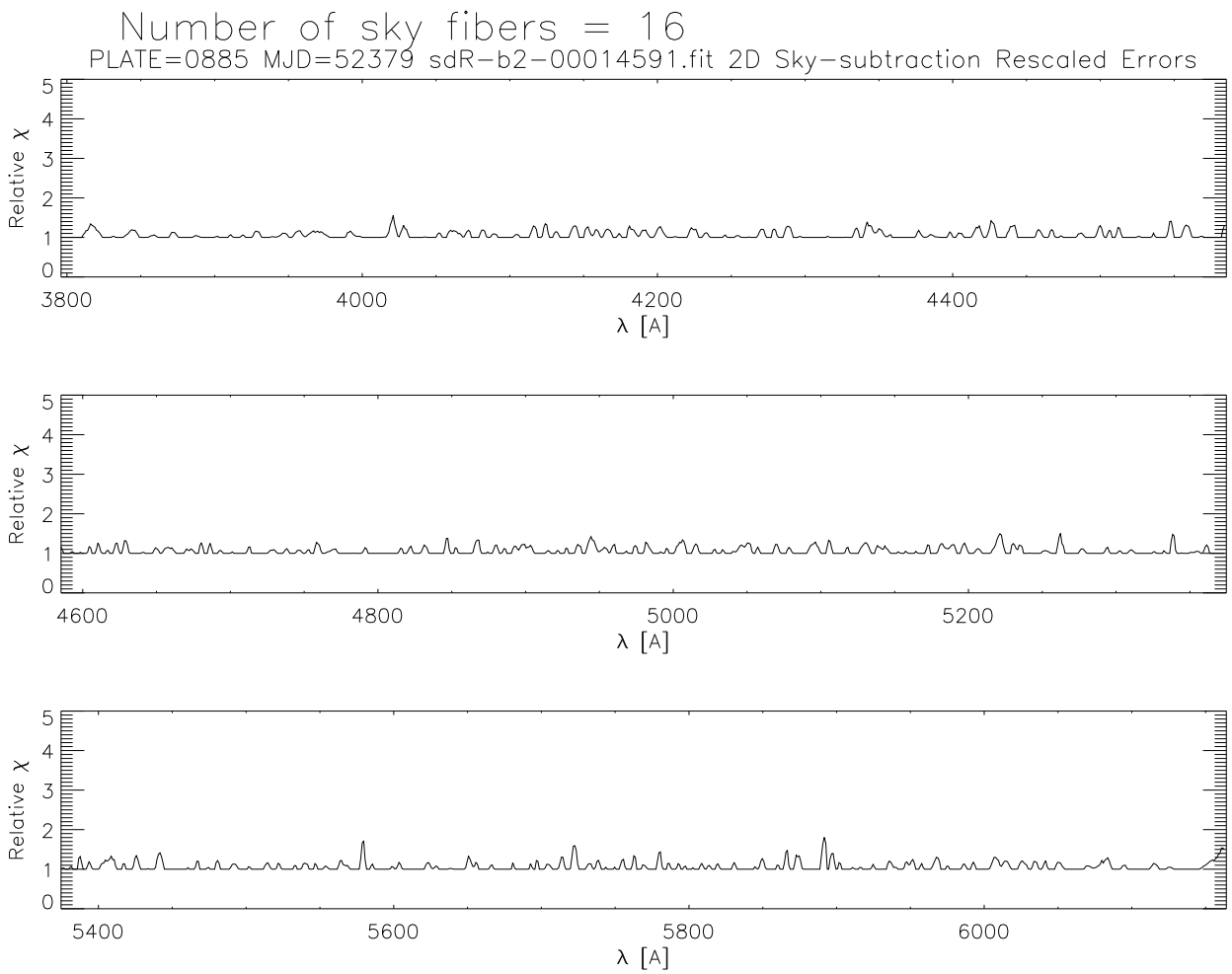

PLATE=0885 MJD=52379 sdR-b2-00014591.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

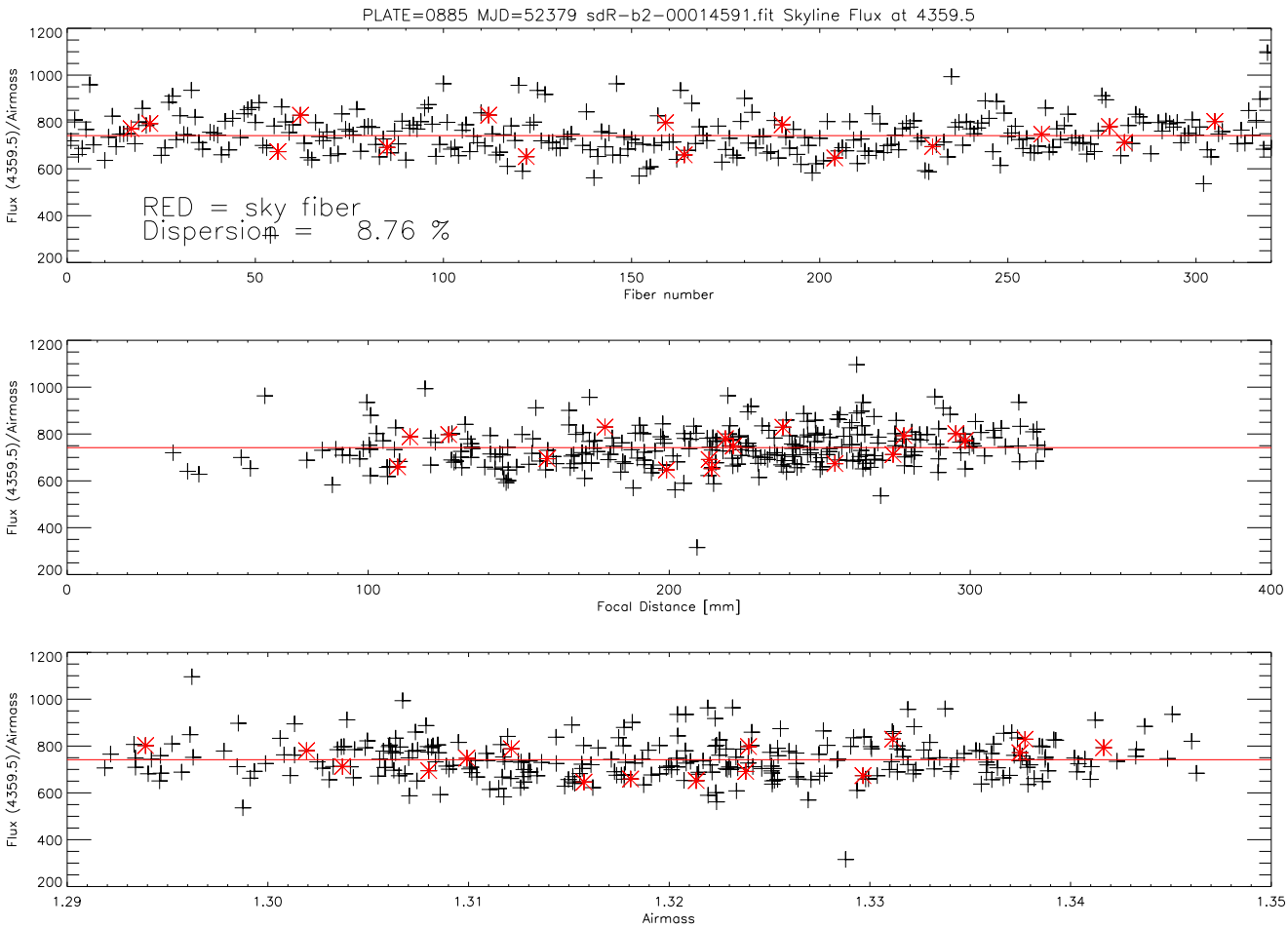

Number of sky fibers = 16
PLATE=0885 MJD=52379 sdR-b2-00014591.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

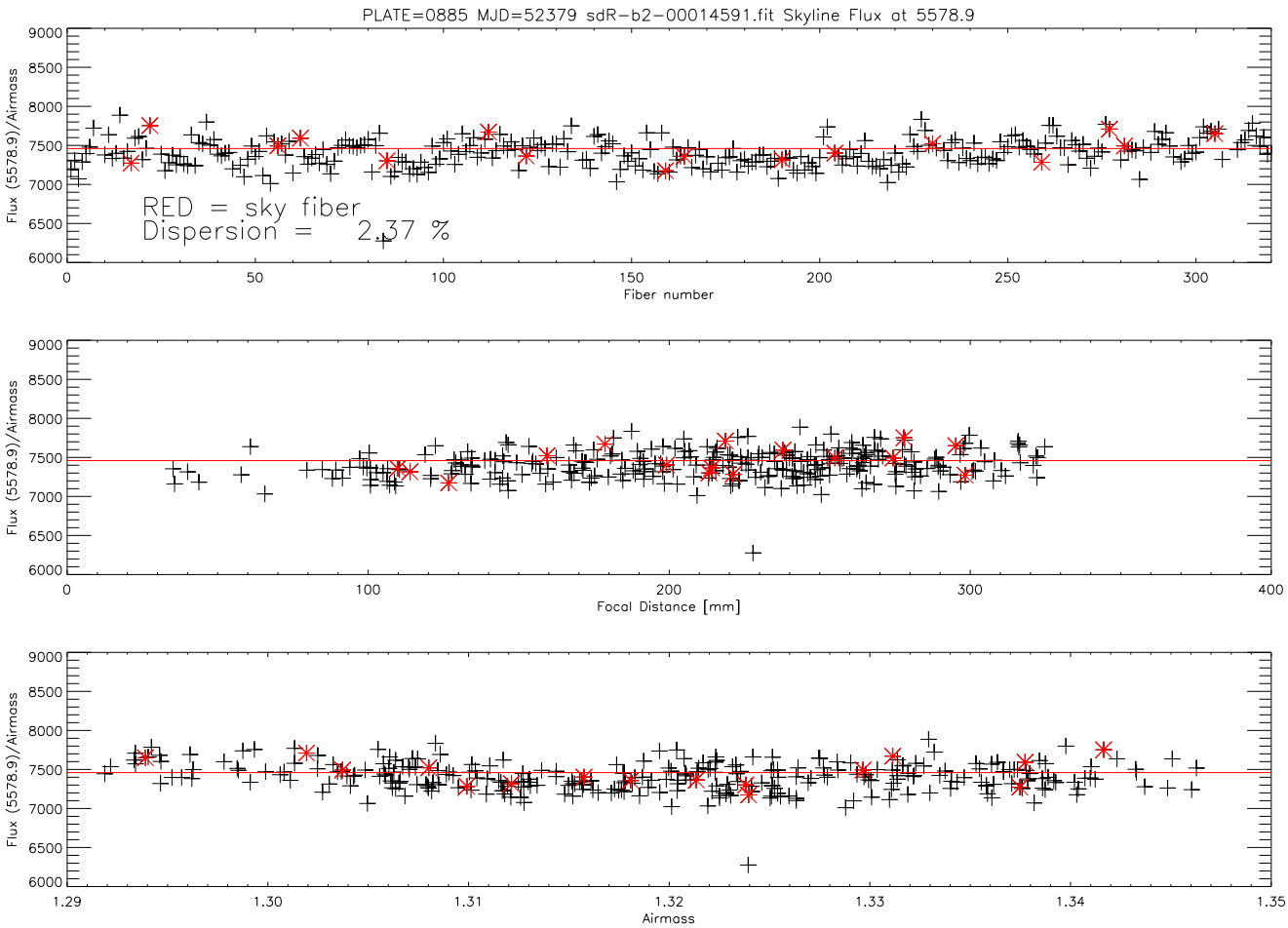

PLATE=0885 MJD=52379 sdR-b2-00014591.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

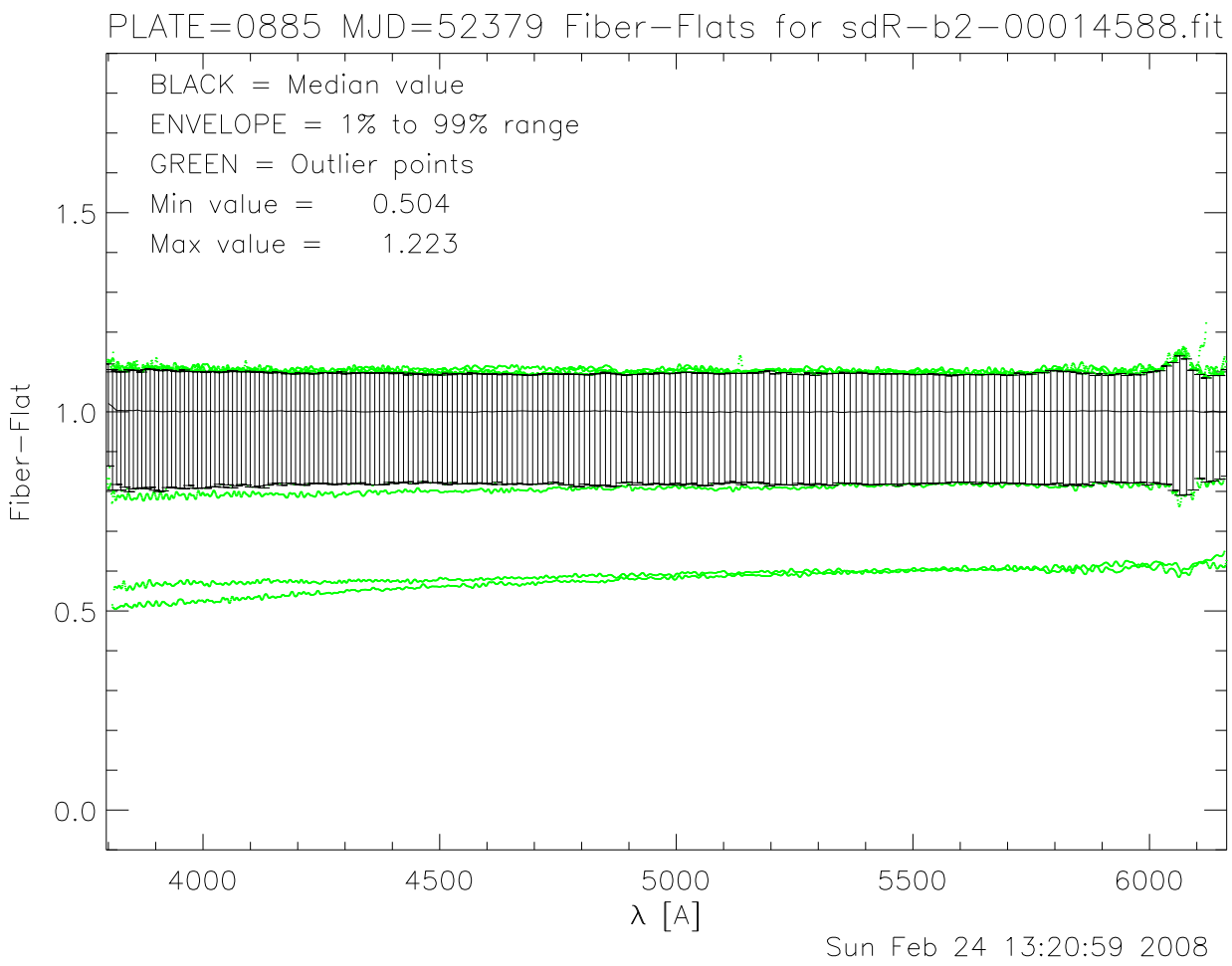

PLATE=0885 MJD=52379 sdR-b2-00014591.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

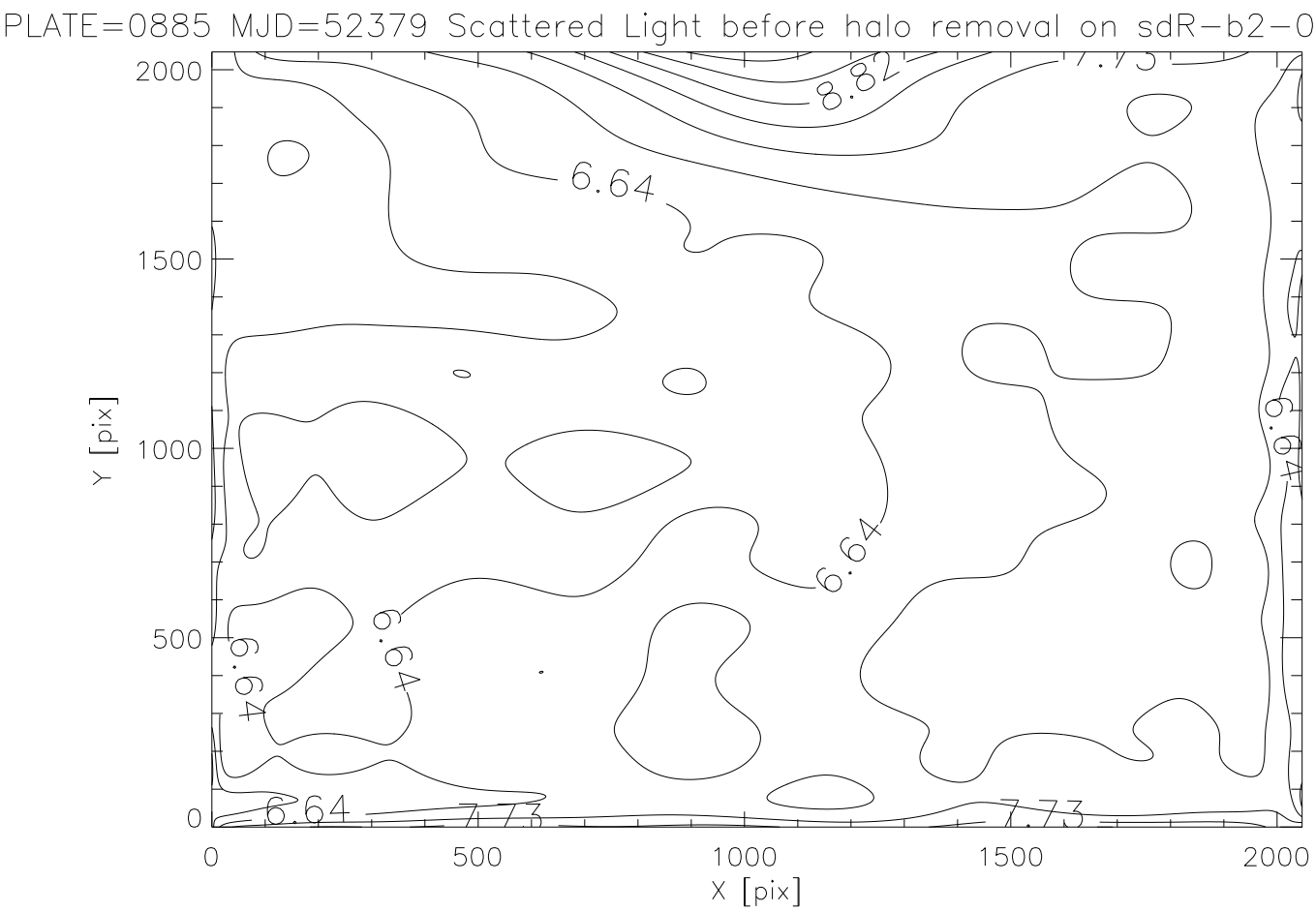

PLATE=0885 MJD=52379 sdR-b2-00014591.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

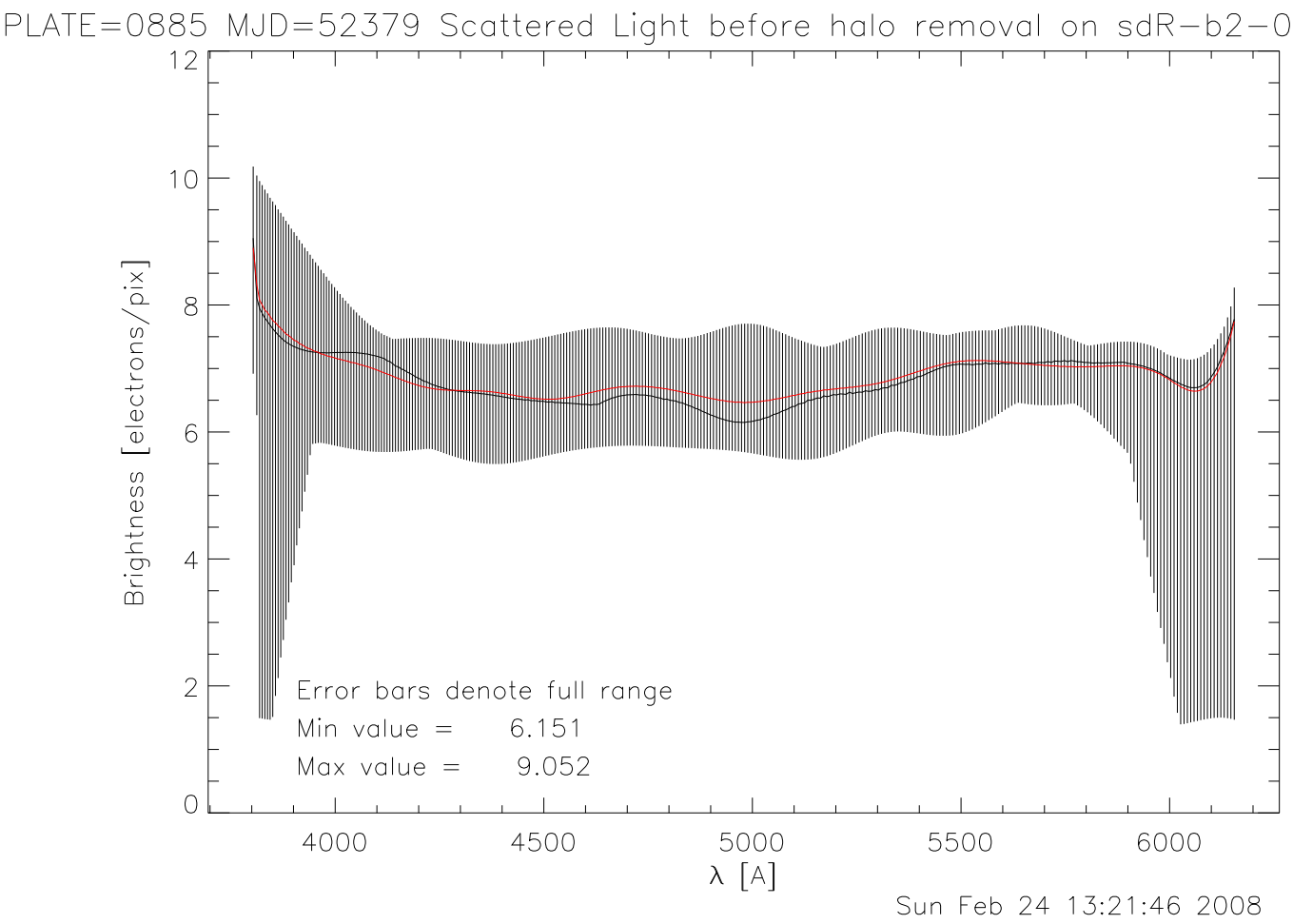

Number of sky fibers = 16
PLATE=0885 MJD=52379 sdR-b2-00014591.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

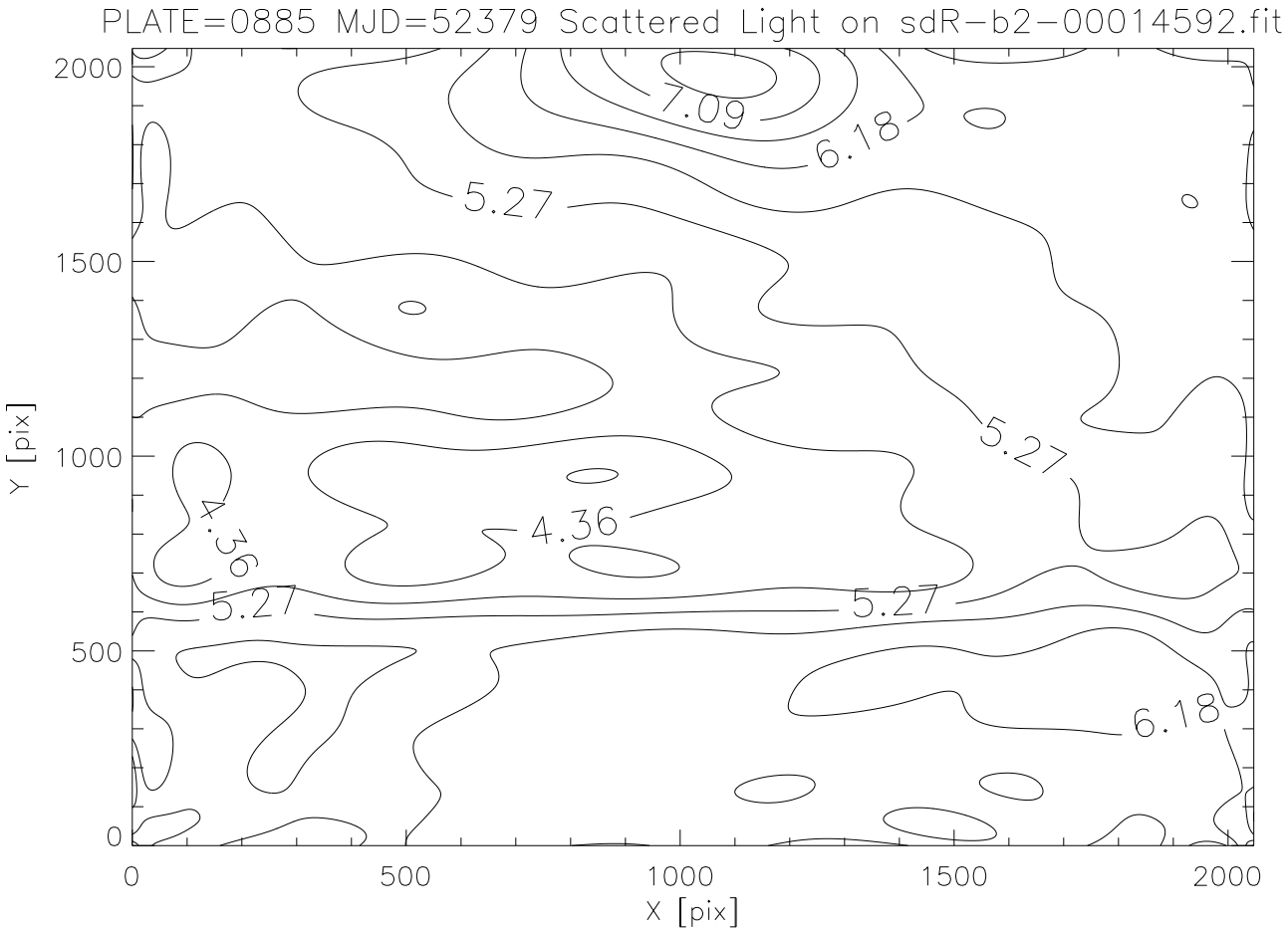

PLATE=0885 MJD=52379 sdR-b2-00014591.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.76 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

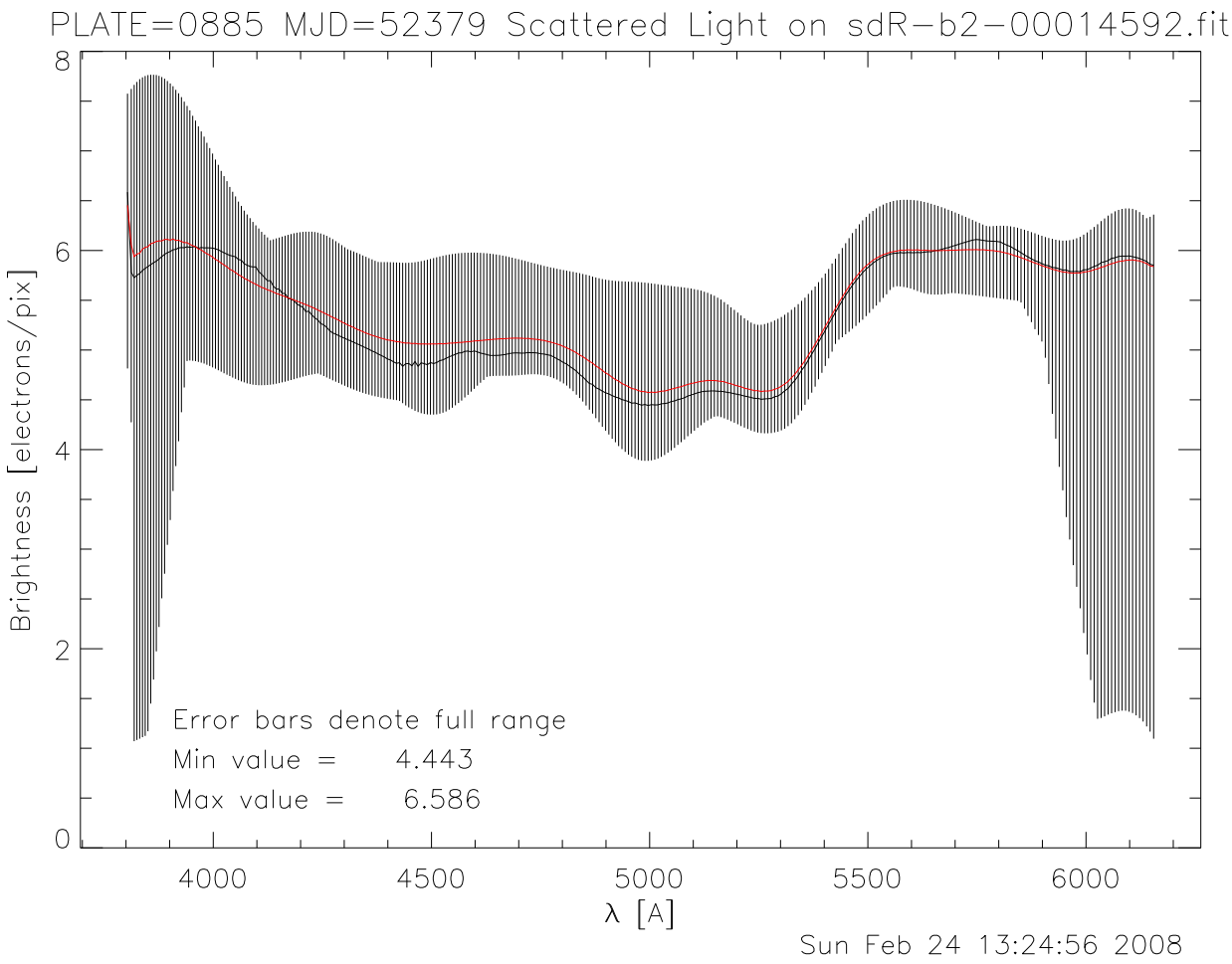

PLATE=0885 MJD=52379 sdR-b2-00014591.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

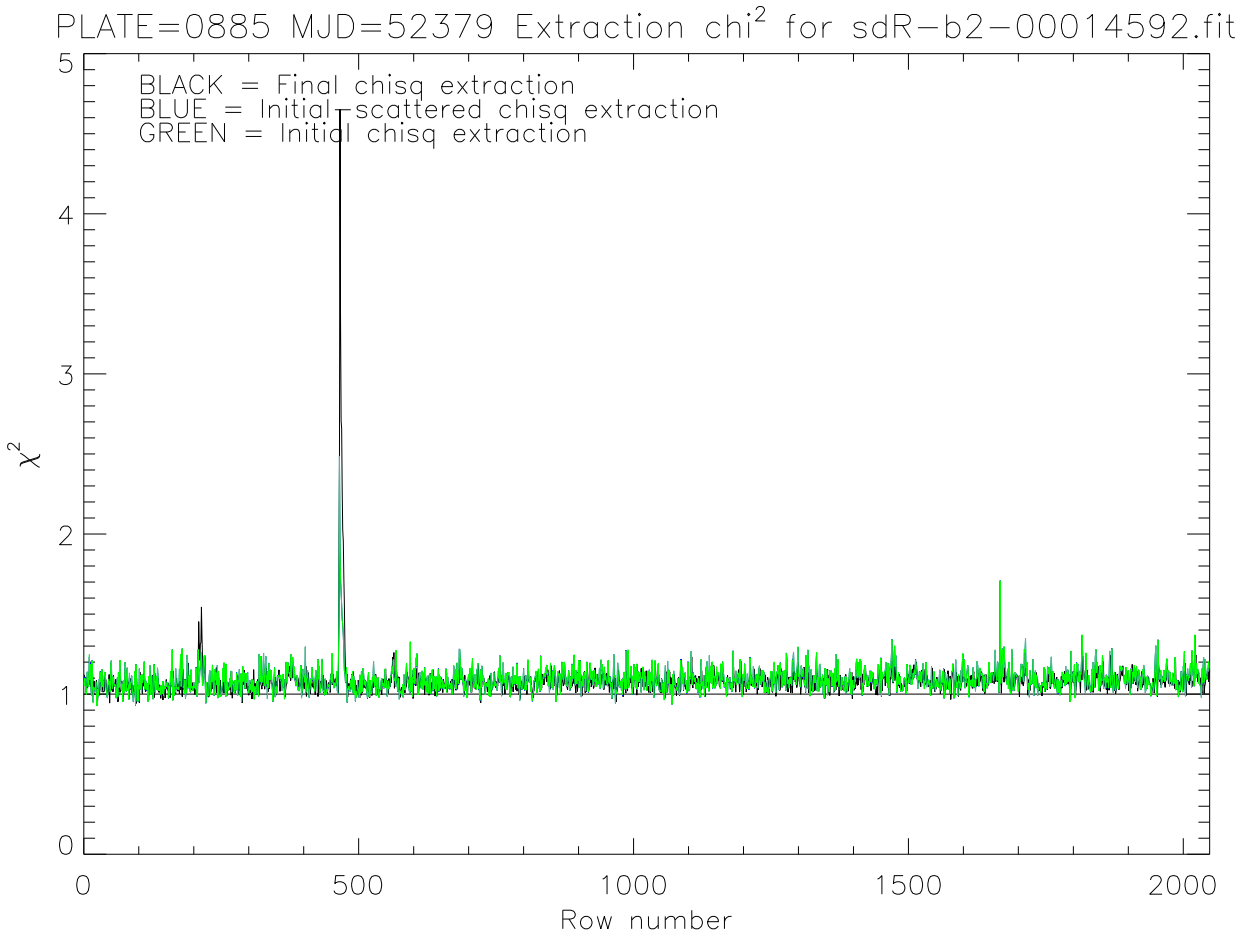

PLATE=0885 MJD=52379 Fiber-Flats for sdR-b2-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.504
Max value = 1.223
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:20:59 2008

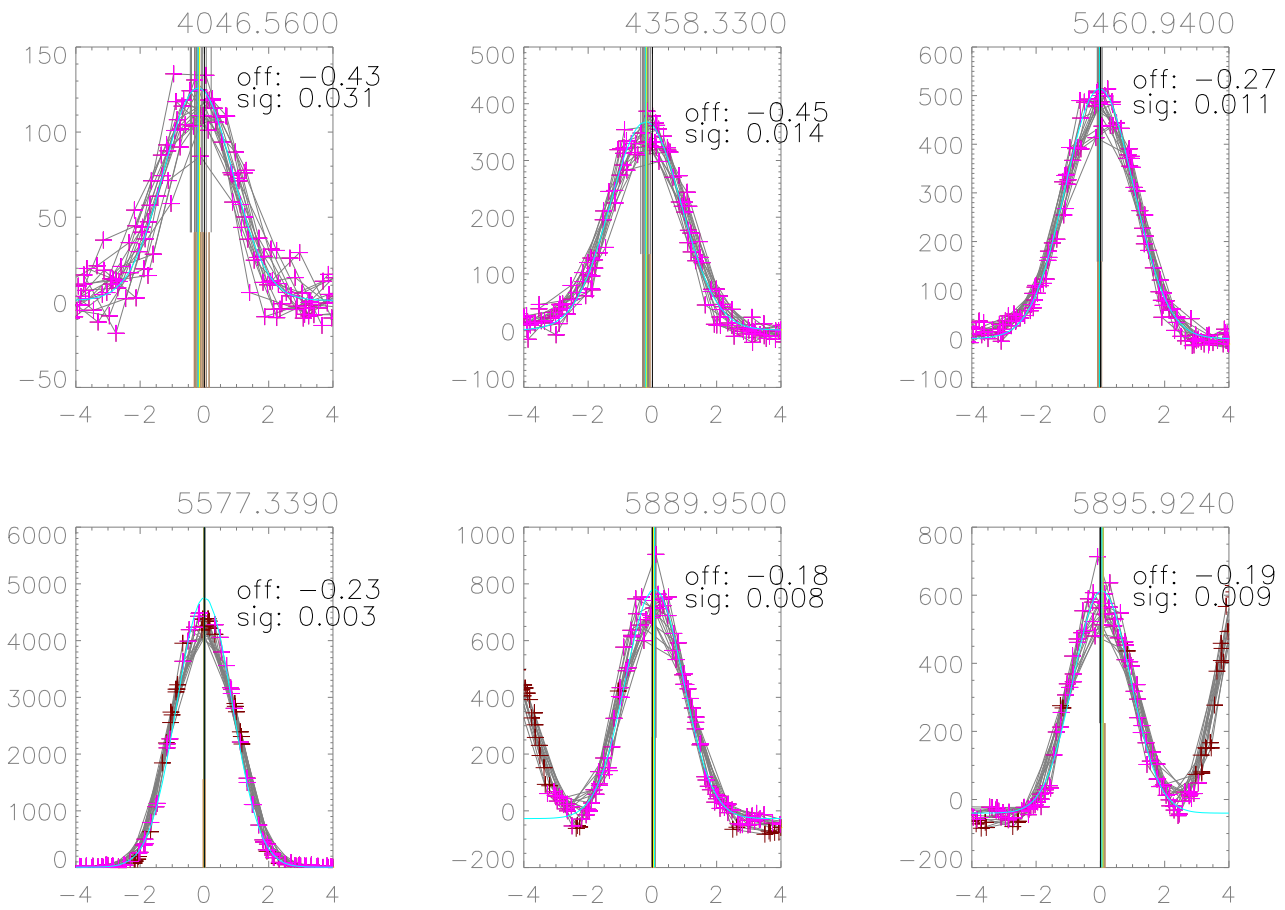

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR−b2−00014592.f
8.82
6.64
6.64
6.64
6.64
6.64
6.64
7.73
7.73
Y [pix]
X [pix]
0
500
1000
1500
2000

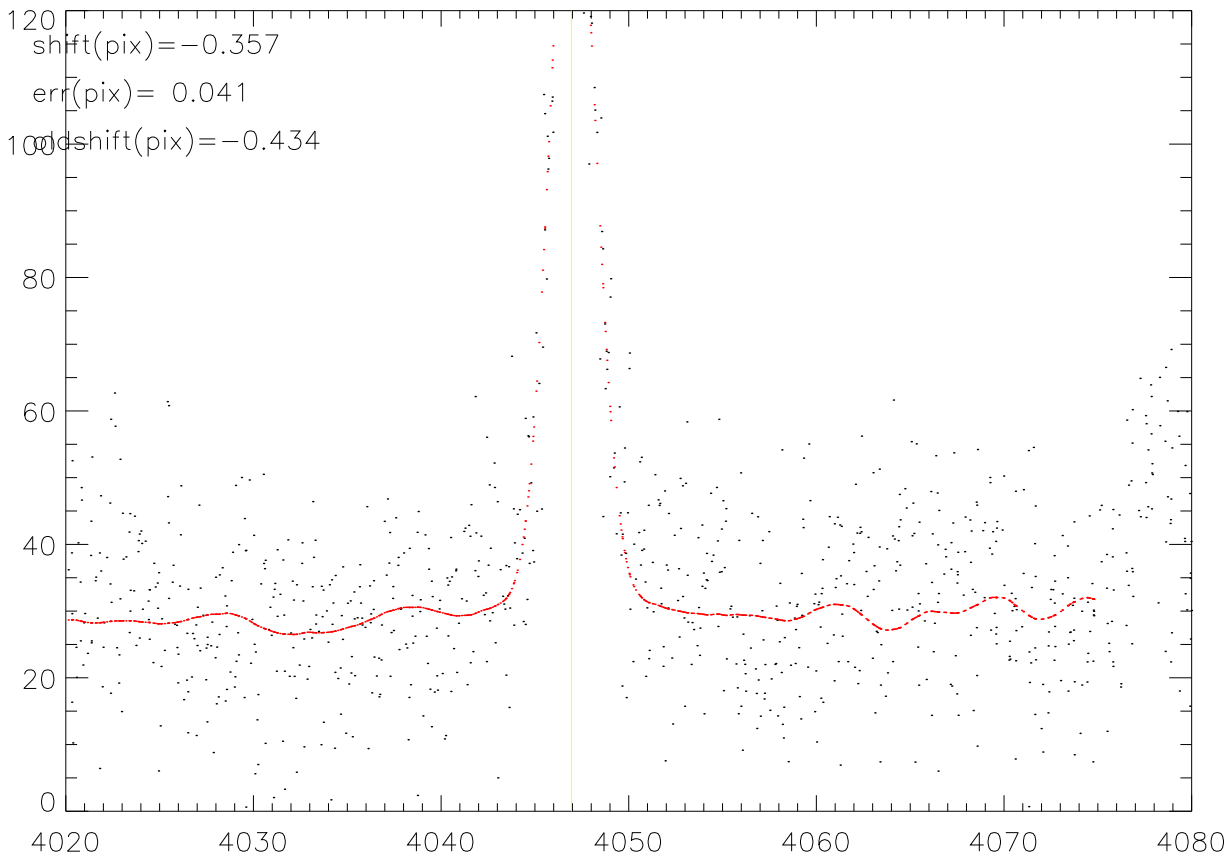

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b2-00014592.f
Brightness [electrons/pix]
12
10
8
6
4
2
0
Error bars denote full range
Min value = 6.151
Max value = 9.052
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:21:46 2008

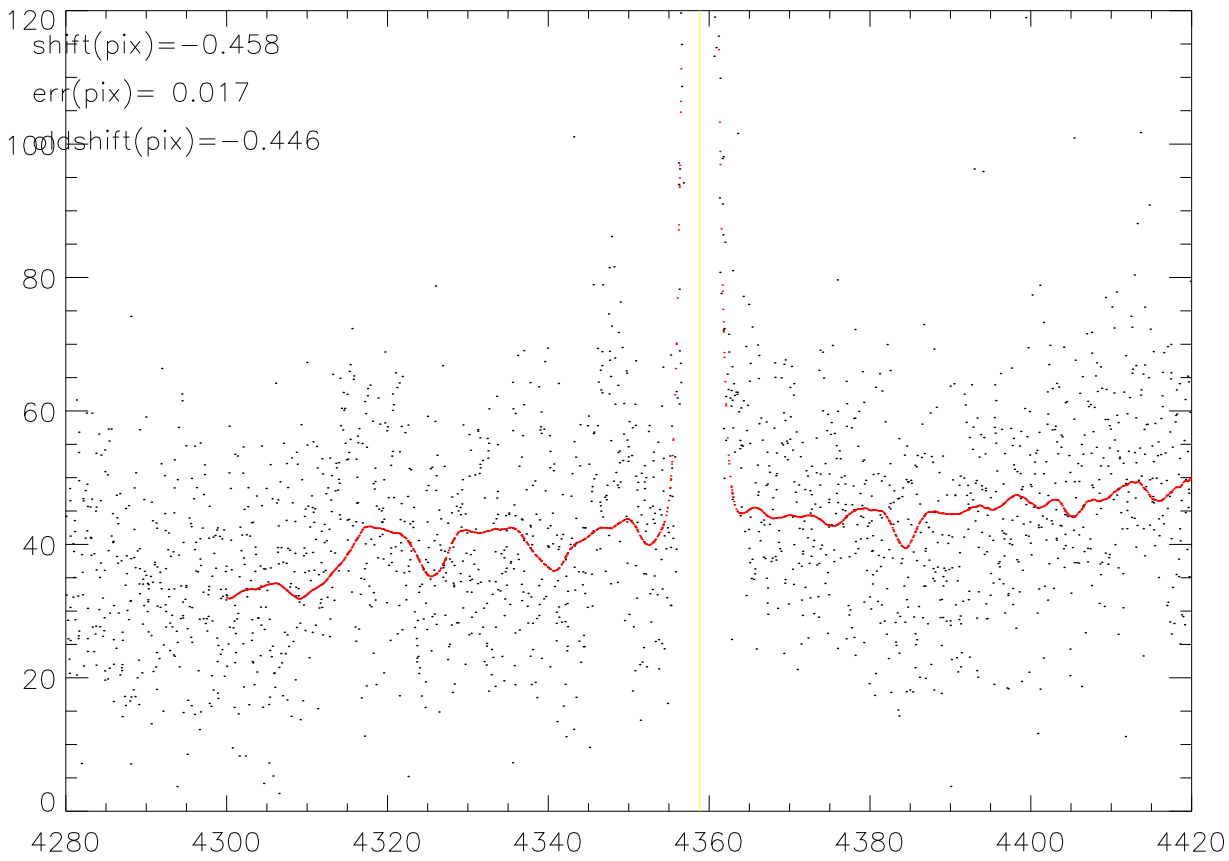

PLATE=0885 MJD=52379 Scattered Light on sdR-b2-00014592.fit
7.09
6.18
5.27
5.27
4.36
4.36
5.27
5.27
6.18
Y [pix]
X [pix]
0
500
1000
1500
2000

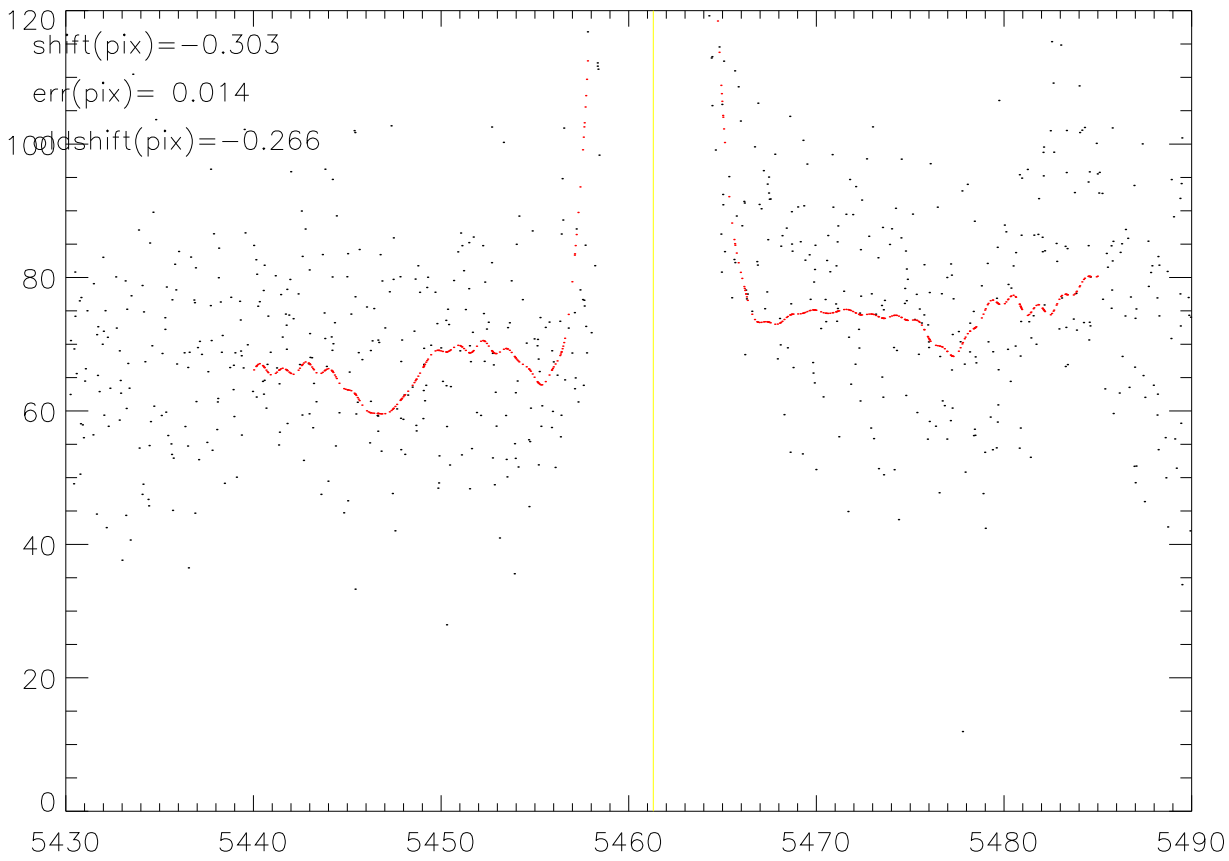

PLATE=0885 MJD=52379 Scattered Light on sdR-b2-00014592.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.443
Max value = 6.586
Sun Feb 24 13:24:56 2008

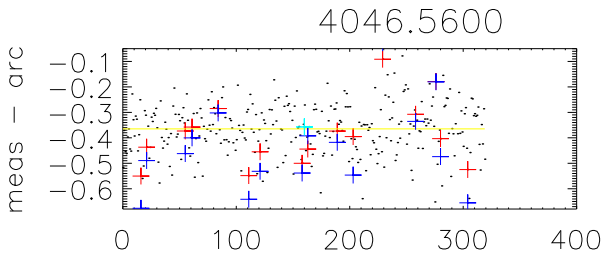

PLATE=0885 MJD=52379 Extraction chi^2 for sdR-b2-00014592.fit
BLACK = Final chisq extraction
BLUE = Initial scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

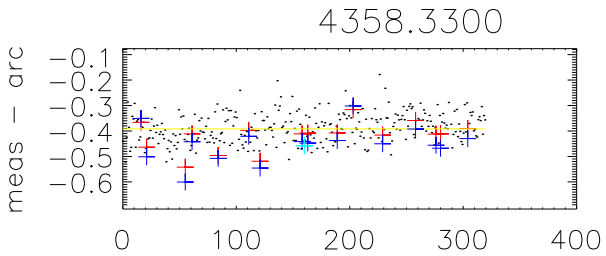

4046.5600
off: −0.43
sig: 0.031
4358.3300
off: −0.45
sig: 0.014
5460.9400
off: −0.27
sig: 0.011
5577.3390
off: −0.23
sig: 0.003
5889.9500
off: −0.18
sig: 0.008
5895.9240
off: −0.19
sig: 0.009

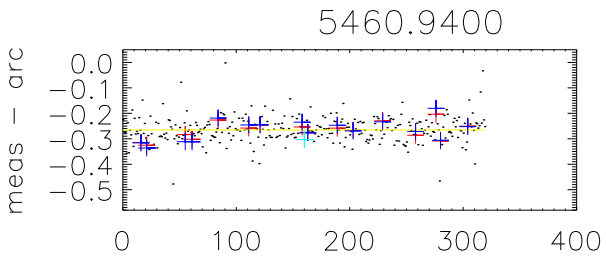

shift(pix)=−0.357
err(pix)= 0.041
oldshift(pix)=−0.434
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

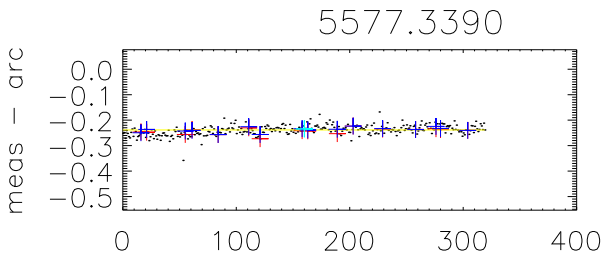

shift(pix)=−0.458
err(pix)= 0.017
oldshift(pix)=−0.446
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

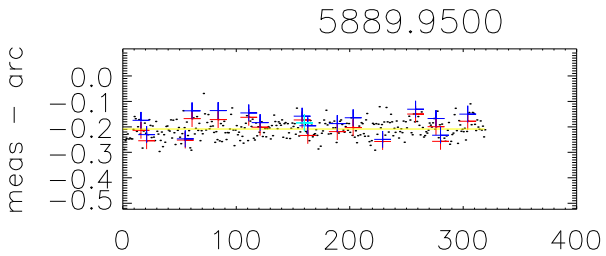

shift(pix)=−0.303
err(pix)= 0.014
oldshift(pix)=−0.266
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

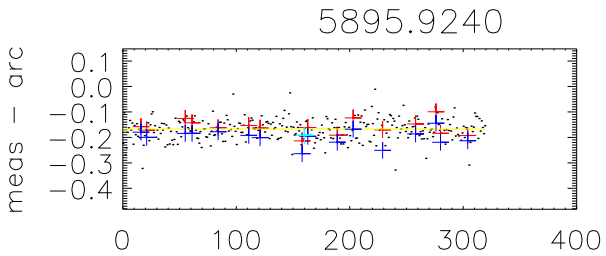

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

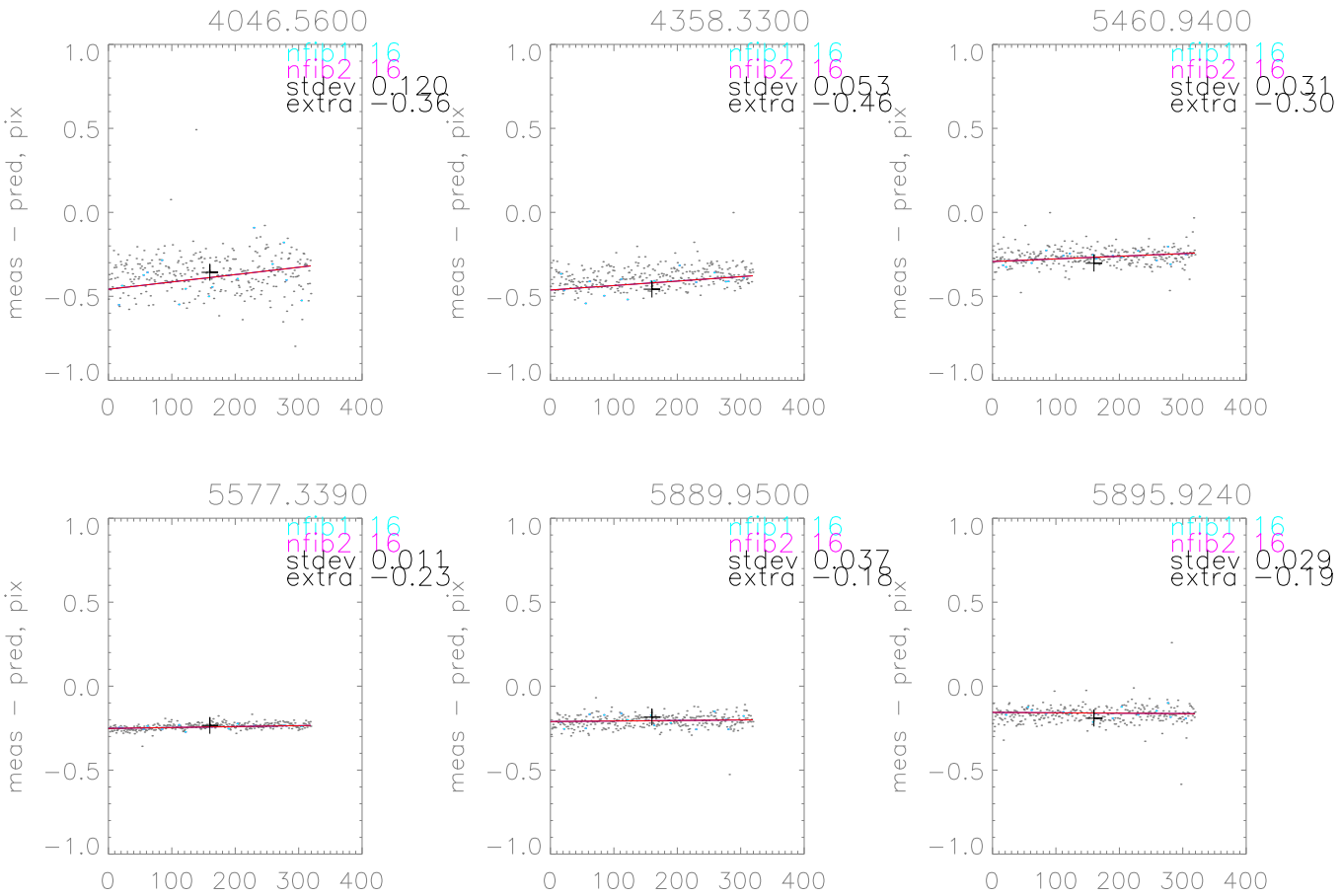

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

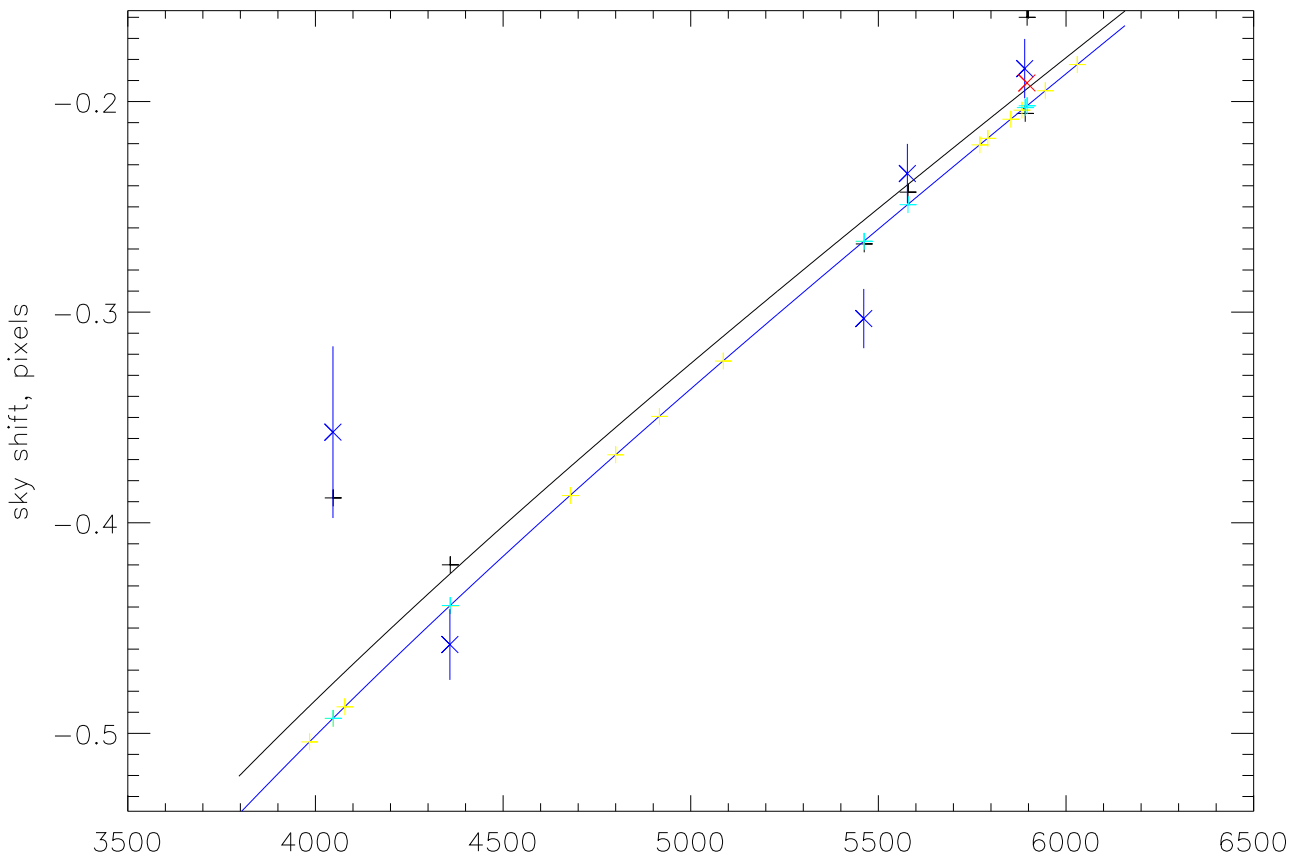

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

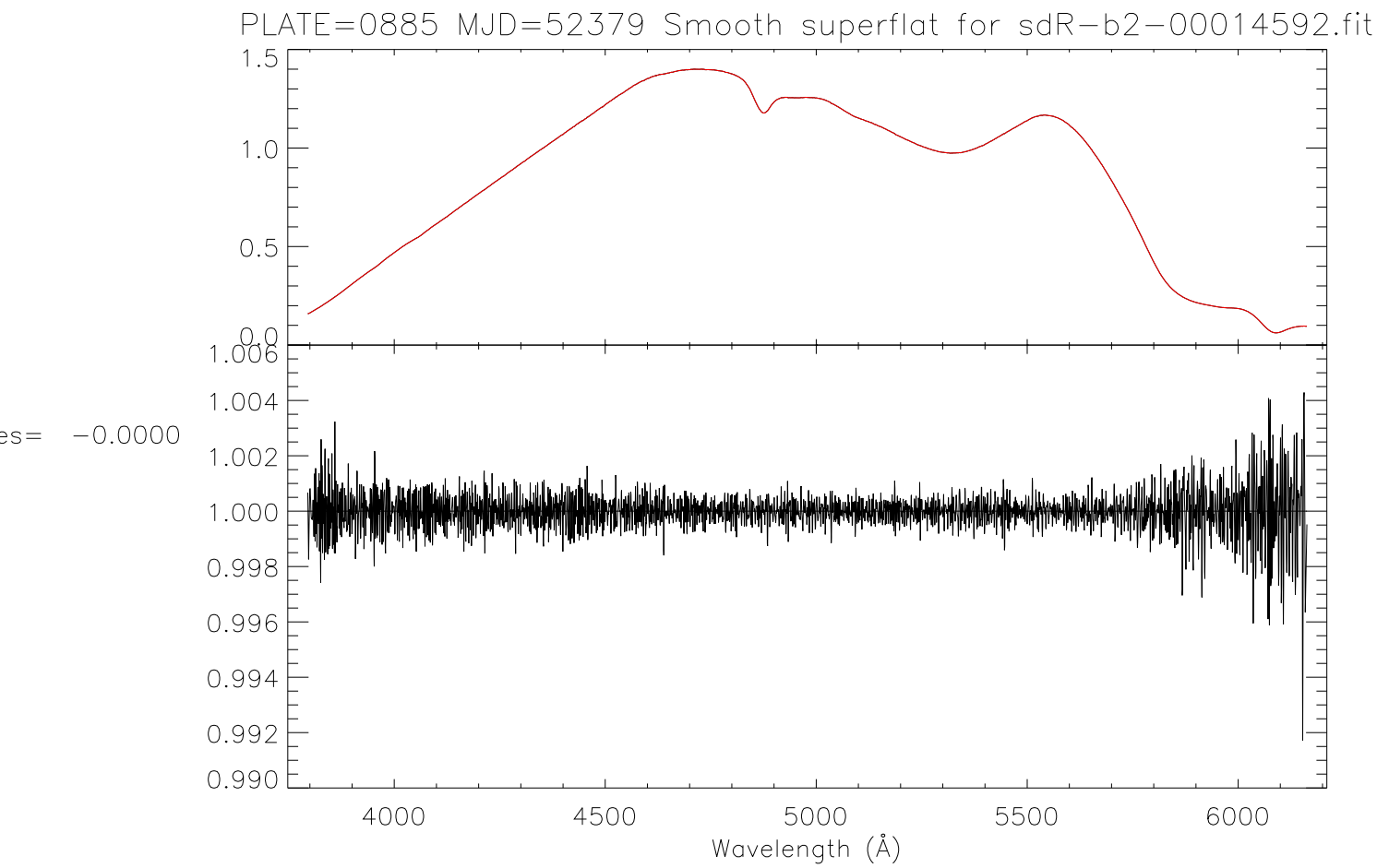

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

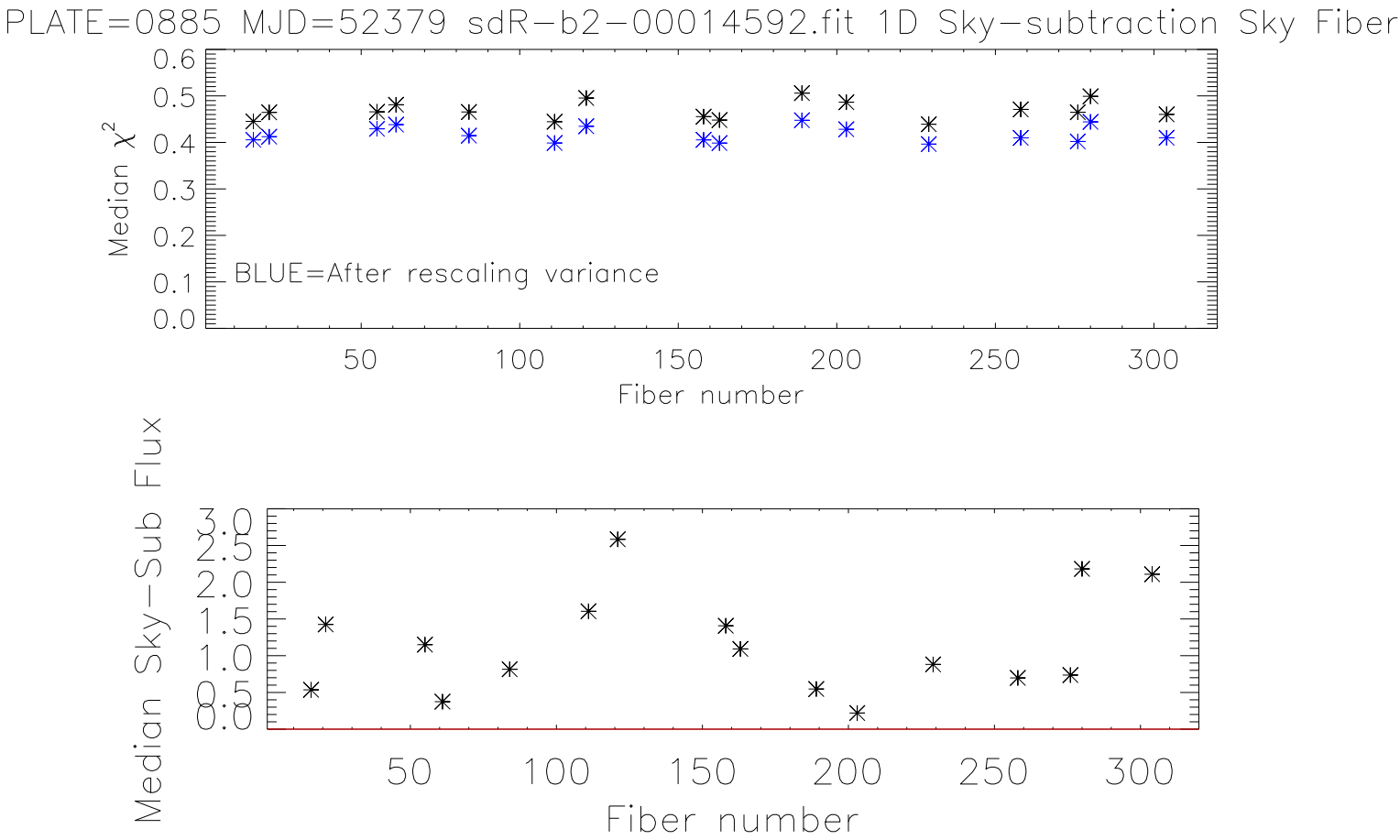

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

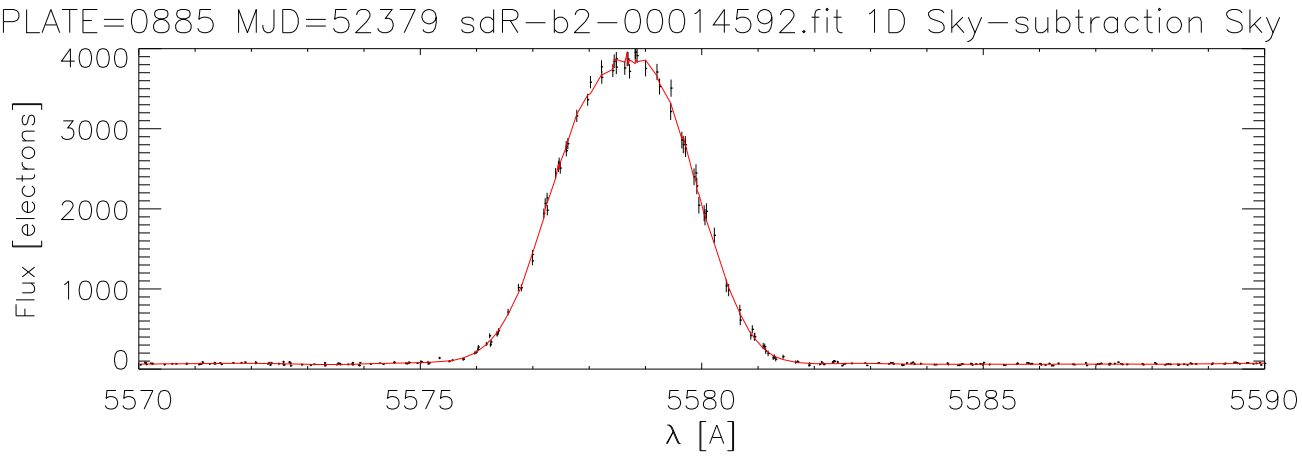

4046.5600
nfib1 16
nfib2 16
stdev 0.120
extra −0.36
4358.3300
nfib1 16
nfib2 16
stdev 0.053
extra −0.46
5460.9400
nfib1 16
nfib2 16
stdev 0.031
extra −0.30
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra −0.23
5889.9500
nfib1 16
nfib2 16
stdev 0.037
extra −0.18
5895.9240
nfib1 16
nfib2 16
stdev 0.029
extra −0.19
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

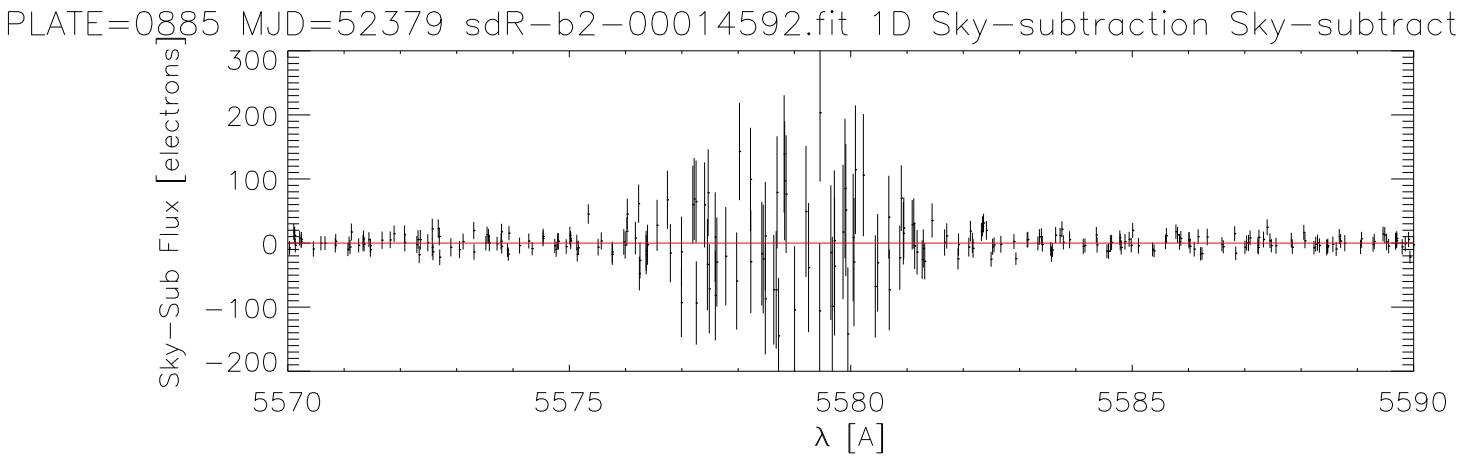

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
3500
4000
4500
5000
5500
6000
6500

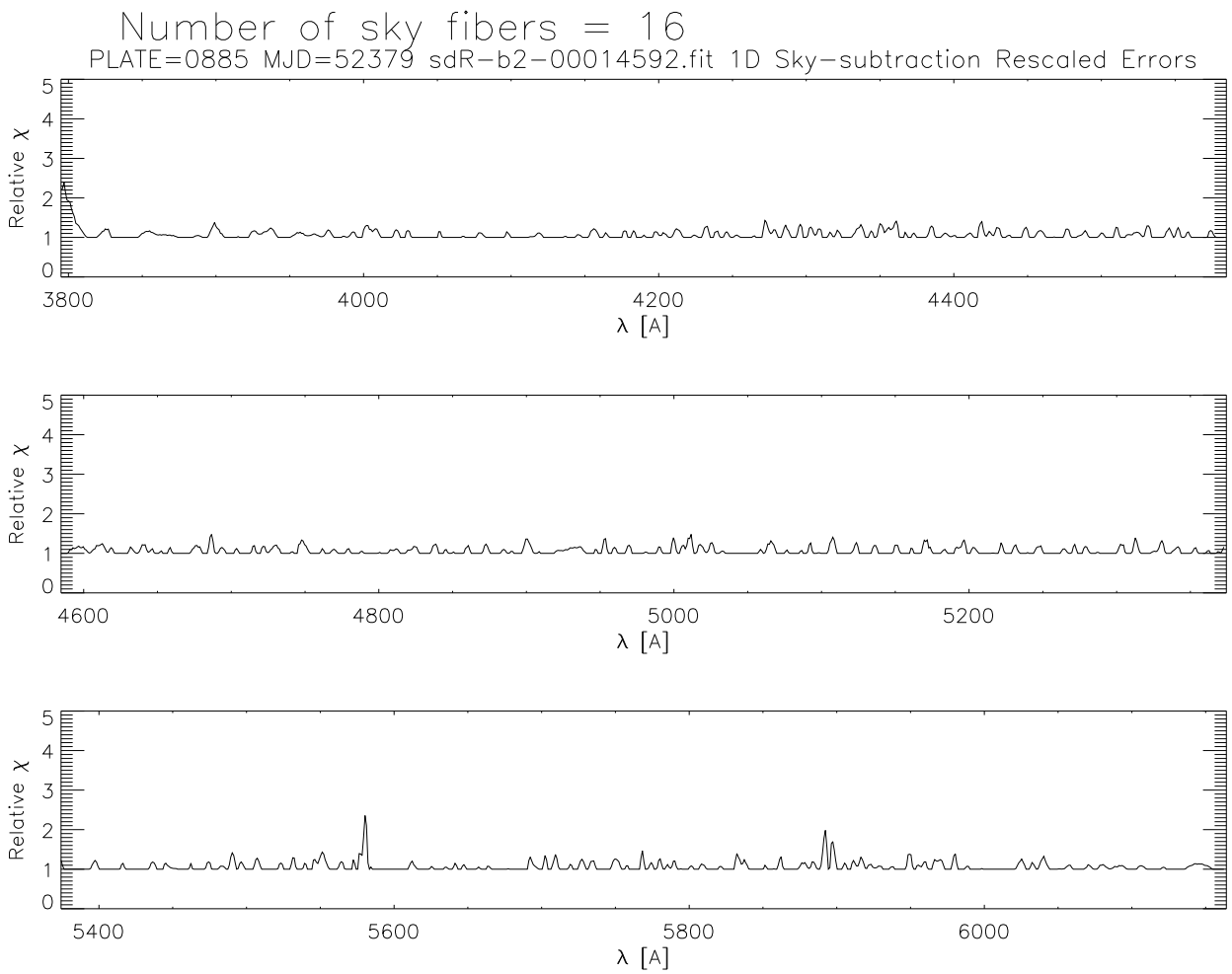

PLATE=0885 MJD=52379 Smooth superflat for sdR-b2-00014592.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

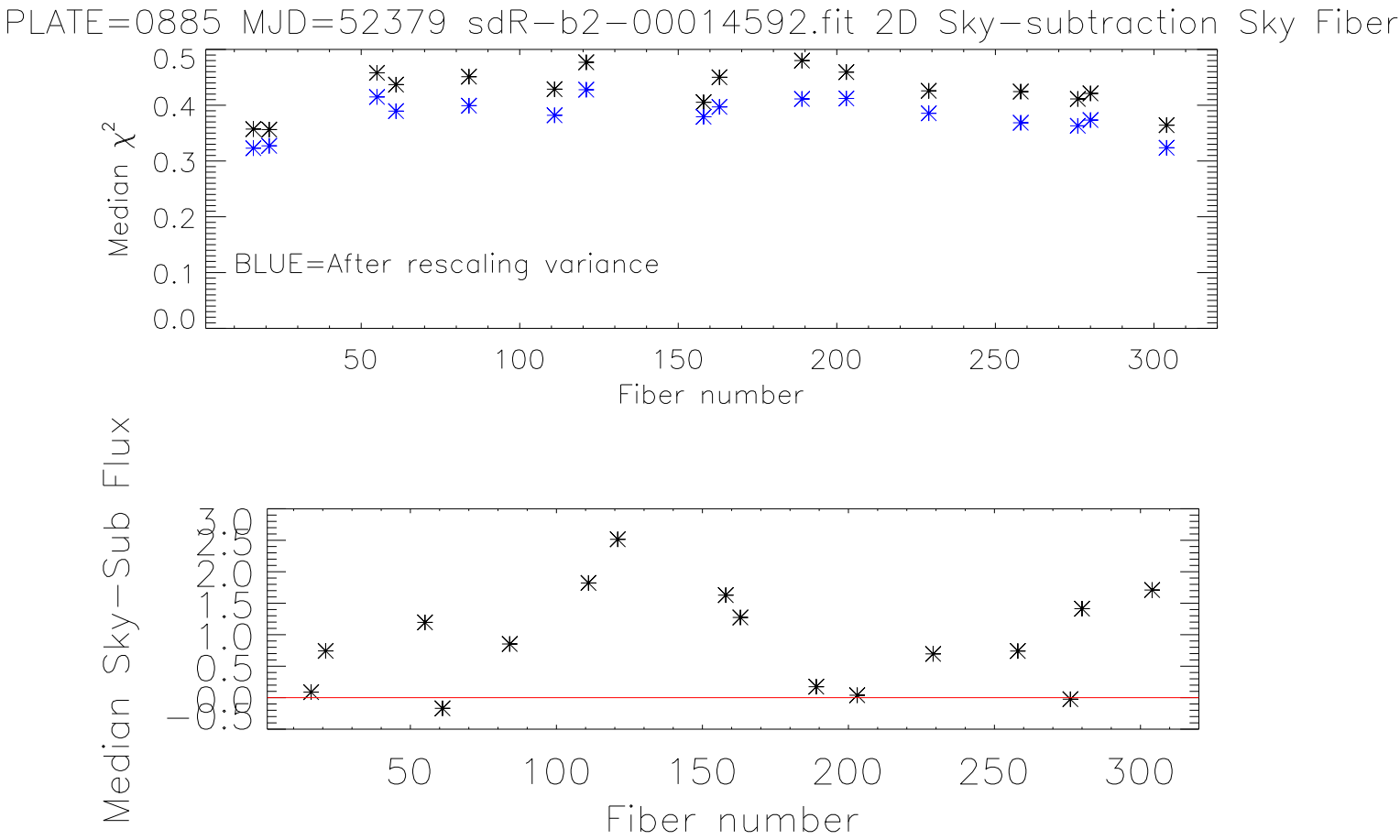
es= −0.0000

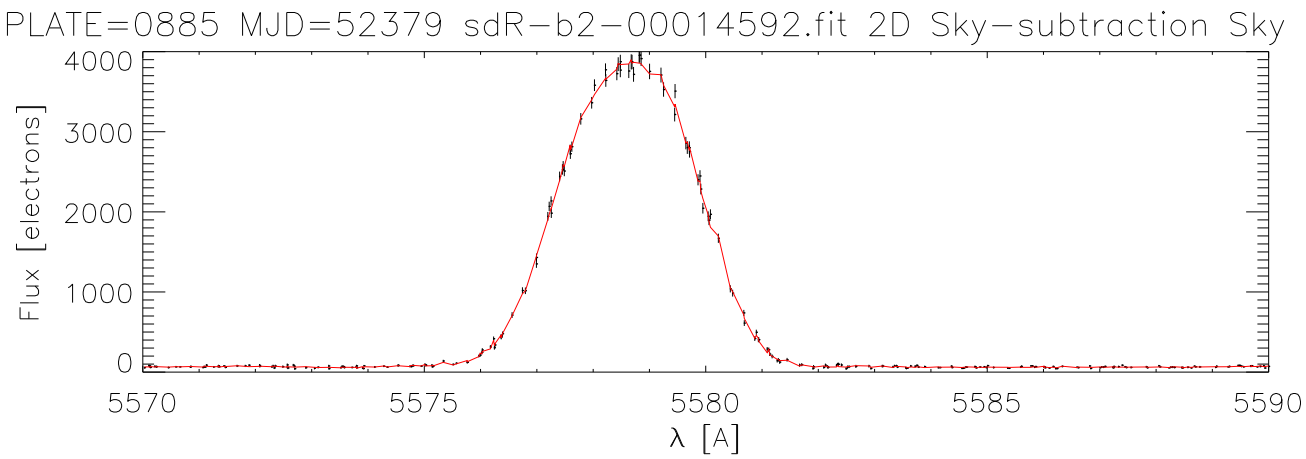

PLATE=0885 MJD=52379 sdR-b2-00014592.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

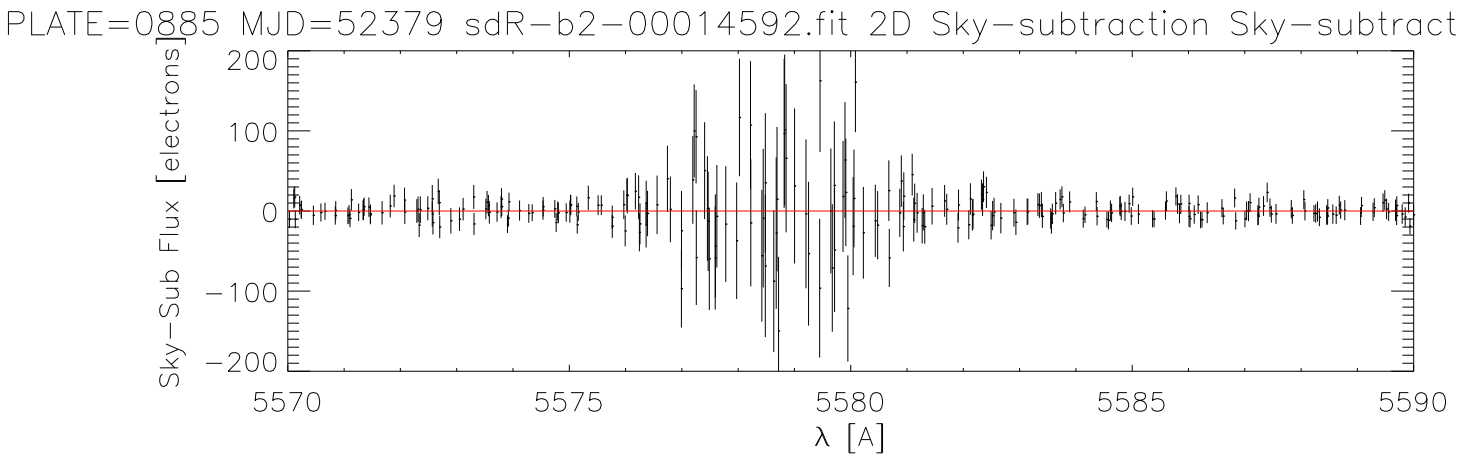

PLATE=0885 MJD=52379 sdR-b2-00014592.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

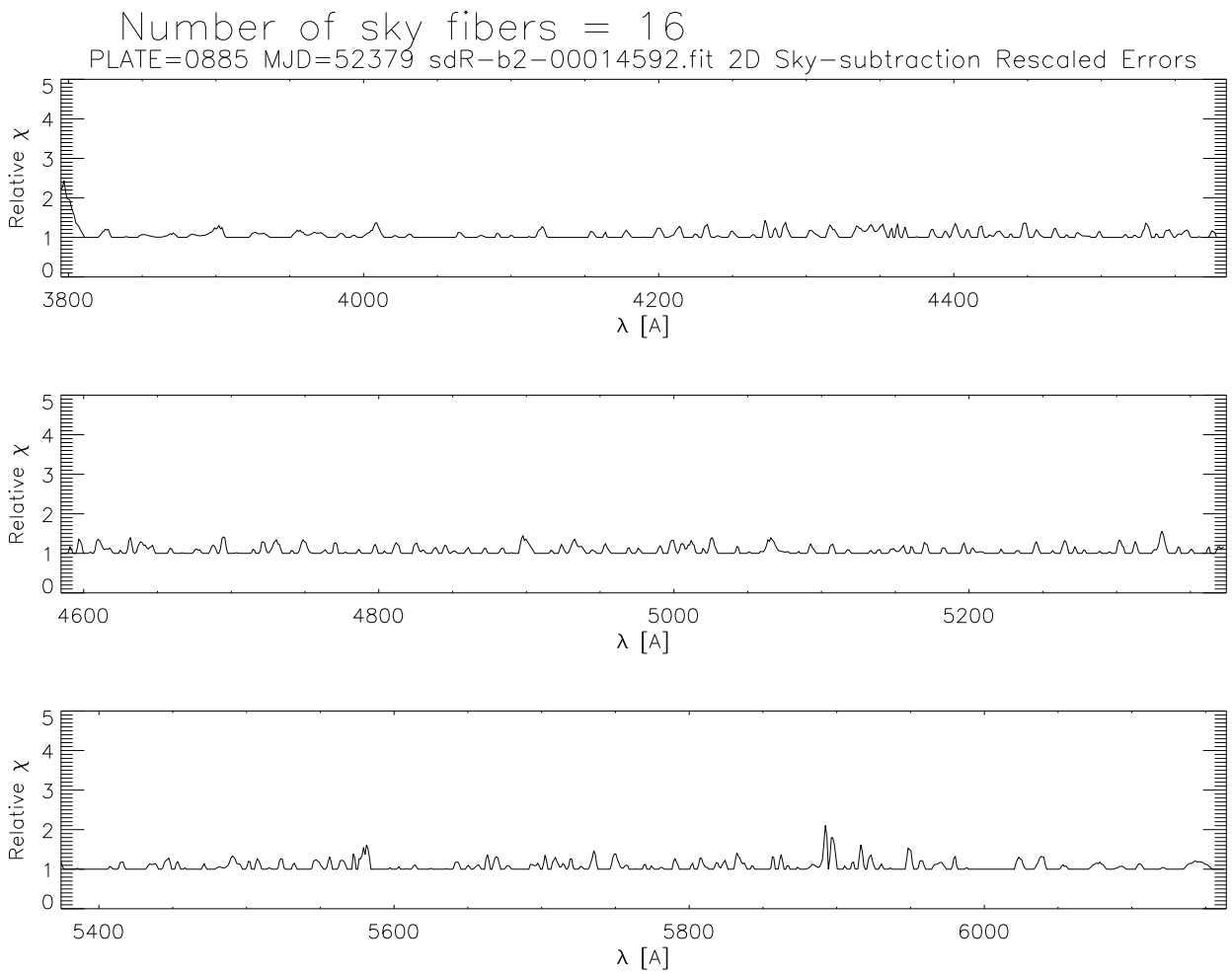

PLATE=0885 MJD=52379 sdR-b2-00014592.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

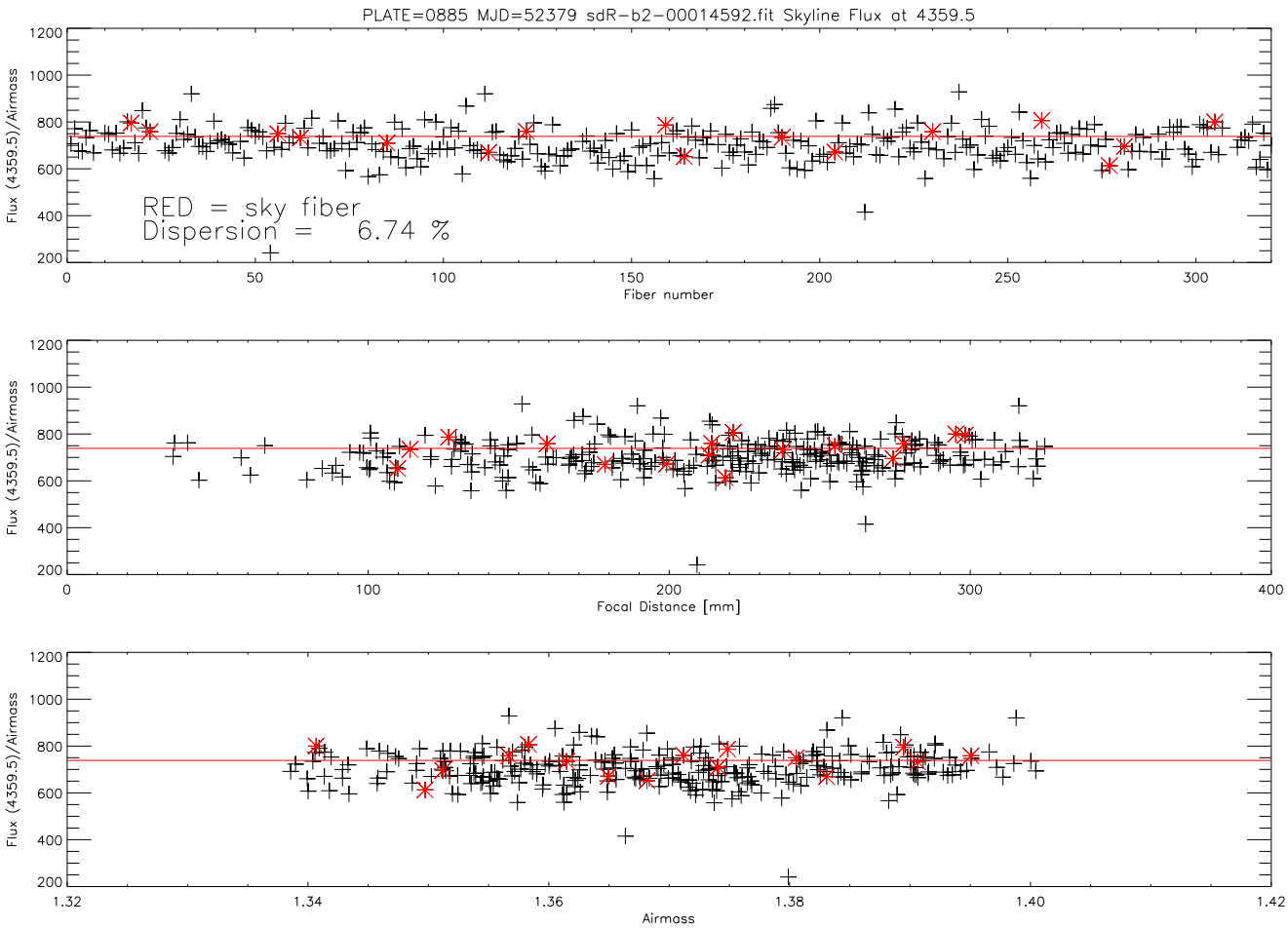

Number of sky fibers = 16
PLATE=0885 MJD=52379 sdR-b2-00014592.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

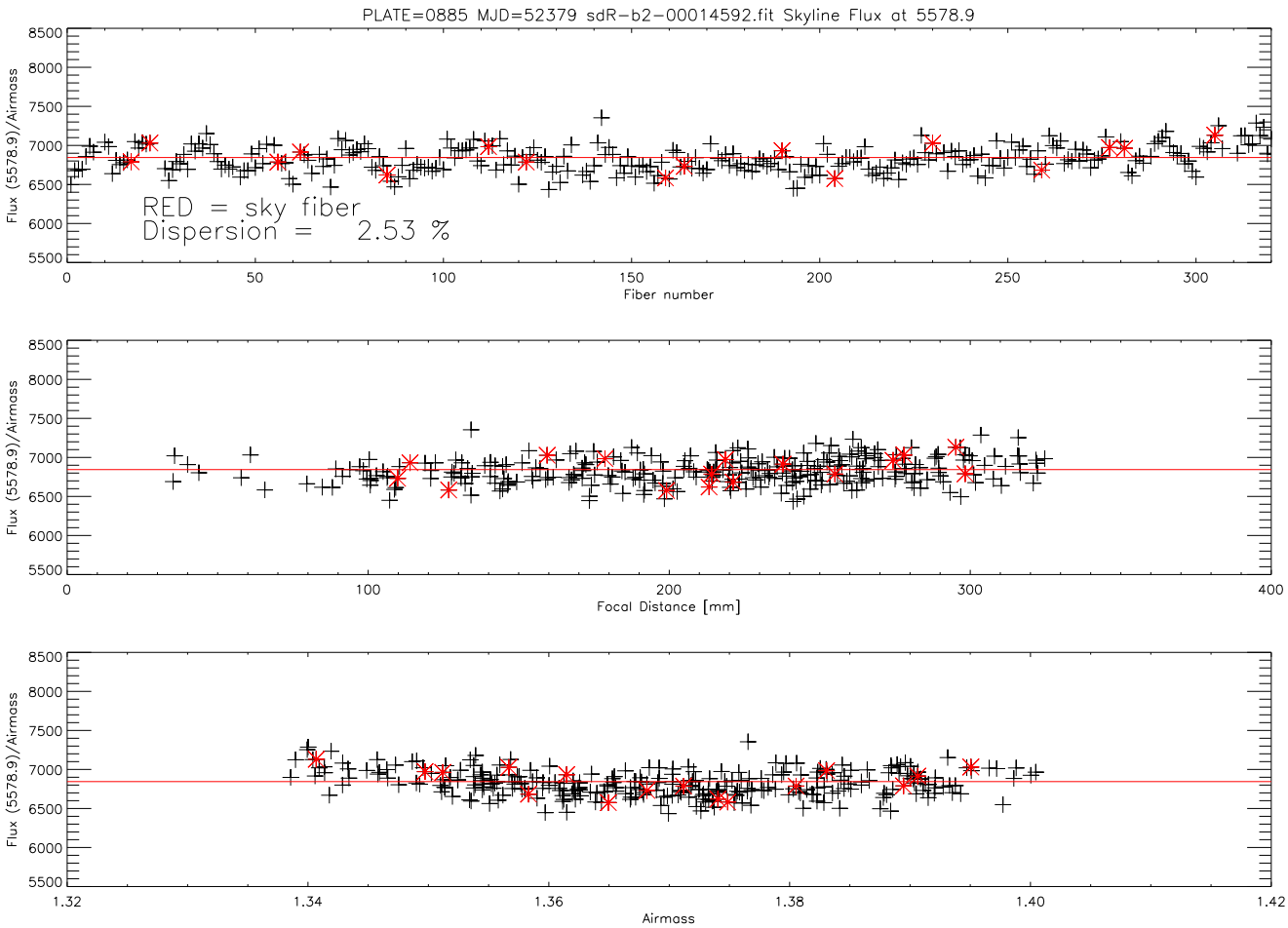

PLATE=0885 MJD=52379 sdR-b2-00014592.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

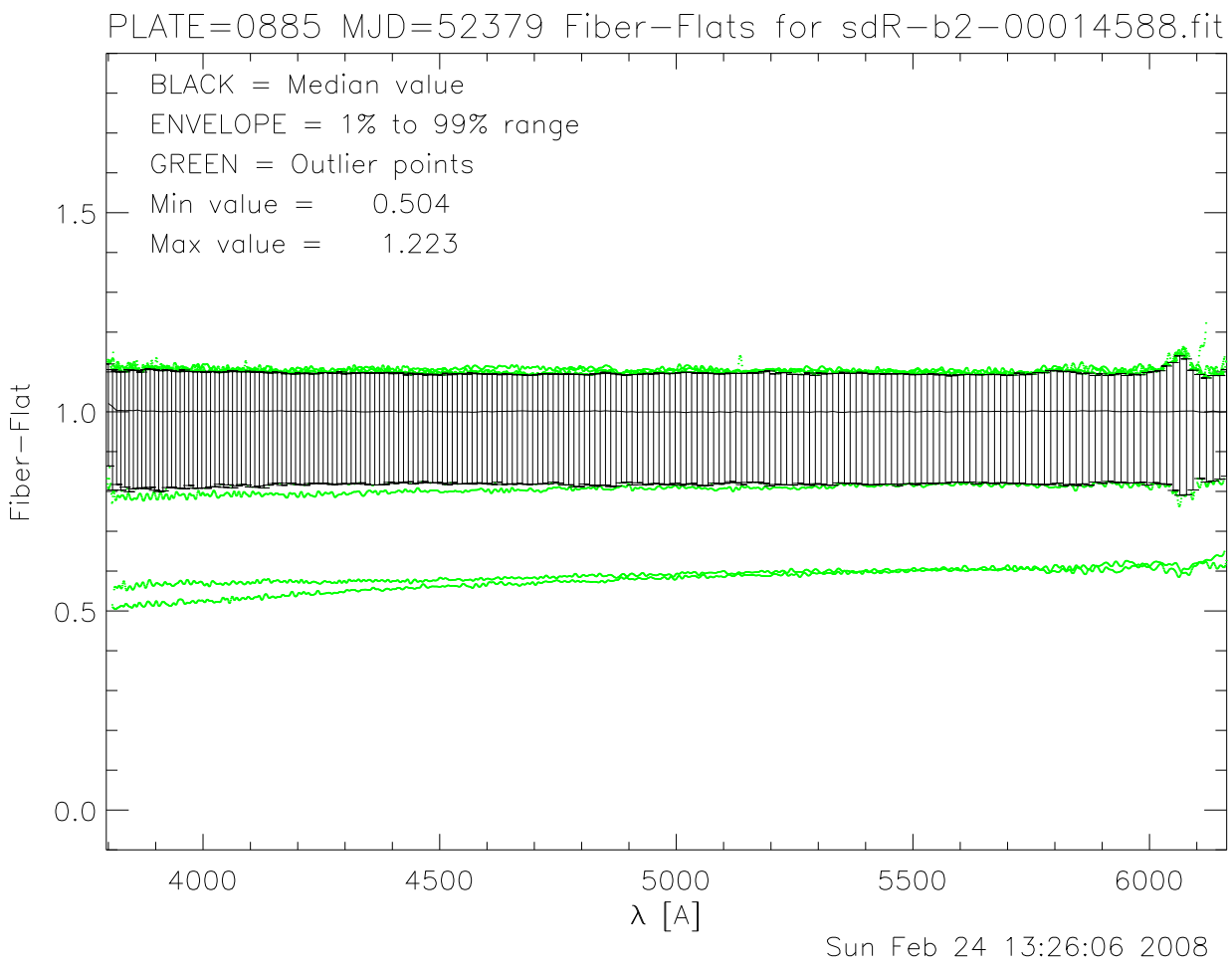

PLATE=0885 MJD=52379 sdR-b2-00014592.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

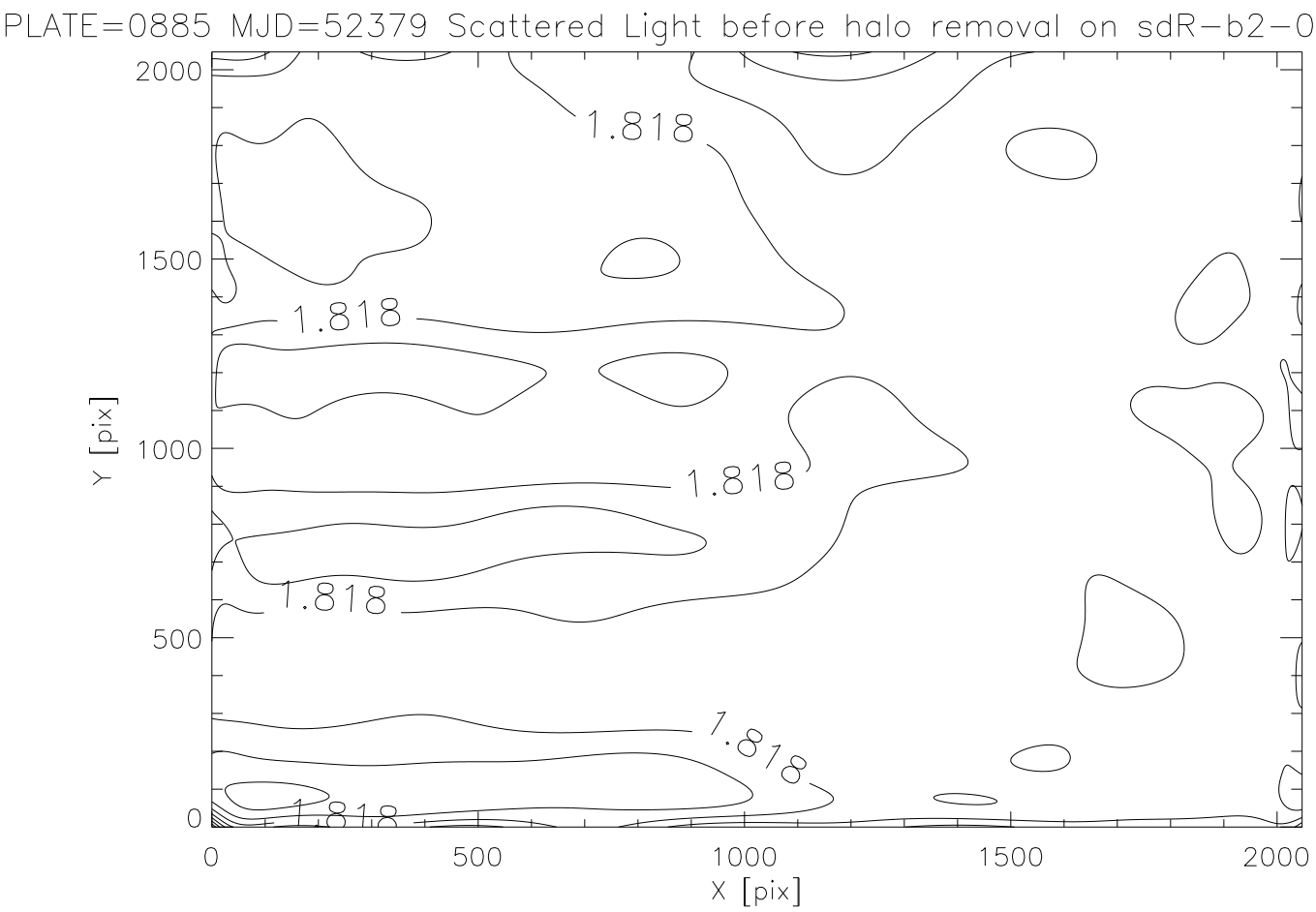

PLATE=0885 MJD=52379 sdR-b2-00014592.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

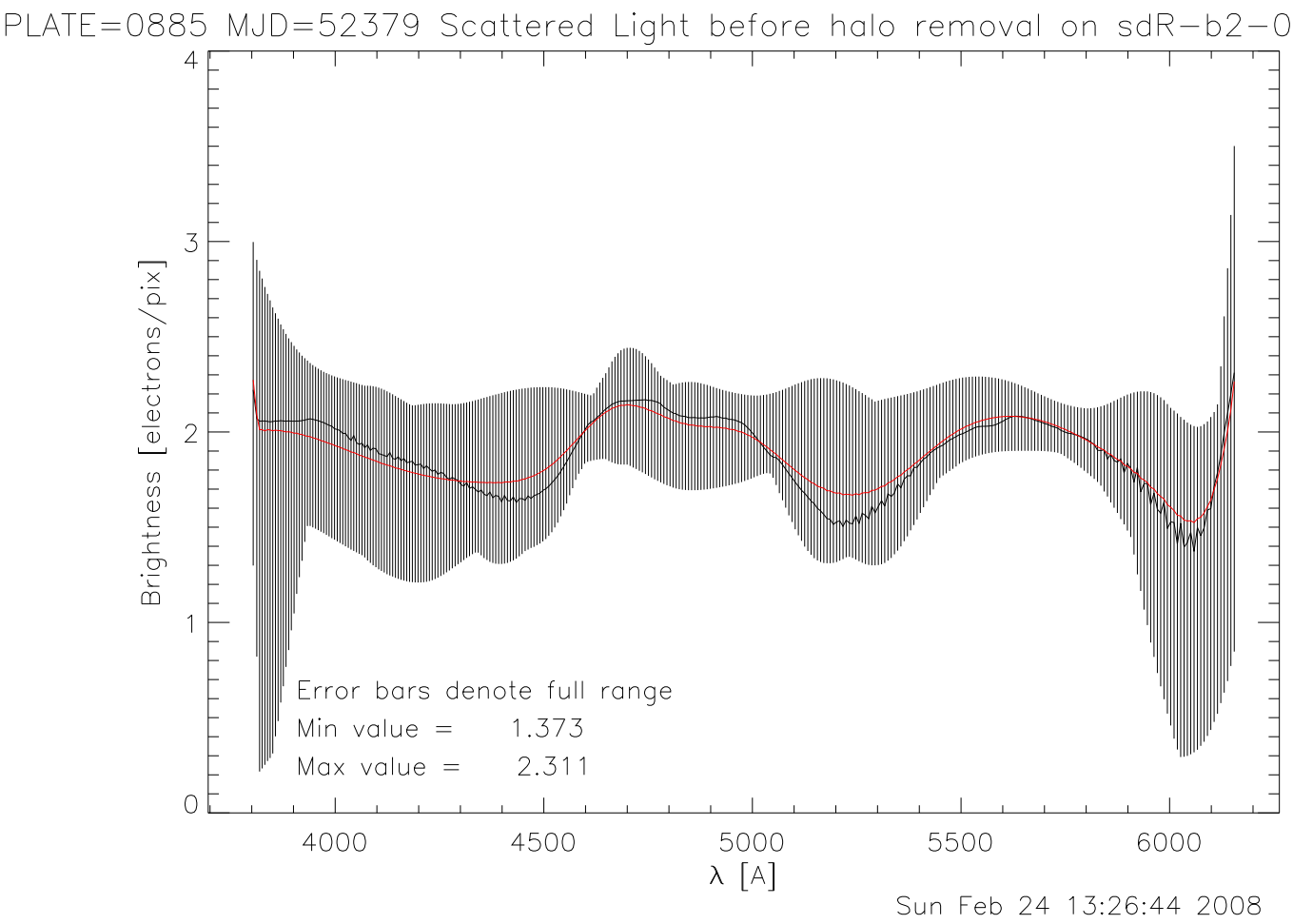

Number of sky fibers = 16
PLATE=0885 MJD=52379 sdR-b2-00014592.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

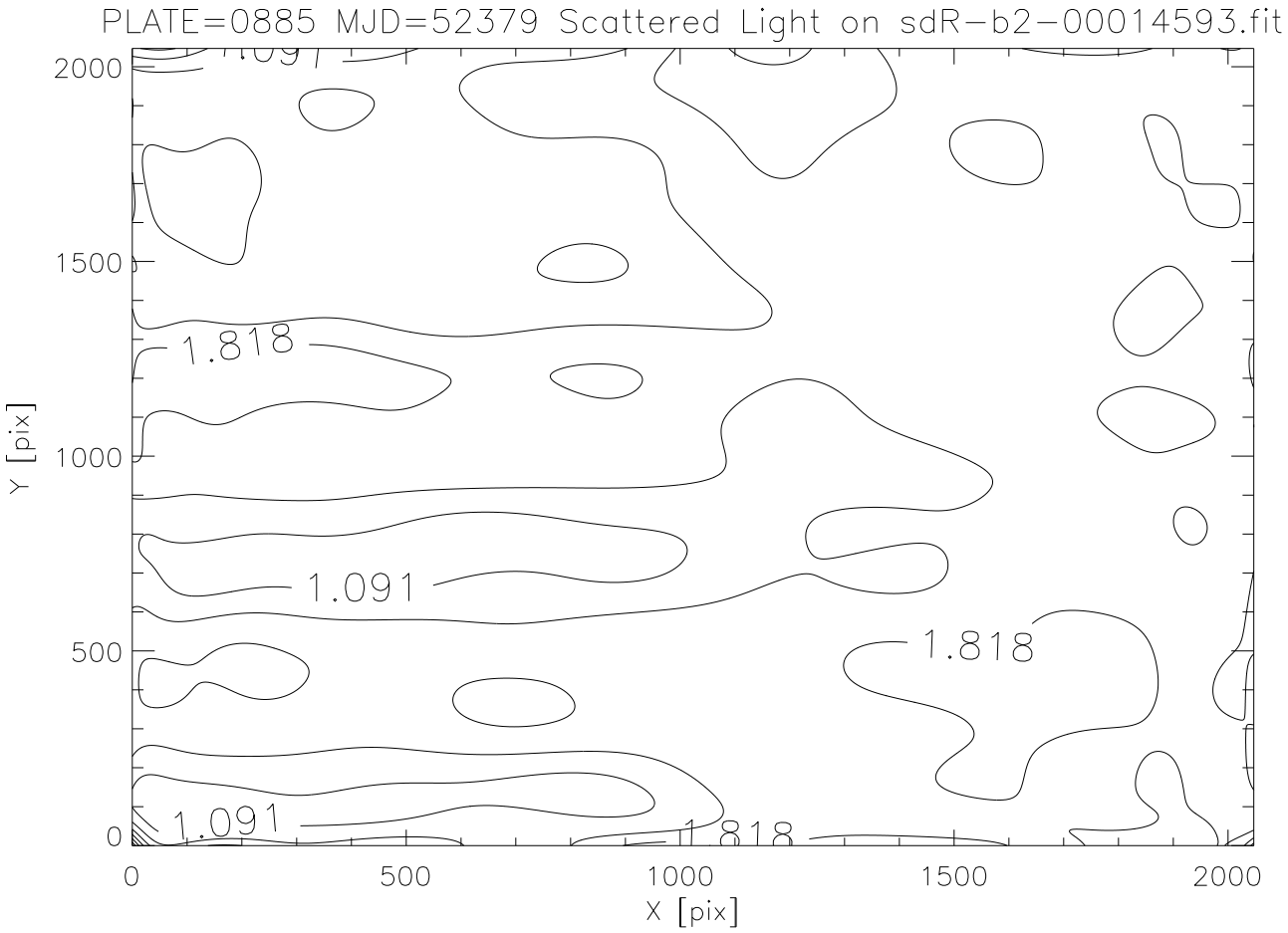

PLATE=0885 MJD=52379 sdR-b2-00014592.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.74 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

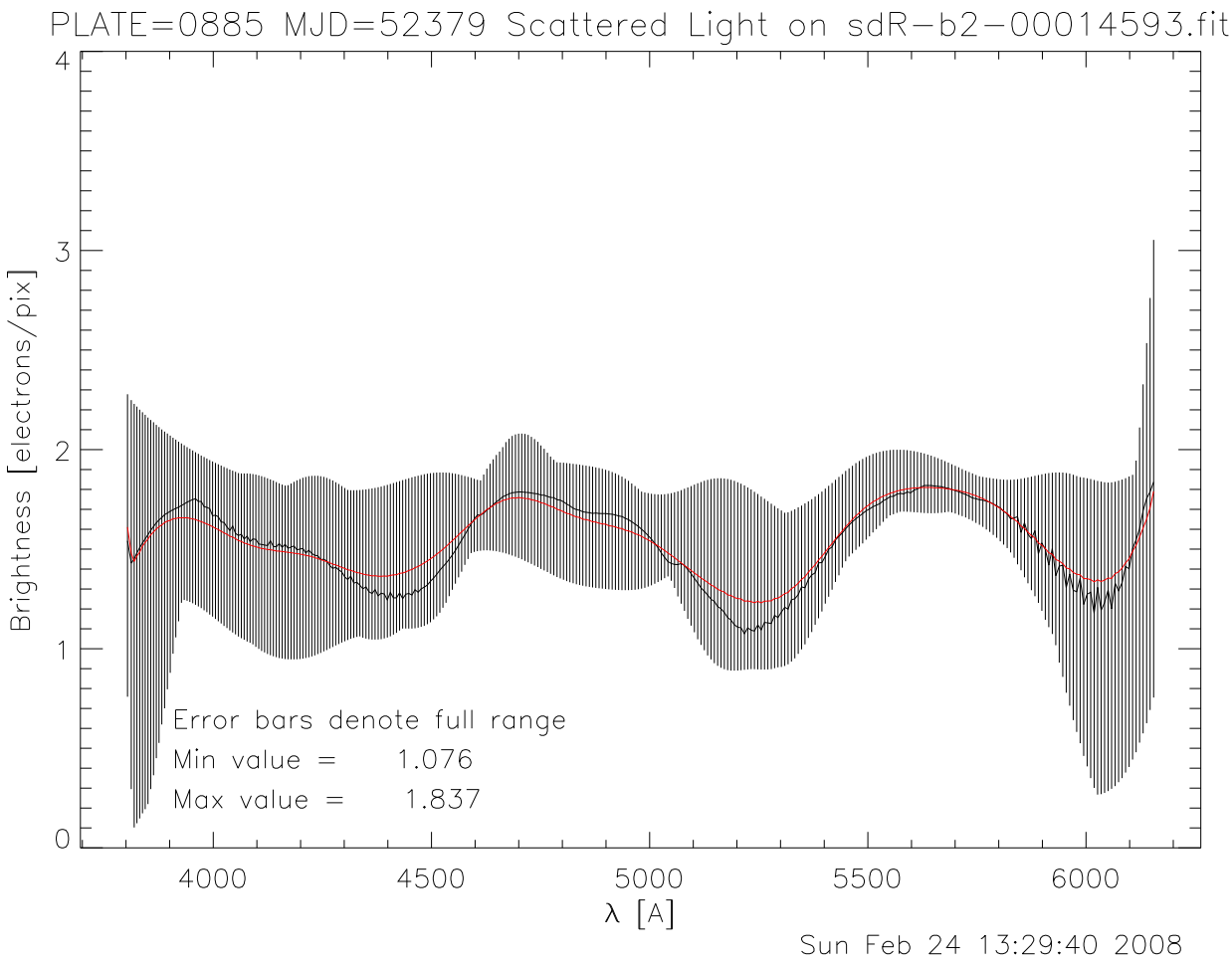

PLATE=0885 MJD=52379 sdR-b2-00014592.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.53 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

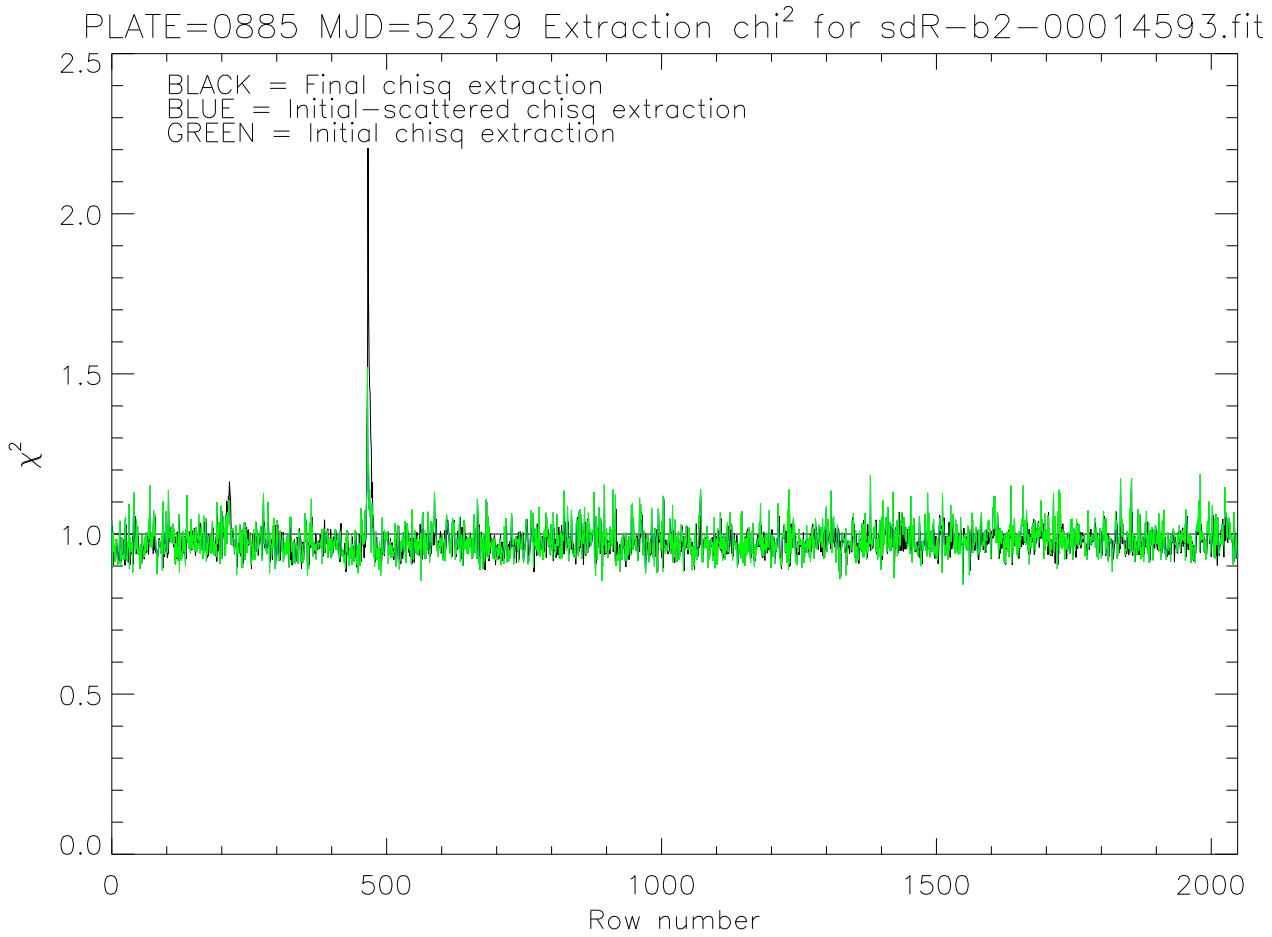

PLATE=0885 MJD=52379 Fiber-Flats for sdR-b2-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.504
Max value = 1.223
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:26:06 2008

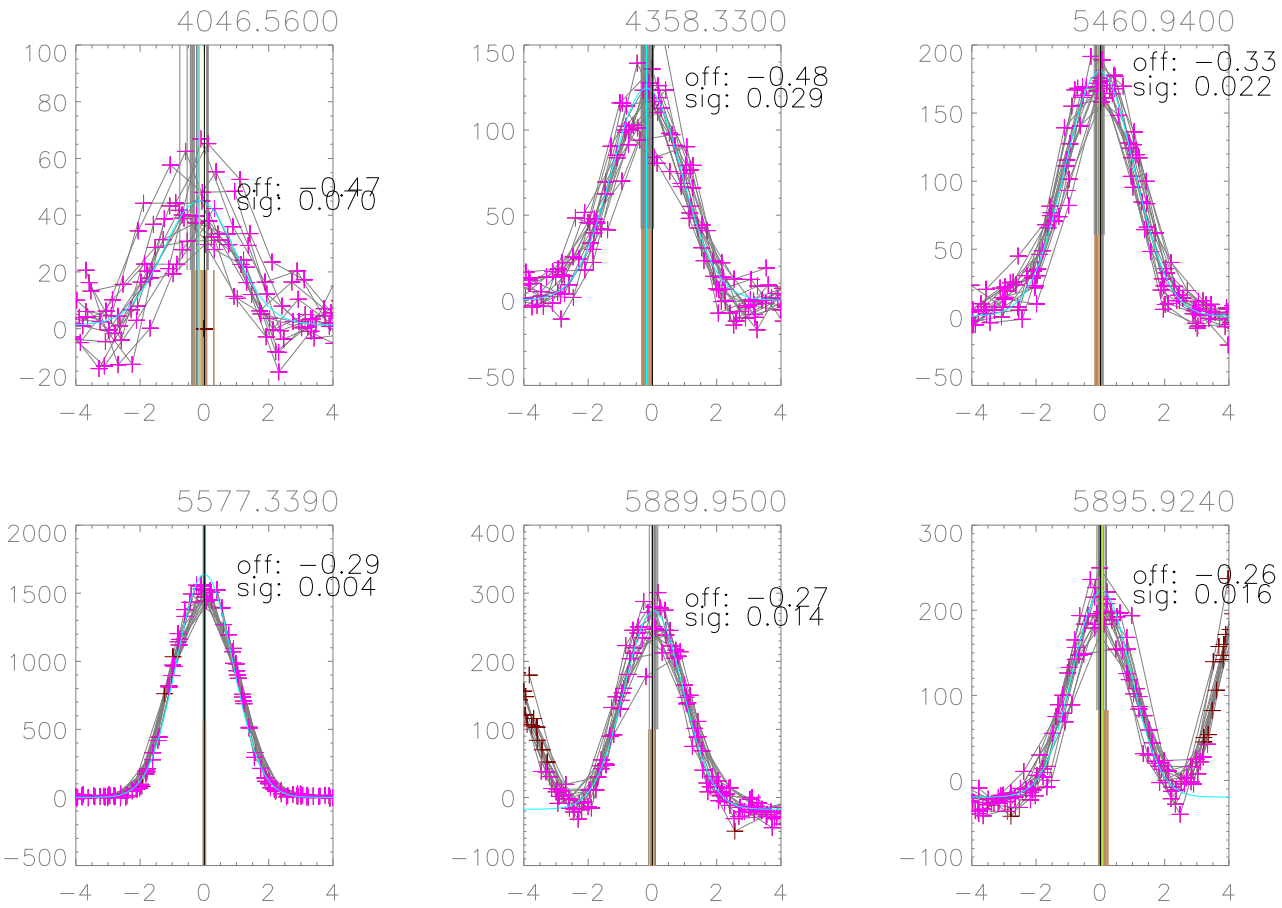

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b2-00014593.f
1.818
1.818
1.818
1.818
1.818
1.818
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

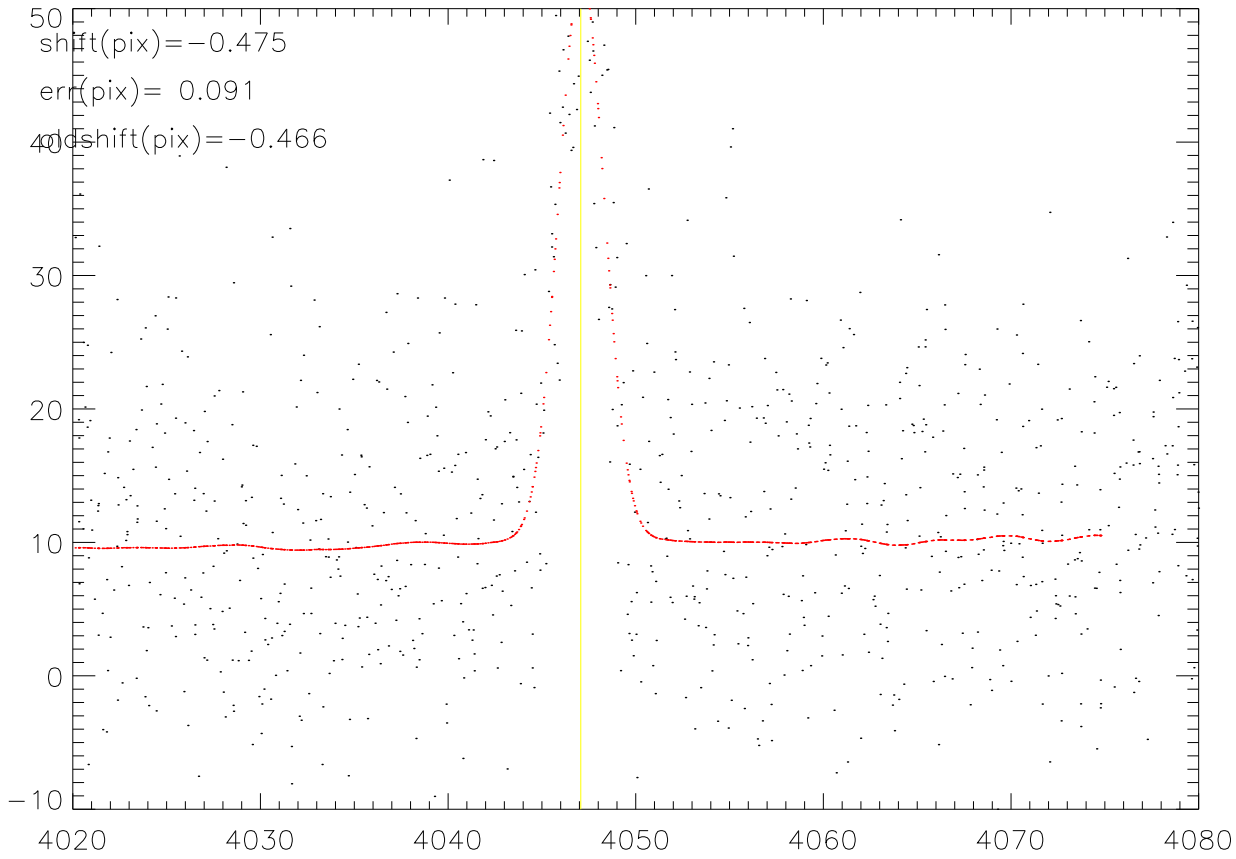

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-b2-00014593.f
Brightness [electrons/pix]
0
1
2
3
4
Error bars denote full range
Min value = 1.373
Max value = 2.311
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:26:44 2008

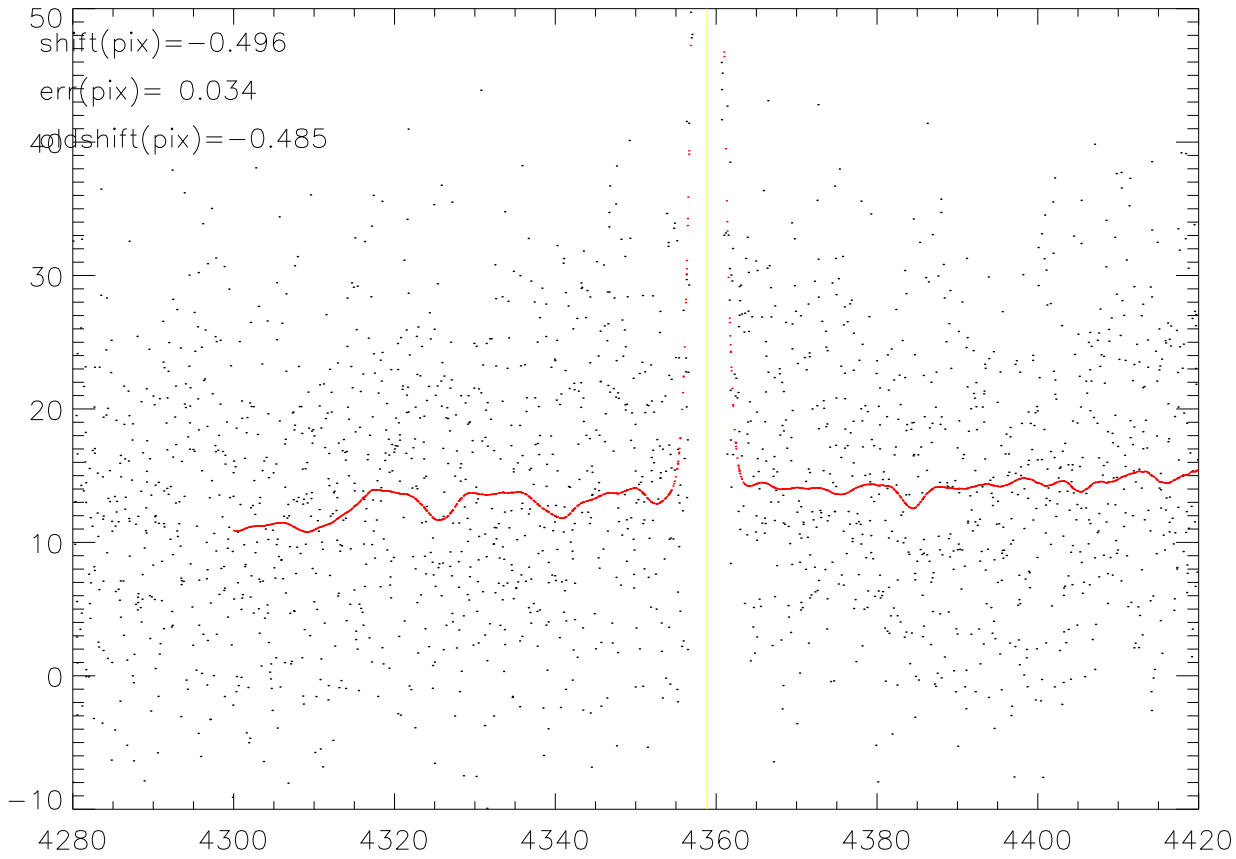

PLATE=0885 MJD=52379 Scattered Light on sdR-b2-00014593.fit
2000
1500
1000
500
0
Y [pix]
1.818
1.091
1.818
1.091
1.818
0
500
1000
1500
2000
X [pix]

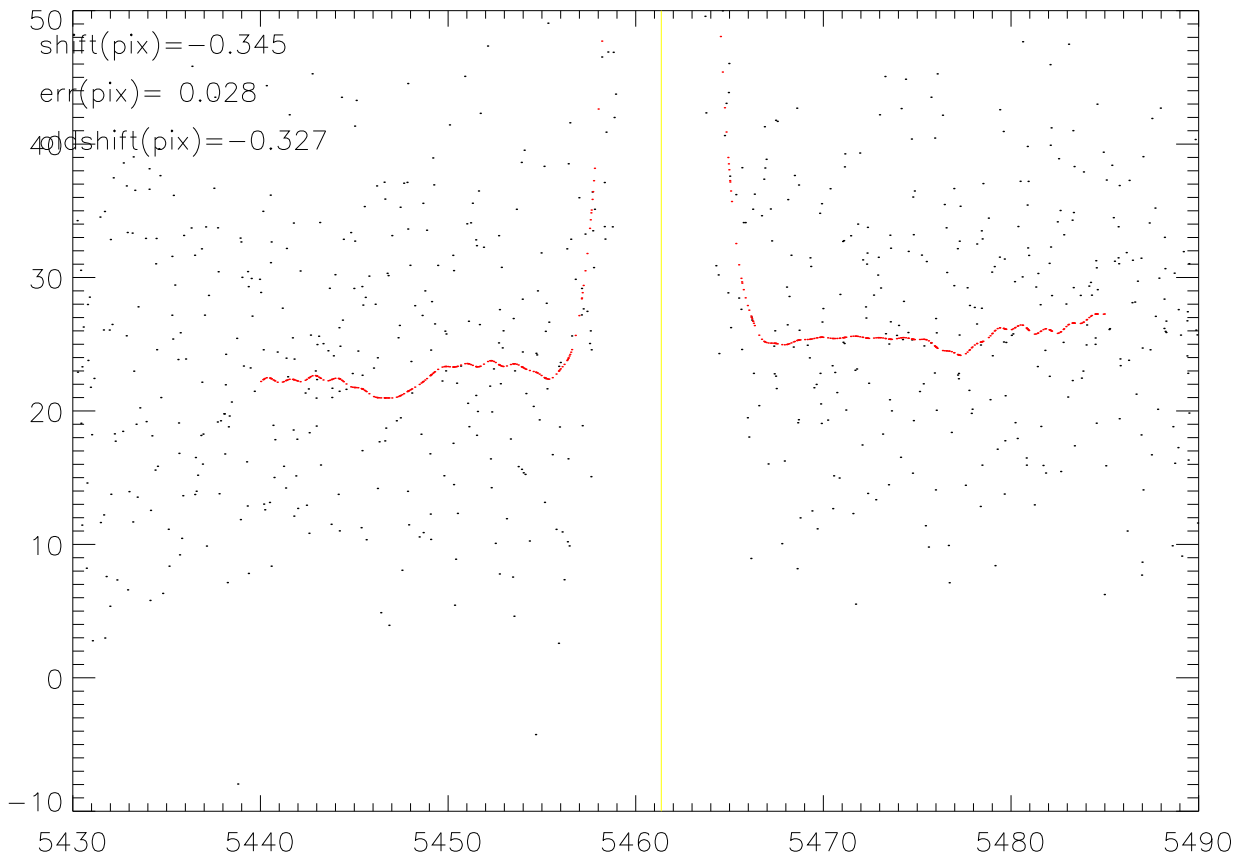

PLATE=0885 MJD=52379 Scattered Light on sdR-b2-00014593.fit
Brightness [electrons/pix]
0
1
2
3
4
Error bars denote full range
Min value = 1.076
Max value = 1.837
4000
4500
5000
5500
6000
λ [A]
Sun Feb 24 13:29:40 2008

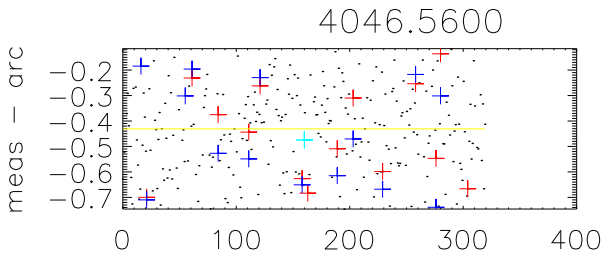

PLATE=0885 MJD=52379 Extraction chi^2 for sdR-b2-00014593.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

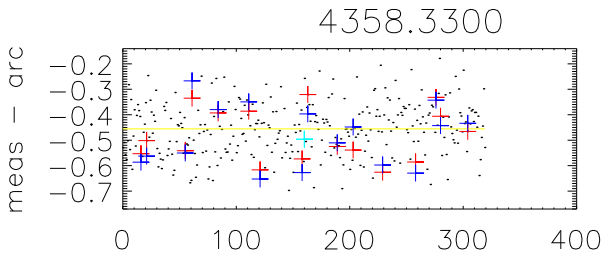

4046.5600
off: −0.47
sig: 0.070
4358.3300
off: −0.48
sig: 0.029
5460.9400
off: −0.33
sig: 0.022
5577.3390
off: −0.29
sig: 0.004
5889.9500
off: −0.27
sig: 0.014
5895.9240
off: −0.26
sig: 0.016

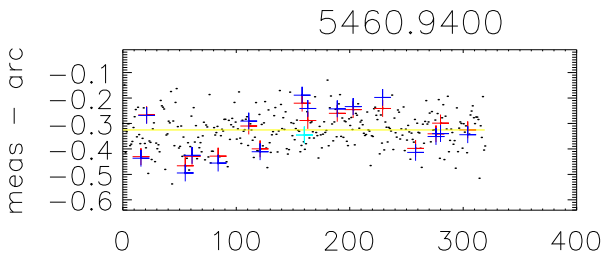

shift(pix)=−0.475
err(pix)= 0.091
oldshift(pix)=−0.466
50
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

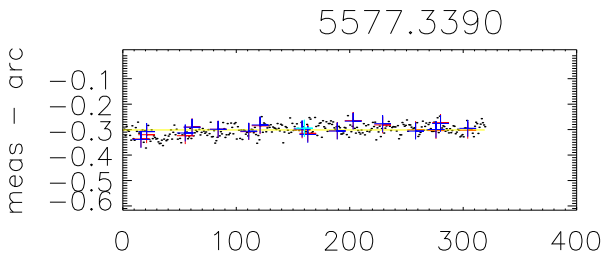

shift(pix)=−0.496
err(pix)= 0.034
oldshift(pix)=−0.485
50
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

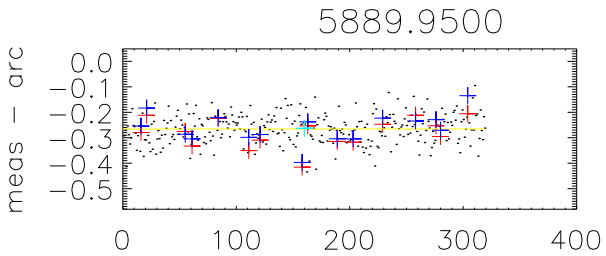

shift(pix)=−0.345
err(pix)= 0.028
addshift(pix)=−0.327
50
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

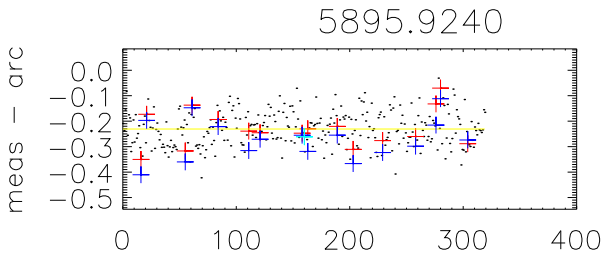

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

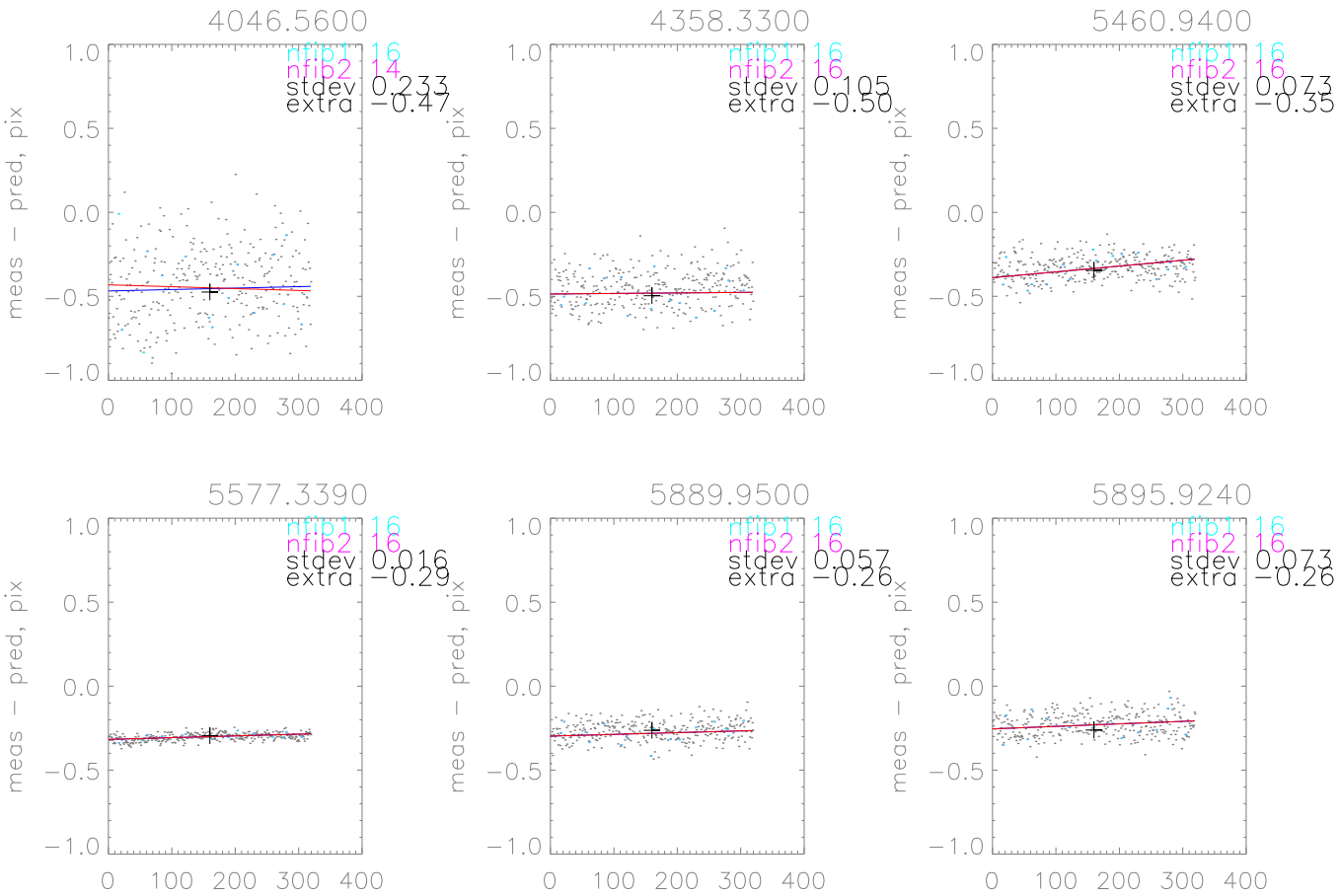

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

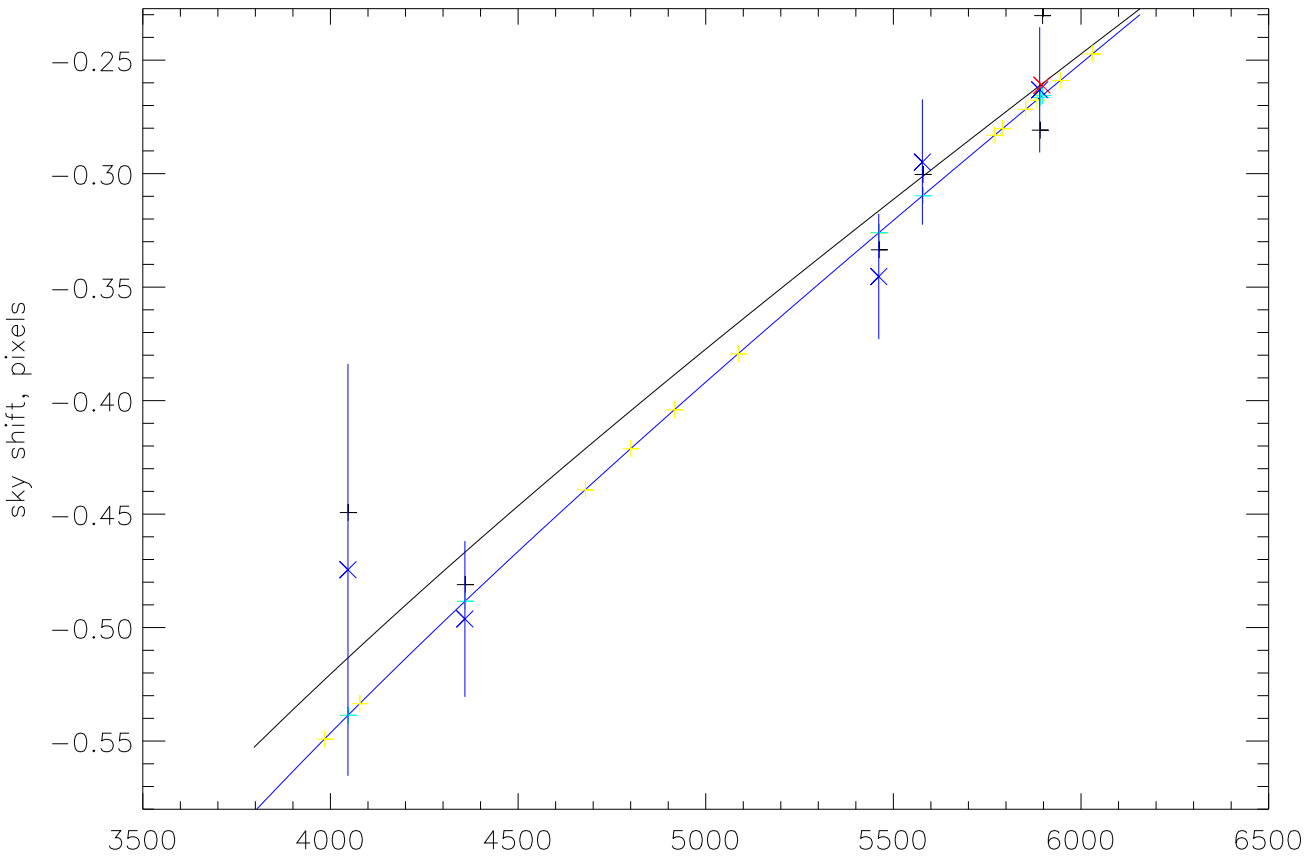

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

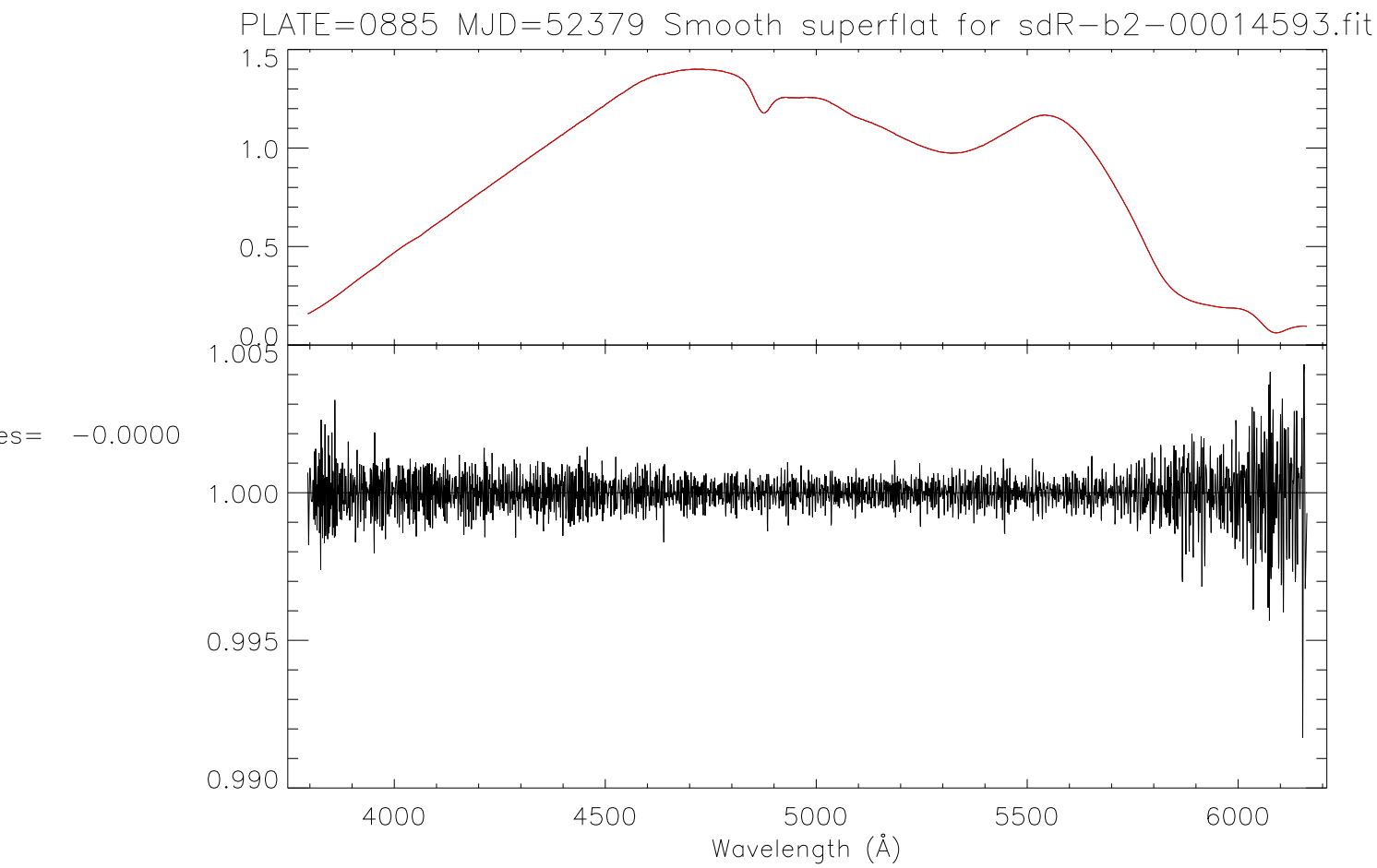

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

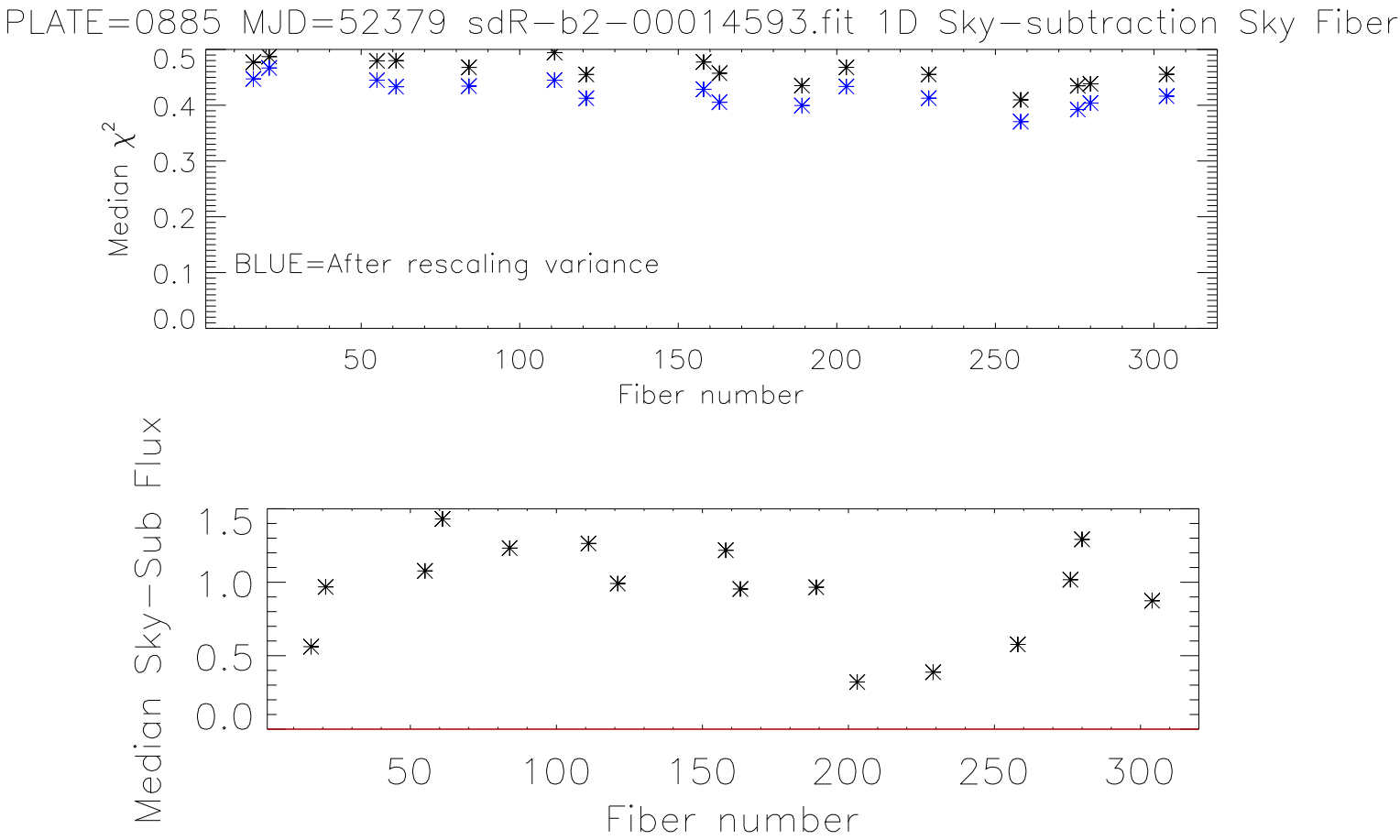

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

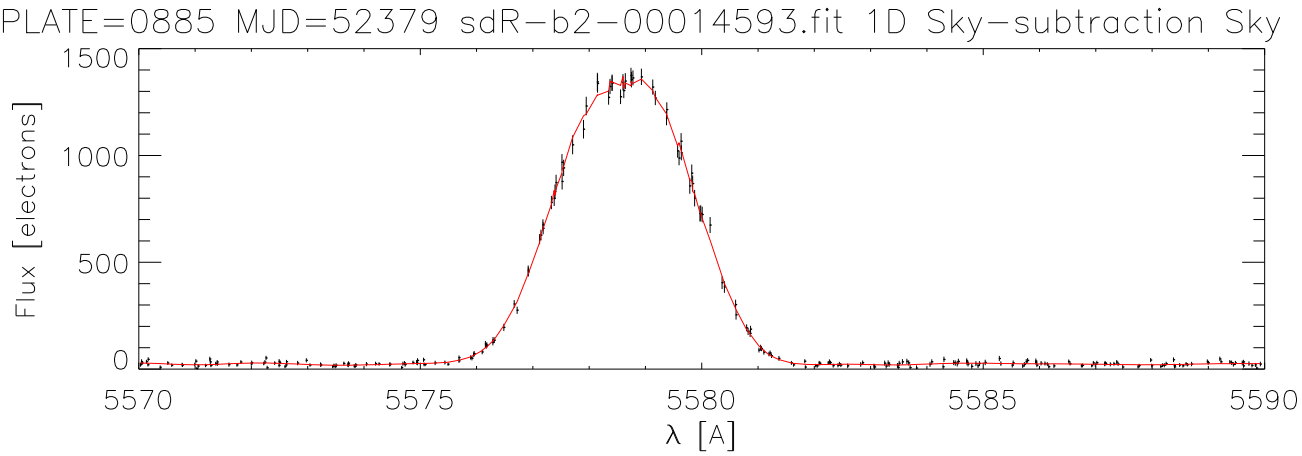

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

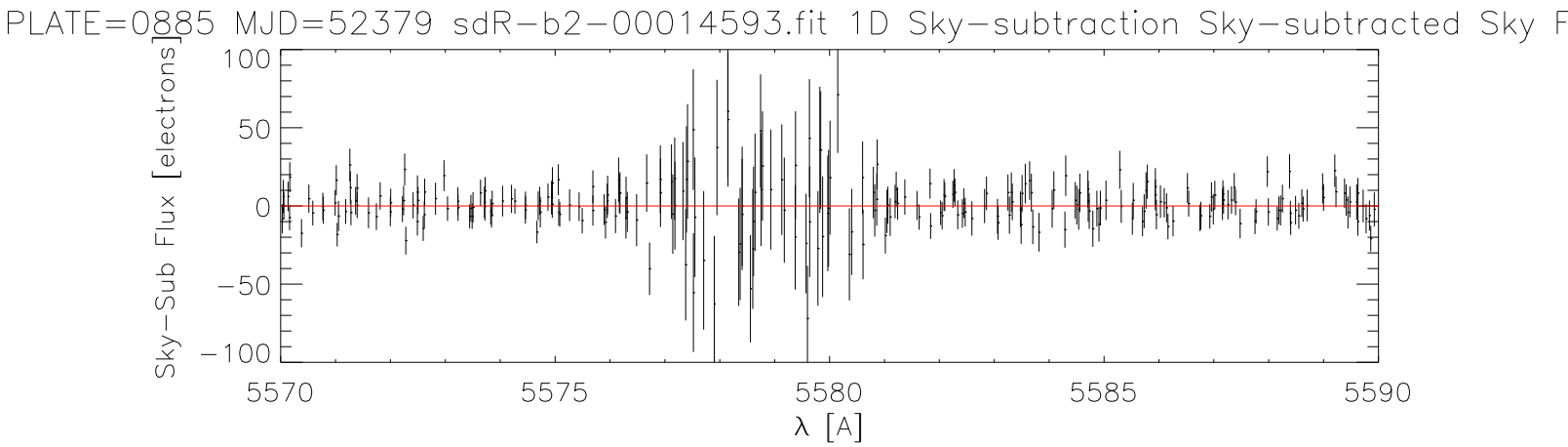

4046.5600
nfib1 16
nfib2 14
stdev 0.233
extra −0.47
4358.3300
nfib1 16
nfib2 16
stdev 0.105
extra −0.50
5460.9400
nfib1 16
nfib2 16
stdev 0.073
extra −0.35
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.29
5889.9500
nfib1 16
nfib2 16
stdev 0.057
extra −0.26
5895.9240
nfib1 16
nfib2 16
stdev 0.073
extra −0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

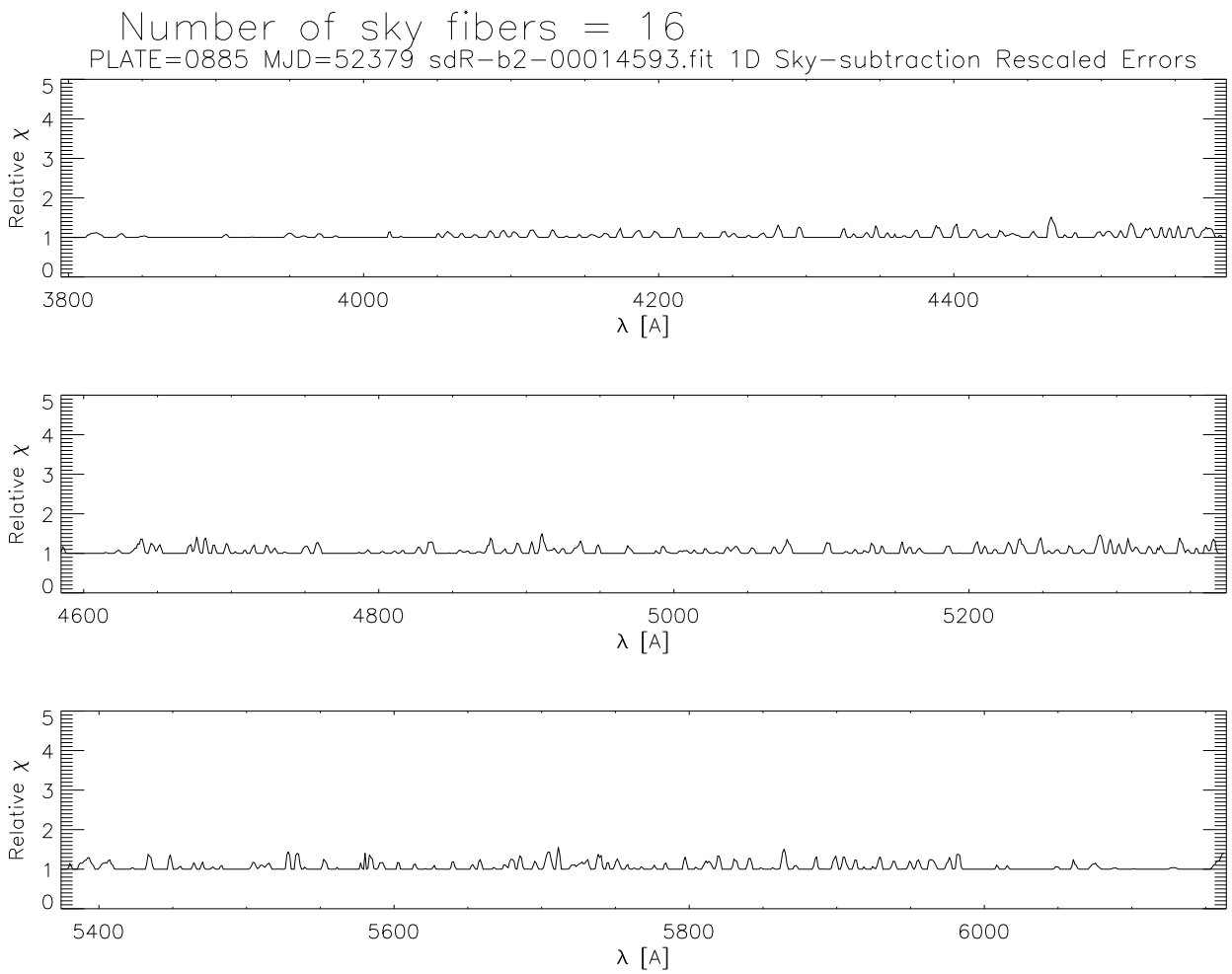

sky shift, pixels
−0.25
−0.30
−0.35
−0.40
−0.45
−0.50
−0.55
3500
4000
4500
5000
5500
6000
6500

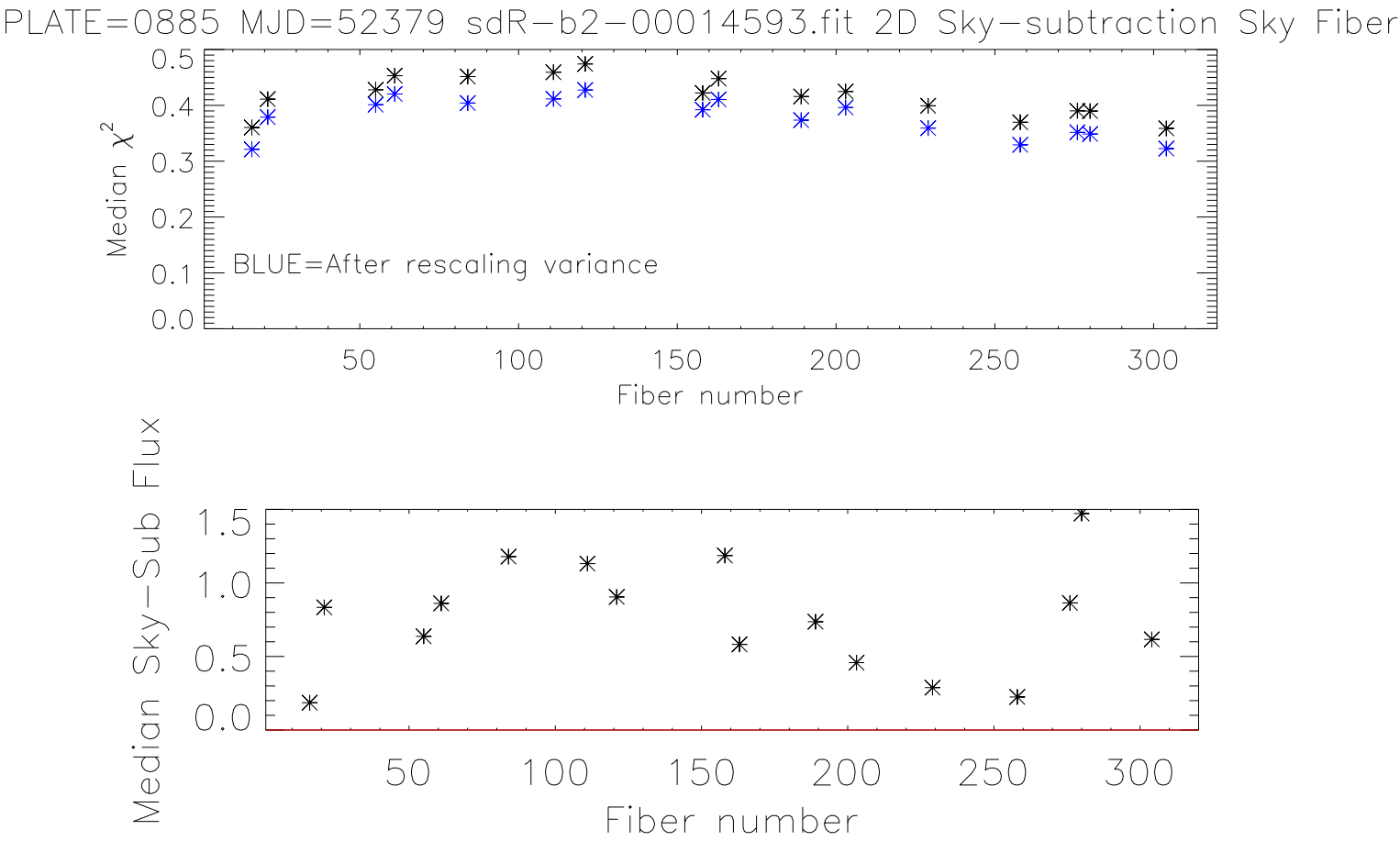

PLATE=0885 MJD=52379 Smooth superflat for sdR-b2-00014593.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

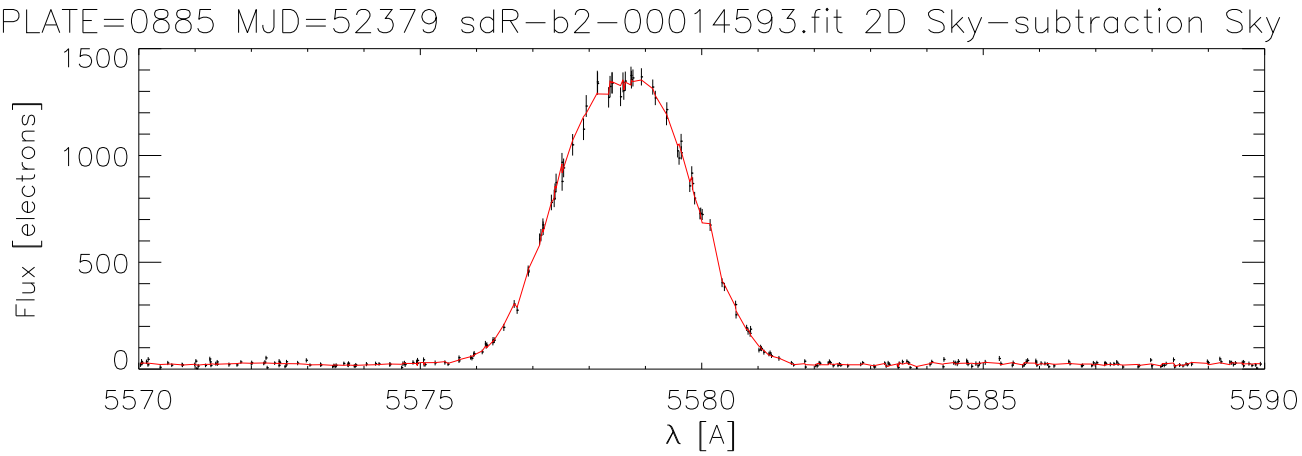

PLATE=0885 MJD=52379 sdR-b2-00014593.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
0.0
0.5
1.0
1.5
50
100
150
200
250
300
Fiber number

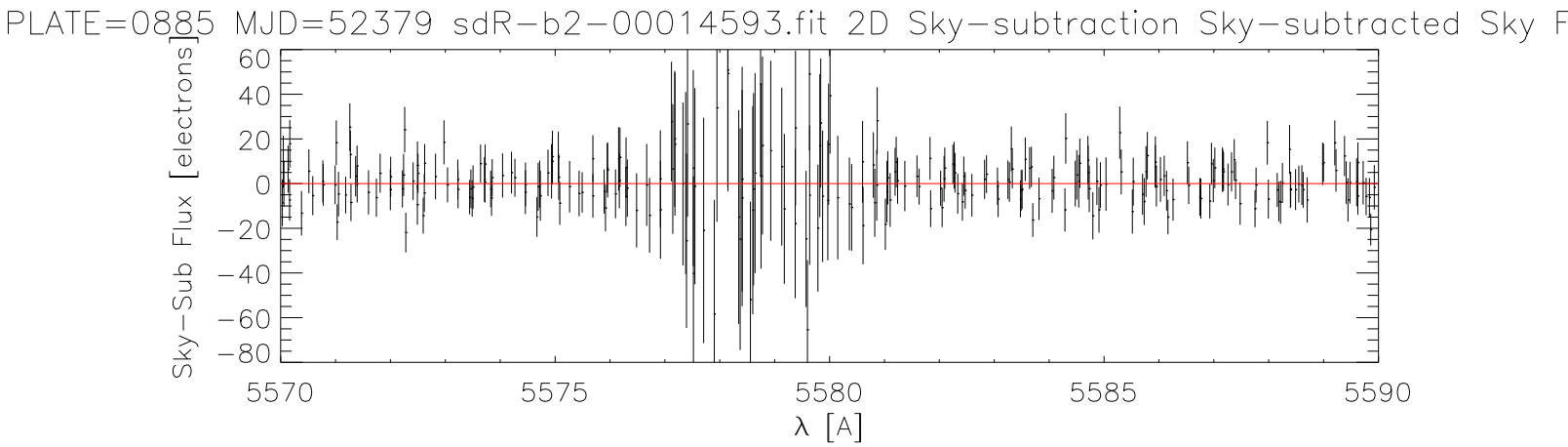

PLATE=0885 MJD=52379 sdR-b2-00014593.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

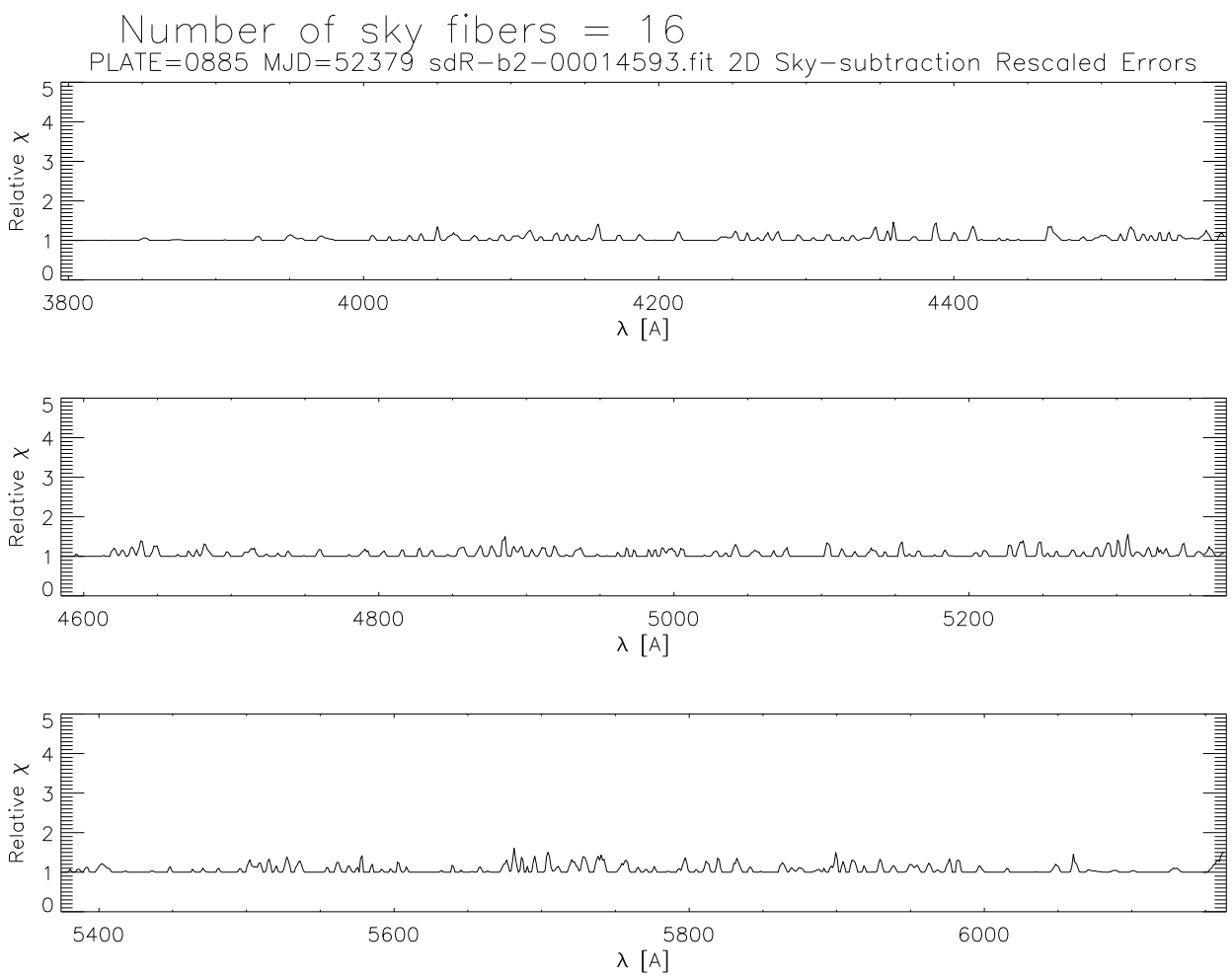

PLATE=0885 MJD=52379 sdR-b2-00014593.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

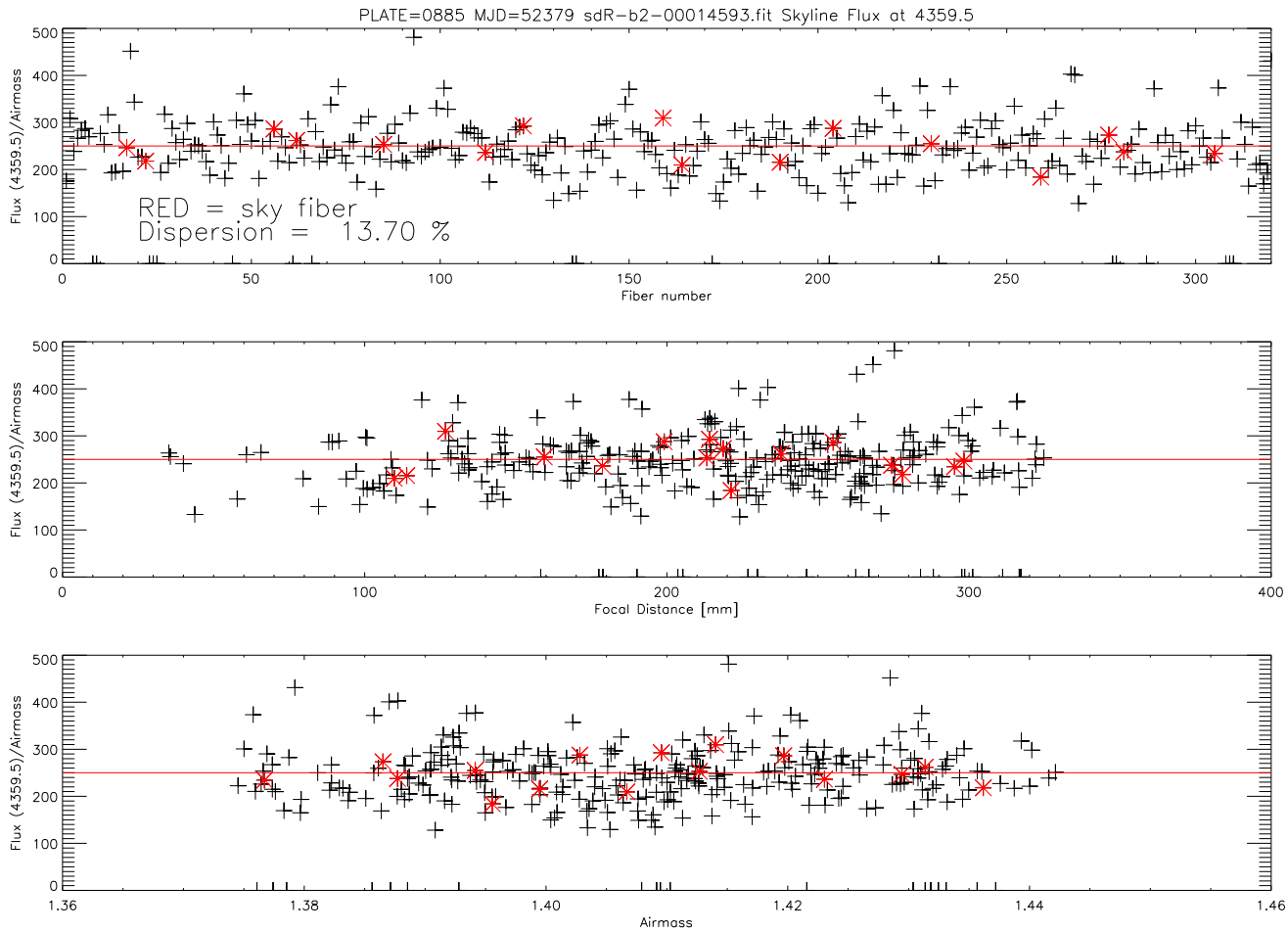

Number of sky fibers = 16
PLATE=0885 MJD=52379 sdR-b2-00014593.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

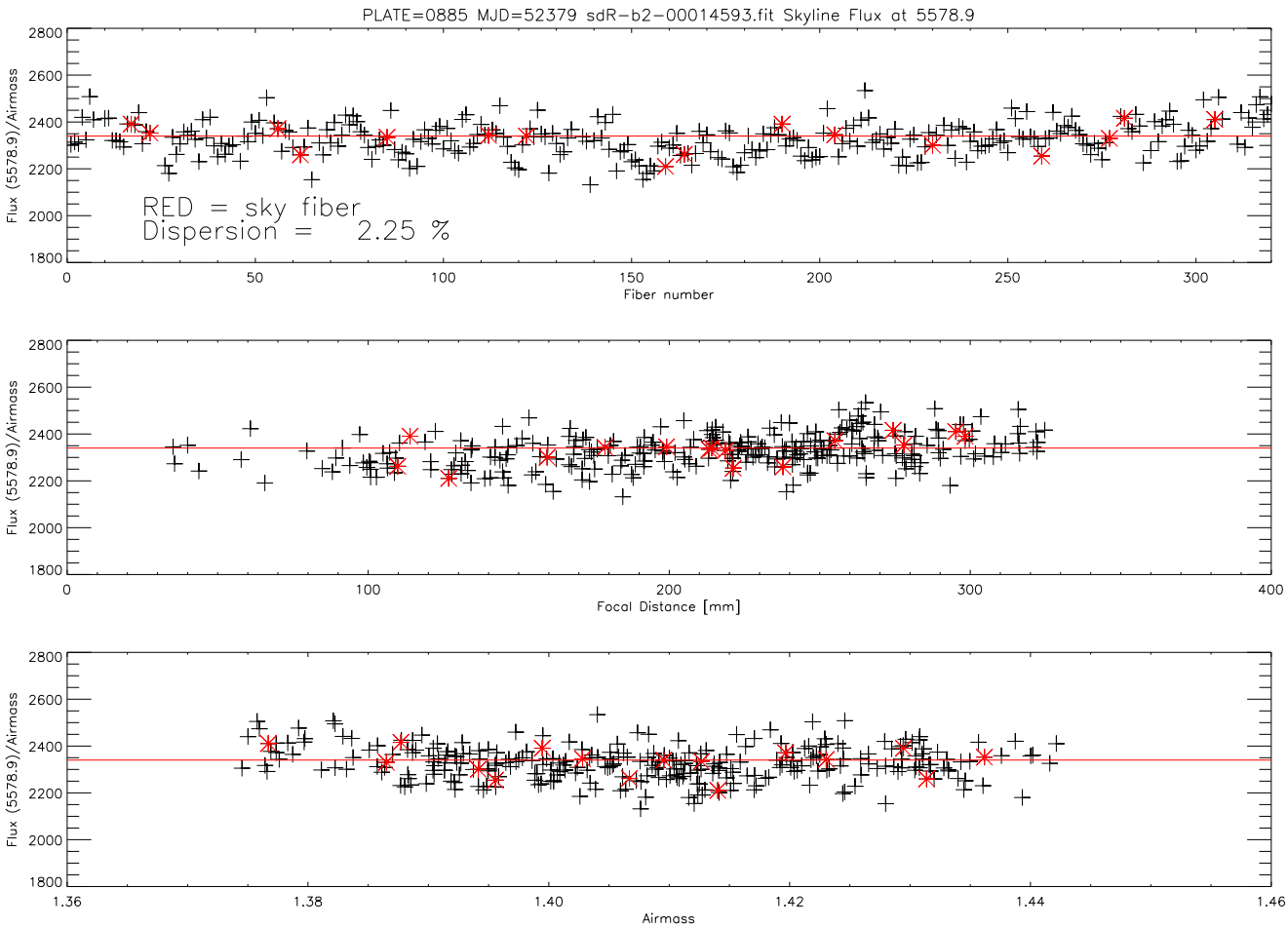

PLATE=0885 MJD=52379 sdR-b2-00014593.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

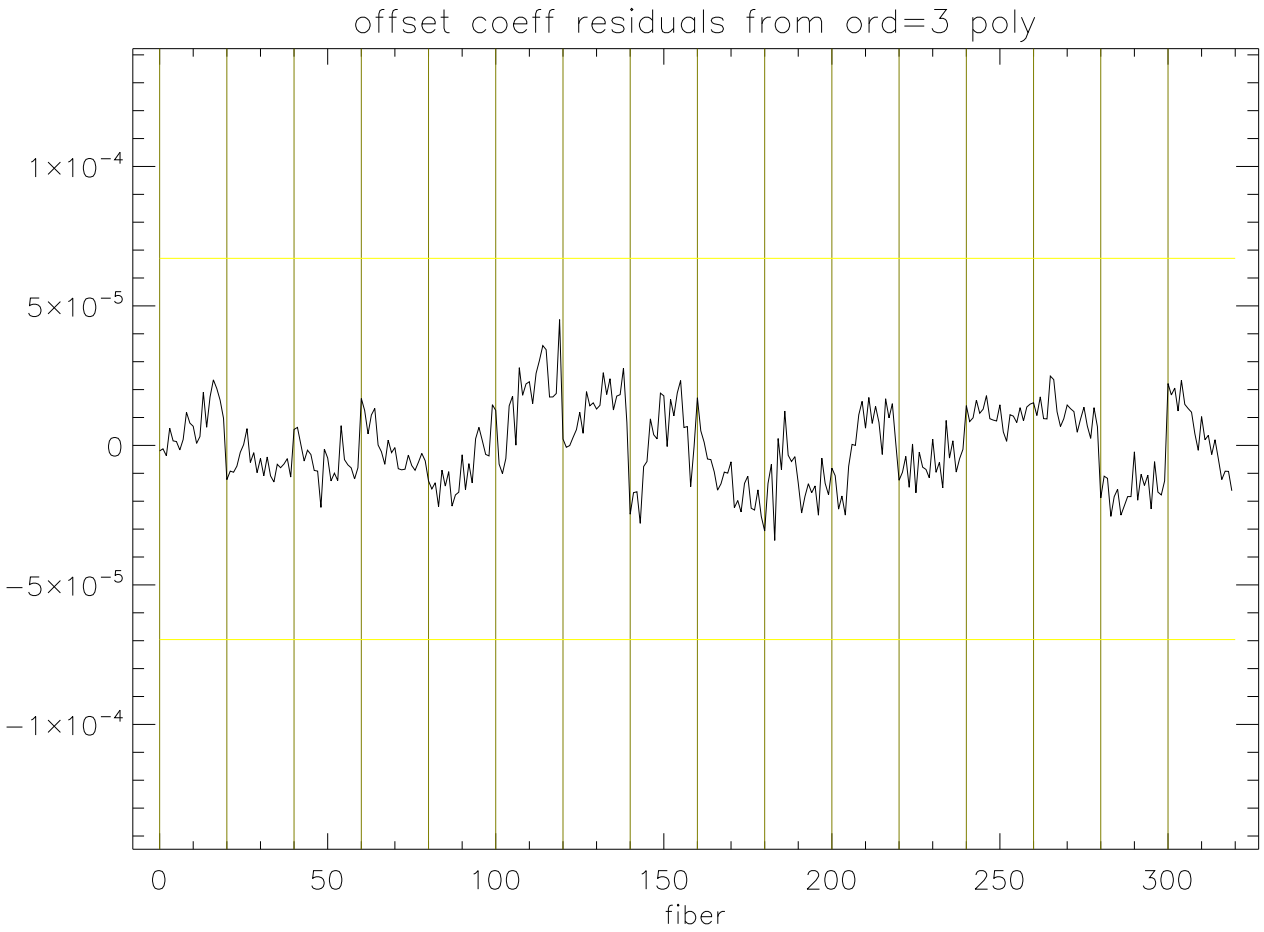

PLATE=0885 MJD=52379 sdR-b2-00014593.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

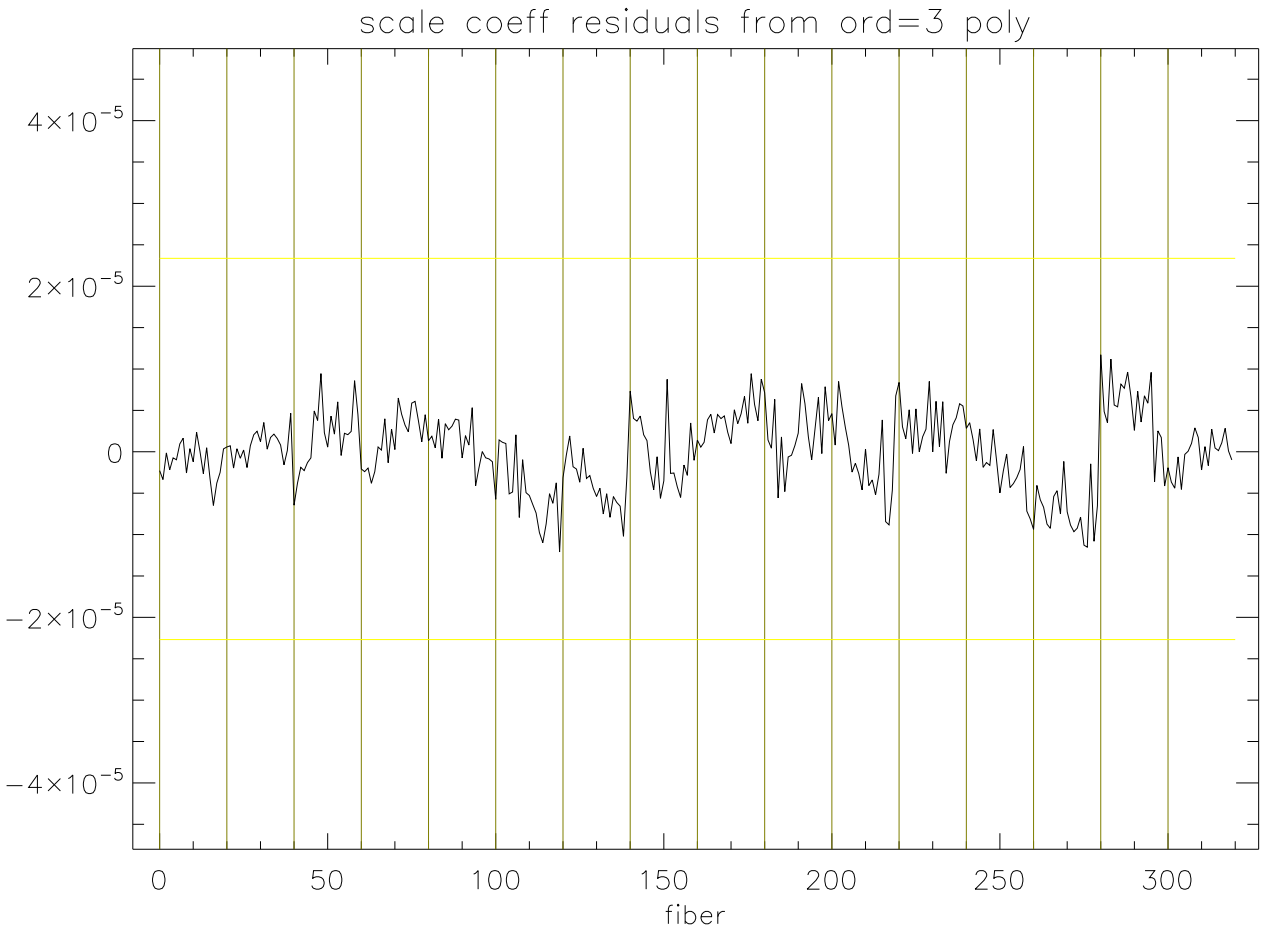

PLATE=0885 MJD=52379 sdR-b2-00014593.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
-60
-80
5570
5575
5580
5585
5590
λ [A]

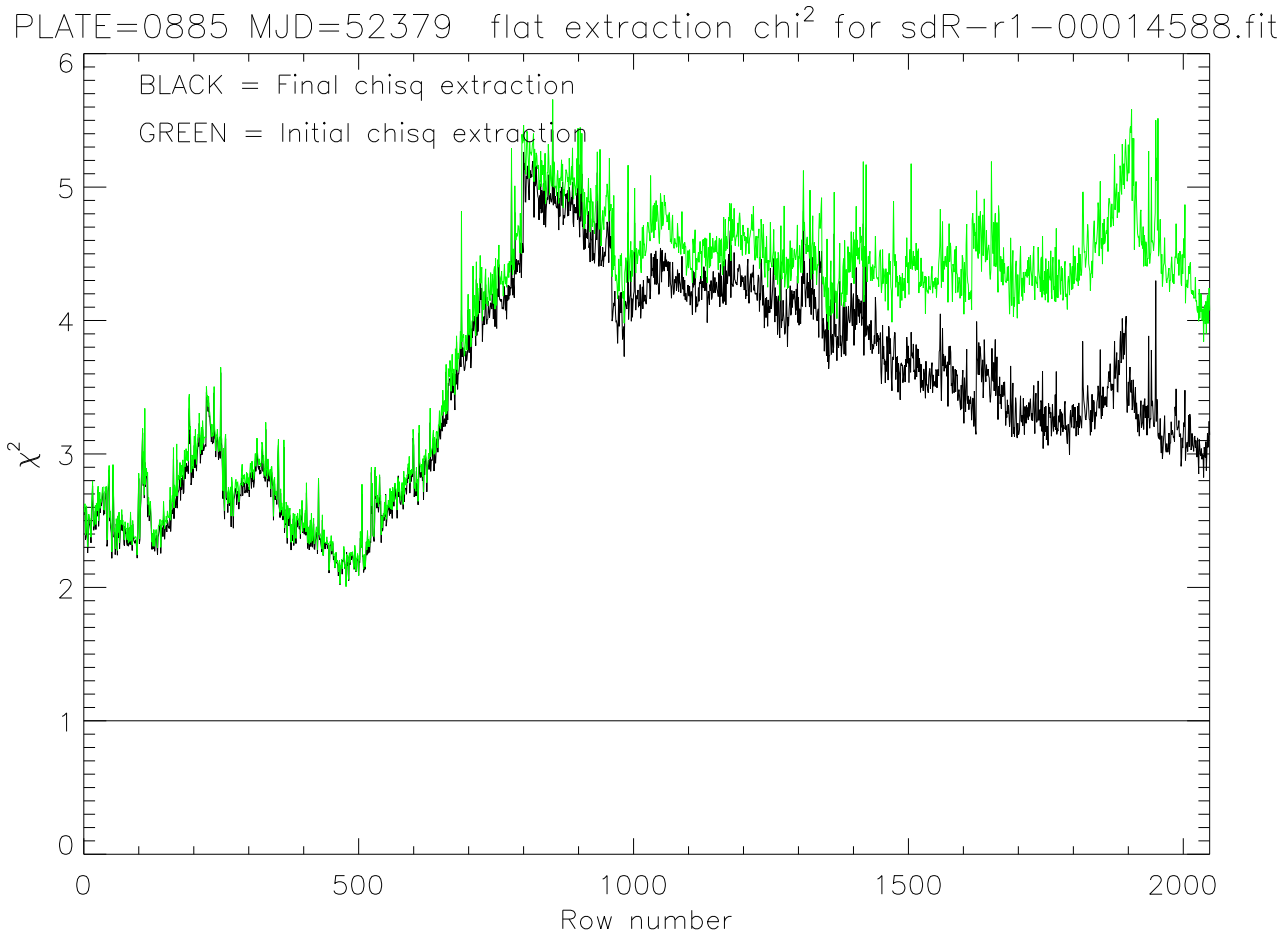

Number of sky fibers = 16
PLATE=0885 MJD=52379 sdR-b2-00014593.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

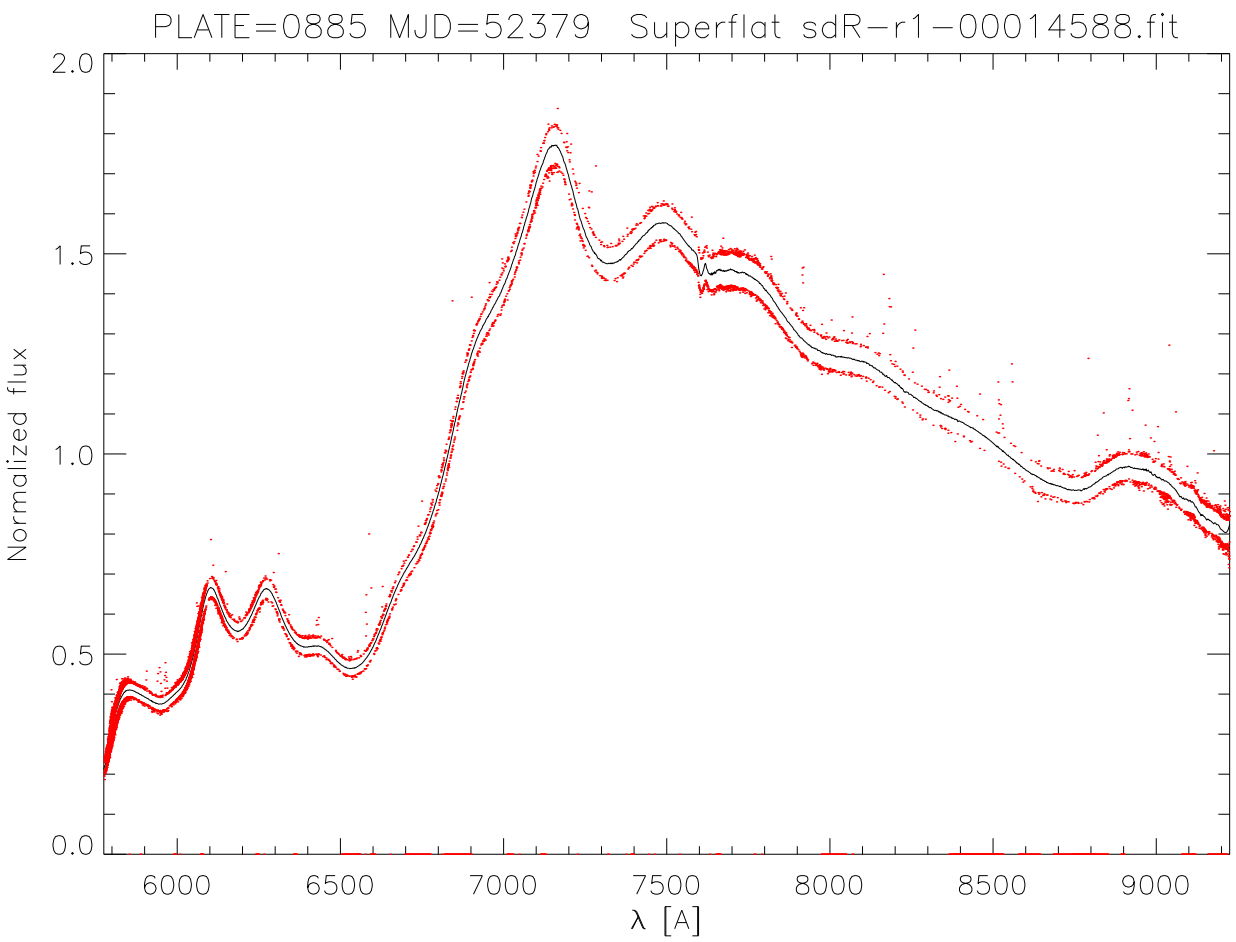

PLATE=0885 MJD=52379 sdR-b2-00014593.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.70 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

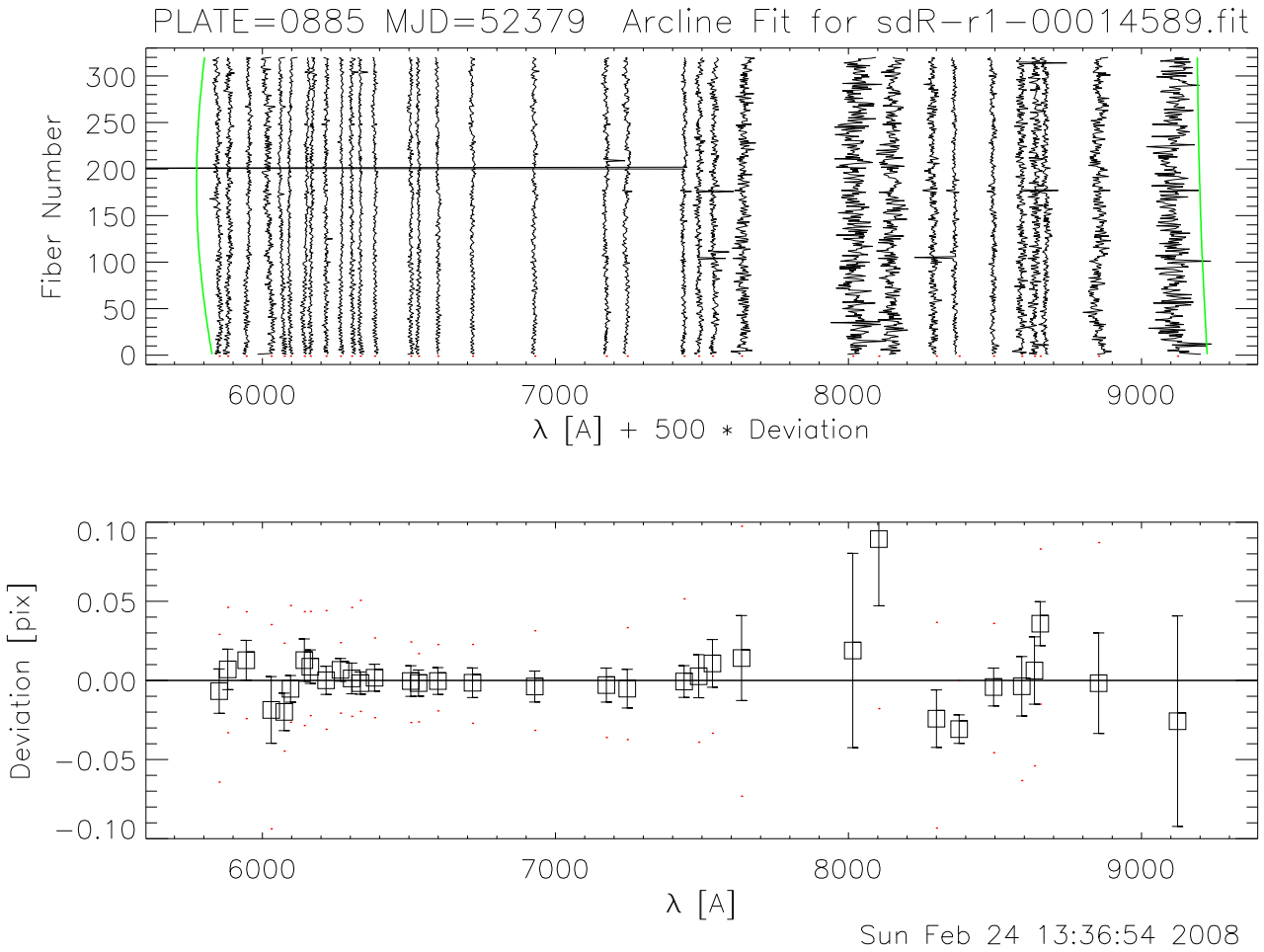

PLATE=0885 MJD=52379 sdR-b2-00014593.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.25 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

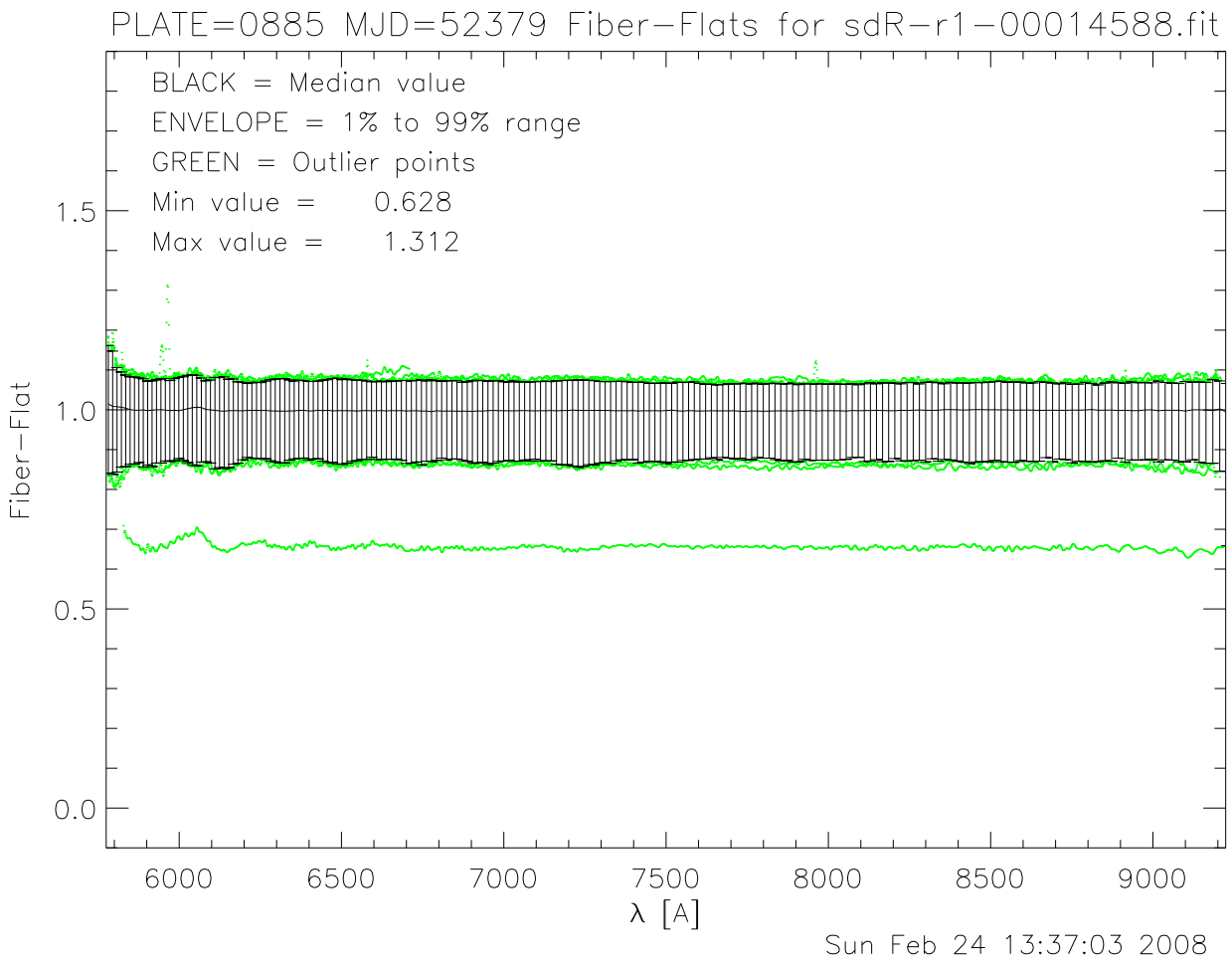

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

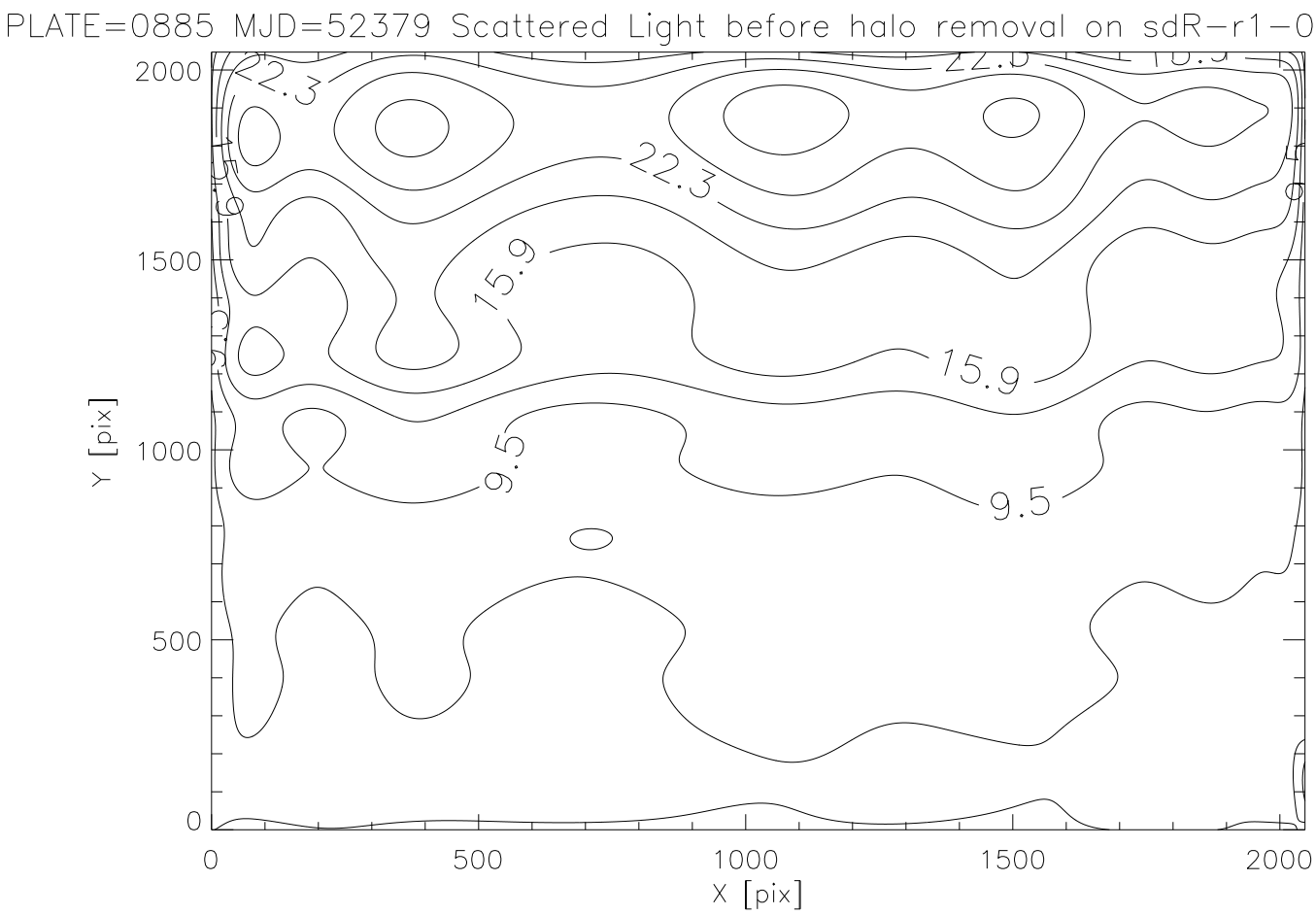

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

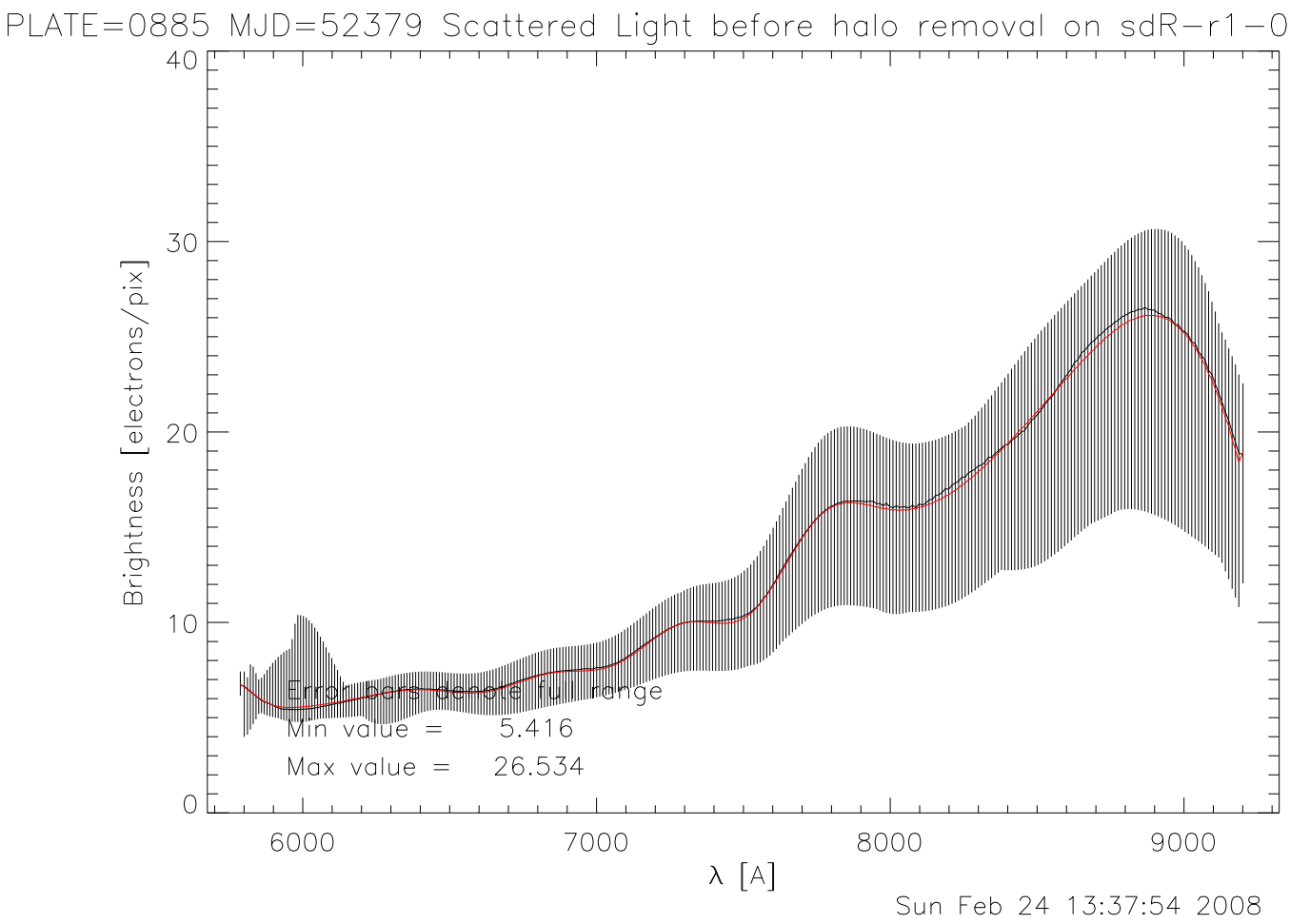

PLATE=0885 MJD=52379 flat extraction chi^2 for sdR−r1−00014588.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

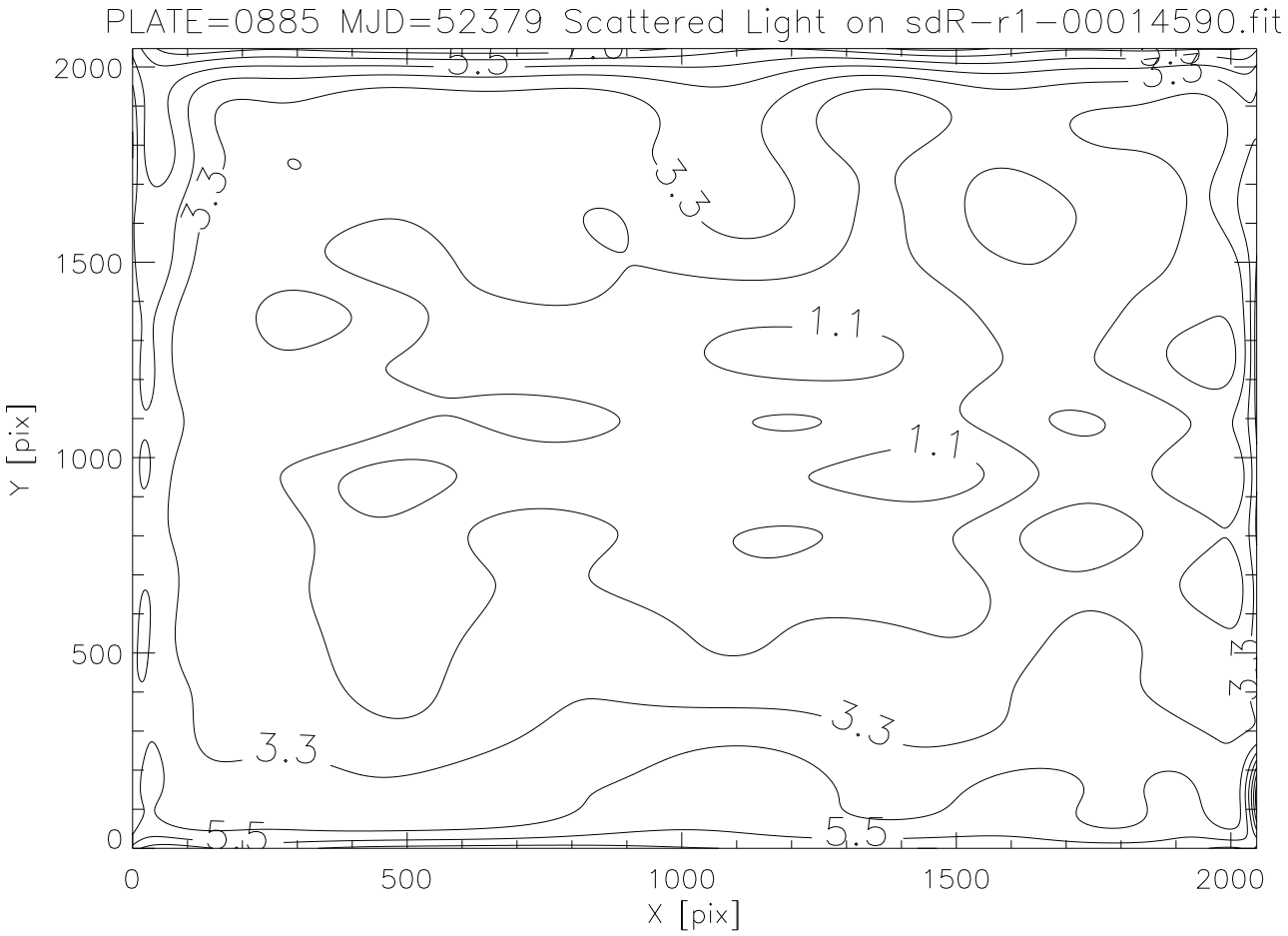

PLATE=0885 MJD=52379 Superflat sdR-r1-00014588.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

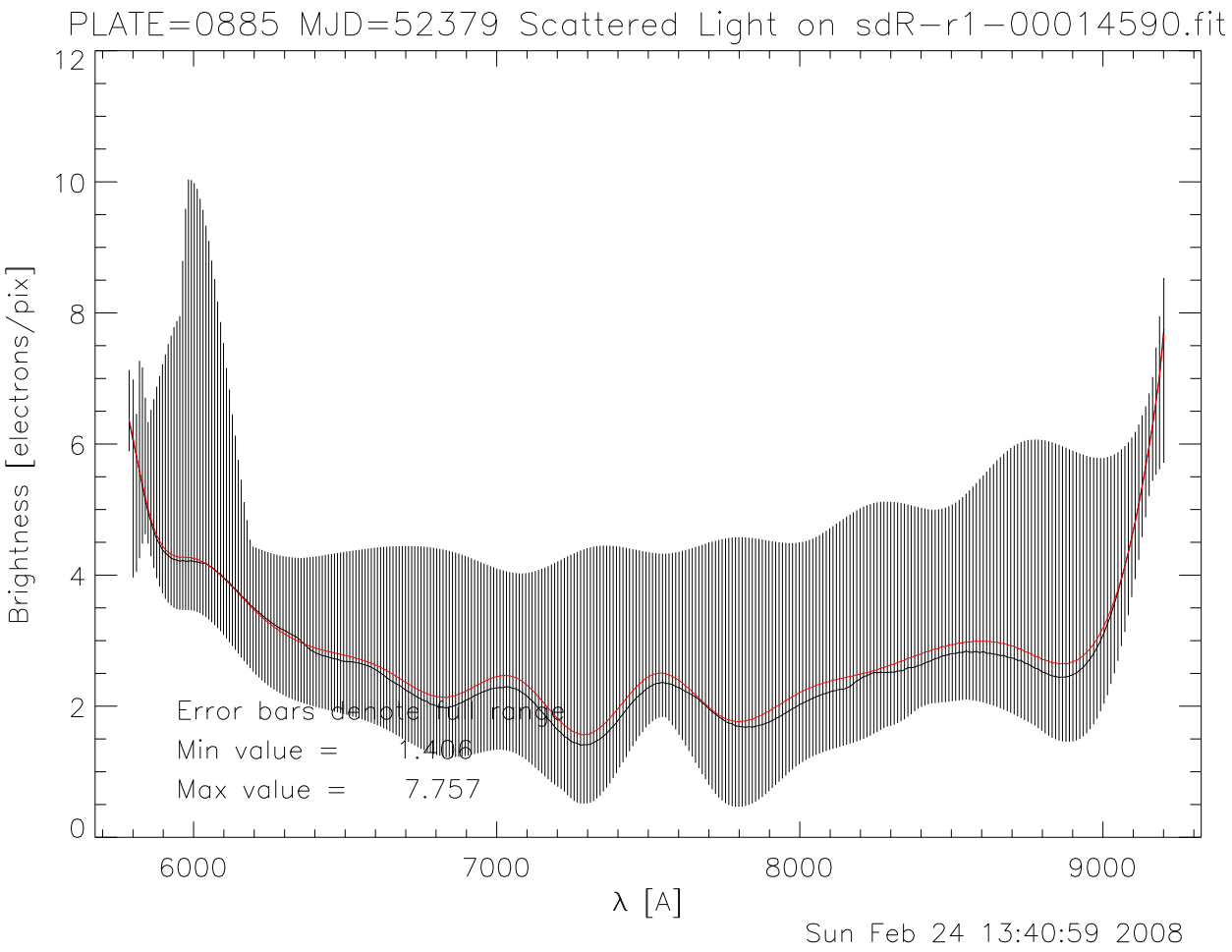

PLATE=0885 MJD=52379 Arcline Fit for sdR-r1-00014589.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 24 13:36:54 2008

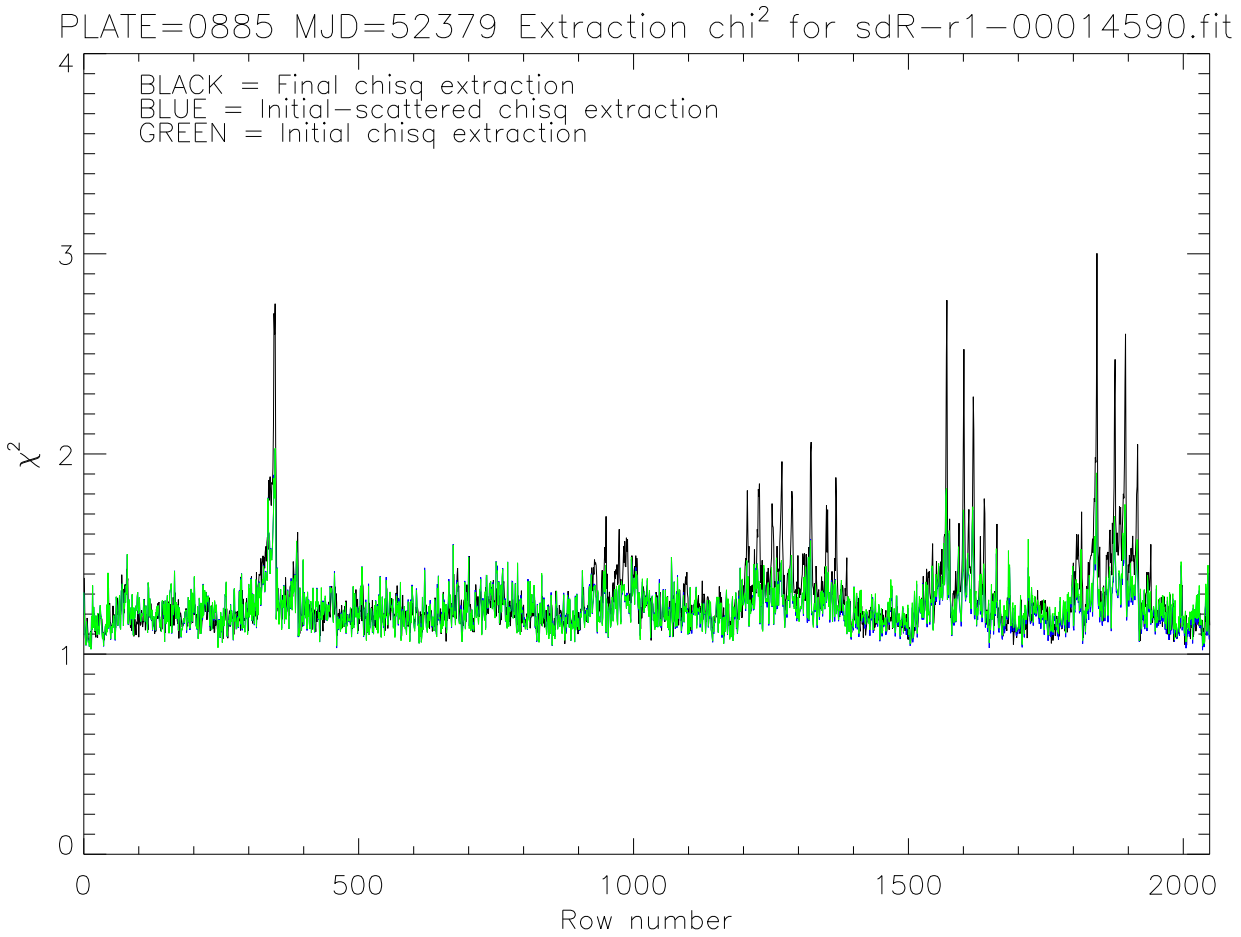

PLATE=0885 MJD=52379 Fiber−Flats for sdR−r1−00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.628
Max value = 1.312
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 24 13:37:03 2008

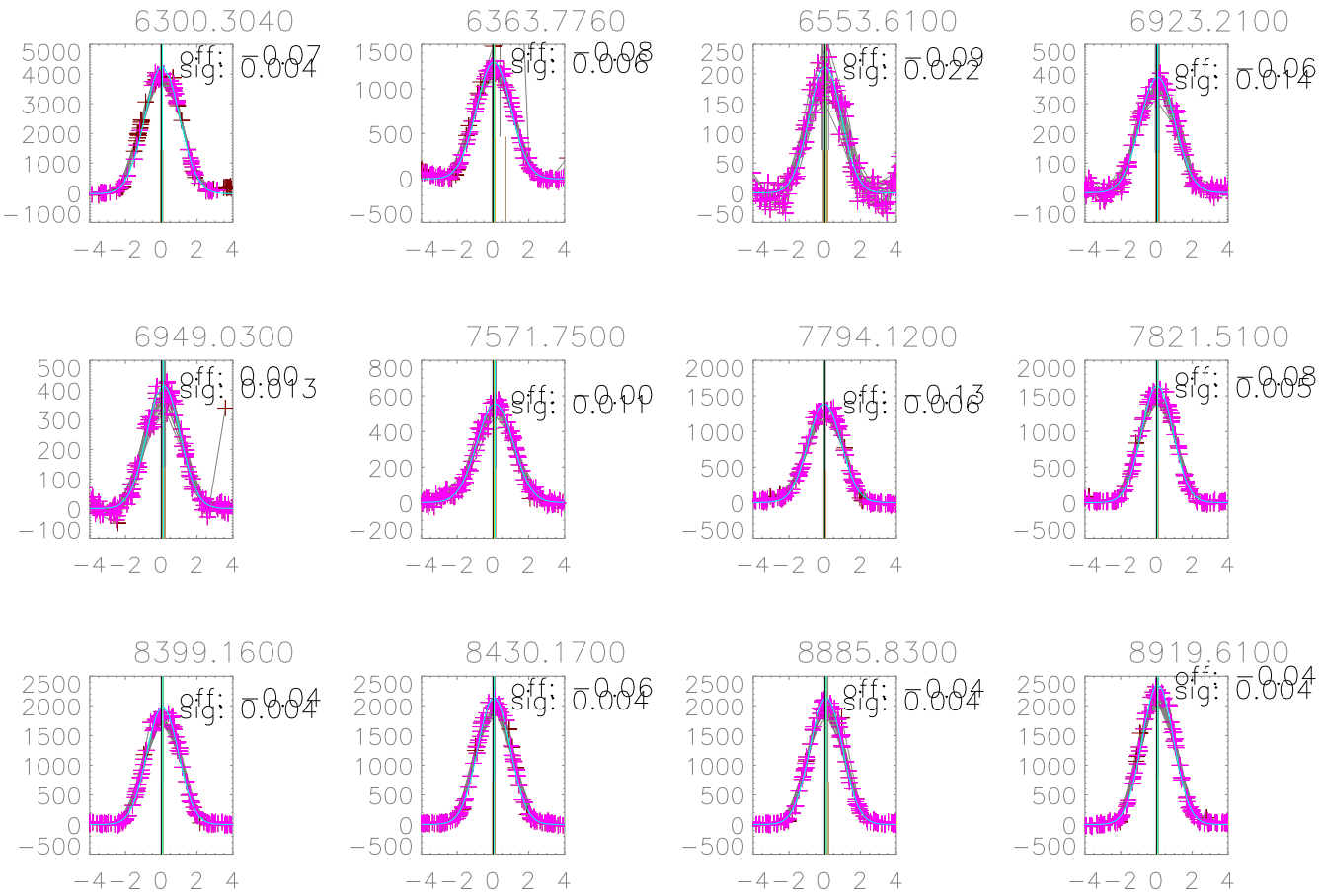

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r1-00014590.fi
22.3
22.3
15.9
15.9
9.5
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

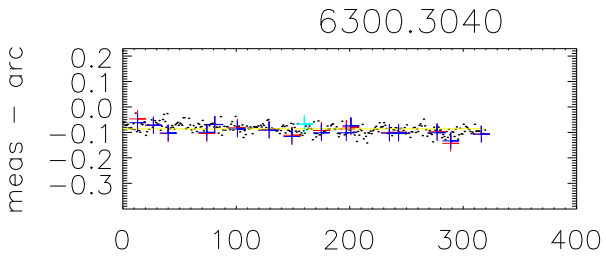

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r1-00014590.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.416
Max value = 26.534
Sun Feb 24 13:37:54 2008

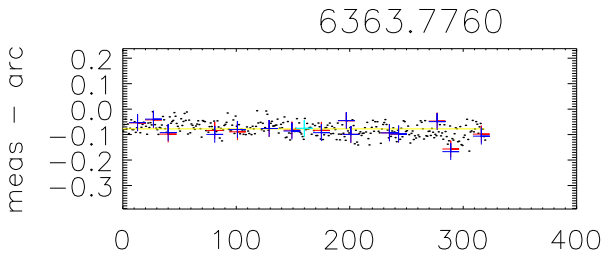

PLATE=0885 MJD=52379 Scattered Light on sdR−r1−00014590.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5
3.3
1.1

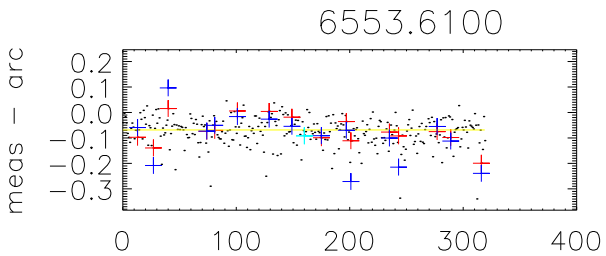

PLATE=0885 MJD=52379 Scattered Light on sdR-r1-00014590.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.406
Max value = 7.757
Sun Feb 24 13:40:59 2008

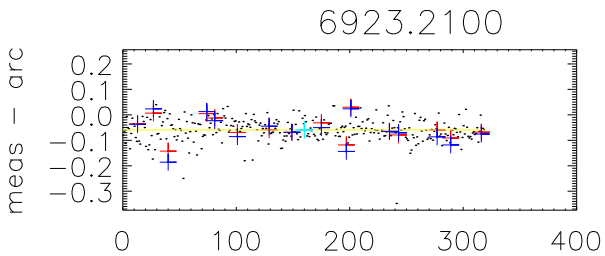

PLATE=0885 MJD=52379 Extraction chi^2 for sdR−r1−00014590.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

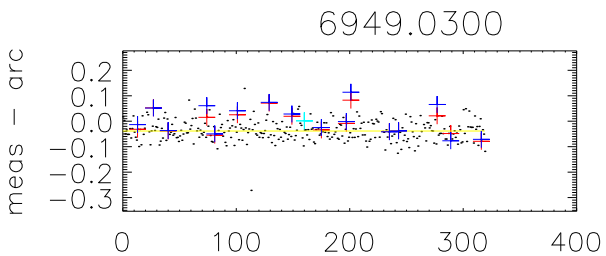

6300.3040
off: −0.07
sig: 0.004
6363.7760
off: −0.08
sig: 0.006
6553.6100
off: −0.09
sig: 0.022
6923.2100
off: −0.06
sig: 0.014
6949.0300
off: 0.00
sig: 0.013
7571.7500
off: −0.00
sig: 0.011
7794.1200
off: −0.13
sig: 0.006
7821.5100
off: −0.08
sig: 0.005
8399.1600
off: −0.04
sig: 0.004
8430.1700
off: −0.06
sig: 0.004
8885.8300
off: −0.04
sig: 0.004
8919.6100
off: −0.04
sig: 0.004

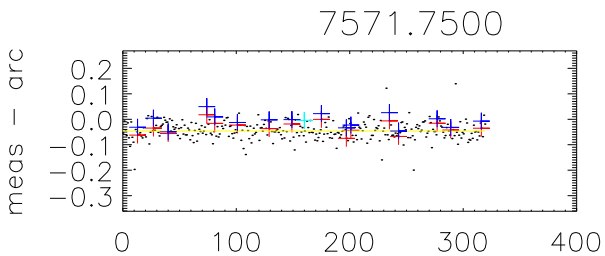

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

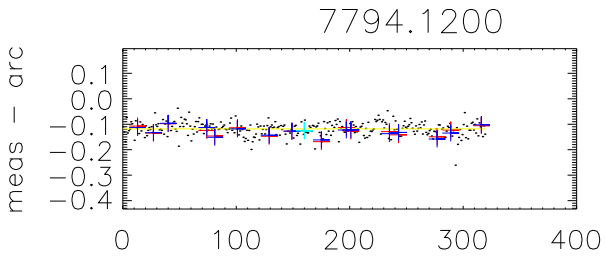

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

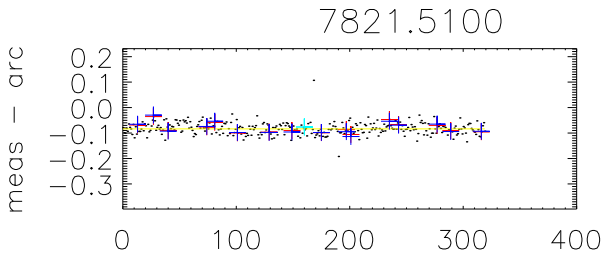

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

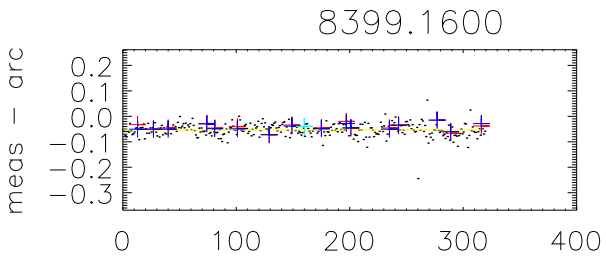

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

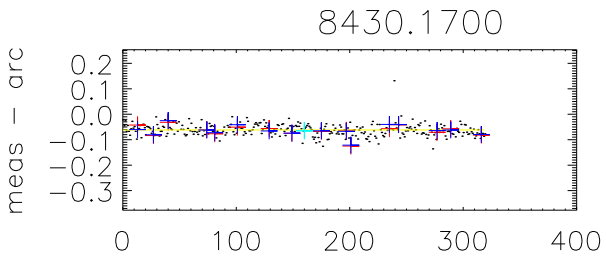

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

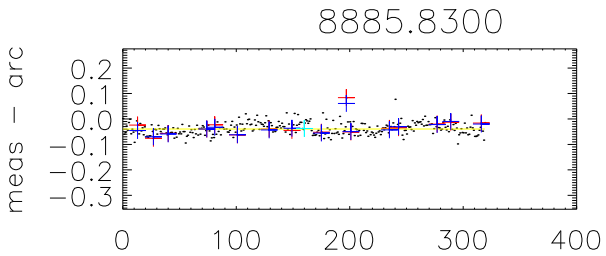

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

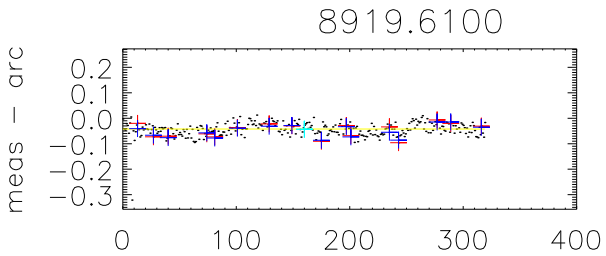

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

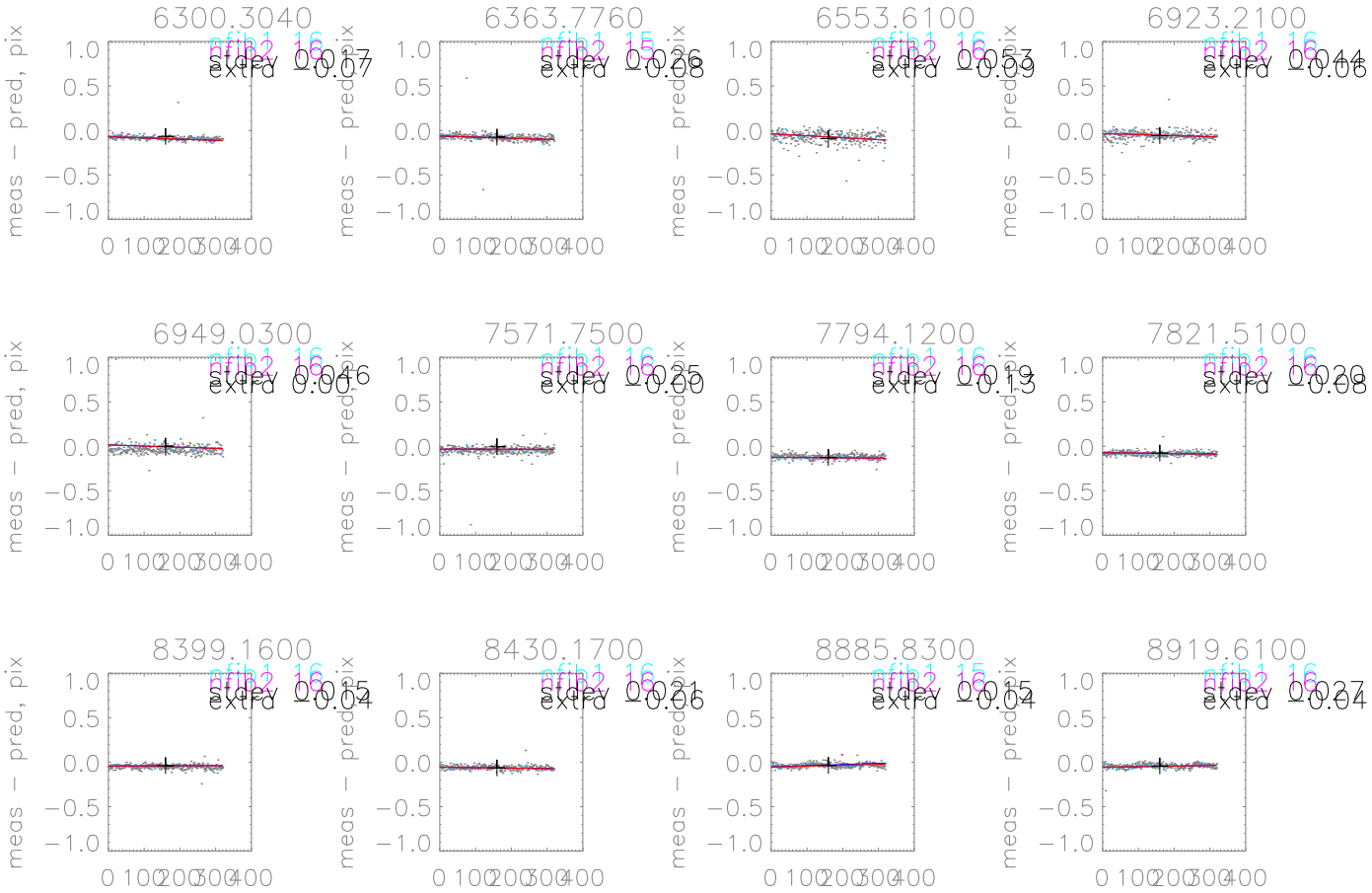

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

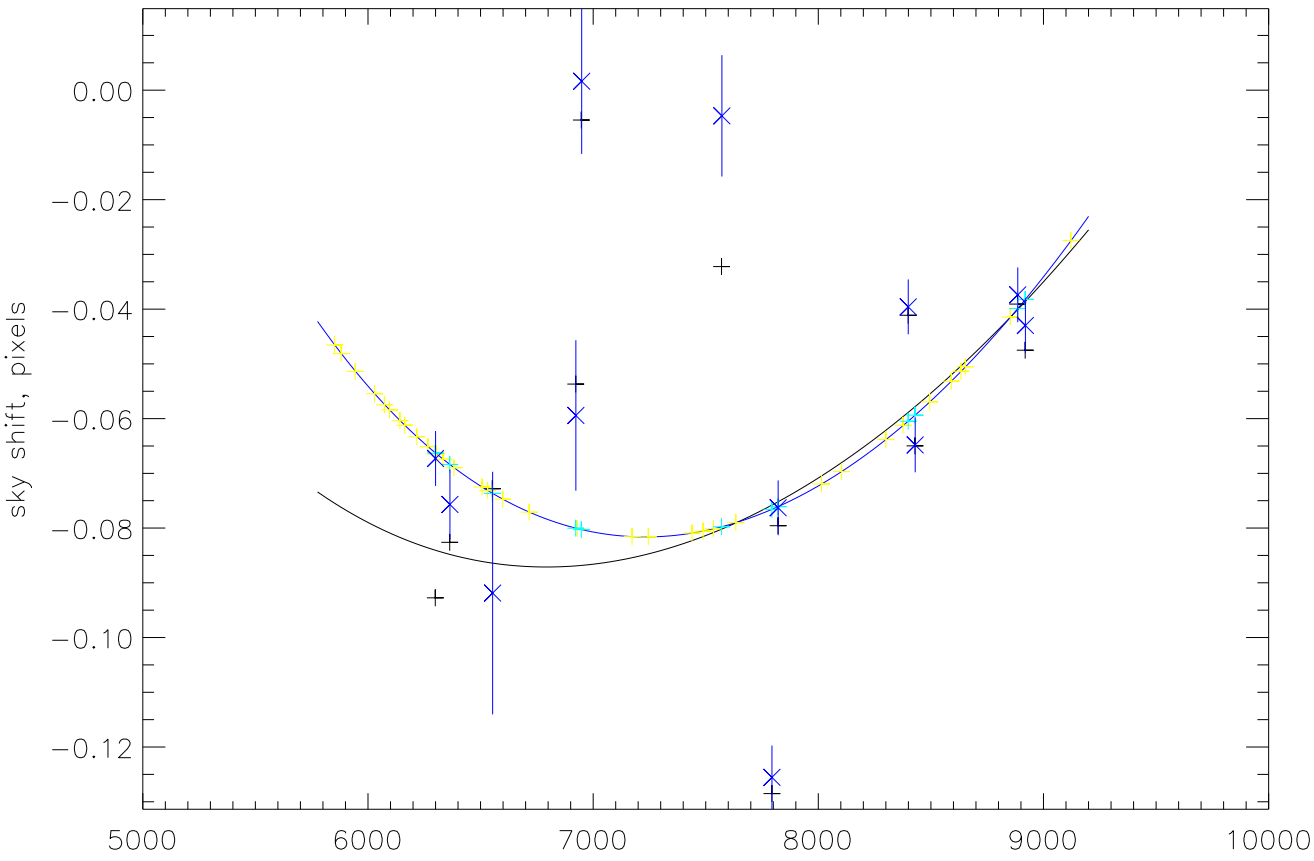

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

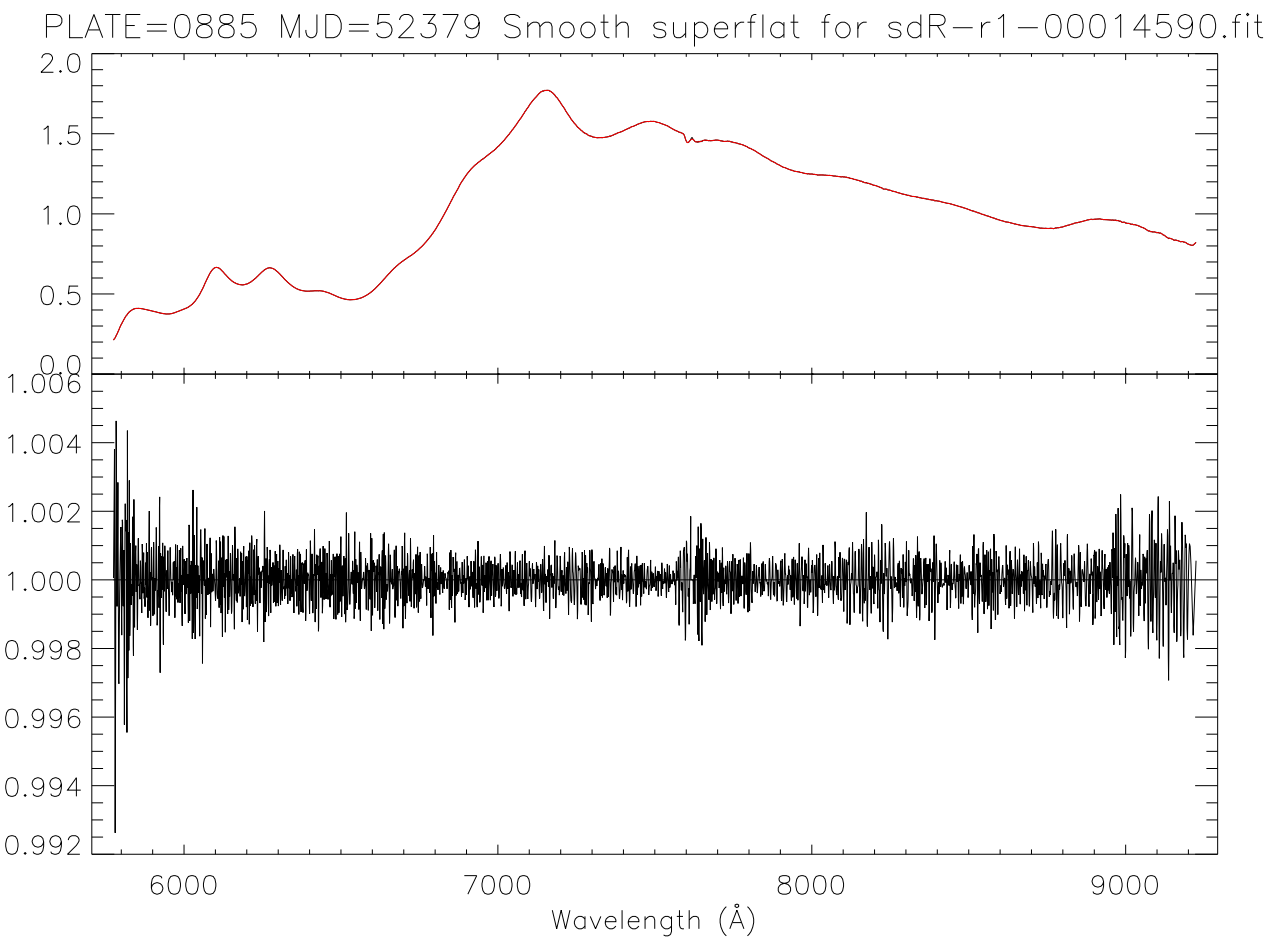

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

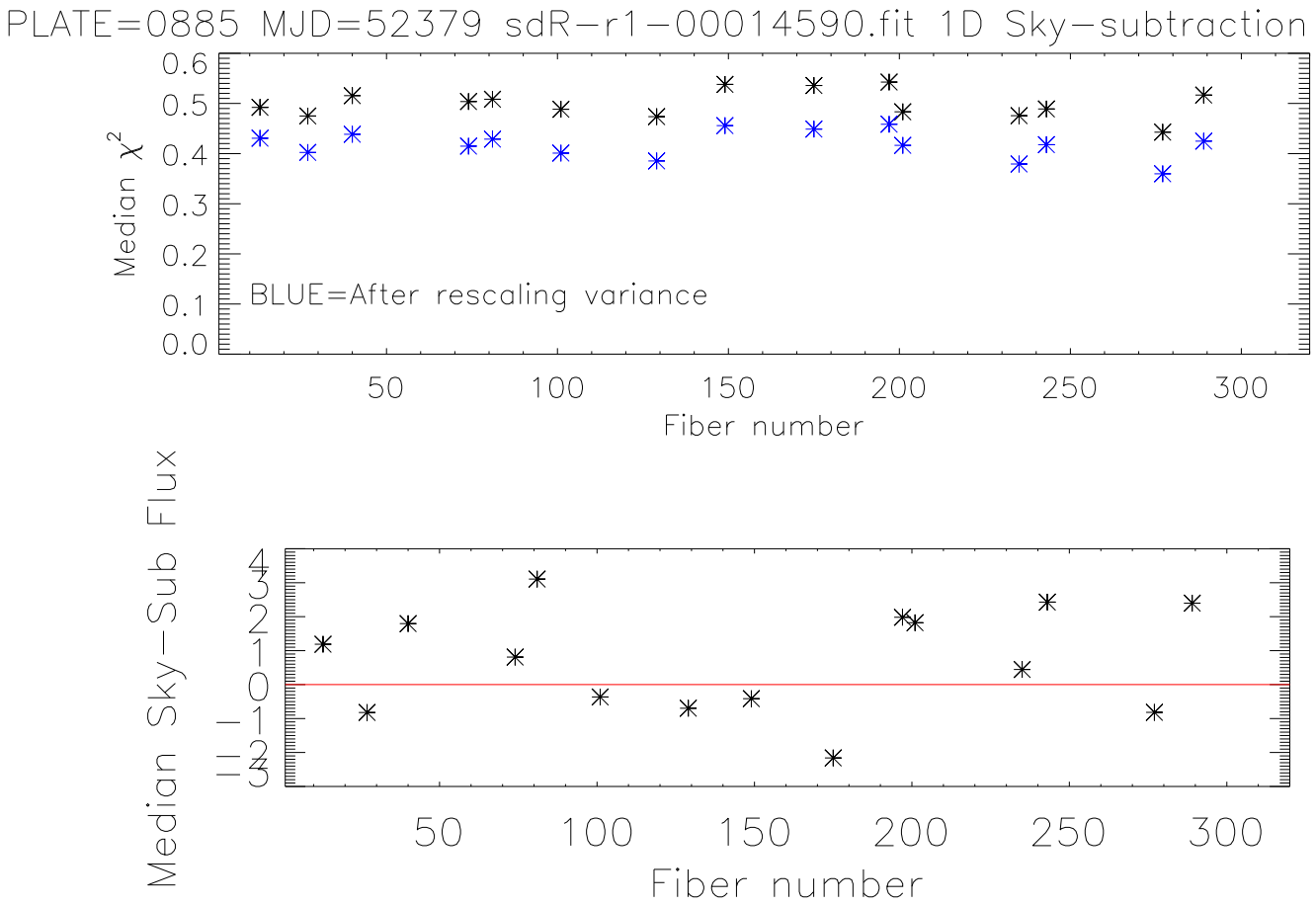

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

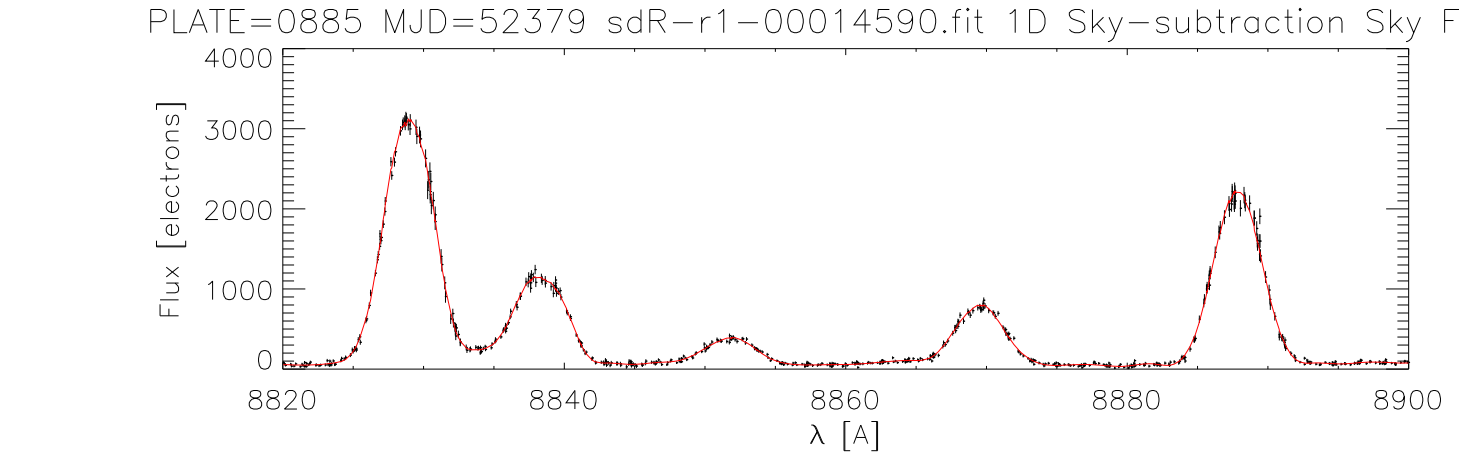

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhd2 16
stdev 0.07
stdev 0.08
stdev 0.09
stdev 0.06
stdev 0.046
stdev 0.035
stdev 0.13
stdev 0.08
stdev 0.04
stdev 0.06
stdev 0.04
stdev 0.04
extra 0.00
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

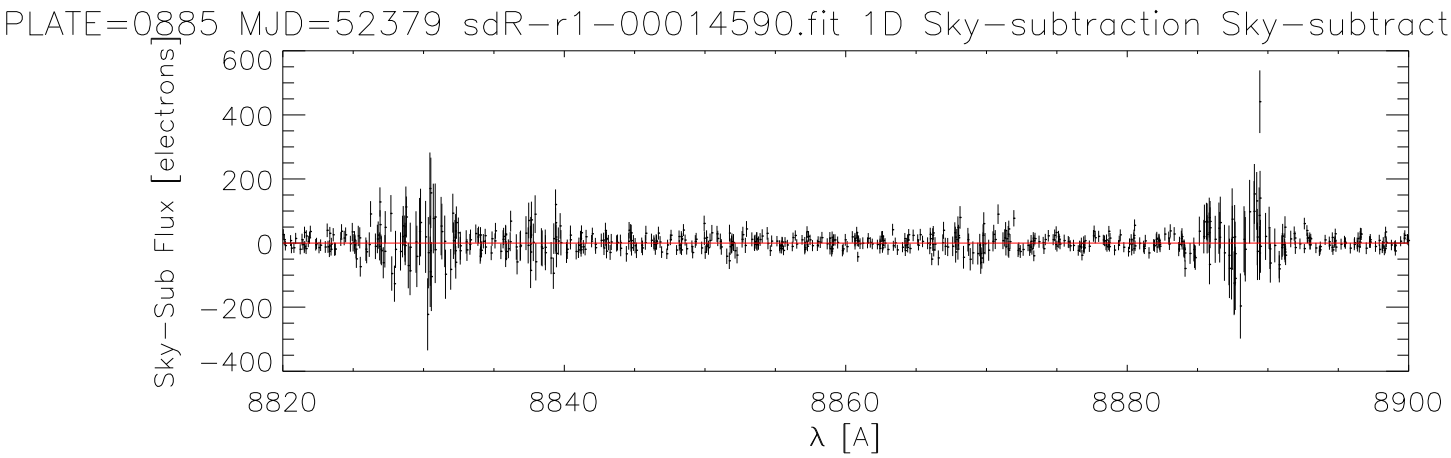

0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
sky shift, pixels
5000
6000
7000
8000
9000
10000

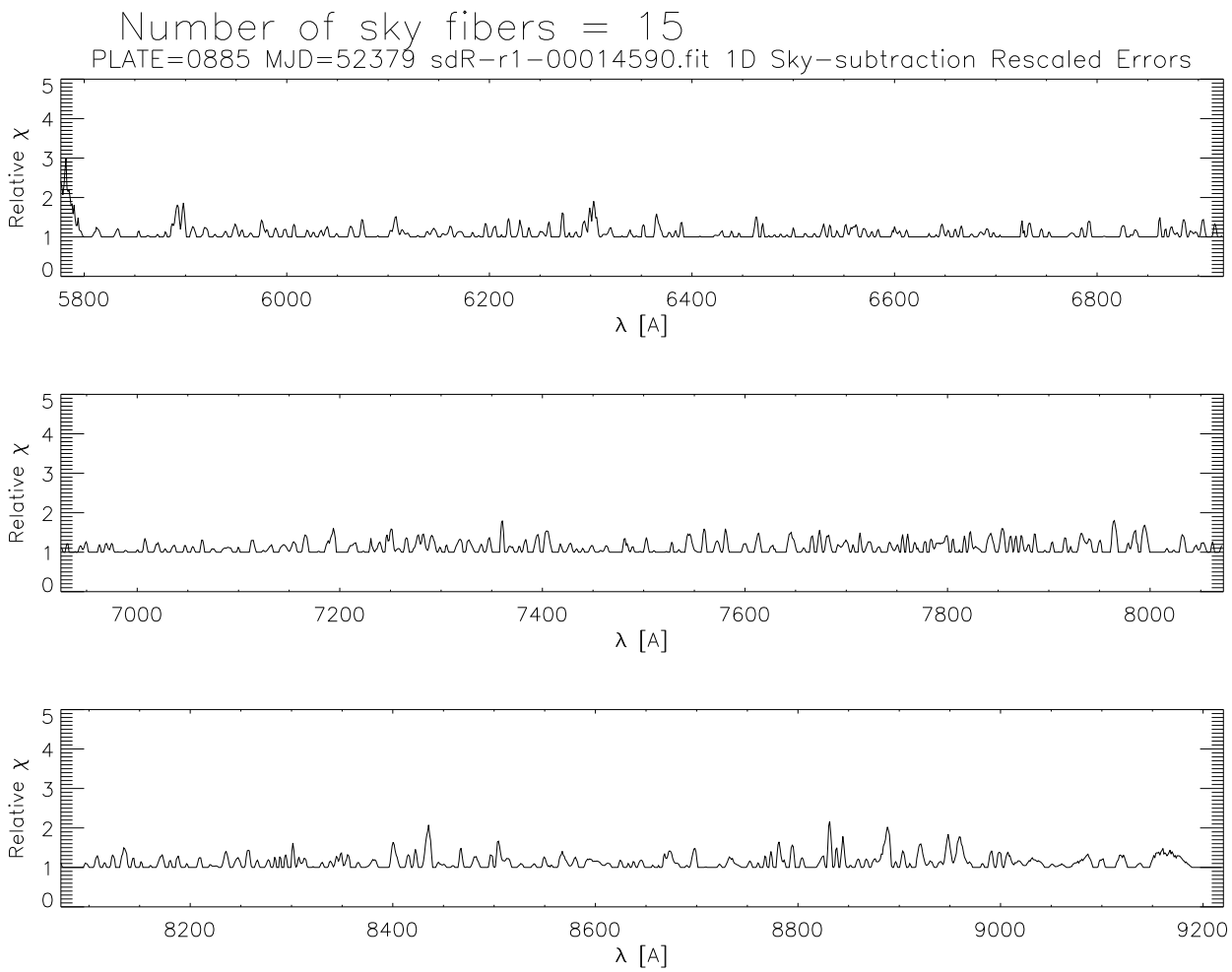
es= 0.0000

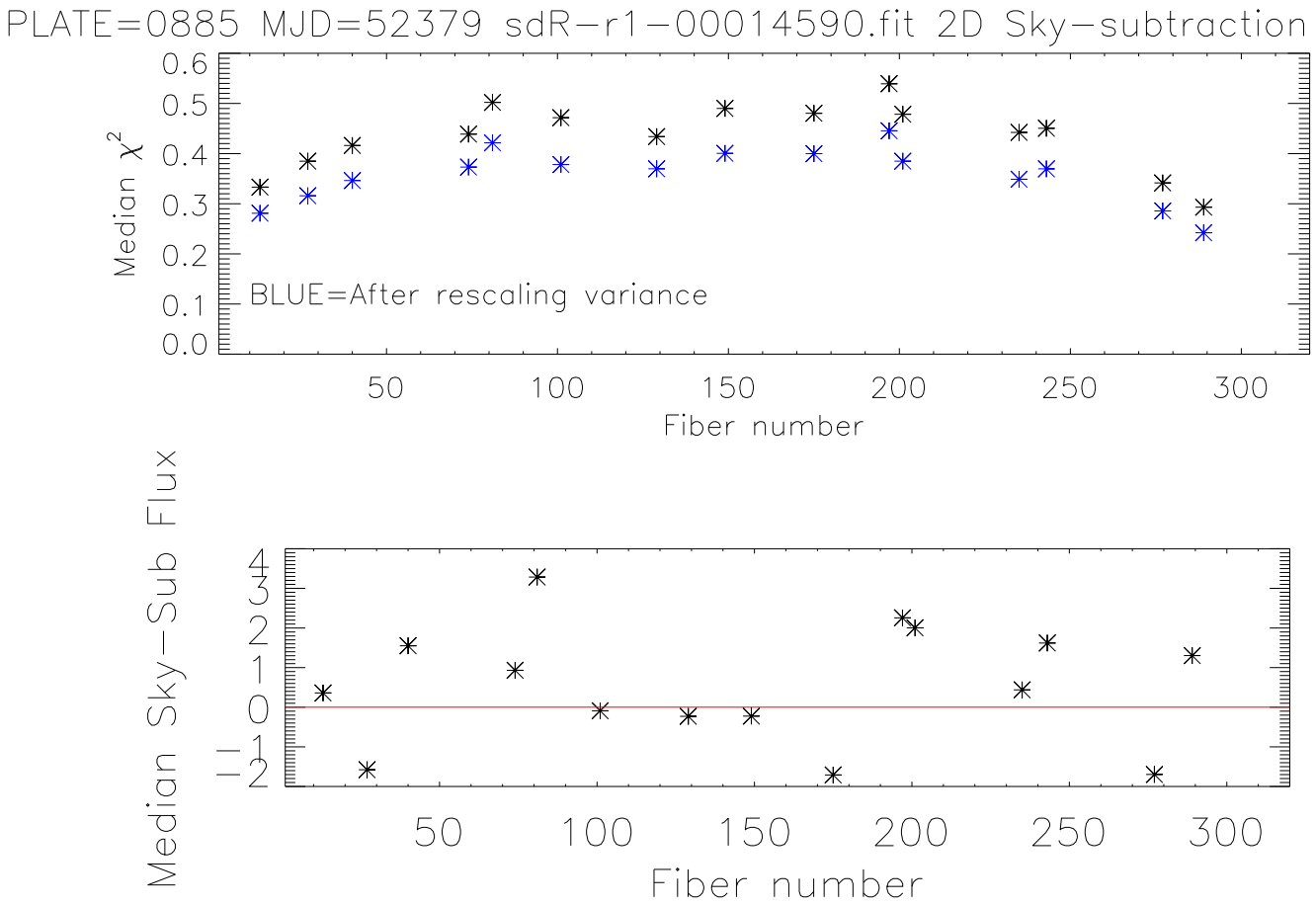

PLATE=0885 MJD=52379 Smooth superflat for sdR-r1-00014590.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

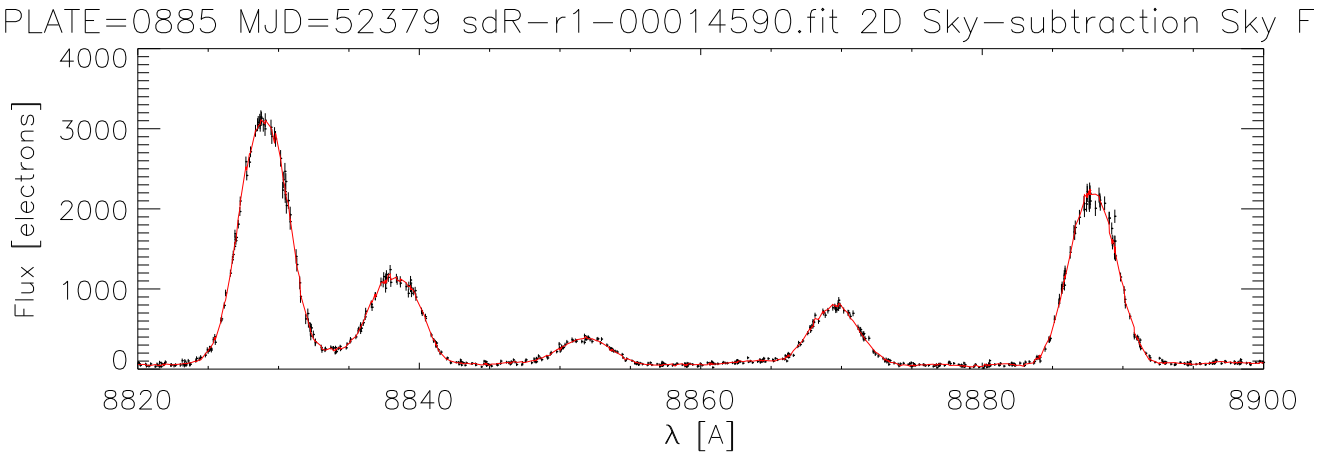

PLATE=0885 MJD=52379 sdR-r1-00014590.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-3
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

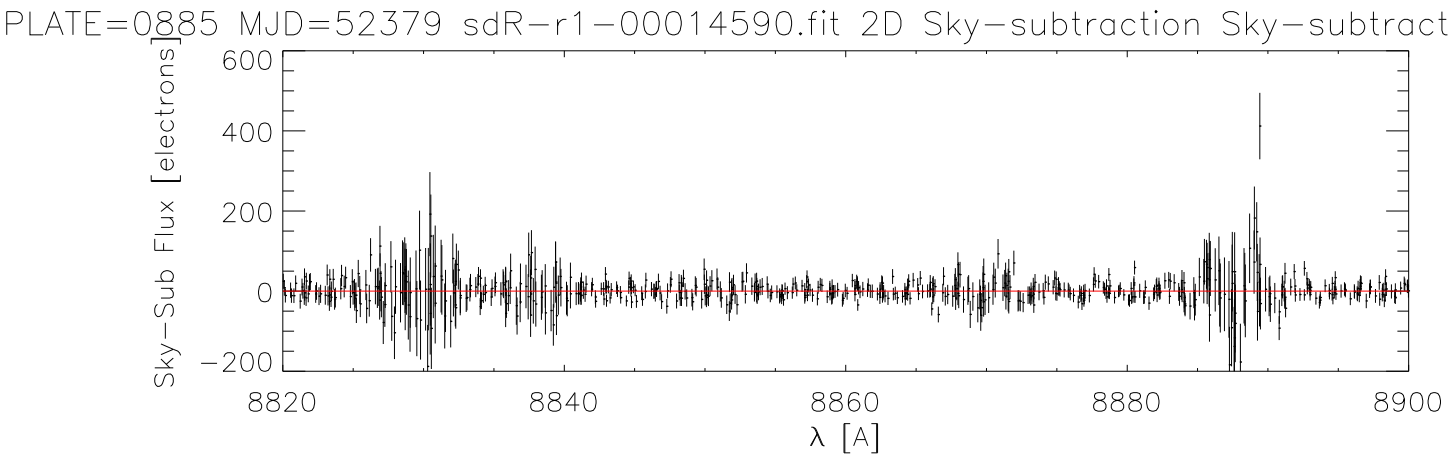

PLATE=0885 MJD=52379 sdR-r1-00014590.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

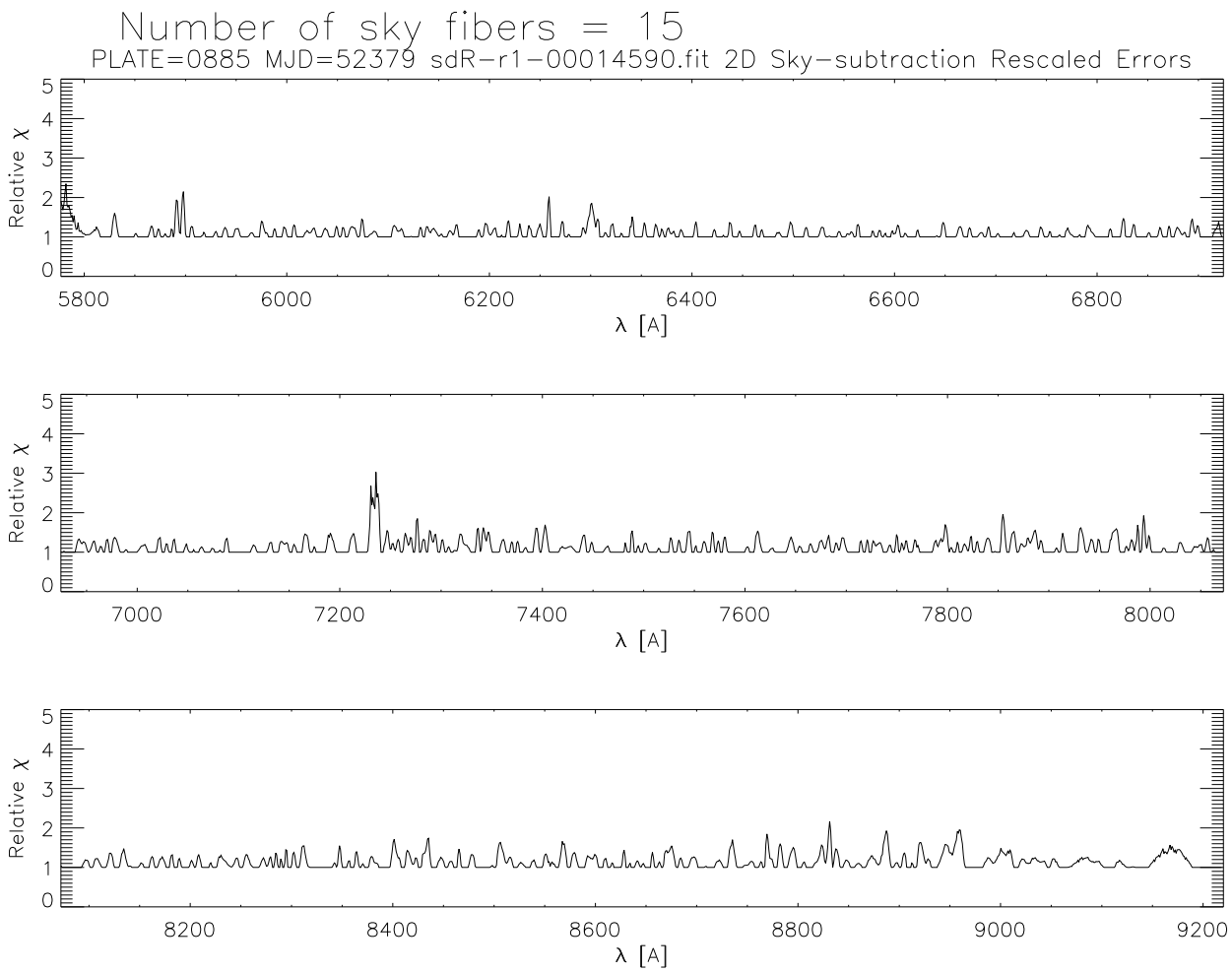

PLATE=0885 MJD=52379 sdR-r1-00014590.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

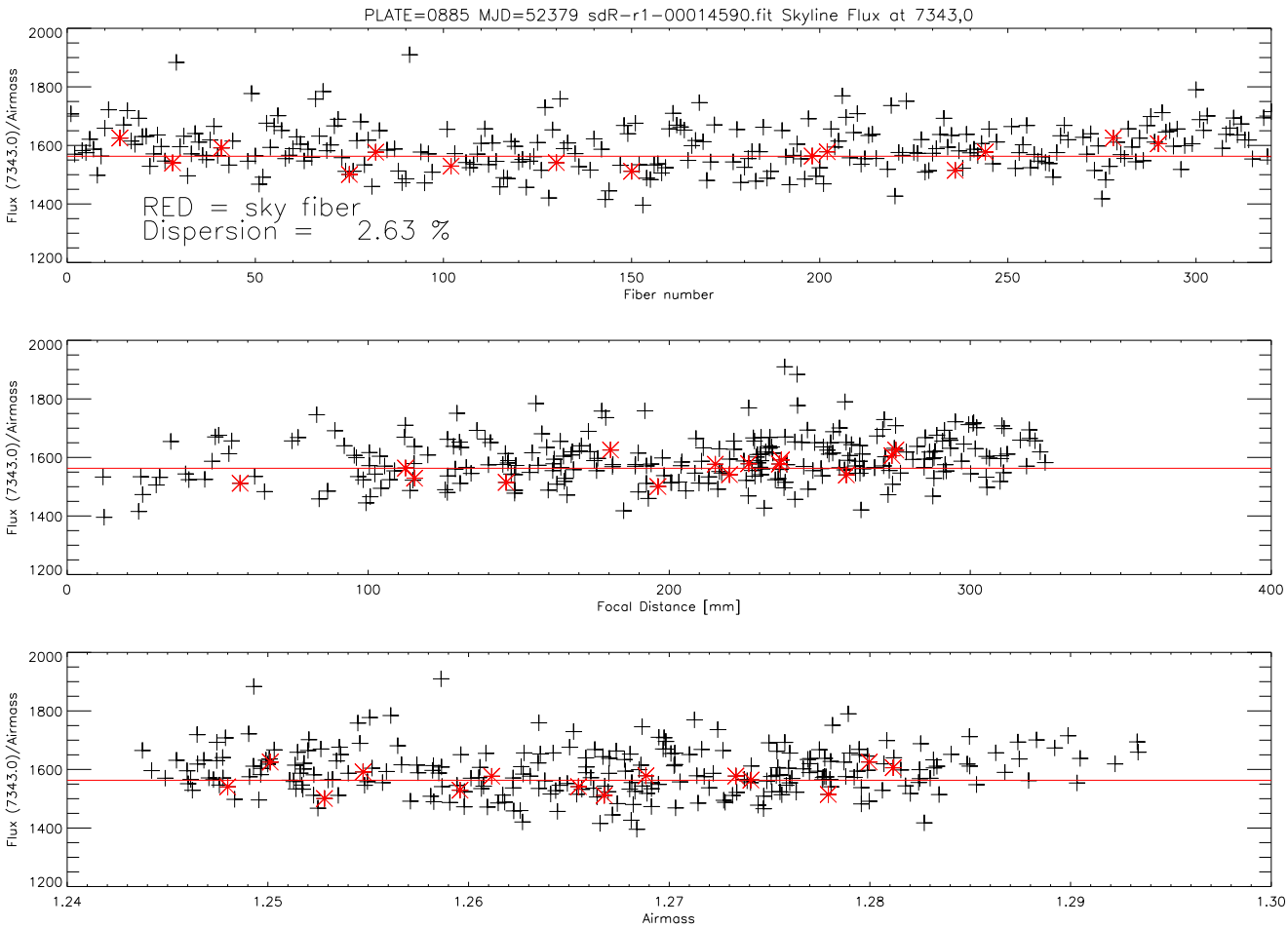

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-r1-00014590.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

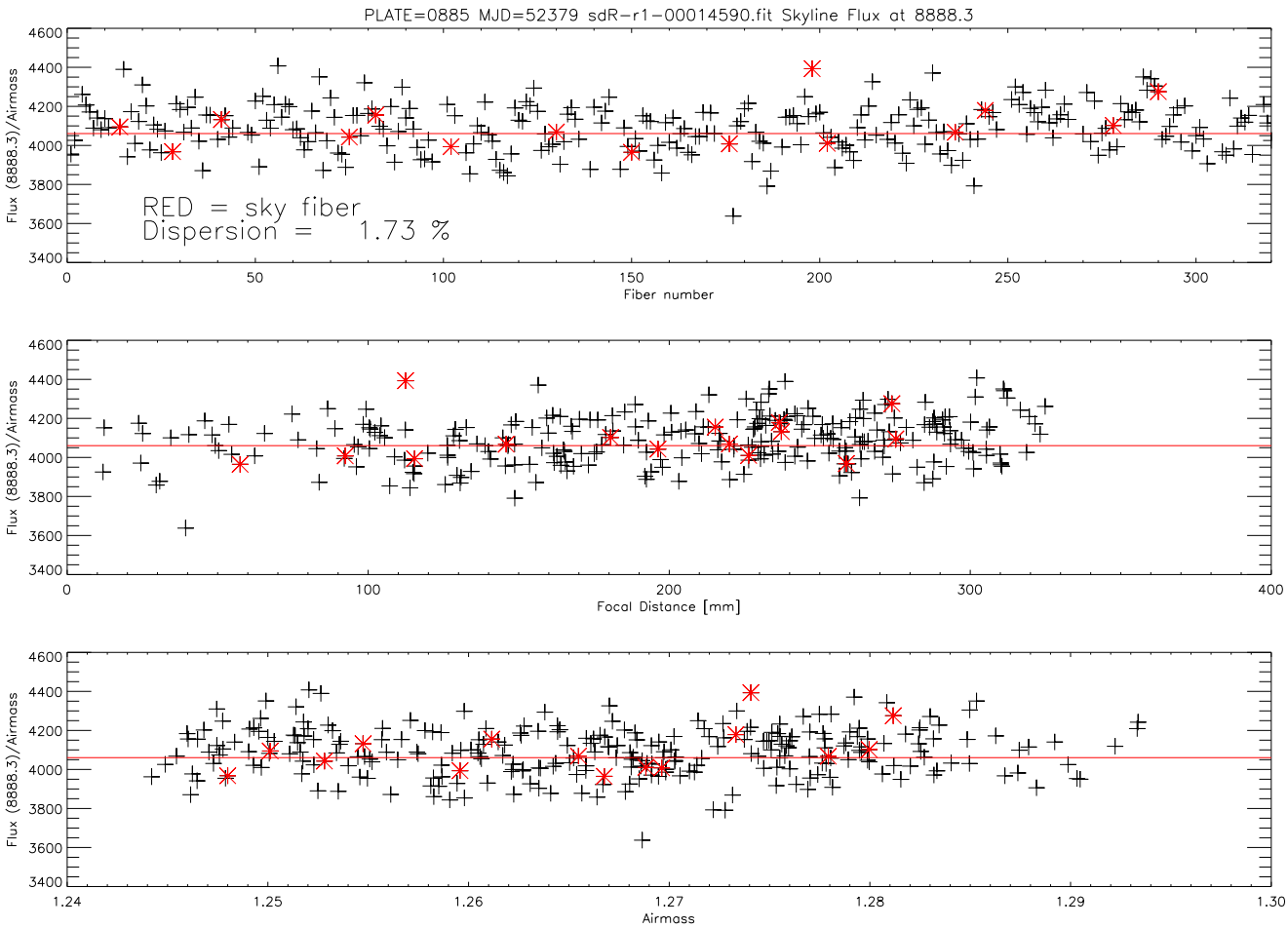

PLATE=0885 MJD=52379 sdR-r1-00014590.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

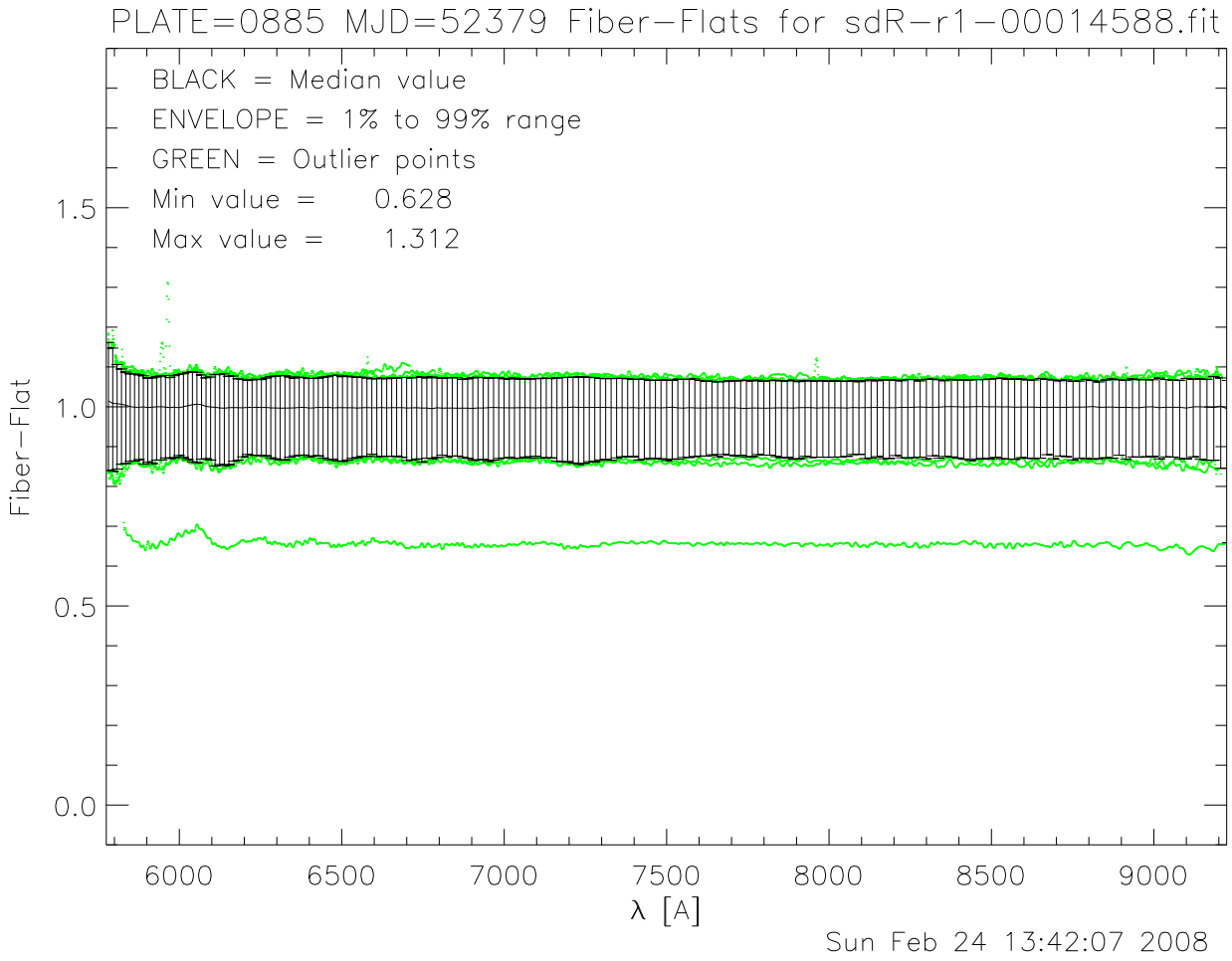

PLATE=0885 MJD=52379 sdR-r1-00014590.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

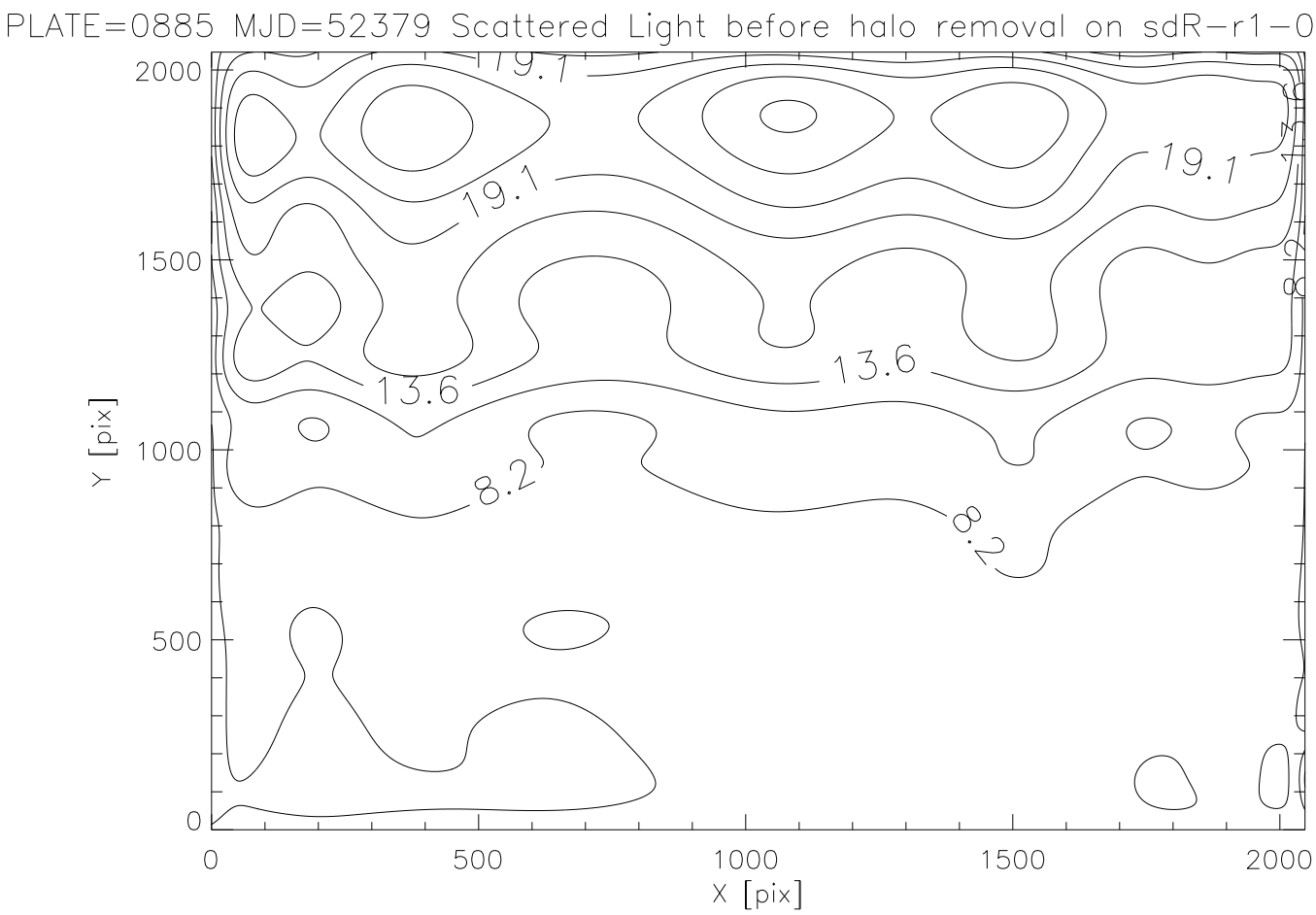

PLATE=0885 MJD=52379 sdR-r1-00014590.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

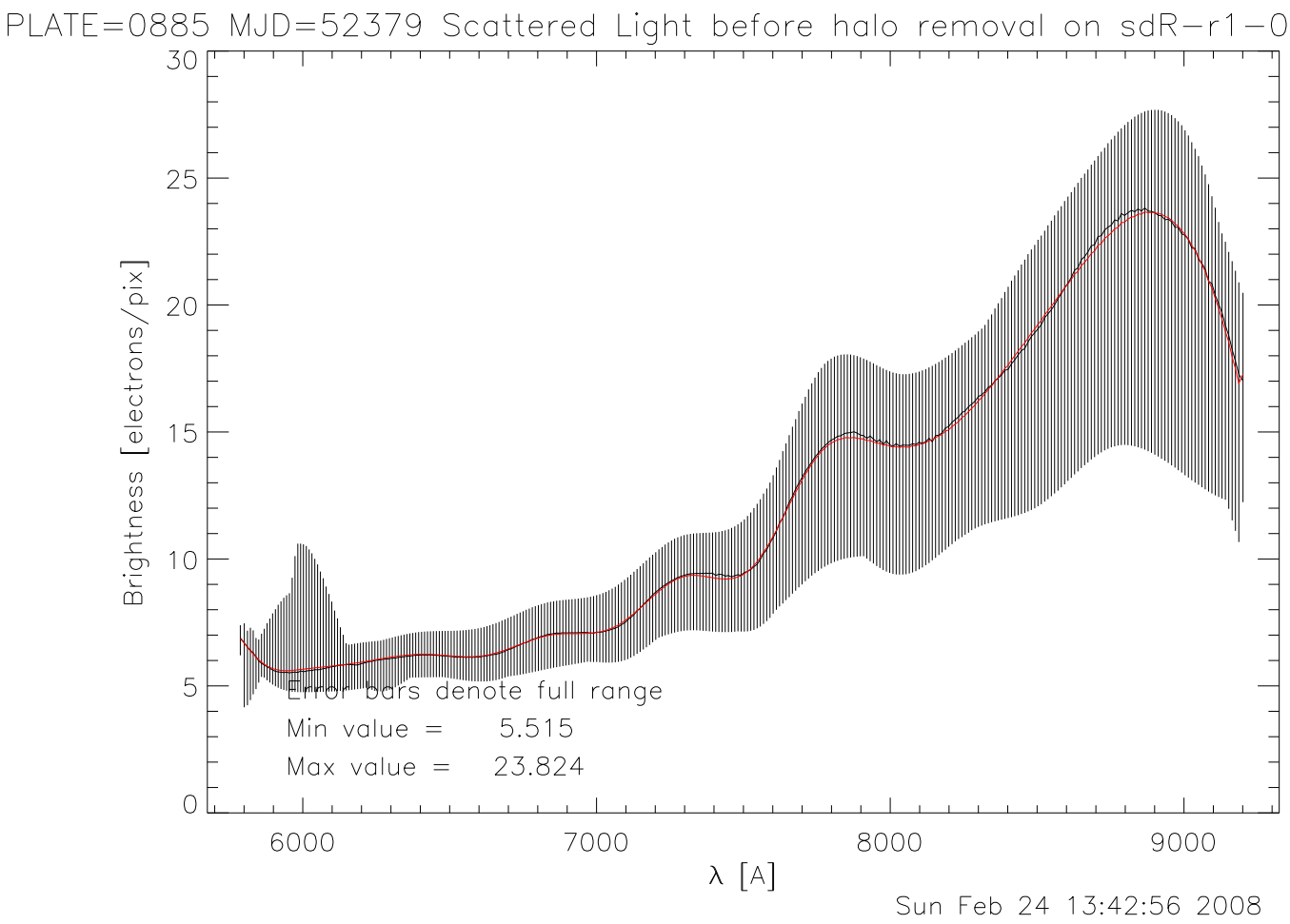

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-r1-00014590.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

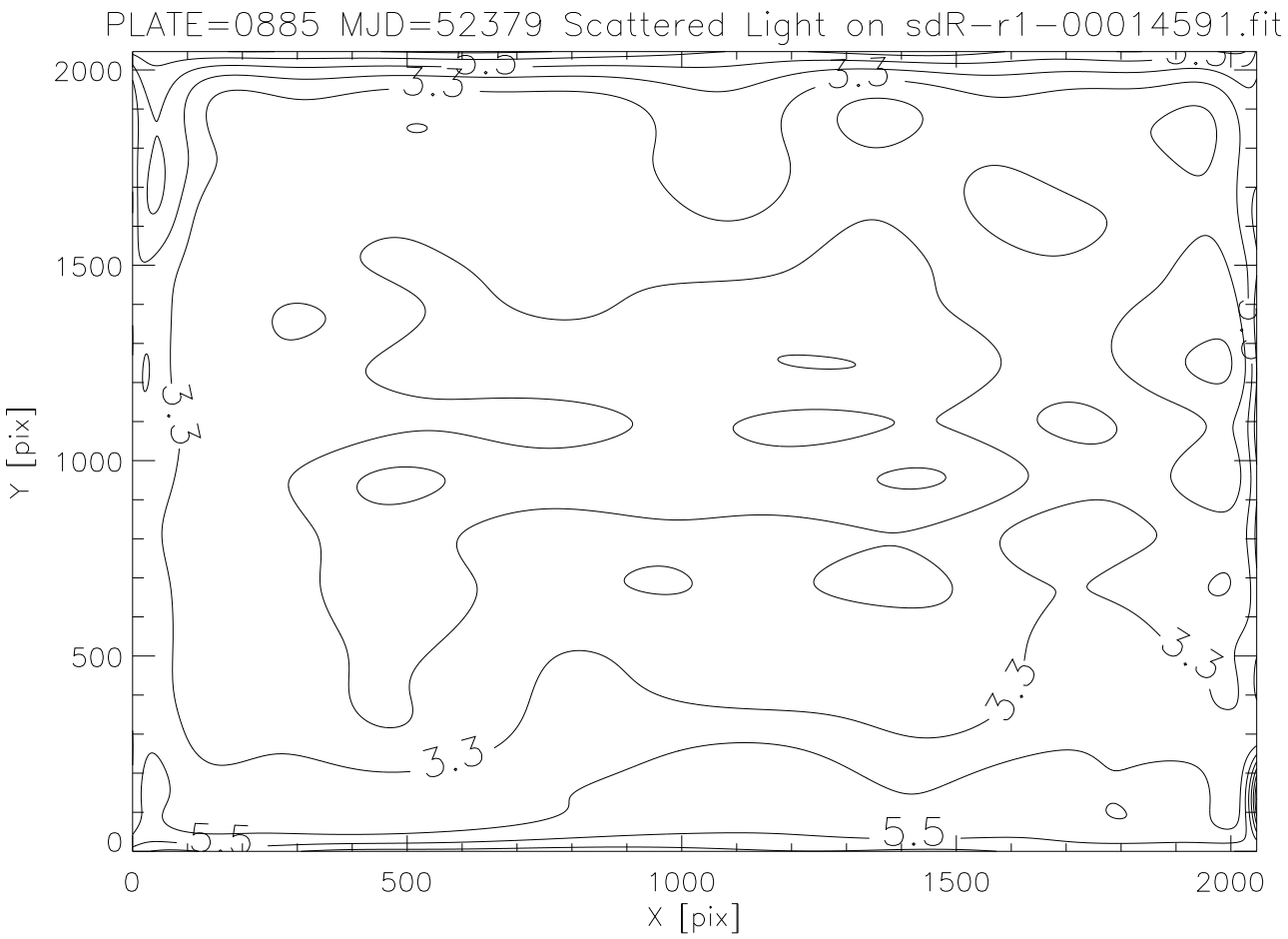

PLATE=0885 MJD=52379 sdR-r1-00014590.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.63 %
Fiber number
Focal Distance [mm]
Airmass

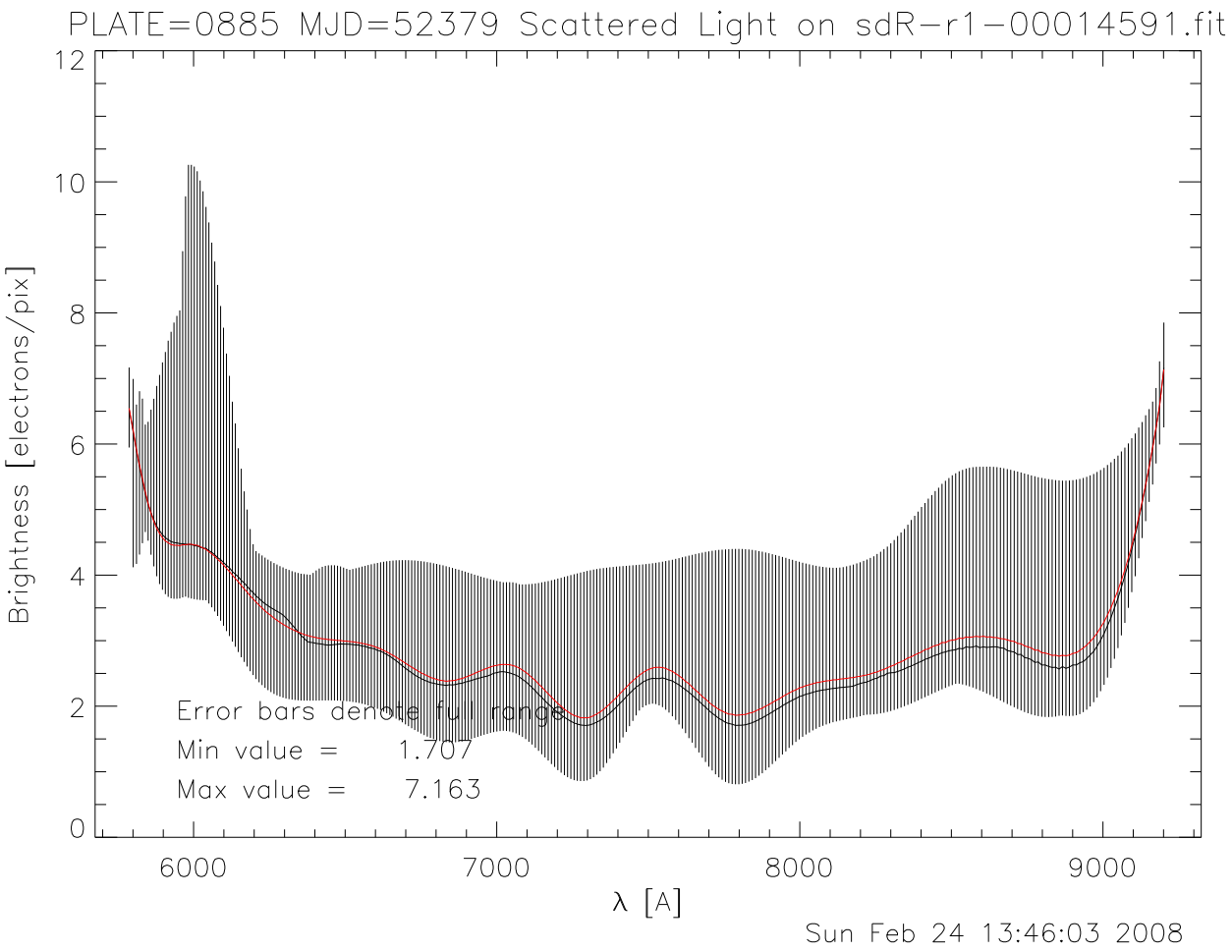

PLATE=0885 MJD=52379 sdR-r1-00014590.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.73 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

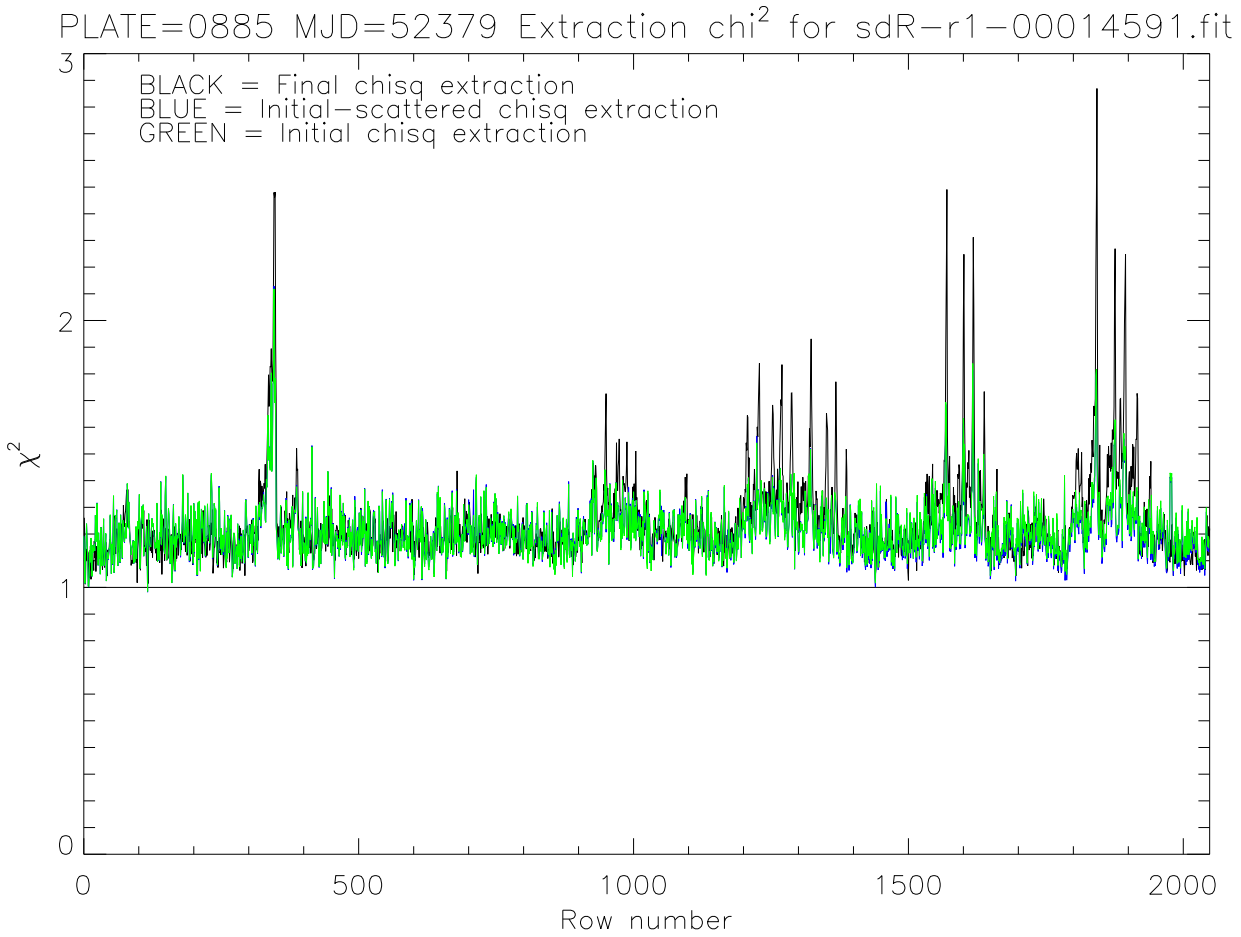

PLATE=0885 MJD=52379 Fiber−Flats for sdR−r1−00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.628
Max value = 1.312
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 24 13:42:07 2008

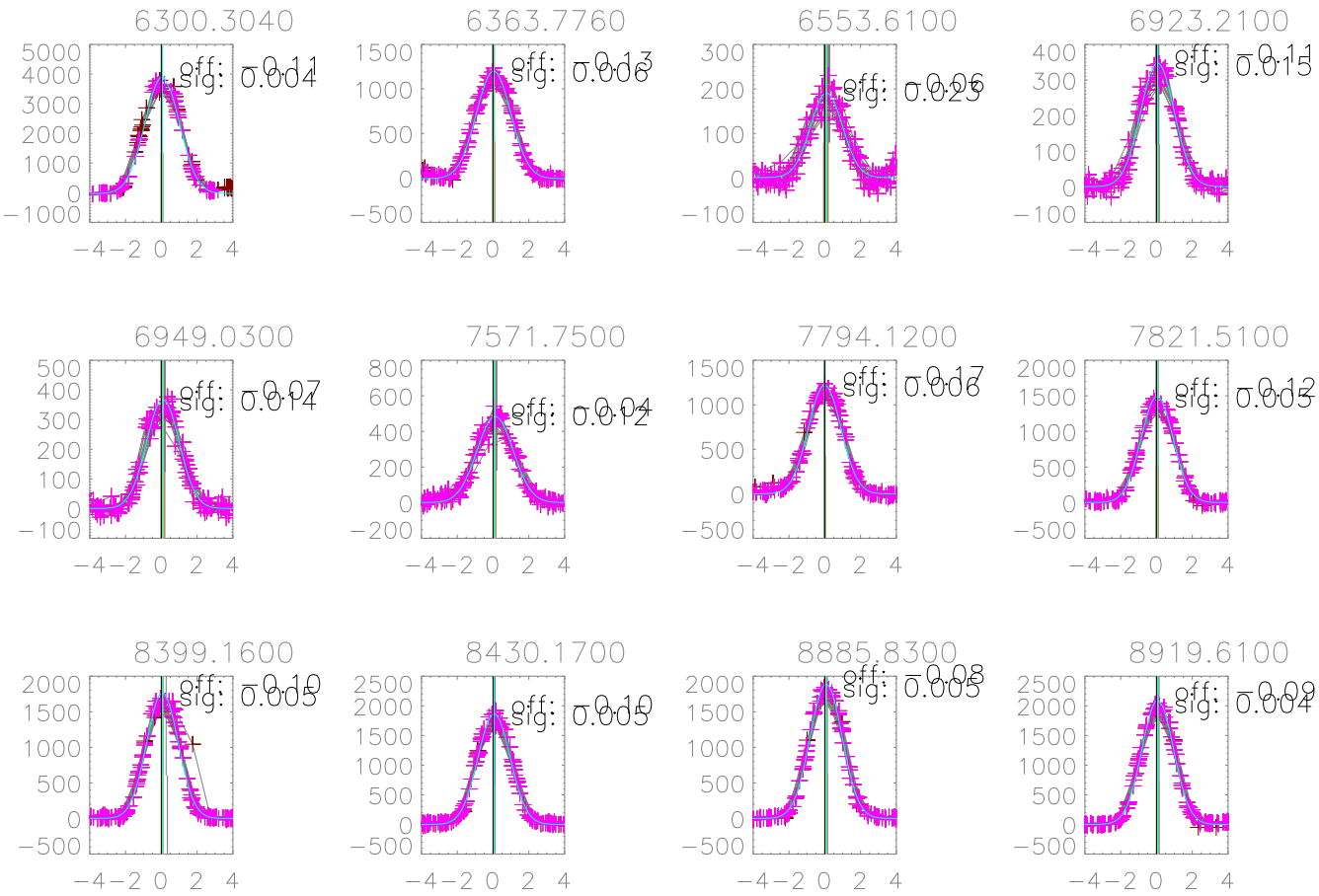

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r1-00014591.fi
19.1
19.1
19.1
13.6
13.6
8.2
8.2
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

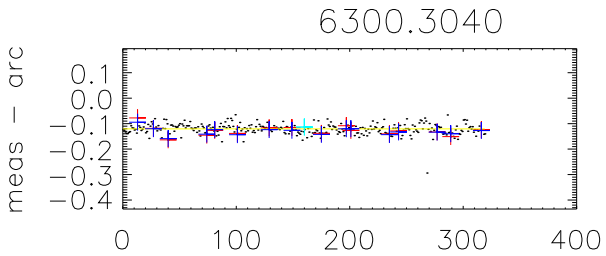

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r1-00014591.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.515
Max value = 23.824
Sun Feb 24 13:42:56 2008

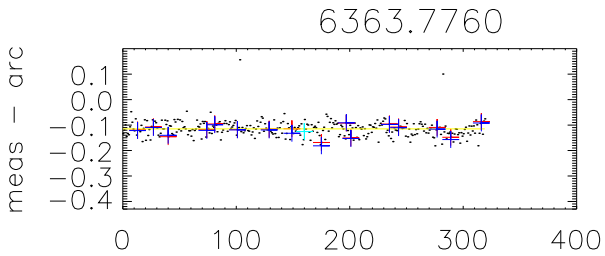

PLATE=0885 MJD=52379 Scattered Light on sdR-r1-00014591.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.3
5.5

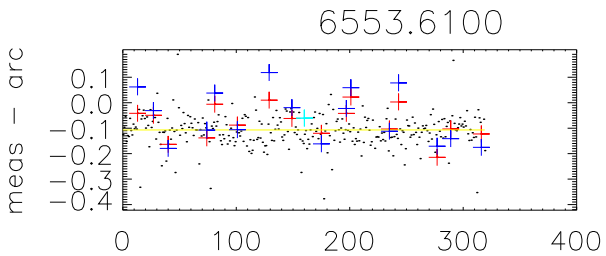

PLATE=0885 MJD=52379 Scattered Light on sdR-r1-00014591.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.707
Max value = 7.163
Sun Feb 24 13:46:03 2008

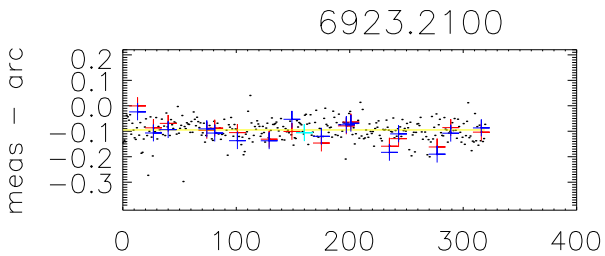

PLATE=0885 MJD=52379 Extraction chi^2 for sdR−r1−00014591.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

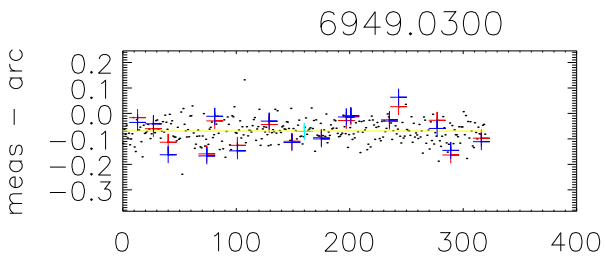

6300.3040
off: -0.11
sig: 0.004
6363.7760
off: -0.13
sig: 0.006
6553.6100
off: -0.06
sig: 0.023
6923.2100
off: -0.11
sig: 0.015
6949.0300
off: -0.07
sig: 0.014
7571.7500
off: -0.04
sig: 0.012
7794.1200
off: -0.17
sig: 0.006
7821.5100
off: -0.12
sig: 0.005
8399.1600
off: -0.10
sig: 0.005
8430.1700
off: -0.10
sig: 0.005
8885.8300
off: -0.08
sig: 0.005
8919.6100
off: -0.09
sig: 0.004

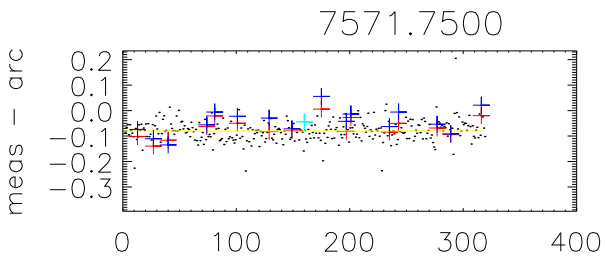

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

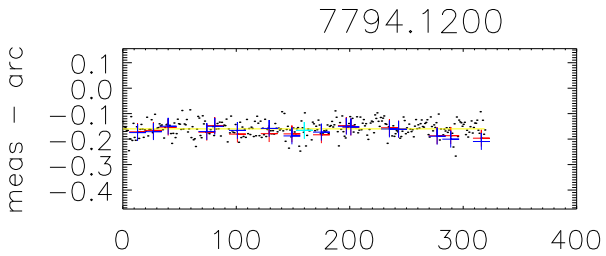

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

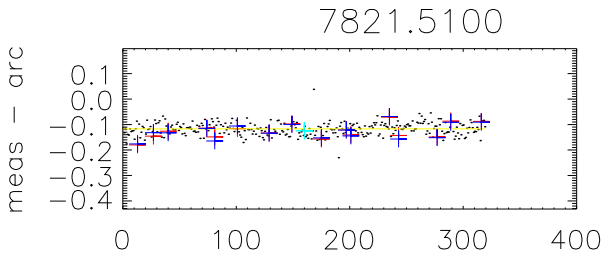

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

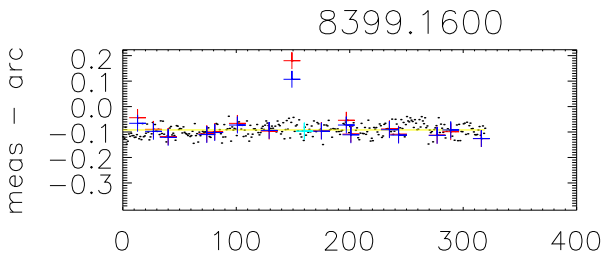

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

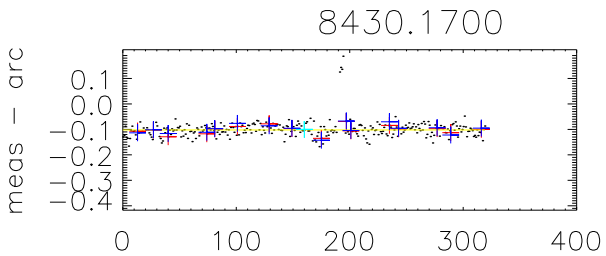

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

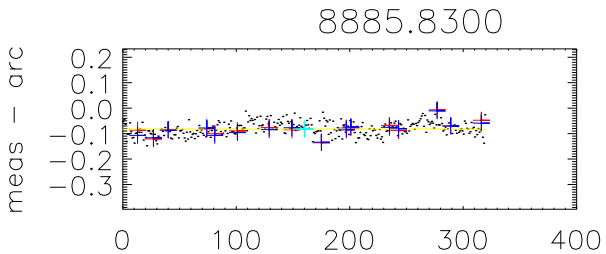

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

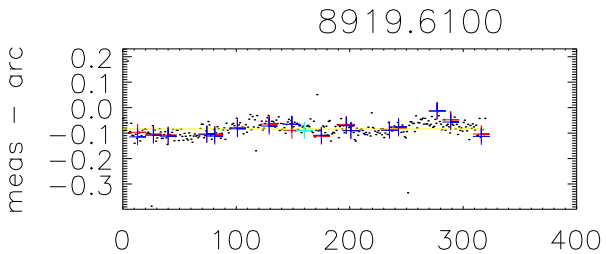

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

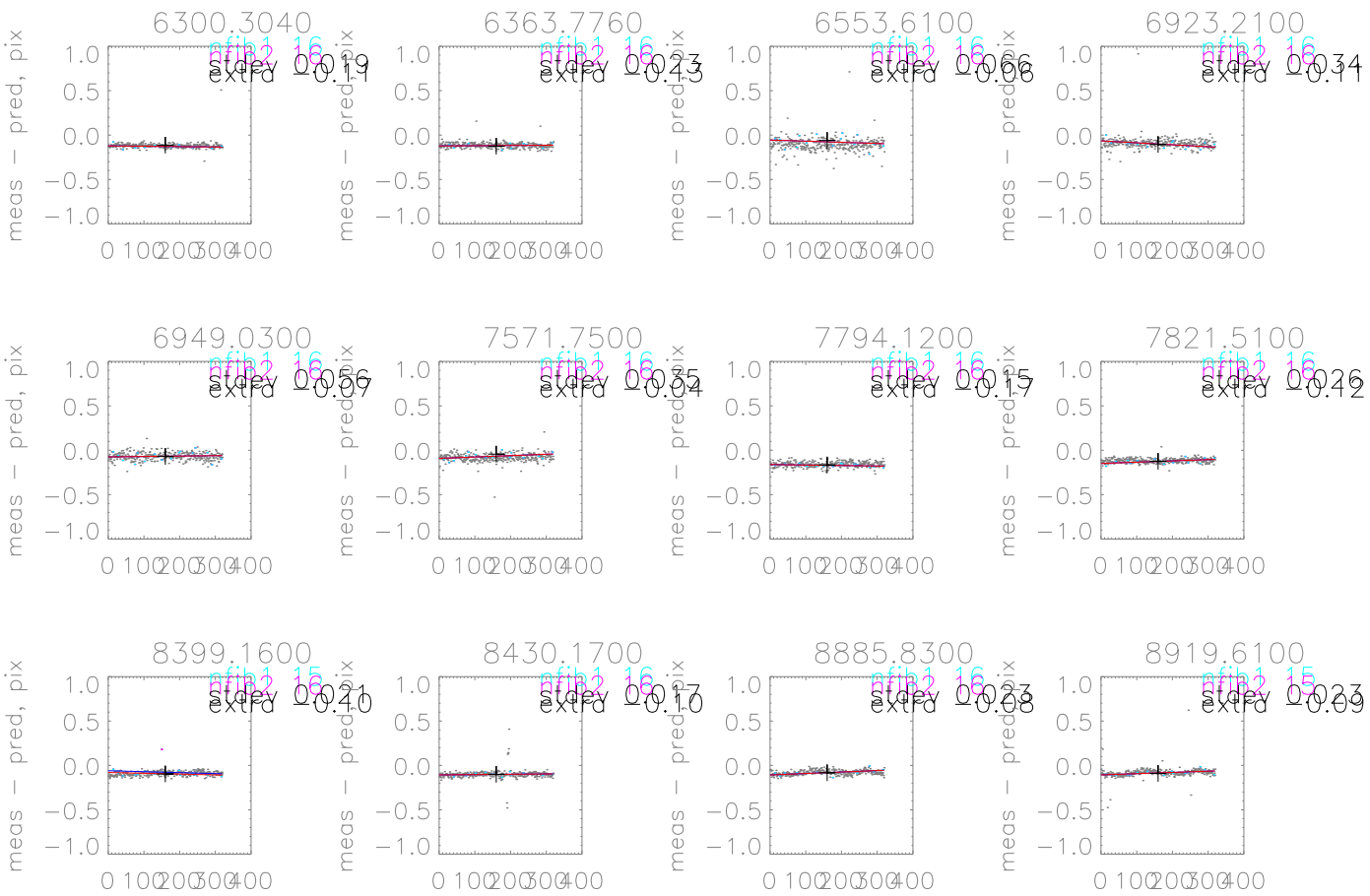

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

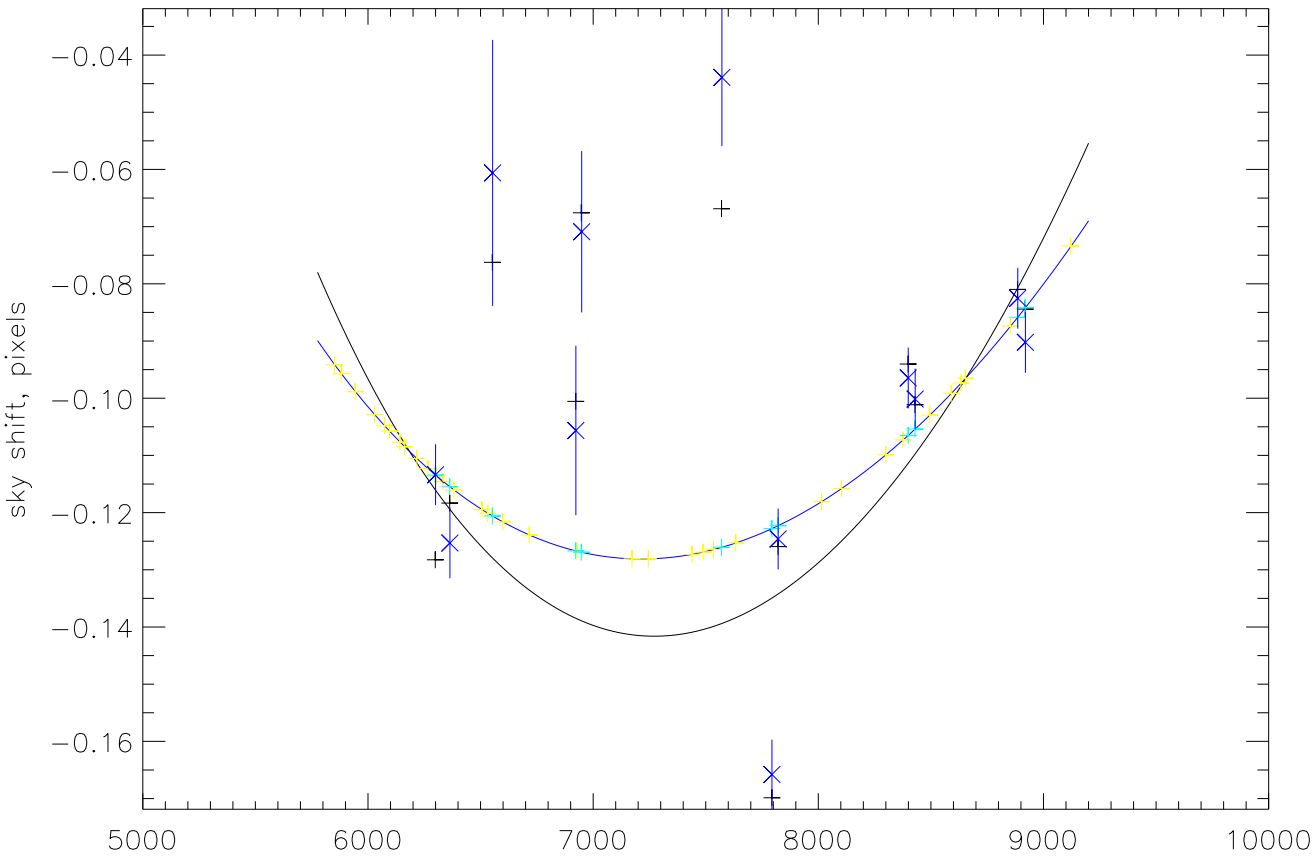

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

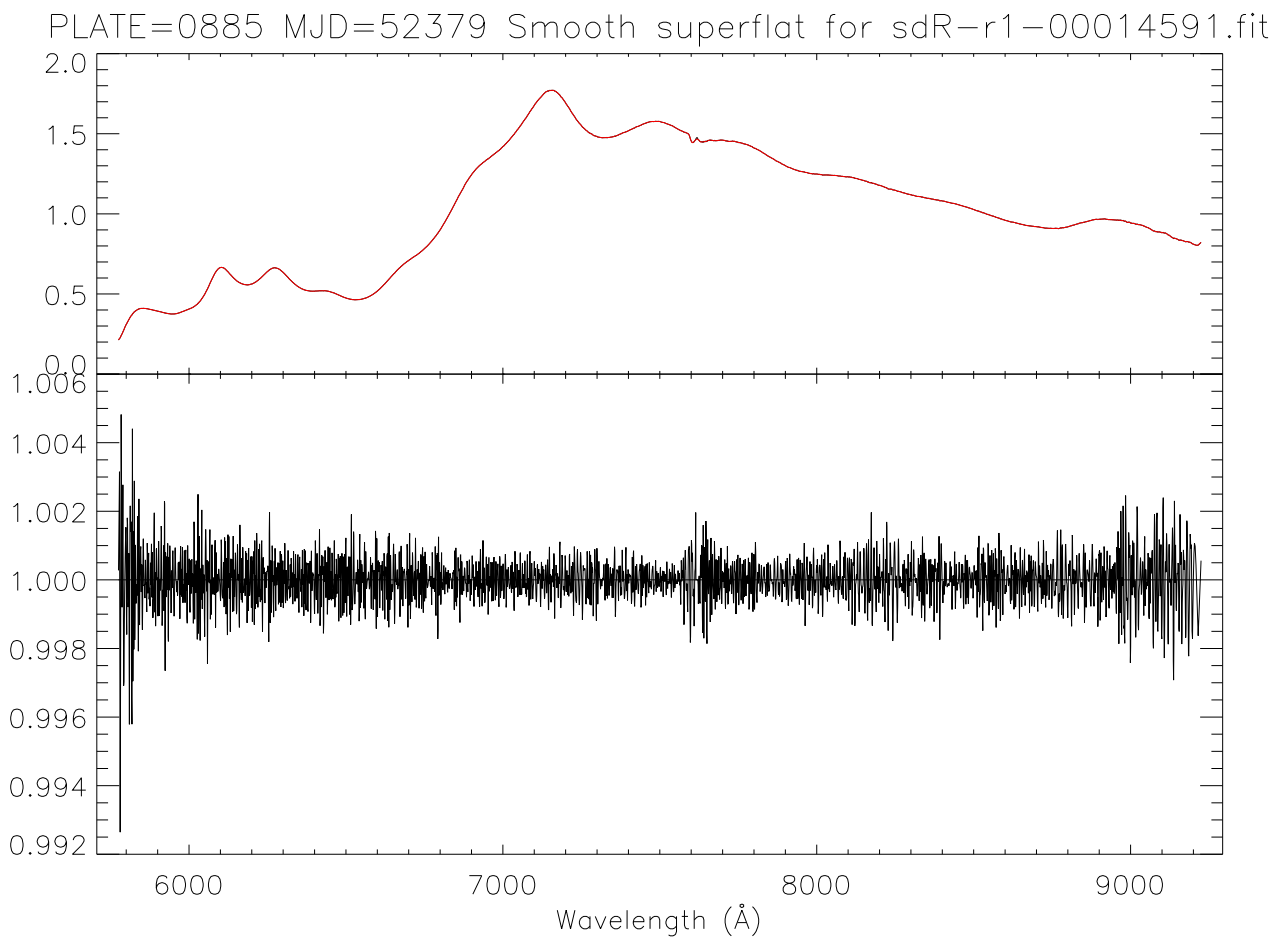

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

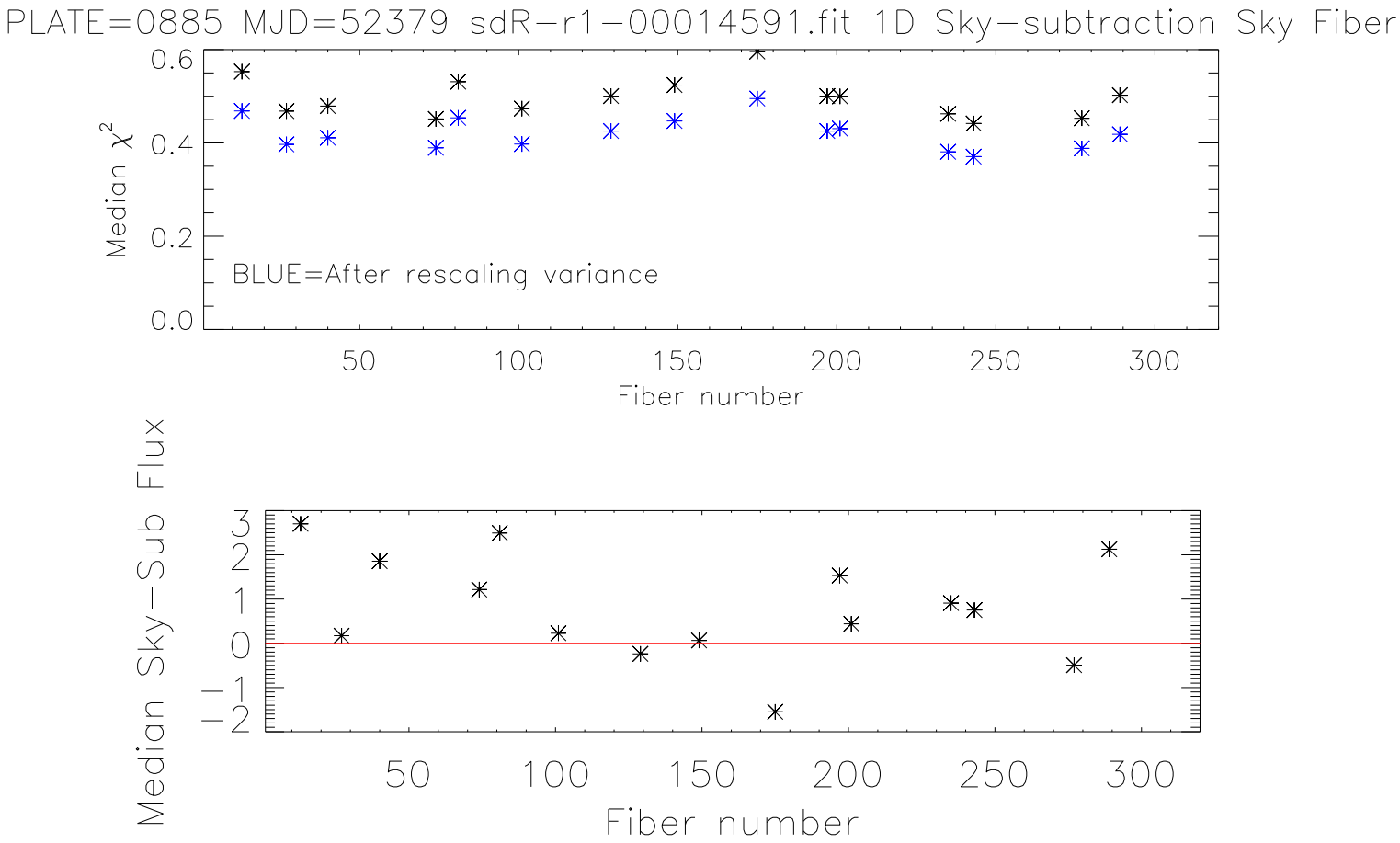

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

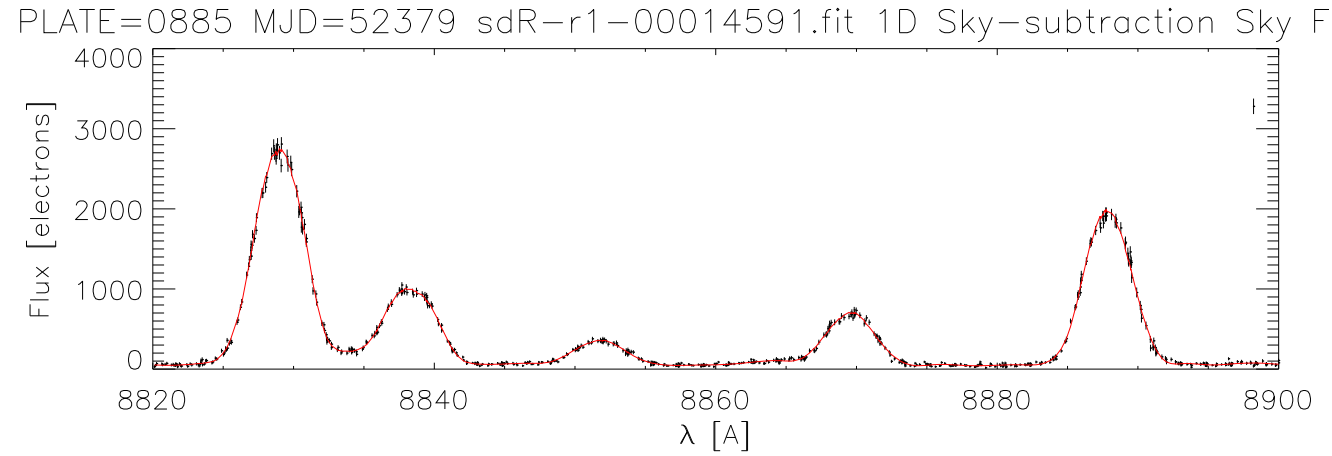

6300.3040
stdev 0.19
extra 0.11
6363.7760
stdev 0.23
extra 0.13
6553.6100
stdev 0.26
extra 0.08
6923.2100
stdev 0.34
extra 0.11
6949.0300
stdev 0.56
extra 0.07
7571.7500
stdev 0.35
extra 0.04
7794.1200
stdev 0.15
extra 0.17
7821.5100
stdev 0.26
extra 0.42
8399.1600
stdev 0.21
extra 0.40
8430.1700
stdev 0.17
extra 0.10
8885.8300
stdev 0.23
extra 0.08
8919.6100
stdev 0.23
extra 0.09
meas − pred, pix

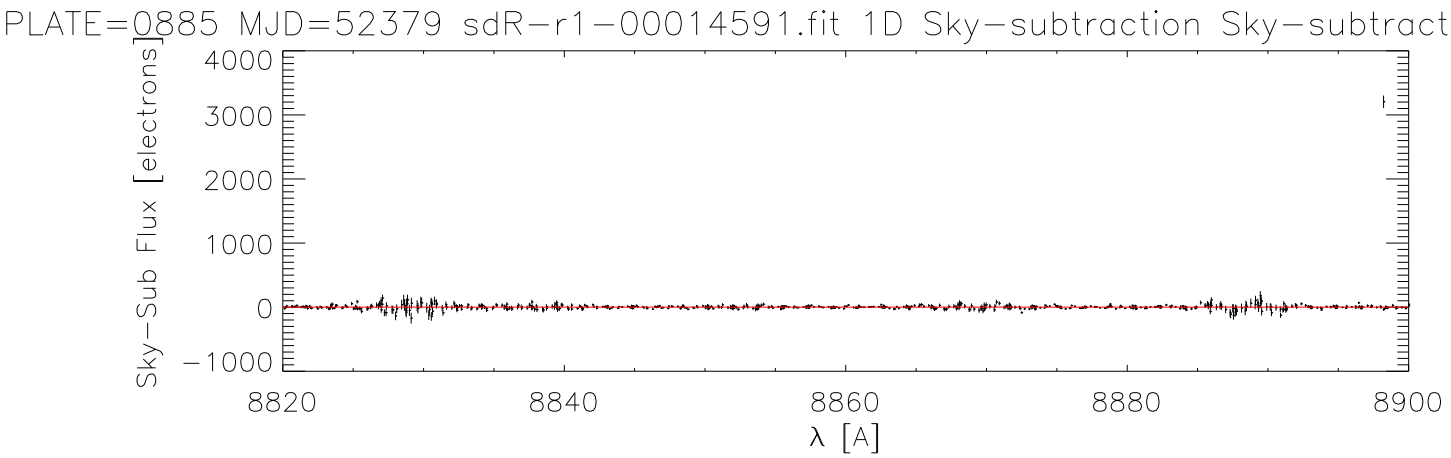

sky shift, pixels
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
5000
6000
7000
8000
9000
10000

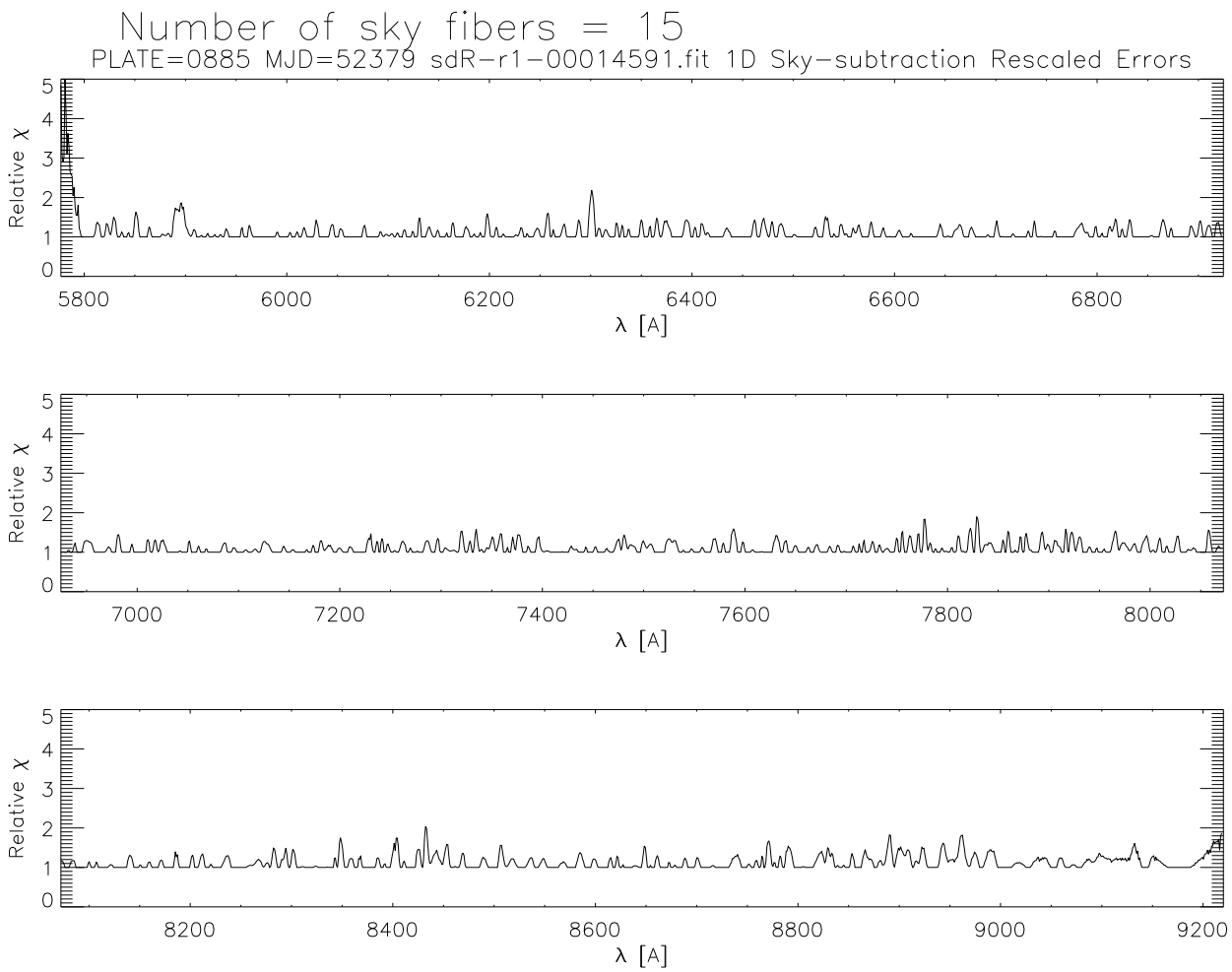
es= 0.0000

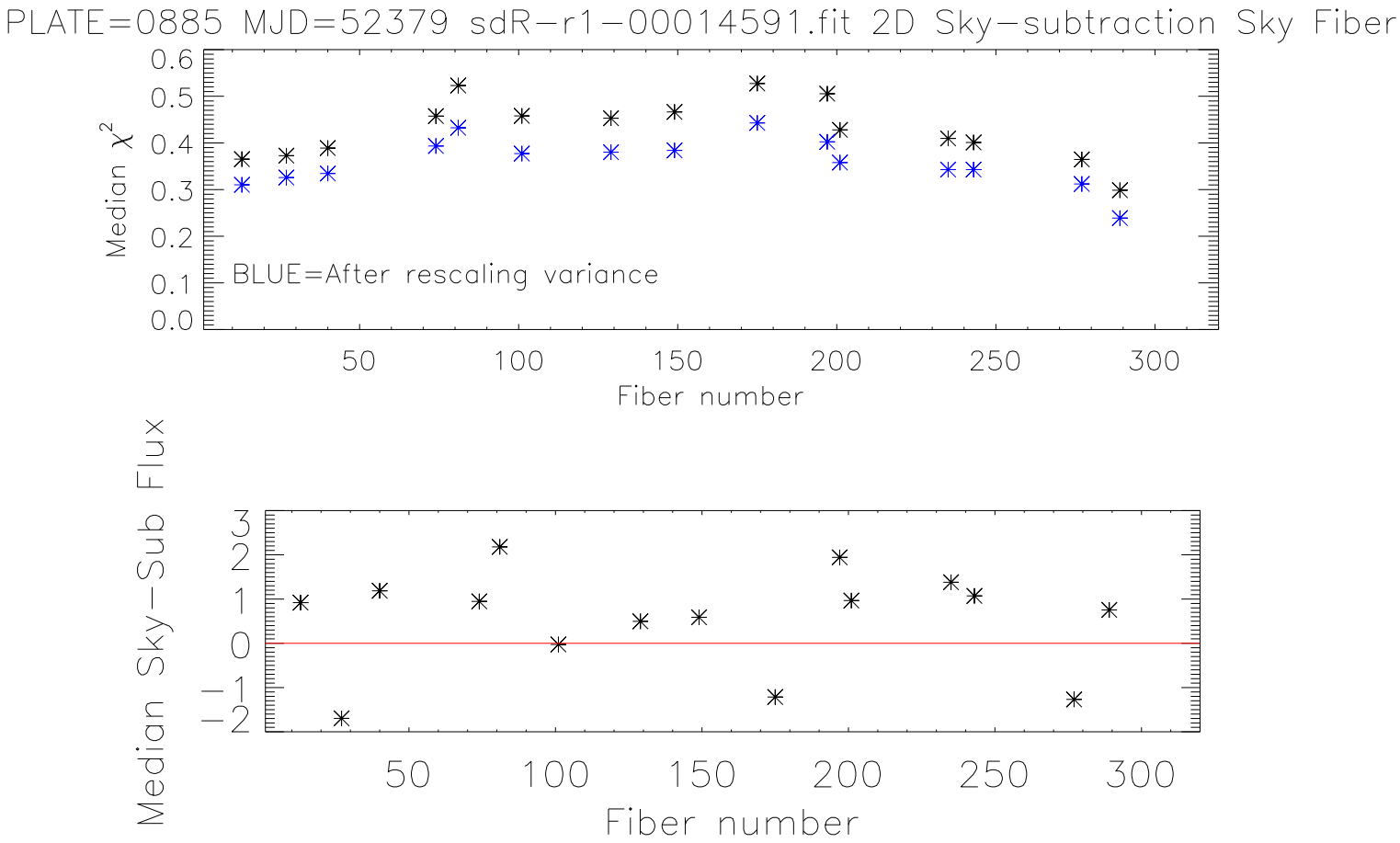

PLATE=0885 MJD=52379 Smooth superflat for sdR-r1-00014591.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

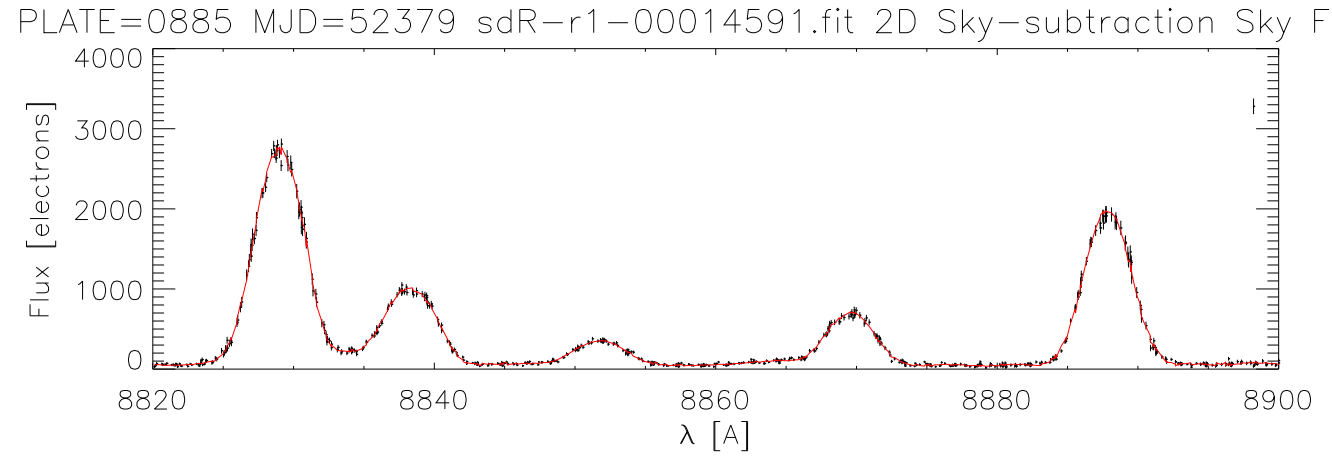

PLATE=0885 MJD=52379 sdR-r1-00014591.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

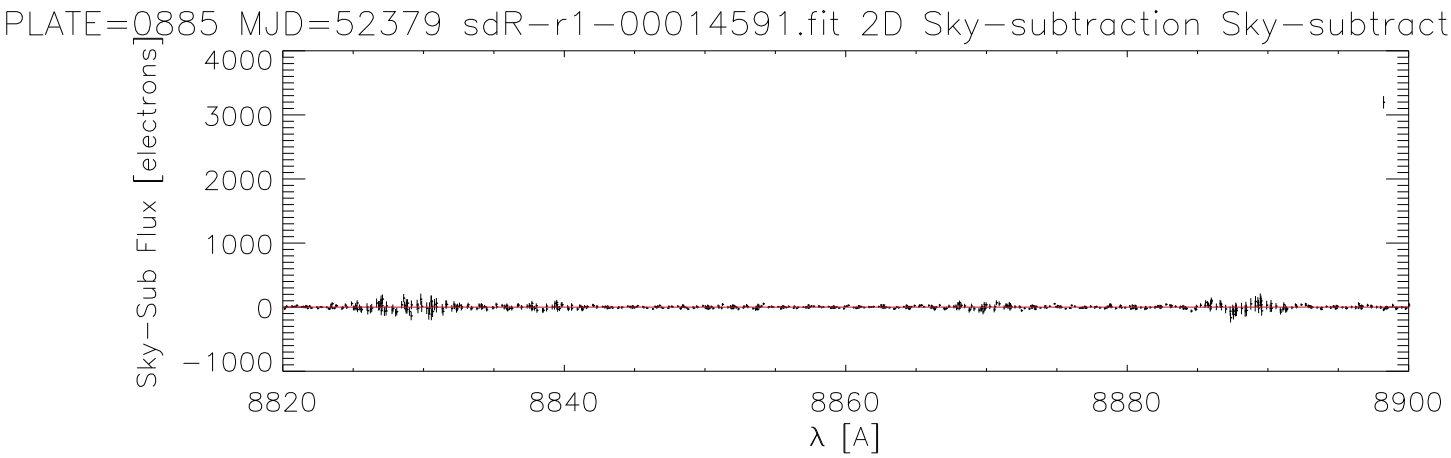

PLATE=0885 MJD=52379 sdR-r1-00014591.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

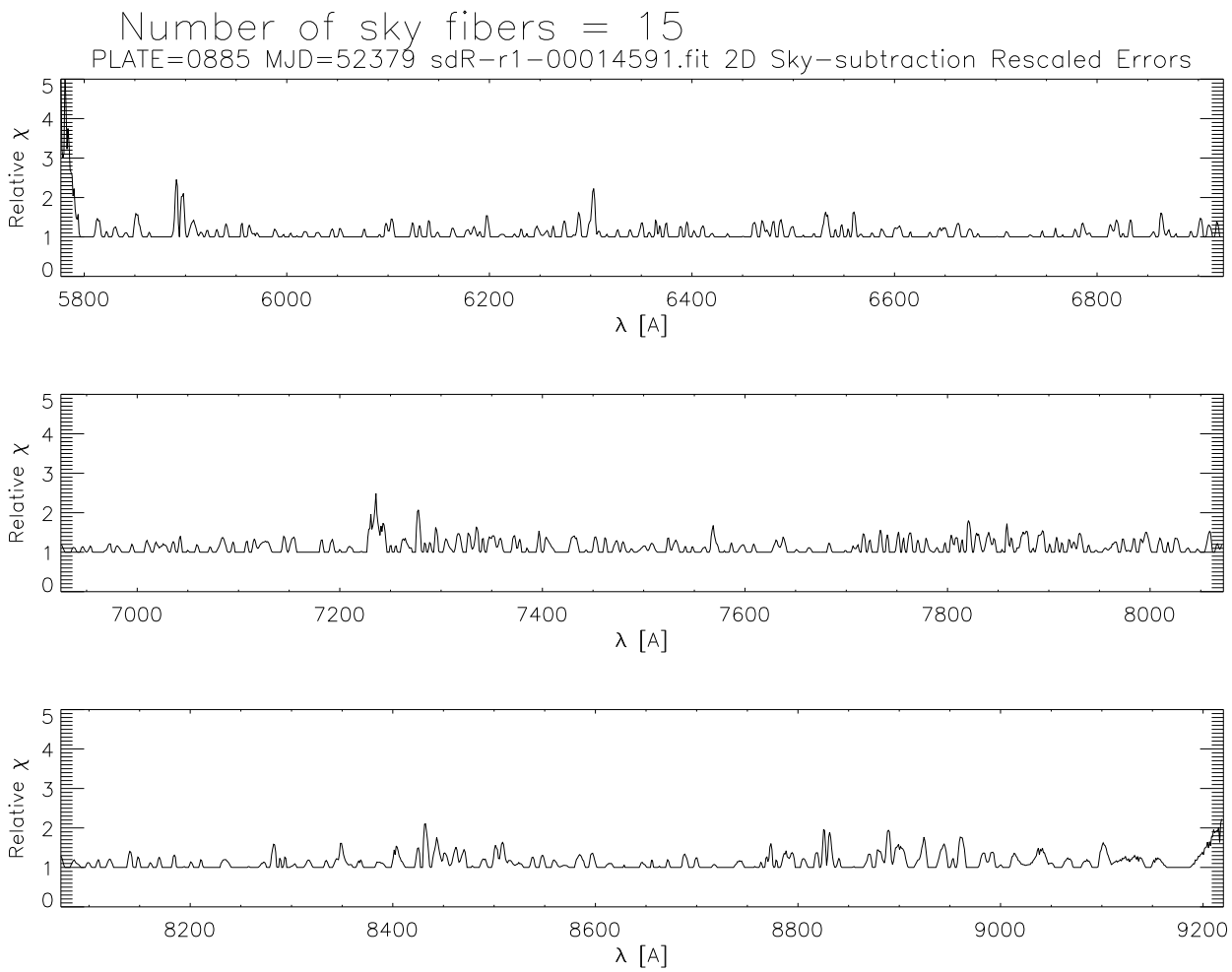

PLATE=0885 MJD=52379 sdR-r1-00014591.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

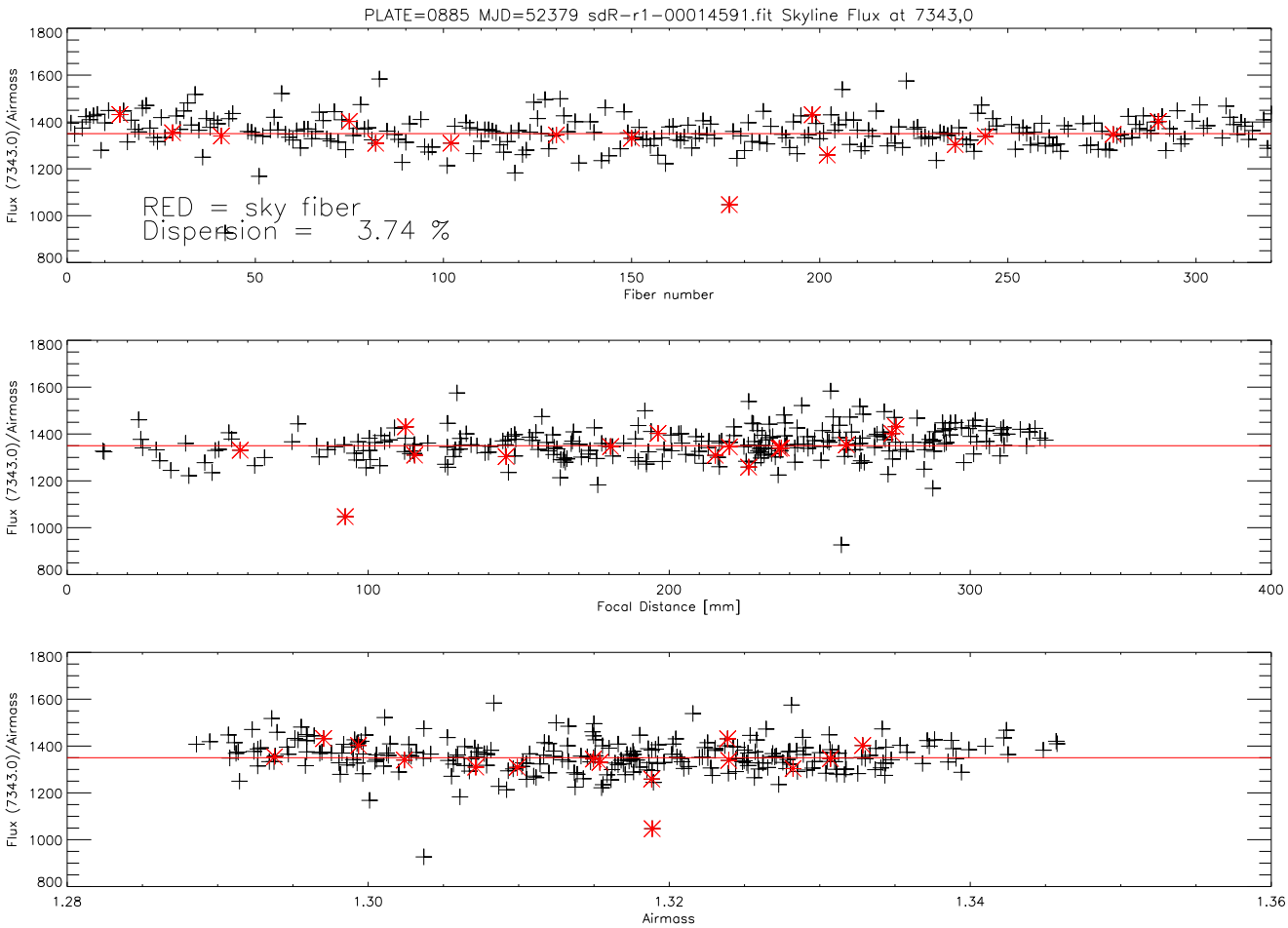

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-r1-00014591.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

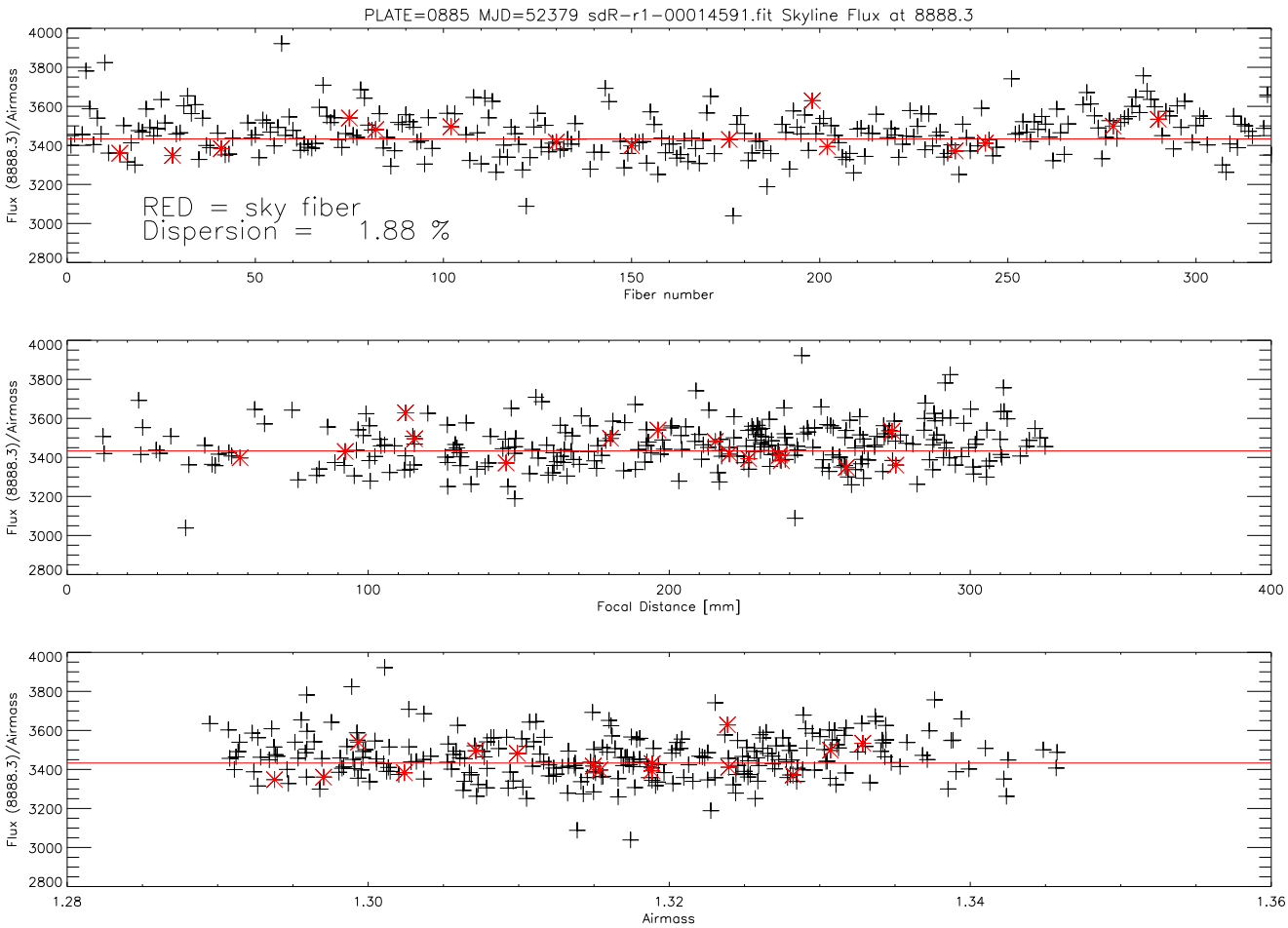

PLATE=0885 MJD=52379 sdR-r1-00014591.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

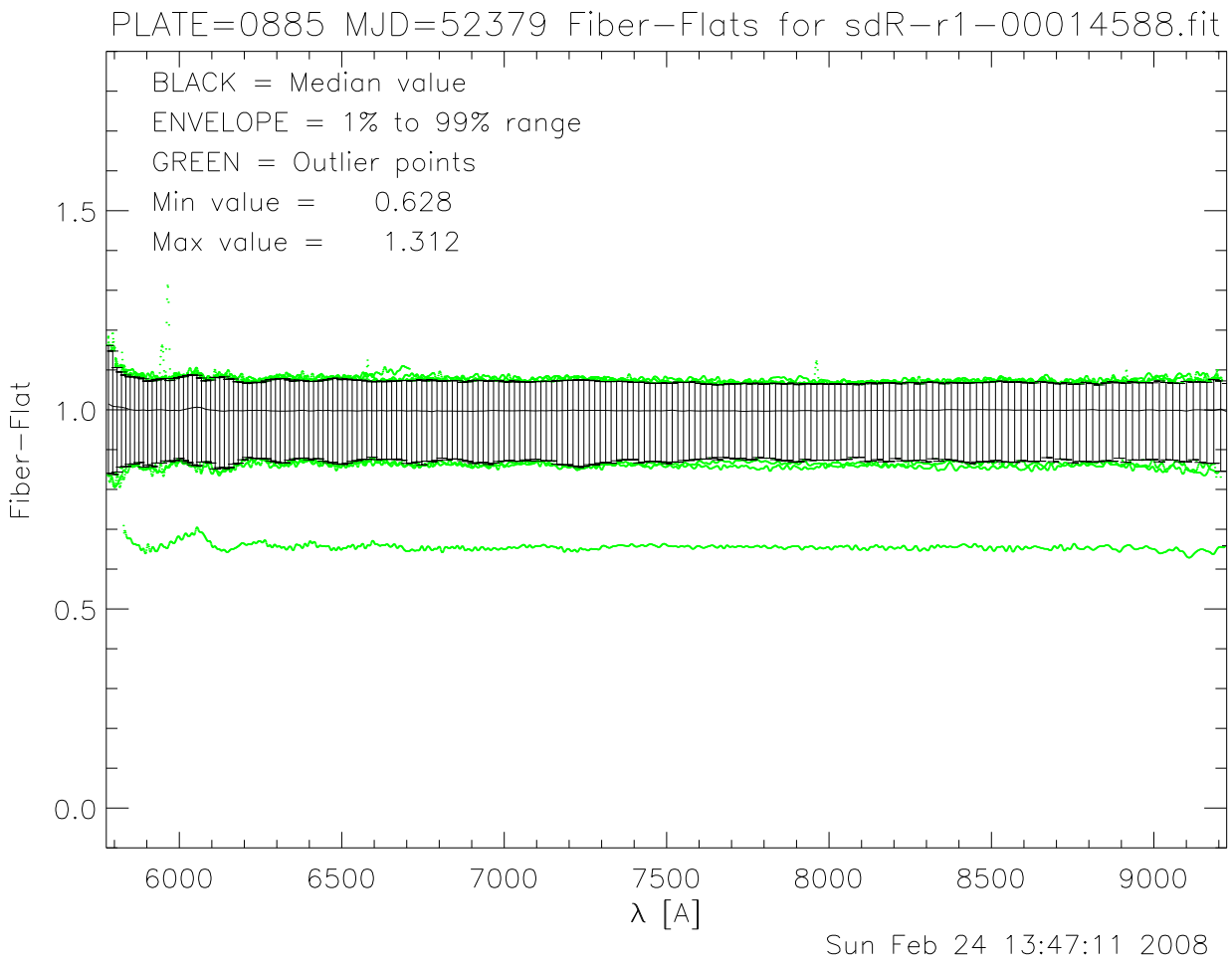

PLATE=0885 MJD=52379 sdR-r1-00014591.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

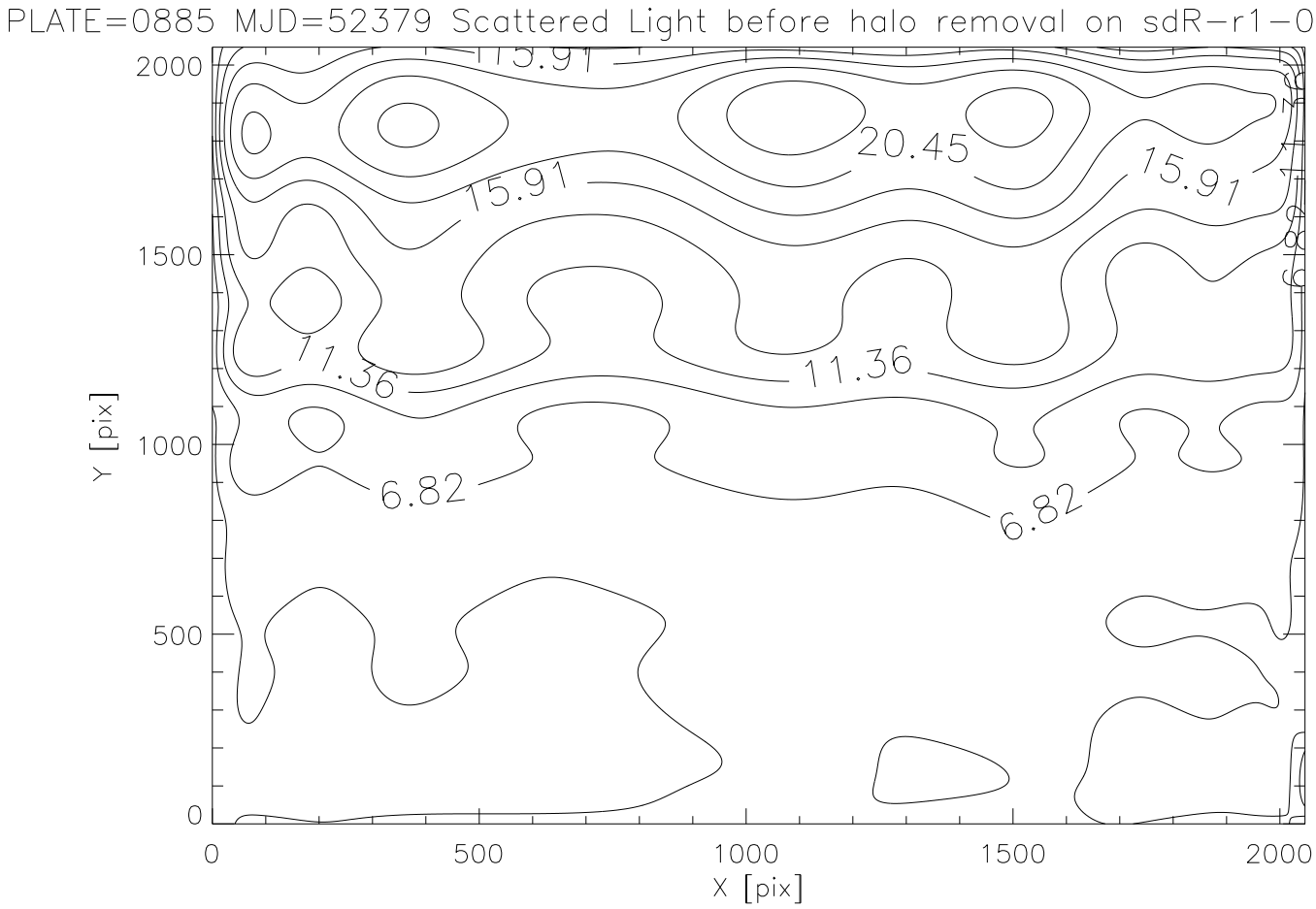

PLATE=0885 MJD=52379 sdR-r1-00014591.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

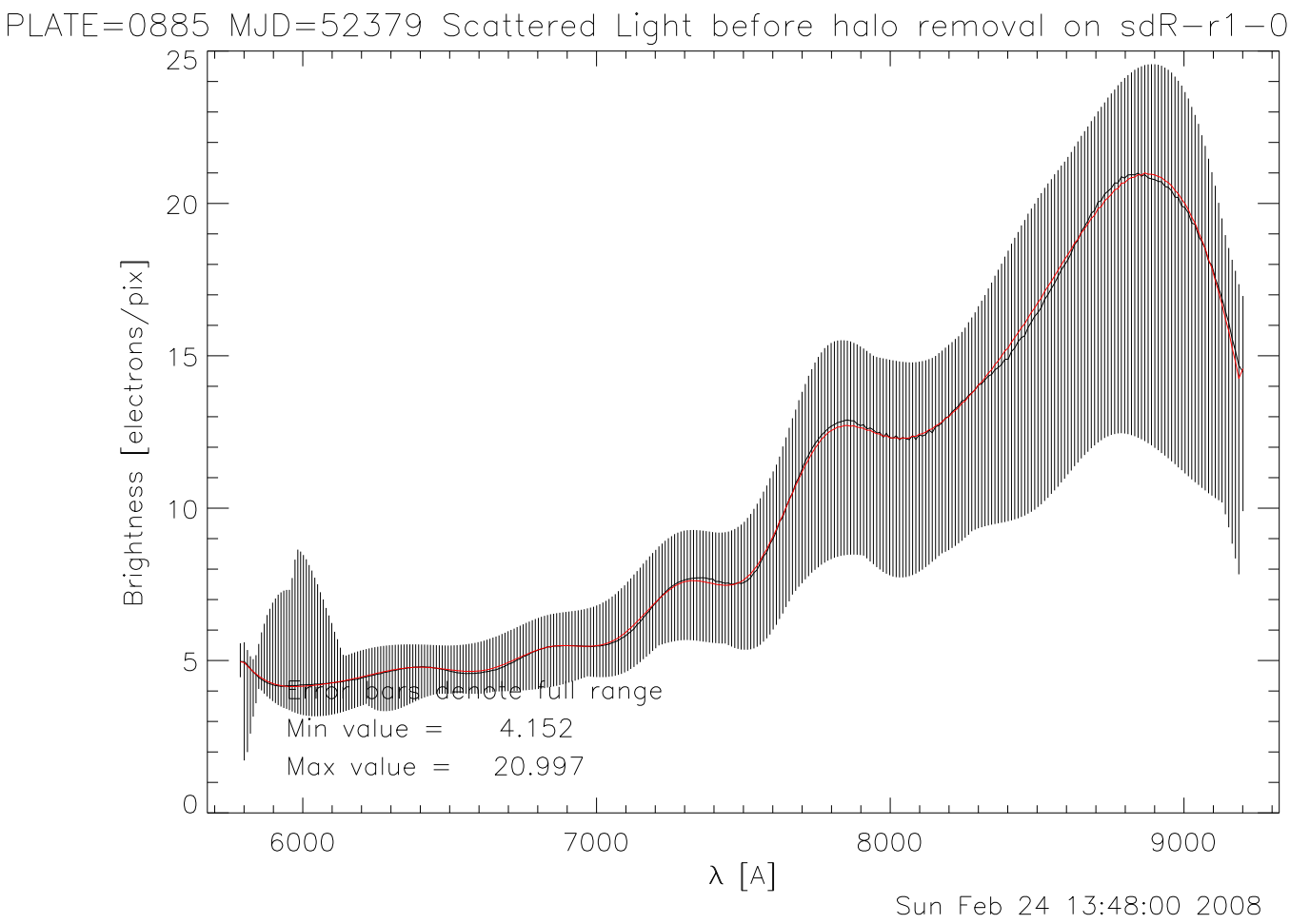

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-r1-00014591.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

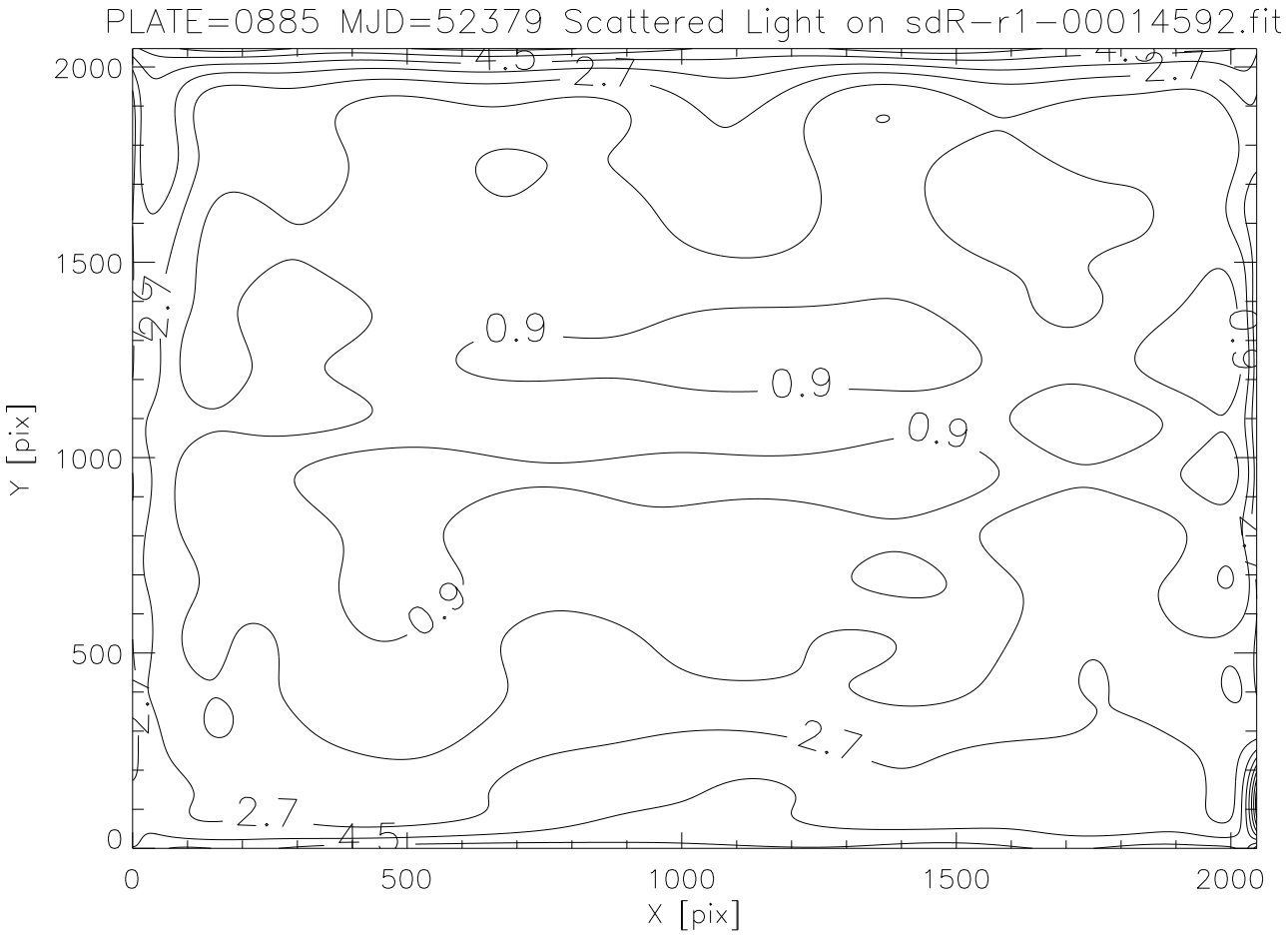

PLATE=0885 MJD=52379 sdR-r1-00014591.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.74 %
Fiber number
Focal Distance [mm]
Airmass

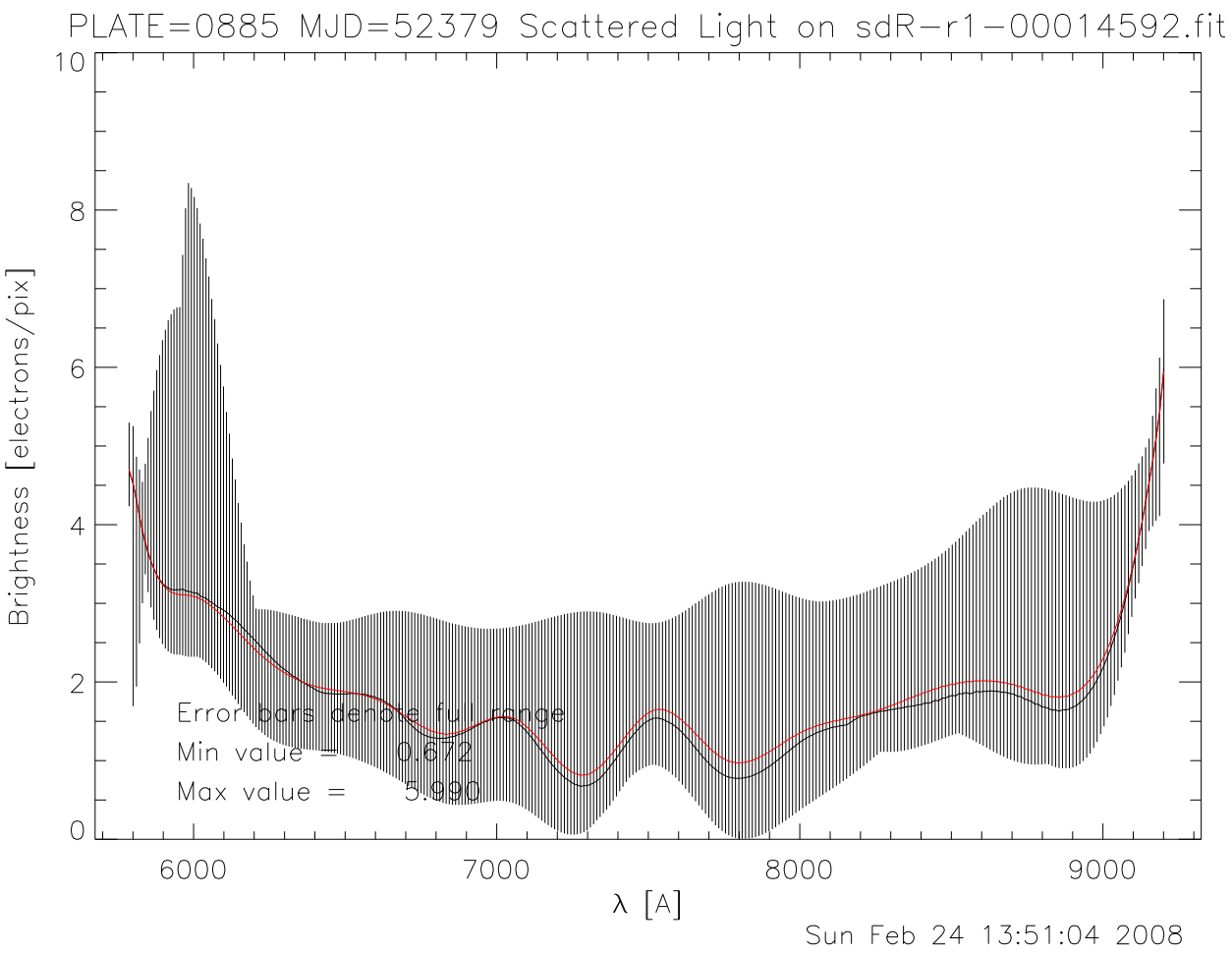

PLATE=0885 MJD=52379 sdR-r1-00014591.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.88 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

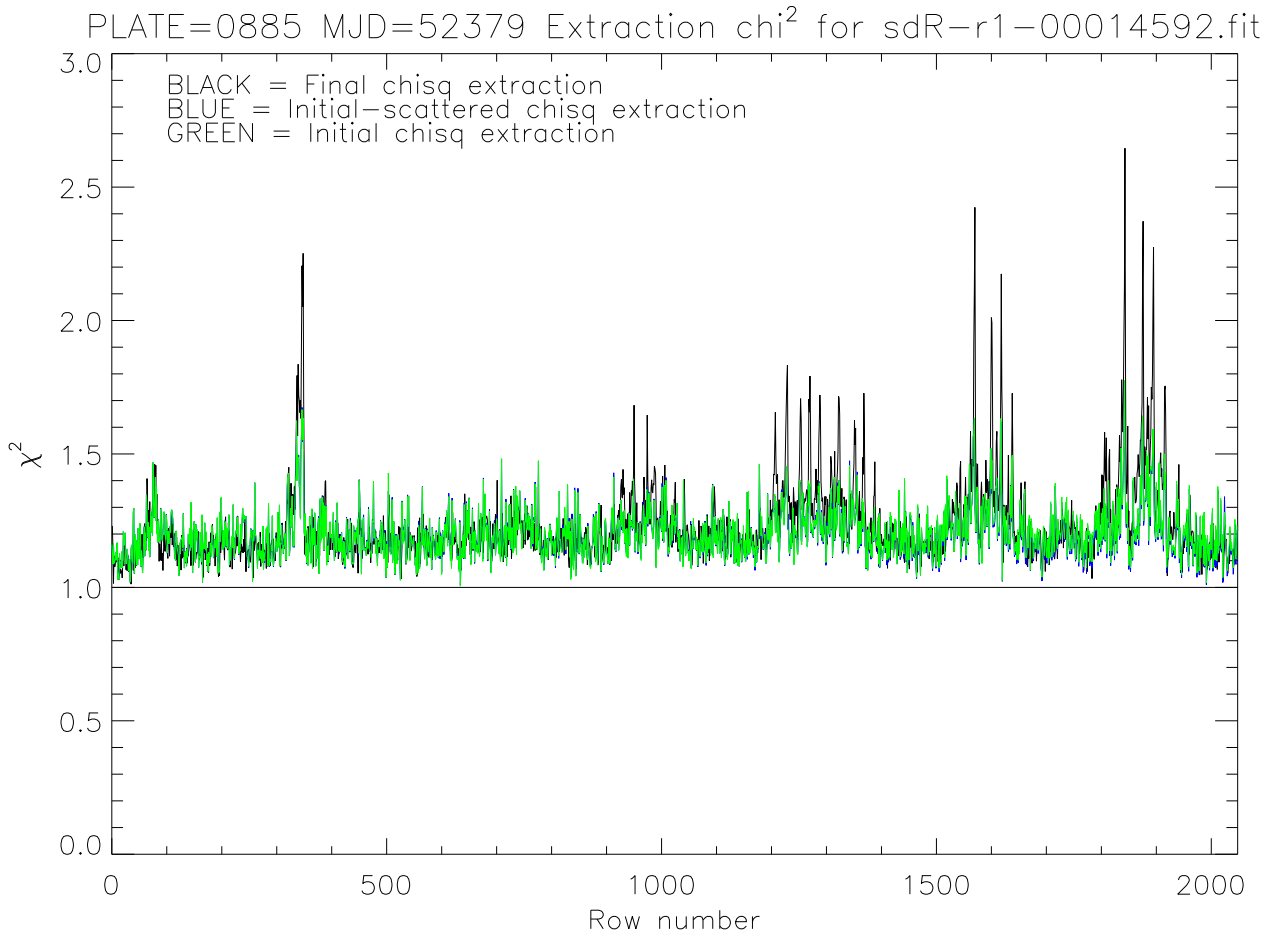

PLATE=0885 MJD=52379 Fiber−Flats for sdR−r1−00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.628
Max value = 1.312
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 24 13:47:11 2008

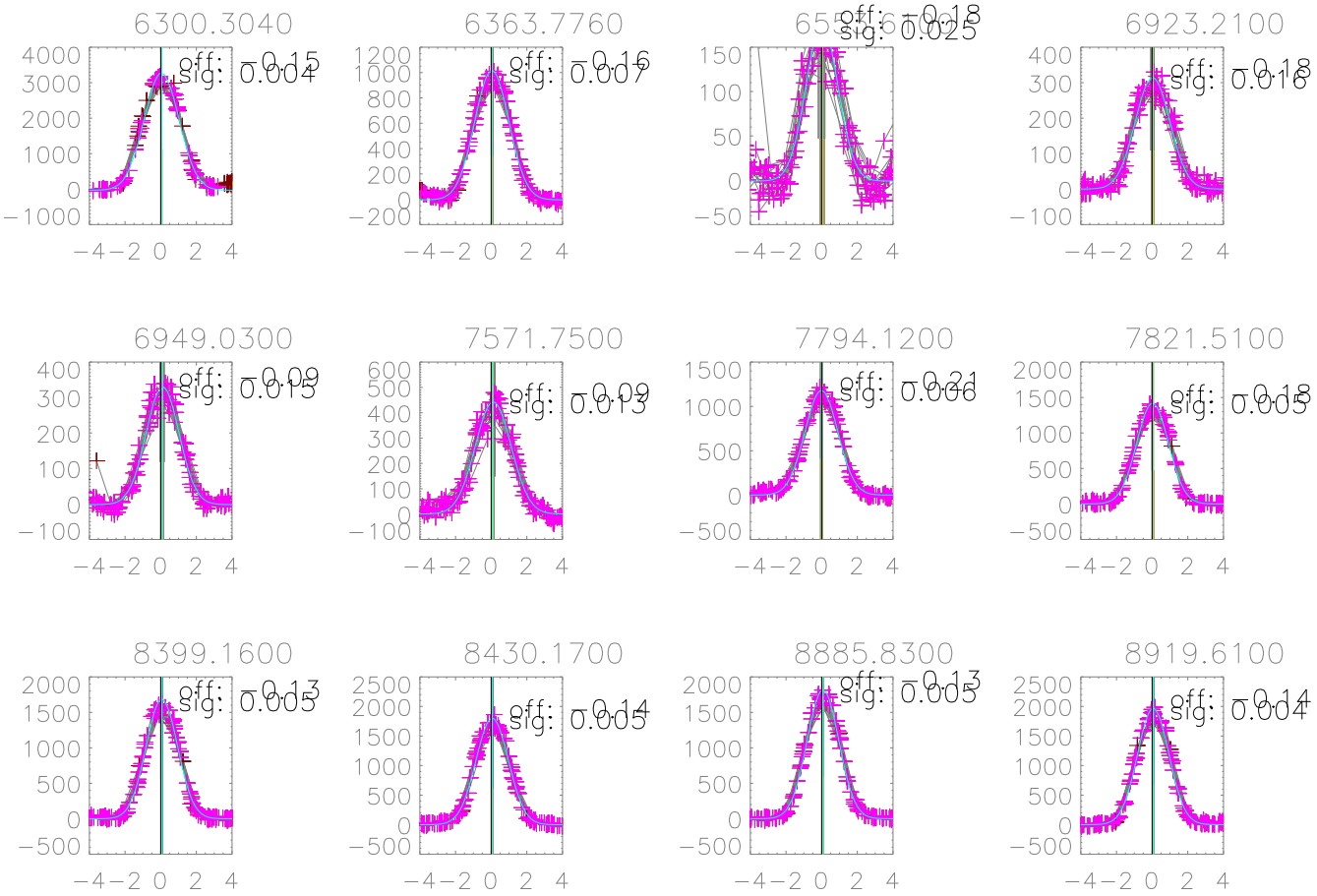

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r1-00014592.fi
15.91
20.45
15.91
15.91
11.36
11.36
6.82
6.82
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

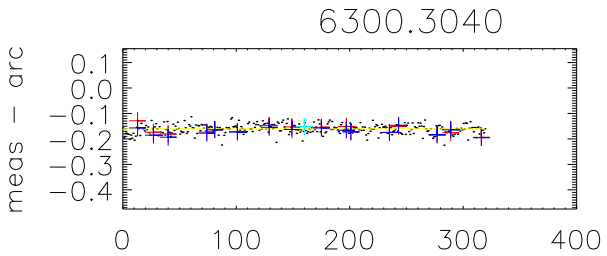

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r1-00014592.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.152
Max value = 20.997
Sun Feb 24 13:48:00 2008

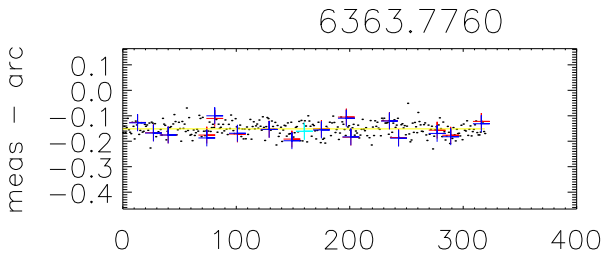

PLATE=0885 MJD=52379 Scattered Light on sdR−r1−00014592.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.5
2.7
0.9
0

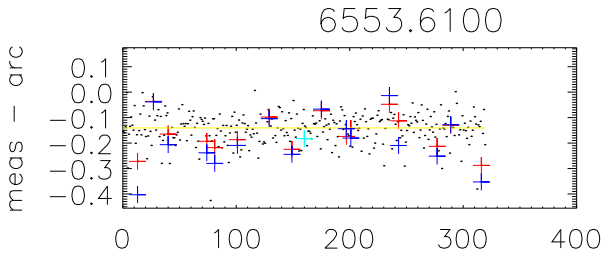

PLATE=0885 MJD=52379 Scattered Light on sdR-r1-00014592.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.672
Max value = 5.990
Sun Feb 24 13:51:04 2008

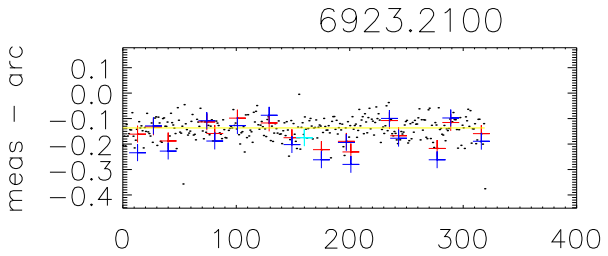

PLATE=0885 MJD=52379 Extraction chi^2 for sdR−r1−00014592.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

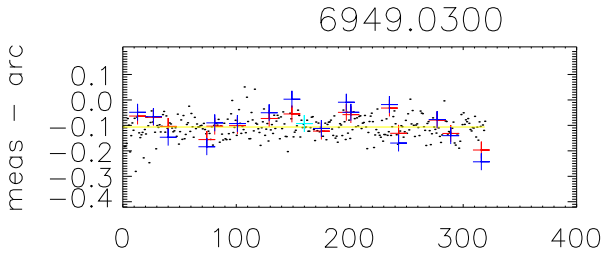

6300.3040
off: −0.15
sig: 0.004
6363.7760
off: −0.16
sig: 0.007
off: −0.18
sig: 0.025
6923.2100
off: −0.18
sig: 0.016
6949.0300
off: −0.09
sig: 0.015
7571.7500
off: −0.09
sig: 0.013
7794.1200
off: −0.21
sig: 0.006
7821.5100
off: −0.18
sig: 0.005
8399.1600
off: −0.13
sig: 0.005
8430.1700
off: −0.14
sig: 0.005
8885.8300
off: −0.13
sig: 0.005
8919.6100
off: −0.14
sig: 0.004

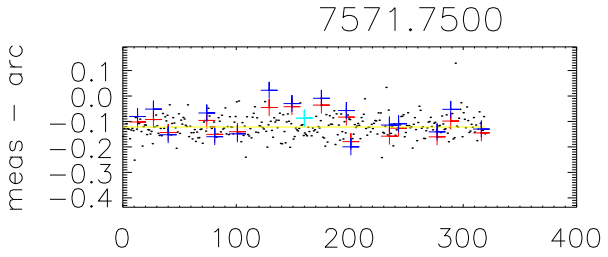

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

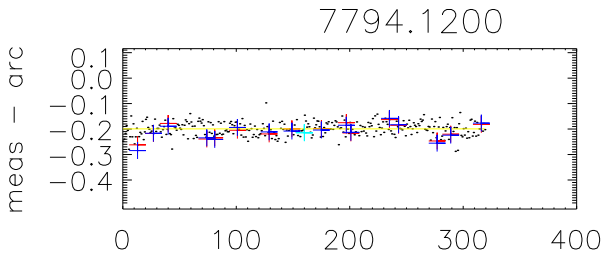

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

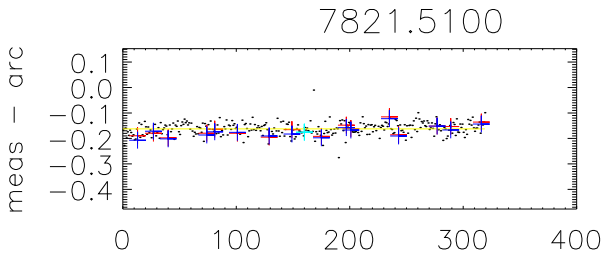

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

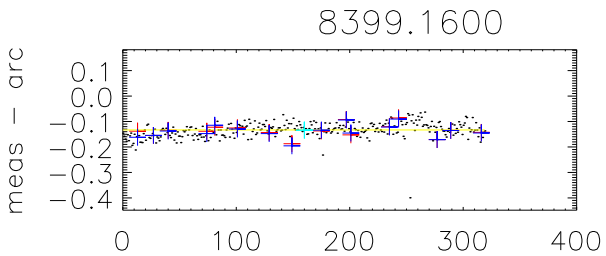

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

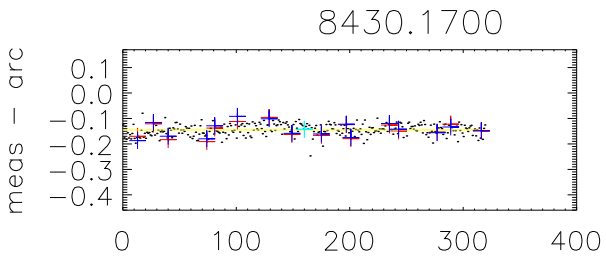

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

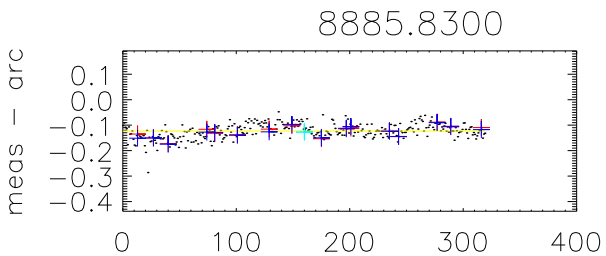

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

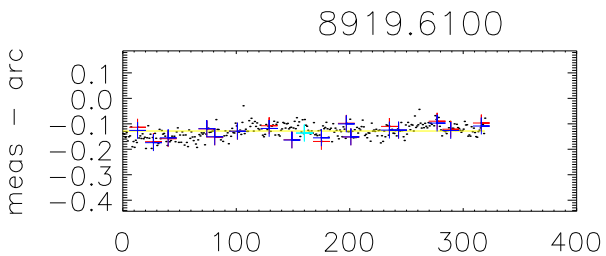

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

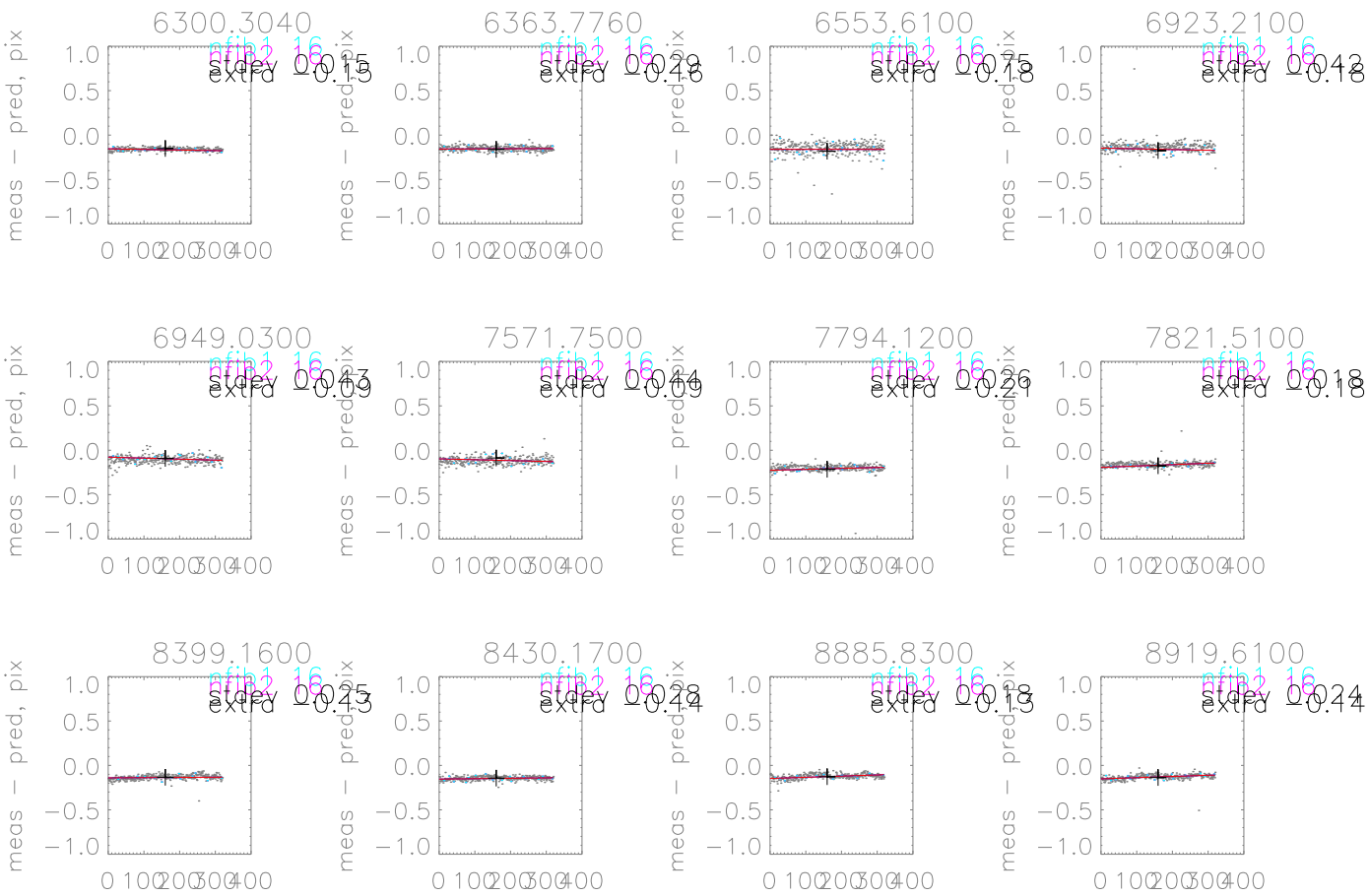

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

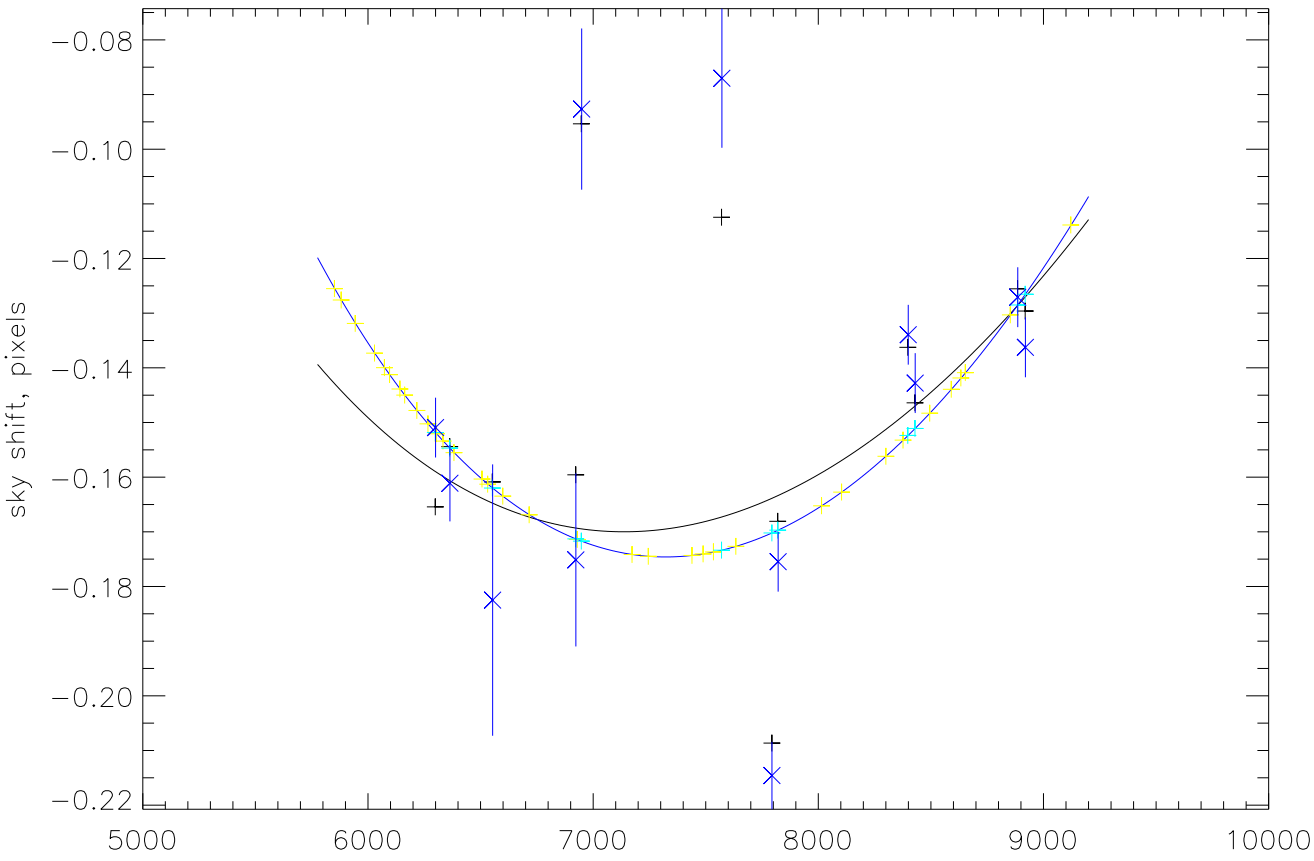

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

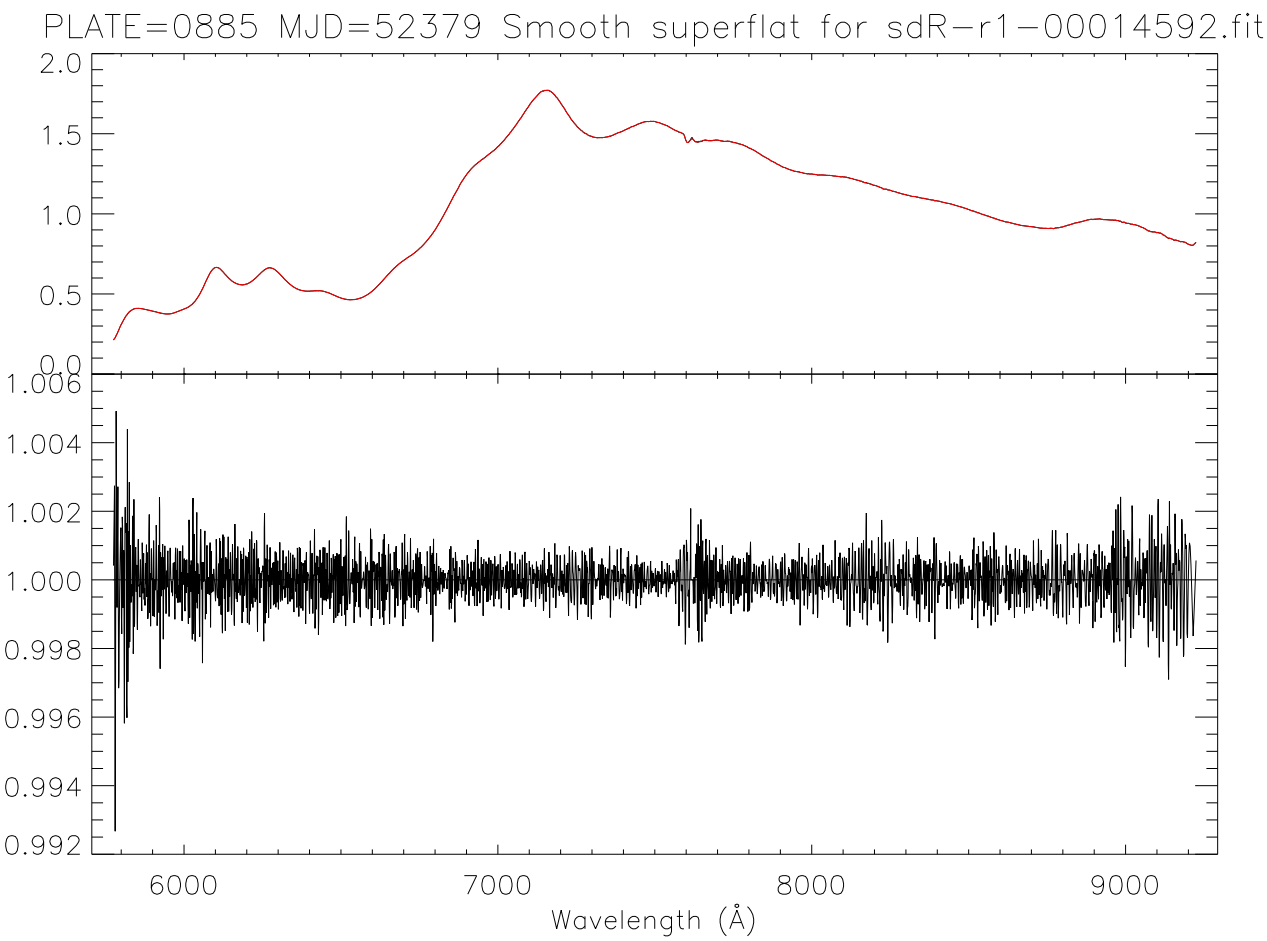

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

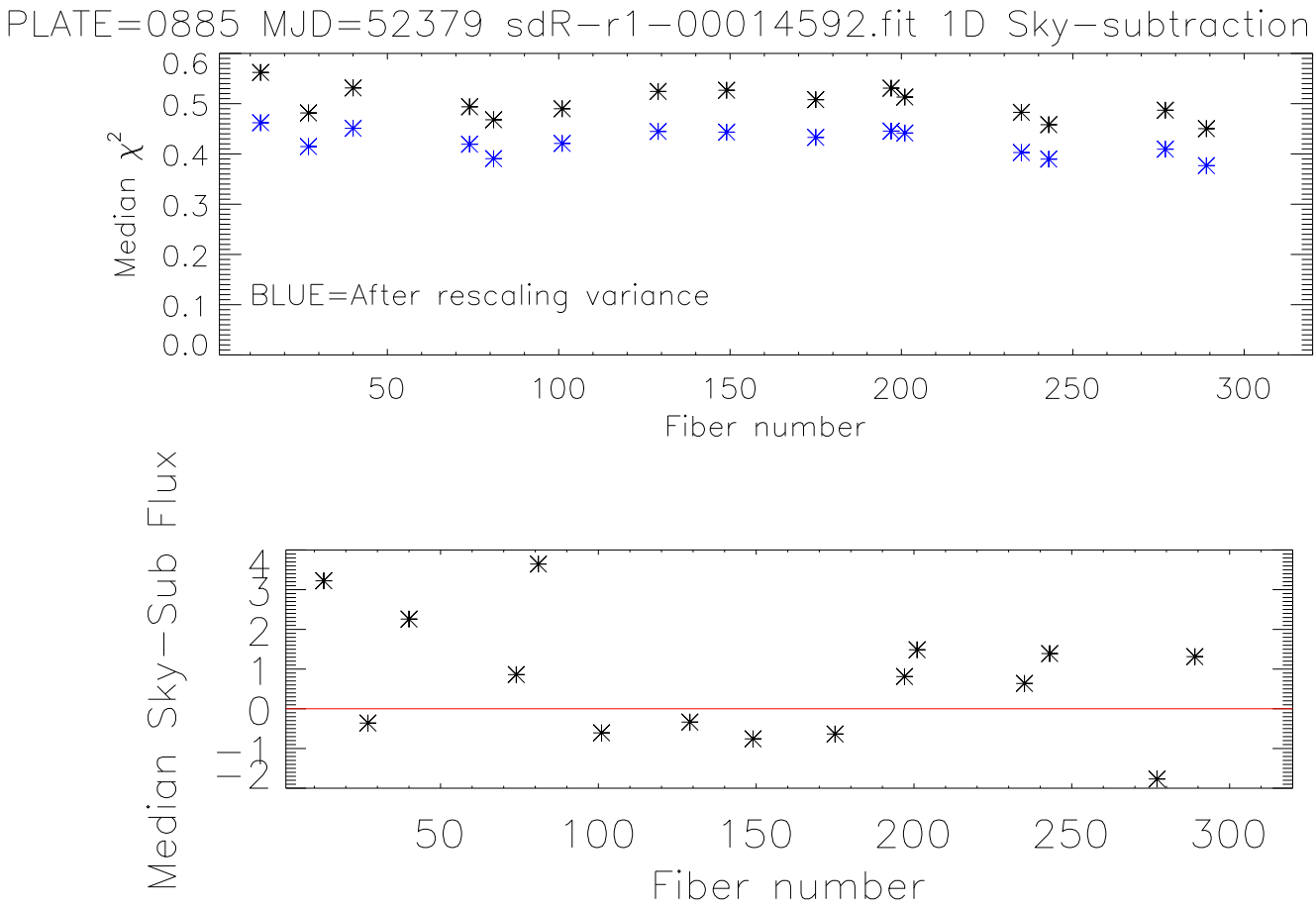

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

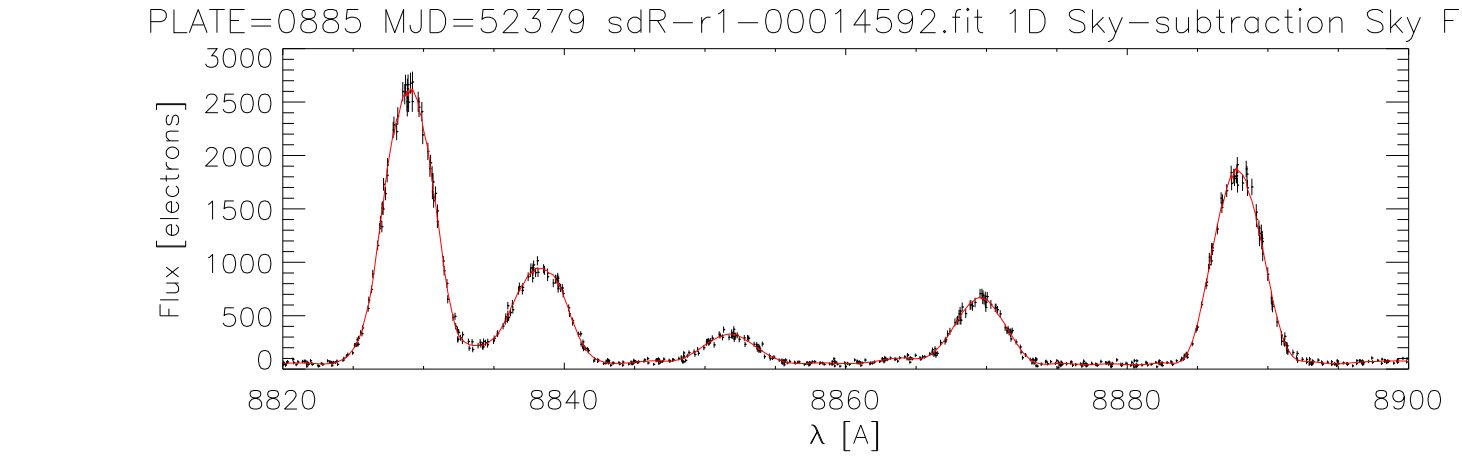

6300.3040
stdev 0.15
extra 0.15
6363.7760
stdev 0.29
extra 0.46
6553.6100
stdev 0.75
extra 0.18
6923.2100
stdev 0.42
extra 0.18
6949.0300
stdev 0.43
extra 0.09
7571.7500
stdev 0.44
extra 0.09
7794.1200
stdev 0.26
extra 0.21
7821.5100
stdev 0.18
extra 0.18
8399.1600
stdev 0.25
extra 0.43
8430.1700
stdev 0.28
extra 0.44
8885.8300
stdev 0.18
extra 0.13
8919.6100
stdev 0.24
extra 0.44
meas − pred, pix
mfhd2 16

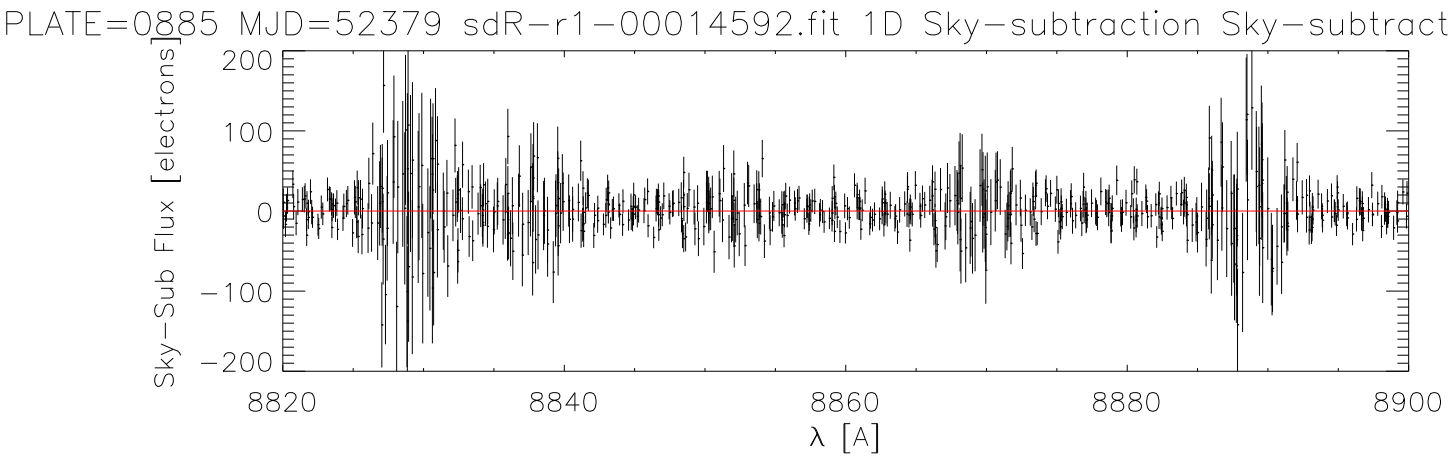

−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
−0.20
−0.22
sky shift, pixels
5000
6000
7000
8000
9000
10000

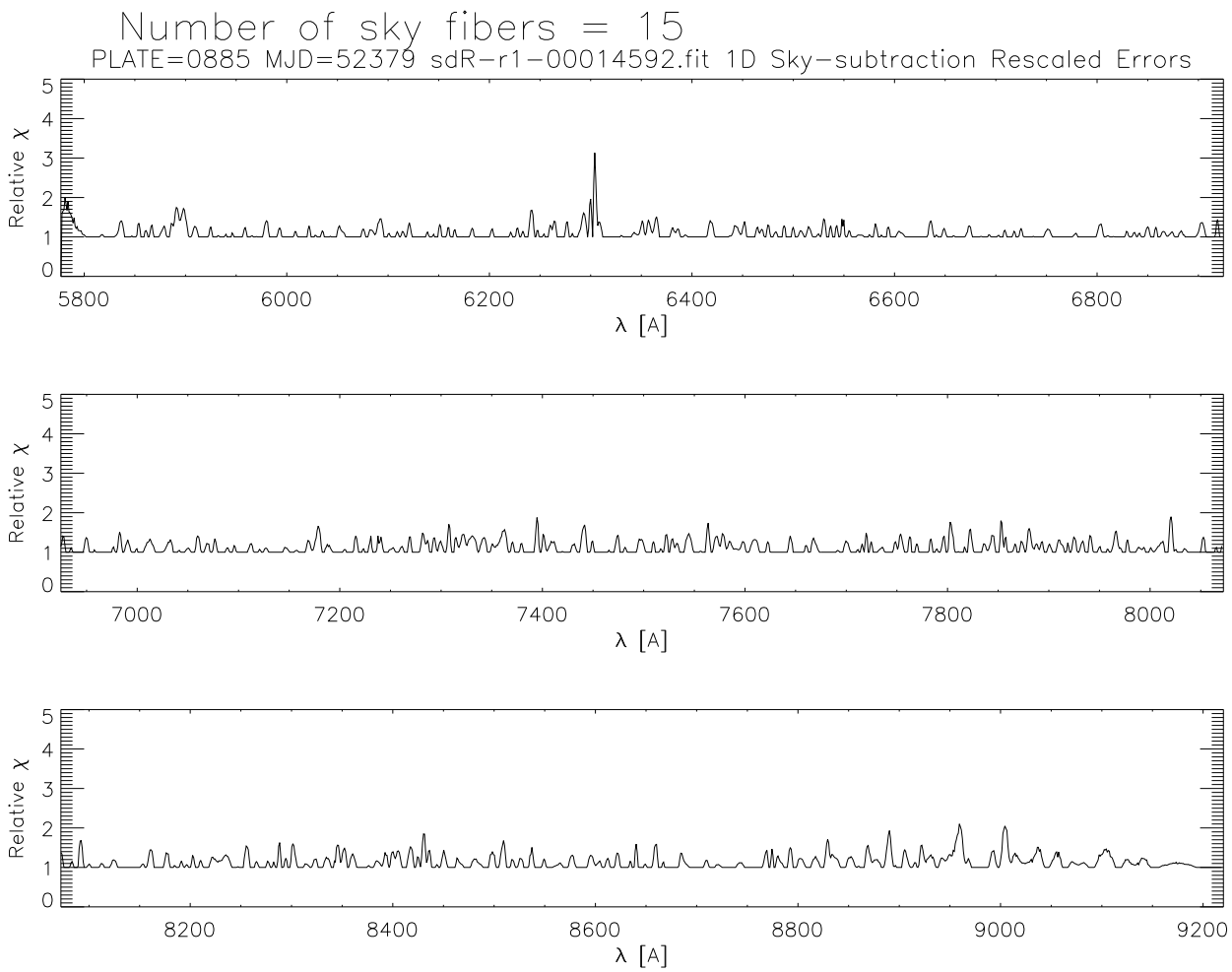
es= 0.0000

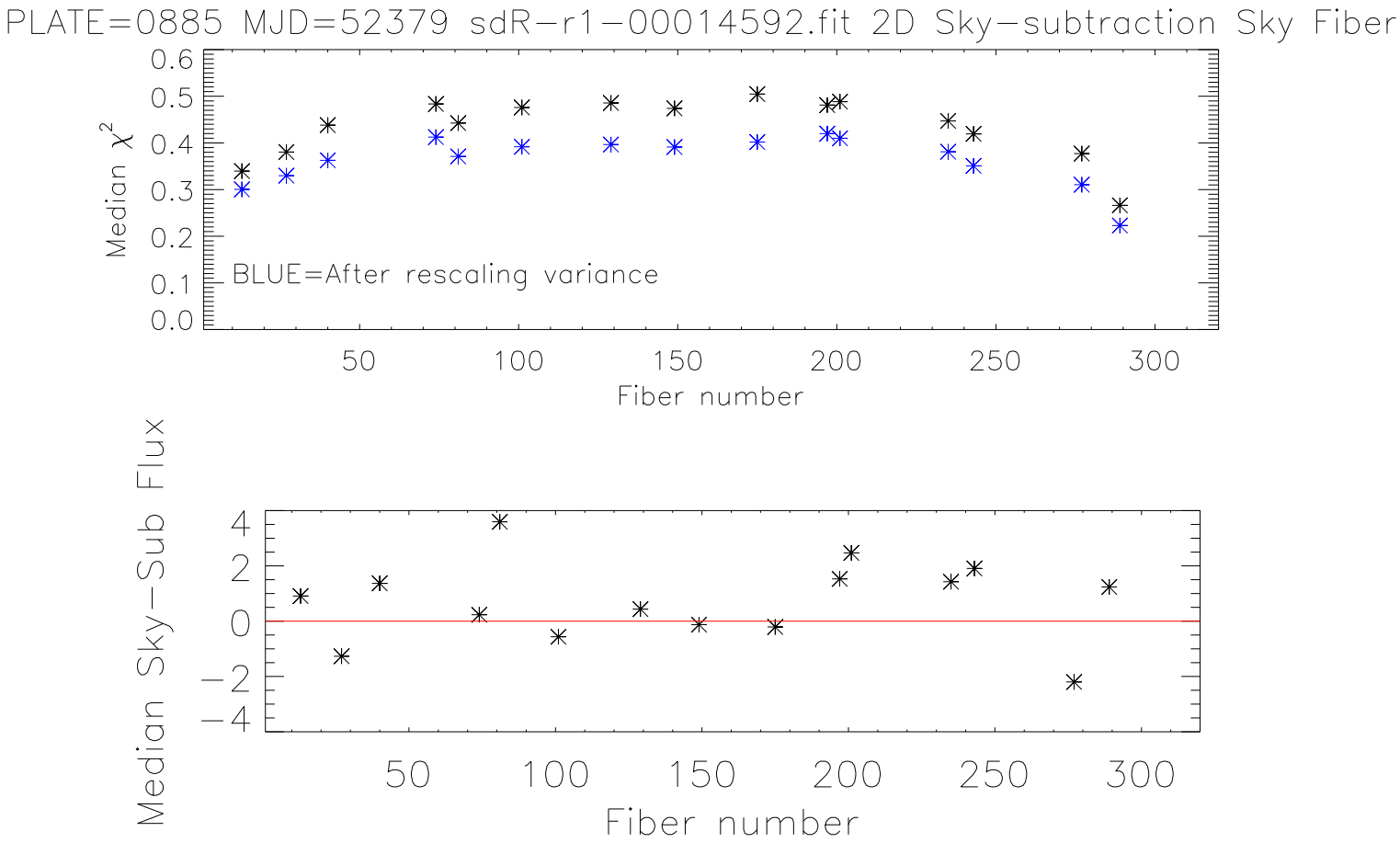

PLATE=0885 MJD=52379 Smooth superflat for sdR-r1-00014592.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

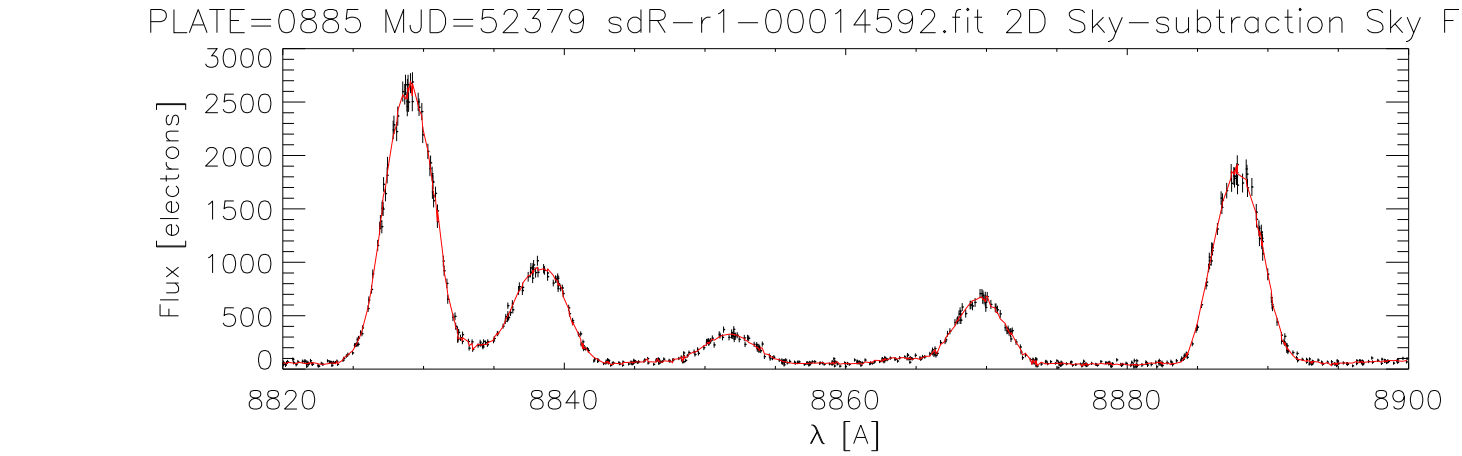

PLATE=0885 MJD=52379 sdR-r1-00014592.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

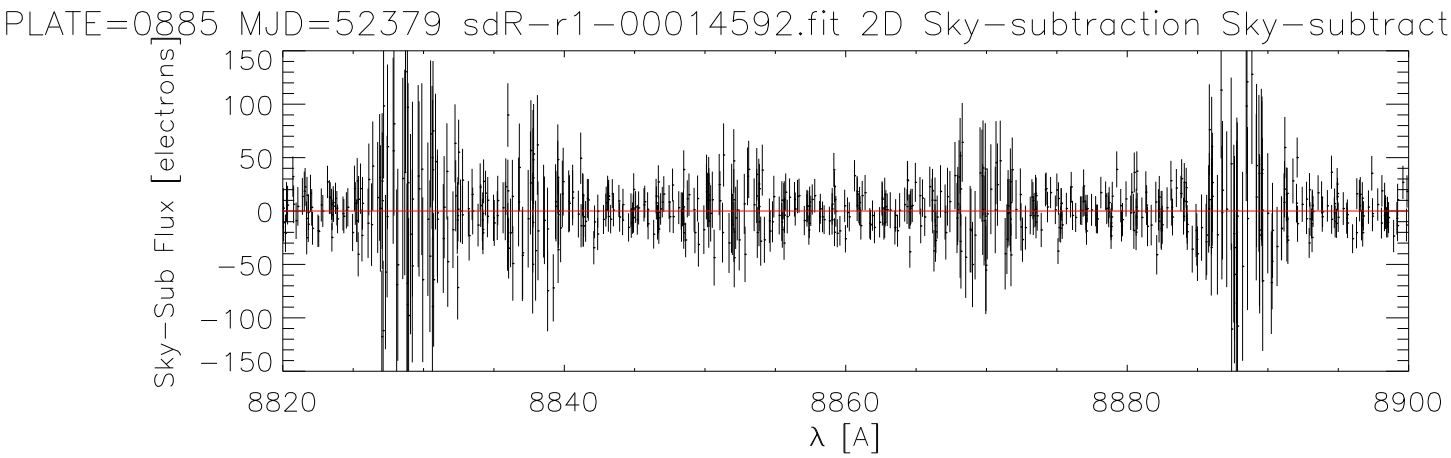

PLATE=0885 MJD=52379 sdR-r1-00014592.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

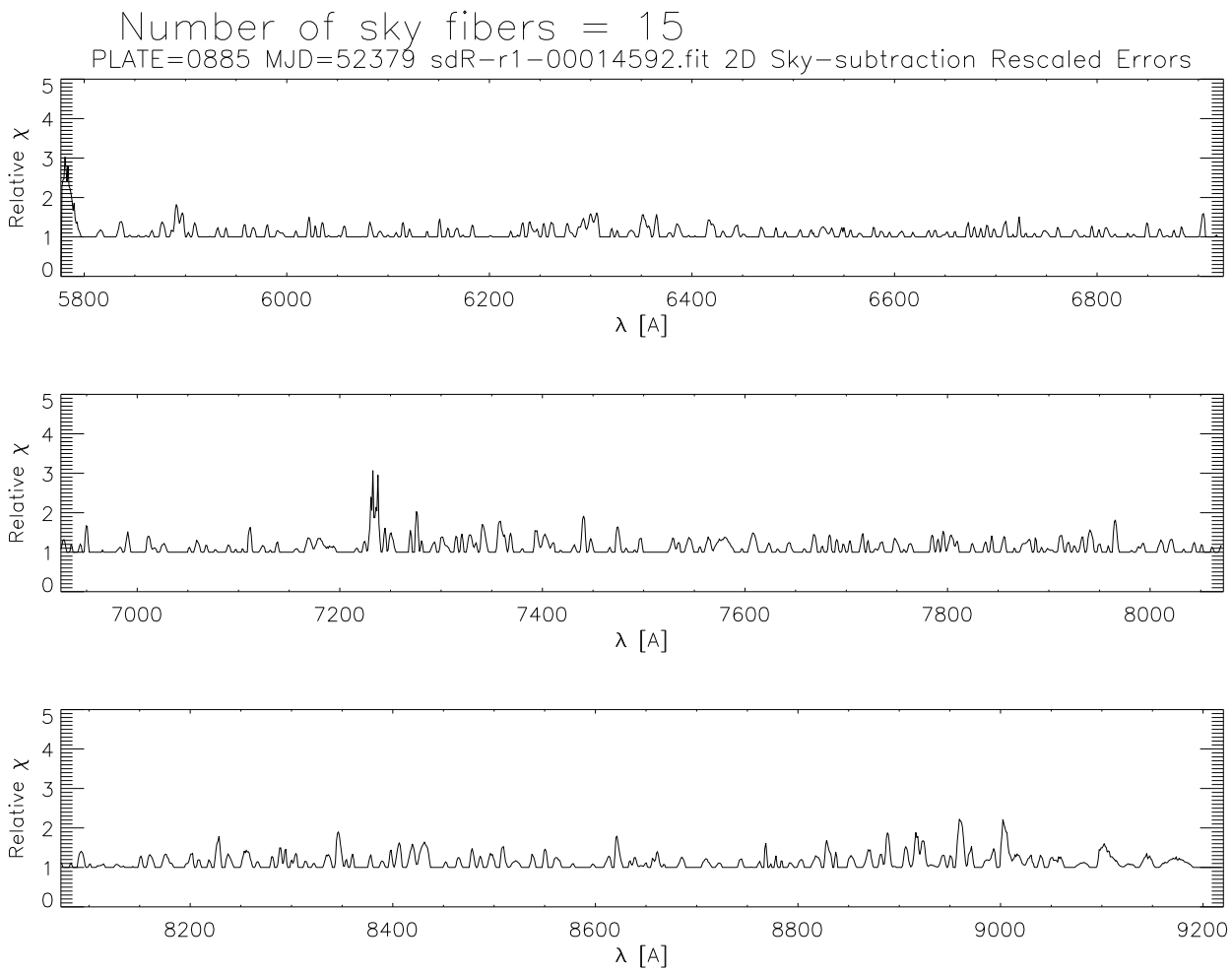

PLATE=0885 MJD=52379 sdR-r1-00014592.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

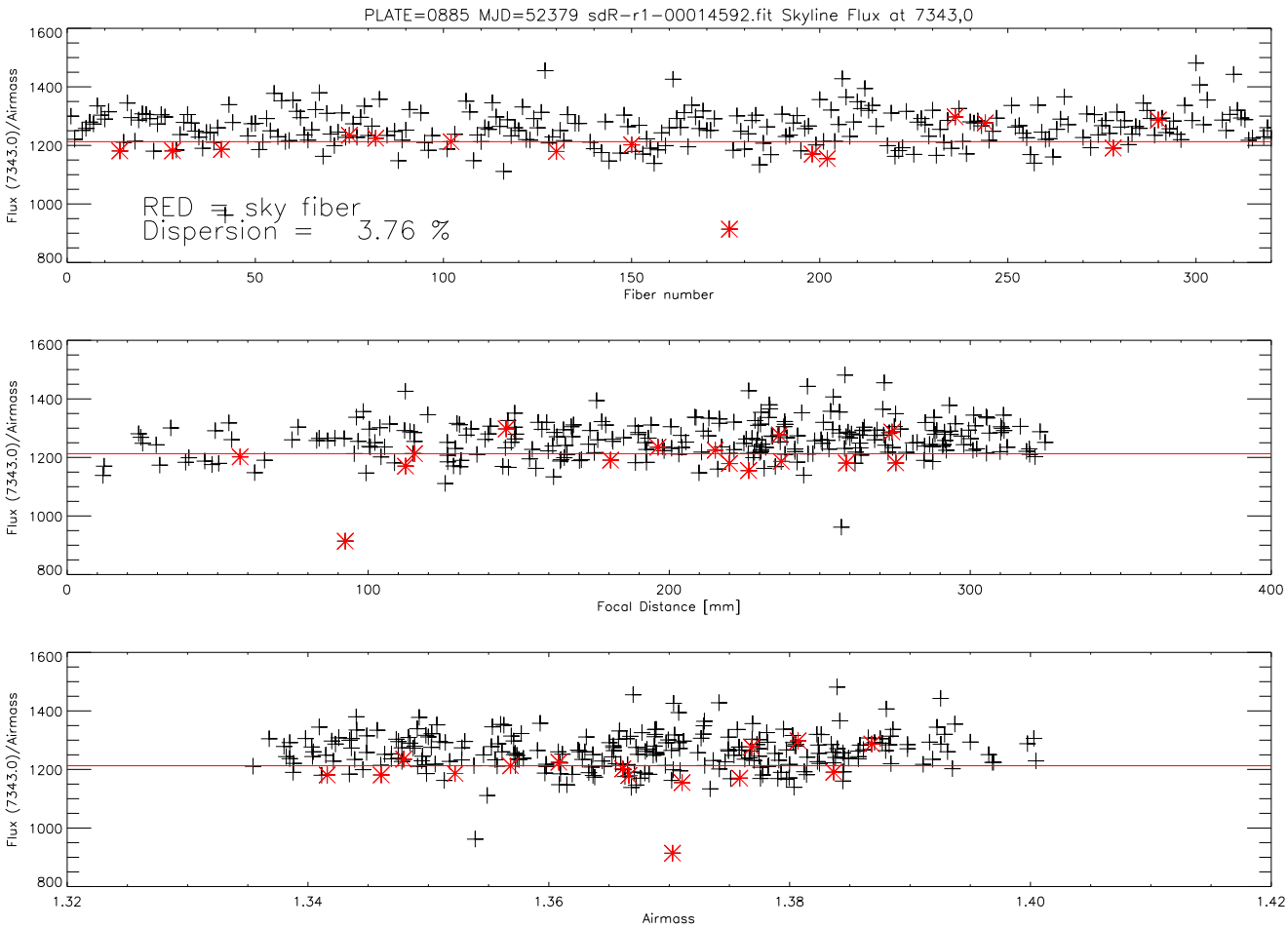

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-r1-00014592.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

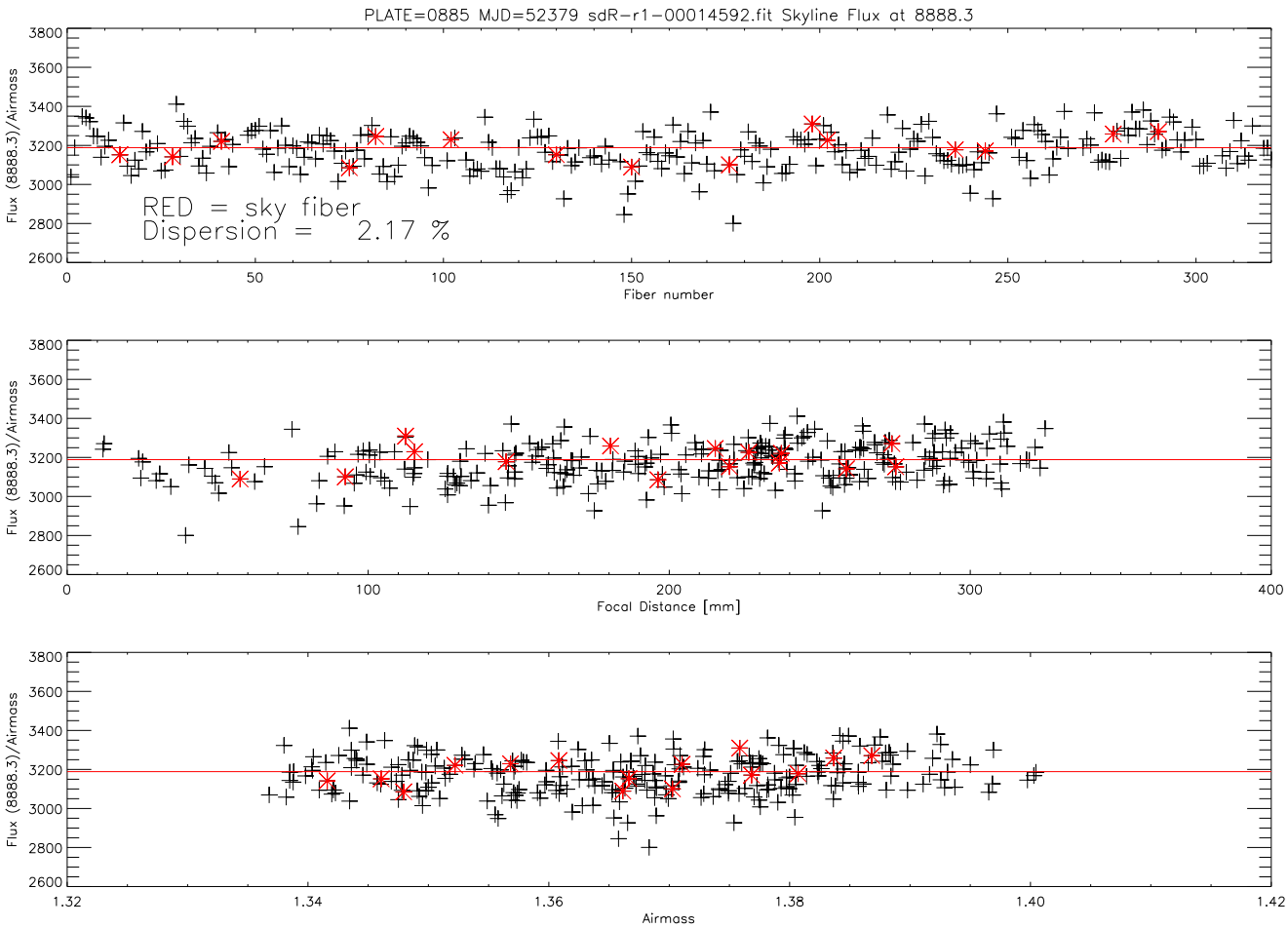

PLATE=0885 MJD=52379 sdR-r1-00014592.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

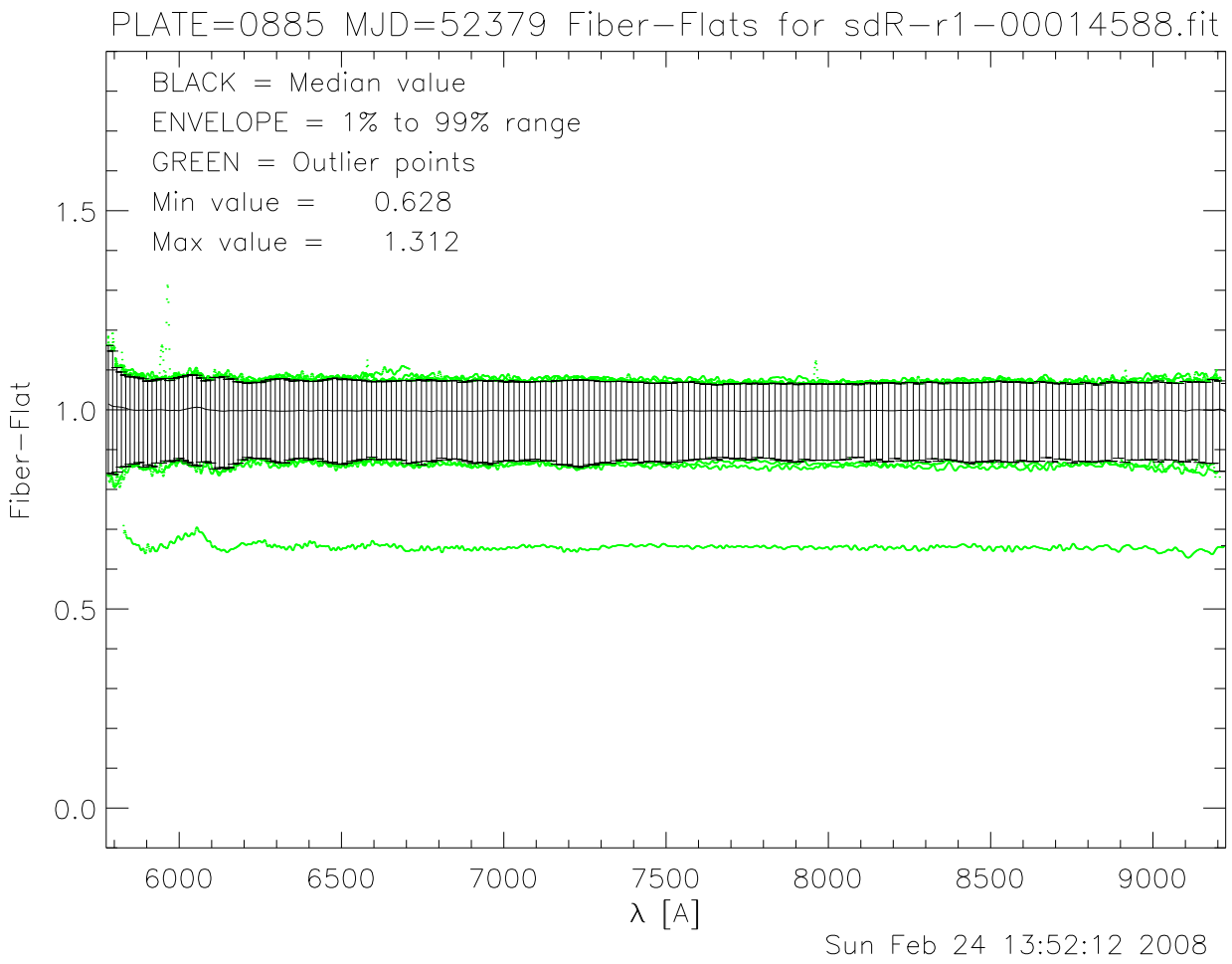

PLATE=0885 MJD=52379 sdR-r1-00014592.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

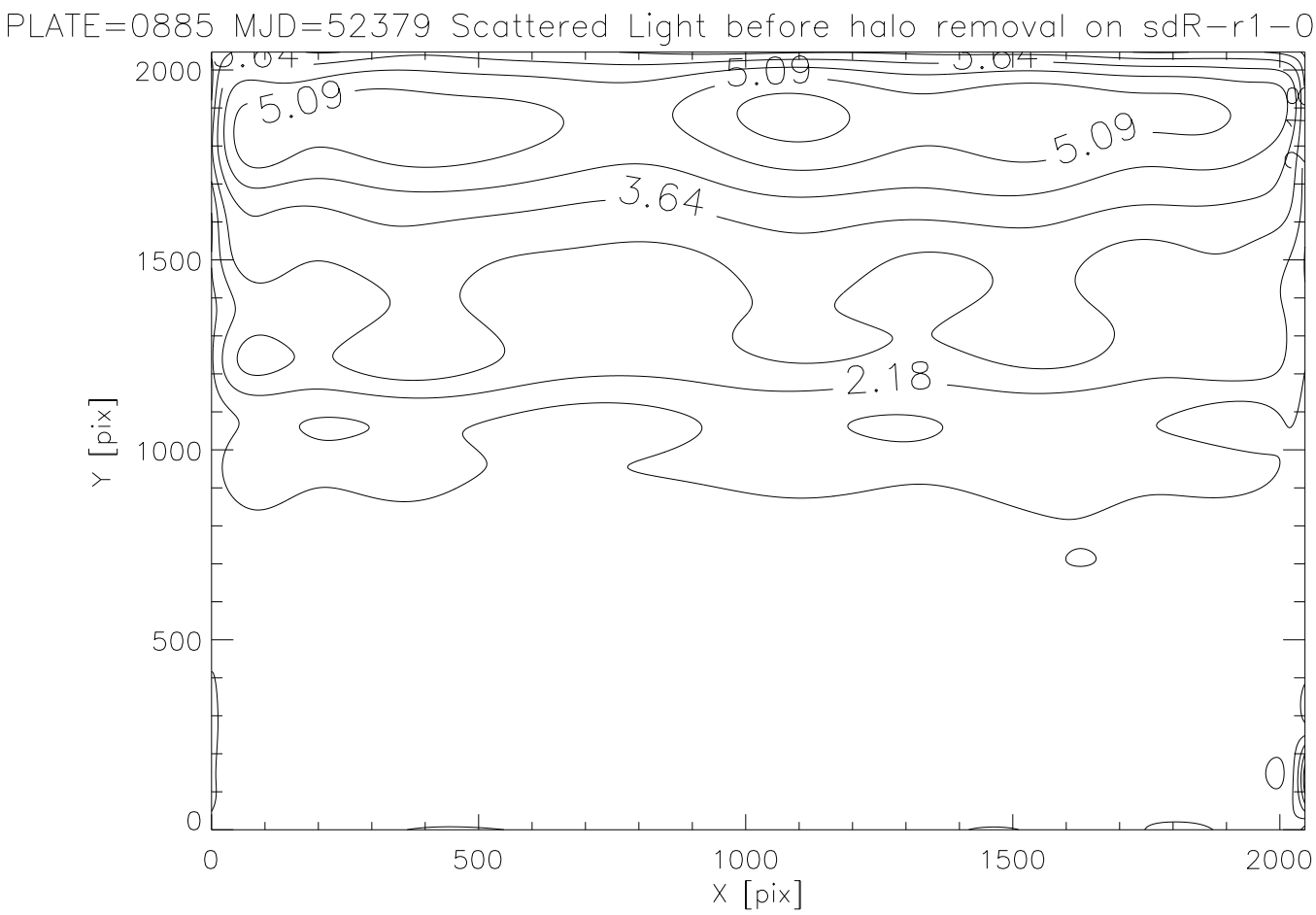

PLATE=0885 MJD=52379 sdR-r1-00014592.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
8820
8840
8860
8880
8900
λ [A]

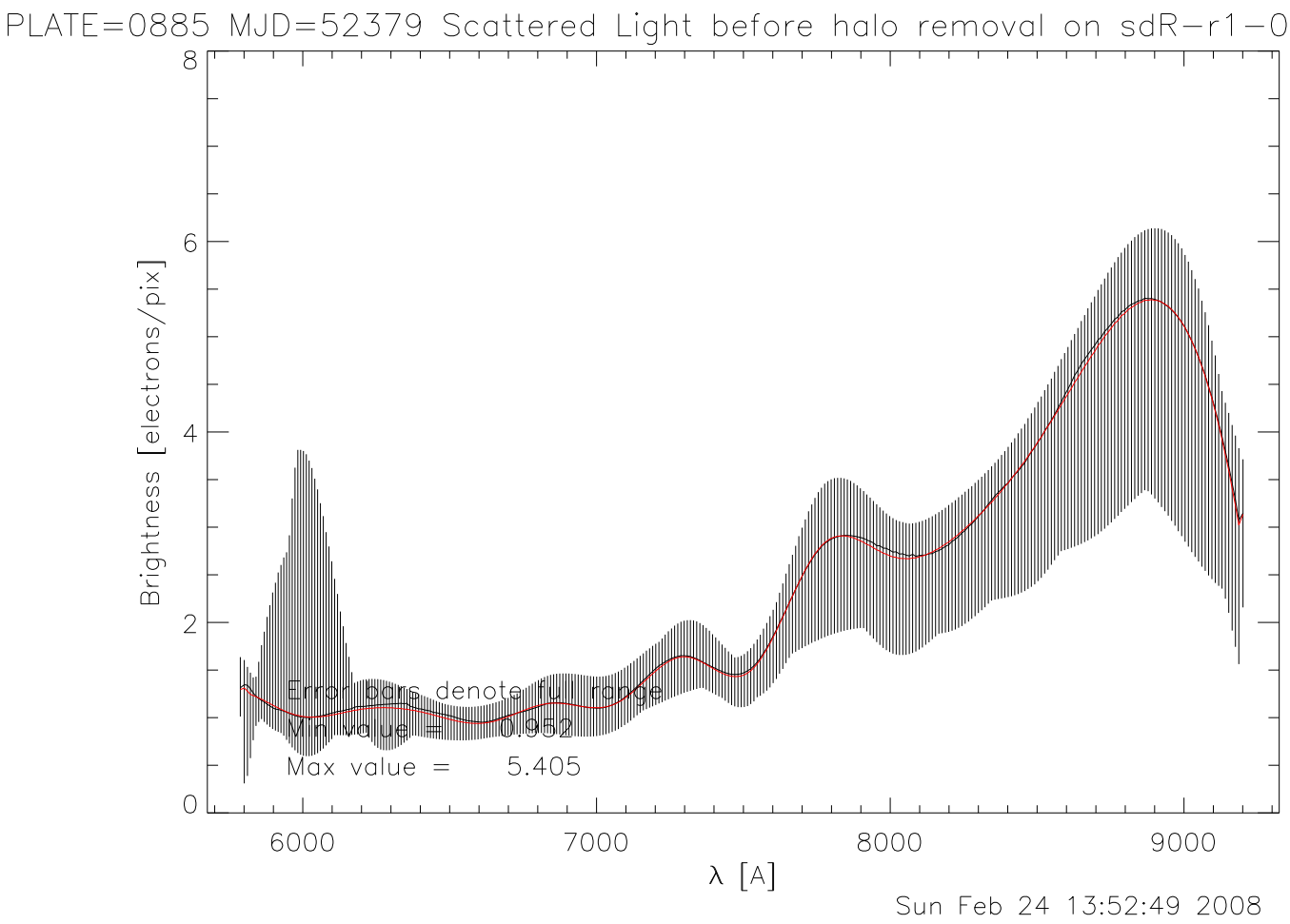

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-r1-00014592.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

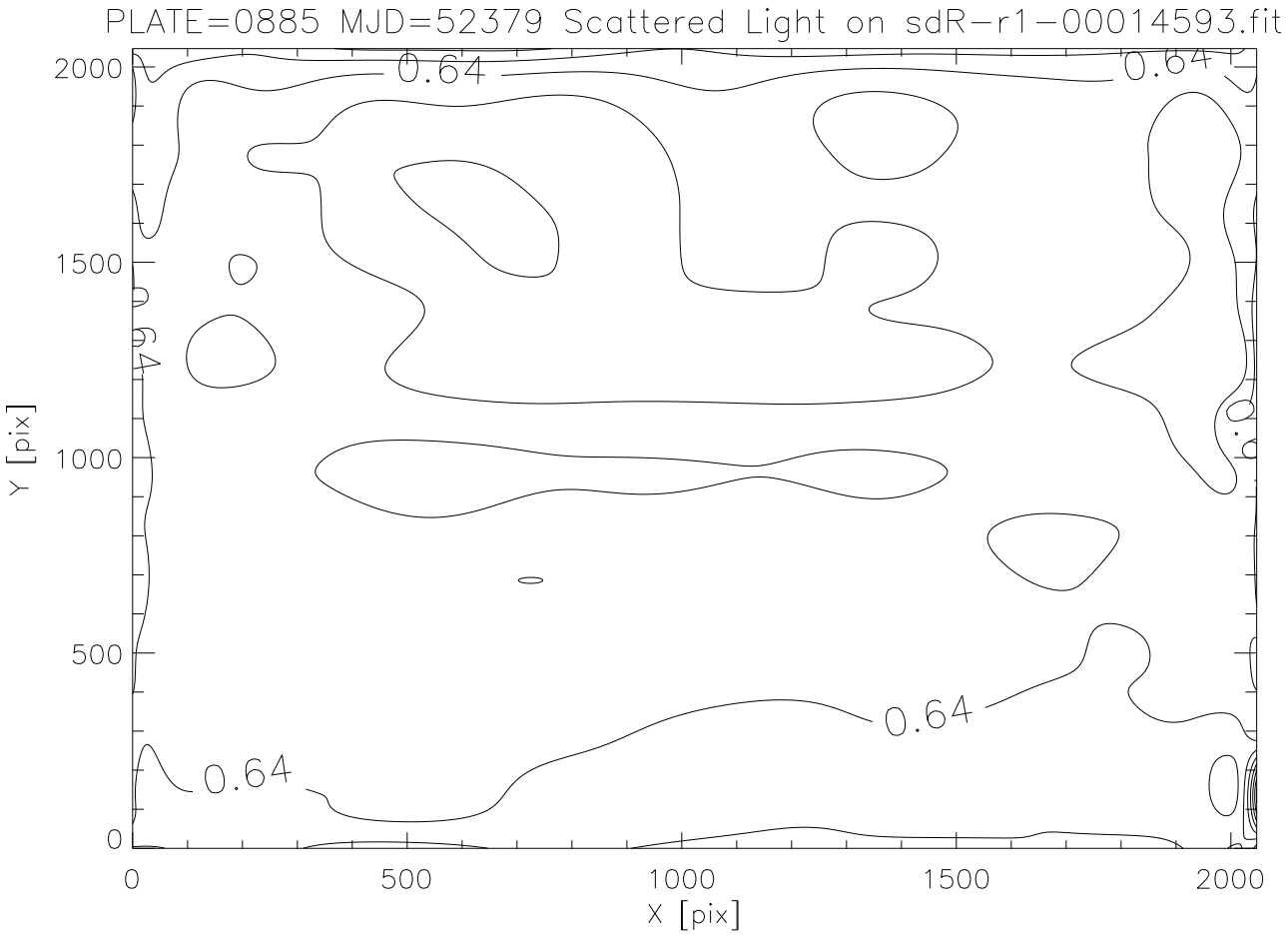

PLATE=0885 MJD=52379 sdR-r1-00014592.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.76 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

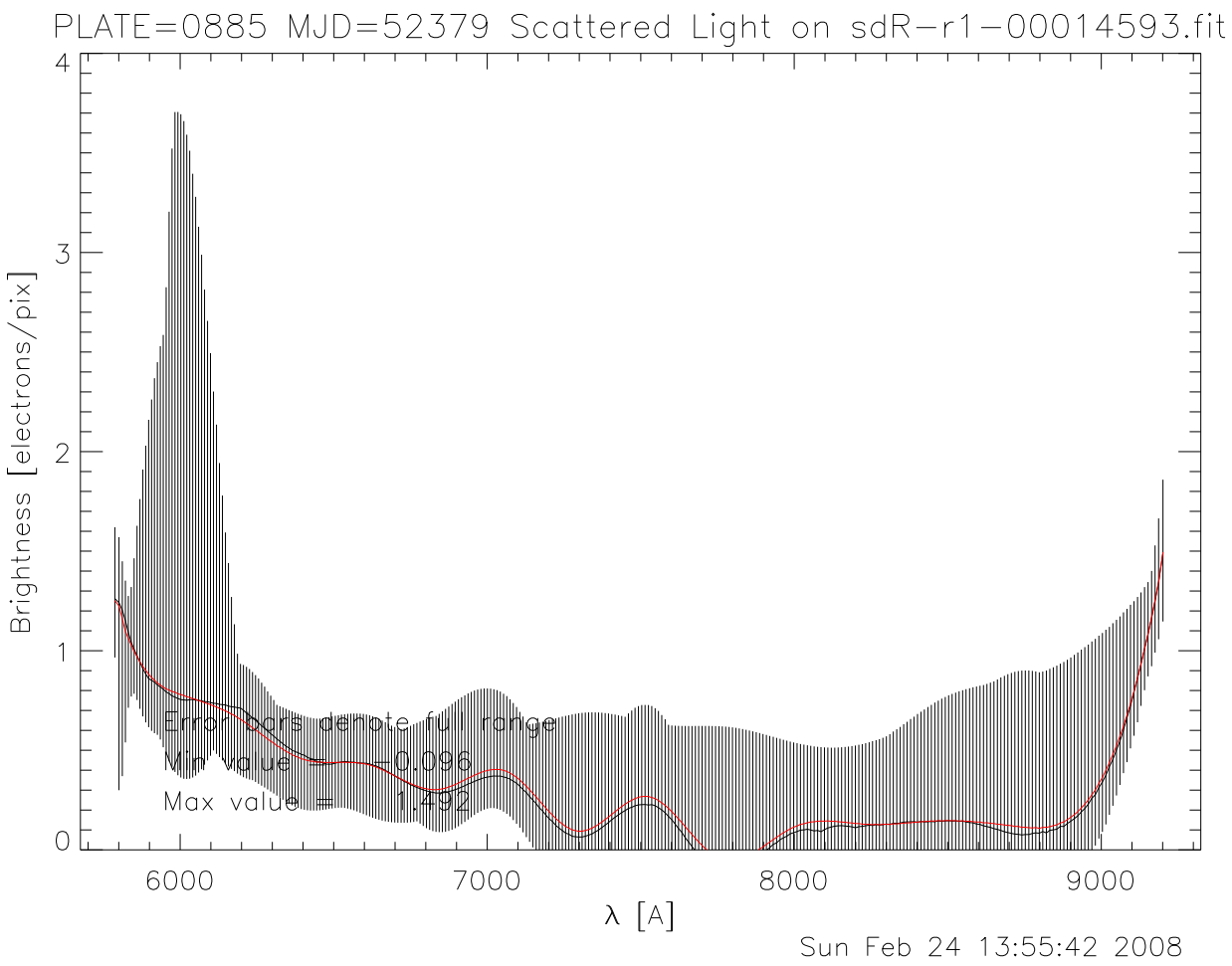

PLATE=0885 MJD=52379 sdR-r1-00014592.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.17 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

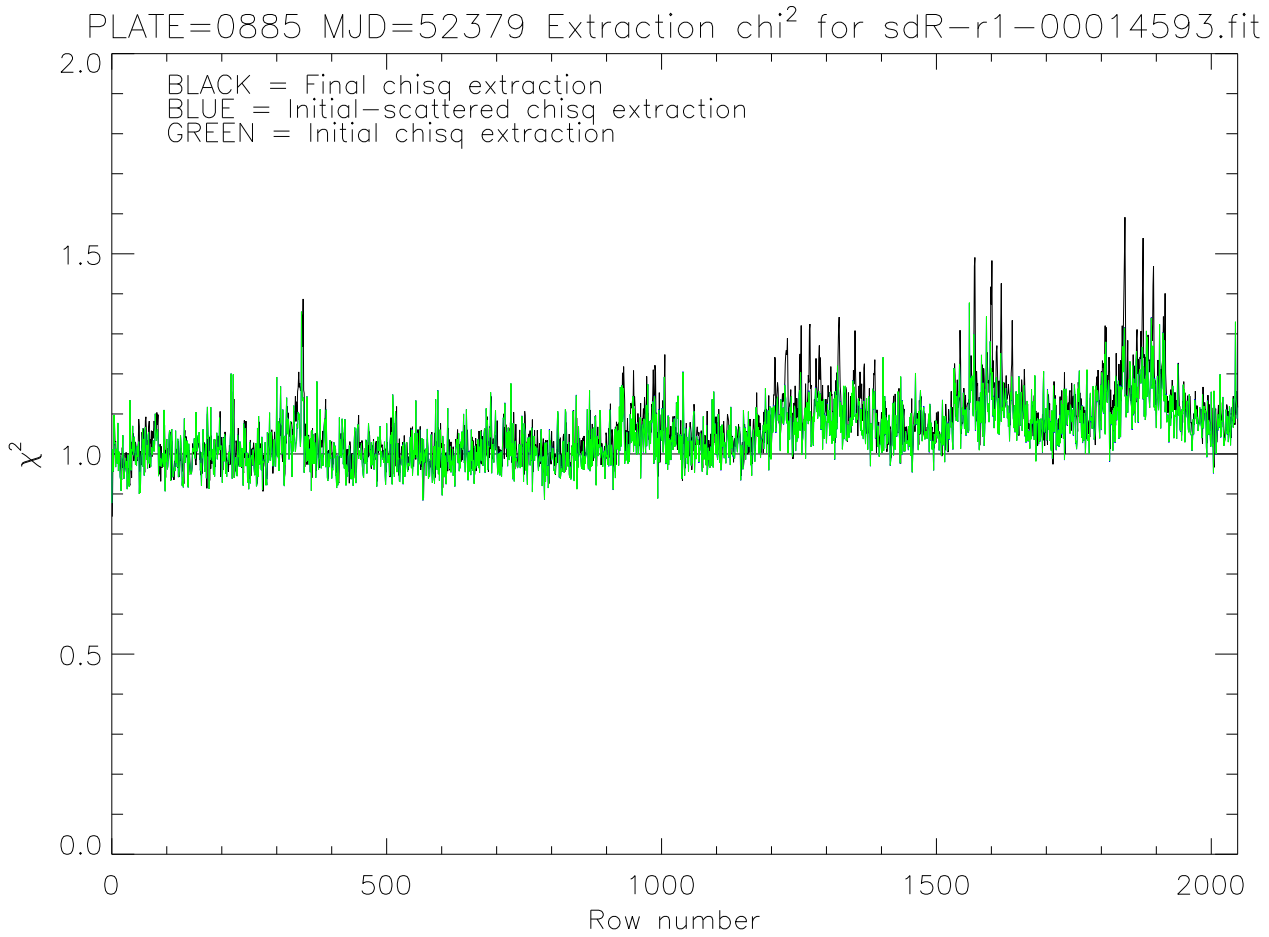

PLATE=0885 MJD=52379 Fiber−Flats for sdR−r1−00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.628
Max value = 1.312
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 24 13:52:12 2008

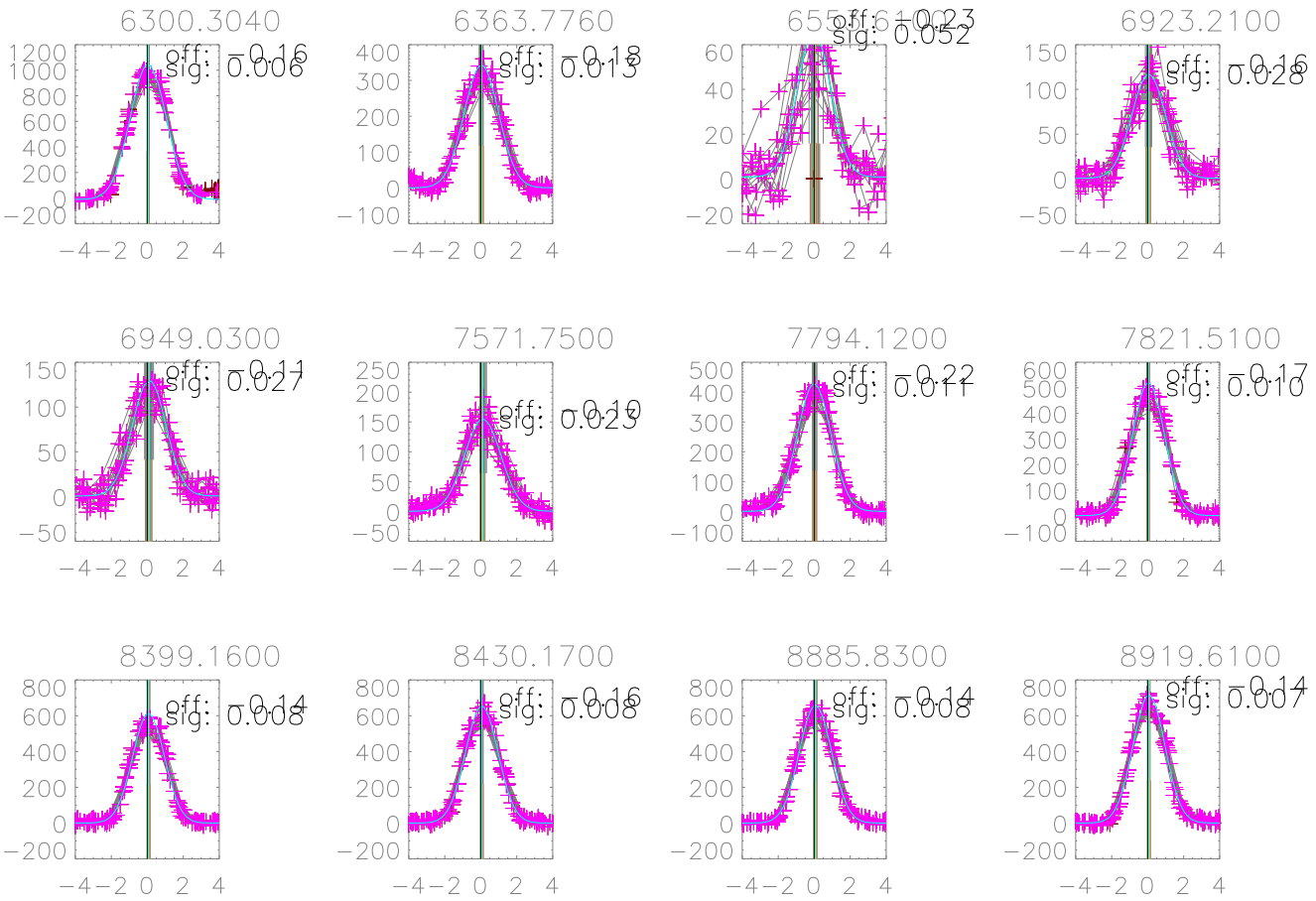

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR−r1−00014593.fi
5.09
5.09
5.09
3.64
2.18
0
Y [pix]
X [pix]
0
500
1000
1500
2000

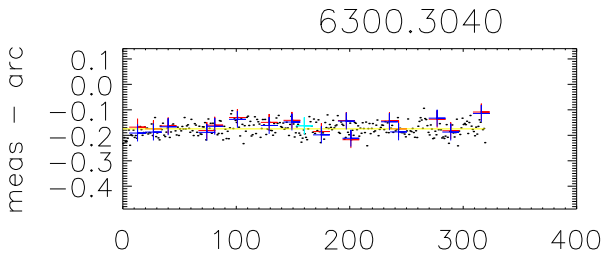

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r1-00014593.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.952
Max value = 5.405
Sun Feb 24 13:52:49 2008

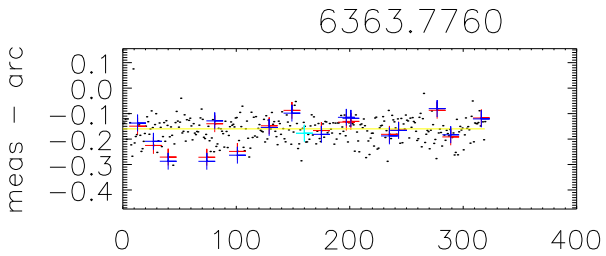

PLATE=0885 MJD=52379 Scattered Light on sdR-r1-00014593.fit
0.64
0.64
0.64
0.64
0.64
0.64
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

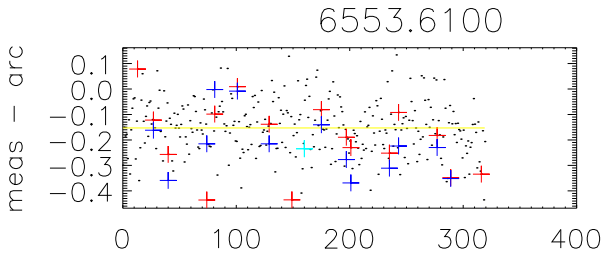

PLATE=0885 MJD=52379 Scattered Light on sdR-r1-00014593.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -0.096
Max value = 1.492
Sun Feb 24 13:55:42 2008

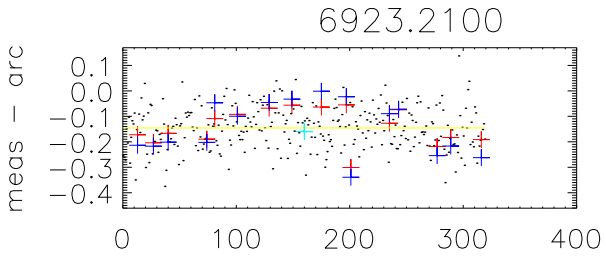

PLATE=0885 MJD=52379 Extraction chi^2 for sdR−r1−00014593.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

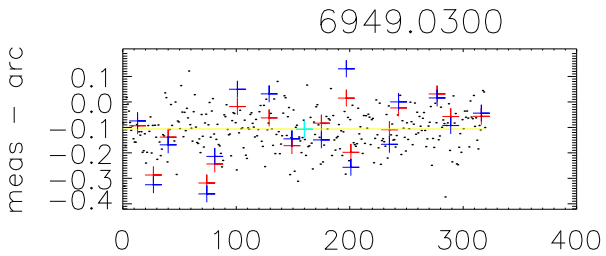

6300.3040
off: −0.16
sig: 0.006
6363.7760
off: −0.18
sig: 0.013
6555.6410
off: −0.23
sig: 0.052
6923.2100
off: −0.16
sig: 0.028
6949.0300
off: −0.11
sig: 0.027
7571.7500
off: −0.19
sig: 0.023
7794.1200
off: −0.22
sig: 0.011
7821.5100
off: −0.17
sig: 0.010
8399.1600
off: −0.14
sig: 0.008
8430.1700
off: −0.16
sig: 0.008
8885.8300
off: −0.14
sig: 0.008
8919.6100
off: −0.14
sig: 0.007

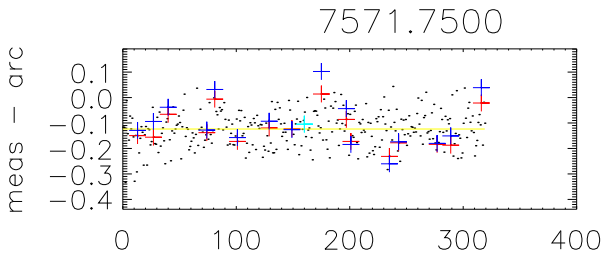

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

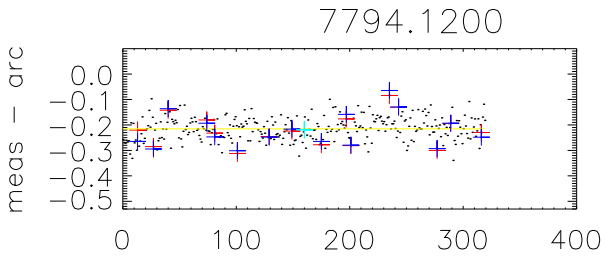

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

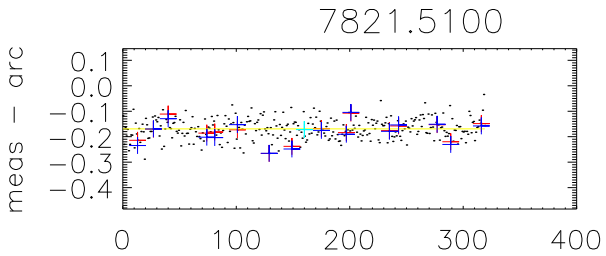

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

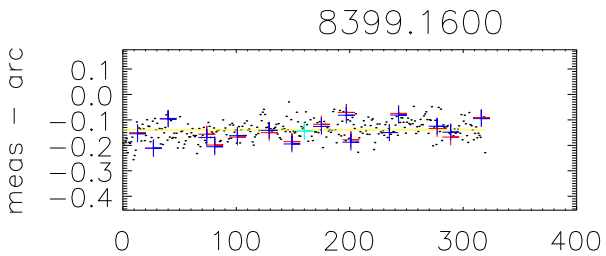

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

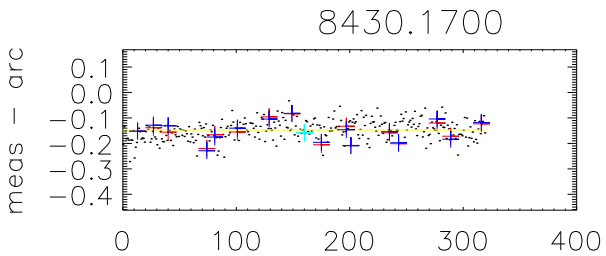

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

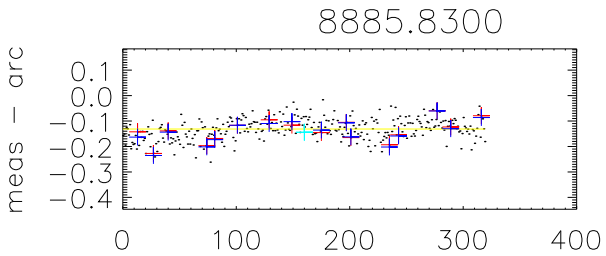

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

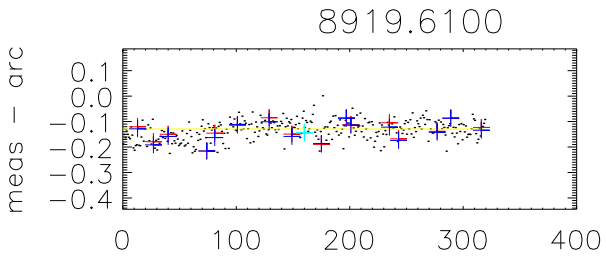

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

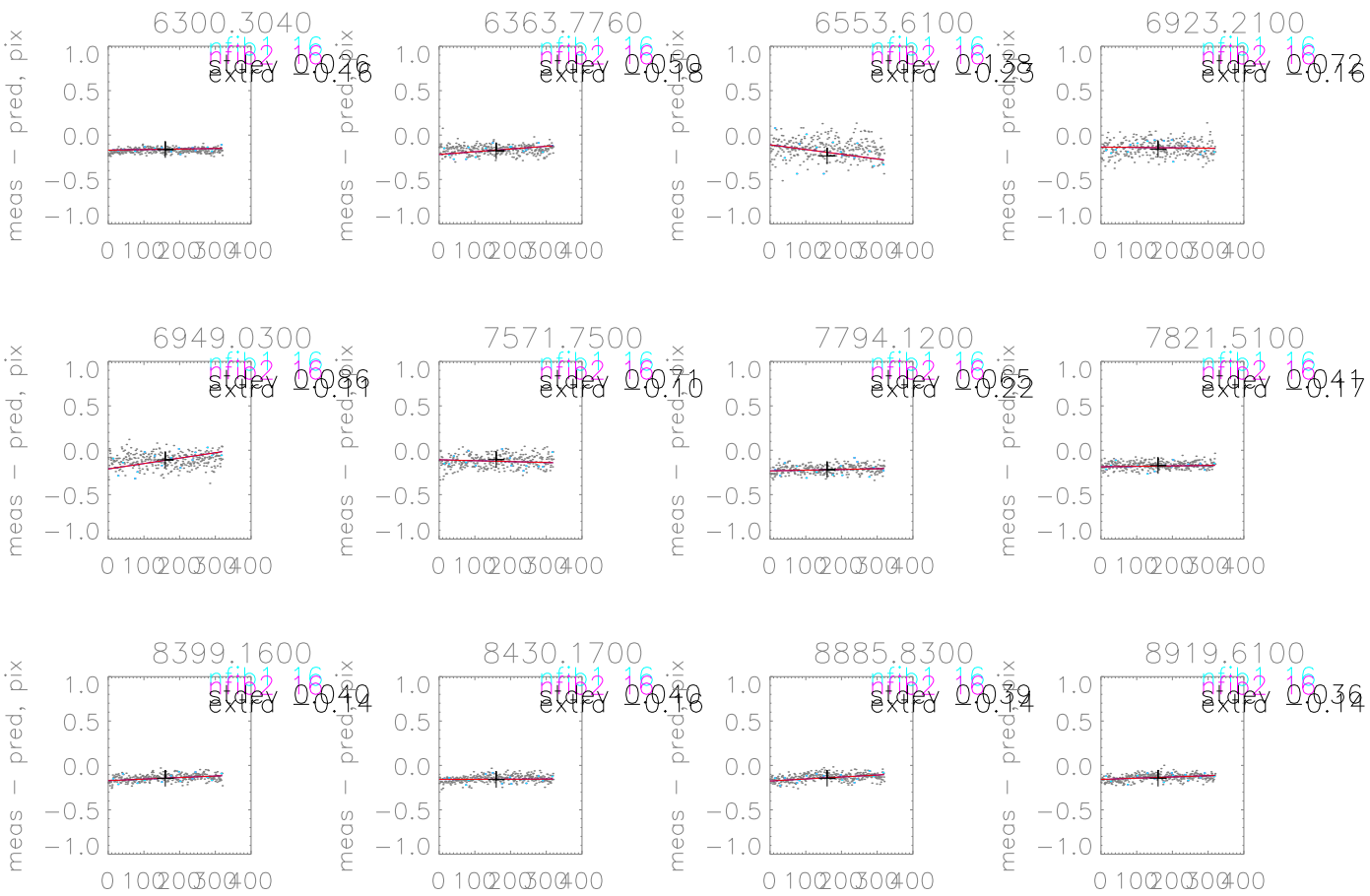

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

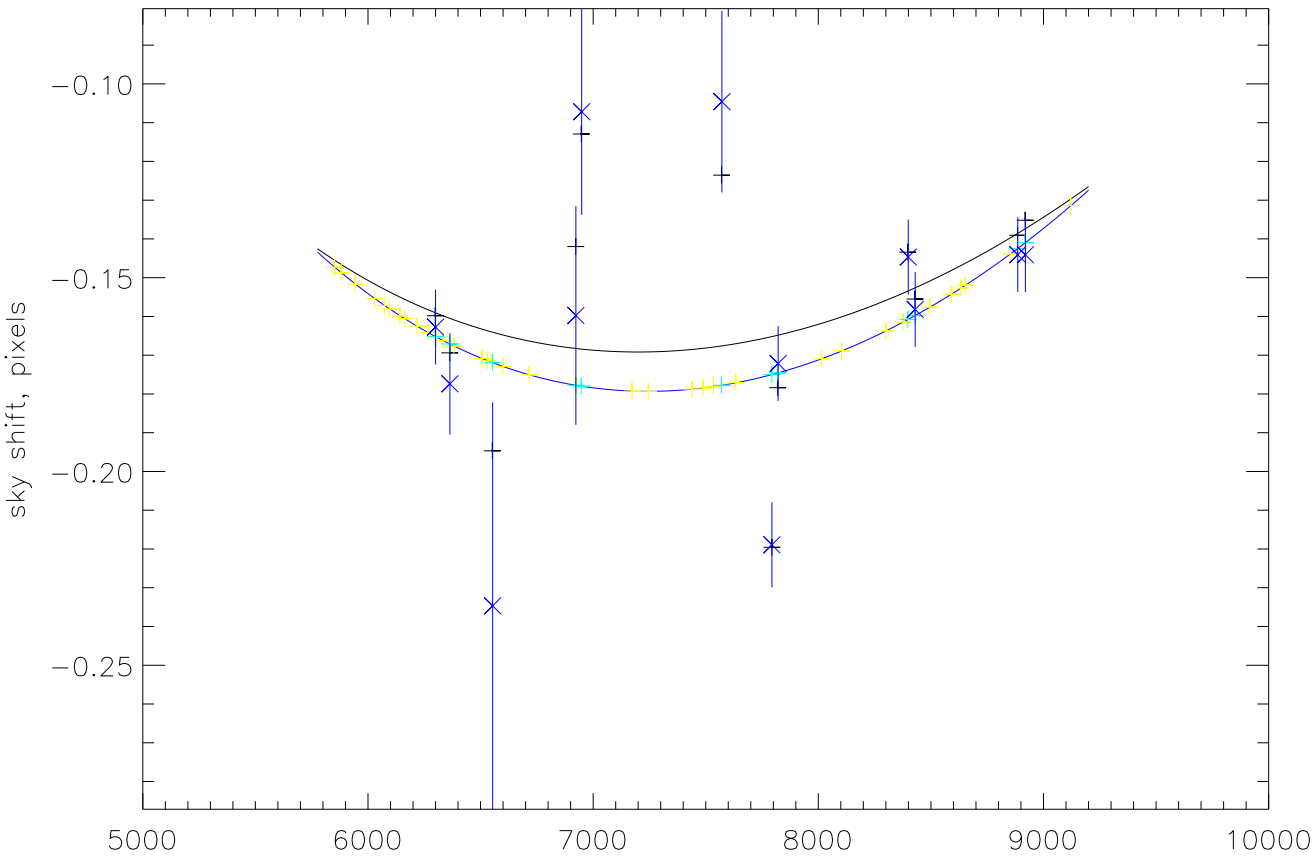

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

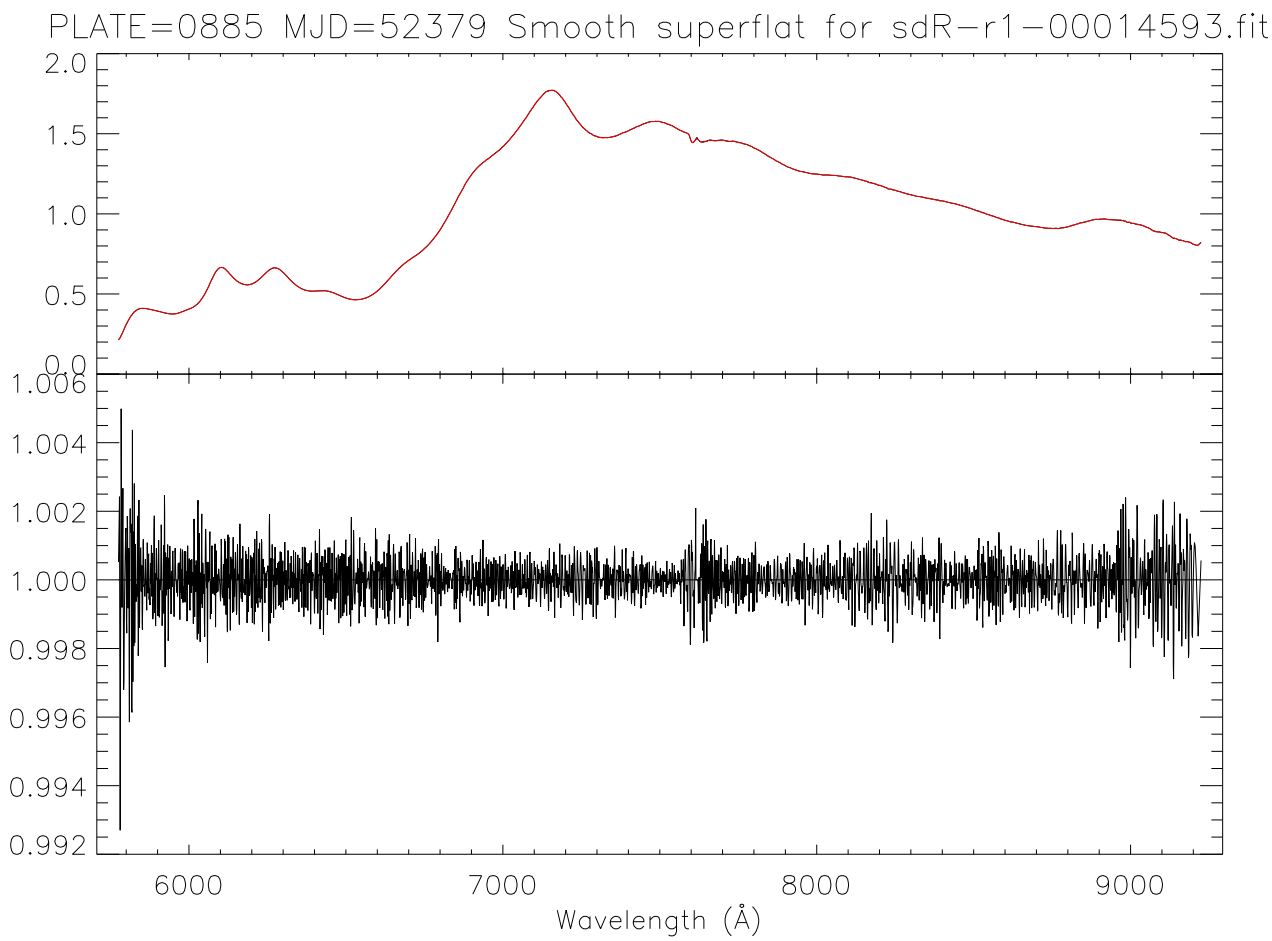

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

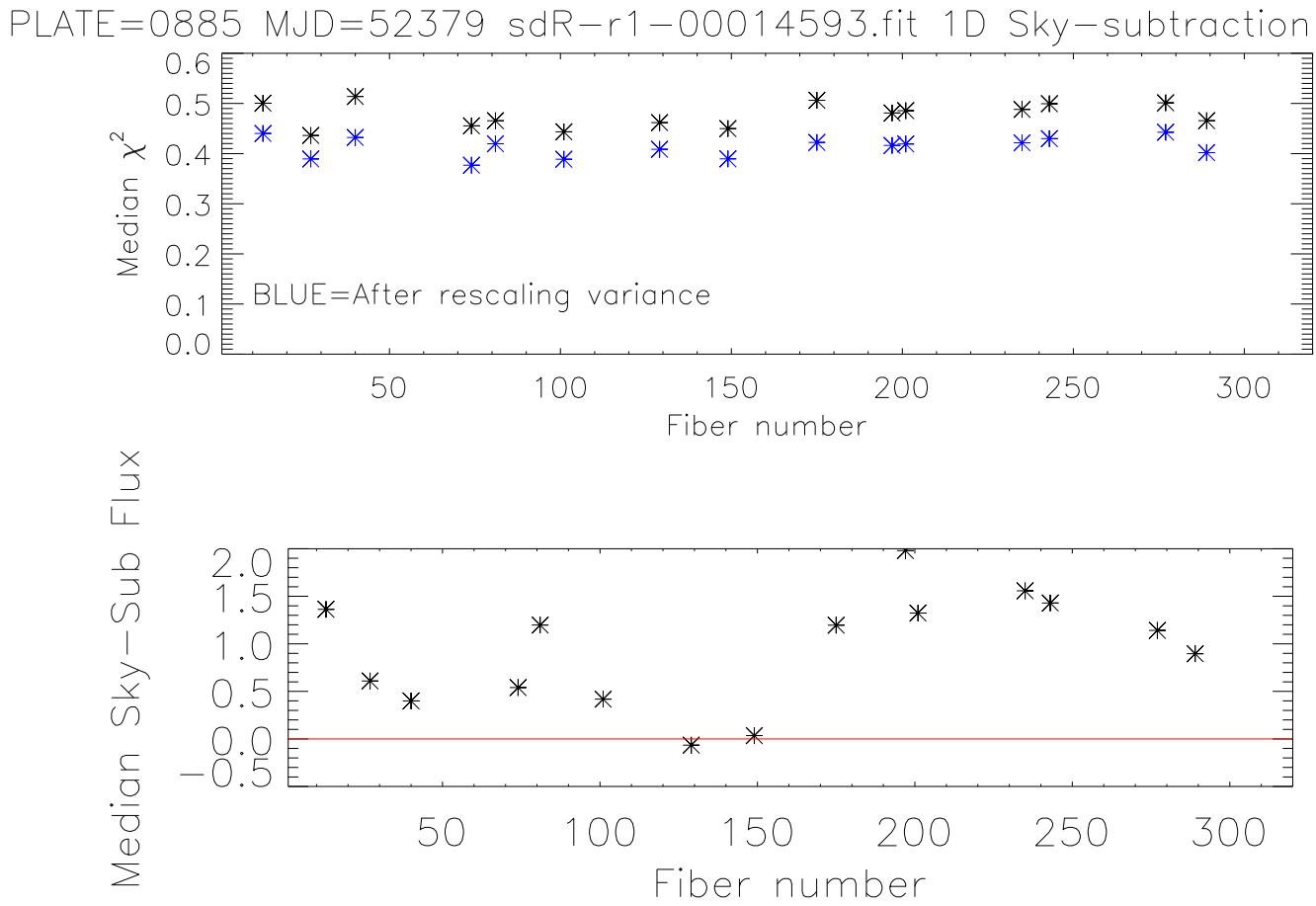

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

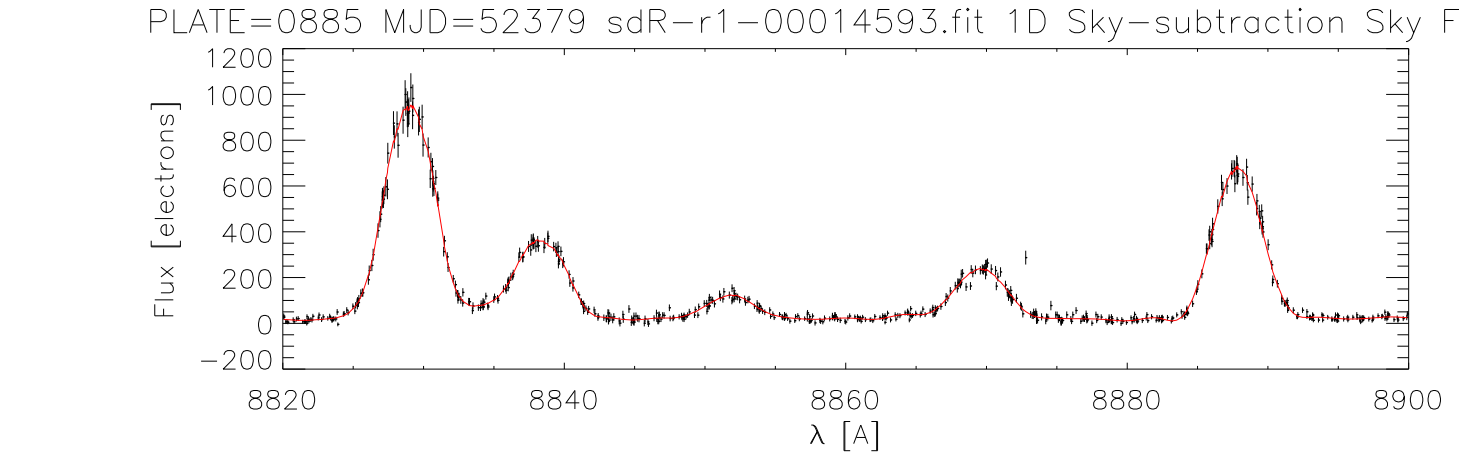

6300.3040
stdev 0.026
extra 0.46
6363.7760
stdev 0.050
extra 0.18
6553.6100
stdev 0.138
extra 0.23
6923.2100
stdev 0.072
extra 0.16
6949.0300
stdev 0.086
extra 0.31
7571.7500
stdev 0.071
extra 0.10
7794.1200
stdev 0.065
extra 0.22
7821.5100
stdev 0.041
extra 0.17
8399.1600
stdev 0.040
extra 0.14
8430.1700
stdev 0.040
extra 0.16
8885.8300
stdev 0.039
extra 0.14
8919.6100
stdev 0.036
extra 0.14
meas − pred, pix
mfh32 16
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

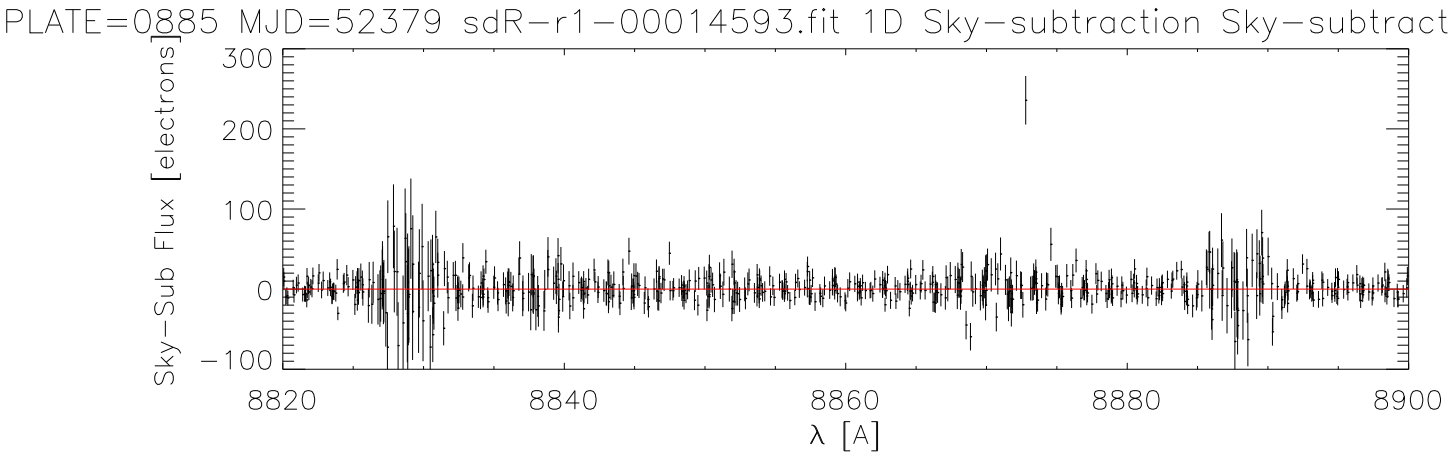

−0.10
−0.15
−0.20
−0.25
sky shift, pixels
5000
6000
7000
8000
9000
10000

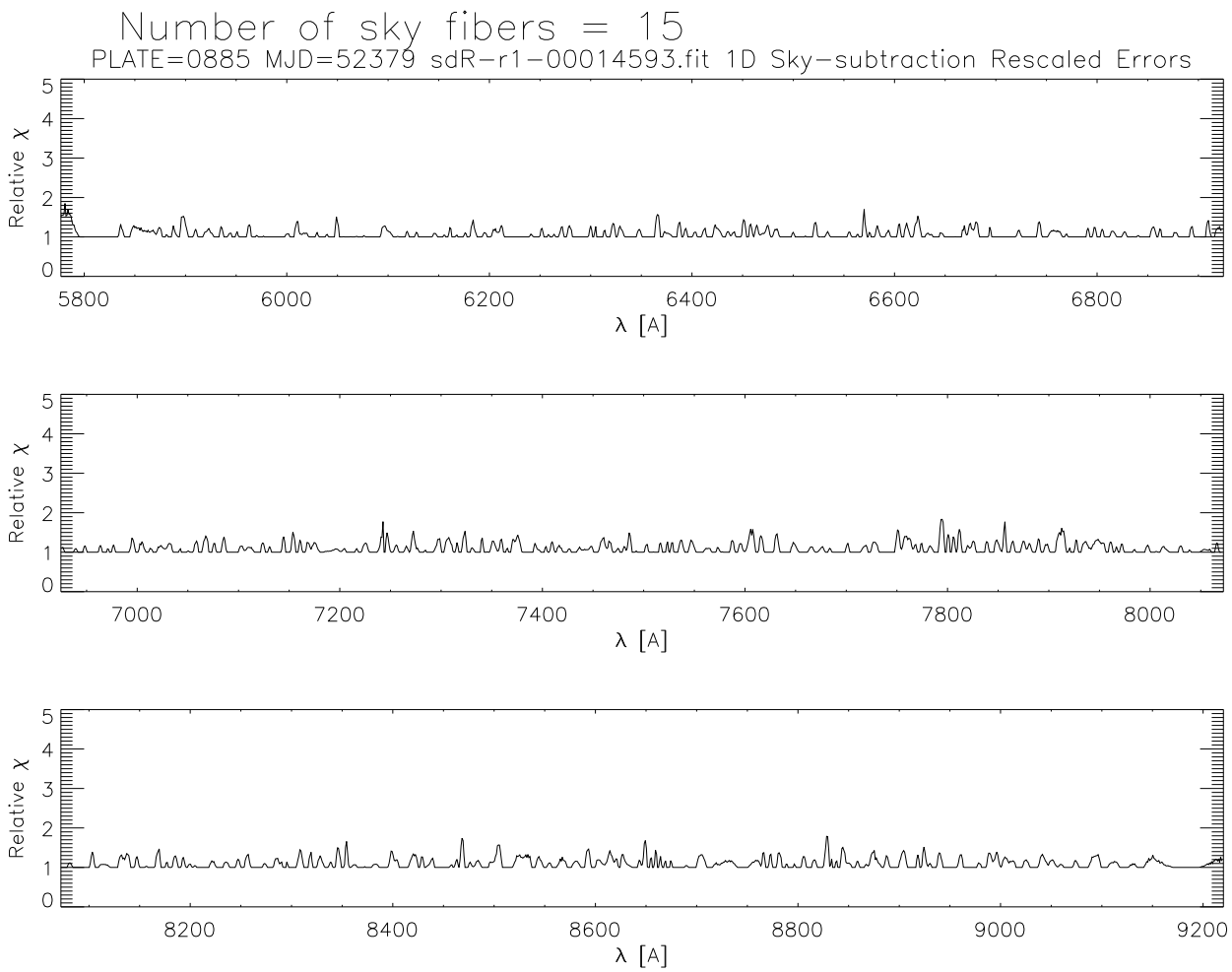
es= 0.0000

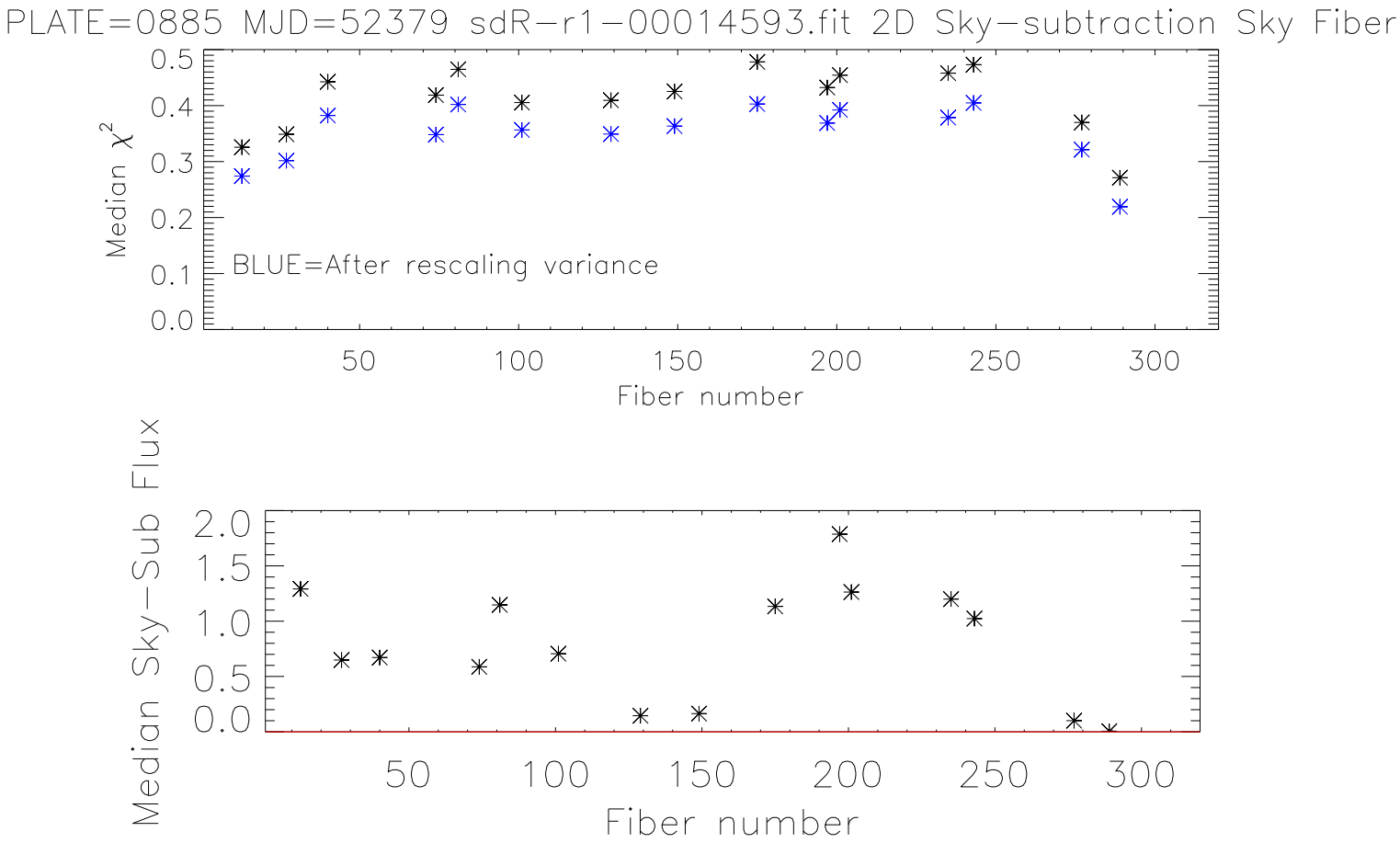

PLATE=0885 MJD=52379 Smooth superflat for sdR-r1-00014593.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

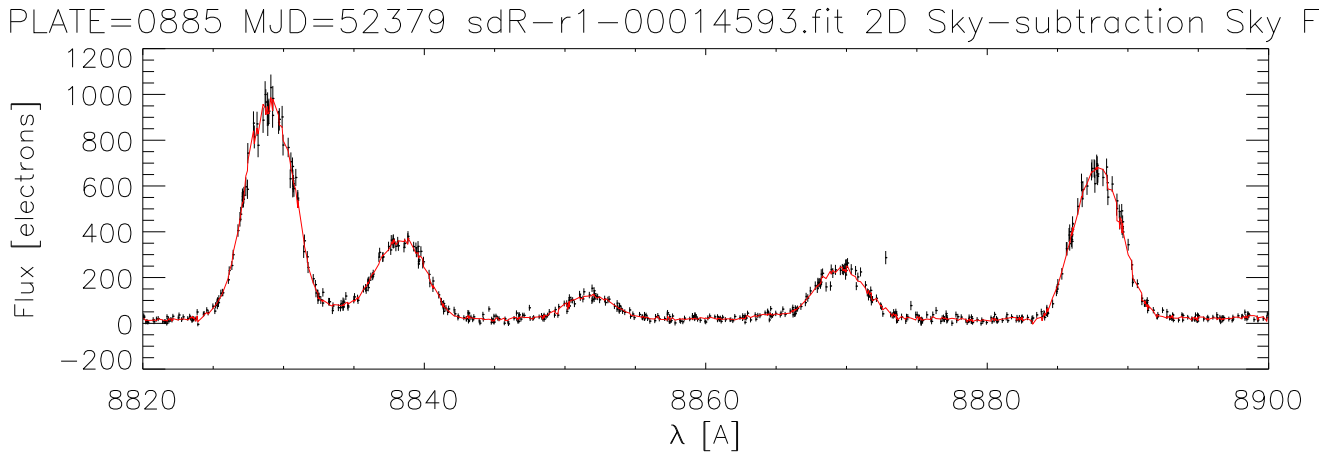

PLATE=0885 MJD=52379 sdR-r1-00014593.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

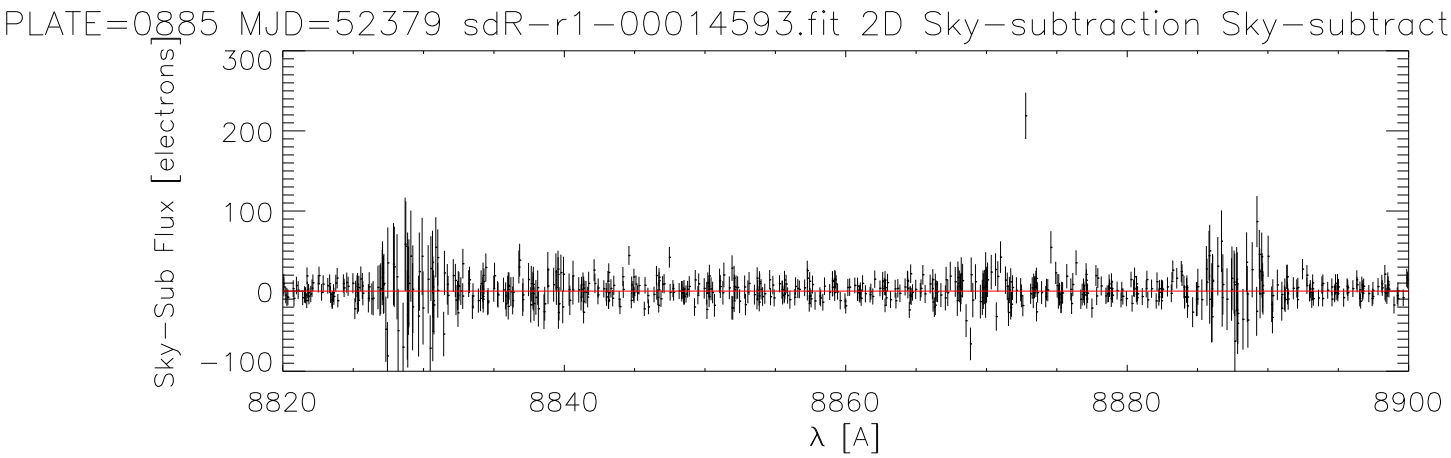

PLATE=0885 MJD=52379 sdR-r1-00014593.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

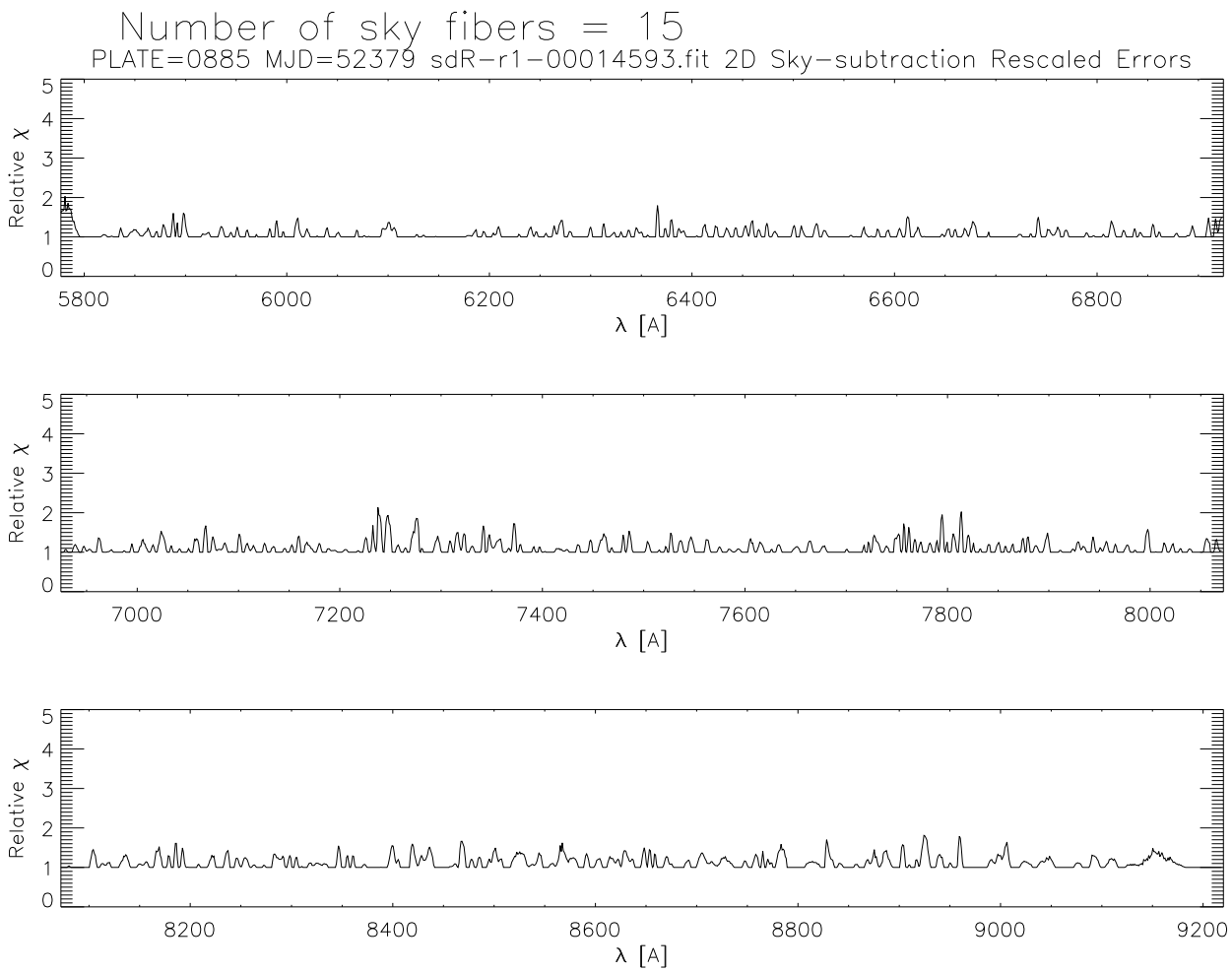

PLATE=0885 MJD=52379 sdR-r1-00014593.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
8820
8840
8860
8880
8900
λ [A]

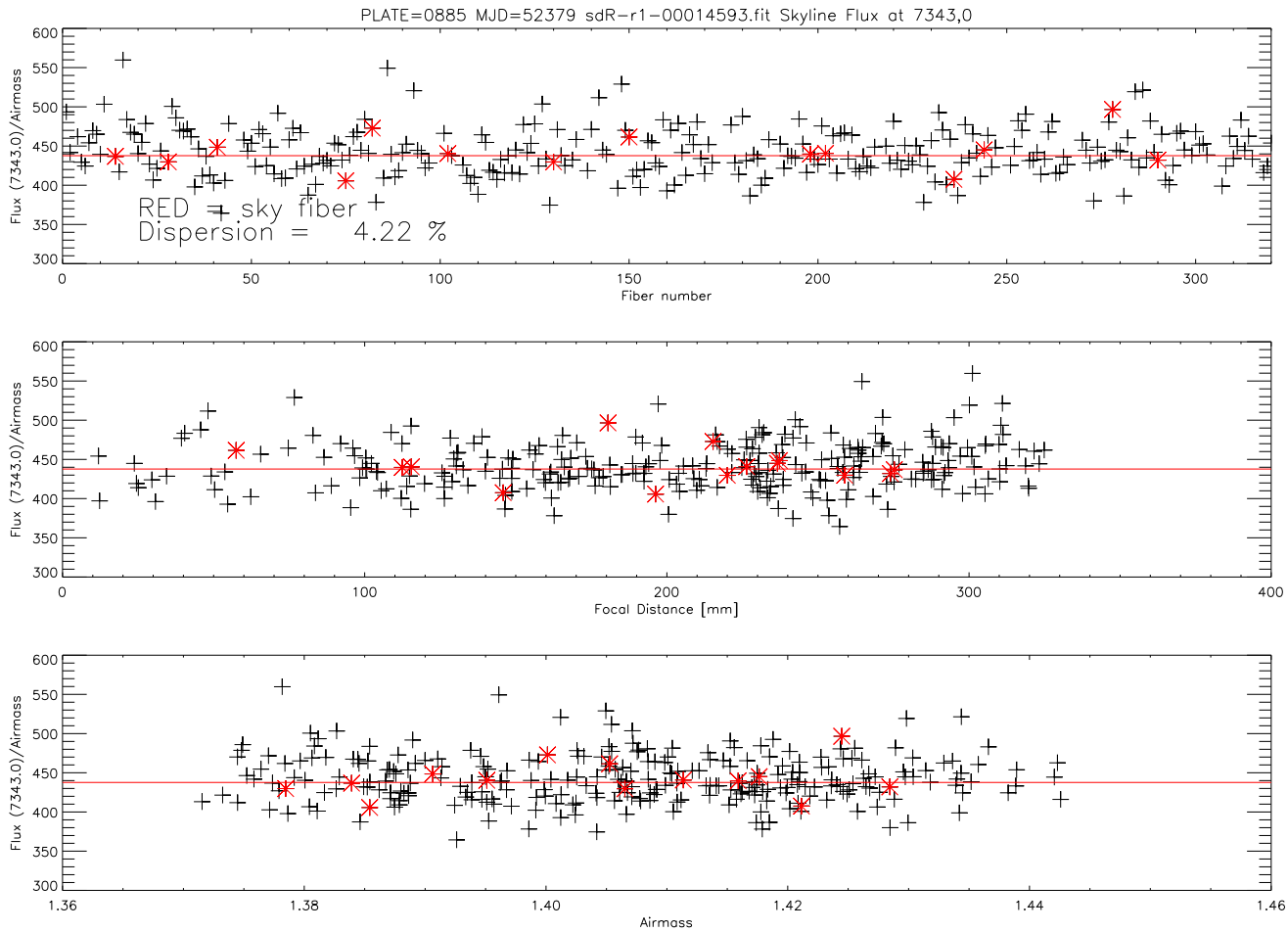

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-r1-00014593.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

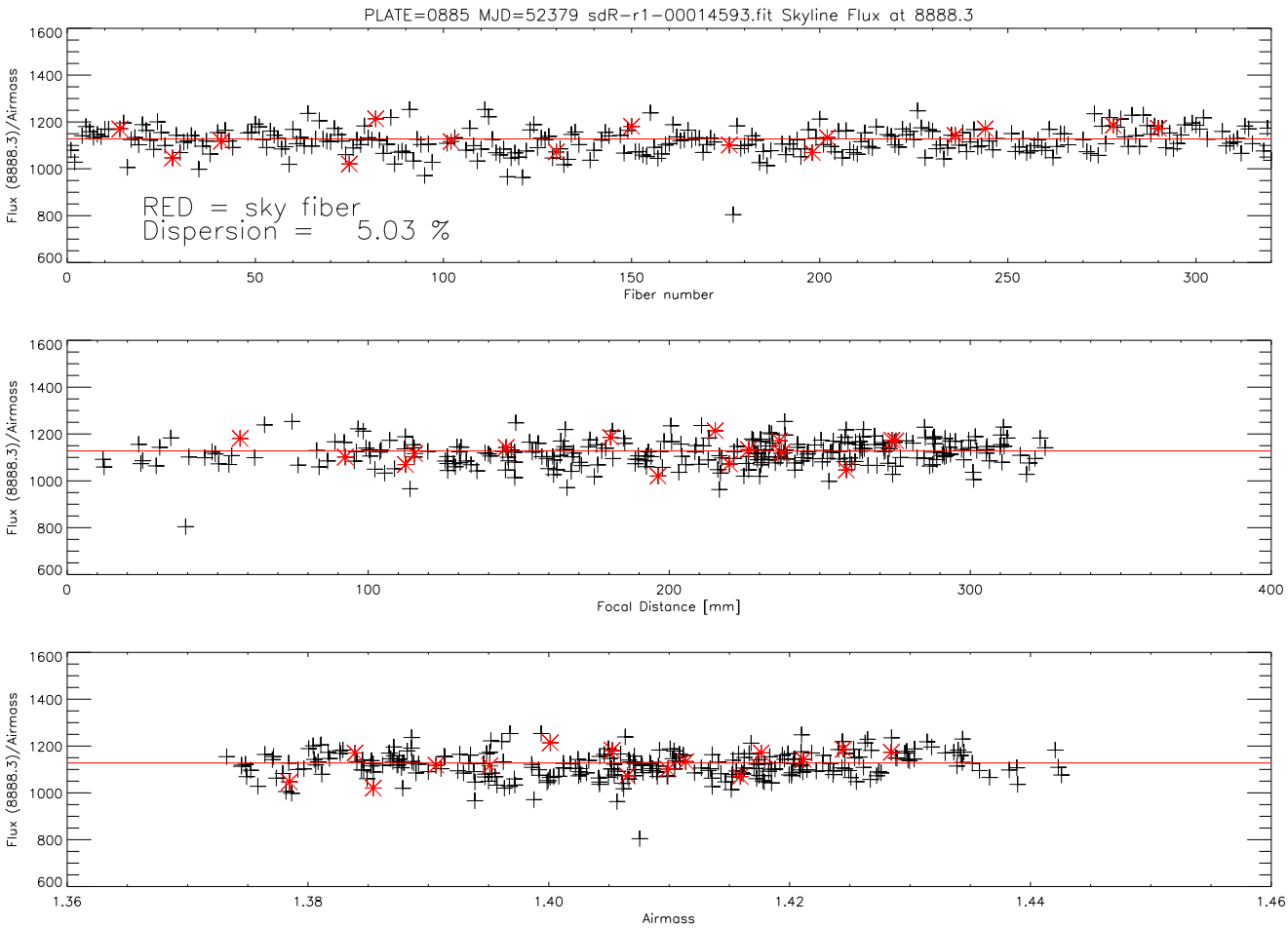

PLATE=0885 MJD=52379 sdR-r1-00014593.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

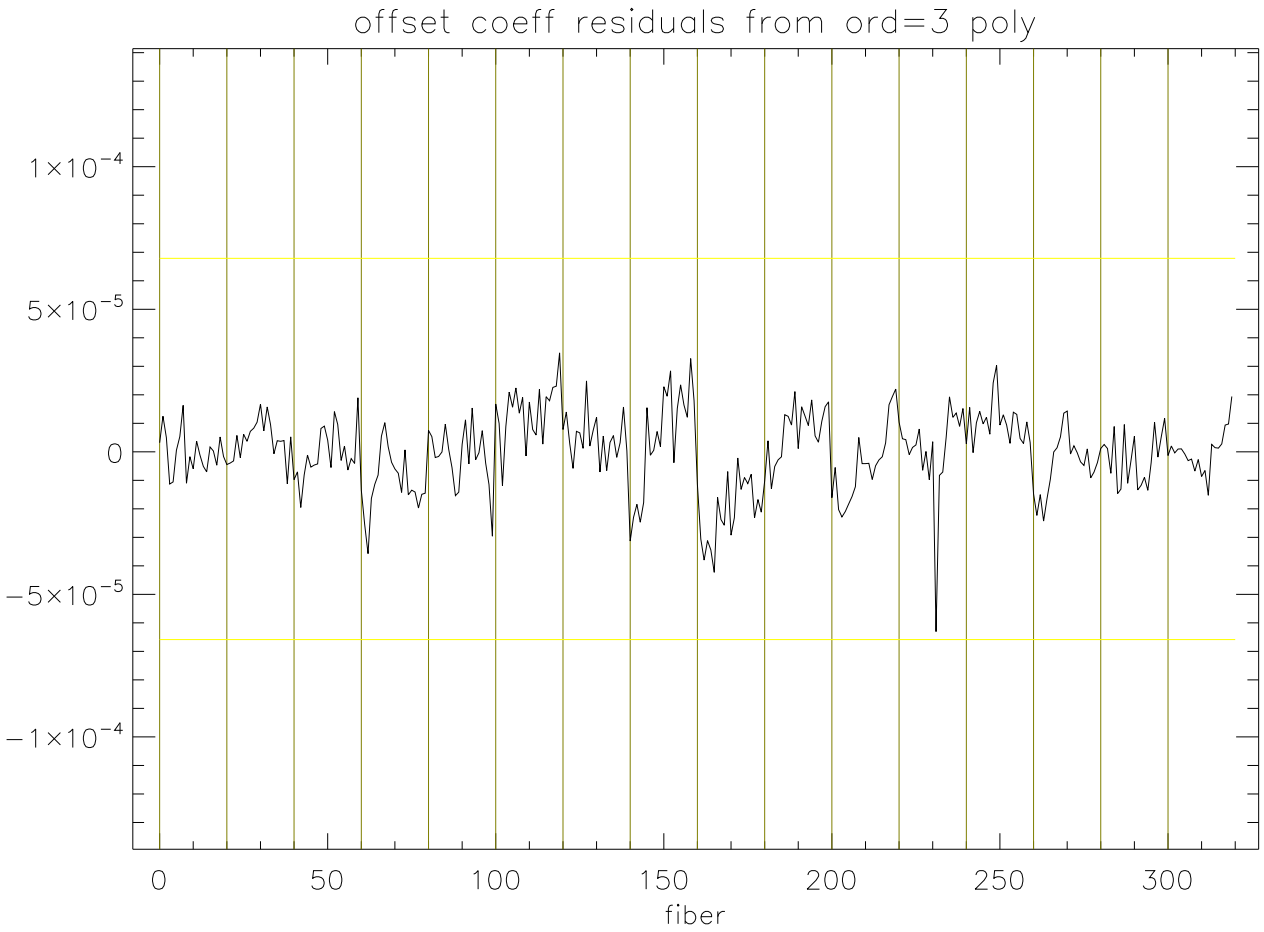

PLATE=0885 MJD=52379 sdR-r1-00014593.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

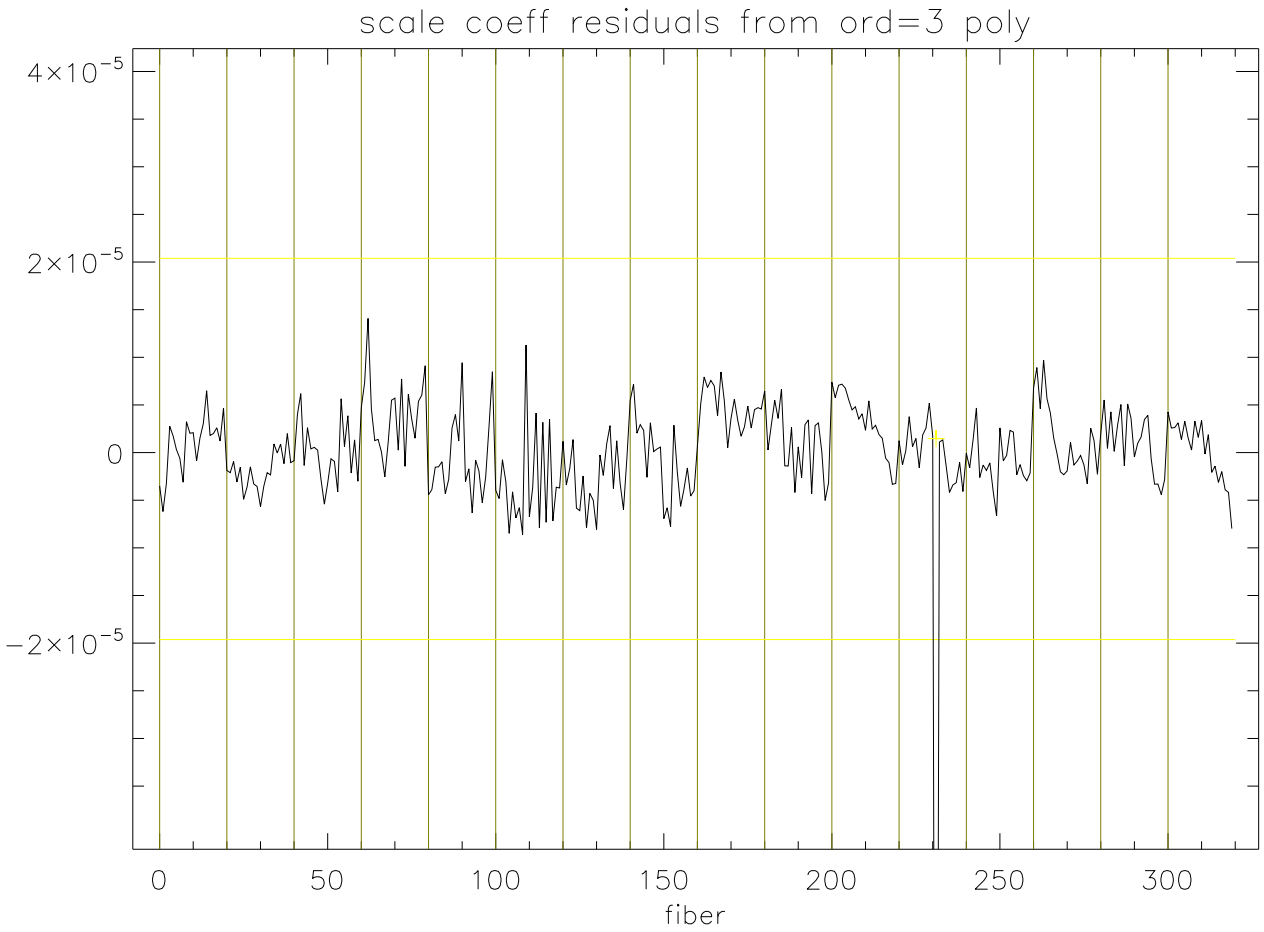

PLATE=0885 MJD=52379 sdR-r1-00014593.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
8820
8840
8860
8880
8900
λ [A]

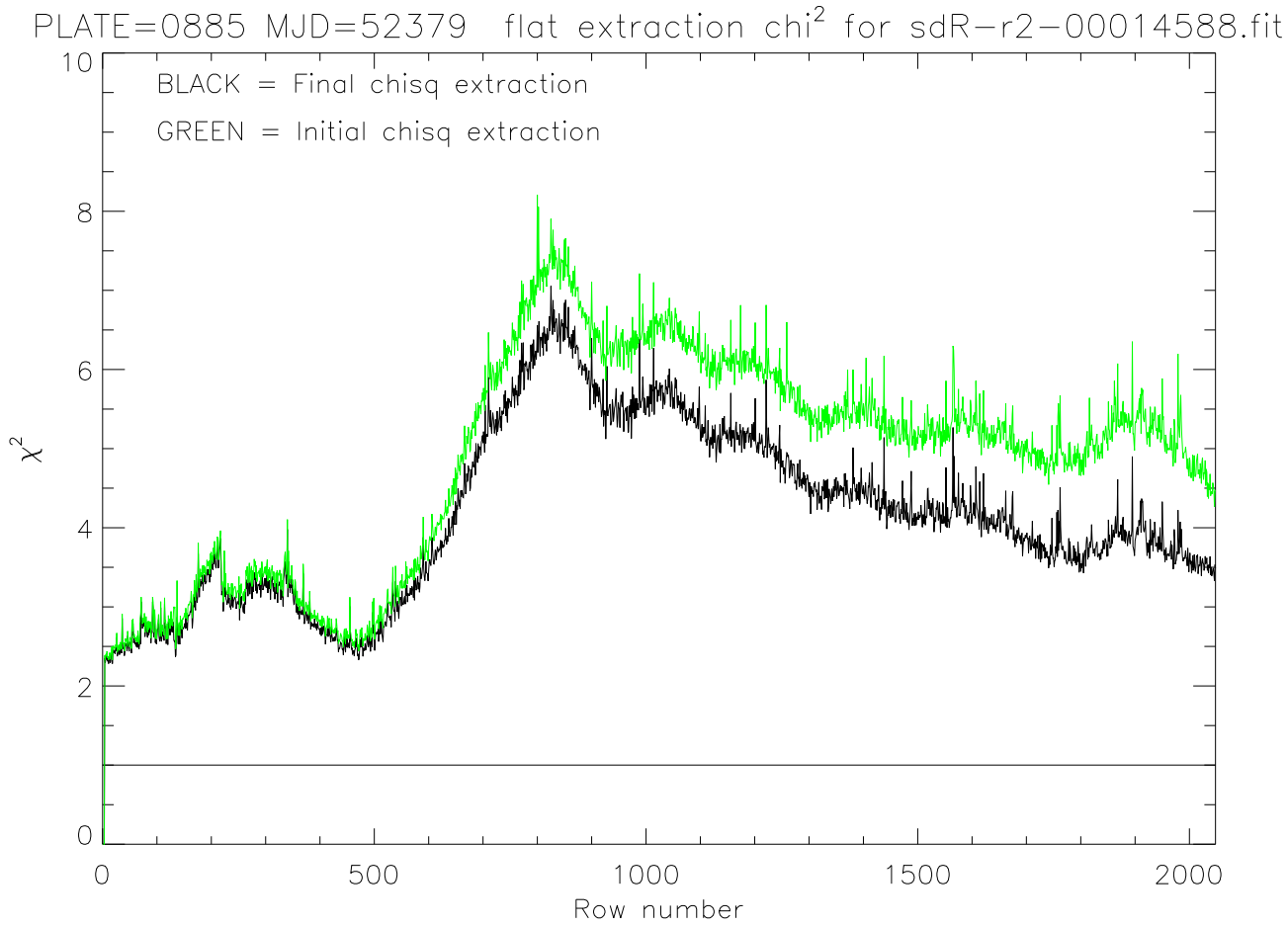

Number of sky fibers = 15
PLATE=0885 MJD=52379 sdR-r1-00014593.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

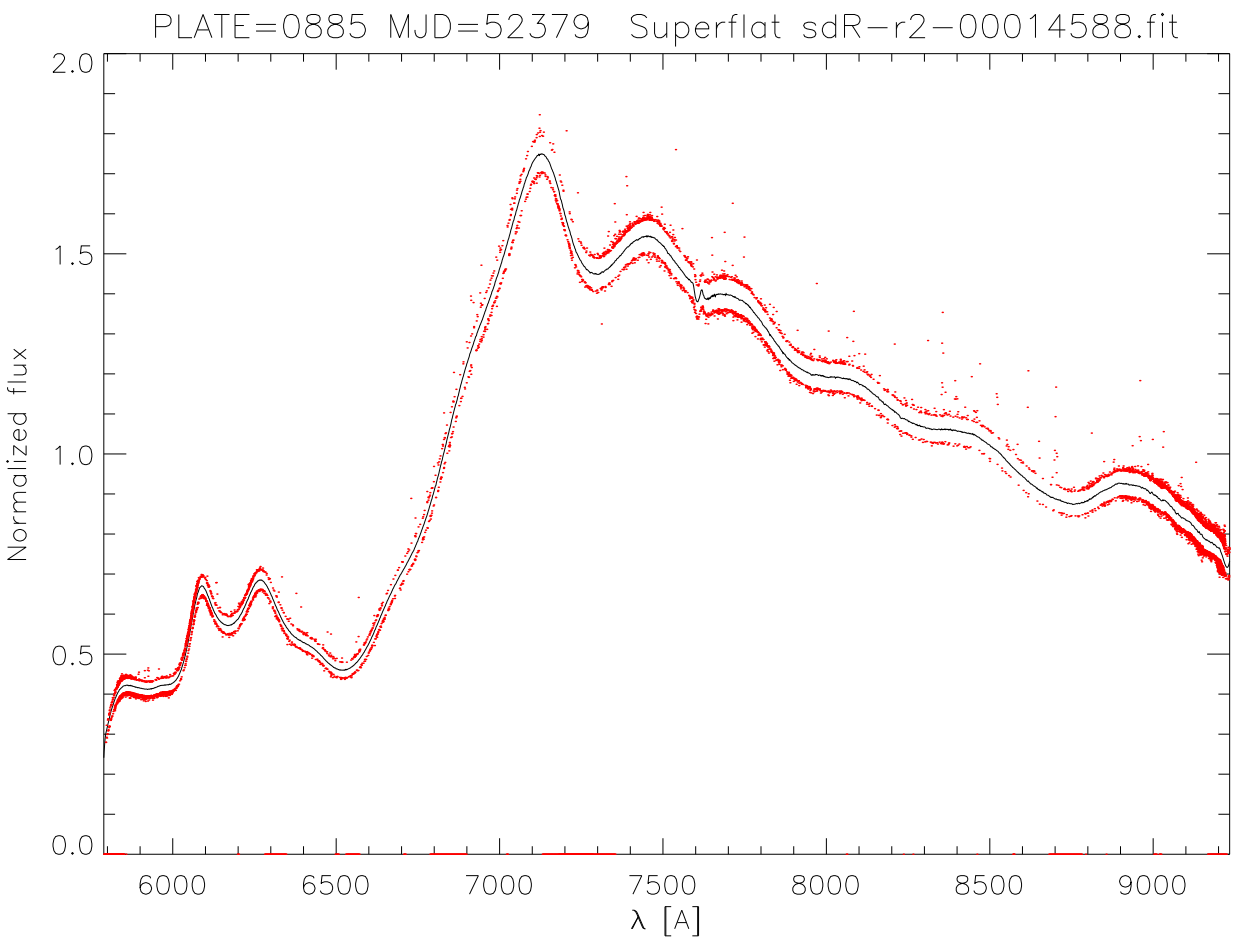

PLATE=0885 MJD=52379 sdR-r1-00014593.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.22 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

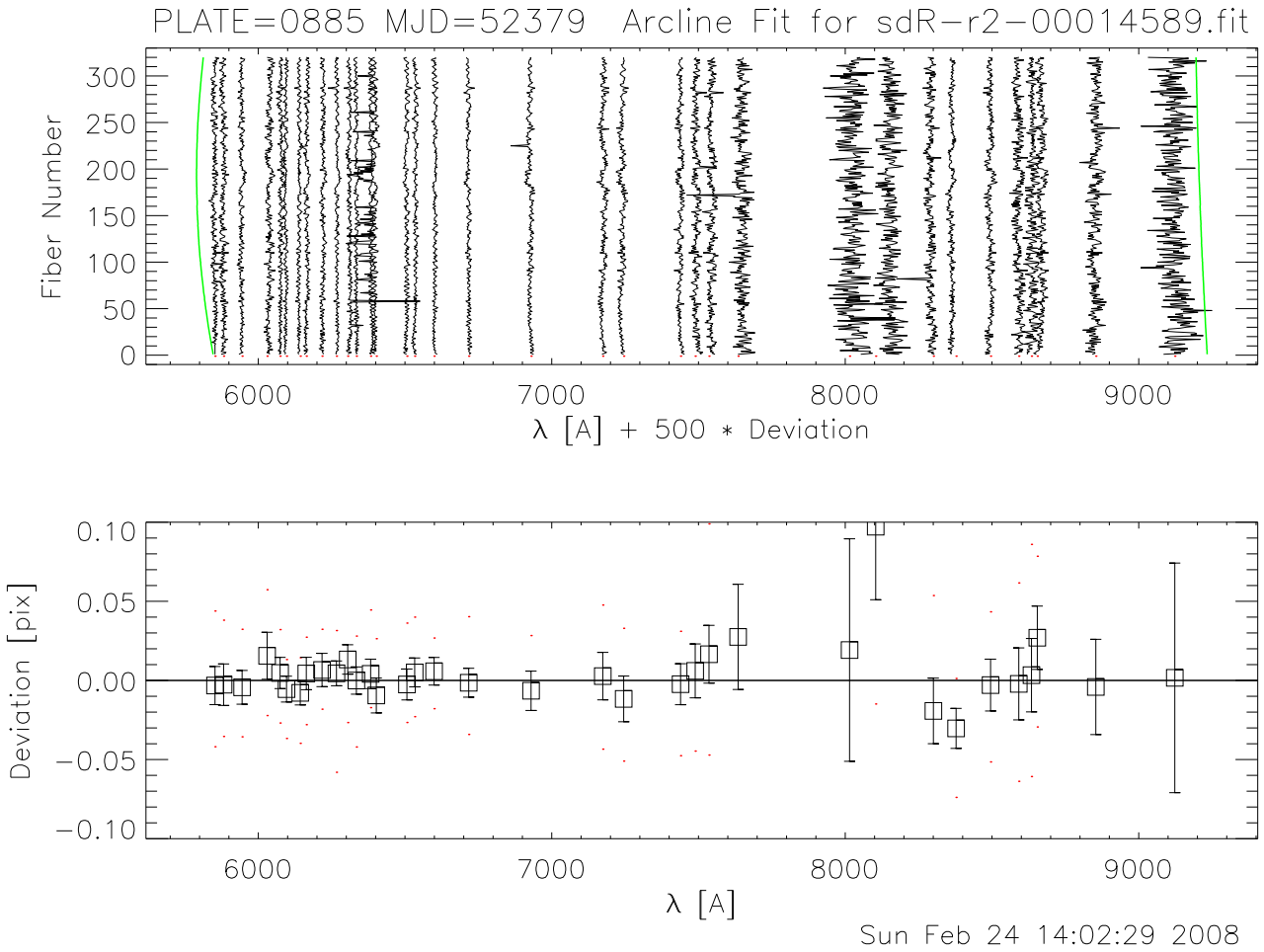

PLATE=0885 MJD=52379 sdR-r1-00014593.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.03 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

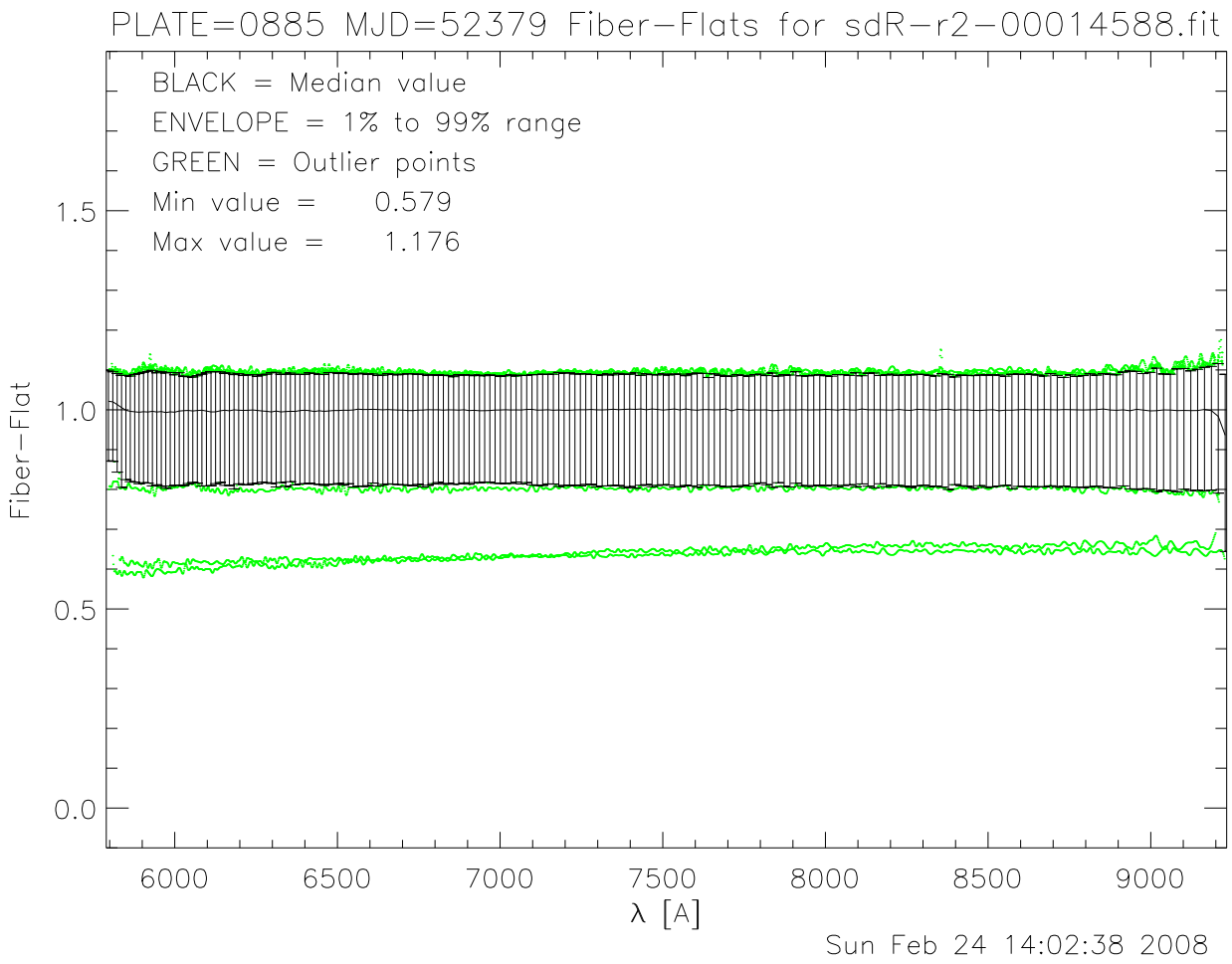

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

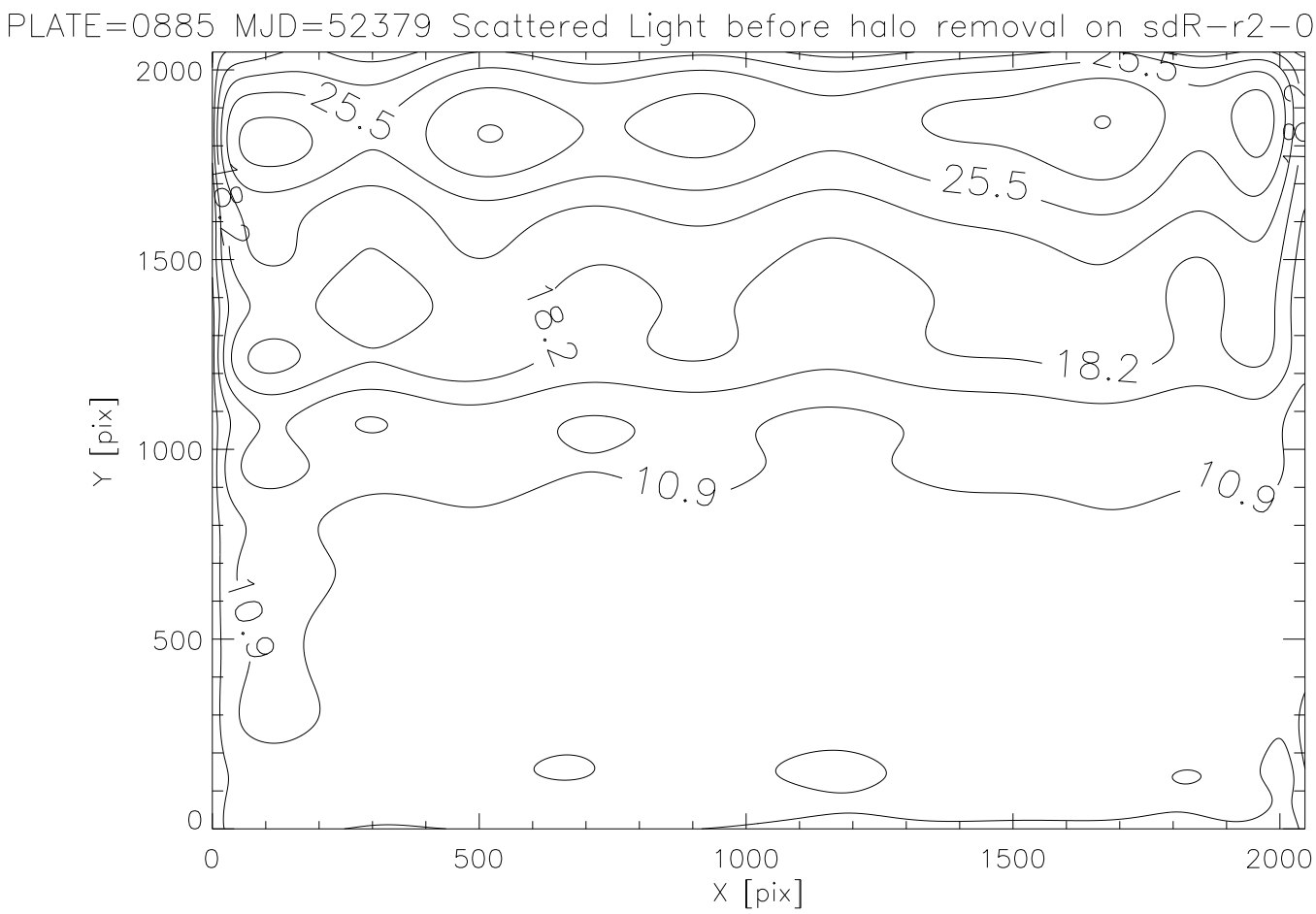

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

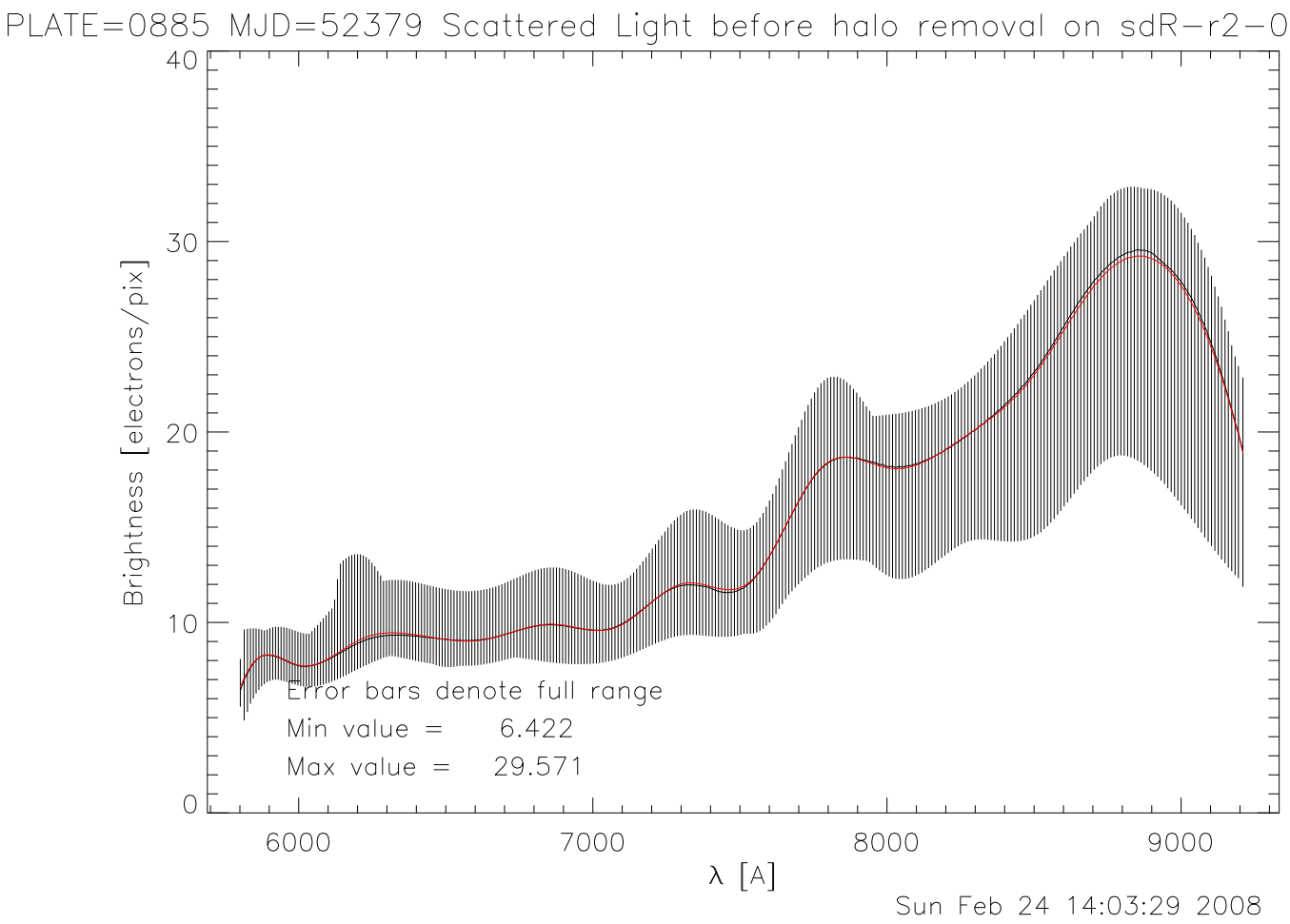

PLATE=0885 MJD=52379 flat extraction chi^2 for sdR−r2−00014588.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

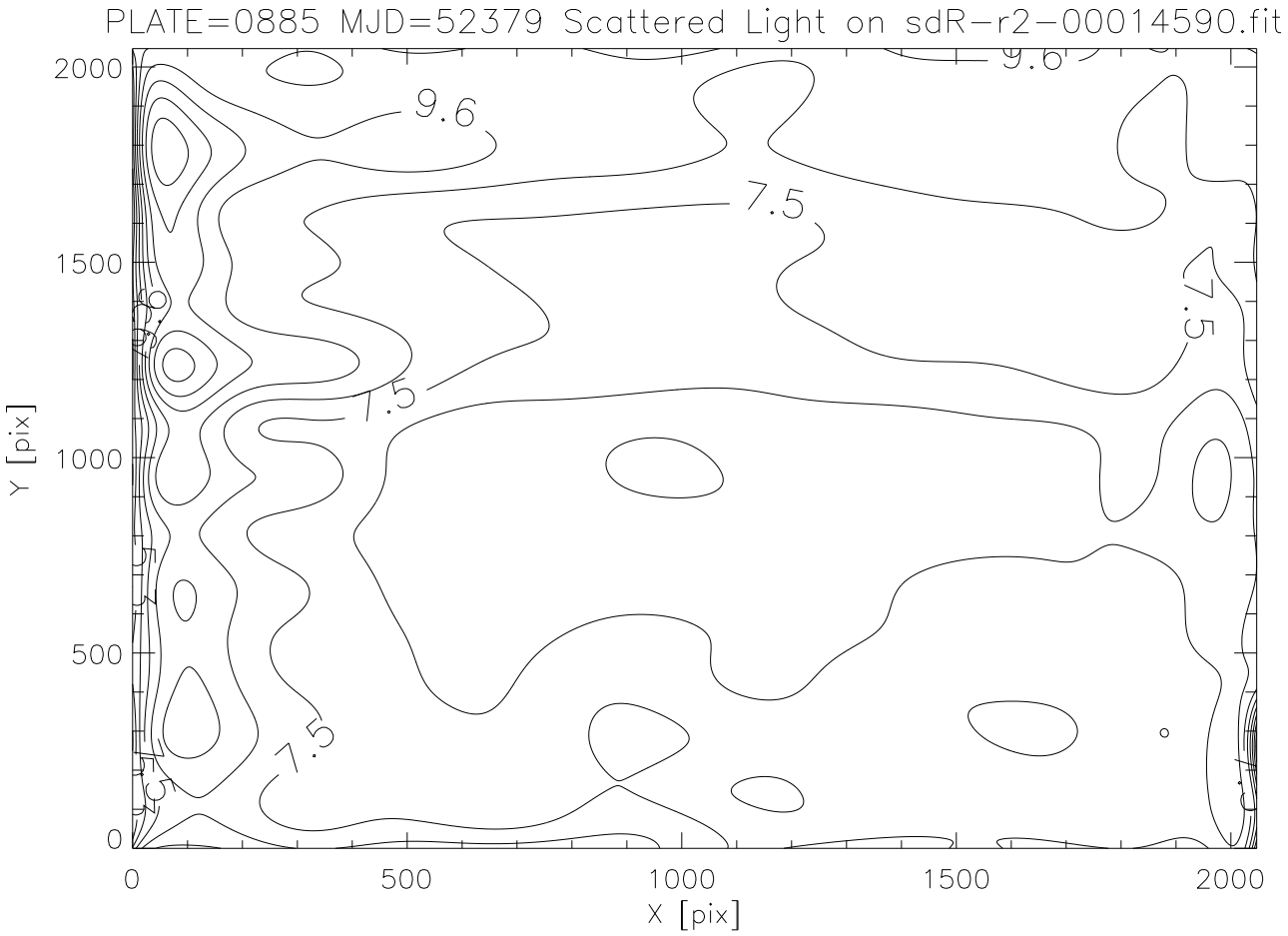

PLATE=0885 MJD=52379 Superflat sdR-r2-00014588.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

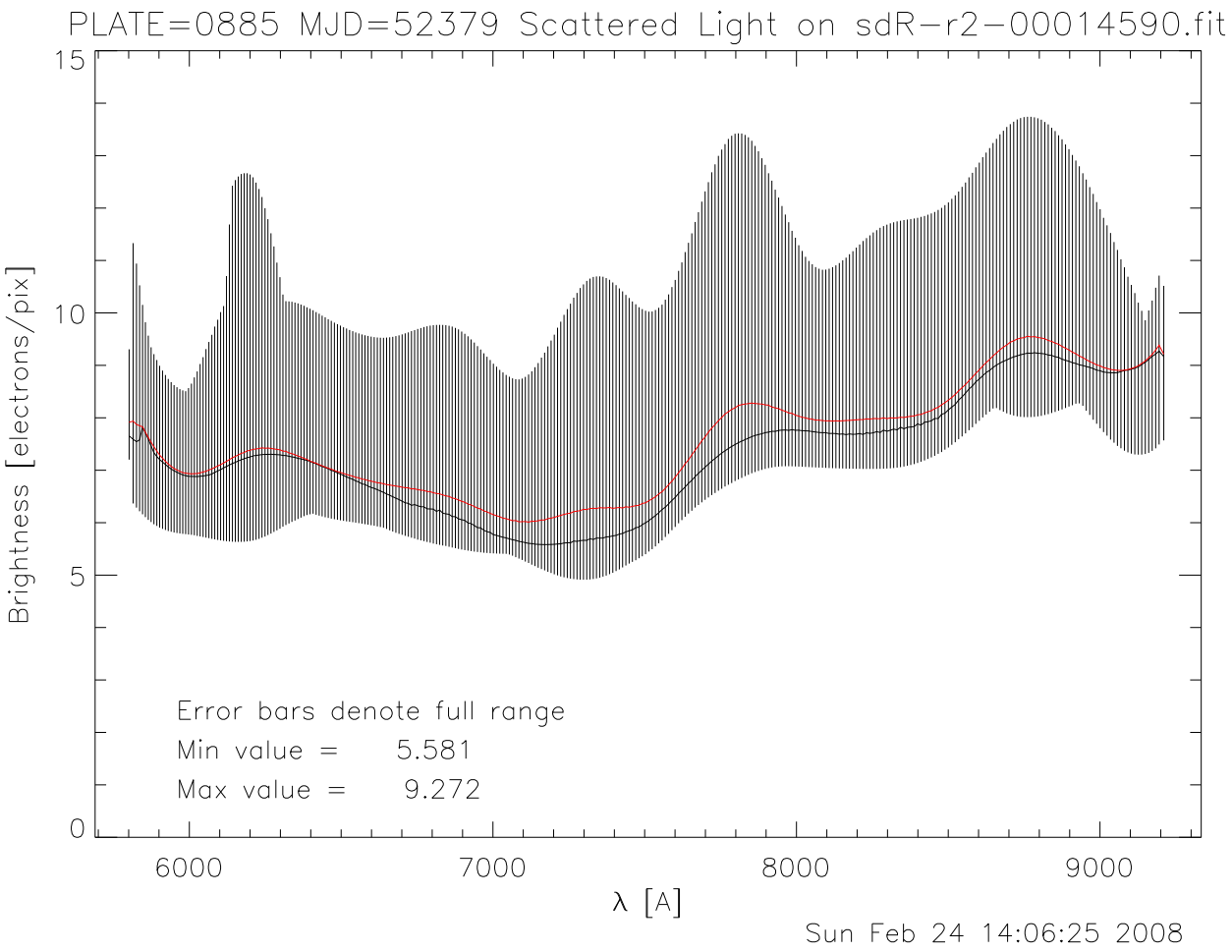

PLATE=0885 MJD=52379 Arcline Fit for sdR-r2-00014589.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 24 14:02:29 2008

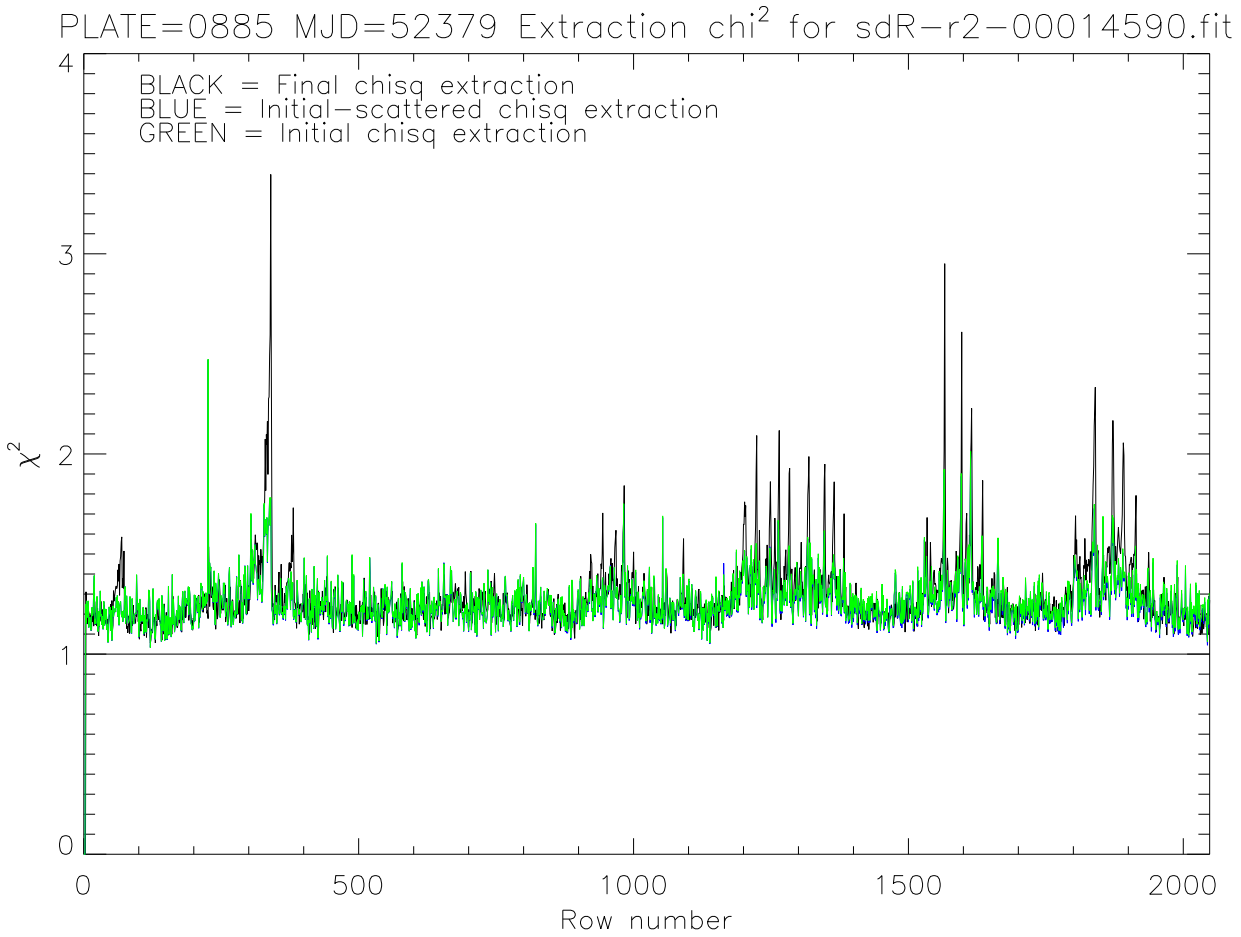

PLATE=0885 MJD=52379 Fiber−Flats for sdR−r2−00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.579
Max value = 1.176
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 24 14:02:38 2008

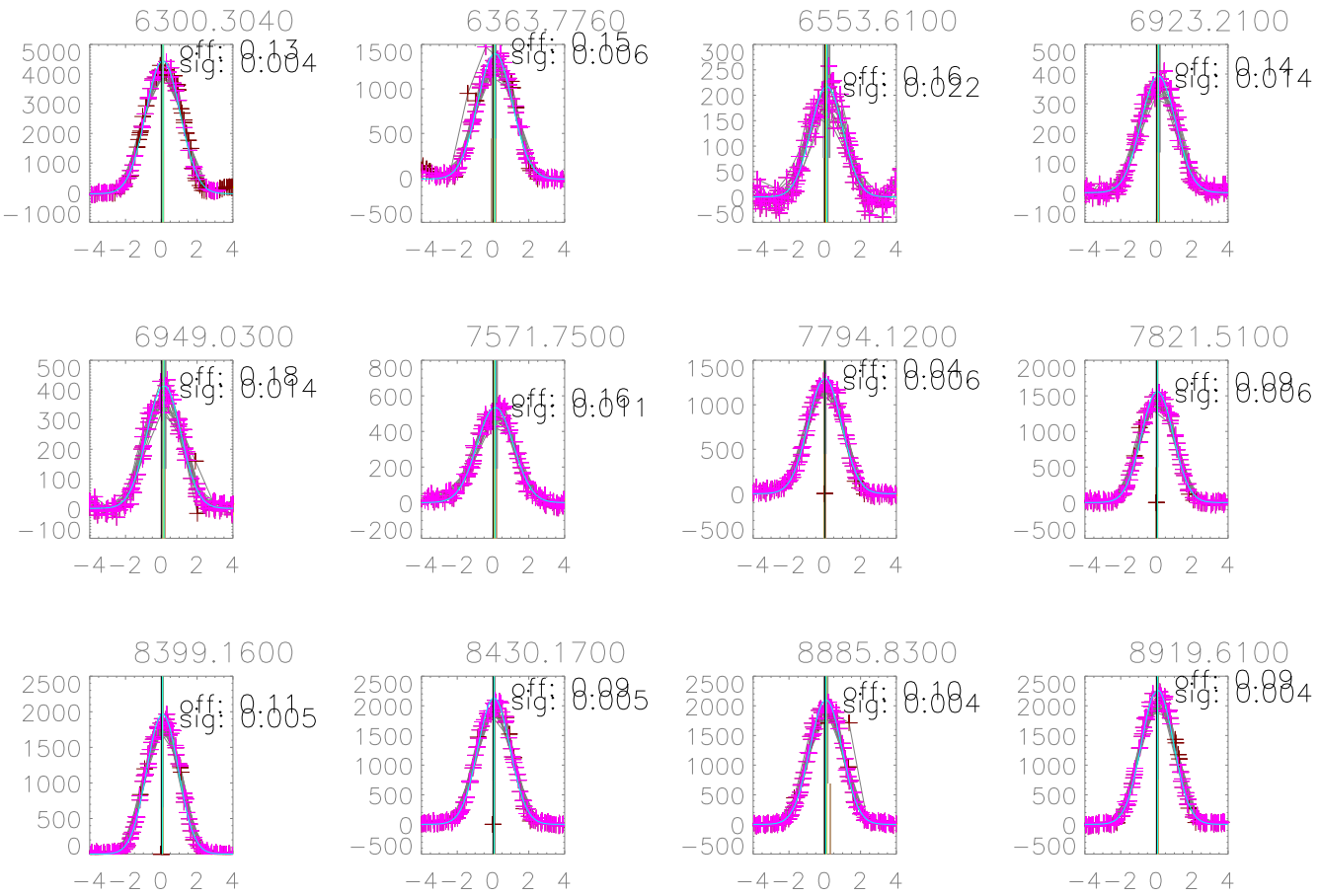

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r2-00014590.fi
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

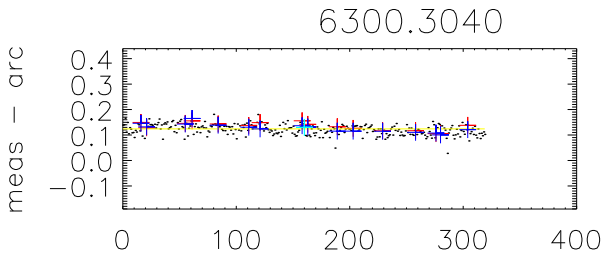

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r2-00014590.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.422
Max value = 29.571
Sun Feb 24 14:03:29 2008

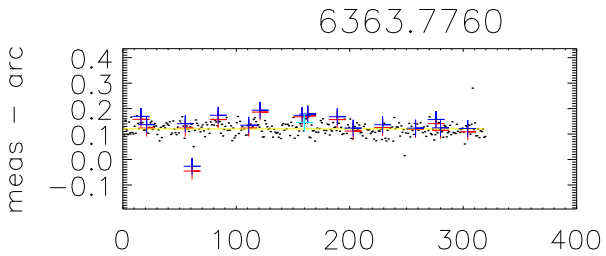

PLATE=0885 MJD=52379 Scattered Light on sdR-r2-00014590.fit
9.6
7.5
Y [pix]
X [pix]
0
500
1000
1500
2000

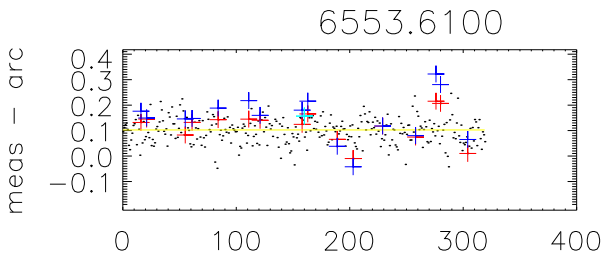

PLATE=0885 MJD=52379 Scattered Light on sdR-r2-00014590.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 5.581
Max value = 9.272
6000
7000
8000
9000
λ [A]
Sun Feb 24 14:06:25 2008

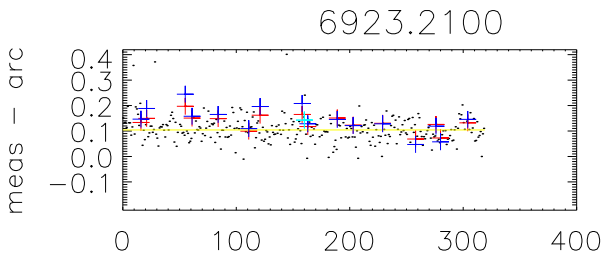

PLATE=0885 MJD=52379 Extraction chi^2 for sdR−r2−00014590.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

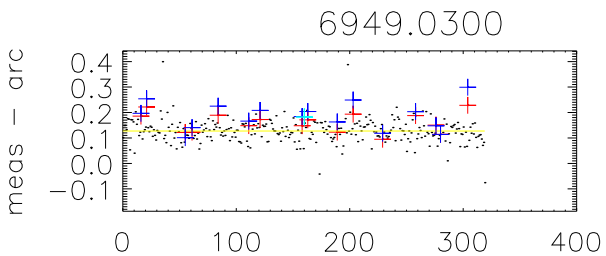

6300.3040
off: 0.13
sig: 0.004
6363.7760
off: 0.15
sig: 0.006
6553.6100
off: 0.16
sig: 0.022
6923.2100
off: 0.14
sig: 0.014
6949.0300
off: 0.18
sig: 0.014
7571.7500
off: 0.16
sig: 0.011
7794.1200
off: 0.04
sig: 0.006
7821.5100
off: 0.09
sig: 0.006
8399.1600
off: 0.11
sig: 0.005
8430.1700
off: 0.09
sig: 0.005
8885.8300
off: 0.10
sig: 0.004
8919.6100
off: 0.09
sig: 0.004

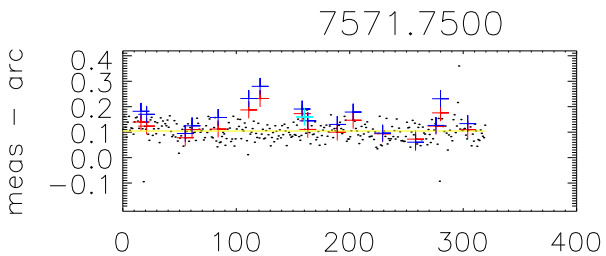

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

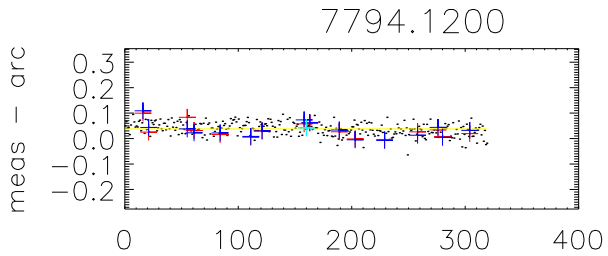

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

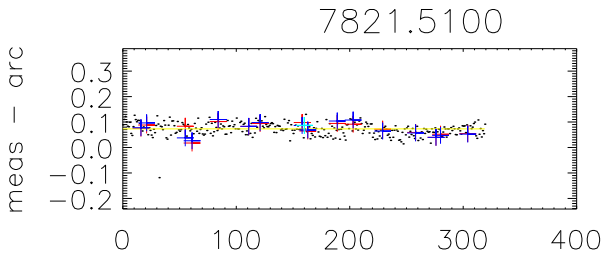

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

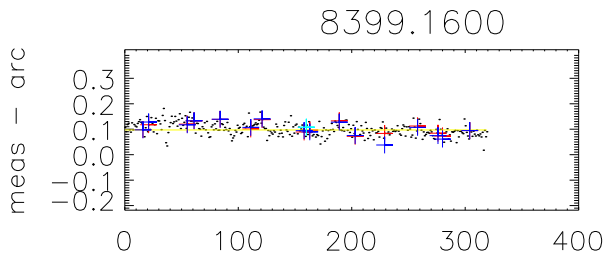

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

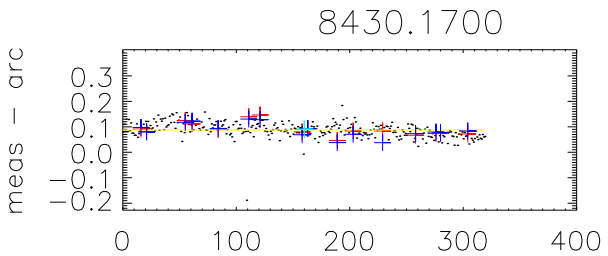

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

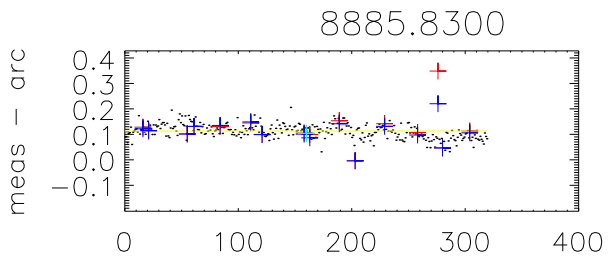

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

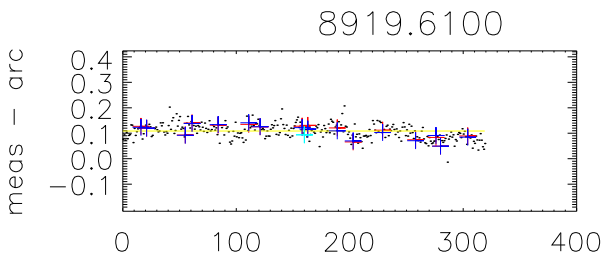

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

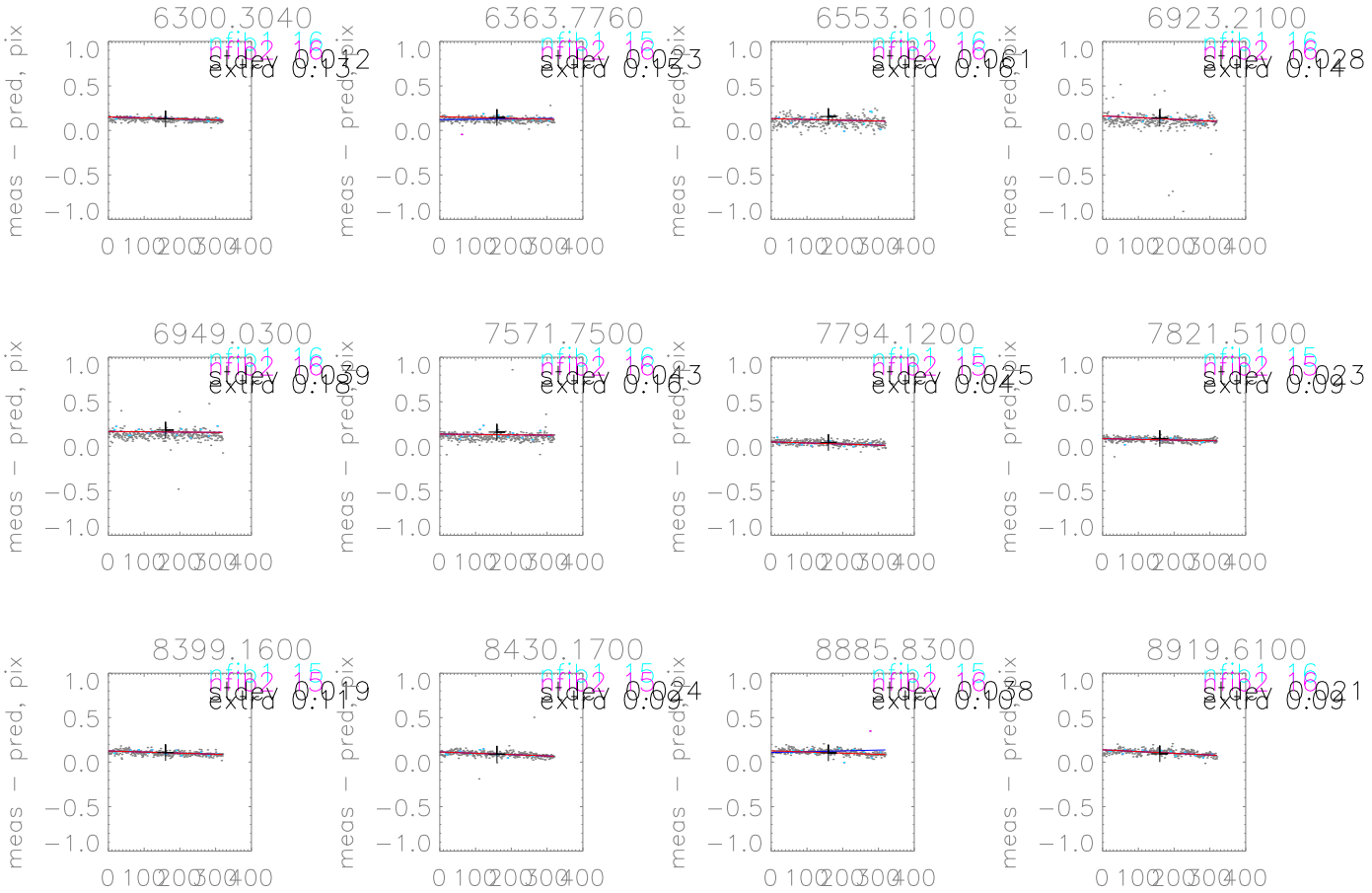

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

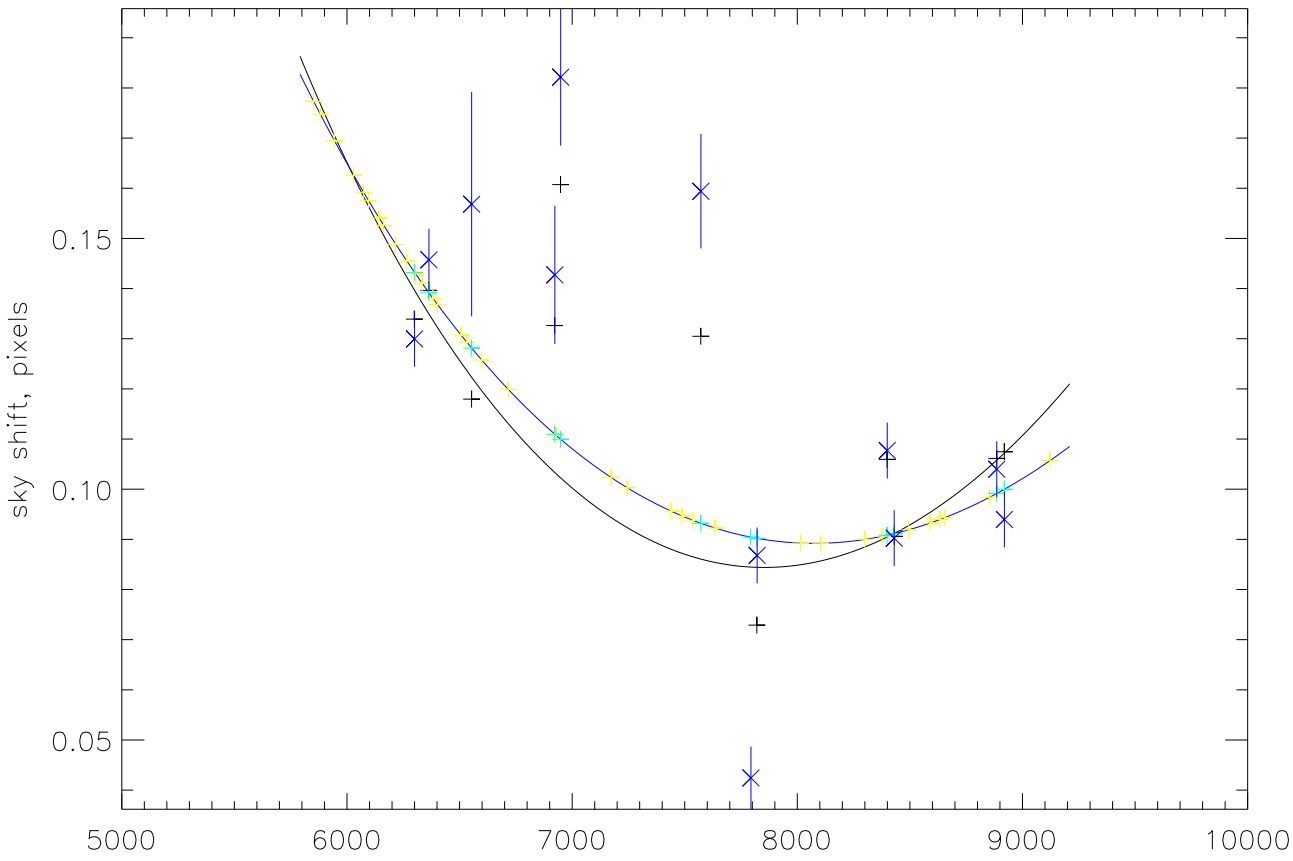

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

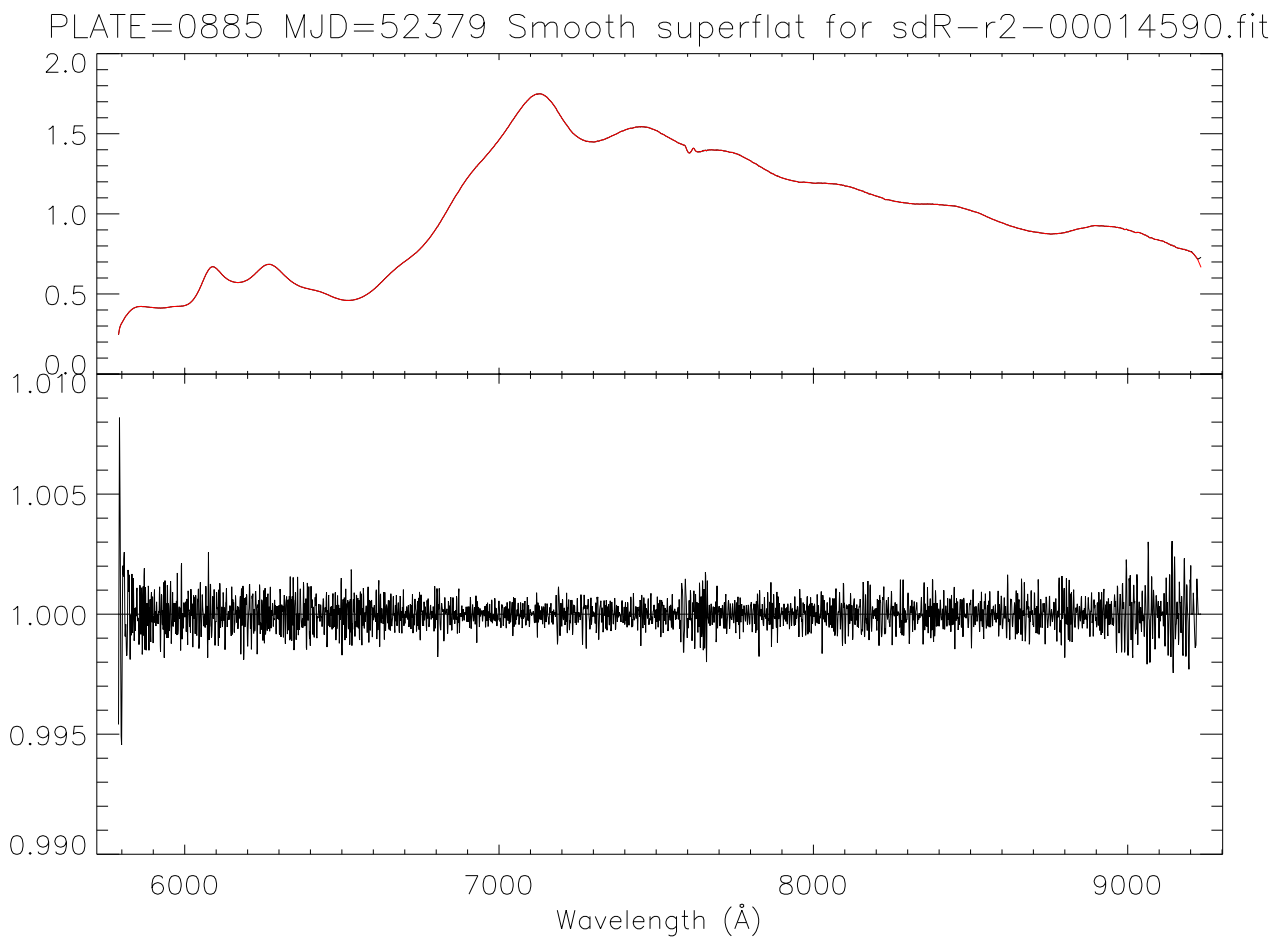

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

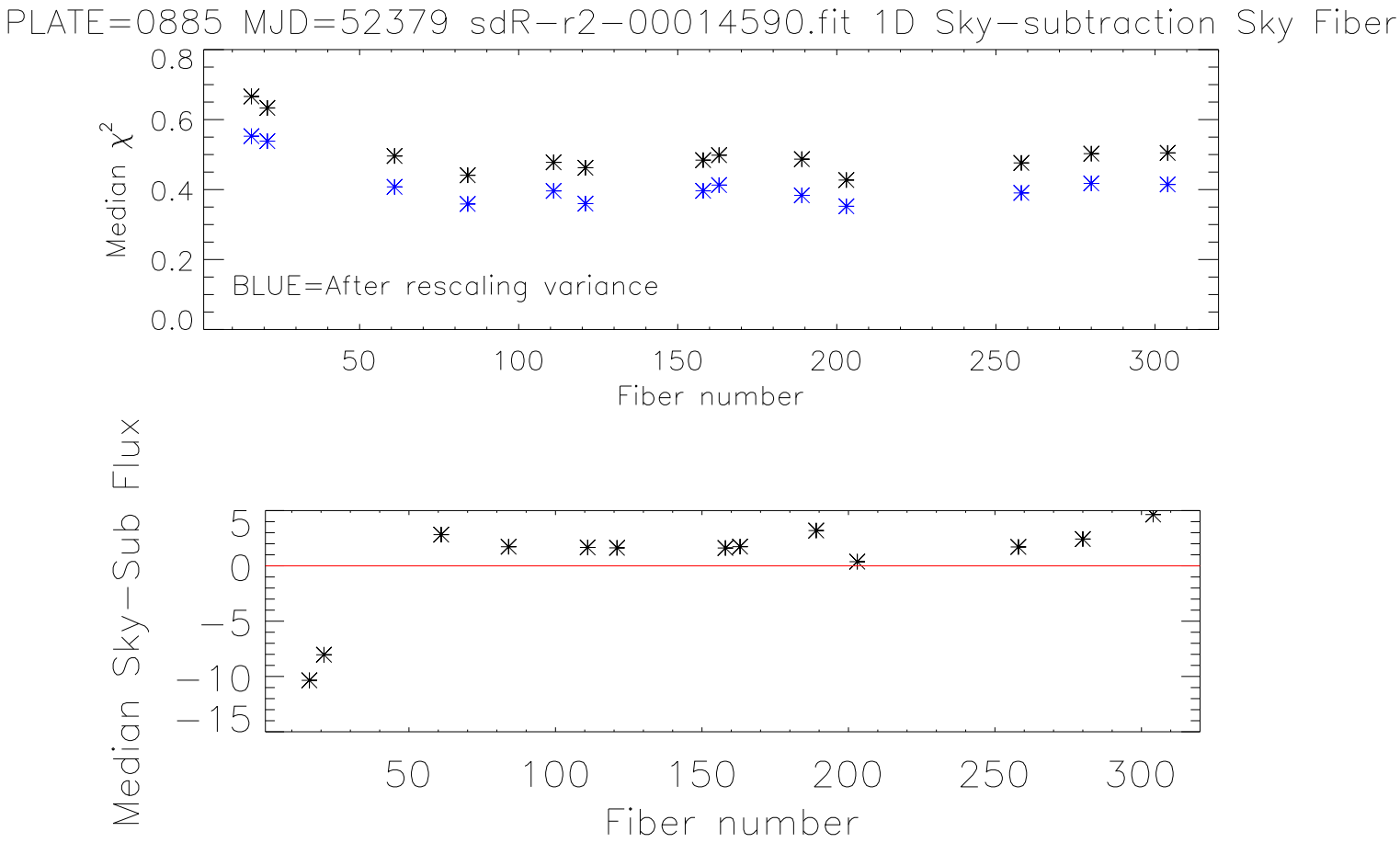

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

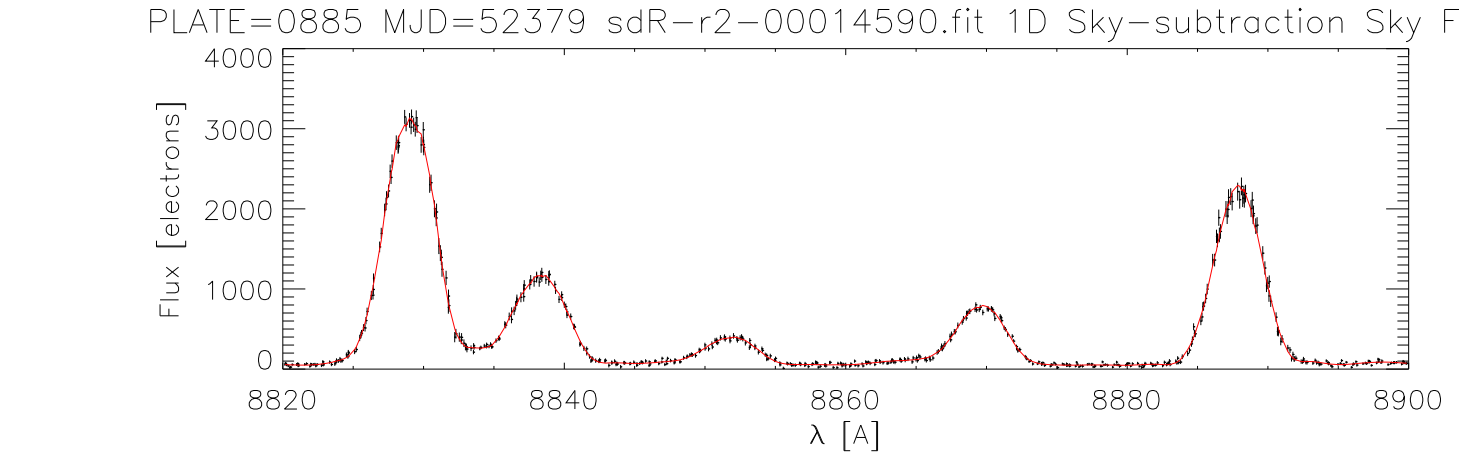

6300.3040
stdev 0.012
extra 0.13
6363.7760
stdev 0.023
extra 0.15
6553.6100
stdev 0.061
extra 0.16
6923.2100
stdev 0.028
extra 0.14
6949.0300
stdev 0.039
extra 0.18
7571.7500
stdev 0.043
extra 0.16
7794.1200
stdev 0.025
extra 0.04
7821.5100
stdev 0.023
extra 0.09
8399.1600
stdev 0.019
extra 0.11
8430.1700
stdev 0.024
extra 0.09
8885.8300
stdev 0.038
extra 0.10
8919.6100
stdev 0.021
extra 0.09
meas − pred, pix

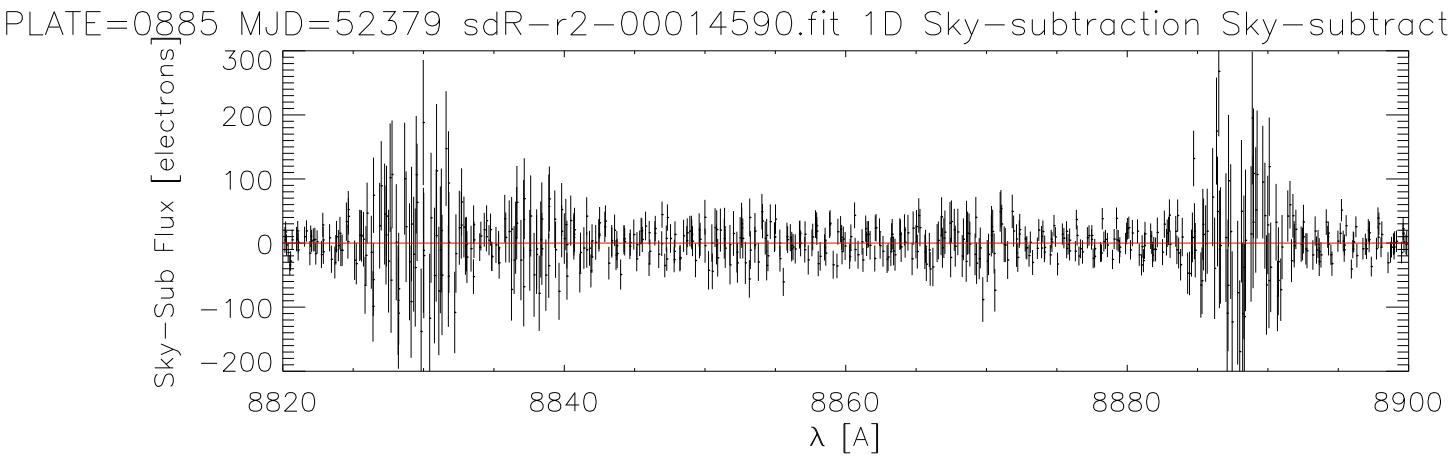

sky shift, pixels
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

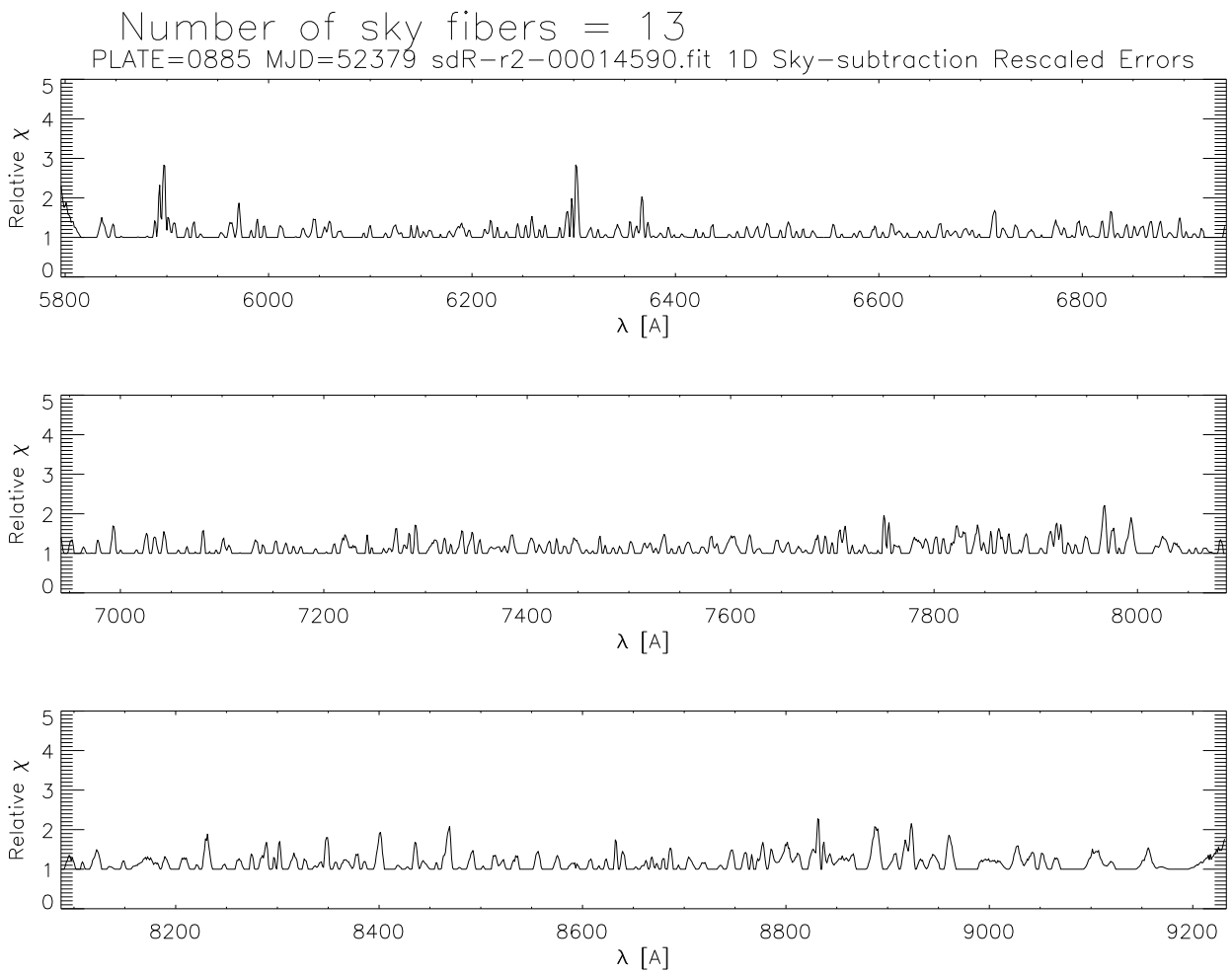
es= −0.0000

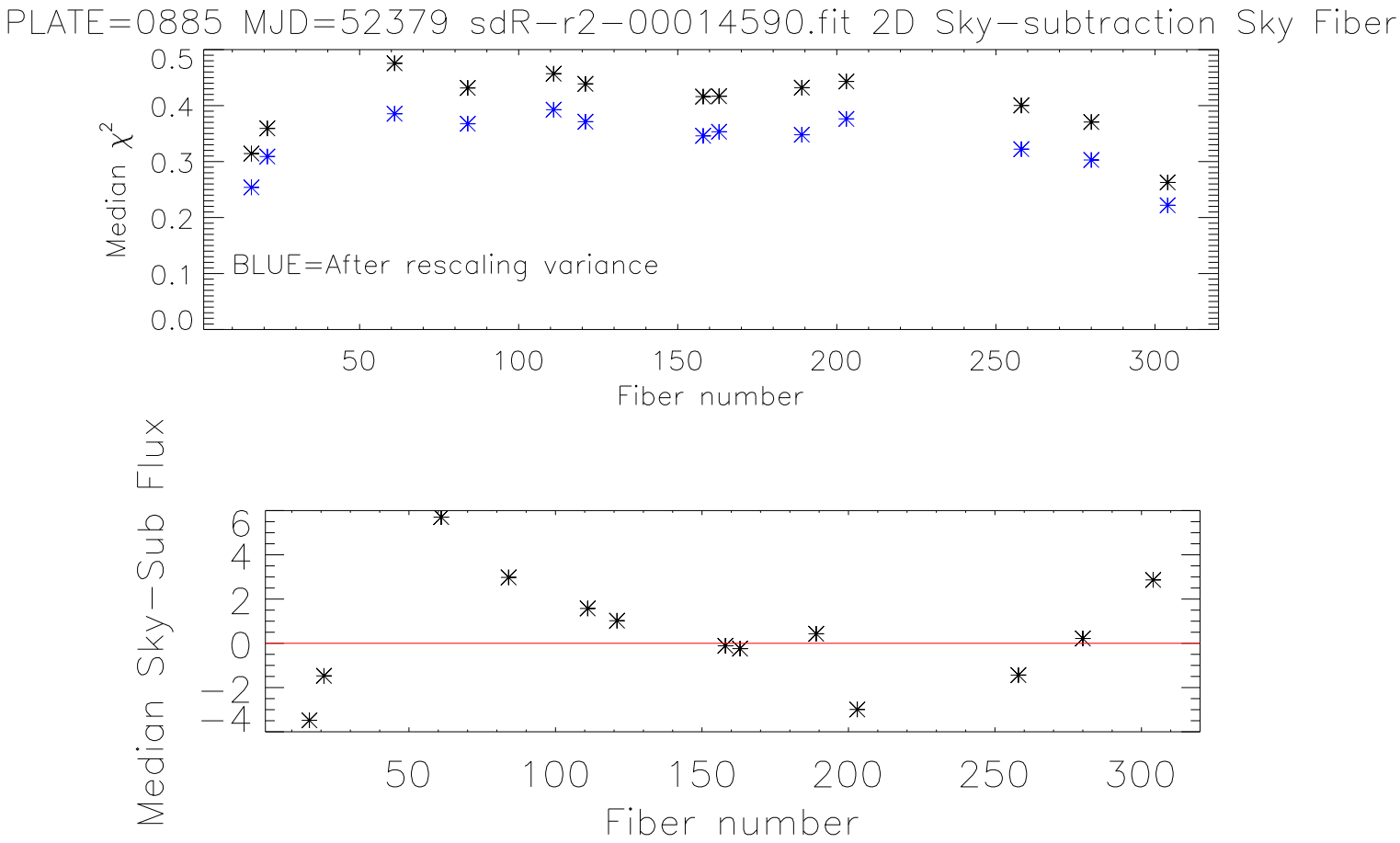

PLATE=0885 MJD=52379 Smooth superflat for sdR−r2−00014590.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

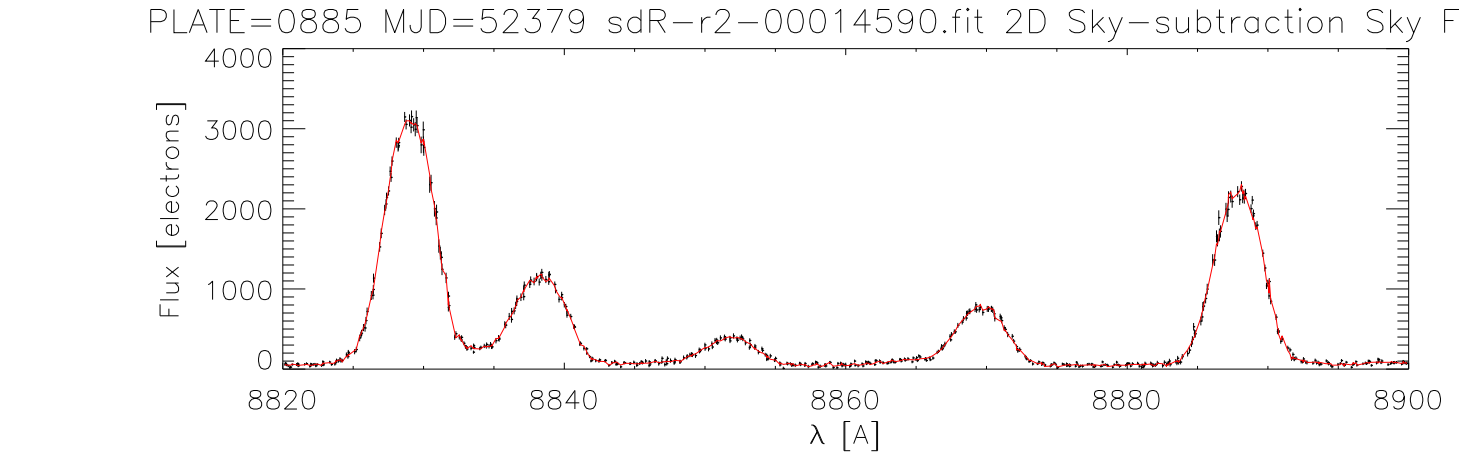

PLATE=0885 MJD=52379 sdR-r2-00014590.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

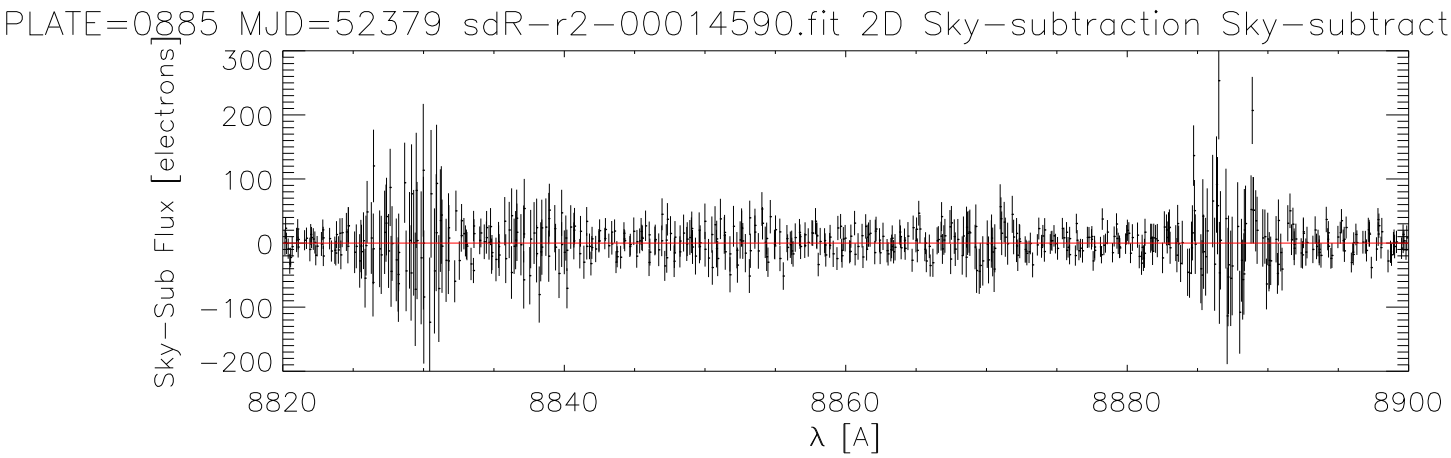

PLATE=0885 MJD=52379 sdR-r2-00014590.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

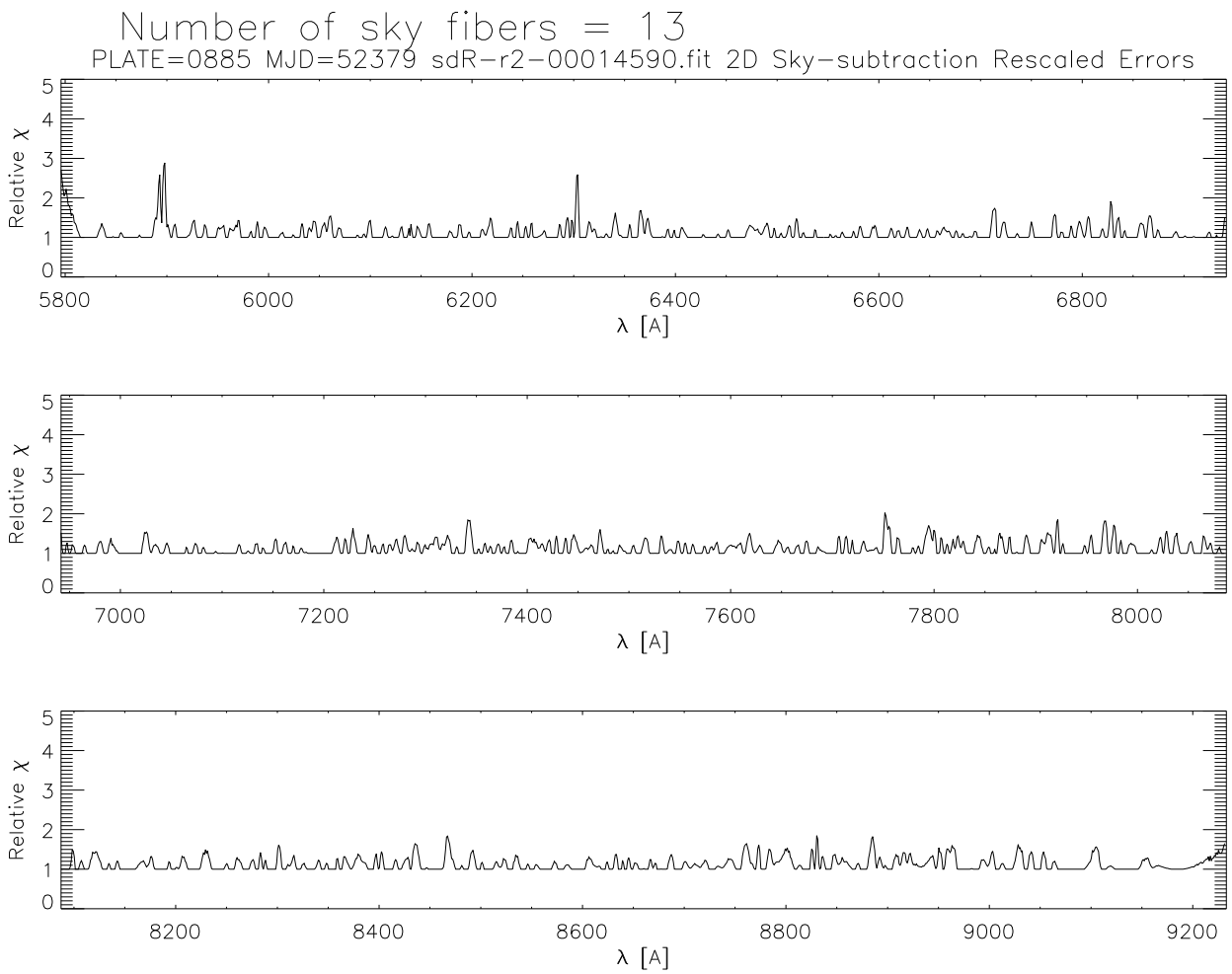

PLATE=0885 MJD=52379 sdR-r2-00014590.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

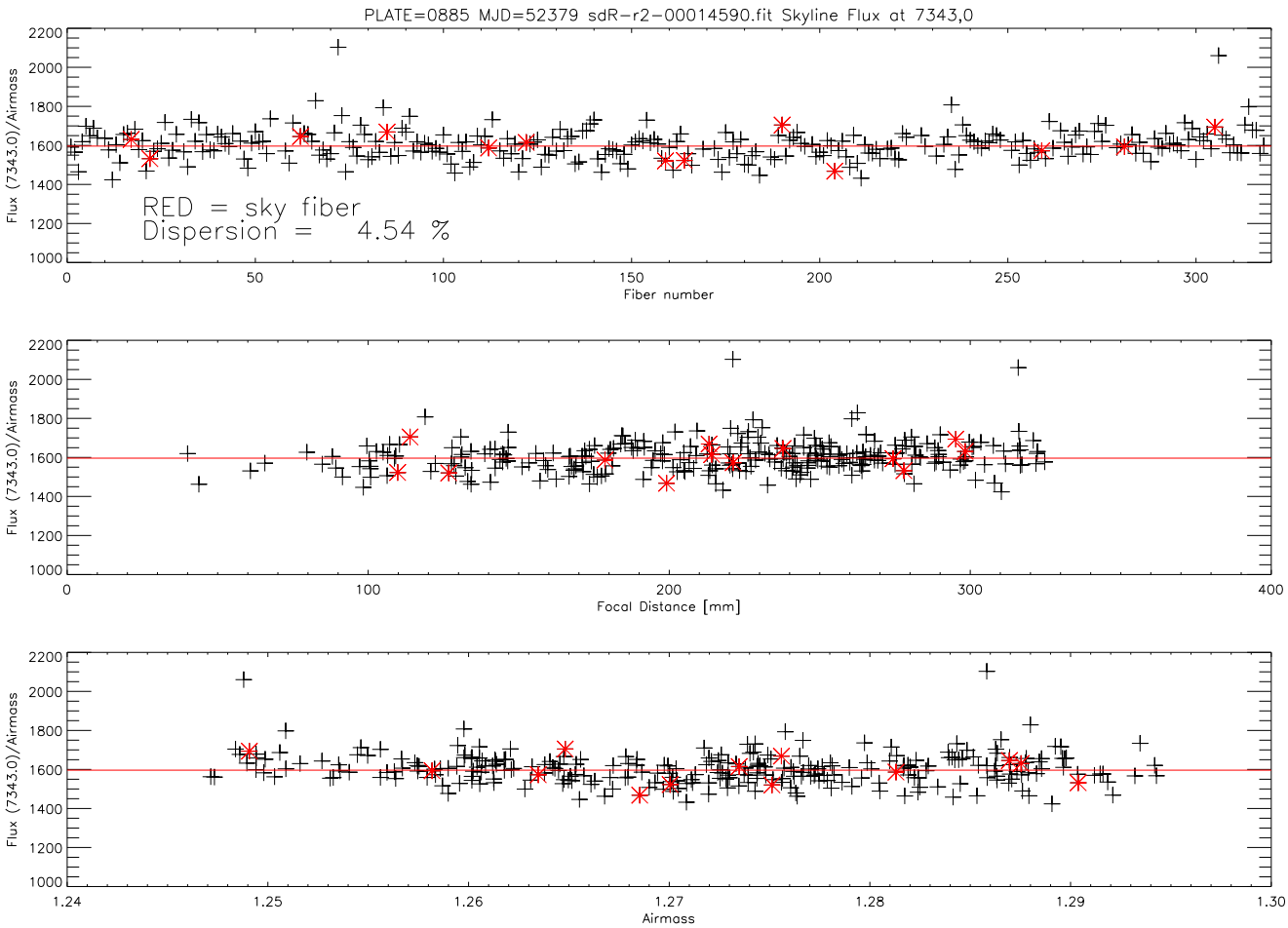

Number of sky fibers = 13
PLATE=0885 MJD=52379 sdR-r2-00014590.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

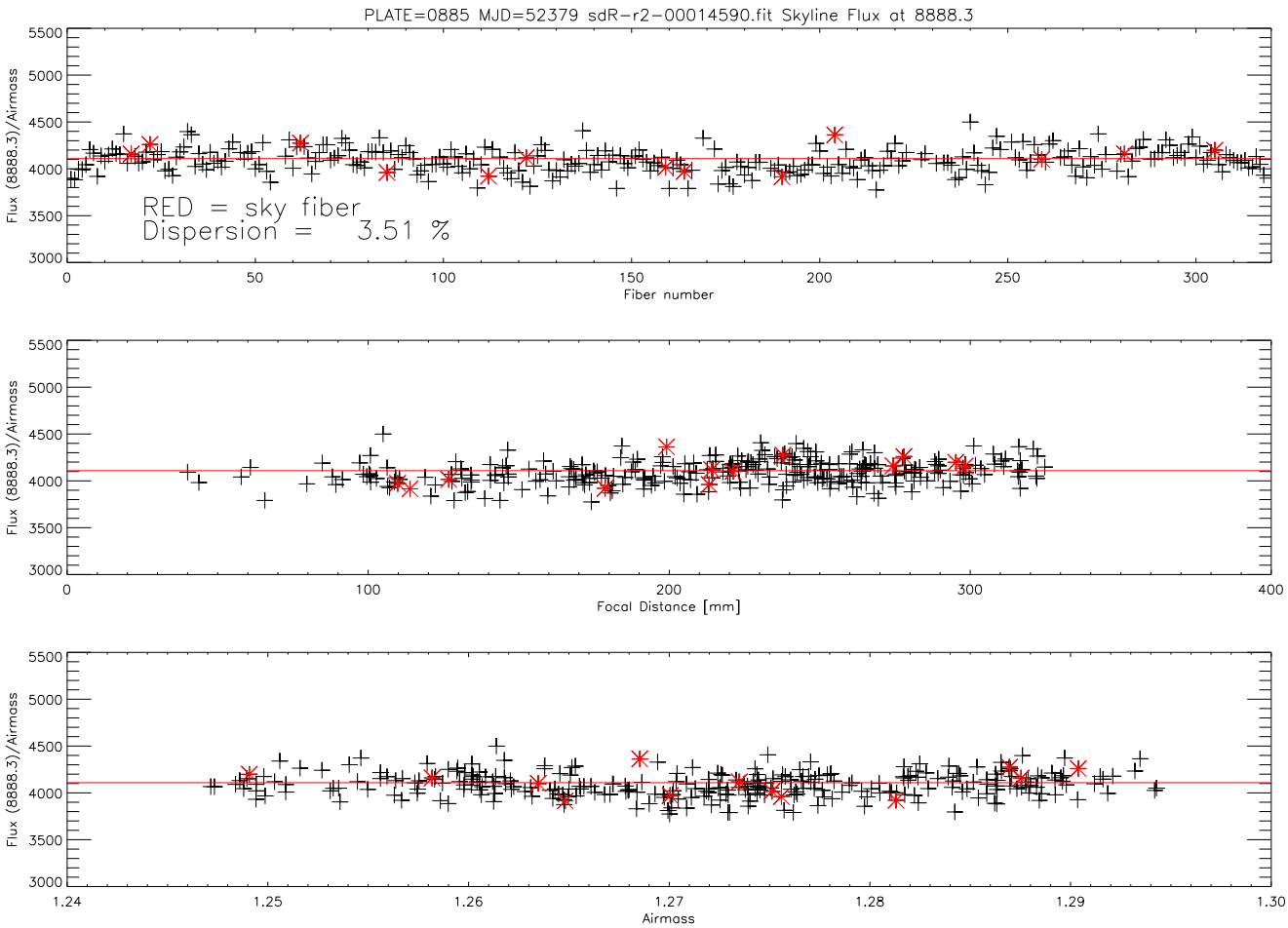

PLATE=0885 MJD=52379 sdR-r2-00014590.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

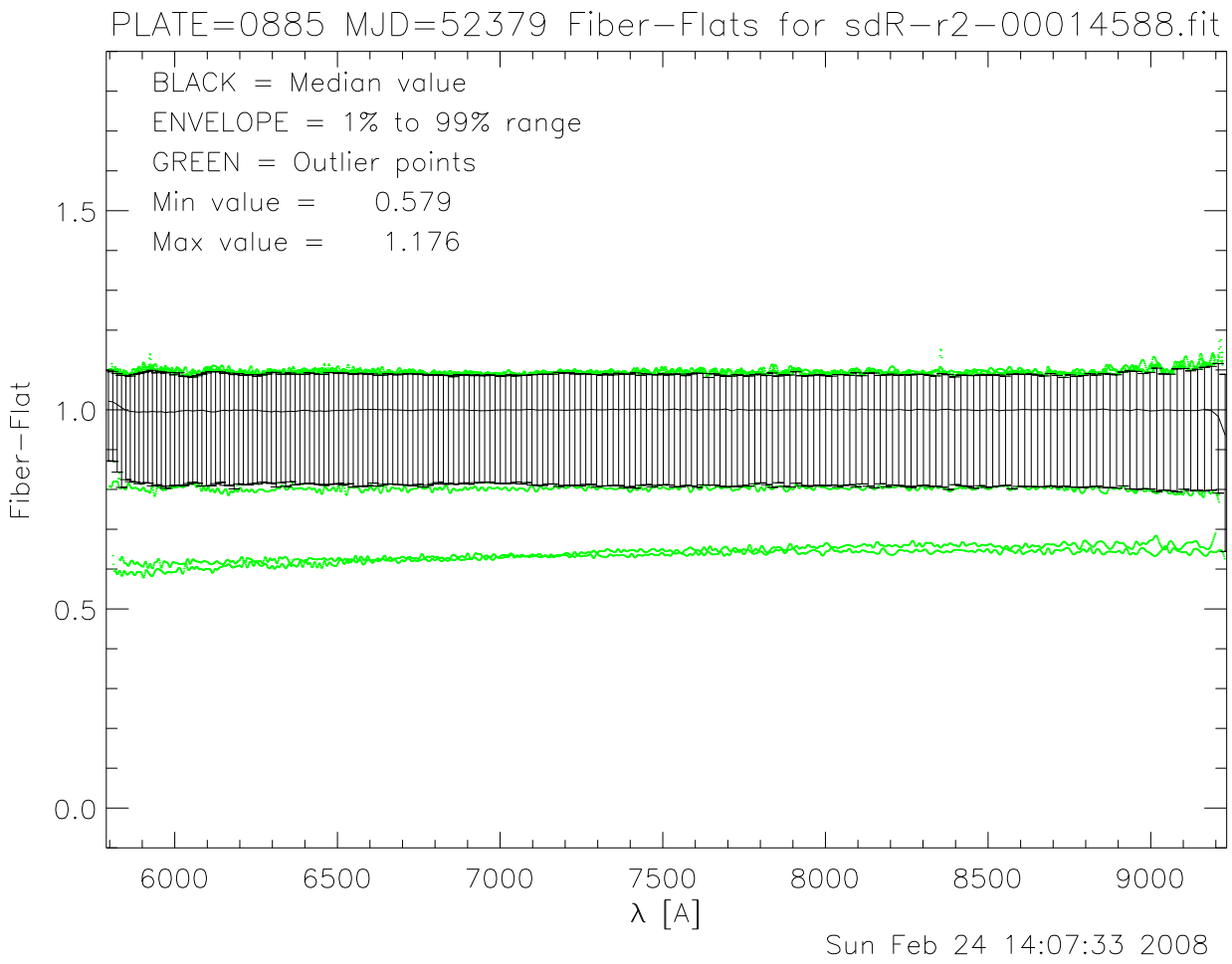

PLATE=0885 MJD=52379 sdR-r2-00014590.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

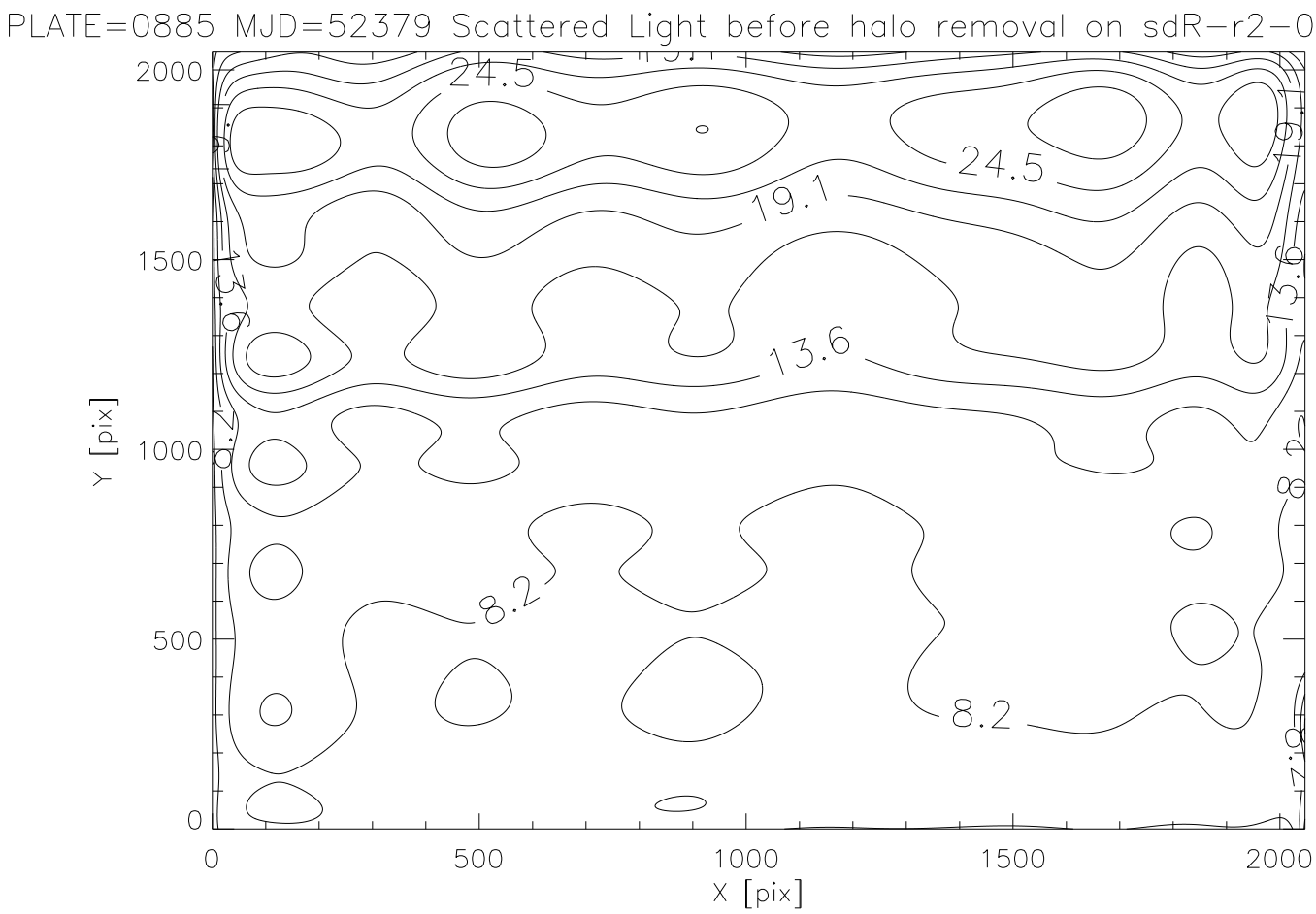

PLATE=0885 MJD=52379 sdR-r2-00014590.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

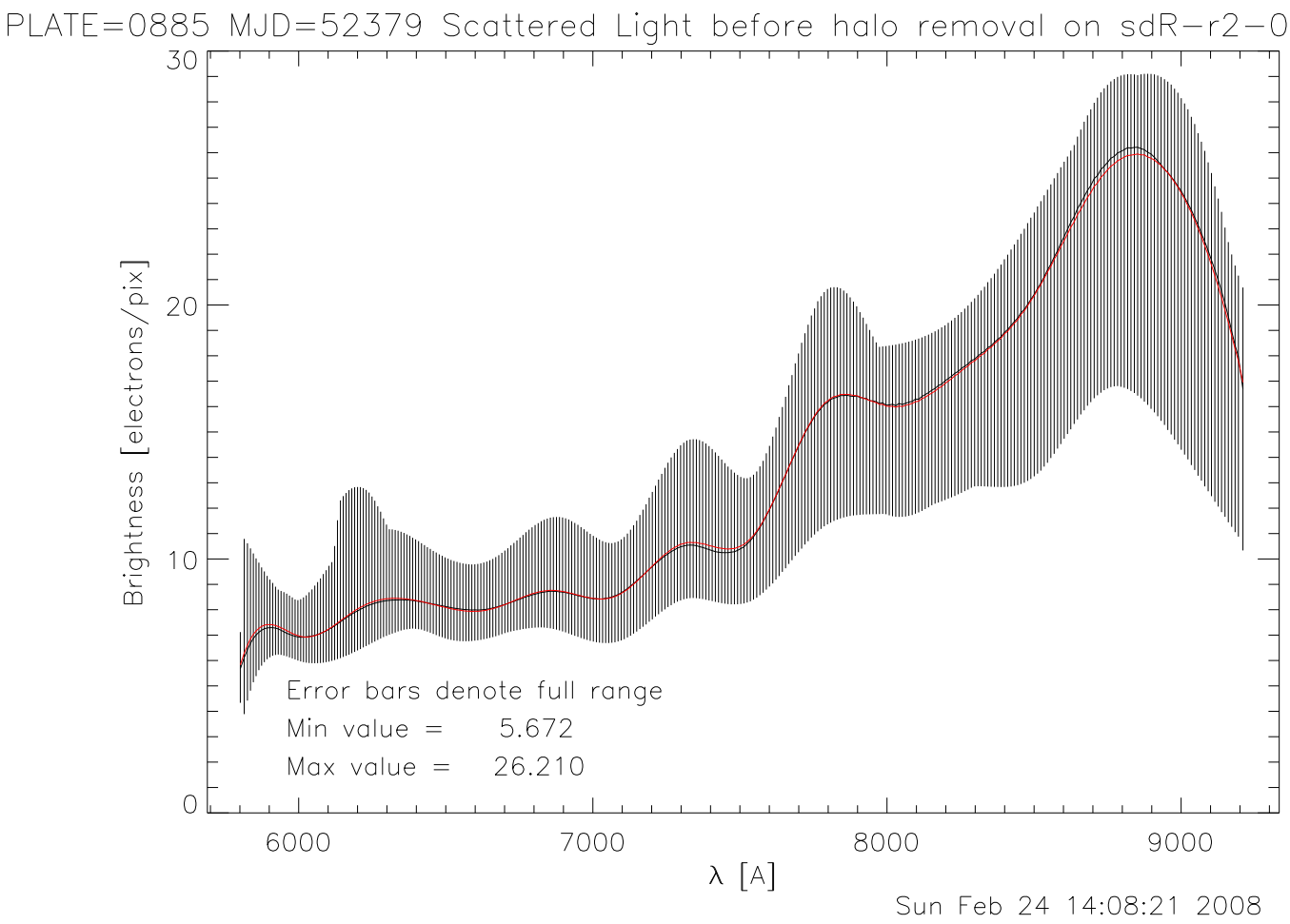

Number of sky fibers = 13
PLATE=0885 MJD=52379 sdR-r2-00014590.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

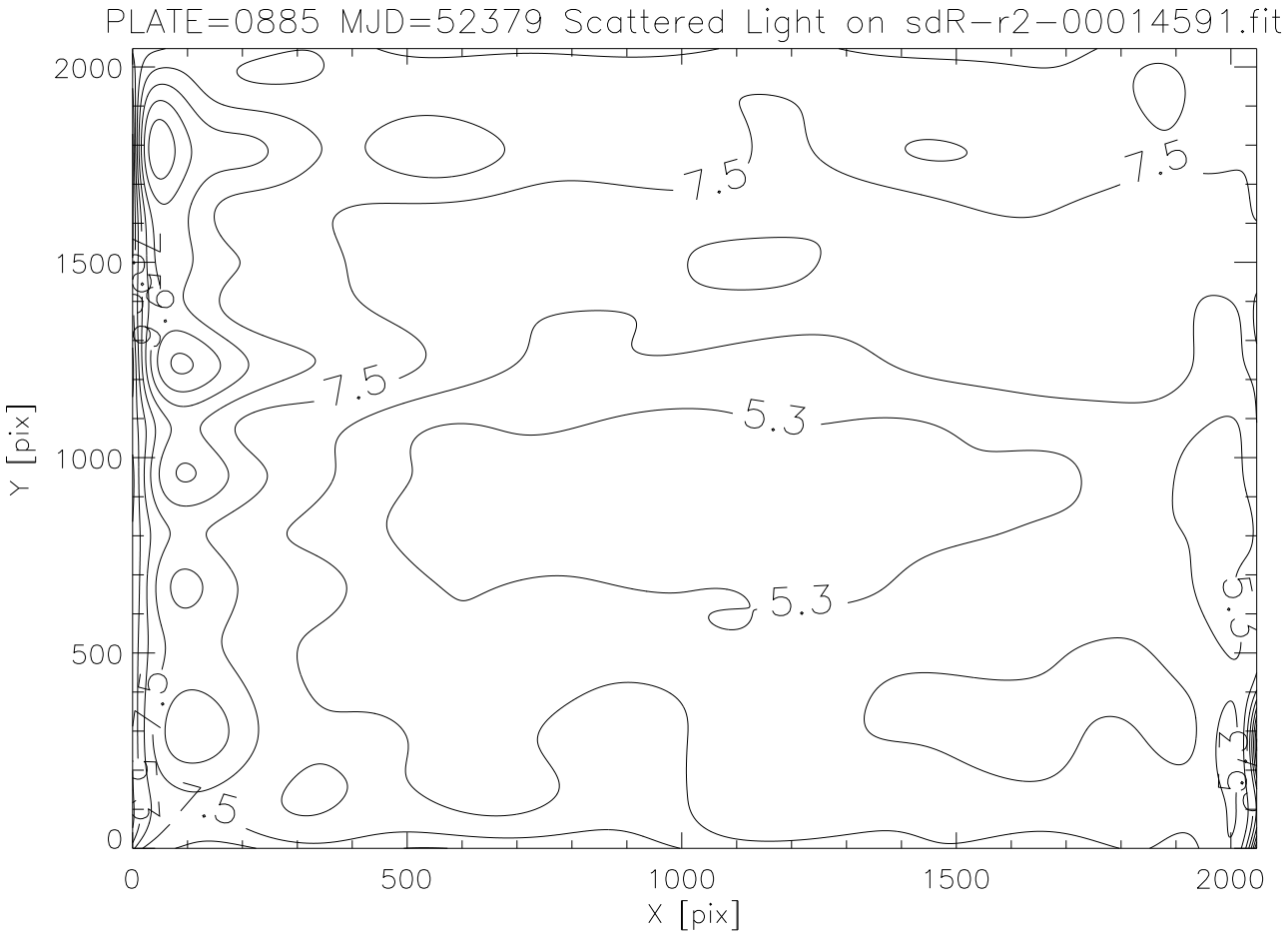

PLATE=0885 MJD=52379 sdR-r2-00014590.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.54 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

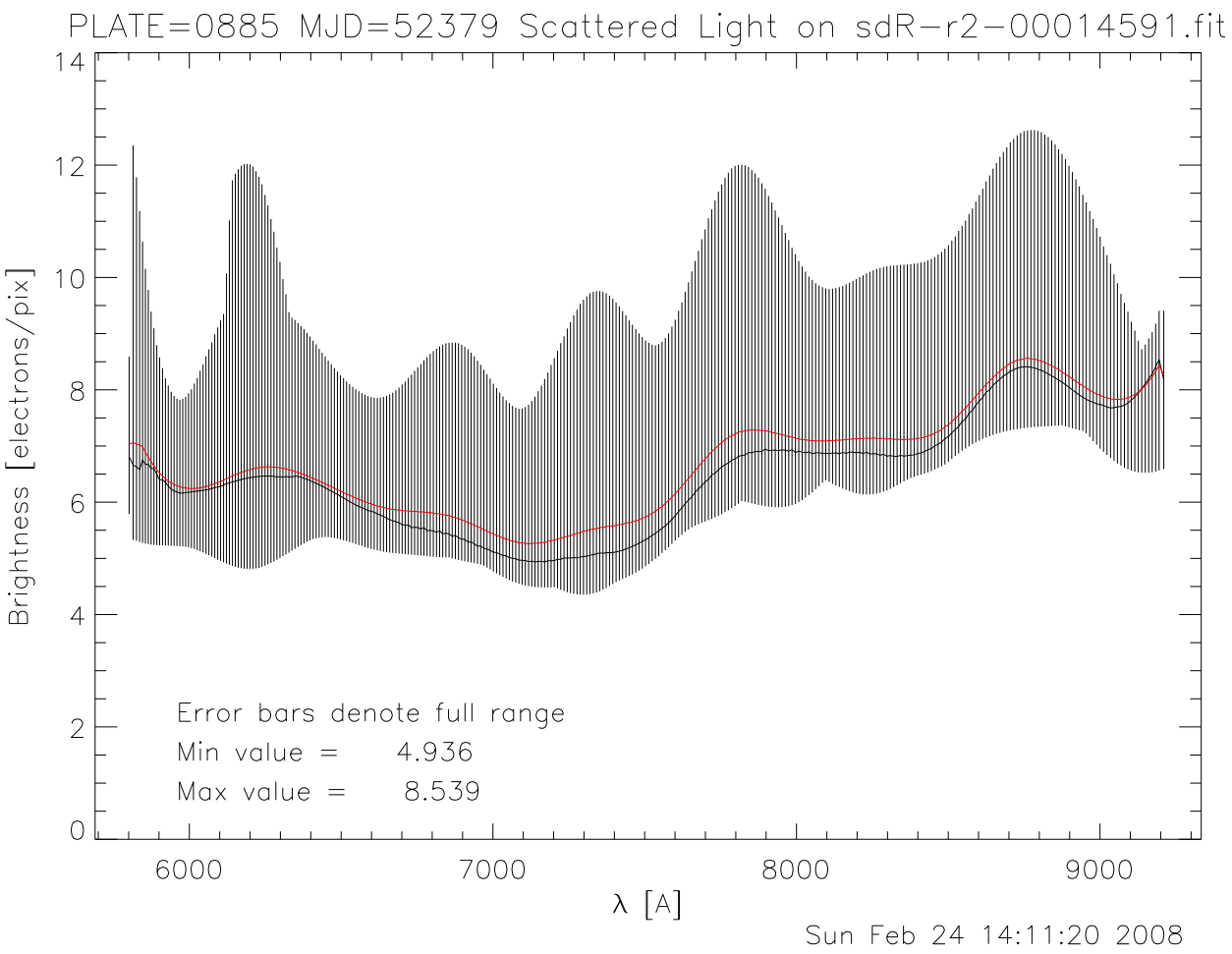

PLATE=0885 MJD=52379 sdR-r2-00014590.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.51 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

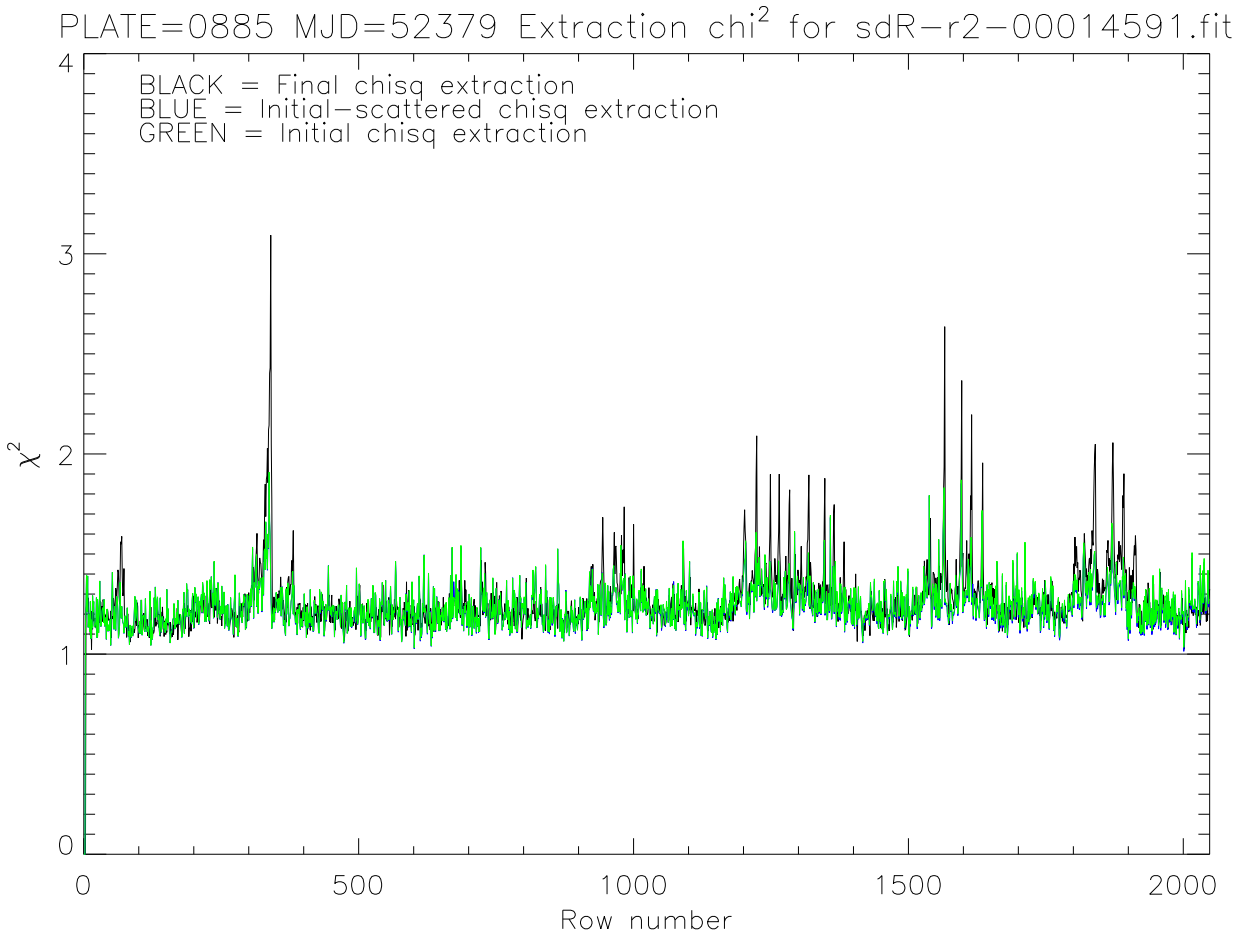

PLATE=0885 MJD=52379 Fiber−Flats for sdR−r2−00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.579
Max value = 1.176
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 24 14:07:33 2008

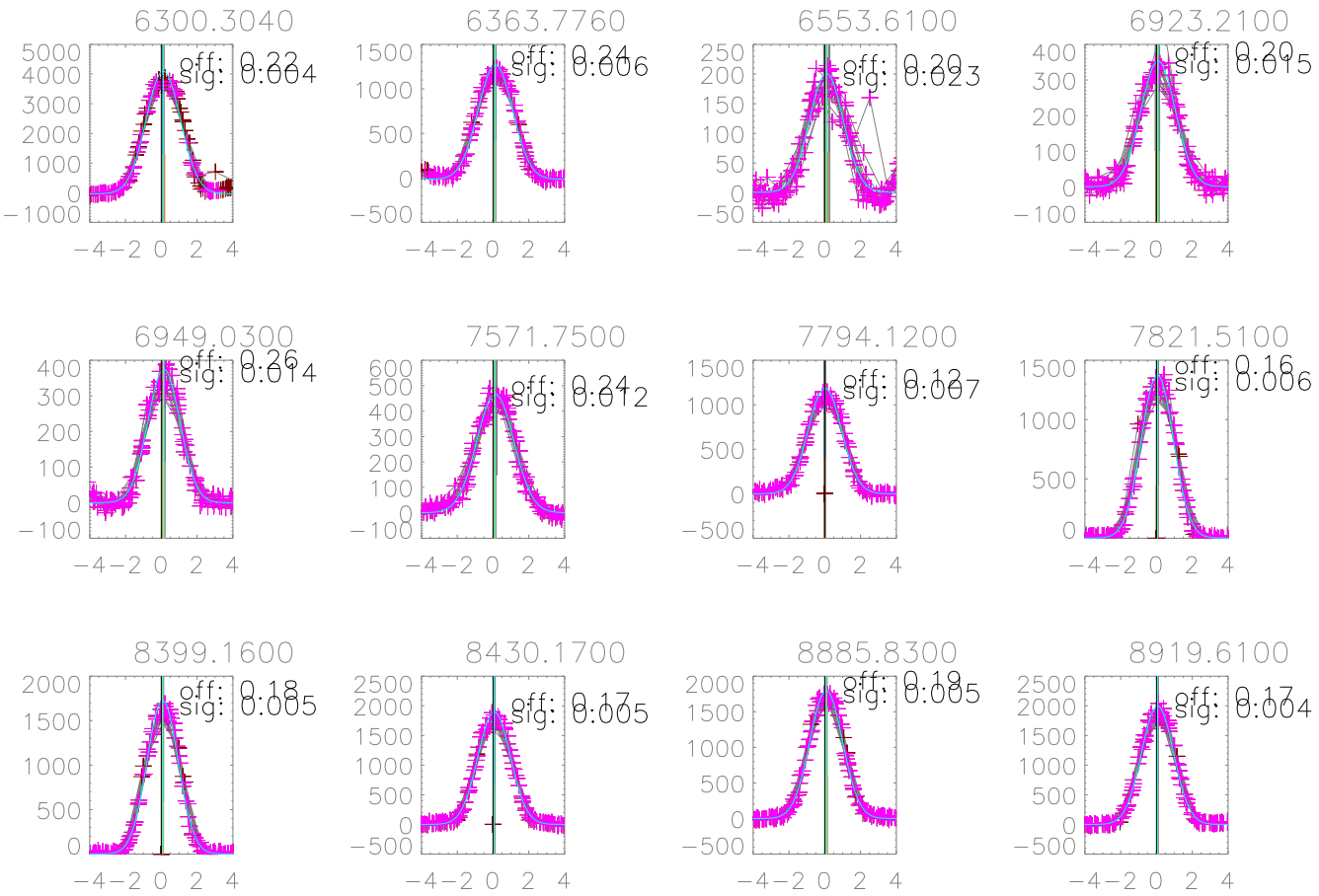

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r2-00014591.fi
24.5
19.1
13.6
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

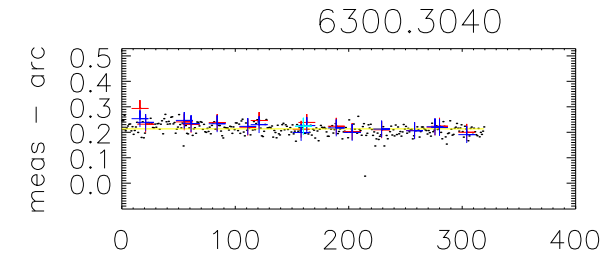

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r2-00014591.fi
Brightness [electrons/pix]
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.672
Max value = 26.210
Sun Feb 24 14:08:21 2008

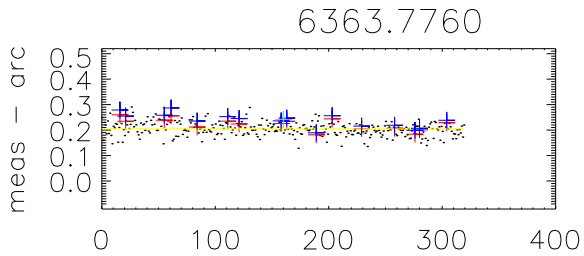

PLATE=0885 MJD=52379 Scattered Light on sdR-r2-00014591.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.5
5.3

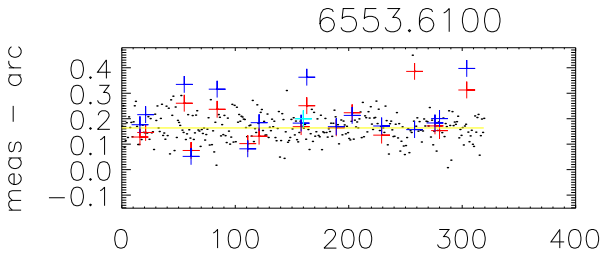

PLATE=0885 MJD=52379 Scattered Light on sdR-r2-00014591.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.936
Max value = 8.539
Sun Feb 24 14:11:20 2008

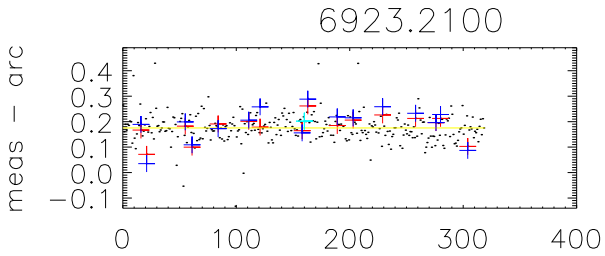

PLATE=0885 MJD=52379 Extraction chi^2 for sdR-r2-00014591.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

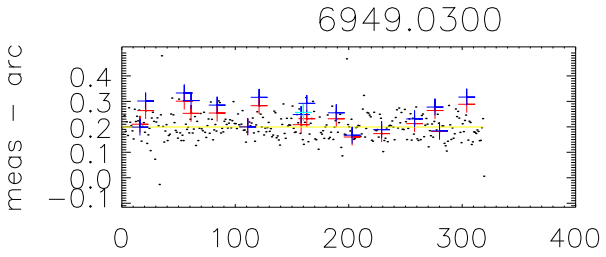

6300.3040
off: 0.22
sig: 0.004
6363.7760
off: 0.24
sig: 0.006
6553.6100
off: 0.20
sig: 0.023
6923.2100
off: 0.20
sig: 0.015
6949.0300
off: 0.26
sig: 0.014
7571.7500
off: 0.24
sig: 0.012
7794.1200
off: 0.12
sig: 0.007
7821.5100
off: 0.16
sig: 0.006
8399.1600
off: 0.18
sig: 0.005
8430.1700
off: 0.17
sig: 0.005
8885.8300
off: 0.19
sig: 0.005
8919.6100
off: 0.17
sig: 0.004

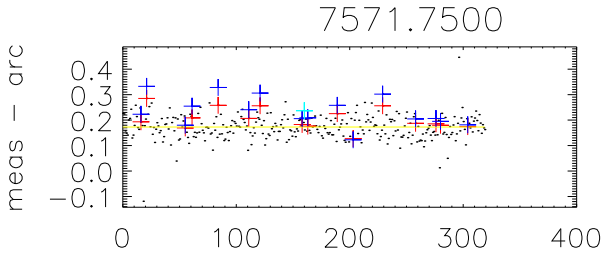

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

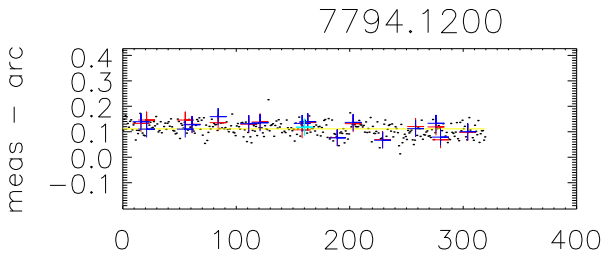

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

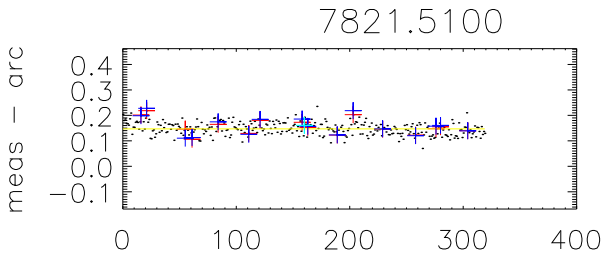

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

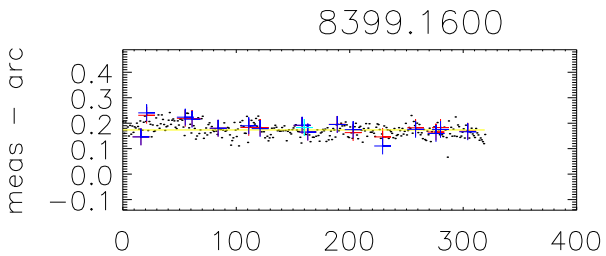

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

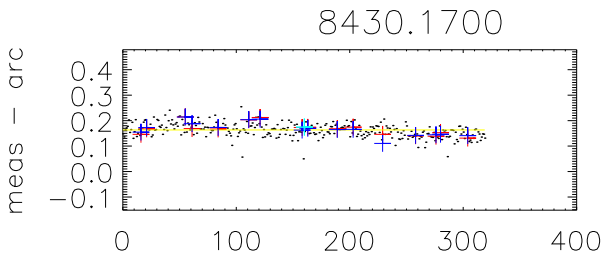

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

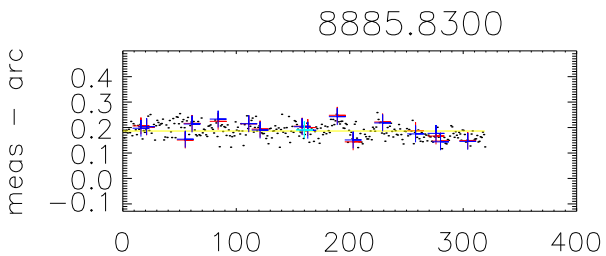

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

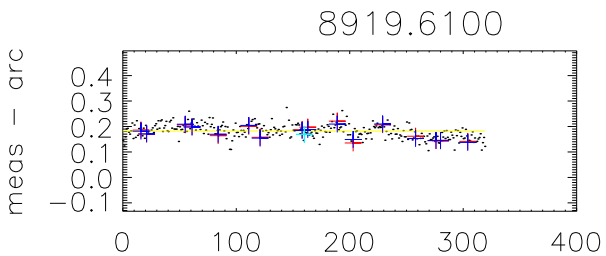

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

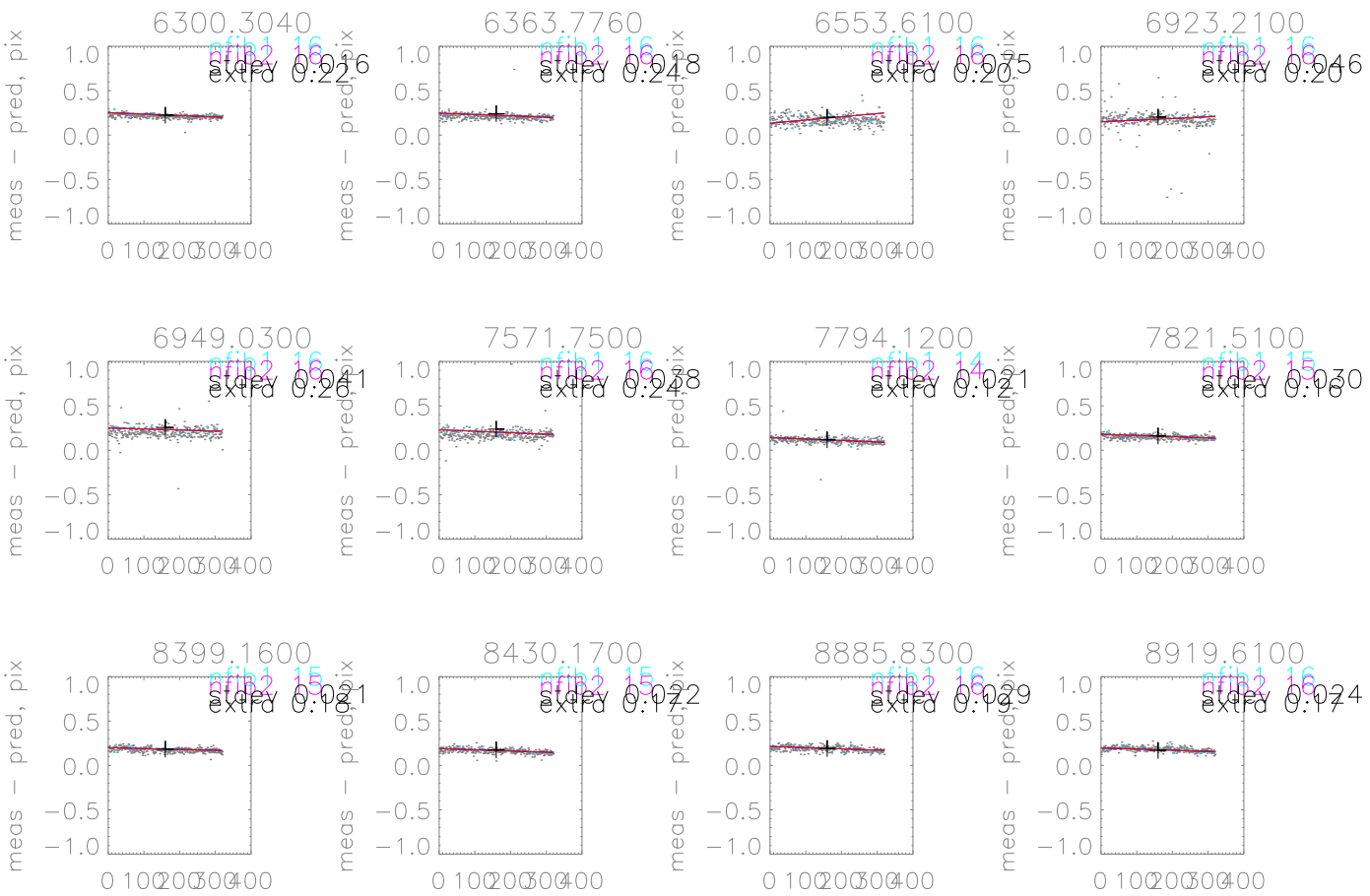

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

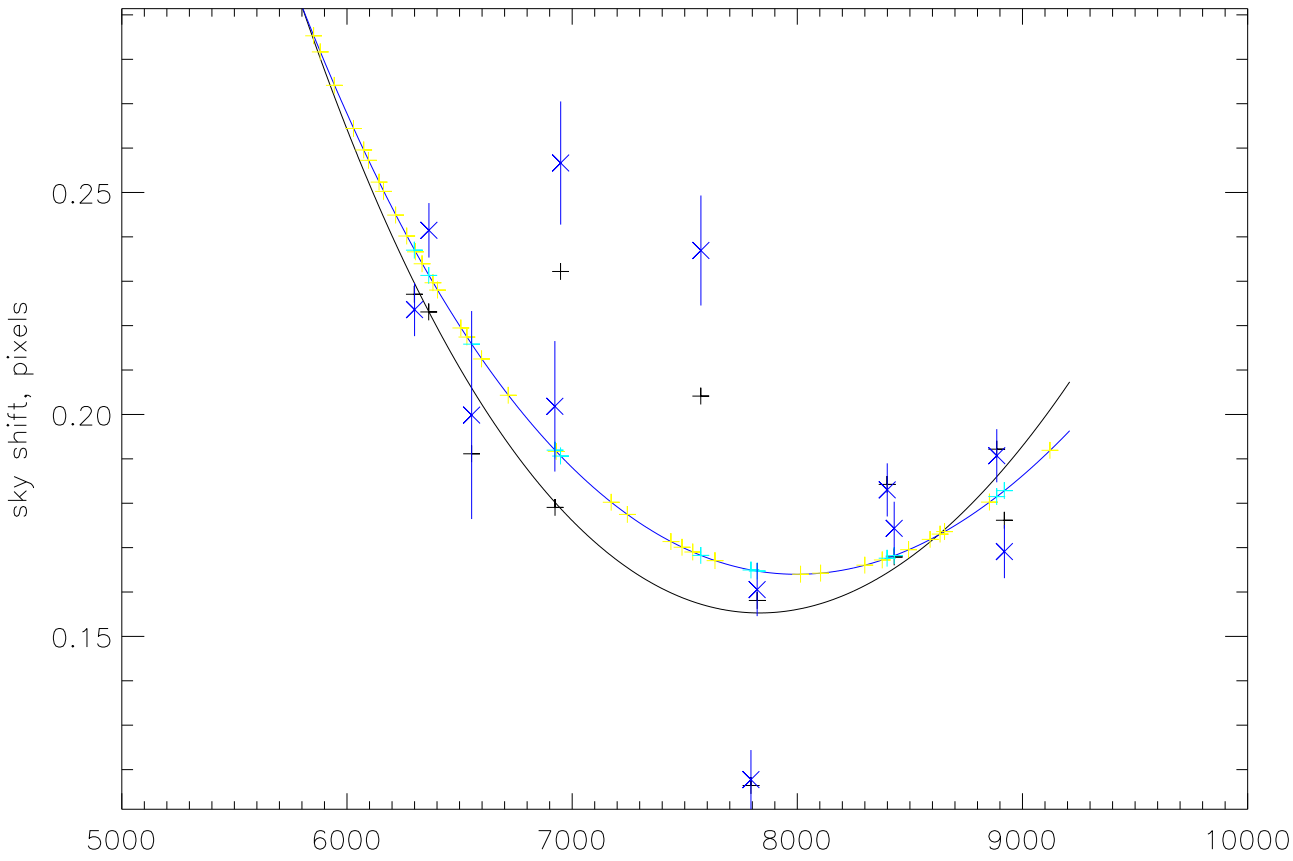

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

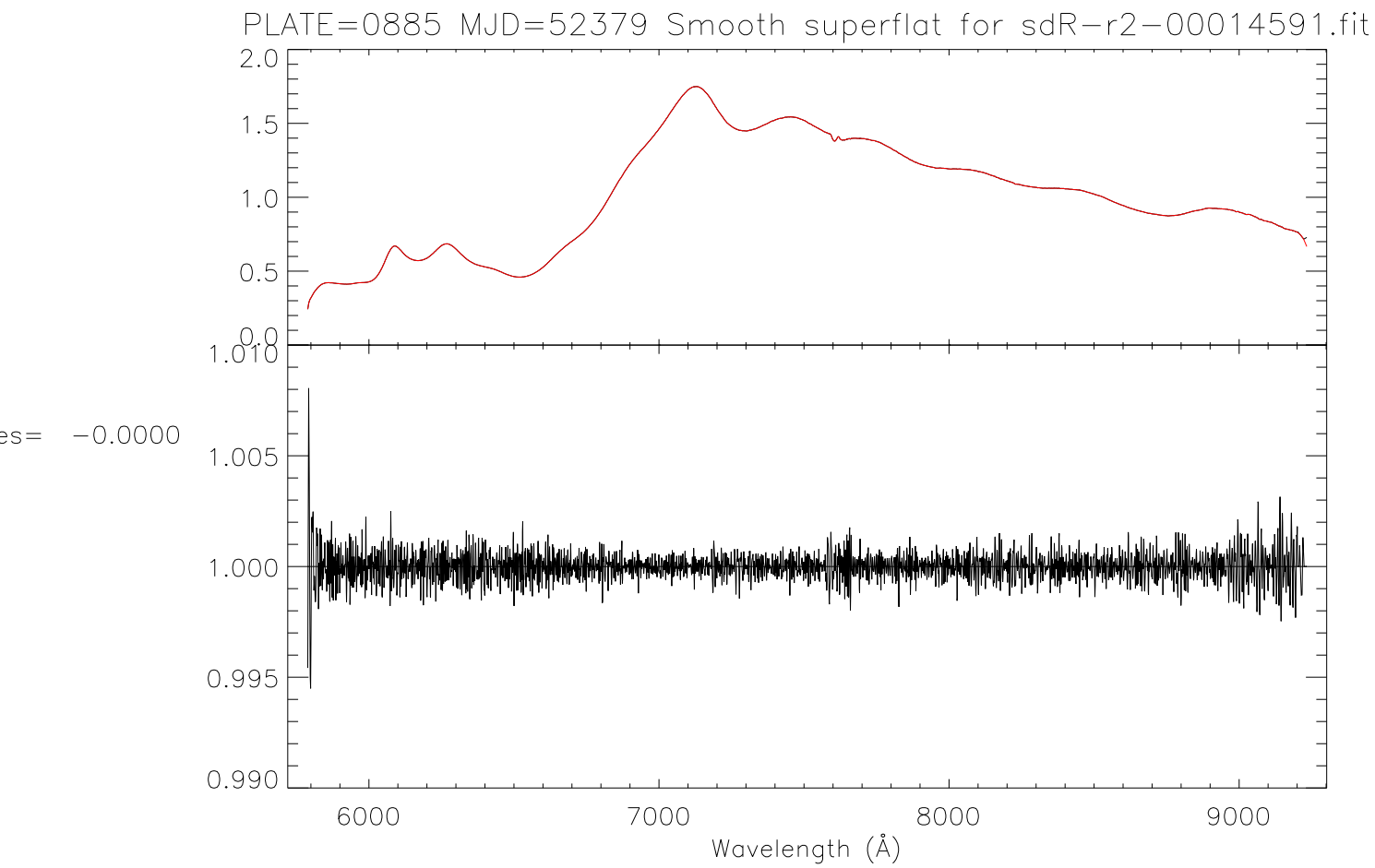

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

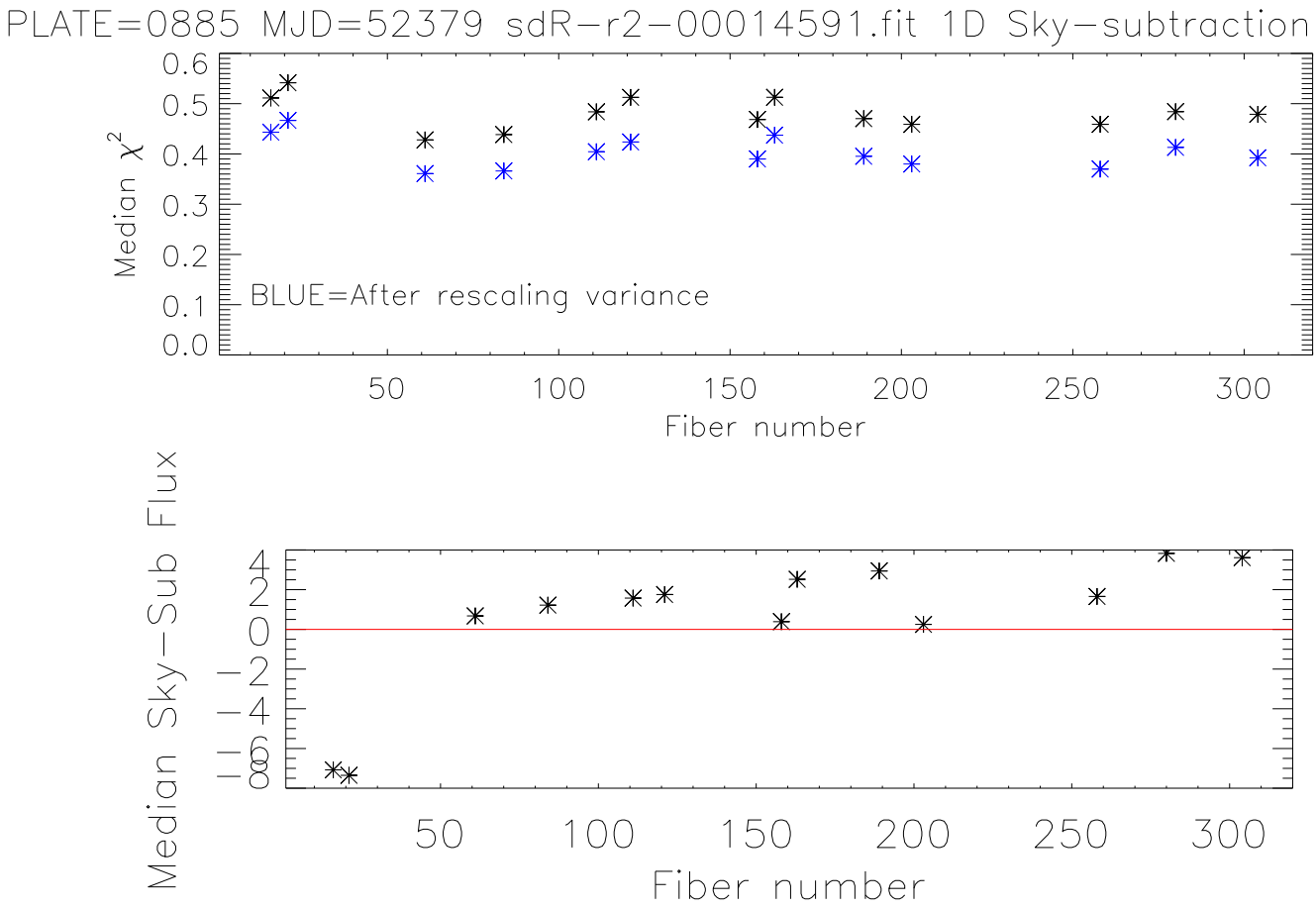

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

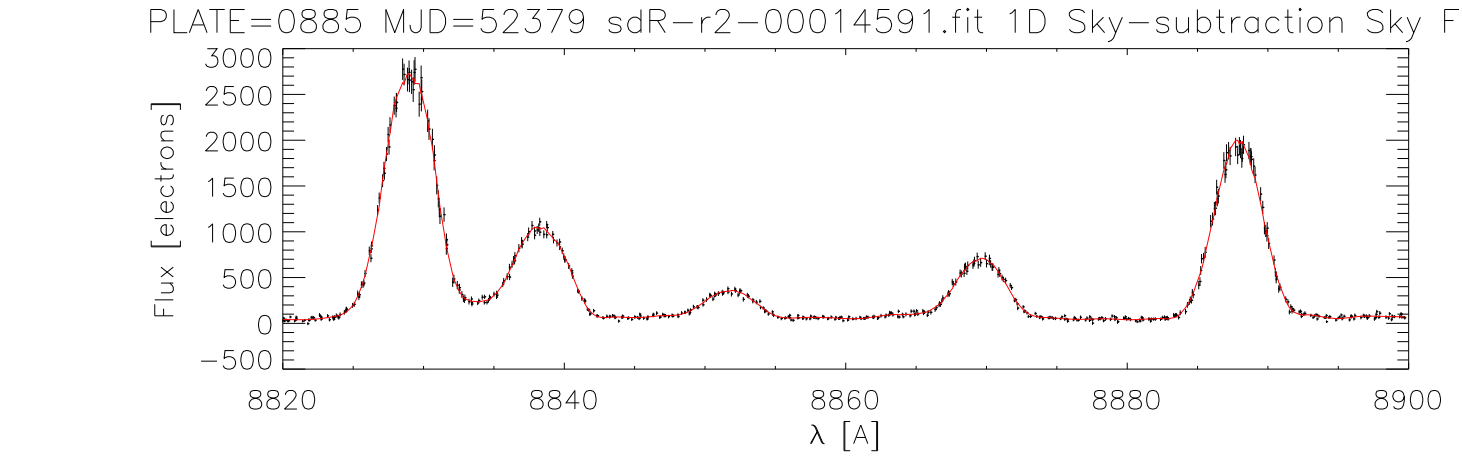

6300.3040
mfib1 16
mfib2 16
stdev 0.016
extra 0.22
6363.7760
mfib1 16
mfib2 16
stdev 0.018
extra 0.24
6553.6100
mfib1 16
mfib2 16
stdev 0.075
extra 0.20
6923.2100
mfib1 16
mfib2 16
stdev 0.046
extra 0.20
6949.0300
mfib1 16
mfib2 16
stdev 0.041
extra 0.26
7571.7500
mfib1 16
mfib2 16
stdev 0.038
extra 0.24
7794.1200
mfib1 14
mfib2 16
stdev 0.021
extra 0.12
7821.5100
mfib1 15
mfib2 16
stdev 0.030
extra 0.16
8399.1600
mfib1 15
mfib2 16
stdev 0.021
extra 0.18
8430.1700
mfib1 15
mfib2 16
stdev 0.022
extra 0.17
8885.8300
mfib1 16
mfib2 16
stdev 0.029
extra 0.19
8919.6100
mfib1 16
mfib2 16
stdev 0.024
extra 0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

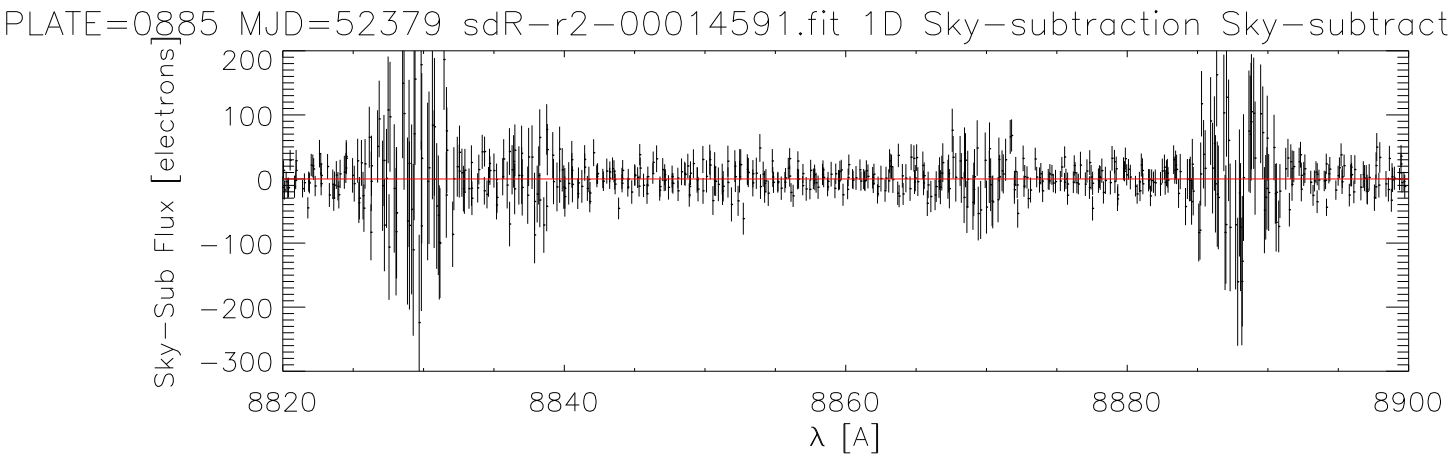

sky shift, pixels
0.25
0.20
0.15
5000
6000
7000
8000
9000
10000

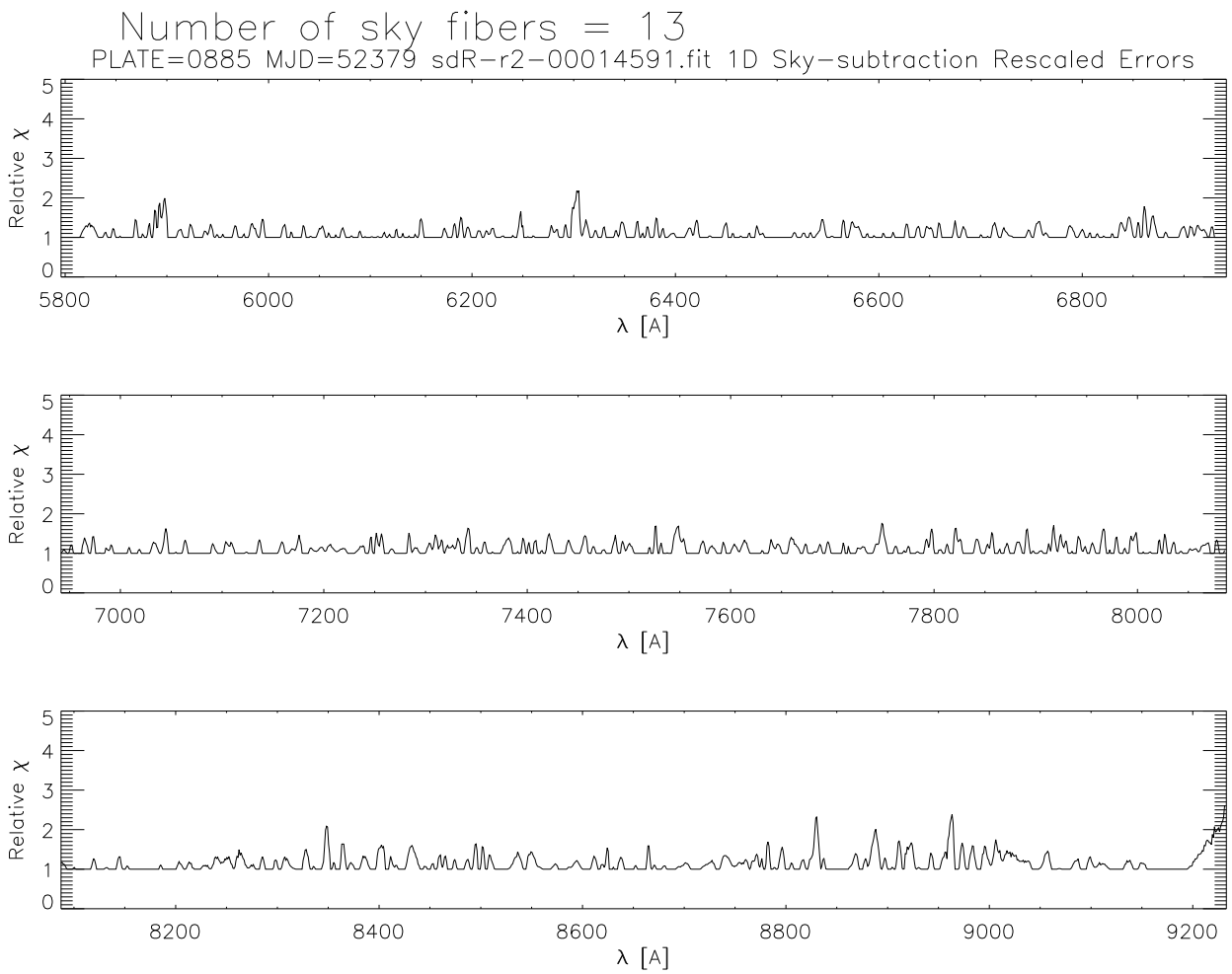

PLATE=0885 MJD=52379 Smooth superflat for sdR-r2-00014591.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

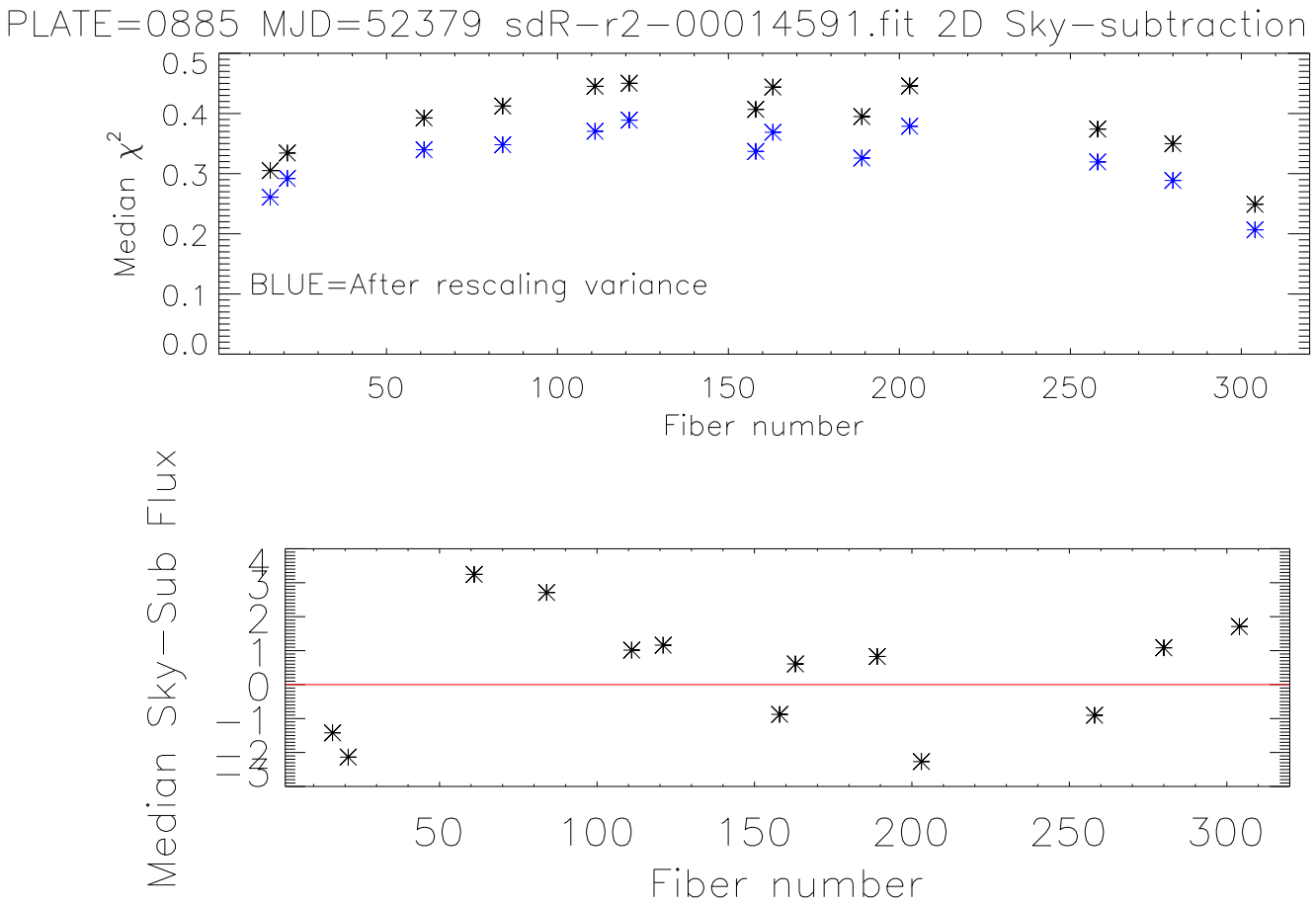
es= −0.0000

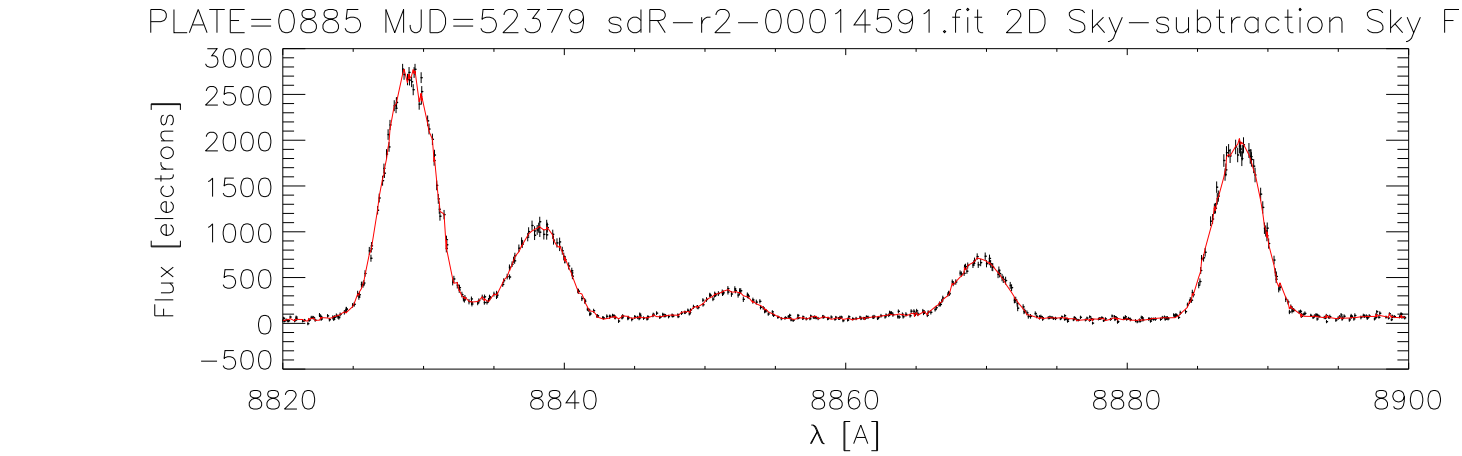

PLATE=0885 MJD=52379 sdR-r2-00014591.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.6e-06
-1.4e-06
-1.2e-06
-1e-06
-8e-07
50
100
150
200
250
300
Fiber number

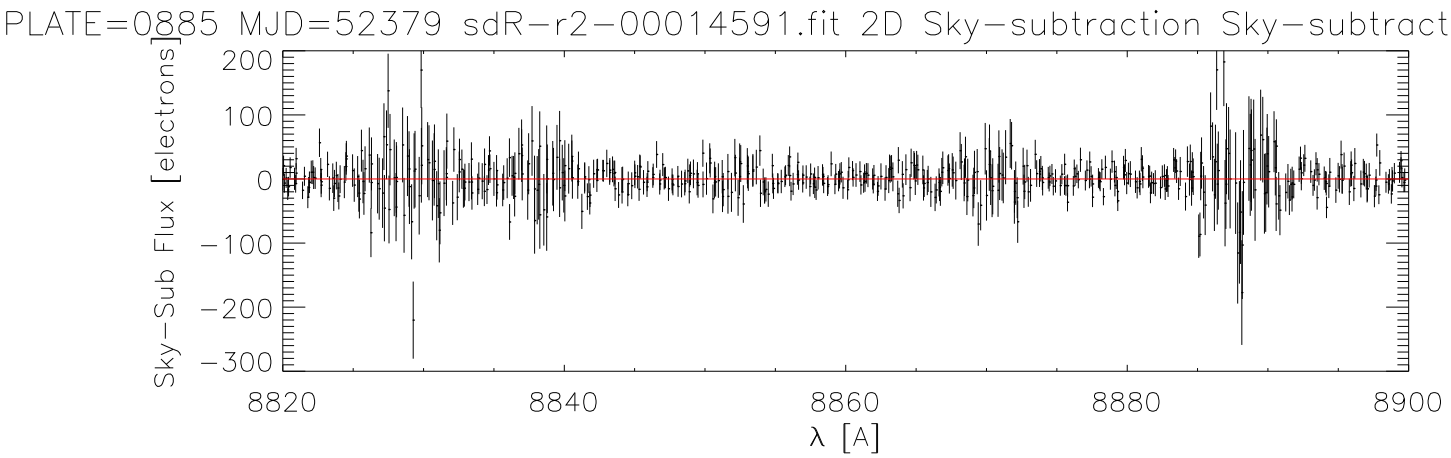

PLATE=0885 MJD=52379 sdR-r2-00014591.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

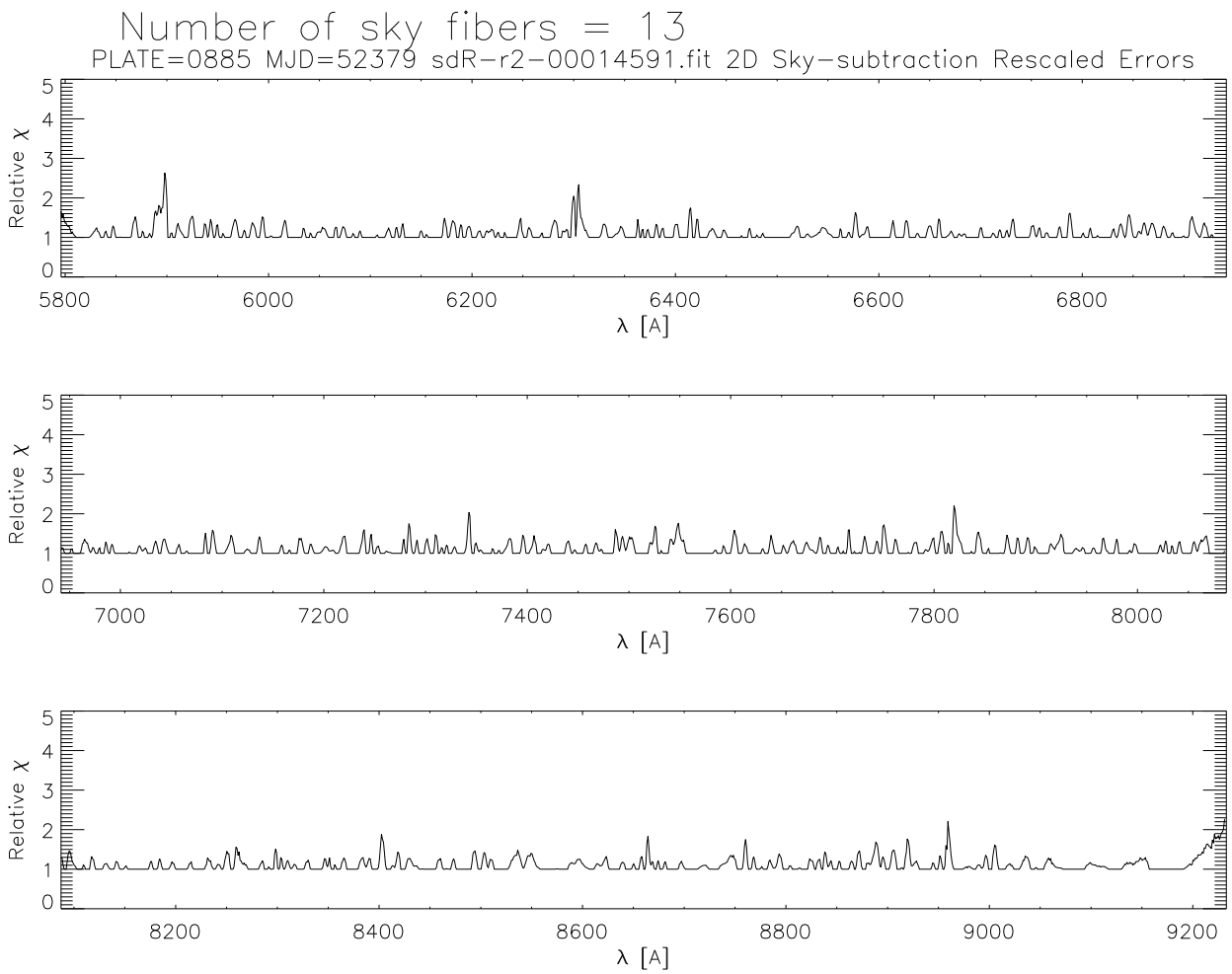

PLATE=0885 MJD=52379 sdR-r2-00014591.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

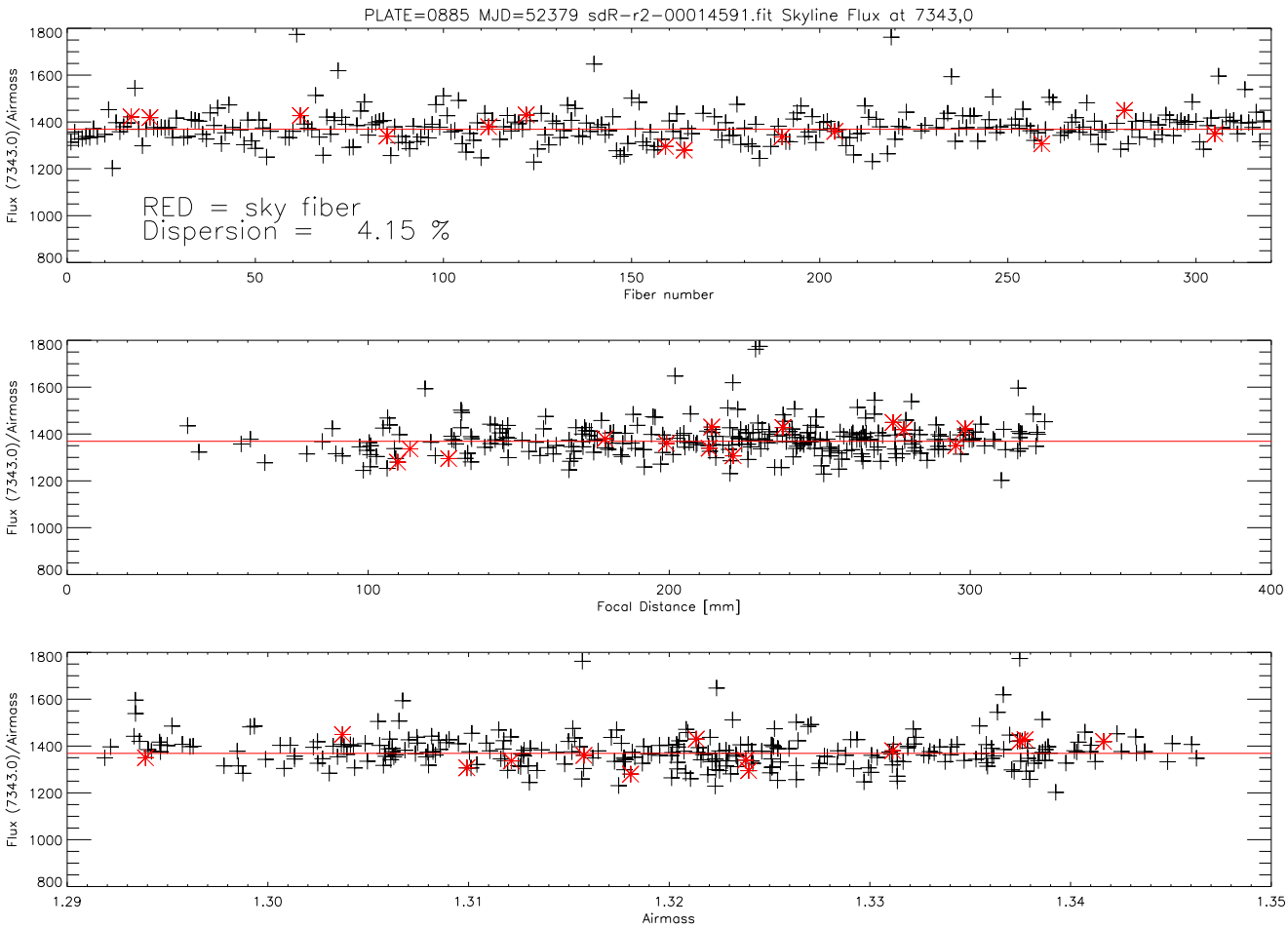

Number of sky fibers = 13
PLATE=0885 MJD=52379 sdR-r2-00014591.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

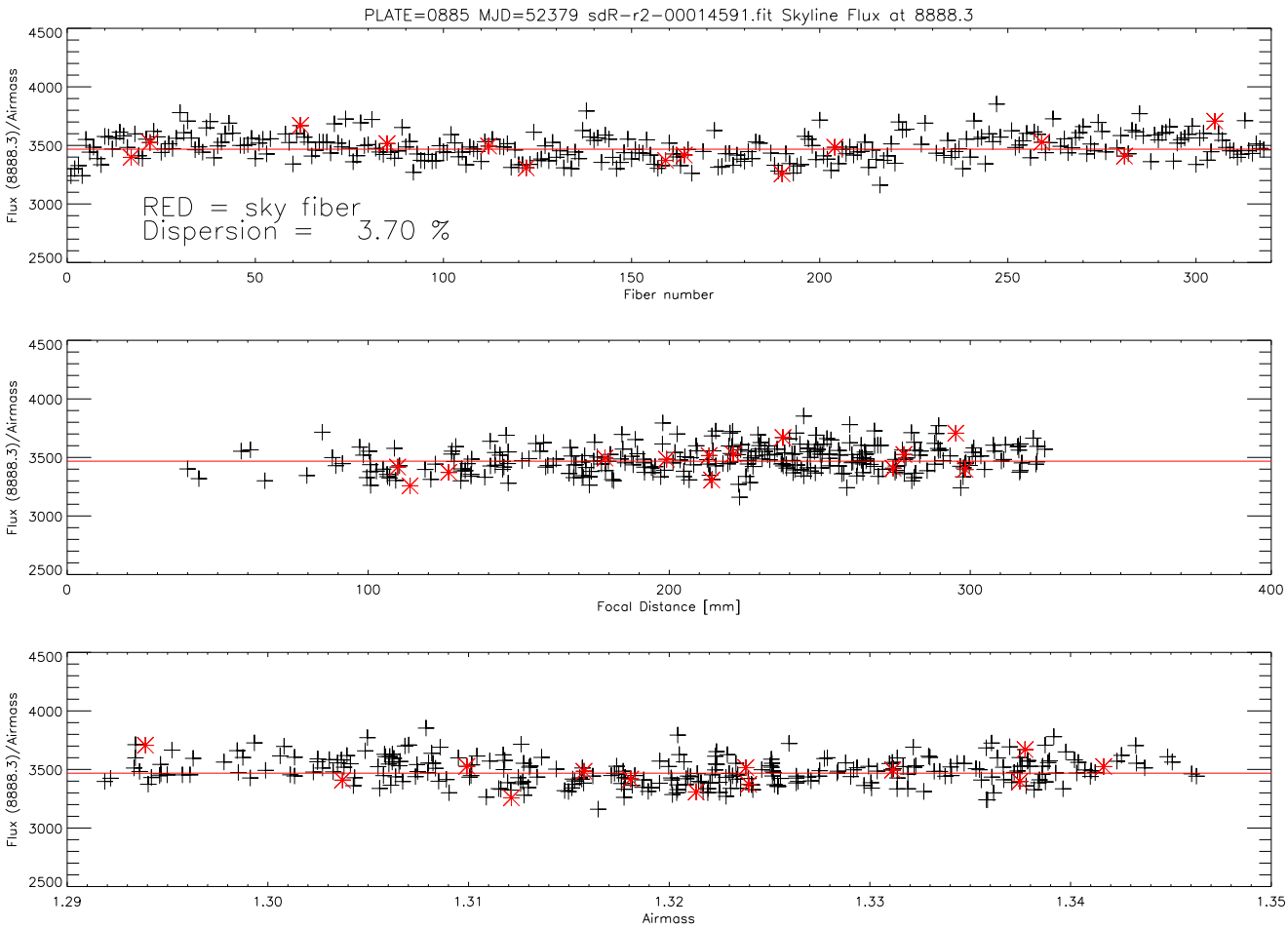

PLATE=0885 MJD=52379 sdR-r2-00014591.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

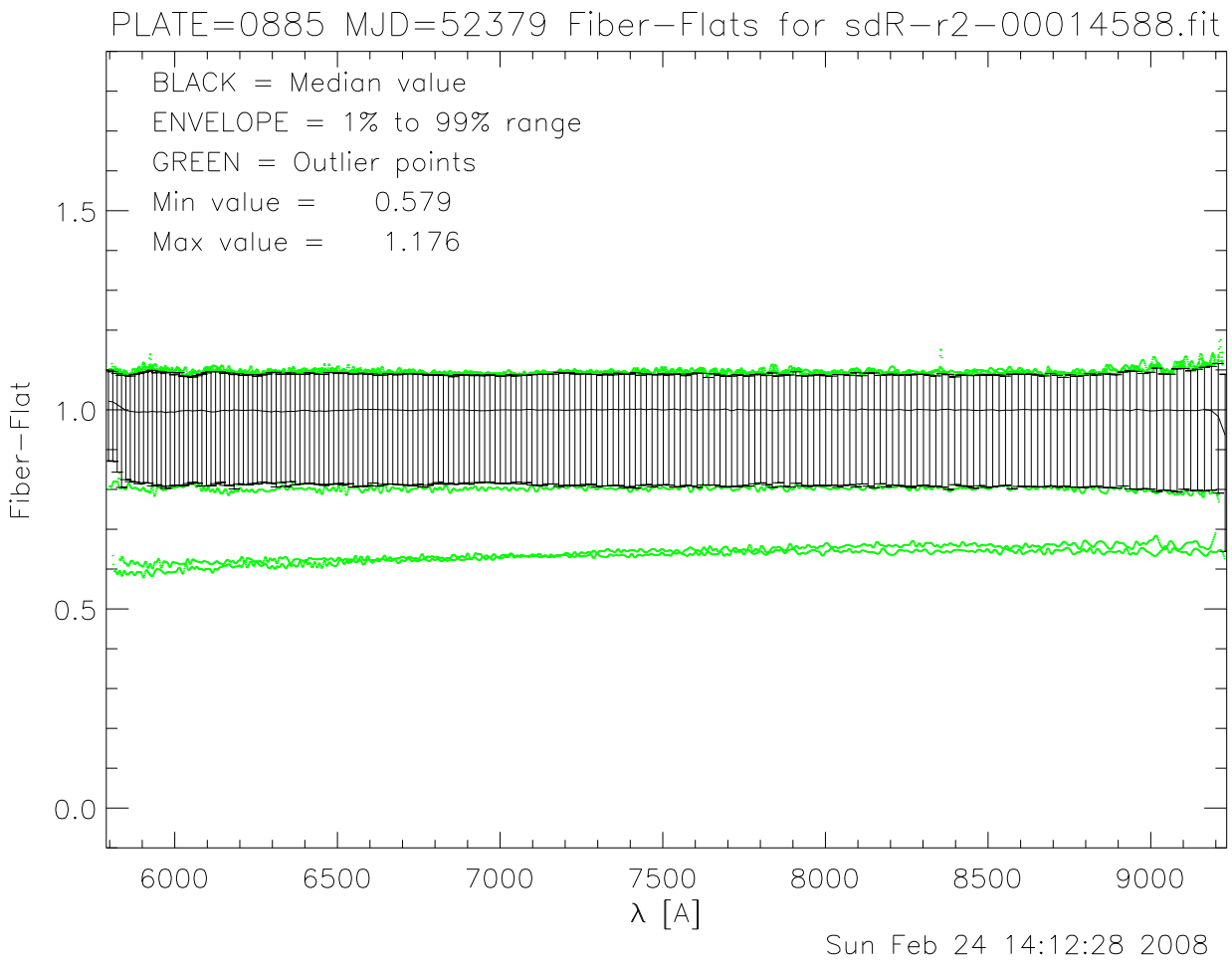

PLATE=0885 MJD=52379 sdR-r2-00014591.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

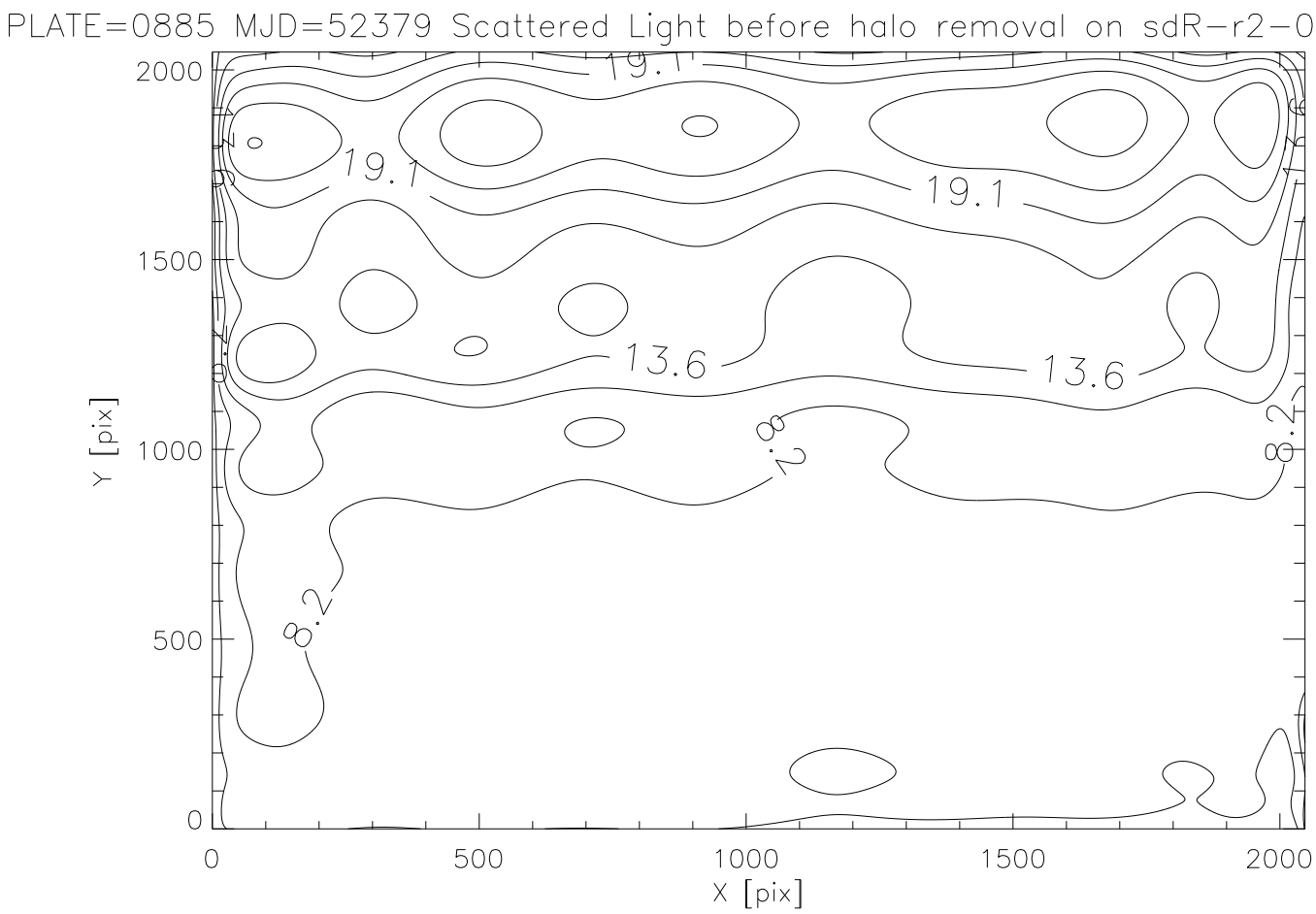

PLATE=0885 MJD=52379 sdR-r2-00014591.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

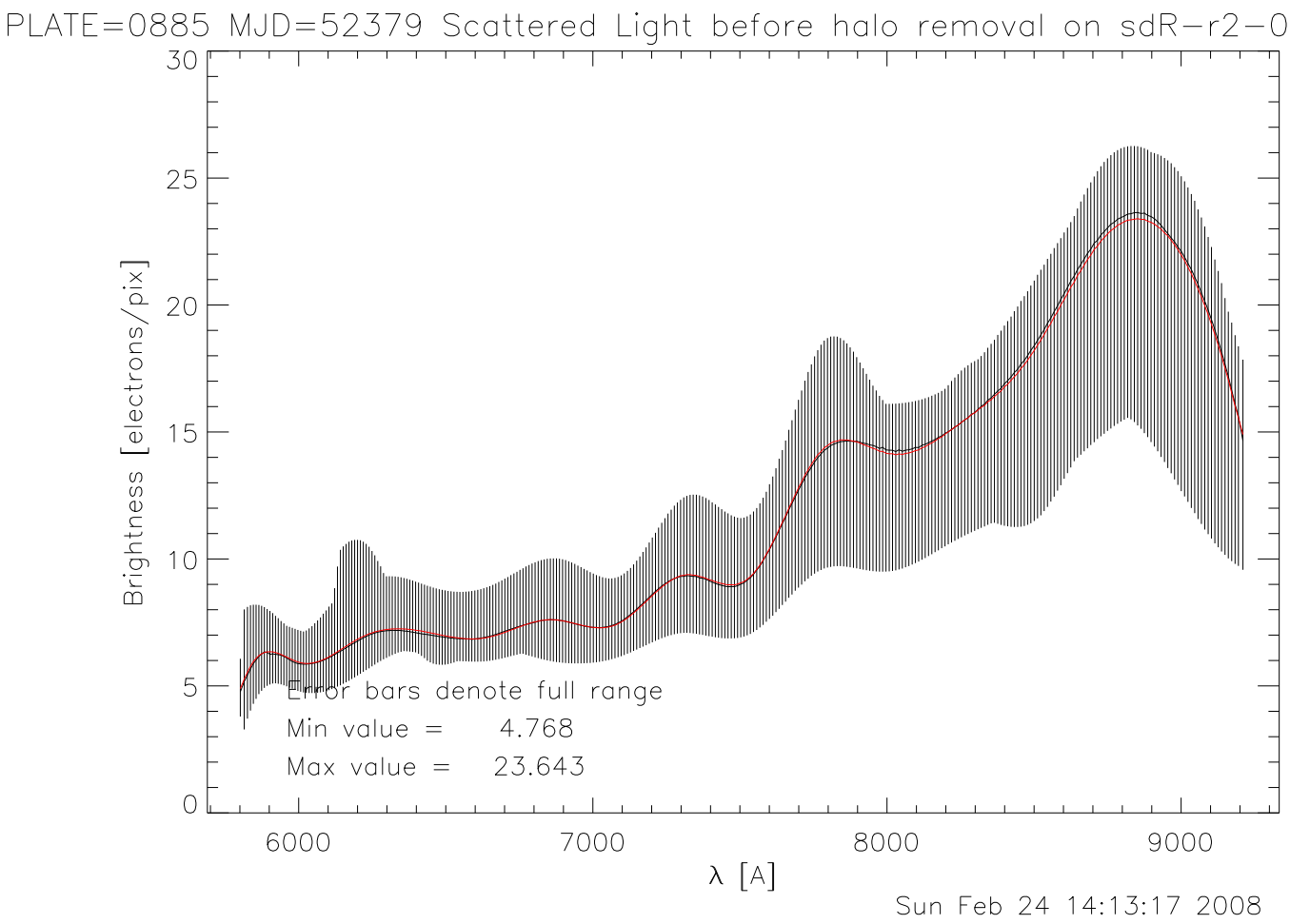

Number of sky fibers = 13
PLATE=0885 MJD=52379 sdR-r2-00014591.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

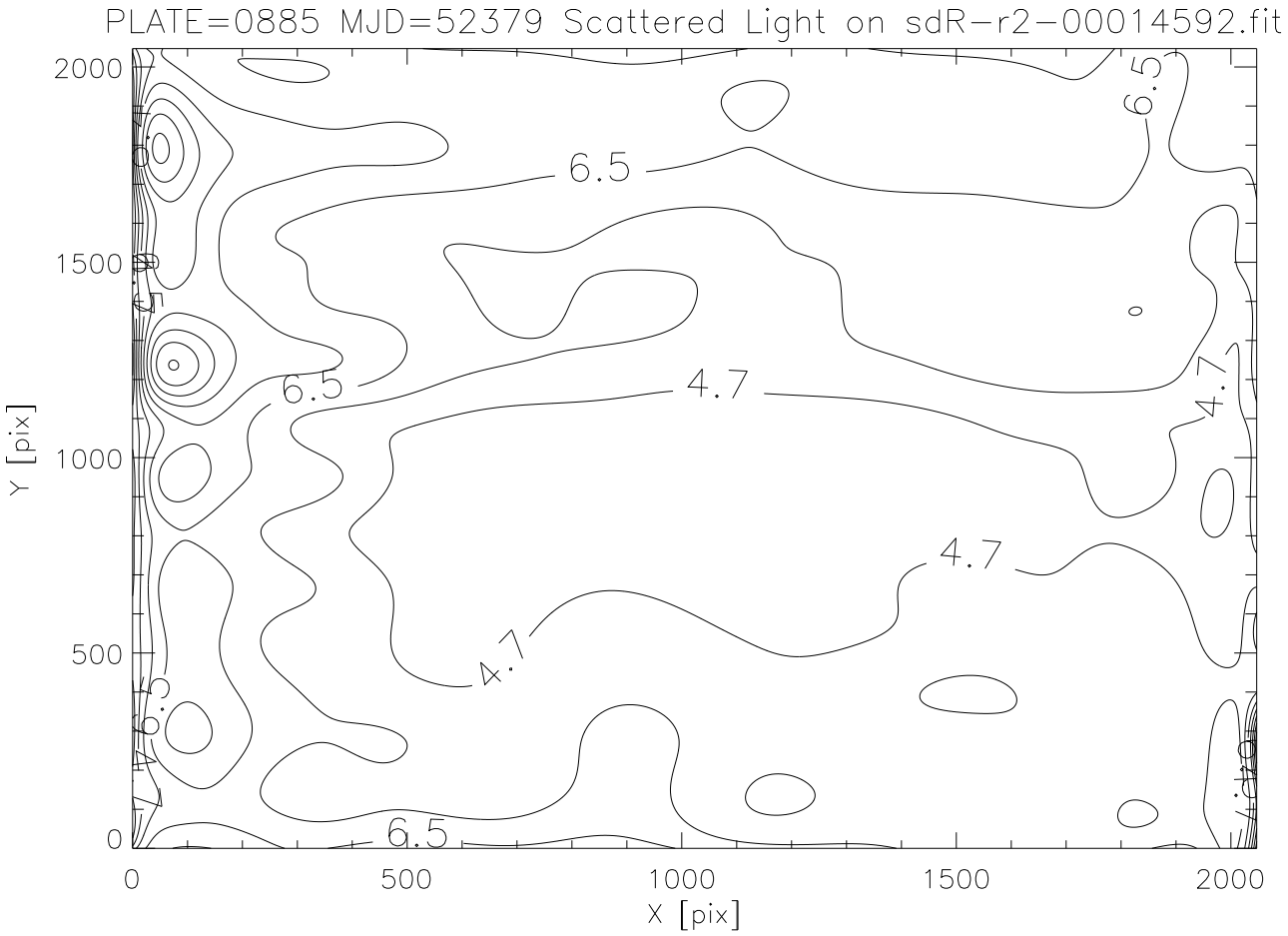

PLATE=0885 MJD=52379 sdR-r2-00014591.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.15 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

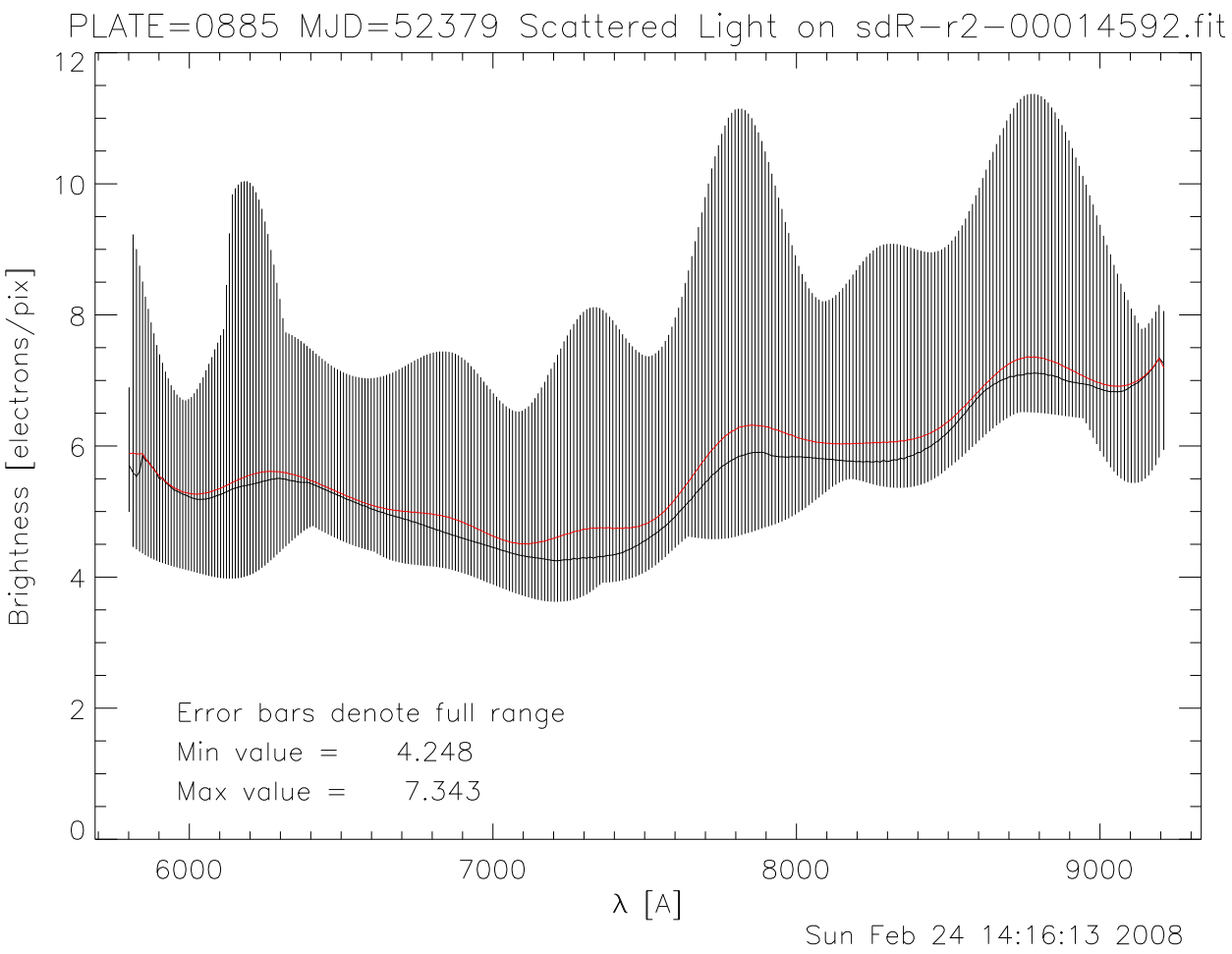

PLATE=0885 MJD=52379 sdR-r2-00014591.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.70 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

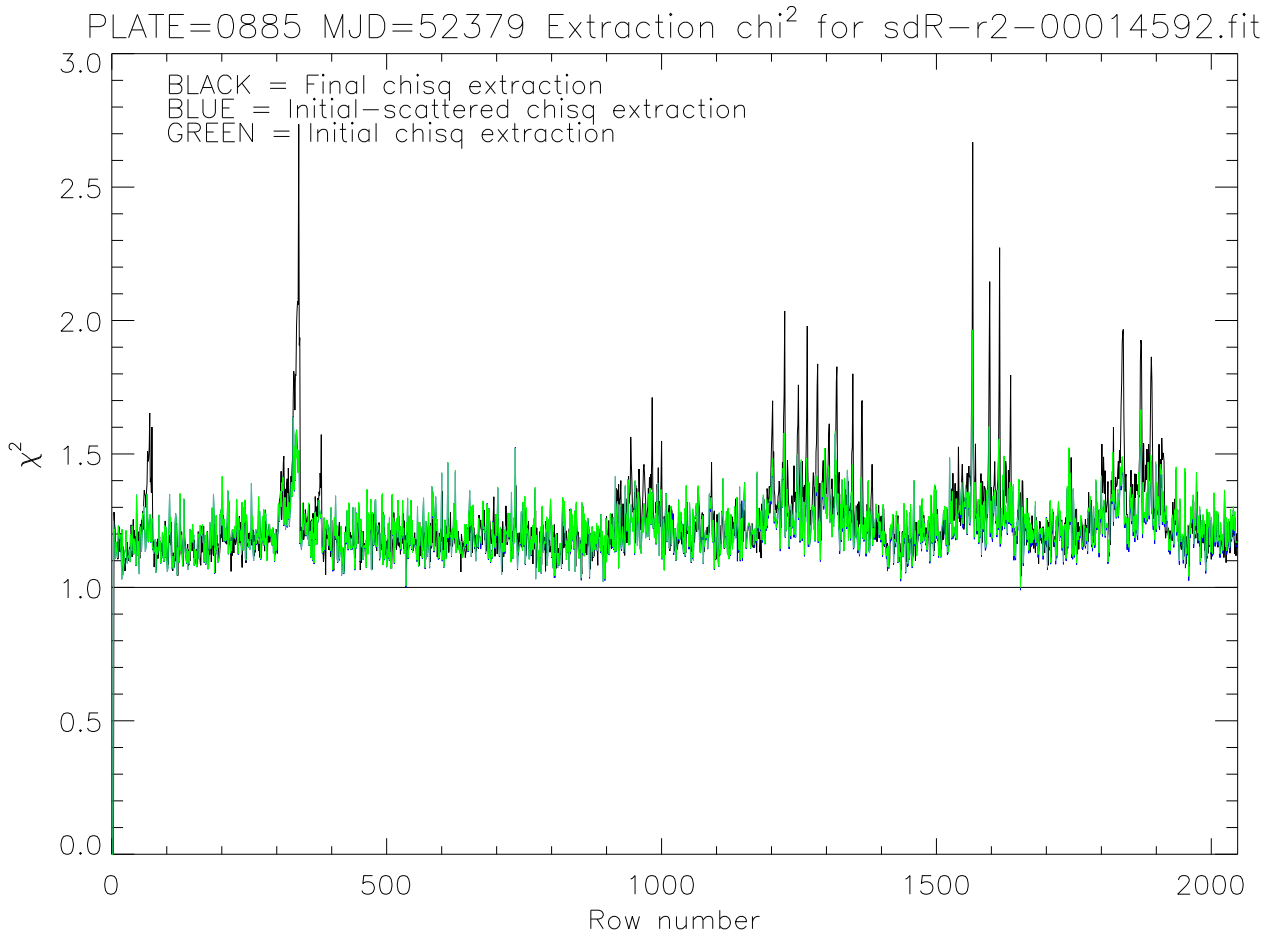

PLATE=0885 MJD=52379 Fiber-Flats for sdR-r2-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.579
Max value = 1.176
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 24 14:12:28 2008

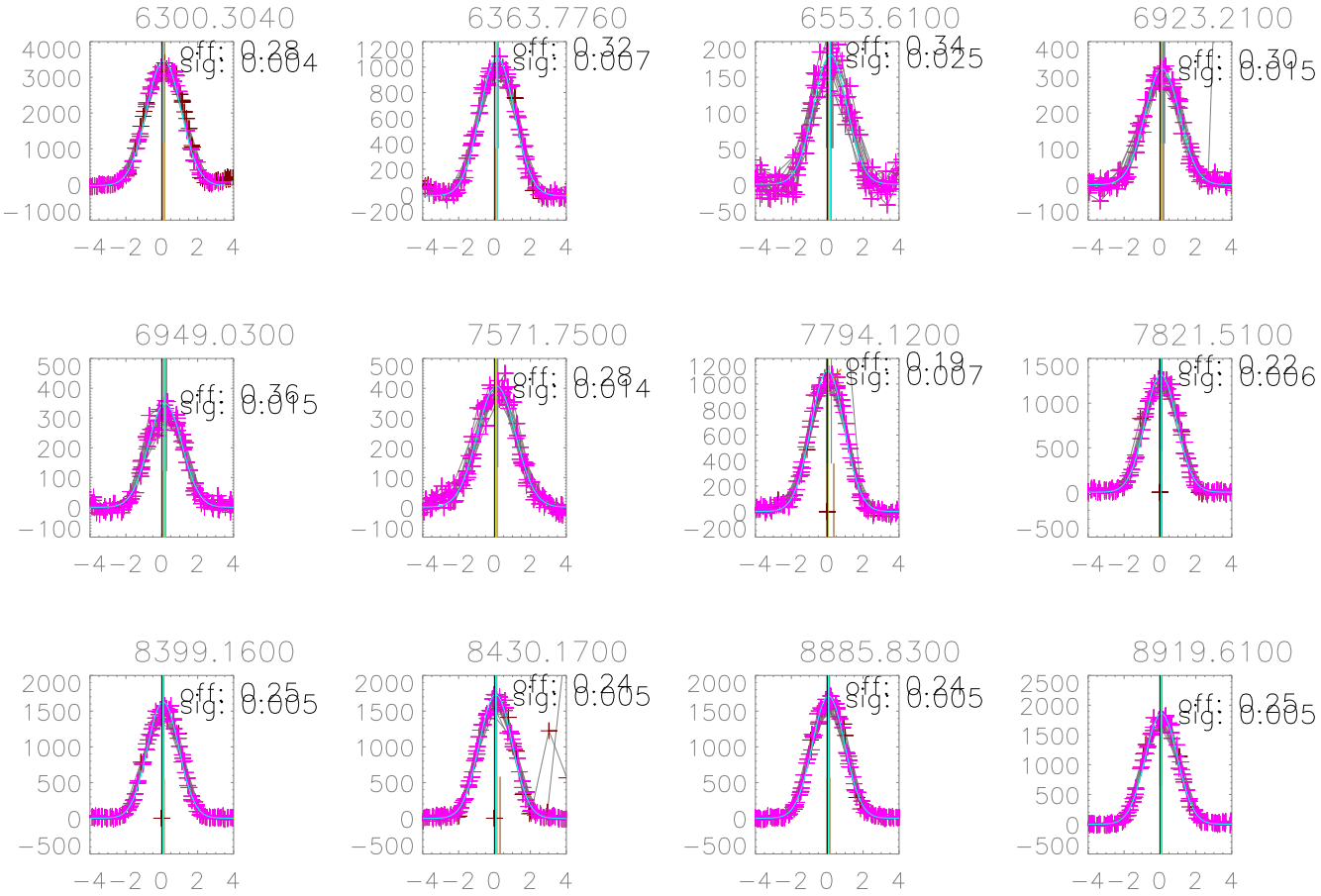

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r2-00014592.fi
19.1
19.1
19.1
13.6
13.6
8.2
8.2
8.2
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

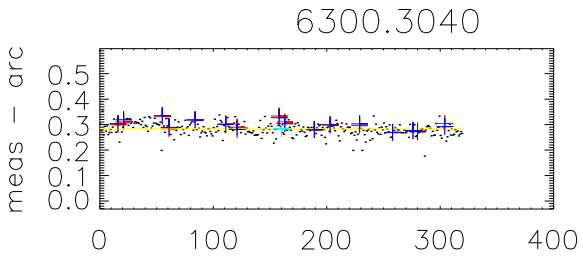

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r2-00014592.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.768
Max value = 23.643
Sun Feb 24 14:13:17 2008

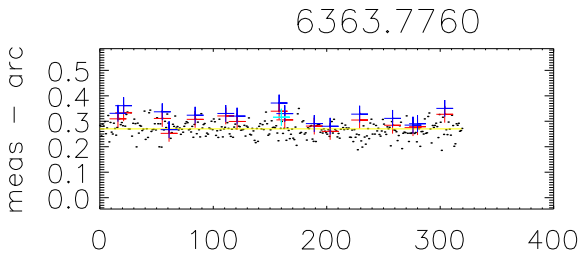

PLATE=0885 MJD=52379 Scattered Light on sdR-r2-00014592.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
4.7

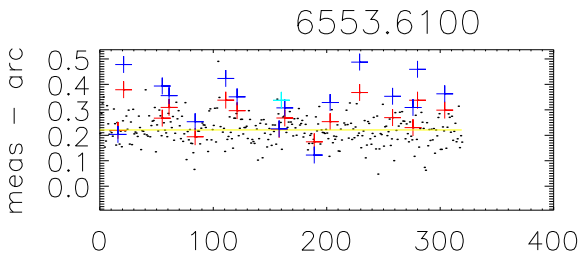

PLATE=0885 MJD=52379 Scattered Light on sdR-r2-00014592.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.248
Max value = 7.343
Sun Feb 24 14:16:13 2008

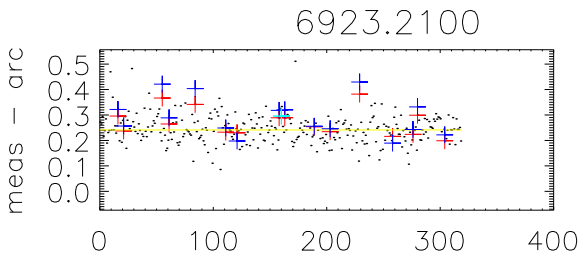

PLATE=0885 MJD=52379 Extraction chi^2 for sdR−r2−00014592.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

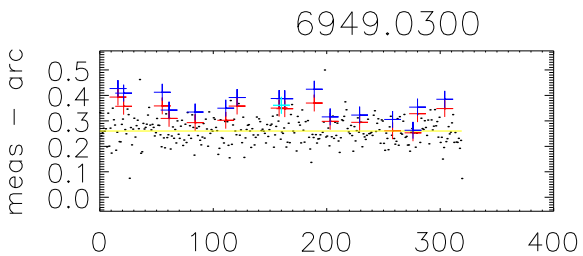

6300.3040
off: 0.28
sig: 0.004
6363.7760
off: 0.32
sig: 0.007
6553.6100
off: 0.34
sig: 0.025
6923.2100
off: 0.30
sig: 0.015
6949.0300
off: 0.36
sig: 0.015
7571.7500
off: 0.28
sig: 0.014
7794.1200
off: 0.19
sig: 0.007
7821.5100
off: 0.22
sig: 0.006
8399.1600
off: 0.25
sig: 0.005
8430.1700
off: 0.24
sig: 0.005
8885.8300
off: 0.24
sig: 0.005
8919.6100
off: 0.25
sig: 0.005

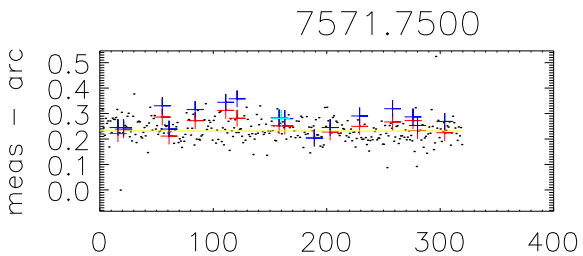

6300.3040
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

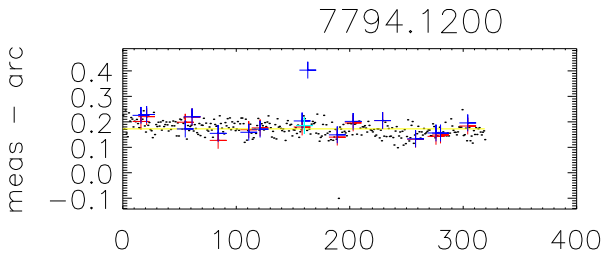

6363.7760
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

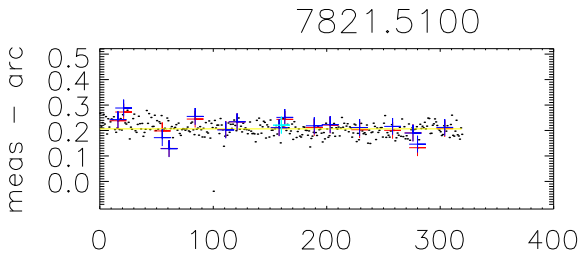

6553.6100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

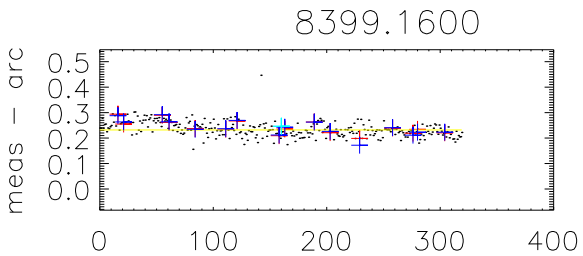

6923.2100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

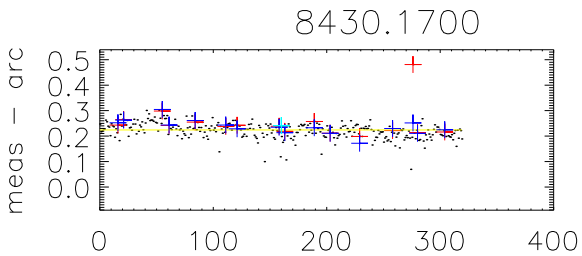

6949.0300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

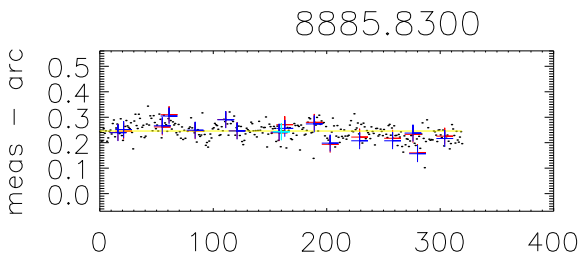

7571.7500
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

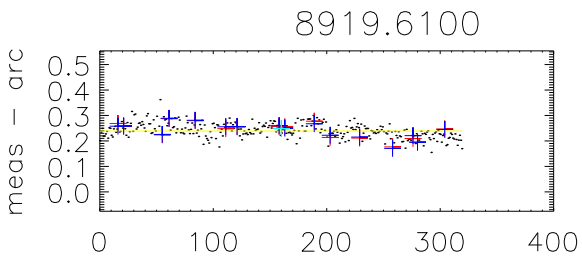

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

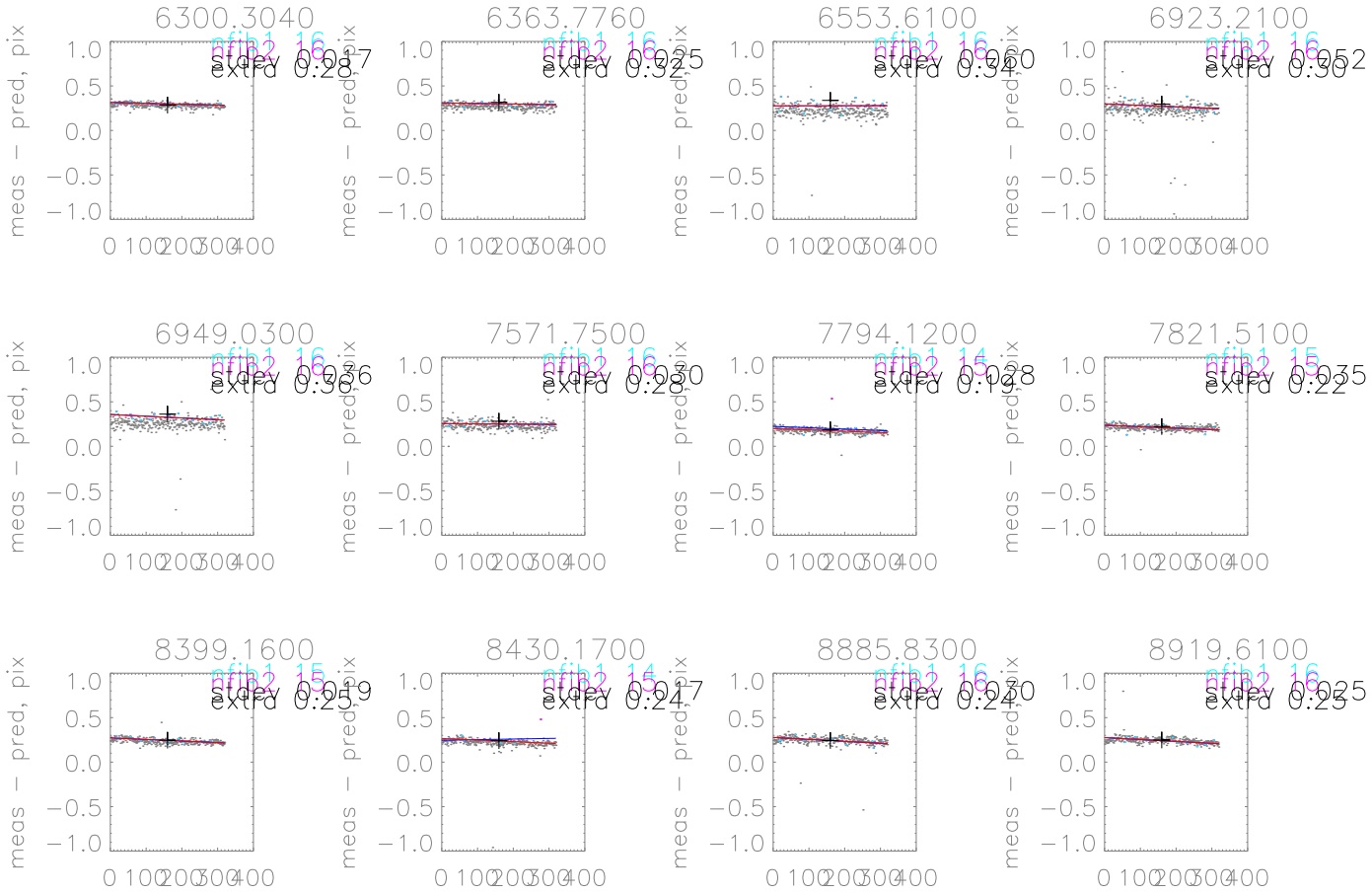

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

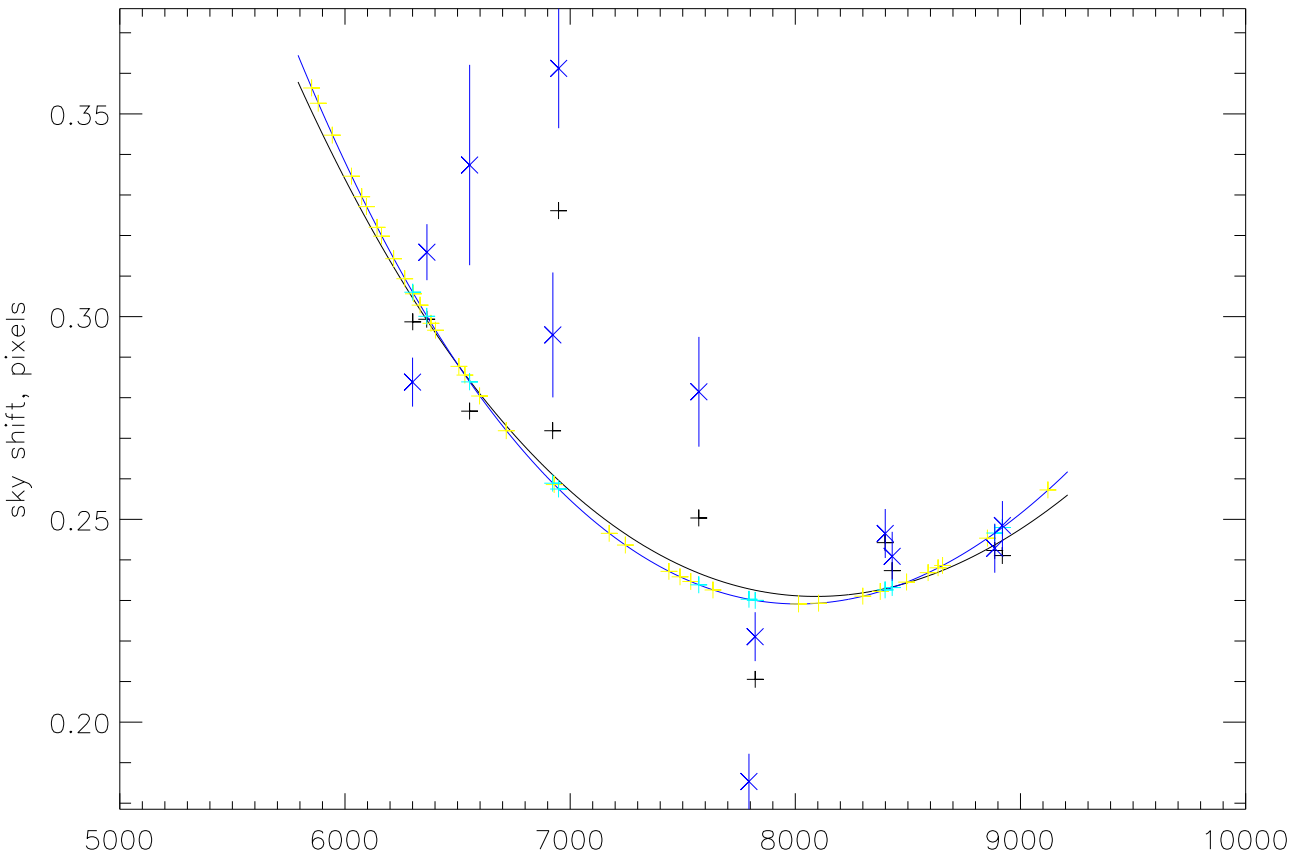

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

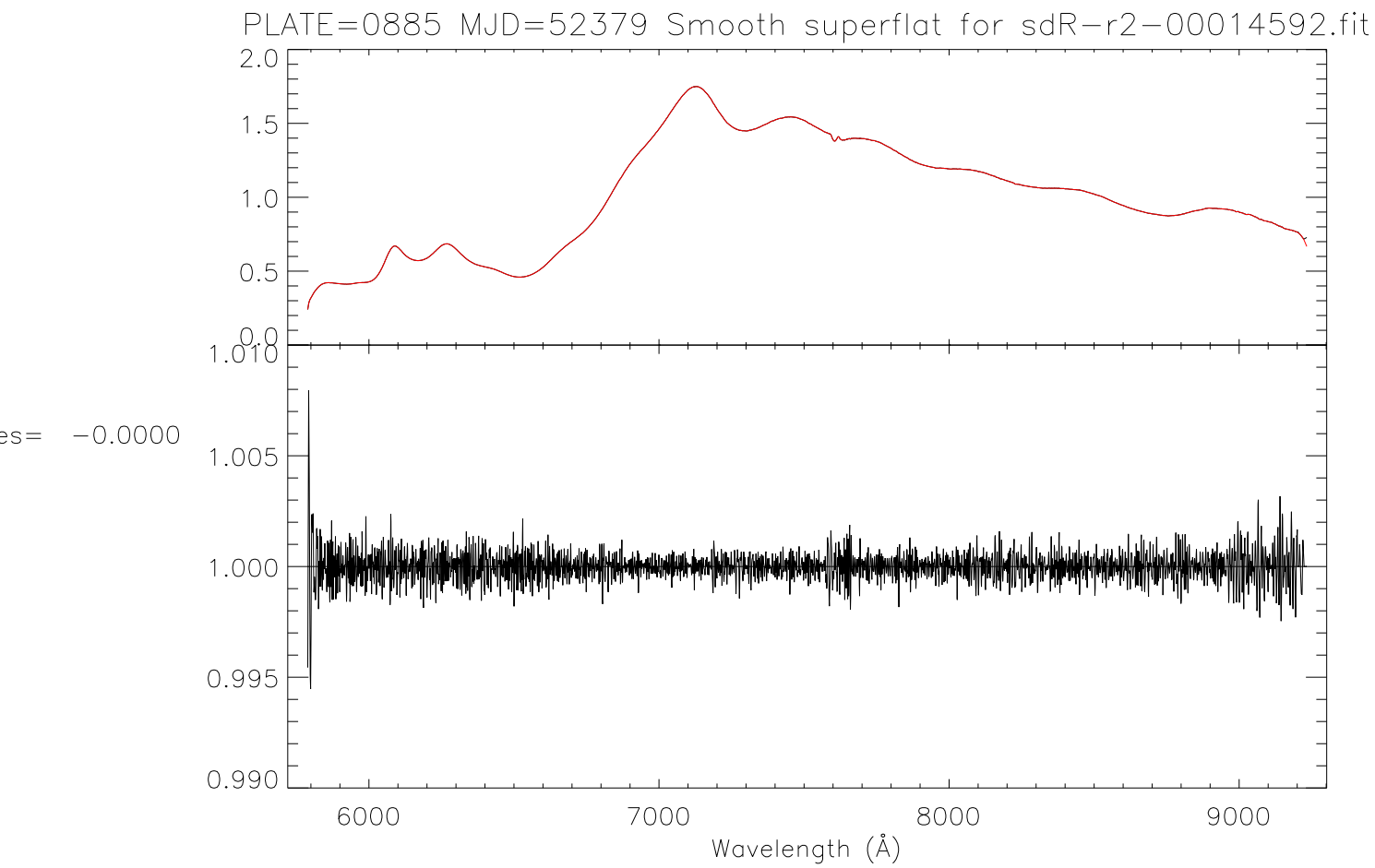

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

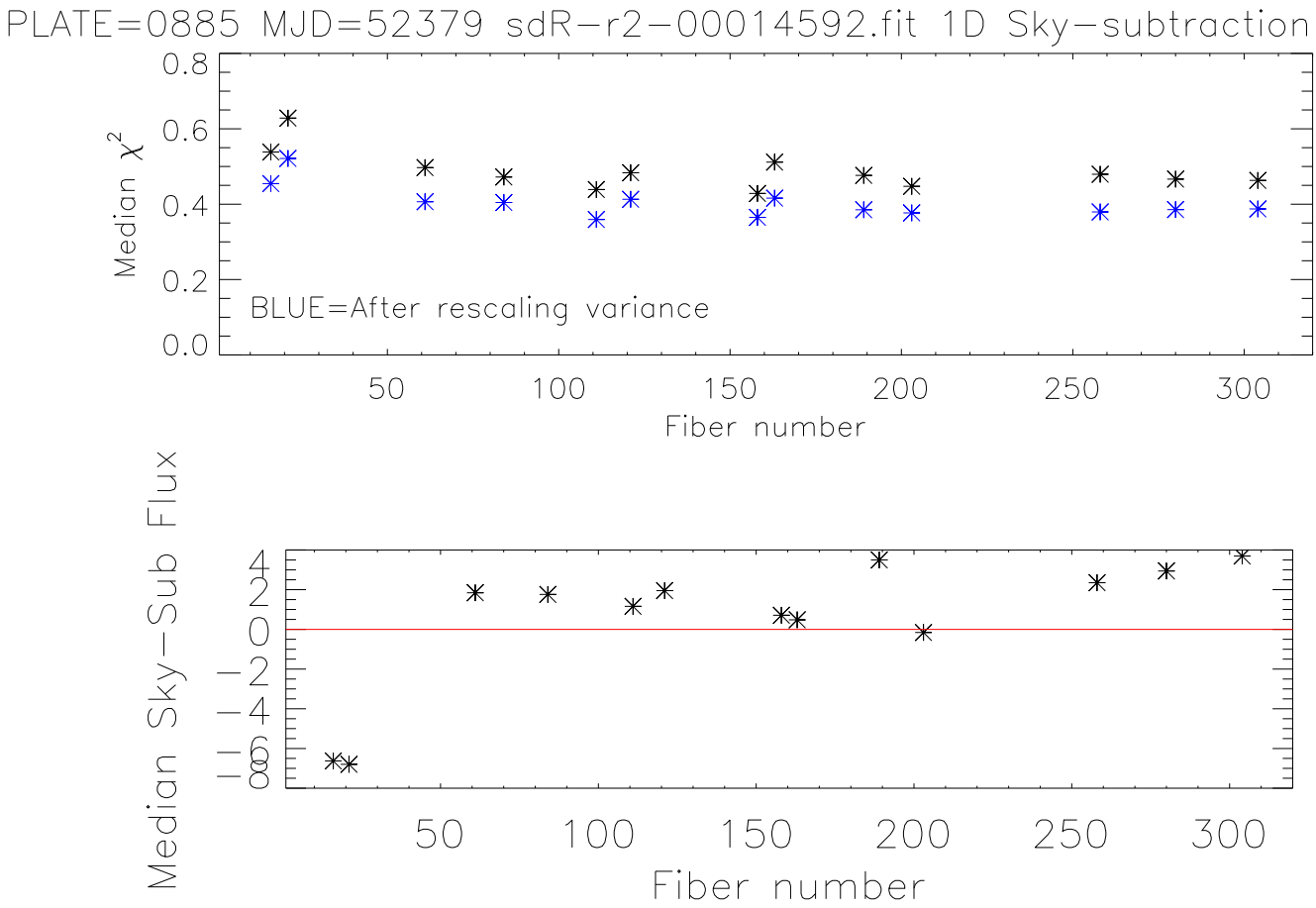

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

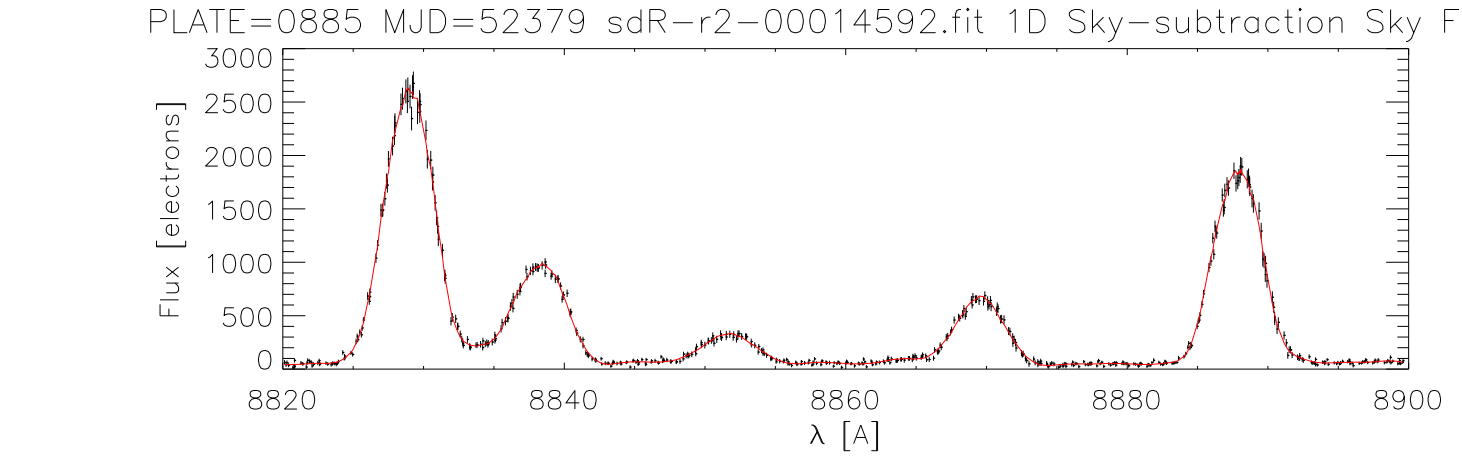

6300.3040
stdev 0.287
extra 0.28
6363.7760
stdev 0.325
extra 0.32
6553.6100
stdev 0.340
extra 0.34
6923.2100
stdev 0.352
extra 0.30
6949.0300
stdev 0.336
extra 0.36
7571.7500
stdev 0.330
extra 0.28
7794.1200
stdev 0.328
extra 0.14
7821.5100
stdev 0.335
extra 0.22
8399.1600
stdev 0.259
extra 0.25
8430.1700
stdev 0.247
extra 0.24
8885.8300
stdev 0.230
extra 0.24
8919.6100
stdev 0.225
extra 0.23
meas − pred, pix
mfb1 16
mfb2 16

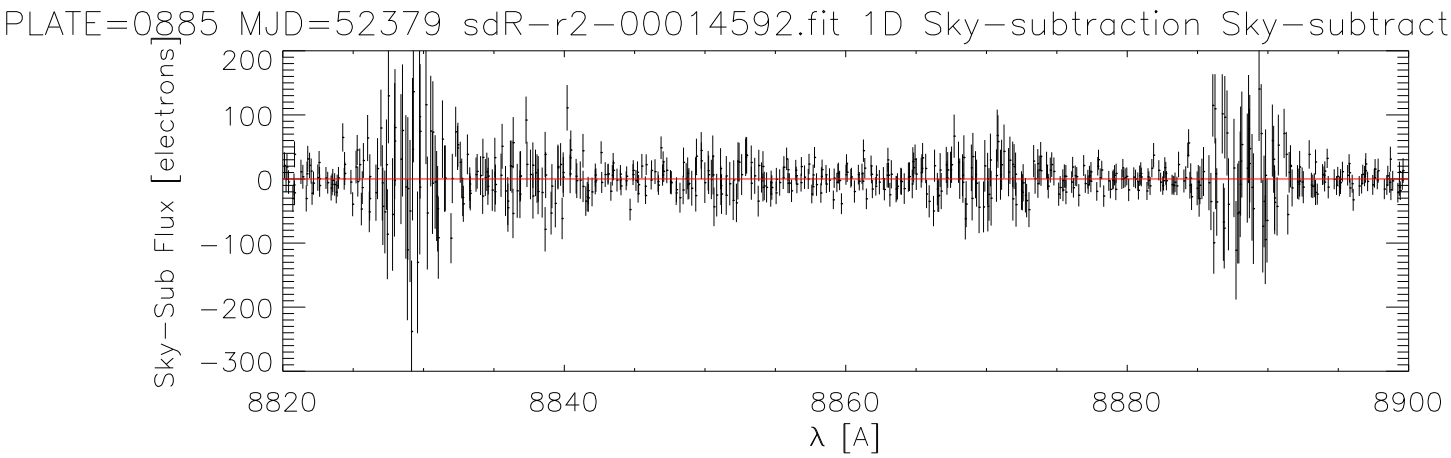

sky shift, pixels
0.35
0.30
0.25
0.20
5000
6000
7000
8000
9000
10000

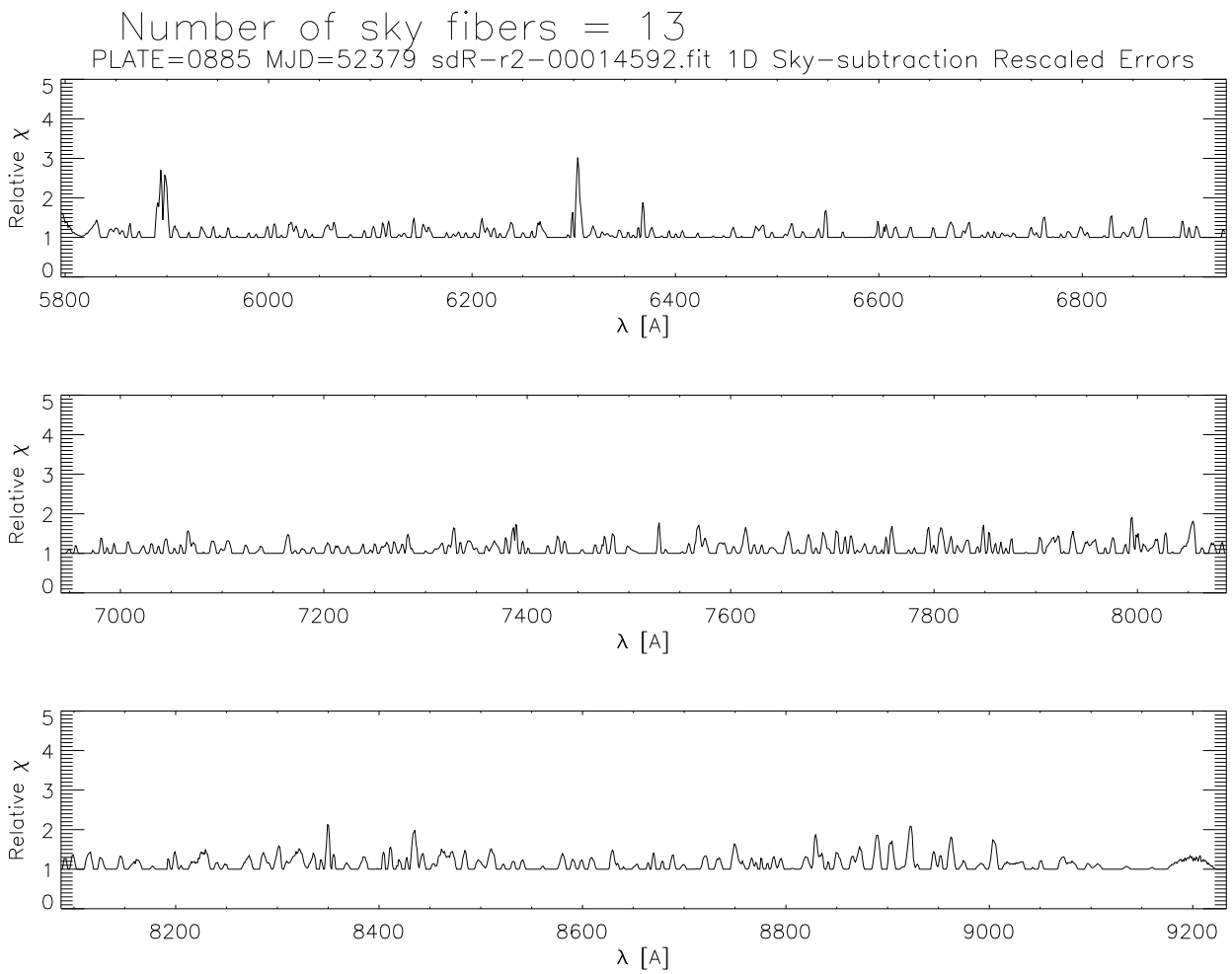

PLATE=0885 MJD=52379 Smooth superflat for sdR-r2-00014592.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

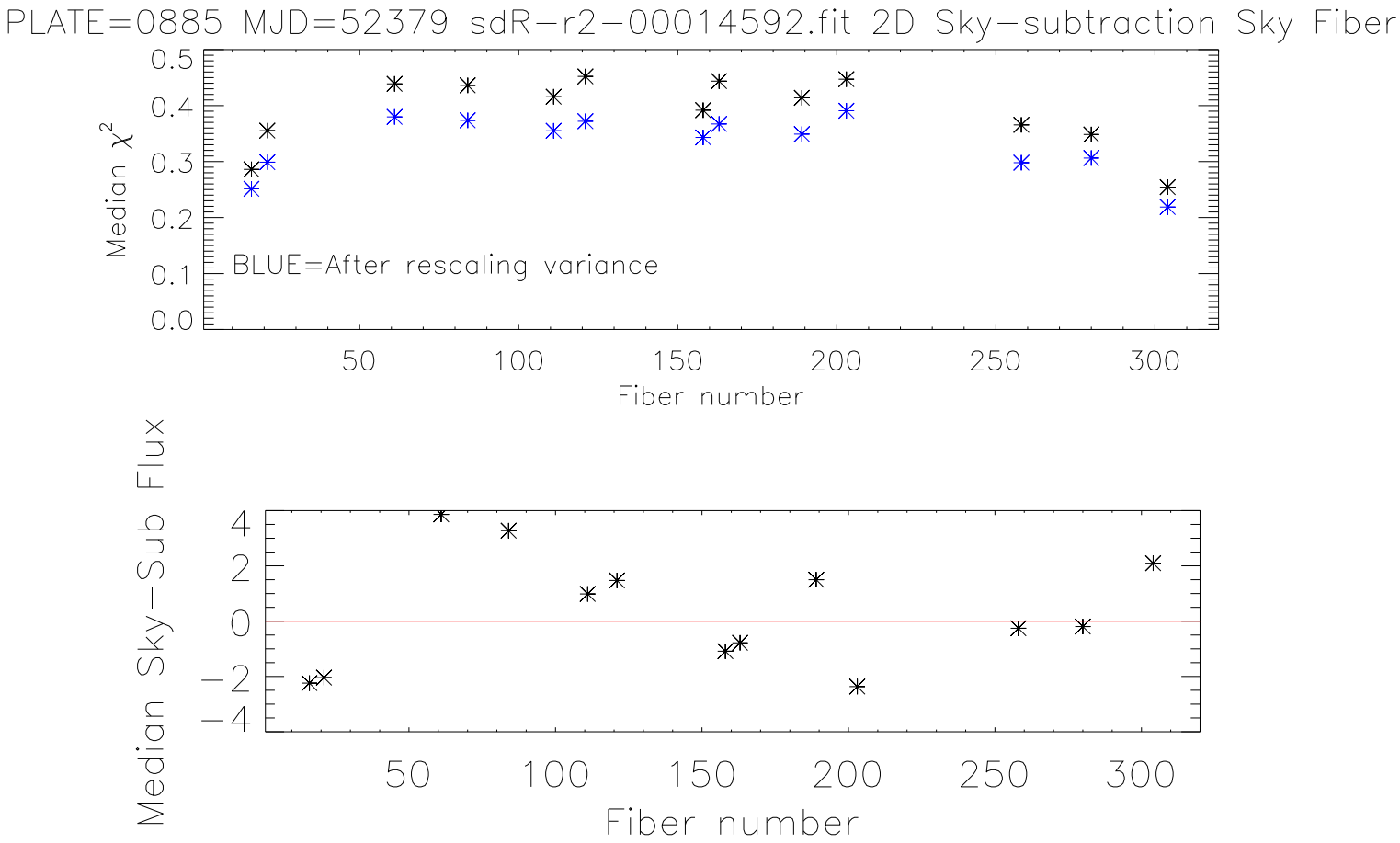
es= −0.0000

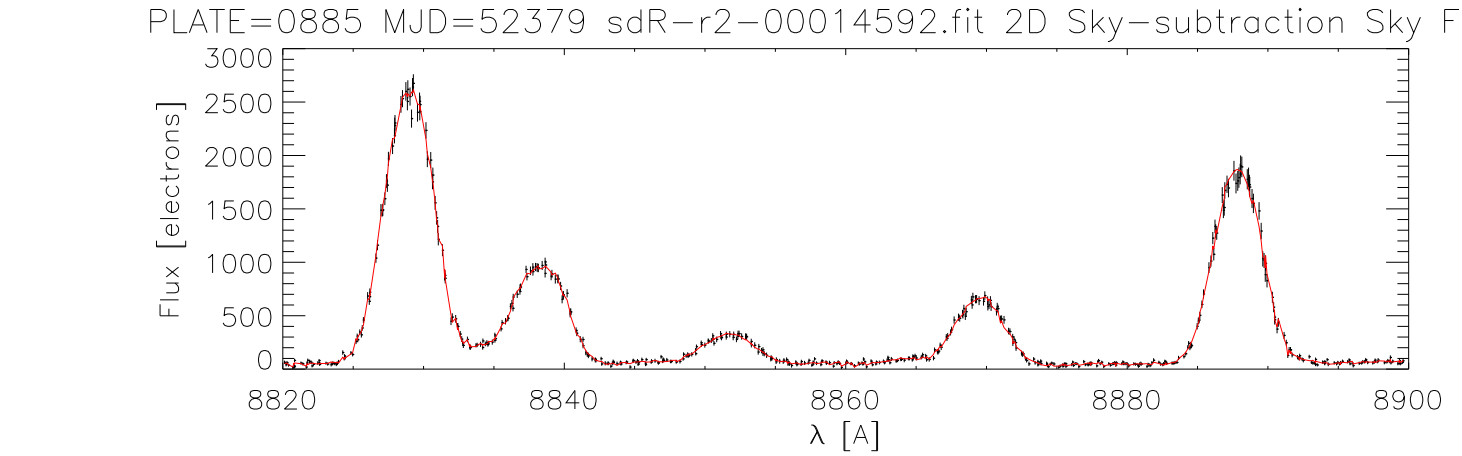

PLATE=0885 MJD=52379 sdR-r2-00014592.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

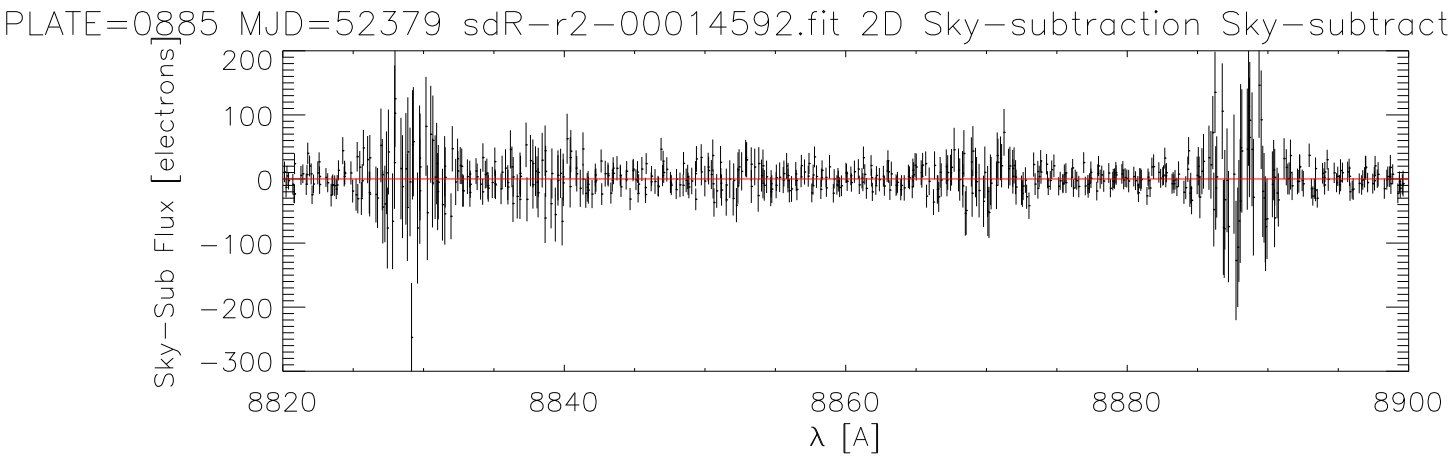

PLATE=0885 MJD=52379 sdR-r2-00014592.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

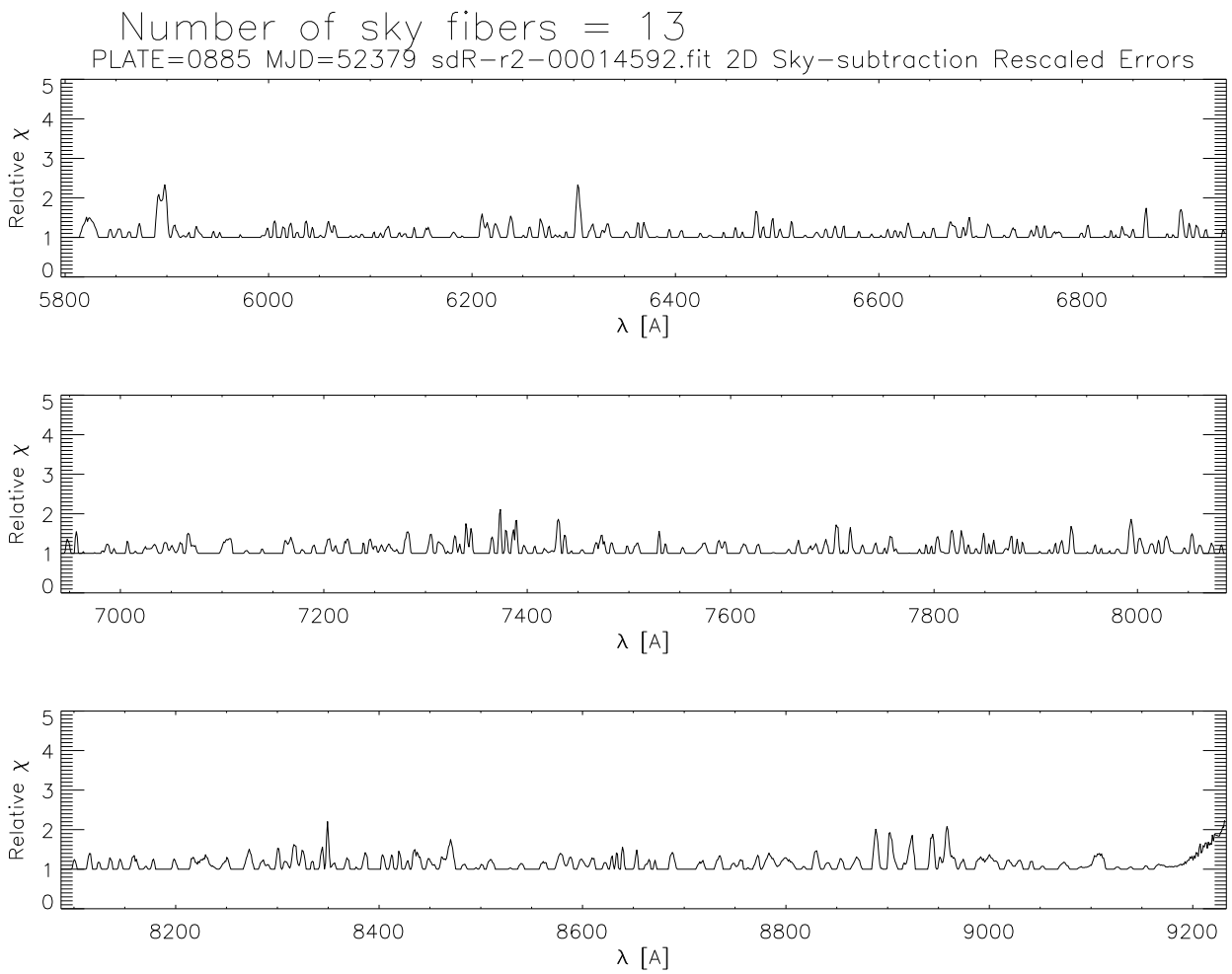

PLATE=0885 MJD=52379 sdR-r2-00014592.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

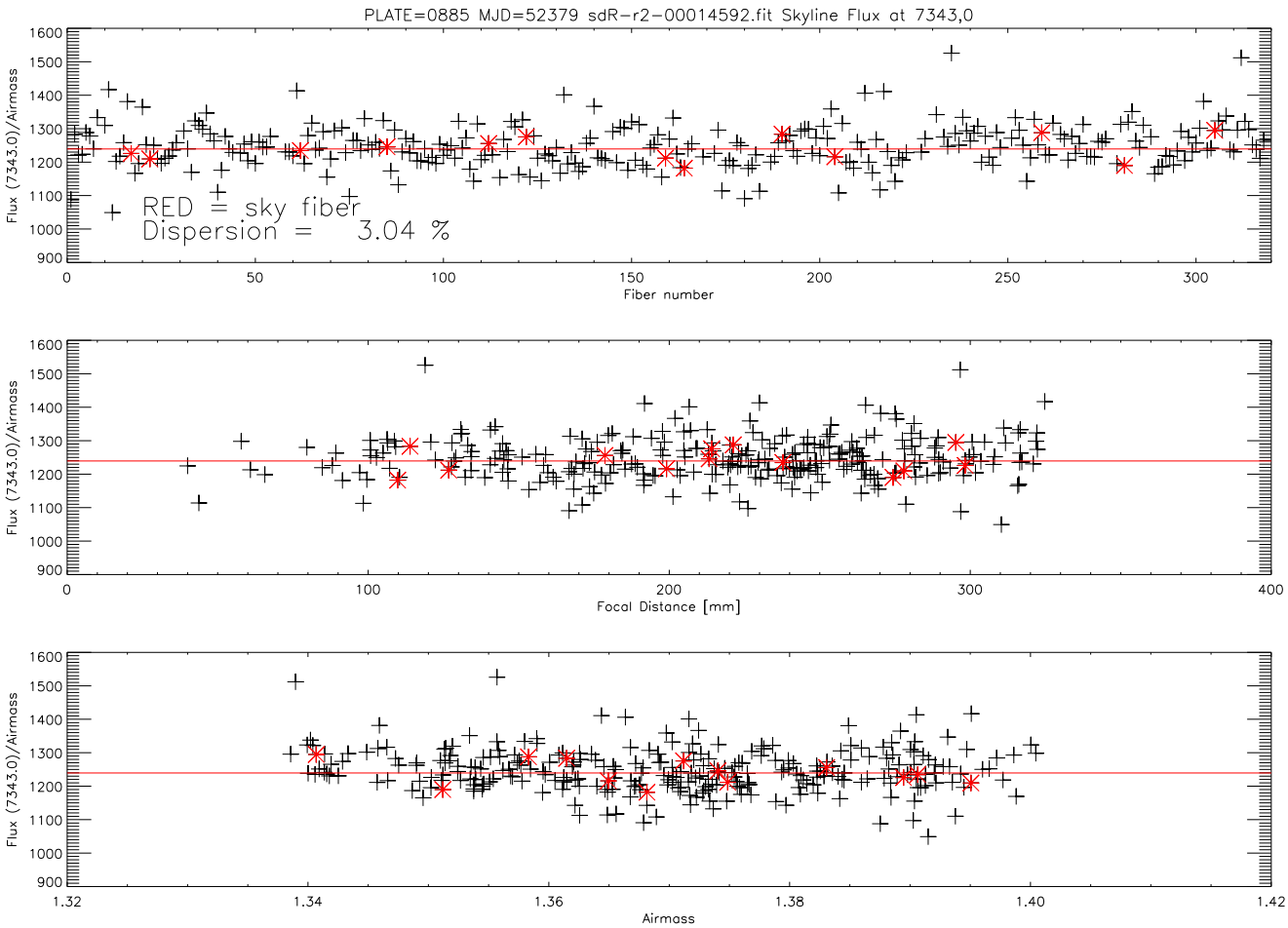

Number of sky fibers = 13
PLATE=0885 MJD=52379 sdR-r2-00014592.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

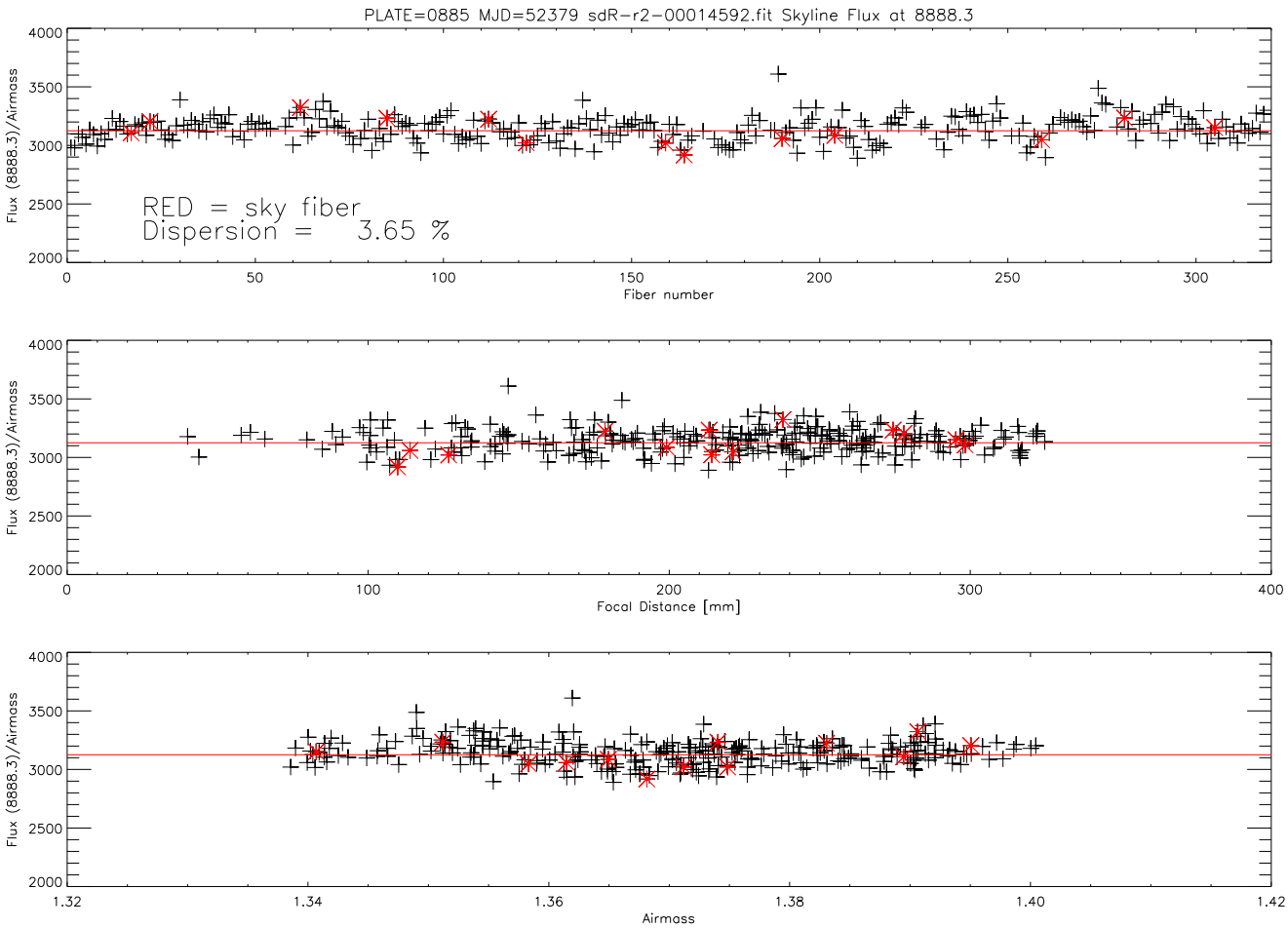

PLATE=0885 MJD=52379 sdR-r2-00014592.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

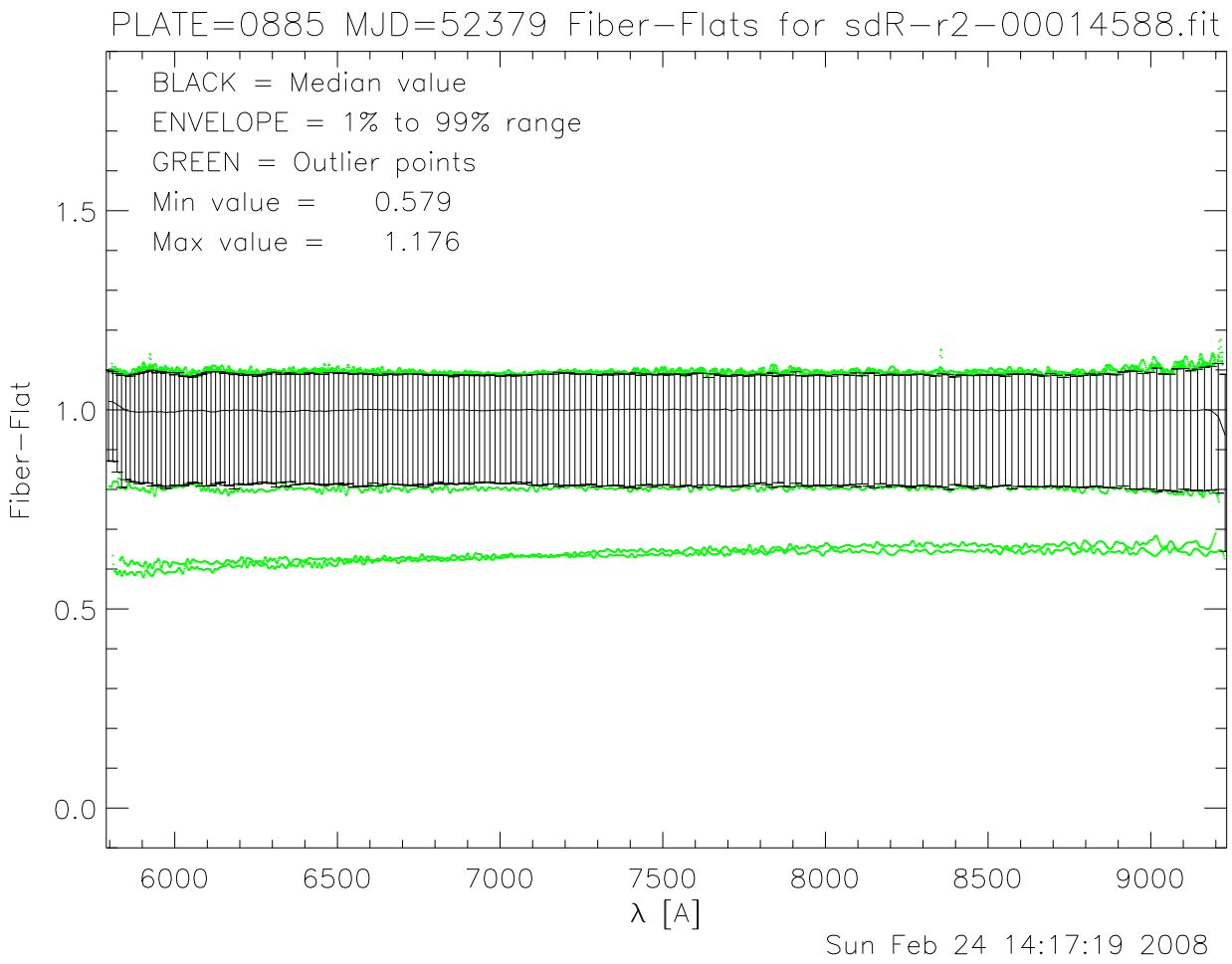

PLATE=0885 MJD=52379 sdR-r2-00014592.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

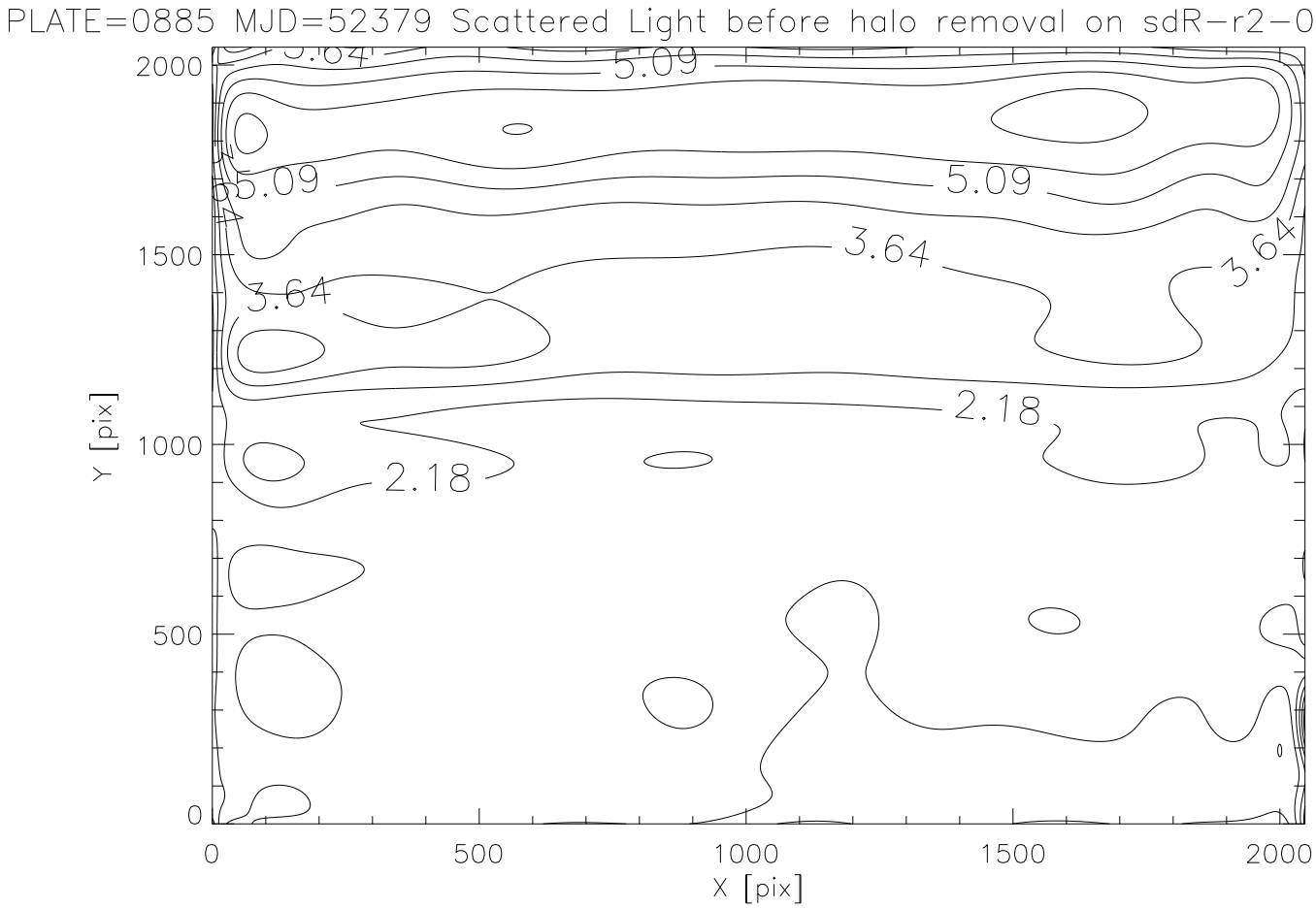

PLATE=0885 MJD=52379 sdR-r2-00014592.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

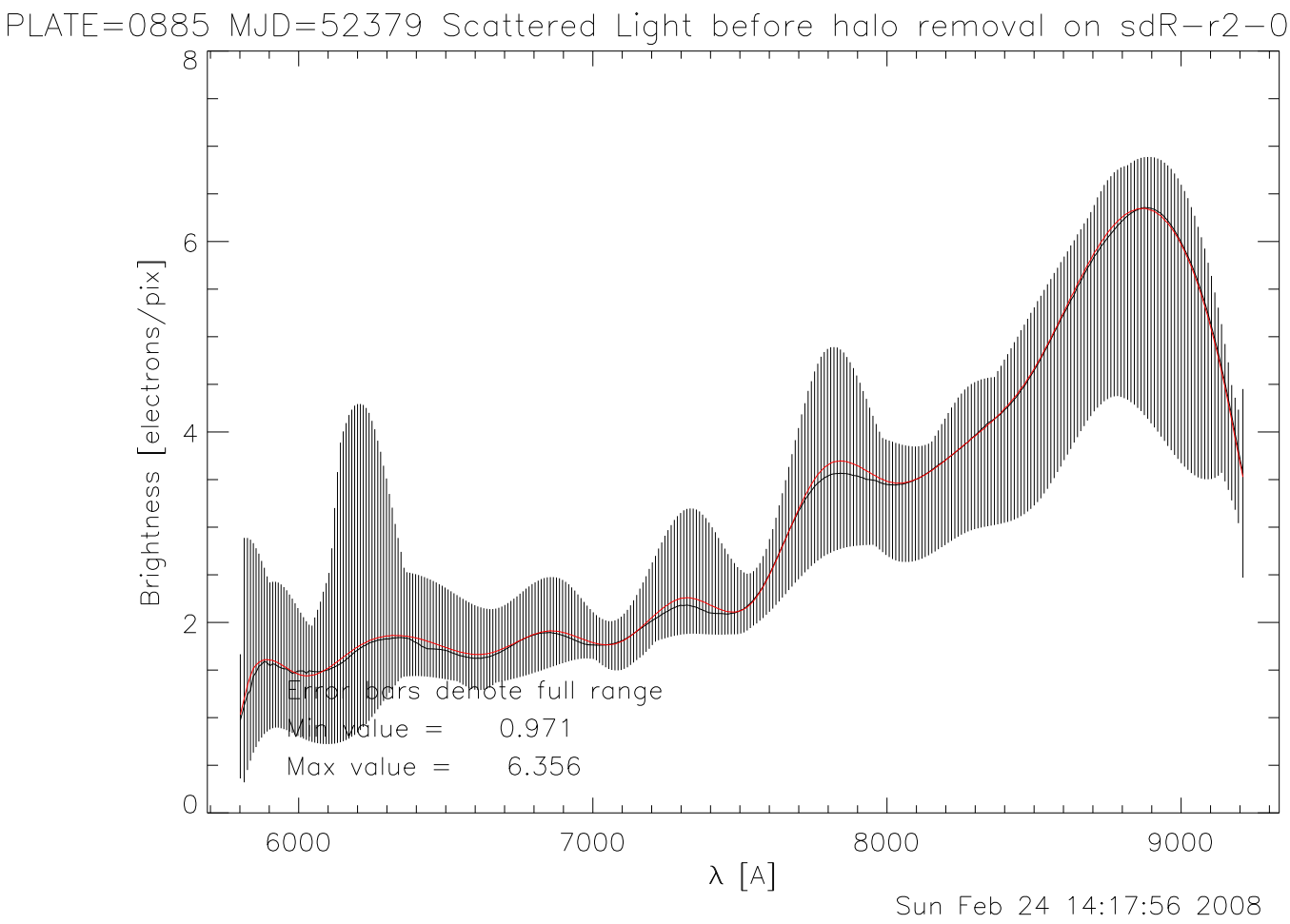

Number of sky fibers = 13
PLATE=0885 MJD=52379 sdR-r2-00014592.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

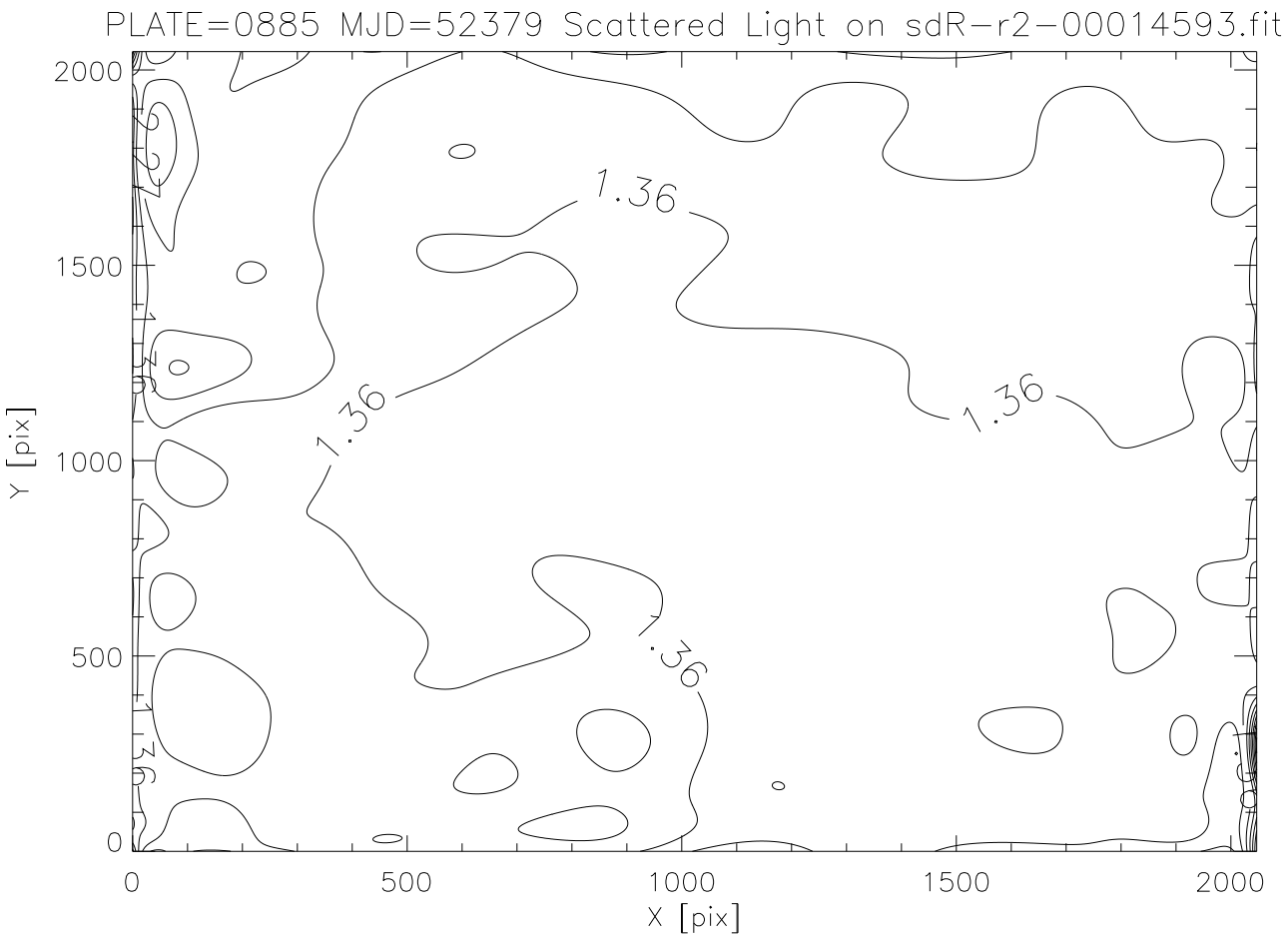

PLATE=0885 MJD=52379 sdR-r2-00014592.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.04 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

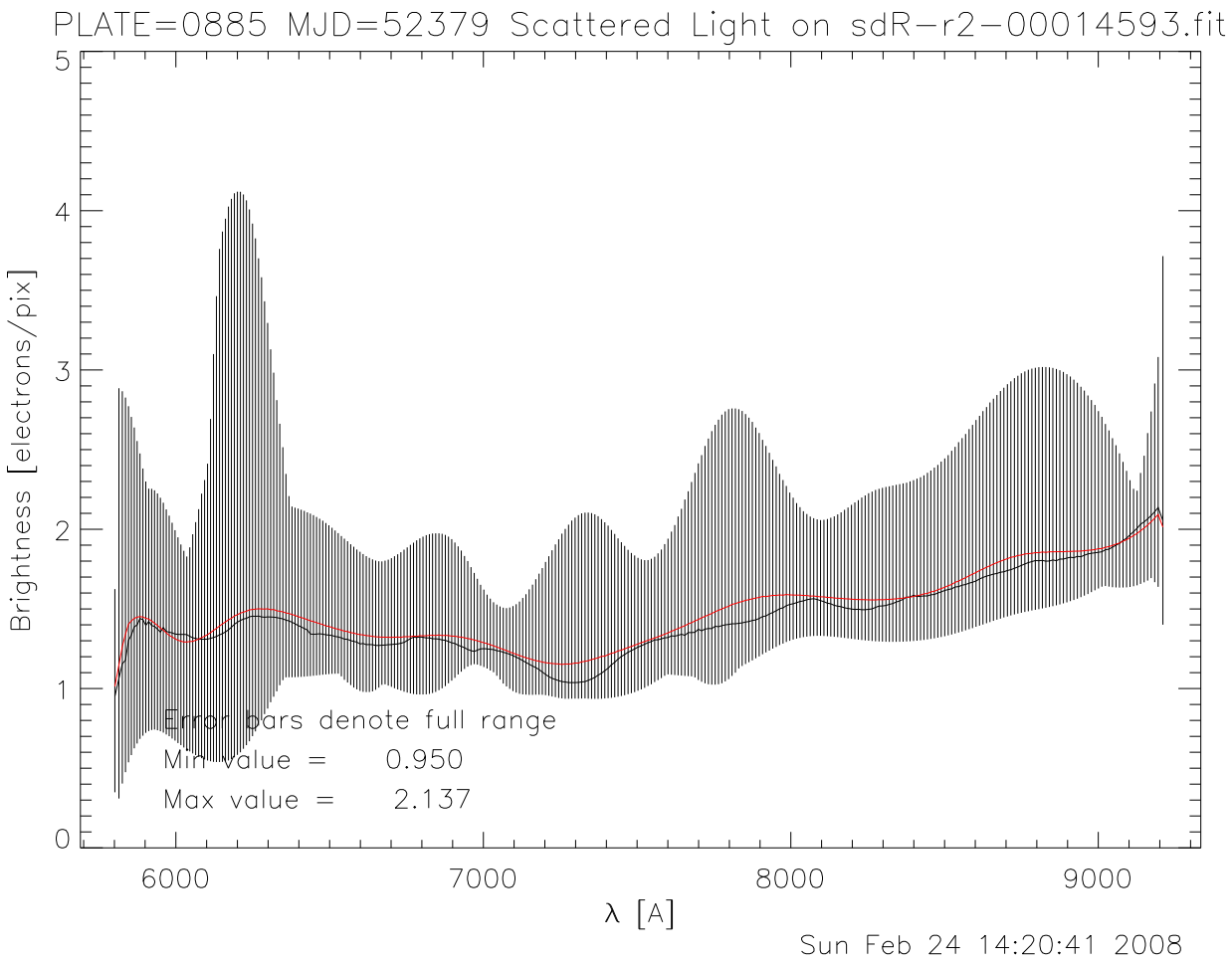

PLATE=0885 MJD=52379 sdR-r2-00014592.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.65 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

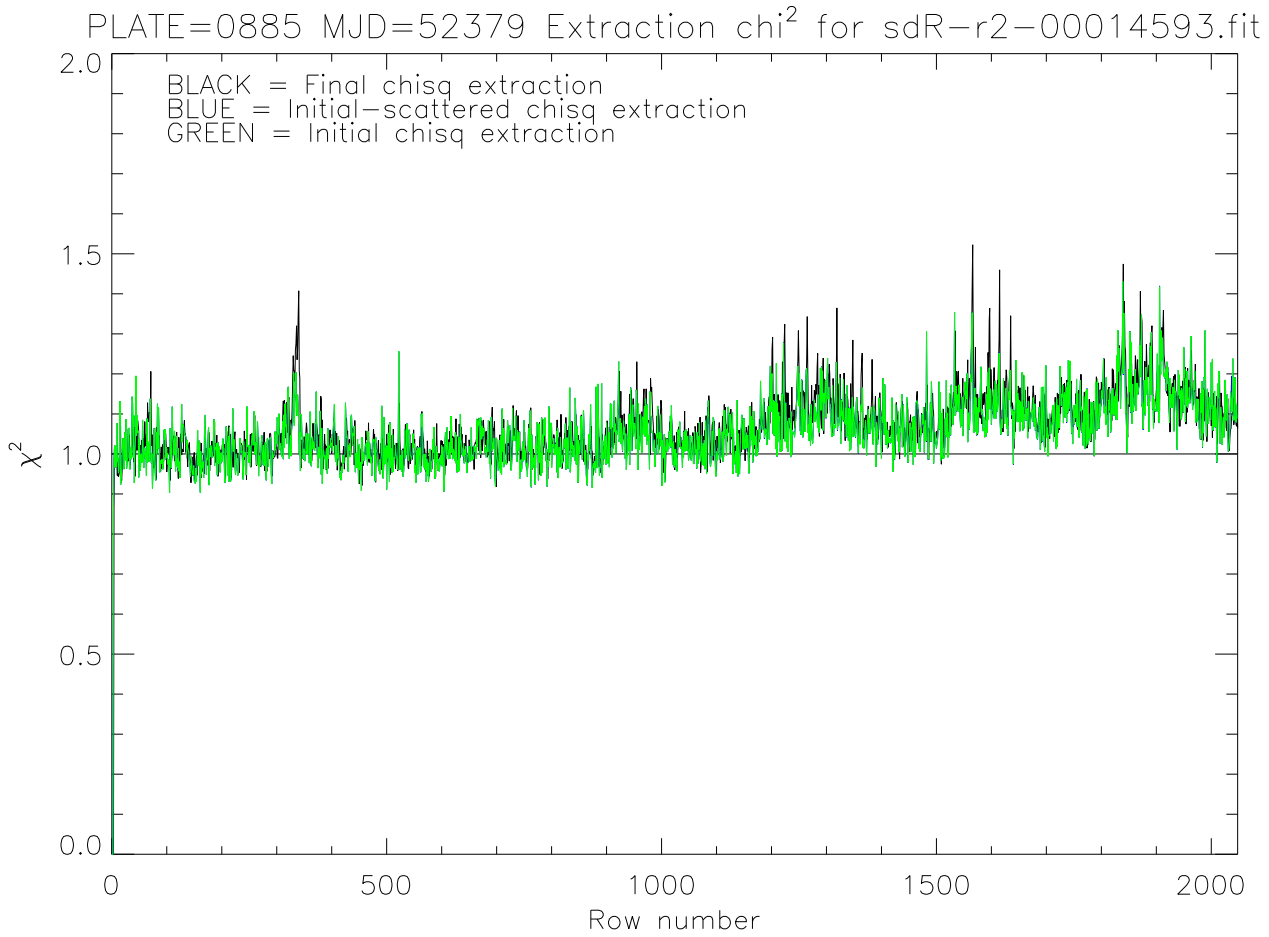

PLATE=0885 MJD=52379 Fiber-Flats for sdR-r2-00014588.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.579
Max value = 1.176
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 24 14:17:19 2008

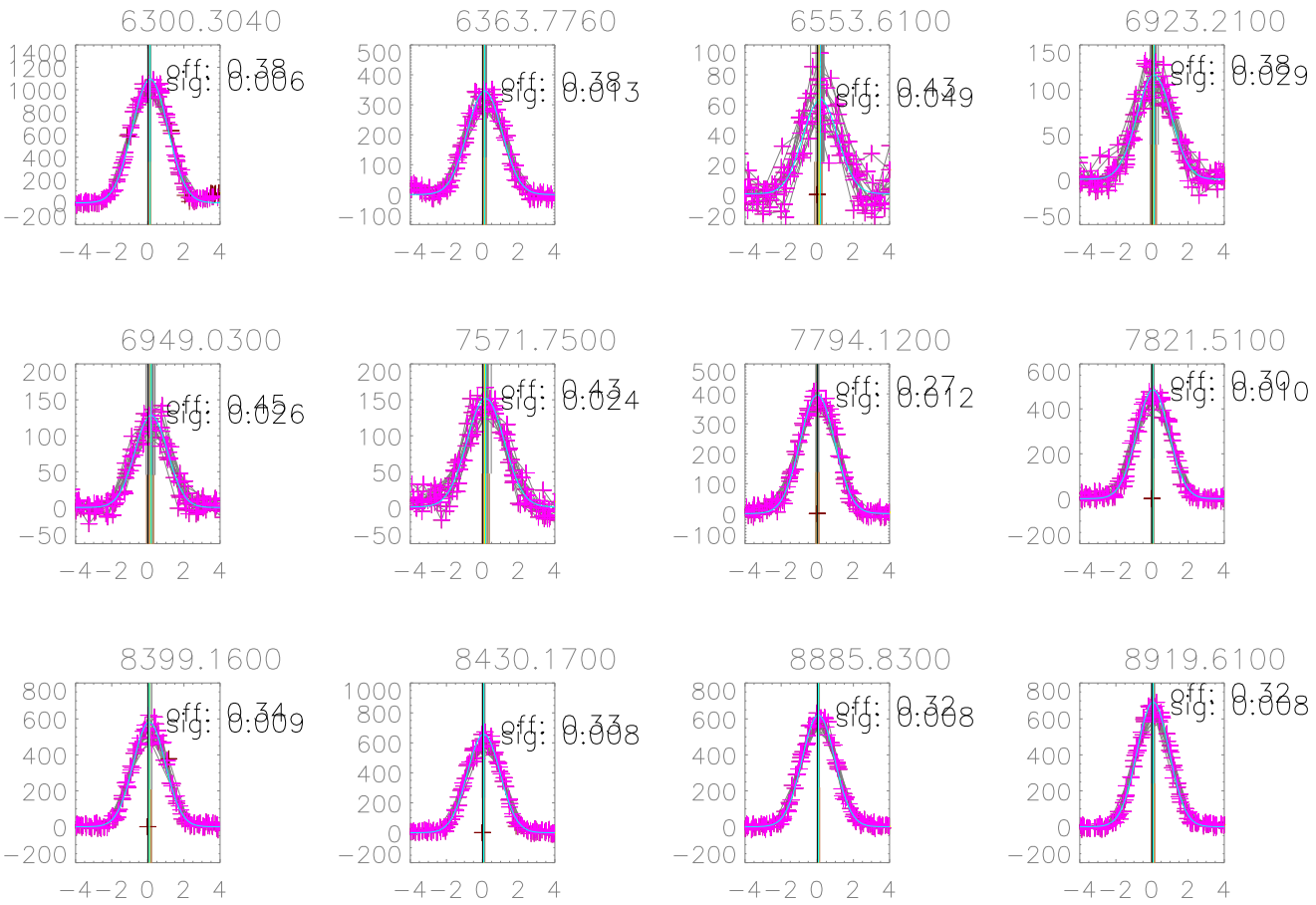

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r2-00014593.fi
5.09
5.09
5.09
3.64
3.64
3.64
2.18
2.18
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

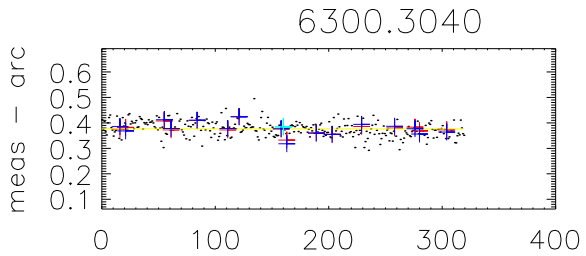

PLATE=0885 MJD=52379 Scattered Light before halo removal on sdR-r2-00014593.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.971
Max value = 6.356
Sun Feb 24 14:17:56 2008

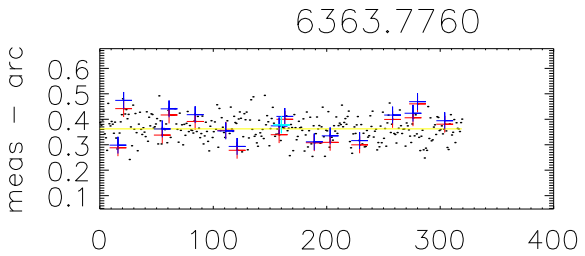

PLATE=0885 MJD=52379 Scattered Light on sdR-r2-00014593.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.36
1.36
1.36
1.36
0
0
0
0

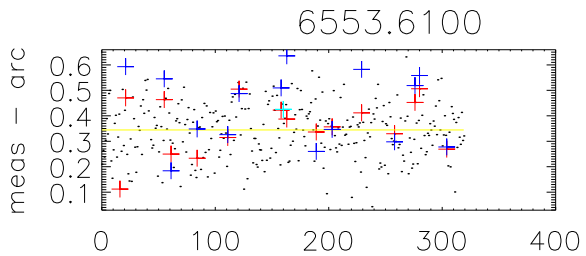

PLATE=0885 MJD=52379 Scattered Light on sdR-r2-00014593.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.950
Max value = 2.137
Sun Feb 24 14:20:41 2008

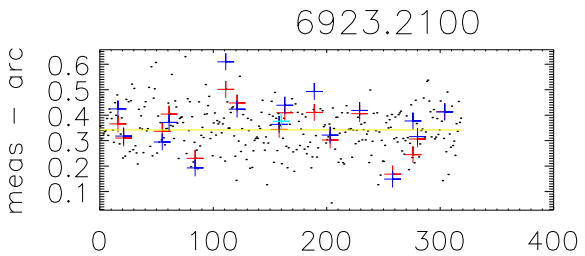

PLATE=0885 MJD=52379 Extraction chi^2 for sdR-r2-00014593.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

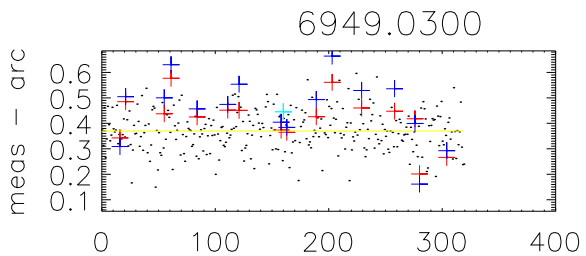

6300.3040
off: 0.38
sig: 0.006
6363.7760
off: 0.38
sig: 0.013
6553.6100
off: 0.43
sig: 0.049
6923.2100
off: 0.38
sig: 0.029
6949.0300
off: 0.45
sig: 0.026
7571.7500
off: 0.43
sig: 0.024
7794.1200
off: 0.27
sig: 0.012
7821.5100
off: 0.30
sig: 0.010
8399.1600
off: 0.34
sig: 0.009
8430.1700
off: 0.33
sig: 0.008
8885.8300
off: 0.32
sig: 0.008
8919.6100
off: 0.32
sig: 0.008

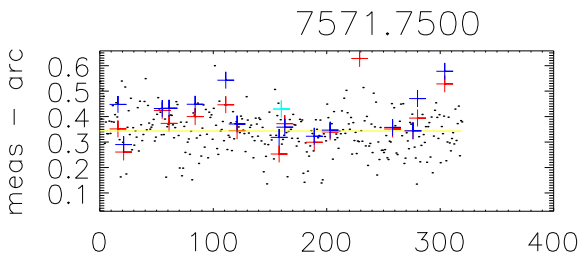

6300.3040
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

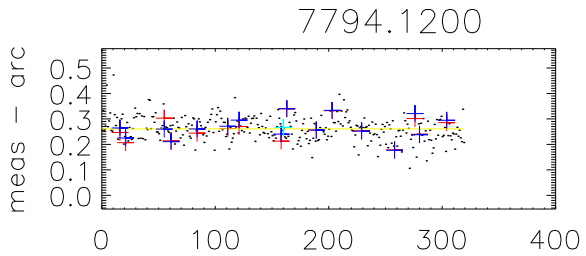

6363.7760
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

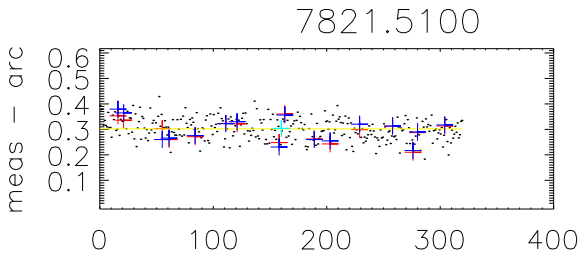

6553.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

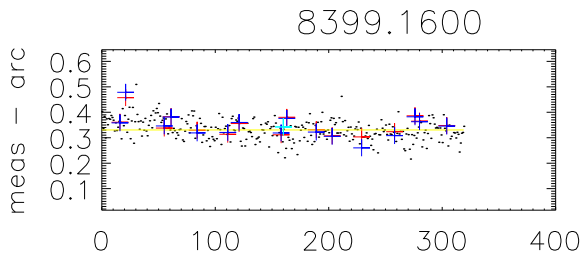

6923.2100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

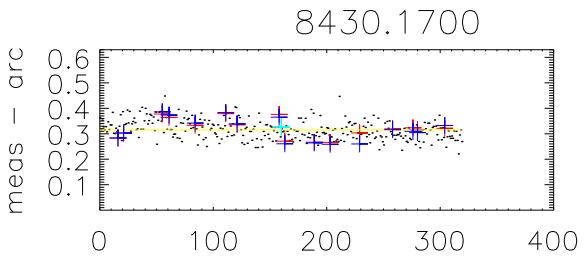

6949.0300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

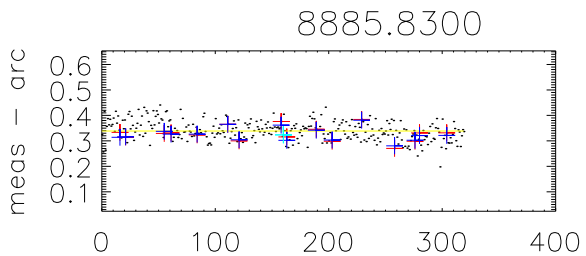

7571.7500
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

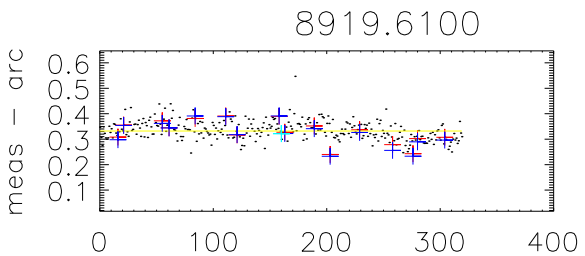

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

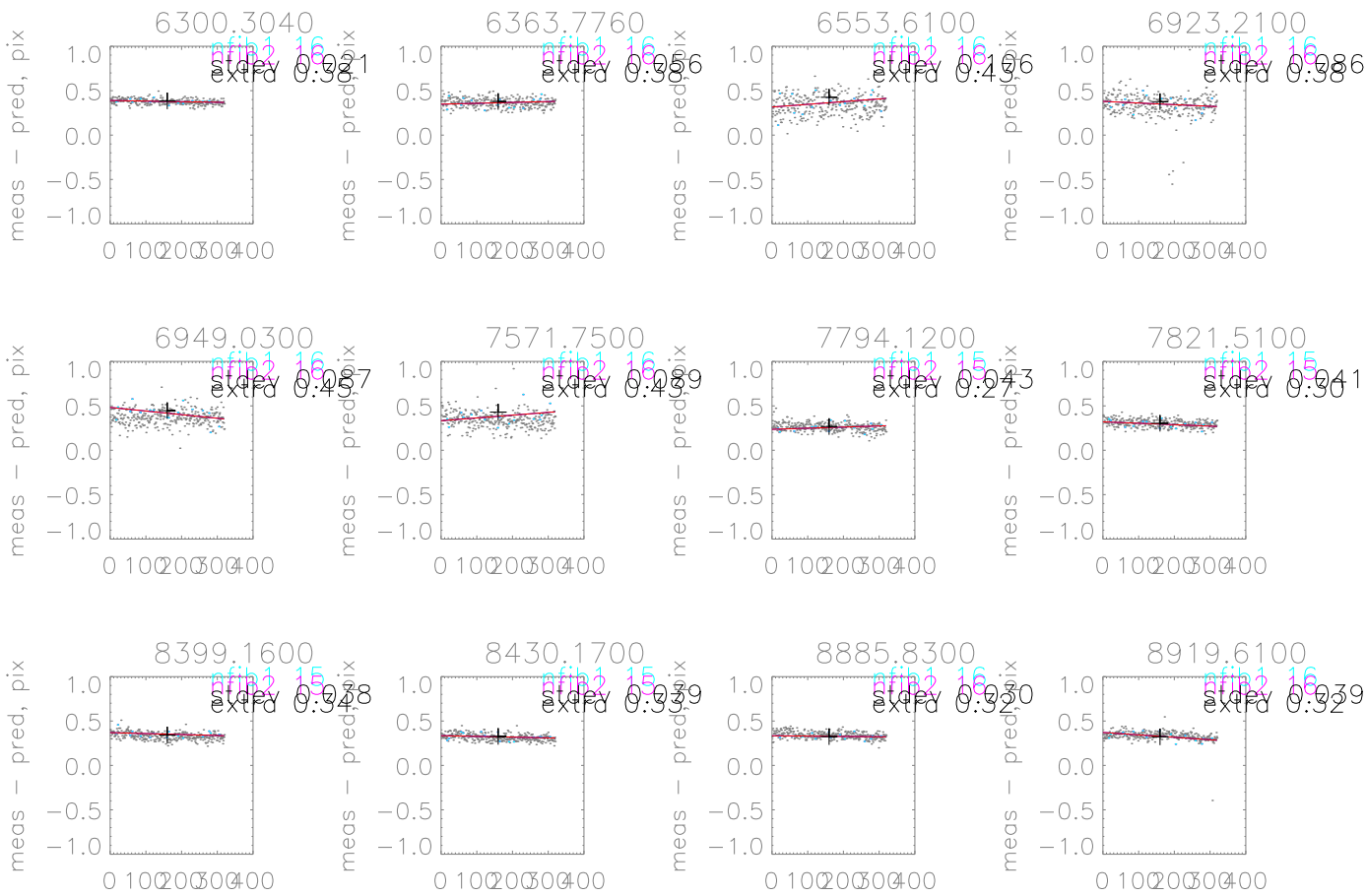

7821.5100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

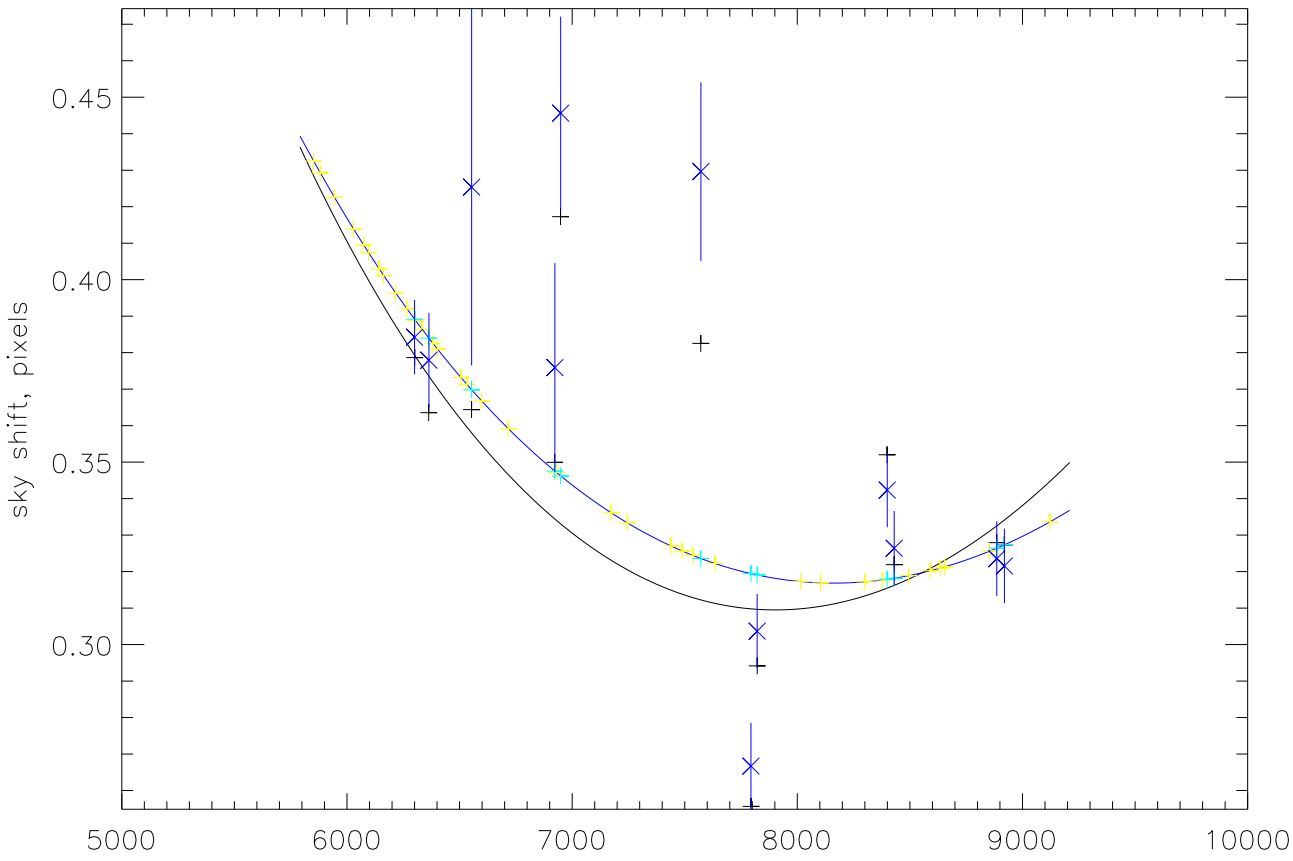

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

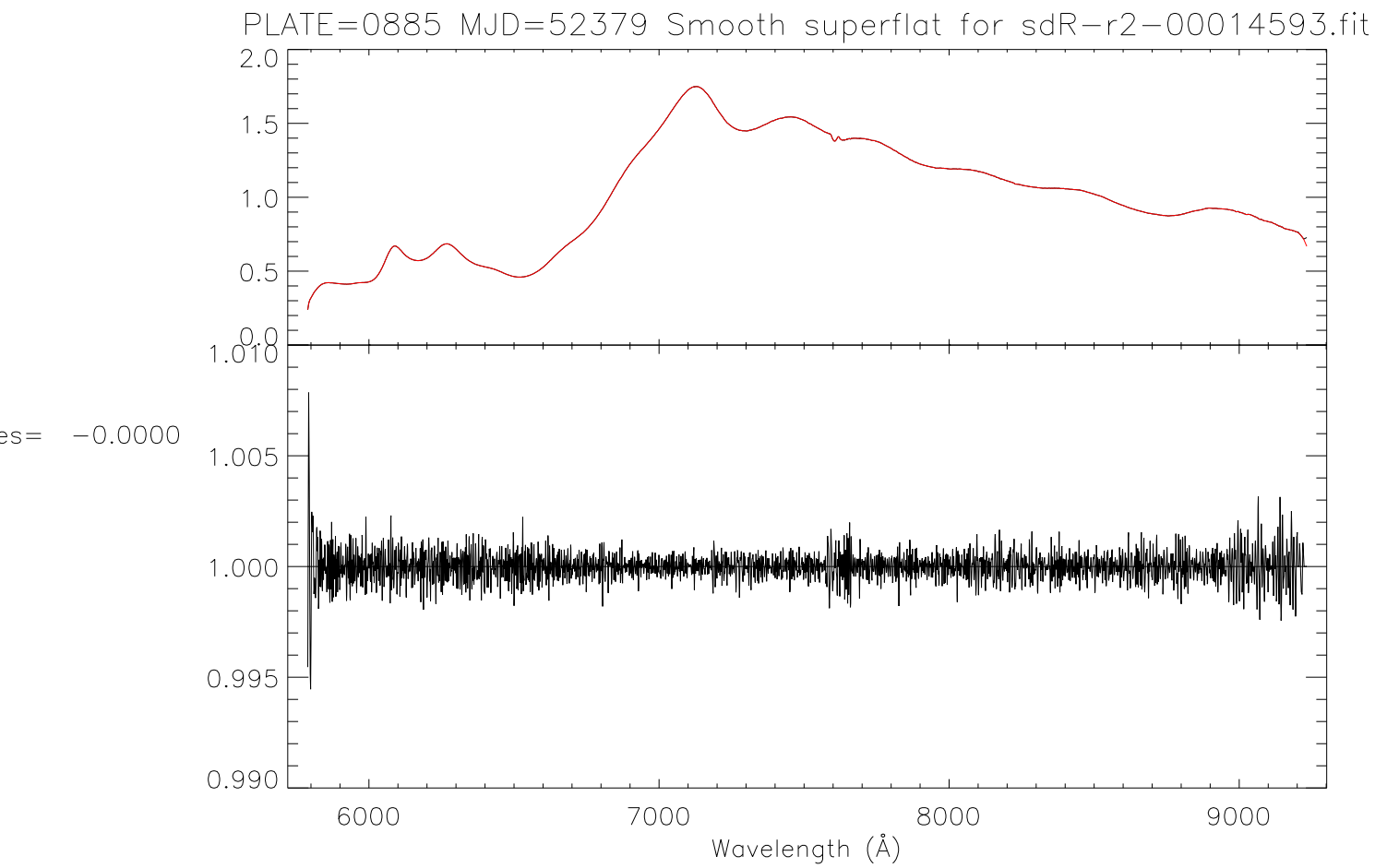

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

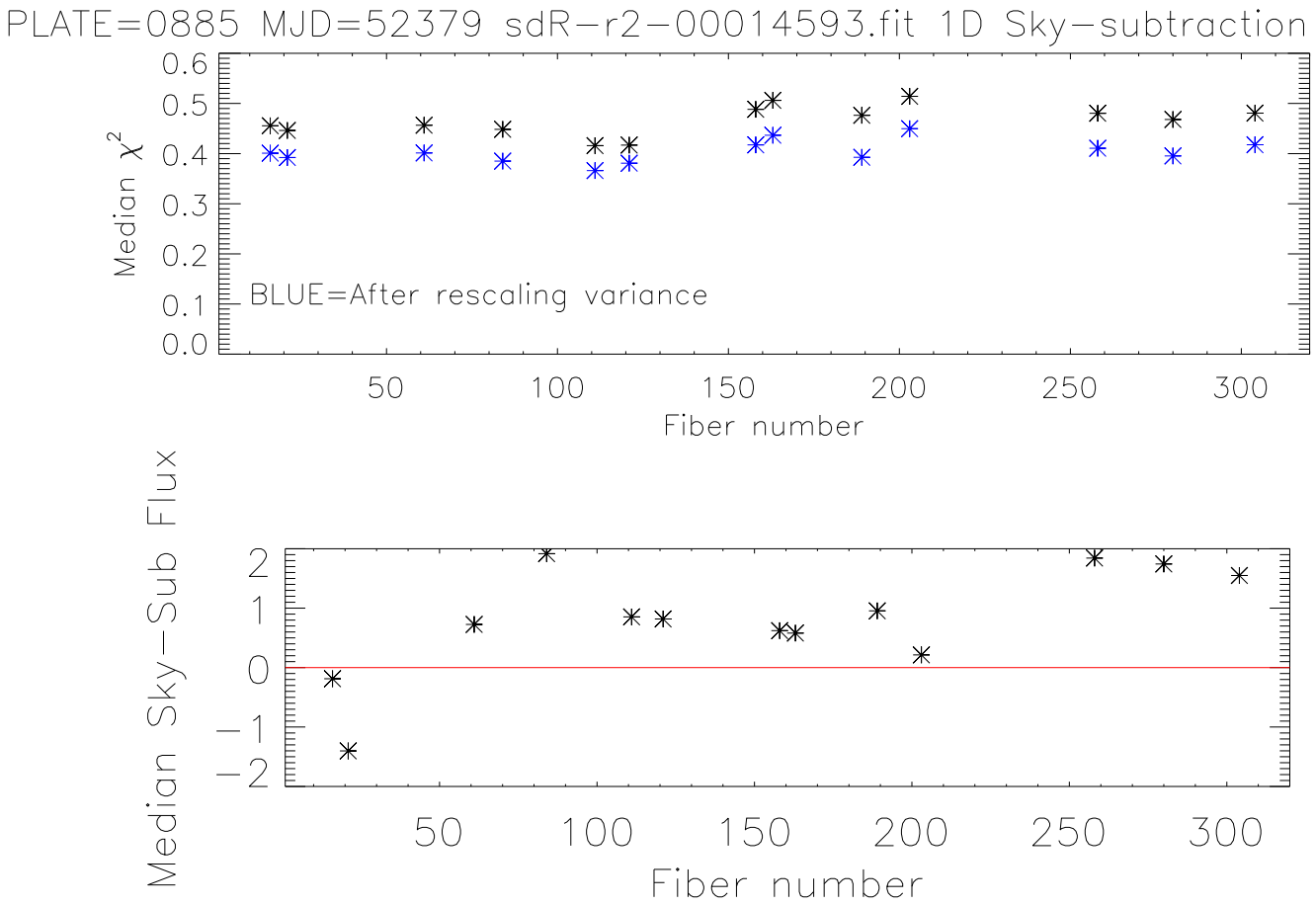

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

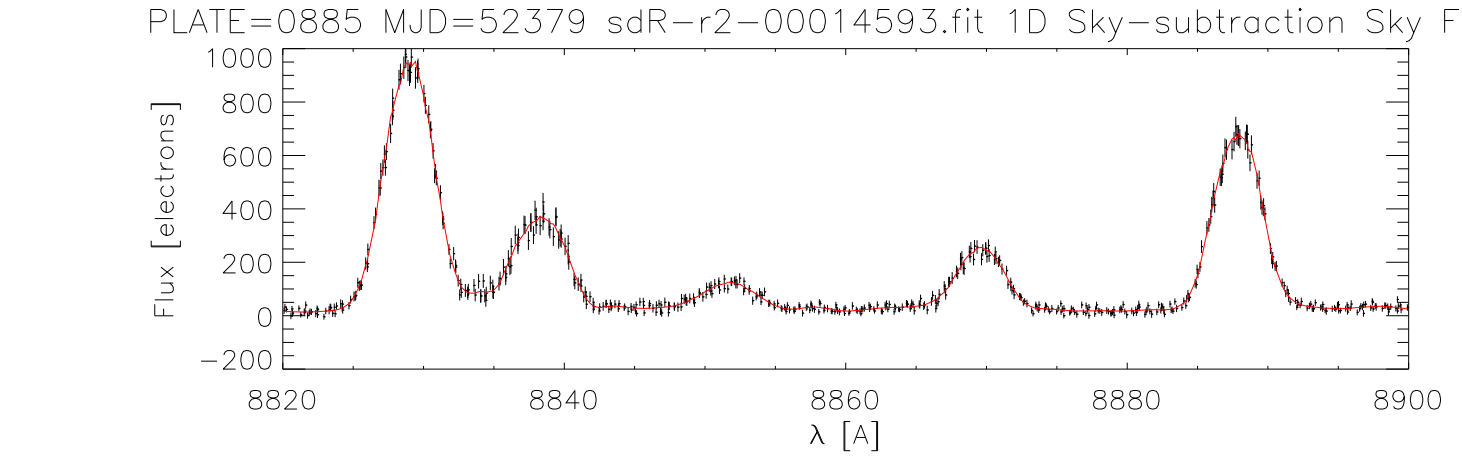

6300.3040
stdev 0.021
extra 0.38
6363.7760
stdev 0.056
extra 0.38
6553.6100
stdev 0.106
extra 0.43
6923.2100
stdev 0.086
extra 0.38
6949.0300
stdev 0.087
extra 0.45
7571.7500
stdev 0.089
extra 0.43
7794.1200
stdev 0.043
extra 0.27
7821.5100
stdev 0.041
extra 0.30
8399.1600
stdev 0.078
extra 0.34
8430.1700
stdev 0.079
extra 0.33
8885.8300
stdev 0.030
extra 0.32
8919.6100
stdev 0.039
extra 0.32
meas − pred, pix

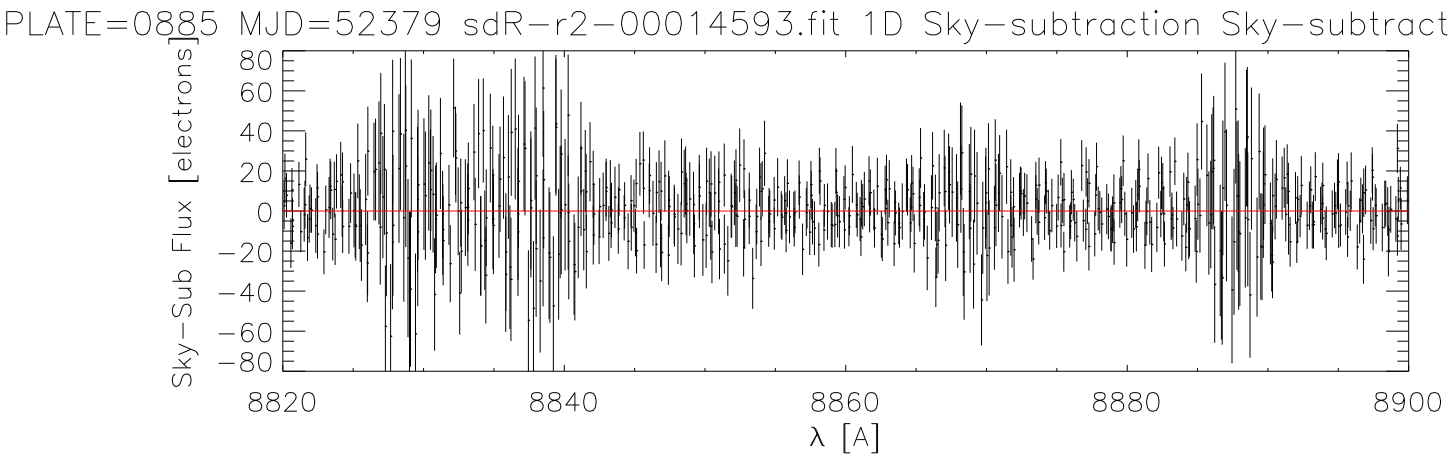

sky shift, pixels
0.45
0.40
0.35
0.30
5000
6000
7000
8000
9000
10000

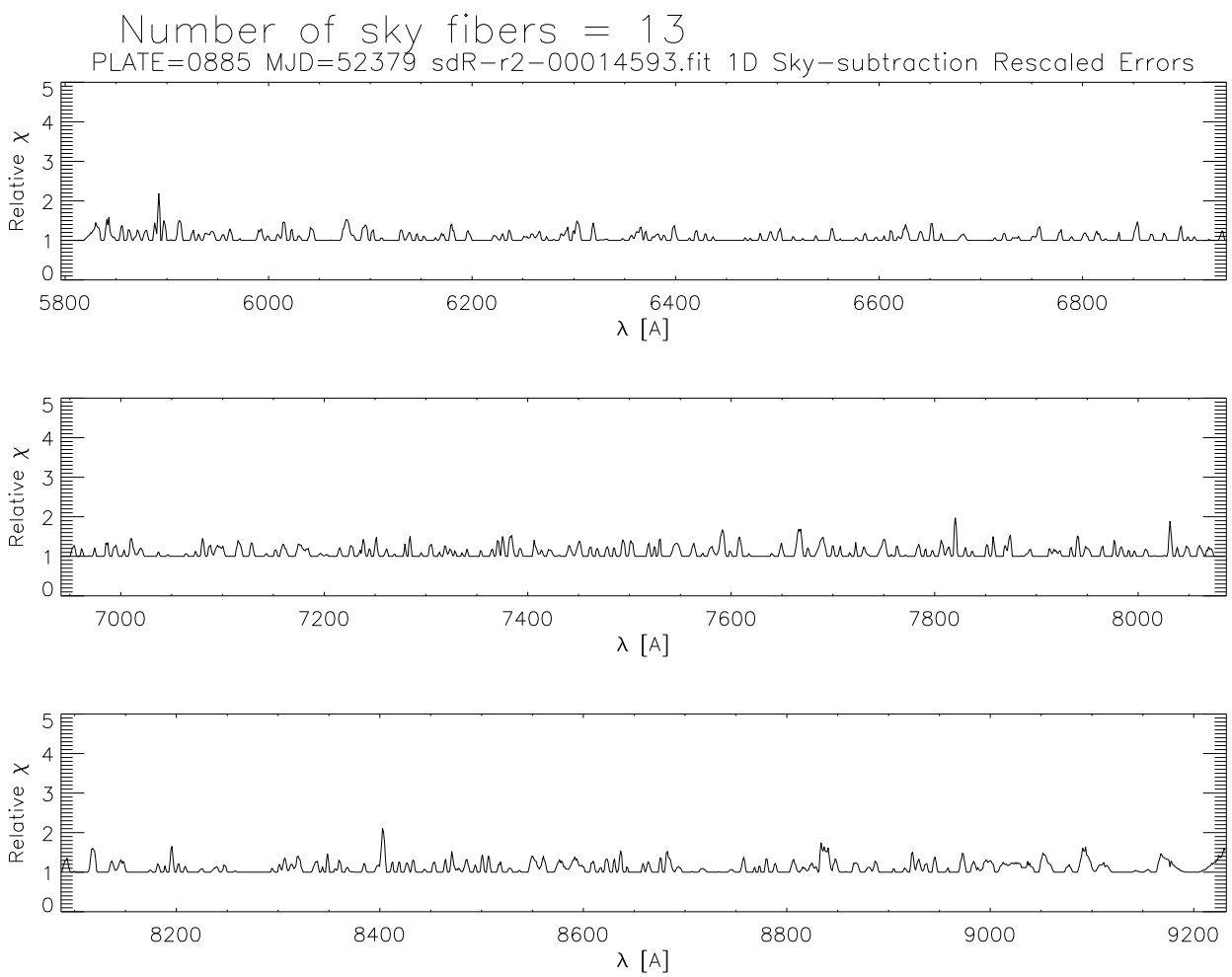

PLATE=0885 MJD=52379 Smooth superflat for sdR-r2-00014593.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

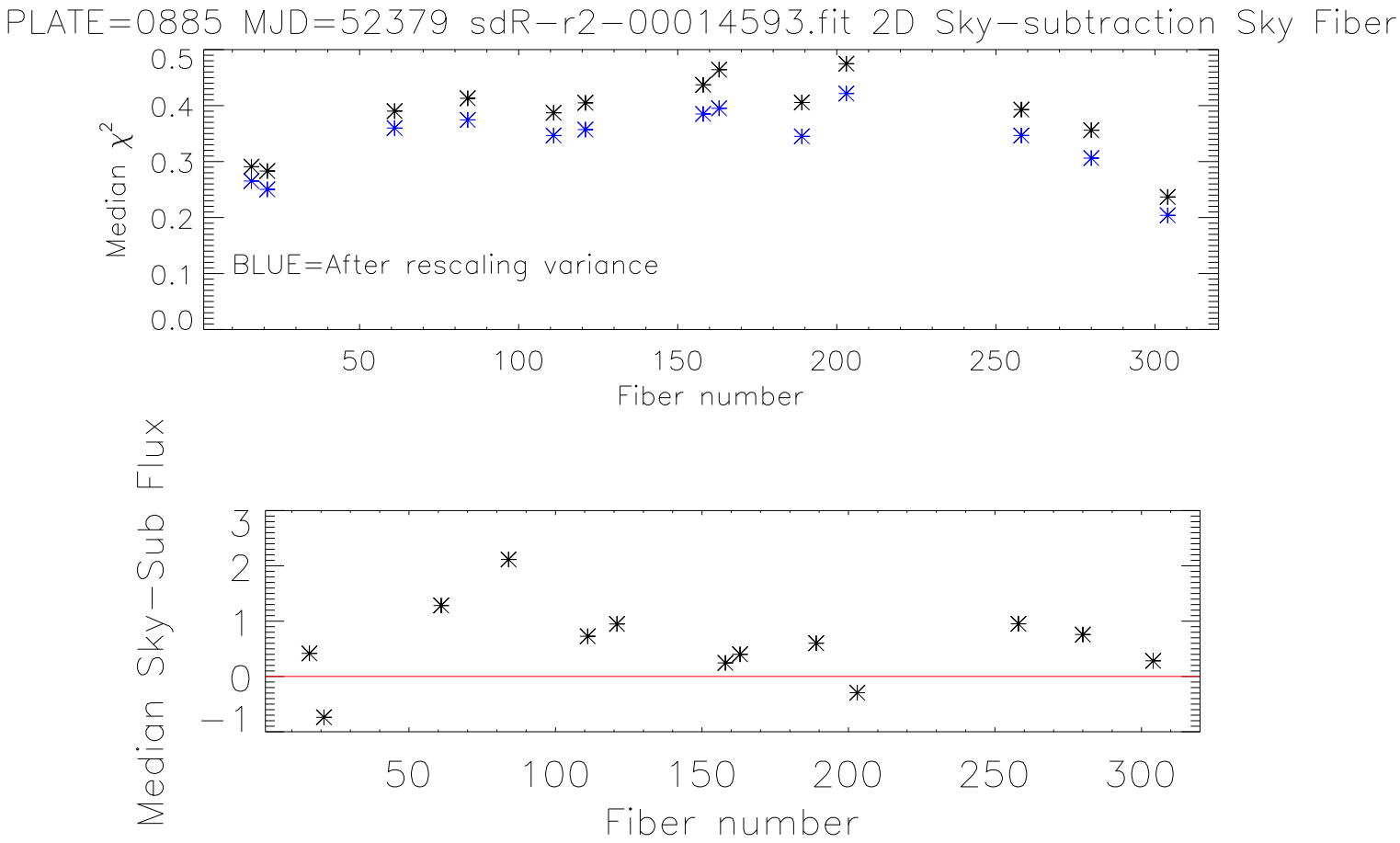
es= −0.0000

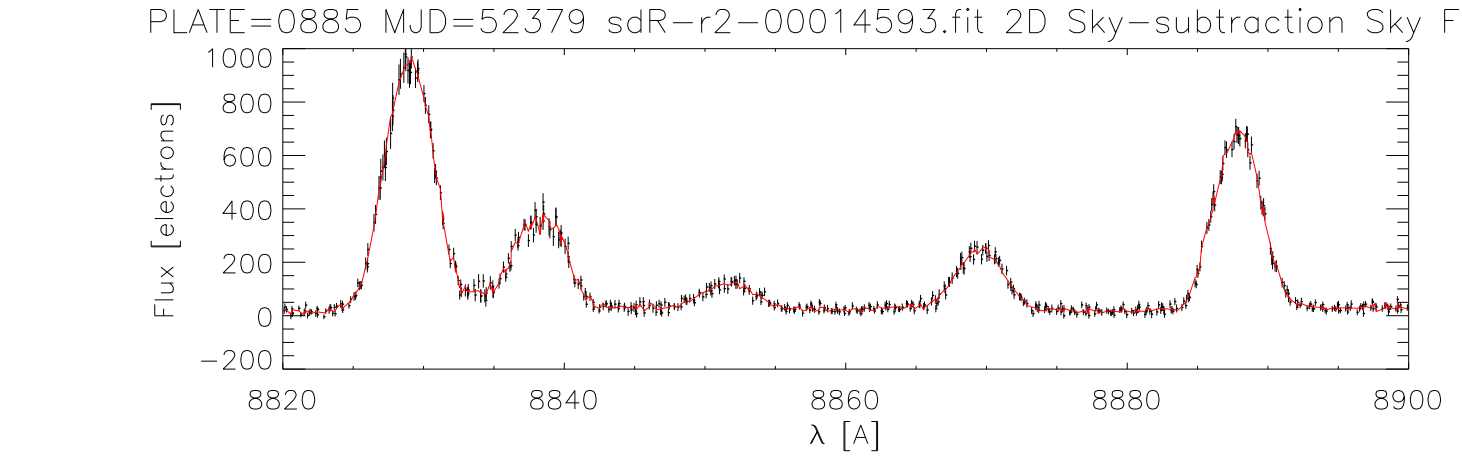

PLATE=0885 MJD=52379 sdR-r2-00014593.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

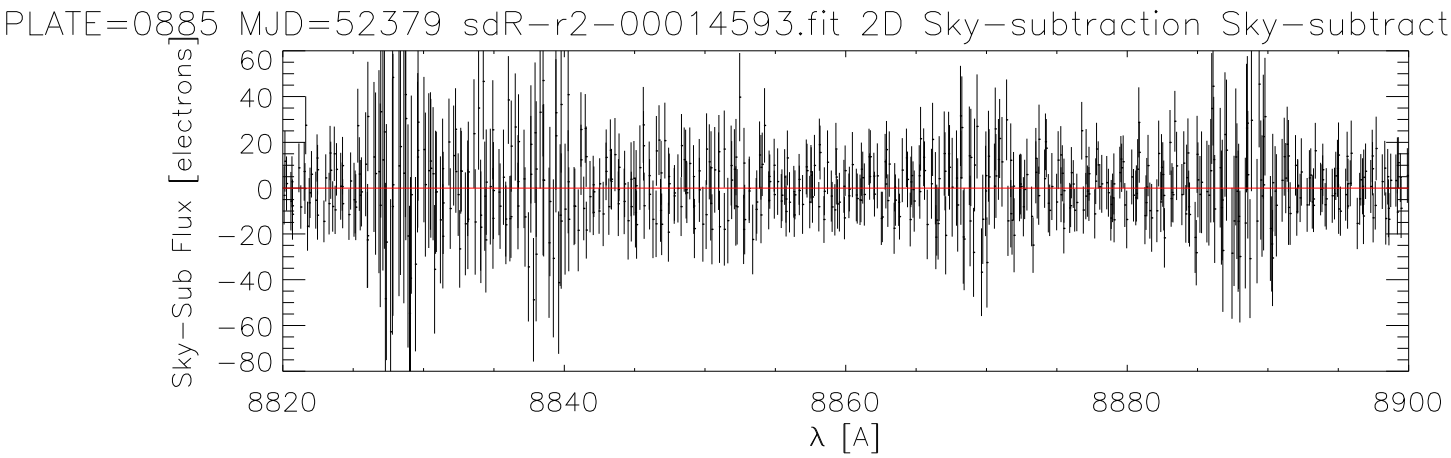

PLATE=0885 MJD=52379 sdR-r2-00014593.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

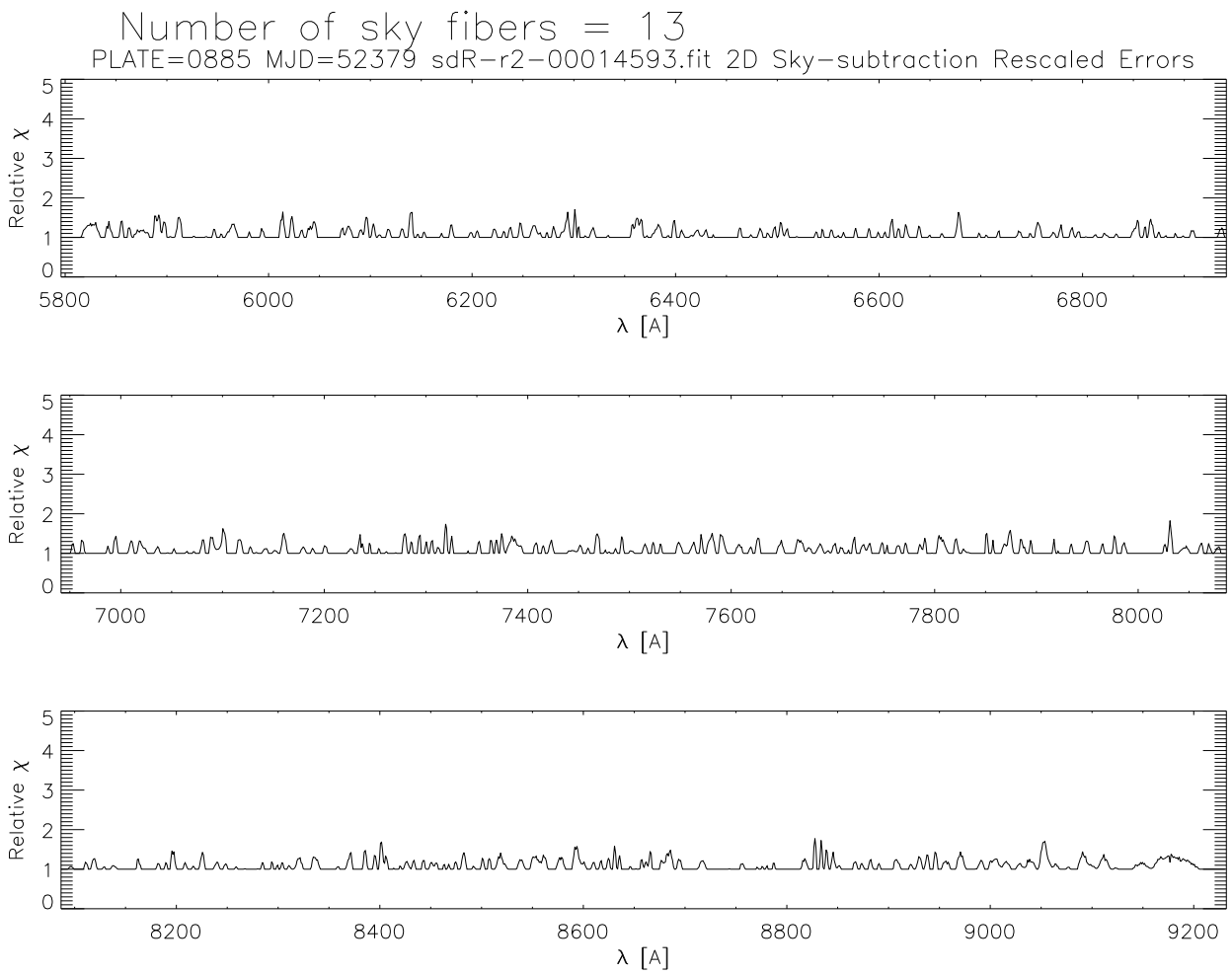

PLATE=0885 MJD=52379 sdR-r2-00014593.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
-20
-40
-60
-80
8820
8840
8860
8880
8900
λ [A]

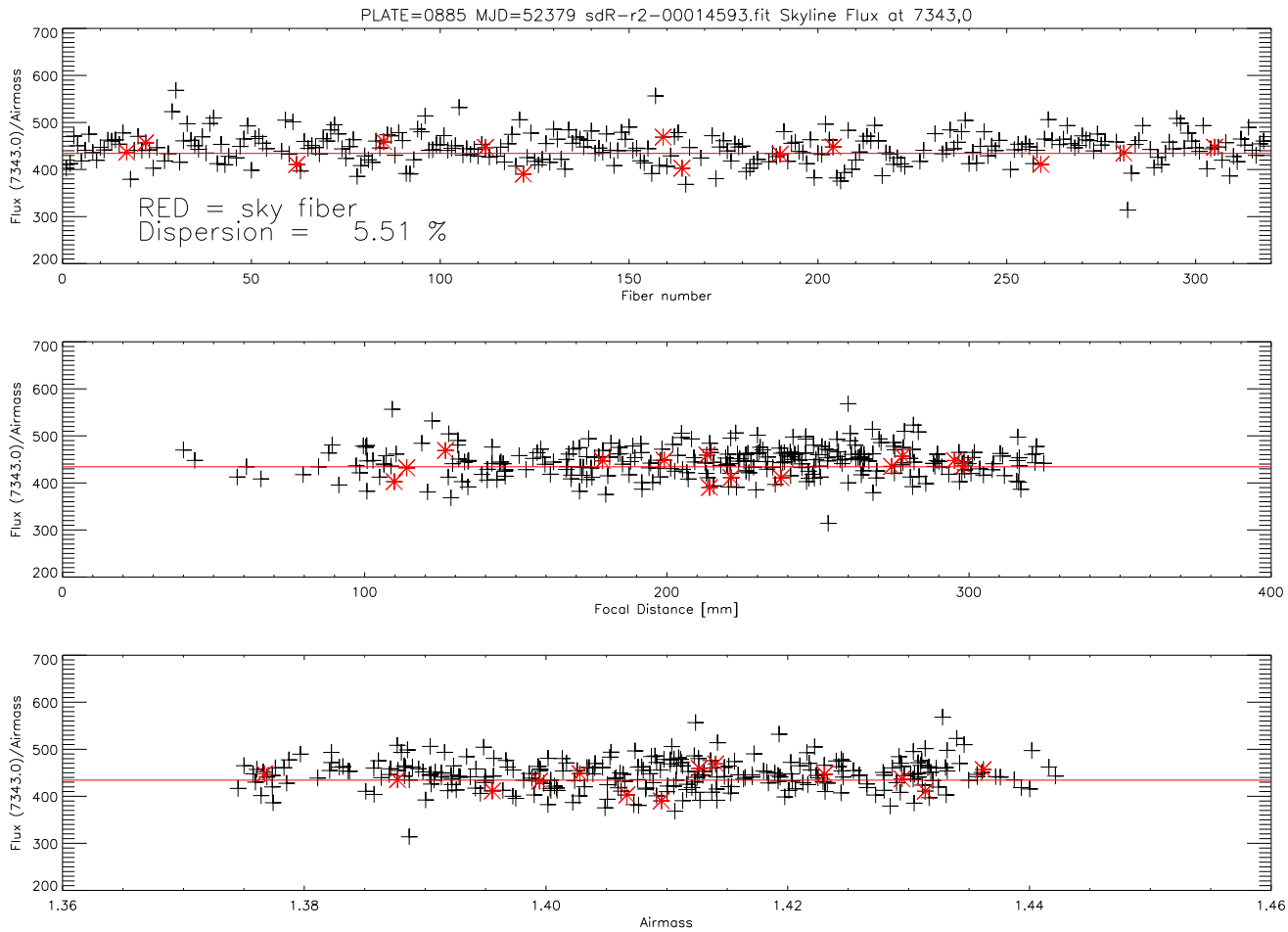

Number of sky fibers = 13
PLATE=0885 MJD=52379 sdR-r2-00014593.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

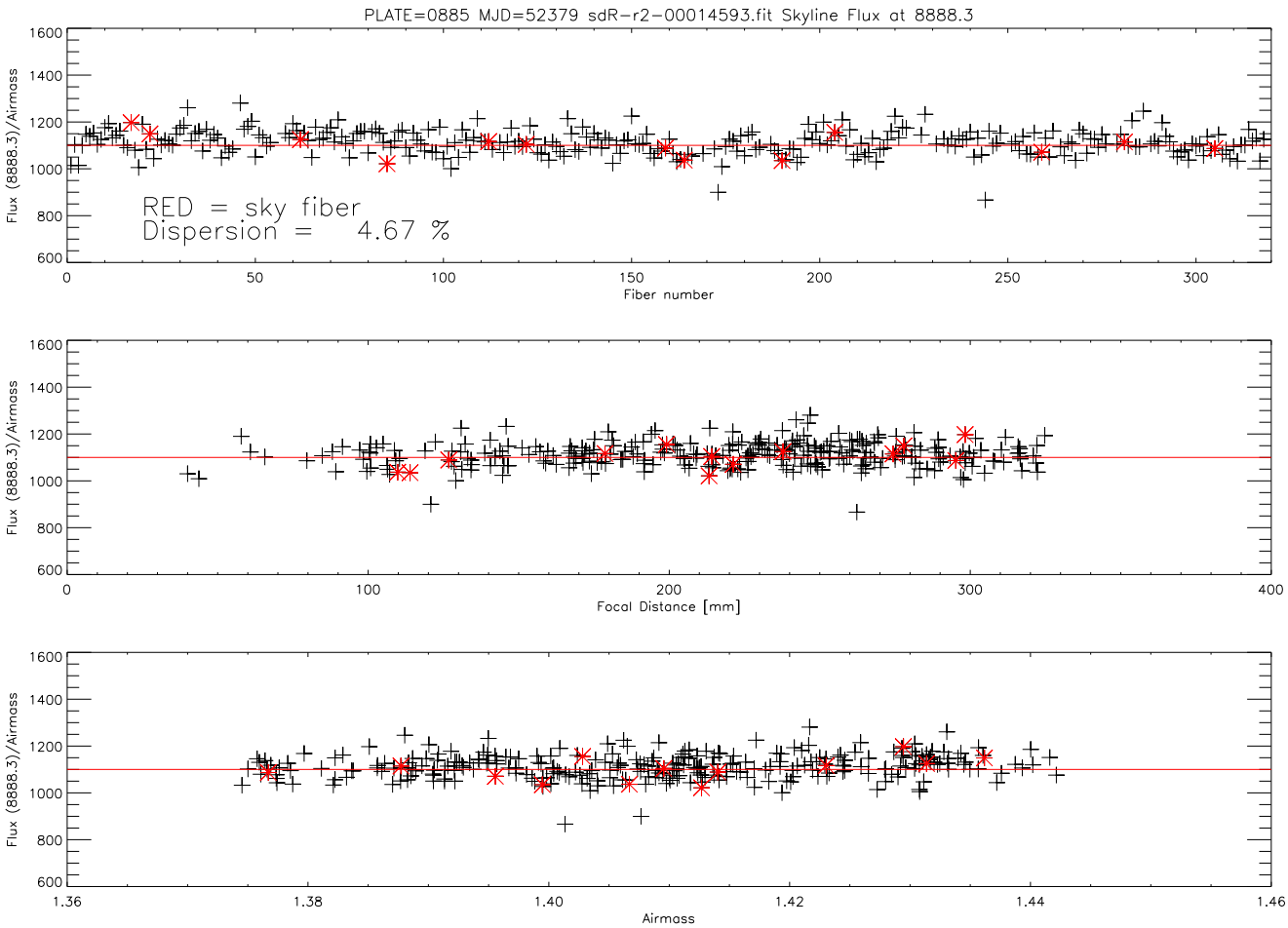

PLATE=0885 MJD=52379 sdR-r2-00014593.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0885 MJD=52379 sdR-r2-00014593.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]


PLATE=0885 MJD=52379 sdR-r2-00014593.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
-20
-40
-60
-80
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 13
PLATE=0885 MJD=52379 sdR-r2-00014593.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=0885 MJD=52379 sdR-r2-00014593.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.51 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0885 MJD=52379 sdR-r2-00014593.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.67 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass