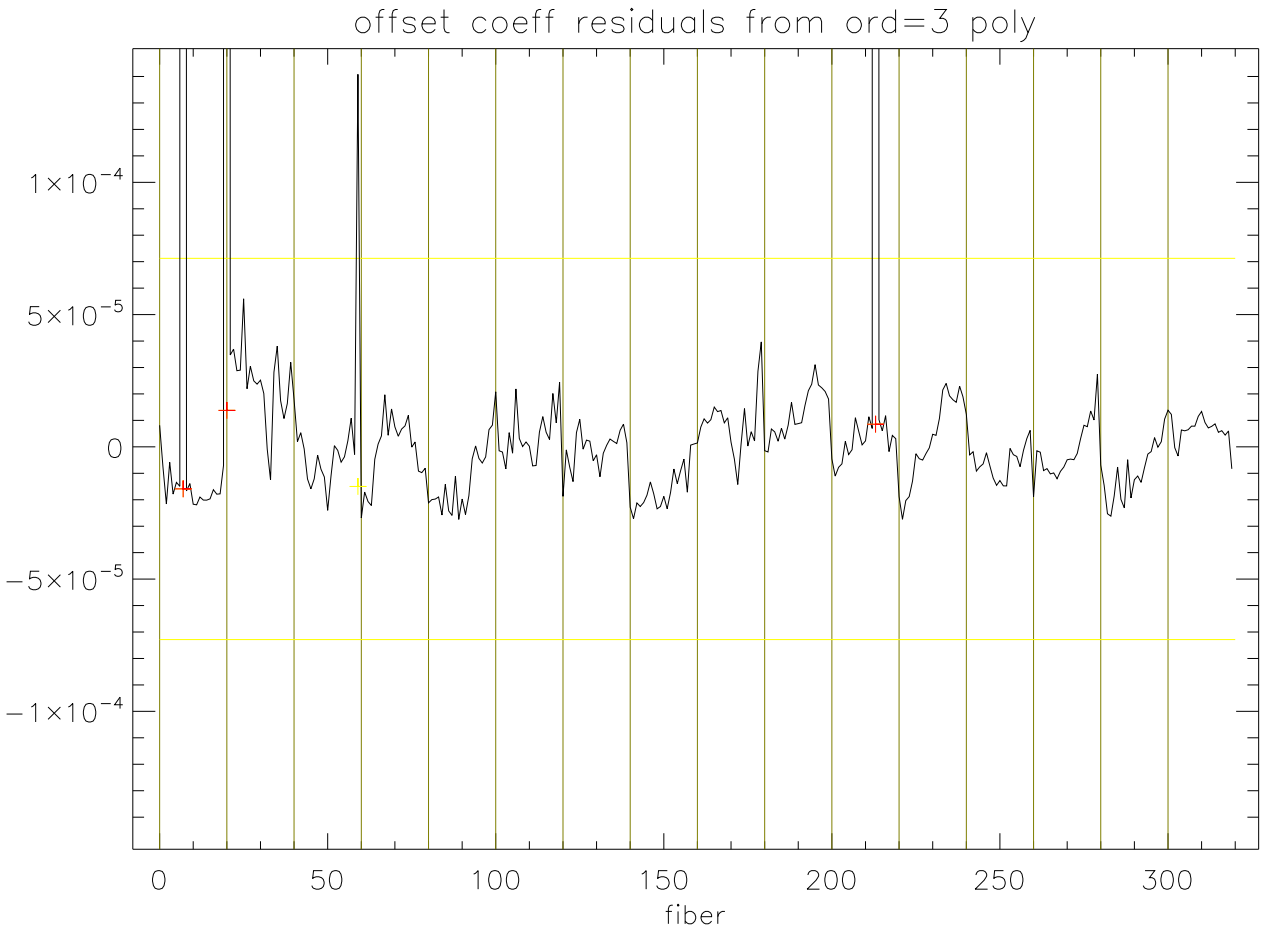
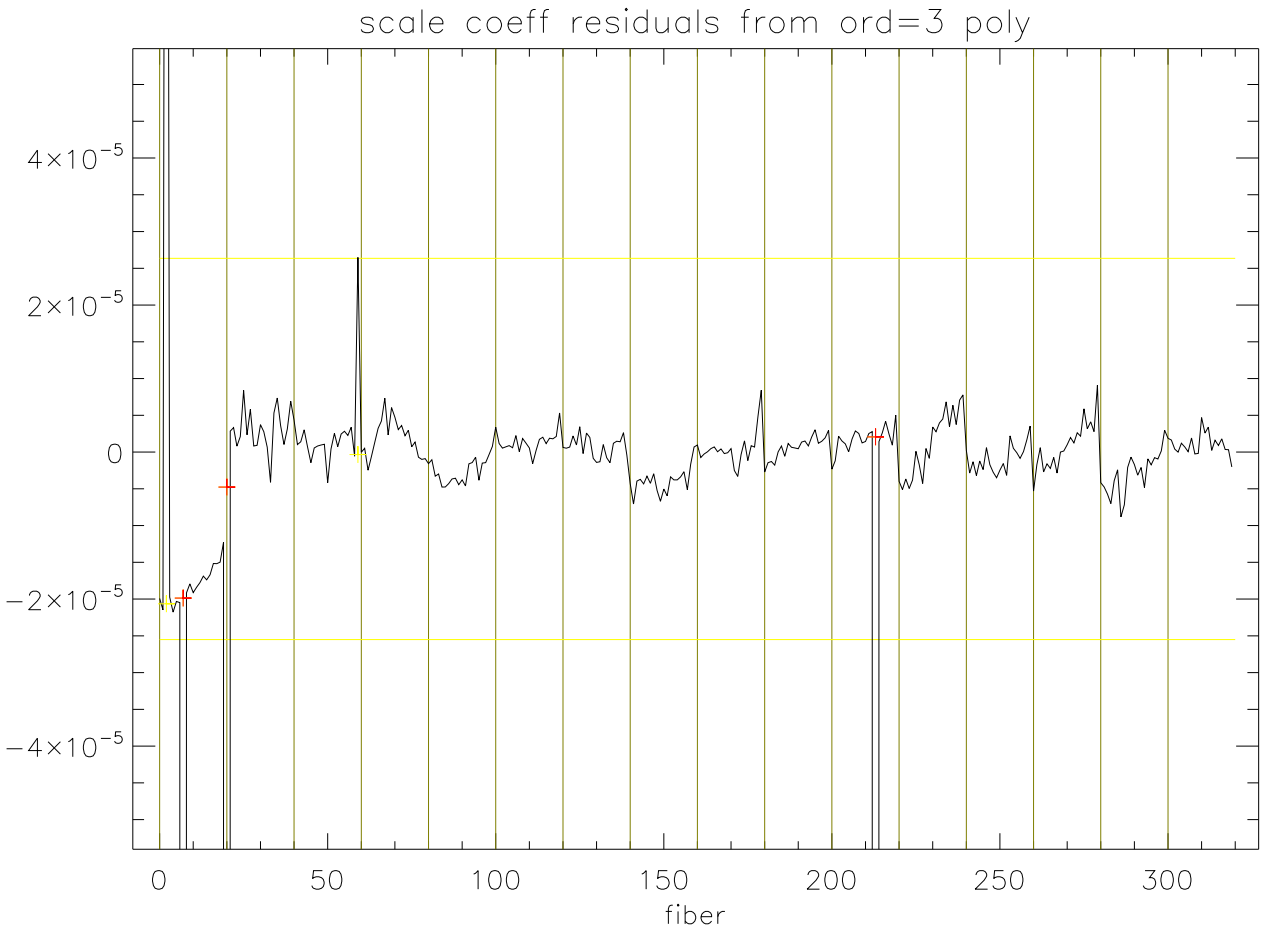
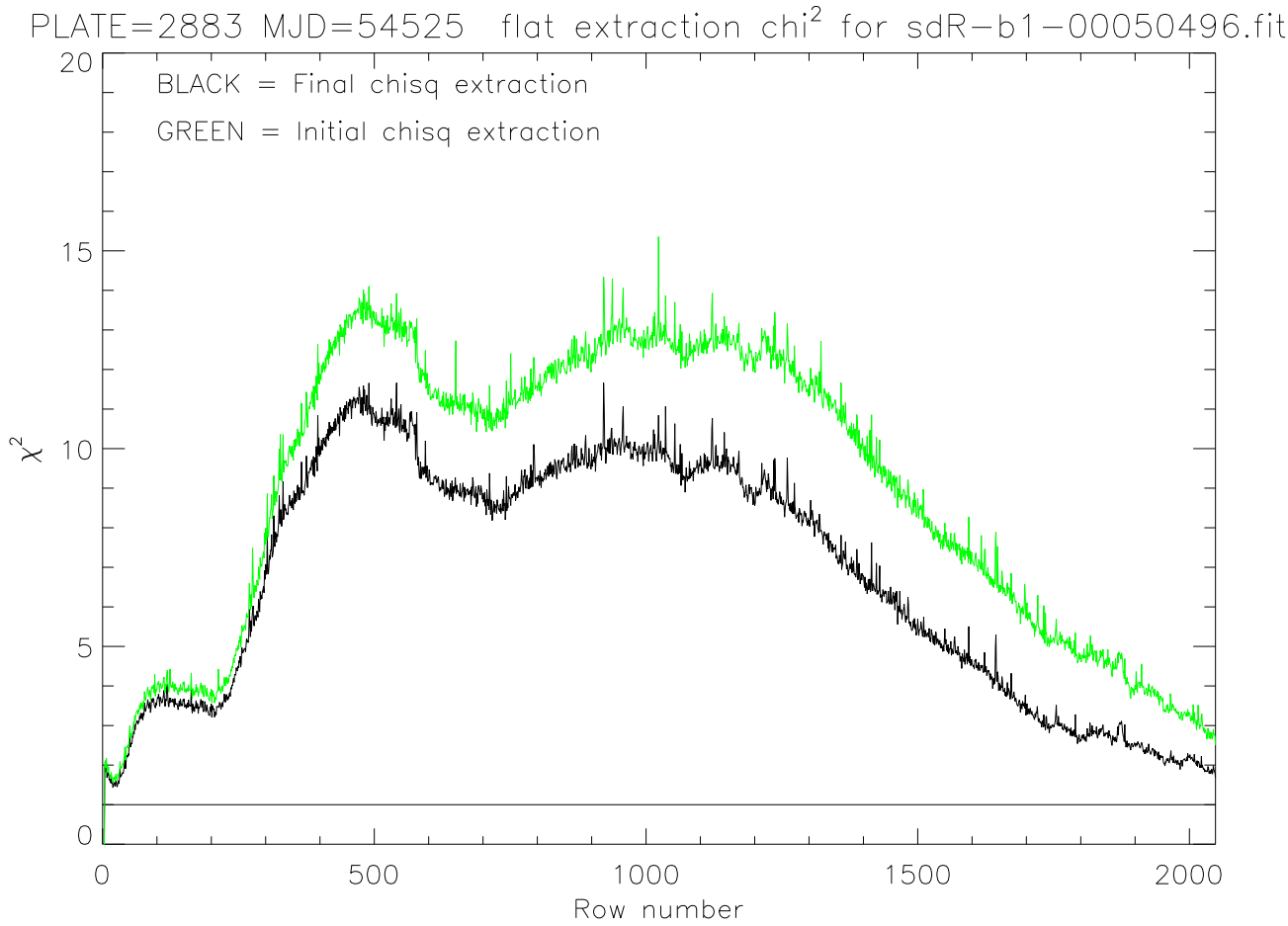
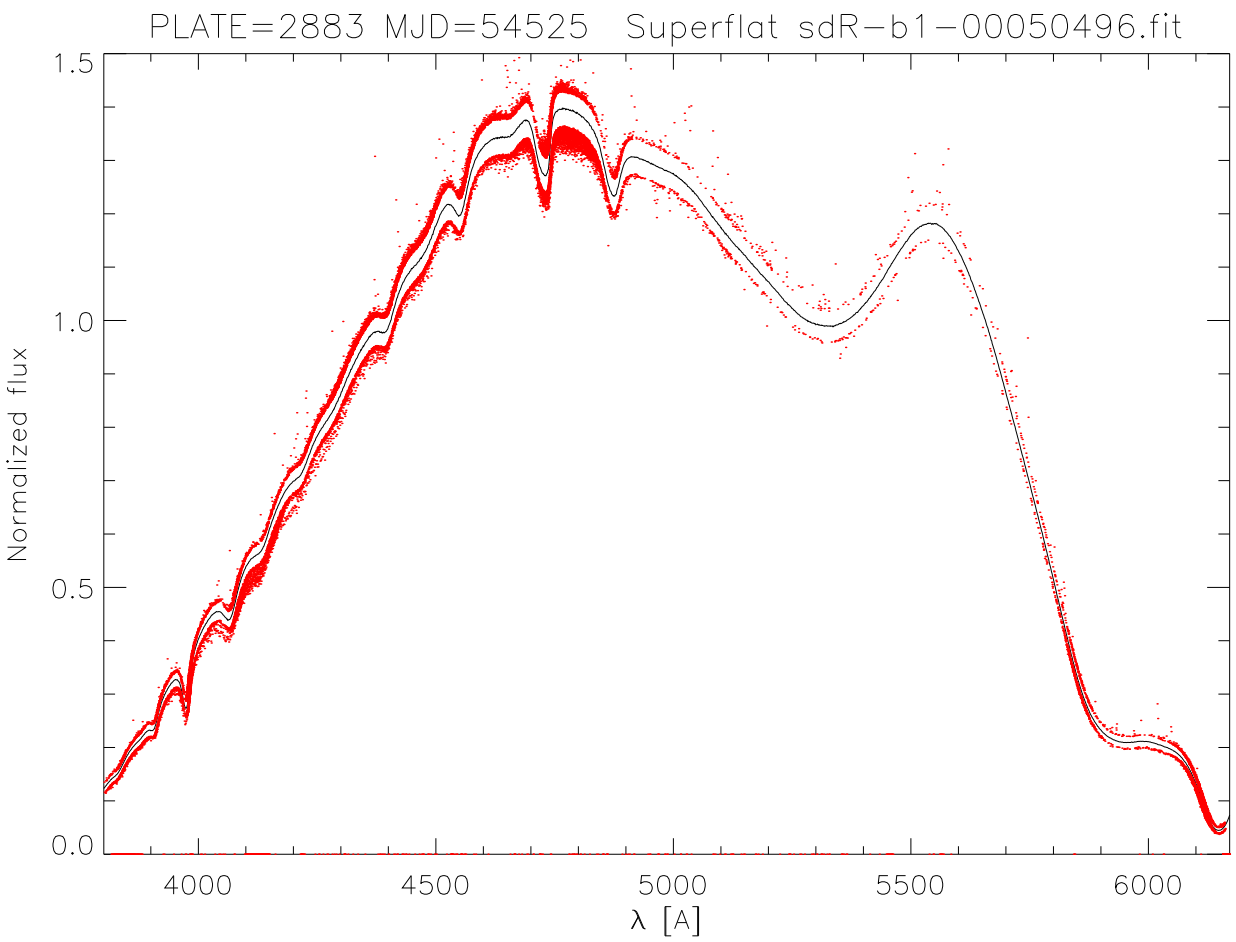
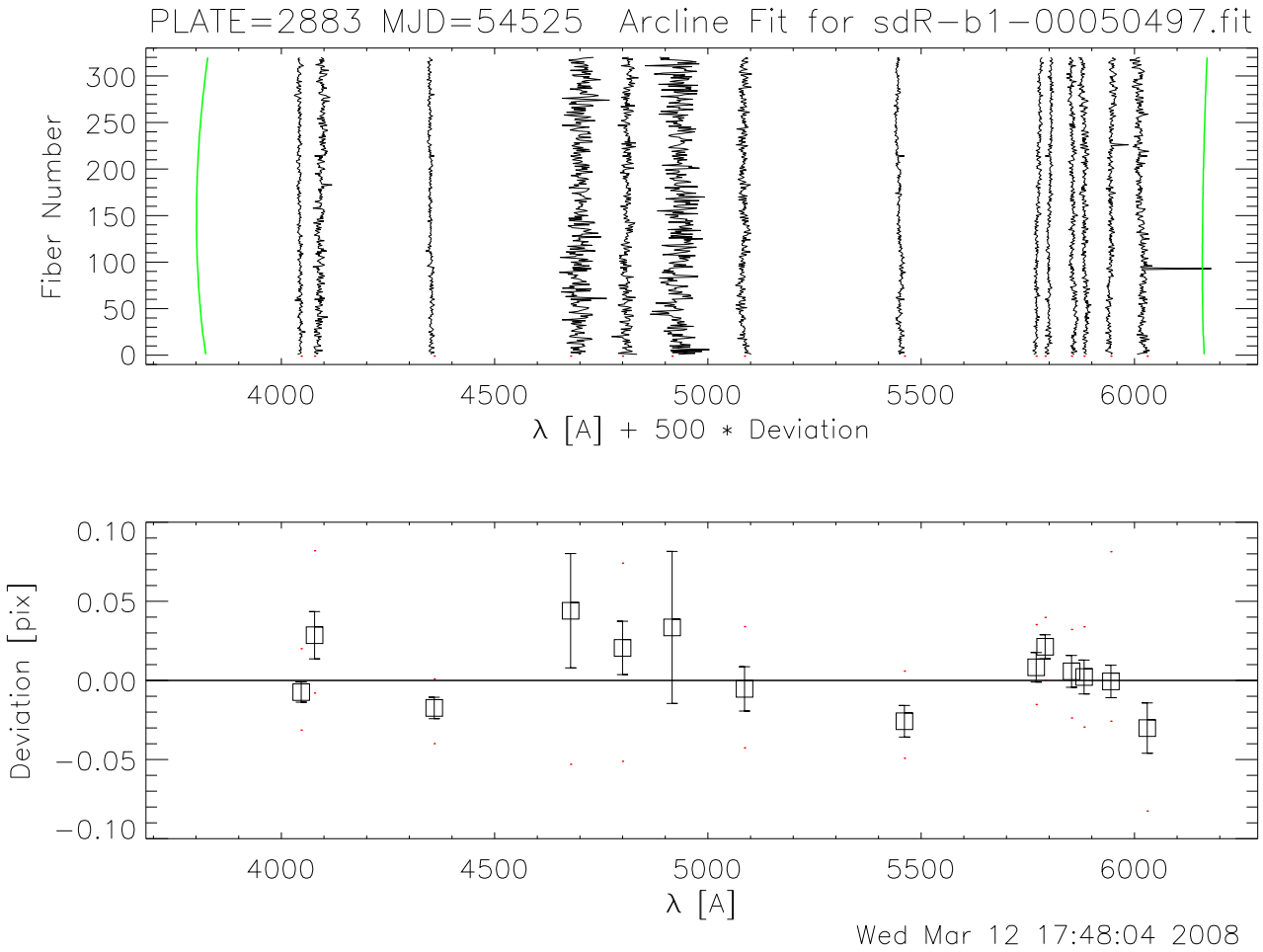

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber


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=2883 MJD=54525 flat extraction chi^2 for sdR−b1−00050496.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000


PLATE=2883 MJD=54525 Superflat sdR-b1-00050496.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]


PLATE=2883 MJD=54525 Arcline Fit for sdR-b1-00050497.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]
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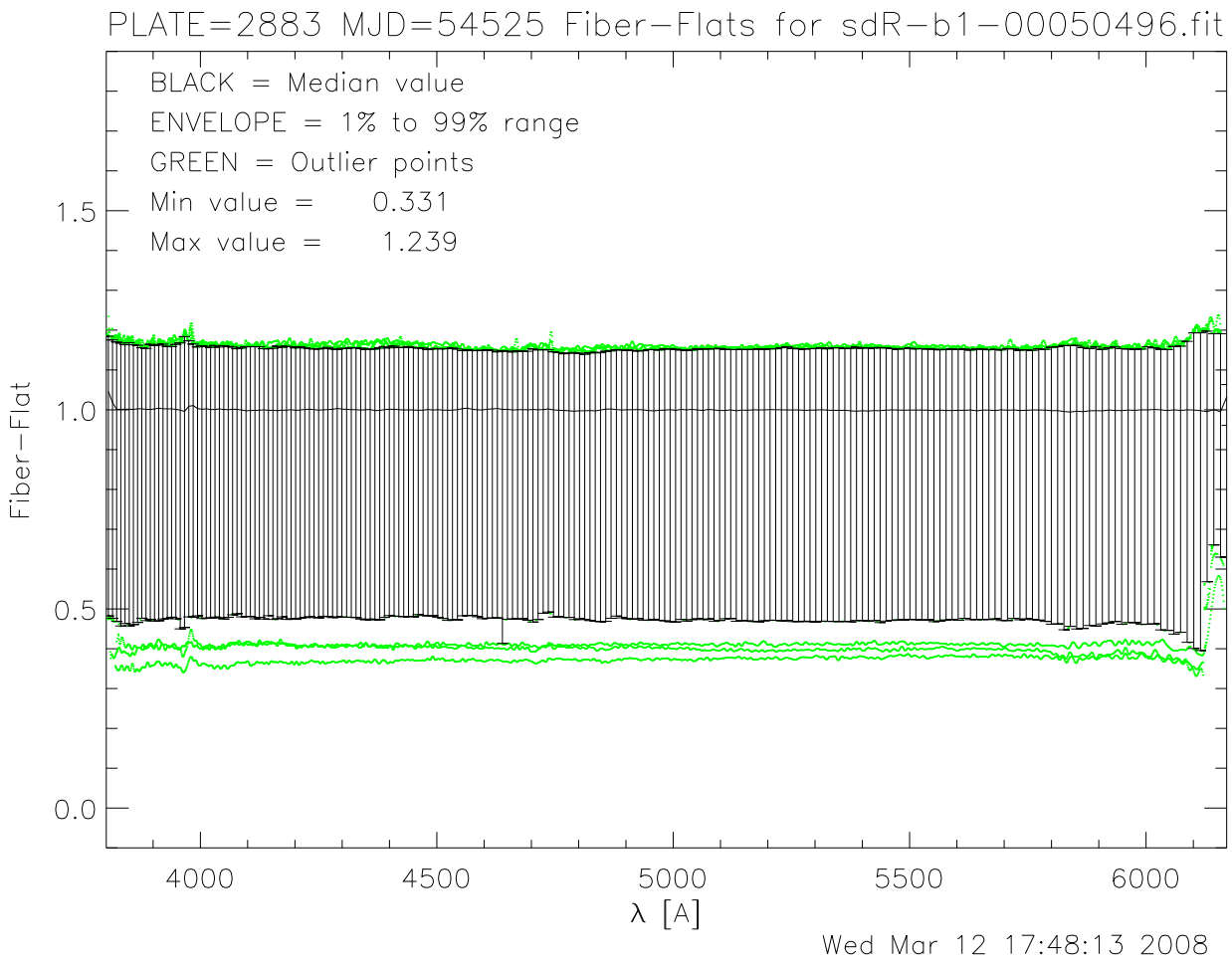
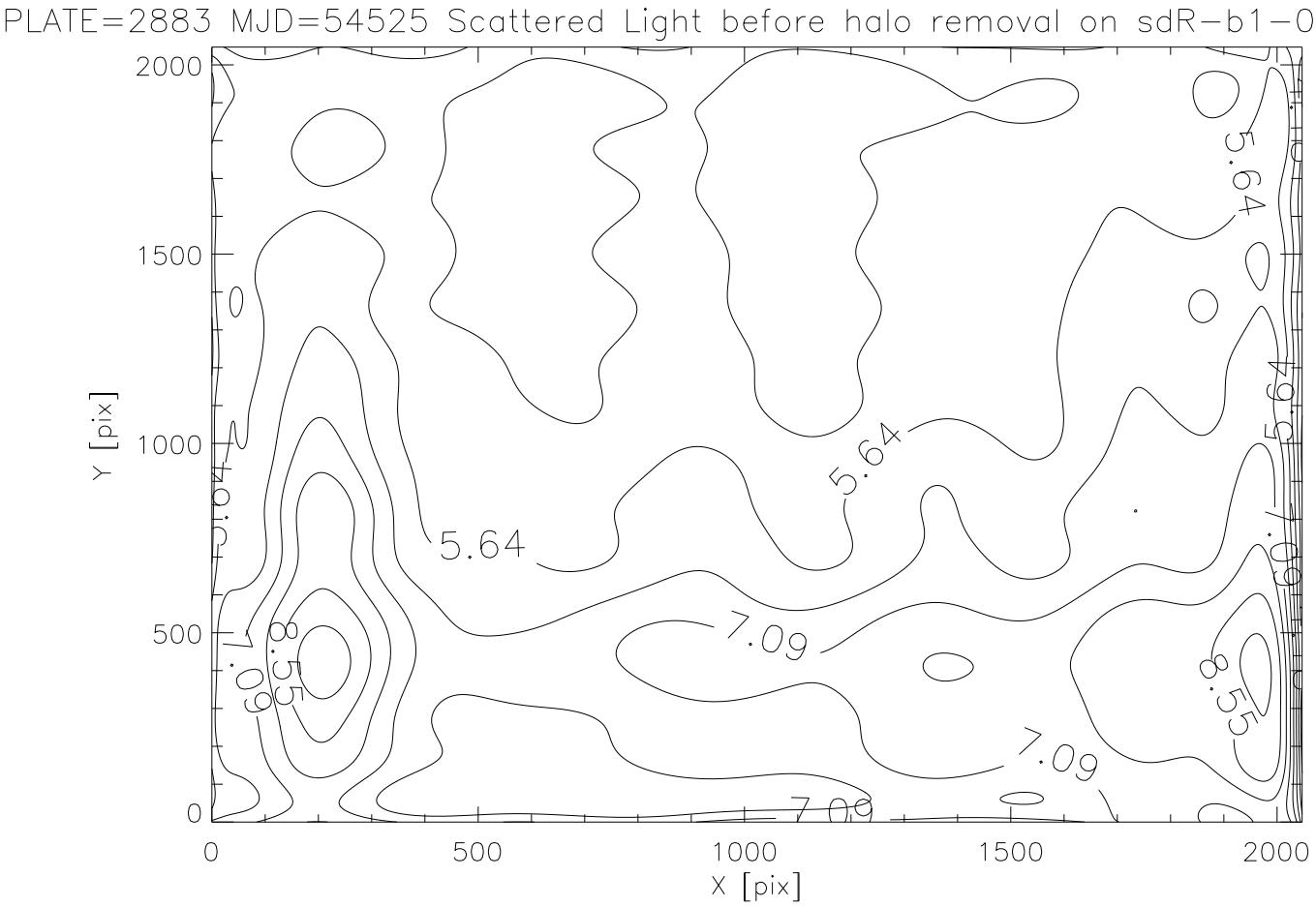
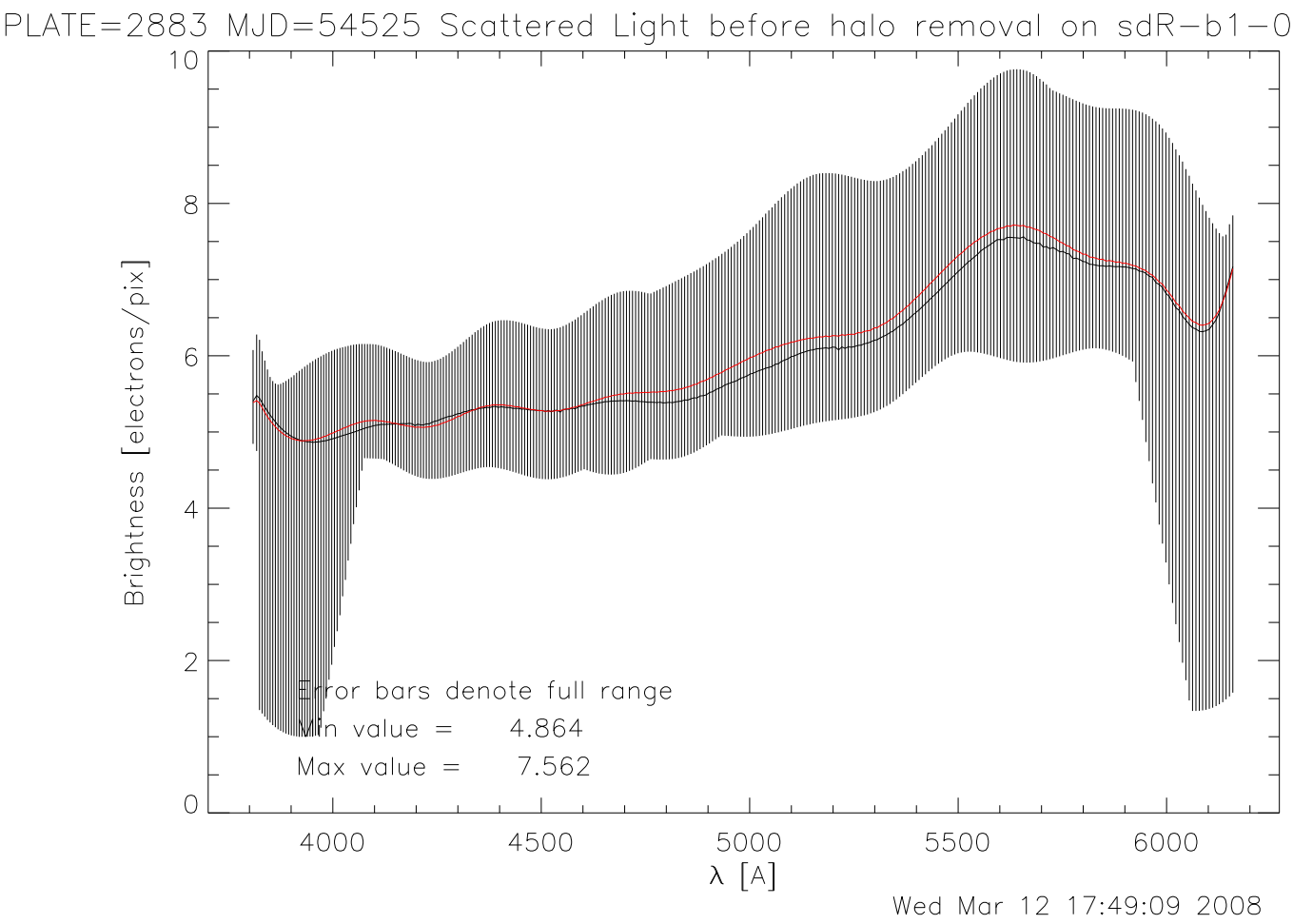
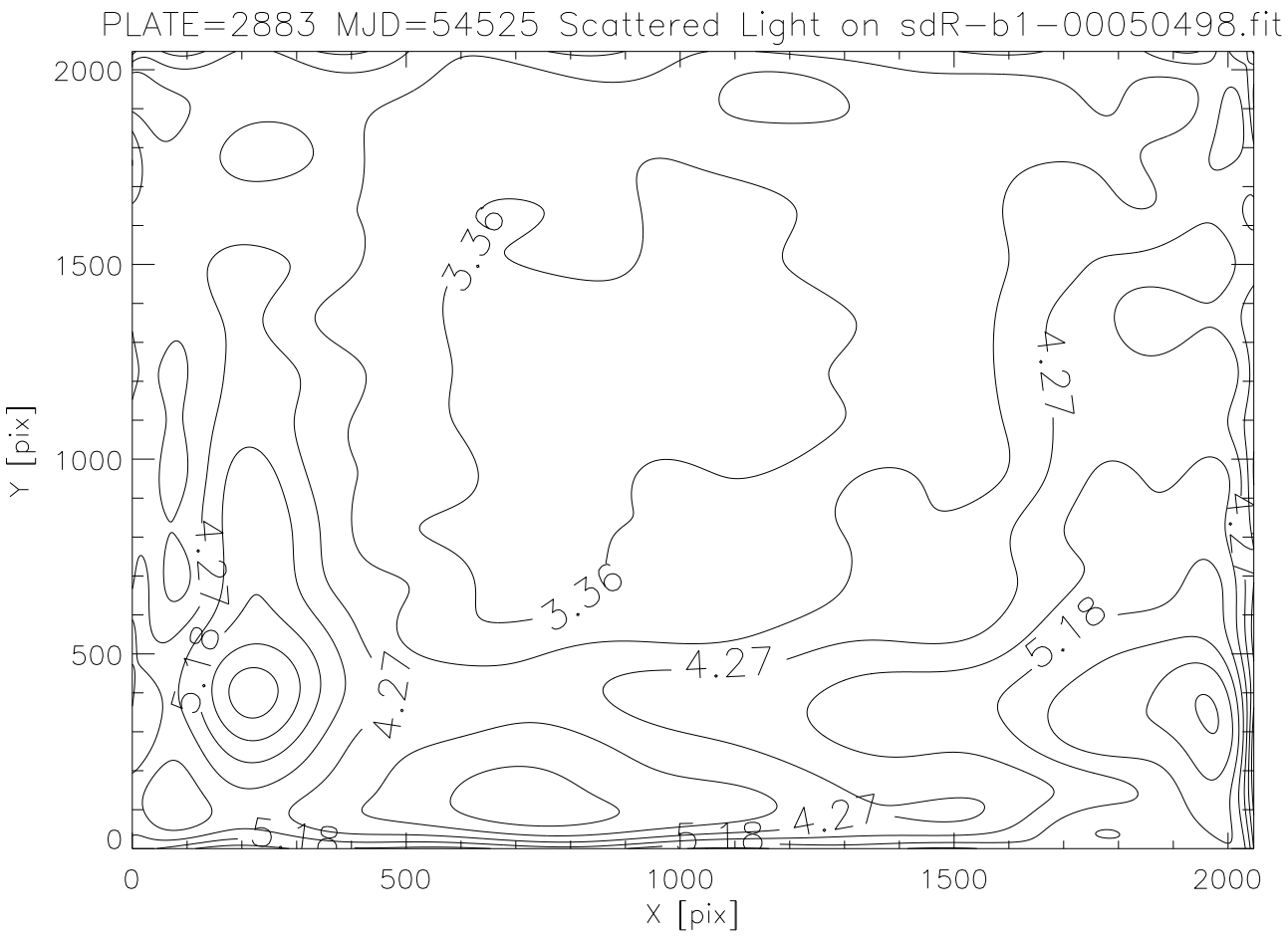
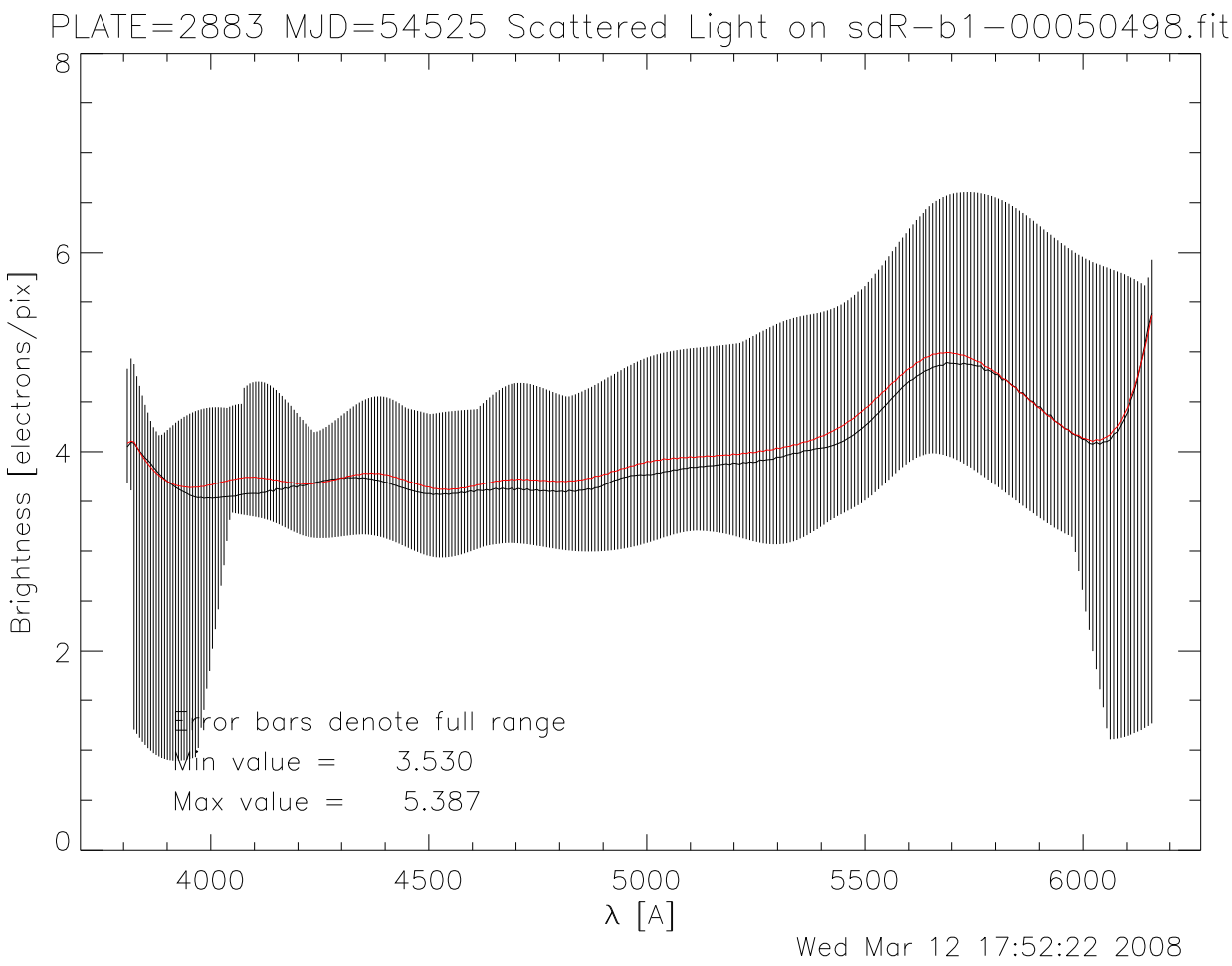

PLATE=2883 MJD=54525 Fiber-Flats for sdR-b1-00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.331
Max value = 1.239
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 17:48:13 2008


PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b1-00050498.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
7.09
8.55
0


PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR−b1−00050498.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.864
Max value = 7.562
Wed Mar 12 17:49:09 2008


PLATE=2883 MJD=54525 Scattered Light on sdR-b1-00050498.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.36
4.27
5.18


PLATE=2883 MJD=54525 Scattered Light on sdR-b1-00050498.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.530
Max value = 5.387
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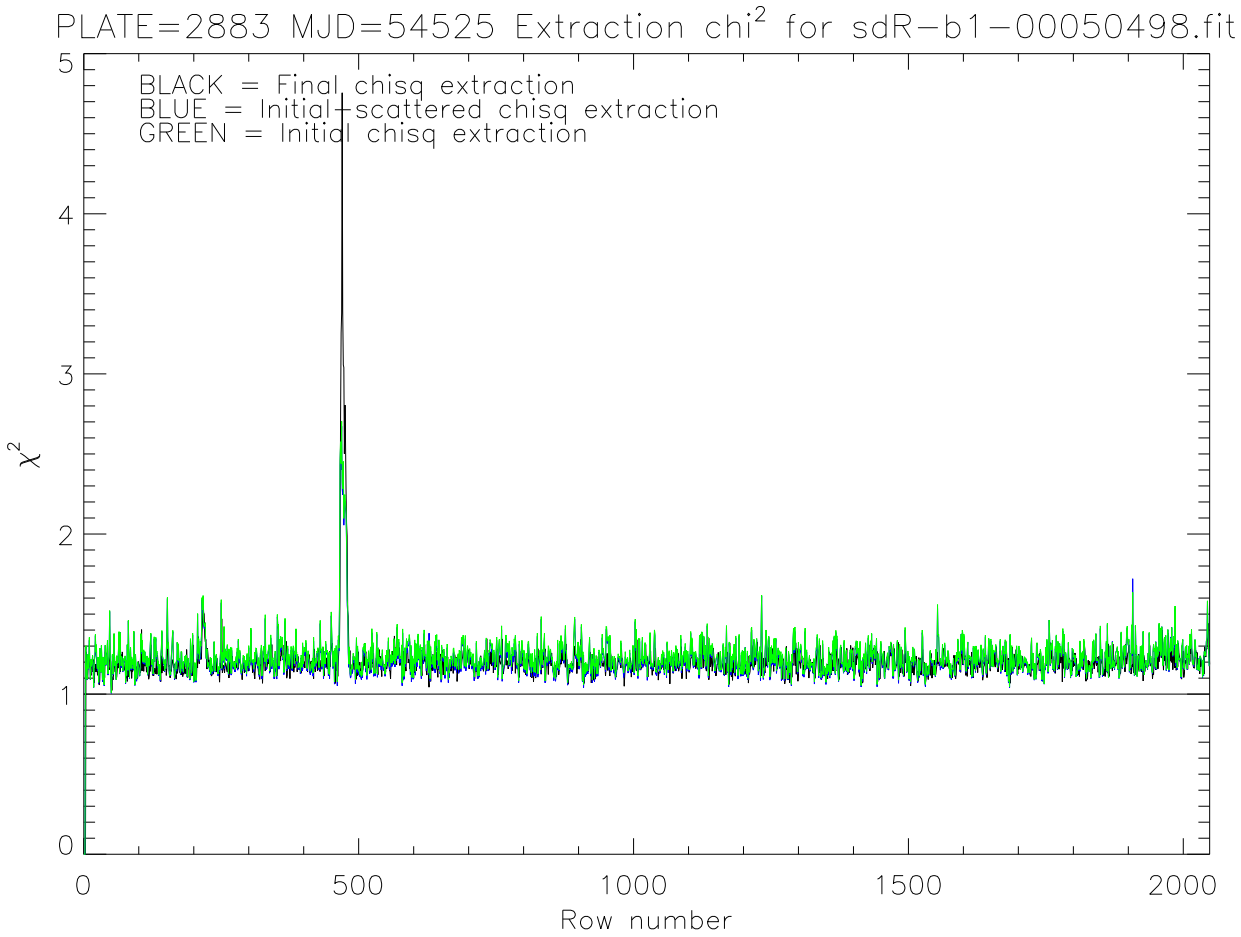
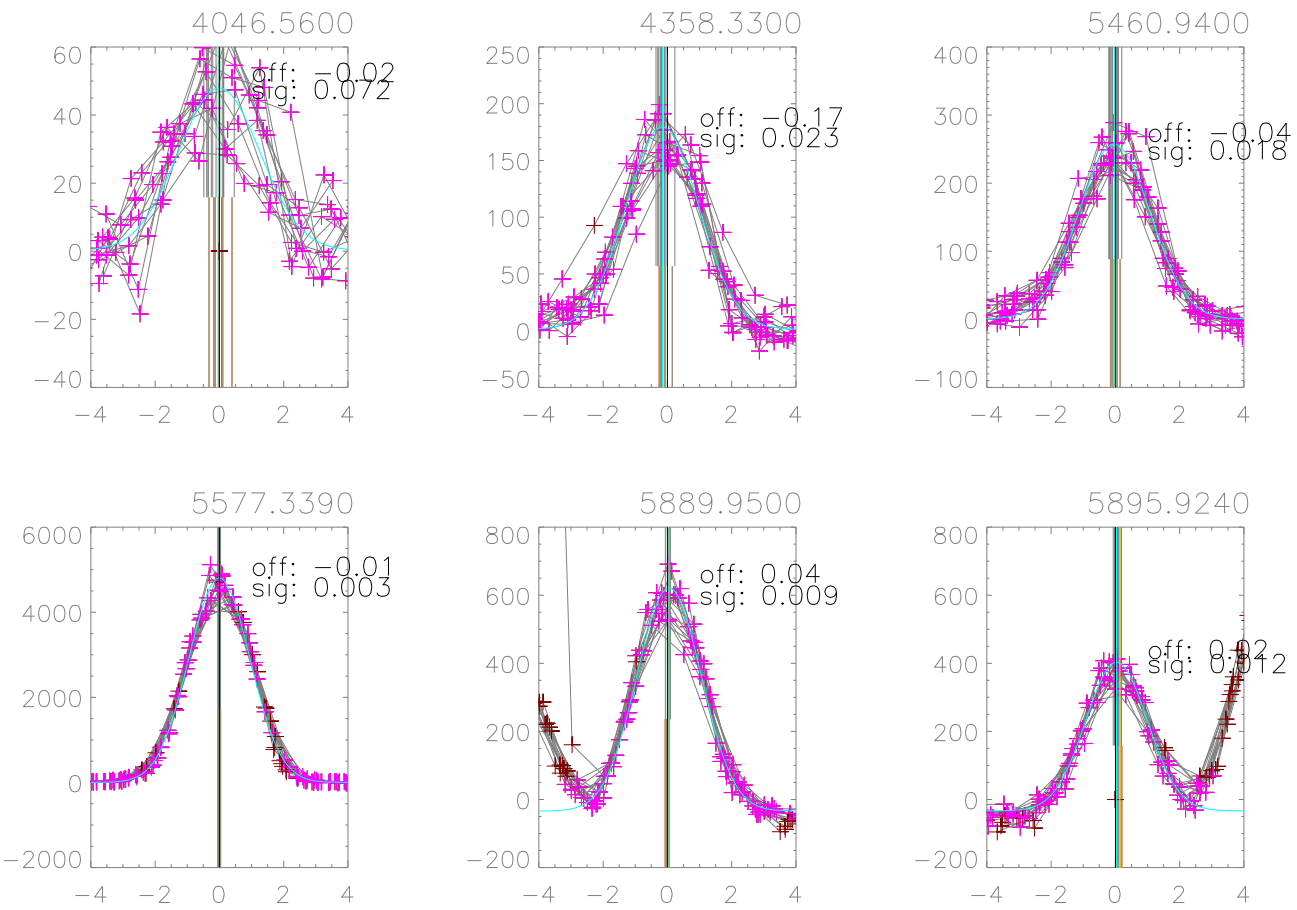
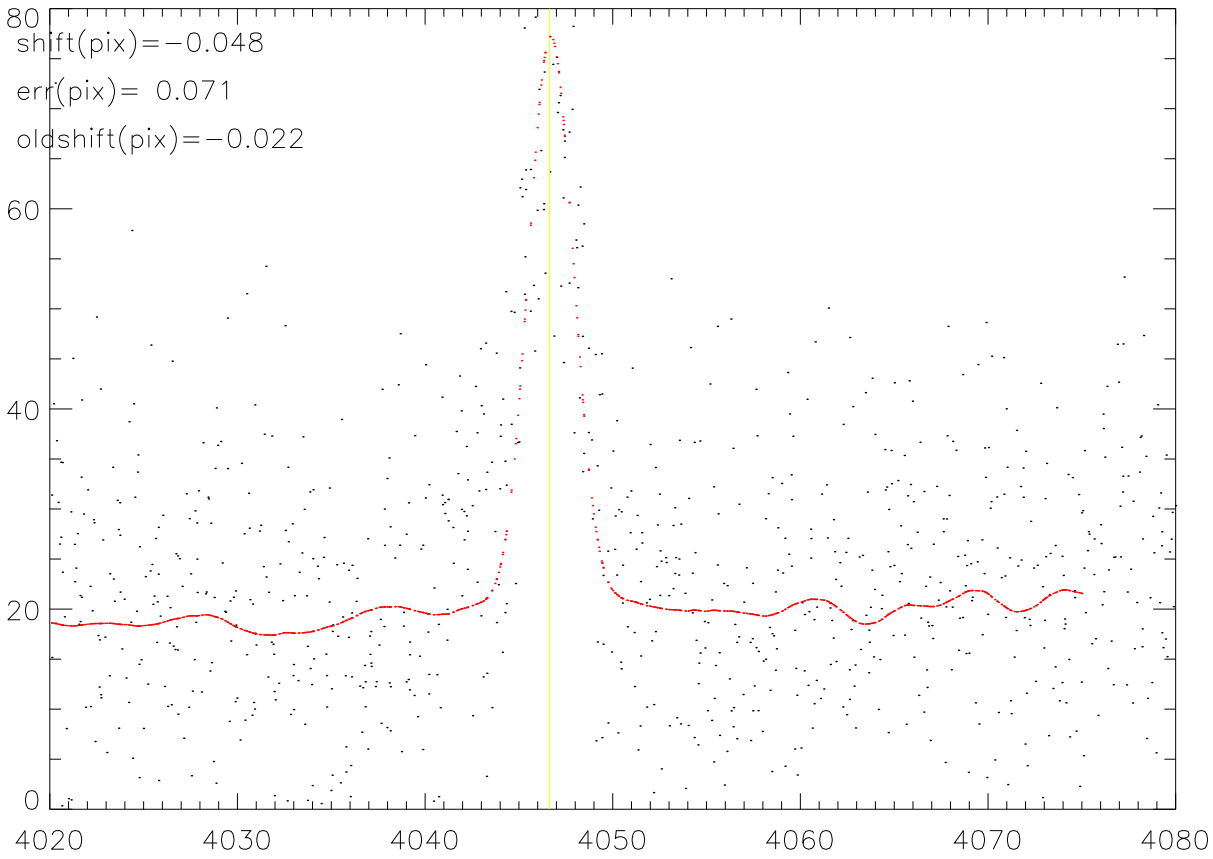
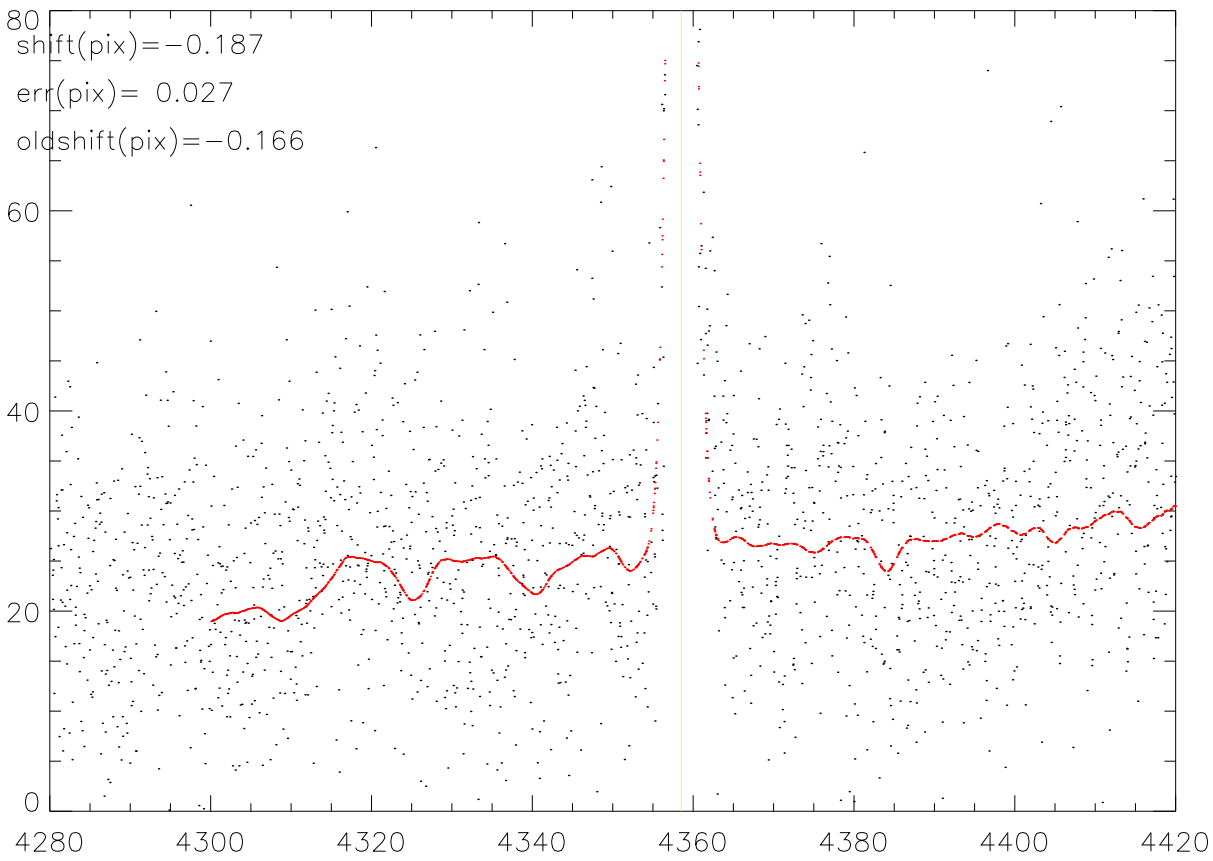
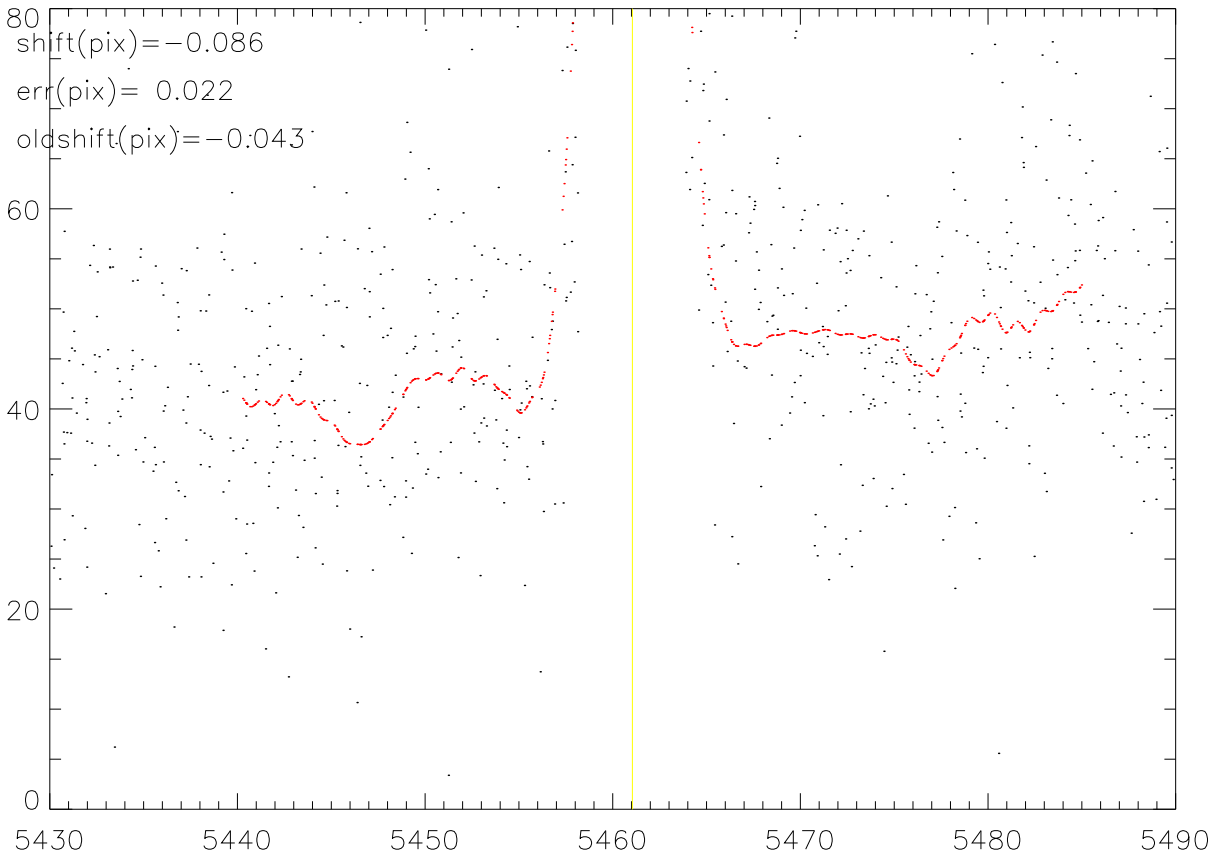
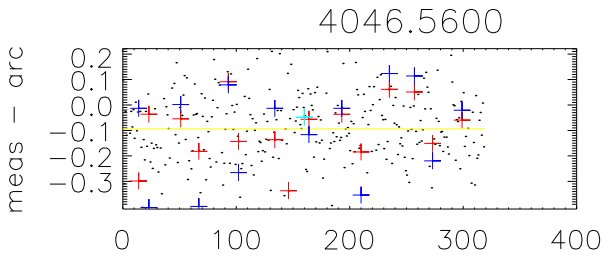

PLATE=2883 MJD=54525 Extraction chi^2 for sdR-b1-00050498.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

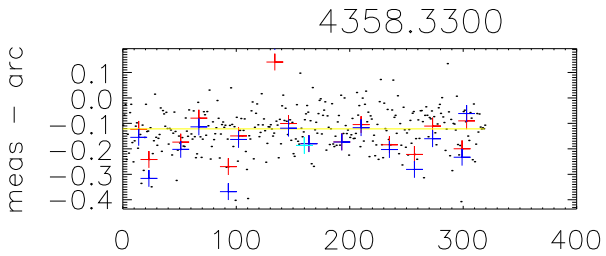

4046.5600
off: −0.02
sig: 0.072
4358.3300
off: −0.17
sig: 0.023
5460.9400
off: −0.04
sig: 0.018
5577.3390
off: −0.01
sig: 0.003
5889.9500
off: 0.04
sig: 0.009
5895.9240
off: 0.02
sig: 0.012

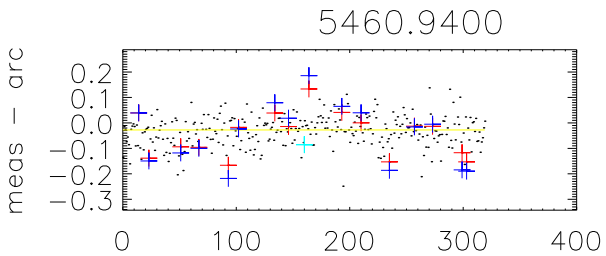

shift(pix)=−0.048
err(pix)= 0.071
oldshift(pix)=−0.022
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

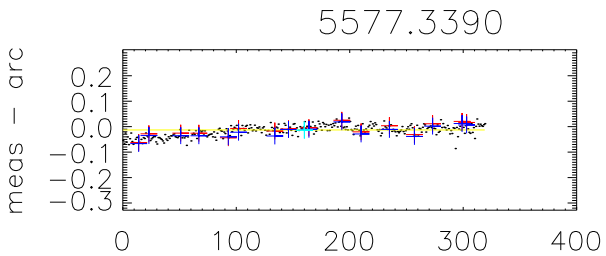

shift(pix)=−0.187
err(pix)= 0.027
oldshift(pix)=−0.166
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

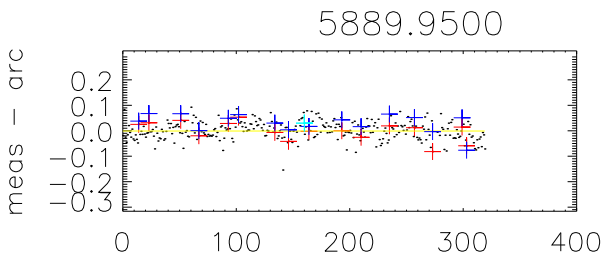

shift(pix)=−0.086
err(pix)= 0.022
oldshift(pix)=−0.043
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

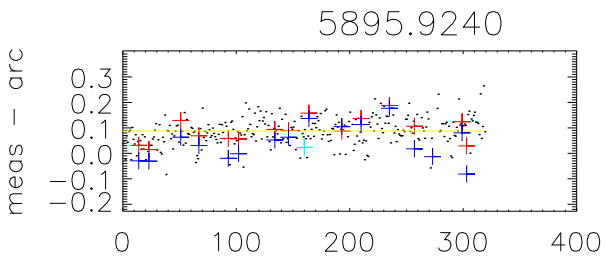

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

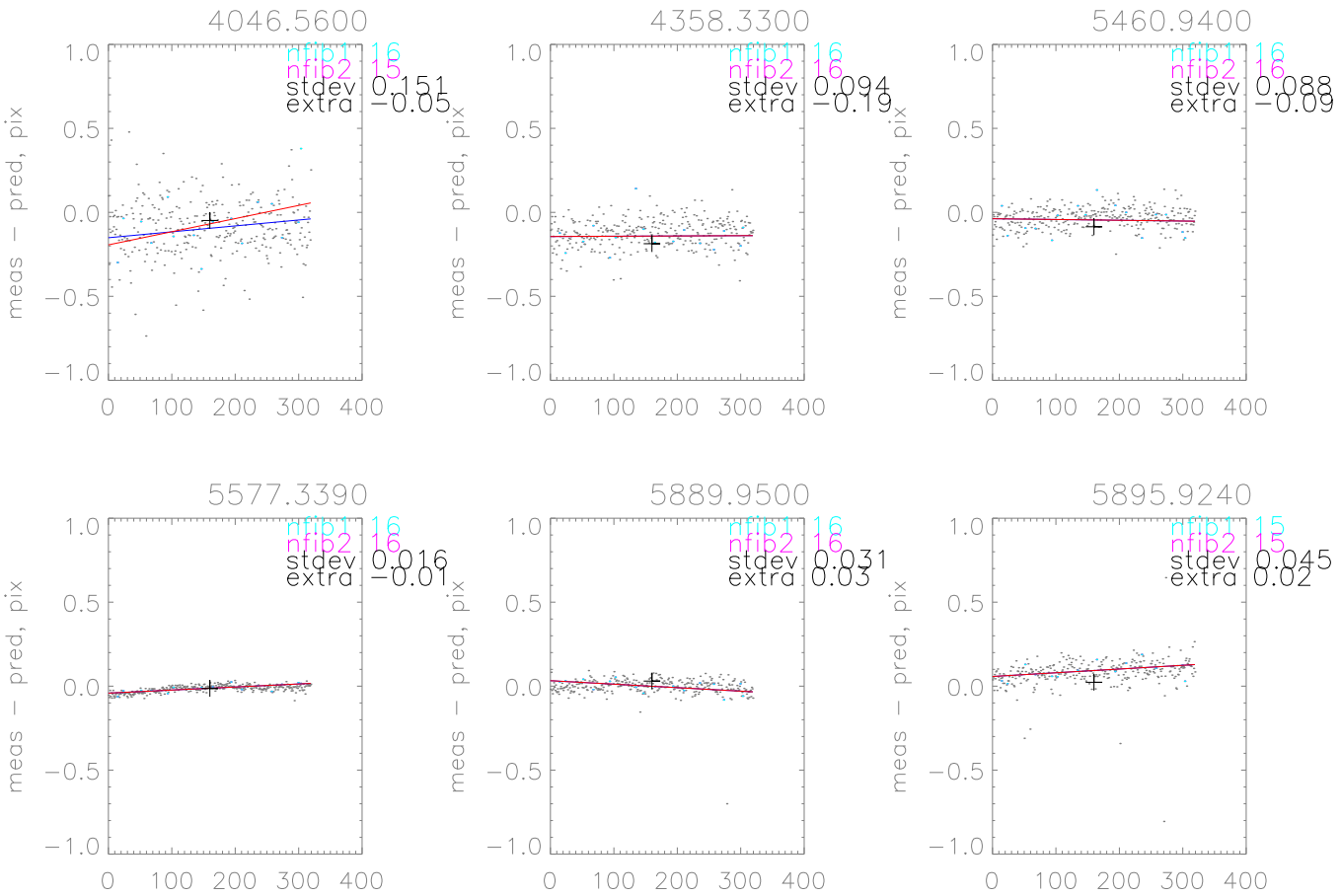

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

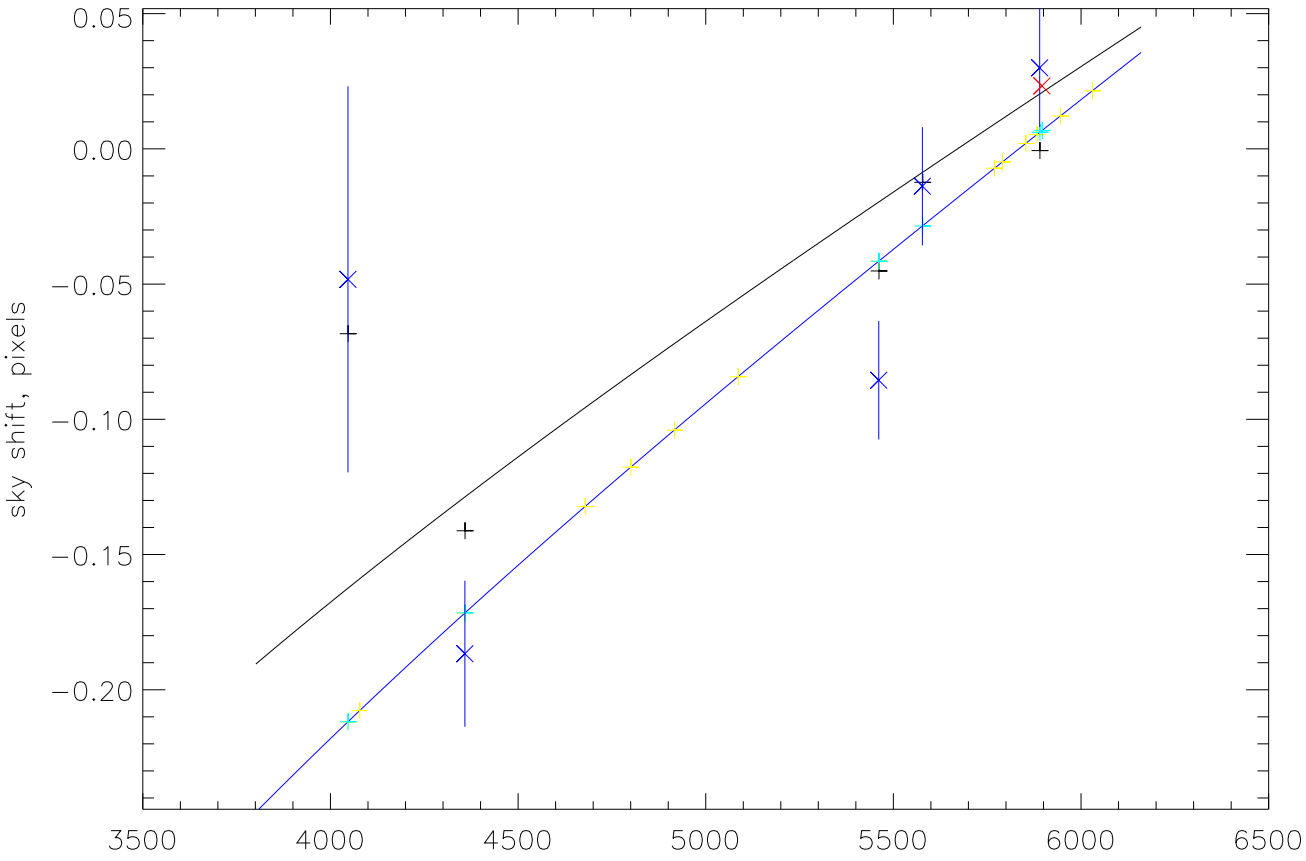

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

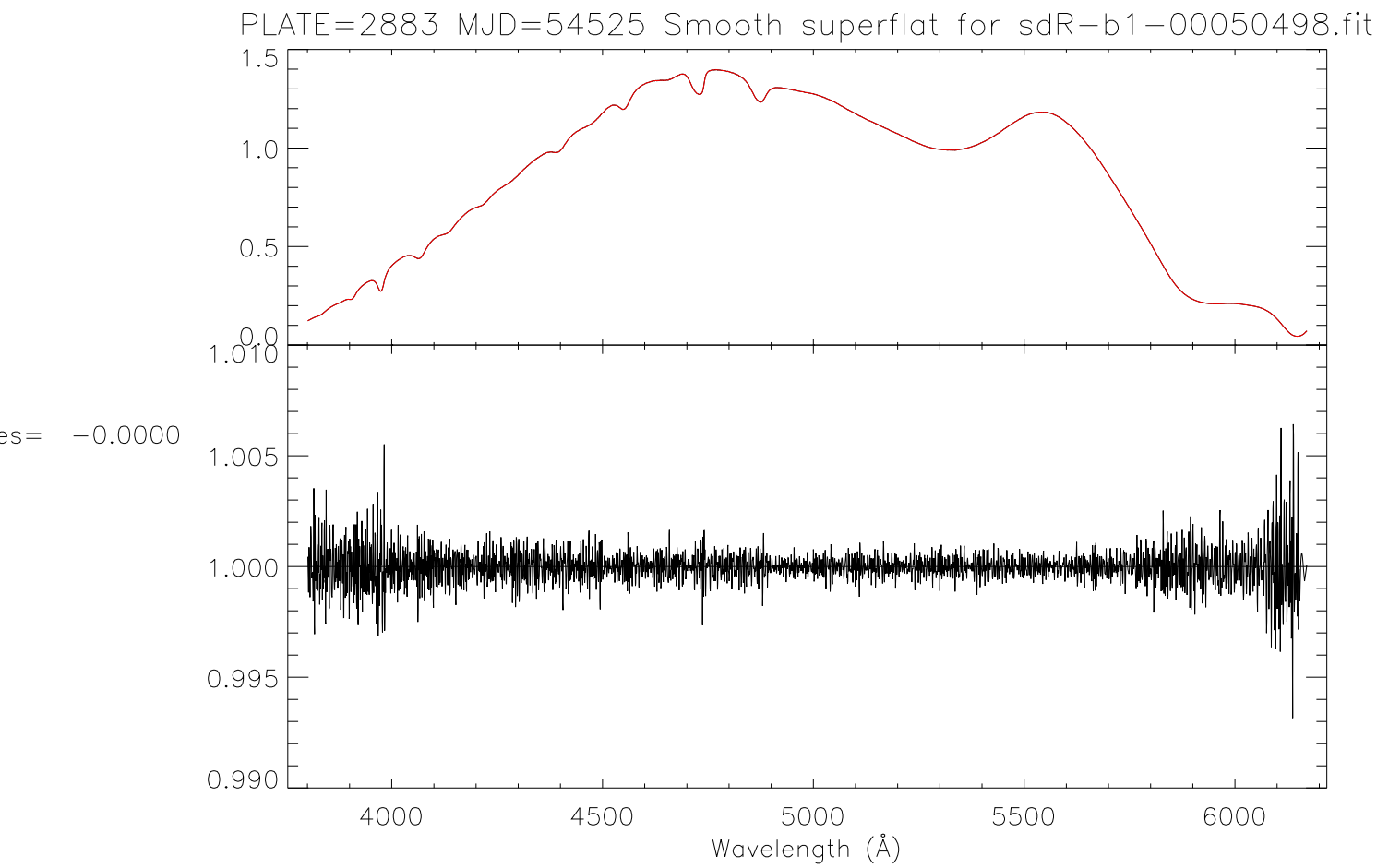

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

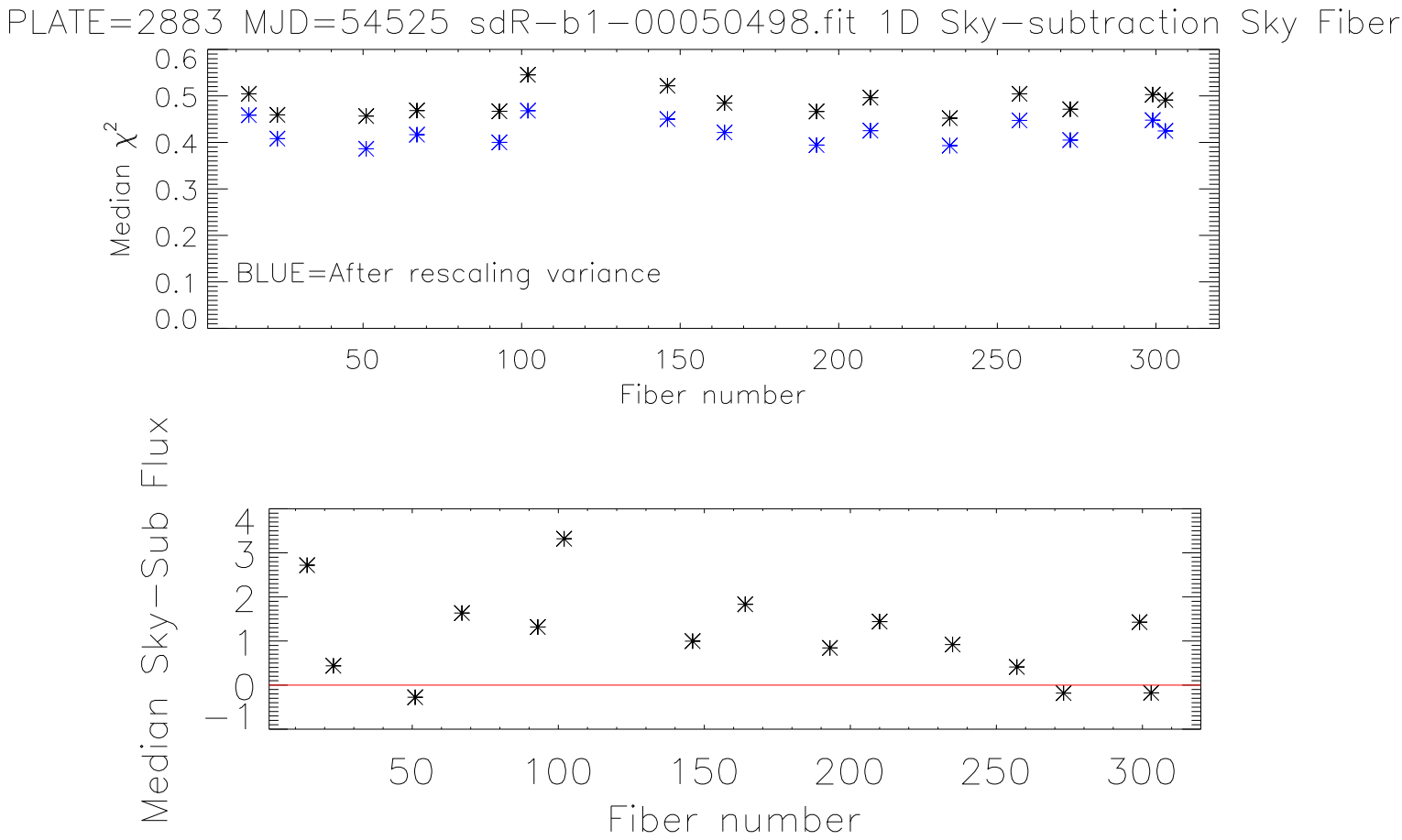

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

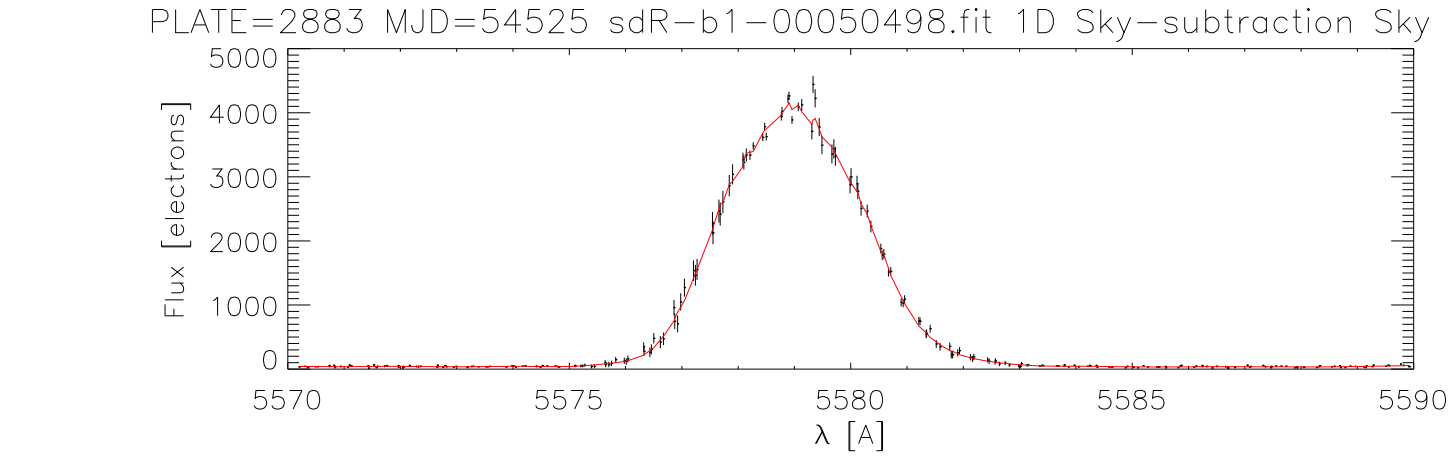

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

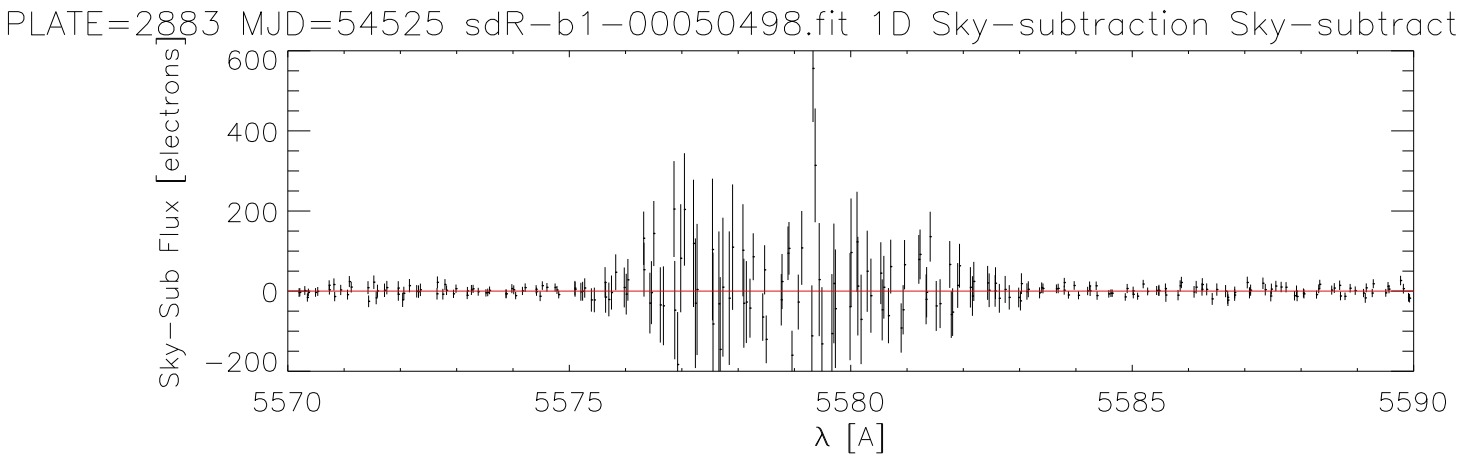

4046.5600
nfib1 16
nfib2 15
stdev 0.151
extra −0.05
4358.3300
nfib1 16
nfib2 16
stdev 0.094
extra −0.19
5460.9400
nfib1 16
nfib2 16
stdev 0.088
extra −0.09
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra −0.01
5889.9500
nfib1 16
nfib2 16
stdev 0.031
extra 0.03
5895.9240
nfib1 15
nfib2 15
stdev 0.045
extra 0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

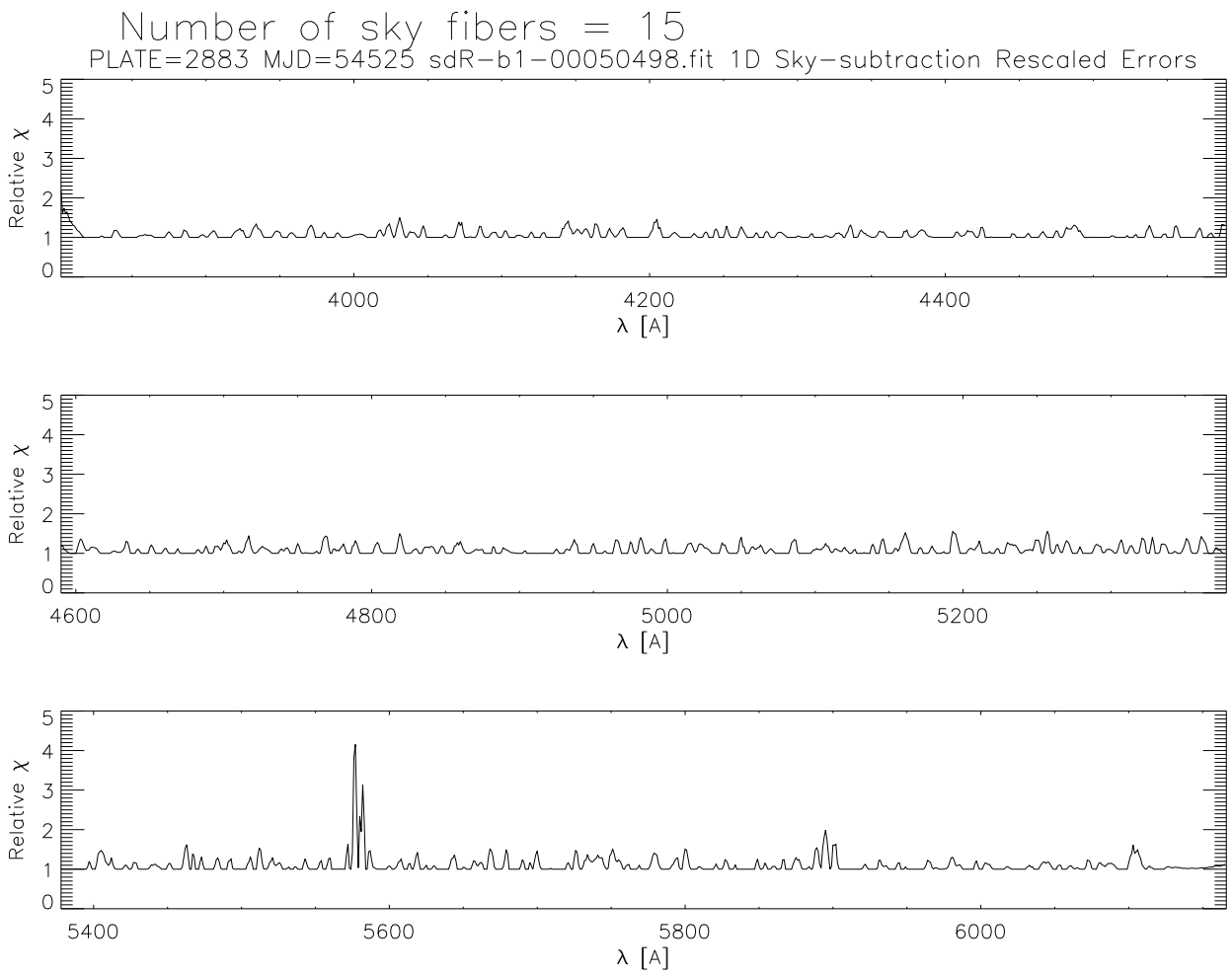

0.05
0.00
−0.05
−0.10
−0.15
−0.20
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

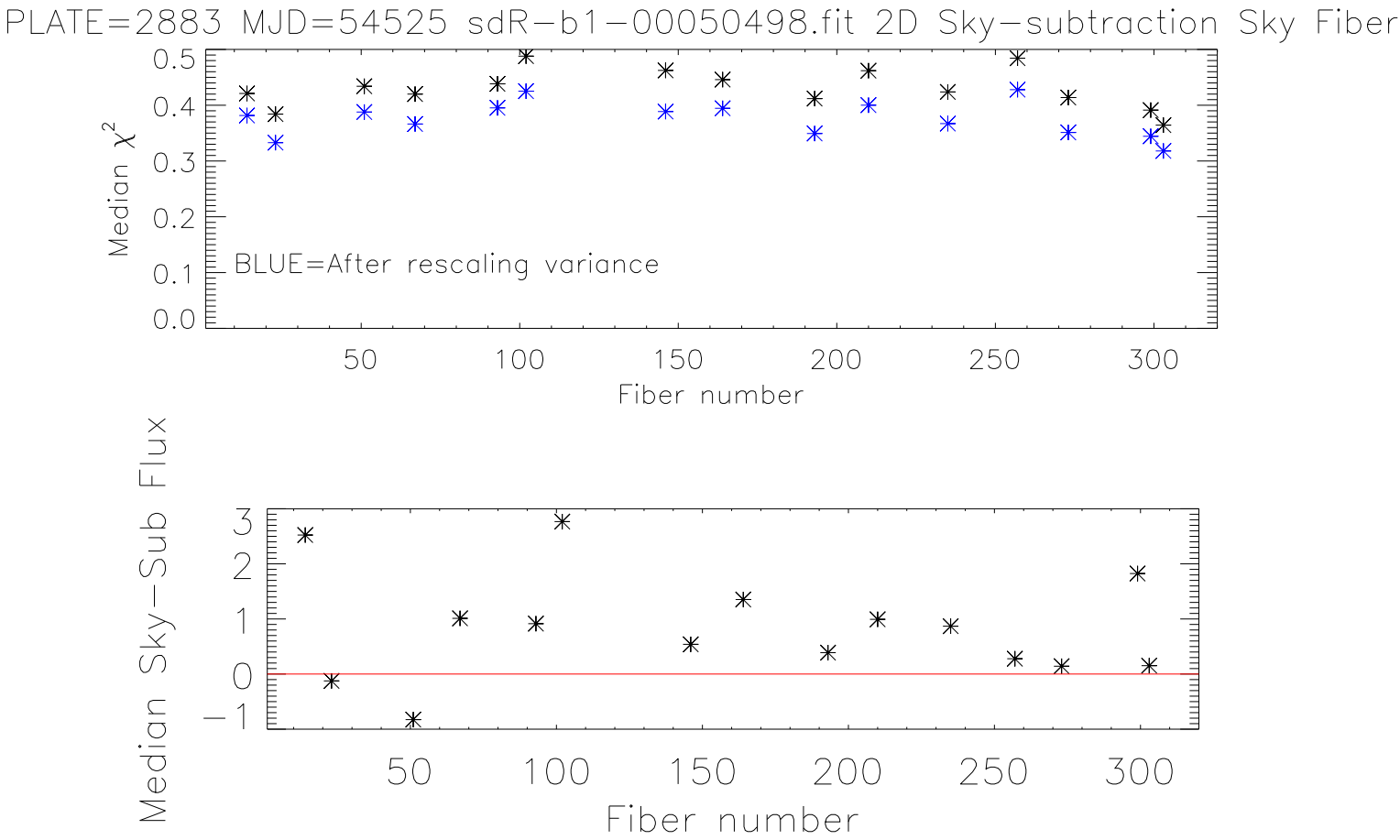

PLATE=2883 MJD=54525 Smooth superflat for sdR-b1-00050498.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

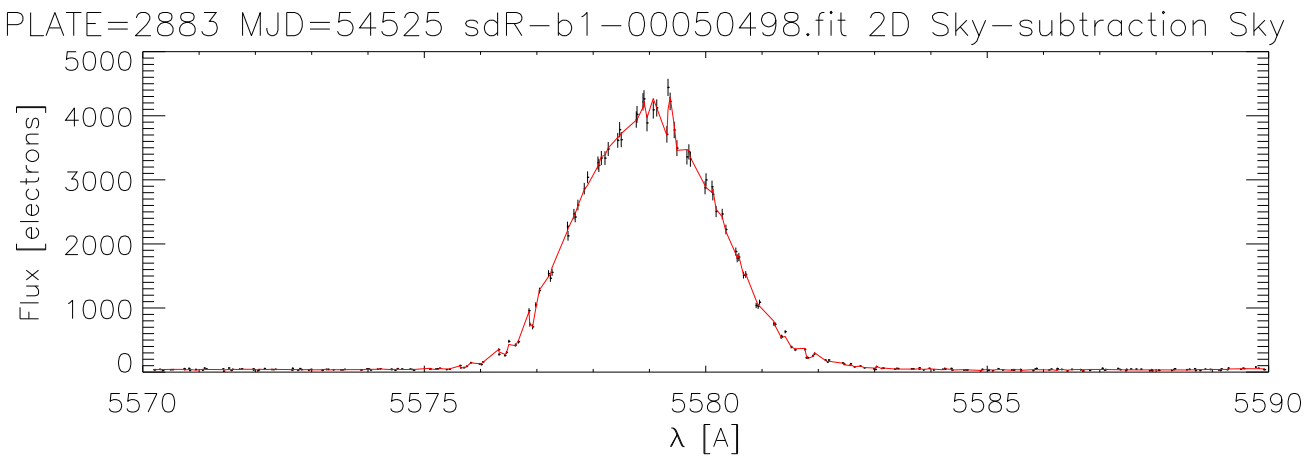

PLATE=2883 MJD=54525 sdR-b1-00050498.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

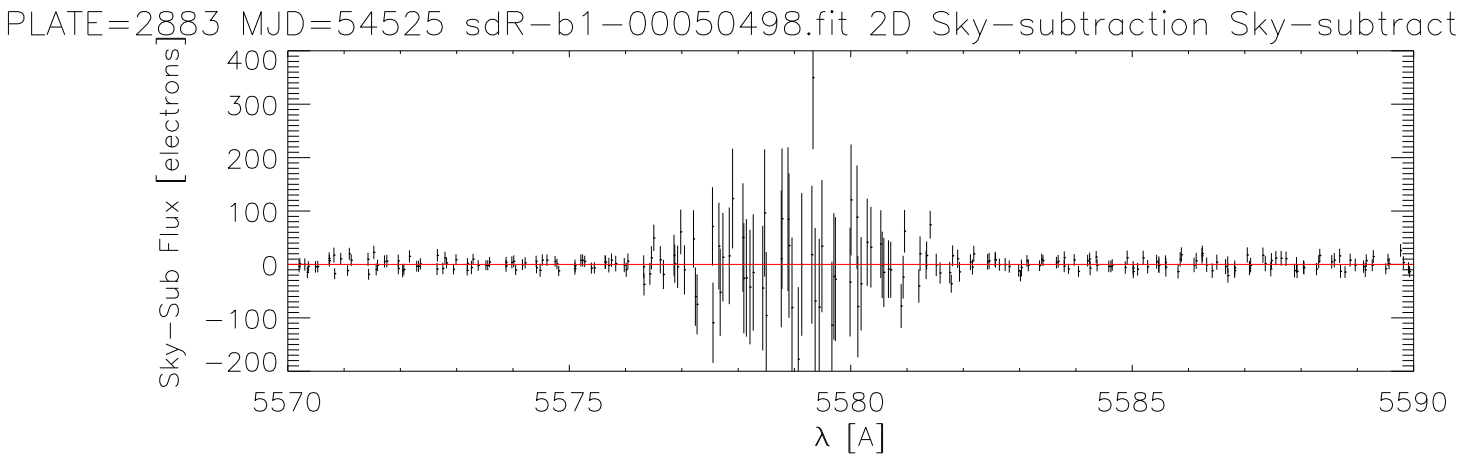

PLATE=2883 MJD=54525 sdR-b1-00050498.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

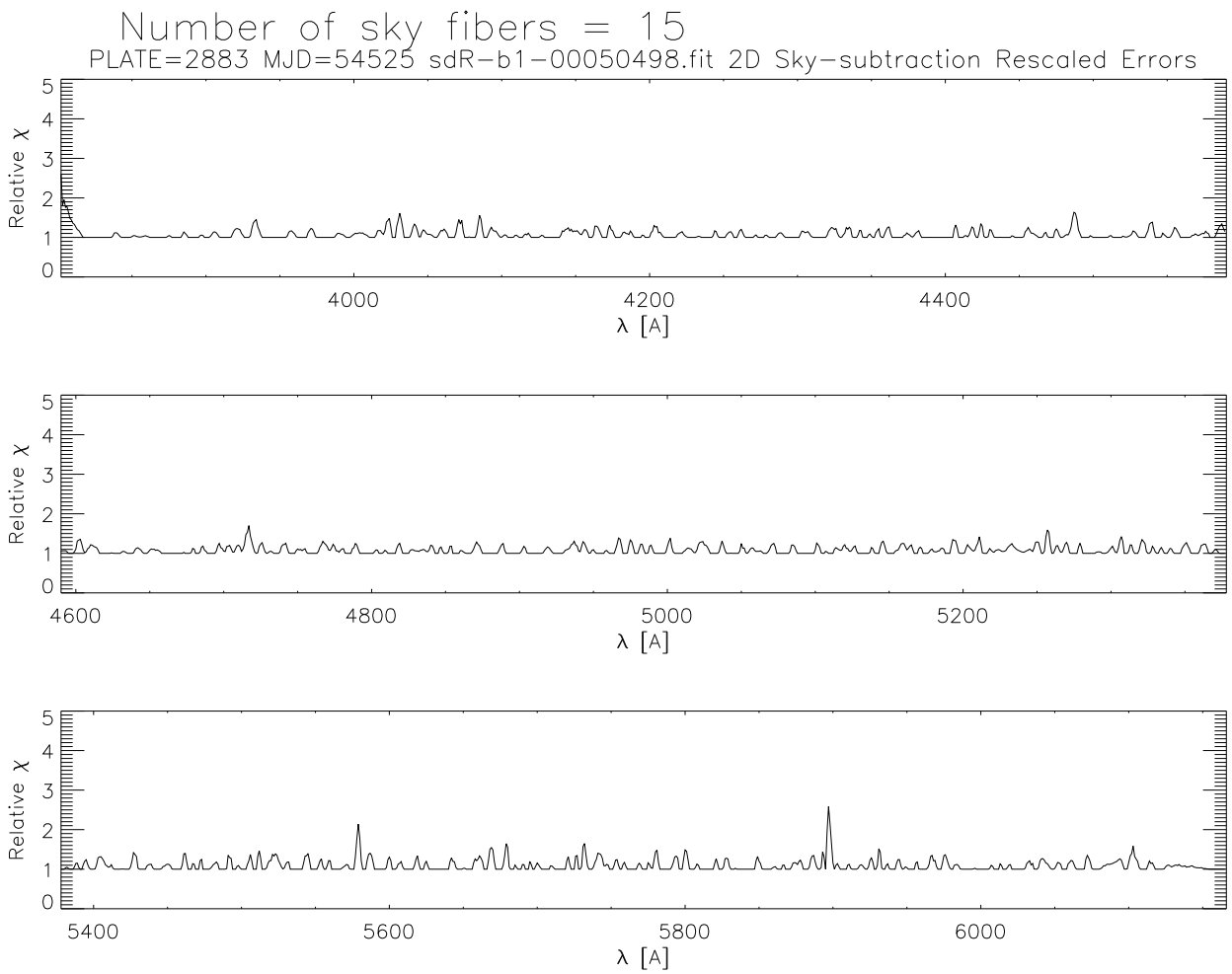

PLATE=2883 MJD=54525 sdR-b1-00050498.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
5570
5575
5580
5585
5590
λ [A]

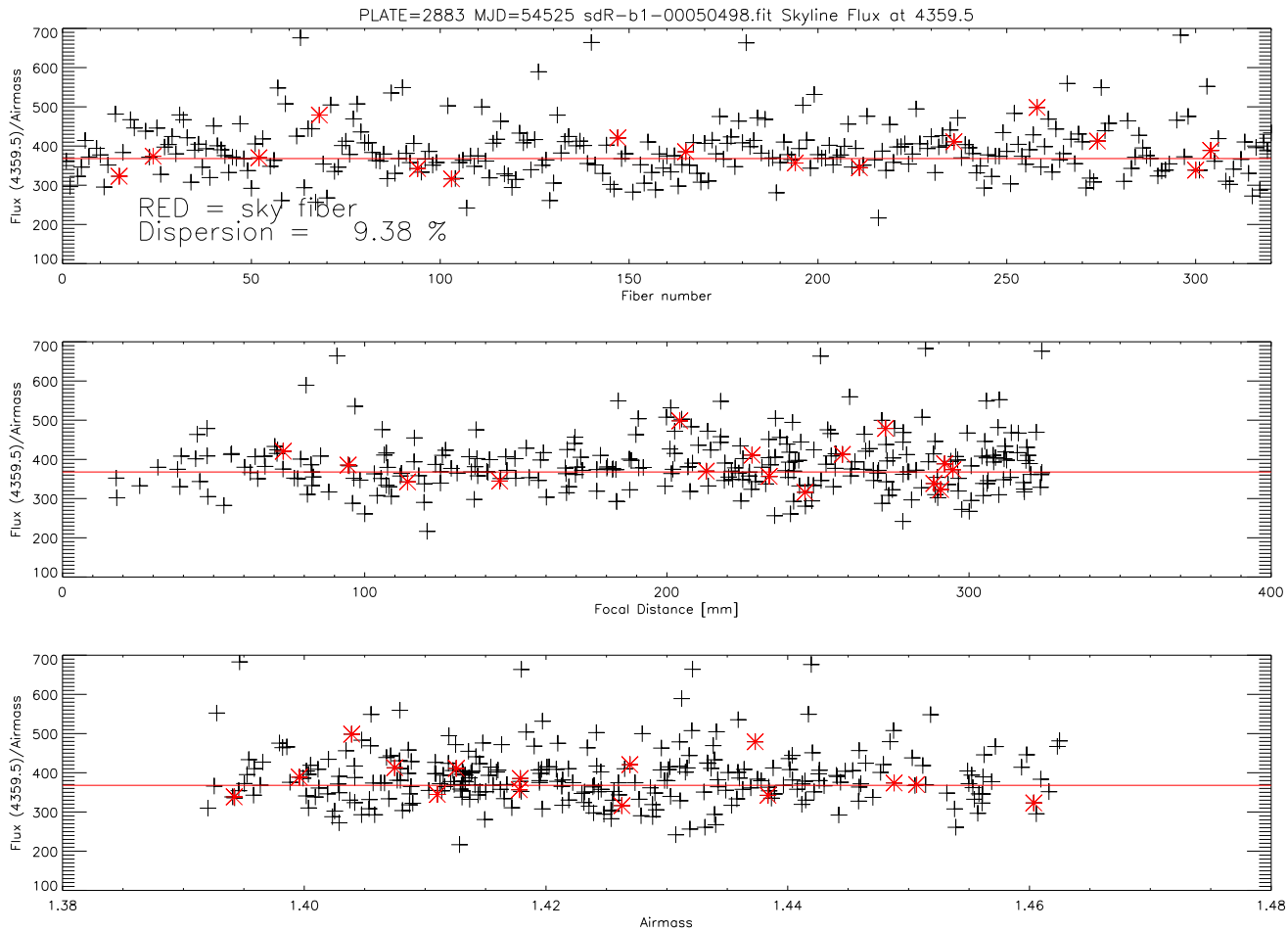

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-b1-00050498.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

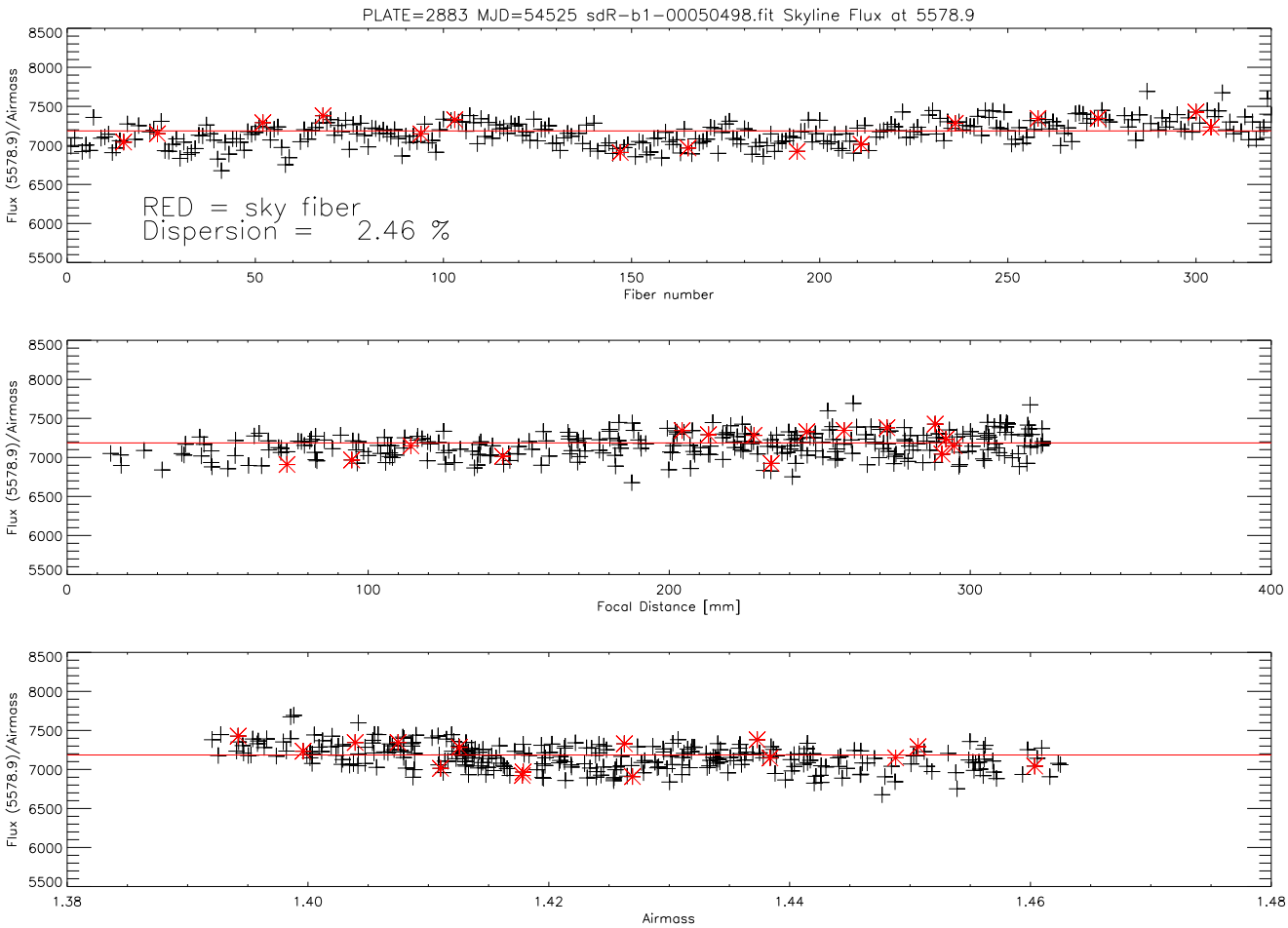

PLATE=2883 MJD=54525 sdR-b1-00050498.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

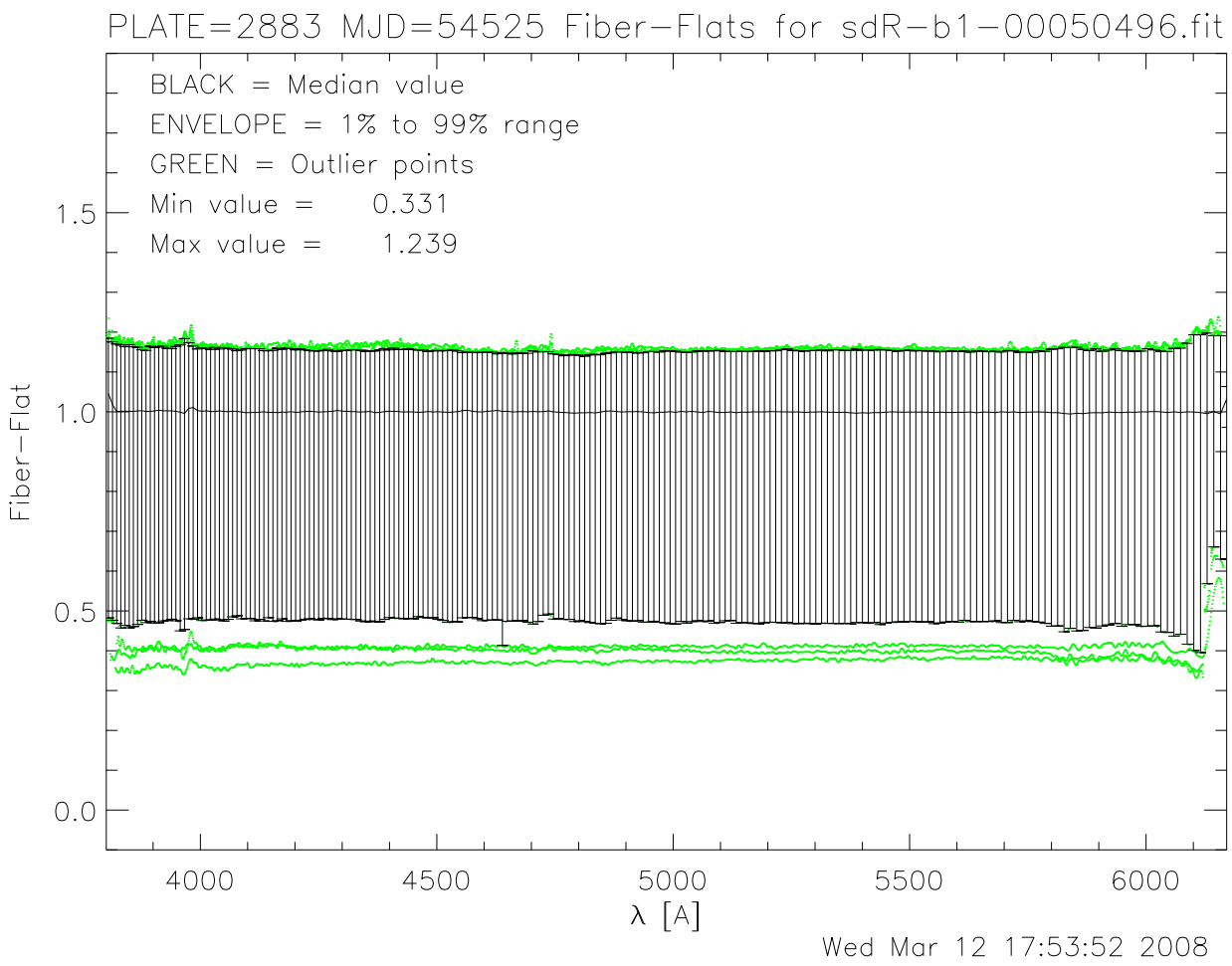

PLATE=2883 MJD=54525 sdR-b1-00050498.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2883 MJD=54525 sdR-b1-00050498.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-b1-00050498.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5


PLATE=2883 MJD=54525 sdR-b1-00050498.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.38 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=2883 MJD=54525 sdR-b1-00050498.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.46 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass


PLATE=2883 MJD=54525 Fiber-Flats for sdR-b1-00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.331
Max value = 1.239
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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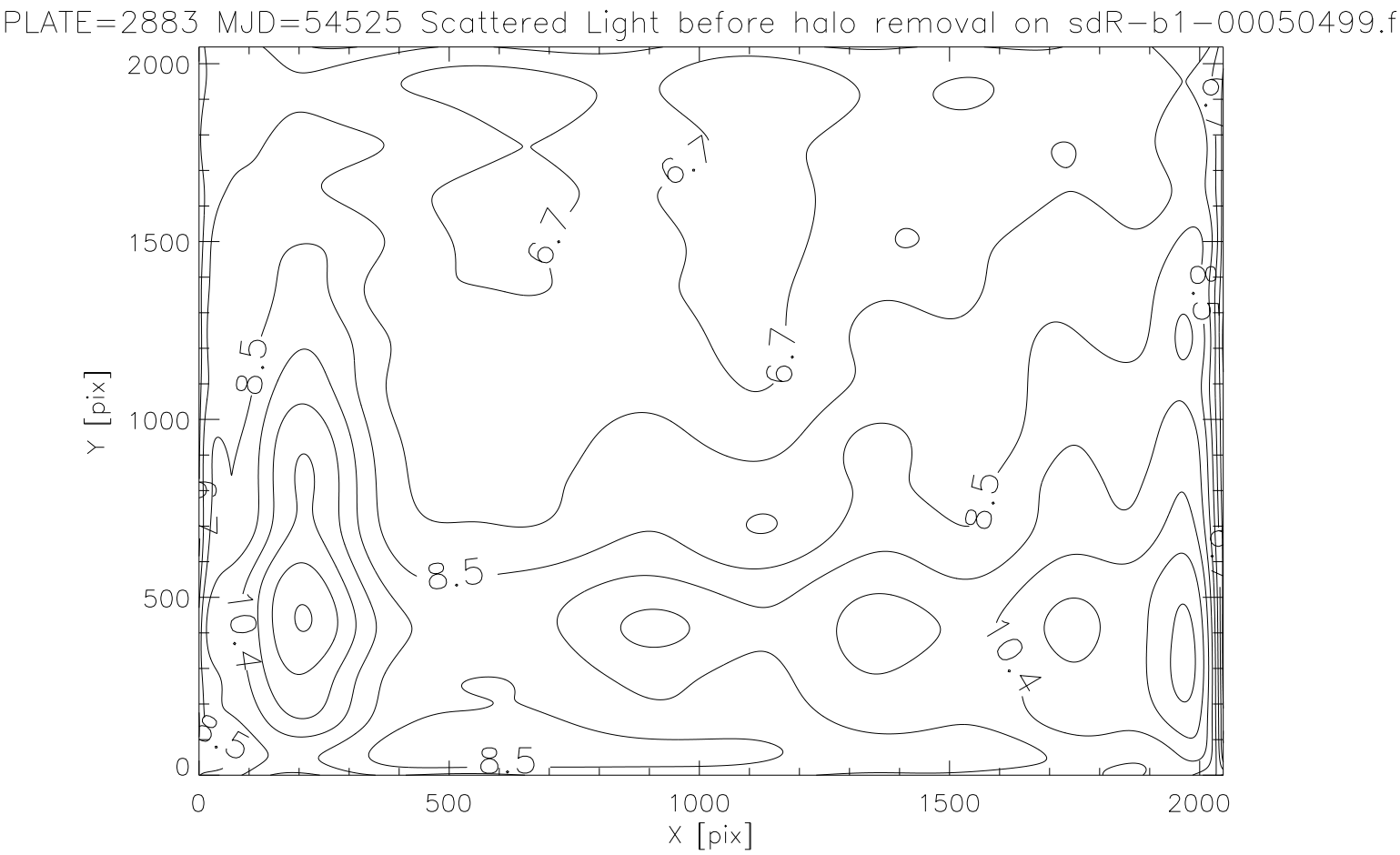
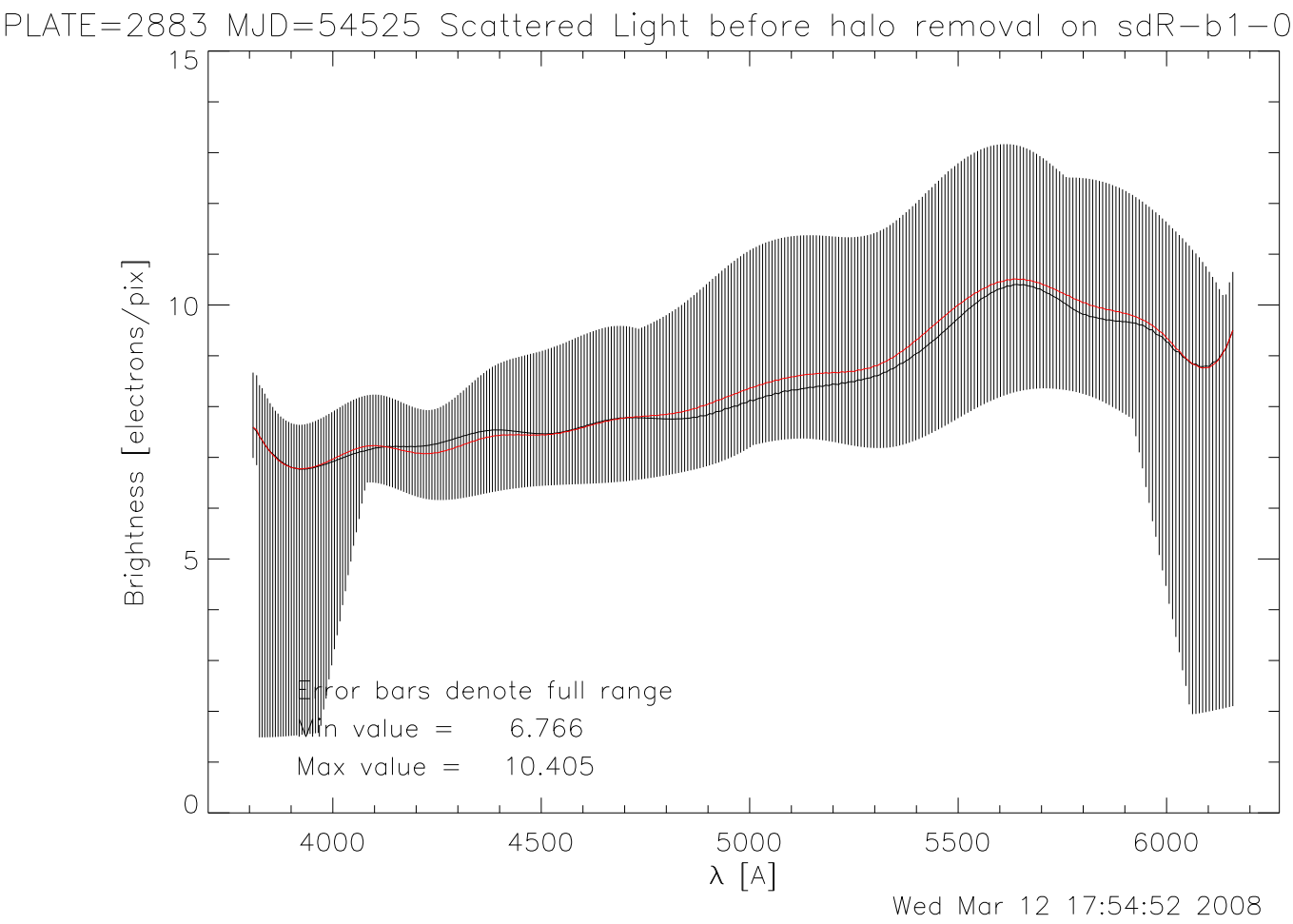
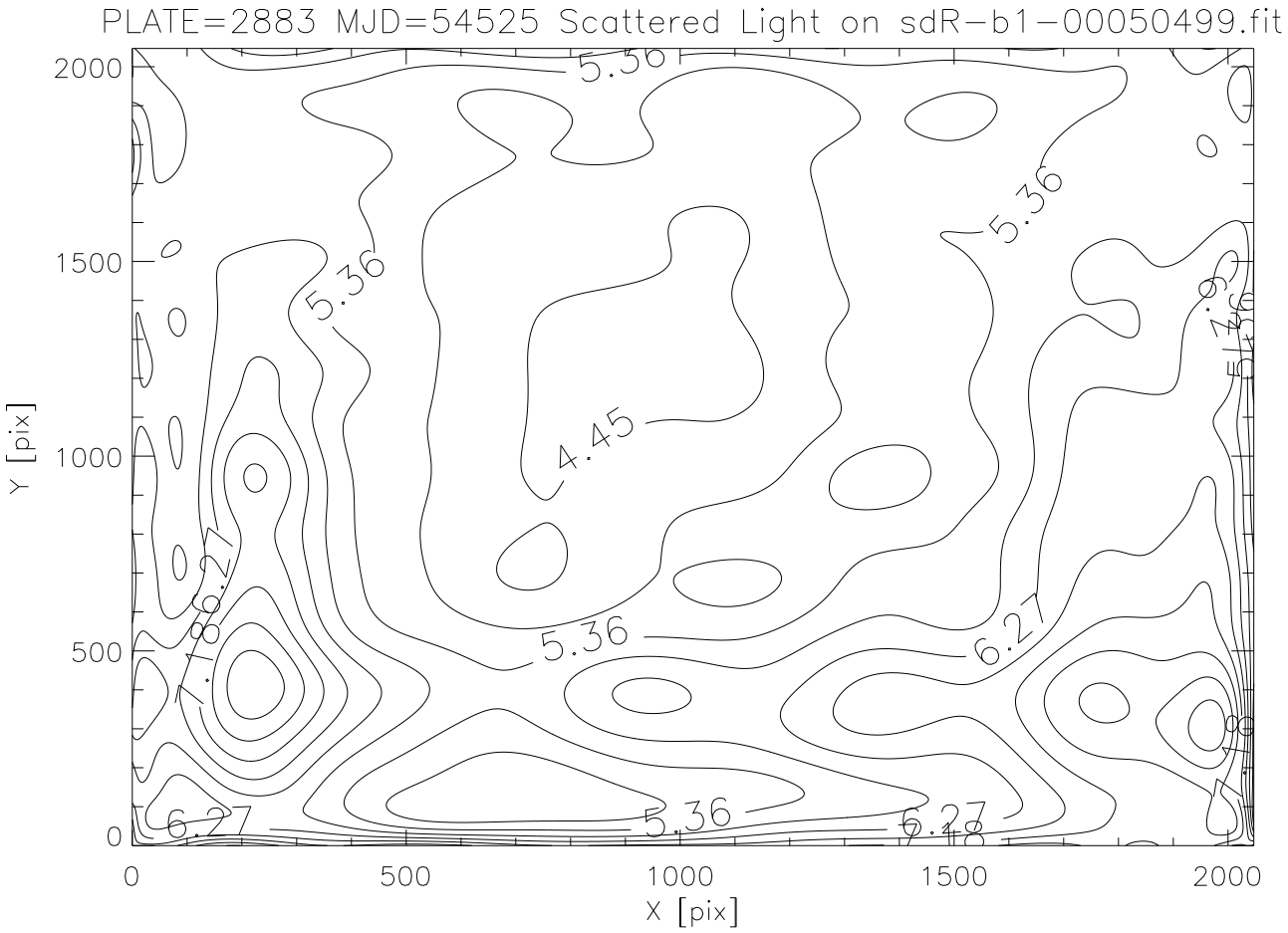
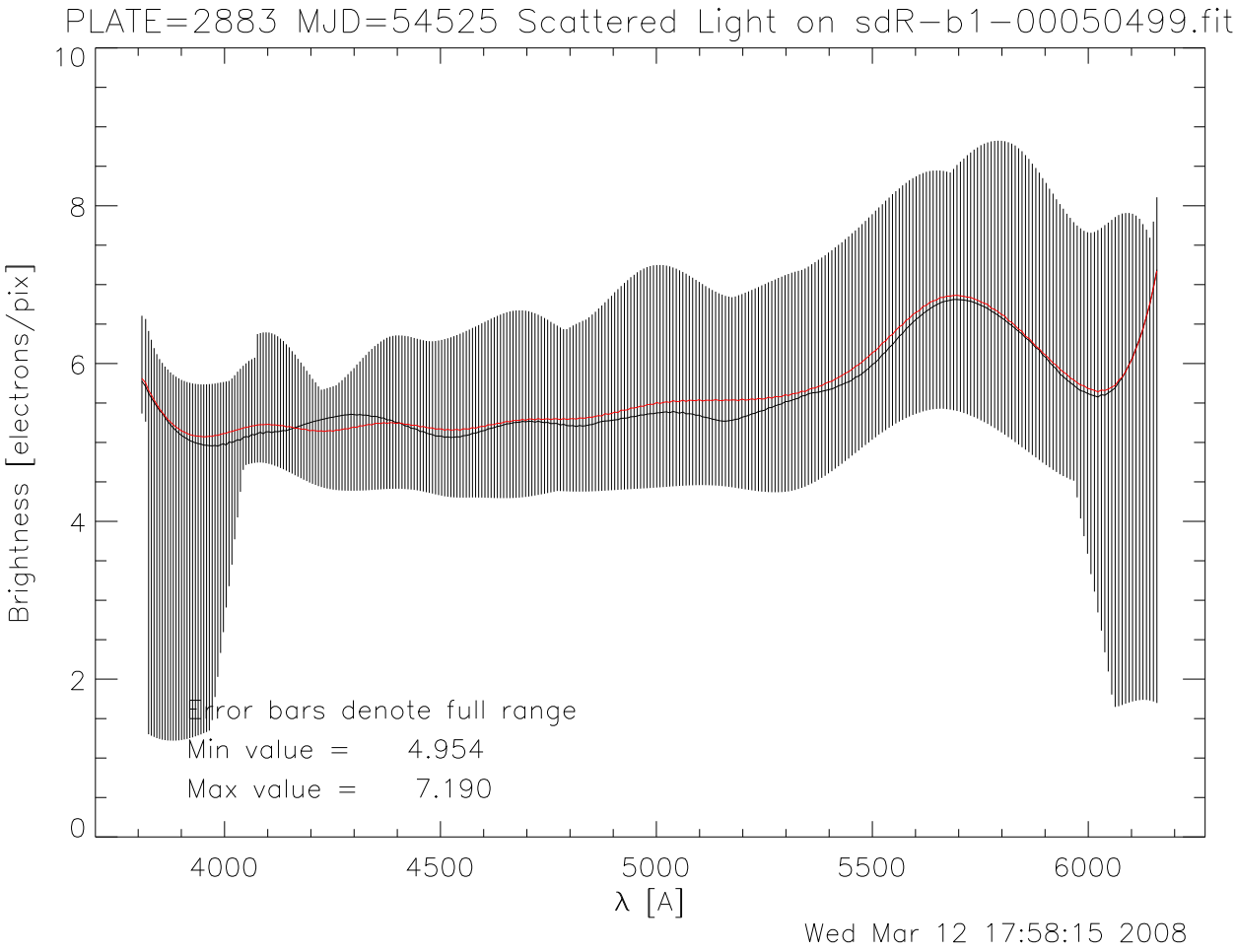
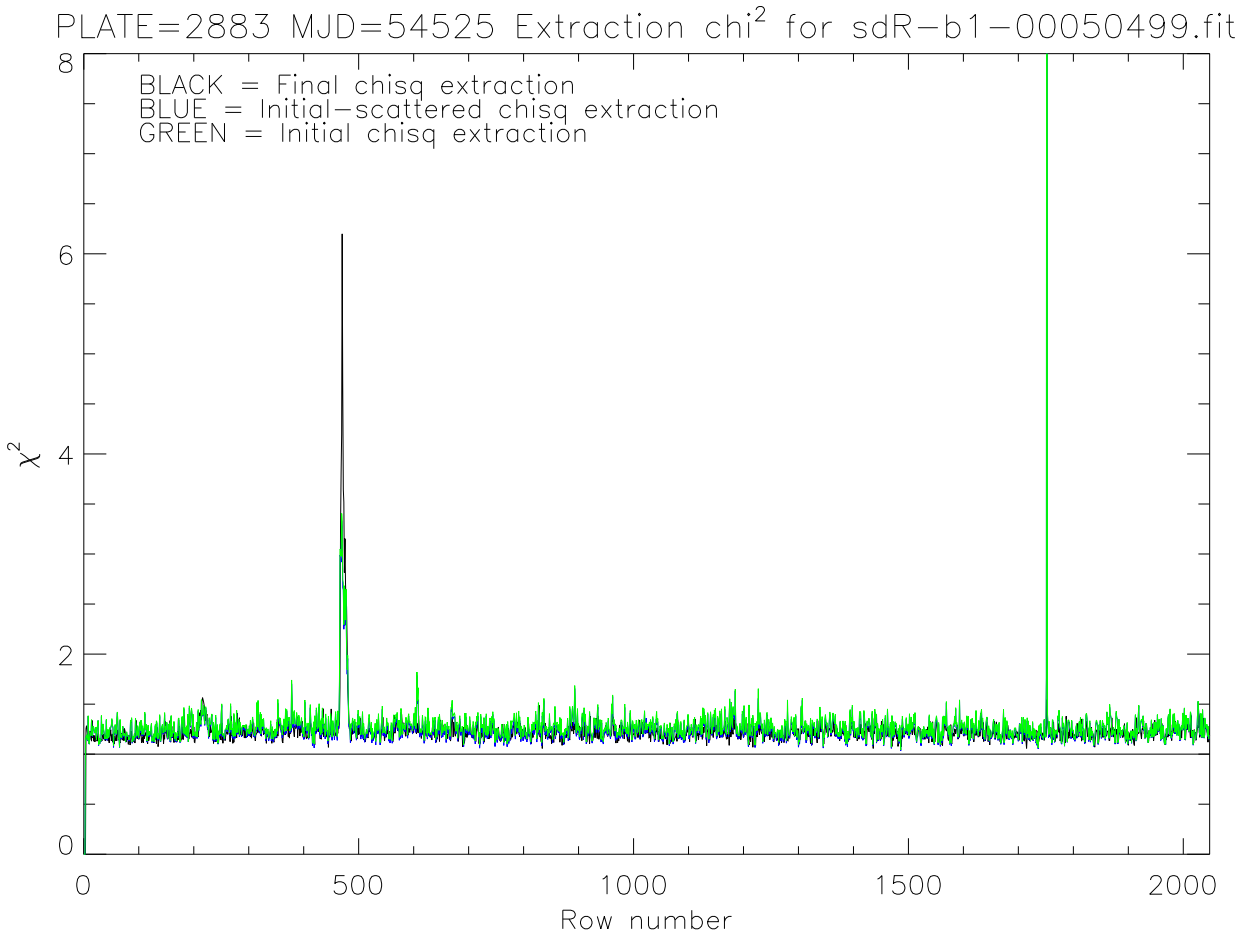
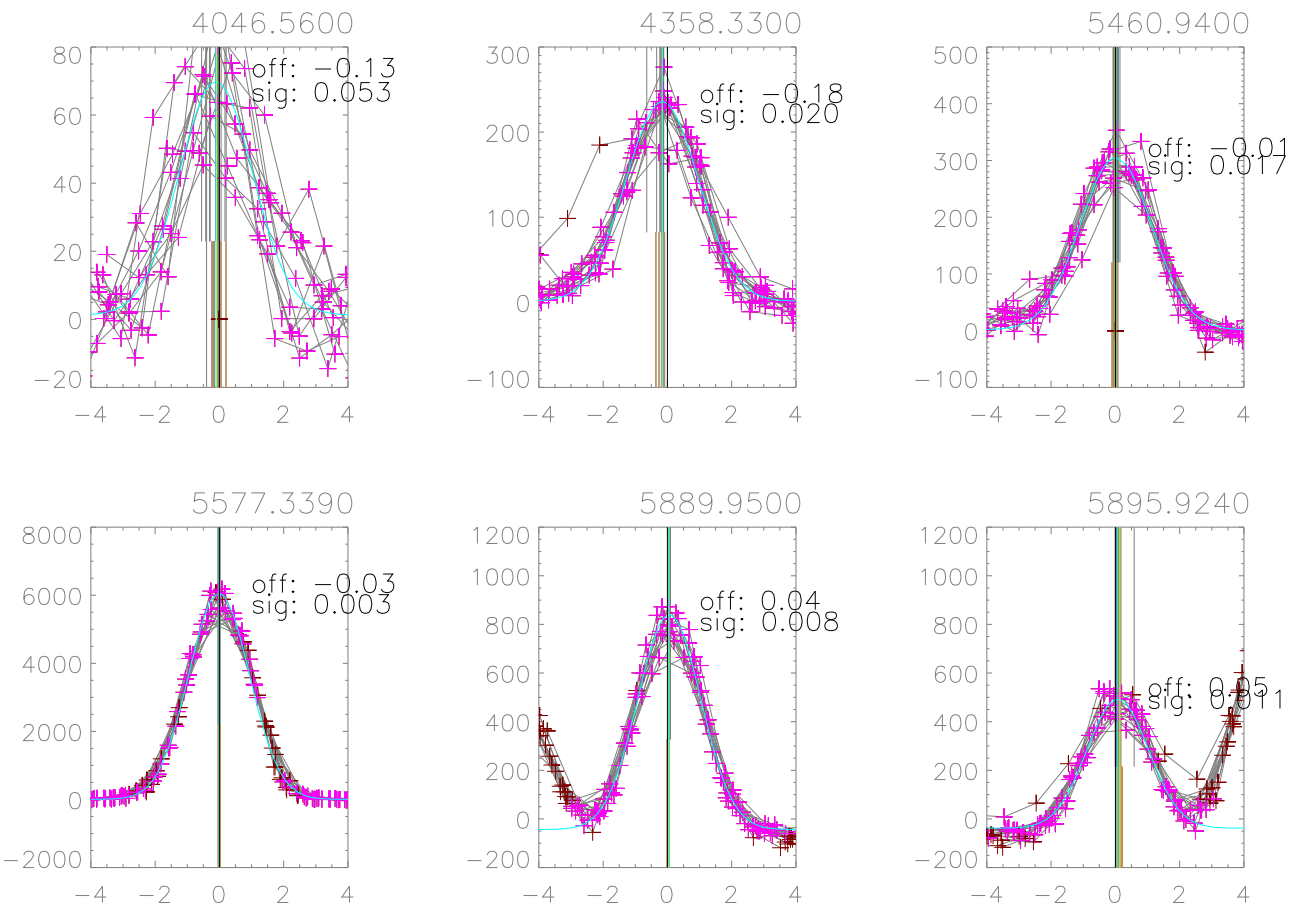

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR−b1−00050499.f
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
10.4

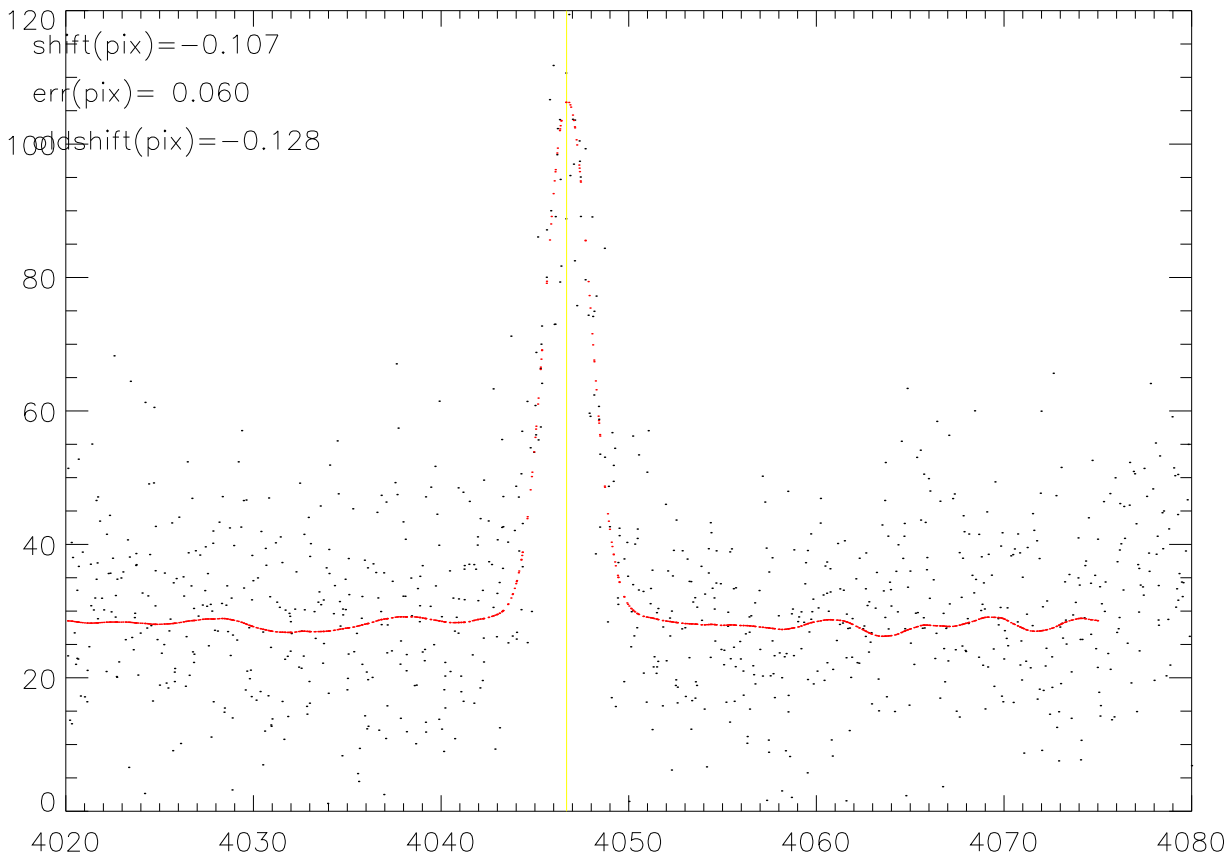

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b1-00050499.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.766
Max value = 10.405
Wed Mar 12 17:54:52 2008

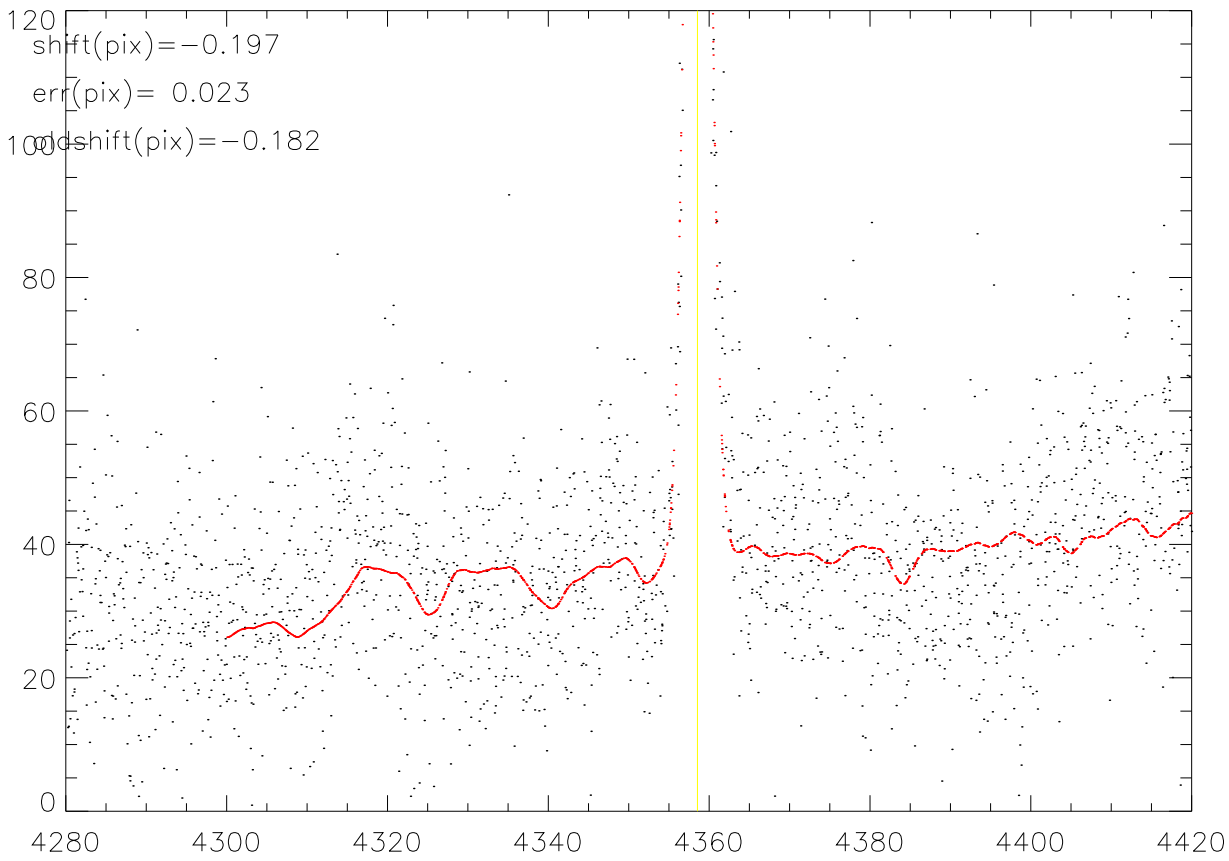

PLATE=2883 MJD=54525 Scattered Light on sdR-b1-00050499.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.36
4.45
6.27
6.48

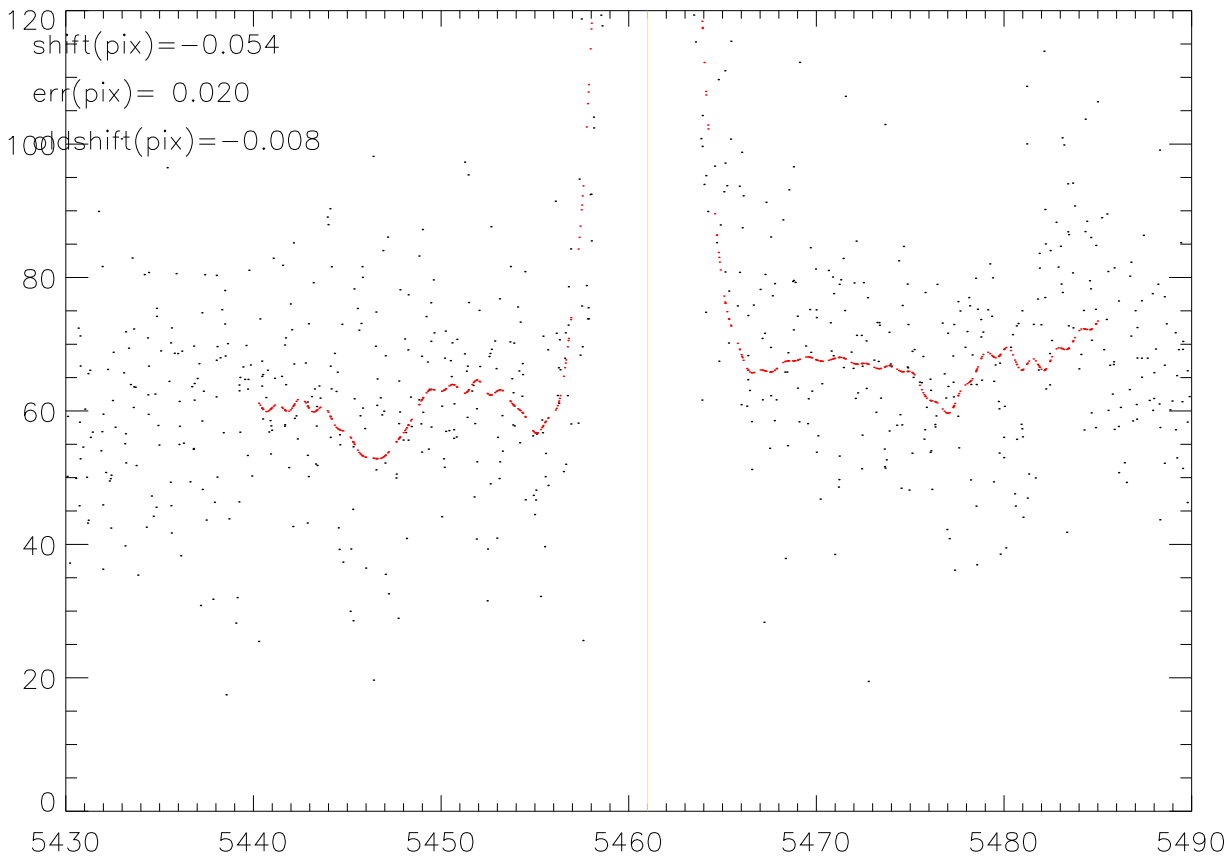

PLATE=2883 MJD=54525 Scattered Light on sdR-b1-00050499.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.954
Max value = 7.190
Wed Mar 12 17:58:15 2008

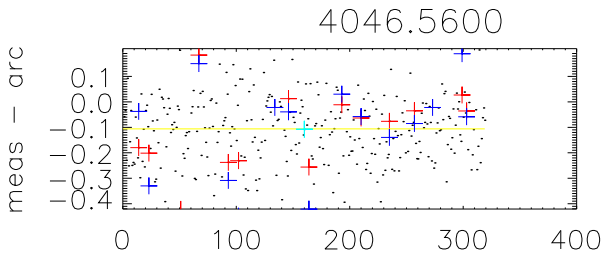

PLATE=2883 MJD=54525 Extraction chi^2 for sdR-b1-00050499.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

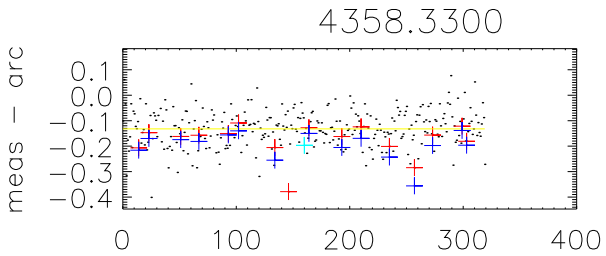

4046.5600
off: −0.13
sig: 0.053
4358.3300
off: −0.18
sig: 0.020
5460.9400
off: −0.01
sig: 0.017
5577.3390
off: −0.03
sig: 0.003
5889.9500
off: 0.04
sig: 0.008
5895.9240
off: 0.05
sig: 0.011

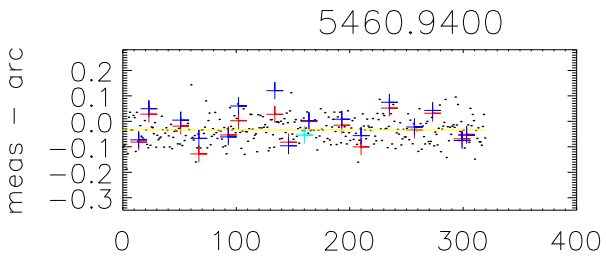

shift(pix)=−0.107
err(pix)= 0.060
oldshift(pix)=−0.128
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

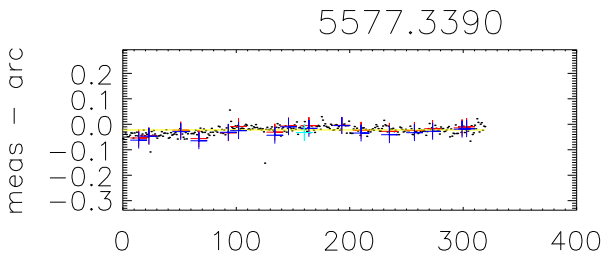

shift(pix)=−0.197
err(pix)= 0.023
oldshift(pix)=−0.182
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

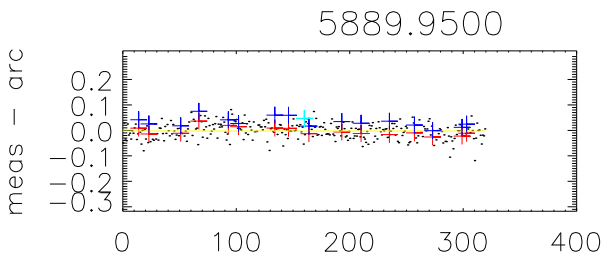

shift(pix)=−0.054
err(pix)= 0.020
oldshift(pix)=−0.008
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

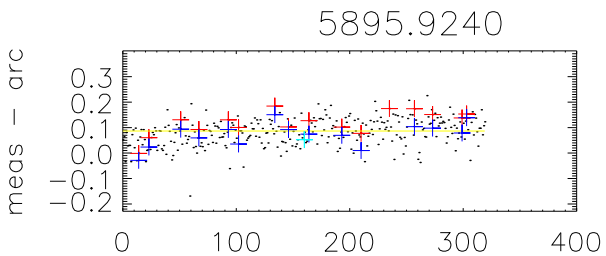

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

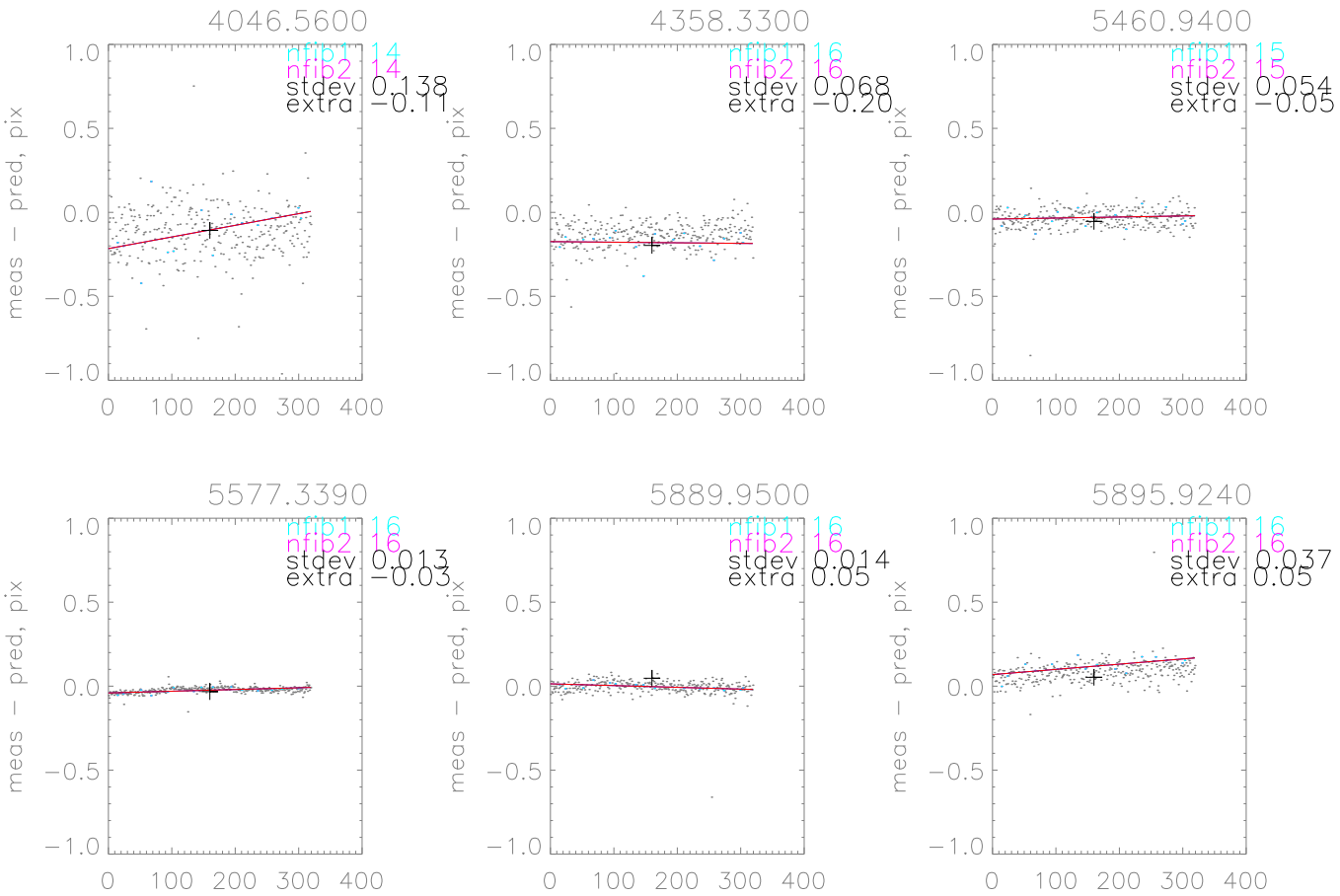

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

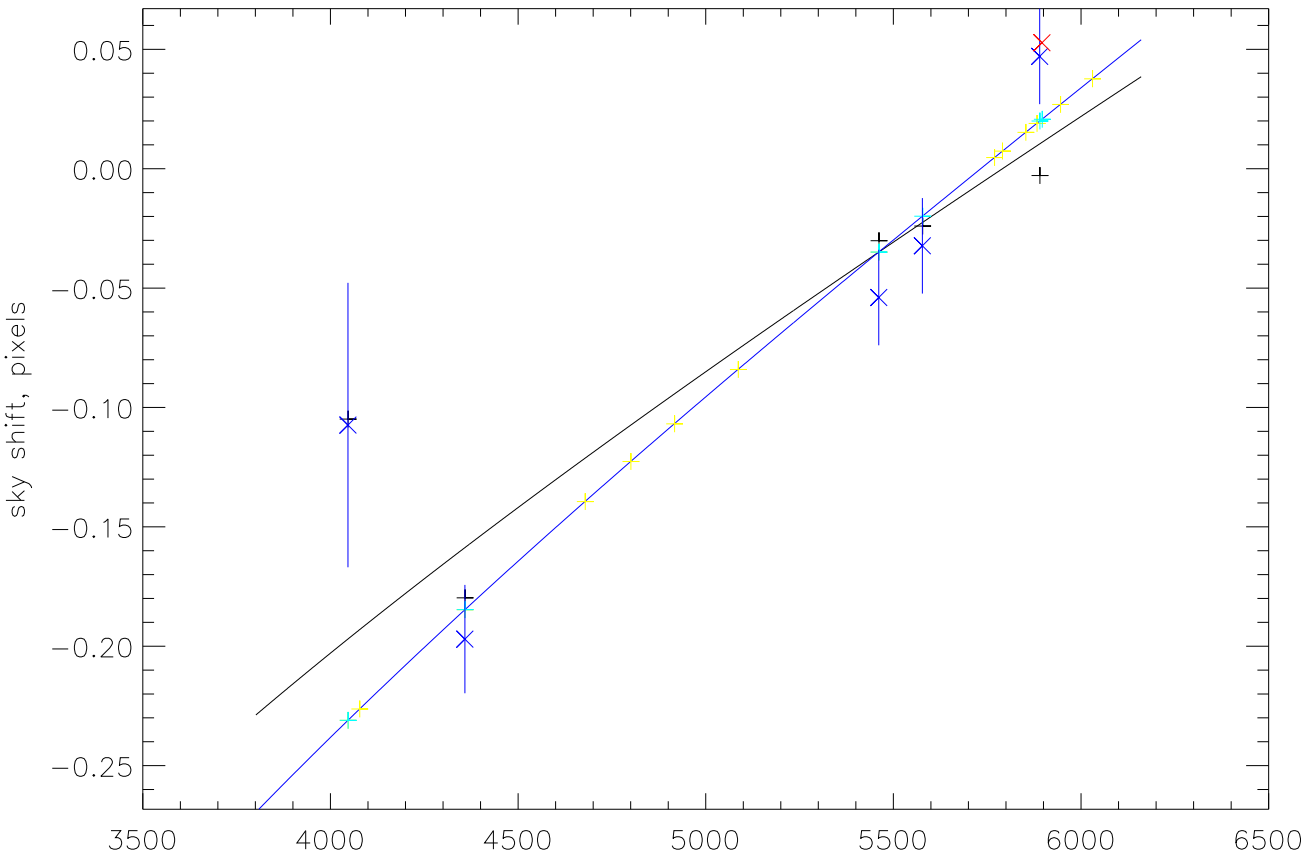

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

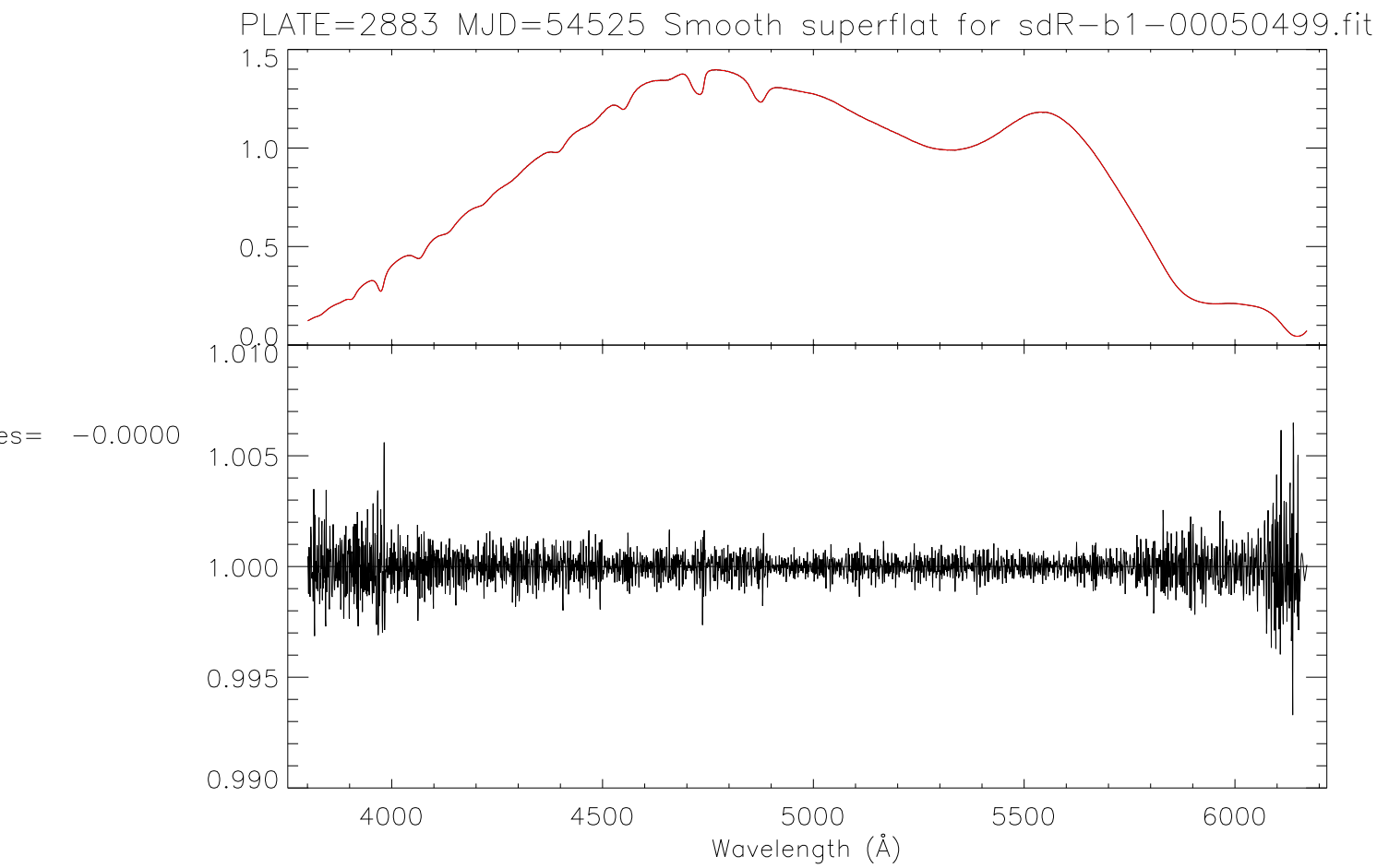

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

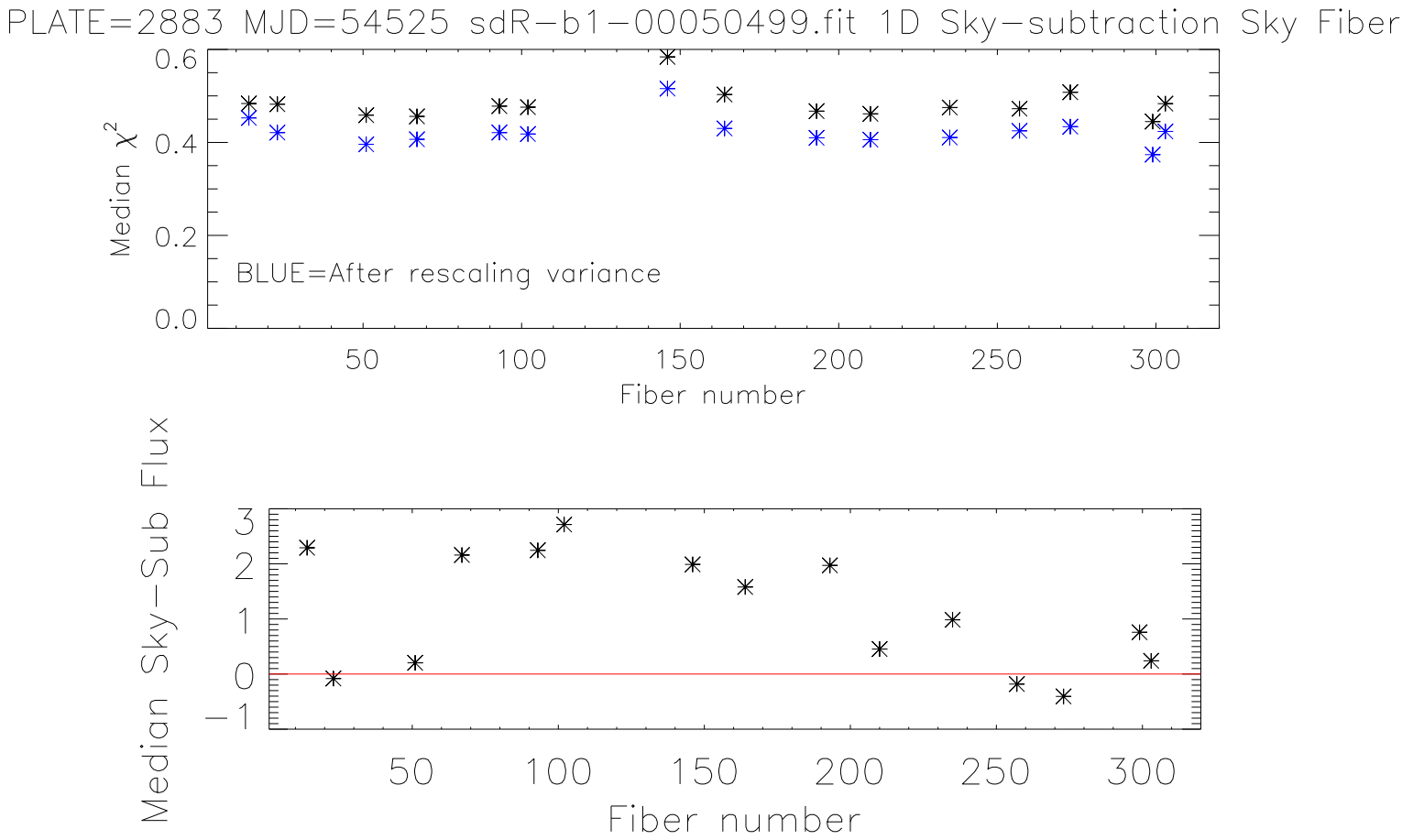

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

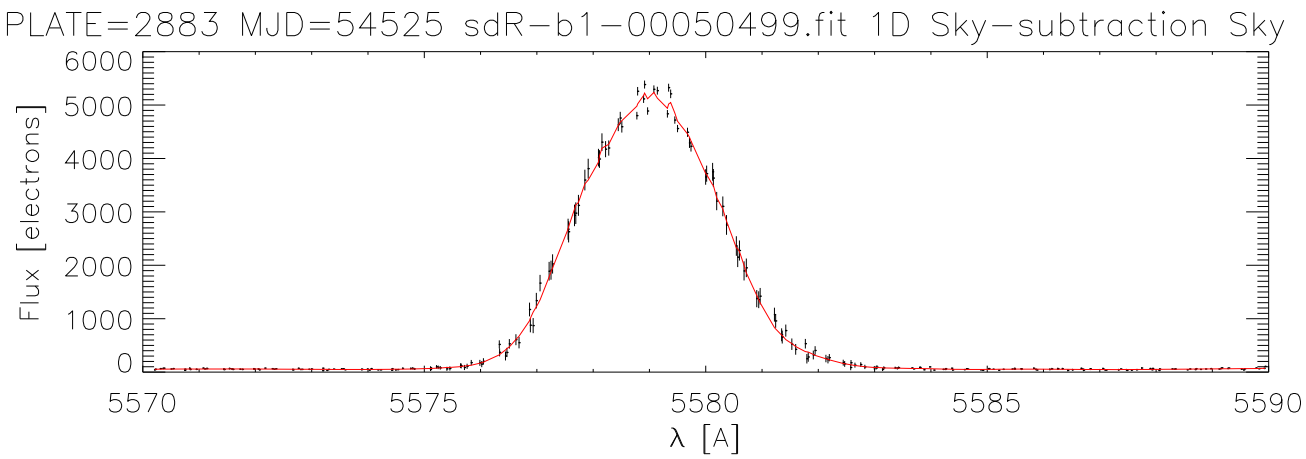

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

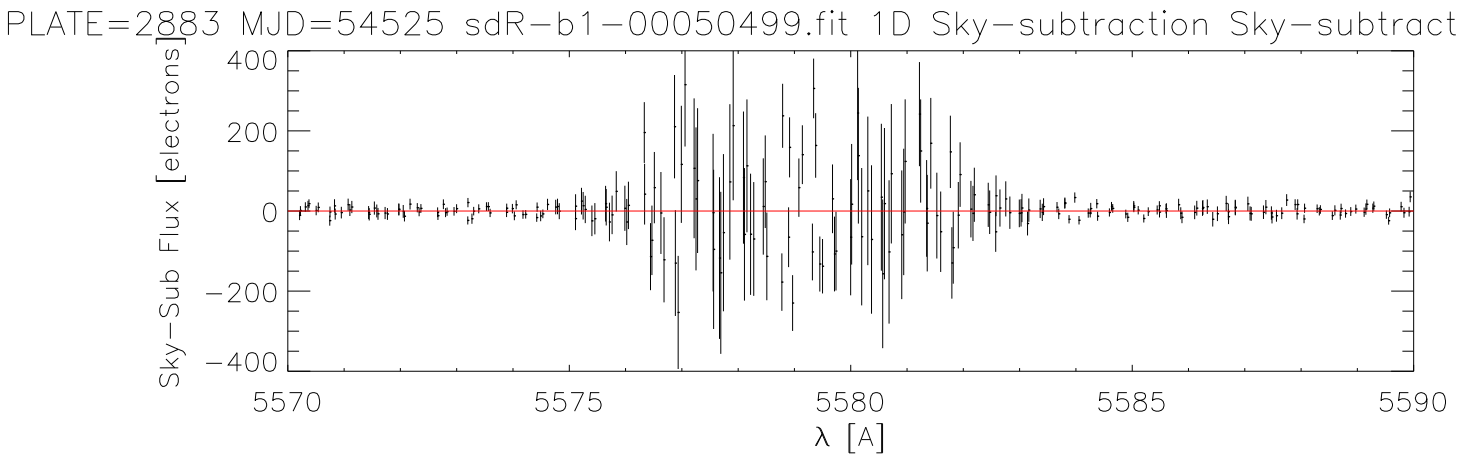

4046.5600
nfib1 14
nfib2 14
stdev 0.138
extra −0.11
4358.3300
nfib1 16
nfib2 16
stdev 0.068
extra −0.20
5460.9400
nfib1 15
nfib2 15
stdev 0.054
extra −0.05
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra −0.03
5889.9500
nfib1 16
nfib2 16
stdev 0.014
extra 0.05
5895.9240
nfib1 16
nfib2 16
stdev 0.037
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

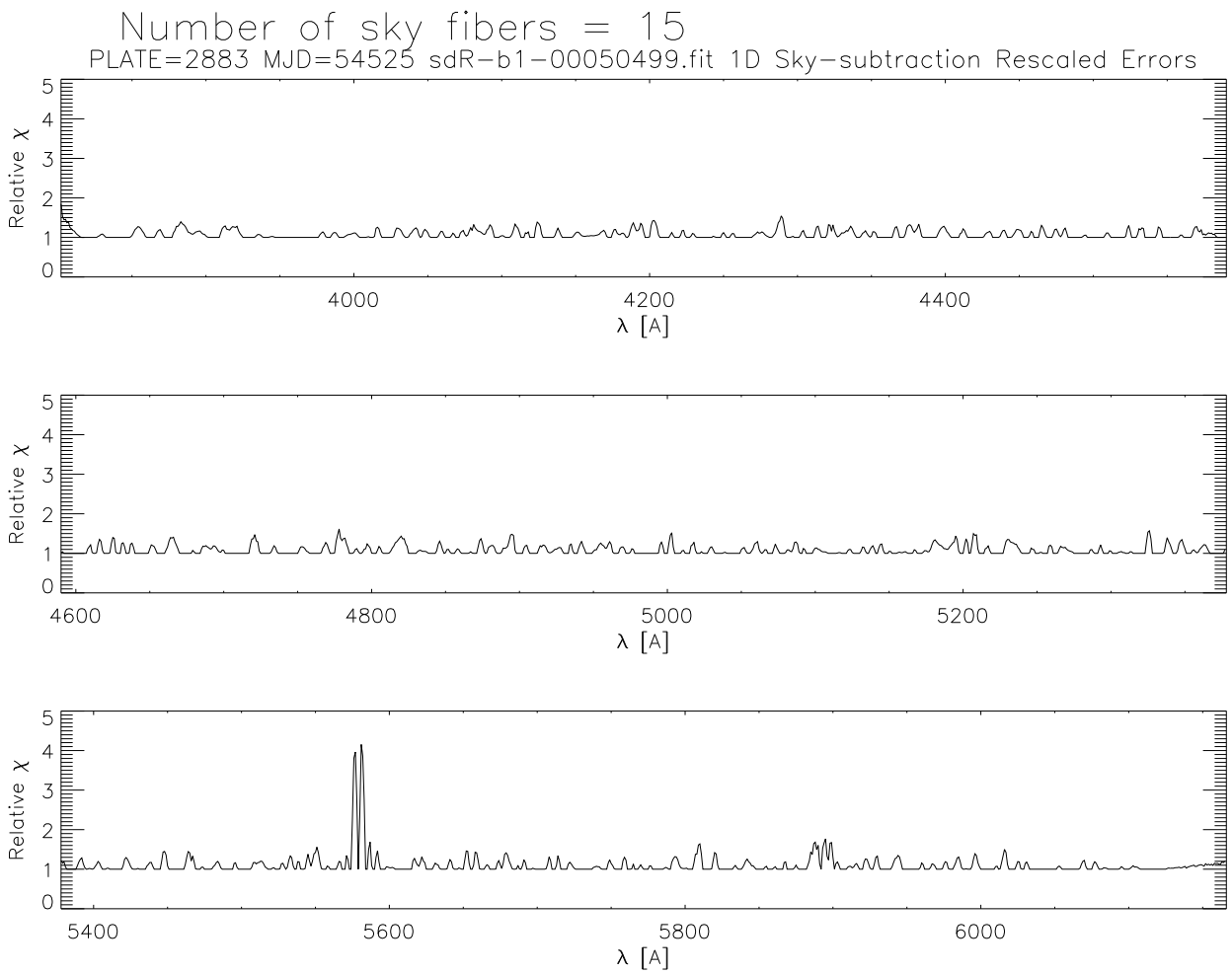

0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

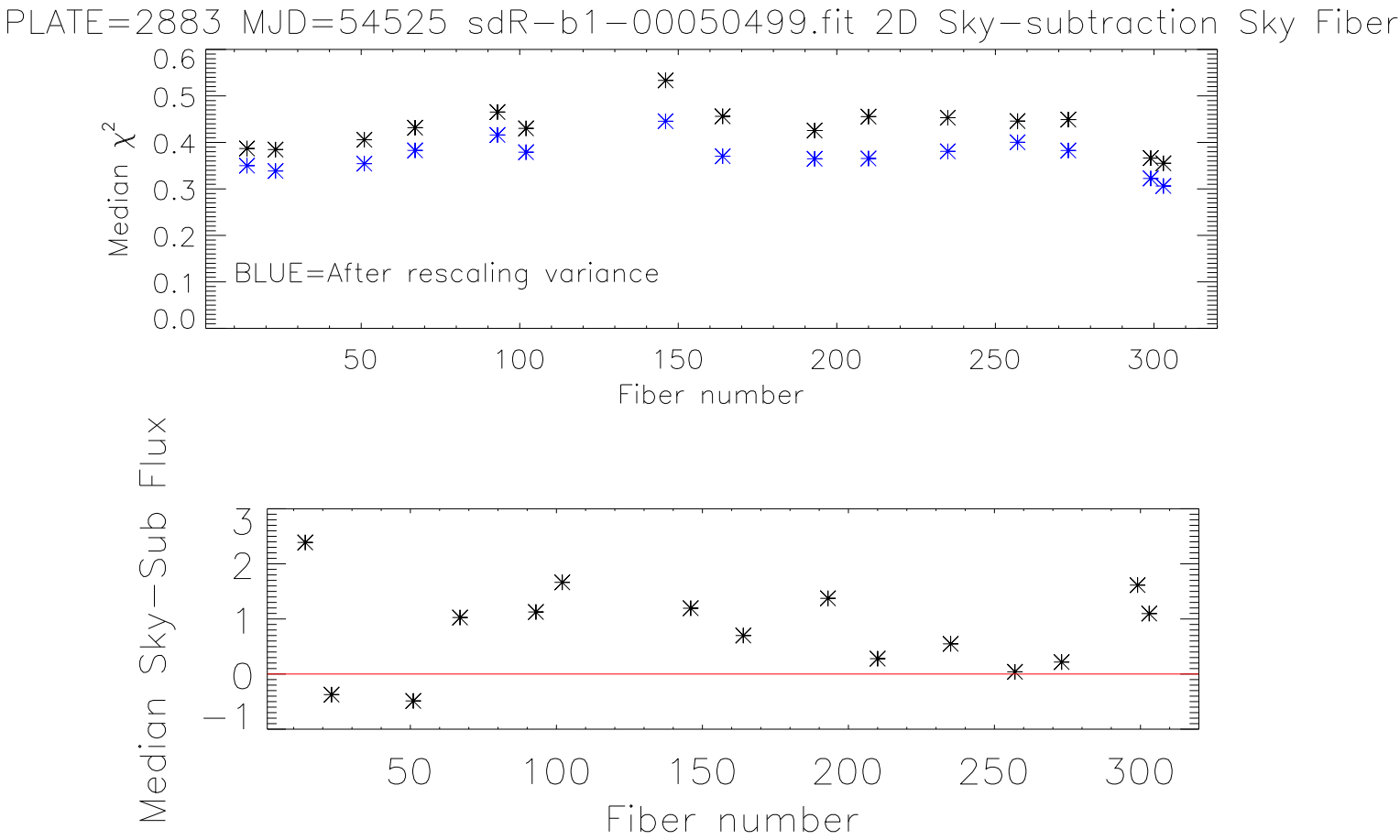

PLATE=2883 MJD=54525 Smooth superflat for sdR-b1-00050499.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

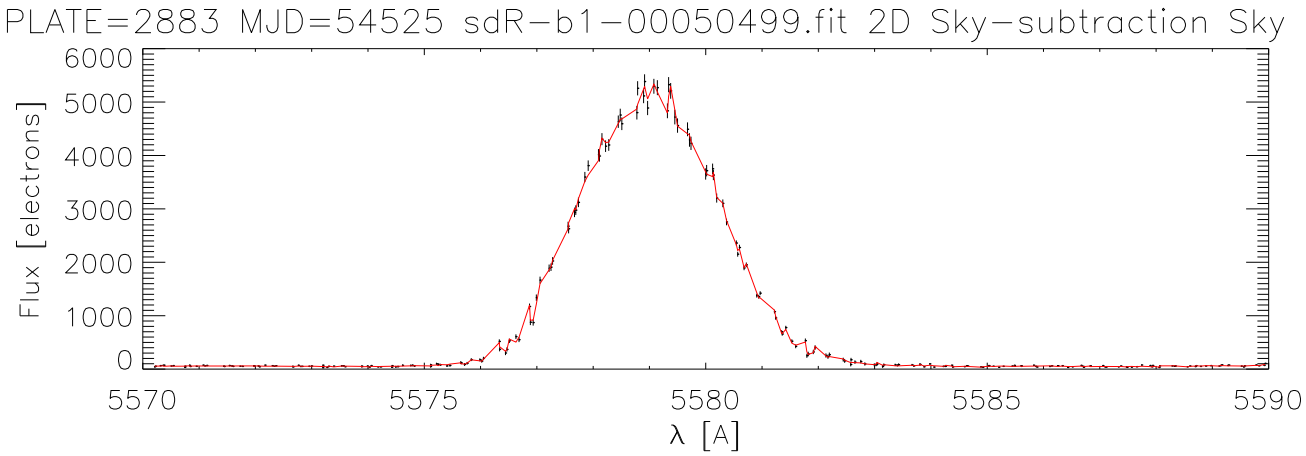

PLATE=2883 MJD=54525 sdR-b1-00050499.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

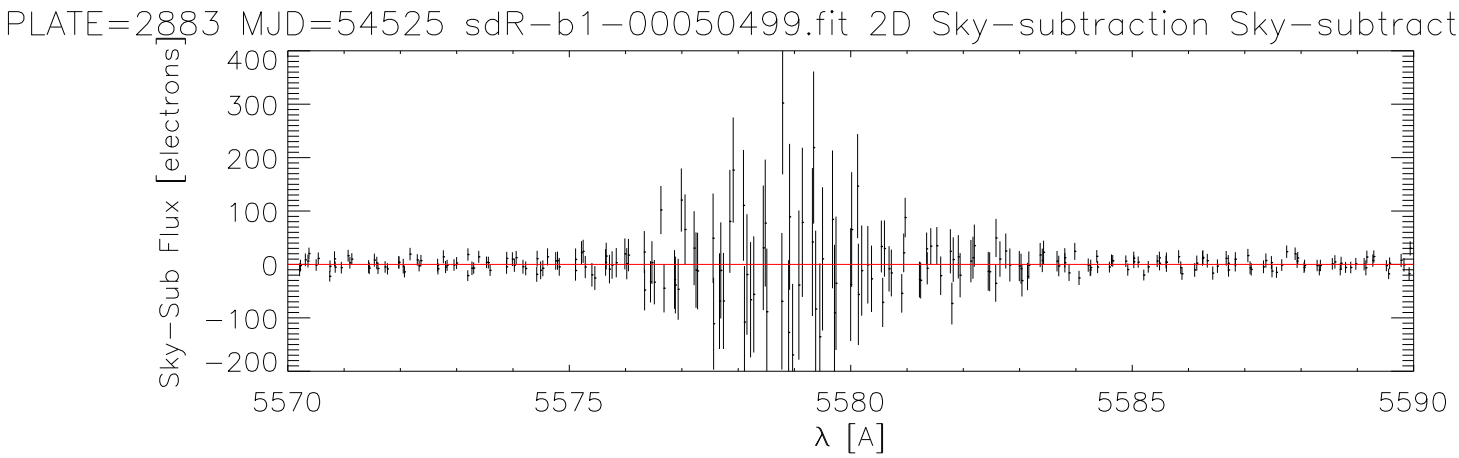

PLATE=2883 MJD=54525 sdR-b1-00050499.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

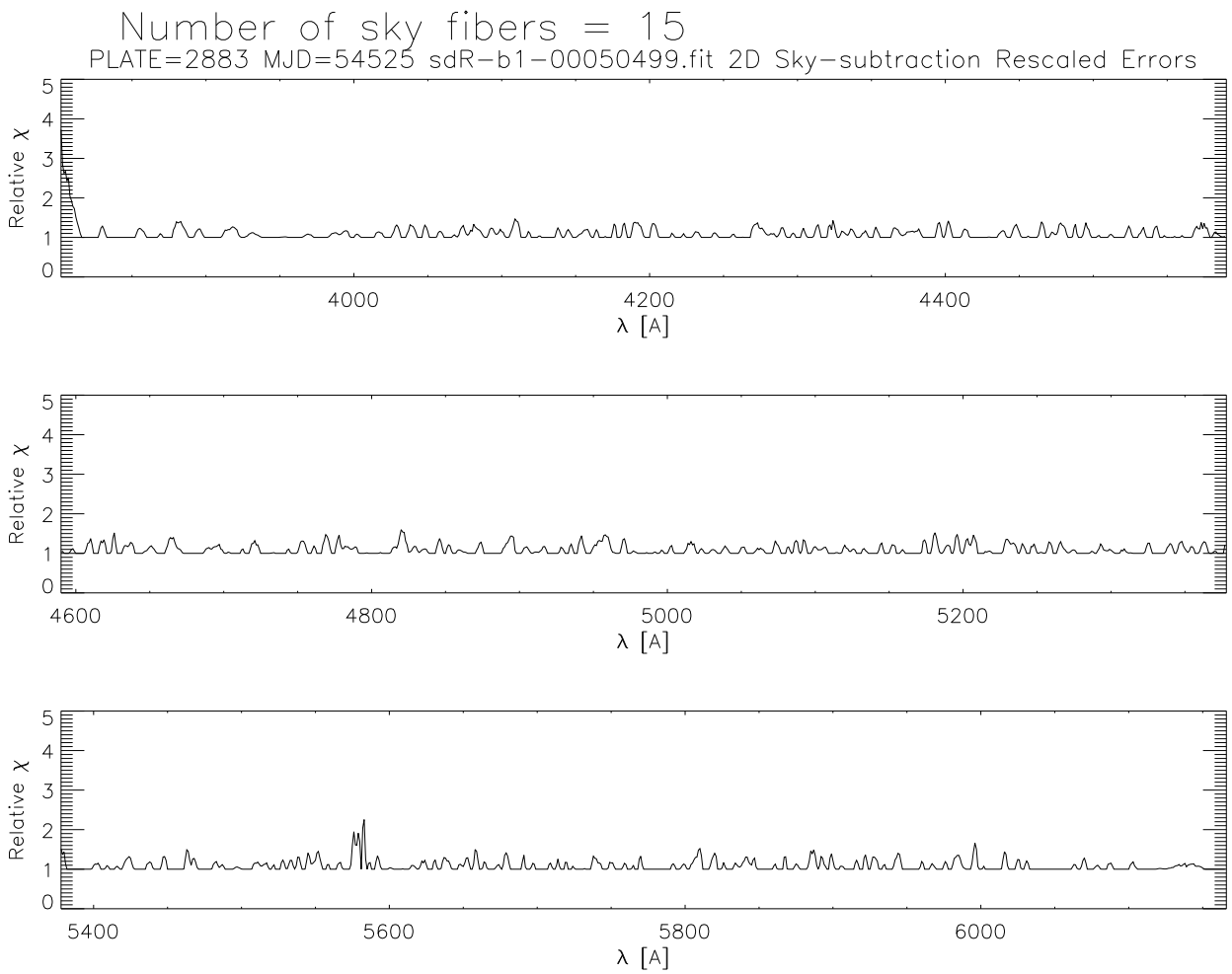

PLATE=2883 MJD=54525 sdR-b1-00050499.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

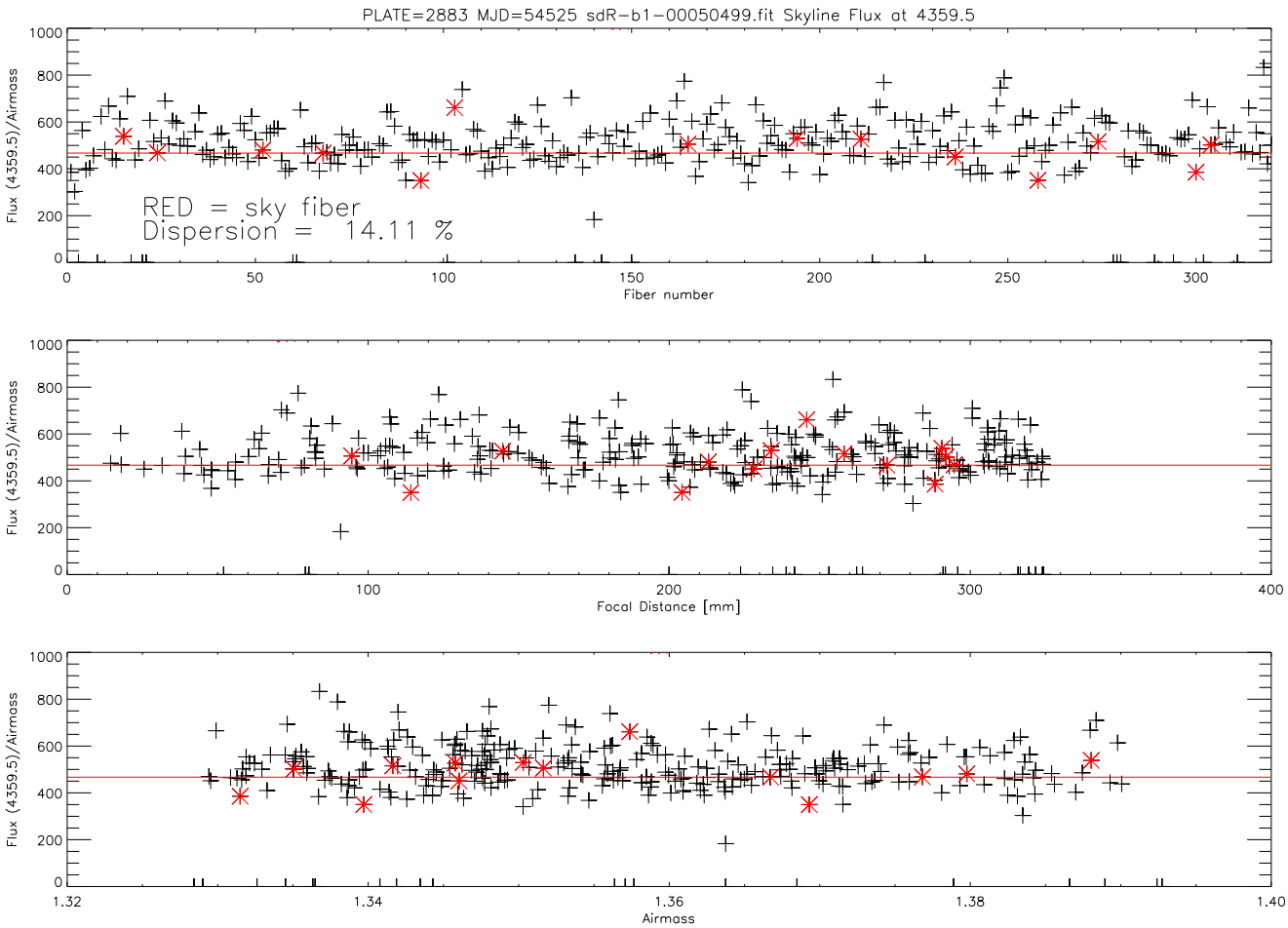

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-b1-00050499.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

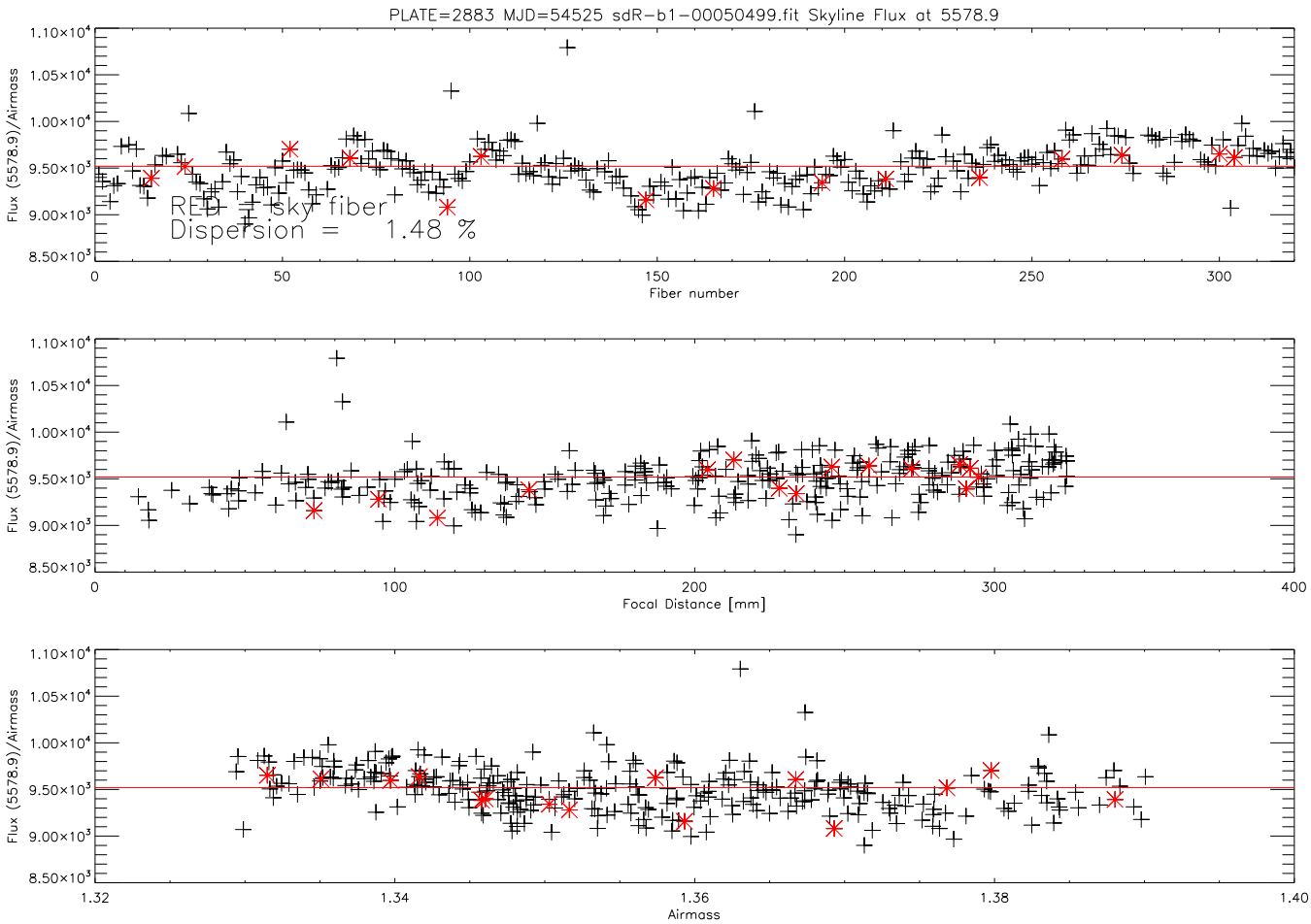

PLATE=2883 MJD=54525 sdR-b1-00050499.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

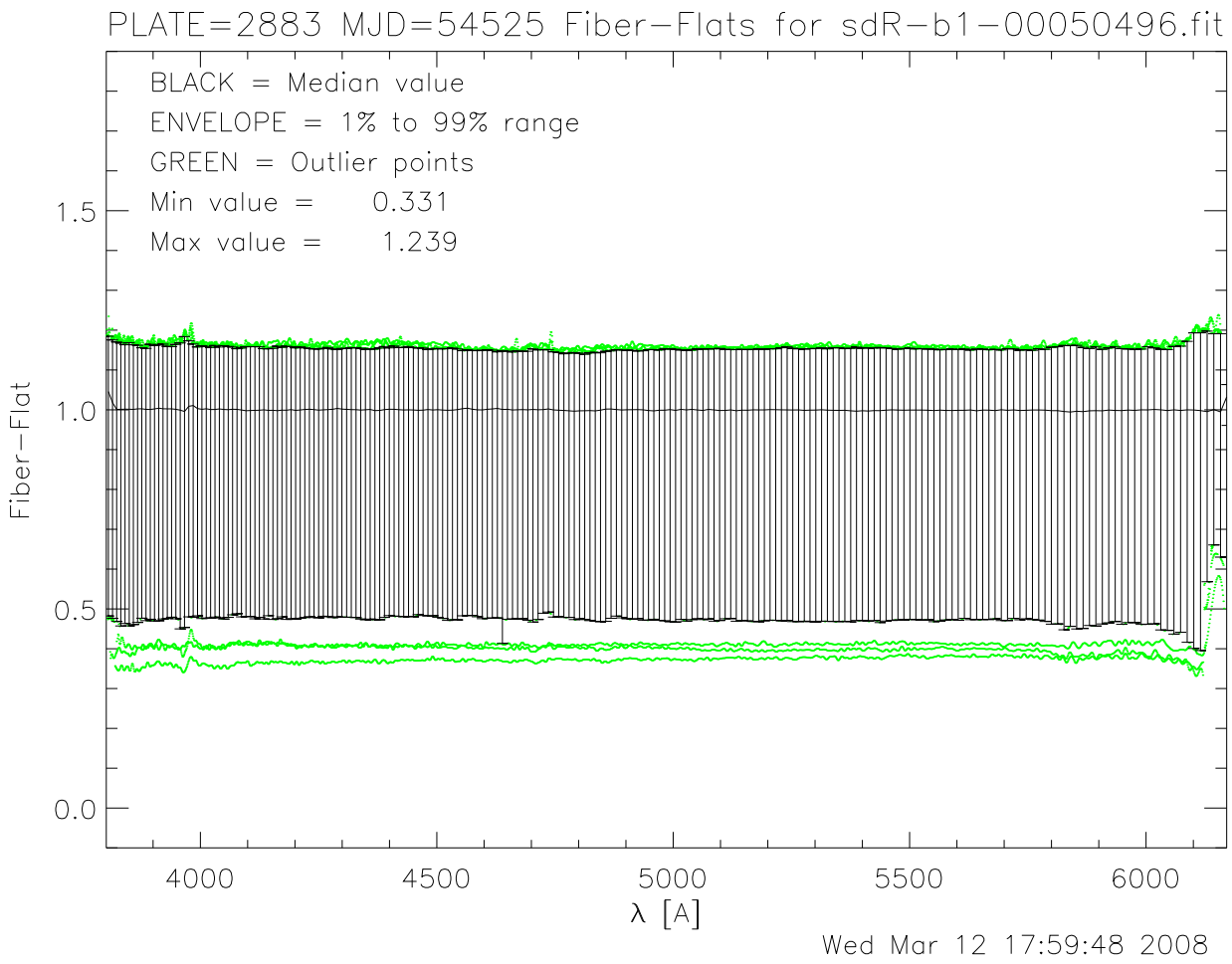

PLATE=2883 MJD=54525 sdR-b1-00050499.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

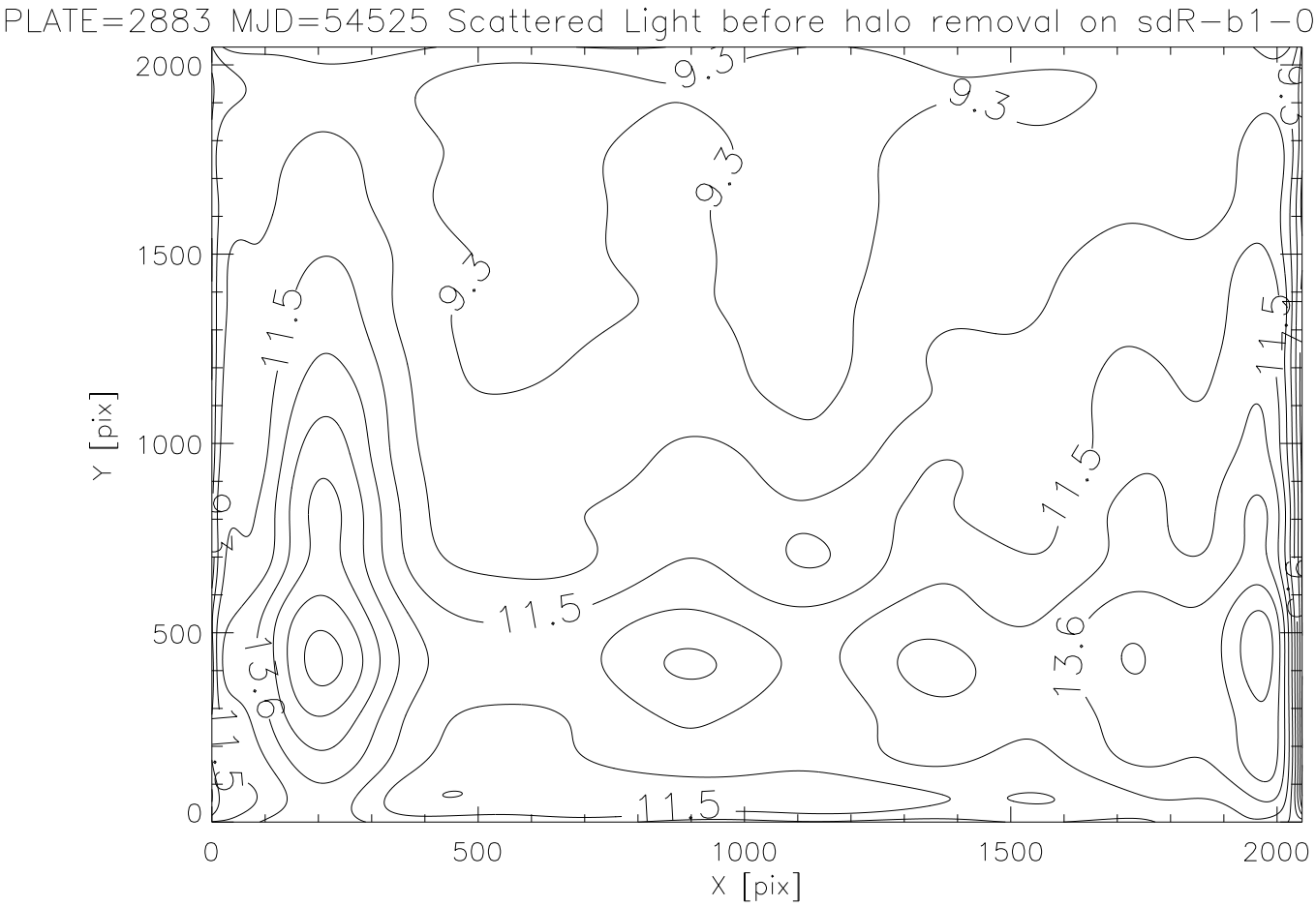

PLATE=2883 MJD=54525 sdR-b1-00050499.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

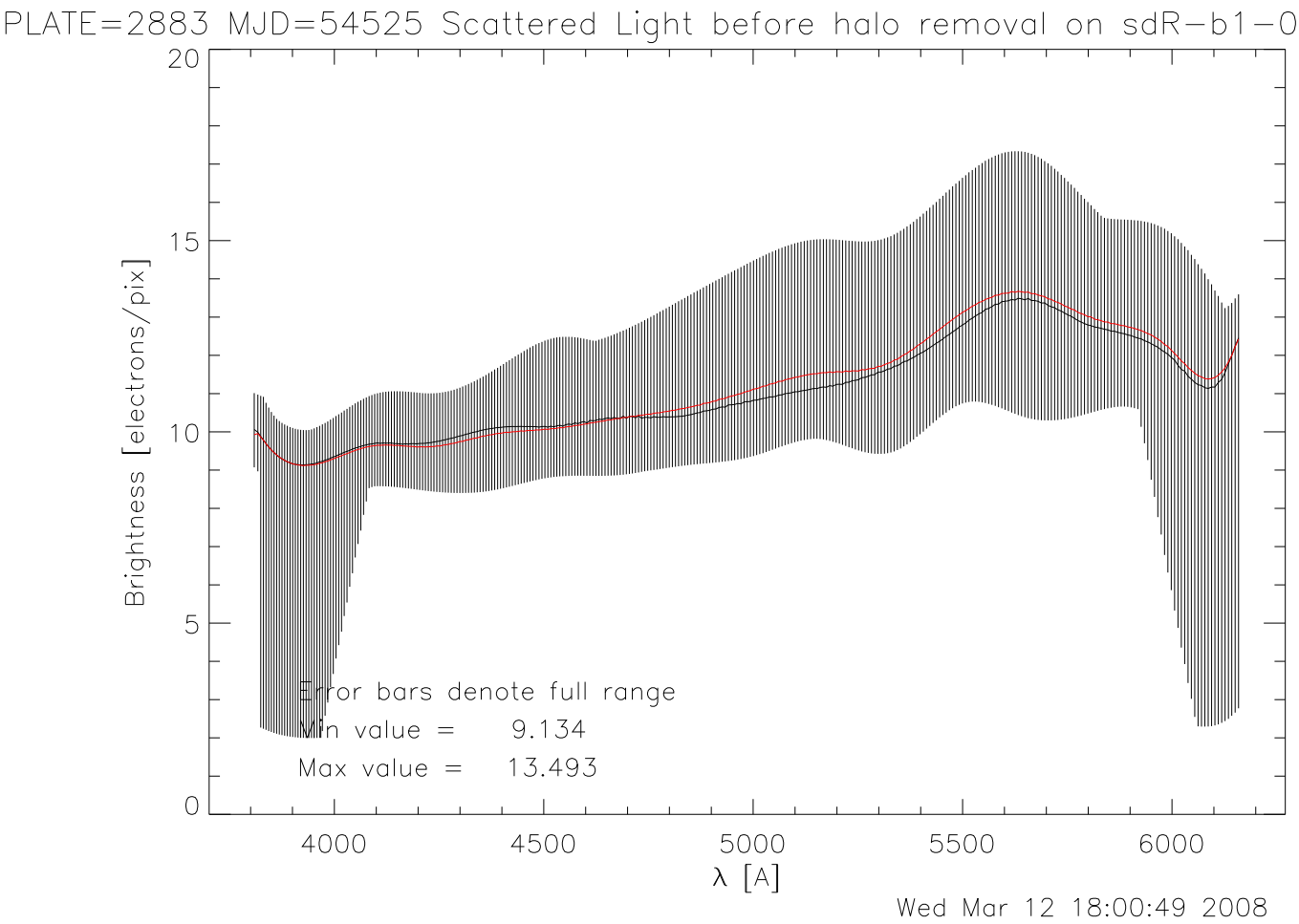

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-b1-00050499.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

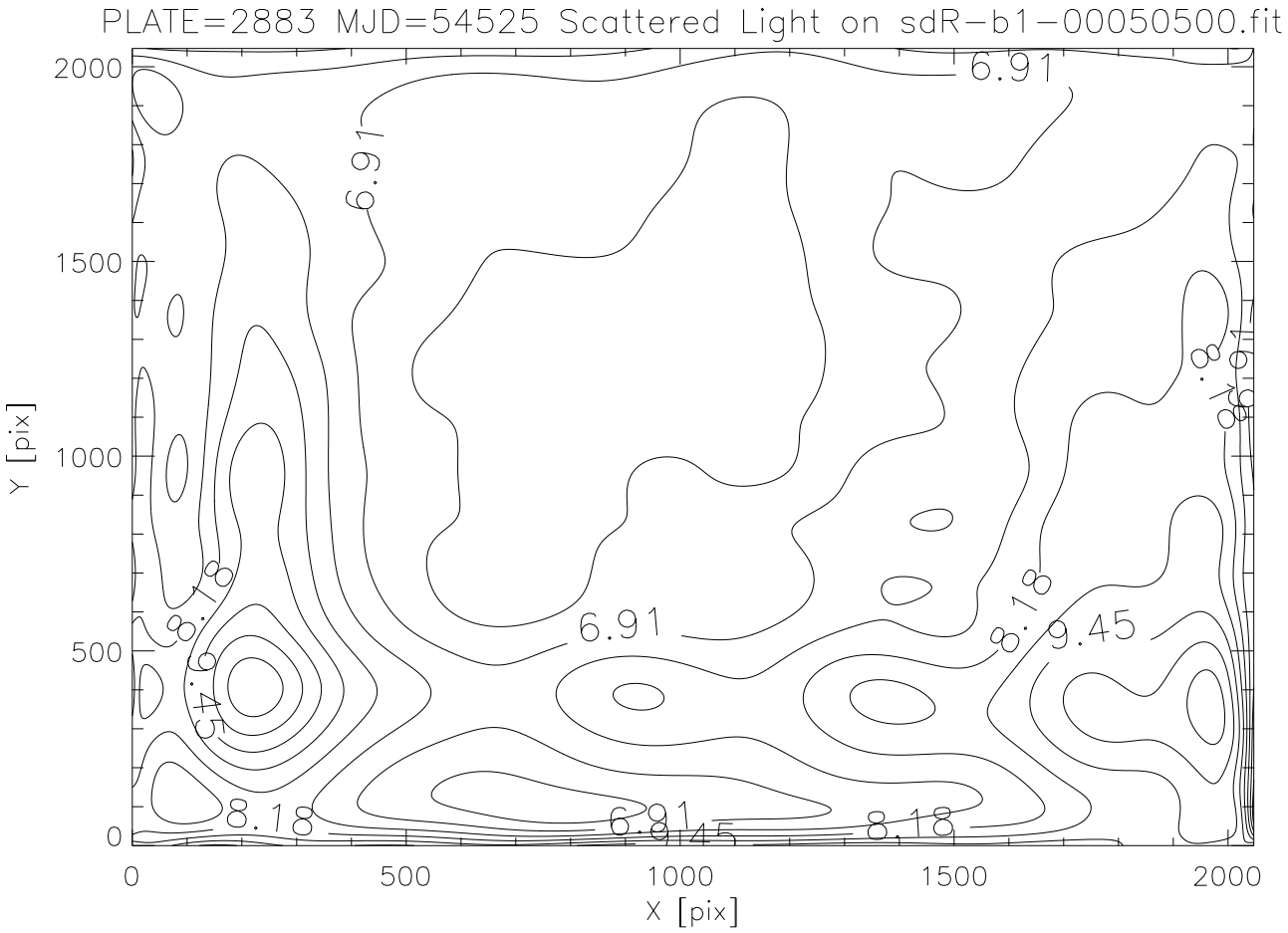

PLATE=2883 MJD=54525 sdR-b1-00050499.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.11 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

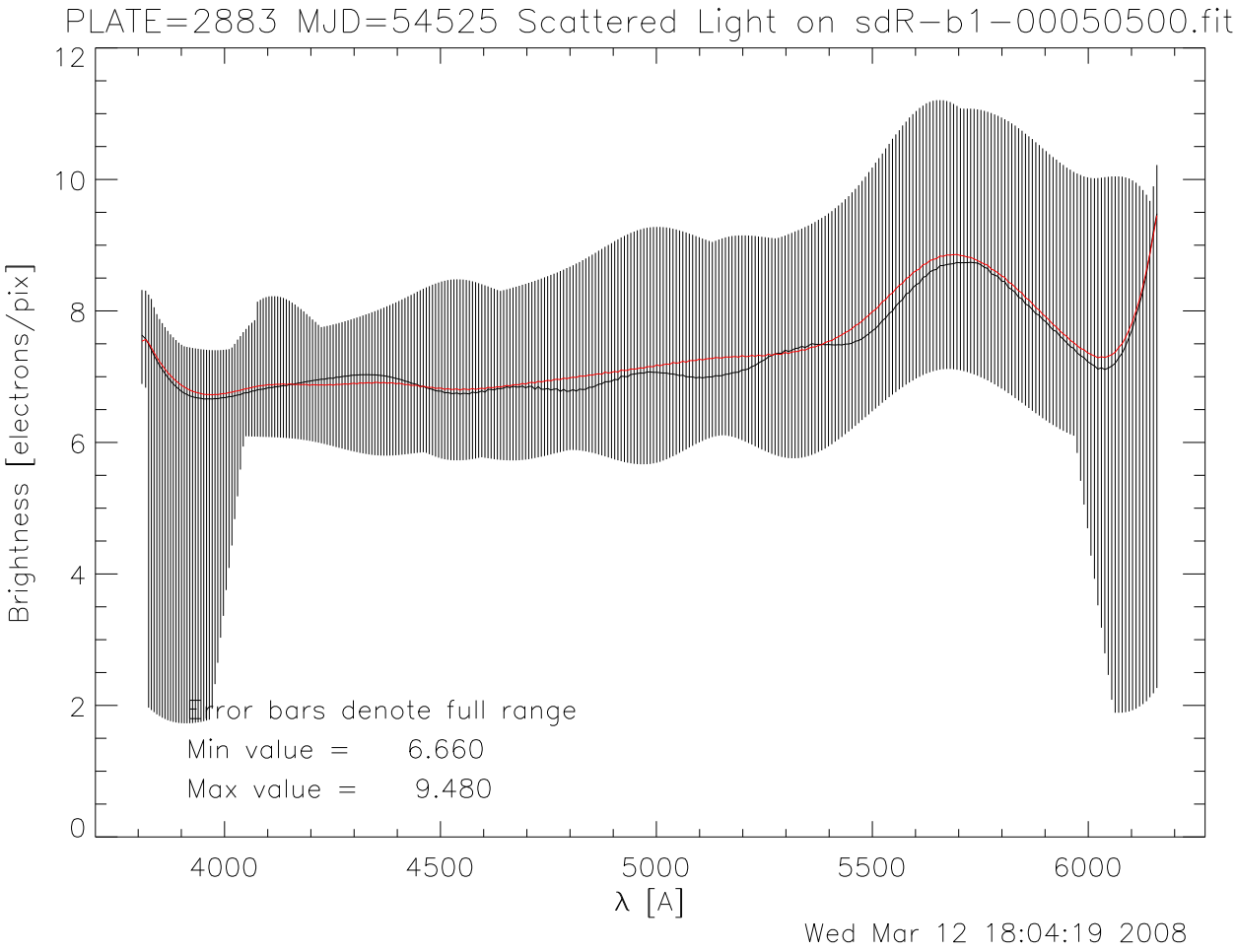

PLATE=2883 MJD=54525 sdR-b1-00050499.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.48 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

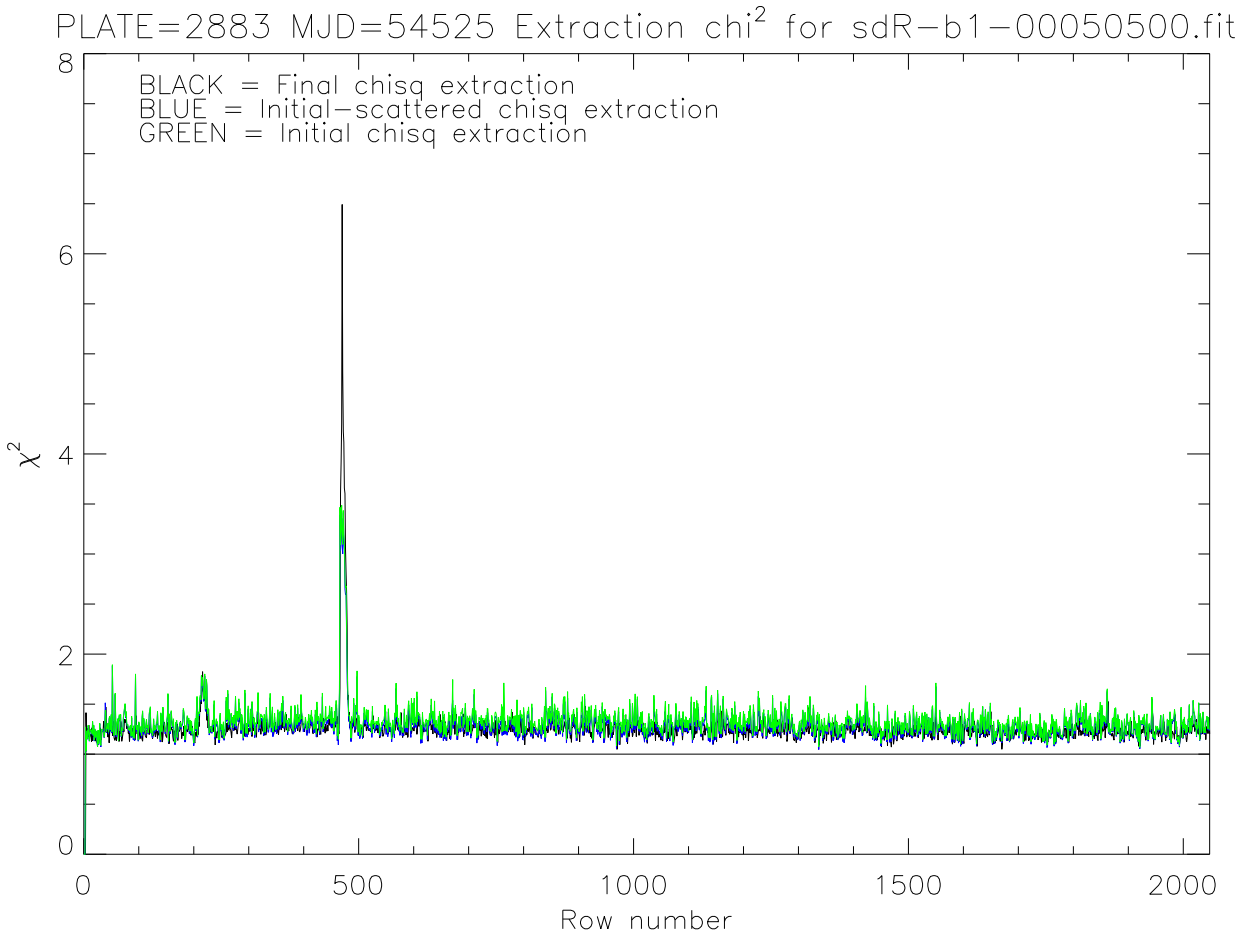

PLATE=2883 MJD=54525 Fiber−Flats for sdR−b1−00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.331
Max value = 1.239
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 17:59:48 2008

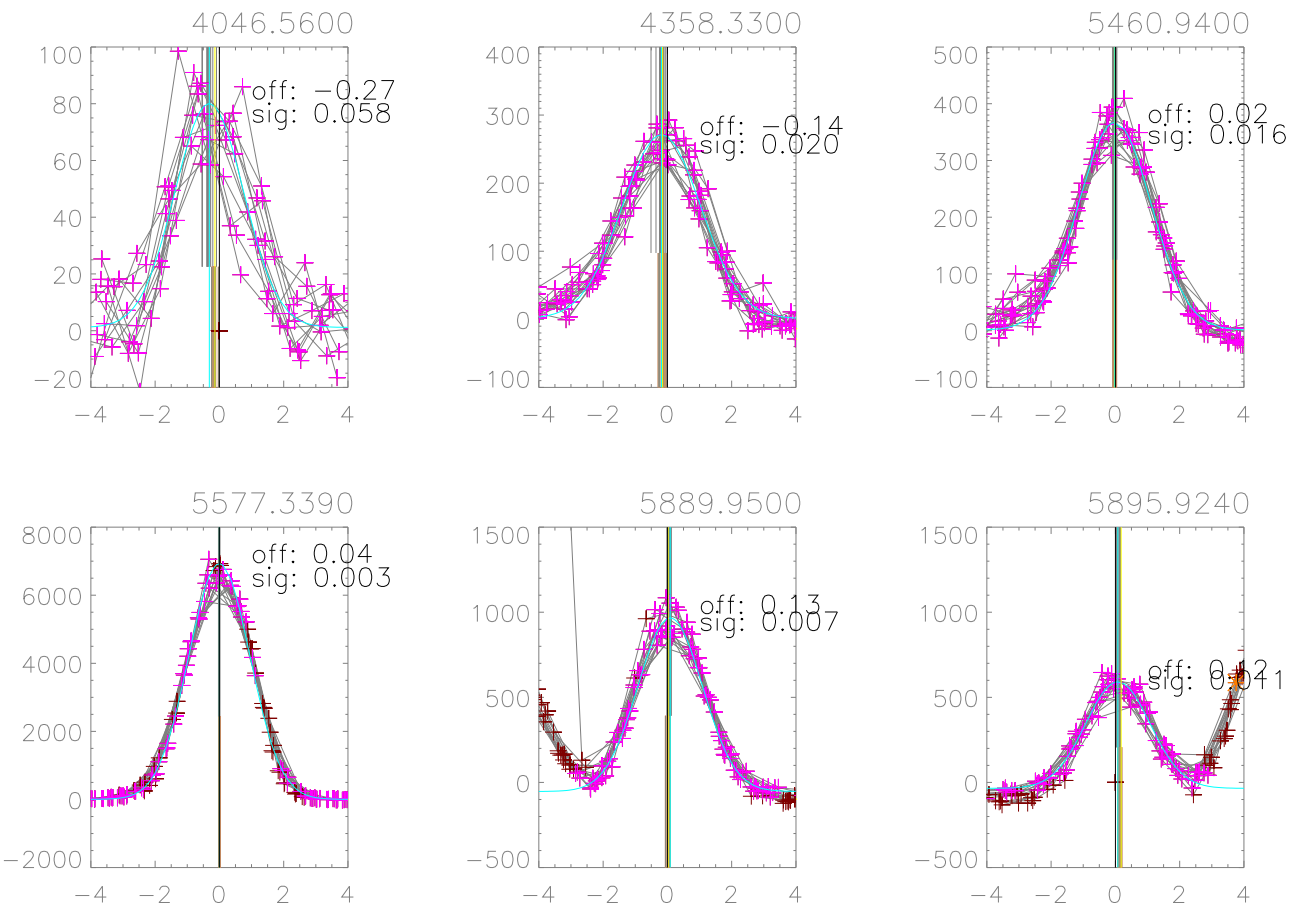

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR−b1−00050500.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.3
11.5
13.6

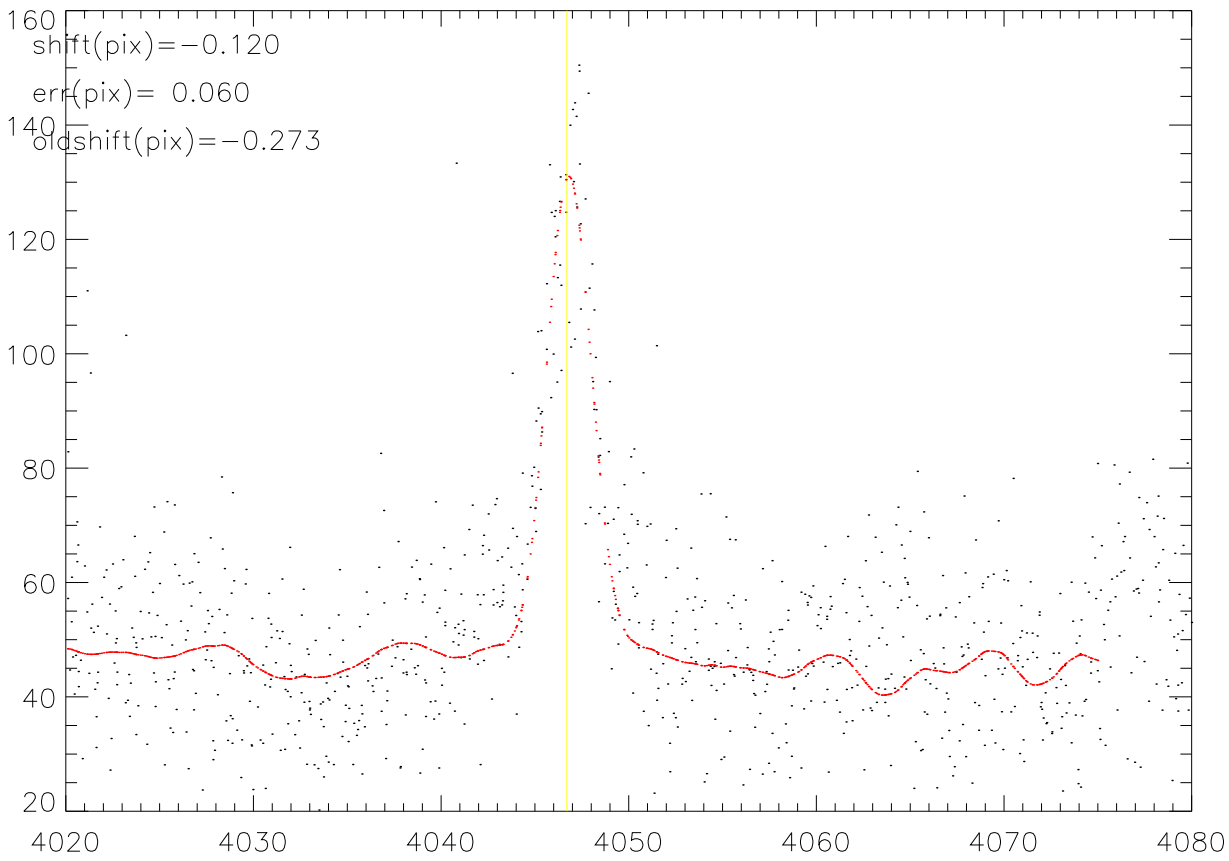

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b1-00050500.f
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.134
Max value = 13.493
Wed Mar 12 18:00:49 2008

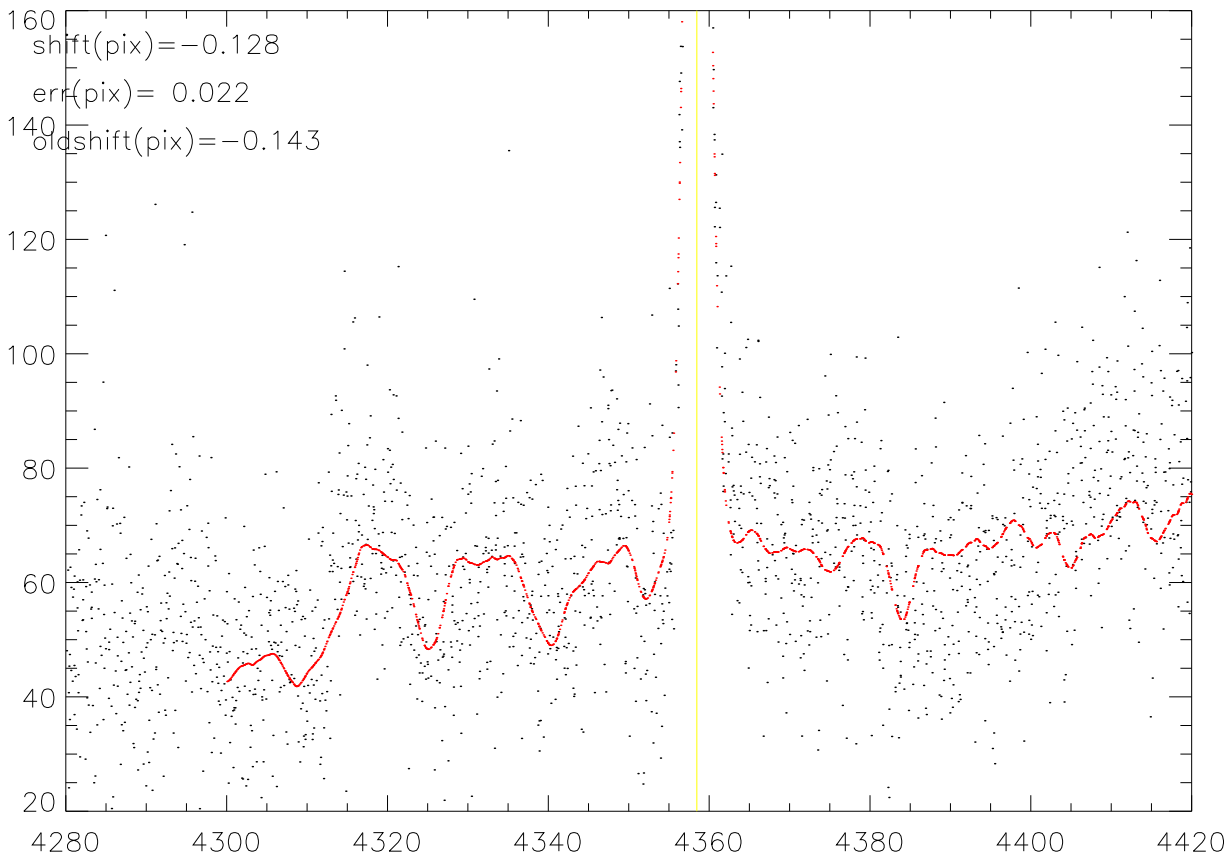

PLATE=2883 MJD=54525 Scattered Light on sdR-b1-00050500.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.91
8.18
9.45

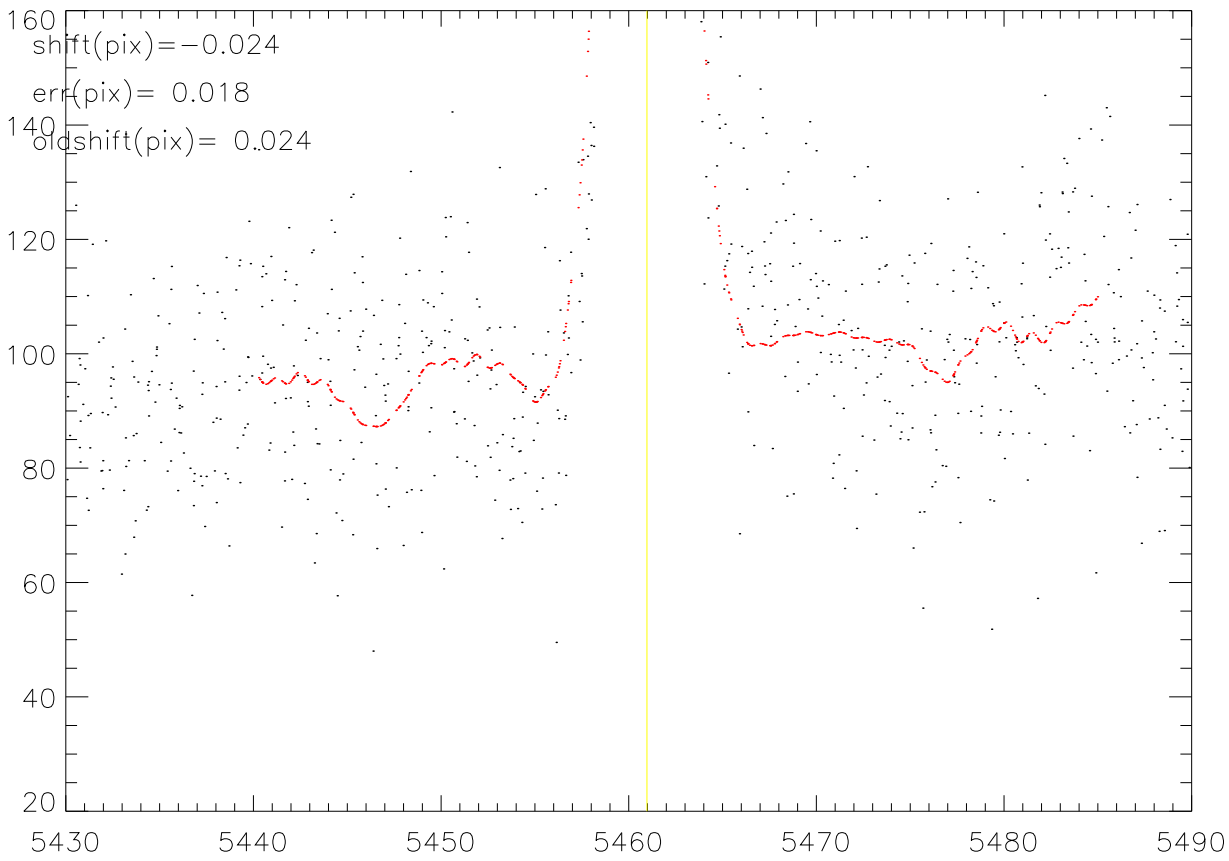

PLATE=2883 MJD=54525 Scattered Light on sdR-b1-00050500.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.660
Max value = 9.480
Wed Mar 12 18:04:19 2008

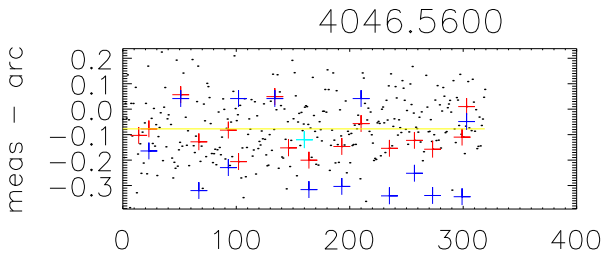

PLATE=2883 MJD=54525 Extraction chi^2 for sdR-b1-00050500.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

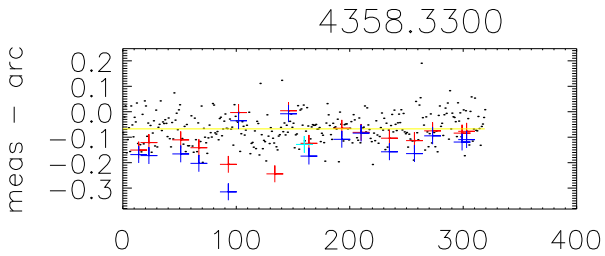

4046.5600
off: −0.27
sig: 0.058
4358.3300
off: −0.14
sig: 0.020
5460.9400
off: 0.02
sig: 0.016
5577.3390
off: 0.04
sig: 0.003
5889.9500
off: 0.13
sig: 0.007
5895.9240
off: 0.12
sig: 0.011

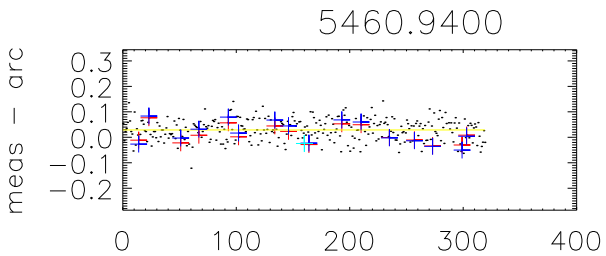

shift(pix)=−0.120
err(pix)= 0.060
oldshift(pix)=−0.273
160
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

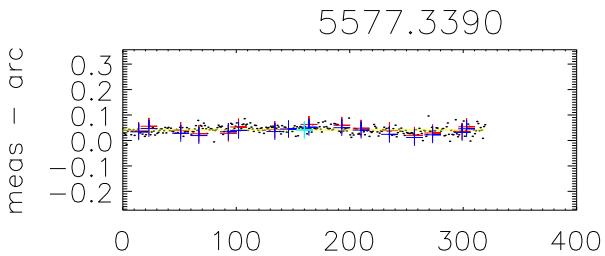

shift(pix)=−0.128
err(pix)= 0.022
oldshift(pix)=−0.143
160
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

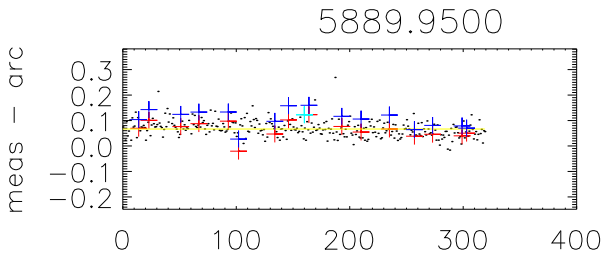

shift(pix)=−0.024
err(pix)= 0.018
oldshift(pix)= 0.024
160
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

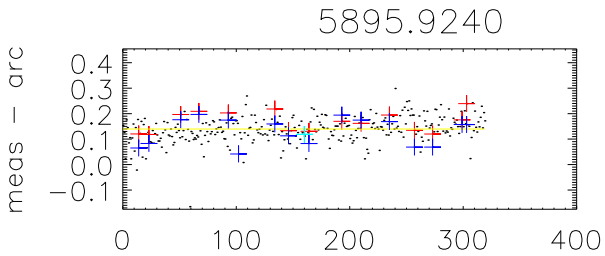

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

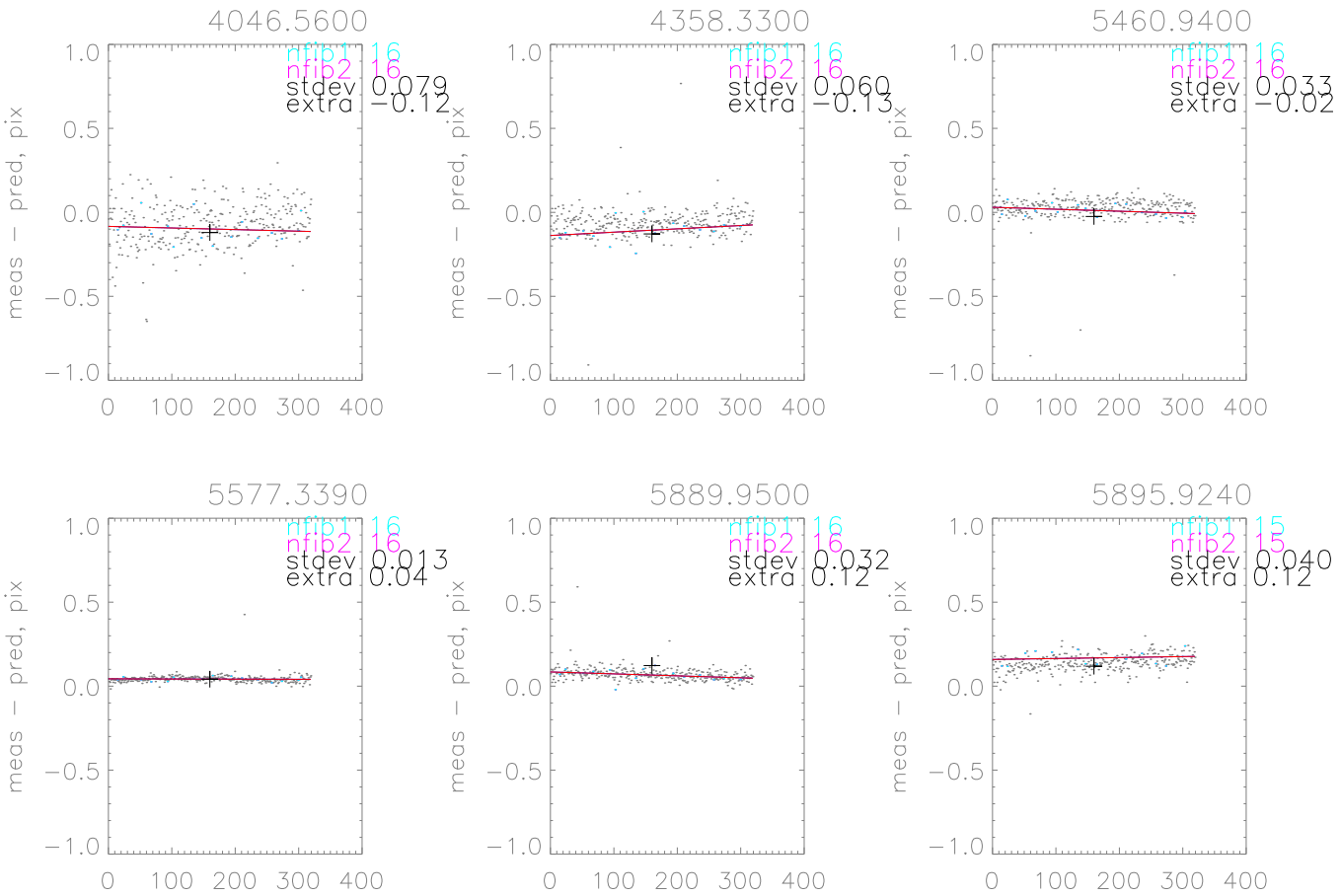

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

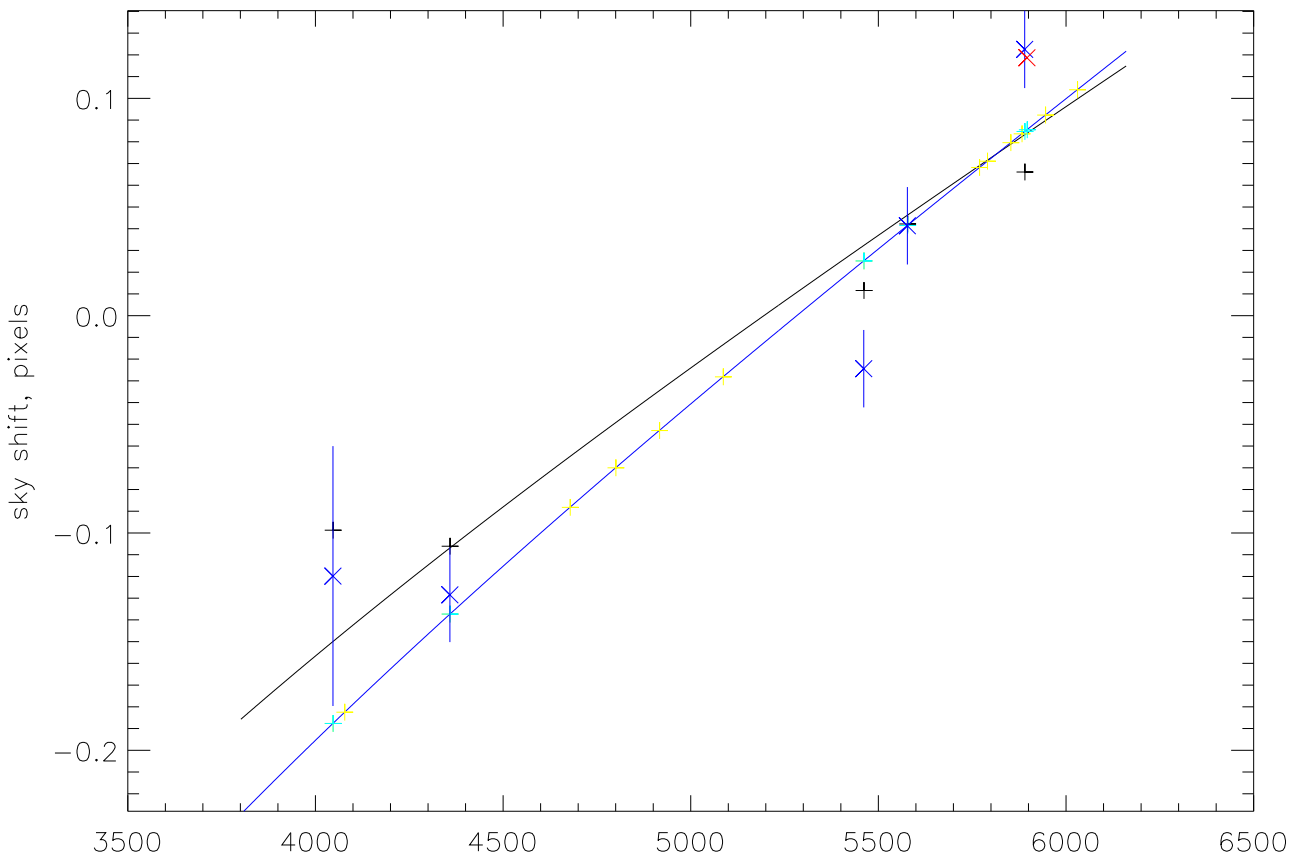

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

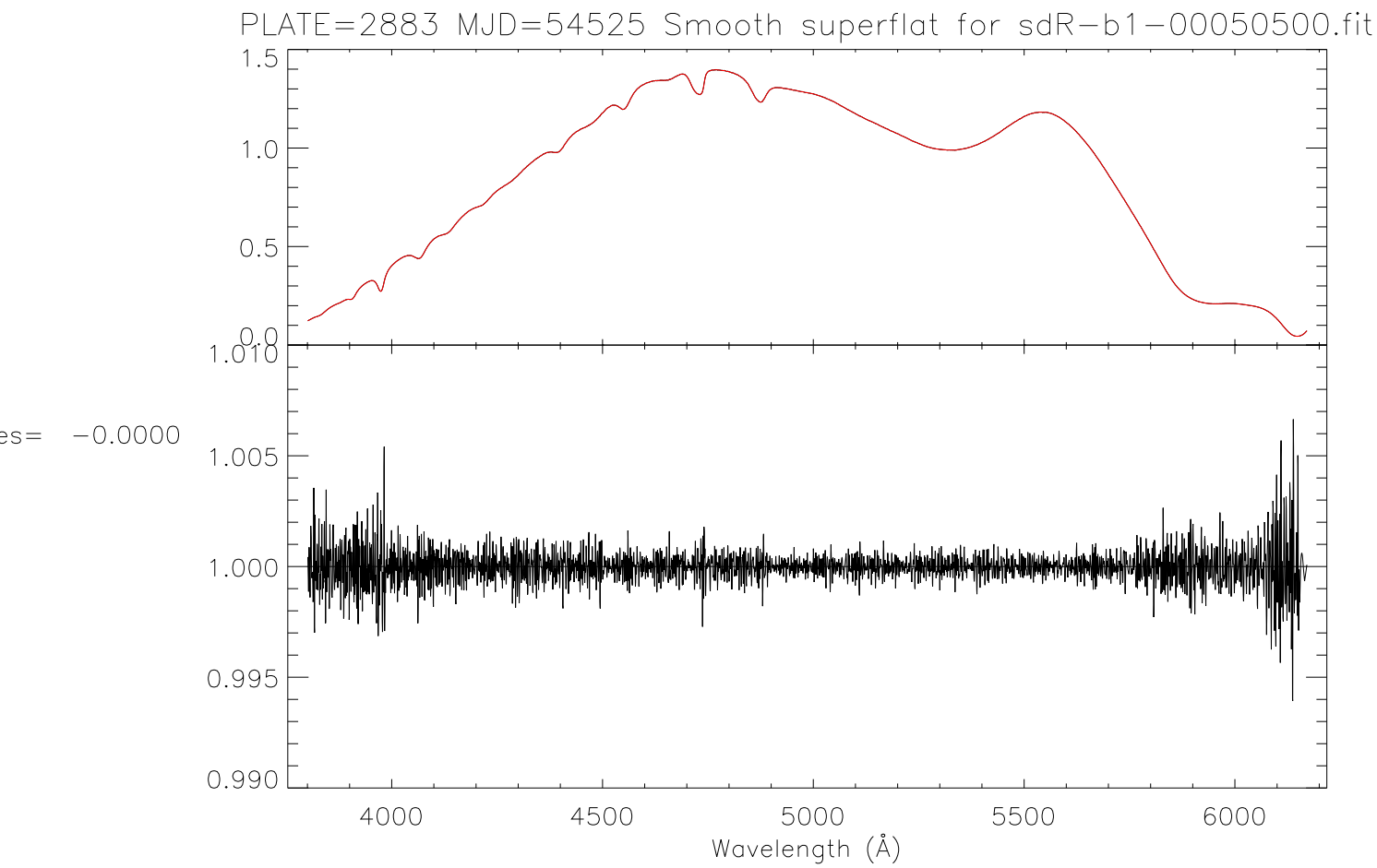

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

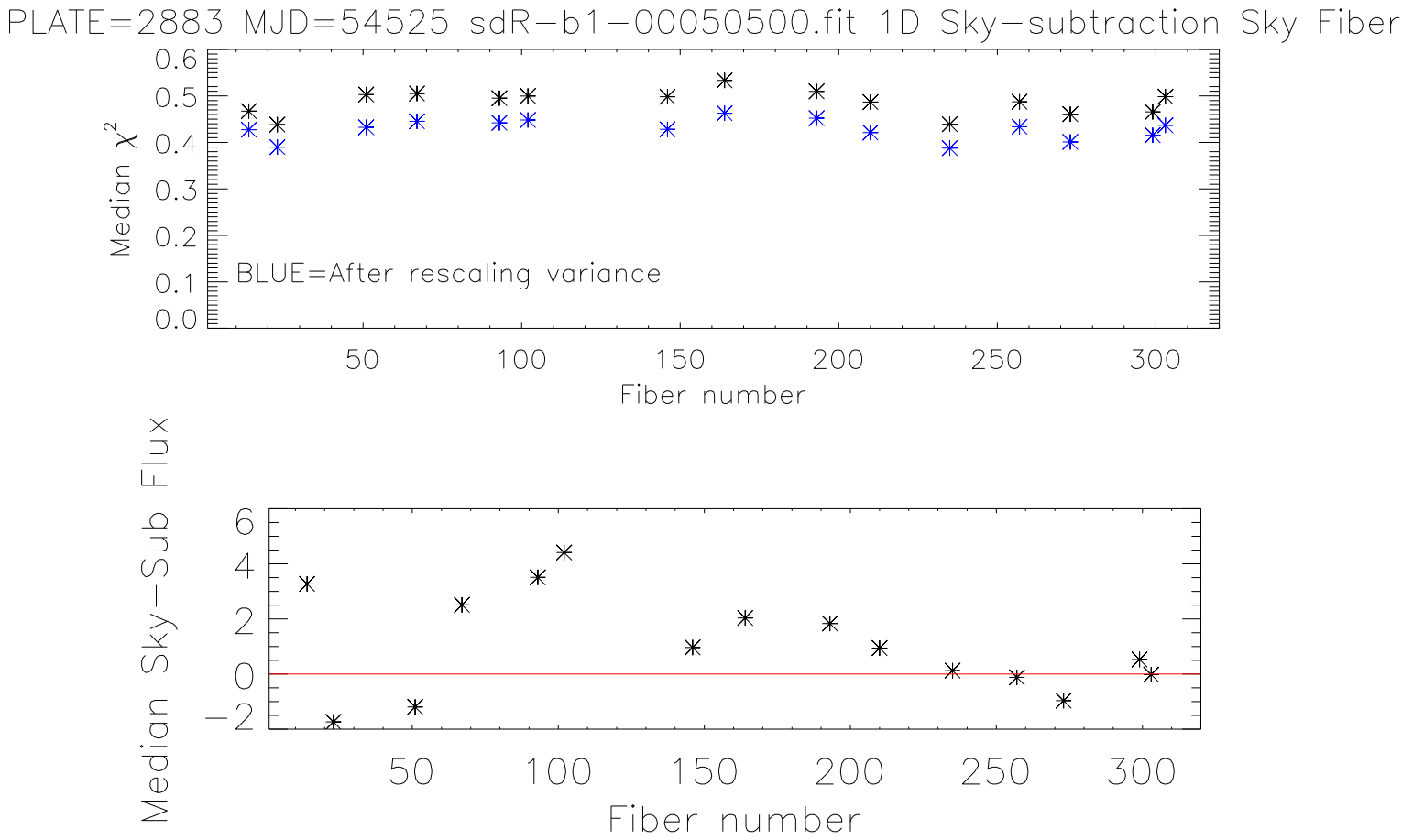

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

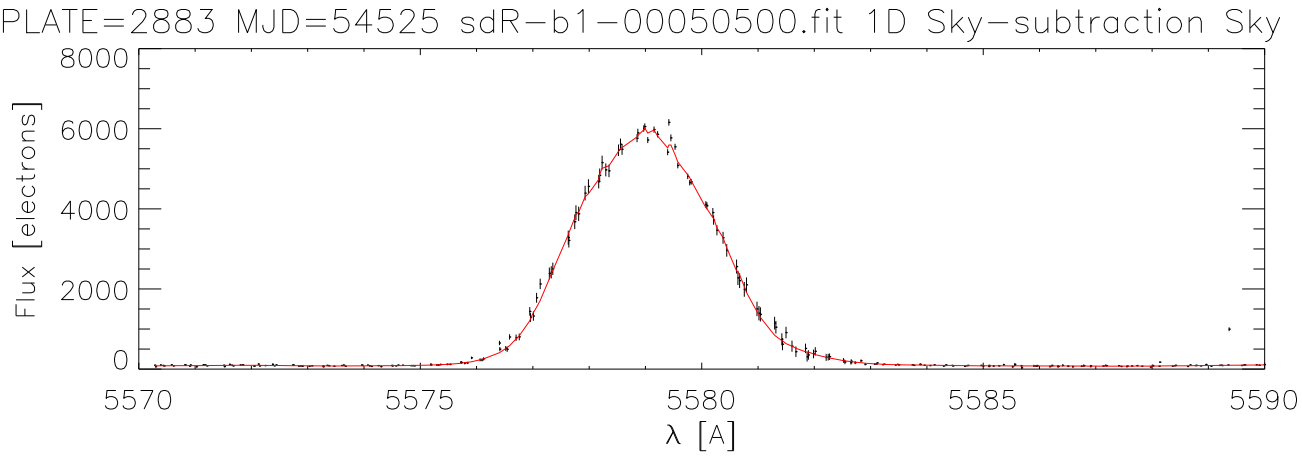

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

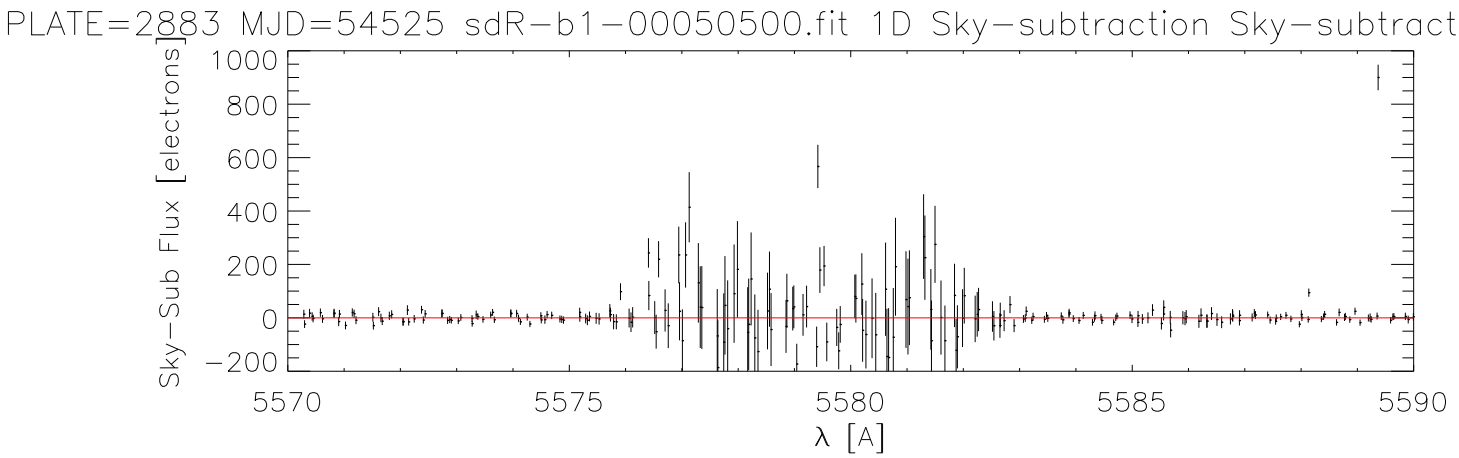

4046.5600
nfib1 16
nfib2 16
stdev 0.079
extra −0.12
4358.3300
nfib1 16
nfib2 16
stdev 0.060
extra −0.13
5460.9400
nfib1 16
nfib2 16
stdev 0.033
extra −0.02
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra 0.04
5889.9500
nfib1 16
nfib2 16
stdev 0.032
extra 0.12
5895.9240
nfib1 15
nfib2 15
stdev 0.040
extra 0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

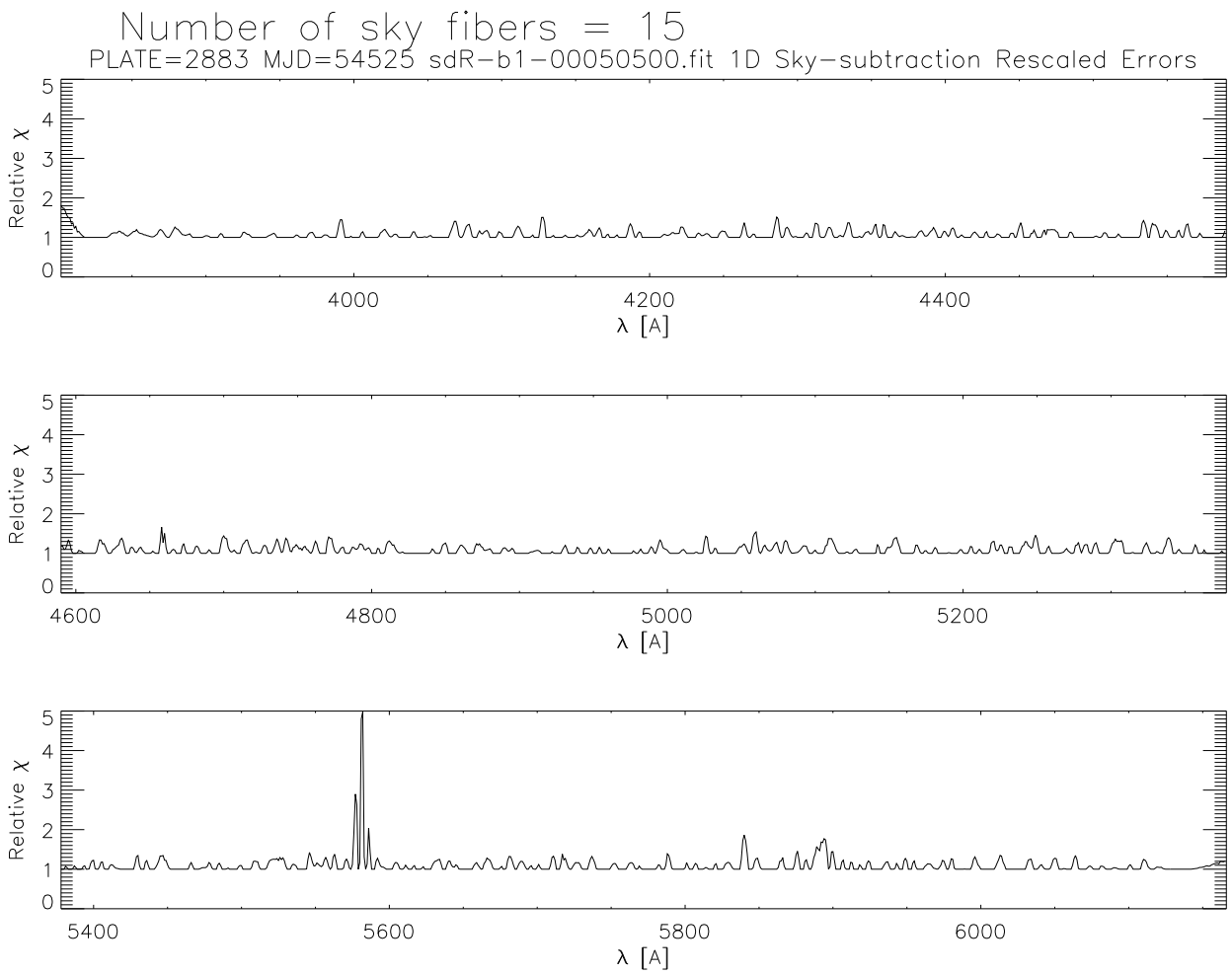

sky shift, pixels
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

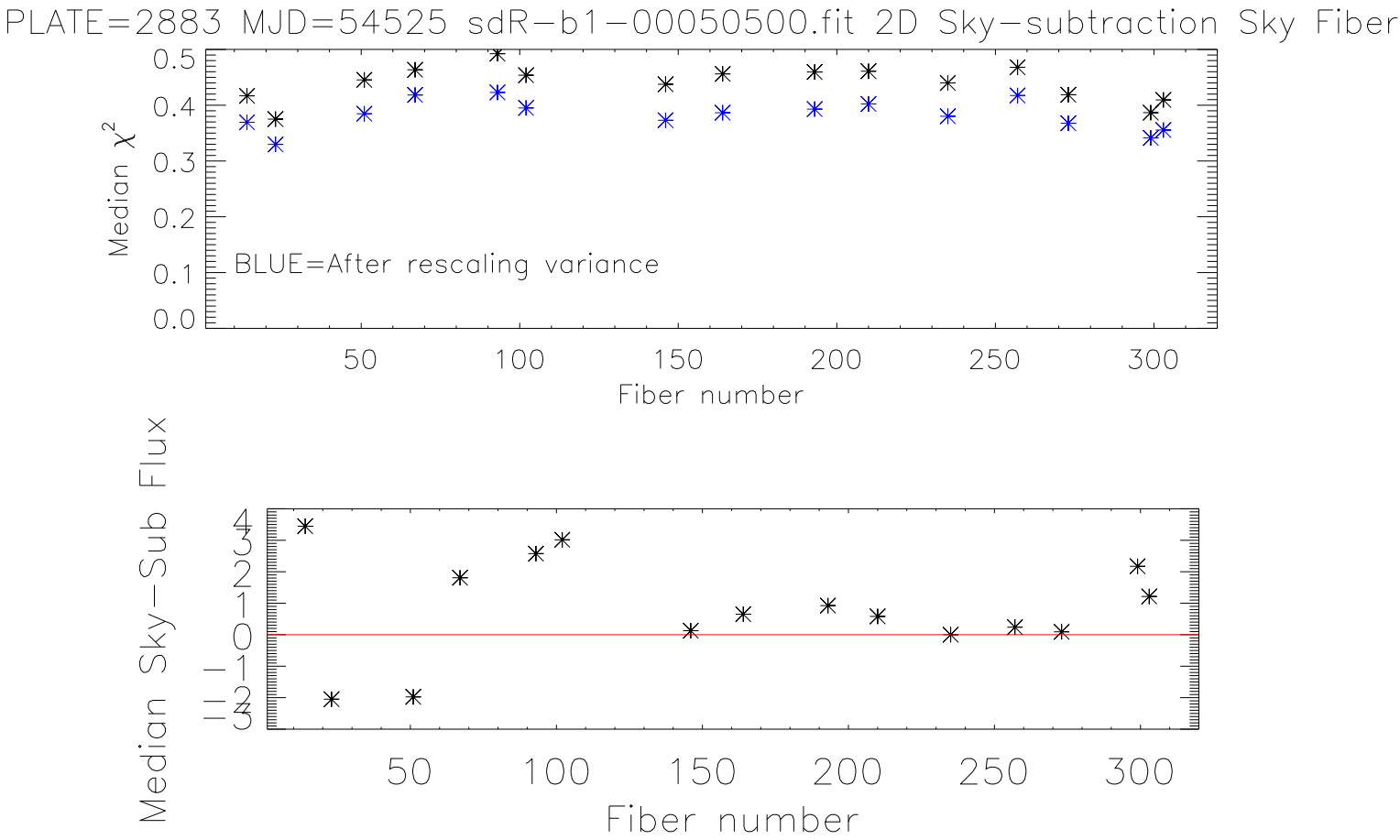

PLATE=2883 MJD=54525 Smooth superflat for sdR-b1-00050500.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

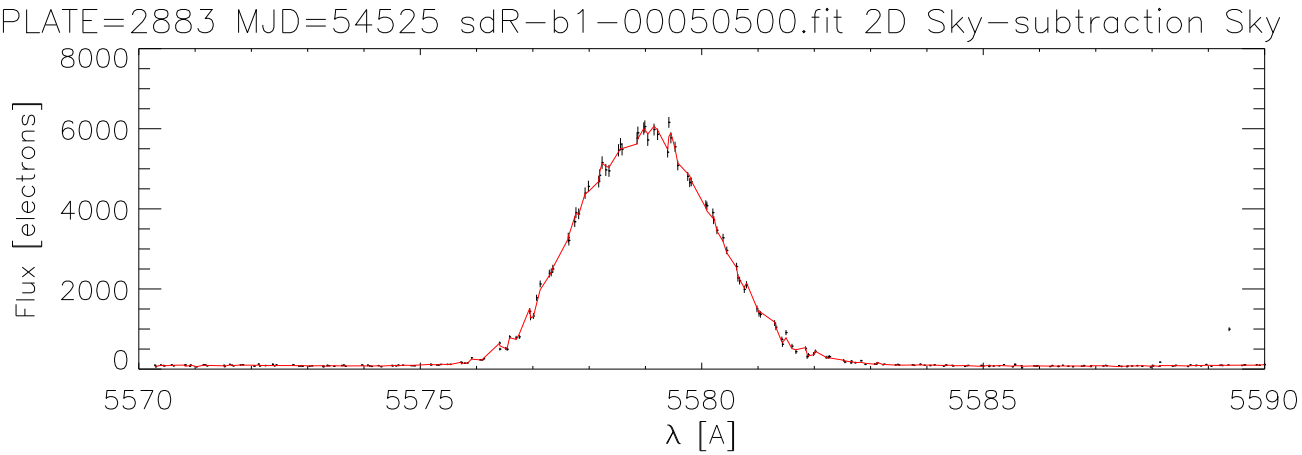

PLATE=2883 MJD=54525 sdR-b1-00050500.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

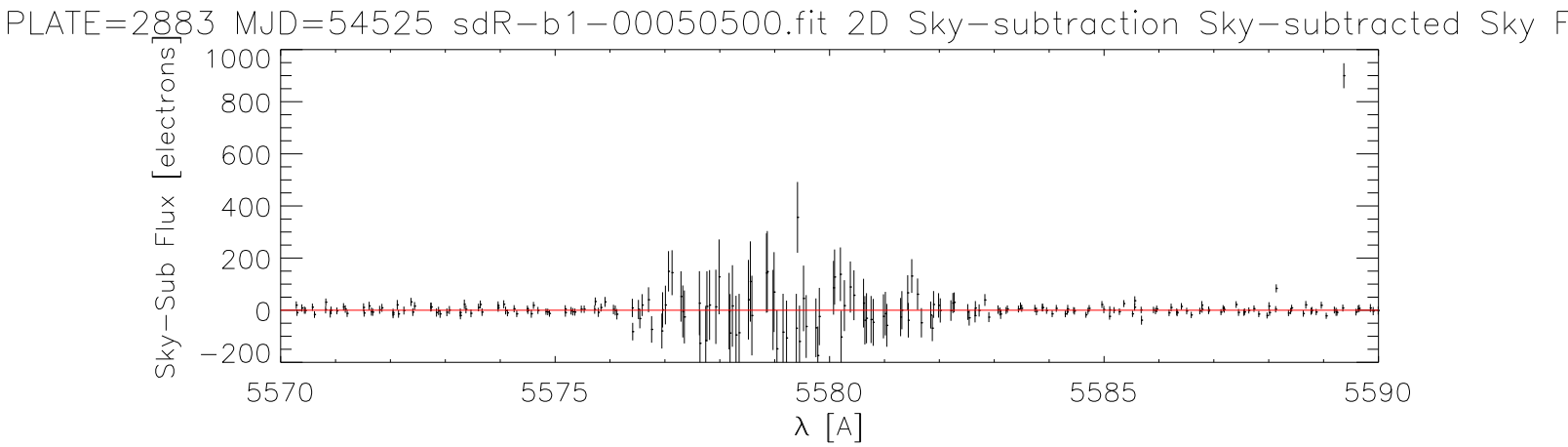

PLATE=2883 MJD=54525 sdR-b1-00050500.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

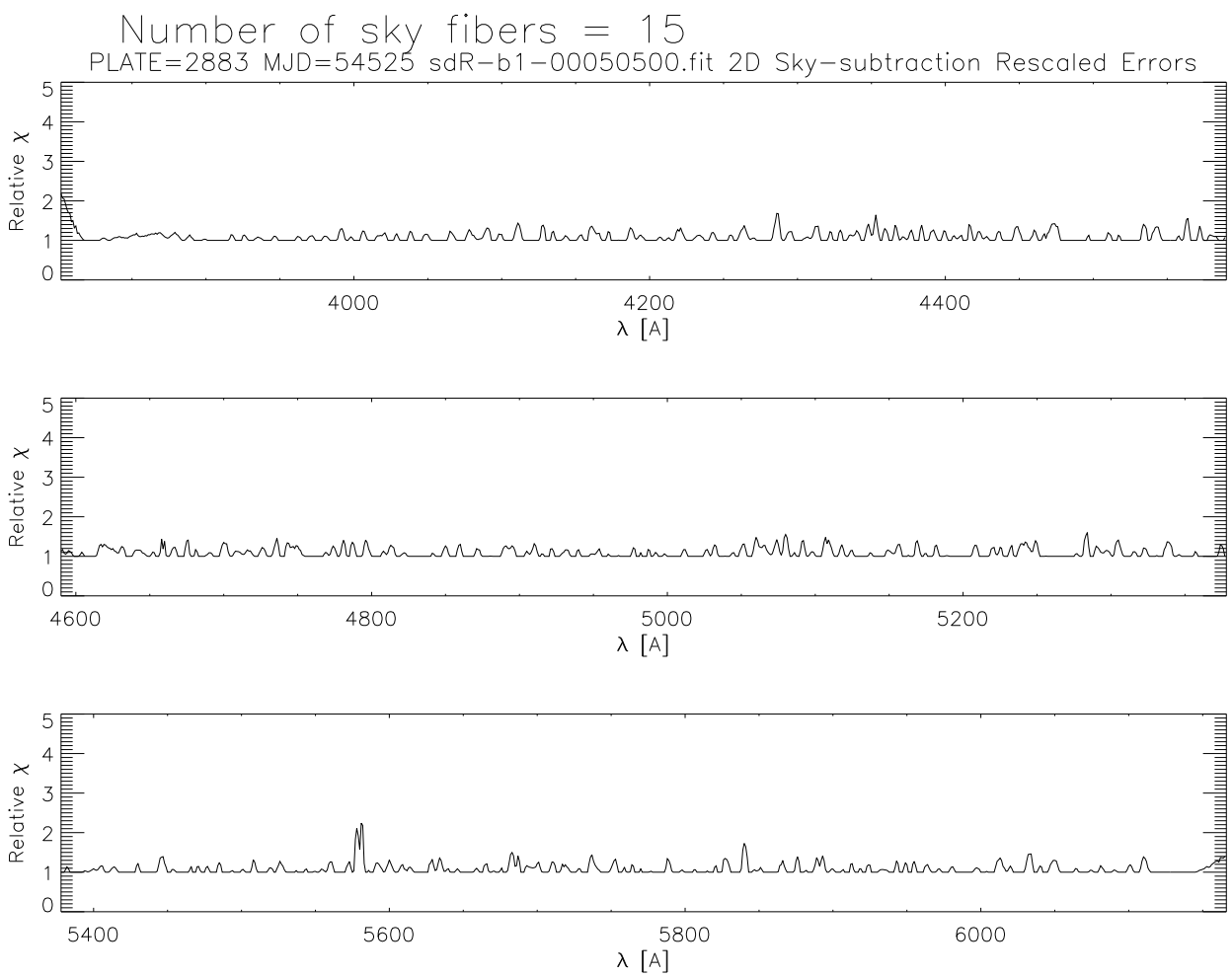

PLATE=2883 MJD=54525 sdR-b1-00050500.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

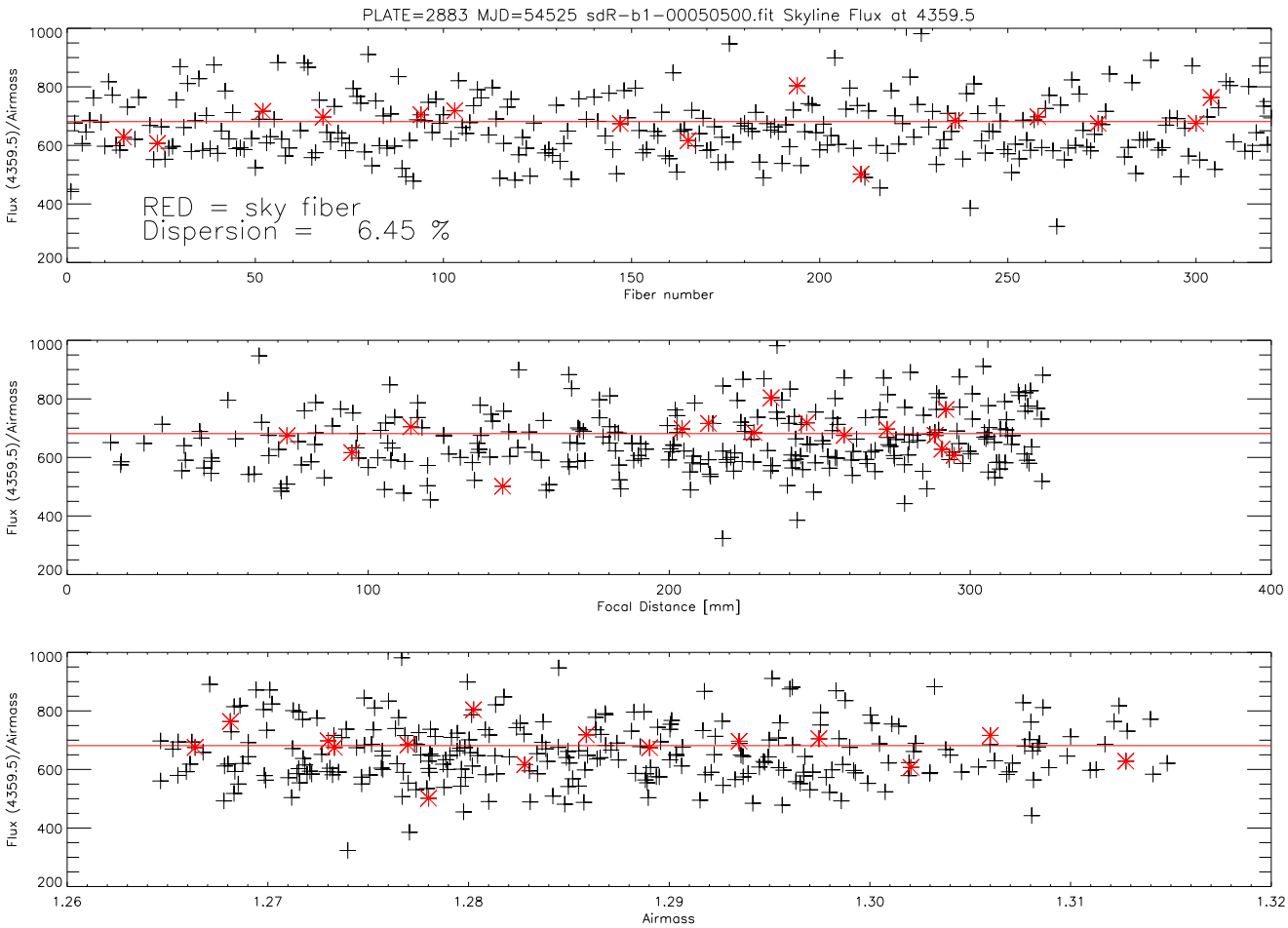

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-b1-00050500.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

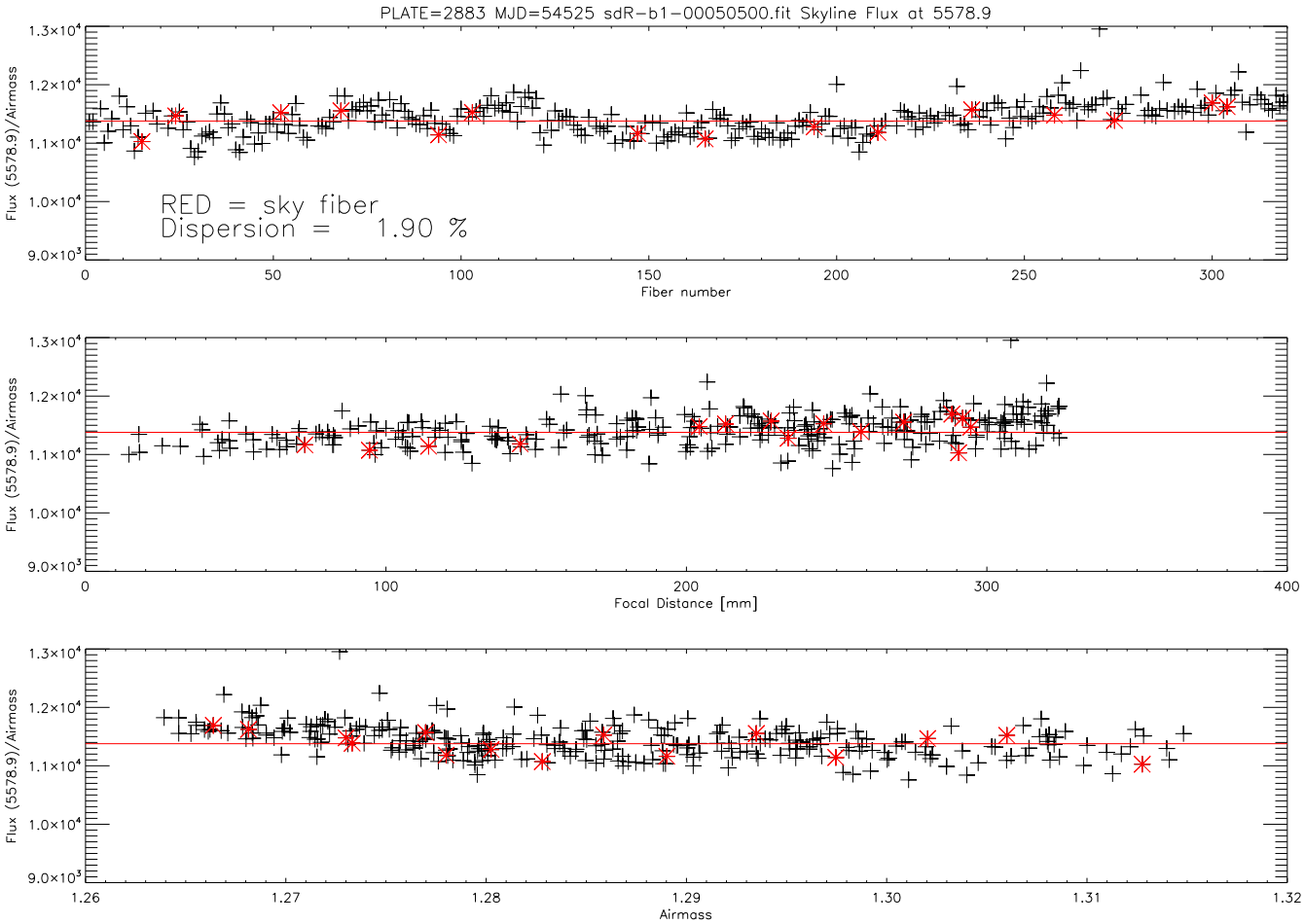

PLATE=2883 MJD=54525 sdR-b1-00050500.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

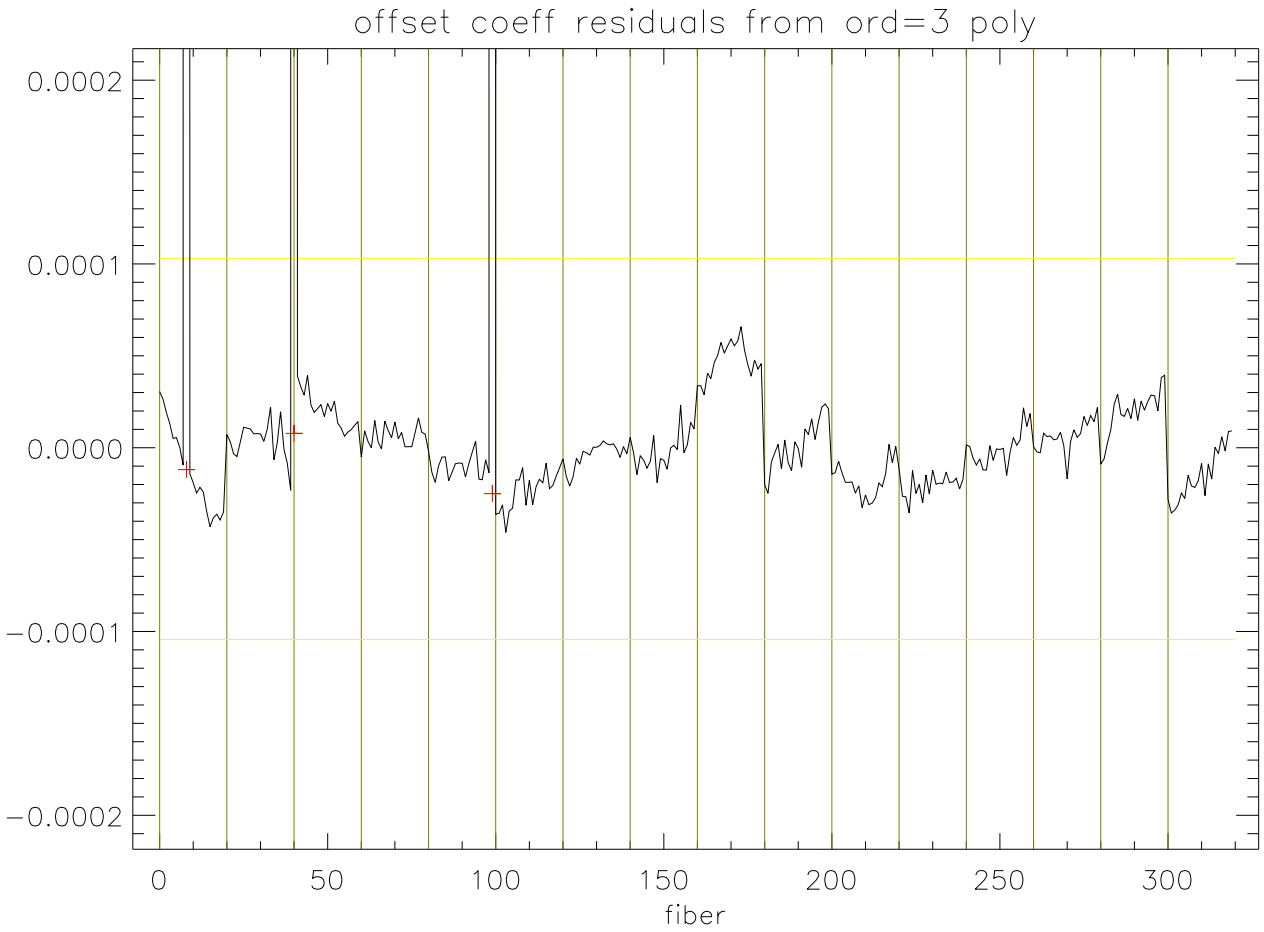

PLATE=2883 MJD=54525 sdR-b1-00050500.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

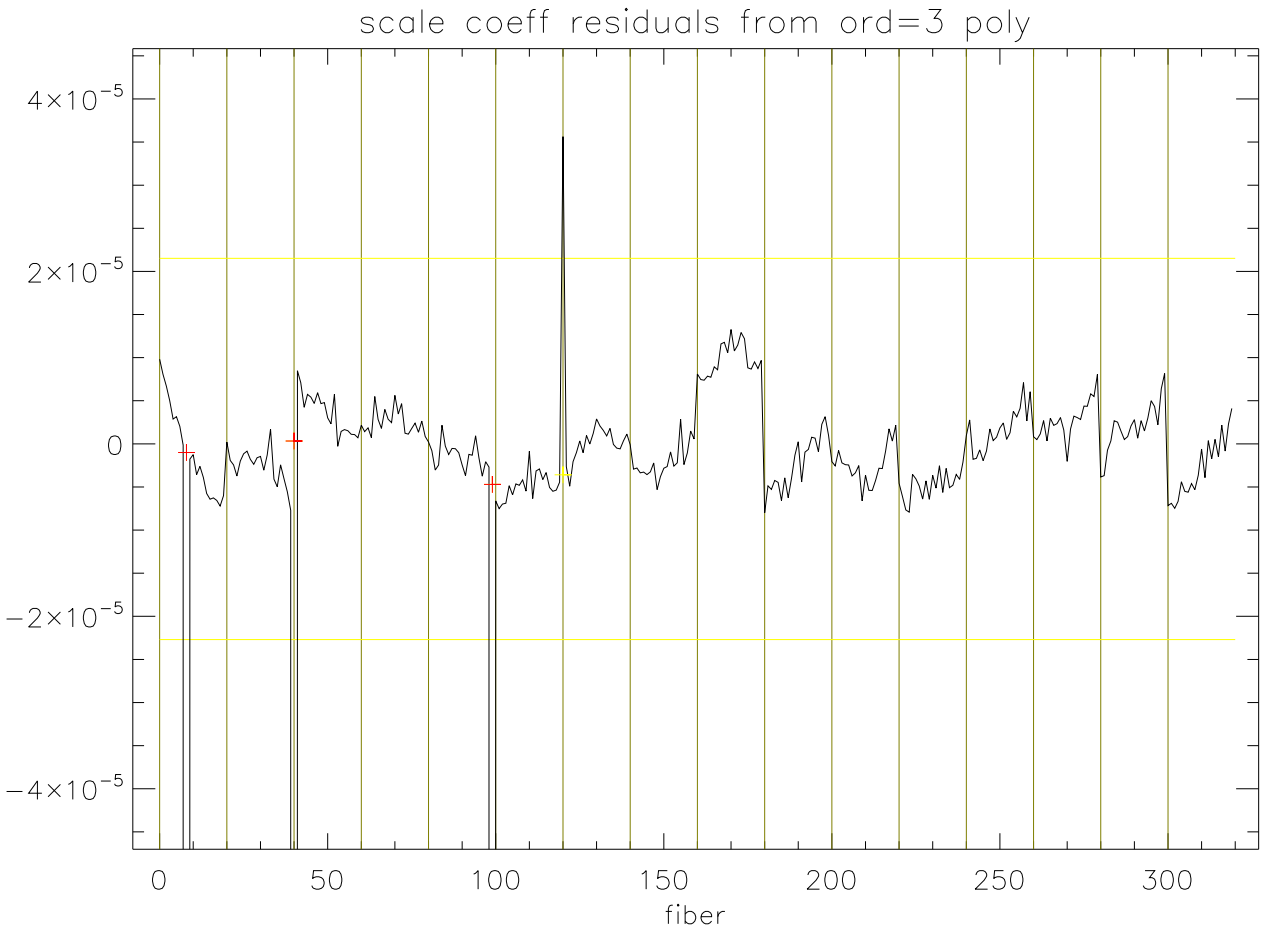

PLATE=2883 MJD=54525 sdR-b1-00050500.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

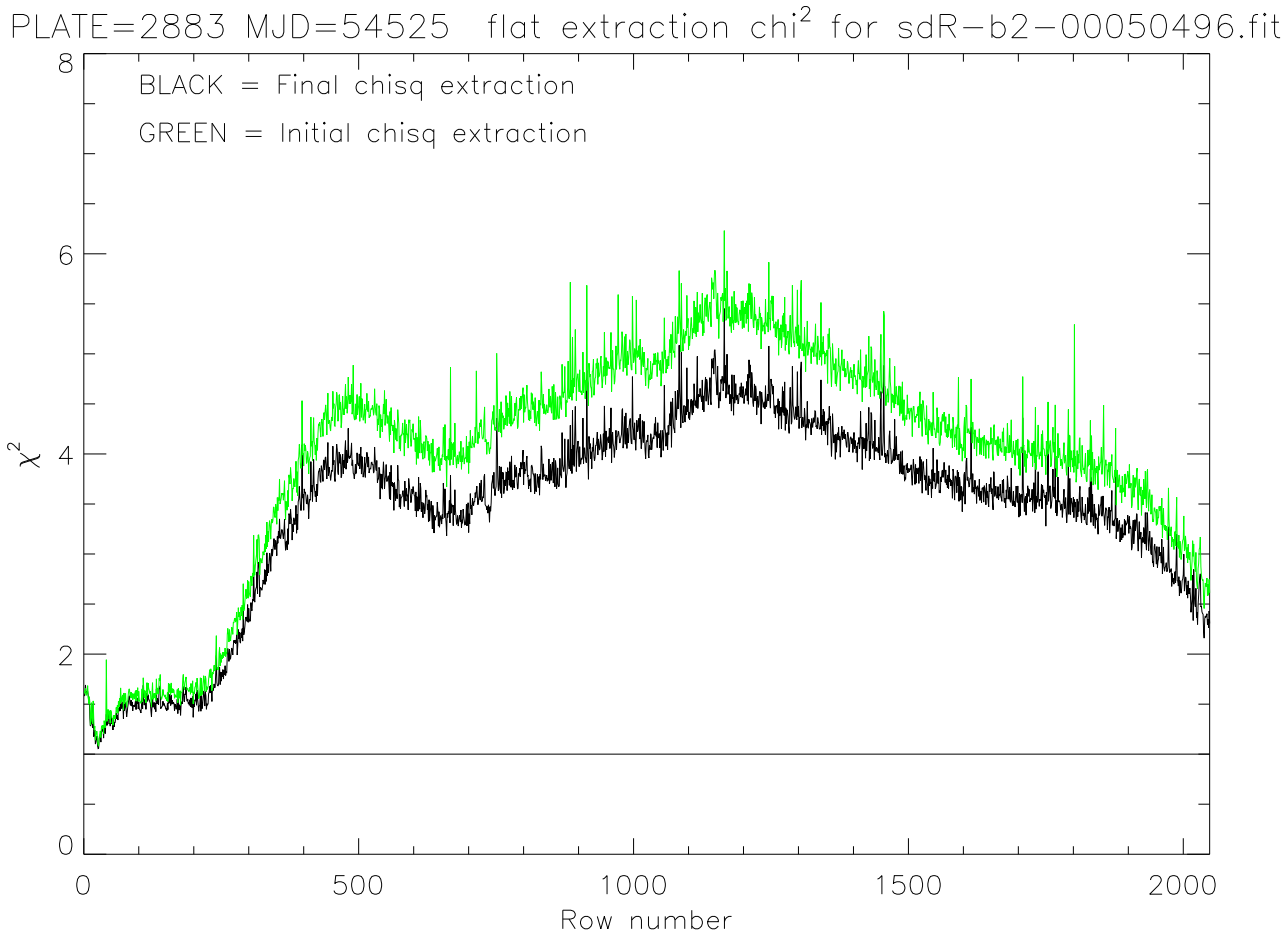

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-b1-00050500.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

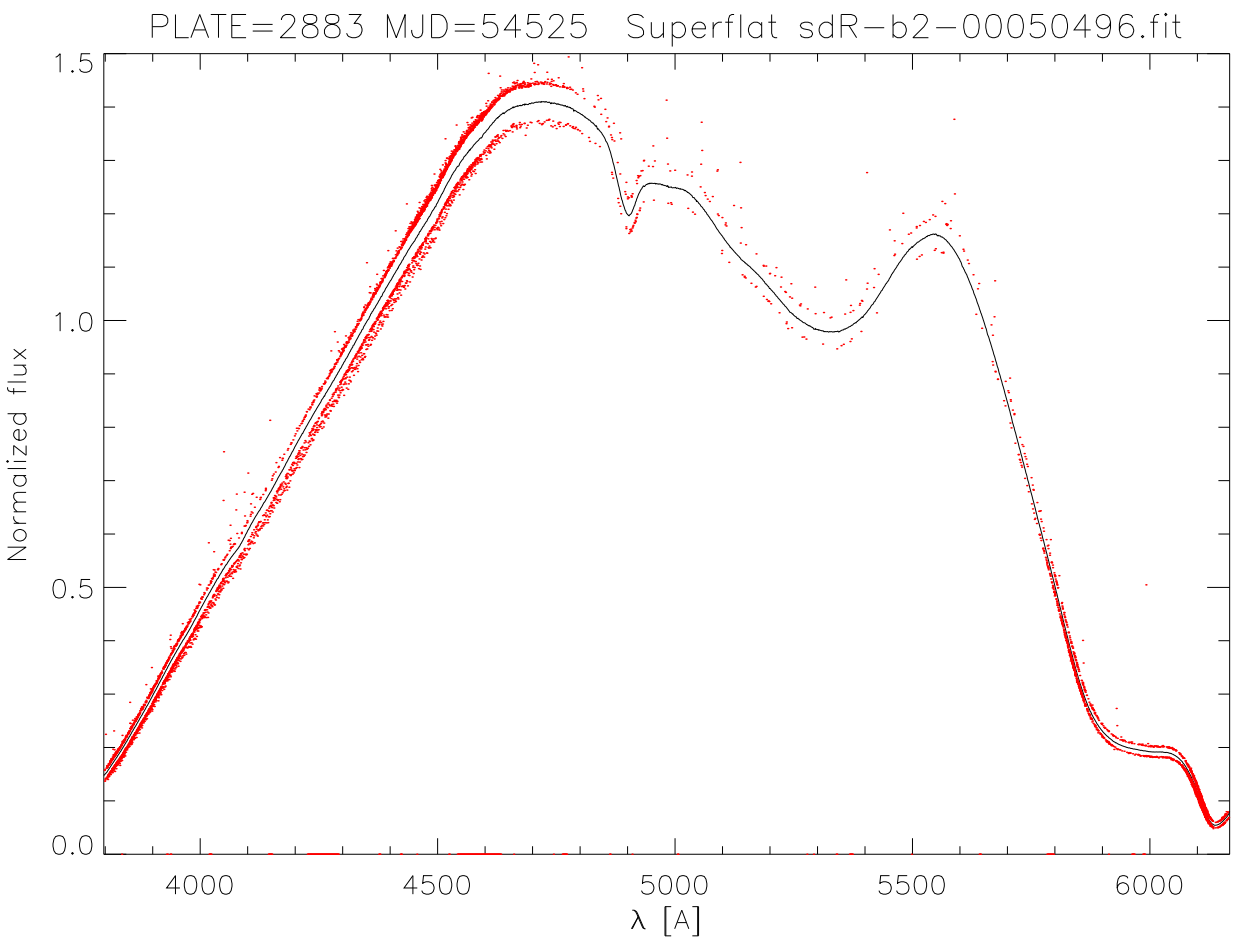

PLATE=2883 MJD=54525 sdR-b1-00050500.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.45 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

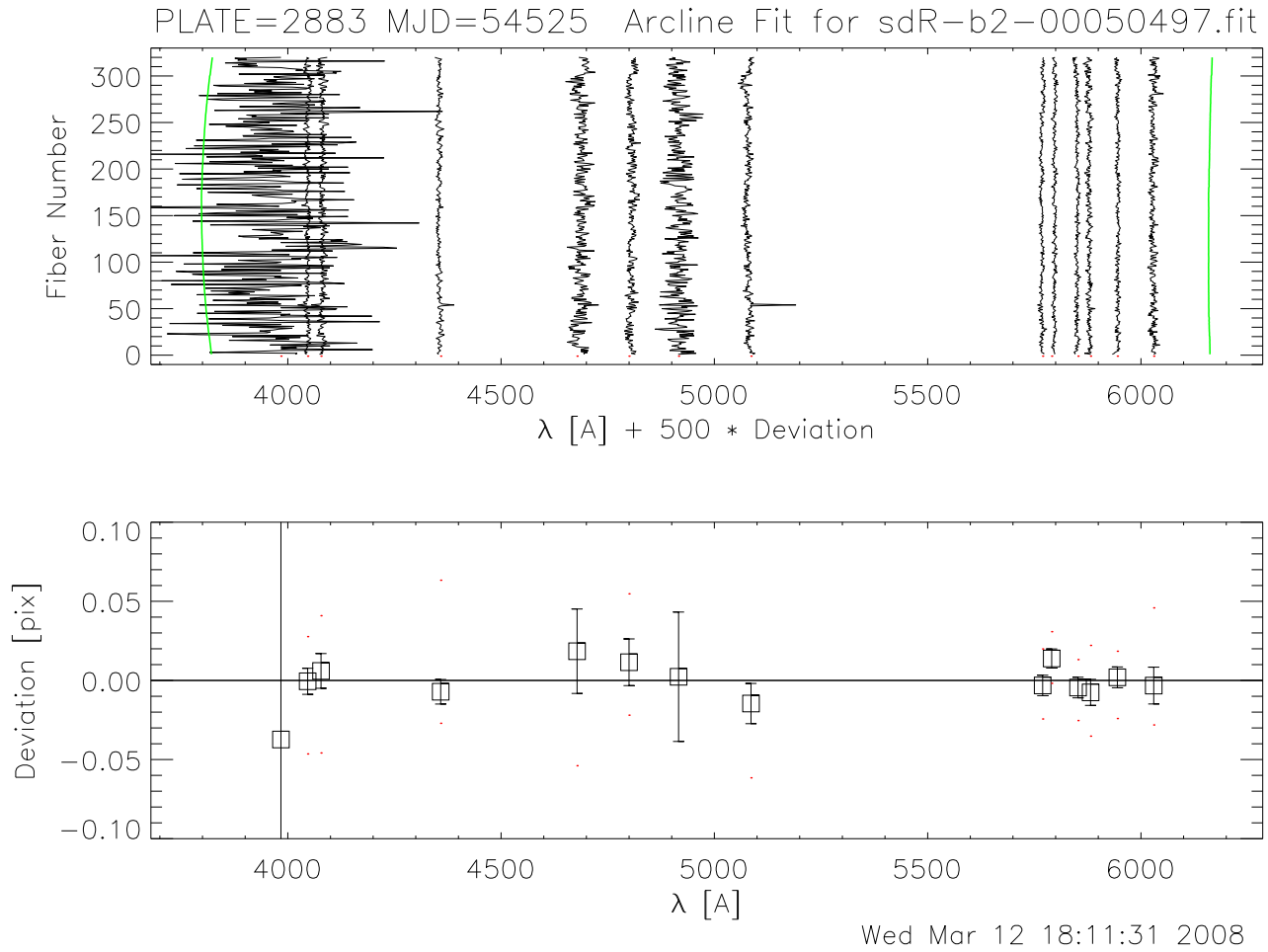

PLATE=2883 MJD=54525 sdR-b1-00050500.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.90 %
Fiber number
Focal Distance [mm]
Airmass

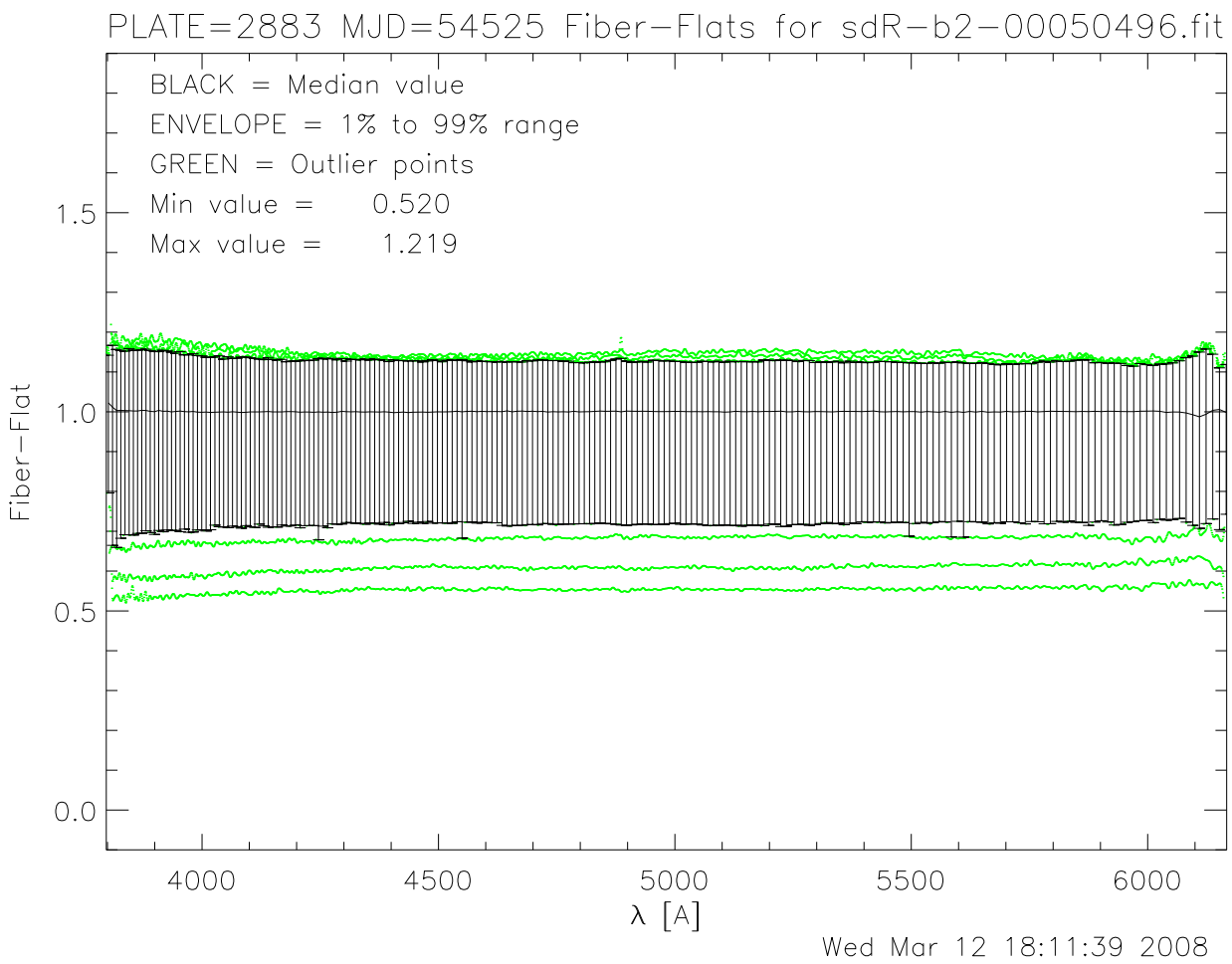

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

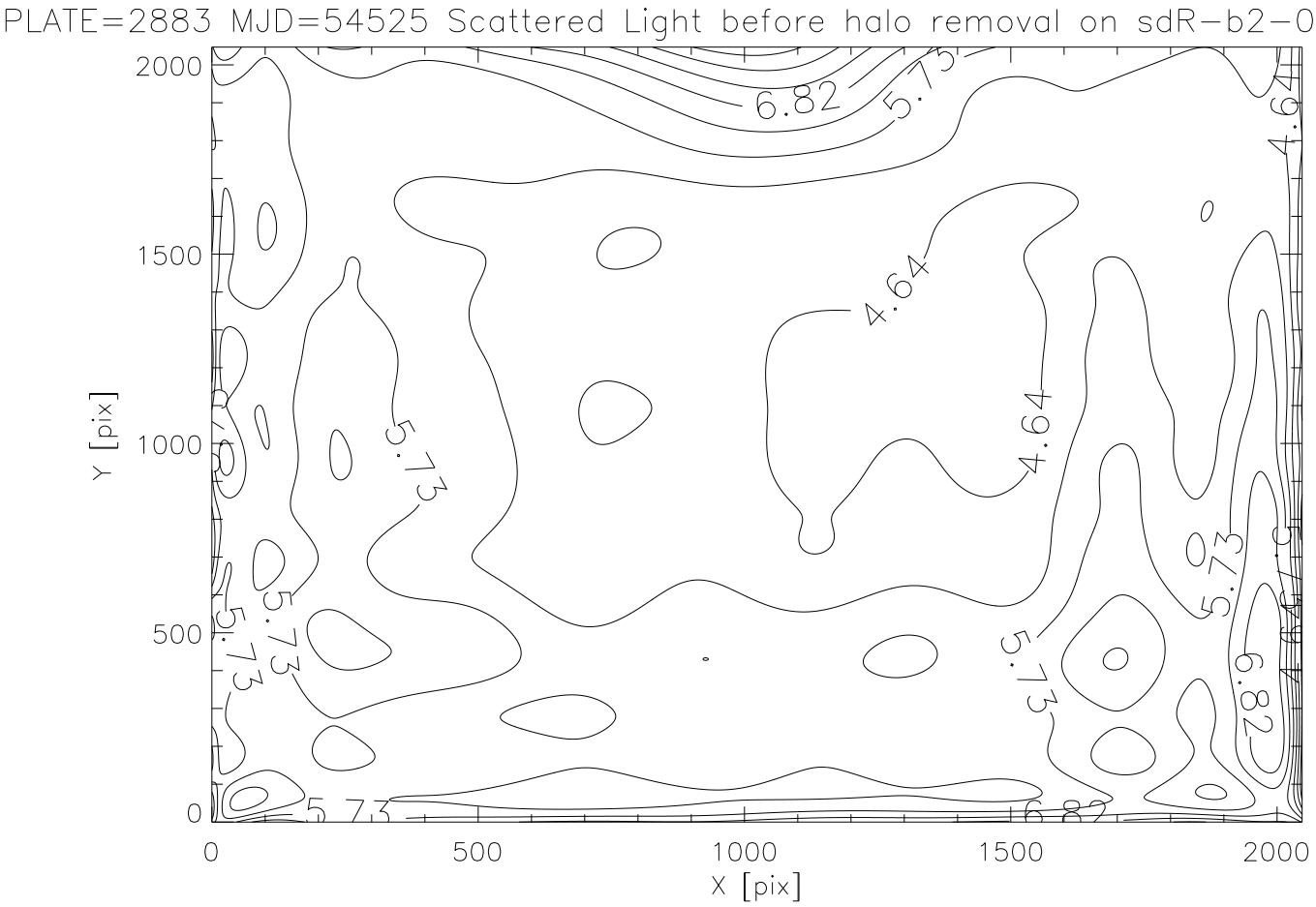

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

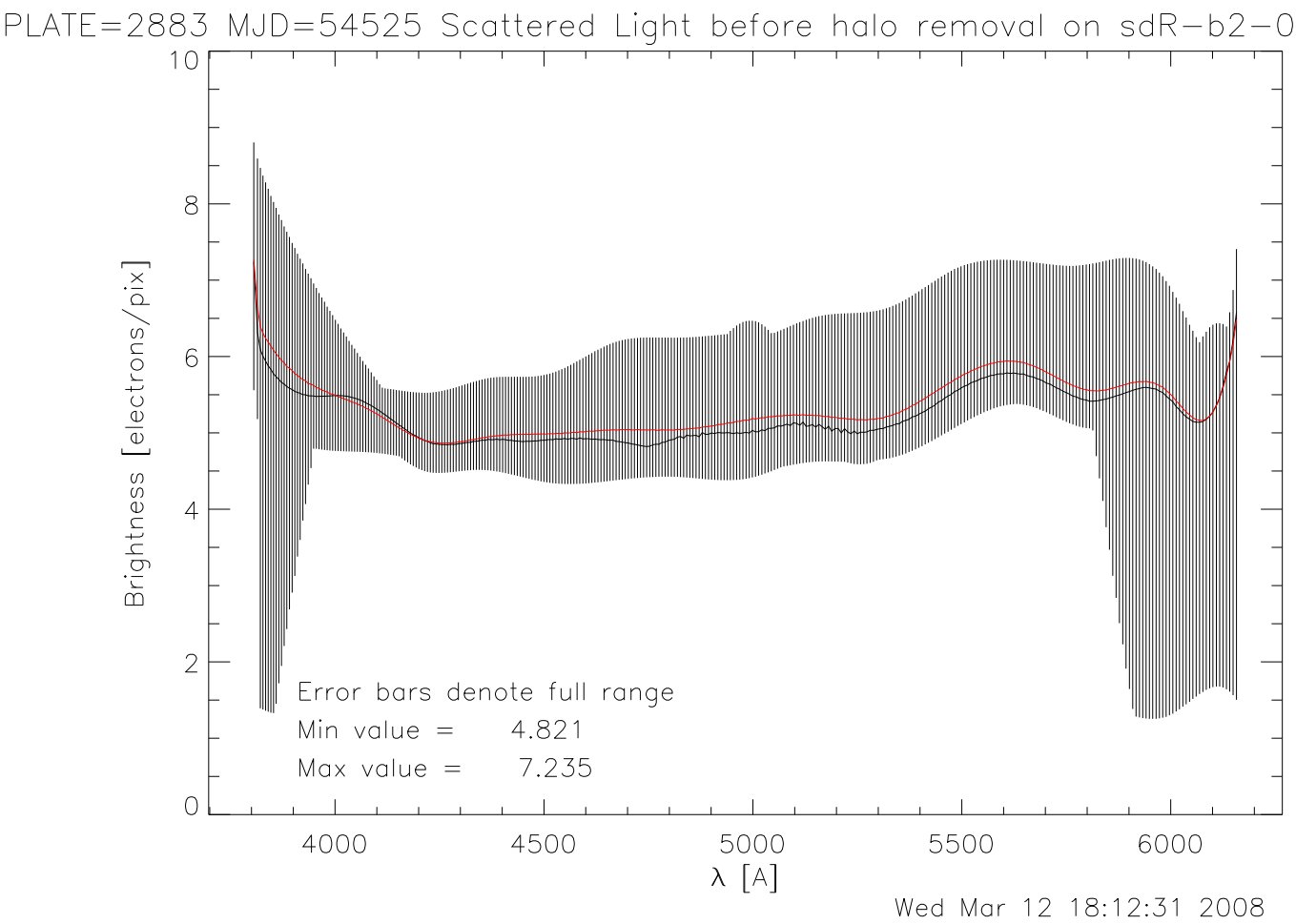

PLATE=2883 MJD=54525 flat extraction chi^2 for sdR−b2−00050496.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

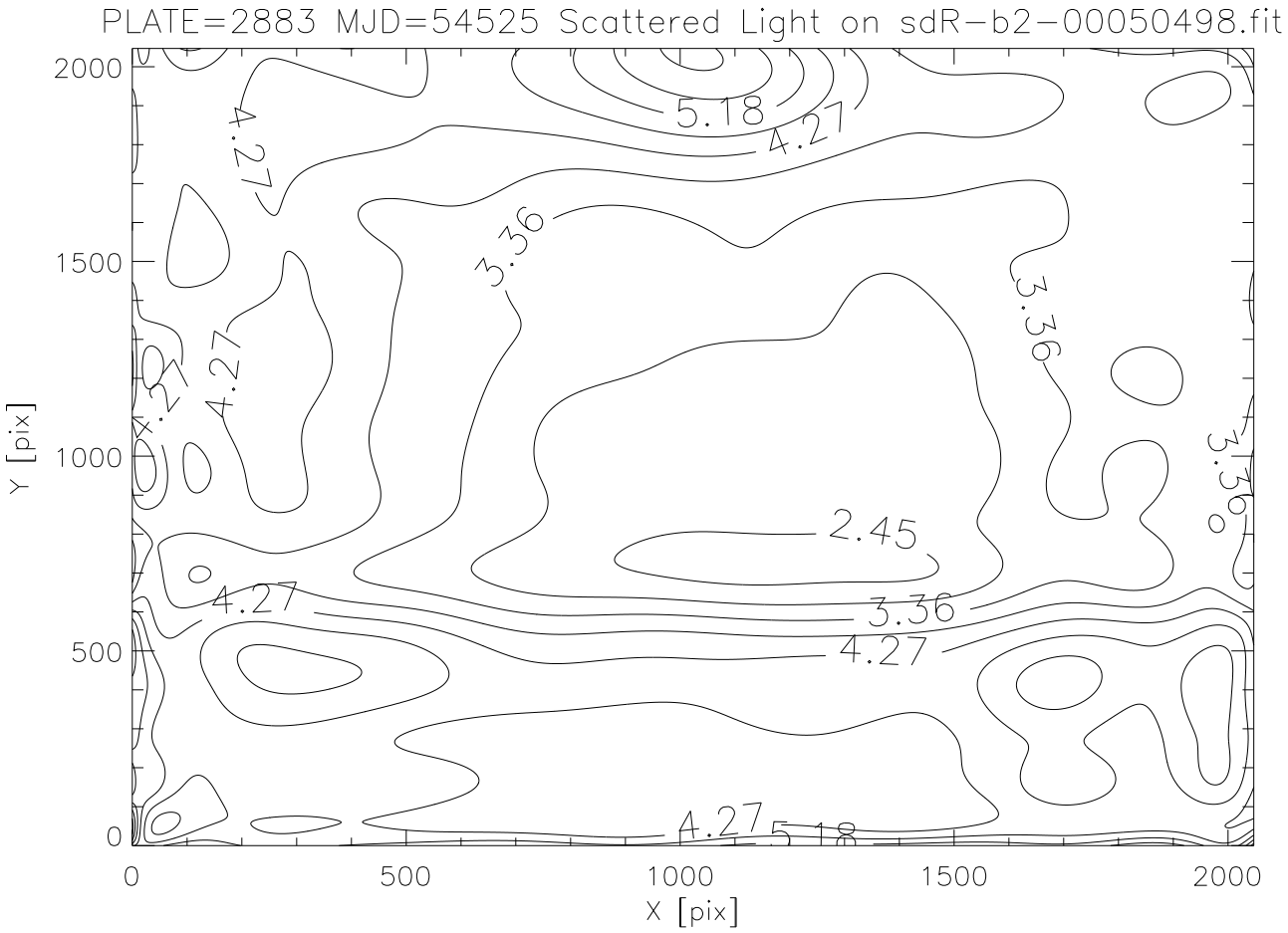

PLATE=2883 MJD=54525 Superflat sdR-b2-00050496.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

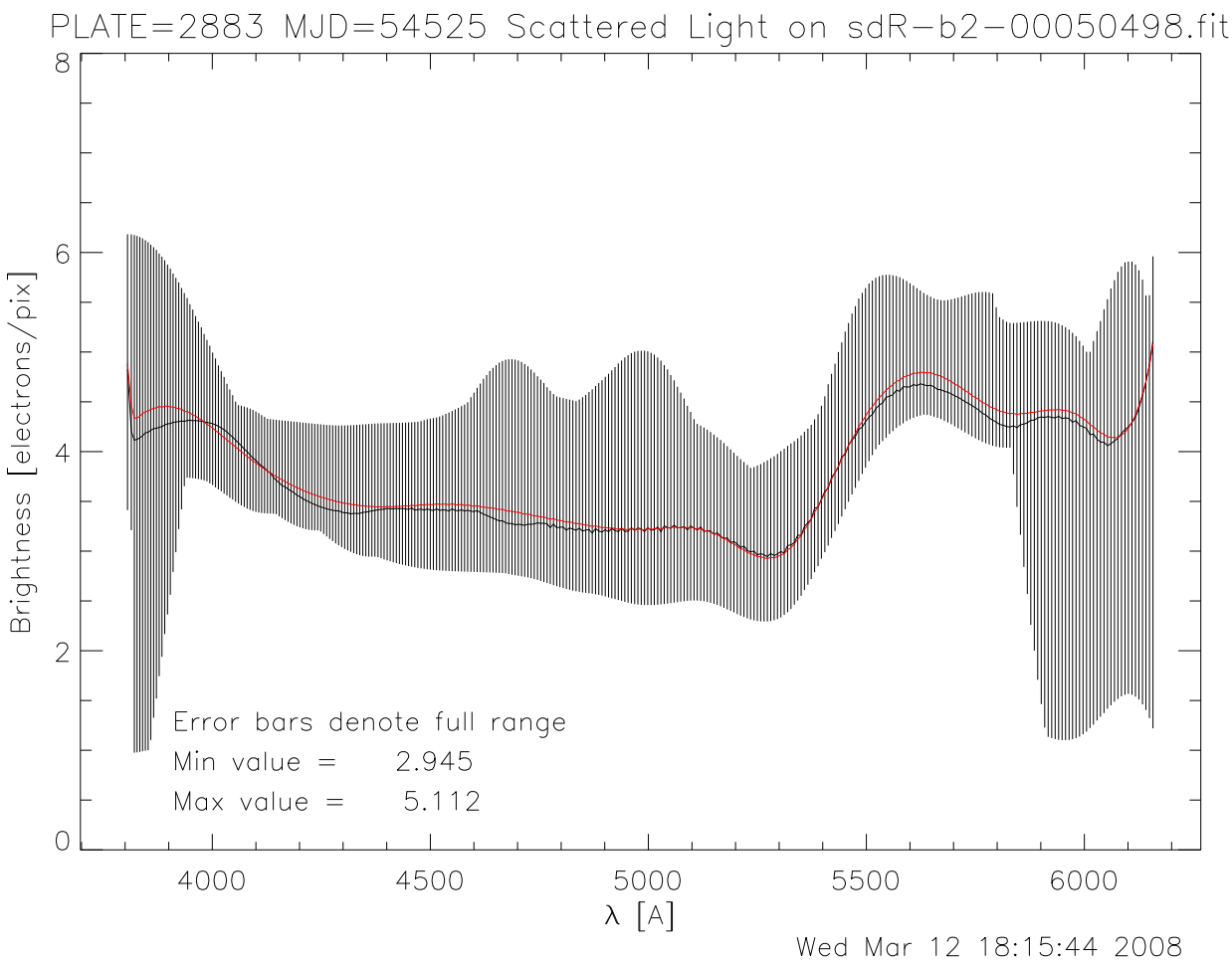

PLATE=2883 MJD=54525 Arcline Fit for sdR-b2-00050497.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:11:31 2008

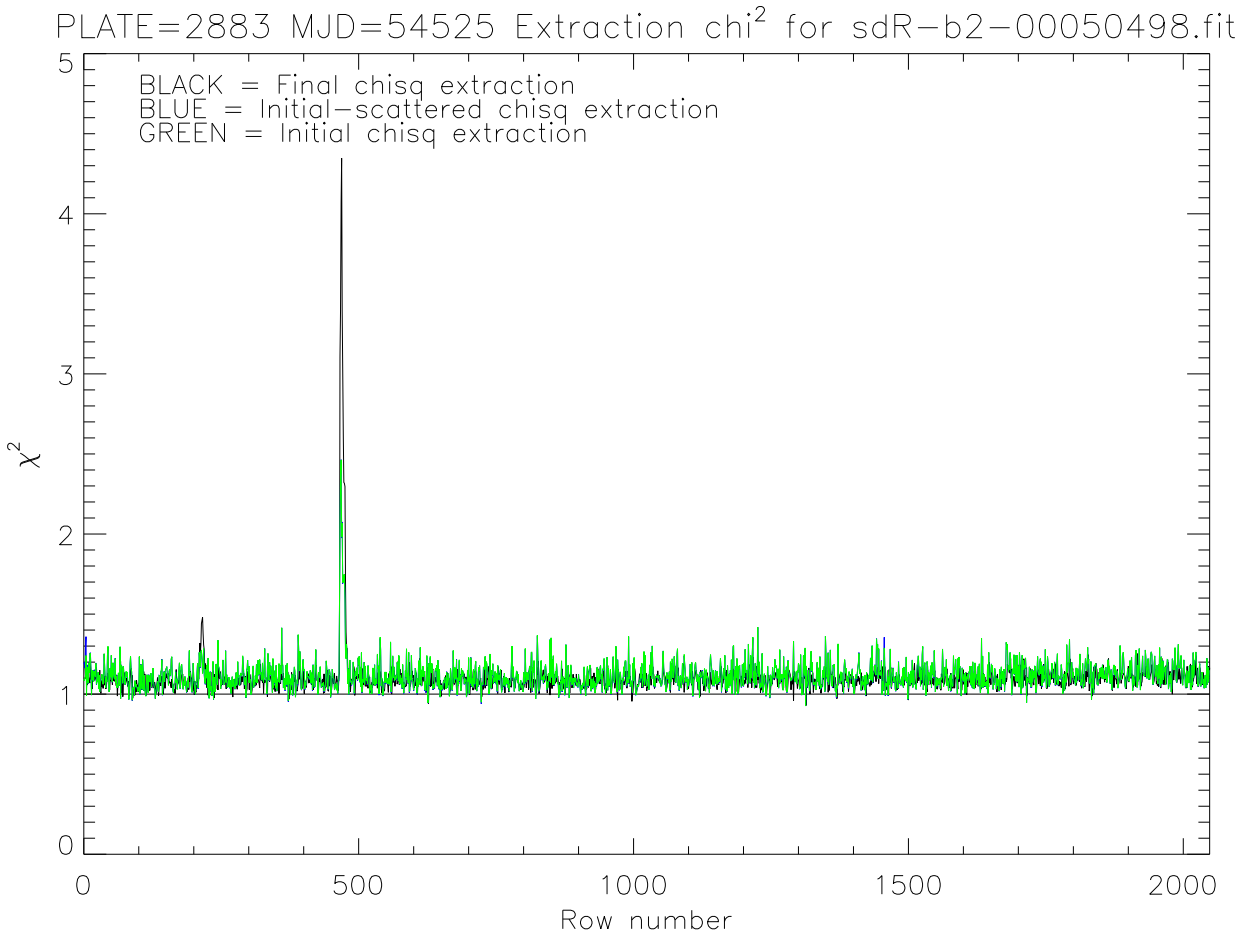

PLATE=2883 MJD=54525 Fiber-Flats for sdR-b2-00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.520
Max value = 1.219
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:11:39 2008

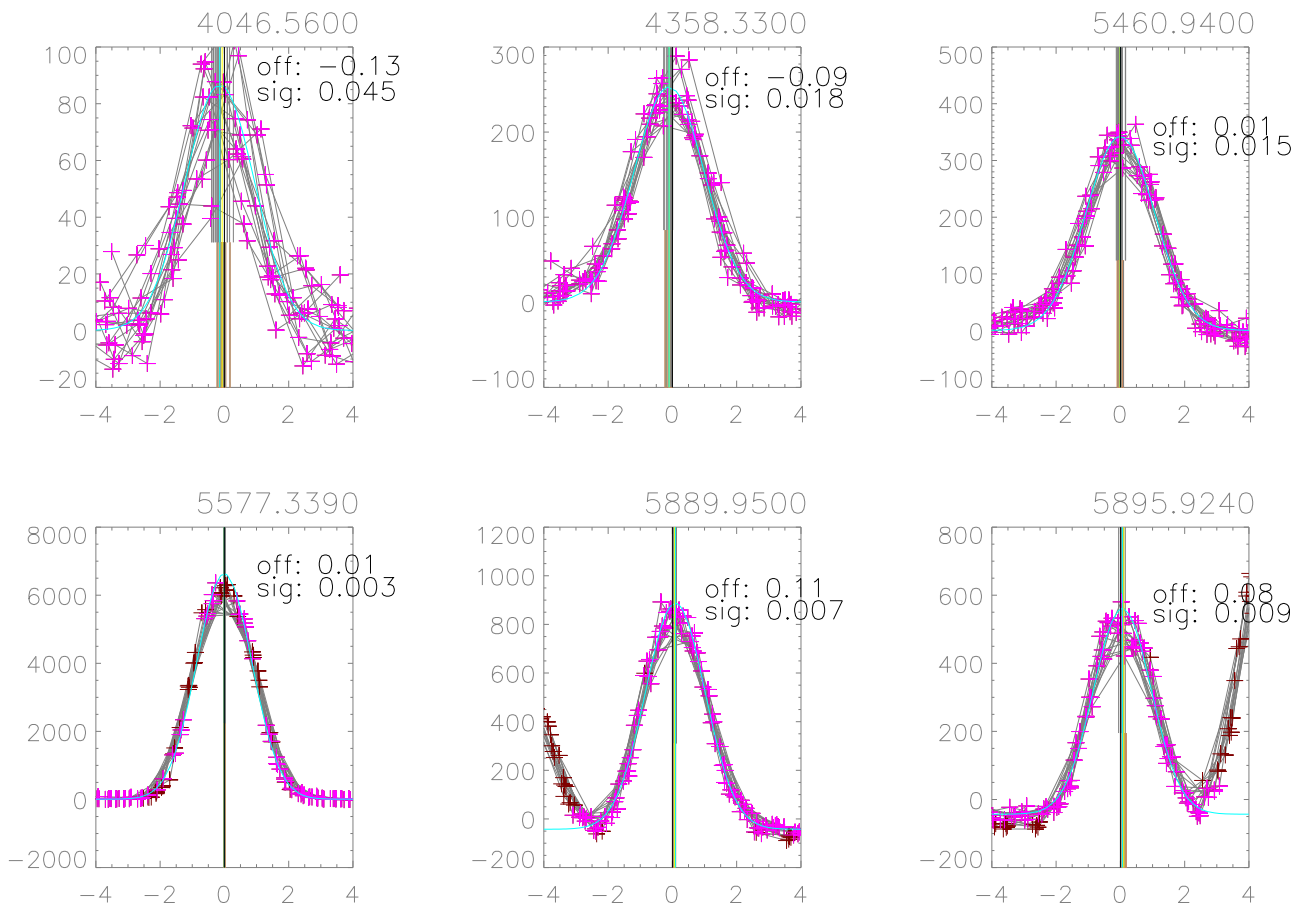

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b2-00050498.f
Y [pix]
X [pix]
0
500
1000
1500
2000
6.82
5.73
4.64
0

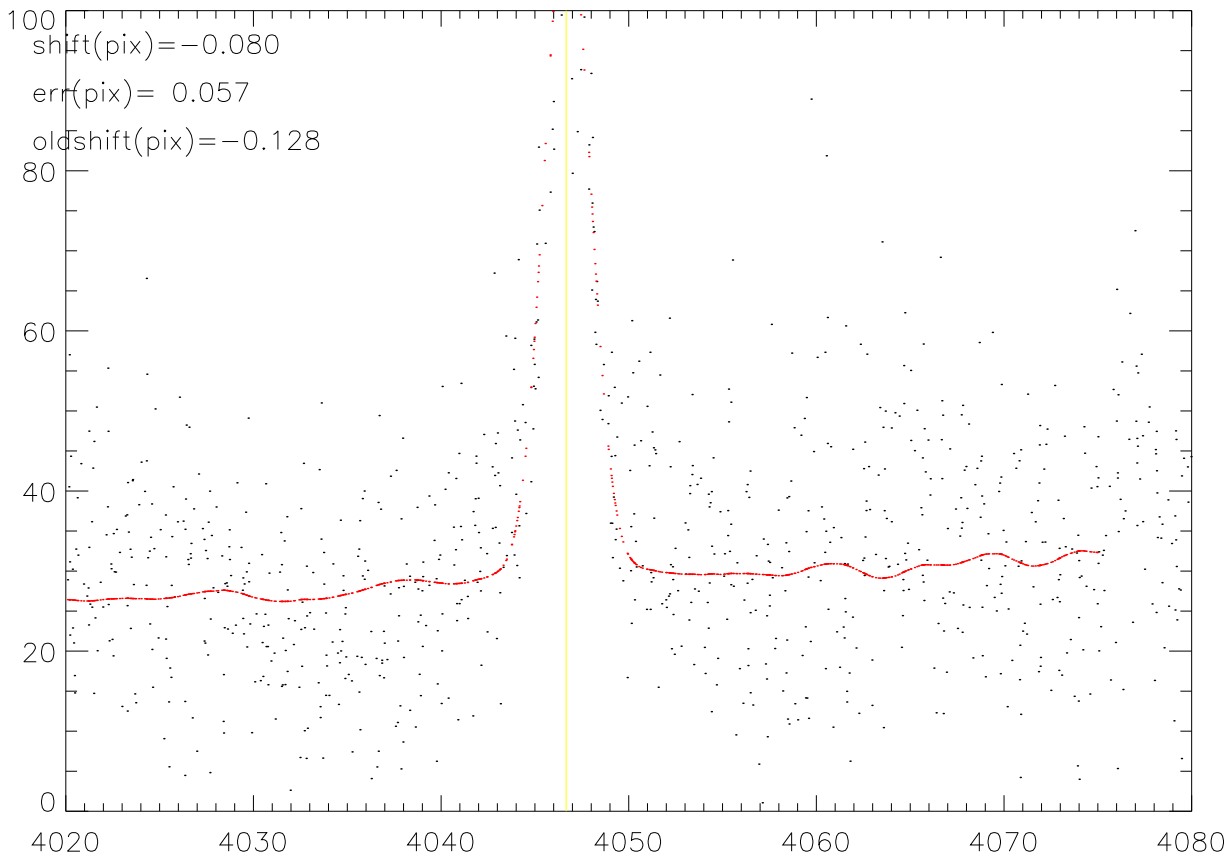

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b2-00050498.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.821
Max value = 7.235
Wed Mar 12 18:12:31 2008

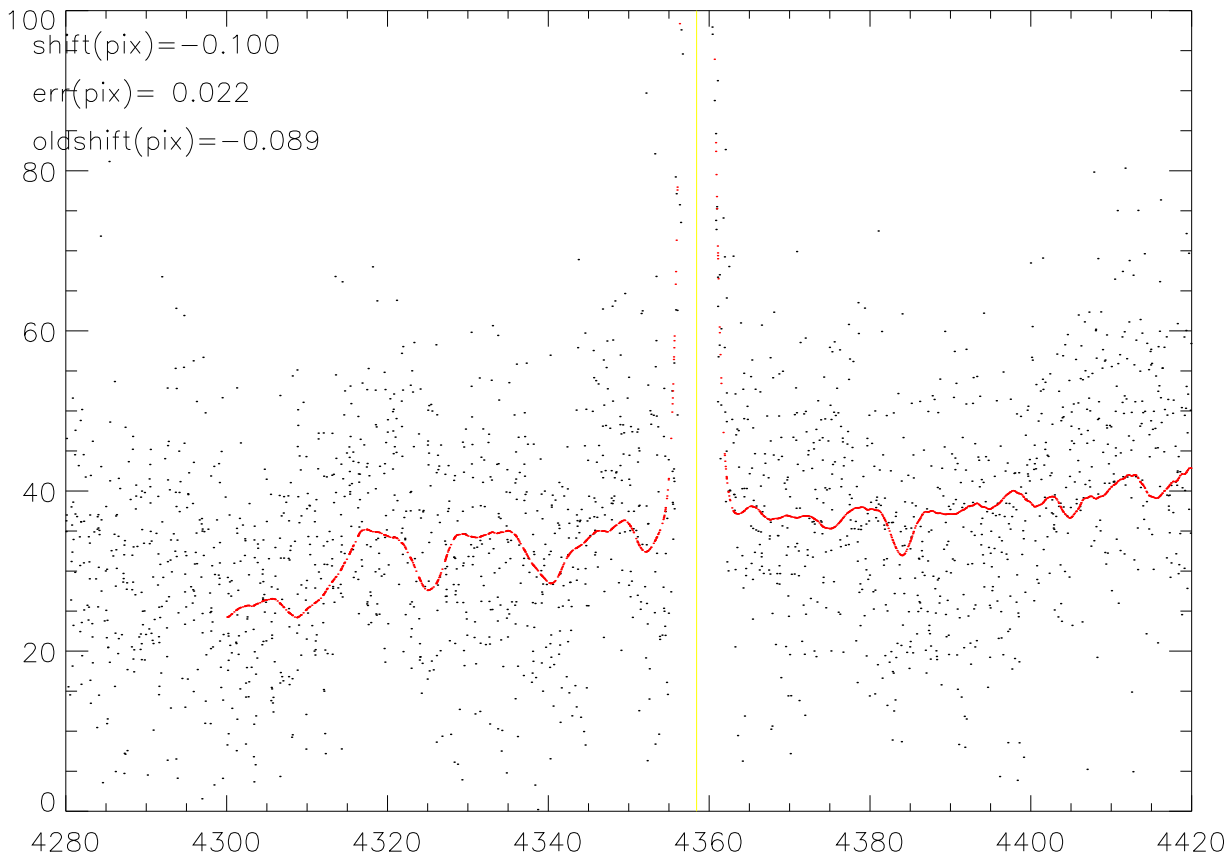

PLATE=2883 MJD=54525 Scattered Light on sdR-b2-00050498.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.18
4.27
3.36
2.45

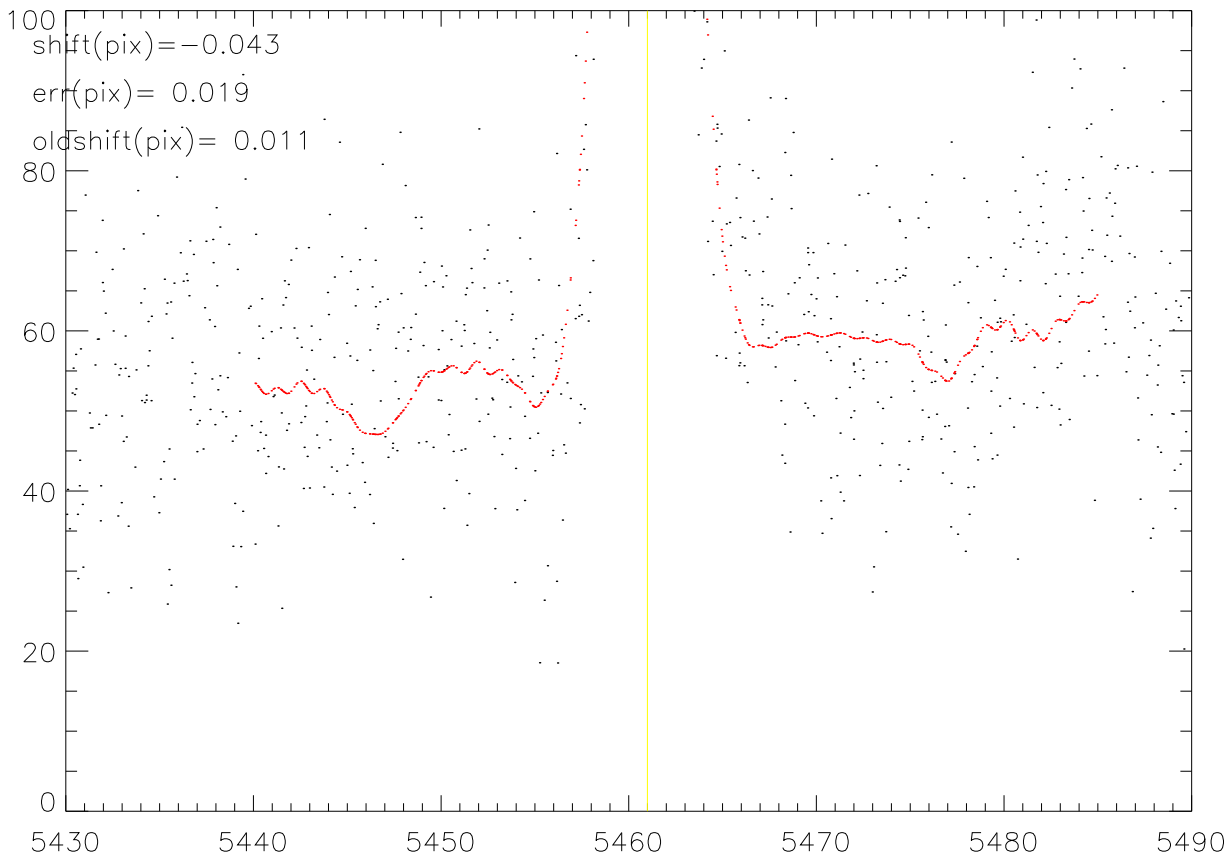

PLATE=2883 MJD=54525 Scattered Light on sdR-b2-00050498.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.945
Max value = 5.112
Wed Mar 12 18:15:44 2008

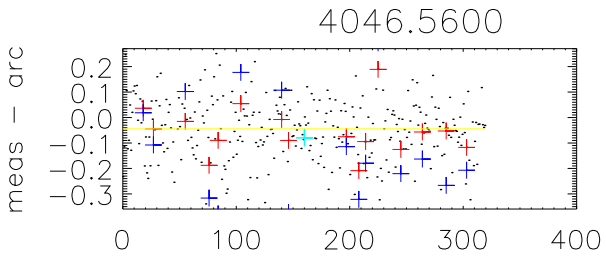

PLATE=2883 MJD=54525 Extraction chi^2 for sdR-b2-00050498.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

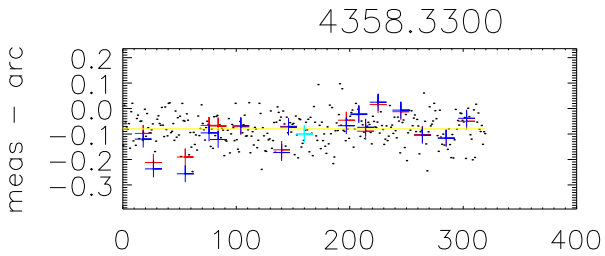

4046.5600
off: −0.13
sig: 0.045
4358.3300
off: −0.09
sig: 0.018
5460.9400
off: 0.01
sig: 0.015
5577.3390
off: 0.01
sig: 0.003
5889.9500
off: 0.11
sig: 0.007
5895.9240
off: 0.08
sig: 0.009

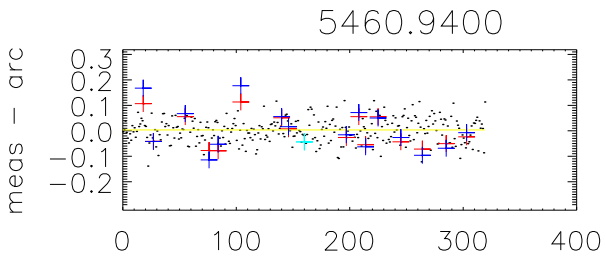

shift(pix)=−0.080
err(pix)= 0.057
oldshift(pix)=−0.128
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

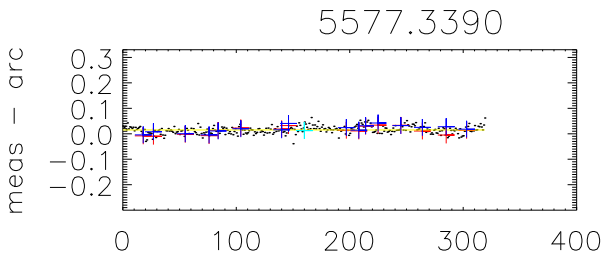

shift(pix)=−0.100
err(pix)= 0.022
oldshift(pix)=−0.089
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

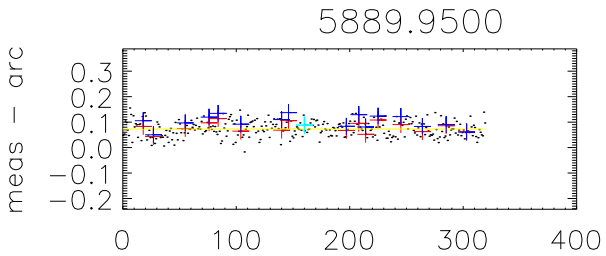

shift(pix)=−0.043
err(pix)= 0.019
oldshift(pix)= 0.011
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

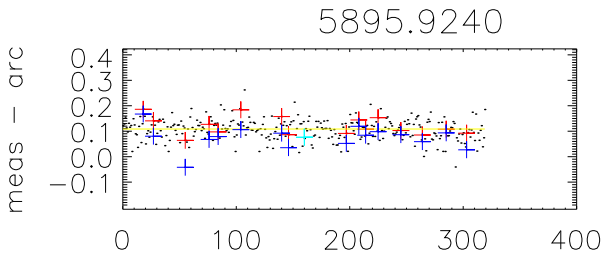

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

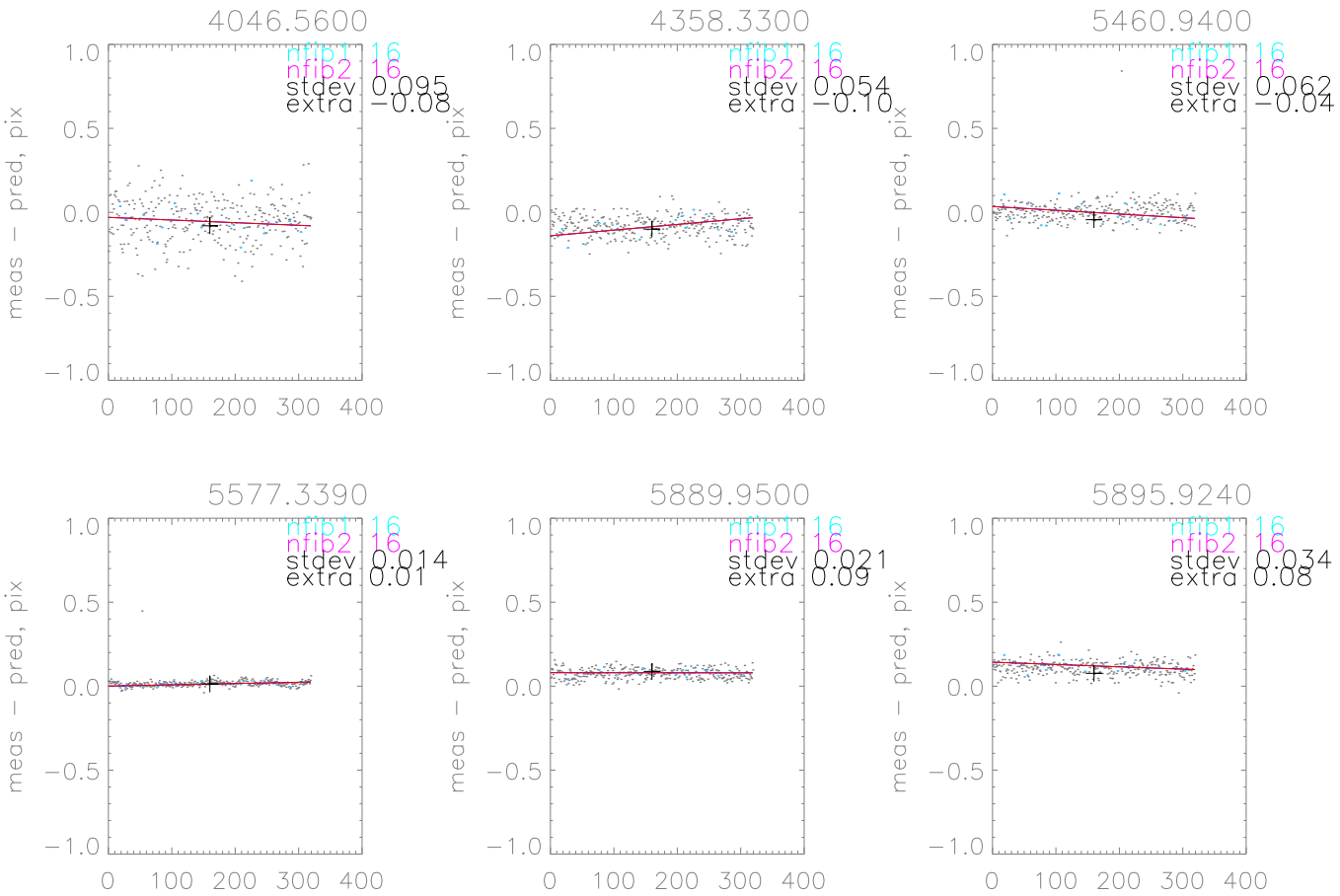

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

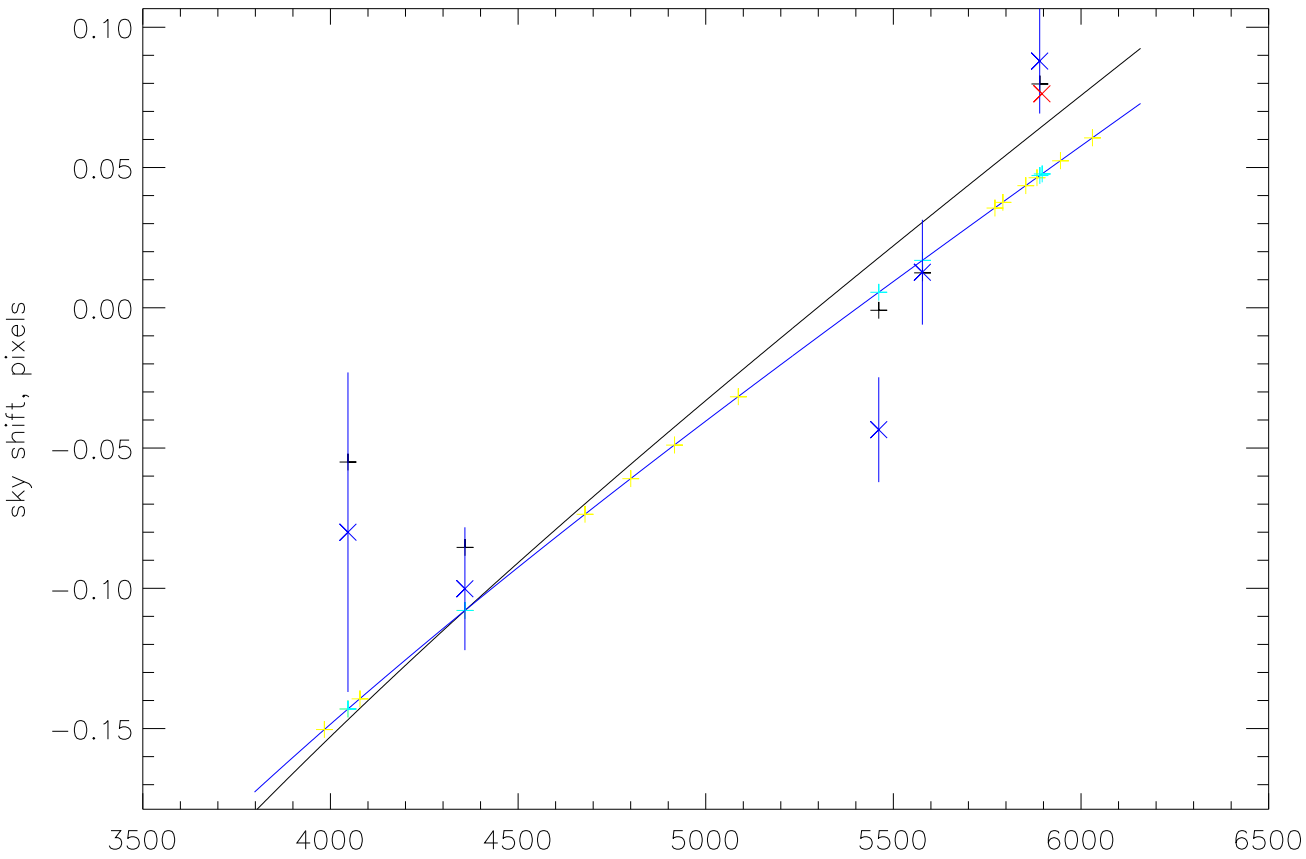

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

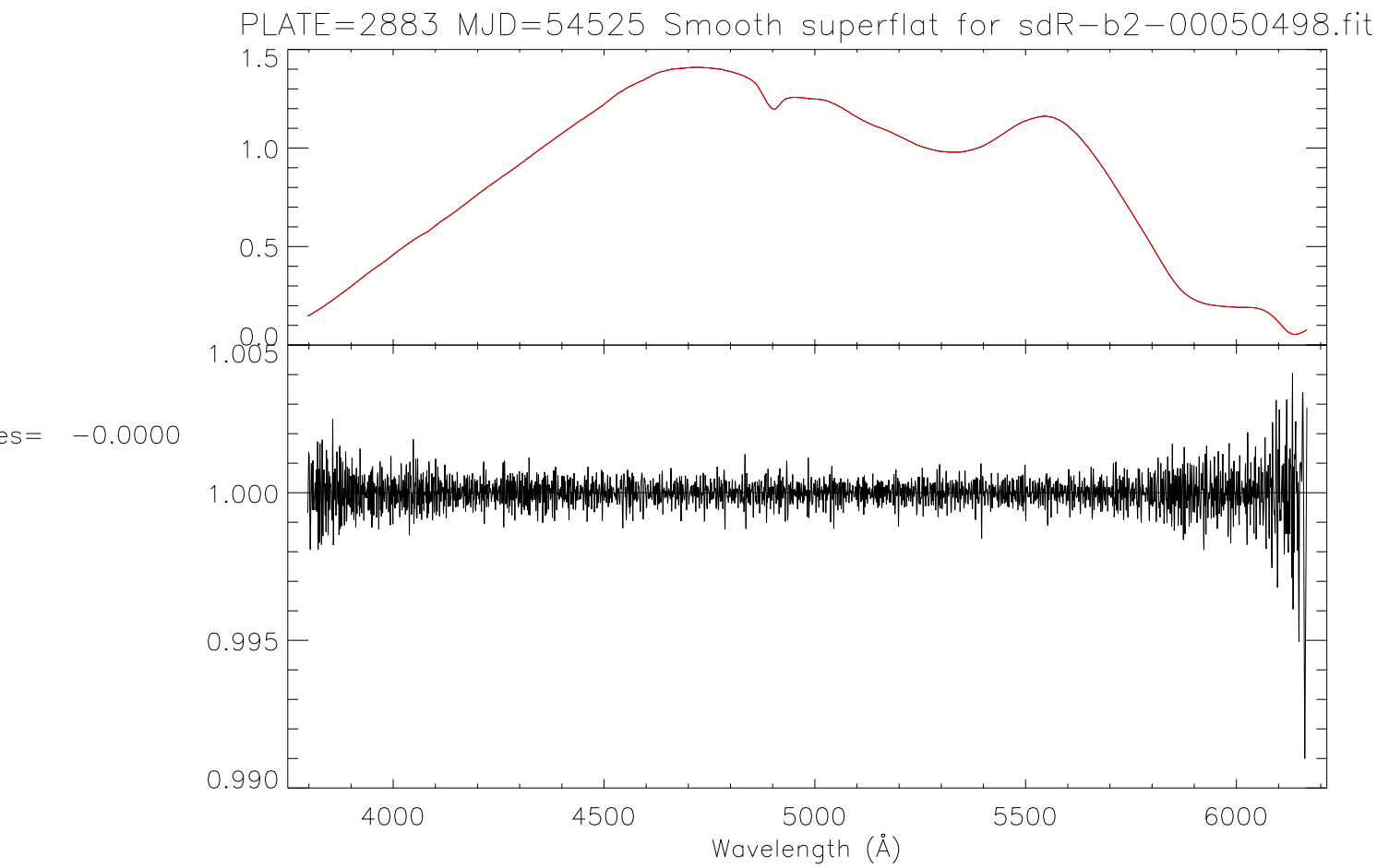

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

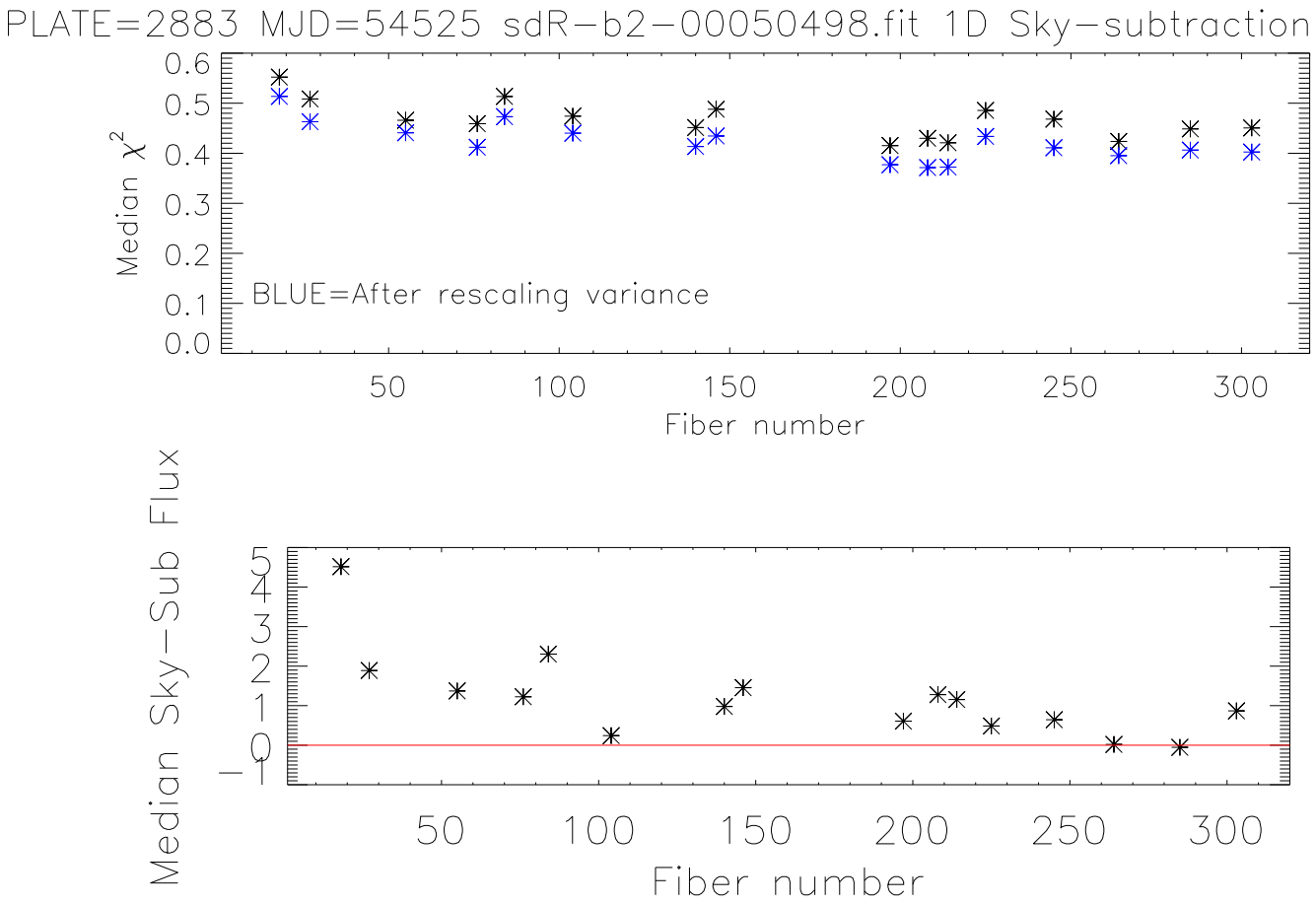

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

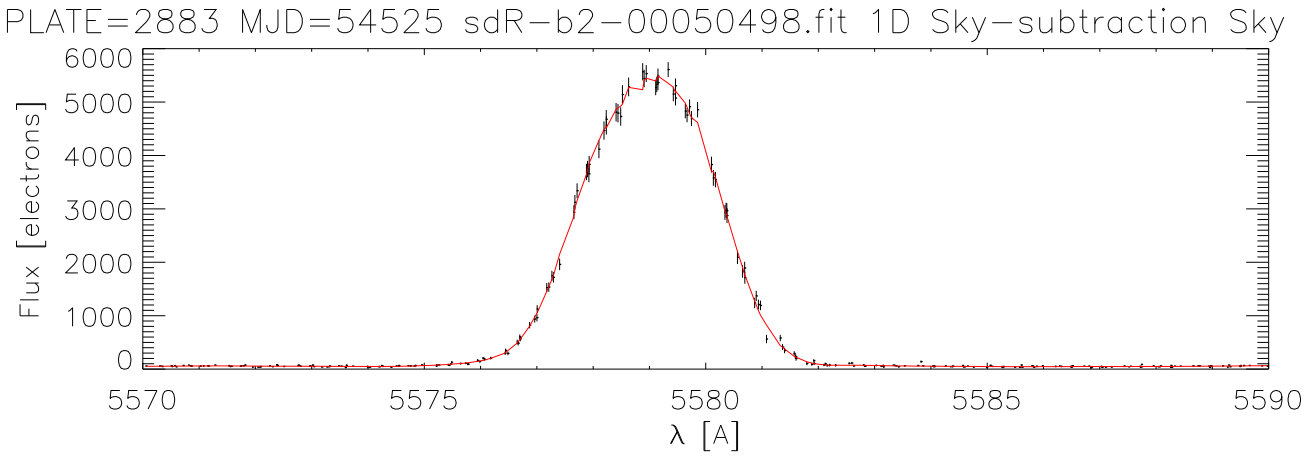

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

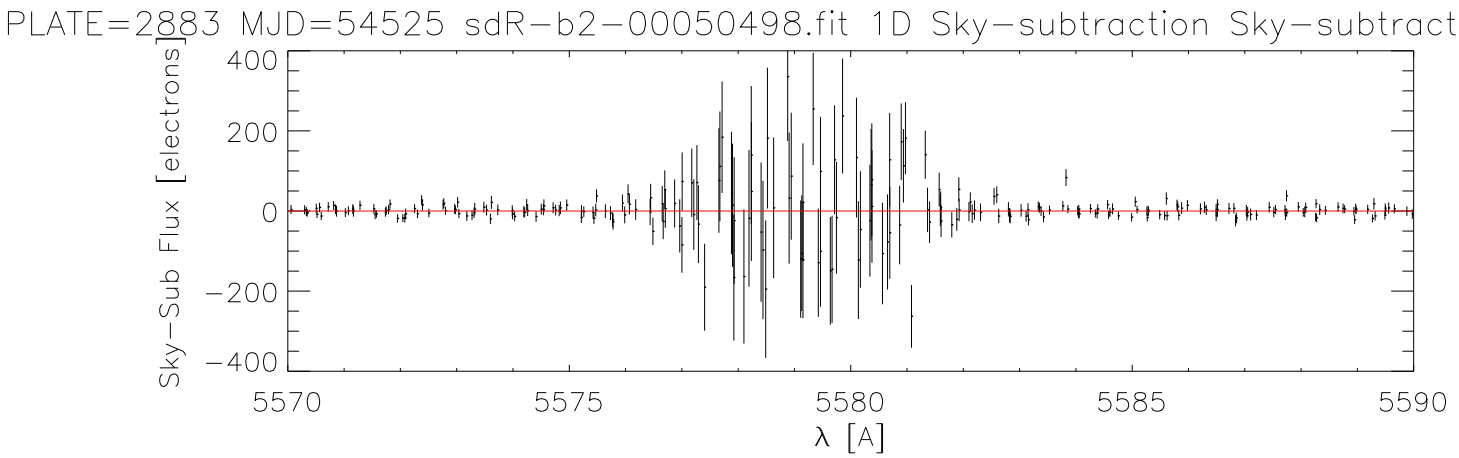

4046.5600
nfib1 16
nfib2 16
stdev 0.095
extra −0.08
4358.3300
nfib1 16
nfib2 16
stdev 0.054
extra −0.10
5460.9400
nfib1 16
nfib2 16
stdev 0.062
extra −0.04
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.01
5889.9500
nfib1 16
nfib2 16
stdev 0.021
extra 0.09
5895.9240
nfib1 16
nfib2 16
stdev 0.034
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

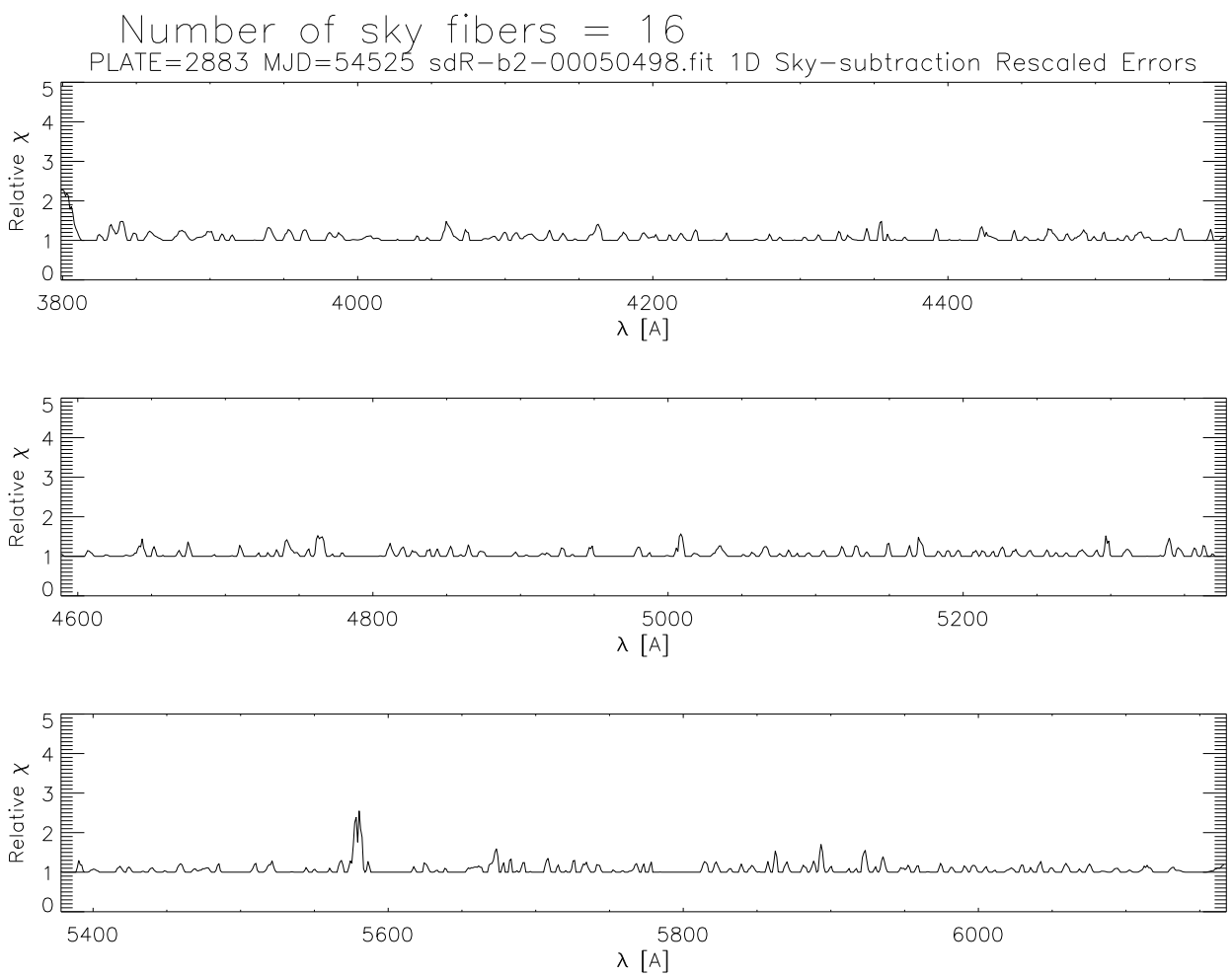

0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

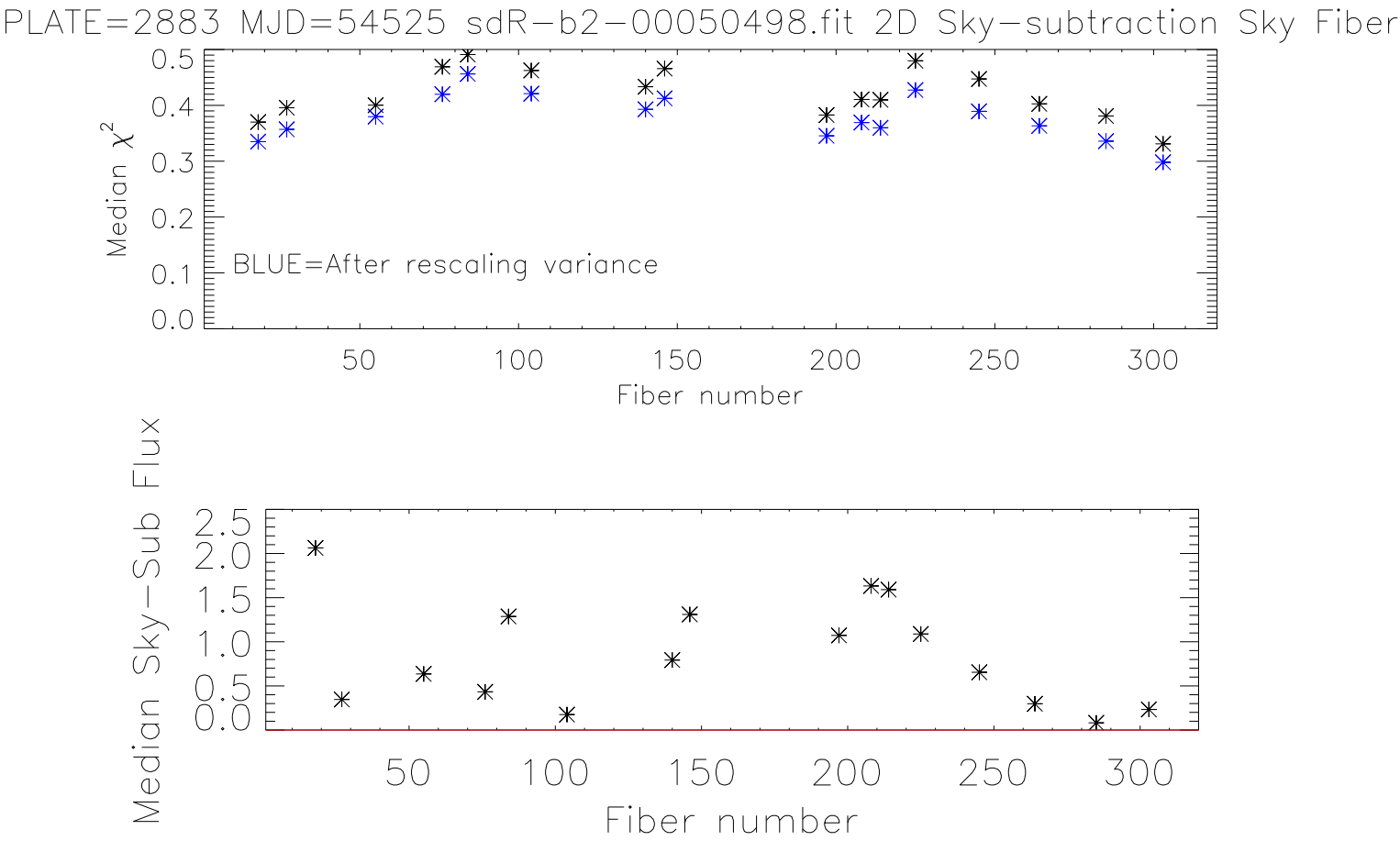

PLATE=2883 MJD=54525 Smooth superflat for sdR-b2-00050498.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

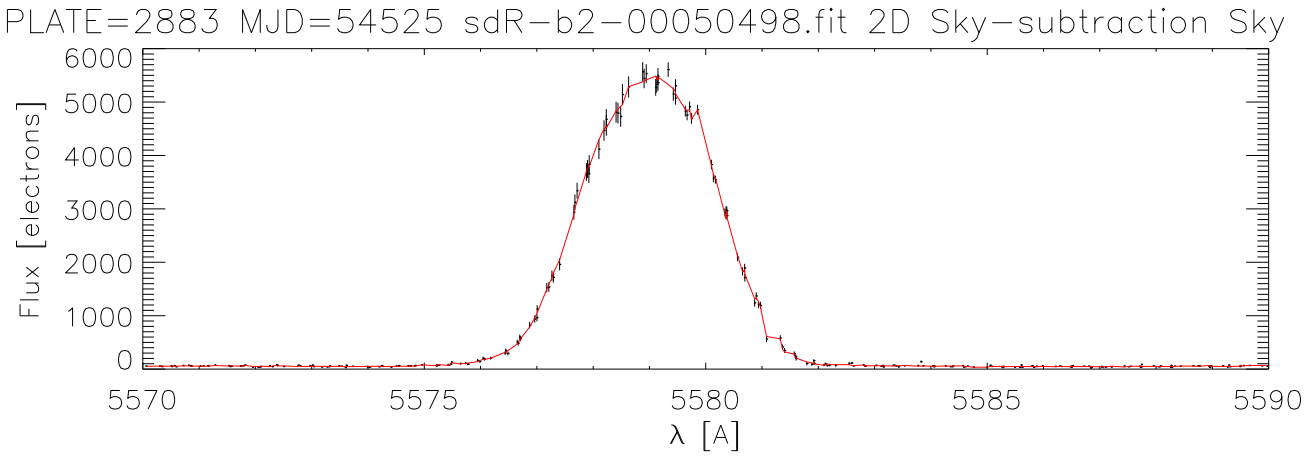

PLATE=2883 MJD=54525 sdR-b2-00050498.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

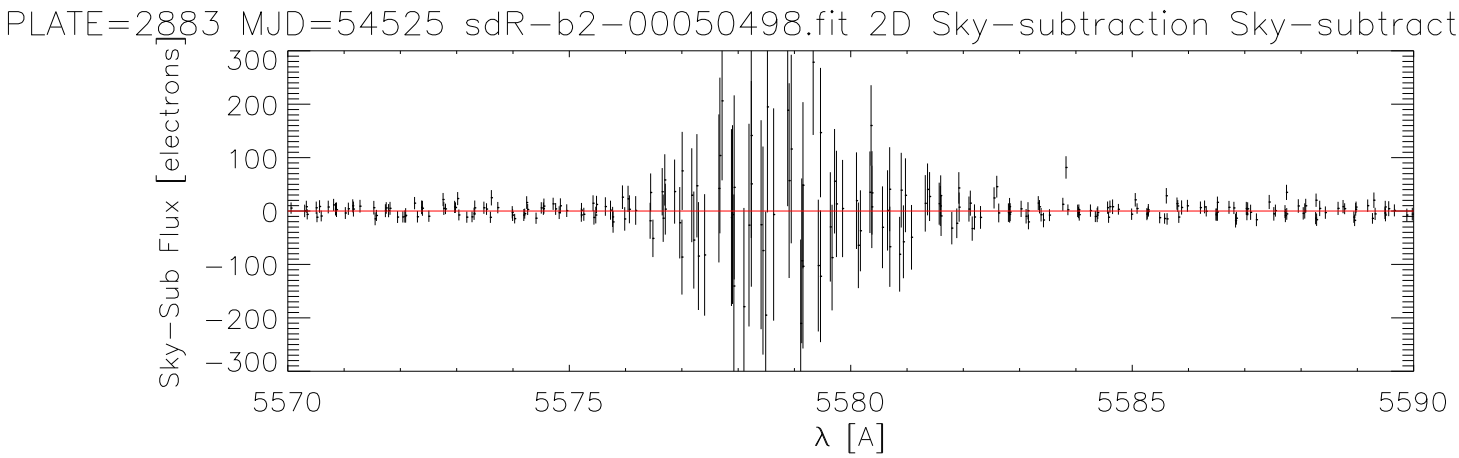

PLATE=2883 MJD=54525 sdR-b2-00050498.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

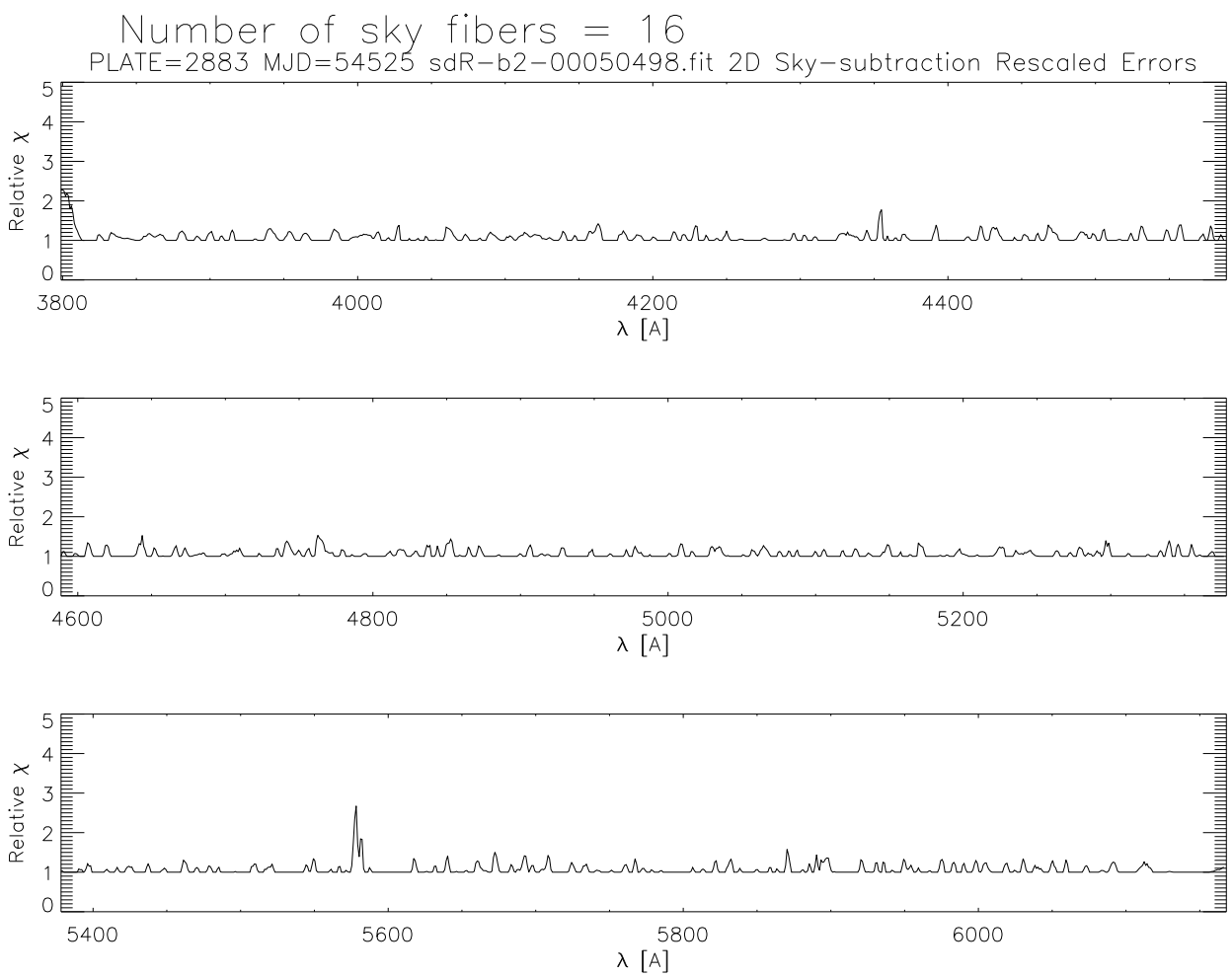

PLATE=2883 MJD=54525 sdR-b2-00050498.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

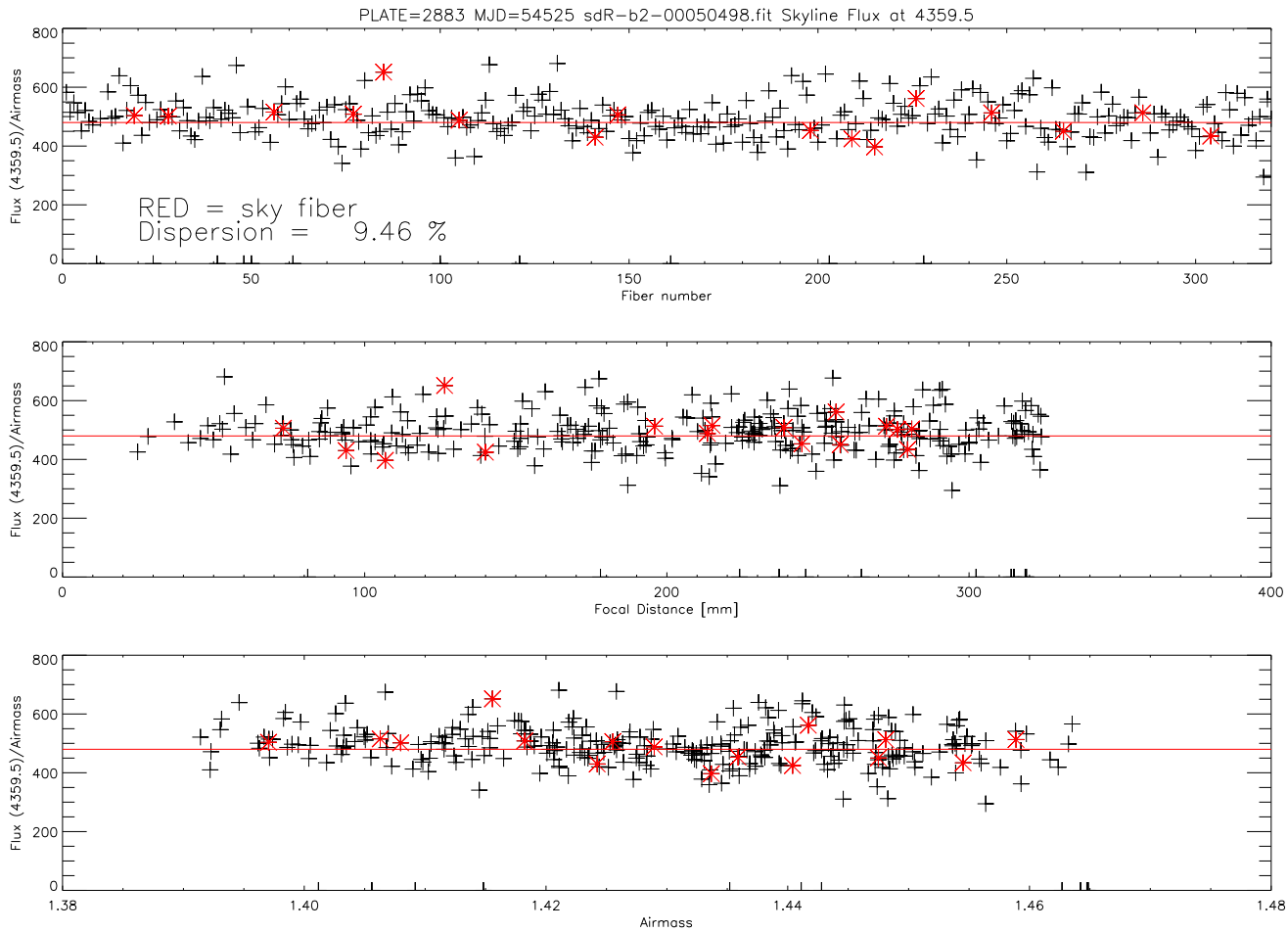

Number of sky fibers = 16
PLATE=2883 MJD=54525 sdR-b2-00050498.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

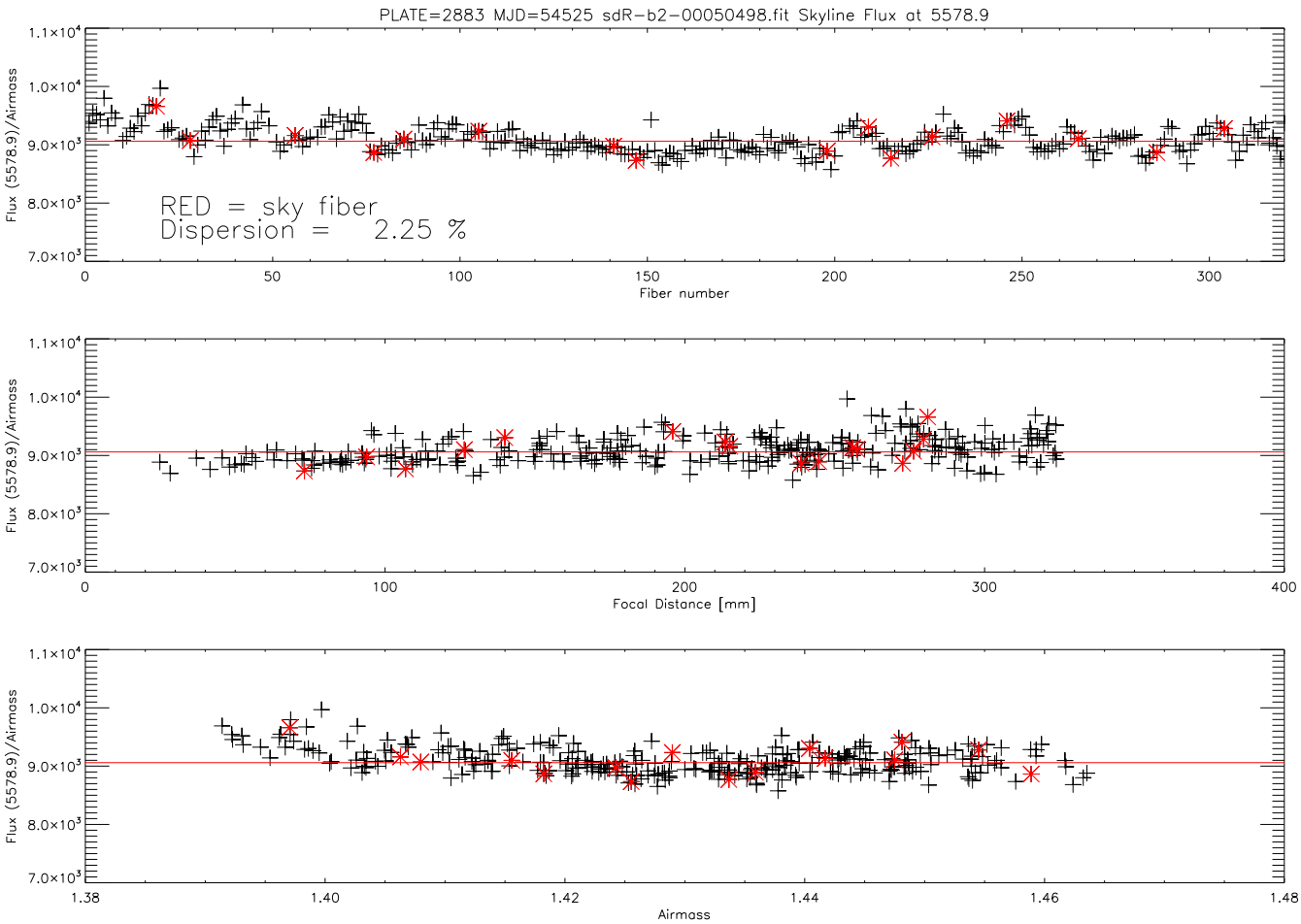

PLATE=2883 MJD=54525 sdR-b2-00050498.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

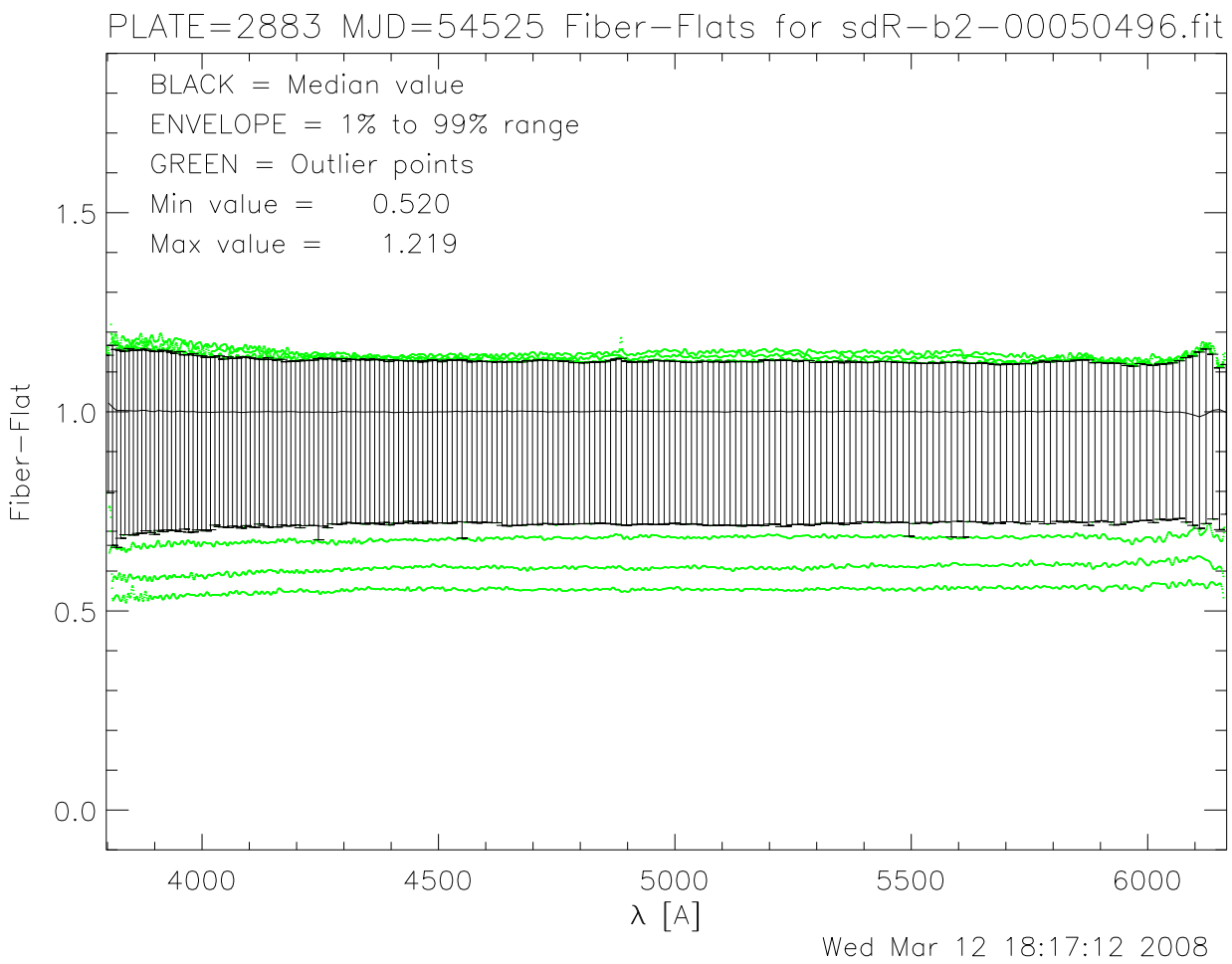

PLATE=2883 MJD=54525 sdR-b2-00050498.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

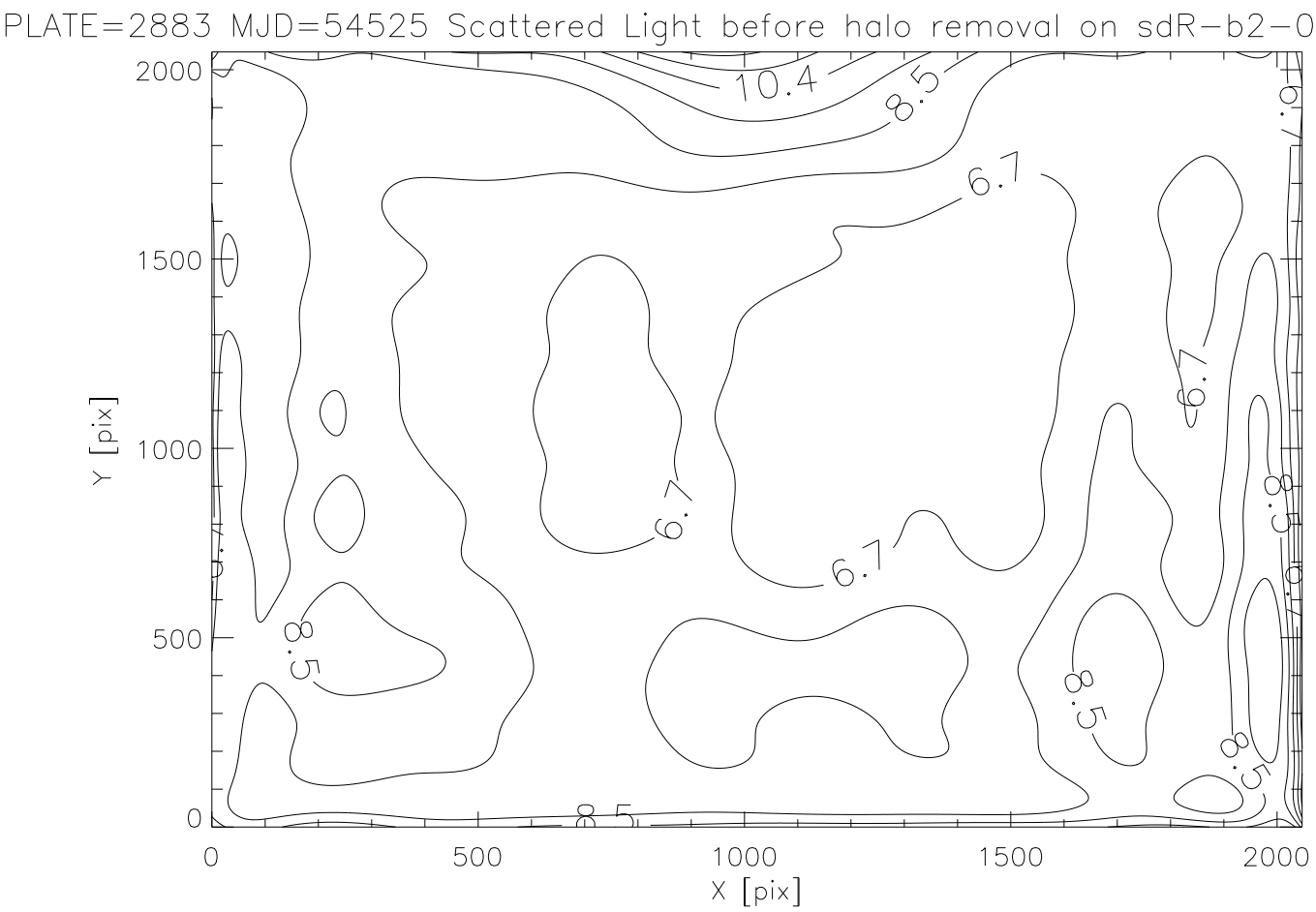

PLATE=2883 MJD=54525 sdR-b2-00050498.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

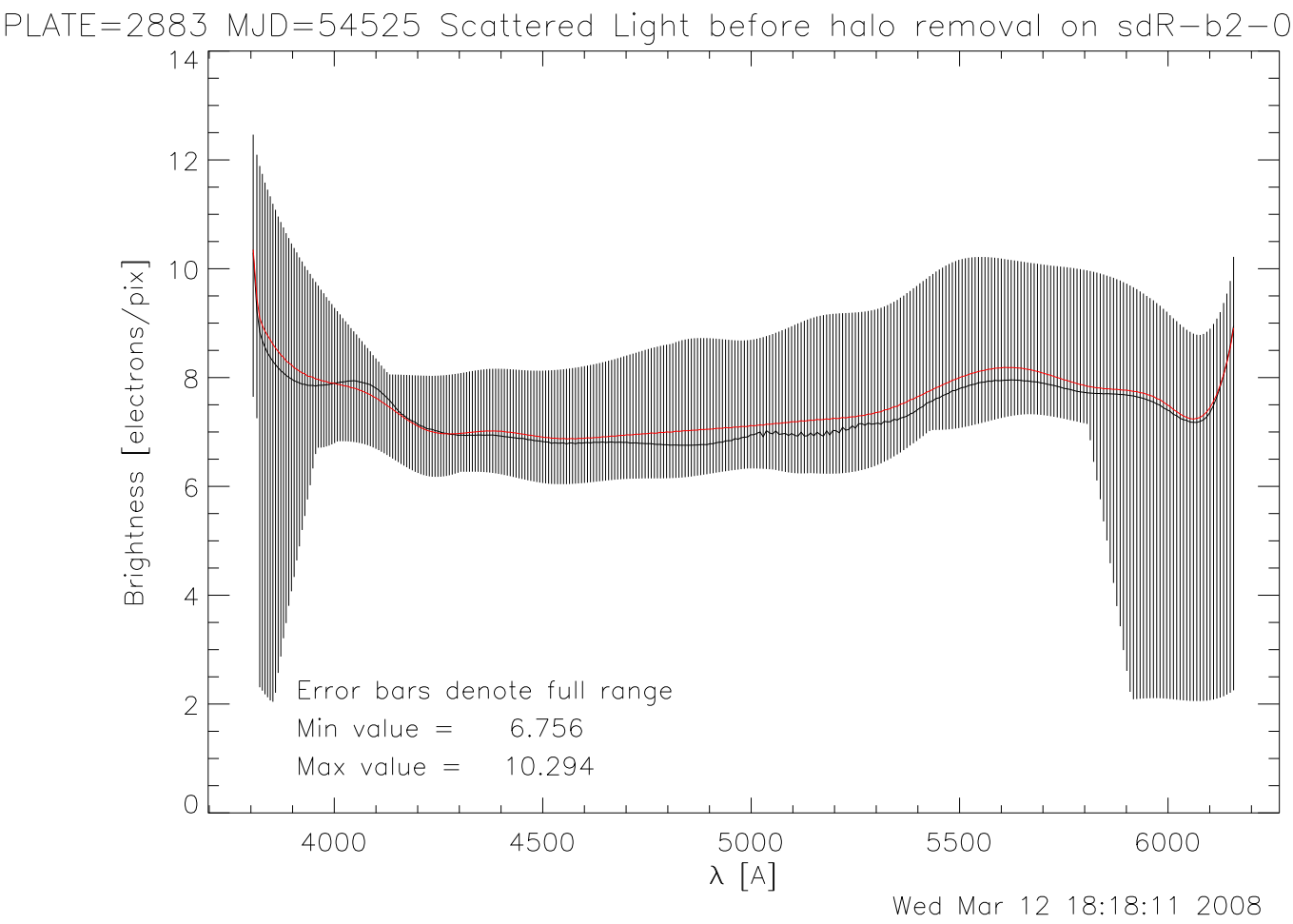

Number of sky fibers = 16
PLATE=2883 MJD=54525 sdR-b2-00050498.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

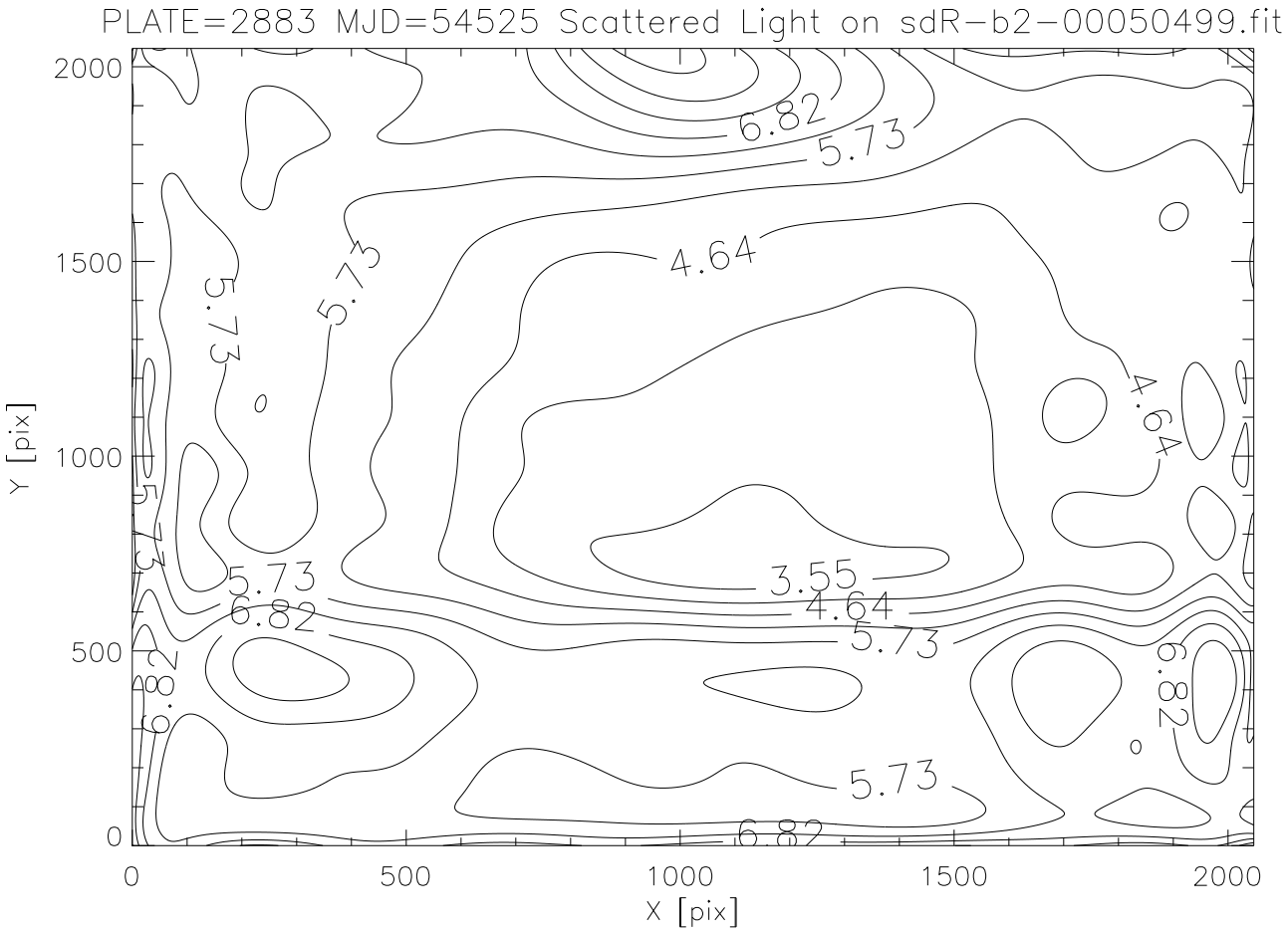

PLATE=2883 MJD=54525 sdR-b2-00050498.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.46 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

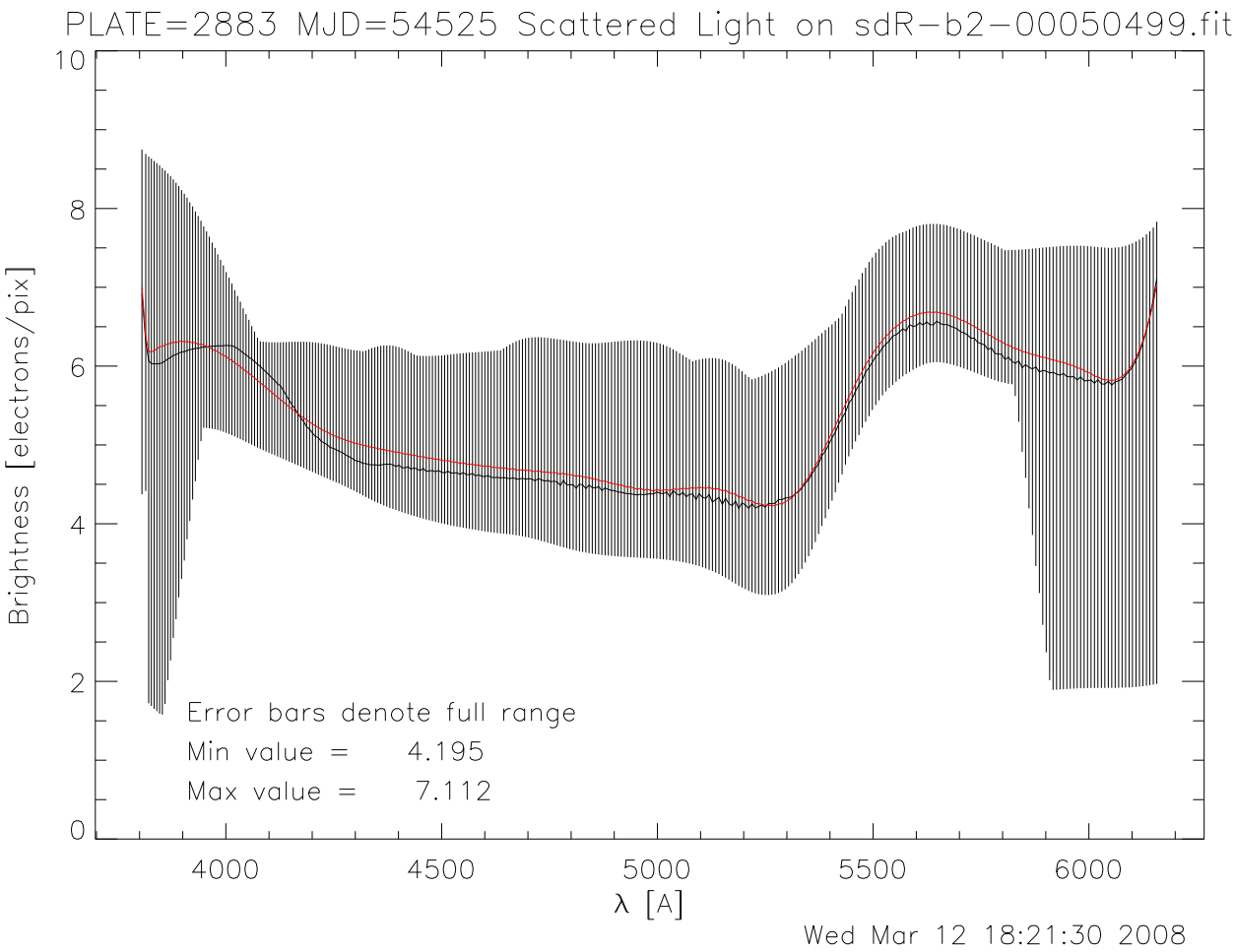

PLATE=2883 MJD=54525 sdR-b2-00050498.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.25 %
Fiber number
Focal Distance [mm]
Airmass

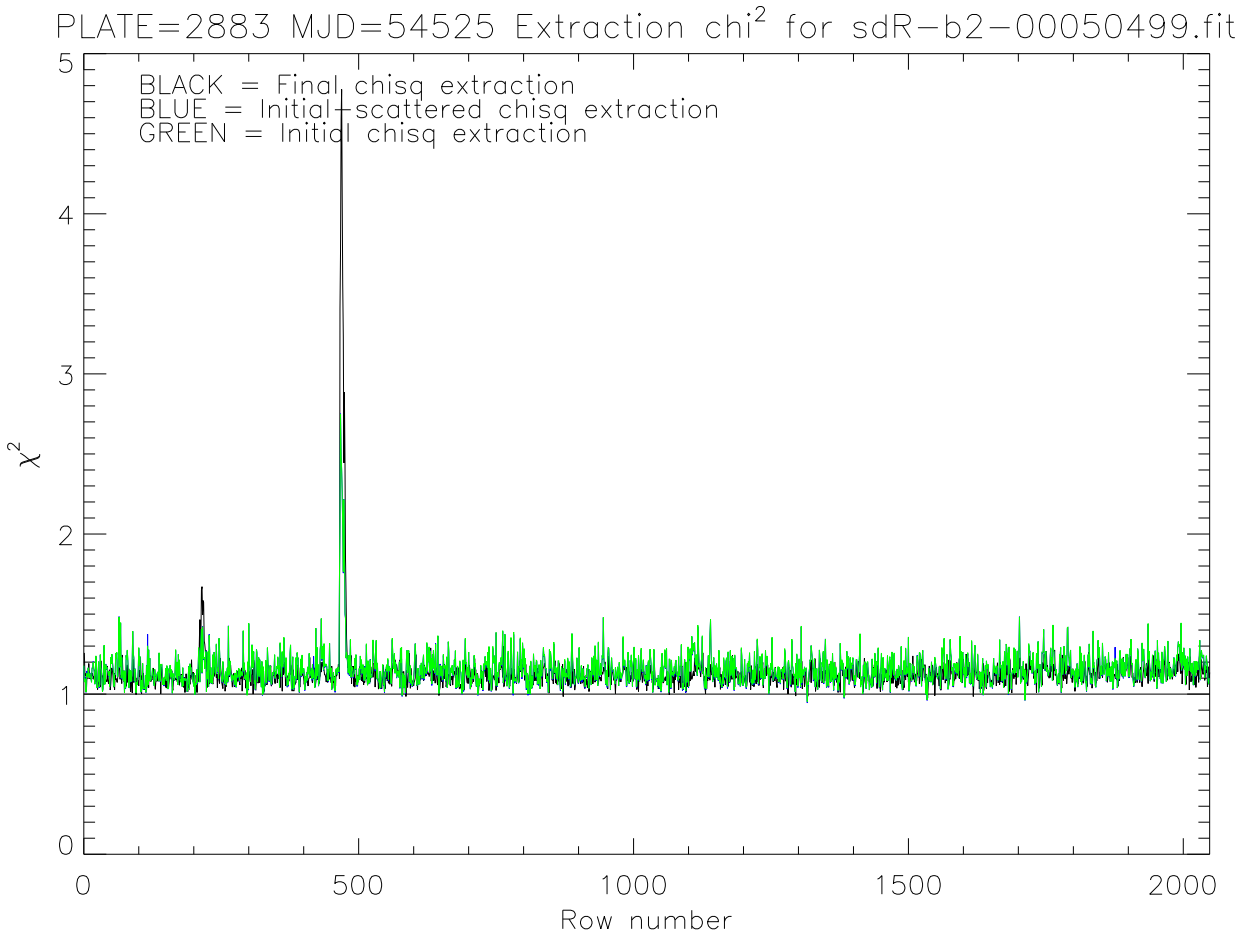

PLATE=2883 MJD=54525 Fiber-Flats for sdR-b2-00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.520
Max value = 1.219
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:17:12 2008

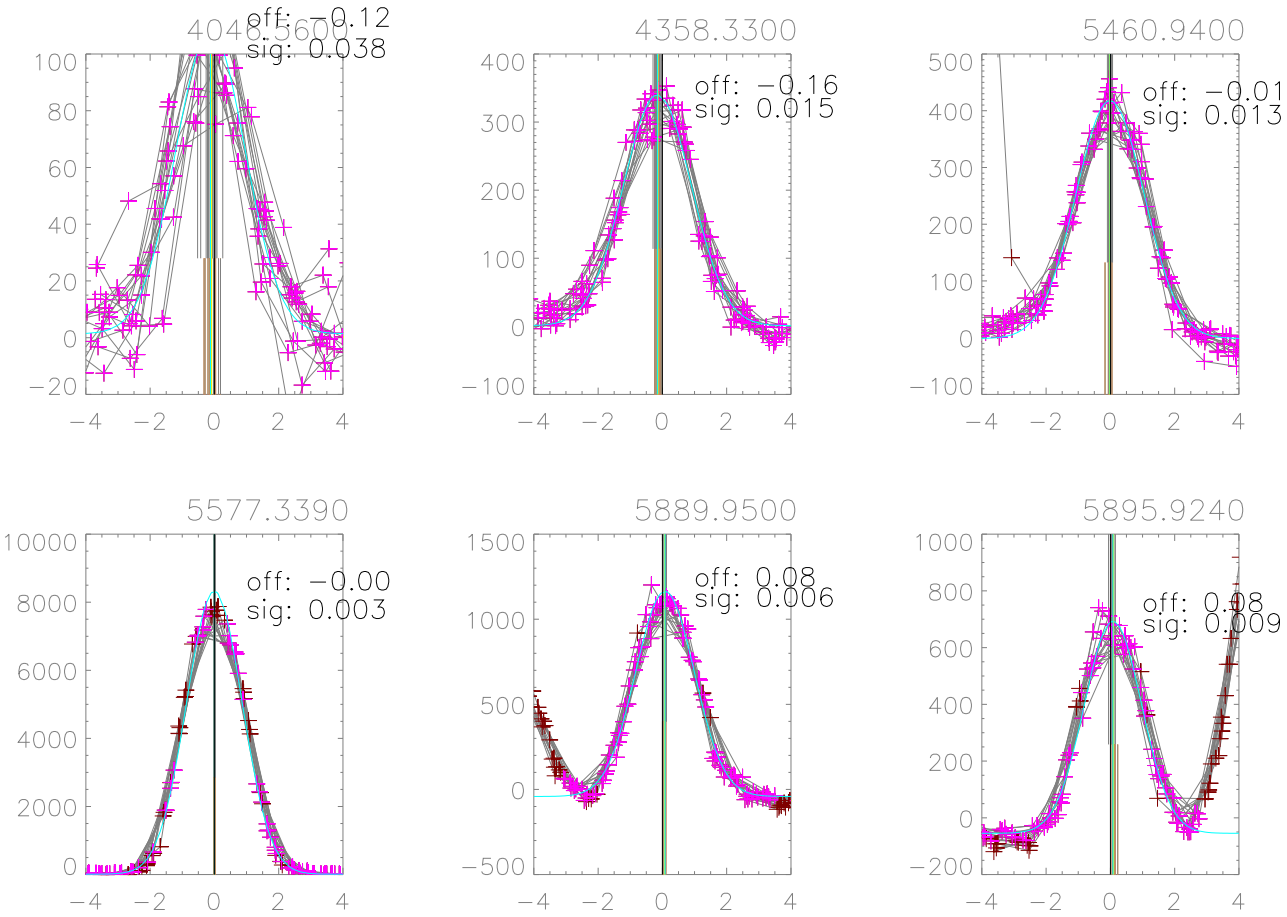

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b2-00050499.f
10.4
8.5
6.7
6.7
6.7
6.7
8.5
8.5
8.5
8.5
8.5
Y [pix]
X [pix]
0
500
1000
1500
2000

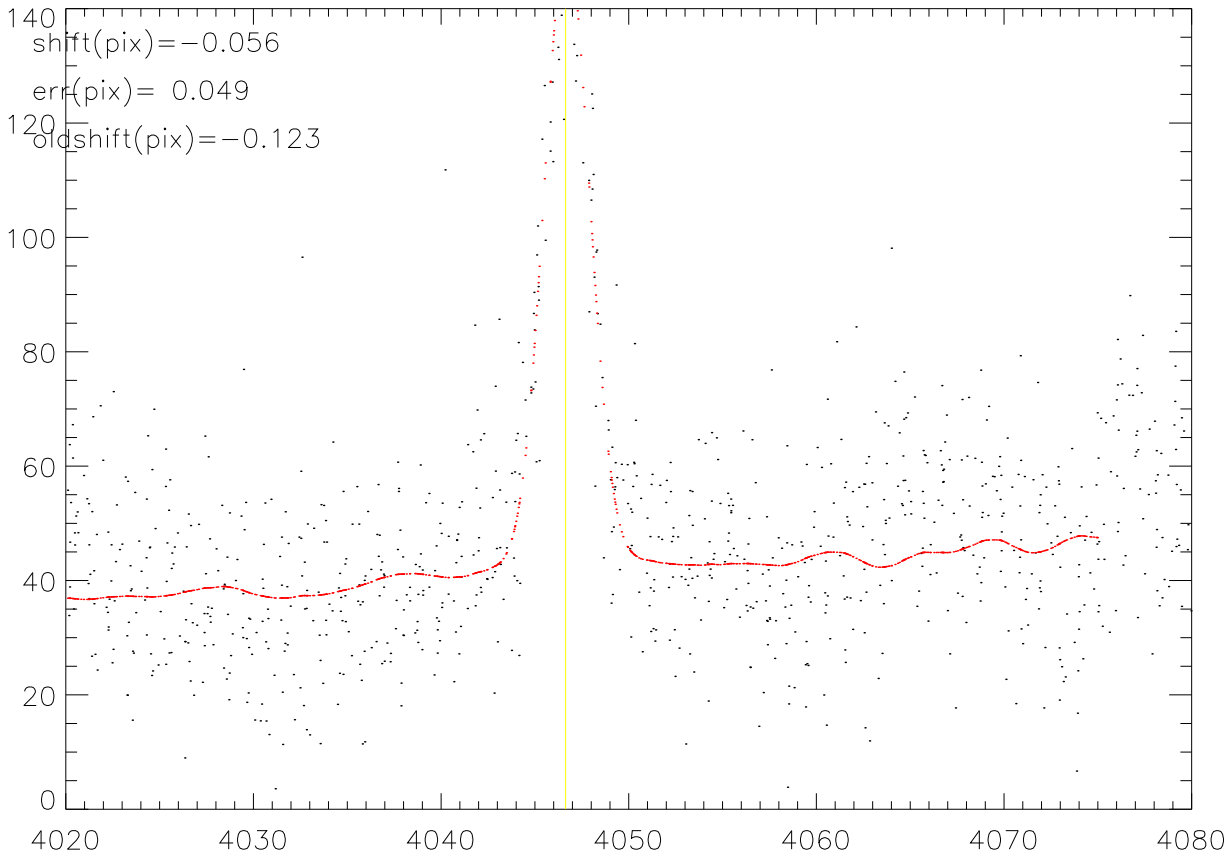

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b2-00050499.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.756
Max value = 10.294
Wed Mar 12 18:18:11 2008

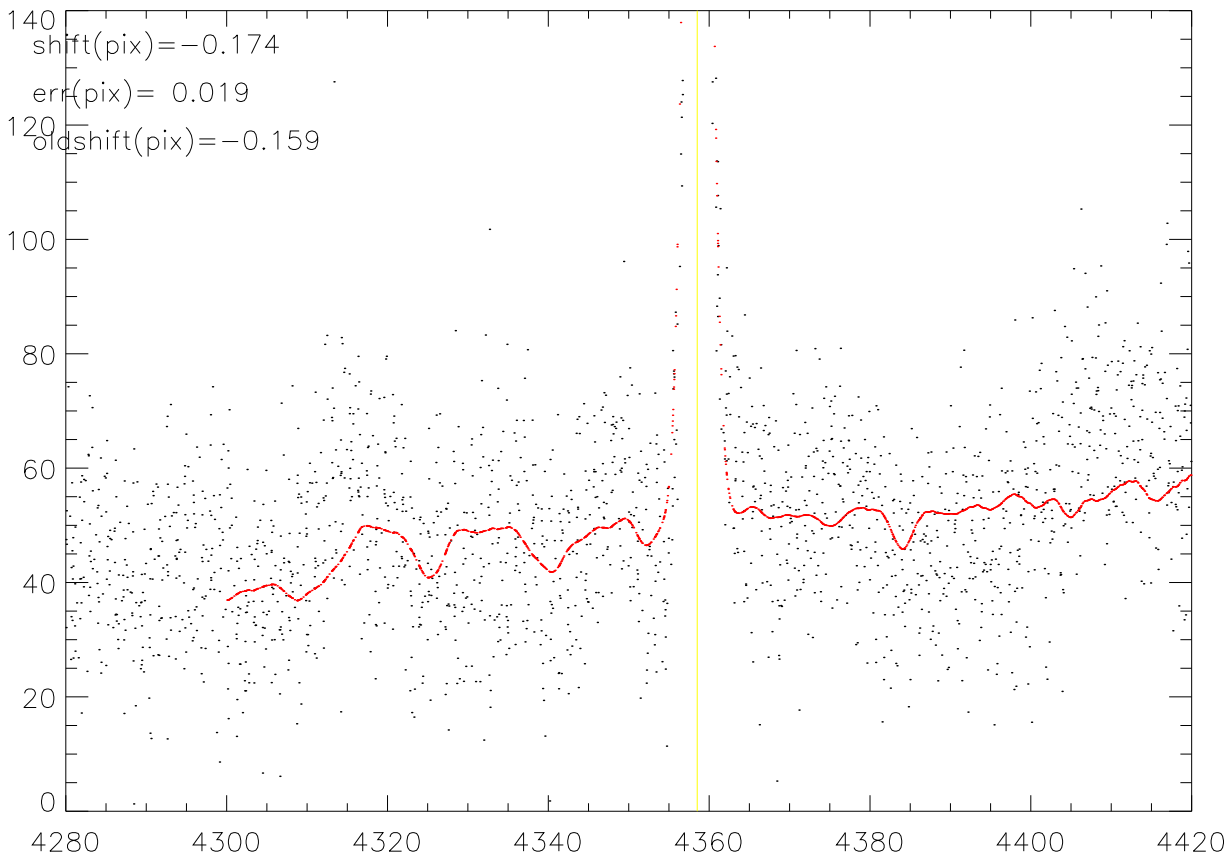

PLATE=2883 MJD=54525 Scattered Light on sdR-b2-00050499.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.82
5.73
4.64
3.55
5.73
4.64
5.73
6.82
5.73
6.82
5.73
4.64
5.73
6.82
5.73
6.82

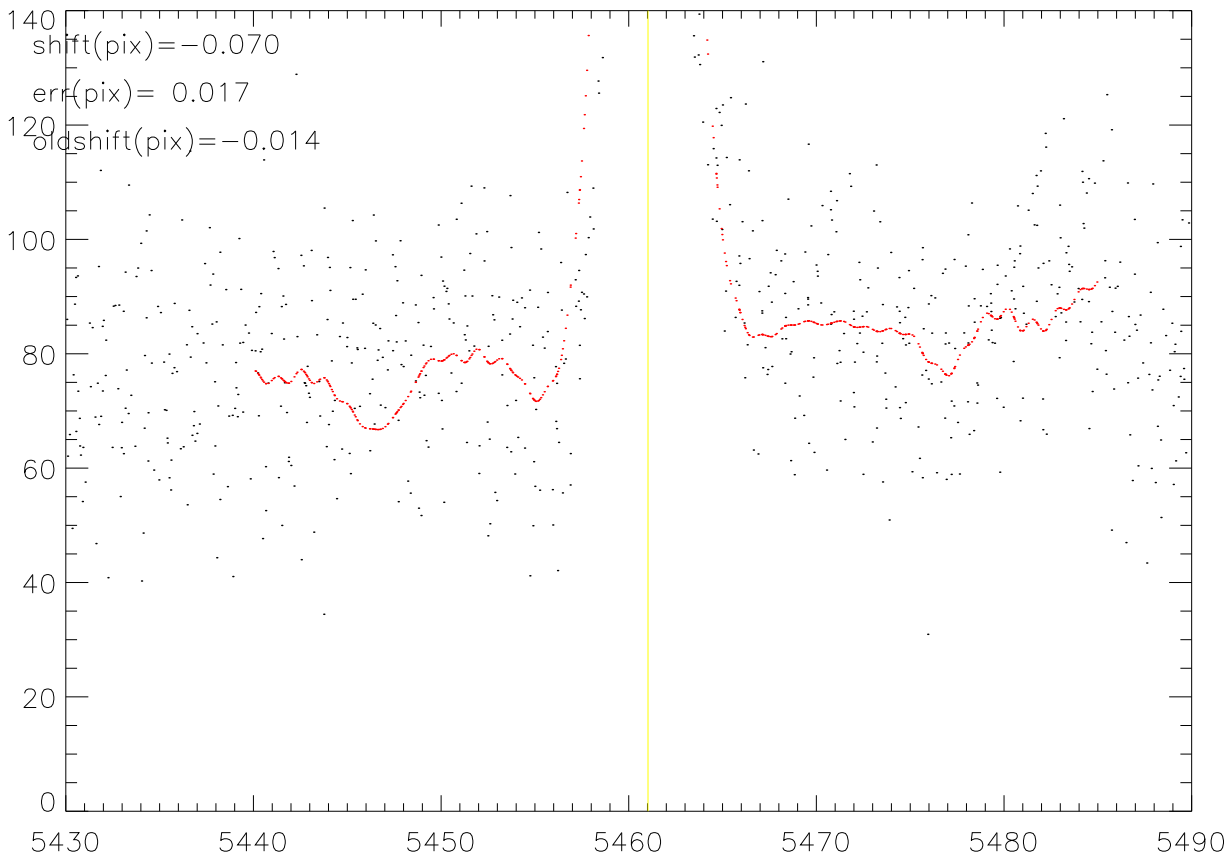

PLATE=2883 MJD=54525 Scattered Light on sdR-b2-00050499.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.195
Max value = 7.112
Wed Mar 12 18:21:30 2008

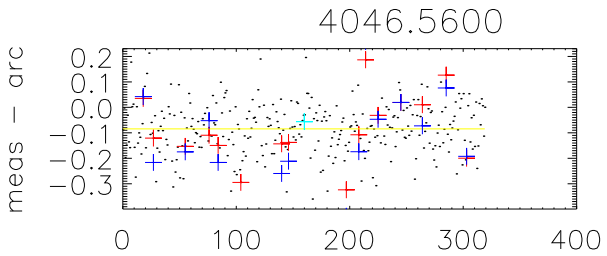

PLATE=2883 MJD=54525 Extraction chi^2 for sdR-b2-00050499.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

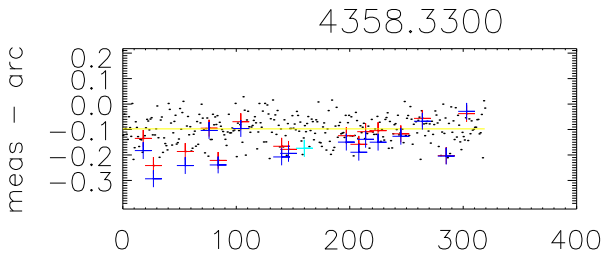

4048.5600
off: −0.12
sig: 0.038
4358.3300
off: −0.16
sig: 0.015
5460.9400
off: −0.01
sig: 0.013
5577.3390
off: −0.00
sig: 0.003
5889.9500
off: 0.08
sig: 0.006
5895.9240
off: 0.08
sig: 0.009

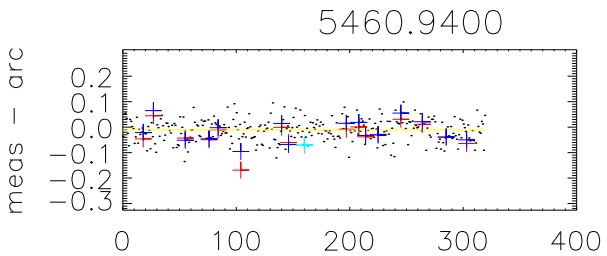

shift(pix)=−0.056
err(pix)= 0.049
oldshift(pix)=−0.123
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

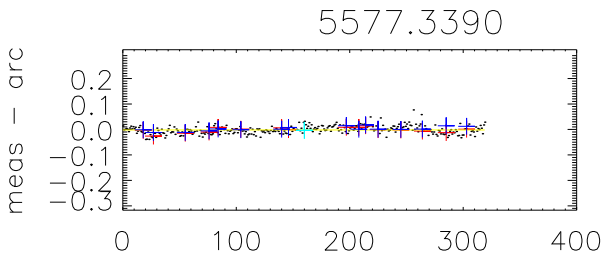

shift(pix)=−0.174
err(pix)= 0.019
oldshift(pix)=−0.159
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

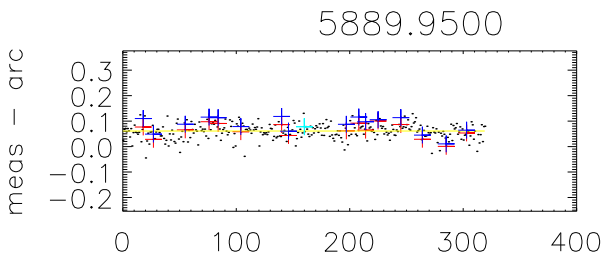

shift(pix)=−0.070
err(pix)= 0.017
oldshift(pix)=−0.014
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

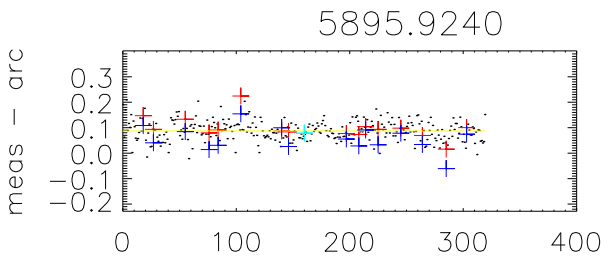

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

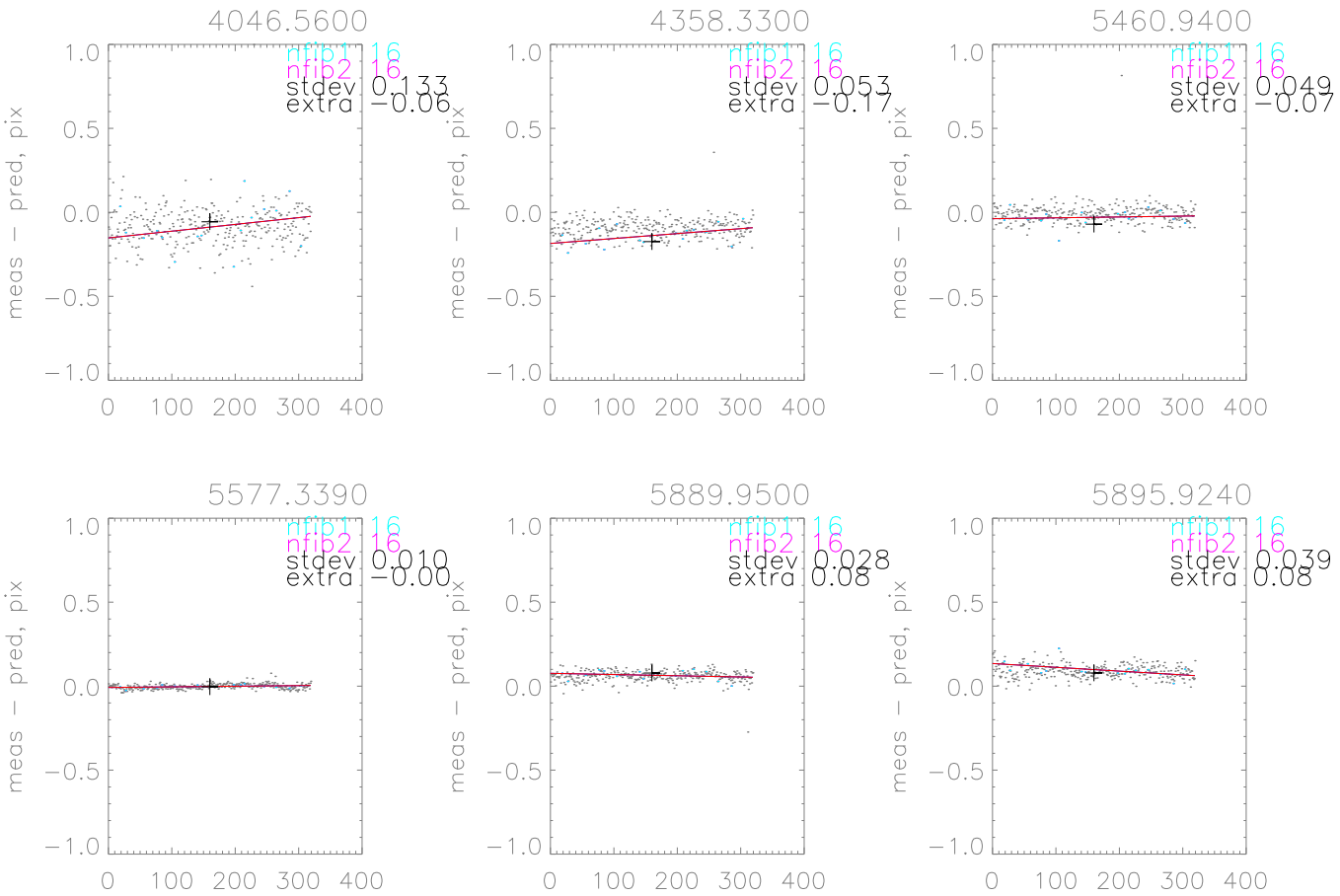

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

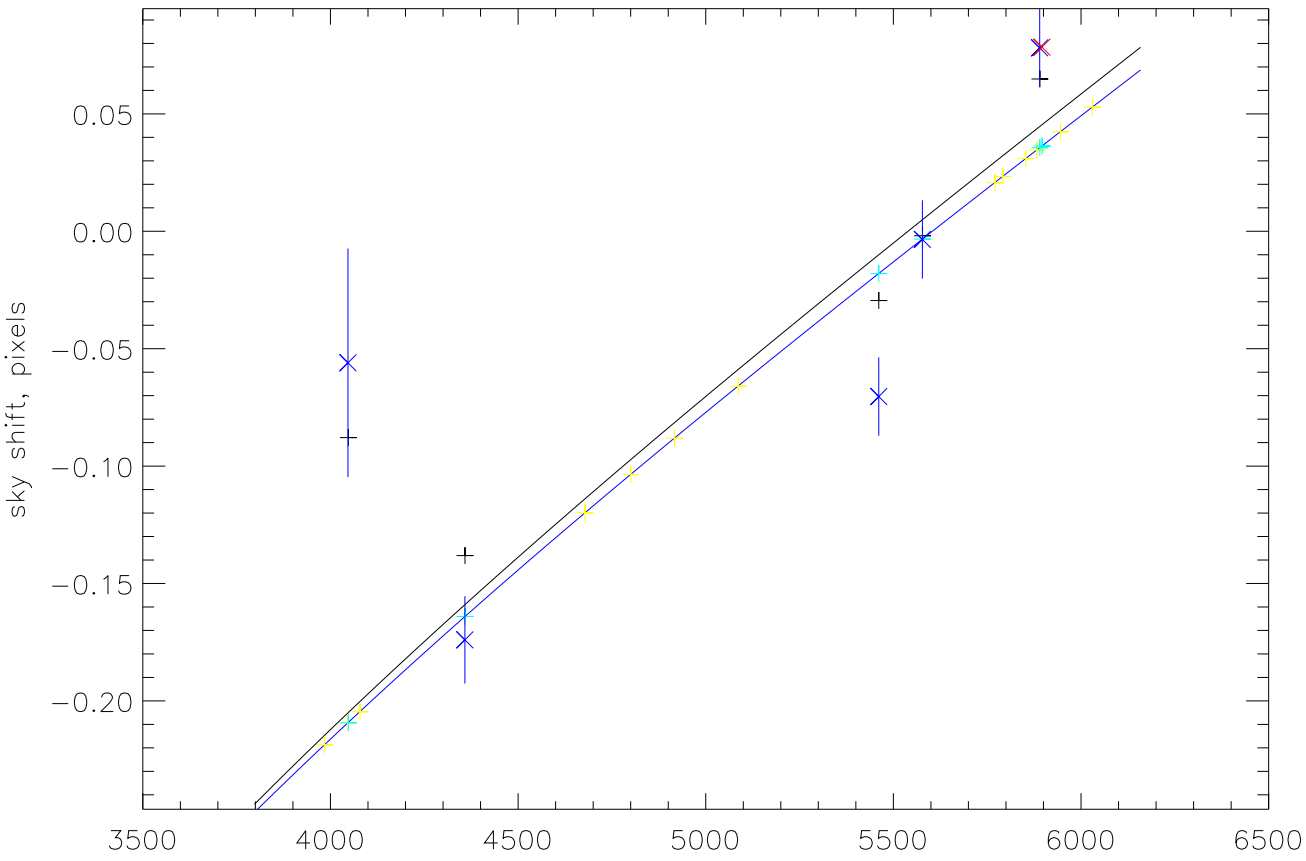

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

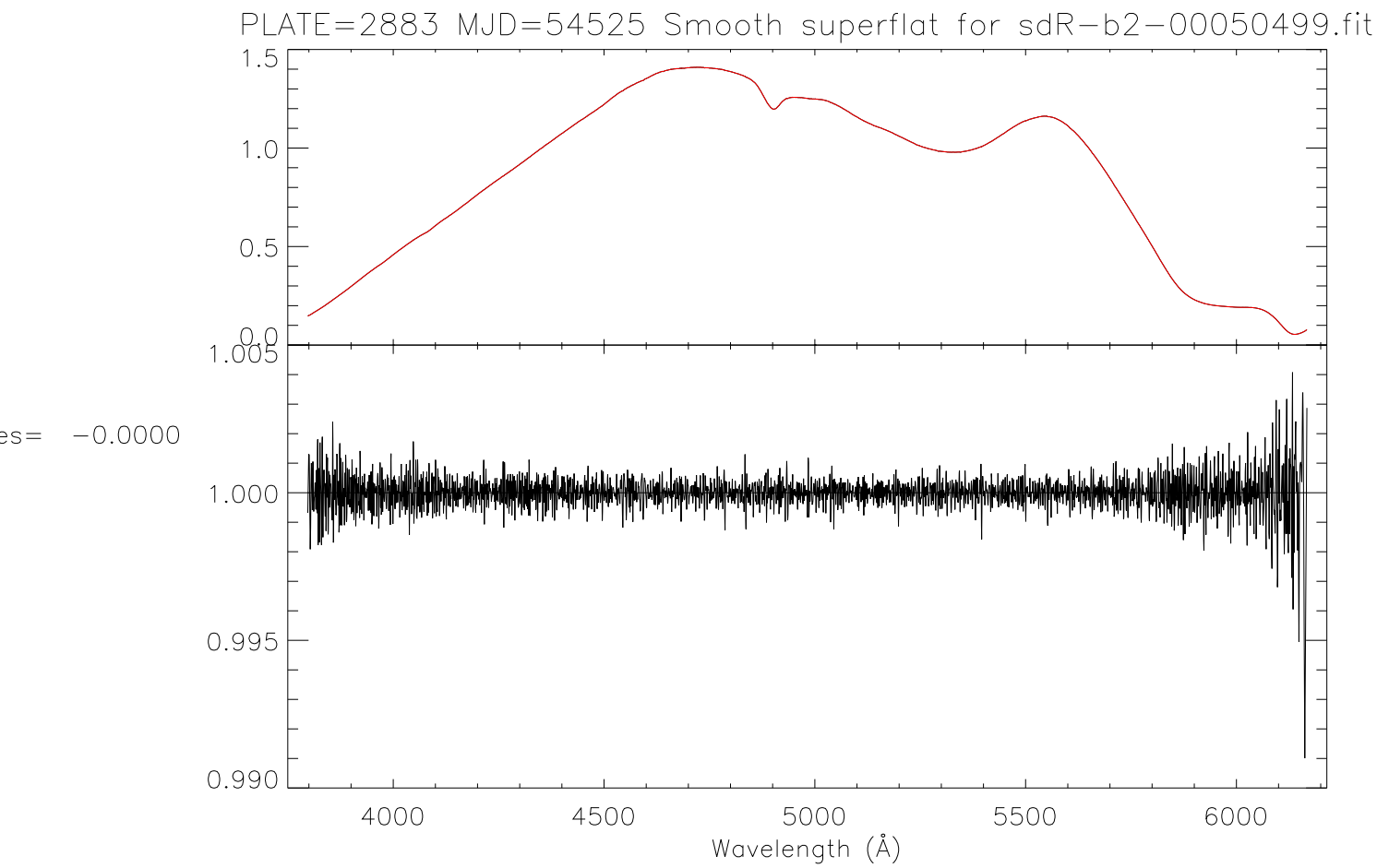

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

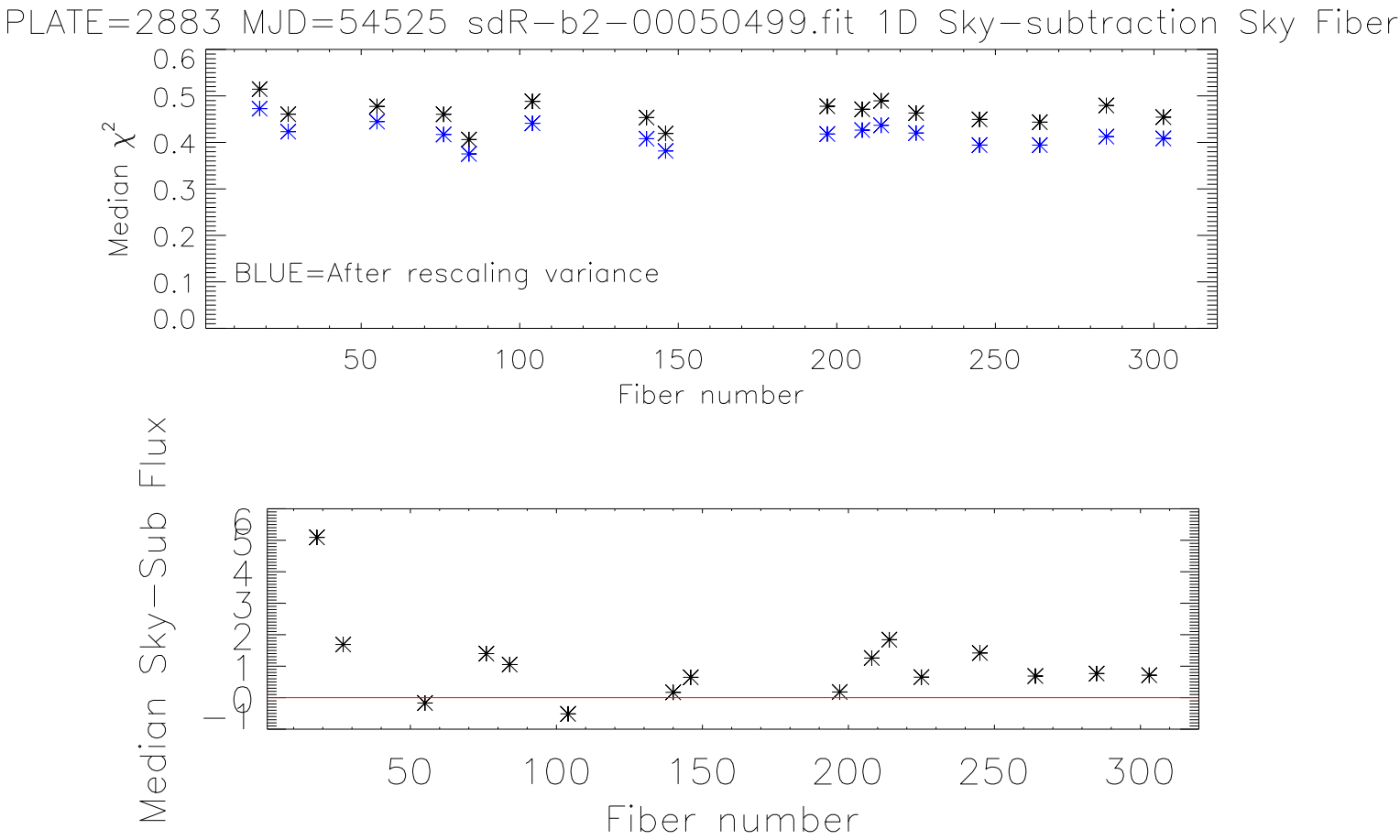

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

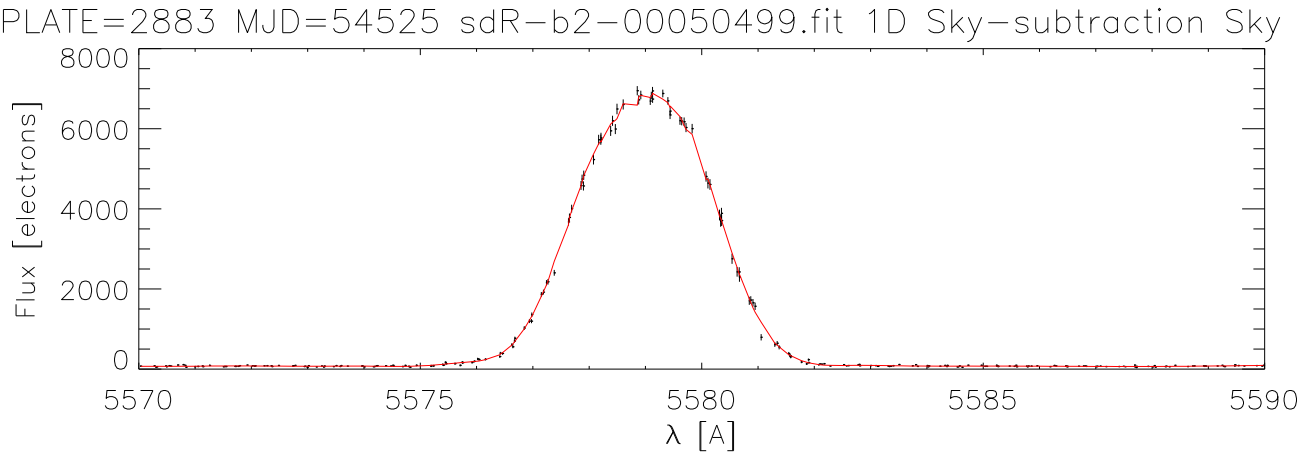

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

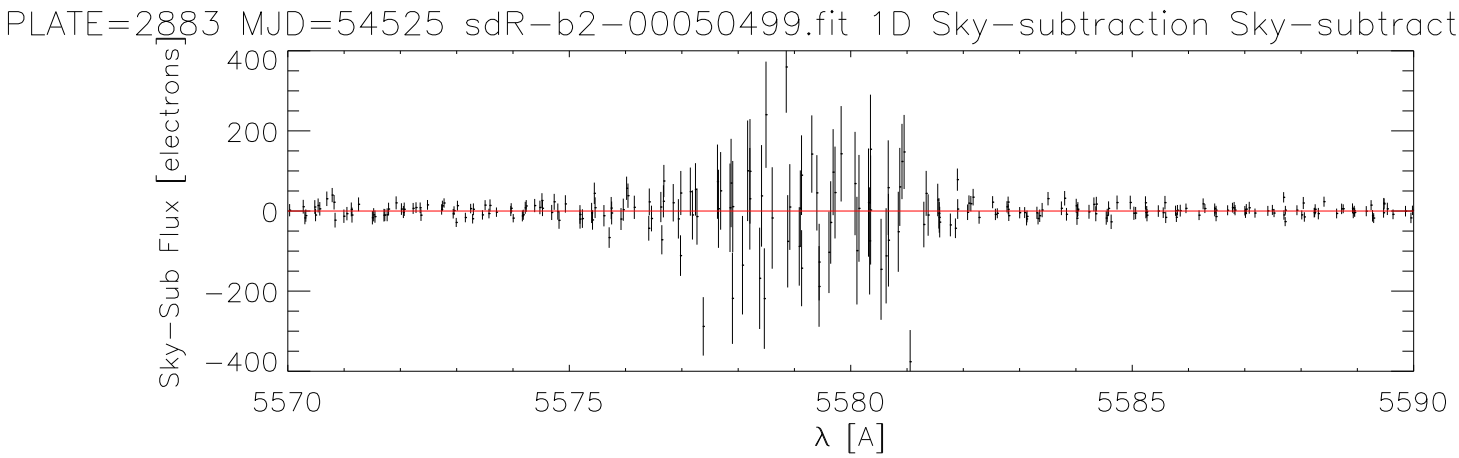

4046.5600
nfib1 16
nfib2 16
stdev 0.133
extra −0.06
4358.3300
nfib1 16
nfib2 16
stdev 0.053
extra −0.17
5460.9400
nfib1 16
nfib2 16
stdev 0.049
extra −0.07
5577.3390
nfib1 16
nfib2 16
stdev 0.010
extra −0.00
5889.9500
nfib1 16
nfib2 16
stdev 0.028
extra 0.08
5895.9240
nfib1 16
nfib2 16
stdev 0.039
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

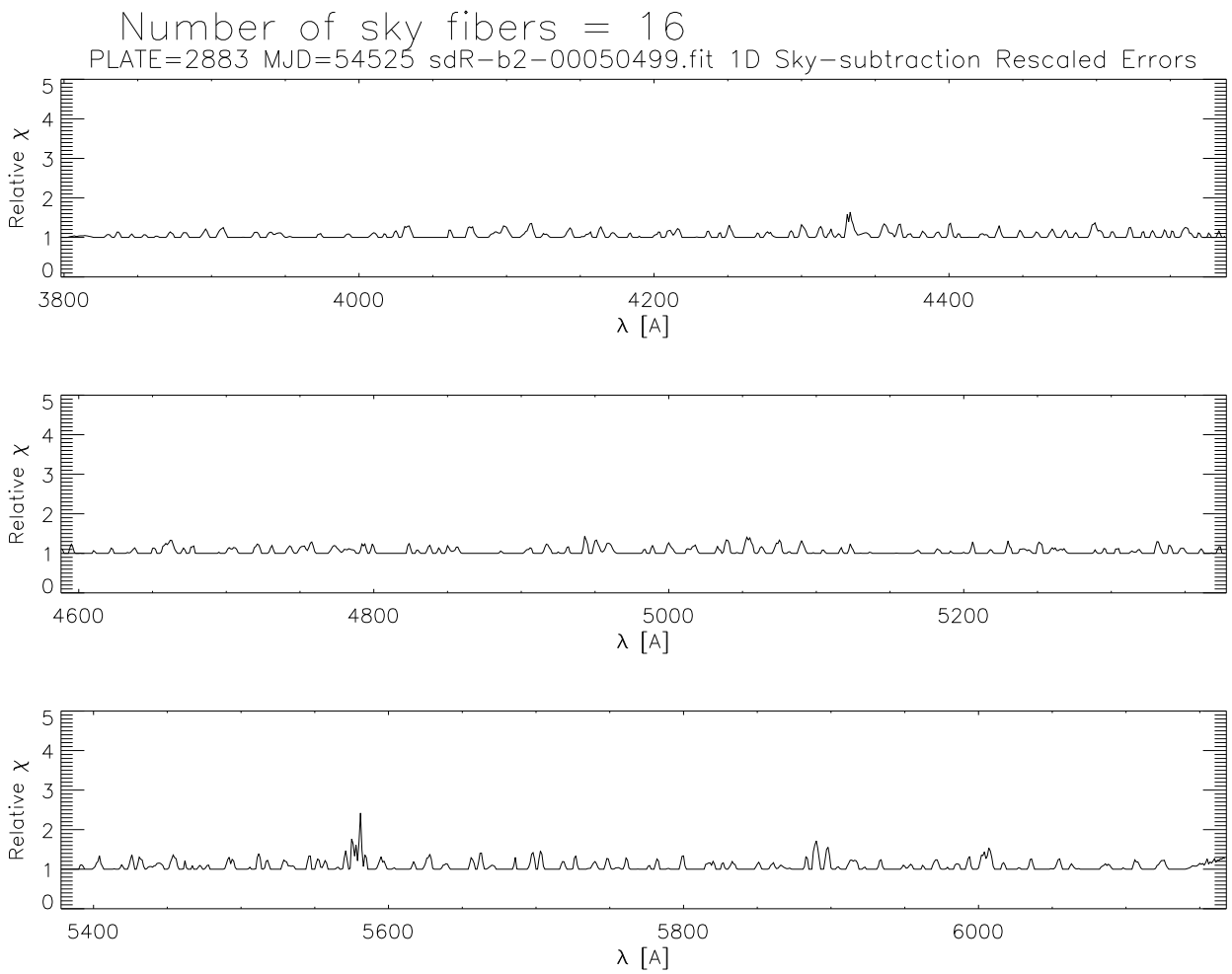

sky shift, pixels
0.05
0.00
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

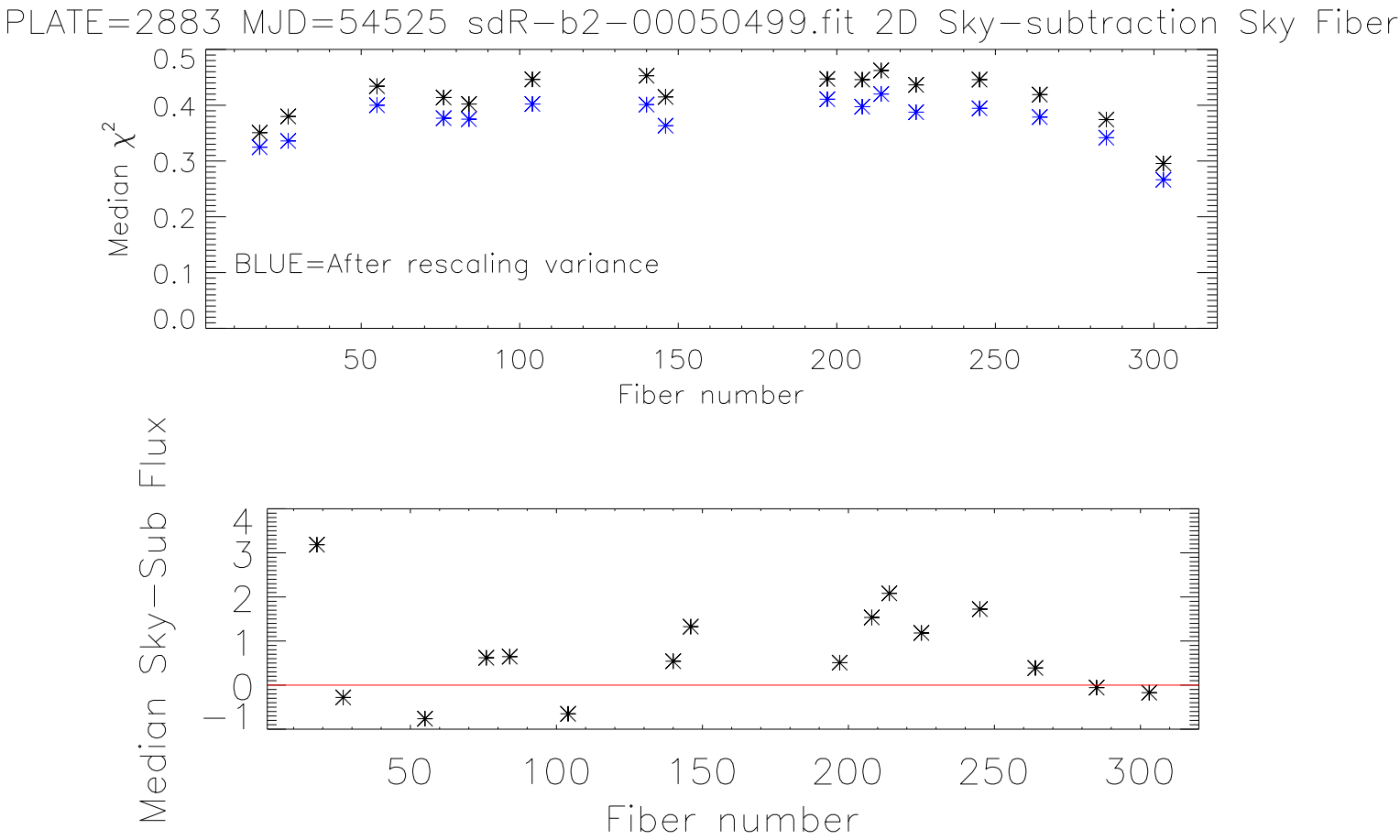

PLATE=2883 MJD=54525 Smooth superflat for sdR-b2-00050499.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

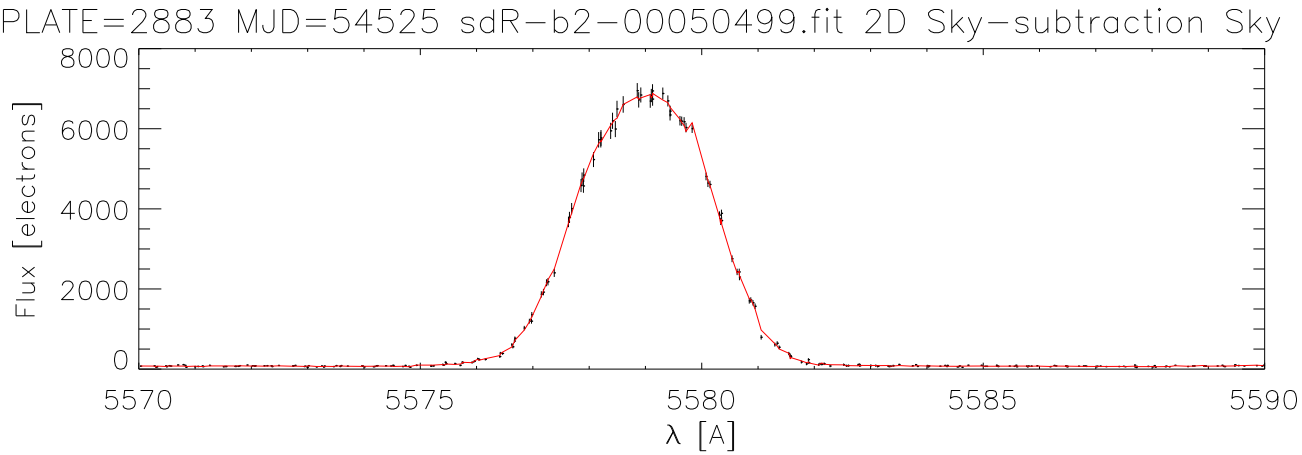

PLATE=2883 MJD=54525 sdR-b2-00050499.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
4
5
6
50
100
150
200
250
300
Fiber number

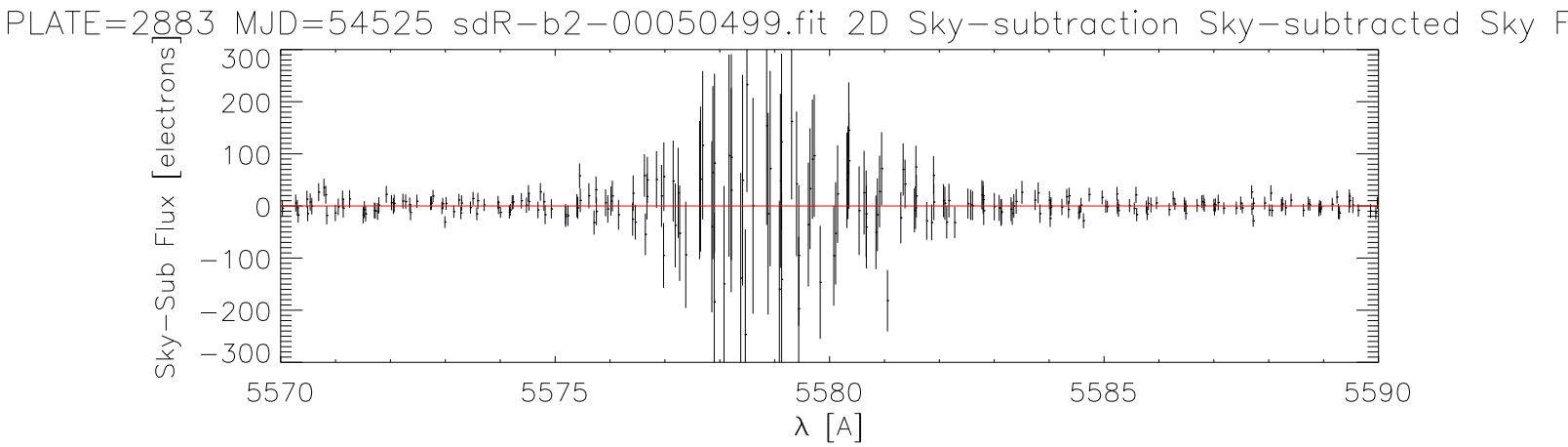

PLATE=2883 MJD=54525 sdR-b2-00050499.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

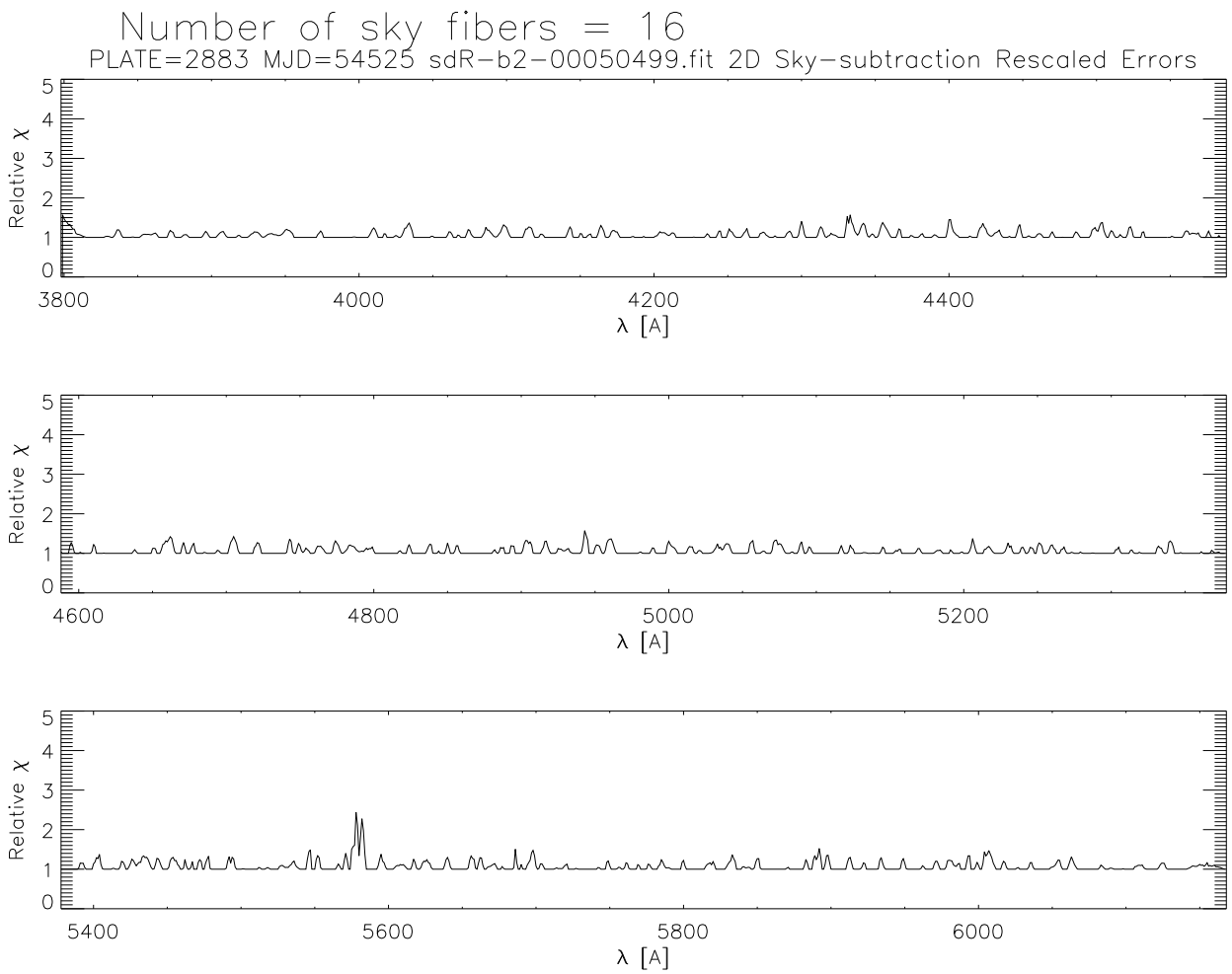

PLATE=2883 MJD=54525 sdR-b2-00050499.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

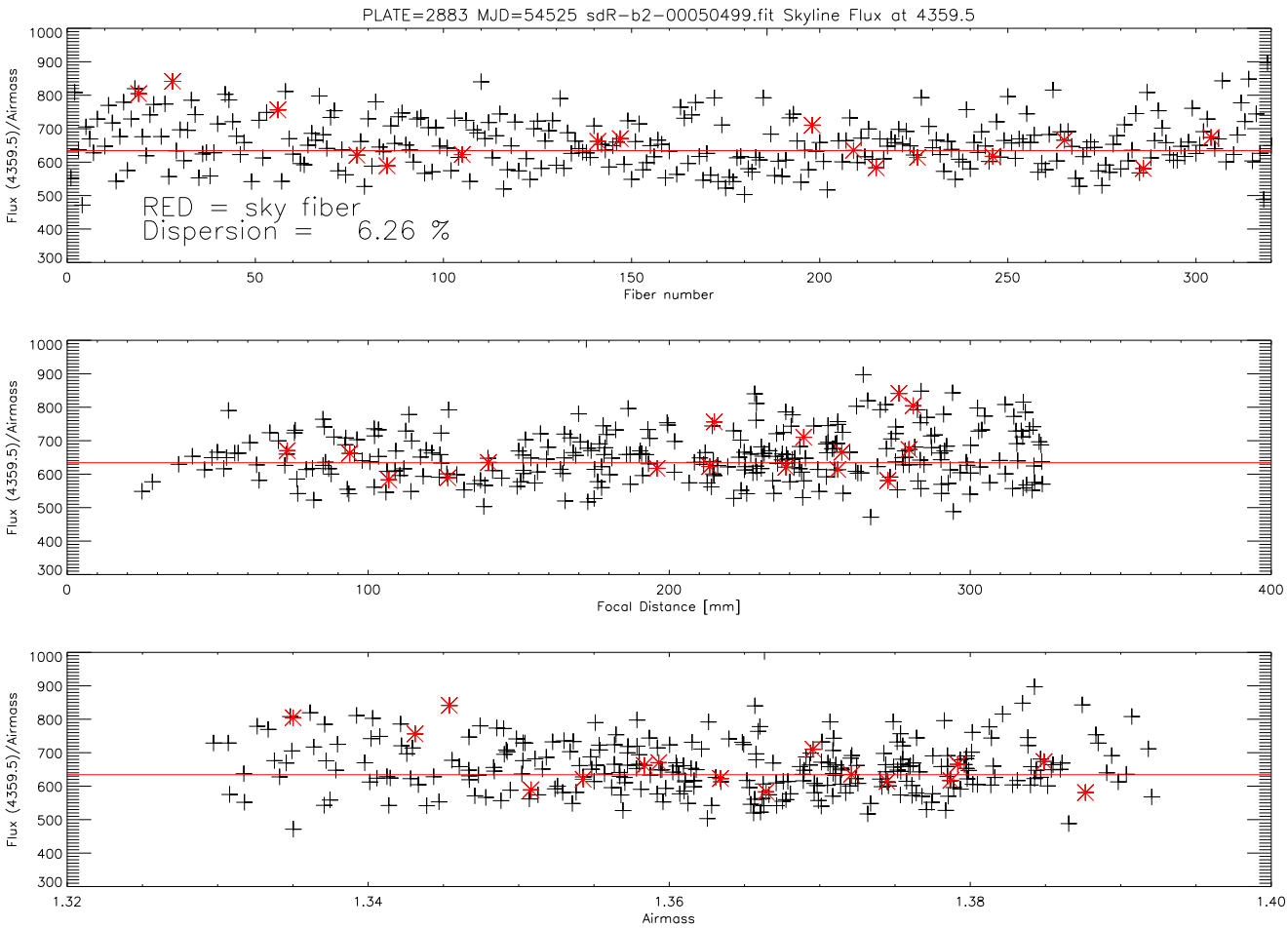

Number of sky fibers = 16
PLATE=2883 MJD=54525 sdR-b2-00050499.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

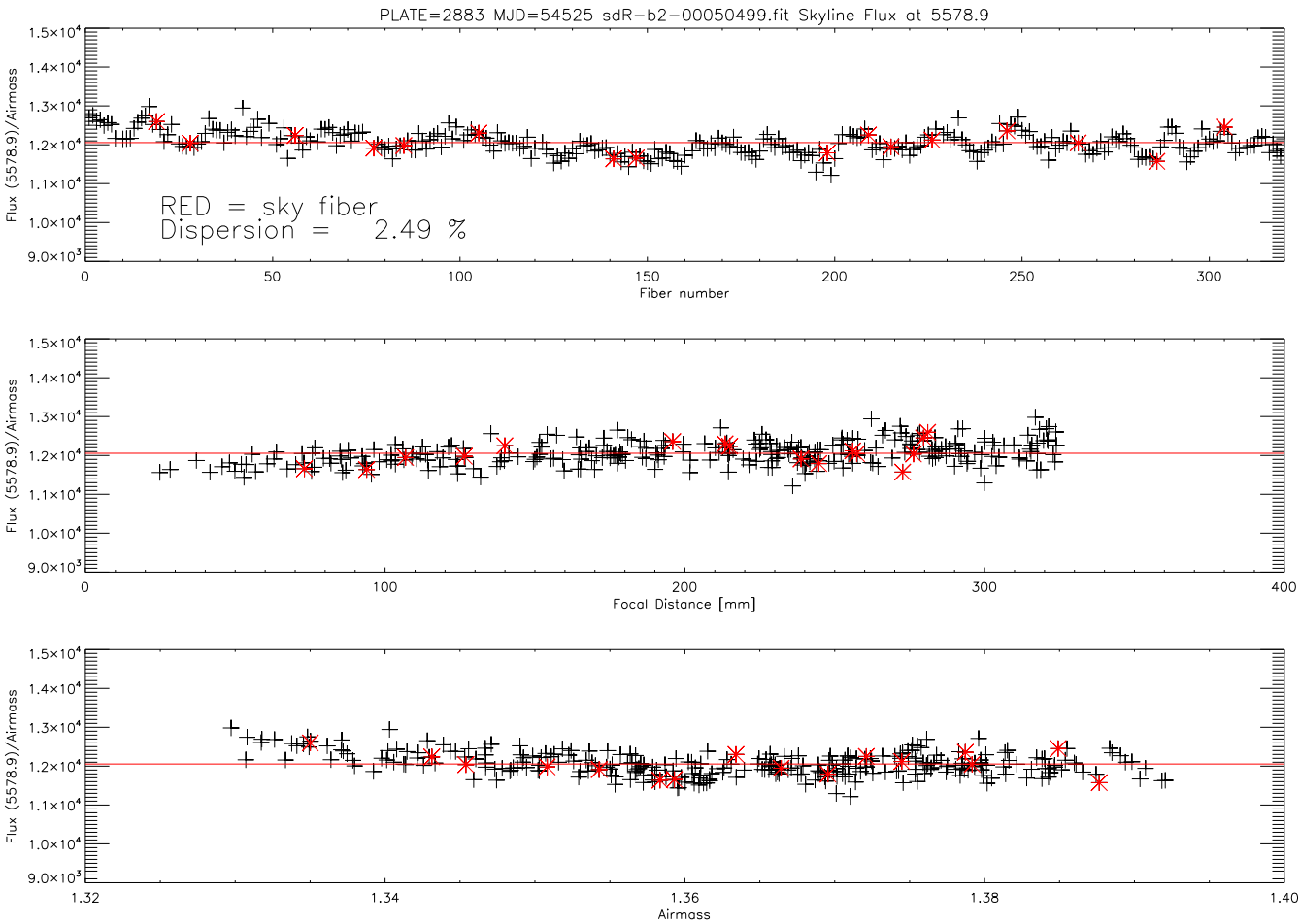

PLATE=2883 MJD=54525 sdR-b2-00050499.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

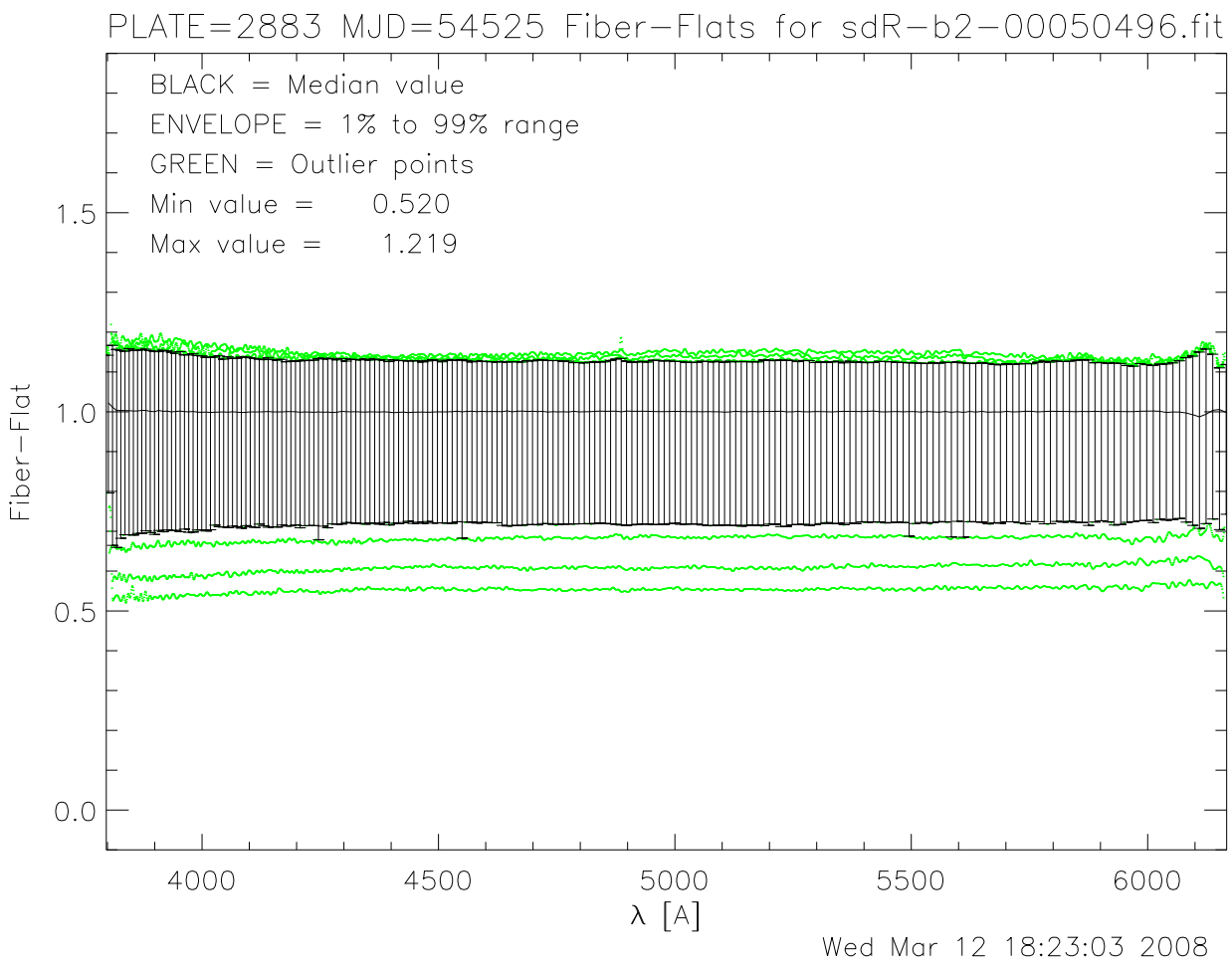

PLATE=2883 MJD=54525 sdR-b2-00050499.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

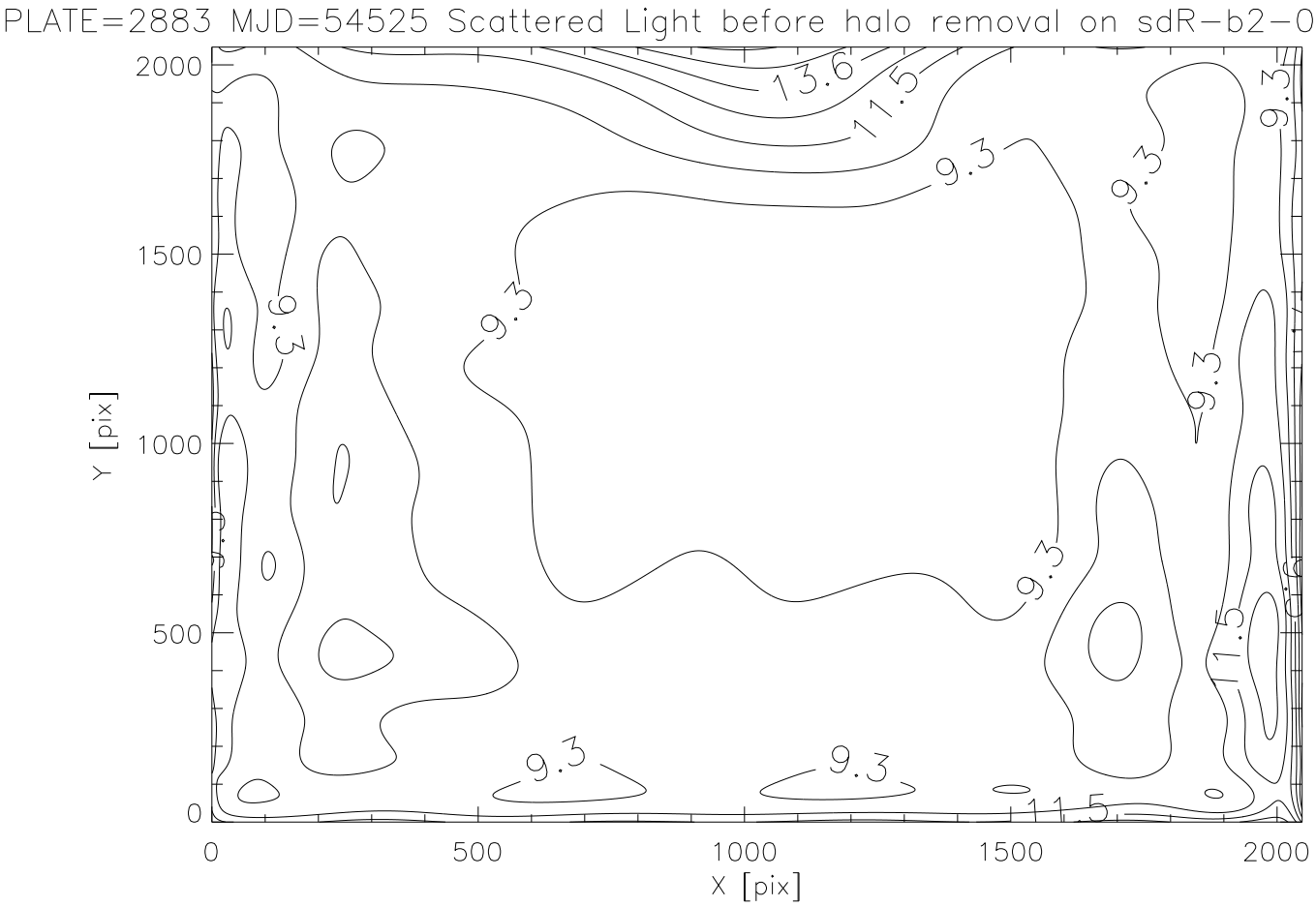

PLATE=2883 MJD=54525 sdR-b2-00050499.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

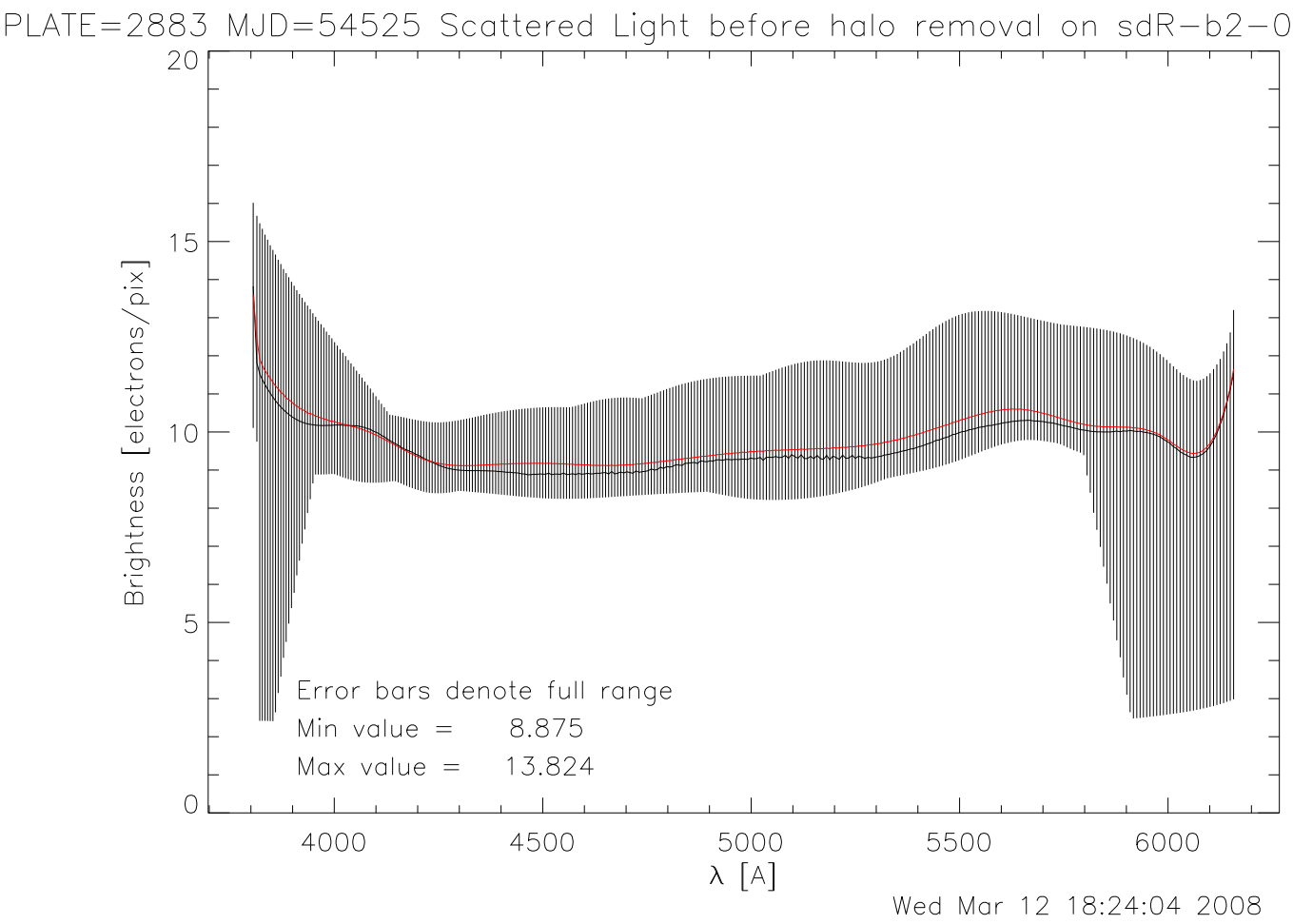

Number of sky fibers = 16
PLATE=2883 MJD=54525 sdR-b2-00050499.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

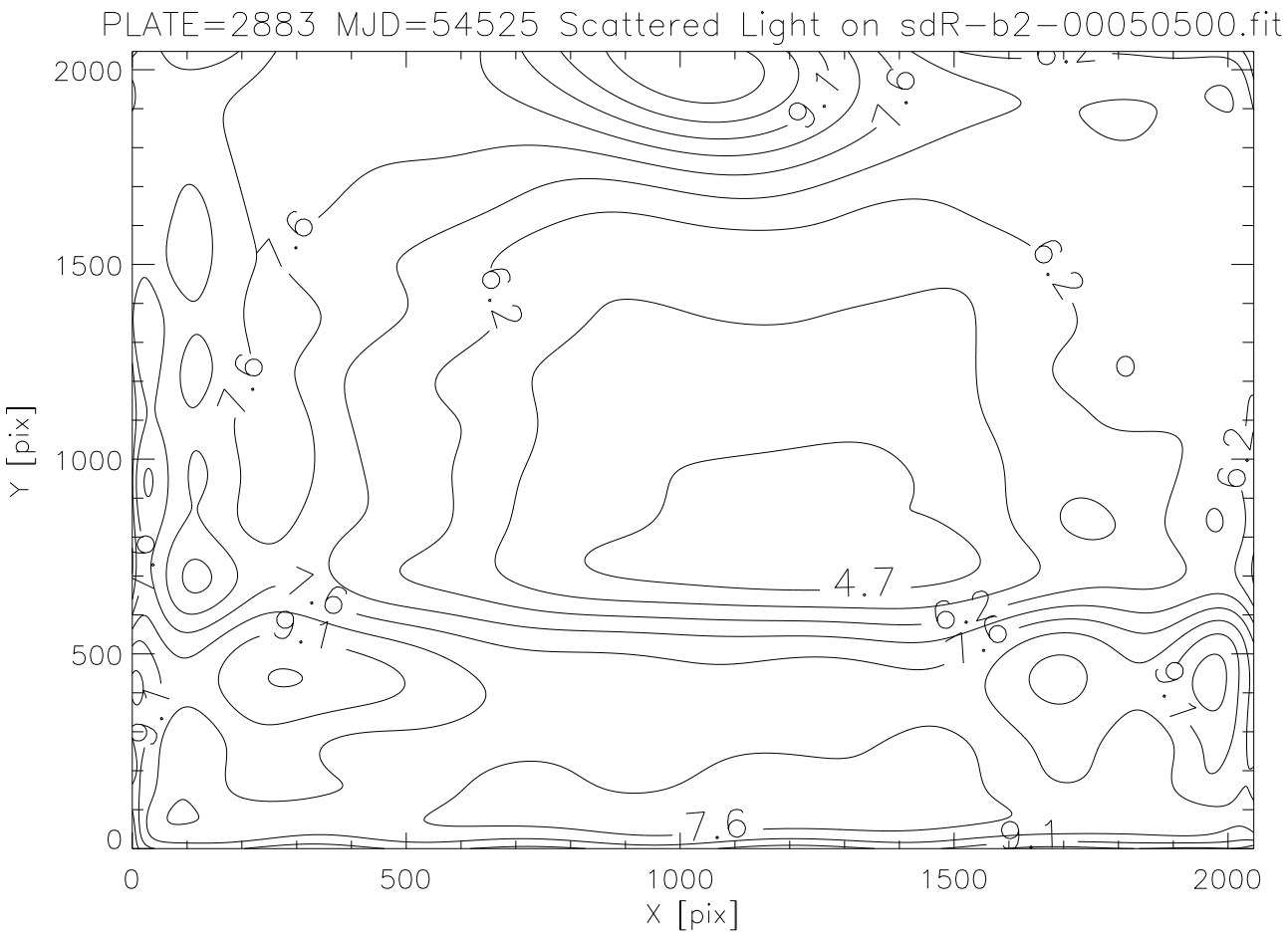

PLATE=2883 MJD=54525 sdR-b2-00050499.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.26 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

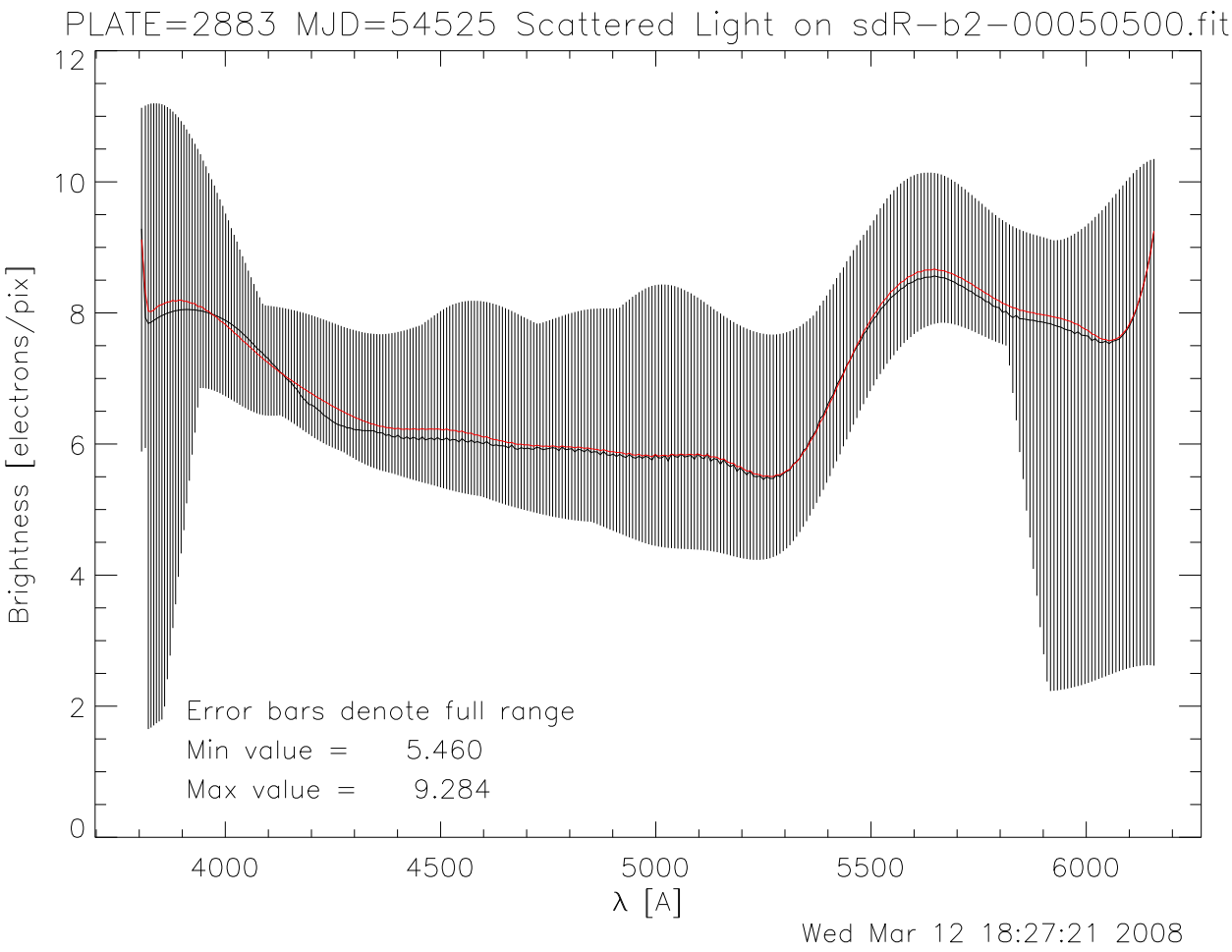

PLATE=2883 MJD=54525 sdR-b2-00050499.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Focal Distance [mm]
Airmass

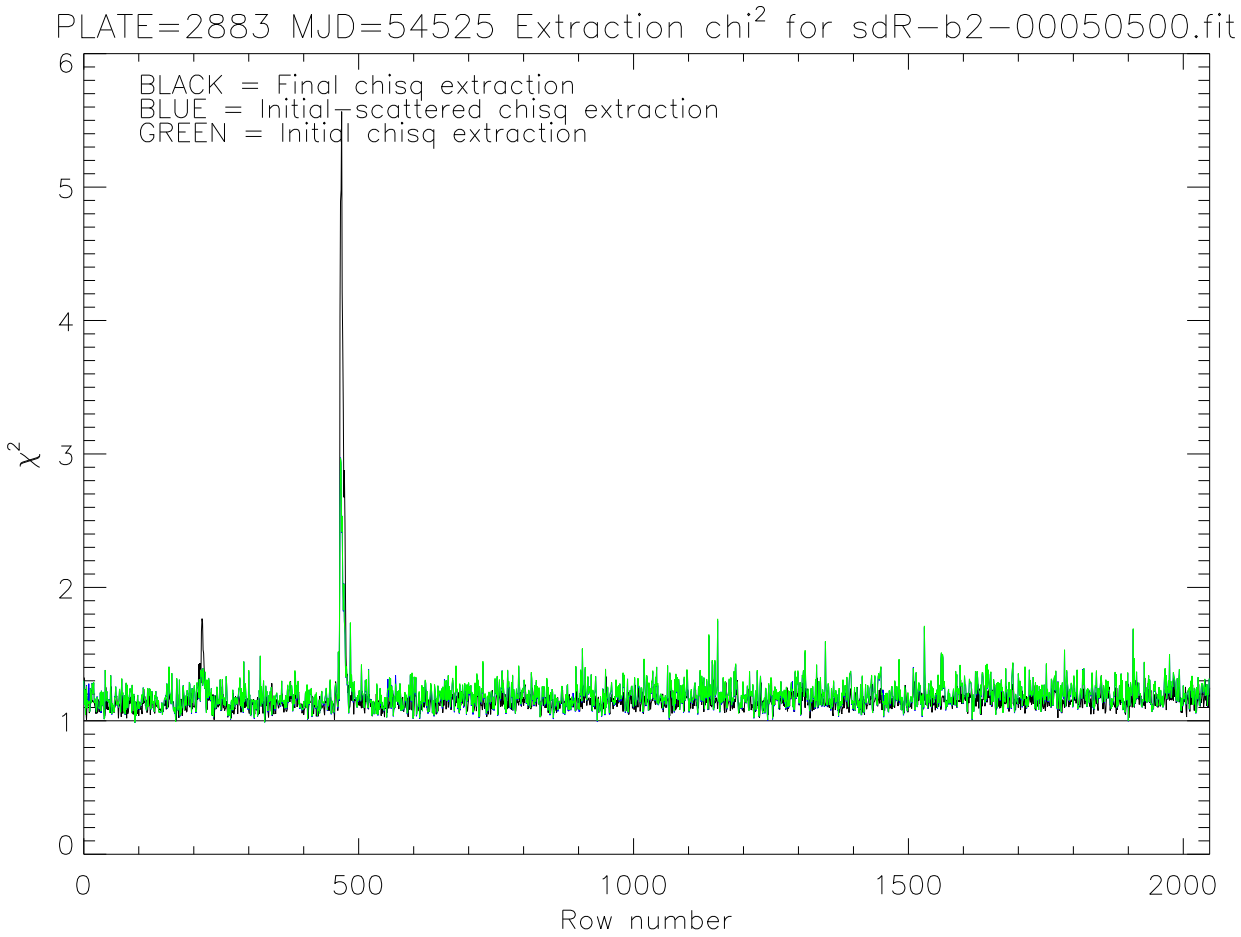

PLATE=2883 MJD=54525 Fiber-Flats for sdR-b2-00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.520
Max value = 1.219
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:23:03 2008

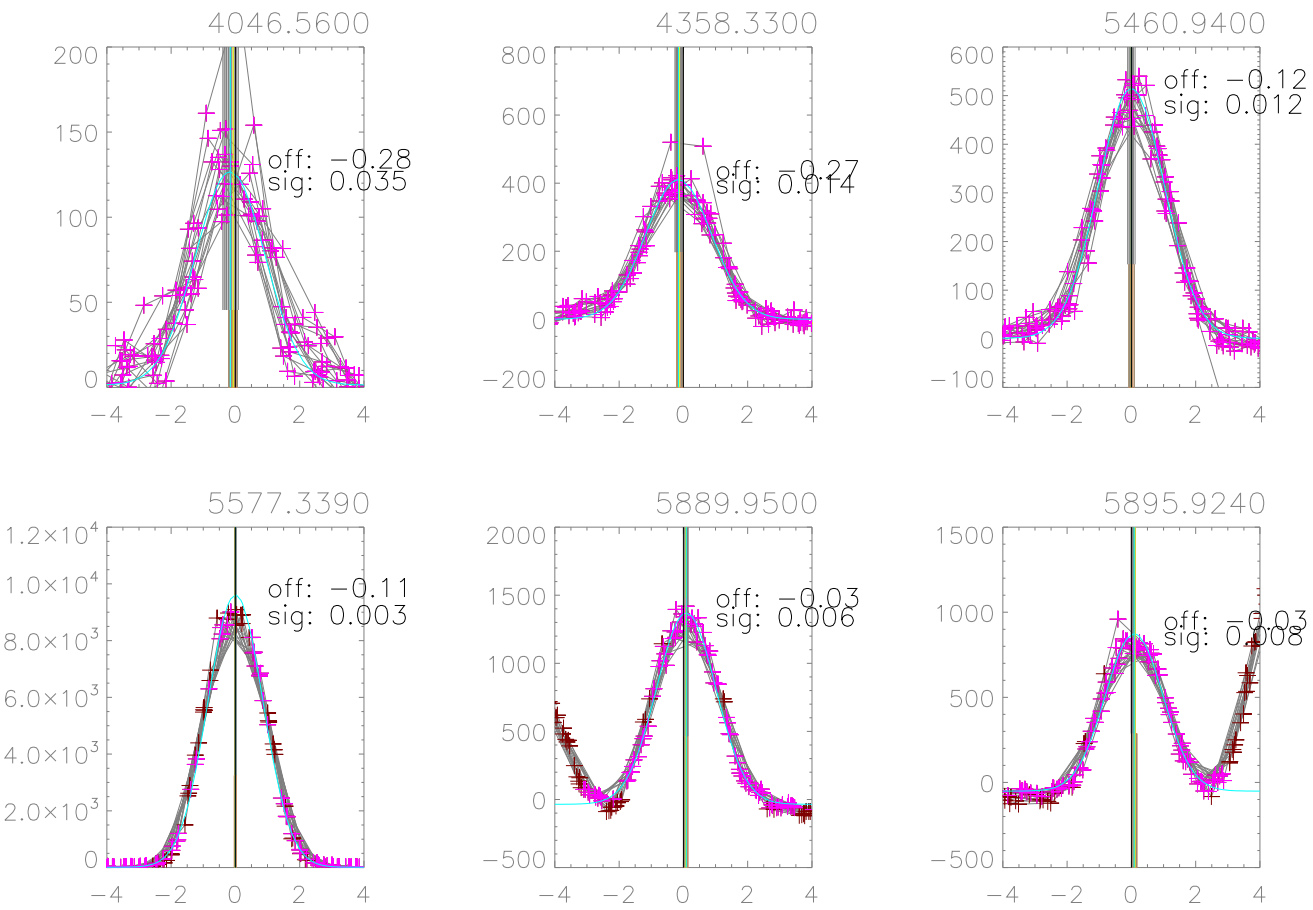

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b2-00050500.f
Y [pix]
X [pix]
0
500
1000
1500
2000
13.6
11.5
9.3
0

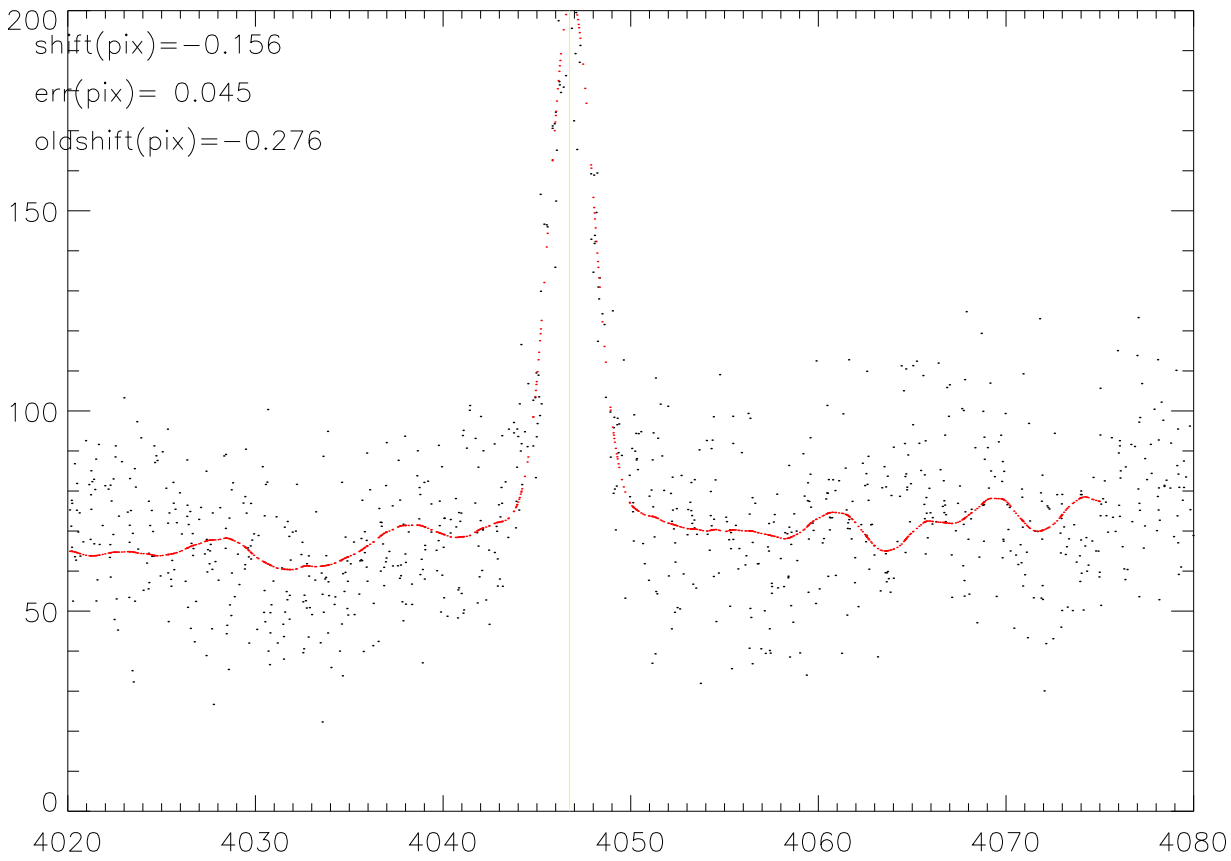

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-b2-00050500.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 8.875
Max value = 13.824
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:24:04 2008

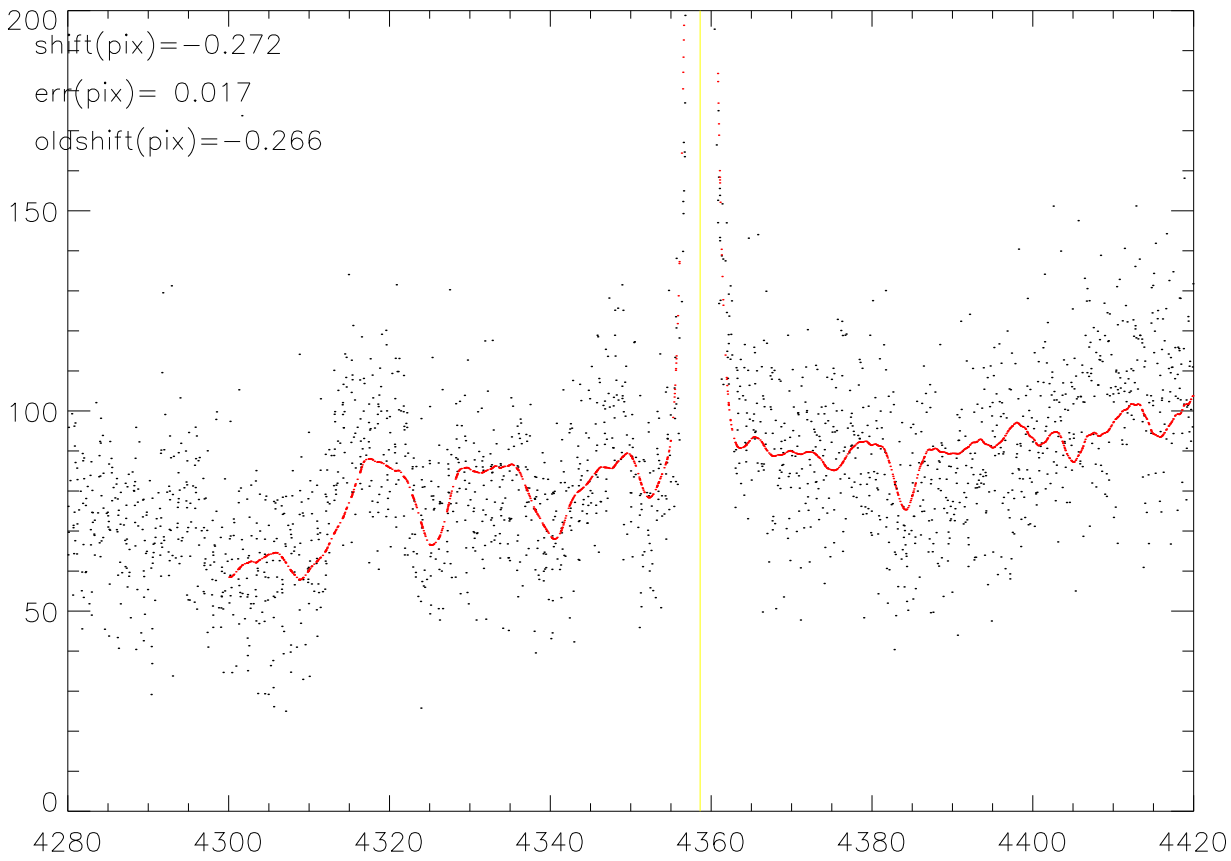

PLATE=2883 MJD=54525 Scattered Light on sdR-b2-00050500.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.2
7.6
9.1

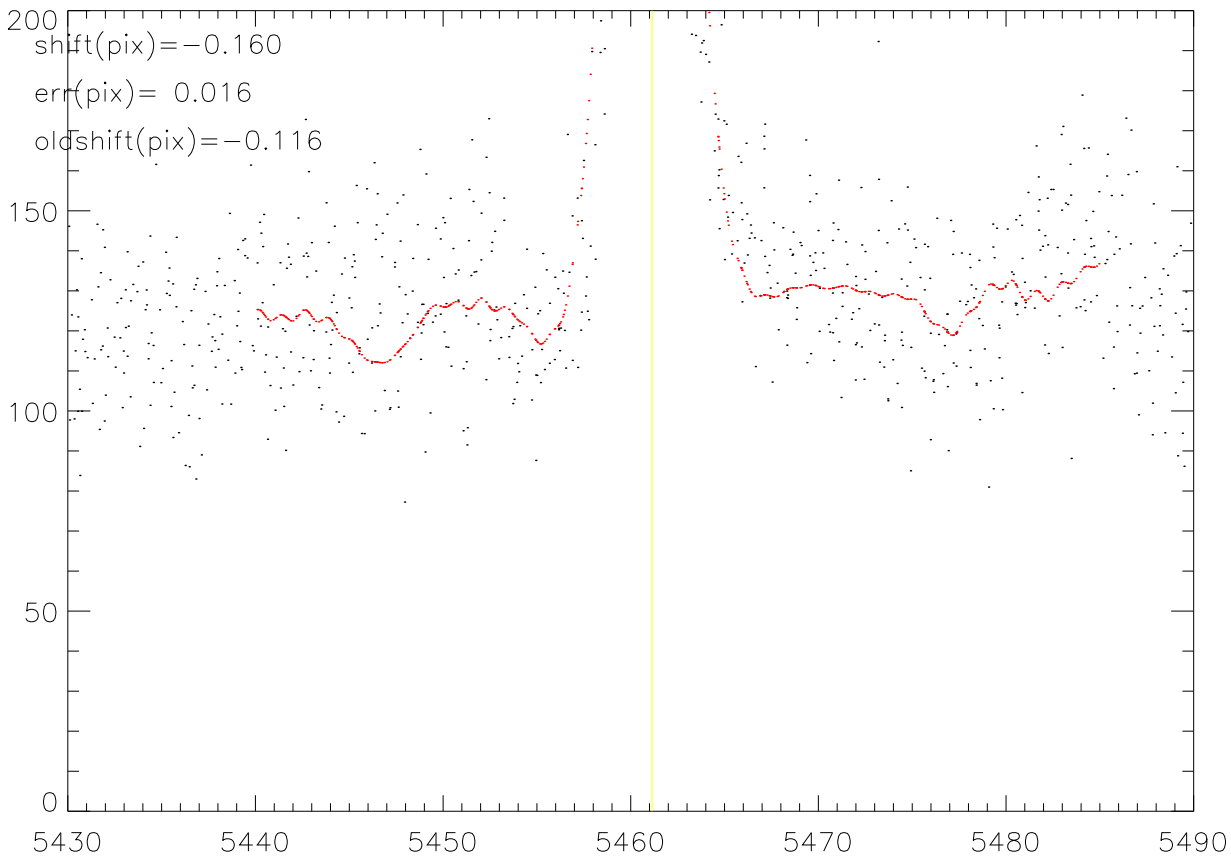

PLATE=2883 MJD=54525 Scattered Light on sdR-b2-00050500.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.460
Max value = 9.284
Wed Mar 12 18:27:21 2008

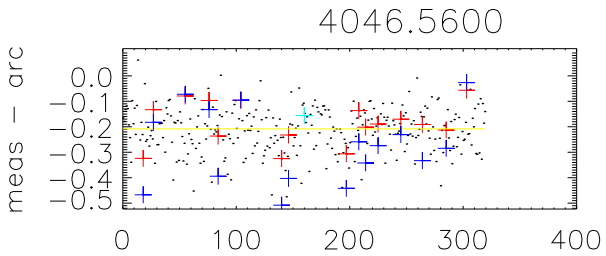

PLATE=2883 MJD=54525 Extraction chi^2 for sdR-b2-00050500.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

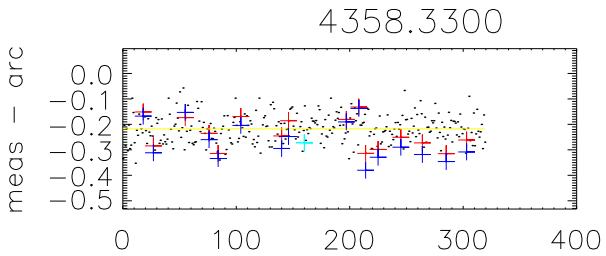

4046.5600
off: −0.28
sig: 0.035
4358.3300
off: −0.27
sig: 0.014
5460.9400
off: −0.12
sig: 0.012
5577.3390
off: −0.11
sig: 0.003
5889.9500
off: −0.03
sig: 0.006
5895.9240
off: −0.03
sig: 0.008

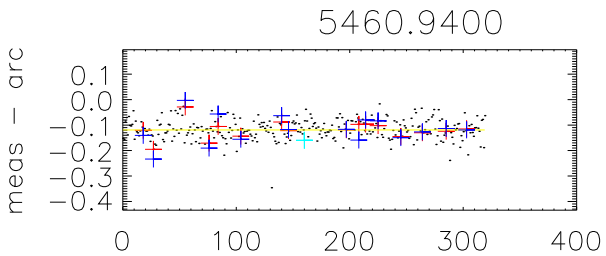

shift(pix)=−0.156
err(pix)= 0.045
oldshift(pix)=−0.276
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

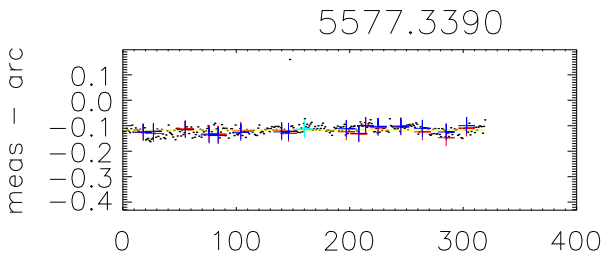

shift(pix)=−0.272
err(pix)= 0.017
oldshift(pix)=−0.266
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

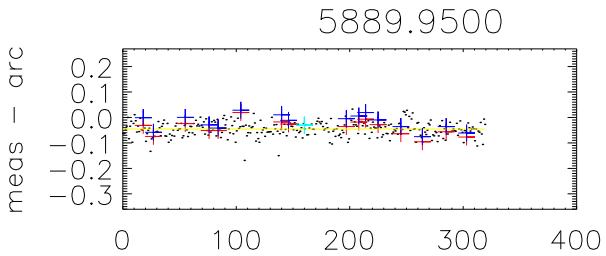

shift(pix)=−0.160
err(pix)= 0.016
oldshift(pix)=−0.116
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

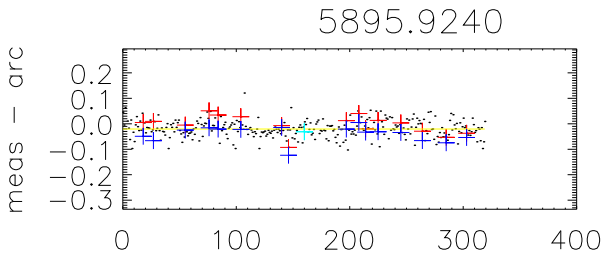

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

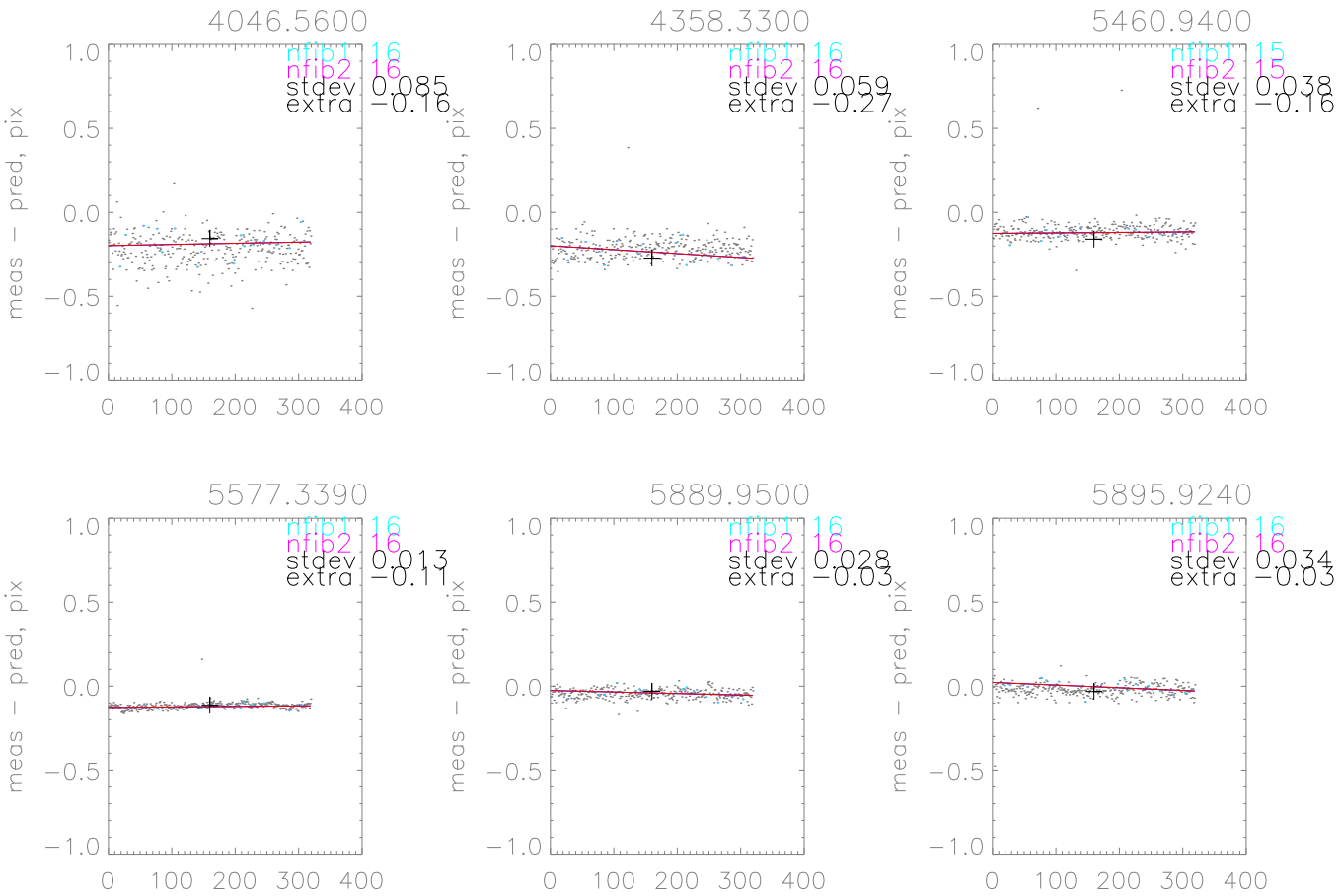

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

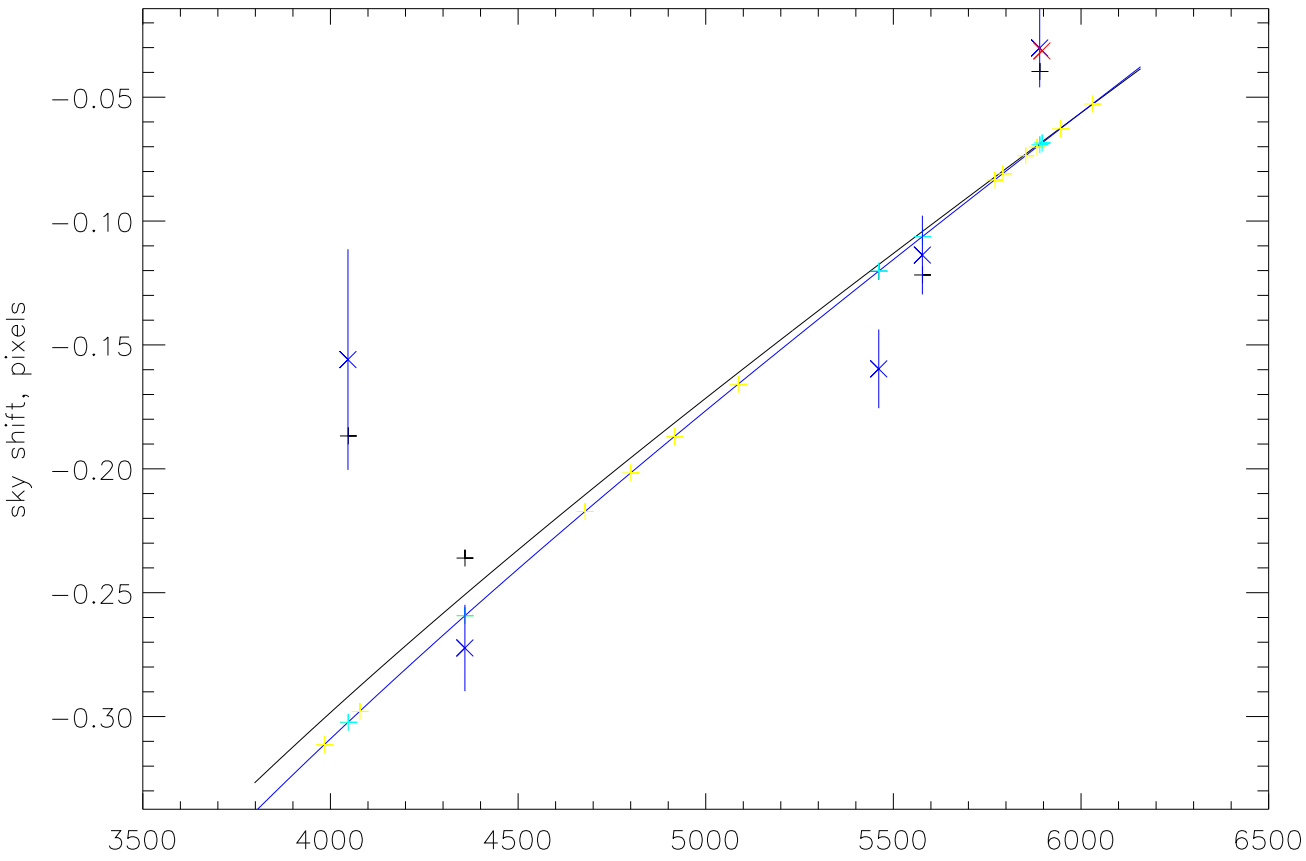

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

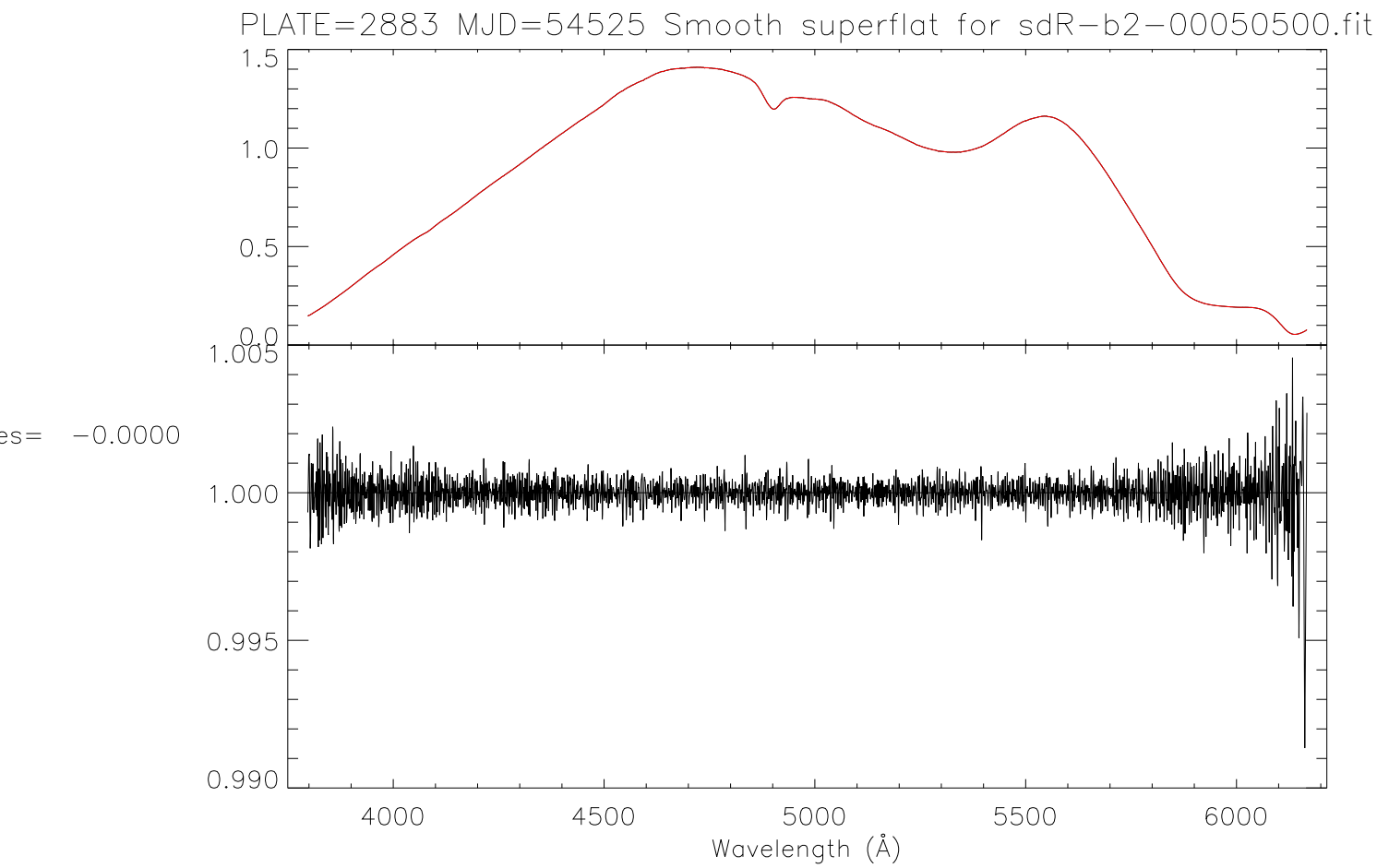

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

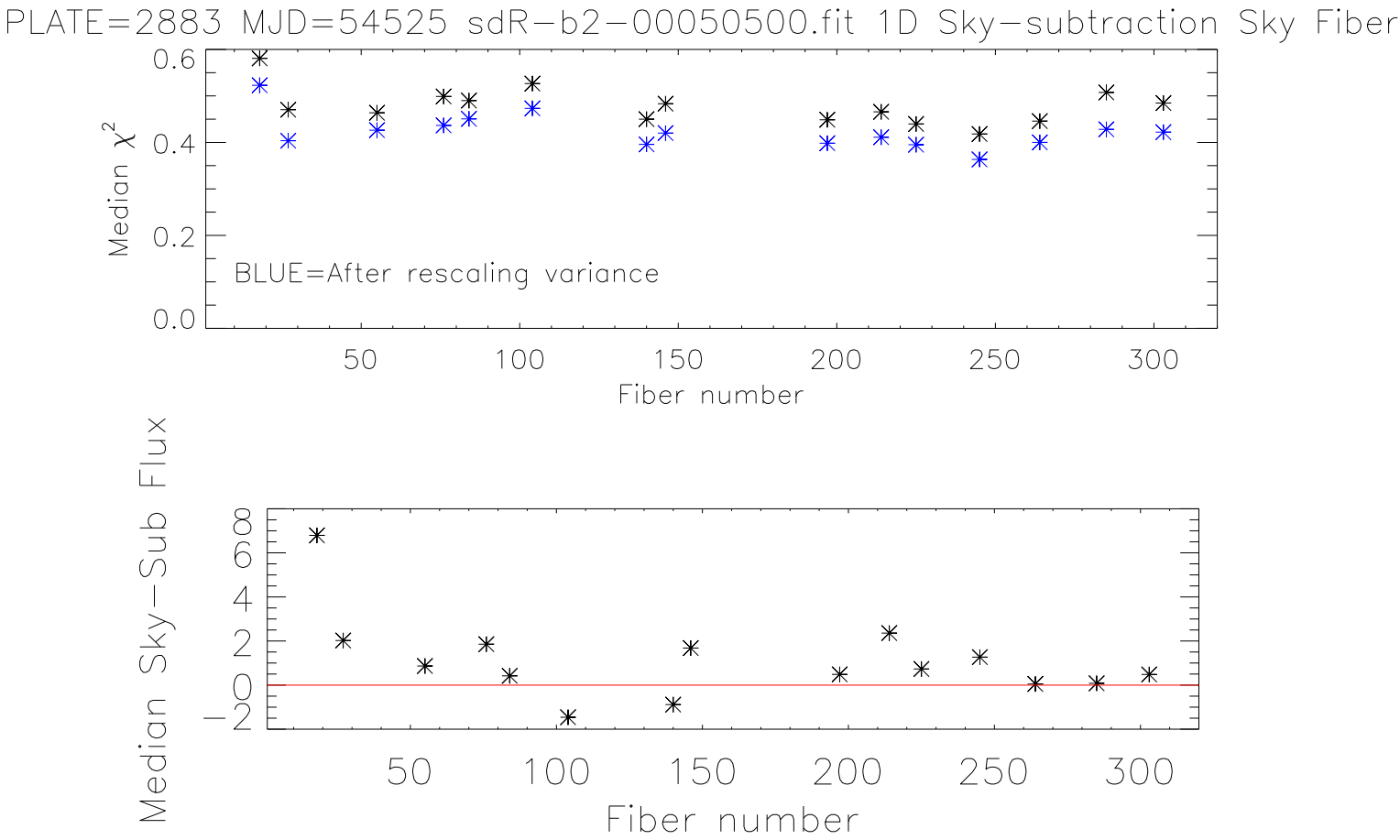

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

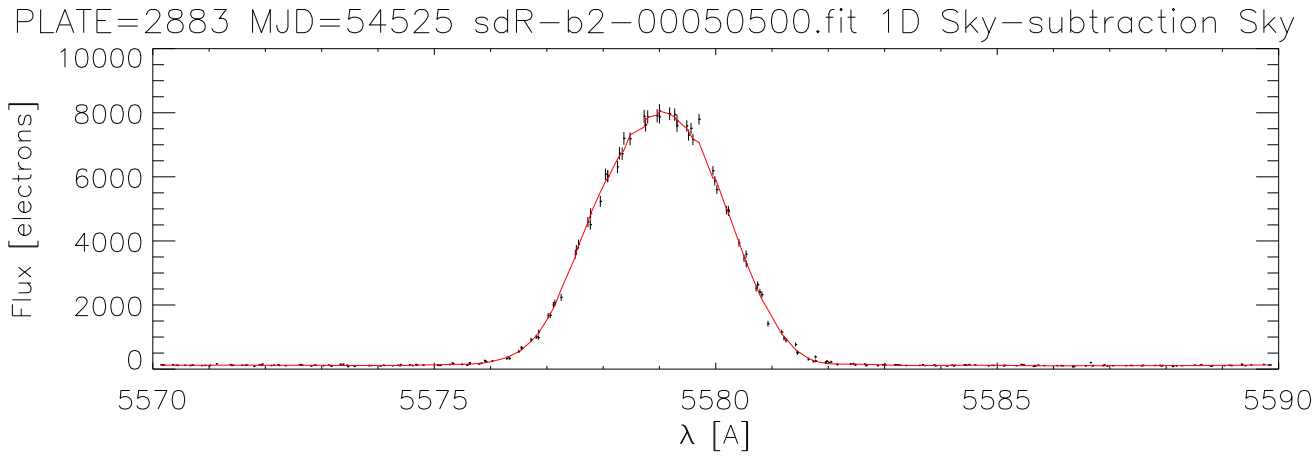

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

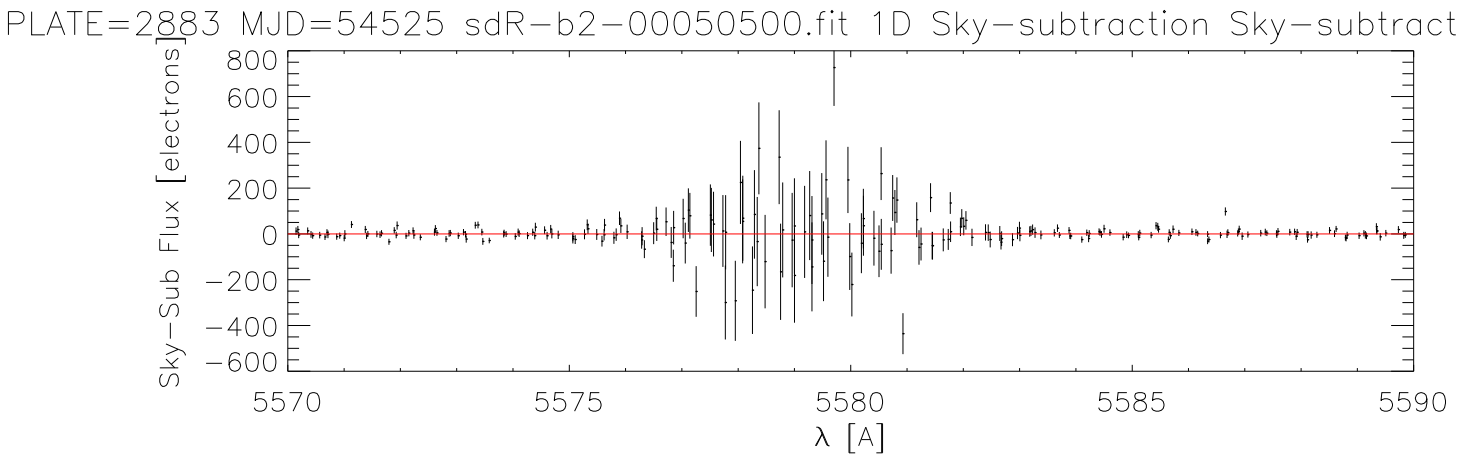

4046.5600
nfib1 16
nfib2 16
stdev 0.085
extra −0.16
4358.3300
nfib1 16
nfib2 16
stdev 0.059
extra −0.27
5460.9400
nfib1 15
nfib2 15
stdev 0.038
extra −0.16
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra −0.11
5889.9500
nfib1 16
nfib2 16
stdev 0.028
extra −0.03
5895.9240
nfib1 16
nfib2 16
stdev 0.034
extra −0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

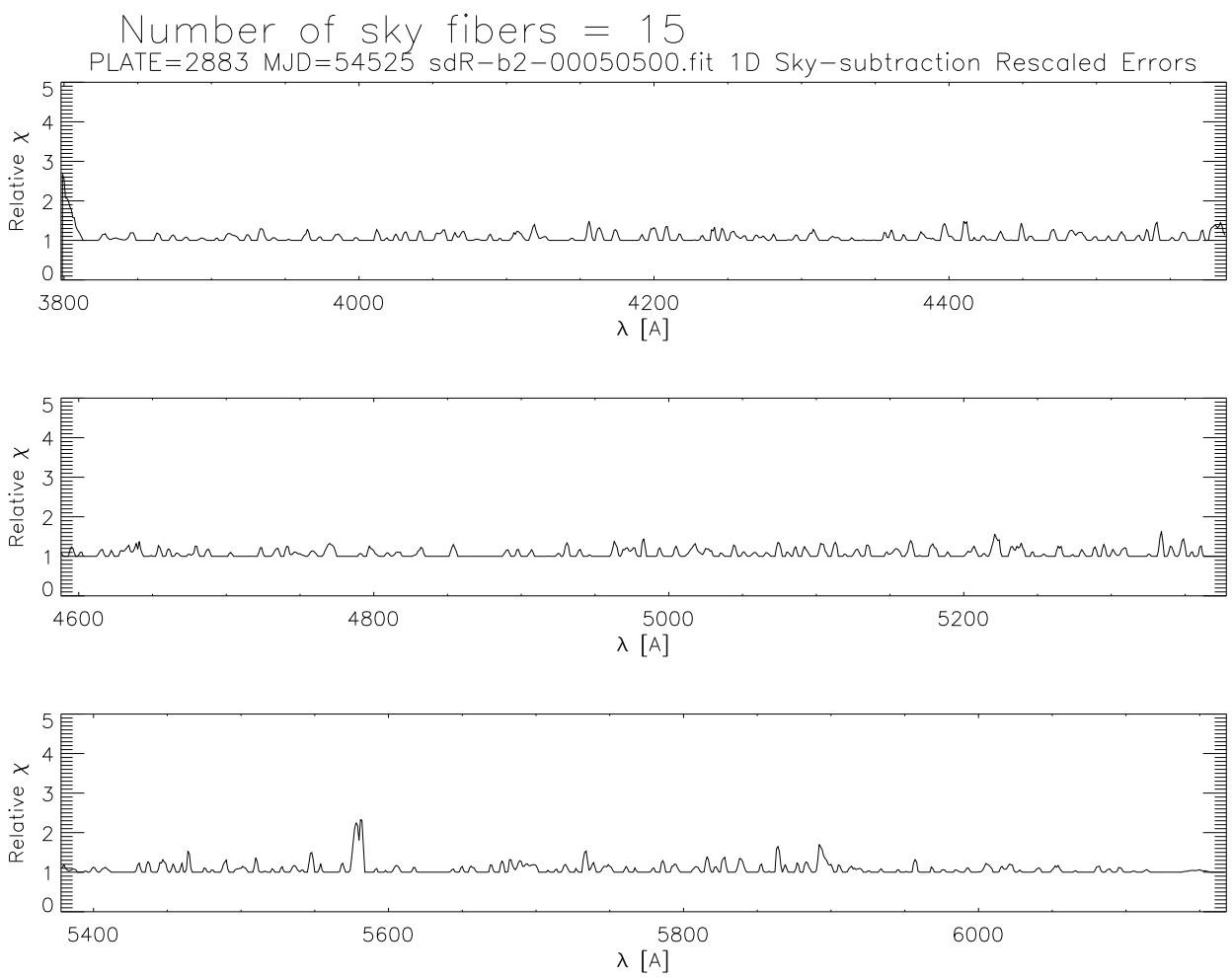

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

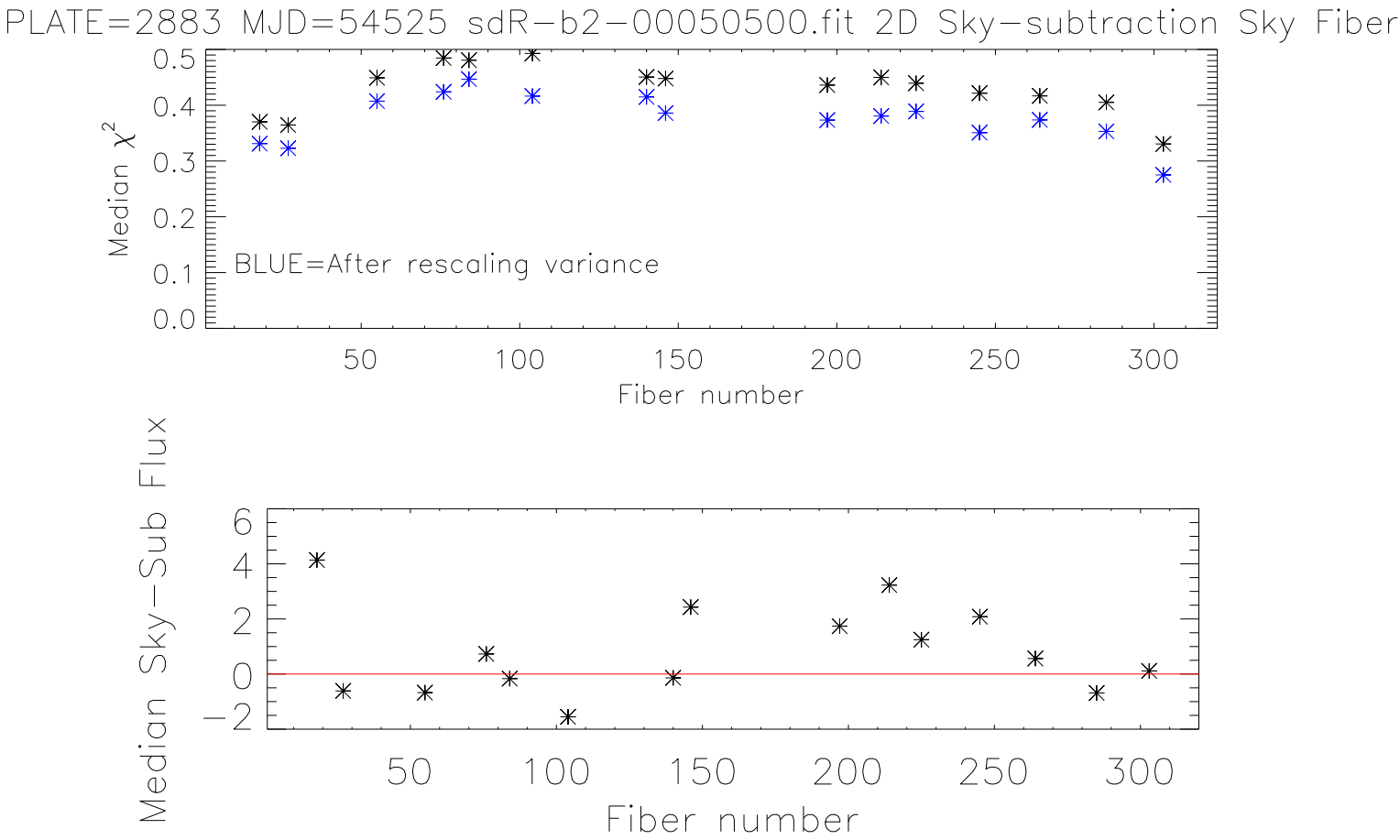

PLATE=2883 MJD=54525 Smooth superflat for sdR-b2-00050500.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

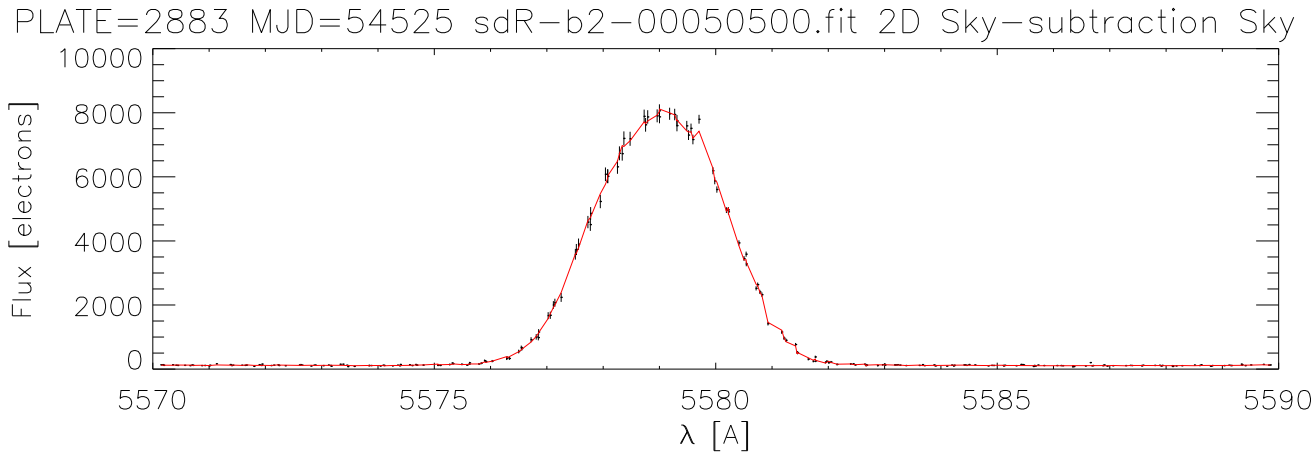

PLATE=2883 MJD=54525 sdR-b2-00050500.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

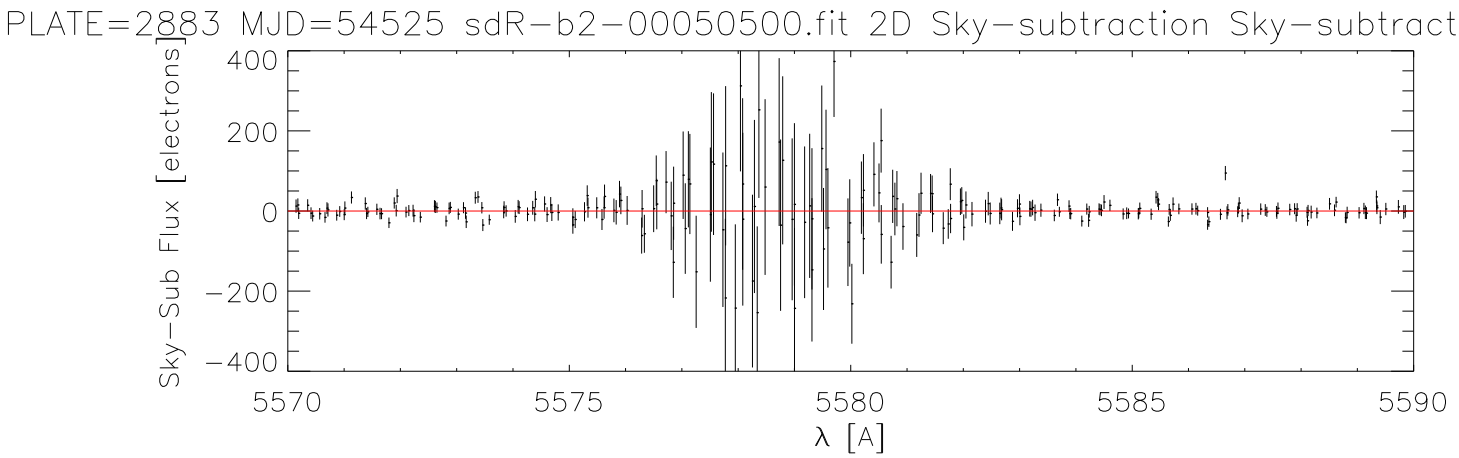

PLATE=2883 MJD=54525 sdR-b2-00050500.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

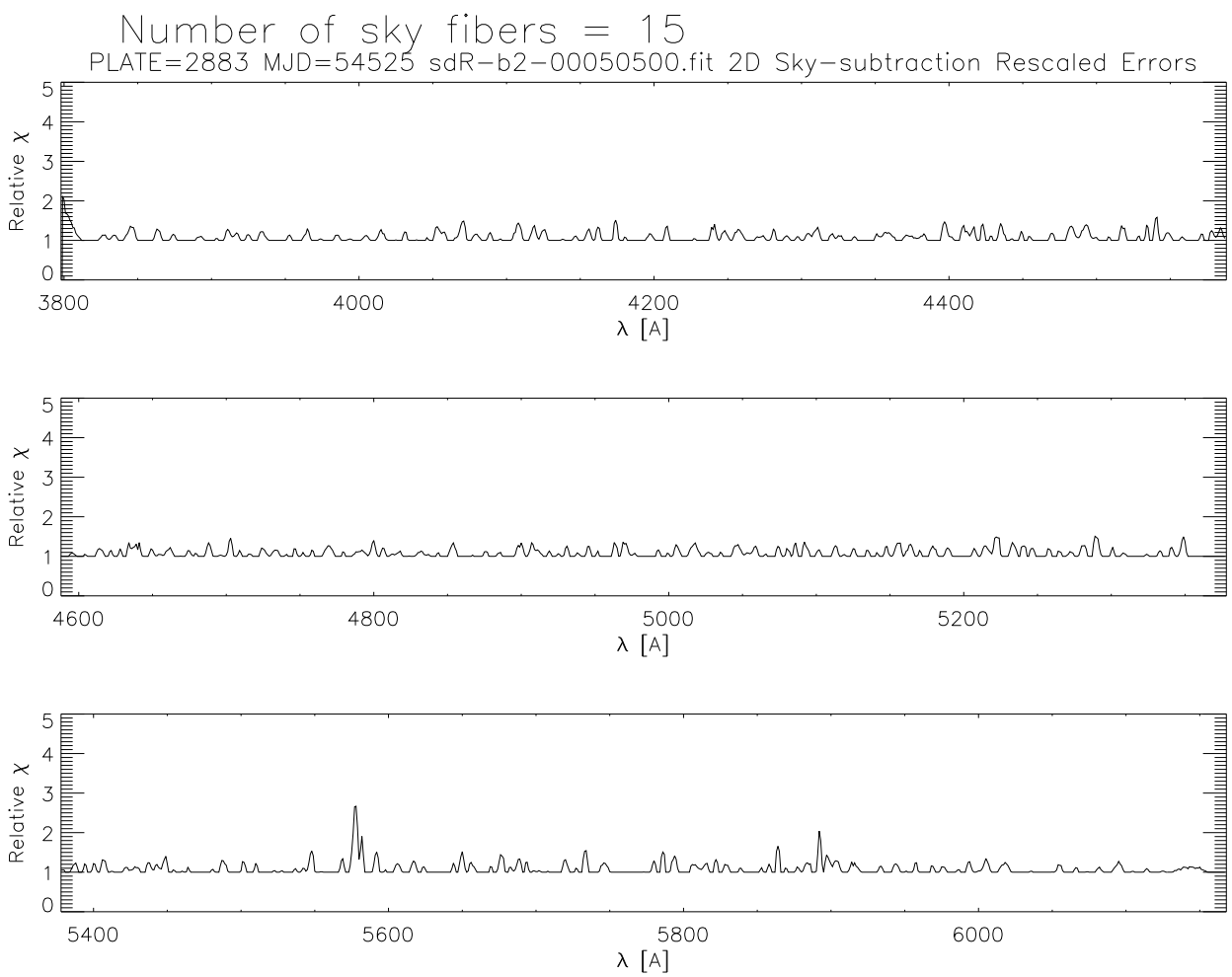

PLATE=2883 MJD=54525 sdR-b2-00050500.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

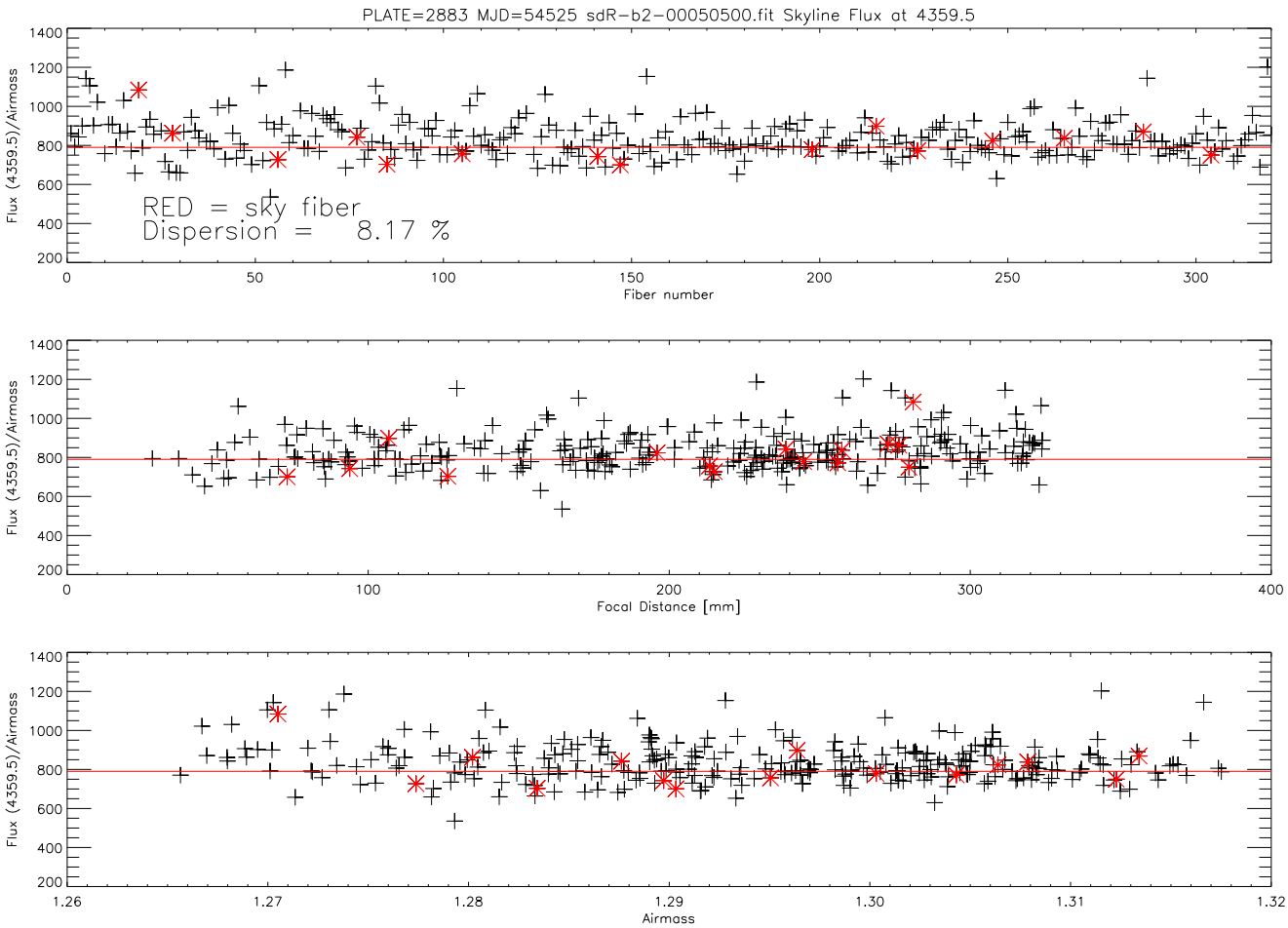

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-b2-00050500.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

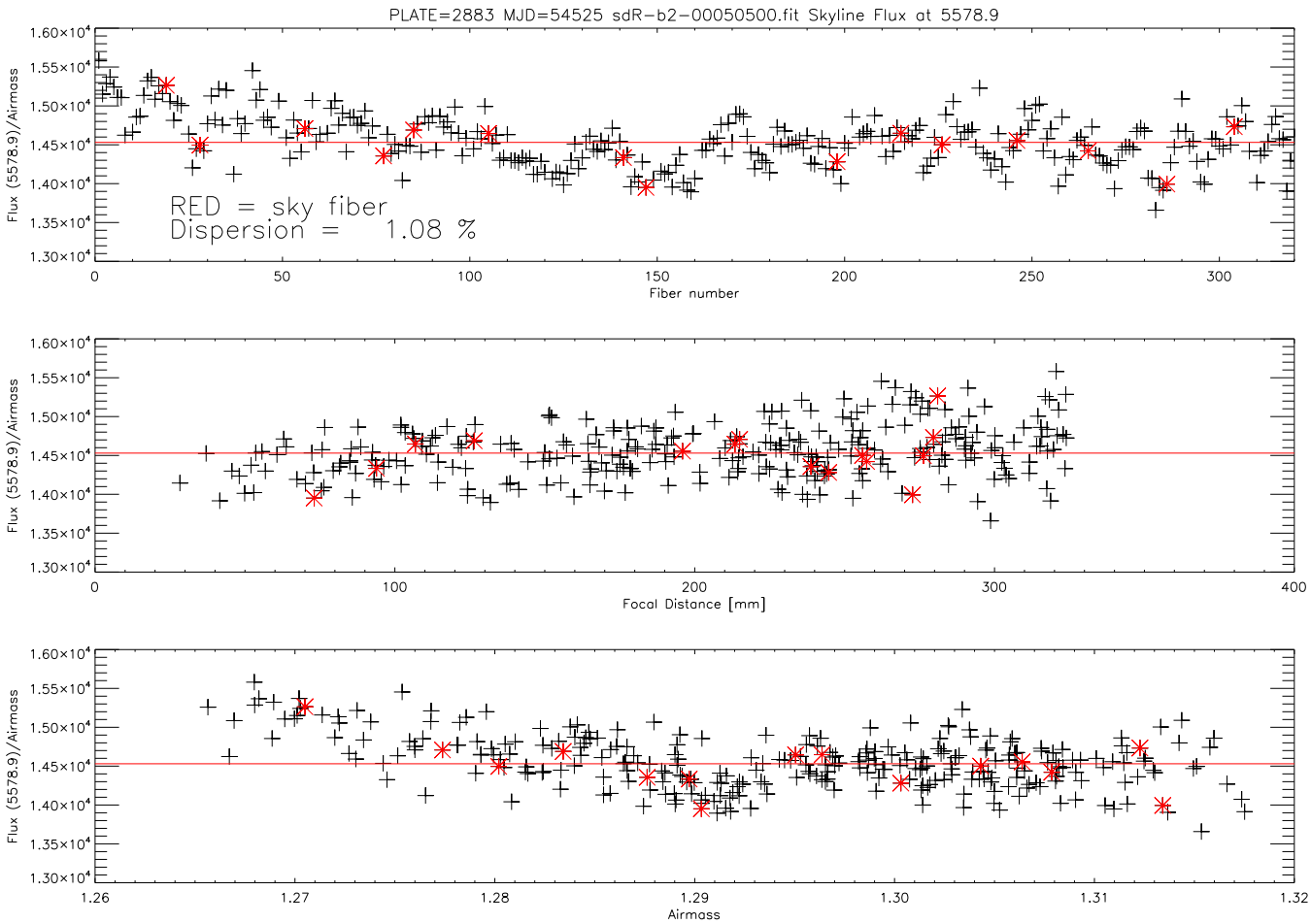

PLATE=2883 MJD=54525 sdR-b2-00050500.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−2
0
2
4
6
50
100
150
200
250
300
Fiber number

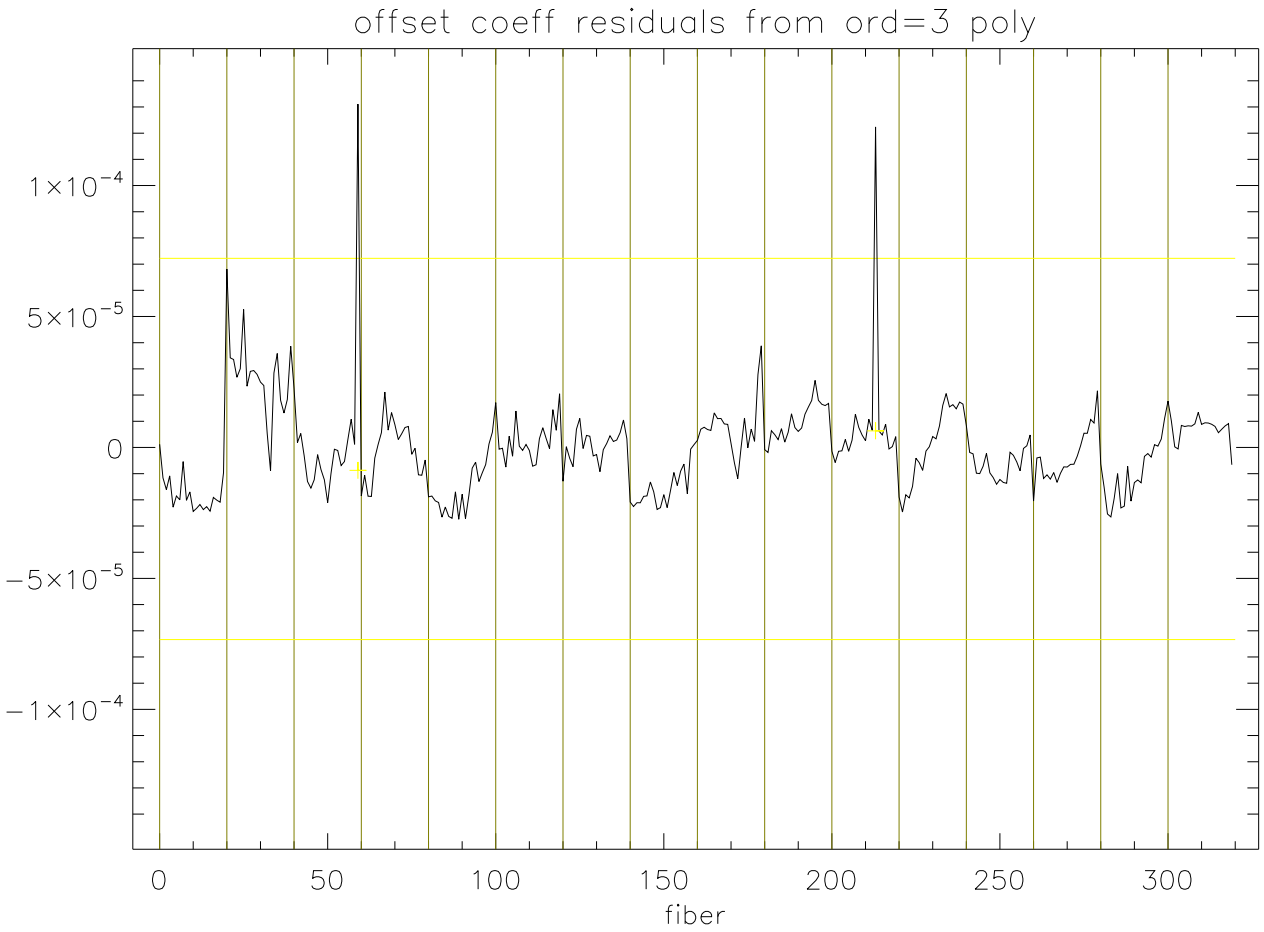

PLATE=2883 MJD=54525 sdR-b2-00050500.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

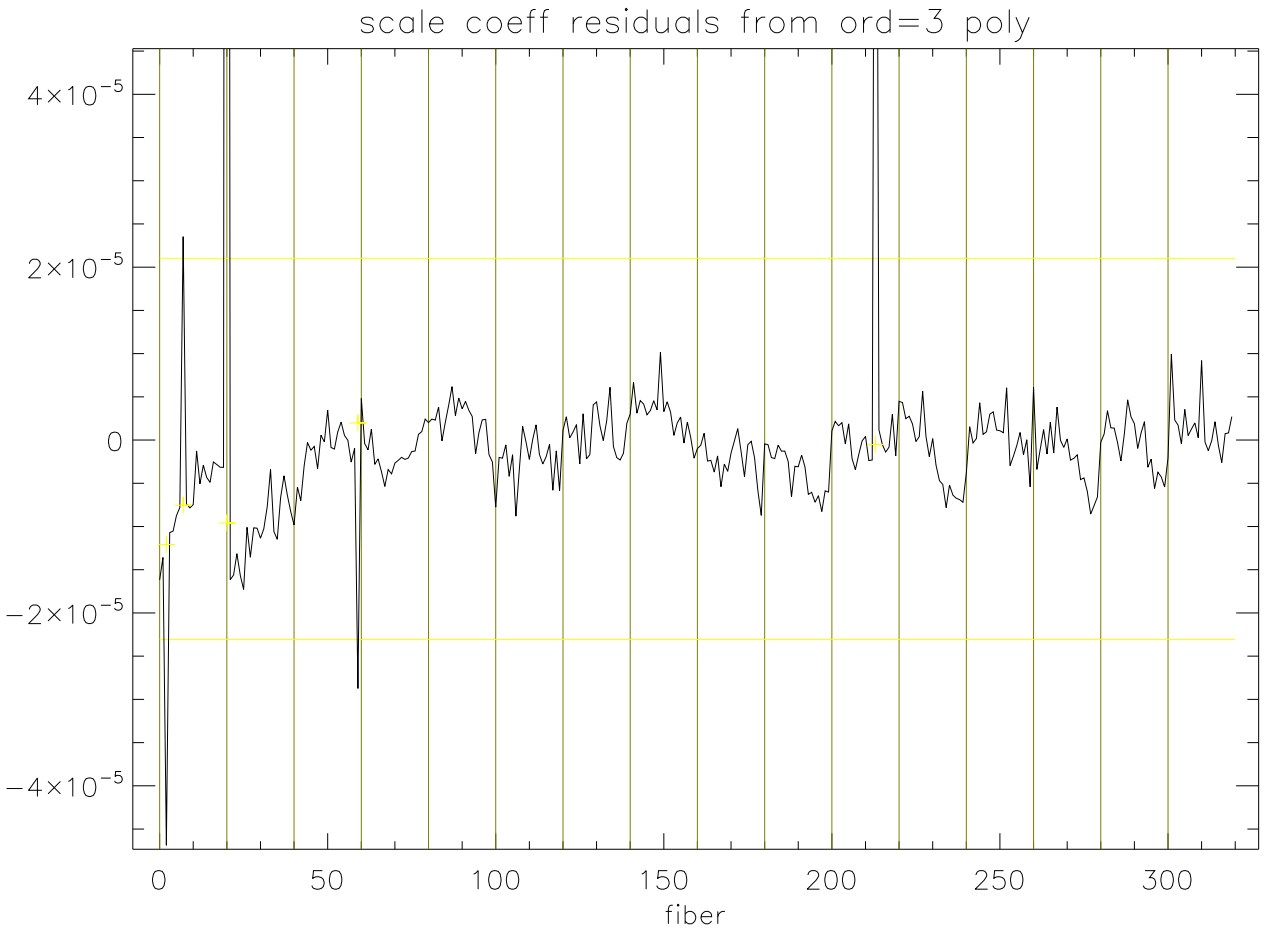

PLATE=2883 MJD=54525 sdR-b2-00050500.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

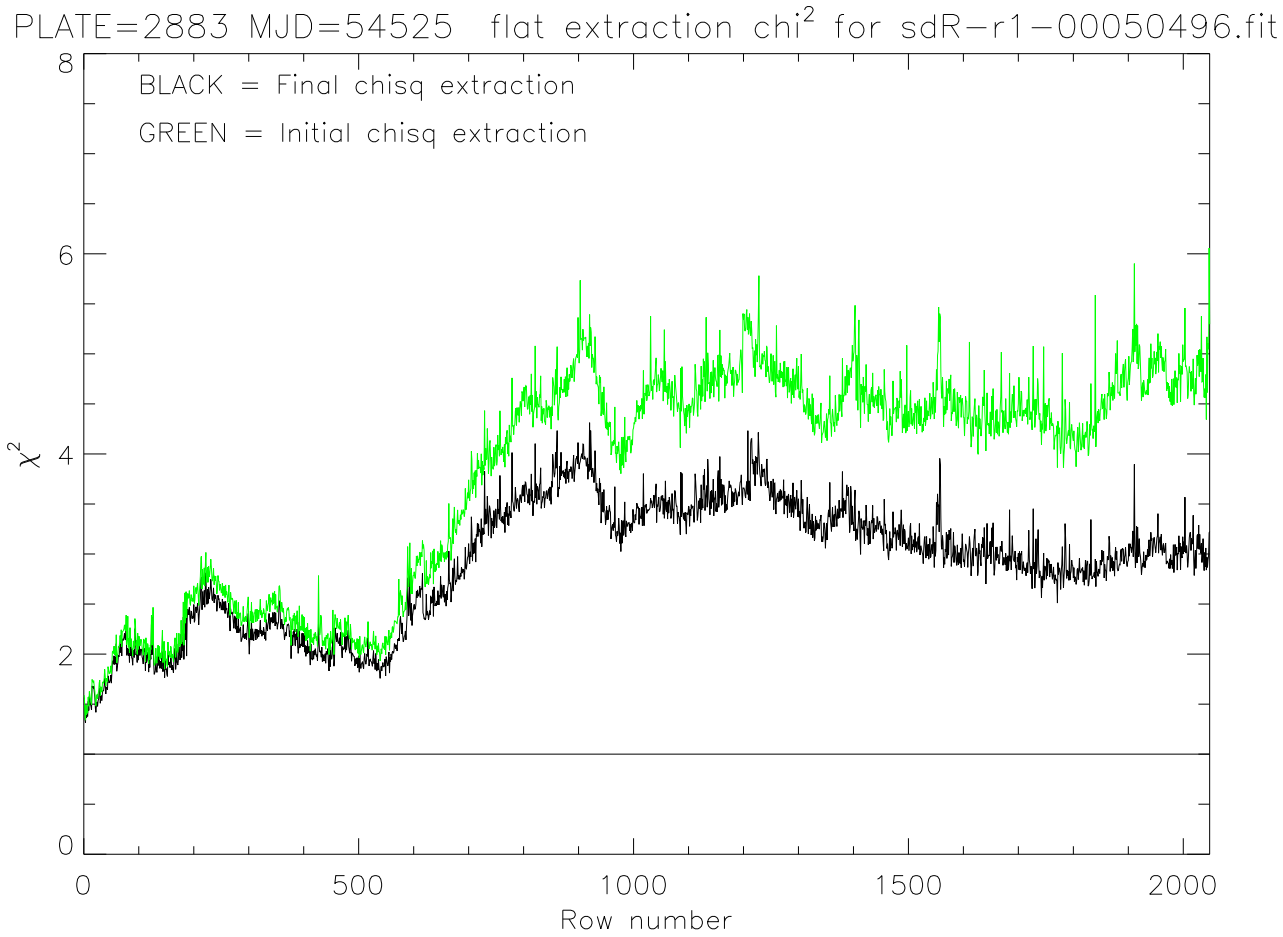

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-b2-00050500.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

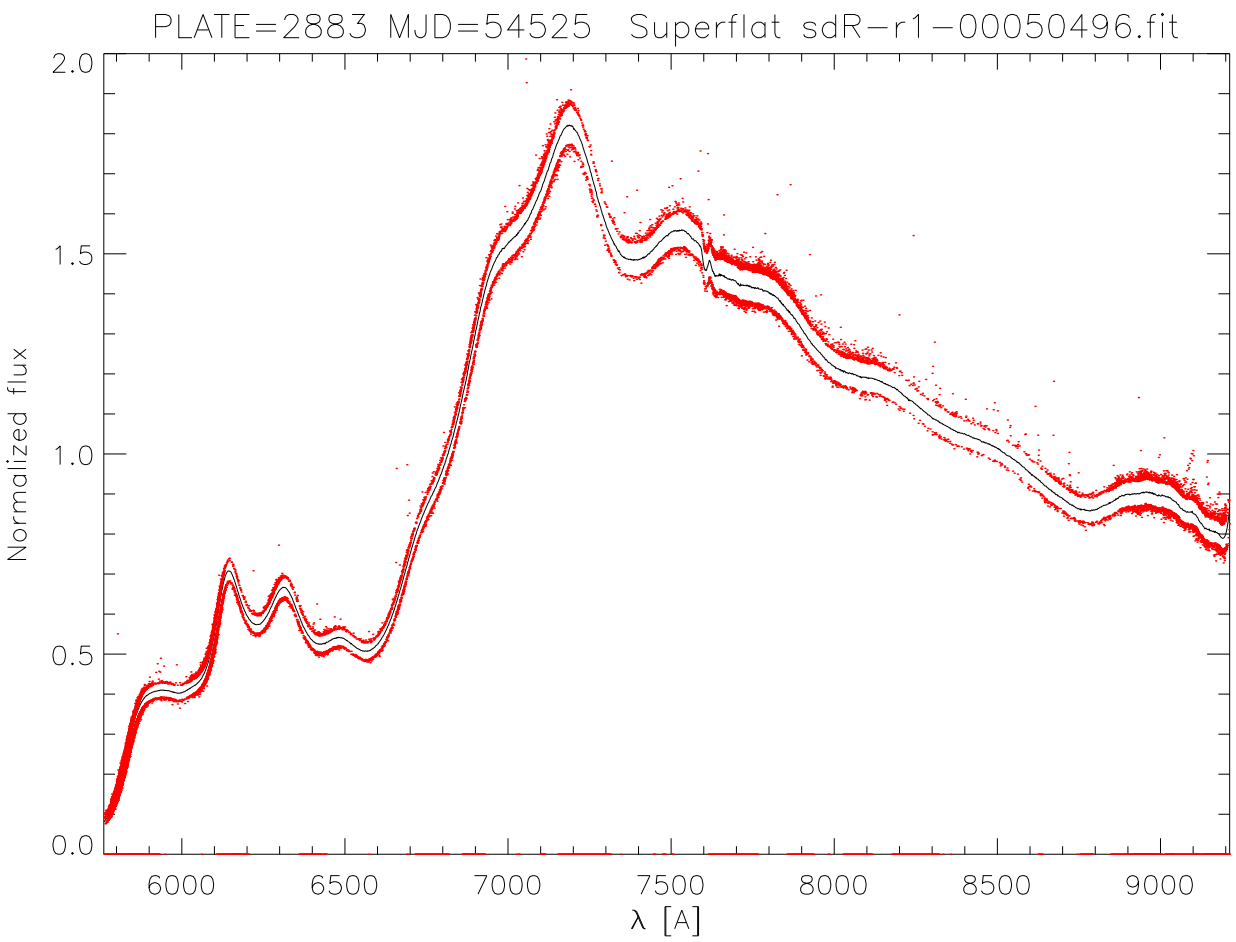

PLATE=2883 MJD=54525 sdR-b2-00050500.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.17 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

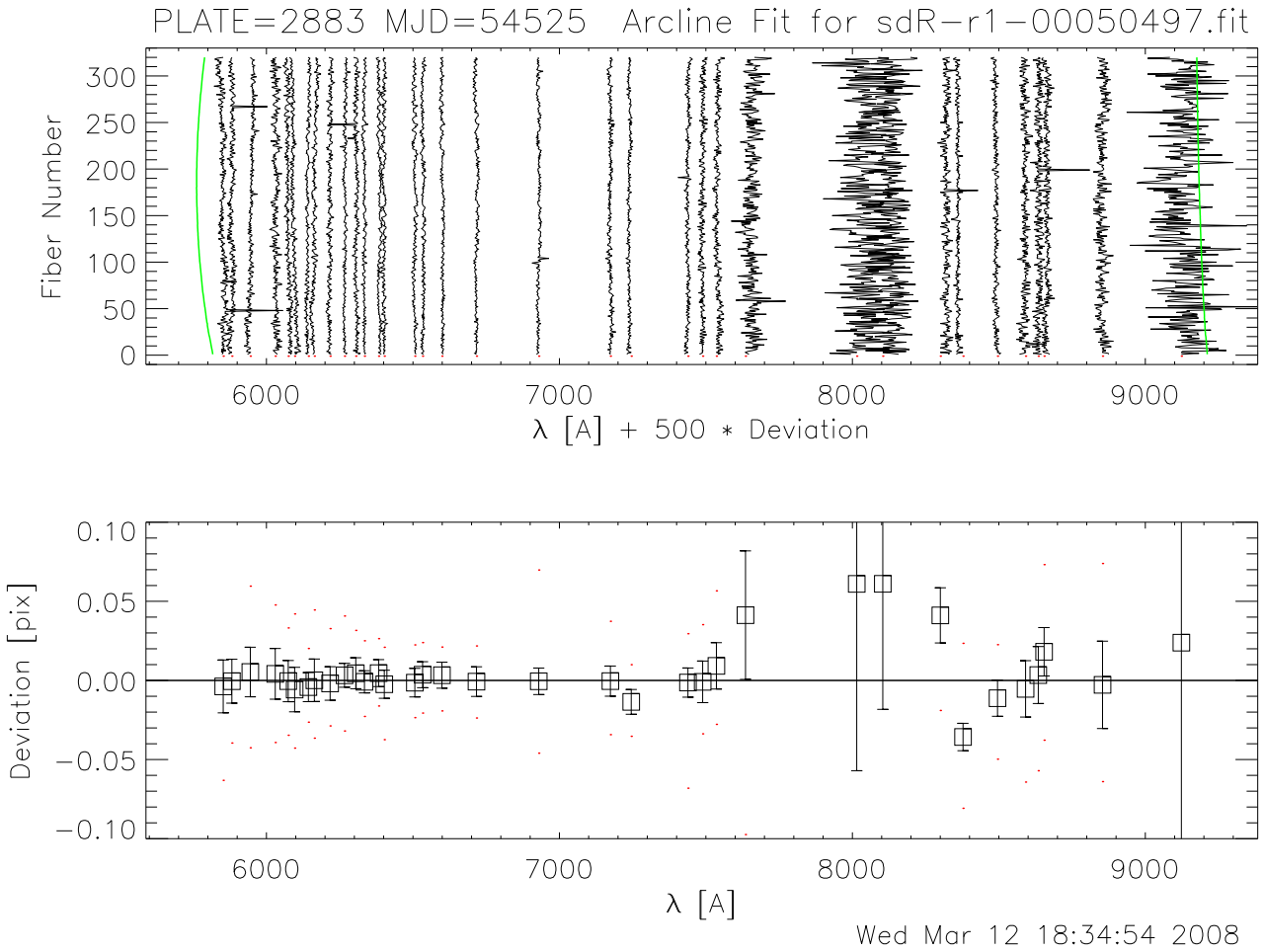

PLATE=2883 MJD=54525 sdR-b2-00050500.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.08 %
Fiber number
Focal Distance [mm]
Airmass

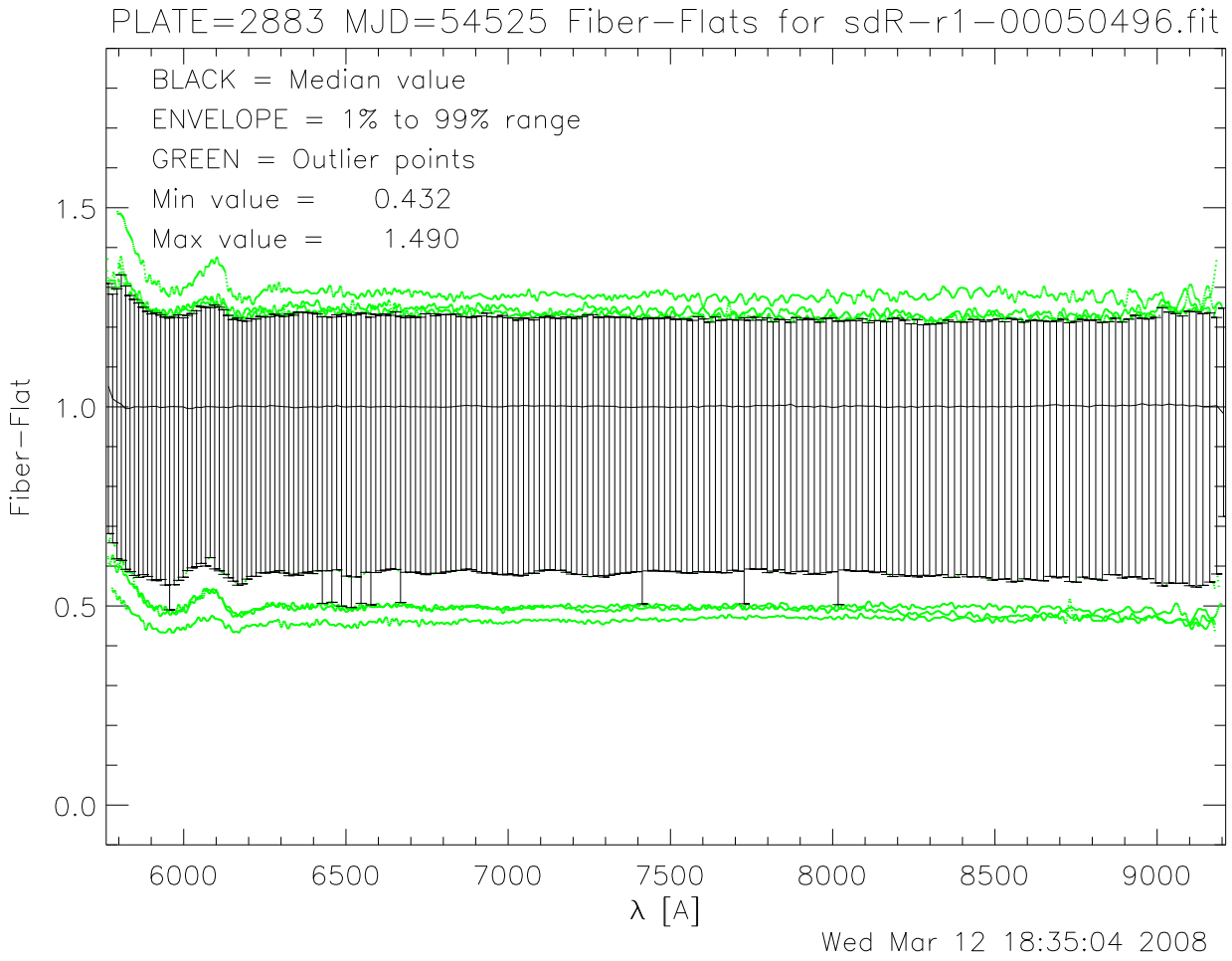

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

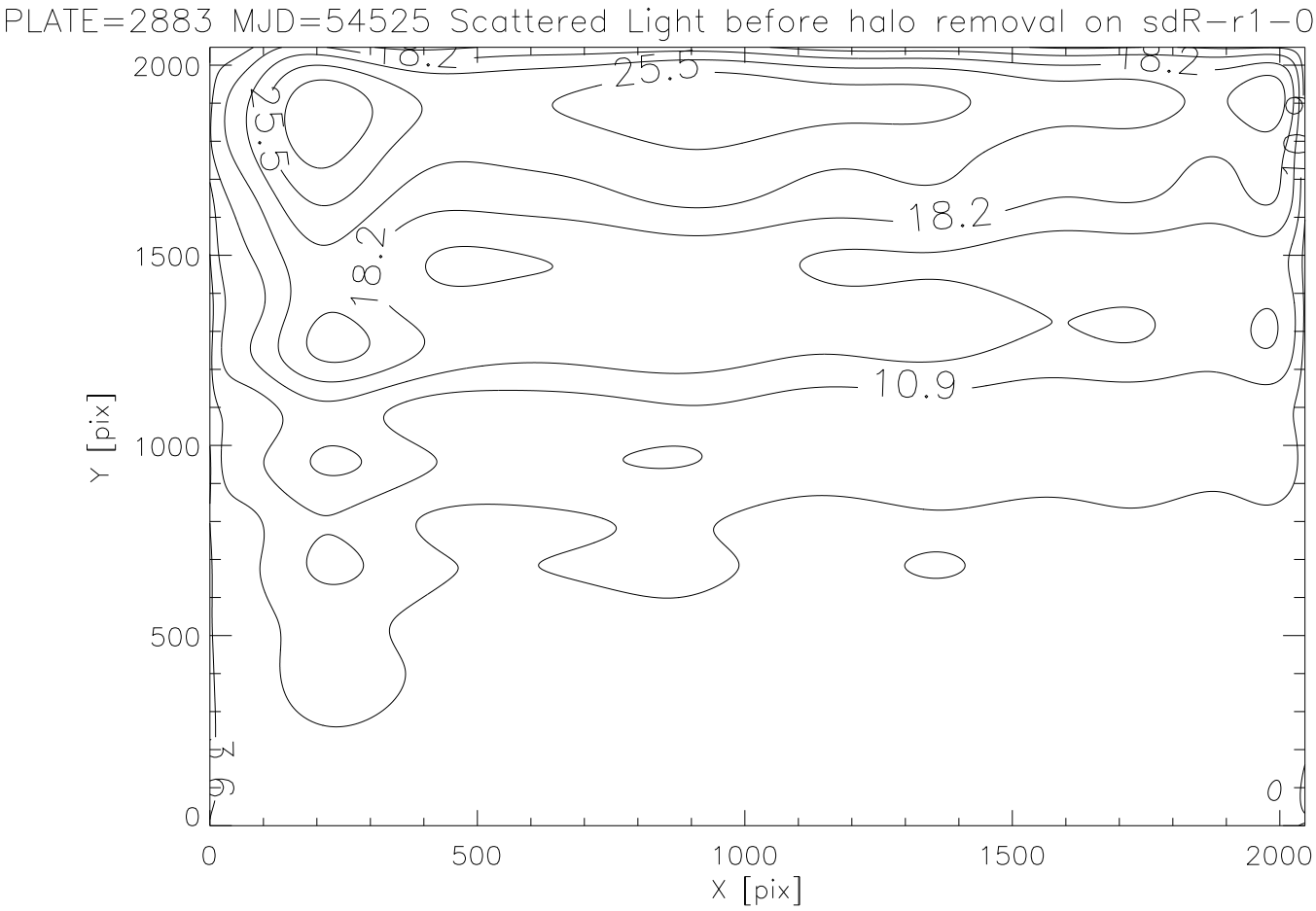

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

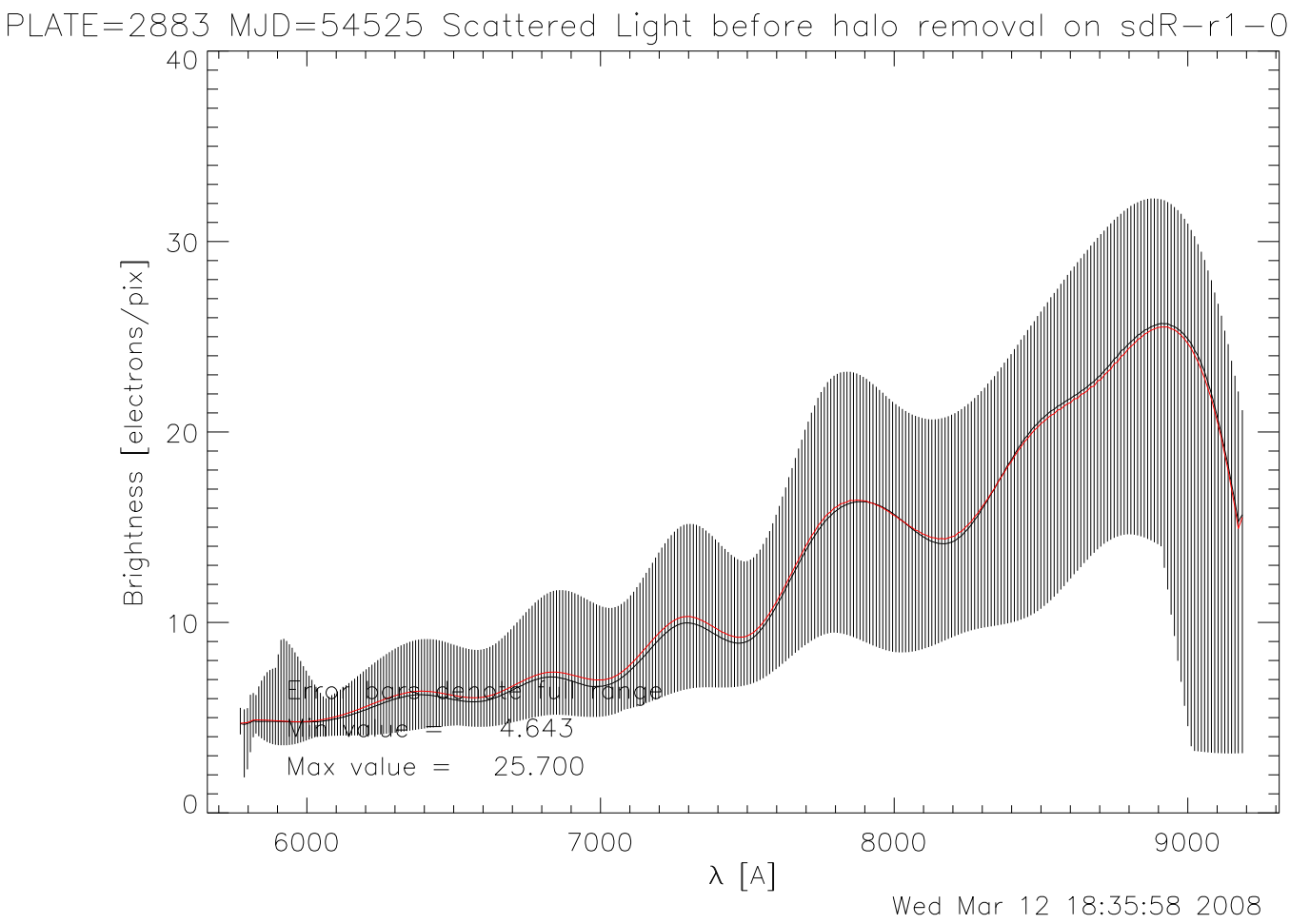

PLATE=2883 MJD=54525 flat extraction chi^2 for sdR−r1−00050496.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

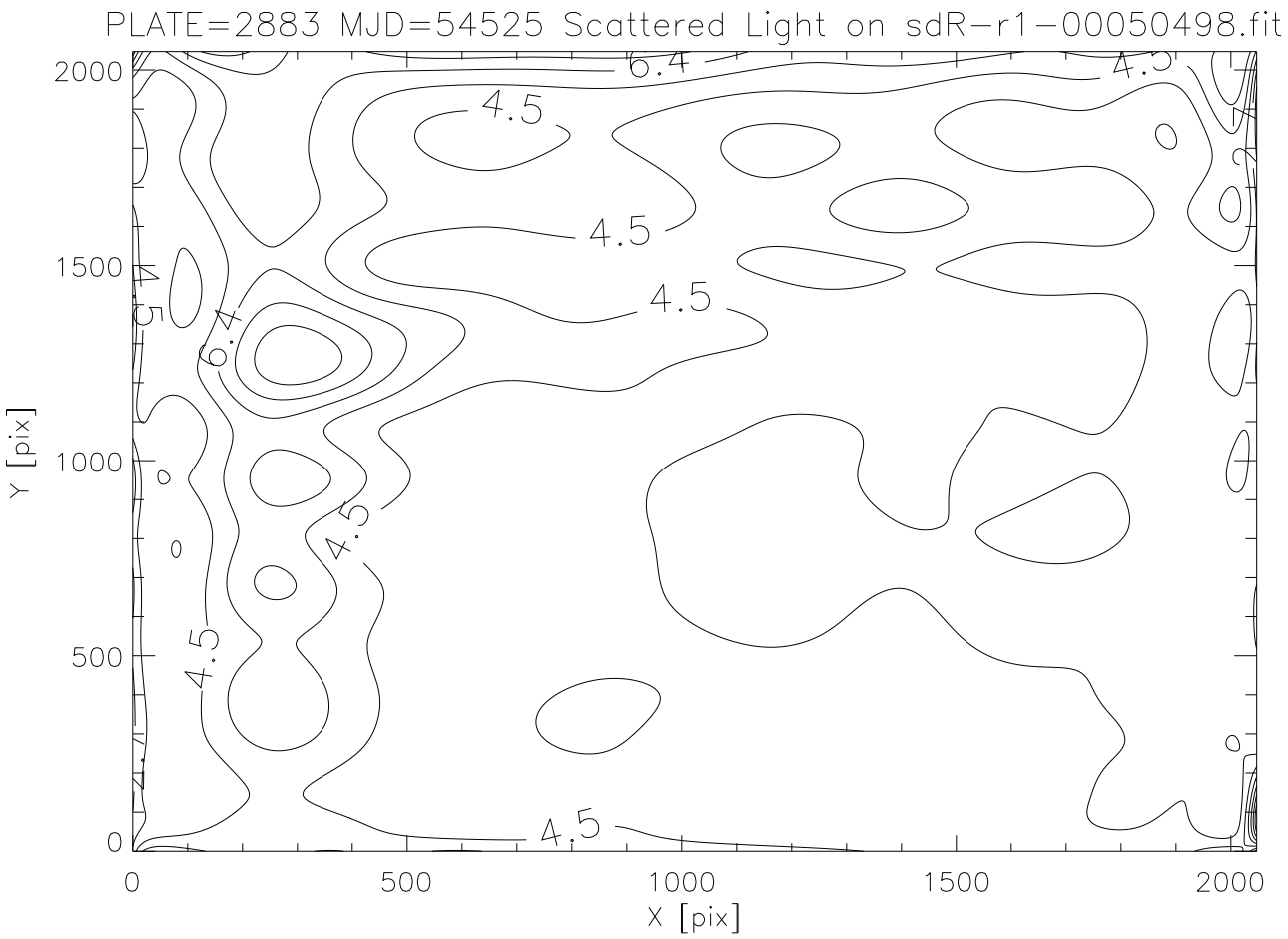

PLATE=2883 MJD=54525 Superflat sdR-r1-00050496.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

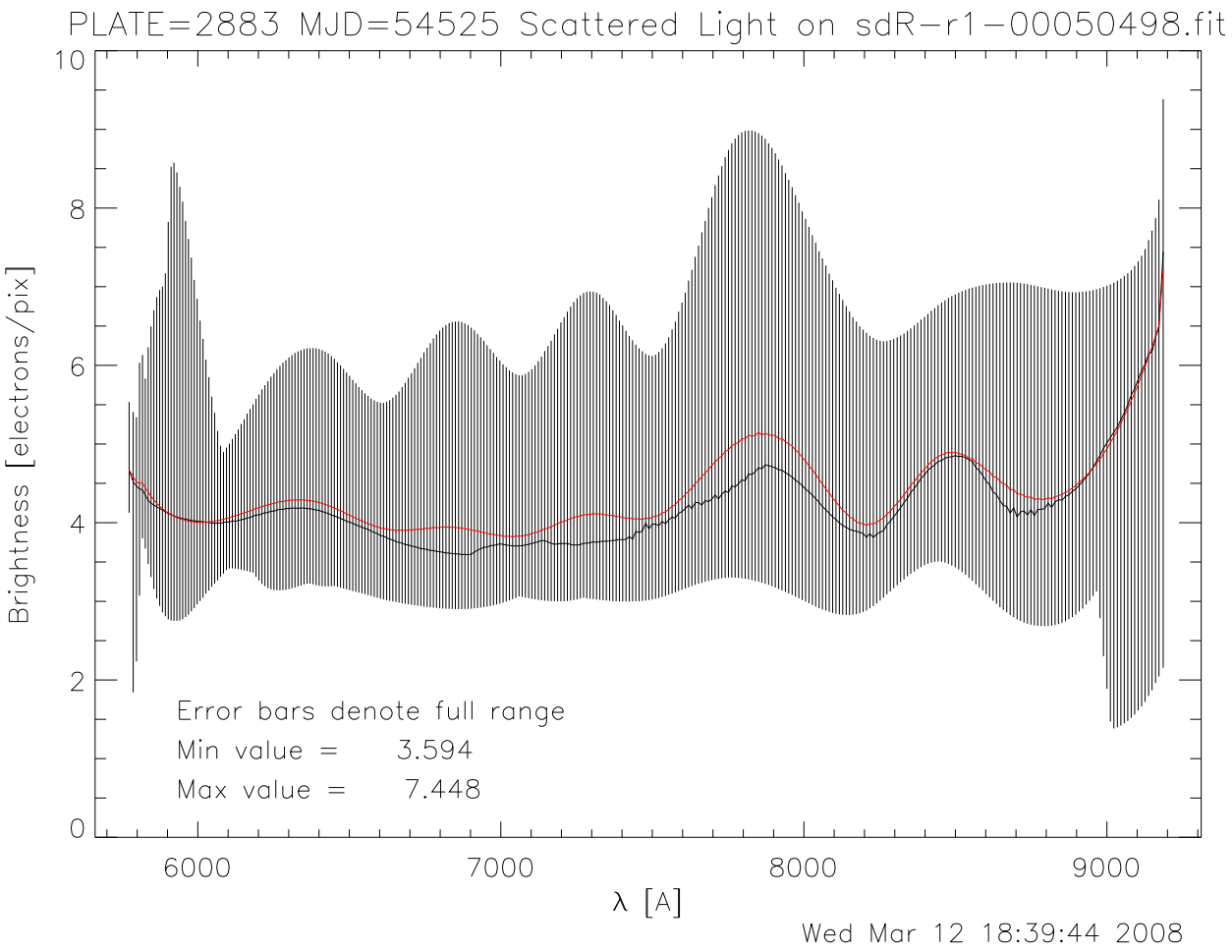

PLATE=2883 MJD=54525 Arcline Fit for sdR-r1-00050497.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 12 18:34:54 2008

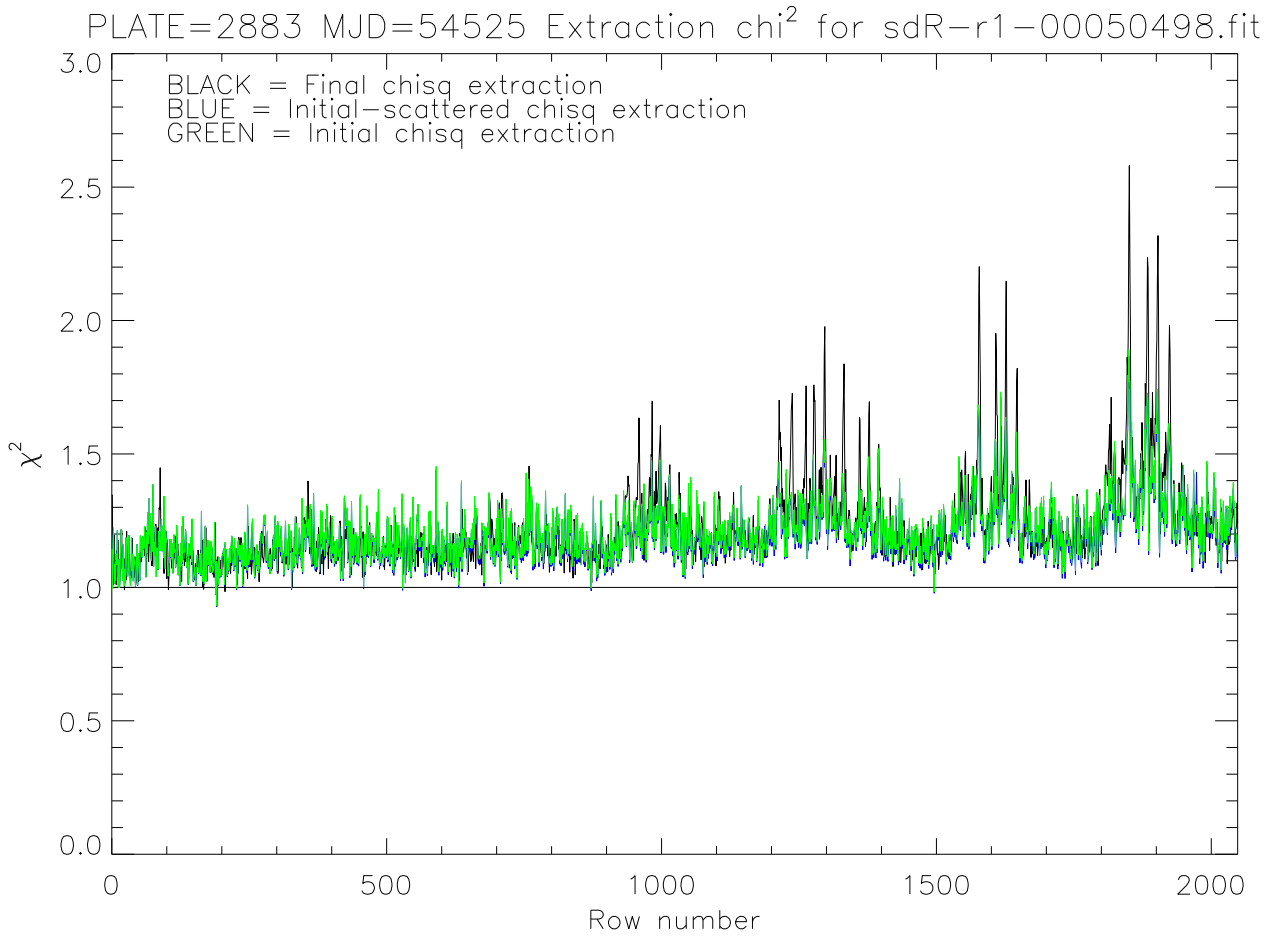

PLATE=2883 MJD=54525 Fiber−Flats for sdR−r1−00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.432
Max value = 1.490
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 18:35:04 2008

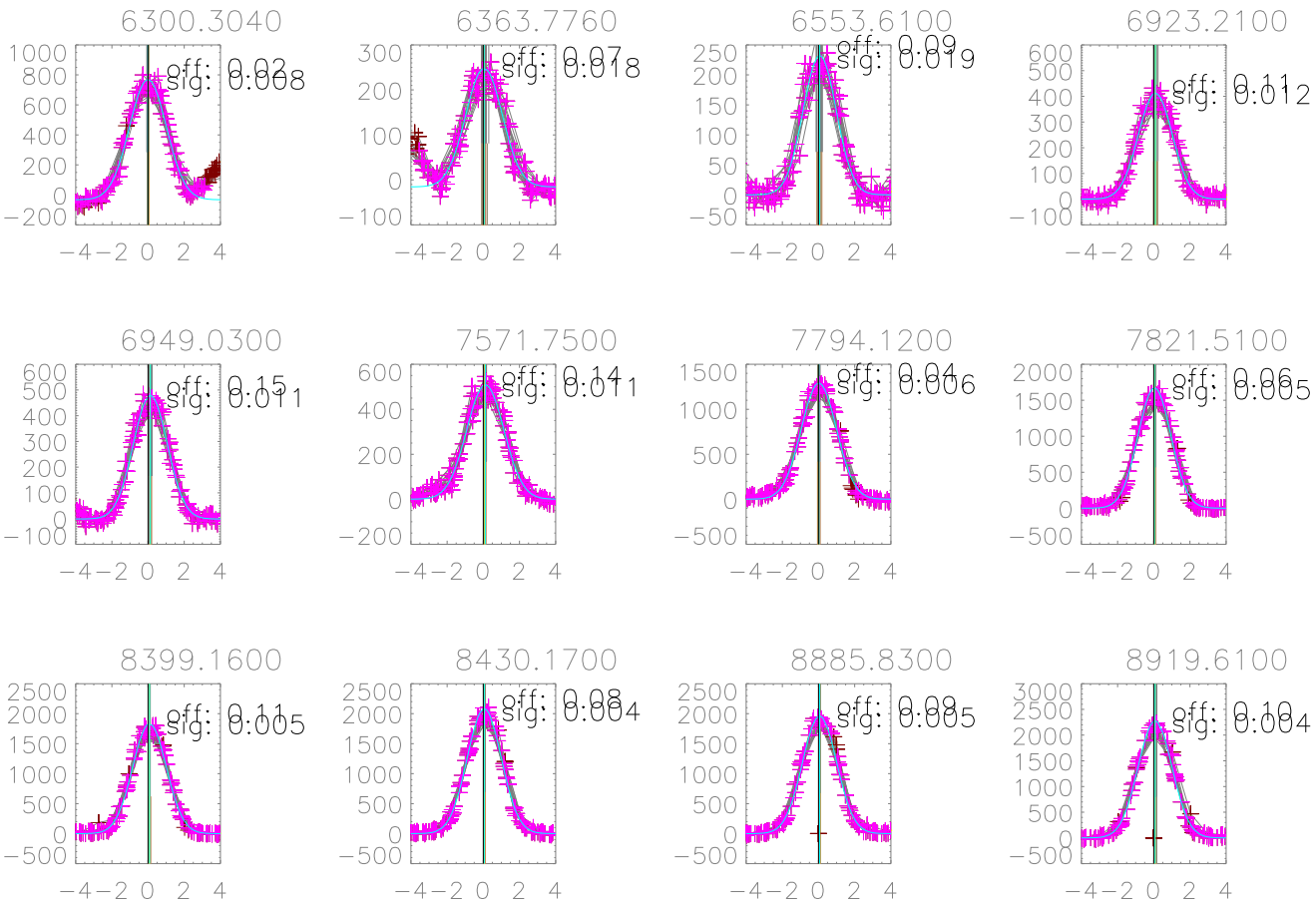

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r1-00050498.fi
25.5
18.2
10.9
0
2000
1500
1000
500
0
Y [pix]
X [pix]

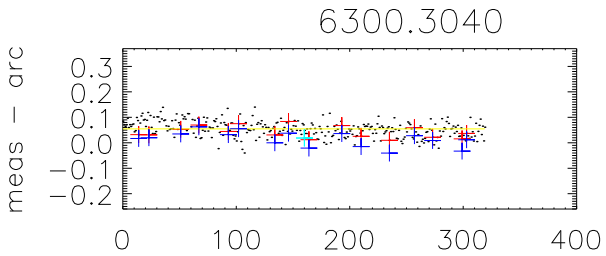

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r1-00050498.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.643
Max value = 25.700
Wed Mar 12 18:35:58 2008

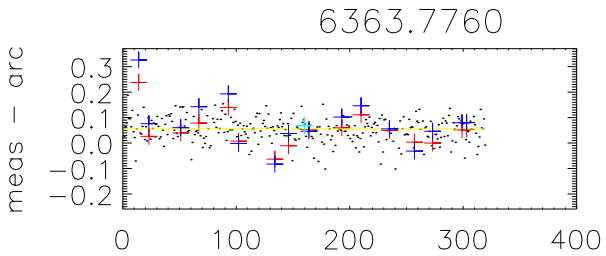

PLATE=2883 MJD=54525 Scattered Light on sdR−r1−00050498.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.4
4.5
0

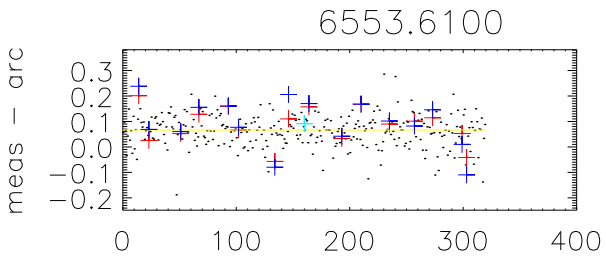

PLATE=2883 MJD=54525 Scattered Light on sdR-r1-00050498.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.594
Max value = 7.448
Wed Mar 12 18:39:44 2008

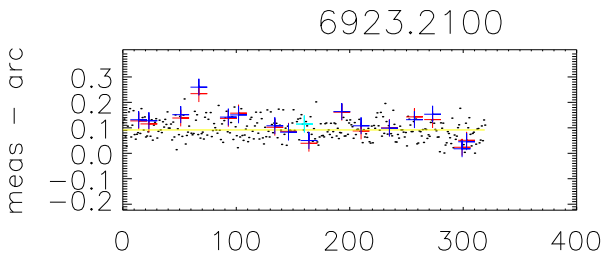

PLATE=2883 MJD=54525 Extraction chi^2 for sdR−r1−00050498.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

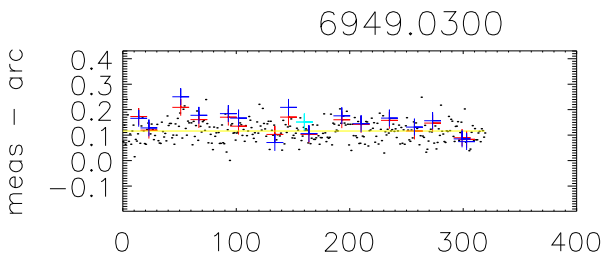

6300.3040
off: 0.02
sig: 0.008
6363.7760
off: 0.07
sig: 0.018
6553.6100
off: 0.09
sig: 0.019
6923.2100
off: 0.11
sig: 0.012
6949.0300
off: 0.15
sig: 0.011
7571.7500
off: 0.14
sig: 0.011
7794.1200
off: 0.04
sig: 0.006
7821.5100
off: 0.06
sig: 0.005
8399.1600
off: 0.11
sig: 0.005
8430.1700
off: 0.08
sig: 0.004
8885.8300
off: 0.08
sig: 0.005
8919.6100
off: 0.10
sig: 0.004

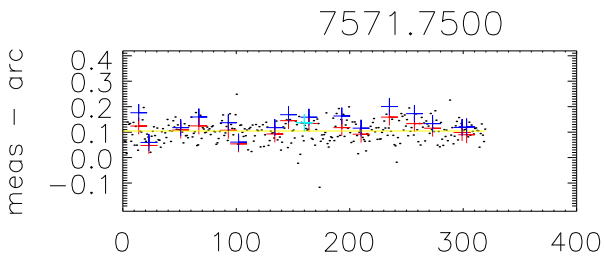

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

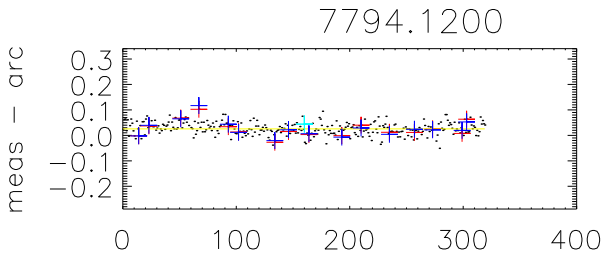

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

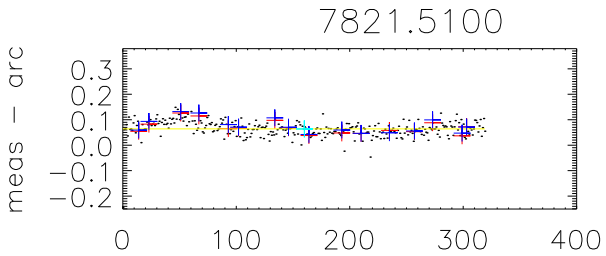

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

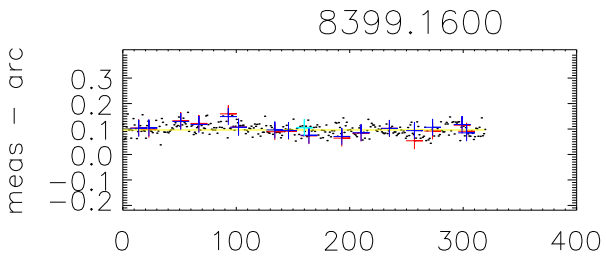

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

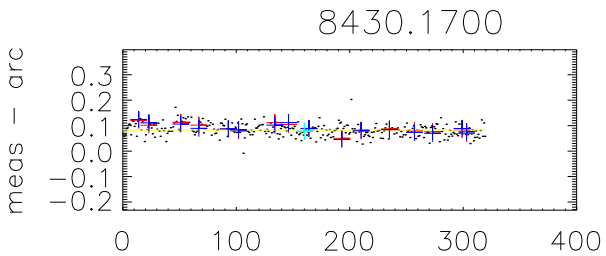

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

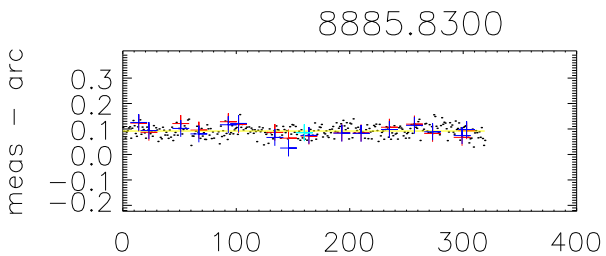

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

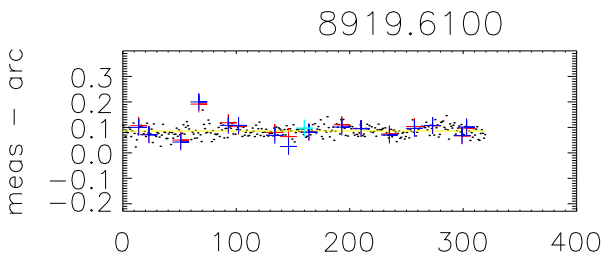

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

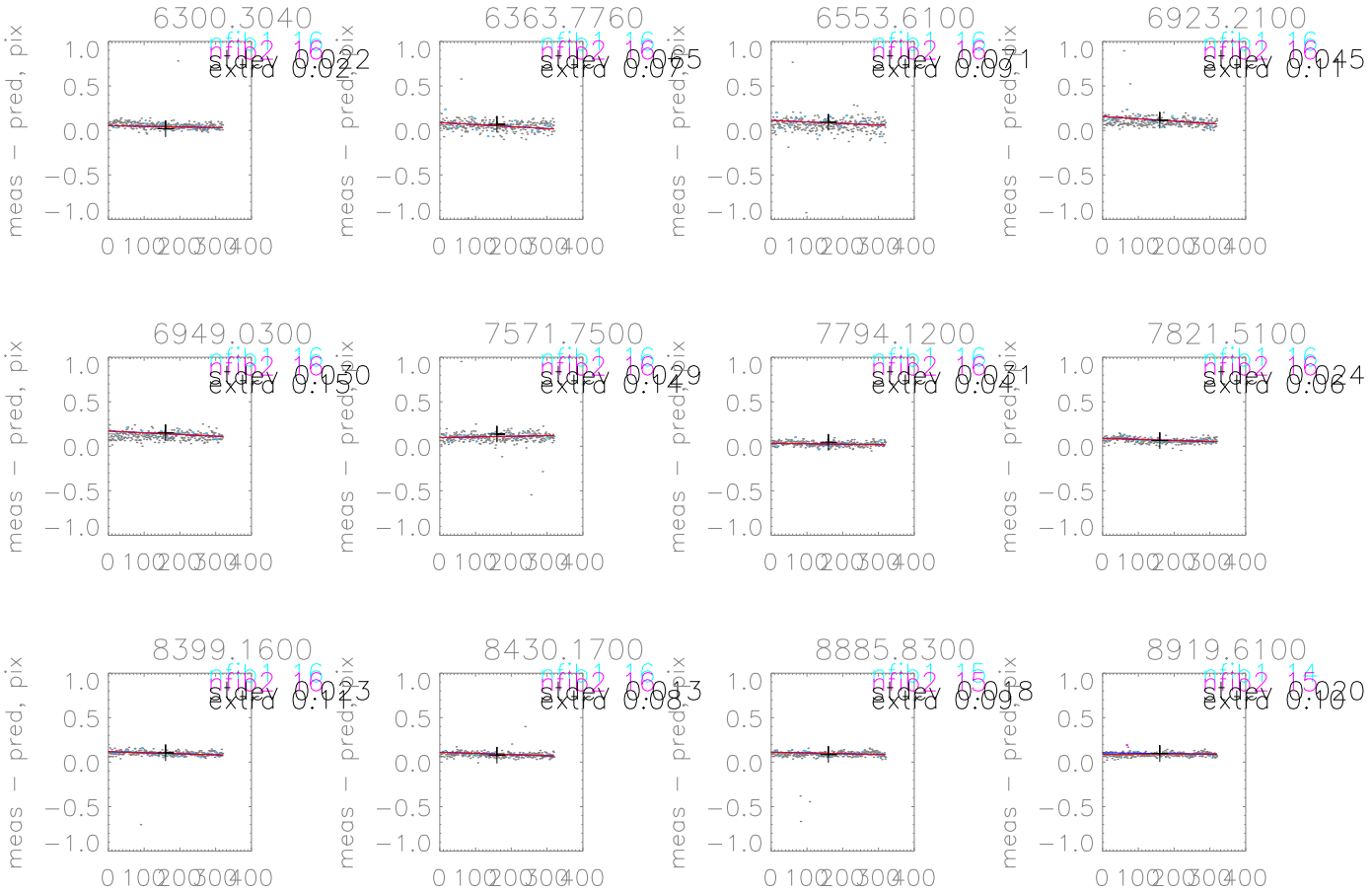

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

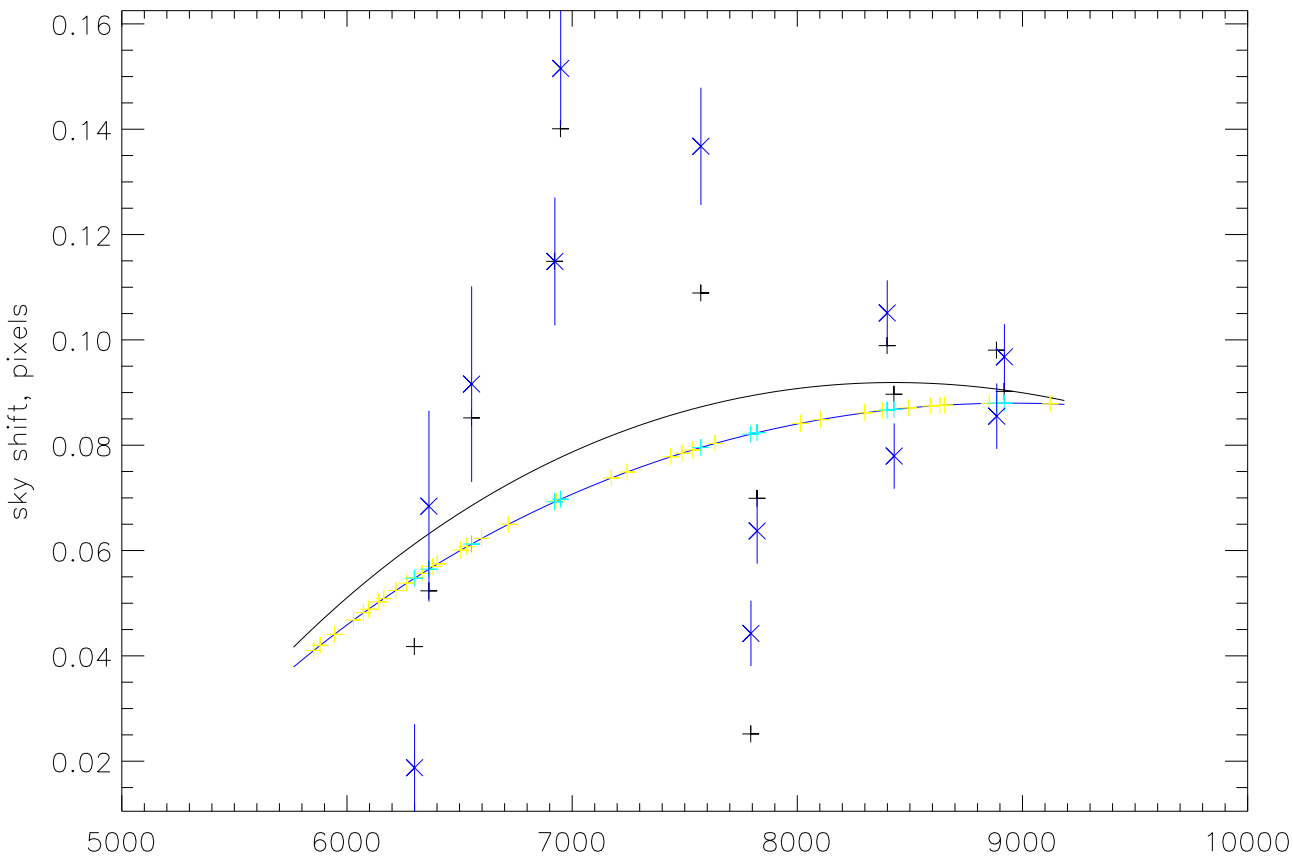

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

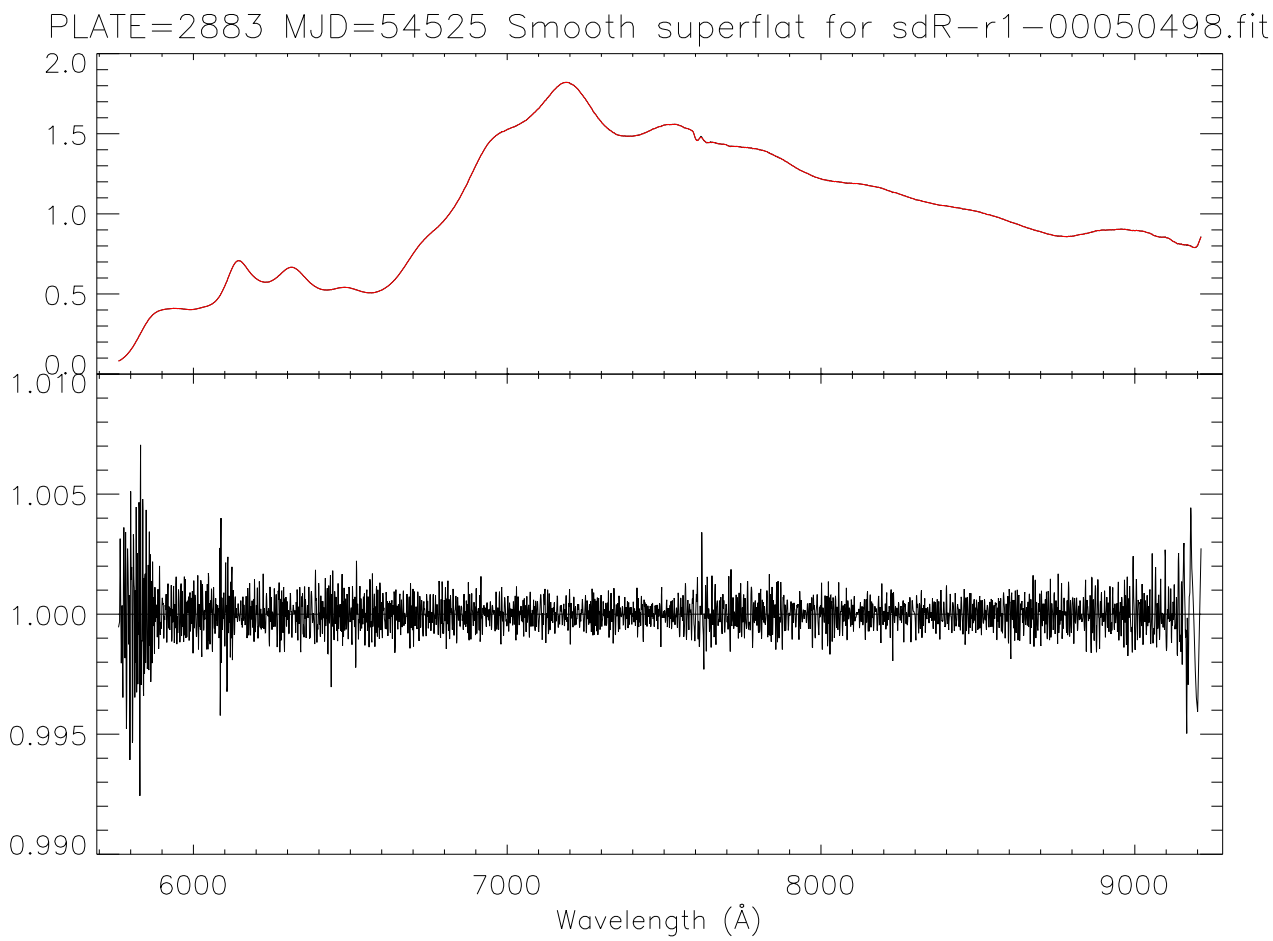

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

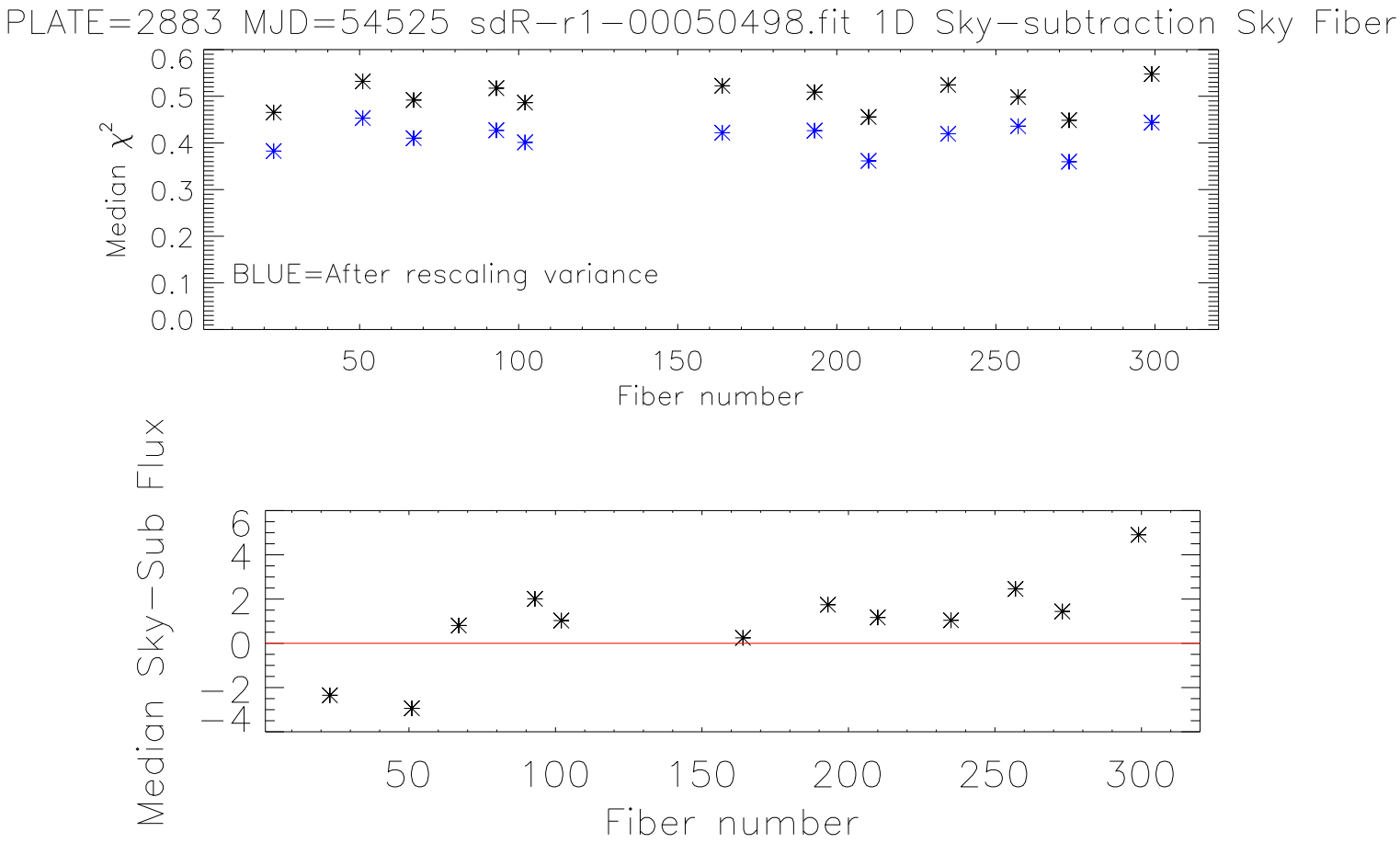

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

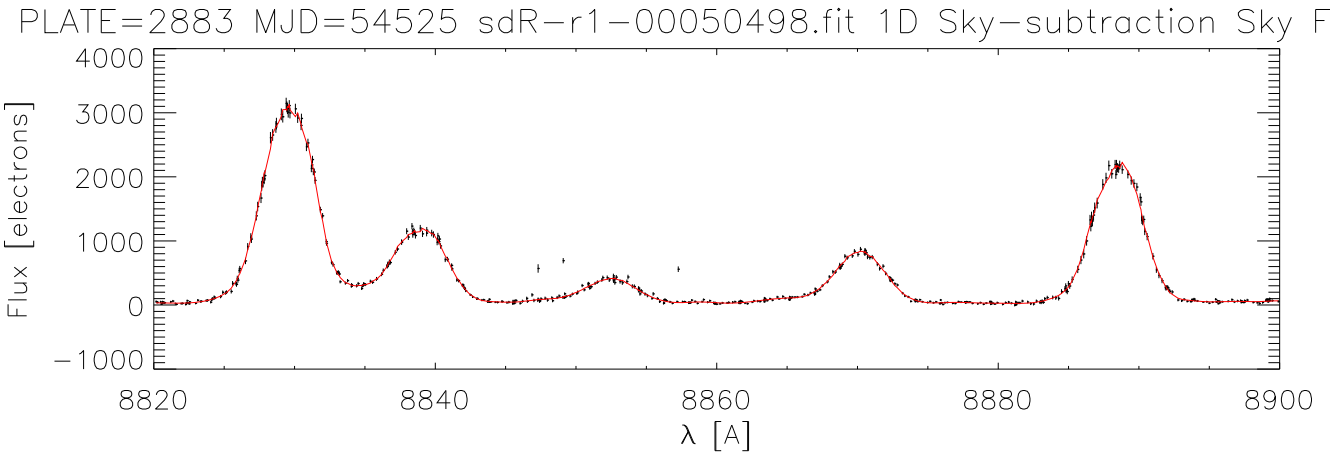

6300.3040
mfhi1 16
stdev 0.022
extra 0.022
6363.7760
mfhi1 16
stdev 0.065
extra 0.075
6553.6100
mfhi1 16
stdev 0.071
extra 0.091
6923.2100
mfhi1 16
stdev 0.045
extra 0.11
6949.0300
mfhi1 16
stdev 0.030
extra 0.15
7571.7500
mfhi1 16
stdev 0.029
extra 0.14
7794.1200
mfhi1 16
stdev 0.031
extra 0.041
7821.5100
mfhi1 16
stdev 0.024
extra 0.06
8399.1600
mfhi1 16
stdev 0.023
extra 0.11
8430.1700
mfhi1 16
stdev 0.043
extra 0.08
8885.8300
mfhi1 15
stdev 0.048
extra 0.098
8919.6100
mfhi1 14
stdev 0.020
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

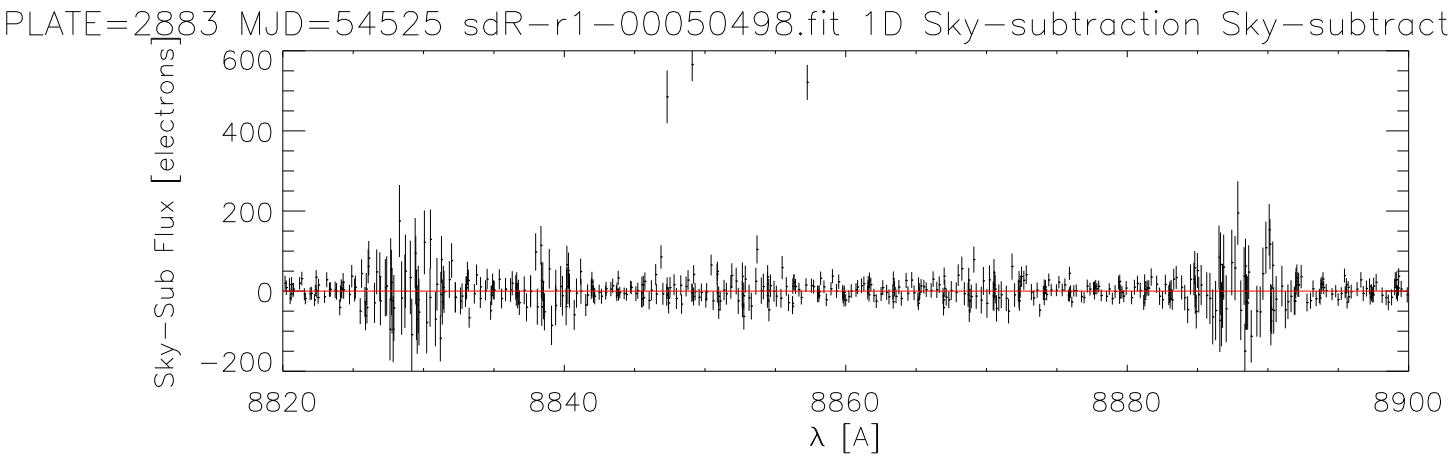

sky shift, pixels
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
5000
6000
7000
8000
9000
10000

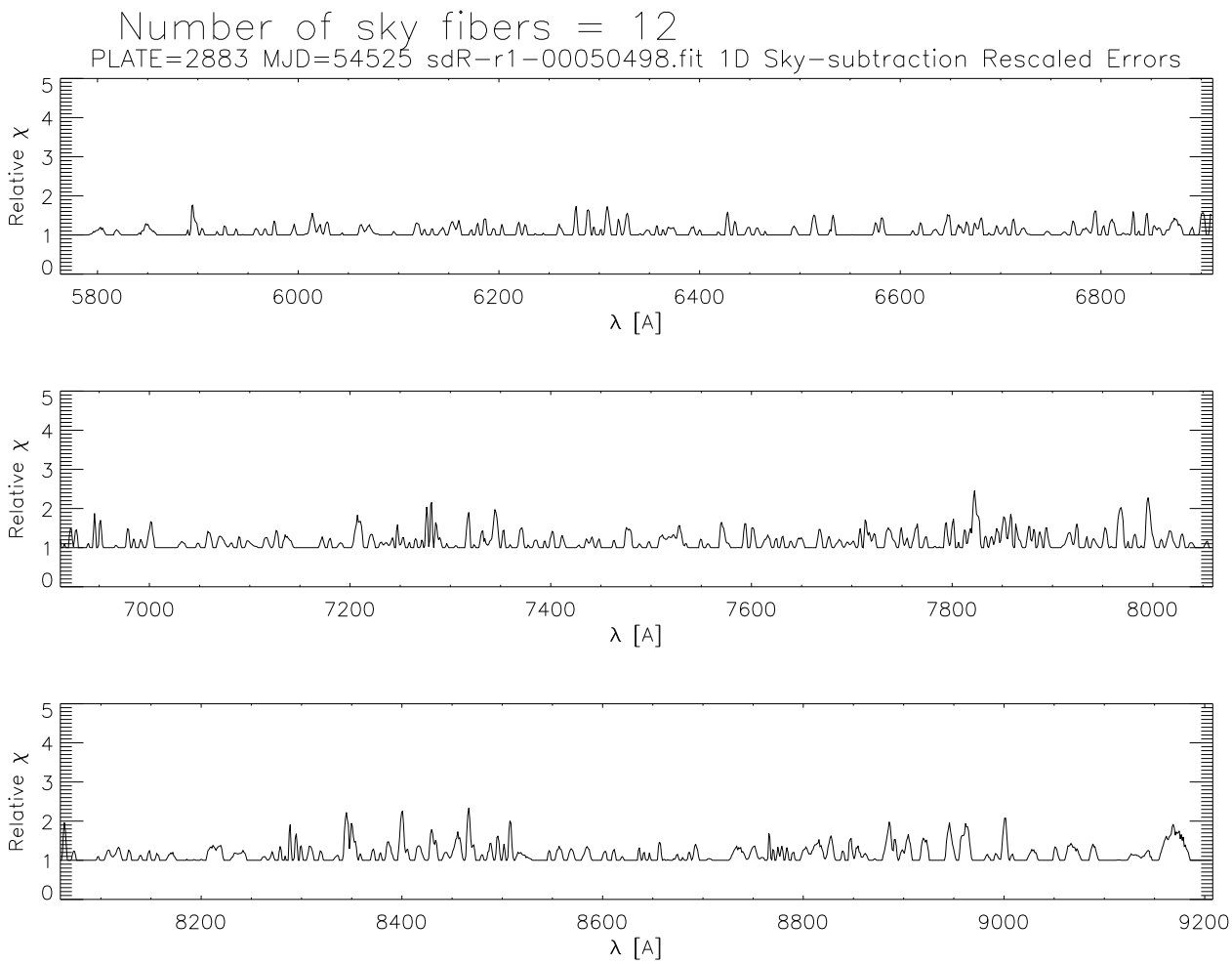
es= 0.0000

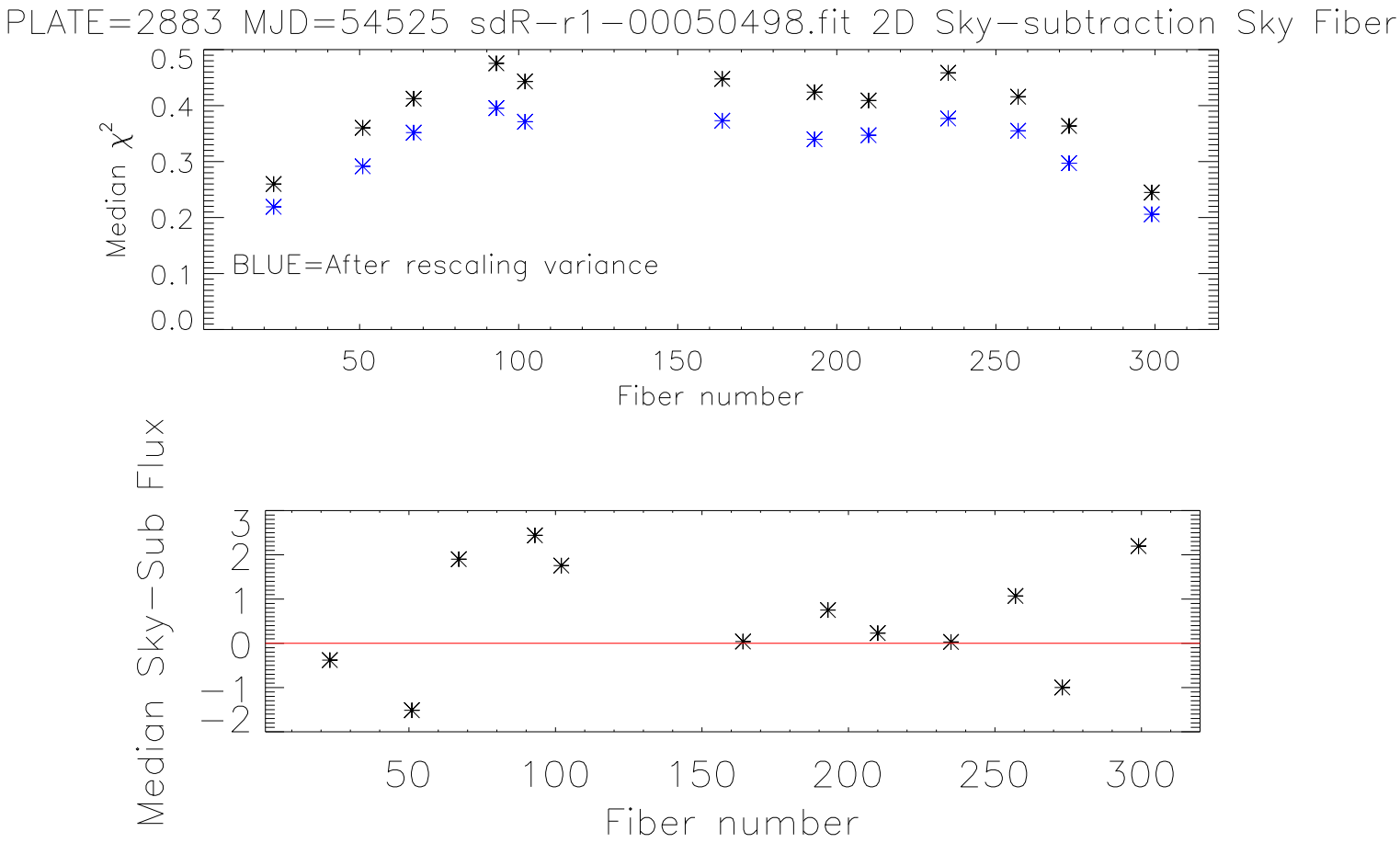

PLATE=2883 MJD=54525 Smooth superflat for sdR-r1-00050498.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

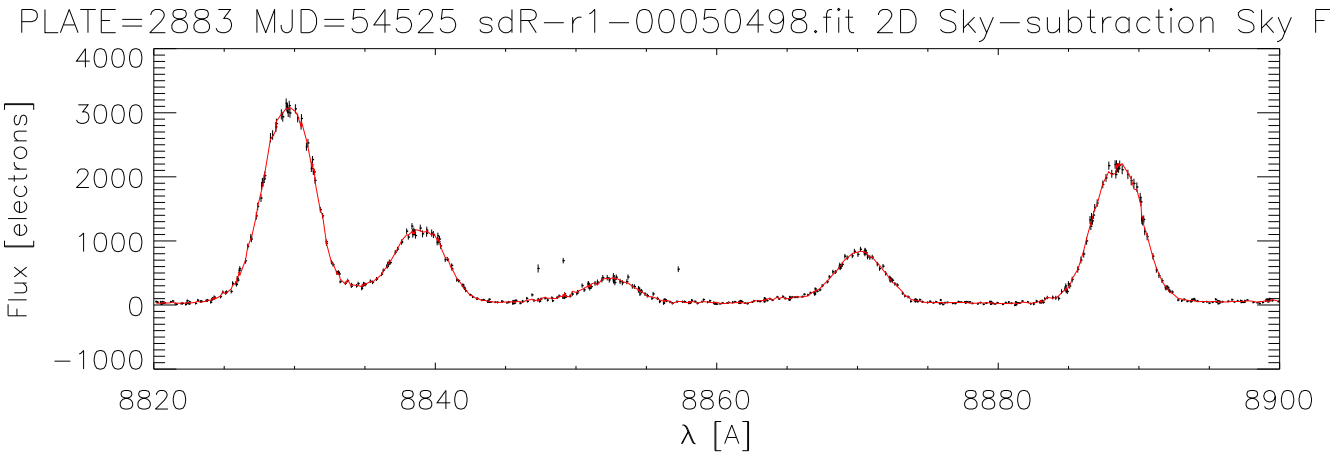

PLATE=2883 MJD=54525 sdR-r1-00050498.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

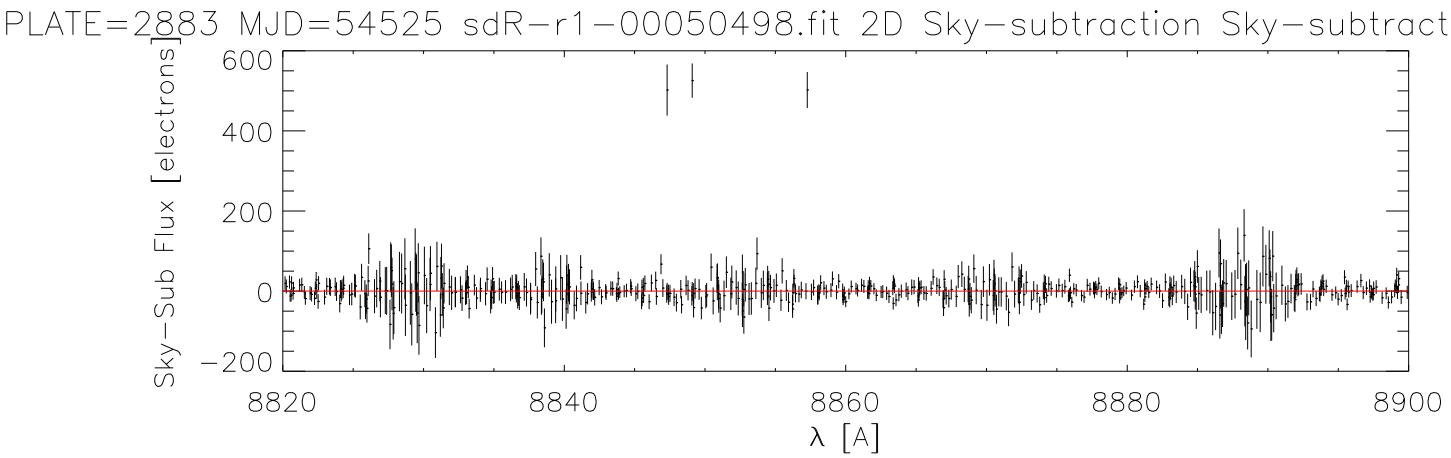

PLATE=2883 MJD=54525 sdR-r1-00050498.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

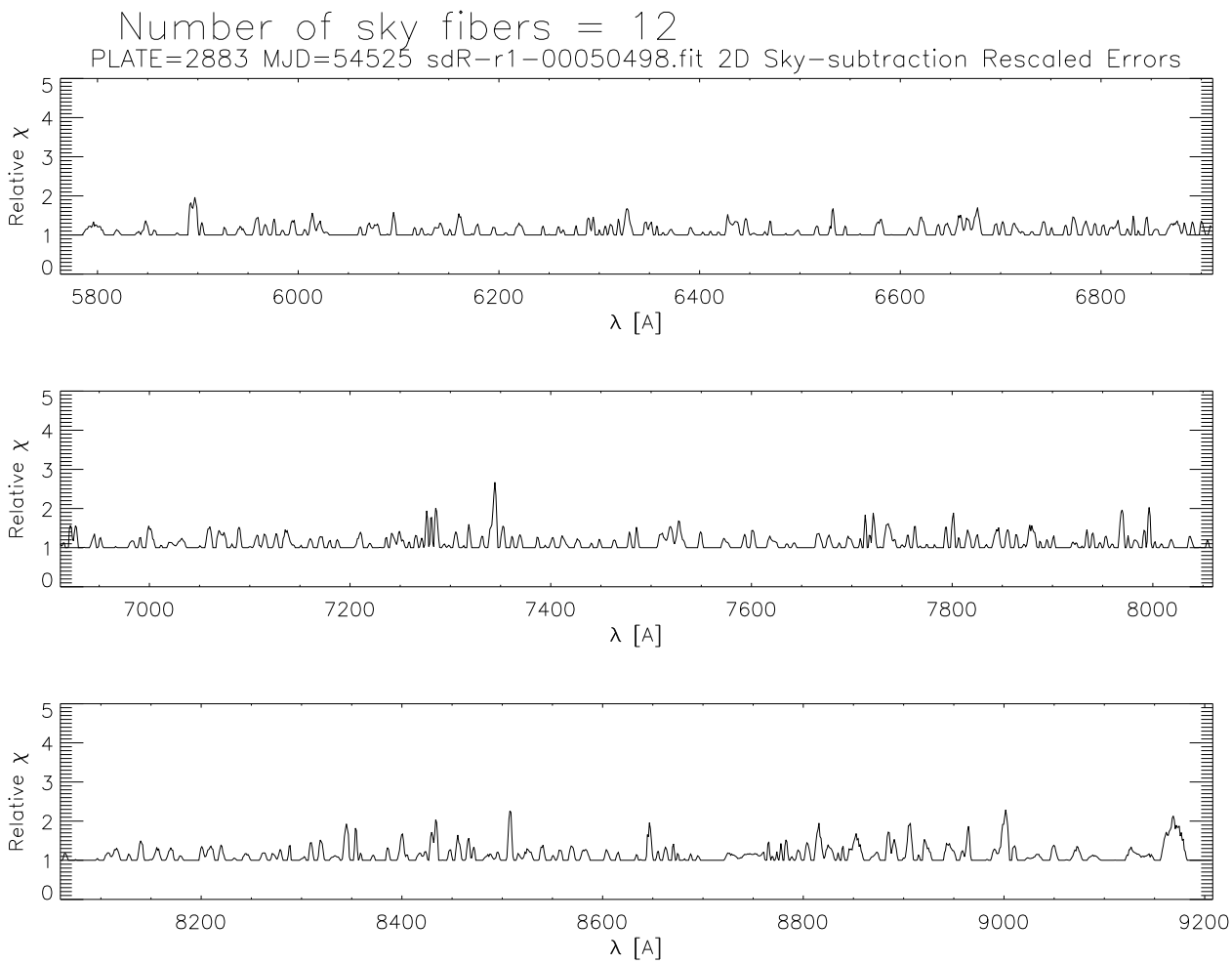

PLATE=2883 MJD=54525 sdR-r1-00050498.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
8820
8840
8860
8880
8900
λ [A]

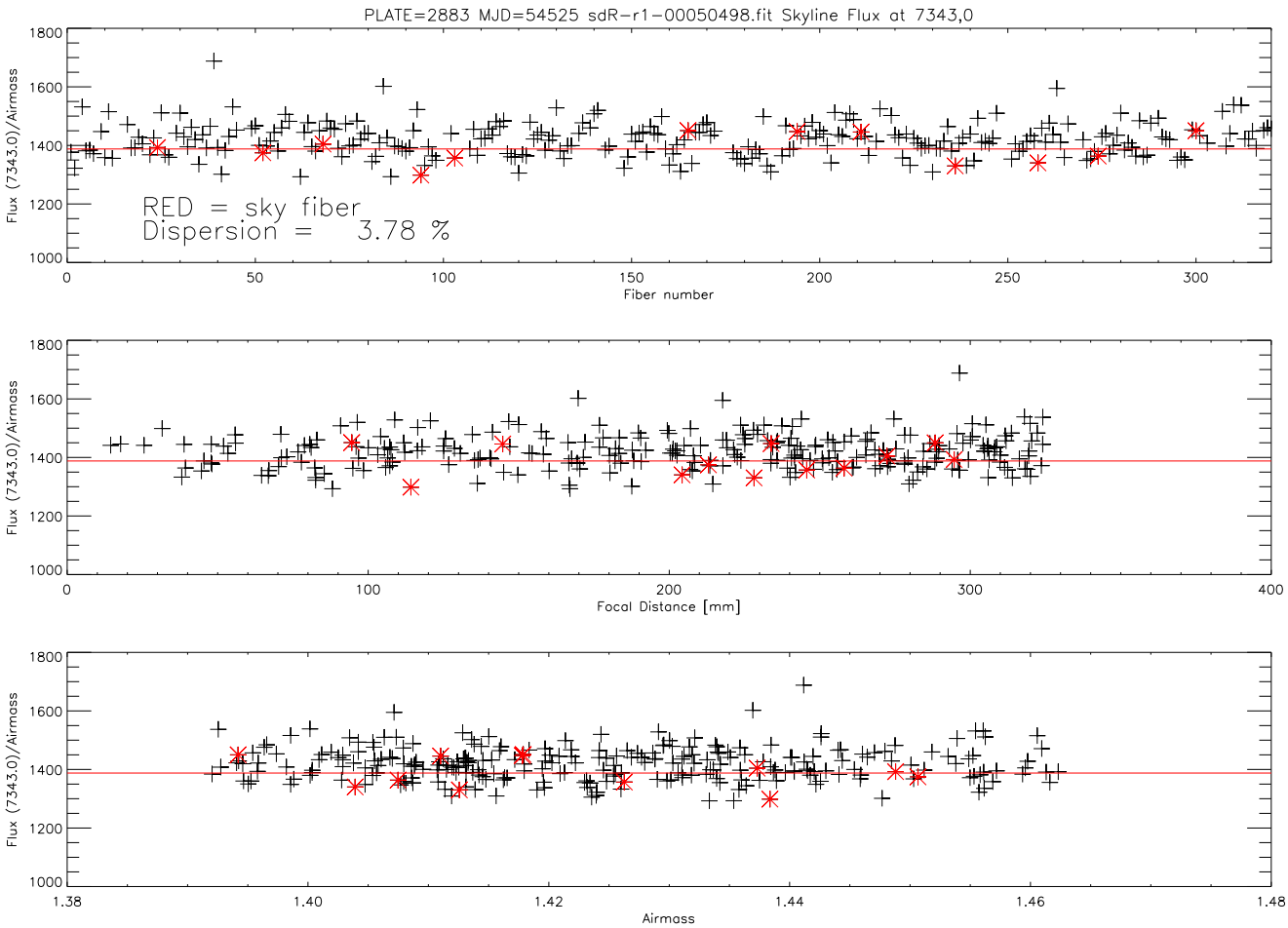

Number of sky fibers = 12
PLATE=2883 MJD=54525 sdR-r1-00050498.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

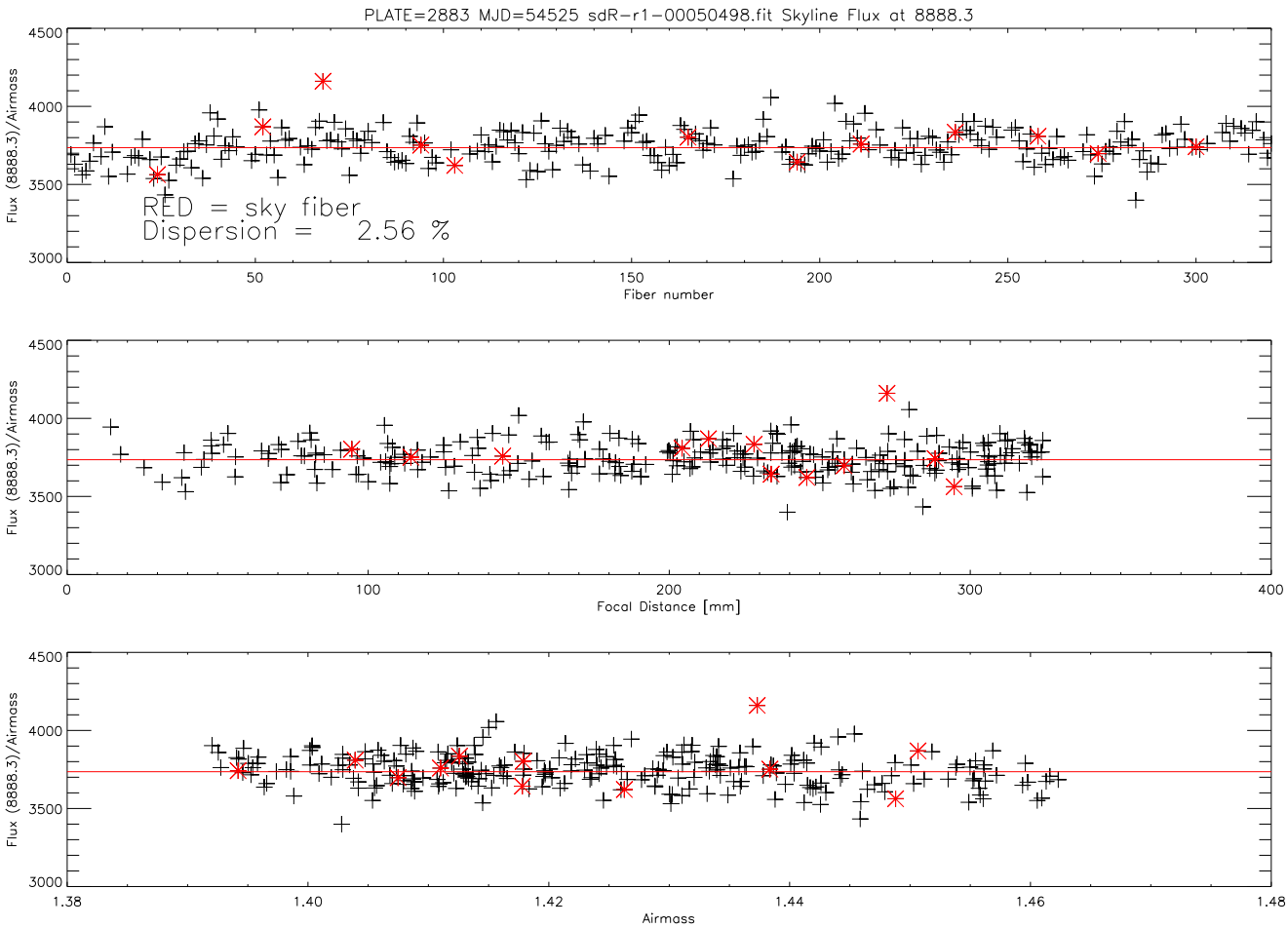

PLATE=2883 MJD=54525 sdR-r1-00050498.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

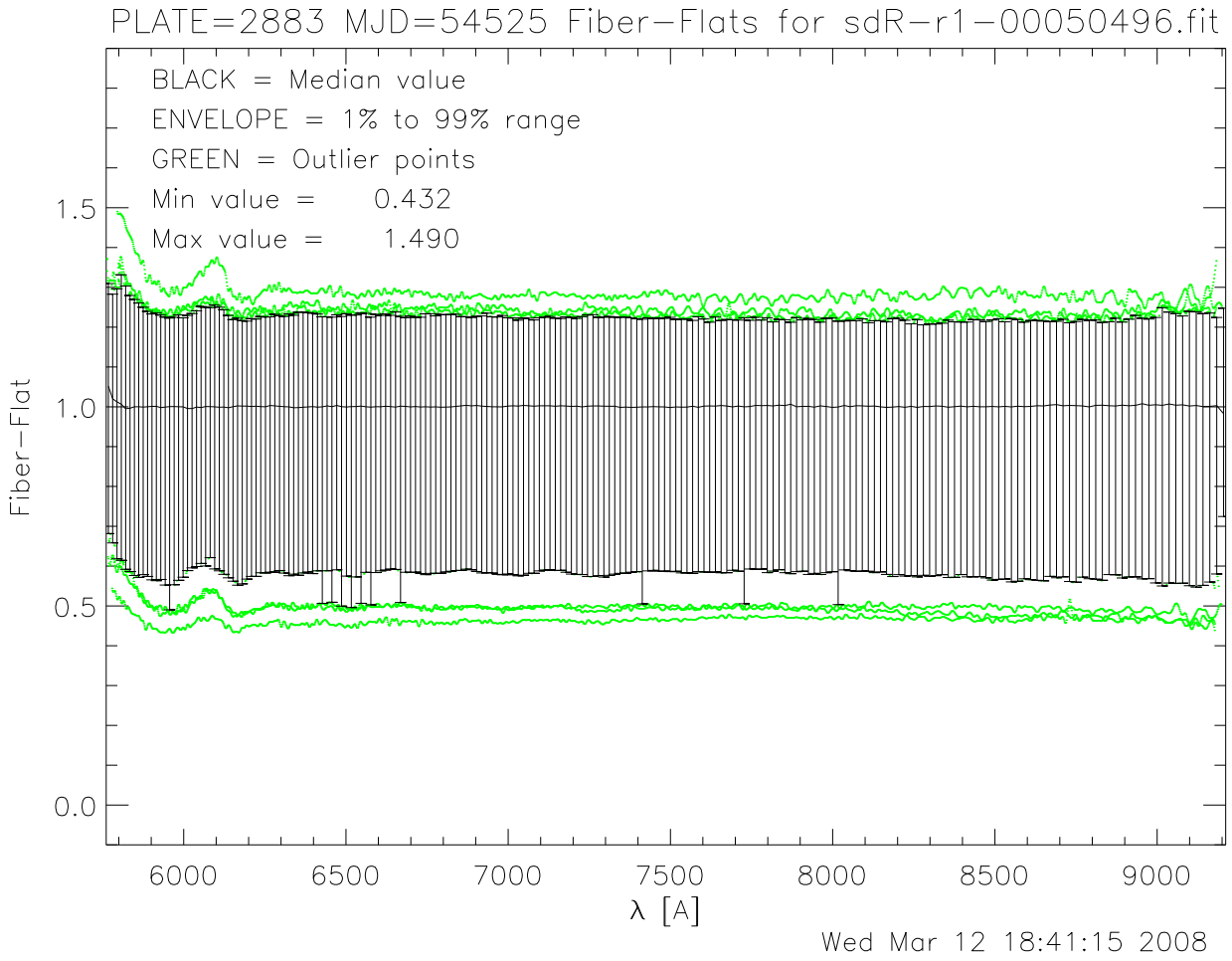

PLATE=2883 MJD=54525 sdR-r1-00050498.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

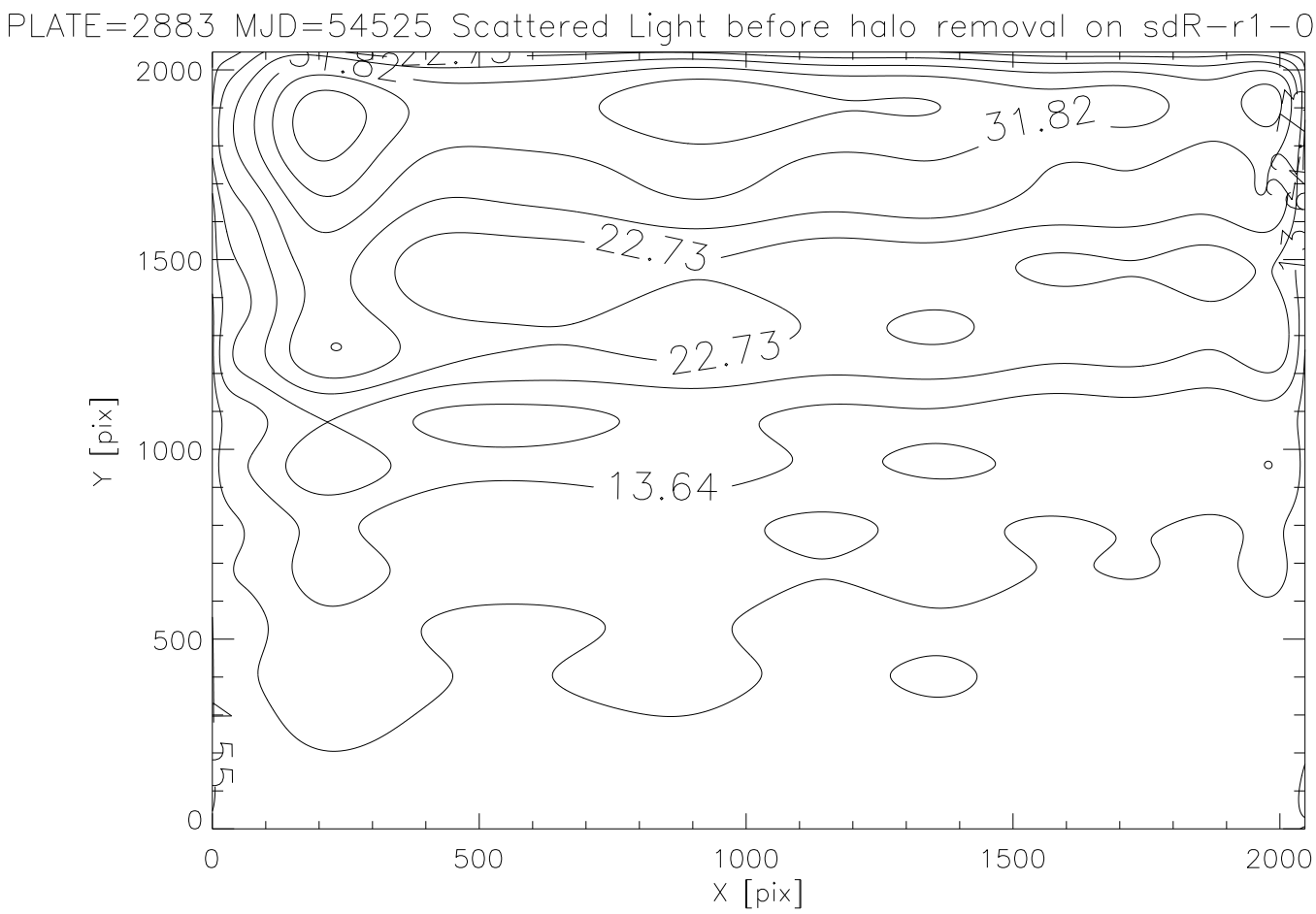

PLATE=2883 MJD=54525 sdR-r1-00050498.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
8820
8840
8860
8880
8900
λ [A]

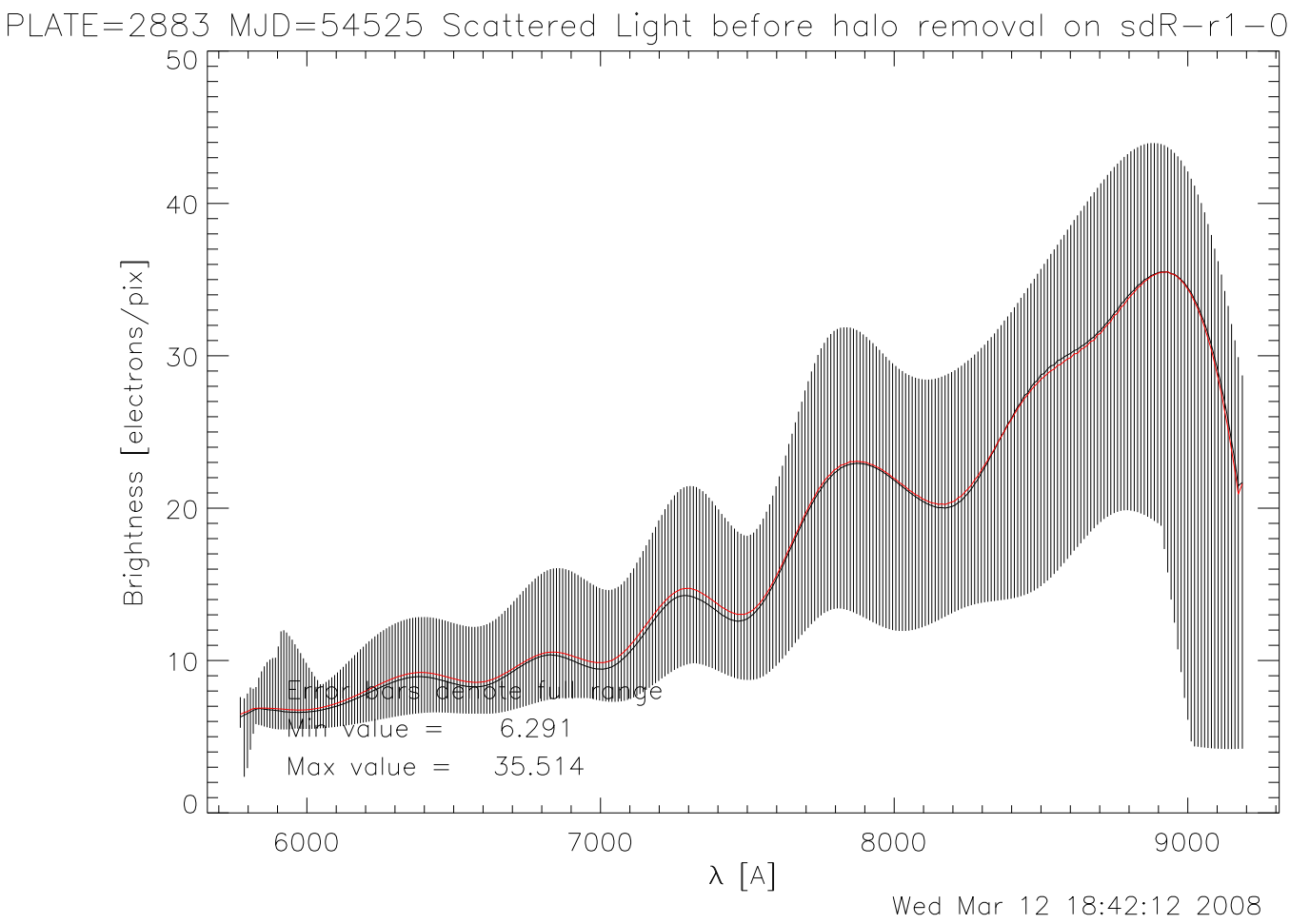

Number of sky fibers = 12
PLATE=2883 MJD=54525 sdR-r1-00050498.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

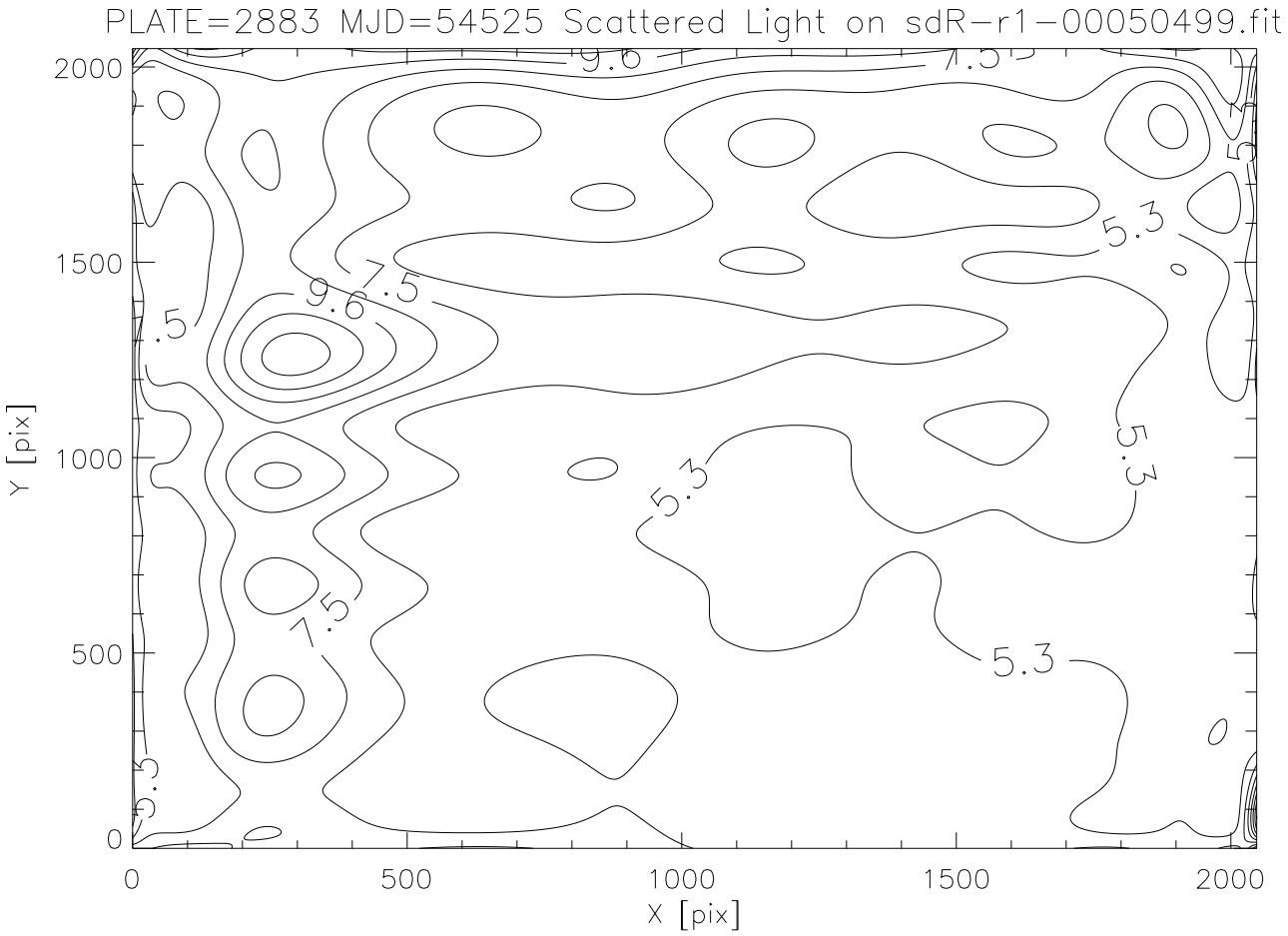

PLATE=2883 MJD=54525 sdR-r1-00050498.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.78 %
Fiber number
Focal Distance [mm]
Airmass

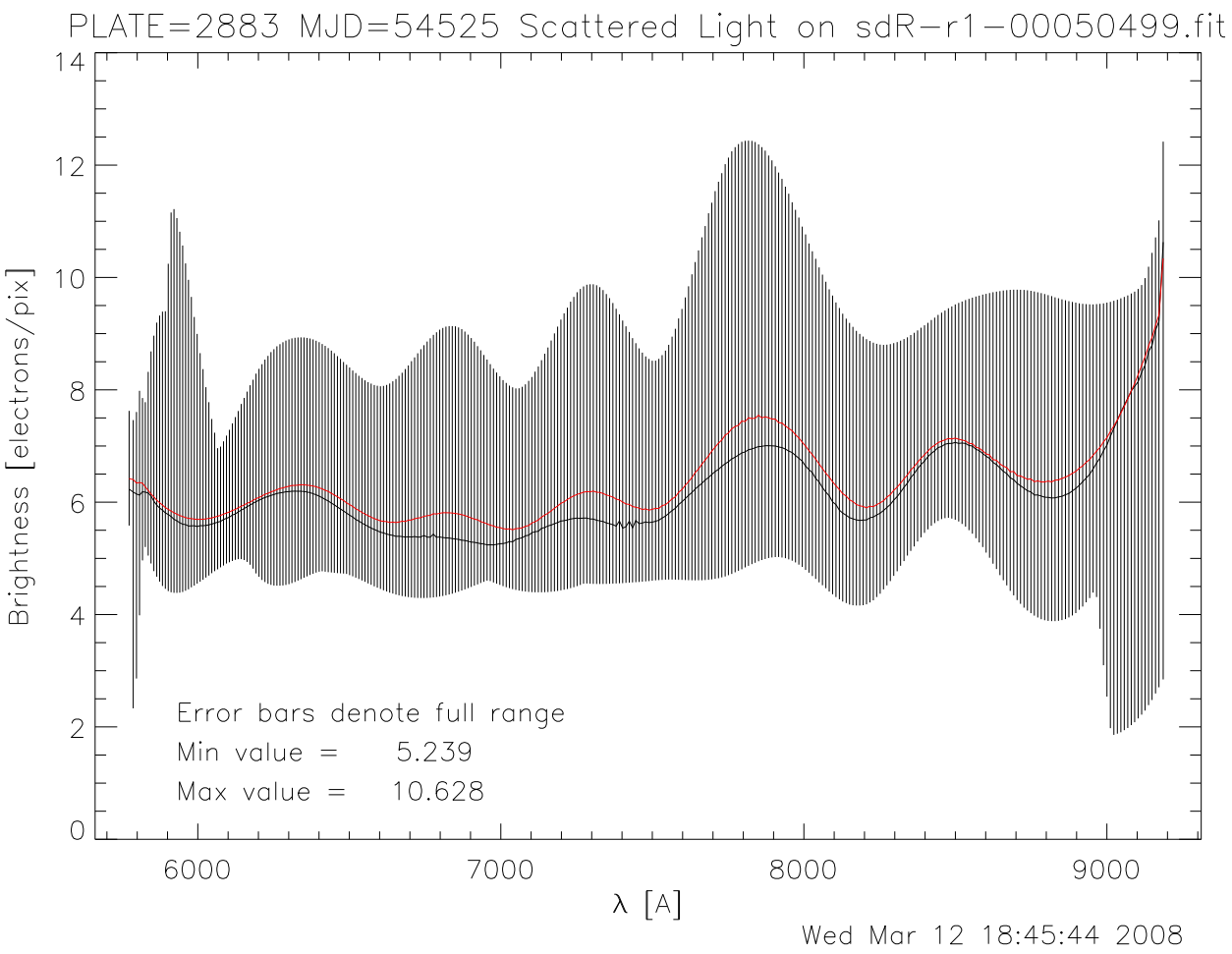

PLATE=2883 MJD=54525 sdR-r1-00050498.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.56 %
Fiber number
Focal Distance [mm]
Airmass

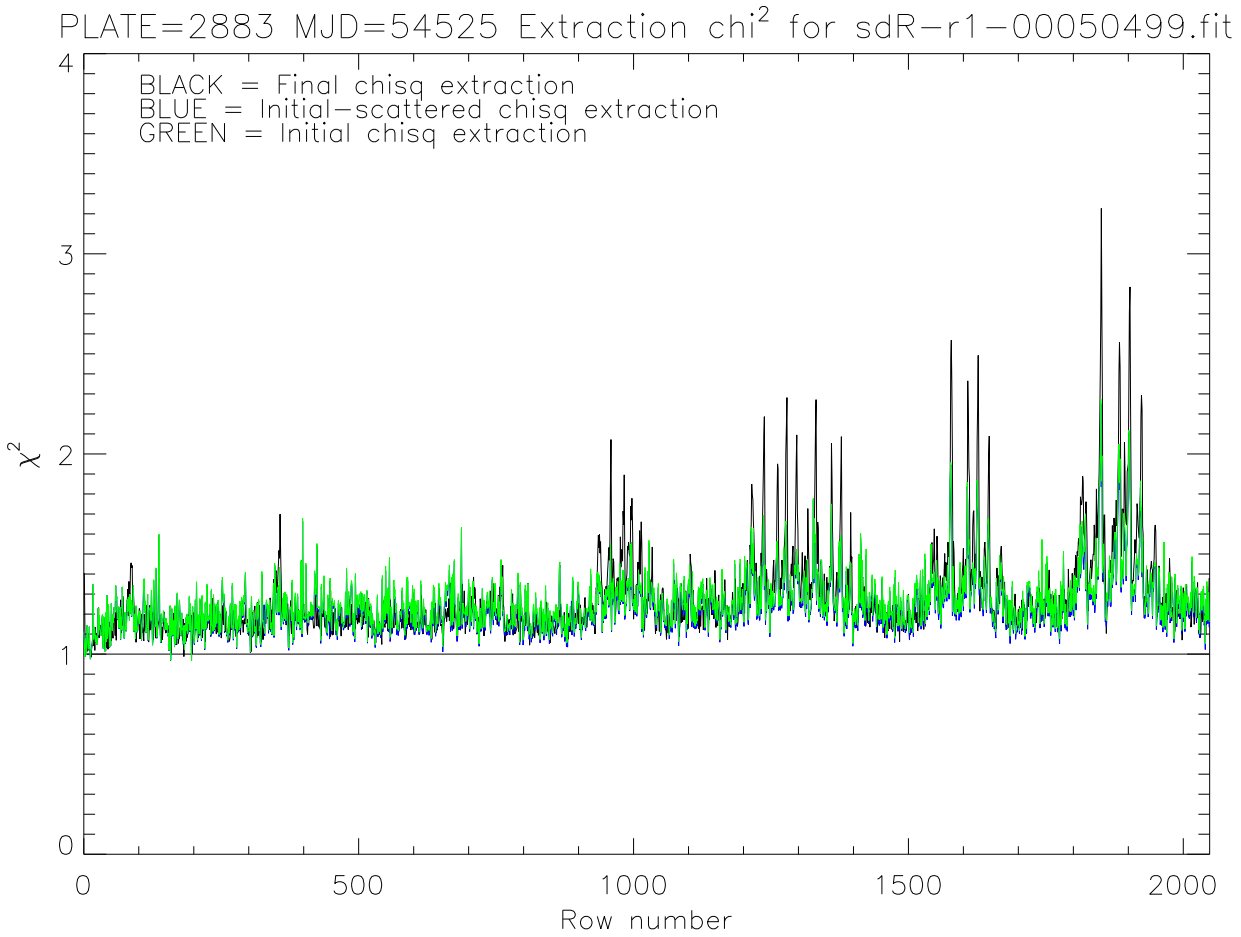

PLATE=2883 MJD=54525 Fiber−Flats for sdR−r1−00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.432
Max value = 1.490
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 18:41:15 2008

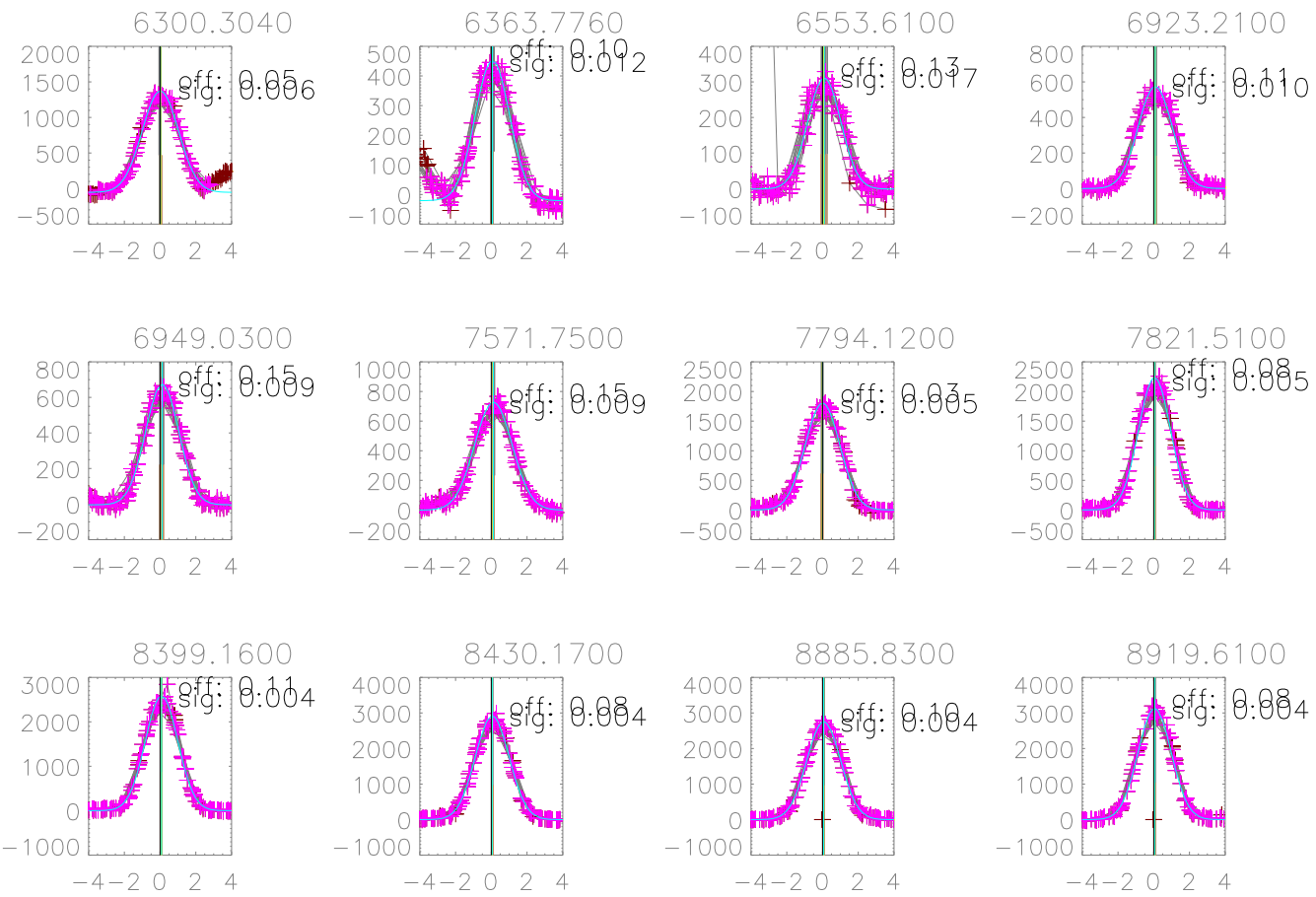

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR−r1−00050499.fi
31.82
22.73
22.73
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

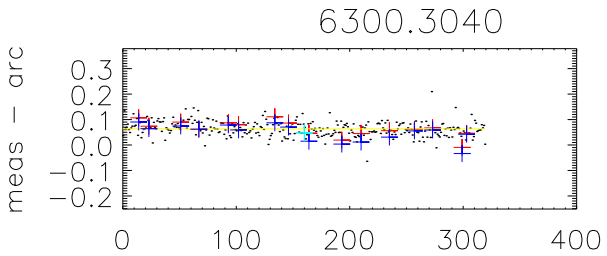

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r1-00050499.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.291
Max value = 35.514
Wed Mar 12 18:42:12 2008

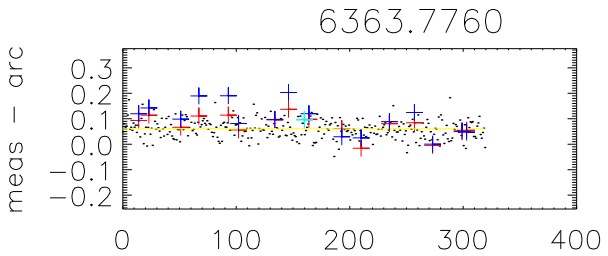

PLATE=2883 MJD=54525 Scattered Light on sdR−r1−00050499.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
7.5
5.3
0

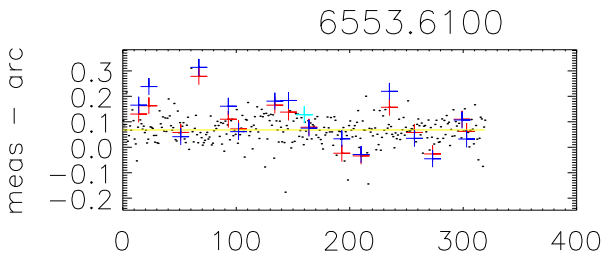

PLATE=2883 MJD=54525 Scattered Light on sdR-r1-00050499.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.239
Max value = 10.628
Wed Mar 12 18:45:44 2008

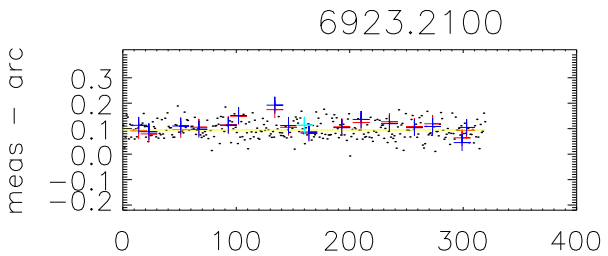

PLATE=2883 MJD=54525 Extraction chi^2 for sdR−r1−00050499.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

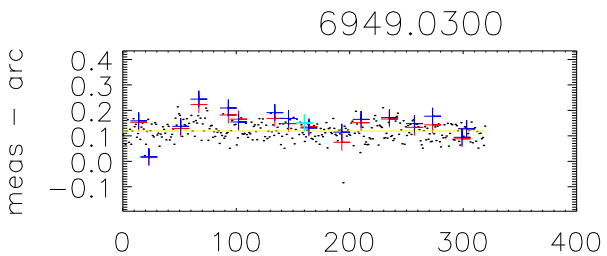

6300.3040
off: 0.05
sig: 0.006
6363.7760
off: 0.10
sig: 0.012
6553.6100
off: 0.13
sig: 0.017
6923.2100
off: 0.11
sig: 0.010
6949.0300
off: 0.15
sig: 0.009
7571.7500
off: 0.15
sig: 0.009
7794.1200
off: 0.03
sig: 0.005
7821.5100
off: 0.08
sig: 0.005
8399.1600
off: 0.11
sig: 0.004
8430.1700
off: 0.08
sig: 0.004
8885.8300
off: 0.10
sig: 0.004
8919.6100
off: 0.08
sig: 0.004

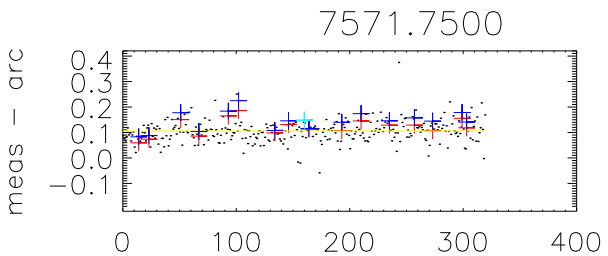

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

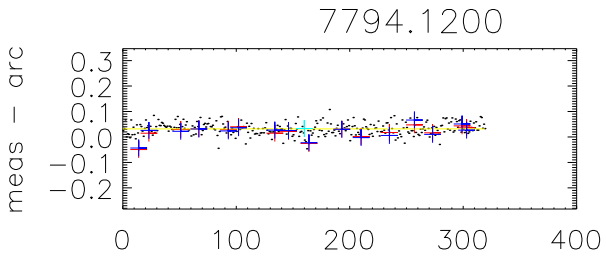

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

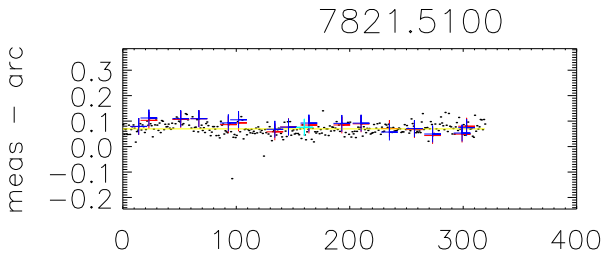

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

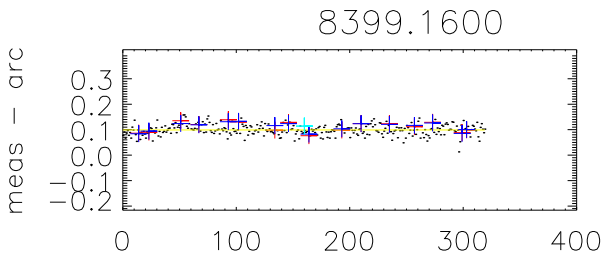

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

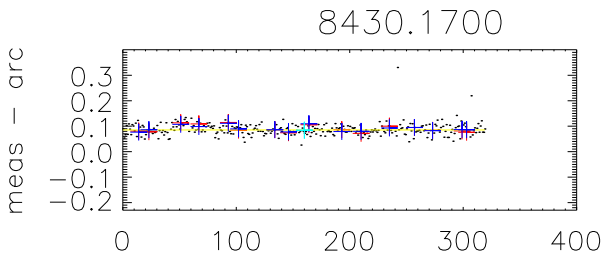

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

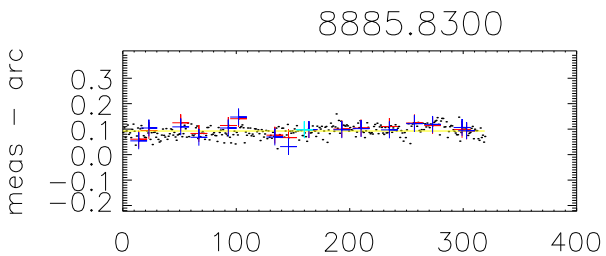

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

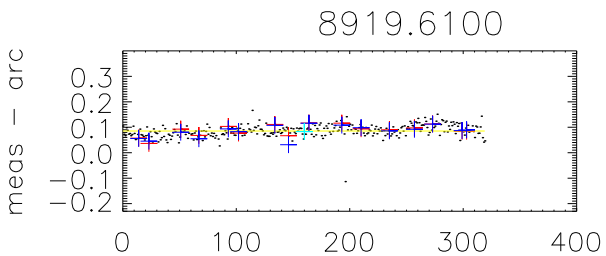

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

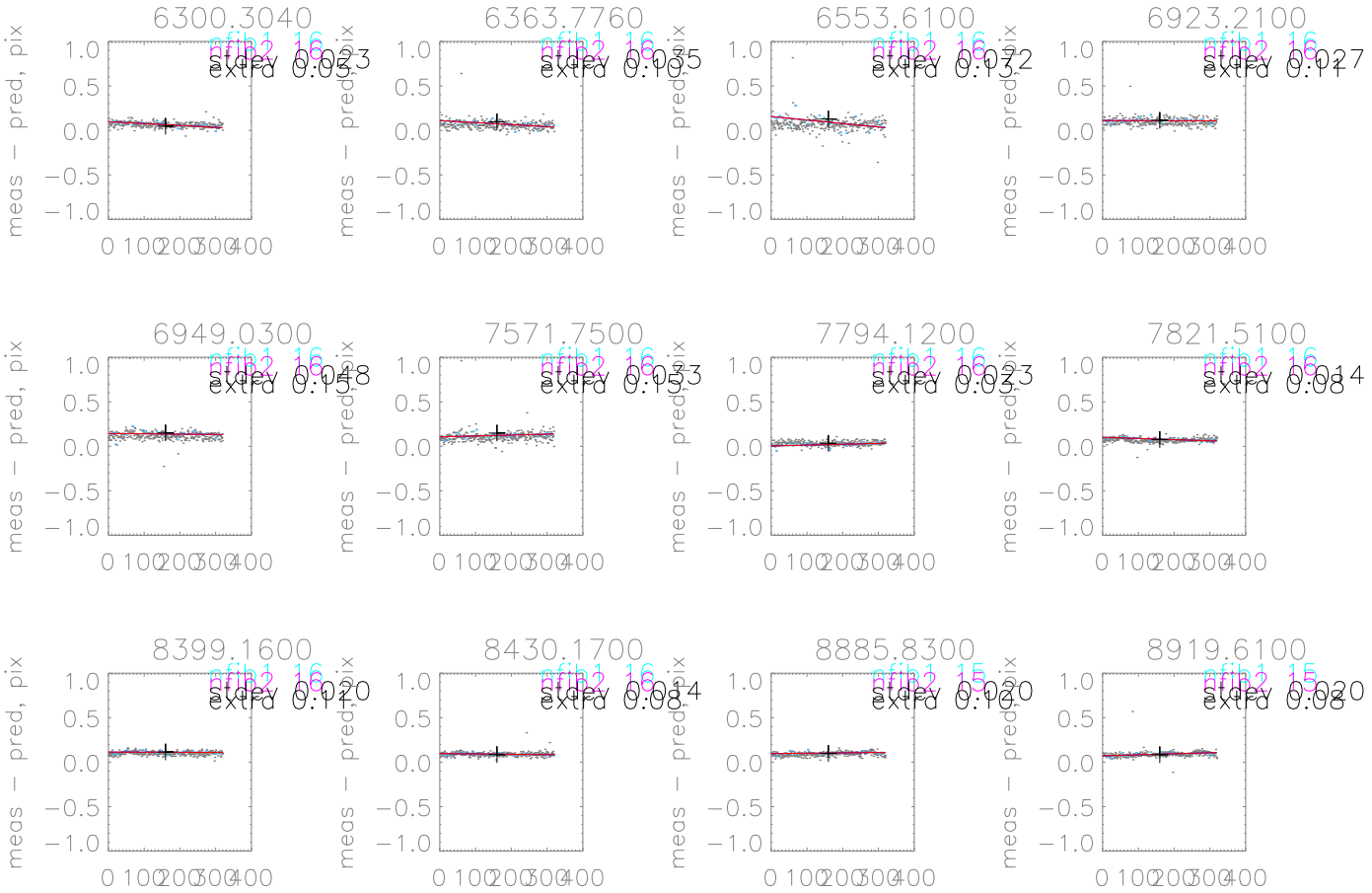

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

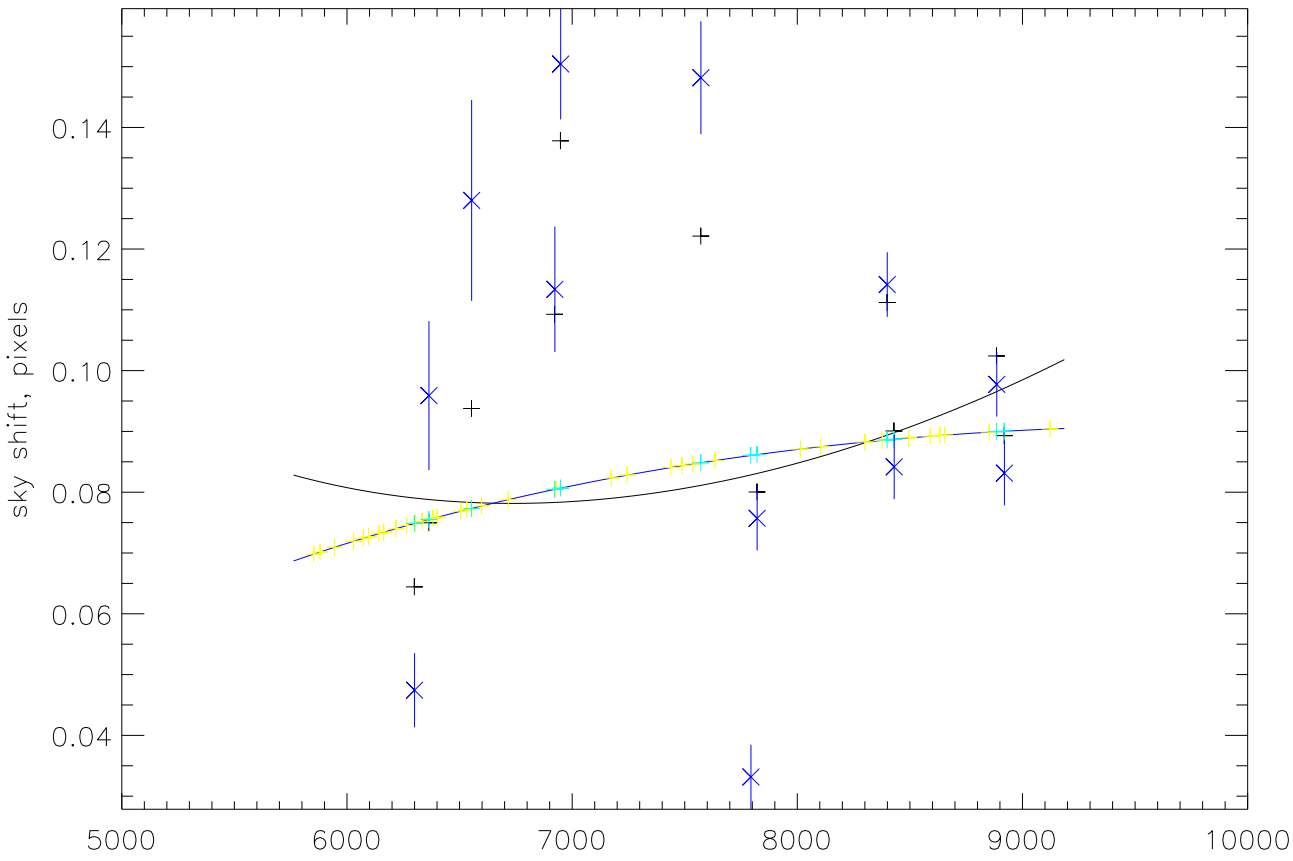

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

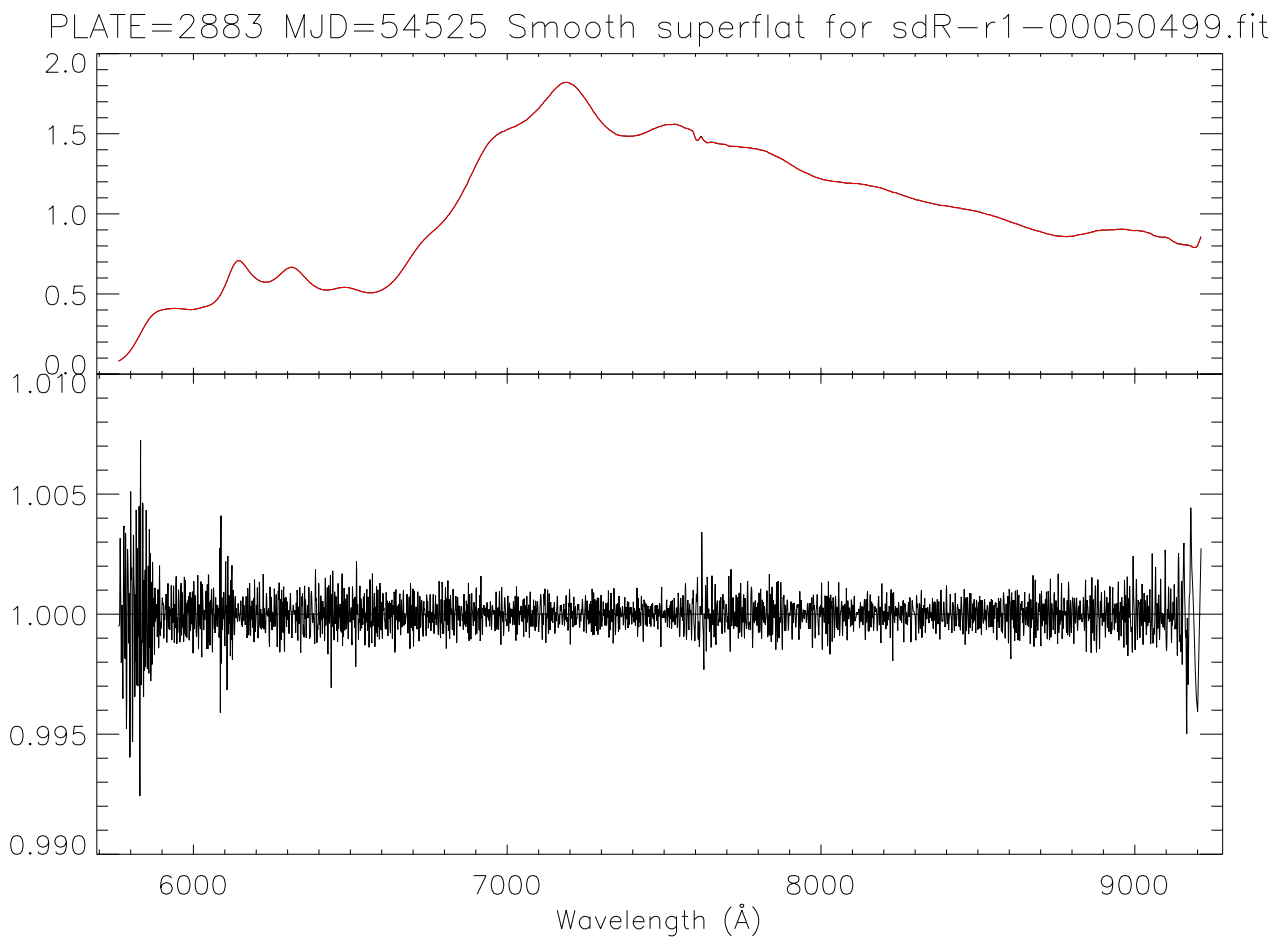

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

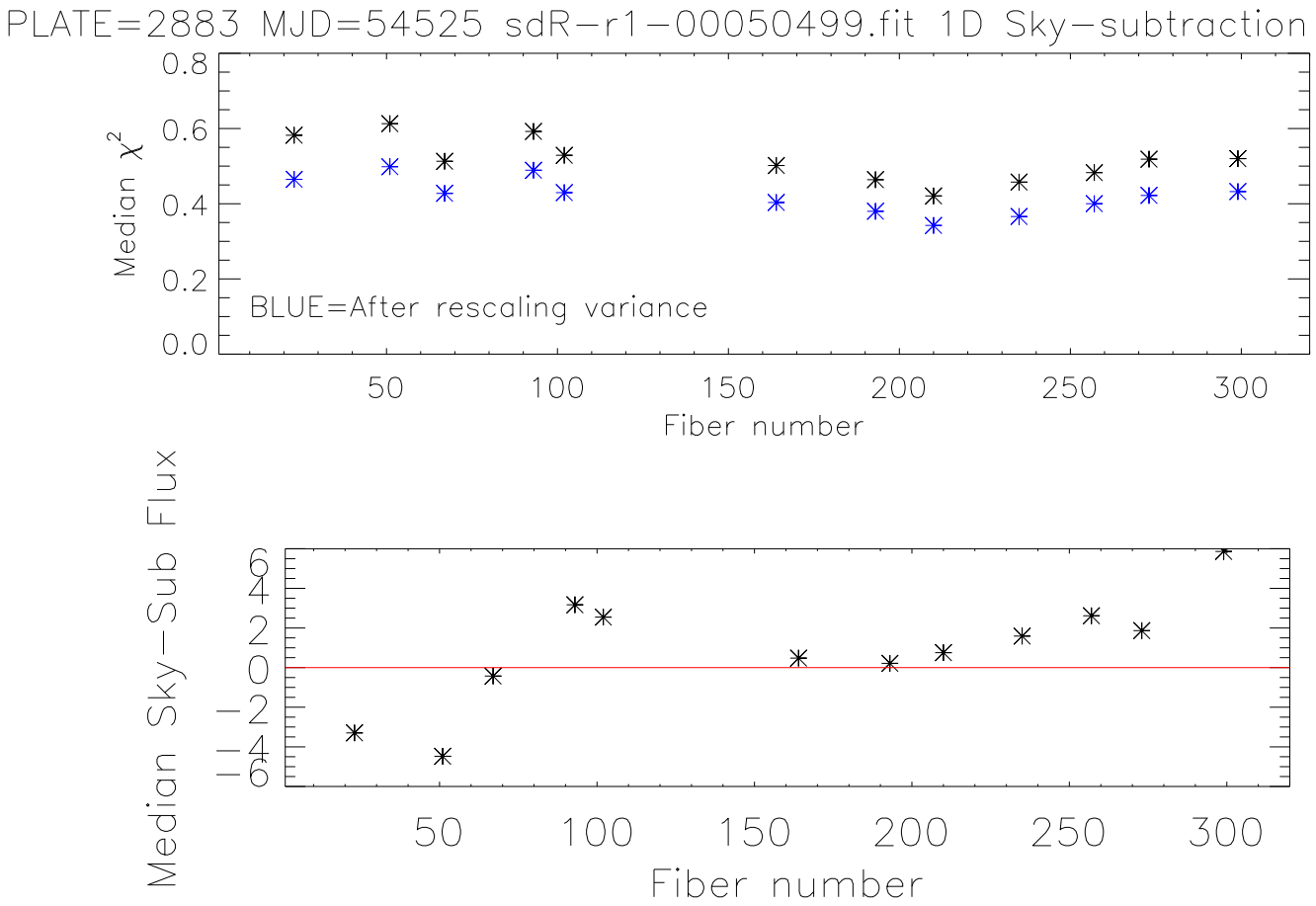

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

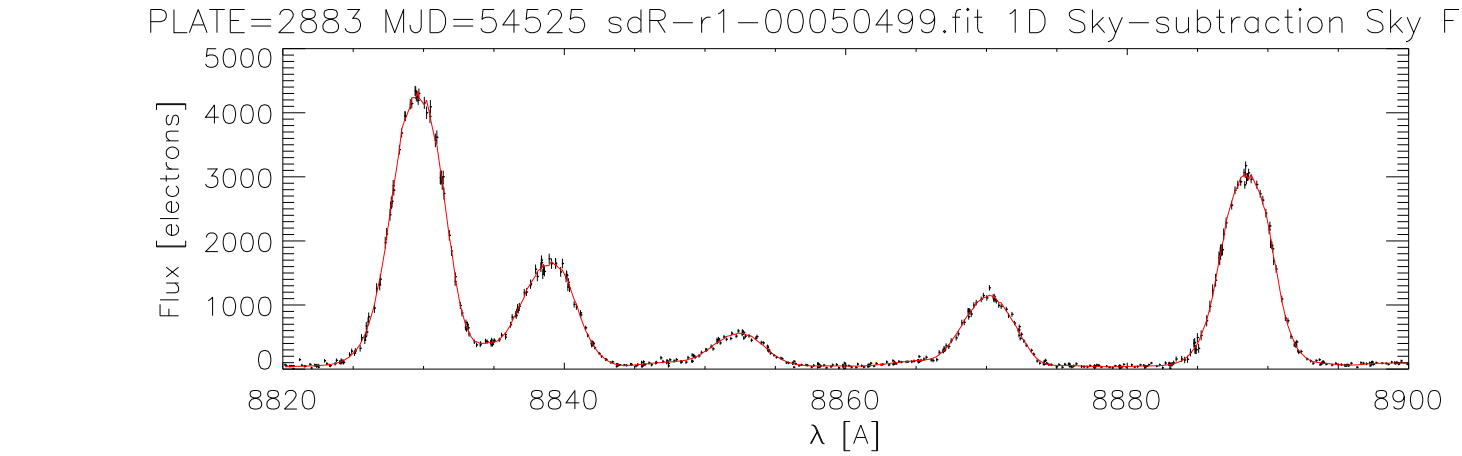

6300.3040
stdev 0.023
extra 0.05
6363.7760
stdev 0.025
extra 0.105
6553.6100
stdev 0.032
extra 0.13
6923.2100
stdev 0.027
extra 0.11
6949.0300
stdev 0.048
extra 0.158
7571.7500
stdev 0.053
extra 0.153
7794.1200
stdev 0.023
extra 0.03
7821.5100
stdev 0.014
extra 0.08
8399.1600
stdev 0.020
extra 0.11
8430.1700
stdev 0.014
extra 0.08
8885.8300
stdev 0.020
extra 0.10
8919.6100
stdev 0.020
extra 0.08
meas − pred, pix
mfb32 16
mfb31 16
mfb32 15
mfb31 15

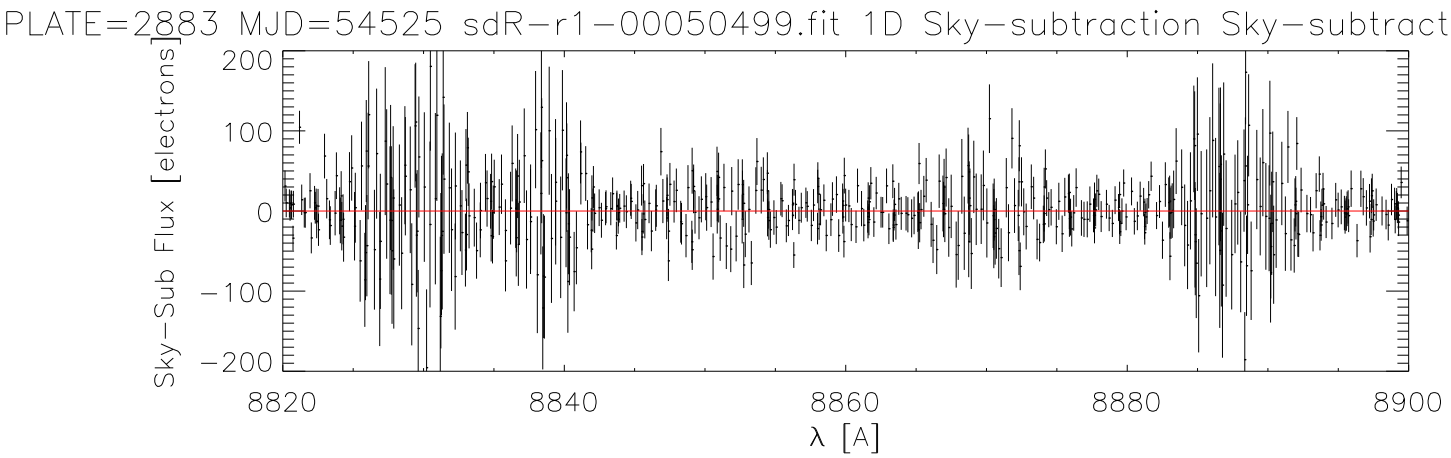

sky shift, pixels
0.14
0.12
0.10
0.08
0.06
0.04
5000
6000
7000
8000
9000
10000

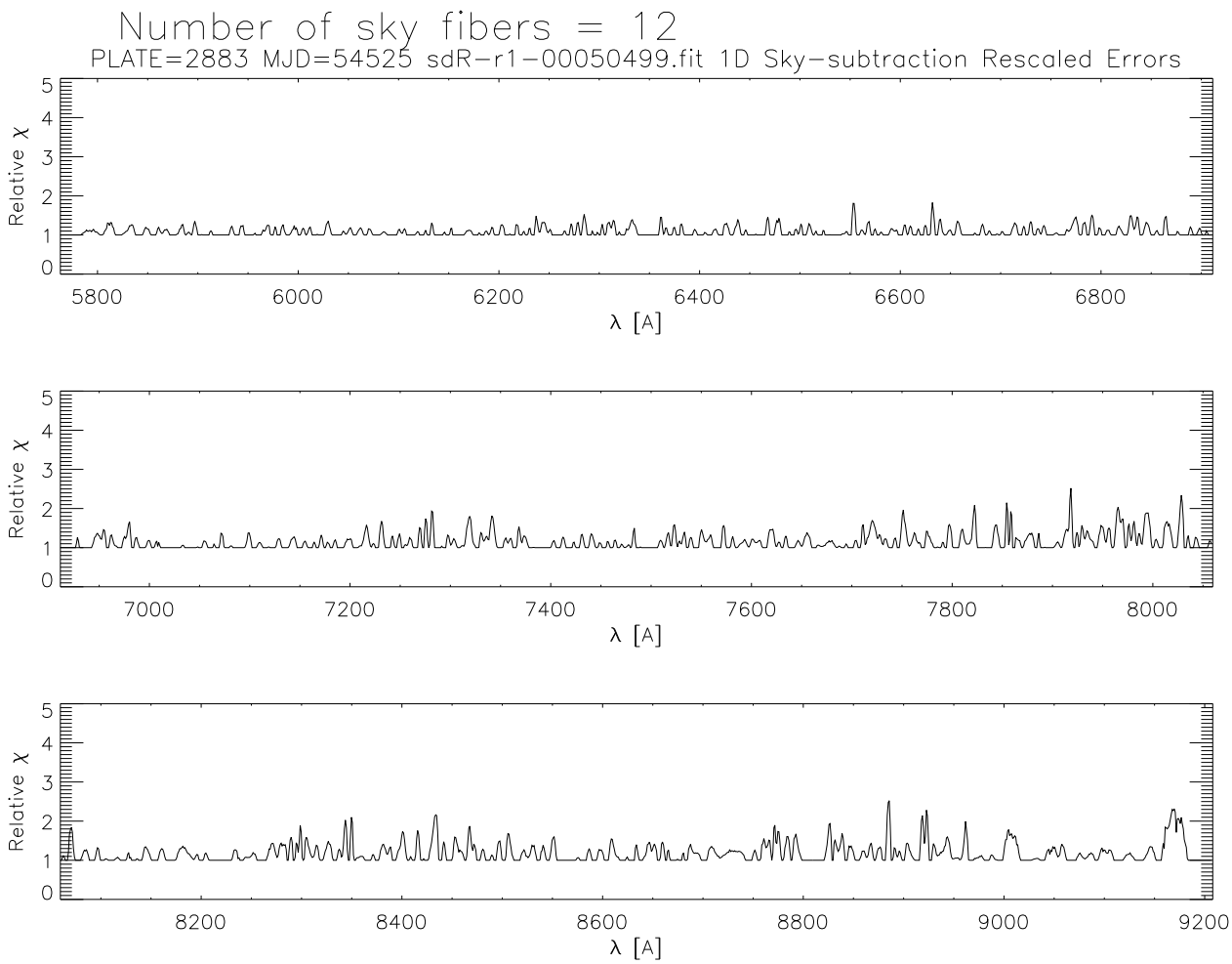
es= 0.0000

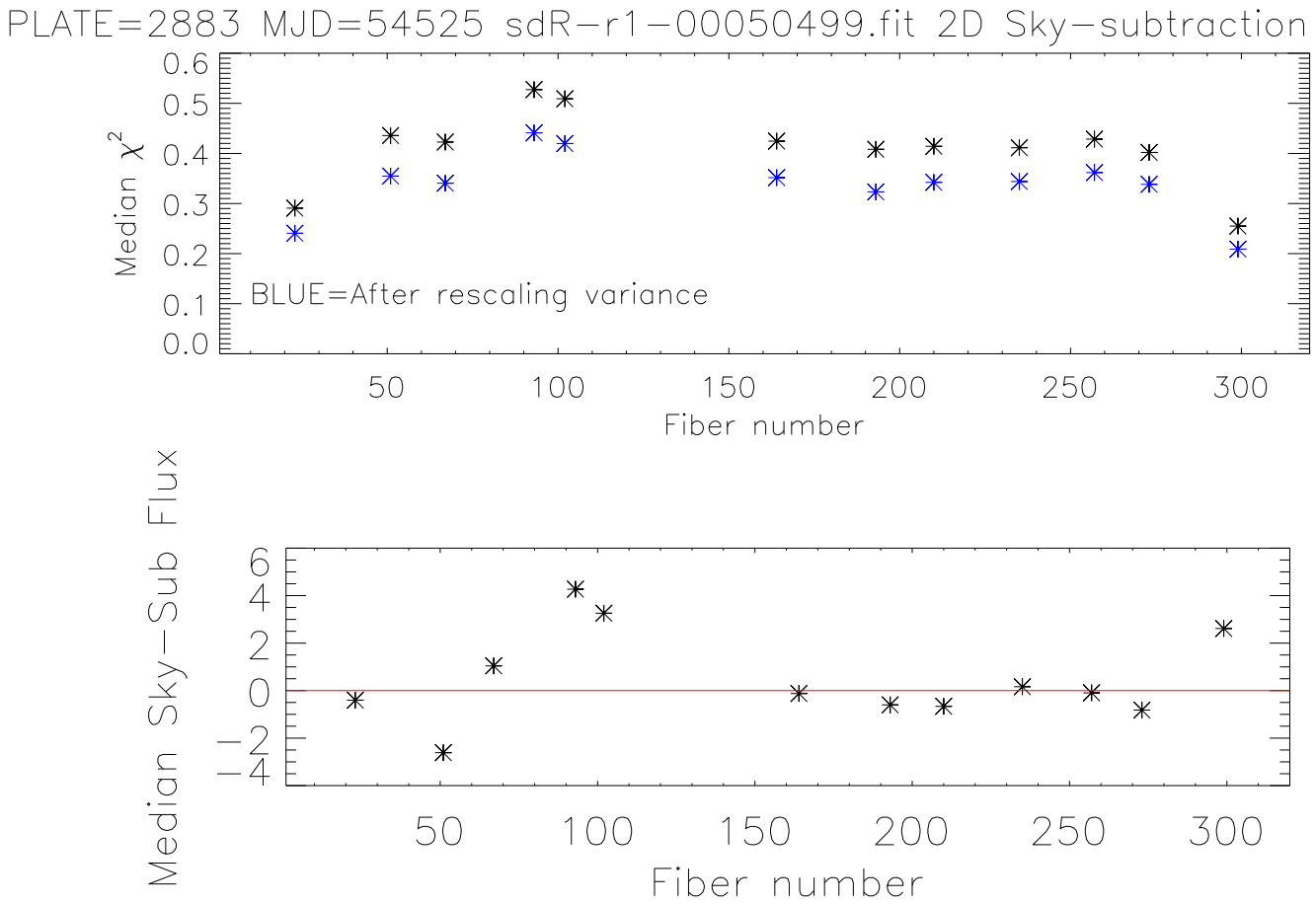

PLATE=2883 MJD=54525 Smooth superflat for sdR-r1-00050499.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

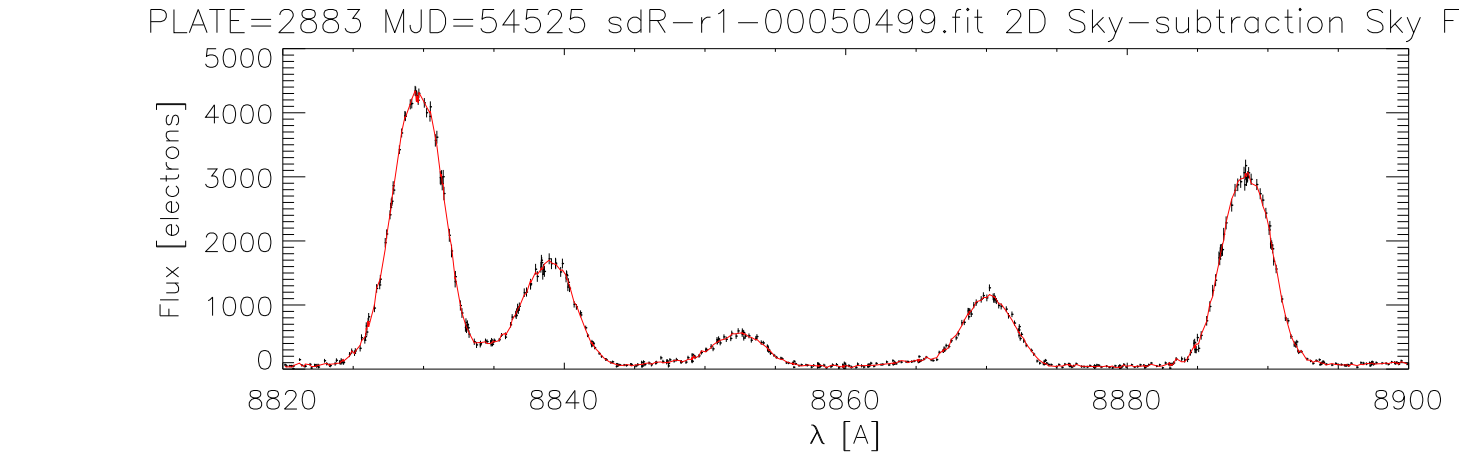

PLATE=2883 MJD=54525 sdR-r1-00050499.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

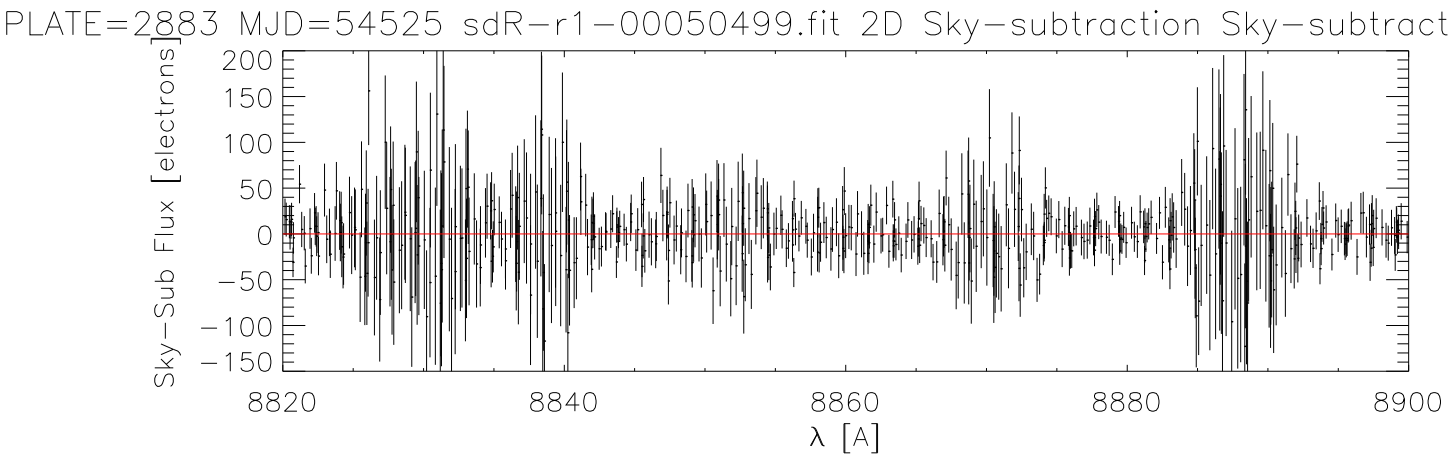

PLATE=2883 MJD=54525 sdR-r1-00050499.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

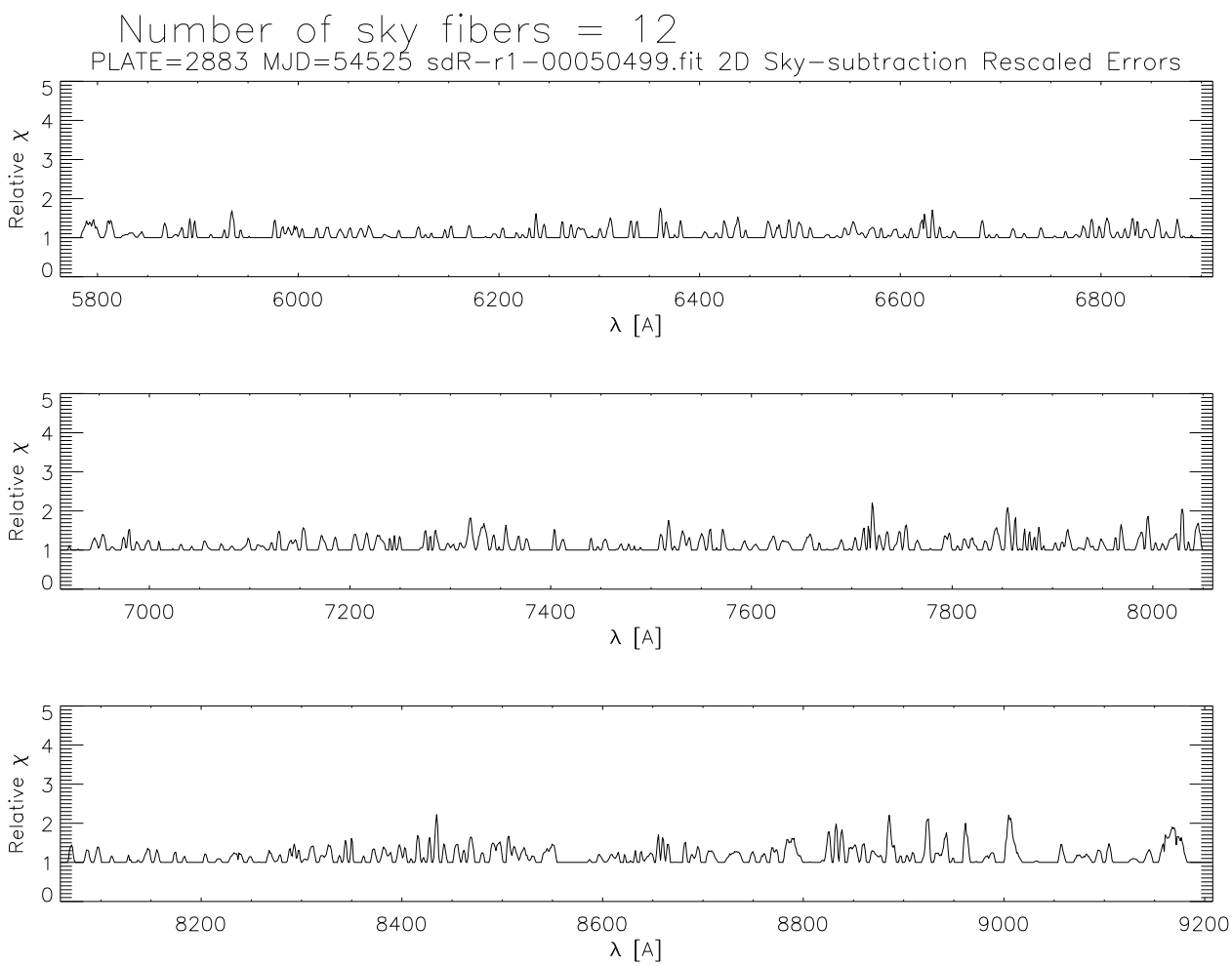

PLATE=2883 MJD=54525 sdR-r1-00050499.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

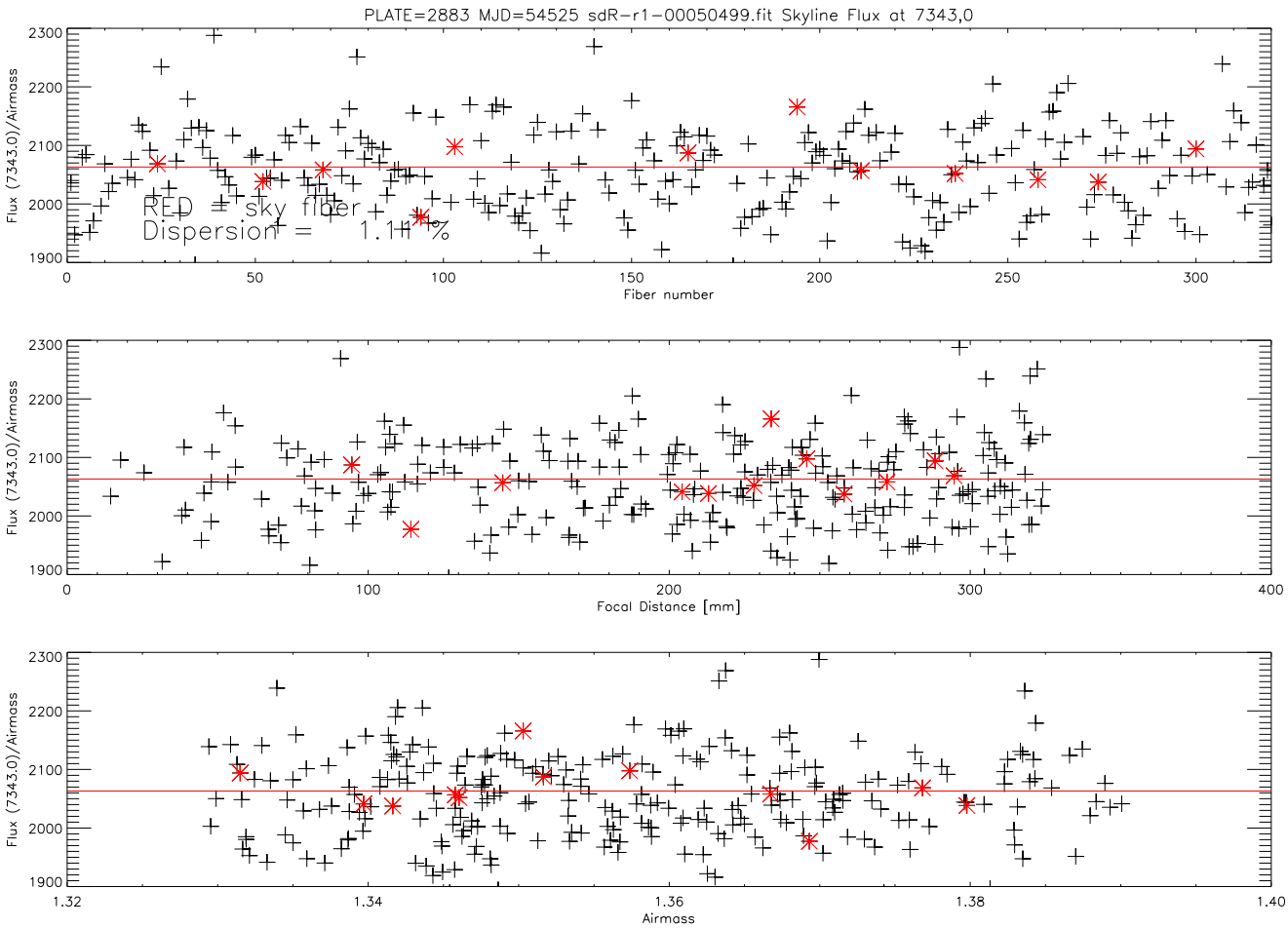

Number of sky fibers = 12
PLATE=2883 MJD=54525 sdR-r1-00050499.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

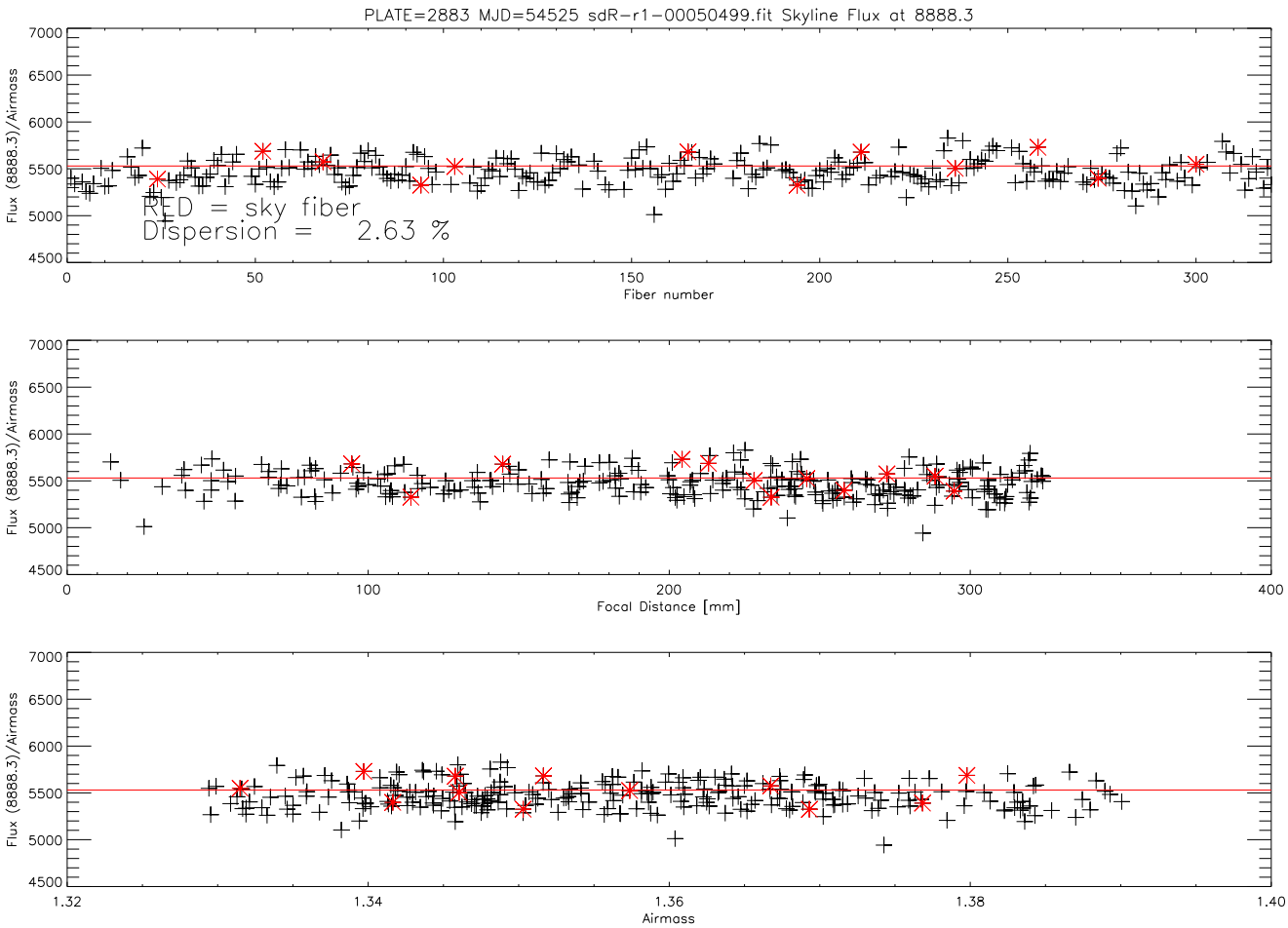

PLATE=2883 MJD=54525 sdR-r1-00050499.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

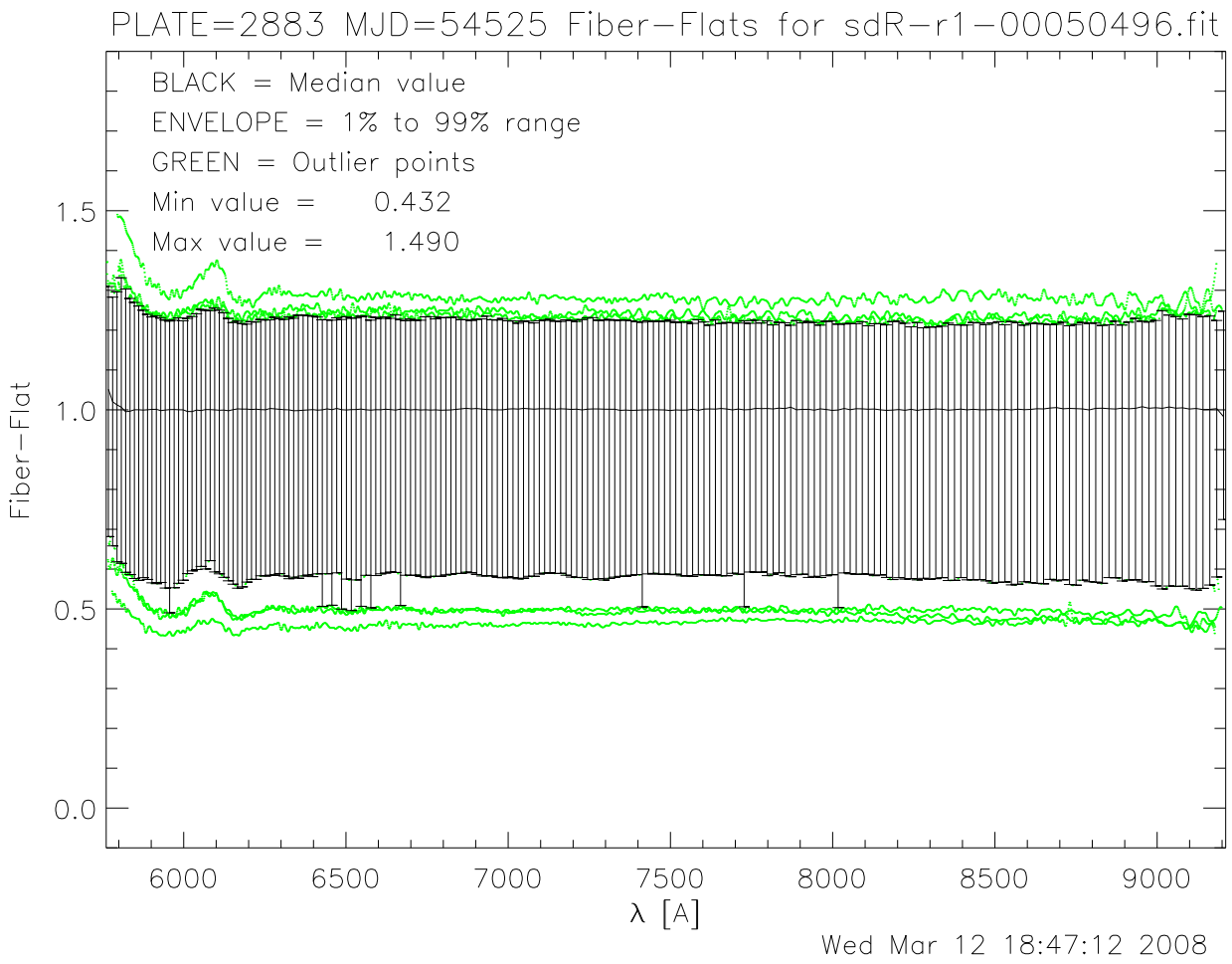

PLATE=2883 MJD=54525 sdR-r1-00050499.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

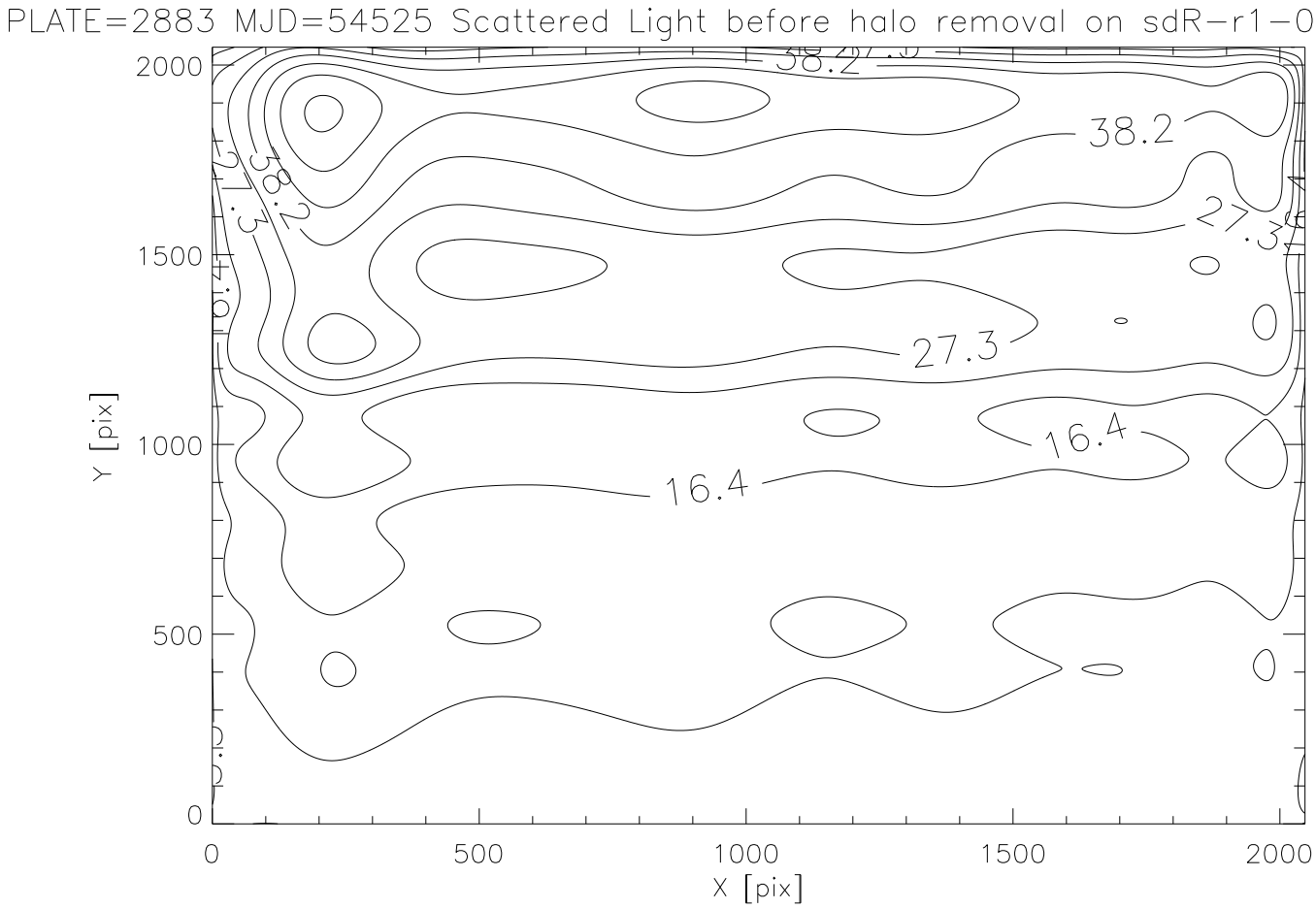

PLATE=2883 MJD=54525 sdR-r1-00050499.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

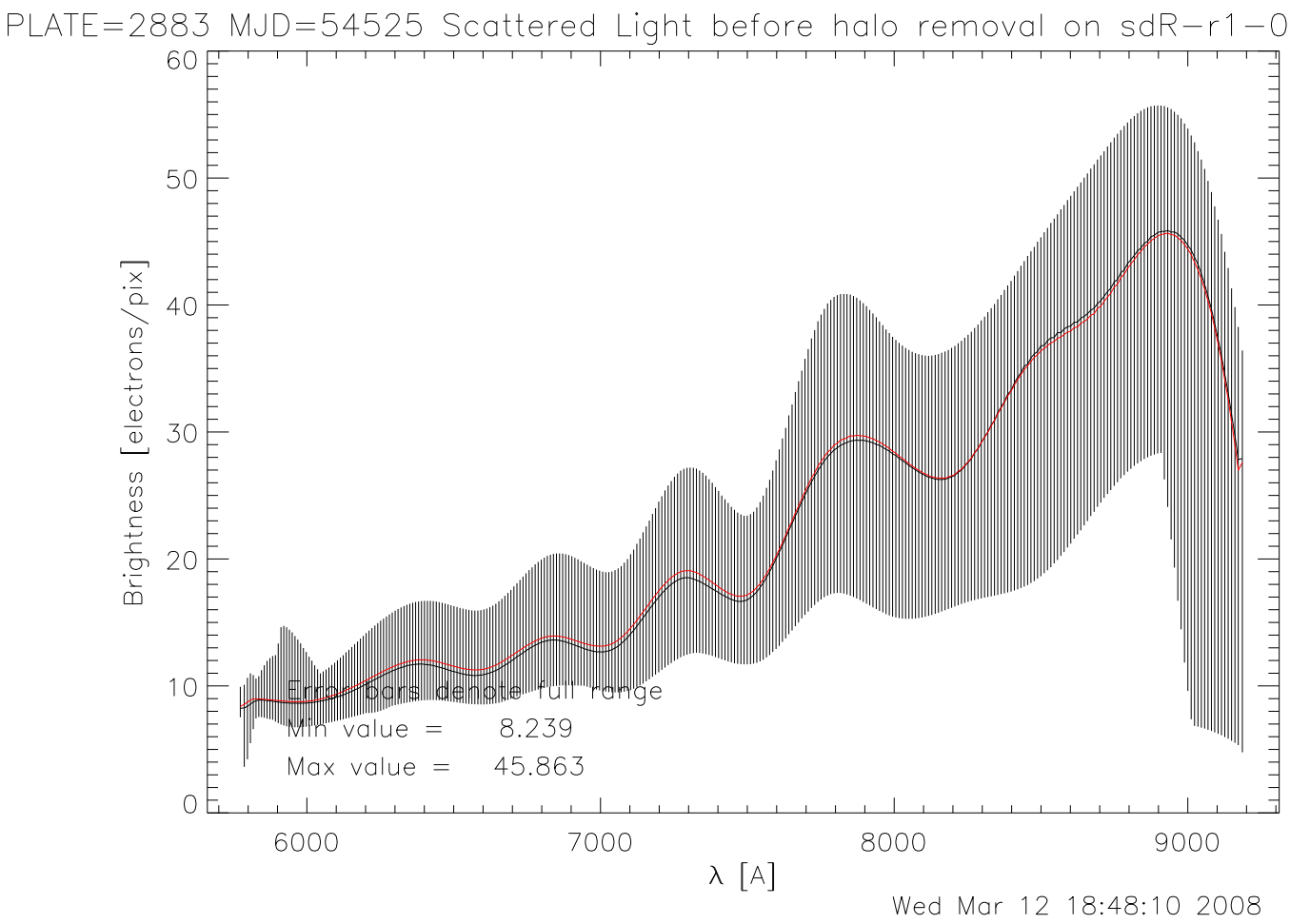

Number of sky fibers = 12
PLATE=2883 MJD=54525 sdR-r1-00050499.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

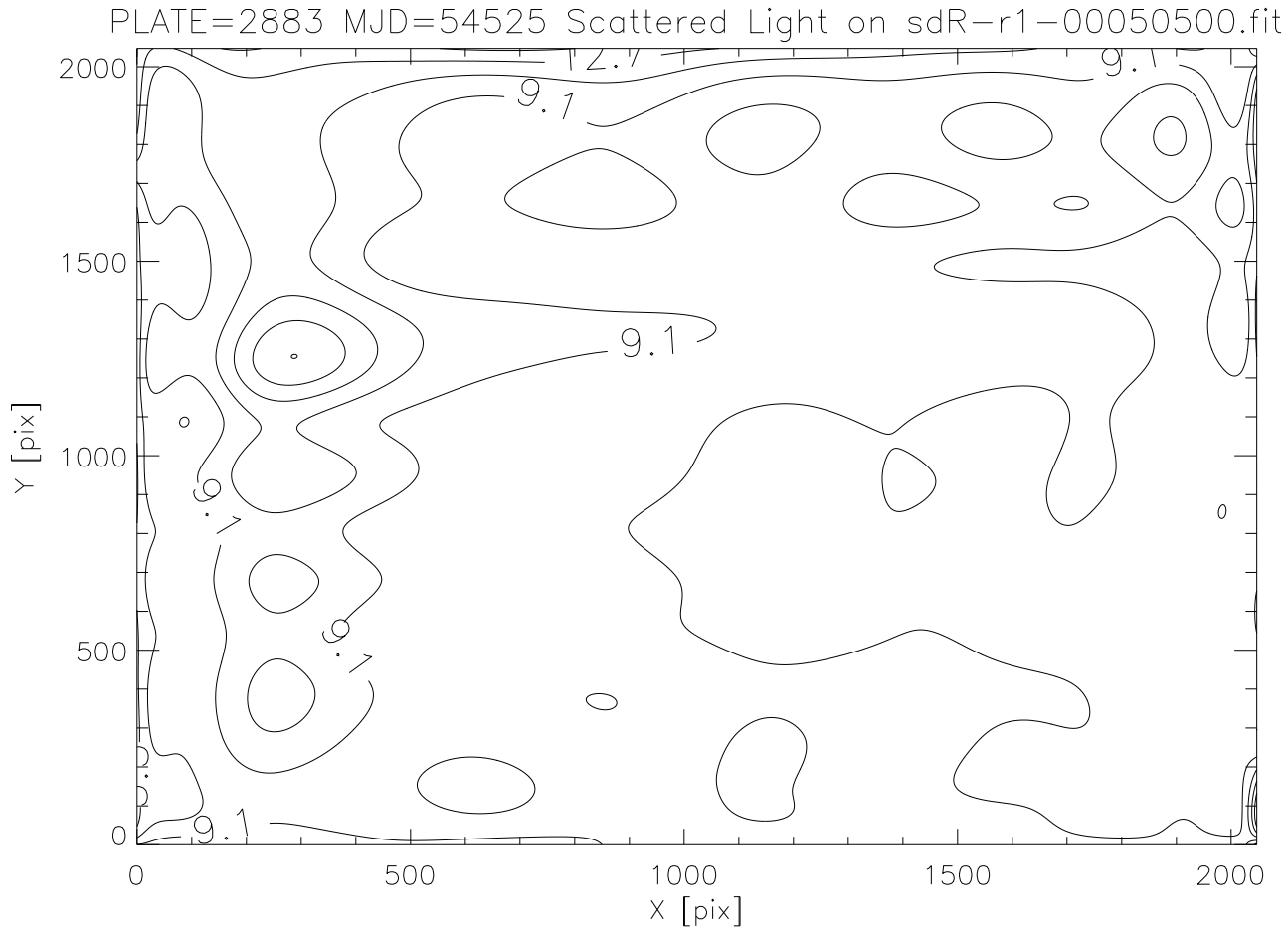

PLATE=2883 MJD=54525 sdR-r1-00050499.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.1 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

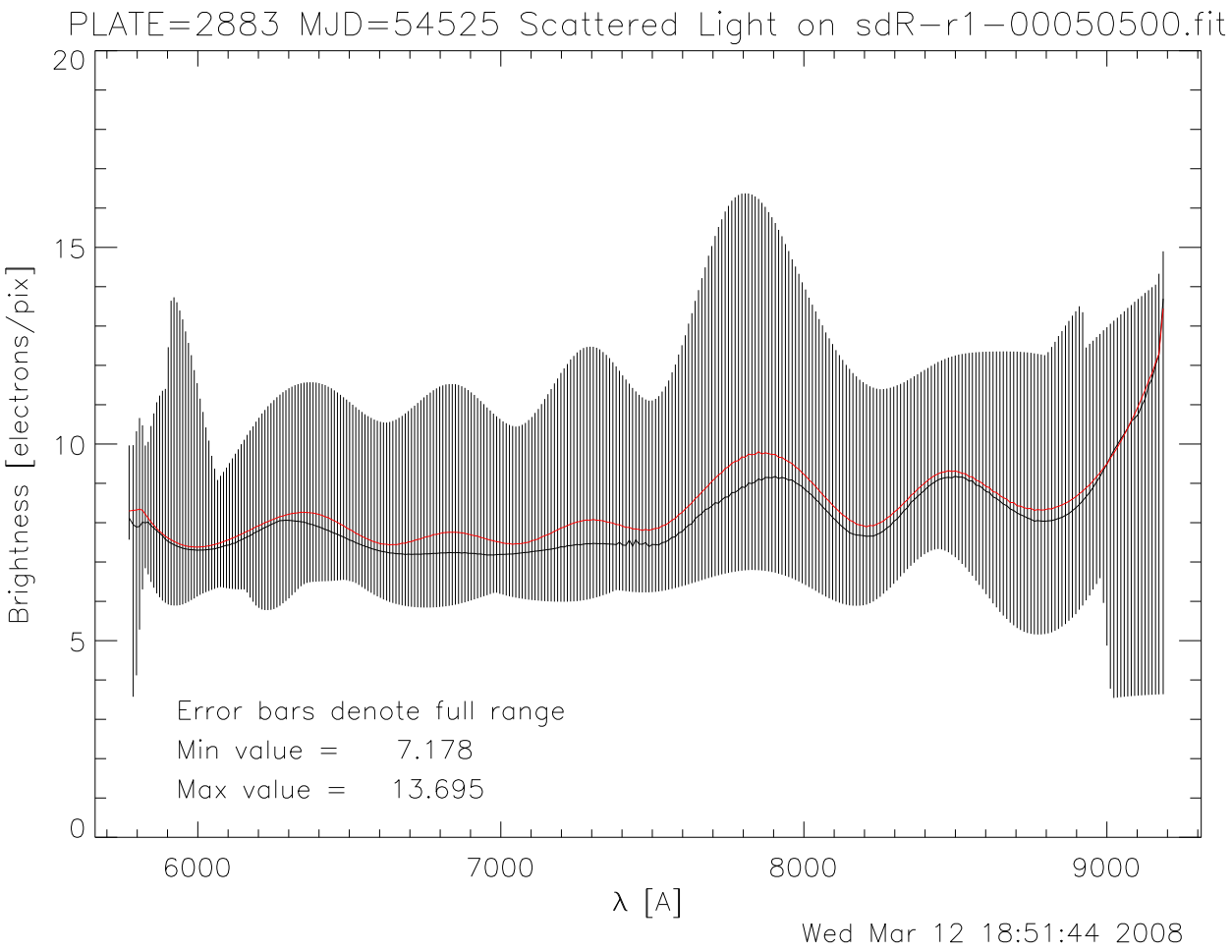

PLATE=2883 MJD=54525 sdR-r1-00050499.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.63 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

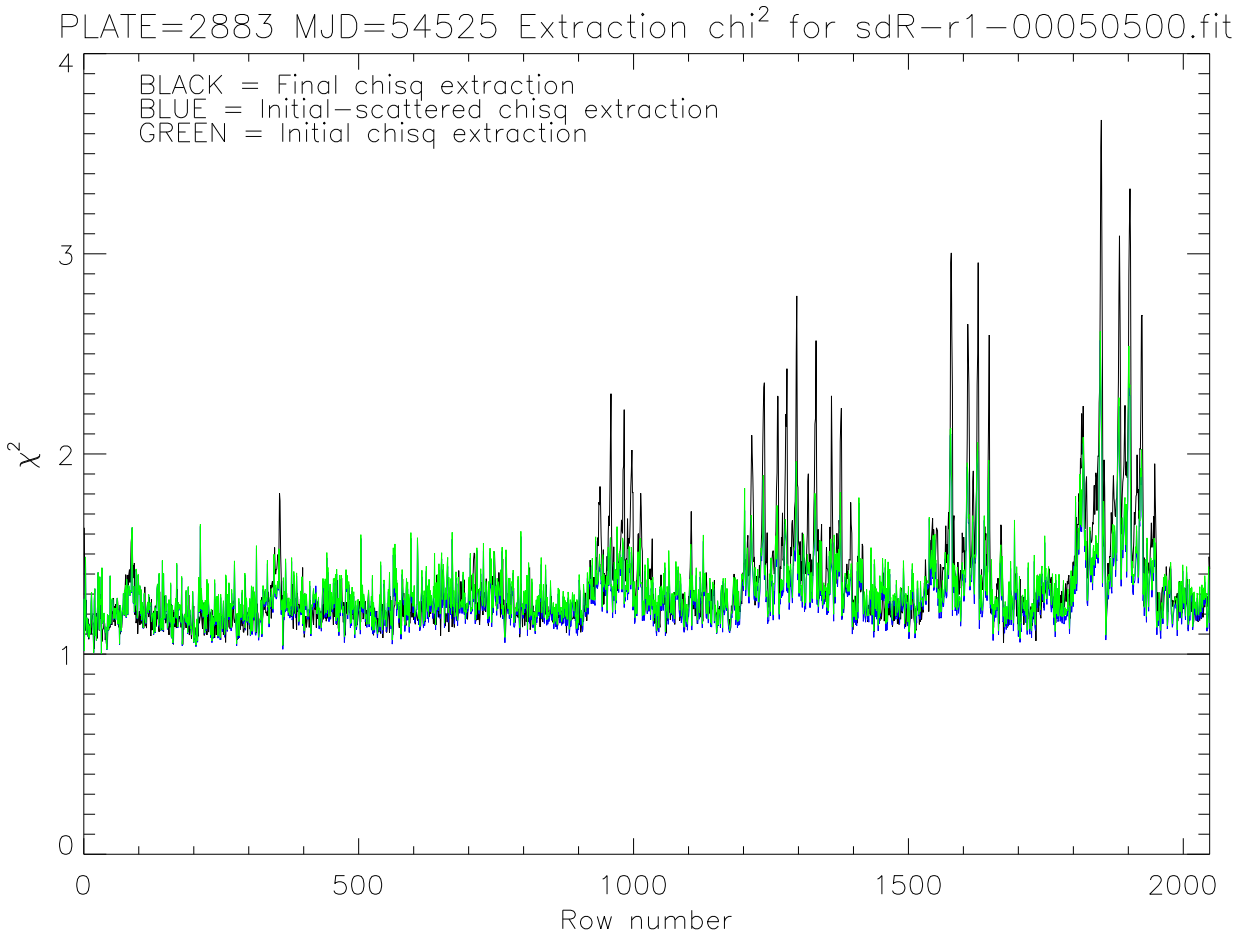

PLATE=2883 MJD=54525 Fiber−Flats for sdR−r1−00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.432
Max value = 1.490
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 18:47:12 2008

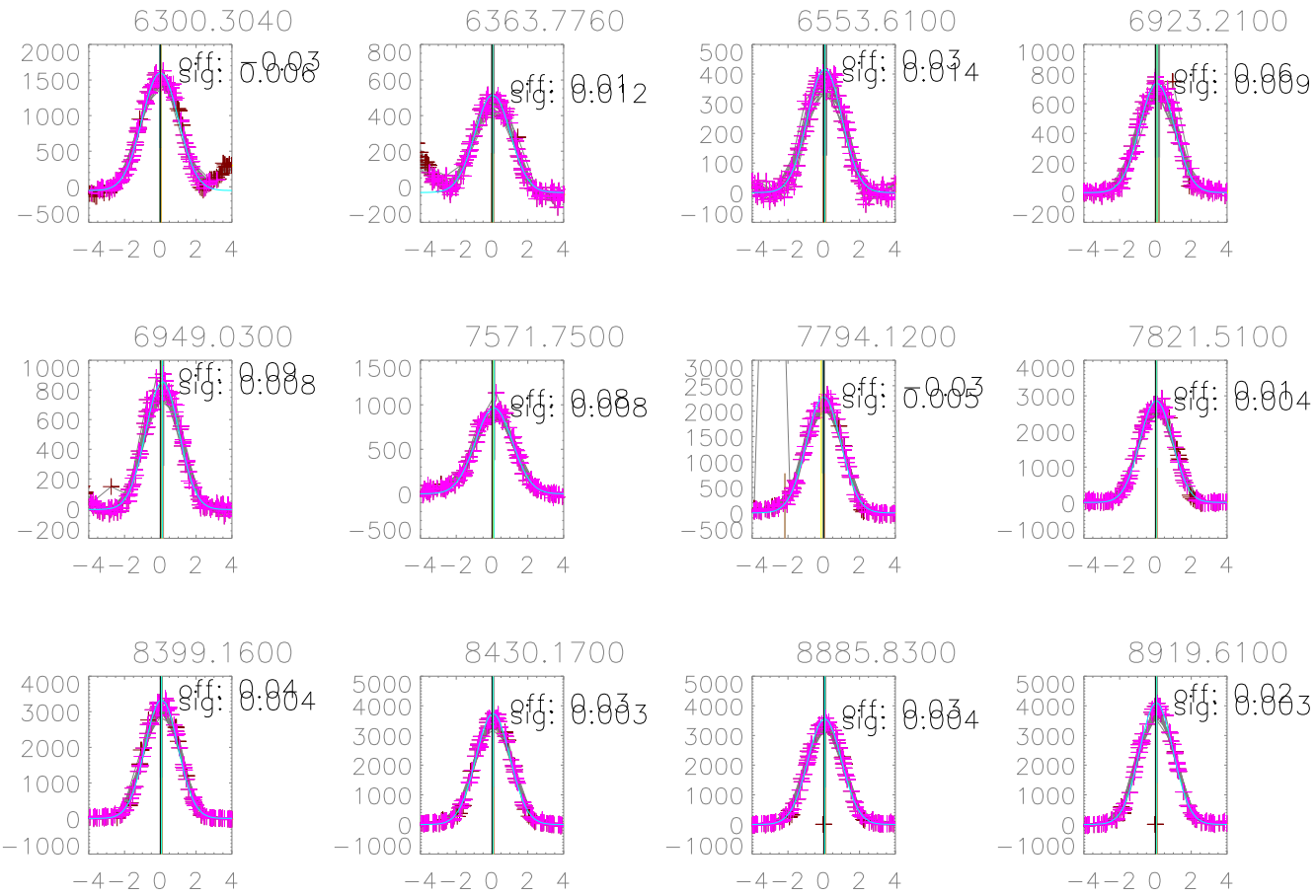

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r1-00050500.fi
38.2
27.3
16.4
0
Y [pix]
X [pix]
0
500
1000
1500
2000

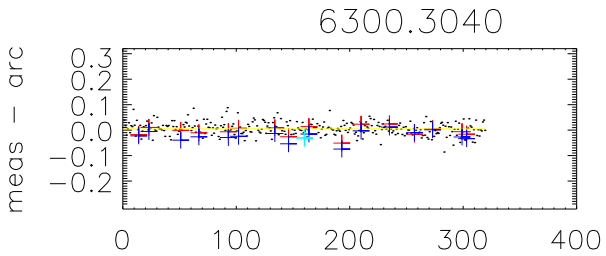

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r1-00050500.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.239
Max value = 45.863
Wed Mar 12 18:48:10 2008

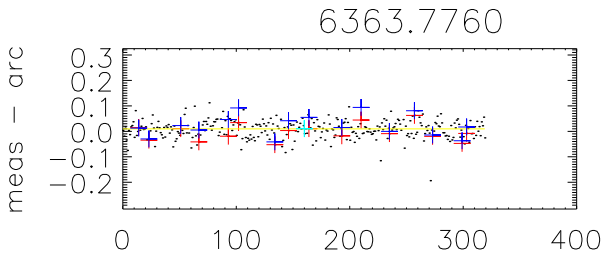

PLATE=2883 MJD=54525 Scattered Light on sdR-r1-00050500.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7
0

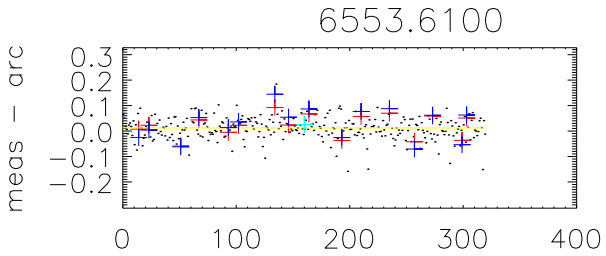

PLATE=2883 MJD=54525 Scattered Light on sdR-r1-00050500.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.178
Max value = 13.695
Wed Mar 12 18:51:44 2008

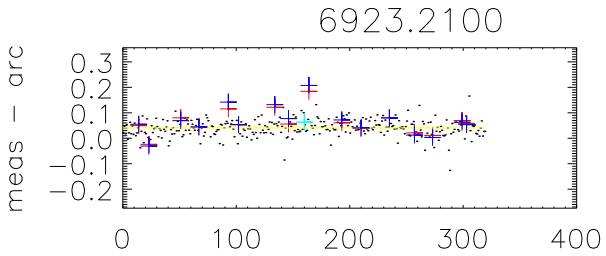

PLATE=2883 MJD=54525 Extraction chi^2 for sdR−r1−00050500.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

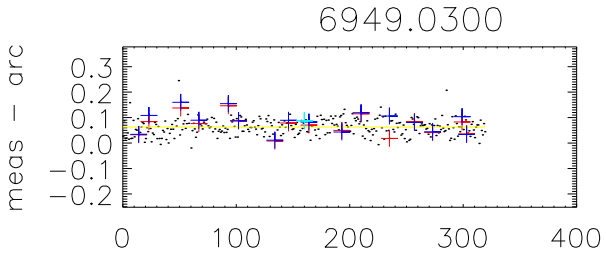

6300.3040
off: −0.03
sig: 0.006
6363.7760
off: 0.01
sig: 0.012
6553.6100
off: 0.03
sig: 0.014
6923.2100
off: 0.06
sig: 0.009
6949.0300
off: 0.09
sig: 0.008
7571.7500
off: 0.08
sig: 0.008
7794.1200
off: −0.03
sig: 0.005
7821.5100
off: 0.01
sig: 0.004
8399.1600
off: 0.04
sig: 0.004
8430.1700
off: 0.03
sig: 0.003
8885.8300
off: 0.03
sig: 0.004
8919.6100
off: 0.02
sig: 0.003

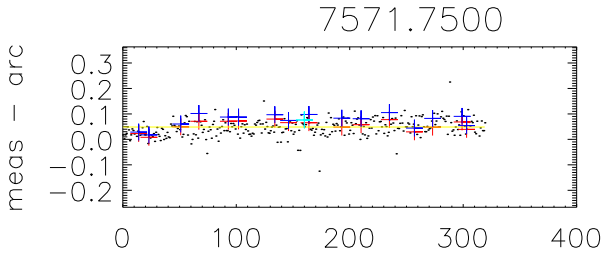

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

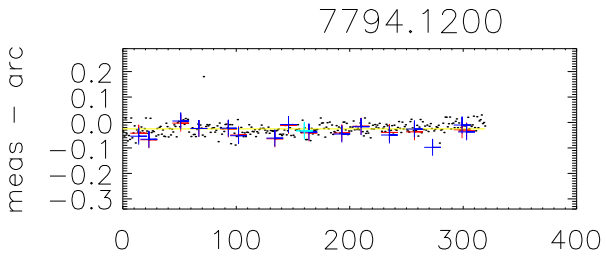

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

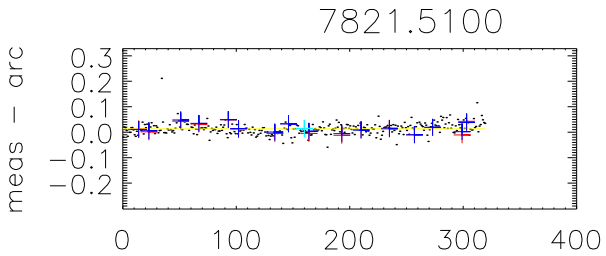

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

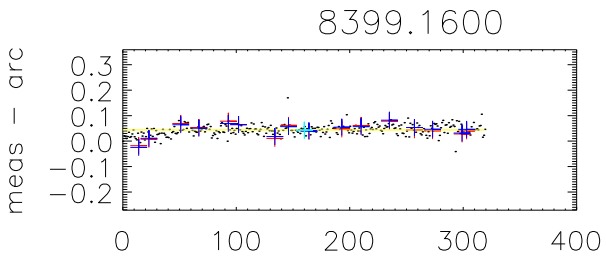

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

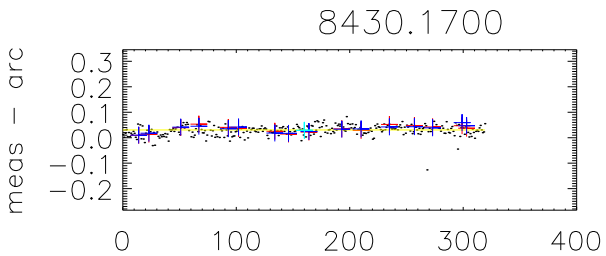

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

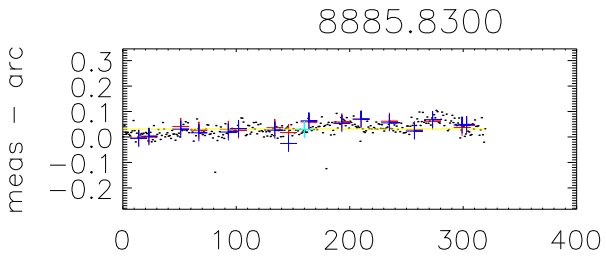

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

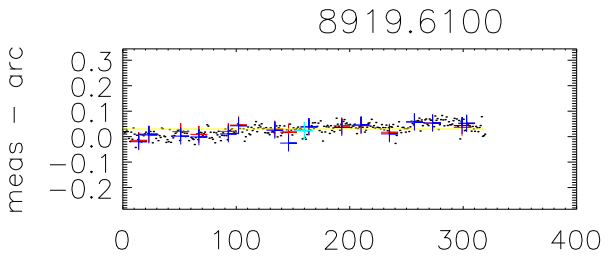

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

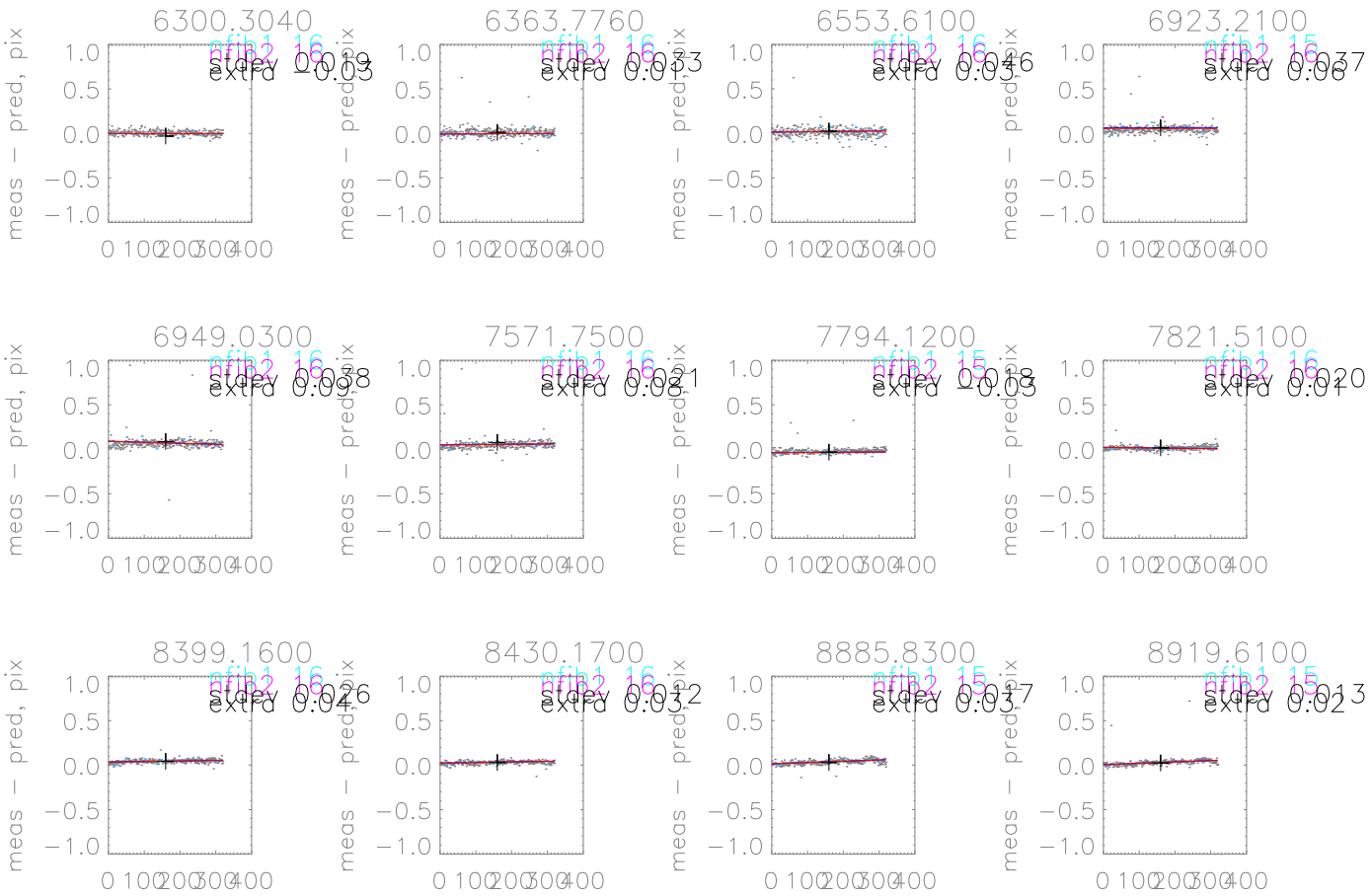

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

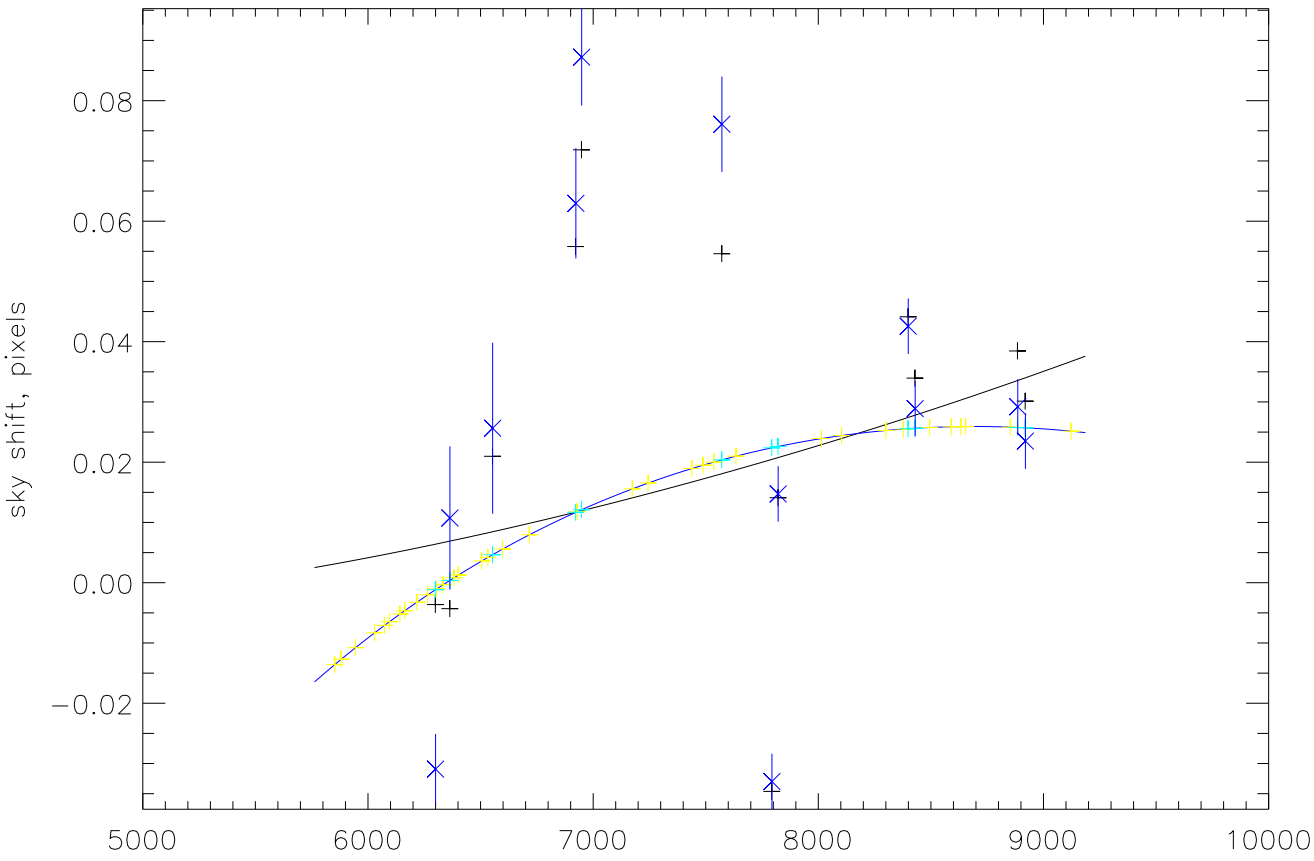

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

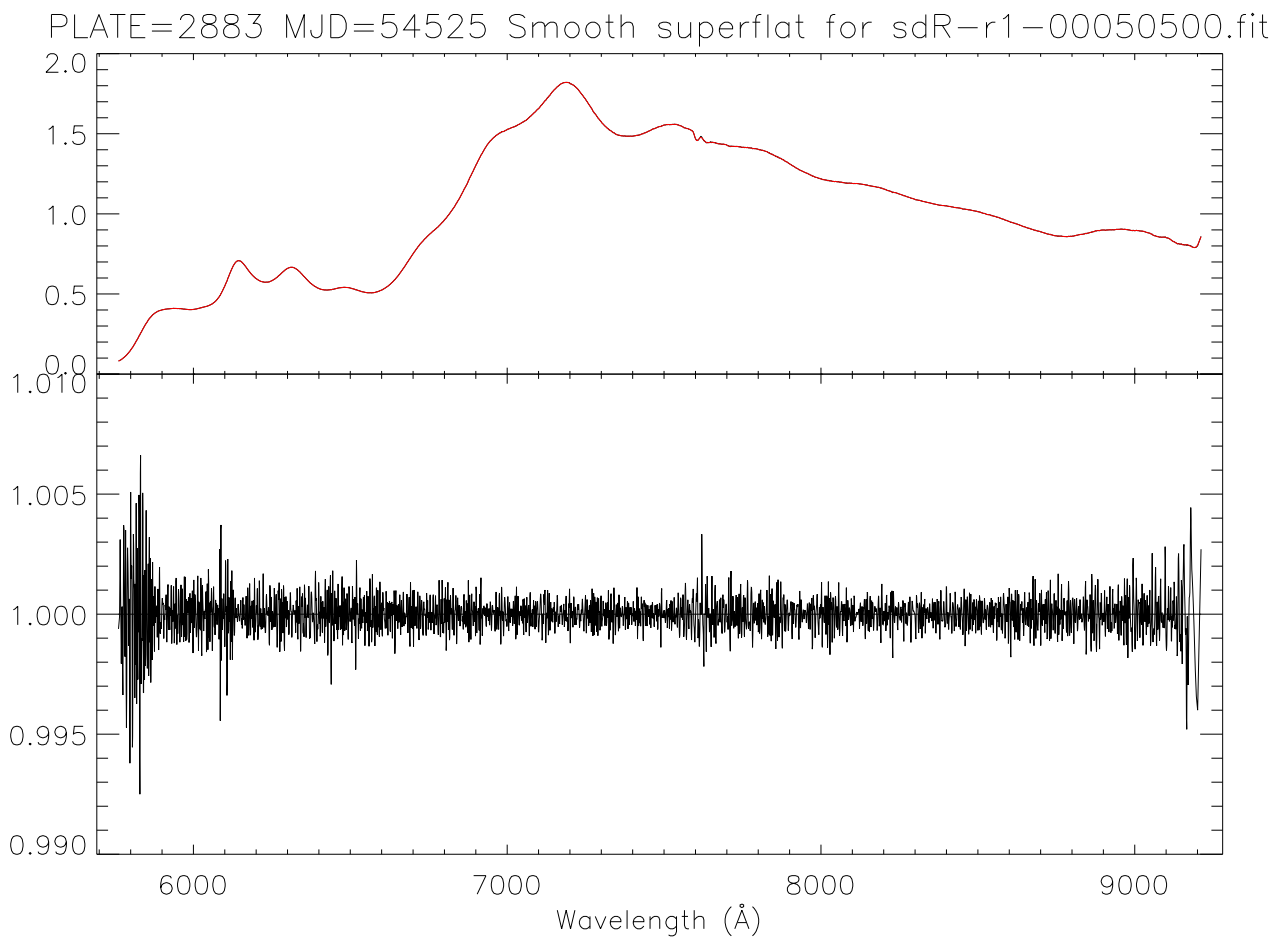

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

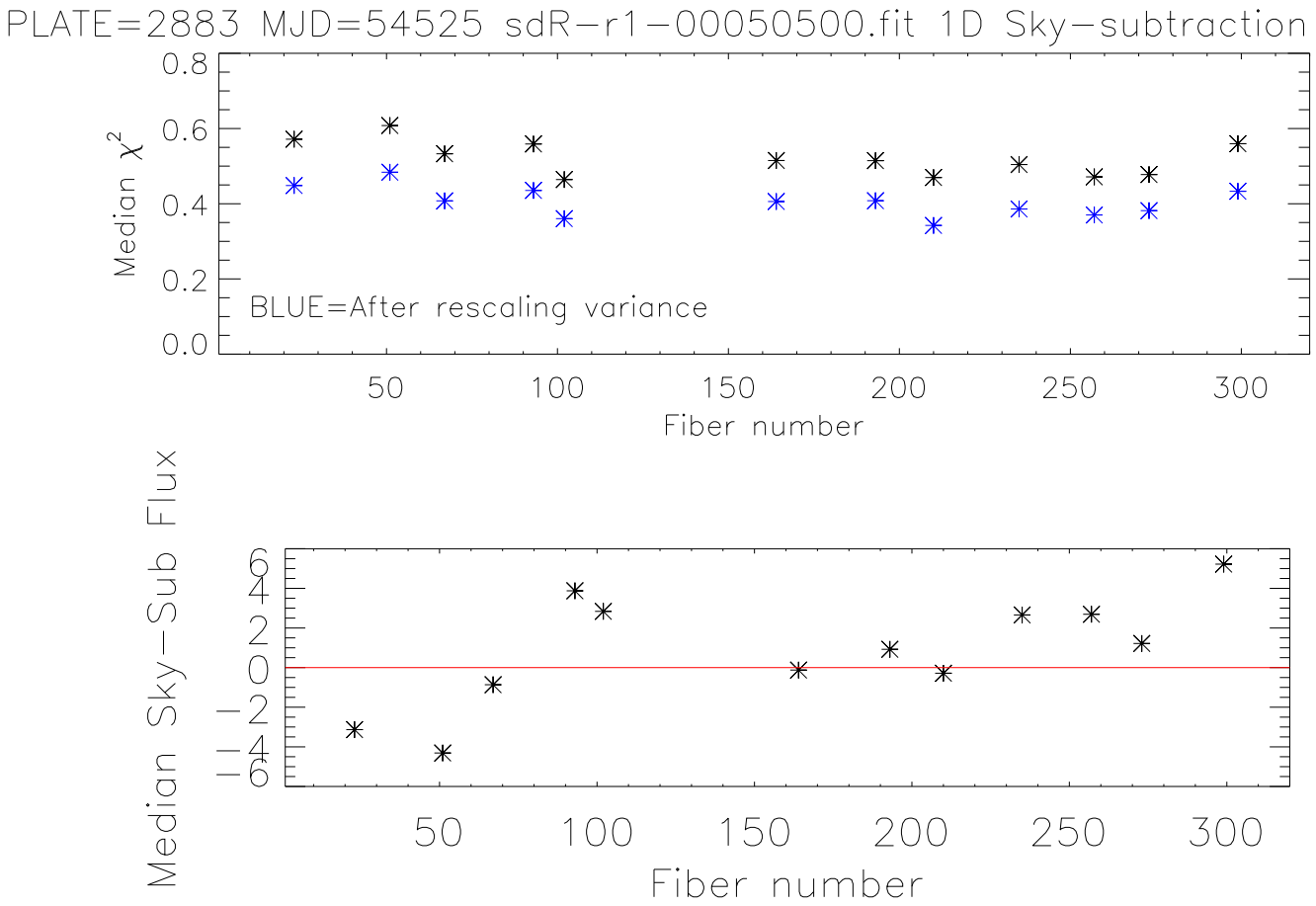

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


6300.3040
stdev 0.019
extra −0.03
6363.7760
stdev 0.033
extra 0.01
6553.6100
stdev 0.046
extra 0.03
6923.2100
stdev 0.037
extra 0.00
6949.0300
stdev 0.038
extra 0.00
7571.7500
stdev 0.021
extra 0.00
7794.1200
stdev 0.018
extra −0.03
7821.5100
stdev 0.020
extra 0.01
8399.1600
stdev 0.026
extra 0.04
8430.1700
stdev 0.032
extra 0.03
8885.8300
stdev 0.017
extra 0.03
8919.6100
stdev 0.013
extra 0.02
meas − pred, pix
mfb1 16
mfb2 16
mfb2 15
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

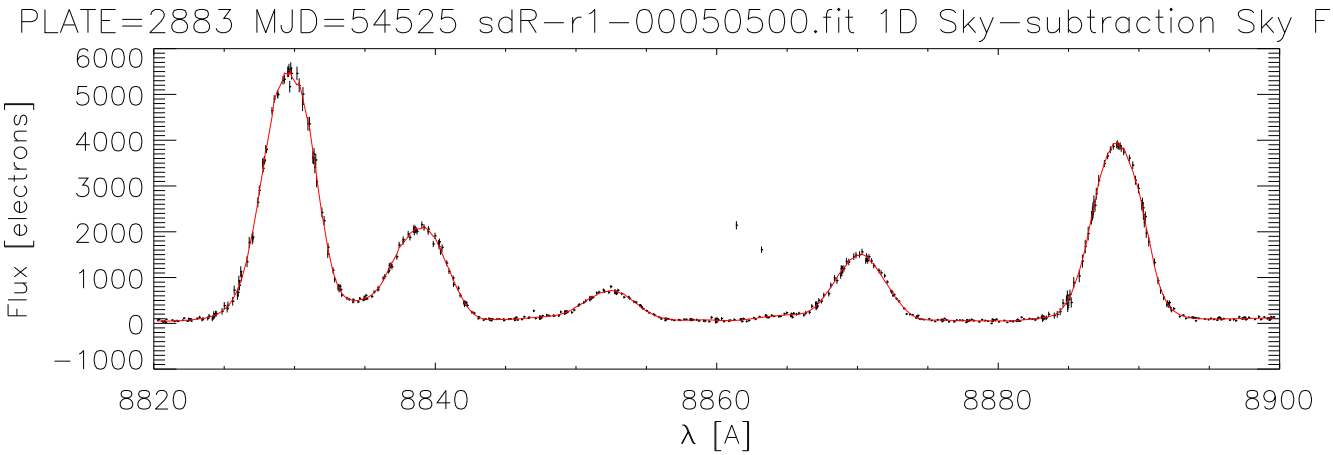

sky shift, pixels
0.08
0.06
0.04
0.02
0.00
−0.02
5000
6000
7000
8000
9000
10000

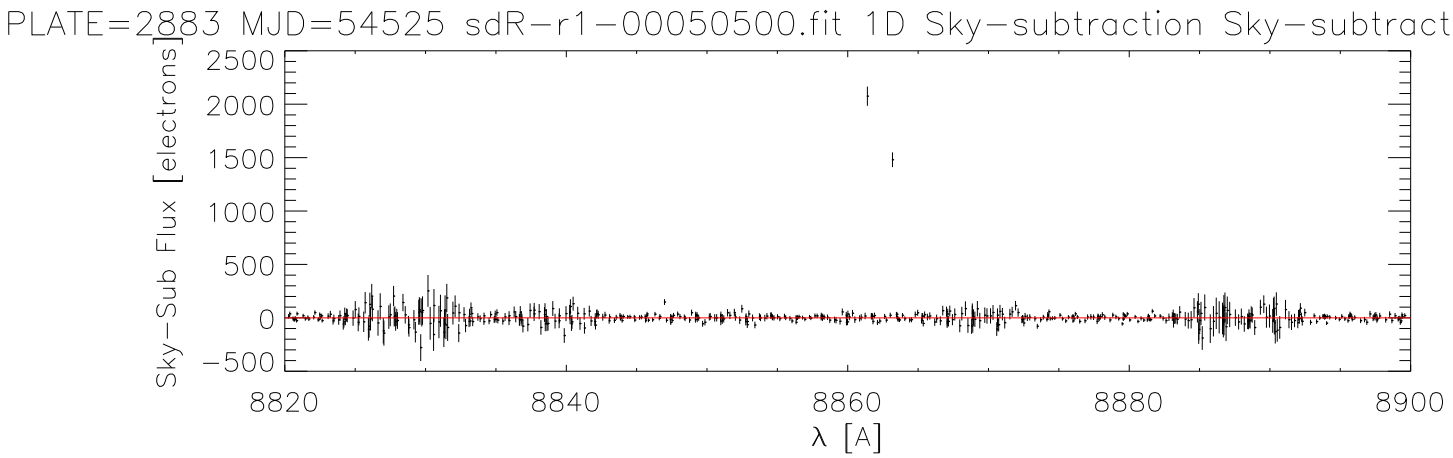
es= 0.0000

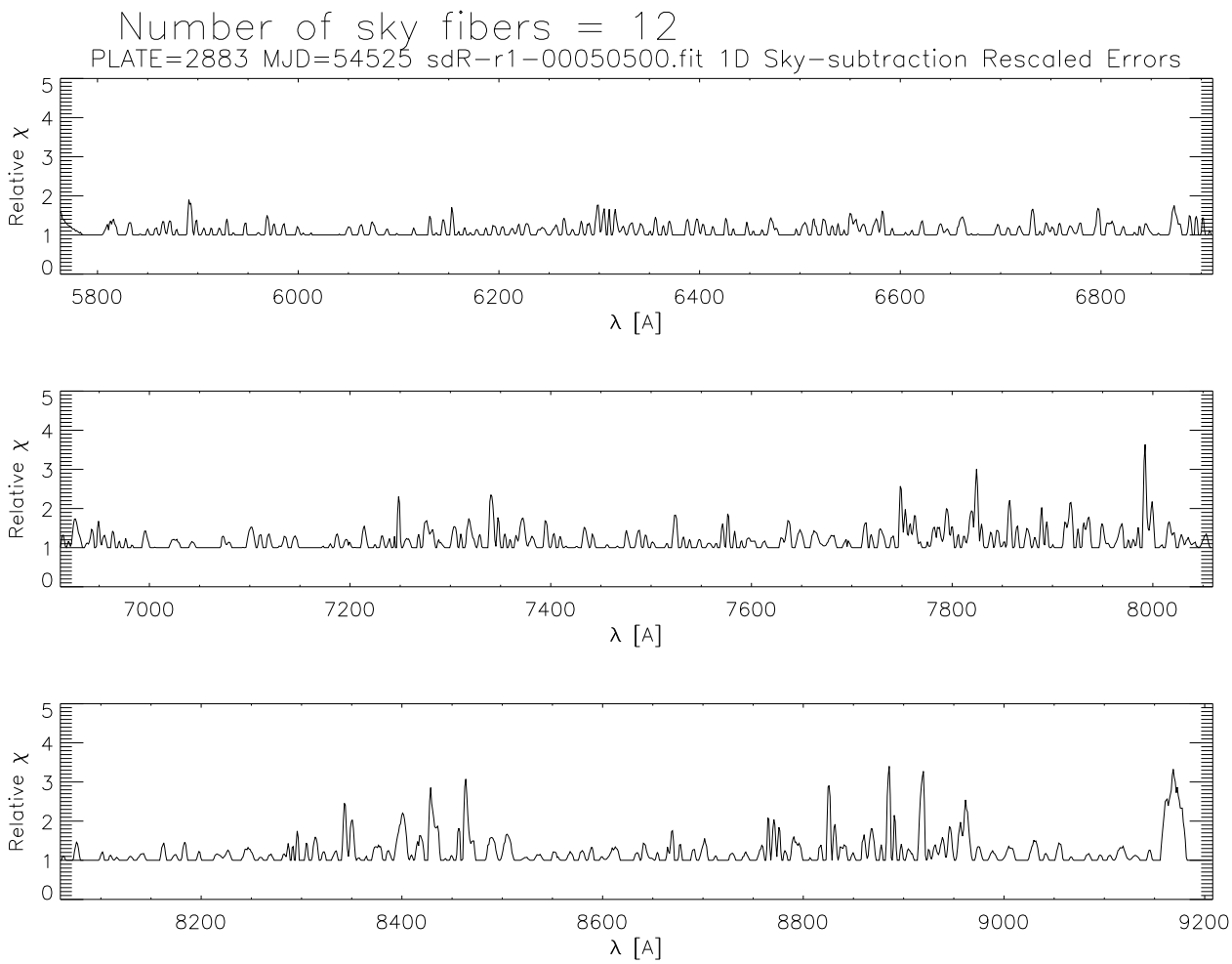

PLATE=2883 MJD=54525 Smooth superflat for sdR-r1-00050500.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

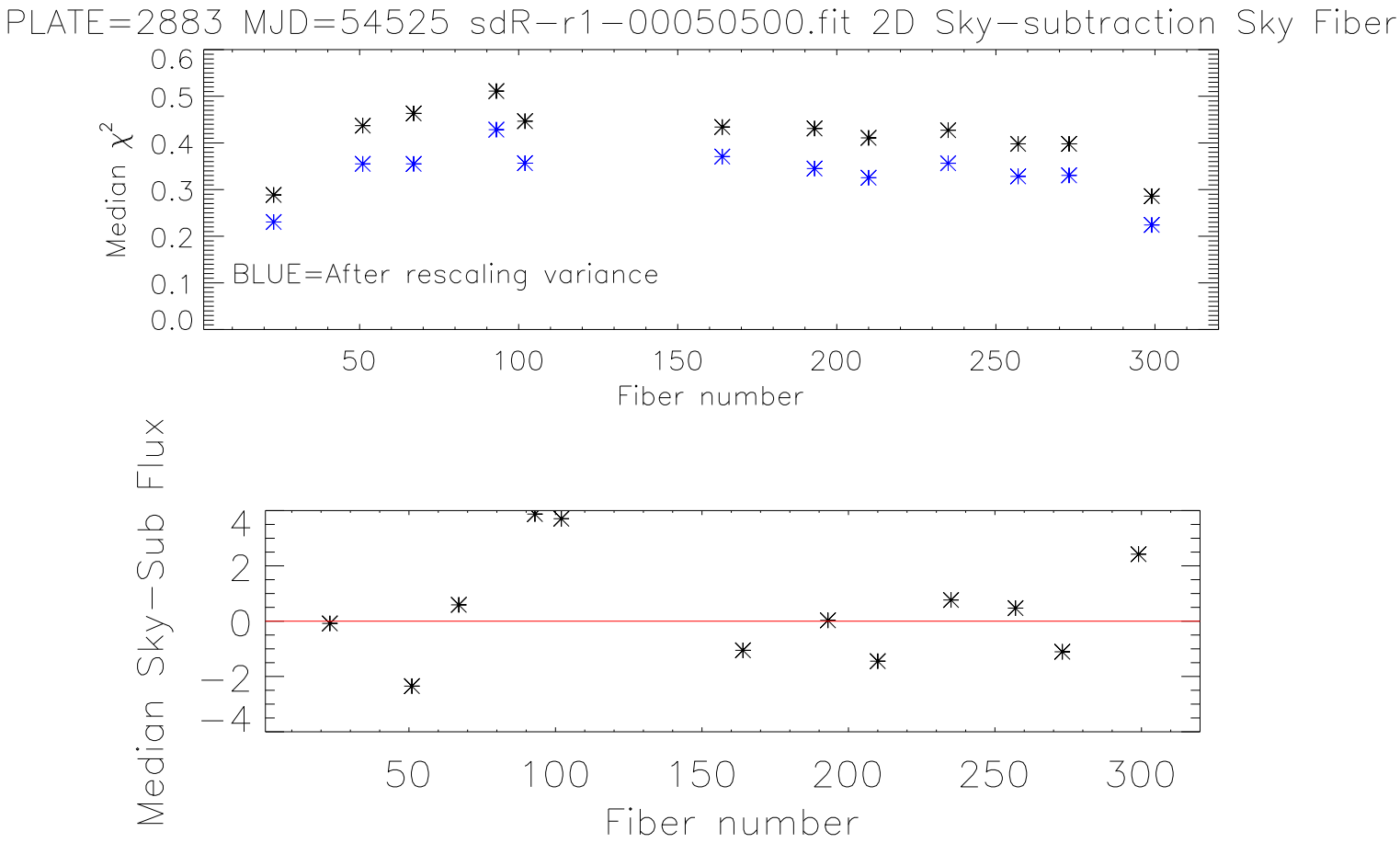

PLATE=2883 MJD=54525 sdR-r1-00050500.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

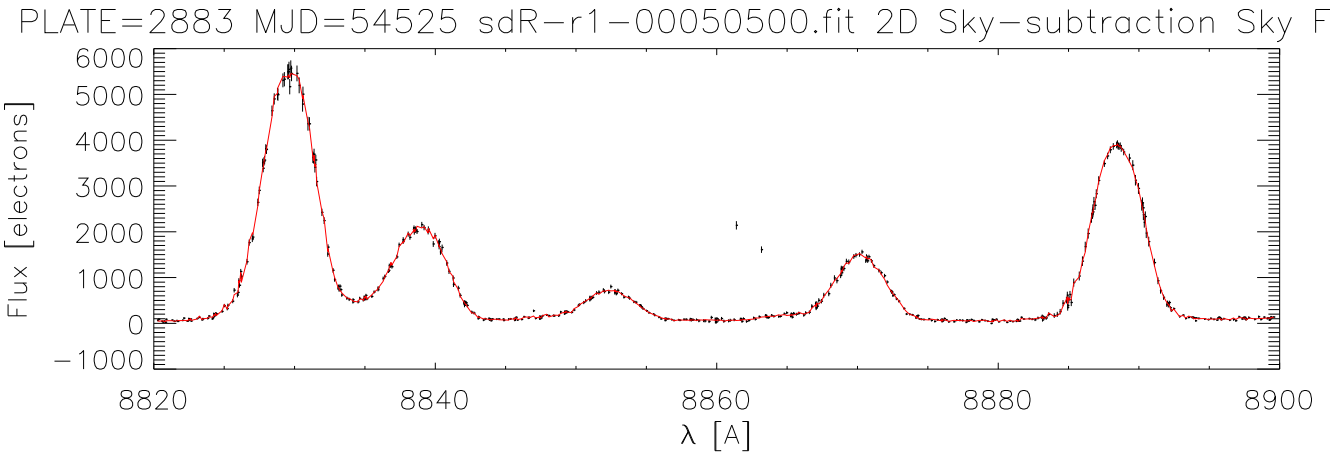
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

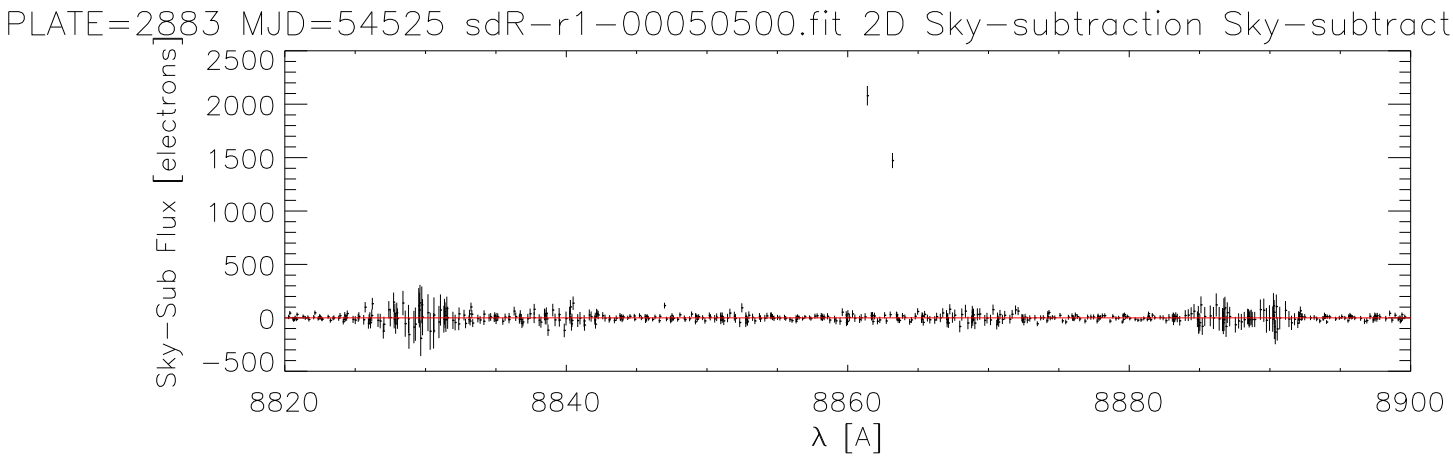

PLATE=2883 MJD=54525 sdR-r1-00050500.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

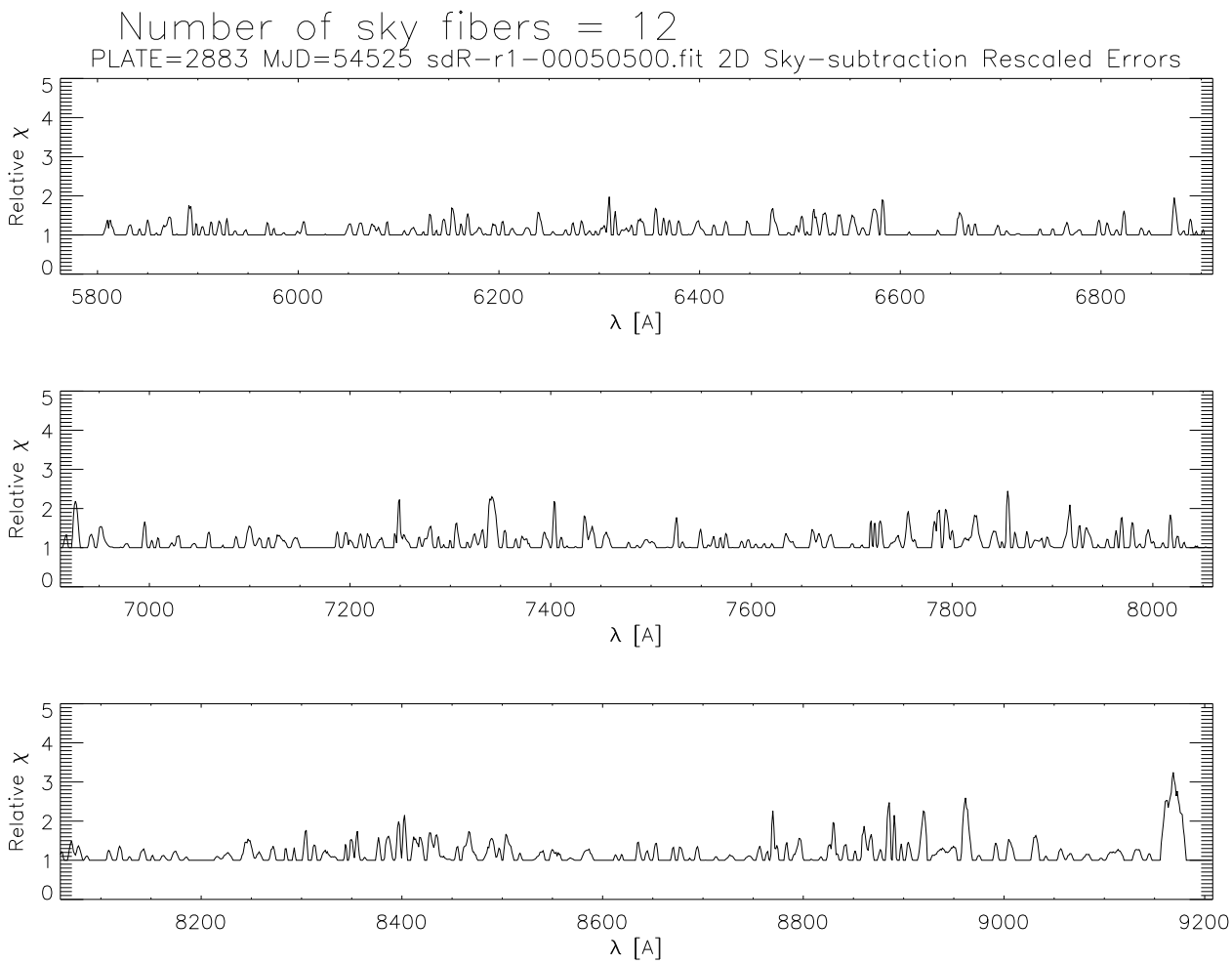

PLATE=2883 MJD=54525 sdR-r1-00050500.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

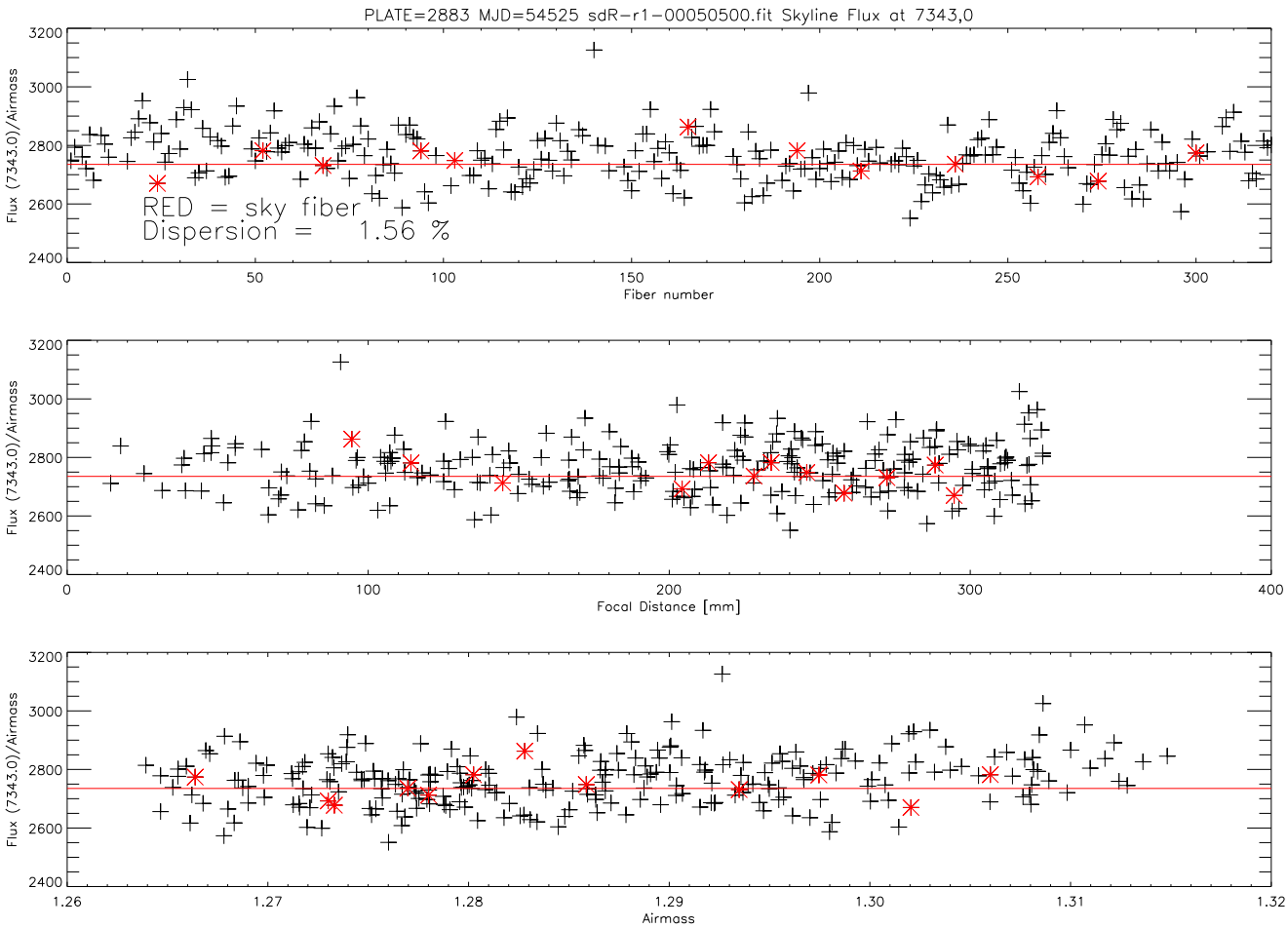

Number of sky fibers = 12
PLATE=2883 MJD=54525 sdR-r1-00050500.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

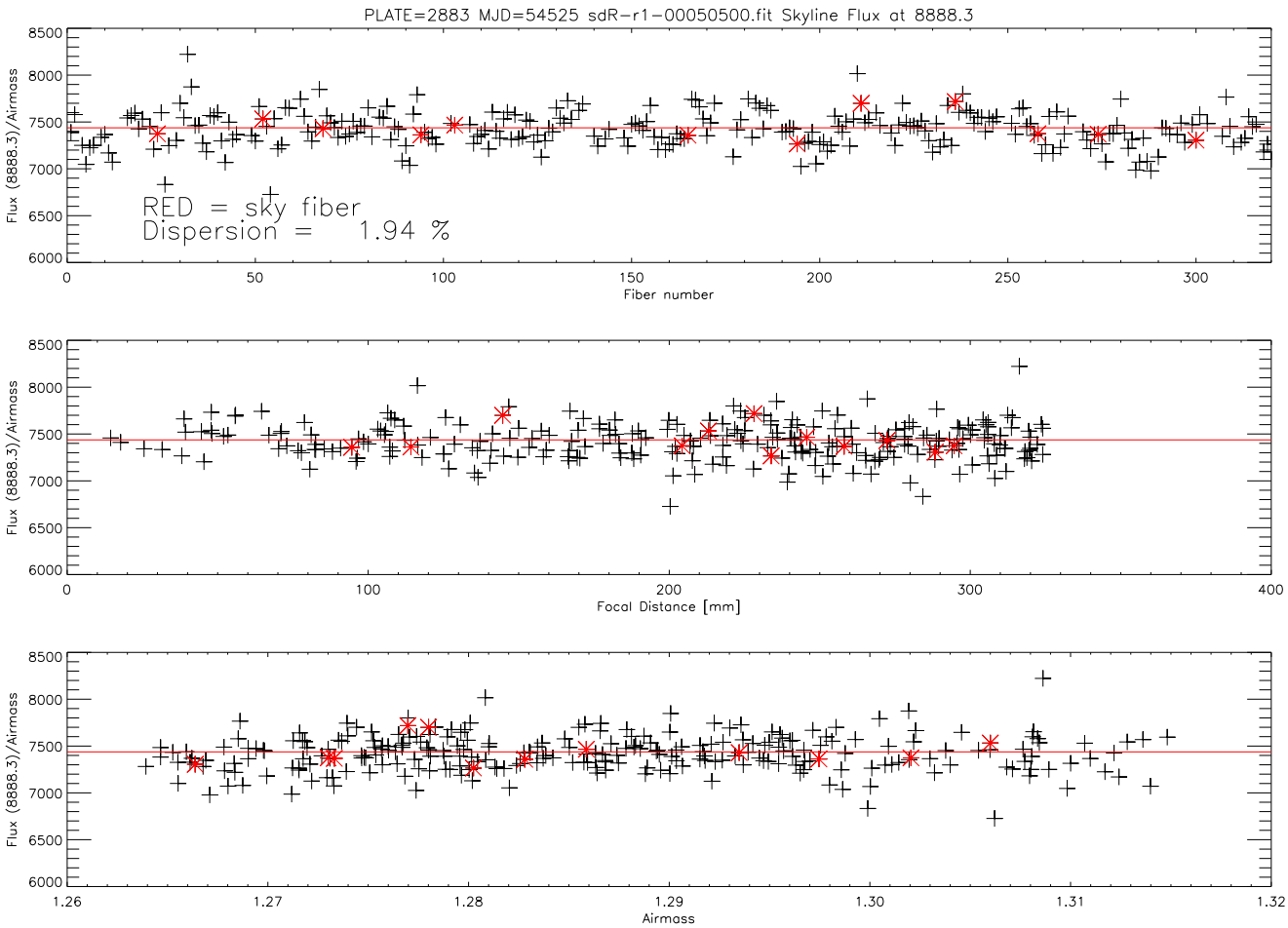

PLATE=2883 MJD=54525 sdR-r1-00050500.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

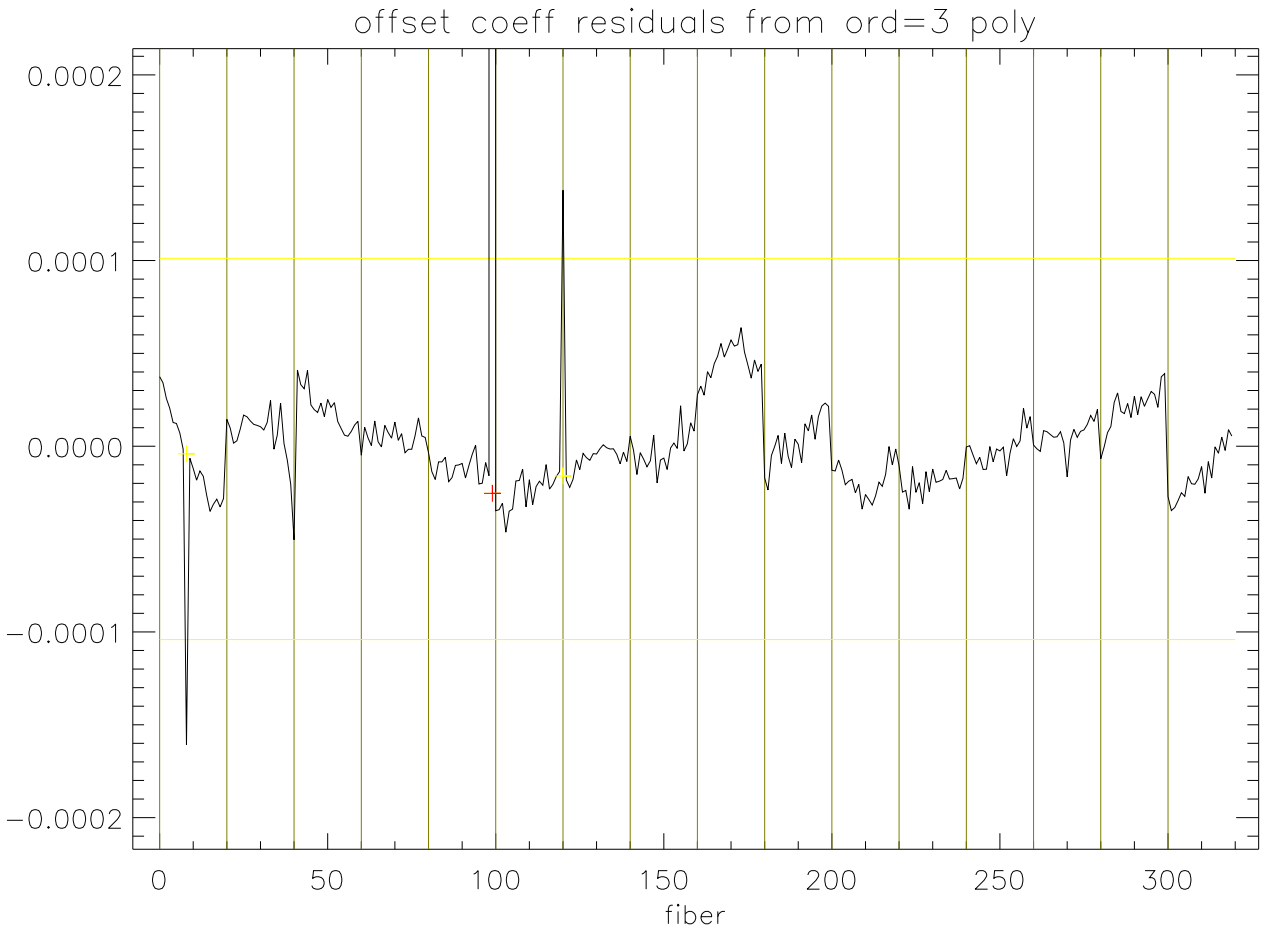

PLATE=2883 MJD=54525 sdR-r1-00050500.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

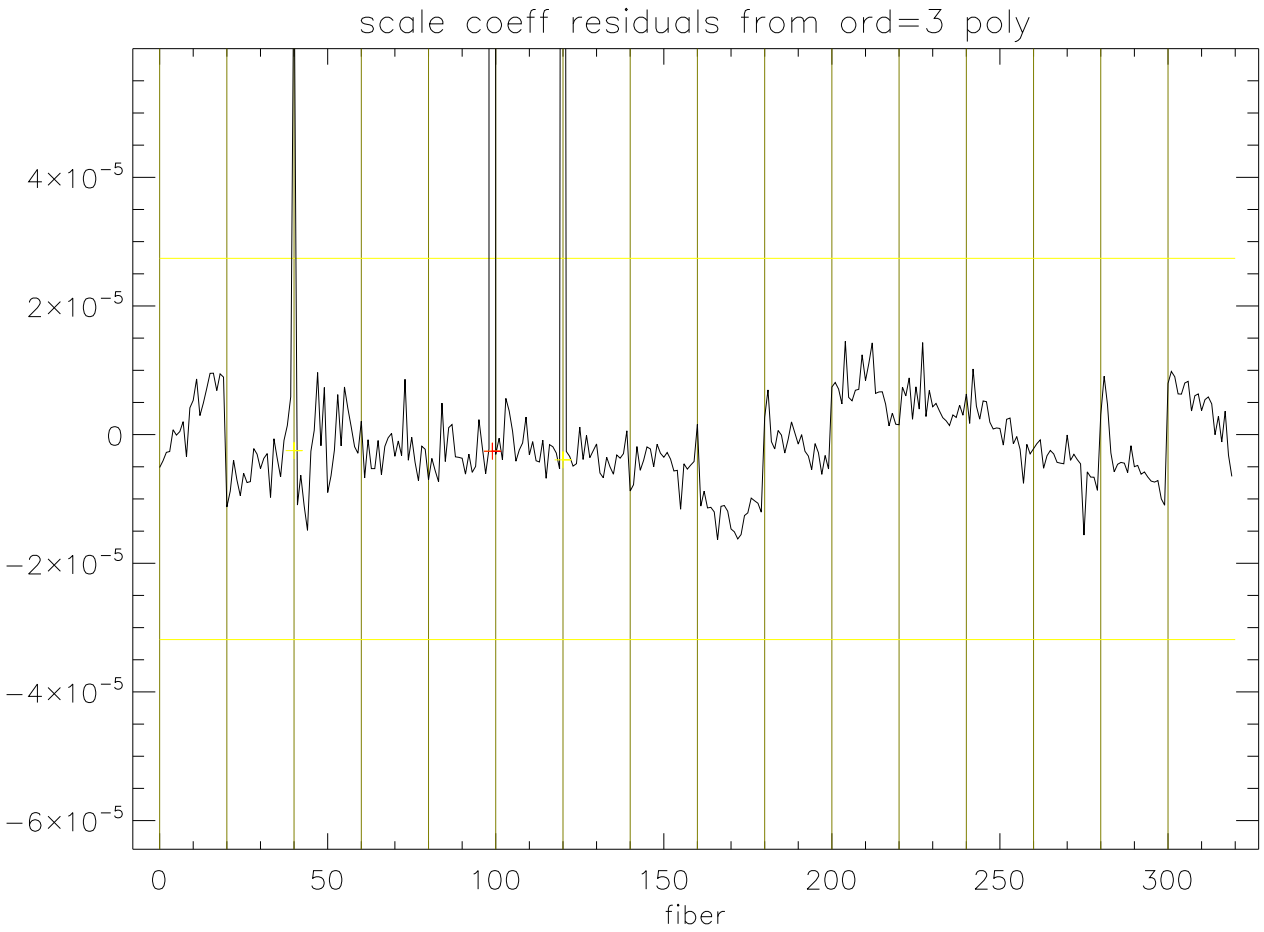

PLATE=2883 MJD=54525 sdR-r1-00050500.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

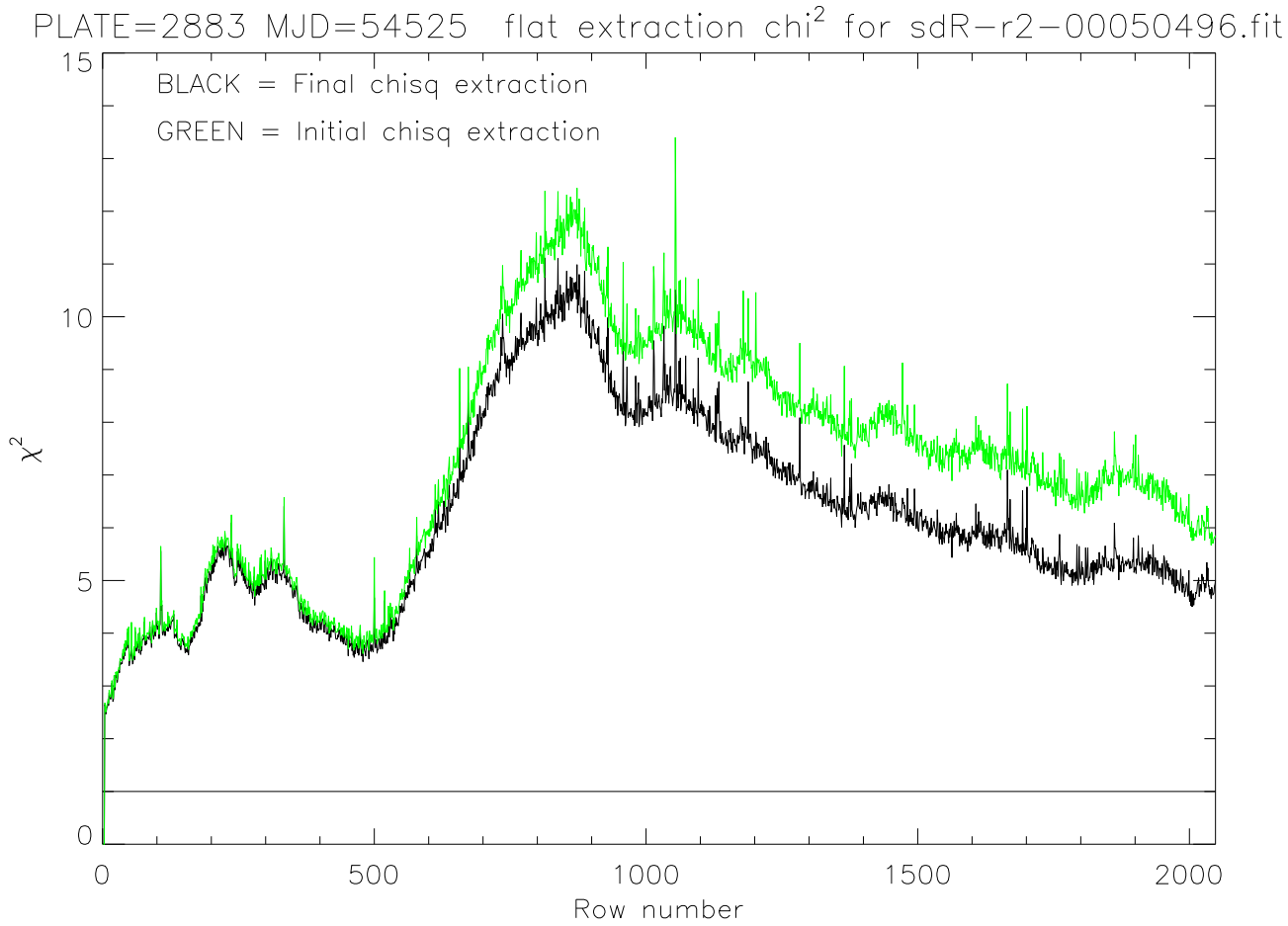

Number of sky fibers = 12
PLATE=2883 MJD=54525 sdR-r1-00050500.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

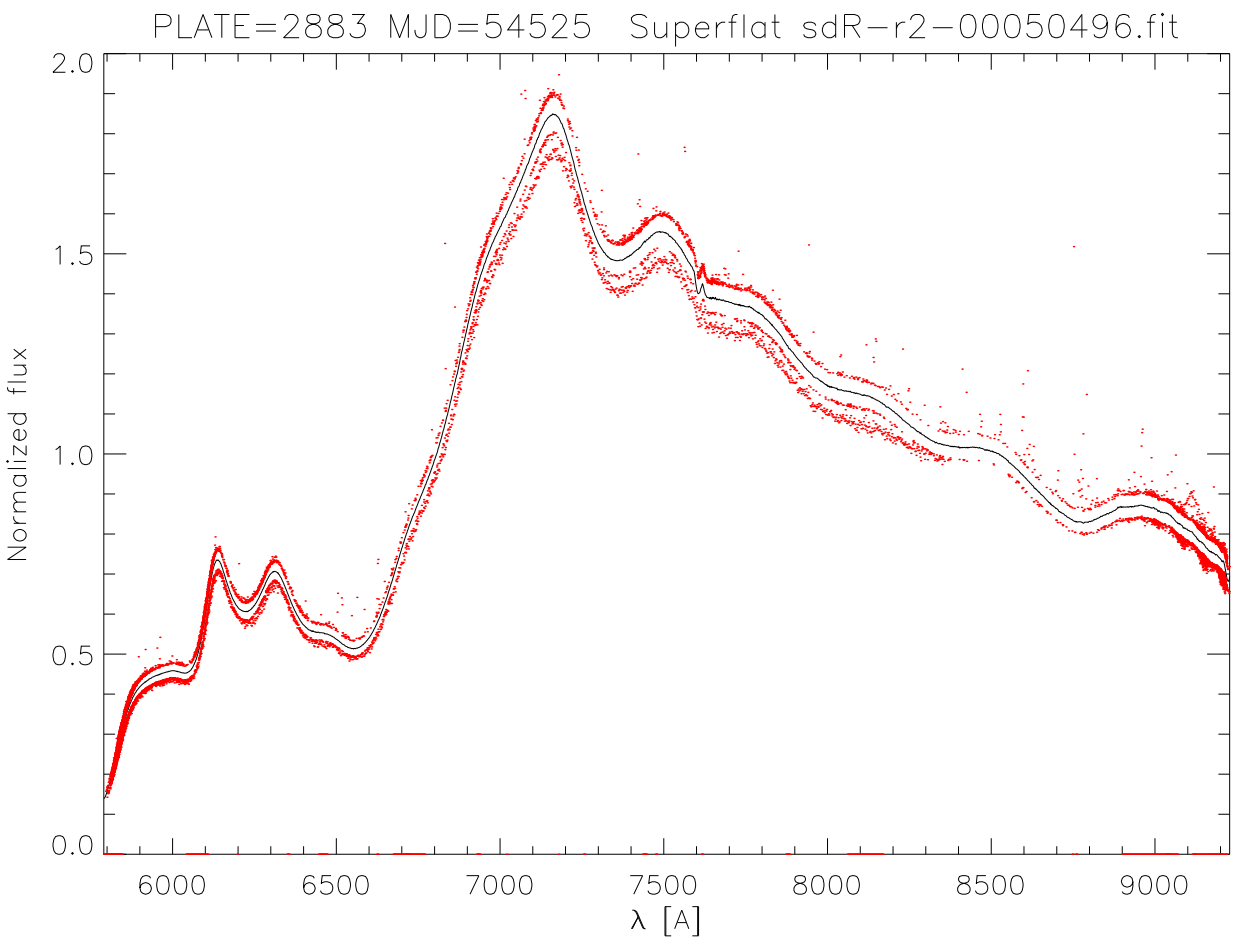

PLATE=2883 MJD=54525 sdR-r1-00050500.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.56 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

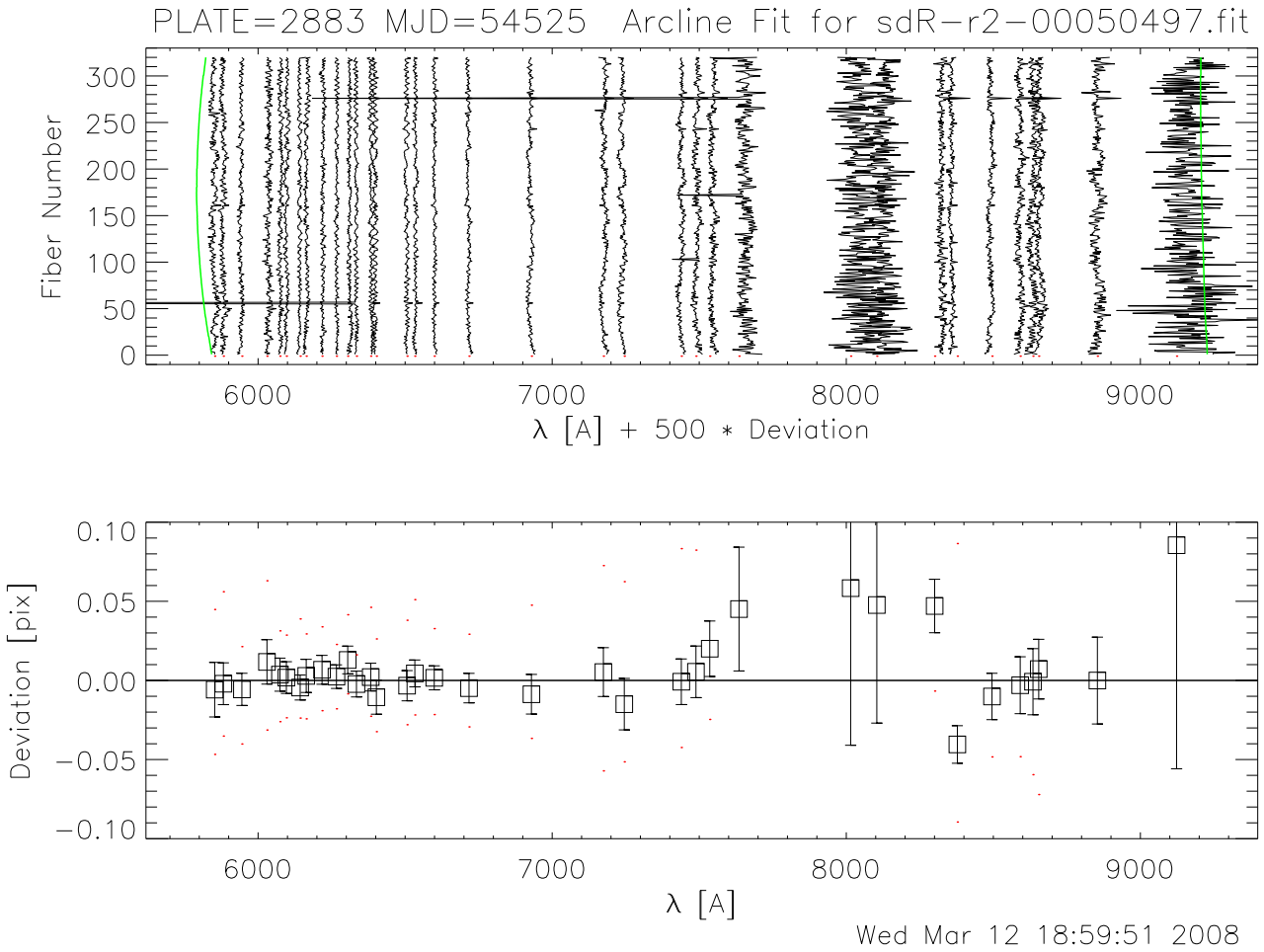

PLATE=2883 MJD=54525 sdR-r1-00050500.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.94 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass


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


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


PLATE=2883 MJD=54525 flat extraction chi^2 for sdR−r2−00050496.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000


PLATE=2883 MJD=54525 Superflat sdR-r2-00050496.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]


PLATE=2883 MJD=54525 Arcline Fit for sdR-r2-00050497.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]
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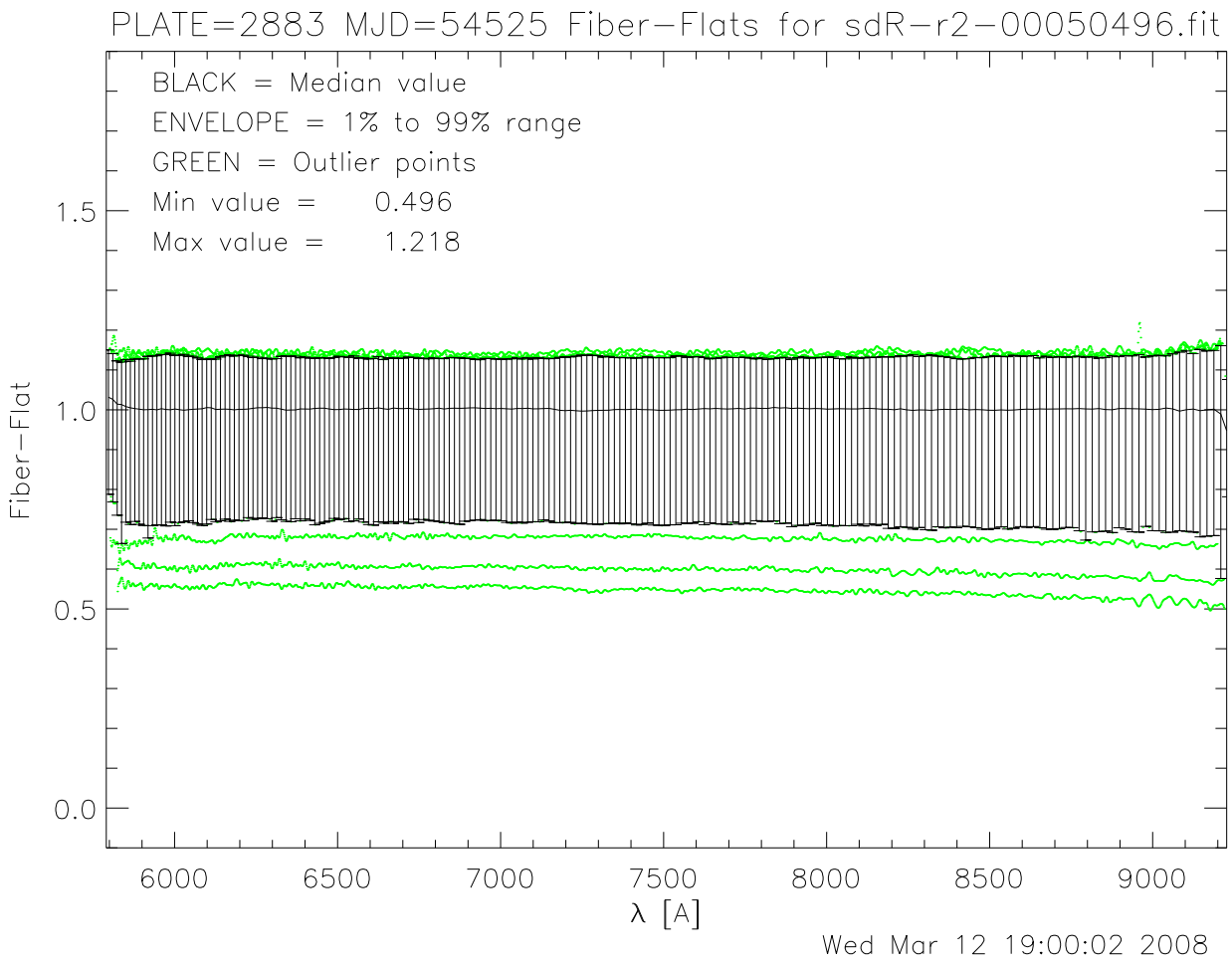
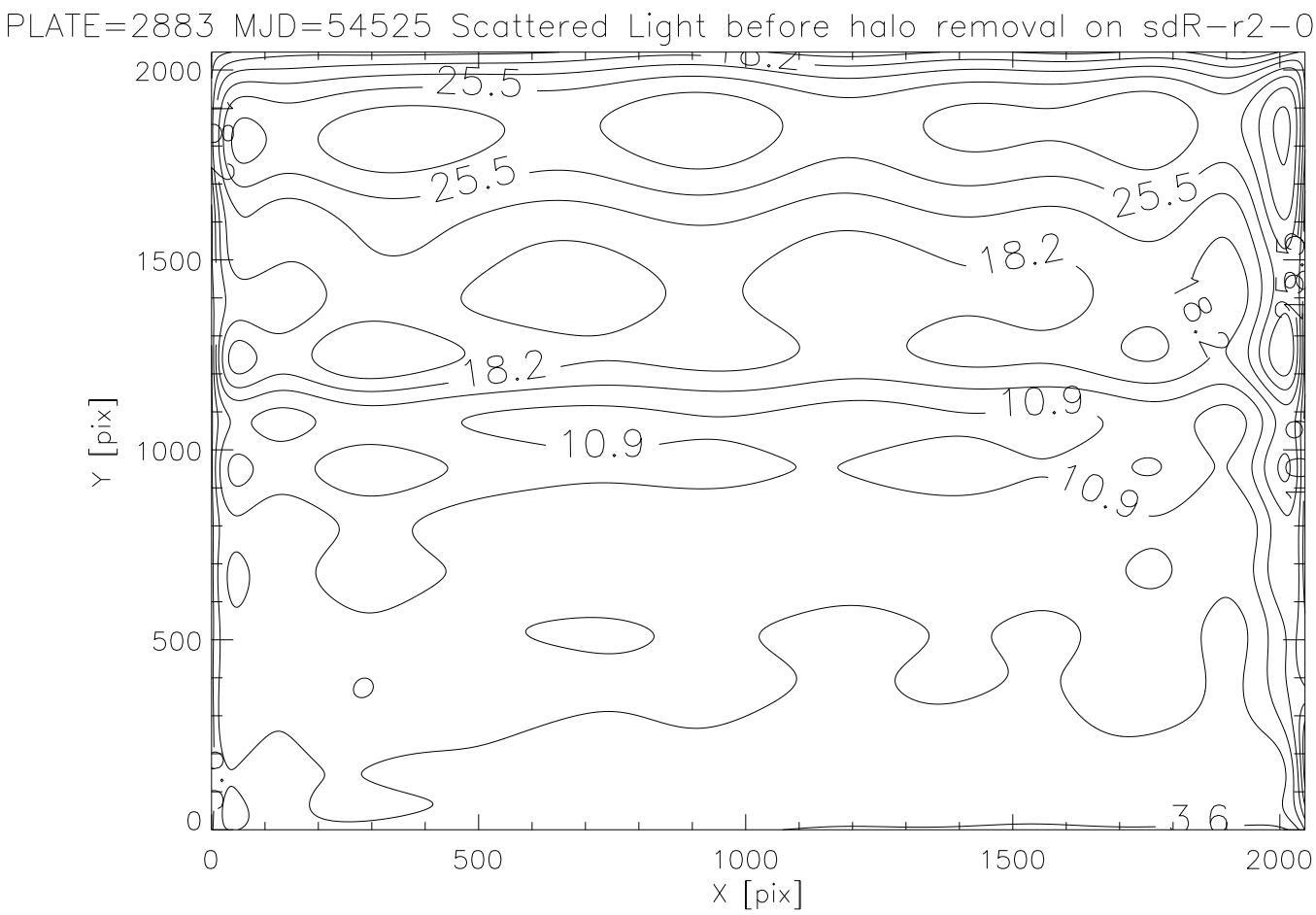
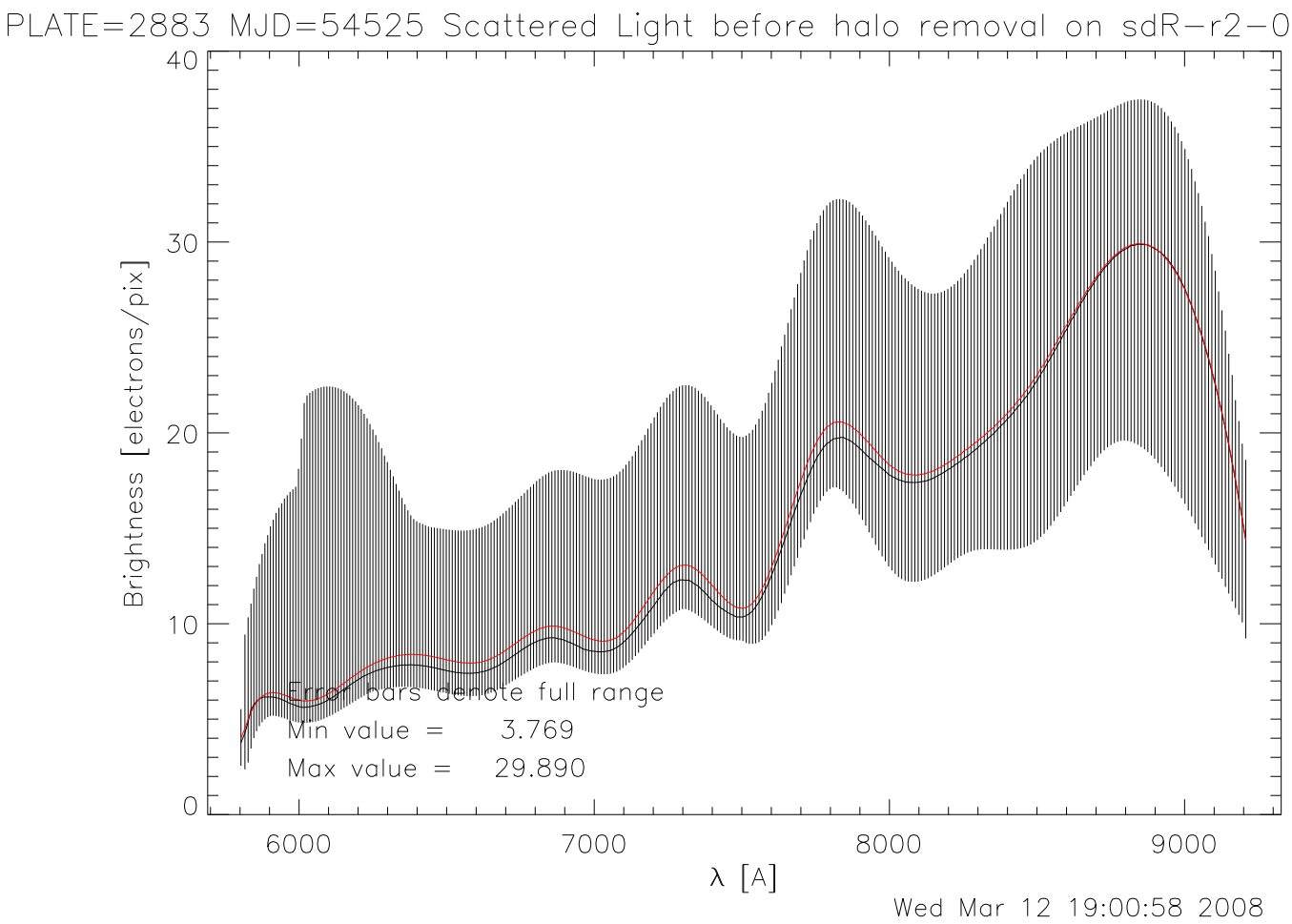
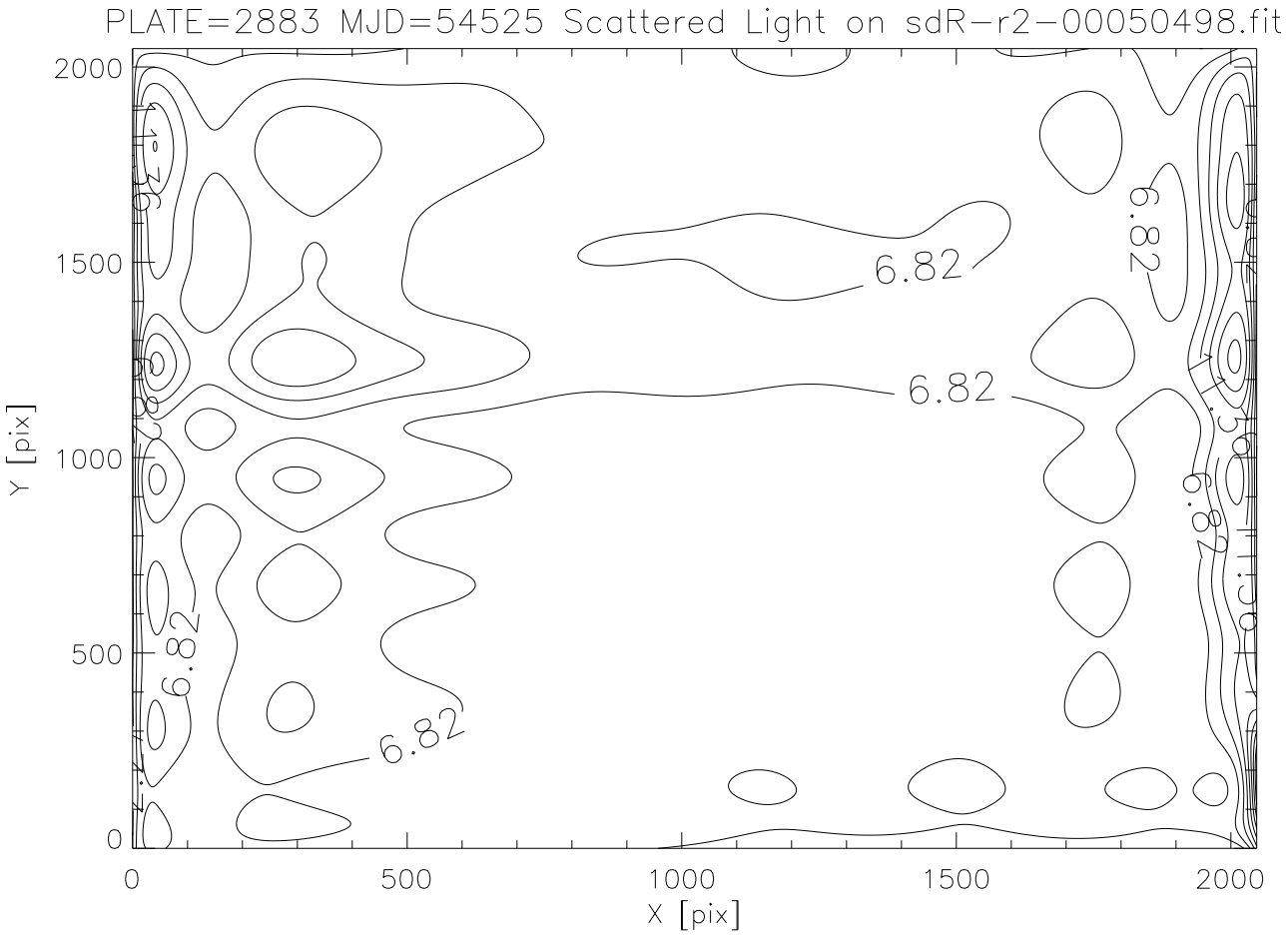
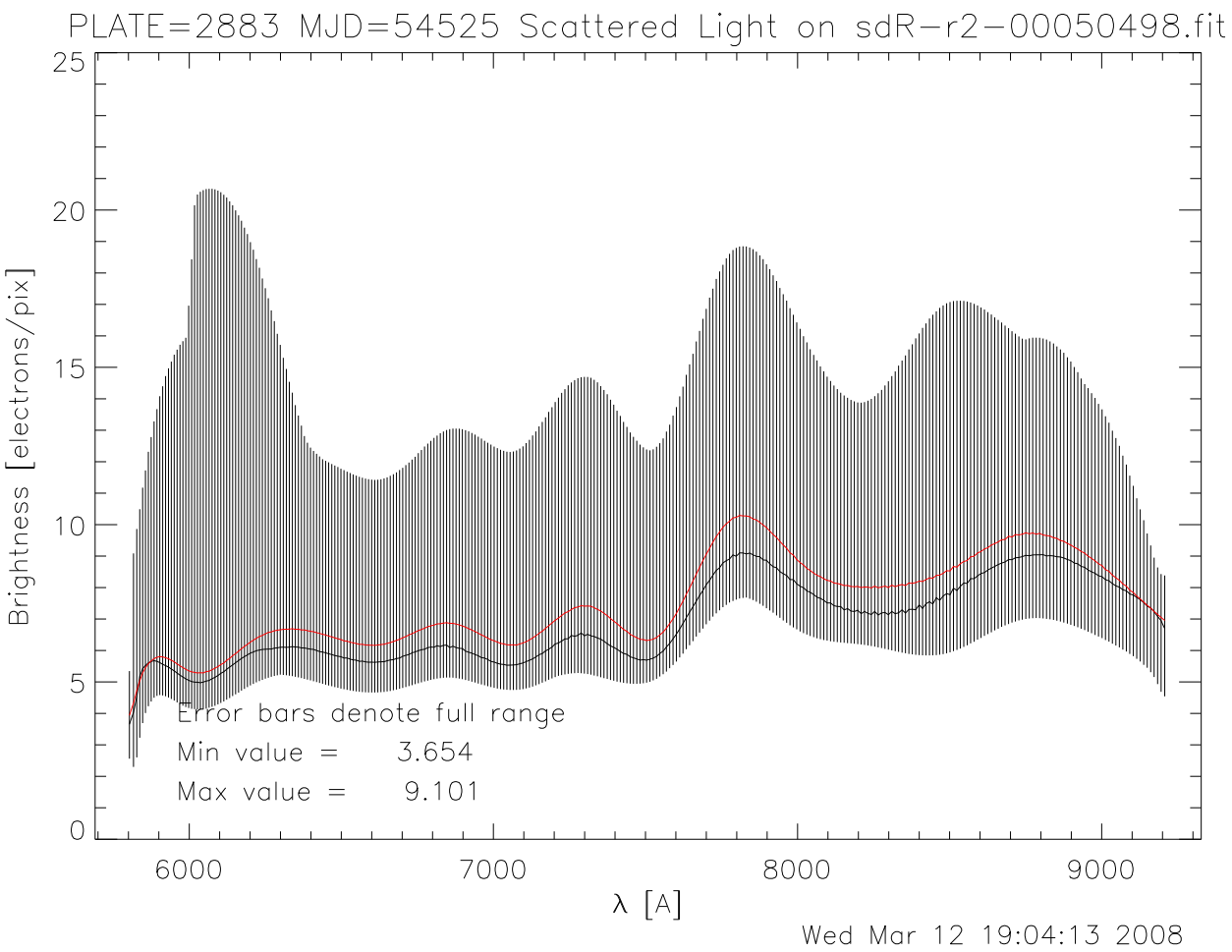
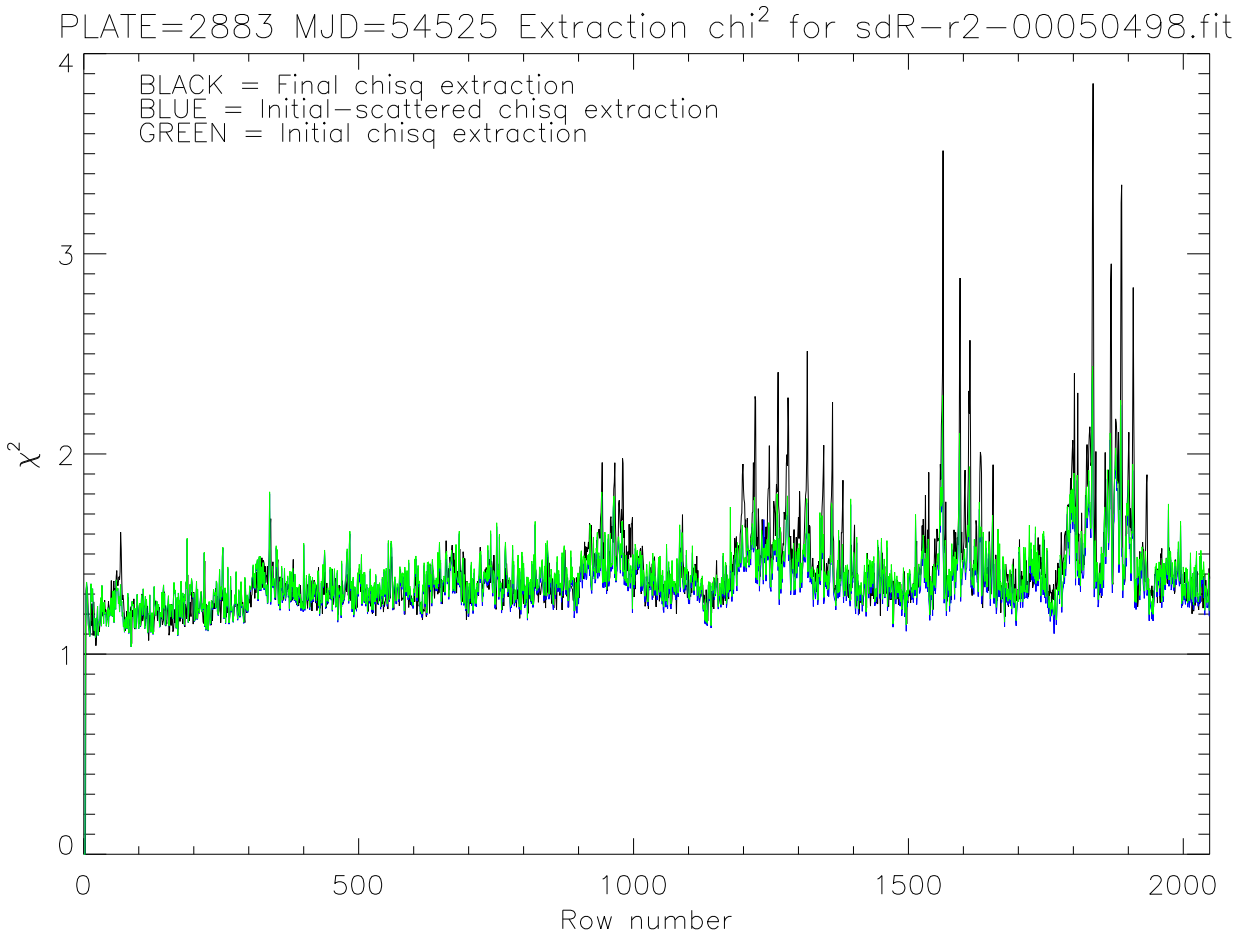

PLATE=2883 MJD=54525 Fiber−Flats for sdR−r2−00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.496
Max value = 1.218
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:00:02 2008

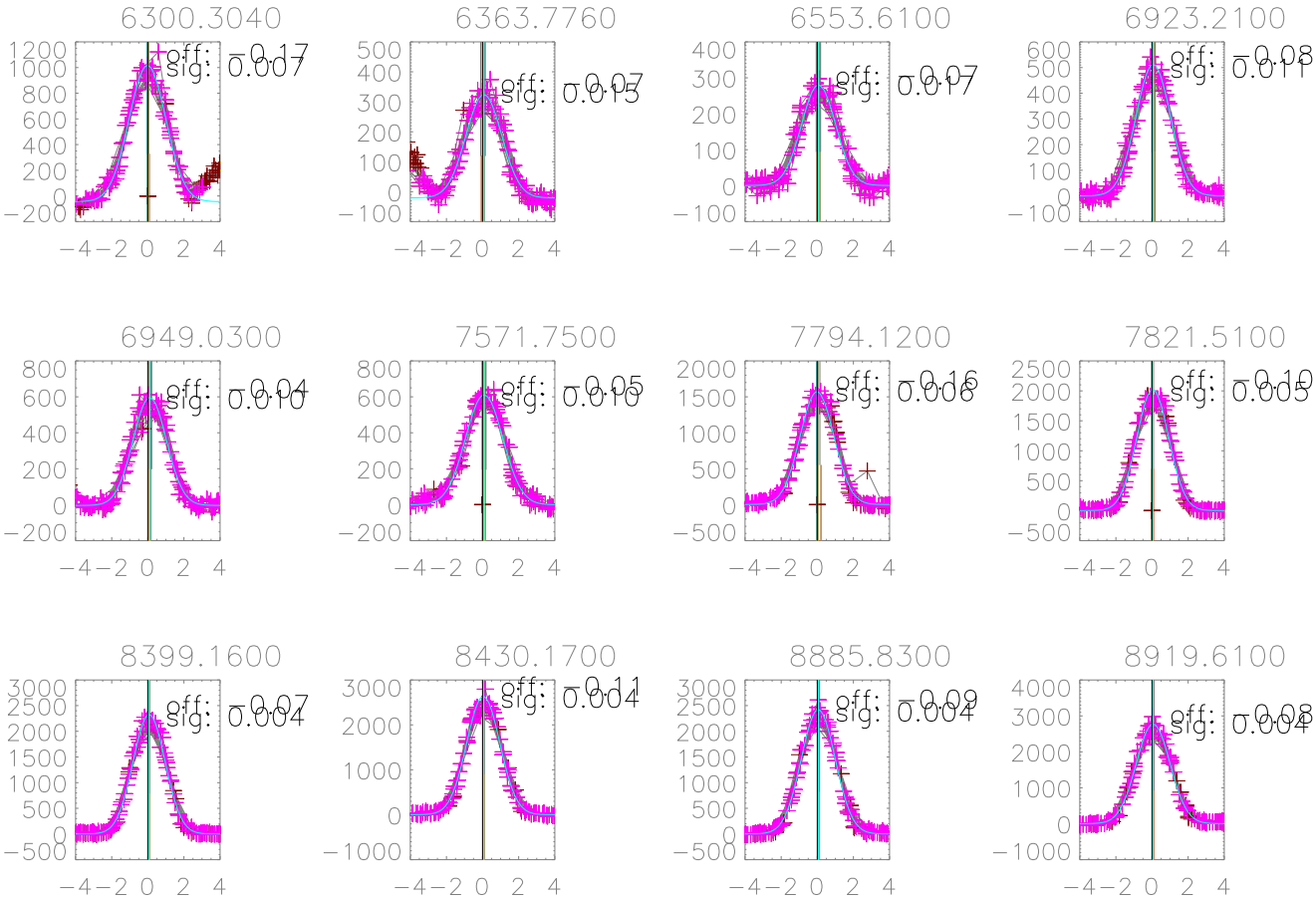

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r2-00050498.fi
25.5
25.5
25.5
18.2
18.2
18.2
10.9
10.9
10.9
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

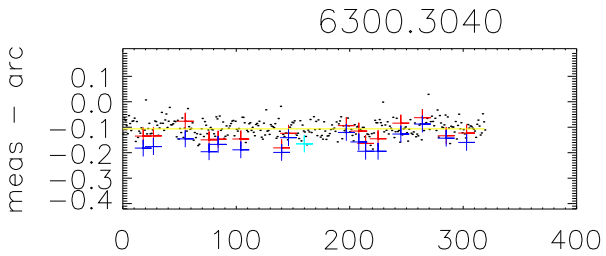

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r2-00050498.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.769
Max value = 29.890
Wed Mar 12 19:00:58 2008

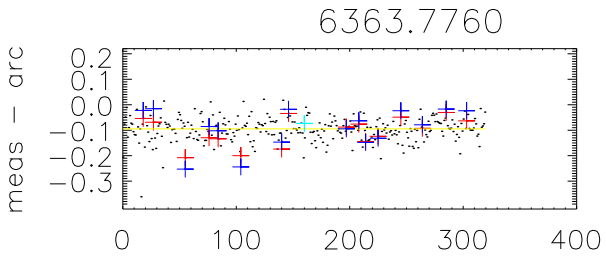

PLATE=2883 MJD=54525 Scattered Light on sdR-r2-00050498.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.82
6.82
6.82
6.82
6.82
6.82

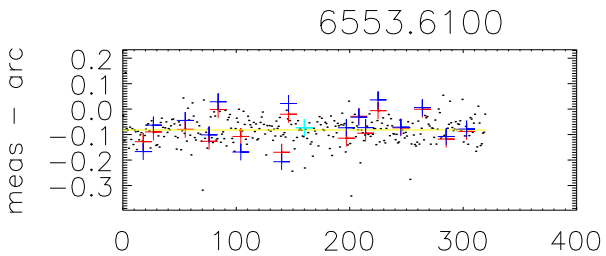

PLATE=2883 MJD=54525 Scattered Light on sdR-r2-00050498.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.654
Max value = 9.101
Wed Mar 12 19:04:13 2008

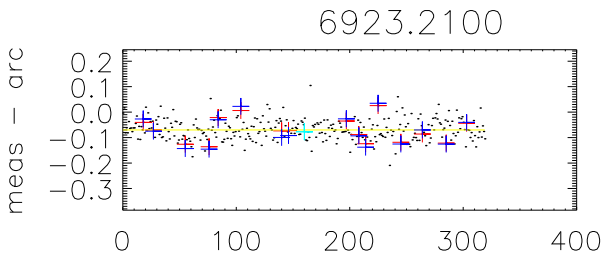

PLATE=2883 MJD=54525 Extraction chi^2 for sdR-r2-00050498.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

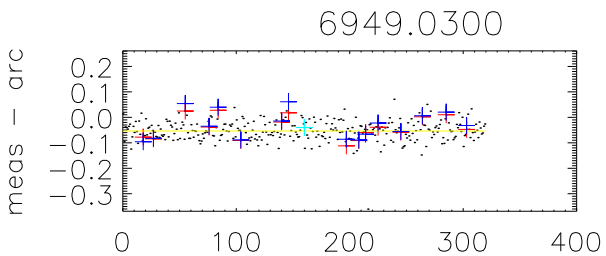

6300.3040
off: −0.17
sig: 0.007
6363.7760
off: −0.07
sig: 0.015
6553.6100
off: −0.07
sig: 0.017
6923.2100
off: −0.08
sig: 0.011
6949.0300
off: −0.04
sig: 0.010
7571.7500
off: −0.05
sig: 0.010
7794.1200
off: −0.16
sig: 0.006
7821.5100
off: −0.10
sig: 0.005
8399.1600
off: −0.07
sig: 0.004
8430.1700
off: −0.11
sig: 0.004
8885.8300
off: −0.09
sig: 0.004
8919.6100
off: −0.08
sig: 0.004

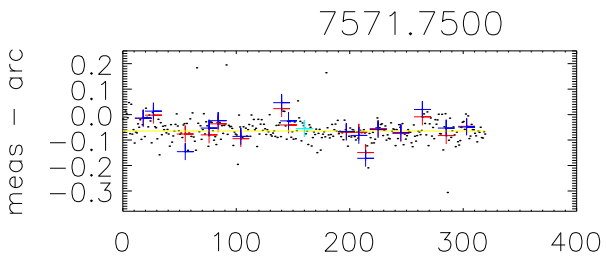

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

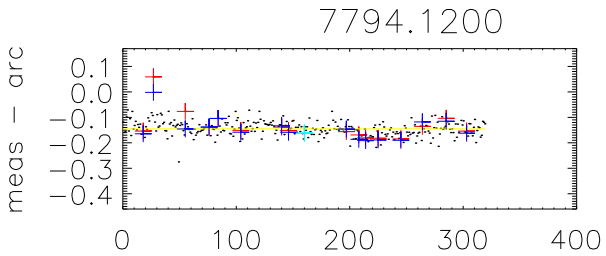

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

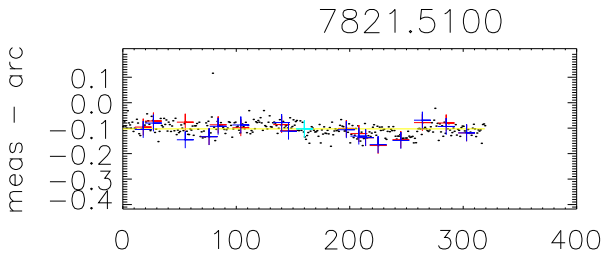

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

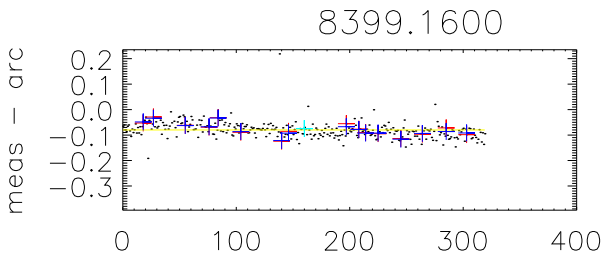

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

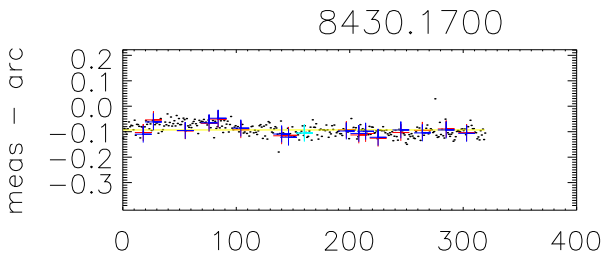

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

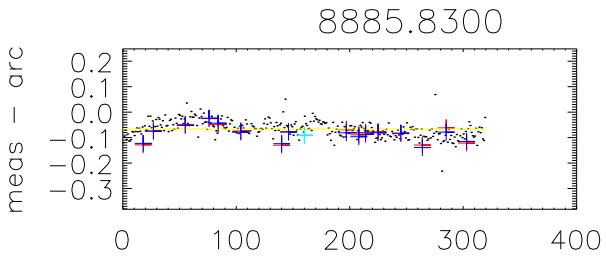

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

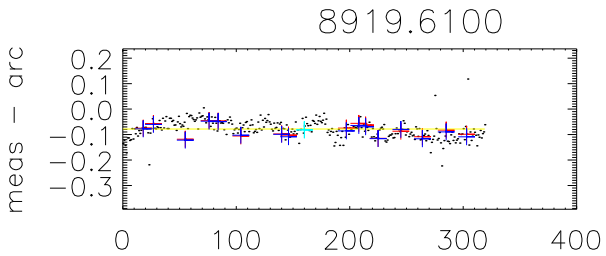

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

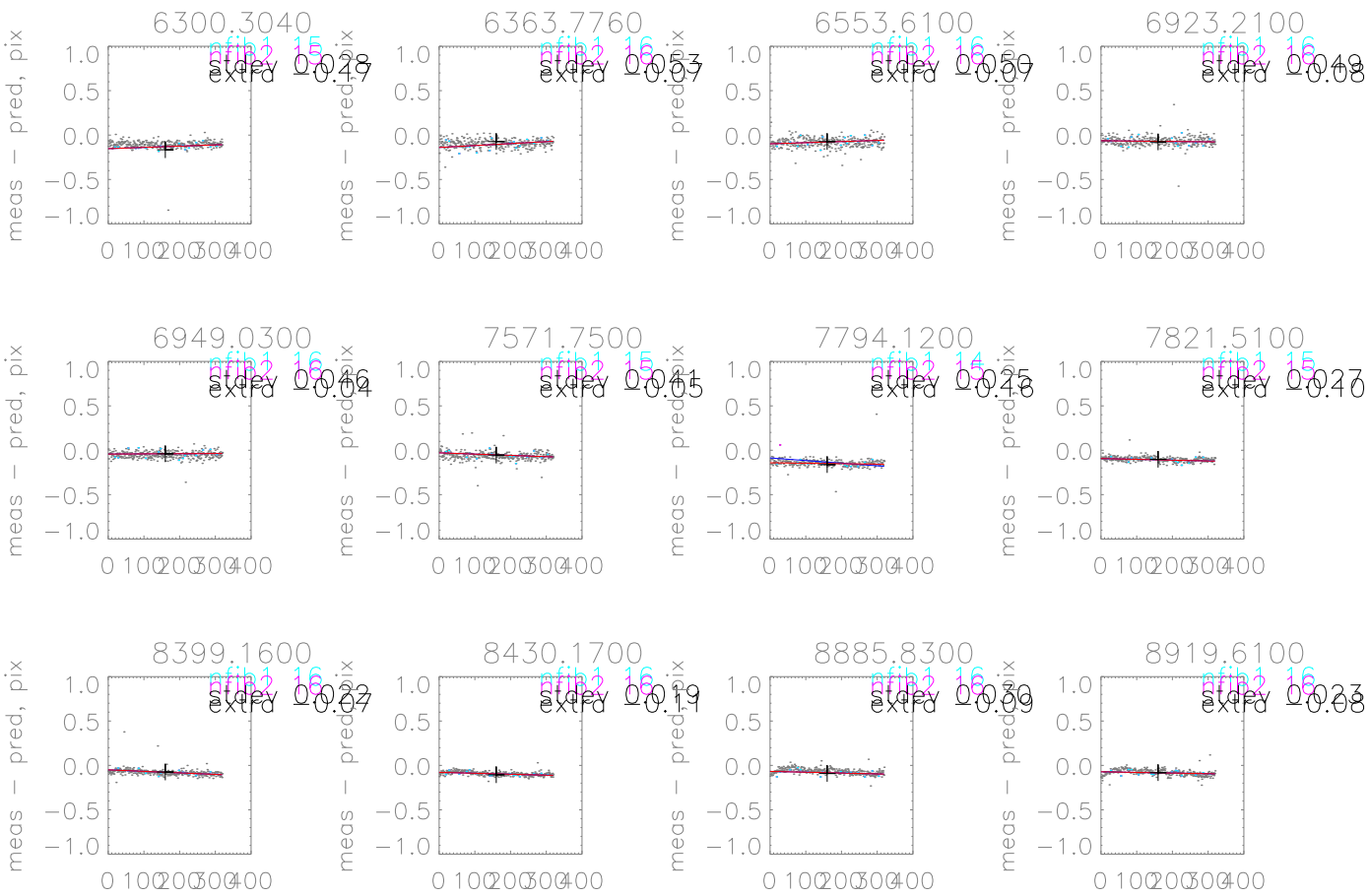

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

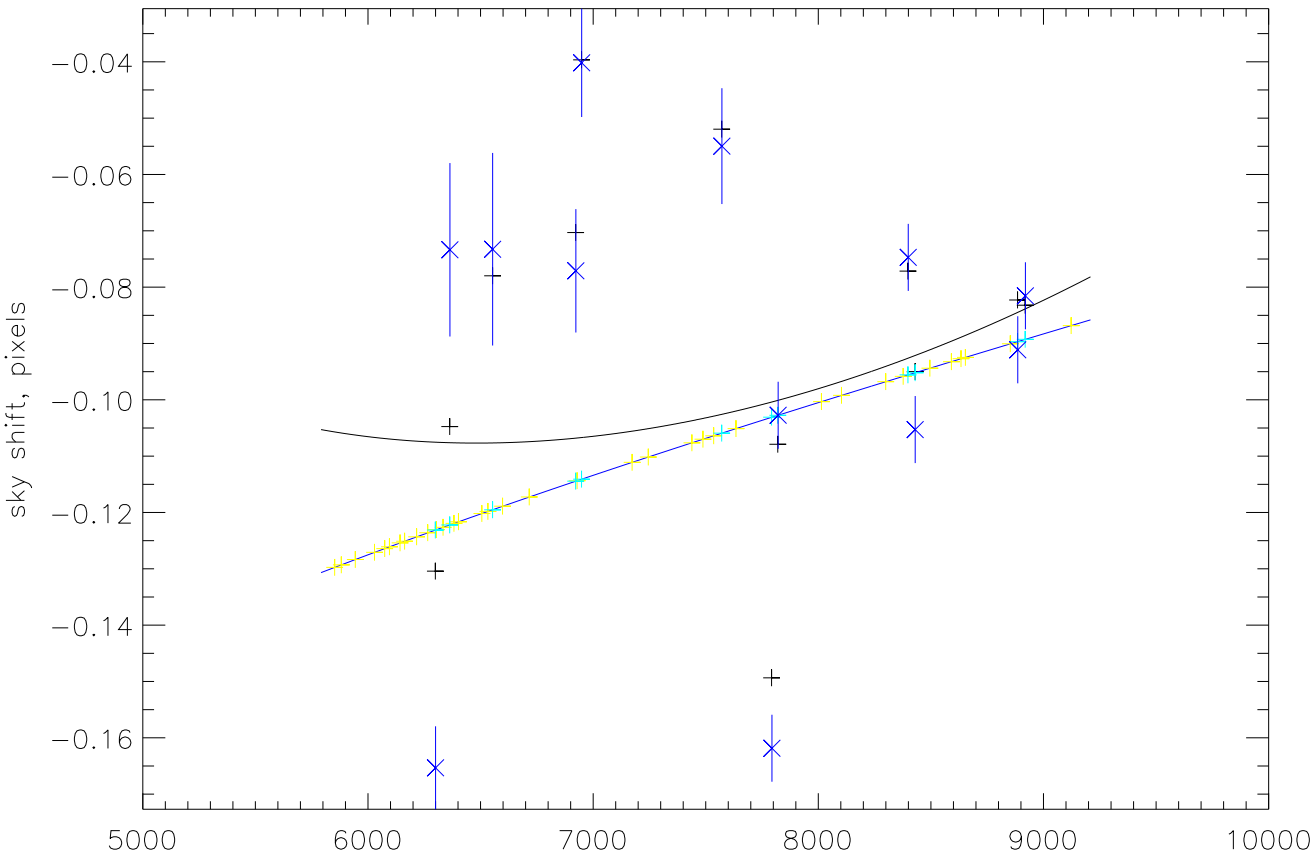

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

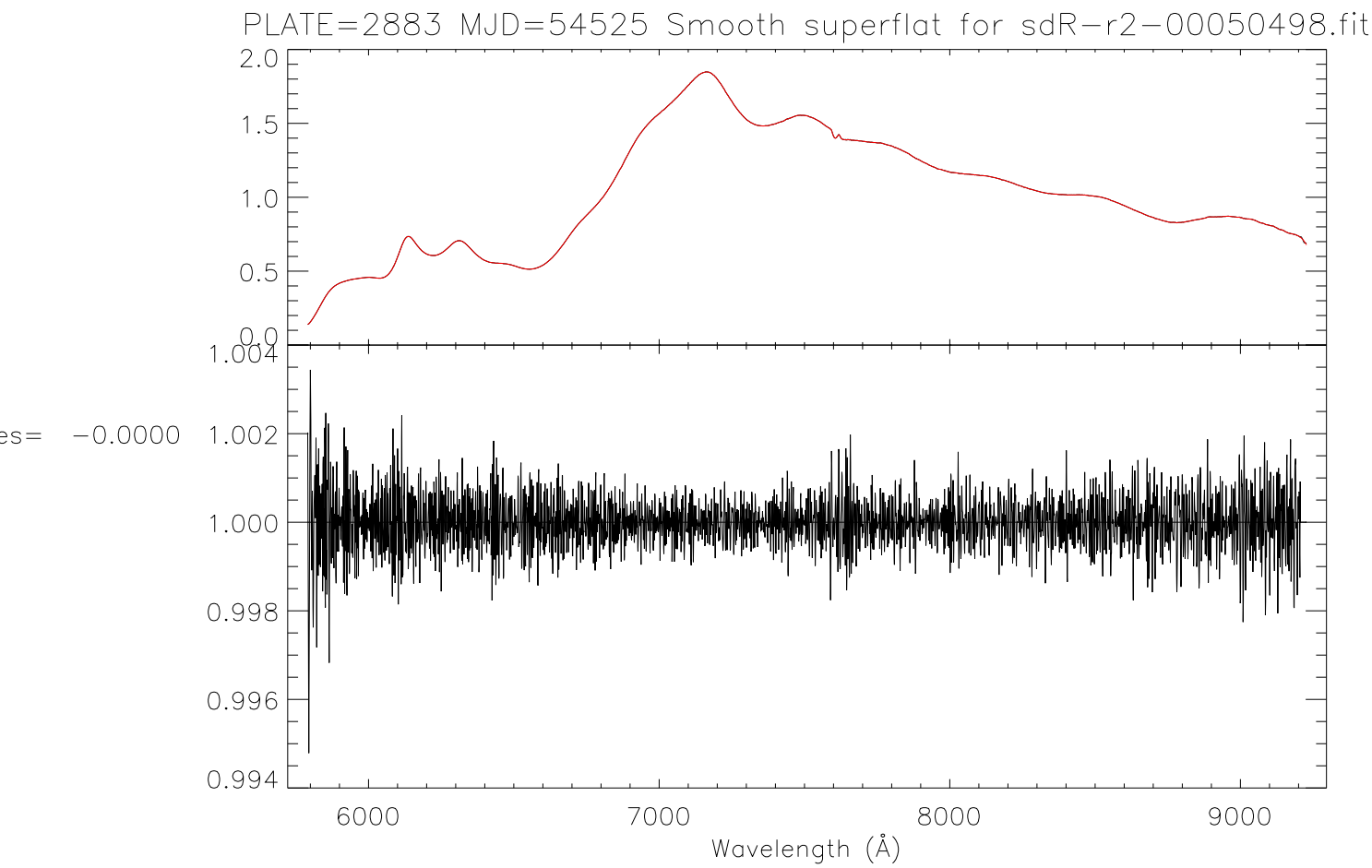

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

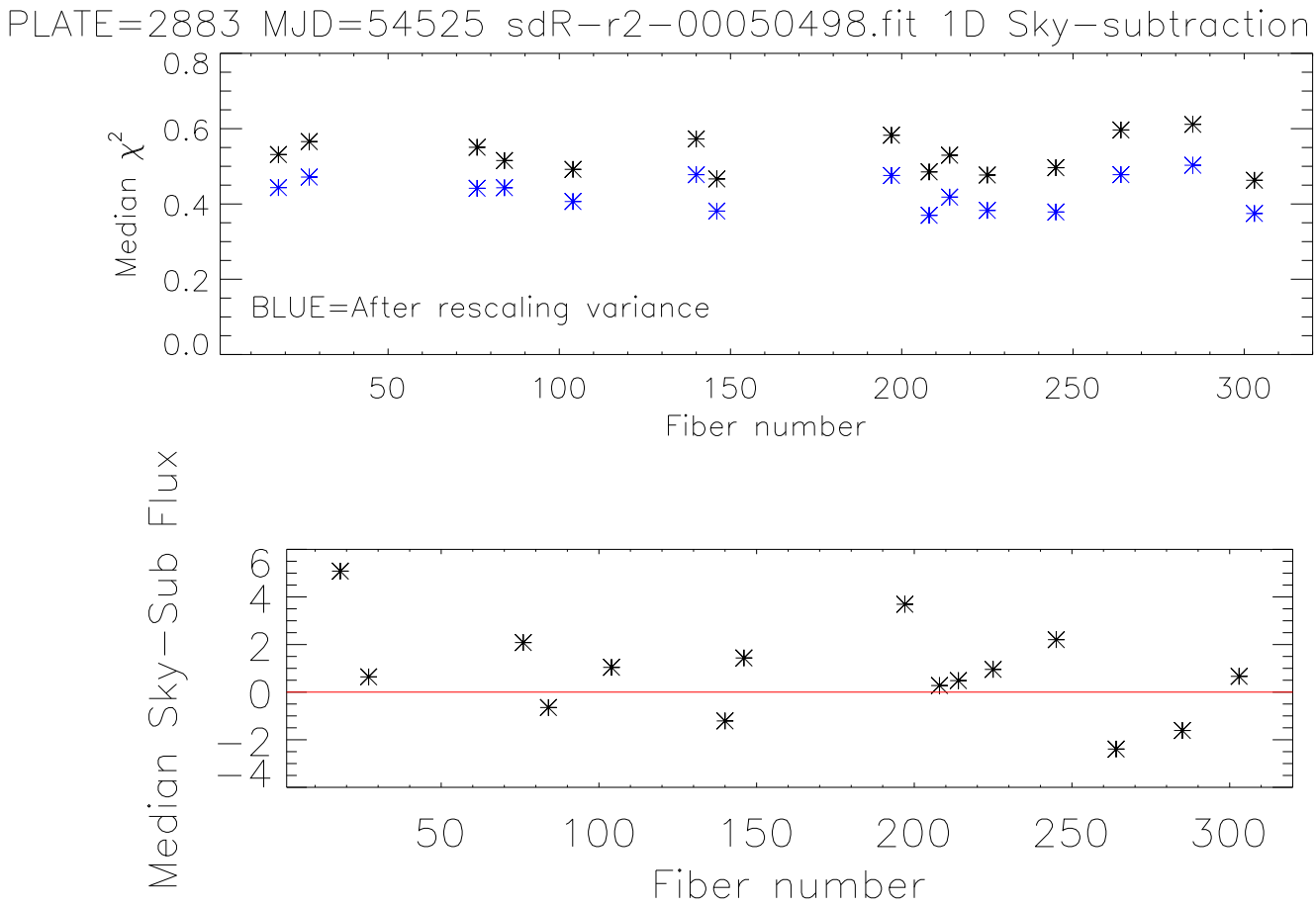

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

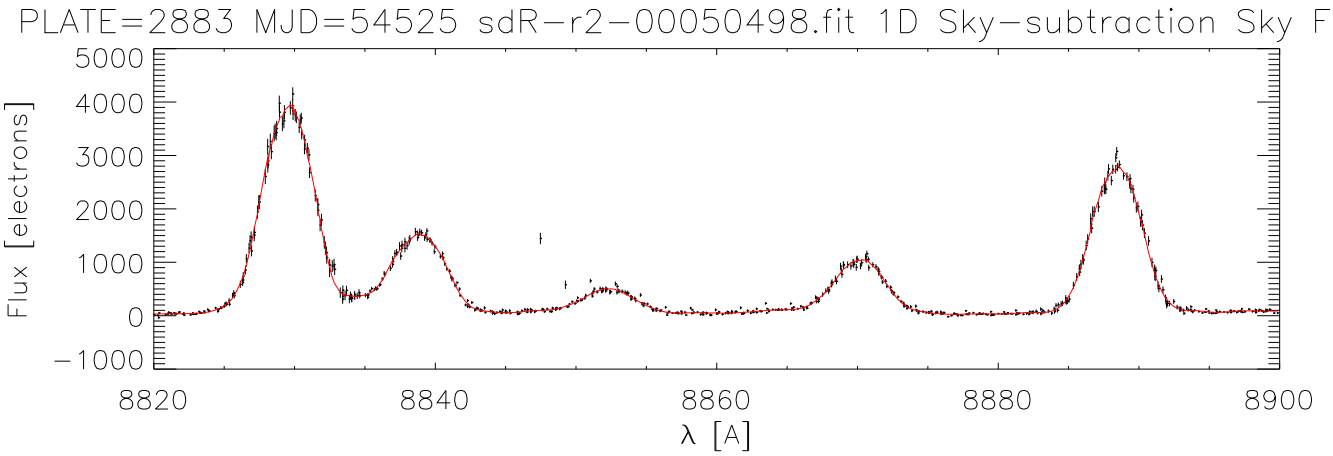

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

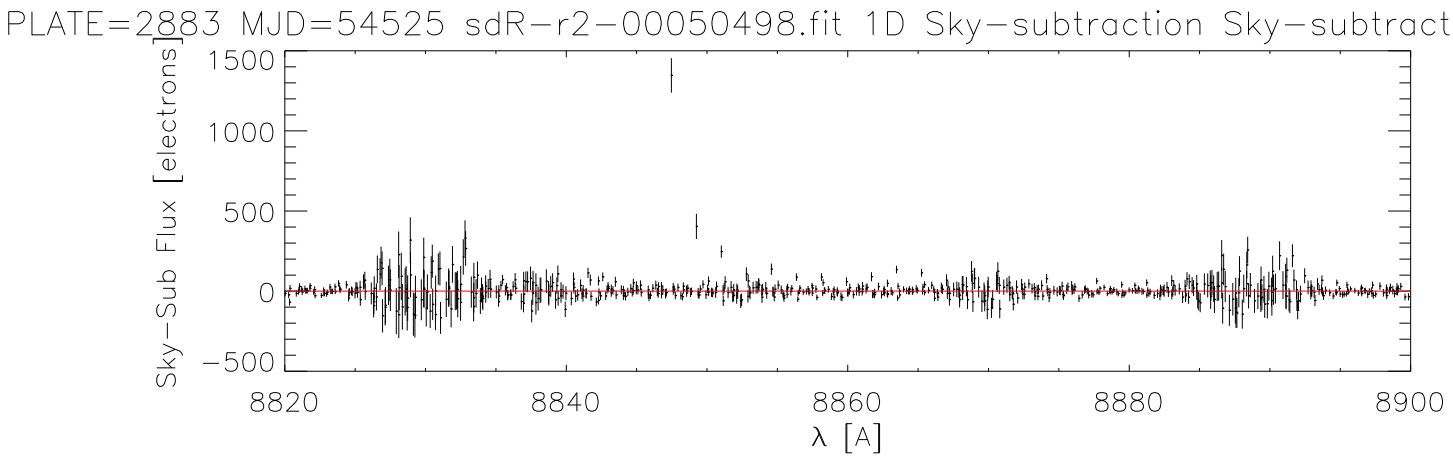

6300.3040
mfib1 15
mfib2 16
stdev 0.028
extrd −0.047
6363.7760
mfib1 16
mfib2 16
stdev 0.053
extrd −0.007
6553.6100
mfib1 16
mfib2 16
stdev 0.050
extrd −0.007
6923.2100
mfib1 16
mfib2 16
stdev 0.049
extrd −0.008
6949.0300
mfib1 16
mfib2 16
stdev 0.046
extrd −0.004
7571.7500
mfib1 15
mfib2 15
stdev 0.041
extrd −0.005
7794.1200
mfib1 14
mfib2 16
stdev 0.025
extrd −0.048
7821.5100
mfib1 15
mfib2 15
stdev 0.027
extrd −0.040
8399.1600
mfib1 16
mfib2 16
stdev 0.022
extrd −0.007
8430.1700
mfib1 16
mfib2 16
stdev 0.019
extrd −0.011
8885.8300
mfib1 16
mfib2 16
stdev 0.030
extrd −0.009
8919.6100
mfib1 16
mfib2 16
stdev 0.023
extrd −0.008
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

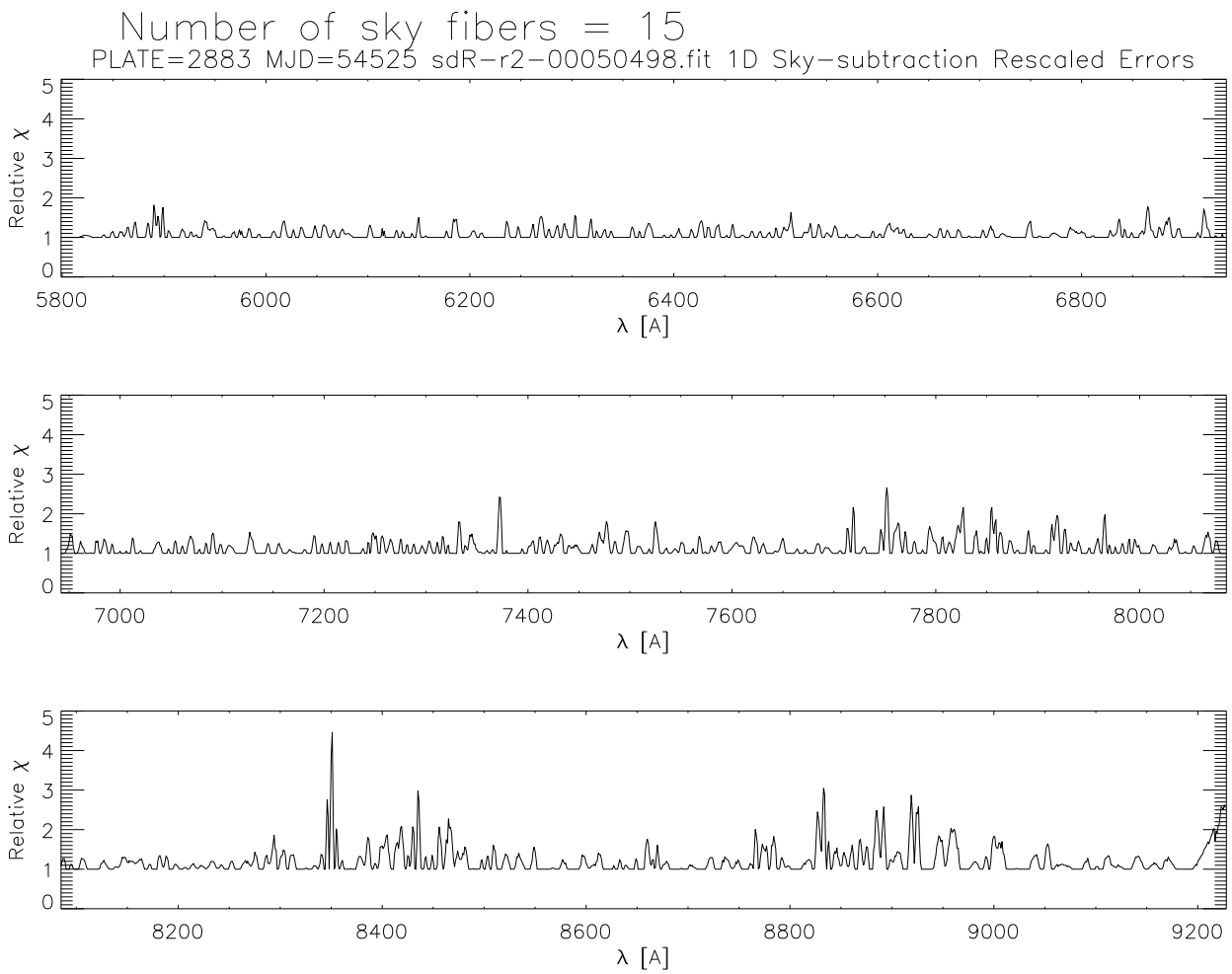

sky shift, pixels
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
5000
6000
7000
8000
9000
10000

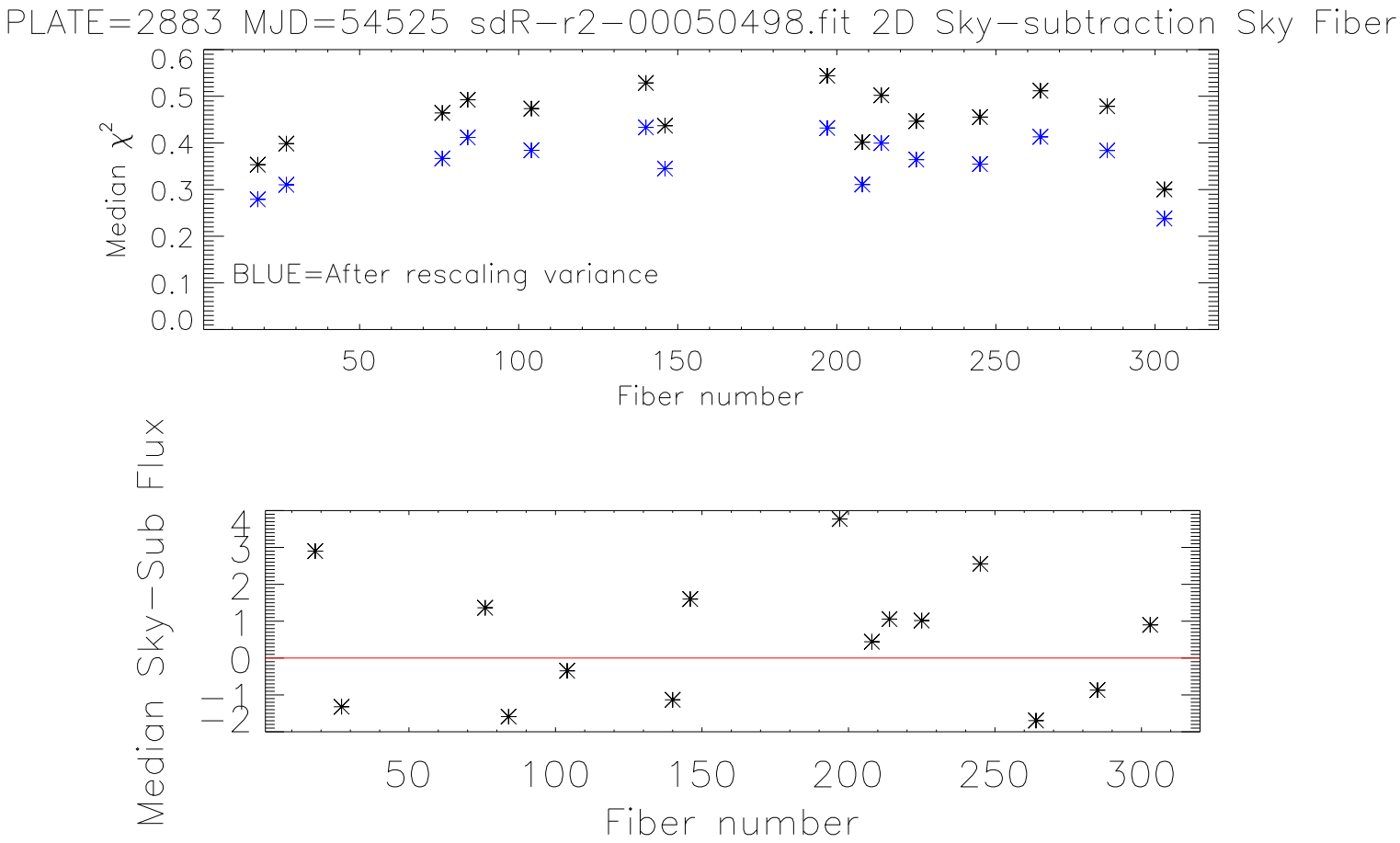

PLATE=2883 MJD=54525 Smooth superflat for sdR-r2-00050498.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

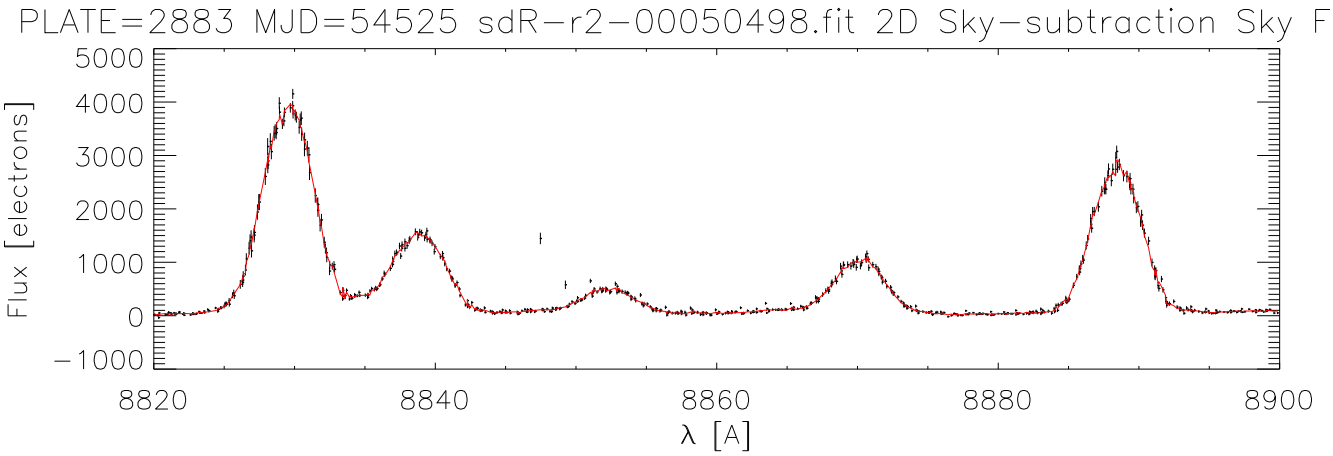

PLATE=2883 MJD=54525 sdR-r2-00050498.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

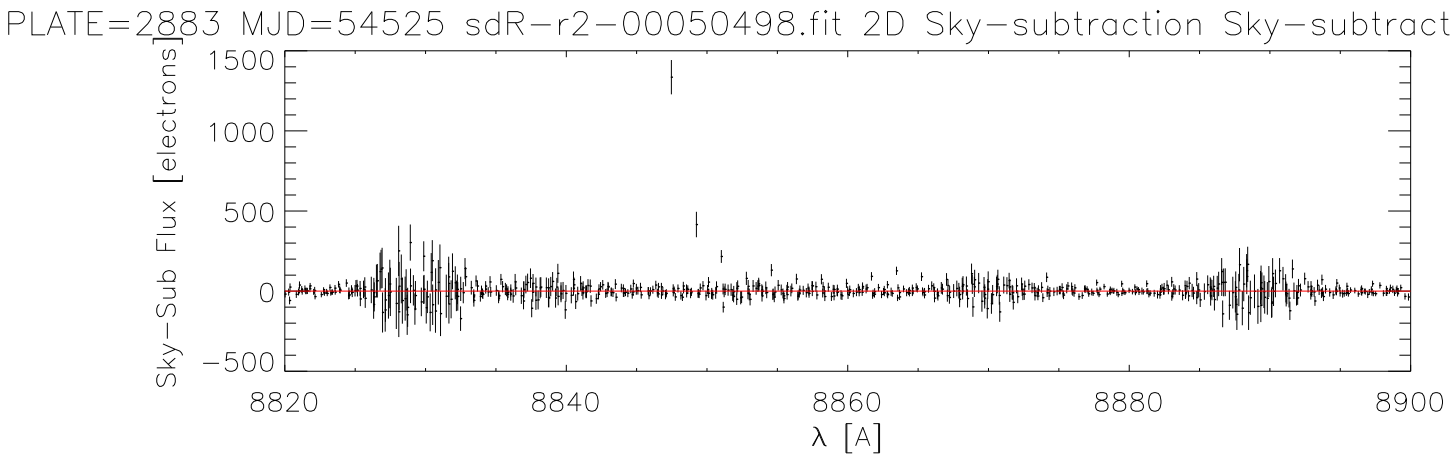

PLATE=2883 MJD=54525 sdR-r2-00050498.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

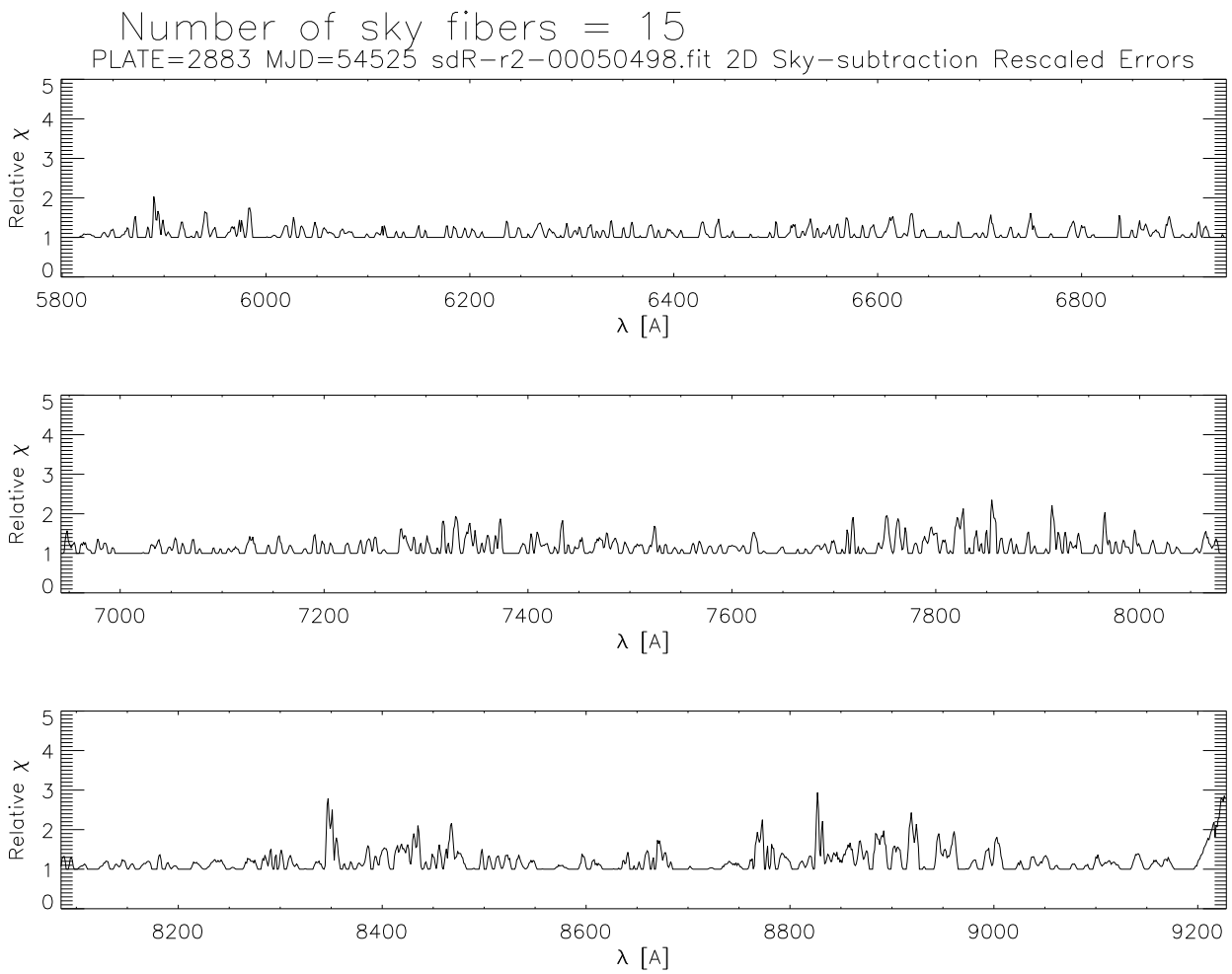

PLATE=2883 MJD=54525 sdR-r2-00050498.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

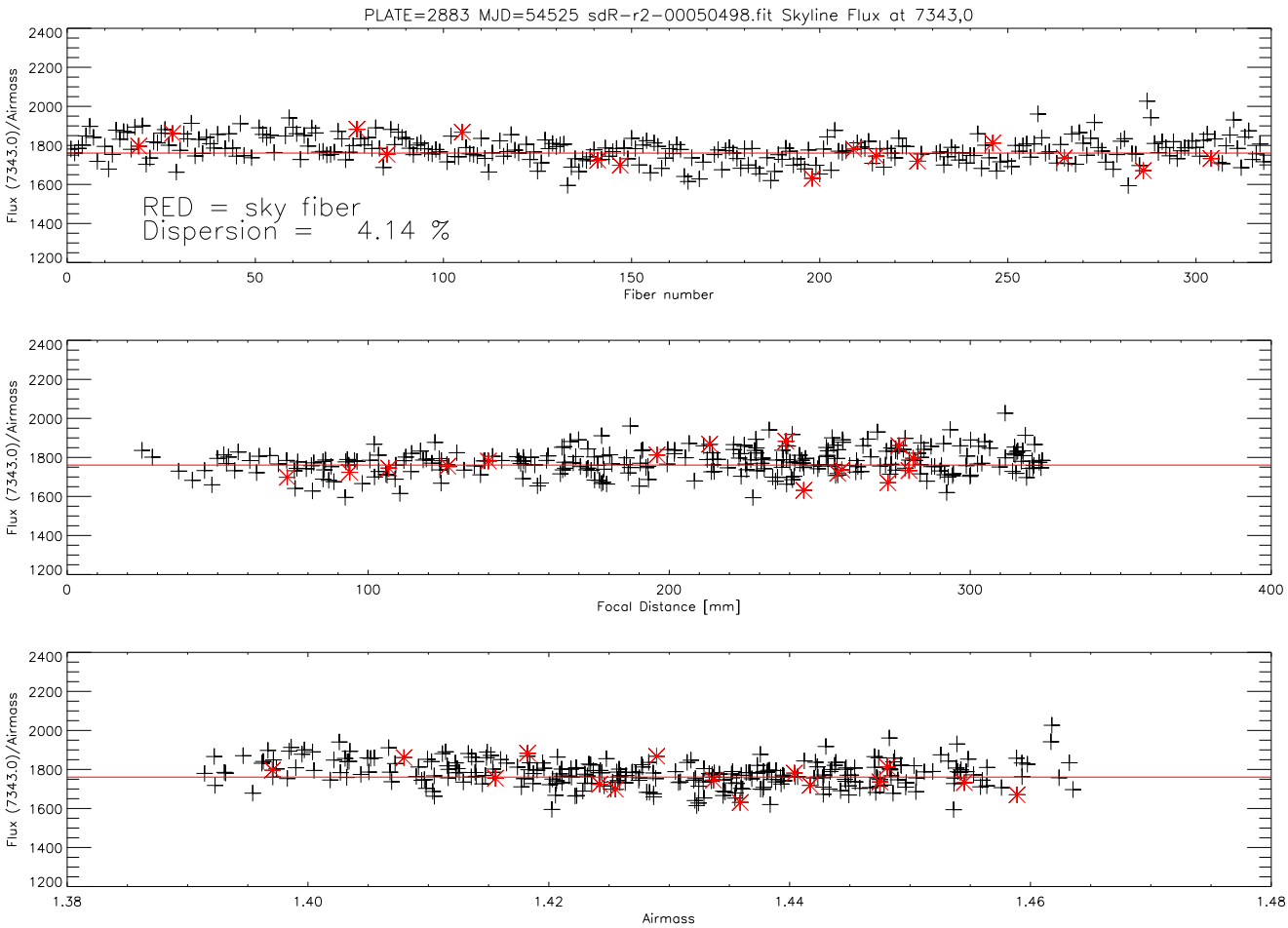

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-r2-00050498.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

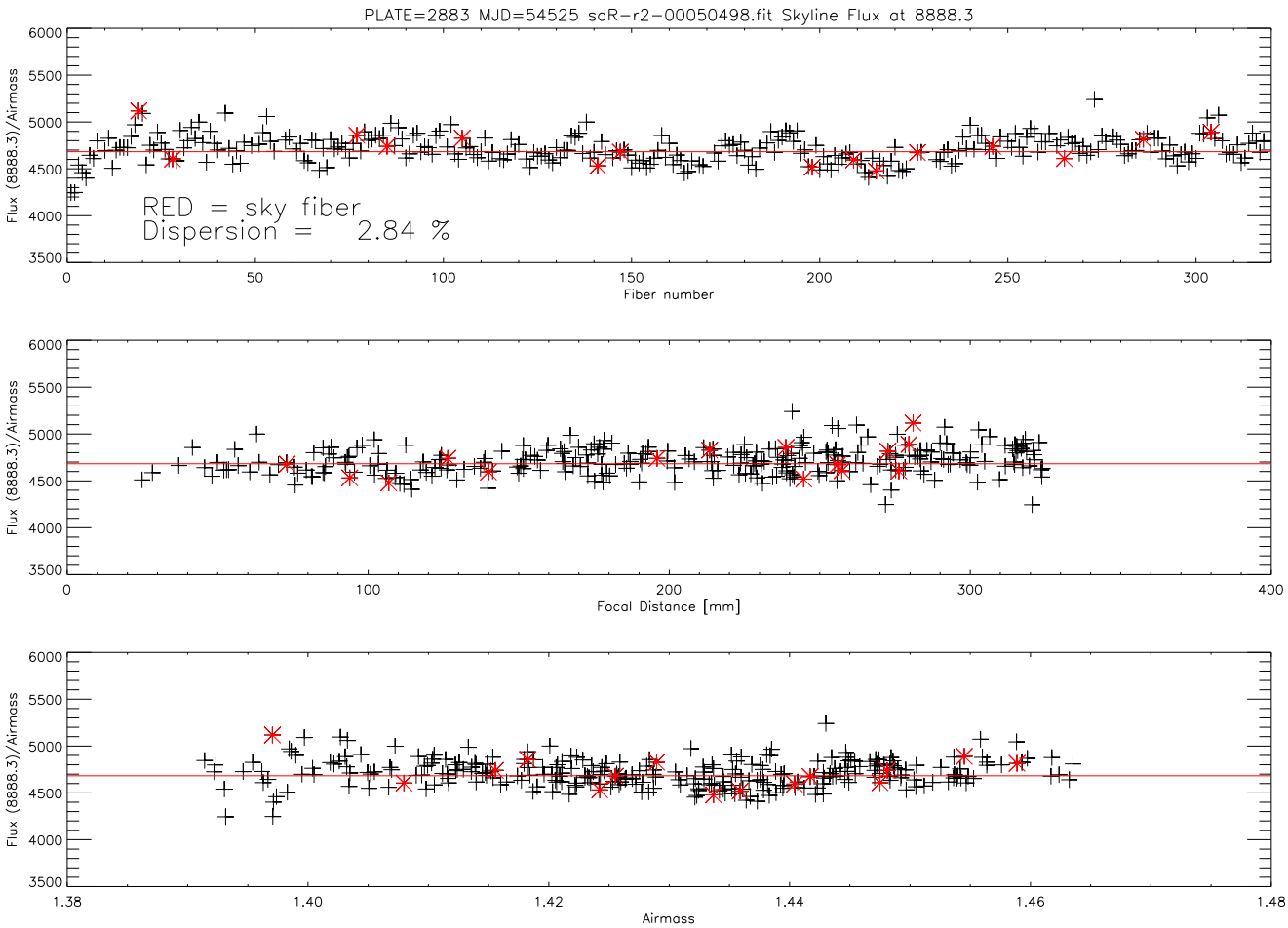

PLATE=2883 MJD=54525 sdR-r2-00050498.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

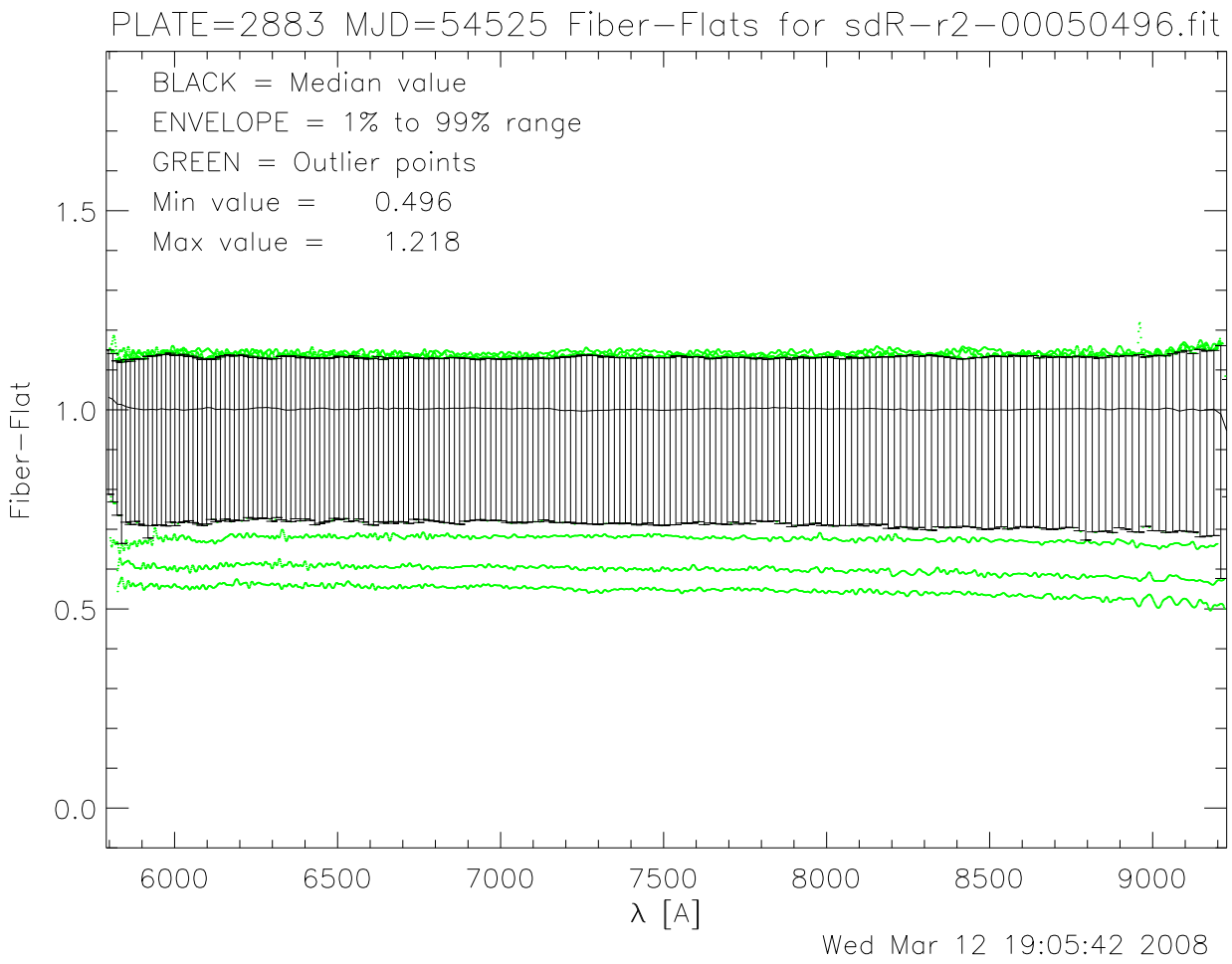

PLATE=2883 MJD=54525 sdR-r2-00050498.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

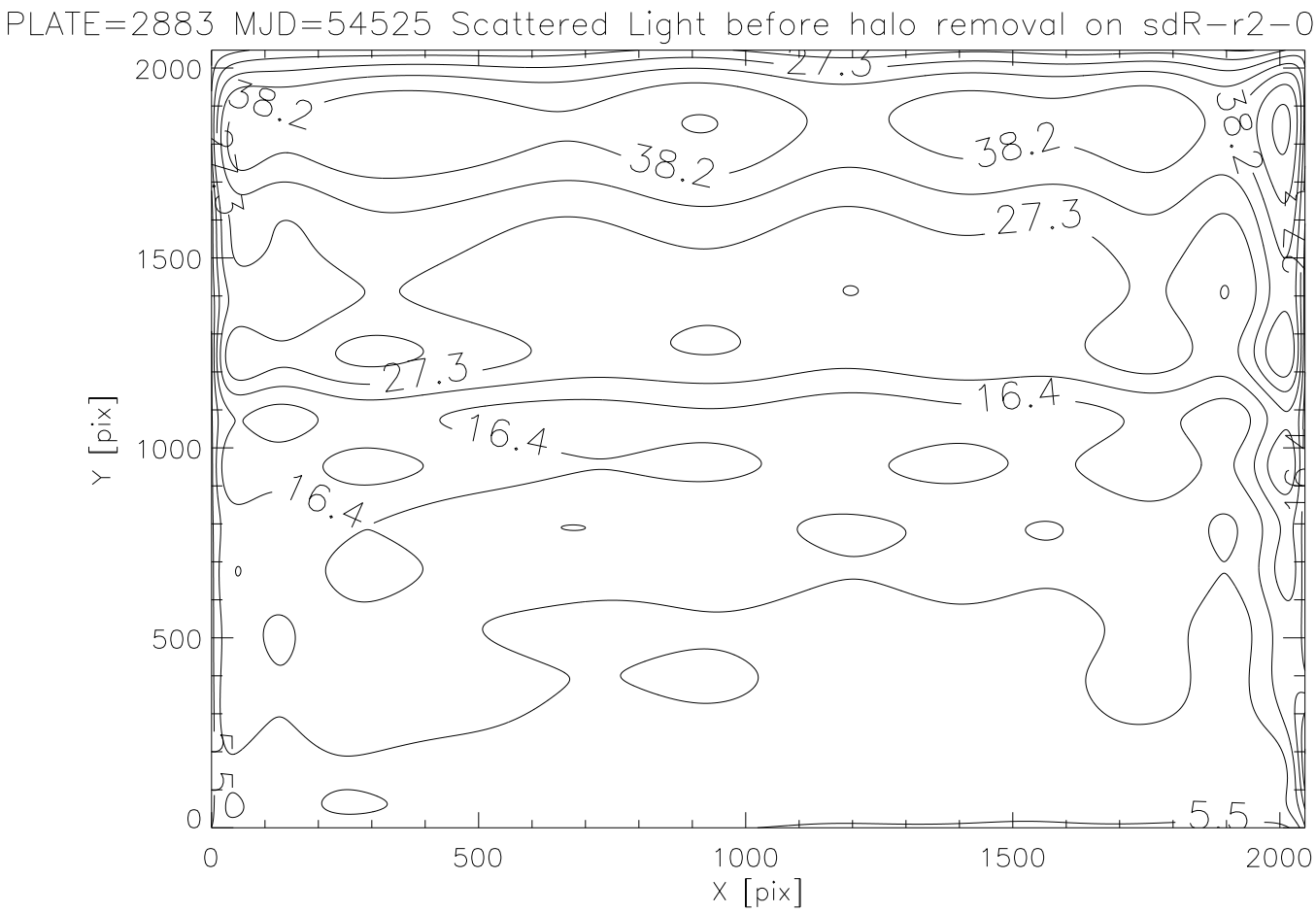

PLATE=2883 MJD=54525 sdR-r2-00050498.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

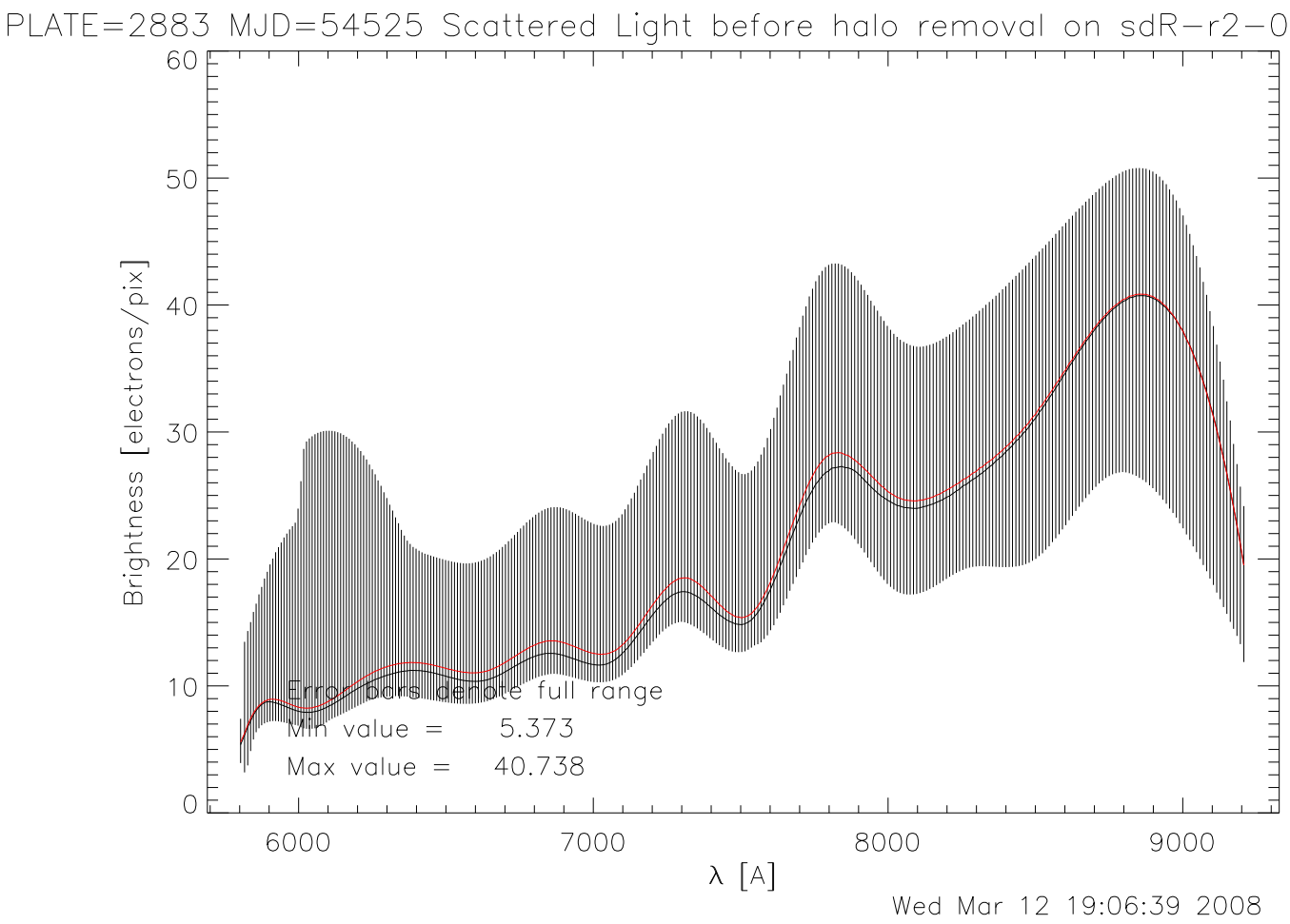

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-r2-00050498.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

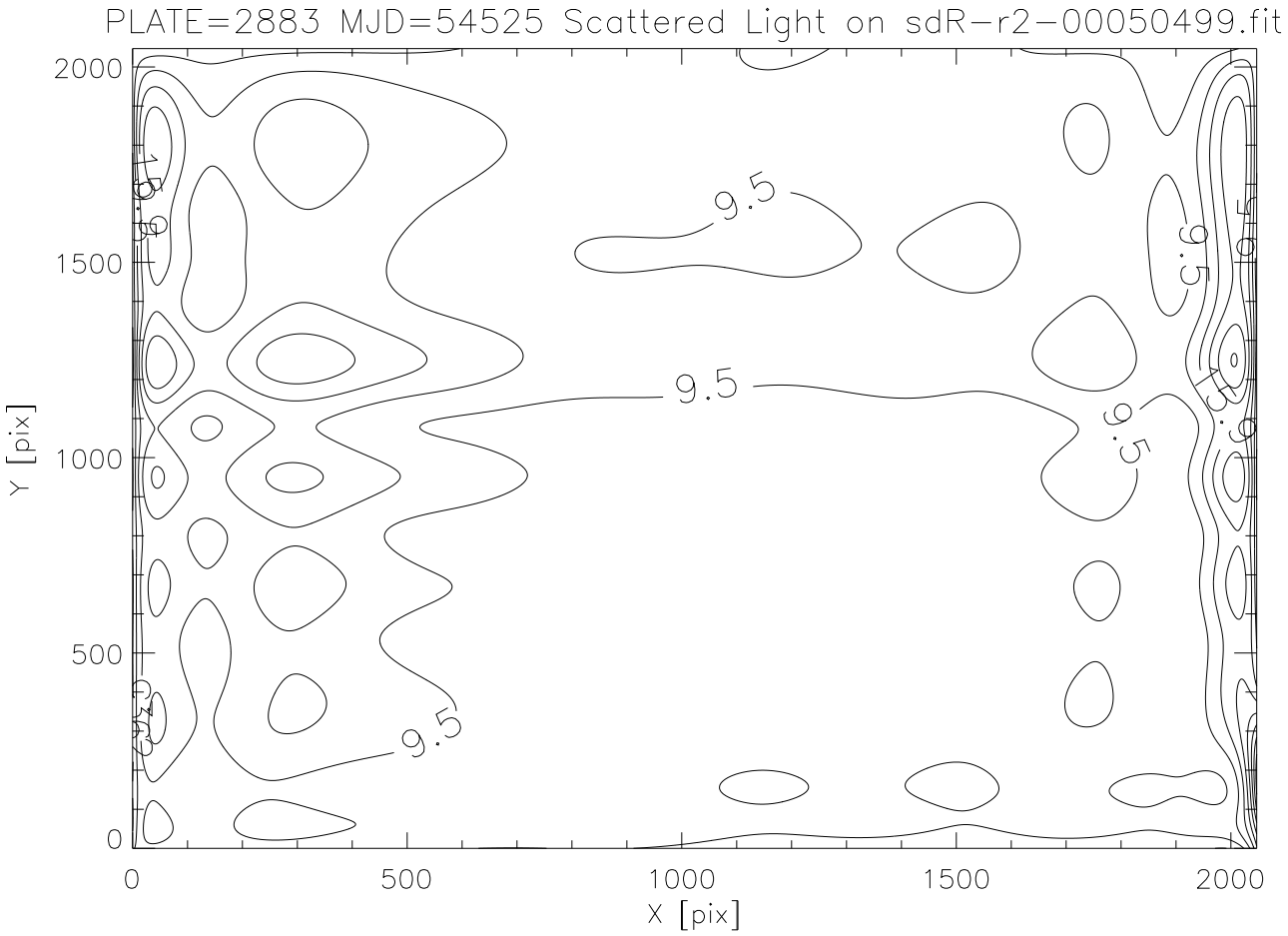

PLATE=2883 MJD=54525 sdR-r2-00050498.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.14 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

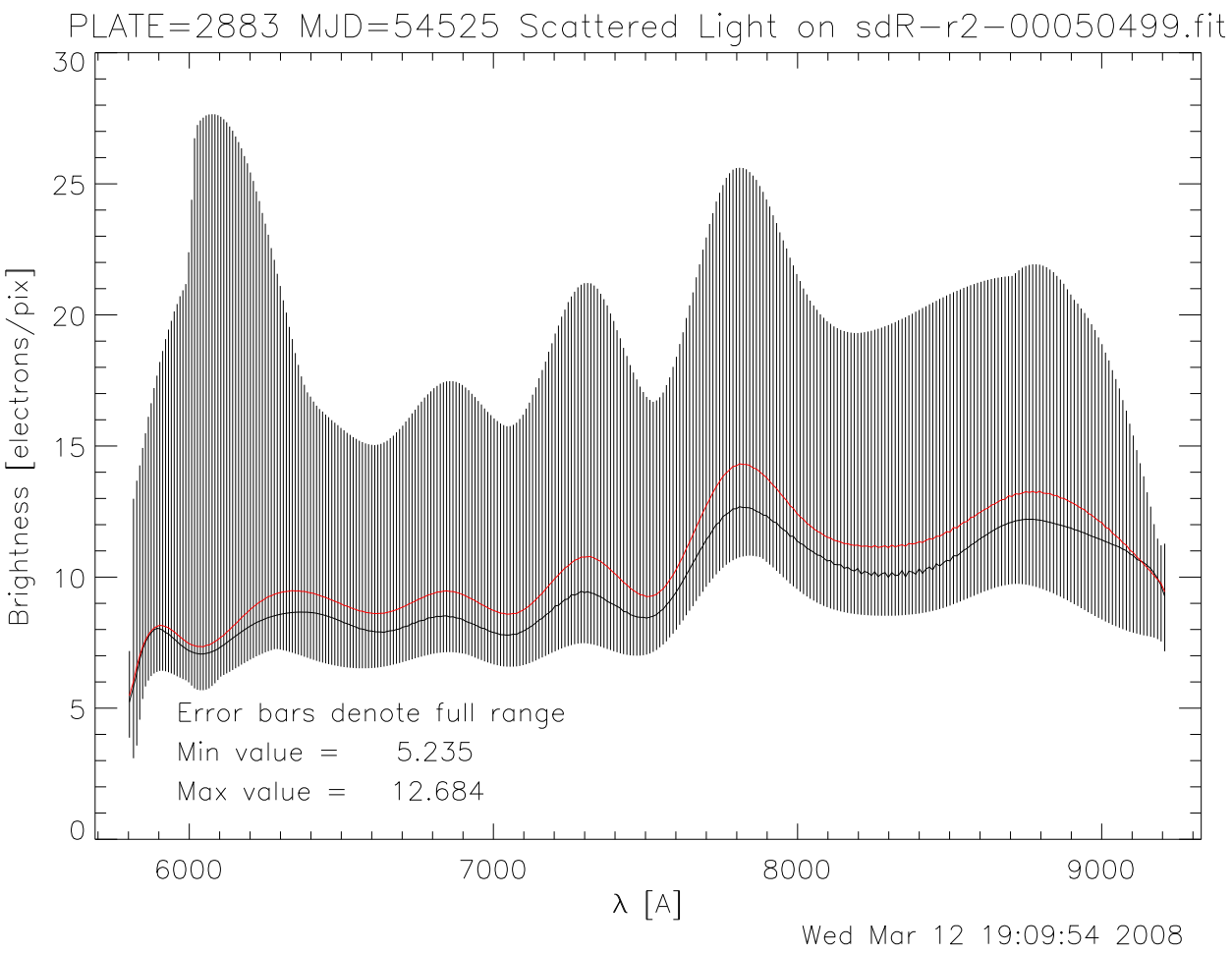

PLATE=2883 MJD=54525 sdR-r2-00050498.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.84 %
Fiber number
Focal Distance [mm]
Airmass

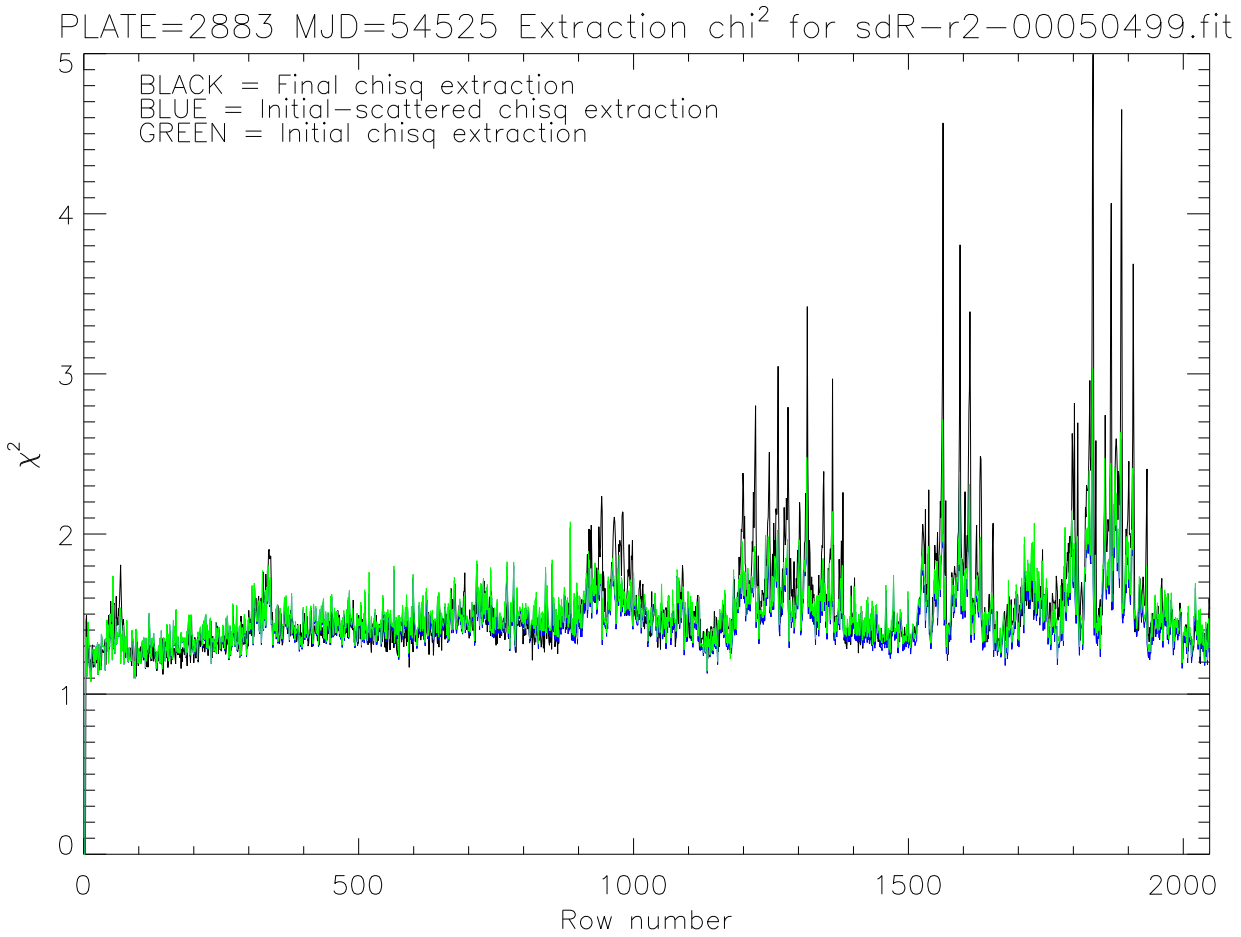

PLATE=2883 MJD=54525 Fiber−Flats for sdR−r2−00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.496
Max value = 1.218
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:05:42 2008

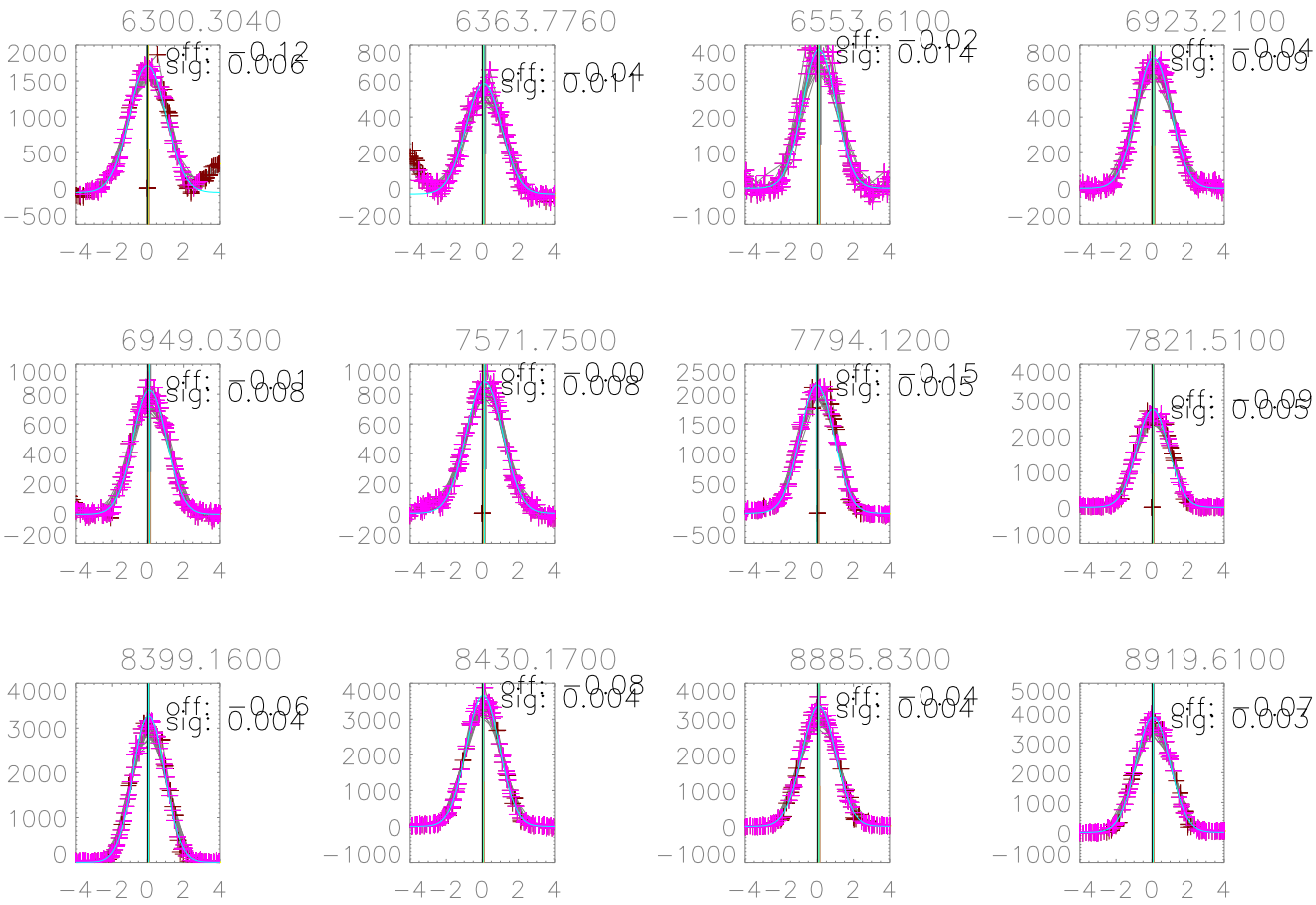

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r2-00050499.fi
27.3
38.2
38.2
38.2
38.2
27.3
27.3
16.4
16.4
16.4
16.4
5.5
0
0
0
0
500
1000
1500
2000
0
500
1000
1500
2000
Y [pix]
X [pix]

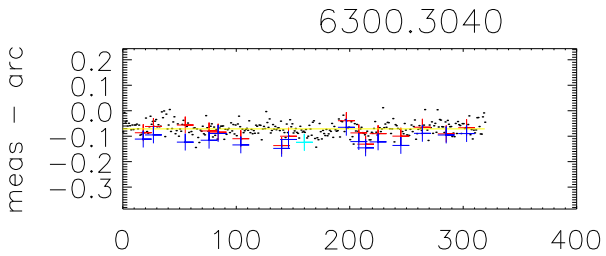

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r2-00050499.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.373
Max value = 40.738
Wed Mar 12 19:06:39 2008

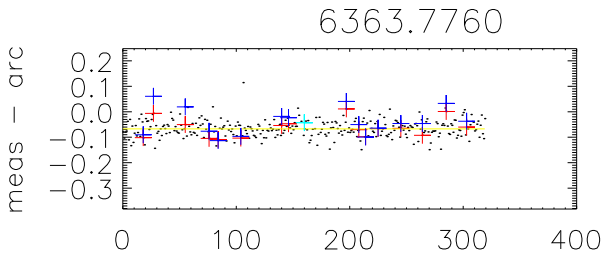

PLATE=2883 MJD=54525 Scattered Light on sdR-r2-00050499.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.5
9.5
9.5
9.5
9.5
9.5

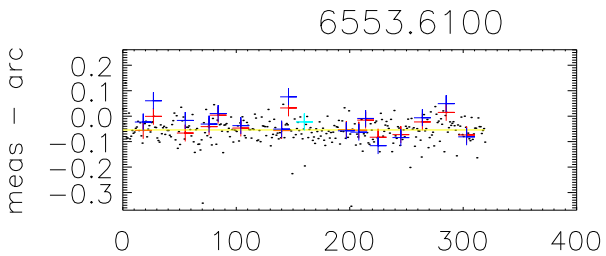

PLATE=2883 MJD=54525 Scattered Light on sdR-r2-00050499.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.235
Max value = 12.684
Wed Mar 12 19:09:54 2008

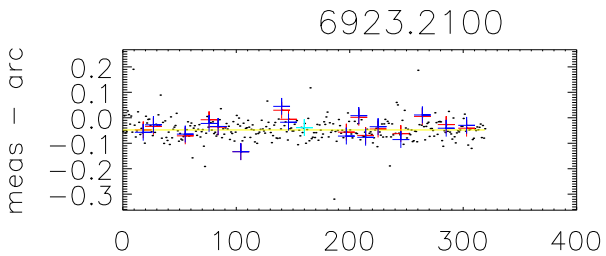

PLATE=2883 MJD=54525 Extraction chi^2 for sdR−r2−00050499.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

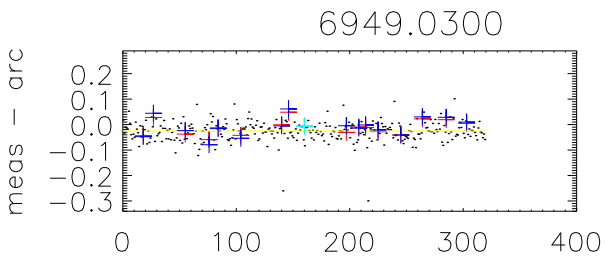

6300.3040
off: −0.12
sig: 0.006
6363.7760
off: −0.04
sig: 0.011
6553.6100
off: −0.02
sig: 0.014
6923.2100
off: −0.04
sig: 0.009
6949.0300
off: −0.01
sig: 0.008
7571.7500
off: −0.00
sig: 0.008
7794.1200
off: −0.15
sig: 0.005
7821.5100
off: −0.09
sig: 0.005
8399.1600
off: −0.06
sig: 0.004
8430.1700
off: −0.08
sig: 0.004
8885.8300
off: −0.04
sig: 0.004
8919.6100
off: −0.07
sig: 0.003

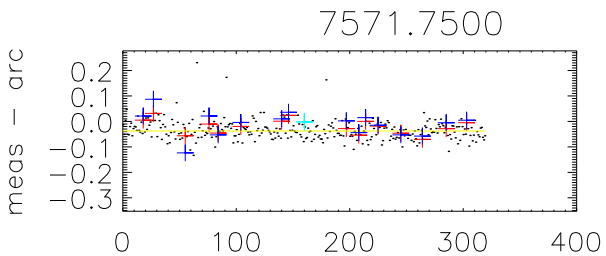

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

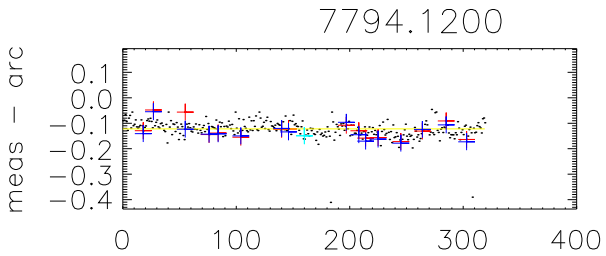

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

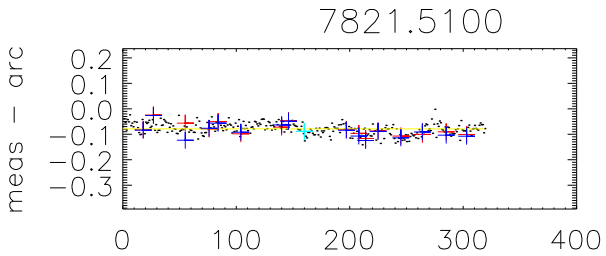

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

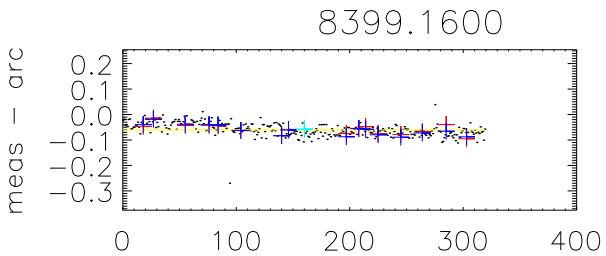

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

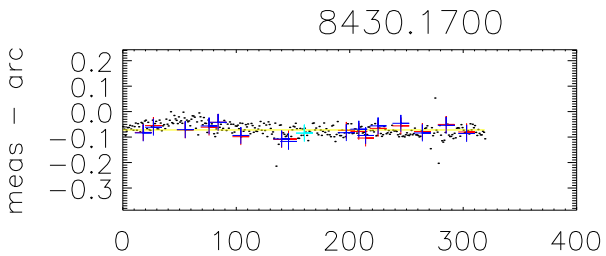

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

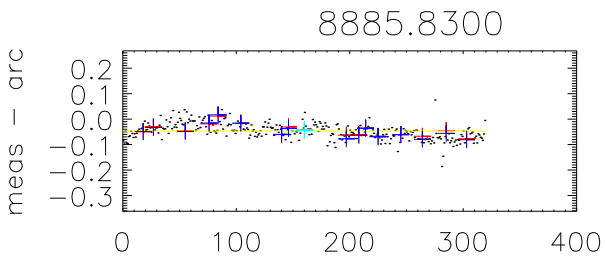

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

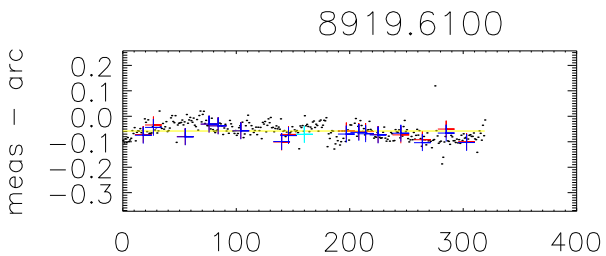

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

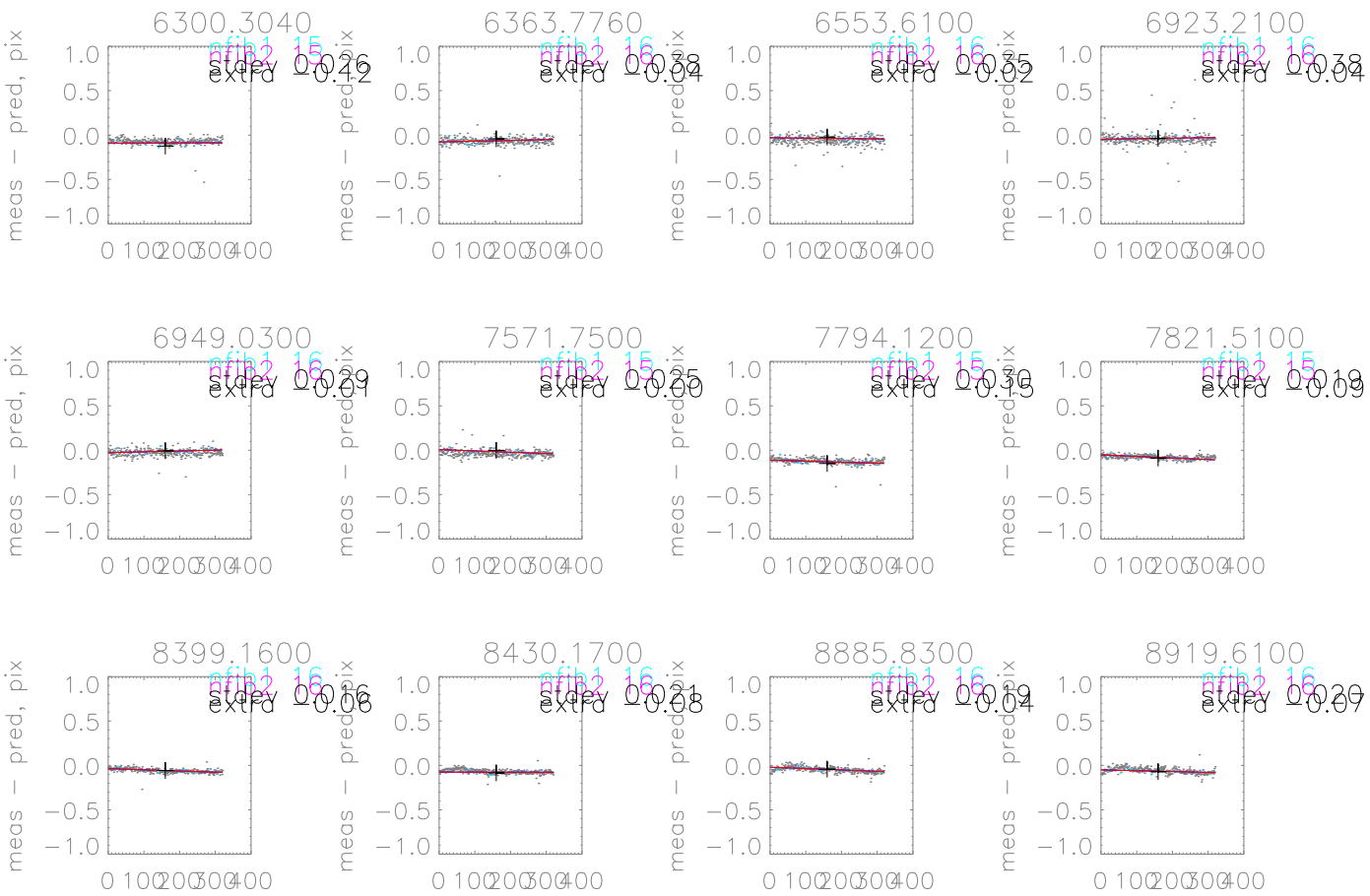

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

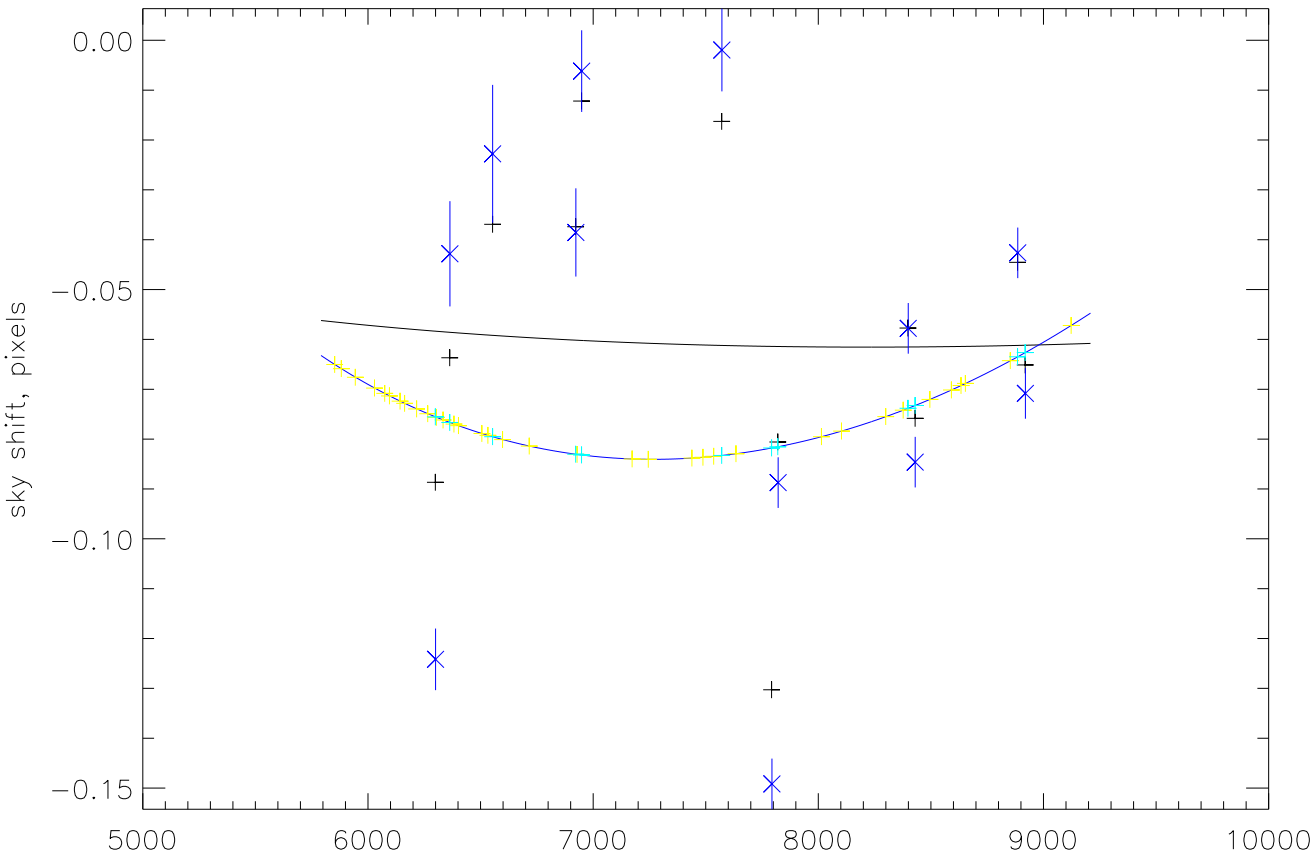

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

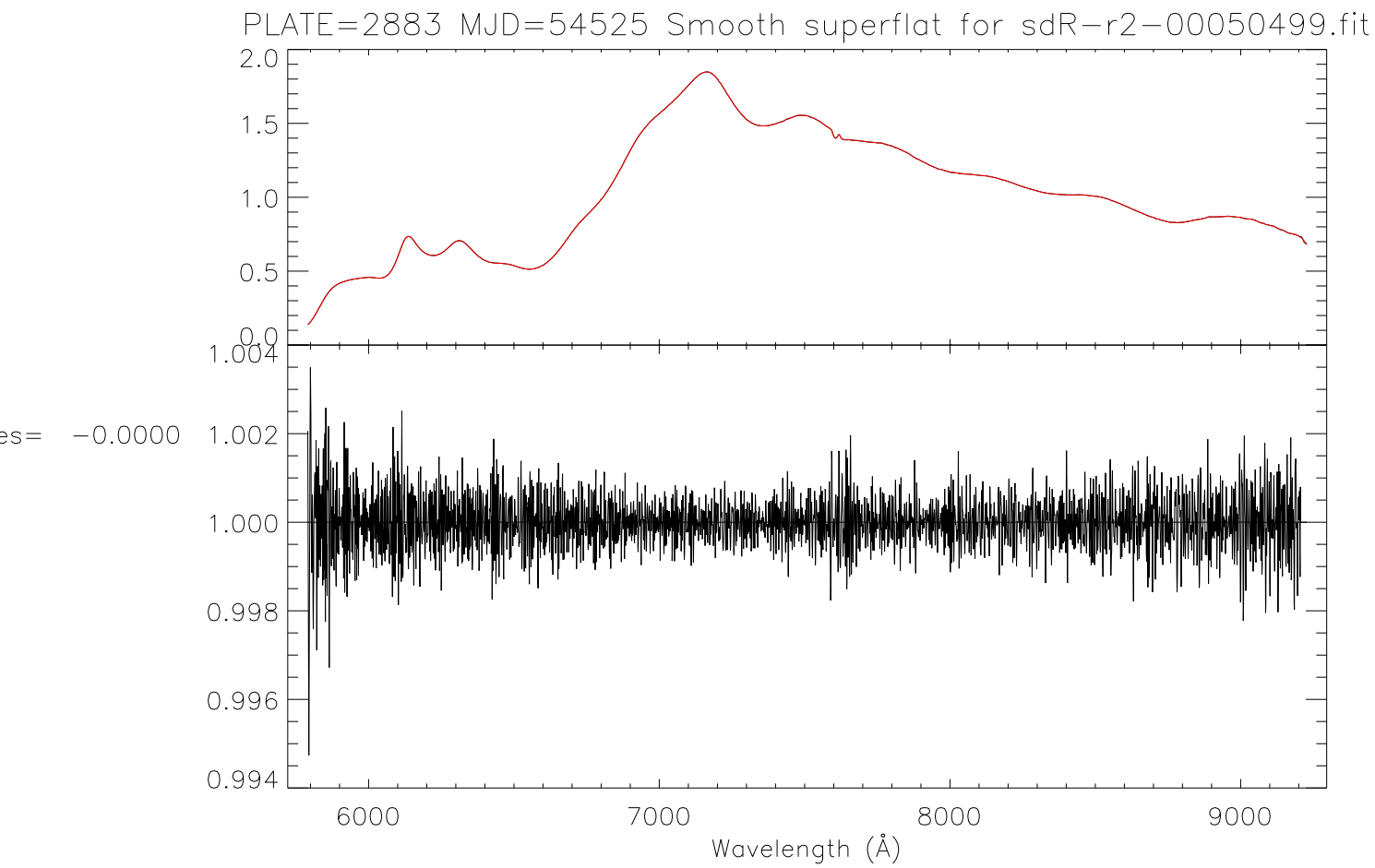

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

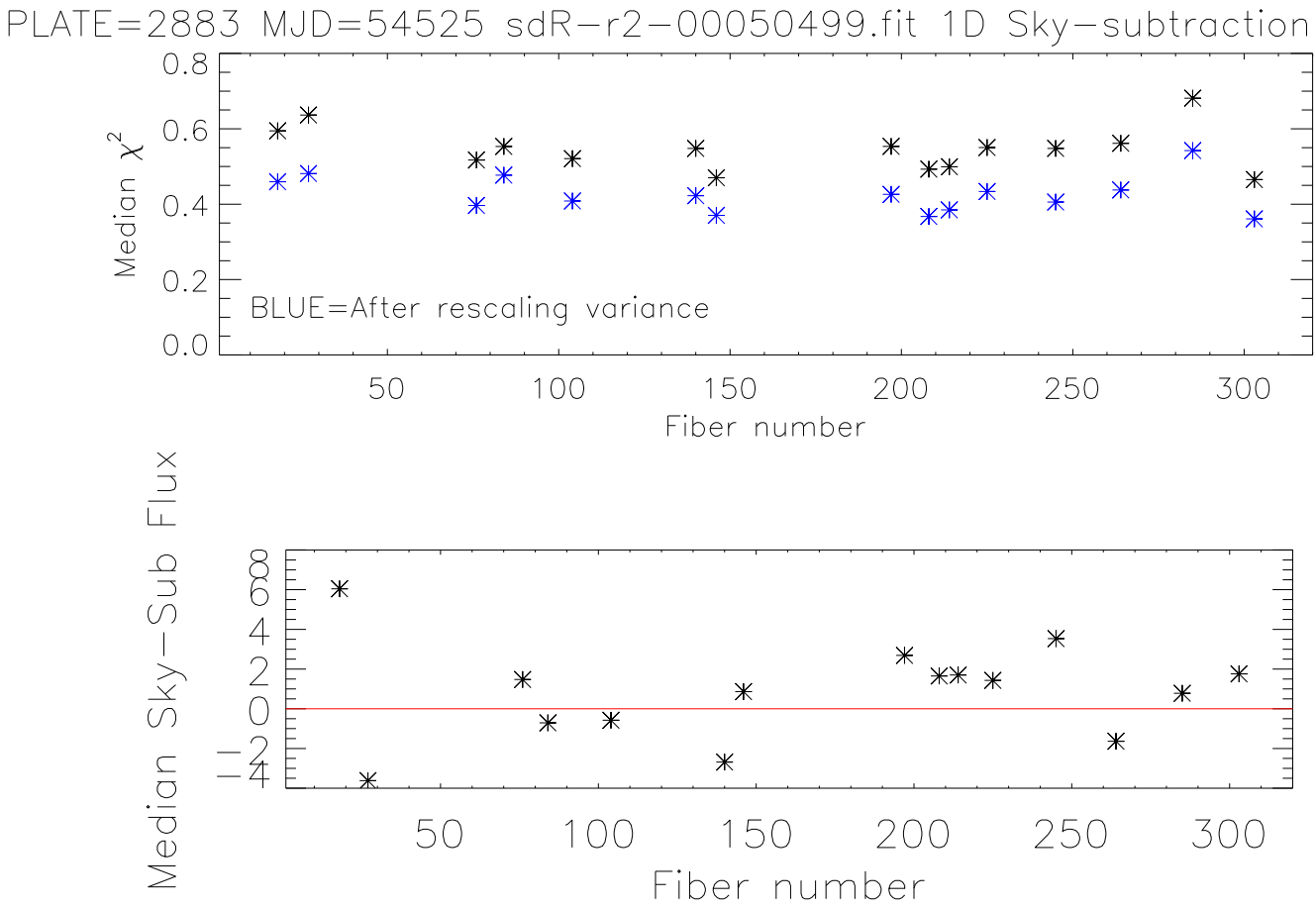

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

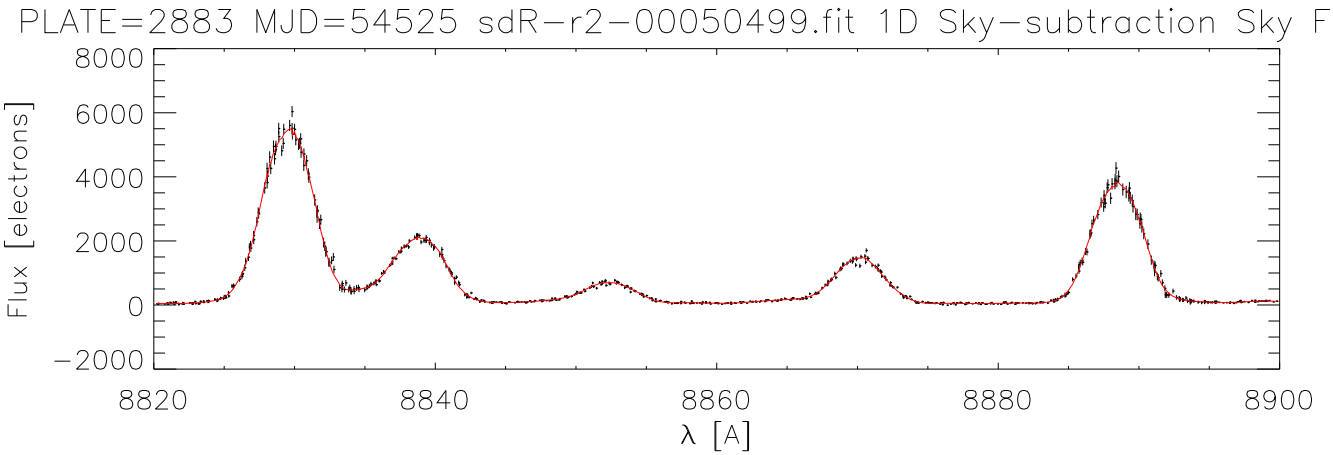

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

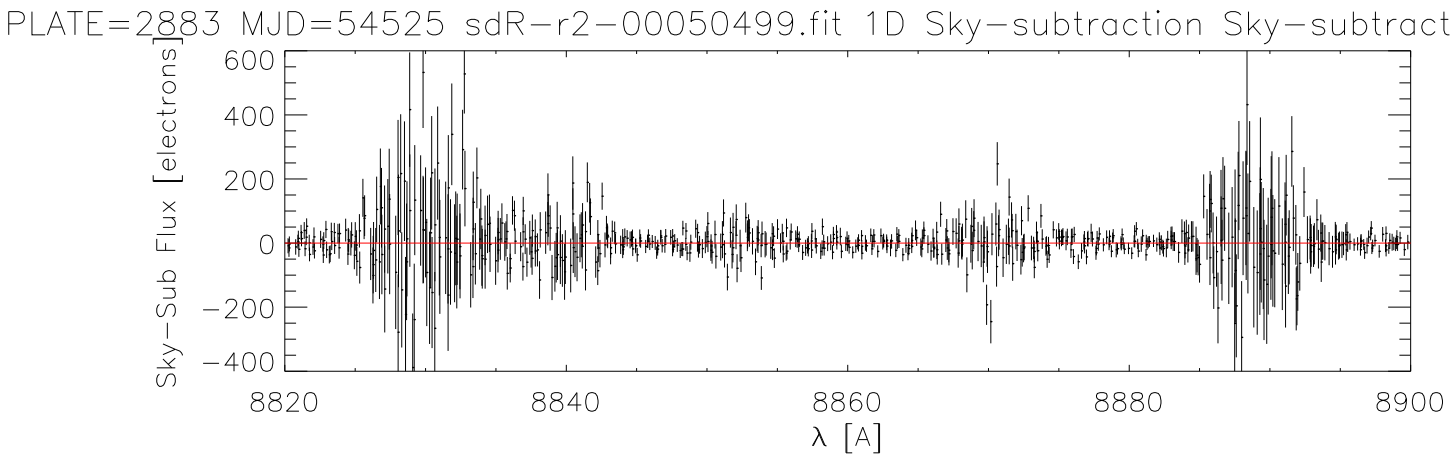

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 16
mfib2 15
stdev 0.26
extrd 0.42
stdev 0.38
extrd 0.04
stdev 0.35
extrd 0.02
stdev 0.38
extrd 0.04
stdev 0.29
extrd 0.01
stdev 0.25
extrd 0.00
stdev 0.30
extrd 0.15
stdev 0.19
extrd 0.09
stdev 0.16
extrd 0.06
stdev 0.21
extrd 0.08
stdev 0.19
extrd 0.04
stdev 0.20
extrd 0.07

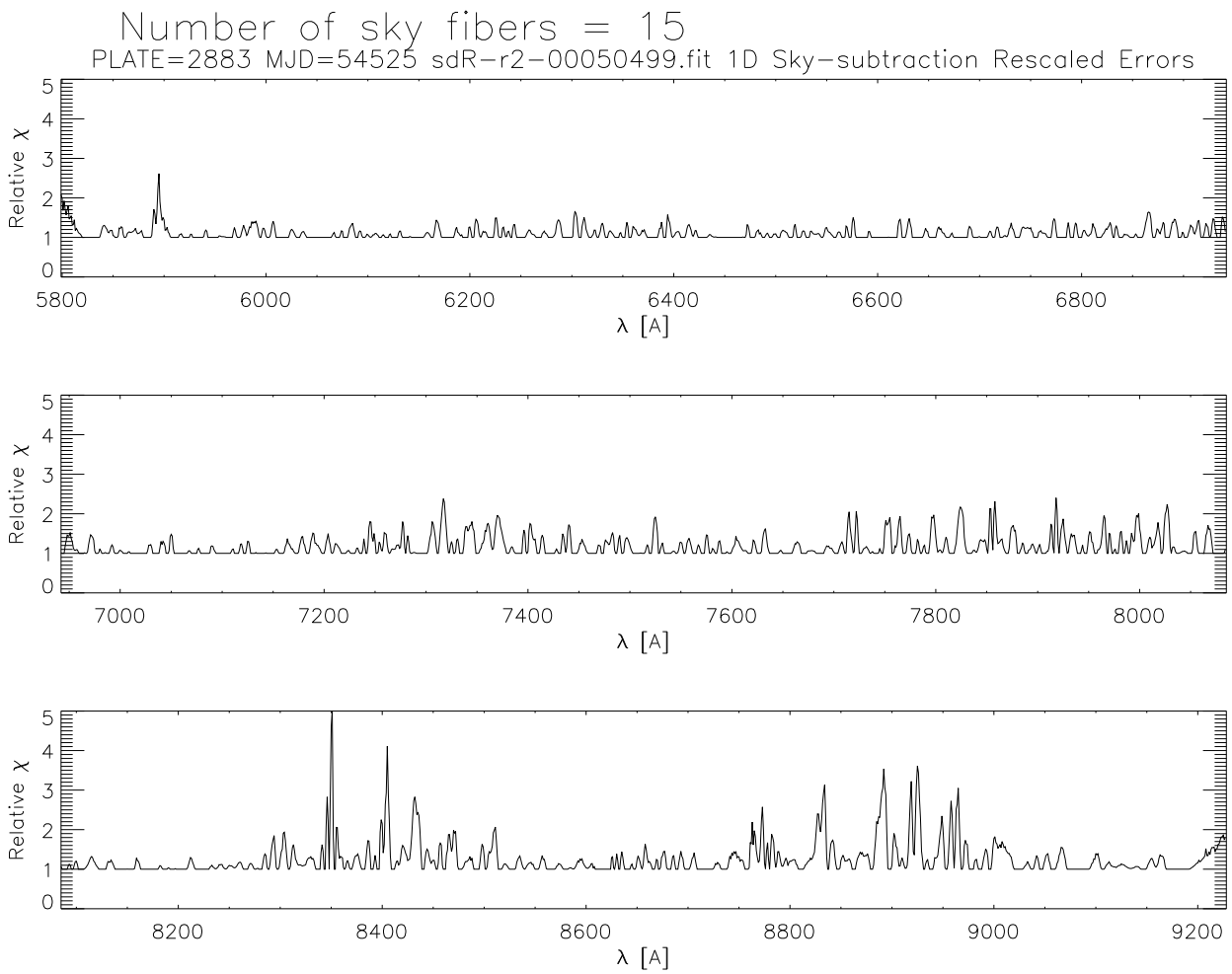

0.00
−0.05
−0.10
−0.15
sky shift, pixels
5000
6000
7000
8000
9000
10000

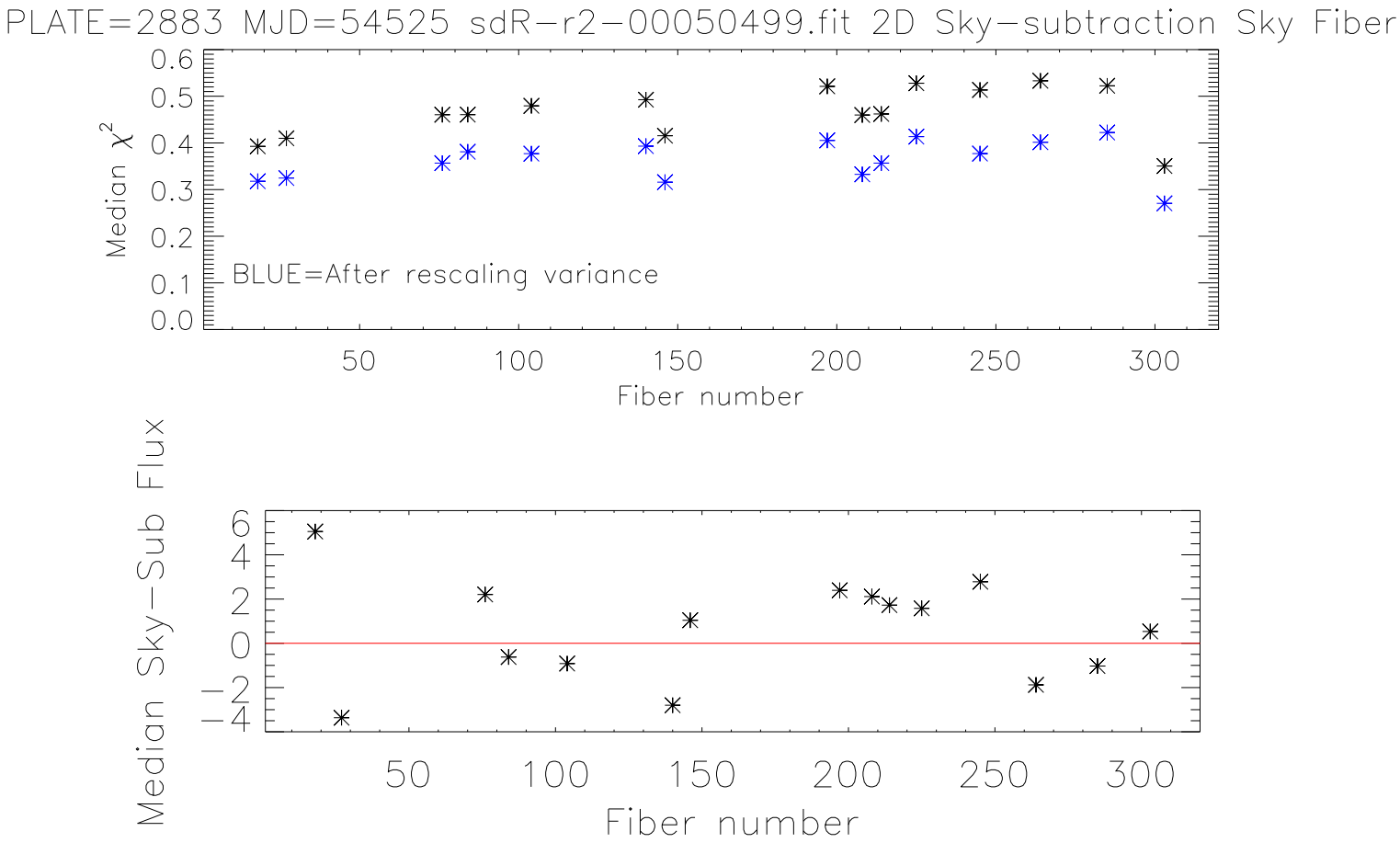

PLATE=2883 MJD=54525 Smooth superflat for sdR-r2-00050499.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

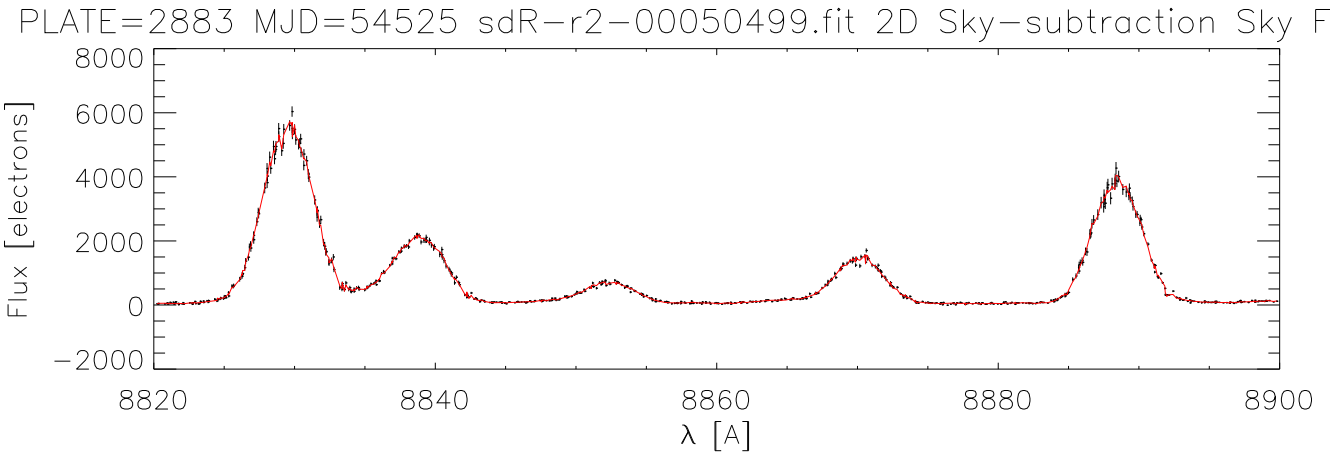

PLATE=2883 MJD=54525 sdR-r2-00050499.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

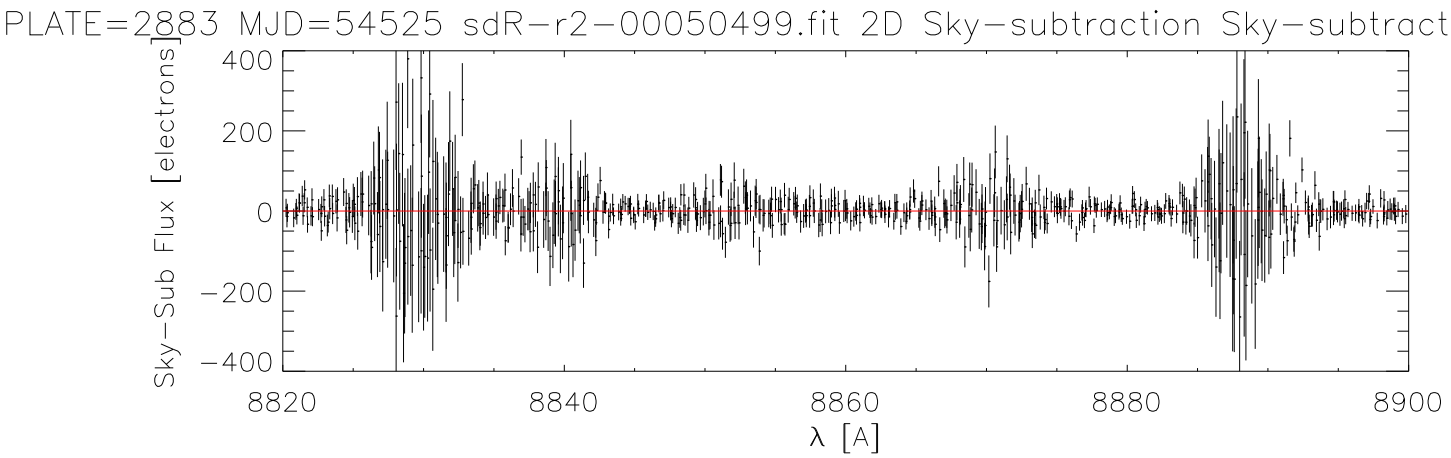

PLATE=2883 MJD=54525 sdR-r2-00050499.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

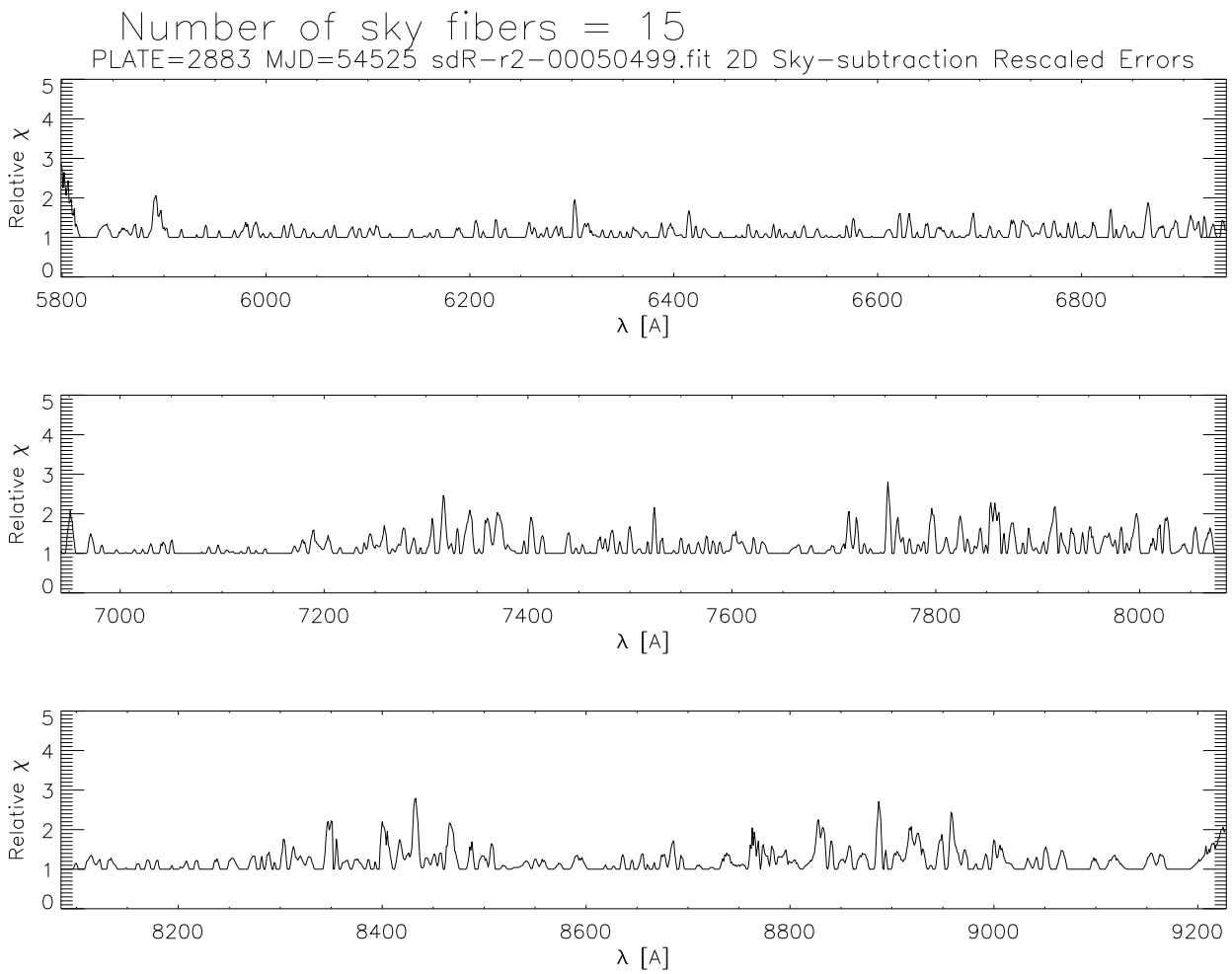

PLATE=2883 MJD=54525 sdR-r2-00050499.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

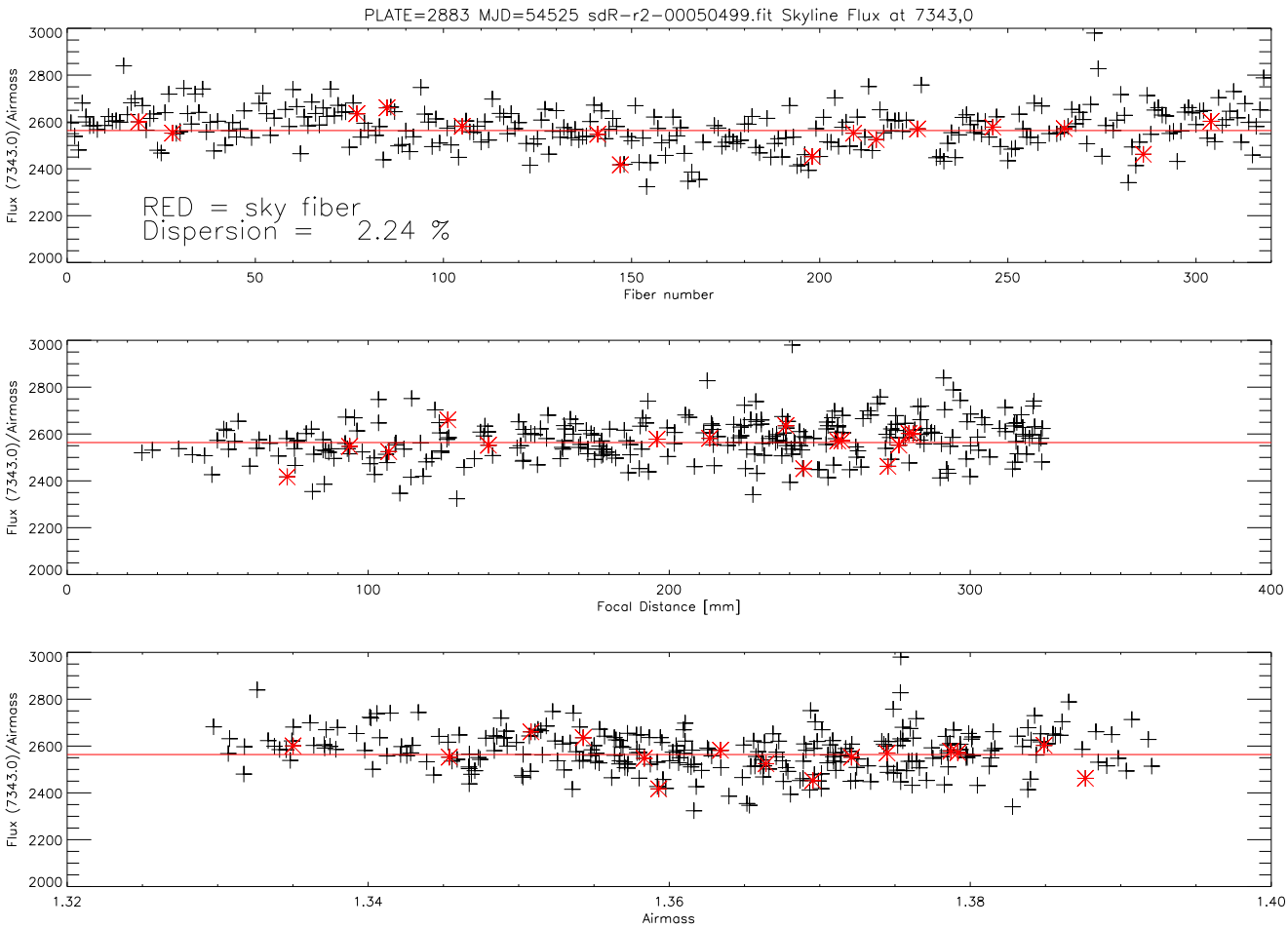

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-r2-00050499.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

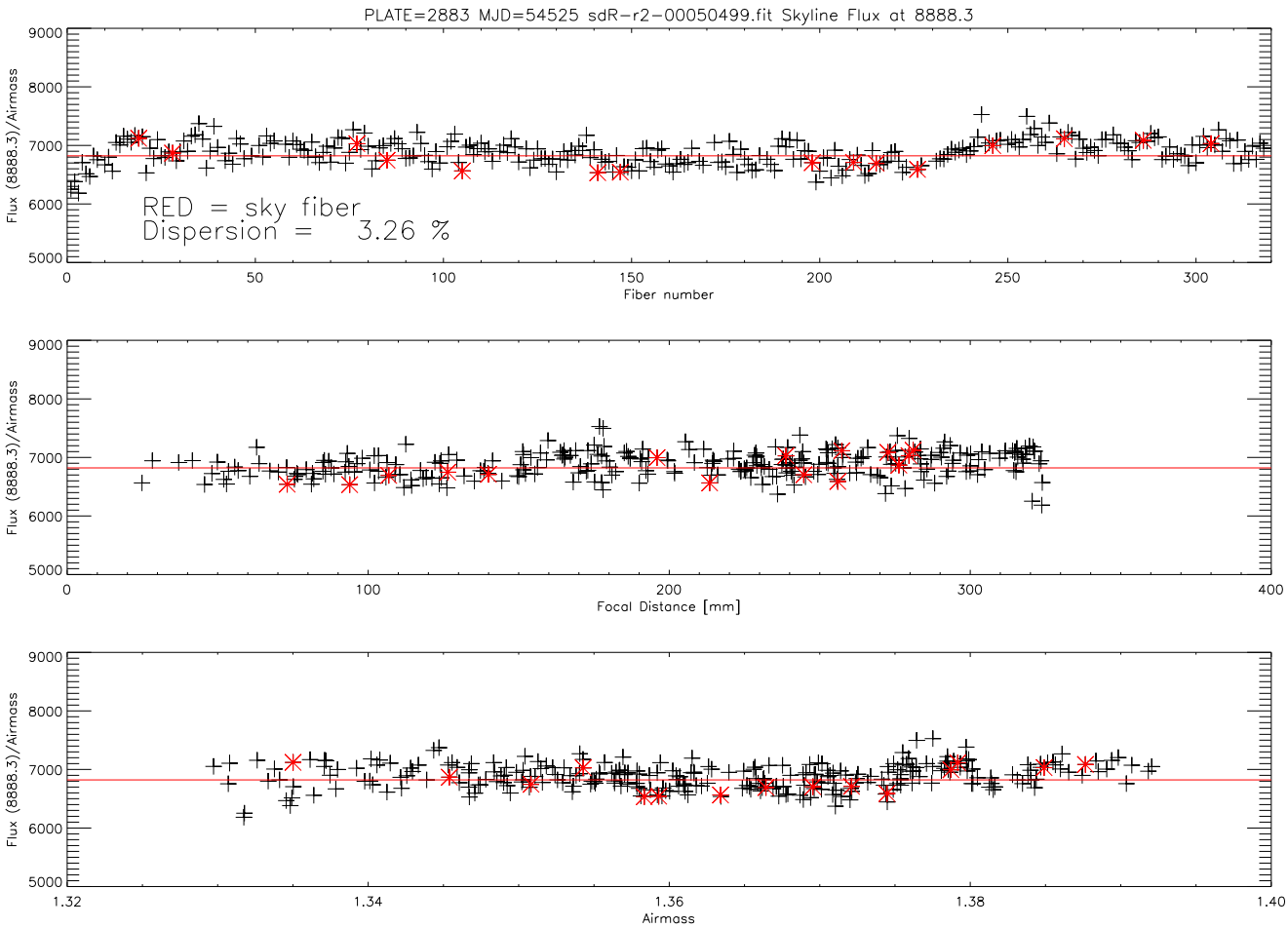

PLATE=2883 MJD=54525 sdR-r2-00050499.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

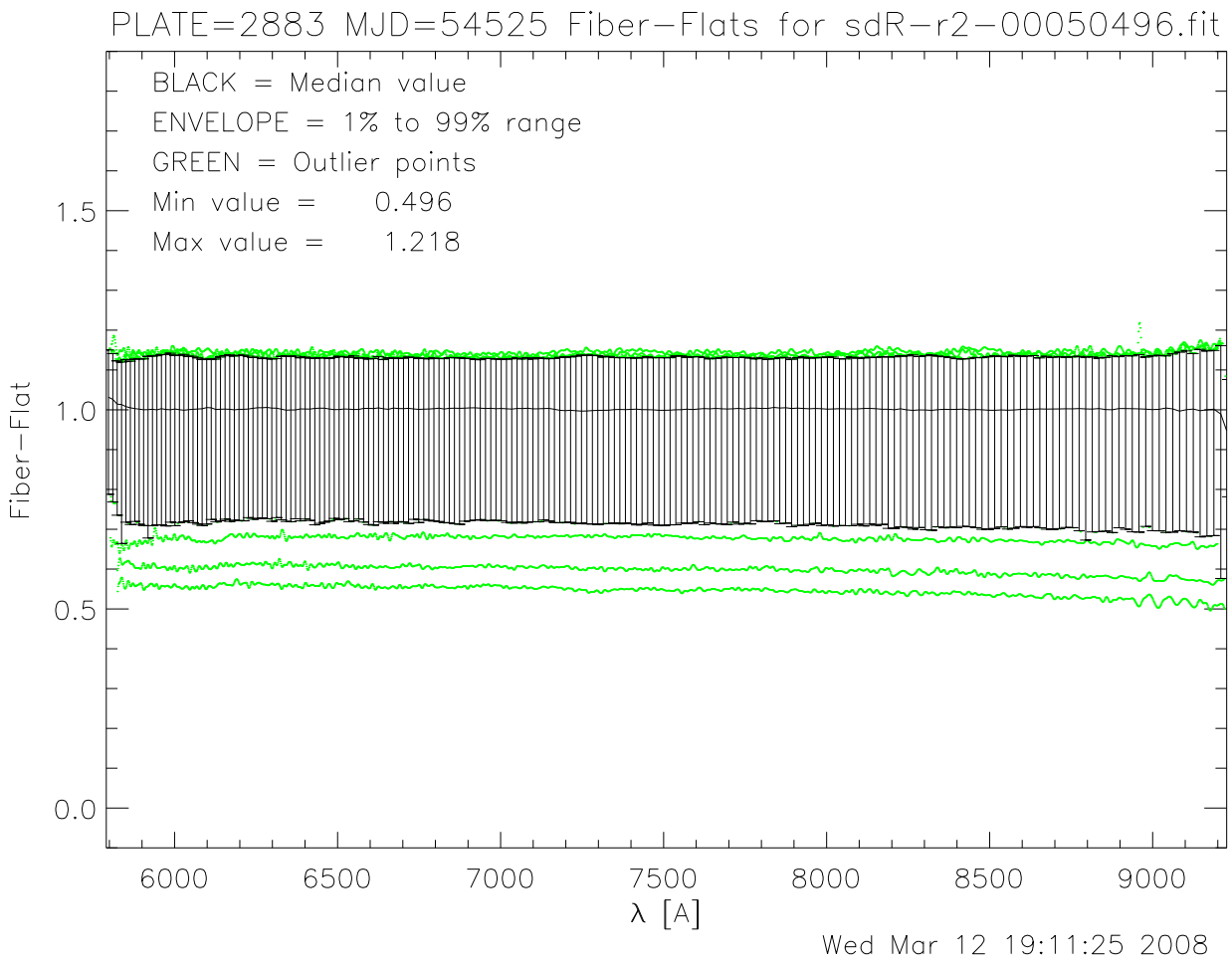

PLATE=2883 MJD=54525 sdR-r2-00050499.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

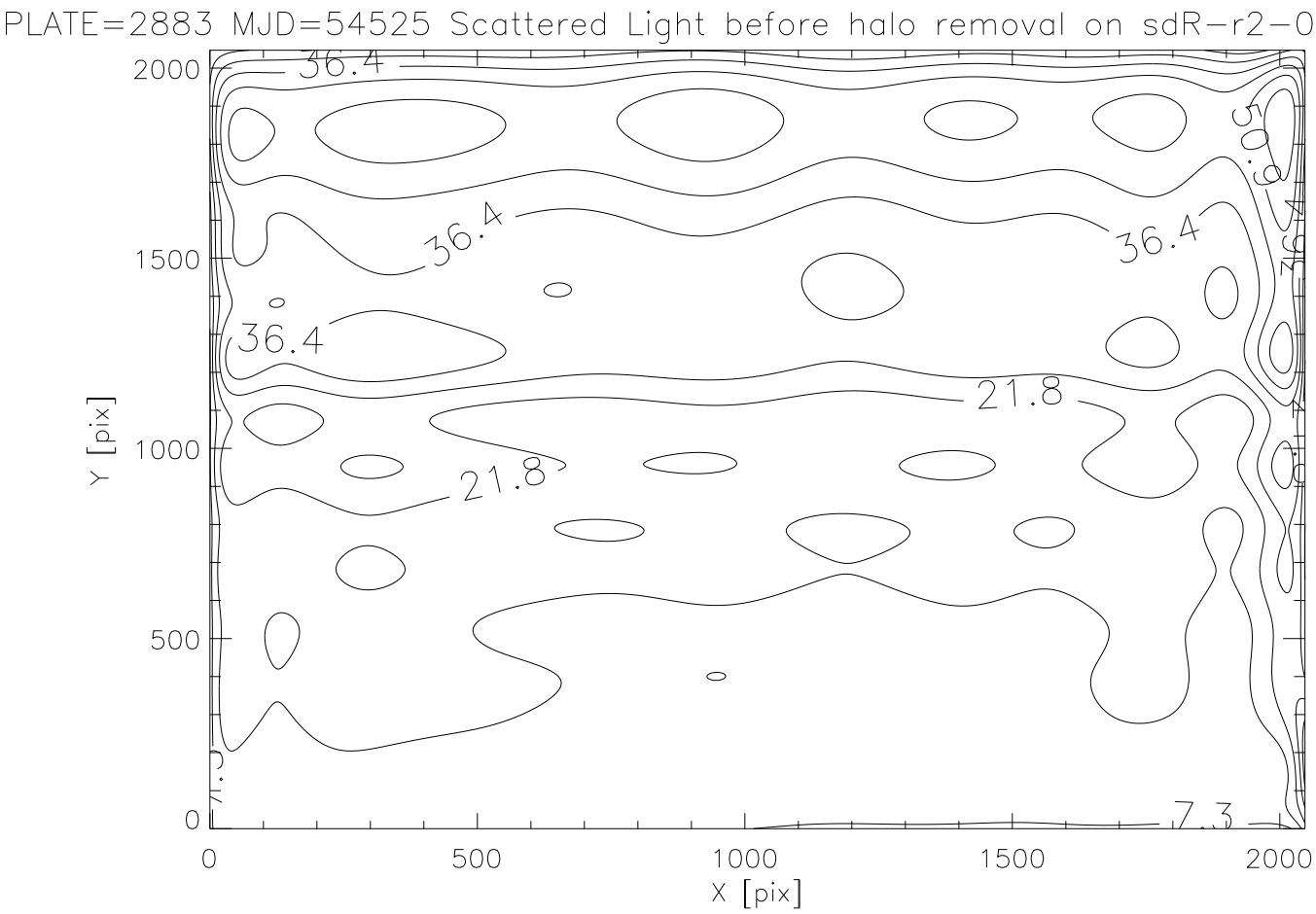

PLATE=2883 MJD=54525 sdR-r2-00050499.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

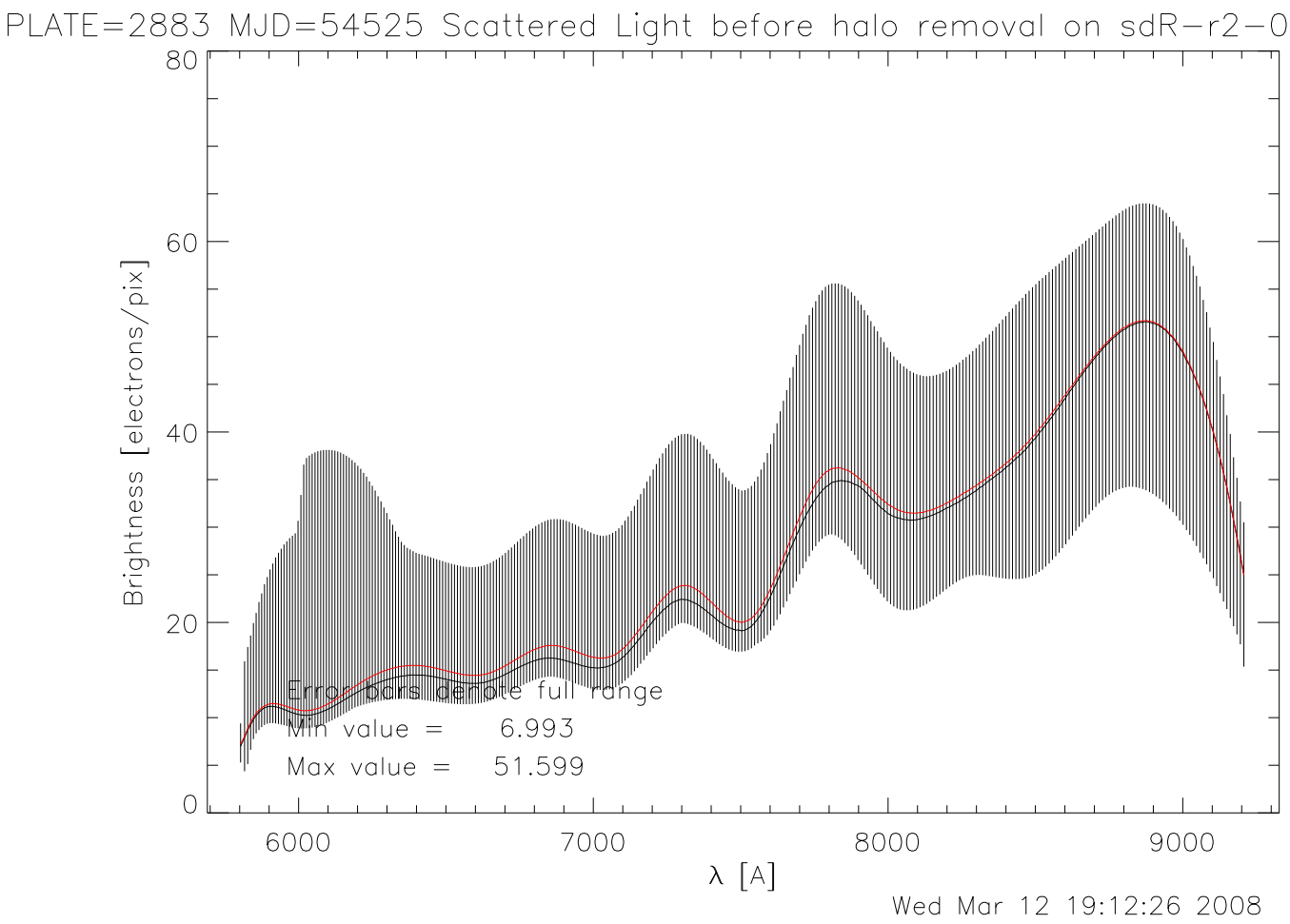

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-r2-00050499.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

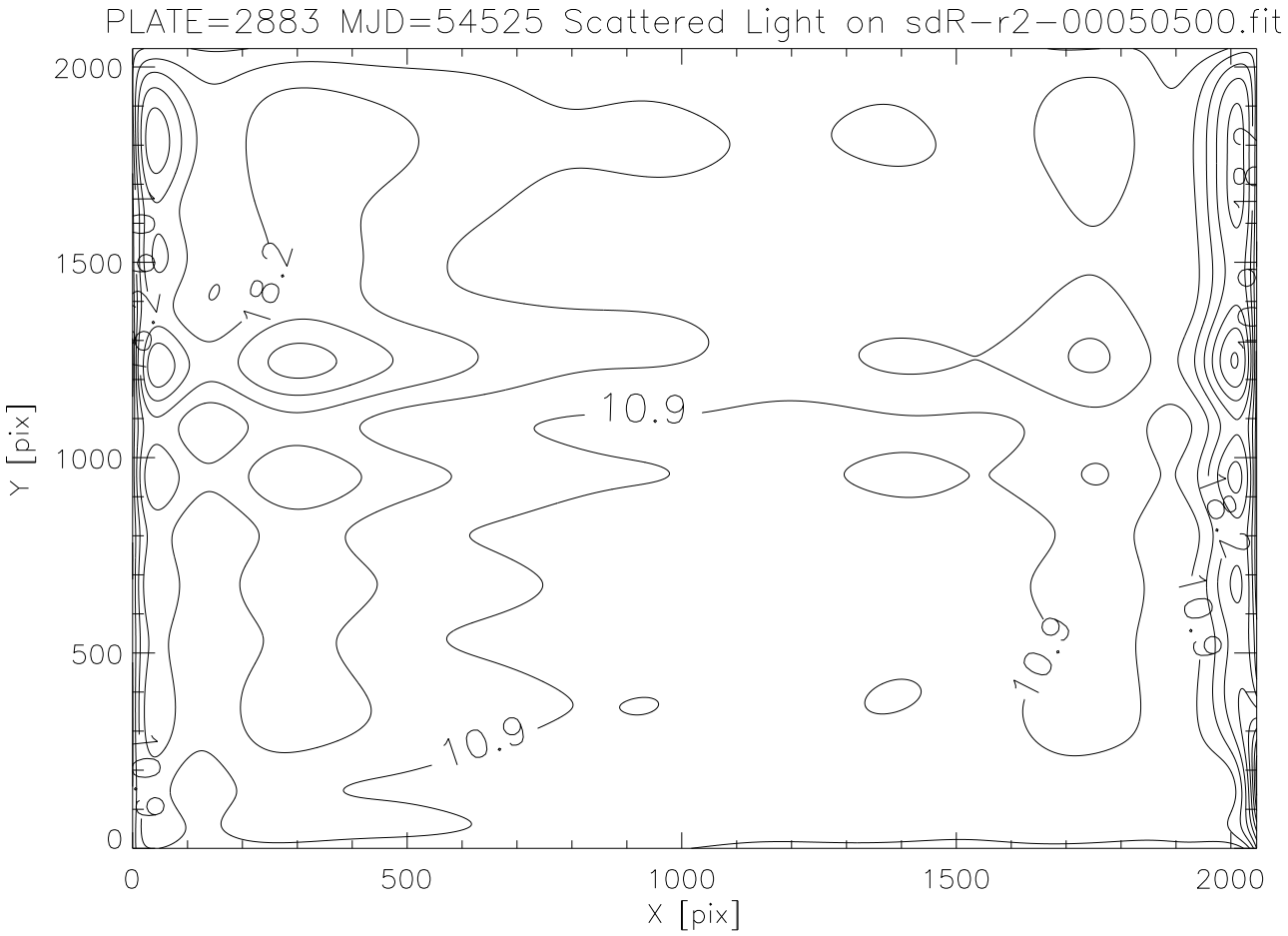

PLATE=2883 MJD=54525 sdR-r2-00050499.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.24 %
Fiber number
Focal Distance [mm]
Airmass

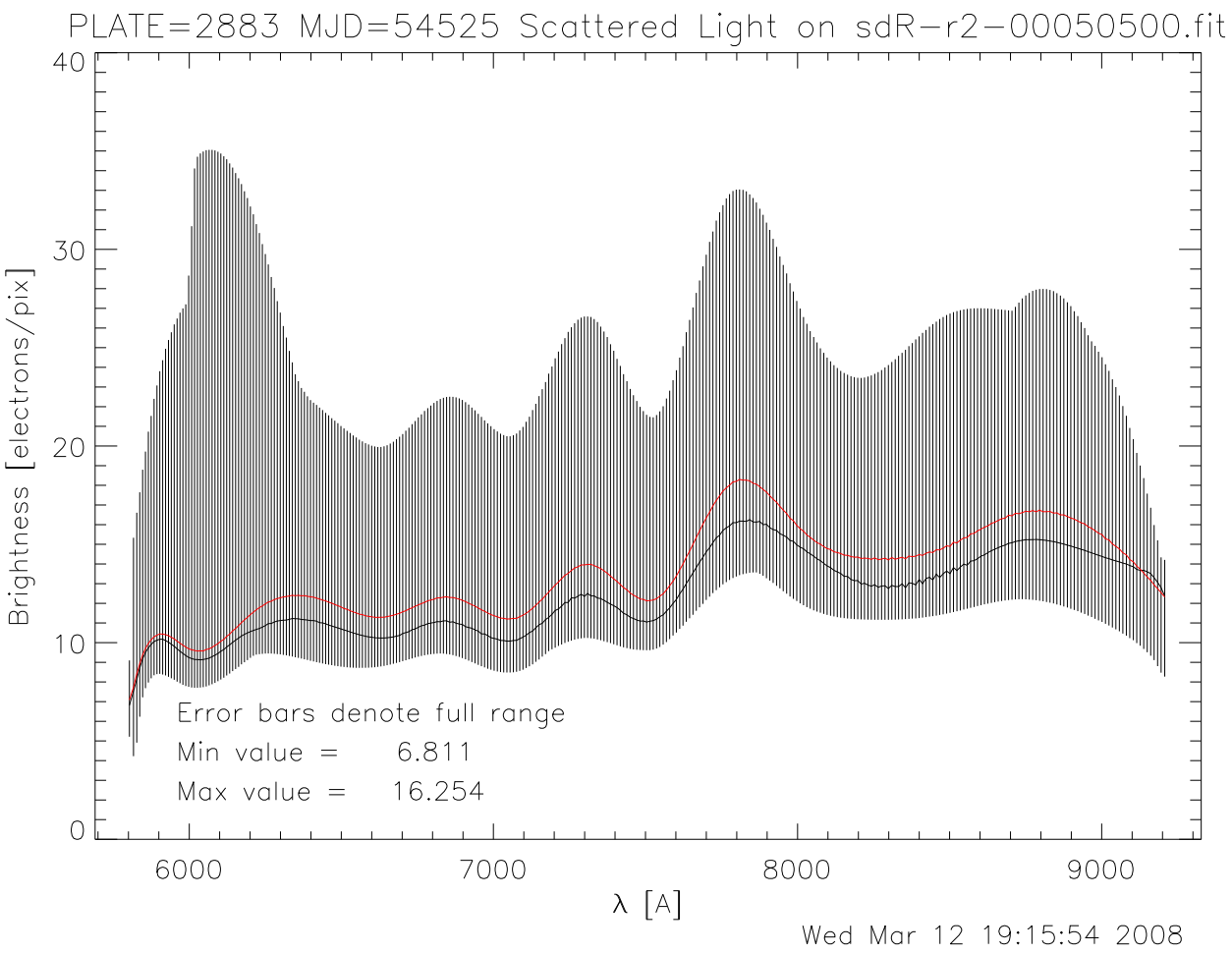

PLATE=2883 MJD=54525 sdR-r2-00050499.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.26 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

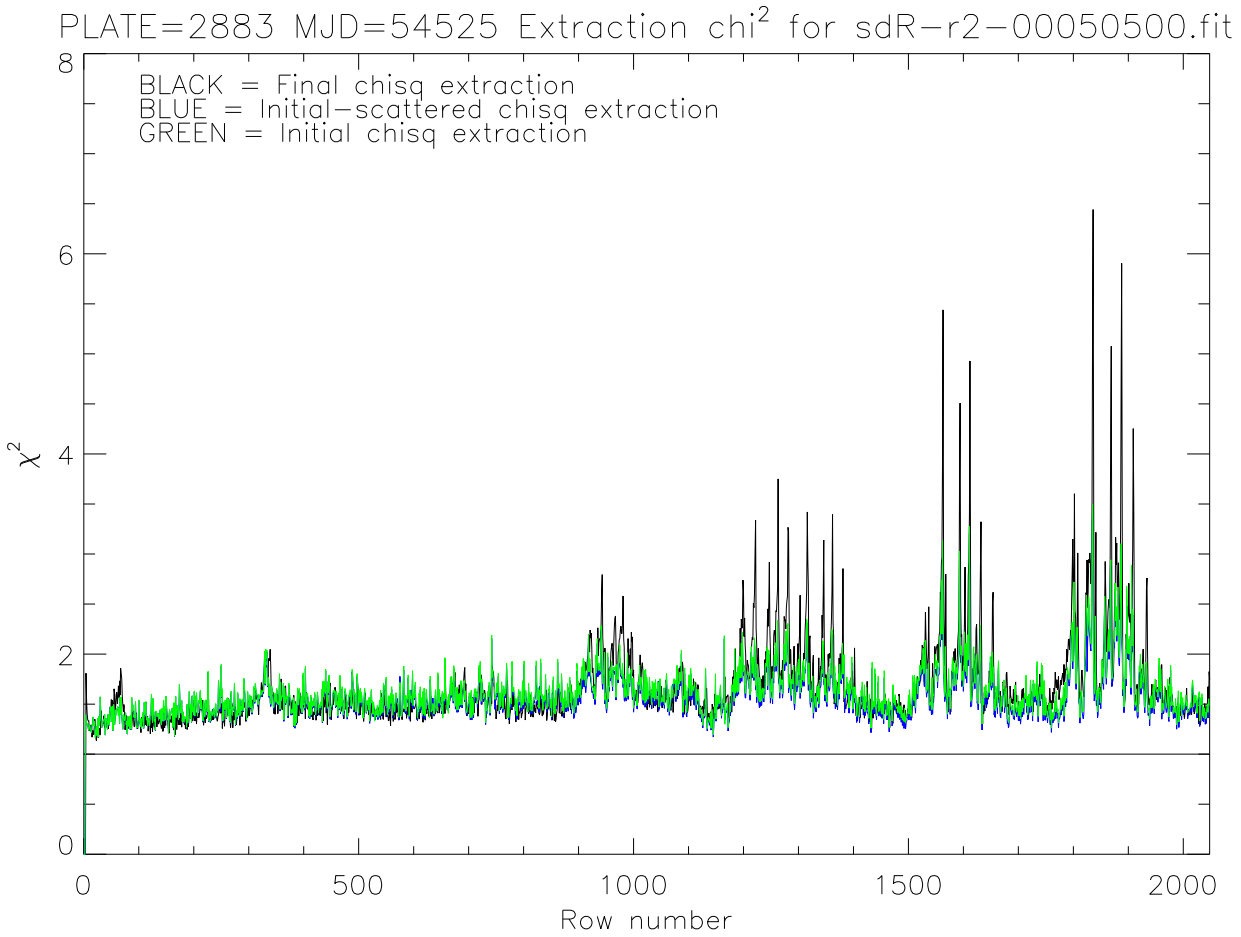

PLATE=2883 MJD=54525 Fiber−Flats for sdR−r2−00050496.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.496
Max value = 1.218
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:11:25 2008

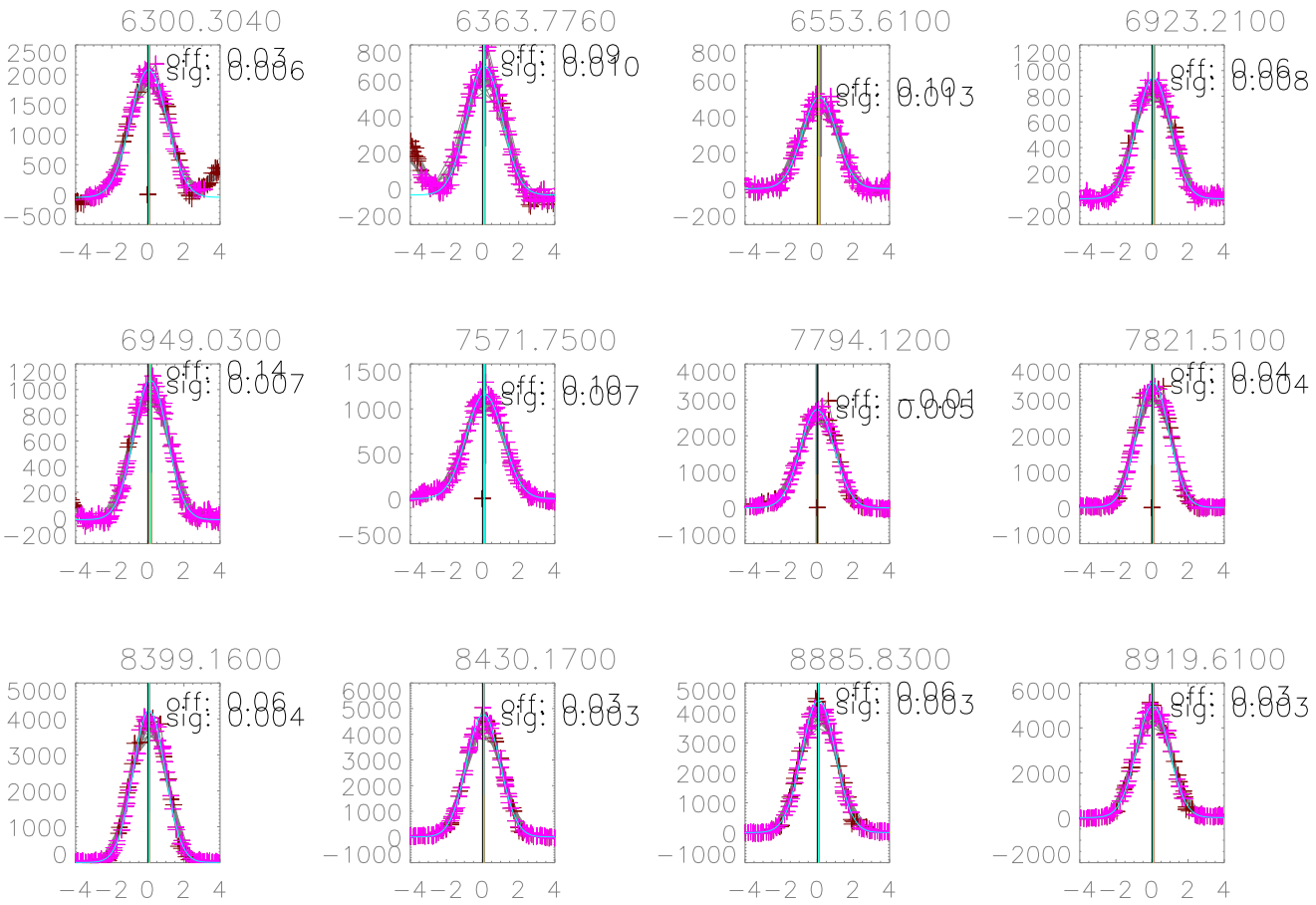

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r2-00050500.fi
36.4
36.4
36.4
36.4
21.8
21.8
7.3
7.3
Y [pix]
X [pix]
0
500
1000
1500
2000

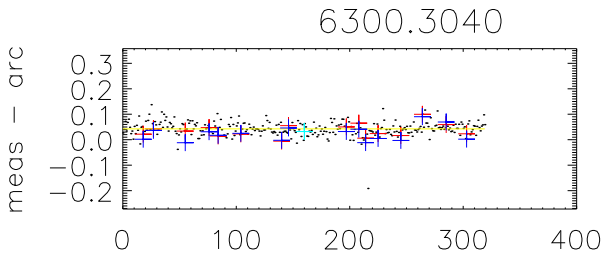

PLATE=2883 MJD=54525 Scattered Light before halo removal on sdR-r2-00050500.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.993
Max value = 51.599
Wed Mar 12 19:12:26 2008

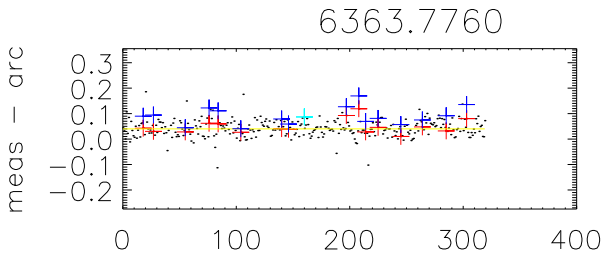

PLATE=2883 MJD=54525 Scattered Light on sdR-r2-00050500.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2

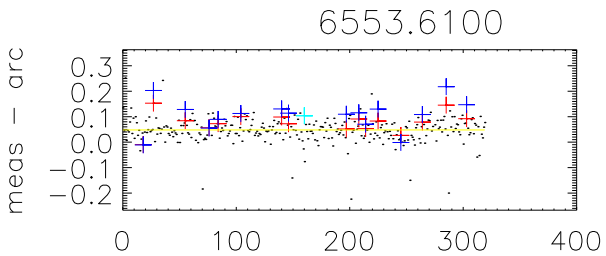

PLATE=2883 MJD=54525 Scattered Light on sdR-r2-00050500.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.811
Max value = 16.254
Wed Mar 12 19:15:54 2008

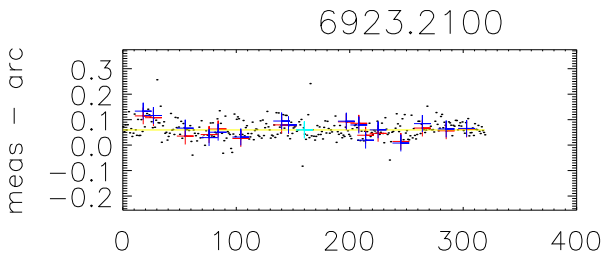

PLATE=2883 MJD=54525 Extraction chi^2 for sdR−r2−00050500.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

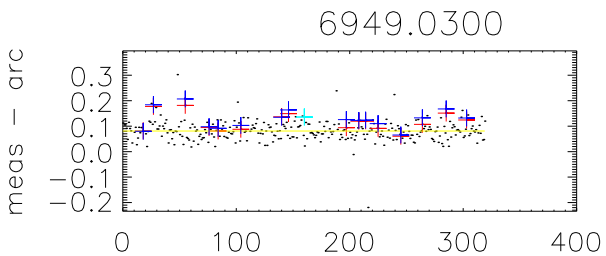

6300.3040
off: 0.03
sig: 0.006
6363.7760
off: 0.09
sig: 0.010
6553.6100
off: 0.10
sig: 0.013
6923.2100
off: 0.06
sig: 0.008
6949.0300
off: 0.14
sig: 0.007
7571.7500
off: 0.10
sig: 0.007
7794.1200
off: 0.01
sig: 0.005
7821.5100
off: 0.04
sig: 0.004
8399.1600
off: 0.06
sig: 0.004
8430.1700
off: 0.03
sig: 0.003
8885.8300
off: 0.06
sig: 0.003
8919.6100
off: 0.03
sig: 0.003

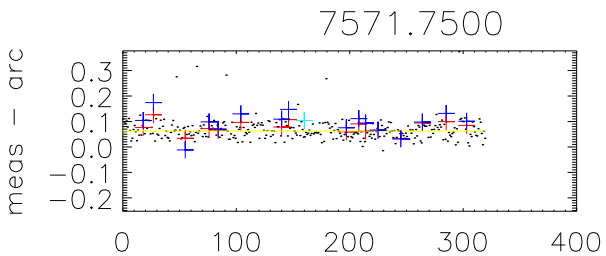

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

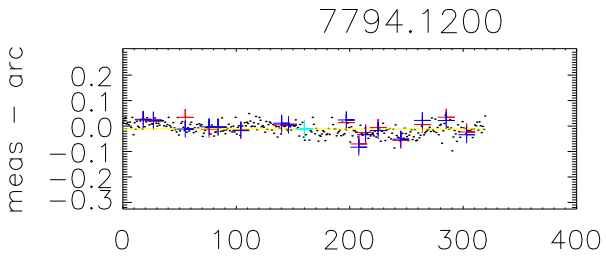

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

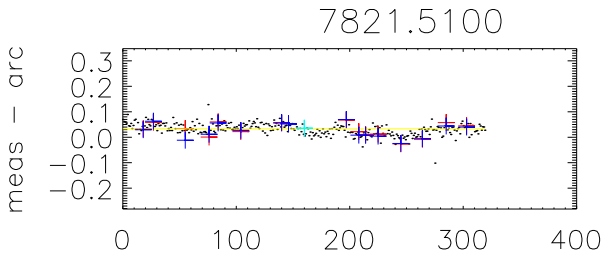

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

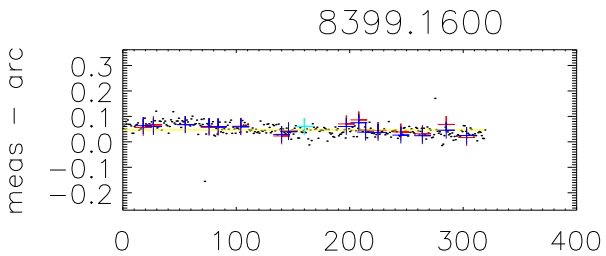

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

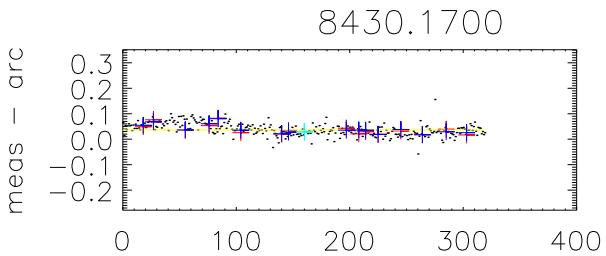

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

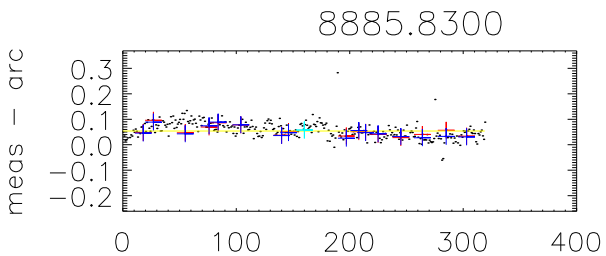

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

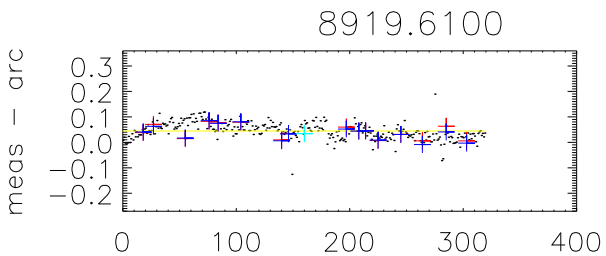

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

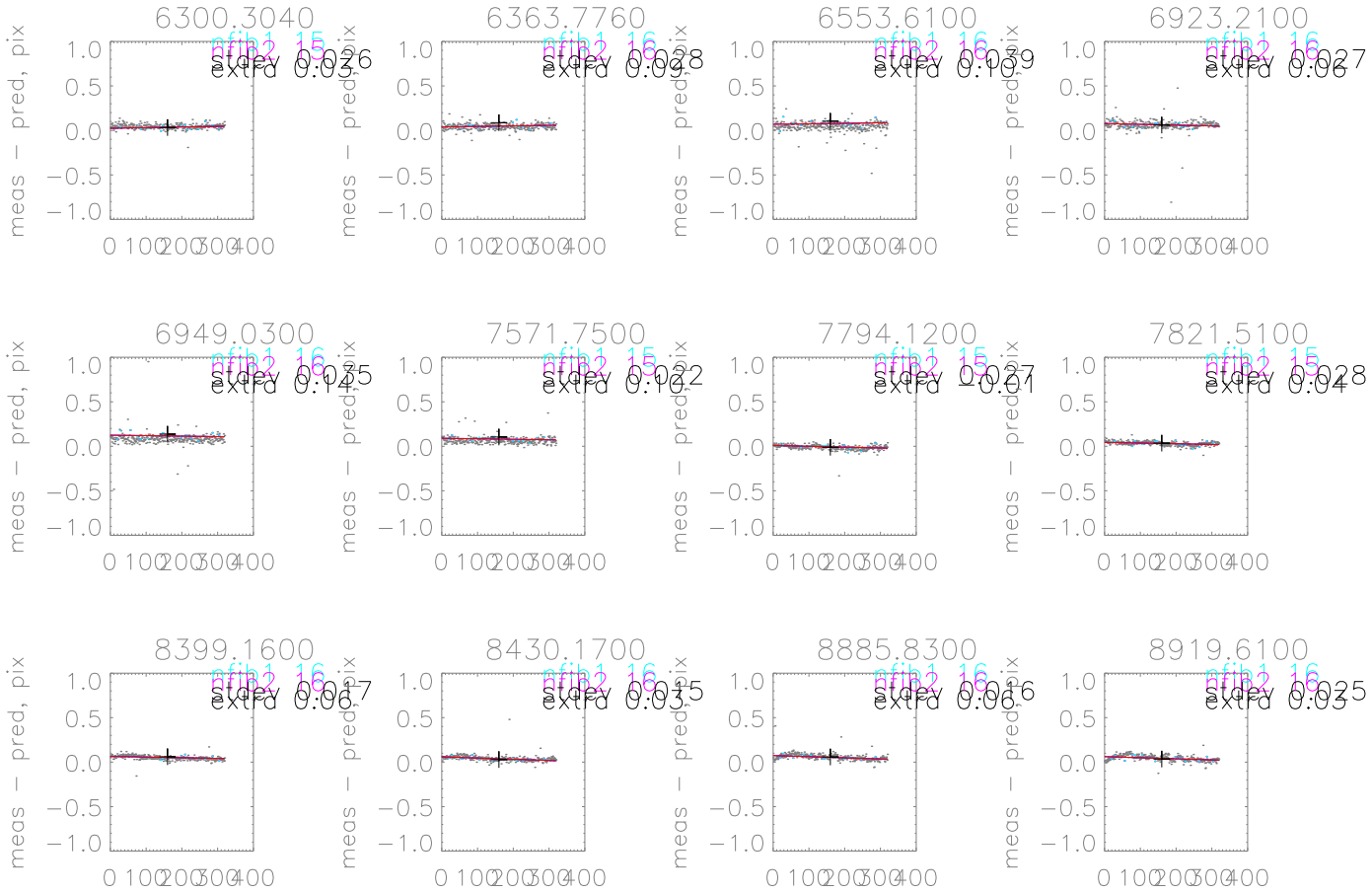

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

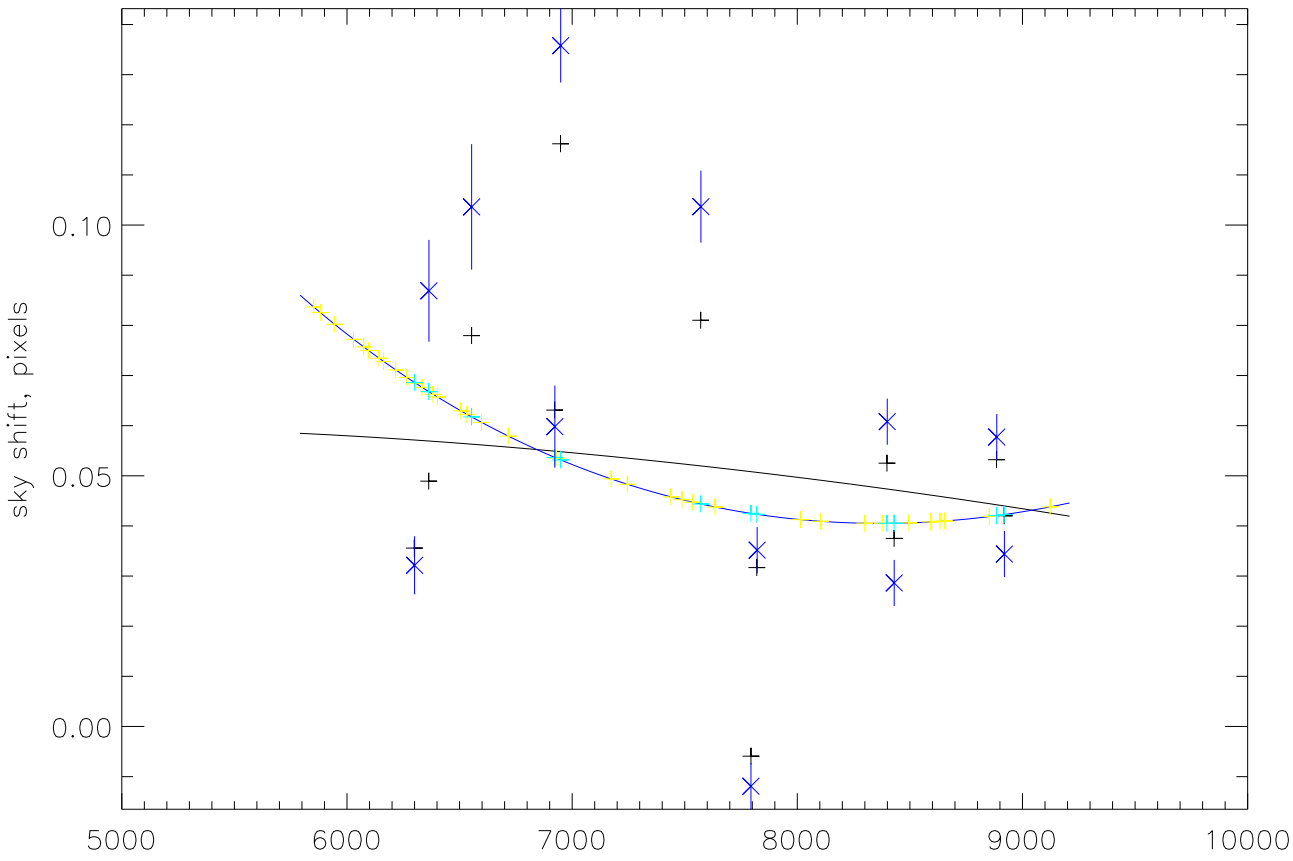

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

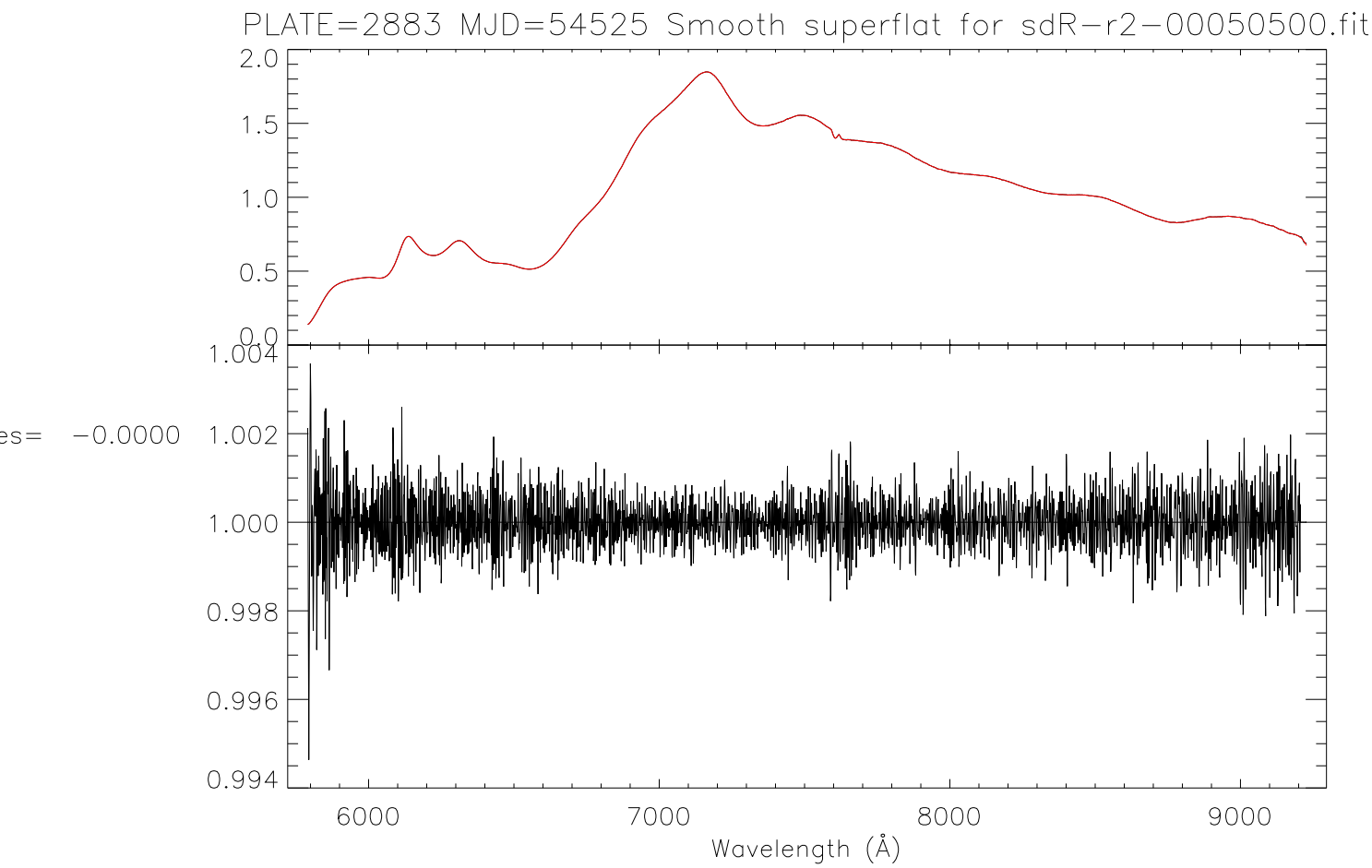

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

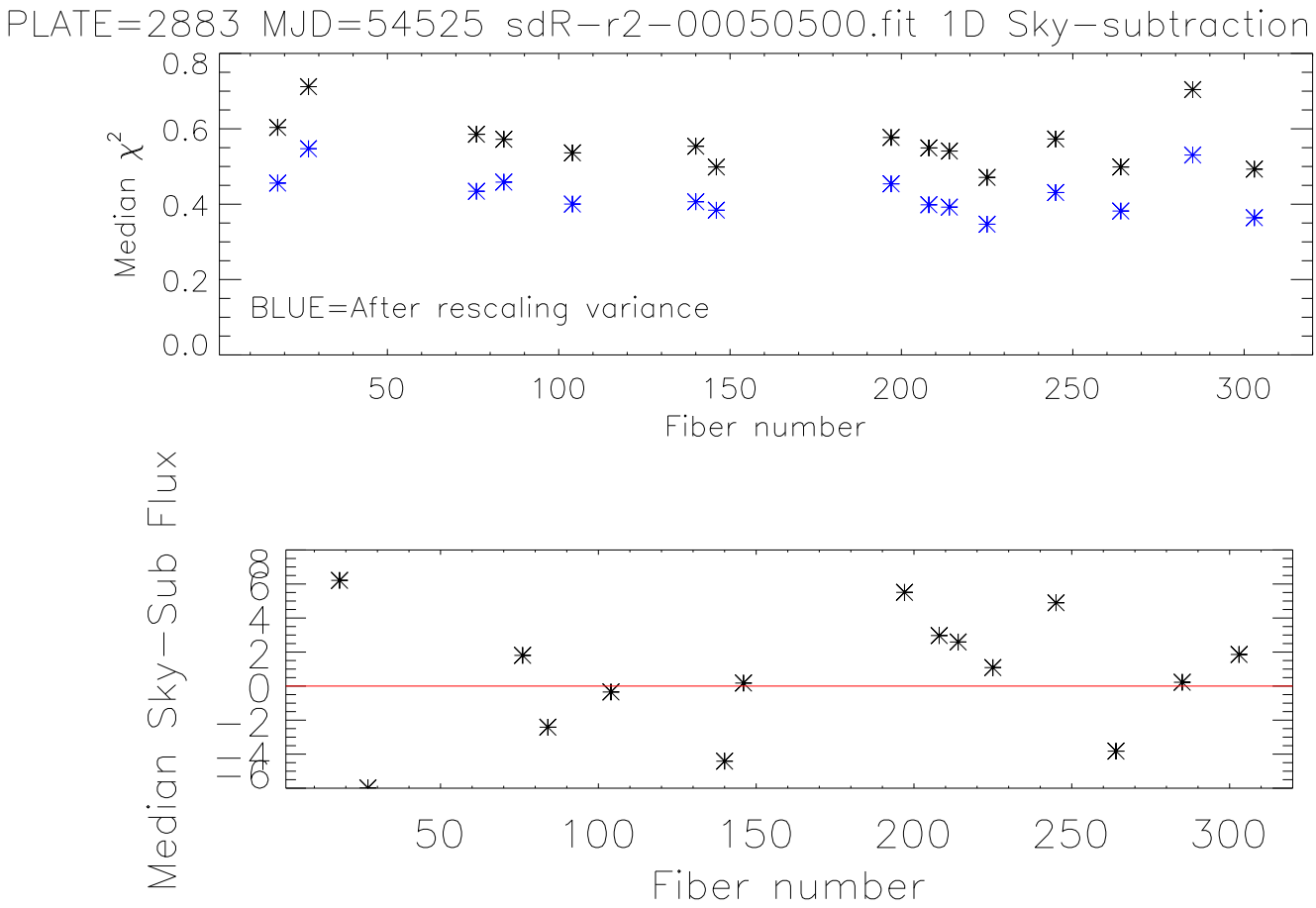

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

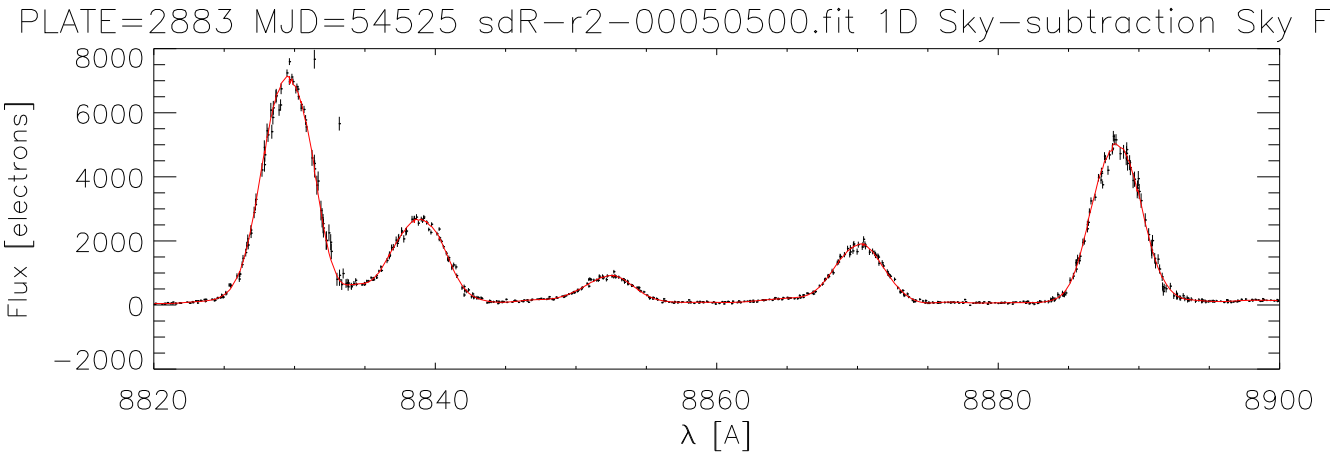

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

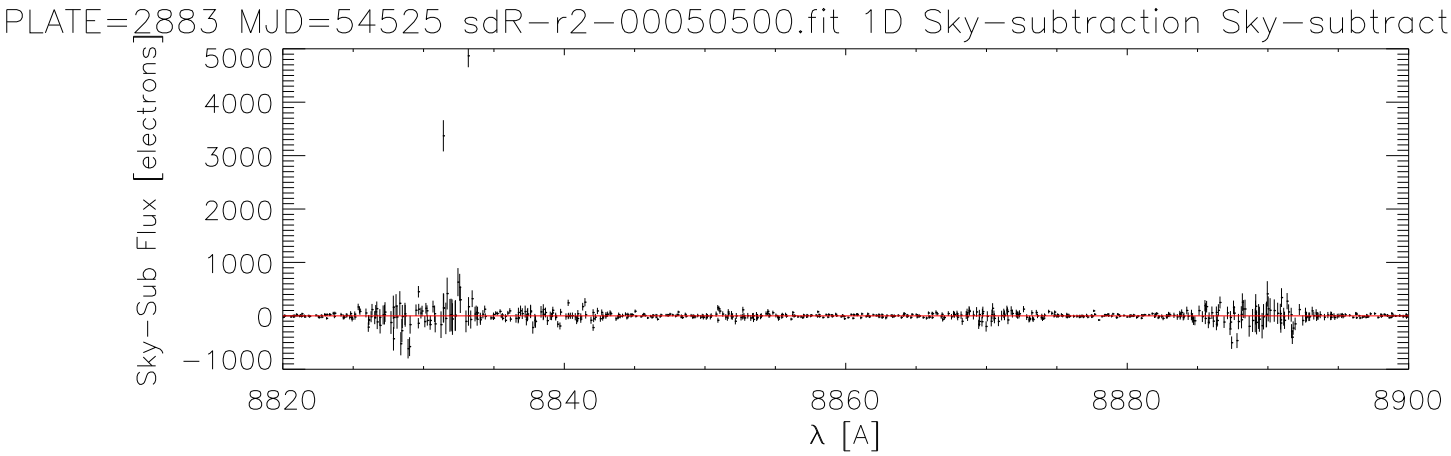

6300.3040
stdev 0.026
extra 0.03
6363.7760
stdev 0.028
extra 0.04
6553.6100
stdev 0.039
extra 0.10
6923.2100
stdev 0.027
extra 0.06
6949.0300
stdev 0.035
extra 0.14
7571.7500
stdev 0.022
extra 0.16
7794.1200
stdev 0.027
extra −0.01
7821.5100
stdev 0.028
extra 0.04
8399.1600
stdev 0.047
extra 0.06
8430.1700
stdev 0.035
extra 0.03
8885.8300
stdev 0.046
extra 0.06
8919.6100
stdev 0.025
extra 0.03
meas − pred, pix
mfib2 15
mfib1 16

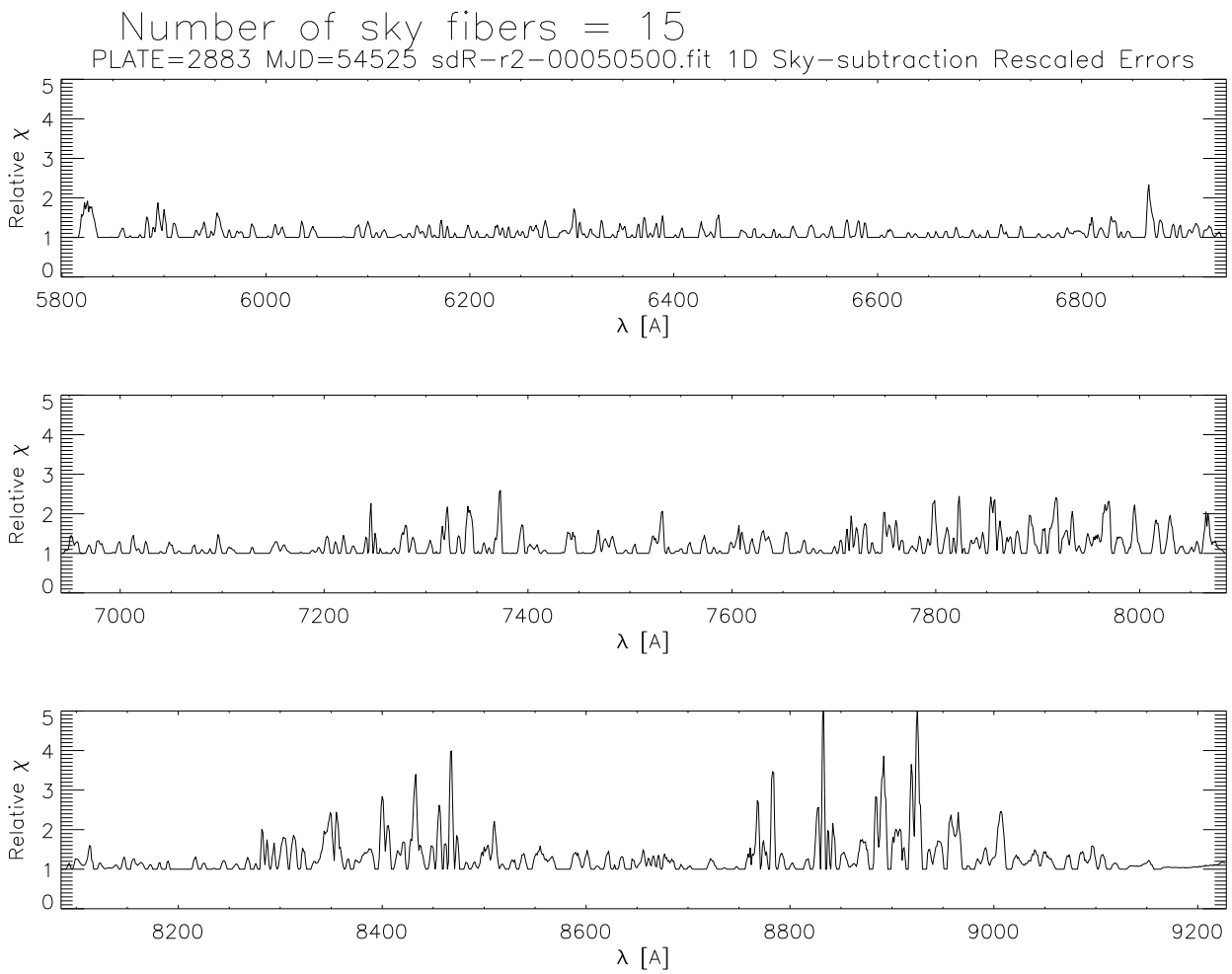

sky shift, pixels
0.10
0.05
0.00
5000
6000
7000
8000
9000
10000

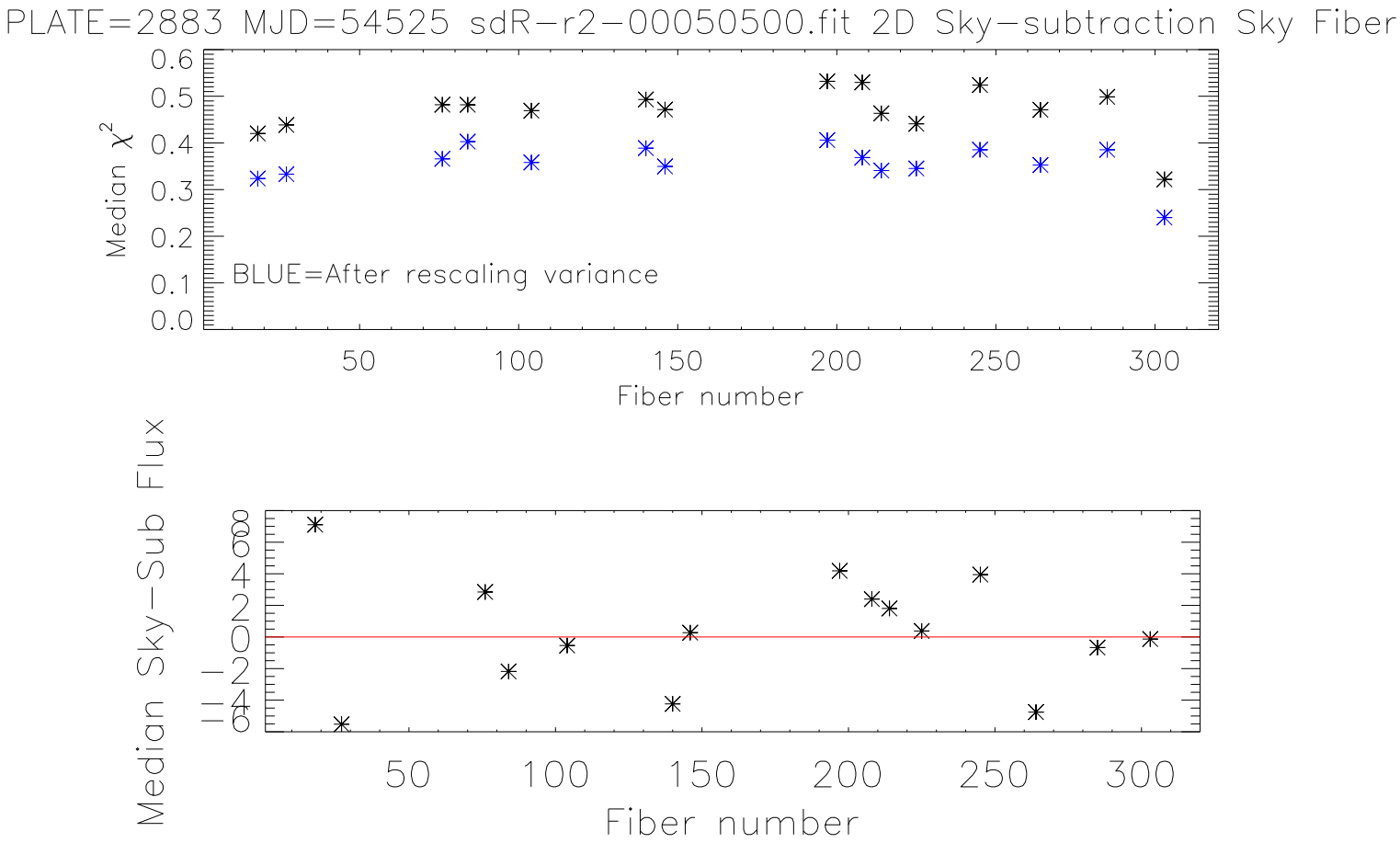

PLATE=2883 MJD=54525 Smooth superflat for sdR-r2-00050500.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

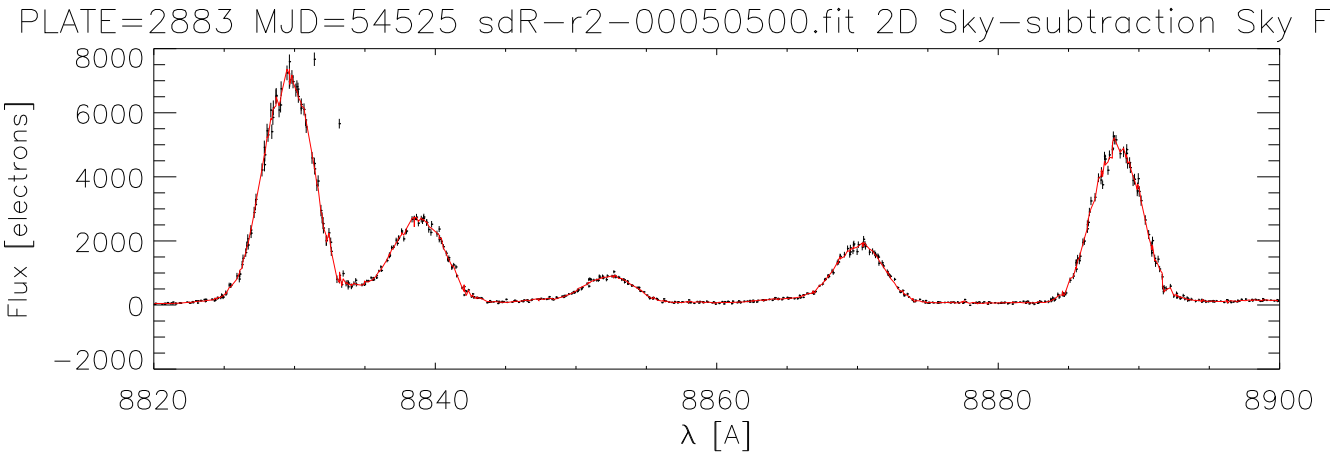

PLATE=2883 MJD=54525 sdR-r2-00050500.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

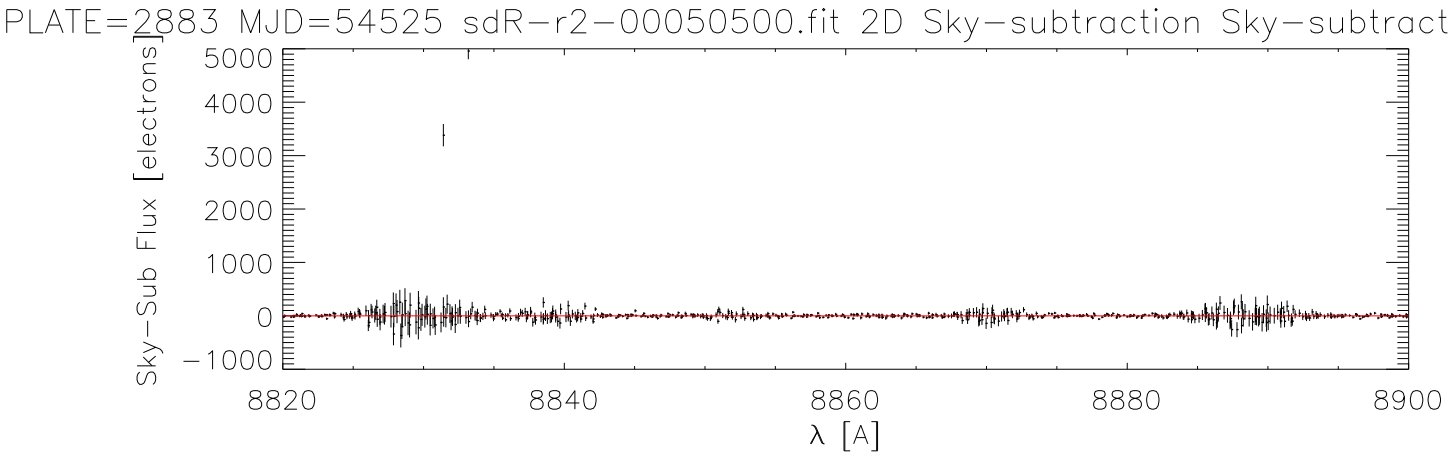

PLATE=2883 MJD=54525 sdR-r2-00050500.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

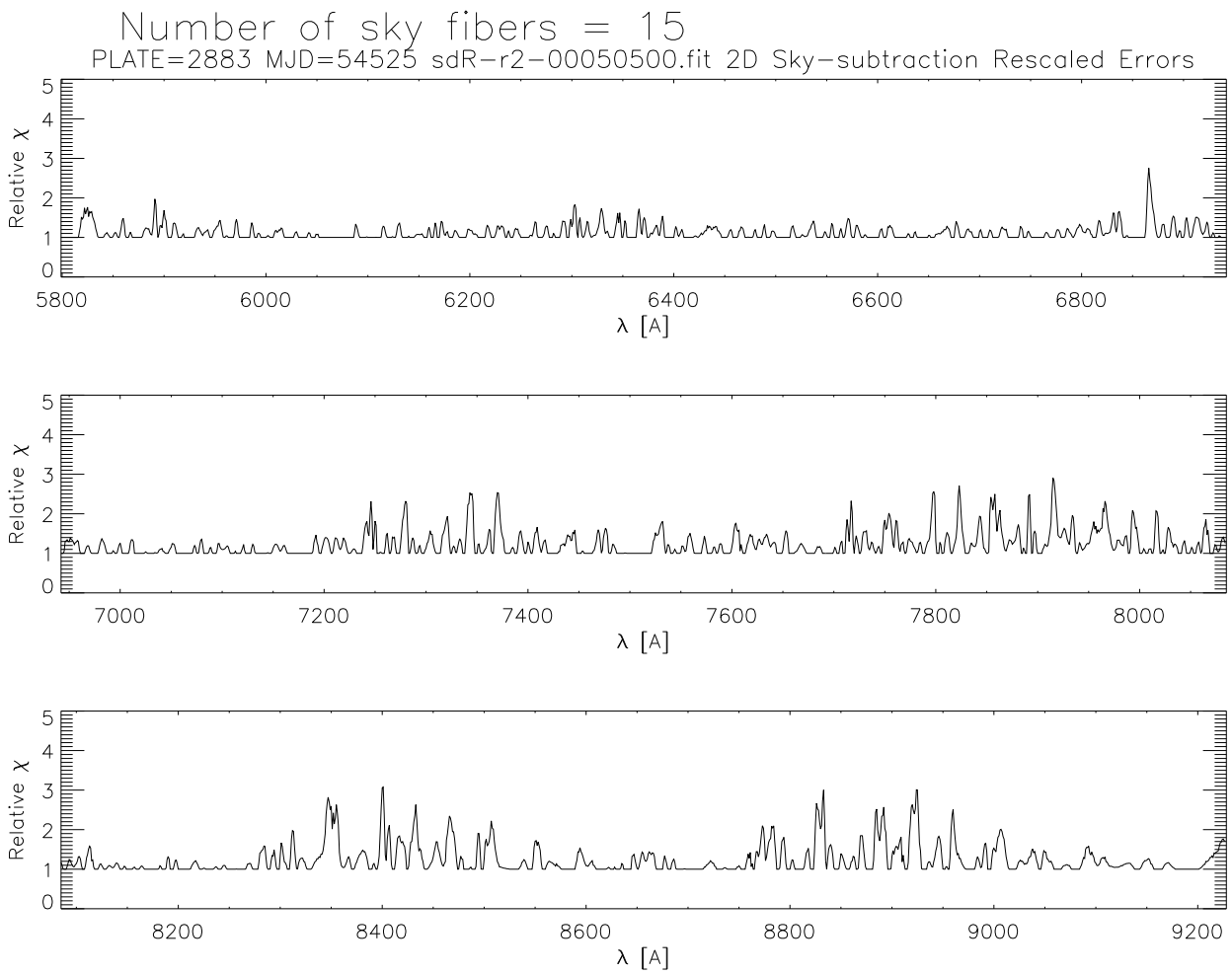

PLATE=2883 MJD=54525 sdR-r2-00050500.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

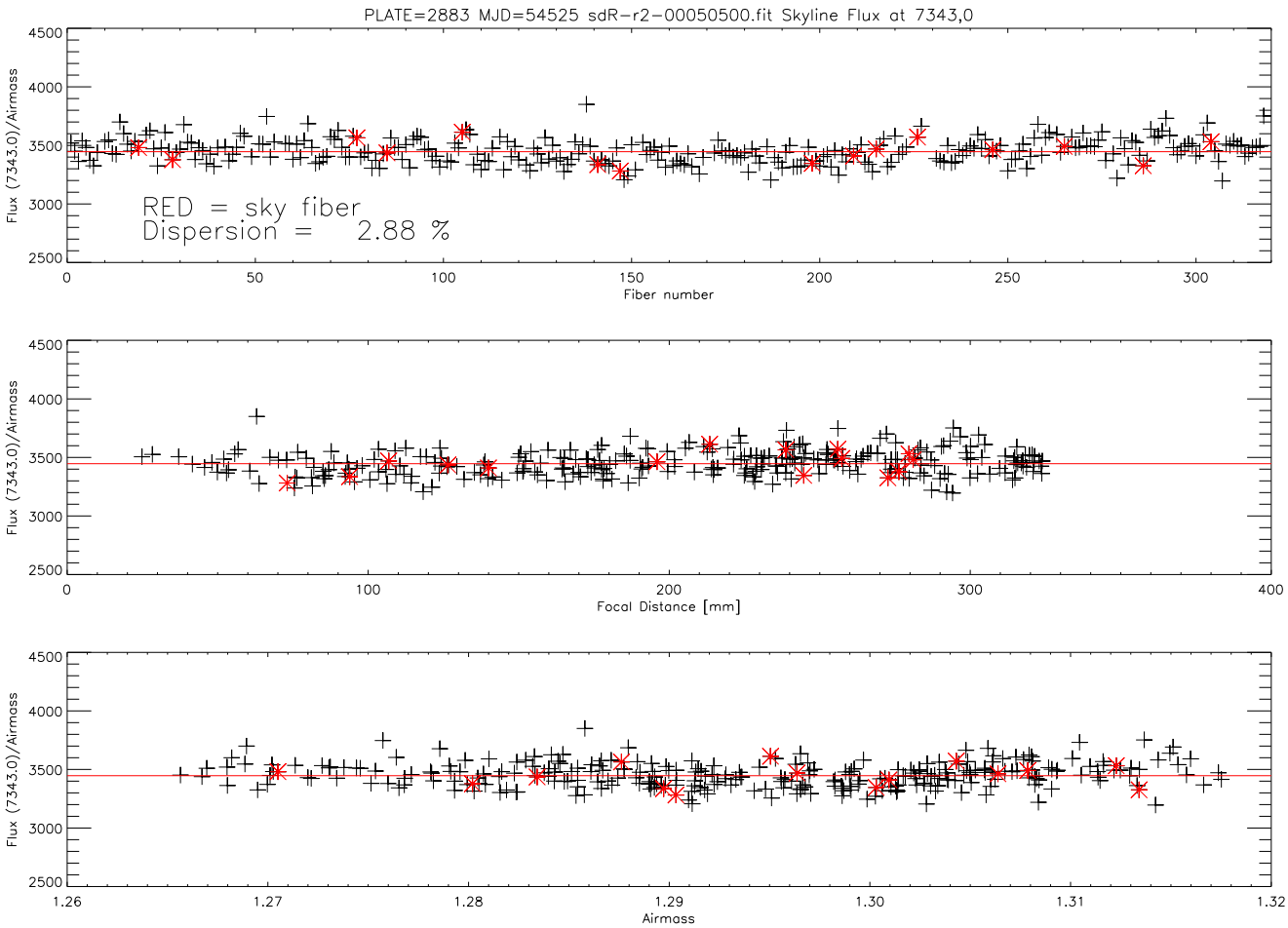

Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-r2-00050500.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

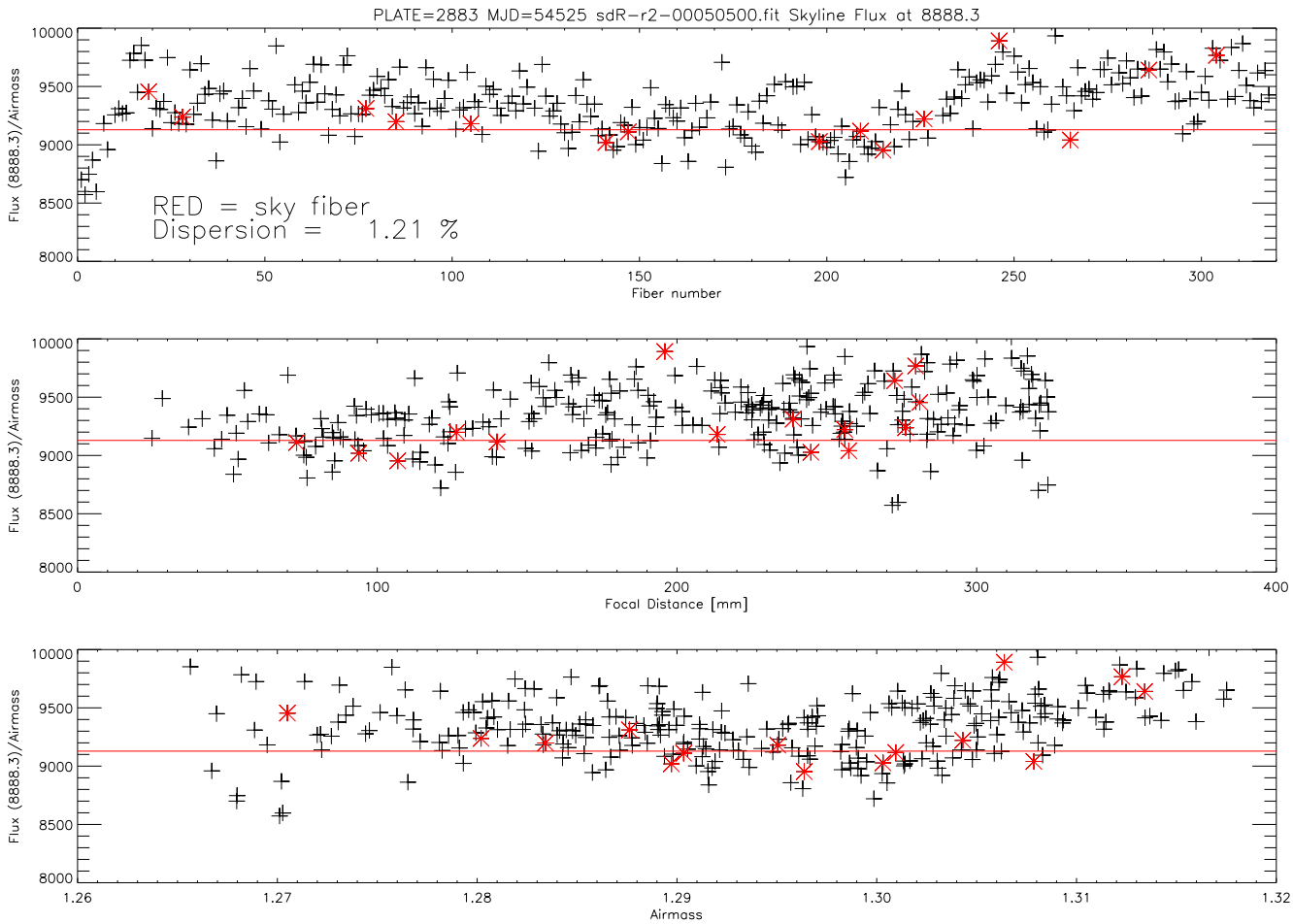

PLATE=2883 MJD=54525 sdR-r2-00050500.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number


PLATE=2883 MJD=54525 sdR-r2-00050500.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]


PLATE=2883 MJD=54525 sdR-r2-00050500.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 15
PLATE=2883 MJD=54525 sdR-r2-00050500.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5


PLATE=2883 MJD=54525 sdR-r2-00050500.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.88 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2883 MJD=54525 sdR-r2-00050500.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.21 %
Fiber number
Focal Distance [mm]
Airmass