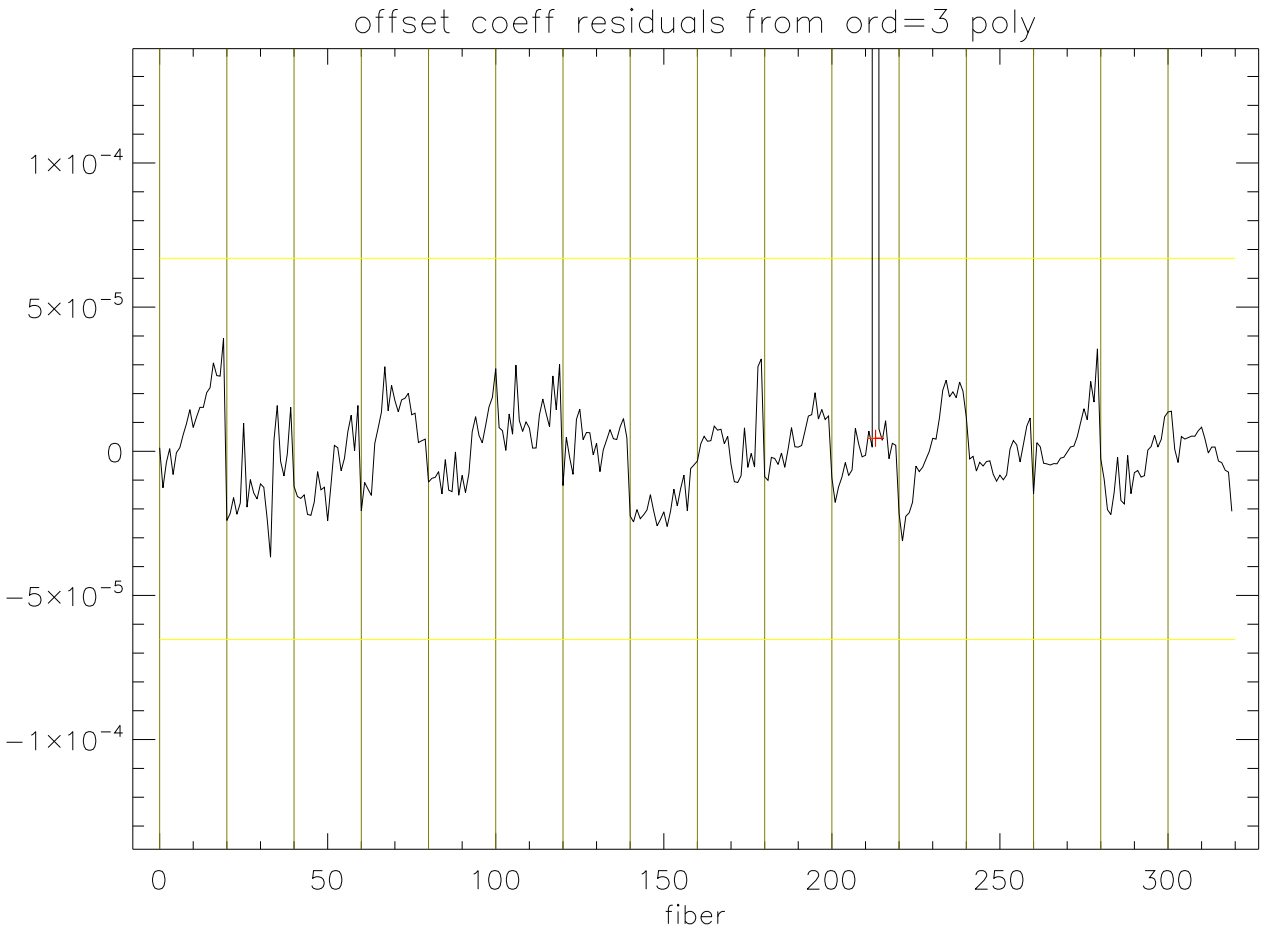
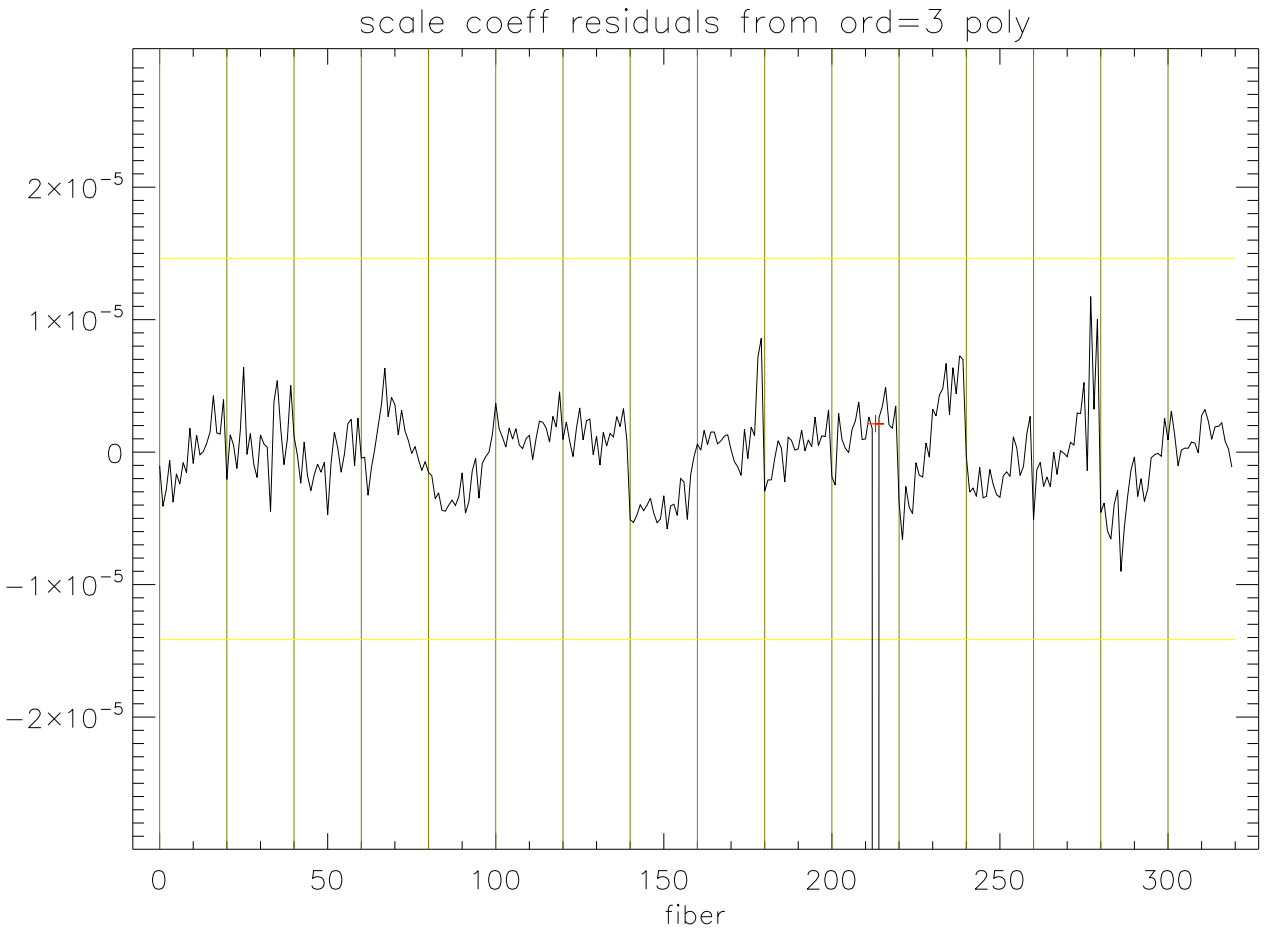
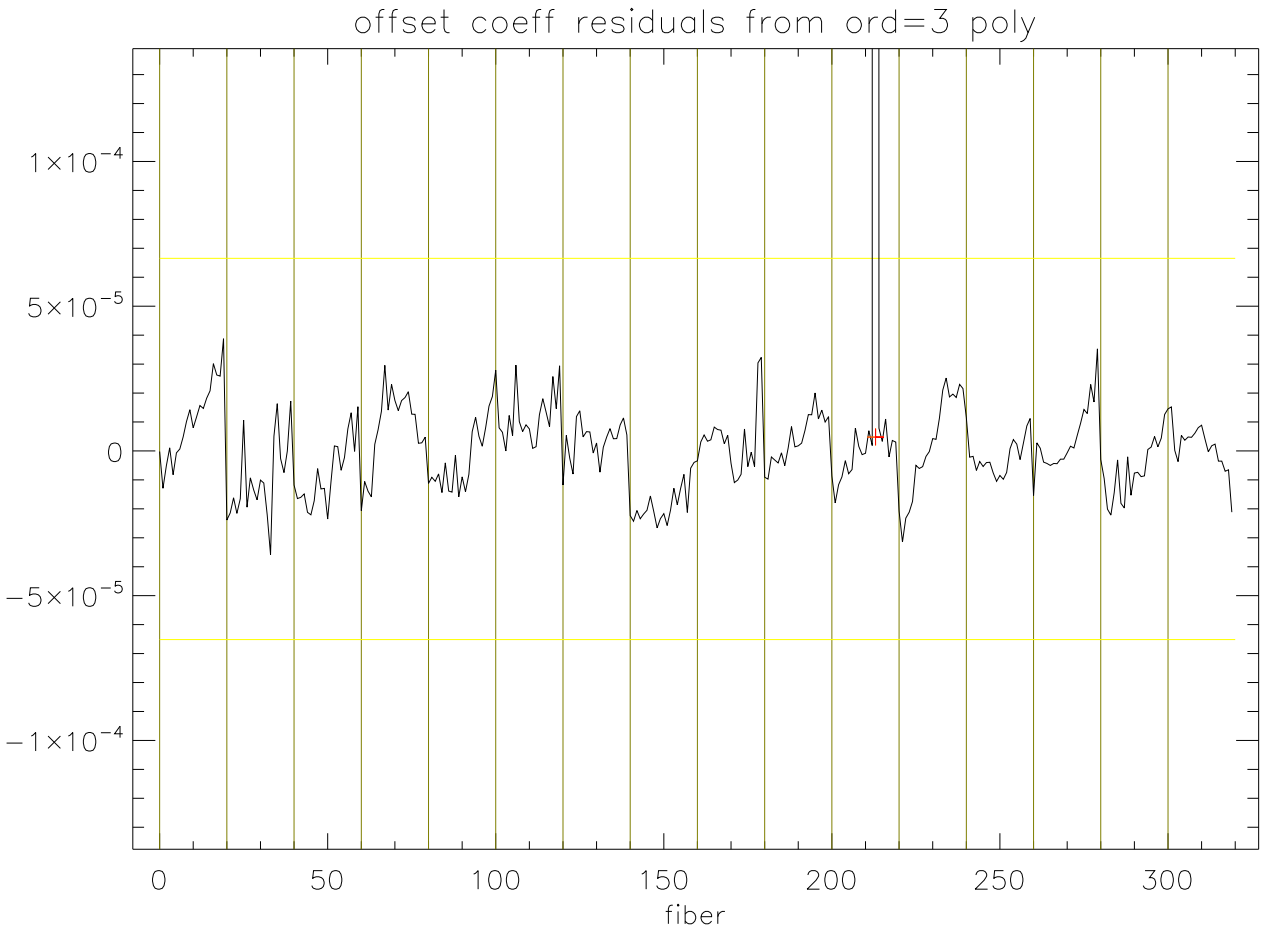
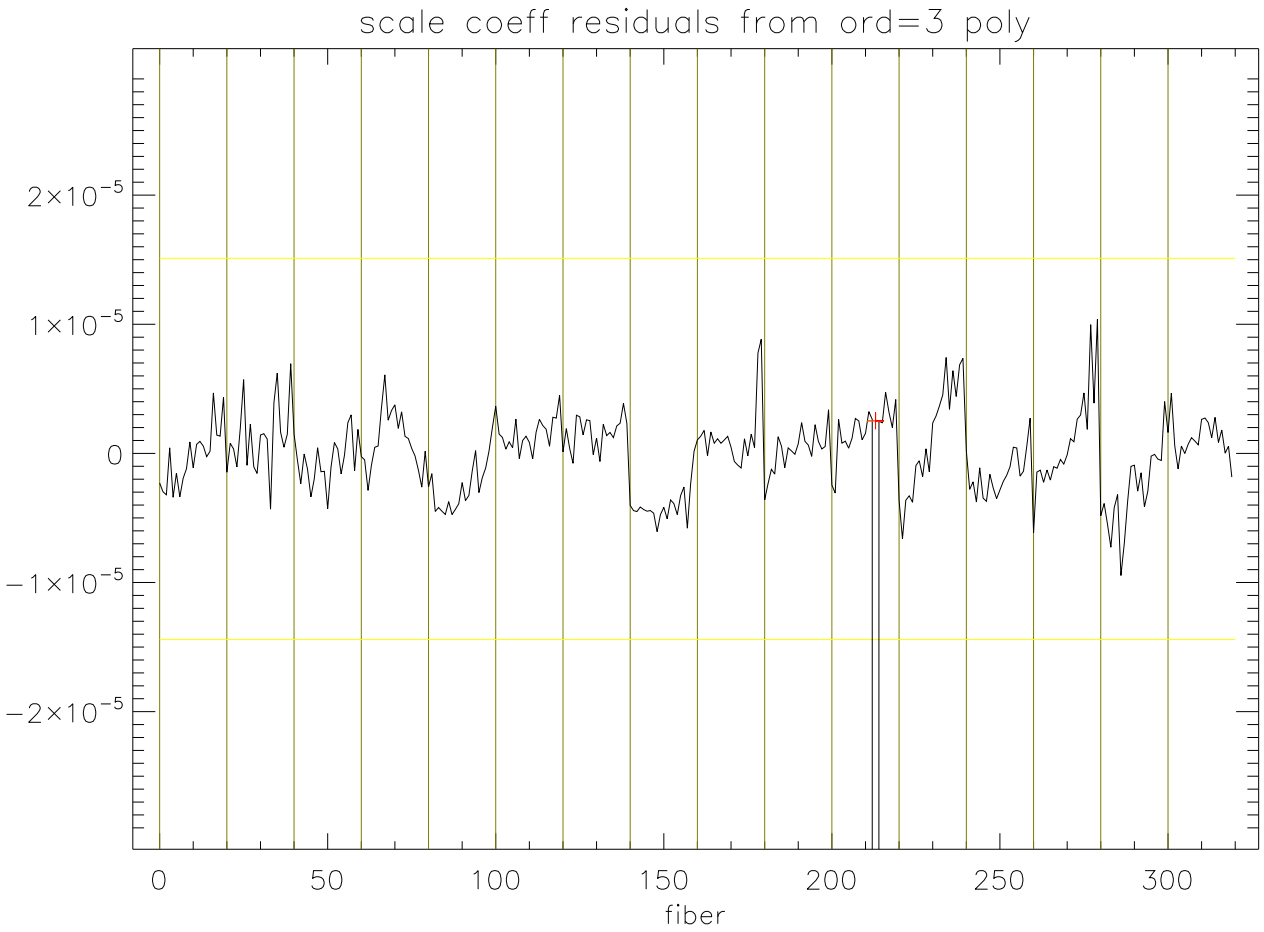
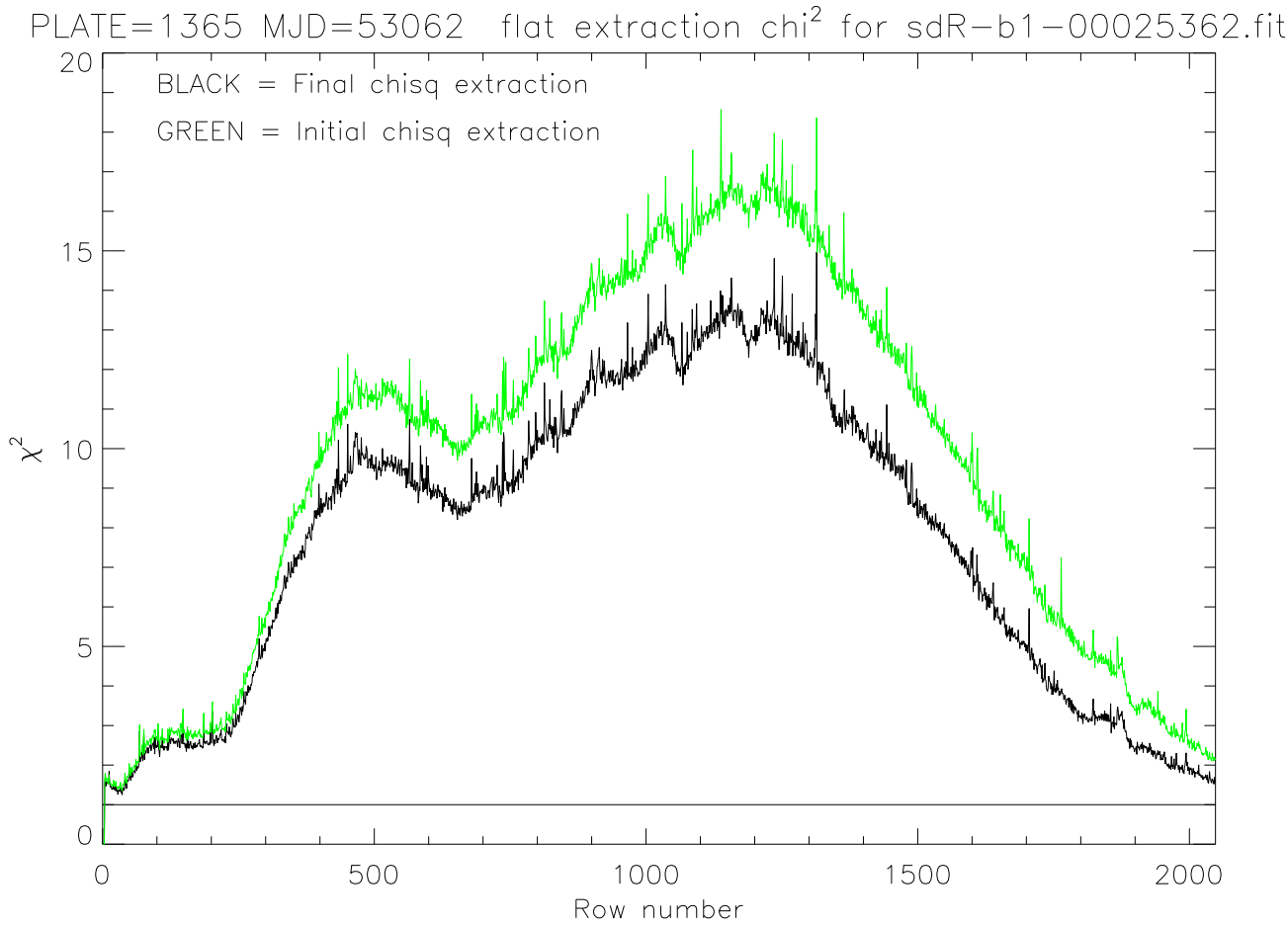
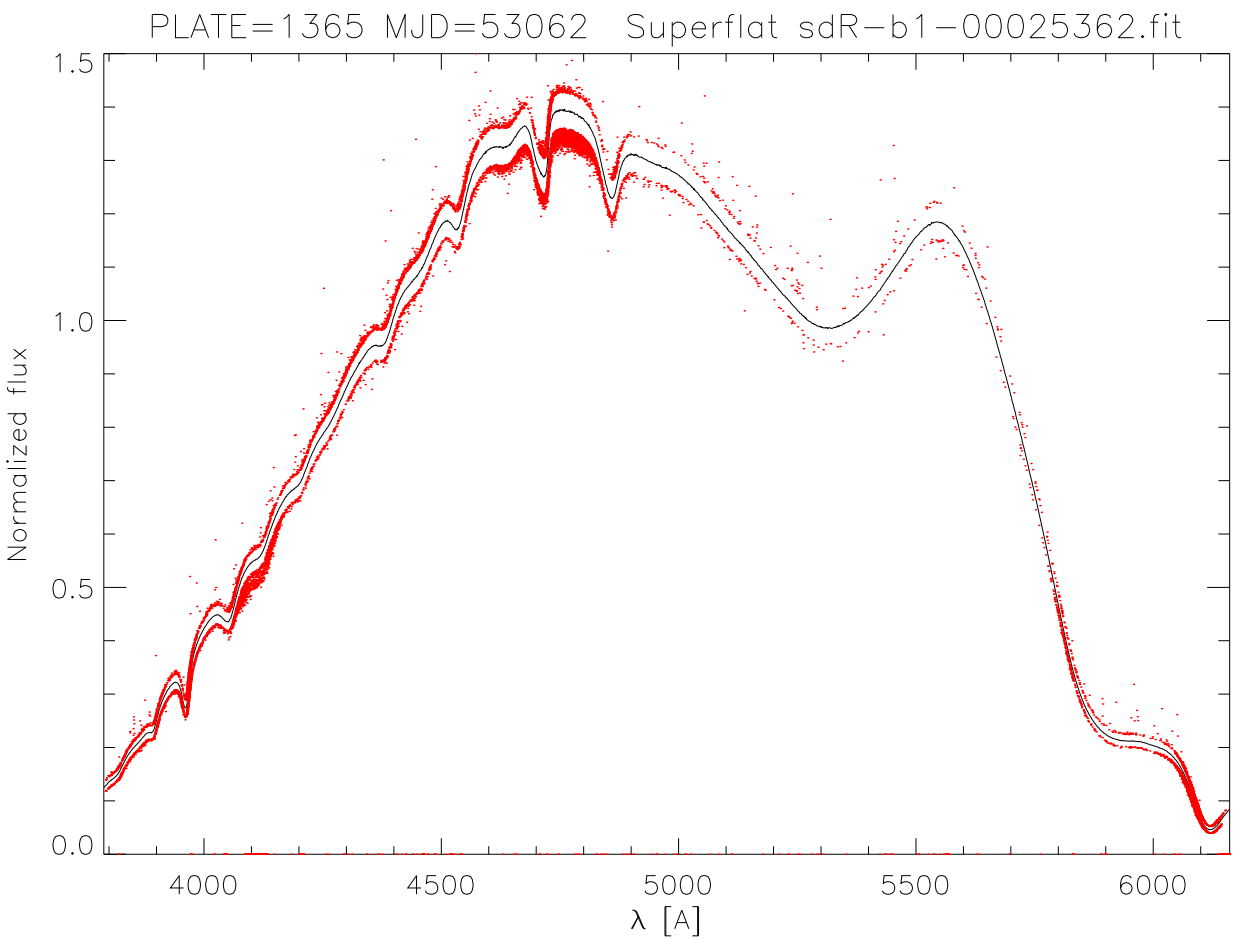

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

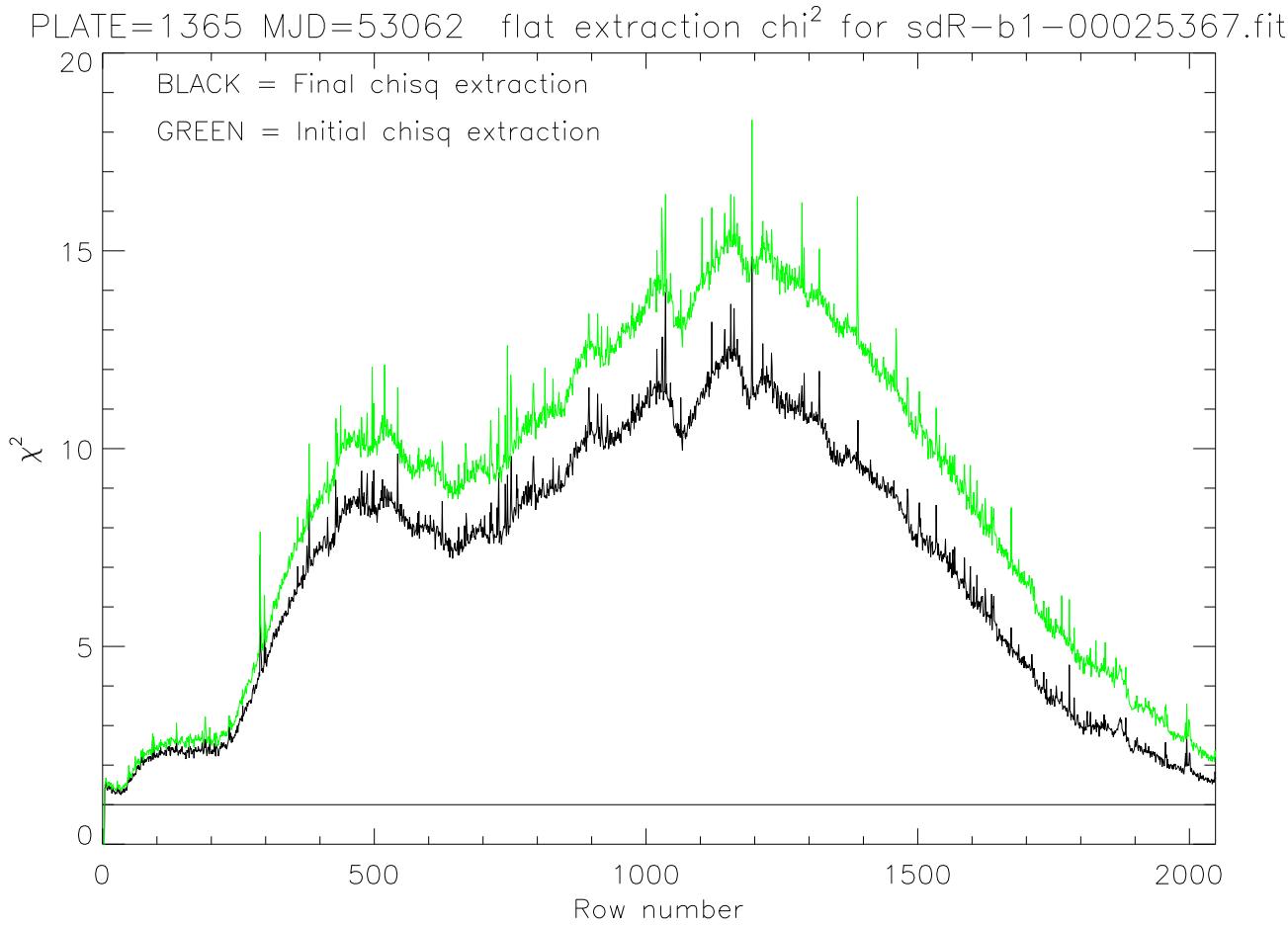

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

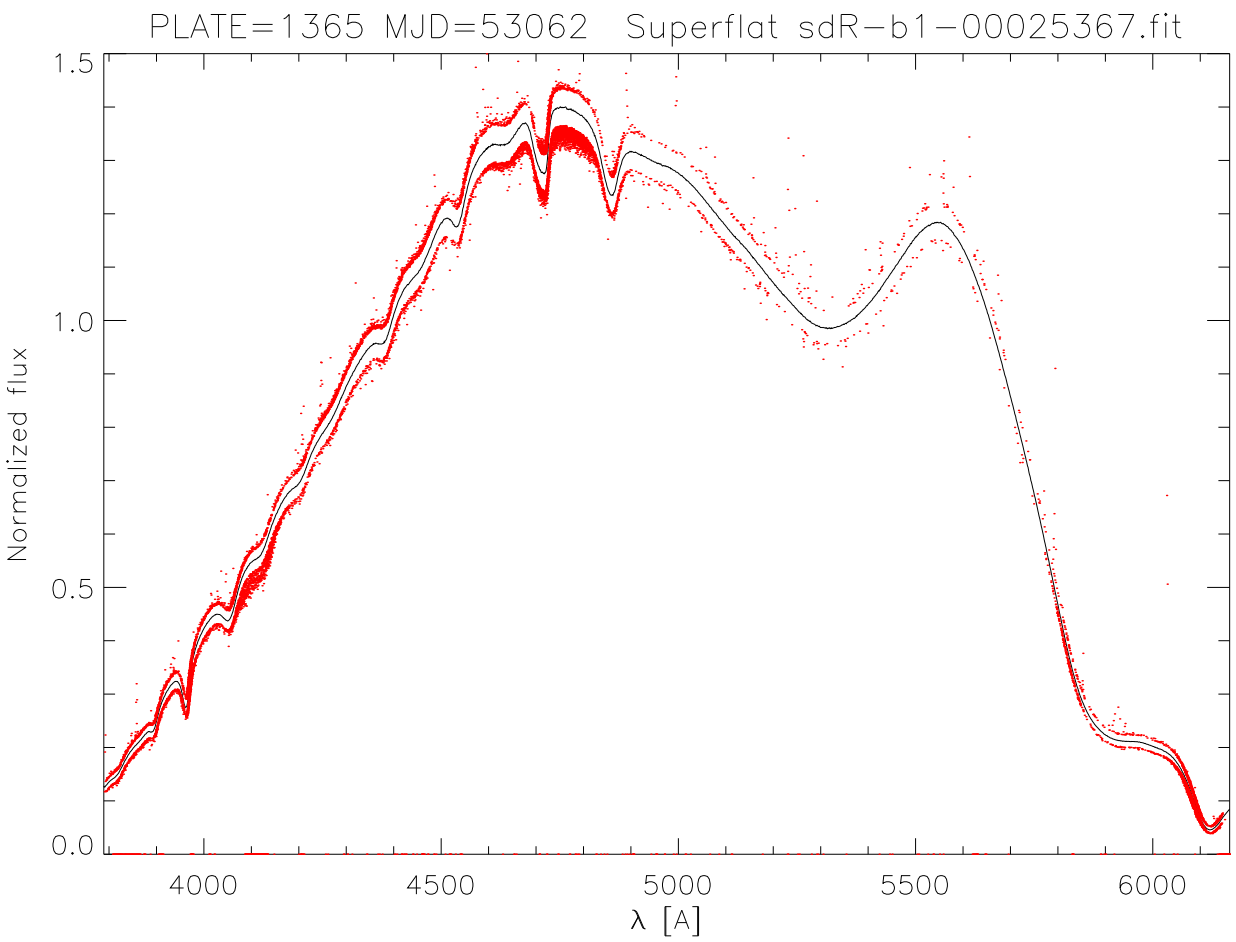

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

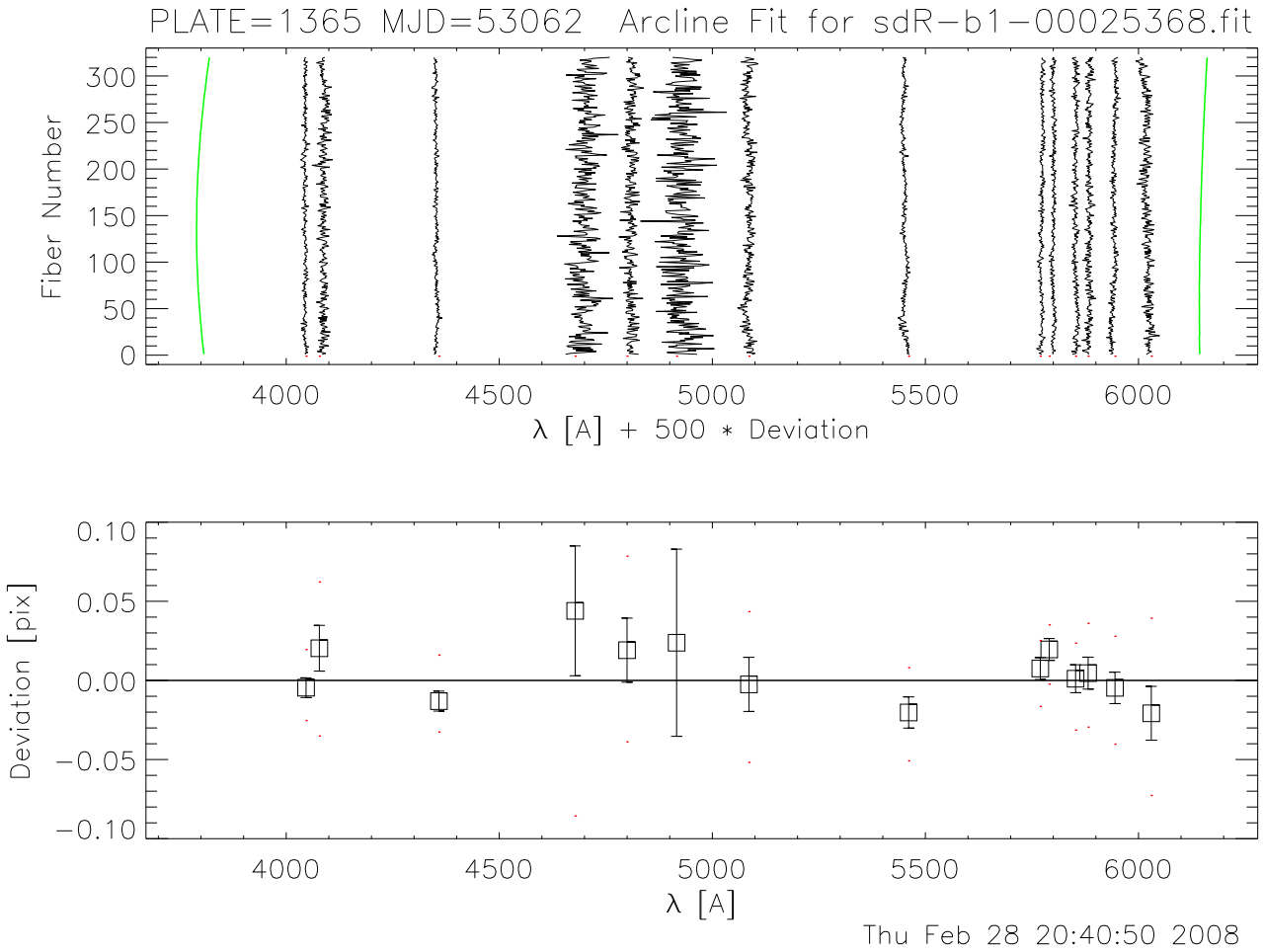

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

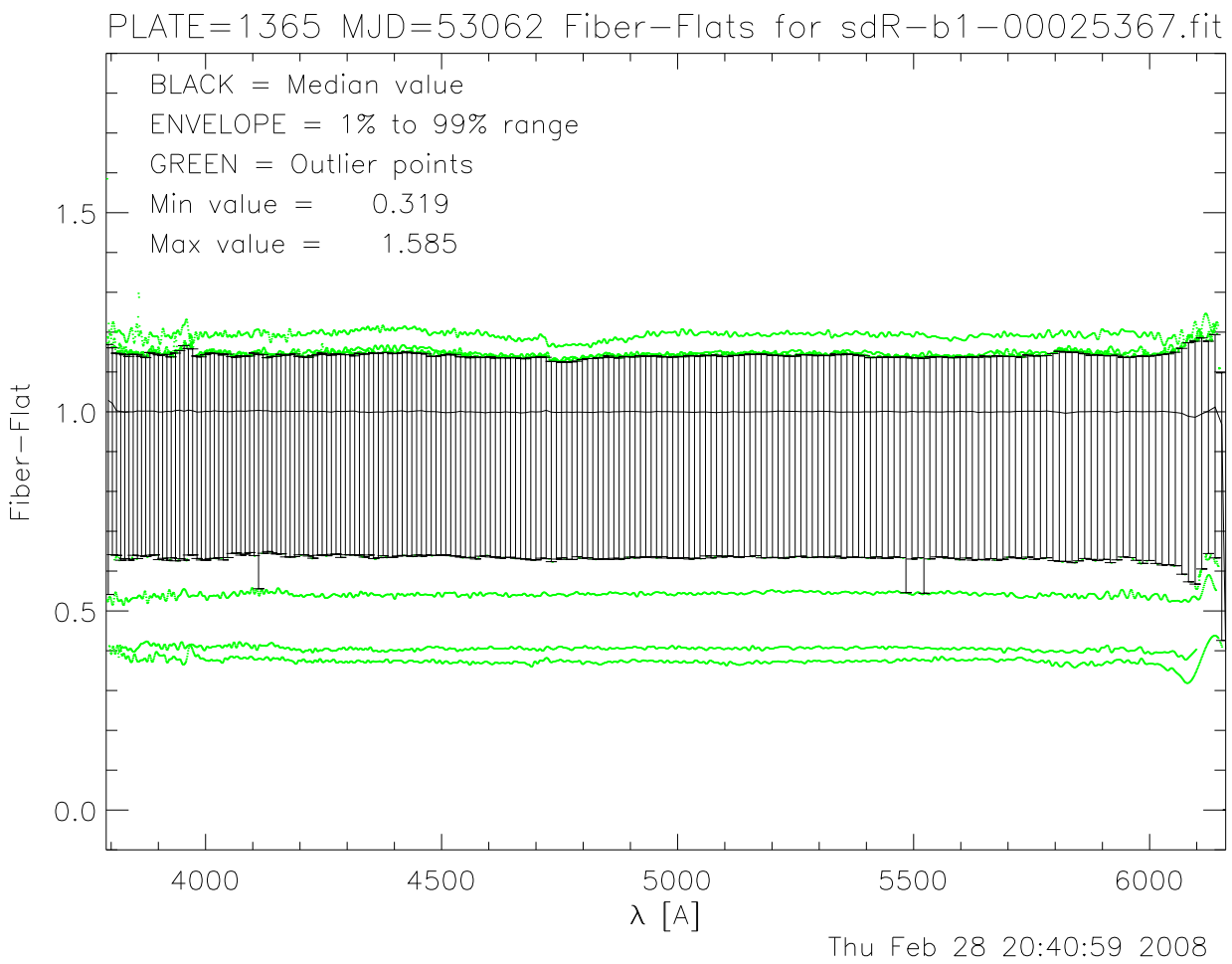

PLATE=1365 MJD=53062 flat extraction chi^2 for sdR−b1−00025362.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

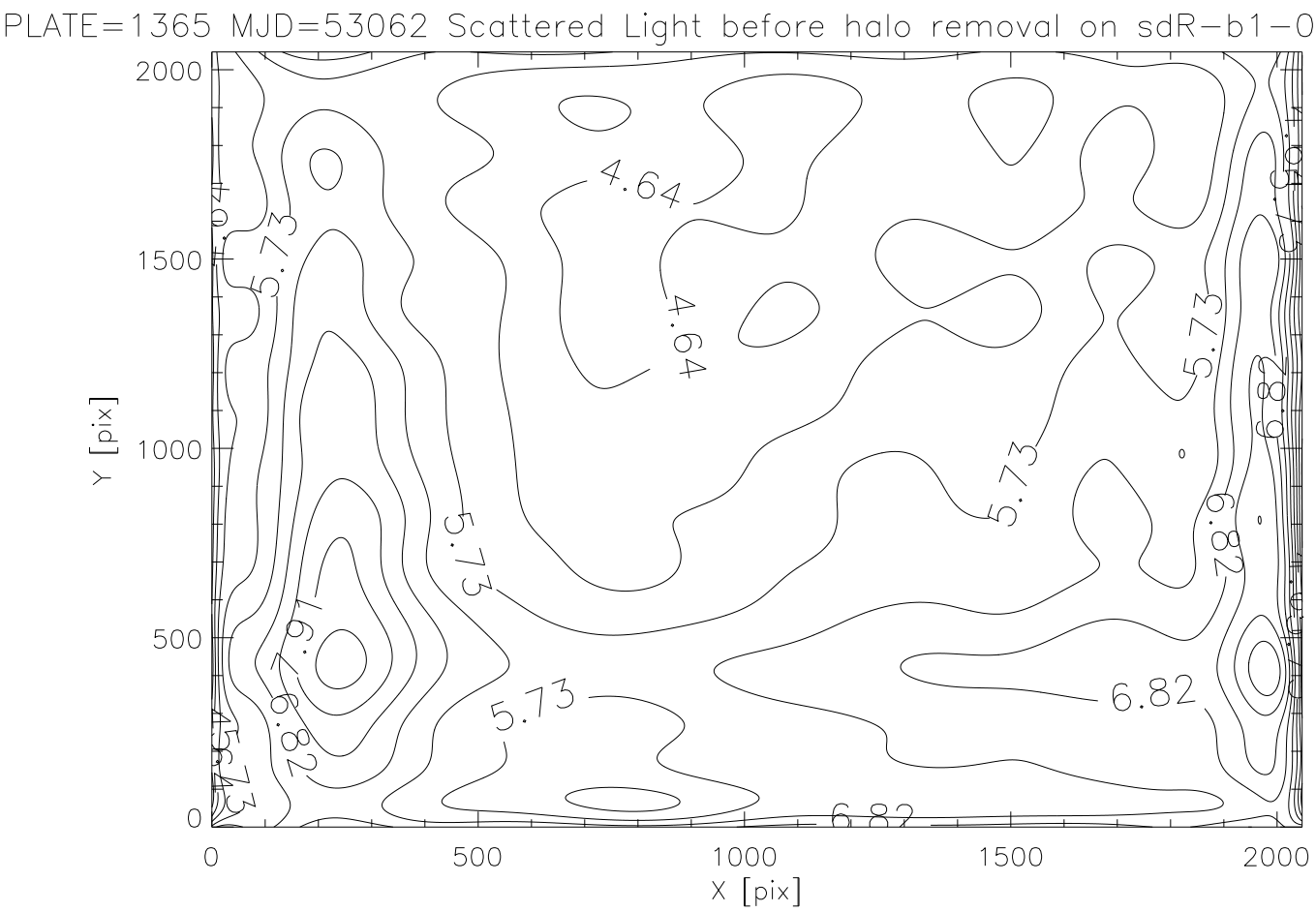

PLATE=1365 MJD=53062 Superflat sdR-b1-00025362.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

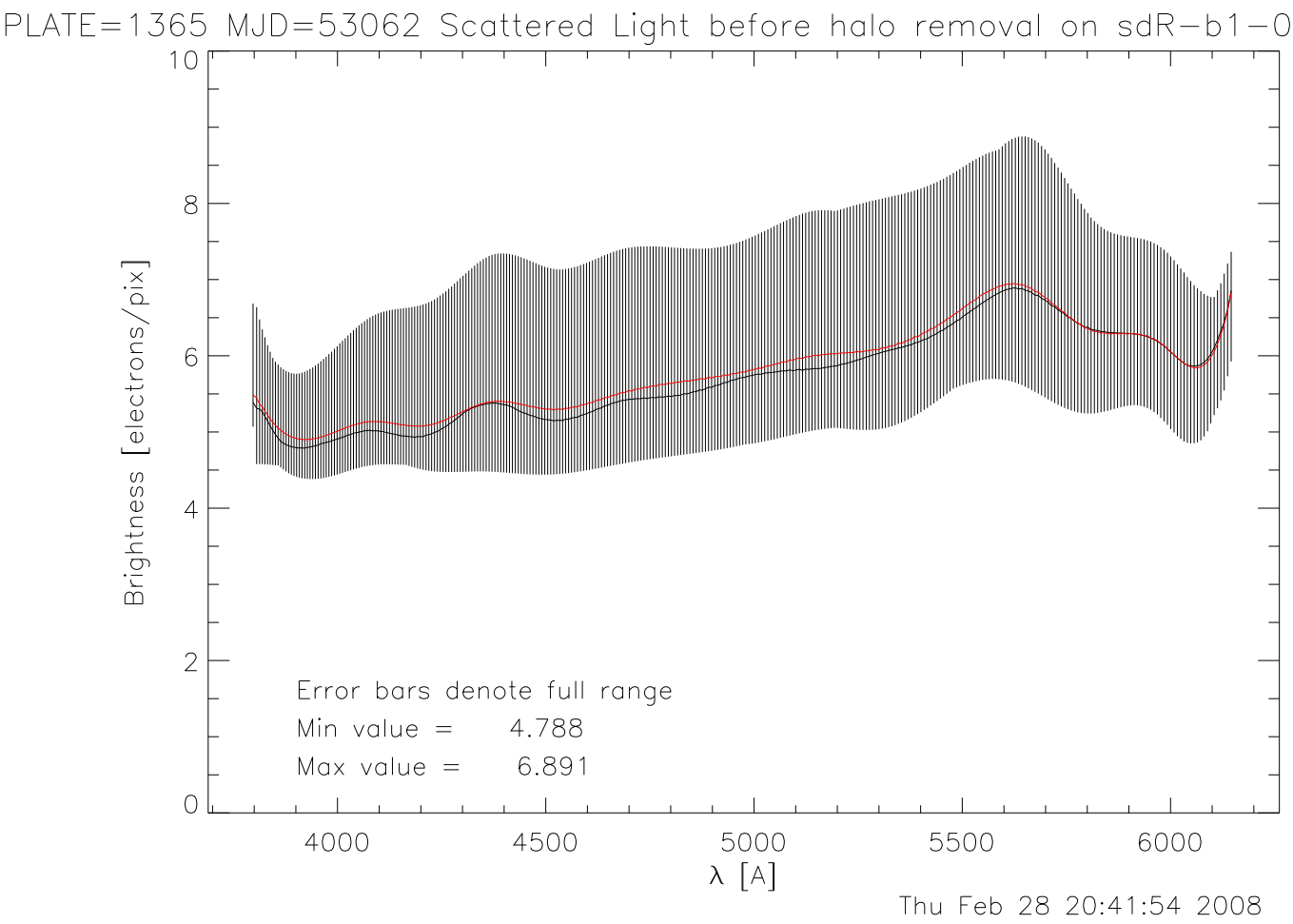

PLATE=1365 MJD=53062 flat extraction chi^2 for sdR−b1−00025367.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

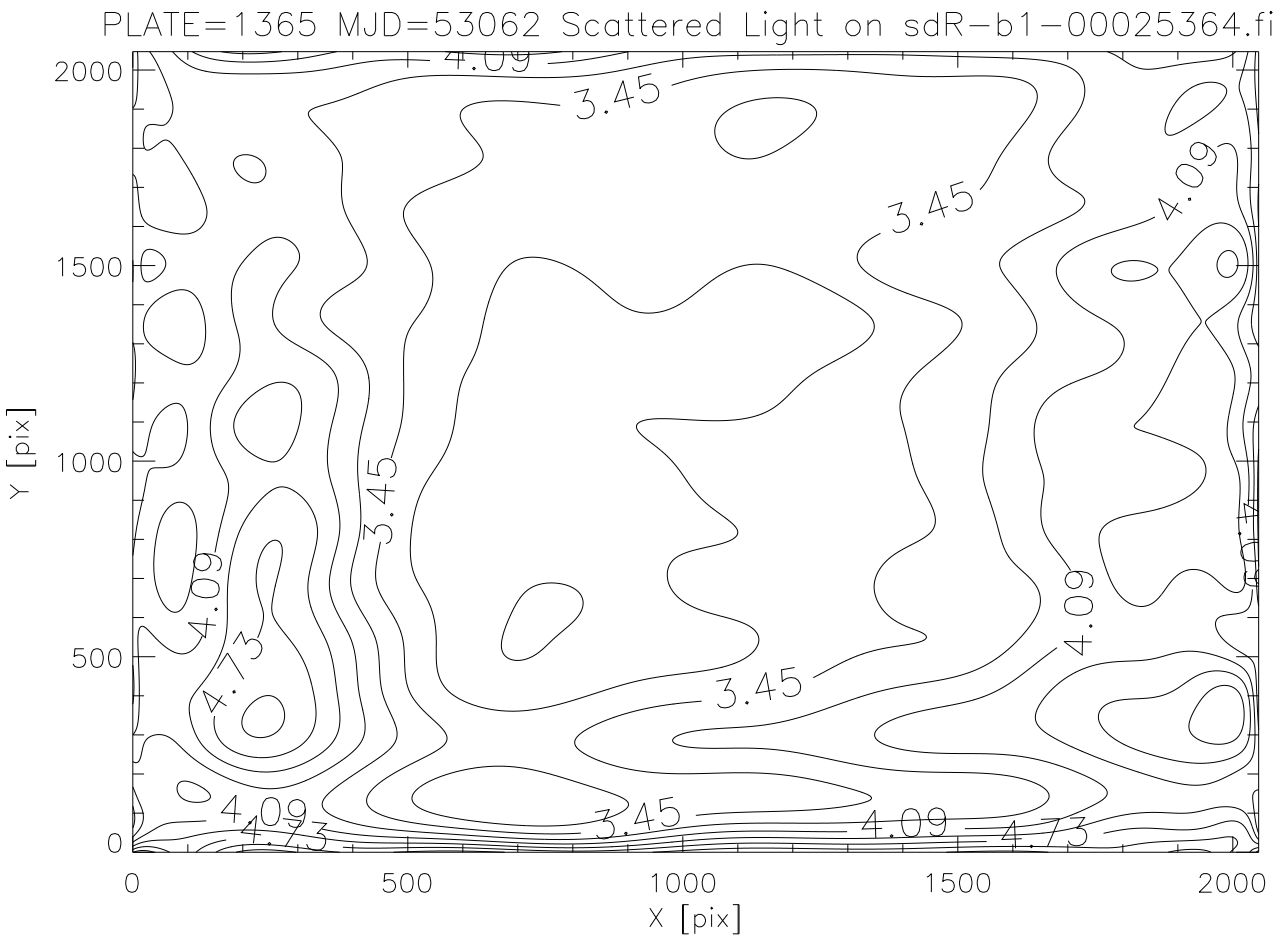

PLATE=1365 MJD=53062 Superflat sdR-b1-00025367.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

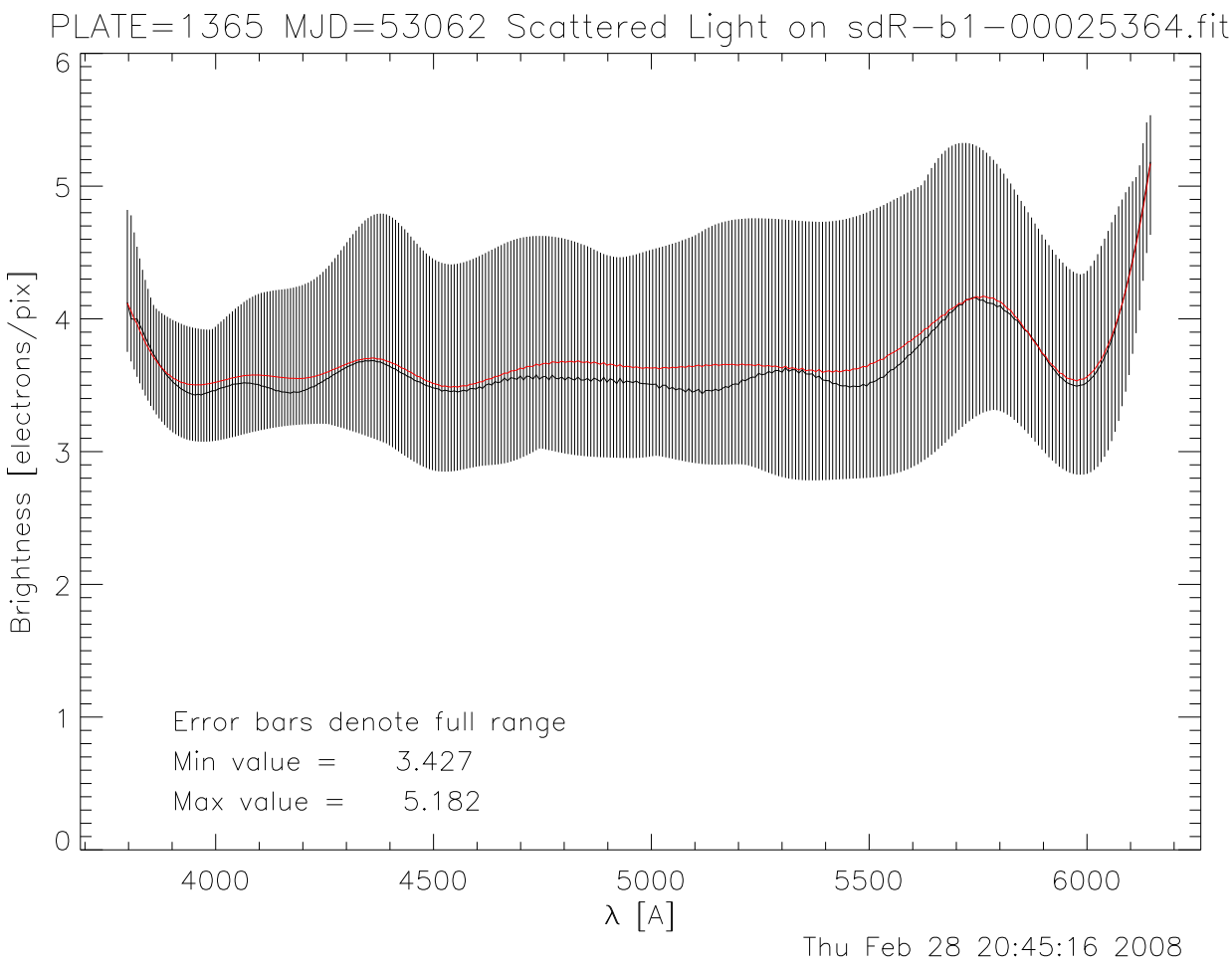

PLATE=1365 MJD=53062 Arcline Fit for sdR-b1-00025368.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 20:40:50 2008

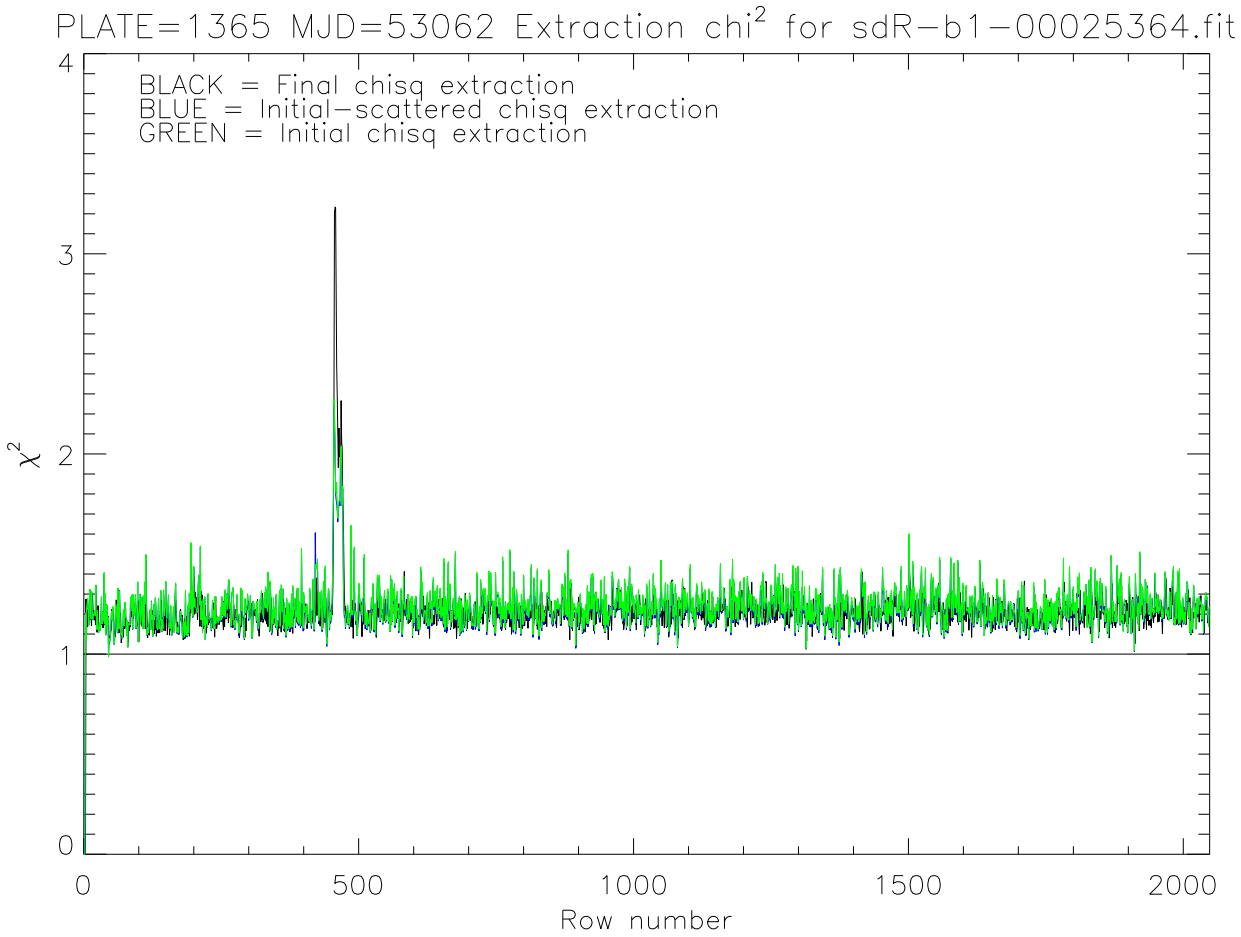

PLATE=1365 MJD=53062 Fiber−Flats for sdR−b1−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.319
Max value = 1.585
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 20:40:59 2008

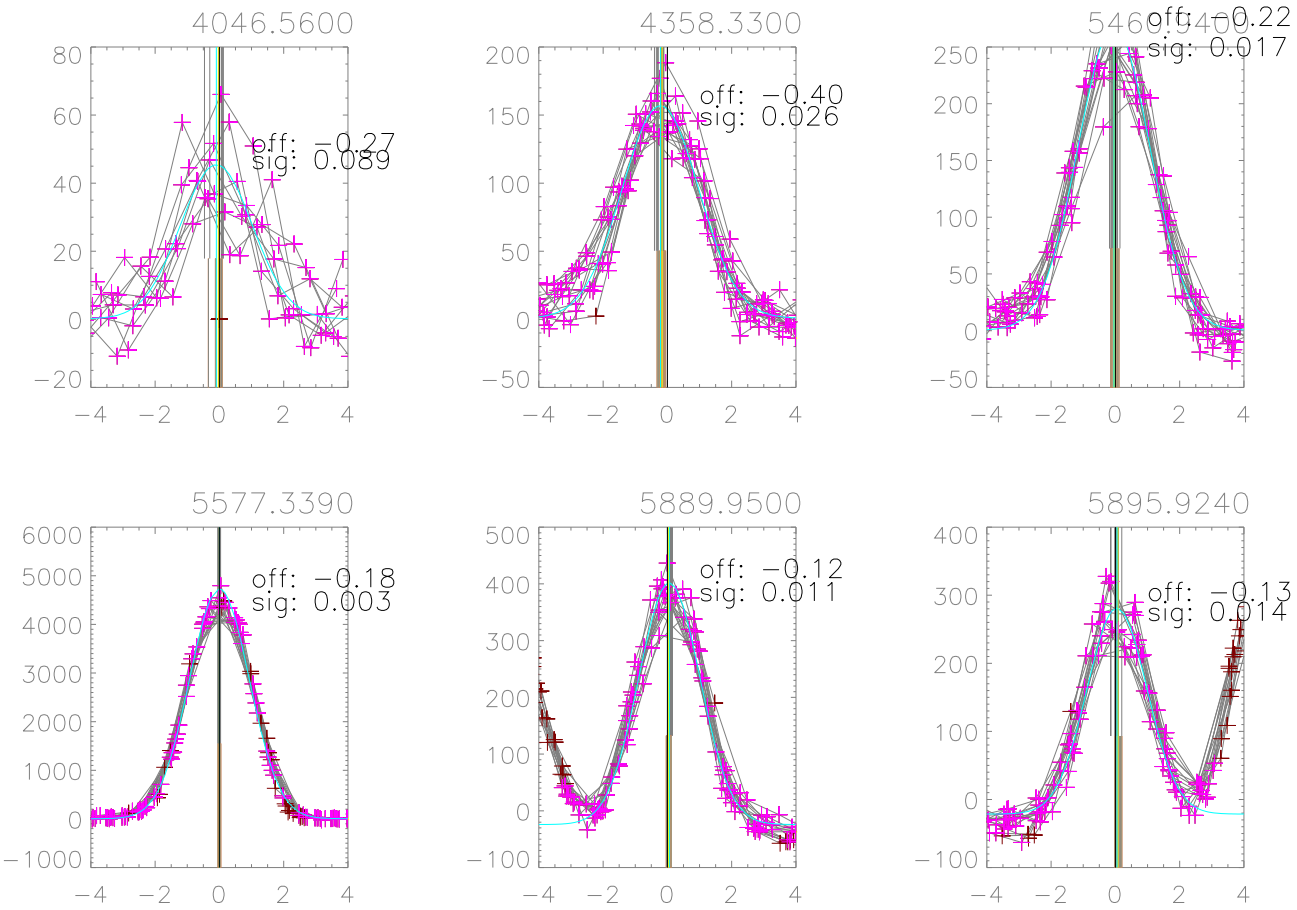

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR−b1−00025364.f
4.64
5.73
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

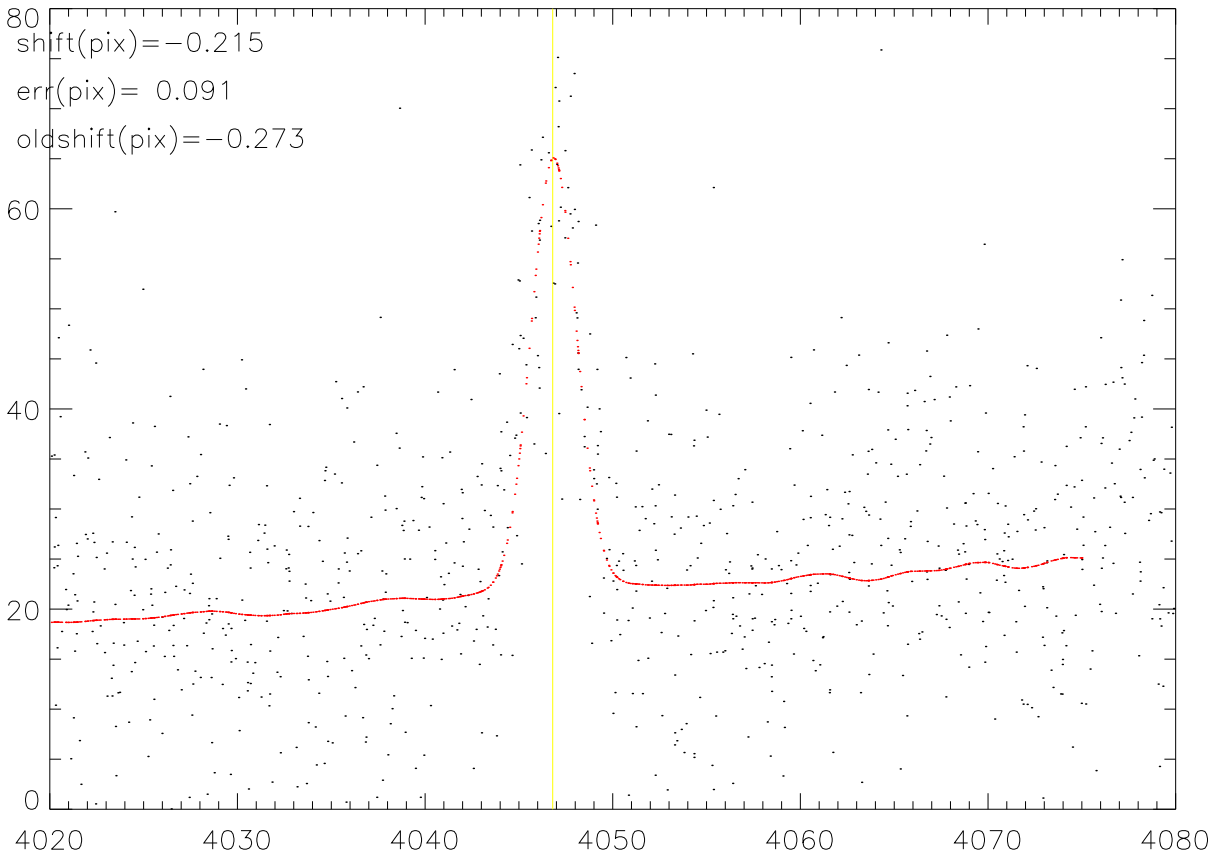

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b1-00025364.f
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 4.788
Max value = 6.891
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 20:41:54 2008

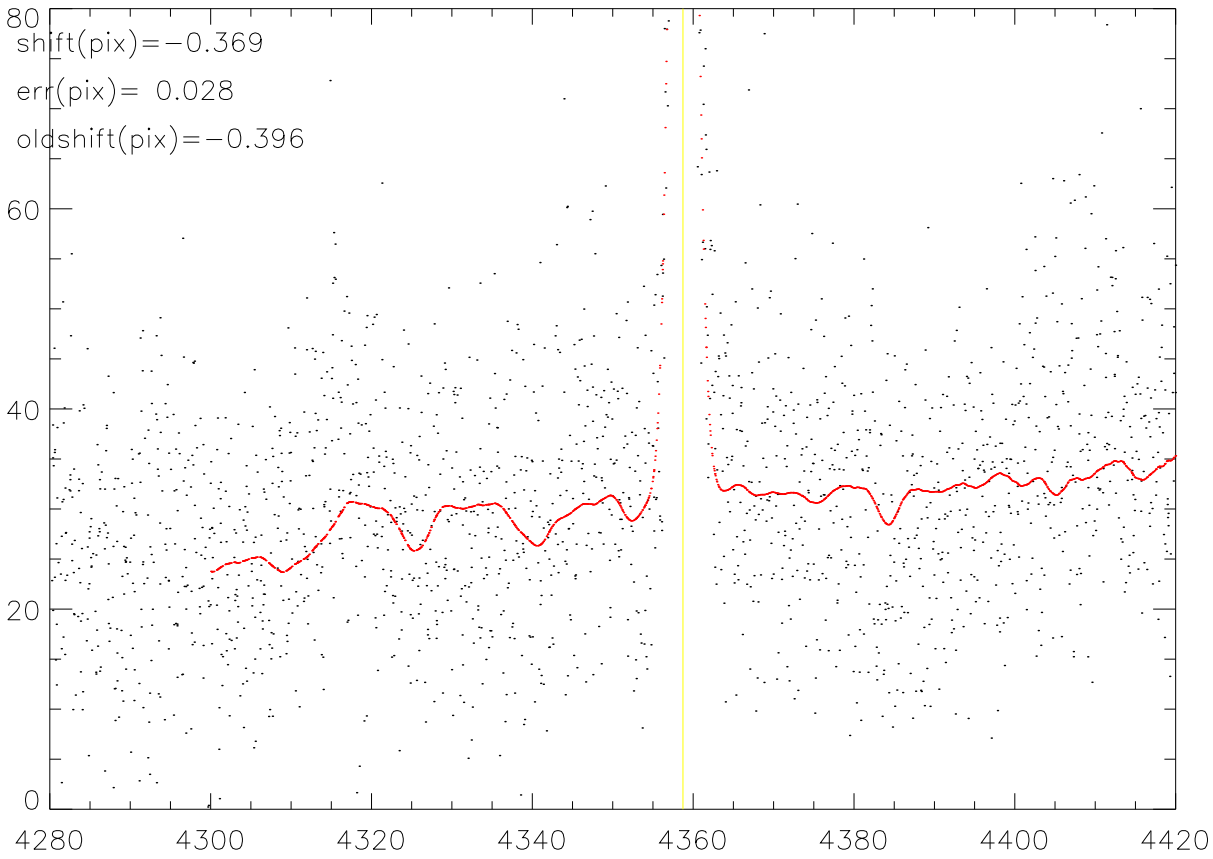

PLATE=1365 MJD=53062 Scattered Light on sdR-b1-00025364.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.45
4.09
4.73

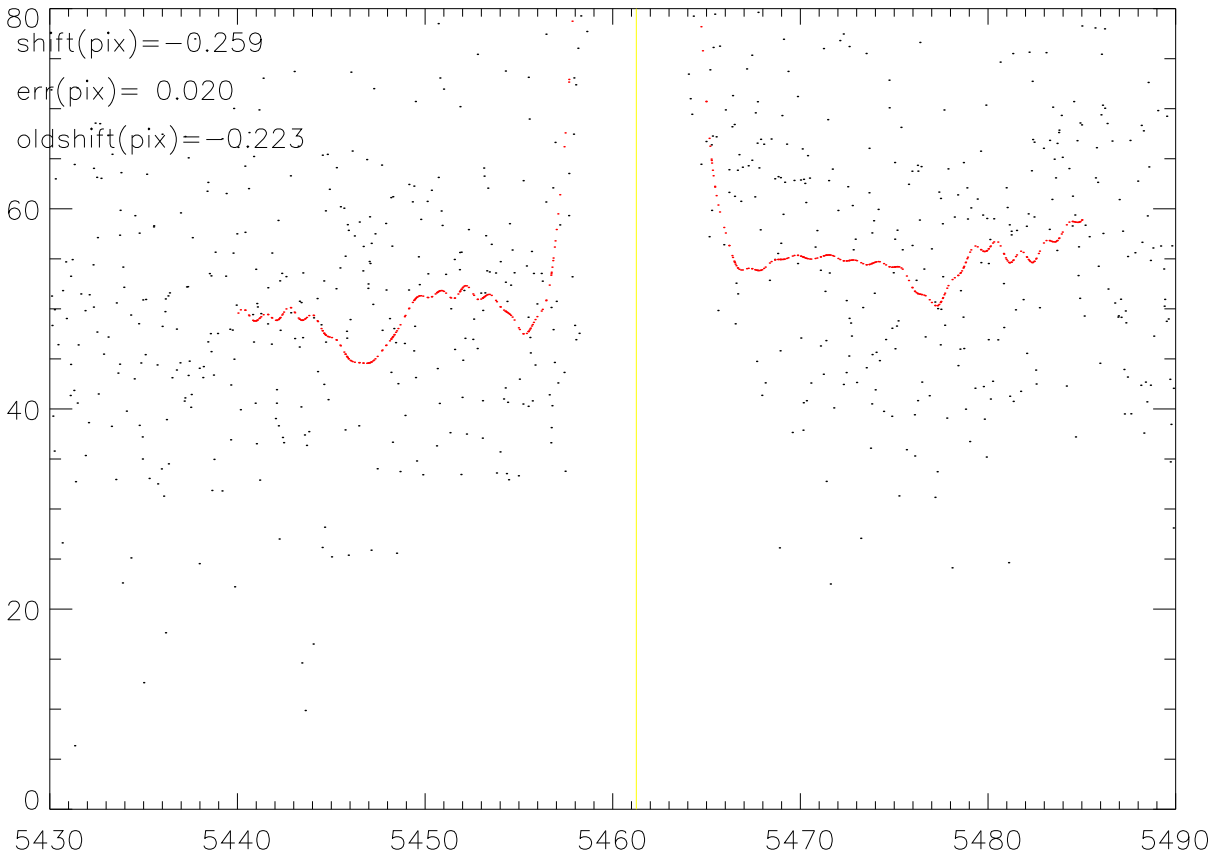

PLATE=1365 MJD=53062 Scattered Light on sdR-b1-00025364.fit
Brightness [electrons/pix]
0
1
2
3
4
5
6
Error bars denote full range
Min value = 3.427
Max value = 5.182
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 20:45:16 2008

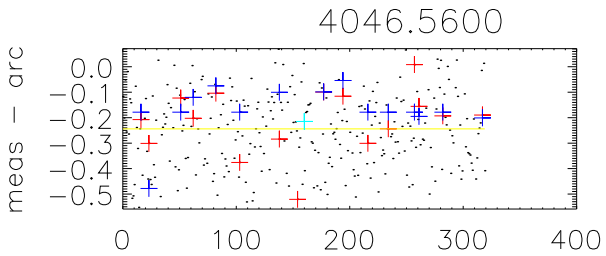

PLATE=1365 MJD=53062 Extraction chi^2 for sdR-b1-00025364.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

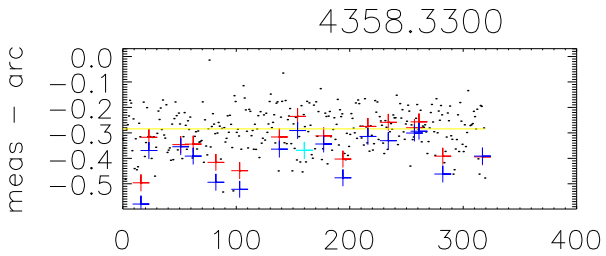

4046.5600
off: −0.27
sig: 0.089
4358.3300
off: −0.40
sig: 0.026
5469.9400
off: −0.22
sig: 0.017
5577.3390
off: −0.18
sig: 0.003
5889.9500
off: −0.12
sig: 0.011
5895.9240
off: −0.13
sig: 0.014

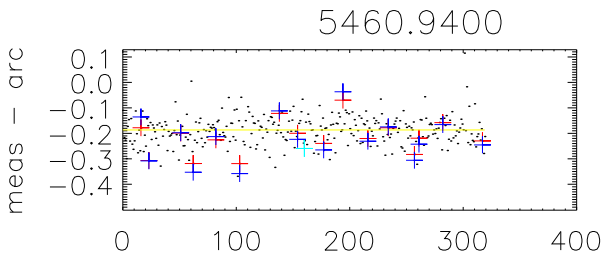

shift(pix)=−0.215
err(pix)= 0.091
oldshift(pix)=−0.273
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

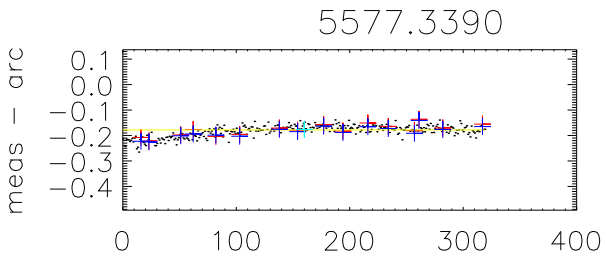

shift(pix)=−0.369
err(pix)= 0.028
oldshift(pix)=−0.396
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

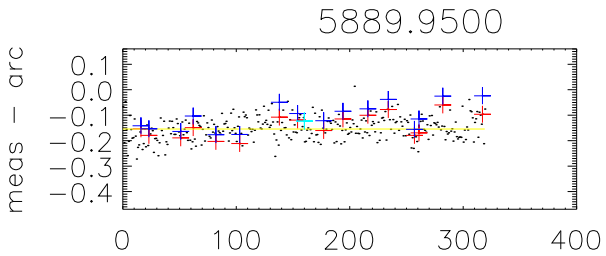

shift(pix)=−0.259
err(pix)= 0.020
oldshift(pix)=−0.223
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

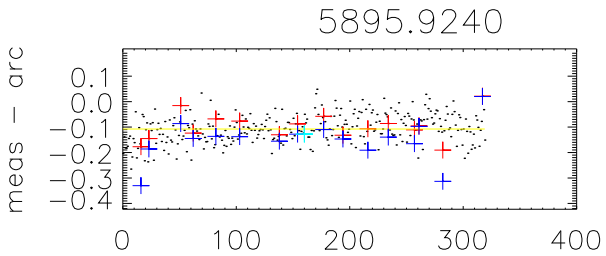

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

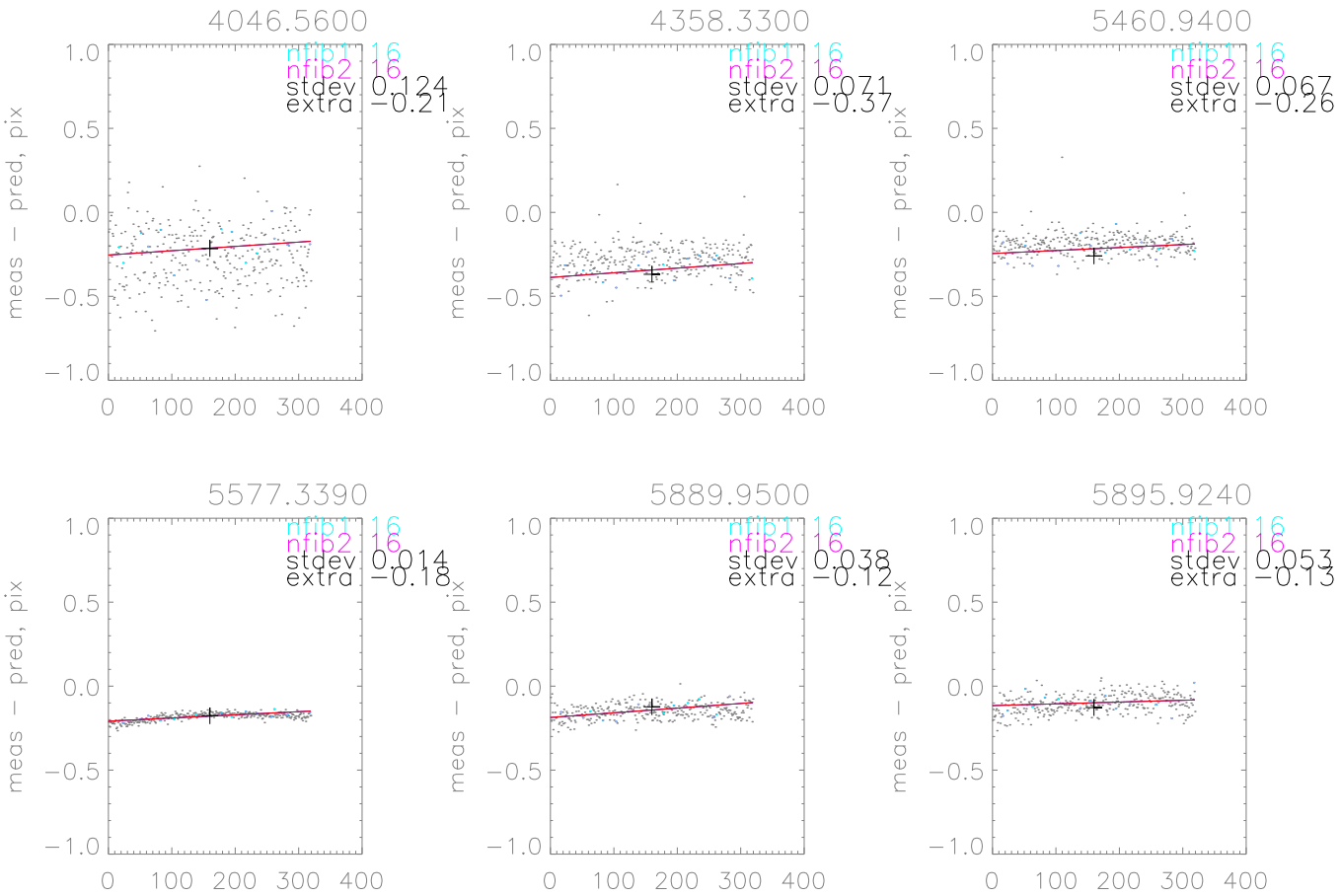

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

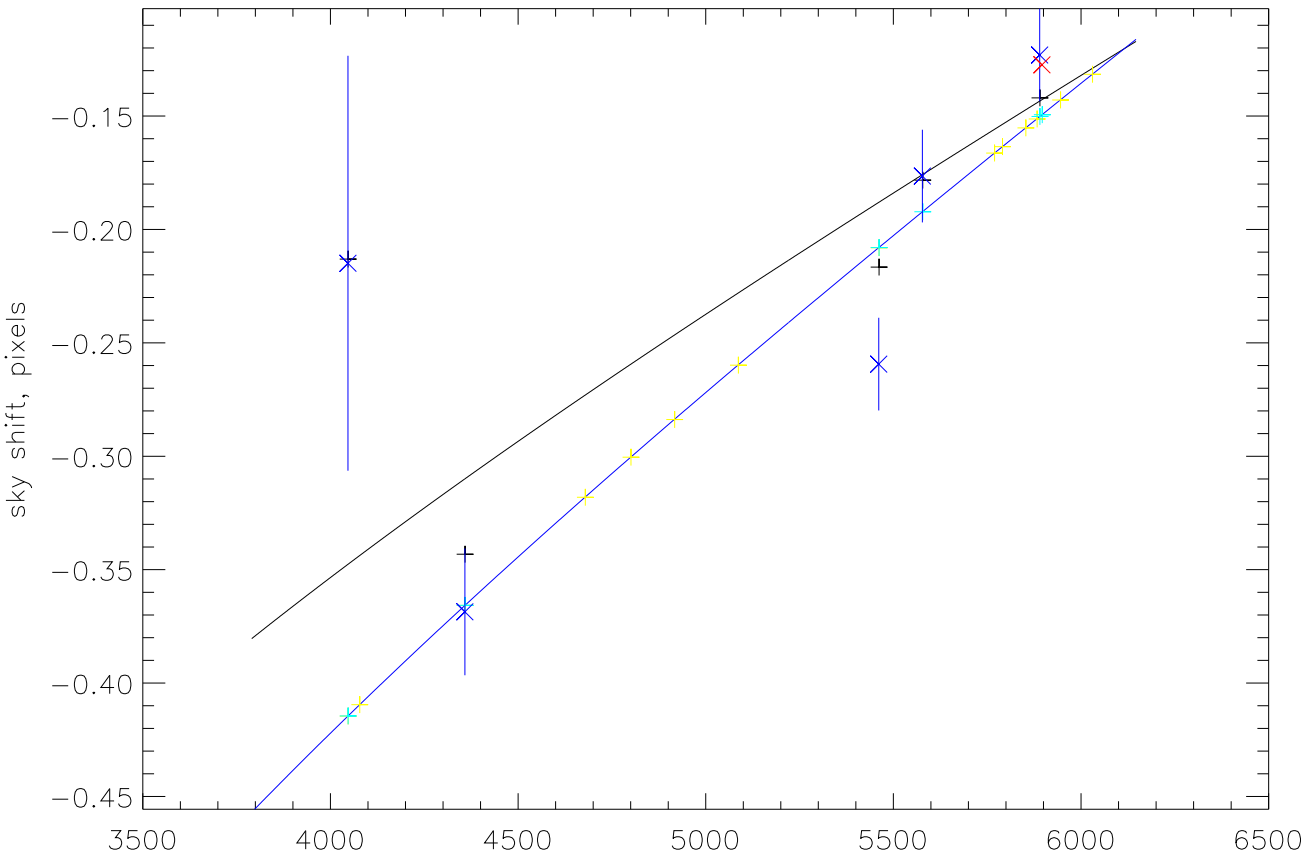

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

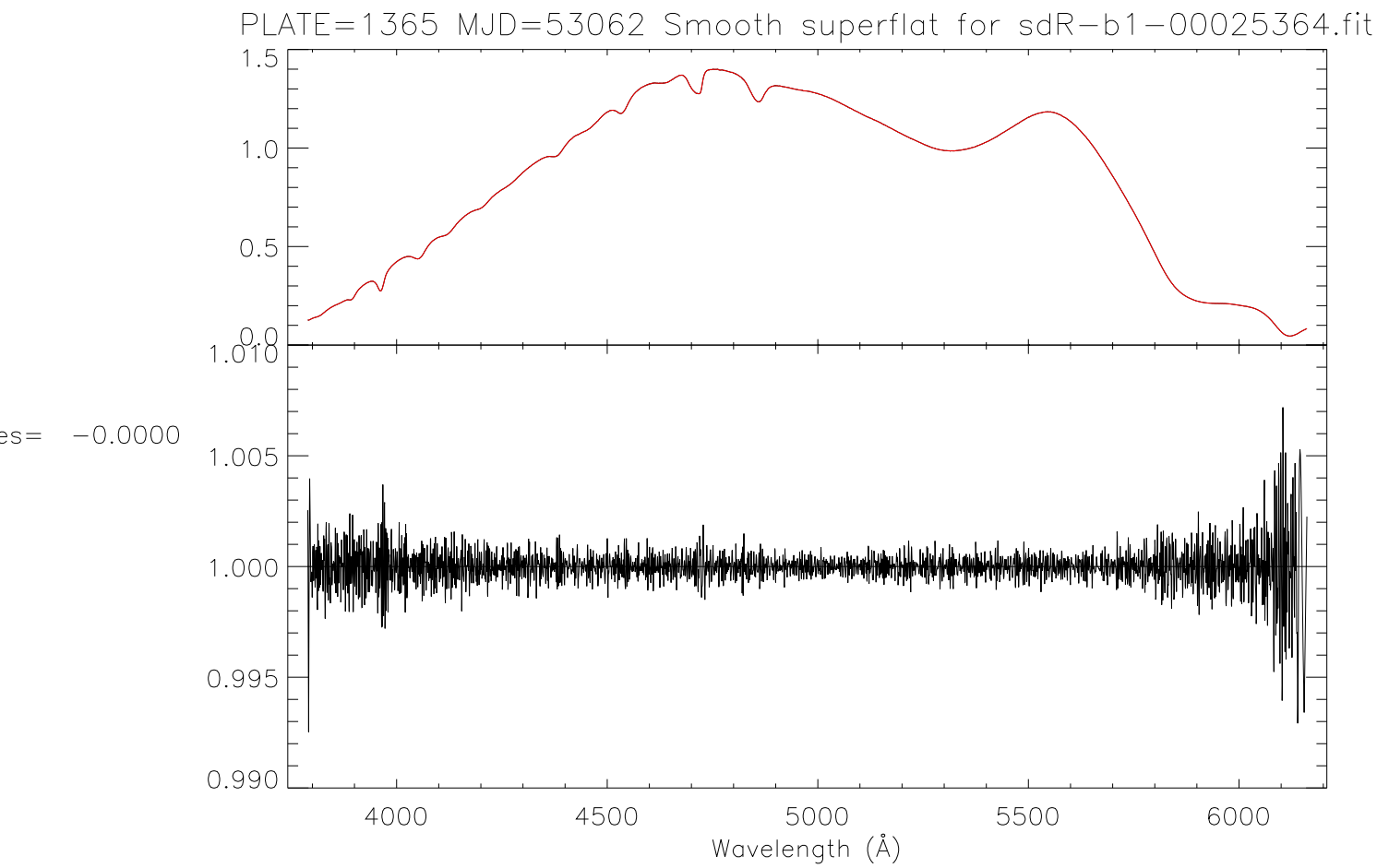

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

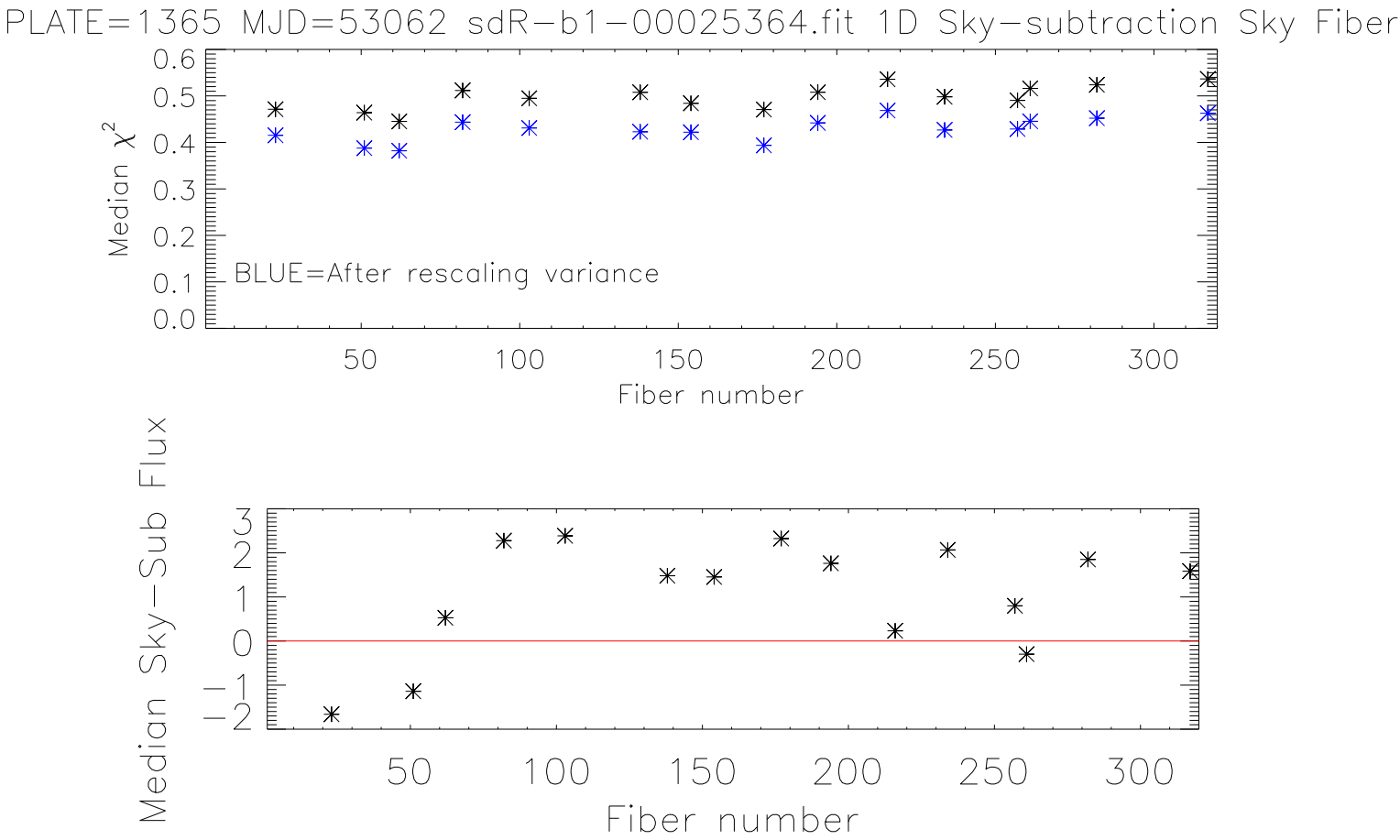

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

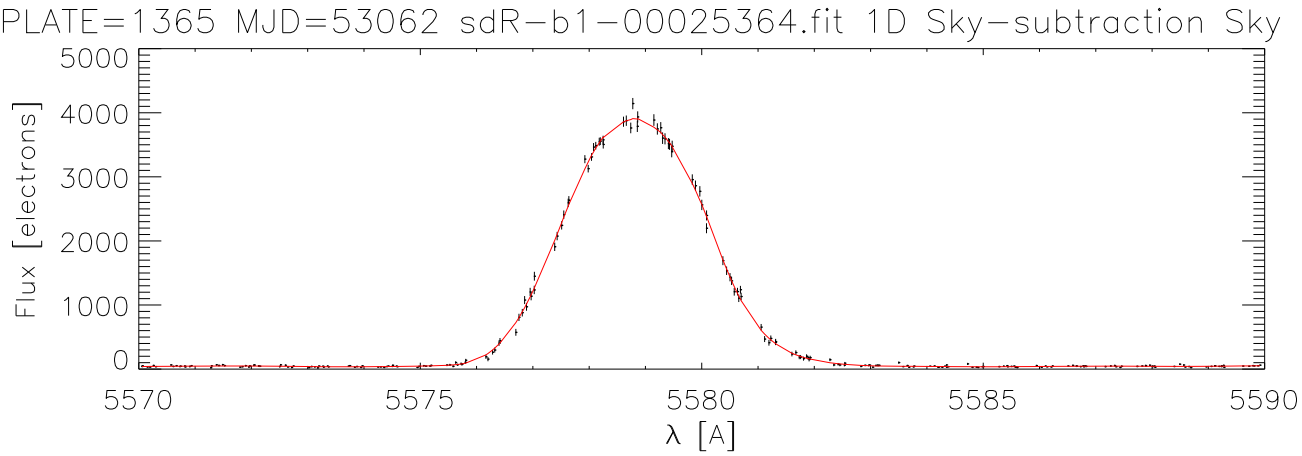

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

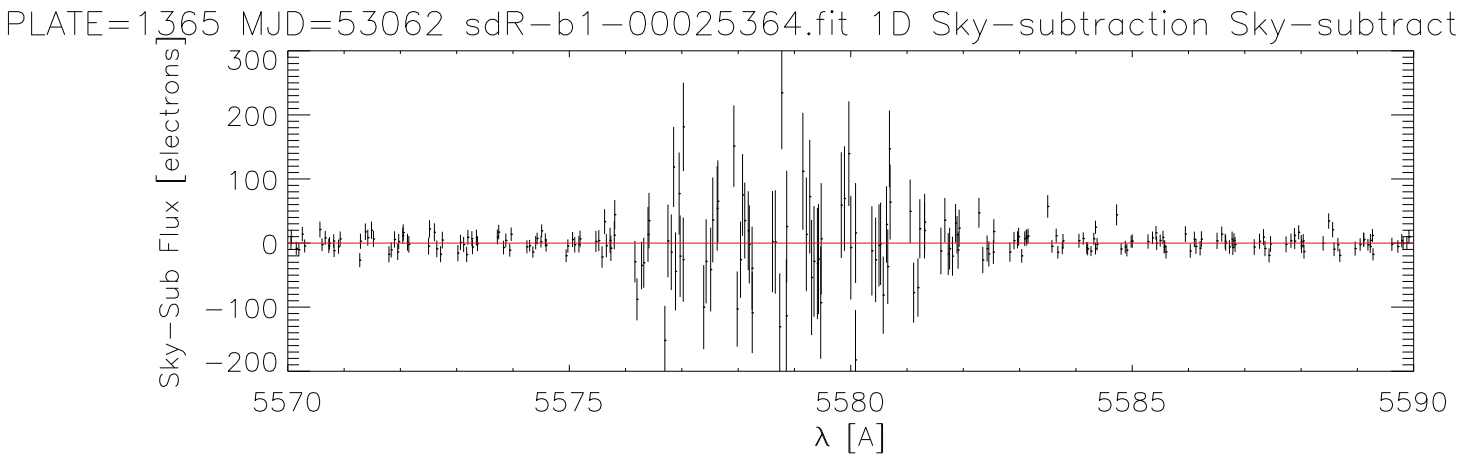

4046.5600
nfib1 16
nfib2 16
stdev 0.124
extra −0.21
4358.3300
nfib1 16
nfib2 16
stdev 0.071
extra −0.37
5460.9400
nfib1 16
nfib2 16
stdev 0.067
extra −0.26
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.18
5889.9500
nfib1 16
nfib2 16
stdev 0.038
extra −0.12
5895.9240
nfib1 16
nfib2 16
stdev 0.053
extra −0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

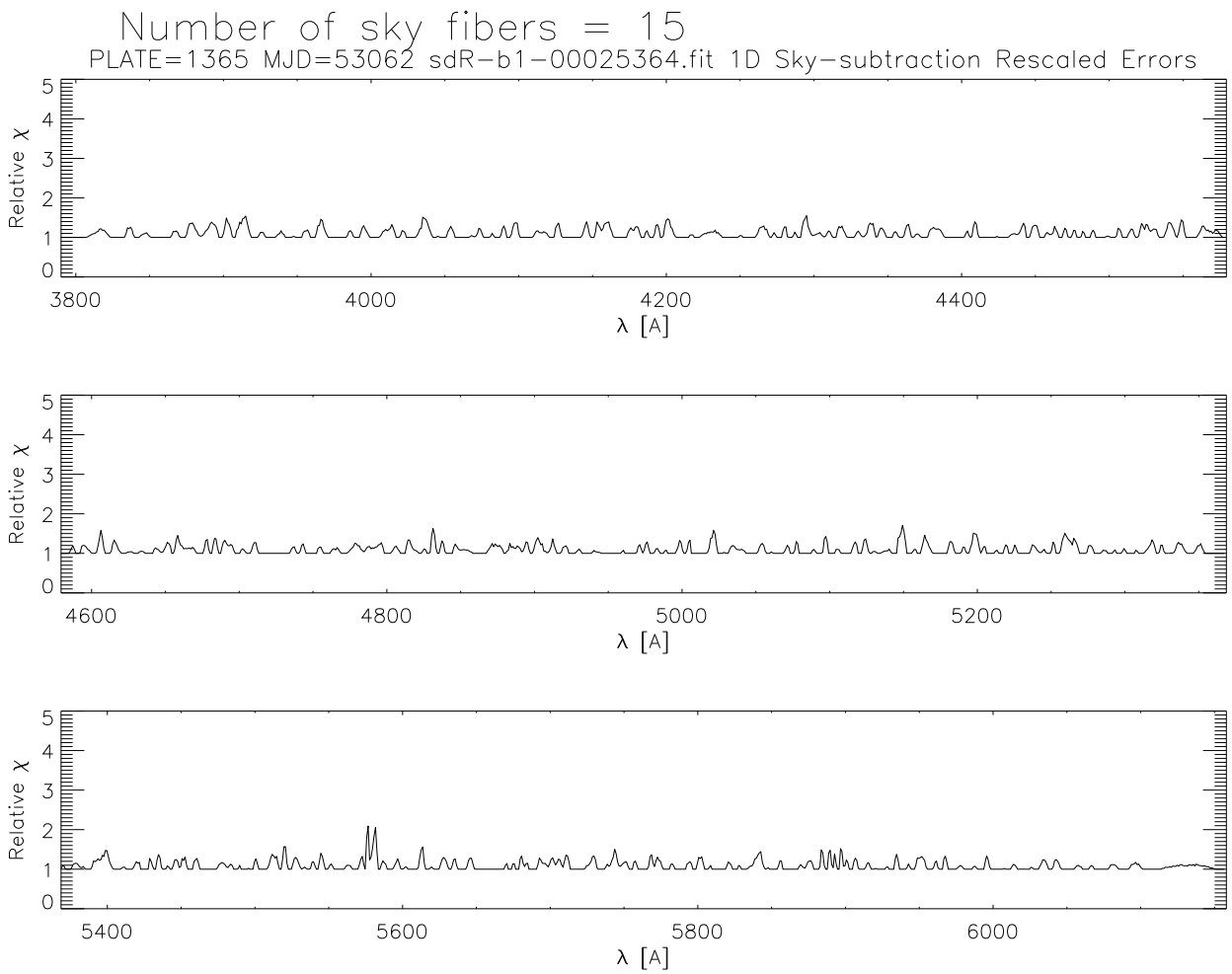

sky shift, pixels
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
3500
4000
4500
5000
5500
6000
6500

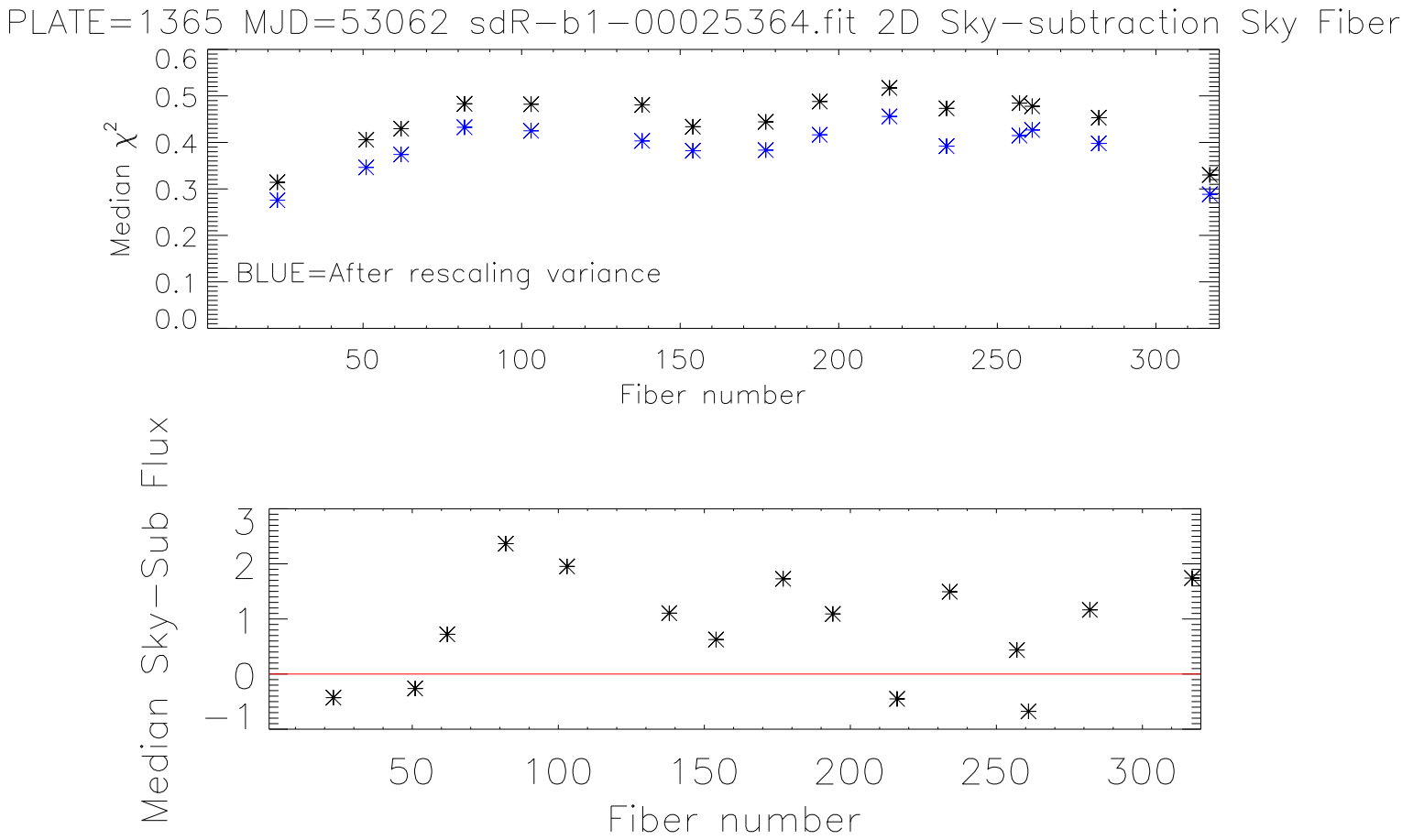

PLATE=1365 MJD=53062 Smooth superflat for sdR-b1-00025364.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

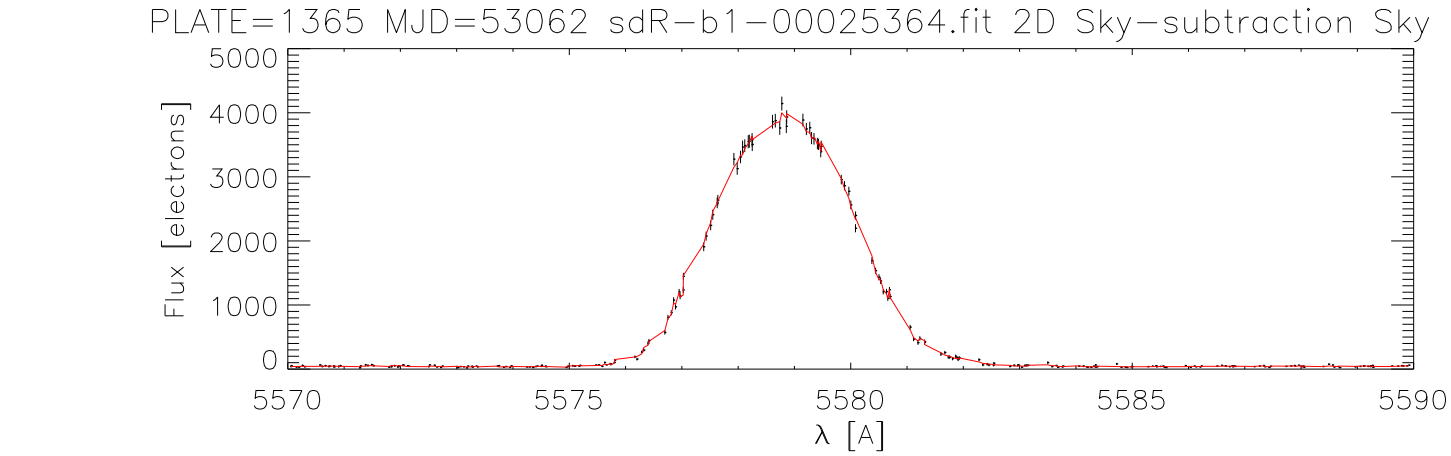

PLATE=1365 MJD=53062 sdR-b1-00025364.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

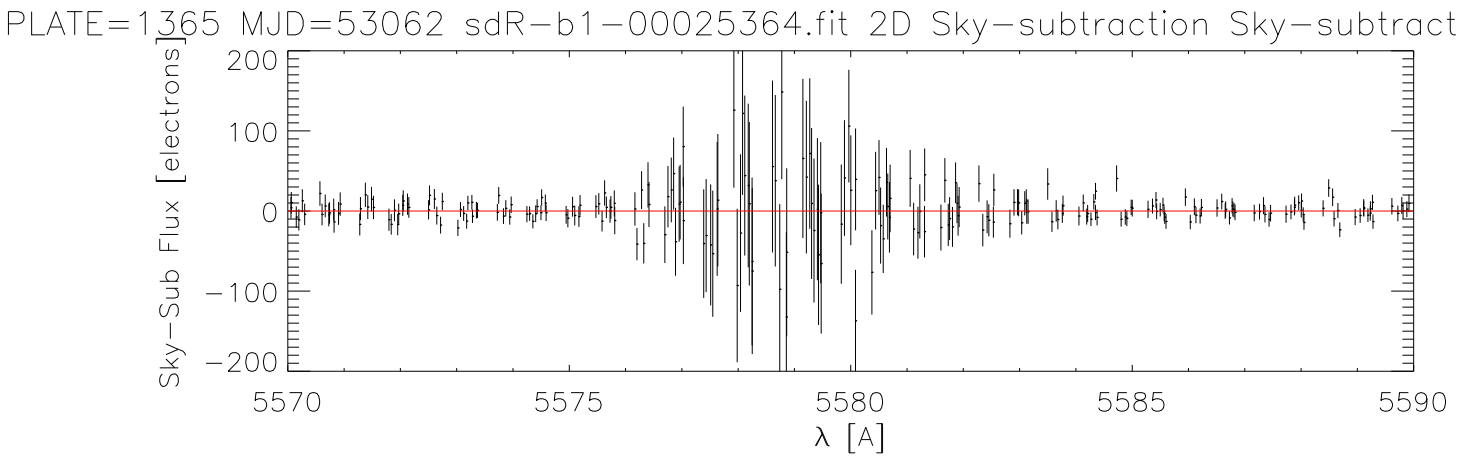

PLATE=1365 MJD=53062 sdR-b1-00025364.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

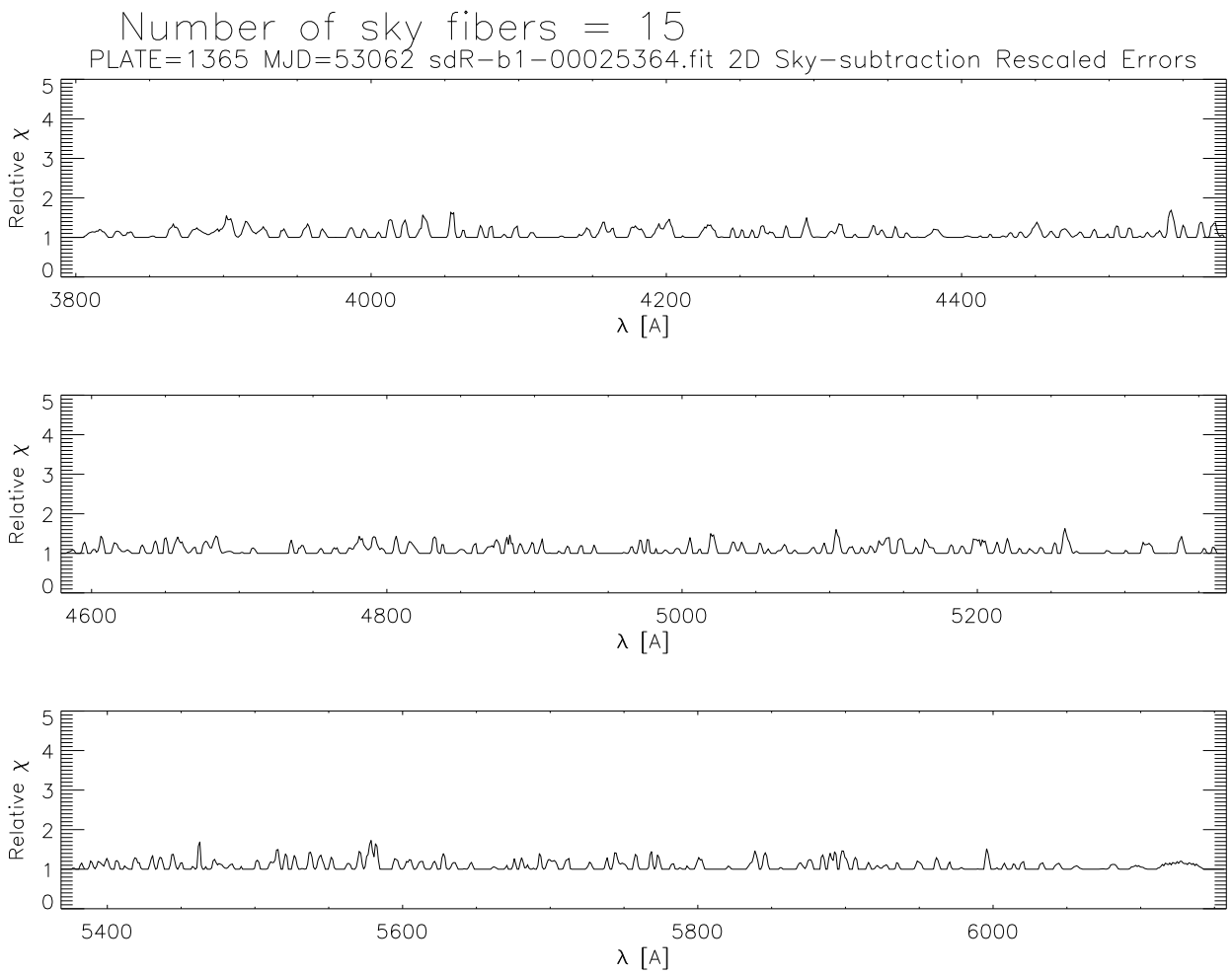

PLATE=1365 MJD=53062 sdR-b1-00025364.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

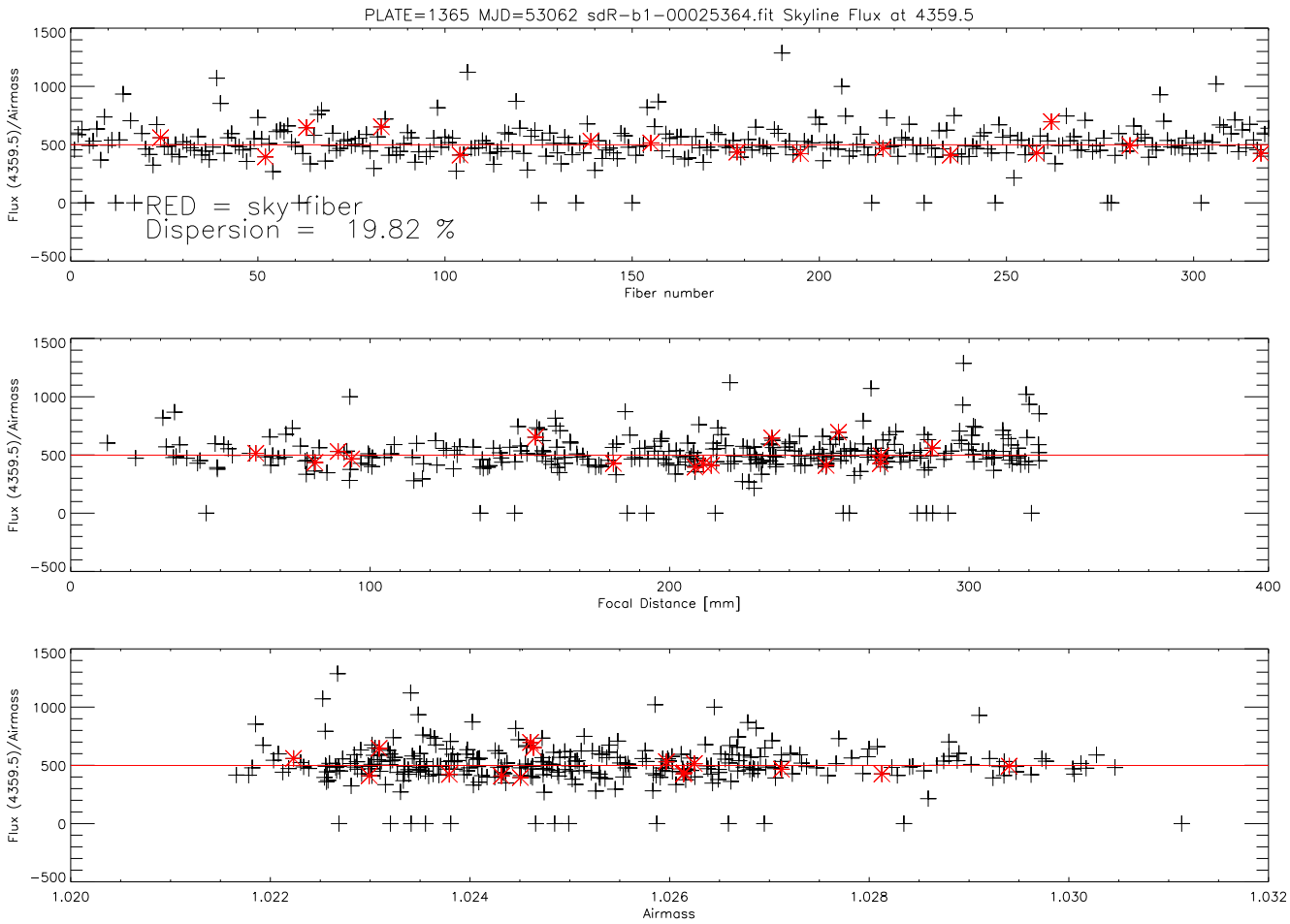

Number of sky fibers = 15
PLATE=1365 MJD=53062 sdR-b1-00025364.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

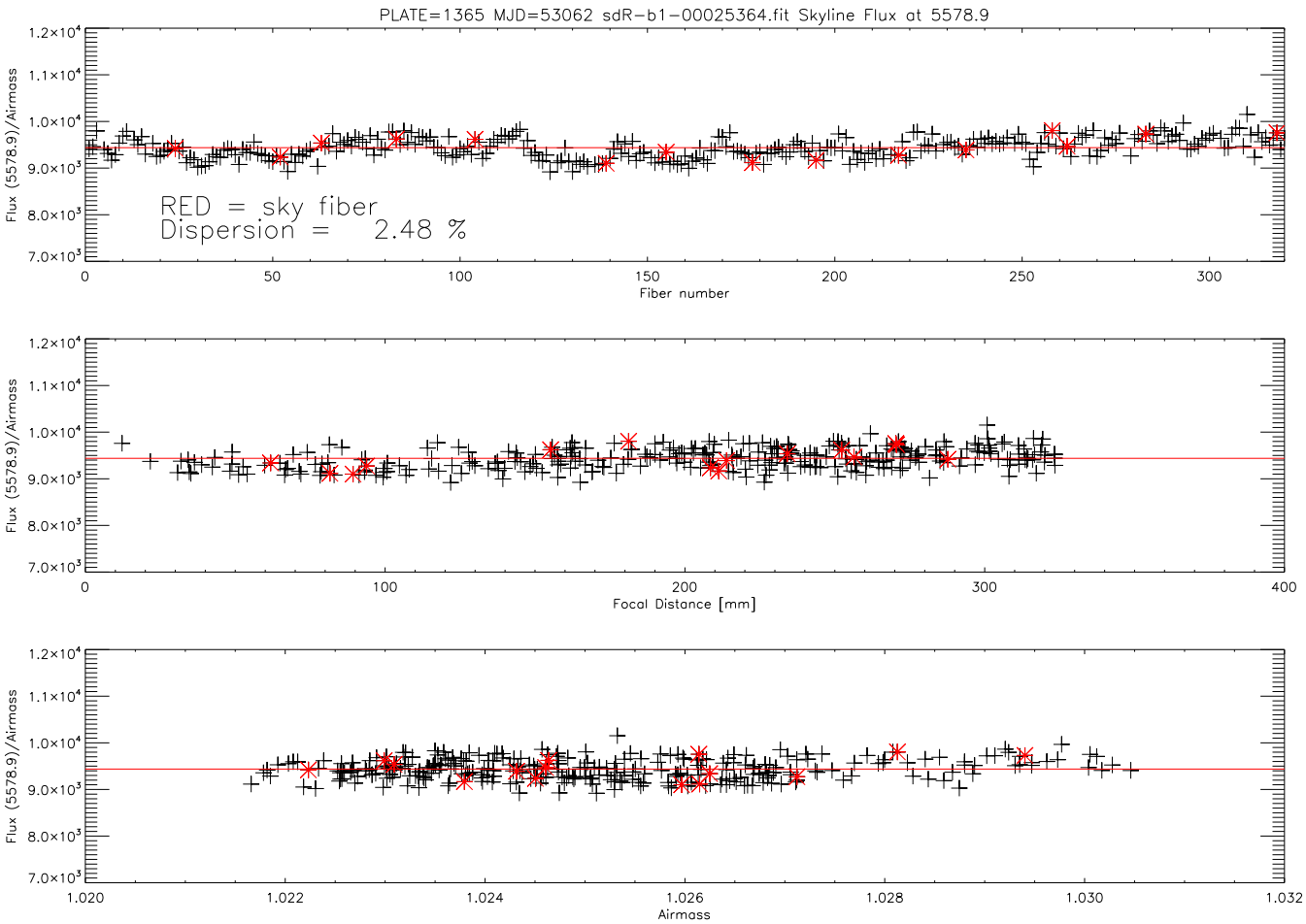

PLATE=1365 MJD=53062 sdR-b1-00025364.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

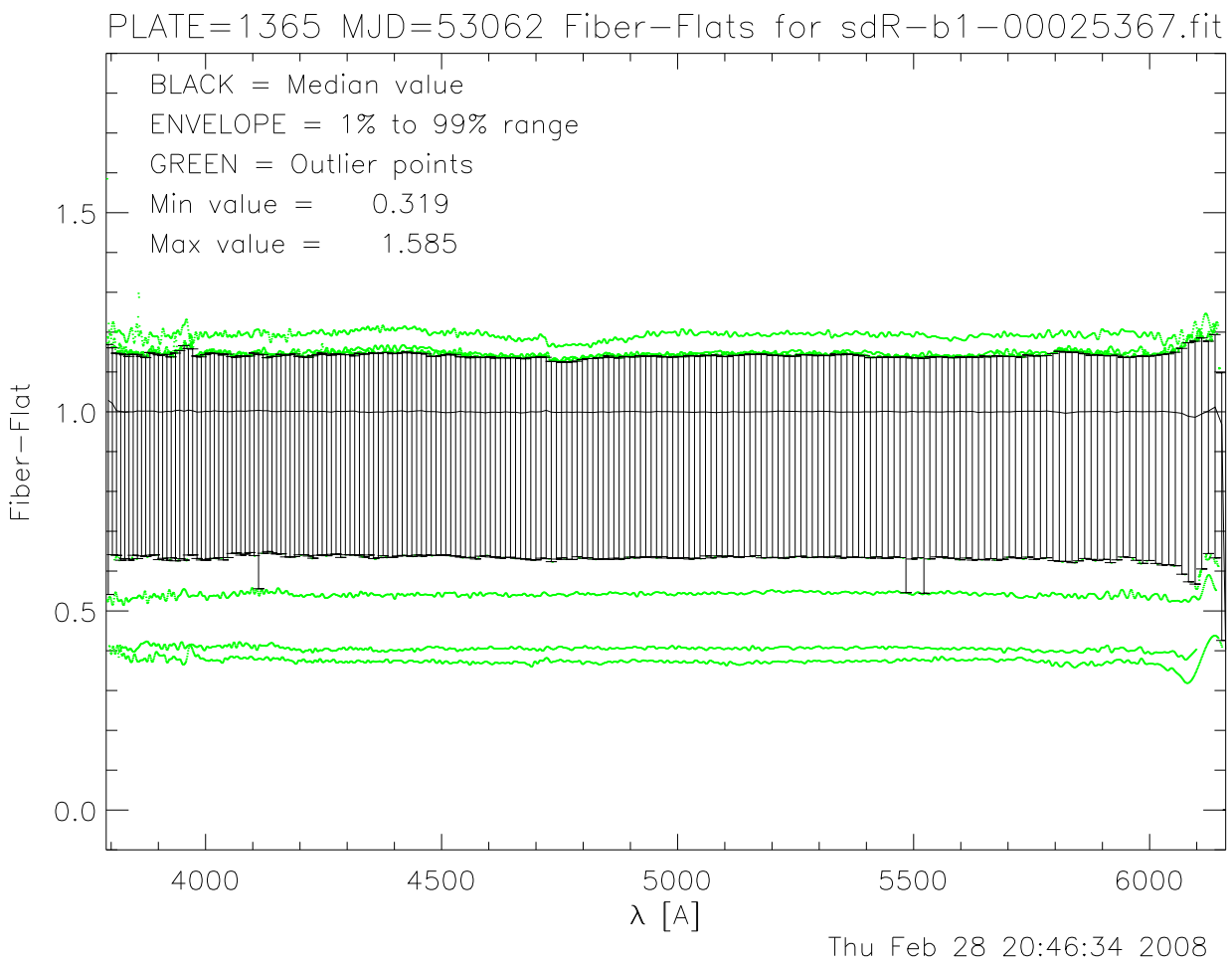

PLATE=1365 MJD=53062 sdR-b1-00025364.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

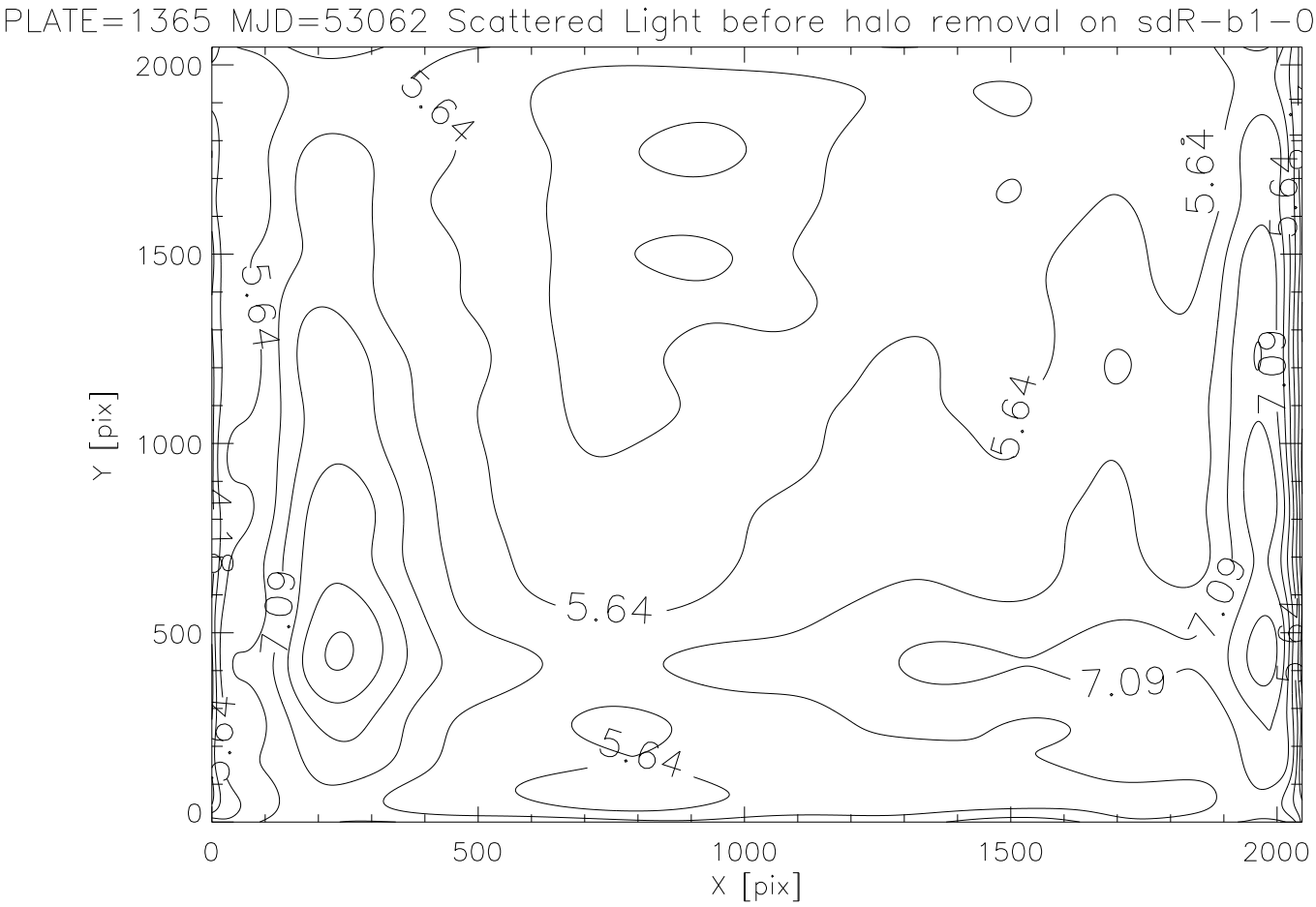

PLATE=1365 MJD=53062 sdR-b1-00025364.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

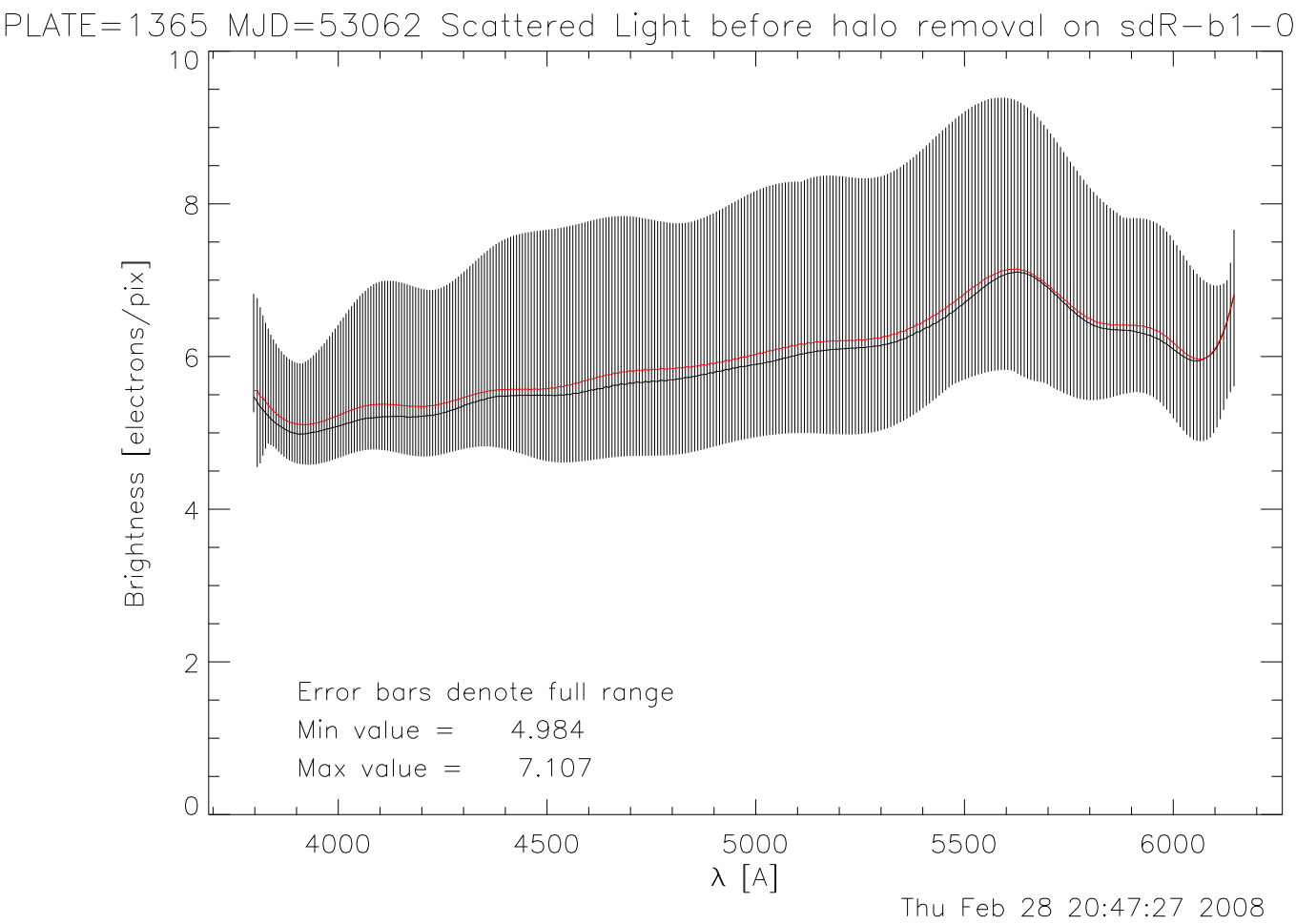

Number of sky fibers = 15
PLATE=1365 MJD=53062 sdR-b1-00025364.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

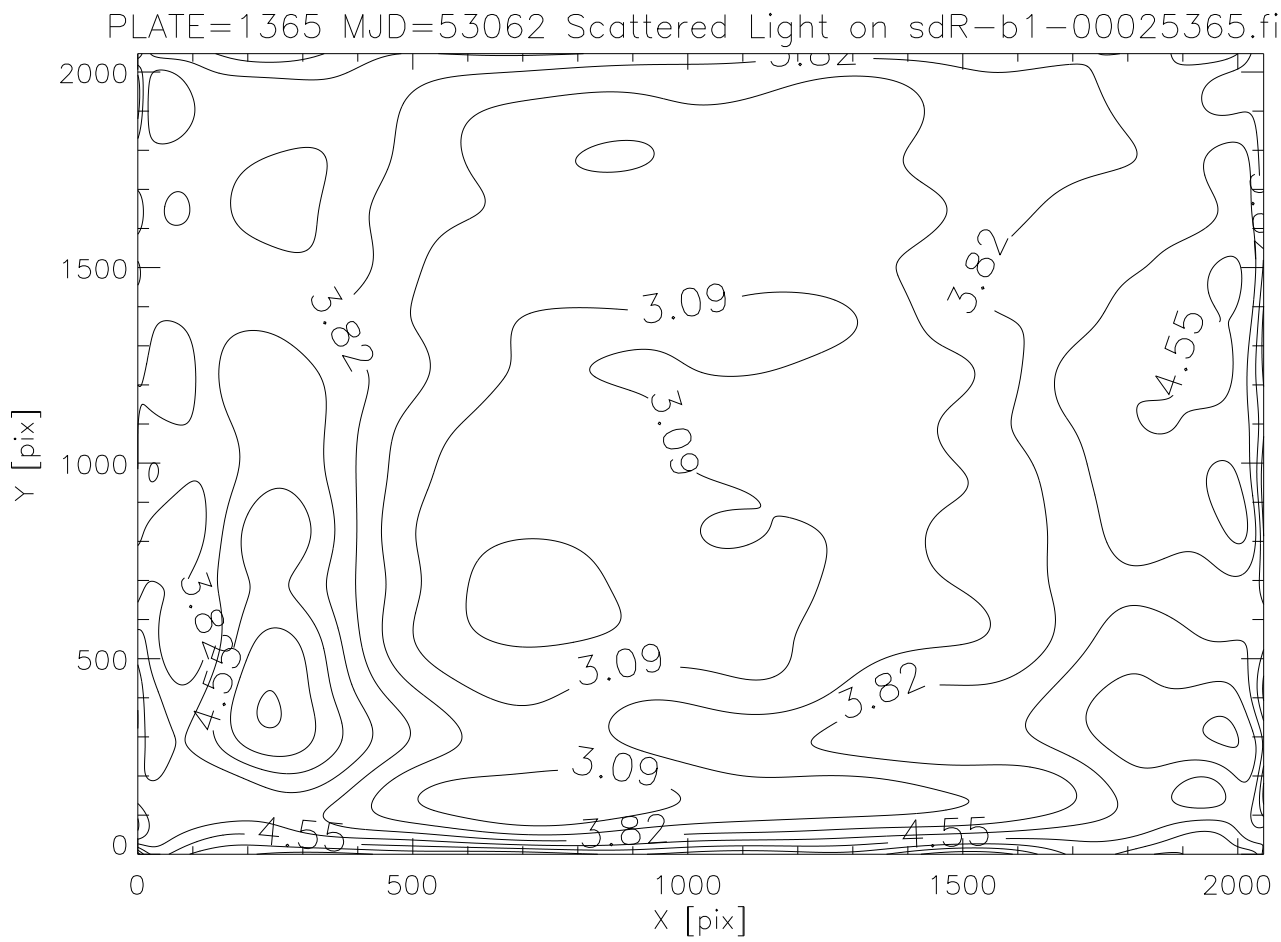

PLATE=1365 MJD=53062 sdR-b1-00025364.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
++RED = sky+fiber
Dispersion = 19.82 %
Fiber number
Focal Distance [mm]
Airmass

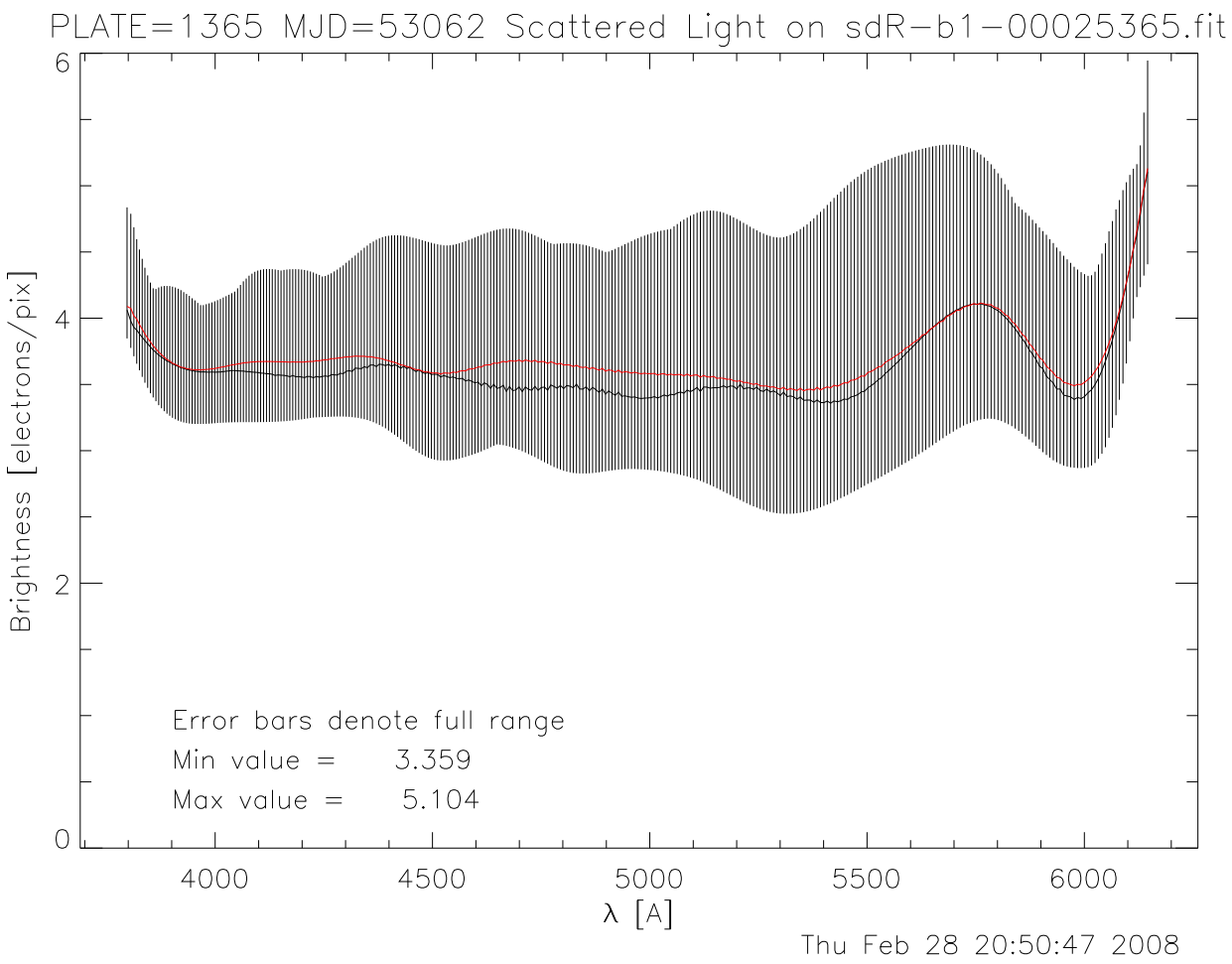

PLATE=1365 MJD=53062 sdR-b1-00025364.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.48 %
Fiber number
Focal Distance [mm]
Airmass

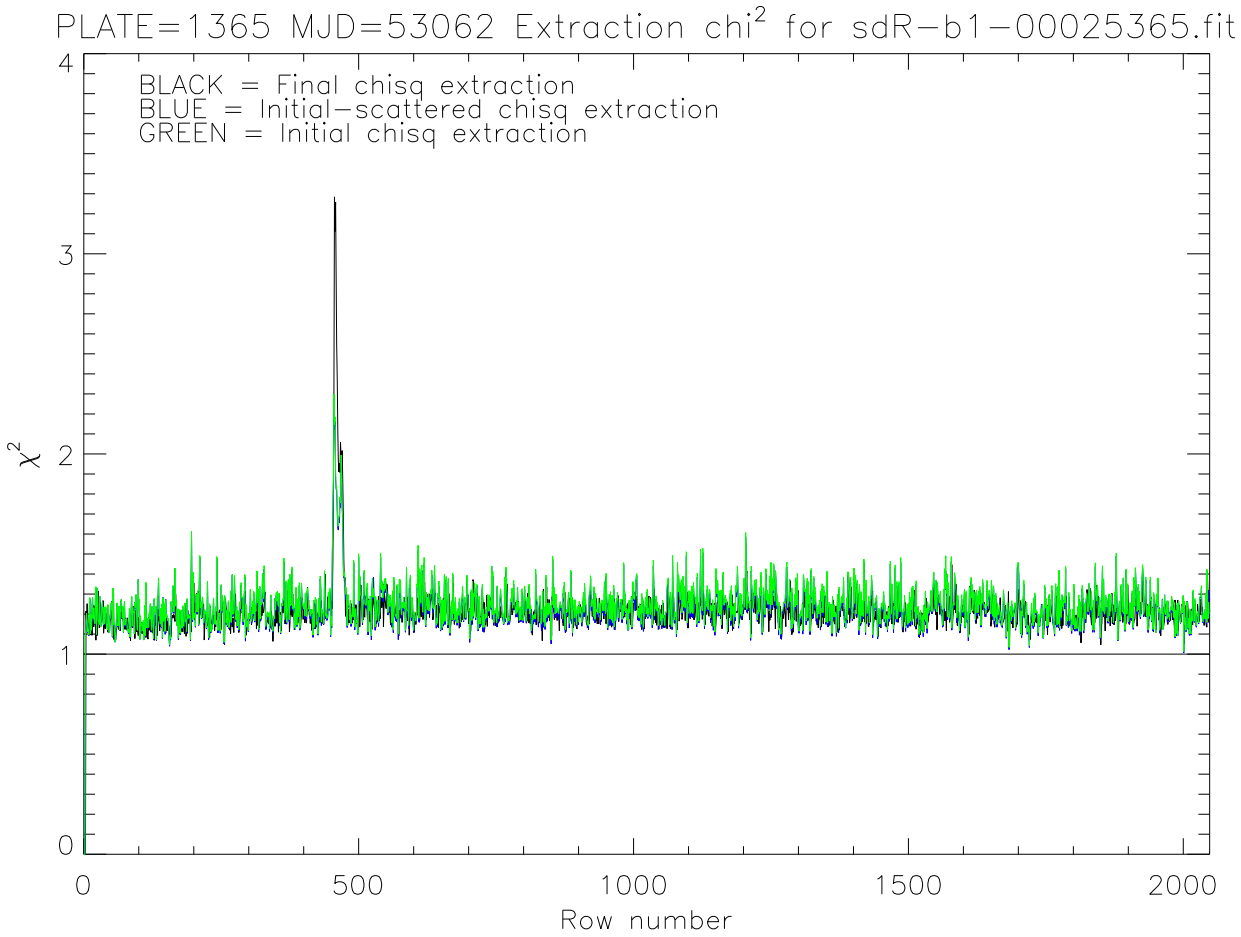

PLATE=1365 MJD=53062 Fiber−Flats for sdR−b1−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.319
Max value = 1.585
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 20:46:34 2008

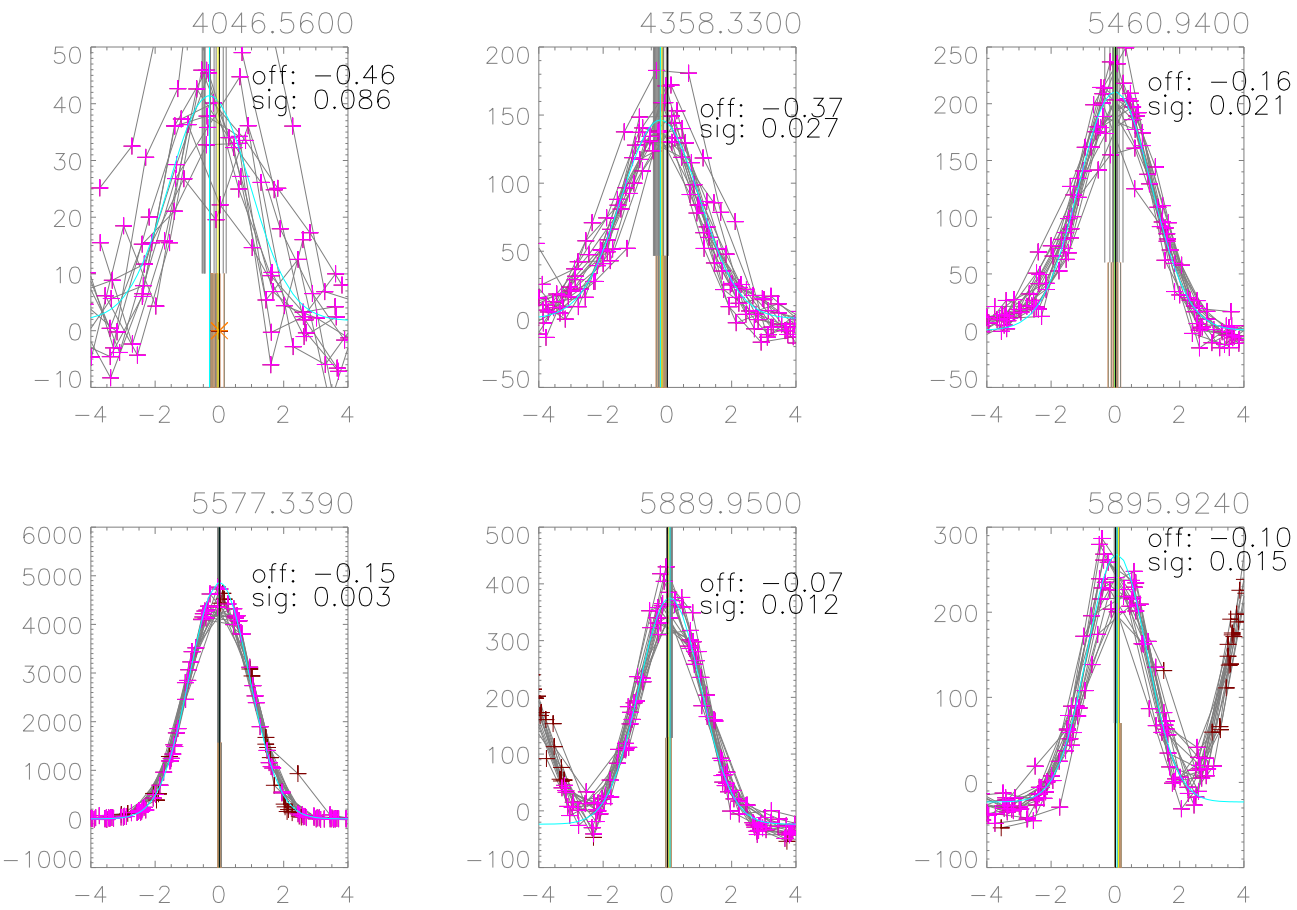

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b1-00025365.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.64
7.09
0.0
4.18
6.07

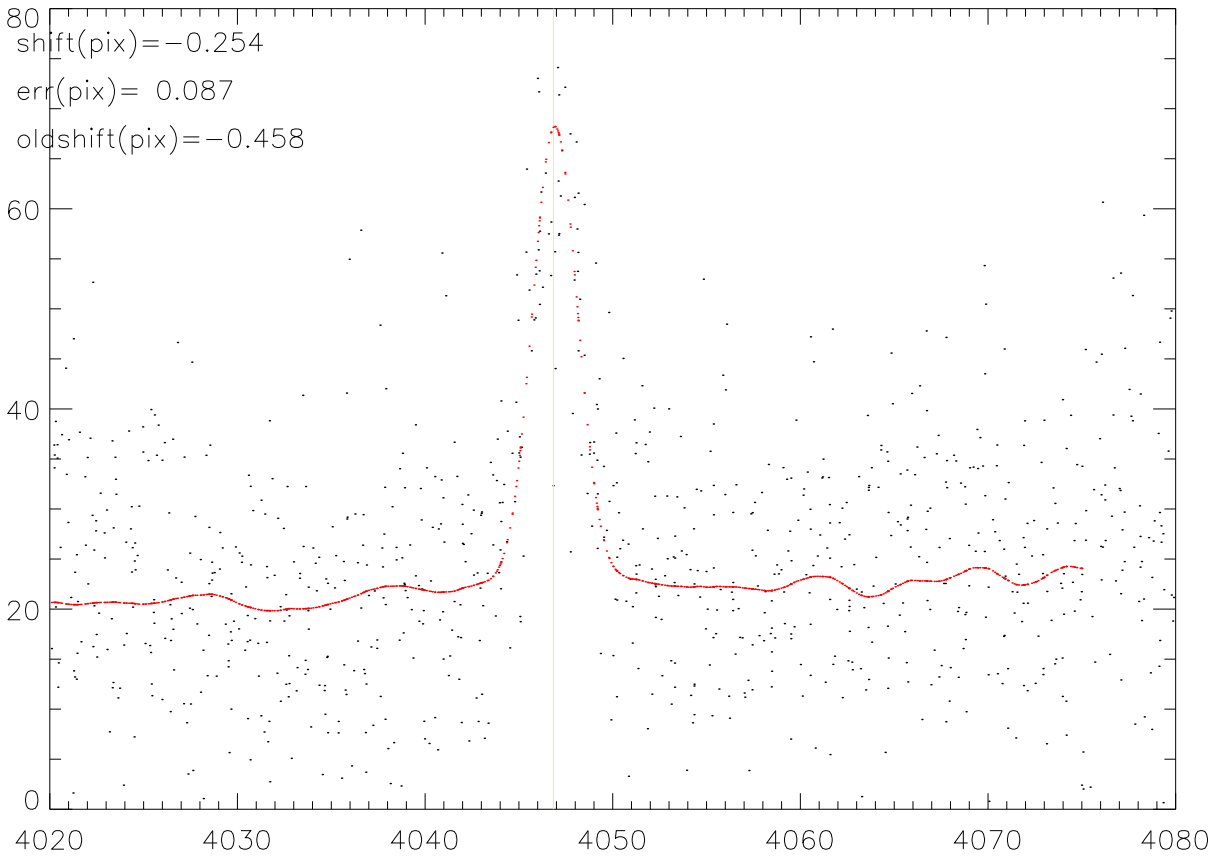

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b1-00025365.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.984
Max value = 7.107
Thu Feb 28 20:47:27 2008

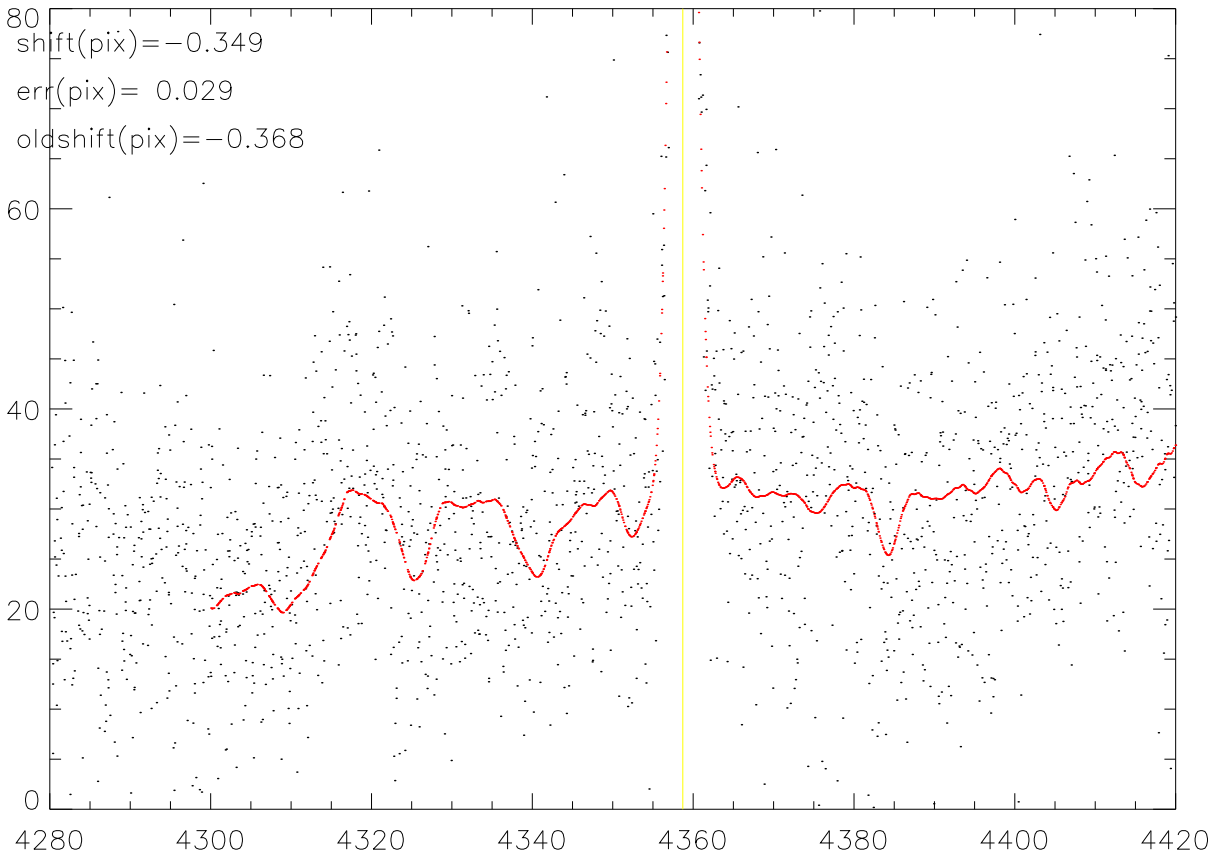

PLATE=1365 MJD=53062 Scattered Light on sdR-b1-00025365.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.82
3.09
4.55

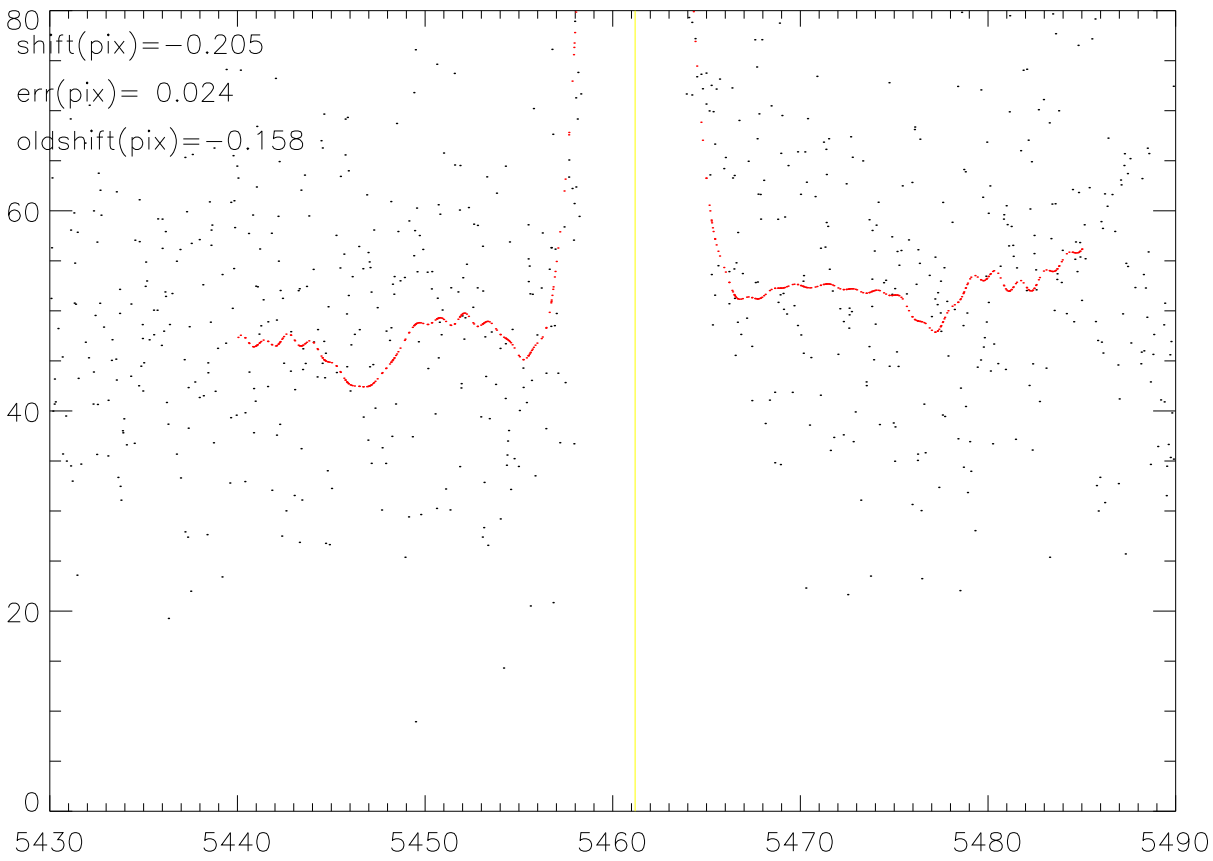

PLATE=1365 MJD=53062 Scattered Light on sdR-b1-00025365.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.359
Max value = 5.104
Thu Feb 28 20:50:47 2008

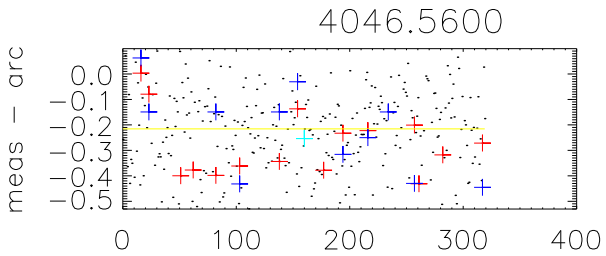

PLATE=1365 MJD=53062 Extraction chi^2 for sdR-b1-00025365.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

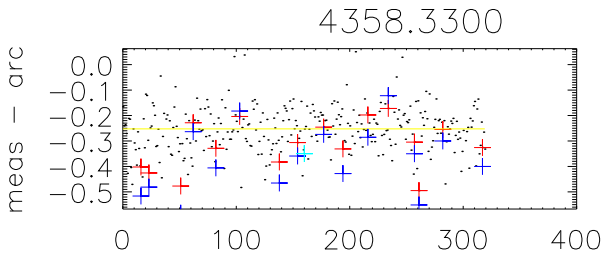

4046.5600
off: −0.46
sig: 0.086
4358.3300
off: −0.37
sig: 0.027
5460.9400
off: −0.16
sig: 0.021
5577.3390
off: −0.15
sig: 0.003
5889.9500
off: −0.07
sig: 0.012
5895.9240
off: −0.10
sig: 0.015

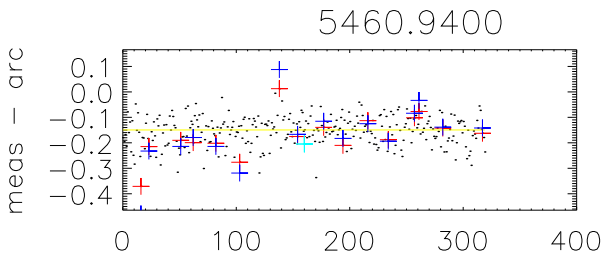

shift(pix)=−0.254
err(pix)= 0.087
oldshift(pix)=−0.458
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

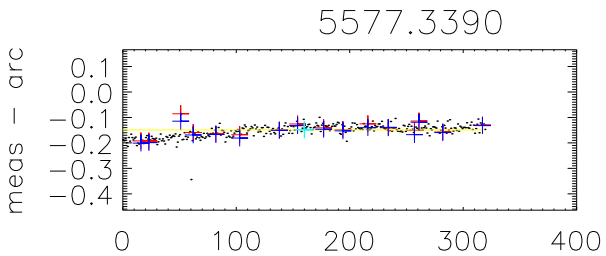

shift(pix)=−0.349
err(pix)= 0.029
oldshift(pix)=−0.368
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

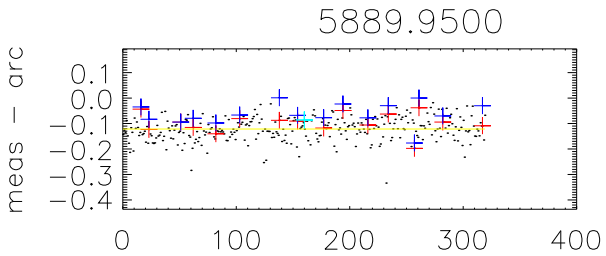

shift(pix)=−0.205
err(pix)= 0.024
oldshift(pix)=−0.158
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

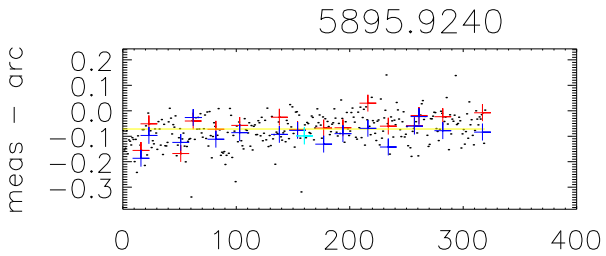

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

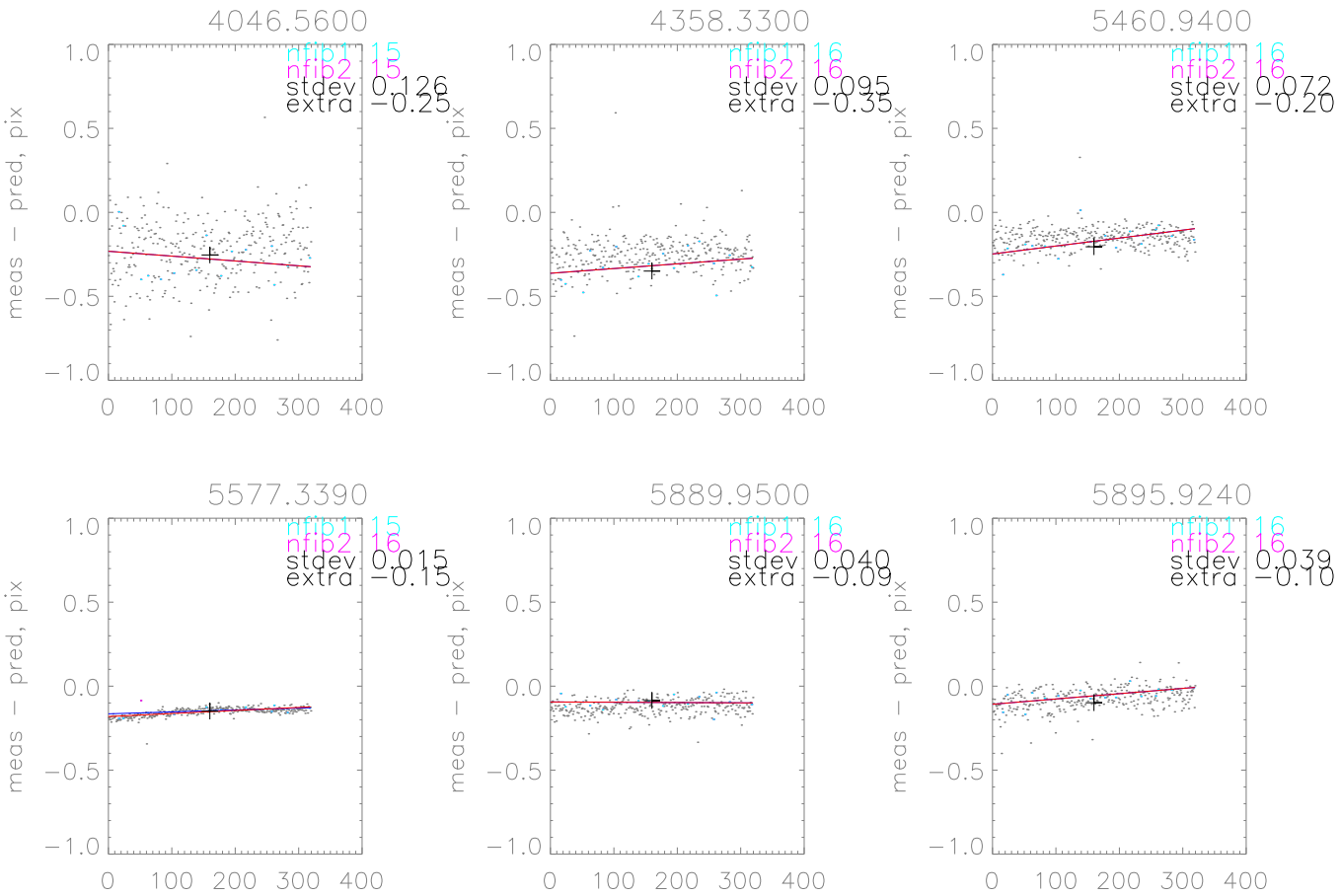

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

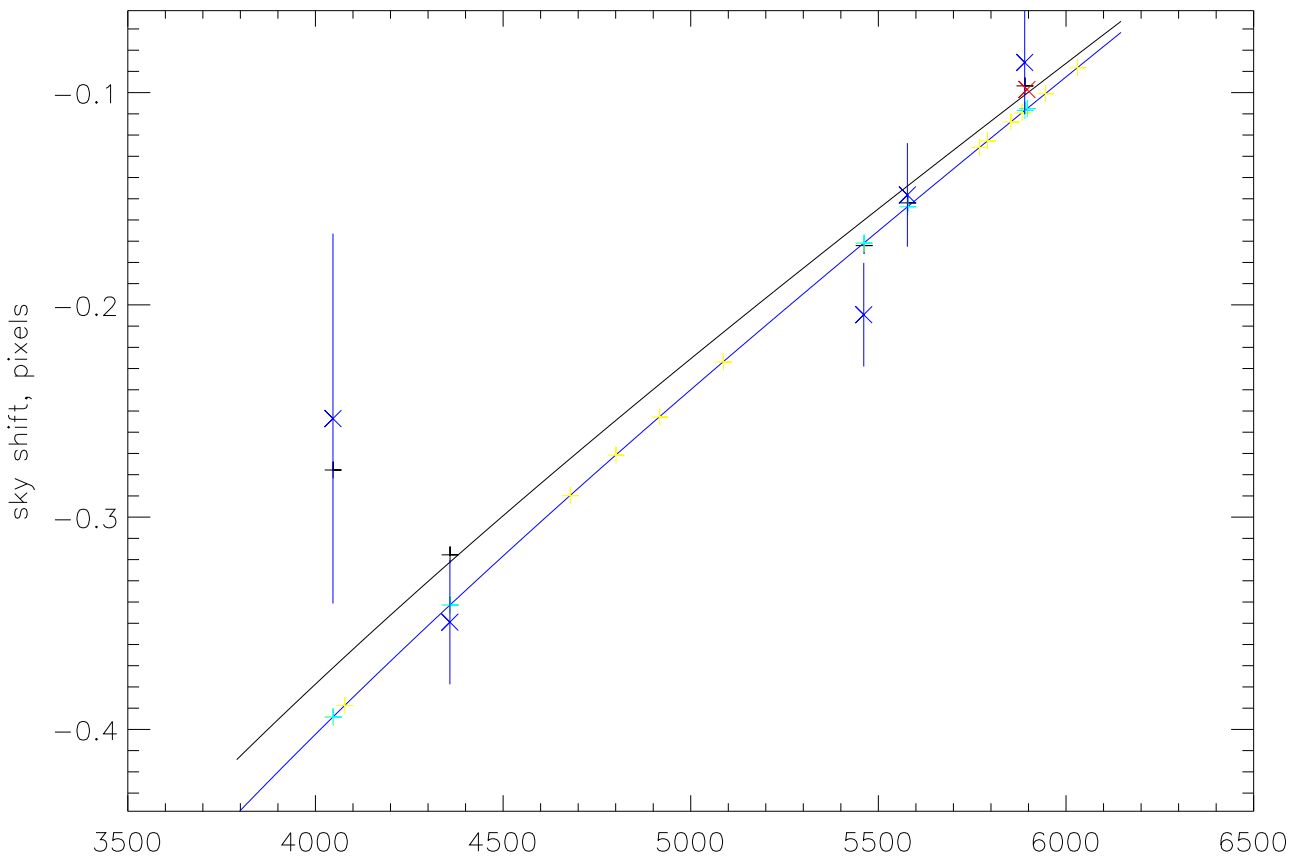

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

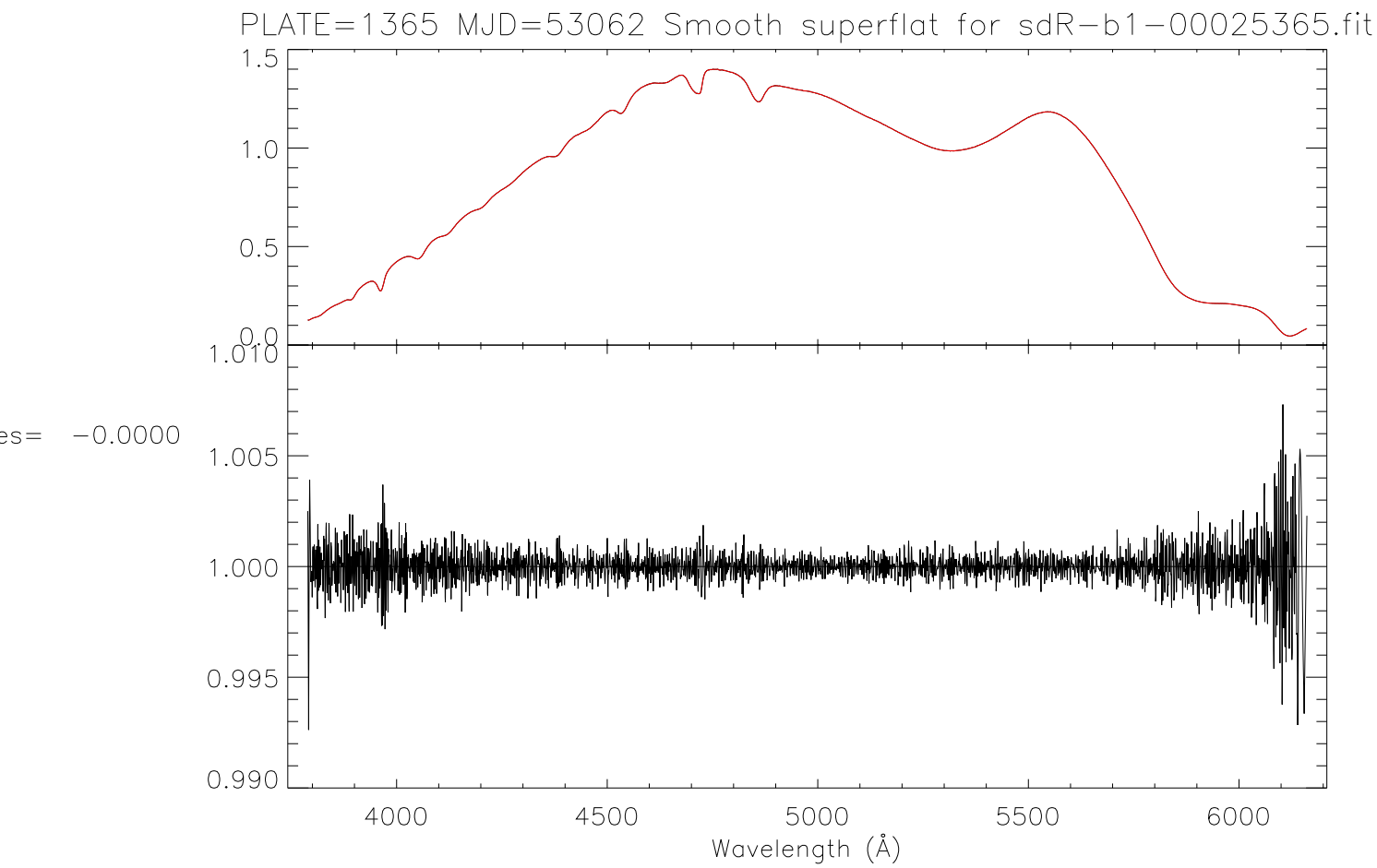

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

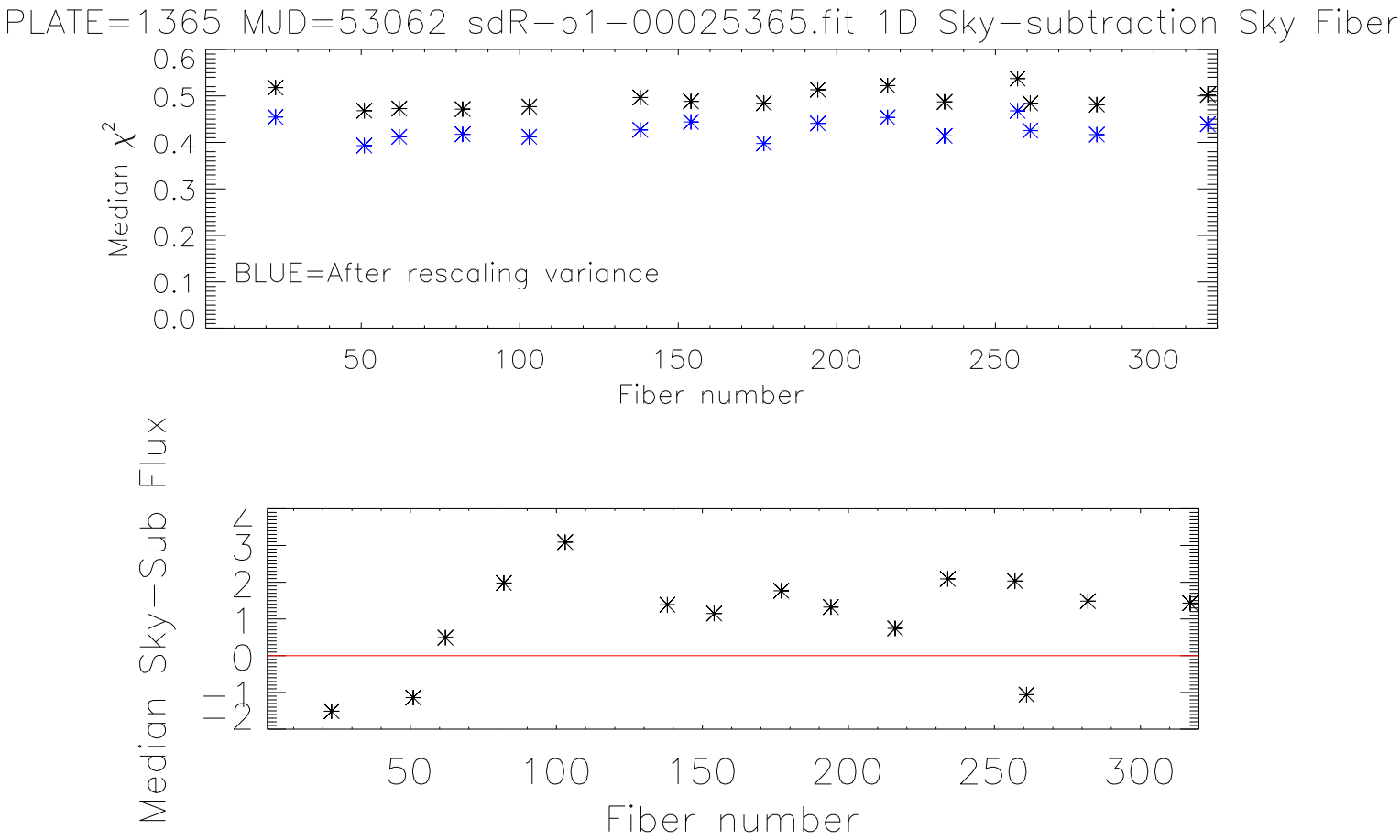

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

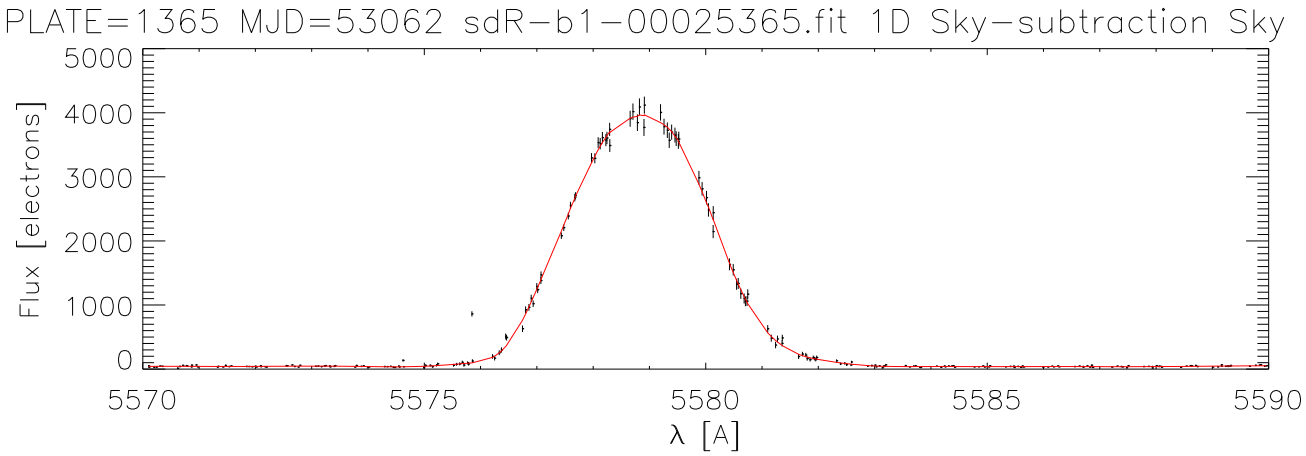

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

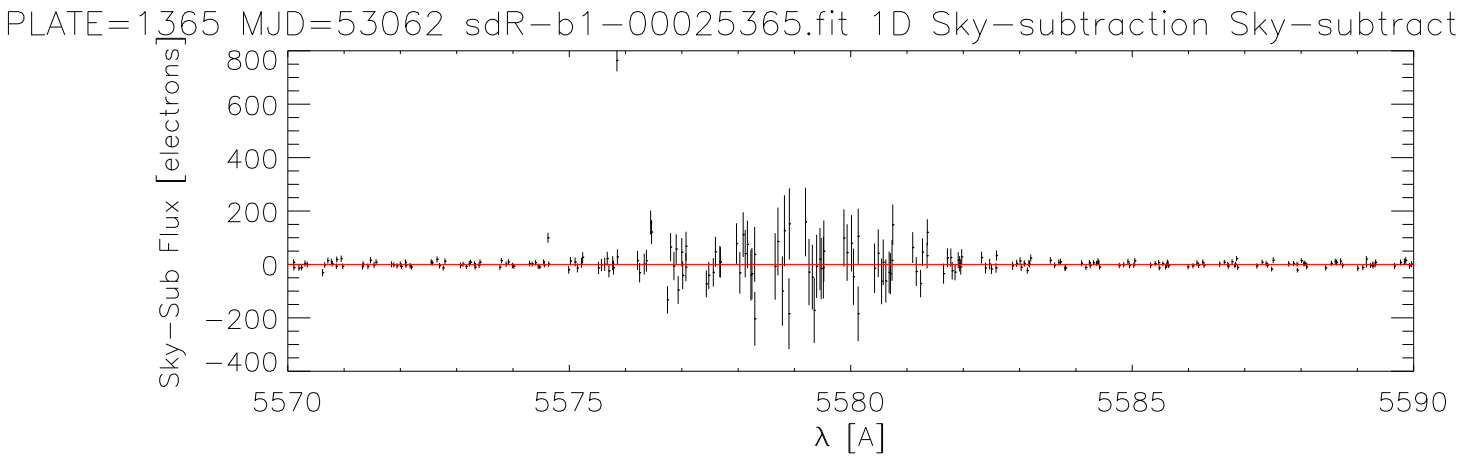

4046.5600
nfib1 15
nfib2 15
stdev 0.126
extra −0.25
4358.3300
nfib1 16
nfib2 16
stdev 0.095
extra −0.35
5460.9400
nfib1 16
nfib2 16
stdev 0.072
extra −0.20
5577.3390
nfib1 15
nfib2 16
stdev 0.015
extra −0.15
5889.9500
nfib1 16
nfib2 16
stdev 0.040
extra −0.09
5895.9240
nfib1 16
nfib2 16
stdev 0.039
extra −0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

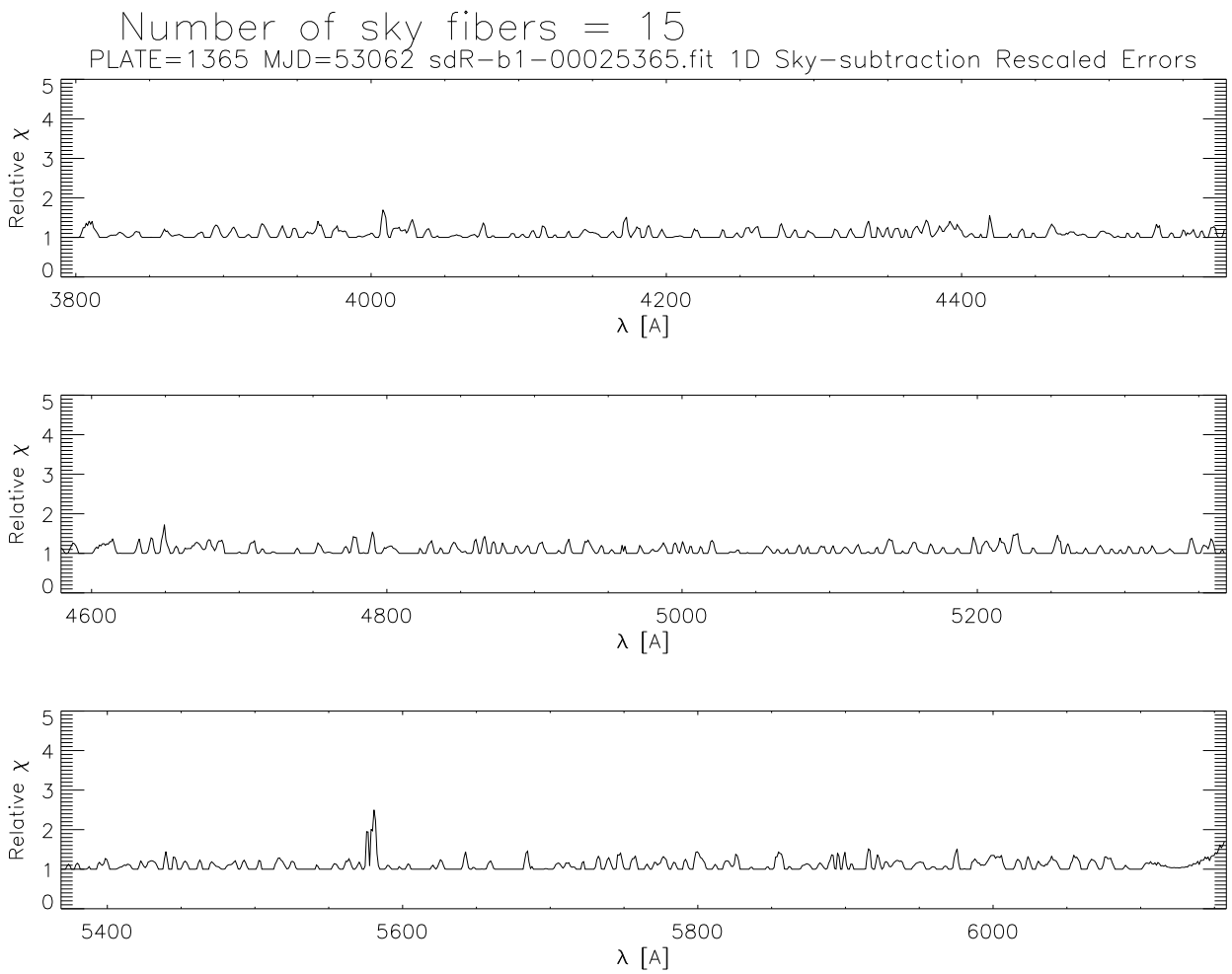

sky shift, pixels
−0.1
−0.2
−0.3
−0.4
3500
4000
4500
5000
5500
6000
6500

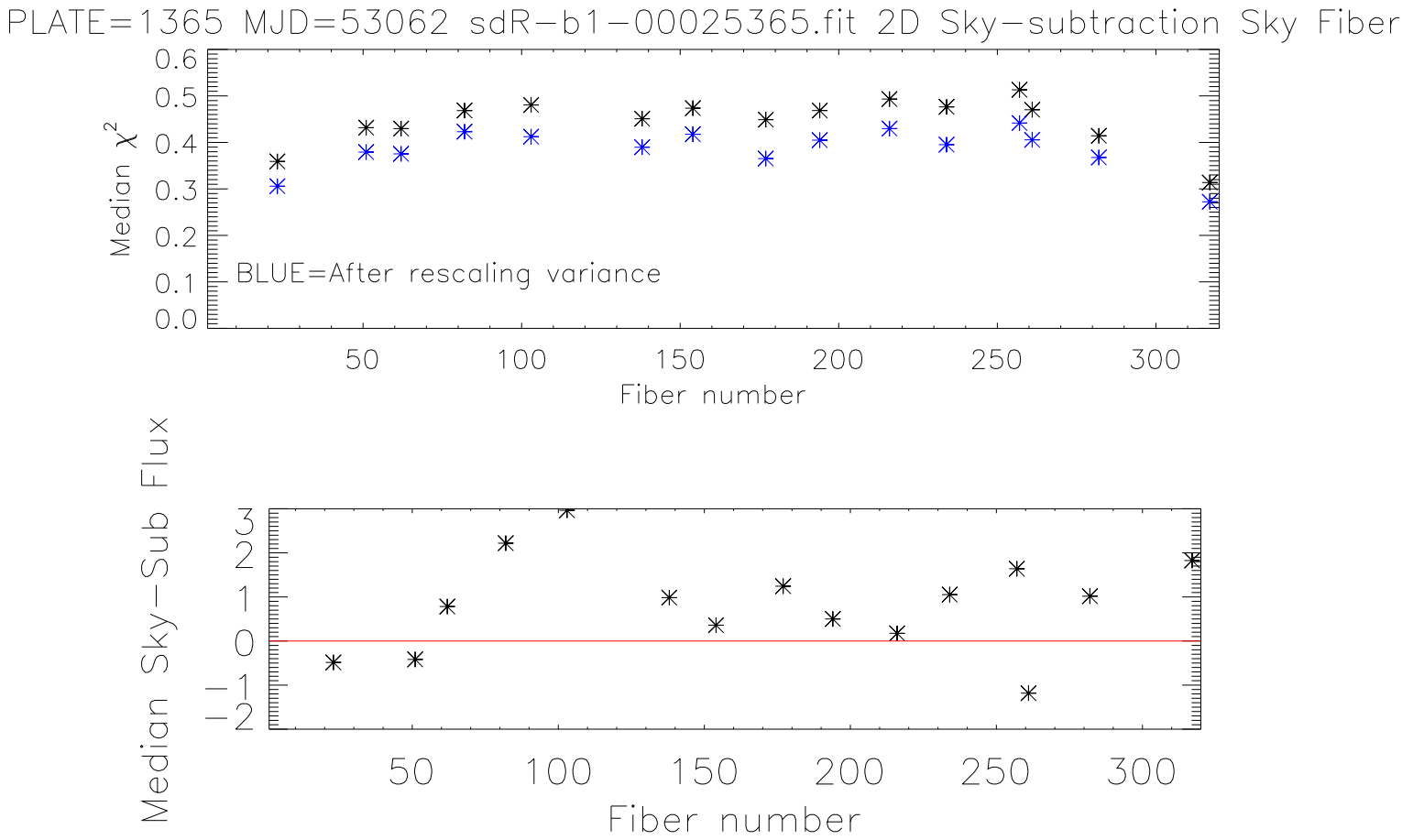

PLATE=1365 MJD=53062 Smooth superflat for sdR-b1-00025365.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

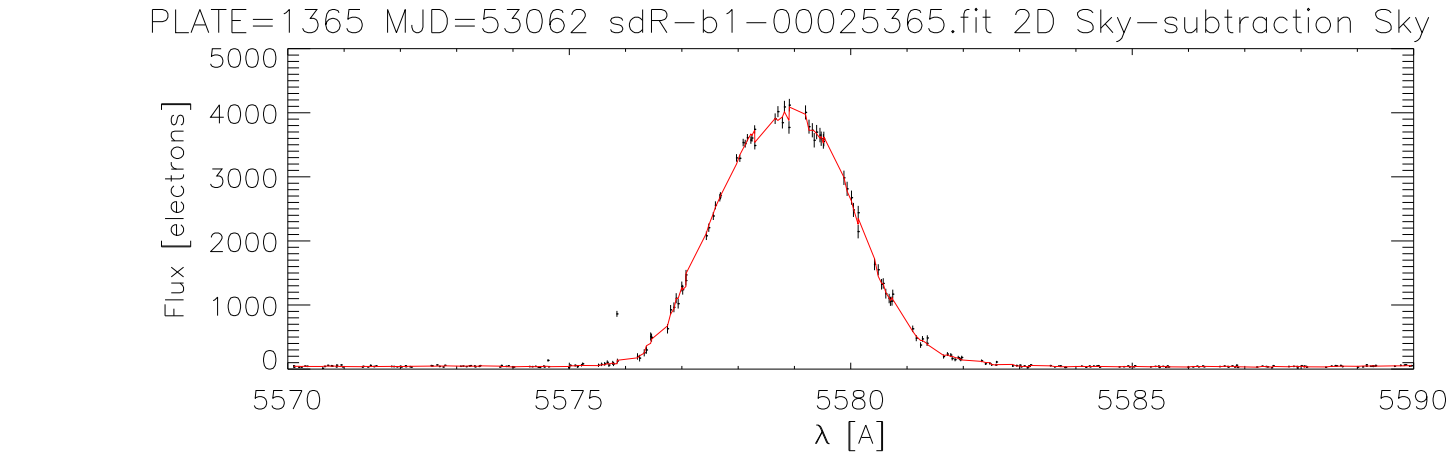

PLATE=1365 MJD=53062 sdR-b1-00025365.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

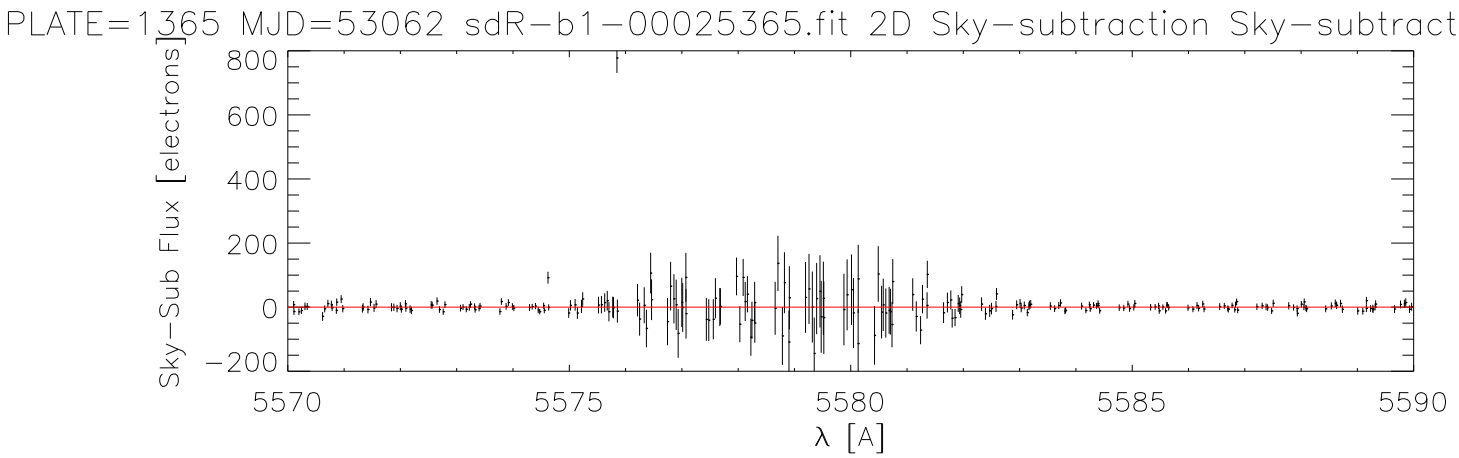

PLATE=1365 MJD=53062 sdR-b1-00025365.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

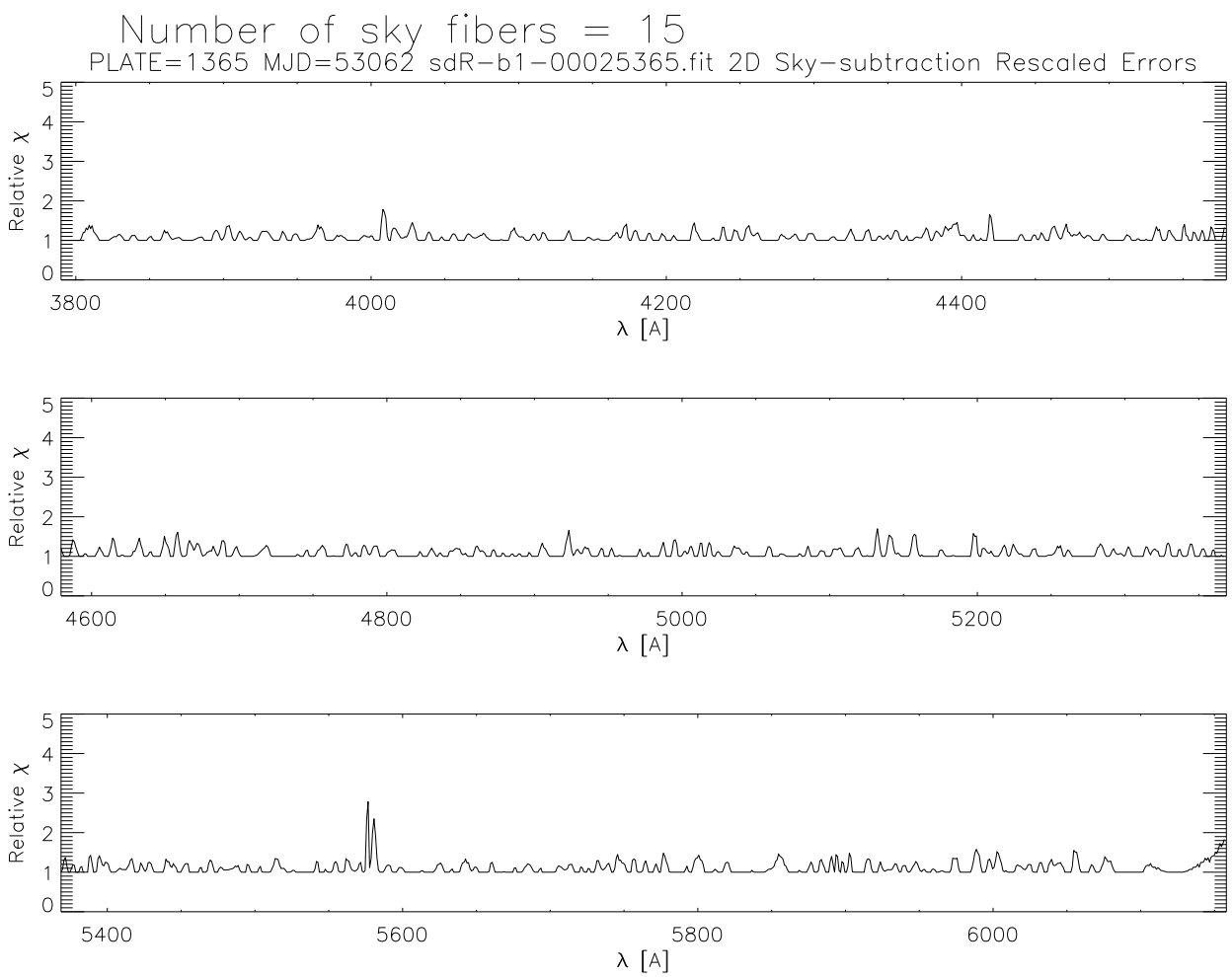

PLATE=1365 MJD=53062 sdR-b1-00025365.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

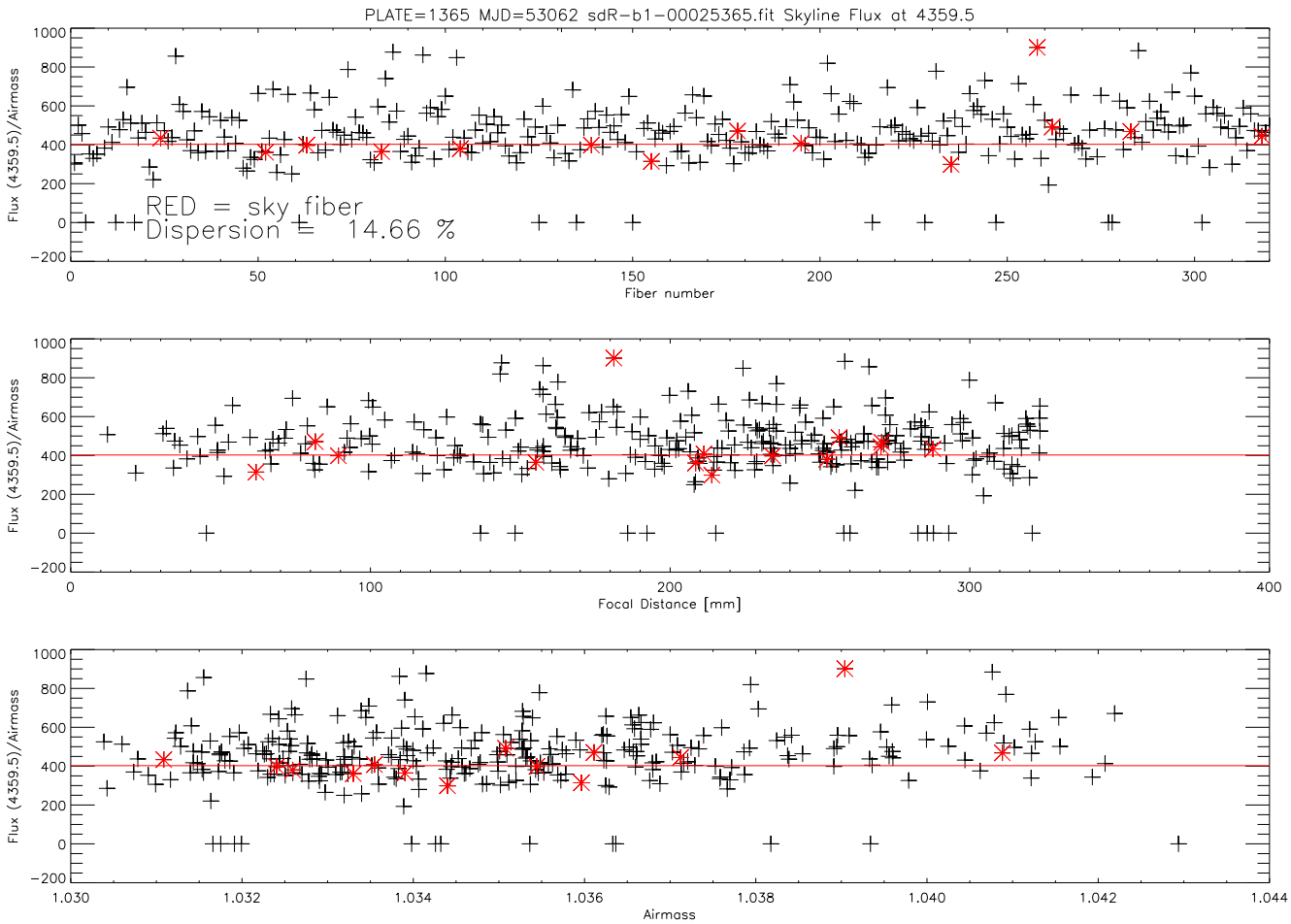

Number of sky fibers = 15
PLATE=1365 MJD=53062 sdR-b1-00025365.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

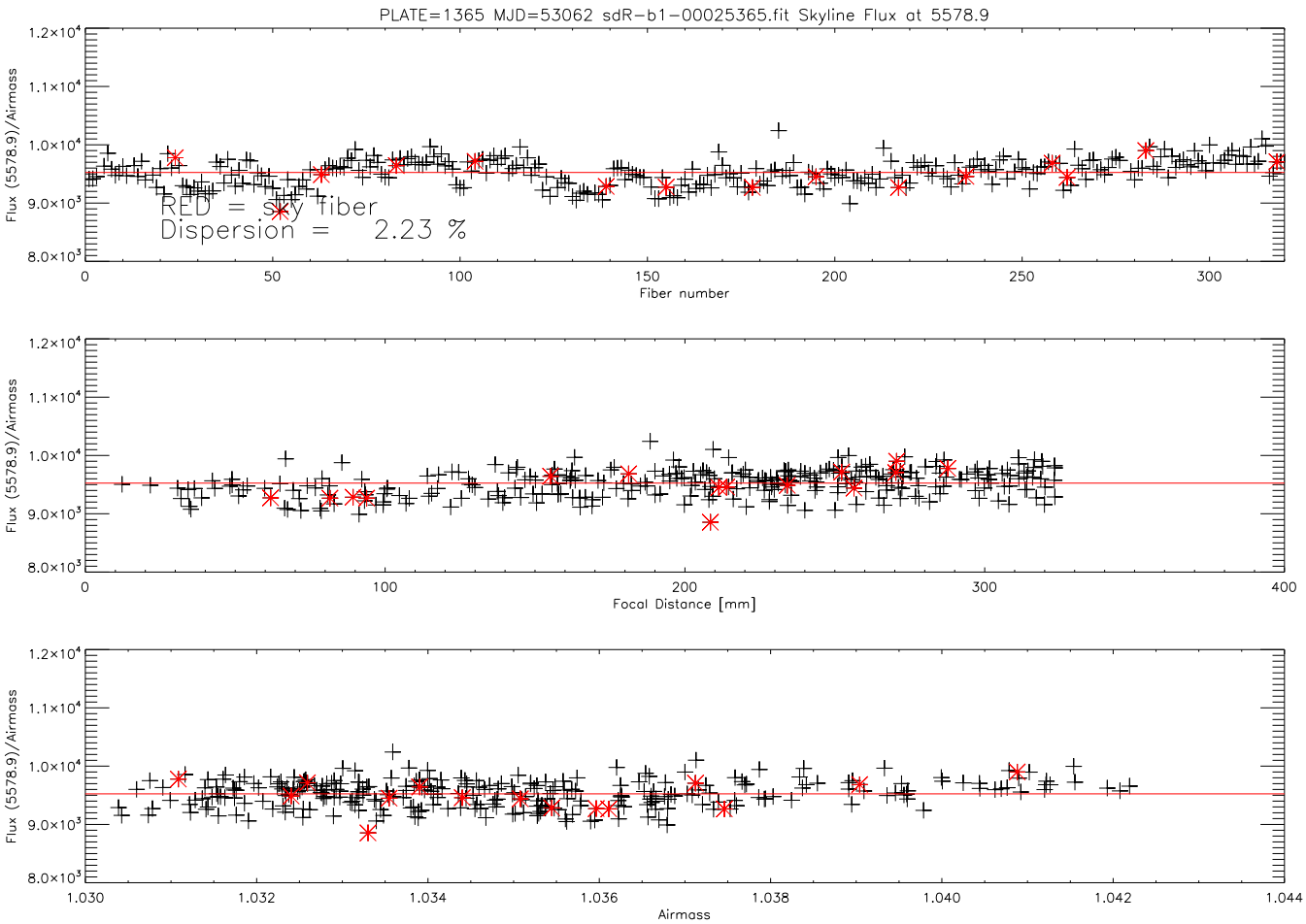

PLATE=1365 MJD=53062 sdR-b1-00025365.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

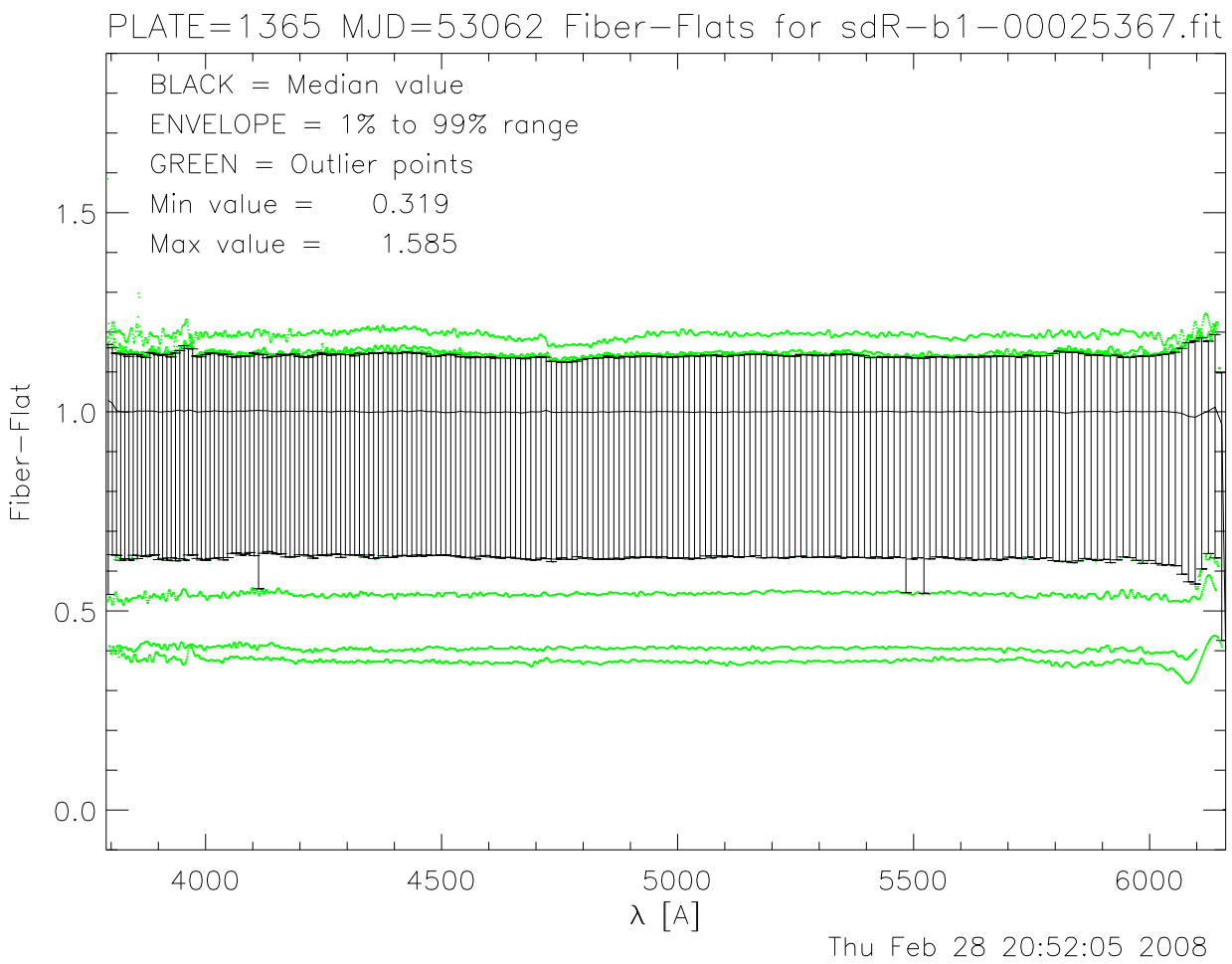

PLATE=1365 MJD=53062 sdR-b1-00025365.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

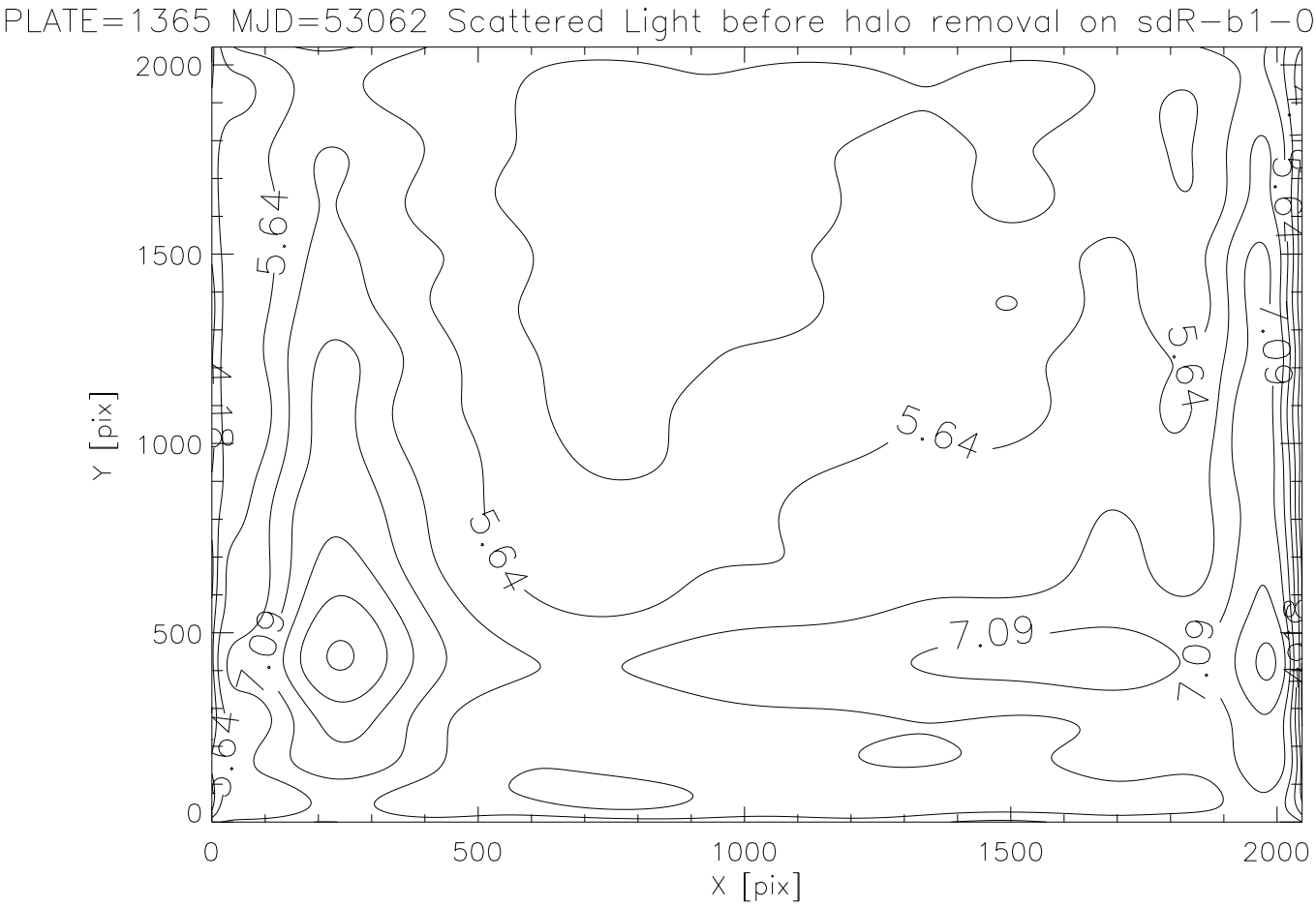

PLATE=1365 MJD=53062 sdR-b1-00025365.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

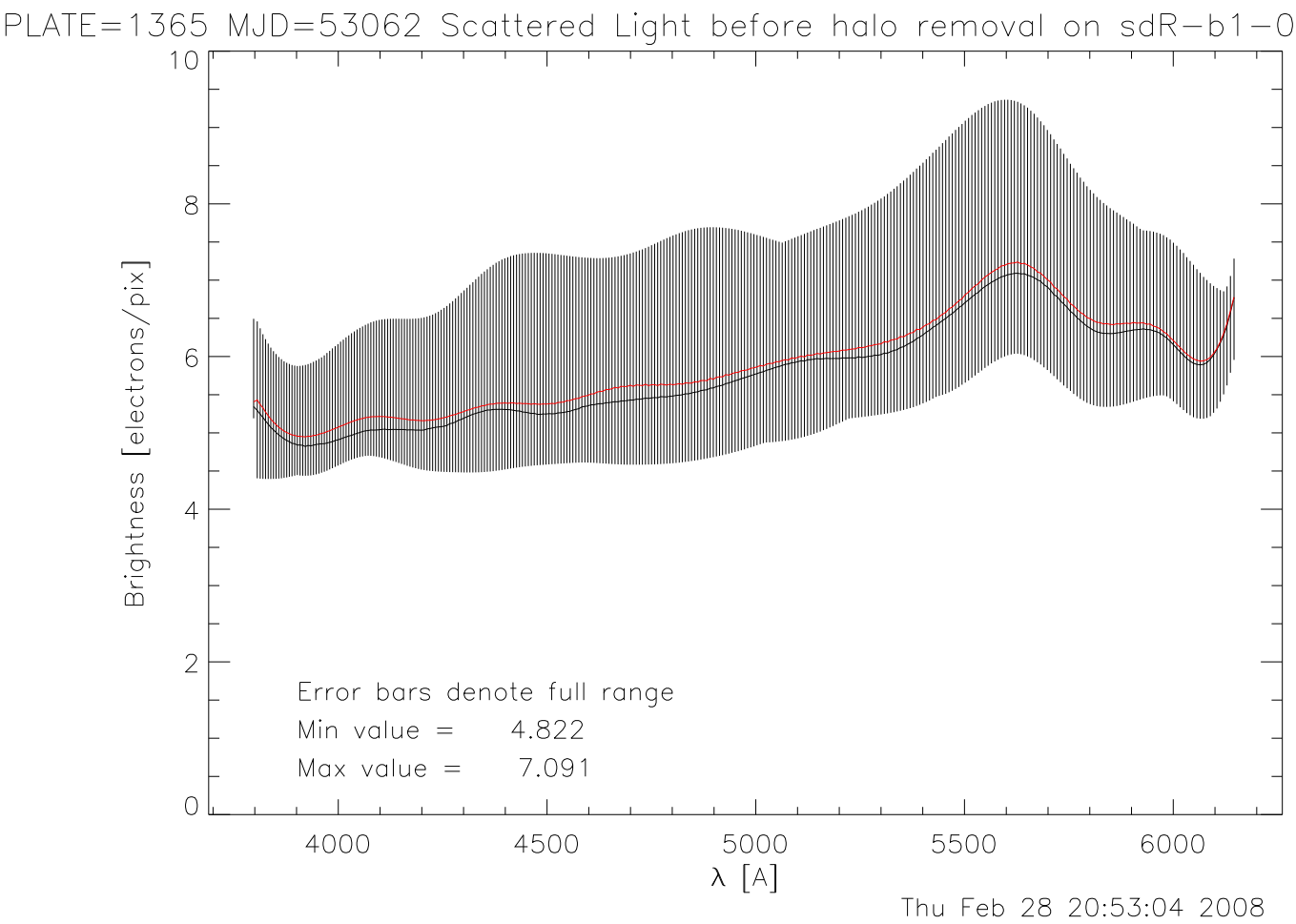

Number of sky fibers = 15
PLATE=1365 MJD=53062 sdR-b1-00025365.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

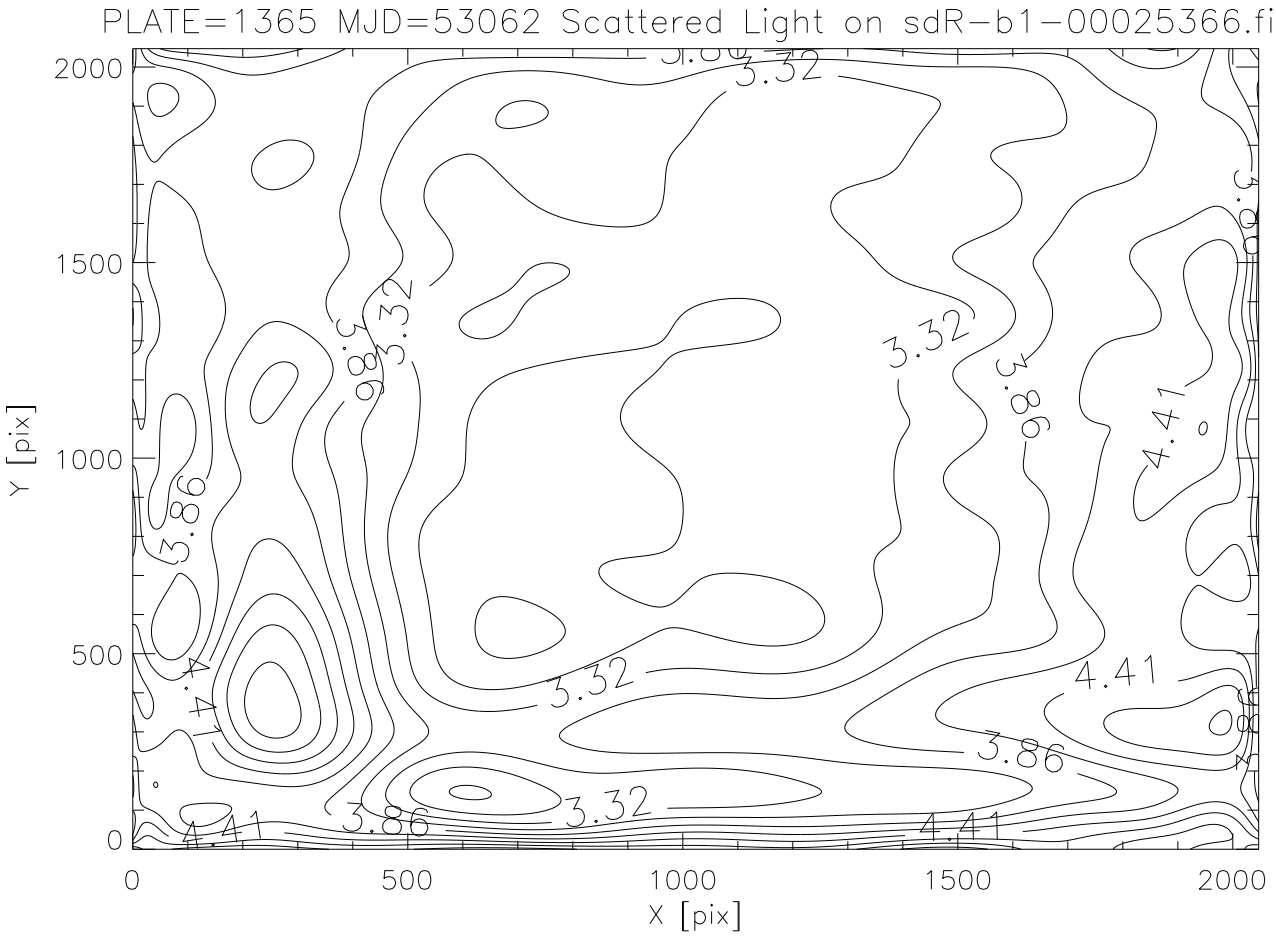

PLATE=1365 MJD=53062 sdR-b1-00025365.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.66 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

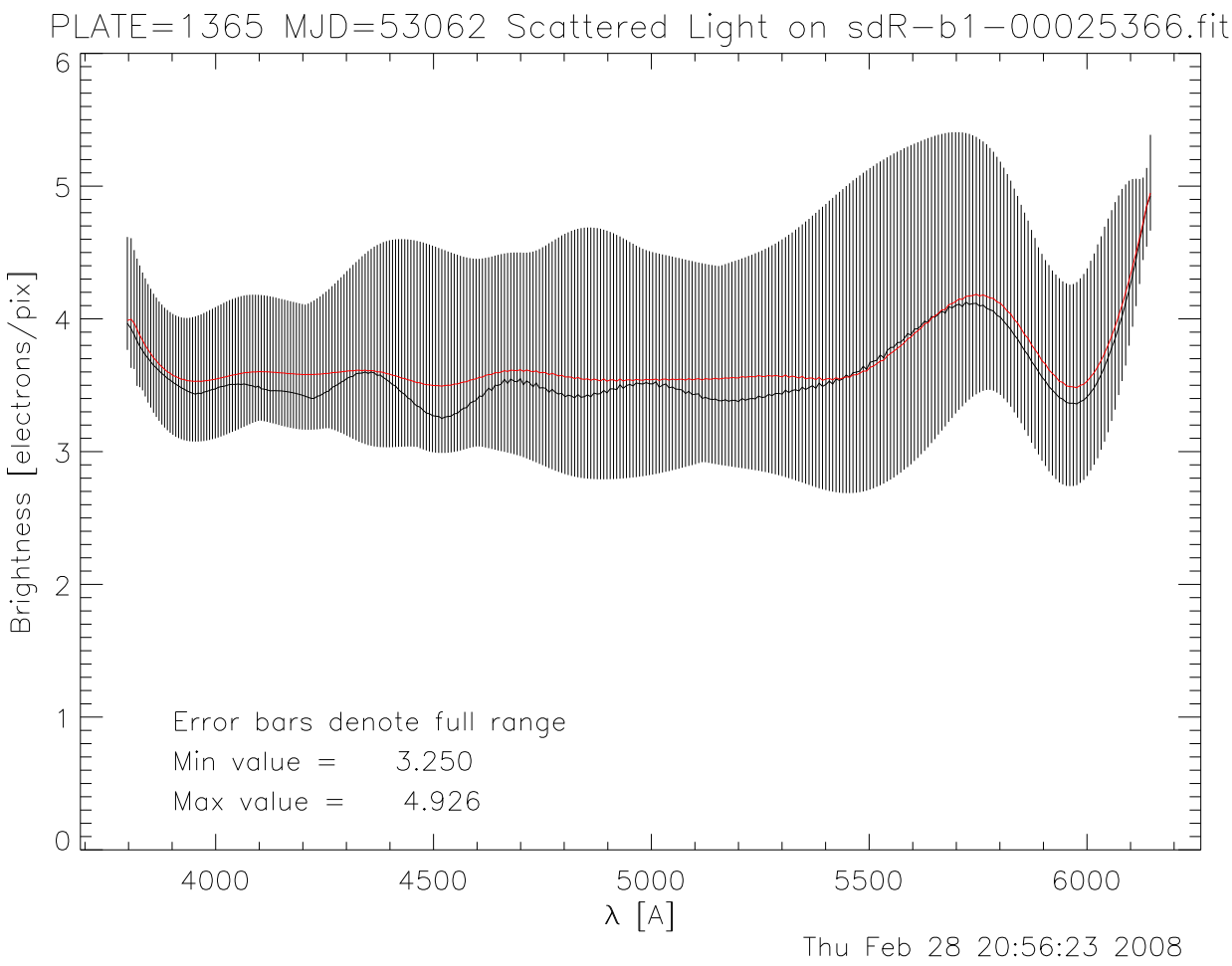

PLATE=1365 MJD=53062 sdR-b1-00025365.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.23 %
Fiber number
Focal Distance [mm]
Airmass

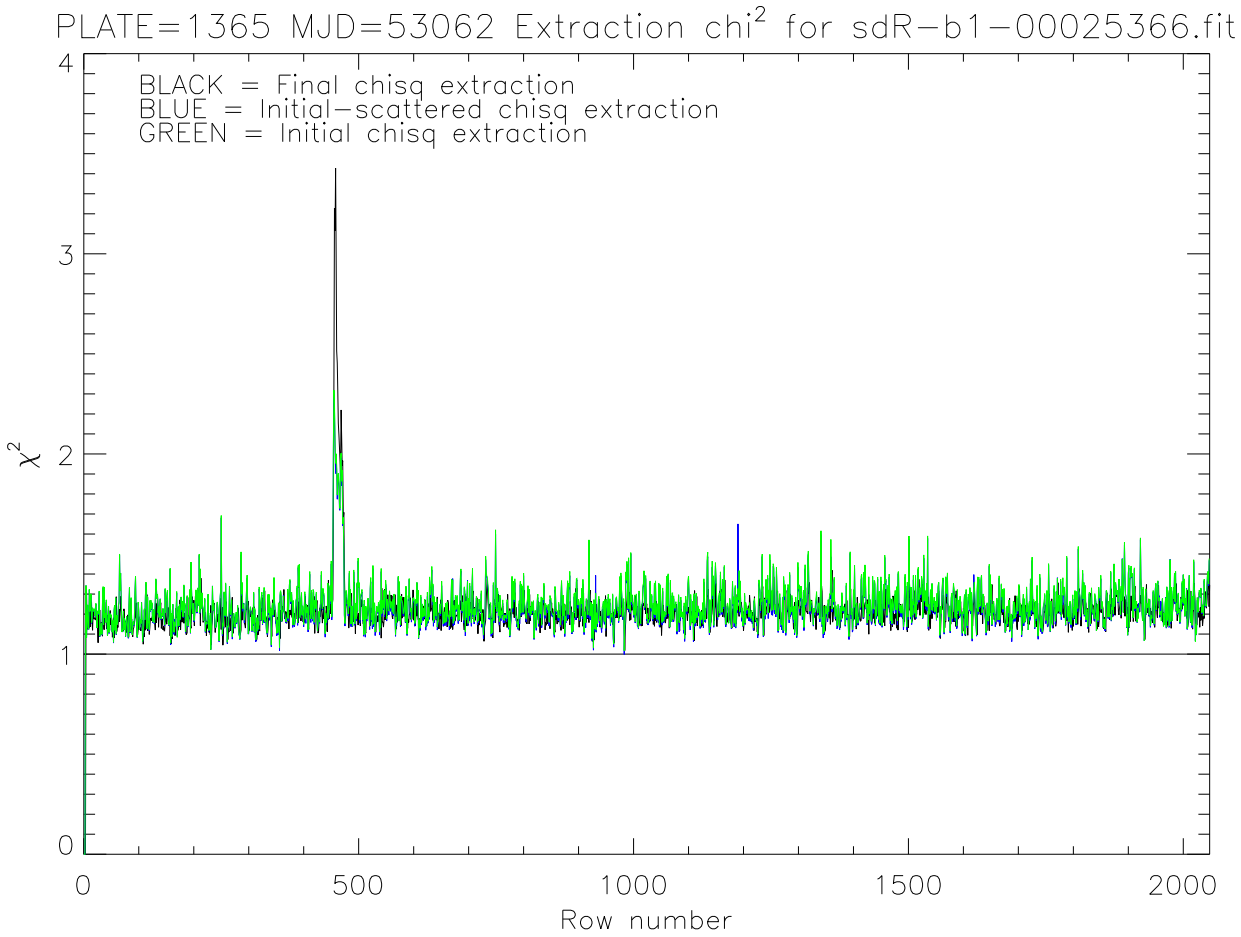

PLATE=1365 MJD=53062 Fiber−Flats for sdR−b1−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.319
Max value = 1.585
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 20:52:05 2008

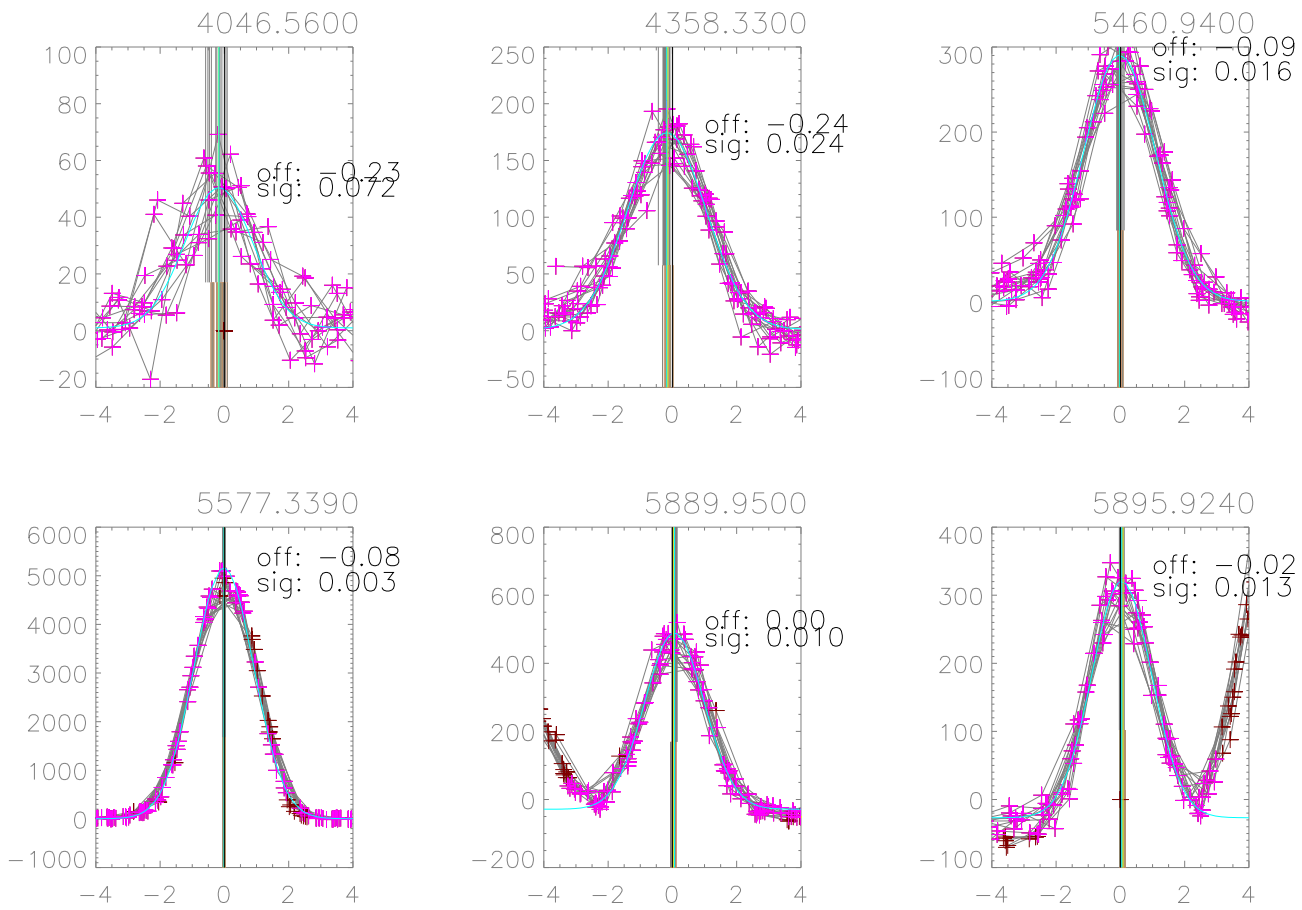

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b1-00025366.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.64
7.09
0

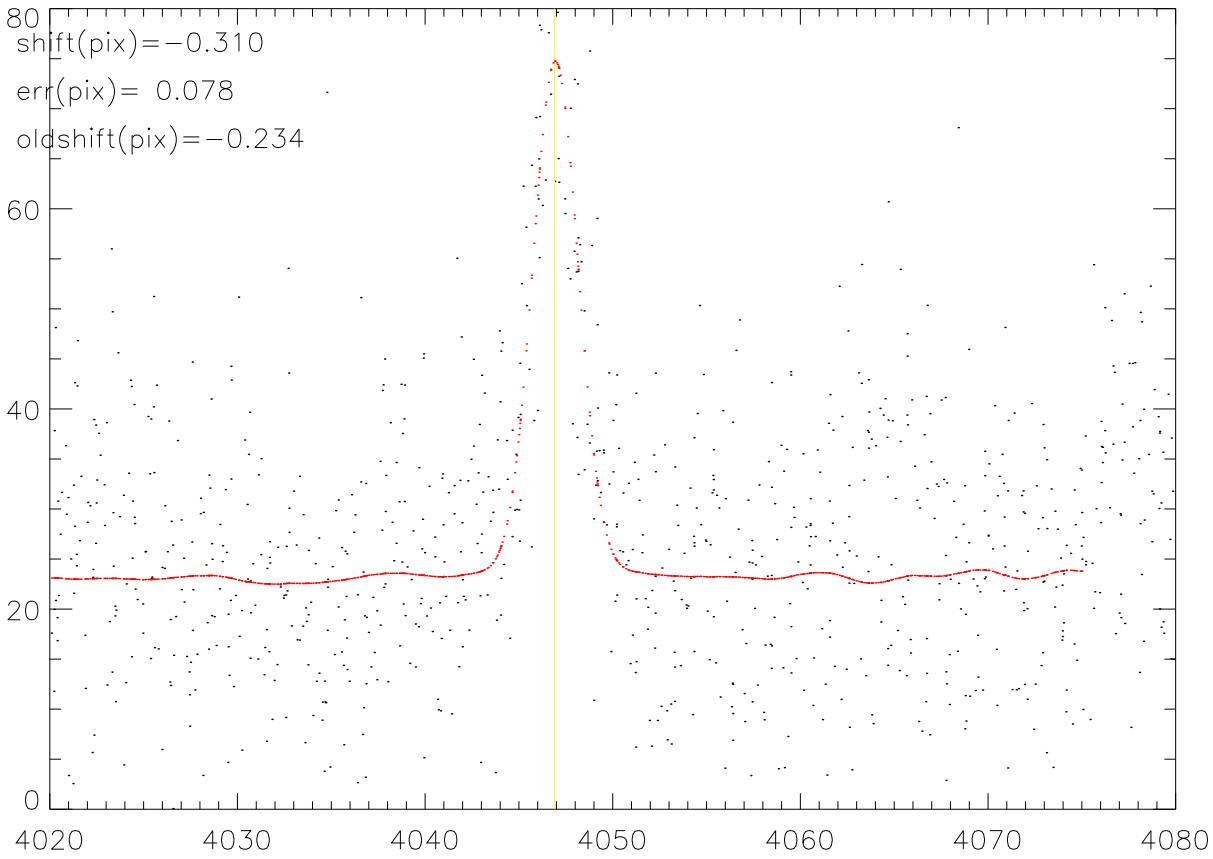

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b1-00025366.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.822
Max value = 7.091
Thu Feb 28 20:53:04 2008

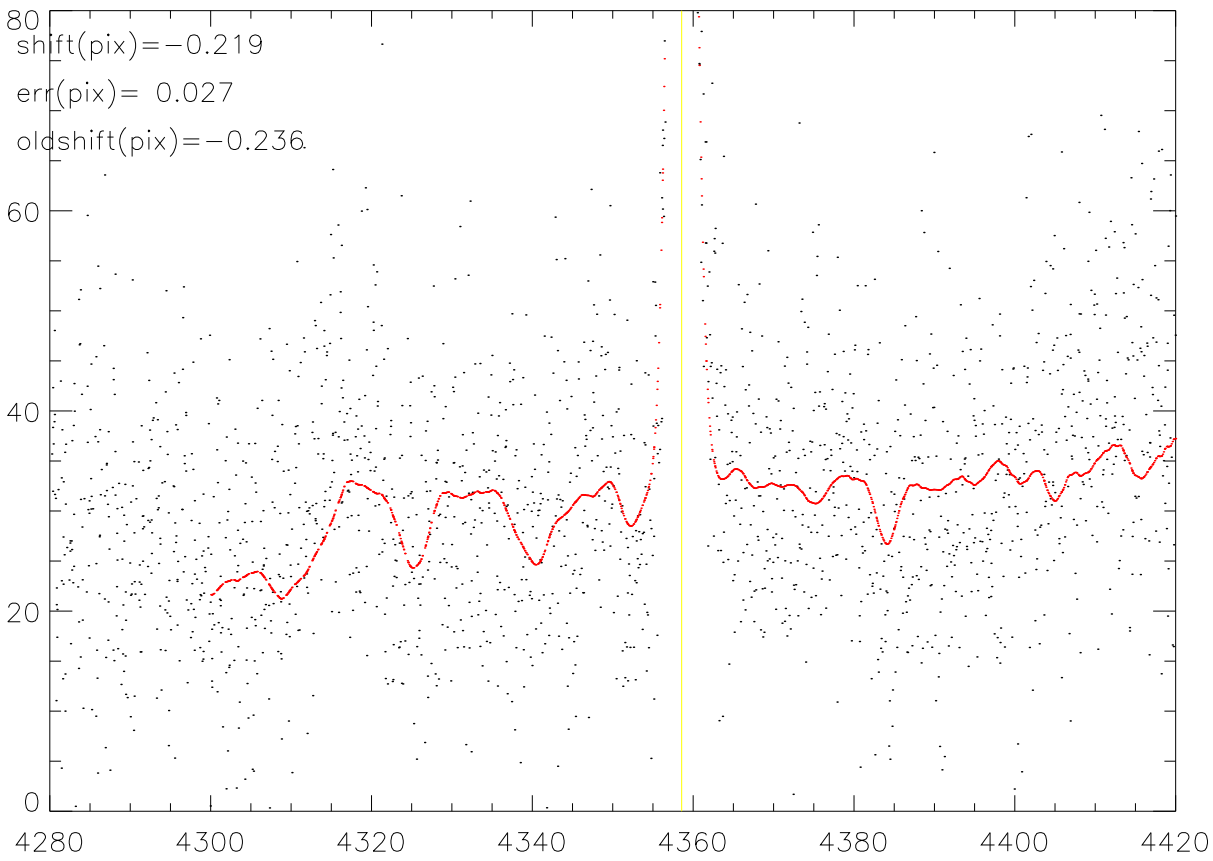

PLATE=1365 MJD=53062 Scattered Light on sdR-b1-00025366.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.32
3.86
4.41

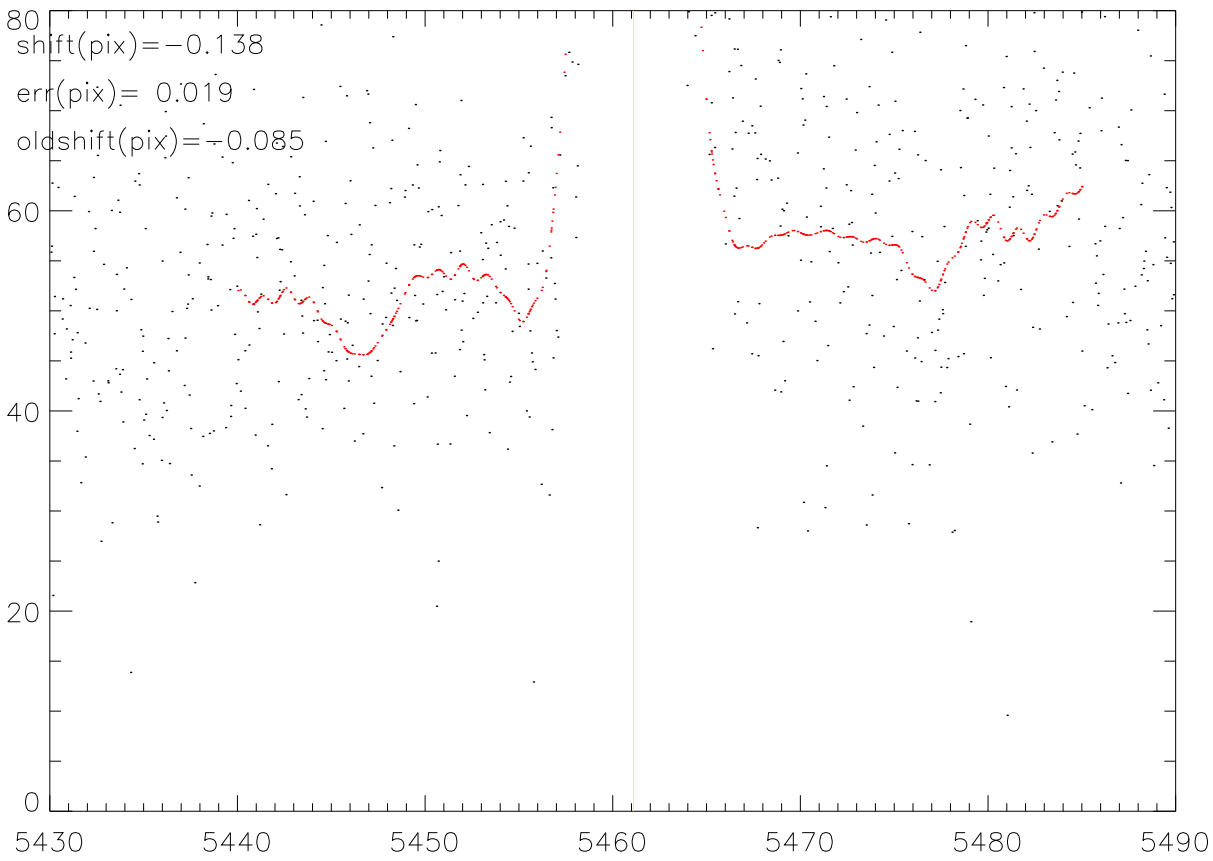

PLATE=1365 MJD=53062 Scattered Light on sdR-b1-00025366.fit
Brightness [electrons/pix]
0
1
2
3
4
5
6
Error bars denote full range
Min value = 3.250
Max value = 4.926
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 20:56:23 2008

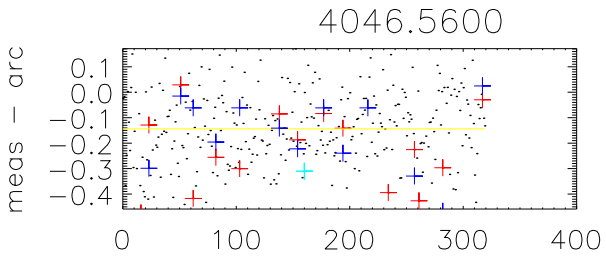

PLATE=1365 MJD=53062 Extraction chi^2 for sdR-b1-00025366.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

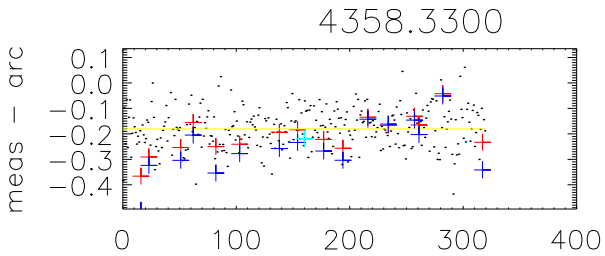

4046.5600
off: −0.23
sig: 0.072
4358.3300
off: −0.24
sig: 0.024
5460.9400
off: −0.09
sig: 0.016
5577.3390
off: −0.08
sig: 0.003
5889.9500
off: 0.00
sig: 0.010
5895.9240
off: −0.02
sig: 0.013

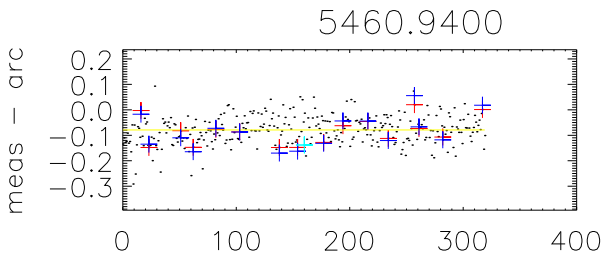

shift(pix)=−0.310
err(pix)= 0.078
oldshift(pix)=−0.234
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

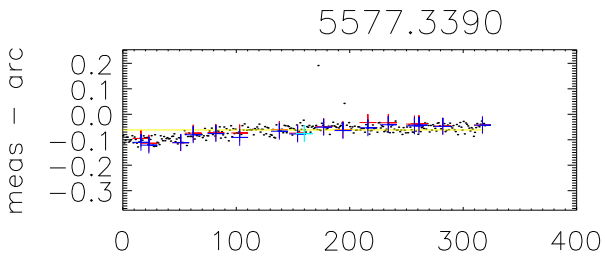

shift(pix)=−0.219
err(pix)= 0.027
oldshift(pix)=−0.236
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

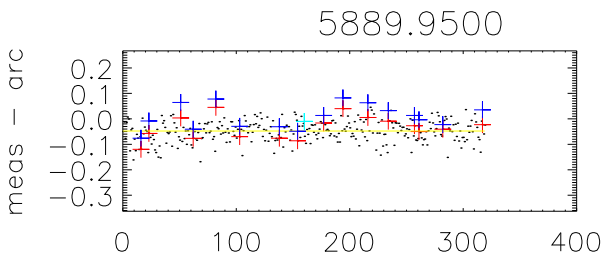

shift(pix)=−0.138
err(pix)= 0.019
oldshift(pix)=−0.085
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

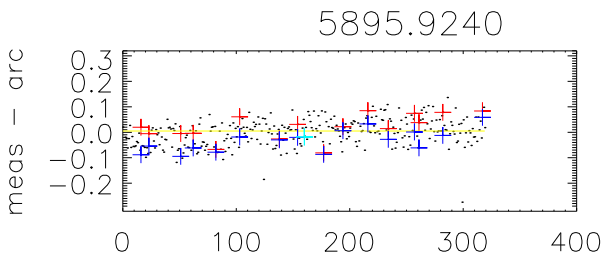

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

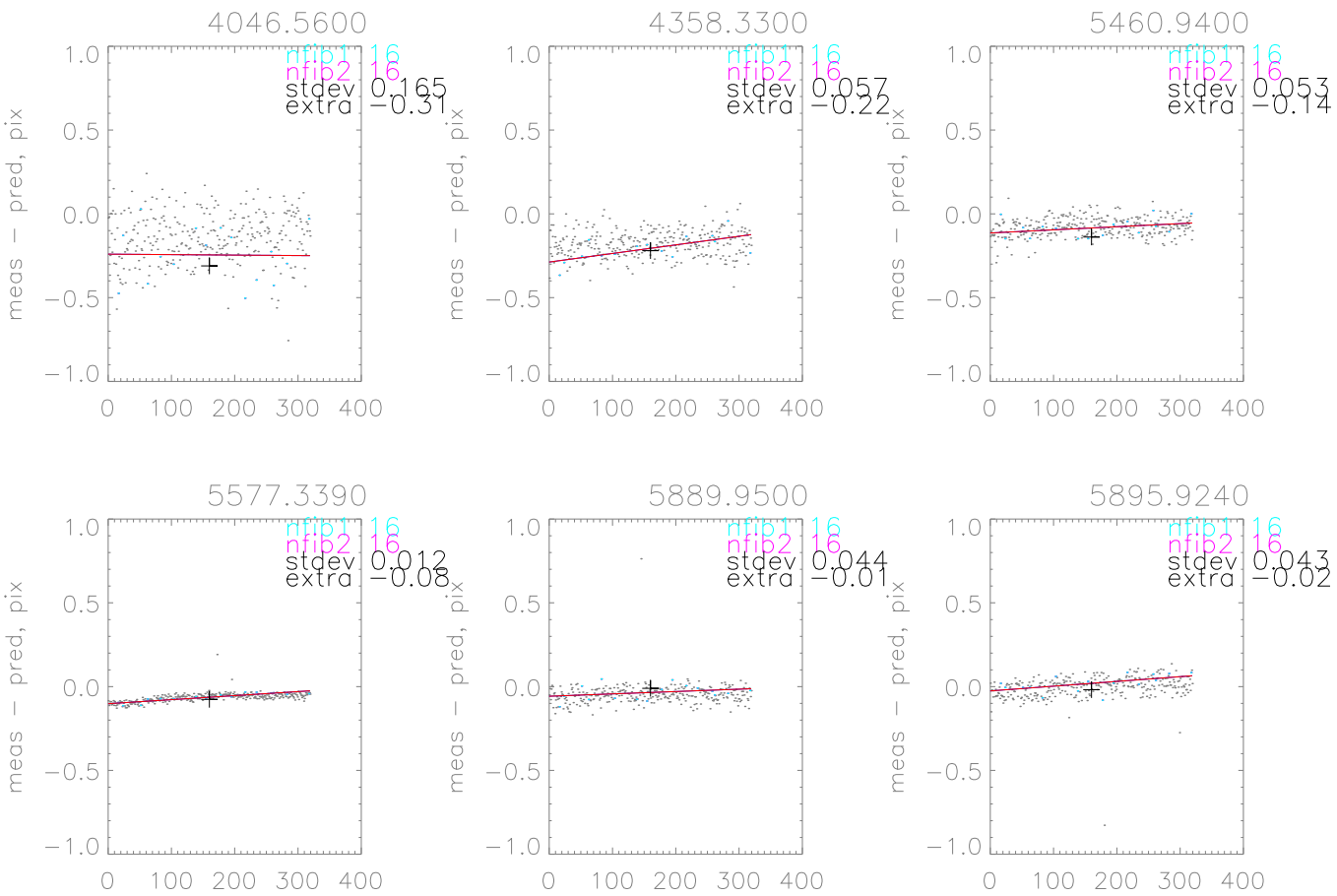

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

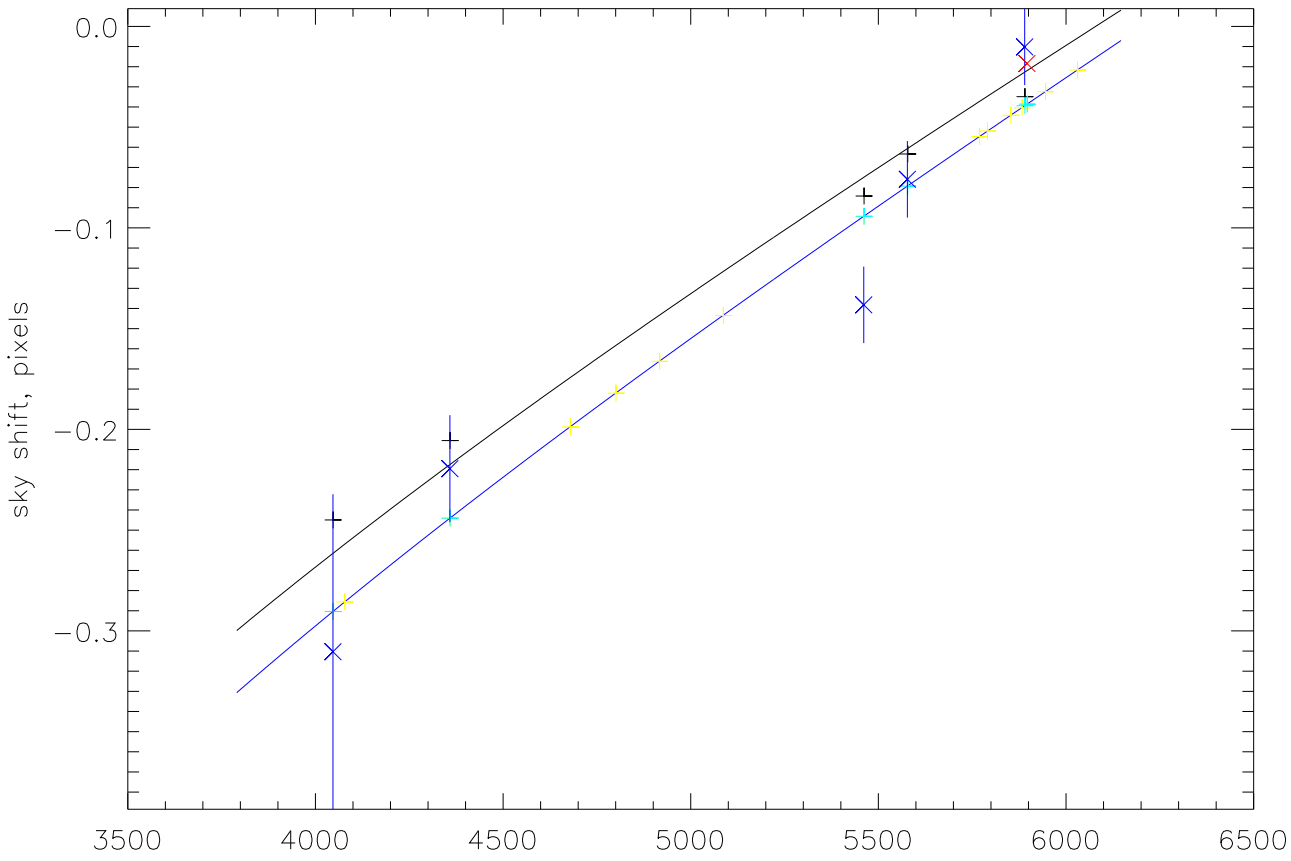

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

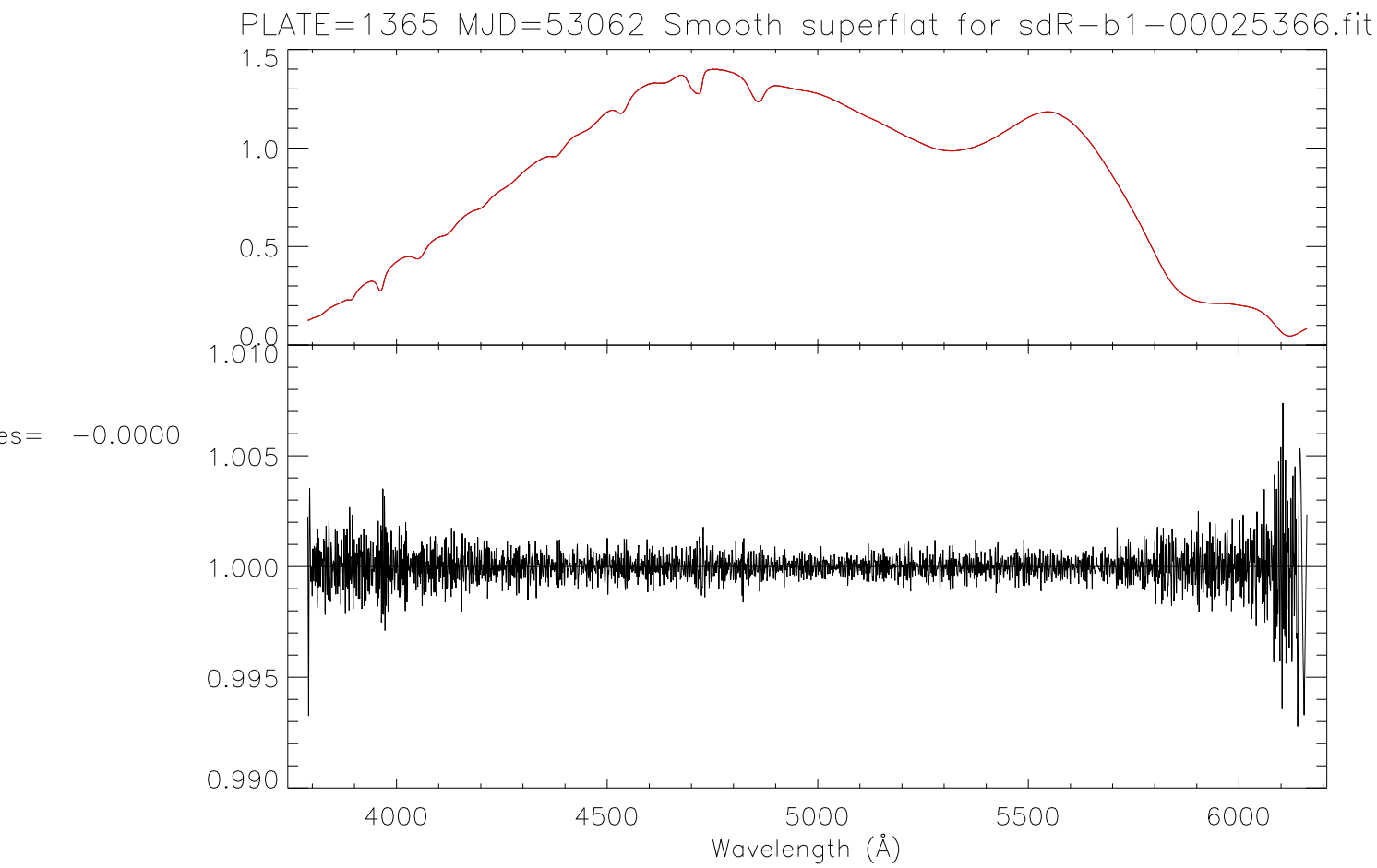

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

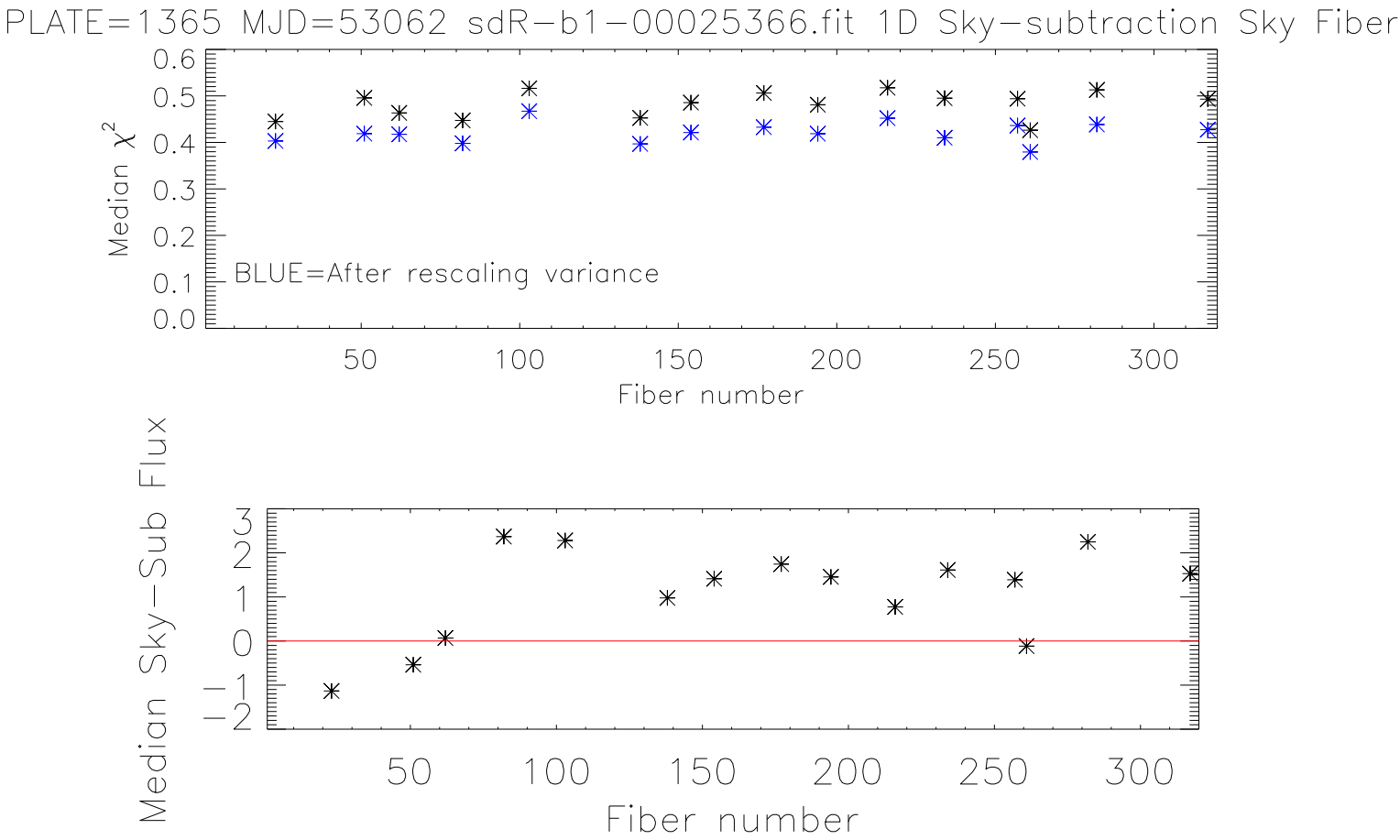

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

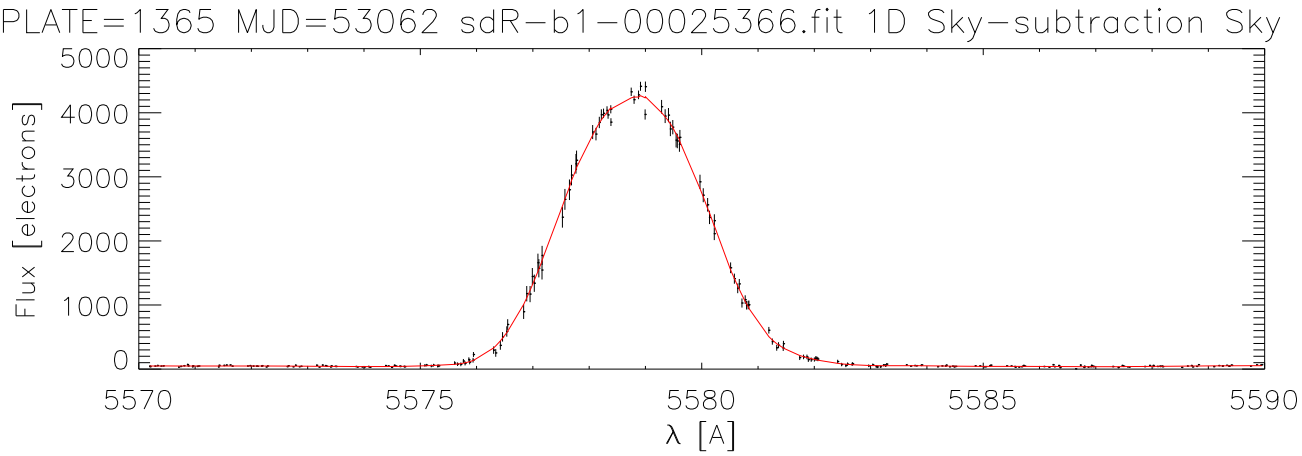

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

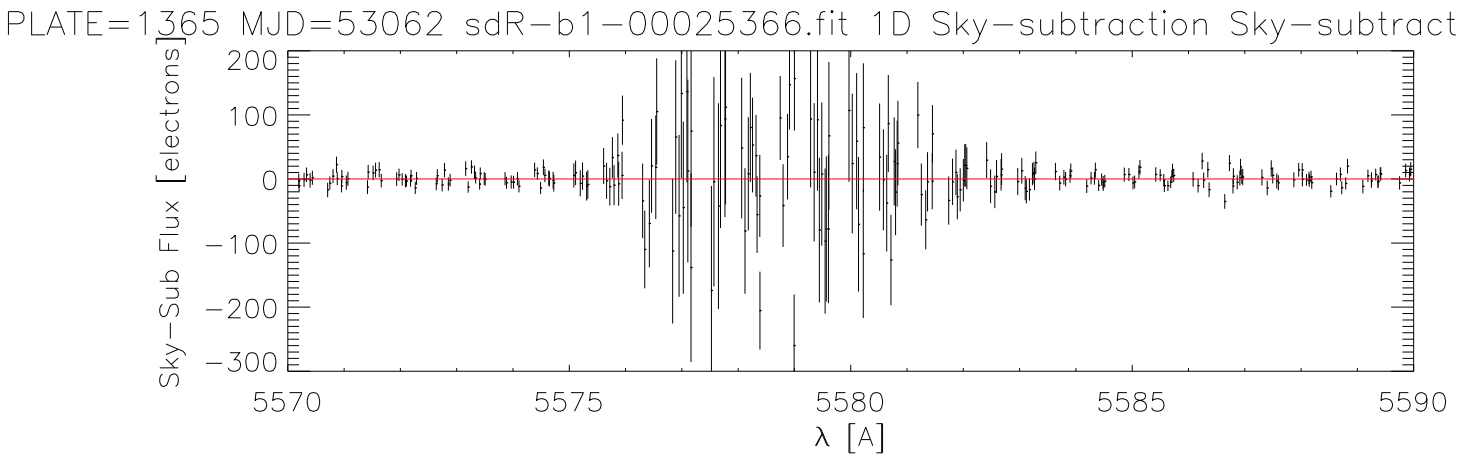

4046.5600
nfib1 16
nfib2 16
stdev 0.165
extra −0.31
4358.3300
nfib1 16
nfib2 16
stdev 0.057
extra −0.22
5460.9400
nfib1 16
nfib2 16
stdev 0.053
extra −0.14
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra −0.08
5889.9500
nfib1 16
nfib2 16
stdev 0.044
extra −0.01
5895.9240
nfib1 16
nfib2 16
stdev 0.043
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

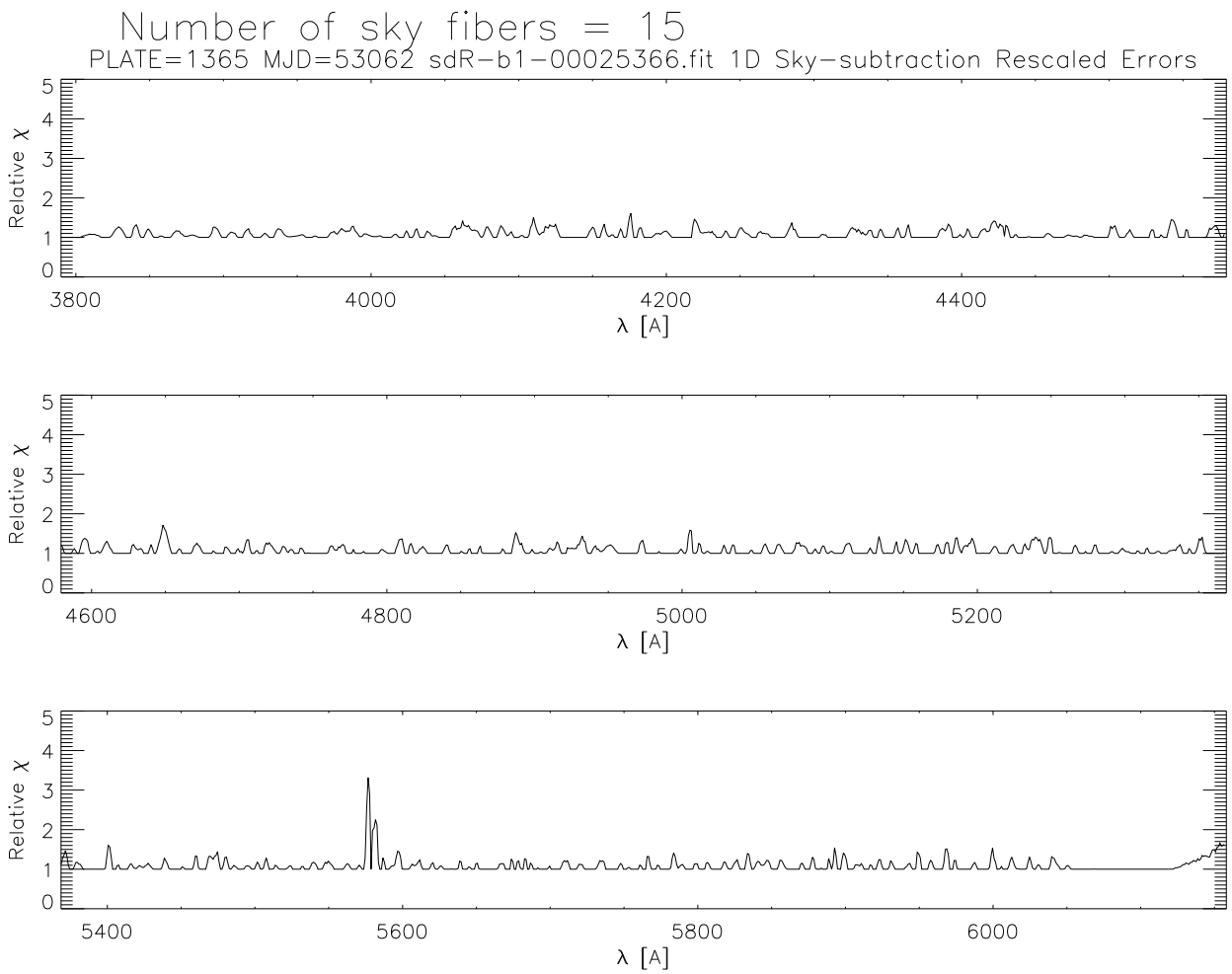

0.0
−0.1
−0.2
−0.3
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

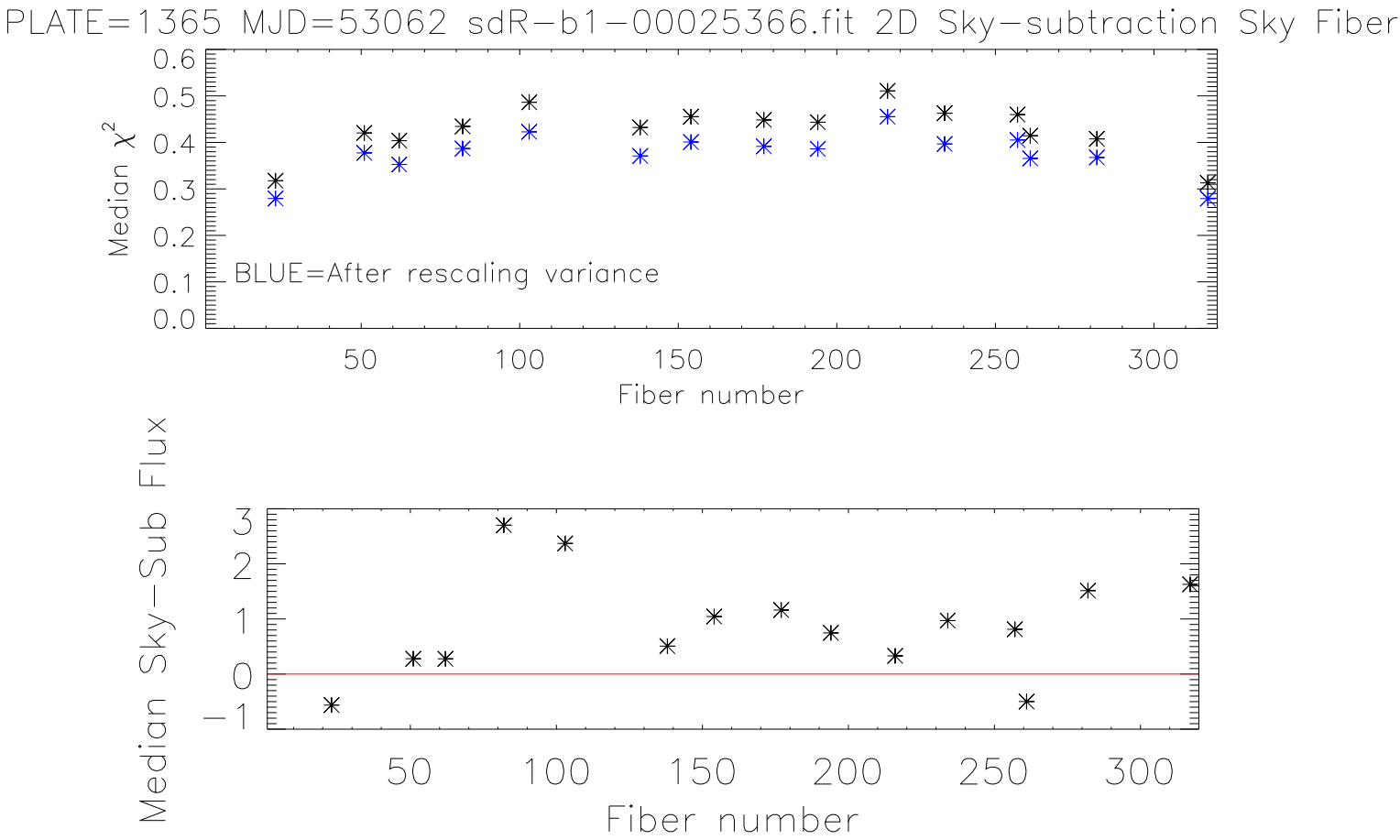

PLATE=1365 MJD=53062 Smooth superflat for sdR-b1-00025366.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

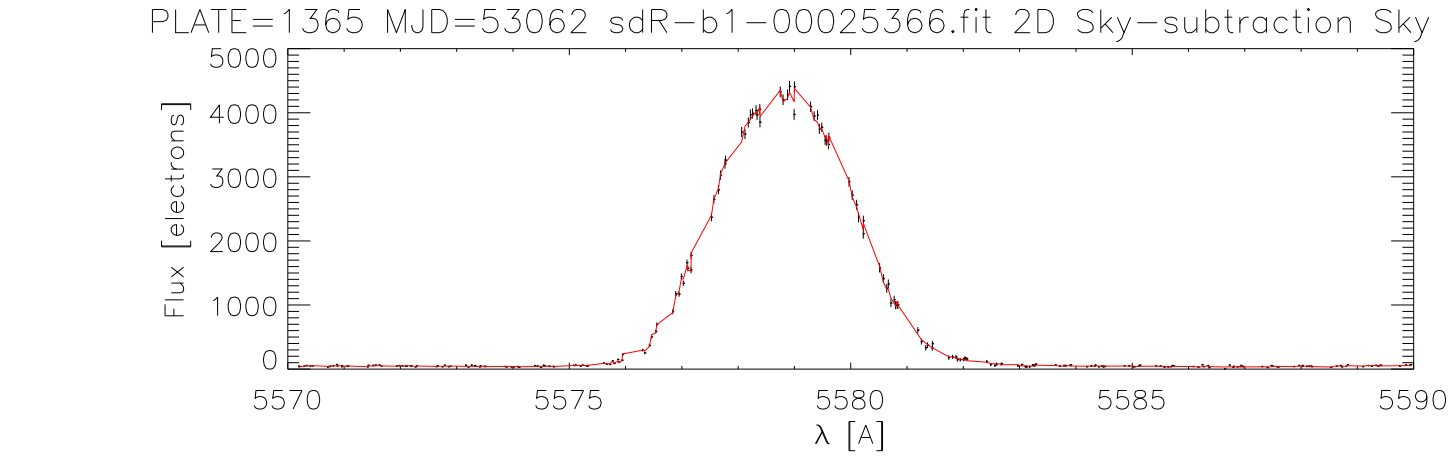

PLATE=1365 MJD=53062 sdR-b1-00025366.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

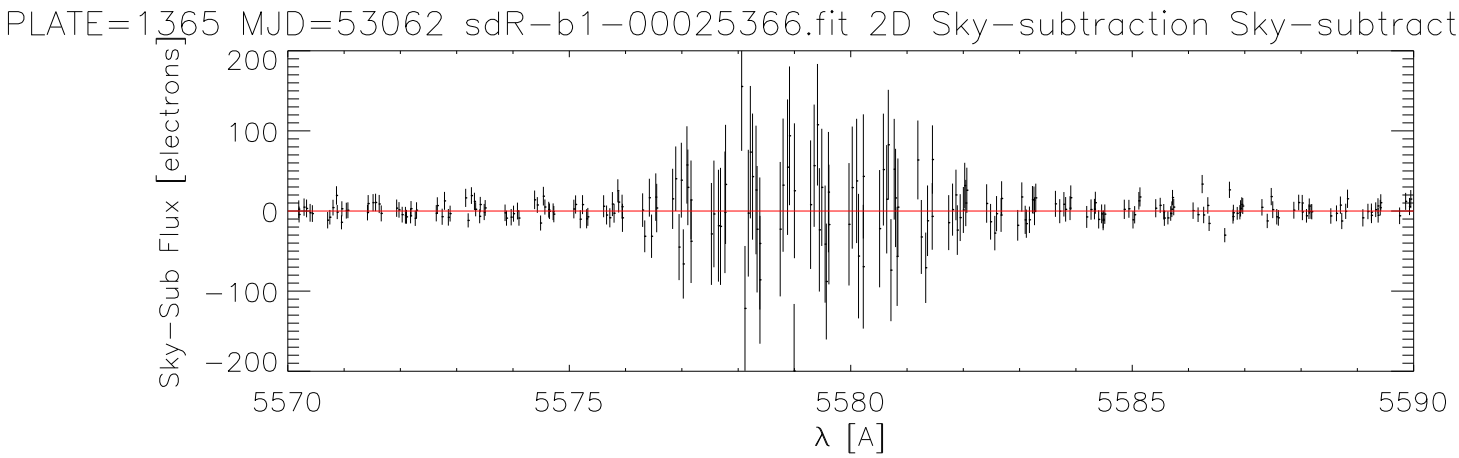

PLATE=1365 MJD=53062 sdR-b1-00025366.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

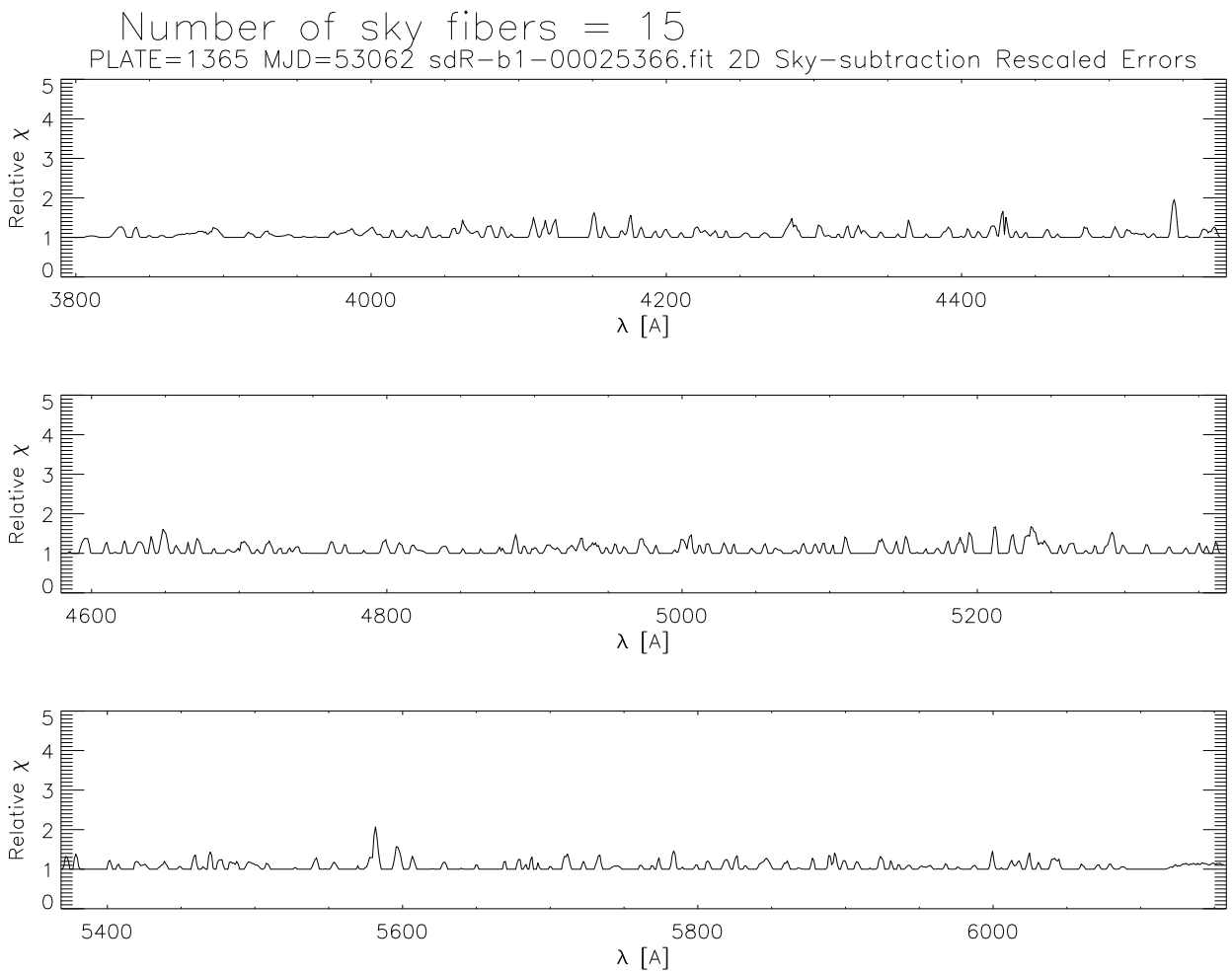

PLATE=1365 MJD=53062 sdR-b1-00025366.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

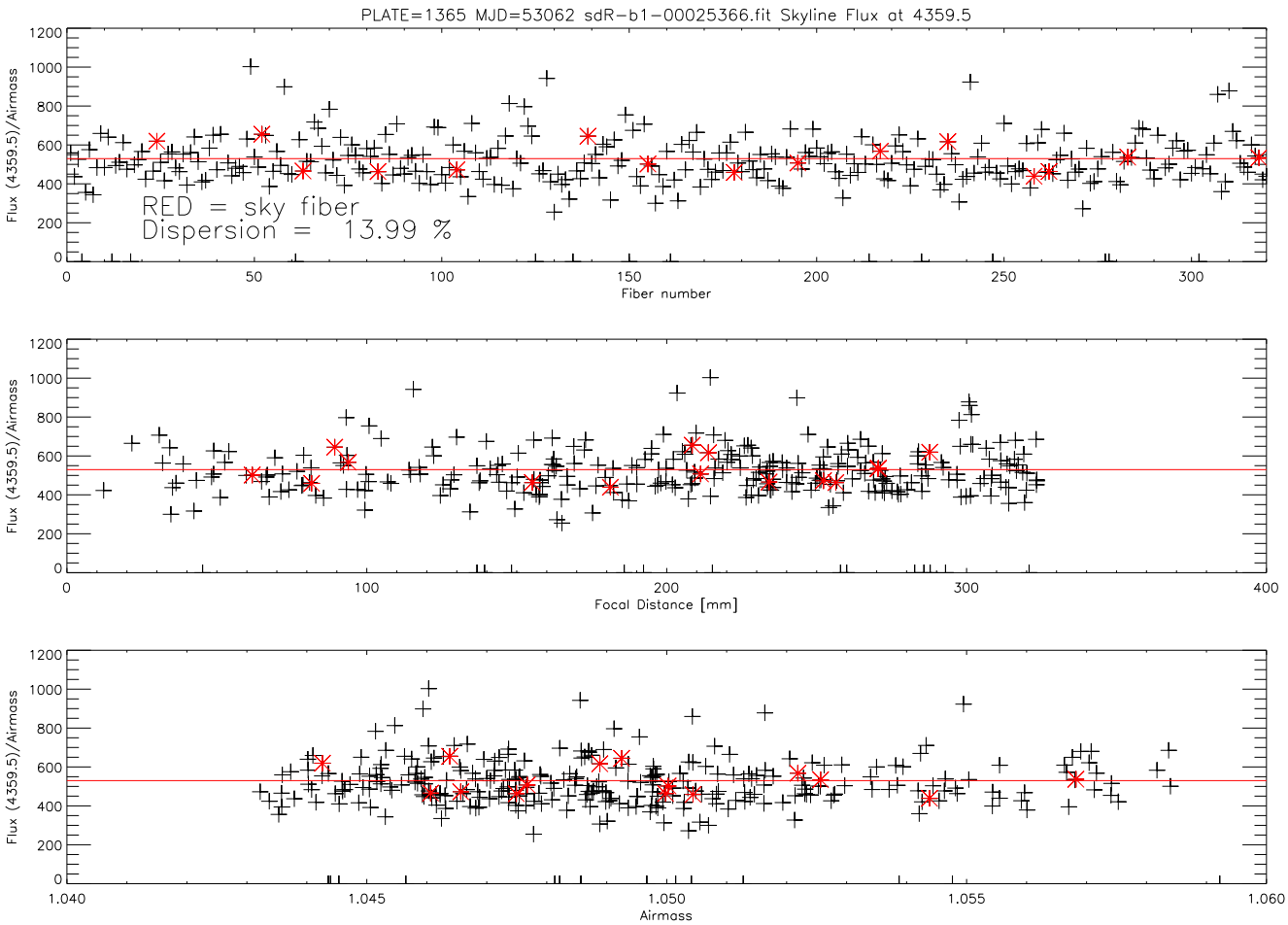

Number of sky fibers = 15
PLATE=1365 MJD=53062 sdR-b1-00025366.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

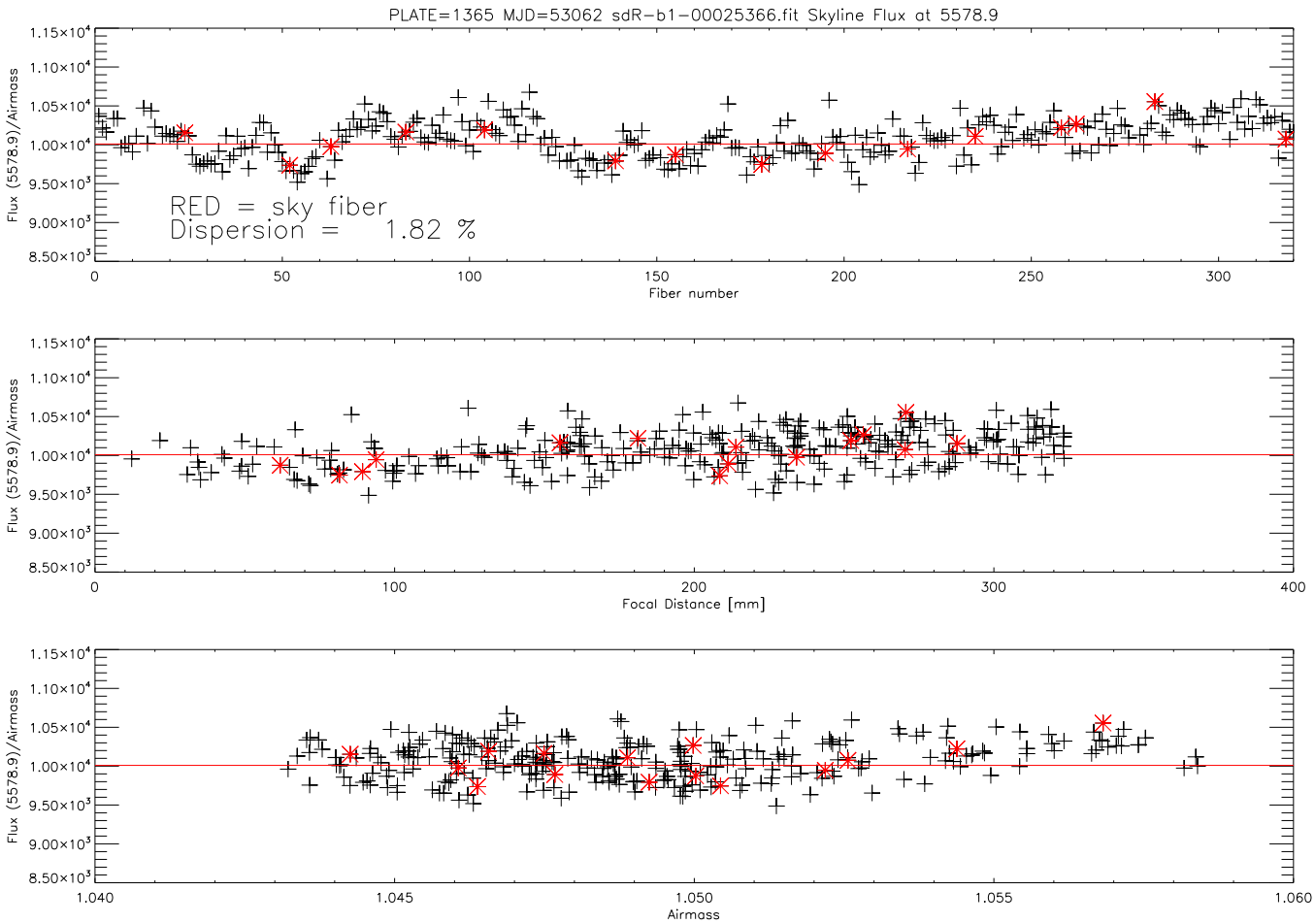

PLATE=1365 MJD=53062 sdR-b1-00025366.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

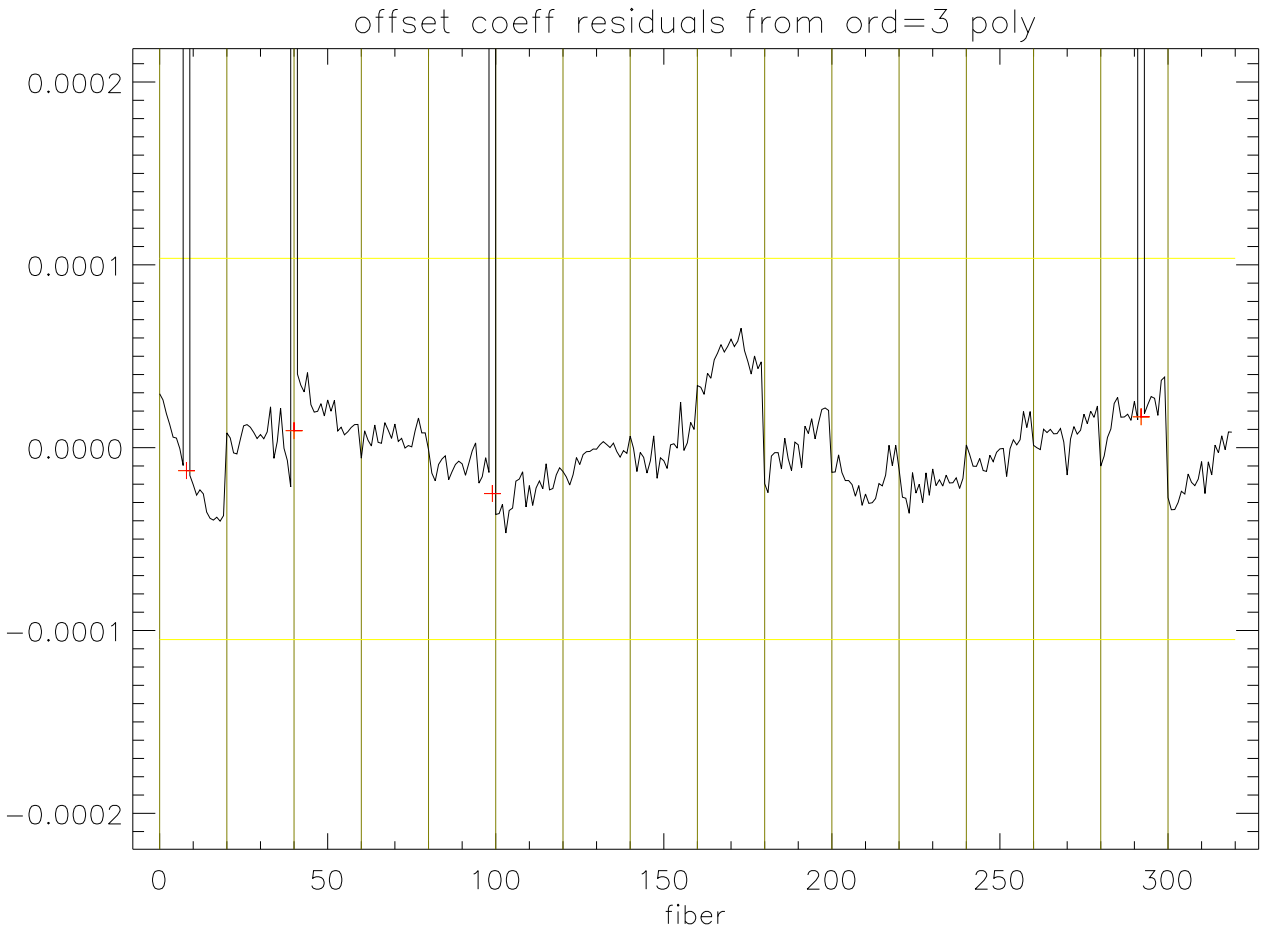

PLATE=1365 MJD=53062 sdR-b1-00025366.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

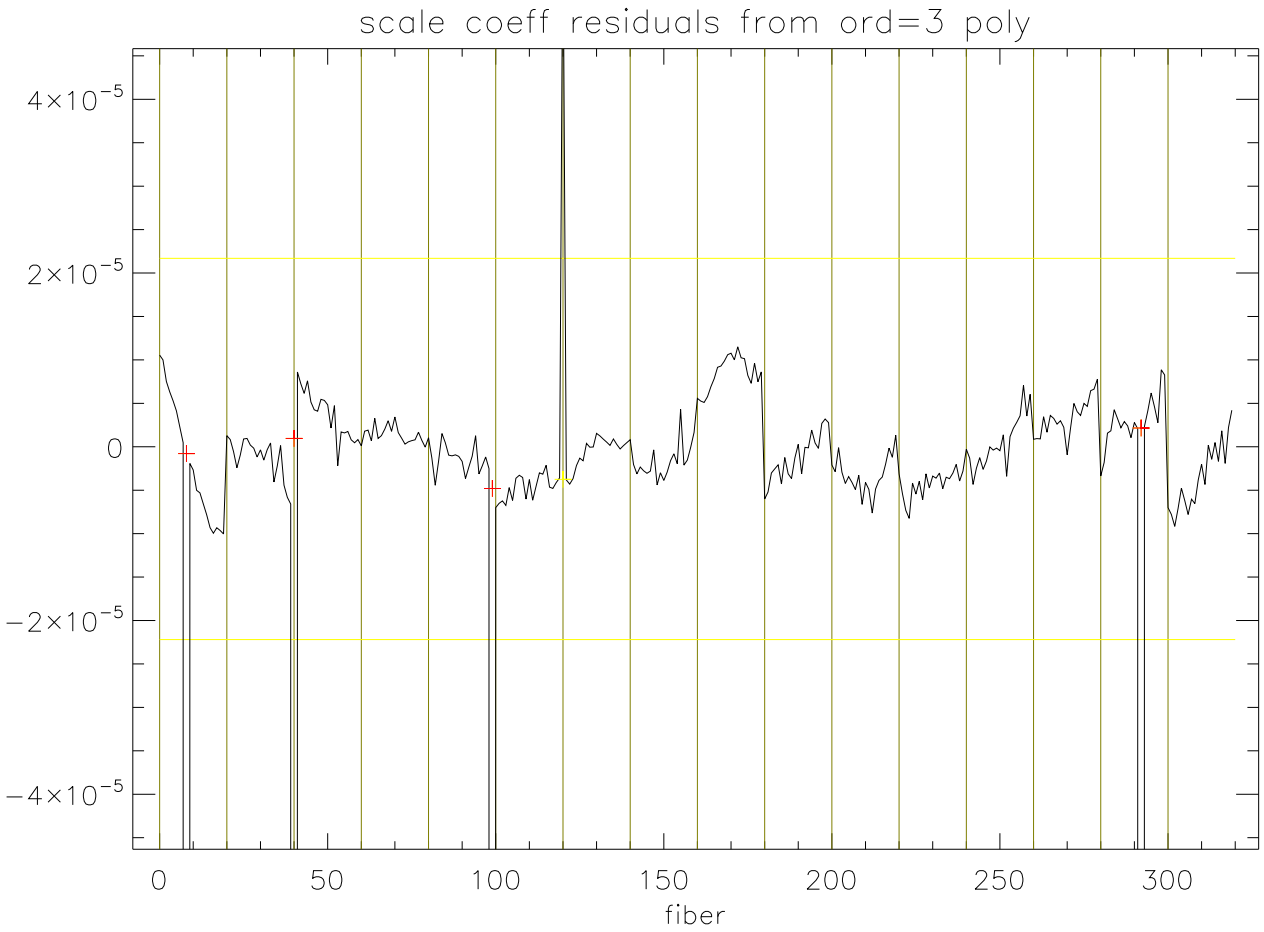

PLATE=1365 MJD=53062 sdR-b1-00025366.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

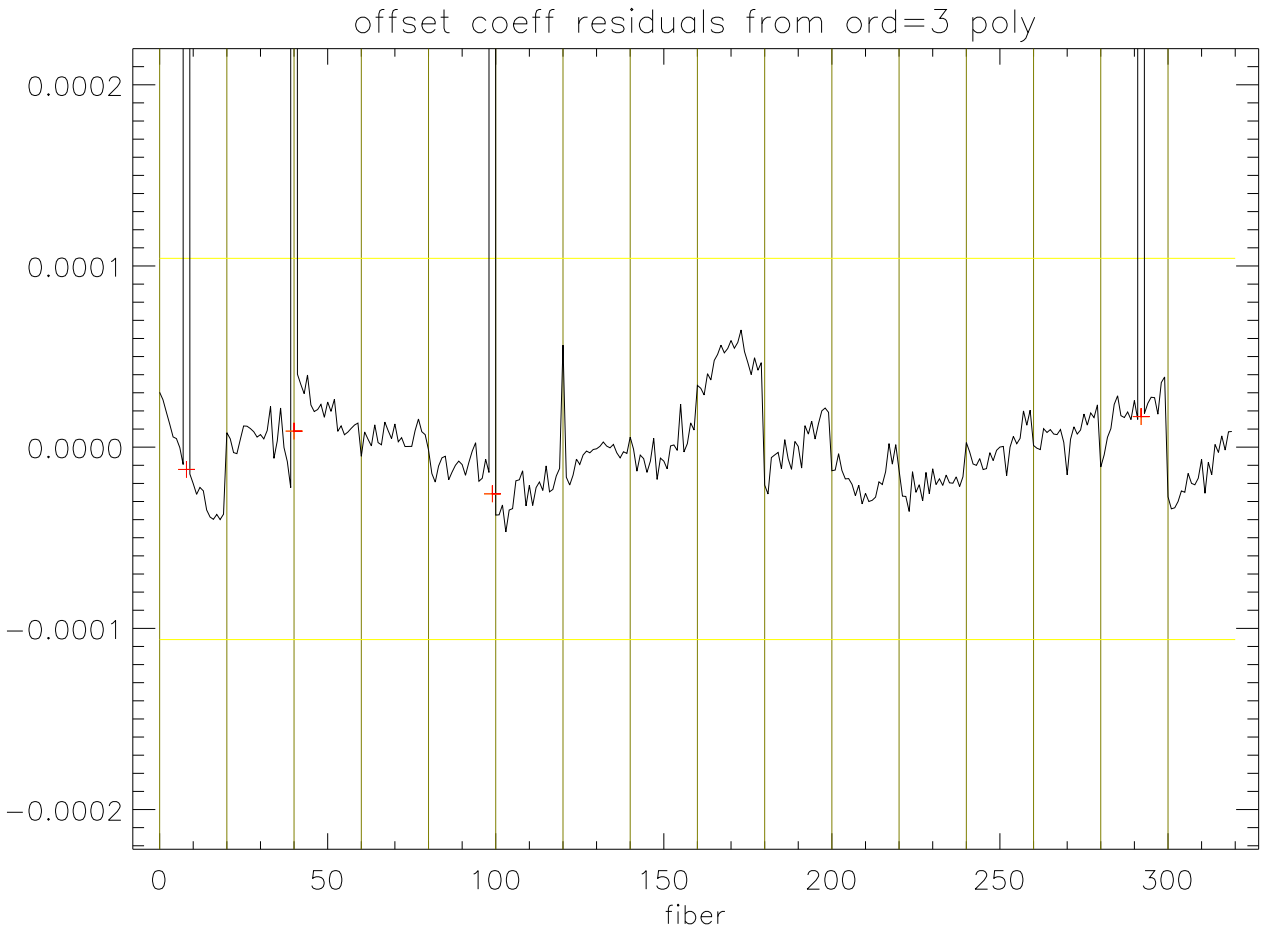

Number of sky fibers = 15
PLATE=1365 MJD=53062 sdR-b1-00025366.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

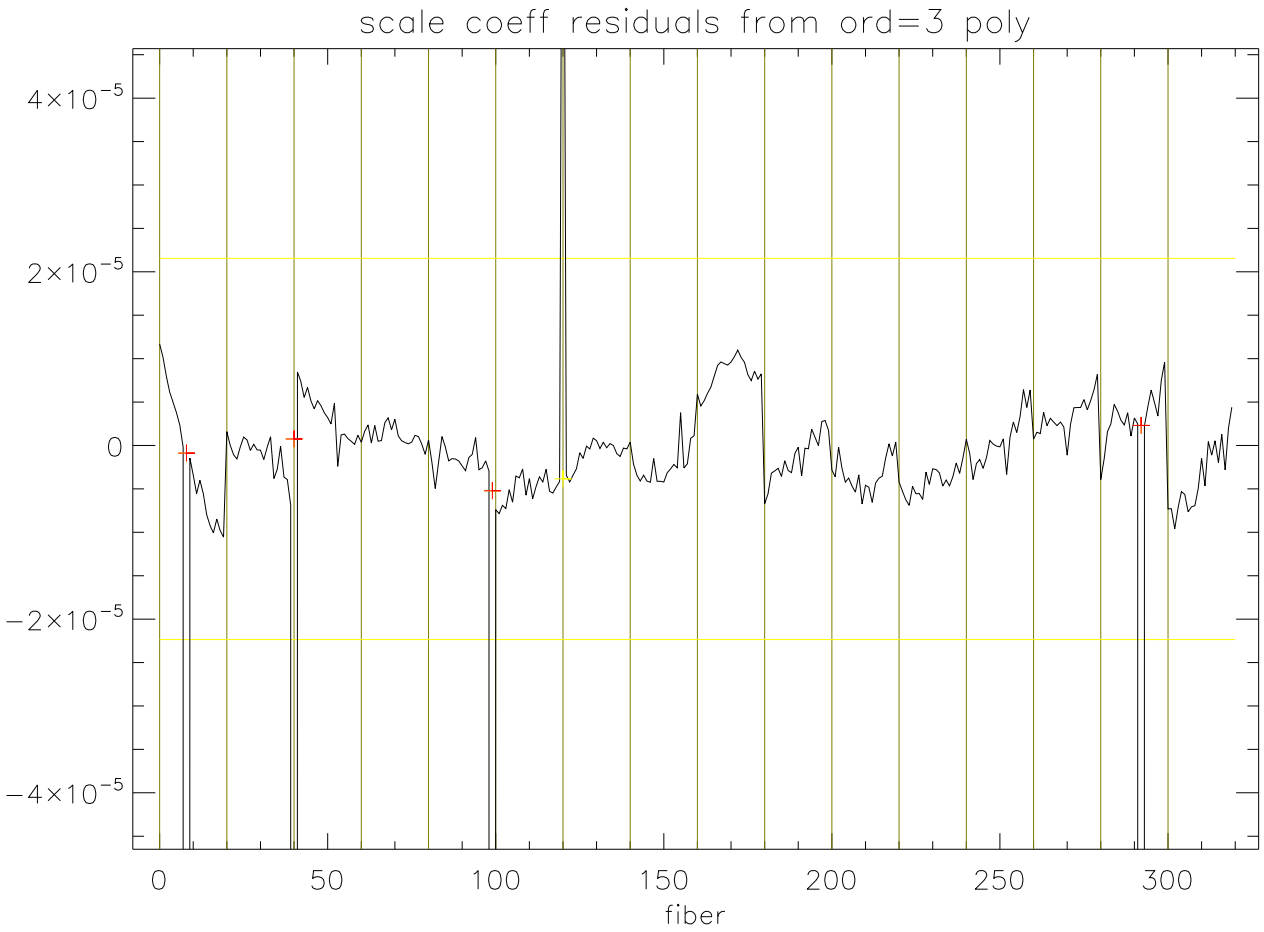

PLATE=1365 MJD=53062 sdR-b1-00025366.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.99 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

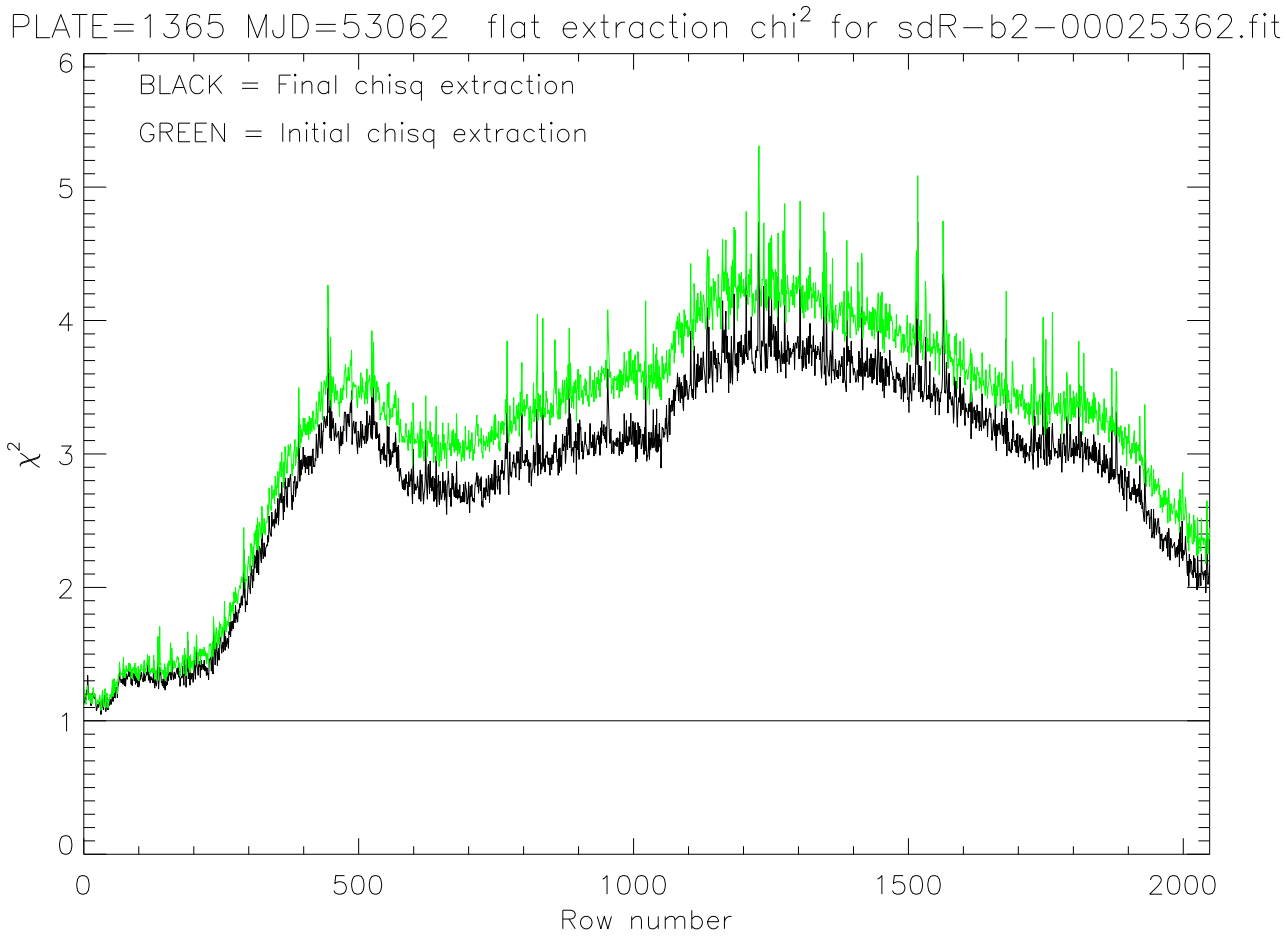

PLATE=1365 MJD=53062 sdR-b1-00025366.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.82 %
Fiber number
Focal Distance [mm]
Airmass

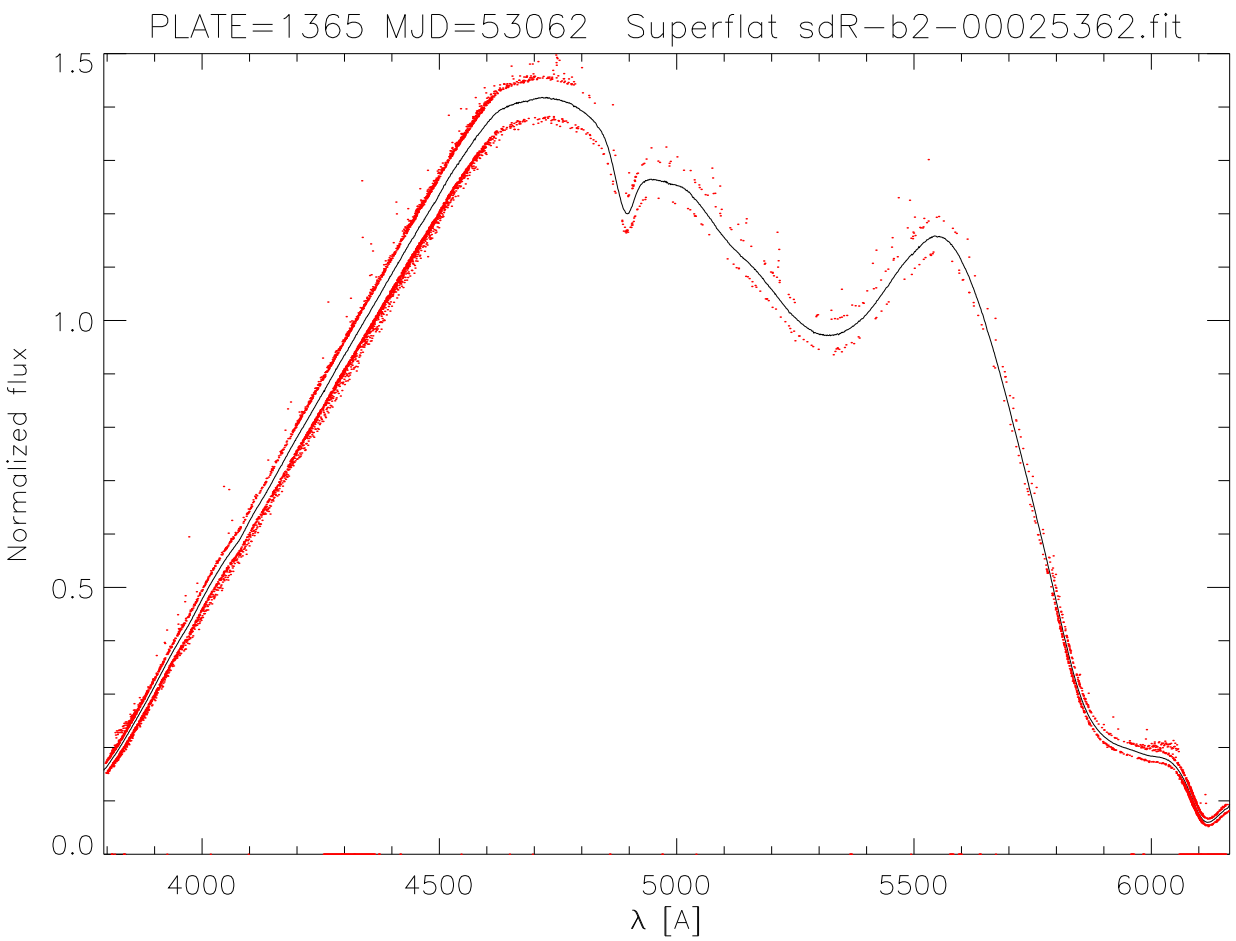

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

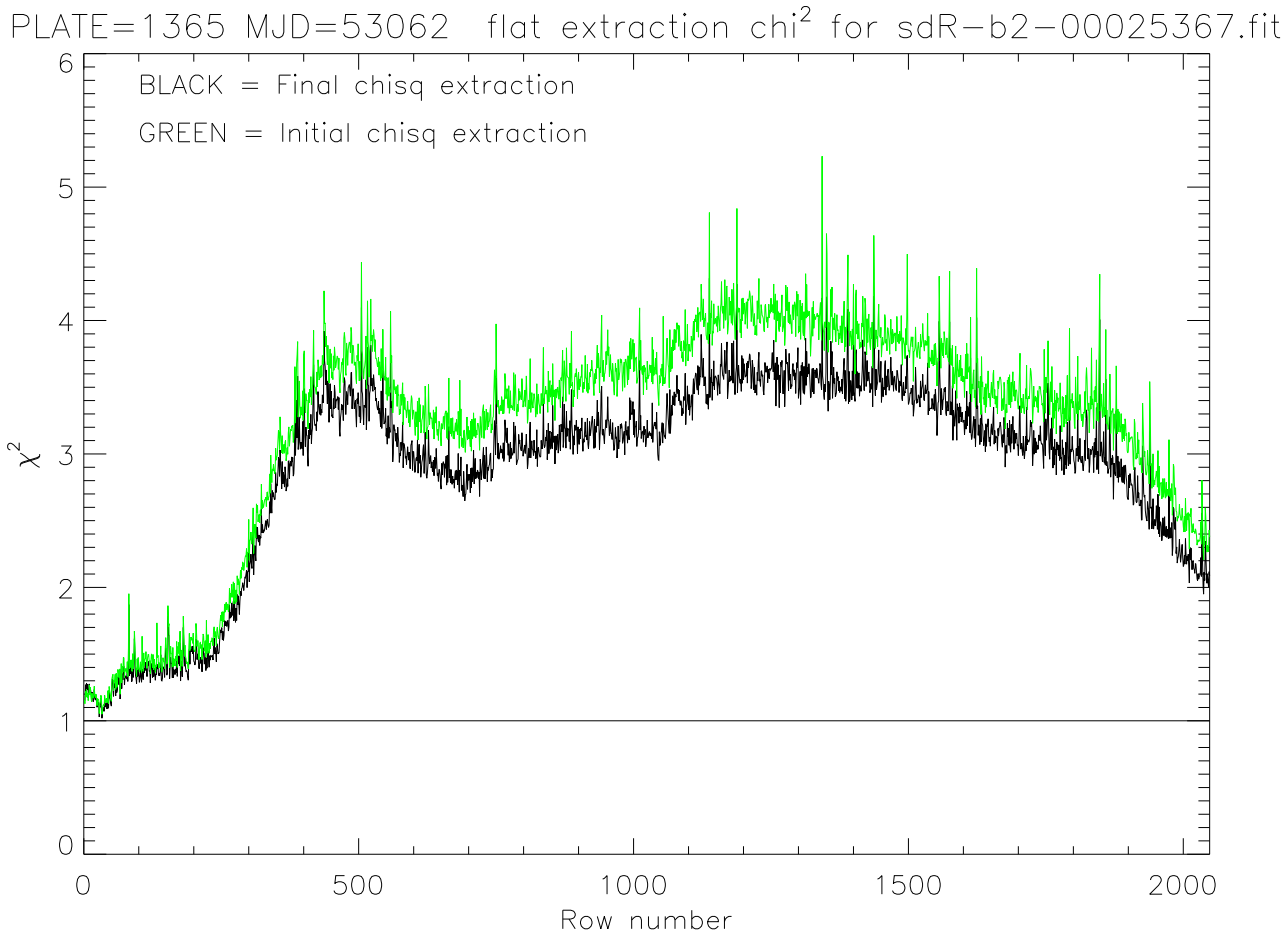

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

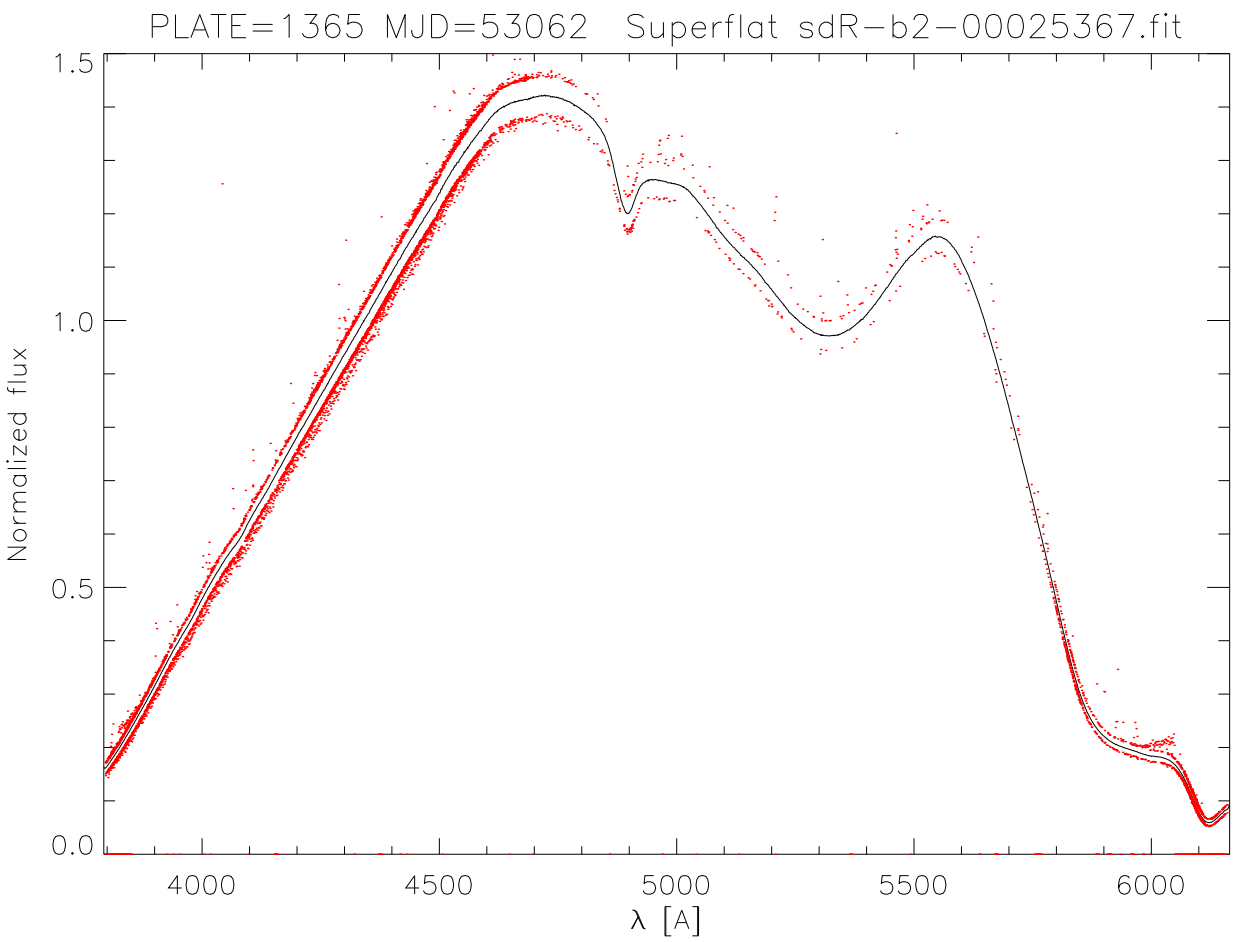

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

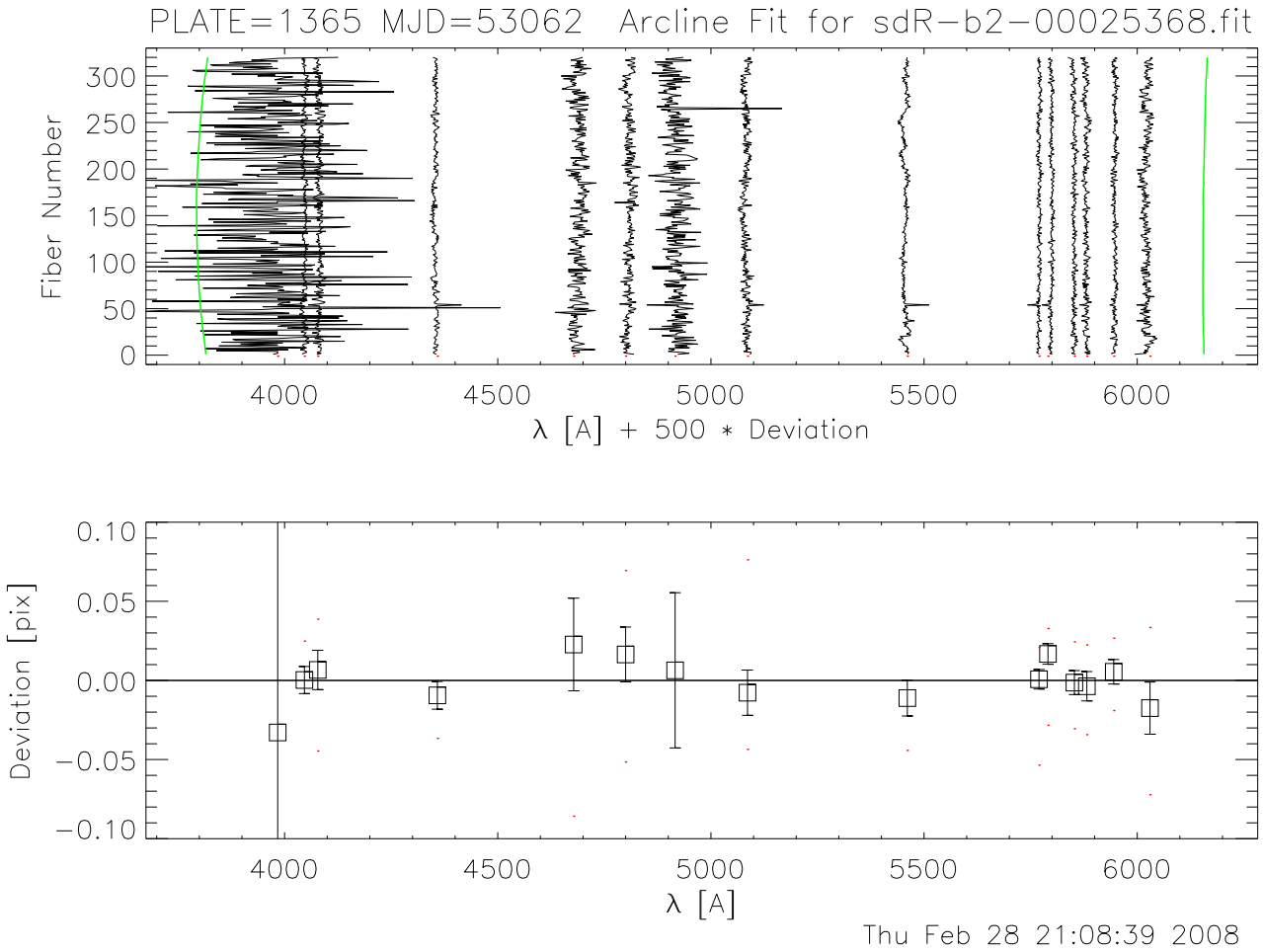

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

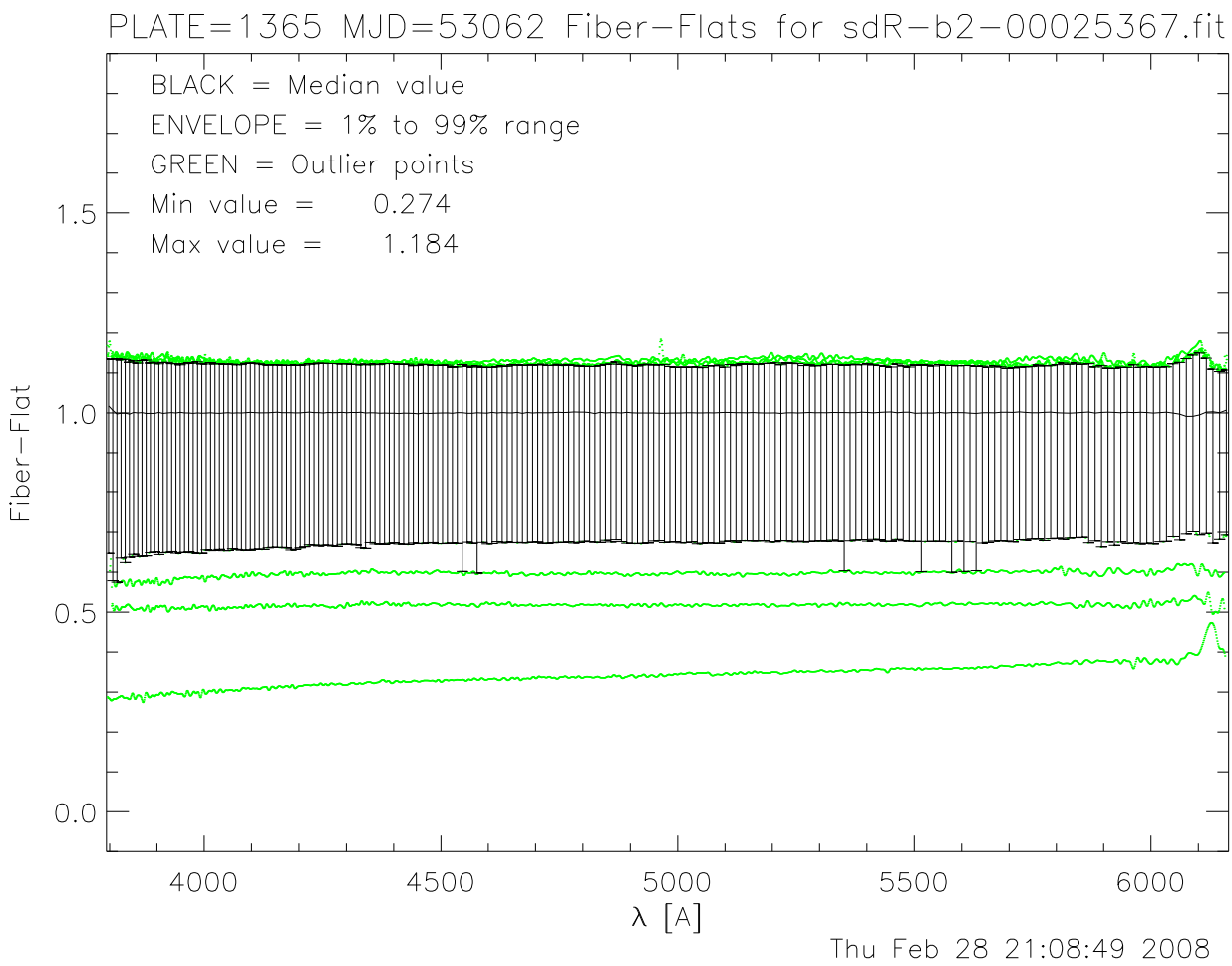

PLATE=1365 MJD=53062 flat extraction chi^2 for sdR−b2−00025362.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

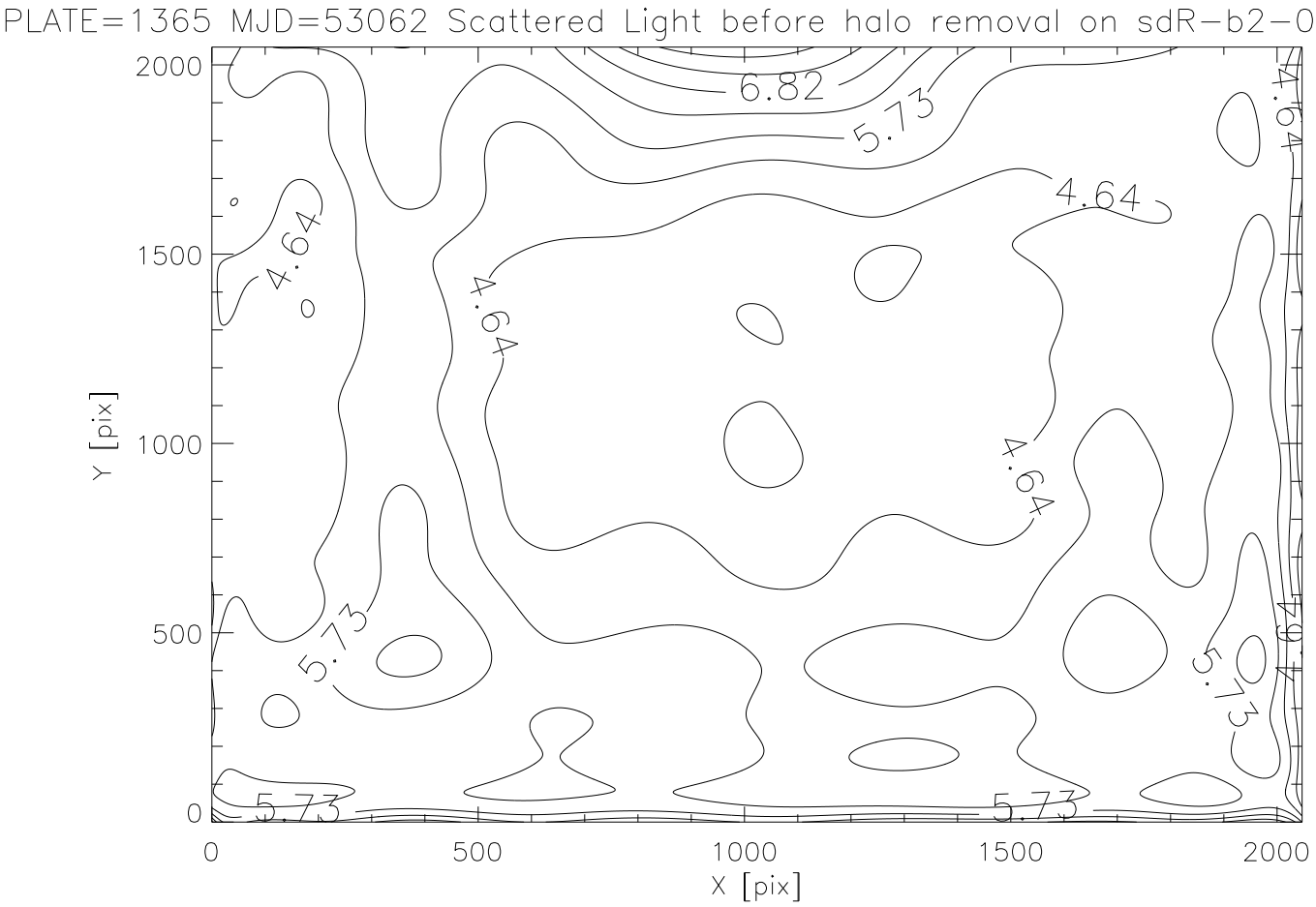

PLATE=1365 MJD=53062 Superflat sdR-b2-00025362.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

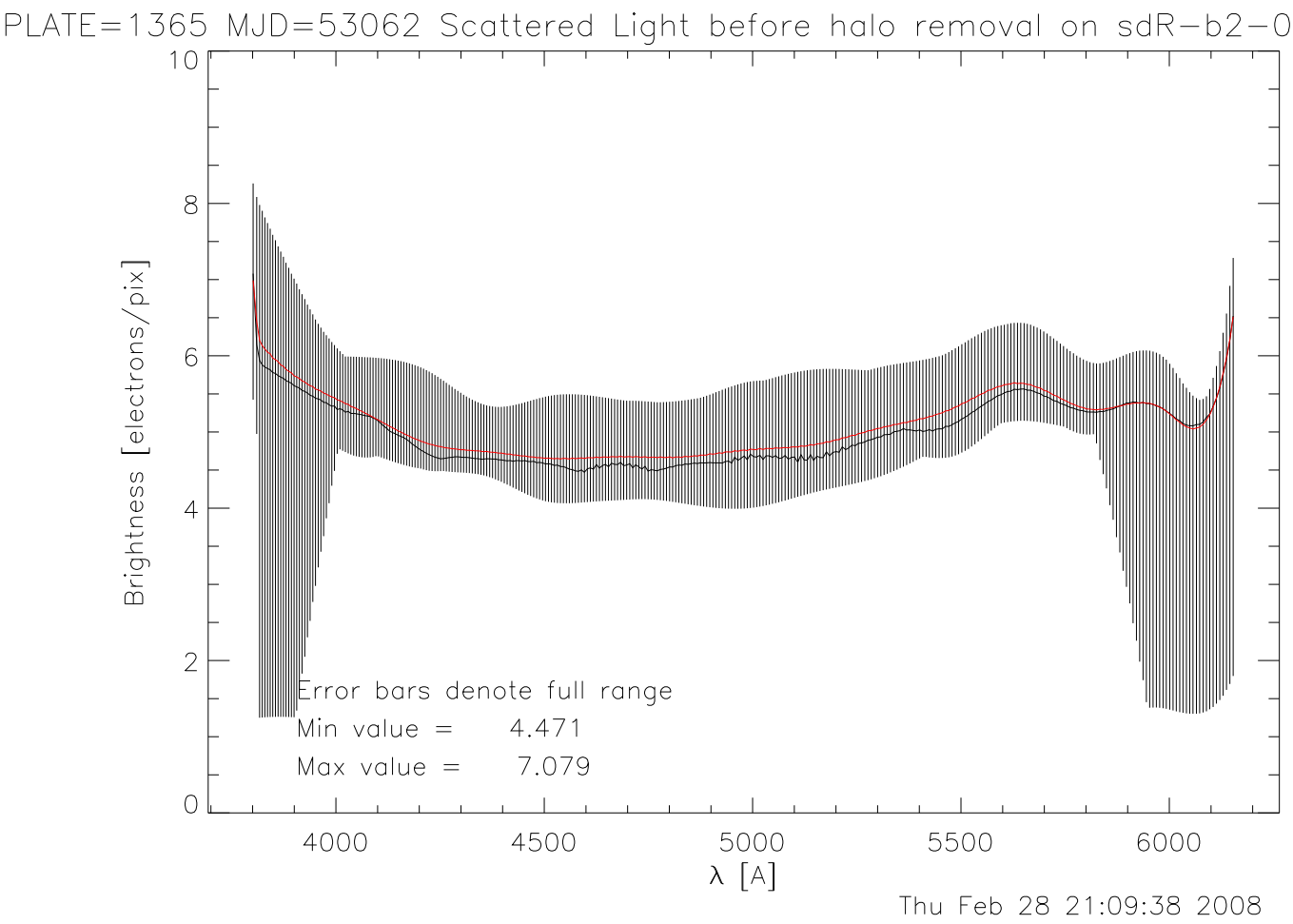

PLATE=1365 MJD=53062 flat extraction chi^2 for sdR−b2−00025367.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

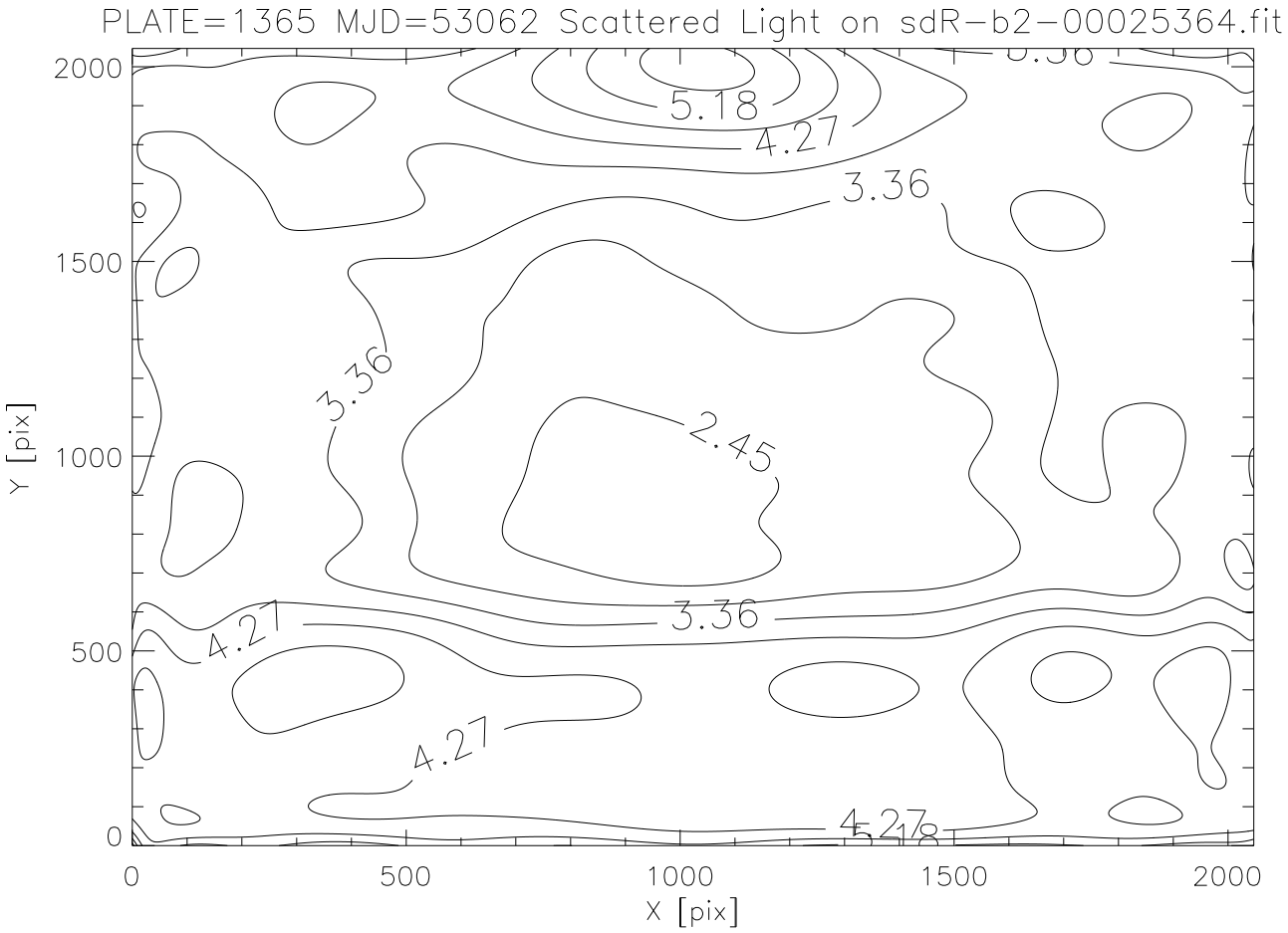

PLATE=1365 MJD=53062 Superflat sdR-b2-00025367.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

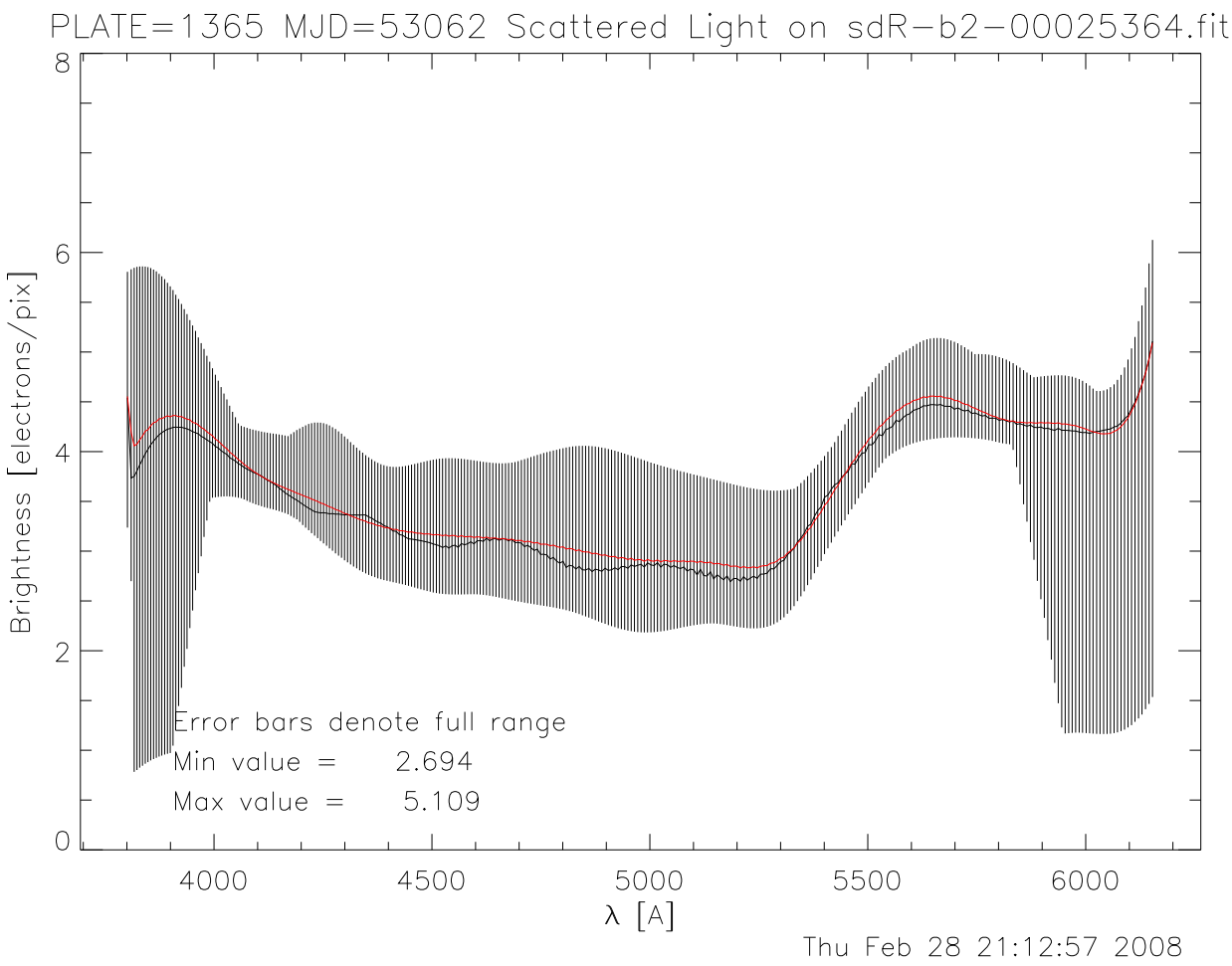

PLATE=1365 MJD=53062 Arcline Fit for sdR-b2-00025368.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 21:08:39 2008

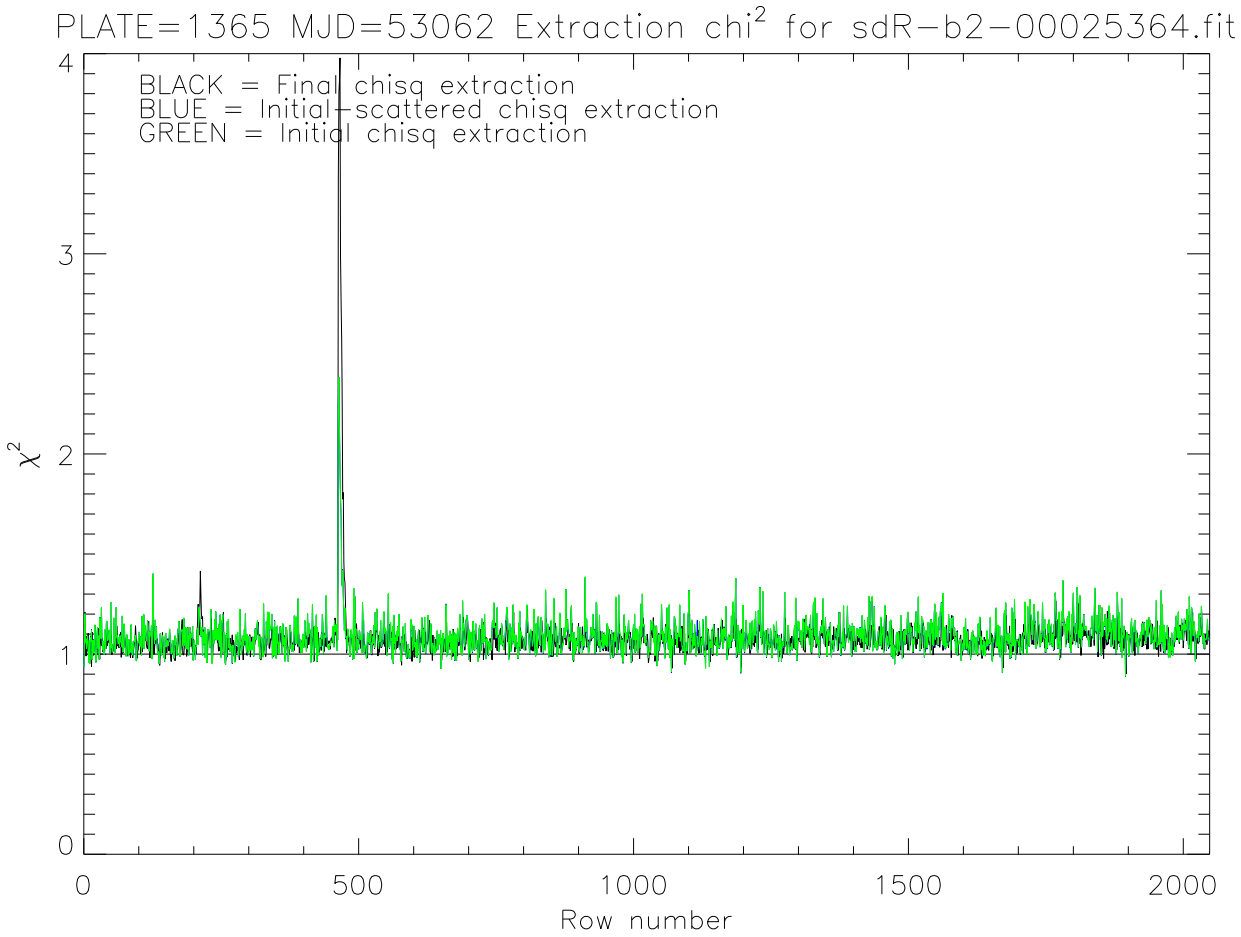

PLATE=1365 MJD=53062 Fiber-Flats for sdR-b2-00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.274
Max value = 1.184
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 21:08:49 2008

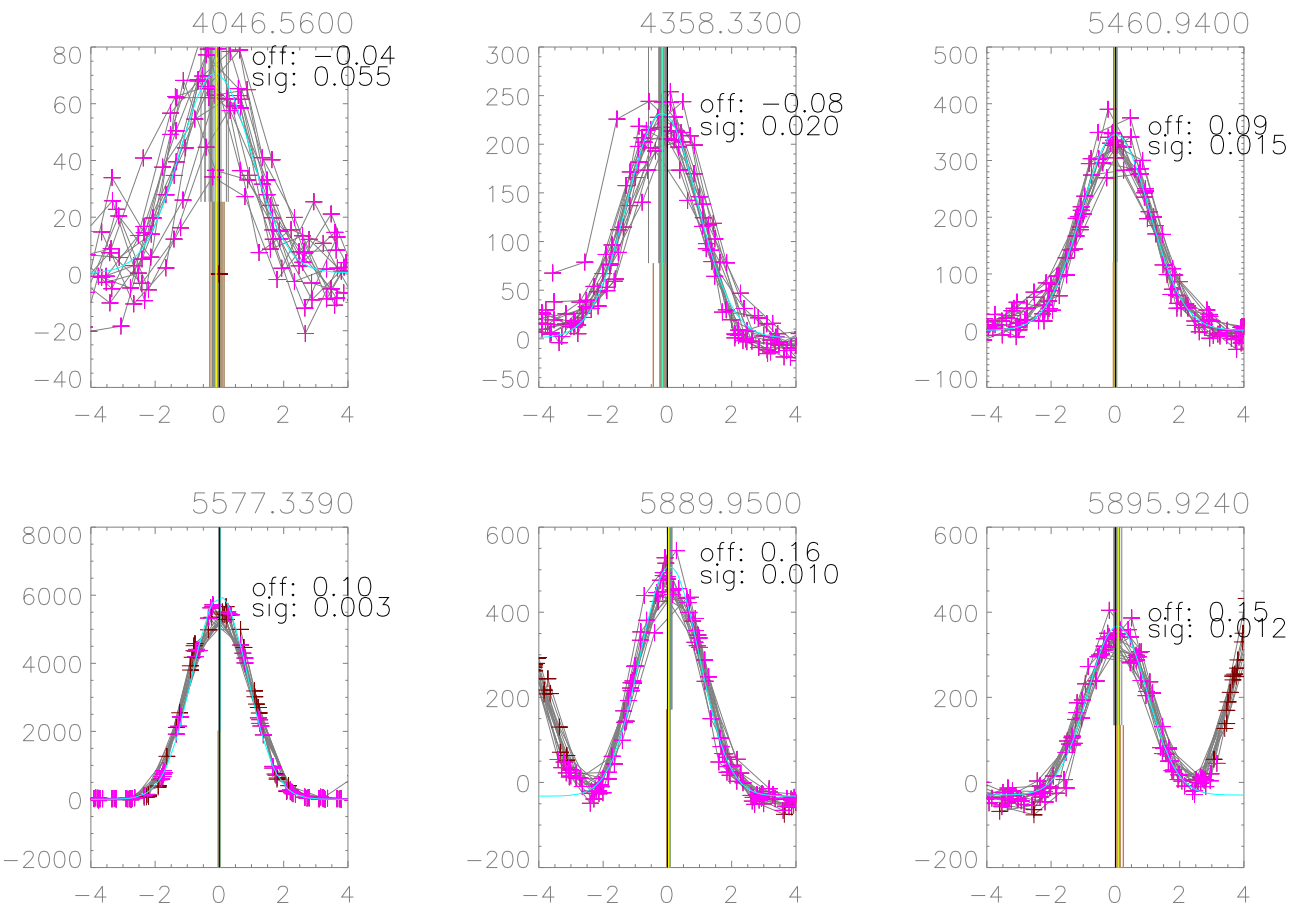

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR−b2−00025364.f
6.82
5.73
4.64
4.64
4.64
4.64
4.64
5.73
5.73
5.73
5.73
Y [pix]
X [pix]
0
500
1000
1500
2000

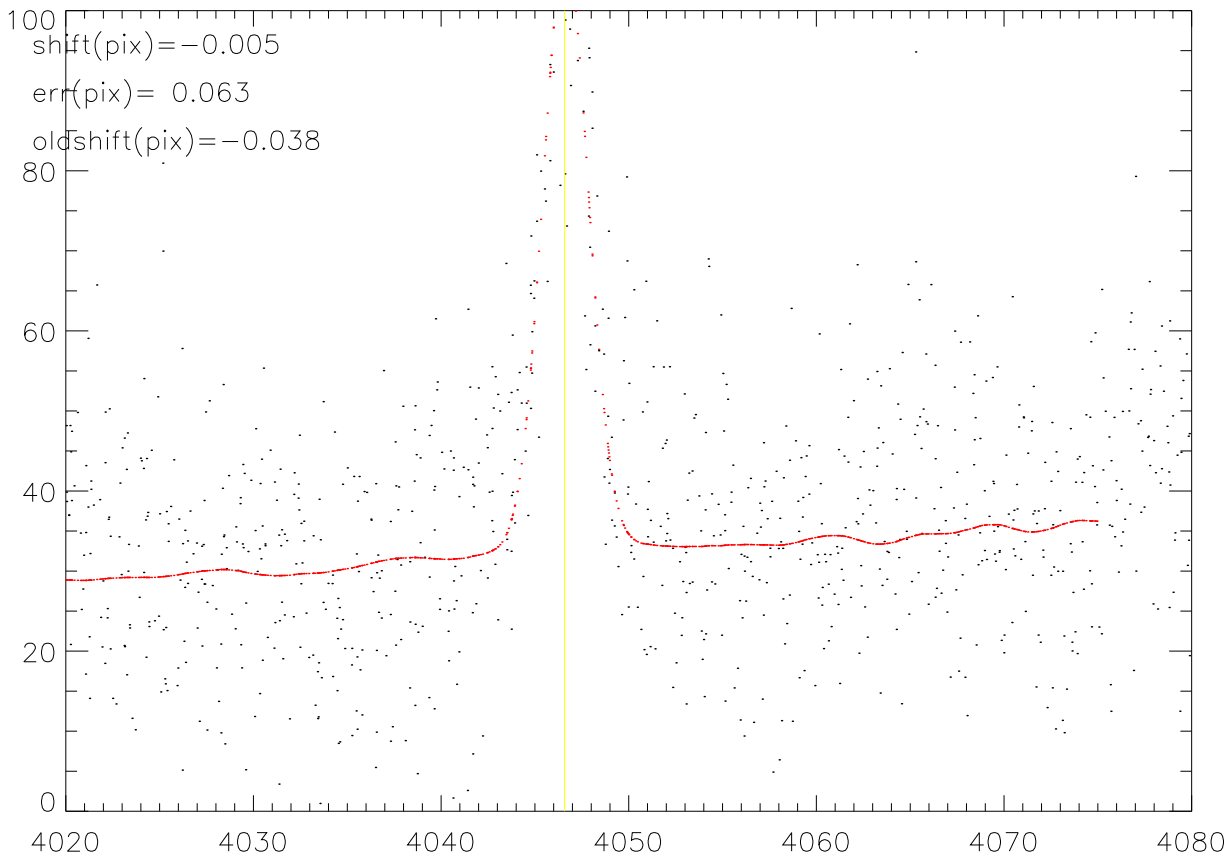

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b2-00025364.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.471
Max value = 7.079
Thu Feb 28 21:09:38 2008

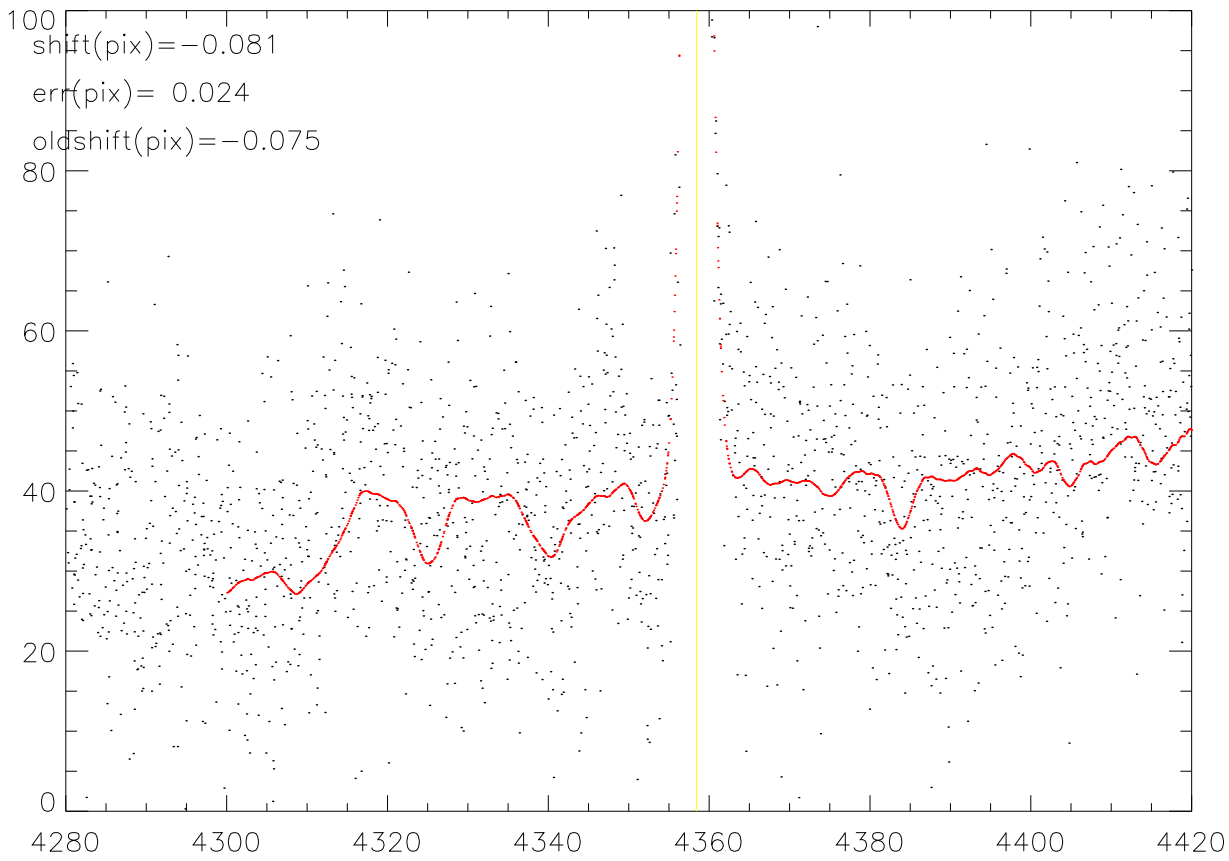

PLATE=1365 MJD=53062 Scattered Light on sdR-b2-00025364.fit
5.18
4.27
3.36
3.36
2.45
3.36
4.27
4.27
4.27
Y [pix]
X [pix]
0
500
1000
1500
2000

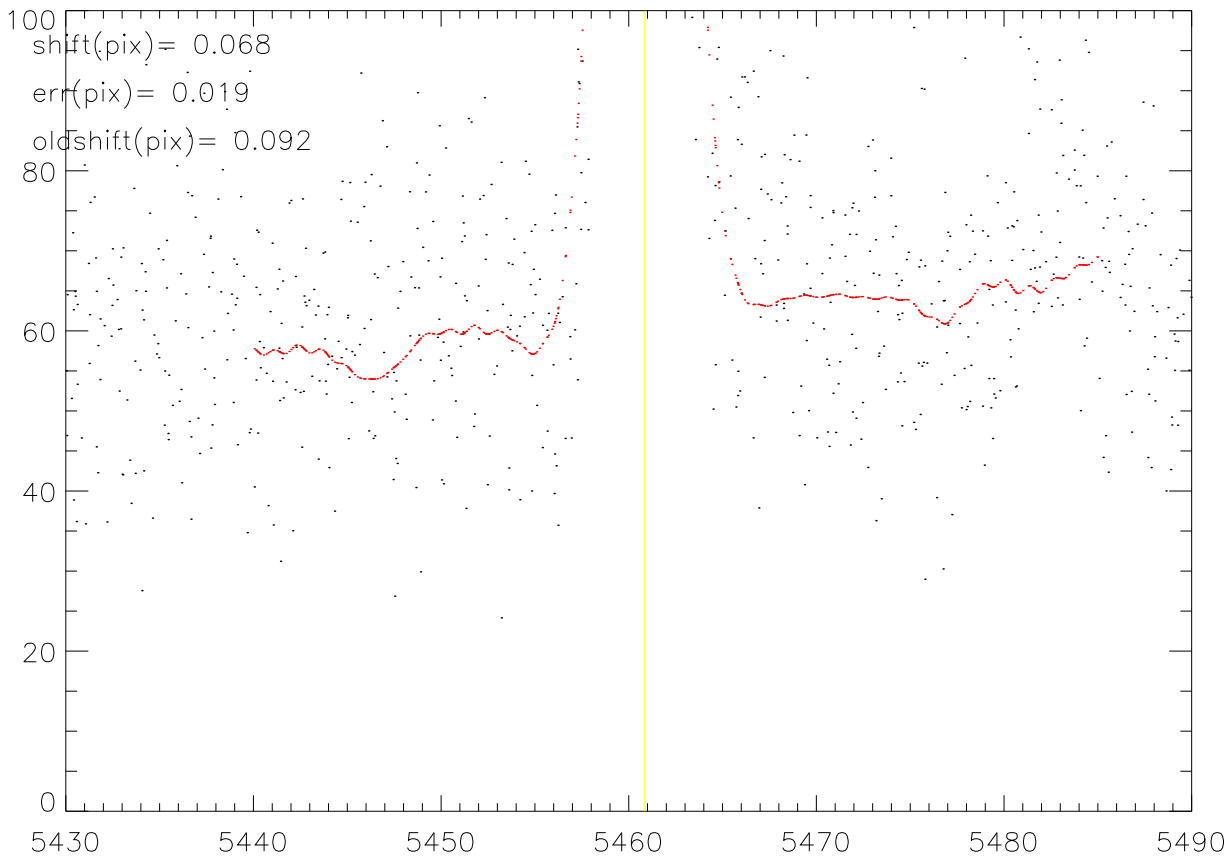

PLATE=1365 MJD=53062 Scattered Light on sdR-b2-00025364.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.694
Max value = 5.109
Thu Feb 28 21:12:57 2008

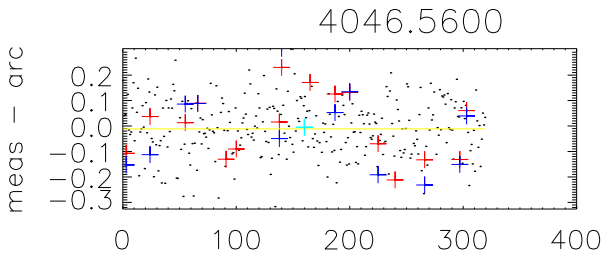

PLATE=1365 MJD=53062 Extraction chi^2 for sdR-b2-00025364.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

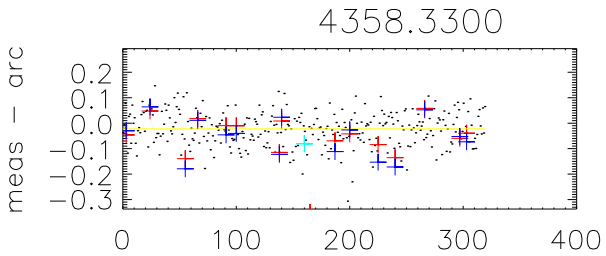

4046.5600
off: −0.04
sig: 0.055
4358.3300
off: −0.08
sig: 0.020
5460.9400
off: 0.09
sig: 0.015
5577.3390
off: 0.10
sig: 0.003
5889.9500
off: 0.16
sig: 0.010
5895.9240
off: 0.15
sig: 0.012

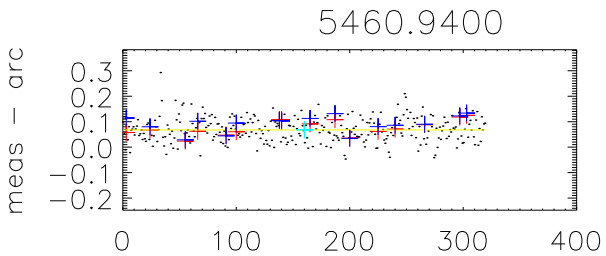

shift(pix)=−0.005
err(pix)= 0.063
oldshift(pix)=−0.038
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

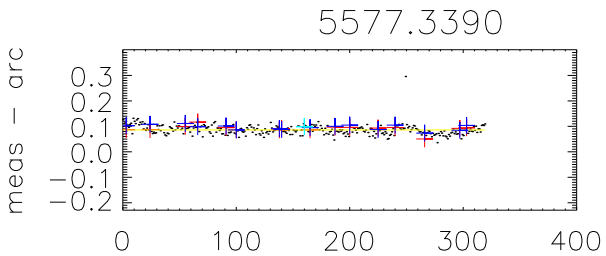

shift(pix)=−0.081
err(pix)= 0.024
oldshift(pix)=−0.075
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

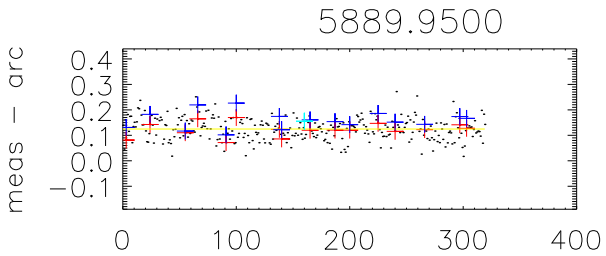

shift(pix)= 0.068
err(pix)= 0.019
oldshift(pix)= 0.092
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

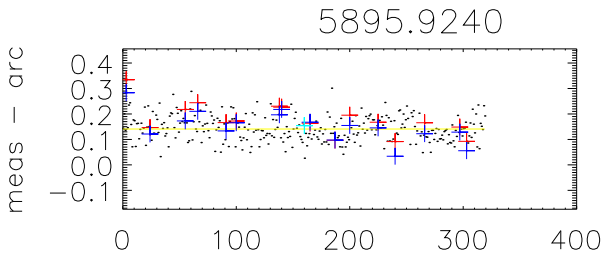

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

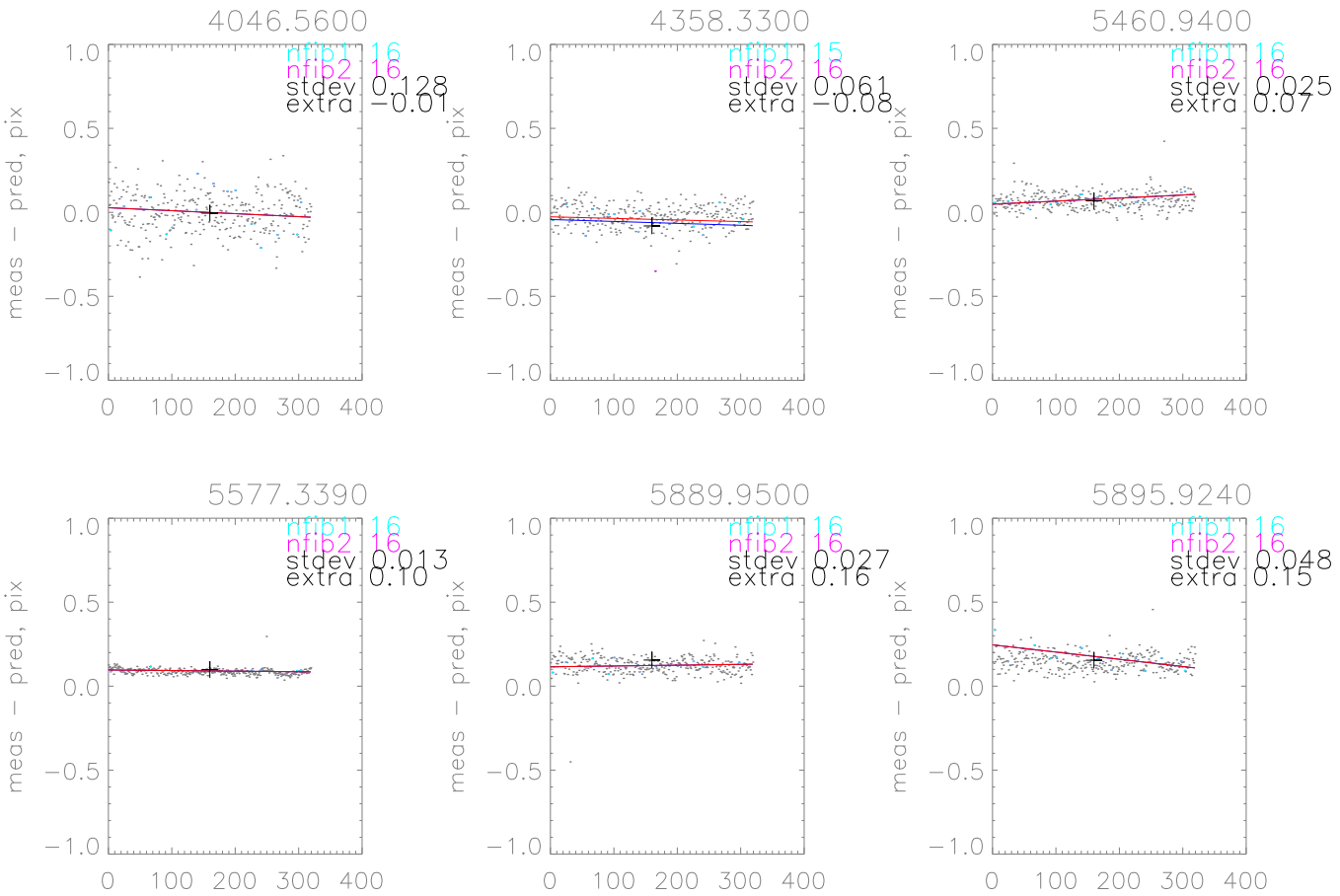

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

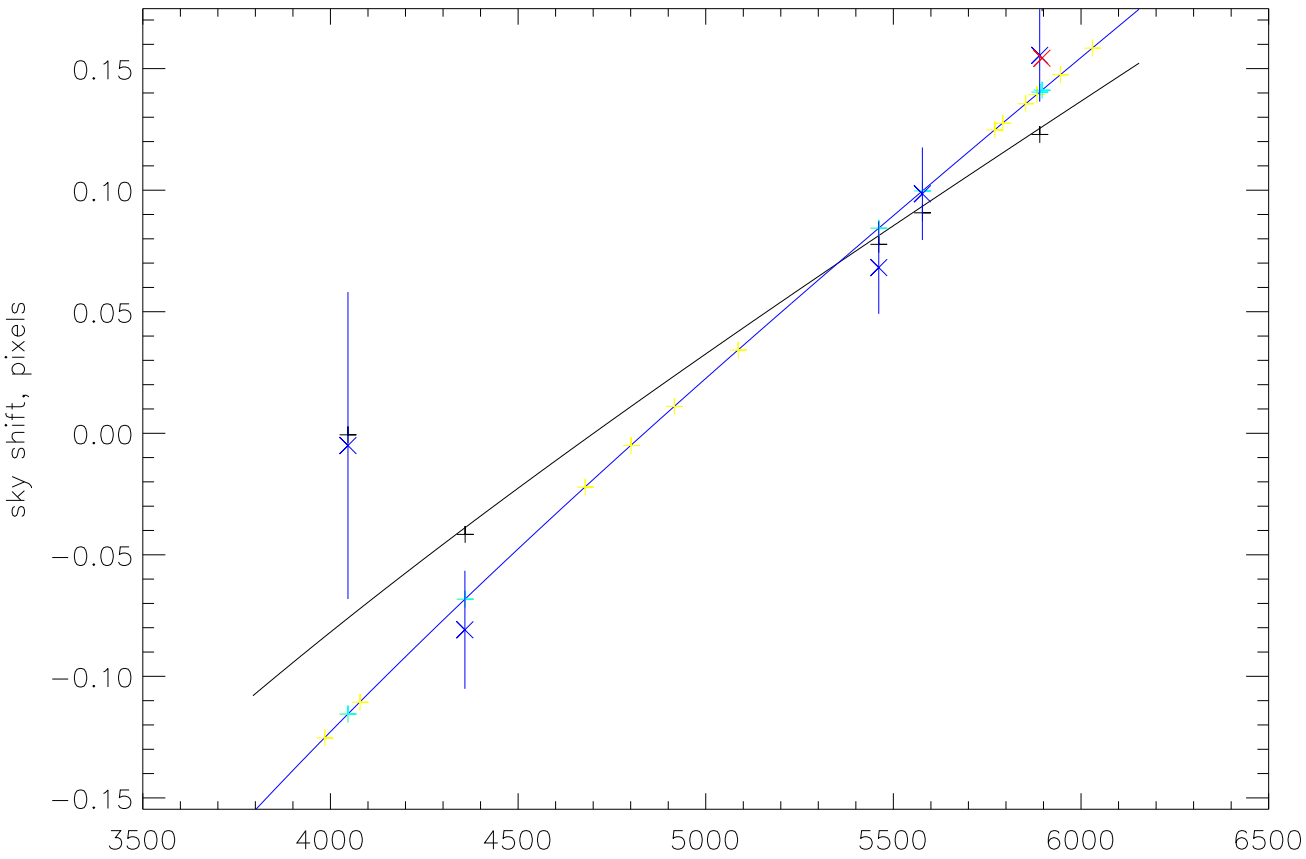

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

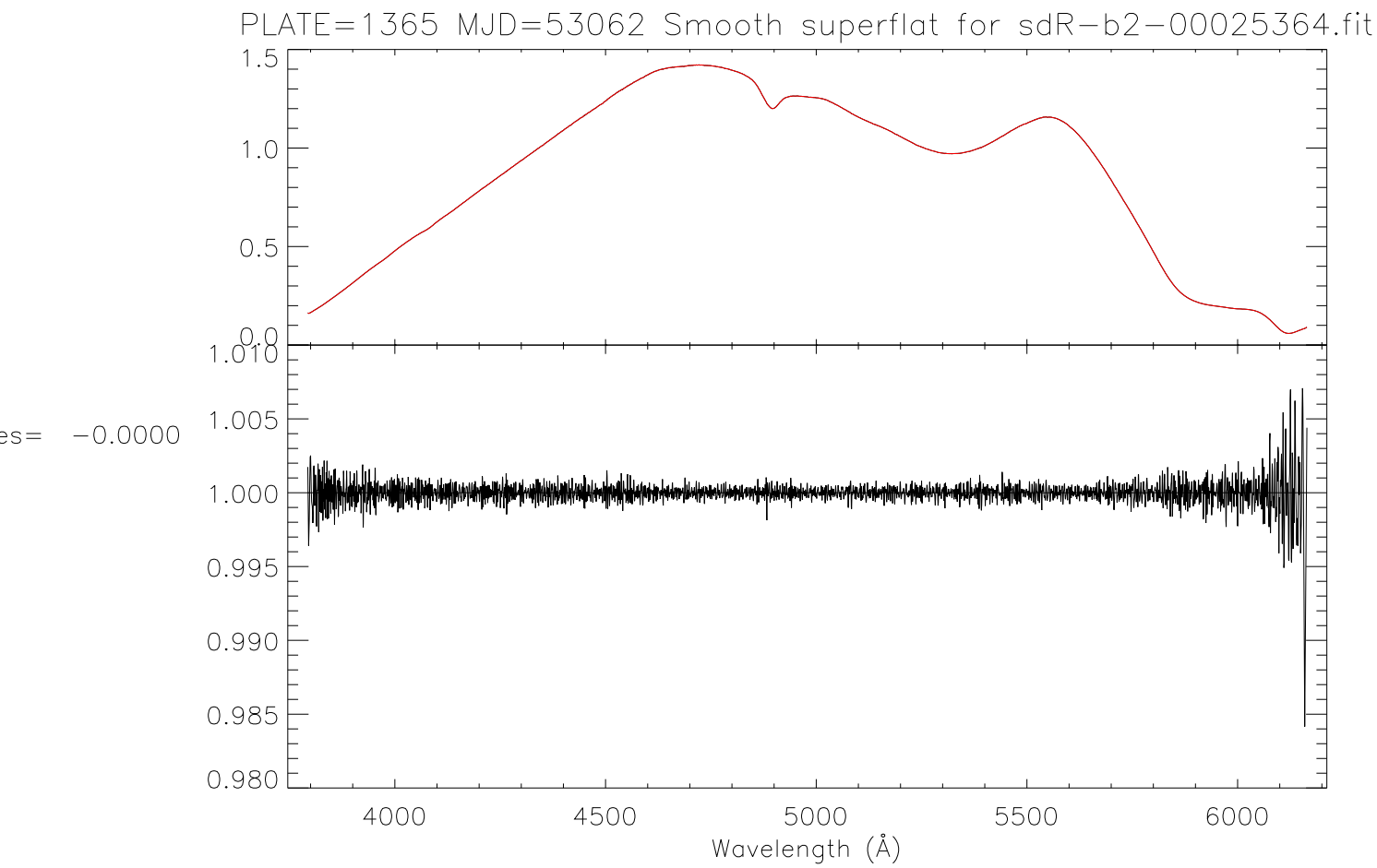

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

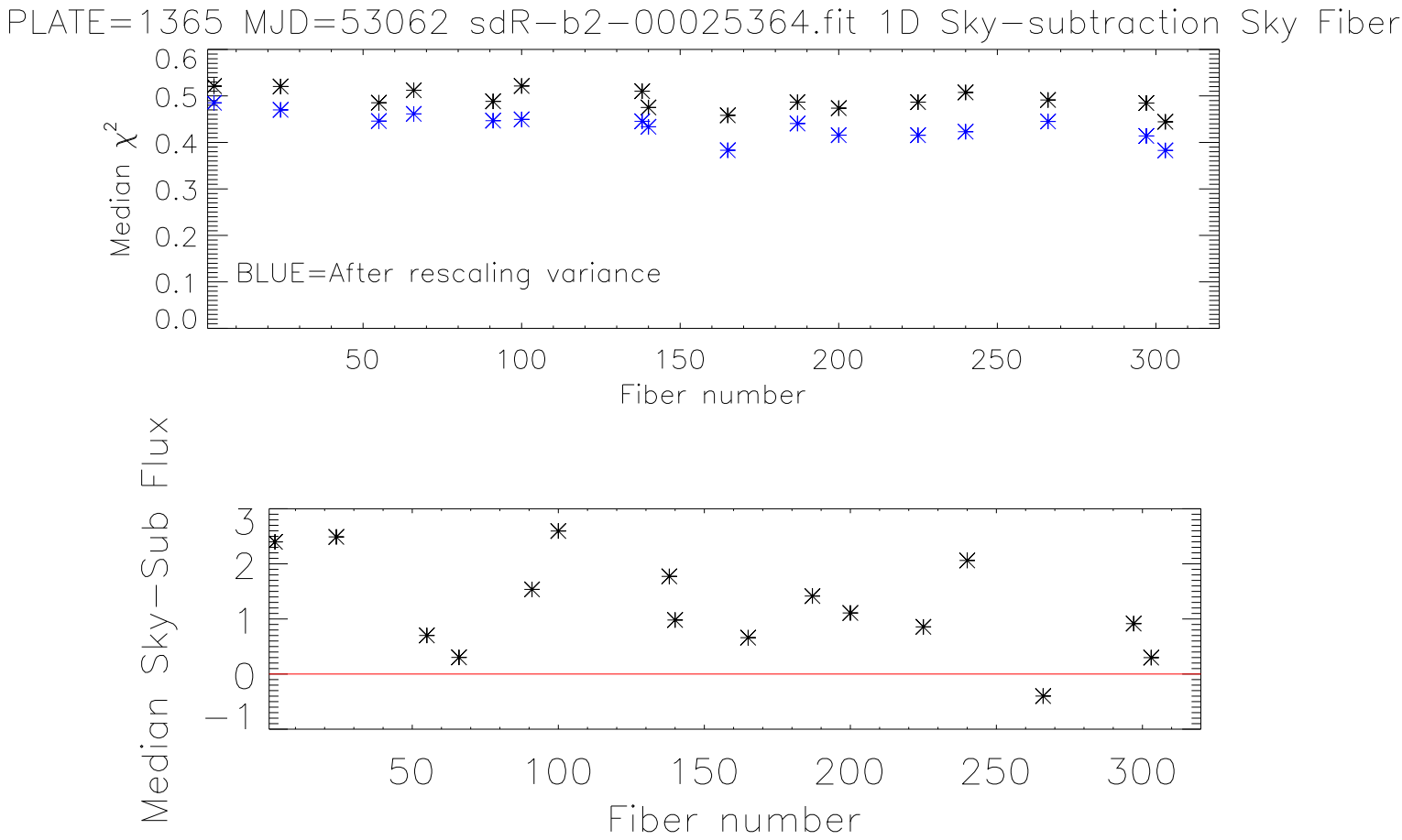

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

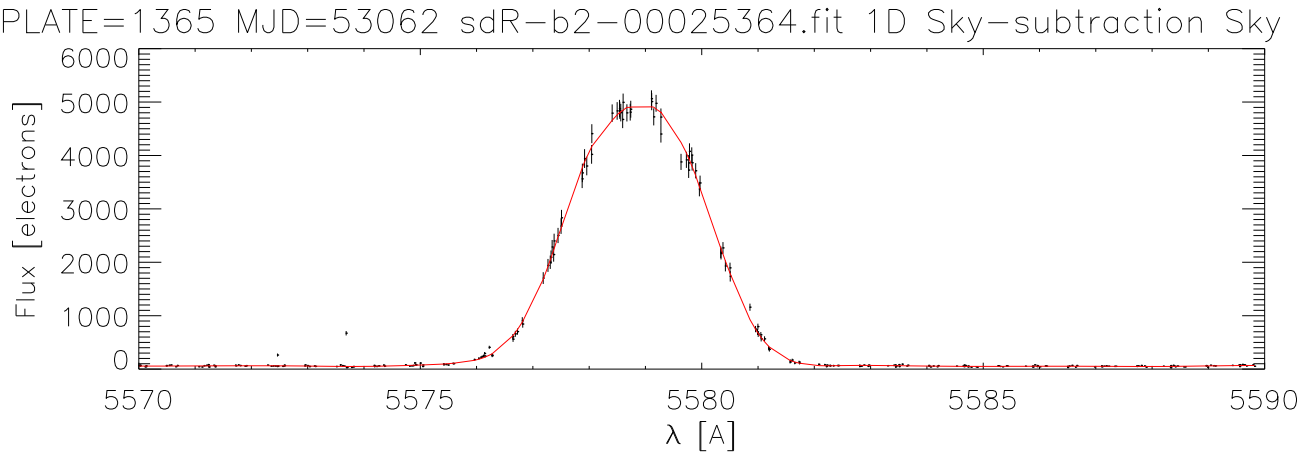

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

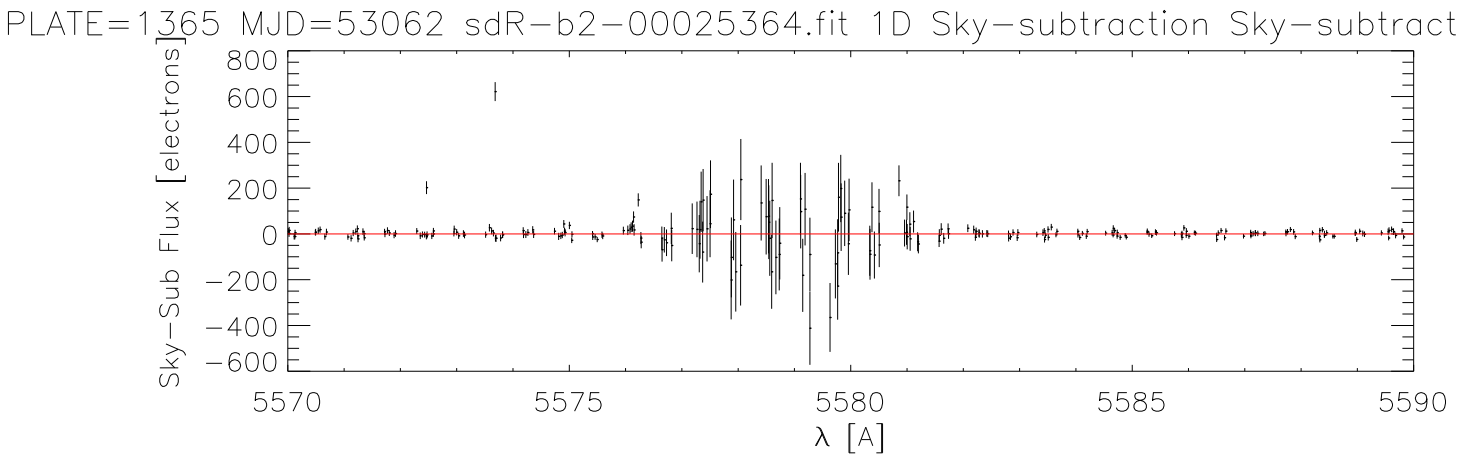

4046.5600
nfib1 16
nfib2 16
stdev 0.128
extra −0.01
4358.3300
nfib1 15
nfib2 16
stdev 0.061
extra −0.08
5460.9400
nfib1 16
nfib2 16
stdev 0.025
extra 0.07
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra 0.10
5889.9500
nfib1 16
nfib2 16
stdev 0.027
extra 0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.048
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

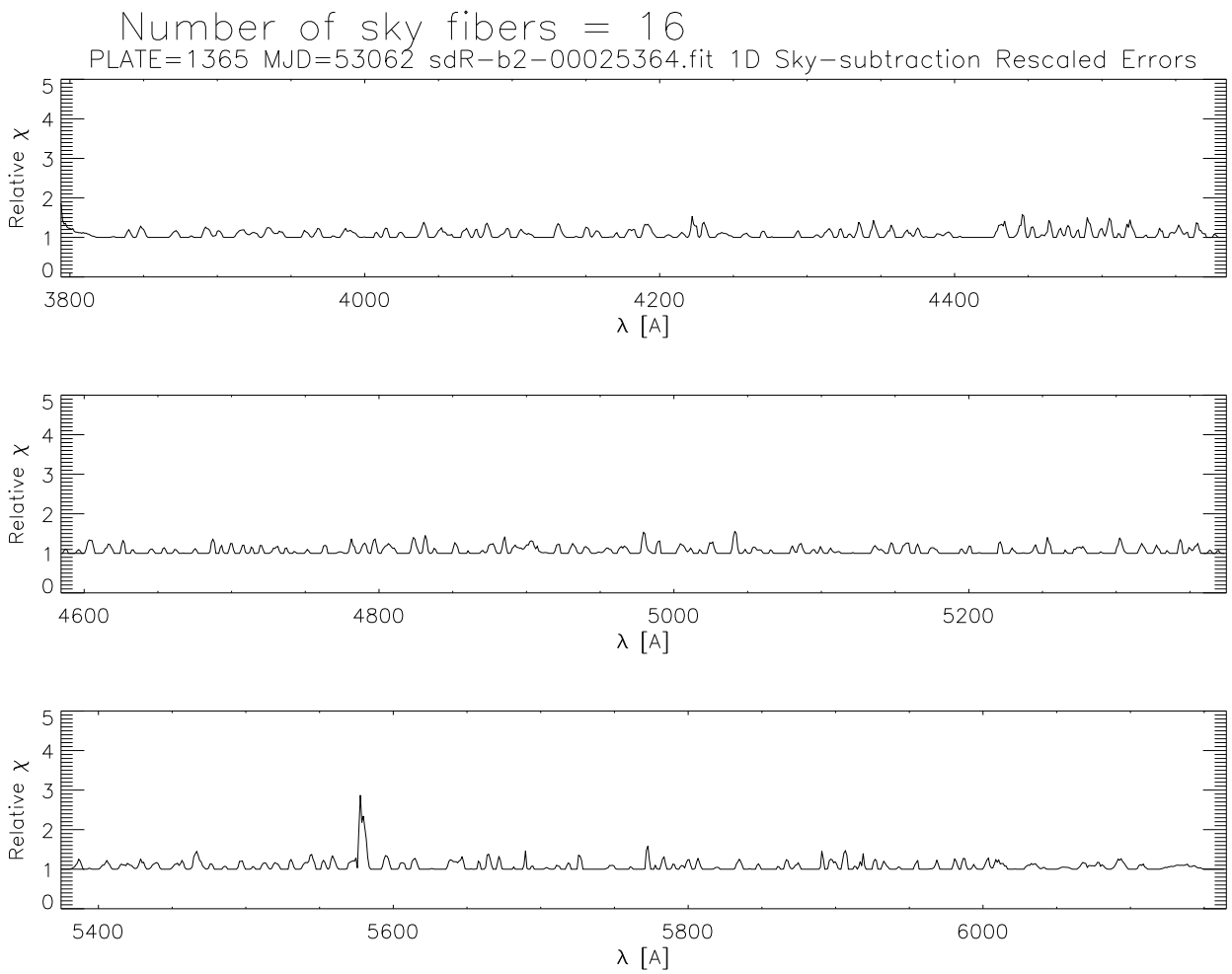

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

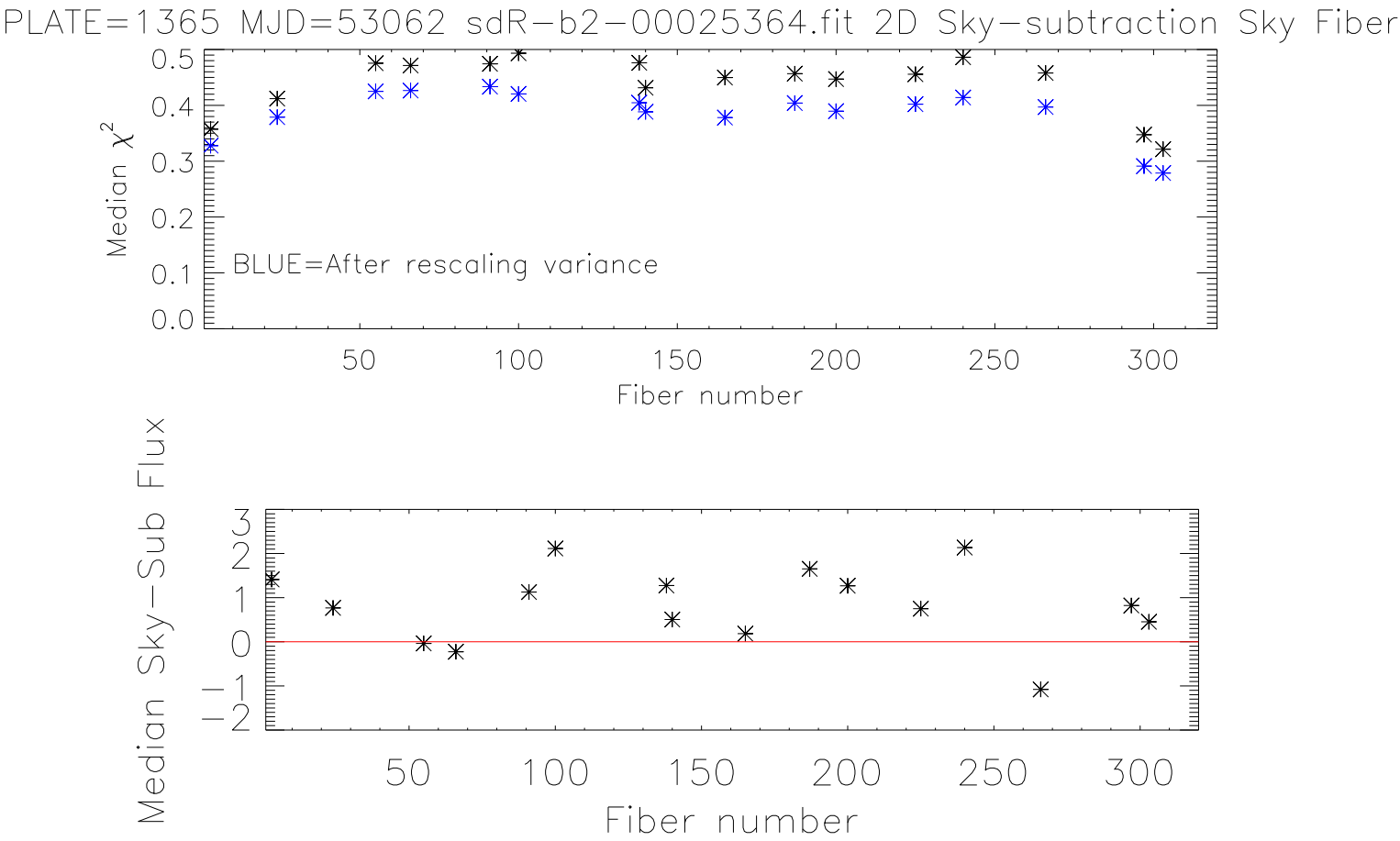

PLATE=1365 MJD=53062 Smooth superflat for sdR-b2-00025364.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

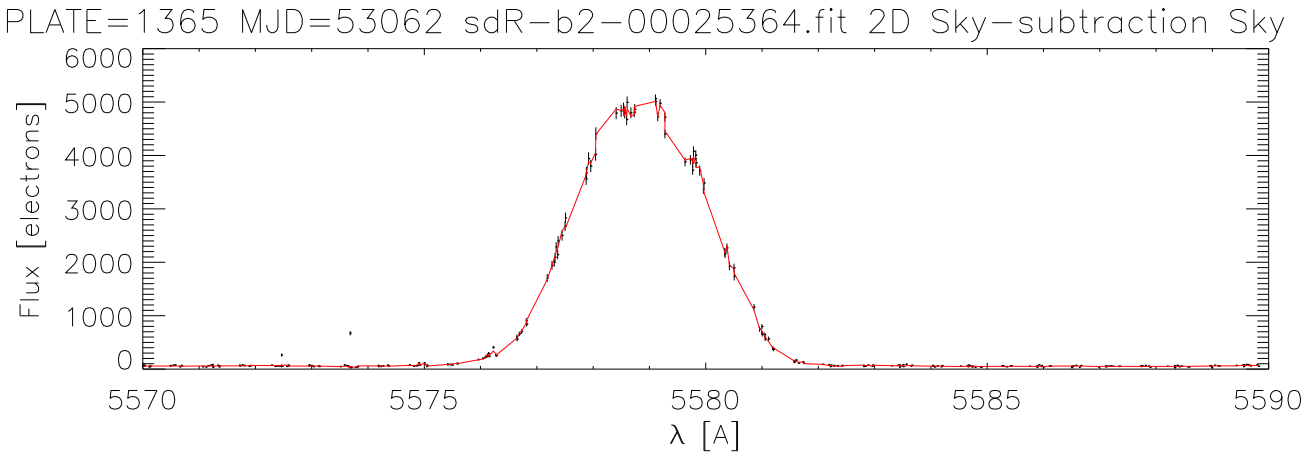

PLATE=1365 MJD=53062 sdR-b2-00025364.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

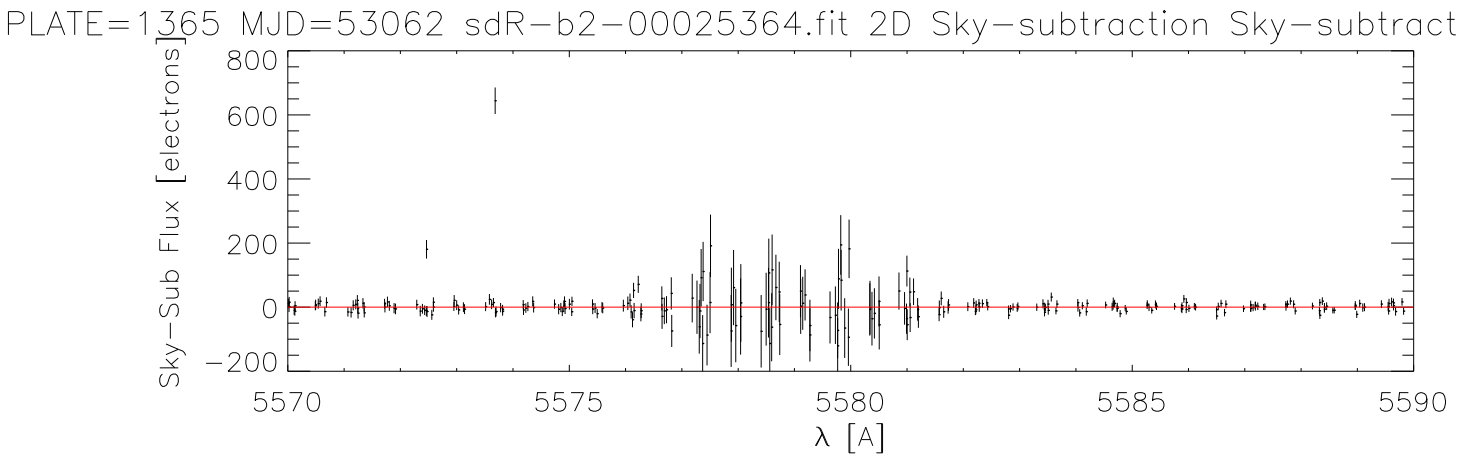

PLATE=1365 MJD=53062 sdR-b2-00025364.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

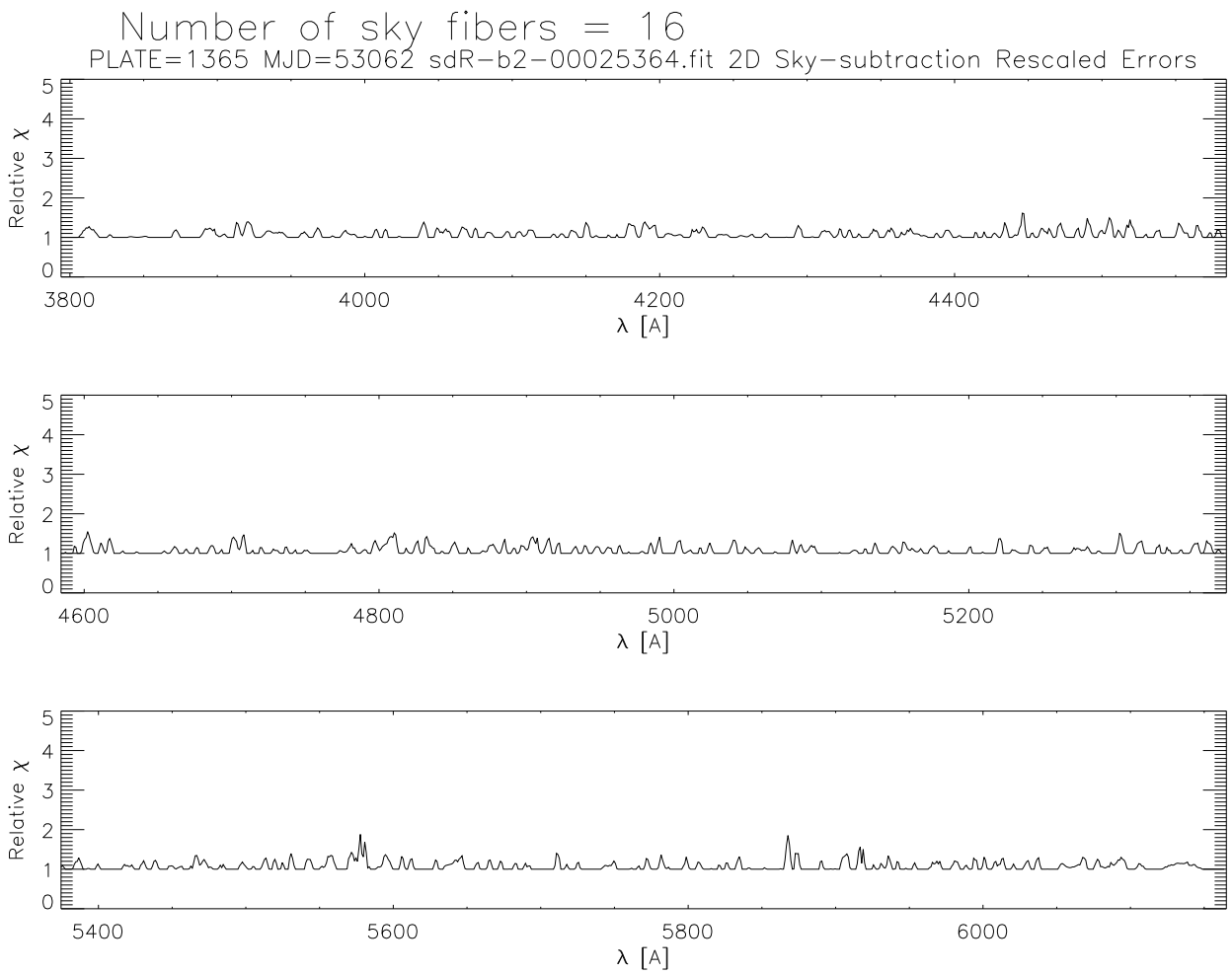

PLATE=1365 MJD=53062 sdR-b2-00025364.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

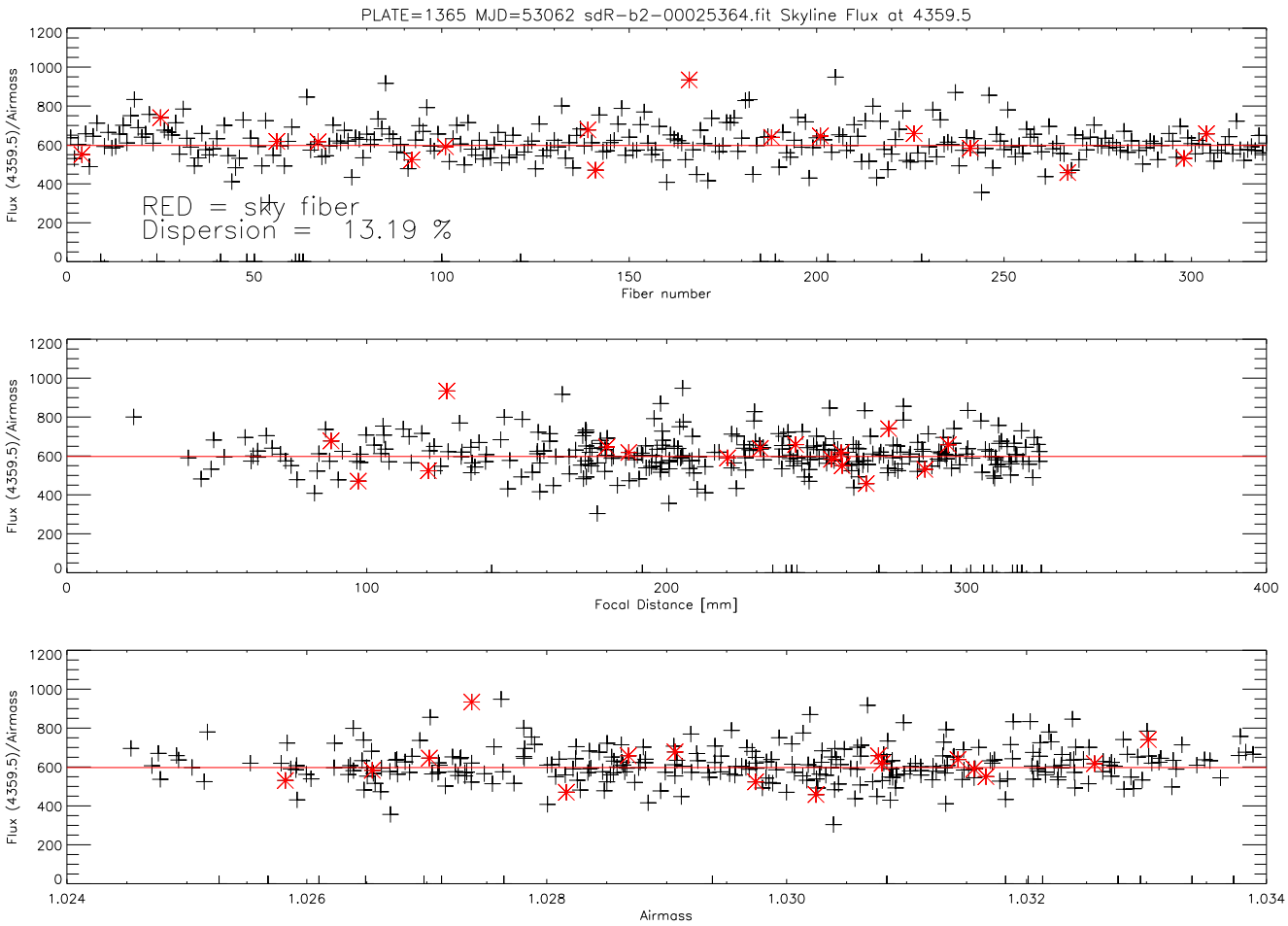

Number of sky fibers = 16
PLATE=1365 MJD=53062 sdR-b2-00025364.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

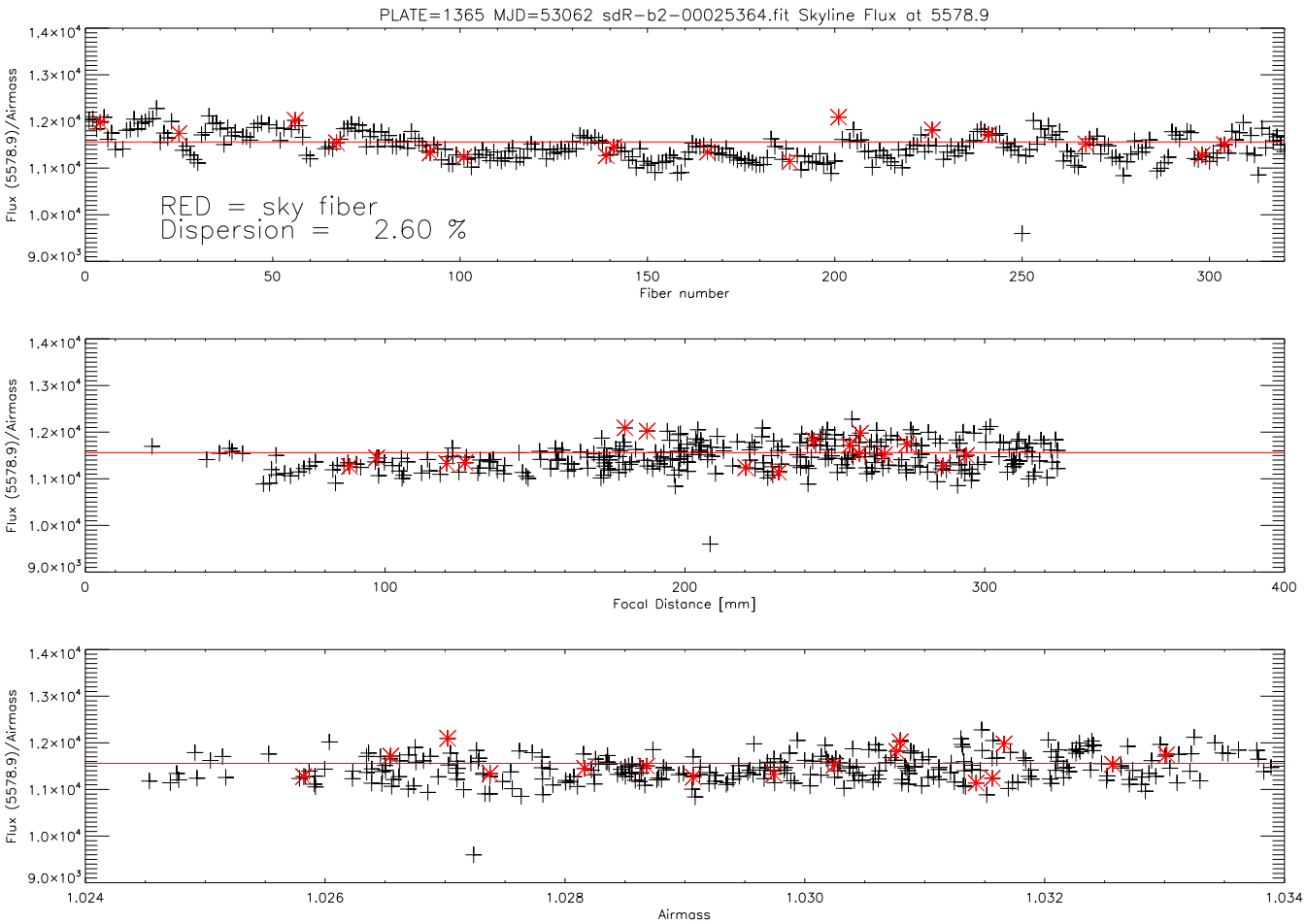

PLATE=1365 MJD=53062 sdR-b2-00025364.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

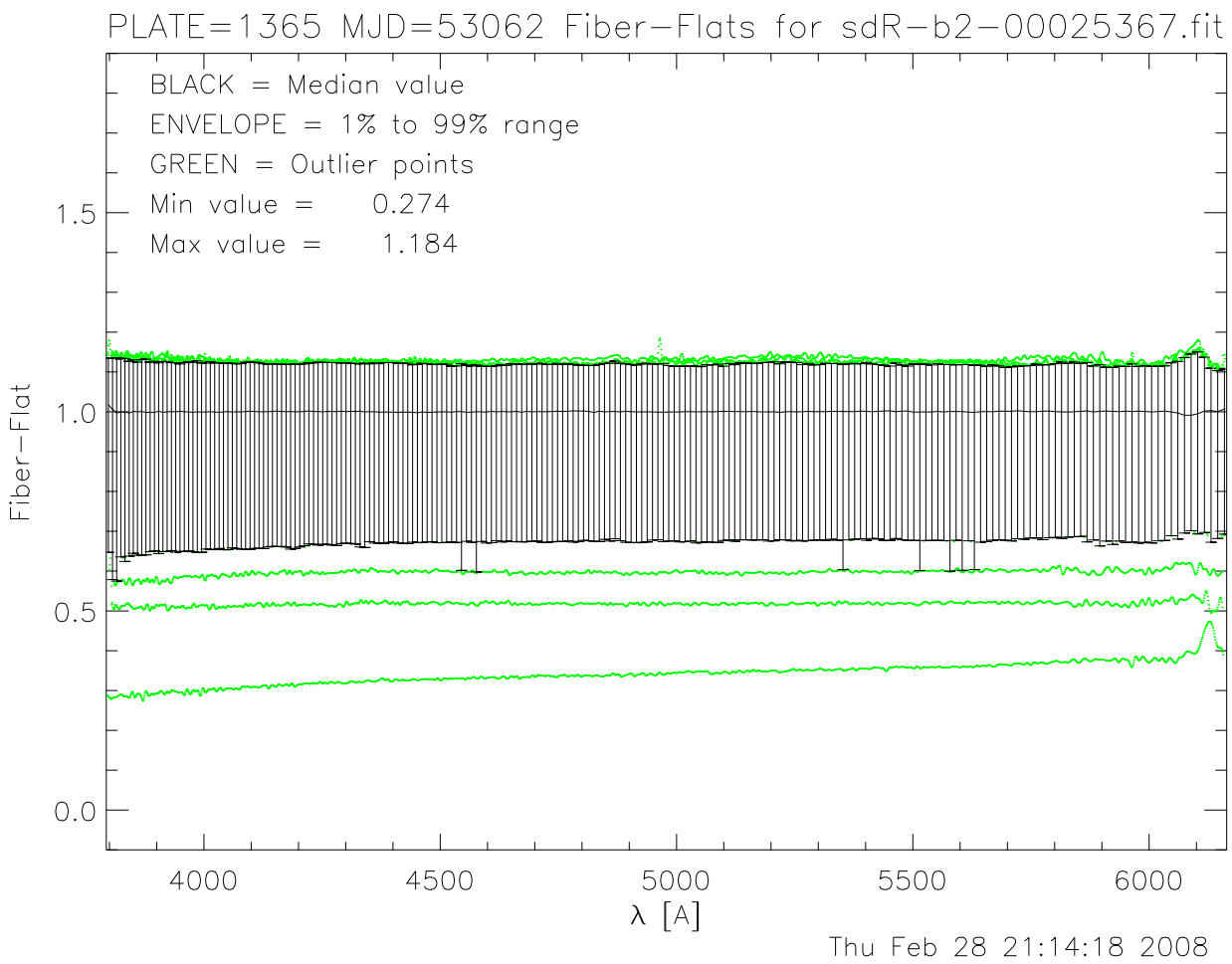

PLATE=1365 MJD=53062 sdR-b2-00025364.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

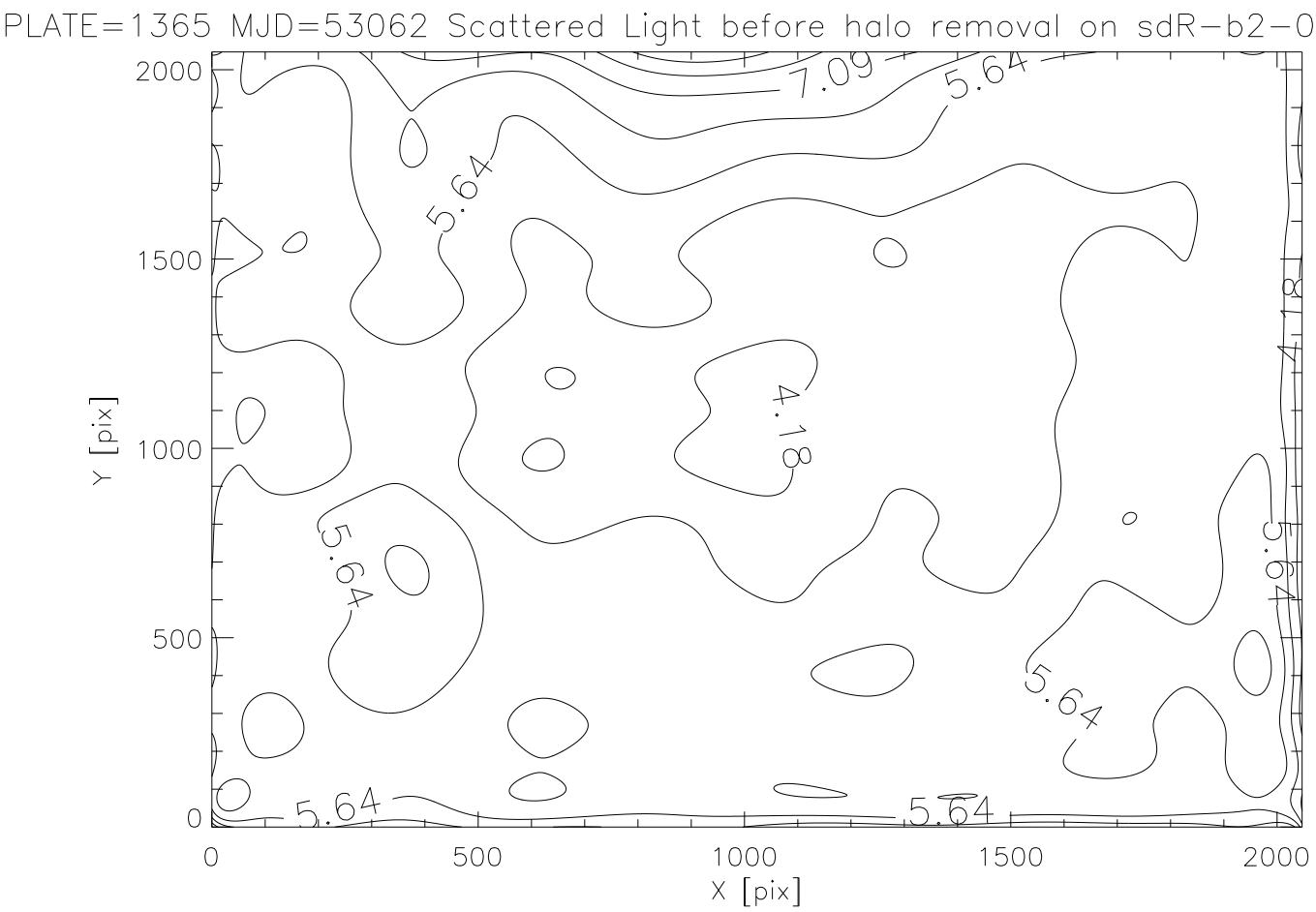

PLATE=1365 MJD=53062 sdR-b2-00025364.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

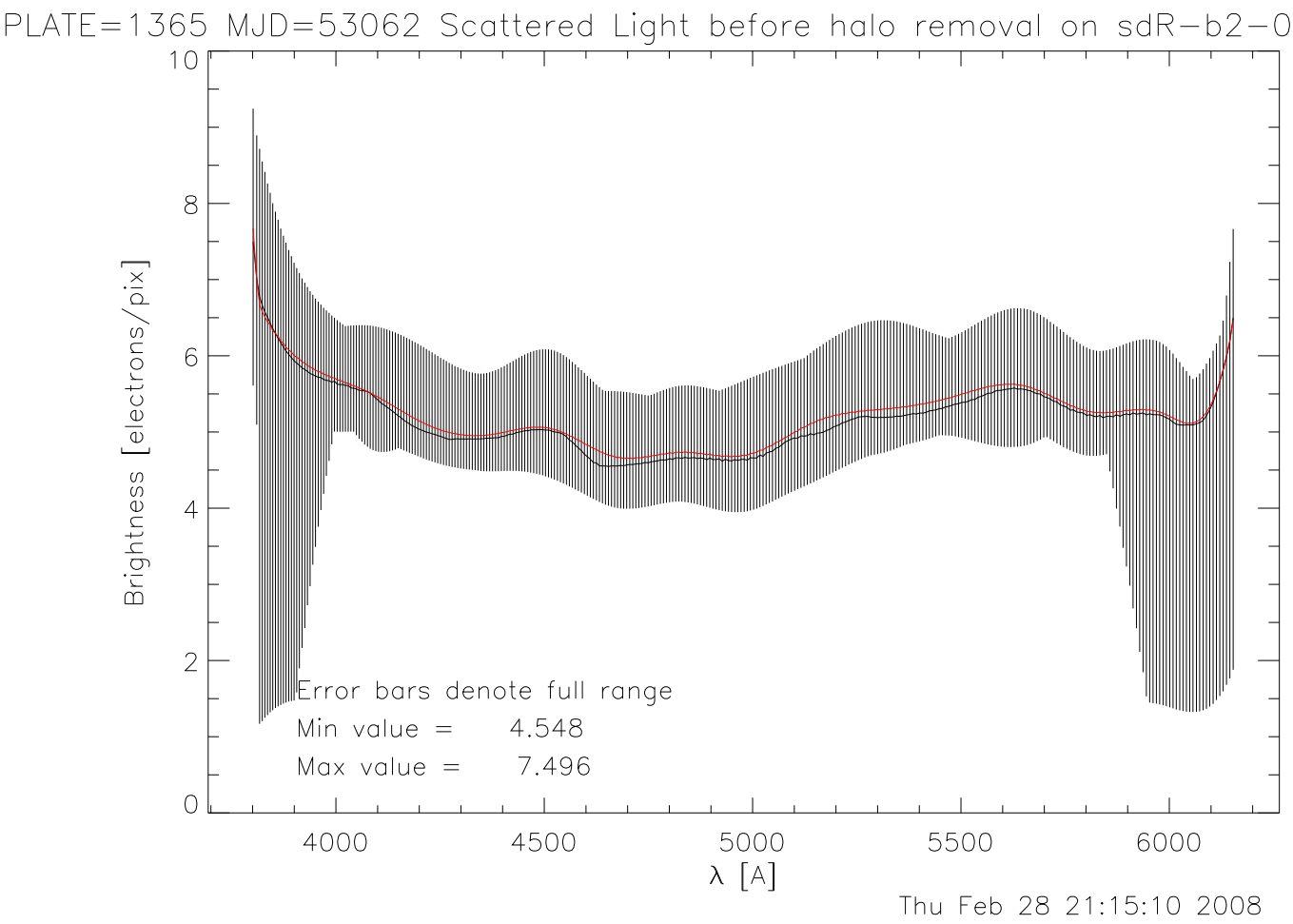

Number of sky fibers = 16
PLATE=1365 MJD=53062 sdR-b2-00025364.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

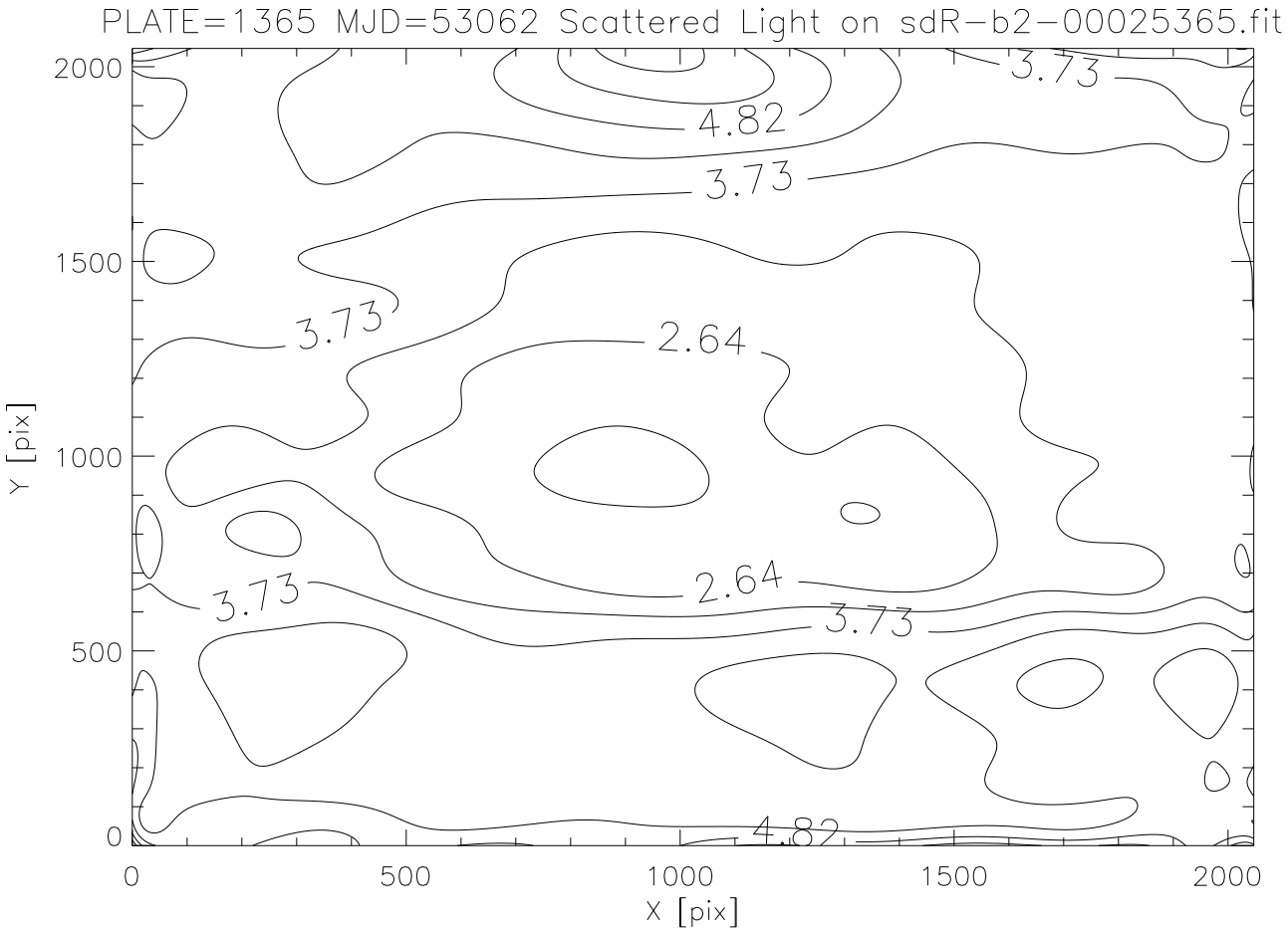

PLATE=1365 MJD=53062 sdR-b2-00025364.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.19 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

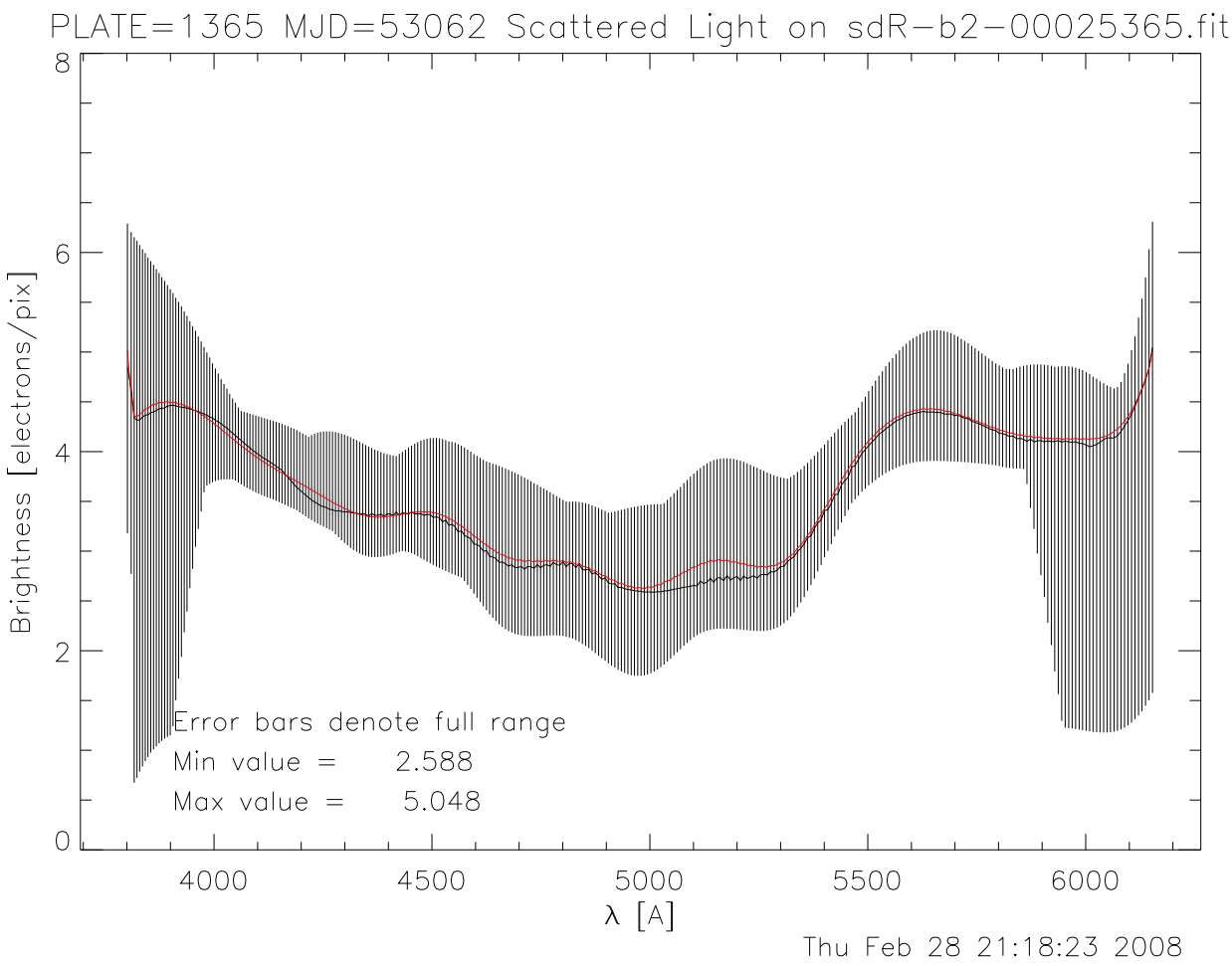

PLATE=1365 MJD=53062 sdR-b2-00025364.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.60 %
Fiber number
Focal Distance [mm]
Airmass

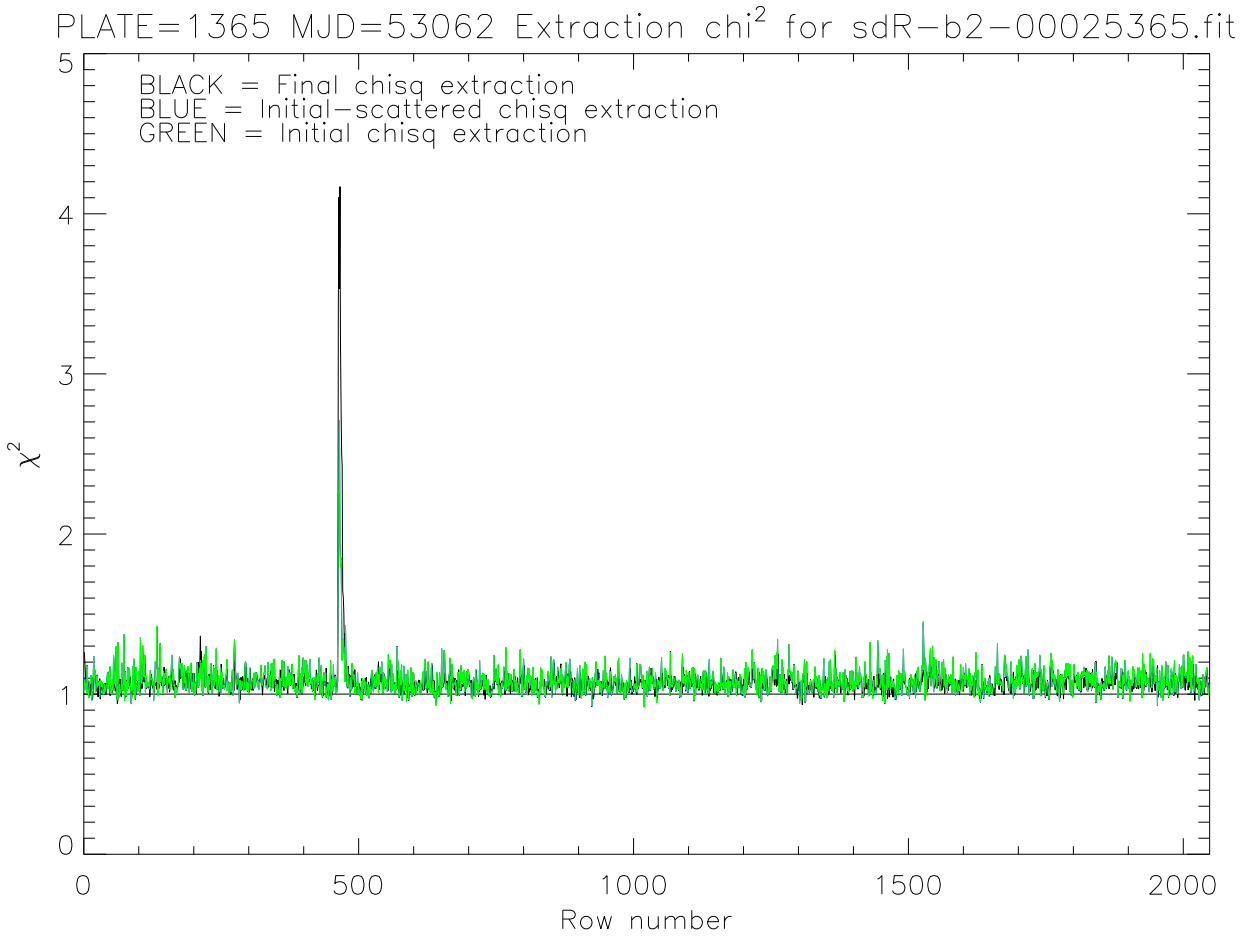

PLATE=1365 MJD=53062 Fiber-Flats for sdR-b2-00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.274
Max value = 1.184
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 21:14:18 2008

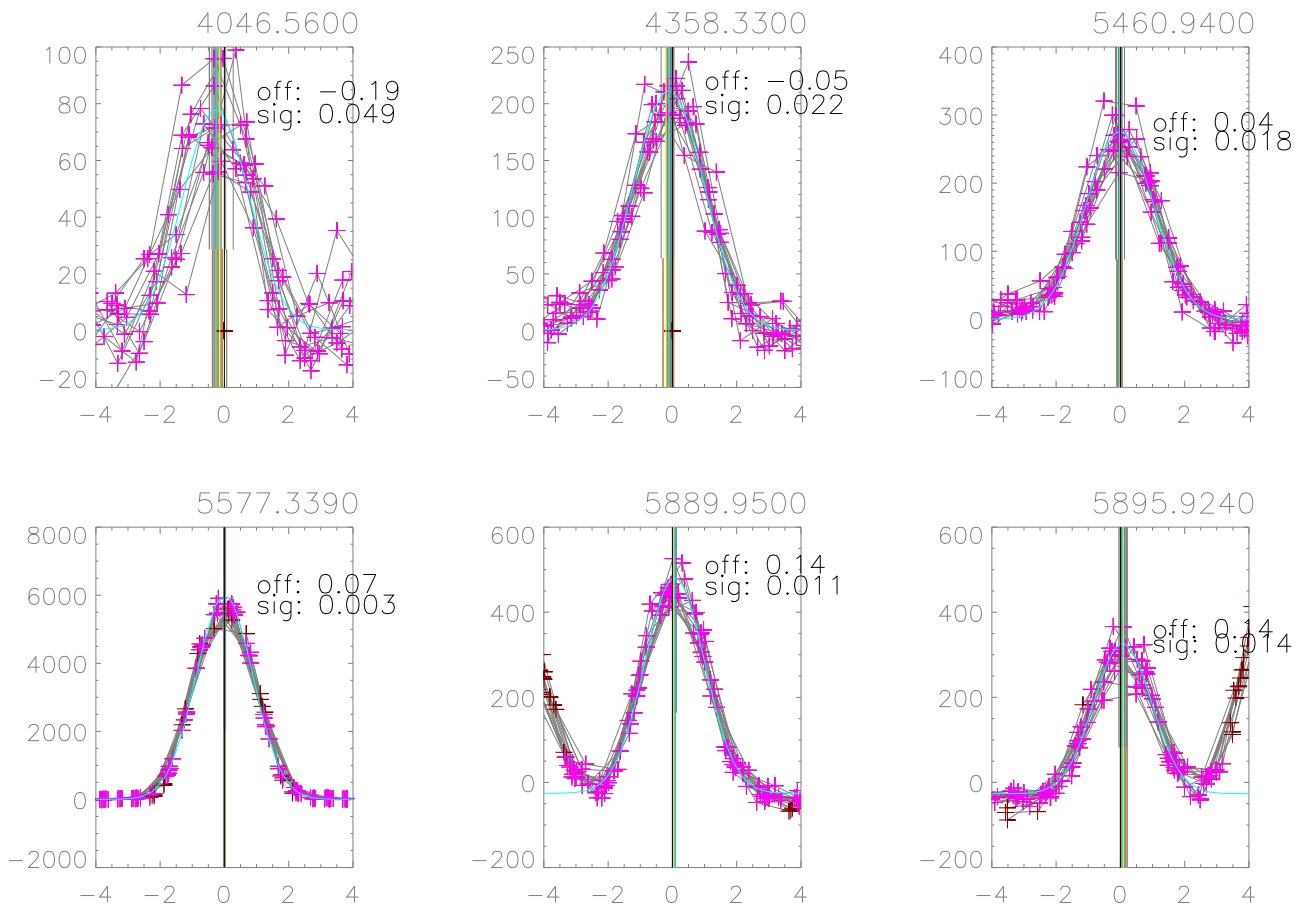

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b2-00025365.f
7.09
5.64
5.64
4.18
5.64
5.64
5.64
5.64
5.64
0
0
0
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

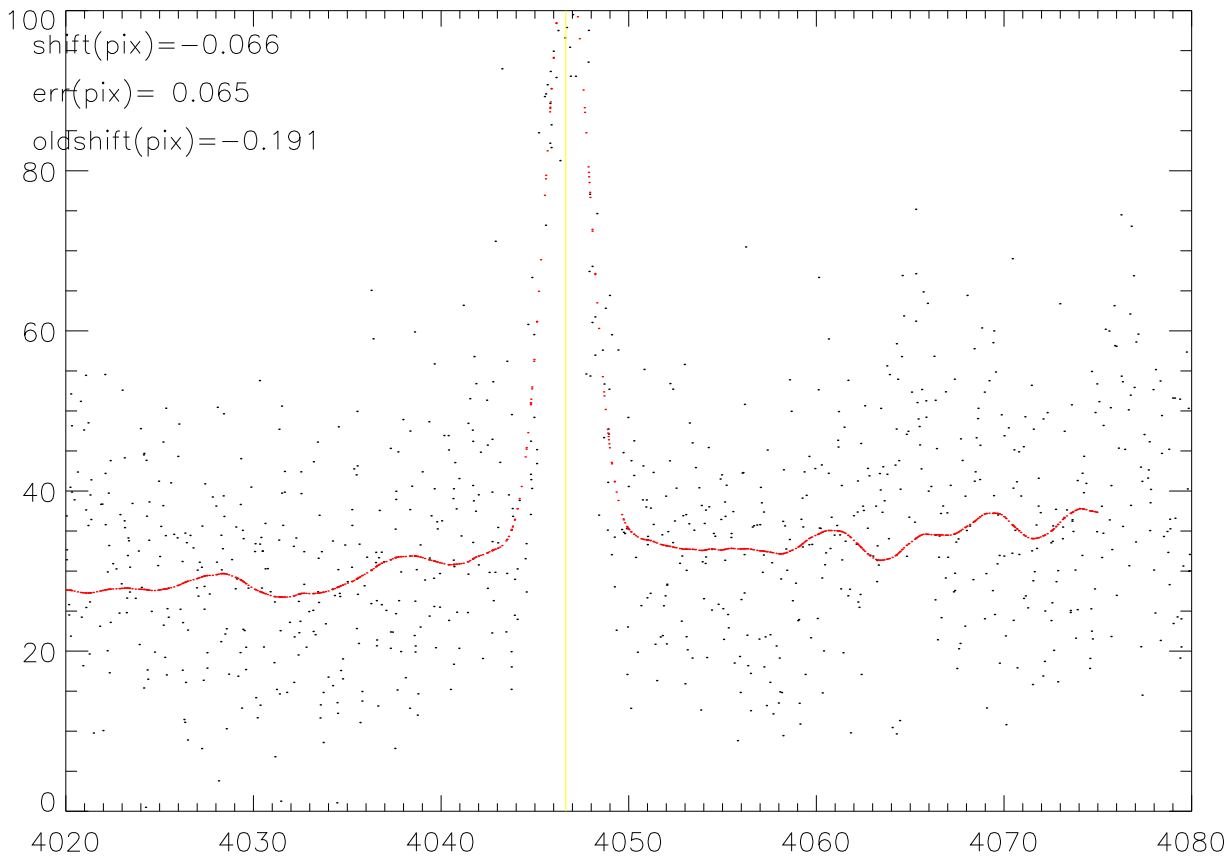

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b2-00025365.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.548
Max value = 7.496
Thu Feb 28 21:15:10 2008

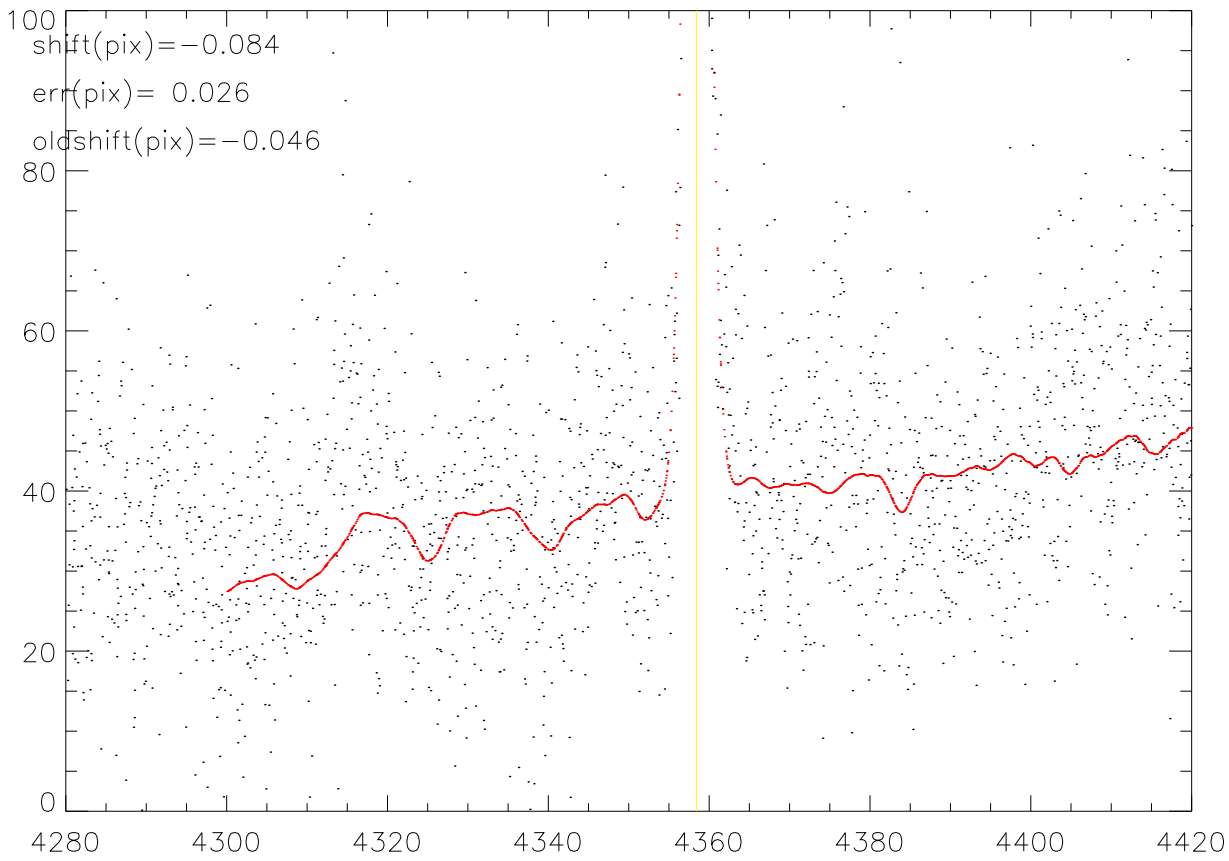

PLATE=1365 MJD=53062 Scattered Light on sdR-b2-00025365.fit
3.73
4.82
3.73
3.73
2.64
3.73
2.64
3.73
4.82
Y [pix]
X [pix]
0
500
1000
1500
2000

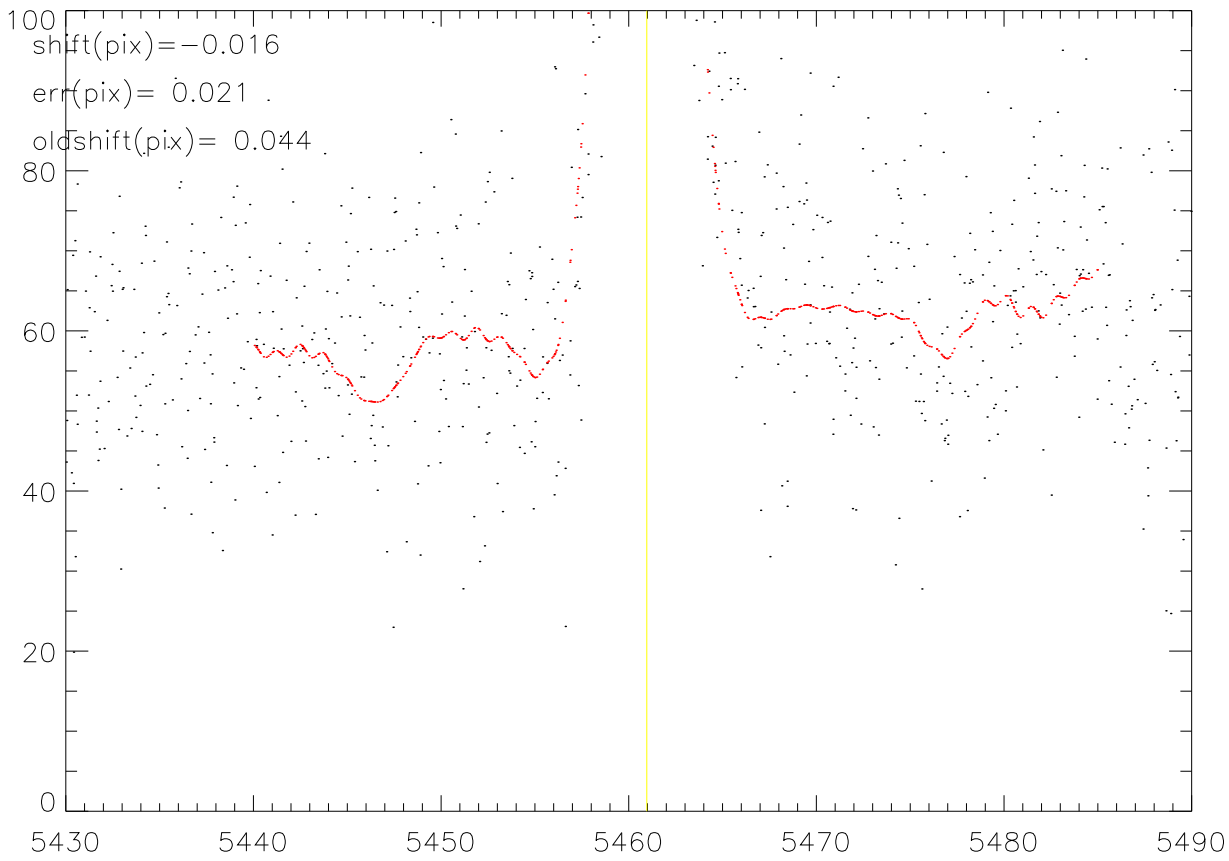

PLATE=1365 MJD=53062 Scattered Light on sdR-b2-00025365.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.588
Max value = 5.048
Thu Feb 28 21:18:23 2008

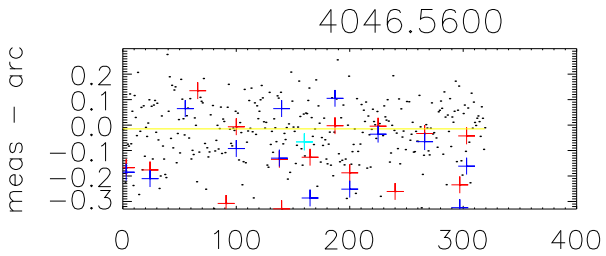

PLATE=1365 MJD=53062 Extraction chi^2 for sdR-b2-00025365.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

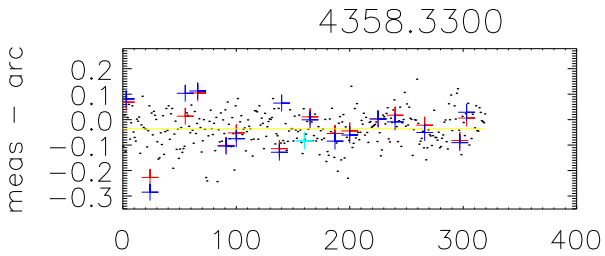

4046.5600
off: −0.19
sig: 0.049
4358.3300
off: −0.05
sig: 0.022
5460.9400
off: 0.04
sig: 0.018
5577.3390
off: 0.07
sig: 0.003
5889.9500
off: 0.14
sig: 0.011
5895.9240
off: 0.14
sig: 0.014

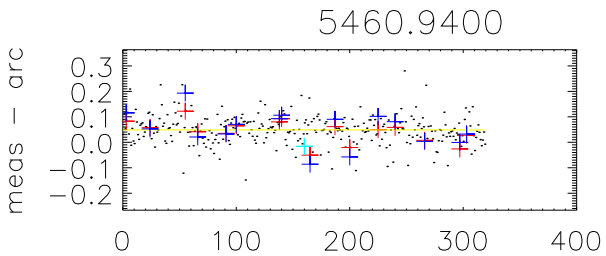

shift(pix)=−0.066
err(pix)= 0.065
oldshift(pix)=−0.191
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

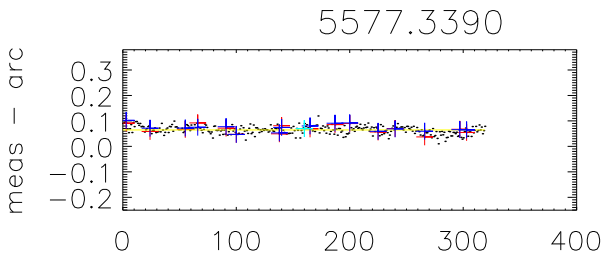

shift(pix)=−0.084
err(pix)= 0.026
oldshift(pix)=−0.046
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

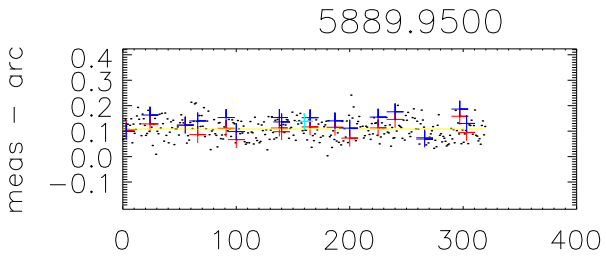

shift(pix)=−0.016
err(pix)= 0.021
oldshift(pix)= 0.044
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

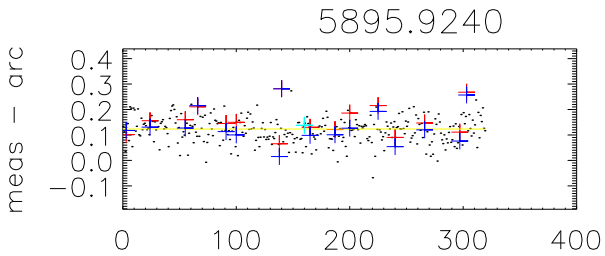

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

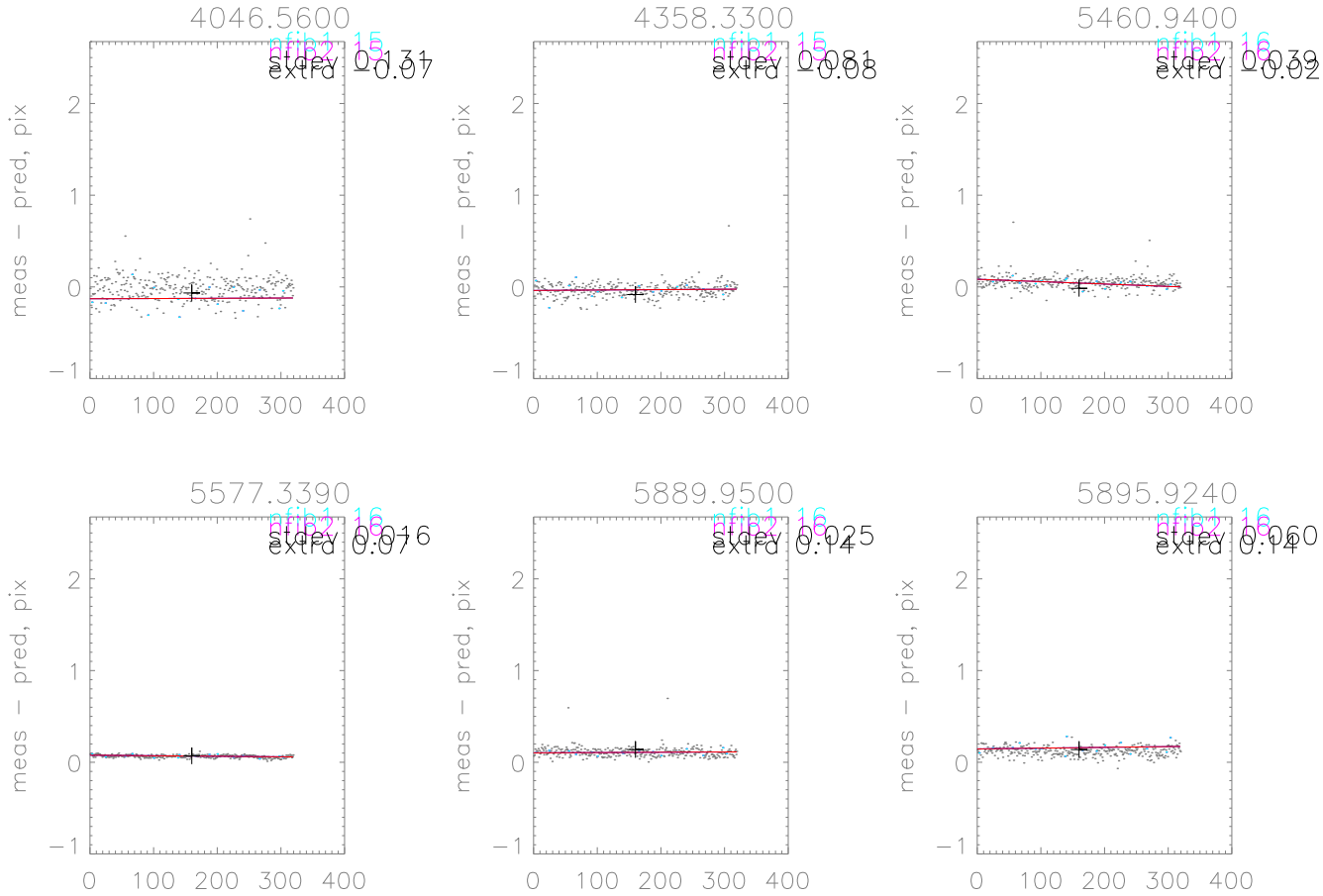

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

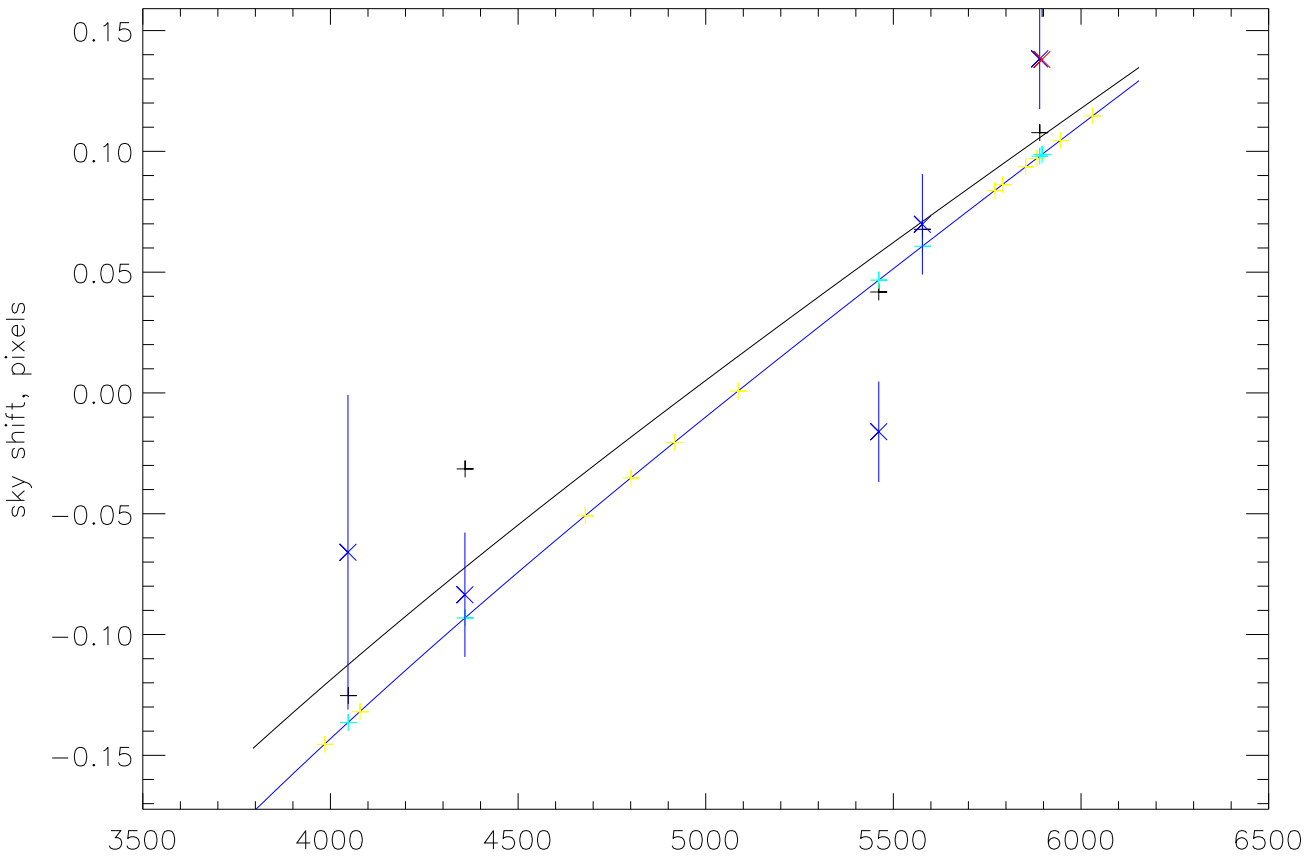

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

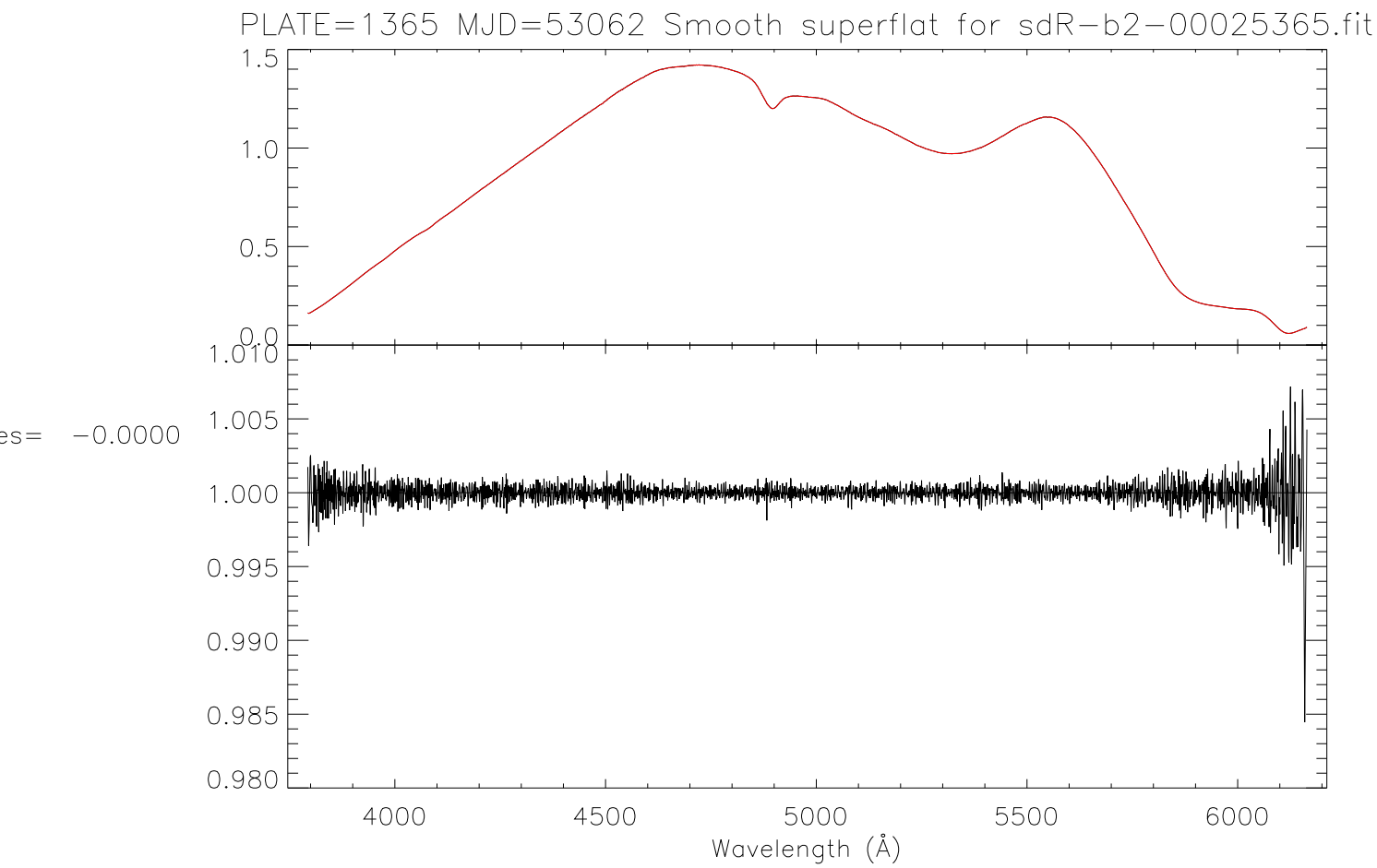

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

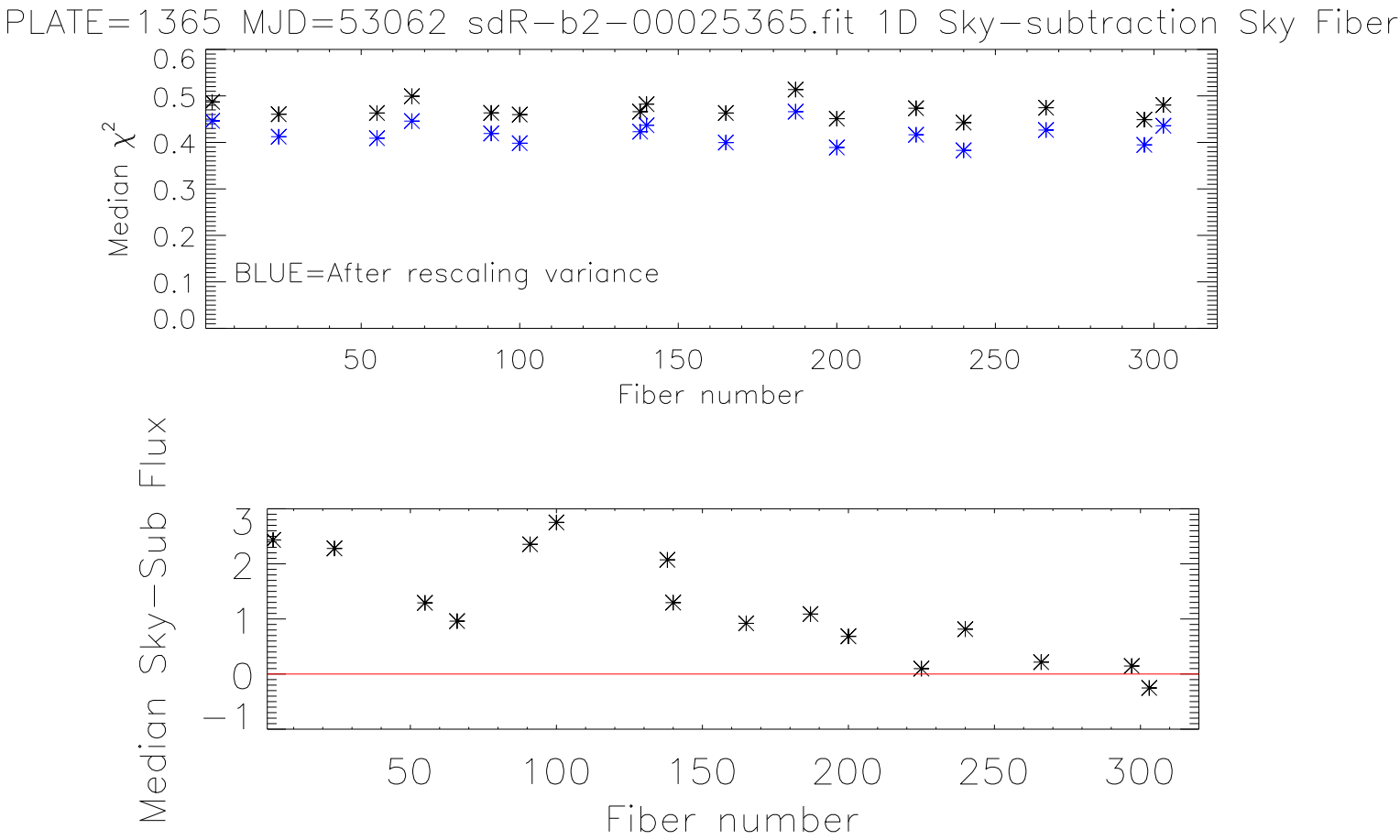

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

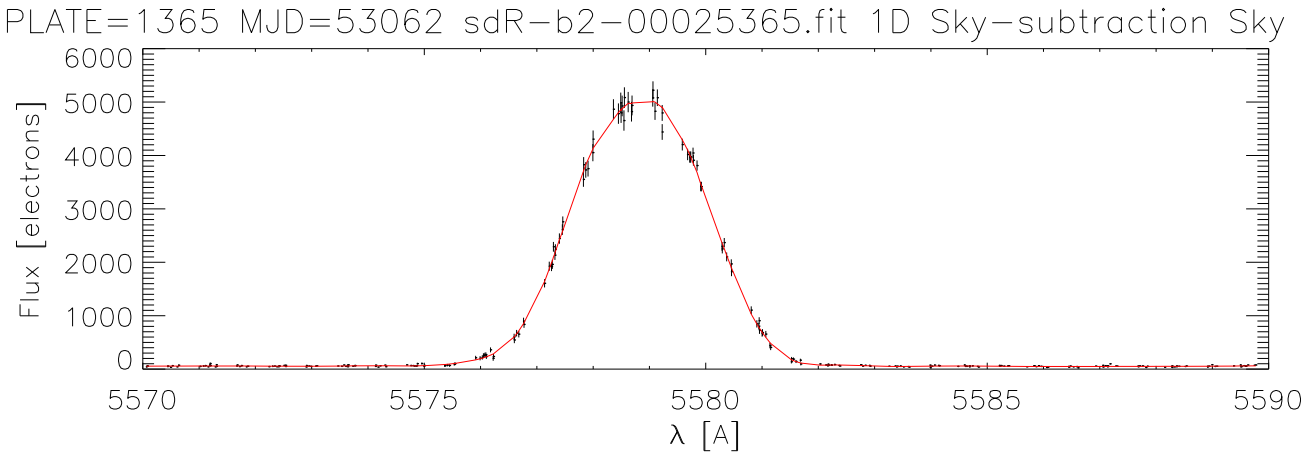

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

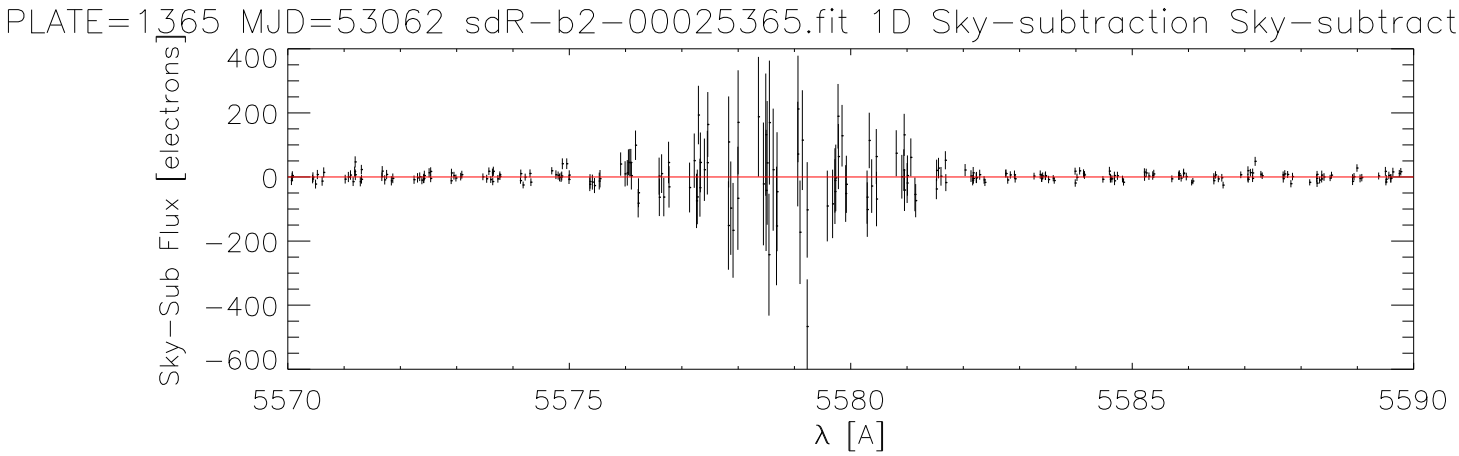

4046.5600
pfib1 15
pfib2 15
stdev 0.131
extrd 0.07
4358.3300
pfib1 15
pfib2 15
stdev 0.081
extrd 0.08
5460.9400
pfib1 16
pfib2 16
stdev 0.039
extrd 0.02
5577.3390
pfib1 16
pfib2 16
stdev 0.016
extrd 0.07
5889.9500
pfib1 16
pfib2 16
stdev 0.025
extrd 0.14
5895.9240
pfib1 16
pfib2 16
stdev 0.060
extrd 0.14
meas − pred, pix
2
1
0
−1
0
100
200
300
400

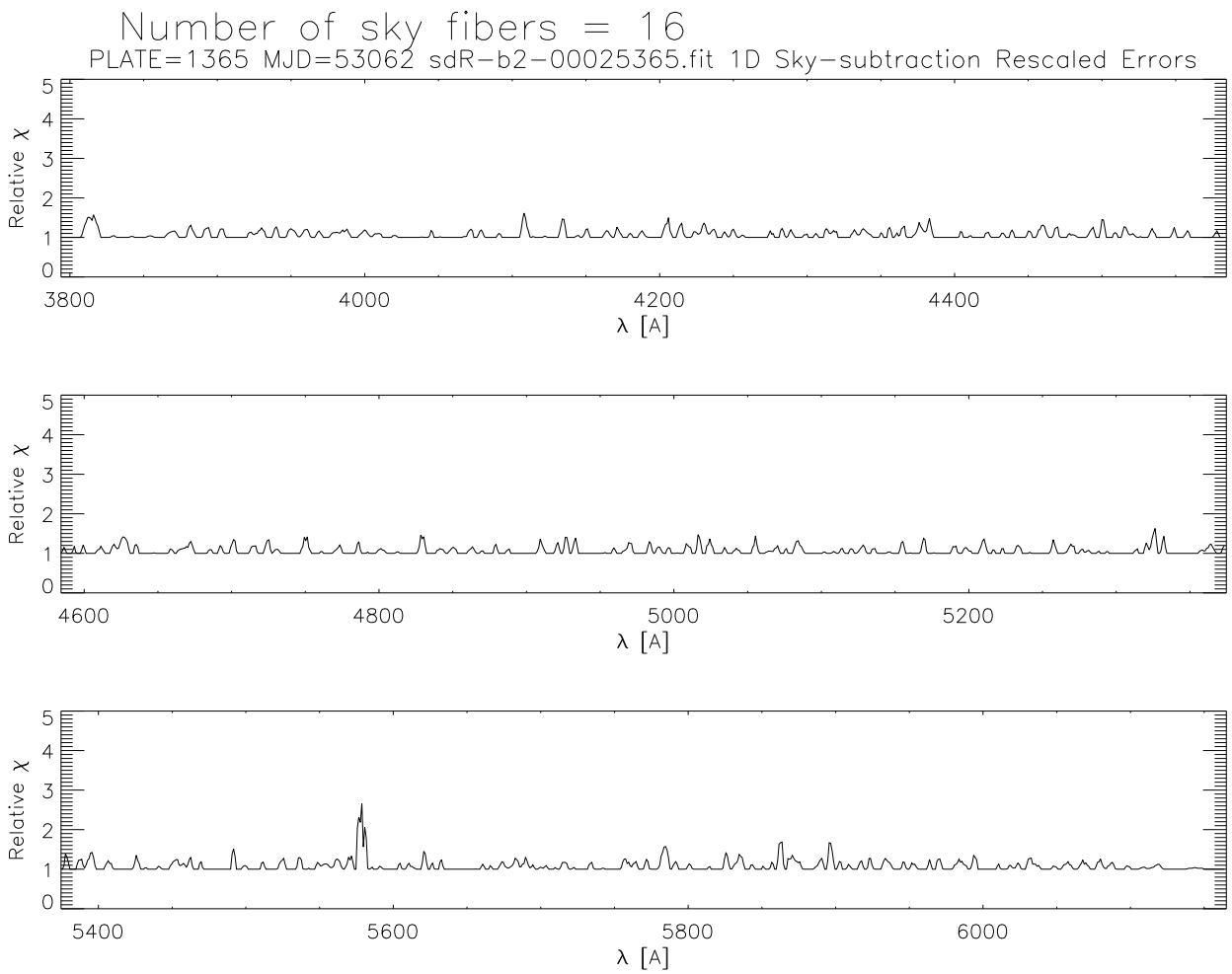

0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

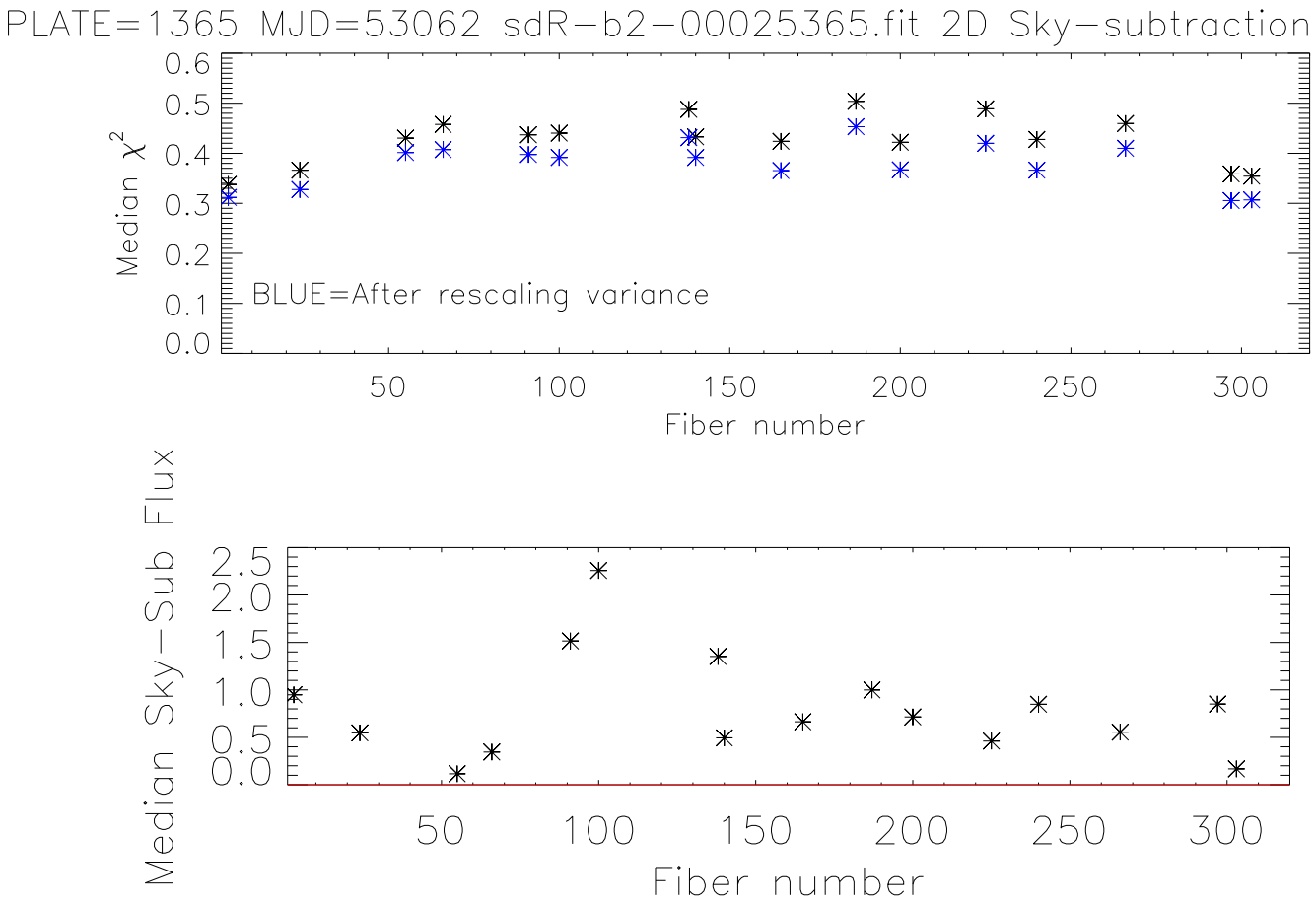

PLATE=1365 MJD=53062 Smooth superflat for sdR-b2-00025365.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

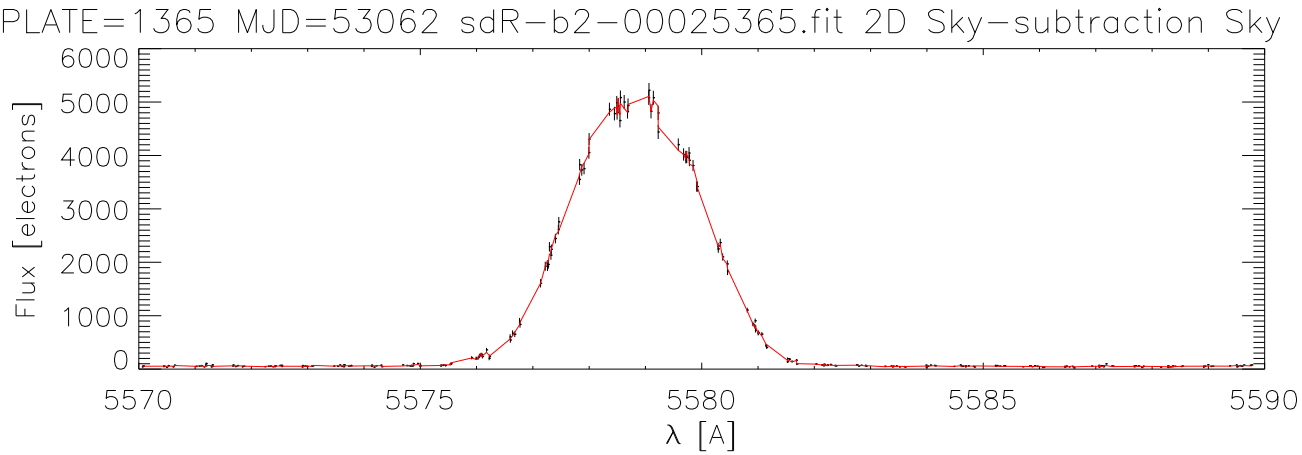

PLATE=1365 MJD=53062 sdR-b2-00025365.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

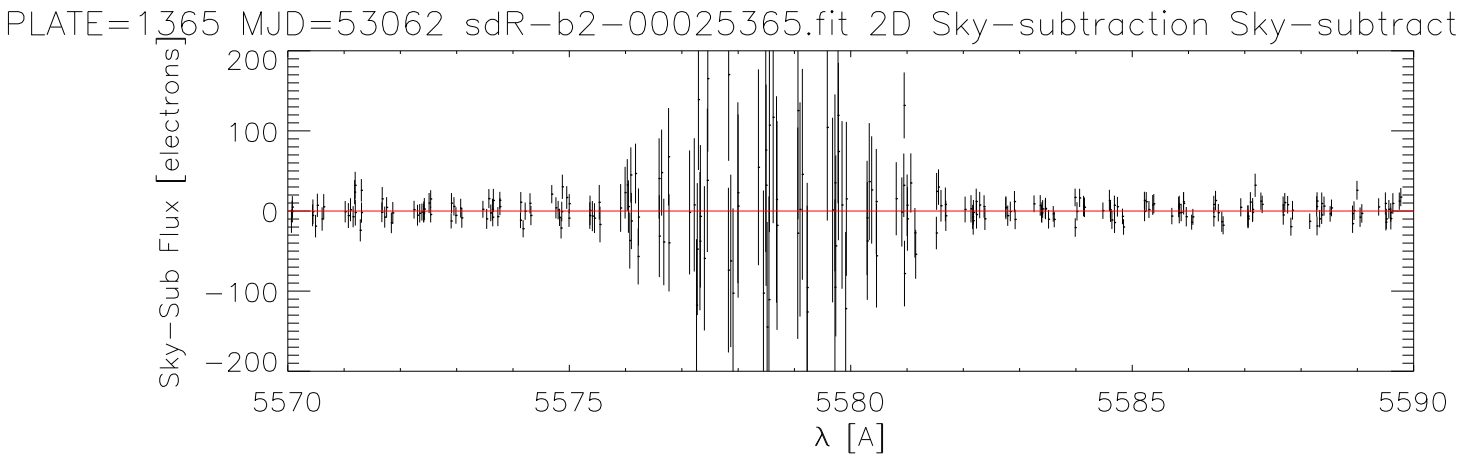

PLATE=1365 MJD=53062 sdR-b2-00025365.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

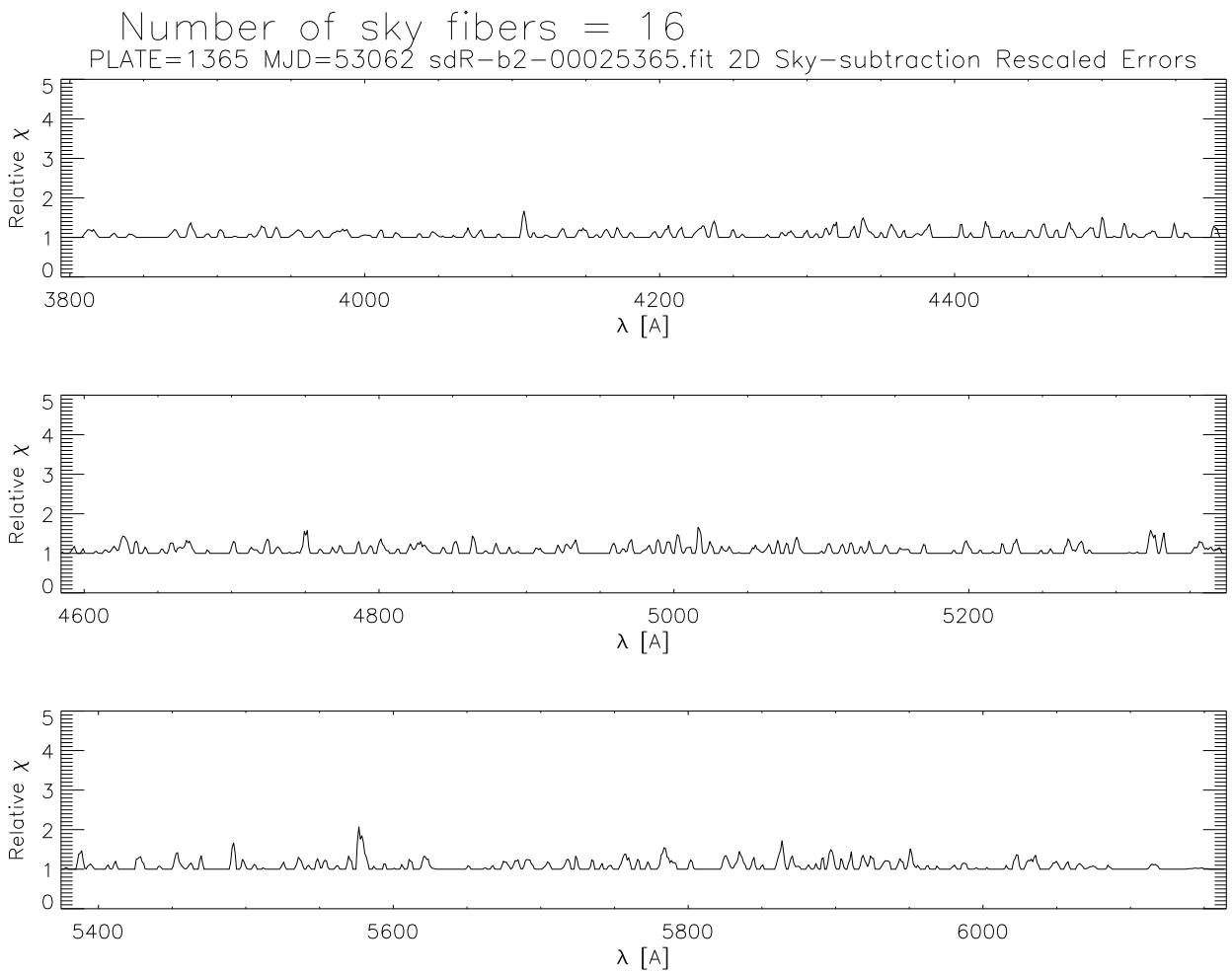

PLATE=1365 MJD=53062 sdR-b2-00025365.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

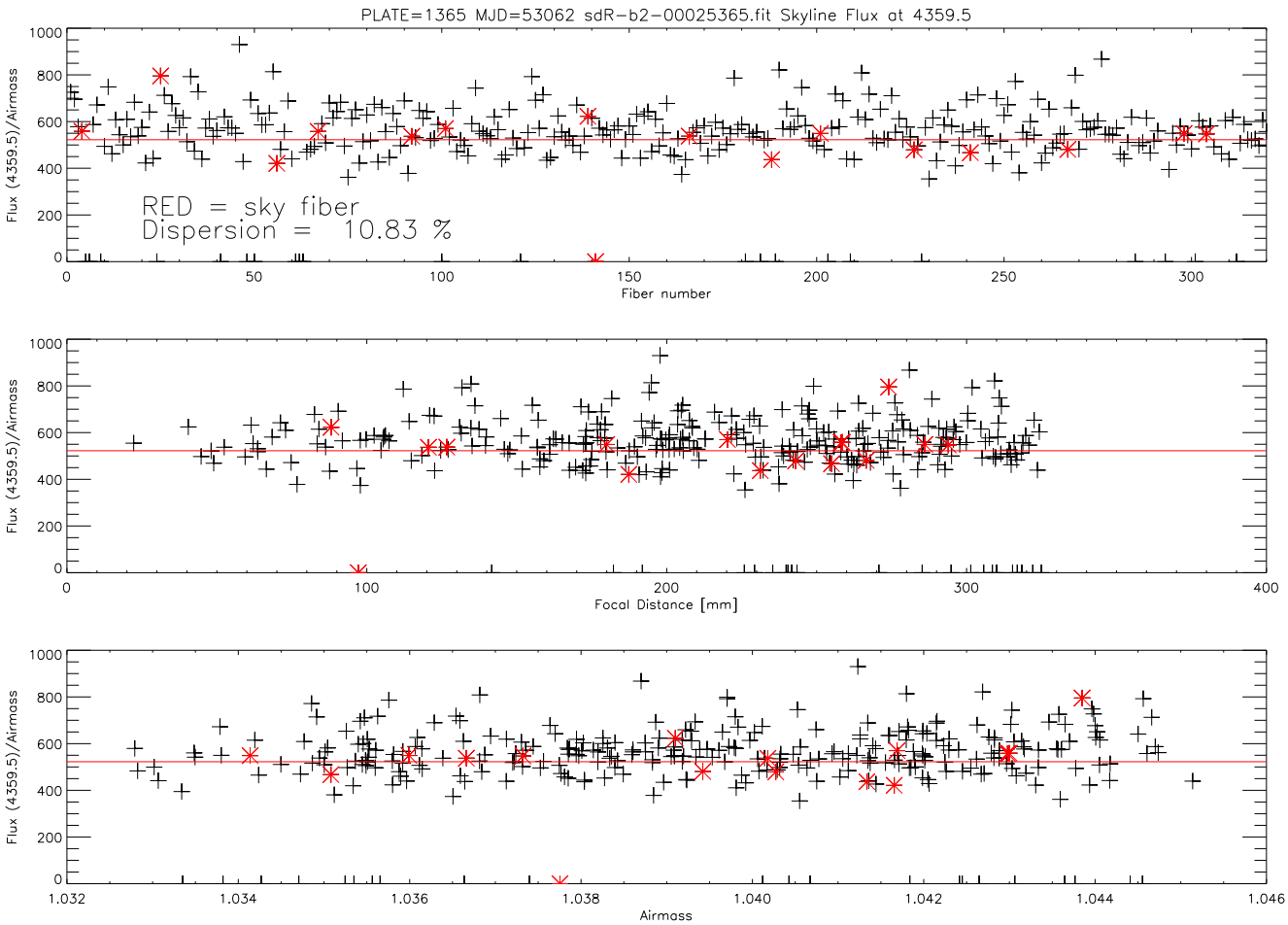

Number of sky fibers = 16
PLATE=1365 MJD=53062 sdR-b2-00025365.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

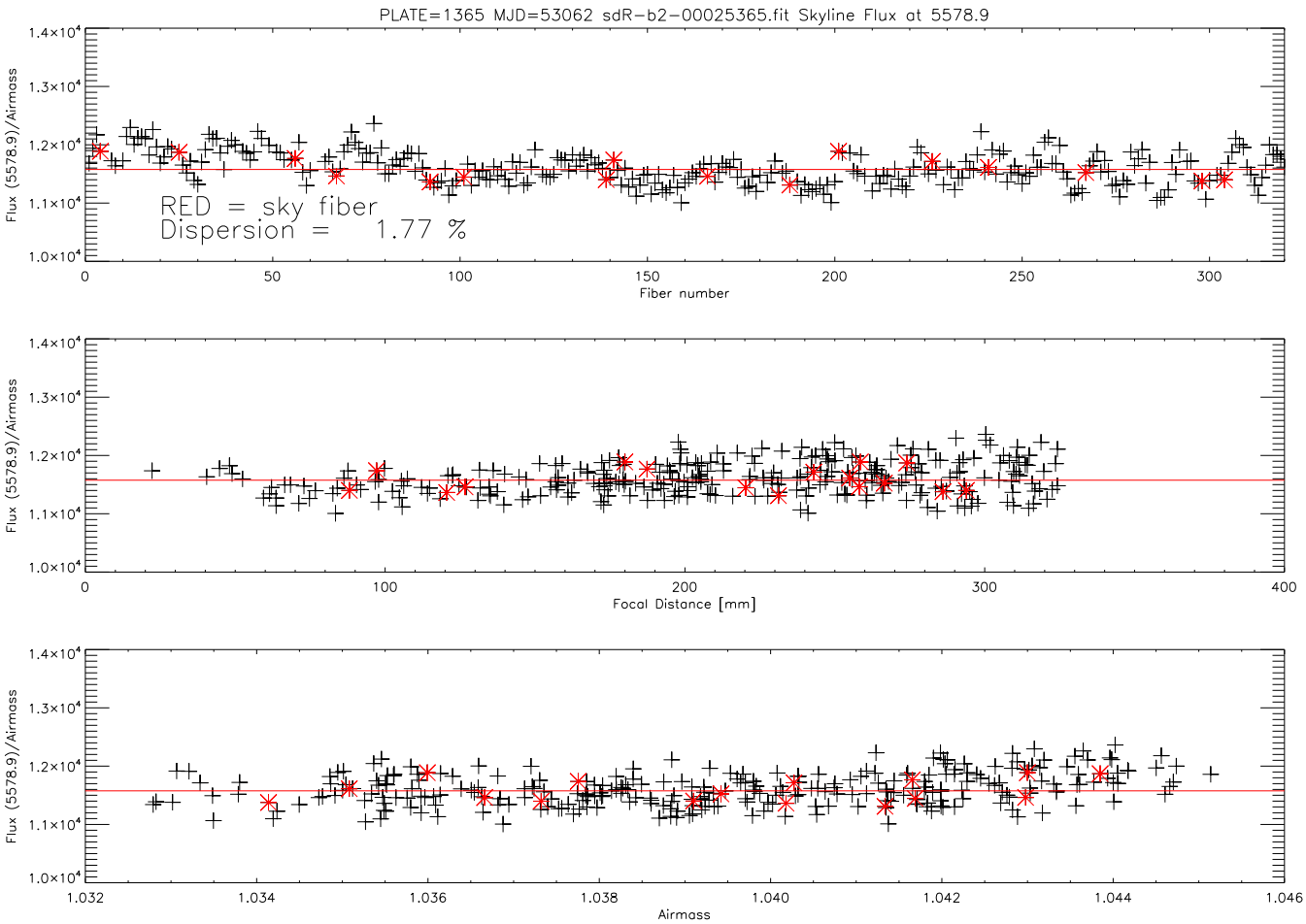

PLATE=1365 MJD=53062 sdR-b2-00025365.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

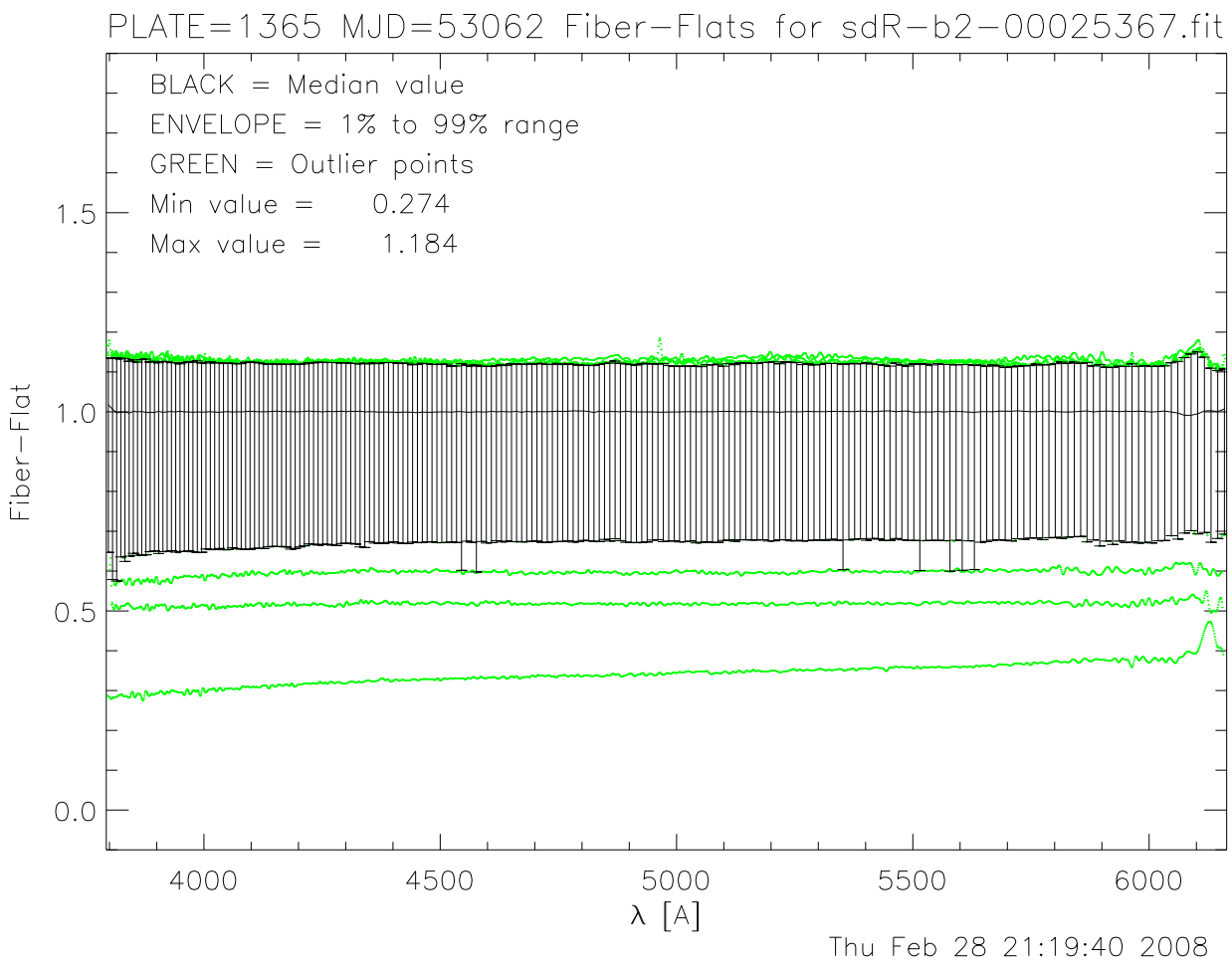

PLATE=1365 MJD=53062 sdR-b2-00025365.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

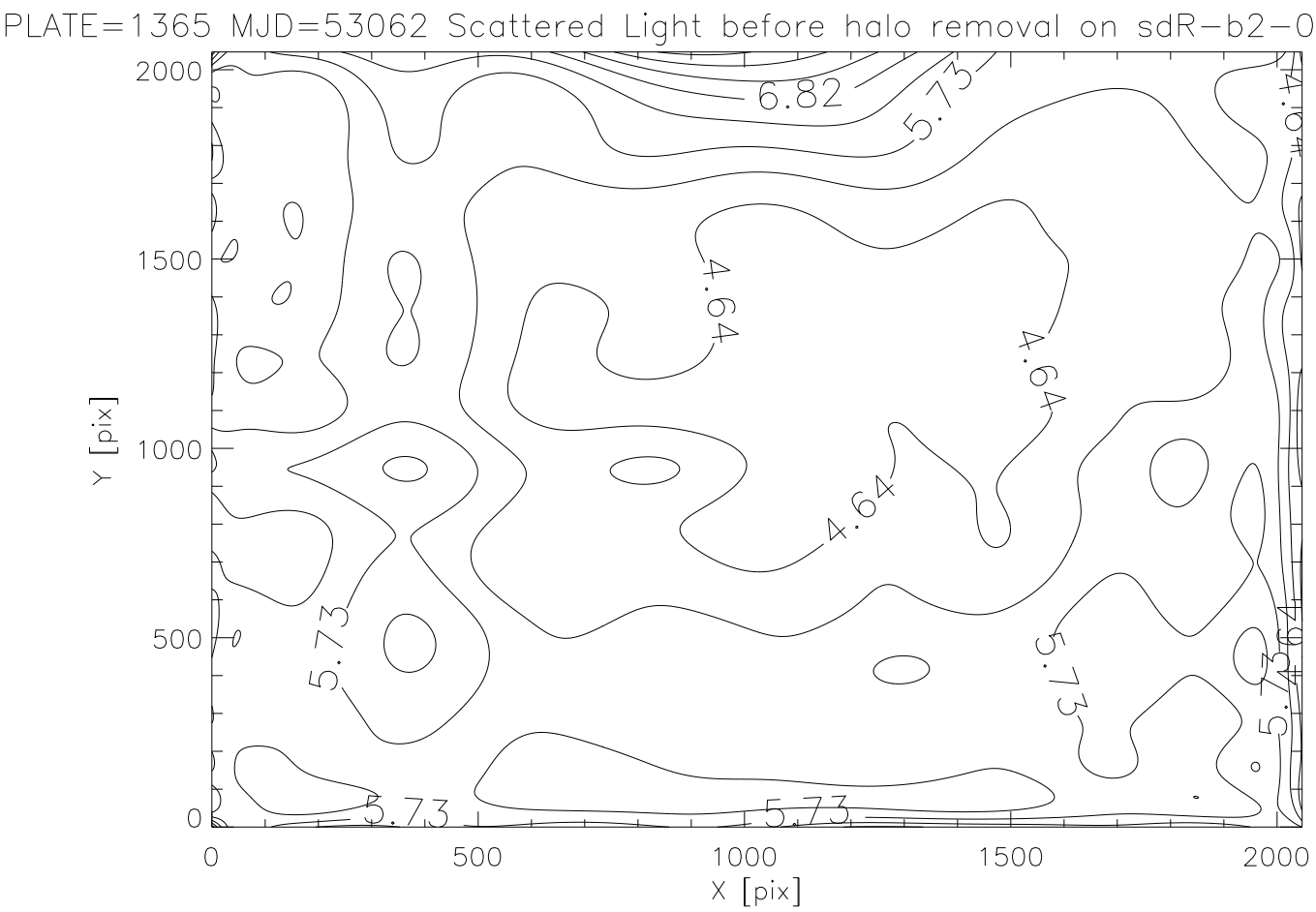

PLATE=1365 MJD=53062 sdR-b2-00025365.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

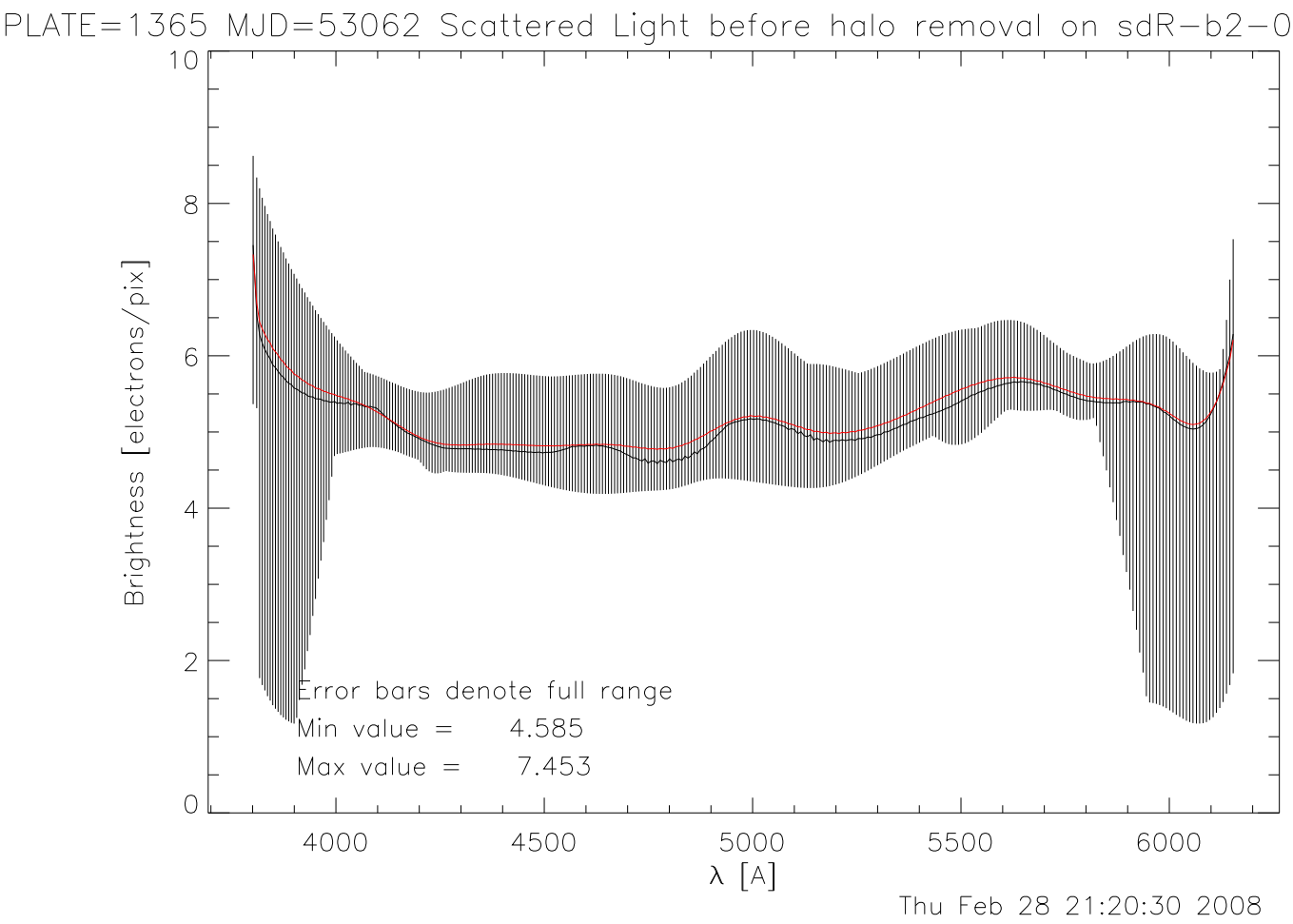

Number of sky fibers = 16
PLATE=1365 MJD=53062 sdR-b2-00025365.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

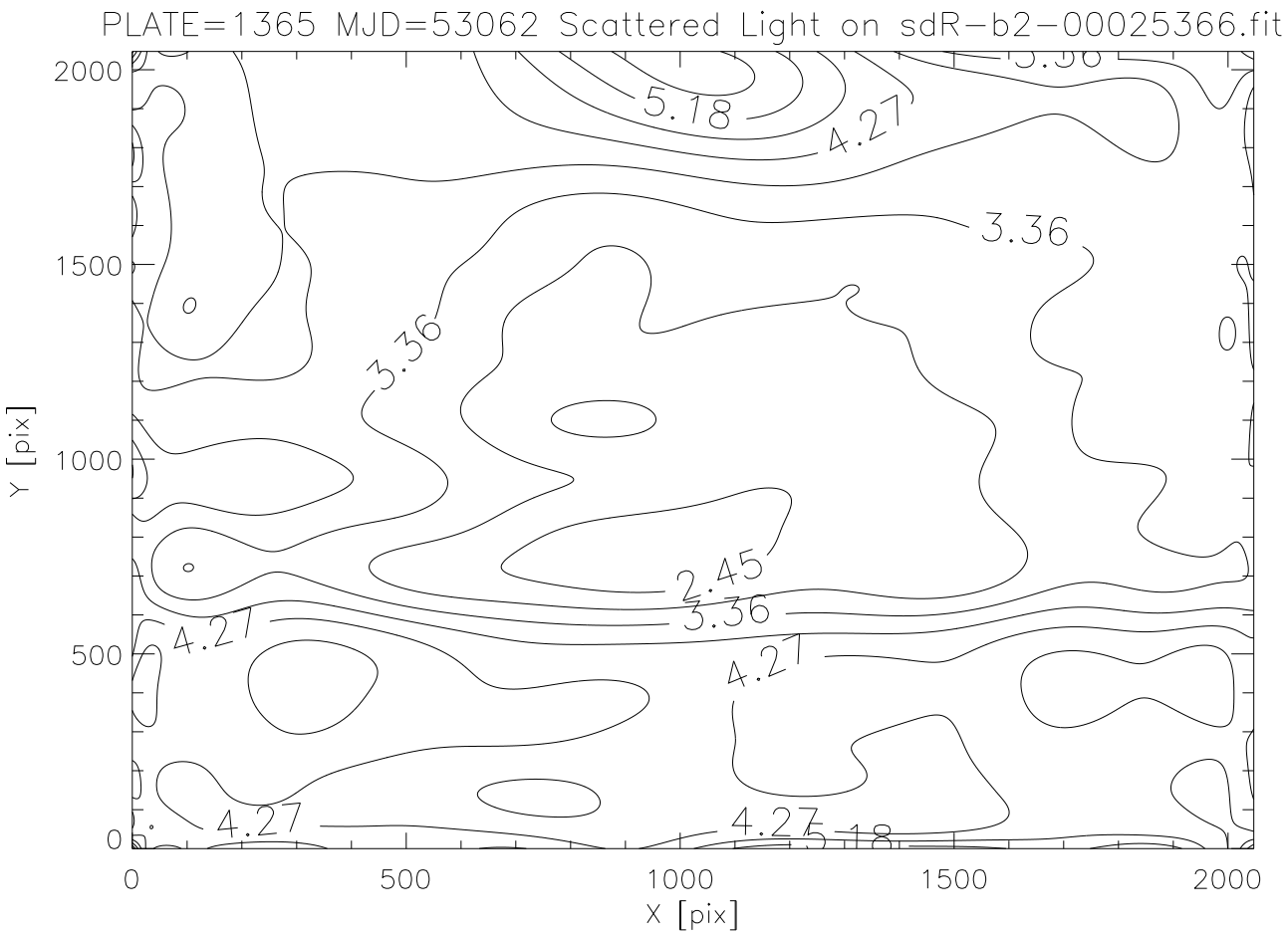

PLATE=1365 MJD=53062 sdR-b2-00025365.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.83 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

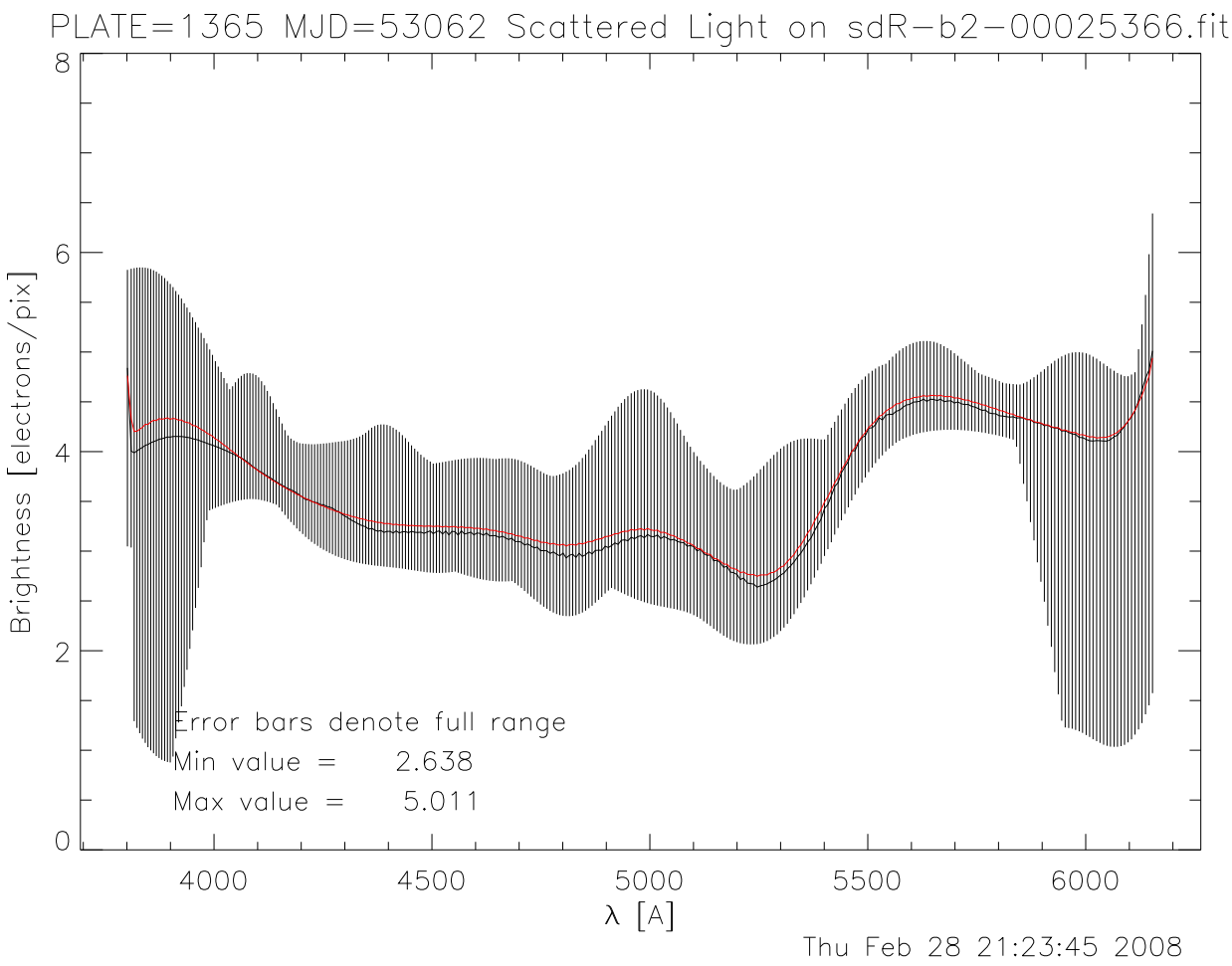

PLATE=1365 MJD=53062 sdR-b2-00025365.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.77 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

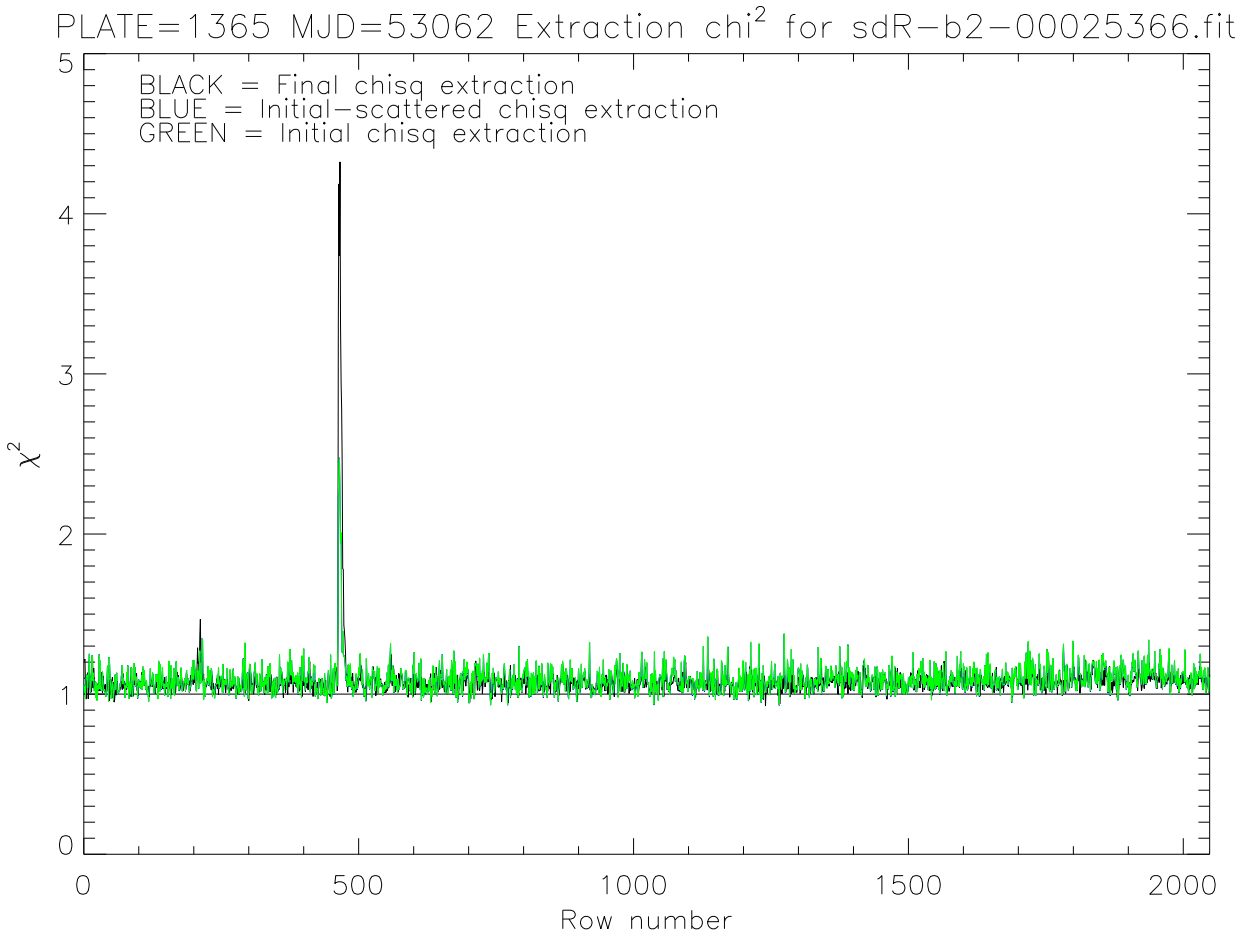

PLATE=1365 MJD=53062 Fiber−Flats for sdR−b2−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.274
Max value = 1.184
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Thu Feb 28 21:19:40 2008

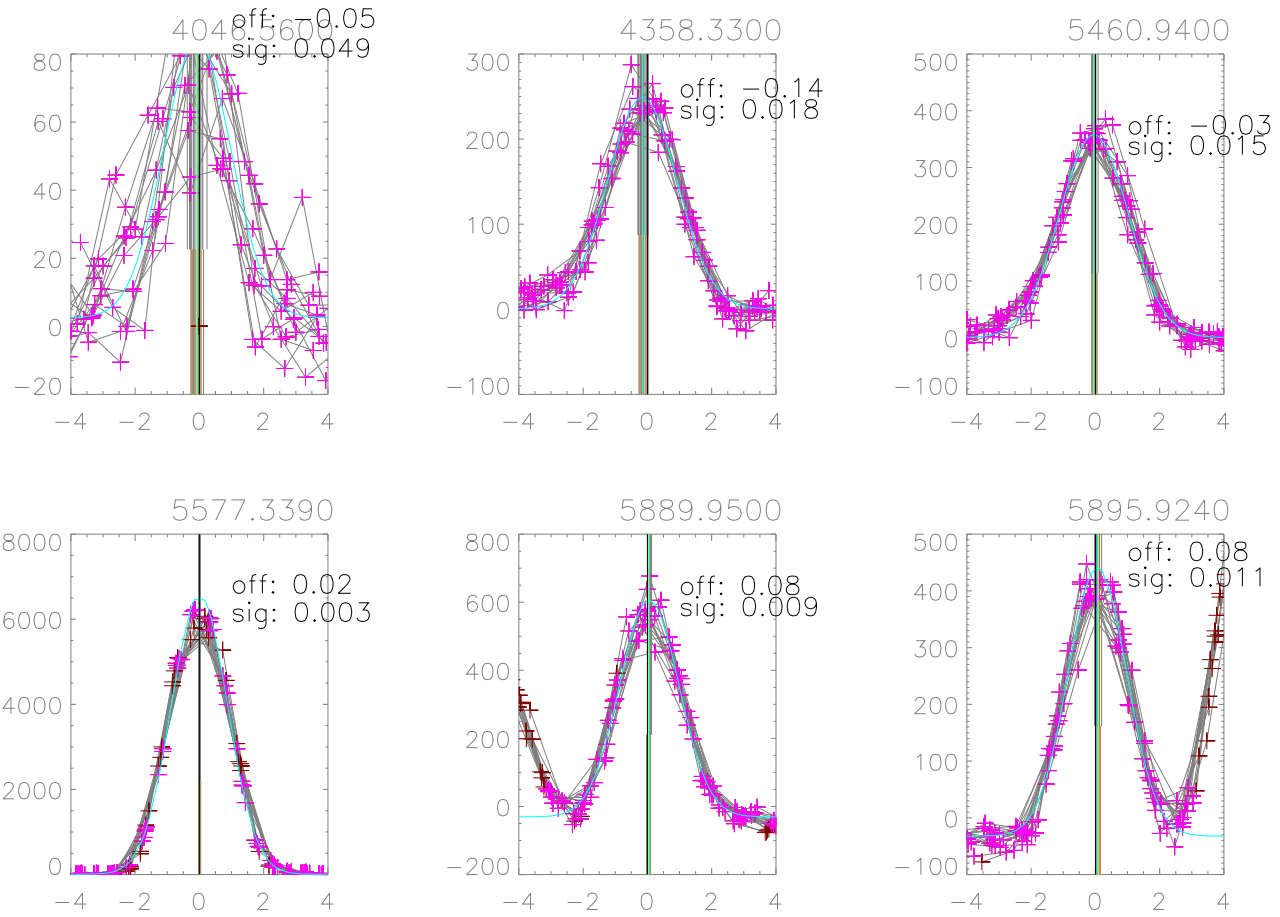

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b2-00025366.f
6.82
5.73
4.64
4.64
4.64
5.73
5.73
5.73
5.73
5.73
4.64
Y [pix]
X [pix]
0
500
1000
1500
2000

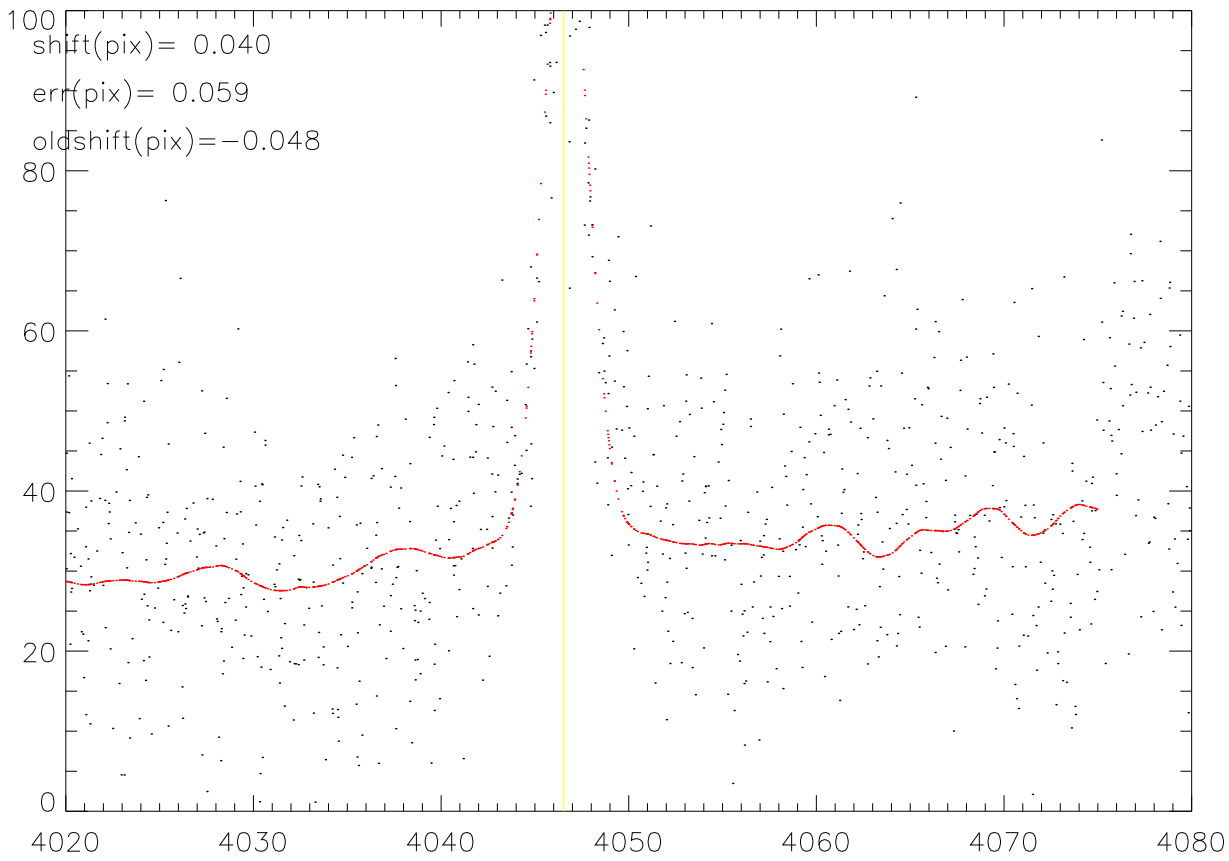

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-b2-00025366.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.585
Max value = 7.453
Thu Feb 28 21:20:30 2008

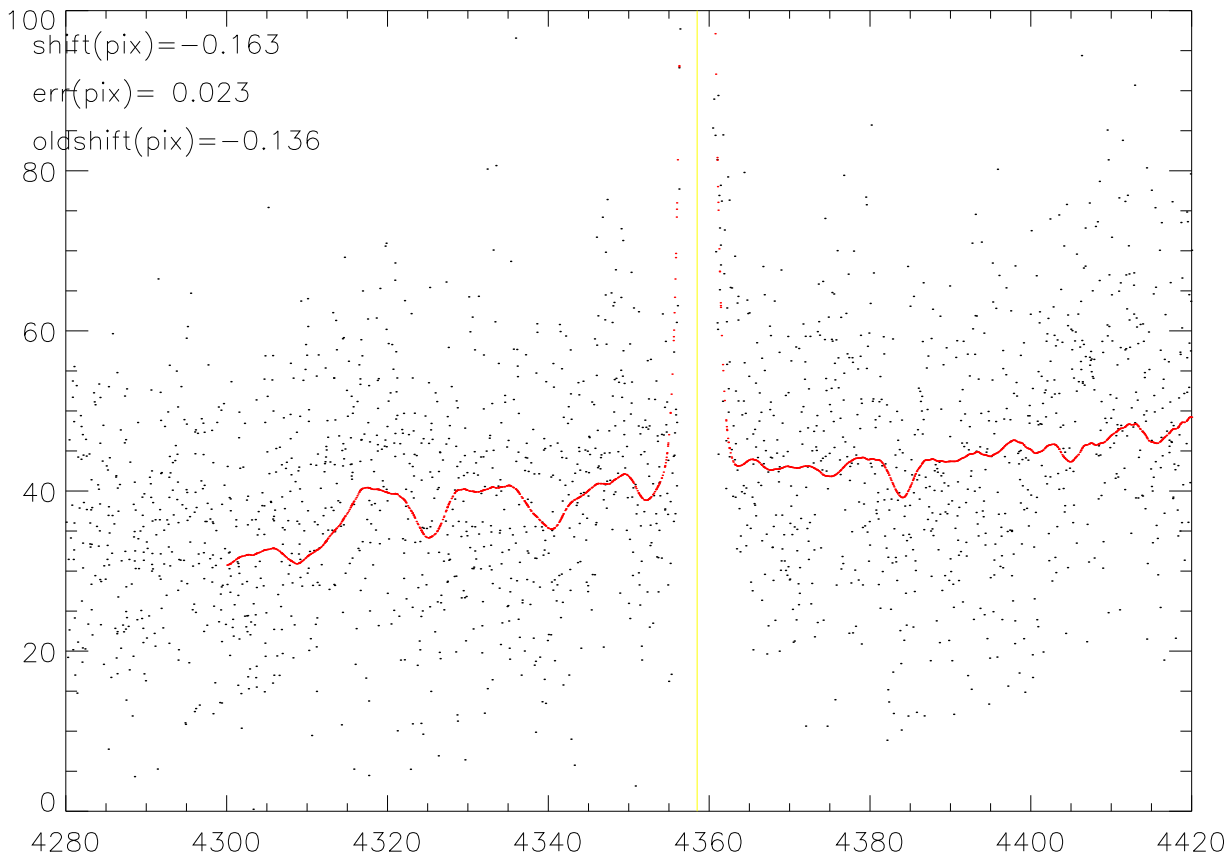

PLATE=1365 MJD=53062 Scattered Light on sdR-b2-00025366.fit
5.18
4.27
3.36
0
3.36
0
2.45
3.36
4.27
4.27
4.27
4.27
5.18
0
500
1000
1500
2000
Y [pix]
X [pix]

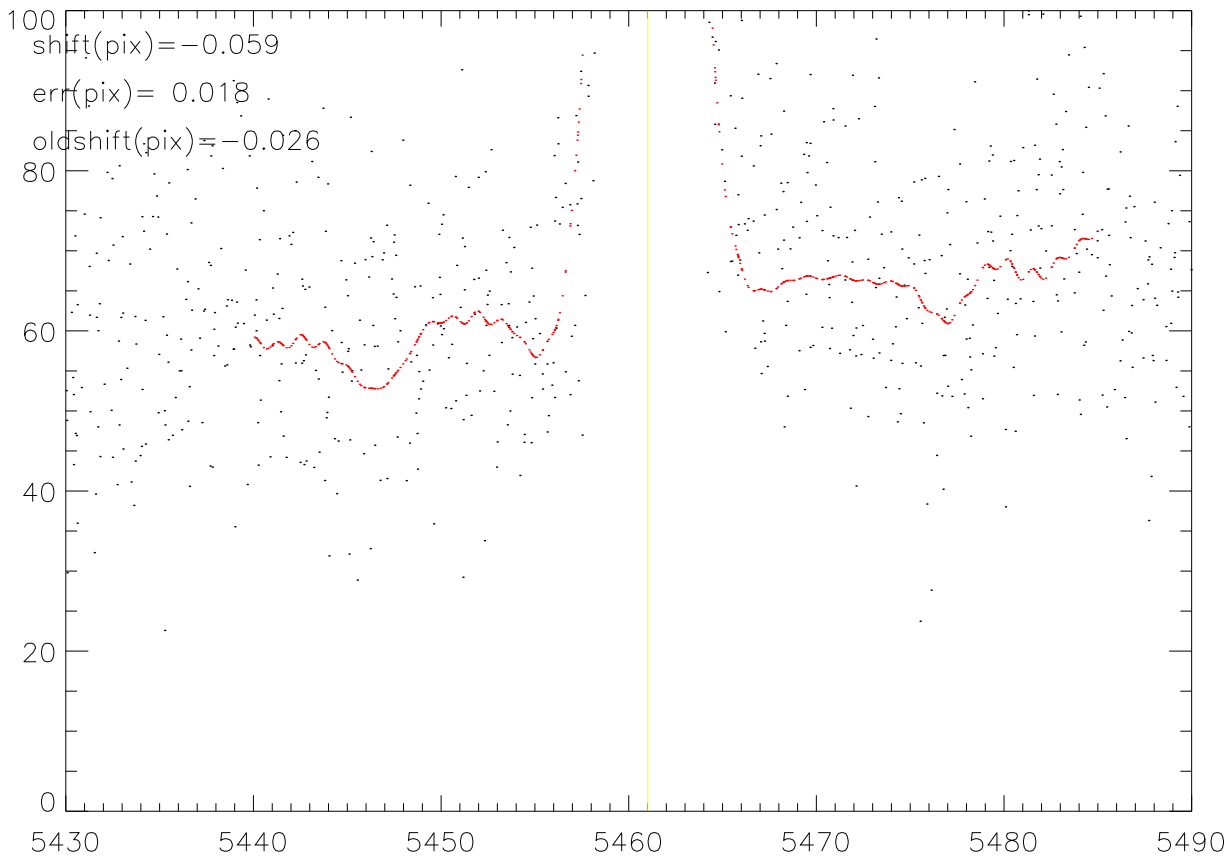

PLATE=1365 MJD=53062 Scattered Light on sdR-b2-00025366.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.638
Max value = 5.011
Thu Feb 28 21:23:45 2008

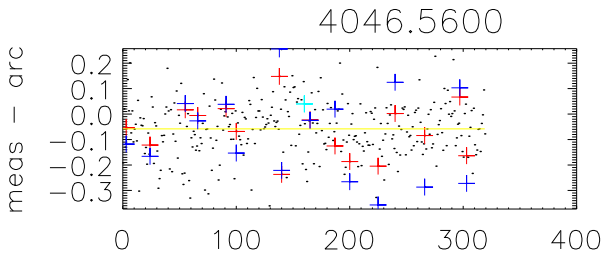

PLATE=1365 MJD=53062 Extraction chi^2 for sdR-b2-00025366.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

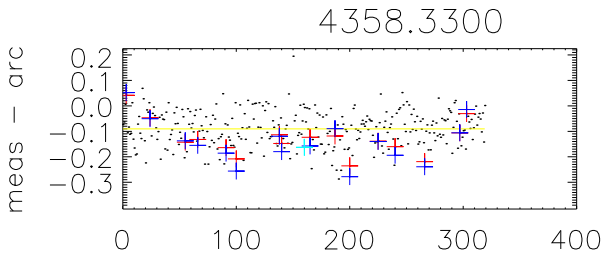

4048.5600
off: −0.05
sig: 0.049
4358.3300
off: −0.14
sig: 0.018
5460.9400
off: −0.03
sig: 0.015
5577.3390
off: 0.02
sig: 0.003
5889.9500
off: 0.08
sig: 0.009
5895.9240
off: 0.08
sig: 0.011

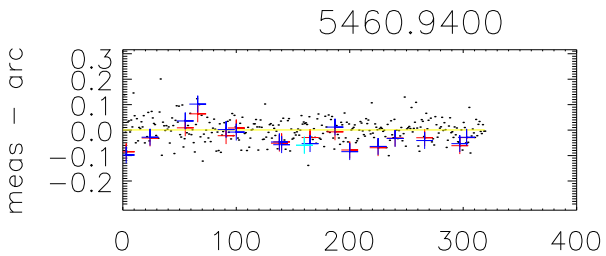

shift(pix)= 0.040
err(pix)= 0.059
oldshift(pix)=−0.048
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

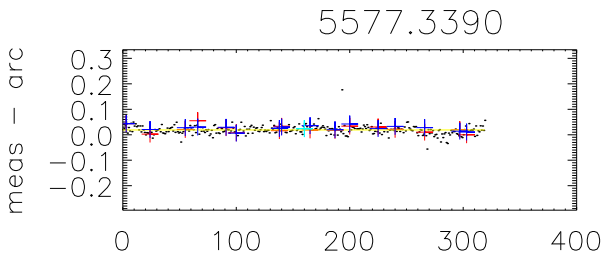

shift(pix)=−0.163
err(pix)= 0.023
oldshift(pix)=−0.136
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

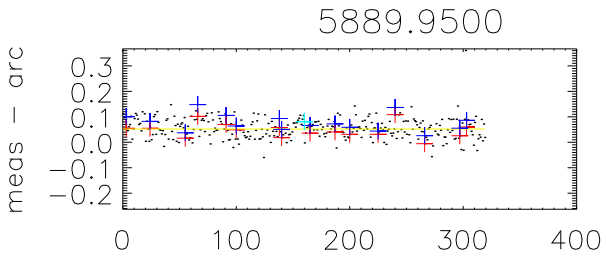

shift(pix)=−0.059
err(pix)= 0.018
oldshift(pix)=−0.026
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

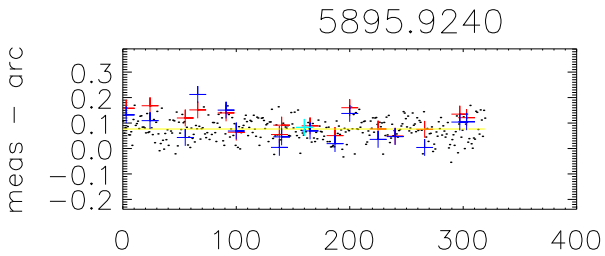

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

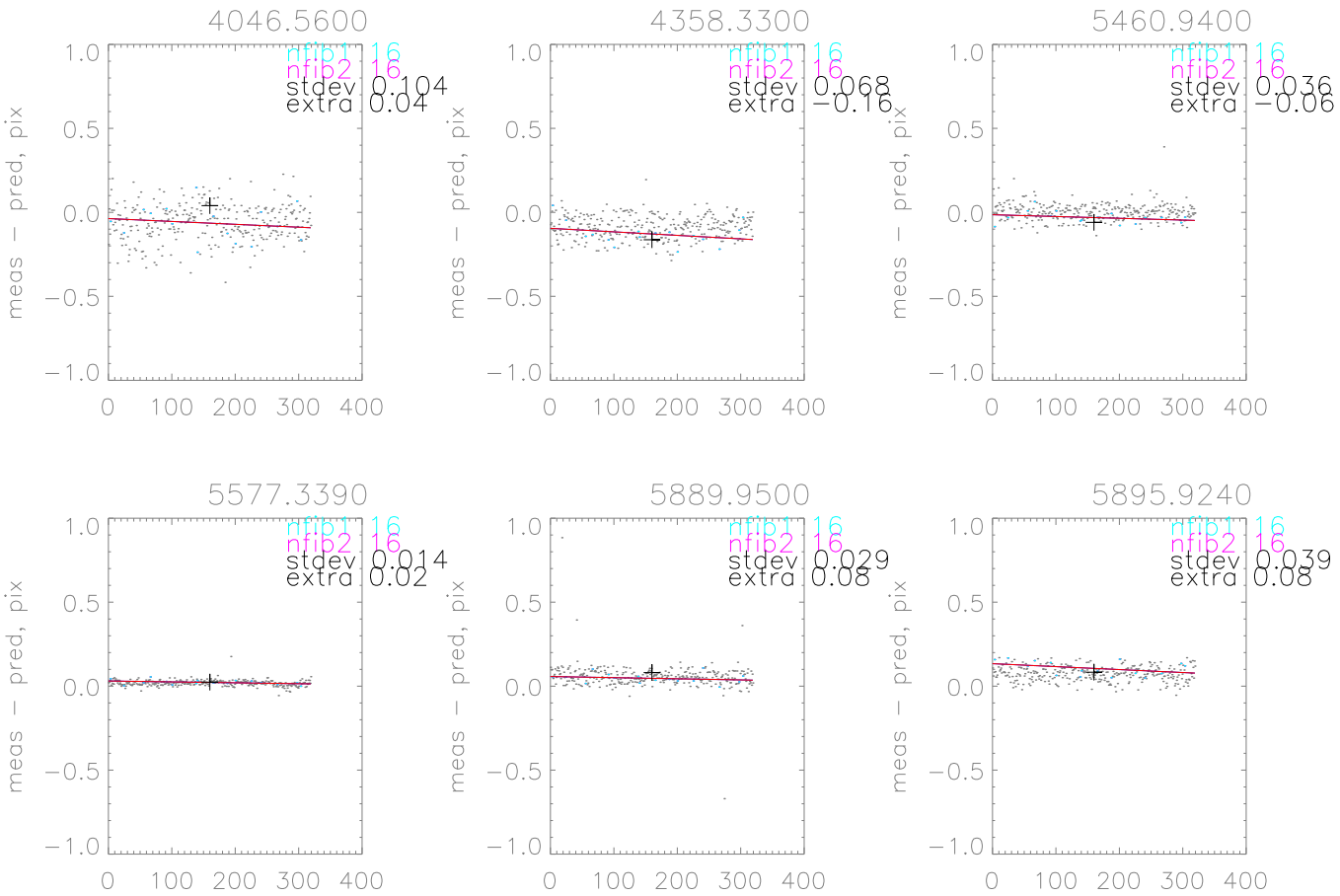

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

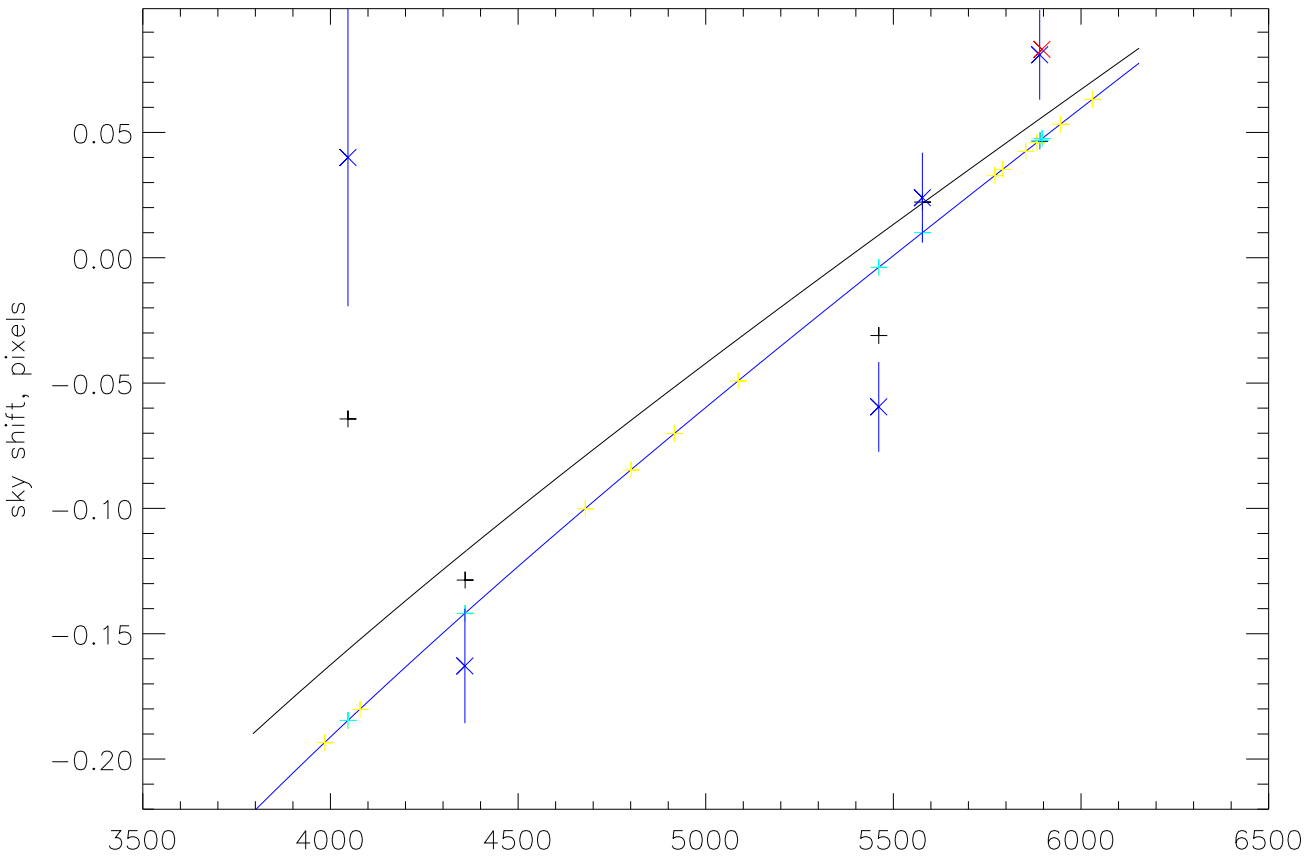

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

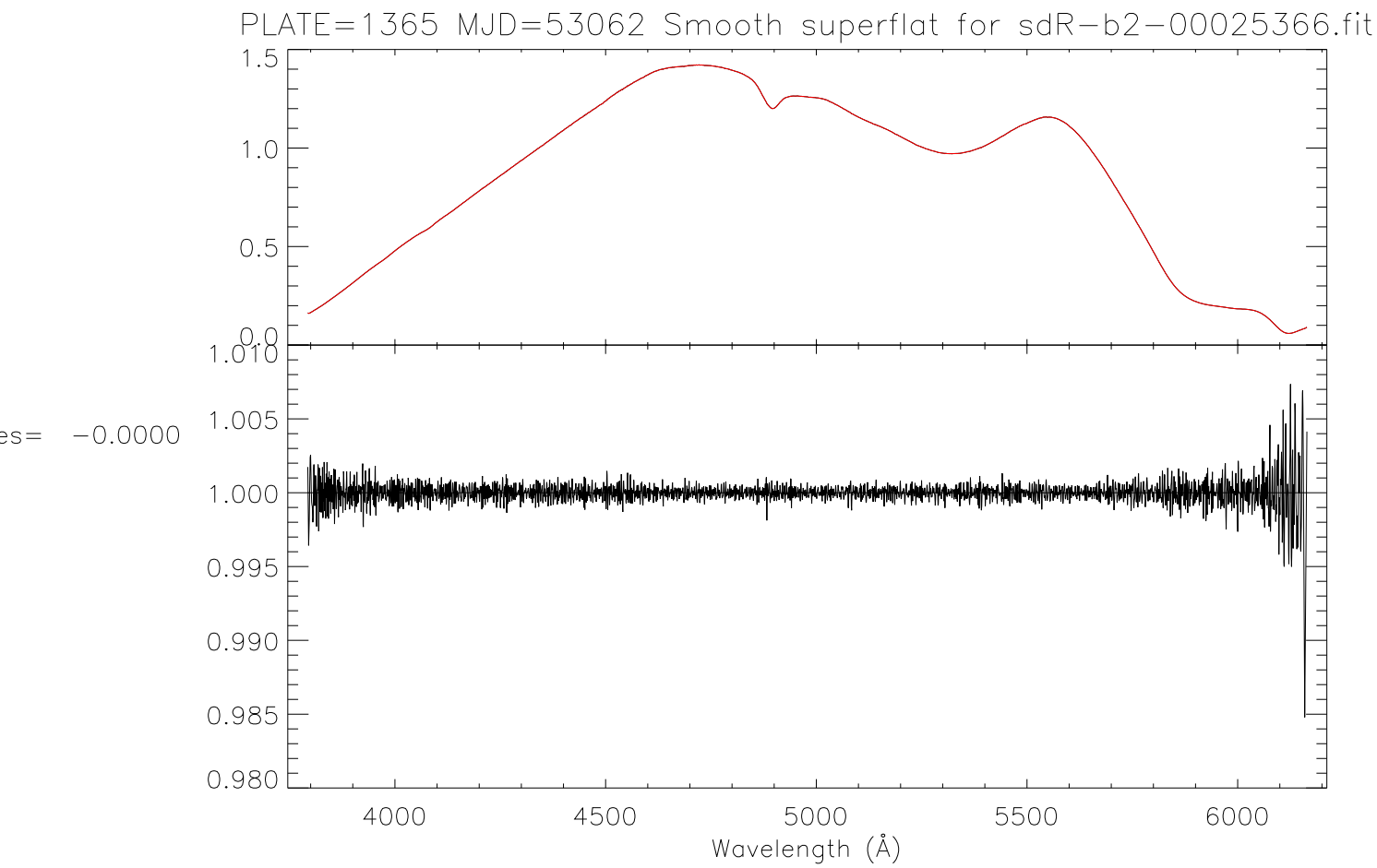

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

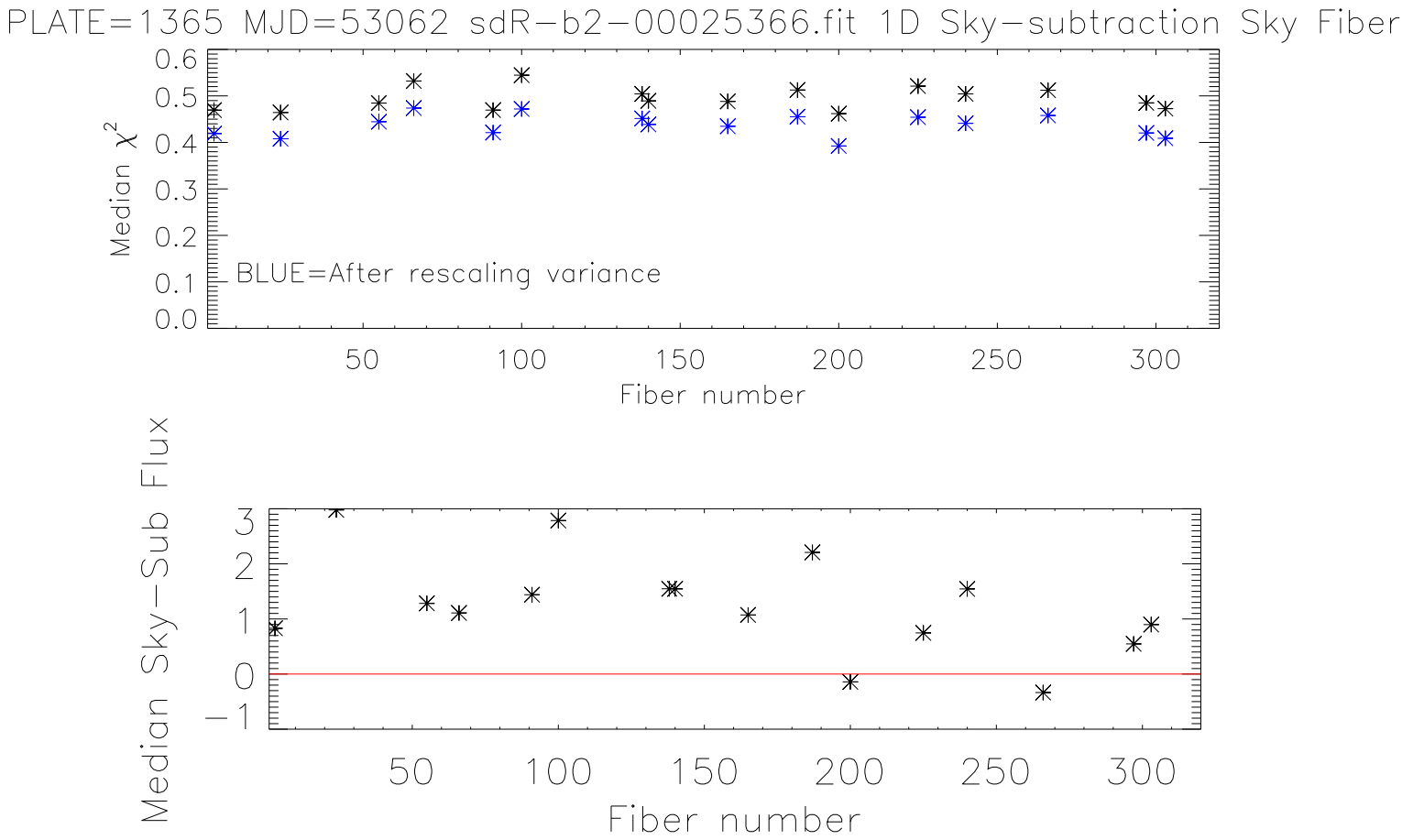

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

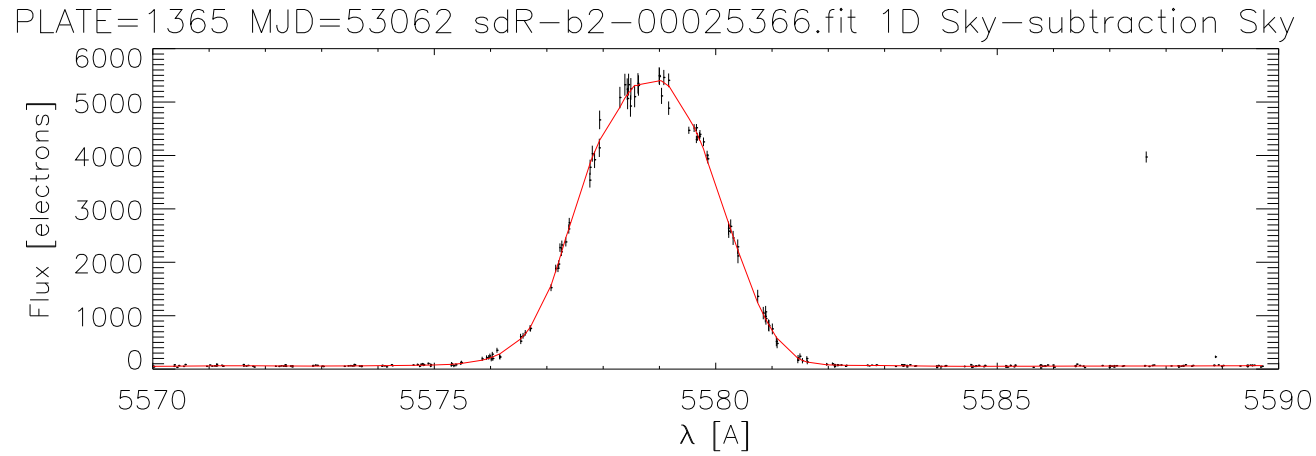

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

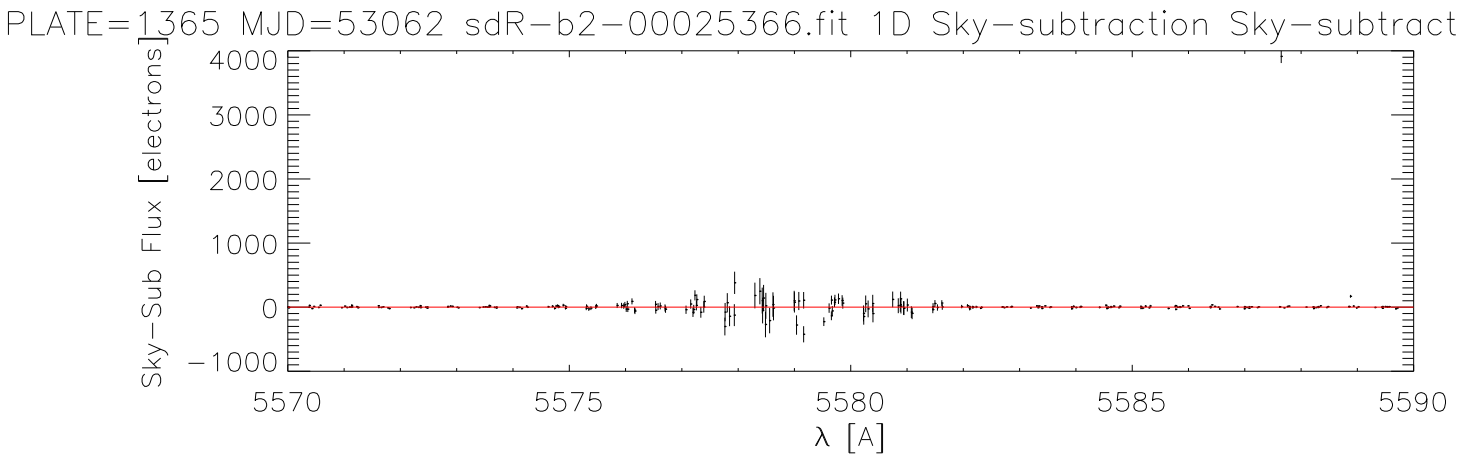

4046.5600
nfib1 16
nfib2 16
stdev 0.104
extra 0.04
4358.3300
nfib1 16
nfib2 16
stdev 0.068
extra −0.16
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra −0.06
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.02
5889.9500
nfib1 16
nfib2 16
stdev 0.029
extra 0.08
5895.9240
nfib1 16
nfib2 16
stdev 0.039
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

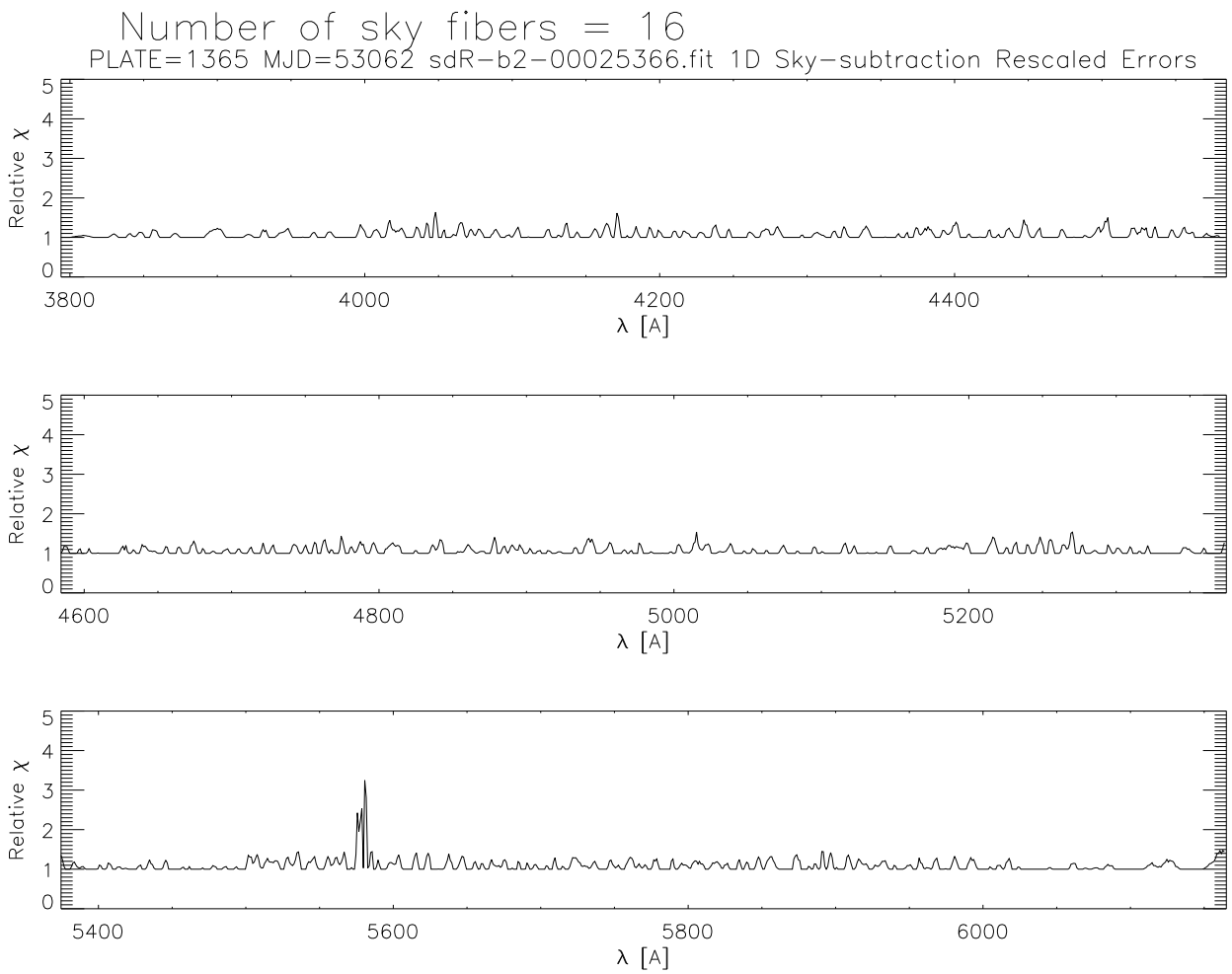

sky shift, pixels
0.05
0.00
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

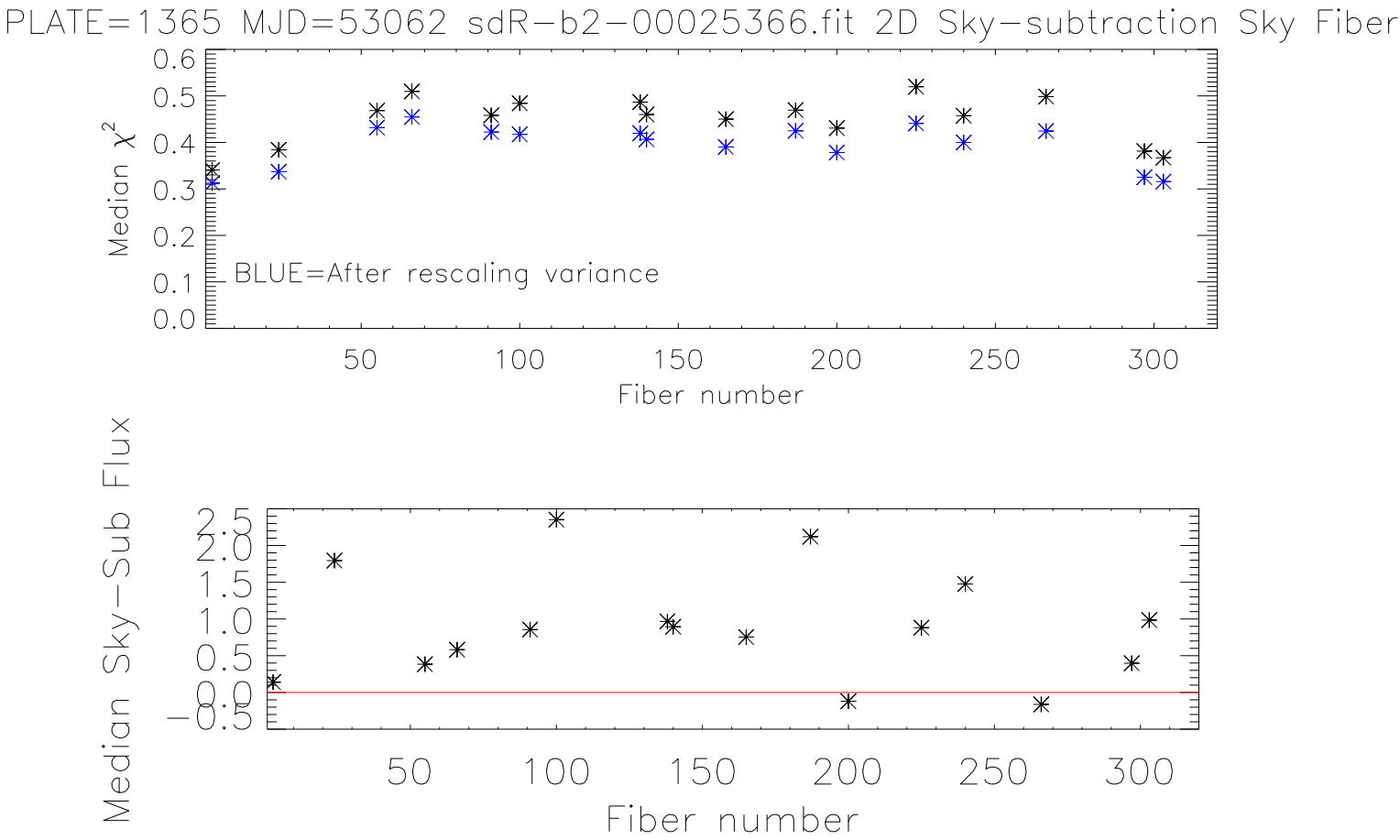

PLATE=1365 MJD=53062 Smooth superflat for sdR-b2-00025366.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

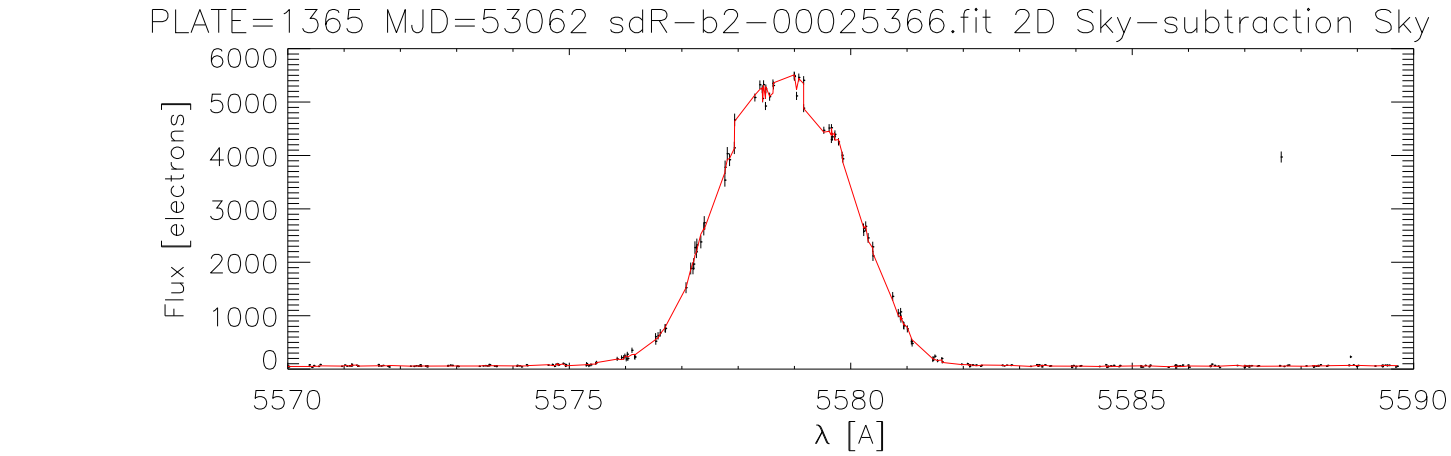

PLATE=1365 MJD=53062 sdR-b2-00025366.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

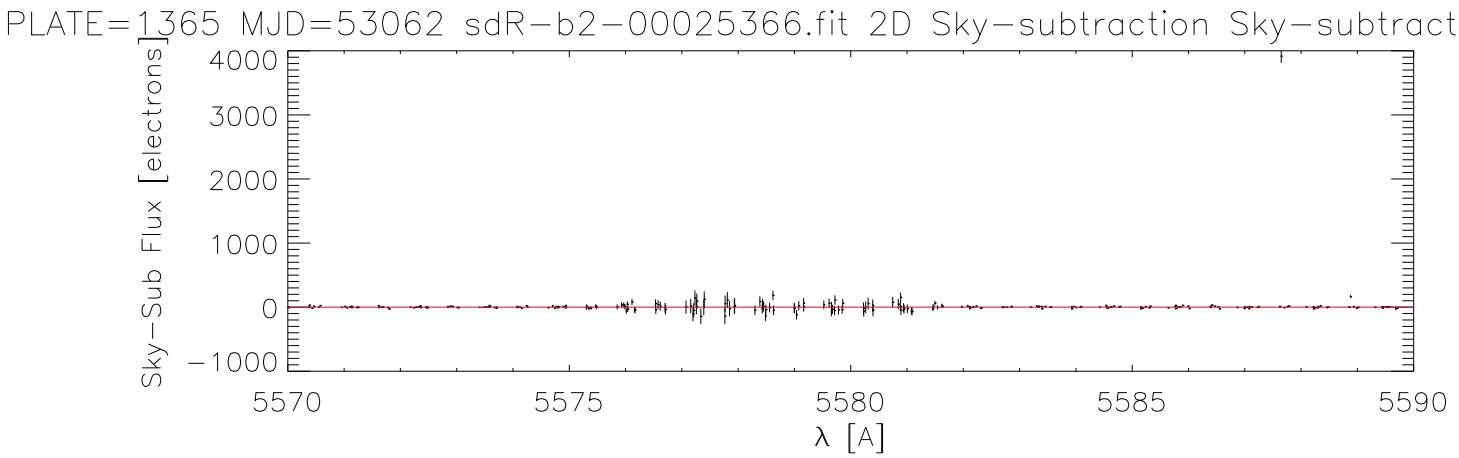

PLATE=1365 MJD=53062 sdR-b2-00025366.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

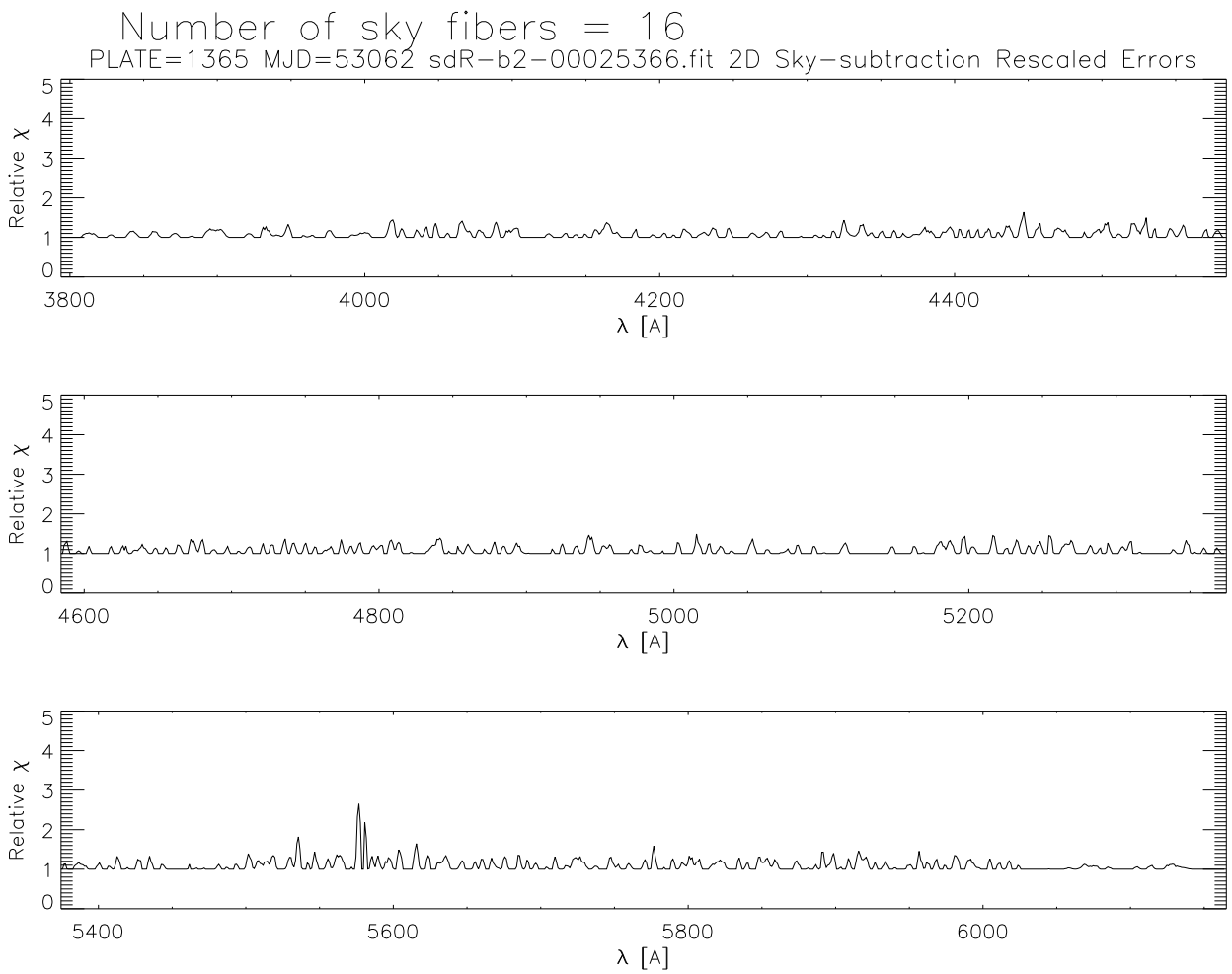

PLATE=1365 MJD=53062 sdR-b2-00025366.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

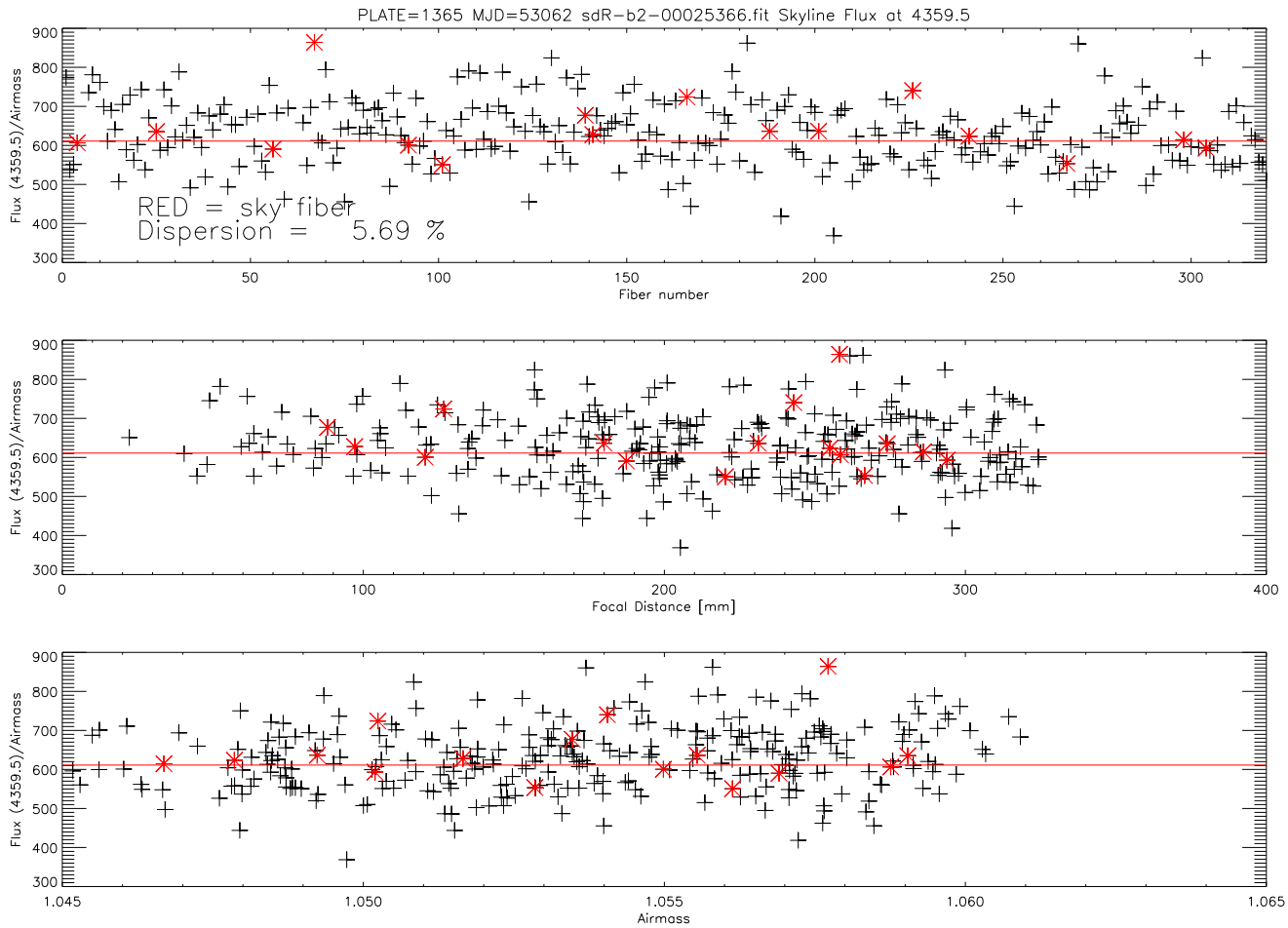

Number of sky fibers = 16
PLATE=1365 MJD=53062 sdR-b2-00025366.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

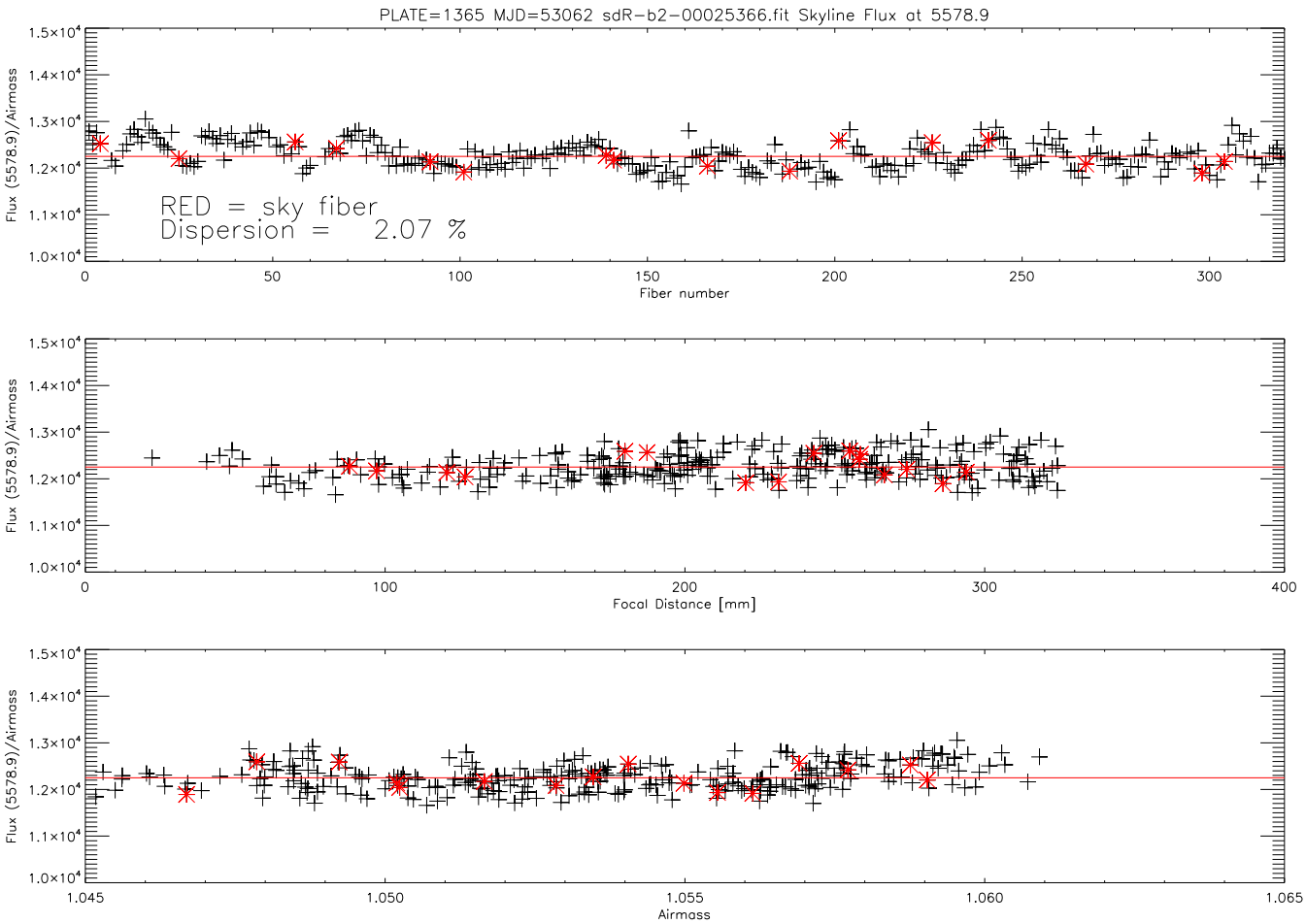

PLATE=1365 MJD=53062 sdR-b2-00025366.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

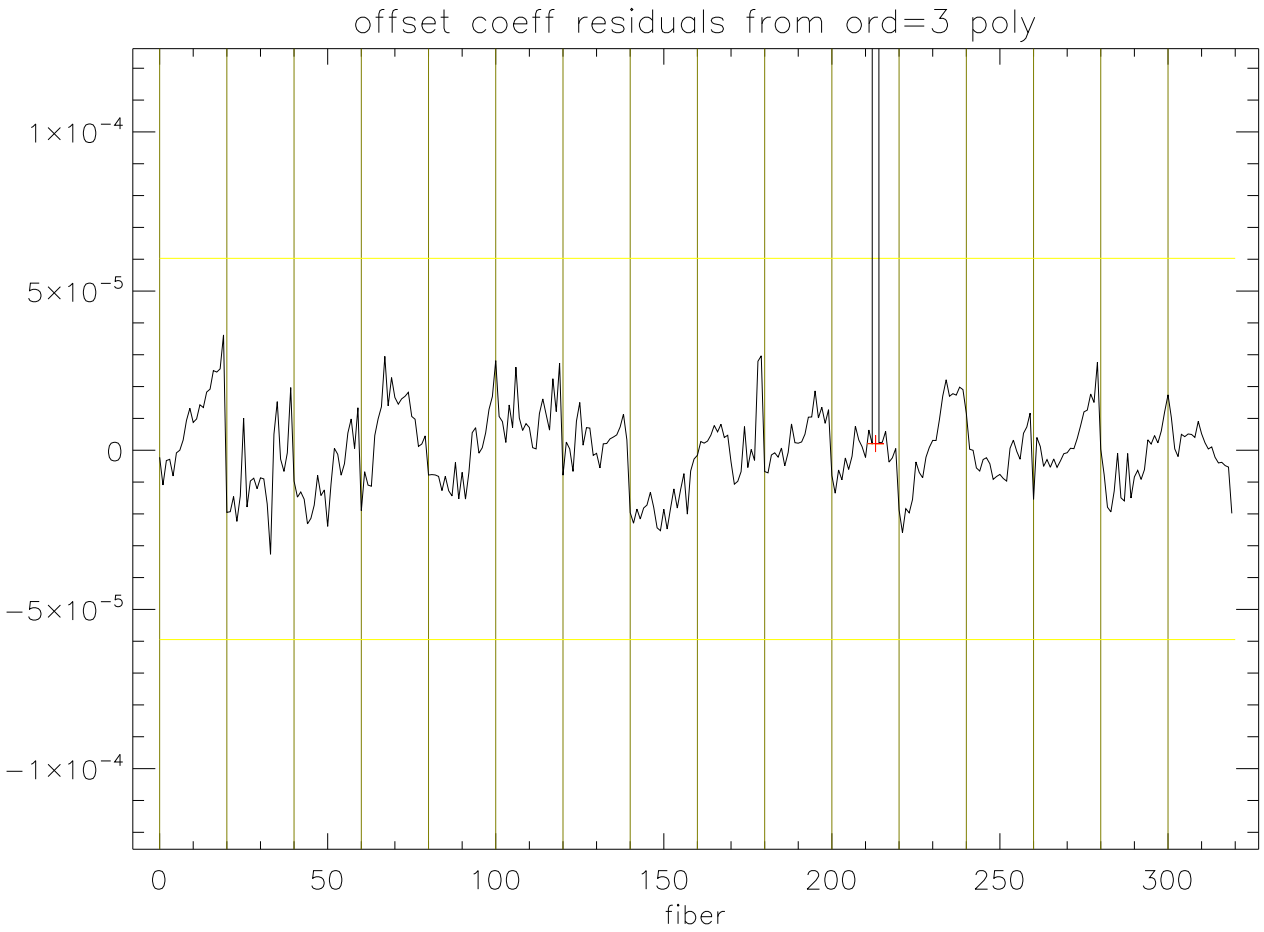

PLATE=1365 MJD=53062 sdR-b2-00025366.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

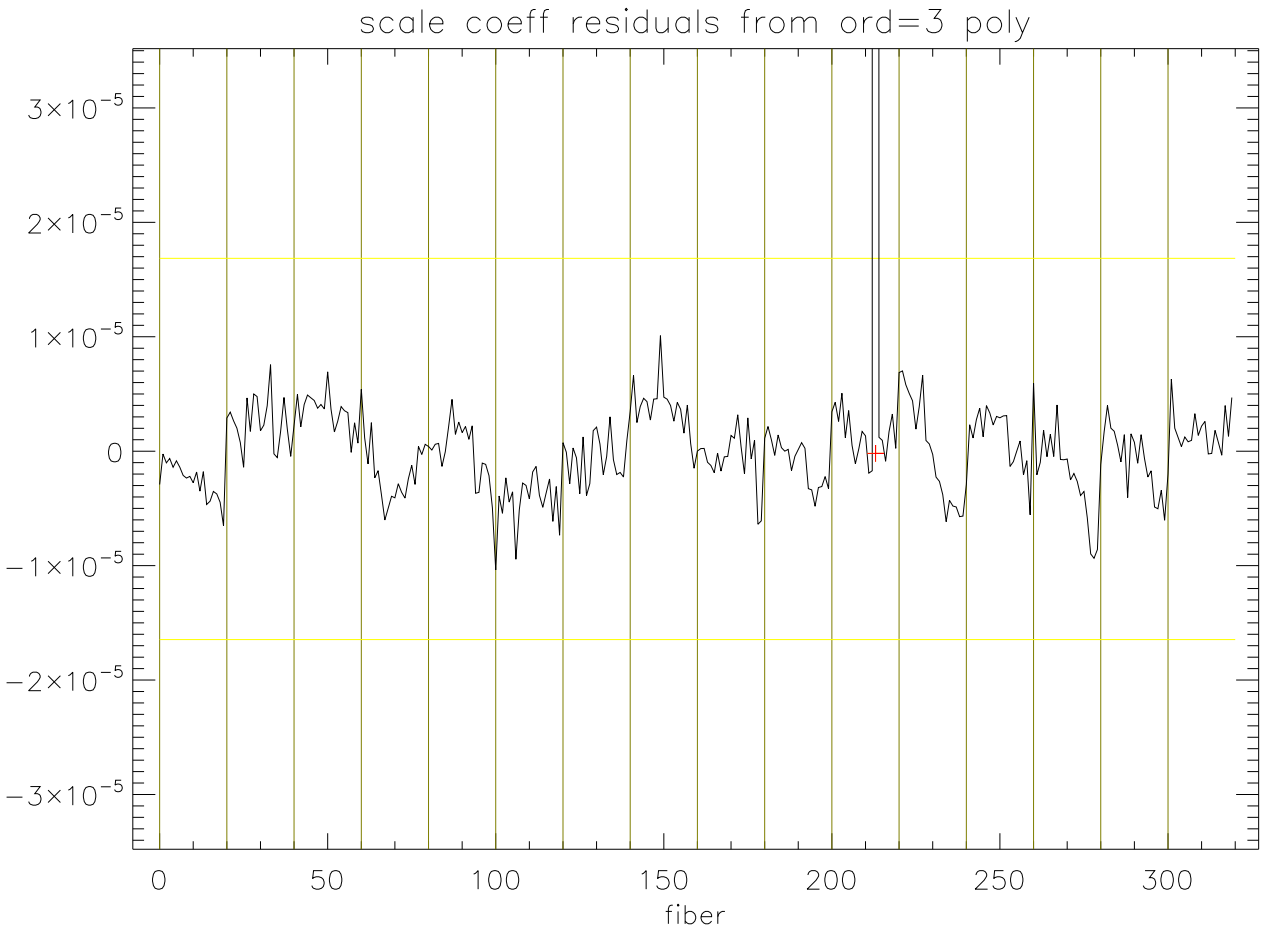

PLATE=1365 MJD=53062 sdR-b2-00025366.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

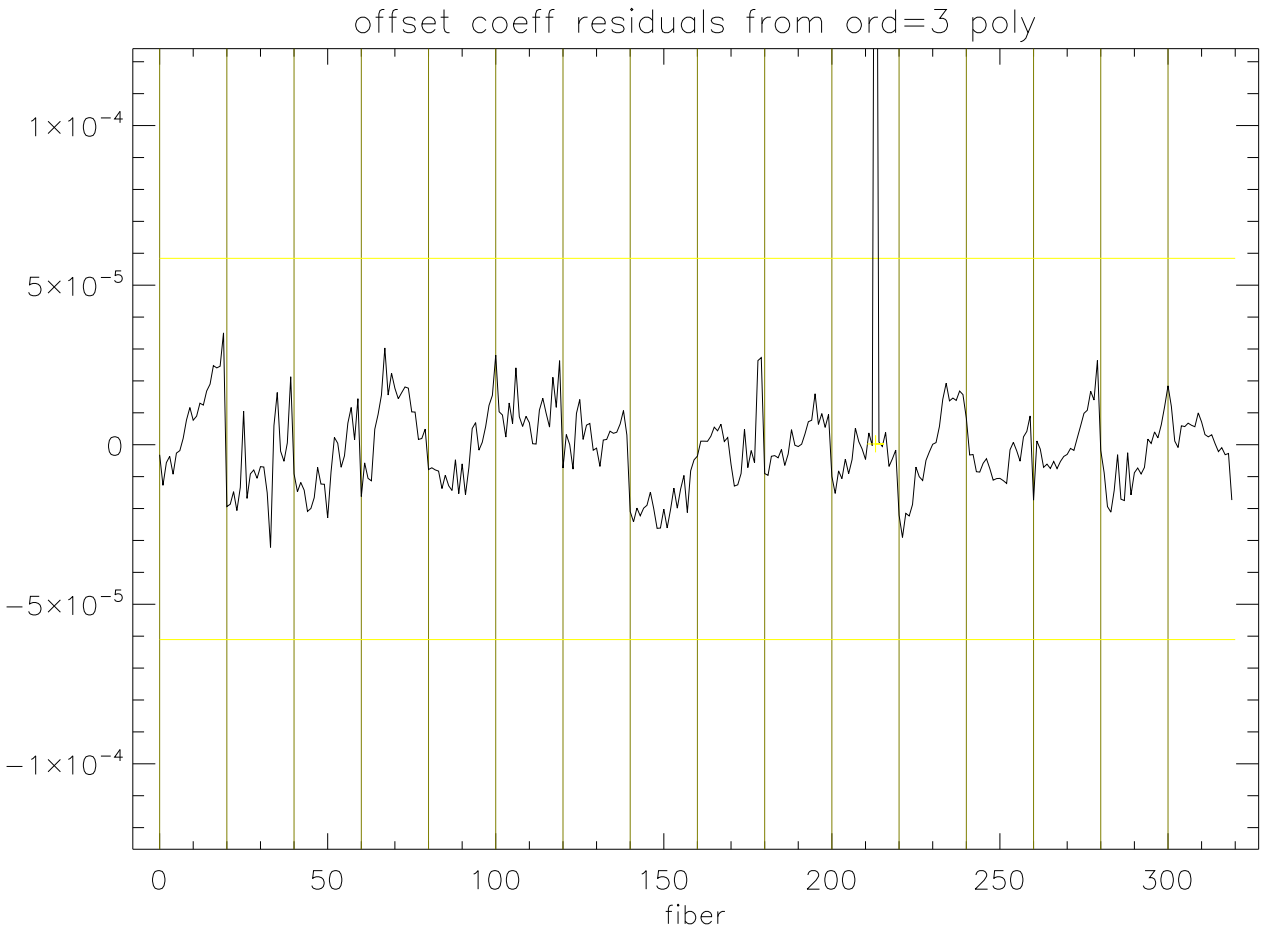

Number of sky fibers = 16
PLATE=1365 MJD=53062 sdR-b2-00025366.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

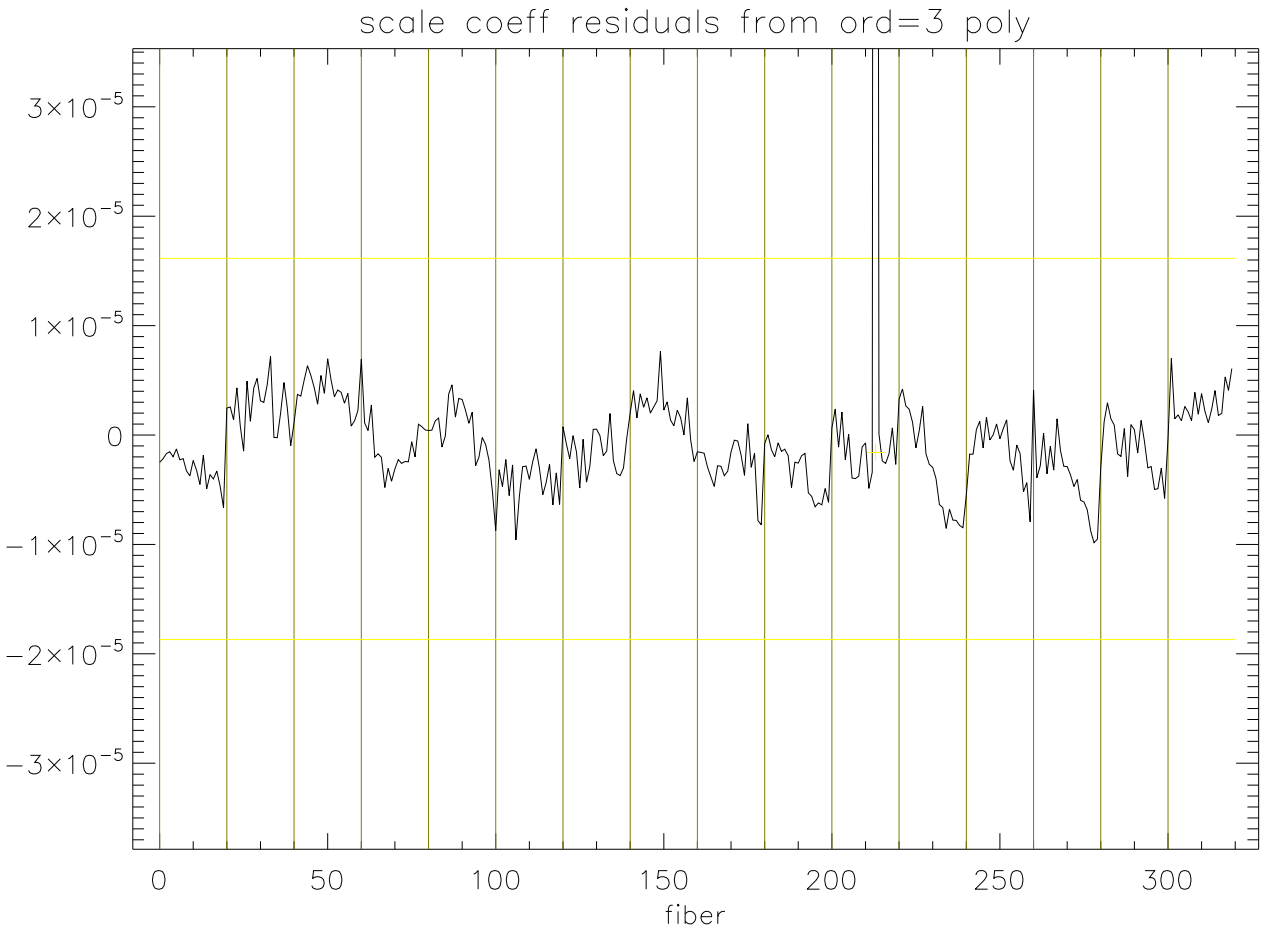

PLATE=1365 MJD=53062 sdR-b2-00025366.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.69 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

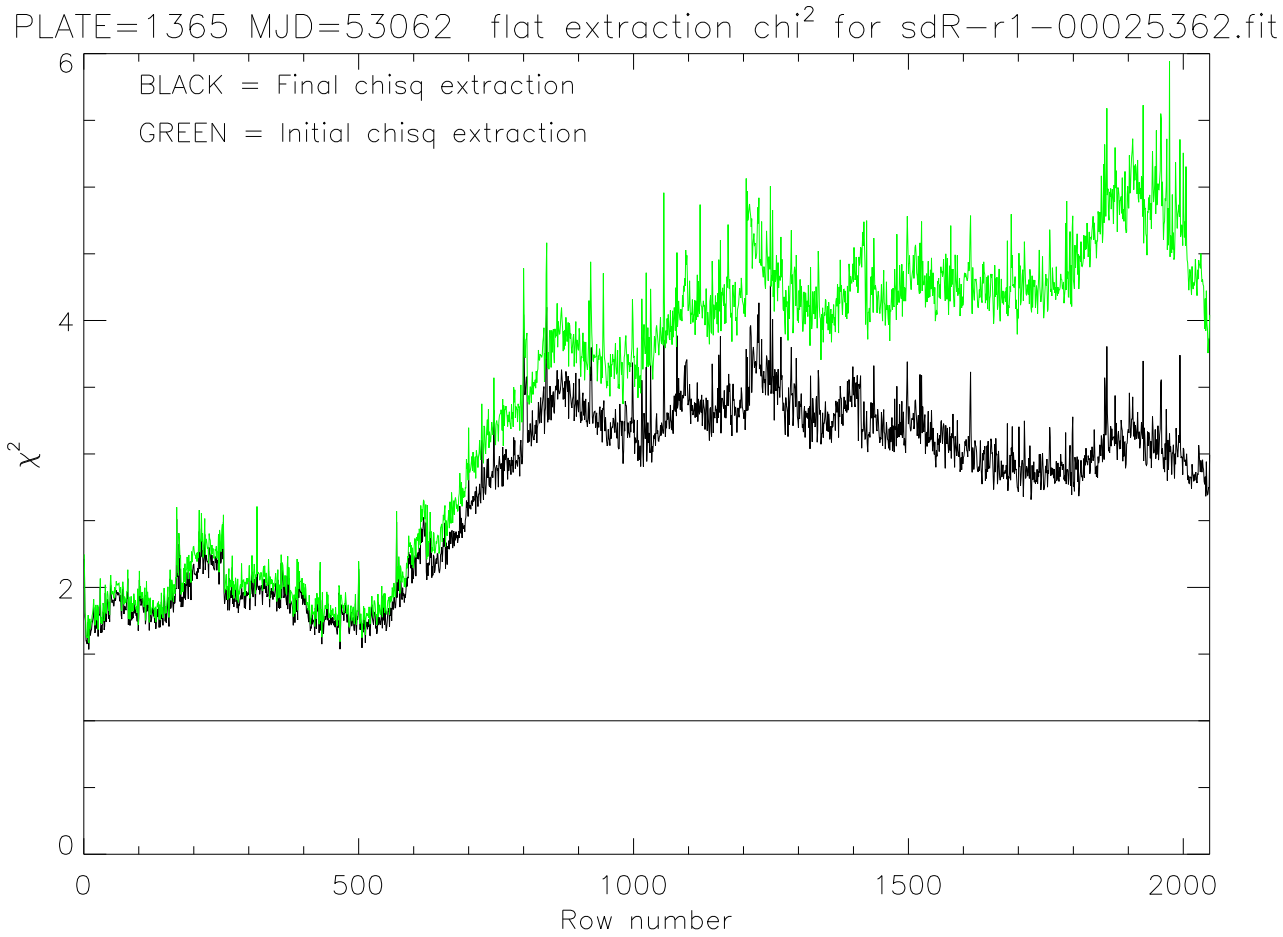

PLATE=1365 MJD=53062 sdR-b2-00025366.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.07 %
Fiber number
Focal Distance [mm]
Airmass

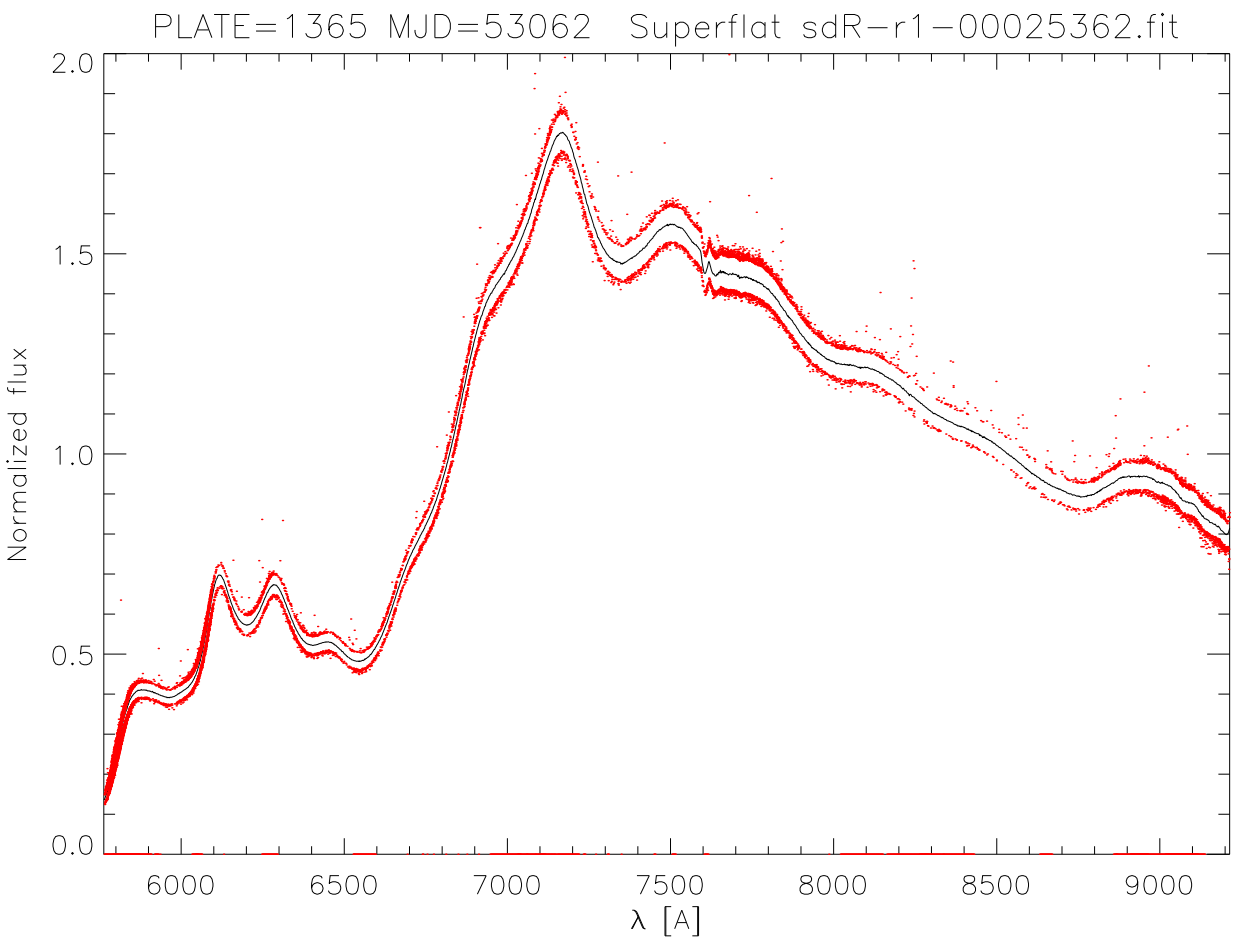

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

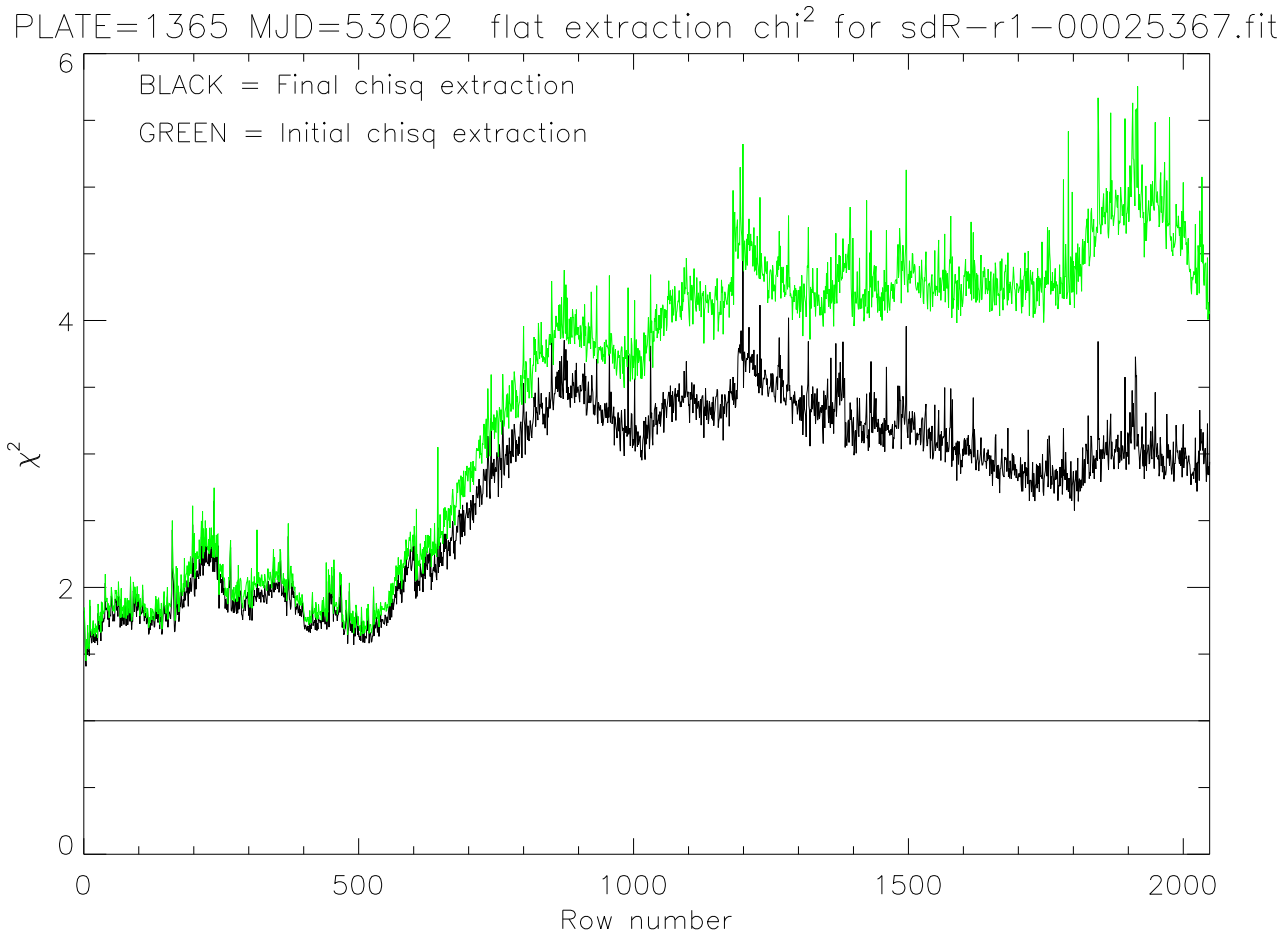

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

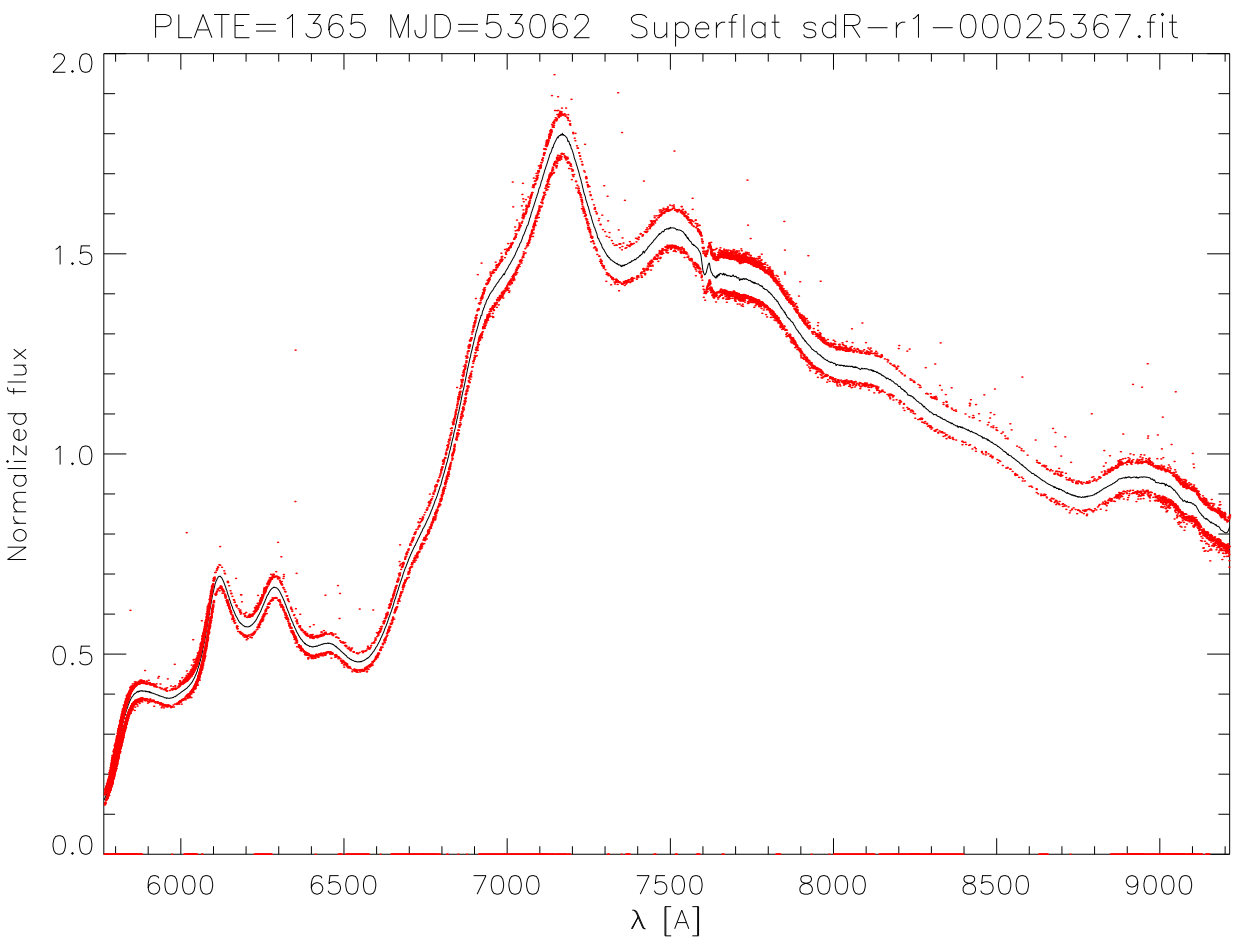

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

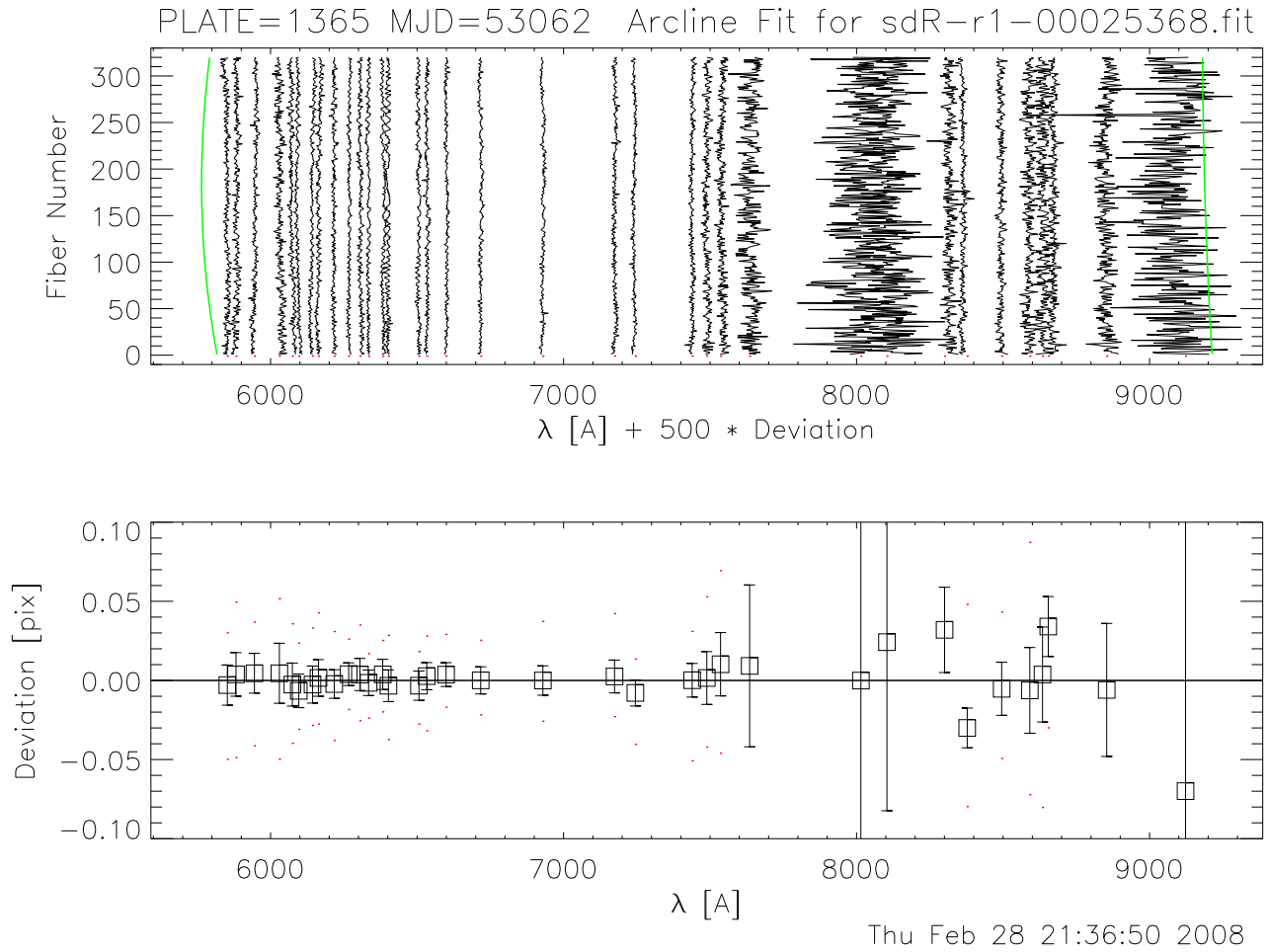

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

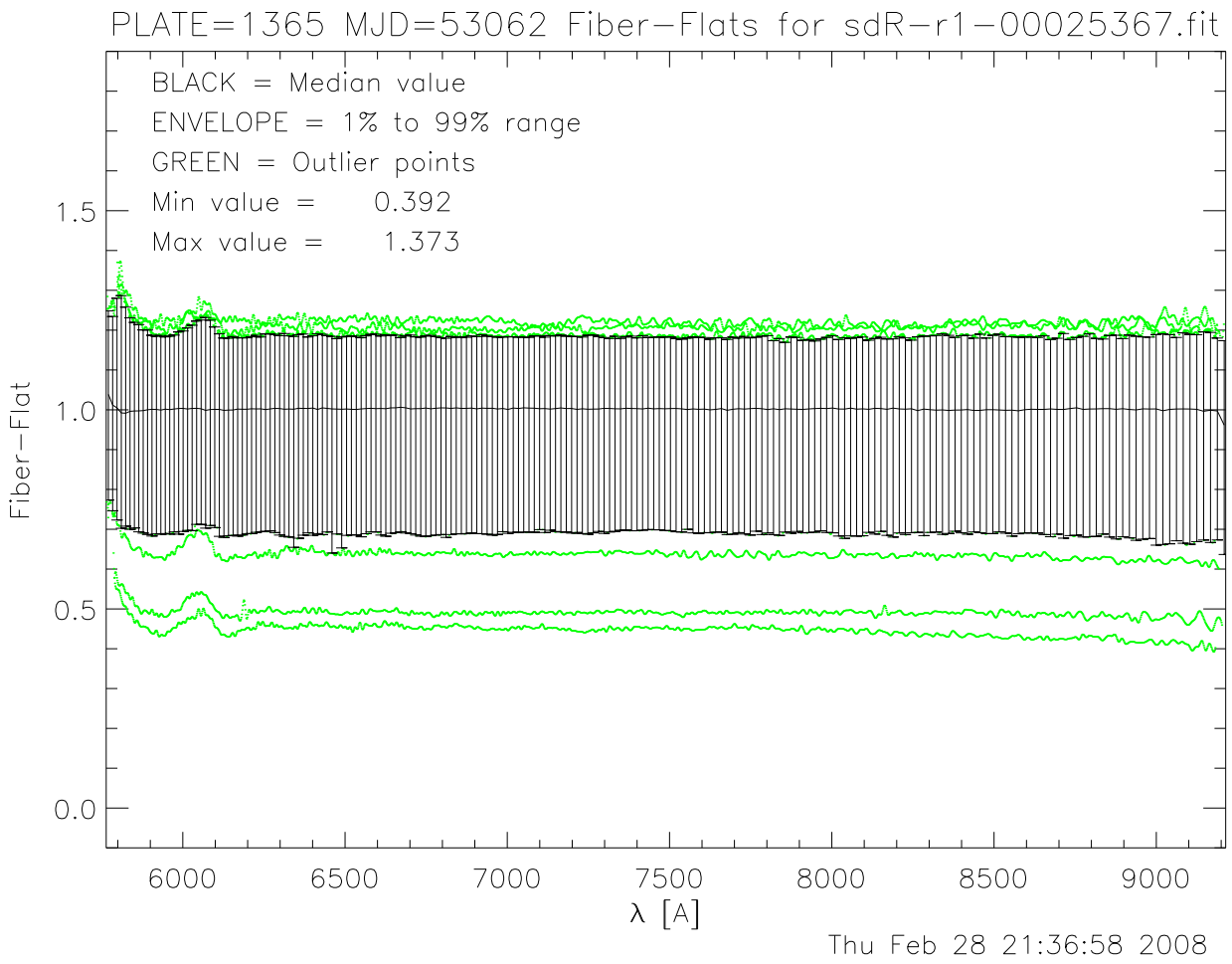

PLATE=1365 MJD=53062 flat extraction chi^2 for sdR−r1−00025362.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

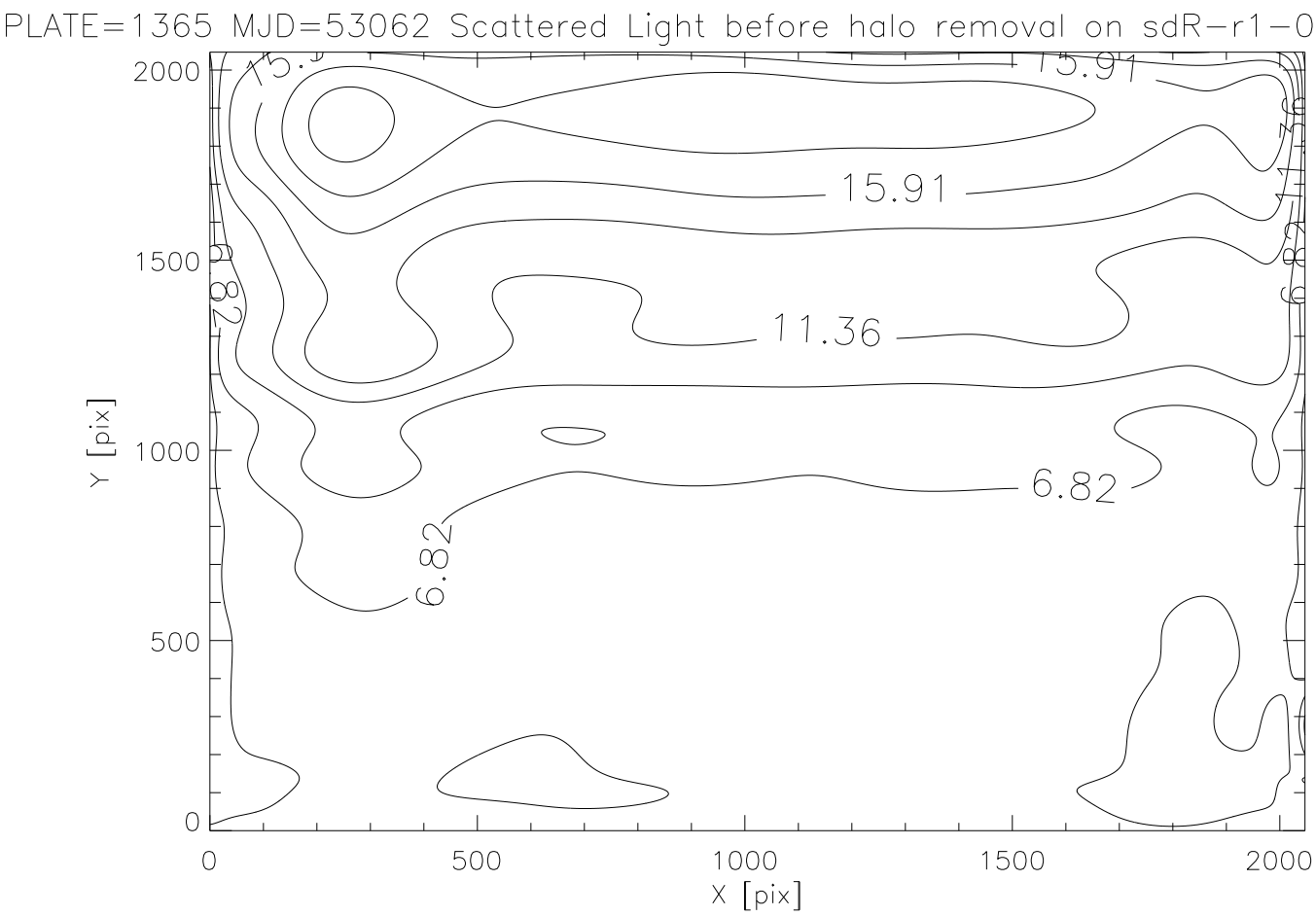

PLATE=1365 MJD=53062 Superflat sdR-r1-00025362.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

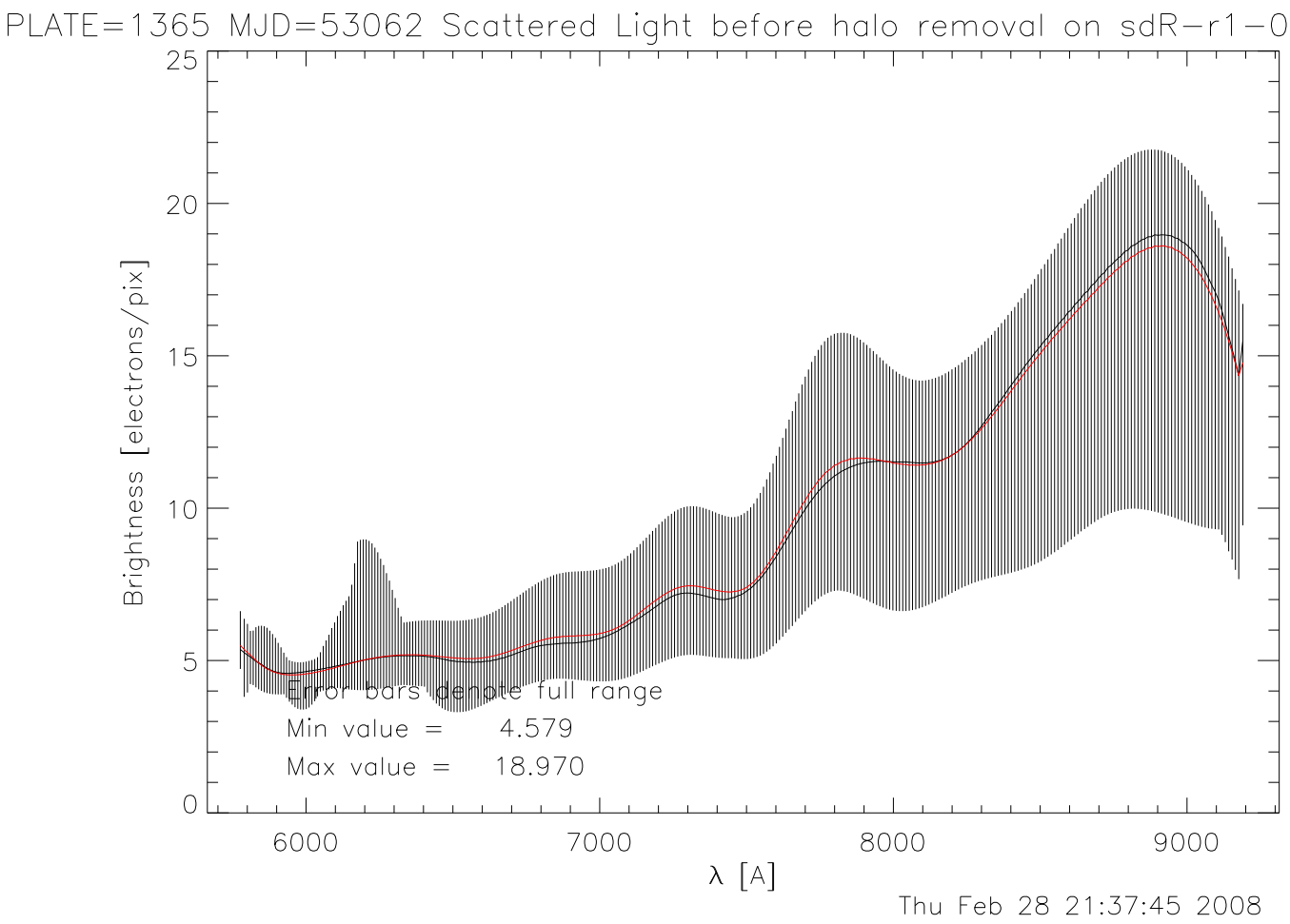

PLATE=1365 MJD=53062 flat extraction chi^2 for sdR−r1−00025367.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

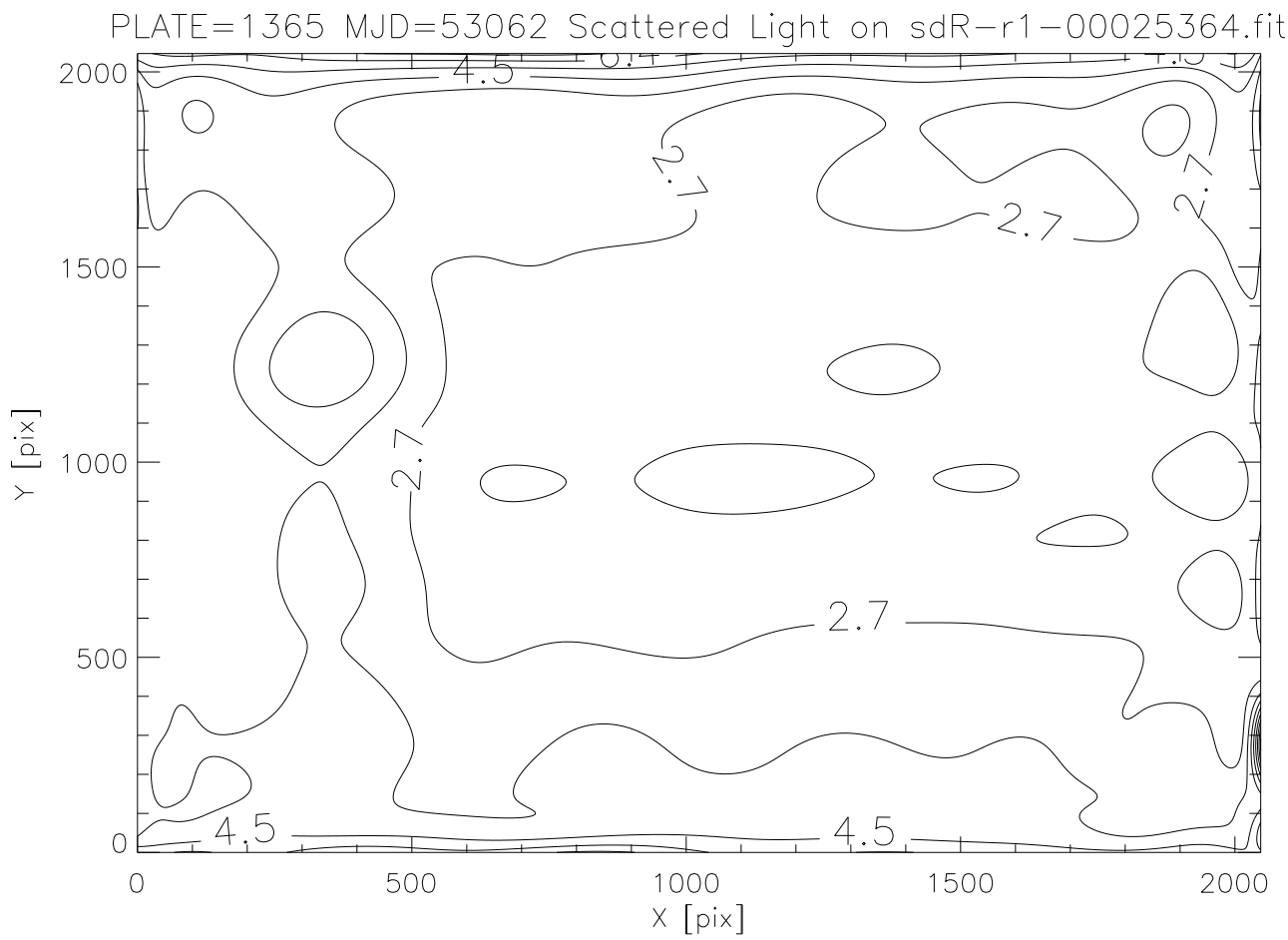

PLATE=1365 MJD=53062 Superflat sdR-r1-00025367.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

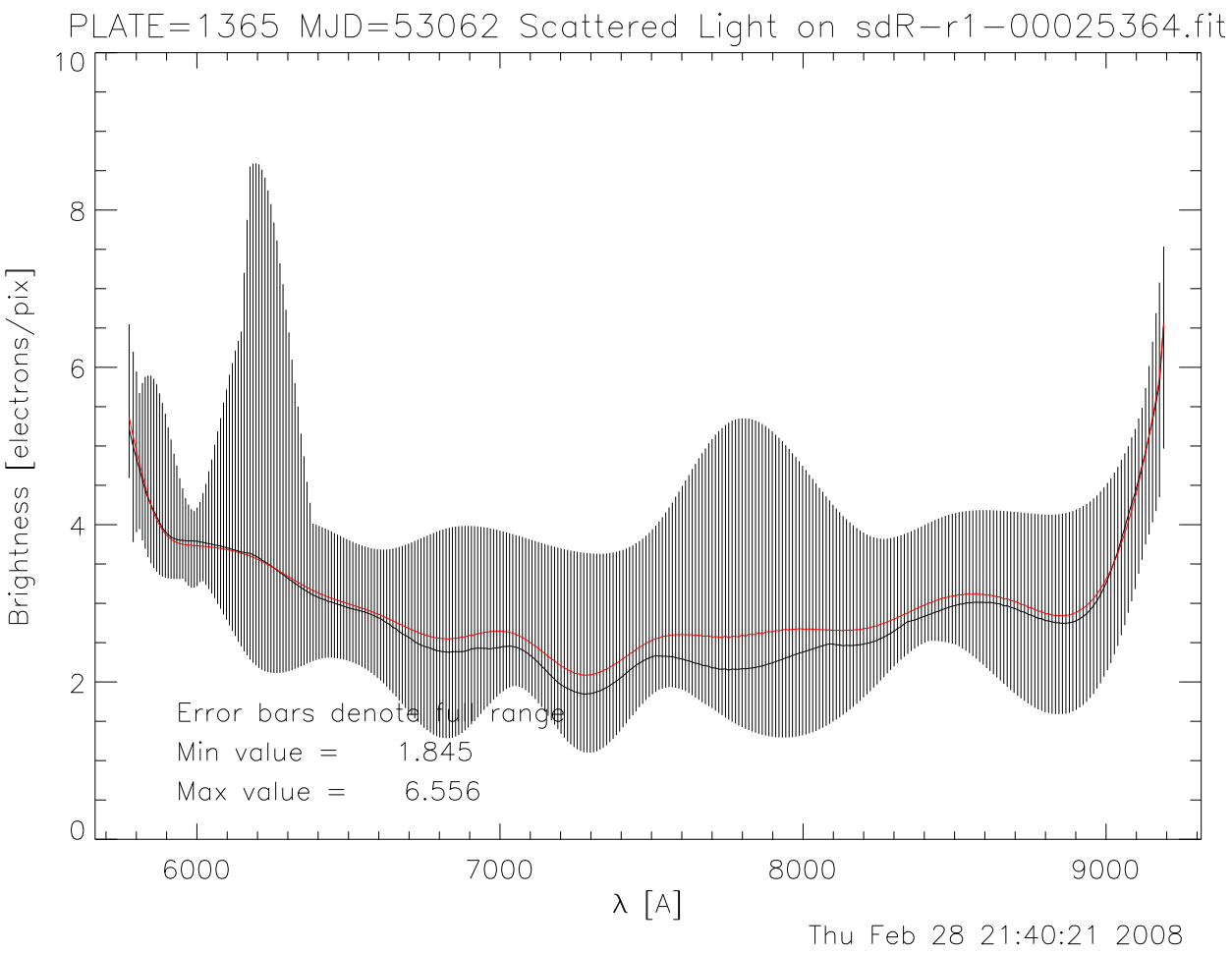

PLATE=1365 MJD=53062 Arcline Fit for sdR-r1-00025368.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Thu Feb 28 21:36:50 2008

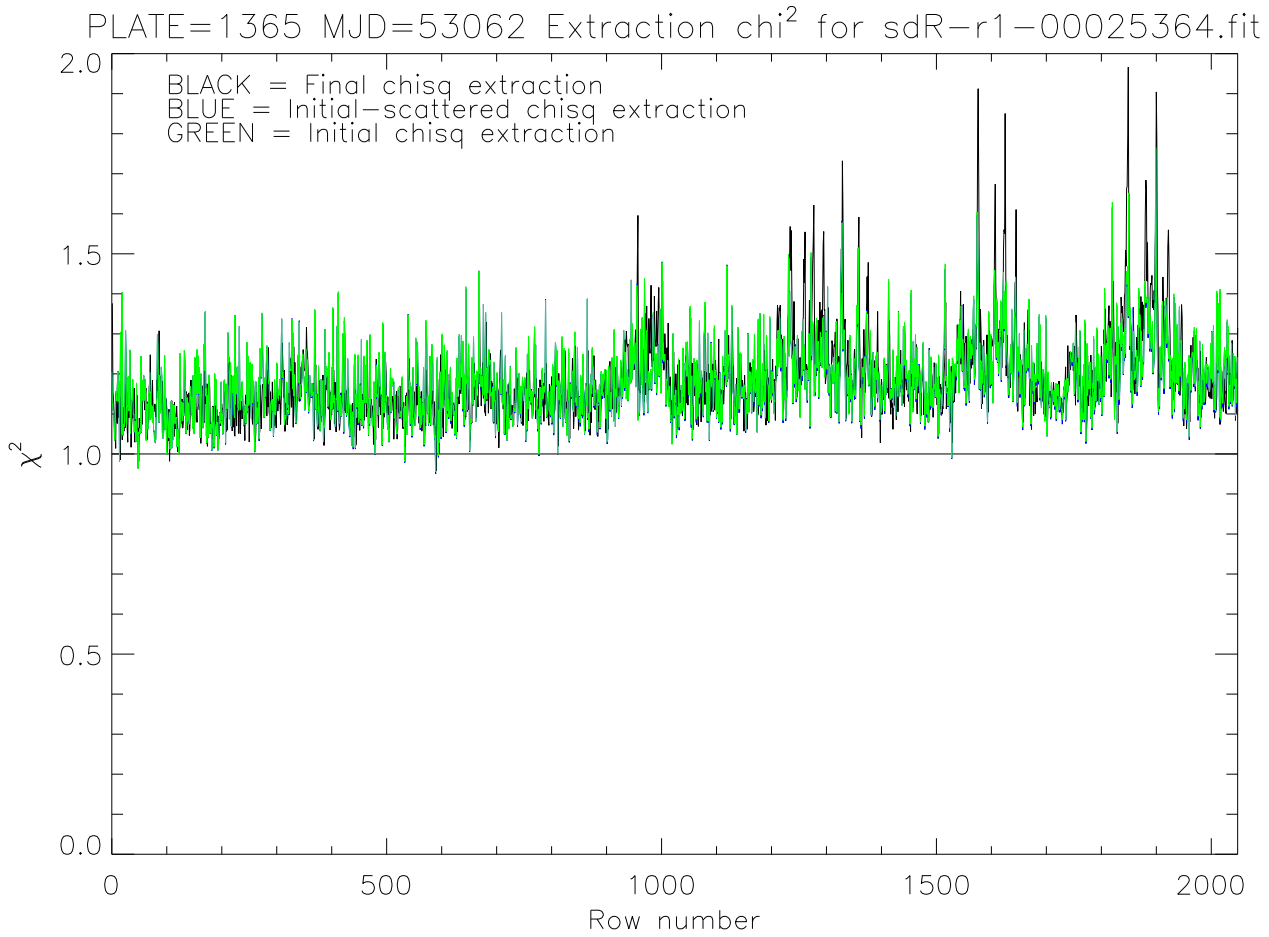

PLATE=1365 MJD=53062 Fiber−Flats for sdR−r1−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.392
Max value = 1.373
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 21:36:58 2008

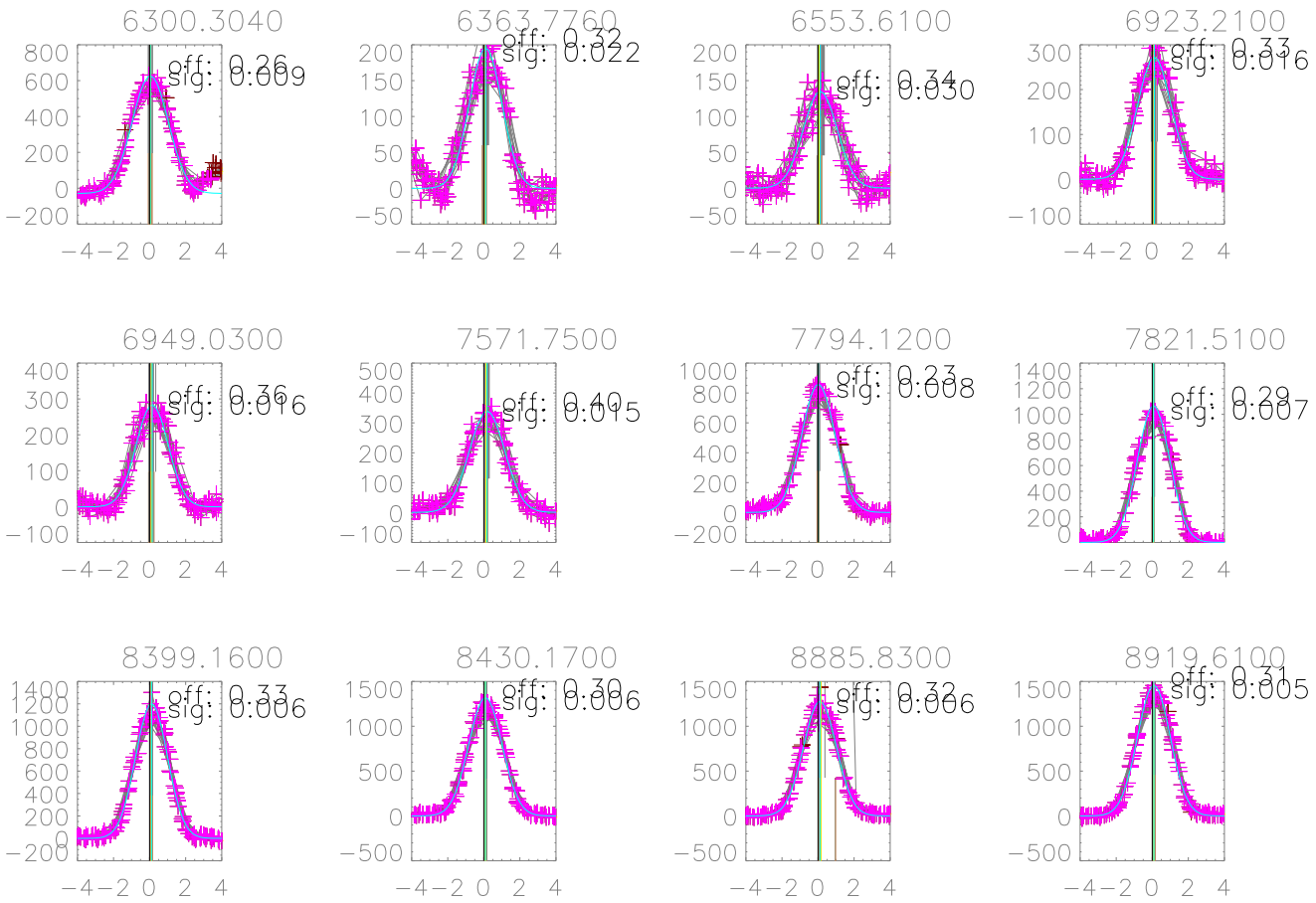

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r1-00025364.fi
15.91
15.91
11.36
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

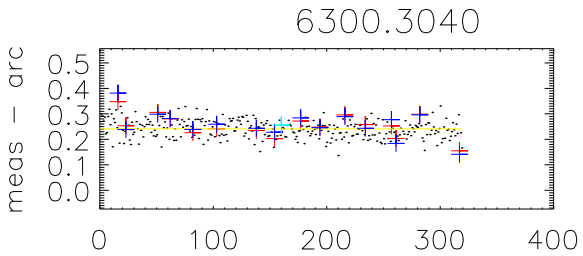

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r1-00025364.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.579
Max value = 18.970
Thu Feb 28 21:37:45 2008

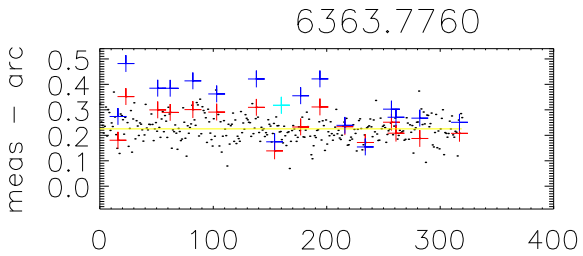

PLATE=1365 MJD=53062 Scattered Light on sdR-r1-00025364.fit
4.5
2.7
2.7
2.7
2.7
2.7
4.5
4.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

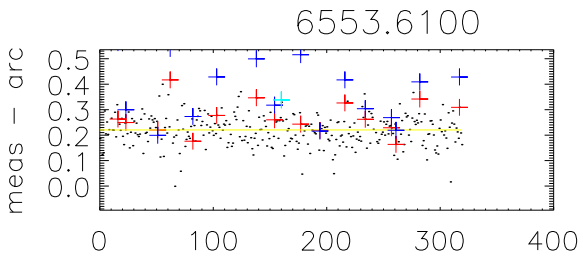

PLATE=1365 MJD=53062 Scattered Light on sdR-r1-00025364.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.845
Max value = 6.556
Thu Feb 28 21:40:21 2008

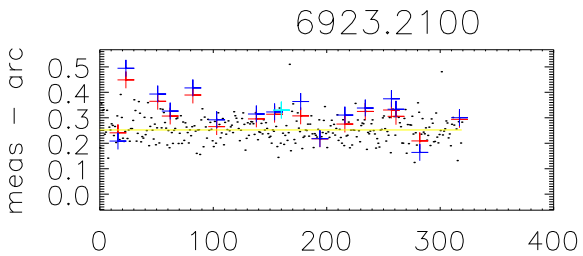

PLATE=1365 MJD=53062 Extraction chi^2 for sdR−r1−00025364.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

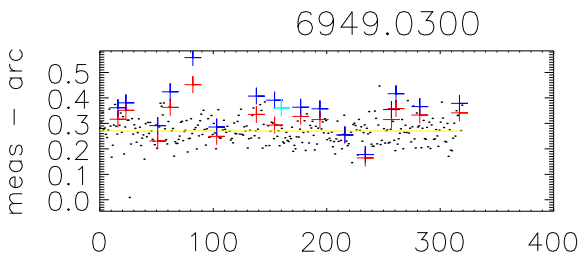

6300.3040
off: 0.26
sig: 0.009
6363.7760
off: 0.32
sig: 0.022
6553.6100
off: 0.34
sig: 0.030
6923.2100
off: 0.33
sig: 0.016
6949.0300
off: 0.36
sig: 0.016
7571.7500
off: 0.40
sig: 0.015
7794.1200
off: 0.23
sig: 0.008
7821.5100
off: 0.29
sig: 0.007
8399.1600
off: 0.33
sig: 0.006
8430.1700
off: 0.30
sig: 0.006
8885.8300
off: 0.32
sig: 0.006
8919.6100
off: 0.31
sig: 0.005

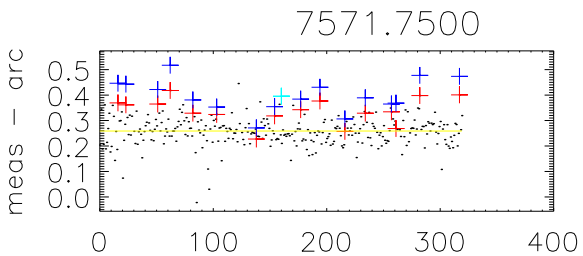

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

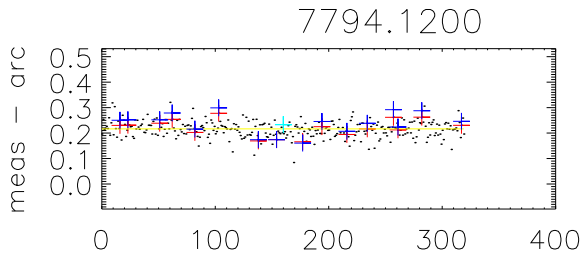

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

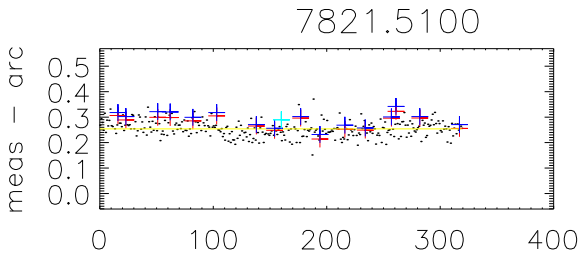

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

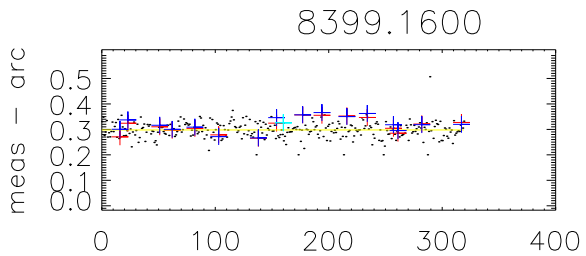

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

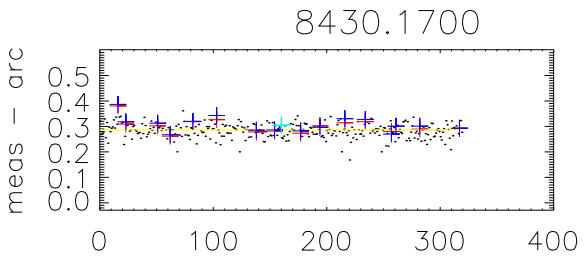

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

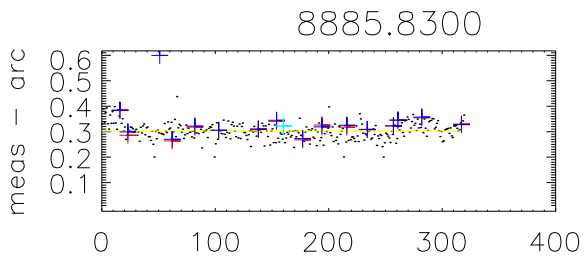

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

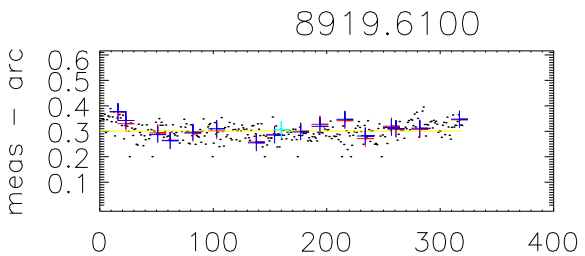

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

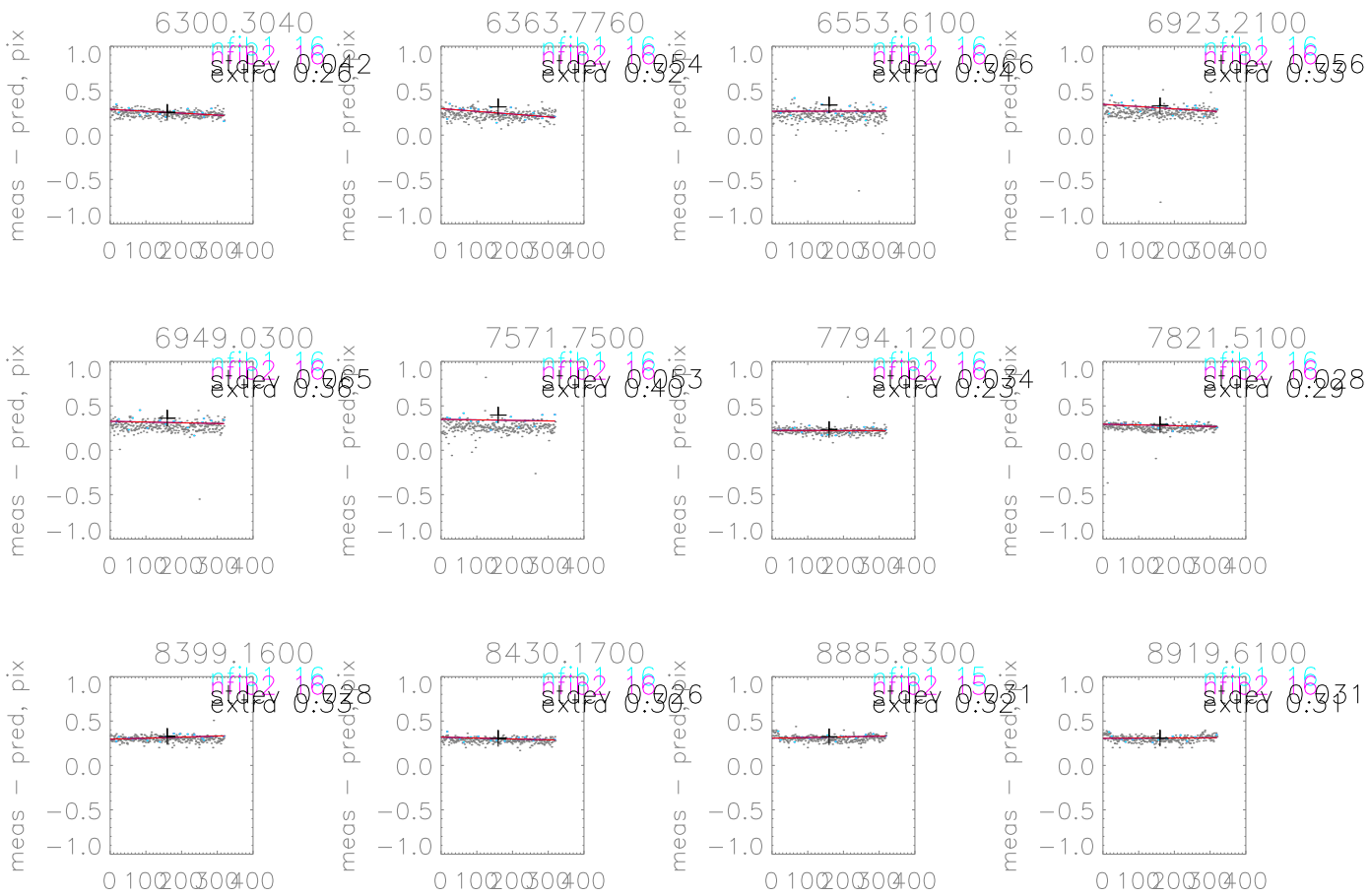

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

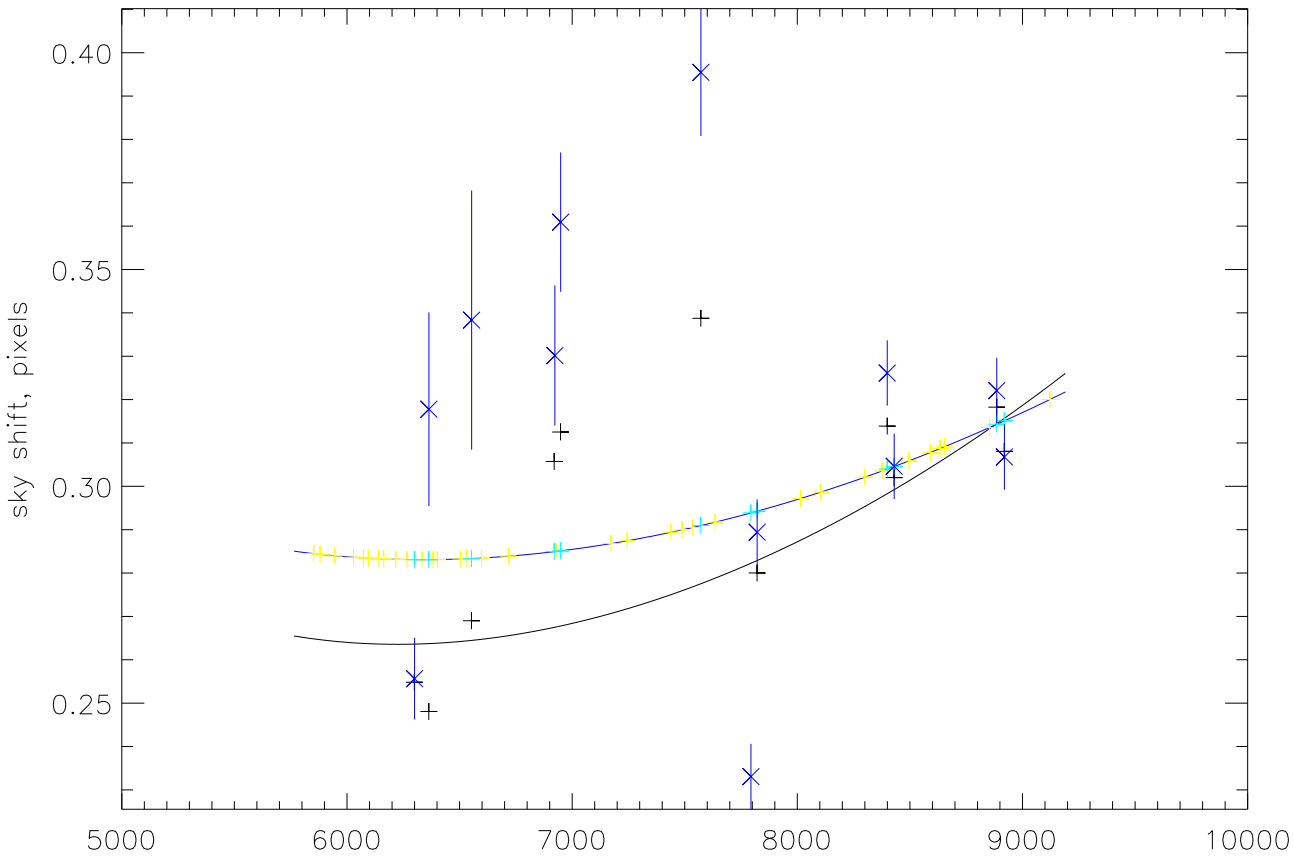

8399.1600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

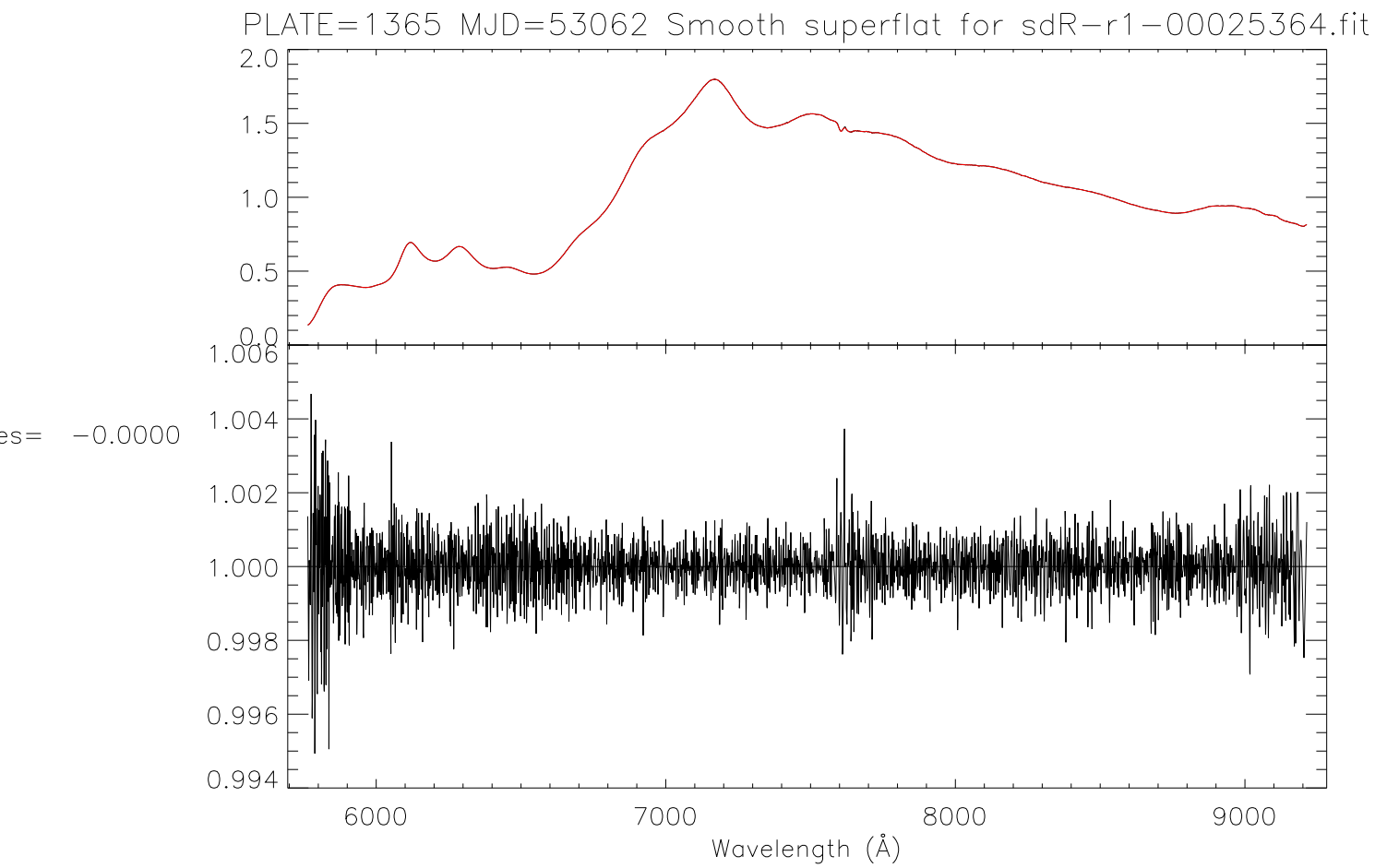

8430.1700
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

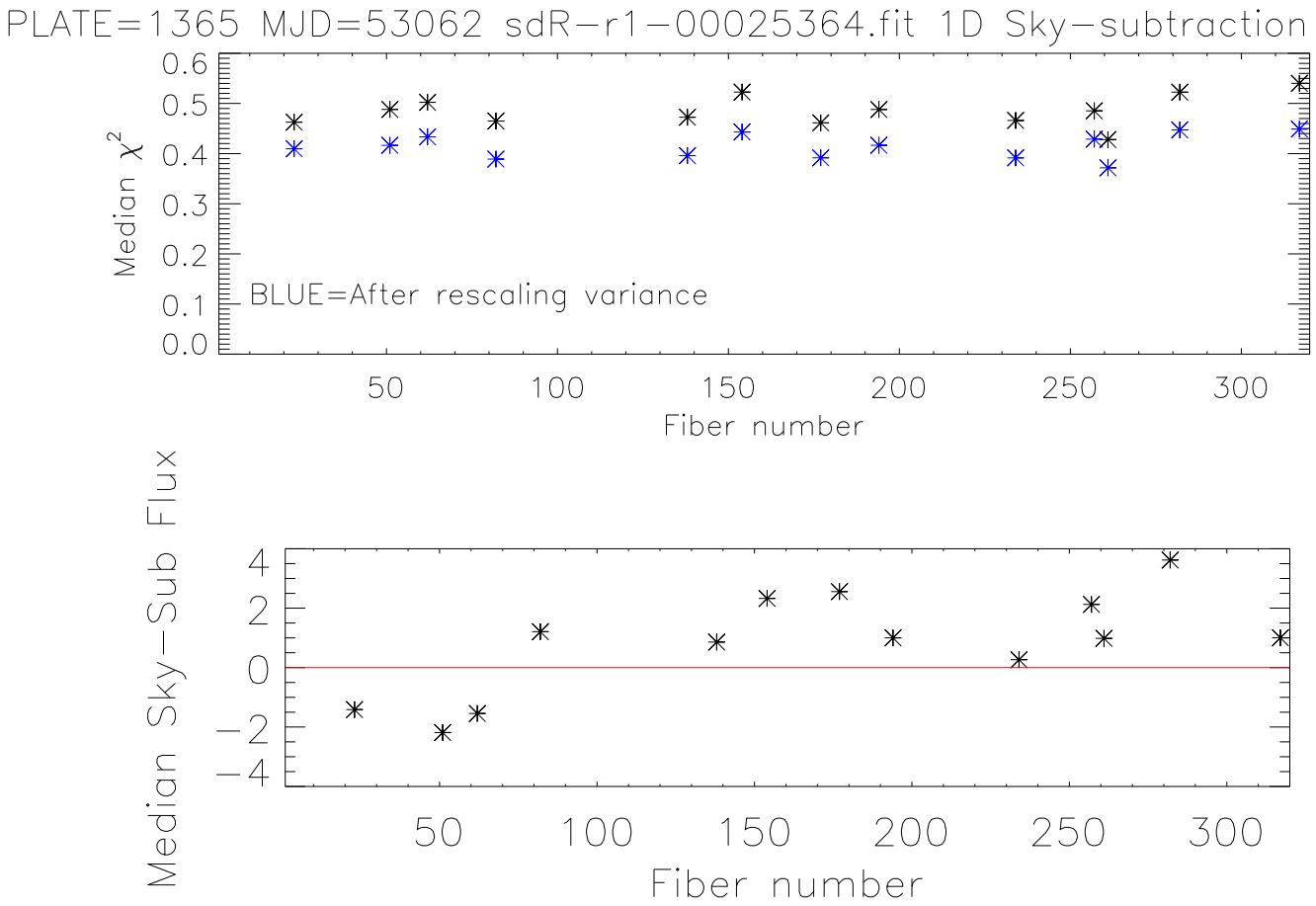

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

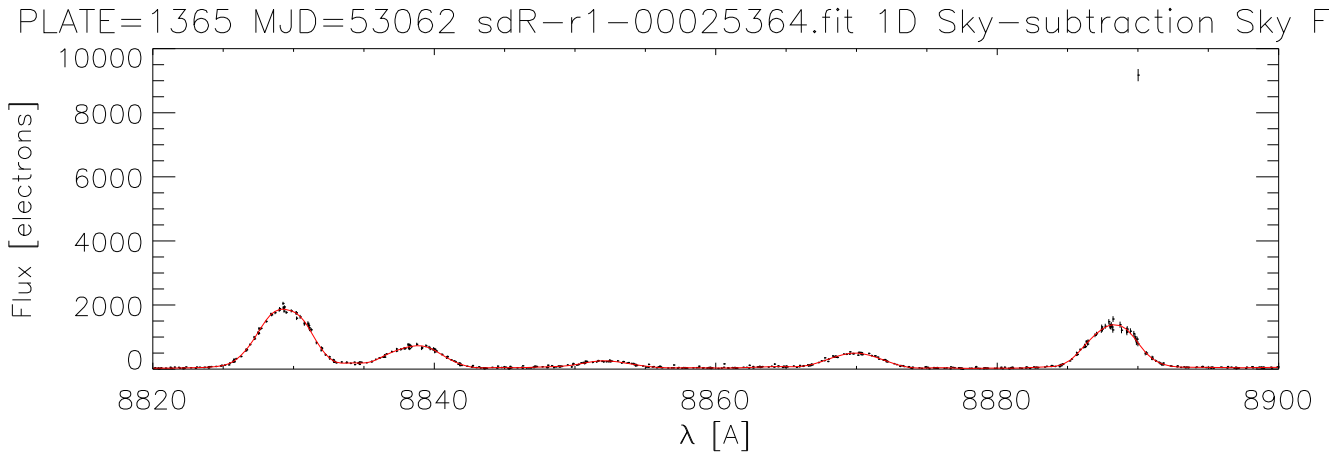

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

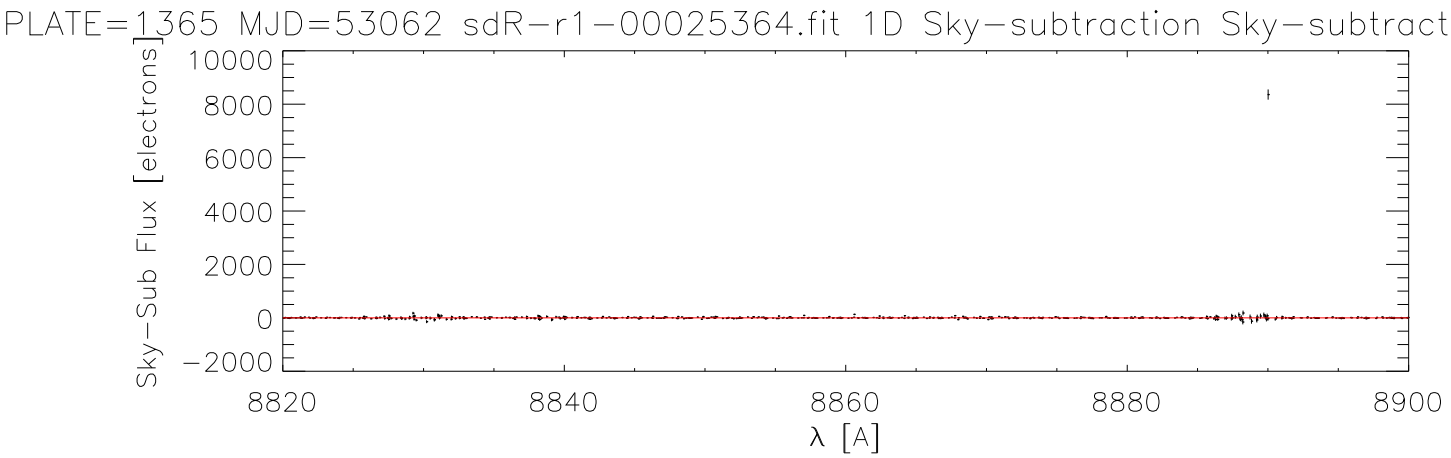

6300.3040
stdev 0.042
extra 0.26
6363.7760
stdev 0.054
extra 0.32
6553.6100
stdev 0.046
extra 0.34
6923.2100
stdev 0.056
extra 0.33
6949.0300
stdev 0.065
extra 0.36
7571.7500
stdev 0.053
extra 0.40
7794.1200
stdev 0.034
extra 0.23
7821.5100
stdev 0.028
extra 0.29
8399.1600
stdev 0.028
extra 0.33
8430.1700
stdev 0.026
extra 0.30
8885.8300
stdev 0.031
extra 0.32
8919.6100
stdev 0.031
extra 0.31
meas − pred, pix

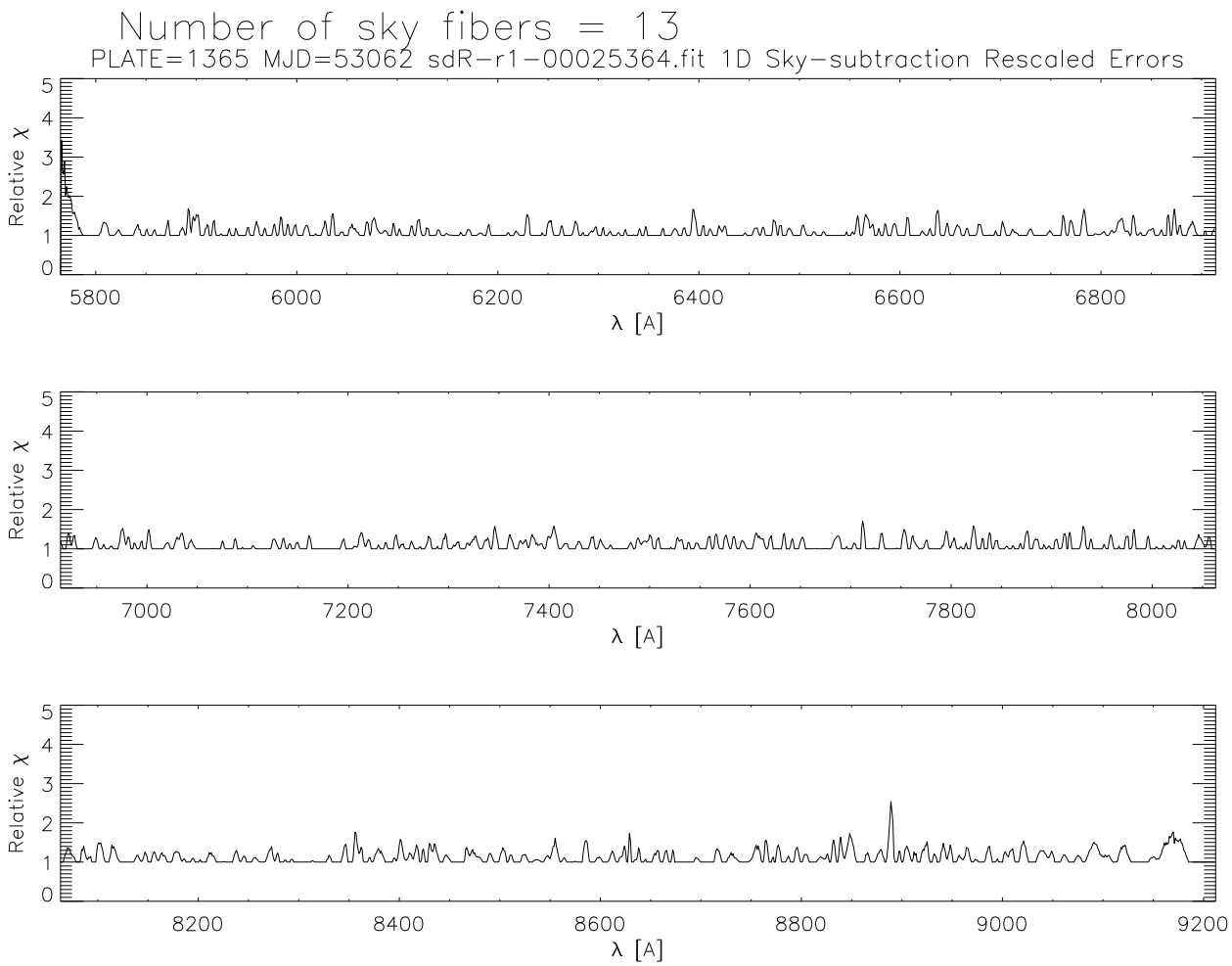

0.40
0.35
0.30
0.25
sky shift, pixels
5000
6000
7000
8000
9000
10000

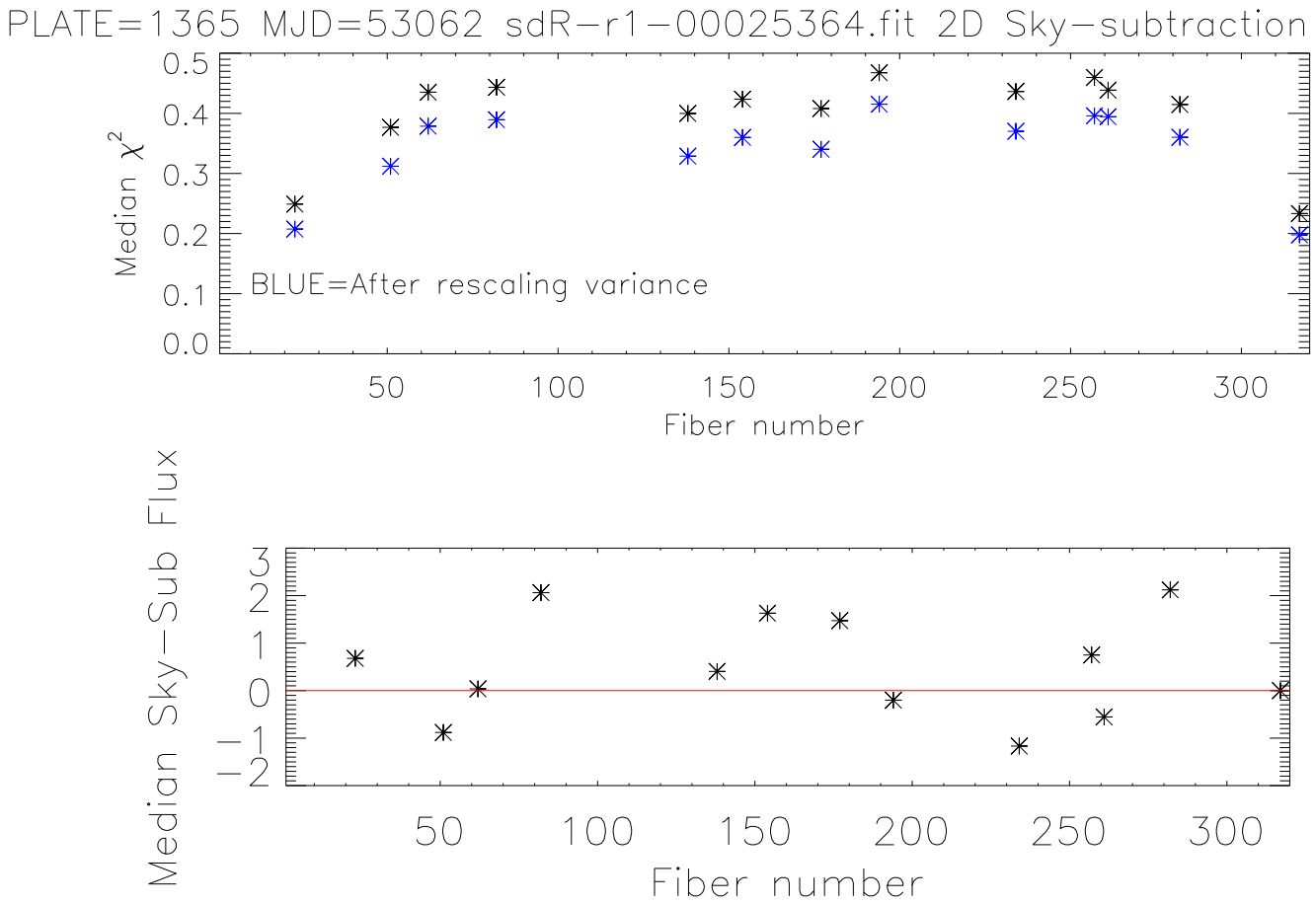

PLATE=1365 MJD=53062 Smooth superflat for sdR-r1-00025364.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

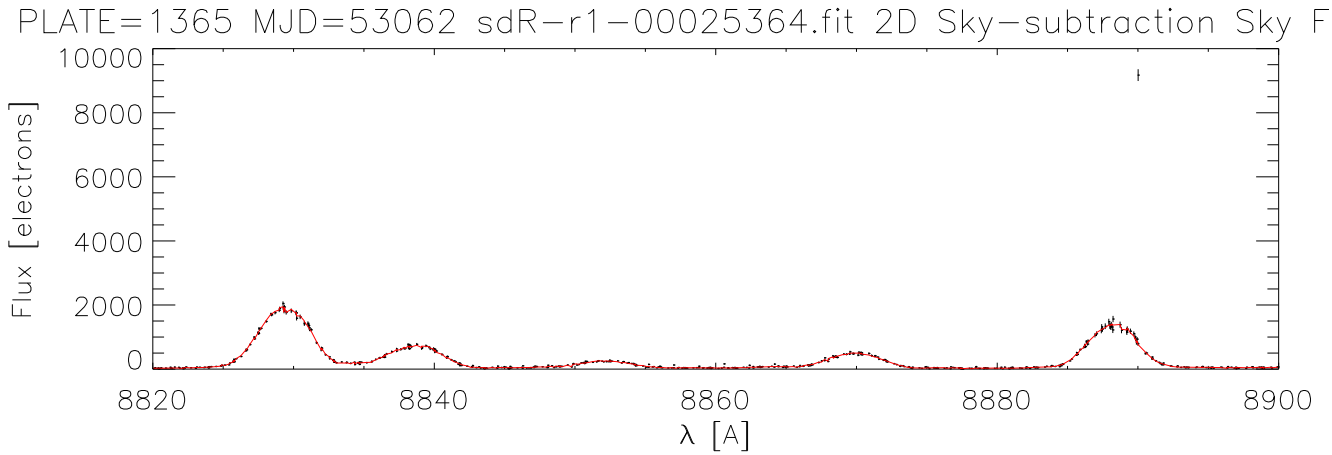

PLATE=1365 MJD=53062 sdR-r1-00025364.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

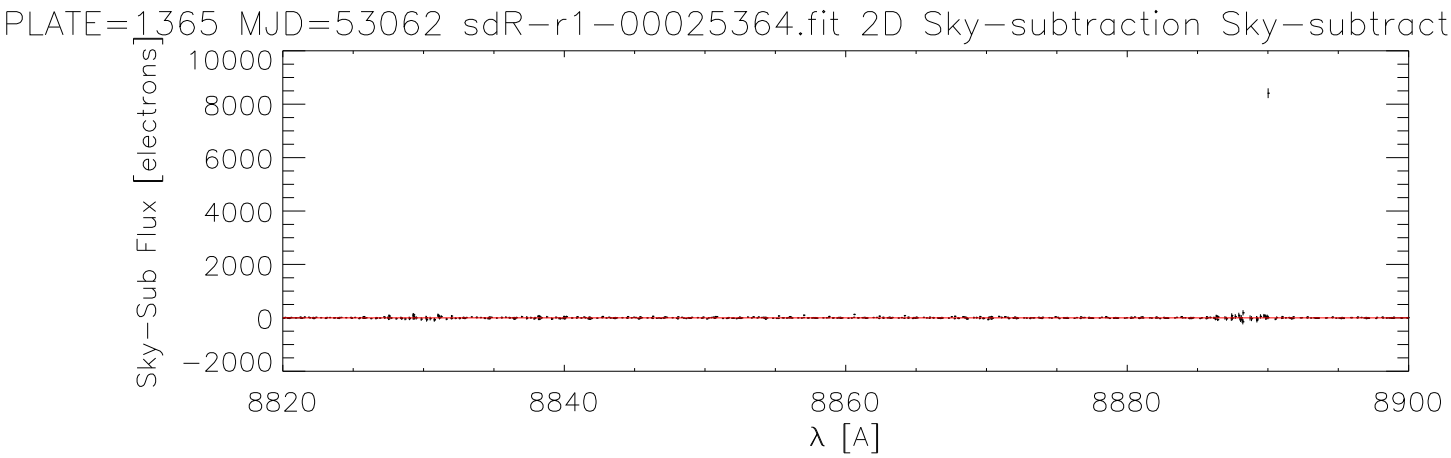

PLATE=1365 MJD=53062 sdR-r1-00025364.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

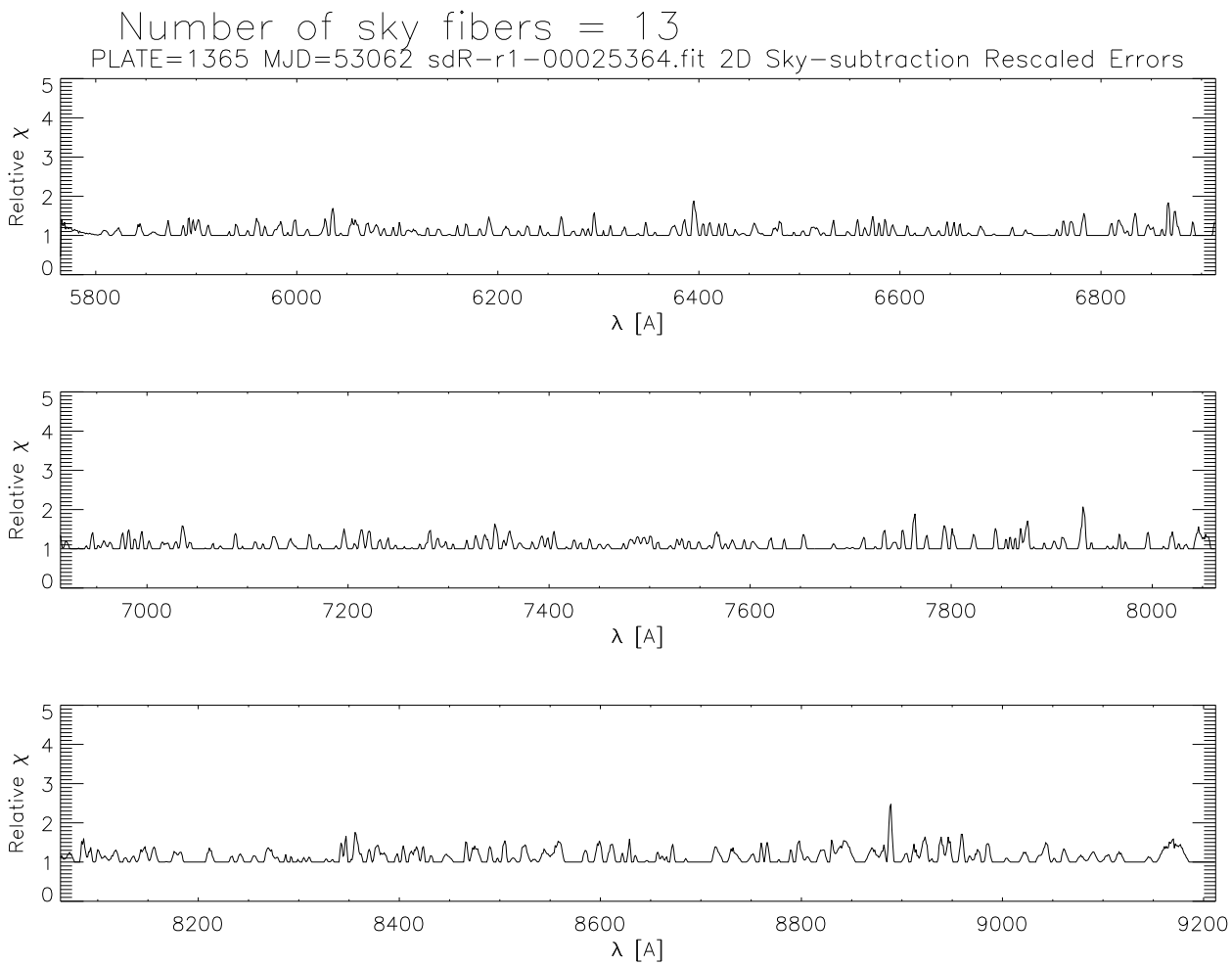

PLATE=1365 MJD=53062 sdR-r1-00025364.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

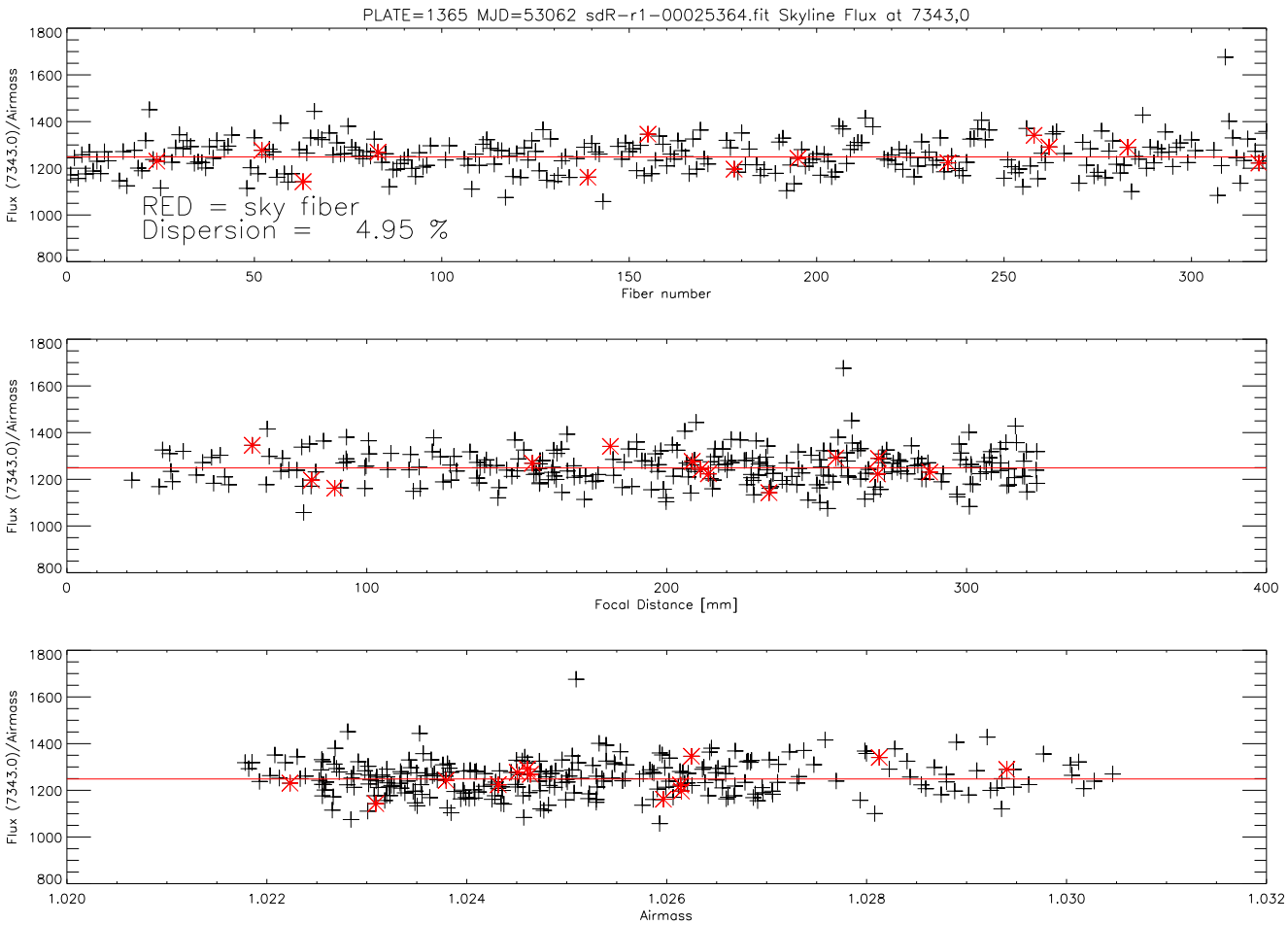

Number of sky fibers = 13
PLATE=1365 MJD=53062 sdR-r1-00025364.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

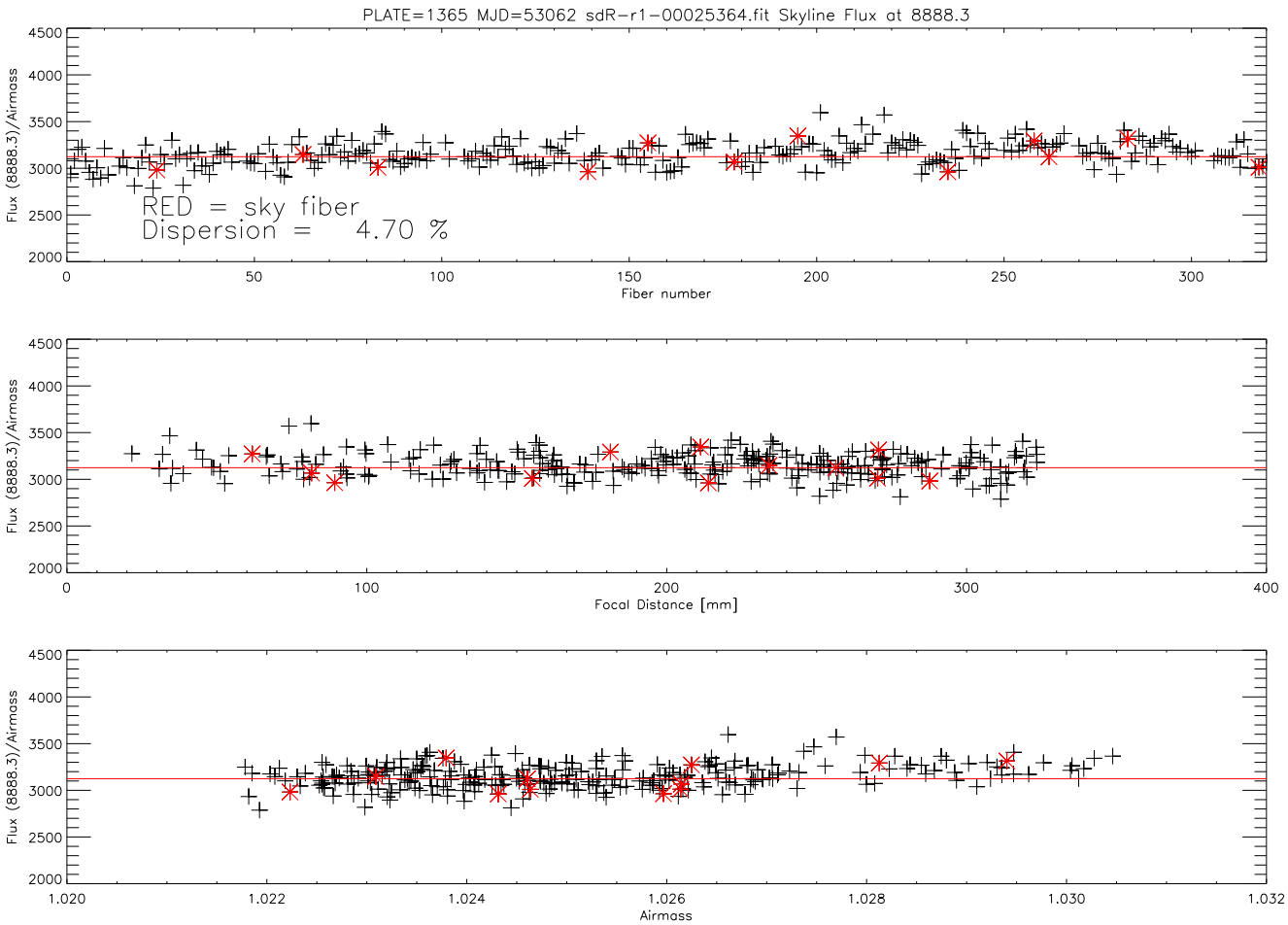

PLATE=1365 MJD=53062 sdR-r1-00025364.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

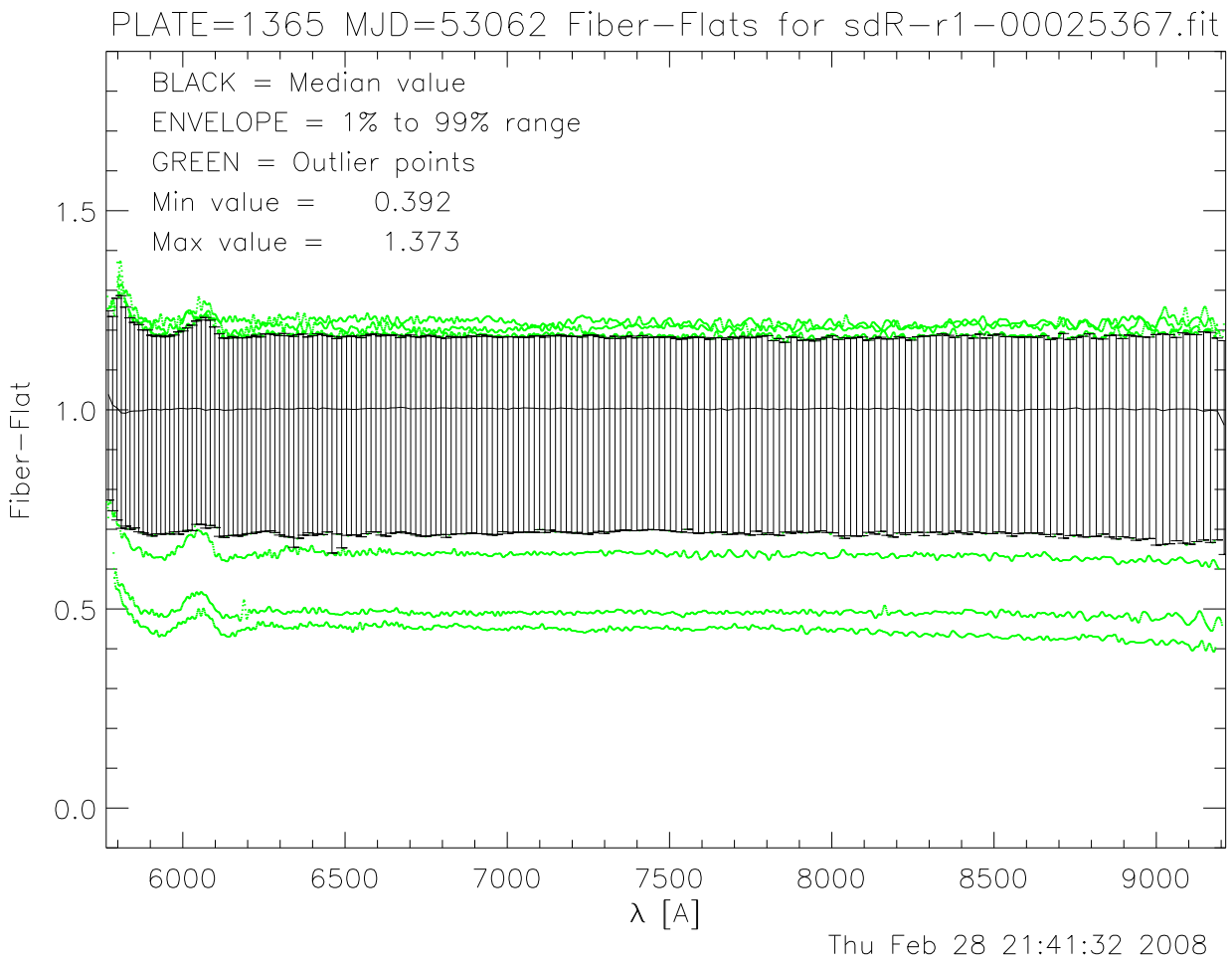

PLATE=1365 MJD=53062 sdR-r1-00025364.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

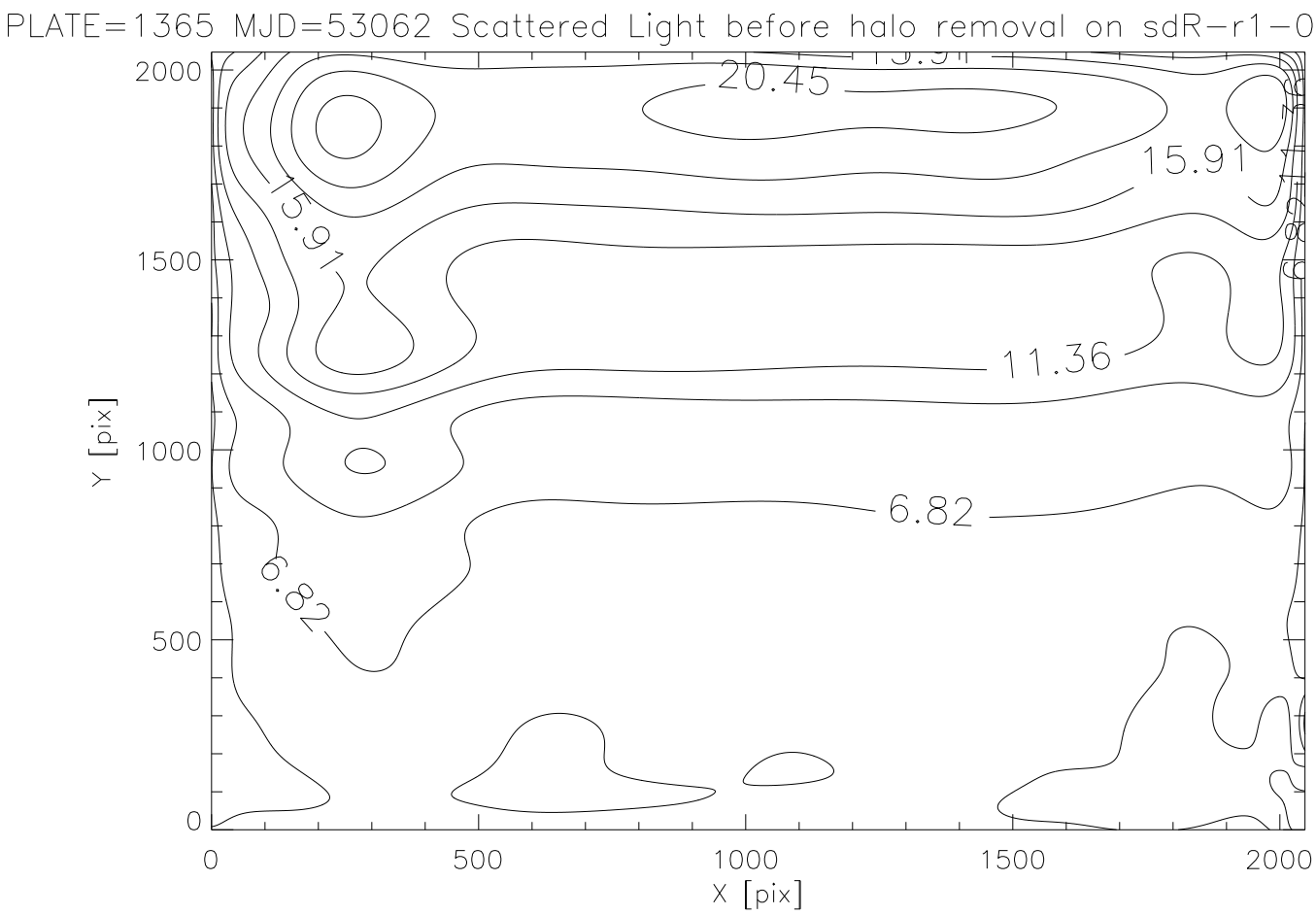

PLATE=1365 MJD=53062 sdR-r1-00025364.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
10000
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

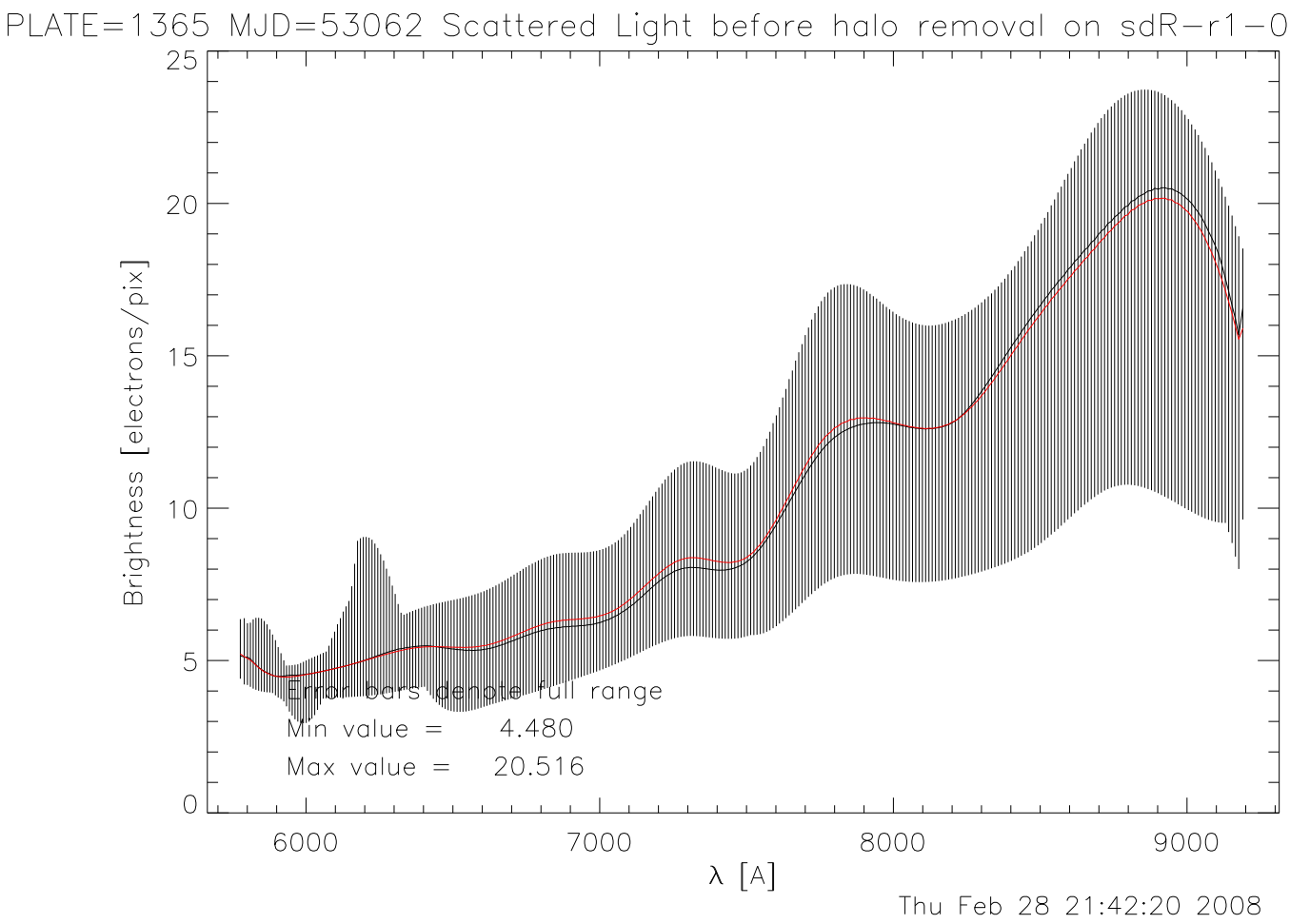

Number of sky fibers = 13
PLATE=1365 MJD=53062 sdR-r1-00025364.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

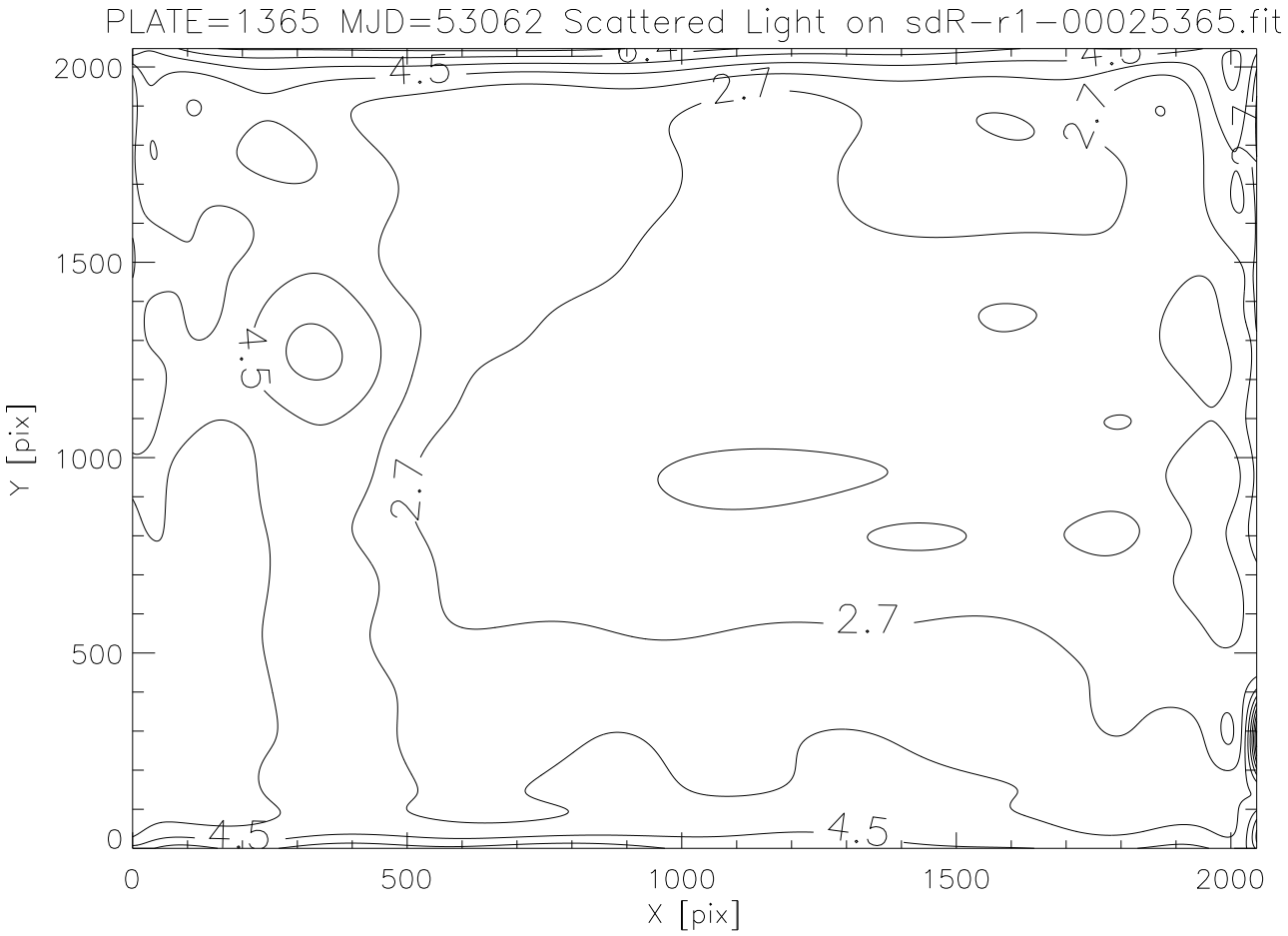

PLATE=1365 MJD=53062 sdR-r1-00025364.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.95 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

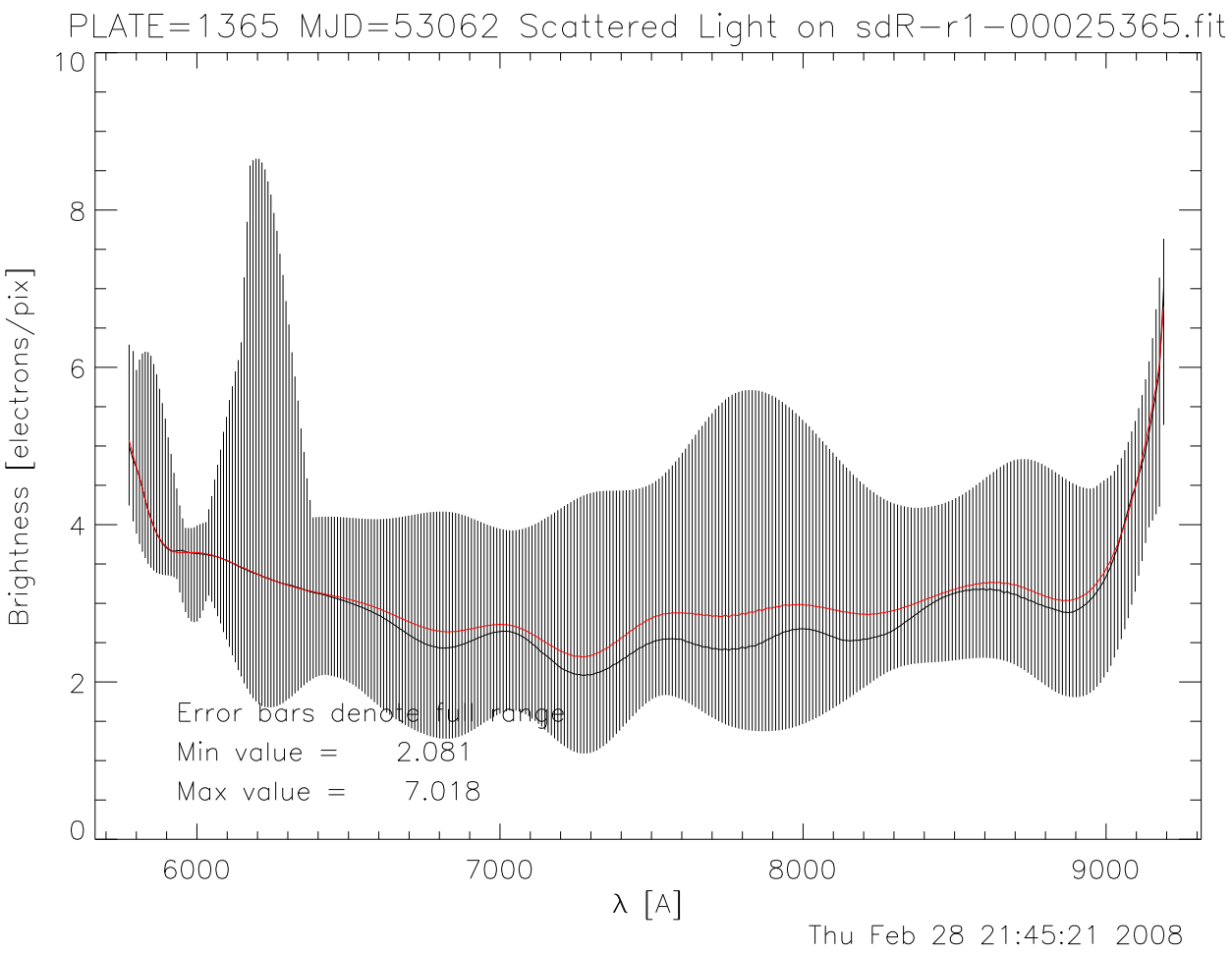

PLATE=1365 MJD=53062 sdR-r1-00025364.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.70 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

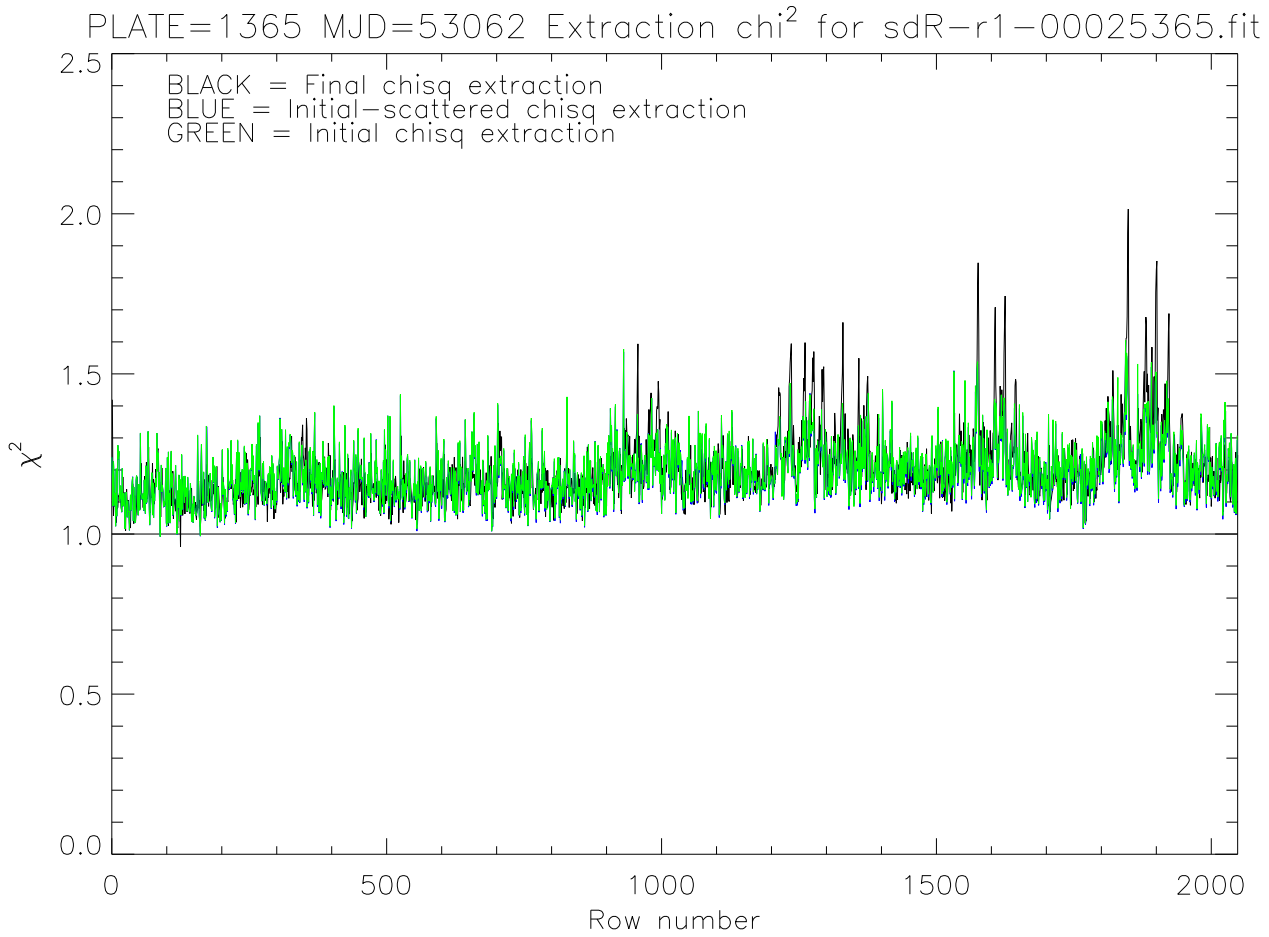

PLATE=1365 MJD=53062 Fiber−Flats for sdR−r1−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.392
Max value = 1.373
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 21:41:32 2008

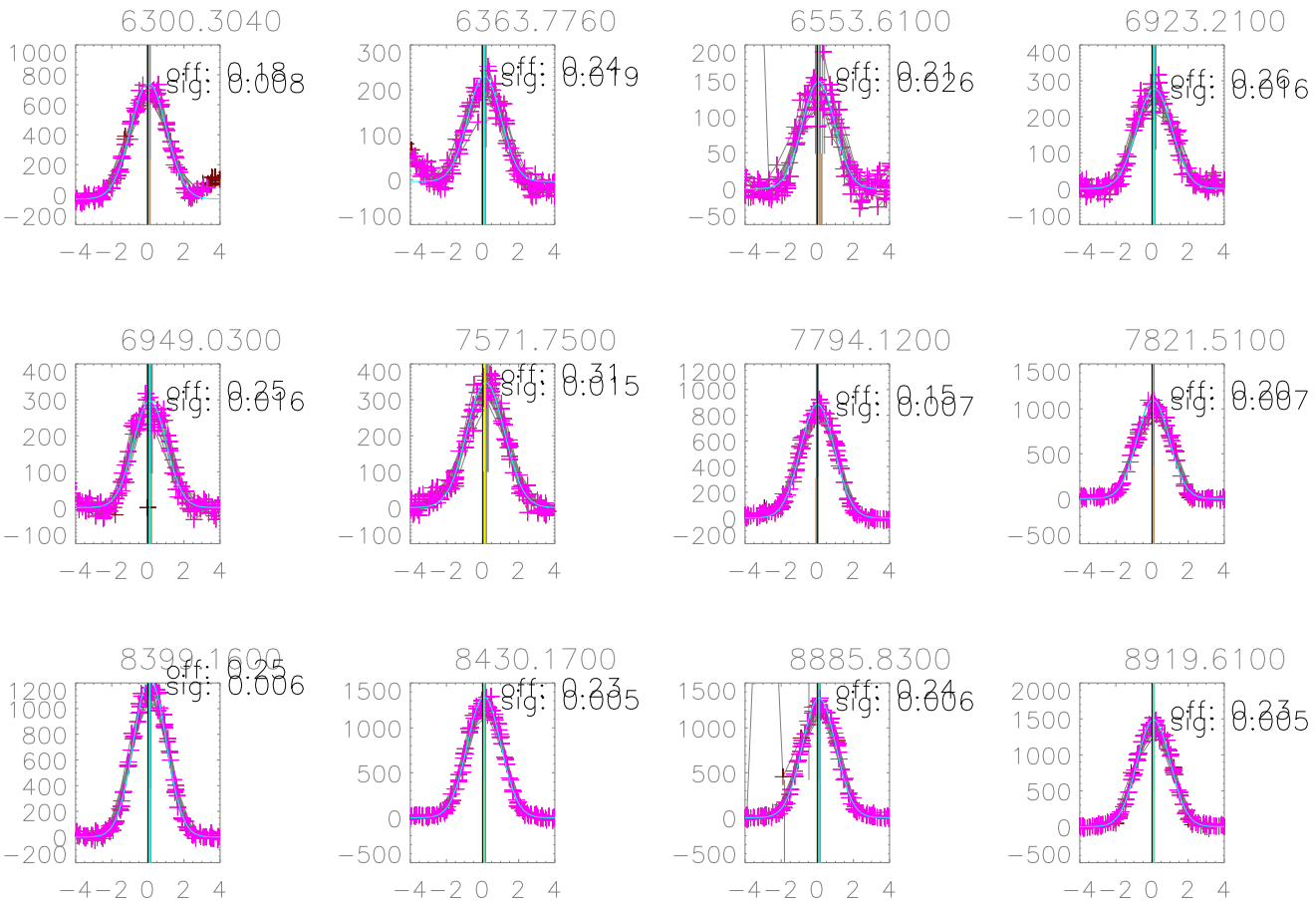

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r1-00025365.fi
20.45
15.91
15.91
11.36
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

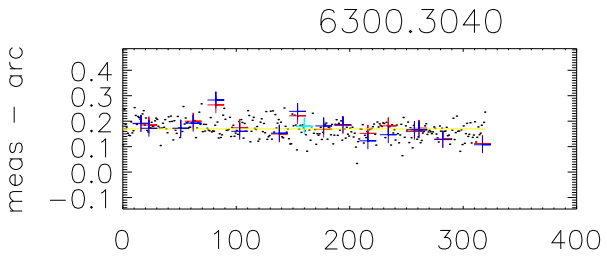

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r1-00025365.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.480
Max value = 20.516
Thu Feb 28 21:42:20 2008

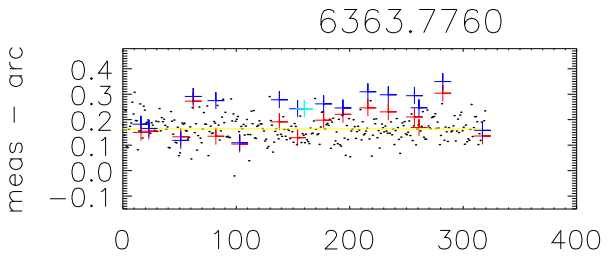

PLATE=1365 MJD=53062 Scattered Light on sdR-r1-00025365.fit
4.5
2.7
2.7
4.5
2.7
2.7
4.5
4.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

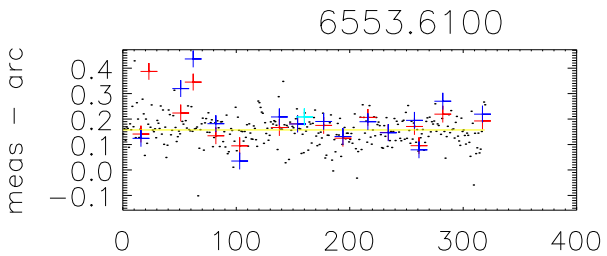

PLATE=1365 MJD=53062 Scattered Light on sdR-r1-00025365.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.081
Max value = 7.018
Thu Feb 28 21:45:21 2008

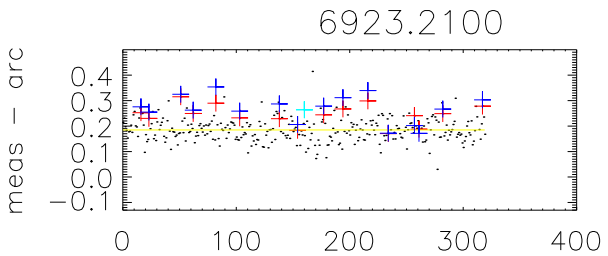

PLATE=1365 MJD=53062 Extraction chi^2 for sdR−r1−00025365.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

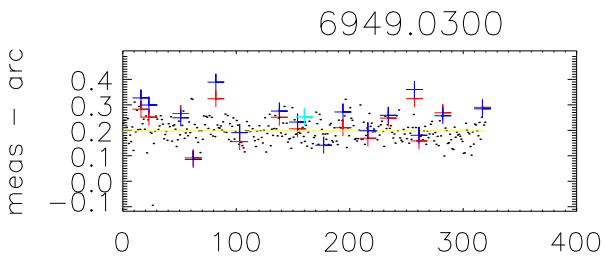

6300.3040
off: 0.18
sig: 0.008
6363.7760
off: 0.24
sig: 0.019
6553.6100
off: 0.21
sig: 0.026
6923.2100
off: 0.26
sig: 0.016
6949.0300
off: 0.25
sig: 0.016
7571.7500
off: 0.31
sig: 0.015
7794.1200
off: 0.15
sig: 0.007
7821.5100
off: 0.20
sig: 0.007
8399.1600
off: 0.25
sig: 0.006
8430.1700
off: 0.23
sig: 0.005
8885.8300
off: 0.24
sig: 0.006
8919.6100
off: 0.23
sig: 0.005

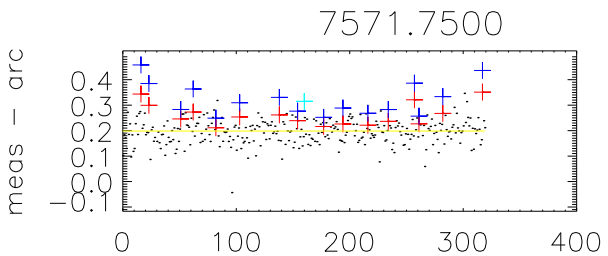

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

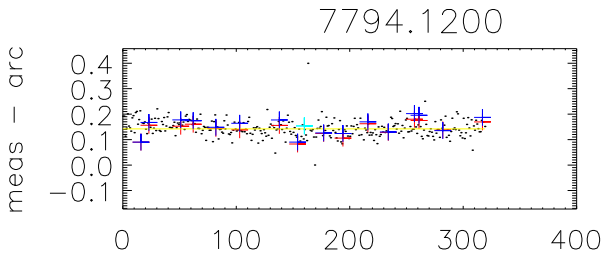

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

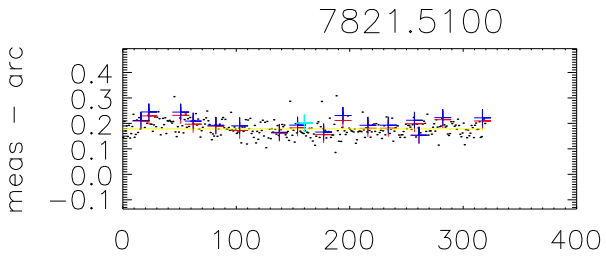

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

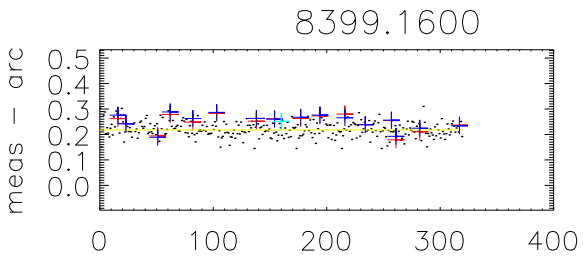

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

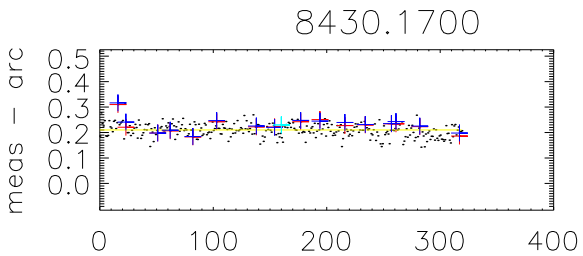

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

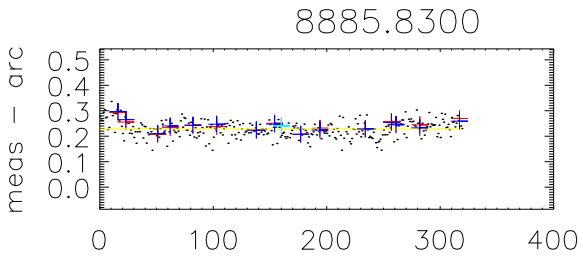

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

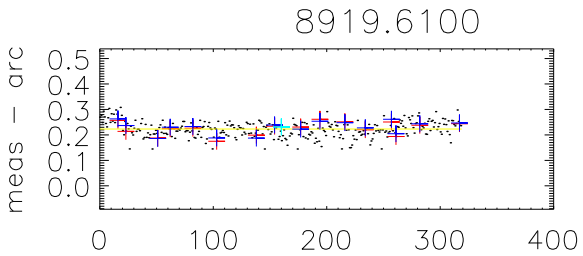

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

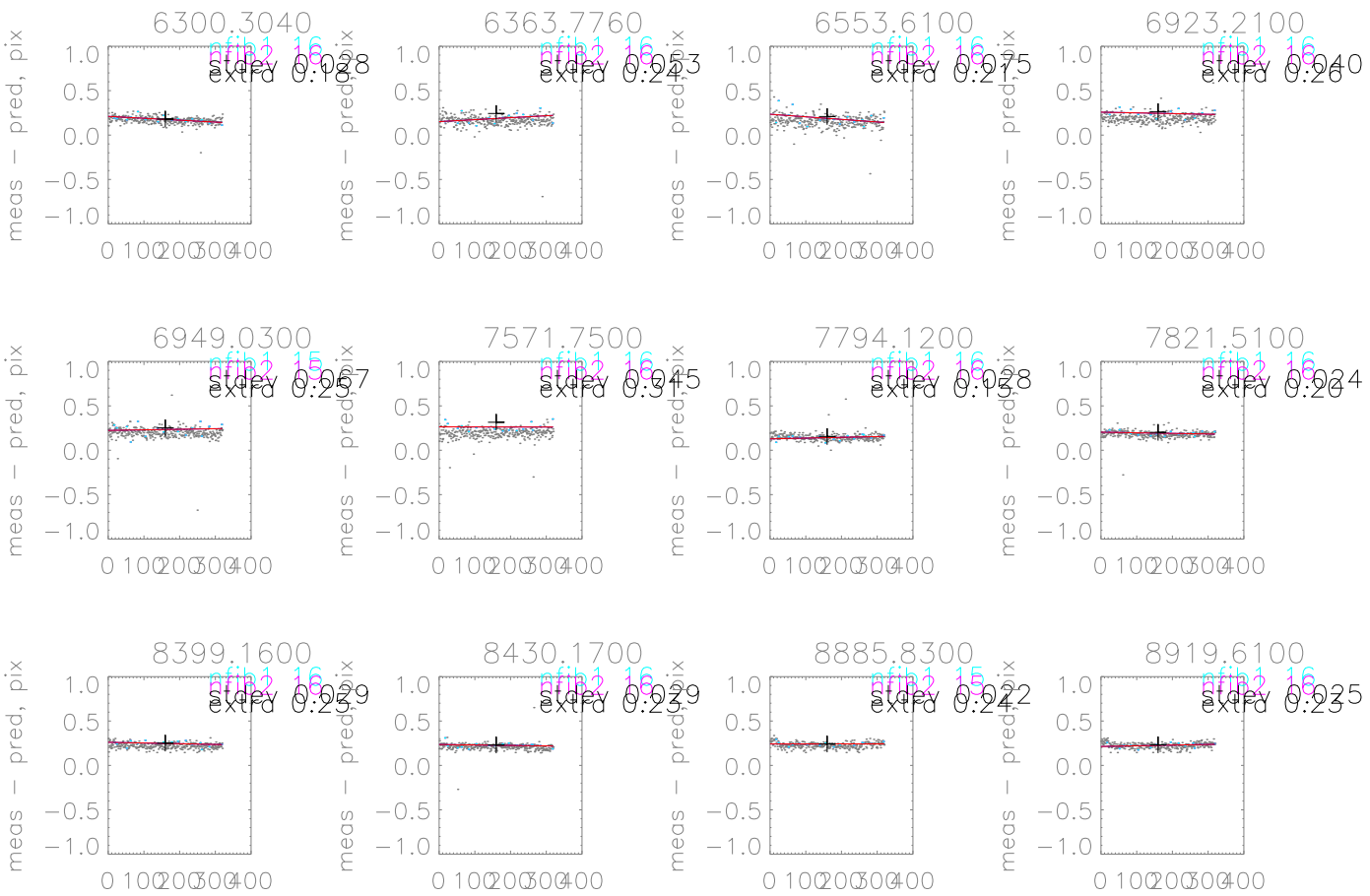

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

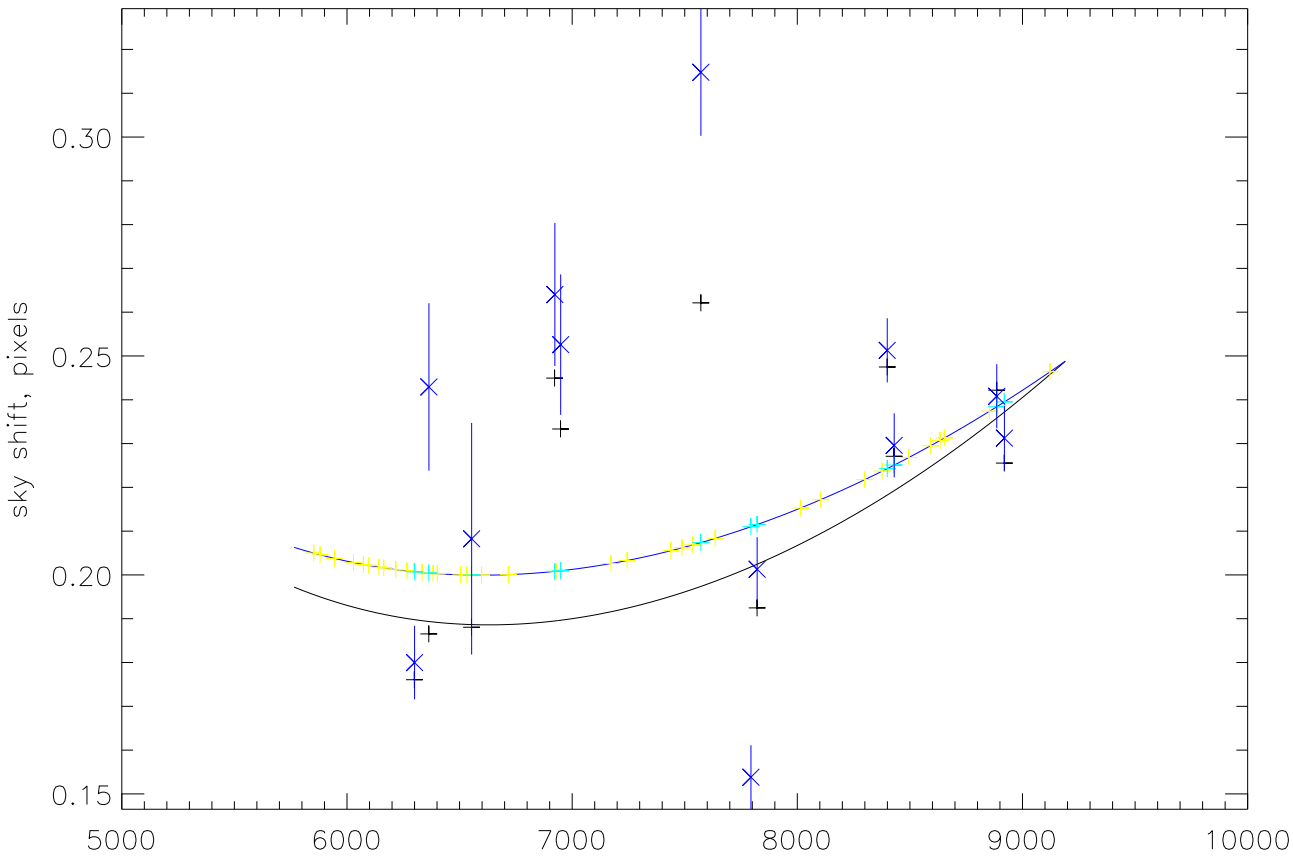

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

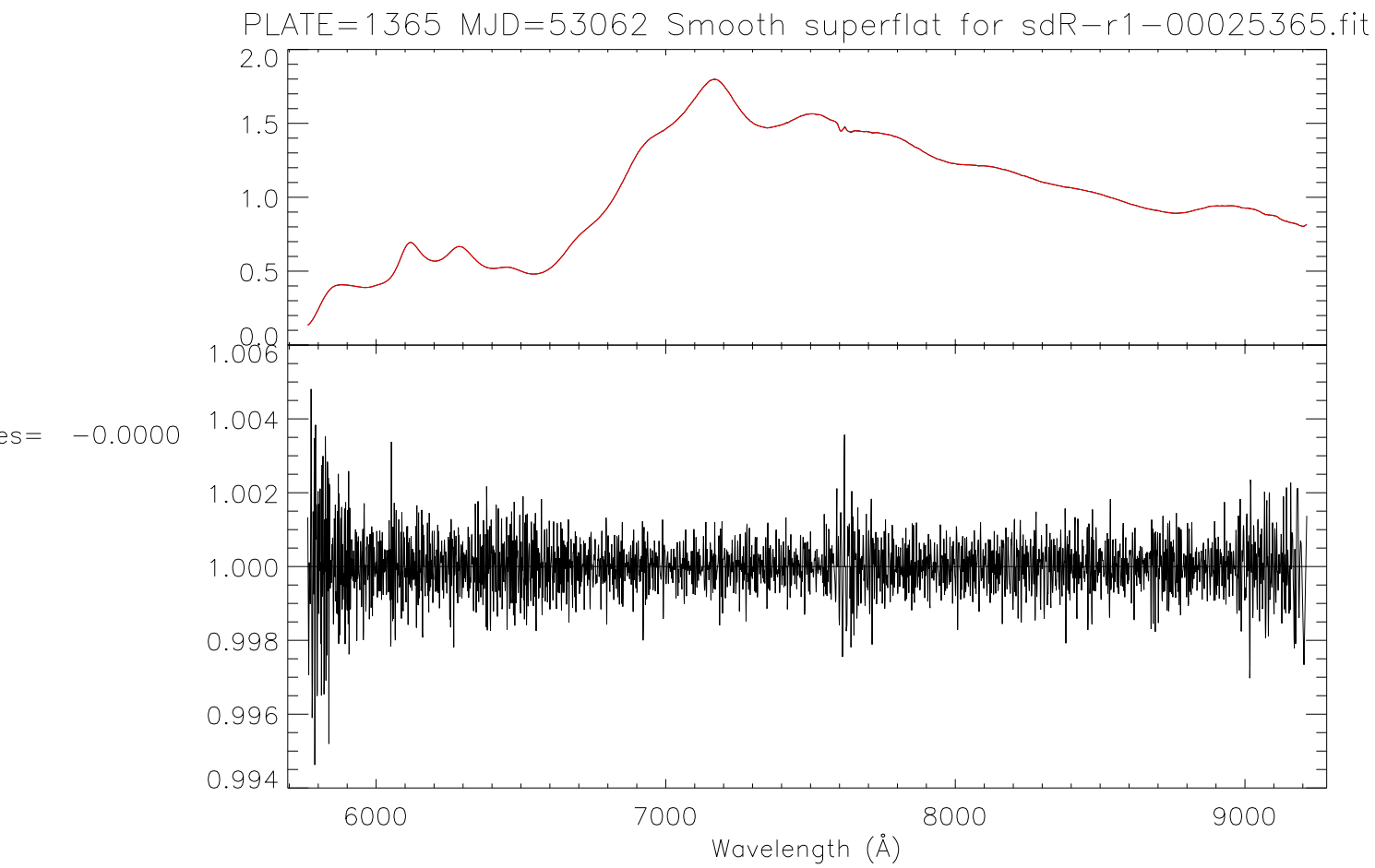

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

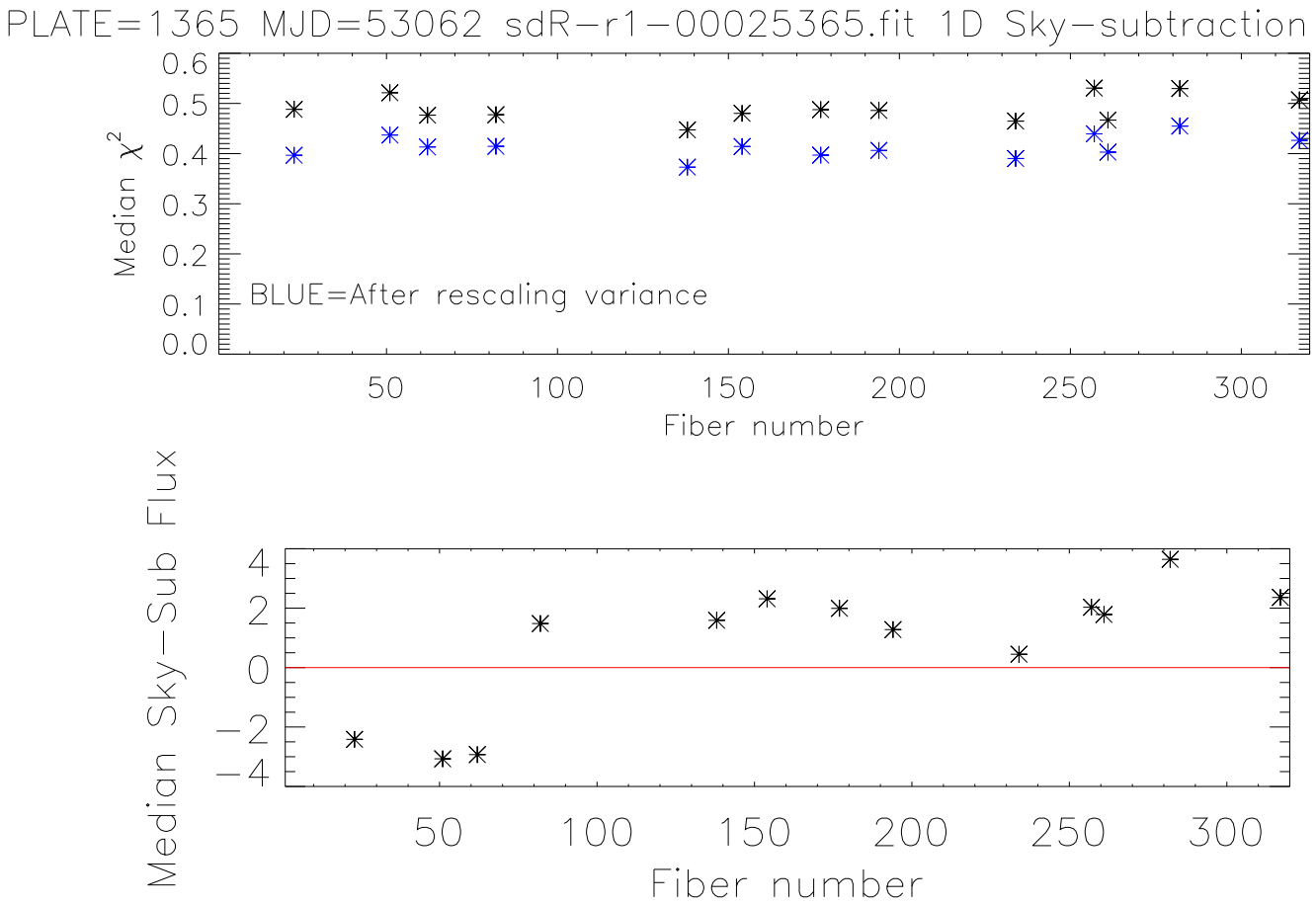

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

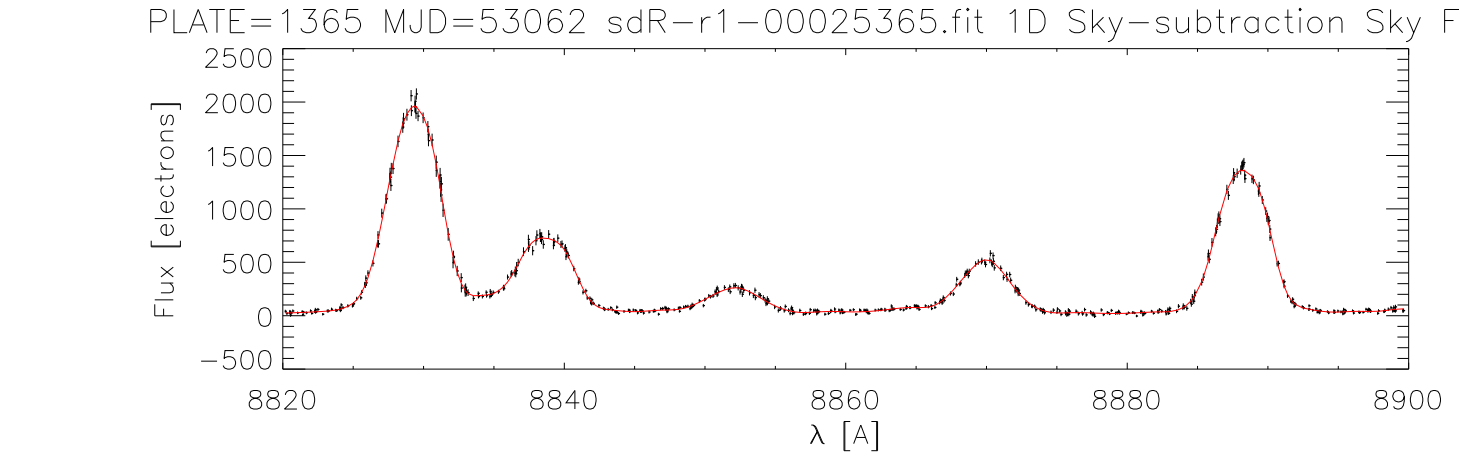

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

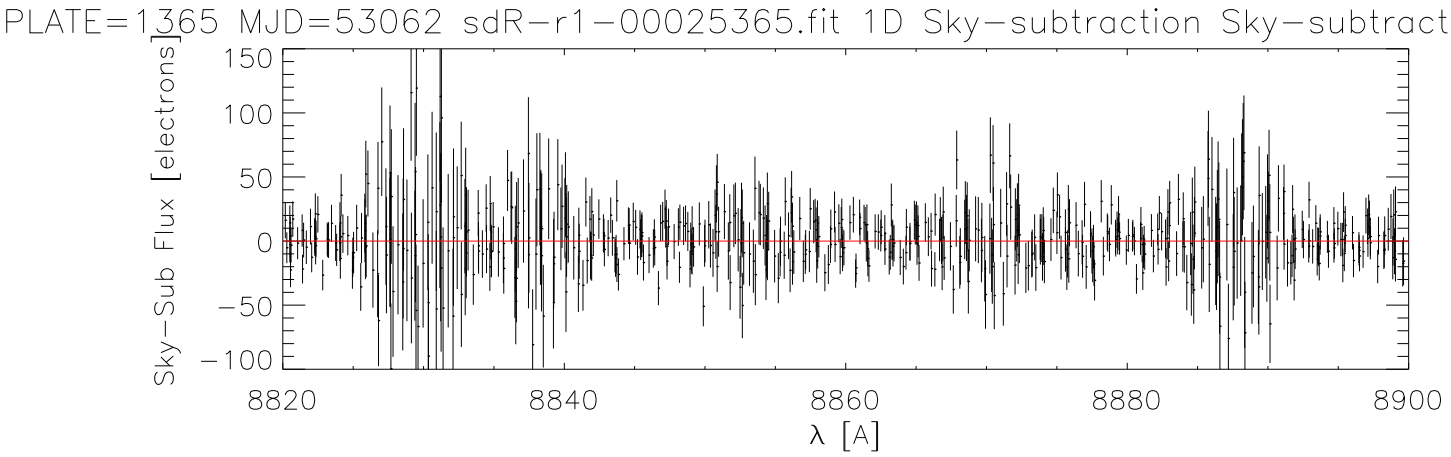

6300.3040
stdev 0.028
extra 0.18
6363.7760
stdev 0.053
extra 0.24
6553.6100
stdev 0.075
extra 0.21
6923.2100
stdev 0.040
extra 0.26
6949.0300
stdev 0.067
extra 0.25
7571.7500
stdev 0.045
extra 0.31
7794.1200
stdev 0.028
extra 0.15
7821.5100
stdev 0.024
extra 0.20
8399.1600
stdev 0.029
extra 0.23
8430.1700
stdev 0.029
extra 0.23
8885.8300
stdev 0.022
extra 0.24
8919.6100
stdev 0.025
extra 0.23
meas − pred, pix

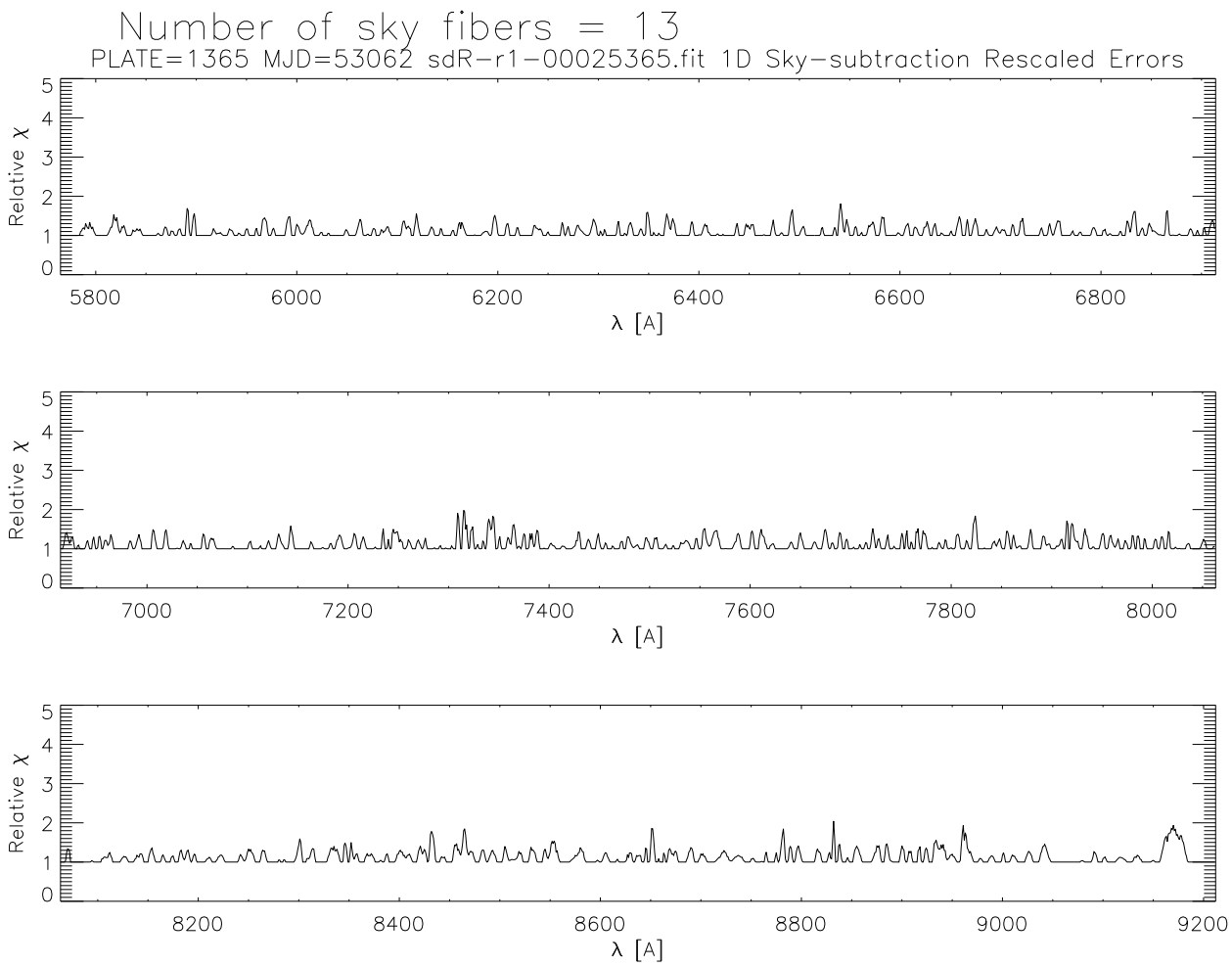

sky shift, pixels
0.30
0.25
0.20
0.15
5000
6000
7000
8000
9000
10000

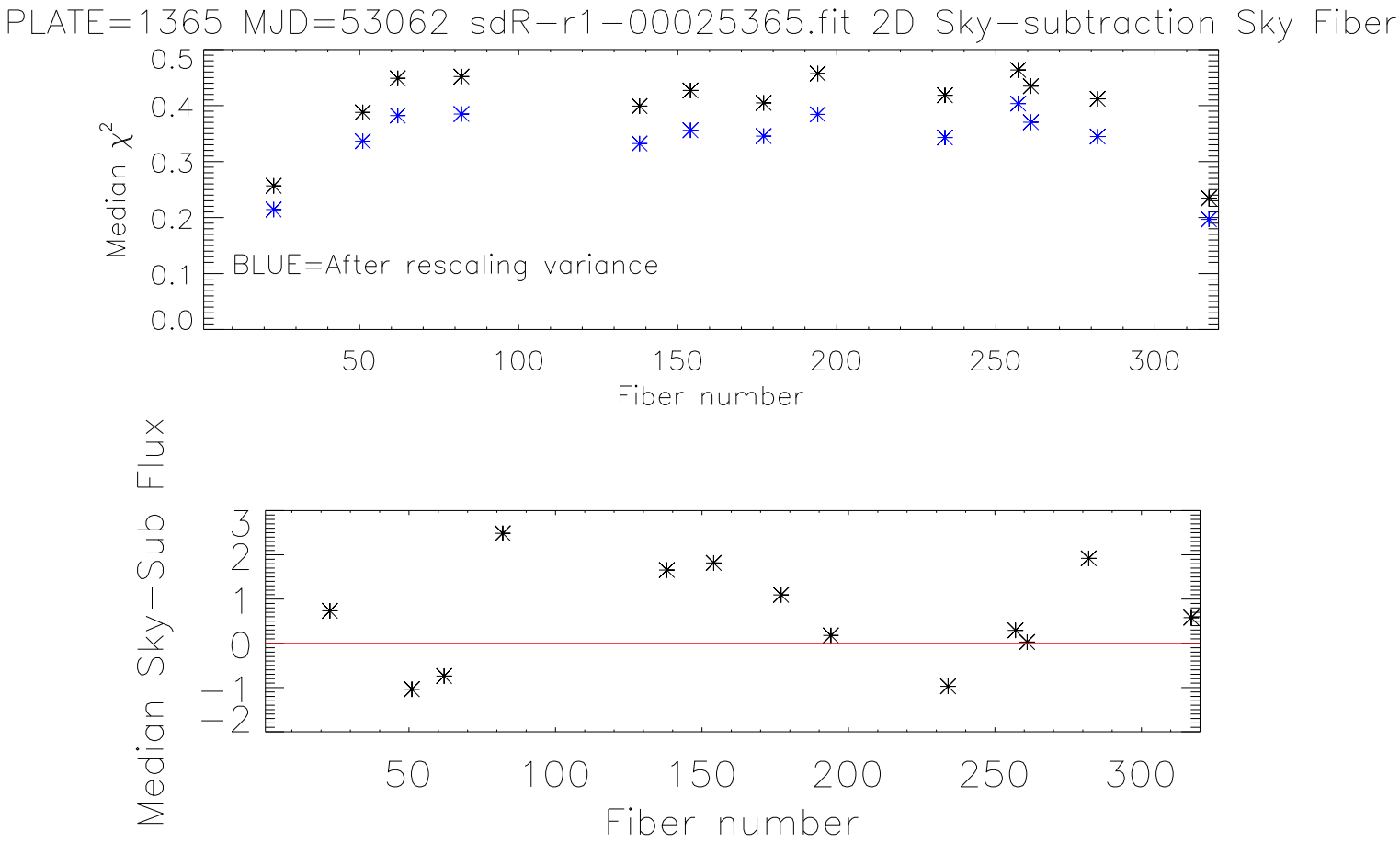

PLATE=1365 MJD=53062 Smooth superflat for sdR-r1-00025365.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

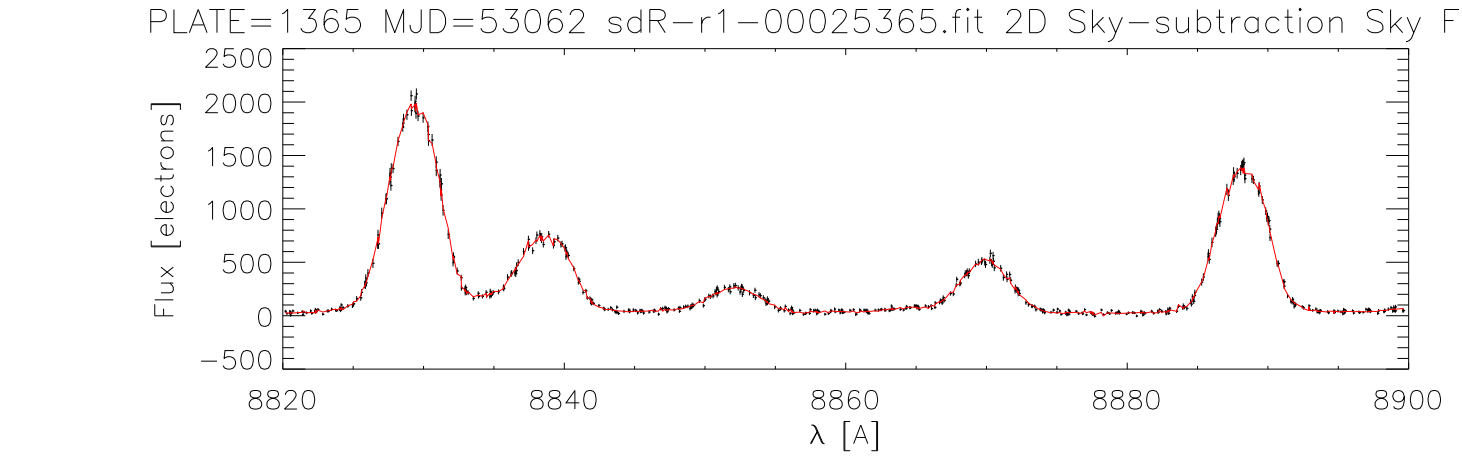

PLATE=1365 MJD=53062 sdR-r1-00025365.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

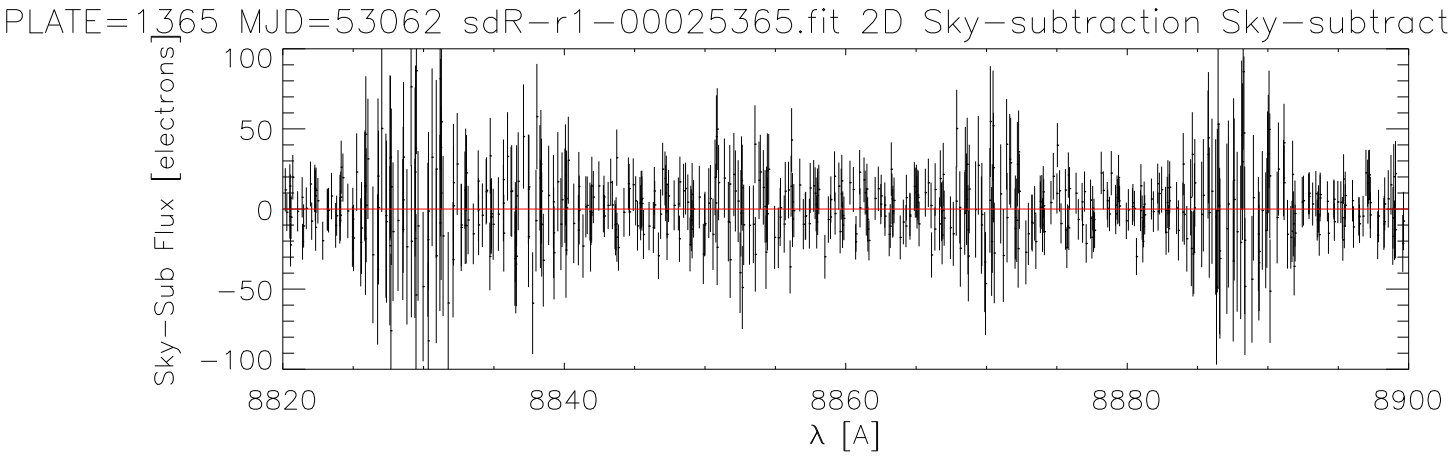

PLATE=1365 MJD=53062 sdR-r1-00025365.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

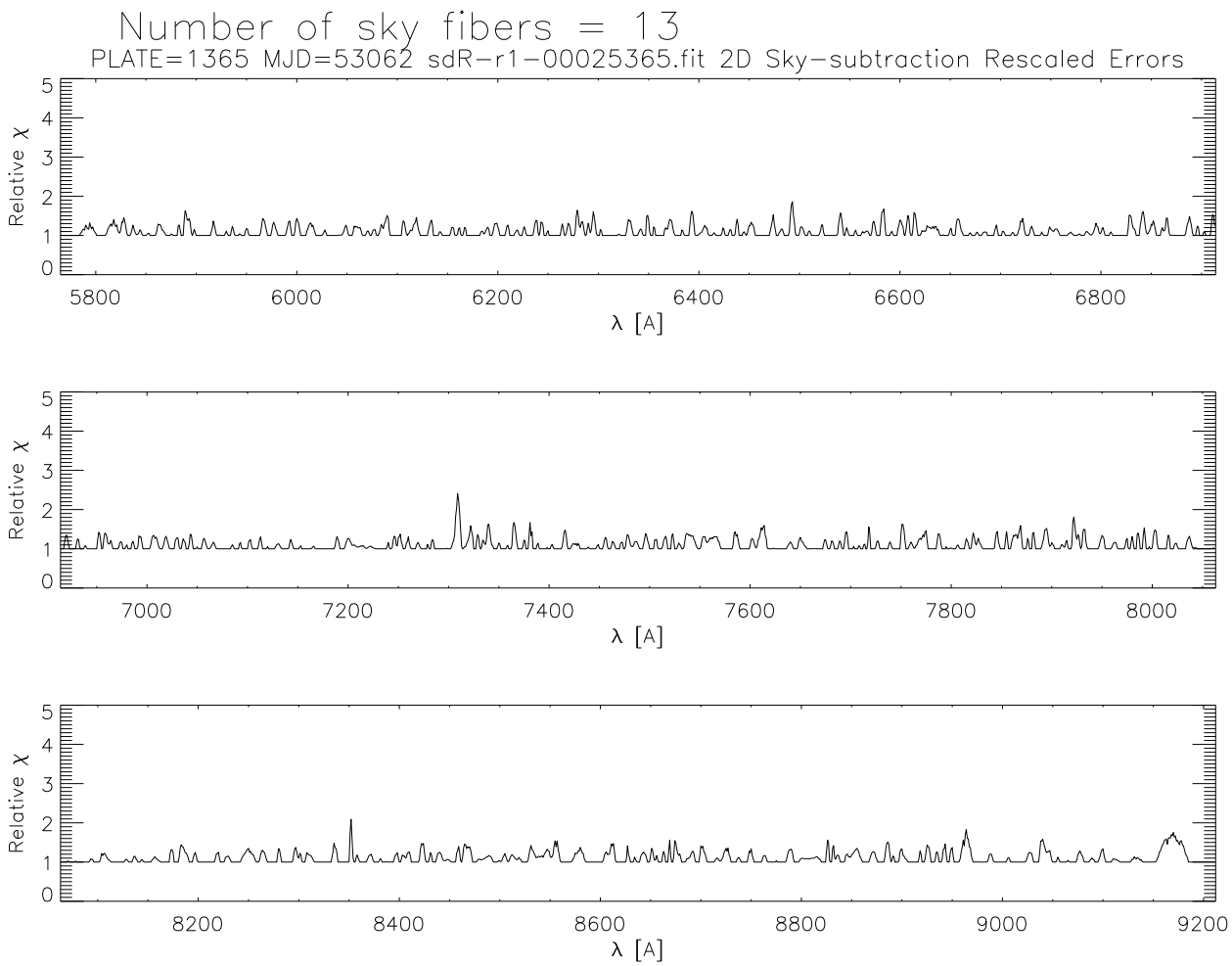

PLATE=1365 MJD=53062 sdR-r1-00025365.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

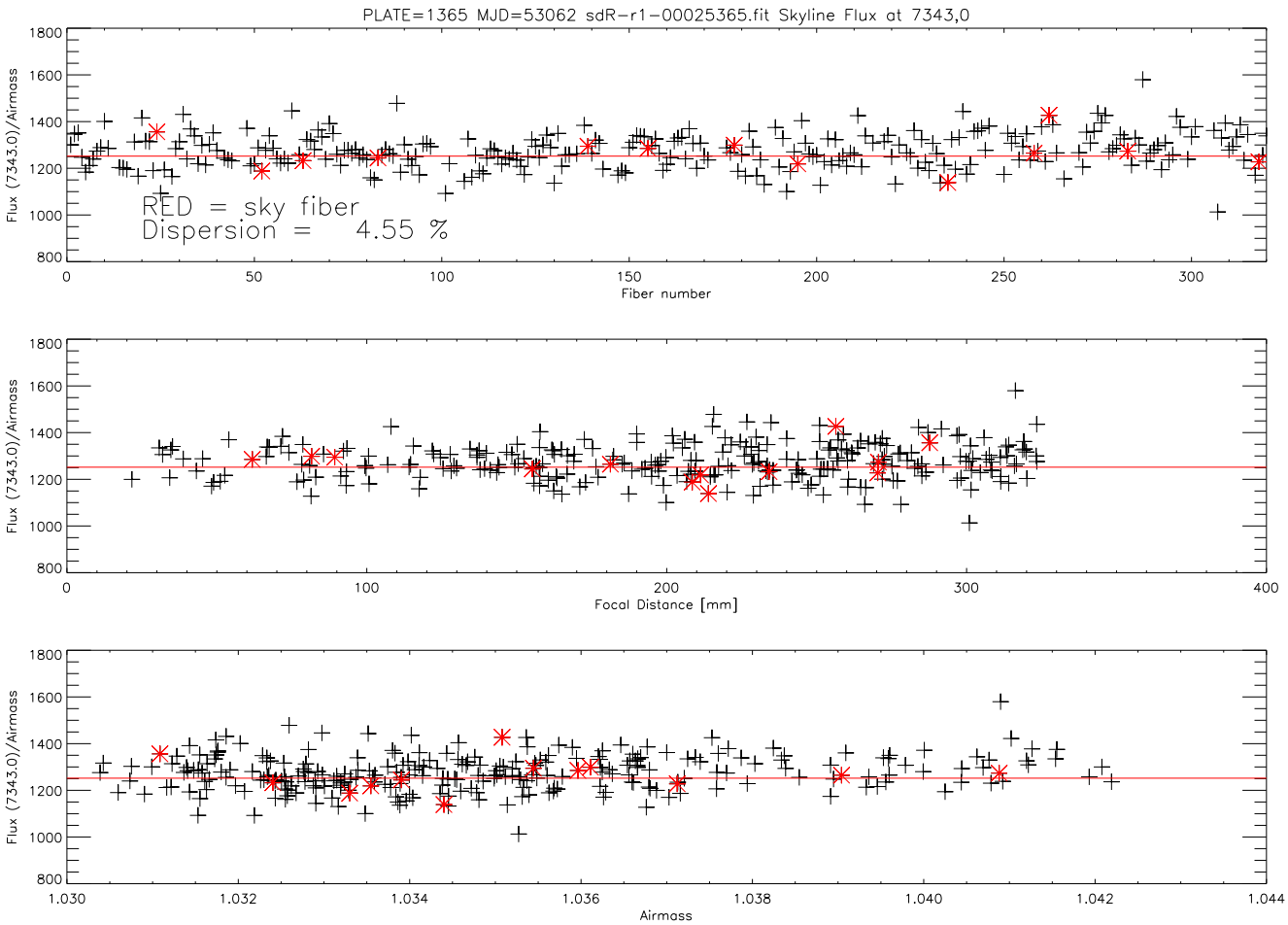

Number of sky fibers = 13
PLATE=1365 MJD=53062 sdR-r1-00025365.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

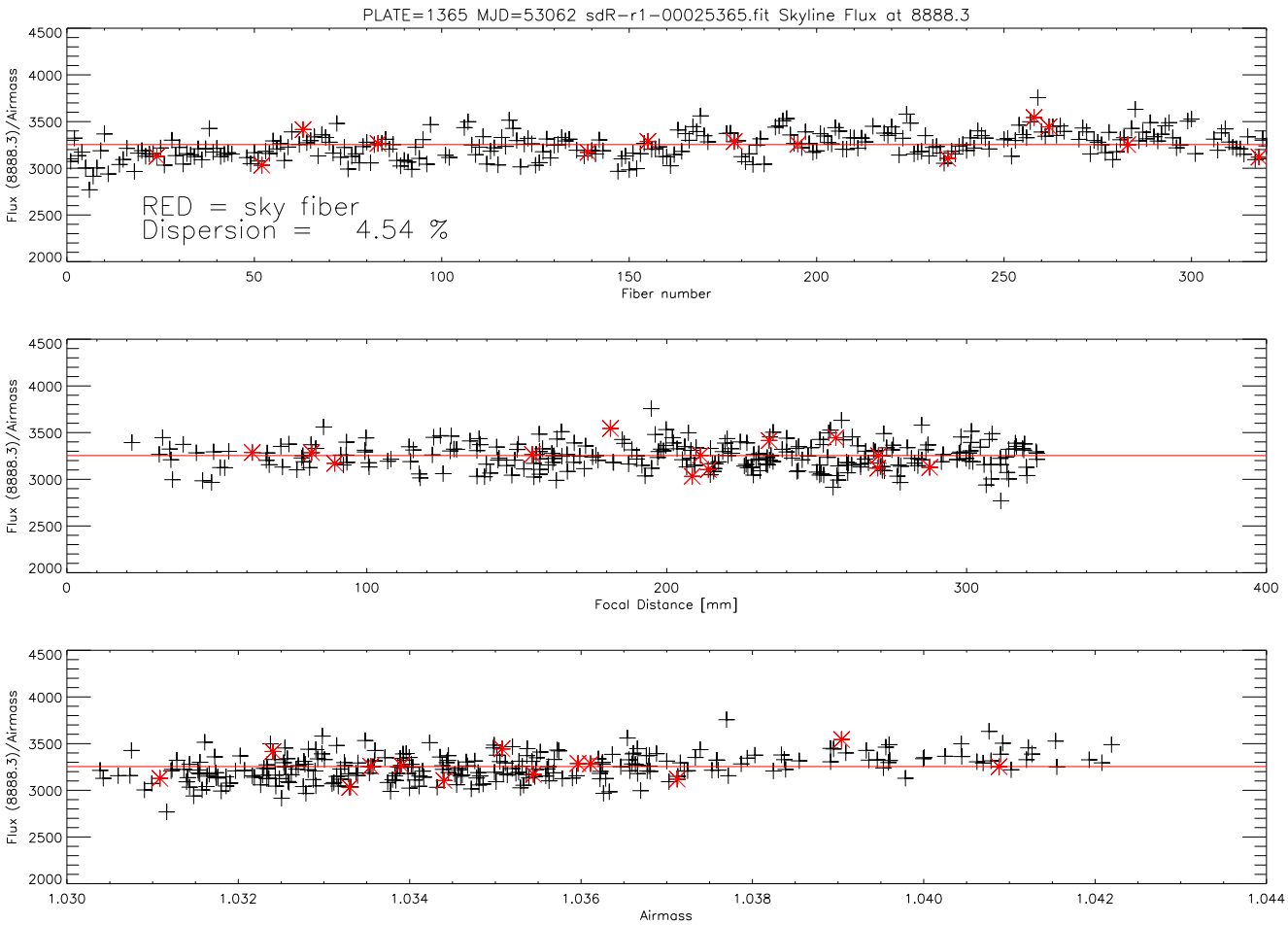

PLATE=1365 MJD=53062 sdR-r1-00025365.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

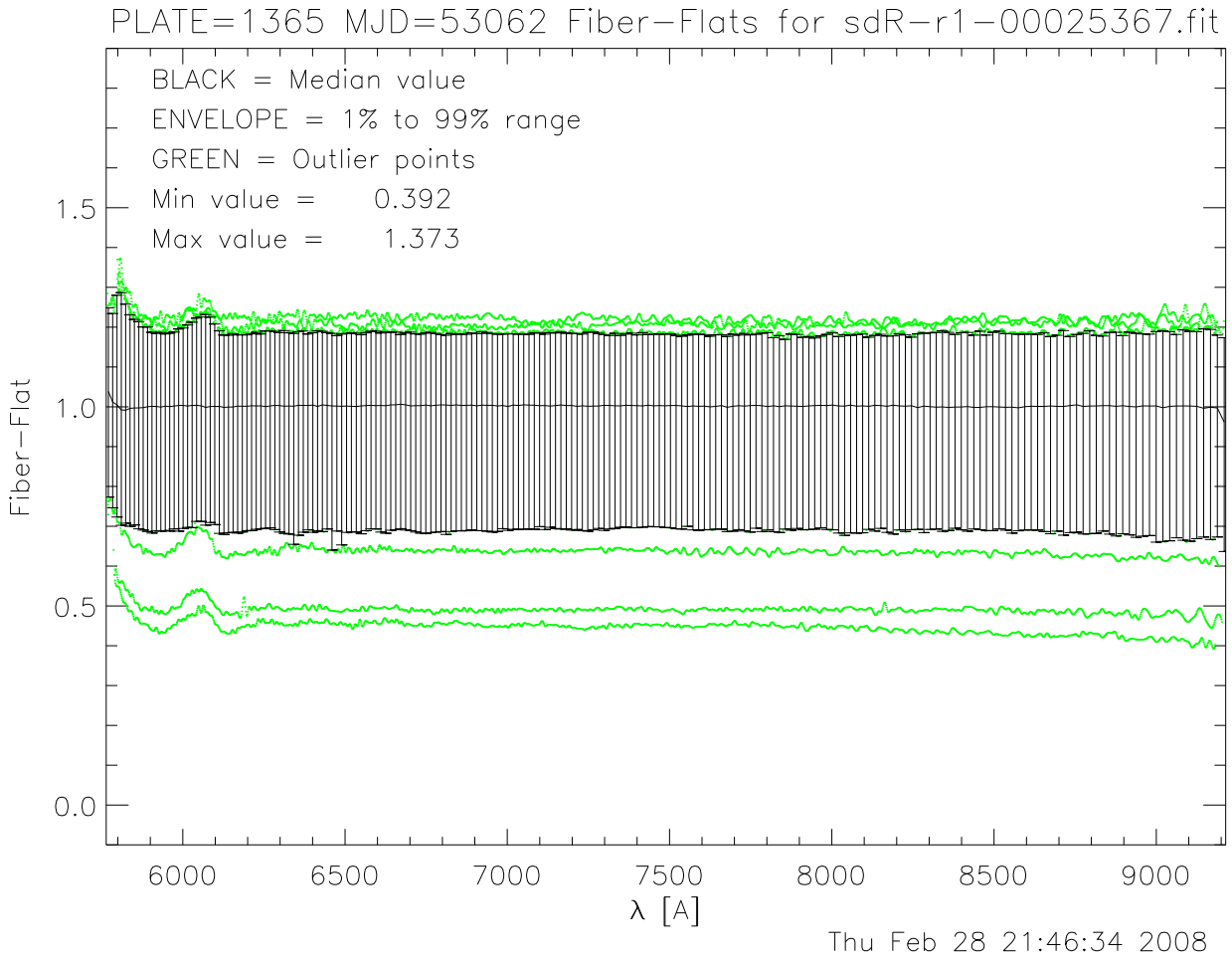

PLATE=1365 MJD=53062 sdR-r1-00025365.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

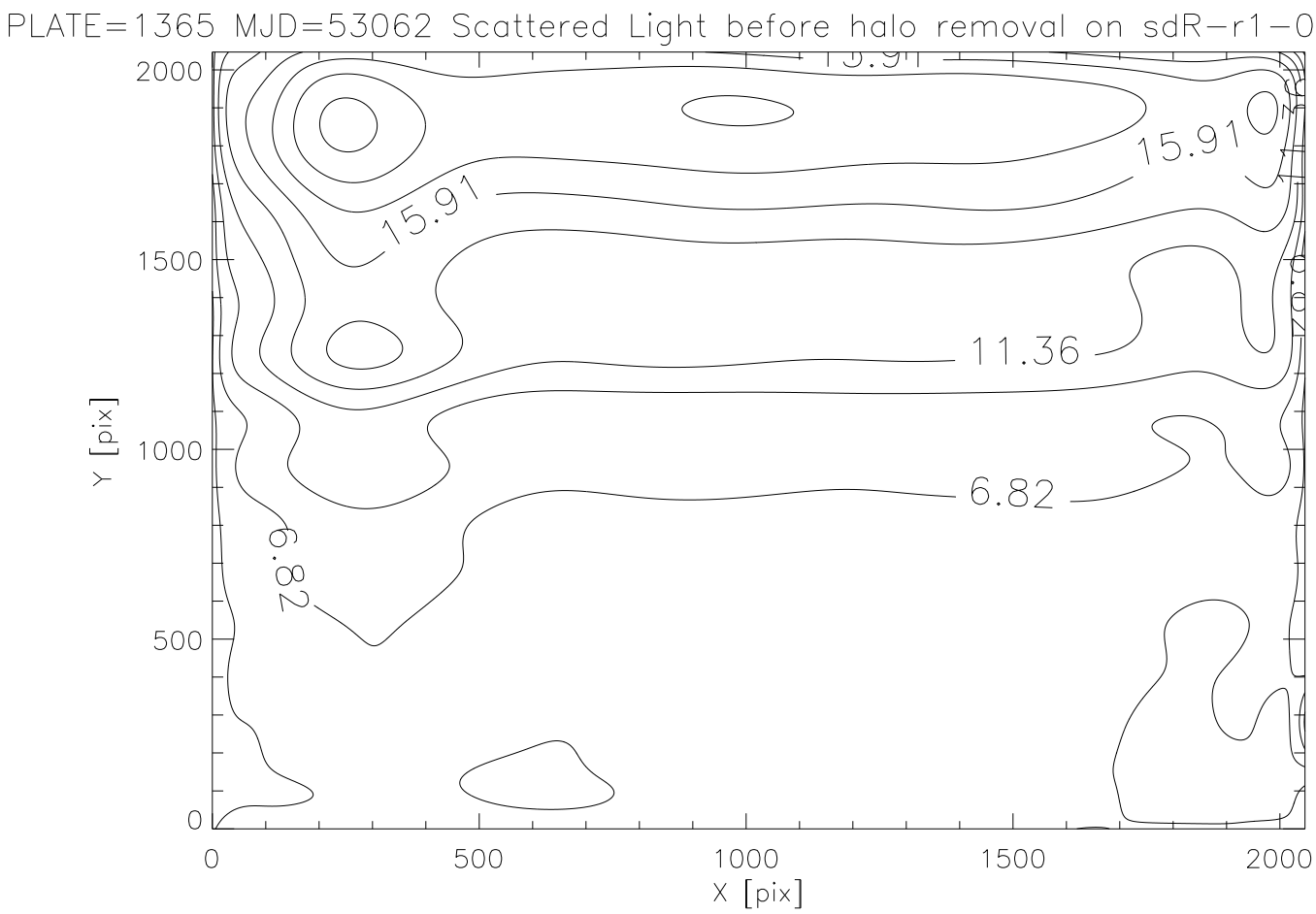

PLATE=1365 MJD=53062 sdR-r1-00025365.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

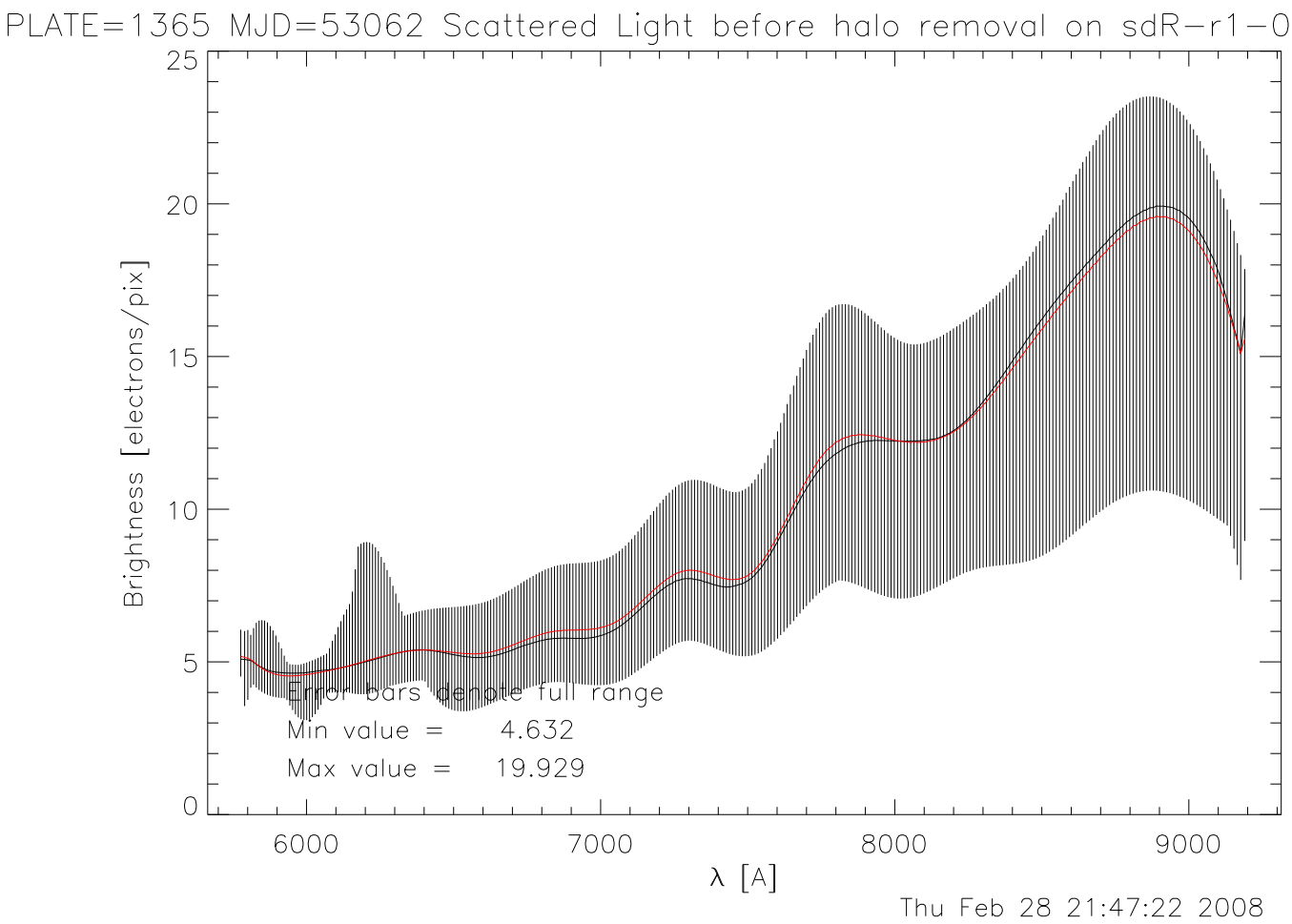

Number of sky fibers = 13
PLATE=1365 MJD=53062 sdR-r1-00025365.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

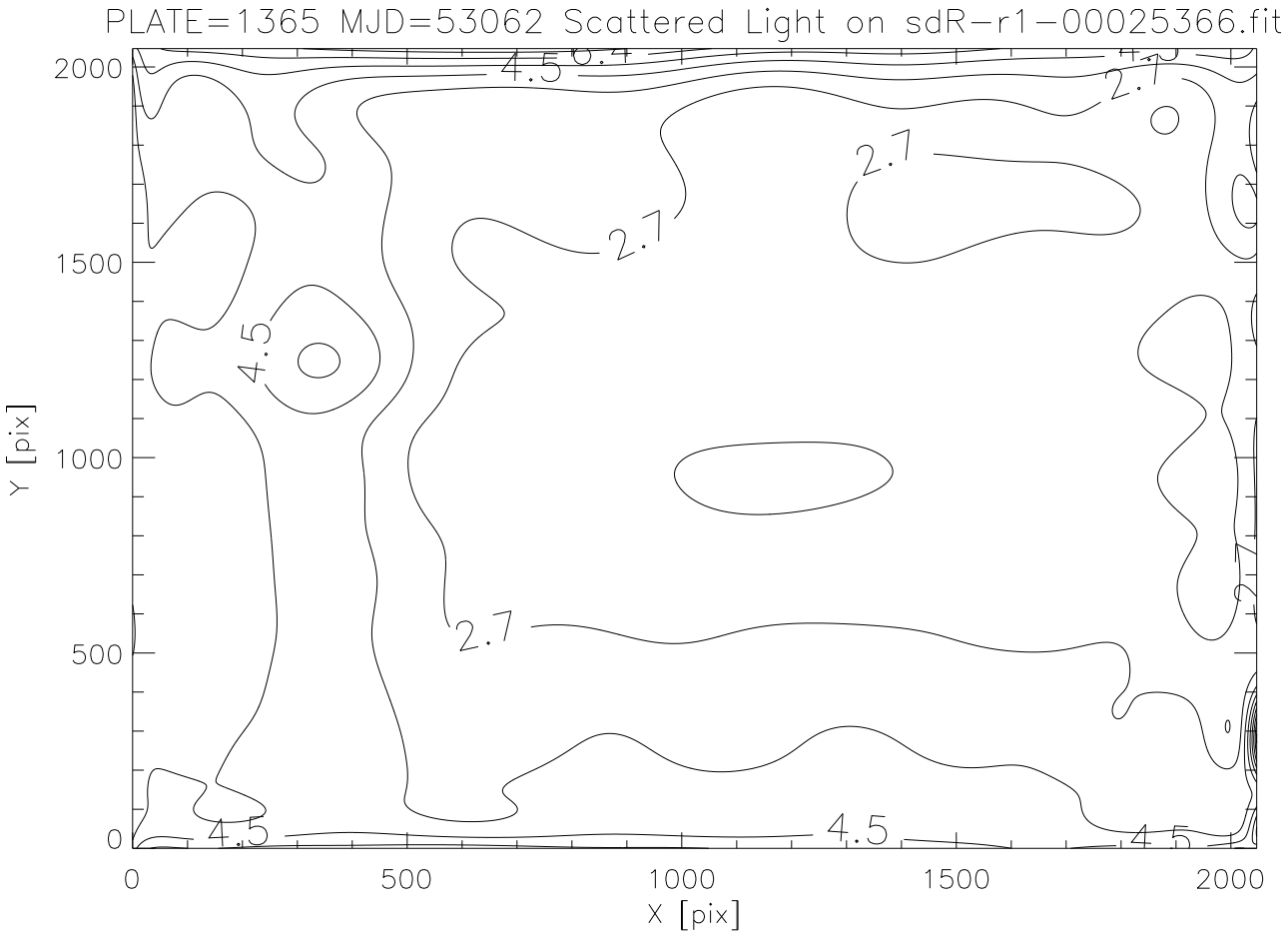

PLATE=1365 MJD=53062 sdR-r1-00025365.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.55 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

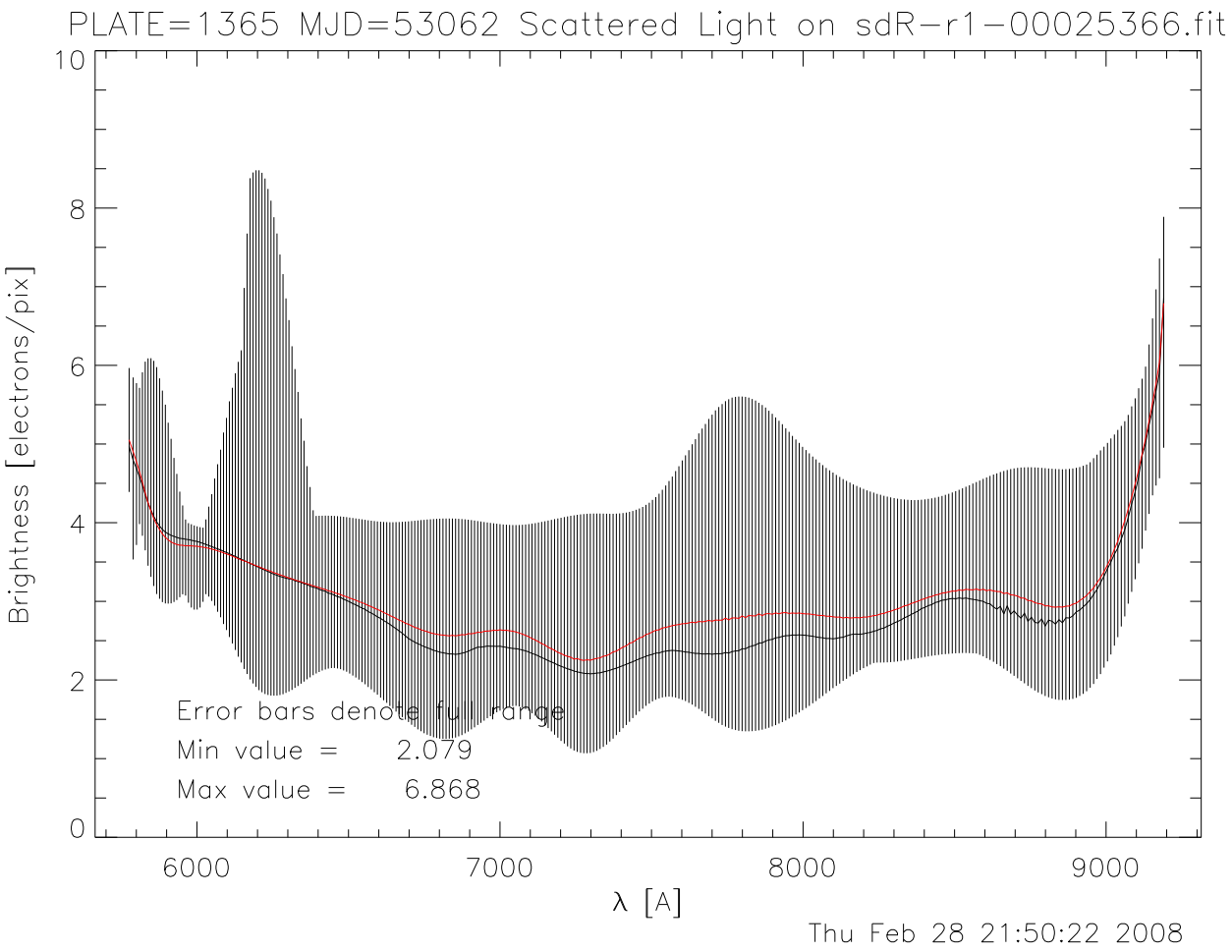

PLATE=1365 MJD=53062 sdR-r1-00025365.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.54 %
Fiber number
Focal Distance [mm]
Airmass

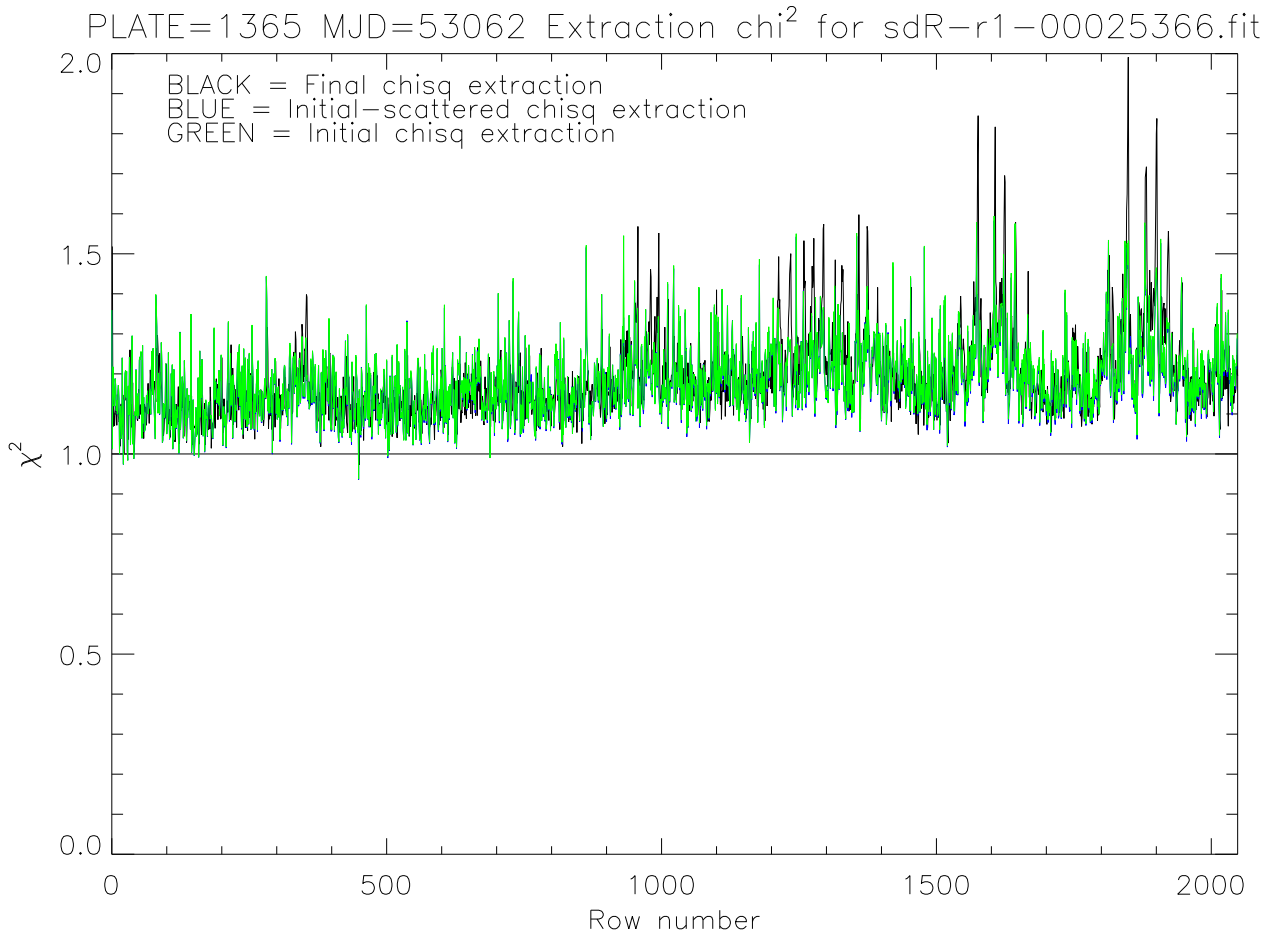

PLATE=1365 MJD=53062 Fiber−Flats for sdR−r1−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.392
Max value = 1.373
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 21:46:34 2008

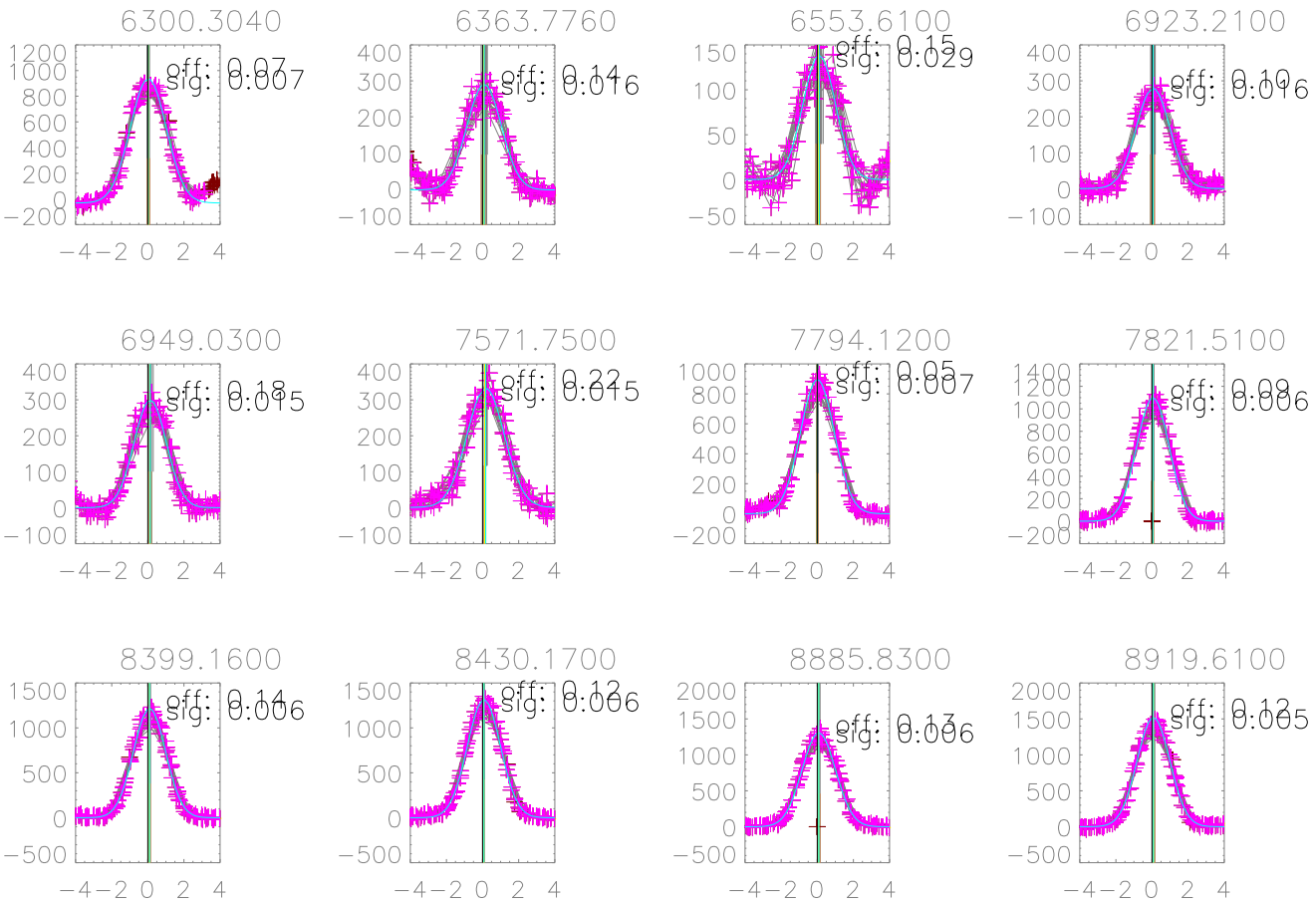

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r1-00025366.fi
15.91
15.91
11.36
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

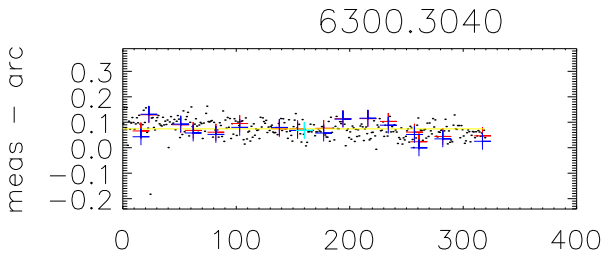

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r1-00025366.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.632
Max value = 19.929
Thu Feb 28 21:47:22 2008

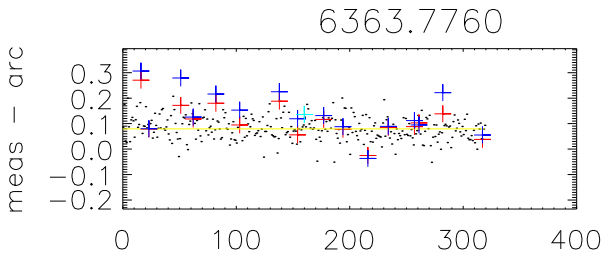

PLATE=1365 MJD=53062 Scattered Light on sdR-r1-00025366.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
4.5
2.7
4.5
2.7
2.7
4.5
2.7
4.5
4.5
4.5

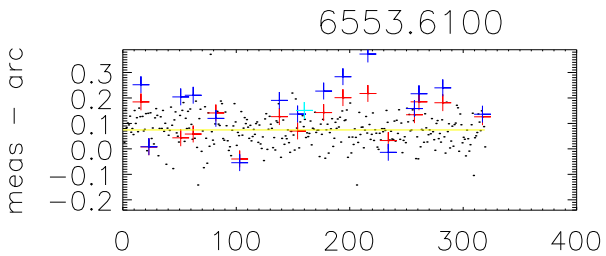

PLATE=1365 MJD=53062 Scattered Light on sdR-r1-00025366.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.079
Max value = 6.868
Thu Feb 28 21:50:22 2008

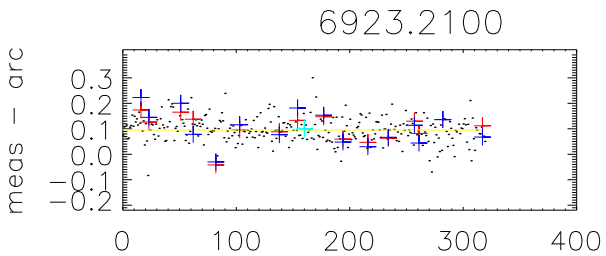

PLATE=1365 MJD=53062 Extraction chi^2 for sdR−r1−00025366.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

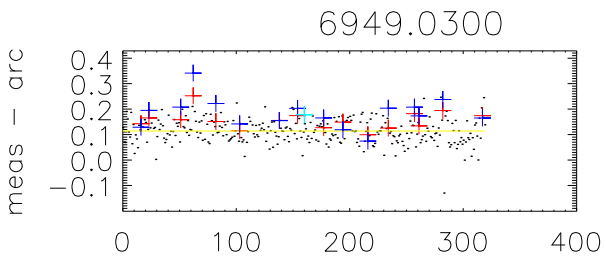

6300.3040
off: 0.07
sig: 0.007
6363.7760
off: 0.14
sig: 0.016
6553.6100
off: 0.15
sig: 0.029
6923.2100
off: 0.10
sig: 0.016
6949.0300
off: 0.18
sig: 0.015
7571.7500
off: 0.22
sig: 0.015
7794.1200
off: 0.05
sig: 0.007
7821.5100
off: 0.09
sig: 0.006
8399.1600
off: 0.14
sig: 0.006
8430.1700
off: 0.12
sig: 0.006
8885.8300
off: 0.13
sig: 0.006
8919.6100
off: 0.12
sig: 0.005

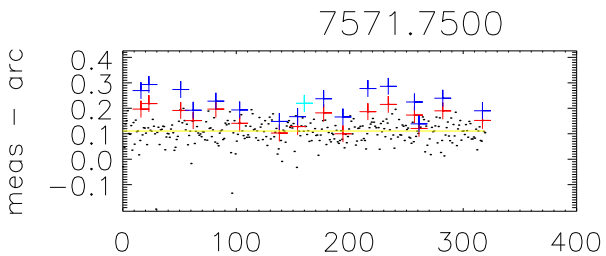

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

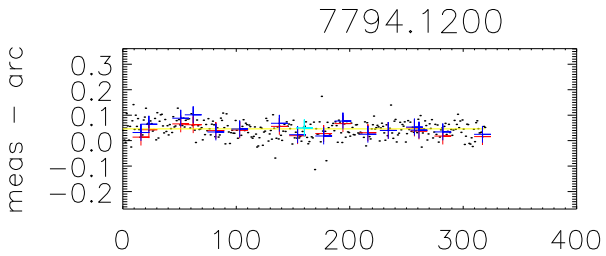

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

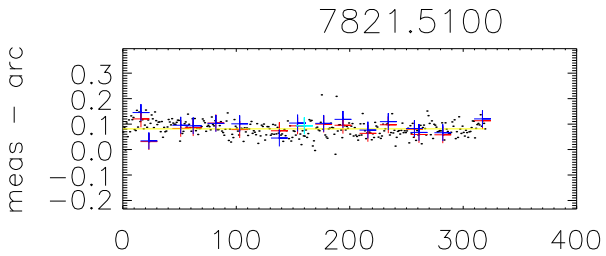

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

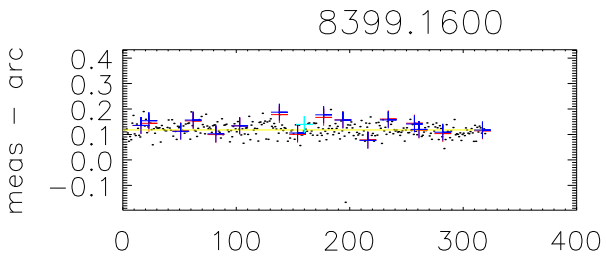

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

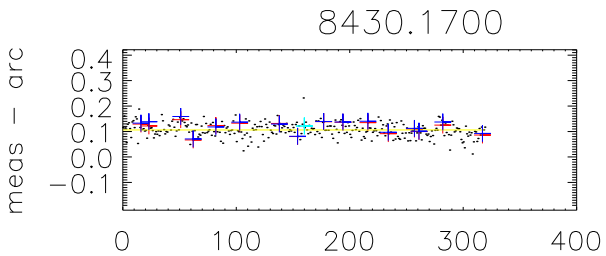

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

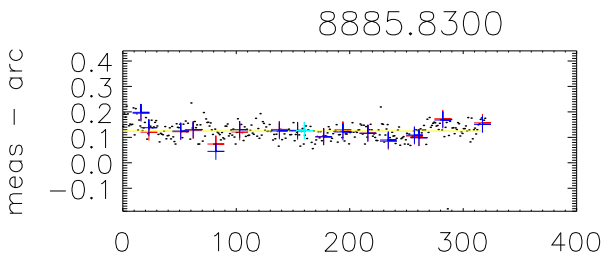

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

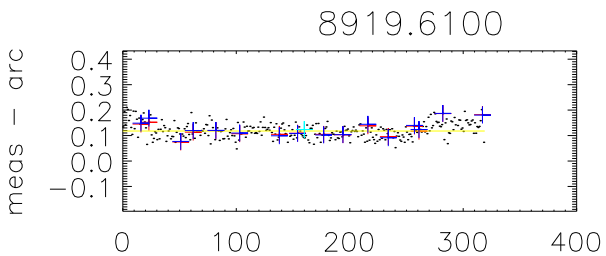

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

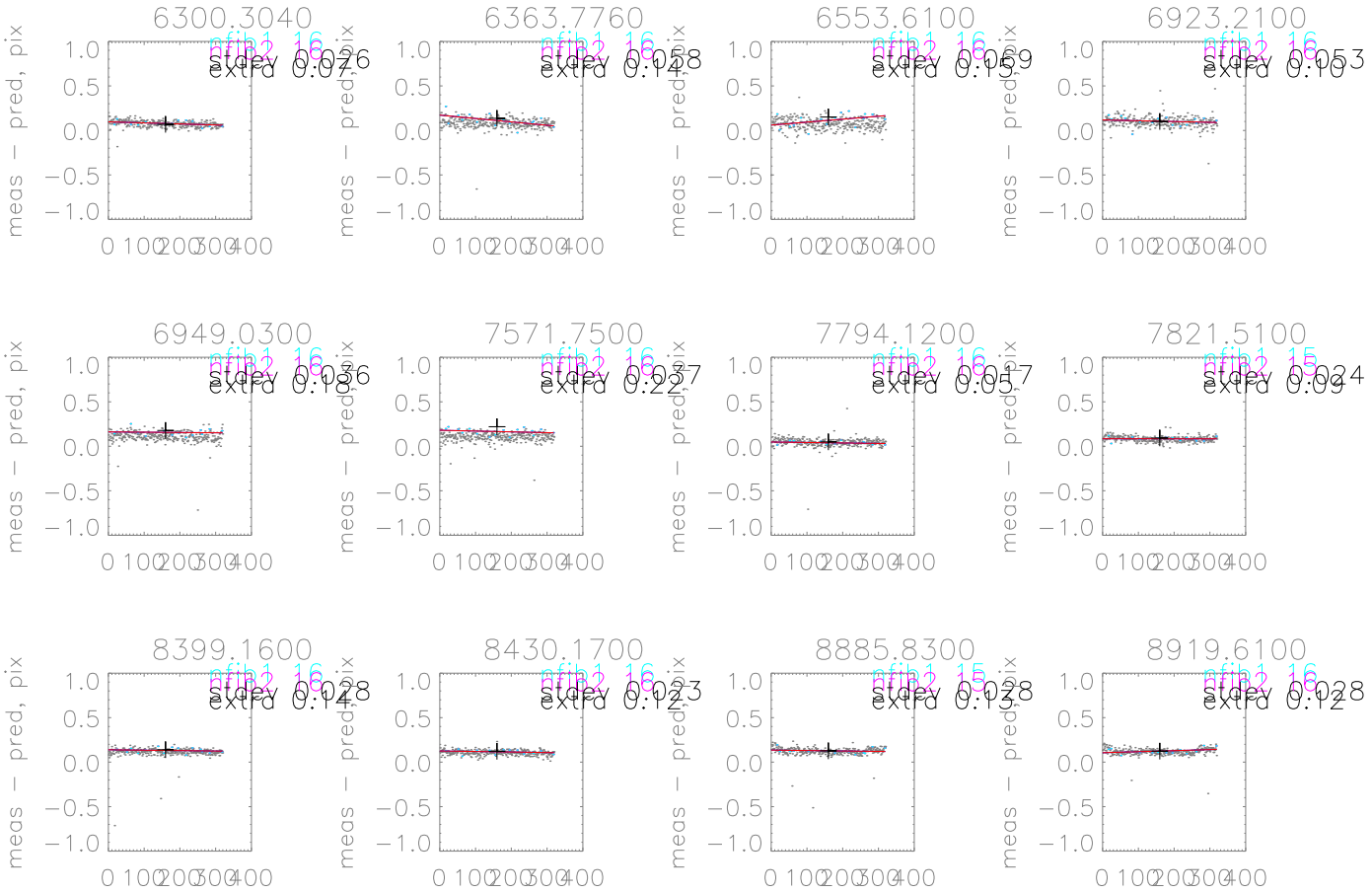

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

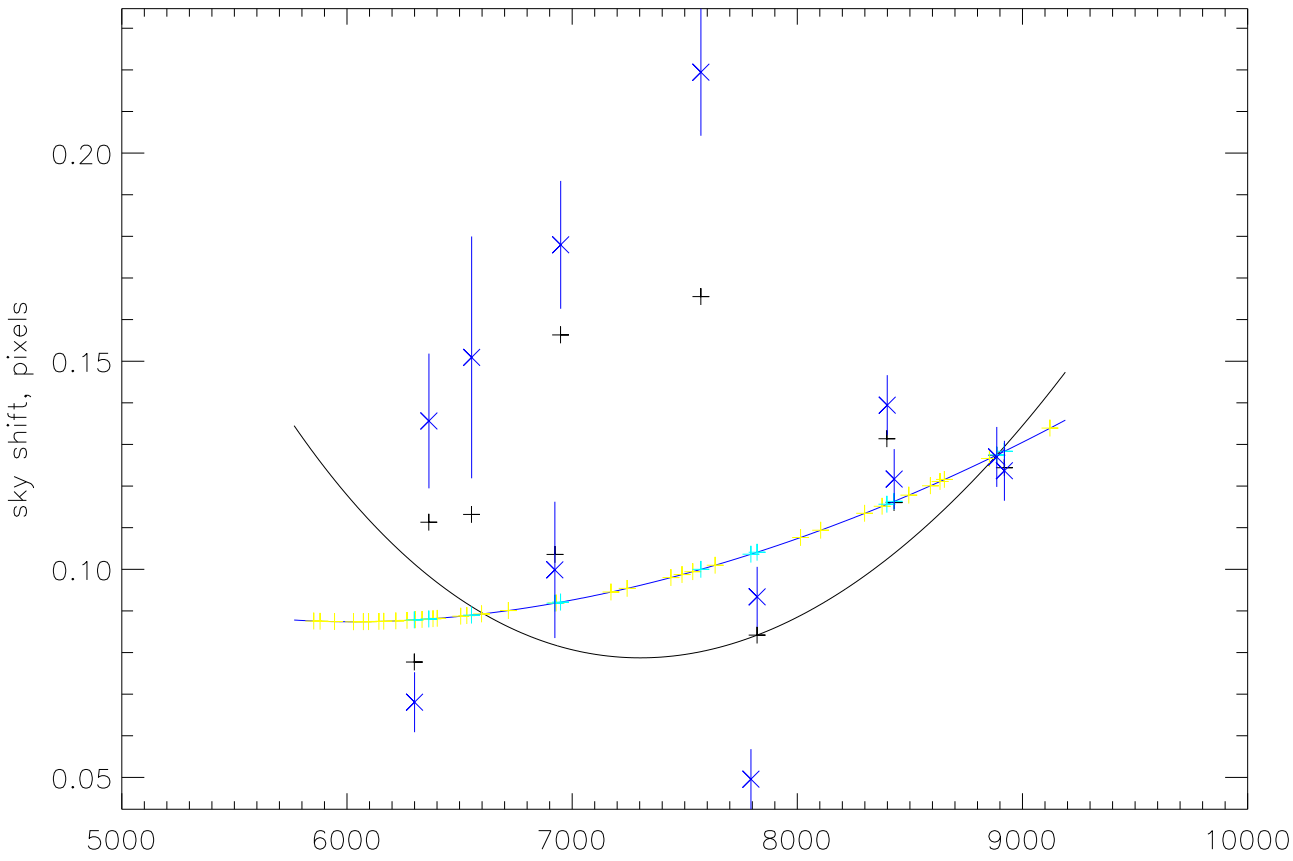

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

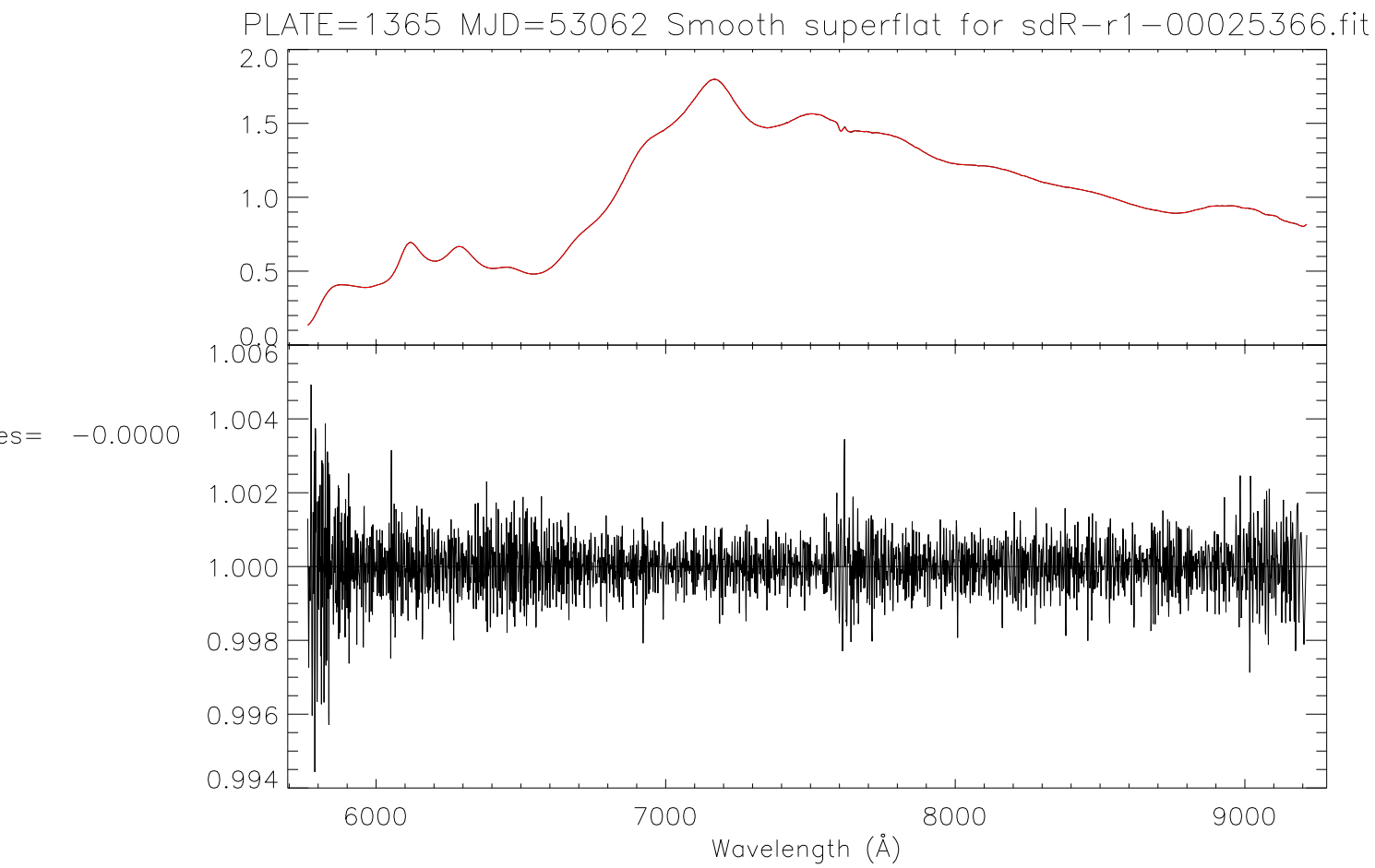

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

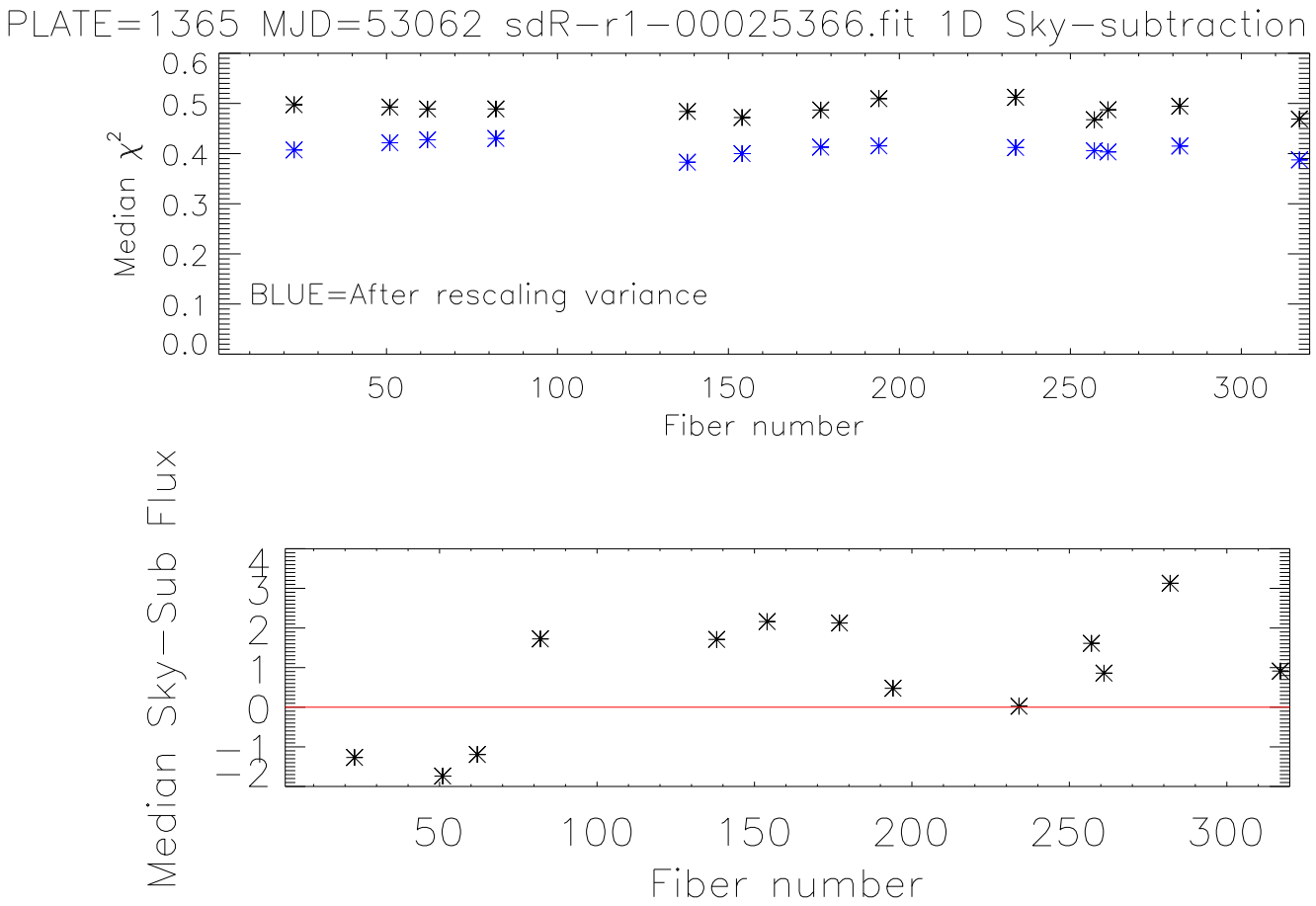

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

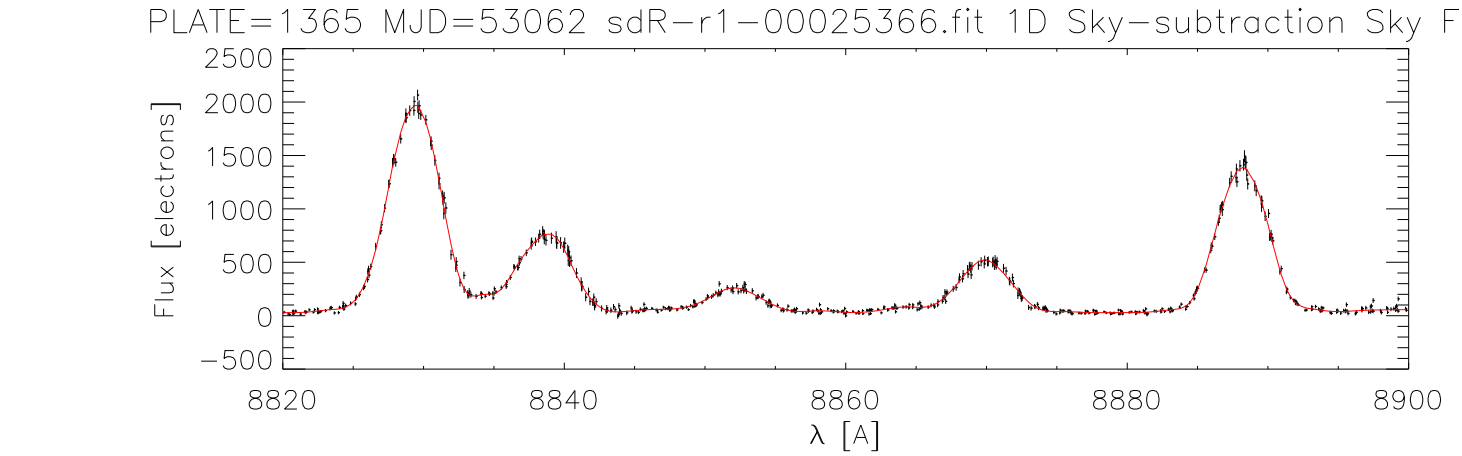

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

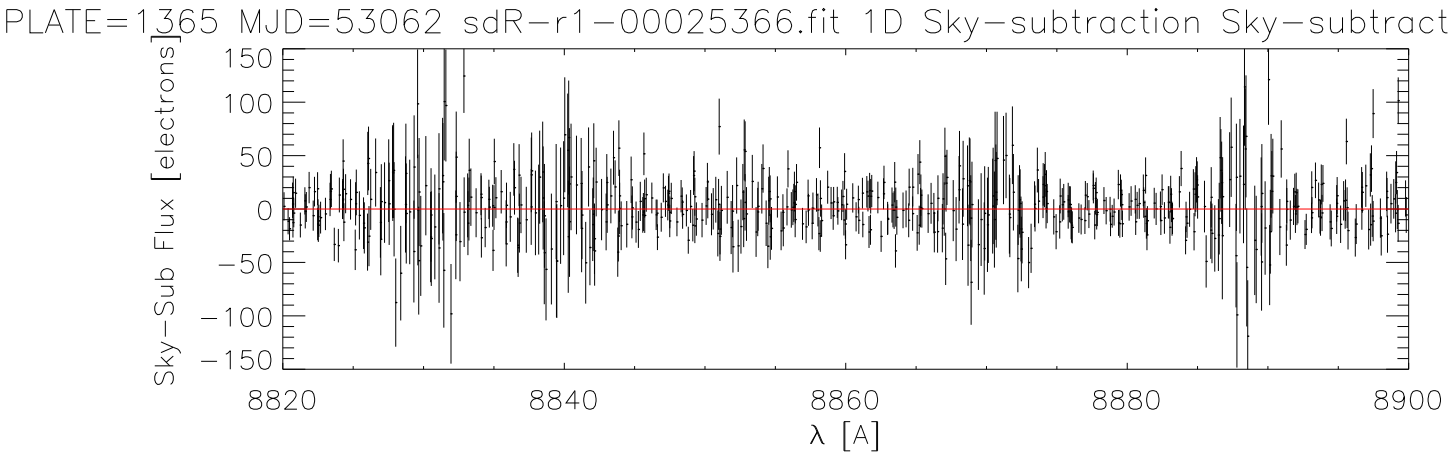

6300.3040
stdev 0.026
extra 0.07
6363.7760
stdev 0.028
extra 0.14
6553.6100
stdev 0.029
extra 0.15
6923.2100
stdev 0.023
extra 0.10
6949.0300
stdev 0.036
extra 0.18
7571.7500
stdev 0.037
extra 0.22
7794.1200
stdev 0.017
extra 0.05
7821.5100
stdev 0.024
extra 0.09
8399.1600
stdev 0.028
extra 0.14
8430.1700
stdev 0.023
extra 0.12
8885.8300
stdev 0.028
extra 0.13
8919.6100
stdev 0.028
extra 0.12
meas − pred, pix

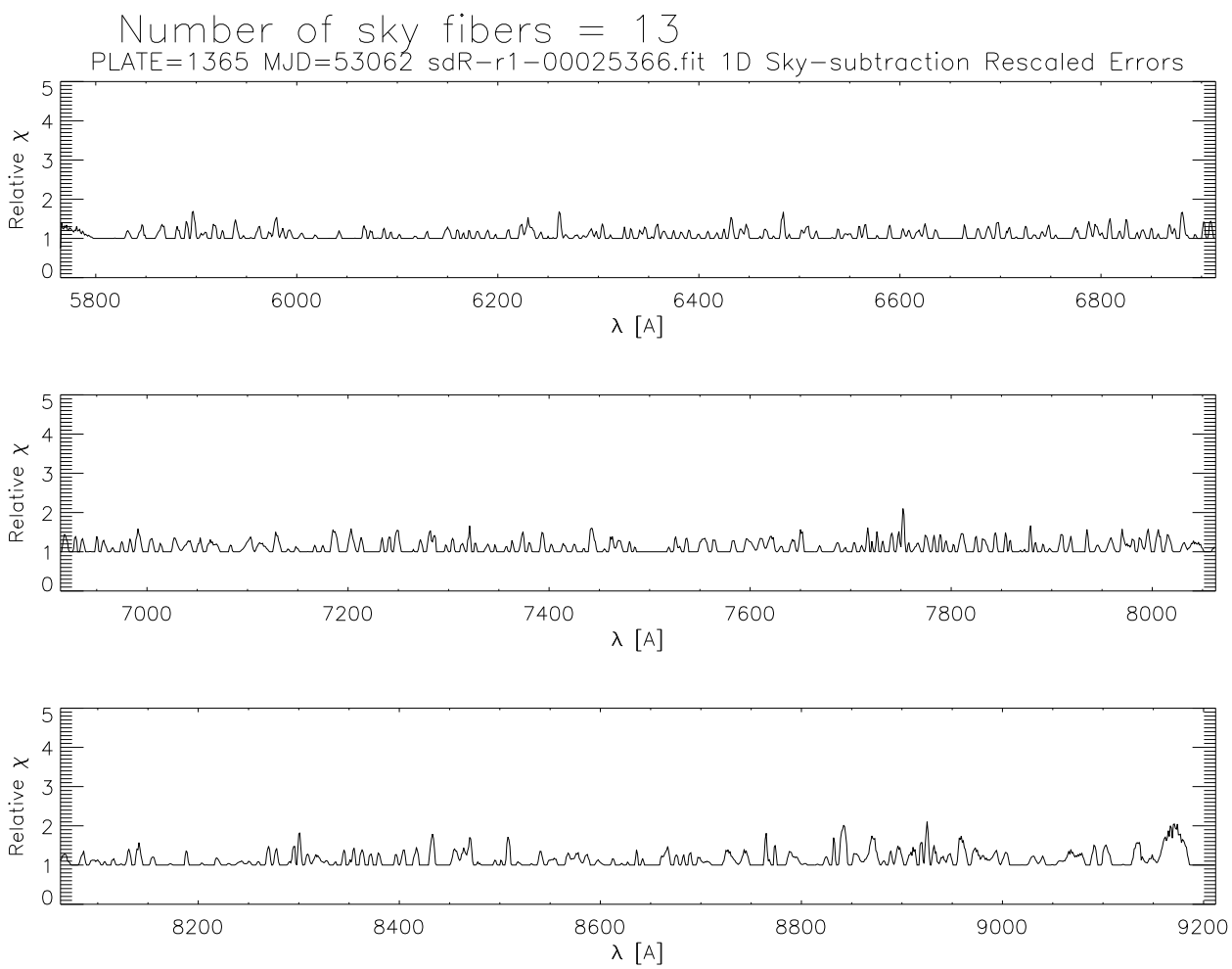

sky shift, pixels
0.20
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

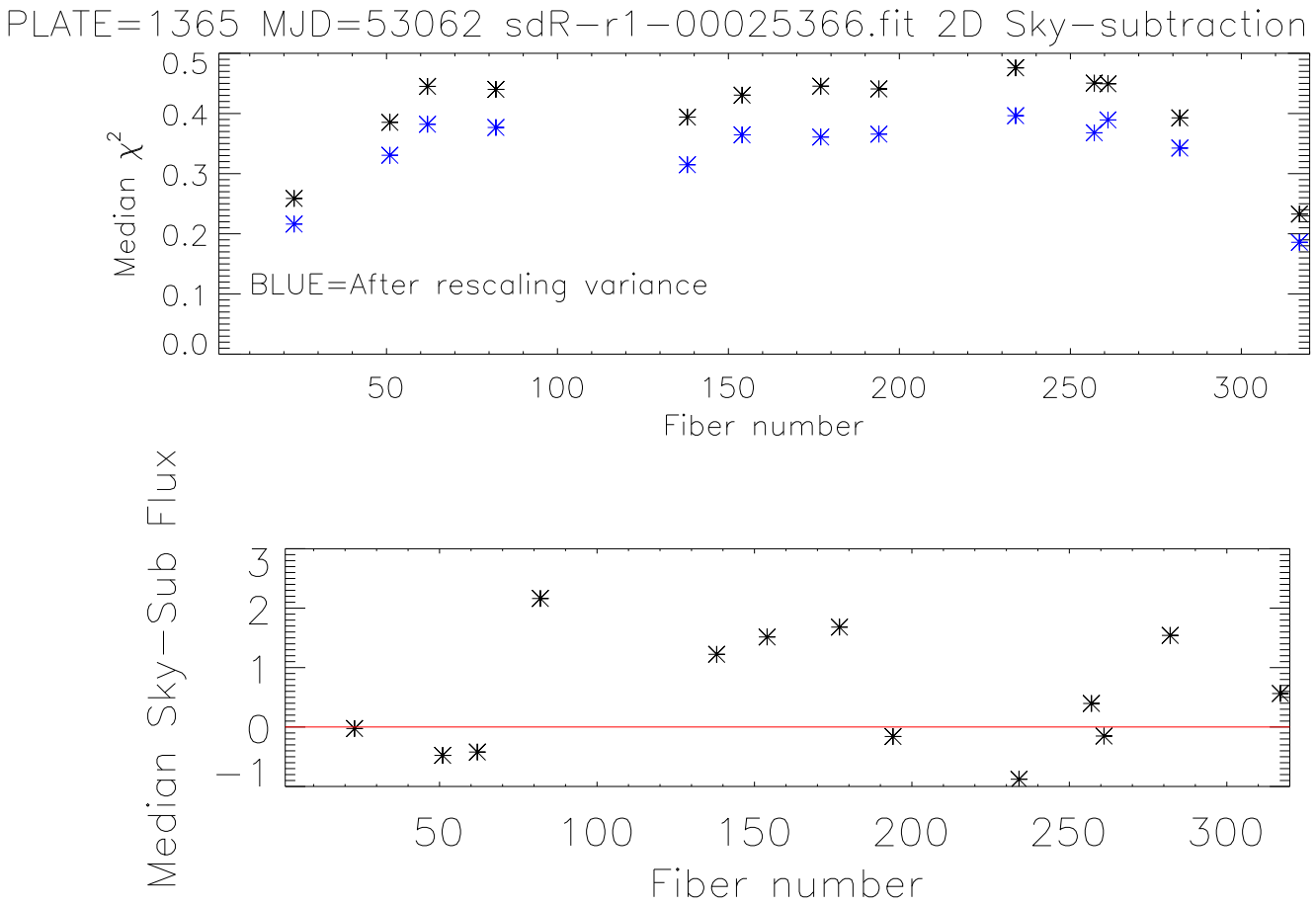

PLATE=1365 MJD=53062 Smooth superflat for sdR-r1-00025366.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

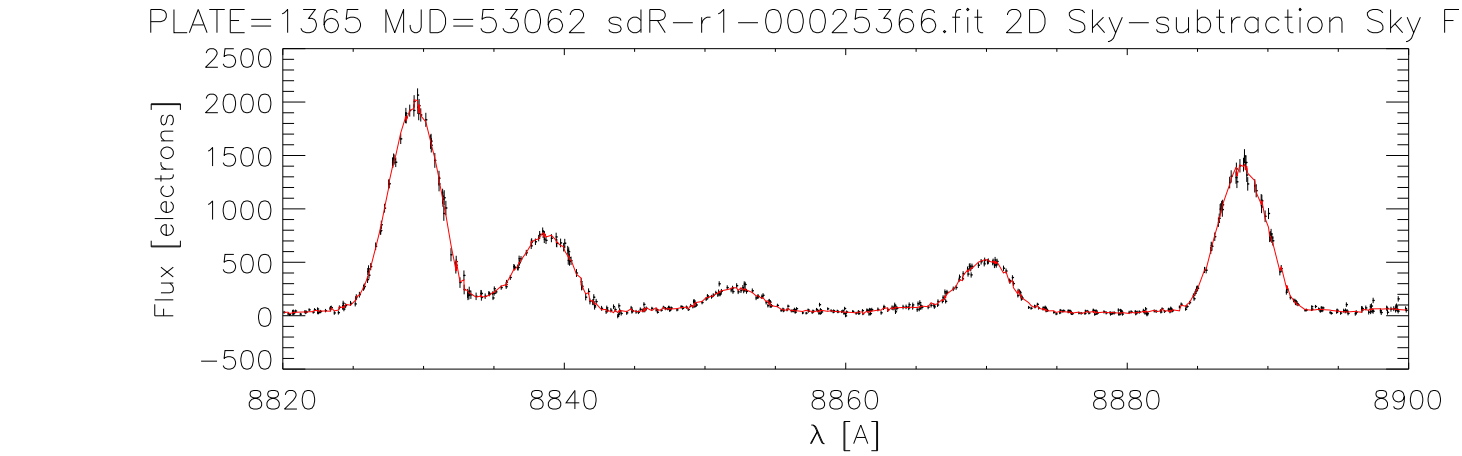

PLATE=1365 MJD=53062 sdR-r1-00025366.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

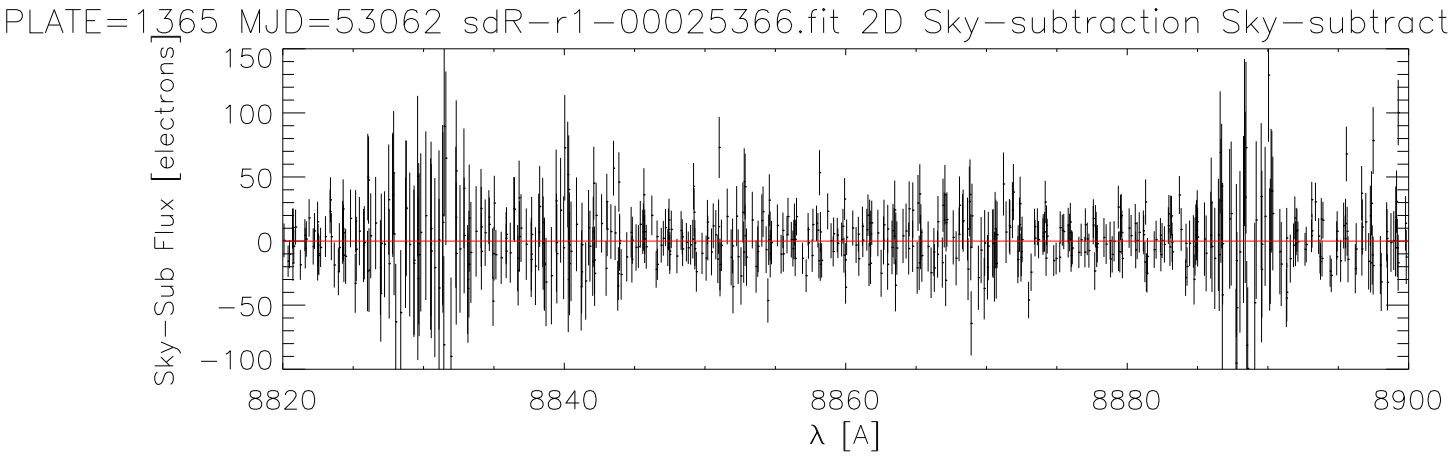

PLATE=1365 MJD=53062 sdR-r1-00025366.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

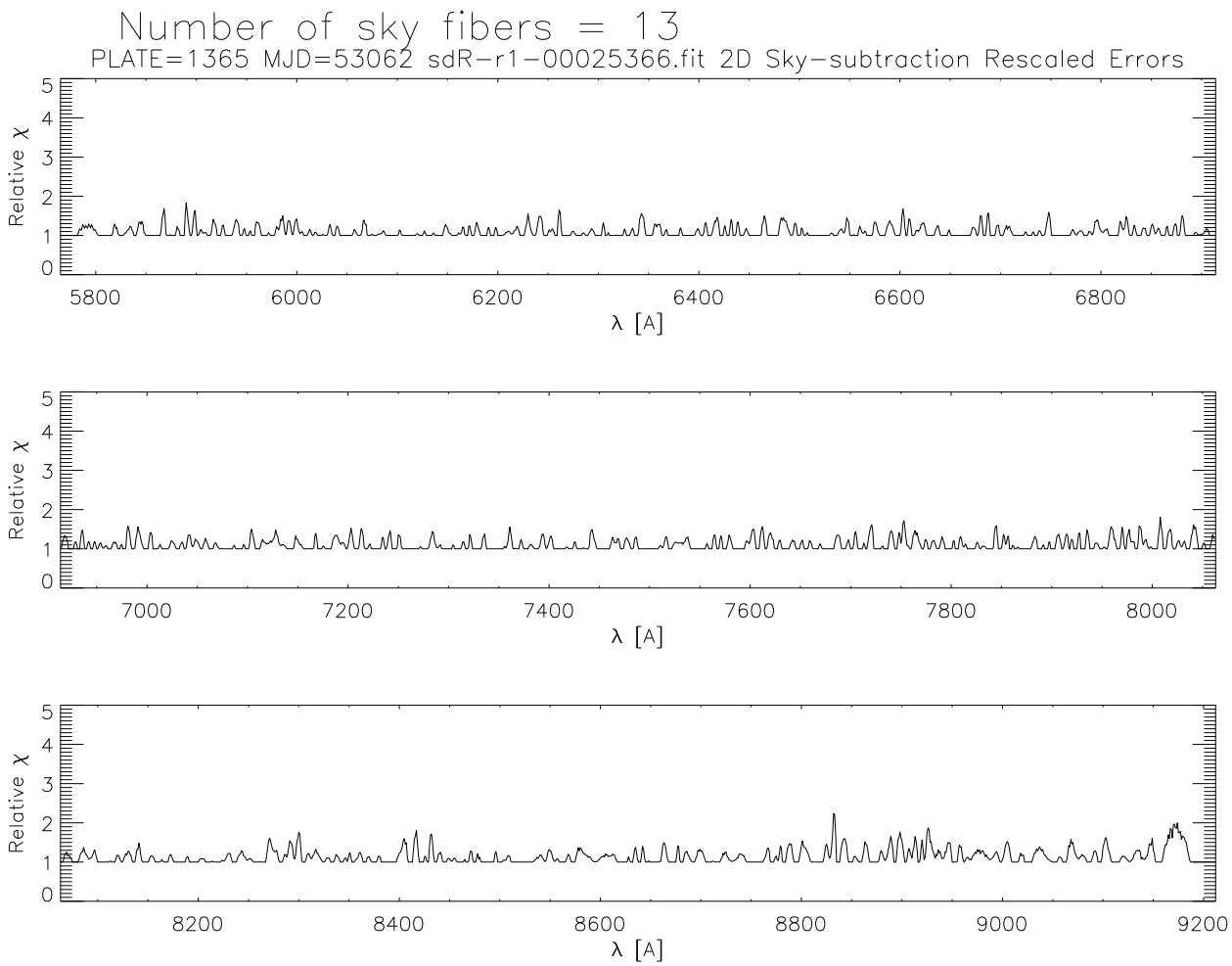

PLATE=1365 MJD=53062 sdR-r1-00025366.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
8820
8840
8860
8880
8900
λ [A]

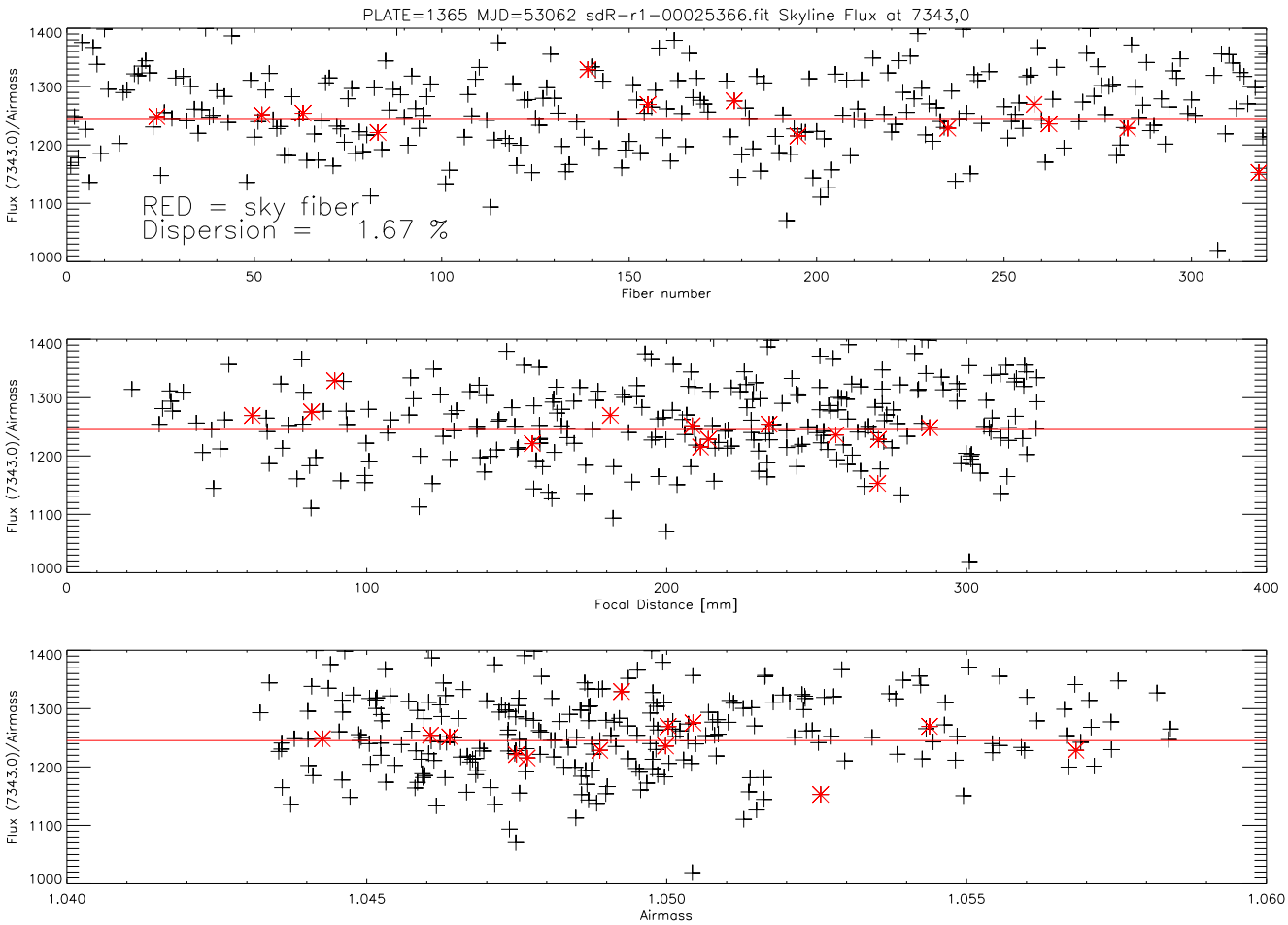

Number of sky fibers = 13
PLATE=1365 MJD=53062 sdR-r1-00025366.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

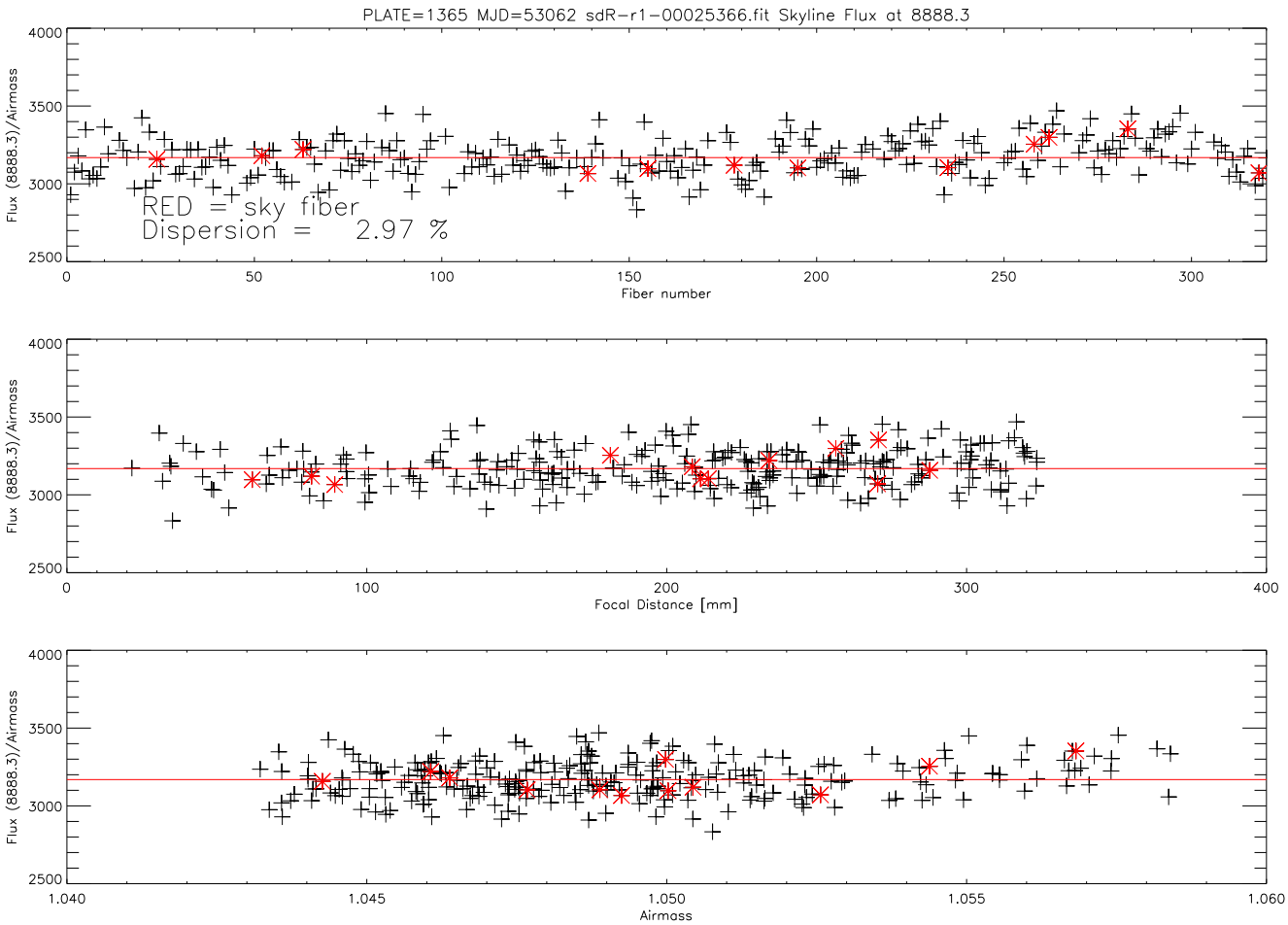

PLATE=1365 MJD=53062 sdR-r1-00025366.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

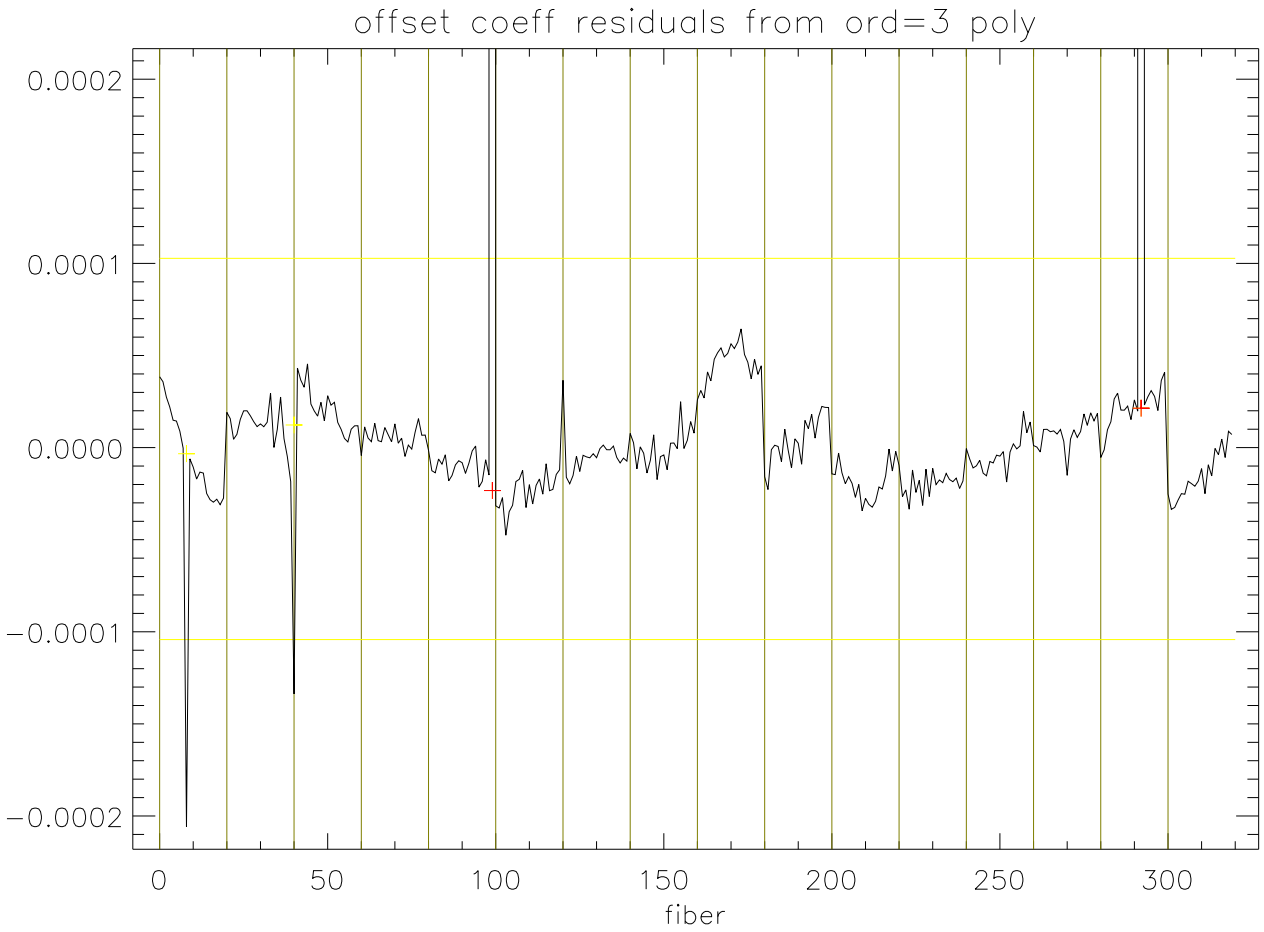

PLATE=1365 MJD=53062 sdR-r1-00025366.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

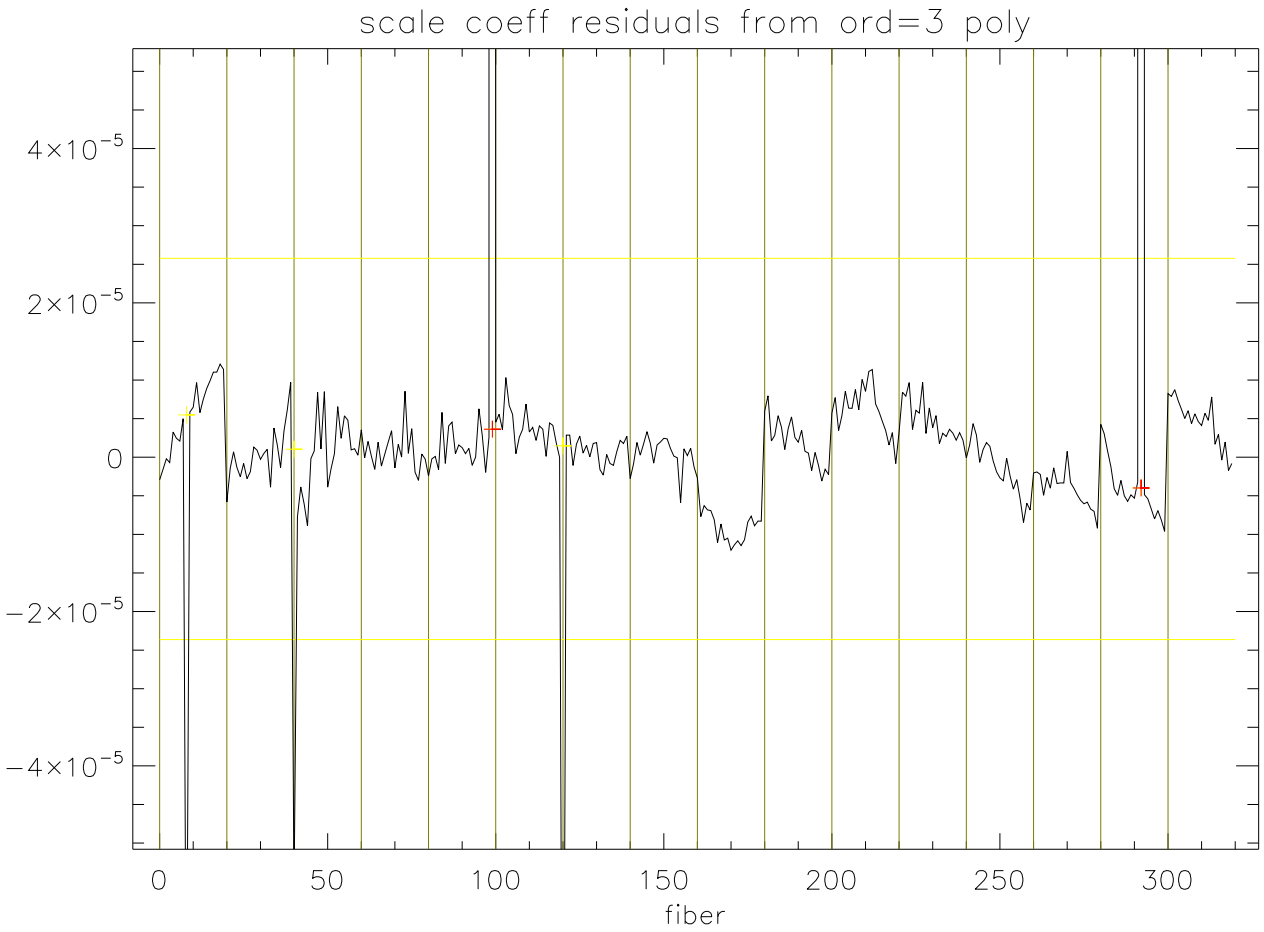

PLATE=1365 MJD=53062 sdR-r1-00025366.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

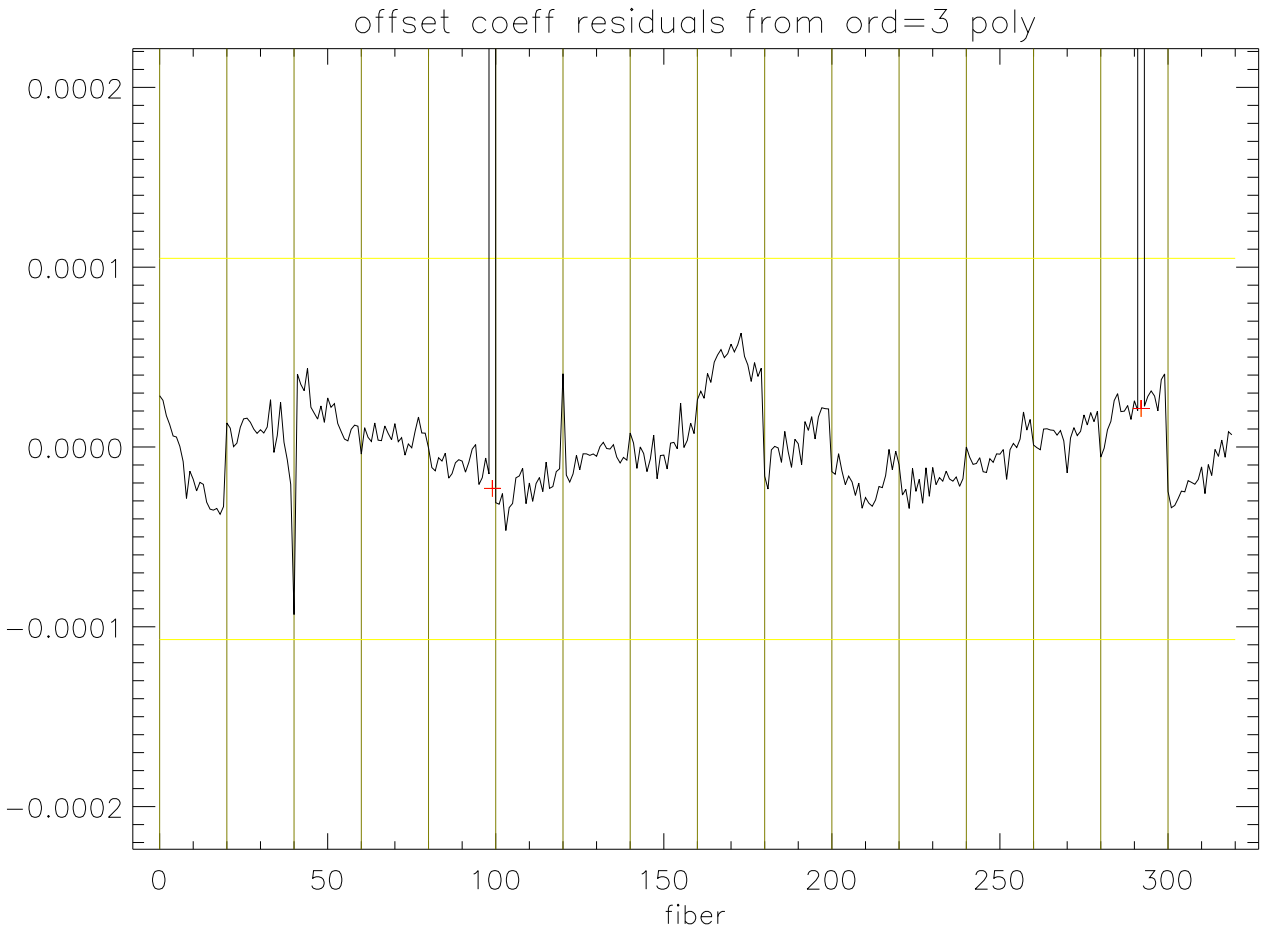

Number of sky fibers = 13
PLATE=1365 MJD=53062 sdR-r1-00025366.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

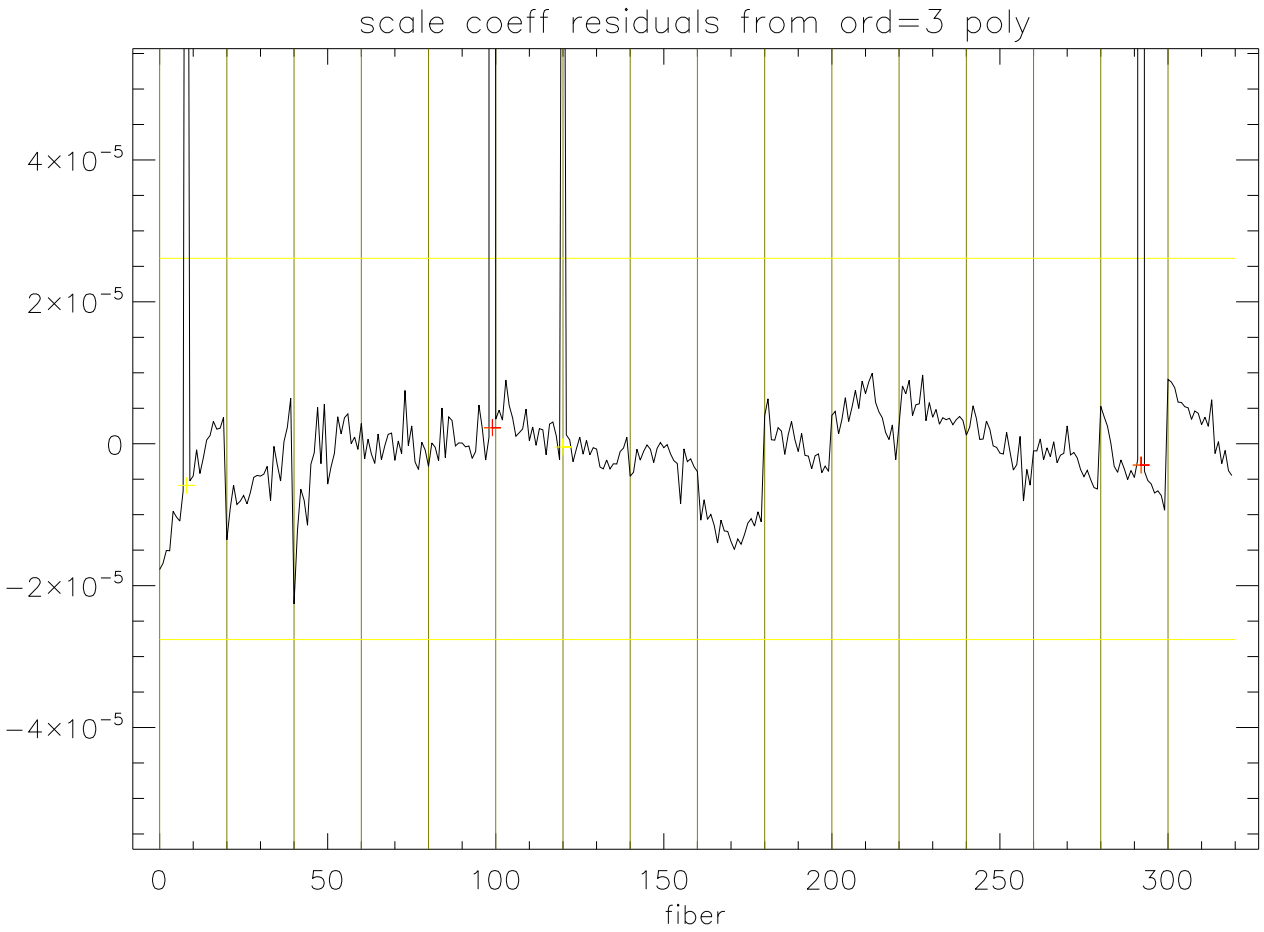

PLATE=1365 MJD=53062 sdR-r1-00025366.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.67 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

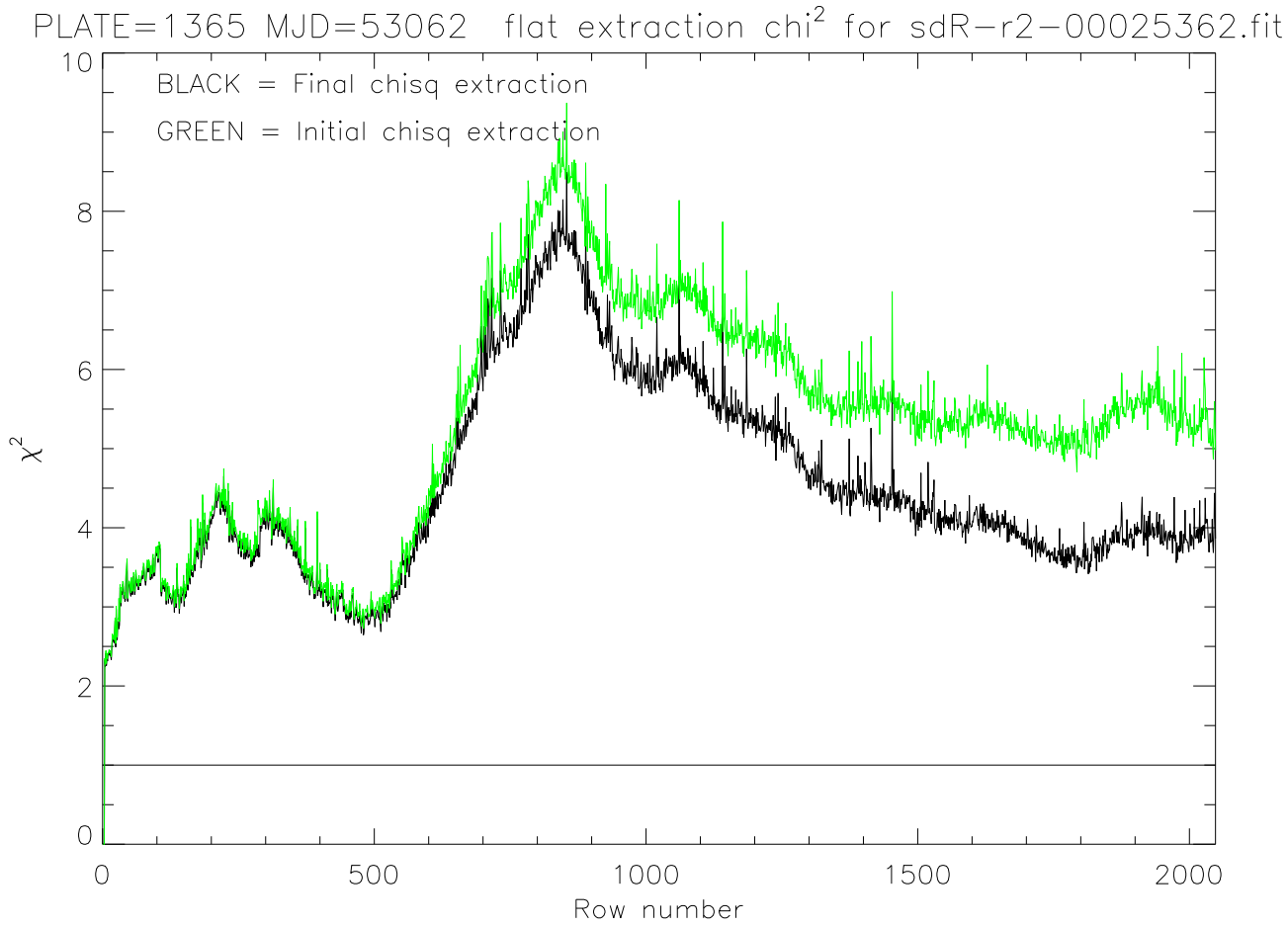

PLATE=1365 MJD=53062 sdR-r1-00025366.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.97 %
Fiber number
Focal Distance [mm]
Airmass

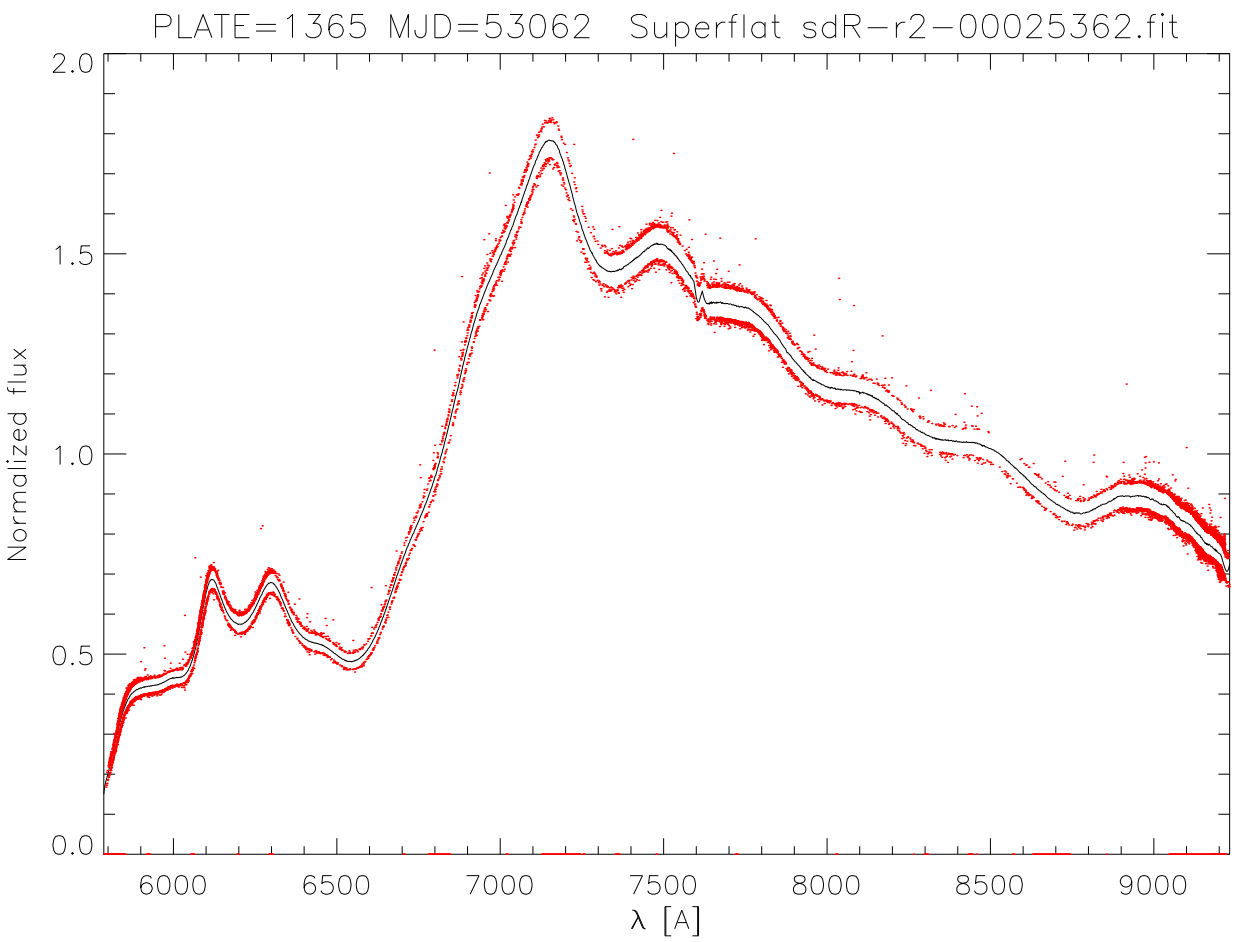

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

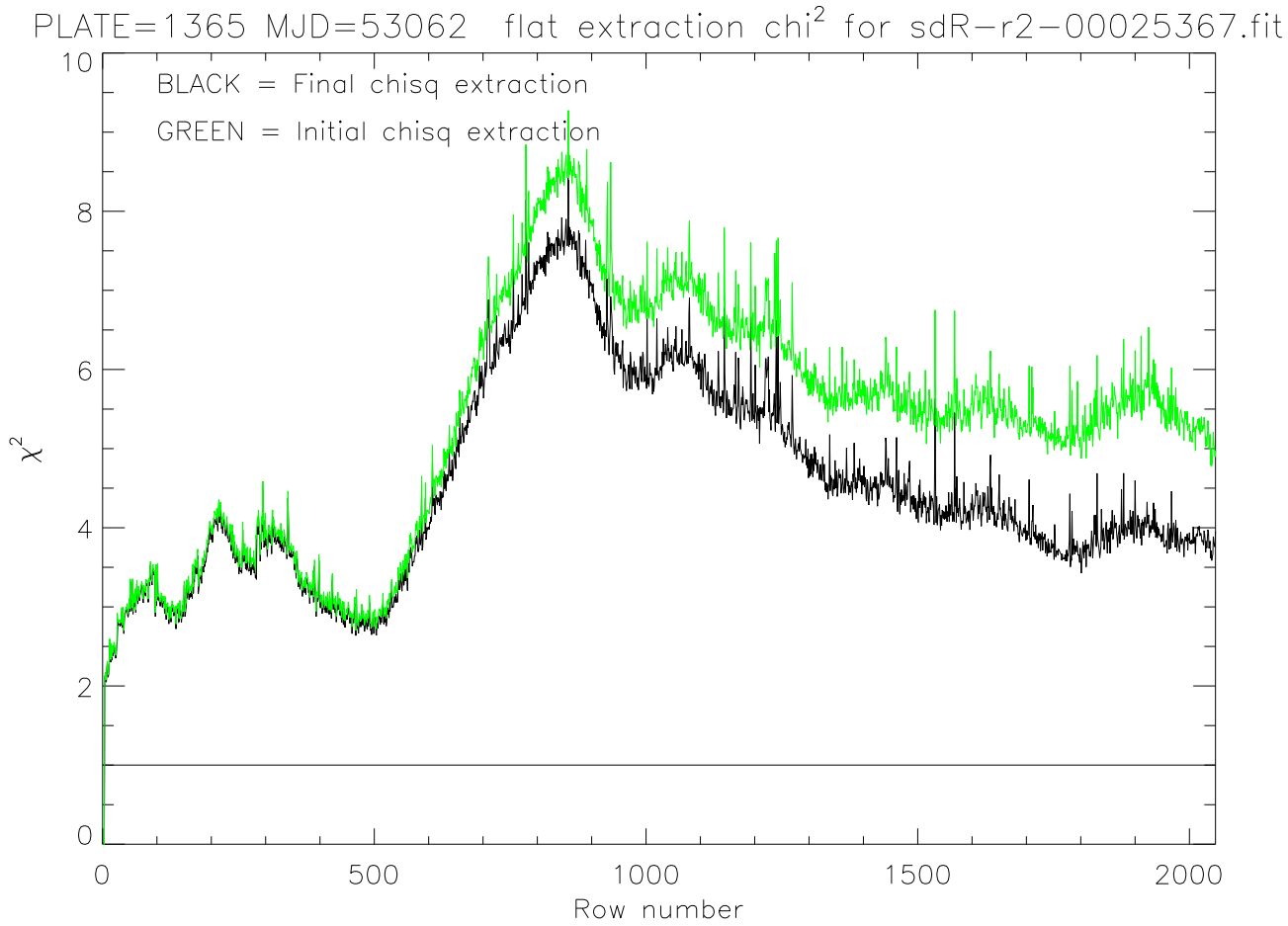

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

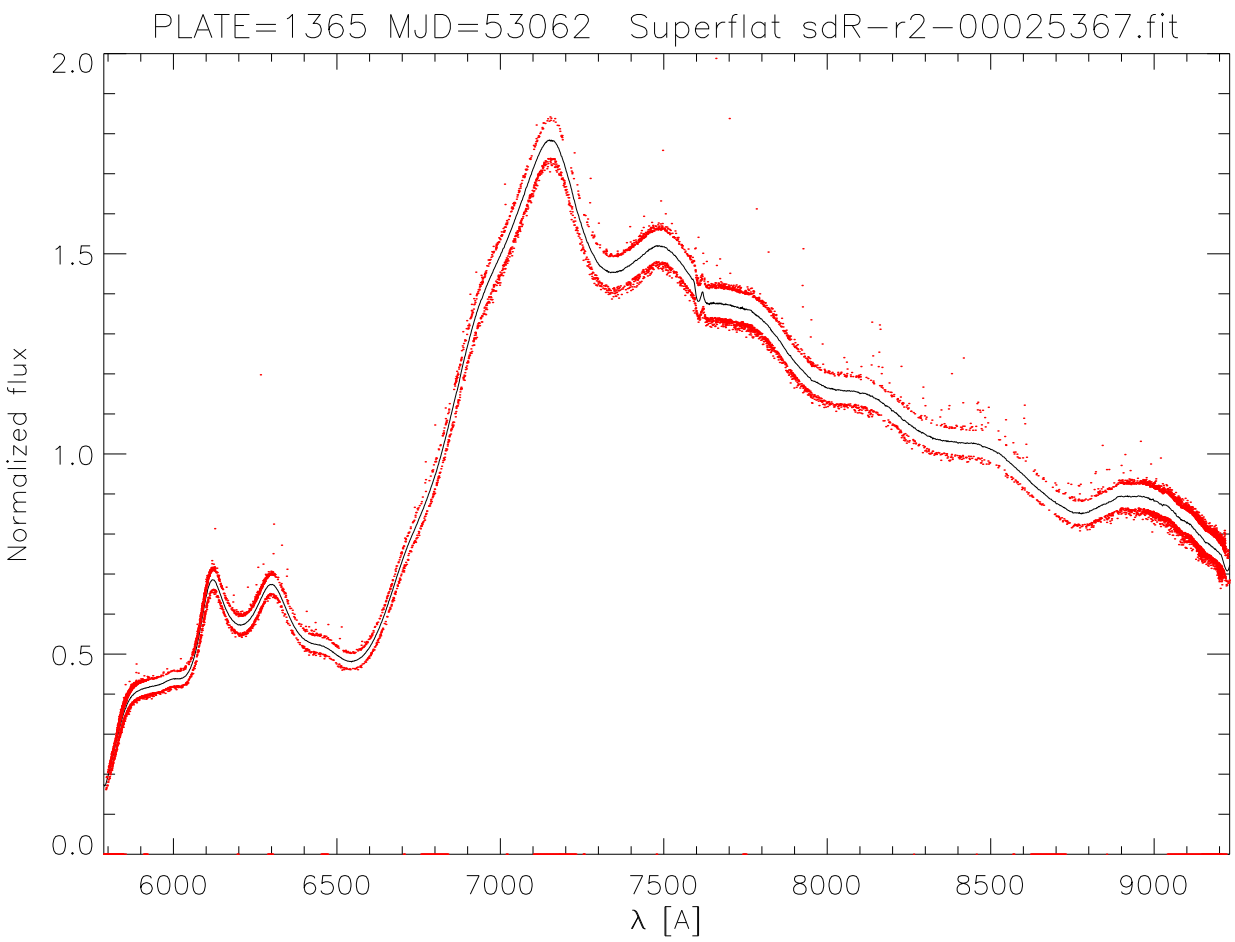

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

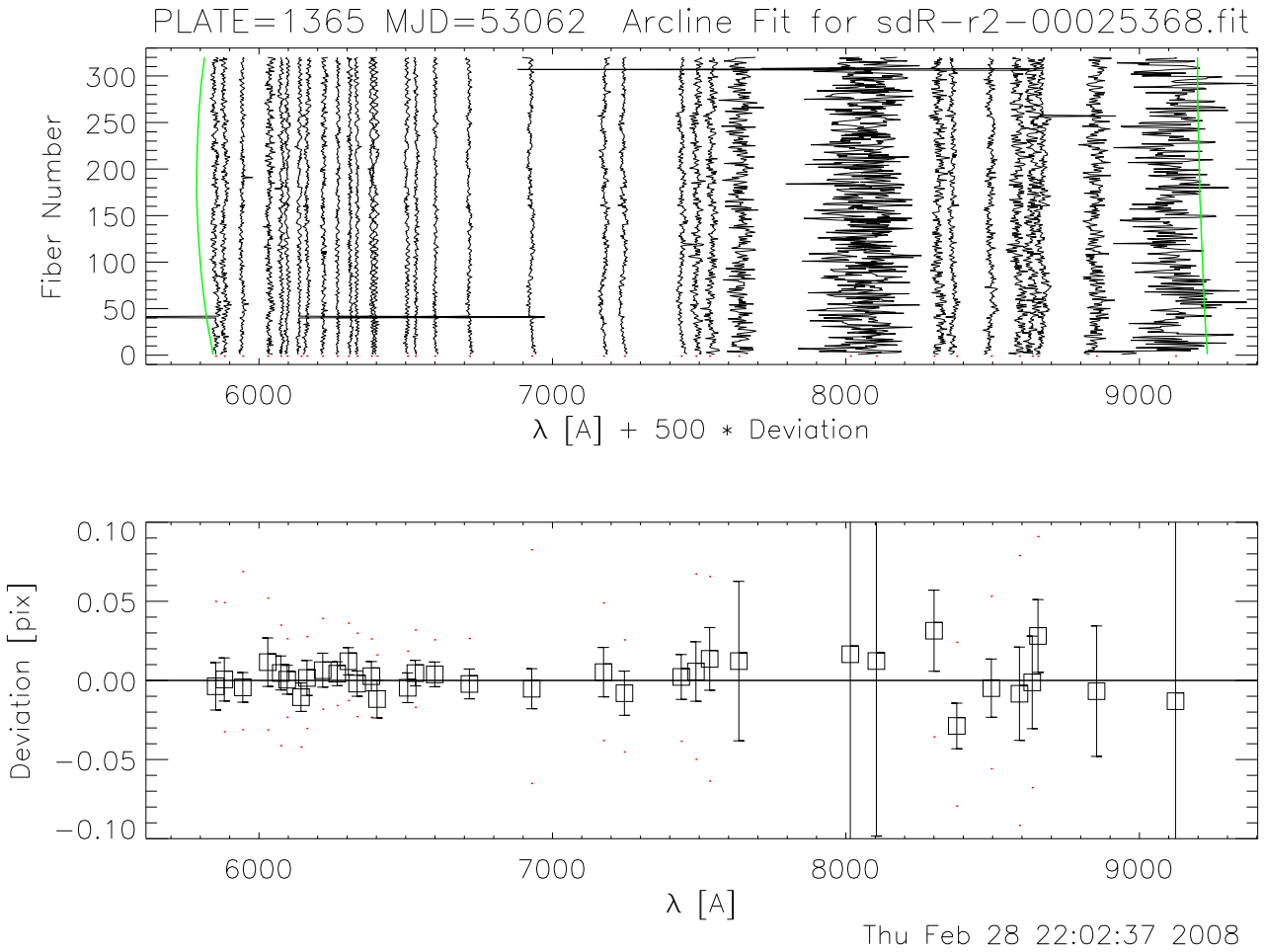

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

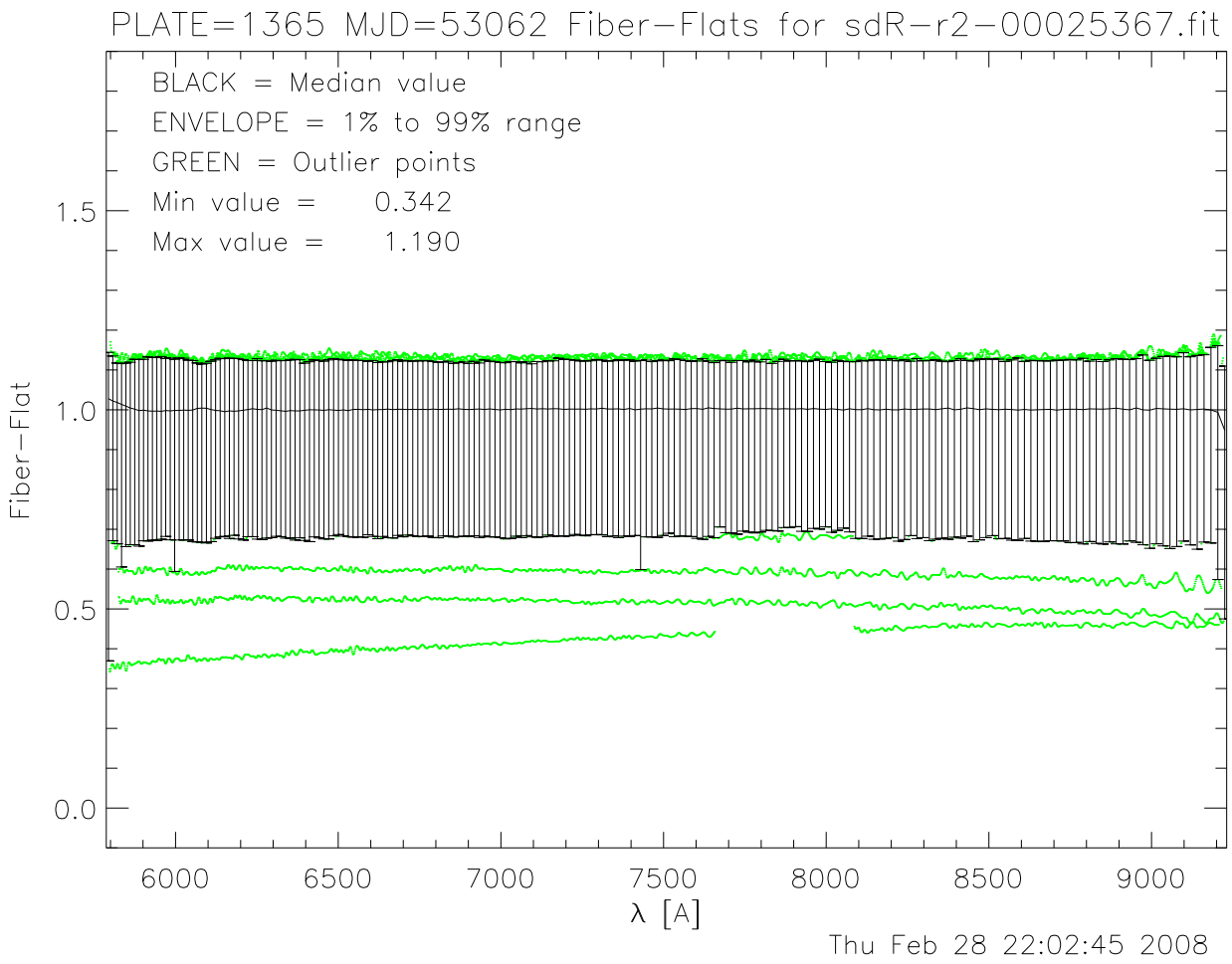

PLATE=1365 MJD=53062 flat extraction chi^2 for sdR-r2-00025362.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

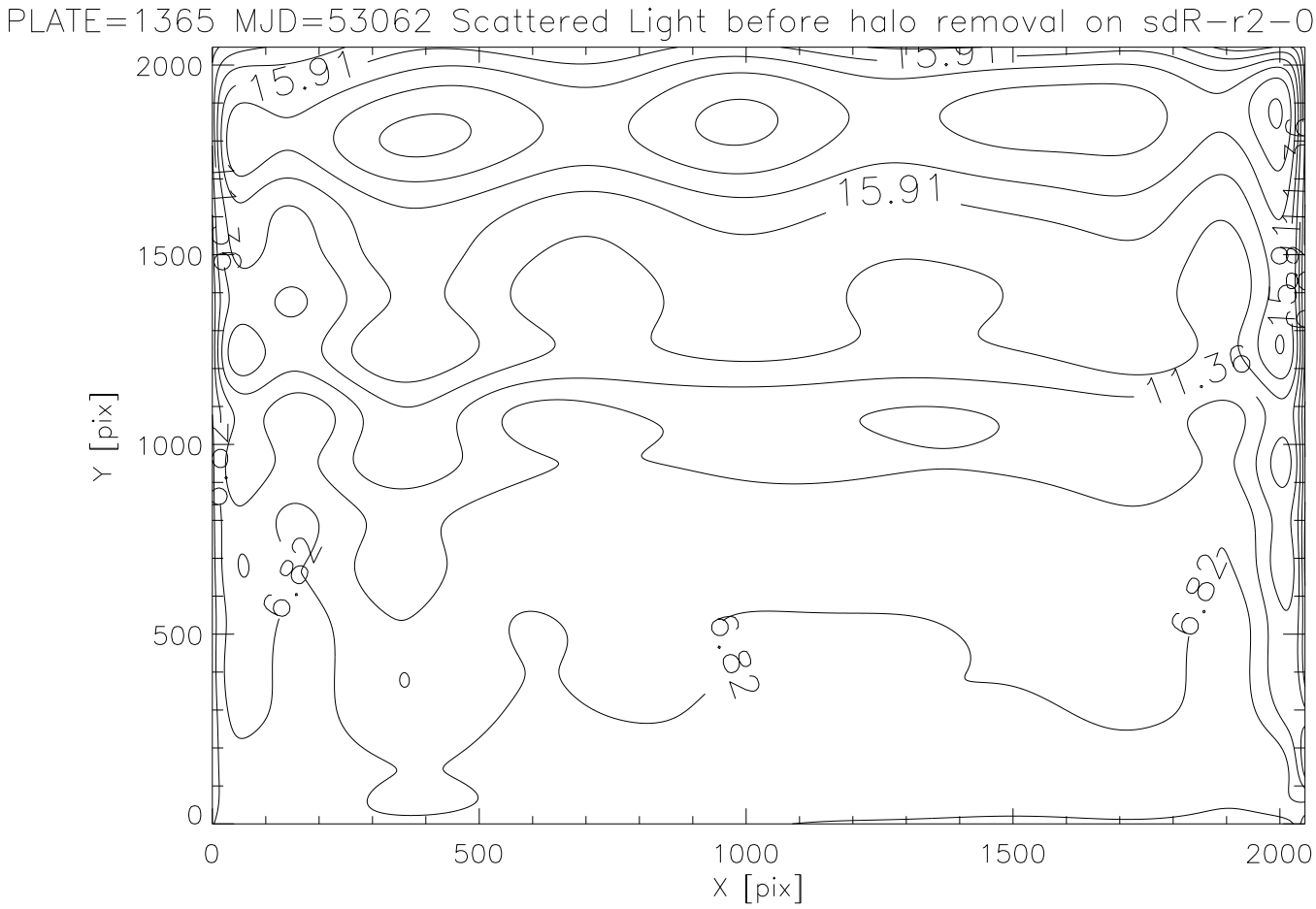

PLATE=1365 MJD=53062 Superflat sdR-r2-00025362.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

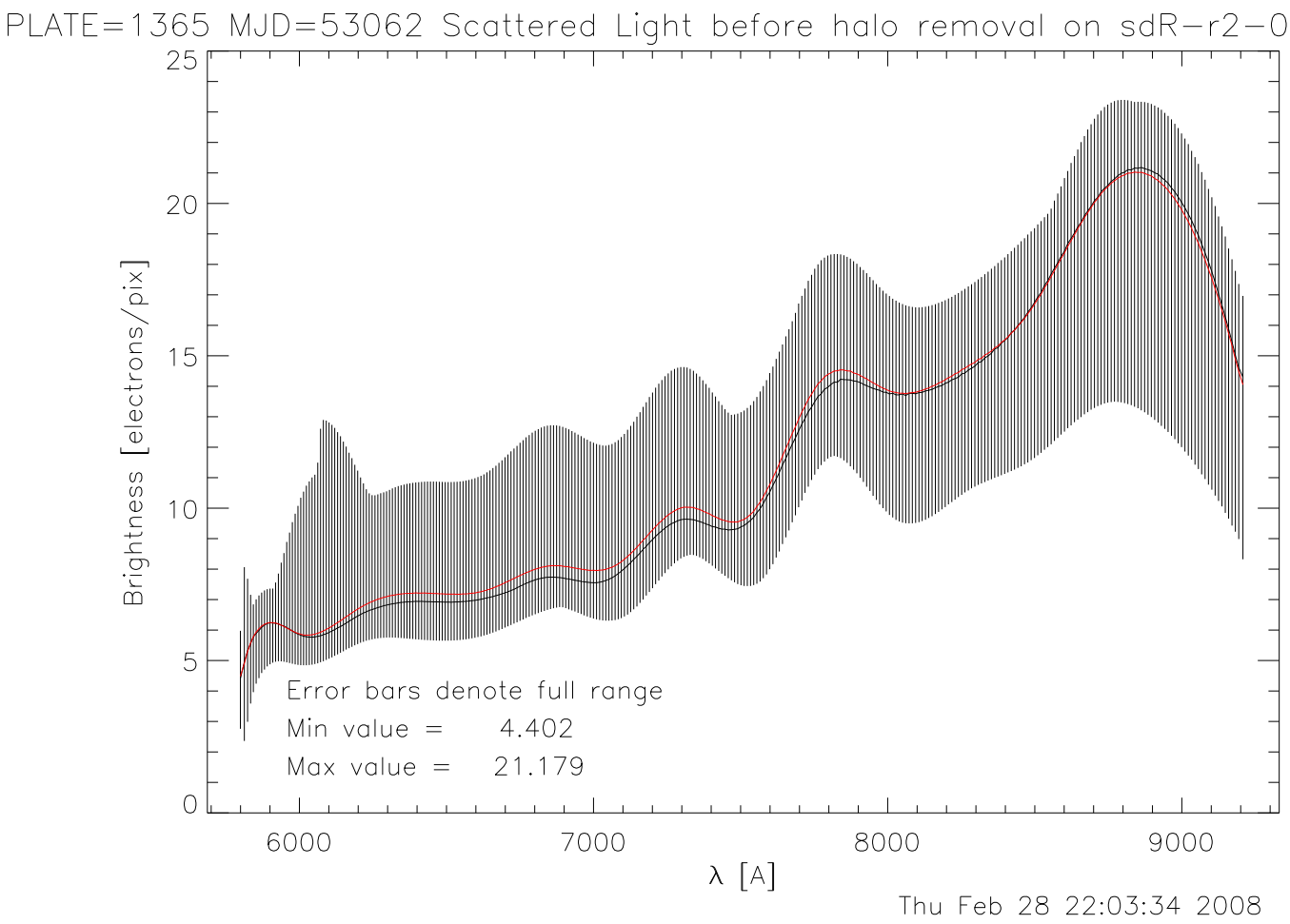

PLATE=1365 MJD=53062 flat extraction chi^2 for sdR−r2−00025367.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

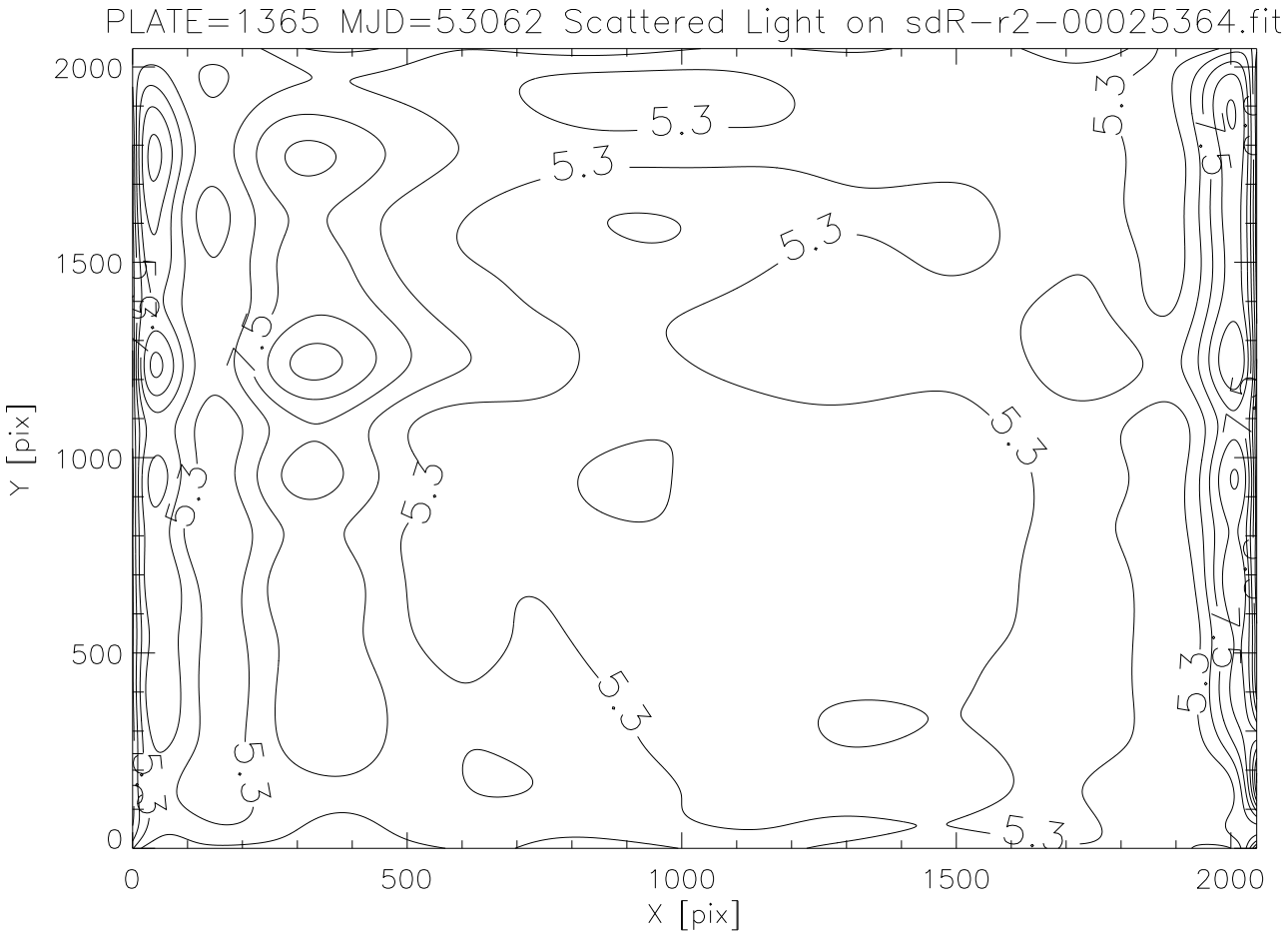

PLATE=1365 MJD=53062 Superflat sdR-r2-00025367.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

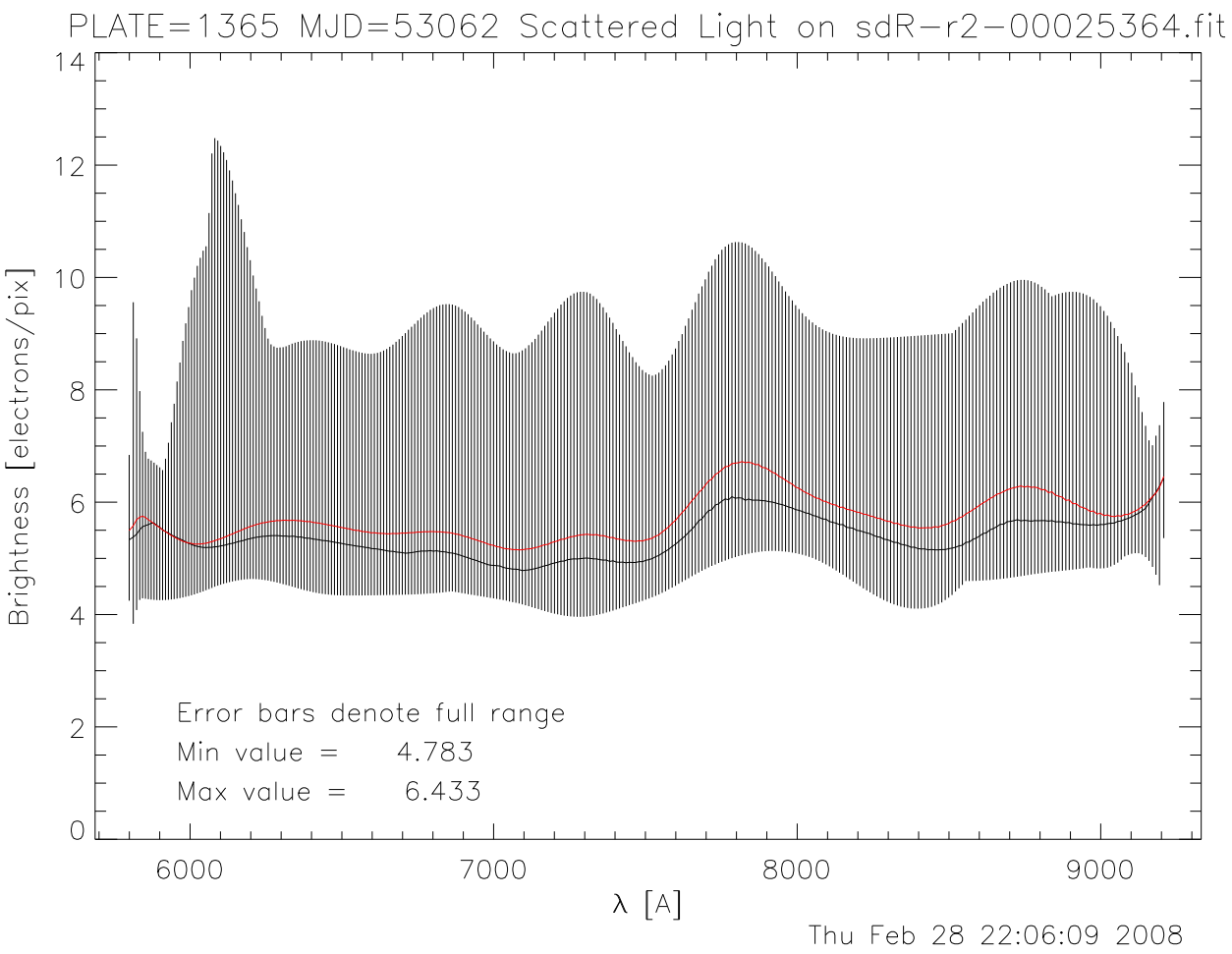

PLATE=1365 MJD=53062 Arcline Fit for sdR-r2-00025368.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Thu Feb 28 22:02:37 2008

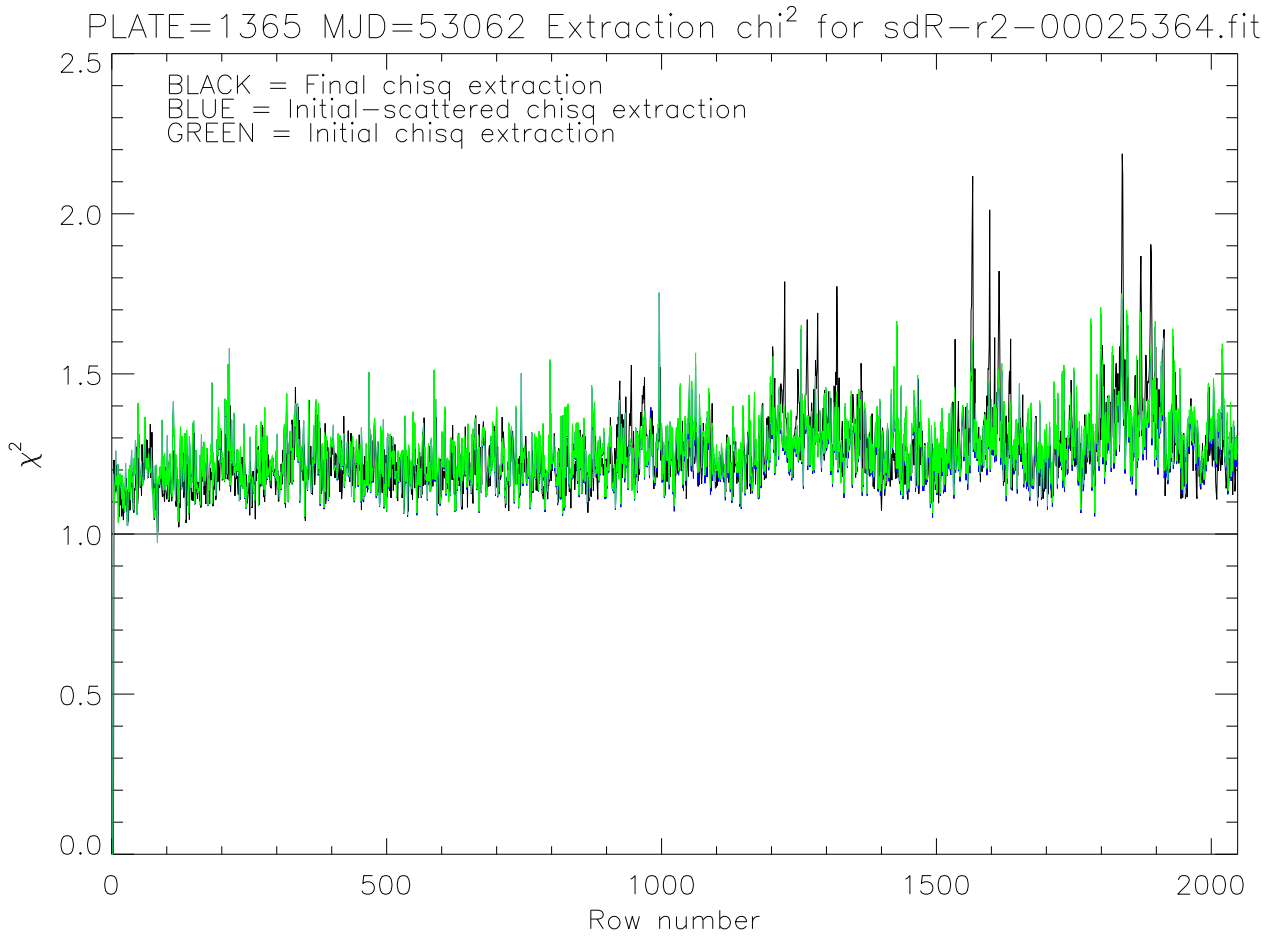

PLATE=1365 MJD=53062 Fiber−Flats for sdR−r2−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.342
Max value = 1.190
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 22:02:45 2008

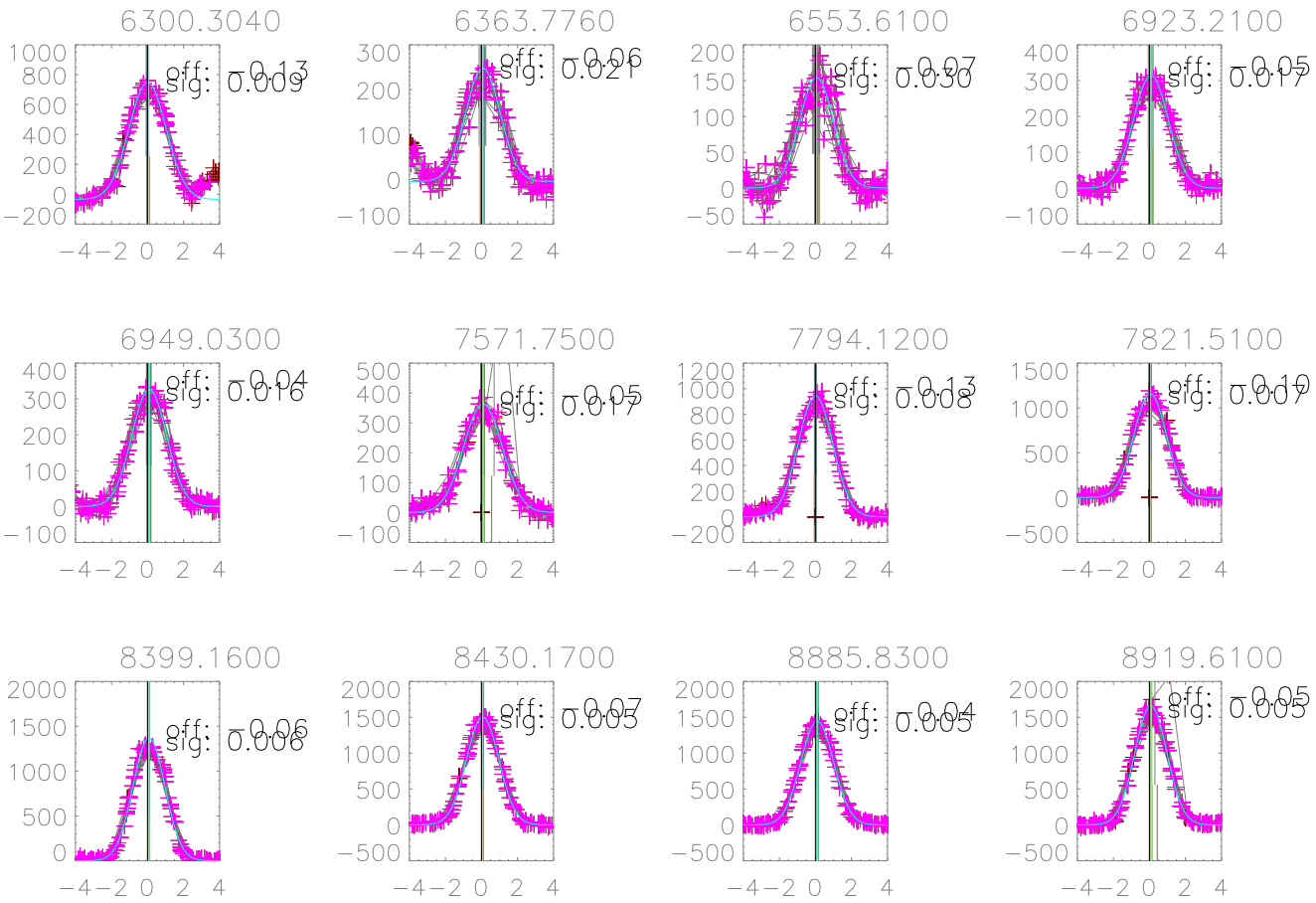

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r2-00025364.fi
15.91
15.91
15.91
11.36
6.82
6.82
6.82
0
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

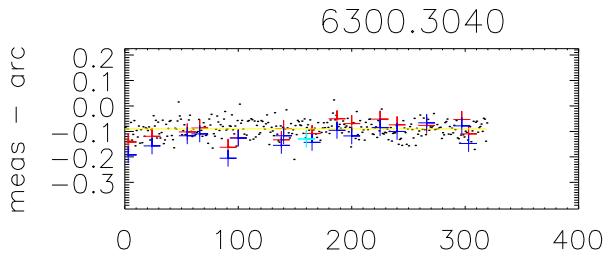

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r2-00025364.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.402
Max value = 21.179
Thu Feb 28 22:03:34 2008

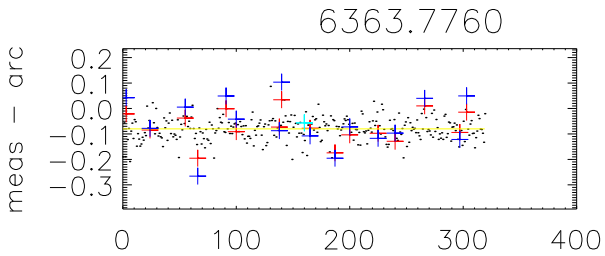

PLATE=1365 MJD=53062 Scattered Light on sdR-r2-00025364.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3

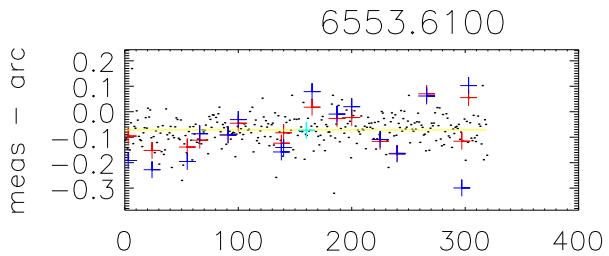

PLATE=1365 MJD=53062 Scattered Light on sdR-r2-00025364.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.783
Max value = 6.433
Thu Feb 28 22:06:09 2008

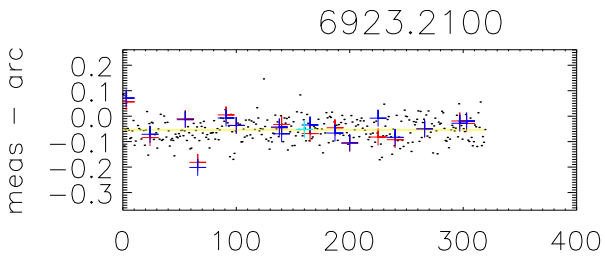

PLATE=1365 MJD=53062 Extraction chi^2 for sdR−r2−00025364.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

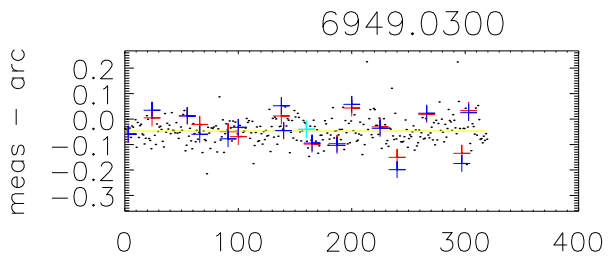

6300.3040
off: -0.13
sig: 0.009
6363.7760
off: -0.06
sig: 0.021
6553.6100
off: -0.07
sig: 0.030
6923.2100
off: -0.05
sig: 0.017
6949.0300
off: -0.04
sig: 0.016
7571.7500
off: -0.05
sig: 0.017
7794.1200
off: -0.13
sig: 0.008
7821.5100
off: -0.10
sig: 0.007
8399.1600
off: -0.06
sig: 0.006
8430.1700
off: -0.07
sig: 0.005
8885.8300
off: -0.04
sig: 0.005
8919.6100
off: -0.05
sig: 0.005

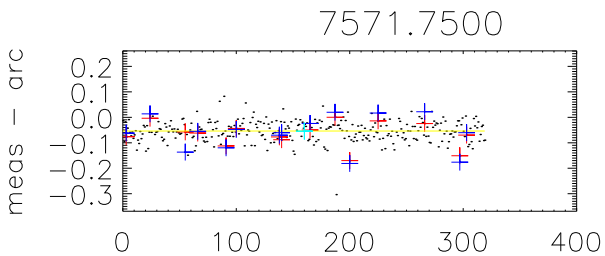

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

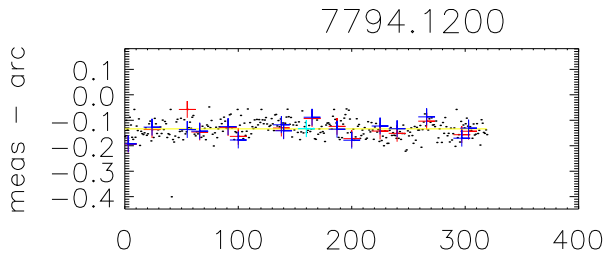

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

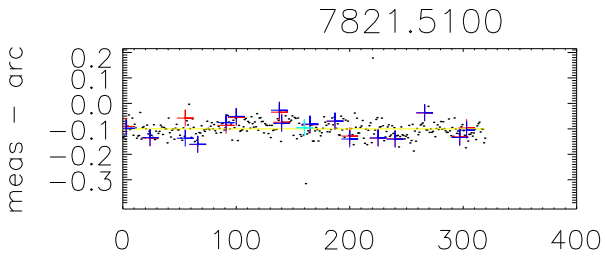

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

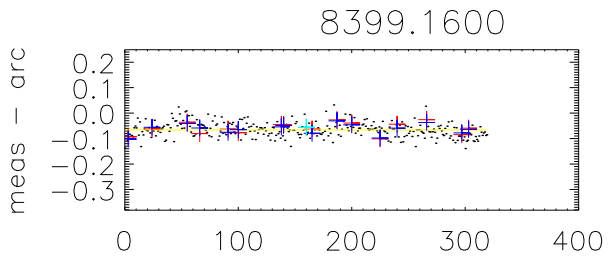

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

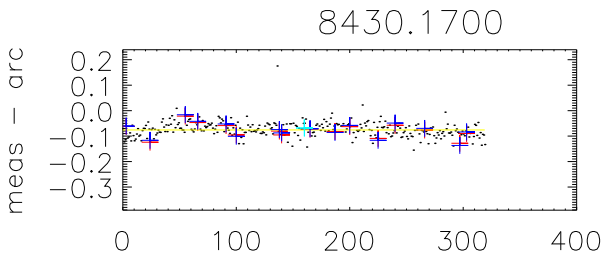

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

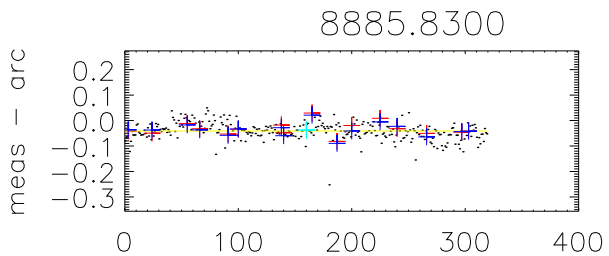

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

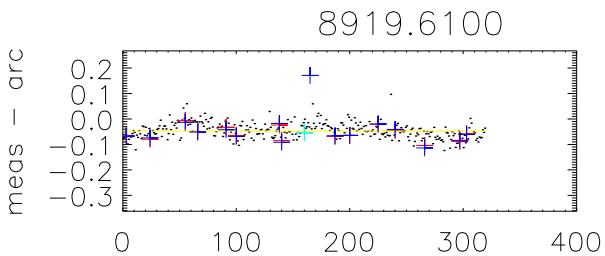

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

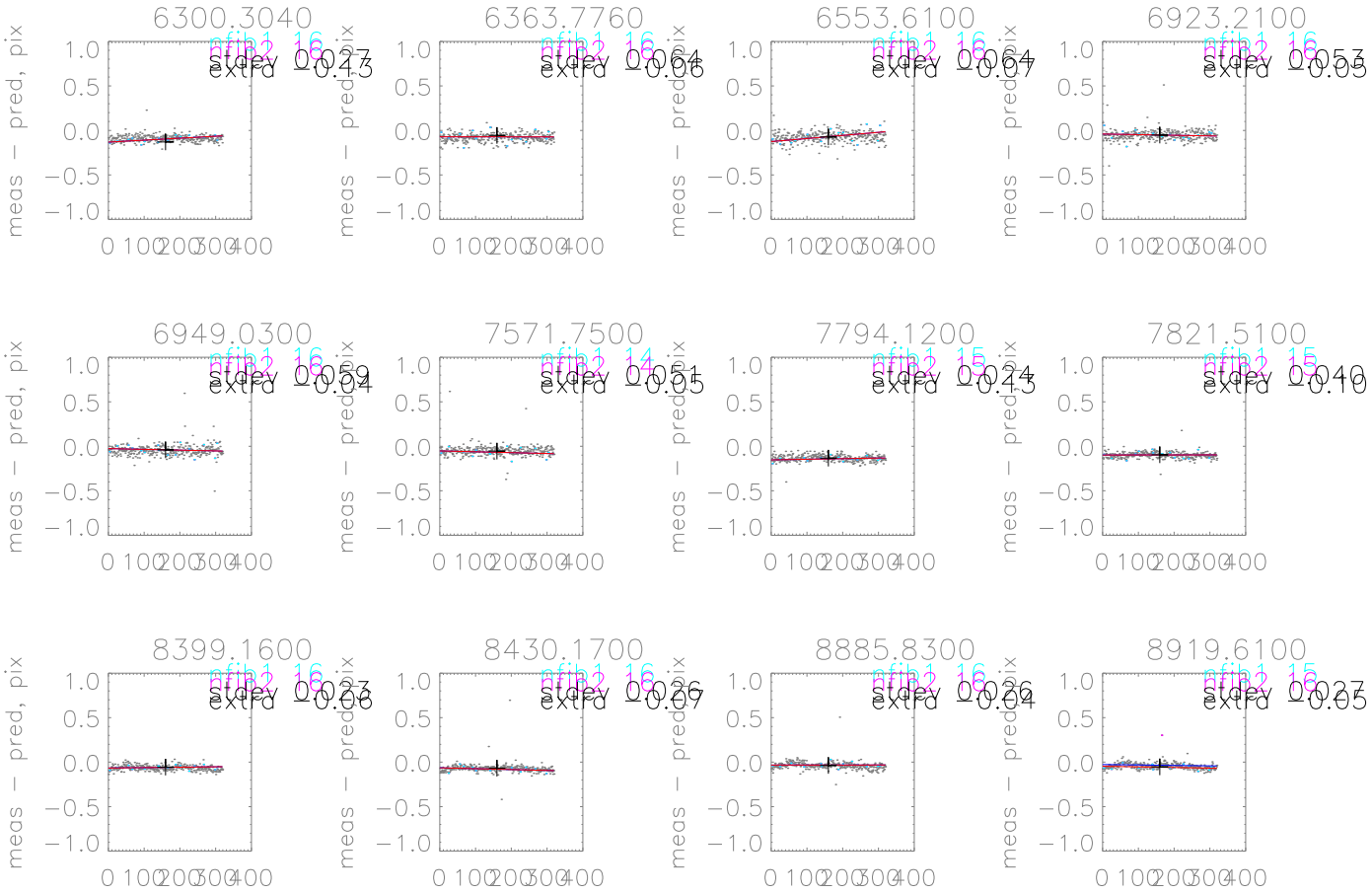

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

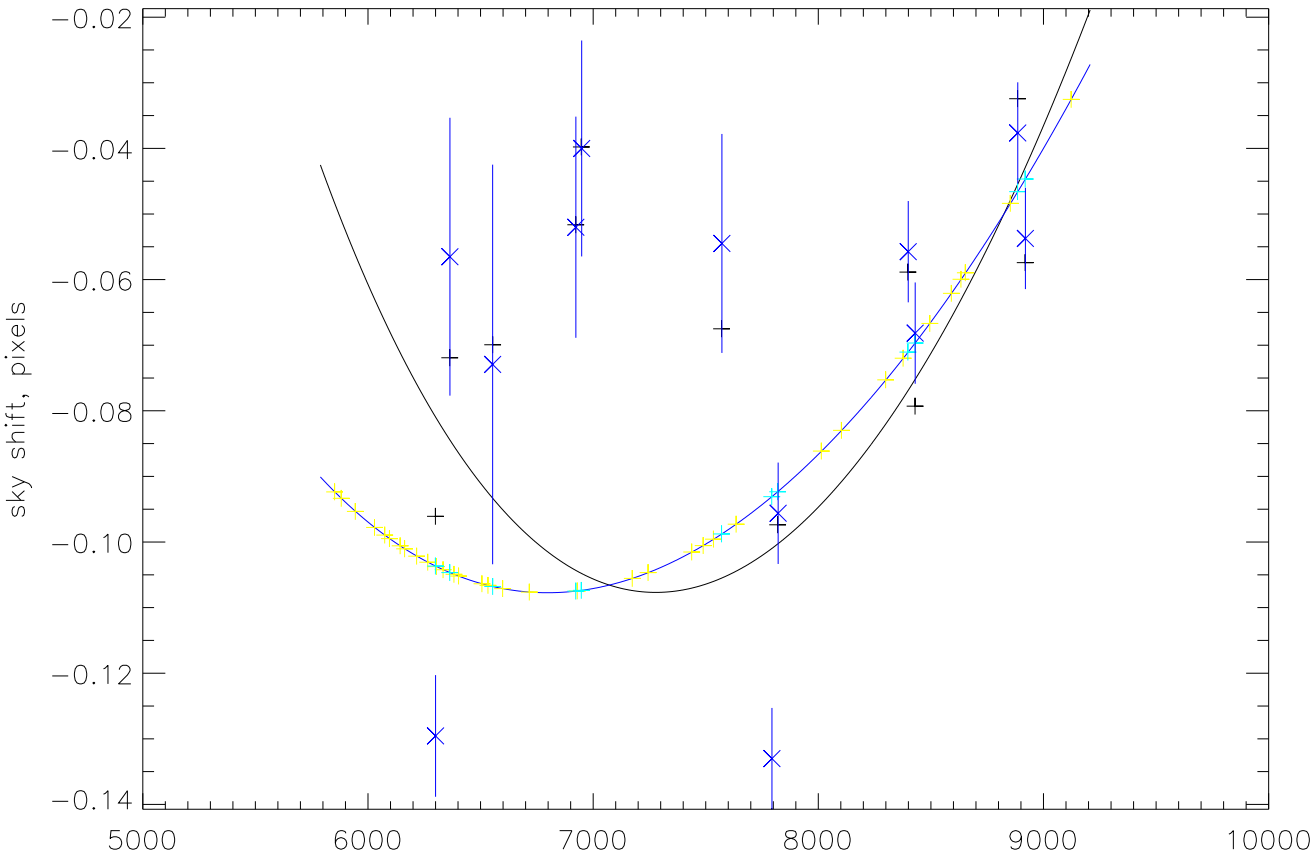

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

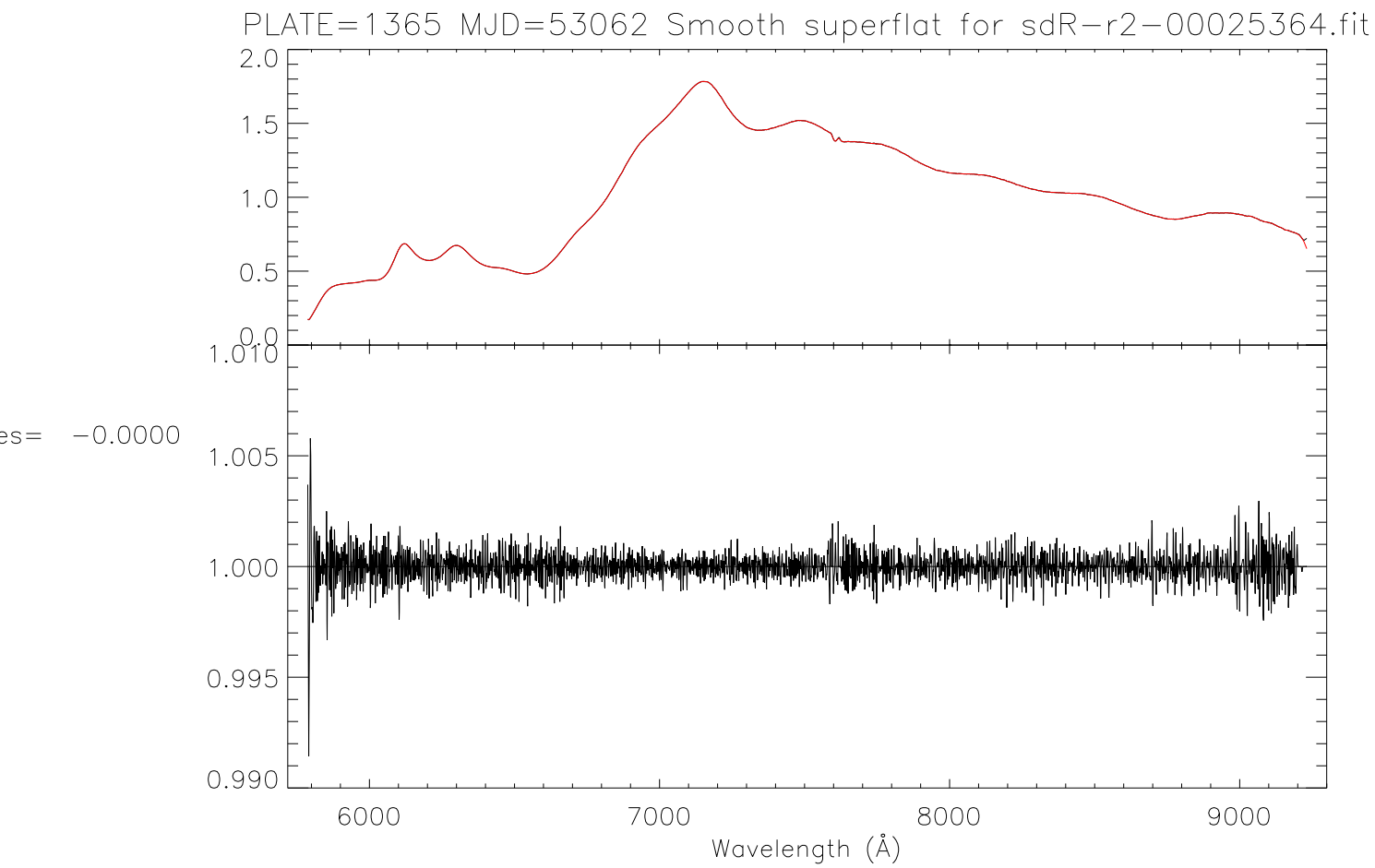

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

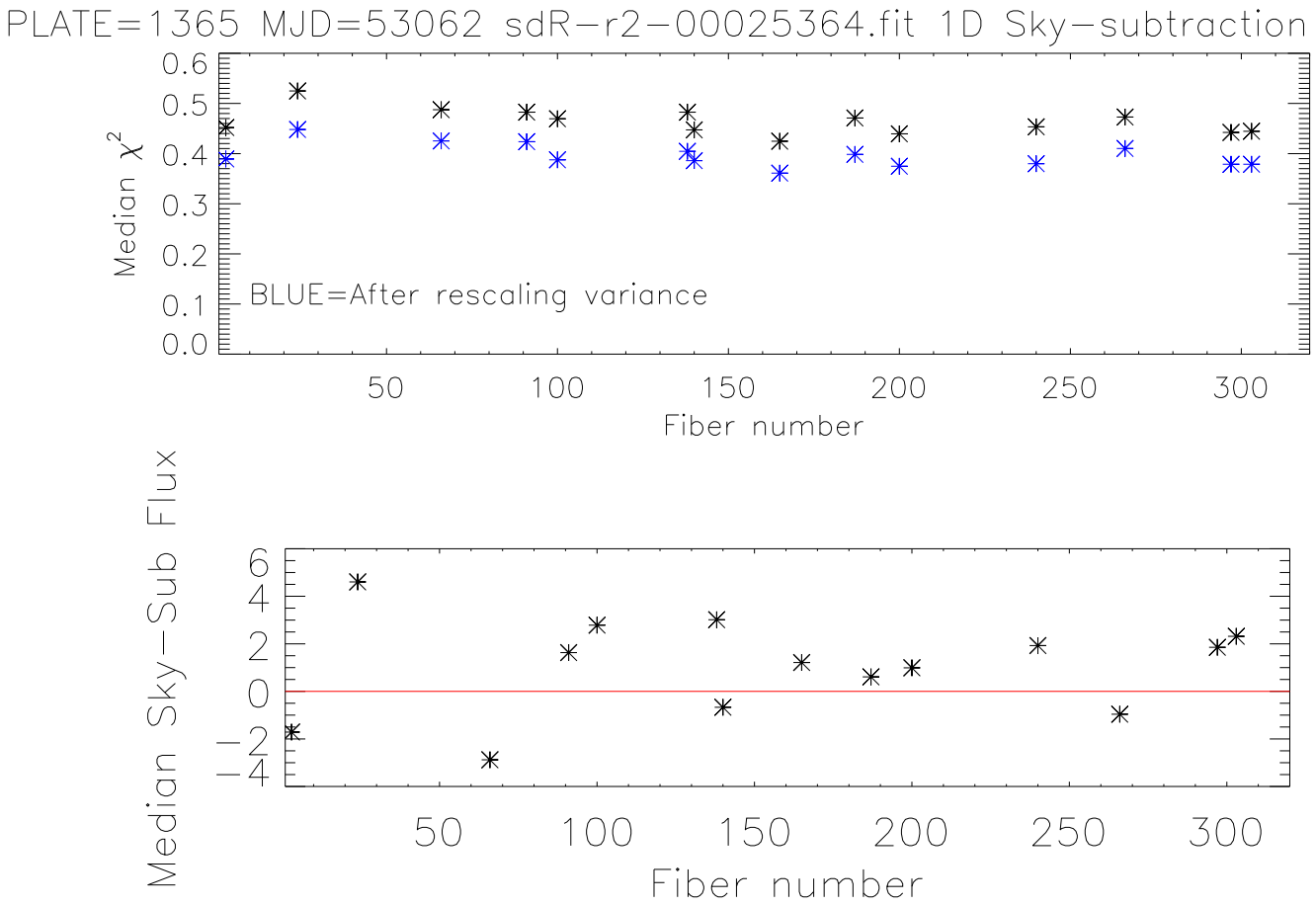

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

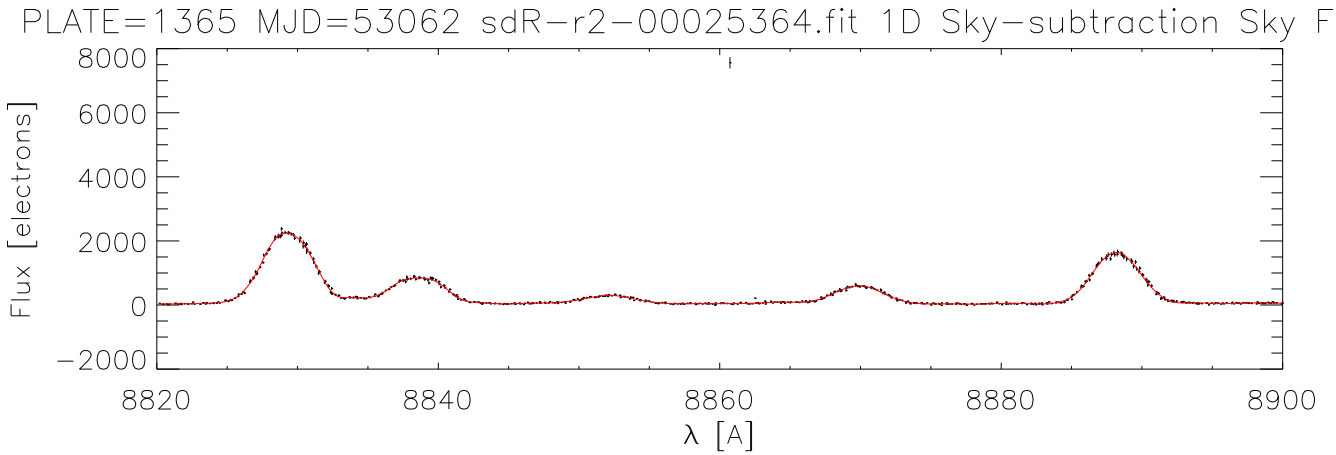

6300.3040
mfib1 16
mfib2 16
stdev 0.027
extra 0.43
6363.7760
mfib1 16
mfib2 16
stdev 0.064
extra 0.06
6553.6100
mfib1 16
mfib2 16
stdev 0.064
extra 0.07
6923.2100
mfib1 16
mfib2 16
stdev 0.053
extra 0.05
6949.0300
mfib1 16
mfib2 16
stdev 0.059
extra 0.04
7571.7500
mfib1 14
mfib2 16
stdev 0.051
extra 0.05
7794.1200
mfib1 15
mfib2 16
stdev 0.044
extra 0.43
7821.5100
mfib1 15
mfib2 15
stdev 0.040
extra 0.10
8399.1600
mfib1 16
mfib2 16
stdev 0.027
extra 0.06
8430.1700
mfib1 16
mfib2 16
stdev 0.026
extra 0.07
8885.8300
mfib1 16
mfib2 16
stdev 0.026
extra 0.04
8919.6100
mfib1 15
mfib2 16
stdev 0.027
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

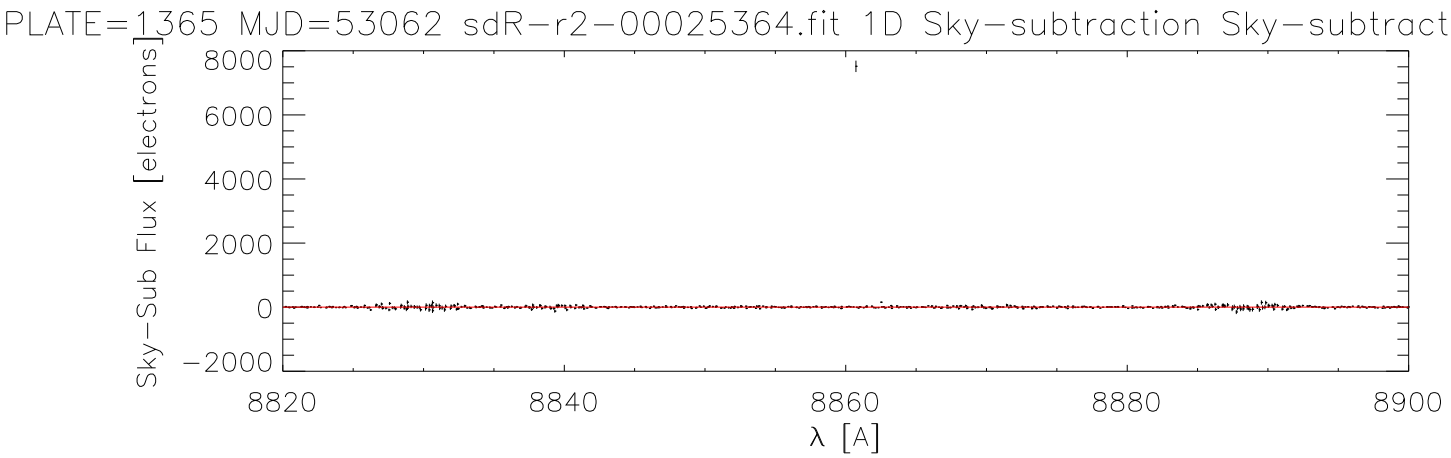

−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
sky shift, pixels
5000
6000
7000
8000
9000
10000

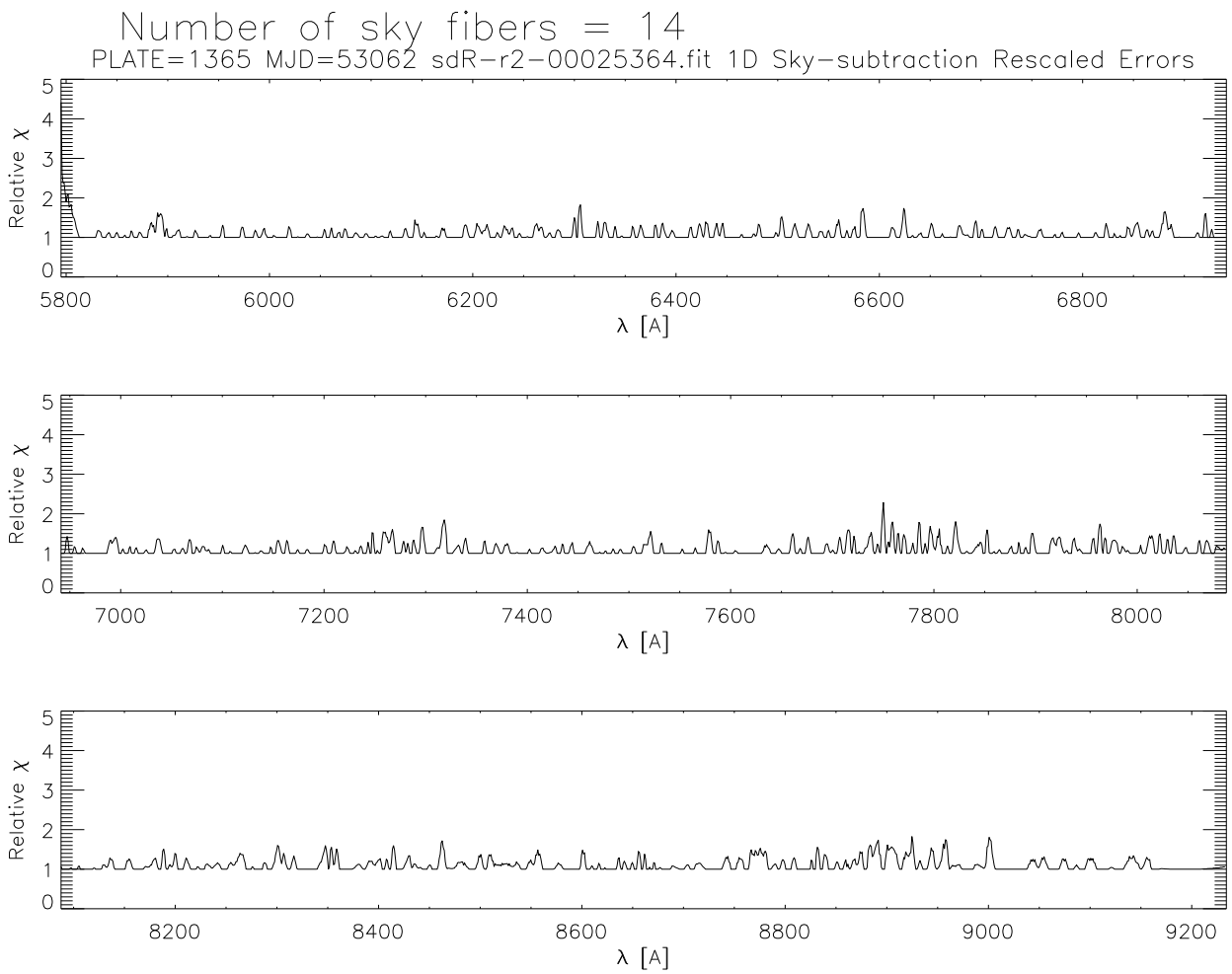

PLATE=1365 MJD=53062 Smooth superflat for sdR-r2-00025364.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

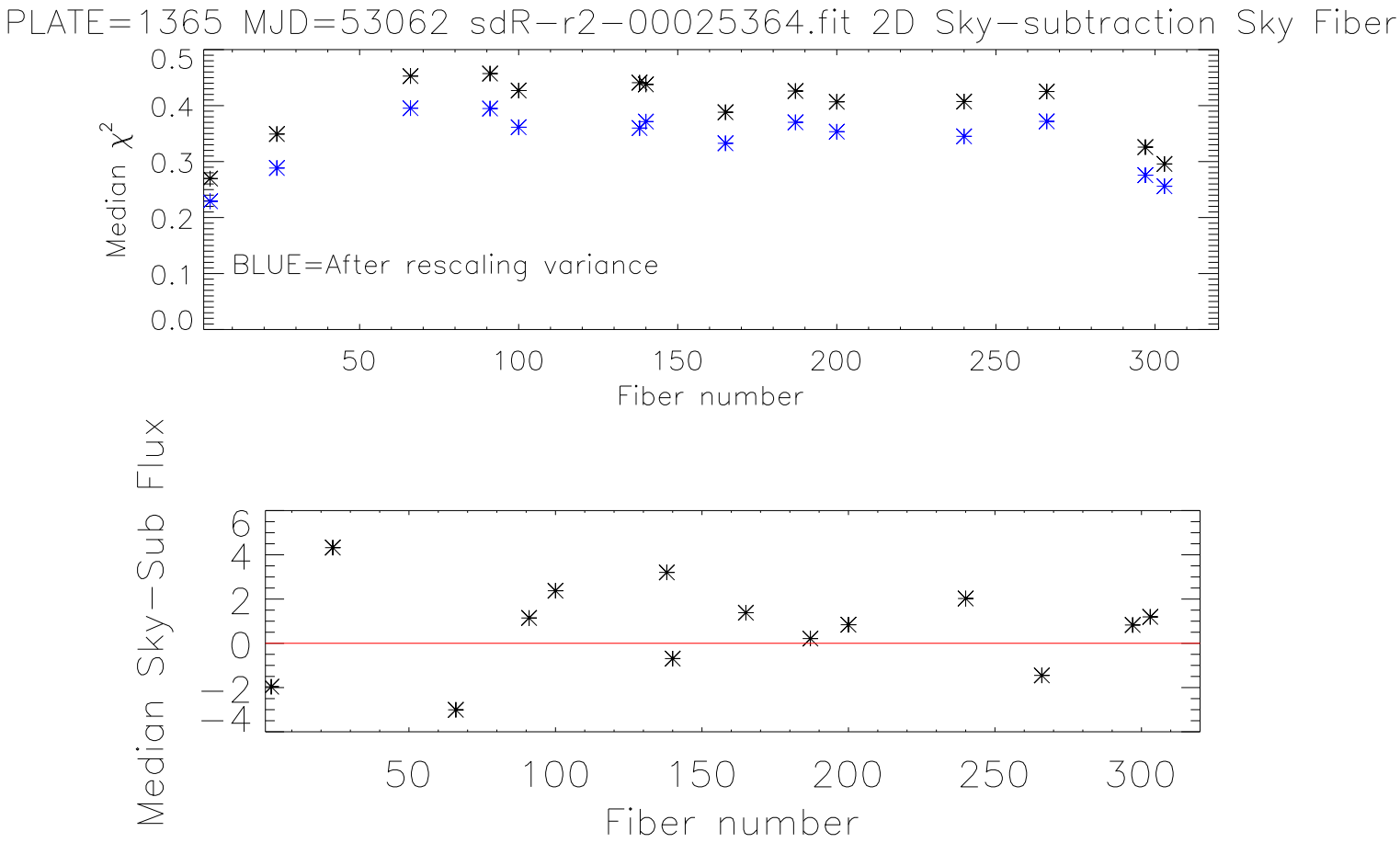
es= −0.0000

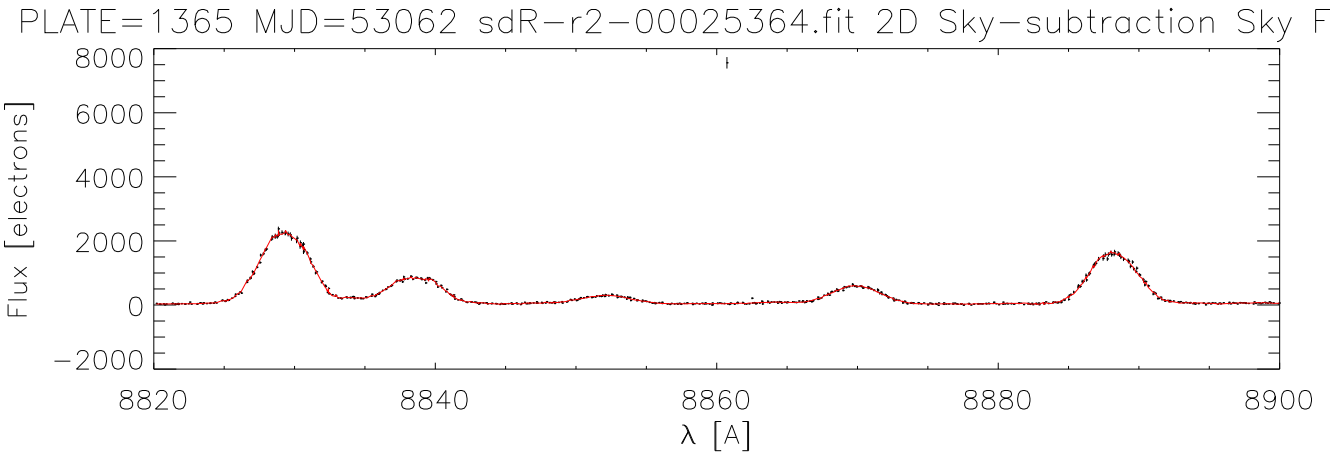

PLATE=1365 MJD=53062 sdR-r2-00025364.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

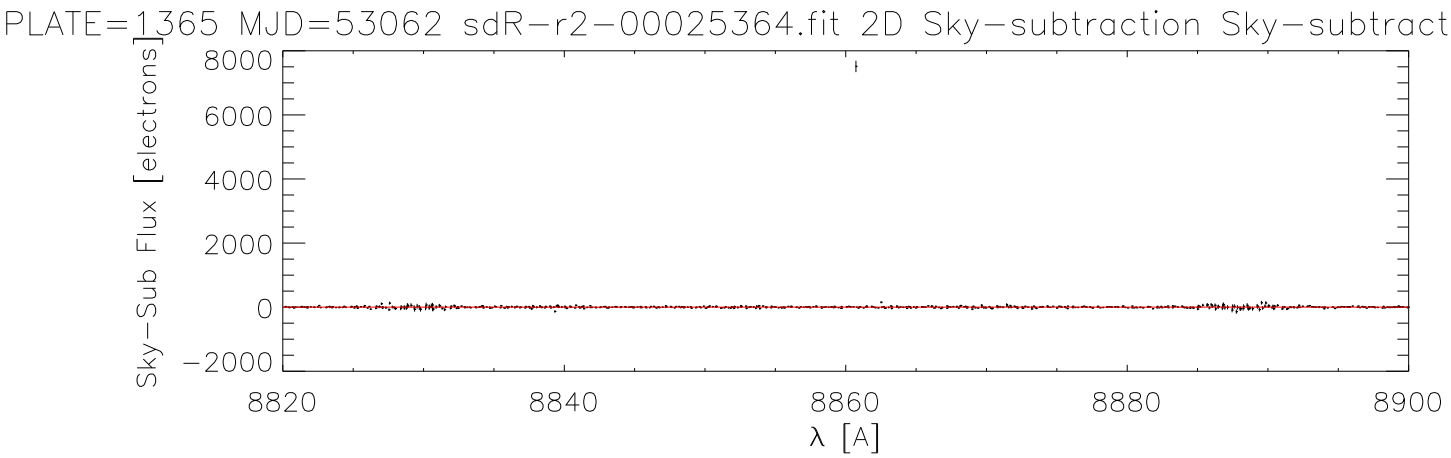

PLATE=1365 MJD=53062 sdR-r2-00025364.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

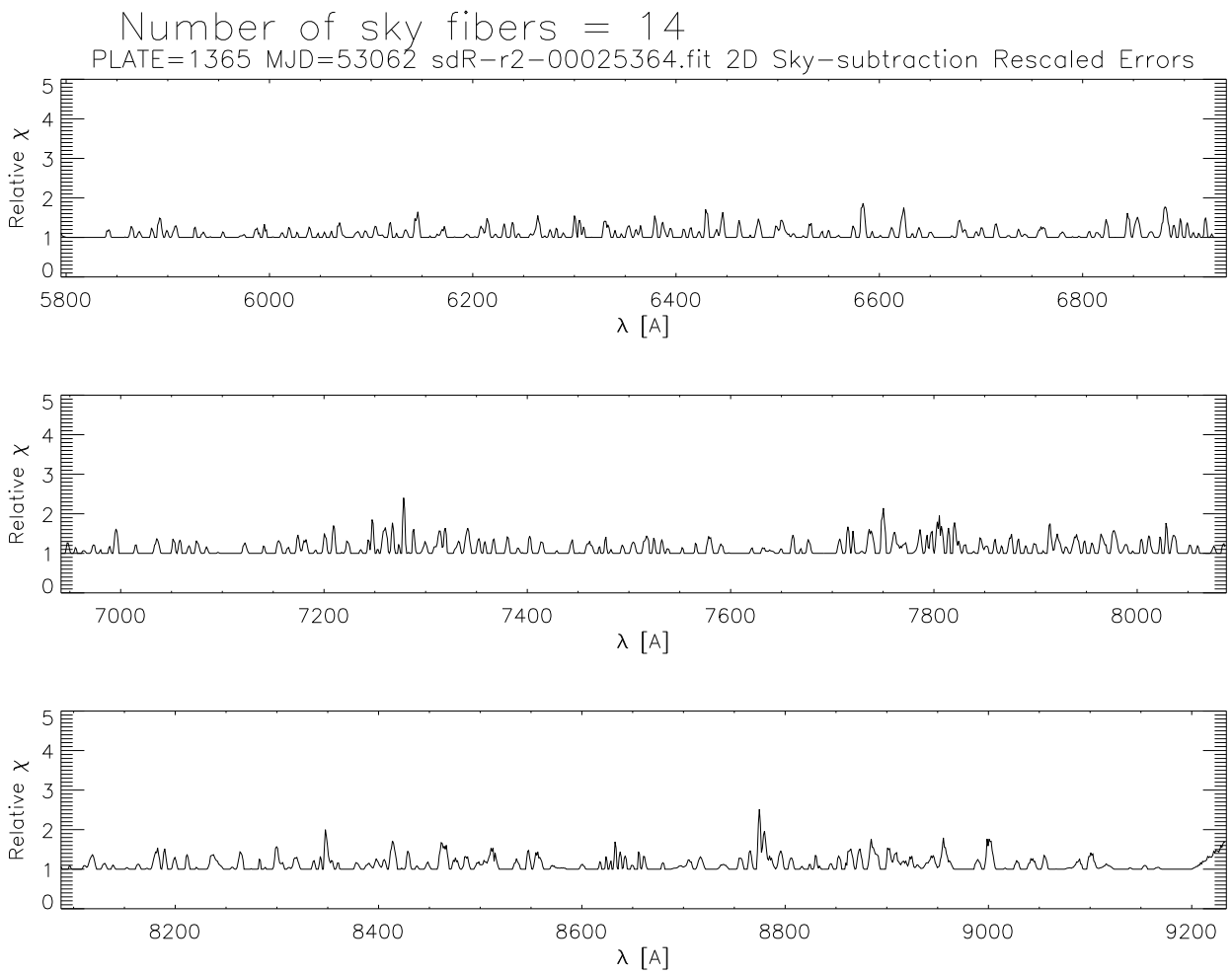

PLATE=1365 MJD=53062 sdR-r2-00025364.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

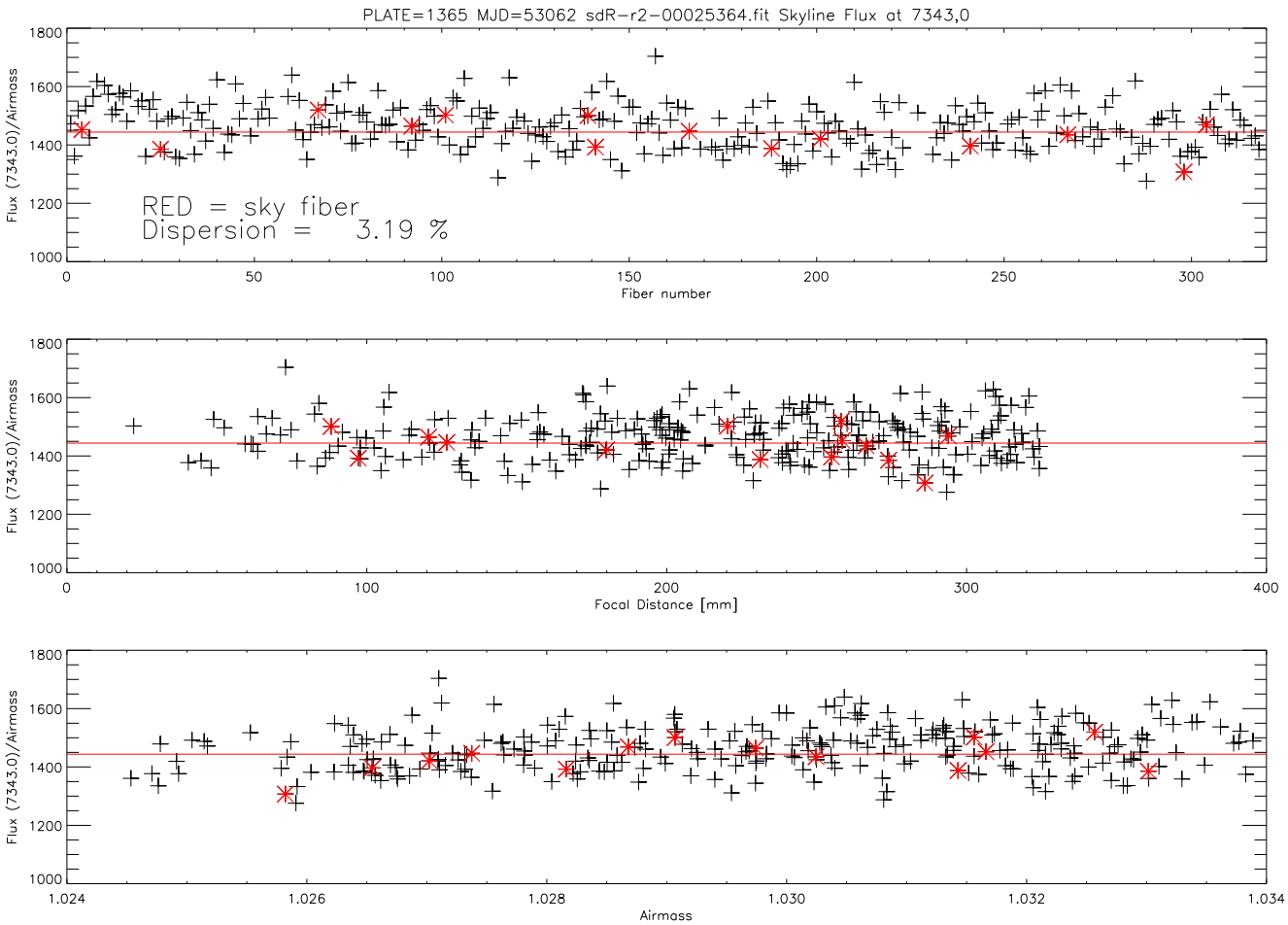

Number of sky fibers = 14
PLATE=1365 MJD=53062 sdR-r2-00025364.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

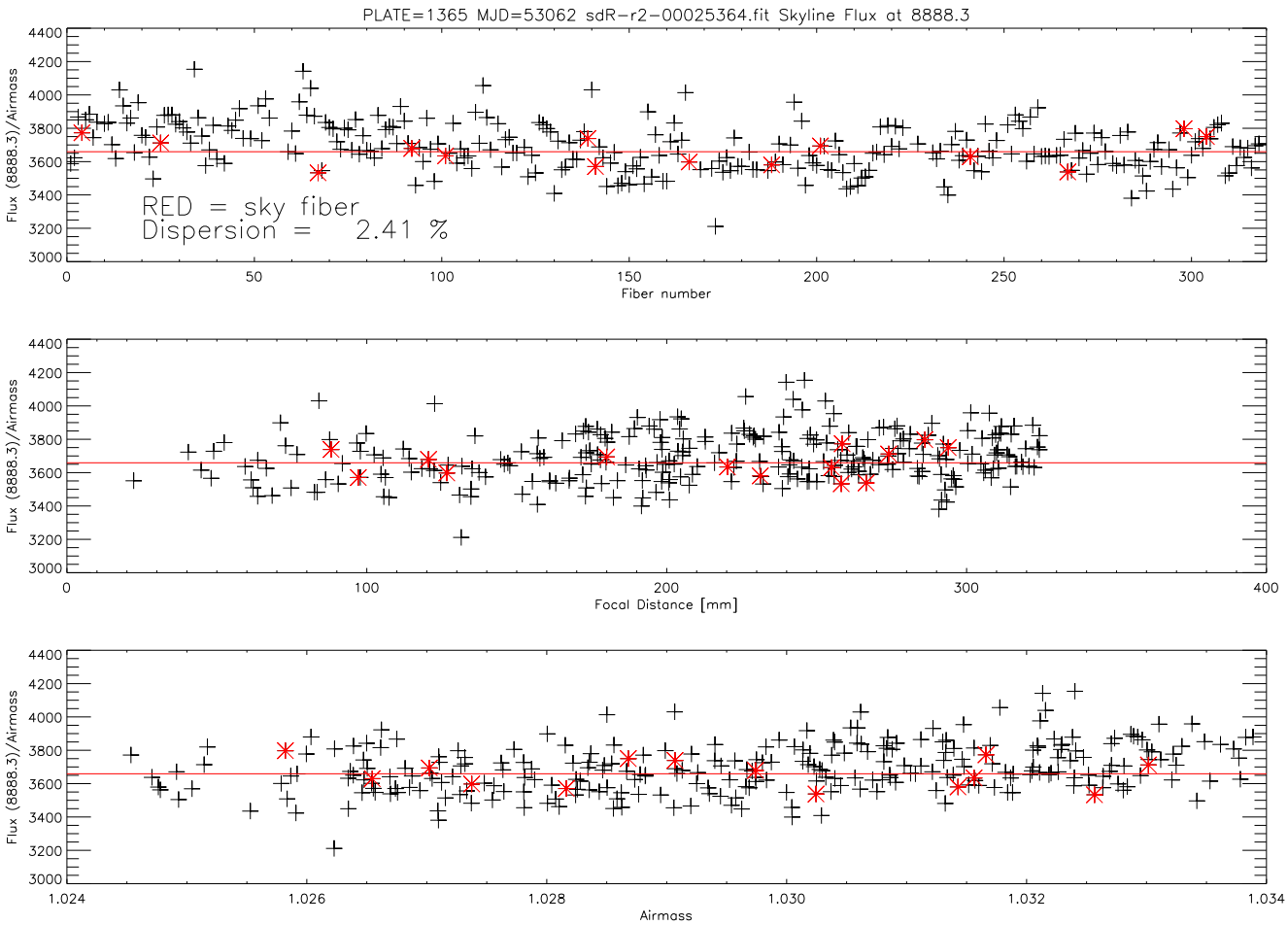

PLATE=1365 MJD=53062 sdR-r2-00025364.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

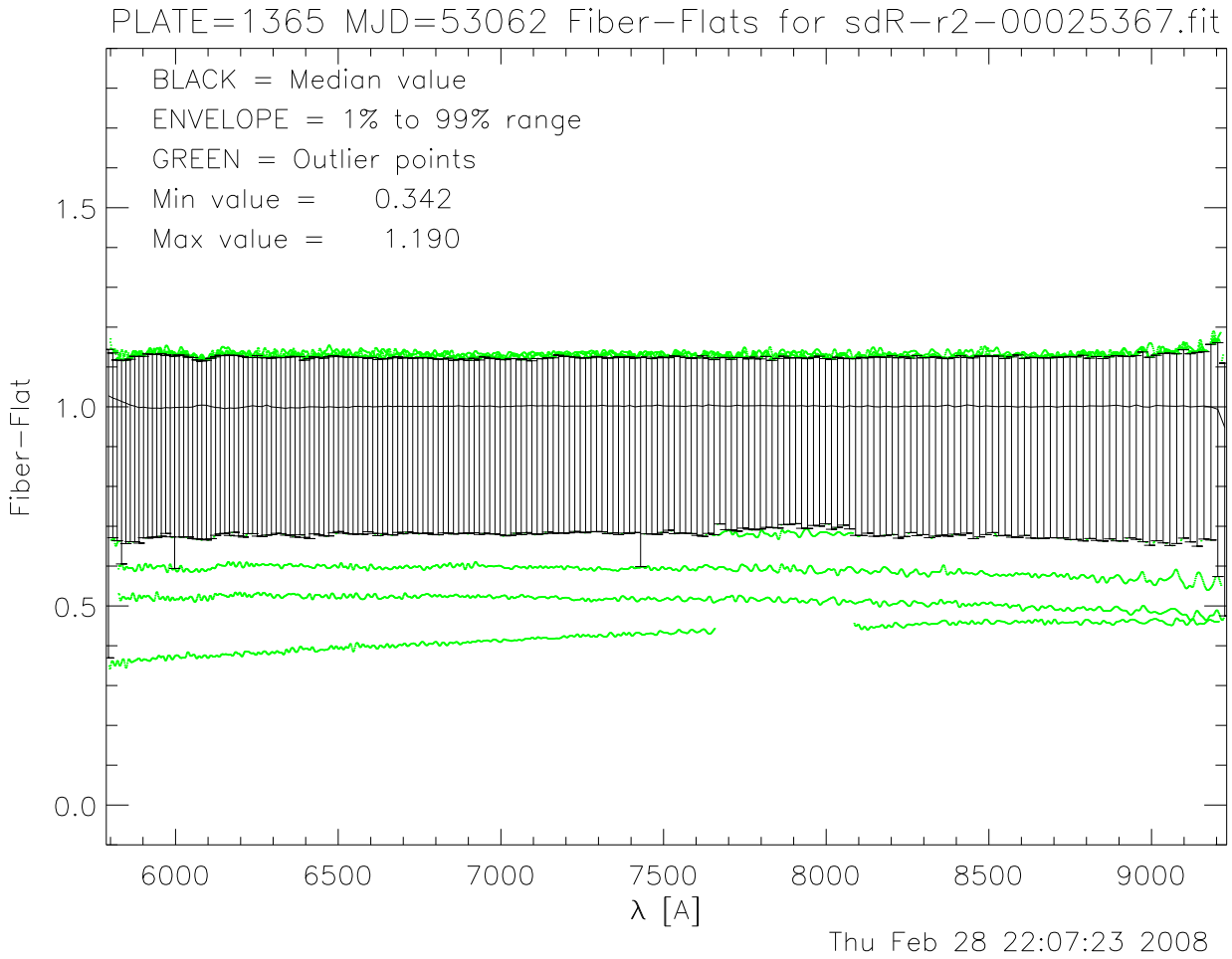

PLATE=1365 MJD=53062 sdR-r2-00025364.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

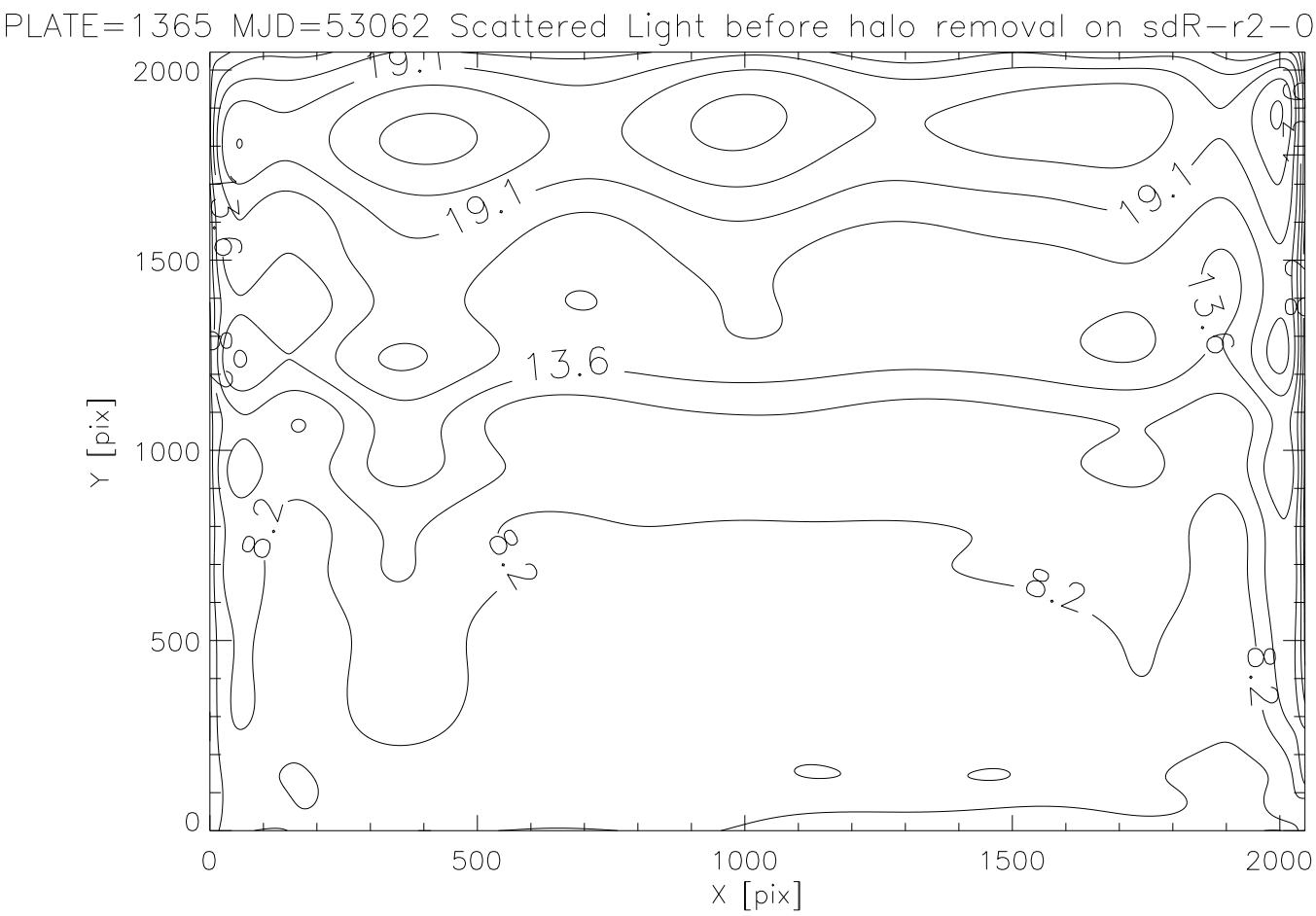

PLATE=1365 MJD=53062 sdR-r2-00025364.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

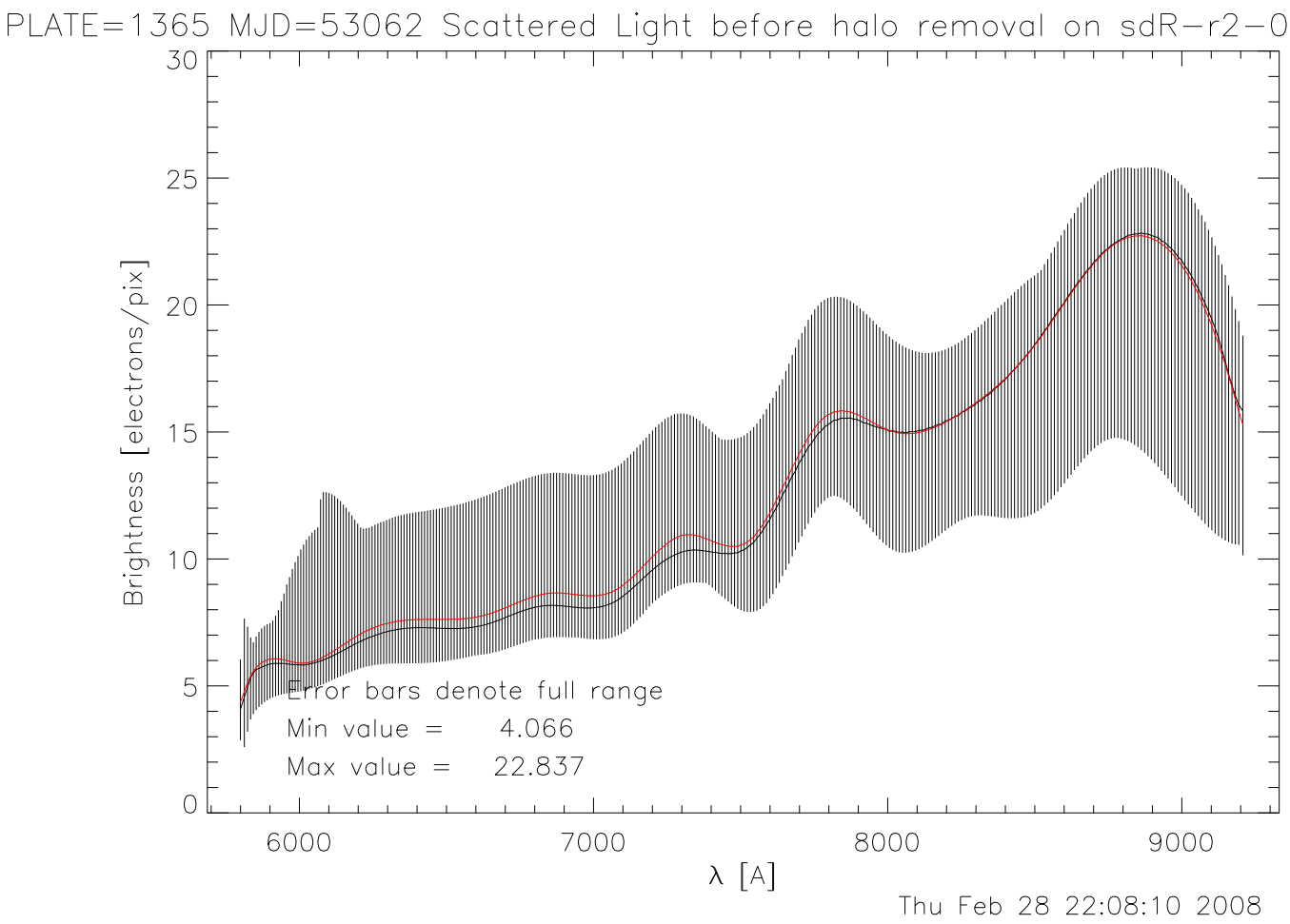

Number of sky fibers = 14
PLATE=1365 MJD=53062 sdR-r2-00025364.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

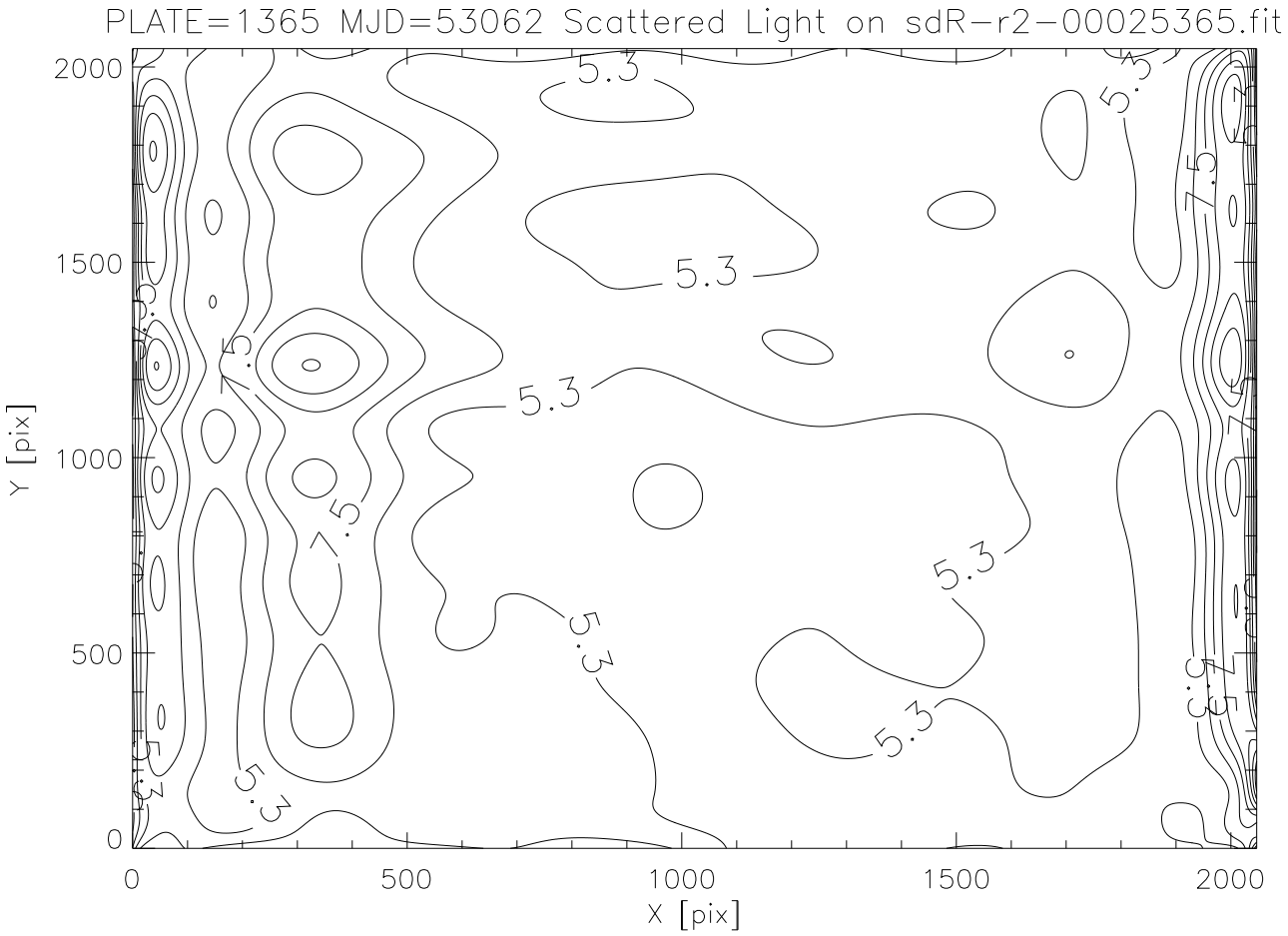

PLATE=1365 MJD=53062 sdR-r2-00025364.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.19 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

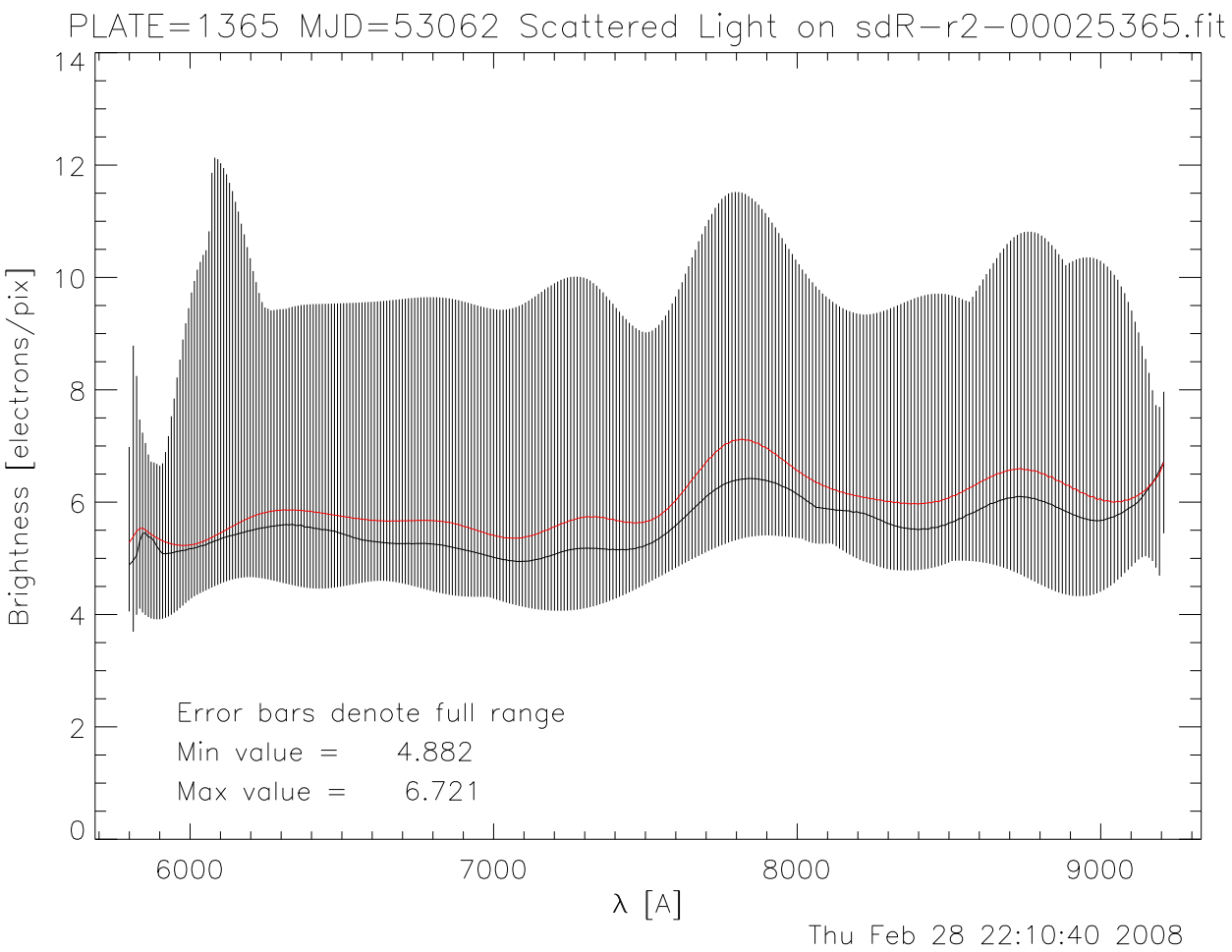

PLATE=1365 MJD=53062 sdR-r2-00025364.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.41 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

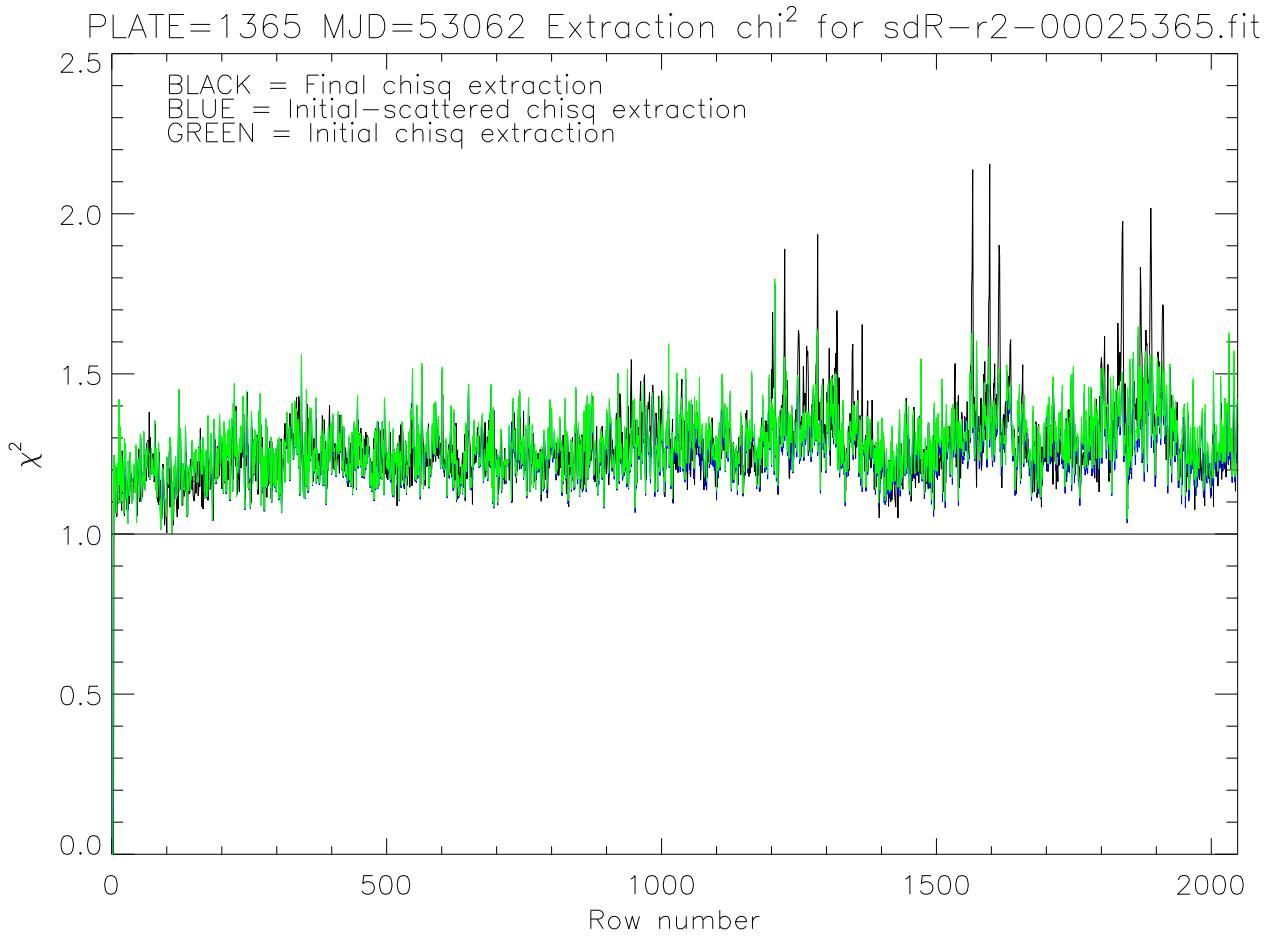

PLATE=1365 MJD=53062 Fiber−Flats for sdR−r2−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.342
Max value = 1.190
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 22:07:23 2008

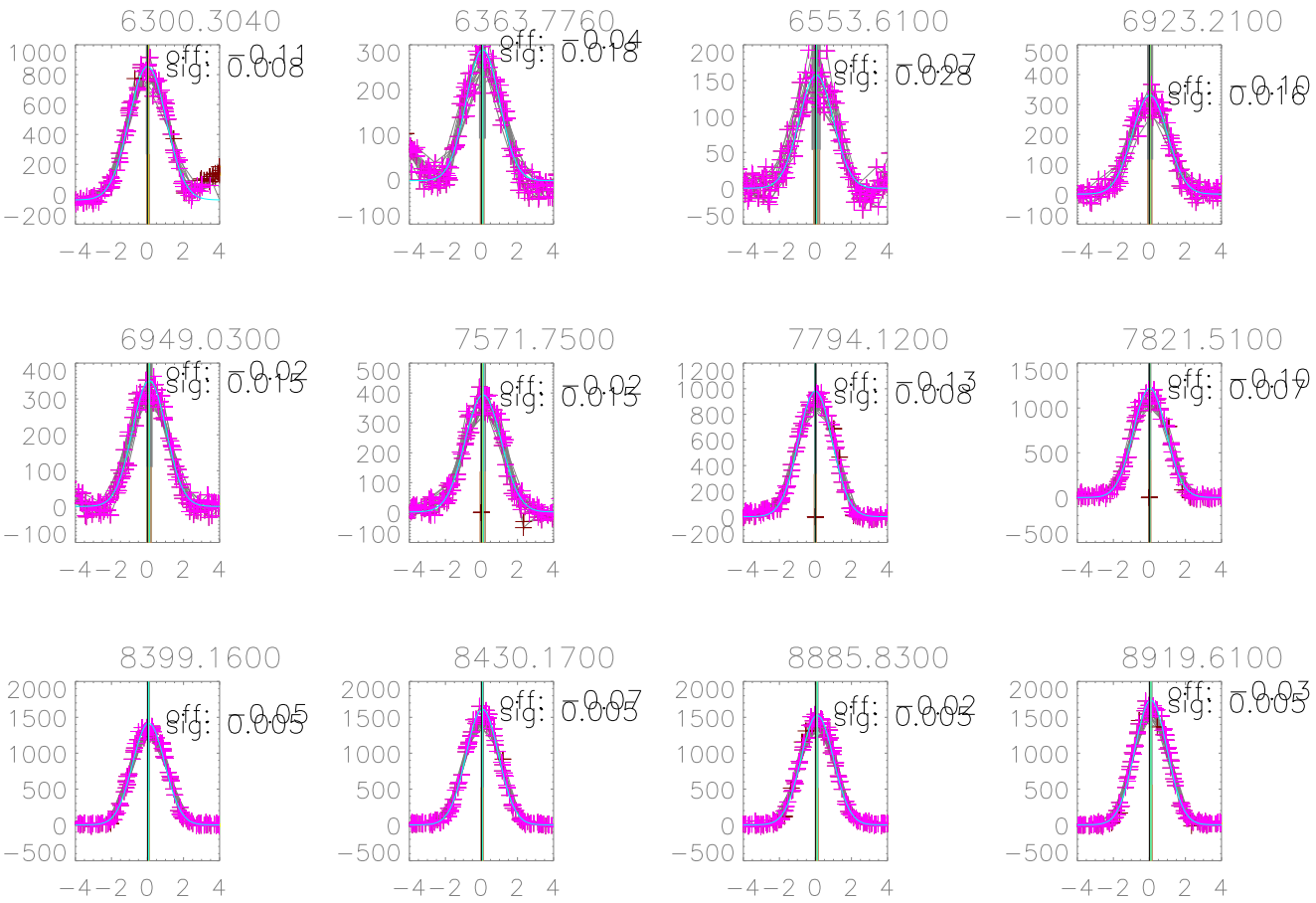

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r2-00025365.fi
19.1
19.1
19.1
13.6
13.6
8.2
8.2
8.2
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

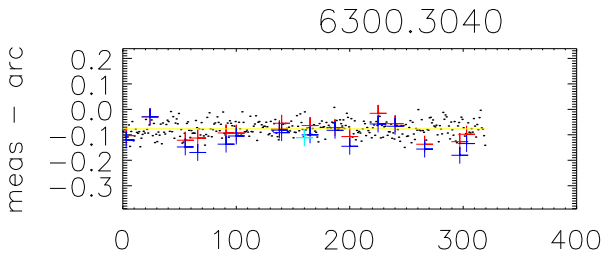

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r2-00025365.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.066
Max value = 22.837
Thu Feb 28 22:08:10 2008

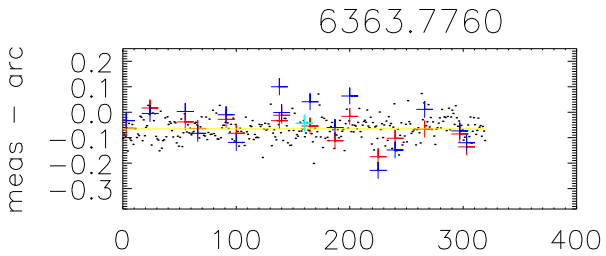

PLATE=1365 MJD=53062 Scattered Light on sdR-r2-00025365.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5

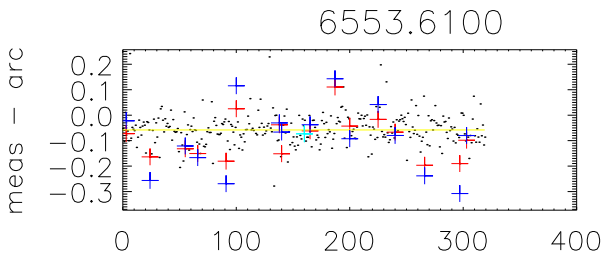

PLATE=1365 MJD=53062 Scattered Light on sdR-r2-00025365.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.882
Max value = 6.721
Thu Feb 28 22:10:40 2008

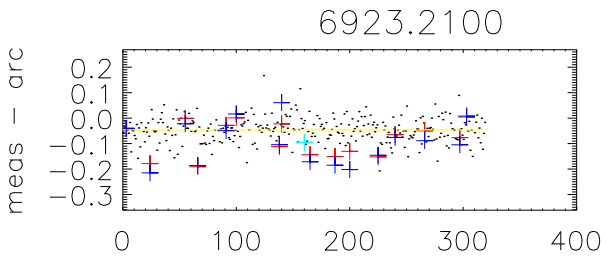

PLATE=1365 MJD=53062 Extraction chi^2 for sdR−r2−00025365.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

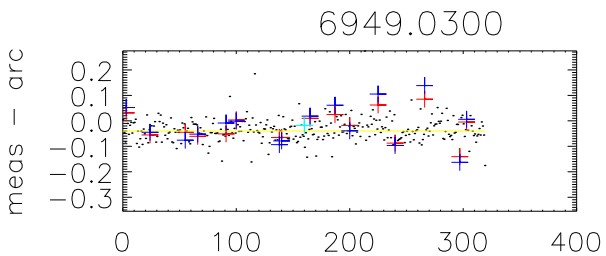

6300.3040
off: -0.11
sig: 0.008
6363.7760
off: -0.04
sig: 0.018
6553.6100
off: -0.07
sig: 0.028
6923.2100
off: -0.10
sig: 0.016
6949.0300
off: -0.02
sig: 0.013
7571.7500
off: -0.02
sig: 0.013
7794.1200
off: -0.13
sig: 0.008
7821.5100
off: -0.10
sig: 0.007
8399.1600
off: -0.05
sig: 0.005
8430.1700
off: -0.07
sig: 0.005
8885.8300
off: -0.02
sig: 0.005
8919.6100
off: -0.03
sig: 0.005

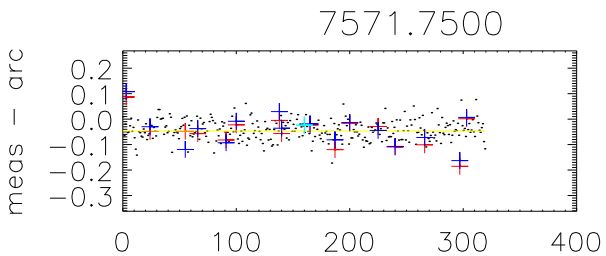

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

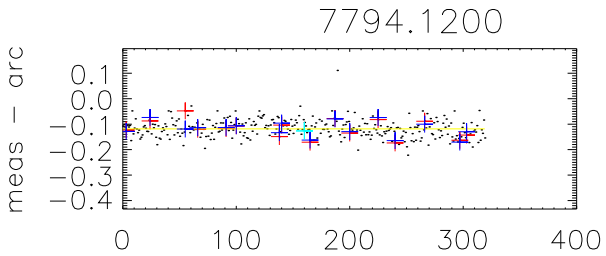

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

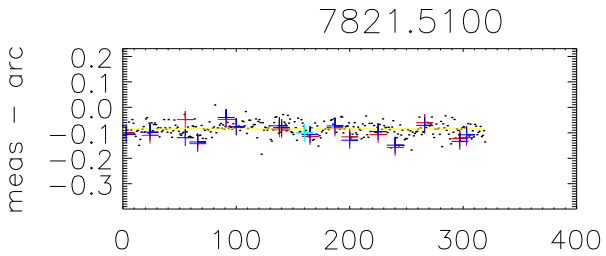

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

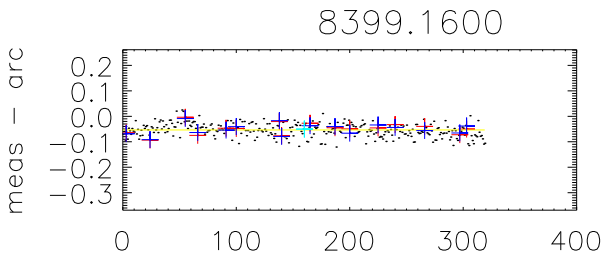

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

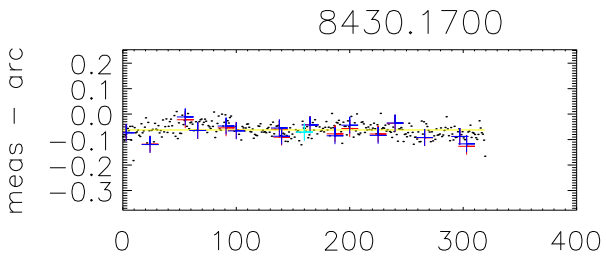

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

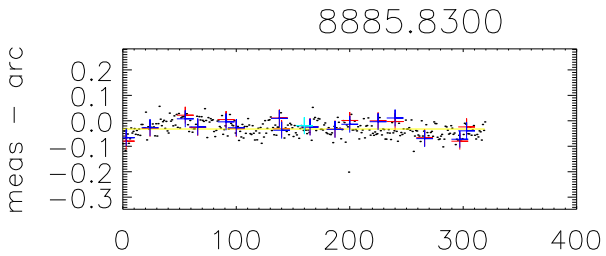

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

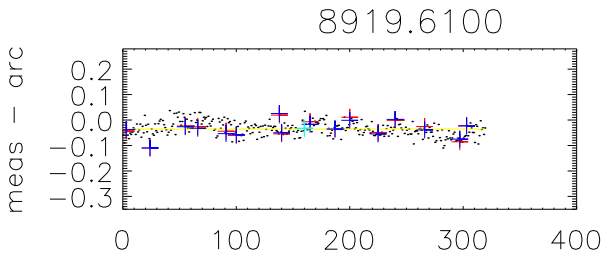

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

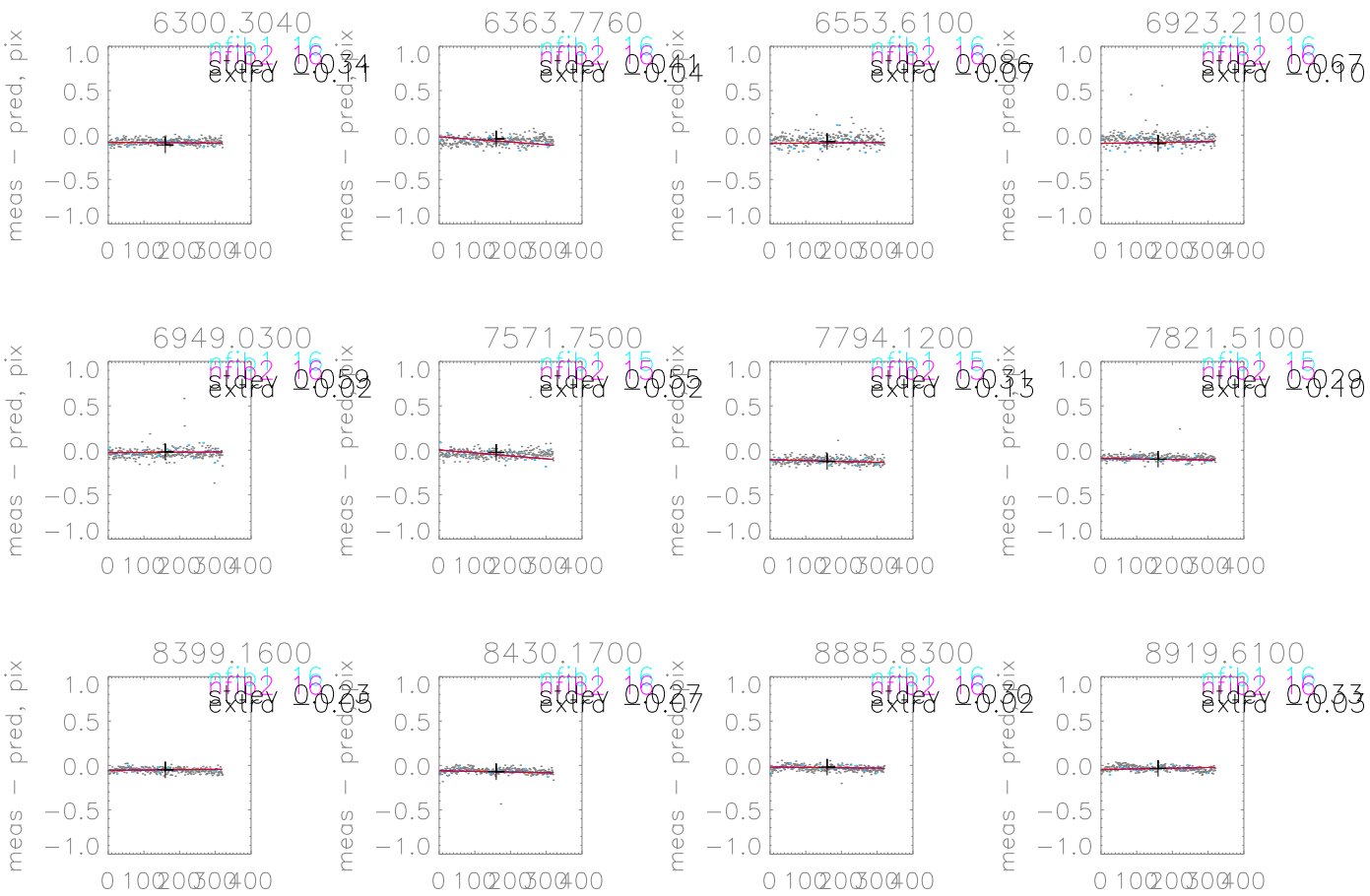

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

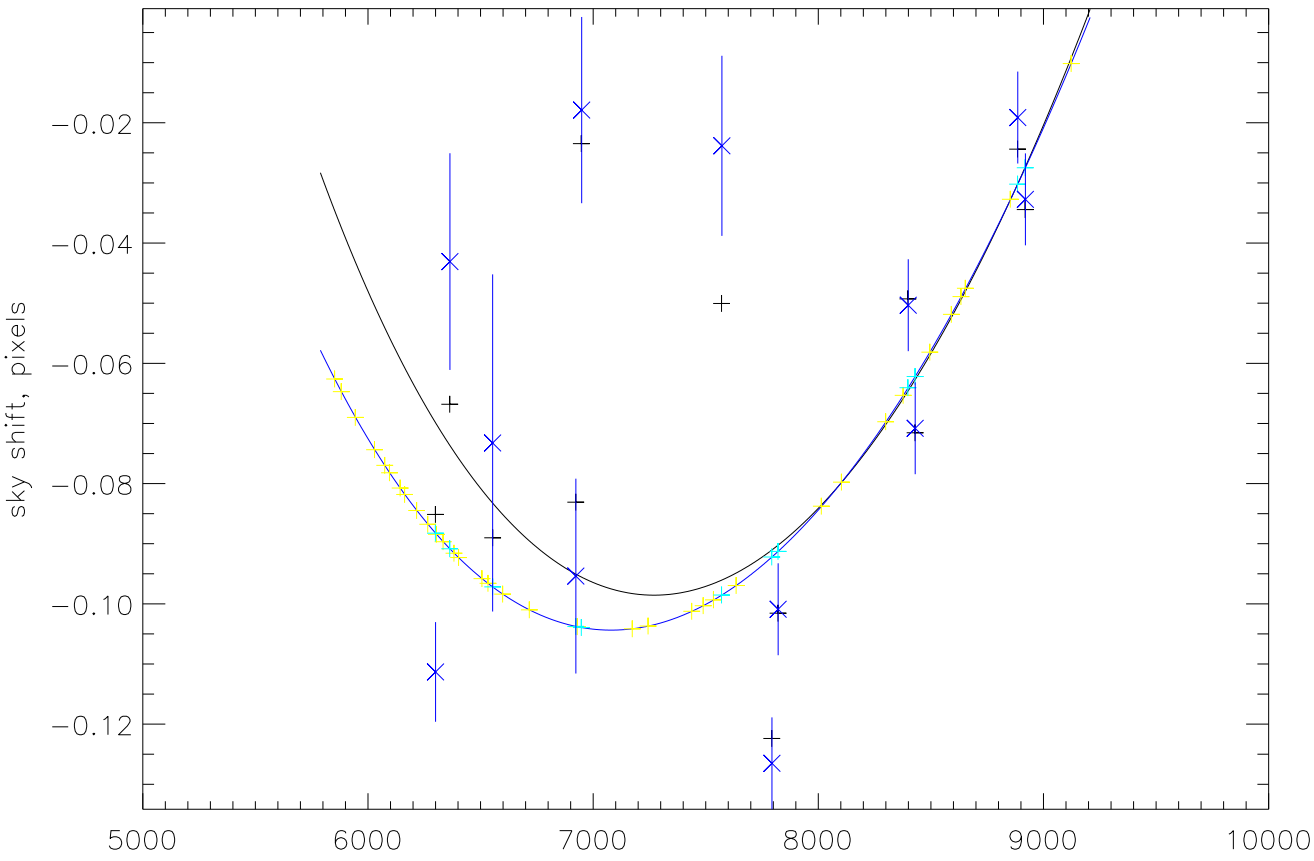

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

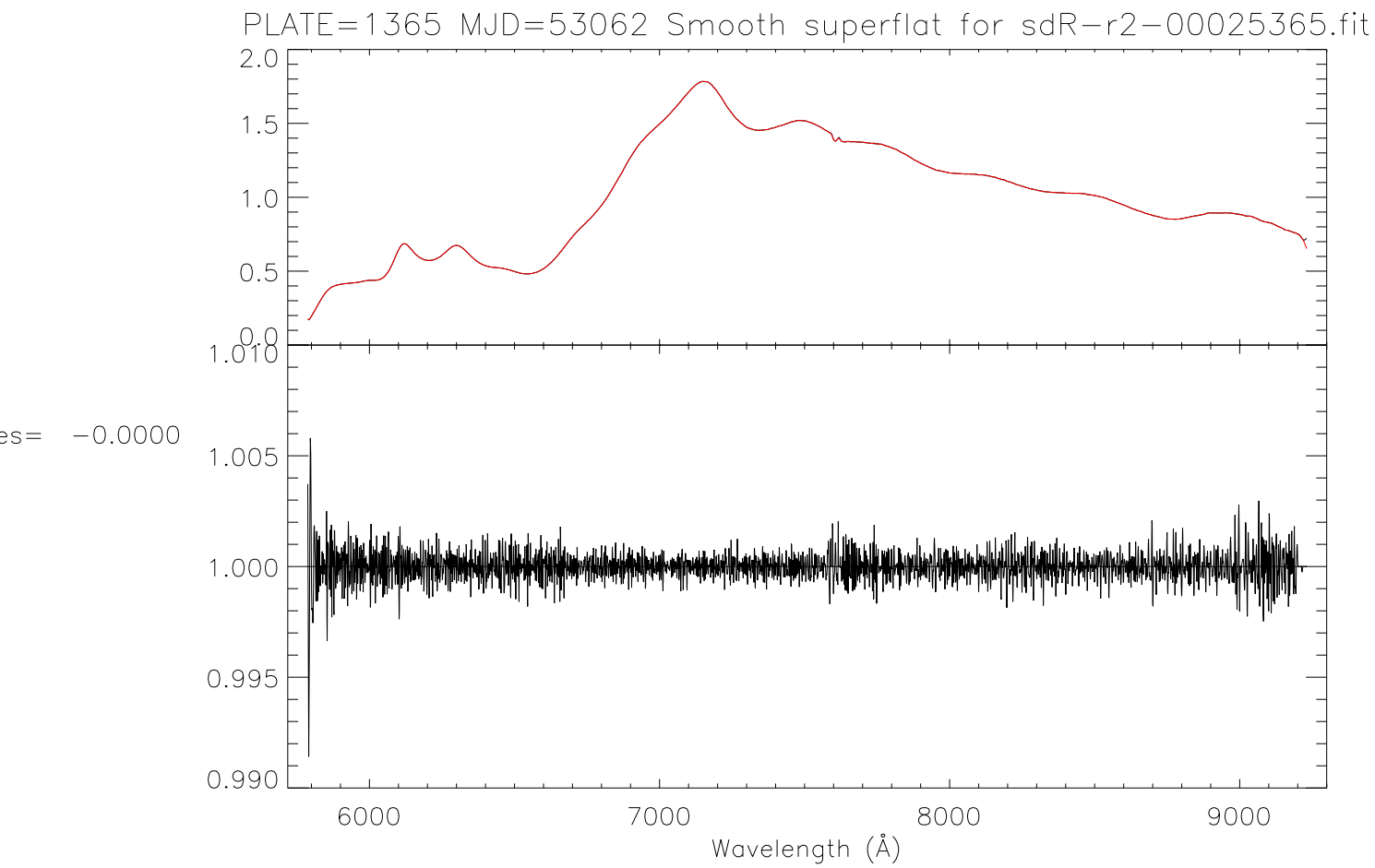

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

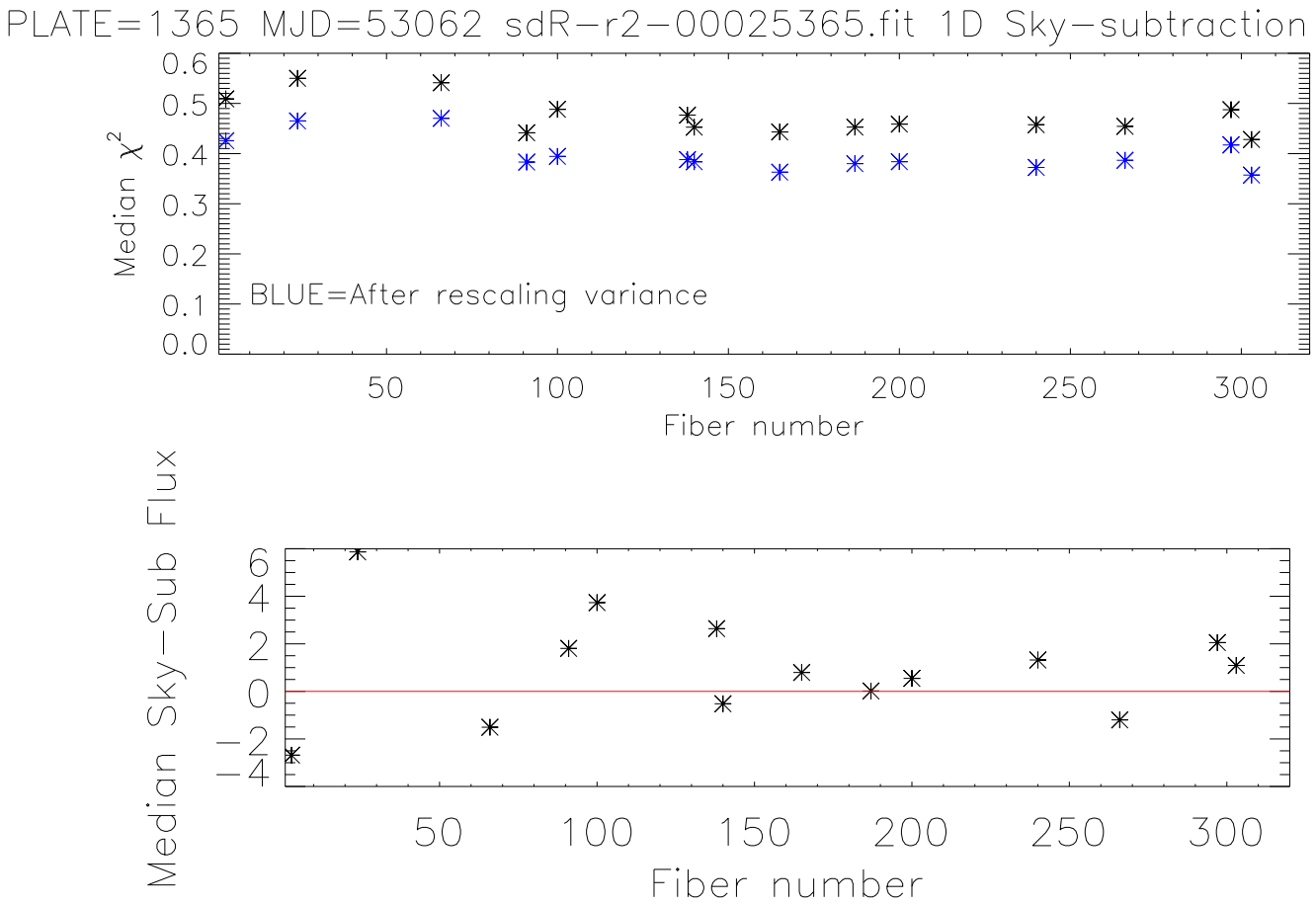

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

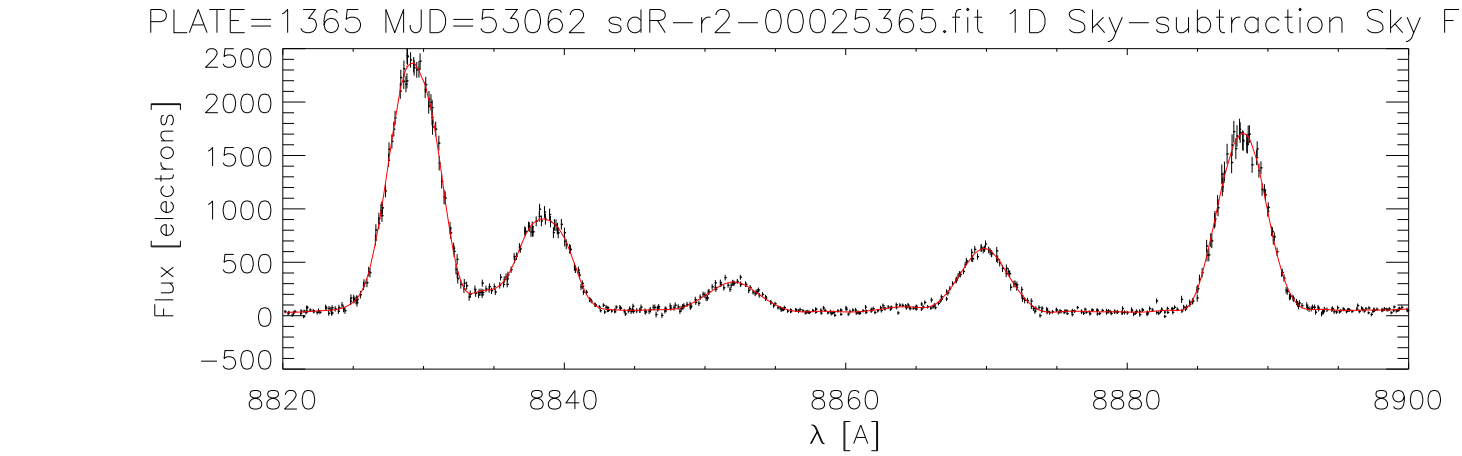

6300.3040
mfhd2 16
stdev 0.034
extra −0.011
6363.7760
mfhd2 16
stdev 0.041
extra −0.004
6553.6100
mfhd2 16
stdev 0.086
extra −0.007
6923.2100
mfhd2 16
stdev 0.067
extra −0.010
6949.0300
mfhd2 16
stdev 0.059
extra −0.002
7571.7500
mfhd2 15
stdev 0.055
extra −0.002
7794.1200
mfhd2 15
stdev 0.031
extra −0.013
7821.5100
mfhd2 15
stdev 0.029
extra −0.010
8399.1600
mfhd2 16
stdev 0.027
extra −0.005
8430.1700
mfhd2 16
stdev 0.027
extra −0.007
8885.8300
mfhd2 16
stdev 0.030
extra −0.002
8919.6100
mfhd2 16
stdev 0.033
extra −0.003
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

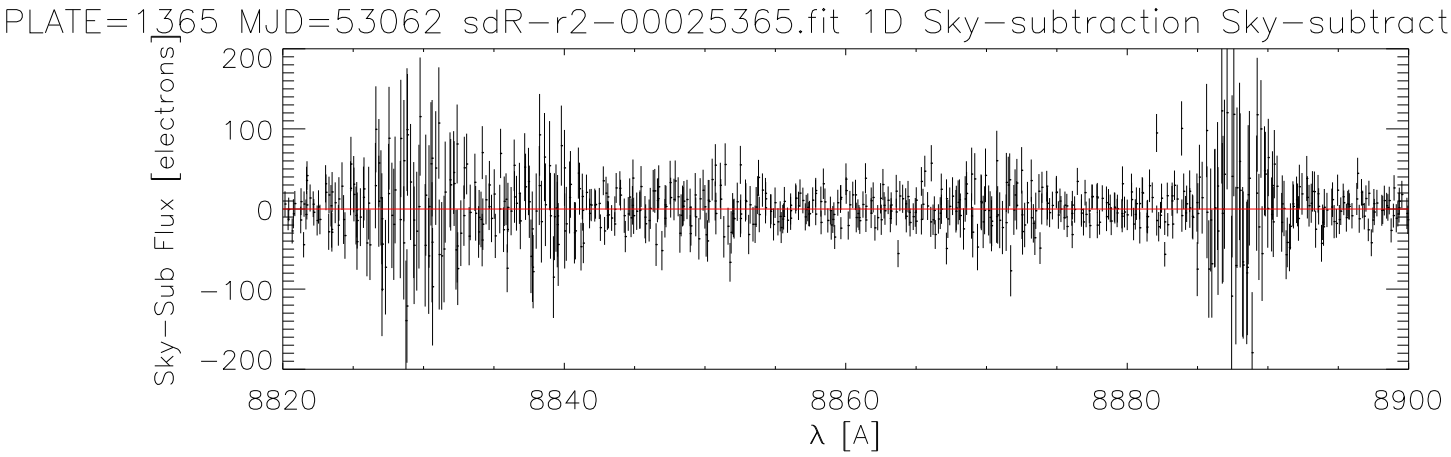

sky shift, pixels
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
5000
6000
7000
8000
9000
10000

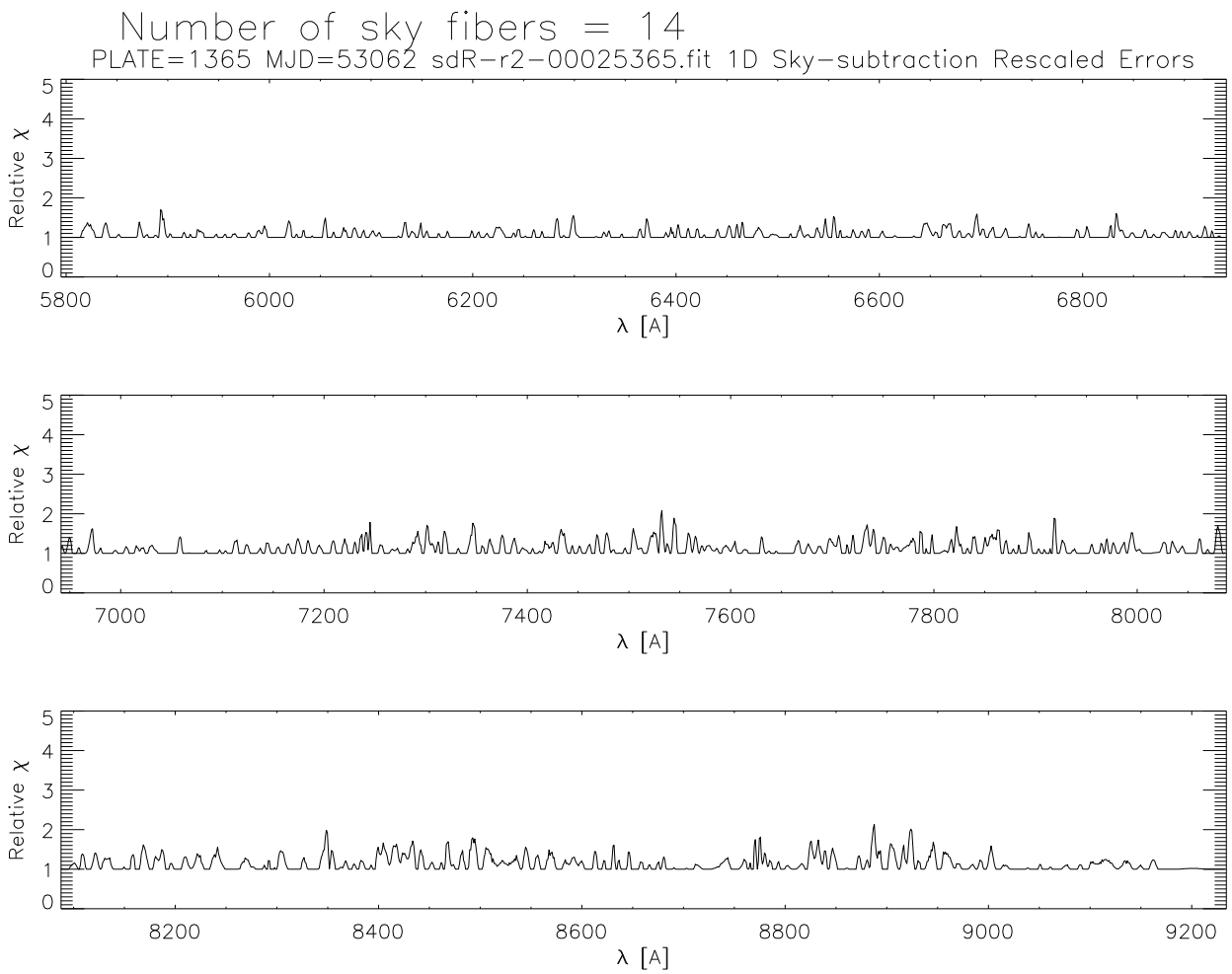

PLATE=1365 MJD=53062 Smooth superflat for sdR-r2-00025365.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

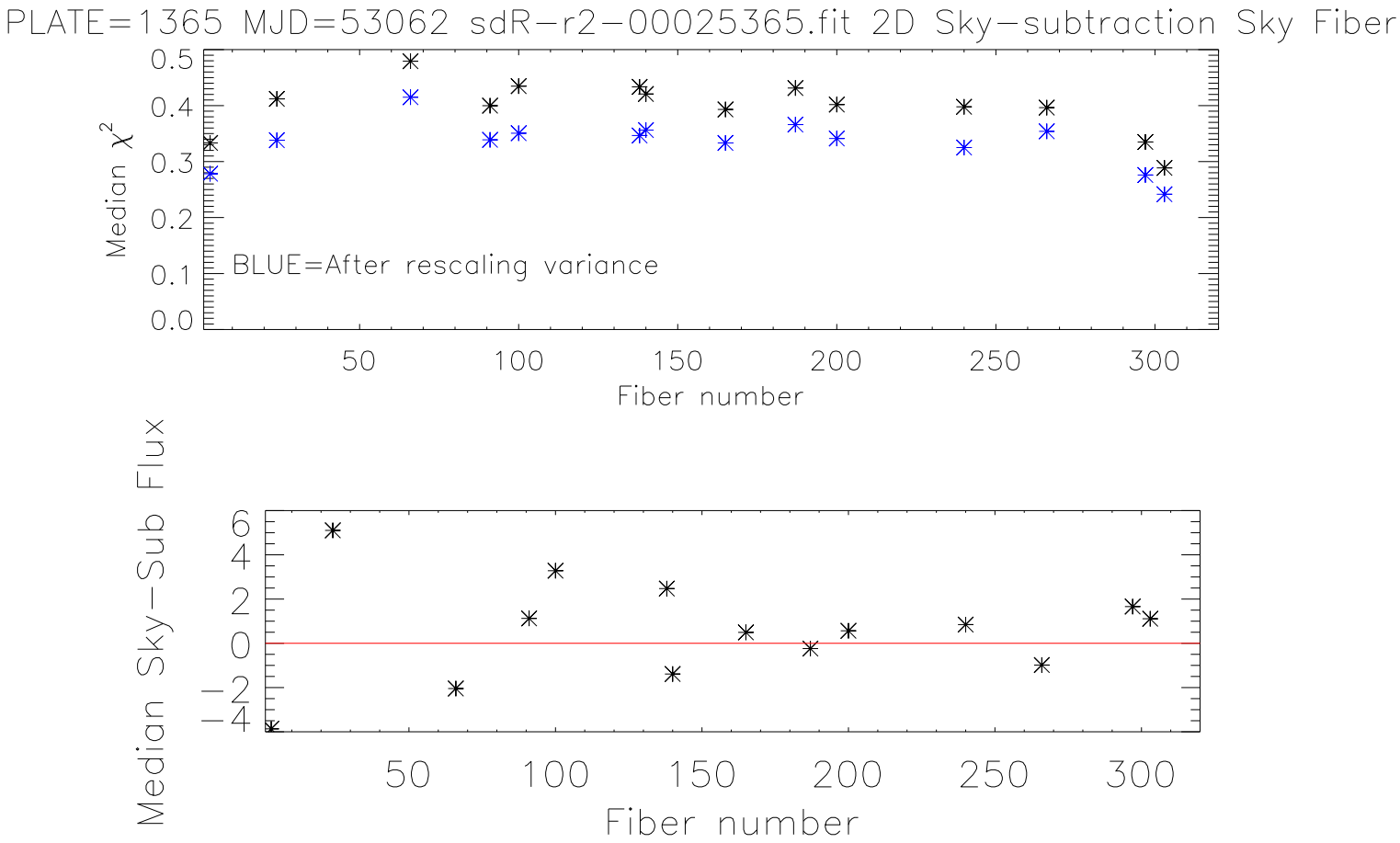
es= −0.0000

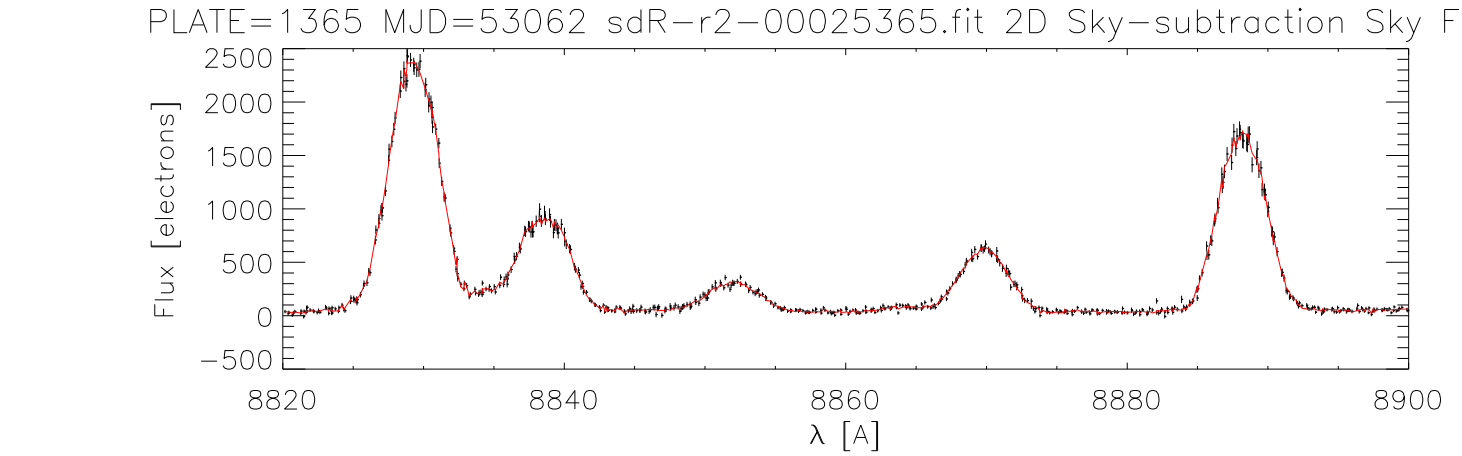

PLATE=1365 MJD=53062 sdR-r2-00025365.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

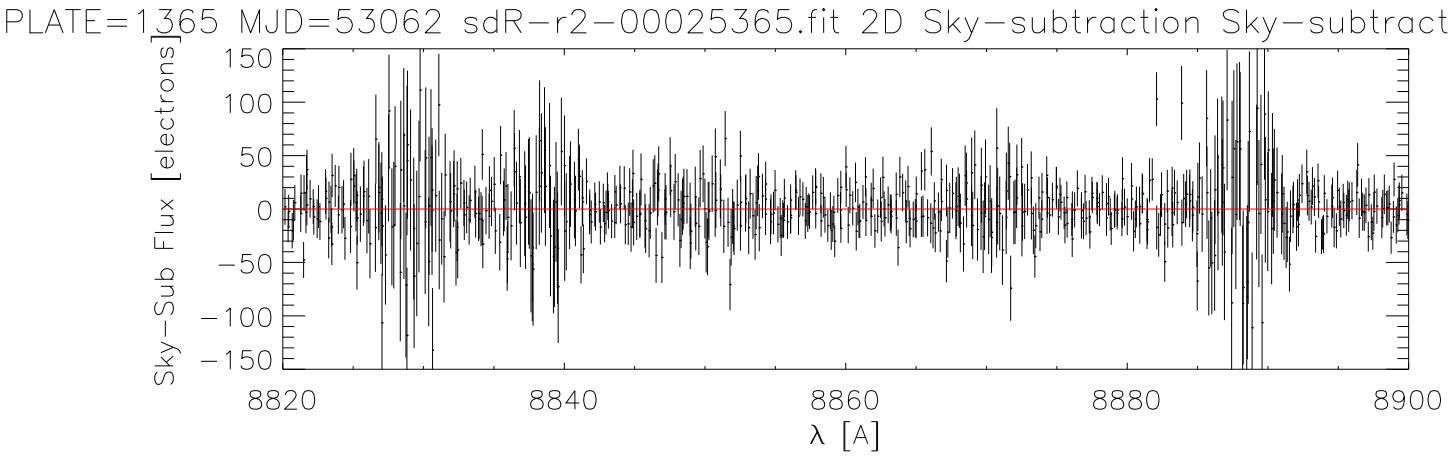

PLATE=1365 MJD=53062 sdR-r2-00025365.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

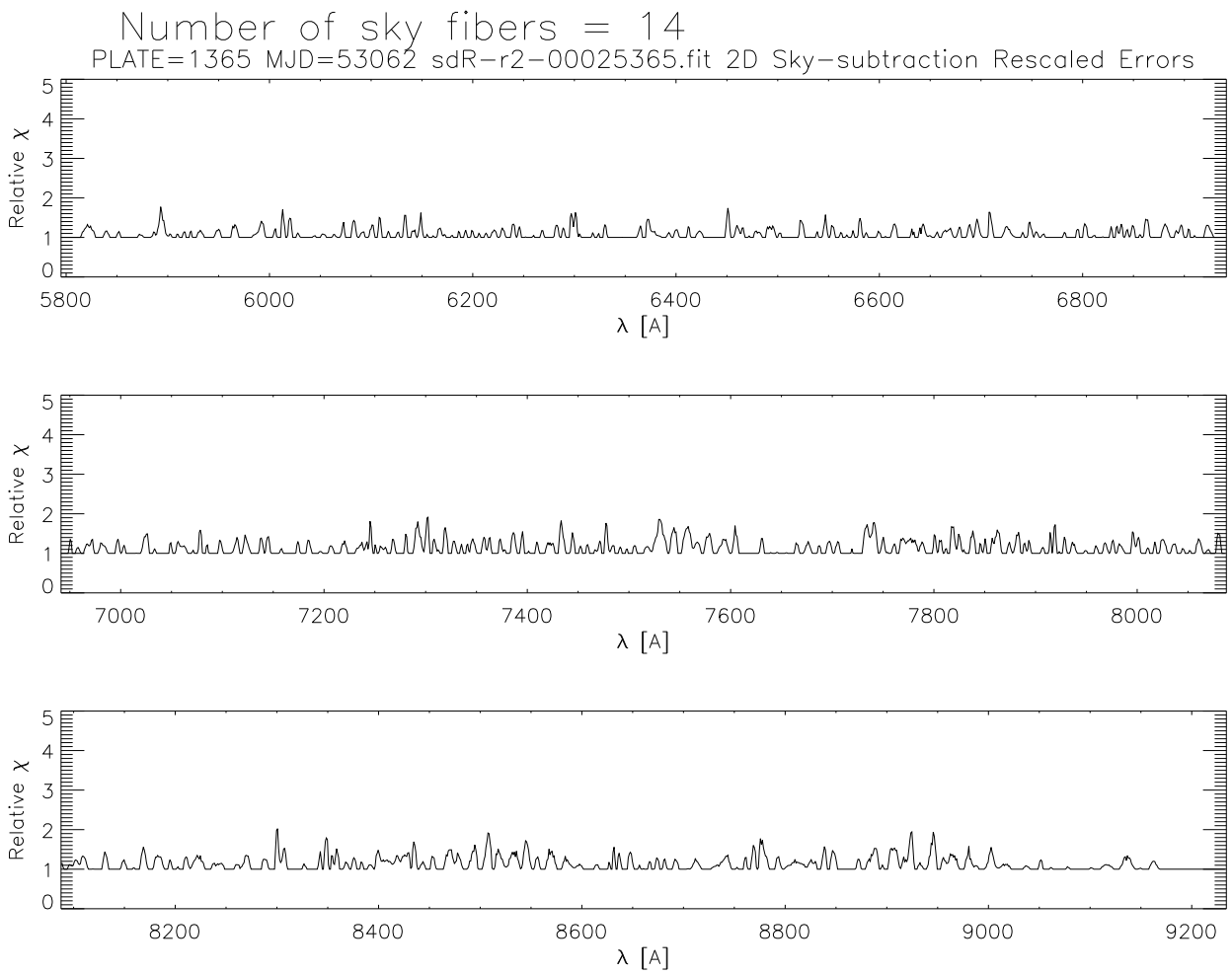

PLATE=1365 MJD=53062 sdR-r2-00025365.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

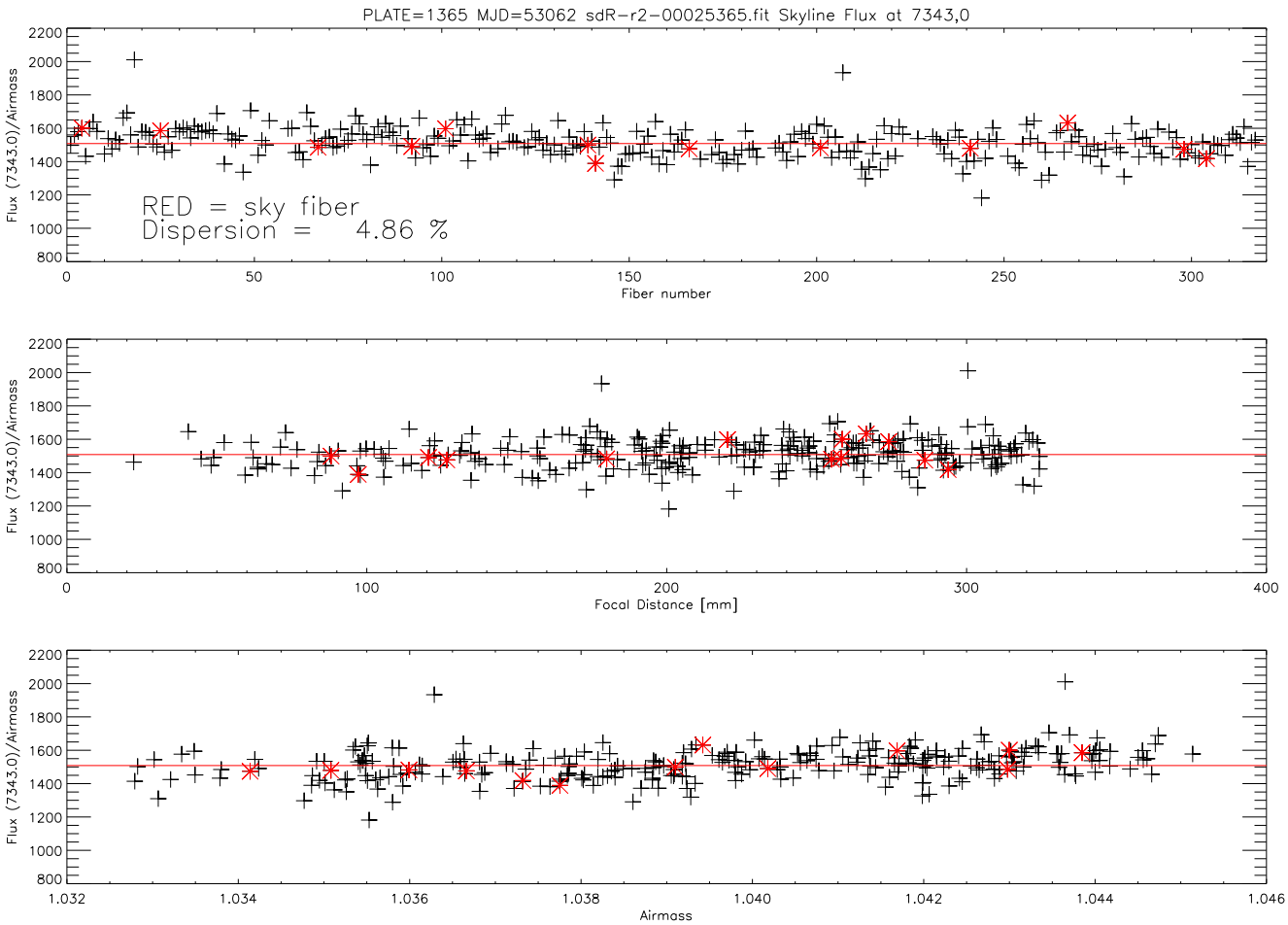

Number of sky fibers = 14
PLATE=1365 MJD=53062 sdR-r2-00025365.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

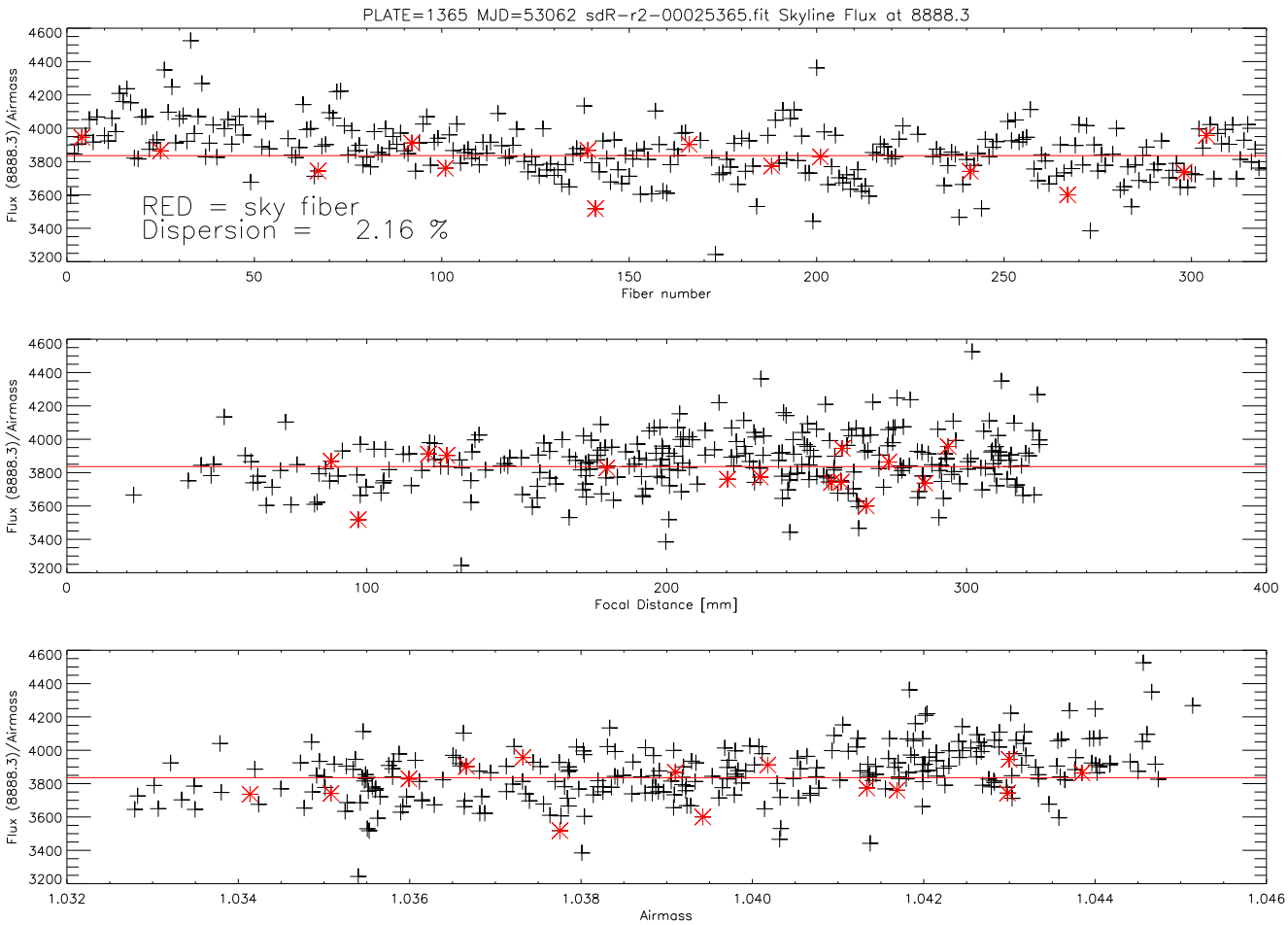

PLATE=1365 MJD=53062 sdR-r2-00025365.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

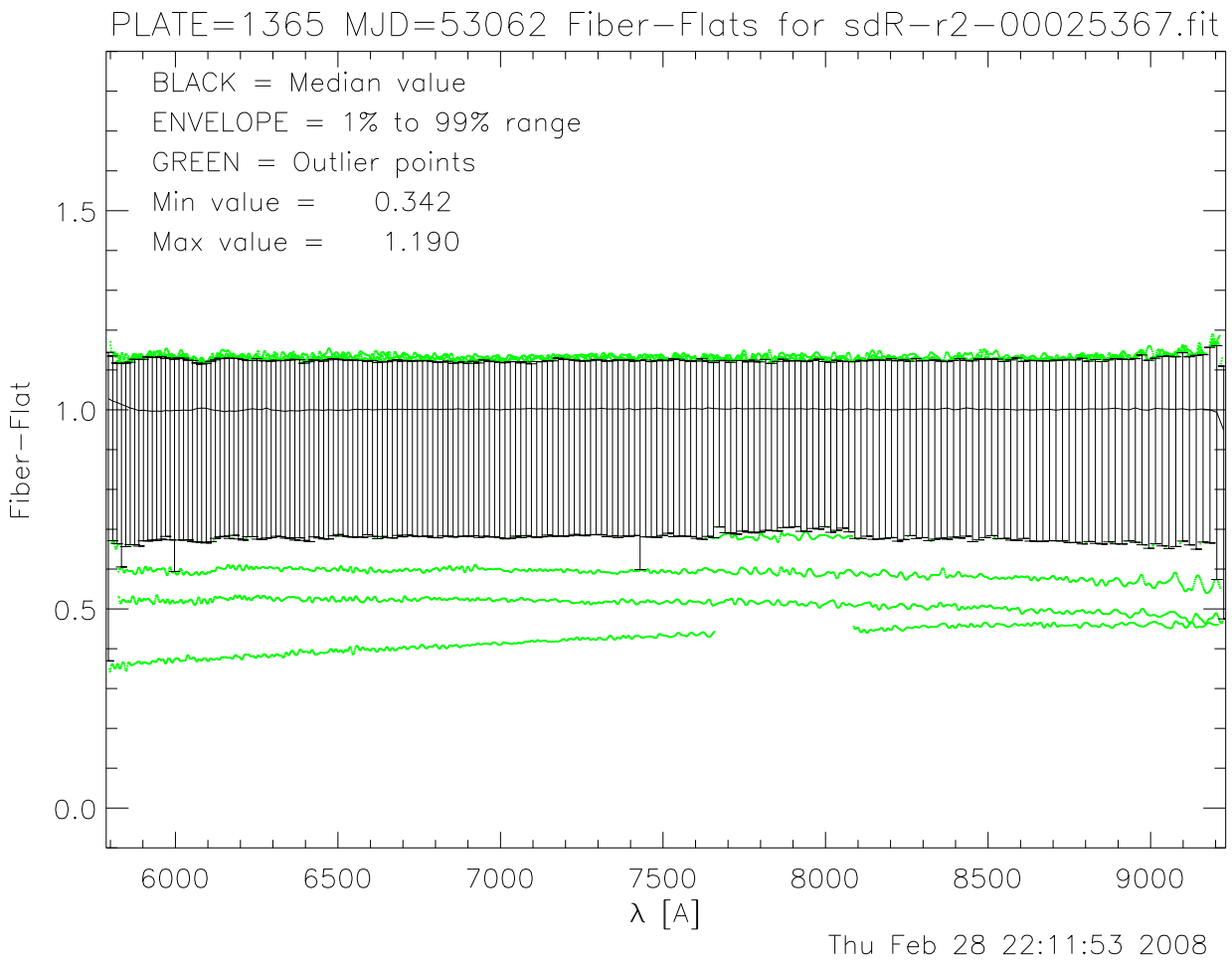

PLATE=1365 MJD=53062 sdR-r2-00025365.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

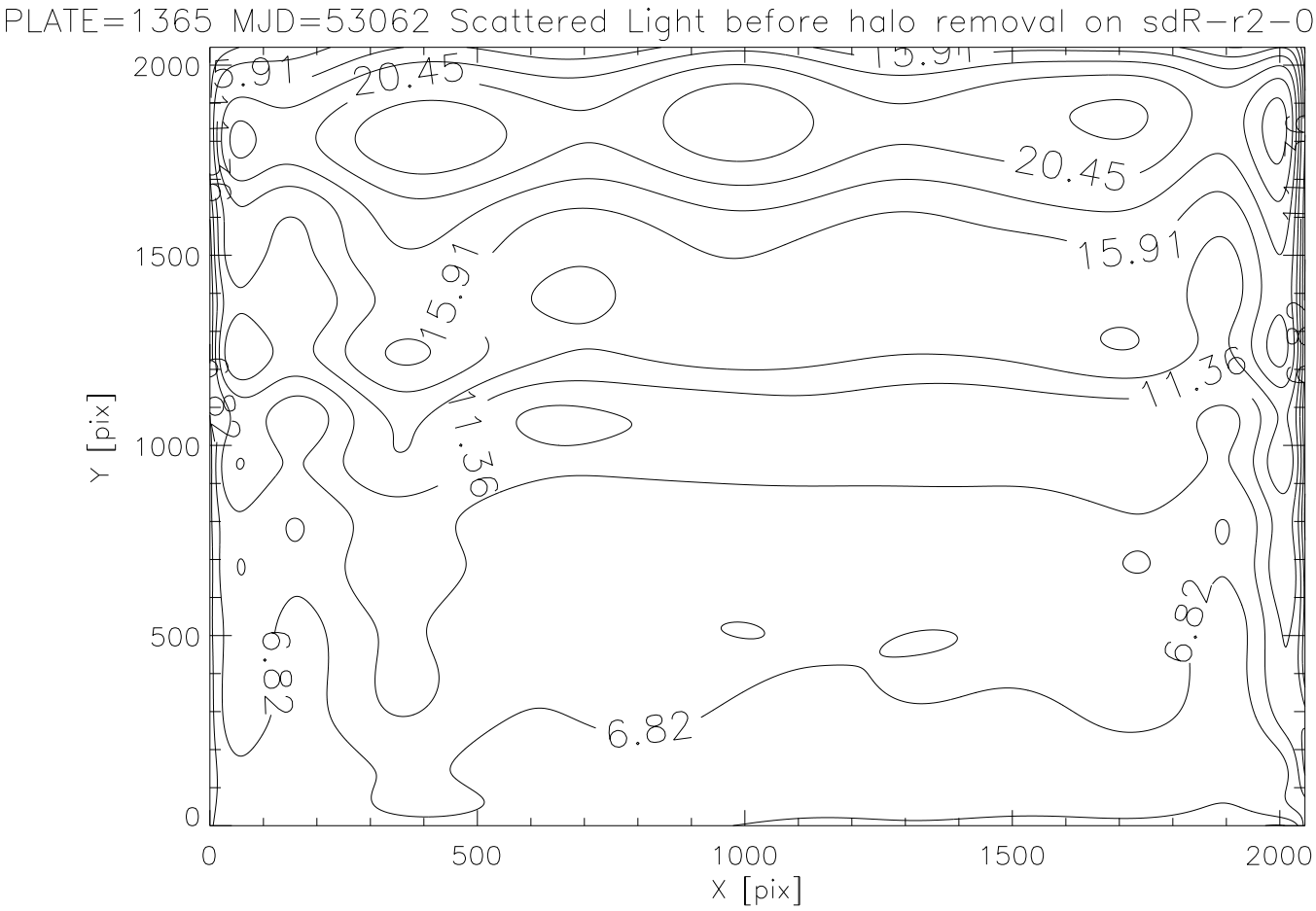

PLATE=1365 MJD=53062 sdR-r2-00025365.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

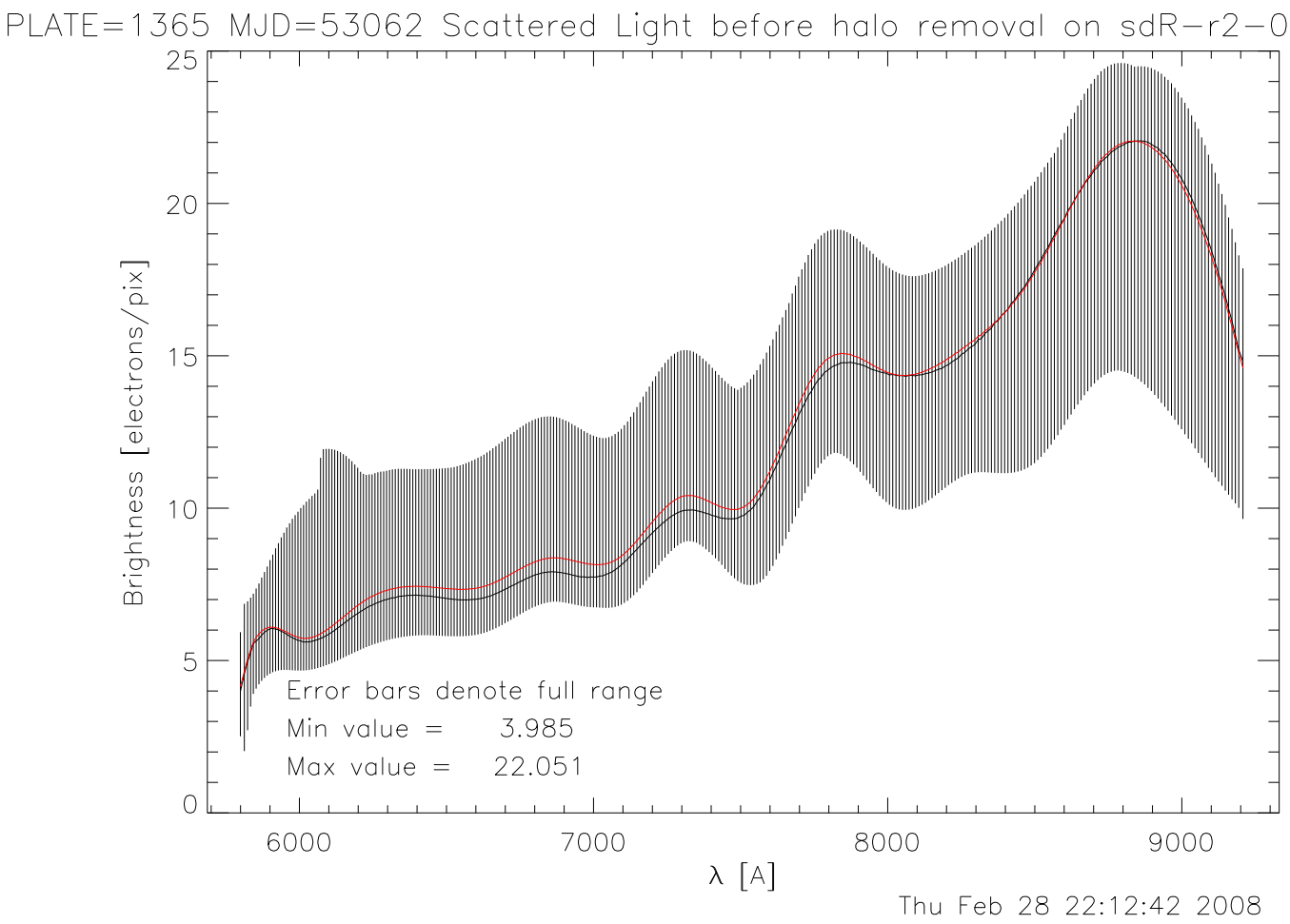

Number of sky fibers = 14
PLATE=1365 MJD=53062 sdR-r2-00025365.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

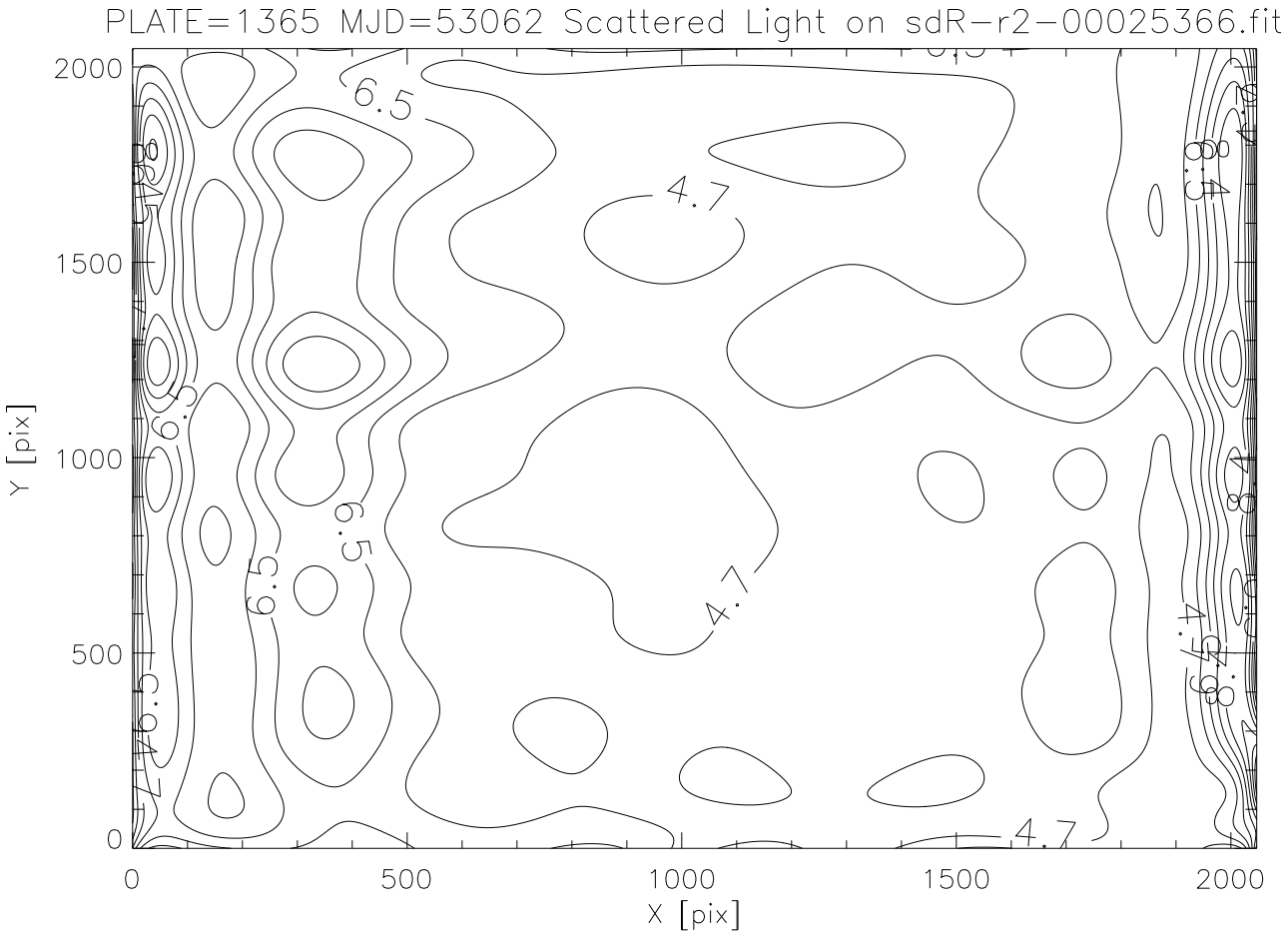

PLATE=1365 MJD=53062 sdR-r2-00025365.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.86 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

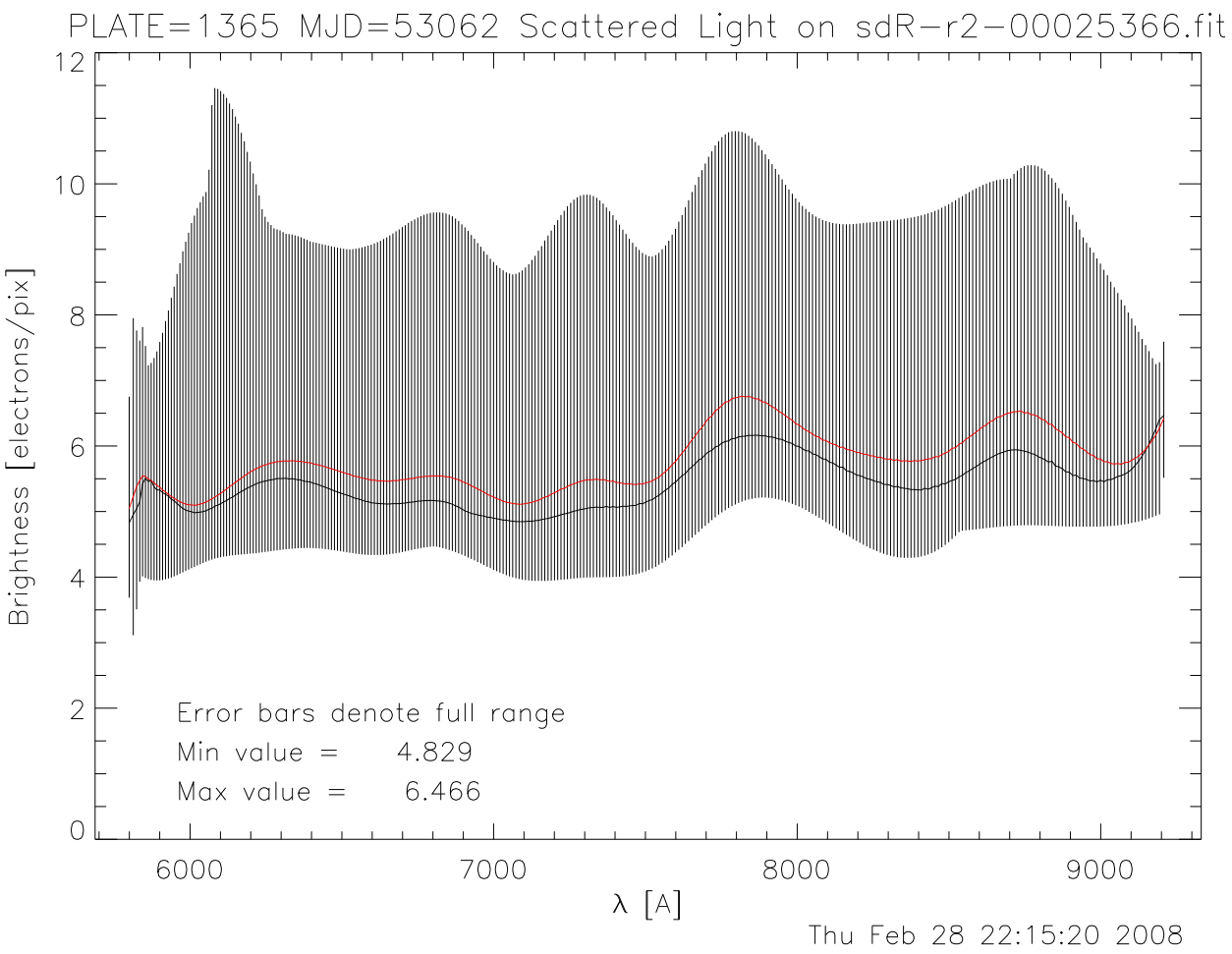

PLATE=1365 MJD=53062 sdR-r2-00025365.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.16 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

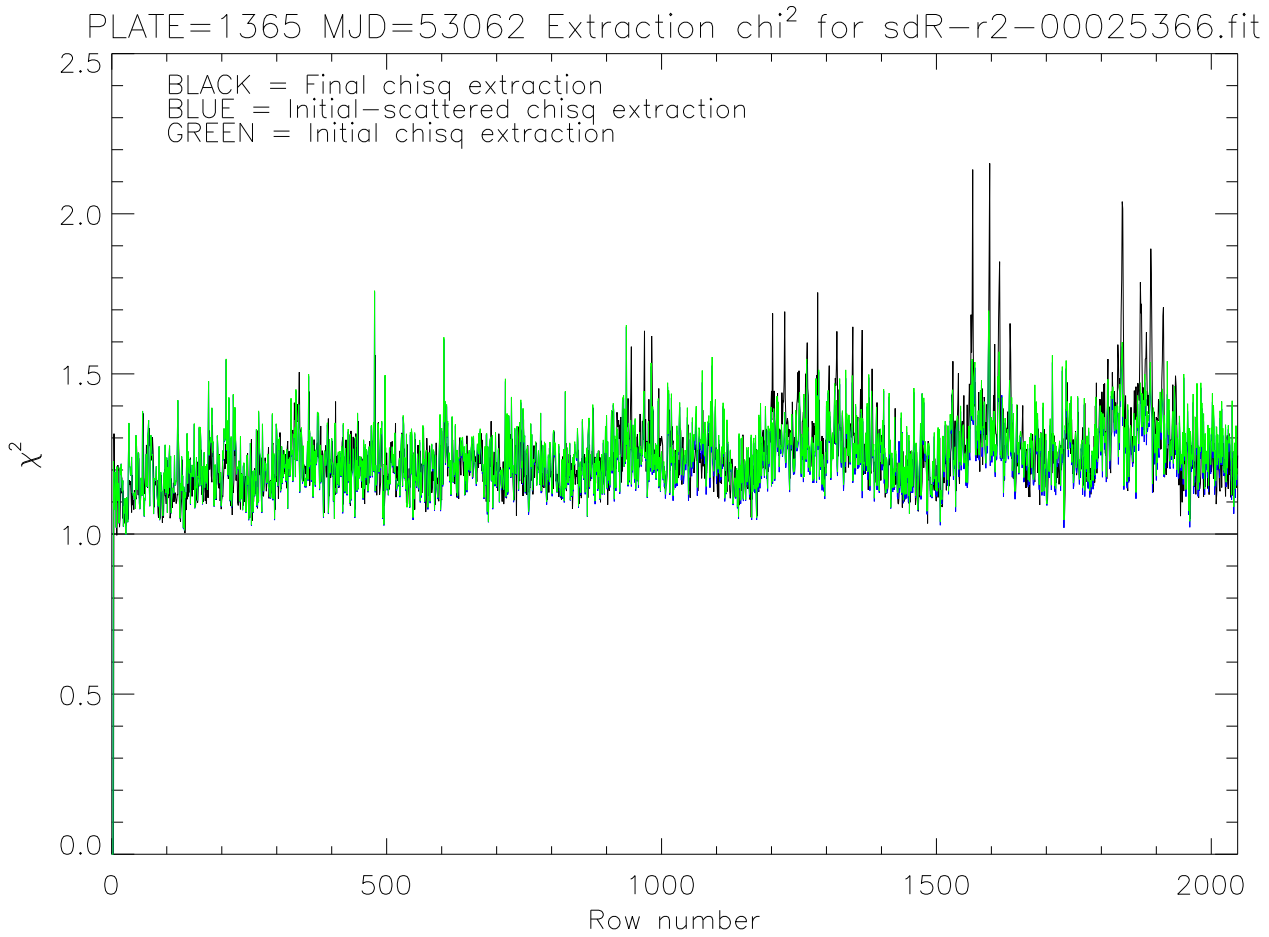

PLATE=1365 MJD=53062 Fiber−Flats for sdR−r2−00025367.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.342
Max value = 1.190
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Thu Feb 28 22:11:53 2008

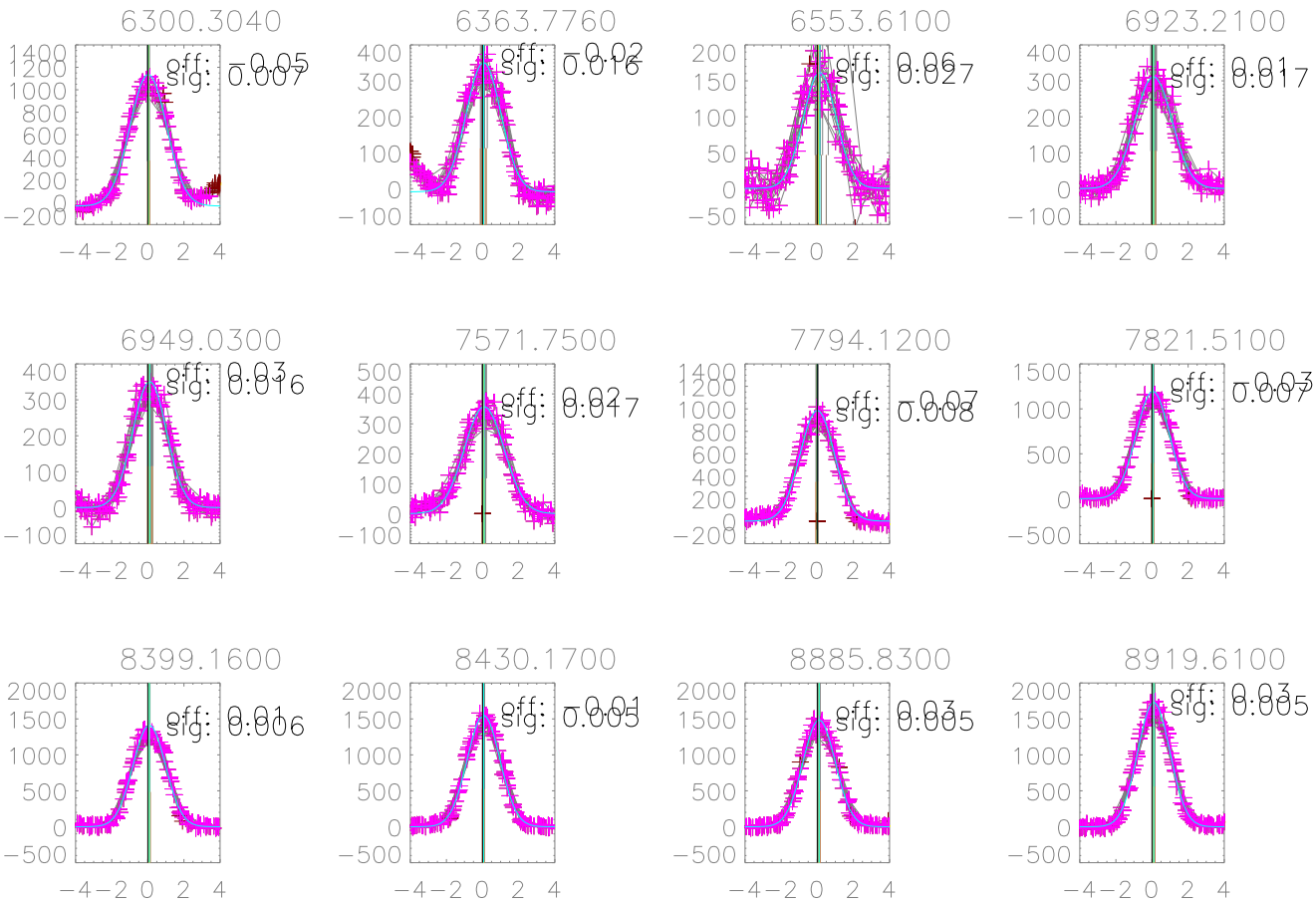

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r2-00025366.fi
20.45
15.91
11.36
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

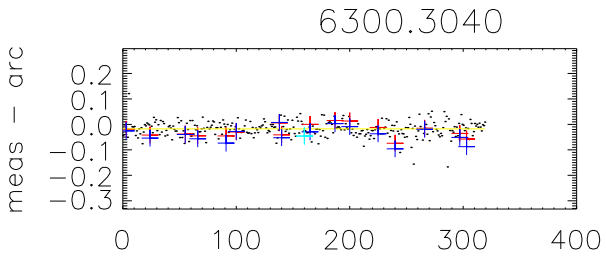

PLATE=1365 MJD=53062 Scattered Light before halo removal on sdR-r2-00025366.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.985
Max value = 22.051
Thu Feb 28 22:12:42 2008

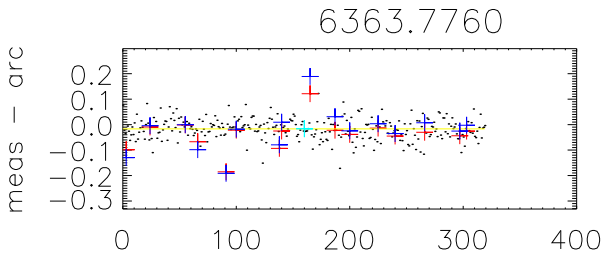

PLATE=1365 MJD=53062 Scattered Light on sdR-r2-00025366.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
4.7

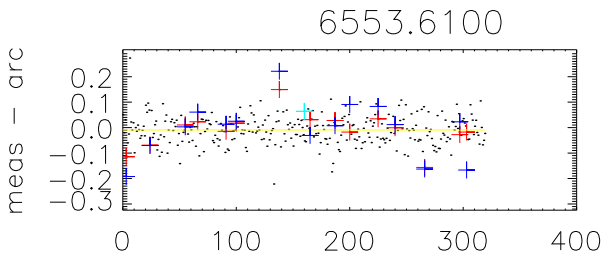

PLATE=1365 MJD=53062 Scattered Light on sdR-r2-00025366.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.829
Max value = 6.466
Thu Feb 28 22:15:20 2008

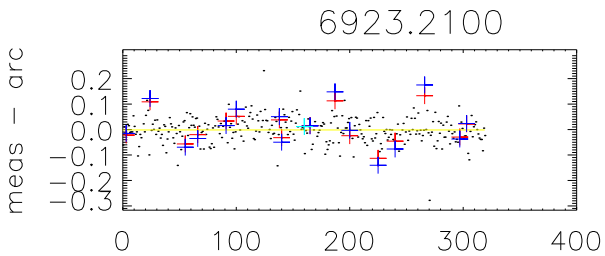

PLATE=1365 MJD=53062 Extraction chi^2 for sdR−r2−00025366.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

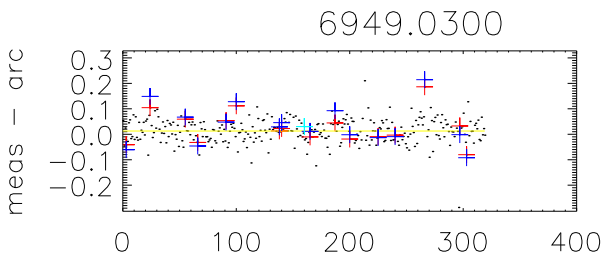

6300.3040
off: −0.05
sig: 0.007
6363.7760
off: −0.02
sig: 0.016
6553.6100
off: 0.06
sig: 0.027
6923.2100
off: 0.01
sig: 0.017
6949.0300
off: 0.03
sig: 0.016
7571.7500
off: 0.02
sig: 0.017
7794.1200
off: −0.07
sig: 0.008
7821.5100
off: −0.03
sig: 0.007
8399.1600
off: 0.01
sig: 0.006
8430.1700
off: −0.01
sig: 0.005
8885.8300
off: 0.03
sig: 0.005
8919.6100
off: 0.03
sig: 0.005

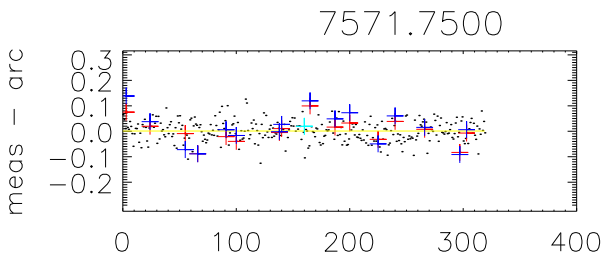

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

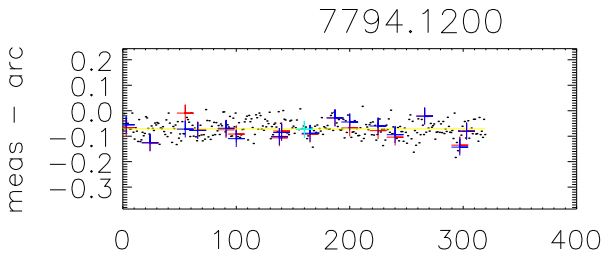

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

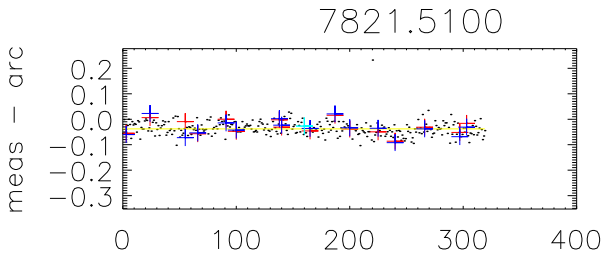

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

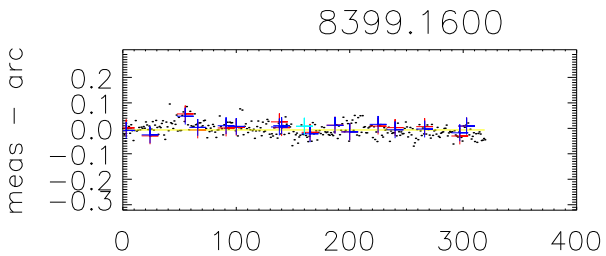

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

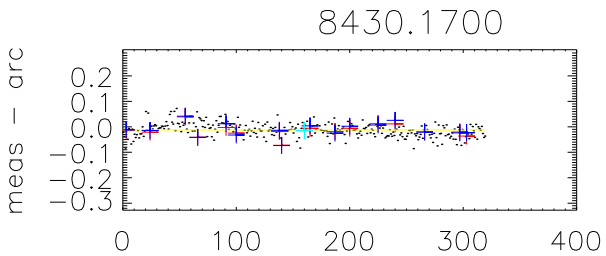

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

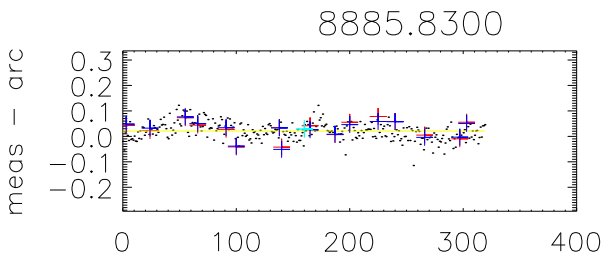

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

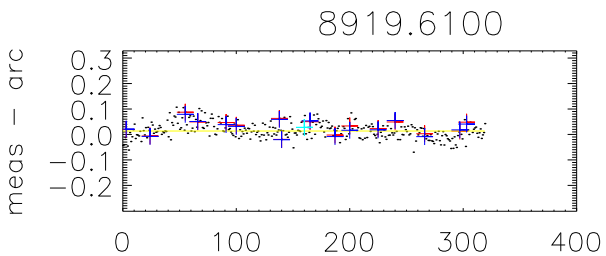

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

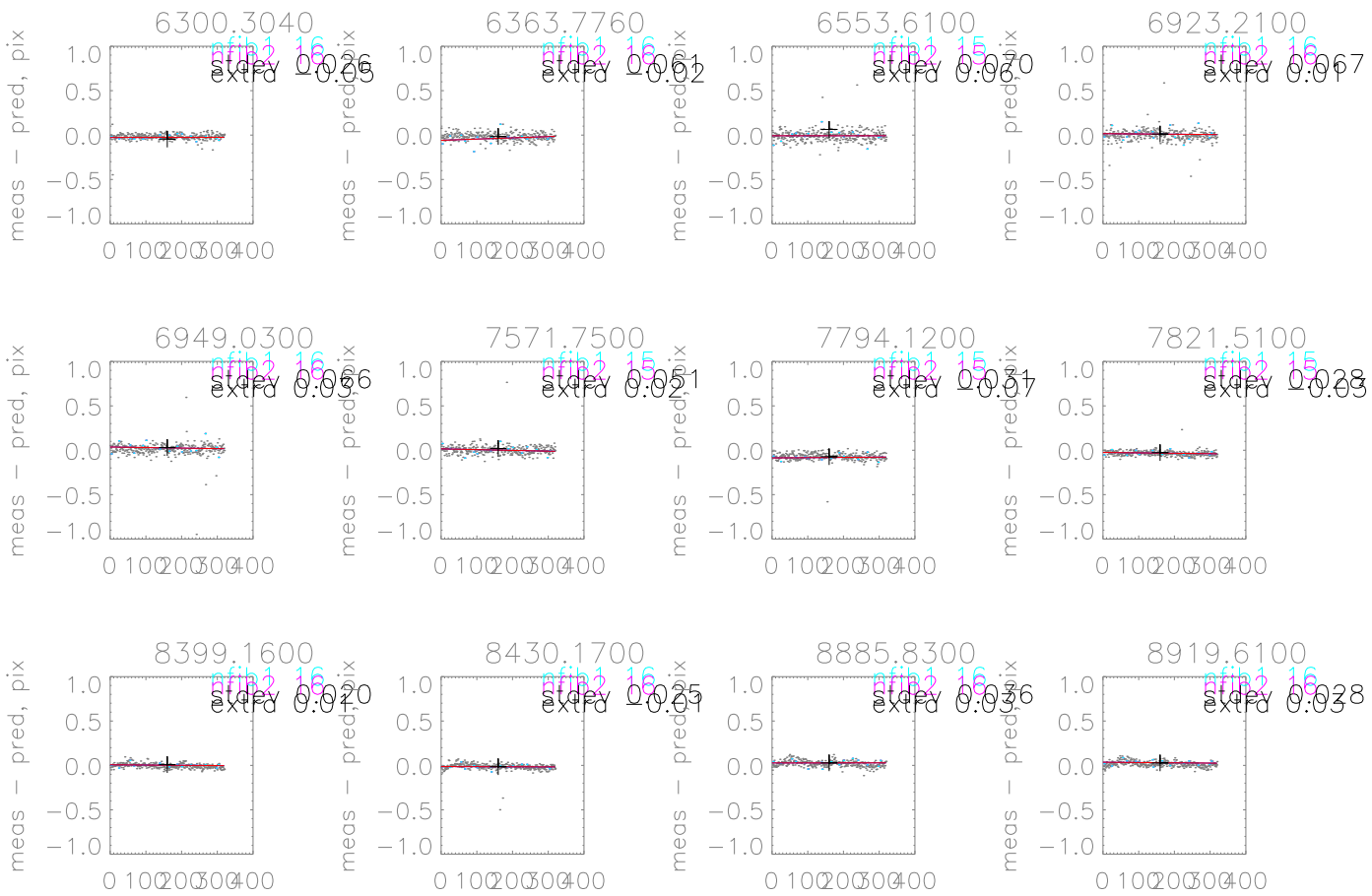

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

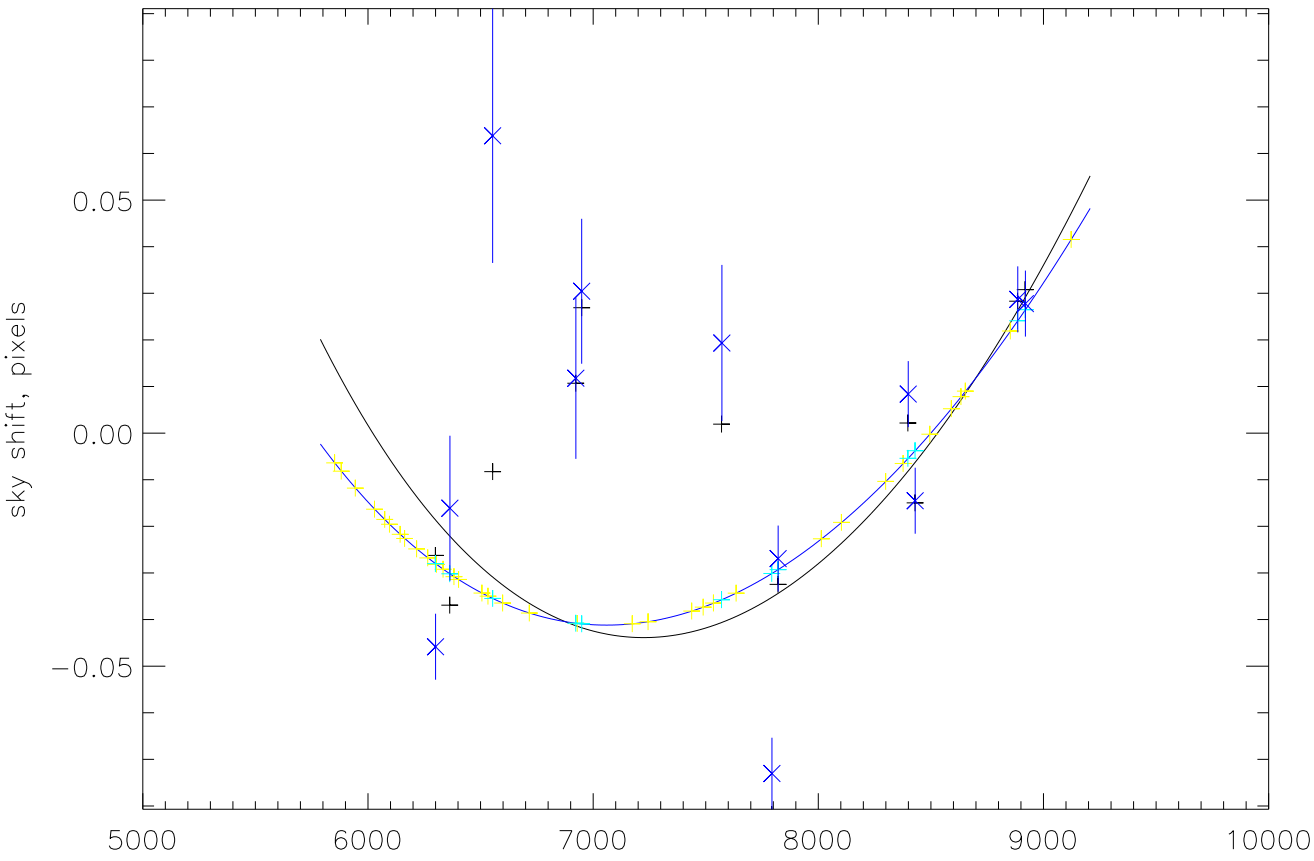

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

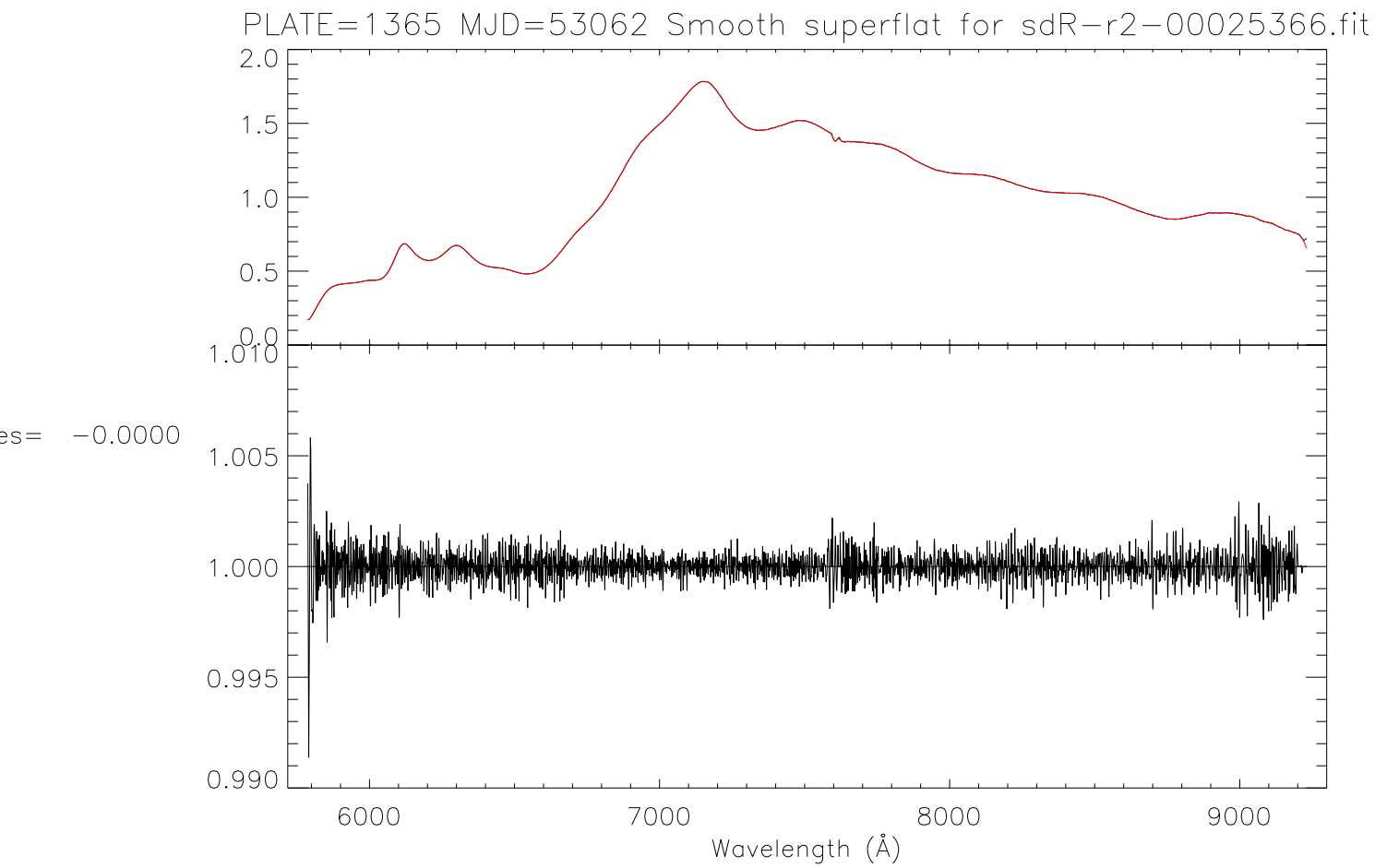

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

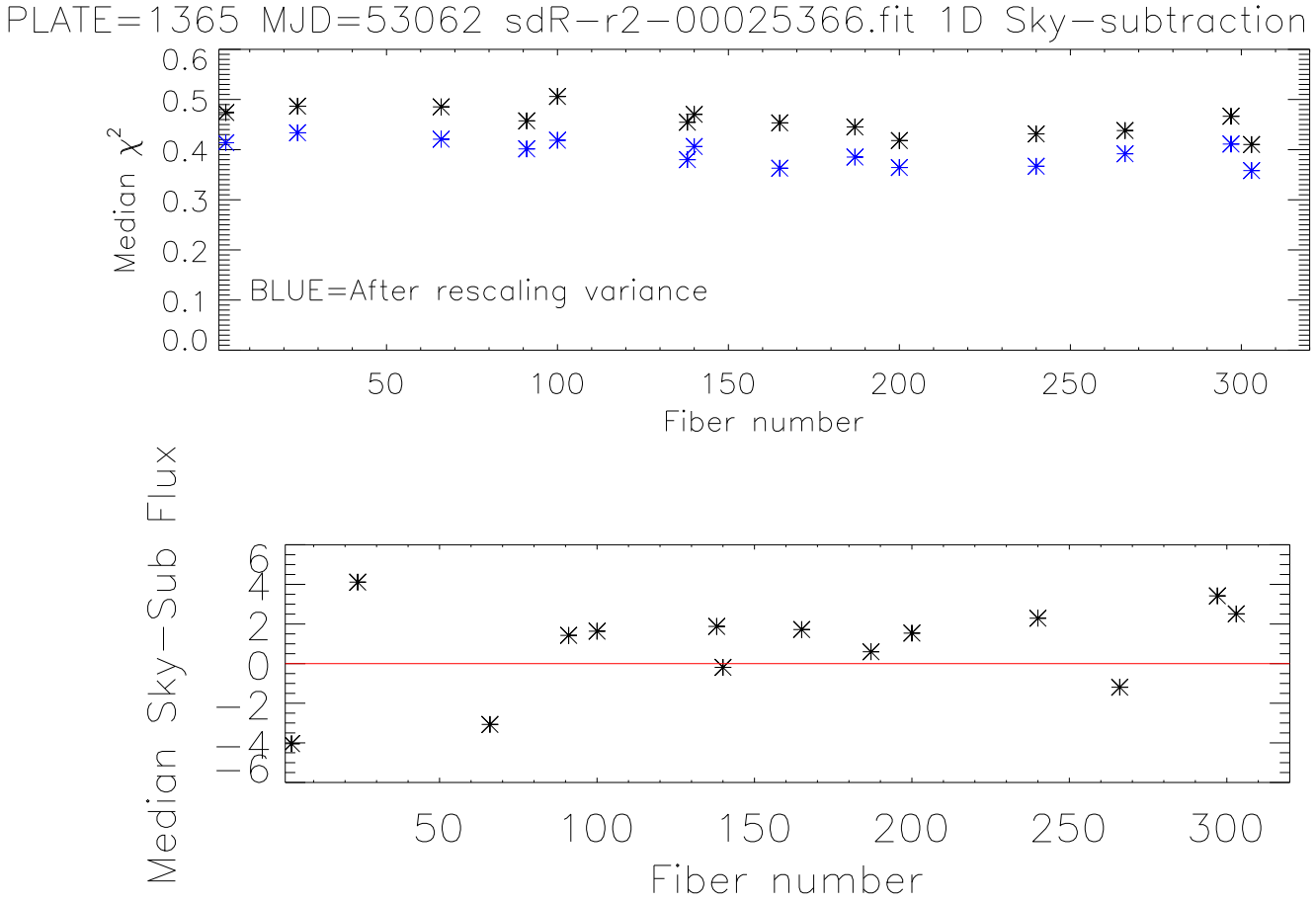

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

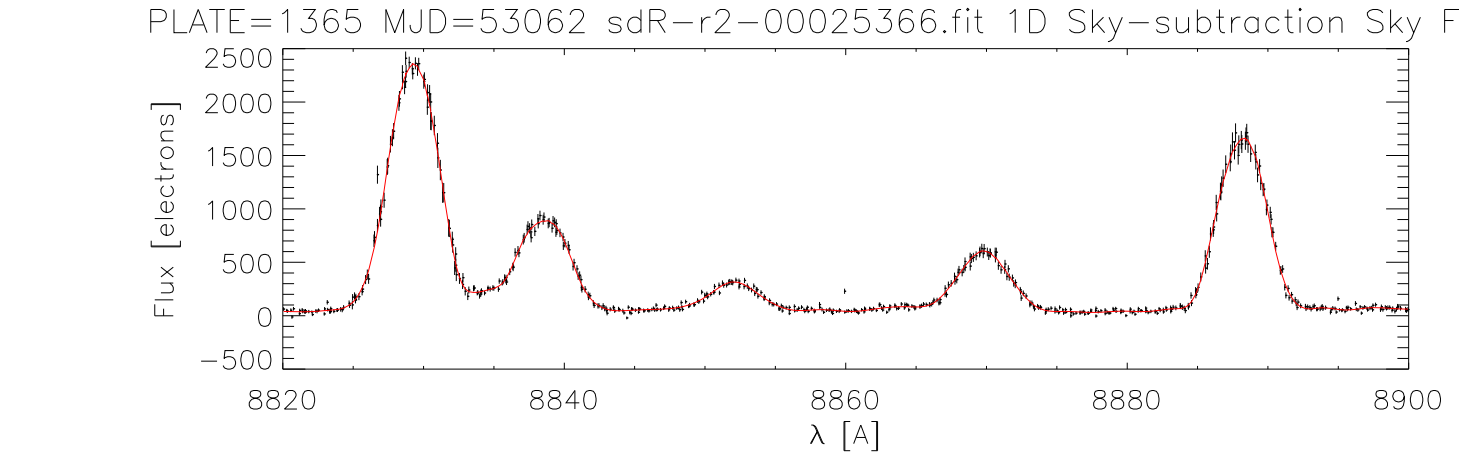

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

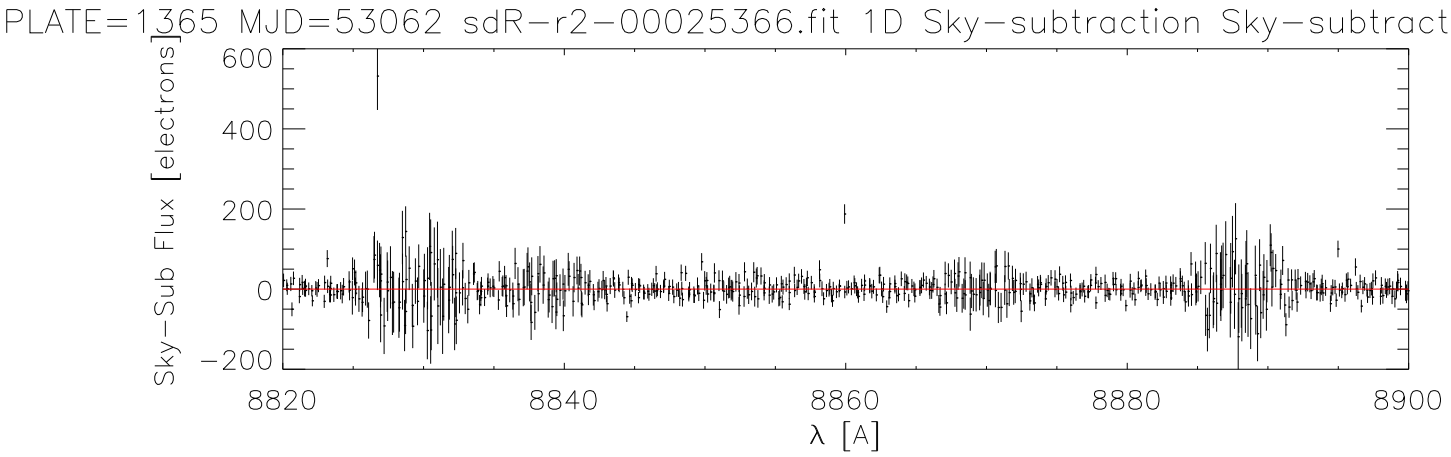

6300.3040
stdev 0.026
extra −0.05
6363.7760
stdev 0.061
extra −0.02
6553.6100
stdev 0.070
extra 0.06
6923.2100
stdev 0.067
extra 0.01
6949.0300
stdev 0.066
extra 0.05
7571.7500
stdev 0.051
extra 0.02
7794.1200
stdev 0.071
extra −0.07
7821.5100
stdev 0.028
extra −0.03
8399.1600
stdev 0.020
extra 0.01
8430.1700
stdev 0.025
extra −0.01
8885.8300
stdev 0.036
extra 0.03
8919.6100
stdev 0.028
extra 0.03
meas − pred, pix
mfb1 16
mfb2 16
mfb1 15
mfb2 15

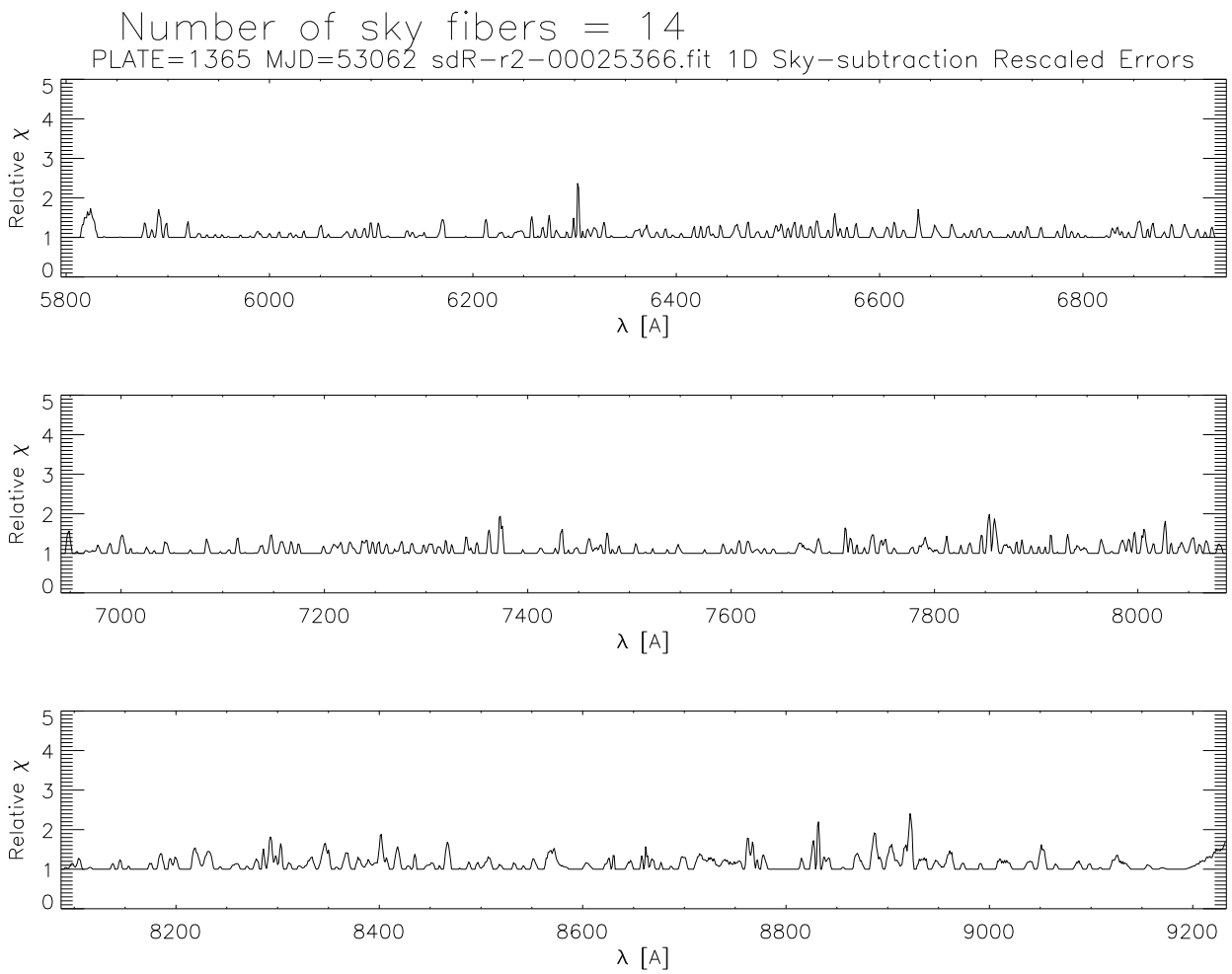

sky shift, pixels
0.05
0.00
−0.05
5000
6000
7000
8000
9000
10000

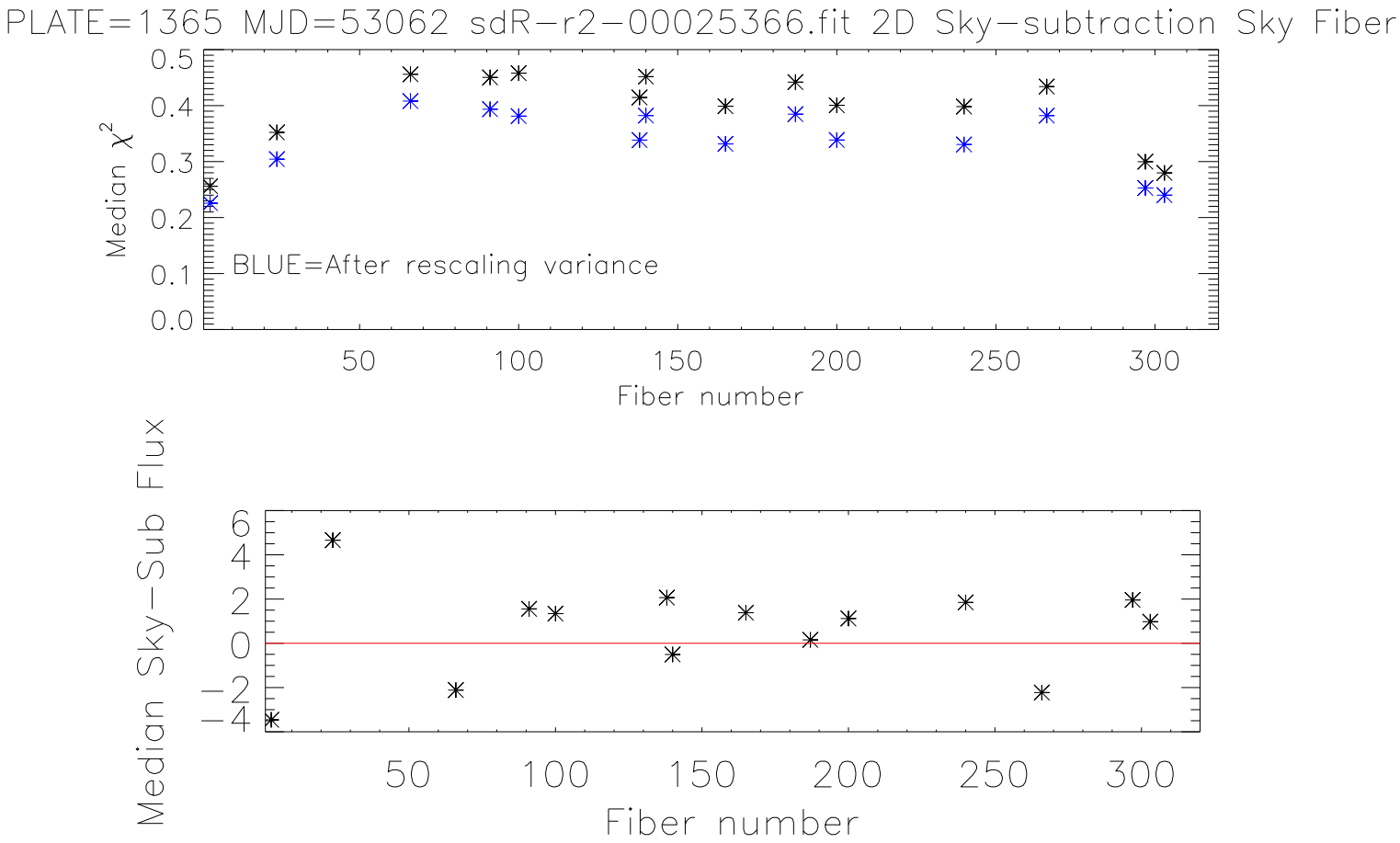

PLATE=1365 MJD=53062 Smooth superflat for sdR-r2-00025366.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

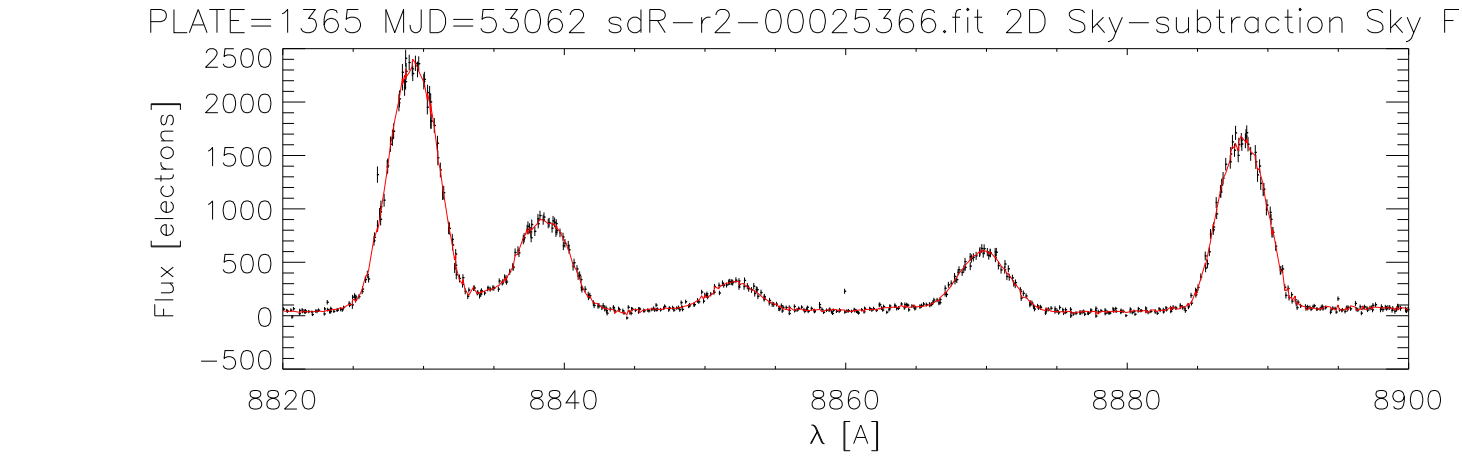

PLATE=1365 MJD=53062 sdR-r2-00025366.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

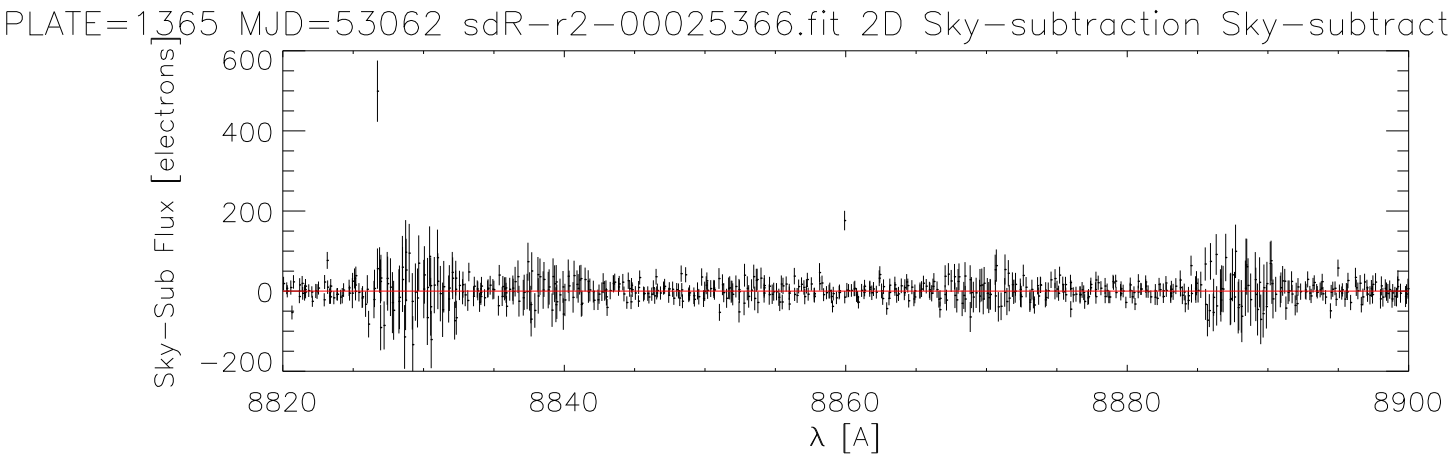

PLATE=1365 MJD=53062 sdR-r2-00025366.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

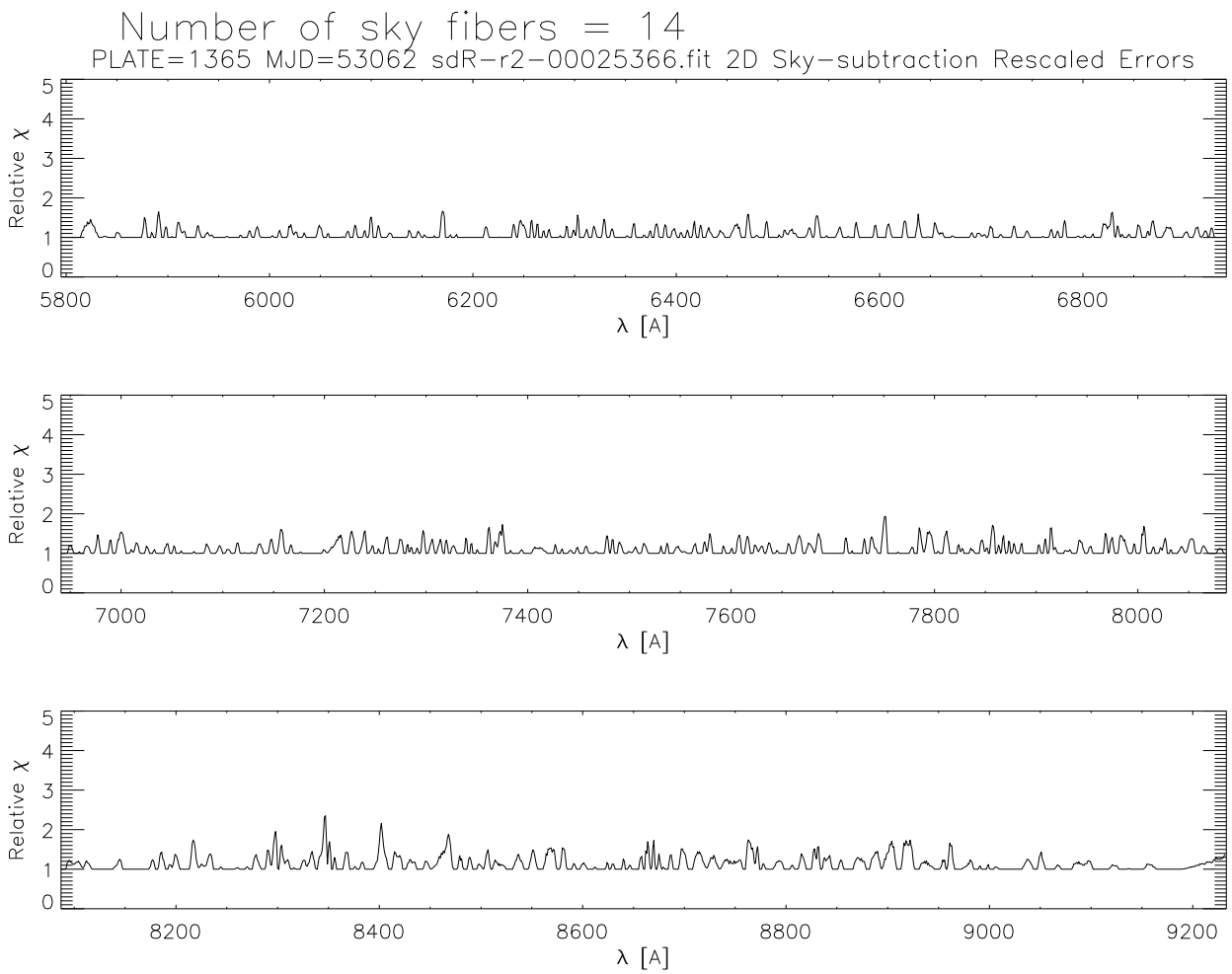

PLATE=1365 MJD=53062 sdR-r2-00025366.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
8820
8840
8860
8880
8900
λ [A]

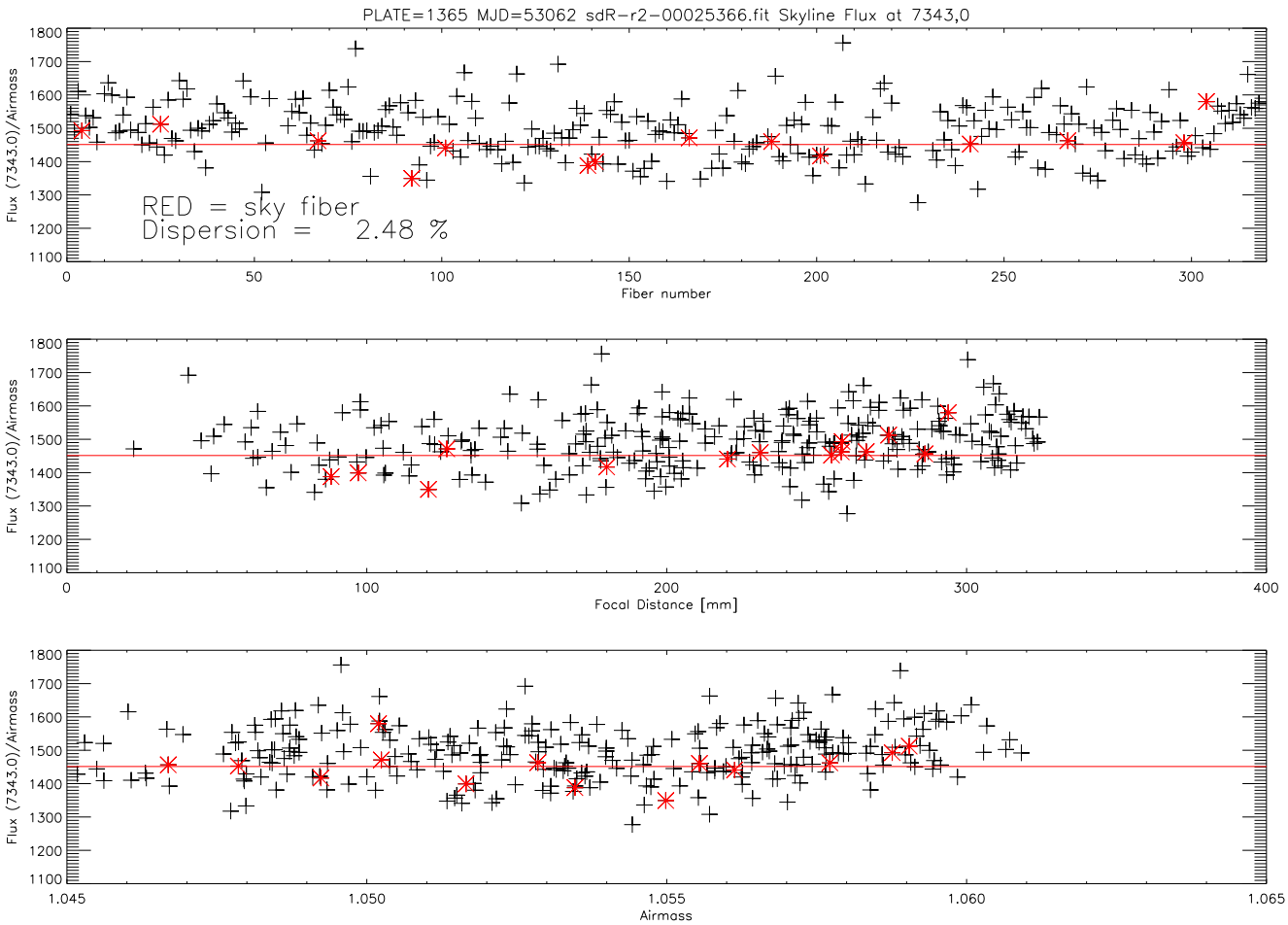

Number of sky fibers = 14
PLATE=1365 MJD=53062 sdR-r2-00025366.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

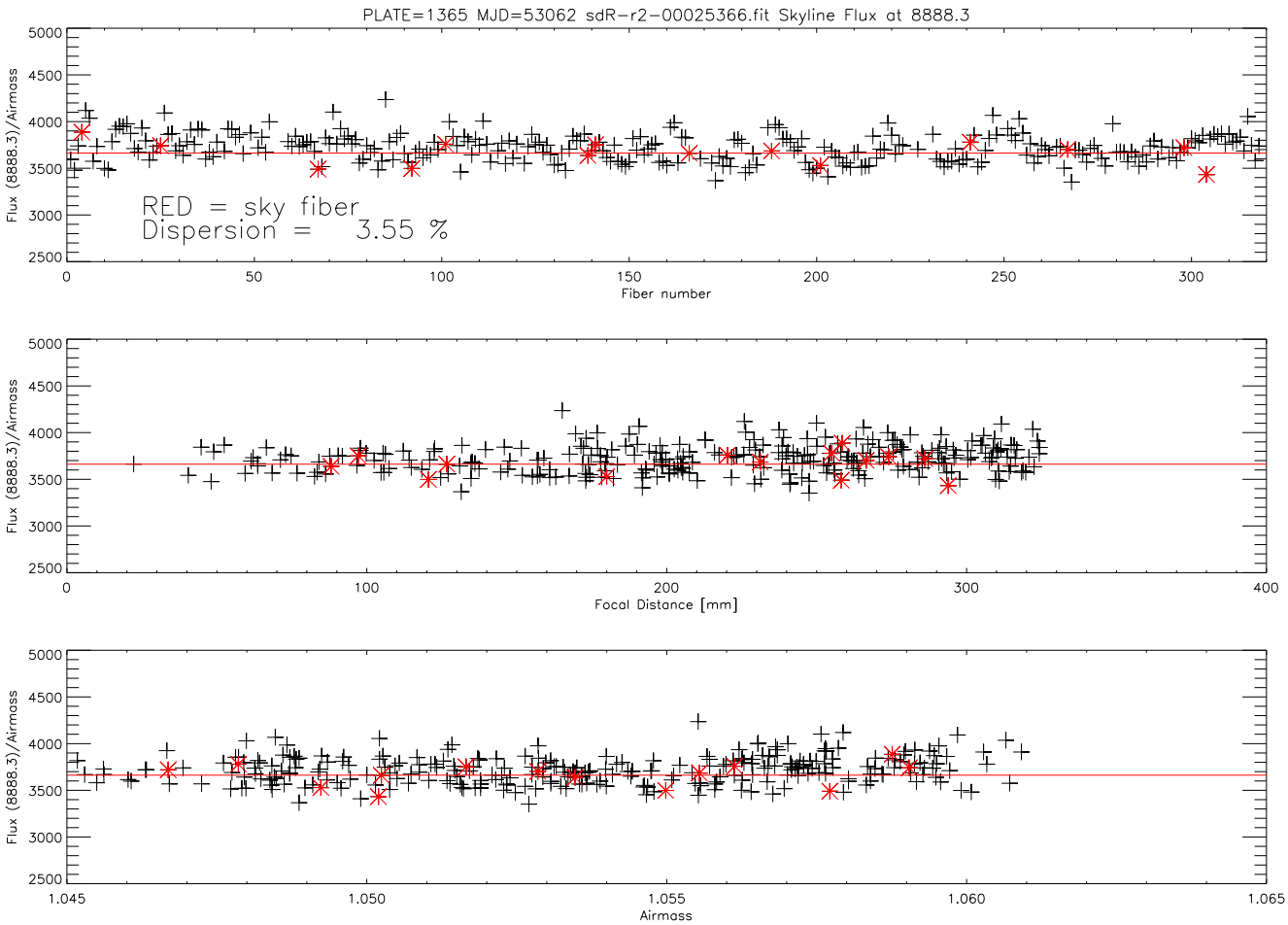

PLATE=1365 MJD=53062 sdR-r2-00025366.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number


PLATE=1365 MJD=53062 sdR-r2-00025366.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]


PLATE=1365 MJD=53062 sdR-r2-00025366.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 = 14
PLATE=1365 MJD=53062 sdR-r2-00025366.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=1365 MJD=53062 sdR-r2-00025366.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.48 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=1365 MJD=53062 sdR-r2-00025366.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.55 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass