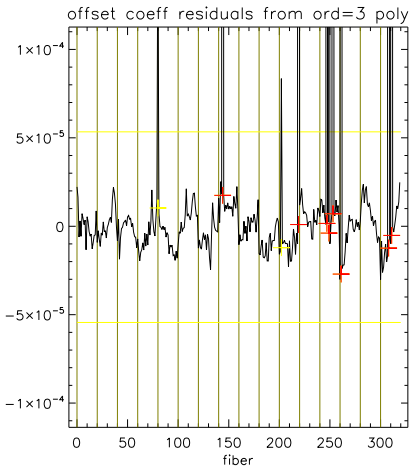
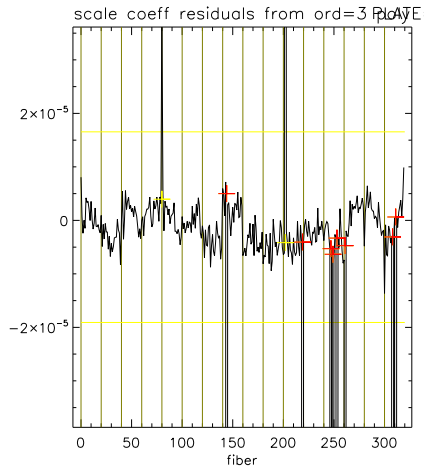
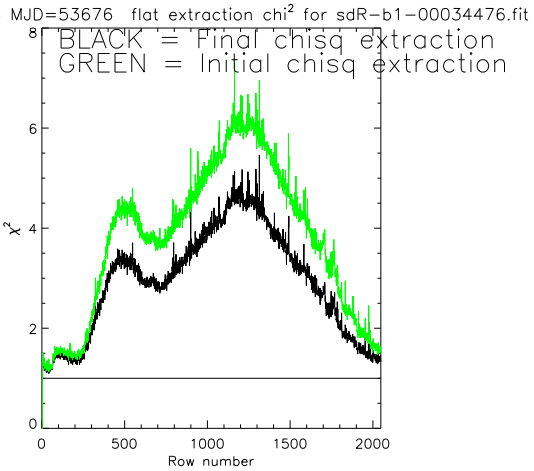
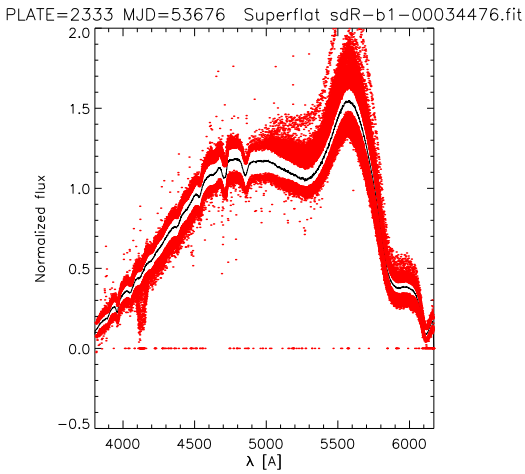
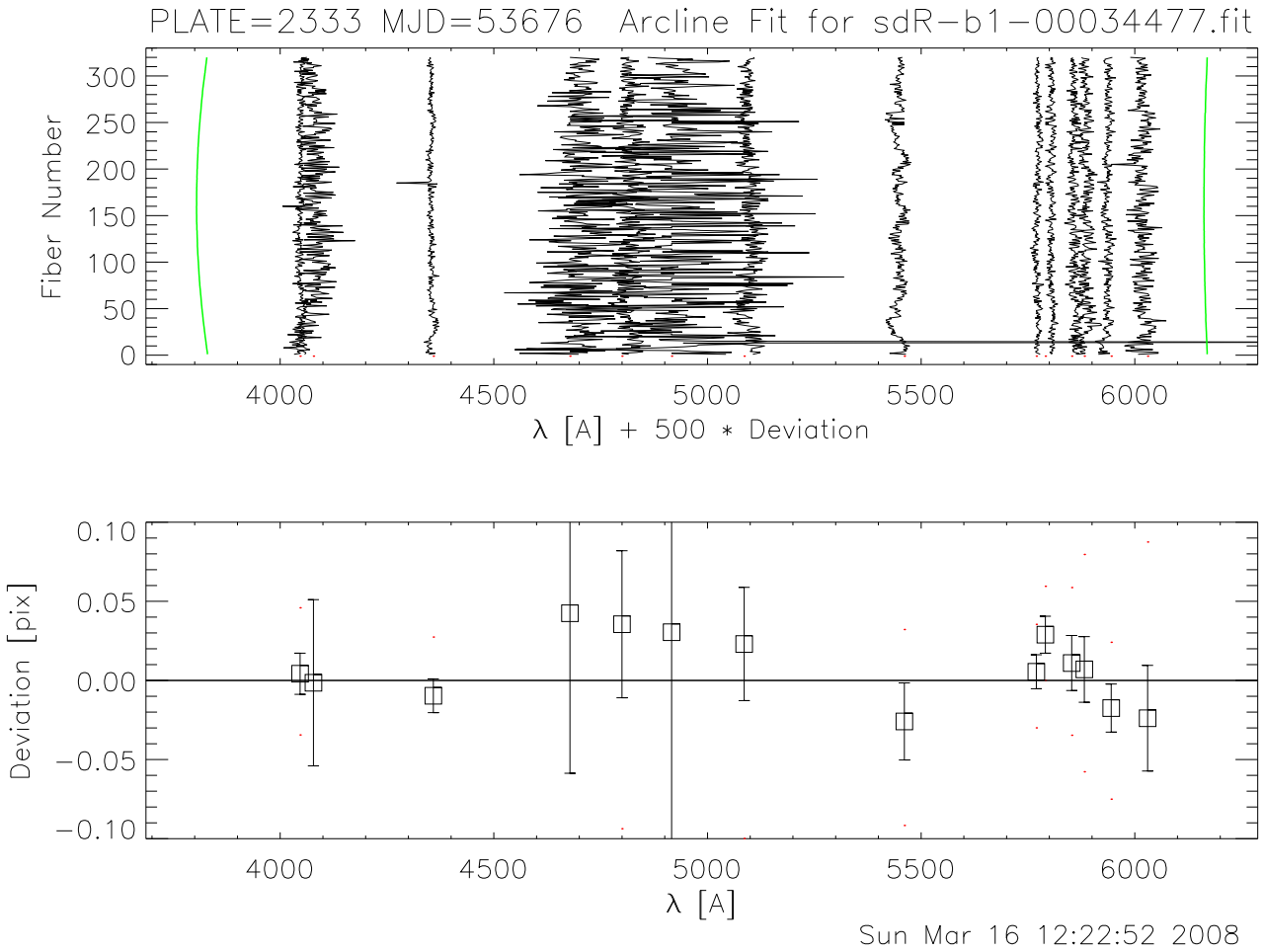
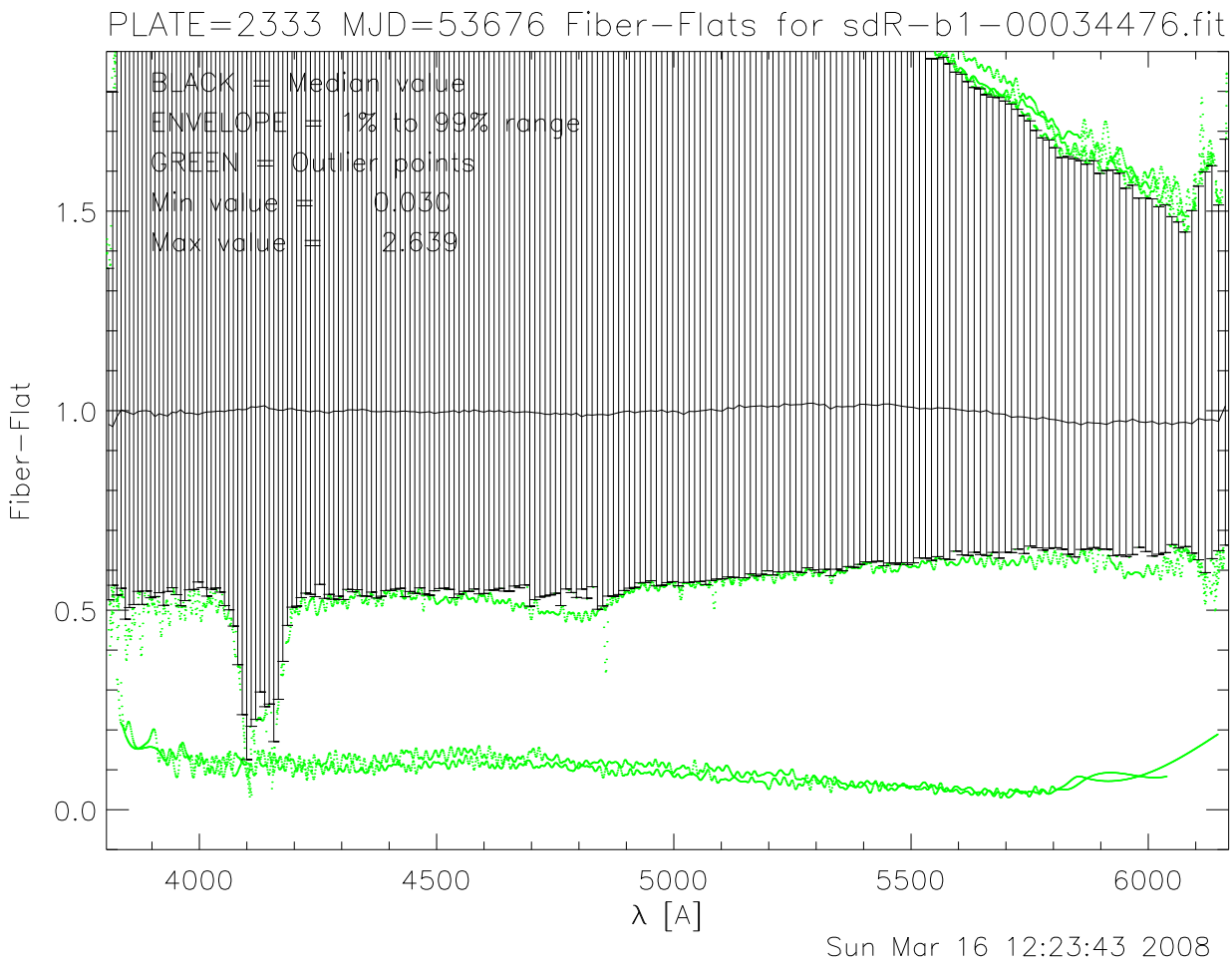

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0 50 100 150 200 250 300
fiber

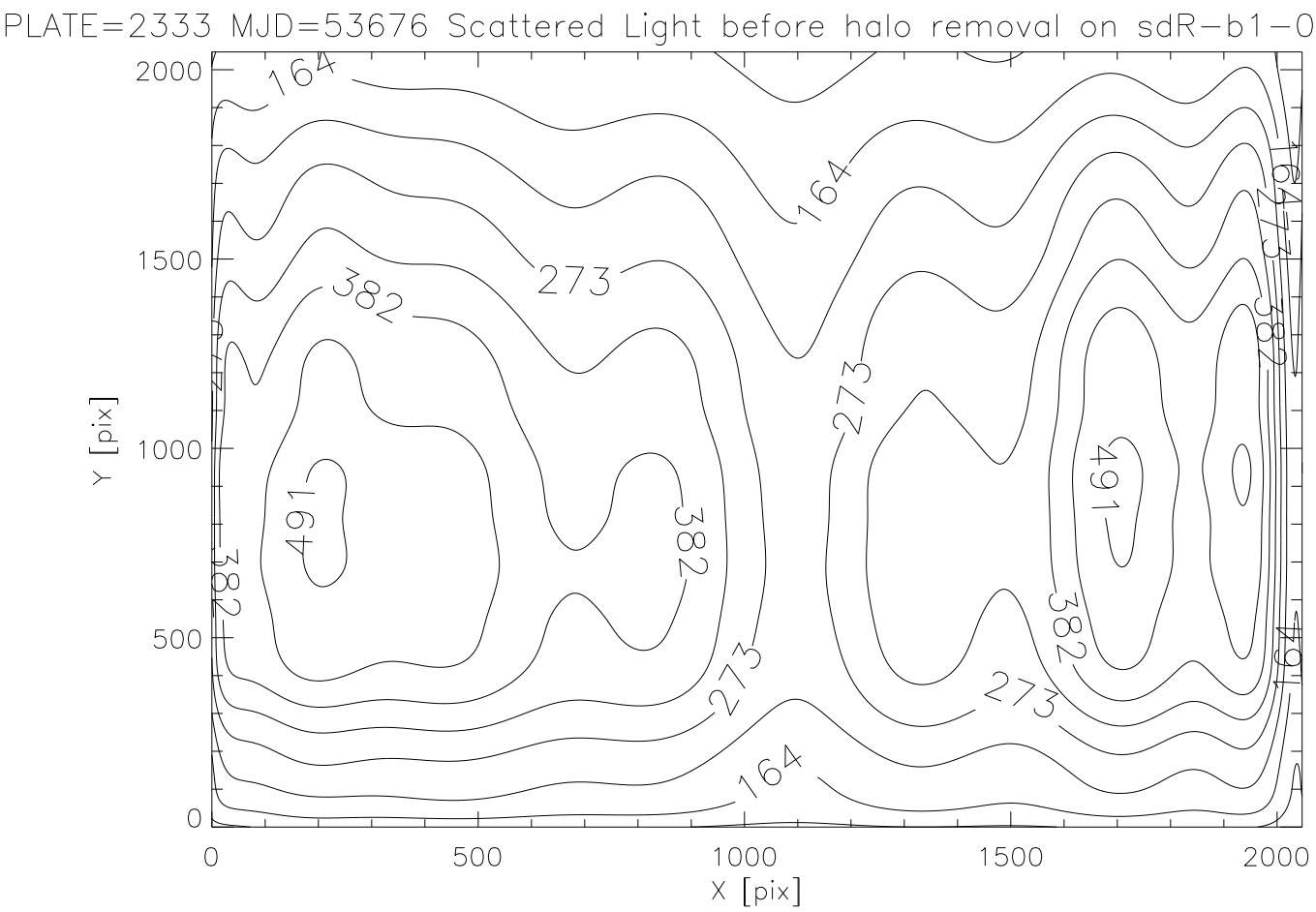

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0 50 100 150 200 250 300
fiber

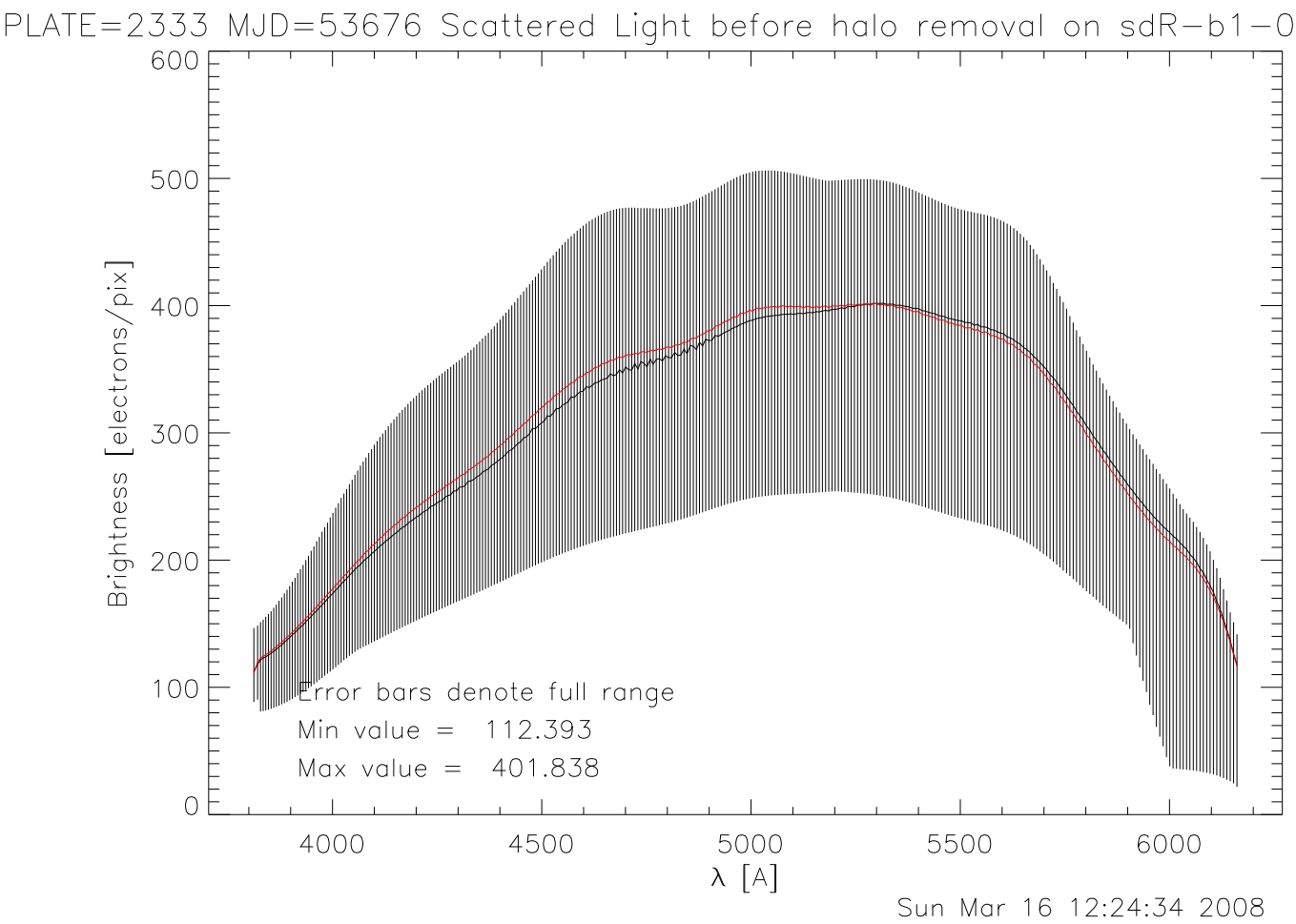

PLATE=2333 MJD=53676 flat extraction chi² for sdR-b1-00034476.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ²
0 2 4 6 8
0 500 1000 1500 2000
Row number

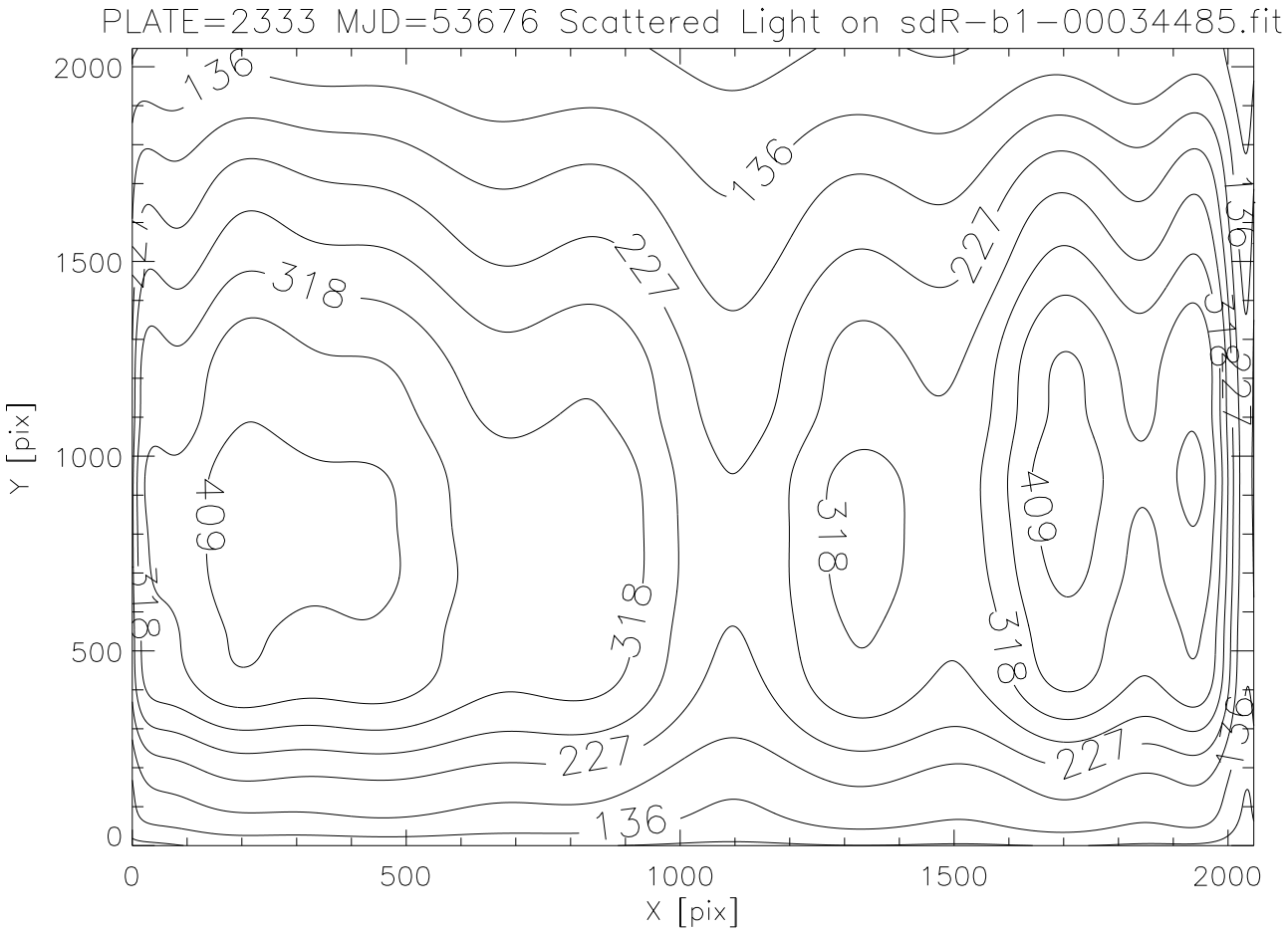

PLATE=2333 MJD=53676 Superflat sdR-b1-00034476.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
−0.5
4000 4500 5000 5500 6000
λ [A]

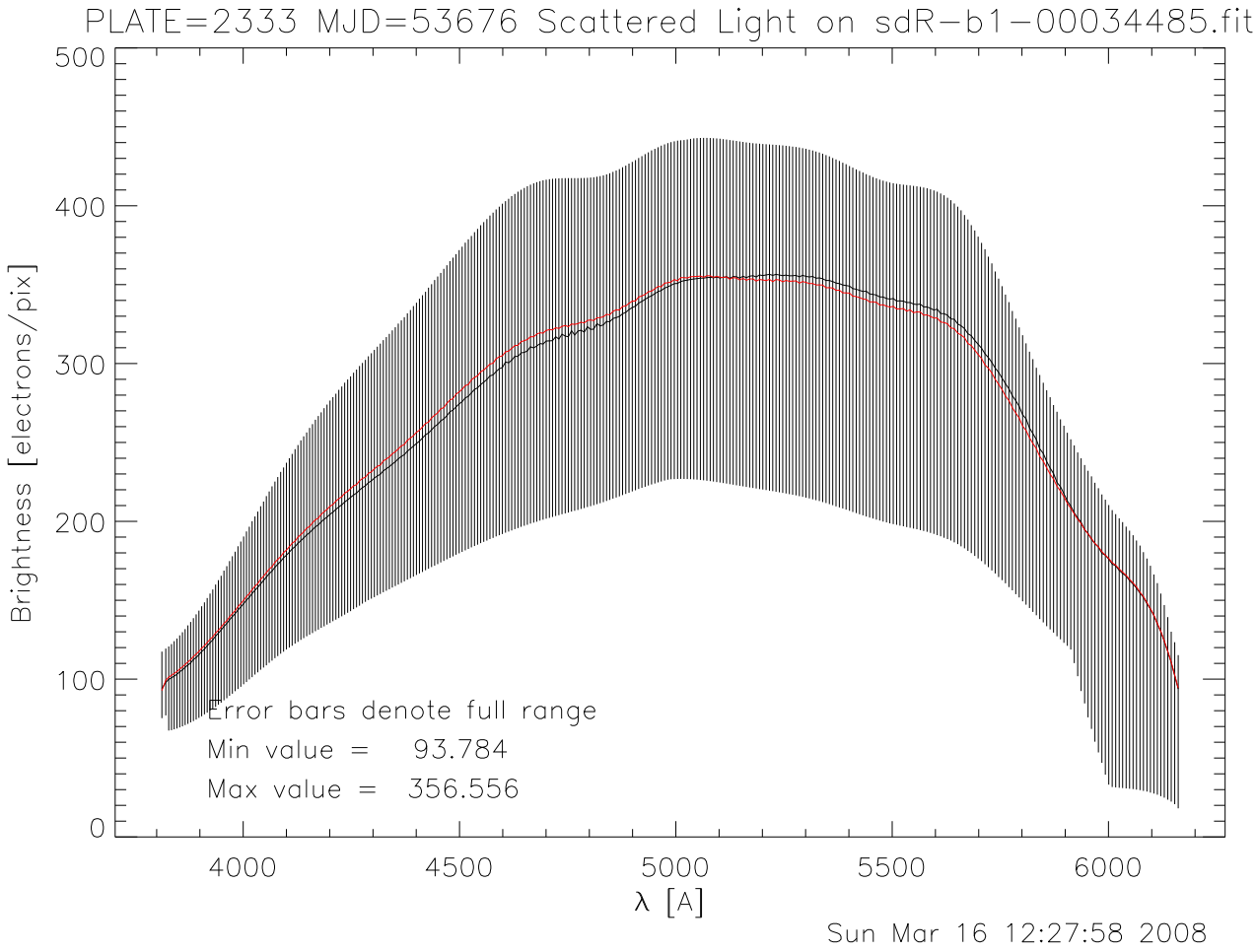

PLATE=2333 MJD=53676 Arcline Fit for sdR-b1-00034477.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Mar 16 12:22:52 2008

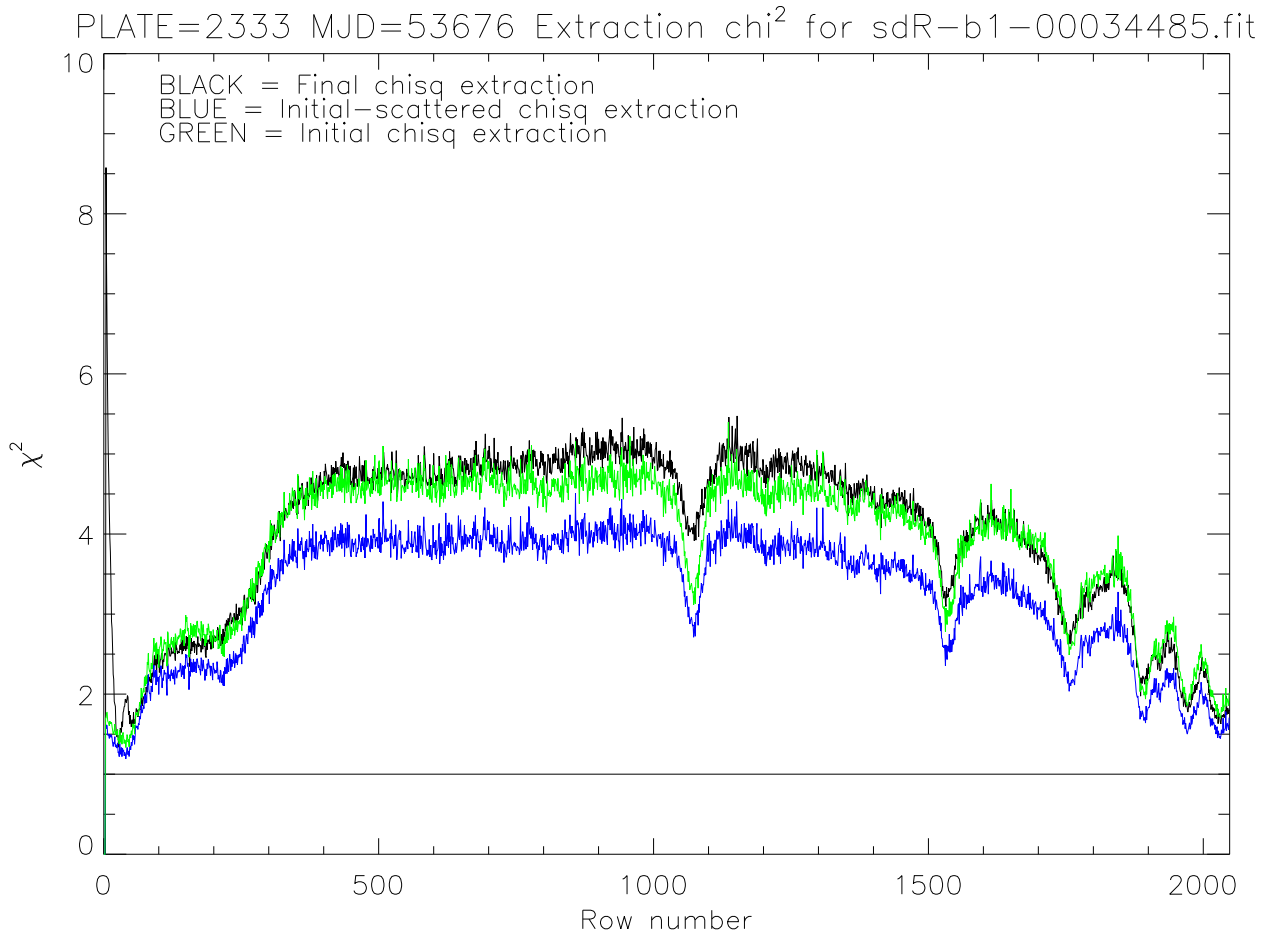

PLATE=2333 MJD=53676 Fiber-Flats for sdR-b1-00034476.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.030
Max value = 2.639
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Mar 16 12:23:43 2008

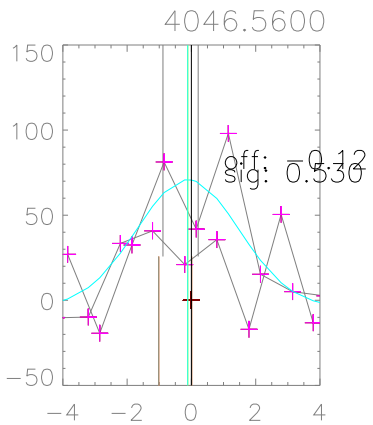

PLATE=2333 MJD=53676 Scattered Light before halo removal on sdR−b1−00034485.f
Y [pix]
X [pix]
0
500
1000
1500
2000
164
273
382
491

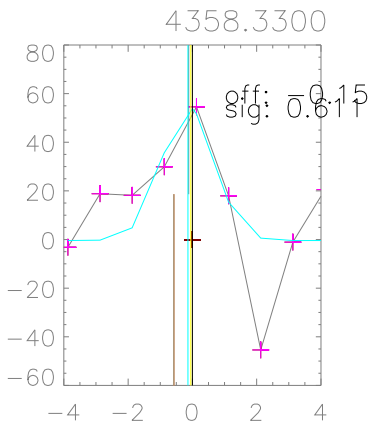

PLATE=2333 MJD=53676 Scattered Light before halo removal on sdR-b1-00034485.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 112.393
Max value = 401.838
Sun Mar 16 12:24:34 2008

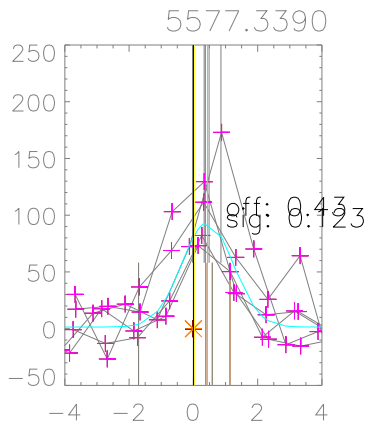

PLATE=2333 MJD=53676 Scattered Light on sdR-b1-00034485.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
136
227
318
409

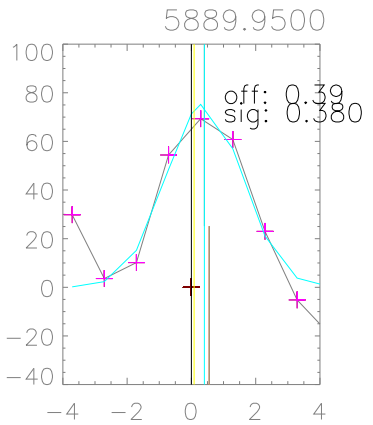

PLATE=2333 MJD=53676 Scattered Light on sdR-b1-00034485.fit
Brightness [electrons/pix]
500
400
300
200
100
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 93.784
Max value = 356.556
Sun Mar 16 12:27:58 2008

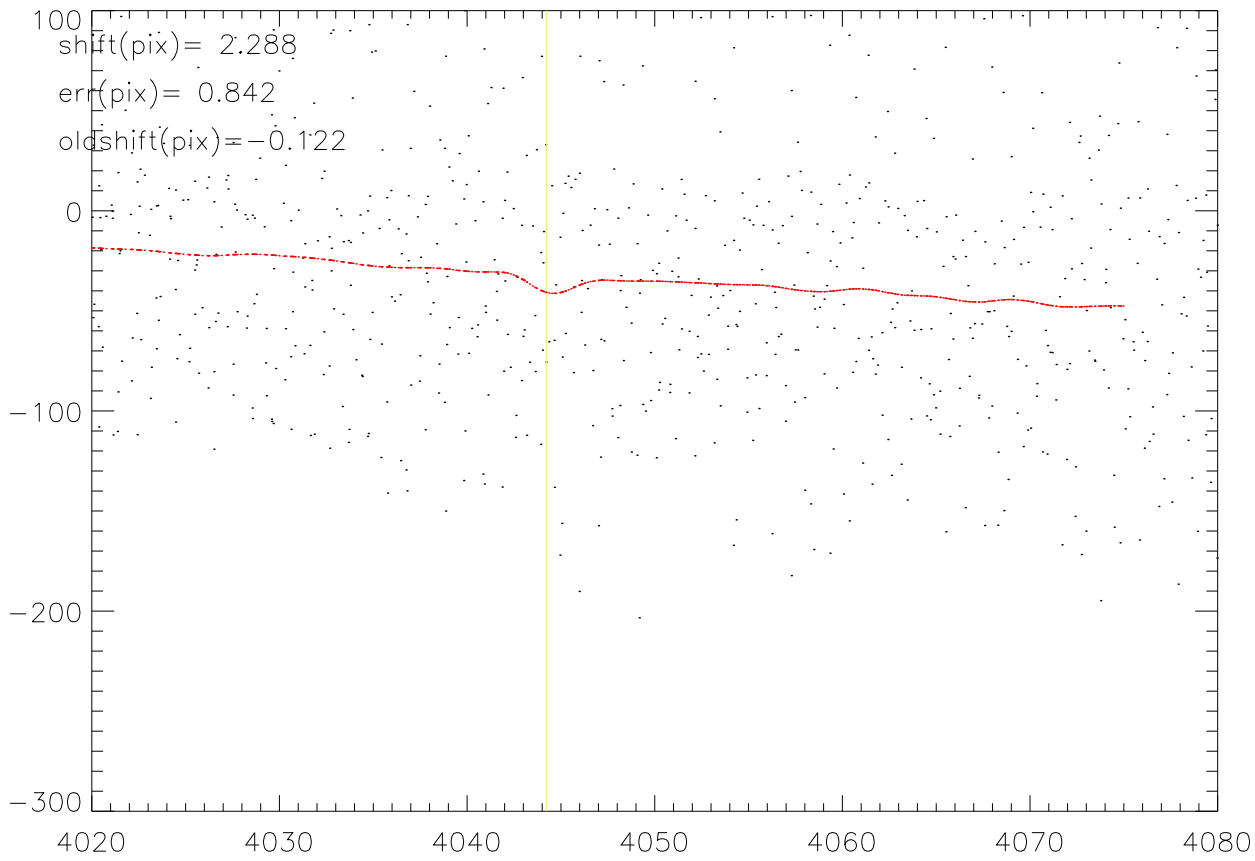

PLATE=2333 MJD=53676 Extraction chi^2 for sdR-b1-00034485.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

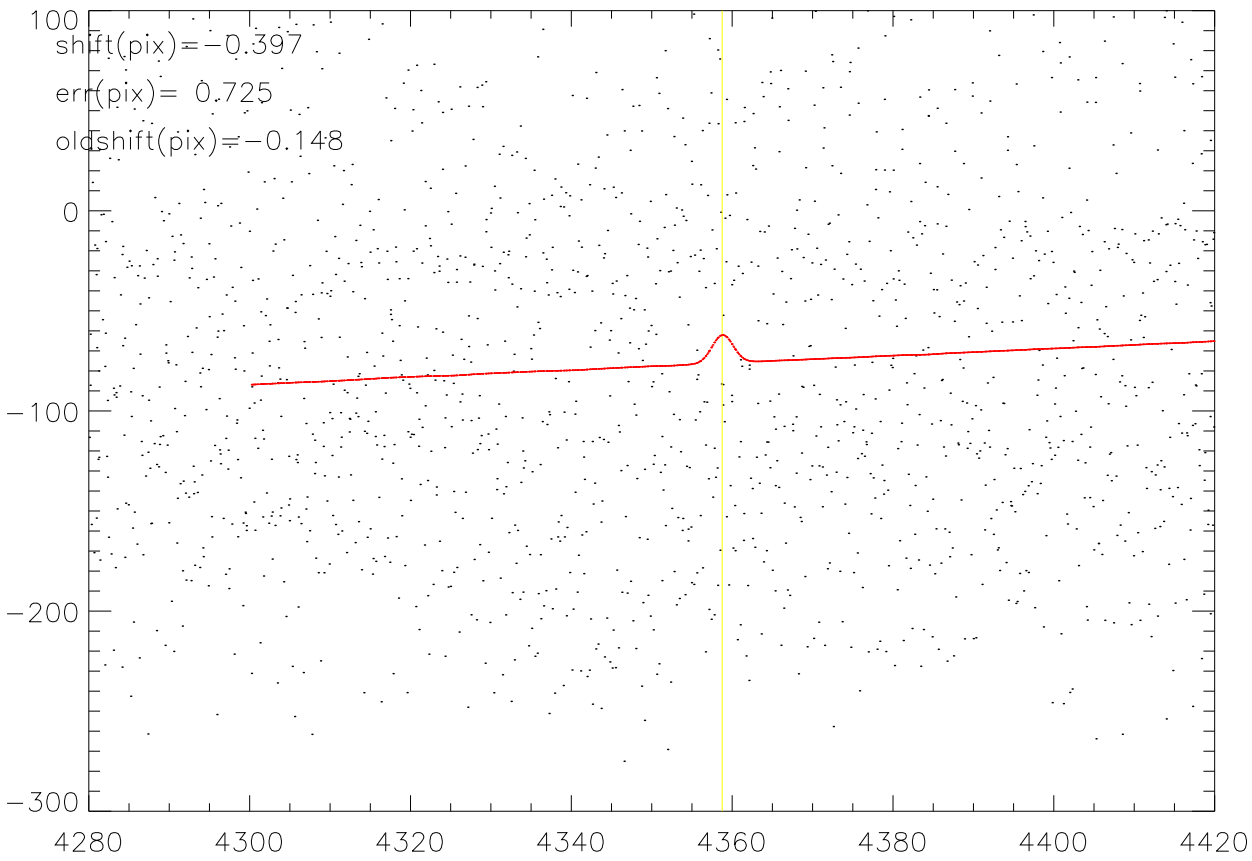

4046.5600
off: −0.12
sig: 0.530

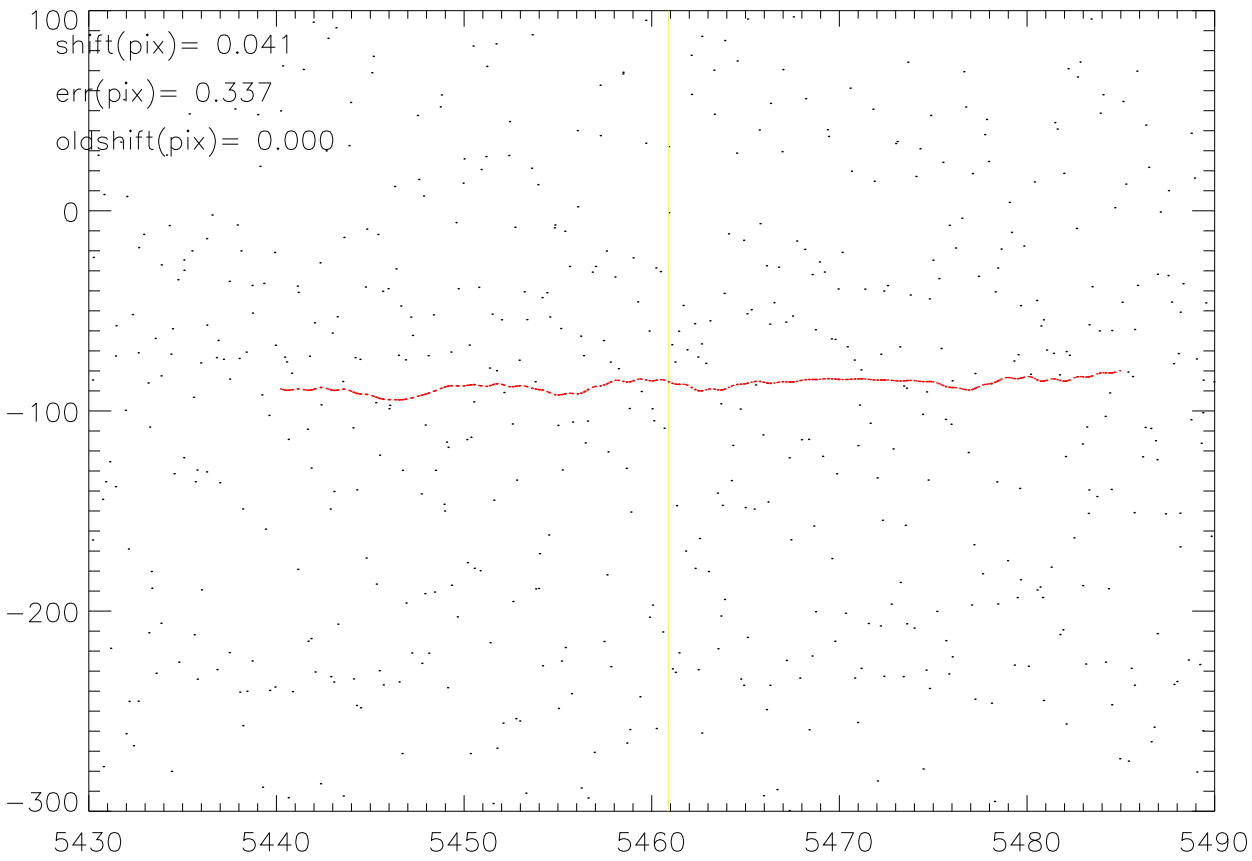

4358.3300
off: −0.15
sig: 0.611

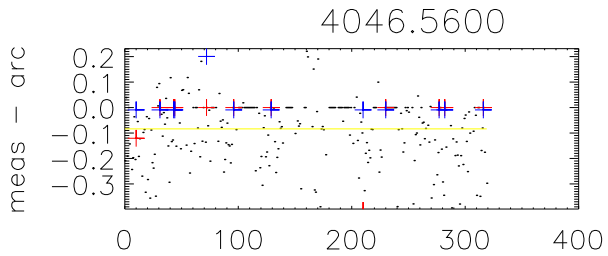

5577.3390
off: 0.43
sig: 0.123

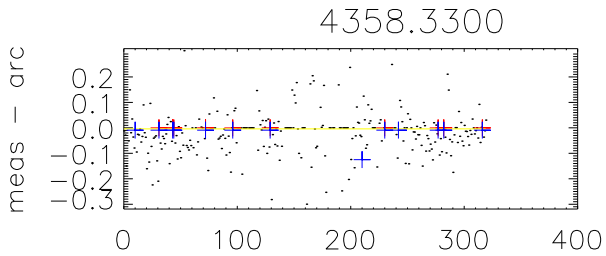

5889.9500
off: 0.39
sig: 0.380

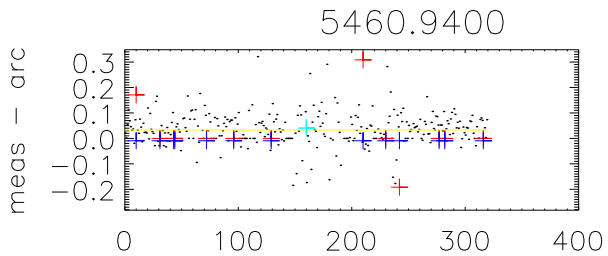

shift(pix)= 2.288
err(pix)= 0.842
oldshift(pix)=−0.122
100
0
−100
−200
−300
4020
4030
4040
4050
4060
4070
4080

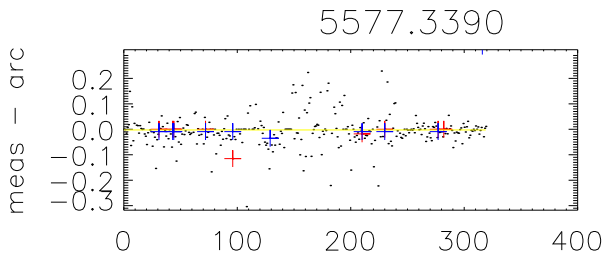

shift(pix)=−0.397
err(pix)= 0.725
oldshift(pix)=−0.148
100
0
−100
−200
−300
4280
4300
4320
4340
4360
4380
4400
4420

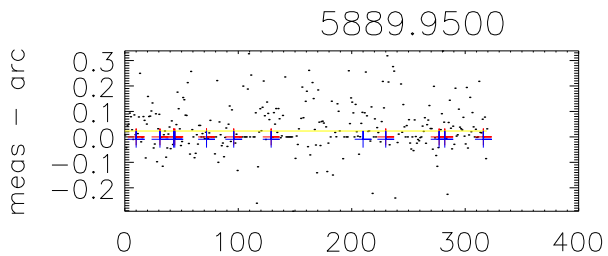

shift(pix)= 0.041
err(pix)= 0.337
oldshift(pix)= 0.000
100
0
−100
−200
−300
5430
5440
5450
5460
5470
5480
5490

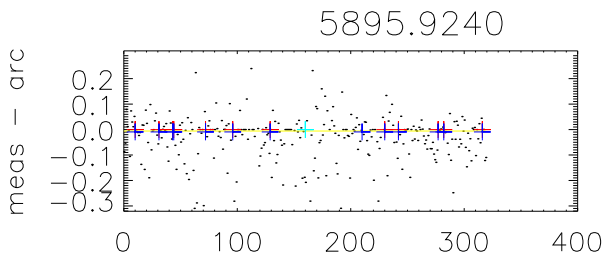

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

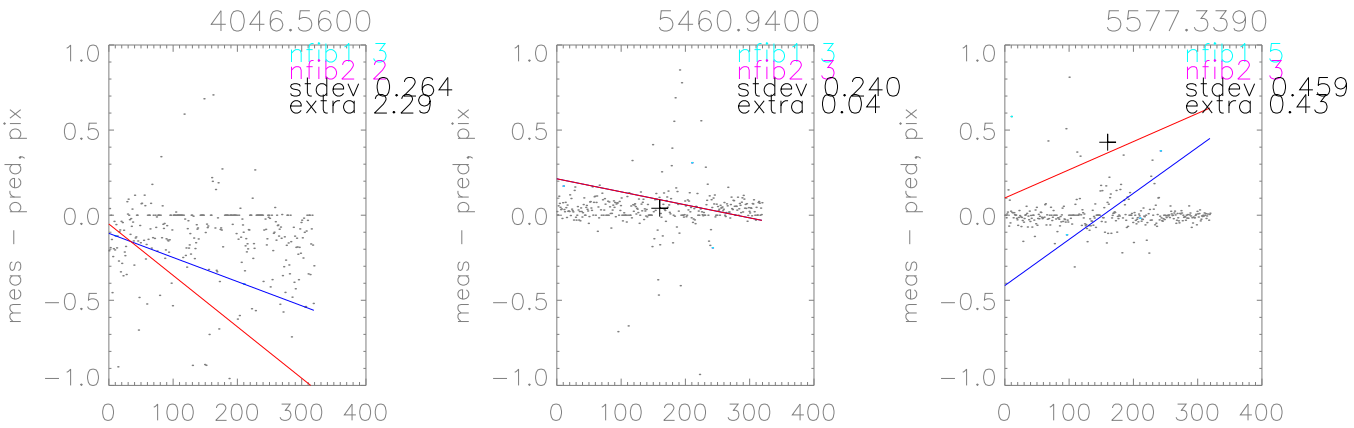

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

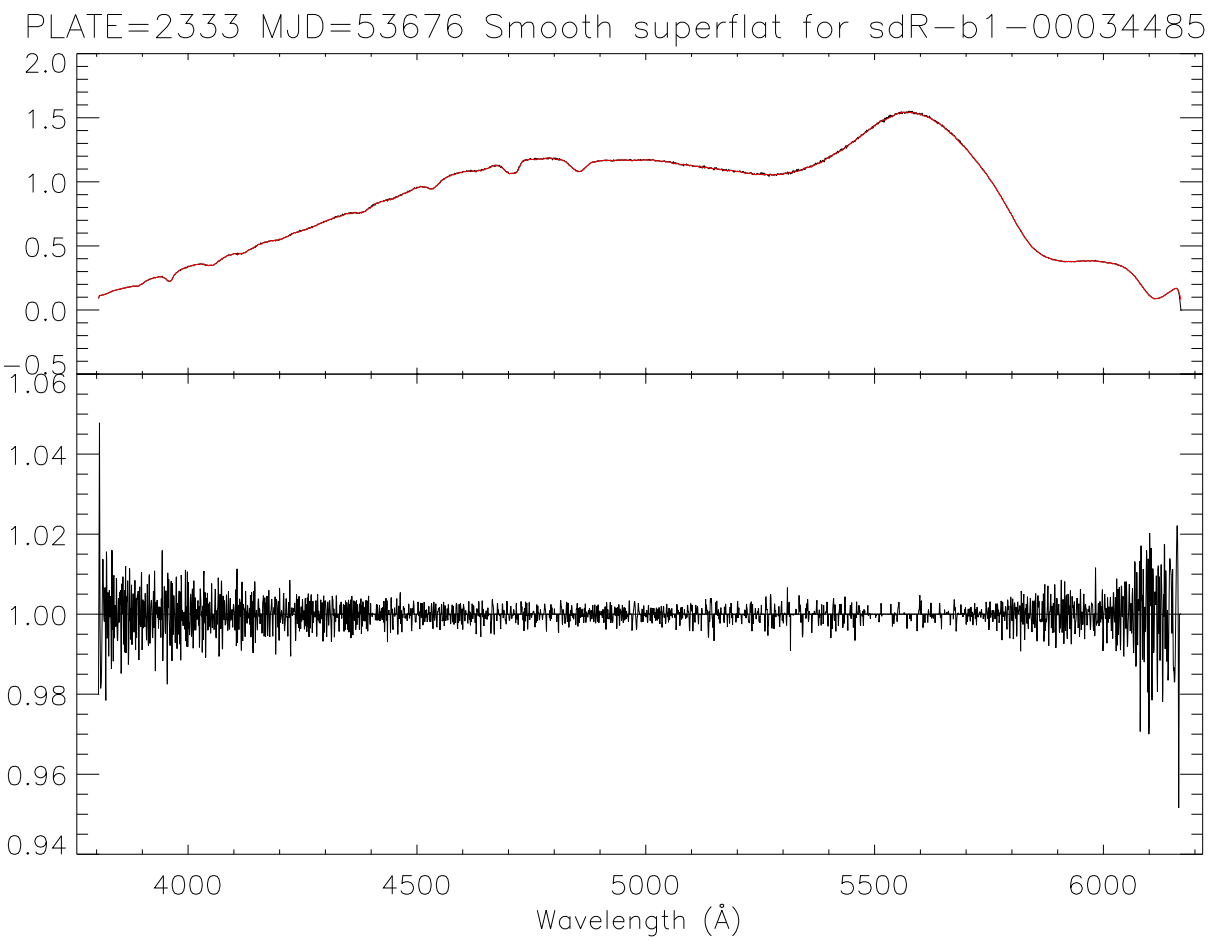

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

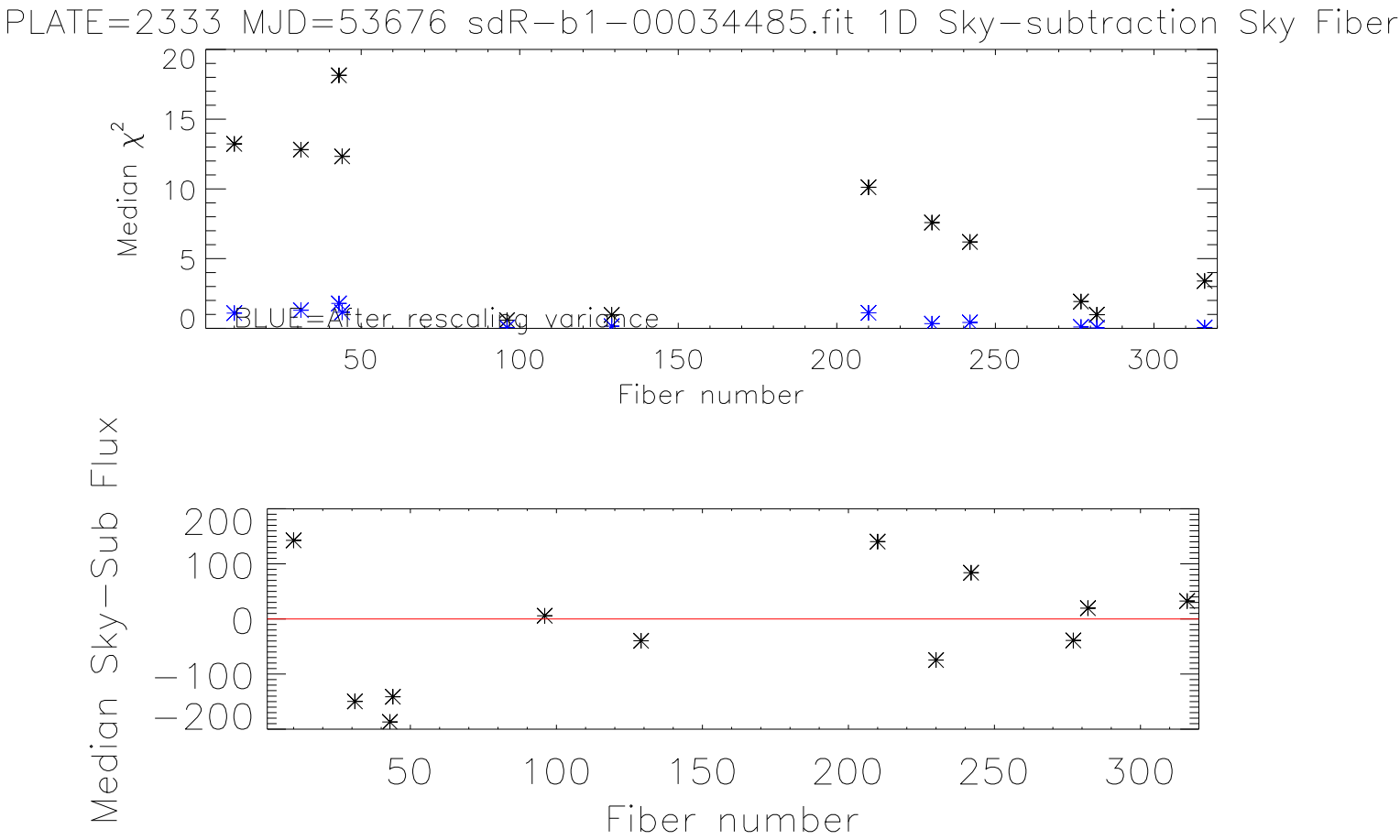

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

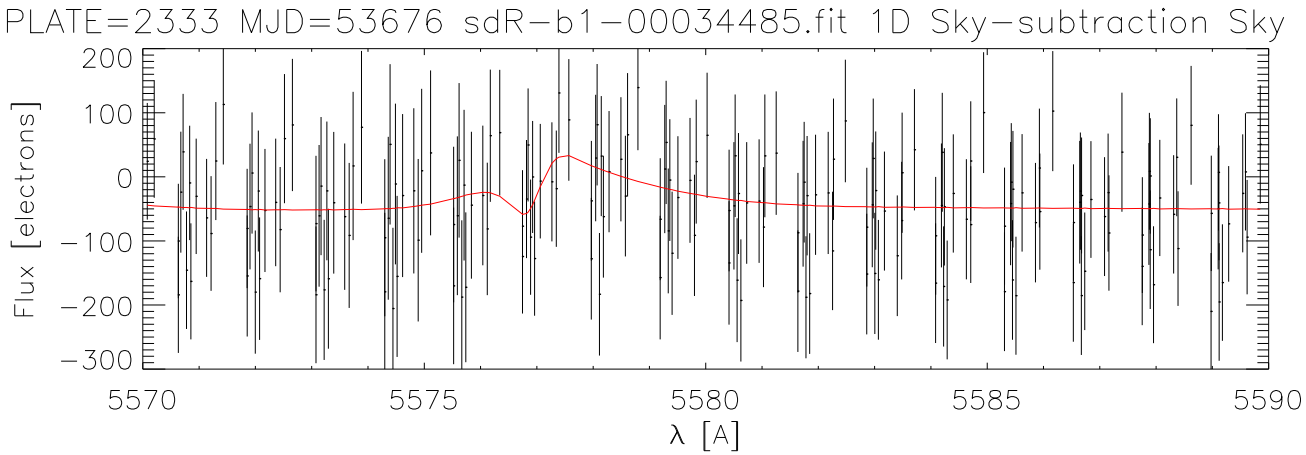

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

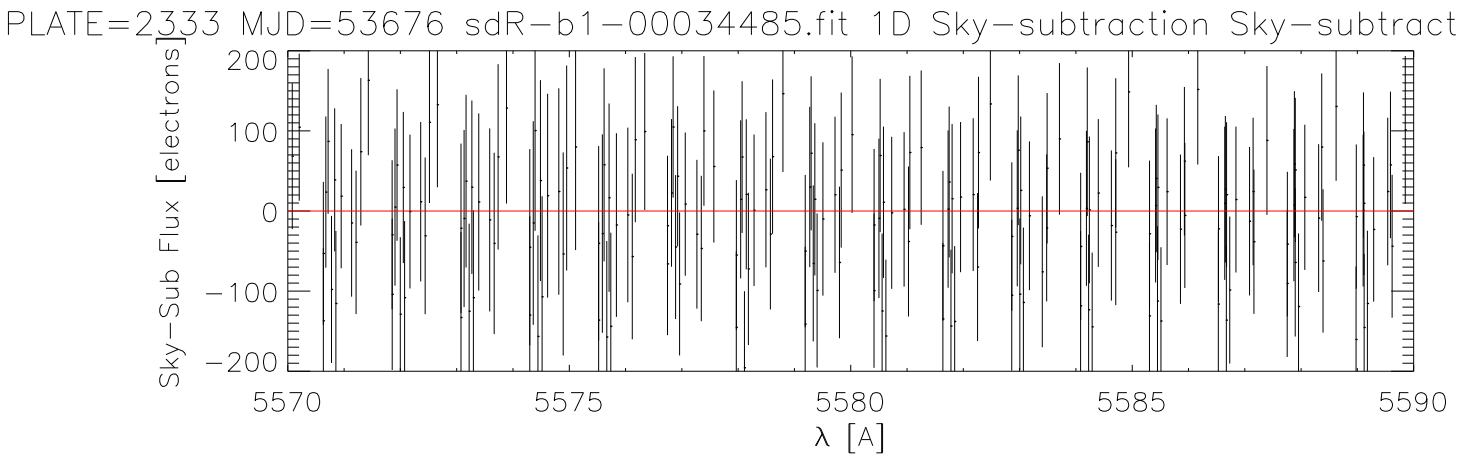

4046.5600
nfib1 3
nfib2 2
stdev 0.264
extra 2.29
5460.9400
nfib1 3
nfib2 3
stdev 0.240
extra 0.04
5577.3390
nfib1 5
nfib2 3
stdev 0.459
extra 0.43
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

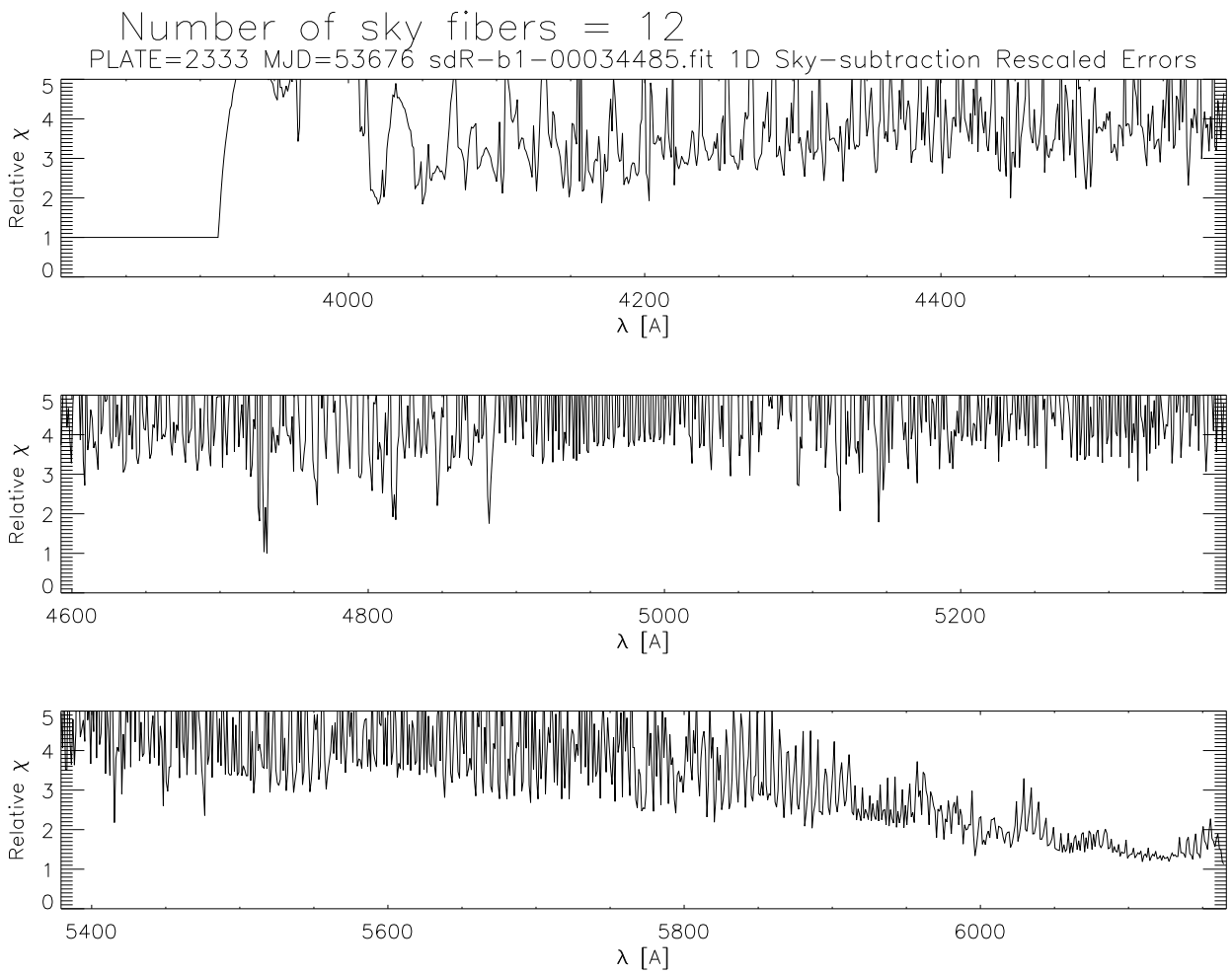
es= −0.0000

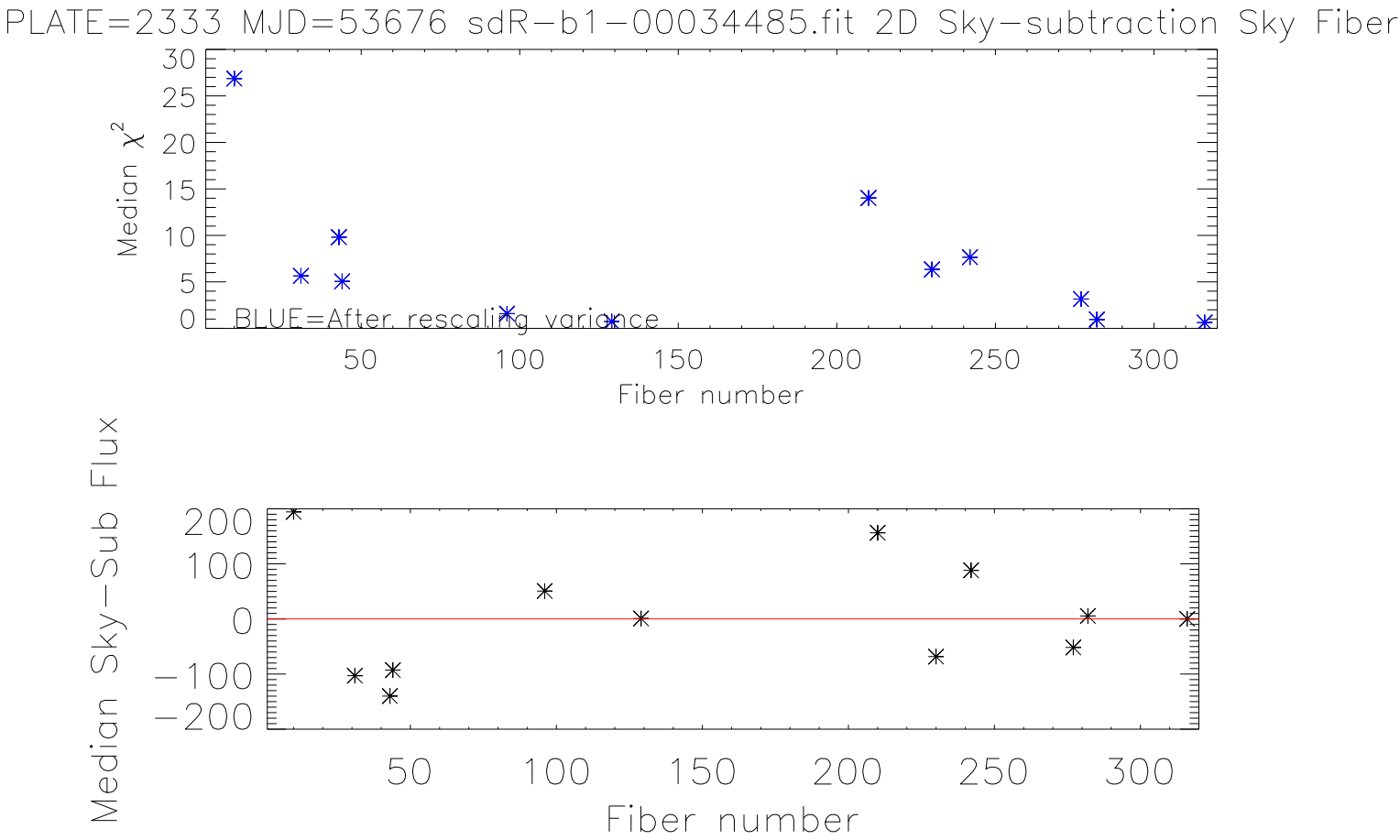

PLATE=2333 MJD=53676 Smooth superflat for sdR−b1−00034485.fit
2.0
1.5
1.0
0.5
0.0
−0.5
1.06
1.04
1.02
1.00
0.98
0.96
0.94
4000
4500
5000
5500
6000
Wavelength (Å)

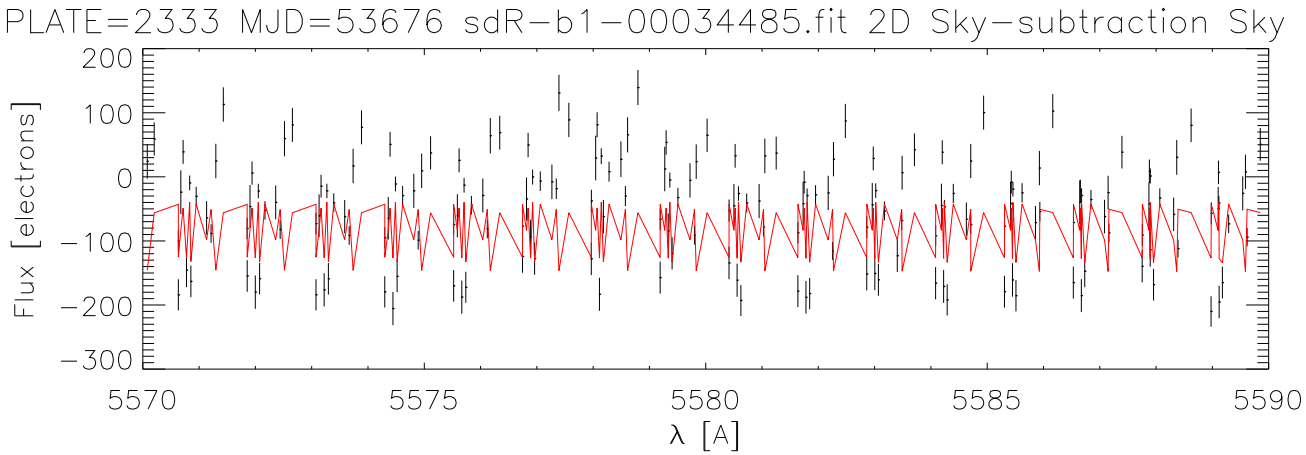

PLATE=2333 MJD=53676 sdR-b1-00034485.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

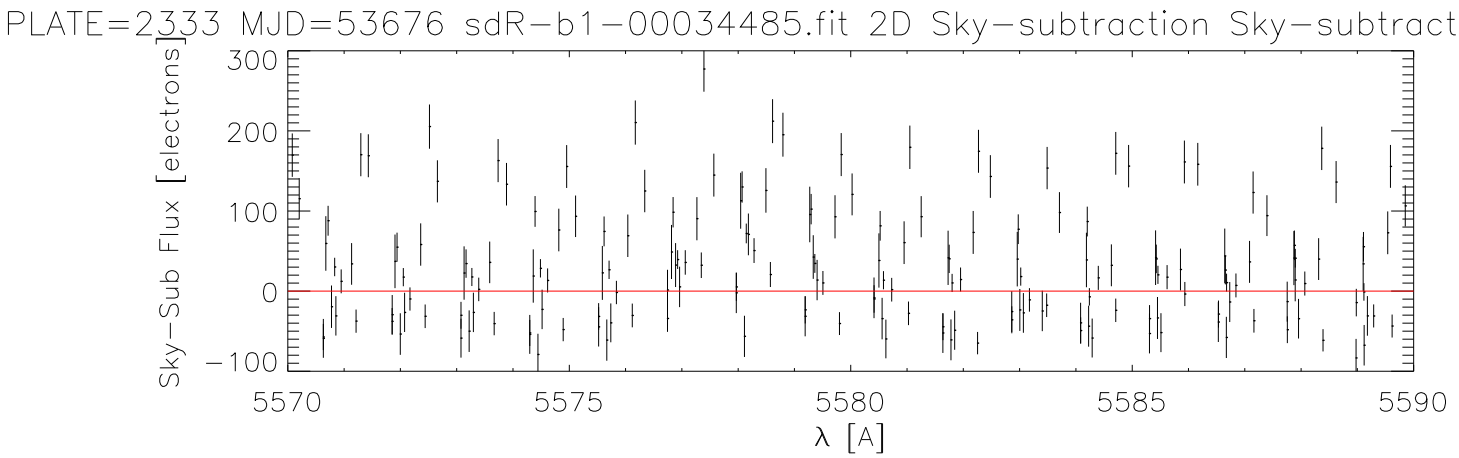

PLATE=2333 MJD=53676 sdR-b1-00034485.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
200
100
0
−100
−200
−300
5570
5575
5580
5585
5590
λ [A]

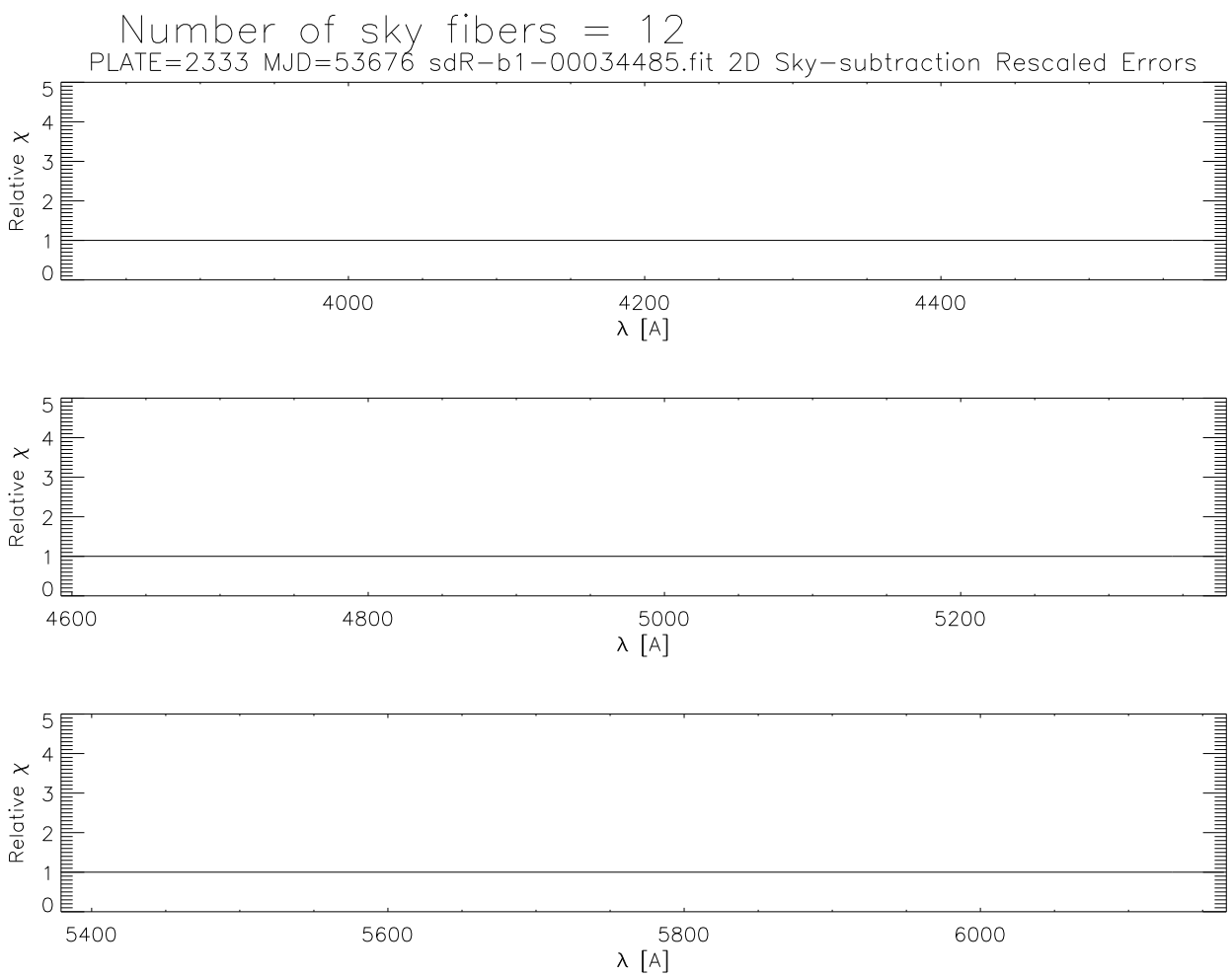

PLATE=2333 MJD=53676 sdR-b1-00034485.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
5570
5575
5580
5585
5590
λ [A]

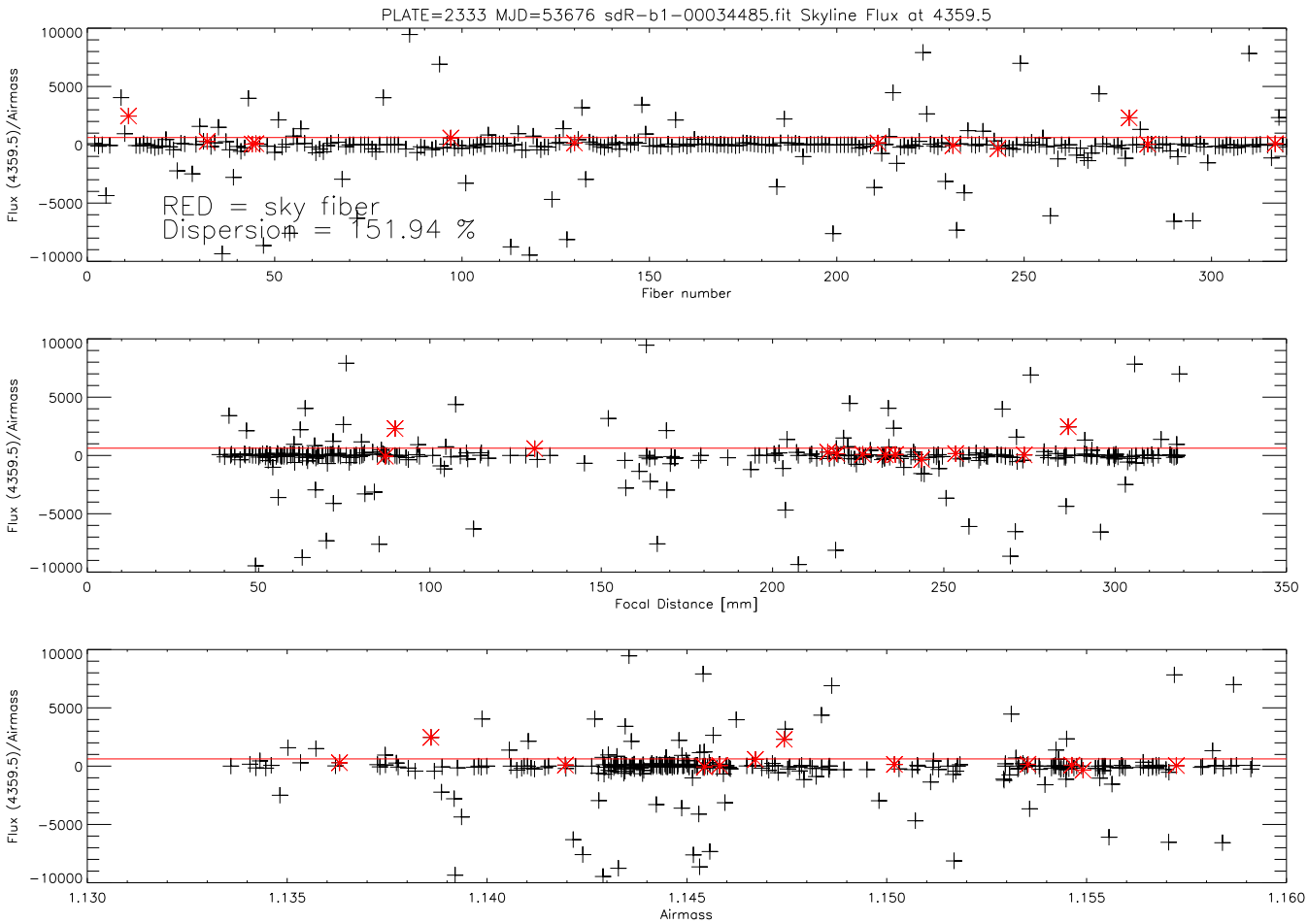

Number of sky fibers = 12
PLATE=2333 MJD=53676 sdR-b1-00034485.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

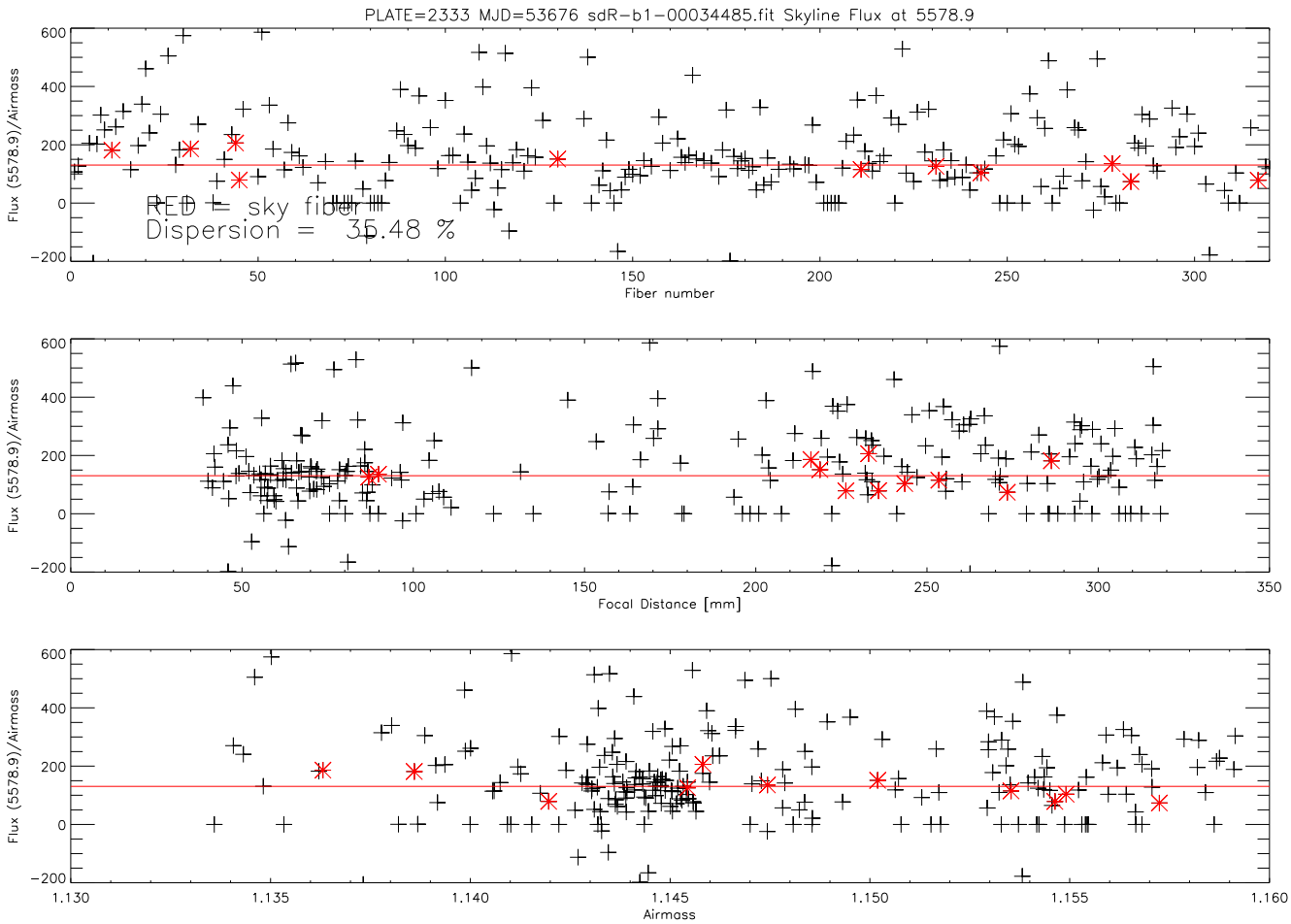

PLATE=2333 MJD=53676 sdR-b1-00034485.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

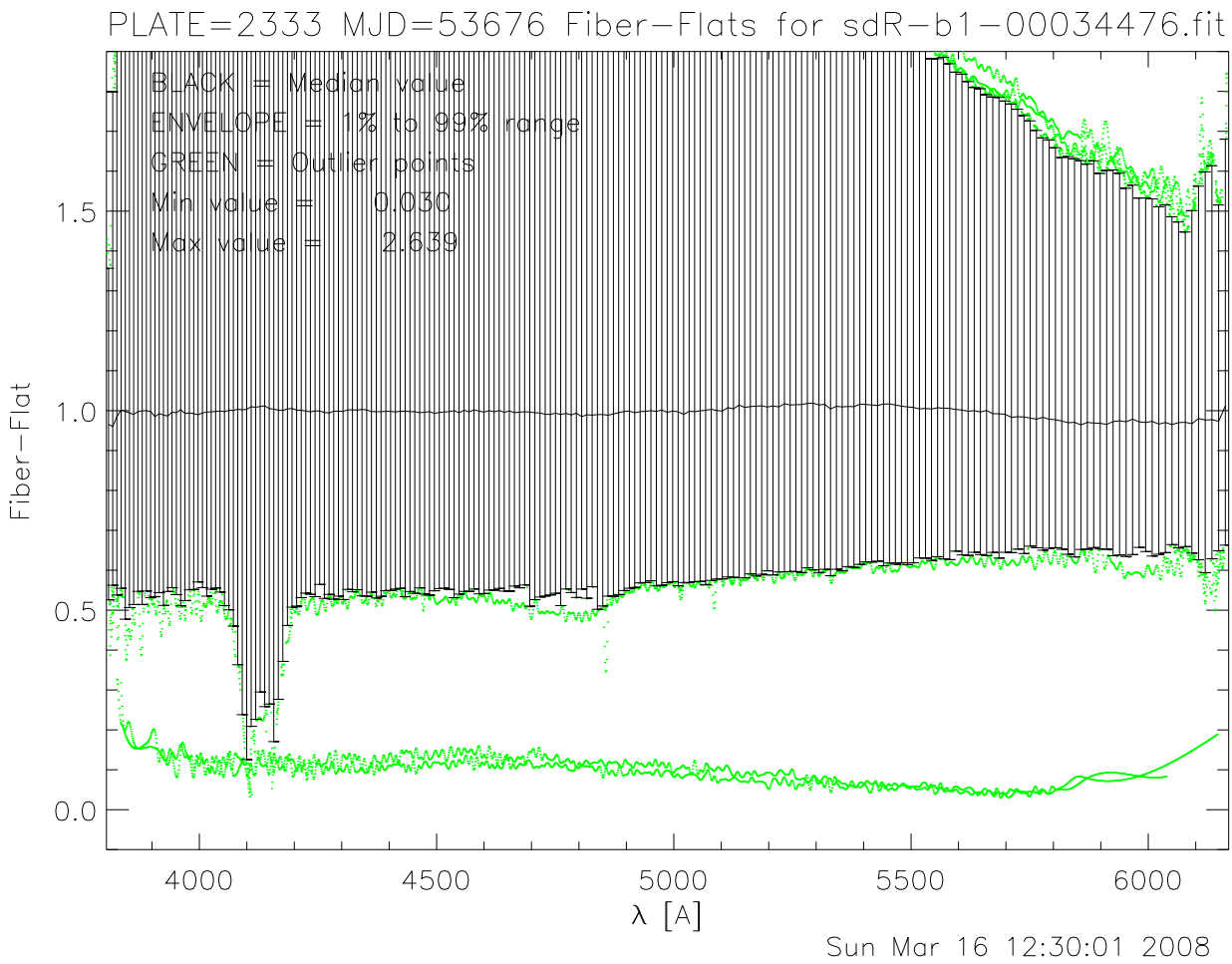

PLATE=2333 MJD=53676 sdR-b1-00034485.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

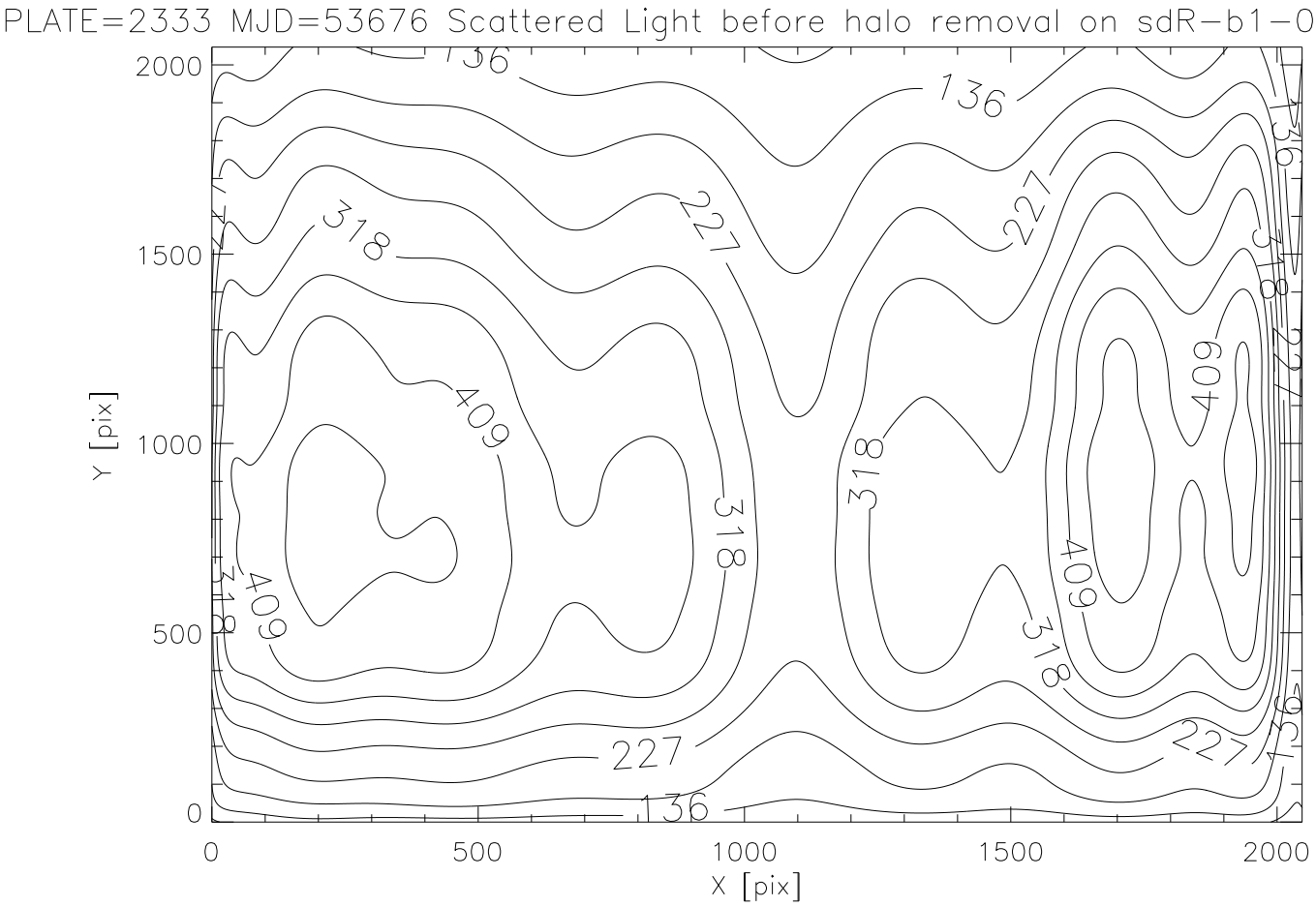

PLATE=2333 MJD=53676 sdR-b1-00034485.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
5570
5575
5580
5585
5590
λ [A]

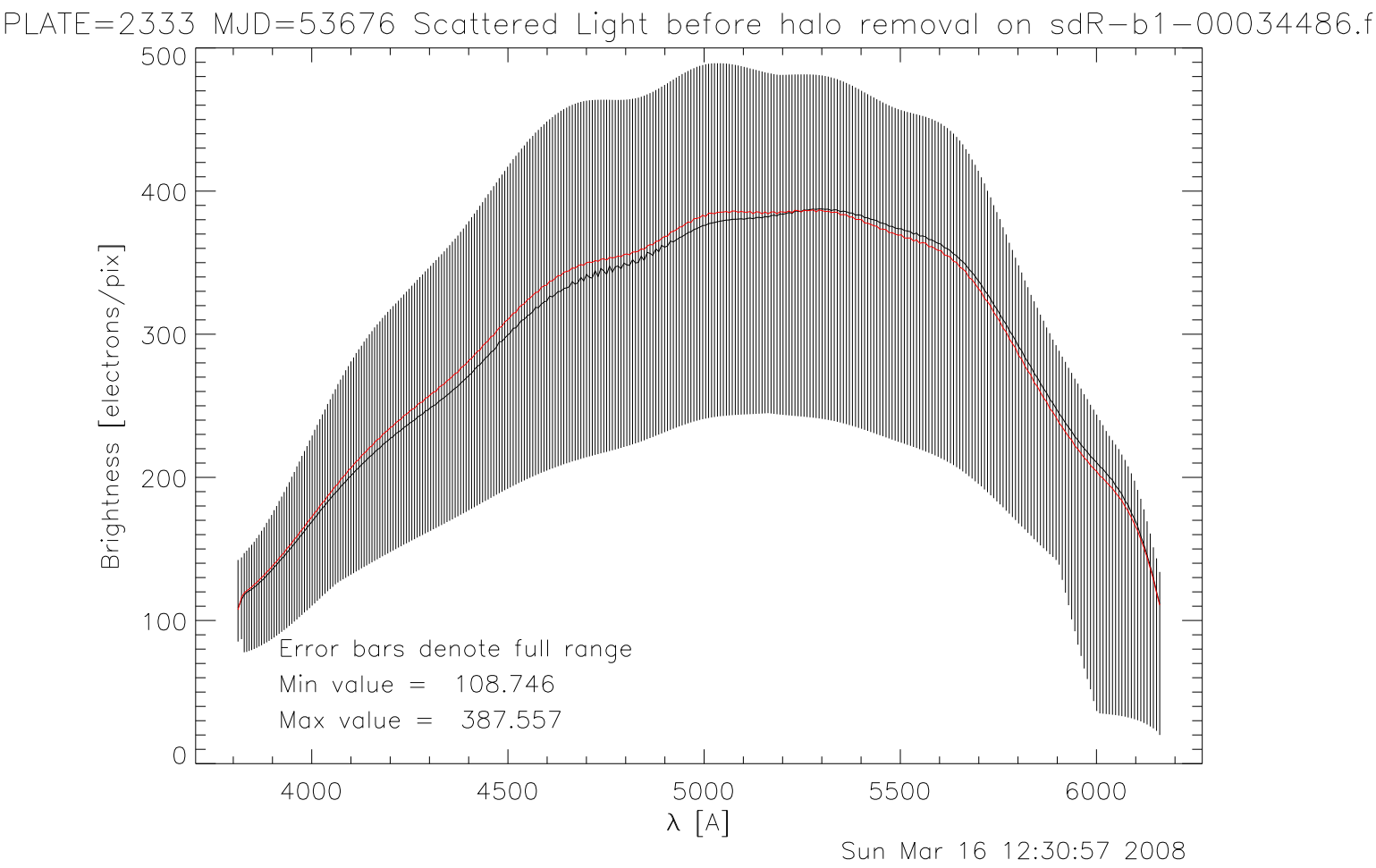

Number of sky fibers = 12
PLATE=2333 MJD=53676 sdR-b1-00034485.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

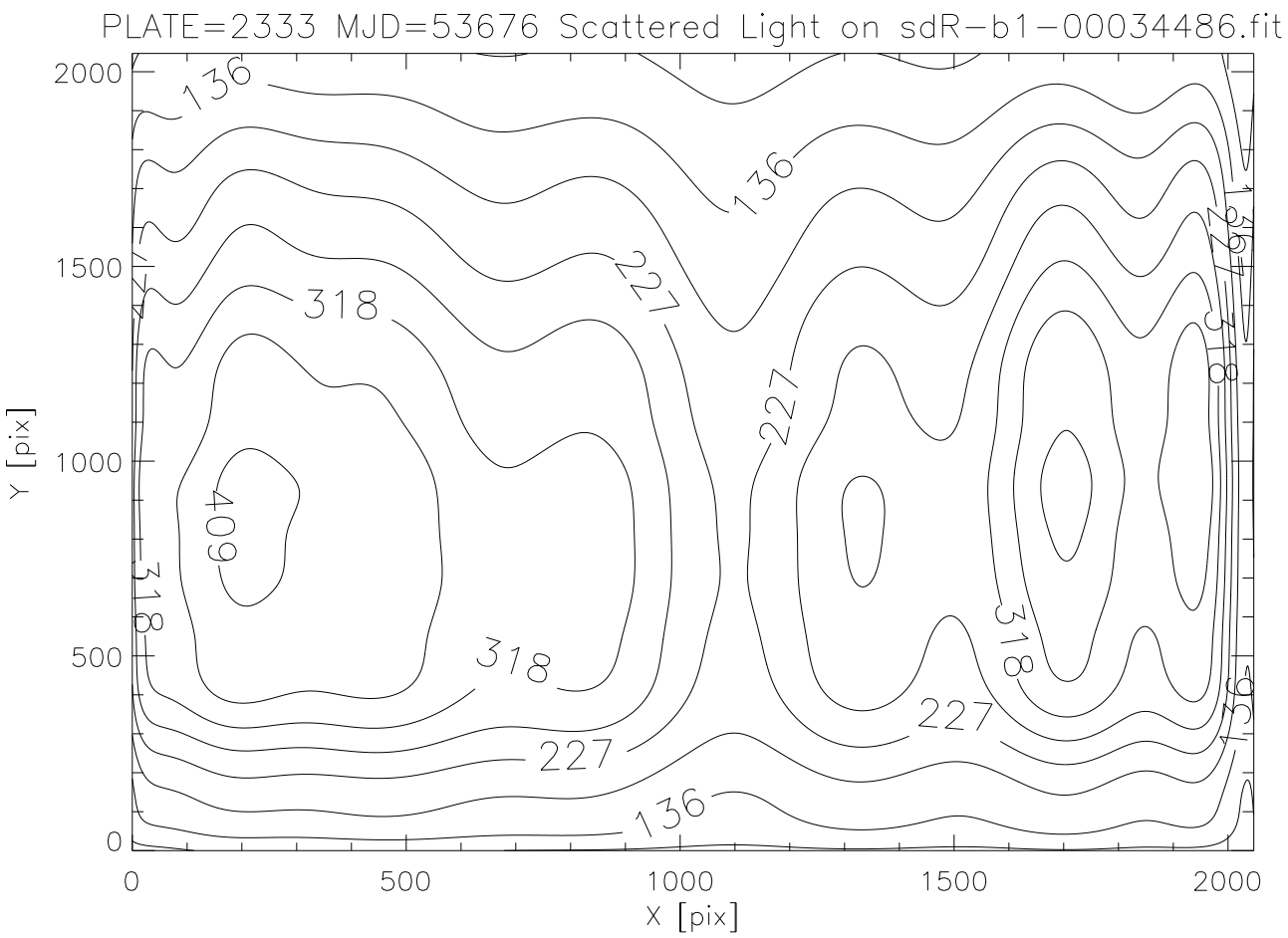

PLATE=2333 MJD=53676 sdR-b1-00034485.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 151.94 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

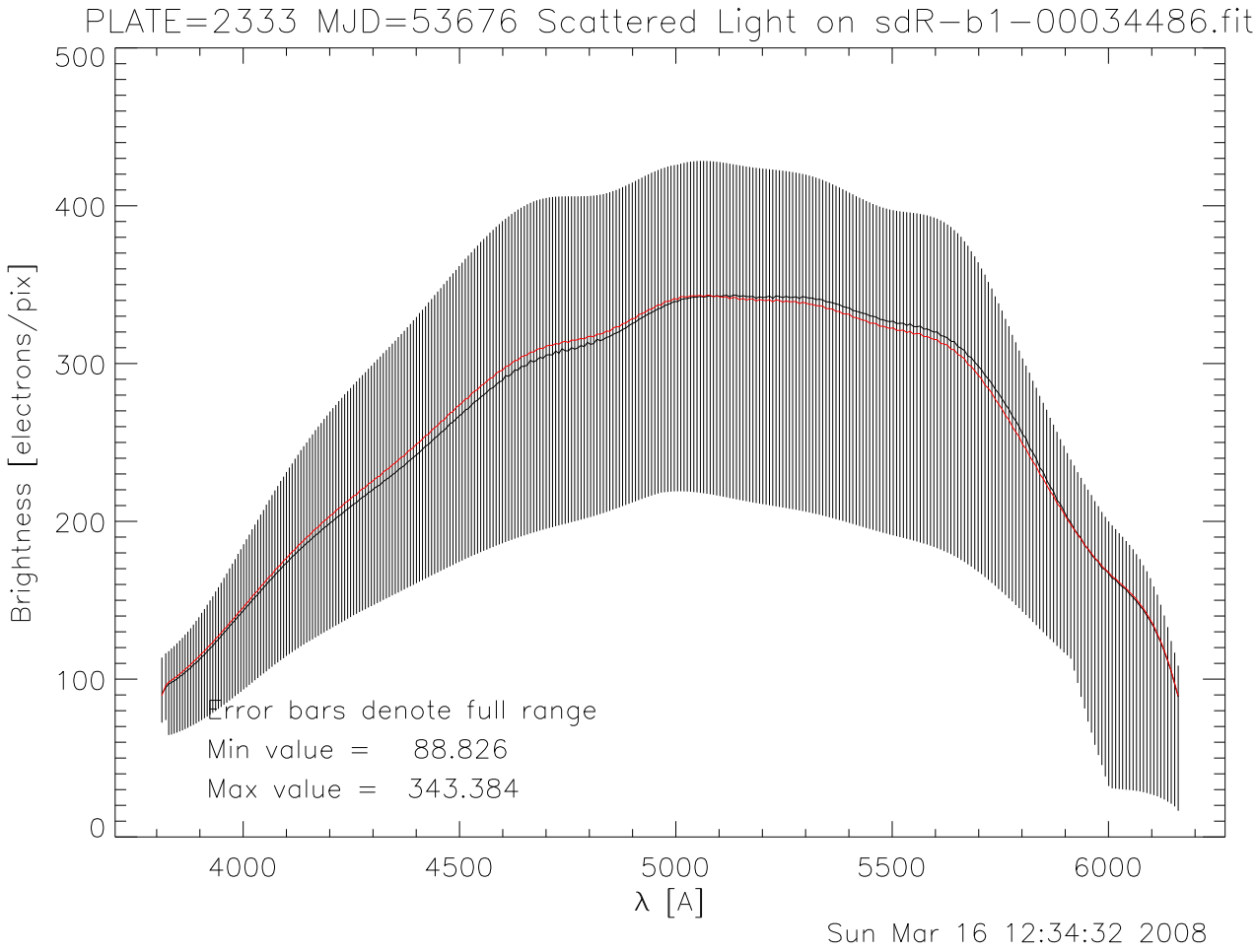

PLATE=2333 MJD=53676 sdR-b1-00034485.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 35.48 %
Flux (5578.9)/Airmass
Fiber number
Focal Distance [mm]
Airmass

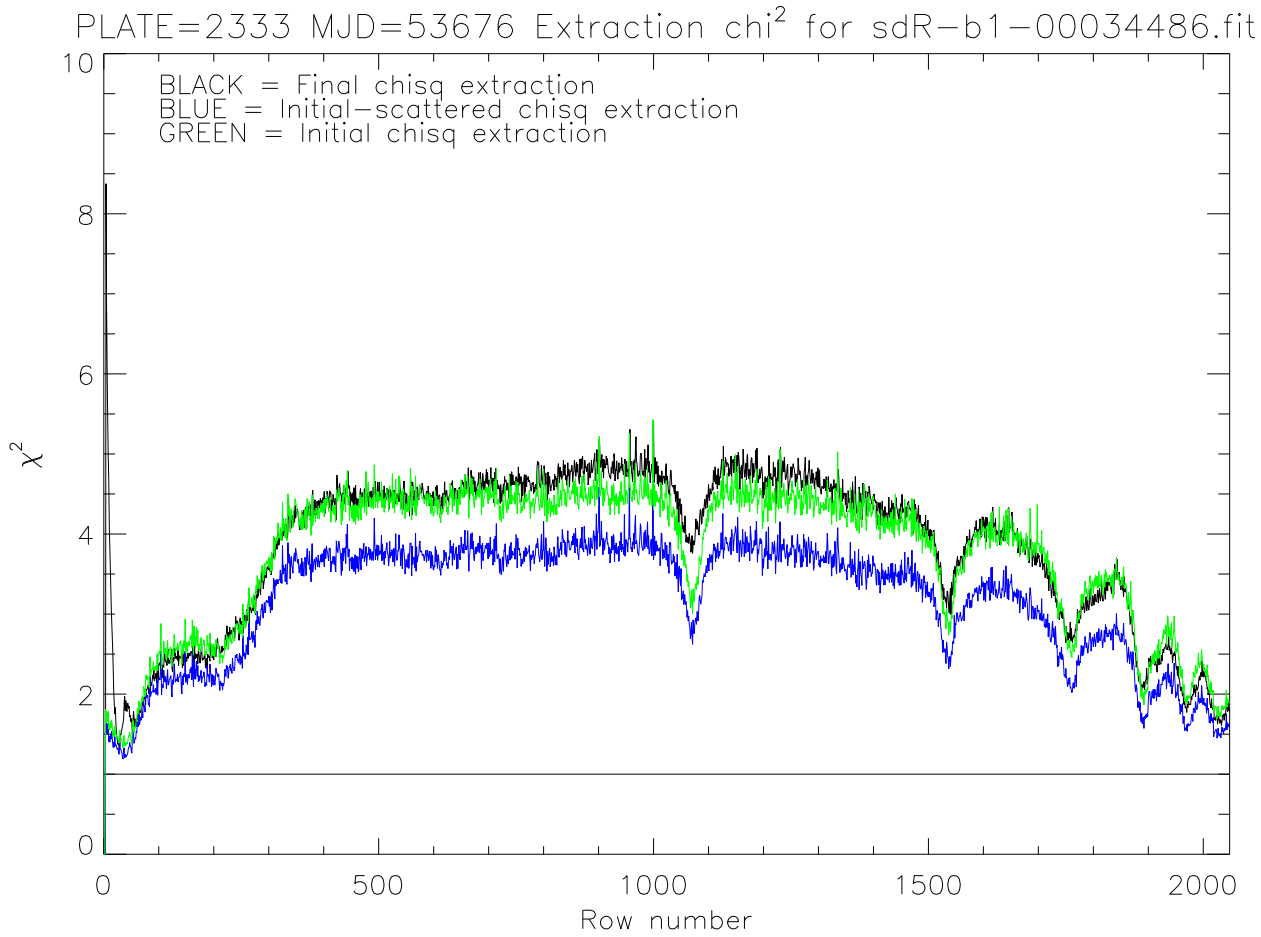

PLATE=2333 MJD=53676 Fiber-Flats for sdR-b1-00034476.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.030
Max value = 2.639
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Mar 16 12:30:01 2008

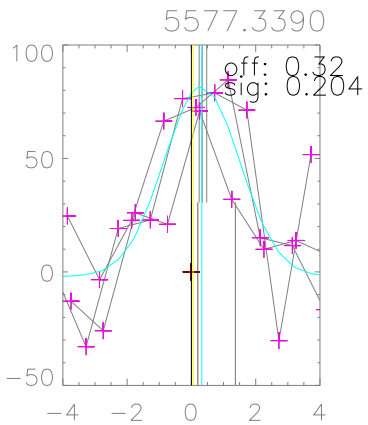

PLATE=2333 MJD=53676 Scattered Light before halo removal on sdR-b1-00034486.f
Y [pix]
X [pix]
0
500
1000
1500
2000
136
227
318
409

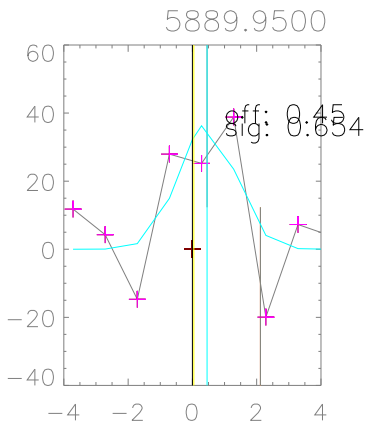

PLATE=2333 MJD=53676 Scattered Light before halo removal on sdR-b1-00034486.f
Brightness [electrons/pix]
500
400
300
200
100
0
Error bars denote full range
Min value = 108.746
Max value = 387.557
4000
4500
5000
5500
6000
λ [A]
Sun Mar 16 12:30:57 2008

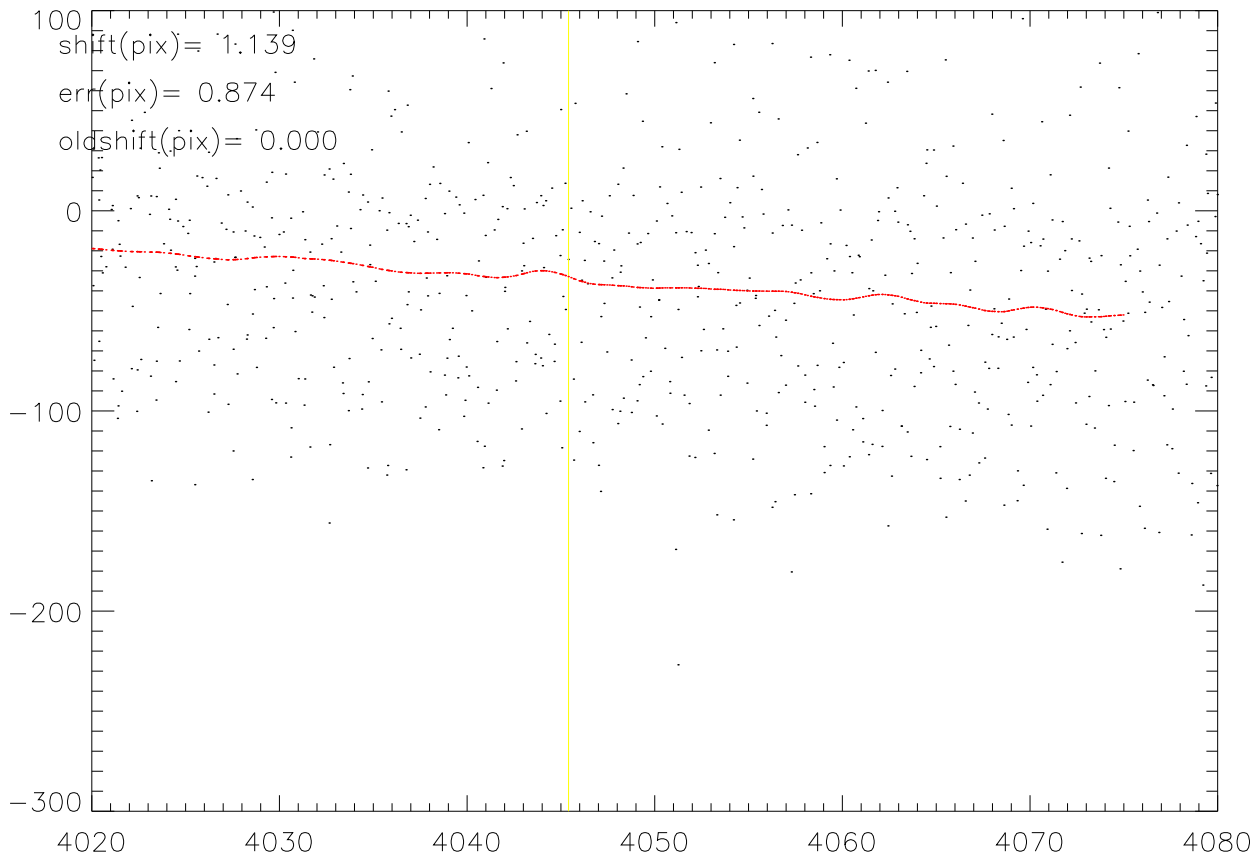

PLATE=2333 MJD=53676 Scattered Light on sdR-b1-00034486.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
136
227
318
409

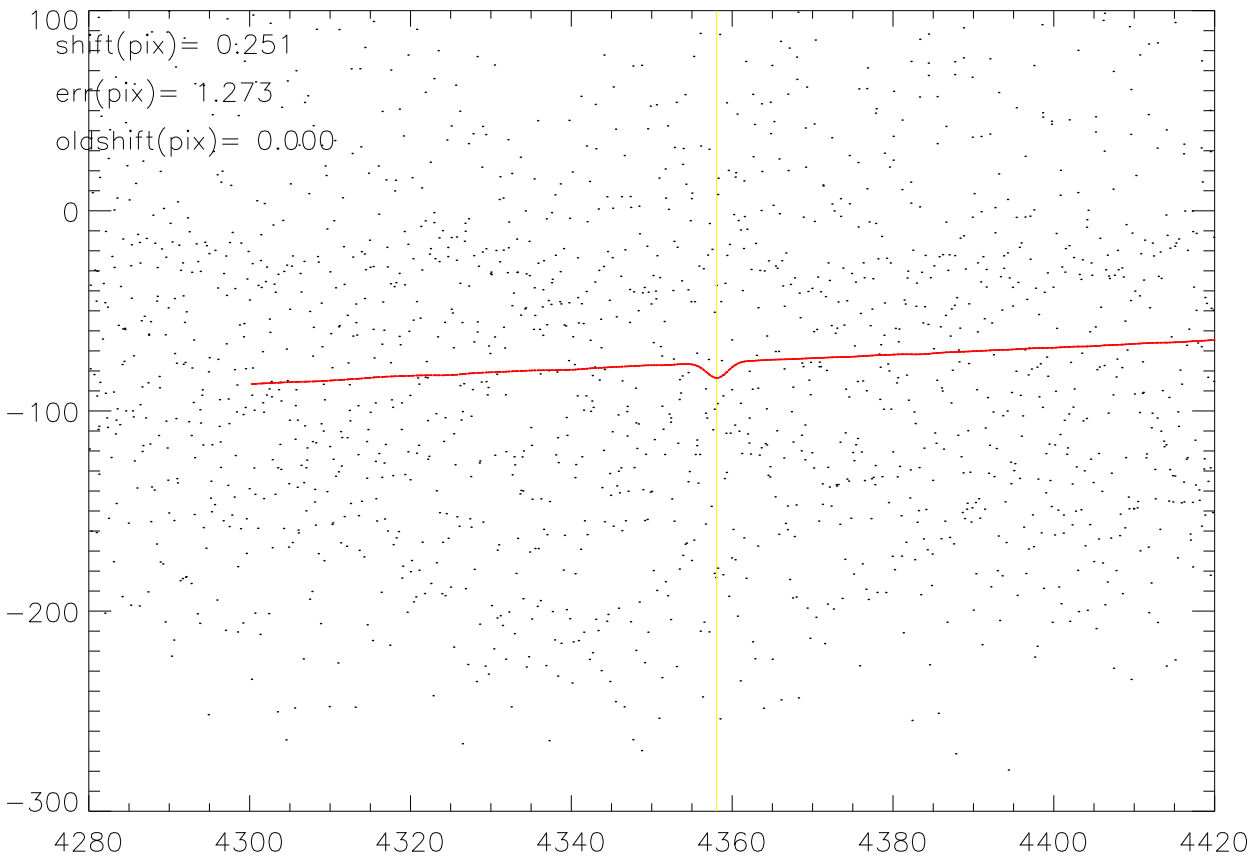

PLATE=2333 MJD=53676 Scattered Light on sdR-b1-00034486.fit
Brightness [electrons/pix]
500
400
300
200
100
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 88.826
Max value = 343.384
Sun Mar 16 12:34:32 2008

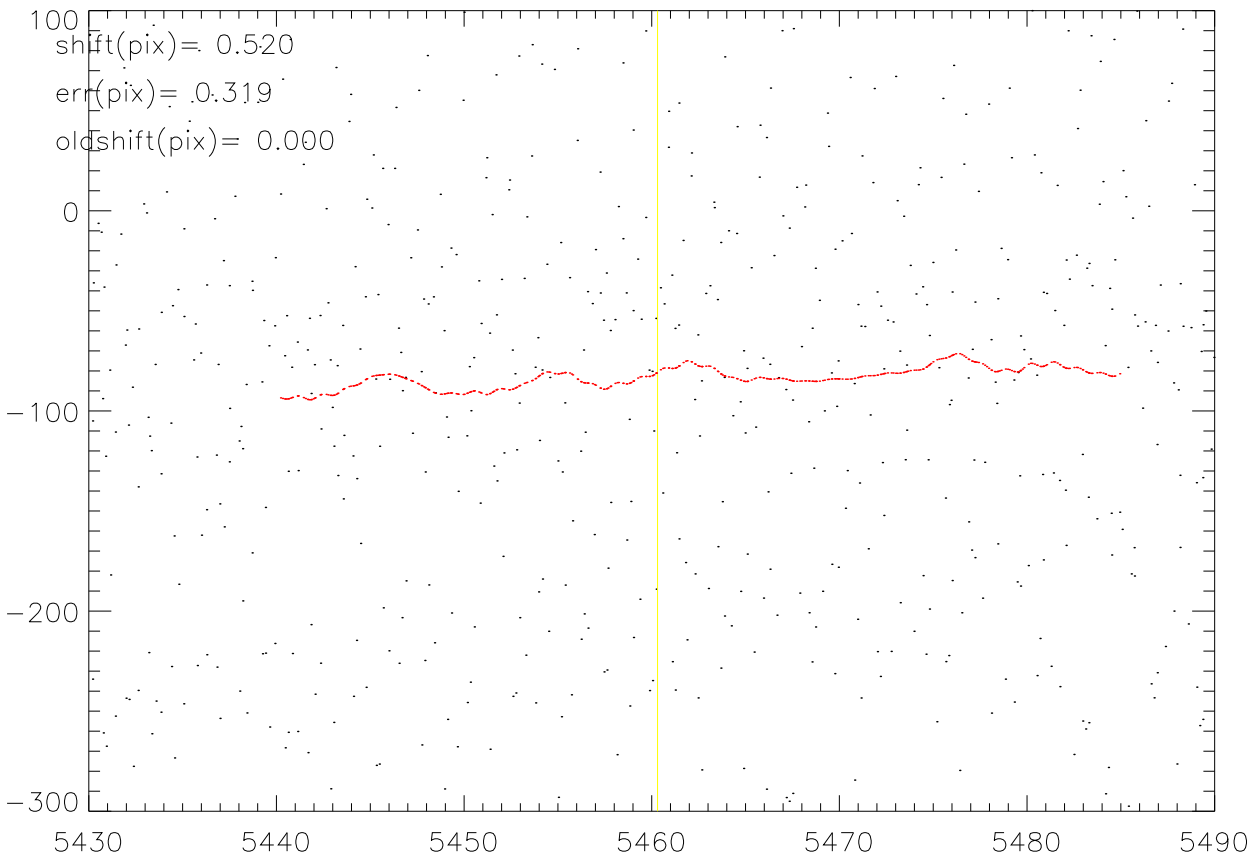

PLATE=2333 MJD=53676 Extraction chi^2 for sdR-b1-00034486.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

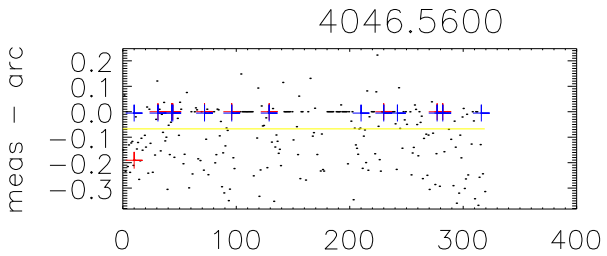

5577.3390
off: 0.32
sig: 0.204
100
50
0
−50
−4
−2
0
2
4

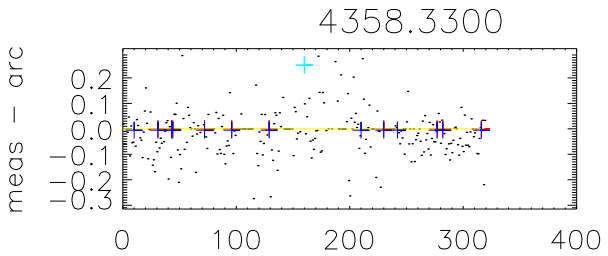

5889.9500
off: 0.45
sig: 0.654
60
40
20
0
−20
−40
−4
−2
0
2
4

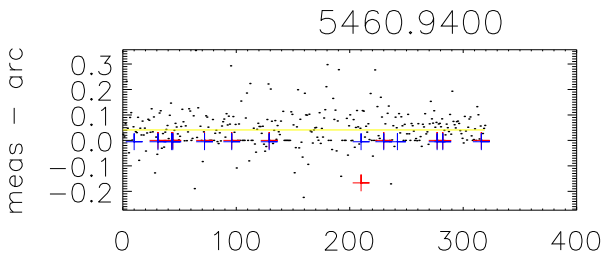

shift(pix)= 1.139
err(pix)= 0.874
oldshift(pix)= 0.000
100
0
−100
−200
−300
4020
4030
4040
4050
4060
4070
4080

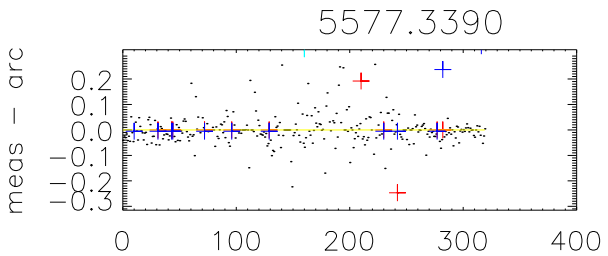

shift(pix)= 0.251
err(pix)= 1.273
oldshift(pix)= 0.000
100
0
−100
−200
−300
4280
4300
4320
4340
4360
4380
4400
4420

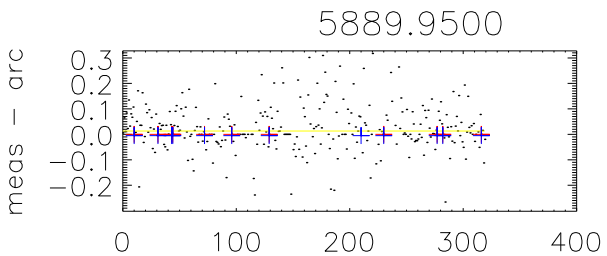

shift(pix)= 0.520
err(pix)= 0.319
oldshift(pix)= 0.000
100
0
−100
−200
−300
5430
5440
5450
5460
5470
5480
5490

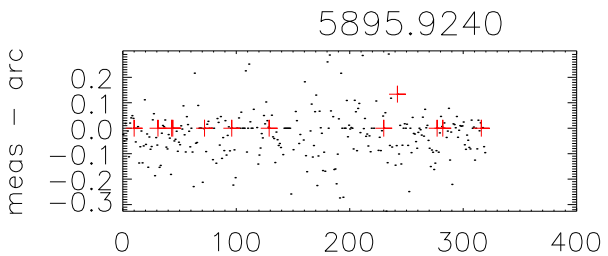

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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


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