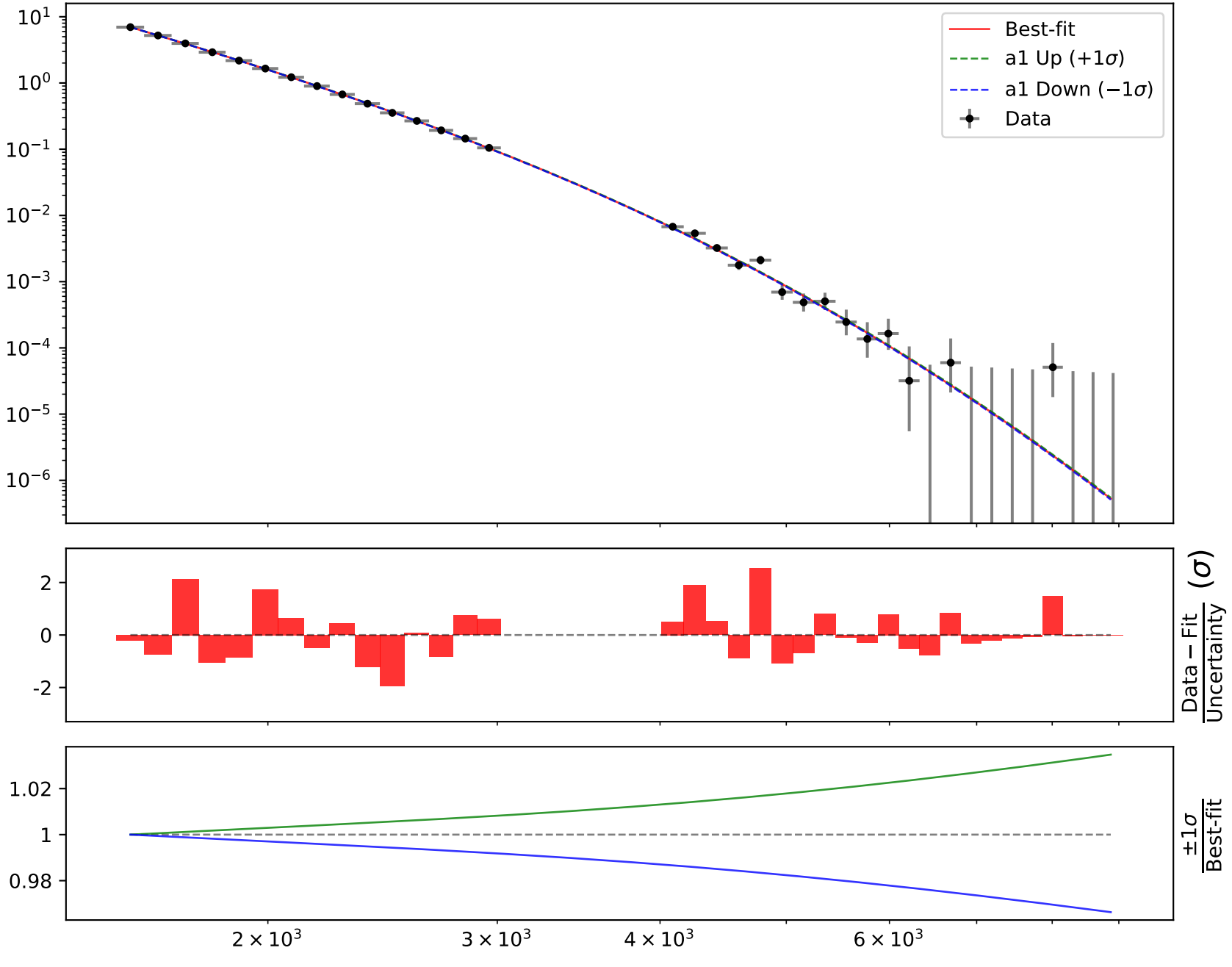
Candidate function #18

1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a2*(exp(a1**((x0 - 1568.5) * 0.000136221)) + tanh(((x0 - 1568.5) * 0.000136221)**2)))

a1 = $0.000112105^{+2.205e-06(1.97\%)}_{-2.168e-06(1.93\%)}$, a2 = $2.56486^{+0.006562(0.256\%)}_{-0.00655(0.255\%)}$

Candidate #18

χ^2/NDF = 36.11/35, RMSE = 0.008884, R2 = 1.0

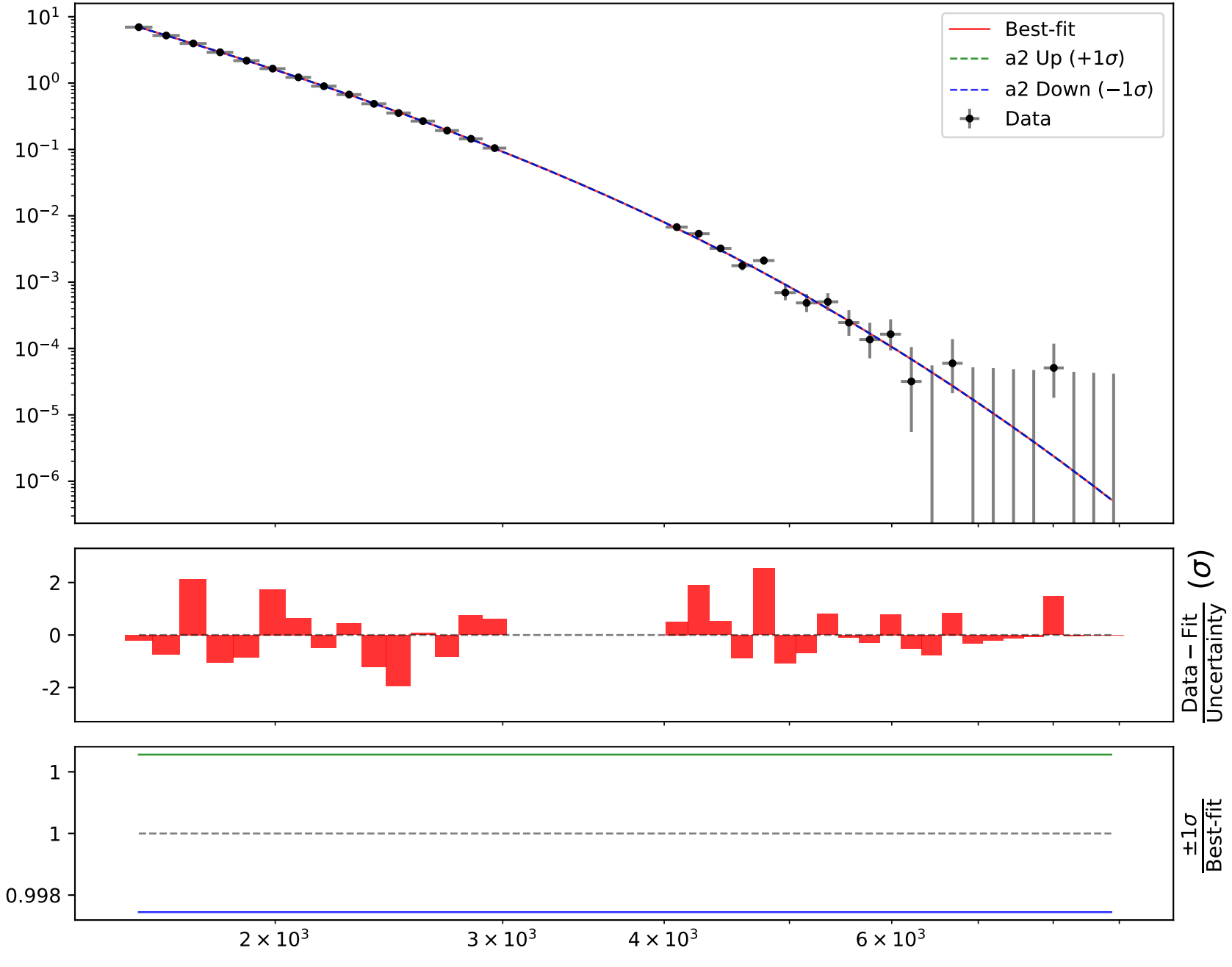


1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a2*(exp(a1**((x0 - 1568.5) * 0.000136221)) + tanh(((x0 - 1568.5) * 0.000136221)**2)))

$a1 = 0.000112105^{+2.205e-06(1.97\%)}_{-2.168e-06(1.93\%)}$, **$a2 = 2.56486^{+0.006562(0.256\%)}_{-0.00655(0.255\%)}$**

Candidate #18

χ^2/NDF = 36.11/35, RMSE = 0.008884, R2 = 1.0



Candidate function #17

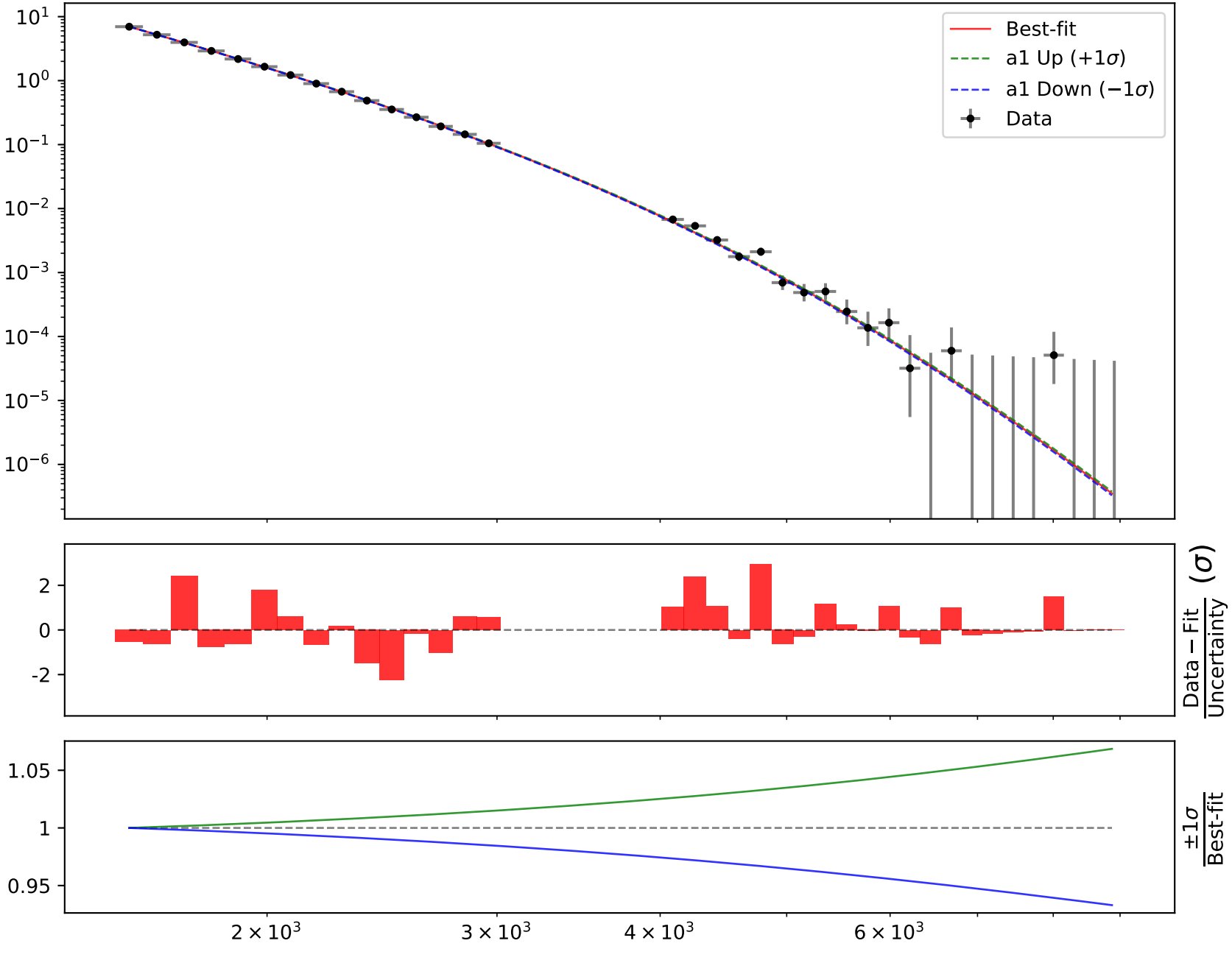
1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a3*exp((a1*((x0 - 1568.5) * 0.000136221) + a2)**((x0 - 1568.5) * 0.000136221)))

a1 = $0.000122356^{+4.714e-06(3.85\%)}_{-4.74e-06(3.87\%)}$, a2 = $7.65356e-05^{+2.262e-05(29.6\%)}_{-1.759e-05(23.0\%)}$,

Candidate #17

a3 = $2.56787^{+0.009163(0.357\%)}_{-0.009122(0.355\%)}$

χ^2/NDF = 44.48/34, RMSE = 0.009543, R2 = 1.0



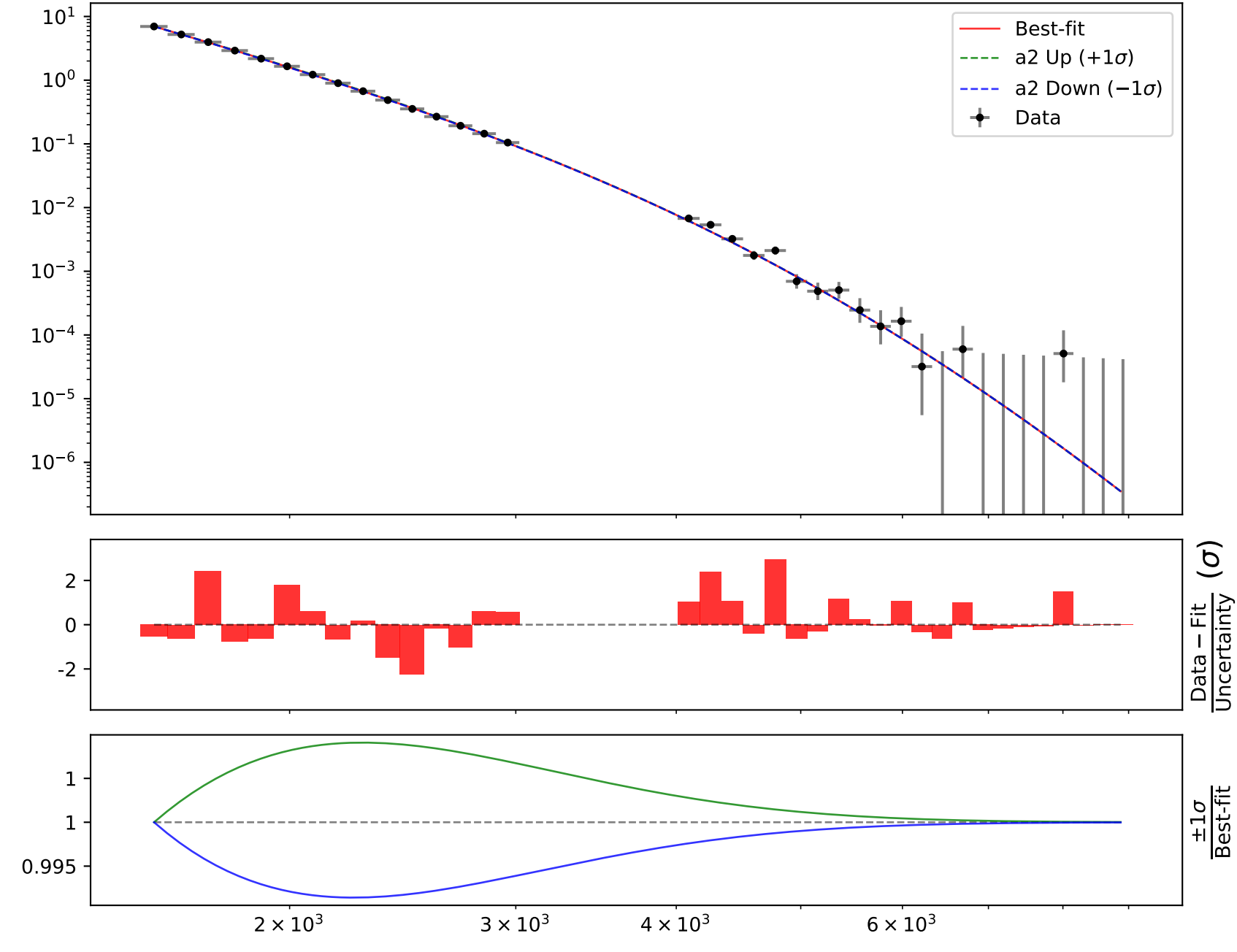
1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a3*exp((a1*((x0 - 1568.5) * 0.000136221) + a2)**((x0 - 1568.5) * 0.000136221)))

$a1 = 0.000122356^{+4.714e-06(3.85\%)}_{-4.74e-06(3.87\%)}$, **$a2 = 7.65356e-05^{+2.262e-05(29.6\%)}_{-1.759e-05(23.0\%)}$**,

$a3 = 2.56787^{+0.009163(0.357\%)}_{-0.009122(0.355\%)}$

Candidate #17

χ^2/NDF = 44.48/34, RMSE = 0.009543, R2 = 1.0



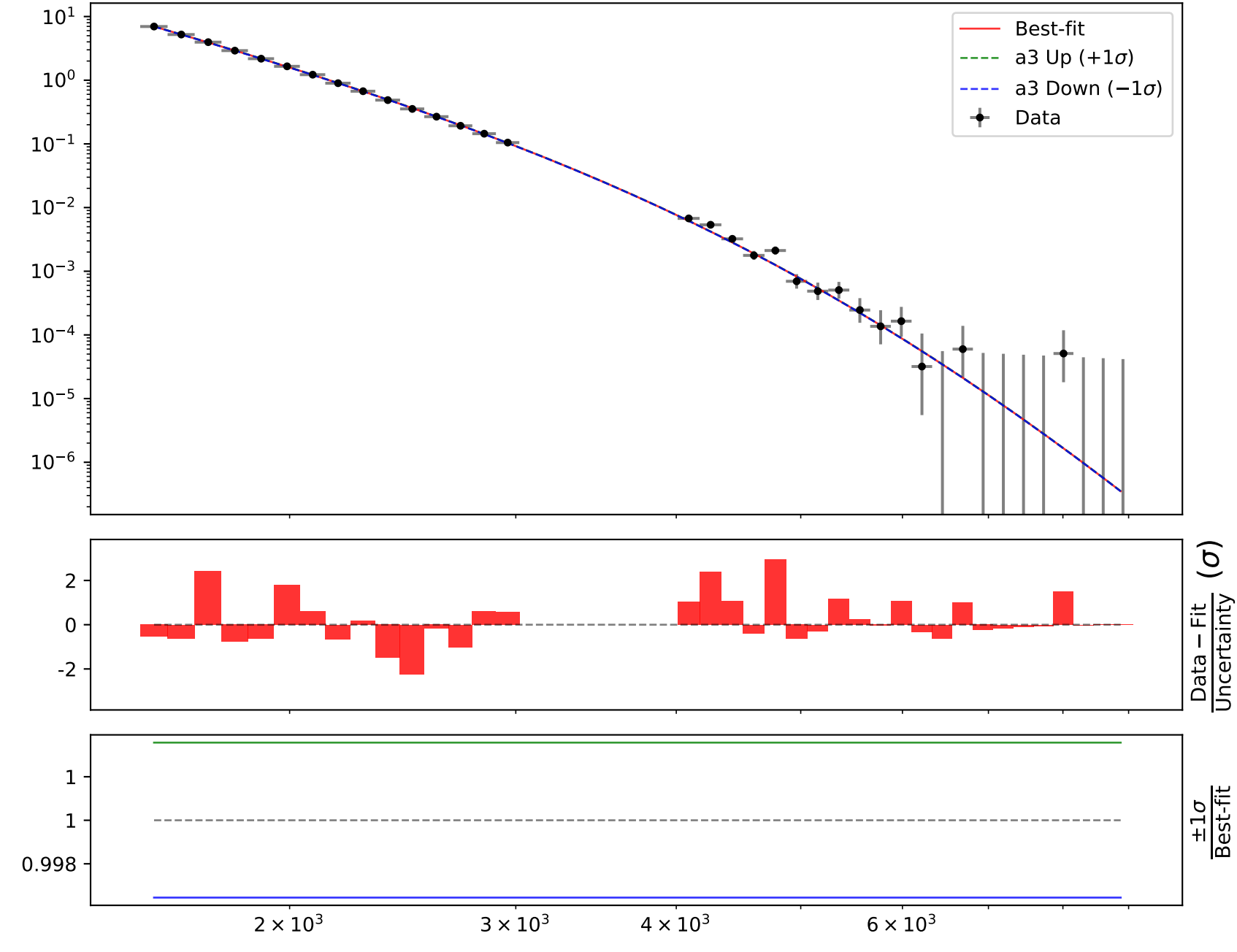
1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a3*exp((a1*((x0 - 1568.5) * 0.000136221) + a2)**((x0 - 1568.5) * 0.000136221)))

$a1 = 0.000122356^{+4.714e-06(3.85\%)}_{-4.74e-06(3.87\%)}$, $a2 = 7.65356e-05^{+2.262e-05(29.6\%)}_{-1.759e-05(23.0\%)}$,

$a3 = 2.56787^{+0.009163(0.357\%)}_{-0.009122(0.355\%)}$

Candidate #17

χ^2/NDF = 44.48/34, RMSE = 0.009543, R2 = 1.0



Candidate function #16

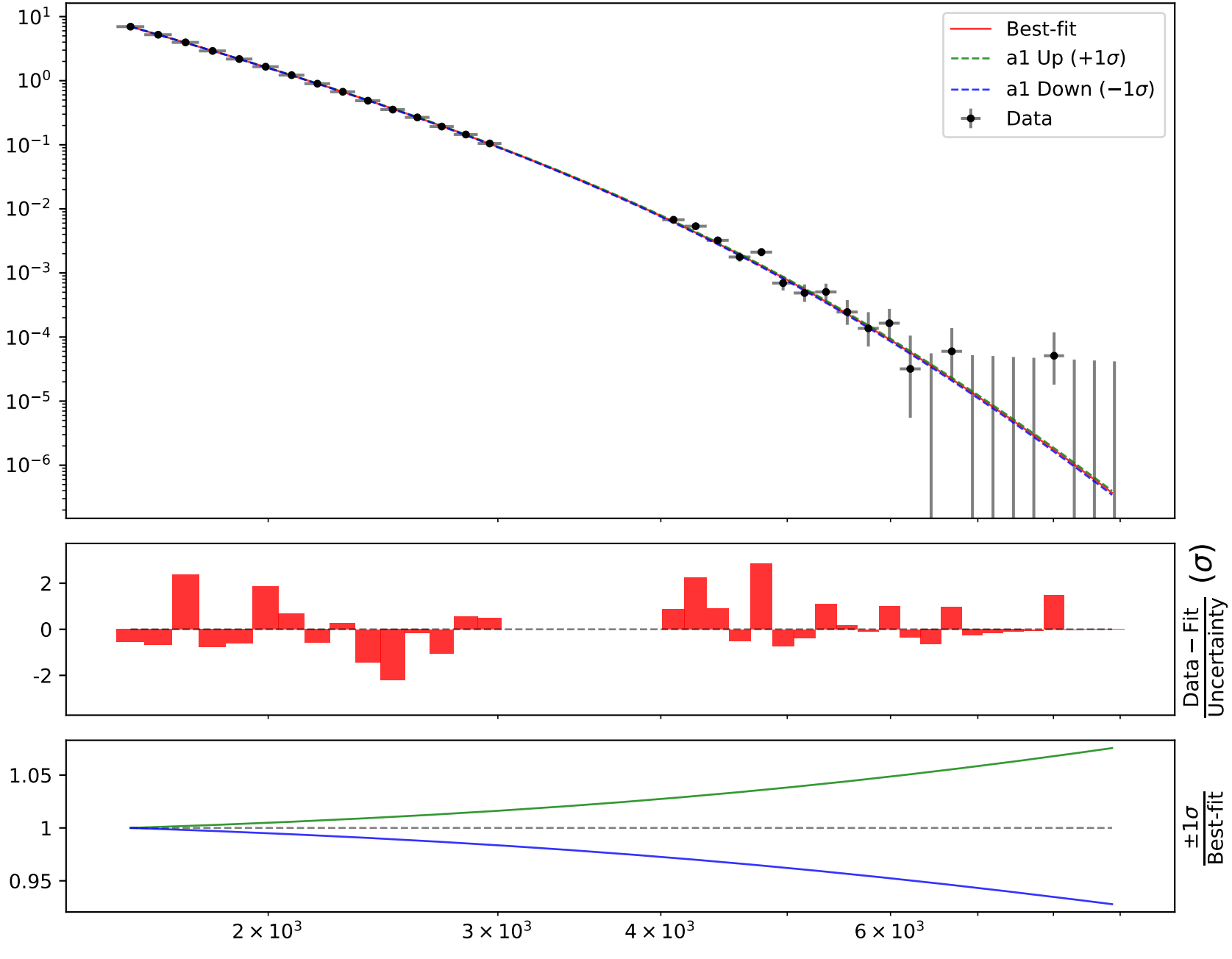
1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a3*exp(a2**((x0 - 1568.5) * 0.000136221)))

a1 = $0.000126193^{+5.347e-06(4.24\%)}_{-5.27e-06(4.18\%)}$, a2 = $7.42289e-05^{+2.104e-05(28.3\%)}_{-1.635e-05(22.0\%)}$,

Candidate #16

a3 = $2.56798^{+0.00886(0.345\%)}_{-0.008837(0.344\%)}$

χ^2/NDF = 42.34/34, RMSE = 0.009516, R2 = 1.0



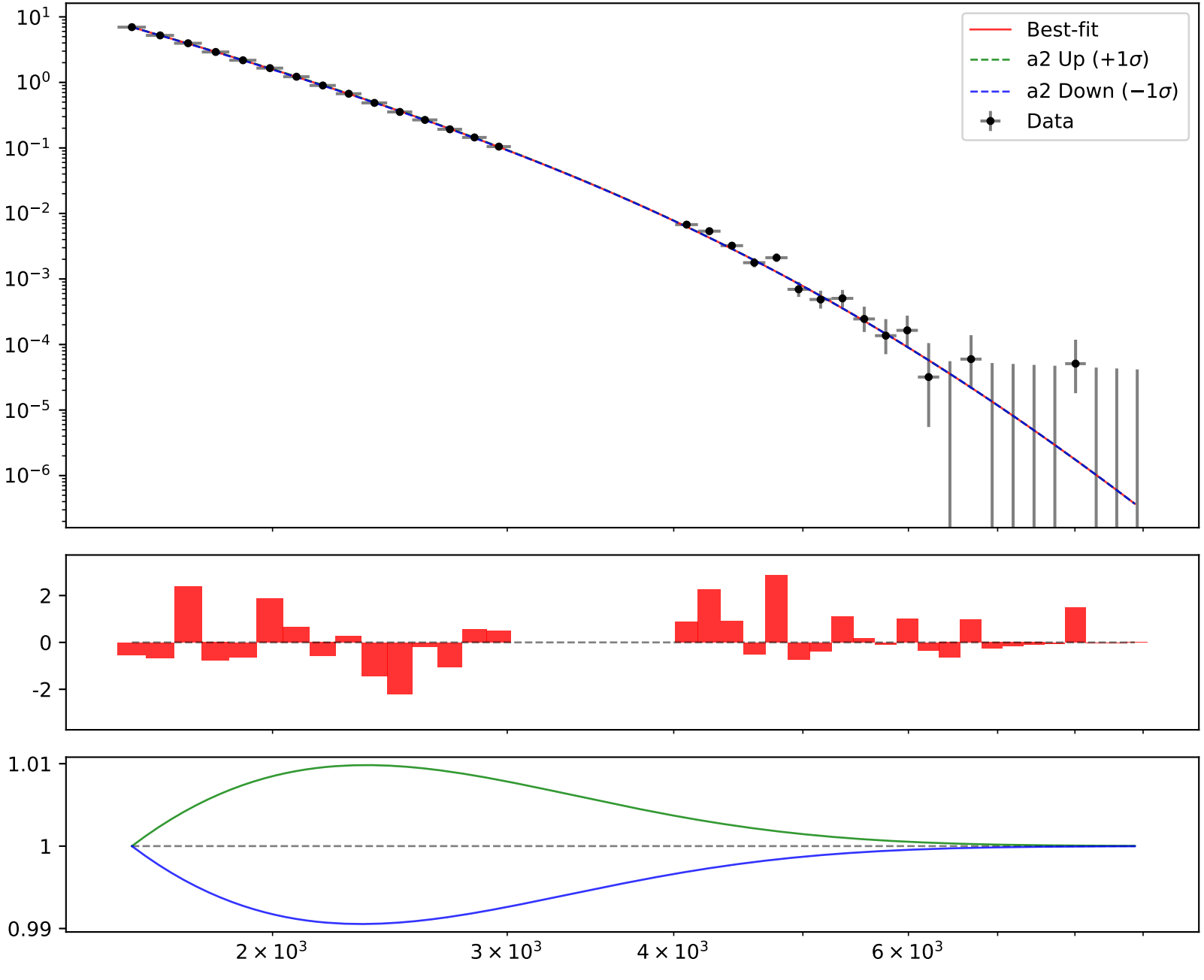
1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a3*exp(a2**((x0 - 1568.5) * 0.000136221)))

$a1 = 0.000126193^{+5.347e-06(4.24\%)}_{-5.27e-06(4.18\%)}$, **$a2 = 7.42289e-05^{+2.104e-05(28.3\%)}_{-1.635e-05(22.0\%)}$**,

$a3 = 2.56798^{+0.00886(0.345\%)}_{-0.008837(0.344\%)}$

Candidate #16

χ^2/NDF = 42.34/34, RMSE = 0.009516, R2 = 1.0



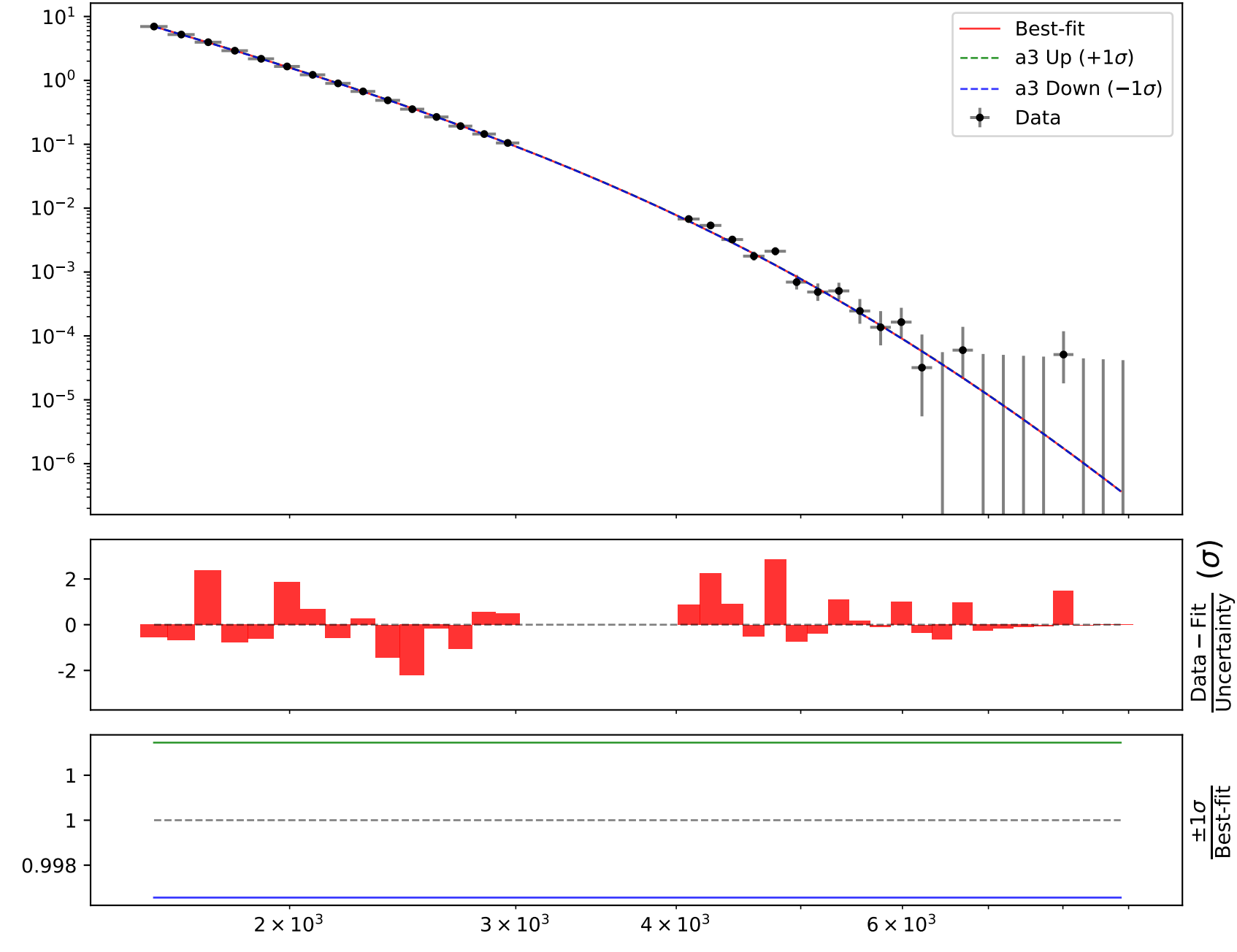
1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a3*exp(a2**((x0 - 1568.5) * 0.000136221)))

$a1 = 0.000126193^{+5.347e-06(4.24\%)}_{-5.27e-06(4.18\%)}$, $a2 = 7.42289e-05^{+2.104e-05(28.3\%)}_{-1.635e-05(22.0\%)}$,

Candidate #16

$a3 = 2.56798^{+0.00886(0.345\%)}_{-0.008837(0.344\%)}$

χ^2/NDF = 42.34/34, RMSE = 0.009516, R2 = 1.0



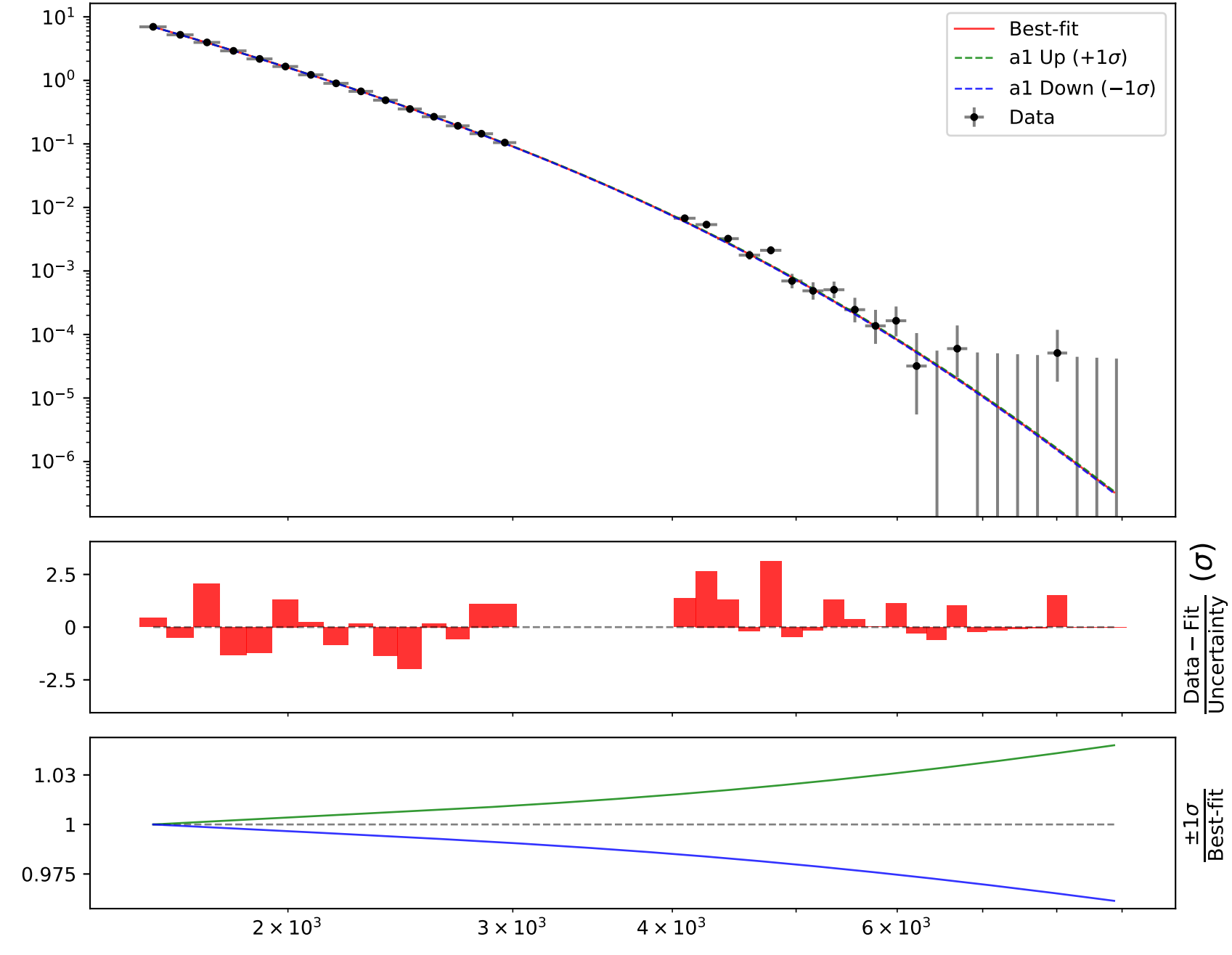
Candidate function #15

1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a2*exp(a1**((x0 - 1568.5) * 0.000136221)))

a1 = $0.000117716^{+2.66e-06(2.26\%)}_{-2.609e-06(2.22\%)}$, a2 = $2.55861^{+0.007476(0.292\%)}_{-0.007466(0.292\%)}$

Candidate #15

χ^2/NDF = 46.75/35, RMSE = 0.008894, R2 = 1.0

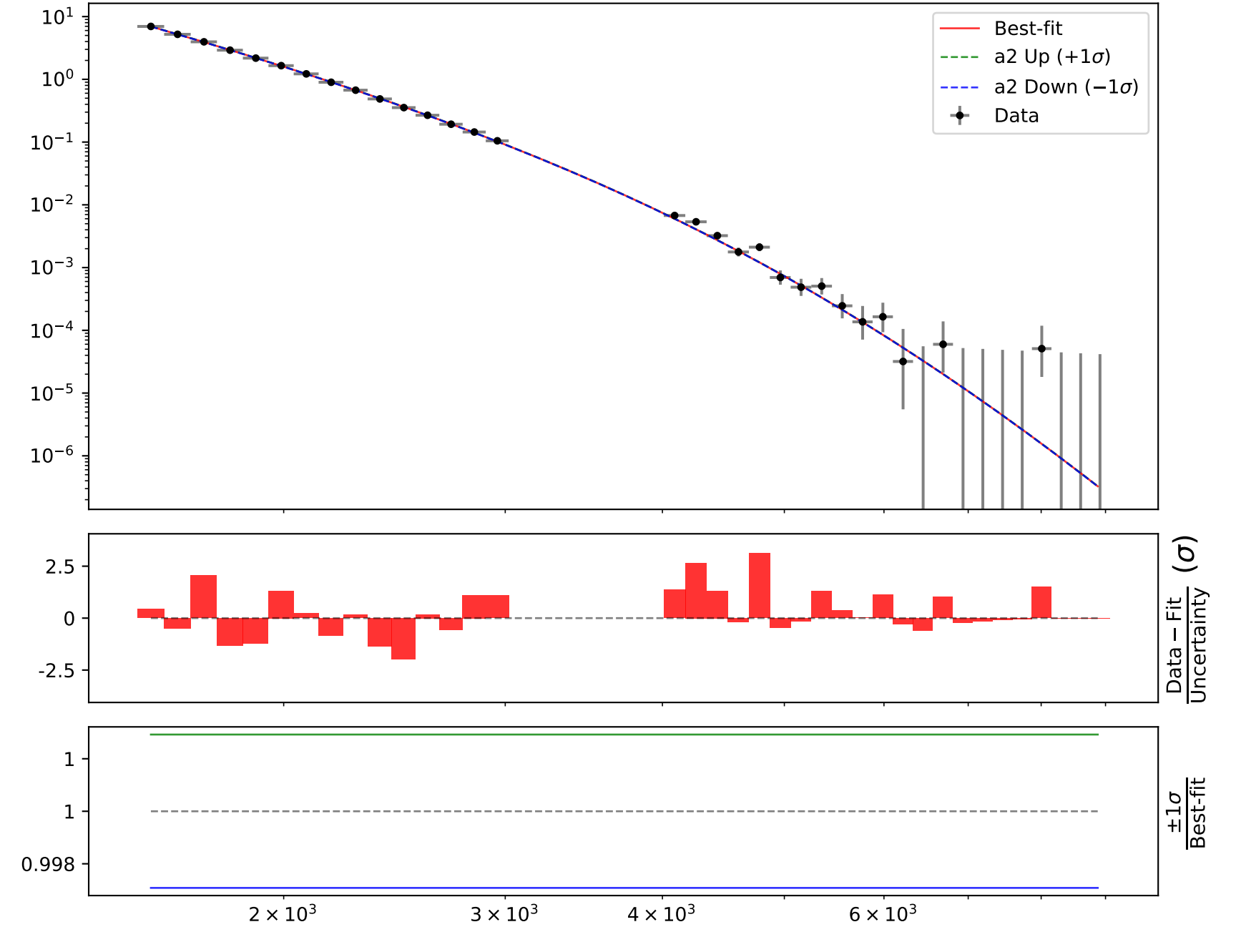


1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))*a2*exp(a1**((x0 - 1568.5) * 0.000136221)))

$a1 = 0.000117716^{+2.66e-06(2.26\%)}_{-2.609e-06(2.22\%)}$, **$a2 = 2.55861^{+0.007476(0.292\%)}_{-0.007466(0.292\%)}$**

Candidate #15

χ^2/NDF = 46.75/35, RMSE = 0.008894, R2 = 1.0



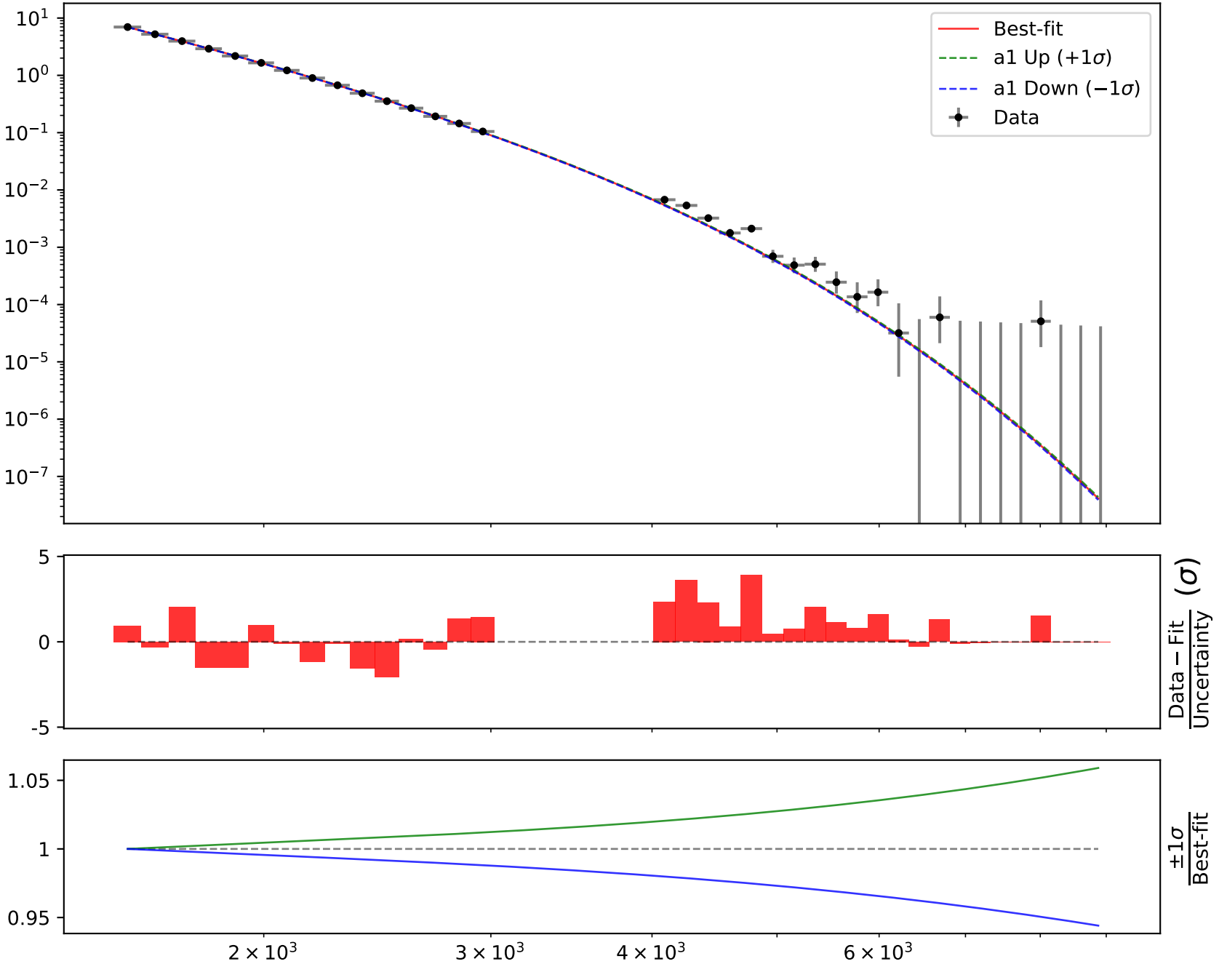
Candidate function #14

1.0*(a1**(2*((x0 - 1568.5) * 0.000136221))*a2*exp(a1**((x0 - 1568.5) * 0.000136221)))

a1 = 0.000121491 $^{+3.551e-06(2.92\%)}_{-3.462e-06(2.85\%)}$, a2 = 2.55384 $^{+0.009593(0.376\%)}_{-0.009577(0.375\%)}$

Candidate #14

χ^2/NDF = 76.63/35, RMSE = 0.009771, R2 = 1.0

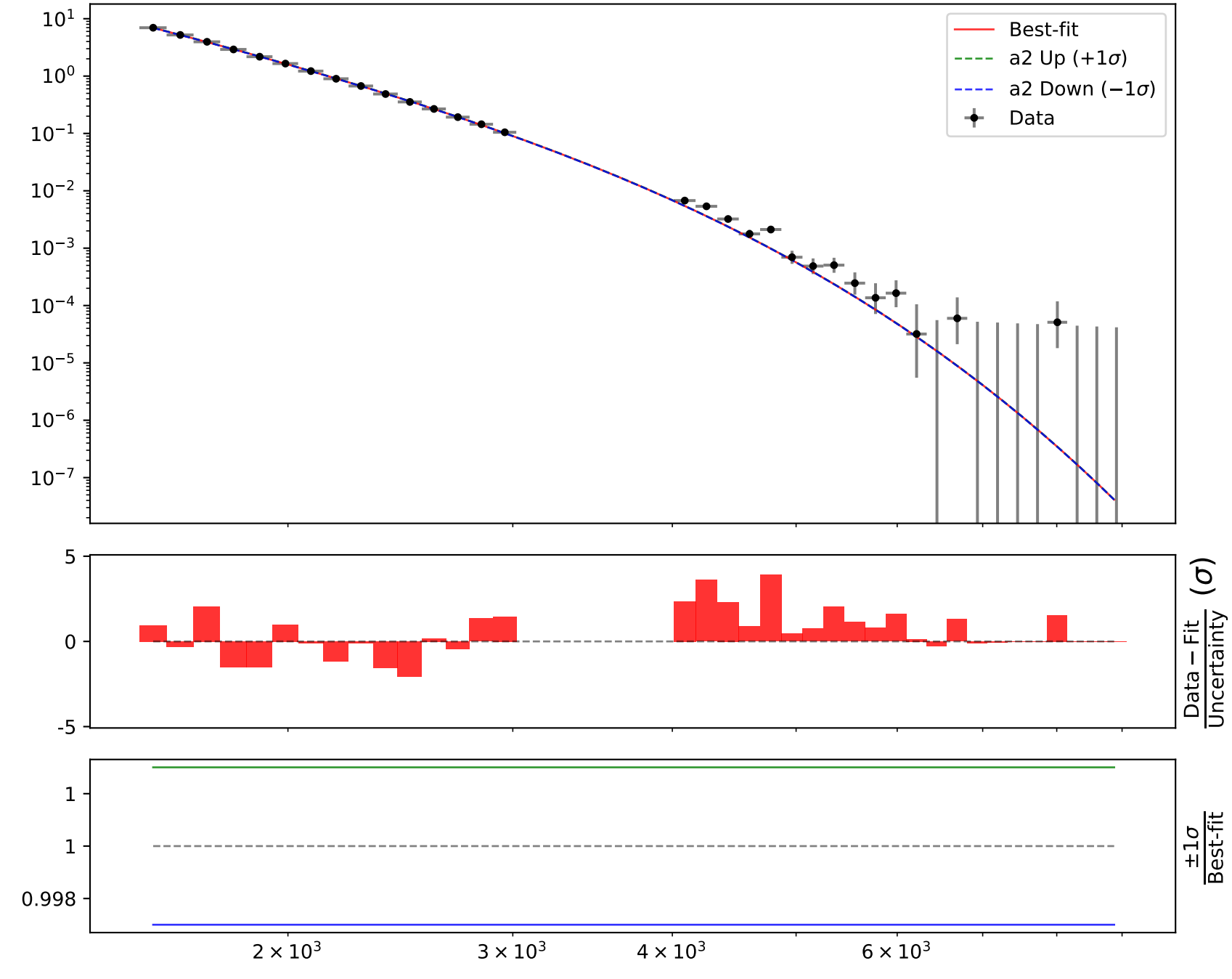


1.0*(a1**(2*((x0 - 1568.5) * 0.000136221))*a2*exp(a1**((x0 - 1568.5) * 0.000136221)))

$a1 = 0.000121491^{+3.551e-06(2.92\%)}_{-3.462e-06(2.85\%)}$, **$a2 = 2.55384^{+0.009593(0.376\%)}_{-0.009577(0.375\%)}$**

Candidate #14

χ^2/NDF = 76.63/35, RMSE = 0.009771, R2 = 1.0



Candidate function #13

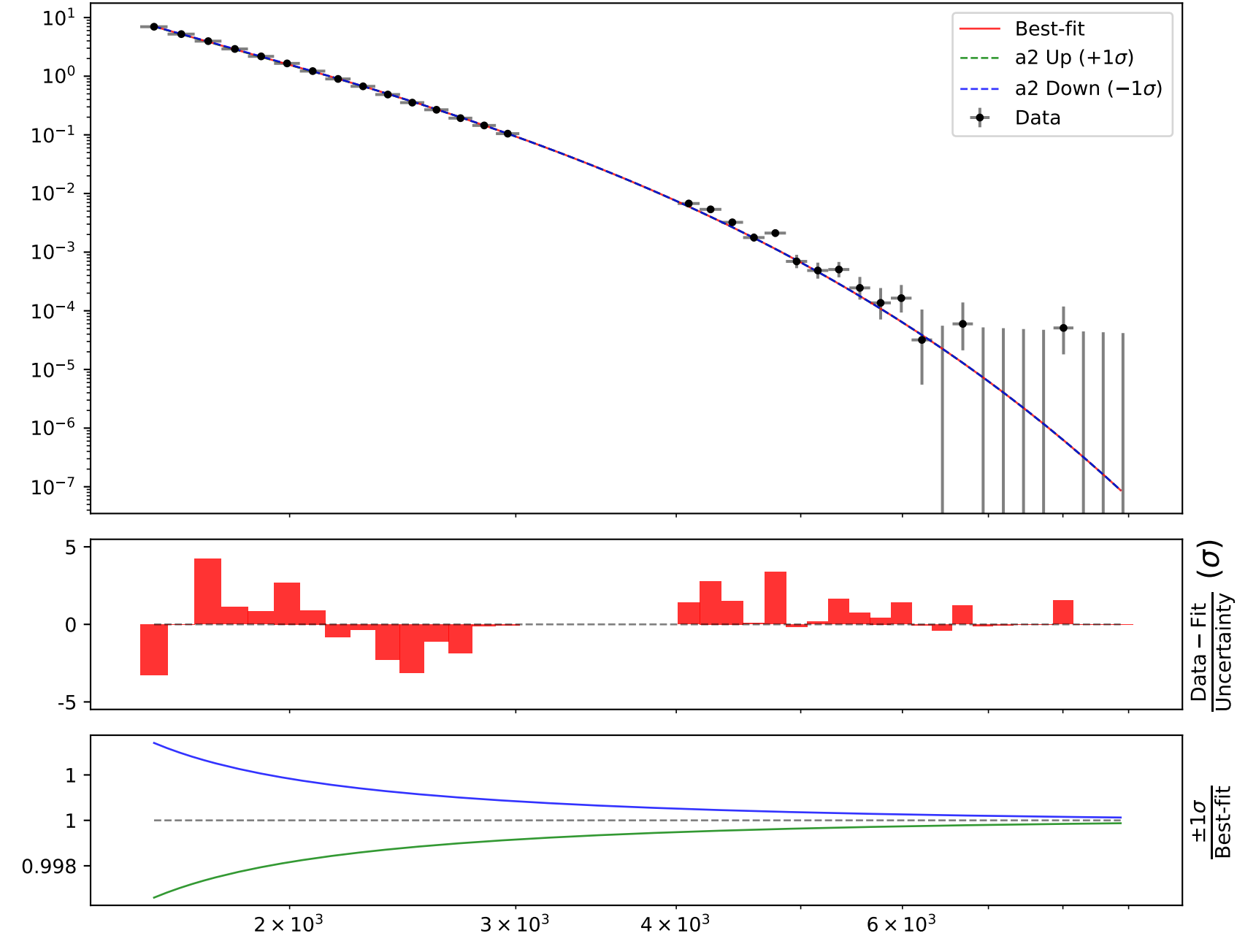
1.0*(a1**(a3*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)*exp(((x0 - 1568.5) * 0.000136221)) + ((x0 - 1568.5) * 0.000136221)))

$a1 = 8.77e-05$, $\mathbf{a2 = 0.141827^{+0.0006052(0.427\%)}_{-0.0006015(0.424\%)}}$,

$a3 = 1.60467^{+0.006365(0.397\%)}_{-0.006339(0.395\%)}$

Candidate #13

χ^2/NDF = 91.91/35, RMSE = 0.02035, R2 = 0.9998



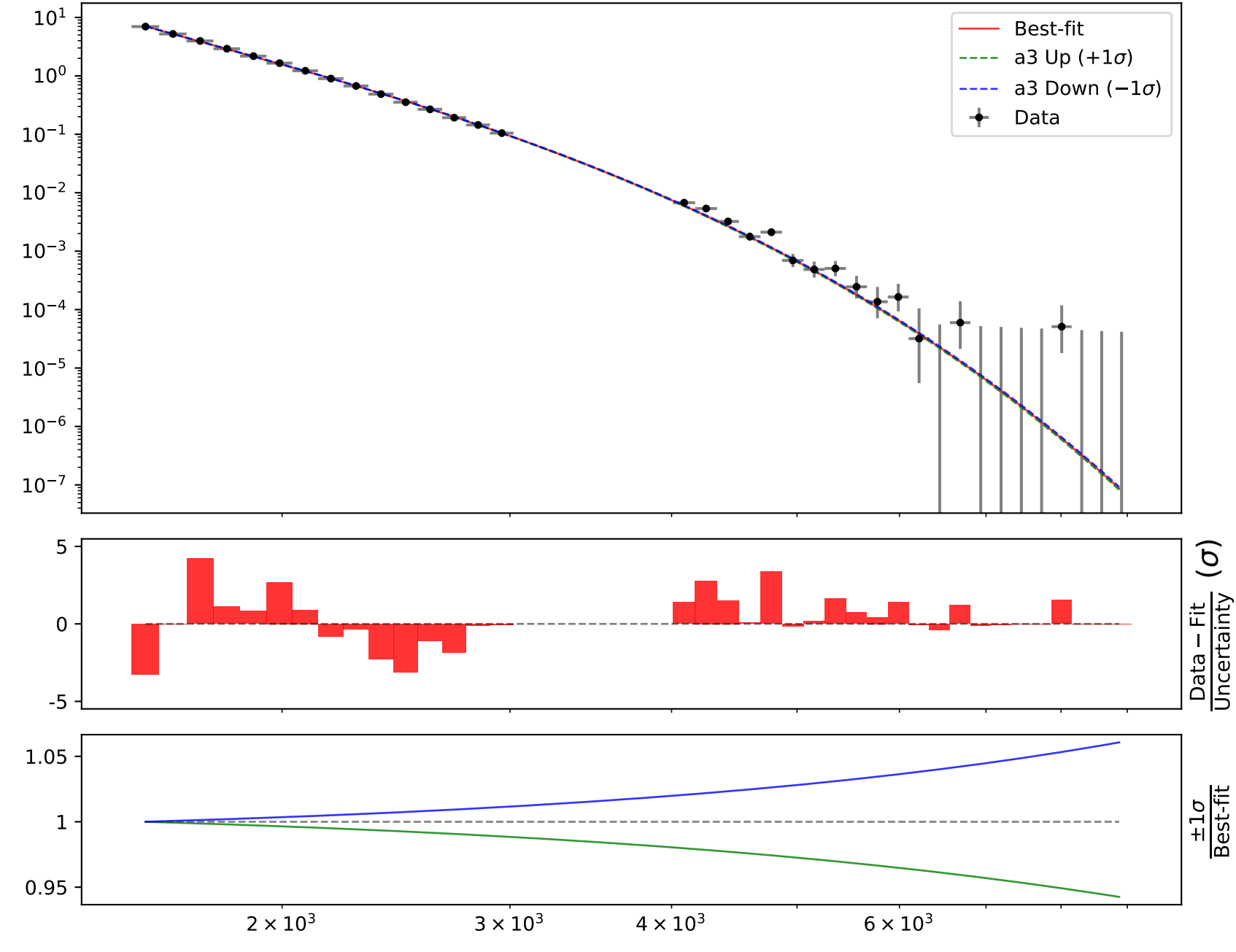
1.0*(a1**(a3*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)*exp(((x0 - 1568.5) * 0.000136221)) + ((x0 - 1568.5) * 0.000136221)))

$a1 = 8.77e-05$, $a2 = 0.141827^{+0.0006052(0.427\%)}_{-0.0006015(0.424\%)}$,

$a3 = 1.60467^{+0.006365(0.397\%)}_{-0.006339(0.395\%)}$

Candidate #13

χ^2/NDF = 91.91/35, RMSE = 0.02035, R2 = 0.9998



Candidate function #12

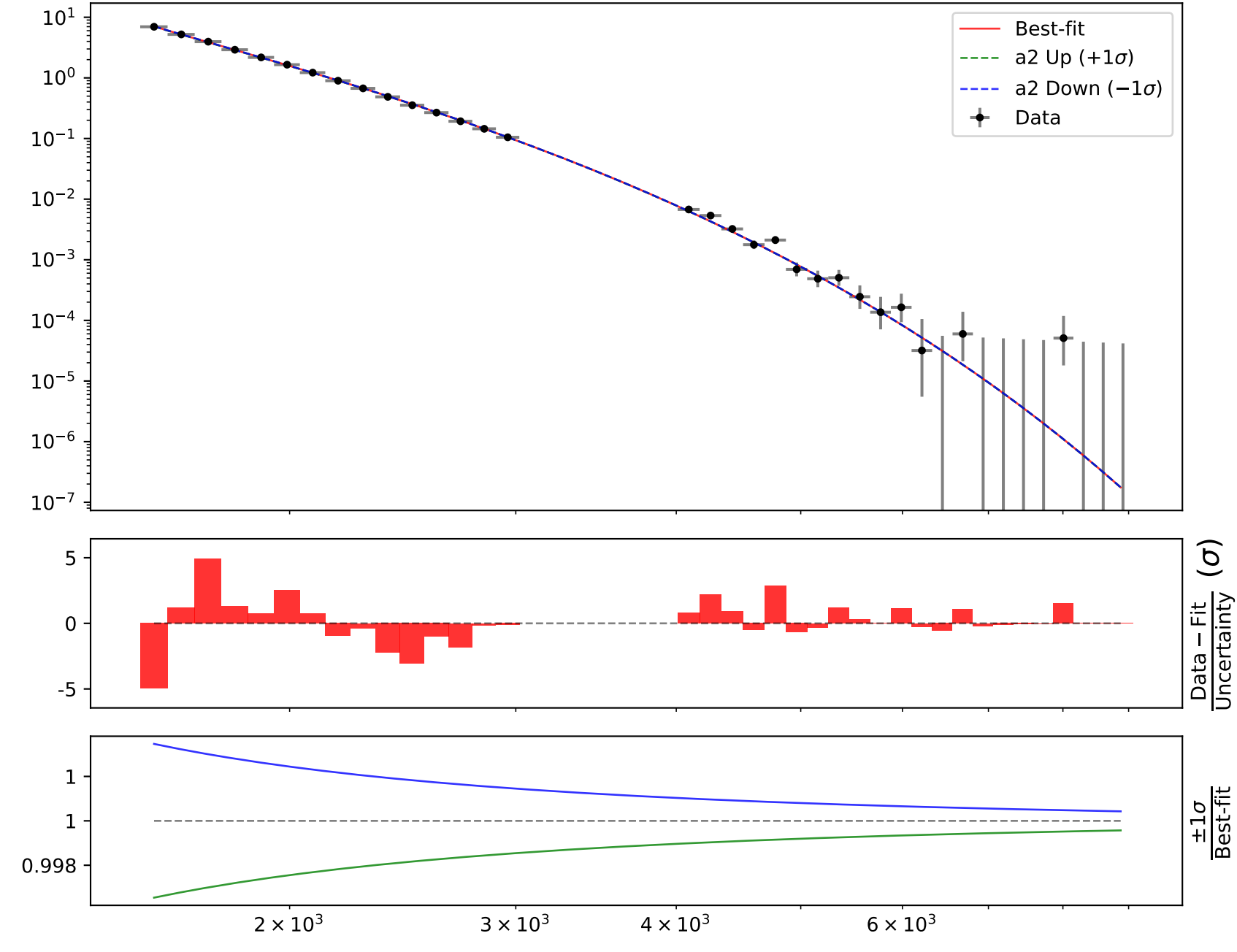
1.0*((a1*tanh(((x0 - 1568.5) * 0.000136221)))**(a3*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 9.09e-05$, $\mathbf{a2 = 0.140958^{+0.0006122(0.434\%)}_{-0.0006077(0.431\%)}}$,

$a3 = 1.61808^{+0.005732(0.354\%)}_{-0.005709(0.353\%)}$

Candidate #12

χ^2/NDF = 101.3/35, RMSE = 0.02723, R2 = 0.9997



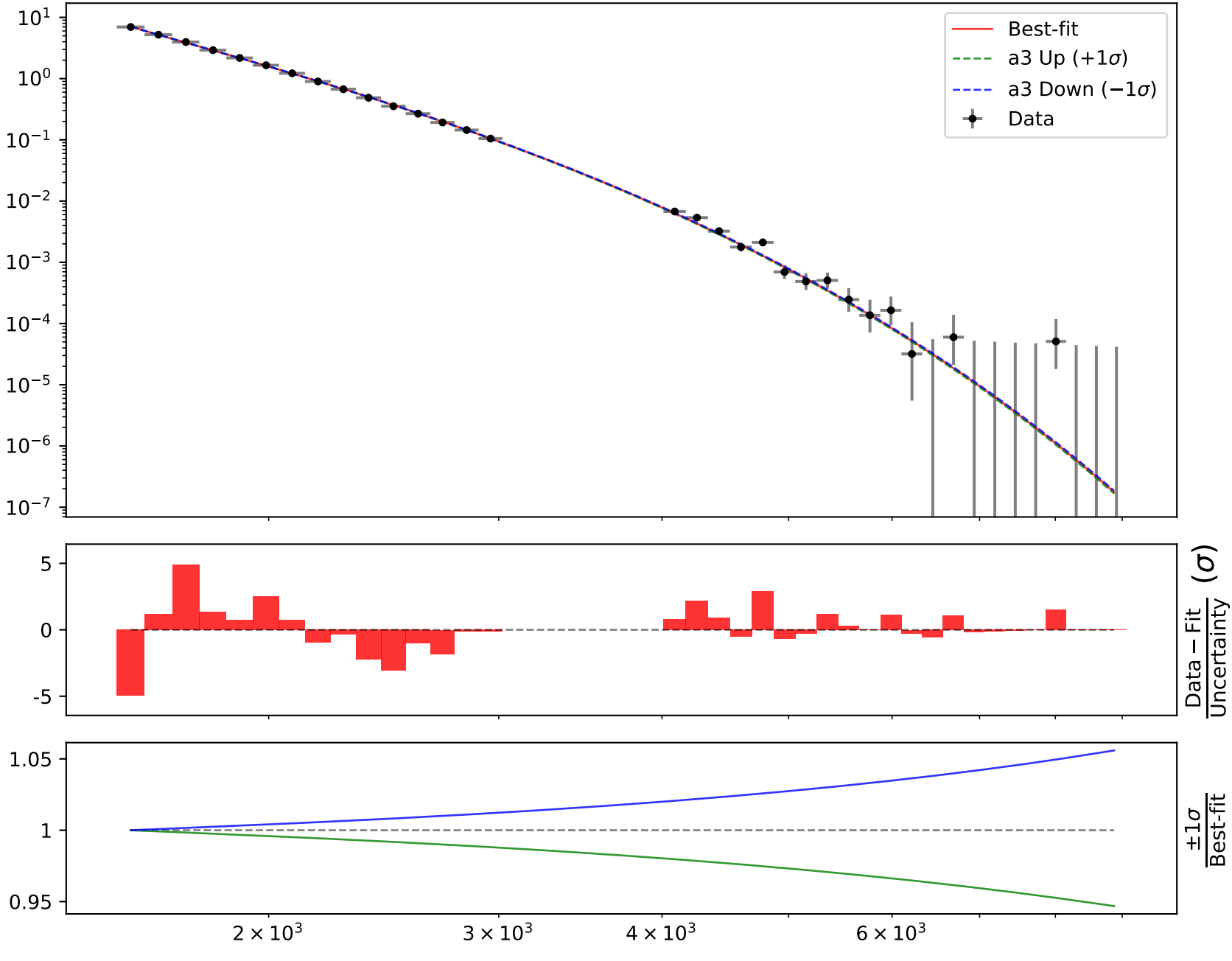
1.0*((a1*tanh(((x0 - 1568.5) * 0.000136221)))**(a3*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 9.09e-05$, $a2 = 0.140958^{+0.0006122(0.434\%)}_{-0.0006077(0.431\%)}$,

$a3 = 1.61808^{+0.005732(0.354\%)}_{-0.005709(0.353\%)}$

Candidate #12

χ^2/NDF = 101.3/35, RMSE = 0.02723, R2 = 0.9997



Candidate function #11

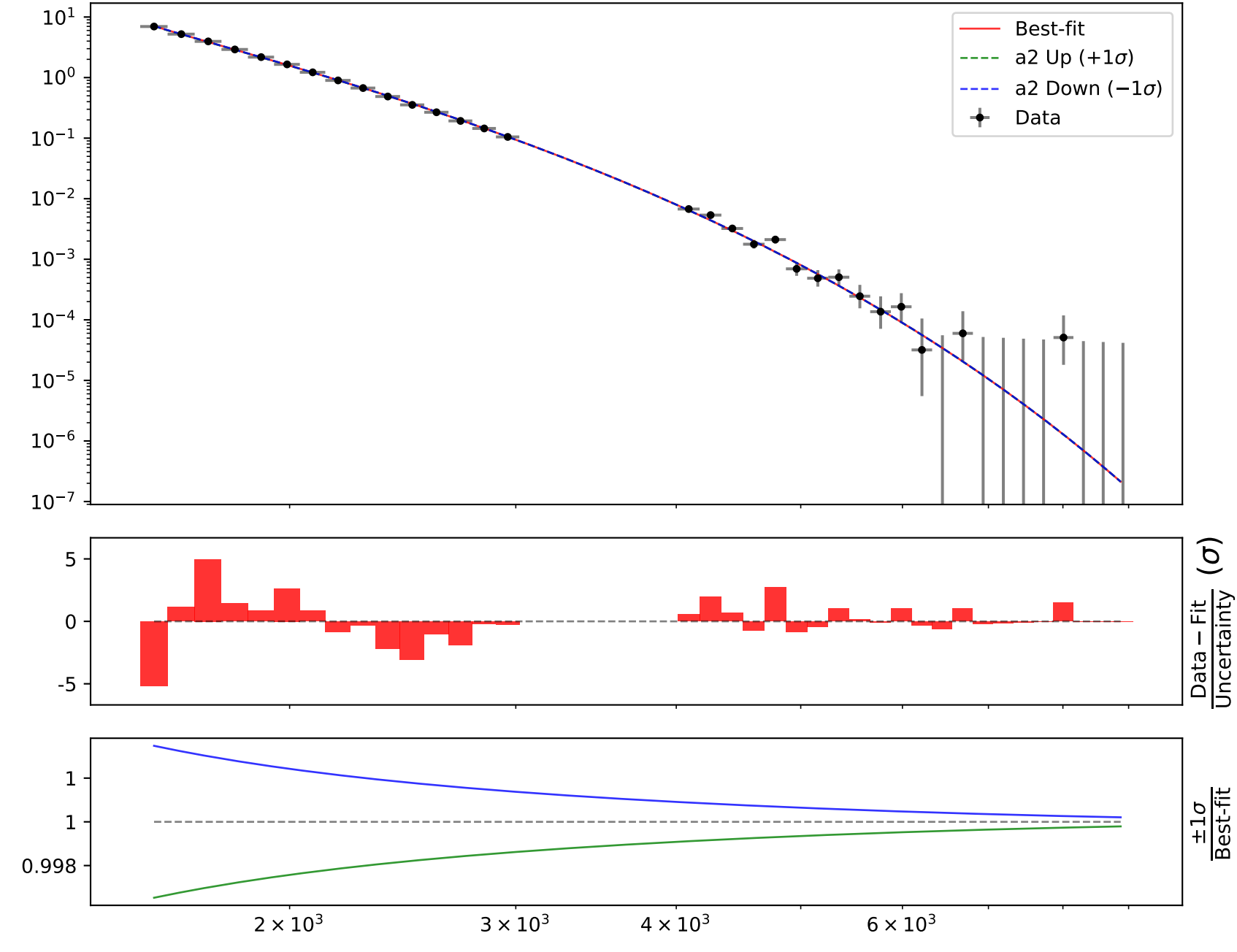
1.0*((a1*tanh(((x0 - 1568.5) * 0.000136221)))**(a3*((x0 - 1568.5) * 0.000136221))/tanh(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 8.77e-05$, $\mathbf{a2 = 0.141804^{+0.0006265(0.442\%)}_{-0.0006219(0.439\%)}}$,

$a3 = 1.62721^{+0.005704(0.351\%)}_{-0.005675(0.349\%)}$

Candidate #11

χ^2/NDF = 102.3/35, RMSE = 0.02799, R2 = 0.9997



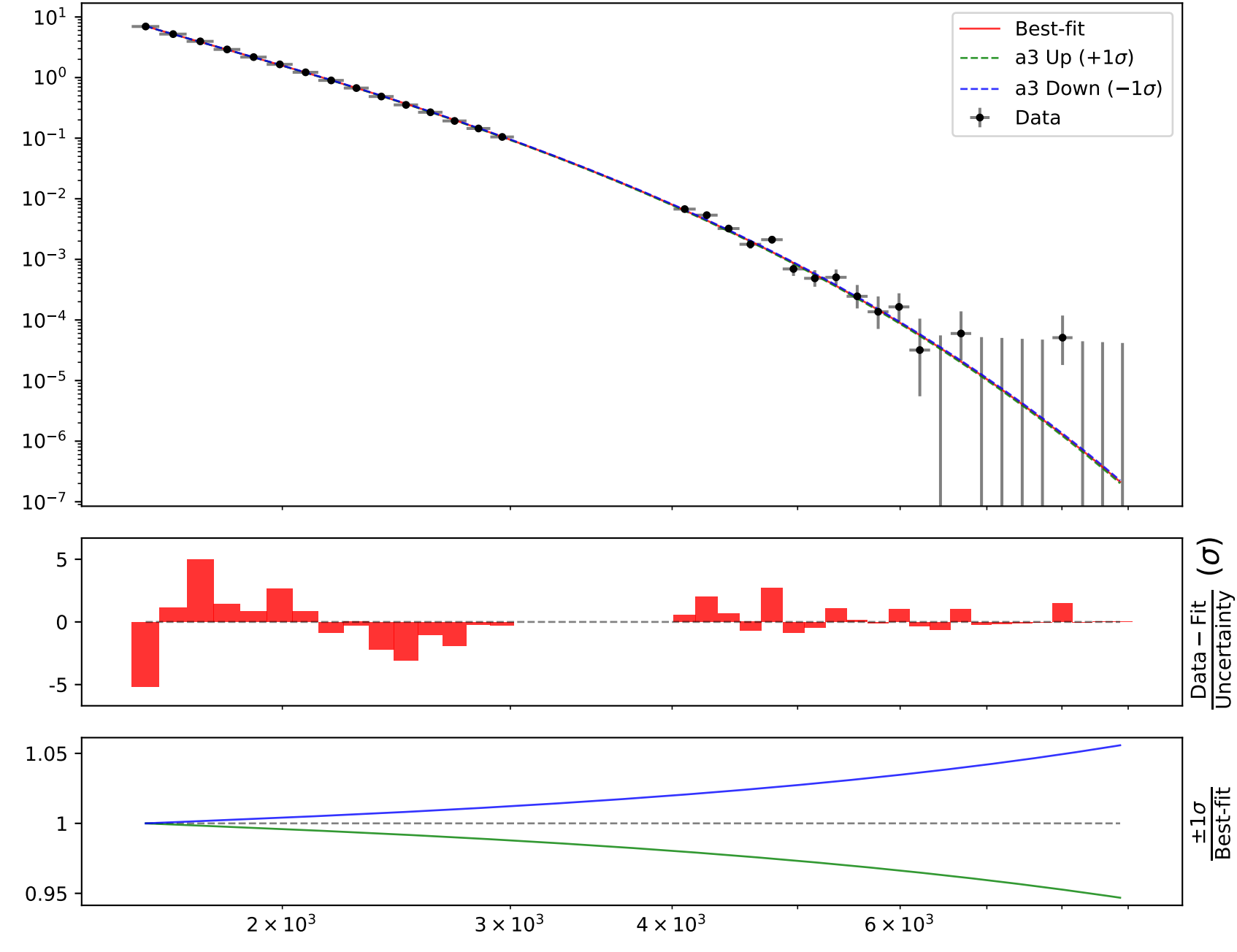
1.0*((a1*tanh(((x0 - 1568.5) * 0.000136221)))**(a3*((x0 - 1568.5) * 0.000136221))/tanh(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 8.77e-05$, $a2 = 0.141804^{+0.0006265(0.442\%)}_{-0.0006219(0.439\%)}$,

$a3 = 1.62721^{+0.005704(0.351\%)}_{-0.005675(0.349\%)}$

Candidate #11

χ^2/NDF = 102.3/35, RMSE = 0.02799, R2 = 0.9997



Candidate function #10

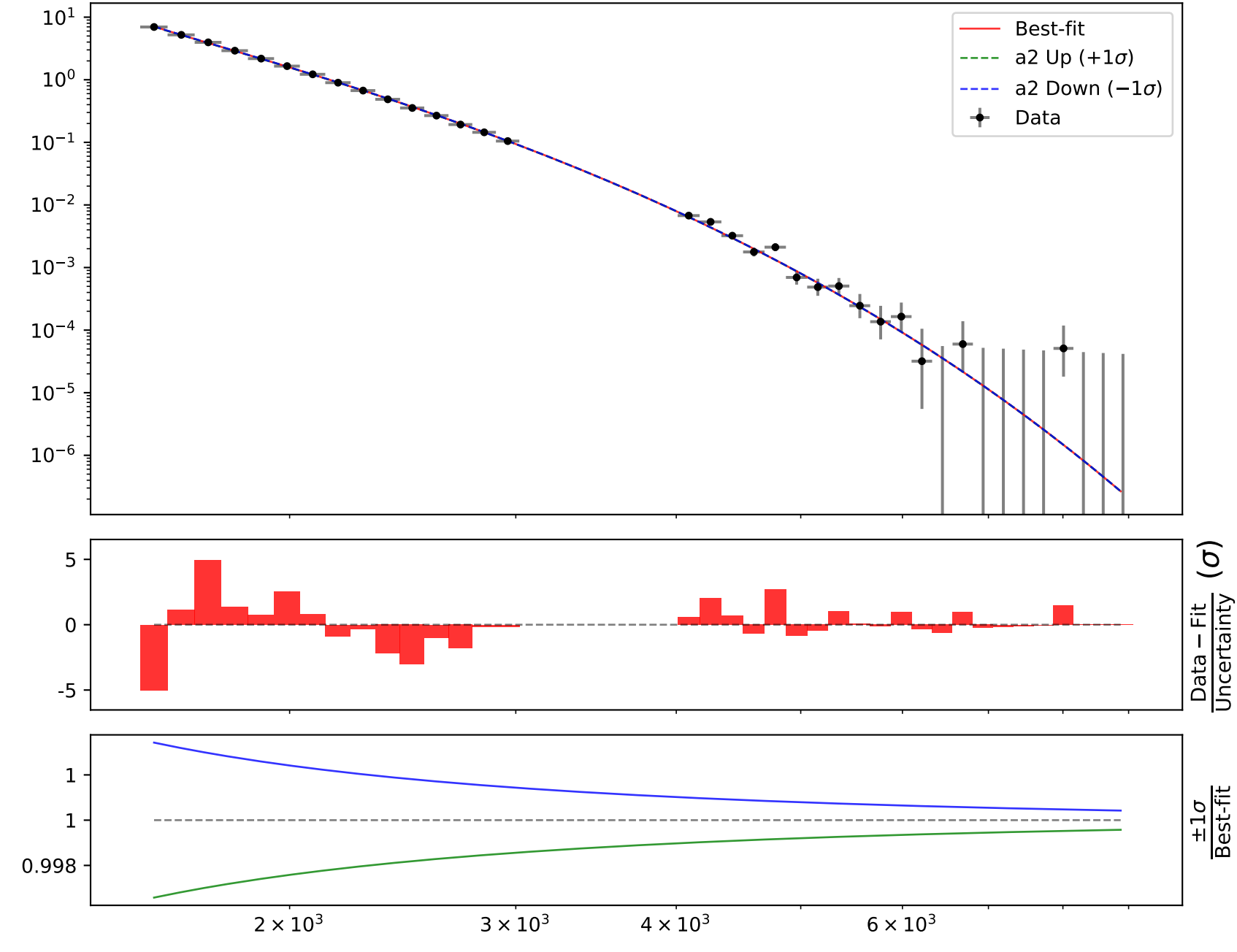
1.0*((a1*((x0 - 1568.5) * 0.000136221))**(a3*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 8.77e-05$, $\mathbf{a2 = 0.140927^{+0.0006053(0.43\%)}_{-0.000601(0.426\%)}}$,

$a3 = 1.61419^{+0.005649(0.35\%)}_{-0.005624(0.348\%)}$

Candidate #10

χ^2/NDF = 99.26/35, RMSE = 0.02741, R2 = 0.9997



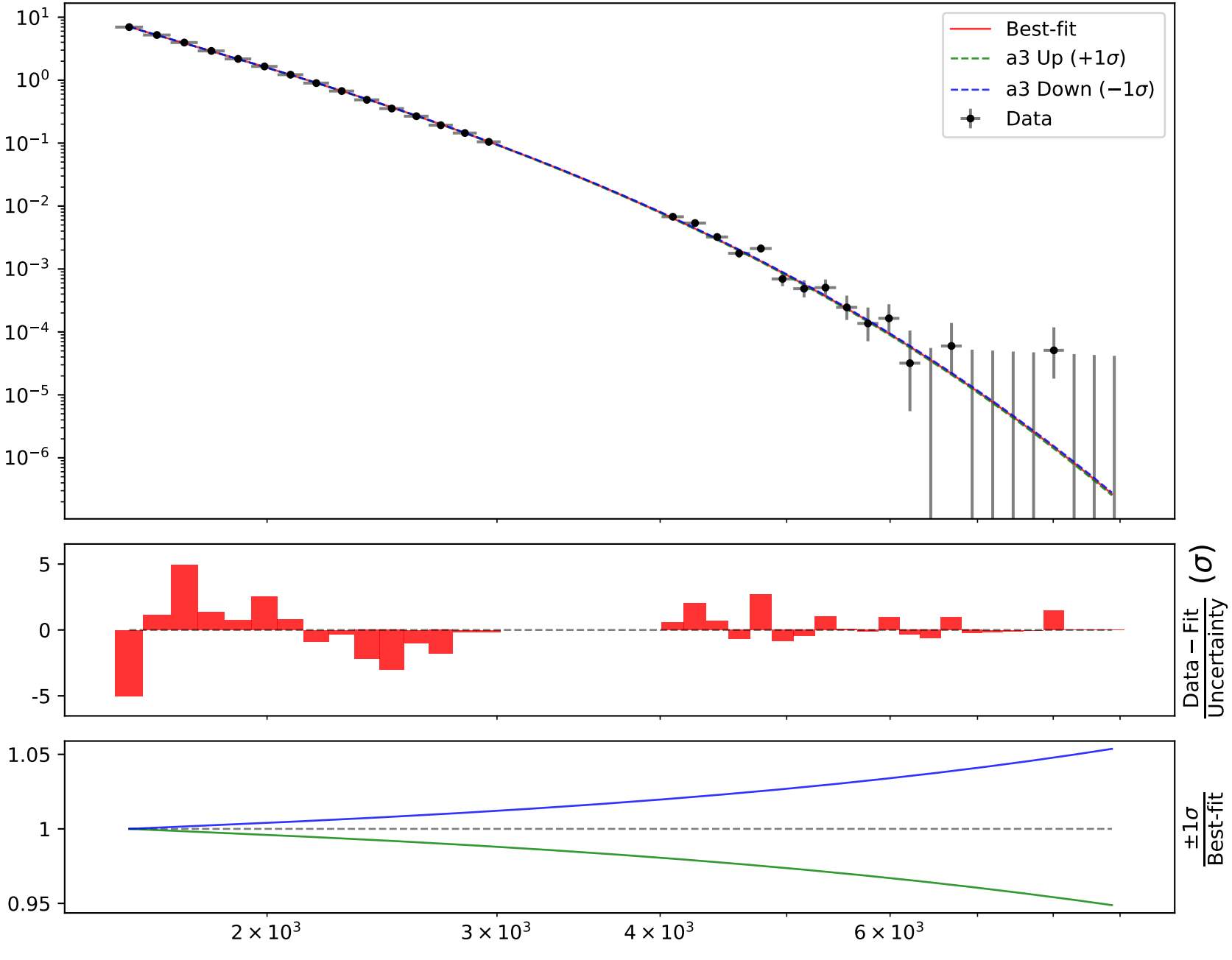
1.0*((a1*((x0 - 1568.5) * 0.000136221))**(a3*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 8.77e-05$, $a2 = 0.140927^{+0.0006053(0.43\%)}_{-0.000601(0.426\%)}$,

$a3 = 1.61419^{+0.005649(0.35\%)}_{-0.005624(0.348\%)}$

Candidate #10

χ^2/NDF = 99.26/35, RMSE = 0.02741, R2 = 0.9997



Candidate function #9

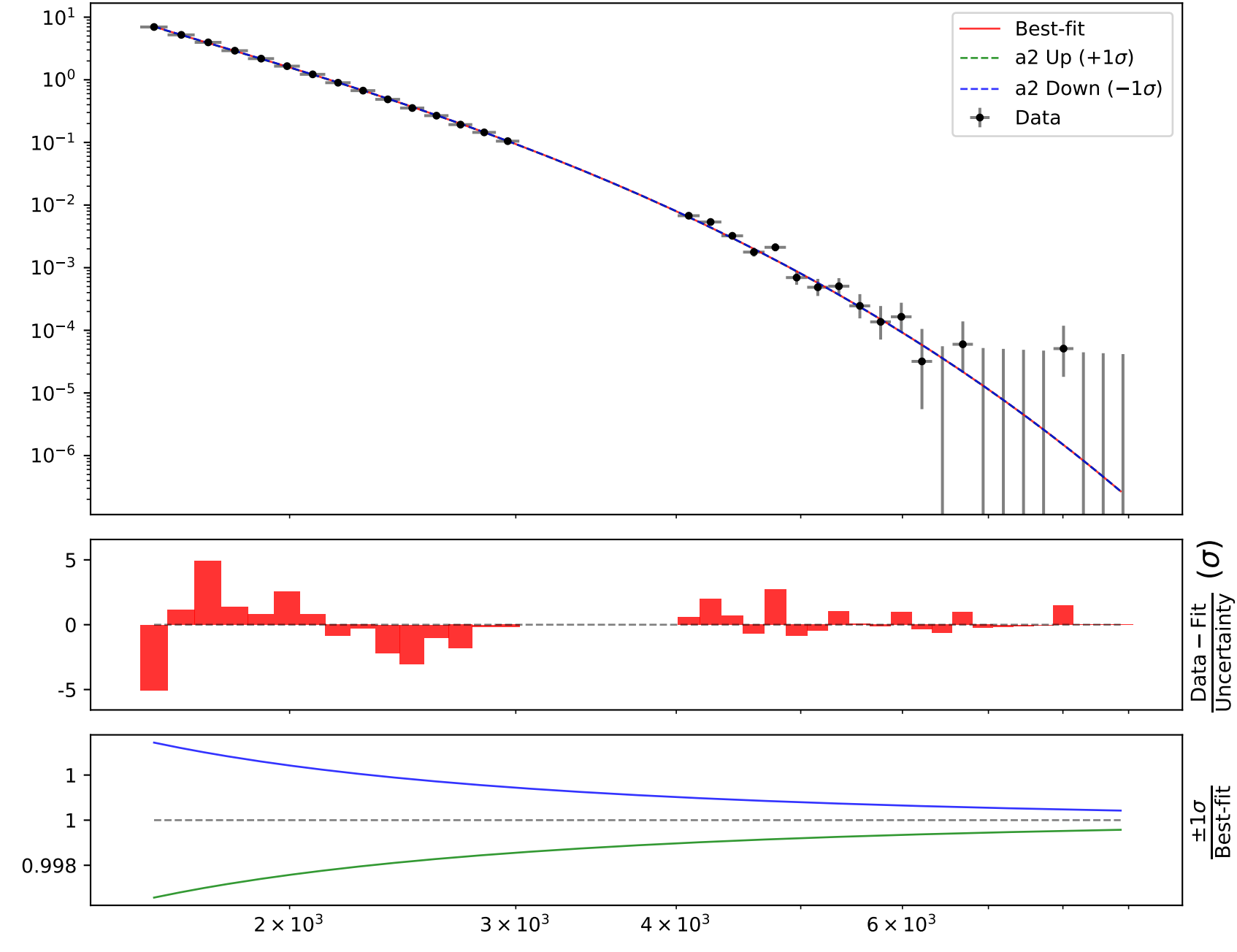
1.0*((a1*((x0 - 1568.5) * 0.000136221))**(a3*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 9.09e-05$, $\mathbf{a2 = 0.140908^{+0.0006072(0.431\%)}_{-0.0006029(0.428\%)}}$,

$a3 = 1.61928^{+0.005684(0.351\%)}_{-0.005659(0.349\%)}$

Candidate #9

χ^2/NDF = 99.93/35, RMSE = 0.02758, R2 = 0.9997



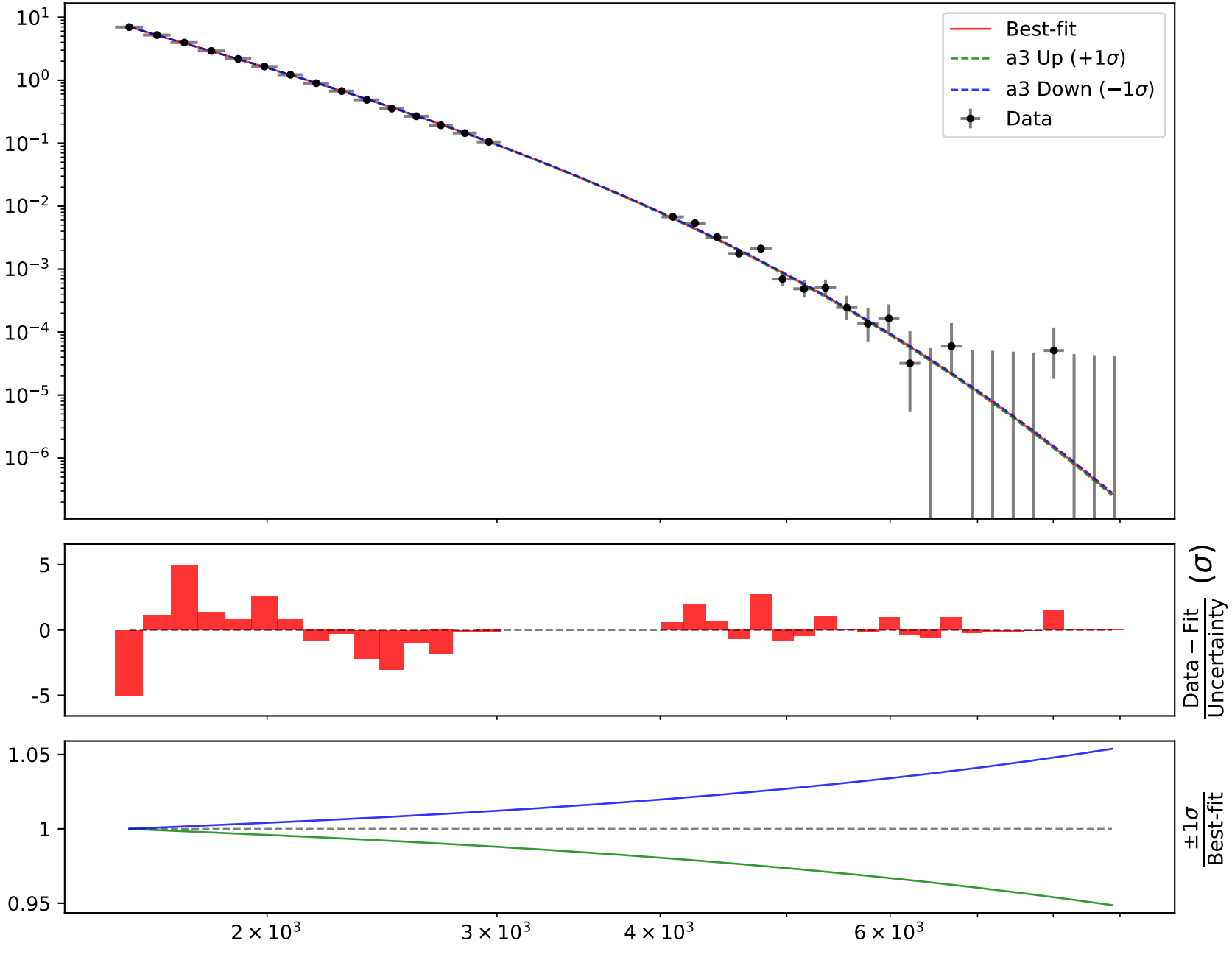
1.0*((a1*((x0 - 1568.5) * 0.000136221))**(a3*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 9.09e-05$, $a2 = 0.140908^{+0.0006072(0.431\%)}_{-0.0006029(0.428\%)}$,

$a3 = 1.61928^{+0.005684(0.351\%)}_{-0.005659(0.349\%)}$

Candidate #9

χ^2/NDF = 99.93/35, RMSE = 0.02758, R2 = 0.9997



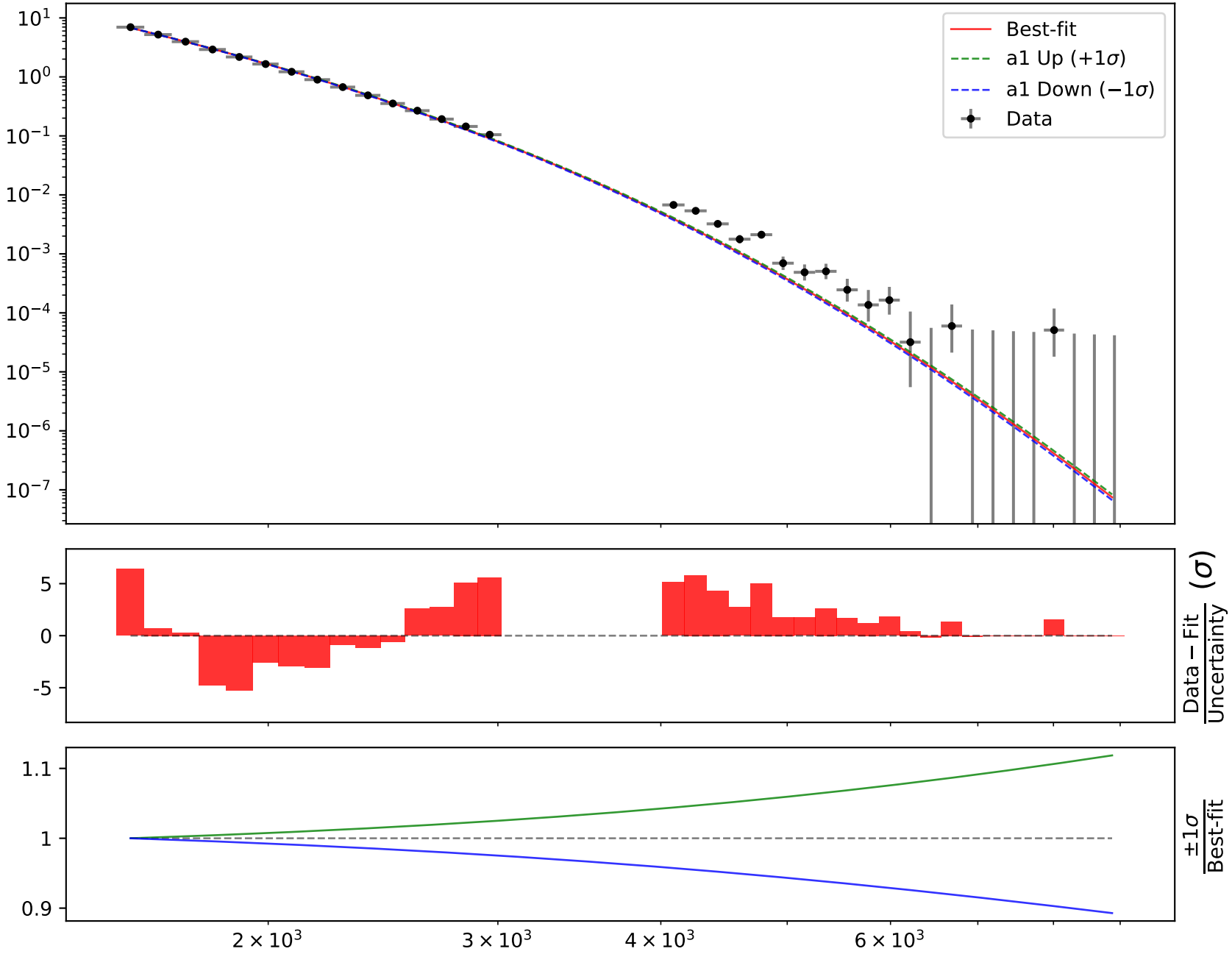
Candidate function #8

1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))/(a2 + ((x0 - 1568.5) * 0.000136221)))

a1 = 9.35738e − 05$^{+6.175e-06(6.6\%)}_{-5.851e-06(6.25\%)}$, a2 = 0.147023$^{+0.001171(0.796\%)}_{-0.001156(0.787\%)}$

Candidate #8

χ^2/NDF = 328.6/35, RMSE = 0.03341, R2 = 0.9995

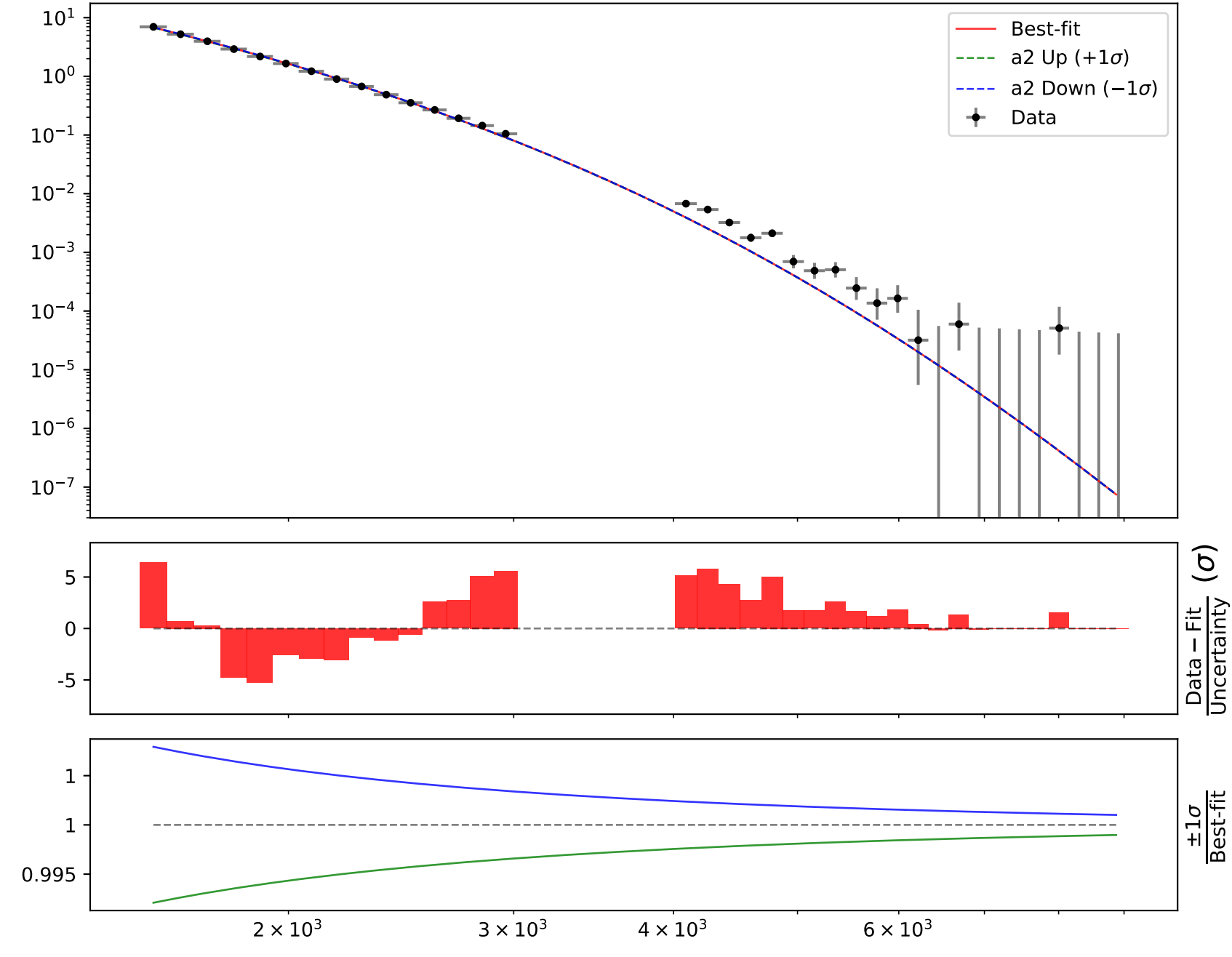


1.0*(a1**(((x0 - 1568.5) * 0.000136221) + tanh(((x0 - 1568.5) * 0.000136221)))/(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 9.35738e-05^{+6.175e-06(6.6\%)}_{-5.851e-06(6.25\%)}$, $\mathbf{a2 = 0.147023^{+0.001171(0.796\%)}_{-0.001156(0.787\%)}}$

Candidate #8

χ^2/NDF = 328.6/35, RMSE = 0.03341, R2 = 0.9995



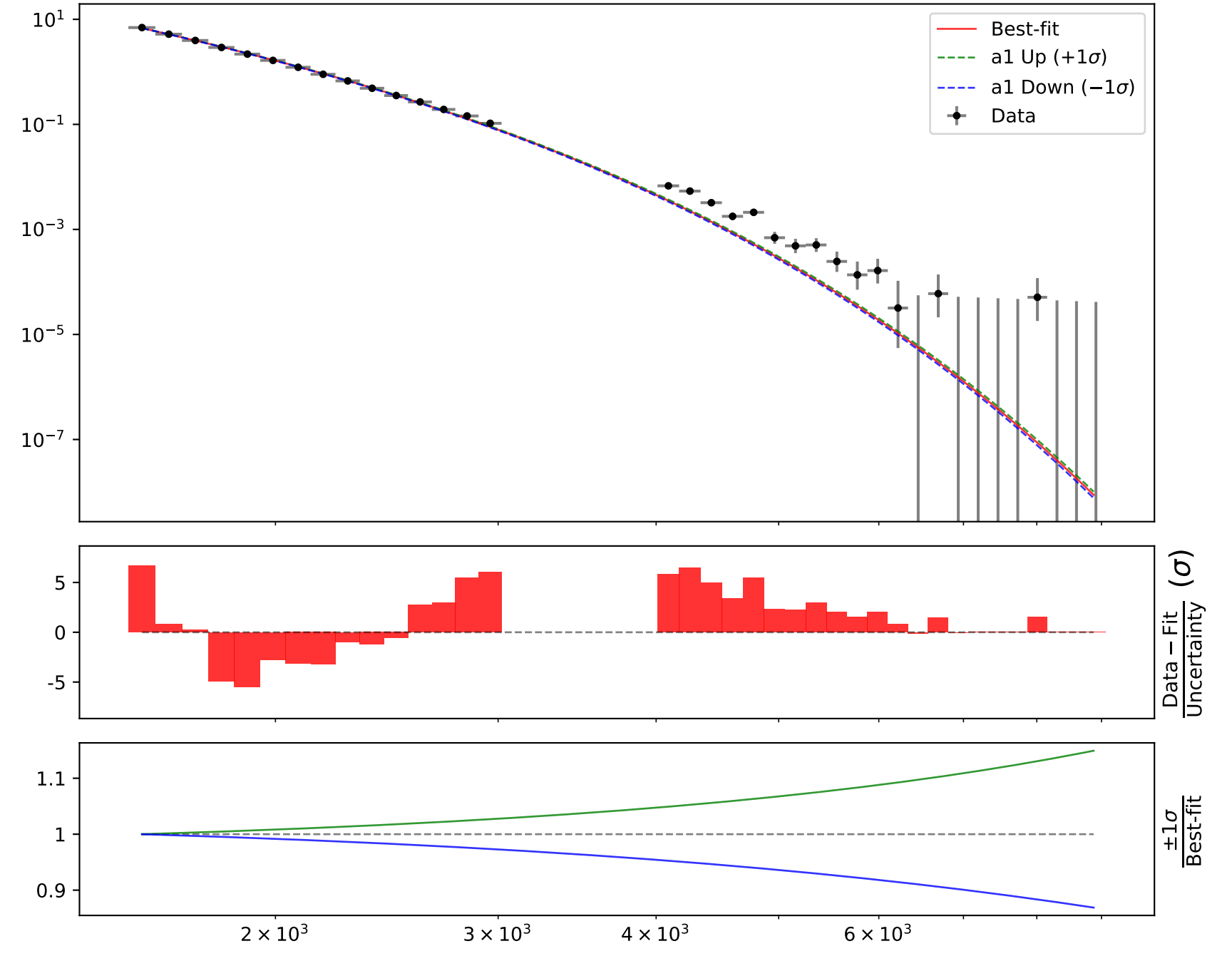
Candidate function #7

1.0*(a1**(2*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)))

a1 = 9.57824e − 05 $^{+6.933e-06(7.24\%)}_{-6.534e-06(6.82\%)}$, a2 = 0.147163 $^{+0.00128(0.87\%)}_{-0.001263(0.858\%)}$

Candidate #7

χ^2/NDF = 389.9/35, RMSE = 0.03473, R2 = 0.9995

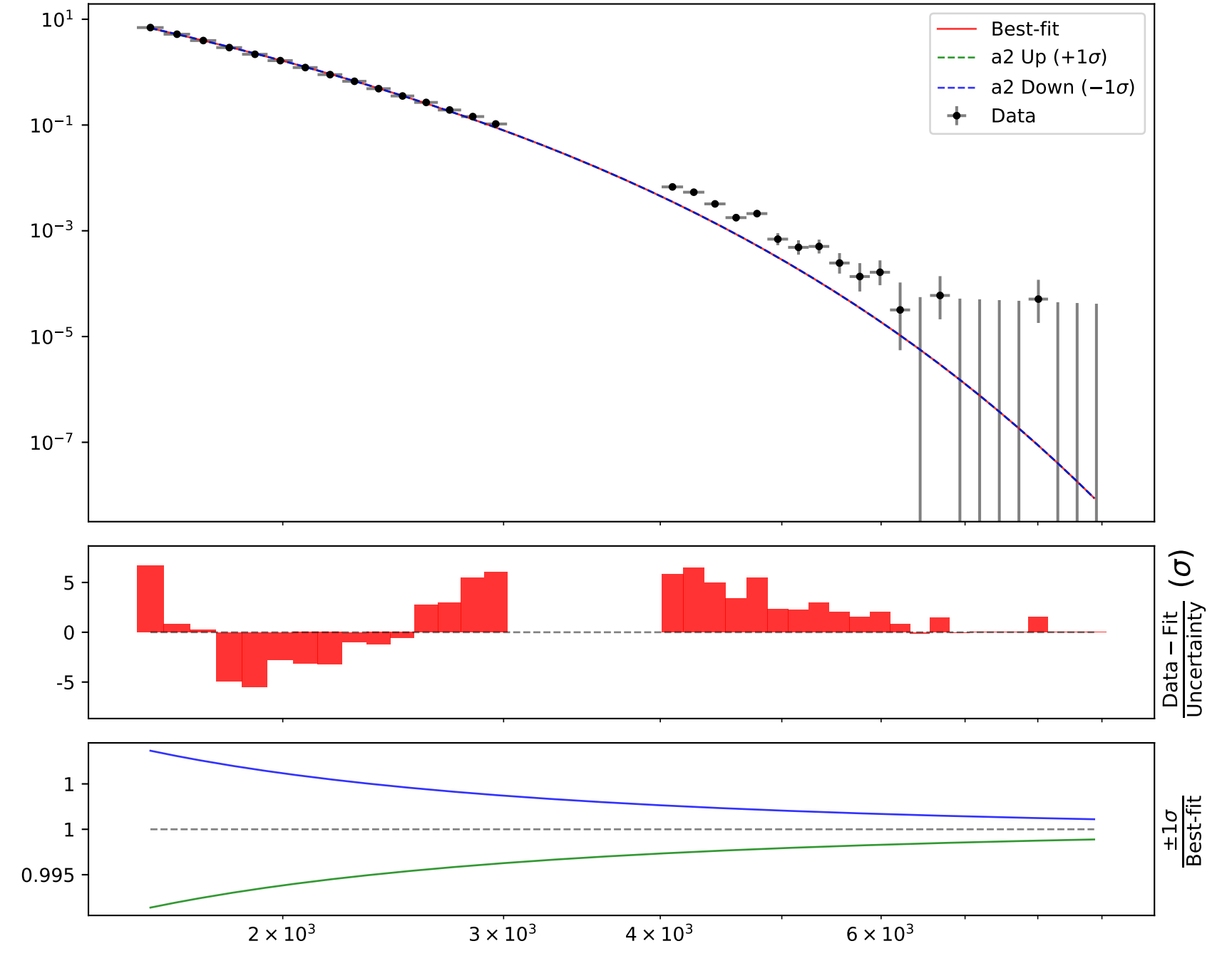


1.0*(a1**(2*((x0 - 1568.5) * 0.000136221))/(a2 + ((x0 - 1568.5) * 0.000136221)))

$a1 = 9.57824e-05^{+6.933e-06(7.24\%)}_{-6.534e-06(6.82\%)}$, $\mathbf{a2 = 0.147163^{+0.00128(0.87\%)}_{-0.001263(0.858\%)}}$

Candidate #7

χ^2/NDF = 389.9/35, RMSE = 0.03473, R2 = 0.9995

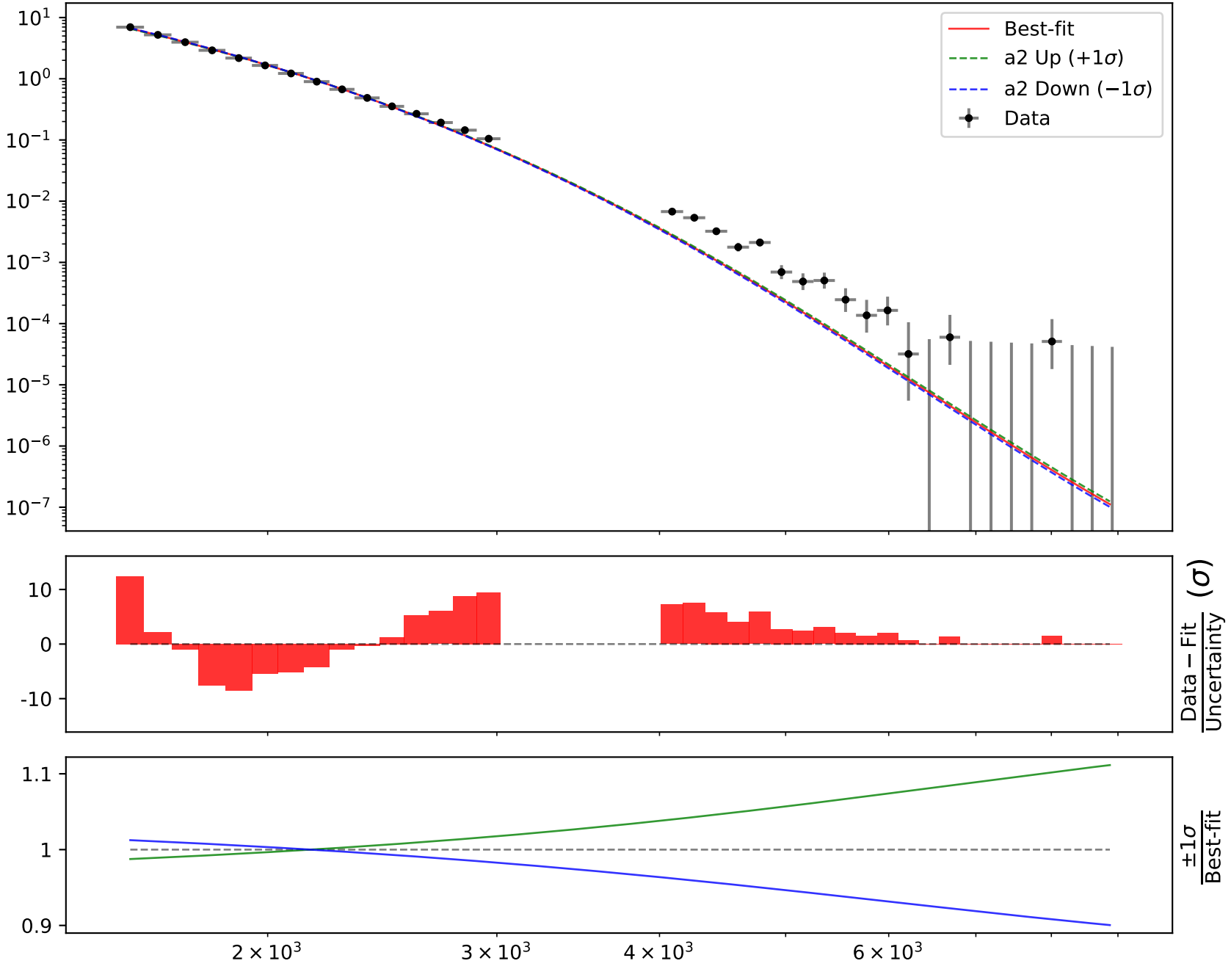


Candidate function #6

1.0*(a2**(a1 + a3*tanh(((x0 - 1568.5) * 0.000136221))))

$a1 = -0.553$, $\mathbf{a2 = 0.0325342^{+0.0007443(2.29\%)}_{-0.0007219(2.22\%)}}$,
$a3 = 6.88028^{+0.05145(0.748\%)}_{-0.05061(0.736\%)}$

Candidate #6
χ^2/NDF = 830.9/35, RMSE = 0.06185, R2 = 0.9984



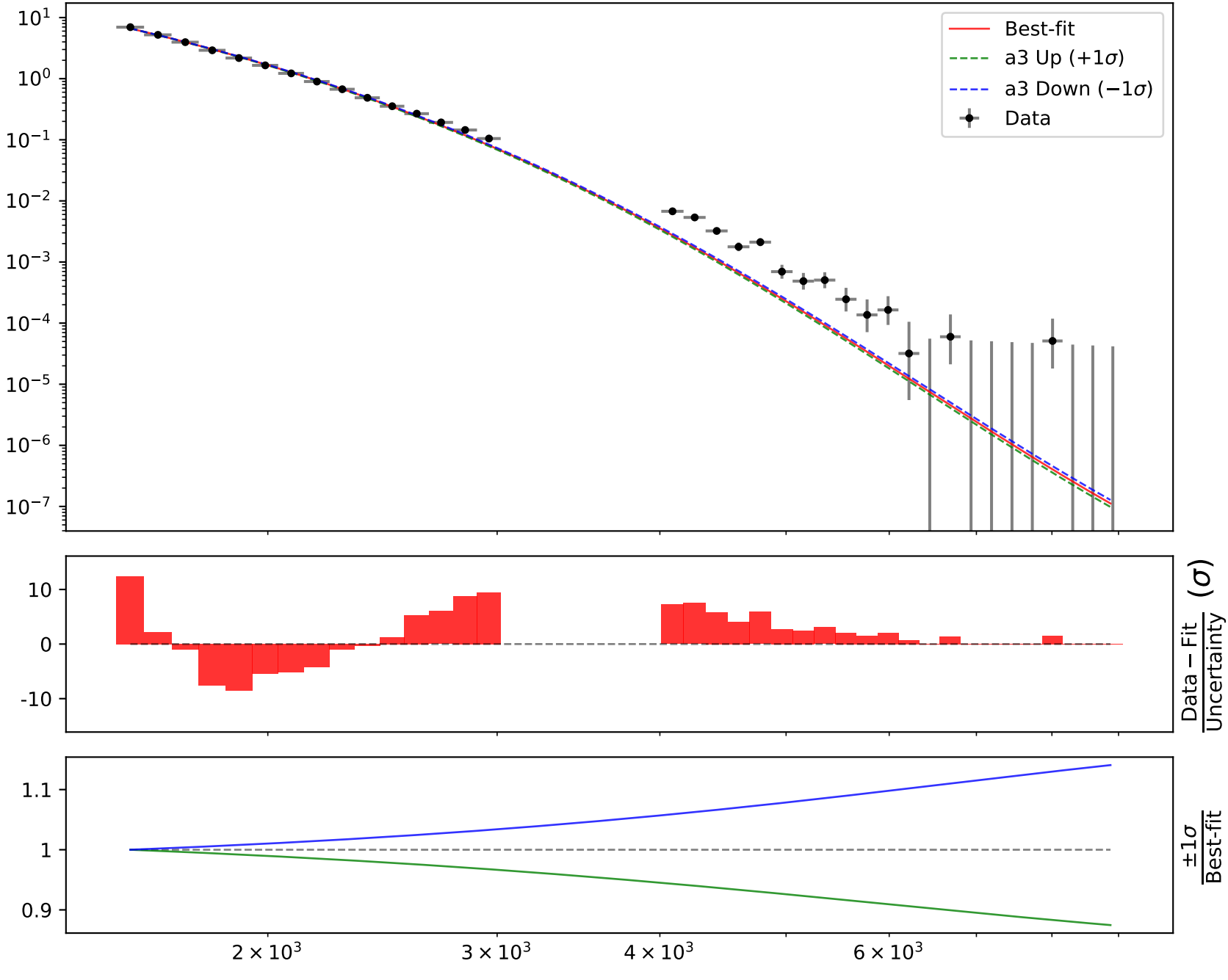
1.0*(a2**(a1 + a3*tanh(((x0 - 1568.5) * 0.000136221))))

$a1 = -0.553$, $a2 = 0.0325342^{+0.0007443(2.29\%)}_{-0.0007219(2.22\%)}$,

$a3 = 6.88028^{+0.05145(0.748\%)}_{-0.05061(0.736\%)}$

Candidate #6

χ^2/NDF = 830.9/35, RMSE = 0.06185, R2 = 0.9984



Candidate function #5

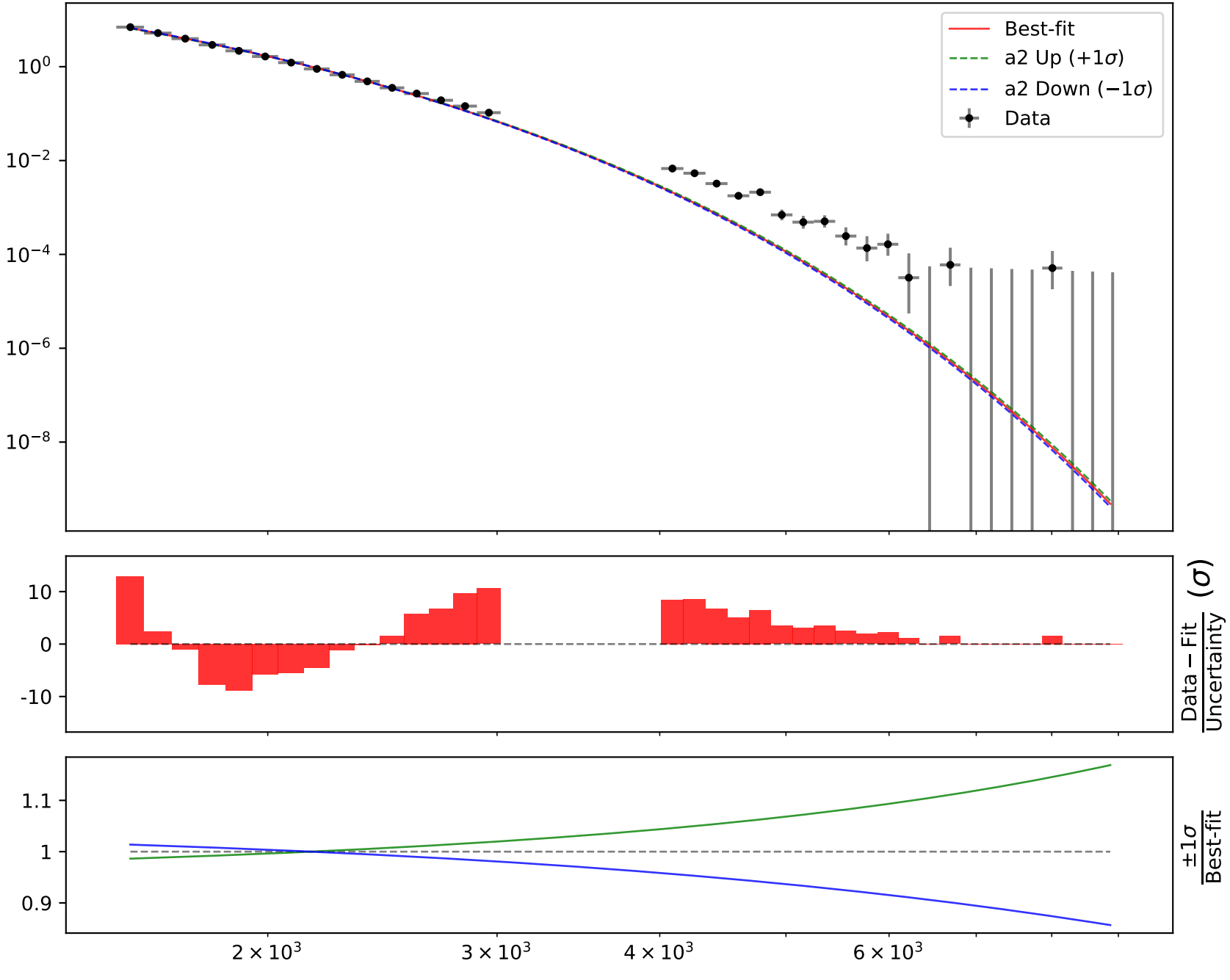
1.0*(a2**(a1 + a3*((x0 - 1568.5) * 0.000136221)))

$a1 = -0.553$, $\mathbf{a2 = 0.0326488^{+0.0008227(2.52\%)}_{-0.0007954(2.44\%)}}$,

$a3 = 6.8563^{+0.05672(0.827\%)}_{-0.05571(0.813\%)}$

Candidate #5

χ^2/NDF = 999.7/35, RMSE = 0.06455, R2 = 0.9983



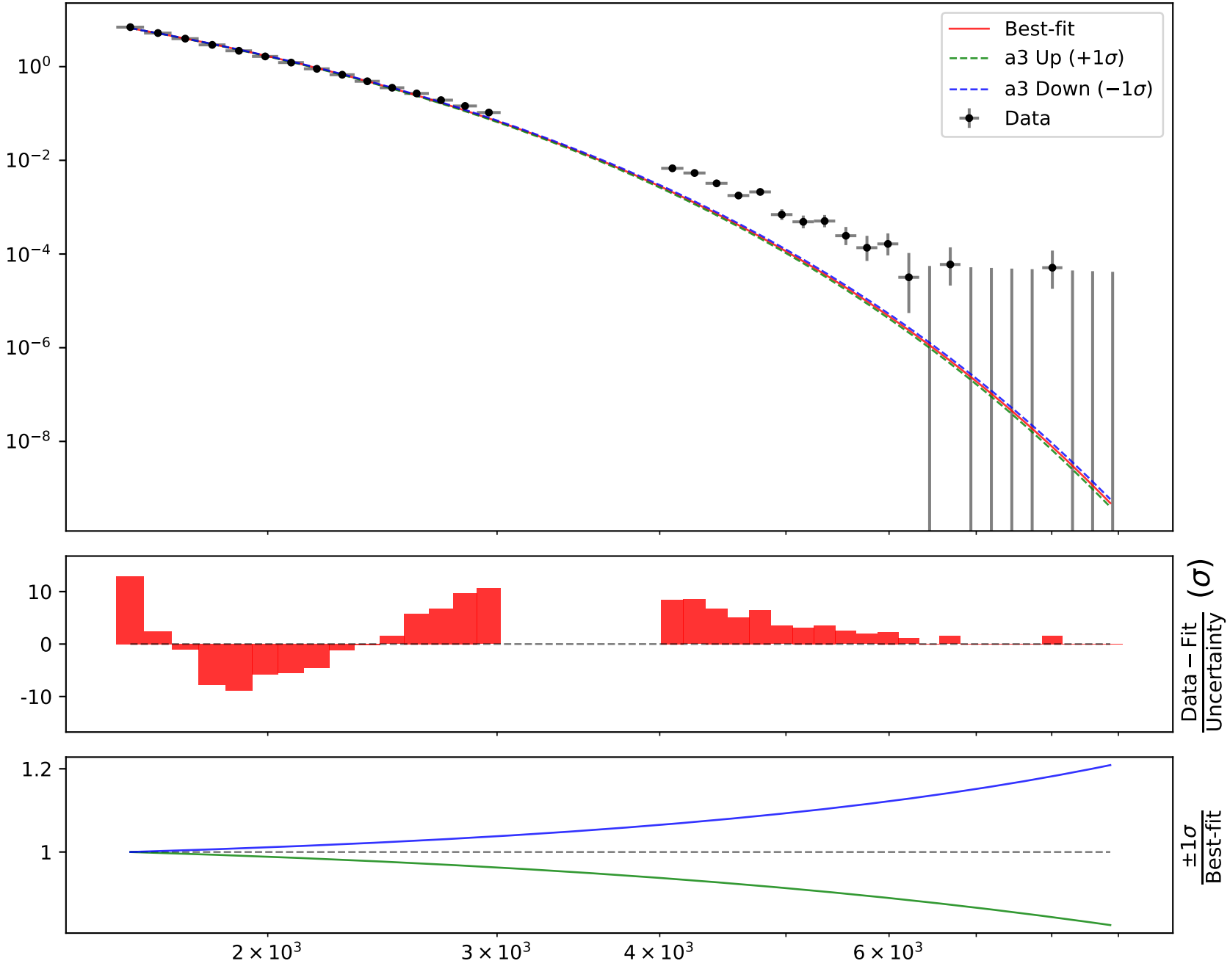
1.0*(a2**(a1 + a3*((x0 - 1568.5) * 0.000136221)))

$a1 = -0.553$, $a2 = 0.0326488^{+0.0008227(2.52\%)}_{-0.0007954(2.44\%)}$,

$a3 = 6.8563^{+0.05672(0.827\%)}_{-0.05571(0.813\%)}$

Candidate #5

χ^2/NDF = 999.7/35, RMSE = 0.06455, R2 = 0.9983



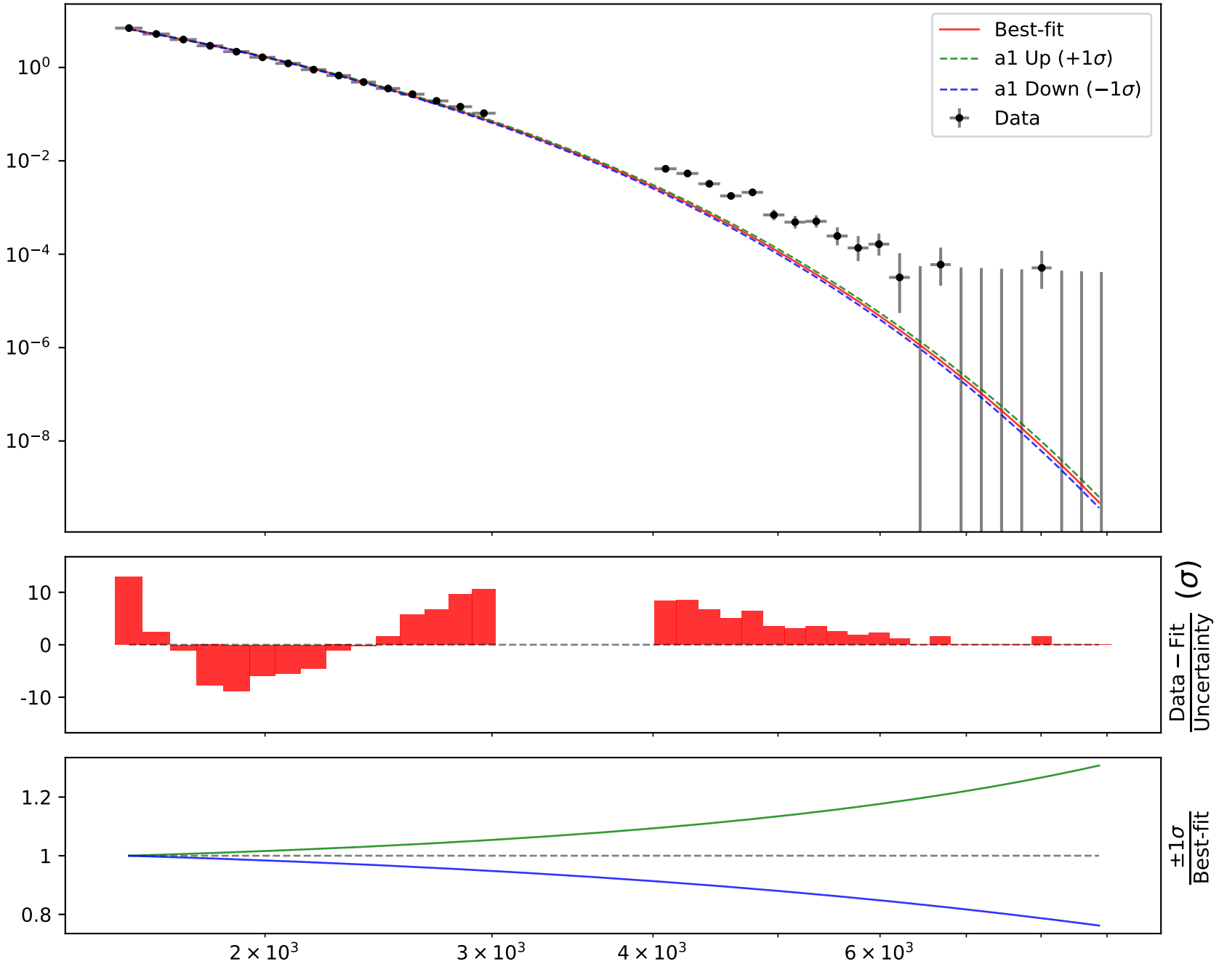
Candidate function #4

1.0*(a2*exp(a1*((x0 - 1568.5) * 0.000136221)))

a1 = $-23.4619^{+0.2694(1.15\%)}_{-0.2731(1.16\%)}$, a2 = $6.63485^{+0.09112(1.37\%)}_{-0.09068(1.37\%)}$

Candidate #4

χ^2/NDF = 999.7/35, RMSE = 0.06456, R2 = 0.9983

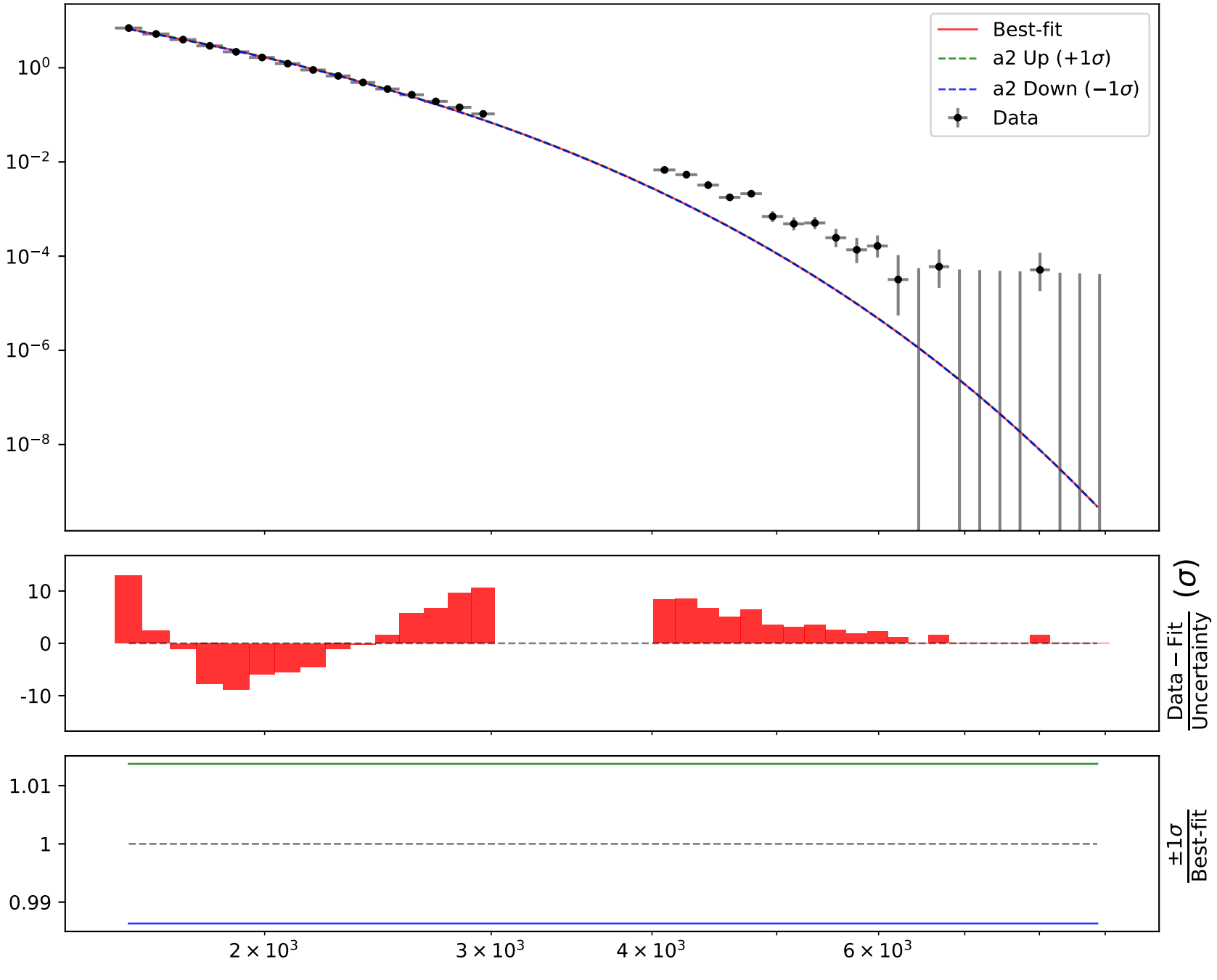


1.0*(a2*exp(a1*((x0 - 1568.5) * 0.000136221)))

$a1 = -23.4619^{+0.2694(1.15\%)}_{-0.2731(1.16\%)}$, **$a2 = 6.63485^{+0.09112(1.37\%)}_{-0.09068(1.37\%)}$**

Candidate #4

χ^2/NDF = 999.7/35, RMSE = 0.06456, R2 = 0.9983



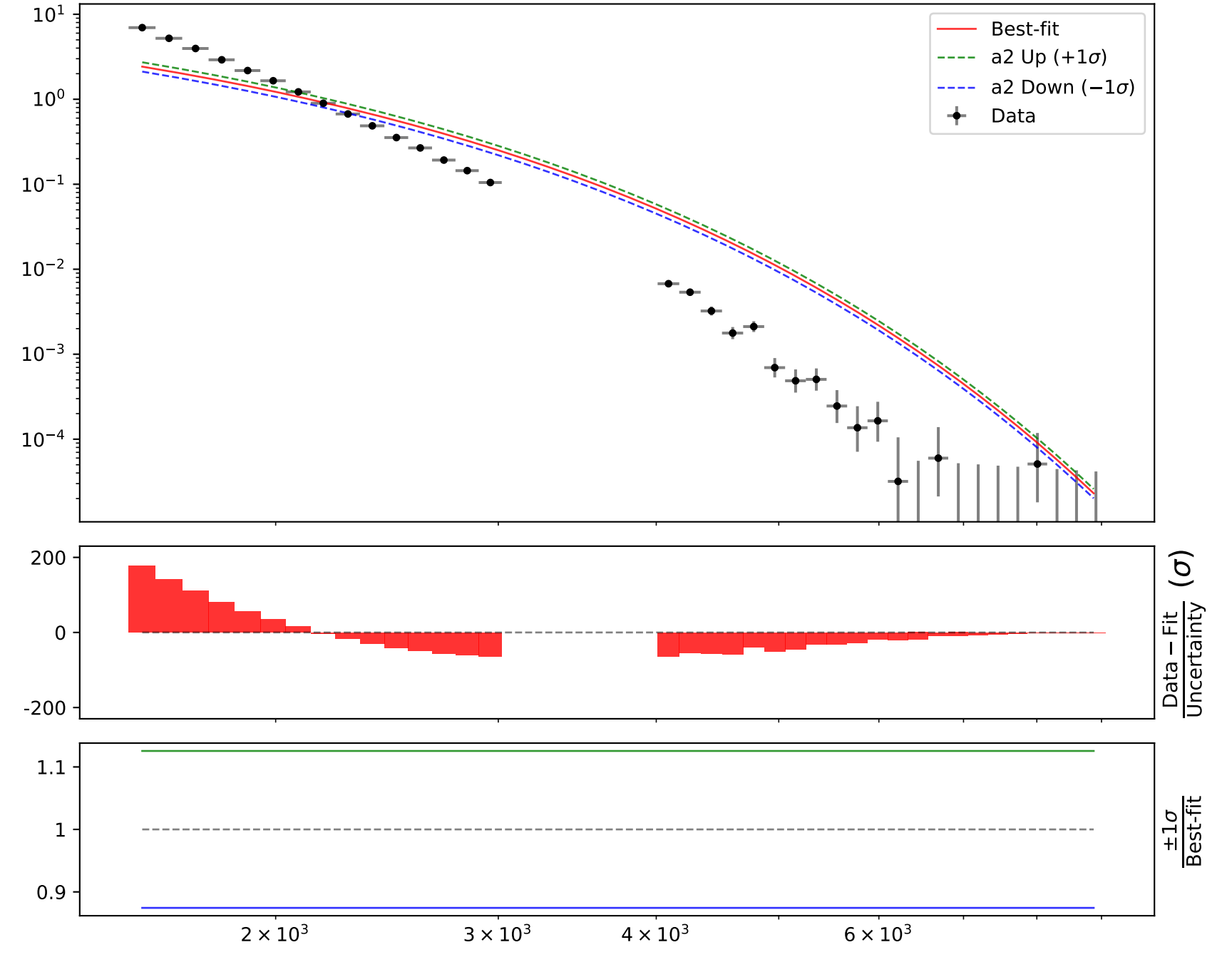
Candidate function #3

1.0*(a1**((x0 - 1568.5) * 0.000136221)*a2)

$a1 = 8.99e-06$, $\mathbf{a2 = 2.42115^{+0.304(12.6\%)}_{-0.304(12.6\%)}}$

Candidate #3

χ^2/NDF = 114800.0/36, RMSE = 1.001, R2 = 0.5909



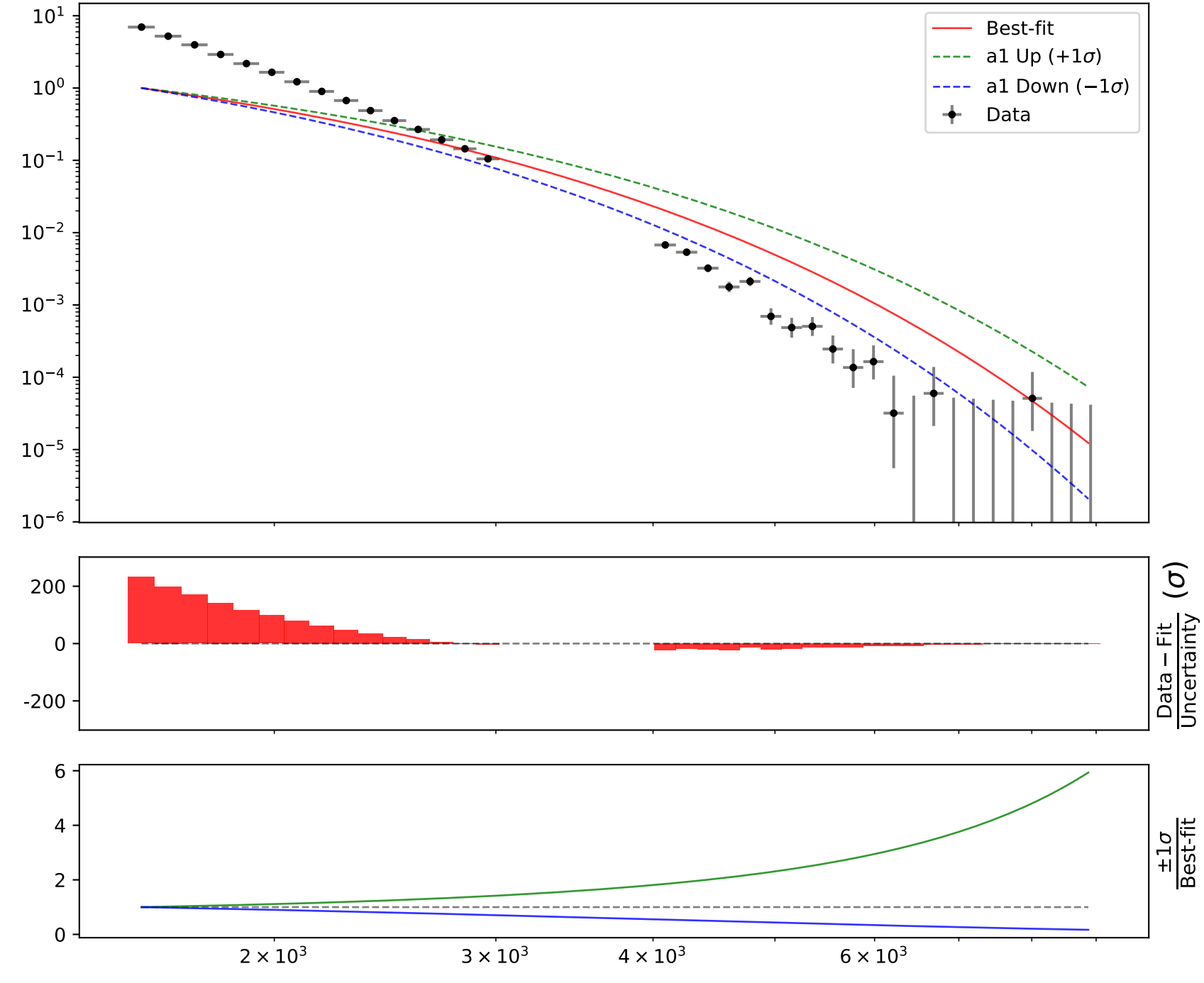
Candidate function #2

1.0*(exp(a1*((x0 - 1568.5) * 0.000136221)))

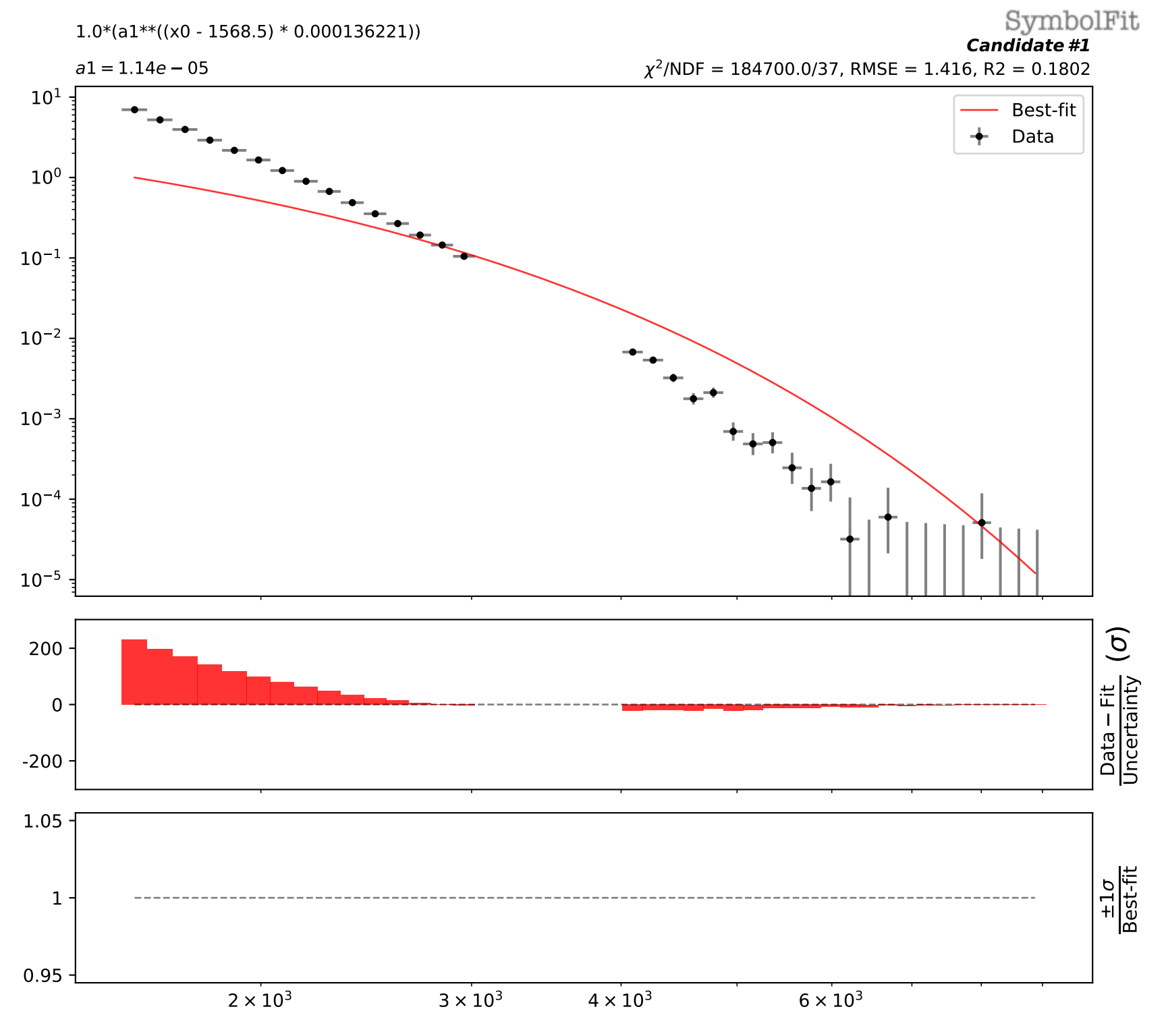
Candidate #2

a1 = $-11.361^{+1.79(15.8\%)}_{-1.79(15.8\%)}$

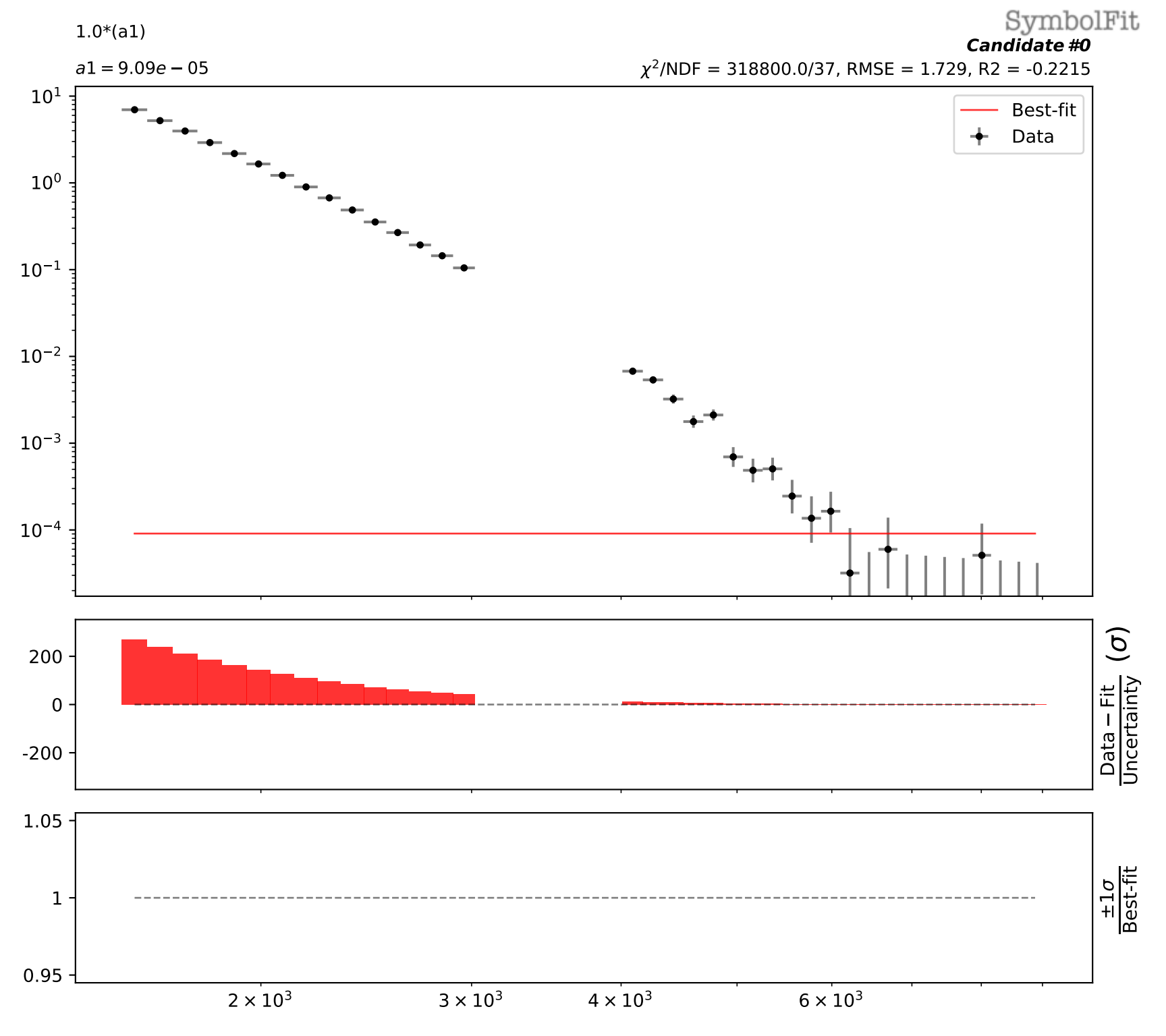
χ^2/NDF = 184700.0/36, RMSE = 1.416, R2 = 0.1804



Candidate function #1


1.0*(a1**((x0 - 1568.5) * 0.000136221))
SymbolFit
Candidate #1
a1 = 1.14e − 05
χ²/NDF = 184700.0/37, RMSE = 1.416, R2 = 0.1802
Best-fit
Data
Data − Fit / Uncertainty (σ)
±1σ / Best-fit
2 × 10³
3 × 10³
4 × 10³
6 × 10³

Candidate function #0


SymbolFit
1.0*(a1)
Candidate #0
$a1 = 9.09e-05$
χ^2/NDF = 318800.0/37, RMSE = 1.729, R2 = -0.2215
Best-fit
Data
10^1
10^0
10^{-1}
10^{-2}
10^{-3}
10^{-4}
200
0
-200
Data − Fit / Uncertainty (σ)
1.05
1
0.95
±1σ / Best-fit
2×10^3
3×10^3
4×10^3
6×10^3