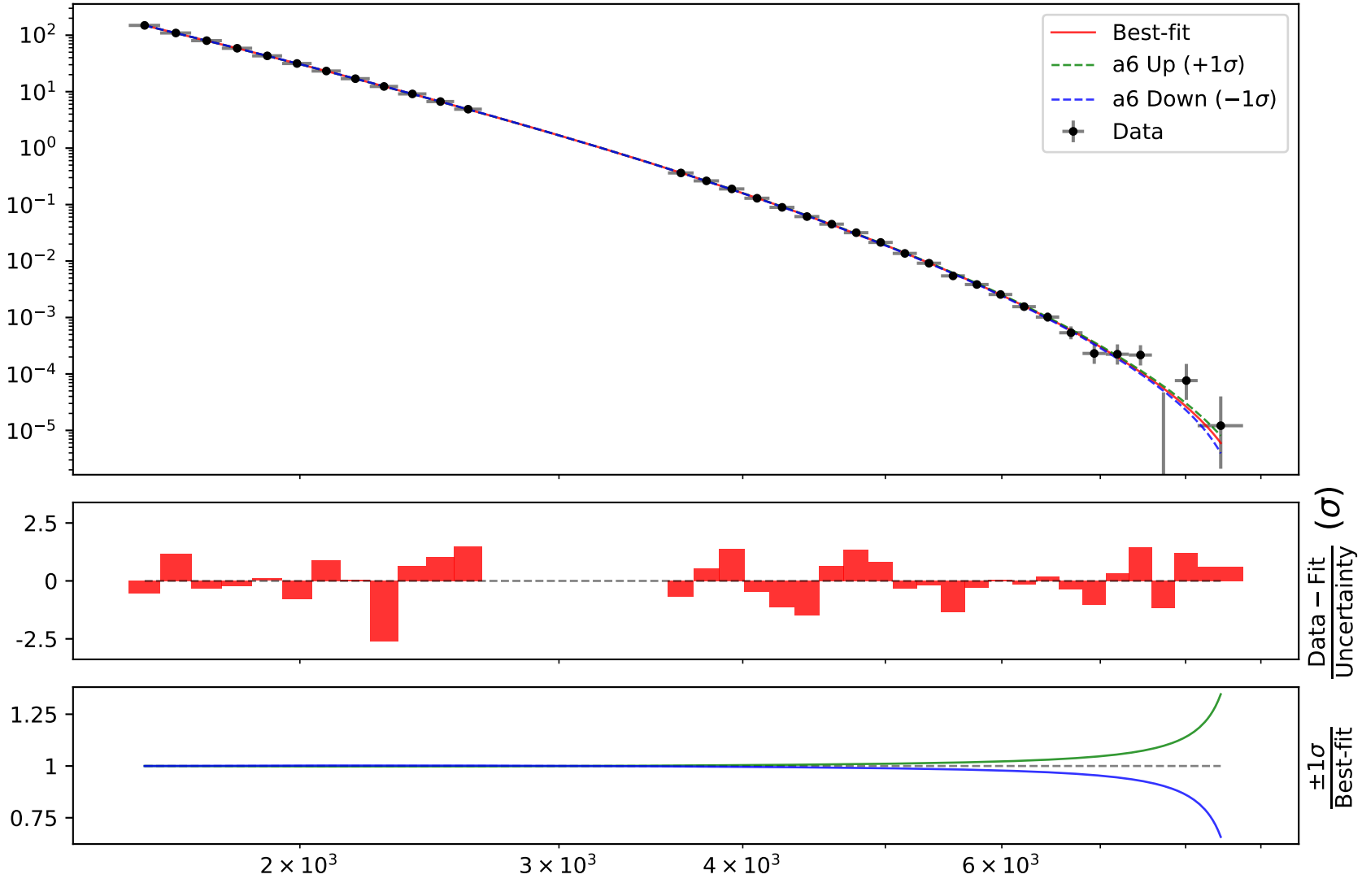
Candidate function #26

1.0*((a4*tanh(a11*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + a8*((x0 - 1568.5) * 0.000145275)**a9)*tanh(a10*a3**((x0 - 1568.5) * 0.000145275)))

$a1 = -0.235$, $a2 = -0.162$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $\mathbf{a6 = 0.572234^{+0.00638(1.11\%)}_{-0.00638(1.11\%)}}$,
$a7 = 1.07524^{+0.00334(0.311\%)}_{-0.00334(0.311\%)}$, $a8 = 0.391684^{+0.109(27.8\%)}_{-0.109(27.8\%)}$,
$a9 = 1.14865^{+0.365(31.8\%)}_{-0.365(31.8\%)}$, $a10 = 8.3311^{+3.16(37.9\%)}_{-3.16(37.9\%)}$,
$a11 = 8.67203^{+0.487(5.62\%)}_{-0.487(5.62\%)}$

Candidate #26

χ^2/NDF = 31.77/29, RMSE = 0.02889, R2 = 1.0

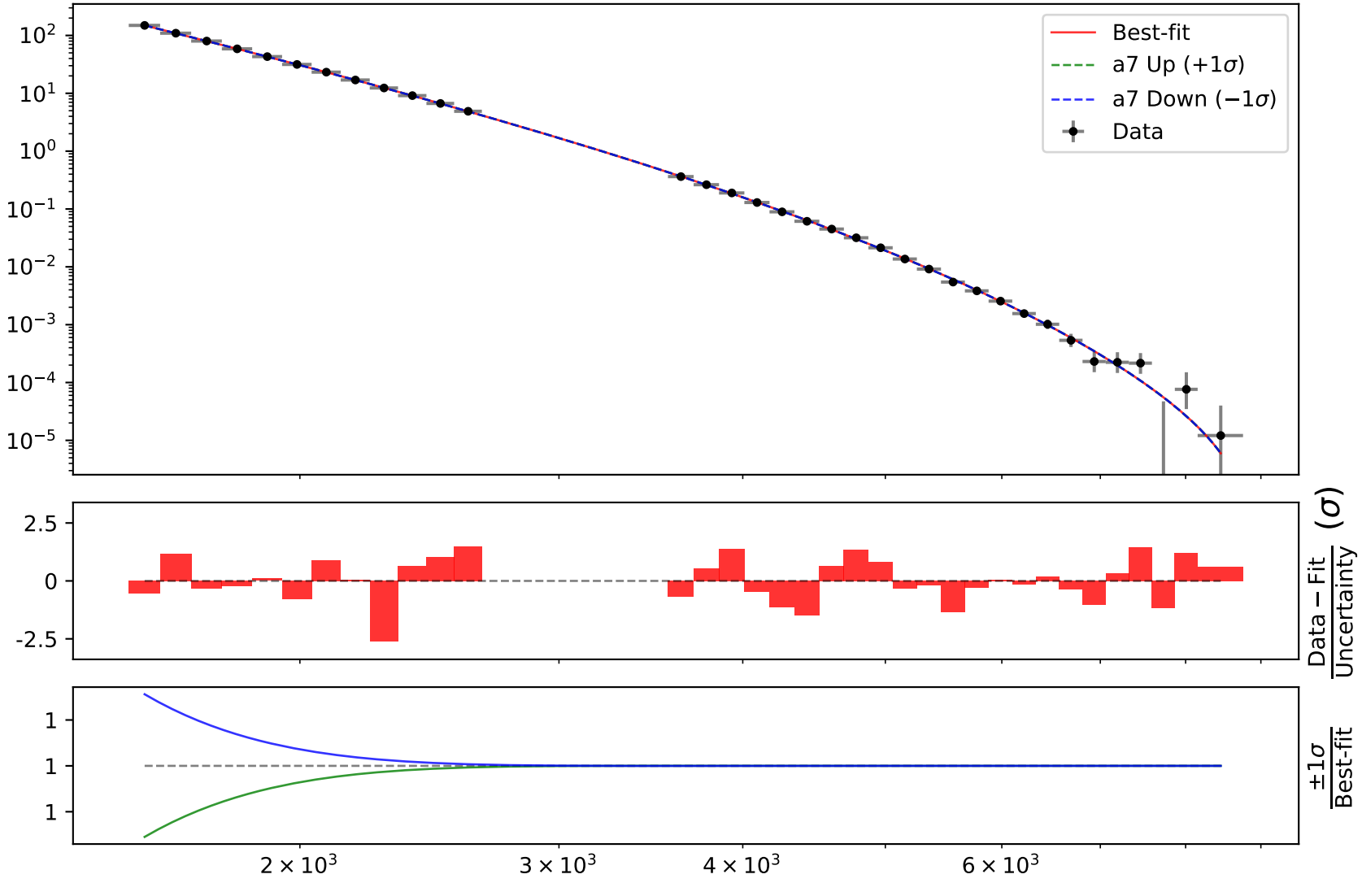


1.0*((a4*tanh(a11*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + a8*((x0 - 1568.5) * 0.000145275)**a9)*tanh(a10*a3**((x0 - 1568.5) * 0.000145275)))

$a1 = -0.235$, $a2 = -0.162$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.572234^{+0.00638(1.11\%)}_{-0.00638(1.11\%)}$,
$a7 = 1.07524^{+0.00334(0.311\%)}_{-0.00334(0.311\%)}$, $a8 = 0.391684^{+0.109(27.8\%)}_{-0.109(27.8\%)}$,
$a9 = 1.14865^{+0.365(31.8\%)}_{-0.365(31.8\%)}$, $a10 = 8.3311^{+3.16(37.9\%)}_{-3.16(37.9\%)}$,
$a11 = 8.67203^{+0.487(5.62\%)}_{-0.487(5.62\%)}$

Candidate #26

χ^2/NDF = 31.77/29, RMSE = 0.02889, R2 = 1.0

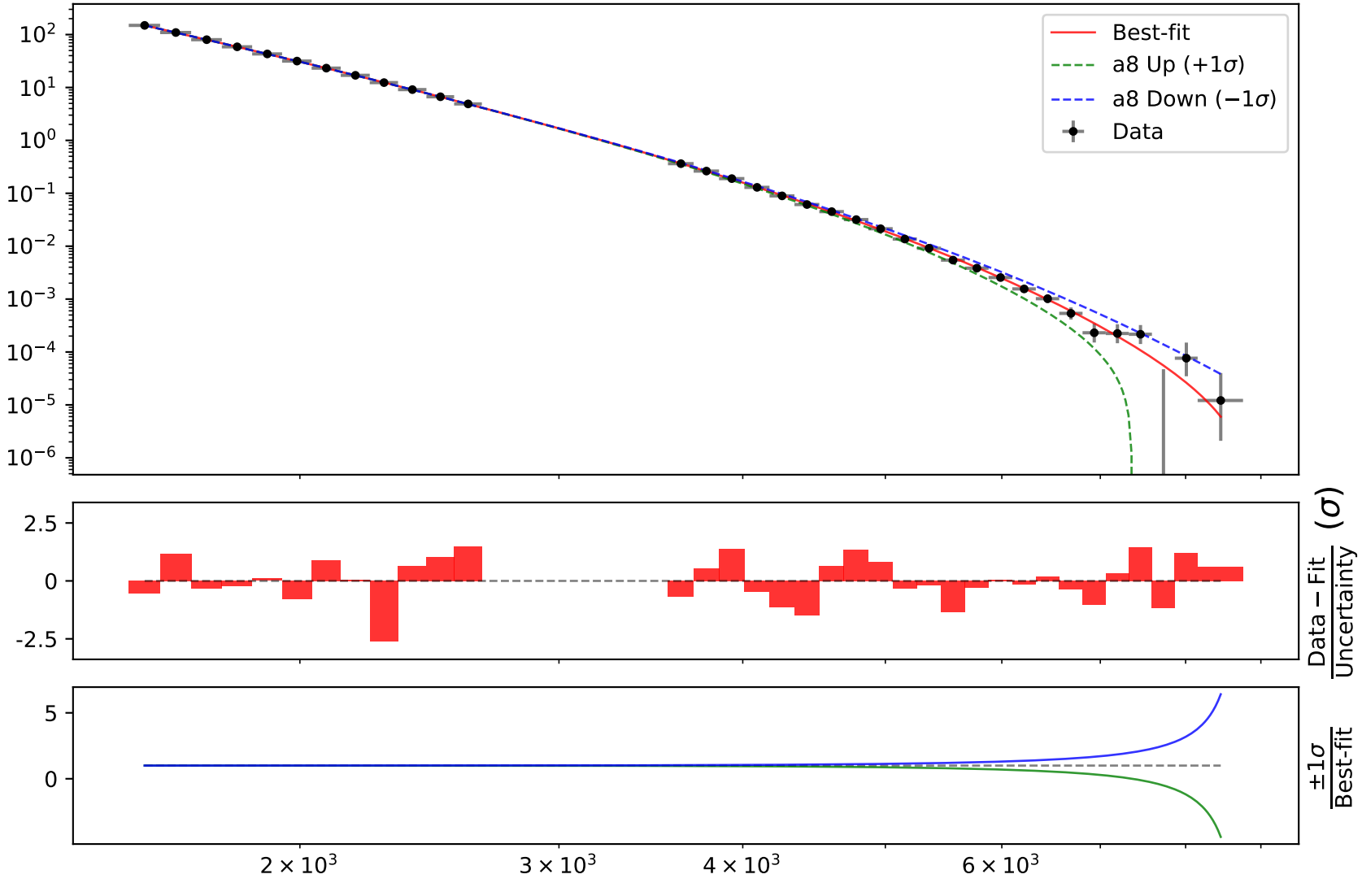


1.0*((a4*tanh(a11*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + a8*((x0 - 1568.5) * 0.000145275)**a9)*tanh(a10*a3**((x0 - 1568.5) * 0.000145275)))

$a1 = -0.235$, $a2 = -0.162$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.572234^{+0.00638(1.11\%)}_{-0.00638(1.11\%)}$,
$a7 = 1.07524^{+0.00334(0.311\%)}_{-0.00334(0.311\%)}$, $\mathbf{a8 = 0.391684^{+0.109(27.8\%)}_{-0.109(27.8\%)}}$,
$a9 = 1.14865^{+0.365(31.8\%)}_{-0.365(31.8\%)}$, $a10 = 8.3311^{+3.16(37.9\%)}_{-3.16(37.9\%)}$,
$a11 = 8.67203^{+0.487(5.62\%)}_{-0.487(5.62\%)}$

Candidate #26

χ^2/NDF = 31.77/29, RMSE = 0.02889, R2 = 1.0

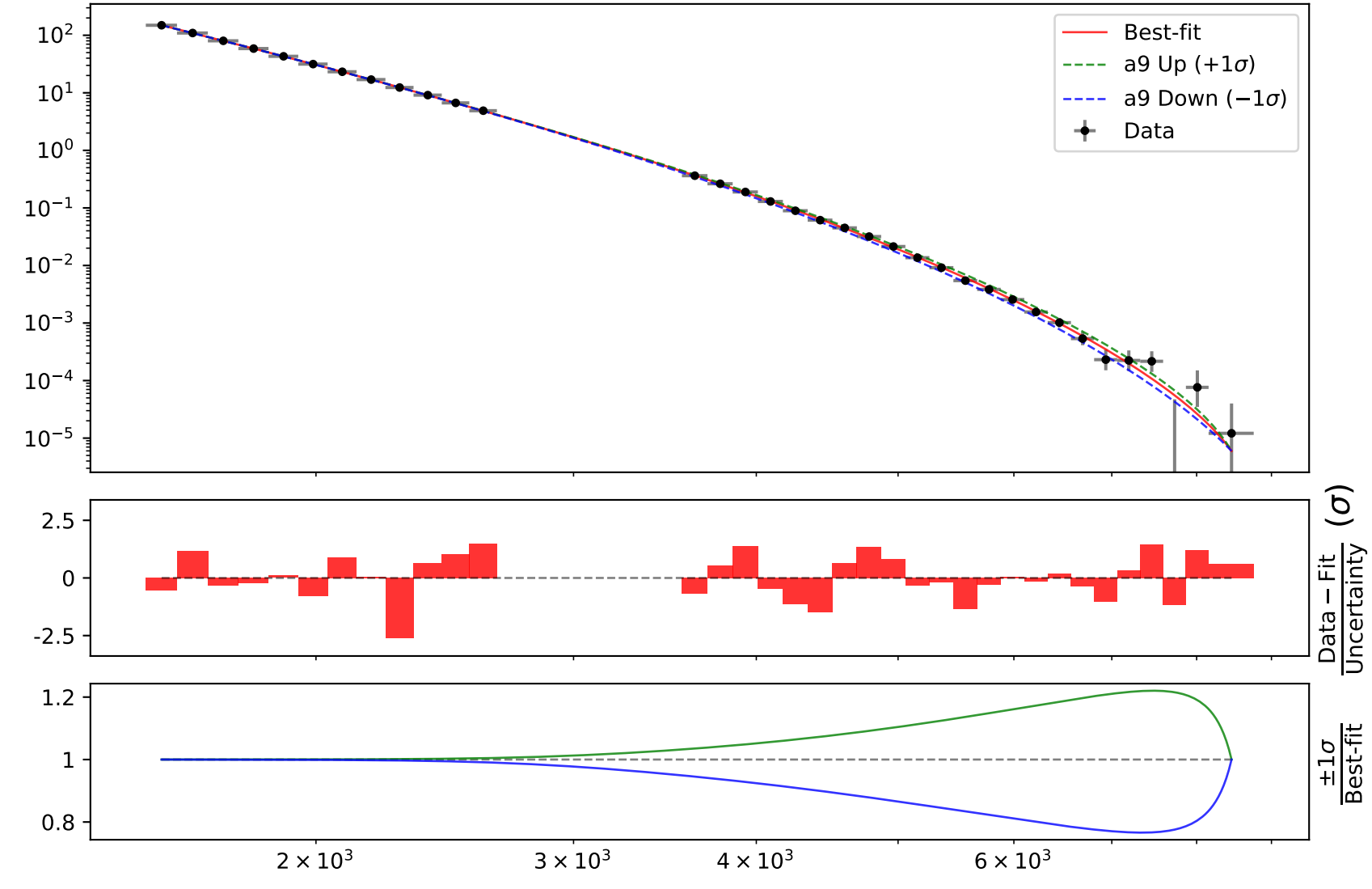


1.0*((a4*tanh(a11*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + a8*((x0 - 1568.5) * 0.000145275)**a9)*tanh(a10*a3**((x0 - 1568.5) * 0.000145275)))

$a1 = -0.235$, $a2 = -0.162$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.572234^{+0.00638(1.11\%)}_{-0.00638(1.11\%)}$,
$a7 = 1.07524^{+0.00334(0.311\%)}_{-0.00334(0.311\%)}$, $a8 = 0.391684^{+0.109(27.8\%)}_{-0.109(27.8\%)}$,
$a9 = 1.14865^{+0.365(31.8\%)}_{-0.365(31.8\%)}$, $a10 = 8.3311^{+3.16(37.9\%)}_{-3.16(37.9\%)}$,
$a11 = 8.67203^{+0.487(5.62\%)}_{-0.487(5.62\%)}$

Candidate #26

χ^2/NDF = 31.77/29, RMSE = 0.02889, R2 = 1.0

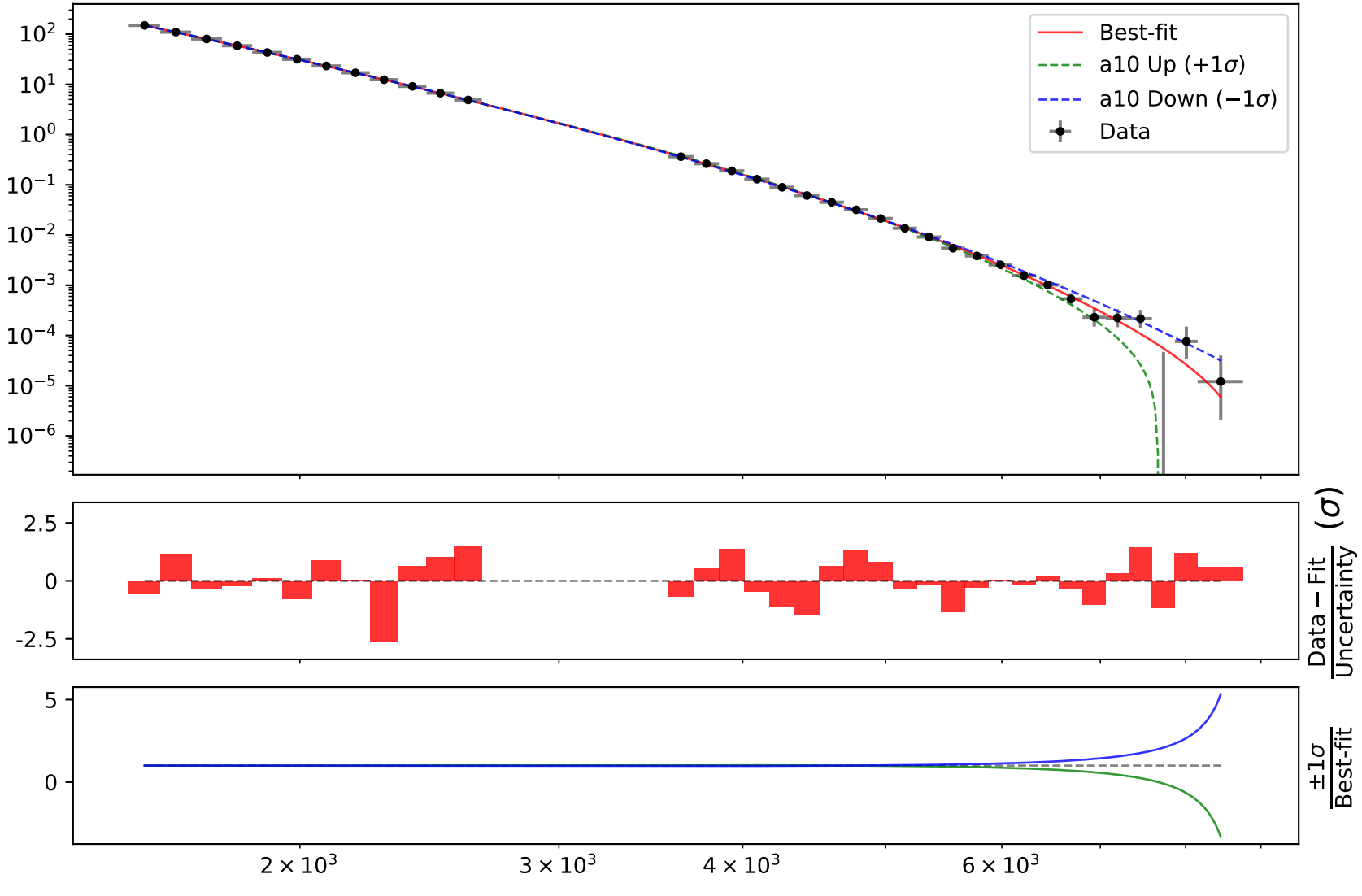


1.0*((a4*tanh(a11*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + a8*((x0 - 1568.5) * 0.000145275)**a9)*tanh(a10*a3**((x0 - 1568.5) * 0.000145275)))

$a1 = -0.235$, $a2 = -0.162$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.572234^{+0.00638(1.11\%)}_{-0.00638(1.11\%)}$,
$a7 = 1.07524^{+0.00334(0.311\%)}_{-0.00334(0.311\%)}$, $a8 = 0.391684^{+0.109(27.8\%)}_{-0.109(27.8\%)}$,
$a9 = 1.14865^{+0.365(31.8\%)}_{-0.365(31.8\%)}$, $\mathbf{a10 = 8.3311^{+3.16(37.9\%)}_{-3.16(37.9\%)}}$,
$a11 = 8.67203^{+0.487(5.62\%)}_{-0.487(5.62\%)}$

Candidate #26

χ^2/NDF = 31.77/29, RMSE = 0.02889, R2 = 1.0

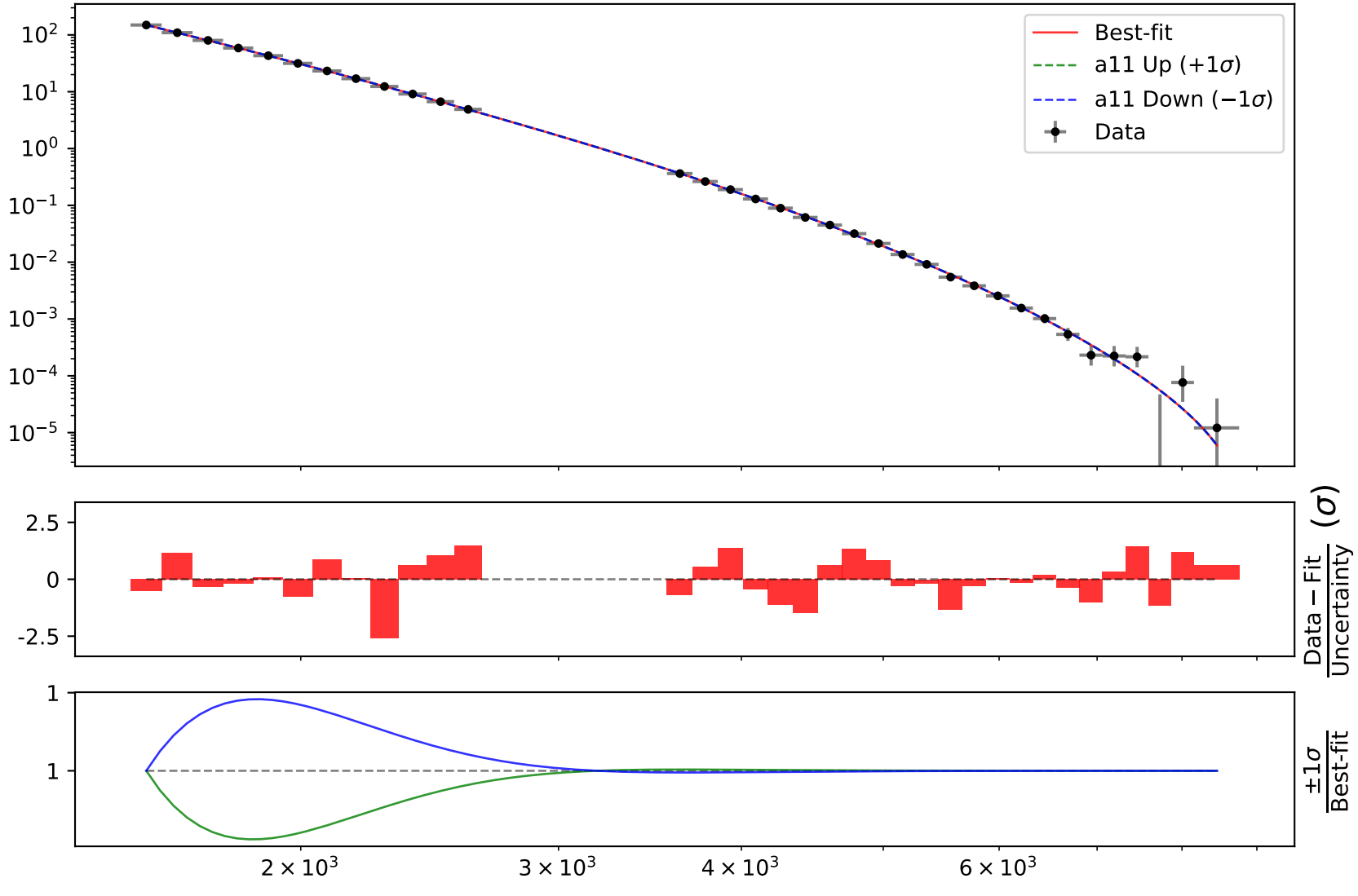


1.0*((a4*tanh(a11*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + a8*((x0 - 1568.5) * 0.000145275)**a9)*tanh(a10*a3**((x0 - 1568.5) * 0.000145275)))

$a1 = -0.235$, $a2 = -0.162$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.572234^{+0.00638(1.11\%)}_{-0.00638(1.11\%)}$,
$a7 = 1.07524^{+0.00334(0.311\%)}_{-0.00334(0.311\%)}$, $a8 = 0.391684^{+0.109(27.8\%)}_{-0.109(27.8\%)}$,
$a9 = 1.14865^{+0.365(31.8\%)}_{-0.365(31.8\%)}$, $a10 = 8.3311^{+3.16(37.9\%)}_{-3.16(37.9\%)}$,
$a11 = 8.67203^{+0.487(5.62\%)}_{-0.487(5.62\%)}$

Candidate #26

χ^2/NDF = 31.77/29, RMSE = 0.02889, R2 = 1.0



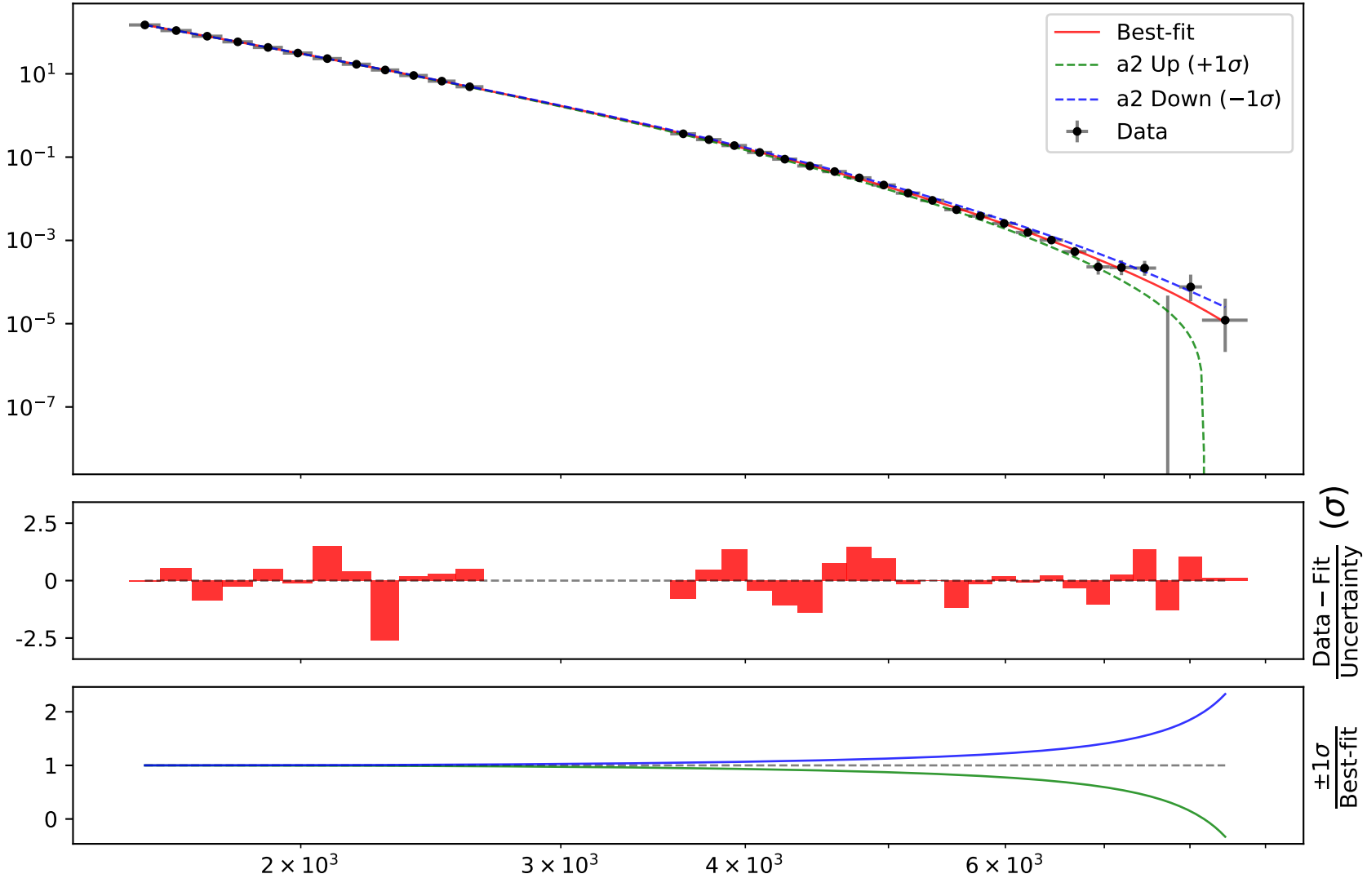
Candidate function #25

1.0*((a4*tanh(a10*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + ((x0 - 1568.5) * 0.000145275)**a8)*tanh(a3**((x0 - 1568.5) * 0.000145275)*a9))

$a1 = -0.235$, **$a2 = -0.457969^{+0.0988(21.6\%)}_{-0.0988(21.6\%)}$**,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.616511^{+0.0109(1.77\%)}_{-0.0109(1.77\%)}$,
$a7 = 1.08553^{+0.00464(0.427\%)}_{-0.00464(0.427\%)}$, $a8 = 0.856674^{+0.268(31.3\%)}_{-0.268(31.3\%)}$,
$a9 = 4.05356^{+0.681(16.8\%)}_{-0.681(16.8\%)}$, $a10 = 6.88545^{+0.61(8.86\%)}_{-0.61(8.86\%)}$

Candidate #25

χ^2/NDF = 28.64/29, RMSE = 0.02414, R2 = 1.0

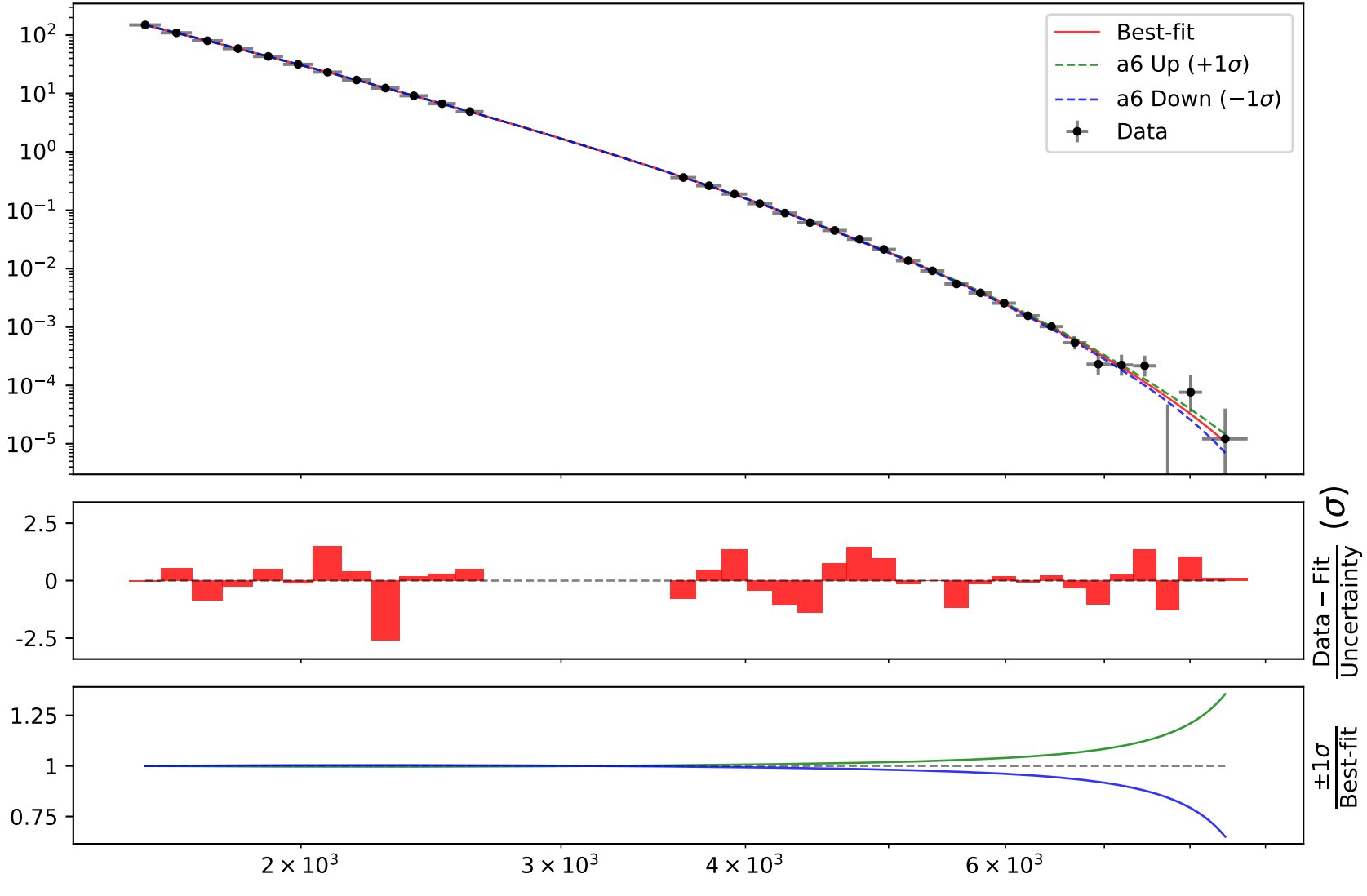


1.0*((a4*tanh(a10*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + ((x0 - 1568.5) * 0.000145275)**a8)*tanh(a3**((x0 - 1568.5) * 0.000145275)*a9))

$a1 = -0.235$, $a2 = -0.457969^{+0.0988(21.6\%)}_{-0.0988(21.6\%)}$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $\mathbf{a6 = 0.616511^{+0.0109(1.77\%)}_{-0.0109(1.77\%)}}$,
$a7 = 1.08553^{+0.00464(0.427\%)}_{-0.00464(0.427\%)}$, $a8 = 0.856674^{+0.268(31.3\%)}_{-0.268(31.3\%)}$,
$a9 = 4.05356^{+0.681(16.8\%)}_{-0.681(16.8\%)}$, $a10 = 6.88545^{+0.61(8.86\%)}_{-0.61(8.86\%)}$

Candidate #25

χ^2/NDF = 28.64/29, RMSE = 0.02414, R2 = 1.0

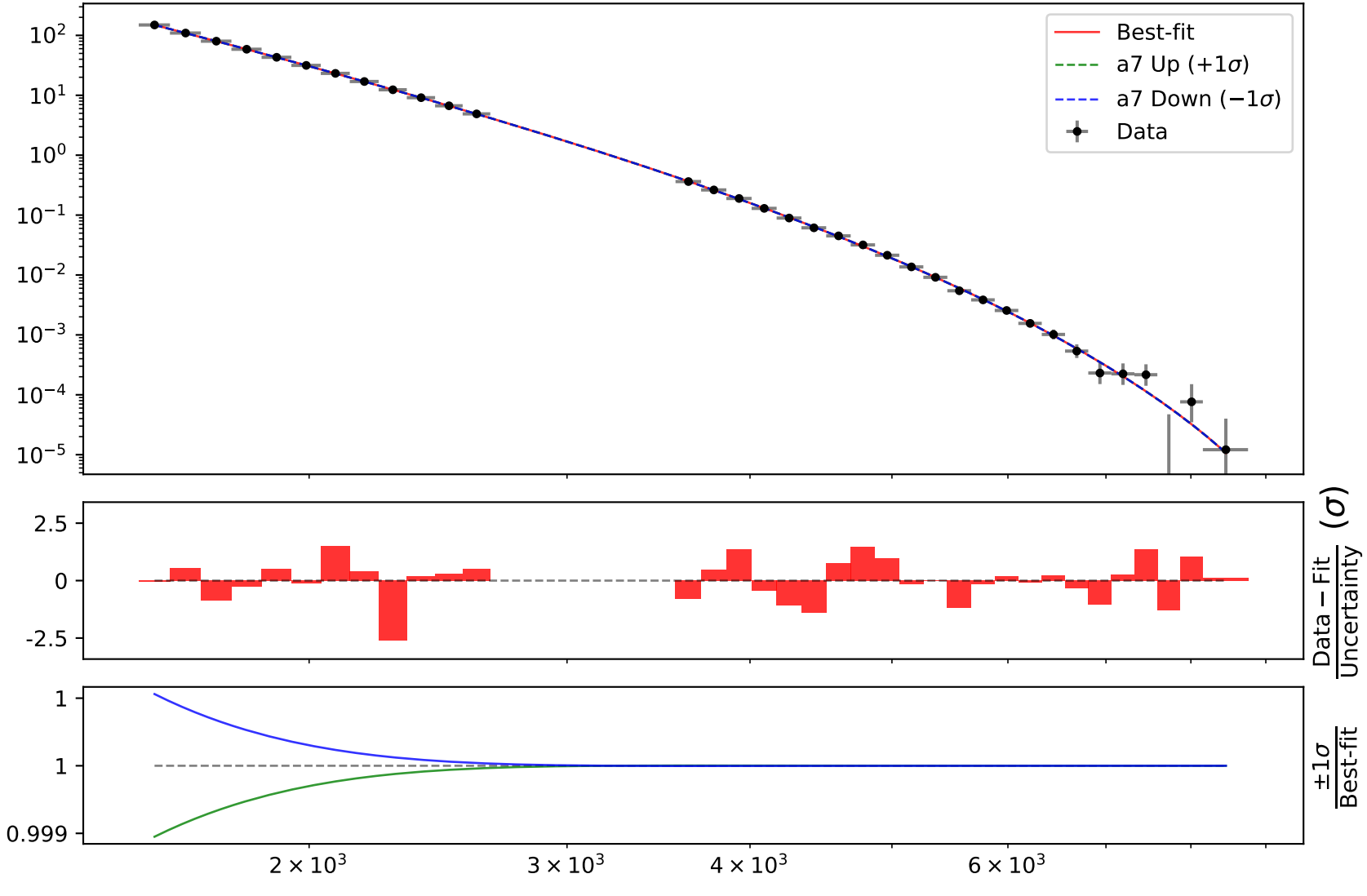


1.0*((a4*tanh(a10*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + ((x0 - 1568.5) * 0.000145275)**a8)*tanh(a3**((x0 - 1568.5) * 0.000145275)*a9))

$a1 = -0.235$, $a2 = -0.457969^{+0.0988(21.6\%)}_{-0.0988(21.6\%)}$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.616511^{+0.0109(1.77\%)}_{-0.0109(1.77\%)}$,
$a7 = 1.08553^{+0.00464(0.427\%)}_{-0.00464(0.427\%)}$, $a8 = 0.856674^{+0.268(31.3\%)}_{-0.268(31.3\%)}$,
$a9 = 4.05356^{+0.681(16.8\%)}_{-0.681(16.8\%)}$, $a10 = 6.88545^{+0.61(8.86\%)}_{-0.61(8.86\%)}$

Candidate #25

χ^2/NDF = 28.64/29, RMSE = 0.02414, R2 = 1.0

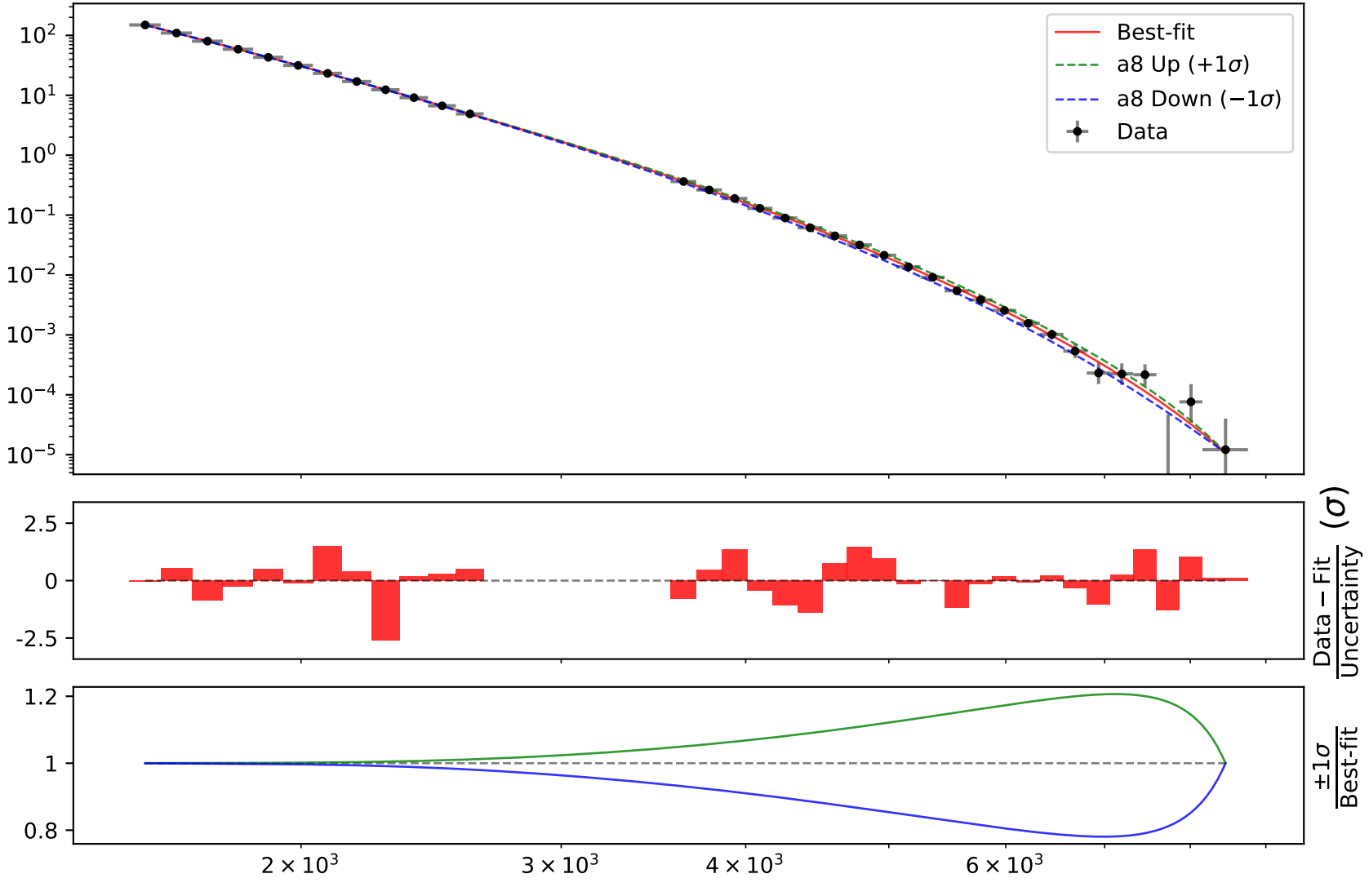


1.0*((a4*tanh(a10*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + ((x0 - 1568.5) * 0.000145275)**a8)*tanh(a3**((x0 - 1568.5) * 0.000145275)*a9))

$a1 = -0.235$, $a2 = -0.457969^{+0.0988(21.6\%)}_{-0.0988(21.6\%)}$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.616511^{+0.0109(1.77\%)}_{-0.0109(1.77\%)}$,
$a7 = 1.08553^{+0.00464(0.427\%)}_{-0.00464(0.427\%)}$, **$a8 = 0.856674^{+0.268(31.3\%)}_{-0.268(31.3\%)}$**,
$a9 = 4.05356^{+0.681(16.8\%)}_{-0.681(16.8\%)}$, $a10 = 6.88545^{+0.61(8.86\%)}_{-0.61(8.86\%)}$

Candidate #25

χ^2/NDF = 28.64/29, RMSE = 0.02414, R2 = 1.0

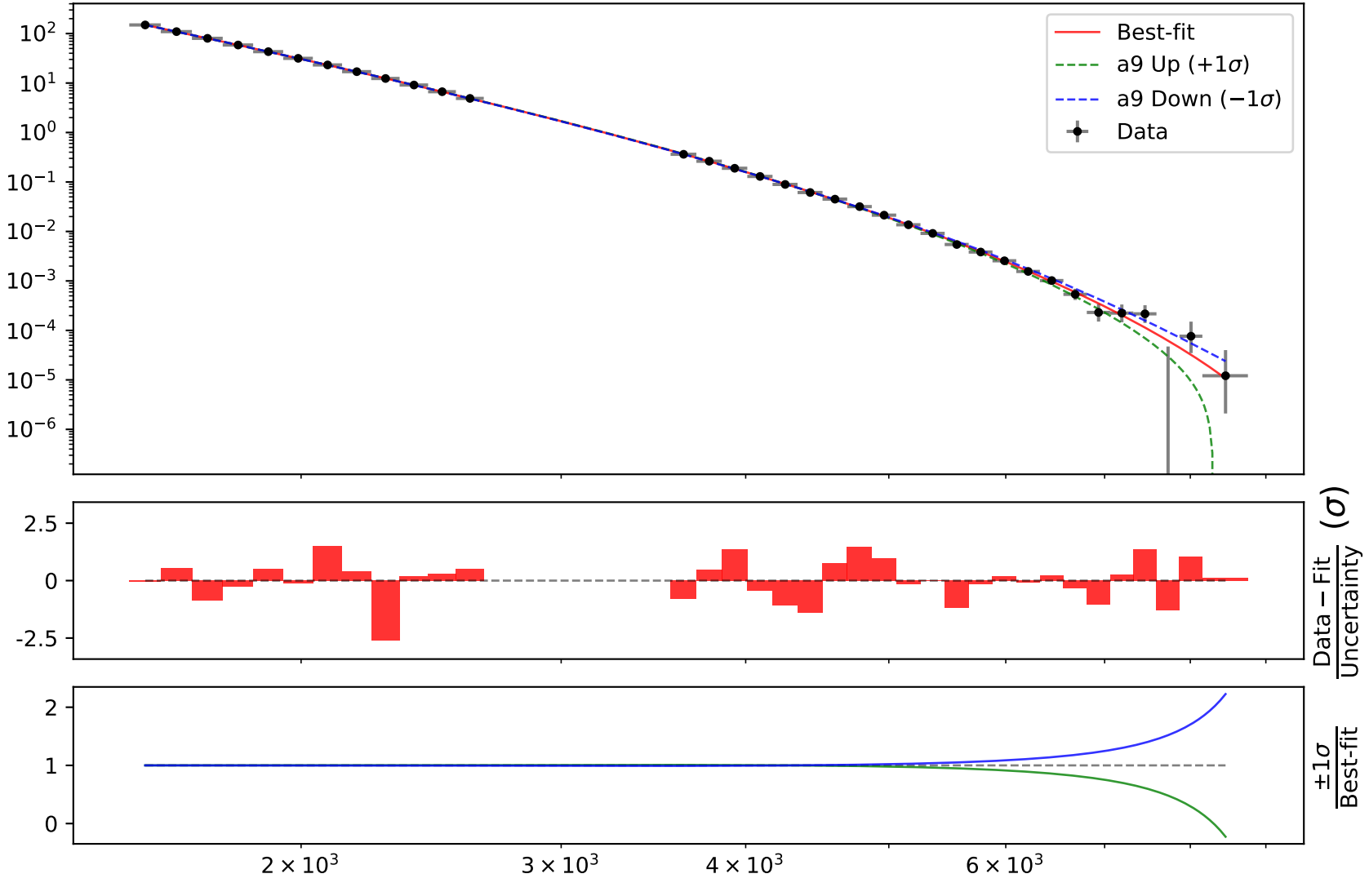


1.0*((a4*tanh(a10*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + ((x0 - 1568.5) * 0.000145275)**a8)*tanh(a3**((x0 - 1568.5) * 0.000145275)*a9))

$a1 = -0.235$, $a2 = -0.457969^{+0.0988(21.6\%)}_{-0.0988(21.6\%)}$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.616511^{+0.0109(1.77\%)}_{-0.0109(1.77\%)}$,
$a7 = 1.08553^{+0.00464(0.427\%)}_{-0.00464(0.427\%)}$, $a8 = 0.856674^{+0.268(31.3\%)}_{-0.268(31.3\%)}$,
$a9 = 4.05356^{+0.681(16.8\%)}_{-0.681(16.8\%)}$, $a10 = 6.88545^{+0.61(8.86\%)}_{-0.61(8.86\%)}$

Candidate #25

χ^2/NDF = 28.64/29, RMSE = 0.02414, R2 = 1.0

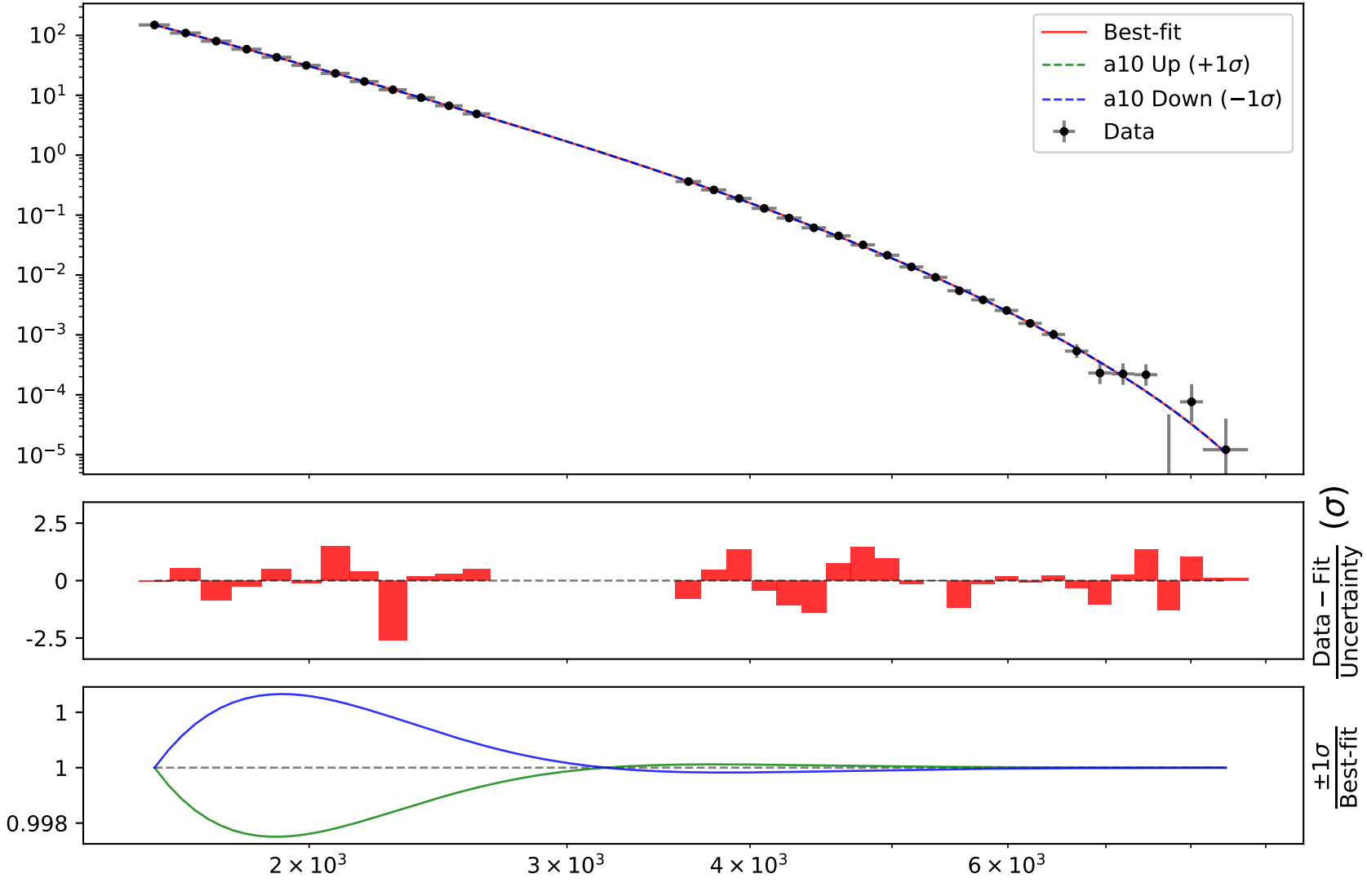


1.0*((a4*tanh(a10*((x0 - 1568.5) * 0.000145275) + a7))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))) - (a2 + ((x0 - 1568.5) * 0.000145275)**a8)*tanh(a3**((x0 - 1568.5) * 0.000145275)*a9))

$a1 = -0.235$, $a2 = -0.457969^{+0.0988(21.6\%)}_{-0.0988(21.6\%)}$,
$a3 = 3.56e-05$, $a4 = 4.98e-05$,
$a5 = 0.518$, $a6 = 0.616511^{+0.0109(1.77\%)}_{-0.0109(1.77\%)}$,
$a7 = 1.08553^{+0.00464(0.427\%)}_{-0.00464(0.427\%)}$, $a8 = 0.856674^{+0.268(31.3\%)}_{-0.268(31.3\%)}$,
$a9 = 4.05356^{+0.681(16.8\%)}_{-0.681(16.8\%)}$, **$a10 = 6.88545^{+0.61(8.86\%)}_{-0.61(8.86\%)}$**

Candidate #25

χ^2/NDF = 28.64/29, RMSE = 0.02414, R2 = 1.0



Candidate function #24

1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**exp(a7/(a6 + ((x0 - 1568.5) * 0.000145275))) + (a3*tanh(a8 + a9*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.235$,

$a3 = 3.59315e-05^{+9.28e-06(25.8\%)}_{-9.28e-06(25.8\%)}$, $a4 = 0.533074^{+0.0196(3.68\%)}_{-0.0196(3.68\%)}$,

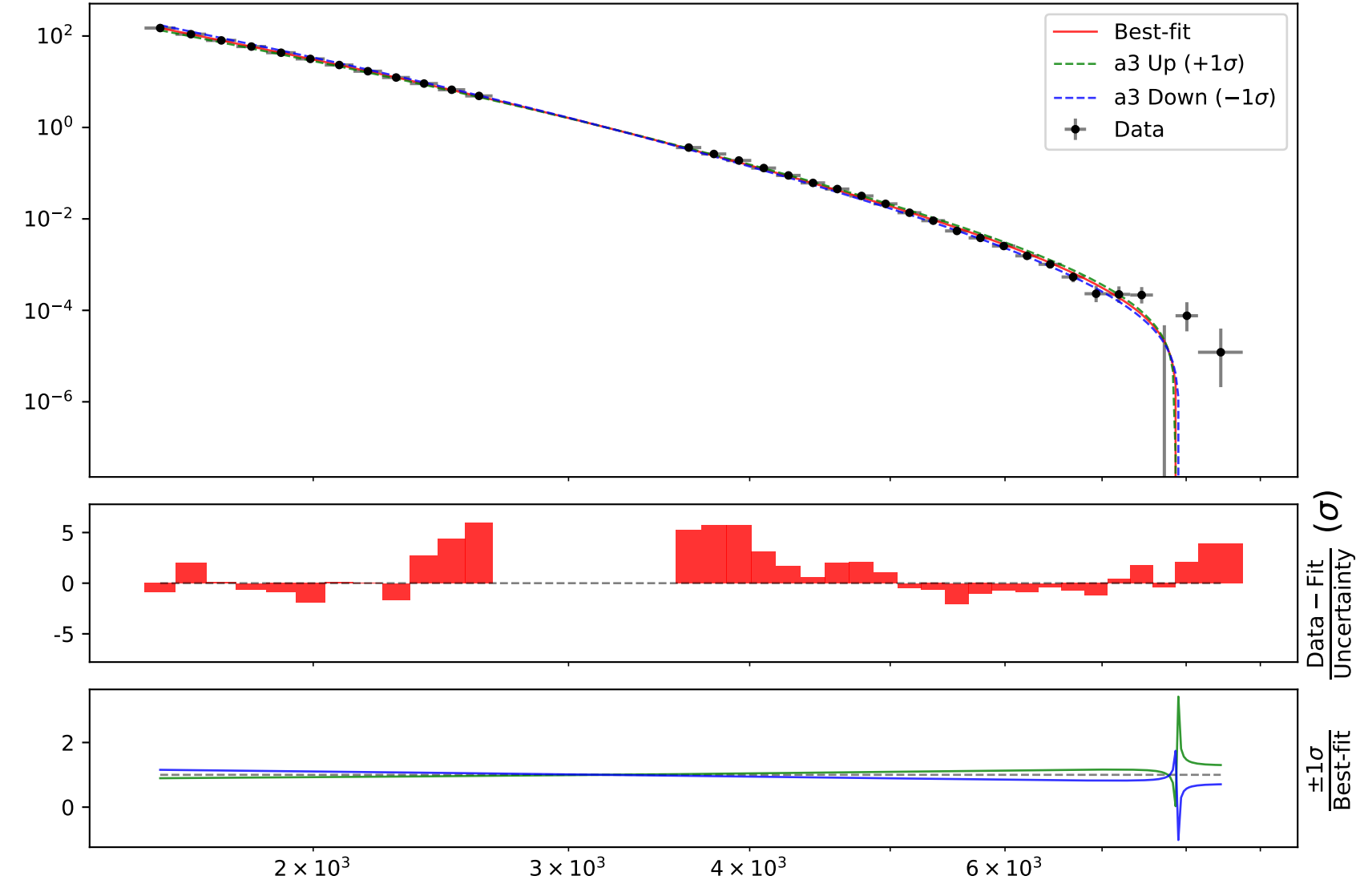
$a5 = 0.611$, $a6 = 0.864$,

$a7 = 1.88984^{+0.643(34.0\%)}_{-0.643(34.0\%)}$, $a8 = 1.27374^{+0.195(15.3\%)}_{-0.195(15.3\%)}$,

$a9 = 13.5394^{+4.89(36.1\%)}_{-4.89(36.1\%)}$

Candidate #24

χ^2/NDF = 223.3/30, RMSE = 0.05235, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**exp(a7/(a6 + ((x0 - 1568.5) * 0.000145275))) + (a3*tanh(a8 + a9*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.235$,

$a3 = 3.59315e-05^{+9.28e-06(25.8\%)}_{-9.28e-06(25.8\%)}$, **$a4 = 0.533074^{+0.0196(3.68\%)}_{-0.0196(3.68\%)}$**,

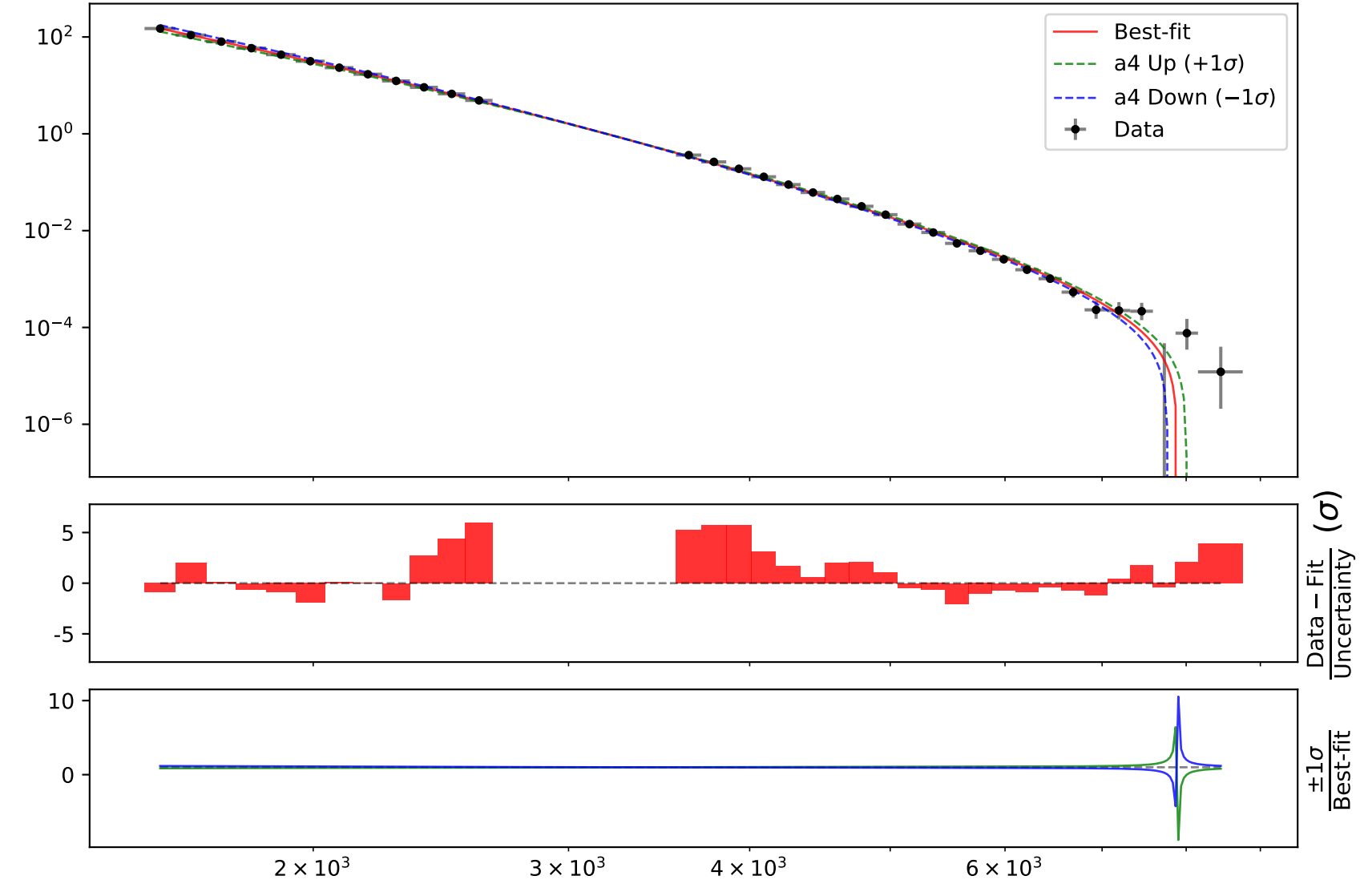
$a5 = 0.611$, $a6 = 0.864$,

$a7 = 1.88984^{+0.643(34.0\%)}_{-0.643(34.0\%)}$, $a8 = 1.27374^{+0.195(15.3\%)}_{-0.195(15.3\%)}$,

$a9 = 13.5394^{+4.89(36.1\%)}_{-4.89(36.1\%)}$

Candidate #24

χ^2/NDF = 223.3/30, RMSE = 0.05235, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**exp(a7/(a6 + ((x0 - 1568.5) * 0.000145275))) + (a3*tanh(a8 + a9*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.235$,

$a3 = 3.59315e-05^{+9.28e-06(25.8\%)}_{-9.28e-06(25.8\%)}$, $a4 = 0.533074^{+0.0196(3.68\%)}_{-0.0196(3.68\%)}$,

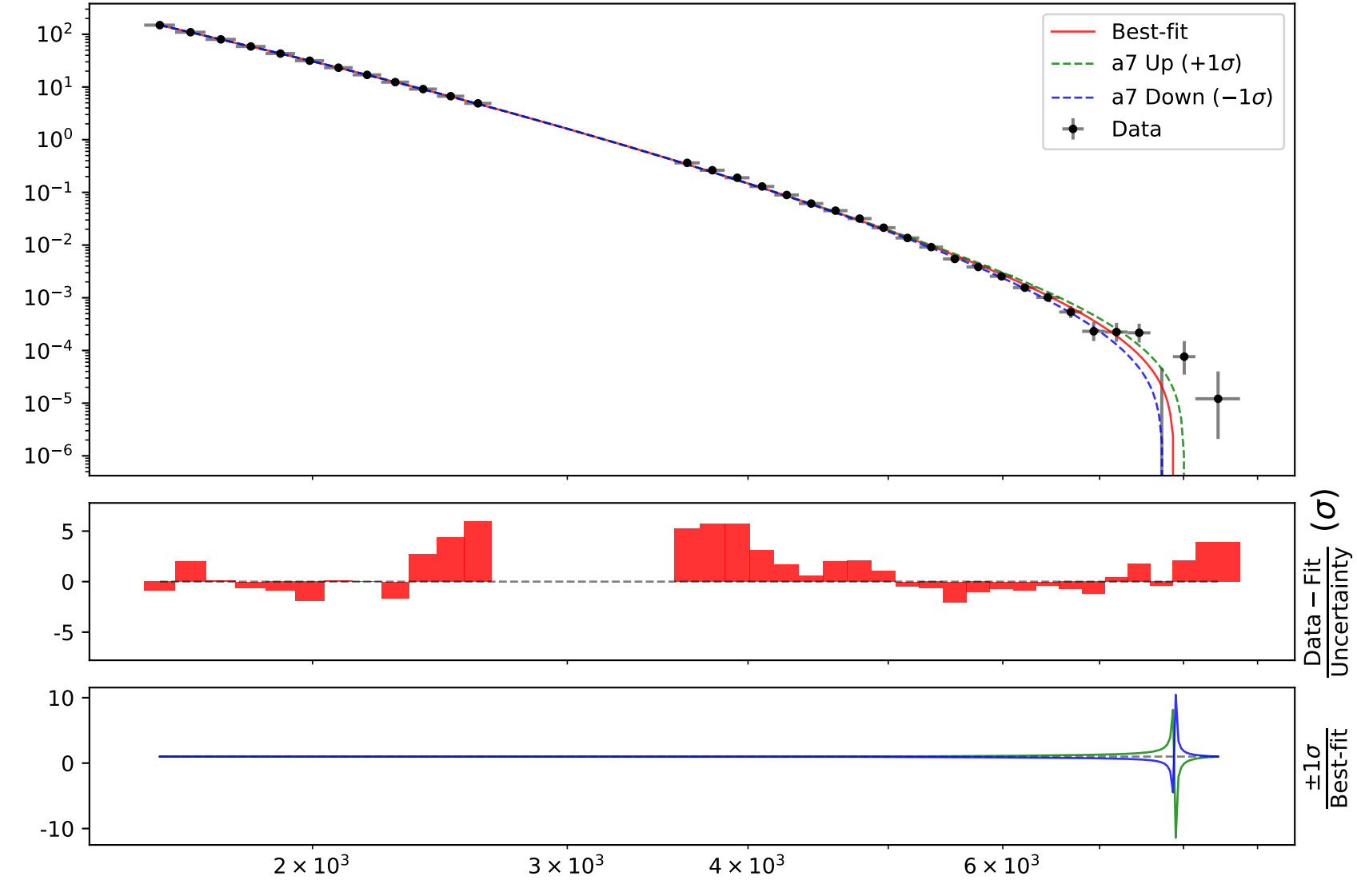
$a5 = 0.611$, $a6 = 0.864$,

$a7 = 1.88984^{+0.643(34.0\%)}_{-0.643(34.0\%)}$, $a8 = 1.27374^{+0.195(15.3\%)}_{-0.195(15.3\%)}$,

$a9 = 13.5394^{+4.89(36.1\%)}_{-4.89(36.1\%)}$

Candidate #24

χ^2/NDF = 223.3/30, RMSE = 0.05235, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**exp(a7/(a6 + ((x0 - 1568.5) * 0.000145275))) + (a3*tanh(a8 + a9*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.235$,

$a3 = 3.59315e-05^{+9.28e-06(25.8\%)}_{-9.28e-06(25.8\%)}$, $a4 = 0.533074^{+0.0196(3.68\%)}_{-0.0196(3.68\%)}$,

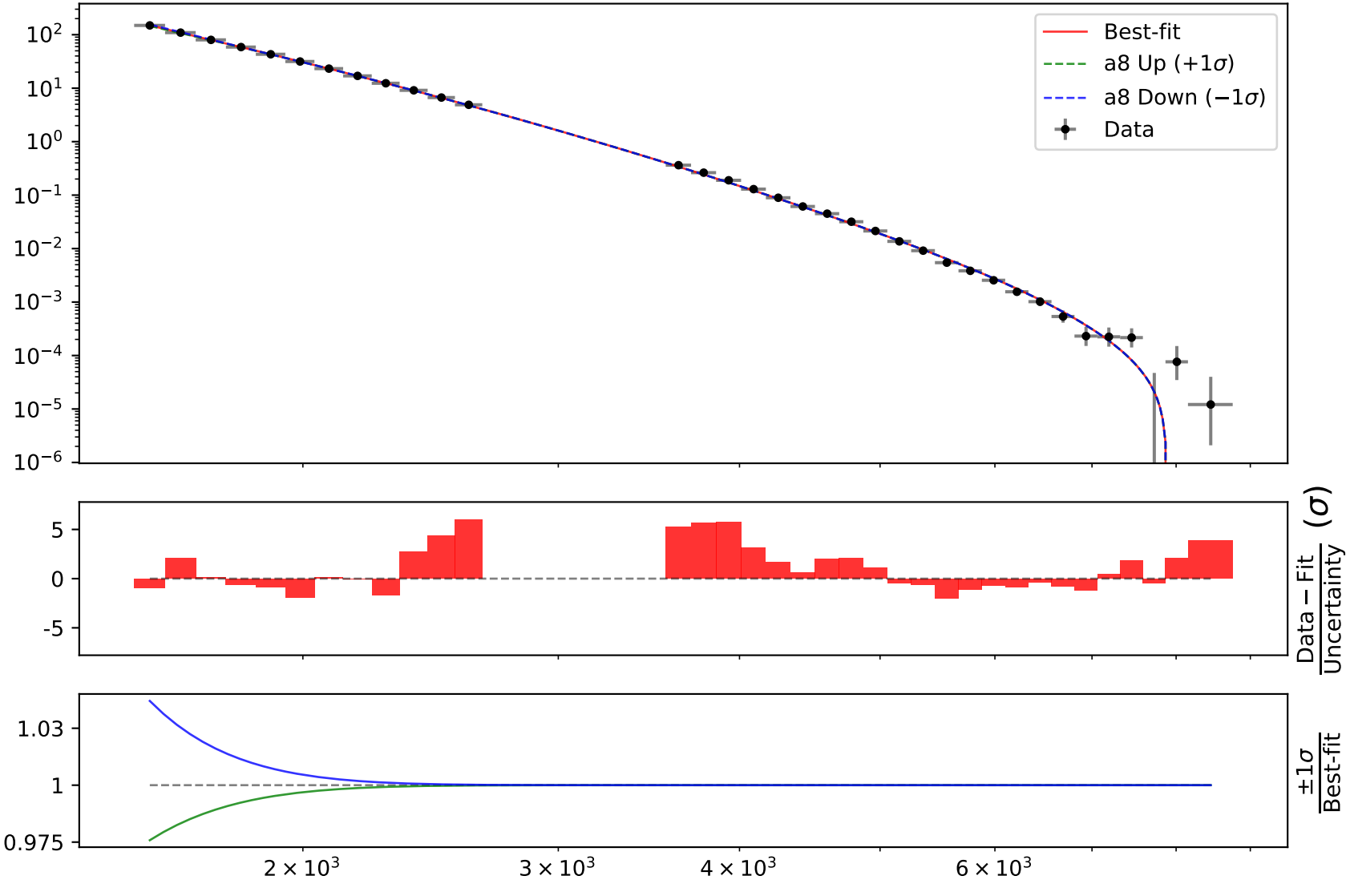
$a5 = 0.611$, $a6 = 0.864$,

$a7 = 1.88984^{+0.643(34.0\%)}_{-0.643(34.0\%)}$, $\mathbf{a8 = 1.27374^{+0.195(15.3\%)}_{-0.195(15.3\%)}}$,

$a9 = 13.5394^{+4.89(36.1\%)}_{-4.89(36.1\%)}$

Candidate #24

χ^2/NDF = 223.3/30, RMSE = 0.05235, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**exp(a7/(a6 + ((x0 - 1568.5) * 0.000145275))) + (a3*tanh(a8 + a9*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64,\ a2 = -0.235,$

$a3 = 3.59315e-05^{+9.28e-06(25.8\%)}_{-9.28e-06(25.8\%)},\ a4 = 0.533074^{+0.0196(3.68\%)}_{-0.0196(3.68\%)},$

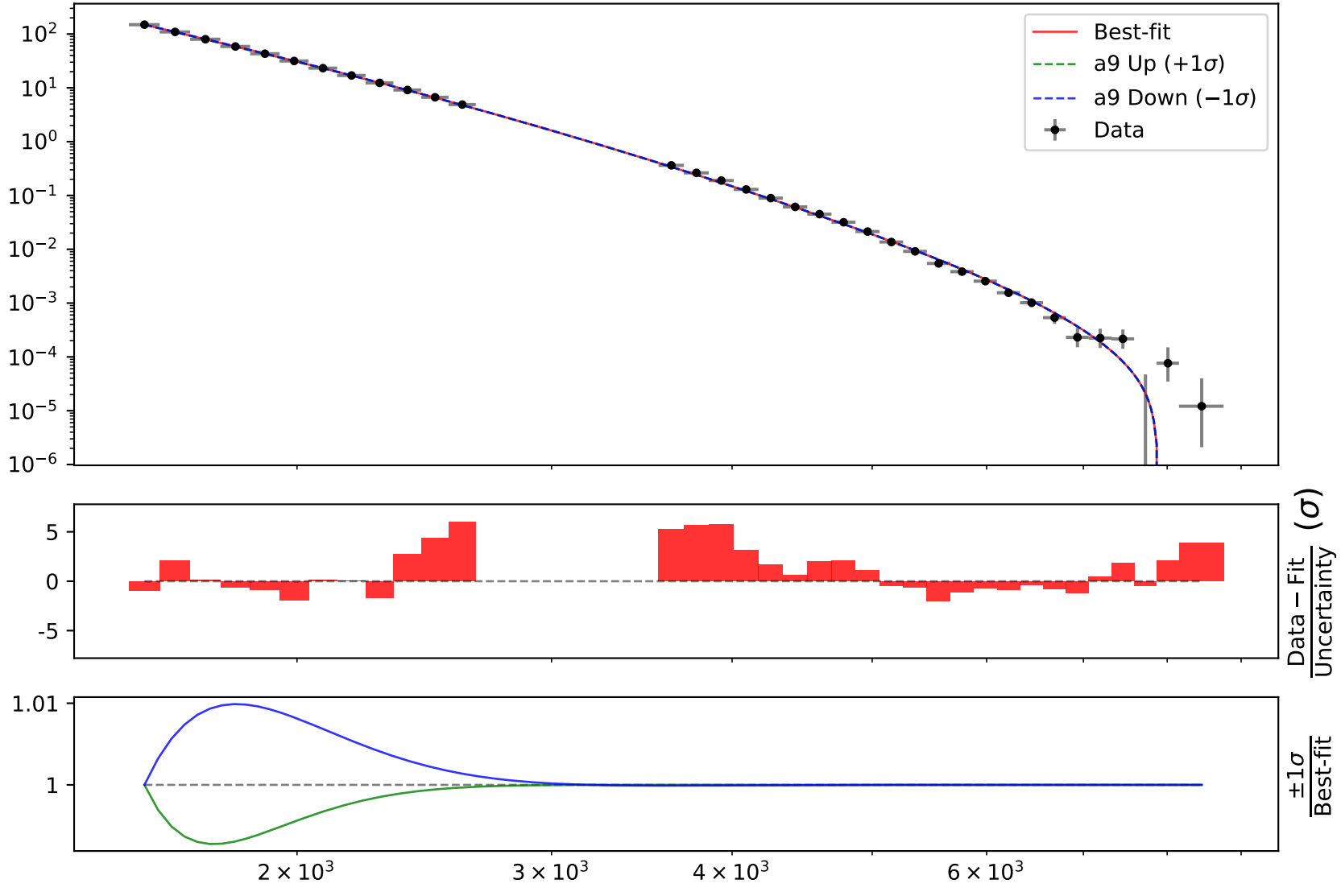
$a5 = 0.611,\ a6 = 0.864,$

$a7 = 1.88984^{+0.643(34.0\%)}_{-0.643(34.0\%)},\ a8 = 1.27374^{+0.195(15.3\%)}_{-0.195(15.3\%)},$

$a9 = 13.5394^{+4.89(36.1\%)}_{-4.89(36.1\%)}$

Candidate #24

χ^2/NDF = 223.3/30, RMSE = 0.05235, R2 = 1.0



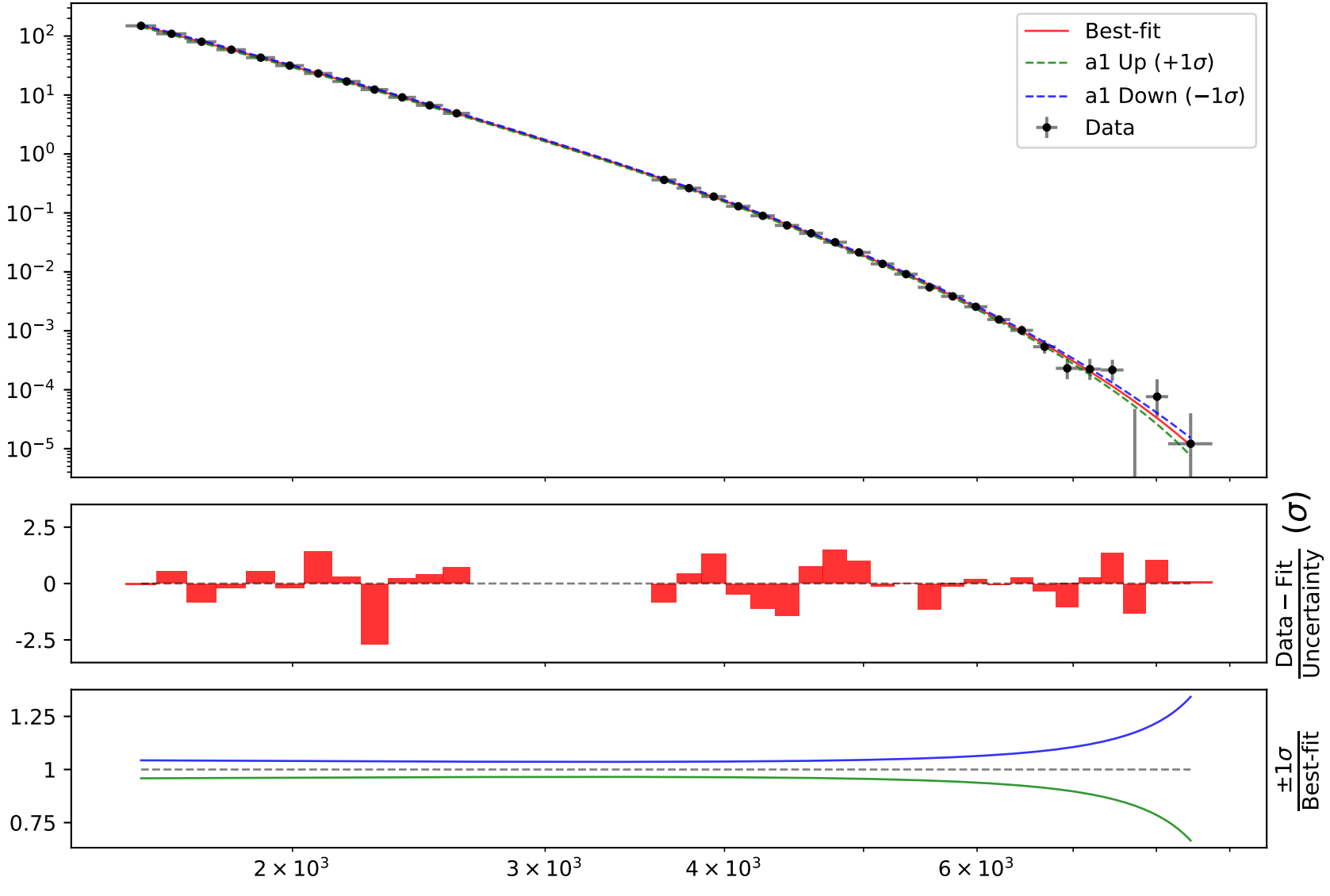
Candidate function #23

1.0*(-((x0 - 1568.5) * 0.000145275)**a7*tanh(a2**((x0 - 1568.5) * 0.000145275)*a6) + (a2*tanh(a5 + a8*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

a1 = $-0.242435^{+0.00205(0.846\%)}_{-0.00205(0.846\%)}$, $a2 = 4.98e-05$,
$a3 = 0.536846^{+0.00547(1.02\%)}_{-0.00547(1.02\%)}$, $a4 = 0.757678^{+0.0617(8.14\%)}_{-0.0617(8.14\%)}$,
$a5 = 1.1$, $a6 = 3.03687^{+0.576(19.0\%)}_{-0.576(19.0\%)}$,
$a7 = 0.978795^{+0.2(20.4\%)}_{-0.2(20.4\%)}$, $a8 = 5.71013^{+1.33(23.3\%)}_{-1.33(23.3\%)}$

Candidate #23

χ^2/NDF = 28.83/29, RMSE = 0.02355, R2 = 1.0



1.0*(-((x0 - 1568.5) * 0.000145275)**a7*tanh(a2**((x0 - 1568.5) * 0.000145275)*a6) + (a2*tanh(a5 + a8*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.242435^{+0.00205(0.846\%)}_{-0.00205(0.846\%)}$, $a2 = 4.98e-05$,

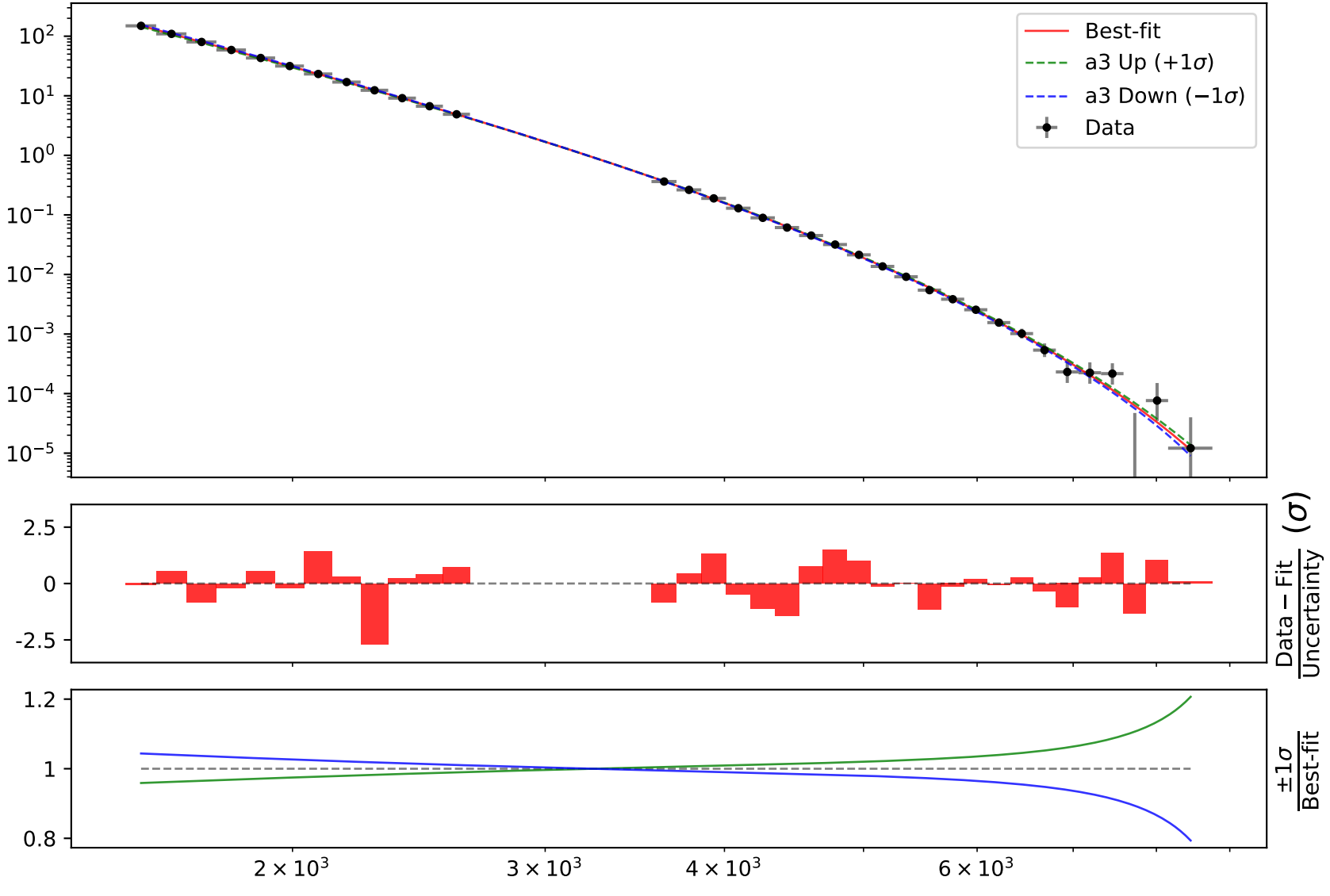
$a3 = 0.536846^{+0.00547(1.02\%)}_{-0.00547(1.02\%)}$, $a4 = 0.757678^{+0.0617(8.14\%)}_{-0.0617(8.14\%)}$,

$a5 = 1.1$, $a6 = 3.03687^{+0.576(19.0\%)}_{-0.576(19.0\%)}$,

$a7 = 0.978795^{+0.2(20.4\%)}_{-0.2(20.4\%)}$, $a8 = 5.71013^{+1.33(23.3\%)}_{-1.33(23.3\%)}$

Candidate #23

χ^2/NDF = 28.83/29, RMSE = 0.02355, R2 = 1.0

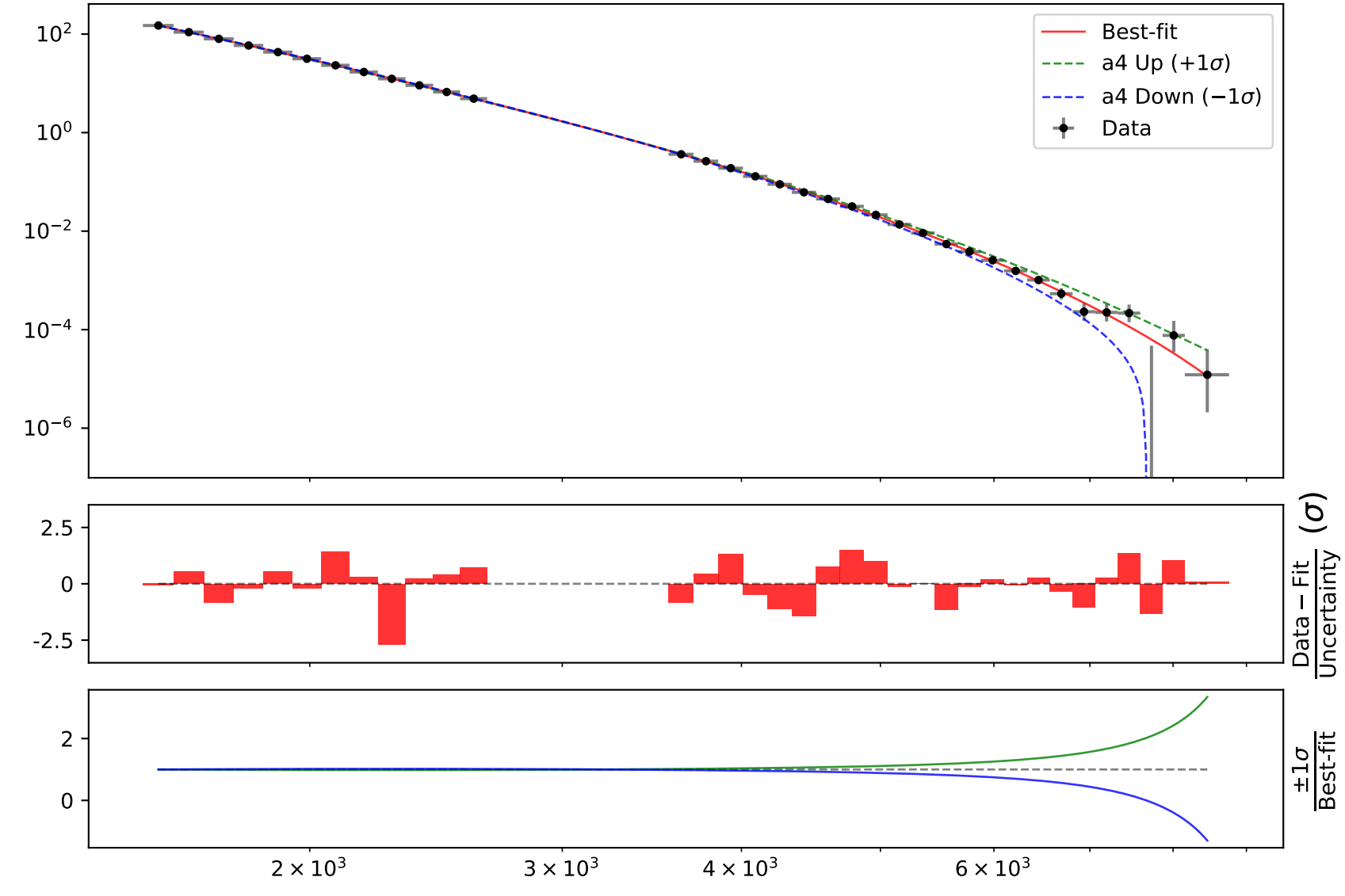


1.0*(-((x0 - 1568.5) * 0.000145275)**a7*tanh(a2**((x0 - 1568.5) * 0.000145275)*a6) + (a2*tanh(a5 + a8*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.242435^{+0.00205(0.846\%)}_{-0.00205(0.846\%)}$, $a2 = 4.98e-05$,
$a3 = 0.536846^{+0.00547(1.02\%)}_{-0.00547(1.02\%)}$, $\mathbf{a4 = 0.757678^{+0.0617(8.14\%)}_{-0.0617(8.14\%)}}$,
$a5 = 1.1$, $a6 = 3.03687^{+0.576(19.0\%)}_{-0.576(19.0\%)}$,
$a7 = 0.978795^{+0.2(20.4\%)}_{-0.2(20.4\%)}$, $a8 = 5.71013^{+1.33(23.3\%)}_{-1.33(23.3\%)}$

Candidate #23

χ^2/NDF = 28.83/29, RMSE = 0.02355, R2 = 1.0

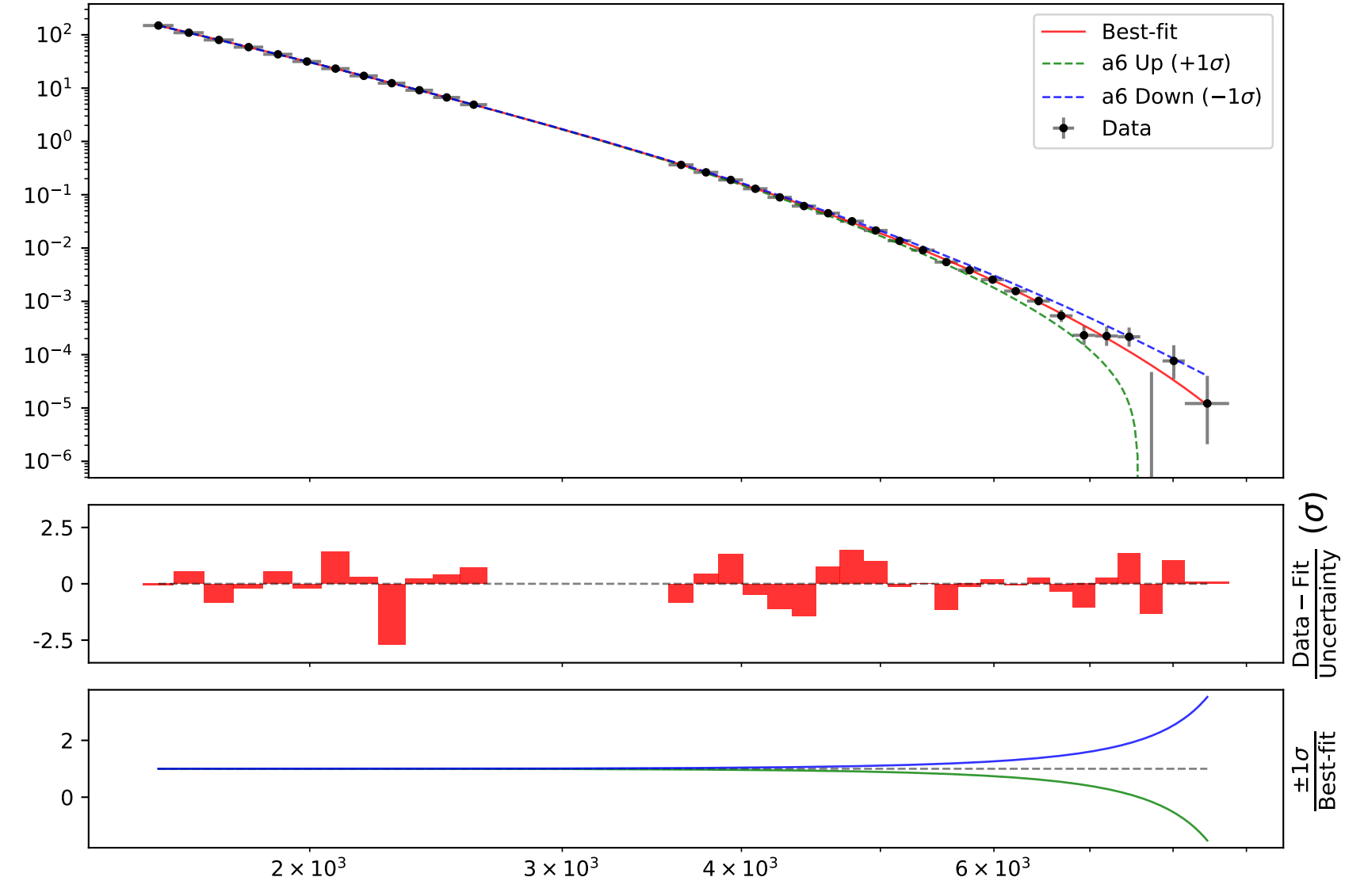


1.0*(-((x0 - 1568.5) * 0.000145275)**a7*tanh(a2**((x0 - 1568.5) * 0.000145275)*a6) + (a2*tanh(a5 + a8*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.242435^{+0.00205(0.846\%)}_{-0.00205(0.846\%)}$, $a2 = 4.98e-05$,
$a3 = 0.536846^{+0.00547(1.02\%)}_{-0.00547(1.02\%)}$, $a4 = 0.757678^{+0.0617(8.14\%)}_{-0.0617(8.14\%)}$,
$a5 = 1.1$, $\mathbf{a6 = 3.03687^{+0.576(19.0\%)}_{-0.576(19.0\%)}}$,
$a7 = 0.978795^{+0.2(20.4\%)}_{-0.2(20.4\%)}$, $a8 = 5.71013^{+1.33(23.3\%)}_{-1.33(23.3\%)}$

Candidate #23

χ^2/NDF = 28.83/29, RMSE = 0.02355, R2 = 1.0



1.0*(-((x0 - 1568.5) * 0.000145275)**a7*tanh(a2**((x0 - 1568.5) * 0.000145275)*a6) + (a2*tanh(a5 + a8*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.242435^{+0.00205(0.846\%)}_{-0.00205(0.846\%)}$, $a2 = 4.98e-05$,

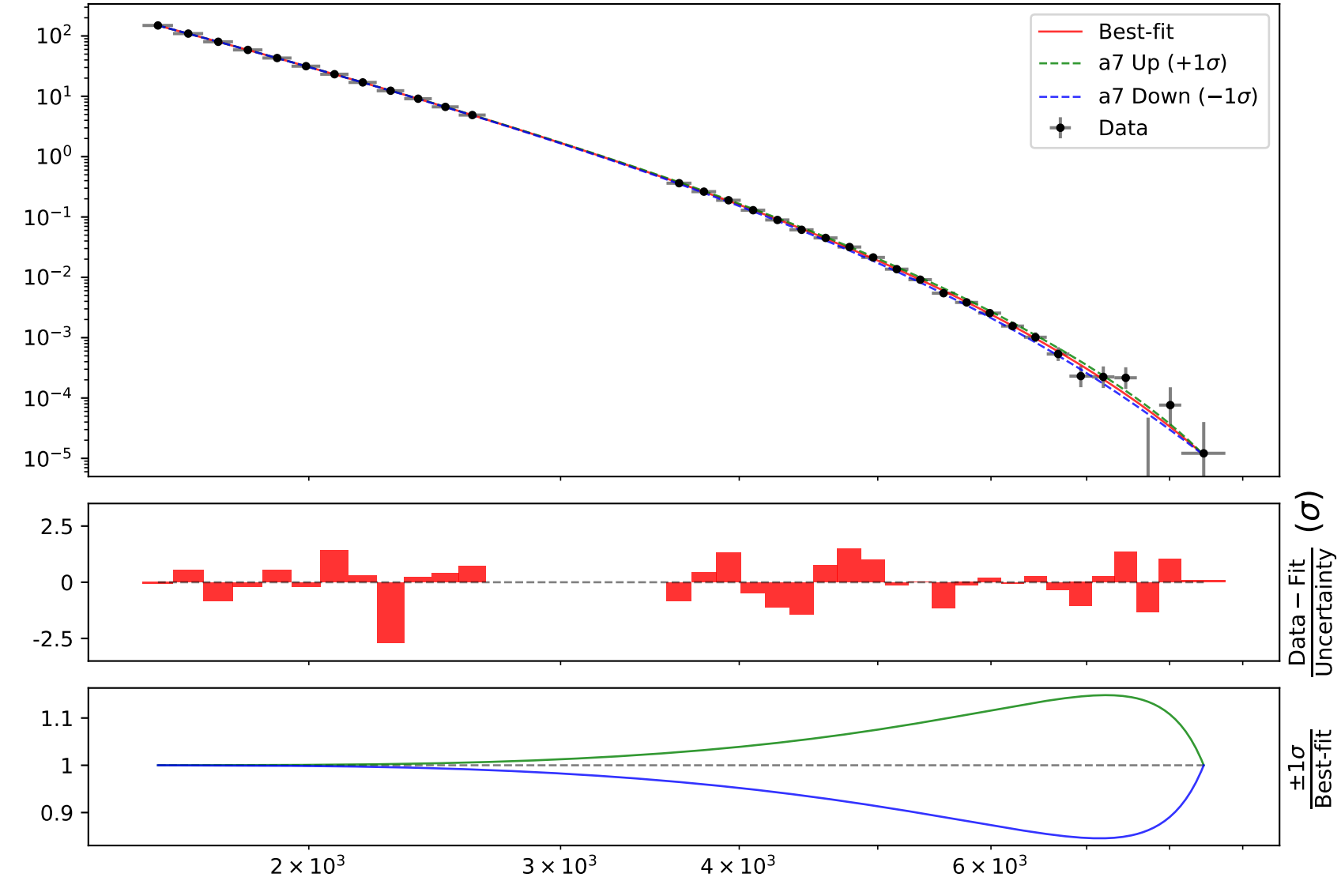
$a3 = 0.536846^{+0.00547(1.02\%)}_{-0.00547(1.02\%)}$, $a4 = 0.757678^{+0.0617(8.14\%)}_{-0.0617(8.14\%)}$,

$a5 = 1.1$, $a6 = 3.03687^{+0.576(19.0\%)}_{-0.576(19.0\%)}$,

$a7 = 0.978795^{+0.2(20.4\%)}_{-0.2(20.4\%)}$, $a8 = 5.71013^{+1.33(23.3\%)}_{-1.33(23.3\%)}$

Candidate #23

χ^2/NDF = 28.83/29, RMSE = 0.02355, R2 = 1.0

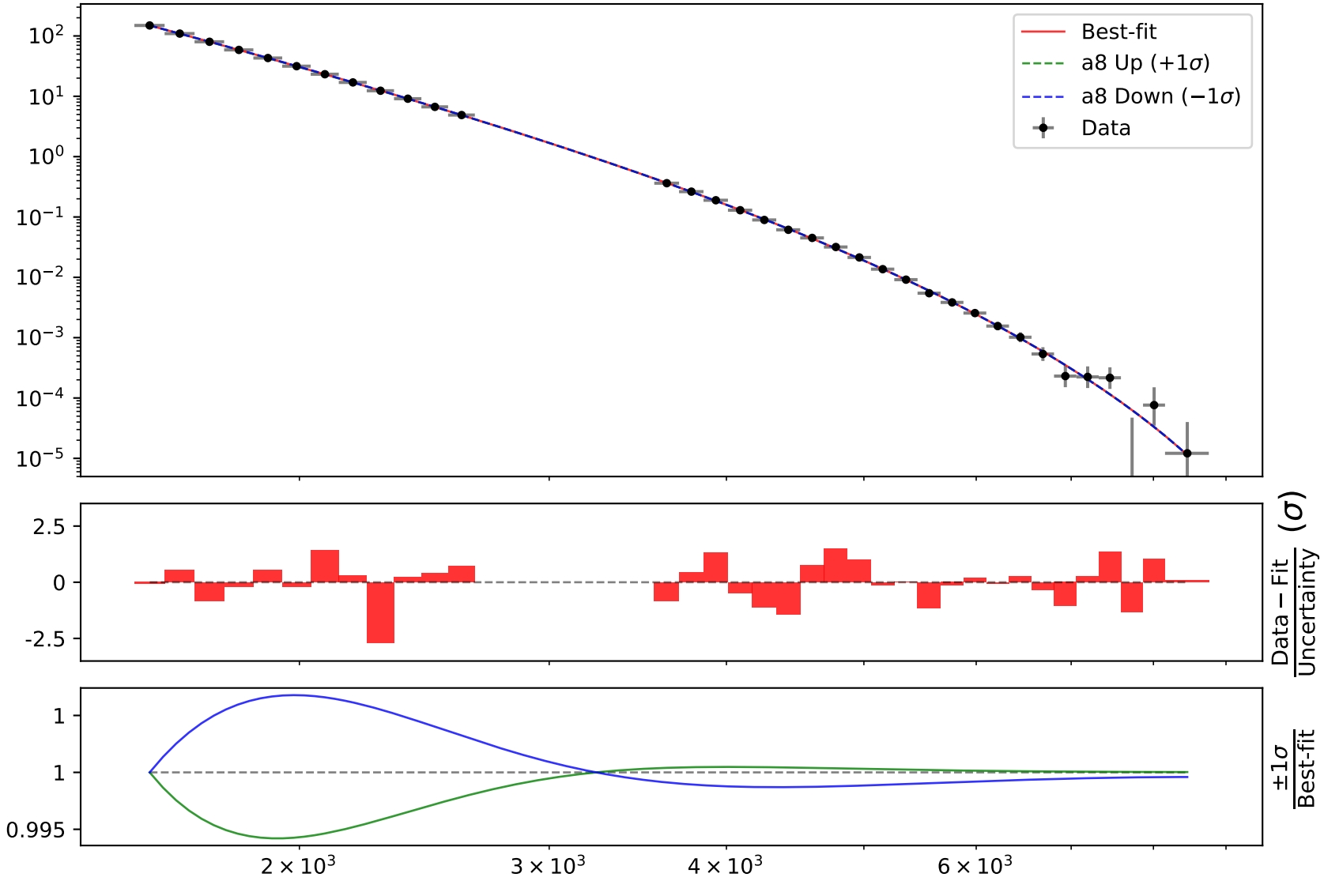


1.0*(-((x0 - 1568.5) * 0.000145275)**a7*tanh(a2**((x0 - 1568.5) * 0.000145275)*a6) + (a2*tanh(a5 + a8*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.242435^{+0.00205(0.846\%)}_{-0.00205(0.846\%)}$, $a2 = 4.98e-05$,
$a3 = 0.536846^{+0.00547(1.02\%)}_{-0.00547(1.02\%)}$, $a4 = 0.757678^{+0.0617(8.14\%)}_{-0.0617(8.14\%)}$,
$a5 = 1.1$, $a6 = 3.03687^{+0.576(19.0\%)}_{-0.576(19.0\%)}$,
$a7 = 0.978795^{+0.2(20.4\%)}_{-0.2(20.4\%)}$, $\mathbf{a8 = 5.71013^{+1.33(23.3\%)}_{-1.33(23.3\%)}}$

Candidate #23

χ^2/NDF = 28.83/29, RMSE = 0.02355, R2 = 1.0



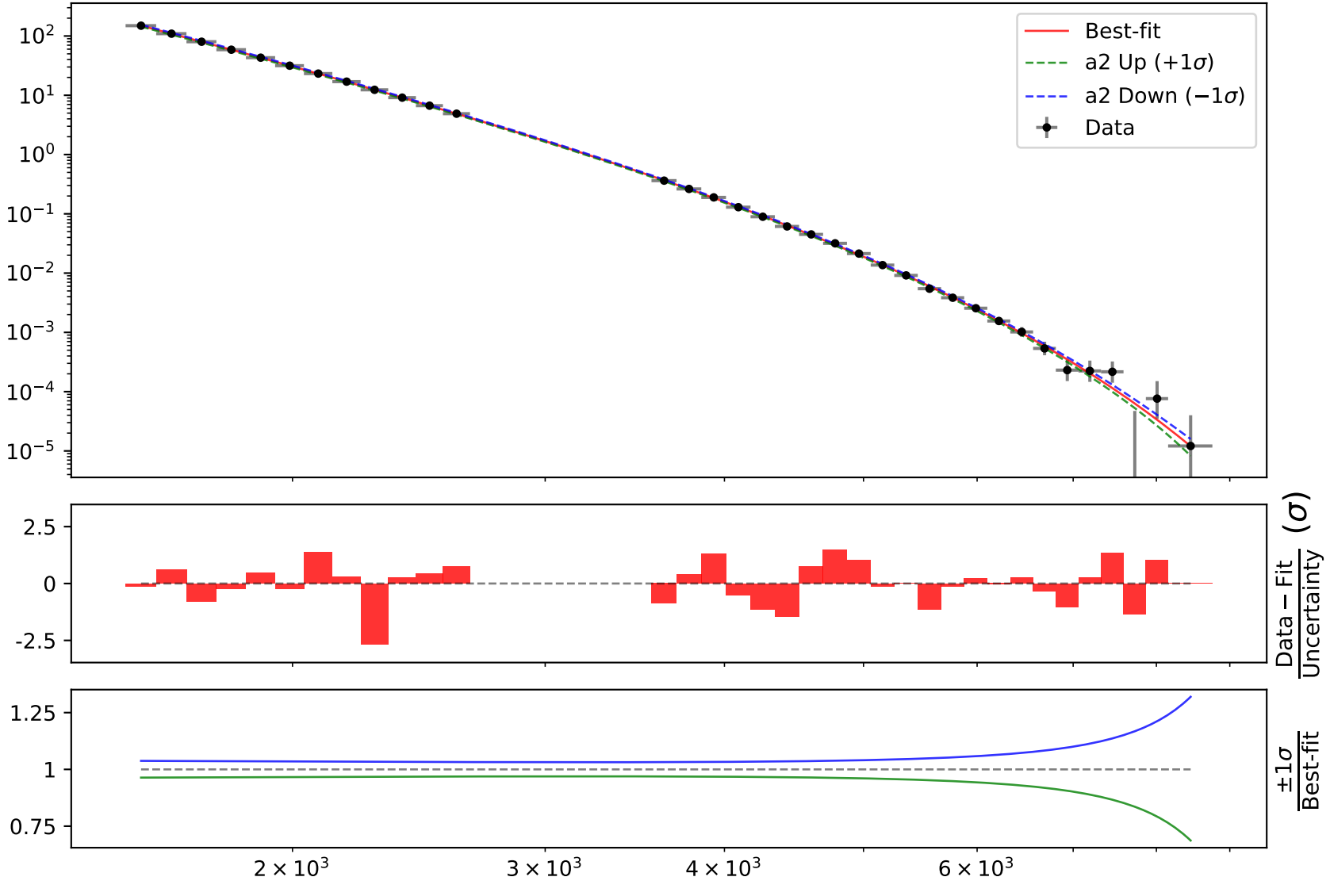
Candidate function #22

1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $\mathbf{a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}}$,
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,
$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,
$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #22

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

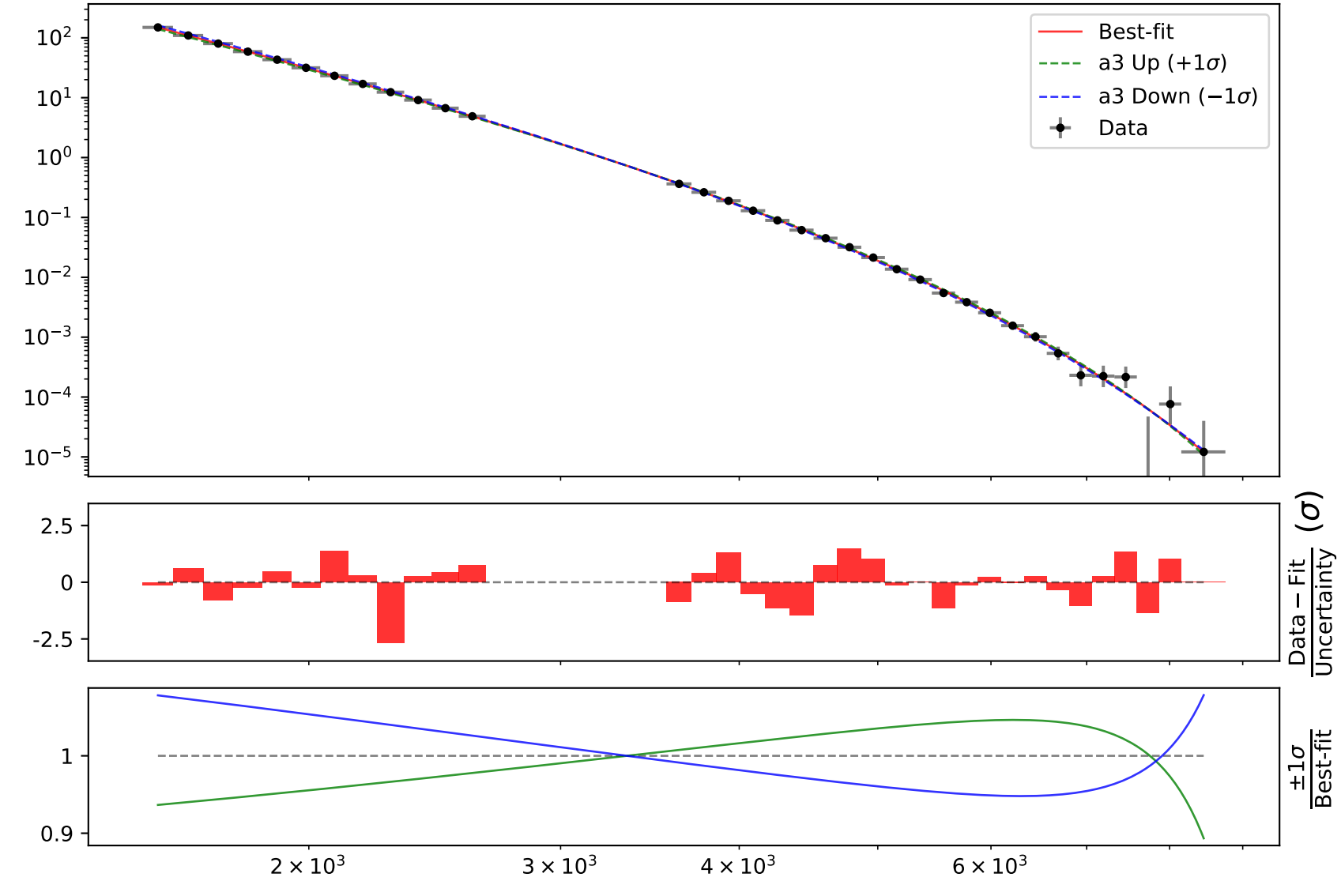
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #22

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

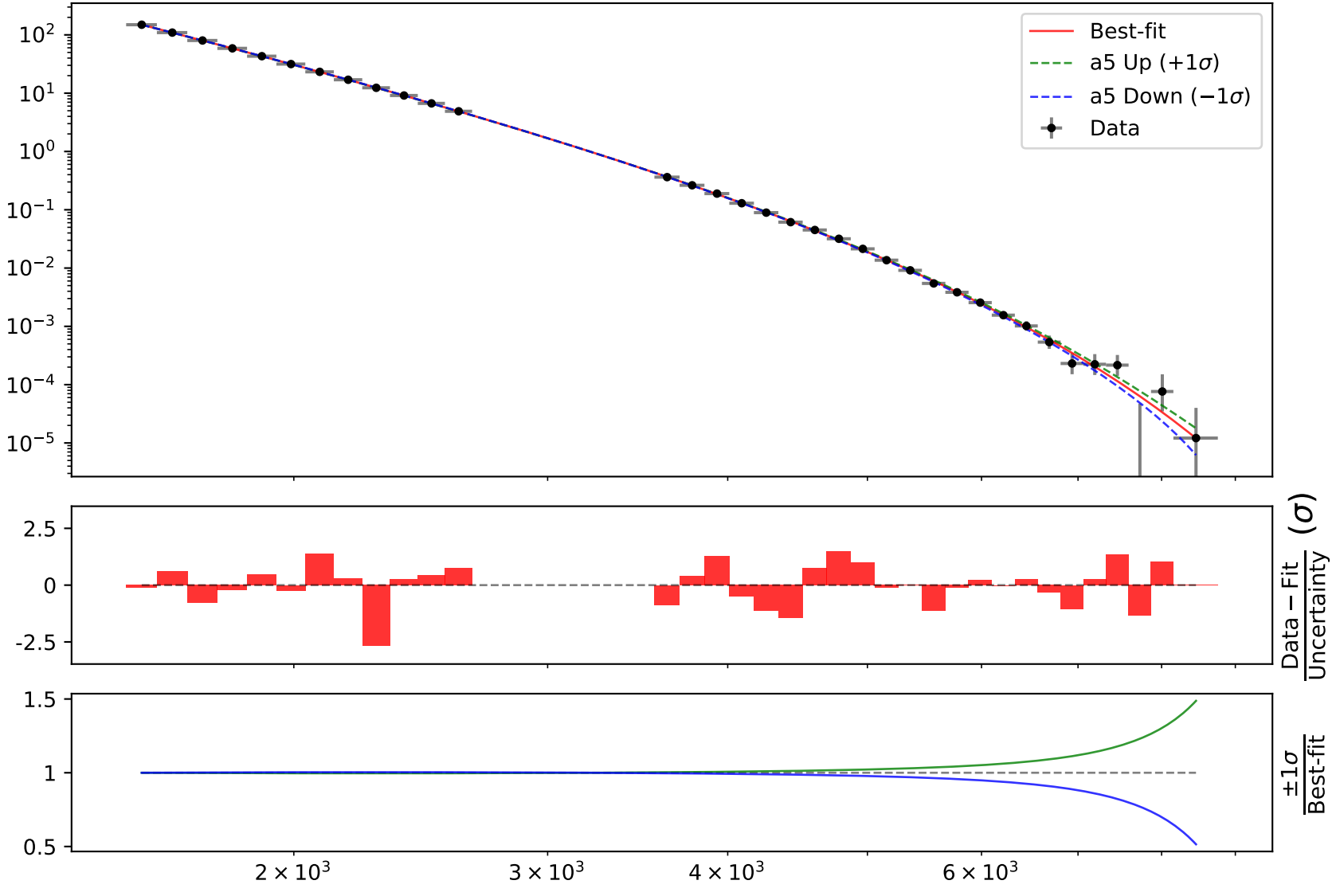
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #22

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0

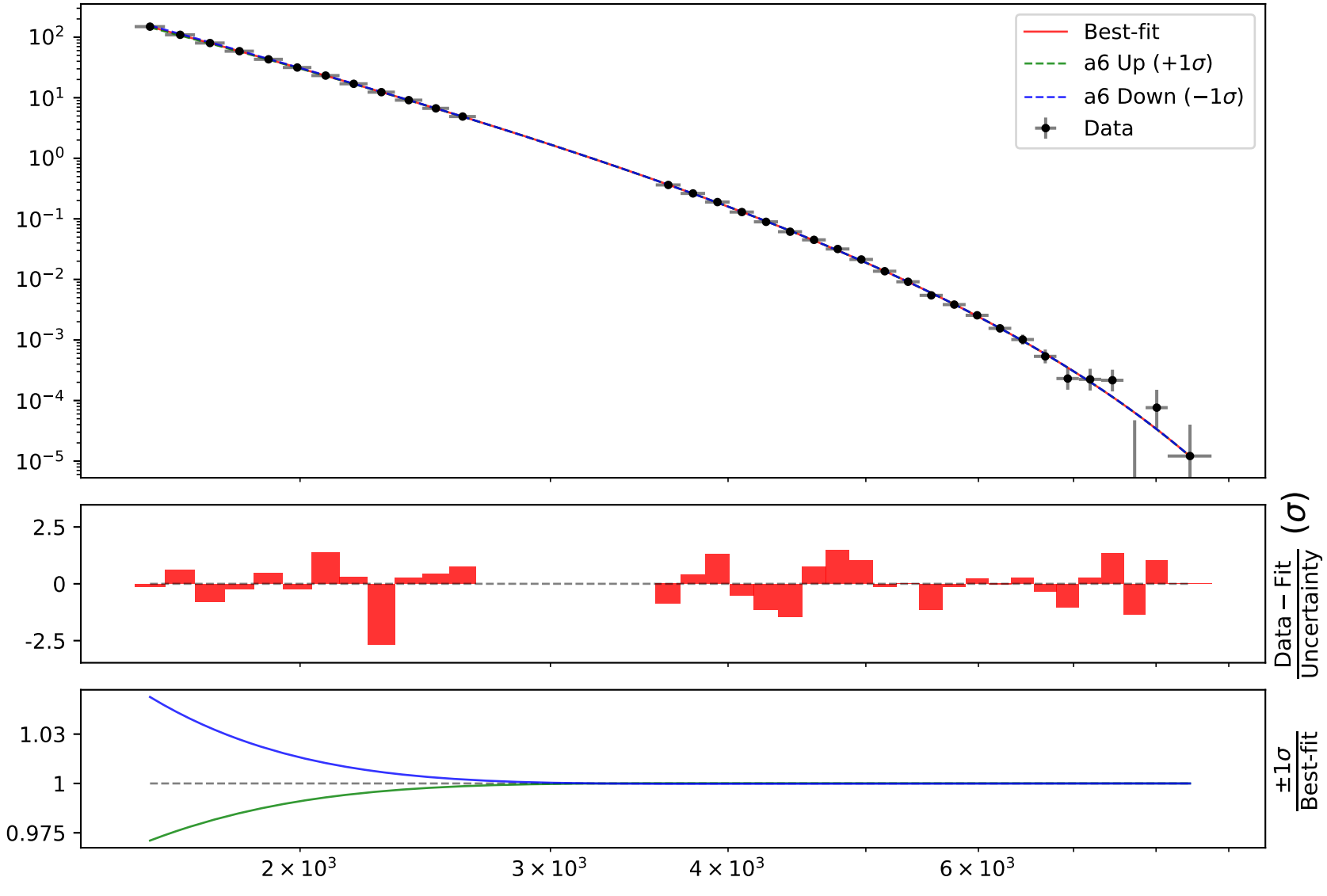


1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,
$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $\mathbf{a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}}$,
$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #22

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

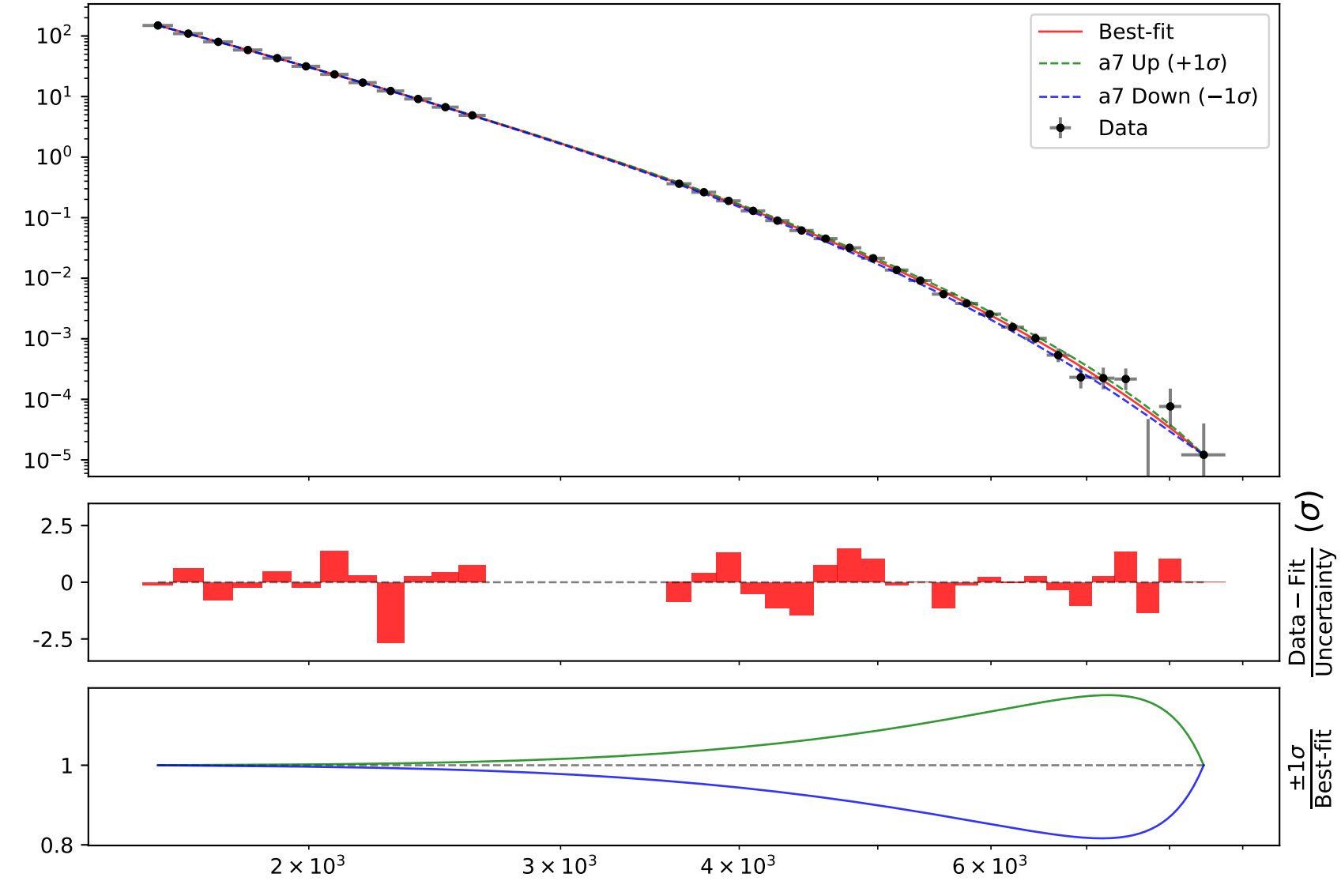
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #22

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

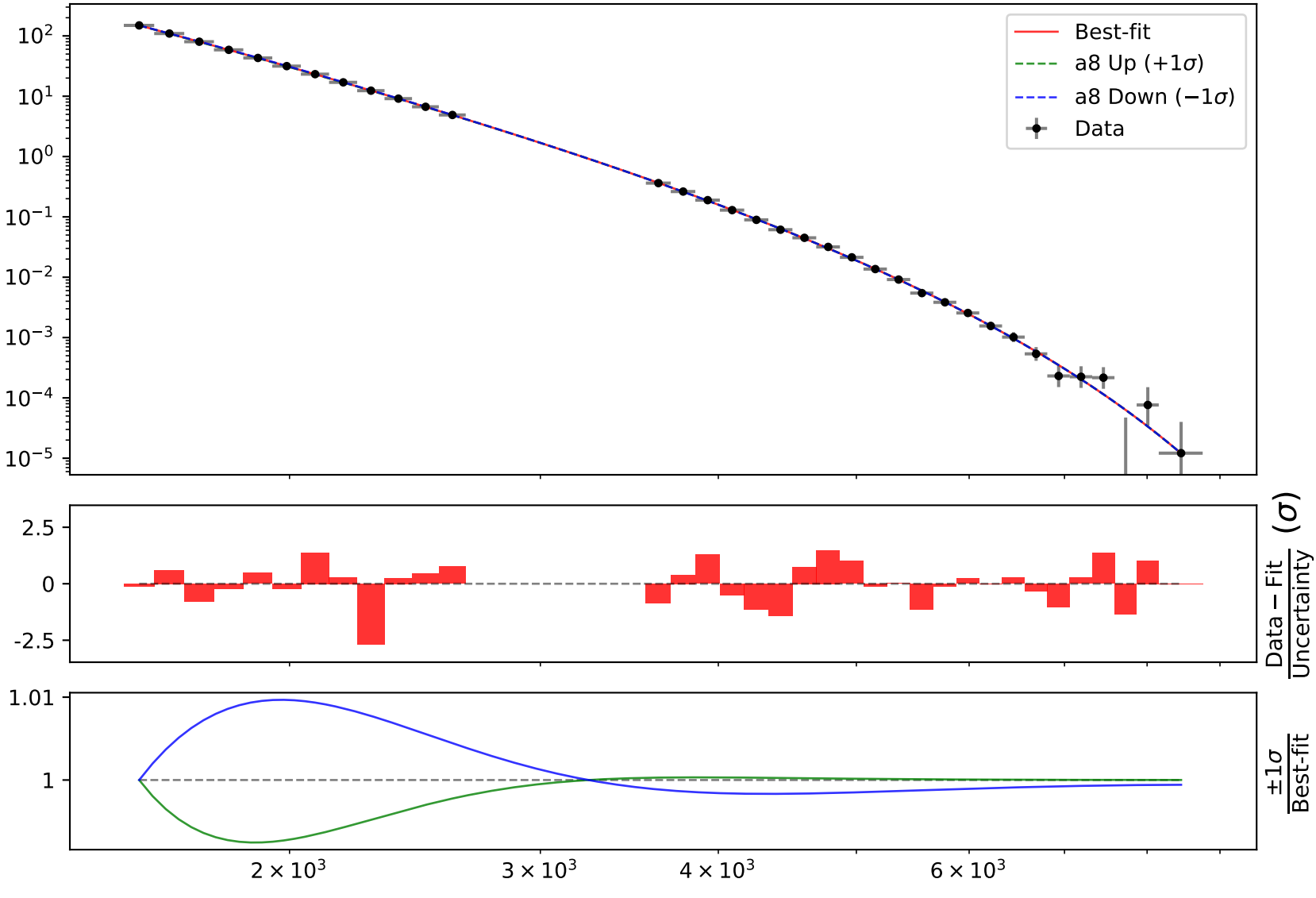
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $\mathbf{a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}}$

Candidate #22

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



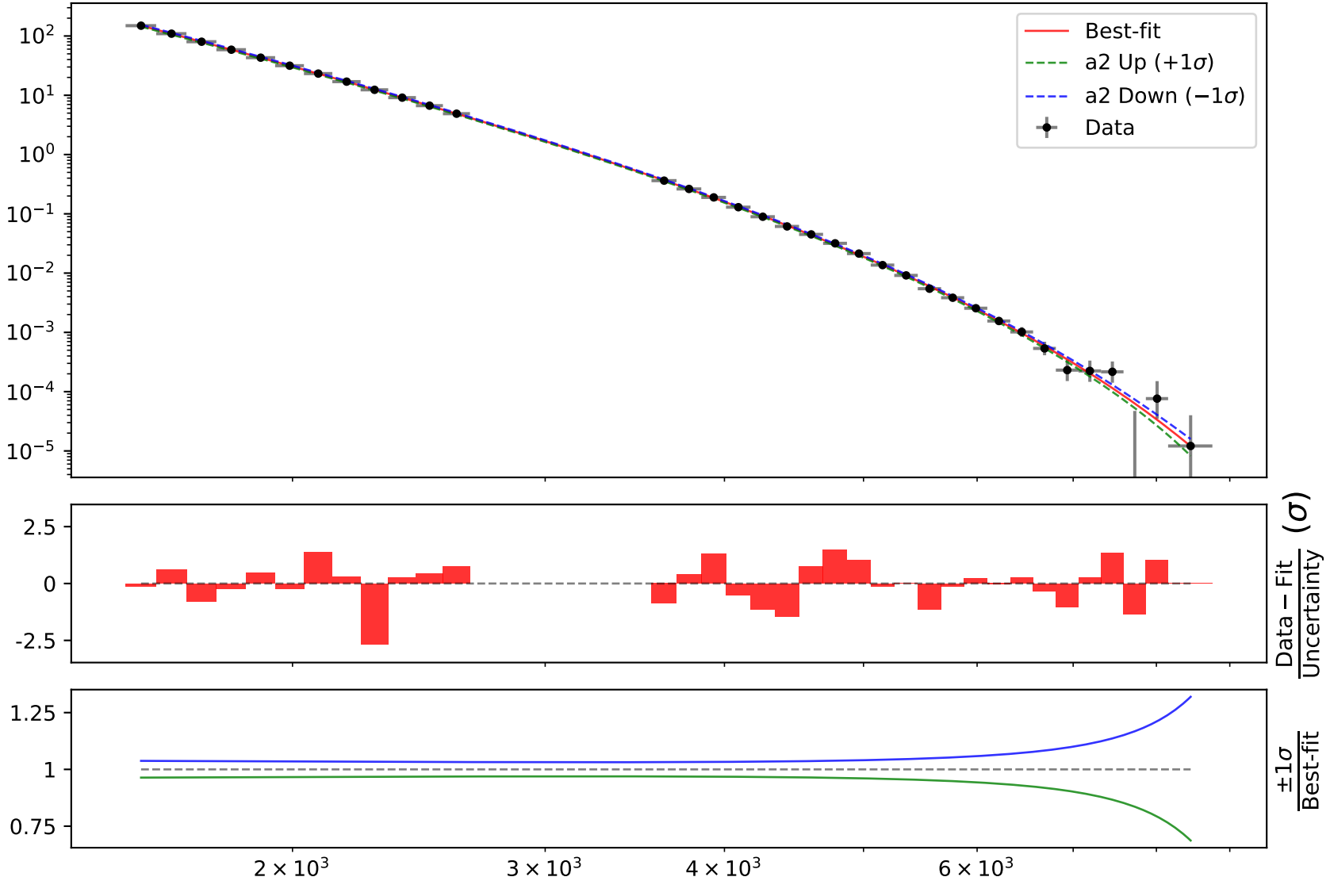
Candidate function #21

1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $\mathbf{a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}}$,
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,
$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,
$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #21

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

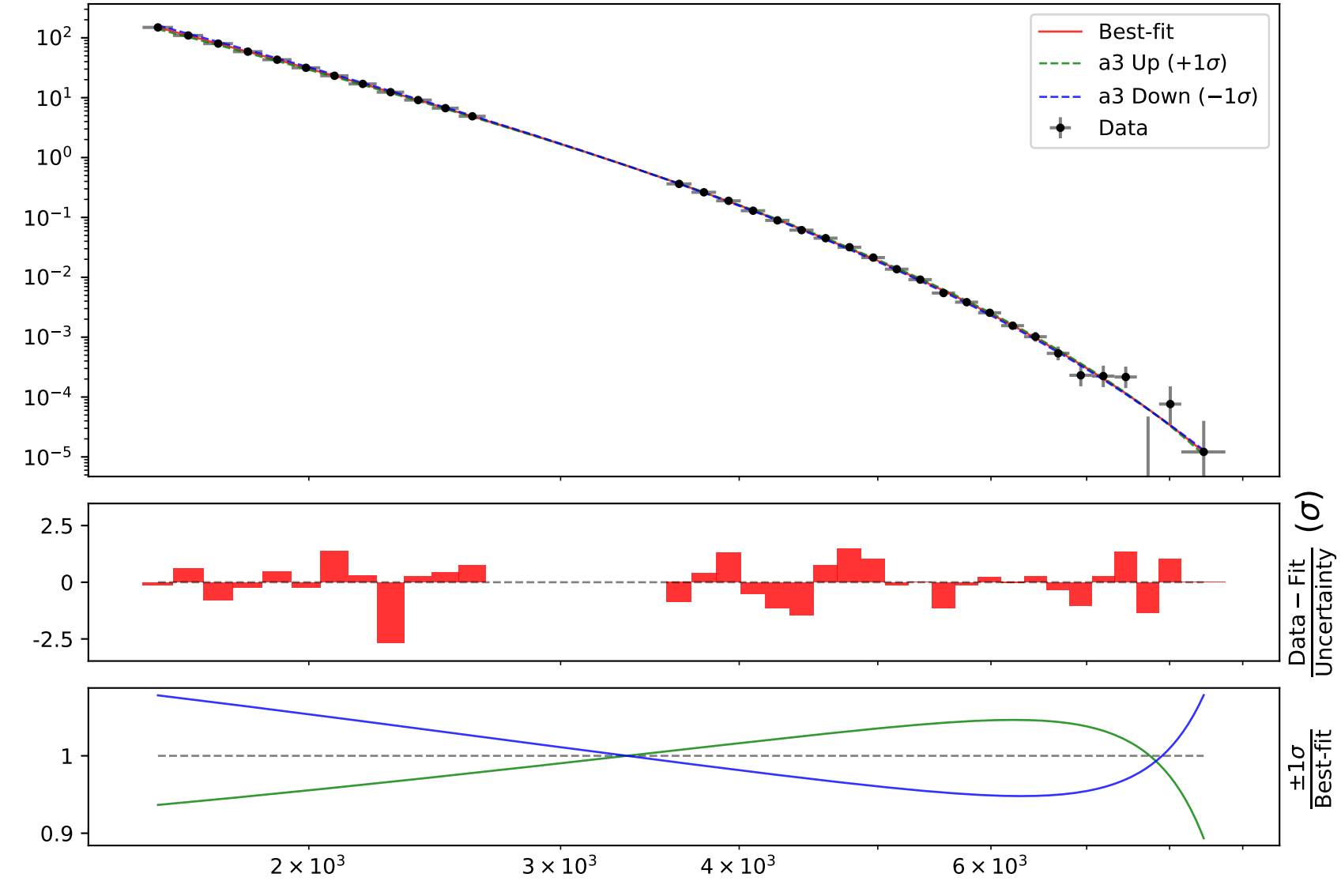
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #21

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

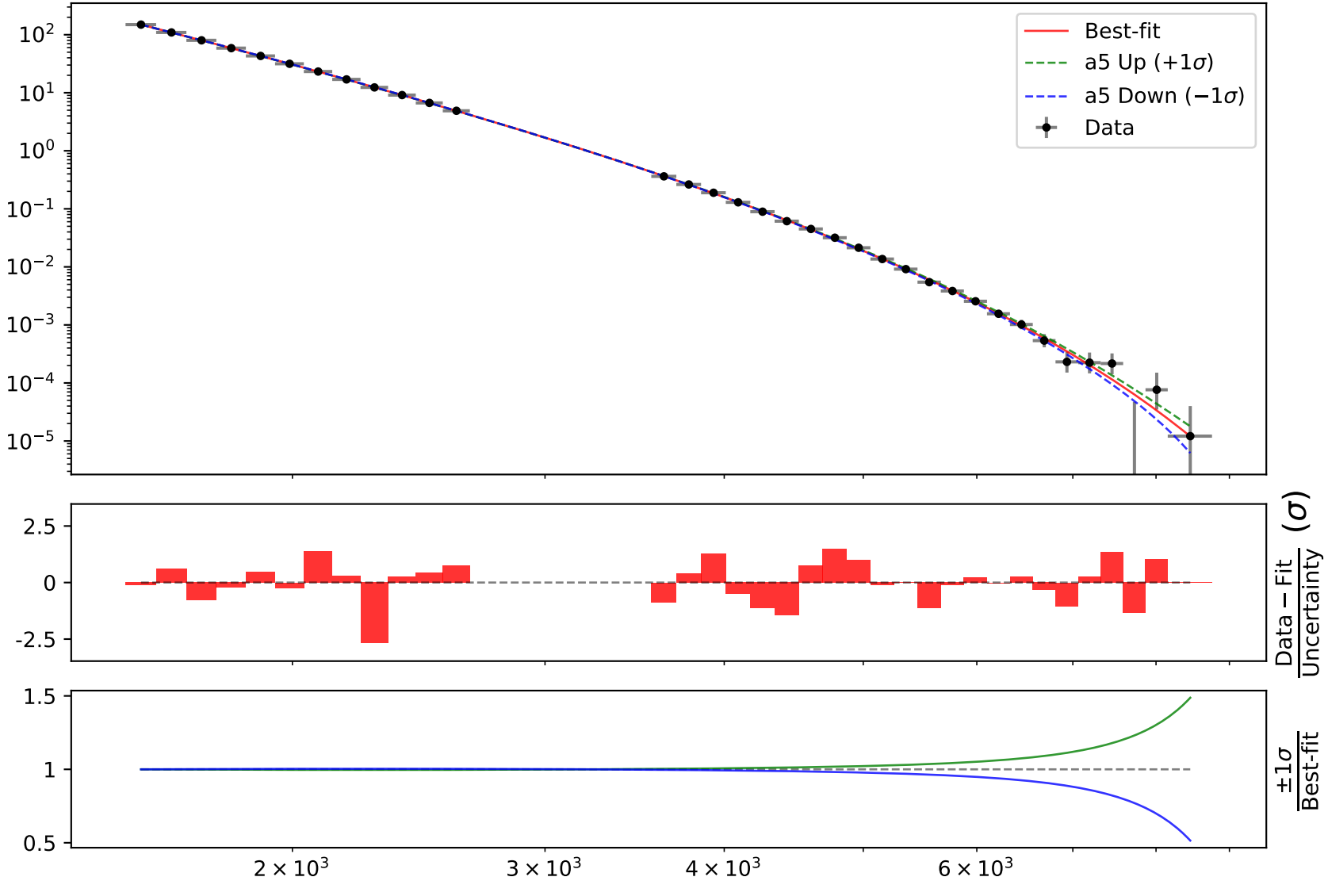
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #21

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

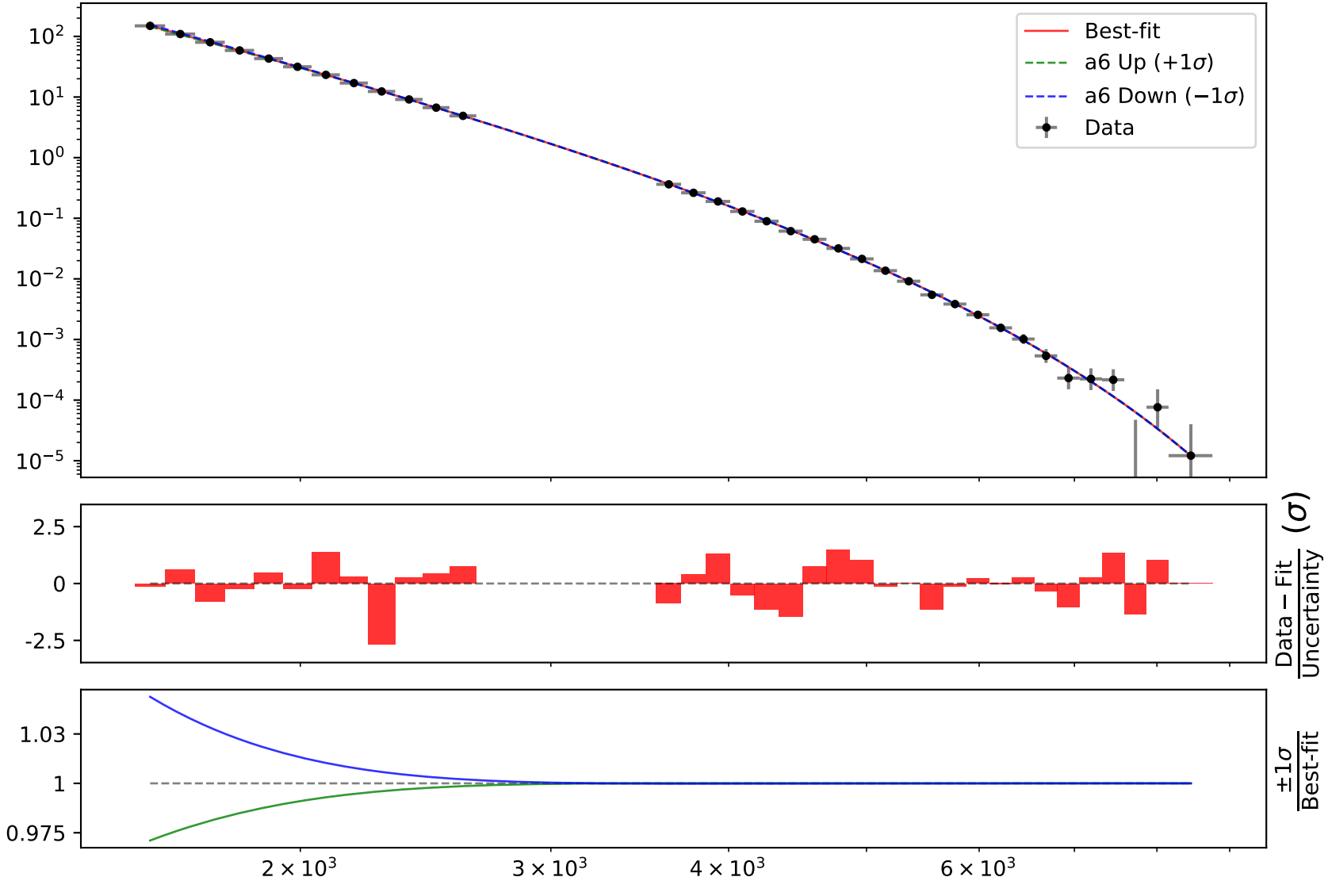
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $\mathbf{a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #21

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

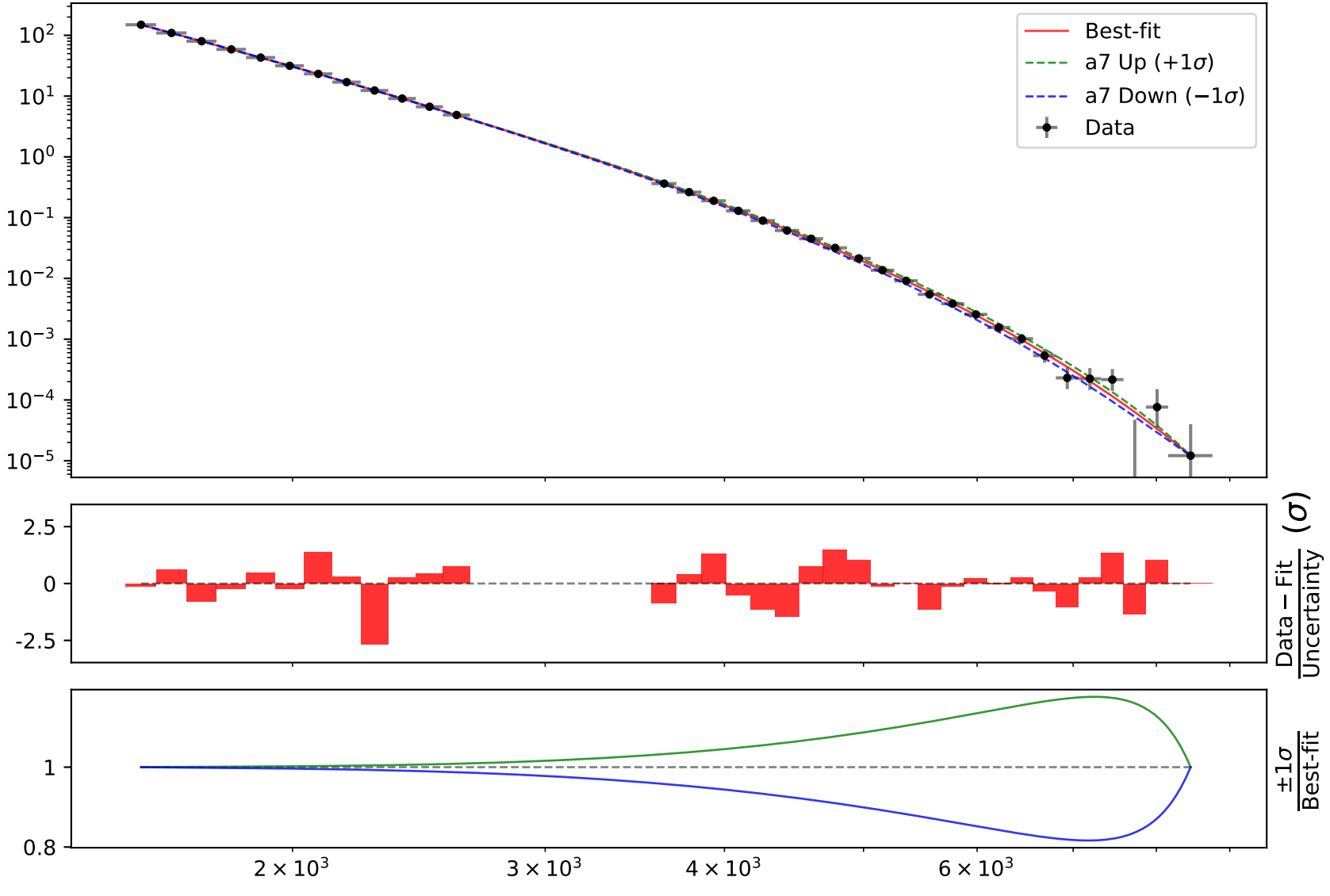
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}$

Candidate #21

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



1.0*(a1*a3**((x0 - 1568.5) * 0.000145275)*((x0 - 1568.5) * 0.000145275)**a7 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -2.64$, $a2 = -0.243138^{+0.00179(0.736\%)}_{-0.00179(0.736\%)}$,

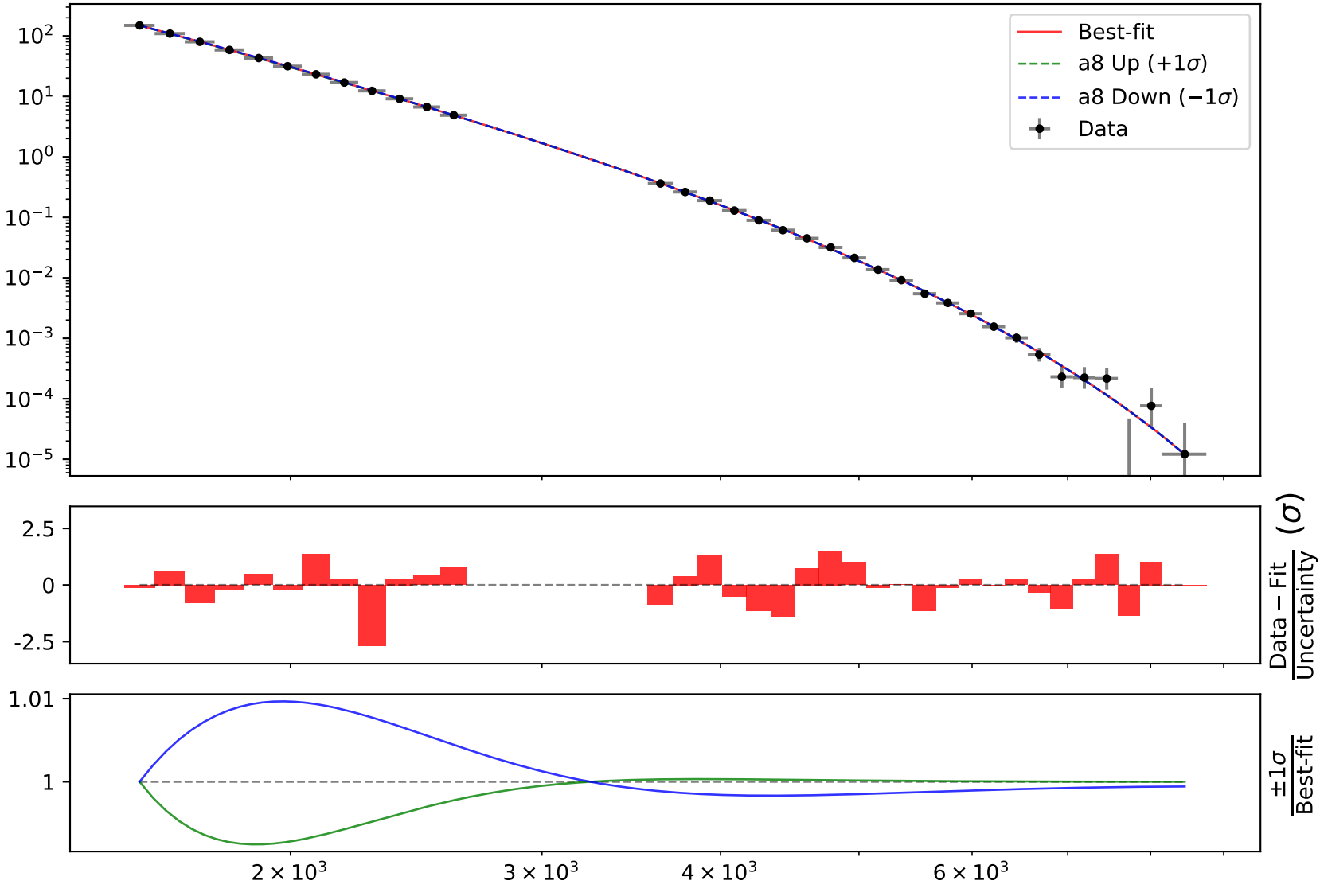
$a3 = 6.64543e-05^{+9.1e-06(13.7\%)}_{-9.1e-06(13.7\%)}$, $a4 = 0.518$,

$a5 = 0.732148^{+0.011(1.5\%)}_{-0.011(1.5\%)}$, $a6 = 1.19315^{+0.186(15.6\%)}_{-0.186(15.6\%)}$,

$a7 = 0.839884^{+0.209(24.9\%)}_{-0.209(24.9\%)}$, $\mathbf{a8 = 6.47593^{+2.28(35.2\%)}_{-2.28(35.2\%)}}$

Candidate #21

χ^2/NDF = 28.71/29, RMSE = 0.02369, R2 = 1.0



Candidate function #20

1.0*(a3/(a1*((x0 - 1568.5) * 0.000145275) + a4) + (a3*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.433$, **$a2 = -0.238539^{+0.000208(0.0872\%)}_{-0.000208(0.0872\%)}$**,

$a3 = 8.2455e-07^{+1.61e-07(19.5\%)}_{-1.61e-07(19.5\%)}$, $a4 = 0.0448419^{+2.79e-06(0.00622\%)}_{-2.79e-06(0.00622\%)}$,

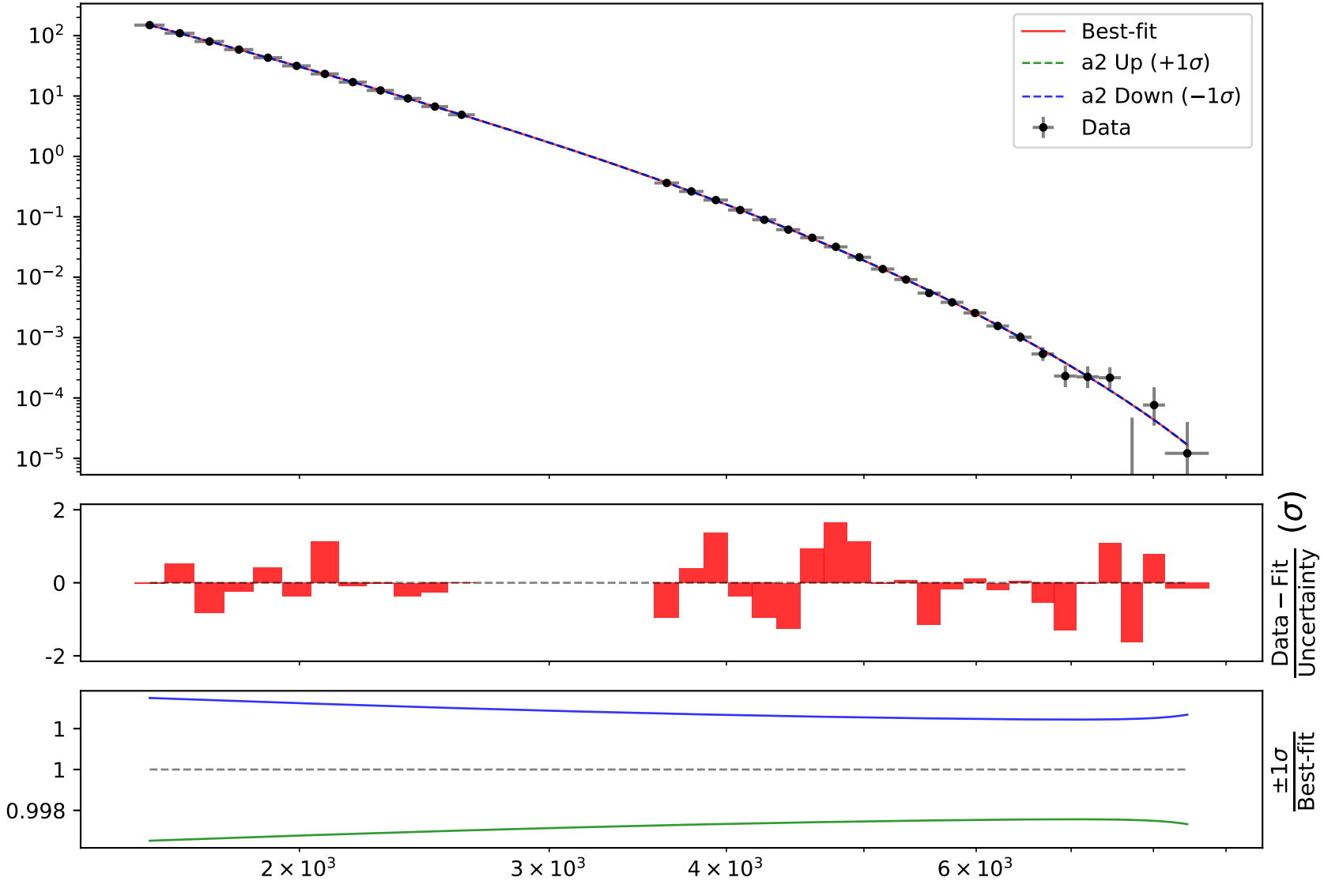
$a5 = 0.82565^{+0.018(2.18\%)}_{-0.018(2.18\%)}$, $a6 = 1.49249^{+0.0967(6.48\%)}_{-0.0967(6.48\%)}$,

$a7 = 1.1$, $a8 = 2.31$,

$a9 = 2.33529^{+0.495(21.2\%)}_{-0.495(21.2\%)}$

Candidate #20

χ^2/NDF = 21.38/29, RMSE = 0.01817, R2 = 1.0



1.0*(a3/(a1*((x0 - 1568.5) * 0.000145275) + a4) + (a3*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.433$, $a2 = -0.238539^{+0.000208(0.0872\%)}_{-0.000208(0.0872\%)}$,

$a3 = 8.2455e-07^{+1.61e-07(19.5\%)}_{-1.61e-07(19.5\%)}$, $a4 = 0.0448419^{+2.79e-06(0.00622\%)}_{-2.79e-06(0.00622\%)}$,

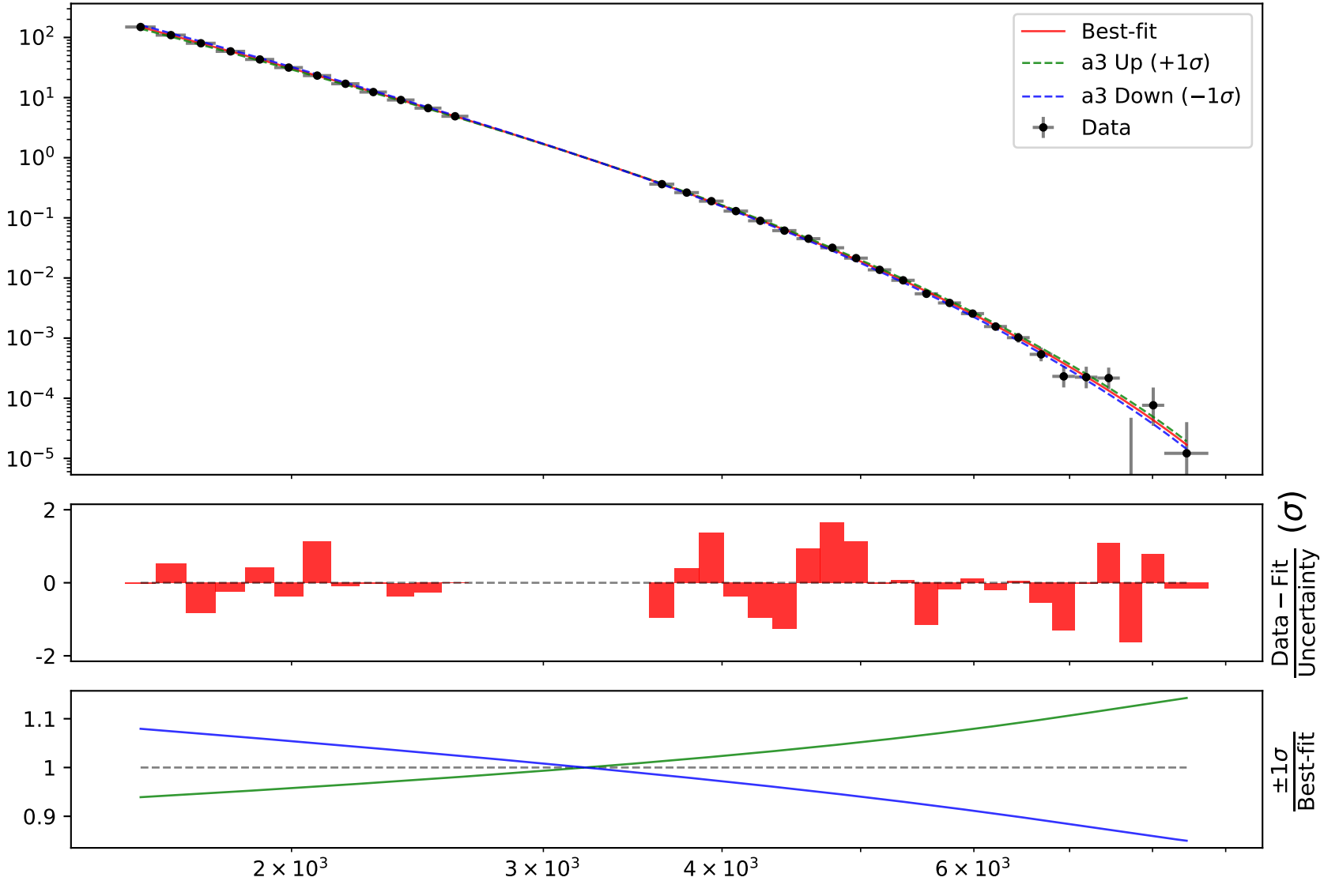
$a5 = 0.82565^{+0.018(2.18\%)}_{-0.018(2.18\%)}$, $a6 = 1.49249^{+0.0967(6.48\%)}_{-0.0967(6.48\%)}$,

$a7 = 1.1$, $a8 = 2.31$,

$a9 = 2.33529^{+0.495(21.2\%)}_{-0.495(21.2\%)}$

Candidate #20

χ^2/NDF = 21.38/29, RMSE = 0.01817, R2 = 1.0



1.0*(a3/(a1*((x0 - 1568.5) * 0.000145275) + a4) + (a3*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.433$, $a2 = -0.238539^{+0.000208(0.0872\%)}_{-0.000208(0.0872\%)}$,

$a3 = 8.2455e-07^{+1.61e-07(19.5\%)}_{-1.61e-07(19.5\%)}$, **$a4 = 0.0448419^{+2.79e-06(0.00622\%)}_{-2.79e-06(0.00622\%)}$**,

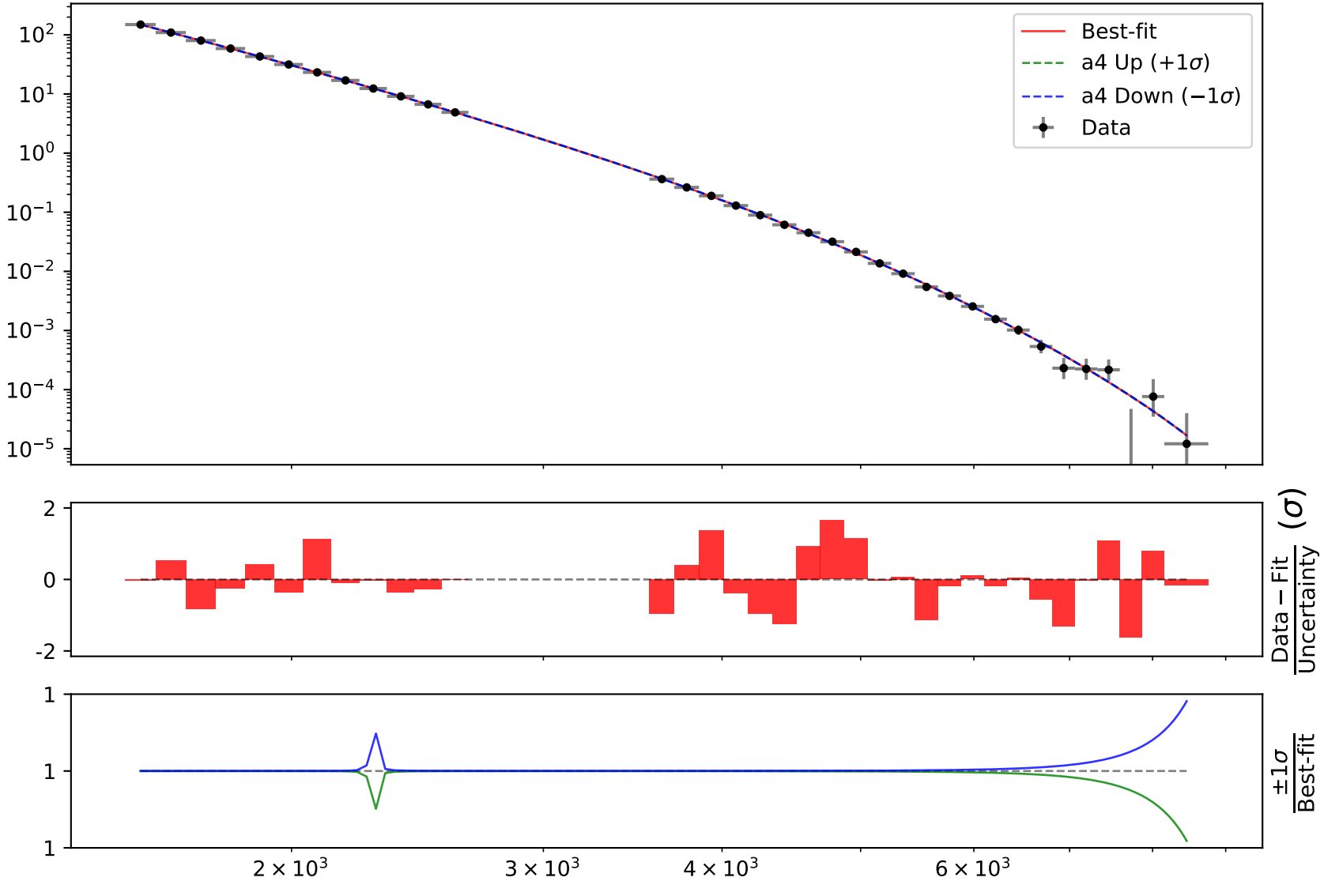
$a5 = 0.82565^{+0.018(2.18\%)}_{-0.018(2.18\%)}$, $a6 = 1.49249^{+0.0967(6.48\%)}_{-0.0967(6.48\%)}$,

$a7 = 1.1$, $a8 = 2.31$,

$a9 = 2.33529^{+0.495(21.2\%)}_{-0.495(21.2\%)}$

Candidate #20

χ^2/NDF = 21.38/29, RMSE = 0.01817, R2 = 1.0



1.0*(a3/(a1*((x0 - 1568.5) * 0.000145275) + a4) + (a3*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.433$, $a2 = -0.238539^{+0.000208(0.0872\%)}_{-0.000208(0.0872\%)}$,

$a3 = 8.2455e-07^{+1.61e-07(19.5\%)}_{-1.61e-07(19.5\%)}$, $a4 = 0.0448419^{+2.79e-06(0.00622\%)}_{-2.79e-06(0.00622\%)}$,

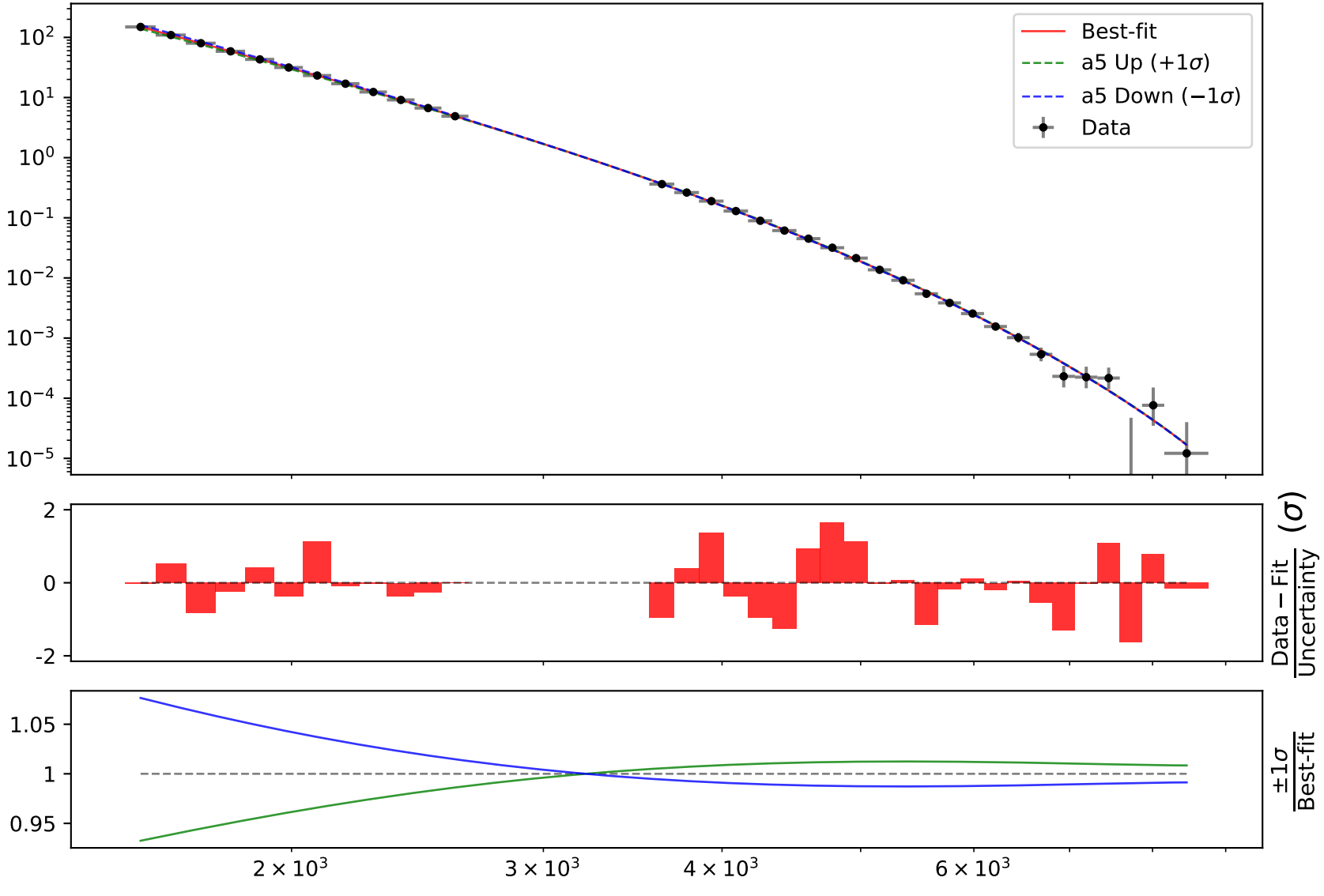
$a5 = 0.82565^{+0.018(2.18\%)}_{-0.018(2.18\%)}$, $a6 = 1.49249^{+0.0967(6.48\%)}_{-0.0967(6.48\%)}$,

$a7 = 1.1$, $a8 = 2.31$,

$a9 = 2.33529^{+0.495(21.2\%)}_{-0.495(21.2\%)}$

Candidate #20

χ^2/NDF = 21.38/29, RMSE = 0.01817, R2 = 1.0



1.0*(a3/(a1*((x0 - 1568.5) * 0.000145275) + a4) + (a3*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.433$, $a2 = -0.238539^{+0.000208(0.0872\%)}_{-0.000208(0.0872\%)}$,

$a3 = 8.2455e-07^{+1.61e-07(19.5\%)}_{-1.61e-07(19.5\%)}$, $a4 = 0.0448419^{+2.79e-06(0.00622\%)}_{-2.79e-06(0.00622\%)}$,

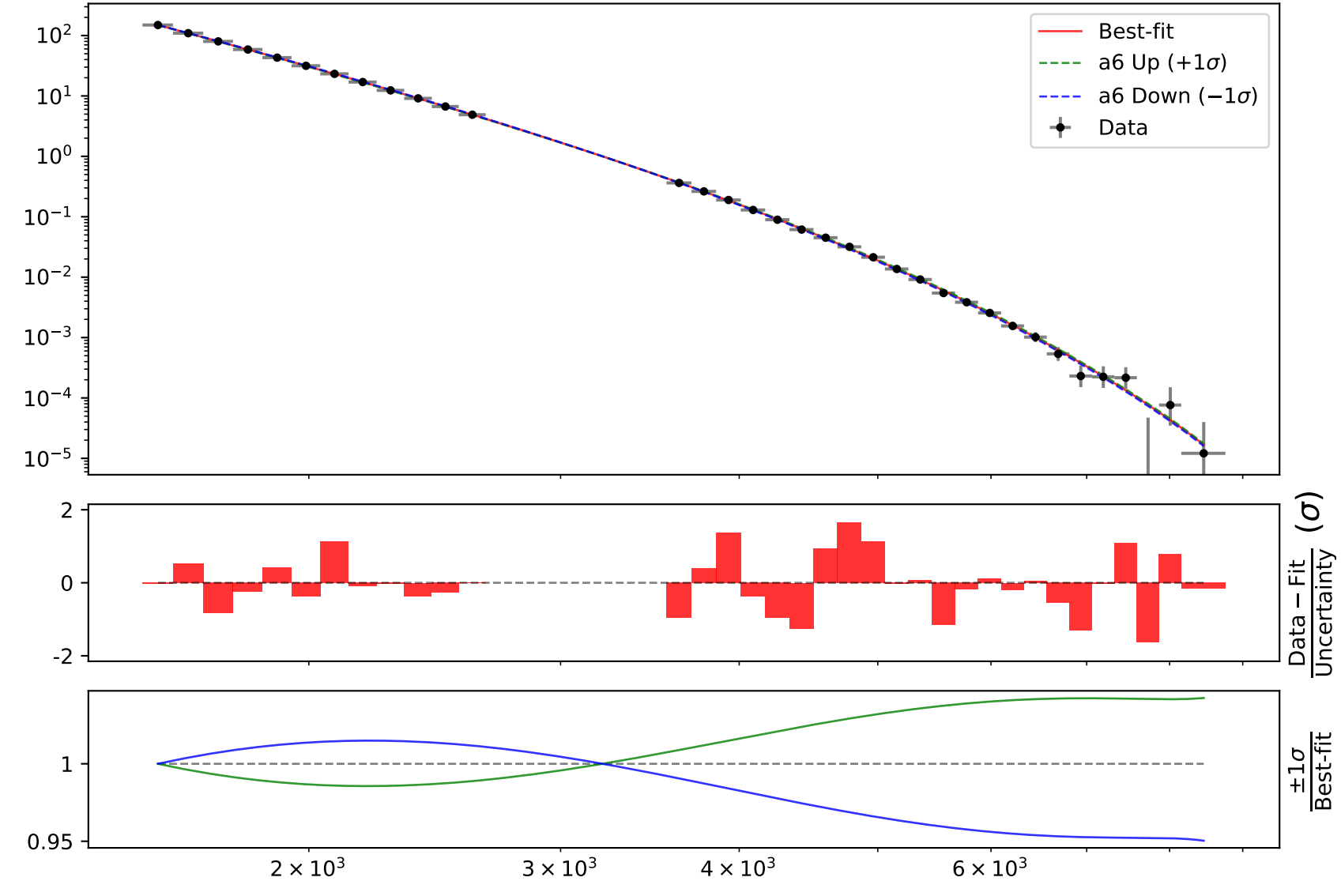
$a5 = 0.82565^{+0.018(2.18\%)}_{-0.018(2.18\%)}$, $\mathbf{a6 = 1.49249^{+0.0967(6.48\%)}_{-0.0967(6.48\%)}}$,

$a7 = 1.1$, $a8 = 2.31$,

$a9 = 2.33529^{+0.495(21.2\%)}_{-0.495(21.2\%)}$

Candidate #20

χ^2/NDF = 21.38/29, RMSE = 0.01817, R2 = 1.0



1.0*(a3/(a1*((x0 - 1568.5) * 0.000145275) + a4) + (a3*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.433$, $a2 = -0.238539^{+0.000208(0.0872\%)}_{-0.000208(0.0872\%)}$,

$a3 = 8.2455e-07^{+1.61e-07(19.5\%)}_{-1.61e-07(19.5\%)}$, $a4 = 0.0448419^{+2.79e-06(0.00622\%)}_{-2.79e-06(0.00622\%)}$,

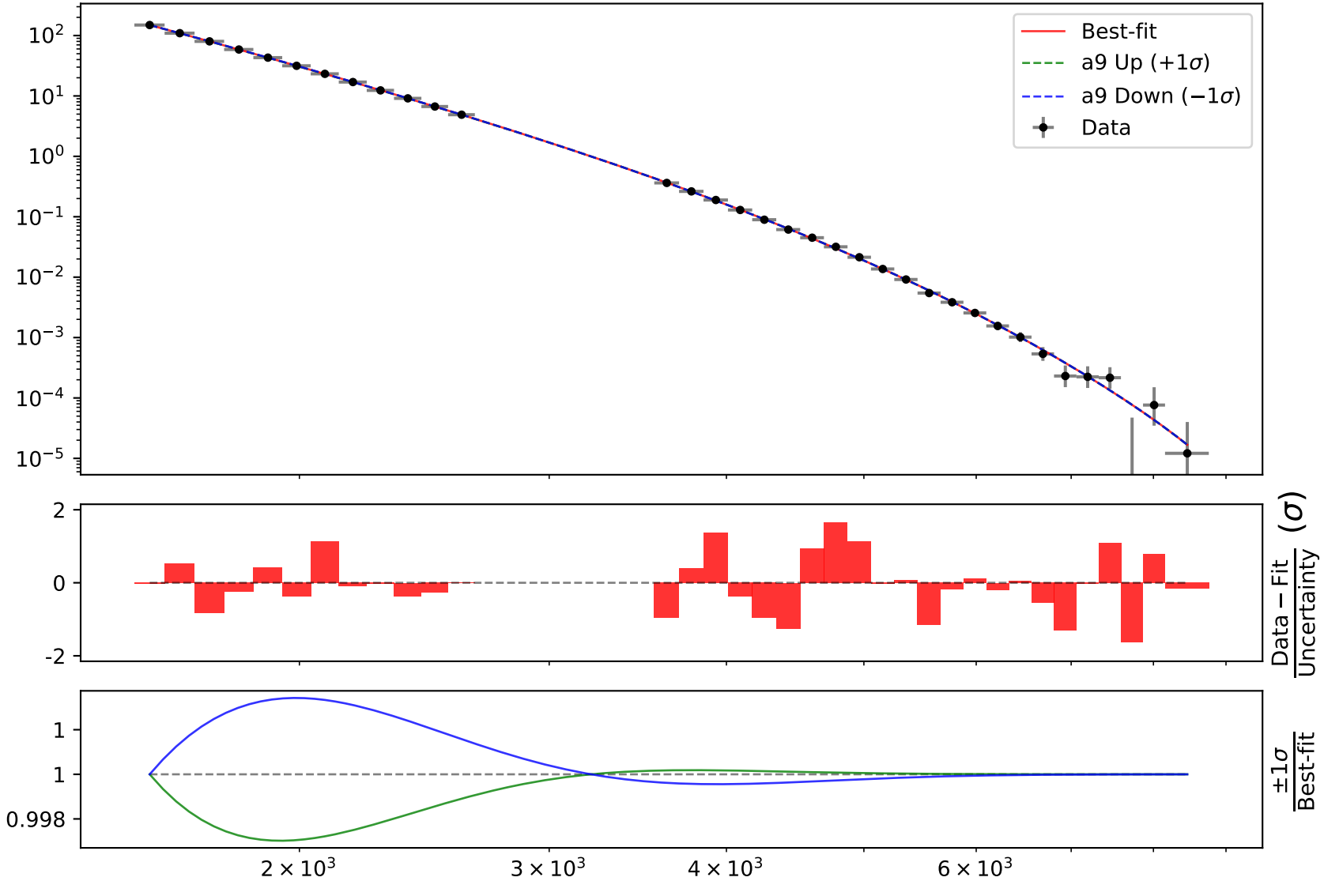
$a5 = 0.82565^{+0.018(2.18\%)}_{-0.018(2.18\%)}$, $a6 = 1.49249^{+0.0967(6.48\%)}_{-0.0967(6.48\%)}$,

$a7 = 1.1$, $a8 = 2.31$,

$a9 = 2.33529^{+0.495(21.2\%)}_{-0.495(21.2\%)}$

Candidate #20

χ^2/NDF = 21.38/29, RMSE = 0.01817, R2 = 1.0



Candidate function #19

1.0*(a4/(a1*((x0 - 1568.5) * 0.000145275) + a3) + (a4*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

a1 = $-1.37363^{+0.498(36.3\%)}_{-0.498(36.3\%)}$, $a2 = -0.235$,

$a3 = 0.653922^{+0.232(35.5\%)}_{-0.232(35.5\%)}$, $a4 = 4.98e-05$,

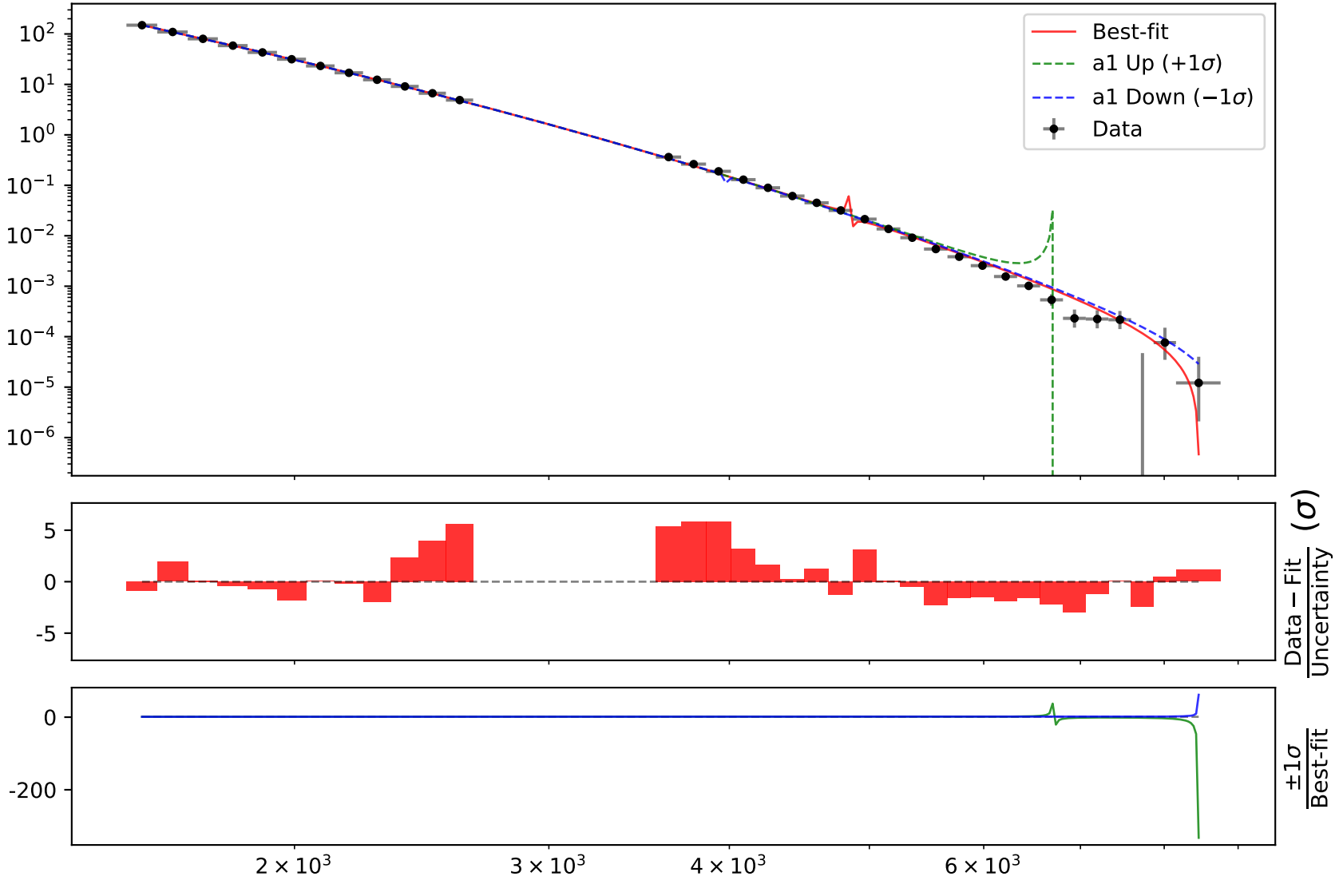
$a5 = 0.514716^{+0.00445(0.865\%)}_{-0.00445(0.865\%)}$, $a6 = 0.561587^{+0.031(5.52\%)}_{-0.031(5.52\%)}$,

$a7 = 1.19828^{+0.198(16.5\%)}_{-0.198(16.5\%)}$, $a8 = 2.31$,

$a9 = 5.22361^{+1.86(35.6\%)}_{-1.86(35.6\%)}$

Candidate #19

χ^2/NDF = 227.9/29, RMSE = 0.04943, R2 = 1.0



1.0*(a4/(a1*((x0 - 1568.5) * 0.000145275) + a3) + (a4*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -1.37363^{+0.498(36.3\%)}_{-0.498(36.3\%)}$, $a2 = -0.235$,

$a3 = 0.653922^{+0.232(35.5\%)}_{-0.232(35.5\%)}$, $a4 = 4.98e-05$,

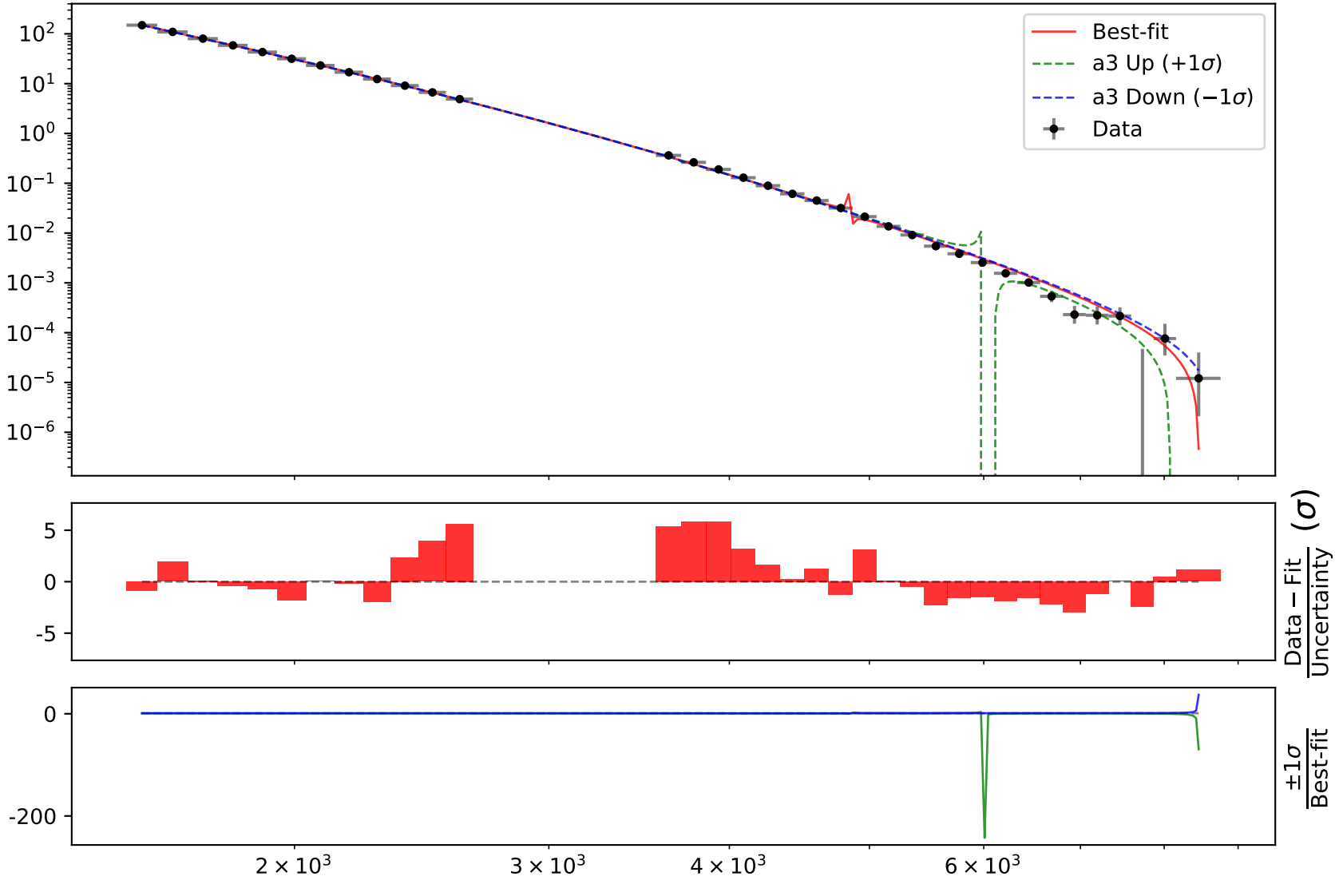
$a5 = 0.514716^{+0.00445(0.865\%)}_{-0.00445(0.865\%)}$, $a6 = 0.561587^{+0.031(5.52\%)}_{-0.031(5.52\%)}$,

$a7 = 1.19828^{+0.198(16.5\%)}_{-0.198(16.5\%)}$, $a8 = 2.31$,

$a9 = 5.22361^{+1.86(35.6\%)}_{-1.86(35.6\%)}$

Candidate #19

χ^2/NDF = 227.9/29, RMSE = 0.04943, R2 = 1.0



1.0*(a4/(a1*((x0 - 1568.5) * 0.000145275) + a3) + (a4*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -1.37363^{+0.498(36.3\%)}_{-0.498(36.3\%)}$, $a2 = -0.235$,

$a3 = 0.653922^{+0.232(35.5\%)}_{-0.232(35.5\%)}$, $a4 = 4.98e-05$,

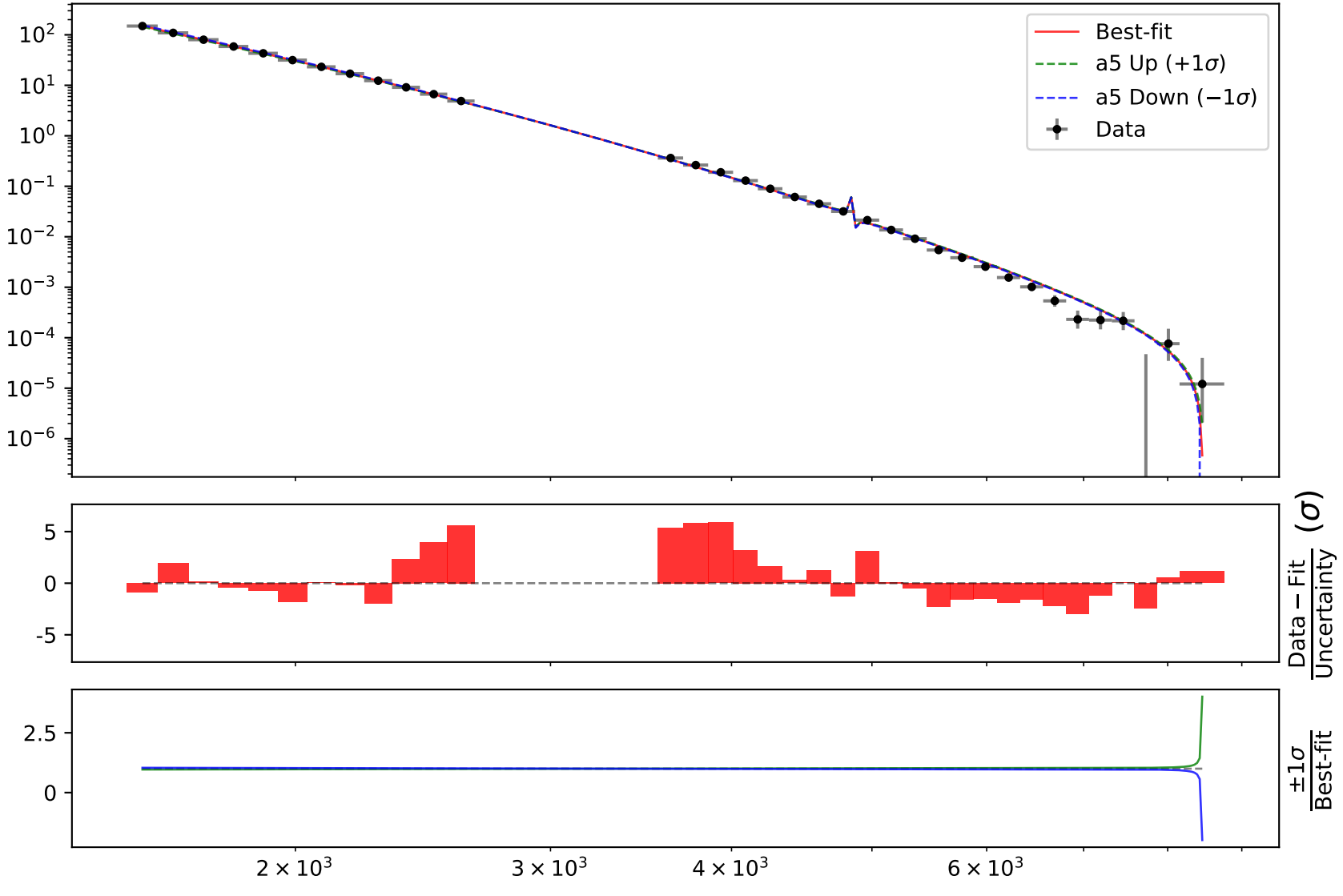
$a5 = 0.514716^{+0.00445(0.865\%)}_{-0.00445(0.865\%)}$, $a6 = 0.561587^{+0.031(5.52\%)}_{-0.031(5.52\%)}$,

$a7 = 1.19828^{+0.198(16.5\%)}_{-0.198(16.5\%)}$, $a8 = 2.31$,

$a9 = 5.22361^{+1.86(35.6\%)}_{-1.86(35.6\%)}$

Candidate #19

χ^2/NDF = 227.9/29, RMSE = 0.04943, R2 = 1.0



1.0*(a4/(a1*((x0 - 1568.5) * 0.000145275) + a3) + (a4*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -1.37363^{+0.498(36.3\%)}_{-0.498(36.3\%)}$, $a2 = -0.235$,

$a3 = 0.653922^{+0.232(35.5\%)}_{-0.232(35.5\%)}$, $a4 = 4.98e-05$,

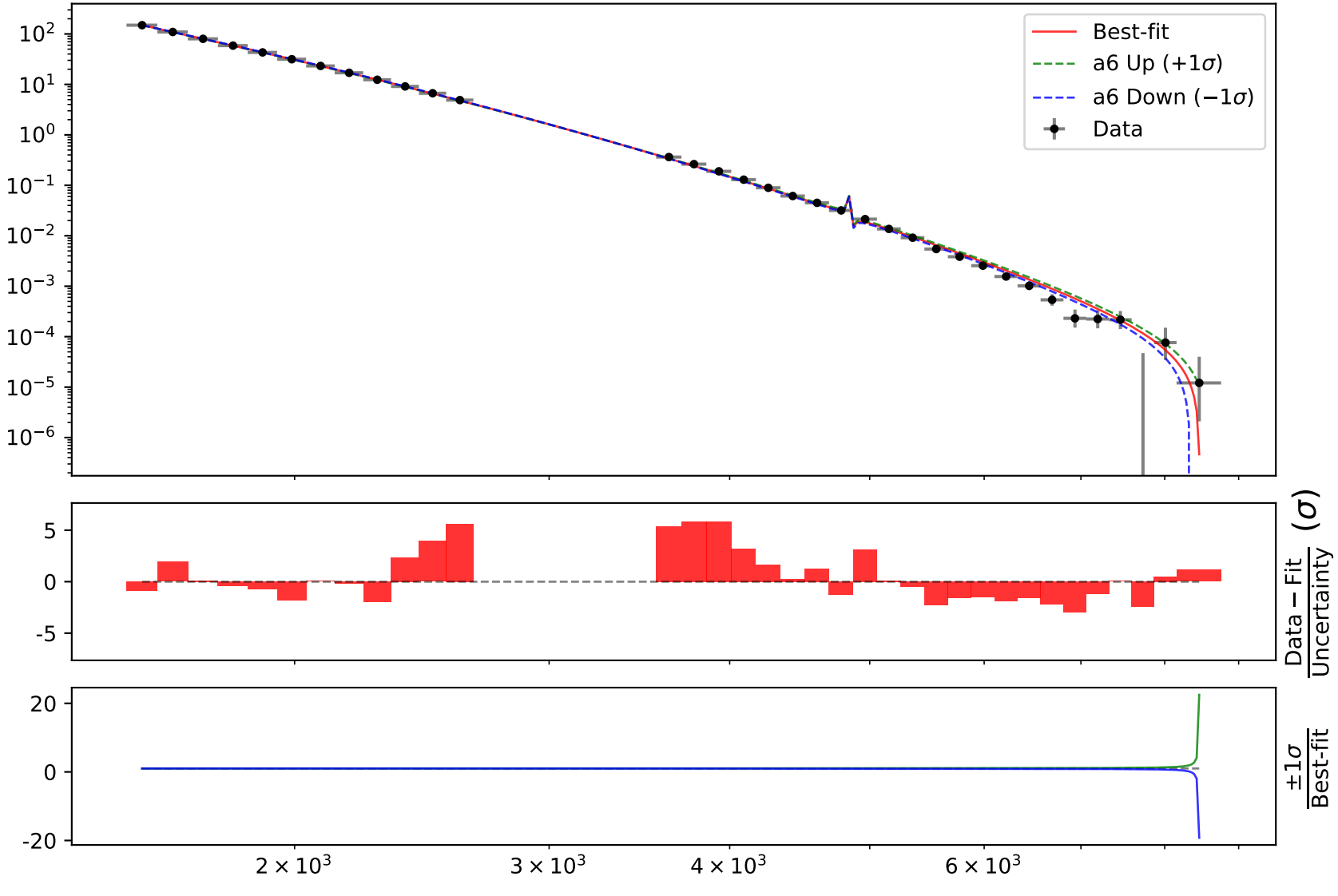
$a5 = 0.514716^{+0.00445(0.865\%)}_{-0.00445(0.865\%)}$, $\mathbf{a6 = 0.561587^{+0.031(5.52\%)}_{-0.031(5.52\%)}}$,

$a7 = 1.19828^{+0.198(16.5\%)}_{-0.198(16.5\%)}$, $a8 = 2.31$,

$a9 = 5.22361^{+1.86(35.6\%)}_{-1.86(35.6\%)}$

Candidate #19

χ^2/NDF = 227.9/29, RMSE = 0.04943, R2 = 1.0



1.0*(a4/(a1*((x0 - 1568.5) * 0.000145275) + a3) + (a4*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -1.37363^{+0.498(36.3\%)}_{-0.498(36.3\%)}$, $a2 = -0.235$,

$a3 = 0.653922^{+0.232(35.5\%)}_{-0.232(35.5\%)}$, $a4 = 4.98e-05$,

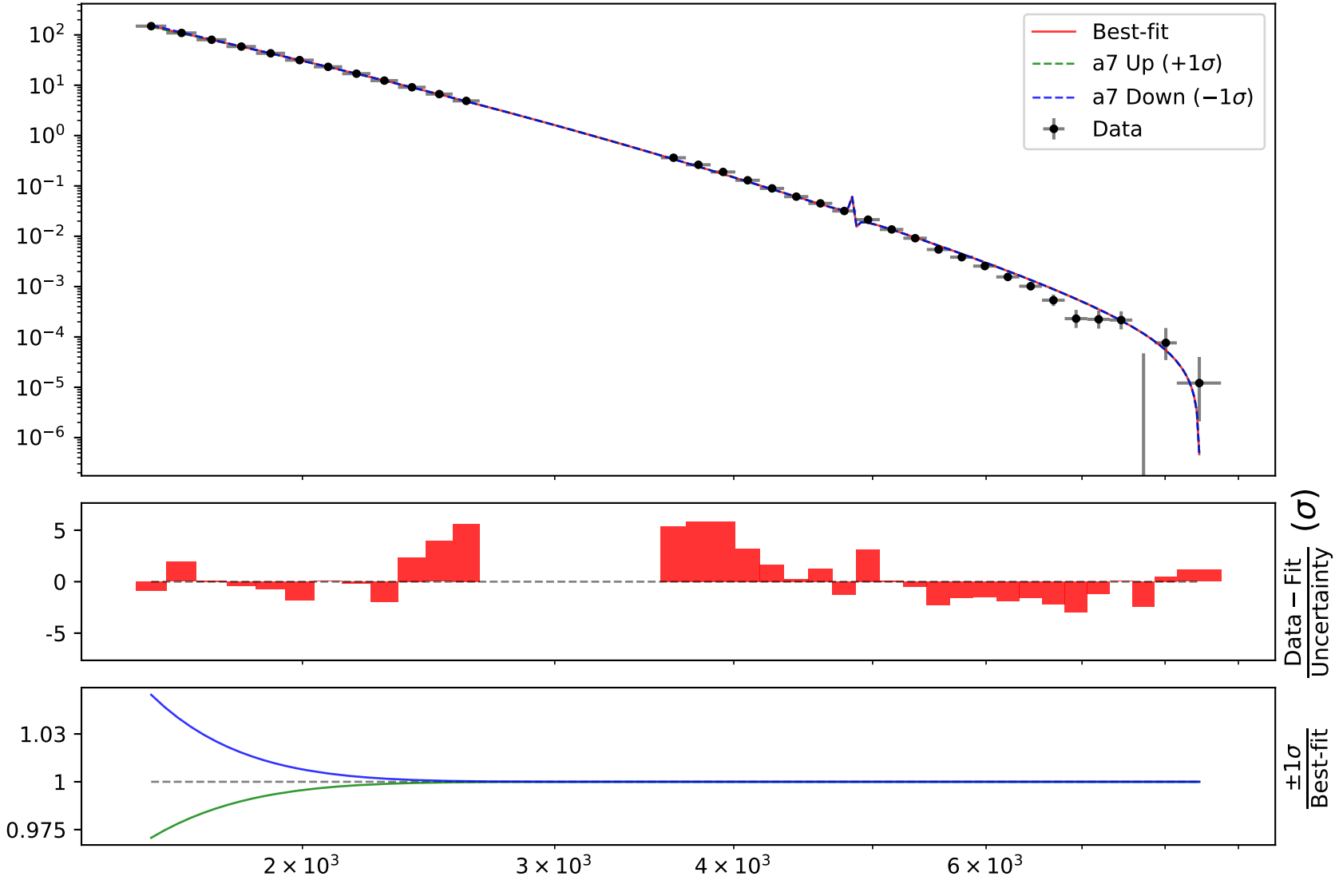
$a5 = 0.514716^{+0.00445(0.865\%)}_{-0.00445(0.865\%)}$, $a6 = 0.561587^{+0.031(5.52\%)}_{-0.031(5.52\%)}$,

$a7 = 1.19828^{+0.198(16.5\%)}_{-0.198(16.5\%)}$, $a8 = 2.31$,

$a9 = 5.22361^{+1.86(35.6\%)}_{-1.86(35.6\%)}$

Candidate #19

χ^2/NDF = 227.9/29, RMSE = 0.04943, R2 = 1.0



1.0*(a4/(a1*((x0 - 1568.5) * 0.000145275) + a3) + (a4*tanh(a7 + a9*((x0 - 1568.5) * 0.000145275)*(a8 + ((x0 - 1568.5) * 0.000145275))))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a5 + a6*((x0 - 1568.5) * 0.000145275))))

$a1 = -1.37363^{+0.498(36.3\%)}_{-0.498(36.3\%)}$, $a2 = -0.235$,

$a3 = 0.653922^{+0.232(35.5\%)}_{-0.232(35.5\%)}$, $a4 = 4.98e-05$,

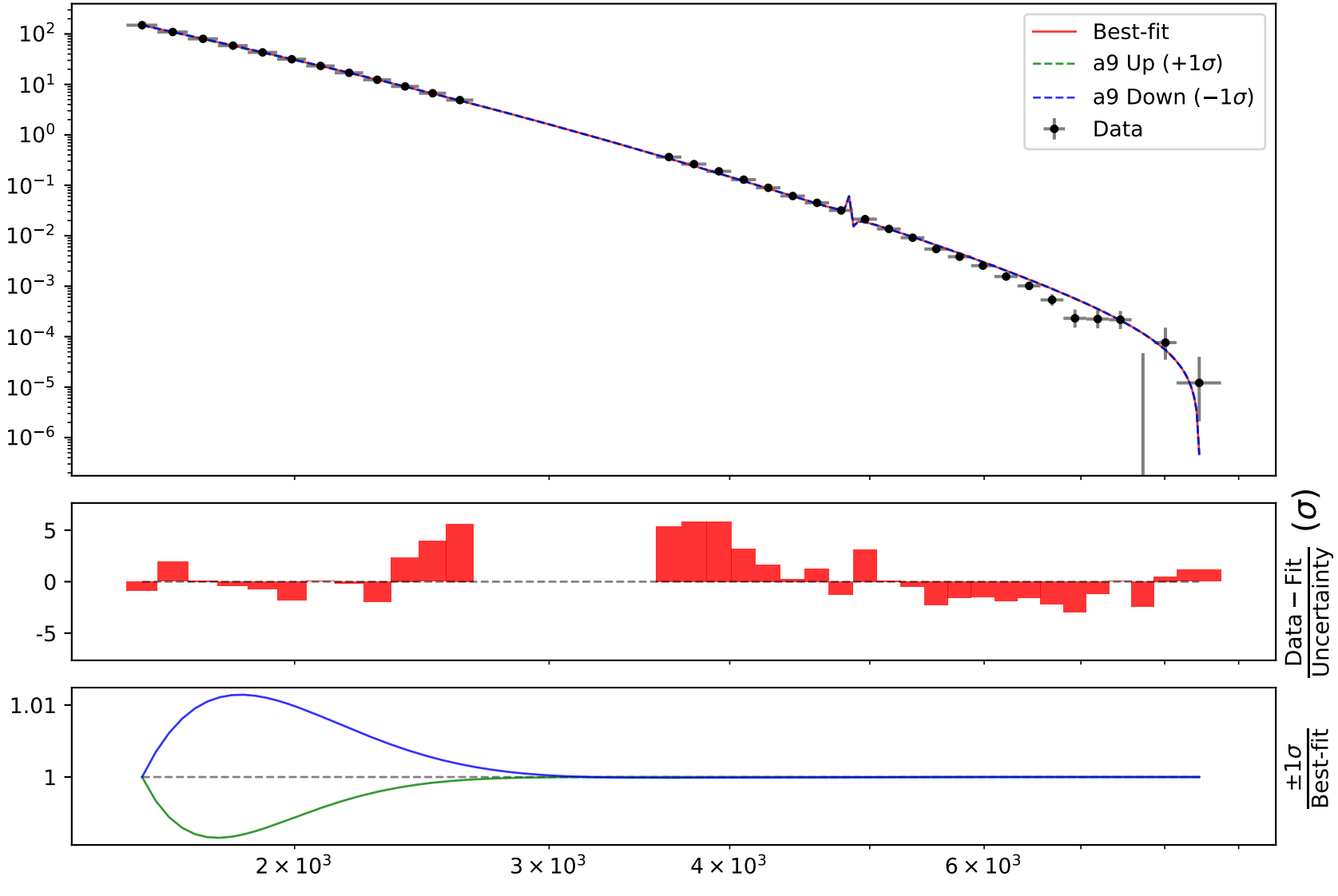
$a5 = 0.514716^{+0.00445(0.865\%)}_{-0.00445(0.865\%)}$, $a6 = 0.561587^{+0.031(5.52\%)}_{-0.031(5.52\%)}$,

$a7 = 1.19828^{+0.198(16.5\%)}_{-0.198(16.5\%)}$, $a8 = 2.31$,

$a9 = 5.22361^{+1.86(35.6\%)}_{-1.86(35.6\%)}$

Candidate #19

χ^2/NDF = 227.9/29, RMSE = 0.04943, R2 = 1.0



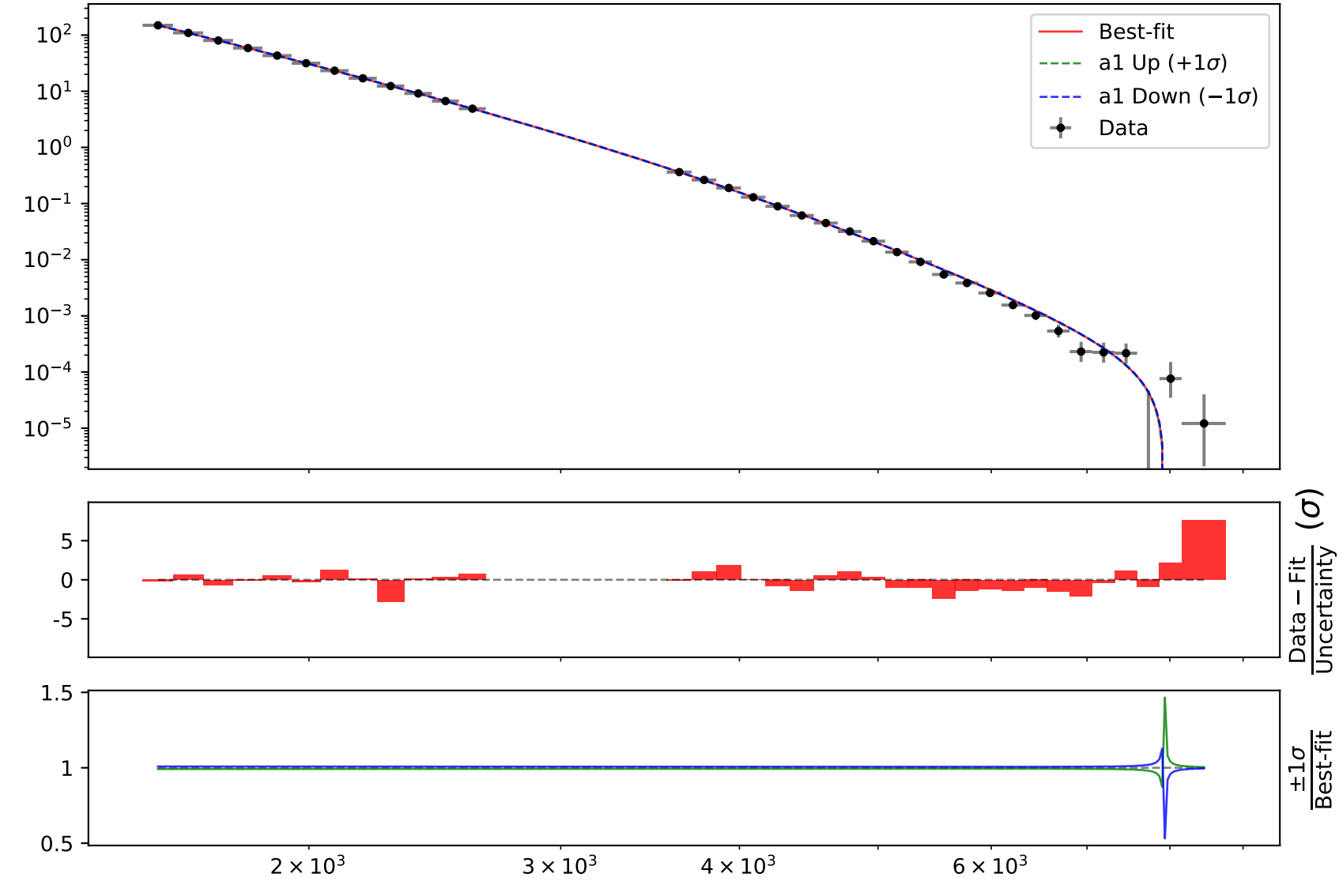
Candidate function #18

1.0*(a2 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)*(a7 + ((x0 - 1568.5) * 0.000145275))))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

a1 = $-0.238095^{+0.000407(0.171\%)}_{-0.000407(0.171\%)}$, $a2 = -0.000115$,
$a3 = 4.98e-05$, $a4 = 0.572135^{+0.0199(3.48\%)}_{-0.0199(3.48\%)}$,
$a5 = 0.431686^{+0.0477(11.0\%)}_{-0.0477(11.0\%)}$, $a6 = 0.402989^{+0.131(32.5\%)}_{-0.131(32.5\%)}$,
$a7 = 0.736682^{+0.179(24.3\%)}_{-0.179(24.3\%)}$, $a8 = 4.94$

Candidate #18

χ^2/NDF = 106.9/30, RMSE = 0.02393, R2 = 1.0



1.0*(a2 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)*(a7 + ((x0 - 1568.5) * 0.000145275))))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.238095^{+0.000407(0.171\%)}_{-0.000407(0.171\%)}$, $a2 = -0.000115$,

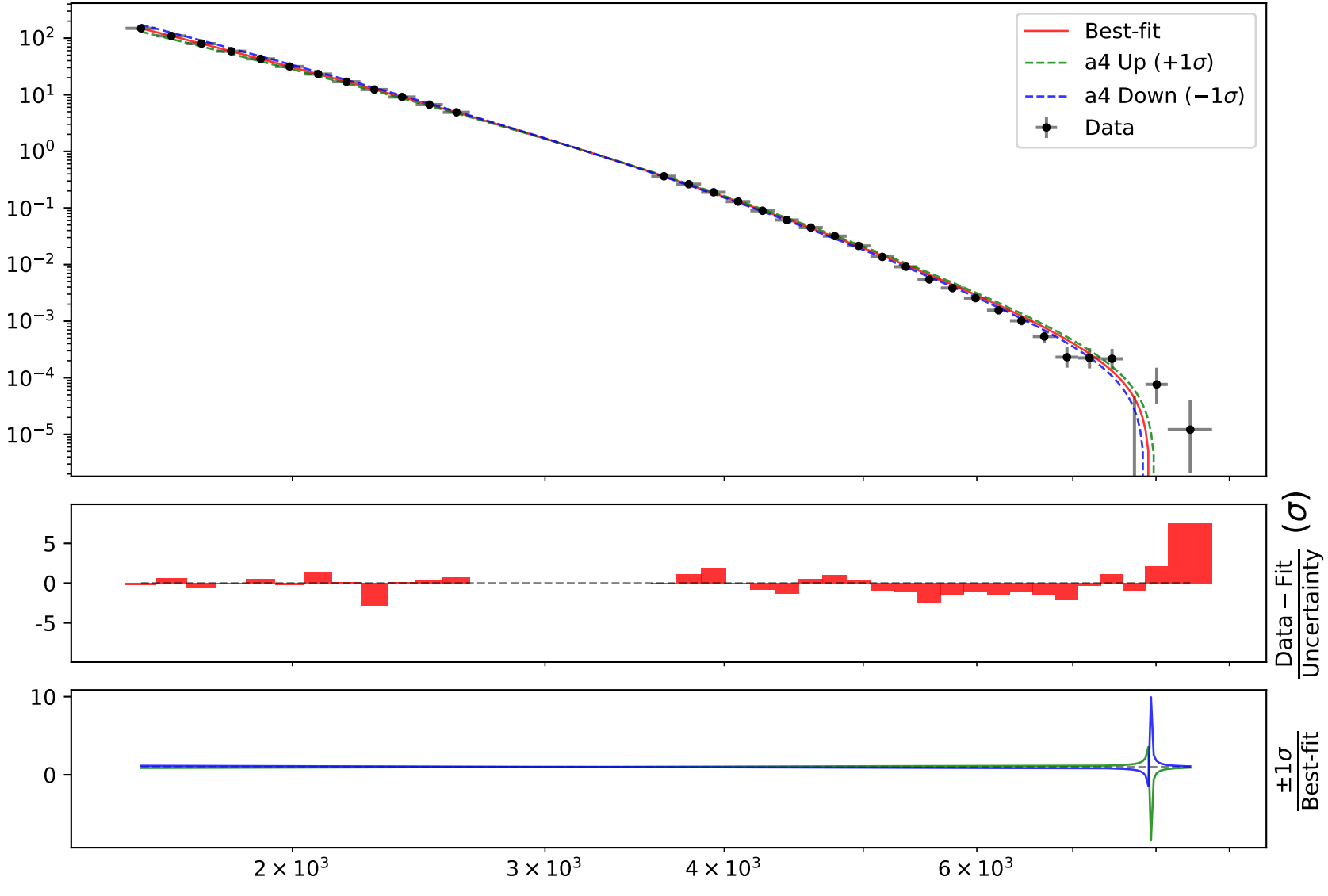
$a3 = 4.98e-05$, $\mathbf{a4 = 0.572135^{+0.0199(3.48\%)}_{-0.0199(3.48\%)}}$,

$a5 = 0.431686^{+0.0477(11.0\%)}_{-0.0477(11.0\%)}$, $a6 = 0.402989^{+0.131(32.5\%)}_{-0.131(32.5\%)}$,

$a7 = 0.736682^{+0.179(24.3\%)}_{-0.179(24.3\%)}$, $a8 = 4.94$

Candidate #18

χ^2/NDF = 106.9/30, RMSE = 0.02393, R2 = 1.0



1.0*(a2 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)*(a7 + ((x0 - 1568.5) * 0.000145275))))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.238095^{+0.000407(0.171\%)}_{-0.000407(0.171\%)}$, $a2 = -0.000115$,

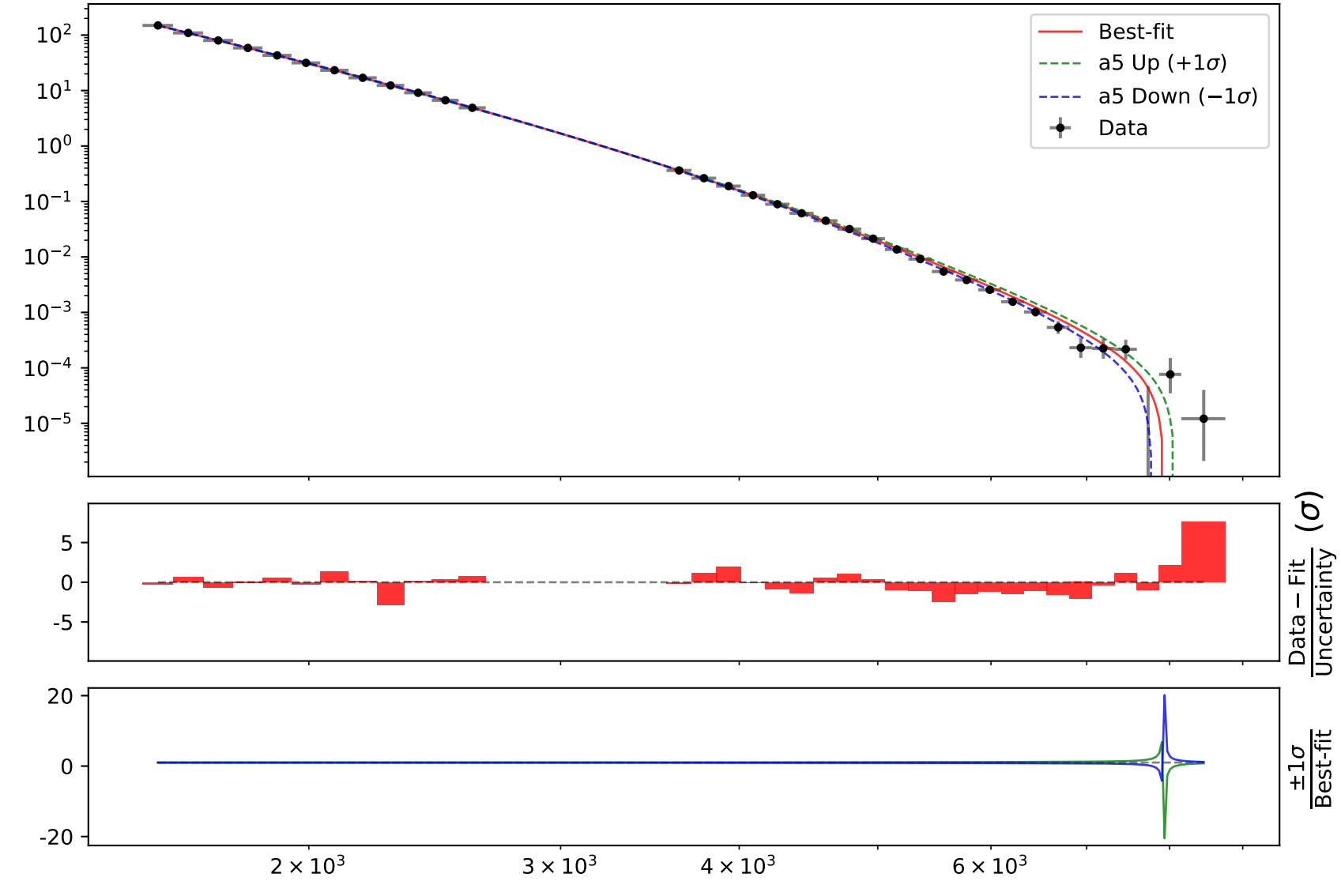
$a3 = 4.98e-05$, $a4 = 0.572135^{+0.0199(3.48\%)}_{-0.0199(3.48\%)}$,

$a5 = 0.431686^{+0.0477(11.0\%)}_{-0.0477(11.0\%)}$, $a6 = 0.402989^{+0.131(32.5\%)}_{-0.131(32.5\%)}$,

$a7 = 0.736682^{+0.179(24.3\%)}_{-0.179(24.3\%)}$, $a8 = 4.94$

Candidate #18

χ^2/NDF = 106.9/30, RMSE = 0.02393, R2 = 1.0



1.0*(a2 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)*(a7 + ((x0 - 1568.5) * 0.000145275))))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.238095^{+0.000407(0.171\%)}_{-0.000407(0.171\%)}$, $a2 = -0.000115$,

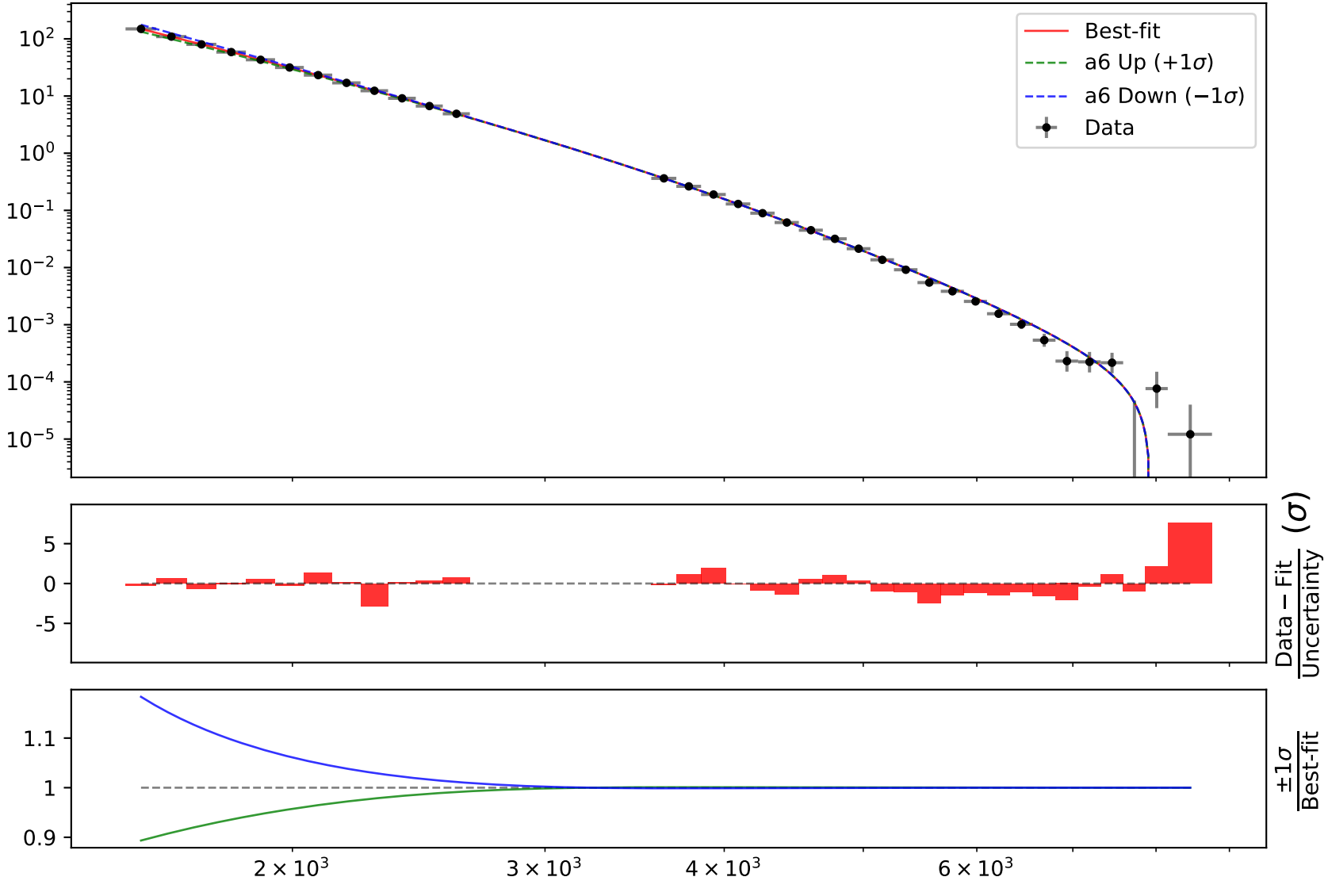
$a3 = 4.98e-05$, $a4 = 0.572135^{+0.0199(3.48\%)}_{-0.0199(3.48\%)}$,

$a5 = 0.431686^{+0.0477(11.0\%)}_{-0.0477(11.0\%)}$, $\mathbf{a6 = 0.402989^{+0.131(32.5\%)}_{-0.131(32.5\%)}}$,

$a7 = 0.736682^{+0.179(24.3\%)}_{-0.179(24.3\%)}$, $a8 = 4.94$

Candidate #18

χ^2/NDF = 106.9/30, RMSE = 0.02393, R2 = 1.0



1.0*(a2 + (a3*tanh(a6 + a8*((x0 - 1568.5) * 0.000145275)*(a7 + ((x0 - 1568.5) * 0.000145275))))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + a5*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.238095^{+0.000407(0.171\%)}_{-0.000407(0.171\%)}$, $a2 = -0.000115$,

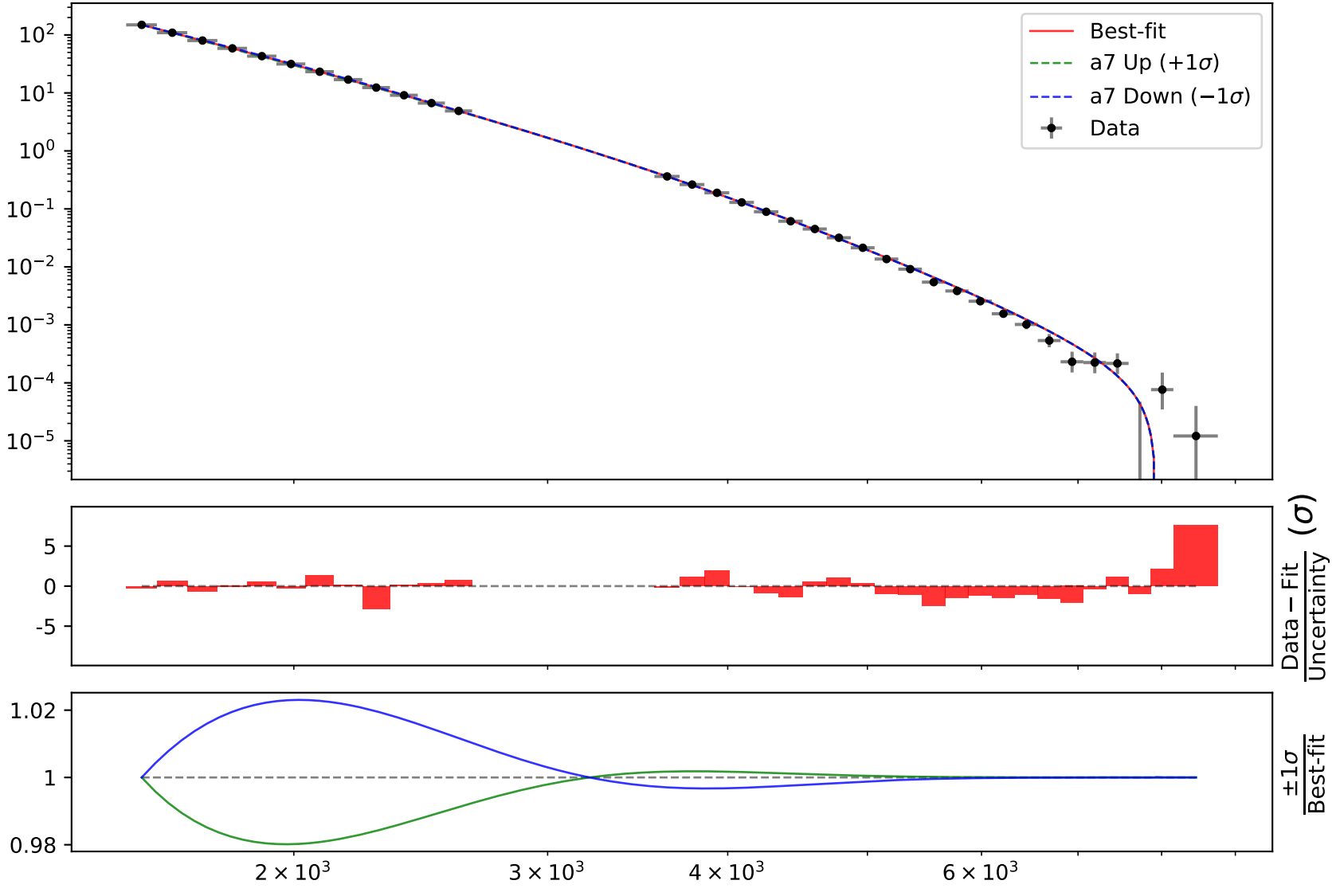
$a3 = 4.98e-05$, $a4 = 0.572135^{+0.0199(3.48\%)}_{-0.0199(3.48\%)}$,

$a5 = 0.431686^{+0.0477(11.0\%)}_{-0.0477(11.0\%)}$, $a6 = 0.402989^{+0.131(32.5\%)}_{-0.131(32.5\%)}$,

$a7 = 0.736682^{+0.179(24.3\%)}_{-0.179(24.3\%)}$, $a8 = 4.94$

Candidate #18

χ^2/NDF = 106.9/30, RMSE = 0.02393, R2 = 1.0



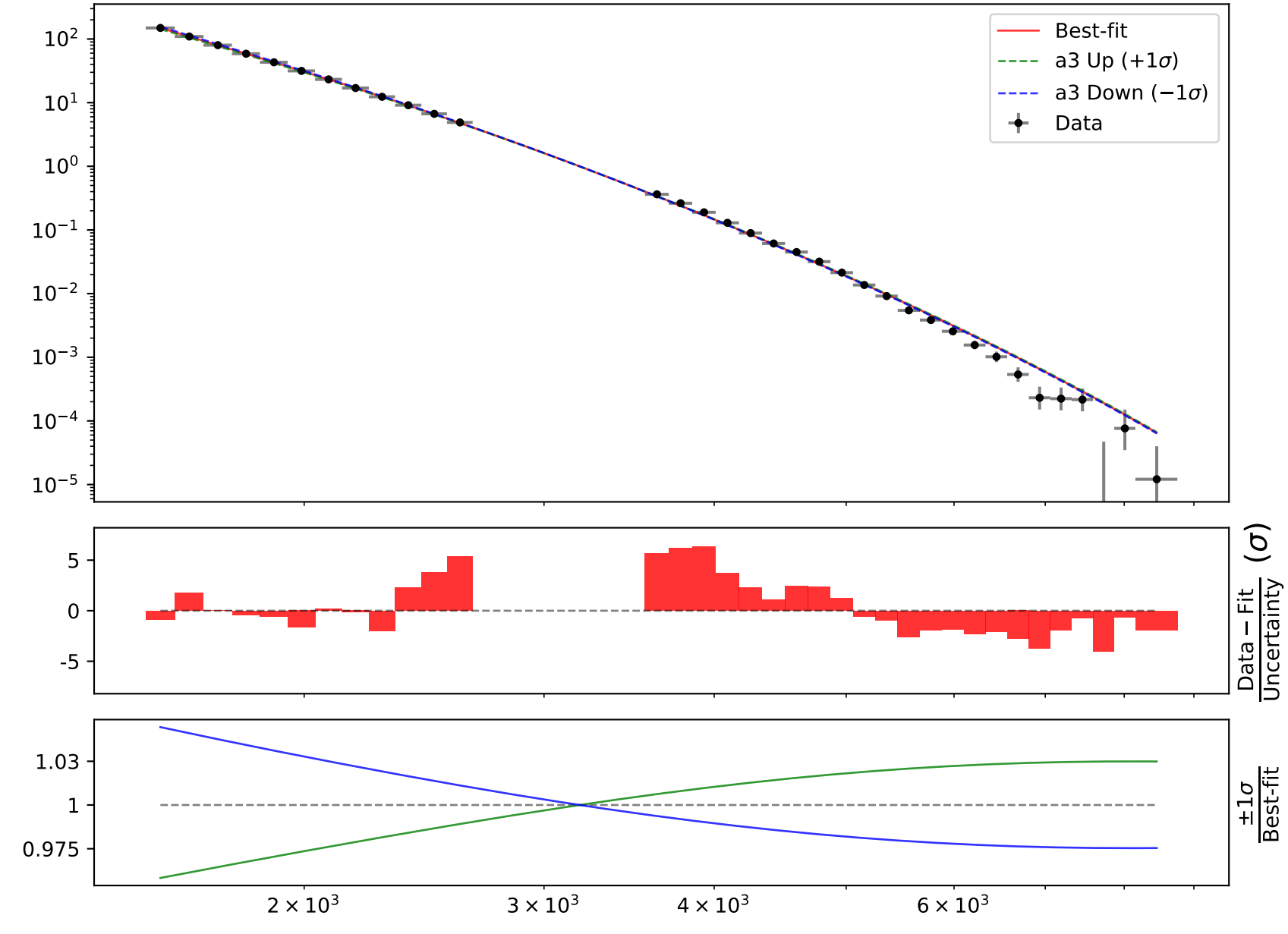
Candidate function #17

1.0*((a2*tanh(a5 + a6*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.235$, $a2 = 4.98e-05$,
$\mathbf{a3 = 0.517391^{+0.00529(1.02\%)}_{-0.00529(1.02\%)}}$, $a4 = 0.544452^{+0.0305(5.6\%)}_{-0.0305(5.6\%)}$,
$a5 = 1.09102^{+0.189(17.3\%)}_{-0.189(17.3\%)}$, $a6 = 10.3529^{+3.52(34.0\%)}_{-3.52(34.0\%)}$

Candidate #17

χ^2/NDF = 274.3/31, RMSE = 0.04628, R2 = 1.0



1.0*((a2*tanh(a5 + a6*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

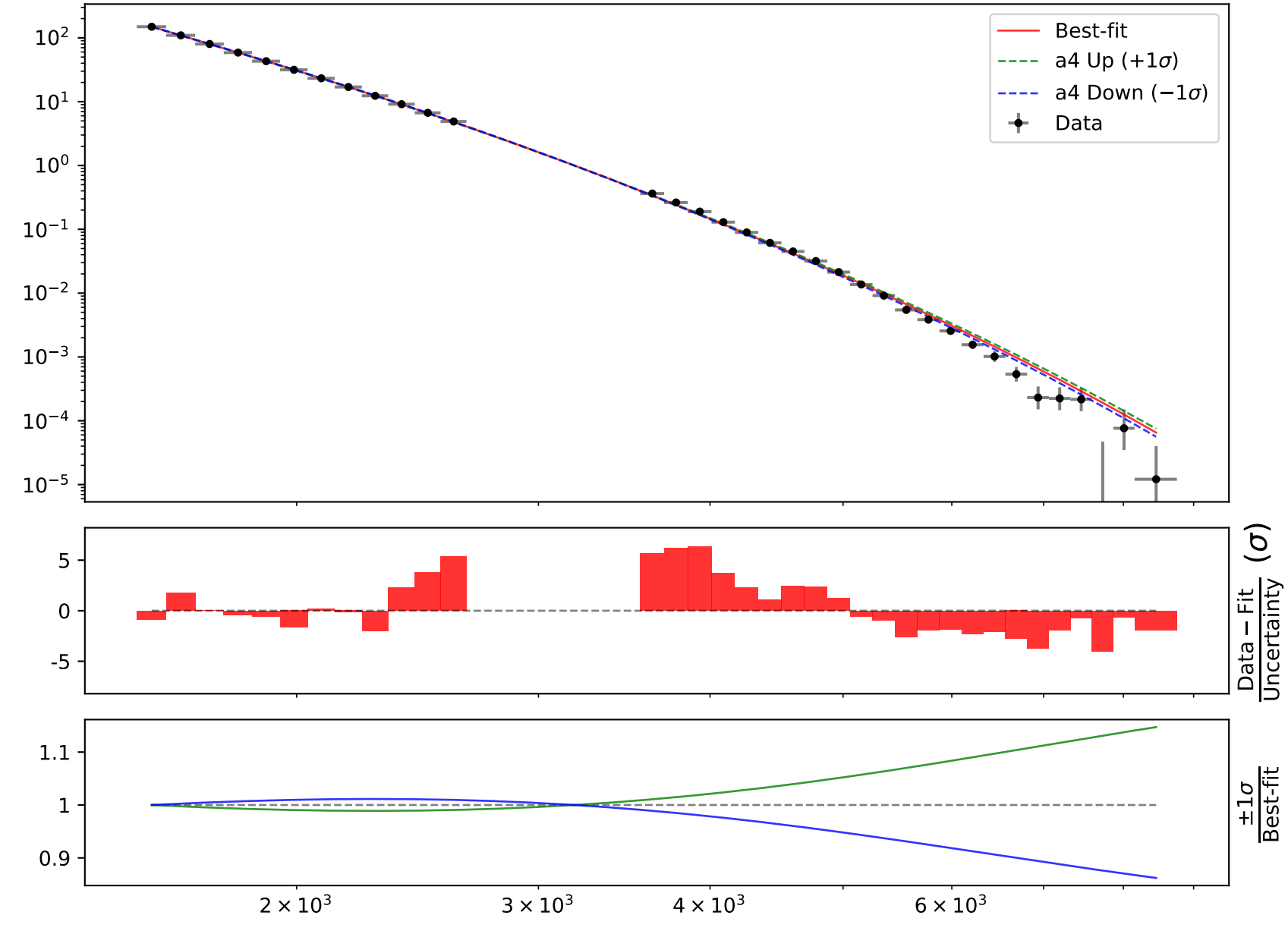
$a1 = -0.235$, $a2 = 4.98e-05$,

$a3 = 0.517391^{+0.00529(1.02\%)}_{-0.00529(1.02\%)}$, $\mathbf{a4 = 0.544452^{+0.0305(5.6\%)}_{-0.0305(5.6\%)}}$,

$a5 = 1.09102^{+0.189(17.3\%)}_{-0.189(17.3\%)}$, $a6 = 10.3529^{+3.52(34.0\%)}_{-3.52(34.0\%)}$

Candidate #17

χ^2/NDF = 274.3/31, RMSE = 0.04628, R2 = 1.0



1.0*((a2*tanh(a5 + a6*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

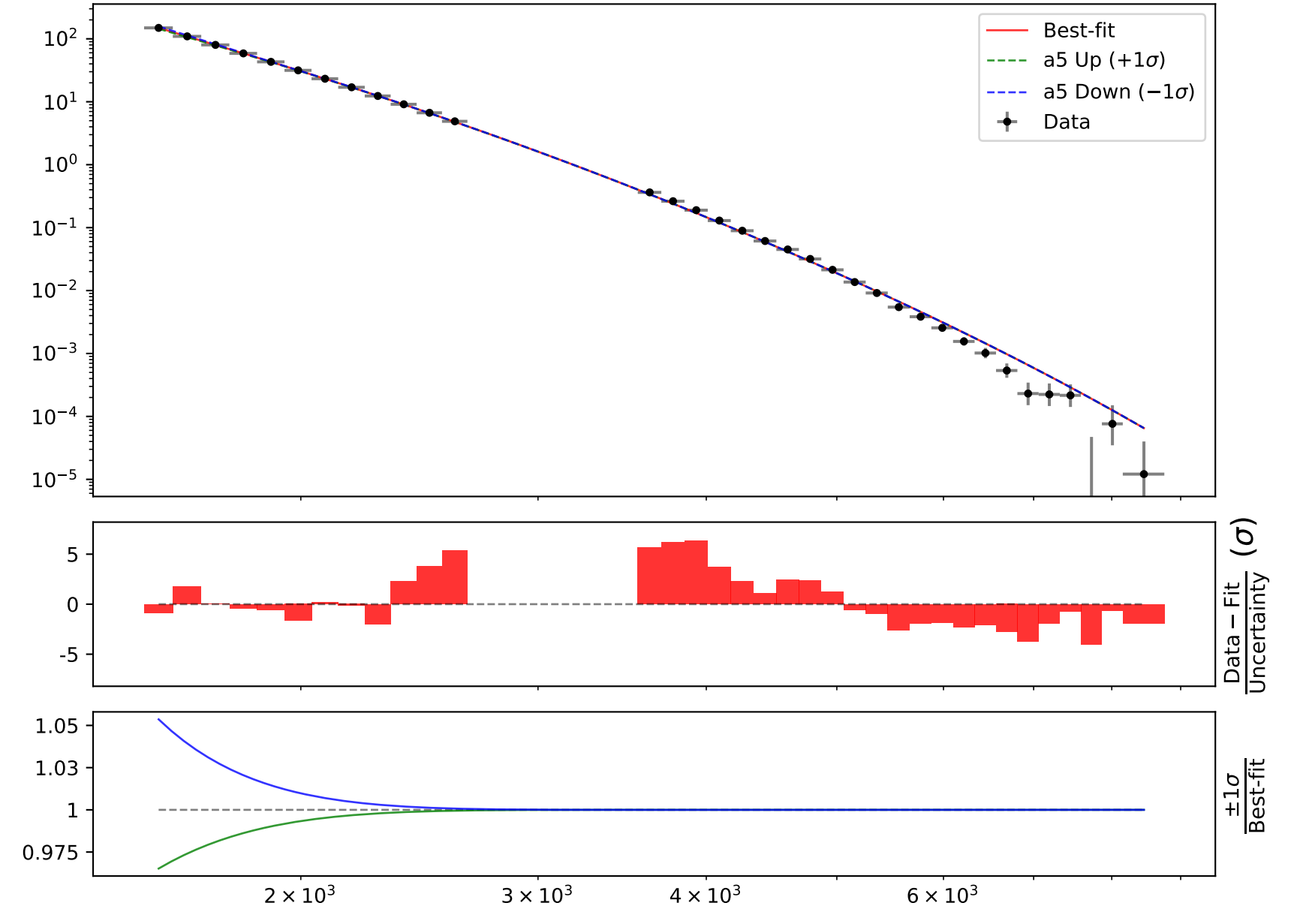
$a1 = -0.235$, $a2 = 4.98e-05$,

$a3 = 0.517391^{+0.00529(1.02\%)}_{-0.00529(1.02\%)}$, $a4 = 0.544452^{+0.0305(5.6\%)}_{-0.0305(5.6\%)}$,

$a5 = 1.09102^{+0.189(17.3\%)}_{-0.189(17.3\%)}$, $a6 = 10.3529^{+3.52(34.0\%)}_{-3.52(34.0\%)}$

Candidate #17

χ^2/NDF = 274.3/31, RMSE = 0.04628, R2 = 1.0



1.0*((a2*tanh(a5 + a6*((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

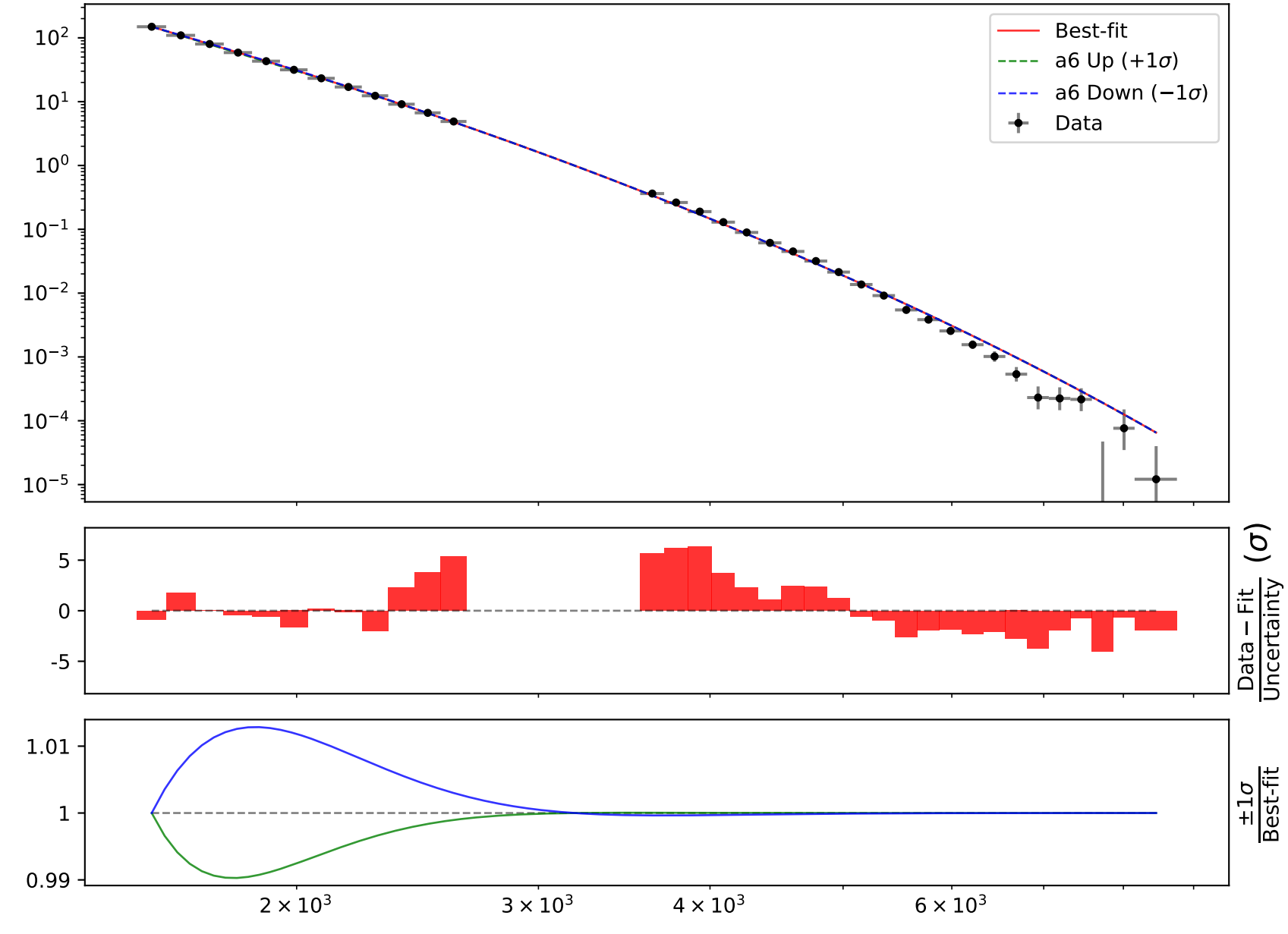
$a1 = -0.235$, $a2 = 4.98e-05$,

$a3 = 0.517391^{+0.00529(1.02\%)}_{-0.00529(1.02\%)}$, $a4 = 0.544452^{+0.0305(5.6\%)}_{-0.0305(5.6\%)}$,

$a5 = 1.09102^{+0.189(17.3\%)}_{-0.189(17.3\%)}$, $\mathbf{a6 = 10.3529^{+3.52(34.0\%)}_{-3.52(34.0\%)}}$

Candidate #17

χ^2/NDF = 274.3/31, RMSE = 0.04628, R2 = 1.0



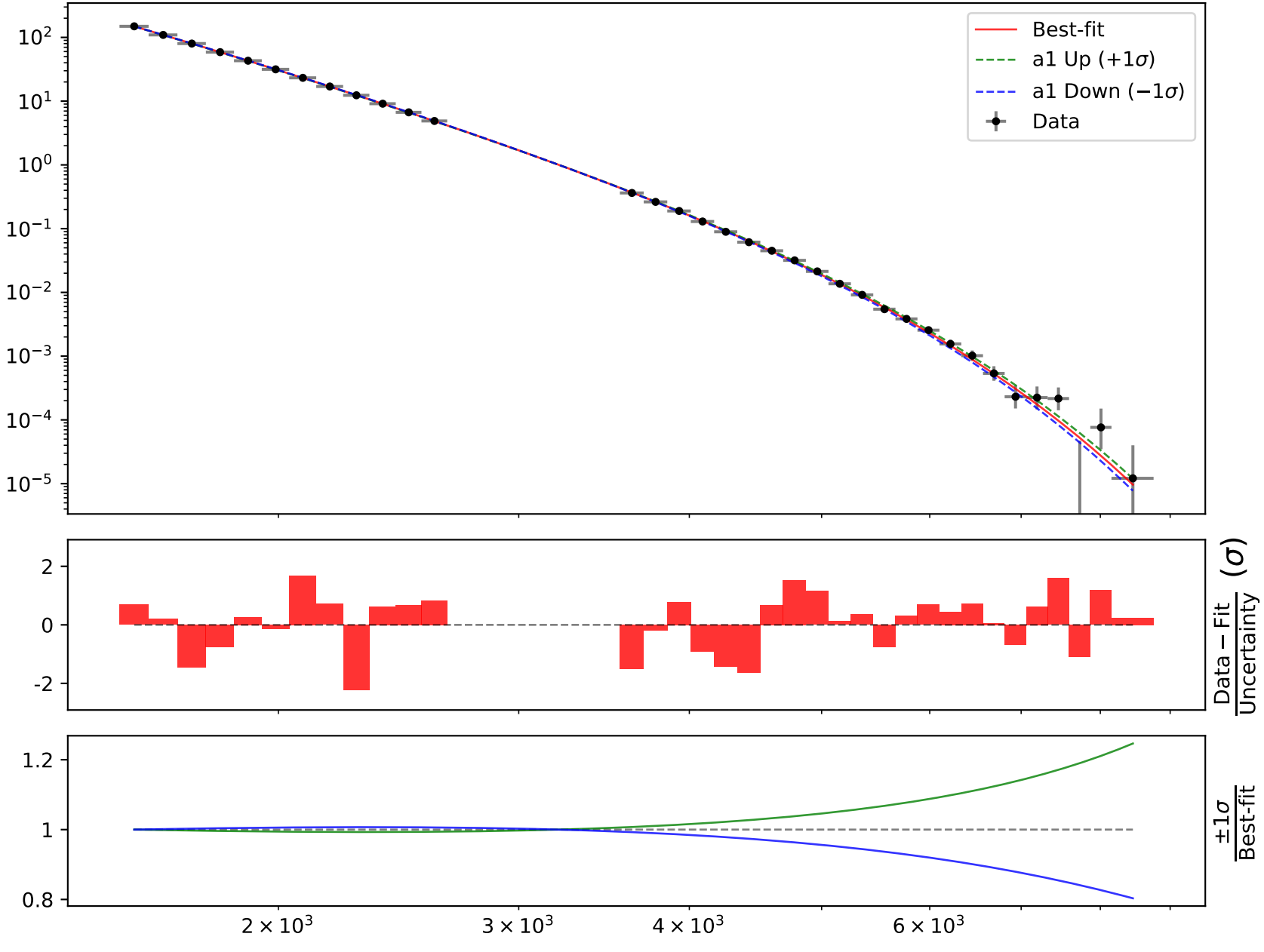
Candidate function #16

1.0*((a3*exp(a1*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + ((x0 - 1568.5) * 0.000145275))))

a1 = $-4.34803^{+0.2607(6.0\%)}_{-0.2592(5.96\%)}$, a2 = $-0.238618^{+0.0002042(0.0856\%)}_{-0.000204(0.0855\%)}$,
a3 = $8.95886e-05^{+1.561e-05(17.4\%)}_{-1.337e-05(14.9\%)}$, a4 = $0.477612^{+0.009343(1.96\%)}_{-0.00922(1.93\%)}$

Candidate #16

χ^2/NDF = 33.99/31, RMSE = 0.03223, R2 = 1.0



1.0*((a3*exp(a1*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -4.34803^{+0.2607(6.0\%)}_{-0.2592(5.96\%)}$, **$a2 = -0.238618^{+0.0002042(0.0856\%)}_{-0.000204(0.0855\%)}$**,
$a3 = 8.95886e-05^{+1.561e-05(17.4\%)}_{-1.337e-05(14.9\%)}$, $a4 = 0.477612^{+0.009343(1.96\%)}_{-0.00922(1.93\%)}$

Candidate #16

χ^2/NDF = 33.99/31, RMSE = 0.03223, R2 = 1.0

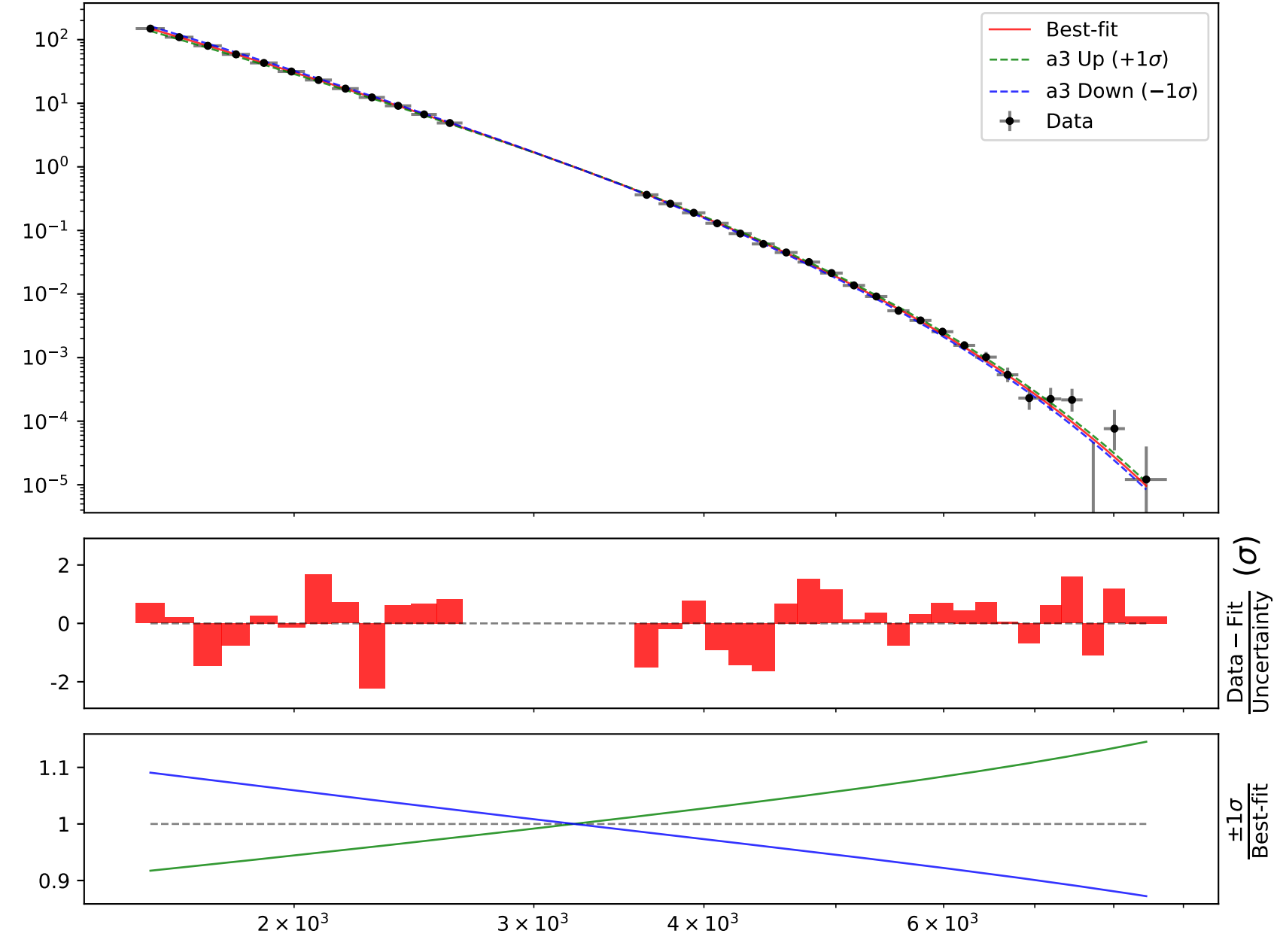
1.0*((a3*exp(a1*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -4.34803^{+0.2607(6.0\%)}_{-0.2592(5.96\%)}$, $a2 = -0.238618^{+0.0002042(0.0856\%)}_{-0.000204(0.0855\%)}$,

$a3 = 8.95886e-05^{+1.561e-05(17.4\%)}_{-1.337e-05(14.9\%)}$, $a4 = 0.477612^{+0.009343(1.96\%)}_{-0.00922(1.93\%)}$

Candidate #16

χ^2/NDF = 33.99/31, RMSE = 0.03223, R2 = 1.0



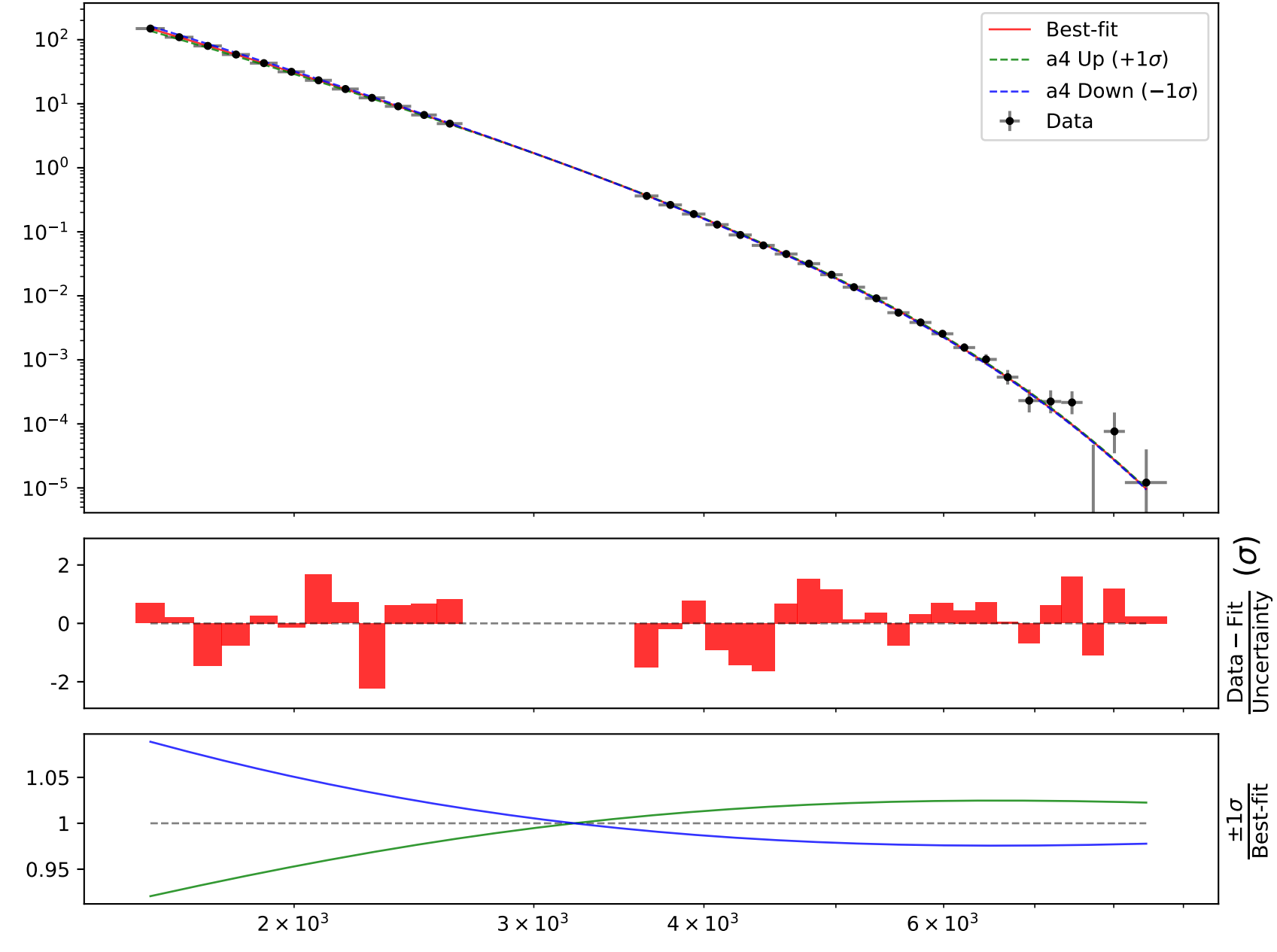
1.0*((a3*exp(a1*((x0 - 1568.5) * 0.000145275)))**((a2 + ((x0 - 1568.5) * 0.000145275))/tanh(a4 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -4.34803^{+0.2607(6.0\%)}_{-0.2592(5.96\%)}$, $a2 = -0.238618^{+0.0002042(0.0856\%)}_{-0.000204(0.0855\%)}$,

$a3 = 8.95886e-05^{+1.561e-05(17.4\%)}_{-1.337e-05(14.9\%)}$, $\mathbf{a4 = 0.477612^{+0.009343(1.96\%)}_{-0.00922(1.93\%)}}$

Candidate #16

χ^2/NDF = 33.99/31, RMSE = 0.03223, R2 = 1.0



Candidate function #15

1.0*((a2*exp(-((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

a1 = $-0.236404^{+0.0005387(0.228\%)}_{-0.0005362(0.227\%)}$, $a2 = 4.01e-05$,
$a3 = 0.521196^{+0.001425(0.273\%)}_{-0.001428(0.274\%)}$, $a4 = 0.804665^{+0.01497(1.86\%)}_{-0.01496(1.86\%)}$

Candidate #15

χ^2/NDF = 387.8/32, RMSE = 0.1719, R2 = 1.0

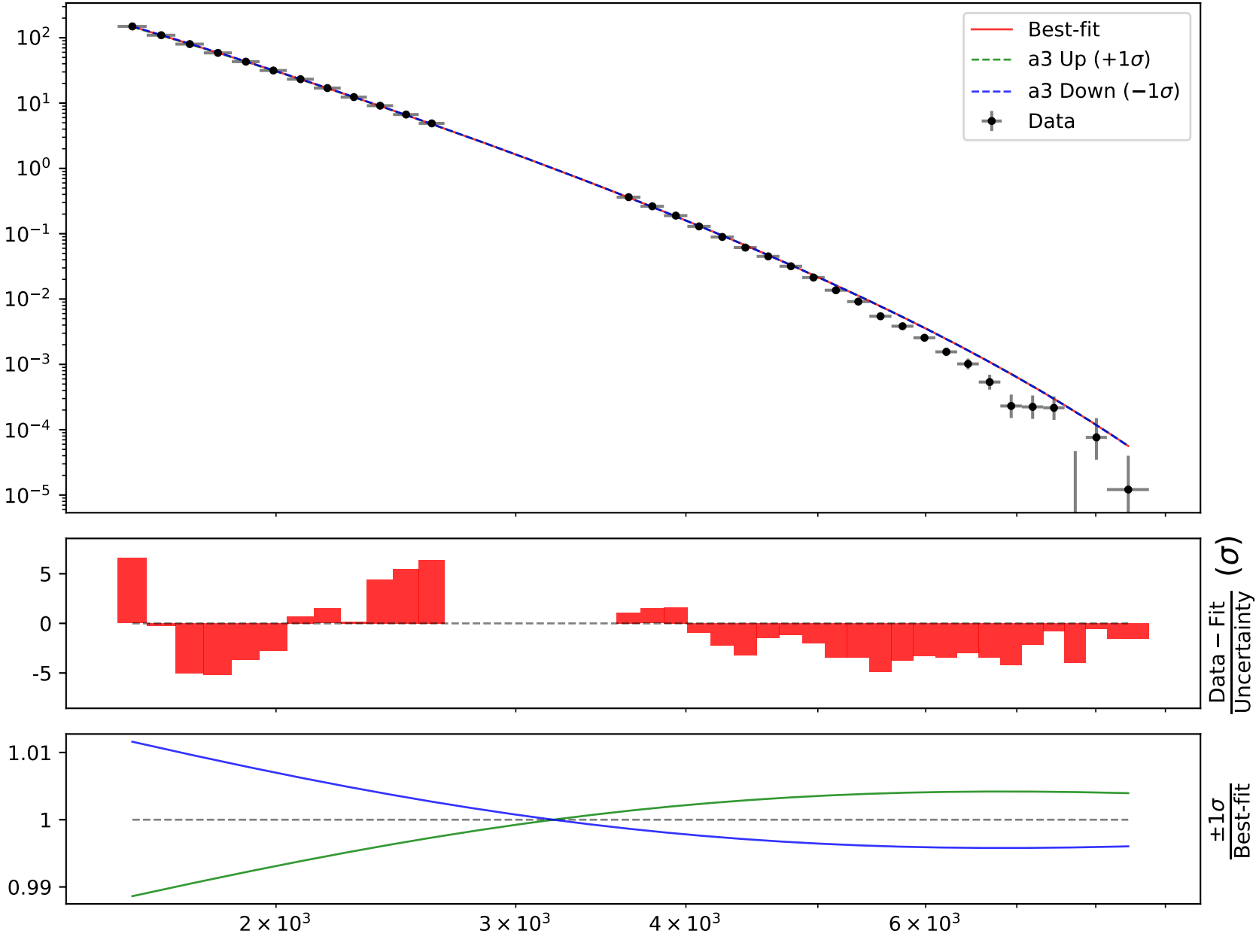
1.0*((a2*exp(-((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.236404^{+0.0005387(0.228\%)}_{-0.0005362(0.227\%)}$, $a2 = 4.01e-05$,

$a3 = 0.521196^{+0.001425(0.273\%)}_{-0.001428(0.274\%)}$, $a4 = 0.804665^{+0.01497(1.86\%)}_{-0.01496(1.86\%)}$

Candidate #15

χ^2/NDF = 387.8/32, RMSE = 0.1719, R2 = 1.0



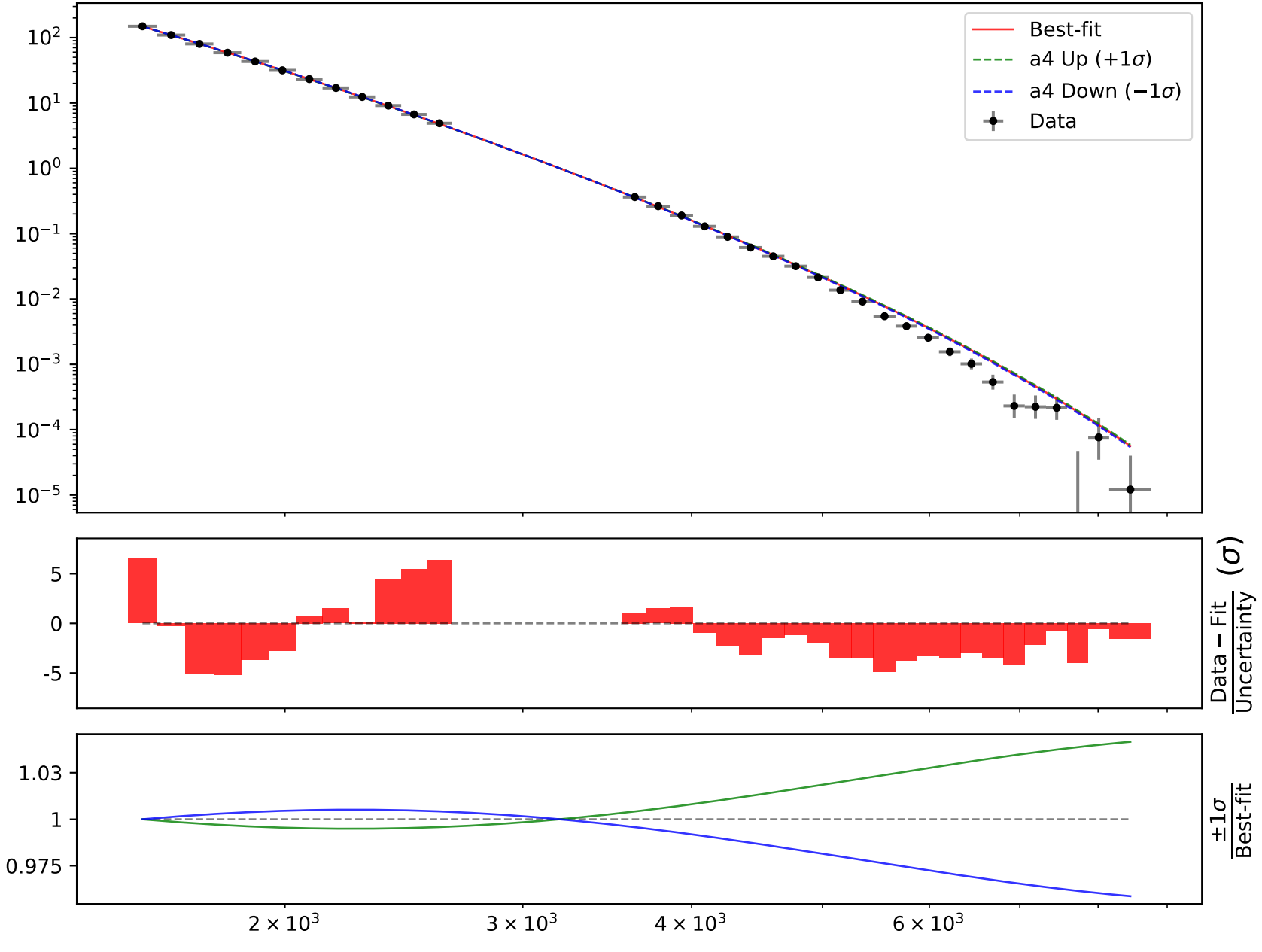
1.0*((a2*exp(-((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.236404^{+0.0005387(0.228\%)}_{-0.0005362(0.227\%)}$, $a2 = 4.01e-05$,

$a3 = 0.521196^{+0.001425(0.273\%)}_{-0.001428(0.274\%)}$, $\mathbf{a4 = 0.804665^{+0.01497(1.86\%)}_{-0.01496(1.86\%)}}$

Candidate #15

χ^2/NDF = 387.8/32, RMSE = 0.1719, R2 = 1.0



Candidate function #14

1.0*((a2*exp(-((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + ((x0 - 1568.5) * 0.000145275))))

a1 = $-0.236926^{+0.0003762(0.159\%)}_{-0.0003743(0.158\%)}$, a2 = $1.15892e-05^{+9.483e-07(8.18\%)}_{-8.915e-07(7.69\%)}$,

a3 = $0.601871^{+0.004555(0.757\%)}_{-0.004464(0.742\%)}$

Candidate #14

χ^2/NDF = 210.7/32, RMSE = 0.1379, R2 = 1.0

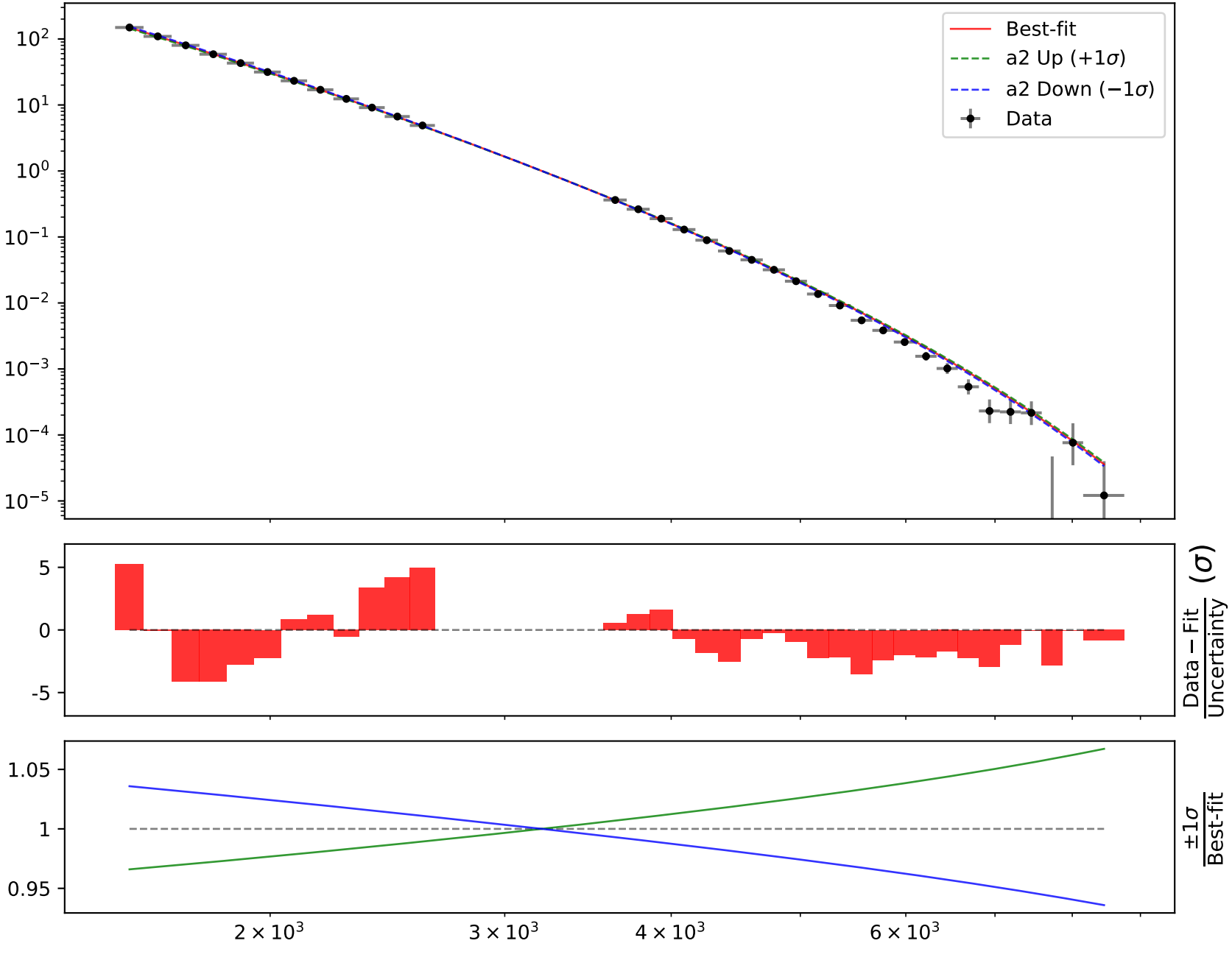
1.0*((a2*exp(-((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -0.236926^{+0.0003762(0.159\%)}_{-0.0003743(0.158\%)}$, $\mathbf{a2 = 1.15892e-05^{+9.483e-07(8.18\%)}_{-8.915e-07(7.69\%)}}$,

$a3 = 0.601871^{+0.004555(0.757\%)}_{-0.004464(0.742\%)}$

Candidate #14

χ^2/NDF = 210.7/32, RMSE = 0.1379, R2 = 1.0



1.0*((a2*exp(-((x0 - 1568.5) * 0.000145275)))**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -0.236926^{+0.0003762(0.159\%)}_{-0.0003743(0.158\%)}$, $a2 = 1.15892e-05^{+9.483e-07(8.18\%)}_{-8.915e-07(7.69\%)}$,

$a3 = 0.601871^{+0.004555(0.757\%)}_{-0.004464(0.742\%)}$

Candidate #14

χ^2/NDF = 210.7/32, RMSE = 0.1379, R2 = 1.0

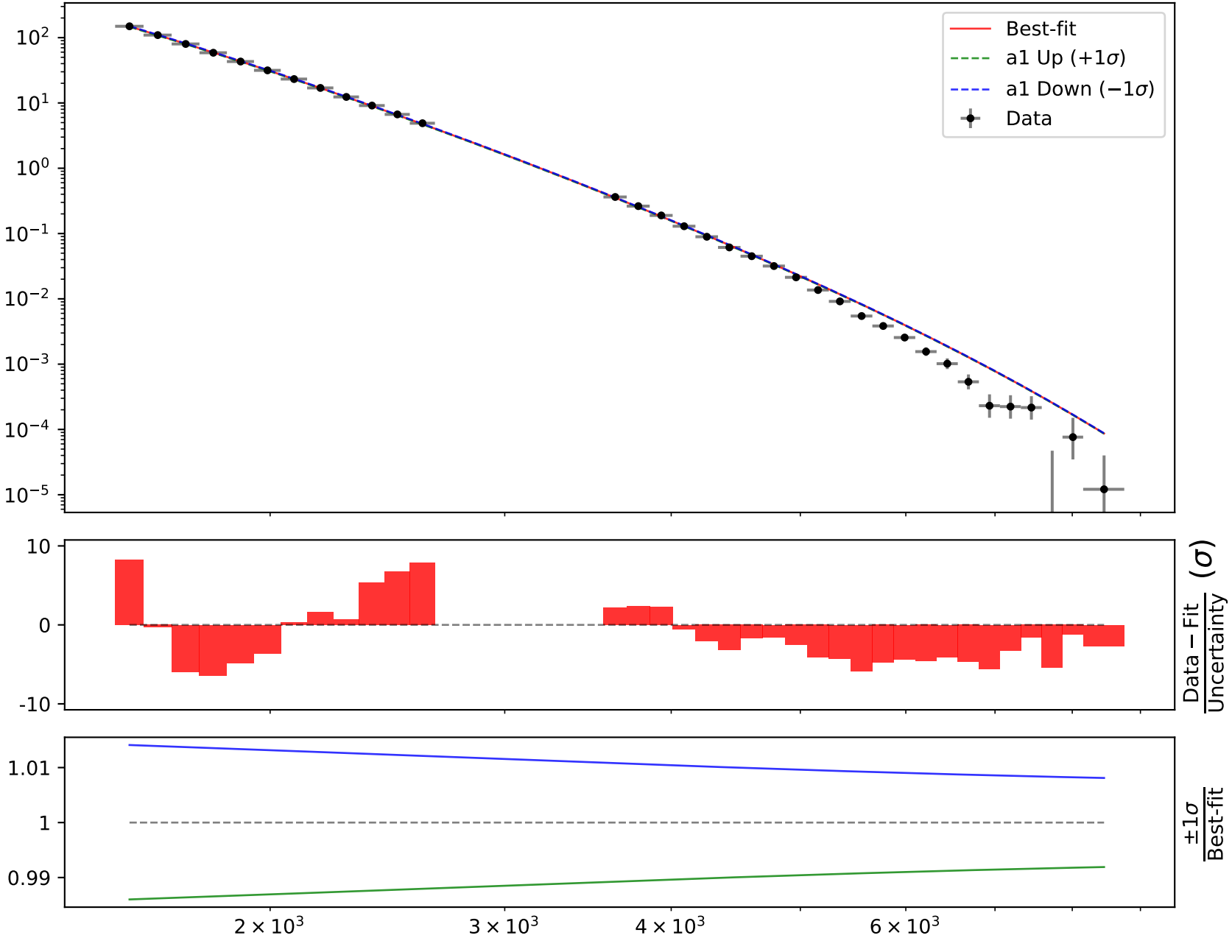
Candidate function #13

1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

a1 = $-0.235682^{+0.0006639(0.282\%)}_{-0.0006602(0.28\%)}$, $a2 = 2.46e-05$,
$a3 = 0.54974^{+0.001899(0.345\%)}_{-0.001904(0.346\%)}$, $a4 = 0.772209^{+0.01946(2.52\%)}_{-0.01944(2.52\%)}$

Candidate #13

χ^2/NDF = 617.2/32, RMSE = 0.2135, R2 = 1.0



1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.235682^{+0.0006639(0.282\%)}_{-0.0006602(0.28\%)}$, $a2 = 2.46e-05$,

$a3 = 0.54974^{+0.001899(0.345\%)}_{-0.001904(0.346\%)}$, $a4 = 0.772209^{+0.01946(2.52\%)}_{-0.01944(2.52\%)}$

Candidate #13

χ^2/NDF = 617.2/32, RMSE = 0.2135, R2 = 1.0

1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.235682^{+0.0006639(0.282\%)}_{-0.0006602(0.28\%)}$, $a2 = 2.46e-05$,
$a3 = 0.54974^{+0.001899(0.345\%)}_{-0.001904(0.346\%)}$, **$a4 = 0.772209^{+0.01946(2.52\%)}_{-0.01944(2.52\%)}$**

Candidate #13

χ^2/NDF = 617.2/32, RMSE = 0.2135, R2 = 1.0

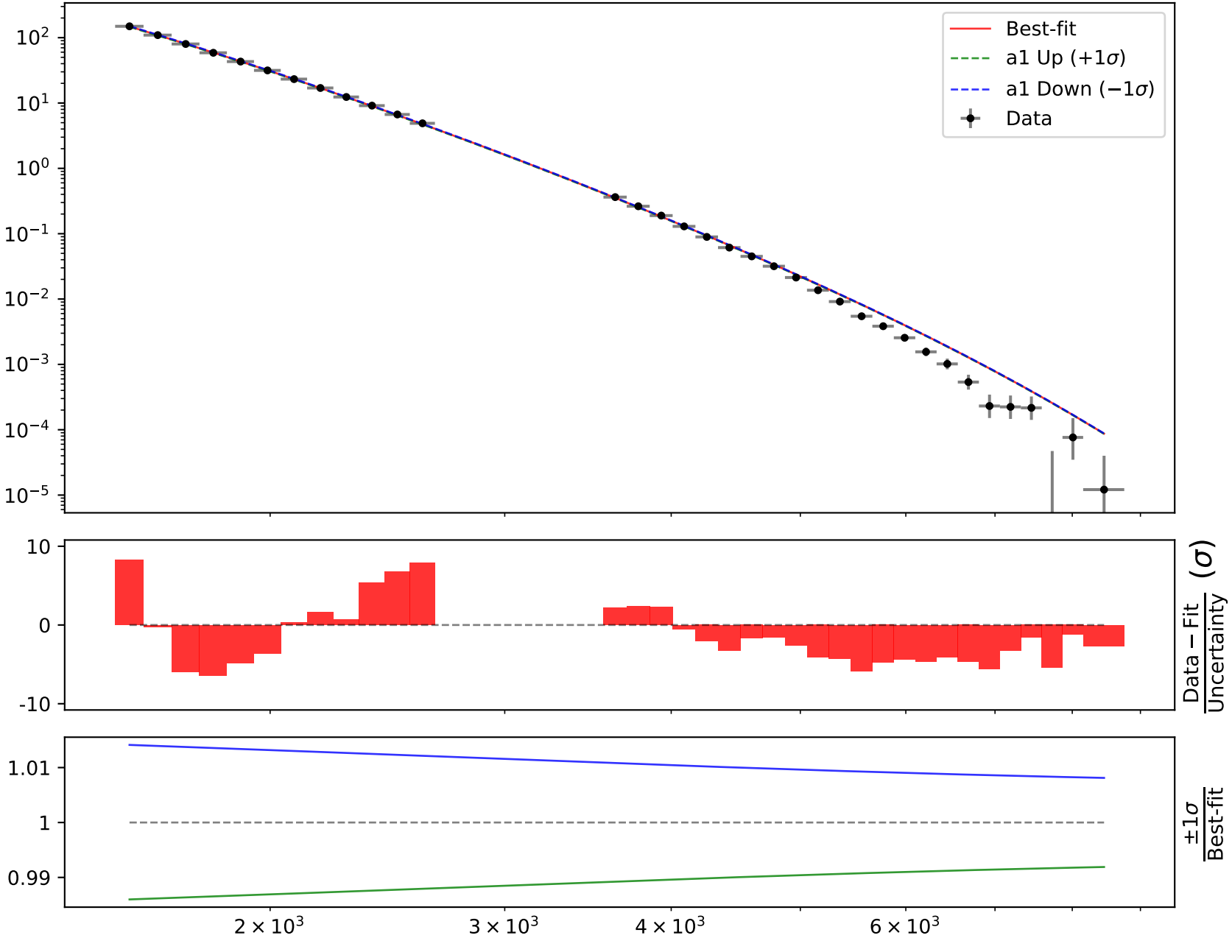
Candidate function #12

1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

a1 = $-0.235673^{+0.0006649(0.282\%)}_{-0.0006613(0.281\%)}$, $a2 = 2.49e-05$,
$a3 = 0.548956^{+0.001899(0.346\%)}_{-0.001904(0.347\%)}$, $a4 = 0.77038^{+0.01944(2.52\%)}_{-0.01942(2.52\%)}$

Candidate #12

χ^2/NDF = 619.8/32, RMSE = 0.2141, R2 = 1.0



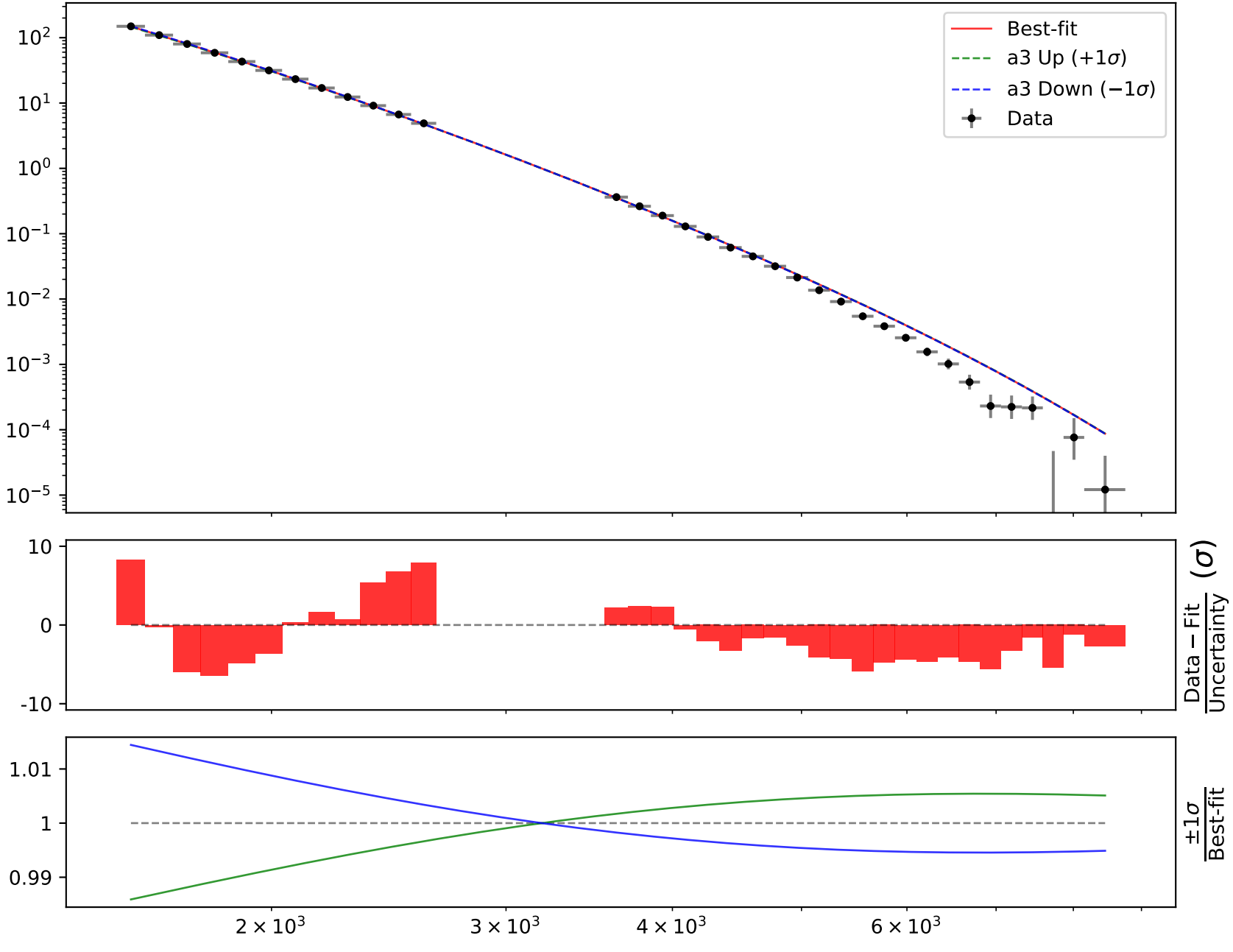
1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.235673^{+0.0006649(0.282\%)}_{-0.0006613(0.281\%)}$, $a2 = 2.49e-05$,

$a3 = 0.548956^{+0.001899(0.346\%)}_{-0.001904(0.347\%)}$, $a4 = 0.77038^{+0.01944(2.52\%)}_{-0.01942(2.52\%)}$

Candidate #12

χ^2/NDF = 619.8/32, RMSE = 0.2141, R2 = 1.0



1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.235673^{+0.0006649(0.282\%)}_{-0.0006613(0.281\%)}$, $a2 = 2.49e-05$,
$a3 = 0.548956^{+0.001899(0.346\%)}_{-0.001904(0.347\%)}$, **$a4 = 0.77038^{+0.01944(2.52\%)}_{-0.01942(2.52\%)}$**

Candidate #12

χ^2/NDF = 619.8/32, RMSE = 0.2141, R2 = 1.0

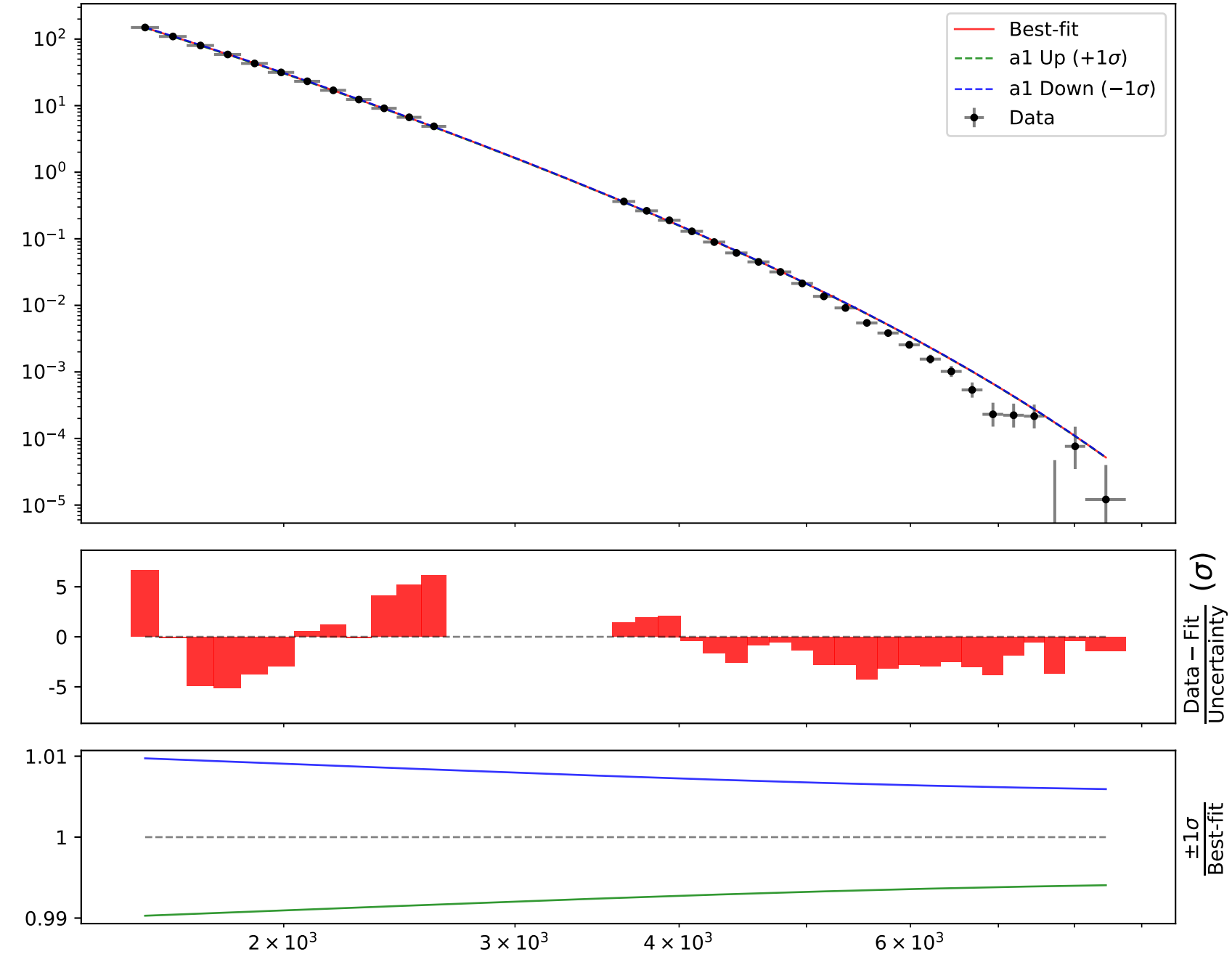
Candidate function #11

1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + ((x0 - 1568.5) * 0.000145275))))

a1 = $-0.23635^{+0.0004612(0.195\%)}_{-0.0004579(0.194\%)}$, a2 = $6.22378e-06^{+6.424e-07(10.3\%)}_{-5.952e-07(9.56\%)}$,
a3 = $0.642462^{+0.005972(0.93\%)}_{-0.005815(0.905\%)}$

Candidate #11

χ^2/NDF = 333.6/32, RMSE = 0.1718, R2 = 1.0

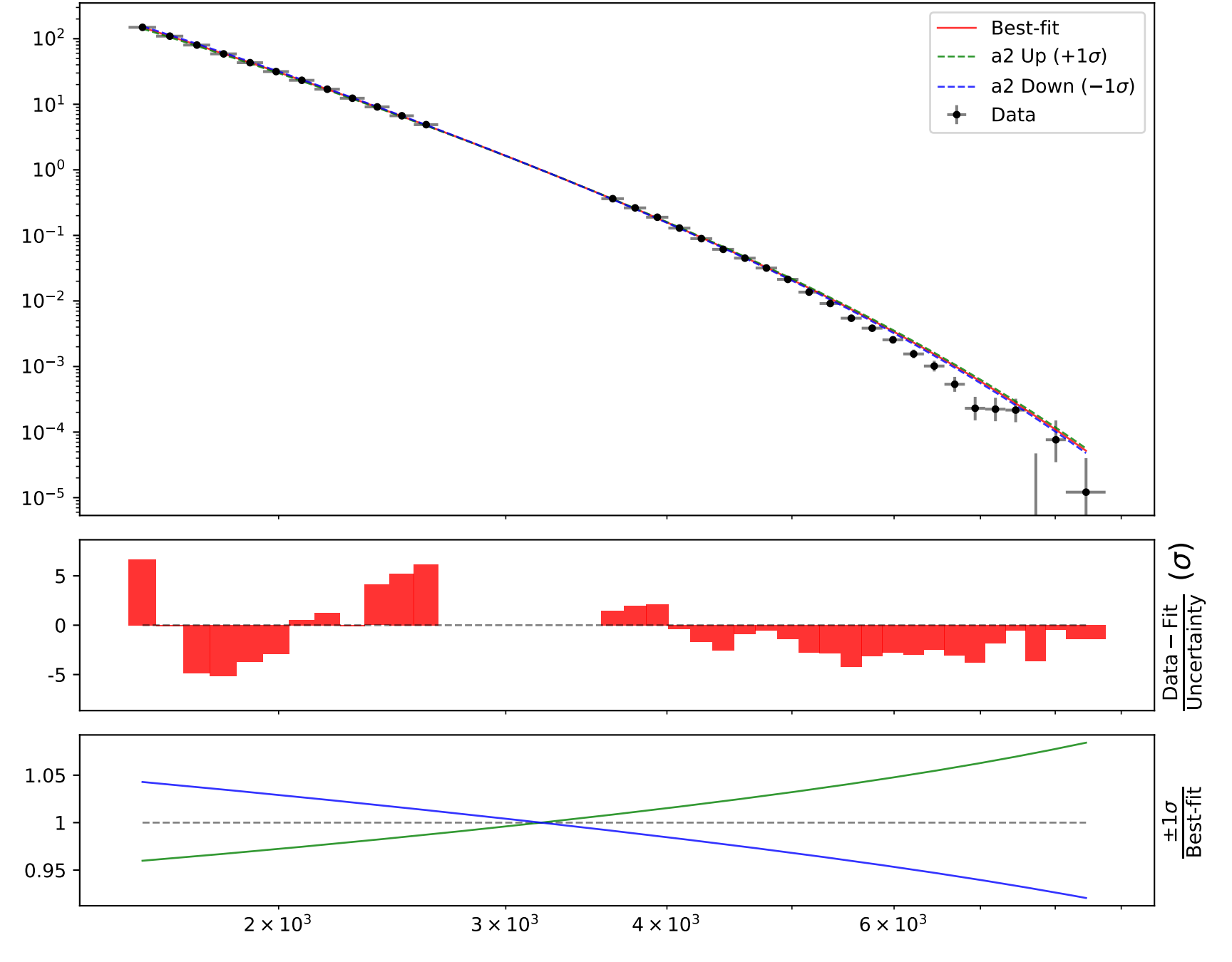


1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -0.23635^{+0.0004612(0.195\%)}_{-0.0004579(0.194\%)}$, **$a2 = 6.22378e-06^{+6.424e-07(10.3\%)}_{-5.952e-07(9.56\%)}$**,
$a3 = 0.642462^{+0.005972(0.93\%)}_{-0.005815(0.905\%)}$

Candidate #11

χ^2/NDF = 333.6/32, RMSE = 0.1718, R2 = 1.0



1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -0.23635^{+0.0004612(0.195\%)}_{-0.0004579(0.194\%)}$, $a2 = 6.22378e-06^{+6.424e-07(10.3\%)}_{-5.952e-07(9.56\%)}$,

$a3 = 0.642462^{+0.005972(0.93\%)}_{-0.005815(0.905\%)}$

Candidate #11

χ^2/NDF = 333.6/32, RMSE = 0.1718, R2 = 1.0

Candidate function #10

1.0*(a2**((a1 + a5*((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

a1 = $-0.343369^{+0.002625(0.765\%)}_{-0.002546(0.742\%)}$, $a2 = 4.98e-05$,
$a3 = 0.828413^{+0.00937(1.13\%)}_{-0.009539(1.15\%)}$, $a4 = 1.70294^{+0.04488(2.64\%)}_{-0.04453(2.61\%)}$,
$a5 = 1.43926^{+0.01022(0.71\%)}_{-0.01054(0.732\%)}$

Candidate #10

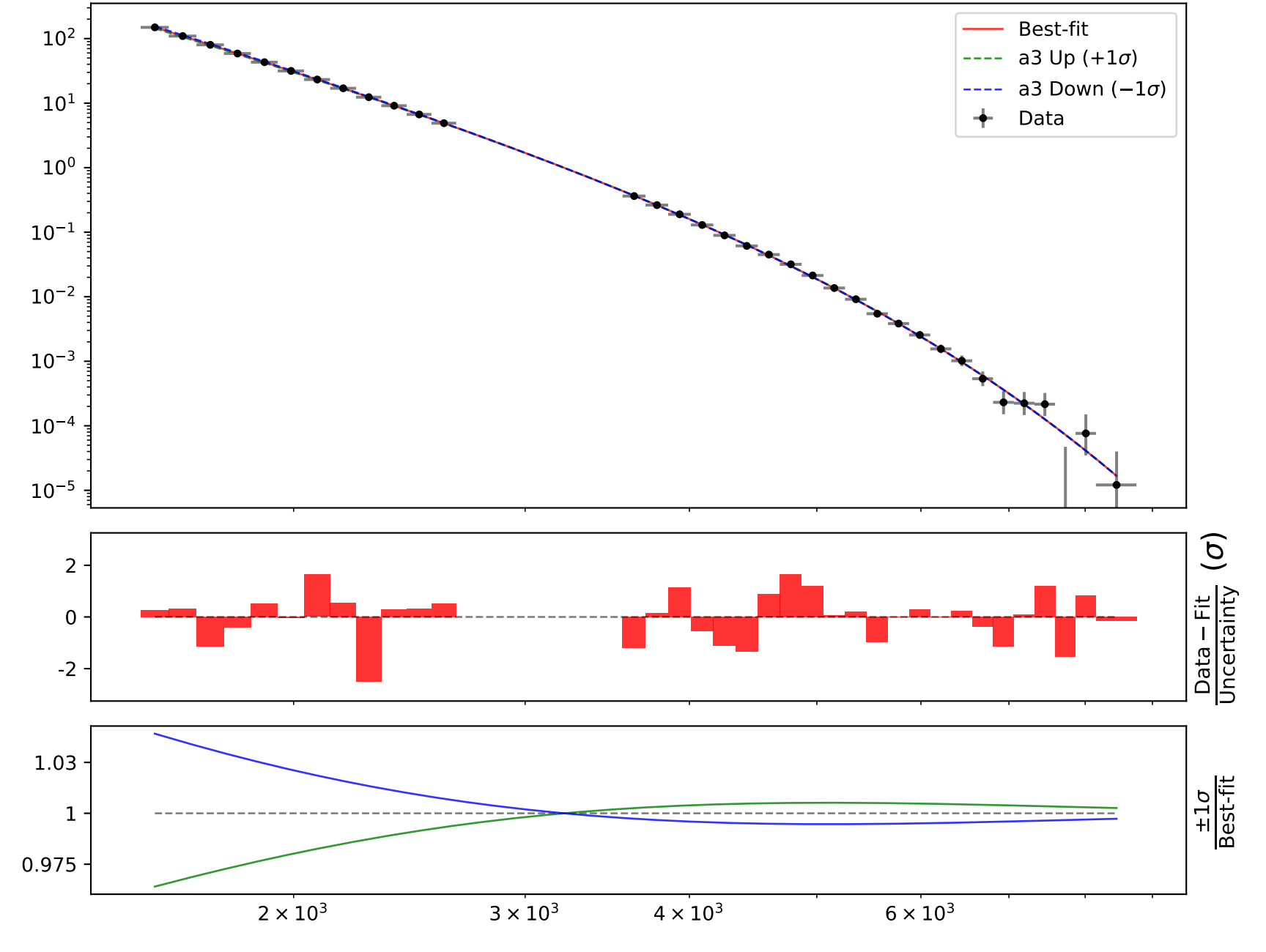
χ^2/NDF = 30.02/31, RMSE = 0.02613, R2 = 1.0

1.0*(a2**((a1 + a5*((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.343369^{+0.002625(0.765\%)}_{-0.002546(0.742\%)}$, $a2 = 4.98e-05$,
$a3 = 0.828413^{+0.00937(1.13\%)}_{-0.009539(1.15\%)}$, $a4 = 1.70294^{+0.04488(2.64\%)}_{-0.04453(2.61\%)}$,
$a5 = 1.43926^{+0.01022(0.71\%)}_{-0.01054(0.732\%)}$

Candidate #10

χ^2/NDF = 30.02/31, RMSE = 0.02613, R2 = 1.0

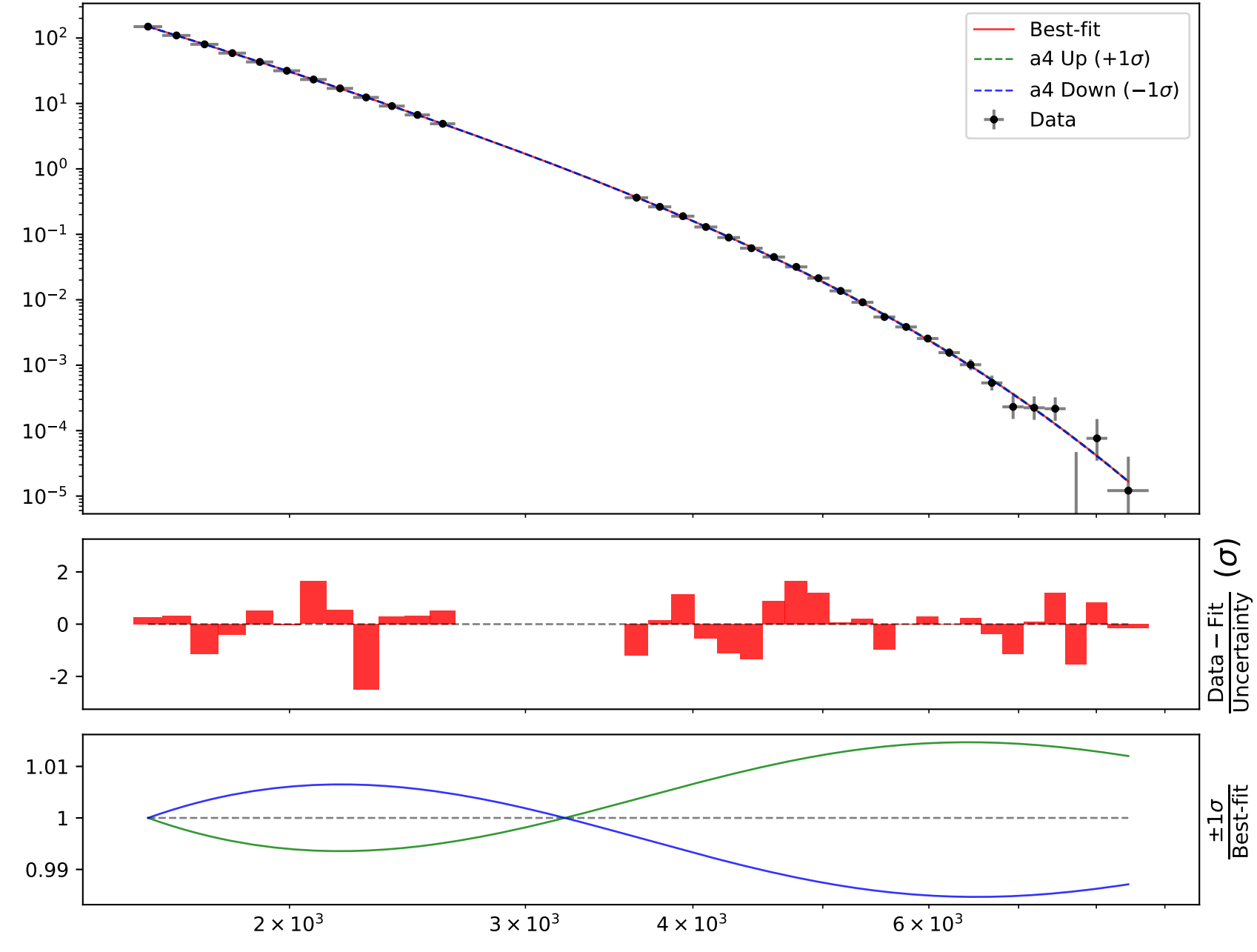


1.0*(a2**((a1 + a5*((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.343369^{+0.002625(0.765\%)}_{-0.002546(0.742\%)}$, $a2 = 4.98e-05$,
$a3 = 0.828413^{+0.00937(1.13\%)}_{-0.009539(1.15\%)}$, $\mathbf{a4 = 1.70294^{+0.04488(2.64\%)}_{-0.04453(2.61\%)}}$,
$a5 = 1.43926^{+0.01022(0.71\%)}_{-0.01054(0.732\%)}$

Candidate #10

χ^2/NDF = 30.02/31, RMSE = 0.02613, R2 = 1.0

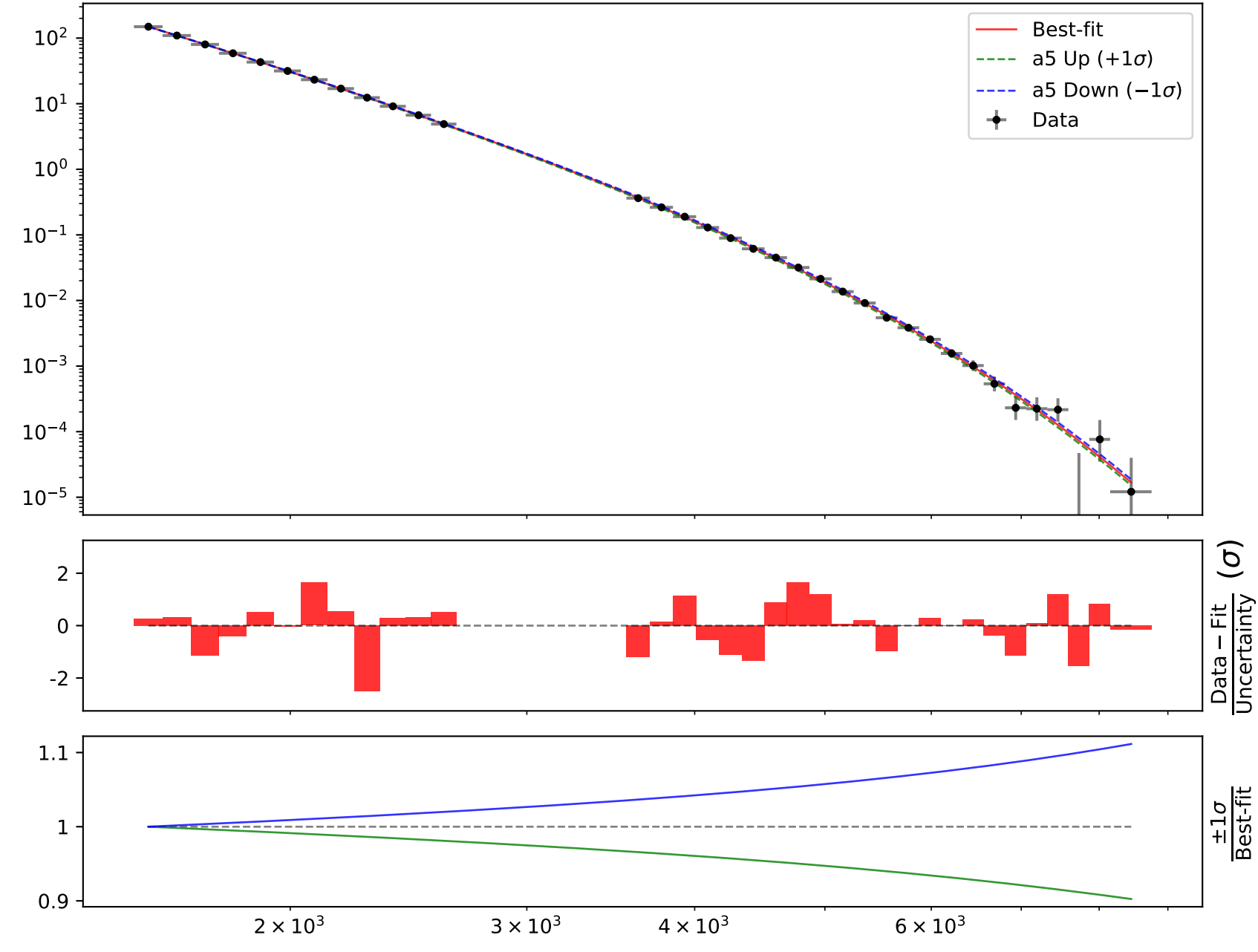


1.0*(a2**((a1 + a5*((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.343369^{+0.002625(0.765\%)}_{-0.002546(0.742\%)}$, $a2 = 4.98e-05$,
$a3 = 0.828413^{+0.00937(1.13\%)}_{-0.009539(1.15\%)}$, $a4 = 1.70294^{+0.04488(2.64\%)}_{-0.04453(2.61\%)}$,
$a5 = 1.43926^{+0.01022(0.71\%)}_{-0.01054(0.732\%)}$

Candidate #10

χ^2/NDF = 30.02/31, RMSE = 0.02613, R2 = 1.0



Candidate function #9

1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

a1 = $-0.235202^{+0.0007188(0.306\%)}_{-0.0007141(0.304\%)}$, $a2 = 4.92e-05$,
$a3 = 0.505944^{+0.001851(0.366\%)}_{-0.001858(0.367\%)}$, $a4 = 0.675223^{+0.01823(2.7\%)}_{-0.01824(2.7\%)}$

Candidate #9

χ^2/NDF = 767.3/32, RMSE = 0.2407, R2 = 0.9999

1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.235202^{+0.0007188(0.306\%)}_{-0.0007141(0.304\%)}$, $a2 = 4.92e-05$,

$a3 = 0.505944^{+0.001851(0.366\%)}_{-0.001858(0.367\%)}$, $a4 = 0.675223^{+0.01823(2.7\%)}_{-0.01824(2.7\%)}$

Candidate #9

χ^2/NDF = 767.3/32, RMSE = 0.2407, R2 = 0.9999

1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + a4*((x0 - 1568.5) * 0.000145275))))

$a1 = -0.235202^{+0.0007188(0.306\%)}_{-0.0007141(0.304\%)}$, $a2 = 4.92e-05$,
$a3 = 0.505944^{+0.001851(0.366\%)}_{-0.001858(0.367\%)}$, $\mathbf{a4 = 0.675223^{+0.01823(2.7\%)}_{-0.01824(2.7\%)}}$

Candidate #9

χ^2/NDF = 767.3/32, RMSE = 0.2407, R2 = 0.9999

Candidate function #8

1.0*(a2**(a1 + ((x0 - 1568.5) * 0.000145275) + ((x0 - 1568.5) * 0.000145275)/(a3 + ((x0 - 1568.5) * 0.000145275))))

a1 = $-0.571057^{+0.002964(0.519\%)}_{-0.00293(0.513\%)}$, a2 = $0.00015696^{+6.991e-06(4.45\%)}_{-6.84e-06(4.36\%)}$,

a3 = $0.471325^{+0.005012(1.06\%)}_{-0.004881(1.04\%)}$

Candidate #8

χ^2/NDF = 243.3/32, RMSE = 0.1217, R2 = 1.0

1.0*(a2**(a1 + ((x0 - 1568.5) * 0.000145275) + ((x0 - 1568.5) * 0.000145275)/(a3 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -0.571057^{+0.002964(0.519\%)}_{-0.00293(0.513\%)}$, $\mathbf{a2 = 0.00015696^{+6.991e-06(4.45\%)}_{-6.84e-06(4.36\%)}}$,

$a3 = 0.471325^{+0.005012(1.06\%)}_{-0.004881(1.04\%)}$

Candidate #8

χ^2/NDF = 243.3/32, RMSE = 0.1217, R2 = 1.0

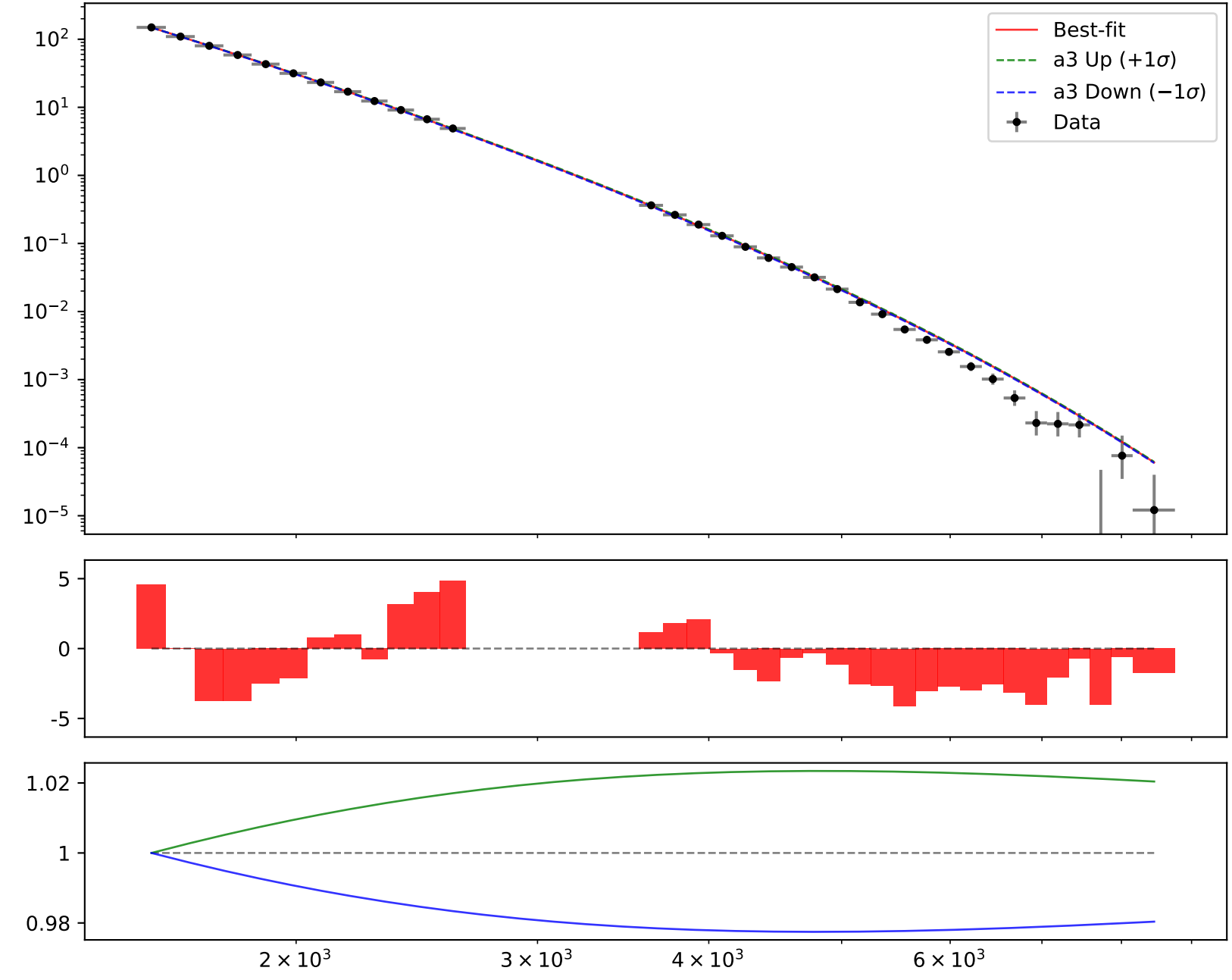
1.0*(a2**(a1 + ((x0 - 1568.5) * 0.000145275) + ((x0 - 1568.5) * 0.000145275)/(a3 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -0.571057^{+0.002964(0.519\%)}_{-0.00293(0.513\%)}$, $a2 = 0.00015696^{+6.991e-06(4.45\%)}_{-6.84e-06(4.36\%)}$,

$a3 = 0.471325^{+0.005012(1.06\%)}_{-0.004881(1.04\%)}$

Candidate #8

χ^2/NDF = 243.3/32, RMSE = 0.1217, R2 = 1.0

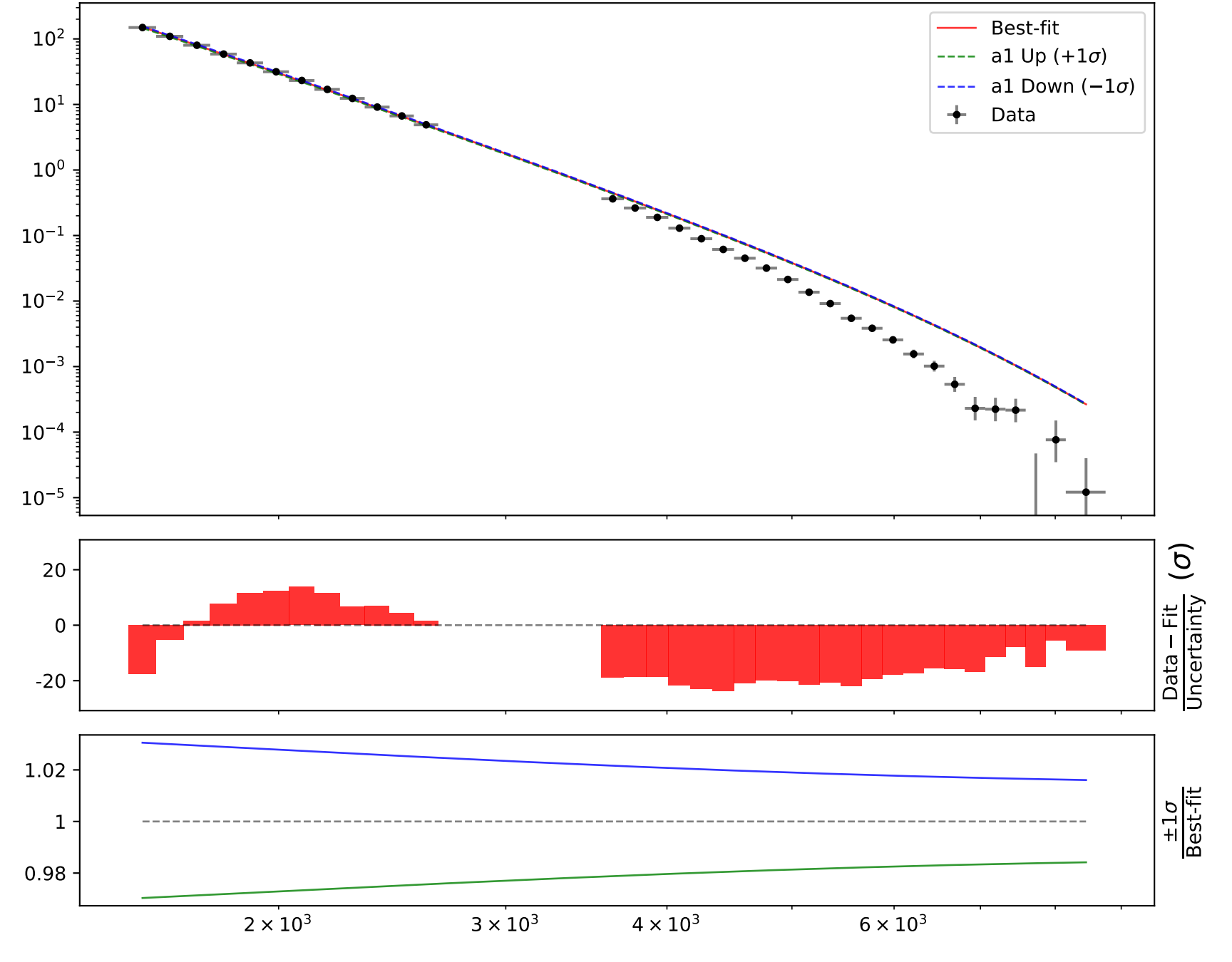


Candidate function #7

1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + ((x0 - 1568.5) * 0.000145275))))

a1 = $-0.244149^{+0.001465(0.6\%)}_{-0.001463(0.599\%)}$, $a2 = 4.98e-05$,
$a3 = 0.525436^{+0.004451(0.847\%)}_{-0.004419(0.841\%)}$

Candidate #7
χ^2/NDF = 8657.0/33, RMSE = 0.4282, R2 = 0.9998



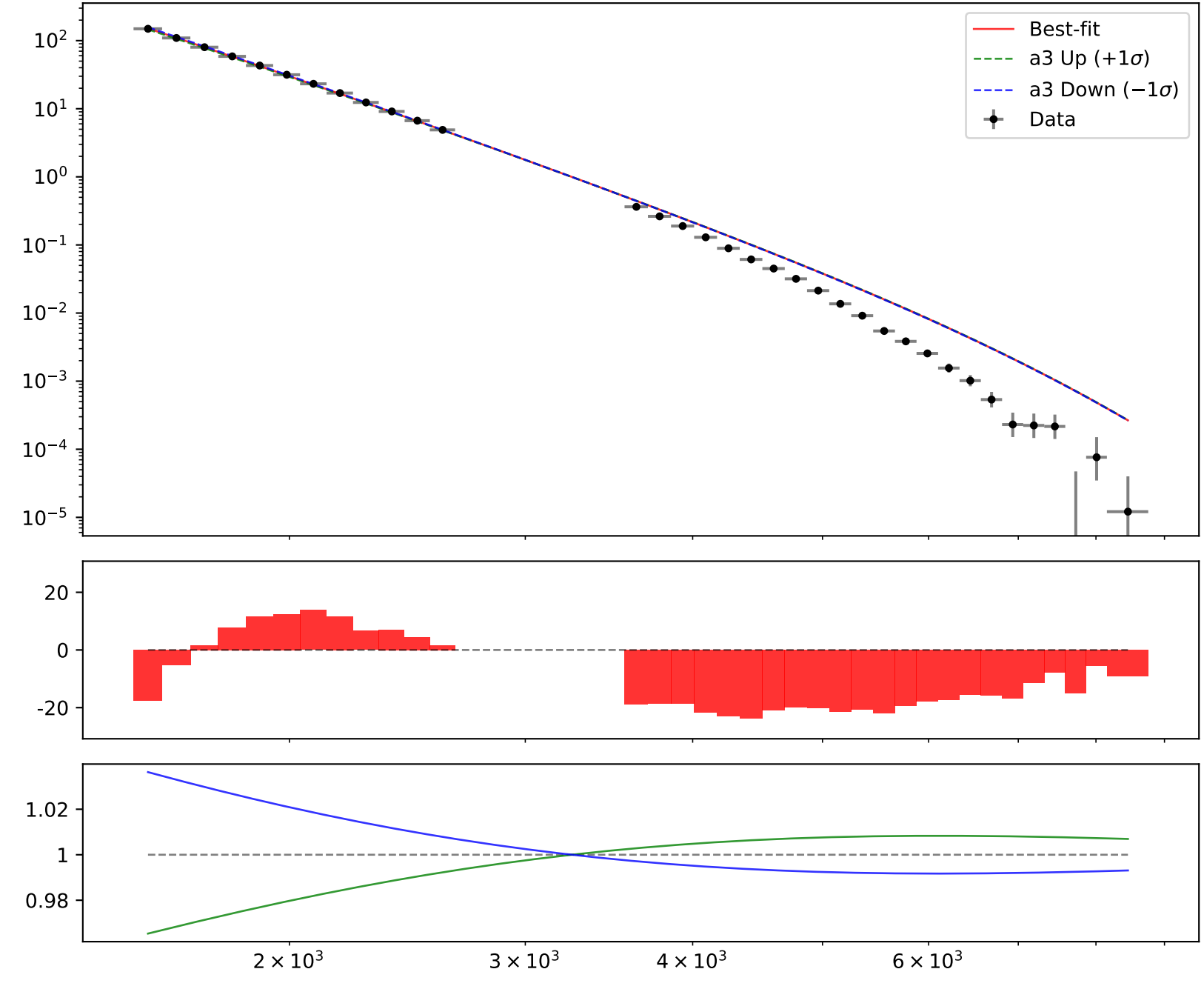
1.0*(a2**((a1 + ((x0 - 1568.5) * 0.000145275))/tanh(a3 + ((x0 - 1568.5) * 0.000145275))))

$a1 = -0.244149^{+0.001465(0.6\%)}_{-0.001463(0.599\%)}$, $a2 = 4.98e-05$,

$a3 = 0.525436^{+0.004451(0.847\%)}_{-0.004419(0.841\%)}$

Candidate #7

χ^2/NDF = 8657.0/33, RMSE = 0.4282, R2 = 0.9998



Candidate function #6

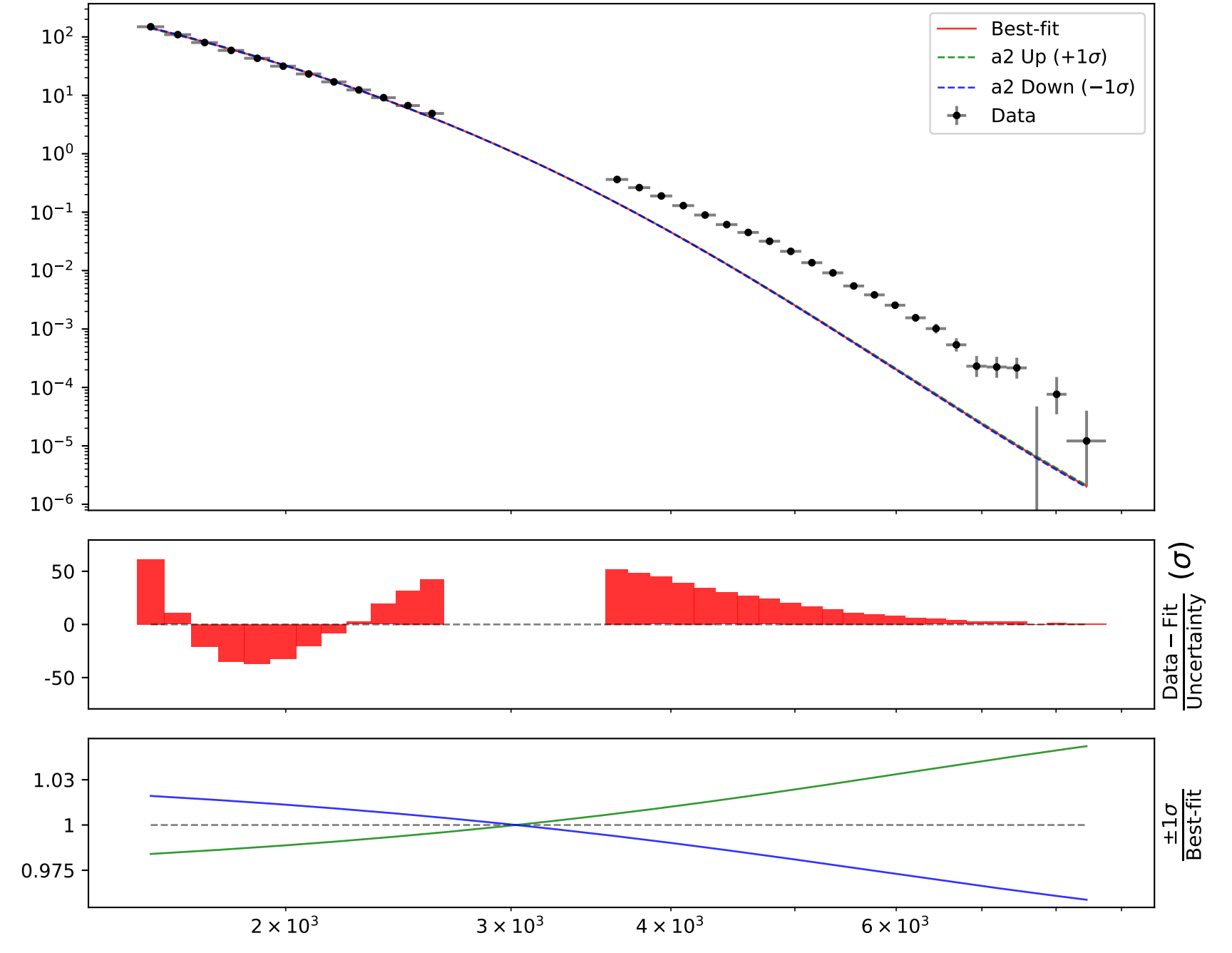
1.0*(a2**(a1 + a3*tanh(((x0 - 1568.5) * 0.000145275))))

$a1 = -0.499$, $\mathbf{a2 = 4.86016e-05^{+1.596e-06(3.28\%)}_{-1.528e-06(3.14\%)}}$,

$a3 = 2.38778^{+0.02961(1.24\%)}_{-0.02911(1.22\%)}$

Candidate #6

χ^2/NDF = 24920.0/33, RMSE = 1.442, R2 = 0.9982



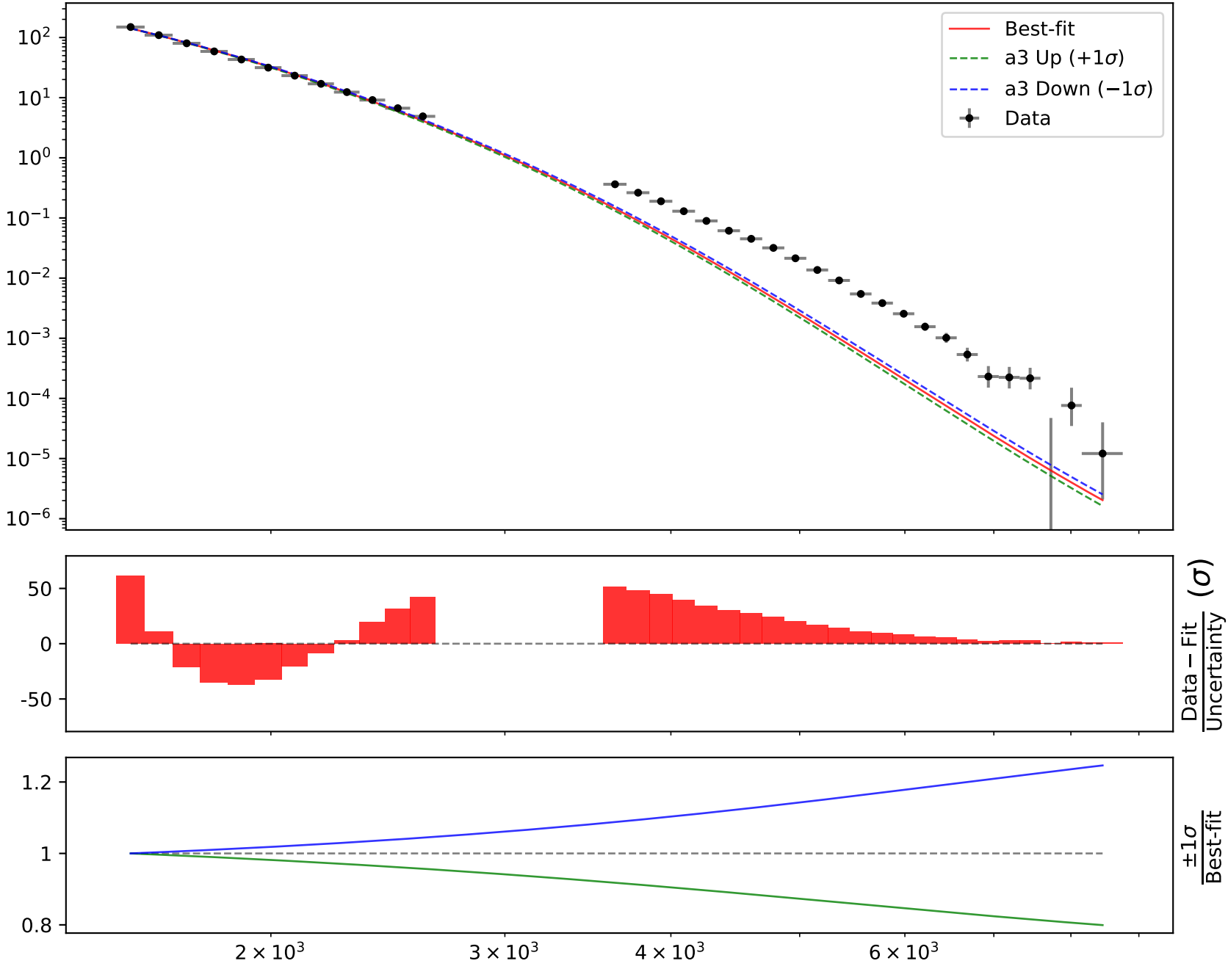
1.0*(a2**(a1 + a3*tanh(((x0 - 1568.5) * 0.000145275))))

$a1 = -0.499,\ a2 = 4.86016e-05^{+1.596e-06(3.28\%)}_{-1.528e-06(3.14\%)},$

a3 = 2.38778$^{+0.02961(1.24\%)}_{-0.02911(1.22\%)}$

Candidate #6

χ^2/NDF = 24920.0/33, RMSE = 1.442, R2 = 0.9982



Candidate function #5

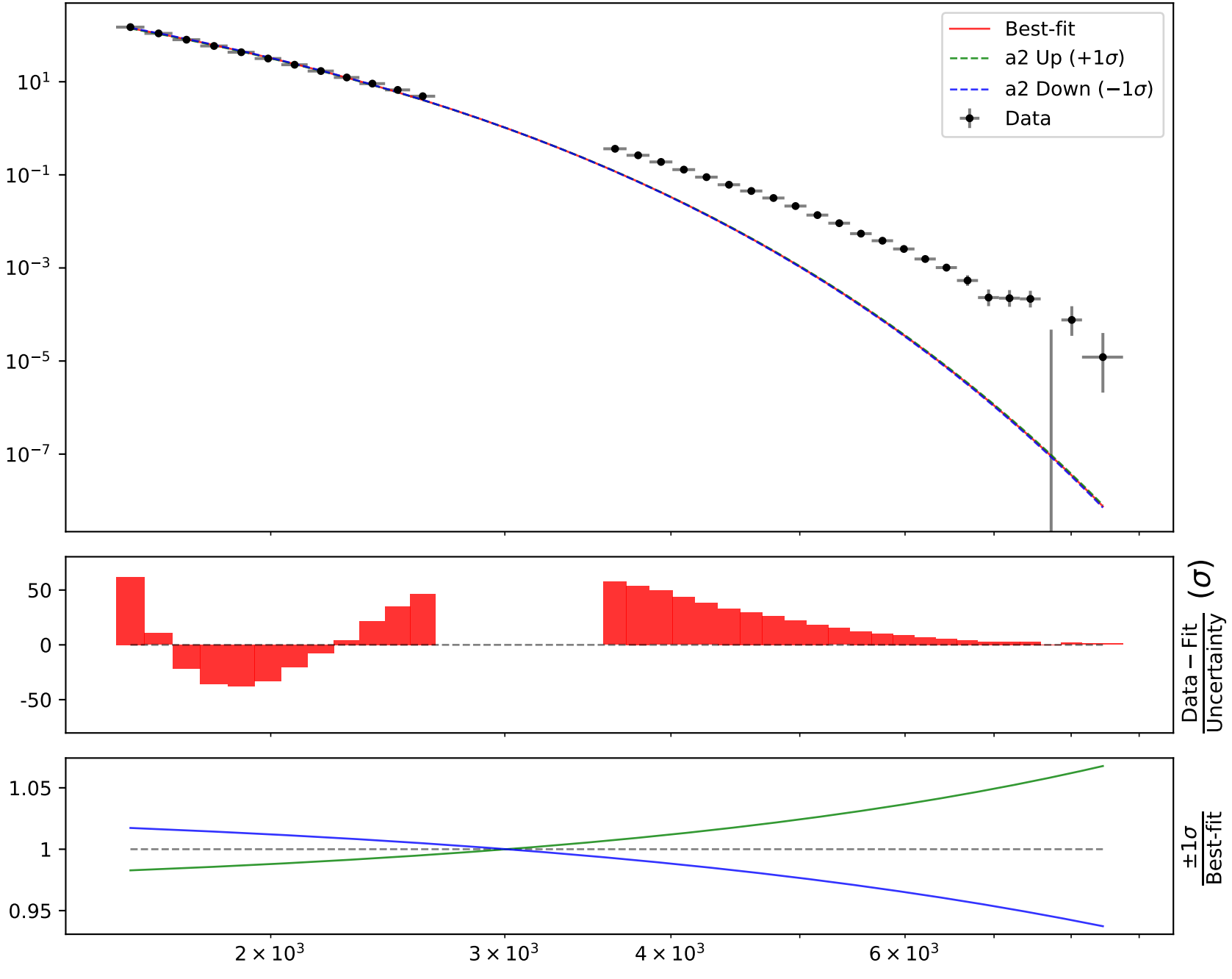
1.0*(a2**(a1 + a3*((x0 - 1568.5) * 0.000145275)))

$a1 = -0.499$, $\mathbf{a2 = 4.86597e-05^{+1.723e-06(3.54\%)}_{-1.645e-06(3.38\%)}}$,

$a3 = 2.38223^{+0.032(1.34\%)}_{-0.03144(1.32\%)}$

Candidate #5

χ^2/NDF = 28850.0/33, RMSE = 1.466, R2 = 0.9981



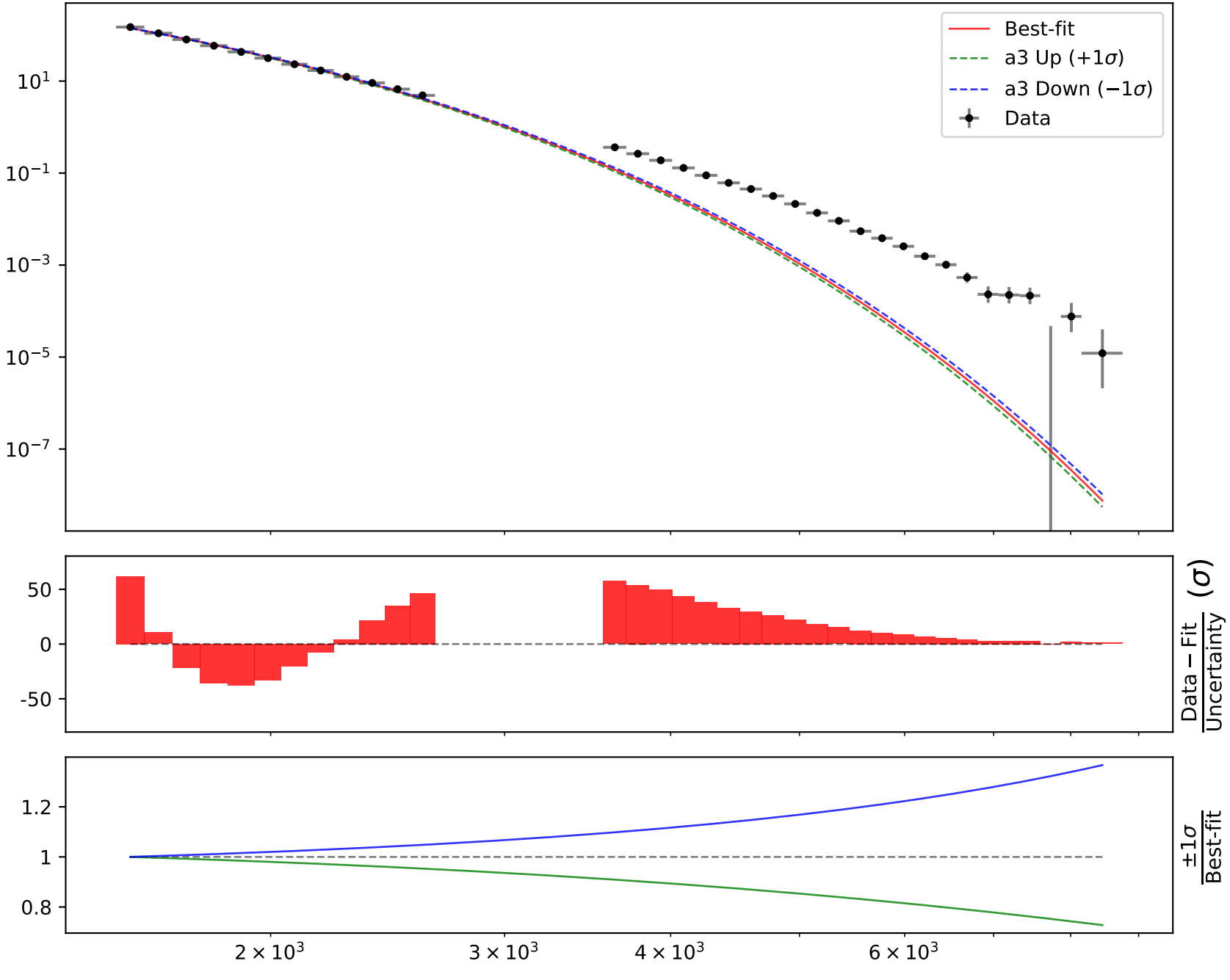
1.0*(a2**(a1 + a3*((x0 - 1568.5) * 0.000145275)))

$a1 = -0.499,\ a2 = 4.86597e-05^{+1.723e-06(3.54\%)}_{-1.645e-06(3.38\%)},$

a3 = 2.38223$^{+0.032(1.34\%)}_{-0.03144(1.32\%)}$

Candidate #5

χ^2/NDF = 28850.0/33, RMSE = 1.466, R2 = 0.9981



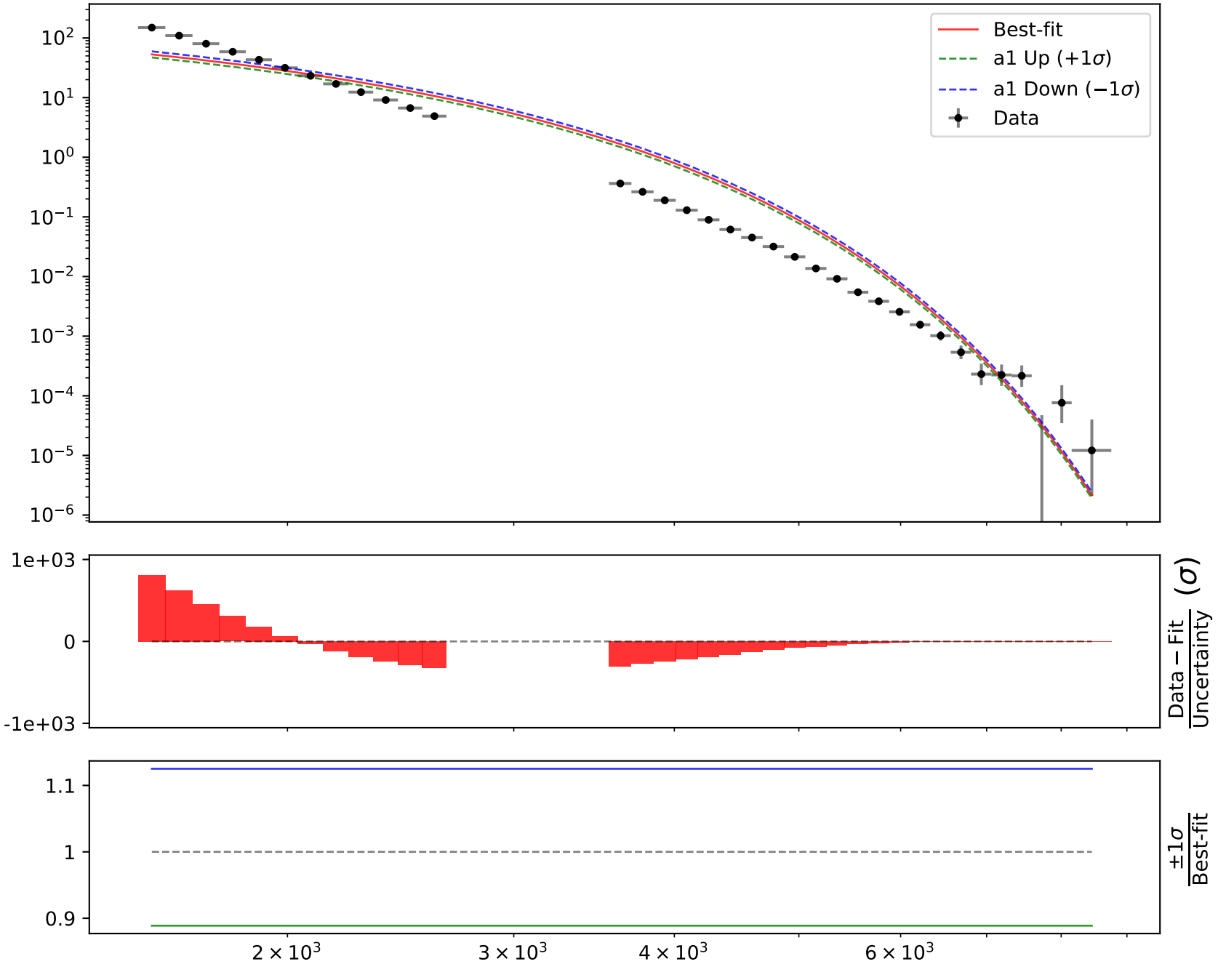
Candidate function #4

1.0*(a2**(a1 + exp(((x0 - 1568.5) * 0.000145275))))

a1 = $-1.4008^{+0.0119(0.85\%)}_{-0.0119(0.85\%)}$, $a2 = 4.98e-05$

Candidate #4

χ^2/NDF = 2048000.0/34, RMSE = 20.92, R2 = 0.6128



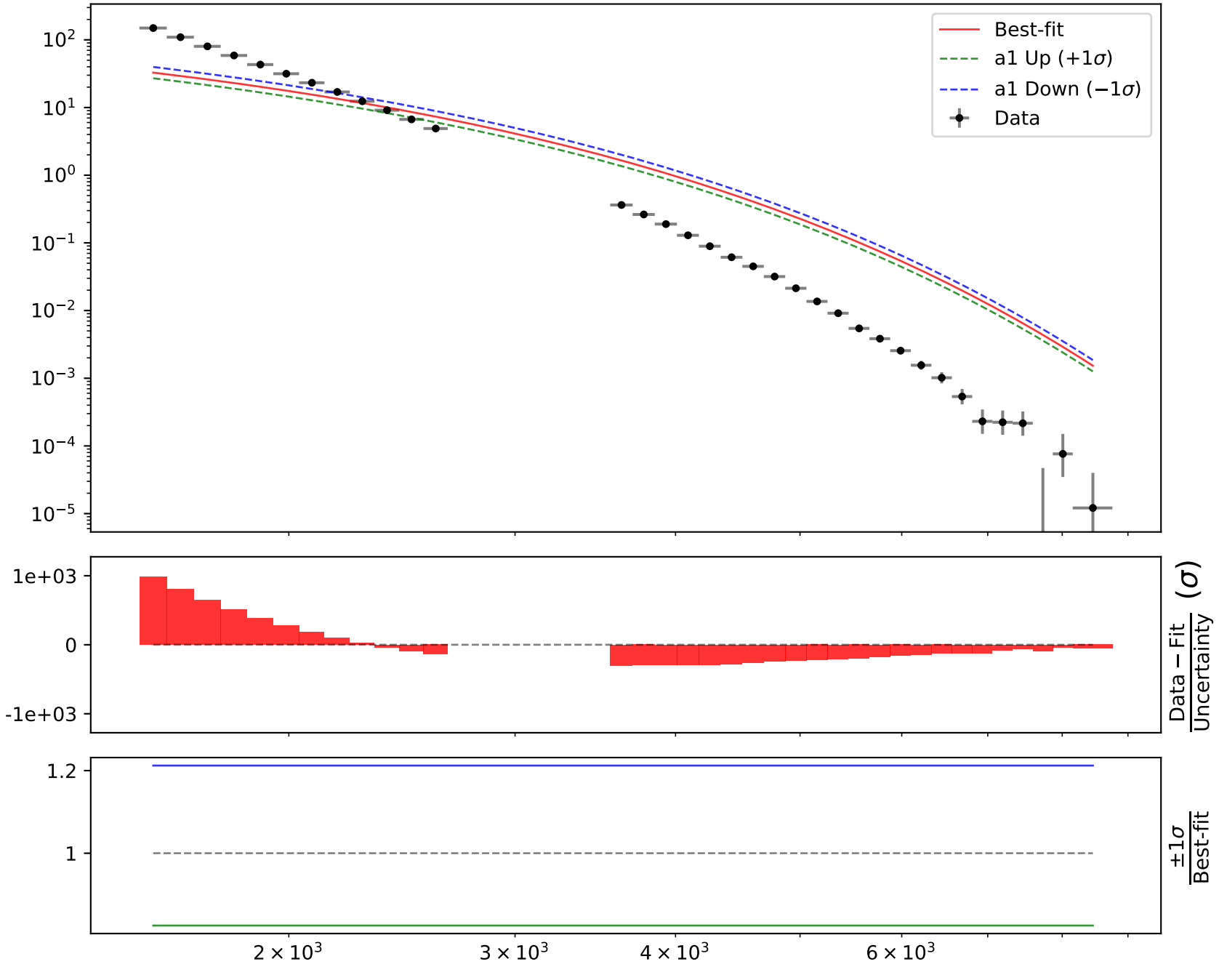
Candidate function #3

1.0*(a2**(a1 + ((x0 - 1568.5) * 0.000145275)))

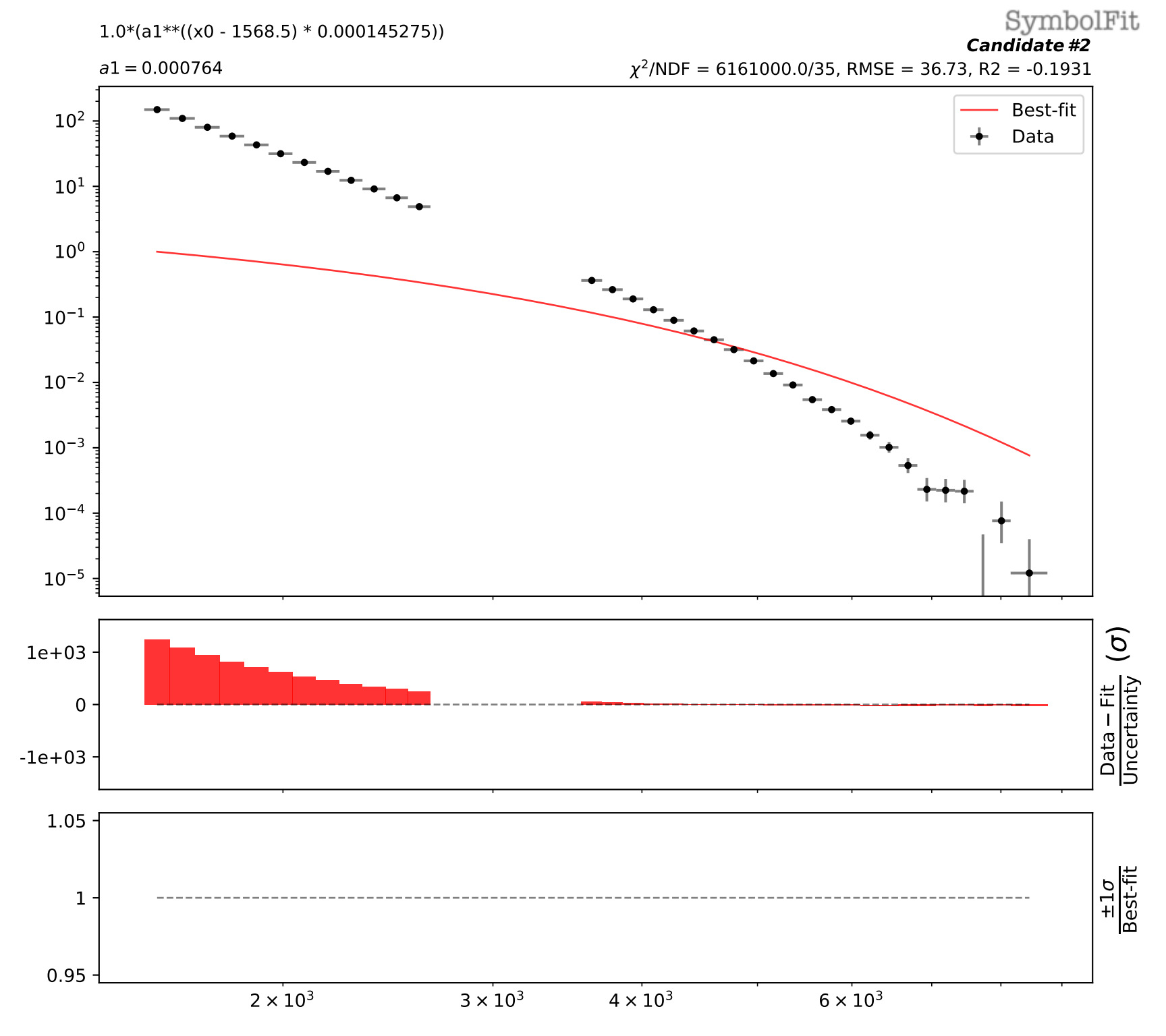
a1 = $-0.349981^{+0.0193(5.51\%)}_{-0.0193(5.51\%)}$, $a2 = 4.67e-05$

Candidate #3

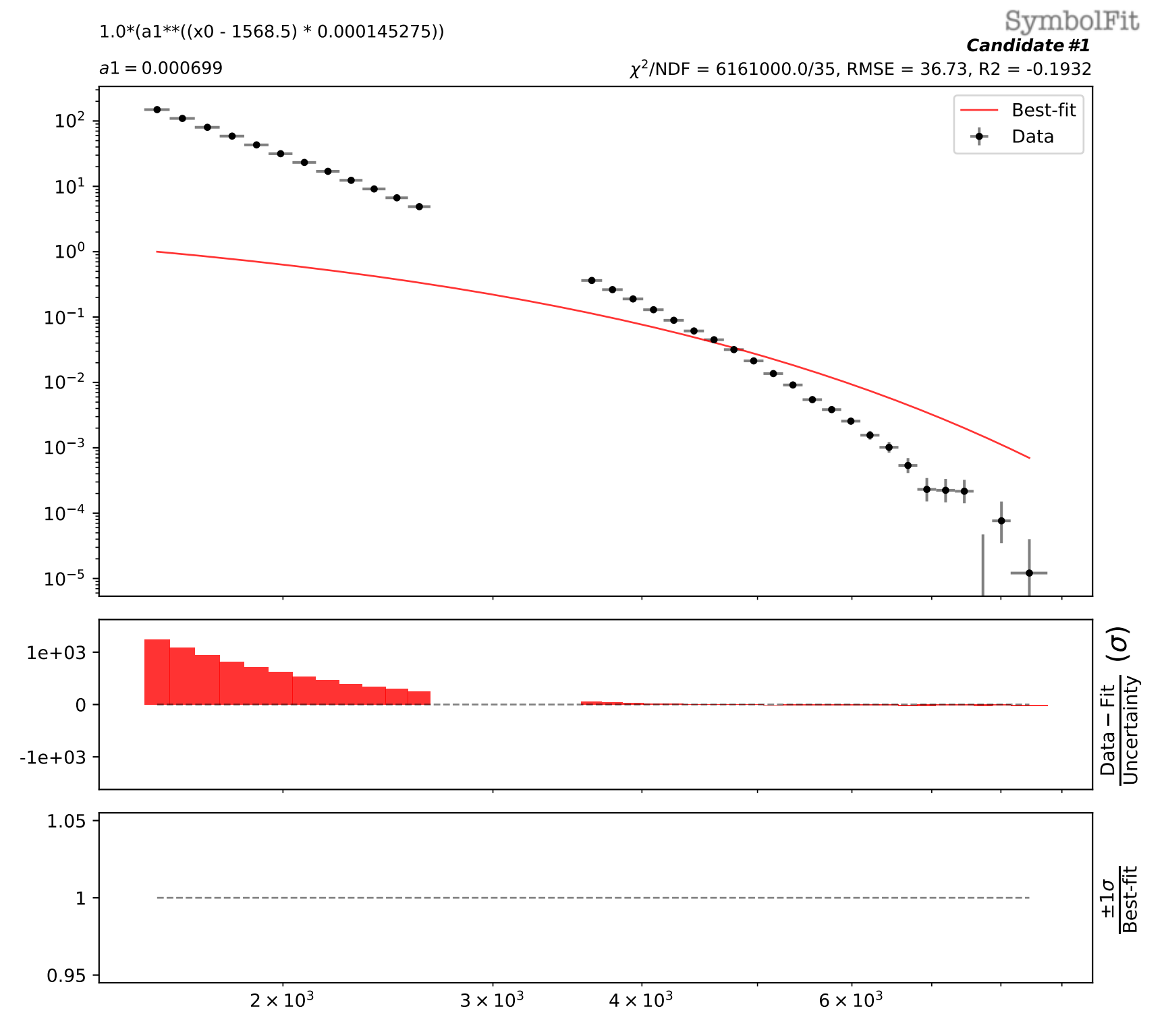
χ^2/NDF = 3548000.0/34, RMSE = 26.72, R2 = 0.3682



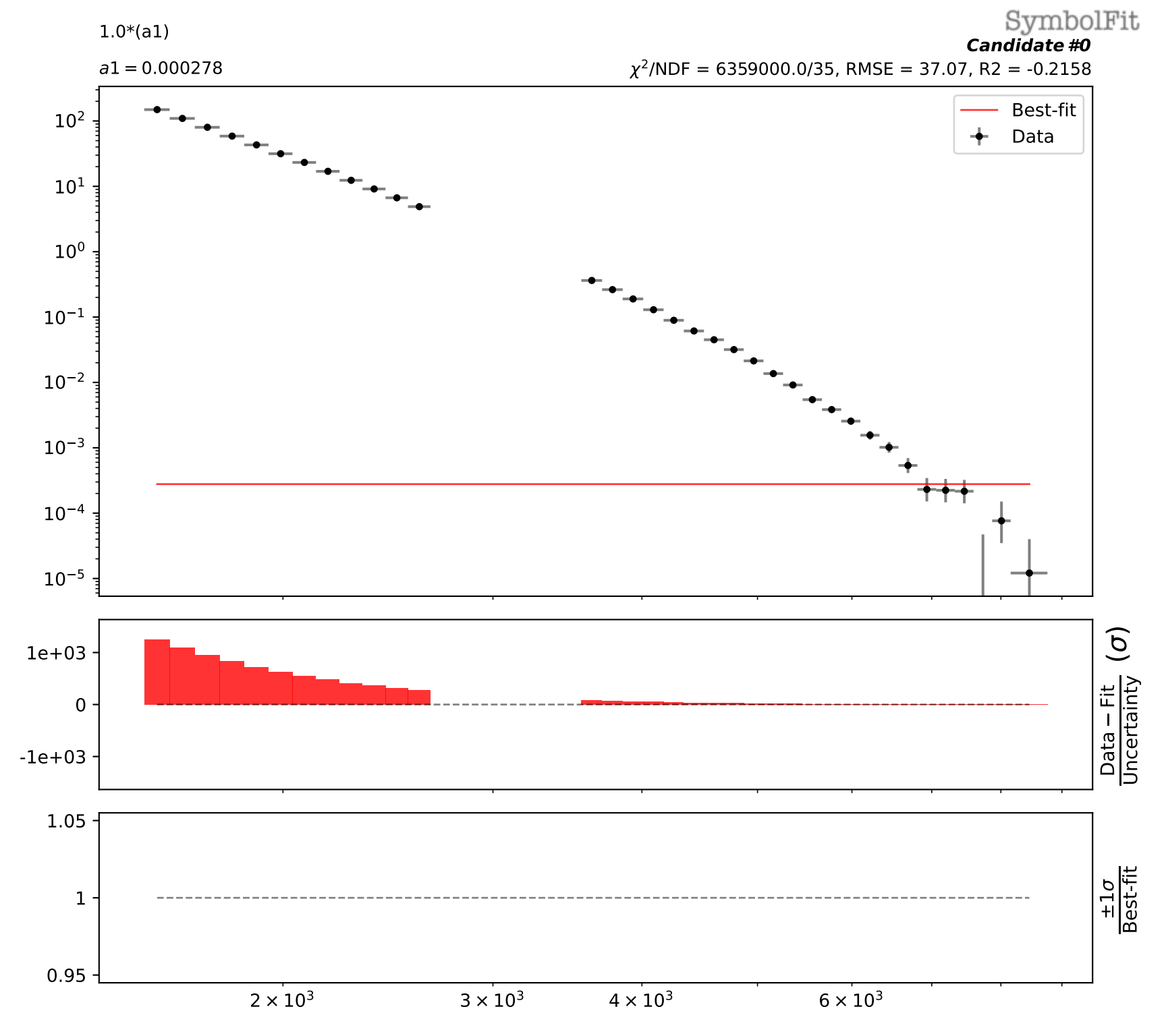
Candidate function #2


1.0*(a1**((x0 - 1568.5) * 0.000145275))
SymbolFit
Candidate #2
a1 = 0.000764
χ²/NDF = 6161000.0/35, RMSE = 36.73, R2 = -0.1931
Best-fit
Data
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴
10⁻⁵
1e+03
0
-1e+03
Data − Fit / Uncertainty (σ)
1.05
1
0.95
±1σ / Best-fit
2 × 10³
3 × 10³
4 × 10³
6 × 10³

Candidate function #1


1.0*(a1**((x0 - 1568.5) * 0.000145275))
SymbolFit
Candidate #1
a1 = 0.000699
χ²/NDF = 6161000.0/35, RMSE = 36.73, R2 = -0.1932
Best-fit
Data
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴
10⁻⁵
1e+03
0
-1e+03
Data − Fit / Uncertainty (σ)
1.05
1
0.95
±1σ / Best-fit
2 × 10³
3 × 10³
4 × 10³
6 × 10³

Candidate function #0


SymbolFit
1.0*(a1)
Candidate #0
a1 = 0.000278
χ²/NDF = 6359000.0/35, RMSE = 37.07, R2 = -0.2158
Best-fit
Data
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴
10⁻⁵
1e+03
0
-1e+03
Data − Fit / Uncertainty (σ)
1.05
1
0.95
±1σ / Best-fit
2 × 10³
3 × 10³
4 × 10³
6 × 10³