

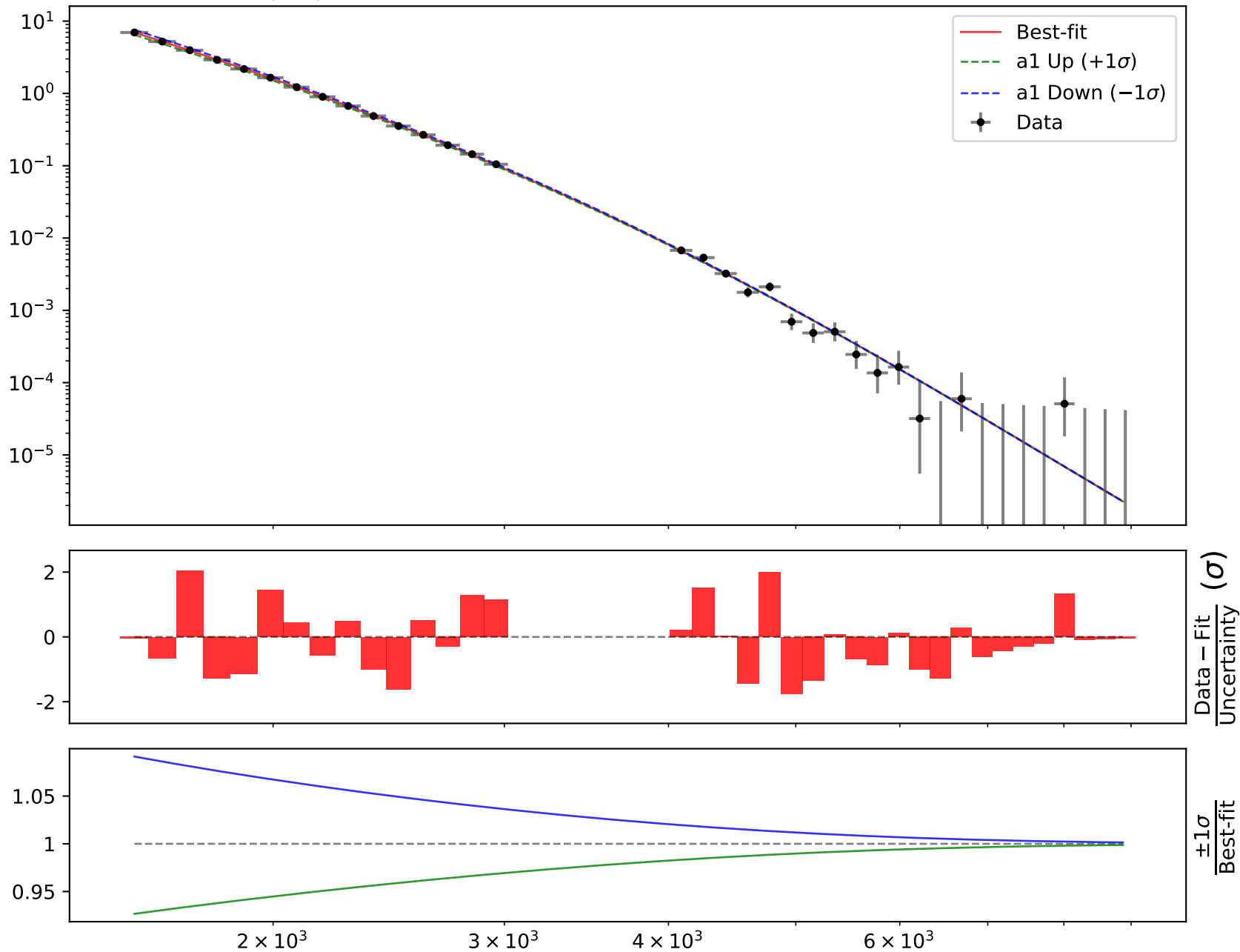
Candidate function #14

$$1.0 * ((a2 * \exp(((x0 - 1568.5) * 0.000136221))) * (((x0 - 1568.5) * 0.000136221) + \tanh(((x0 - 1568.5) * 0.000136221))) * \tanh(a3 + 2 * ((x0 - 1568.5) * 0.000136221))) * a1$$

$$a1 = -1.41087^{+0.05537(3.92\%)}_{-0.06356(4.5\%)}, \quad a2 = 0.000220451^{+8.7e-06(3.95\%)}_{-8.515e-06(3.86\%)}, \\ a3 = 0.258188^{+0.01695(6.57\%)}_{-0.01507(5.84\%)}$$

Candidate #14

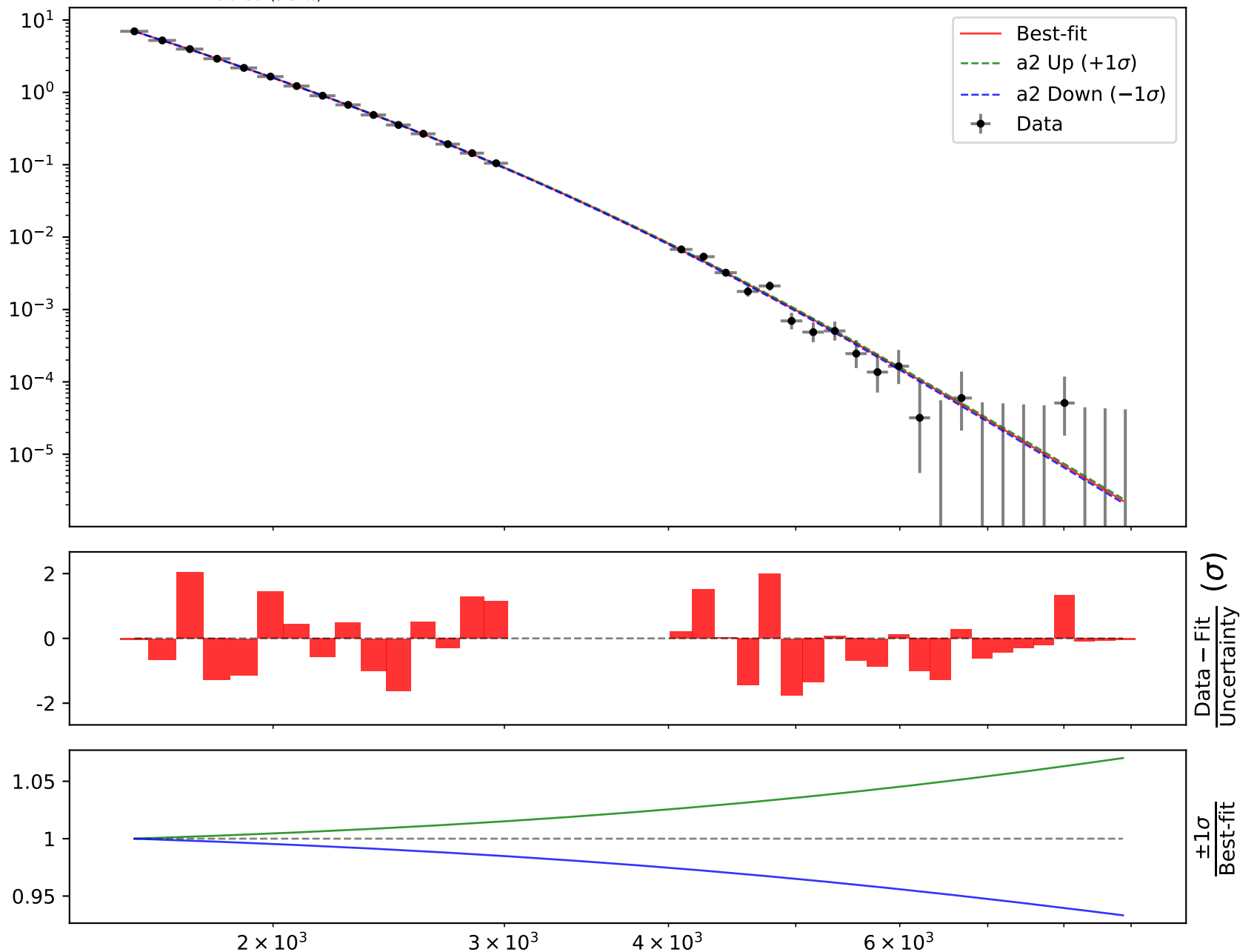
$$\chi^2/\text{NDF} = 37.37/34, \text{RMSE} = 0.008677, R2 = 1.0$$



$$1.0 * ((a2 * \exp(((x0 - 1568.5) * 0.000136221))) * (((x0 - 1568.5) * 0.000136221) + \tanh(((x0 - 1568.5) * 0.000136221))) * \tanh(a3 + 2 * ((x0 - 1568.5) * 0.000136221))) * a1$$

$$a1 = -1.41087^{+0.05537(3.92\%)}_{-0.06356(4.5\%)}, \quad a2 = 0.000220451^{+8.7e-06(3.95\%)}_{-8.515e-06(3.86\%)},$$

$$a3 = 0.258188^{+0.01695(6.57\%)}_{-0.01507(5.84\%)}$$

Candidate #14 $\chi^2/\text{NDF} = 37.37/34$, RMSE = 0.008677, R2 = 1.0

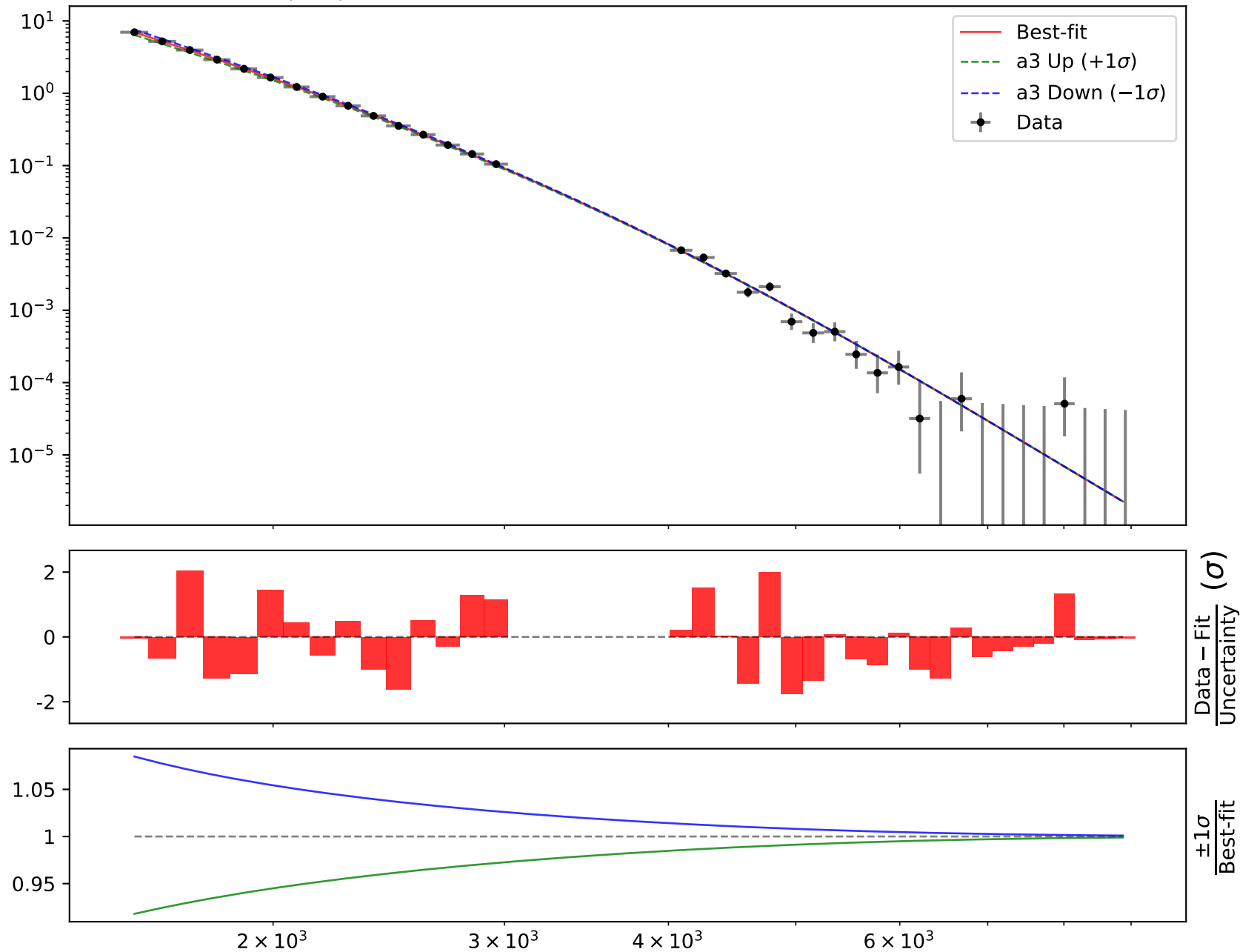
$$1.0 * ((a2 * \exp(((x0 - 1568.5) * 0.000136221))) * (((x0 - 1568.5) * 0.000136221) + \tanh(((x0 - 1568.5) * 0.000136221))) * \tanh(a3 + 2 * ((x0 - 1568.5) * 0.000136221))) * a1$$

$$a1 = -1.41087^{+0.05537(3.92\%)}_{-0.06356(4.5\%)}, \quad a2 = 0.000220451^{+8.7e-06(3.95\%)}_{-8.515e-06(3.86\%)},$$

$$a3 = 0.258188^{+0.01695(6.57\%)}_{-0.01507(5.84\%)}$$

Candidate #14

$$\chi^2/\text{NDF} = 37.37/34, \text{RMSE} = 0.008677, R^2 = 1.0$$

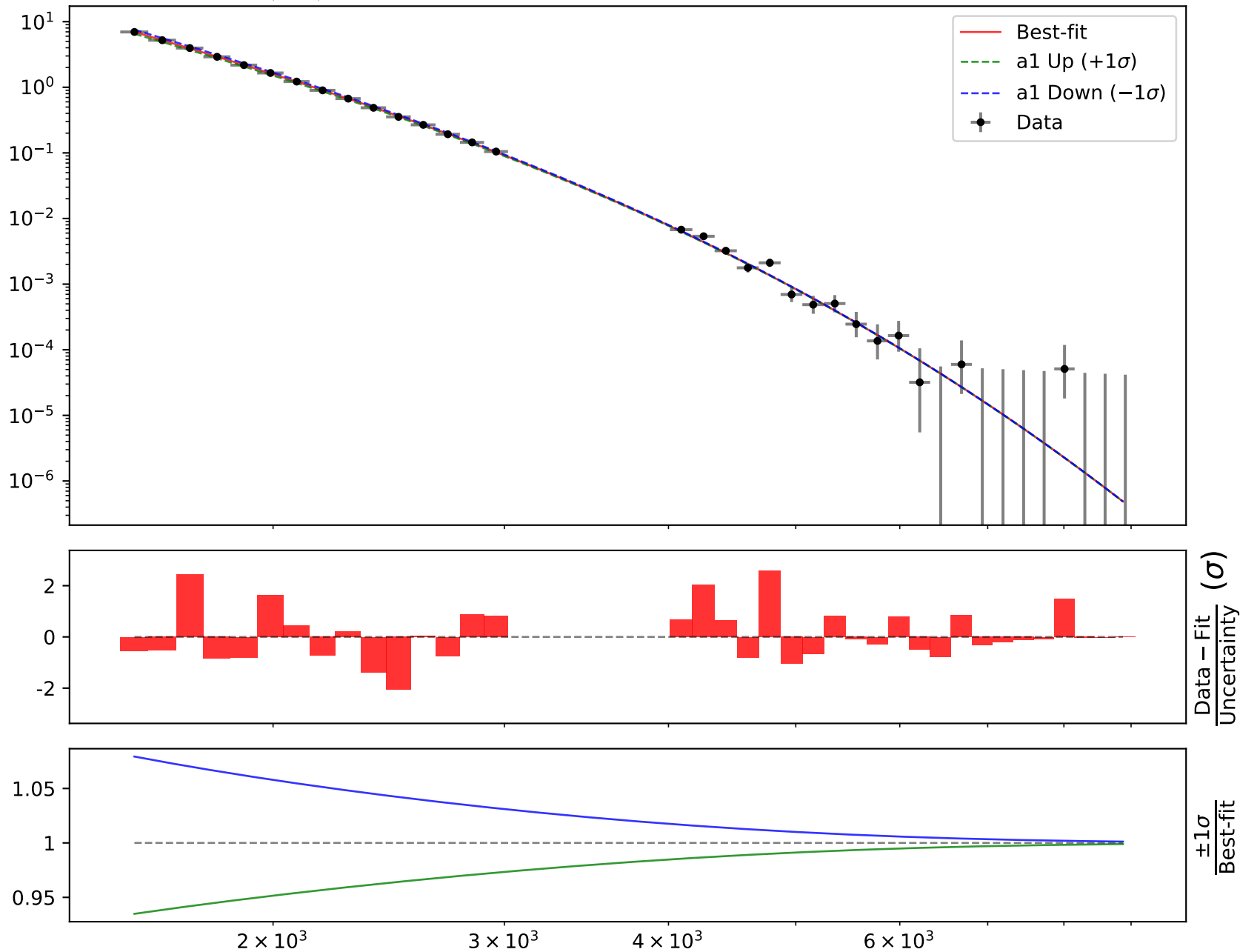


Candidate function #13

$$1.0*((a2*\exp(((x0 - 1568.5) * 0.000136221))))*(2*((x0 - 1568.5) * 0.000136221))*\tanh(a3 + 2*((x0 - 1568.5) * 0.000136221))*a1)$$

$$a1 = -1.30843^{+0.04533(3.46\%)}_{-0.05139(3.93\%)}, \quad a2 = 0.000244868^{+9.85e-06(4.02\%)}_{-9.664e-06(3.95\%)}, \\ a3 = 0.230478^{+0.01421(6.17\%)}_{-0.01273(5.52\%)}$$

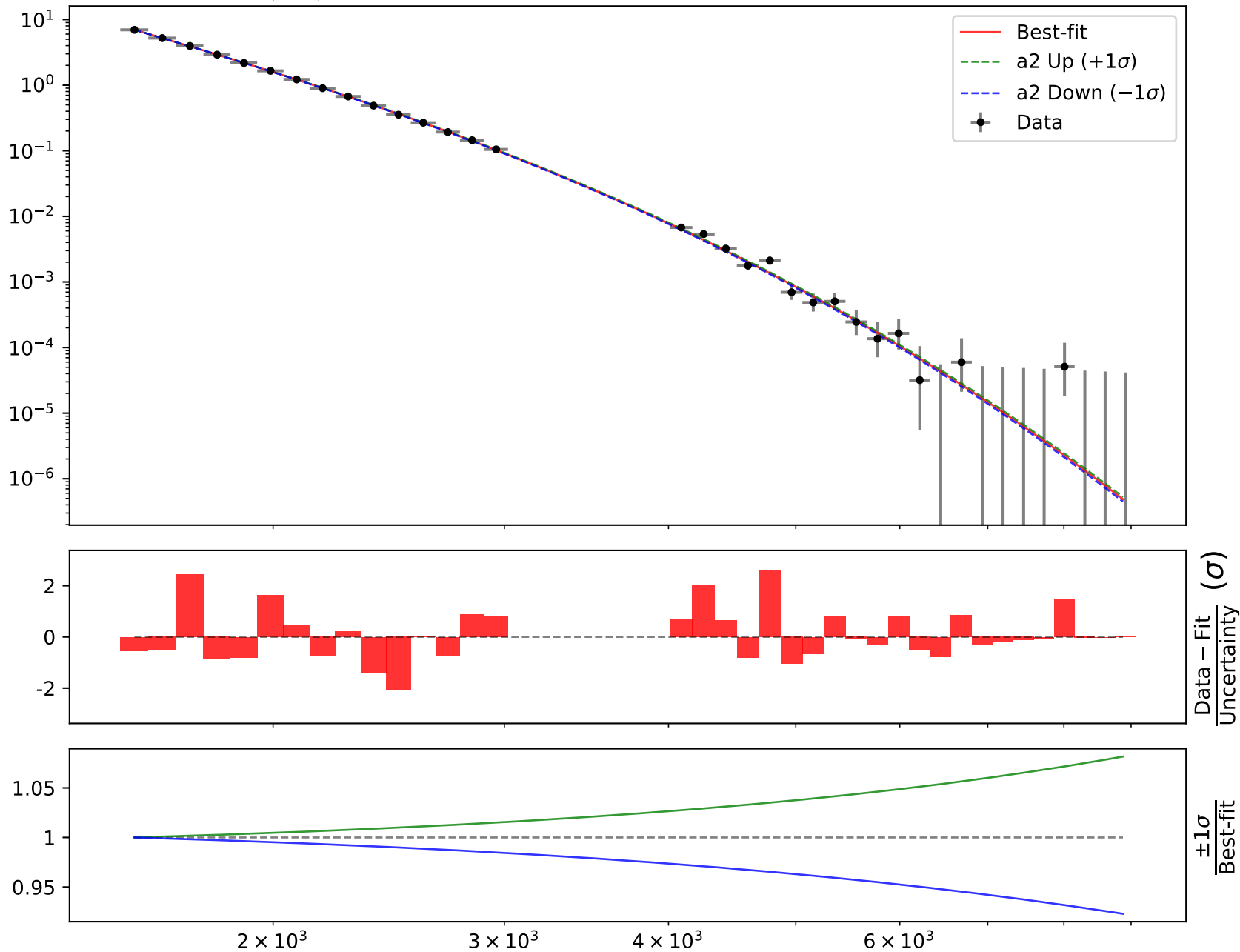
$$\chi^2/\text{NDF} = 38.86/34, \text{ RMSE} = 0.009476, \text{ R2} = 1.0$$

Candidate #13


$$1.0 * ((a2 * \exp(((x0 - 1568.5) * 0.000136221))) * (2 * ((x0 - 1568.5) * 0.000136221)) * \tanh(a3 + 2 * ((x0 - 1568.5) * 0.000136221))) * a1$$

$$a1 = -1.30843^{+0.04533(3.46\%)}_{-0.05139(3.93\%)}, \quad a2 = 0.000244868^{+9.85e-06(4.02\%)}_{-9.664e-06(3.95\%)},$$

$$a3 = 0.230478^{+0.01421(6.17\%)}_{-0.01273(5.52\%)}$$

Candidate #13 $\chi^2/\text{NDF} = 38.86/34$, RMSE = 0.009476, R2 = 1.0

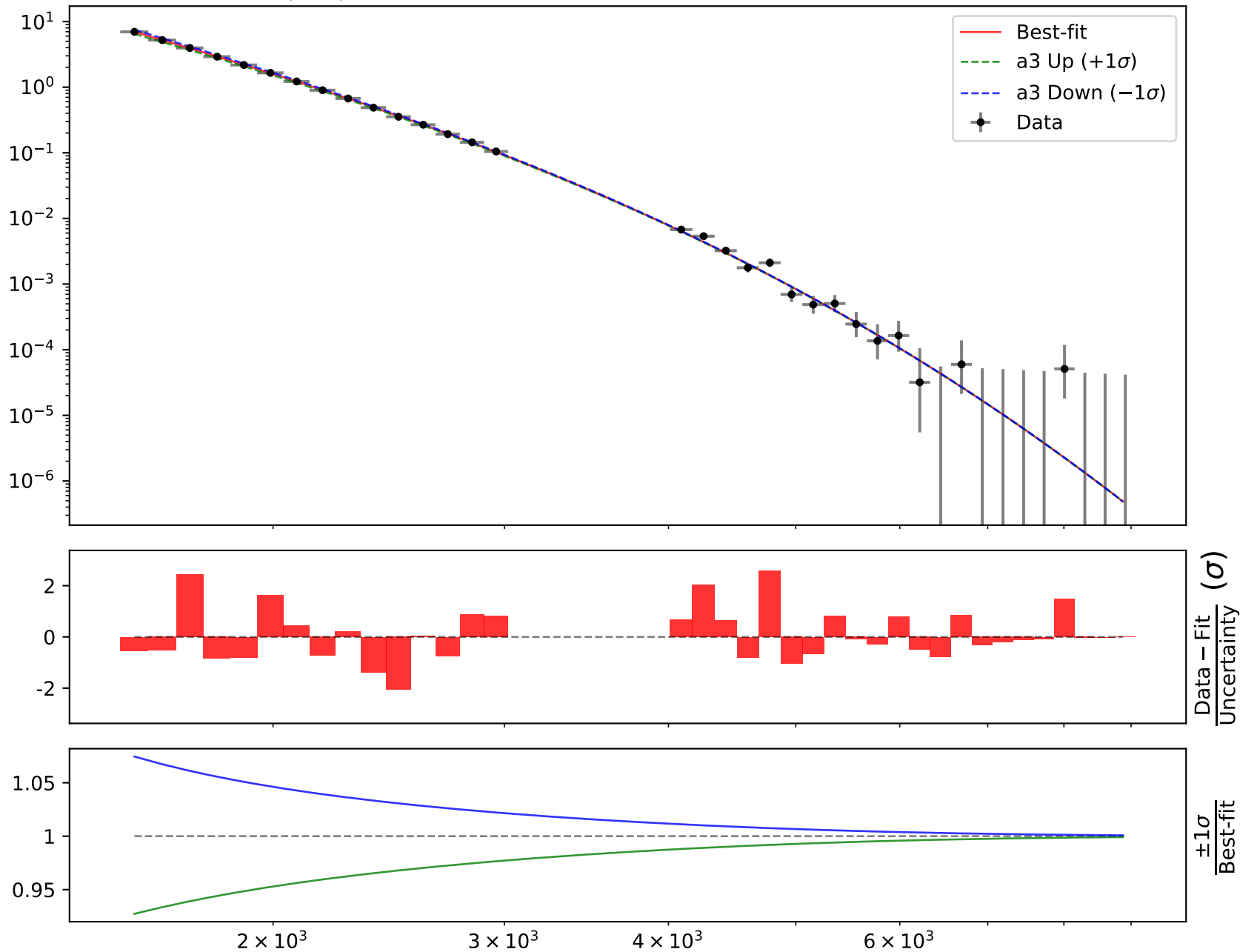
$$1.0 * ((a2 * \exp(((x0 - 1568.5) * 0.000136221))) * (2 * ((x0 - 1568.5) * 0.000136221)) * \tanh(a3 + 2 * ((x0 - 1568.5) * 0.000136221))) * a1$$

$$a1 = -1.30843^{+0.04533(3.46\%)}_{-0.05139(3.93\%)}, \quad a2 = 0.000244868^{+9.85e-06(4.02\%)}_{-9.664e-06(3.95\%)},$$

$$a3 = 0.230478^{+0.01421(6.17\%)}_{-0.01273(5.52\%)}$$

Candidate #13

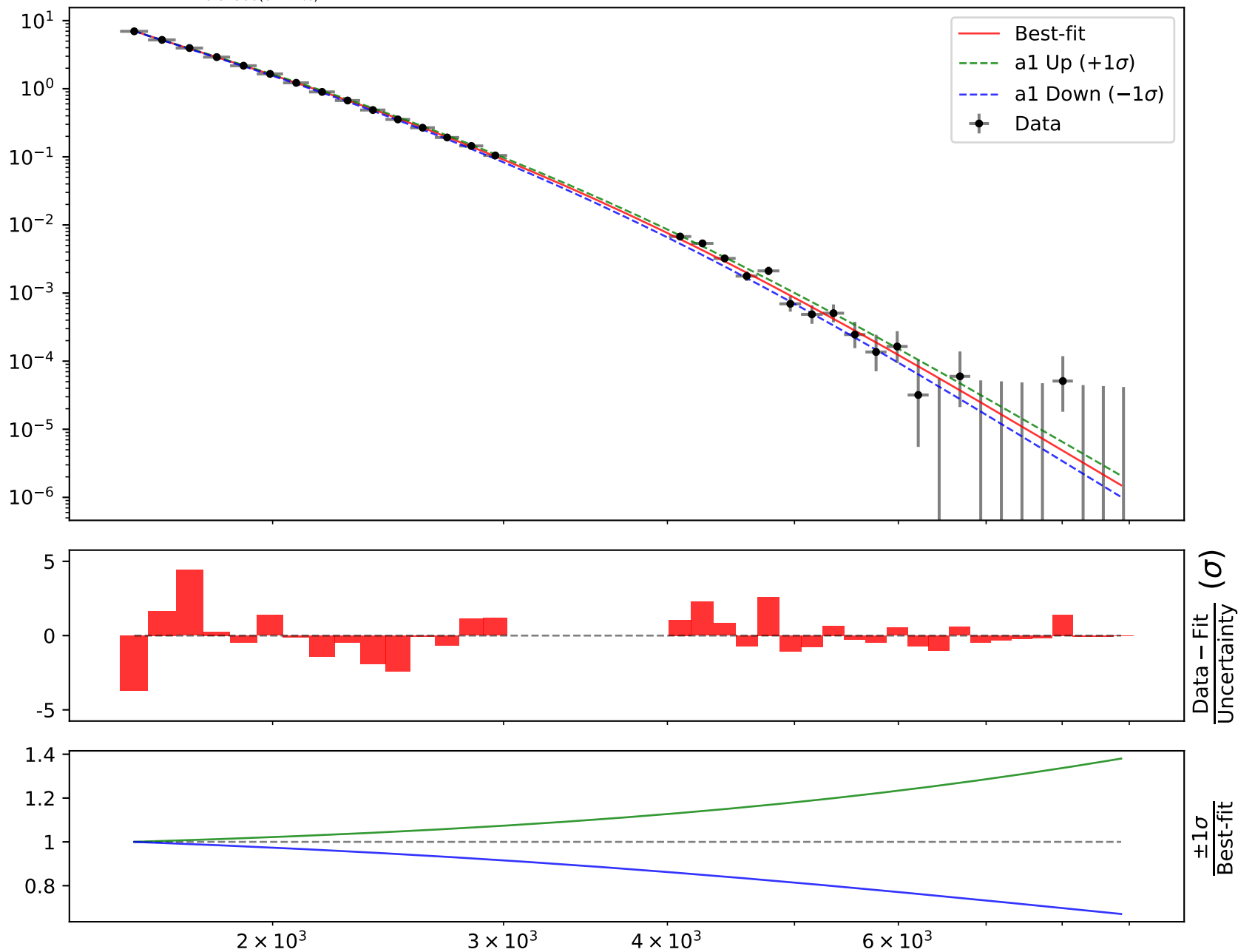
$$\chi^2/\text{NDF} = 38.86/34, \text{RMSE} = 0.009476, R2 = 1.0$$



Candidate function #12

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

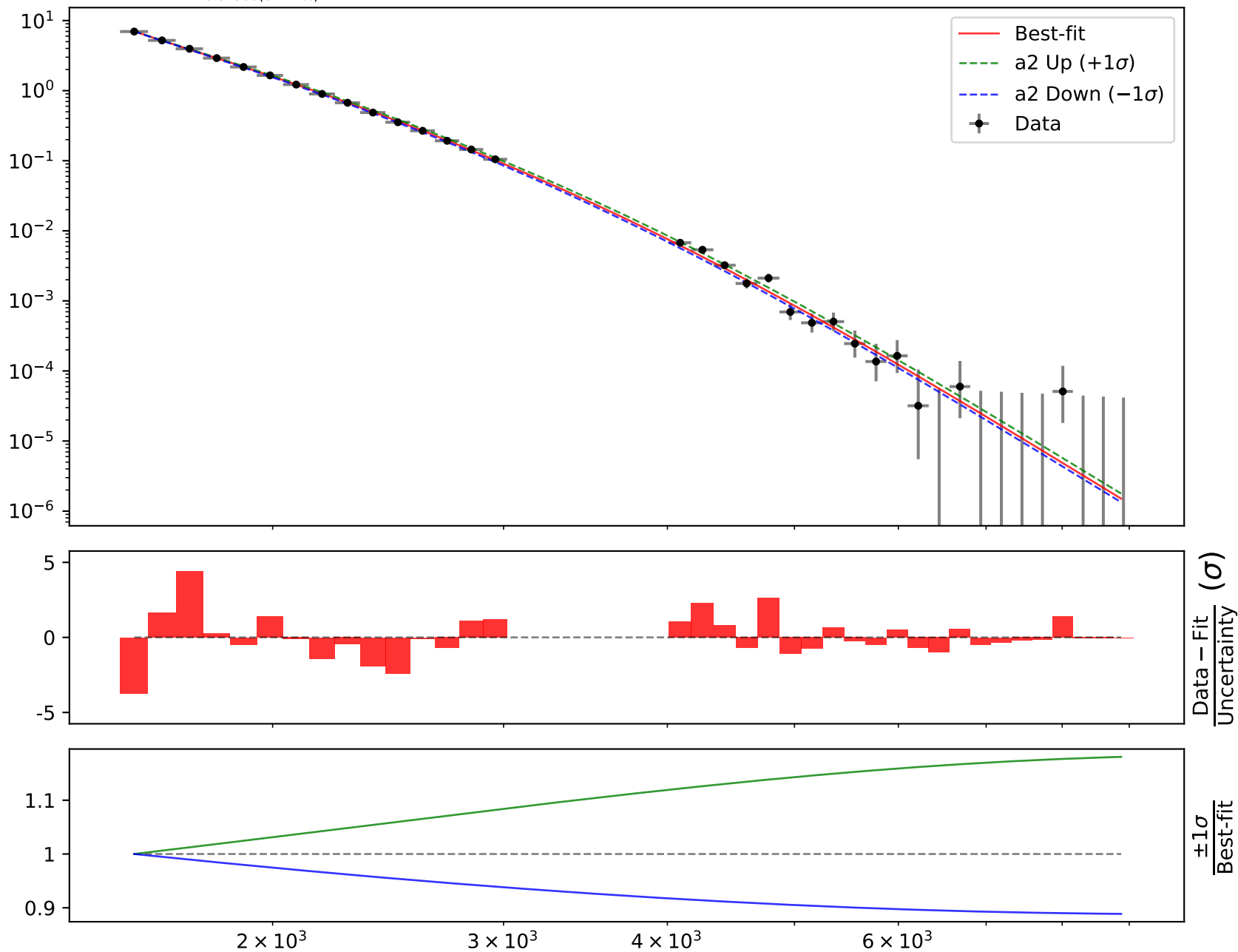
$$a1 = 0.000113257^{+2.283e-05(20.2\%)}_{-2.304e-05(20.3\%)}, \quad a2 = 0.404228^{+0.1389(34.4\%)}_{-0.09104(22.5\%)}, \\ a3 = 7.06272^{+0.02923(0.414\%)}_{-0.02906(0.411\%)}$$

Candidate #12 $\chi^2/\text{NDF} = 74.78/34$, RMSE = 0.02215, R2 = 0.9998

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

$$a1 = 0.000113257^{+2.283e-05(20.2\%)}_{-2.304e-05(20.3\%)}, \quad a2 = 0.404228^{+0.1389(34.4\%)}_{-0.09104(22.5\%)},$$

$$a3 = 7.06272^{+0.02923(0.414\%)}_{-0.02906(0.411\%)}$$

Candidate #12 $\chi^2/\text{NDF} = 74.78/34$, RMSE = 0.02215, R2 = 0.9998

$$1.0 * (a_3 * (a_1 * ((x_0 - 1568.5) * 0.000136221) * (a_2 + ((x_0 - 1568.5) * 0.000136221))) * ((x_0 - 1568.5) * 0.000136221) + \tanh(((x_0 - 1568.5) * 0.000136221)))$$

$$a_1 = 0.000113257^{+2.283e-05(20.2\%)}_{-2.304e-05(20.3\%)}, \quad a_2 = 0.404228^{+0.1389(34.4\%)}_{-0.09104(22.5\%)},$$

$$a_3 = 7.06272^{+0.02923(0.414\%)}_{-0.02906(0.411\%)}$$

Candidate #12

$$\chi^2/\text{NDF} = 74.78/34, \text{RMSE} = 0.02215, \text{R}^2 = 0.9998$$



Candidate function #11

$$1.0 * (a_2 * (a_1 * ((x_0 - 1568.5) * 0.000136221)) * (((x_0 - 1568.5) * 0.000136221) + \tanh(((x_0 - 1568.5) * 0.000136221))))$$

a1 = $6.19072\text{e} - 05$ ^{+2.765e-06(4.47%)}_{-2.661e-06(4.3%)}, **a2 = 6.99945** ^{+0.0329(0.47%)}_{-0.03285(0.469%)}

Candidate #11

$\chi^2/\text{NDF} = 129.2/35$, RMSE = 0.0176, R2 = 0.9999

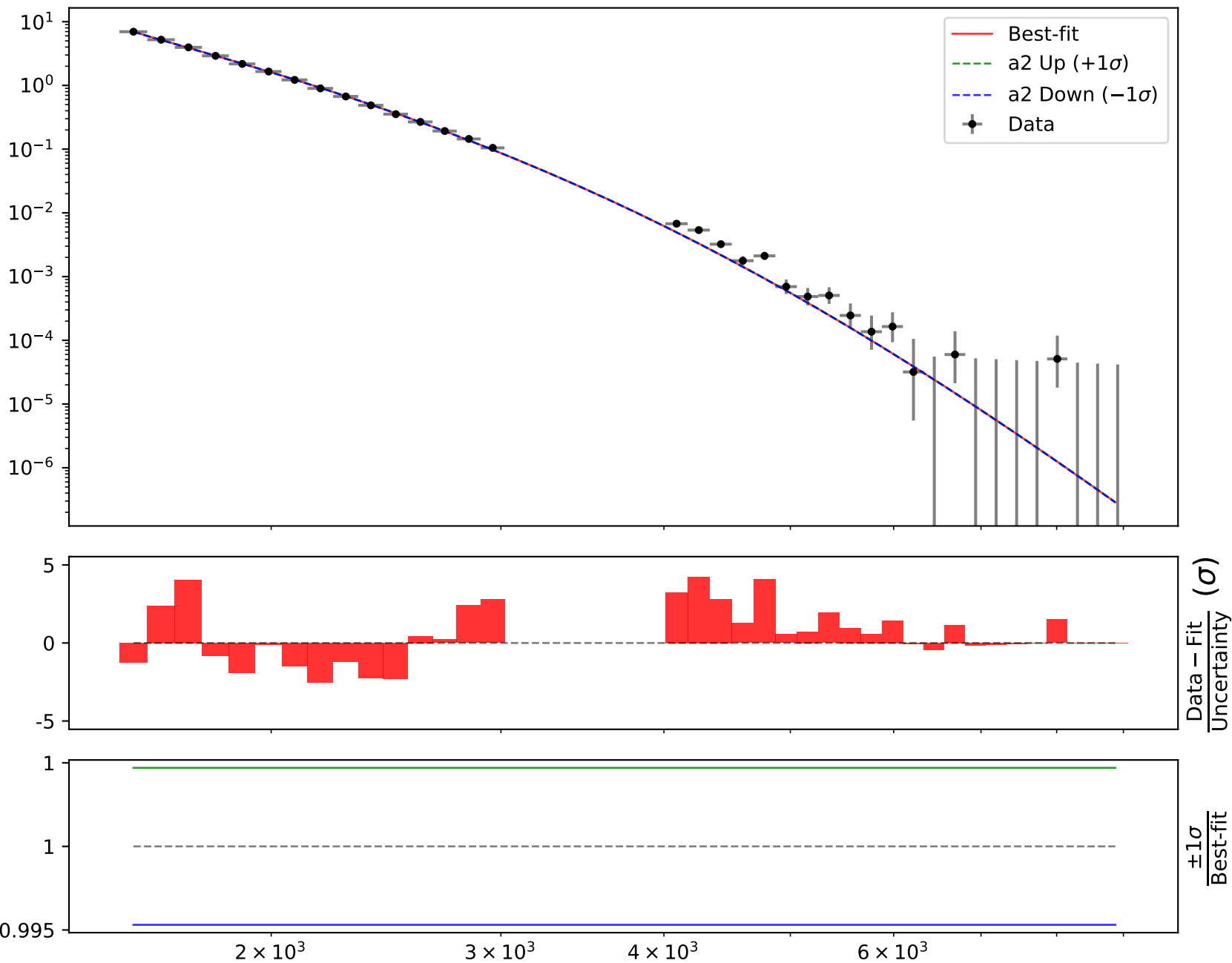


$$1.0 * (a_2 * (a_1 * ((x_0 - 1568.5) * 0.000136221)) * (((x_0 - 1568.5) * 0.000136221) + \tanh(((x_0 - 1568.5) * 0.000136221))))$$

$$a_1 = 6.19072e-05^{+2.765e-06(4.47\%)}_{-2.661e-06(4.3\%)}, \quad a_2 = 6.99945^{+0.0329(0.47\%)}_{-0.03285(0.469\%)}$$

Candidate #11

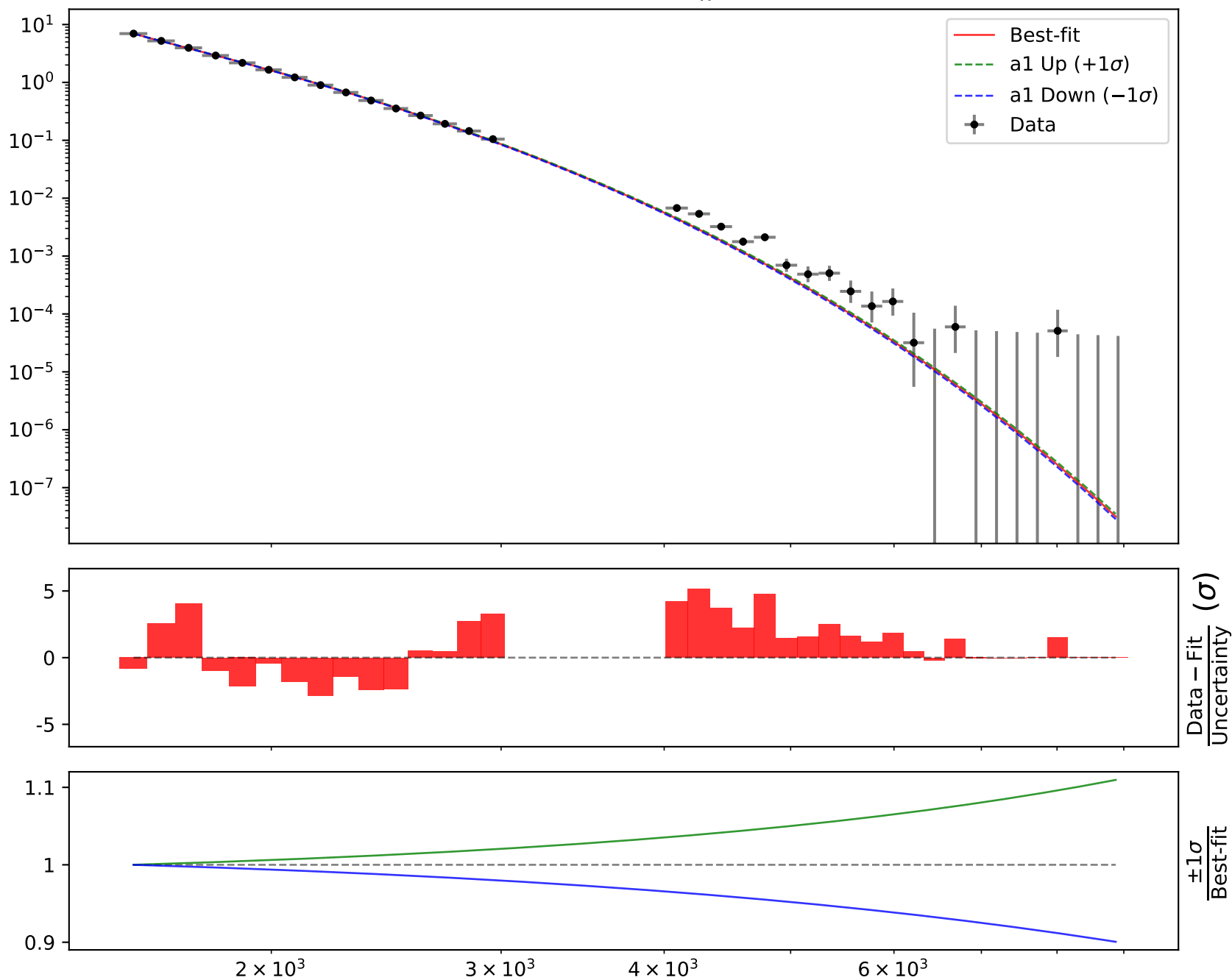
$$\chi^2/\text{NDF} = 129.2/35, \text{RMSE} = 0.0176, \text{R}^2 = 0.9999$$



Candidate function #10

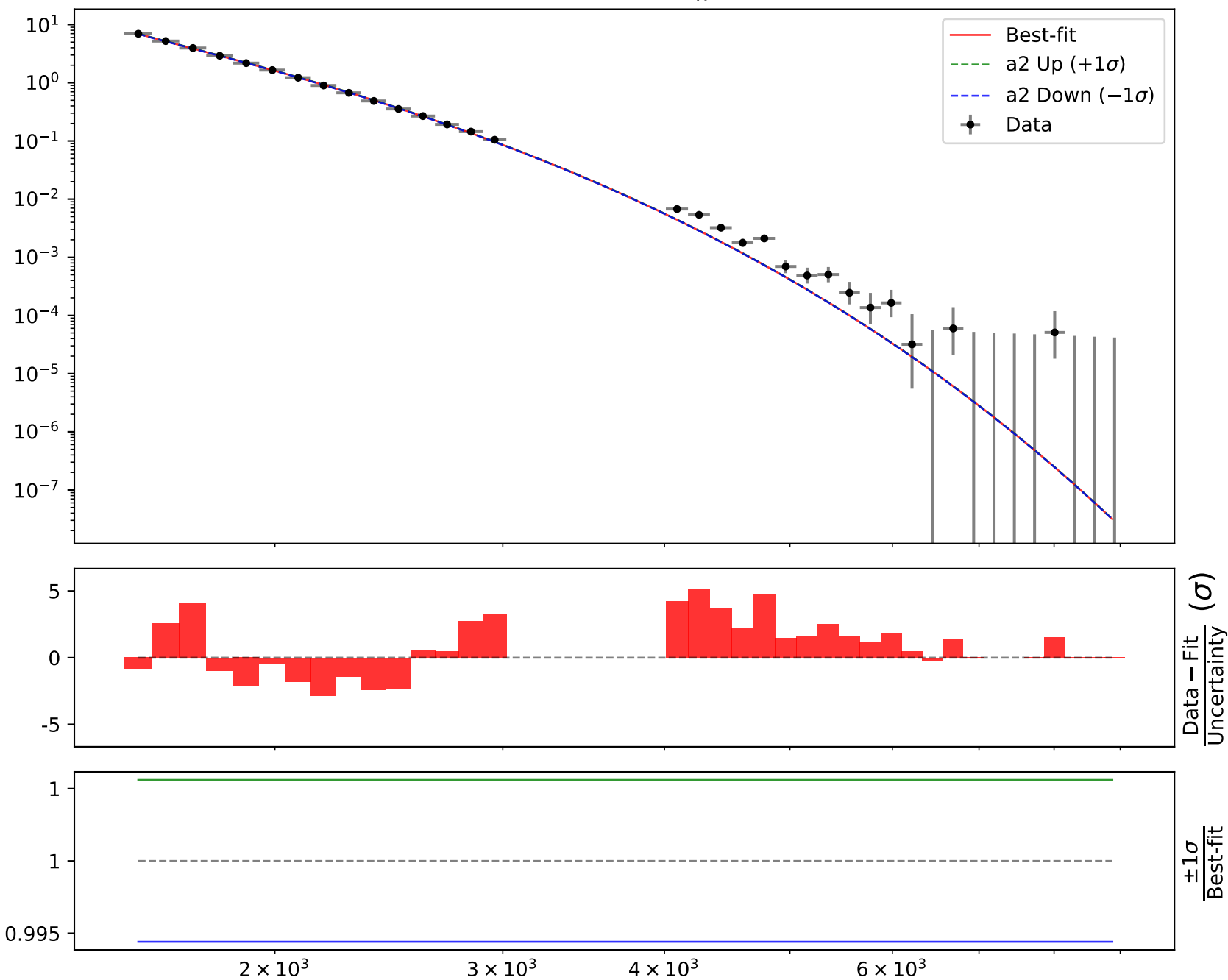
$$1.0 * (a2 * (a1 * ((x0 - 1568.5) * 0.000136221)) * (2 * ((x0 - 1568.5) * 0.000136221)))$$

$$a1 = 6.44003e - 05^{+3.456e - 06(5.37\%)}_{-3.302e - 06(5.13\%)}, \quad a2 = 6.98797^{+0.03912(0.56\%)}_{-0.03904(0.559\%)}$$

Candidate #10 $\chi^2/\text{NDF} = 181.6/35$, RMSE = 0.01789, R2 = 0.9999

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

$$a1 = 6.44003e-05^{+3.456e-06(5.37\%)}_{-3.302e-06(5.13\%)}, \quad a2 = 6.98797^{+0.03912(0.56\%)}_{-0.03904(0.559\%)}$$

Candidate #10 $\chi^2/\text{NDF} = 181.6/35$, RMSE = 0.01789, R2 = 0.9999

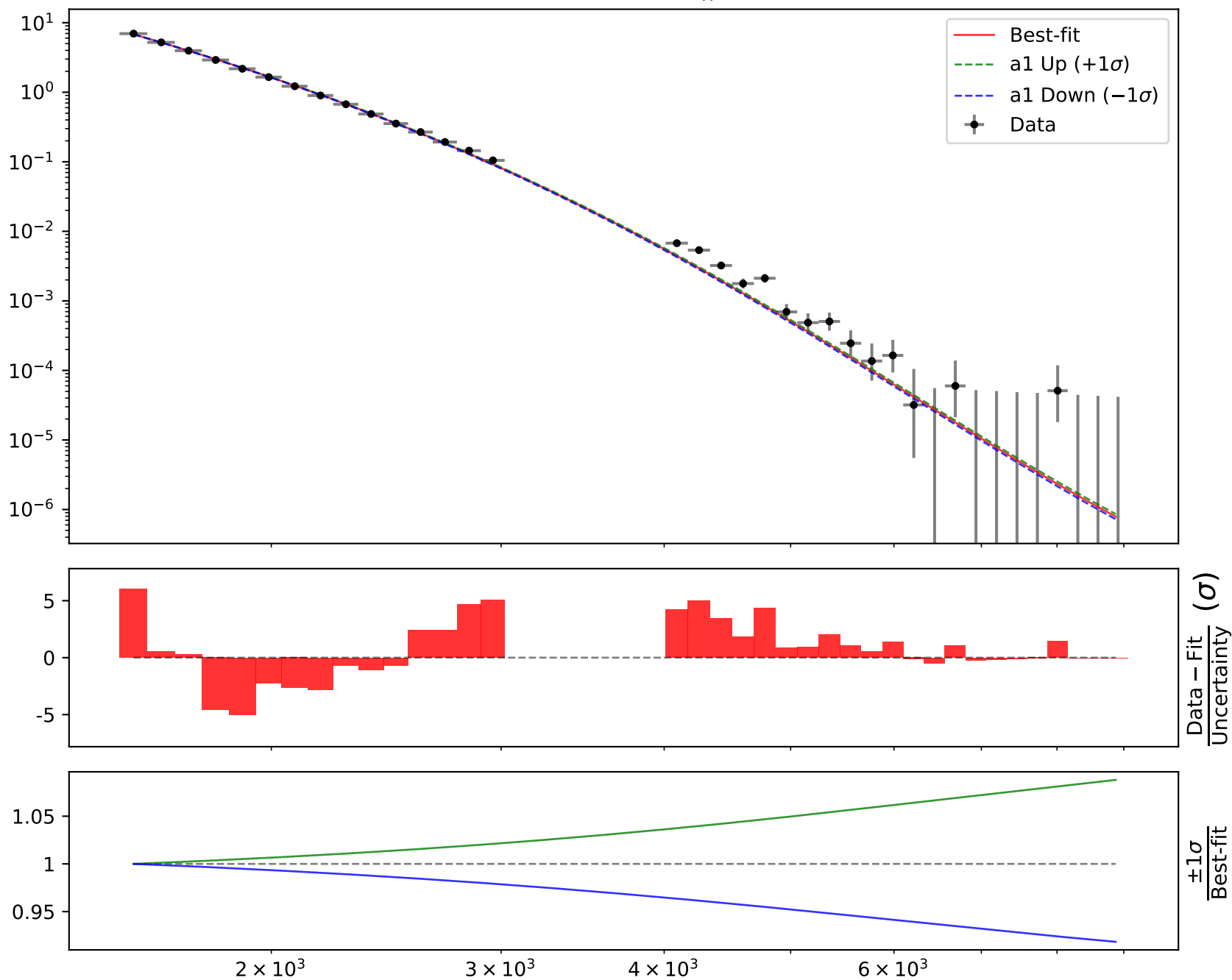
Candidate function #9

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

a1 = $8.39448\text{e} - 05$ ^{$+4.796\text{e} - 06(5.71\%)$} _{$-4.58\text{e} - 06(5.46\%)$} , **a2 = 0.14787** ^{$+0.001048(0.709\%)$} _{$-0.001036(0.701\%)$}

Candidate #9

$\chi^2/\text{NDF} = 254.7/35$, RMSE = 0.03137, R2 = 0.9996

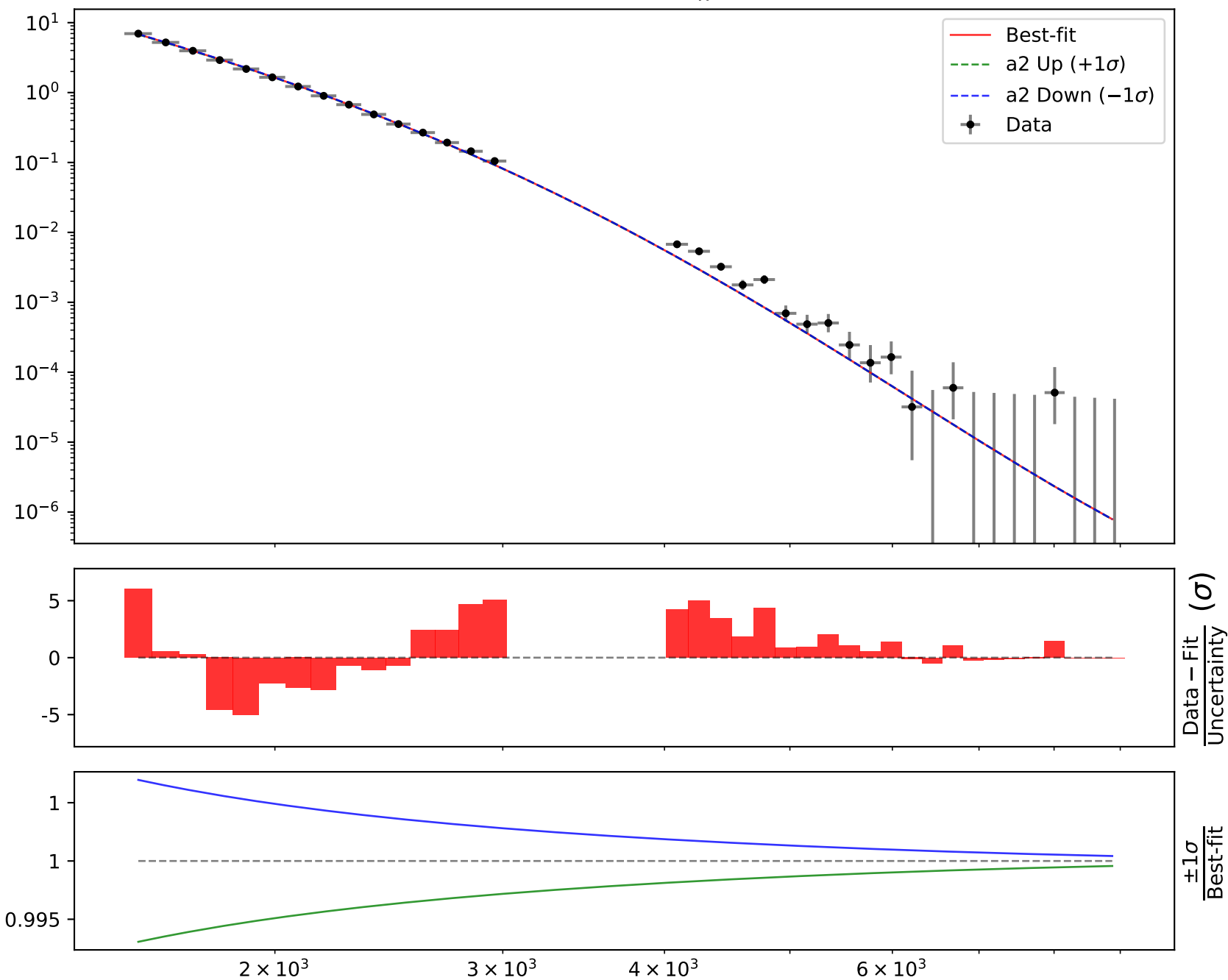


$$1.0 * (a1 * (2 * \tanh(((x0 - 1568.5) * 0.000136221))) / \tanh(a2 + ((x0 - 1568.5) * 0.000136221)))$$

$$a1 = 8.39448e-05^{+4.796e-06(5.71\%)}_{-4.58e-06(5.46\%)}, \quad a2 = 0.14787^{+0.001048(0.709\%)}_{-0.001036(0.701\%)}$$

Candidate #9

$$\chi^2/\text{NDF} = 254.7/35, \text{RMSE} = 0.03137, \text{R2} = 0.9996$$



Candidate function #8

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

$$a1 = 8.62319e-05^{+5.538e-06(6.42\%)}_{-5.257e-06(6.1\%)}, \quad a2 = 0.148047^{+0.001172(0.792\%)}_{-0.001158(0.782\%)}$$

Candidate #8 $\chi^2/\text{NDF} = 315.8/35$, RMSE = 0.03296, R2 = 0.9996

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

$$a1 = 8.62319e-05^{+5.538e-06(6.42\%)}_{-5.257e-06(6.1\%)}, \quad a2 = 0.148047^{+0.001172(0.792\%)}_{-0.001158(0.782\%)}$$

Candidate #8

$$\chi^2/\text{NDF} = 315.8/35, \text{RMSE} = 0.03296, \text{R}^2 = 0.9996$$



Candidate function #7

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

a1 = 8.83075e - 05^{+6.248e - 06(7.08%)}_{-5.898e - 06(6.68%)}, a2 = 0.148194^{+0.001287(0.868%)}_{-0.001269(0.856%)}

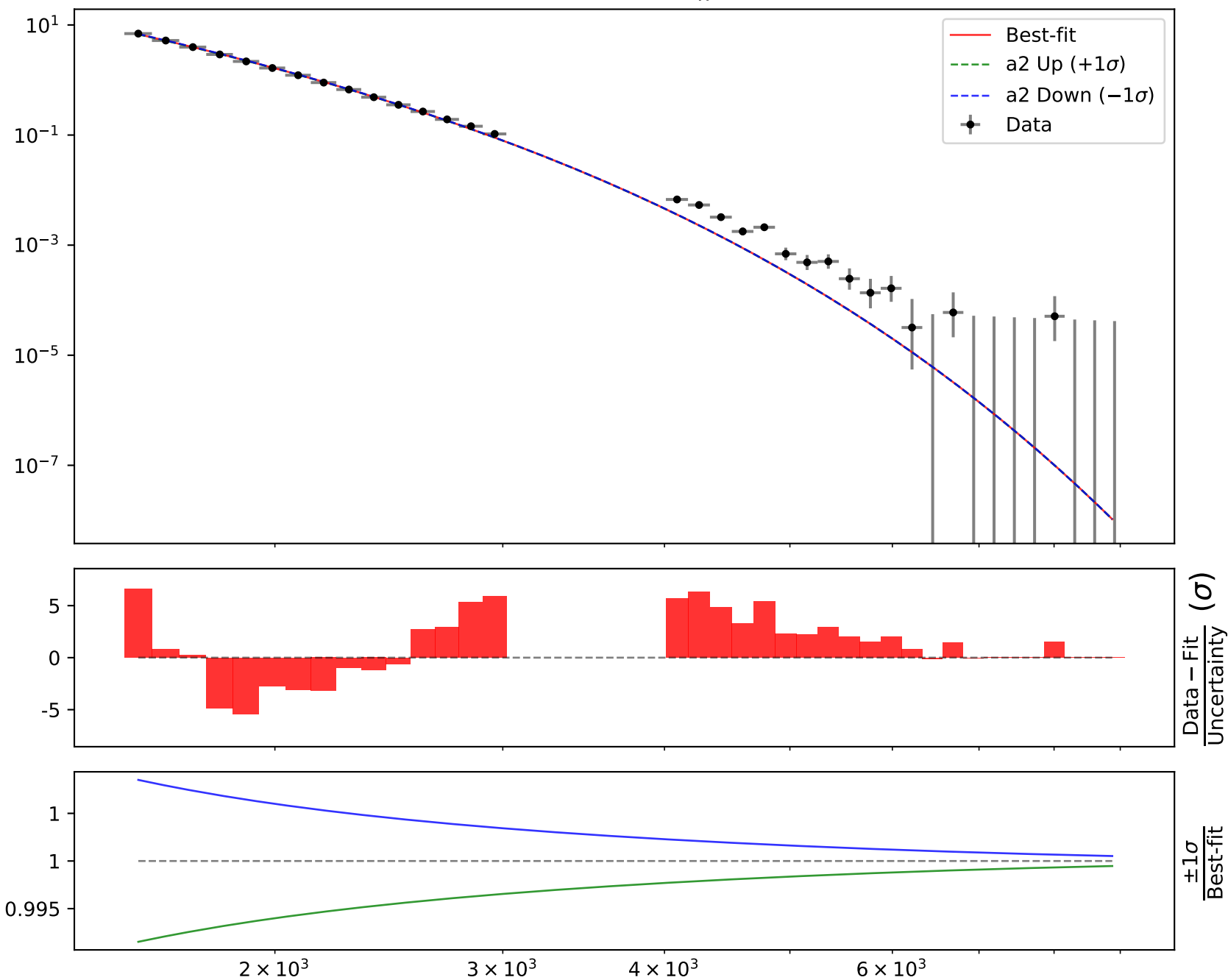
Candidate #7

$\chi^2/\text{NDF} = 377.6/35$, RMSE = 0.03432, R2 = 0.9995



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

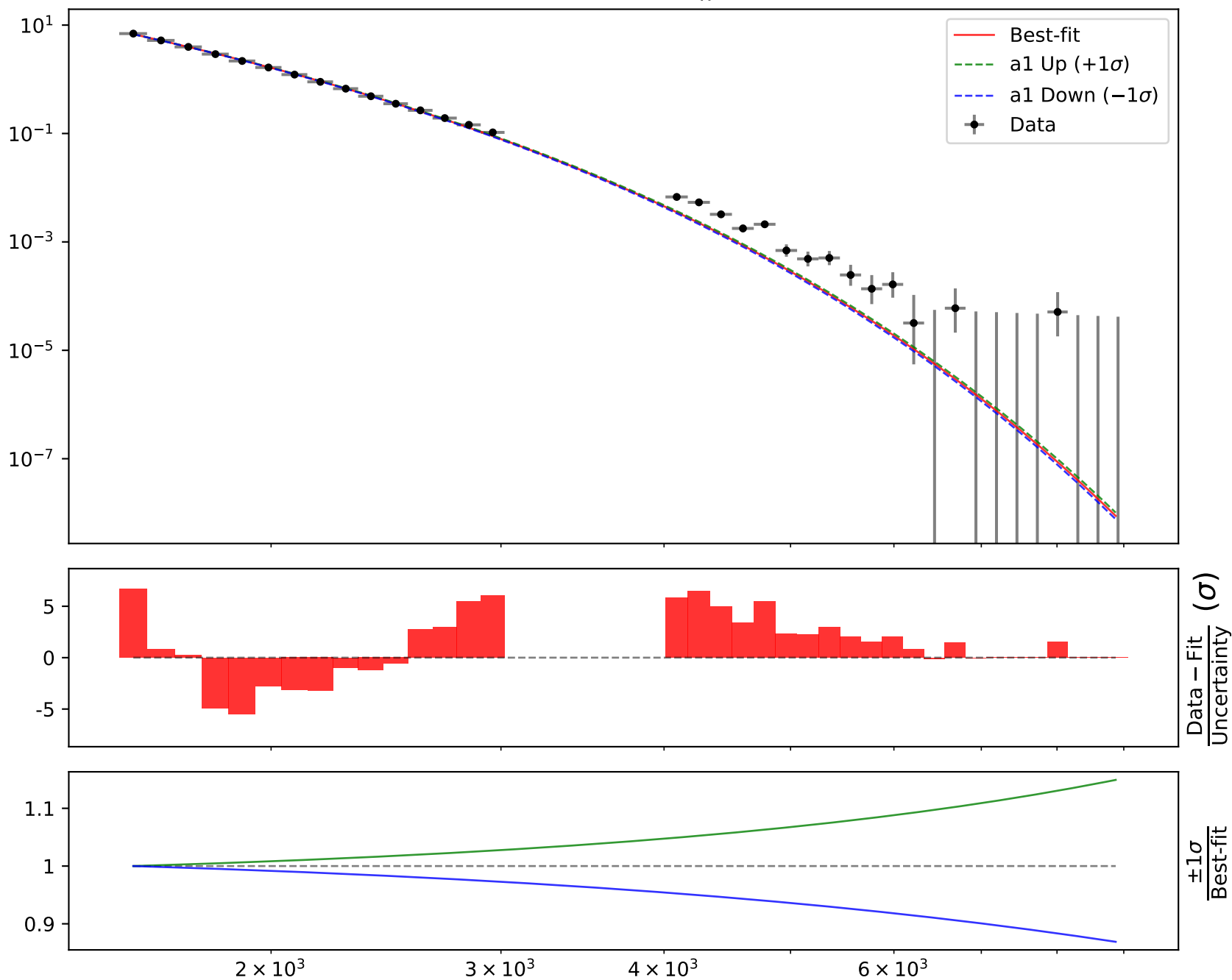
$$a1 = 8.83075e-05^{+6.248e-06(7.08\%)}_{-5.898e-06(6.68\%)}, \quad a2 = 0.148194^{+0.001287(0.868\%)}_{-0.001269(0.856\%)}$$

Candidate #7 $\chi^2/\text{NDF} = 377.6/35$, RMSE = 0.03432, R2 = 0.9995

Candidate function #6

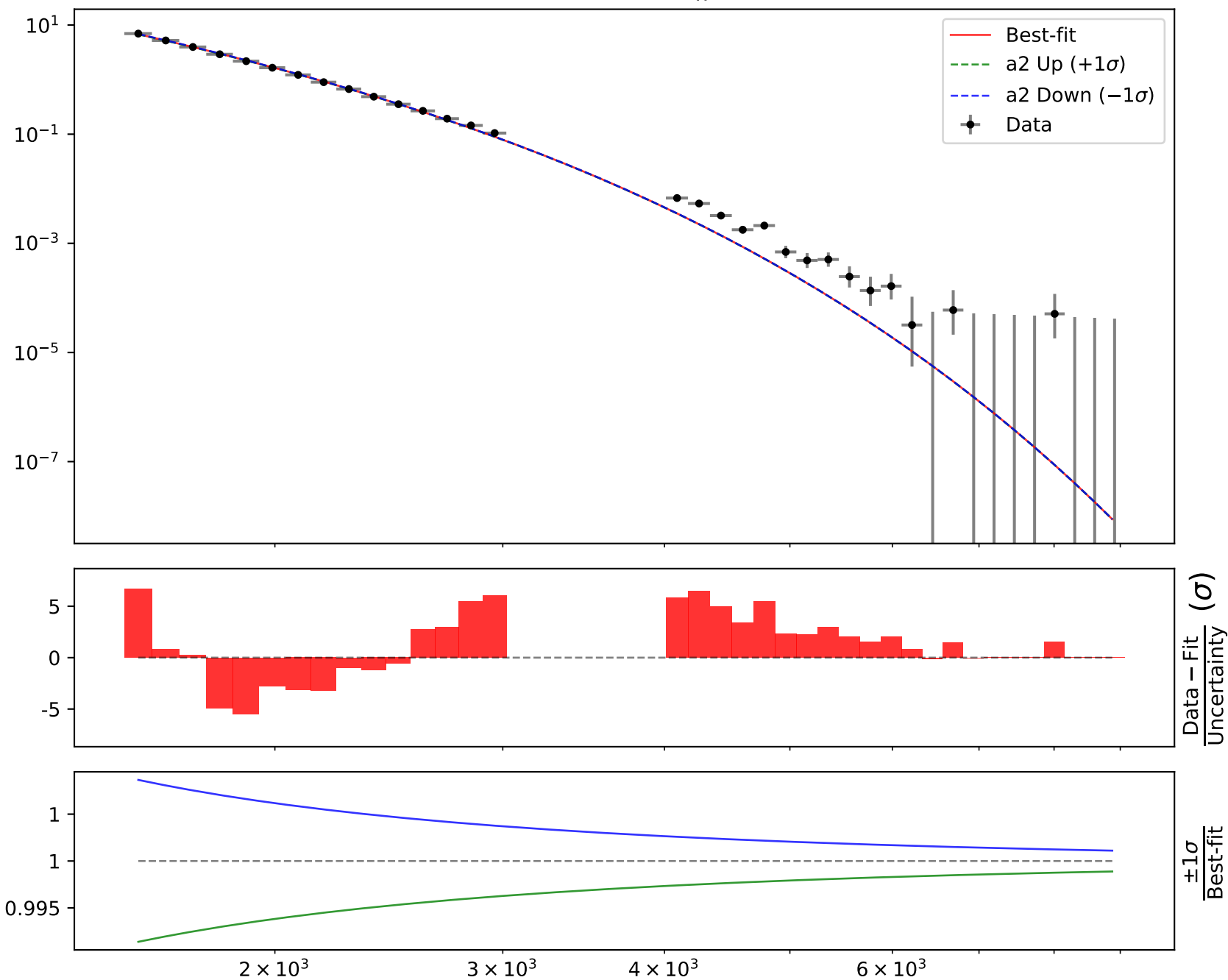
$$1.0 * (a1 * (2 * ((x0 - 1568.5) * 0.000136221)) / (a2 + ((x0 - 1568.5) * 0.000136221)))$$

$$a1 = 9.57826e-05^{+6.933e-06(7.24\%)}_{-6.534e-06(6.82\%)}, \quad a2 = 0.147163^{+0.00128(0.87\%)}_{-0.001263(0.858\%)}$$

Candidate #6 $\chi^2/\text{NDF} = 389.9/35$, RMSE = 0.03473, R2 = 0.9995

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

$$a1 = 9.57826e-05^{+6.933e-06(7.24\%)}_{-6.534e-06(6.82\%)}, \quad a2 = 0.147163^{+0.00128(0.87\%)}_{-0.001263(0.858\%)}$$

Candidate #6 $\chi^2/\text{NDF} = 389.9/35$, RMSE = 0.03473, R2 = 0.9995

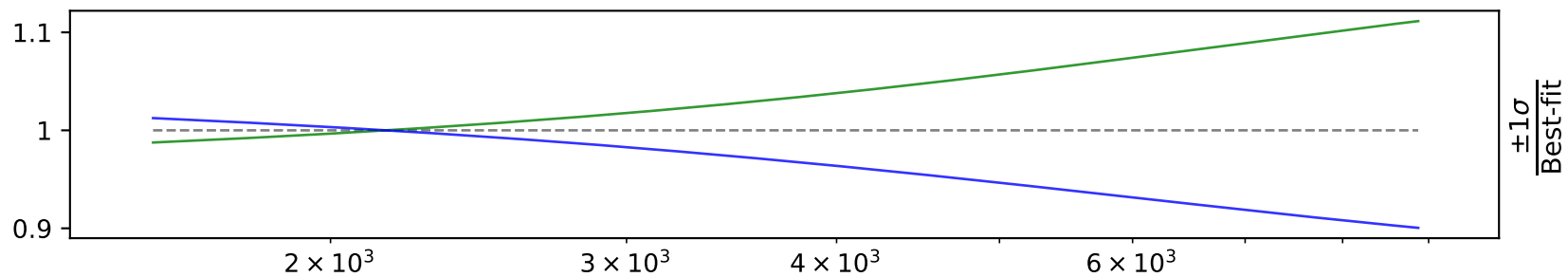
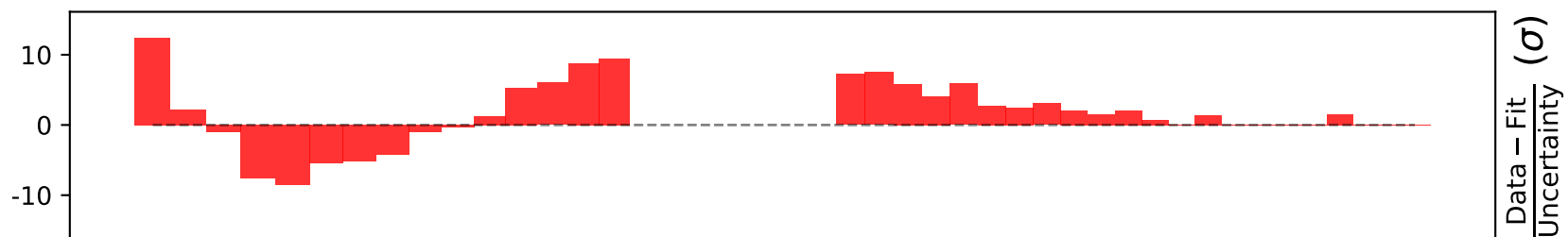
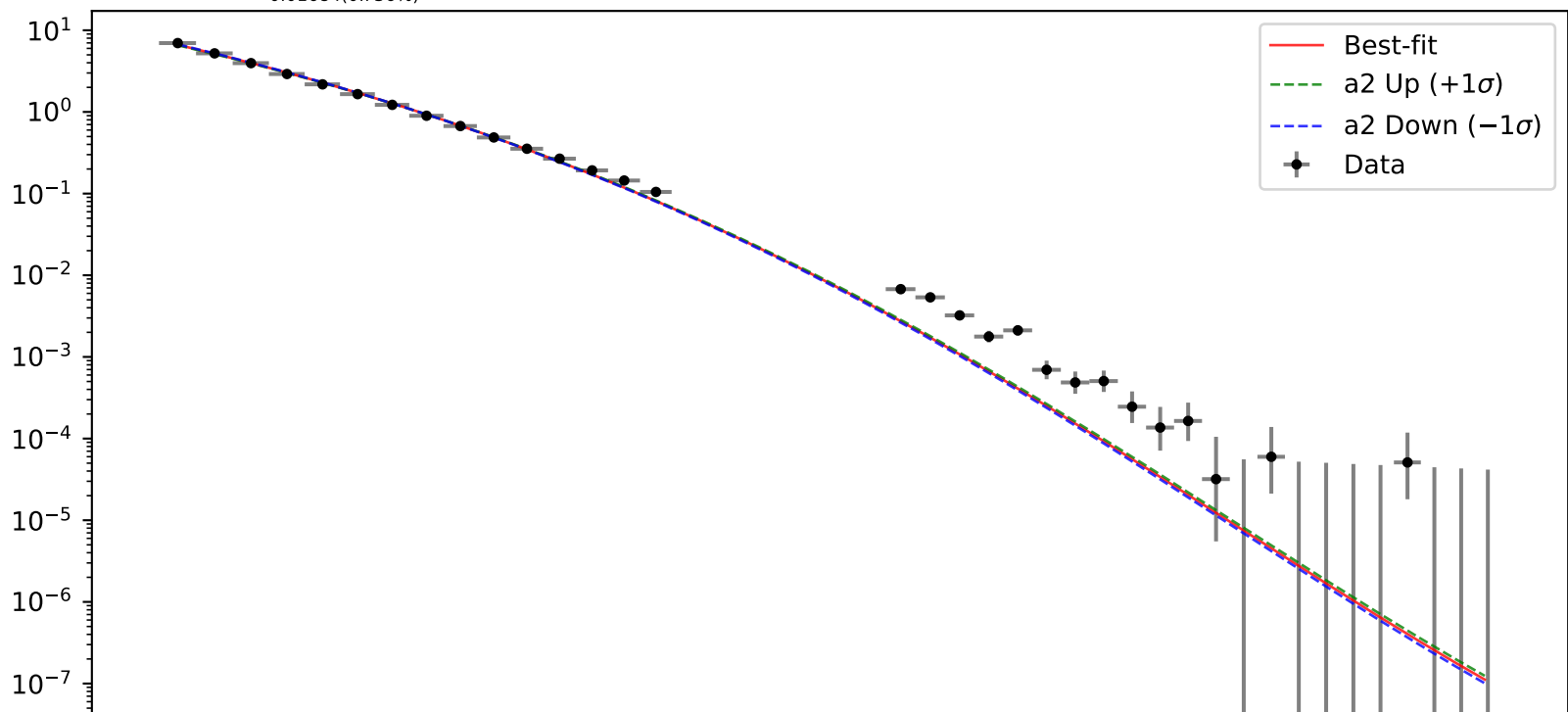
Candidate function #5

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

$$a1 = -0.184, \quad a2 = 3.38015e-05^{+2.378e-06(7.03\%)}_{-2.204e-06(6.52\%)},$$

$$a3 = 2.28928^{+0.01712(0.748\%)}_{-0.01684(0.736\%)}$$

Candidate #5
 $\chi^2/\text{NDF} = 830.9/35$, RMSE = 0.06185, R2 = 0.9984

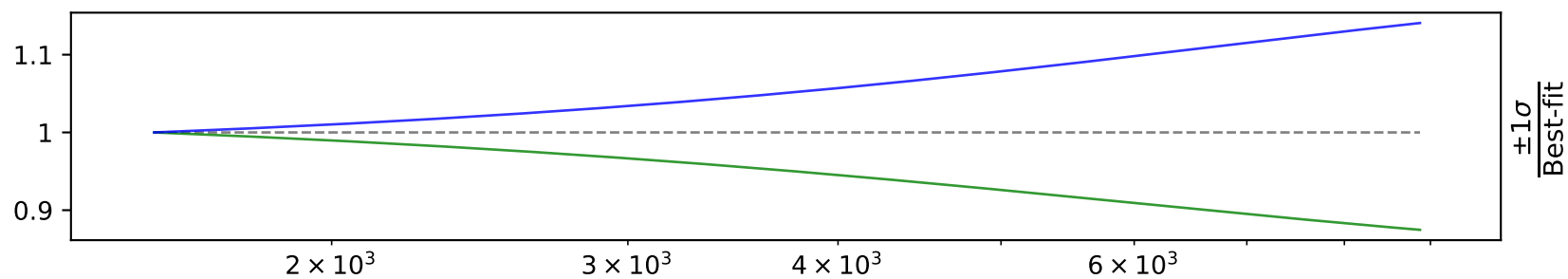
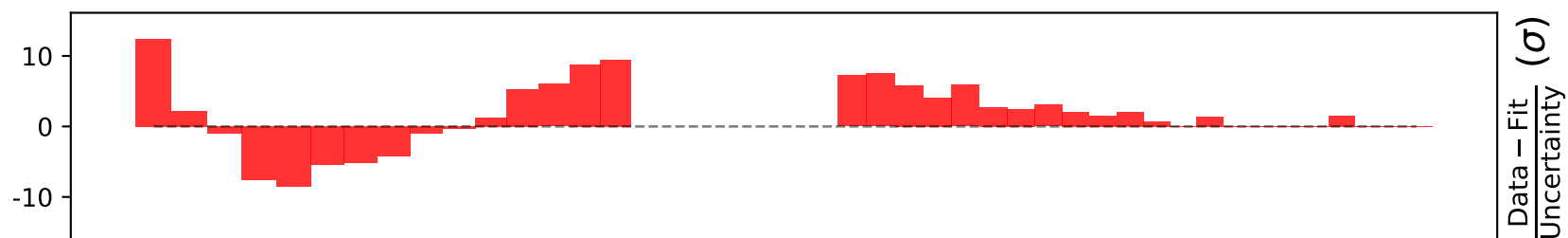
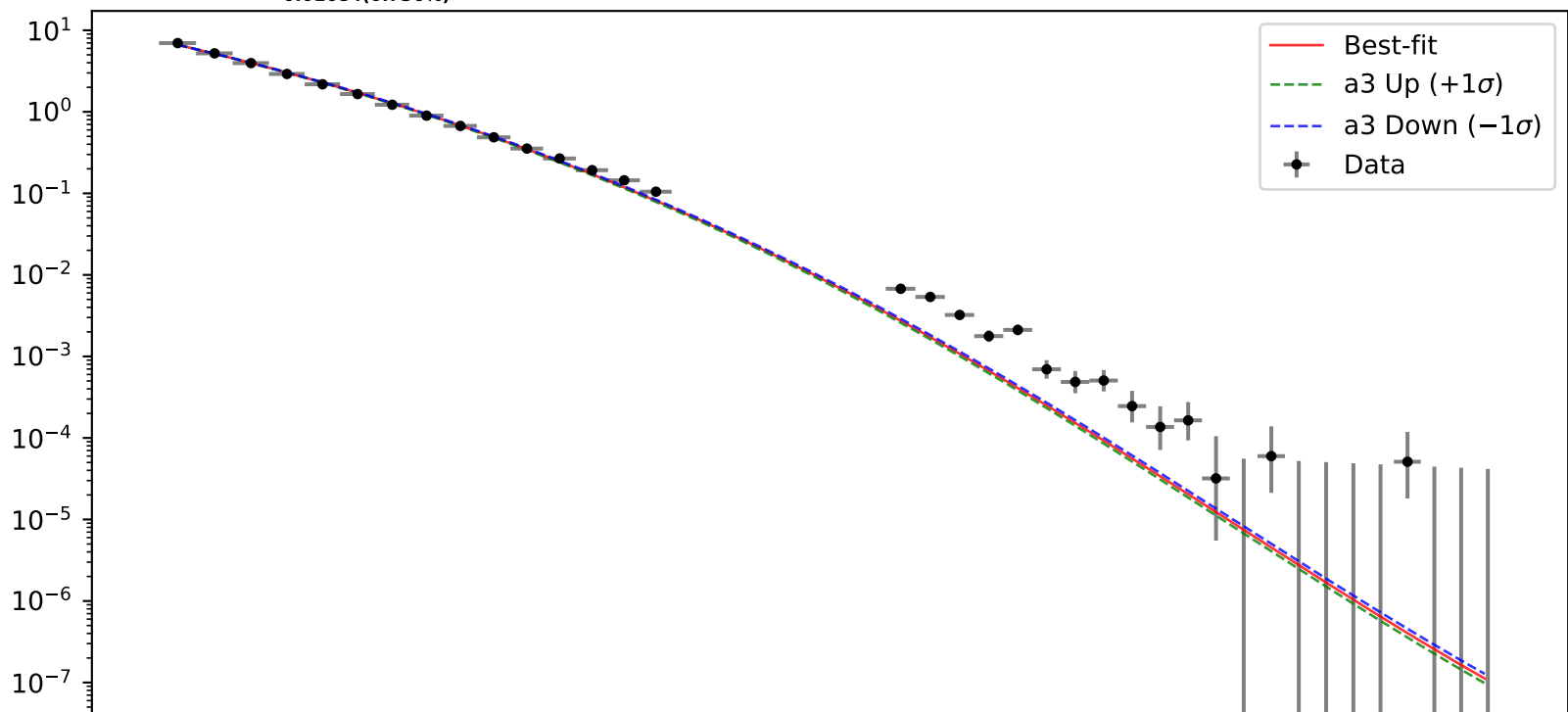


$$1.0*(a2** (a1 + a3*\tanh(((x0 - 1568.5) * 0.000136221))))$$

$$a1 = -0.184, \quad a2 = 3.38015e-05^{+2.378e-06(7.03\%)}_{-2.204e-06(6.52\%)},$$

$$a3 = 2.28928^{+0.01712(0.748\%)}_{-0.01684(0.736\%)}$$

Candidate #5
 $\chi^2/\text{NDF} = 830.9/35$, RMSE = 0.06185, R2 = 0.9984

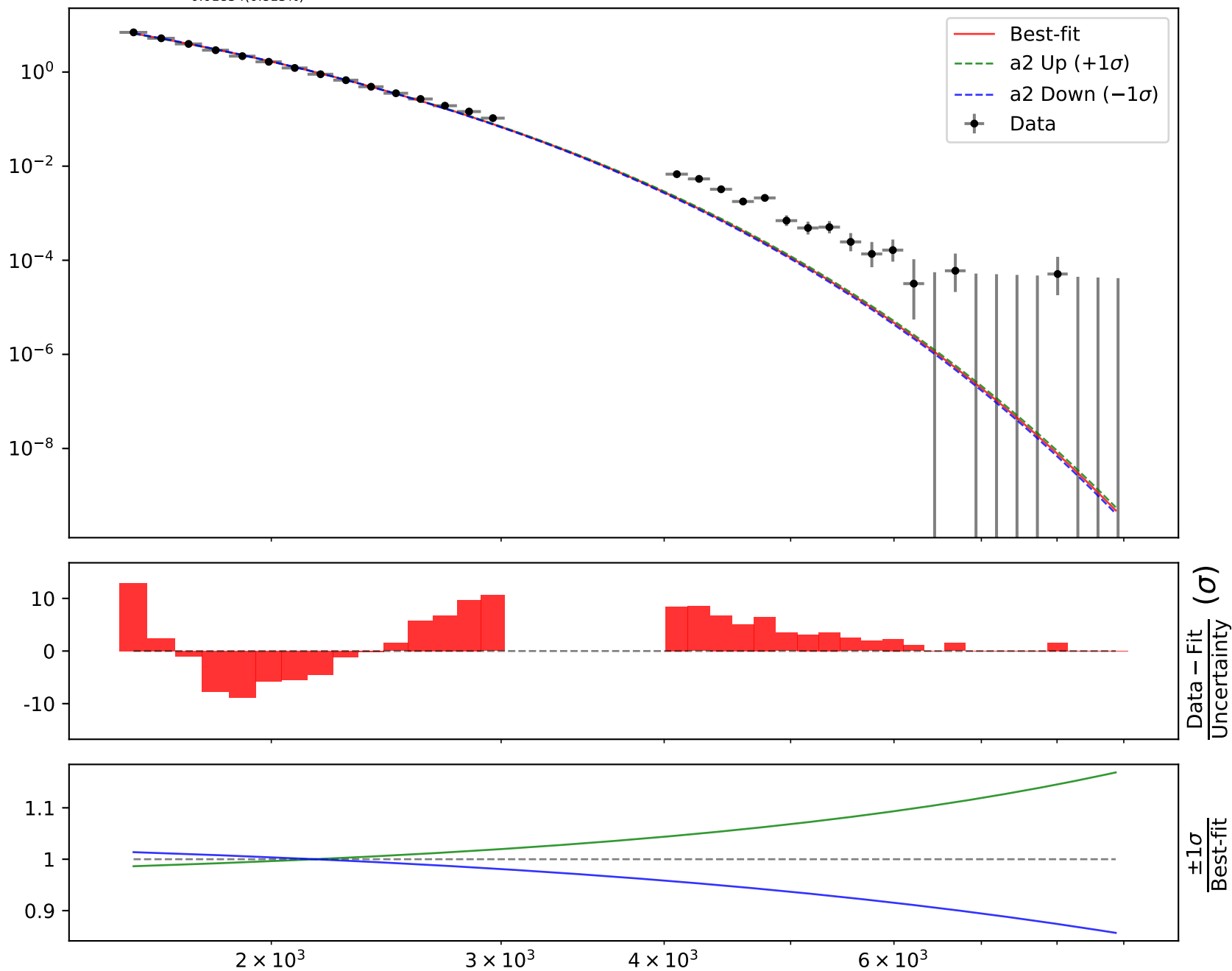


Candidate function #4

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

$$a1 = -0.184, \quad a2 = 3.41605e-05^{+2.653e-06(7.77\%)}_{-2.441e-06(7.14\%)},$$

$$a3 = 2.2813^{+0.01887(0.827\%)}_{-0.01854(0.813\%)}$$

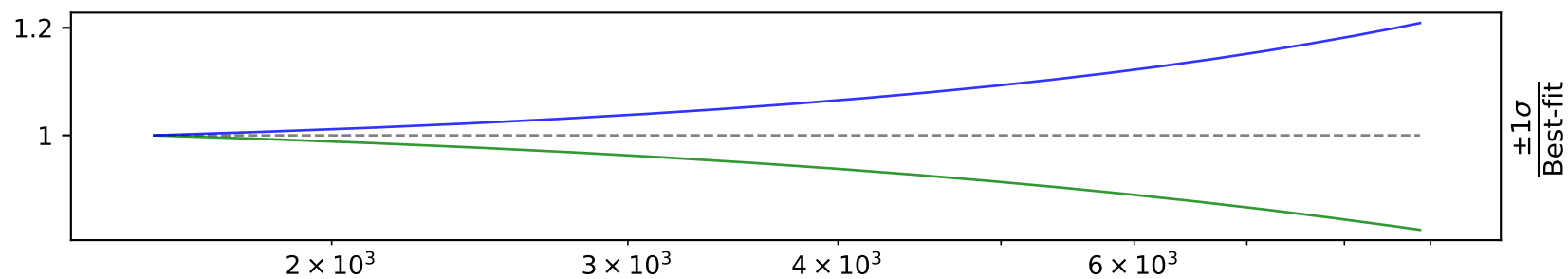
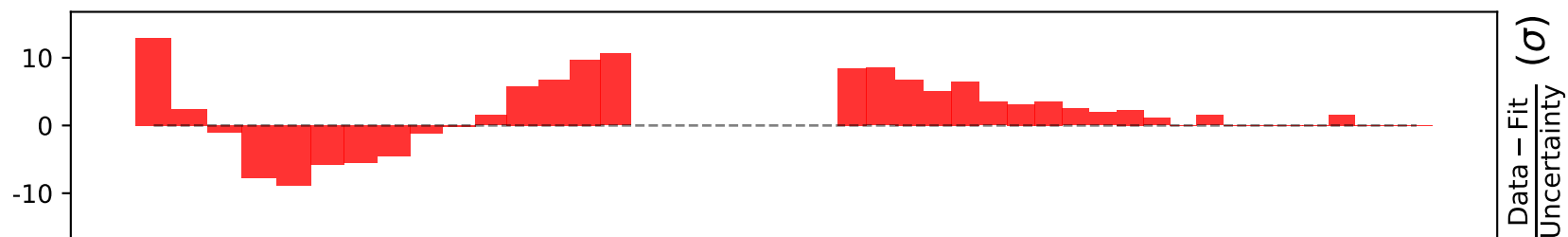
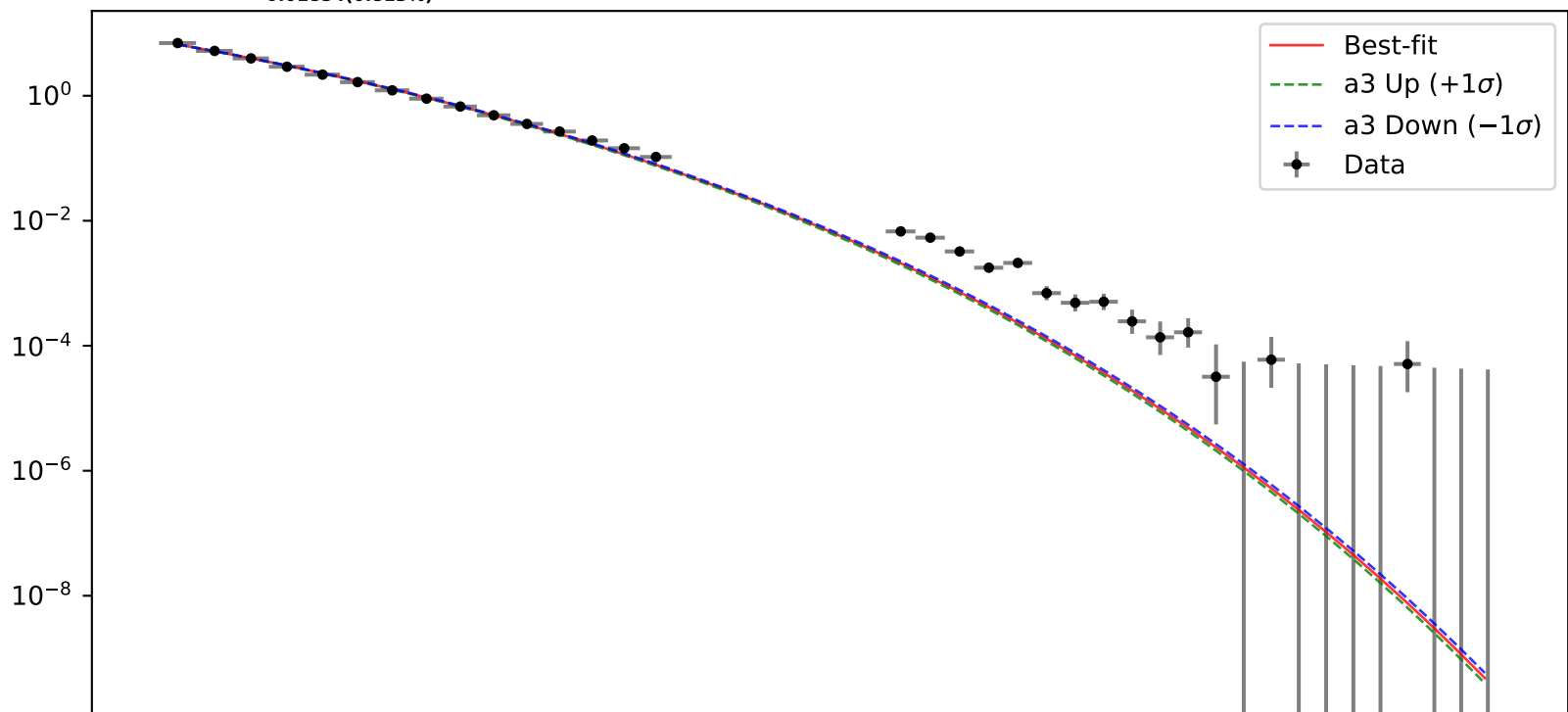
Candidate #4 $\chi^2/\text{NDF} = 999.7/35$, RMSE = 0.06455, R2 = 0.9983

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

$$a1 = -0.184, \quad a2 = 3.41605e-05^{+2.653e-06(7.77\%)}_{-2.441e-06(7.14\%)},$$

$$a3 = 2.2813^{+0.01887(0.827\%)}_{-0.01854(0.813\%)}$$

Candidate #4
 $\chi^2/\text{NDF} = 999.7/35$, RMSE = 0.06455, R2 = 0.9983



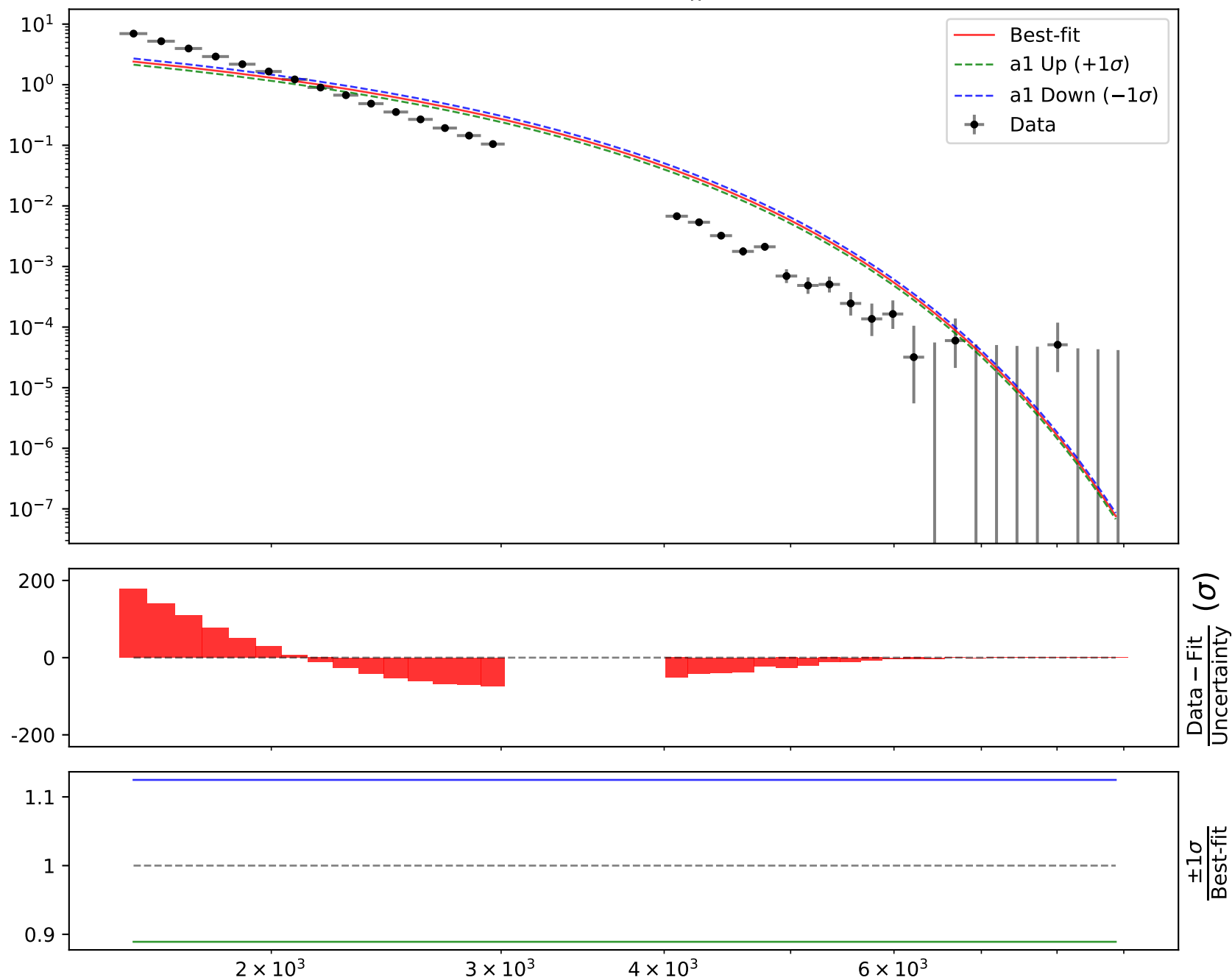
Candidate function #3

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

$$a1 = -1.08662^{+0.0116(1.07\%)}_{-0.0116(1.07\%)}, \quad a2 = 3.98e-05$$

Candidate #3

$$\chi^2/\text{NDF} = 105500.0/36, \text{RMSE} = 0.996, \text{R2} = 0.5947$$



Candidate function #2

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

$$a1 = 1.32e-05, \quad a2 = 2.21589^{+0.302(13.6\%)}_{-0.302(13.6\%)}$$

Candidate #2 $\chi^2/\text{NDF} = 127300.0/36$, RMSE = 1.055, R2 = 0.545

Candidate function #1

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

$$a1 = 1.11e-05$$

$$\chi^2/\text{NDF} = 184700.0/37, \text{RMSE} = 1.417, \text{R}^2 = 0.1801$$



Candidate function #0

$1.0 \cdot (a1)$ $a1 = 9.06e-05$ $\chi^2/\text{NDF} = 318800.0/37$, RMSE = 1.729, R2 = -0.2215