

Supplementary Table 5 SEA statistical model fitsa) Raw score fits at threshold $T_c=0.57$ ($N = 1,421$).

<i>Raw Score Fits</i>	<i>Value</i>	<i>Pearson r^2</i>
Mean coefficient	4.24×10^{-4}	0.9998
Mean exponent	1 (<i>const.</i>)	
Std. dev. coefficient	4.49×10^{-3}	0.9882
Std. dev. exponent	6.65×10^{-1}	

b) Distribution fits of background Z-scores at threshold $T_c=0.57$ ($N = 1,421$).

<i>Distribution</i>	<i>Normalized Chi-Square*</i>	<i>Pearson r^2</i>
Extreme value	6.89×10^{-3}	0.9969
Normal	5.77×10^{-2}	0.9830

* Normalized chi-square (X_N) computed as:

$$X_N = \text{SUM} \{ (\text{observed} - \text{expected})^2 / (\text{observed} + \text{expected}) \}$$

c) EVD and Normal distribution parameters at threshold 0.57 T_c .

<i>Distribution</i>	<i>Loc</i>	<i>Scale</i>	<i>Height</i>
Extreme value	-2.88×10^{-1}	9.45×10^{-1}	1.69×10^{-2}
Normal	-4.50×10^{-2}	1.00	1.63×10^{-2}