

Expected # of Islands, 2

Rewrite to depend more directly on the things we can control: c and θ

$$\text{Expected \# of islands} = N e^{-(1-\theta) L N / g}$$

$$= N e^{-(1-\theta) c}$$

$$= \frac{L/g}{L/g} N e^{-(1-\theta) c}$$

$$= \frac{g}{L} c e^{-(1-\theta) c}$$

