

EOSC 114
A Fragile System?
EQUATIONS LIST

$$\rho = \frac{\text{mass}}{\text{volume}} = \frac{m}{V}$$

$$P = \frac{\text{Work}}{\text{time}} = \frac{W}{t}$$

$$RP_M = \frac{(\text{time span of data record})}{(\text{number of cases of magnitude M})}$$

$$E = m \times c^2$$

$$f = \frac{c}{\lambda}$$

$$F = m \times a$$

$$W = F \times d$$

$$PE = g \times m \times z$$

$$P = T = \frac{1}{f}$$

$$KE = \frac{1}{2} m \times V^2$$

$$P = T = \frac{\lambda}{c}$$

$$\Delta Q_H = m \times C \times \Delta T$$

$$DT, \text{ years} = \frac{70}{\% \text{ growth rate/year}}$$

$$\Delta Q_E = L \times \Delta m$$