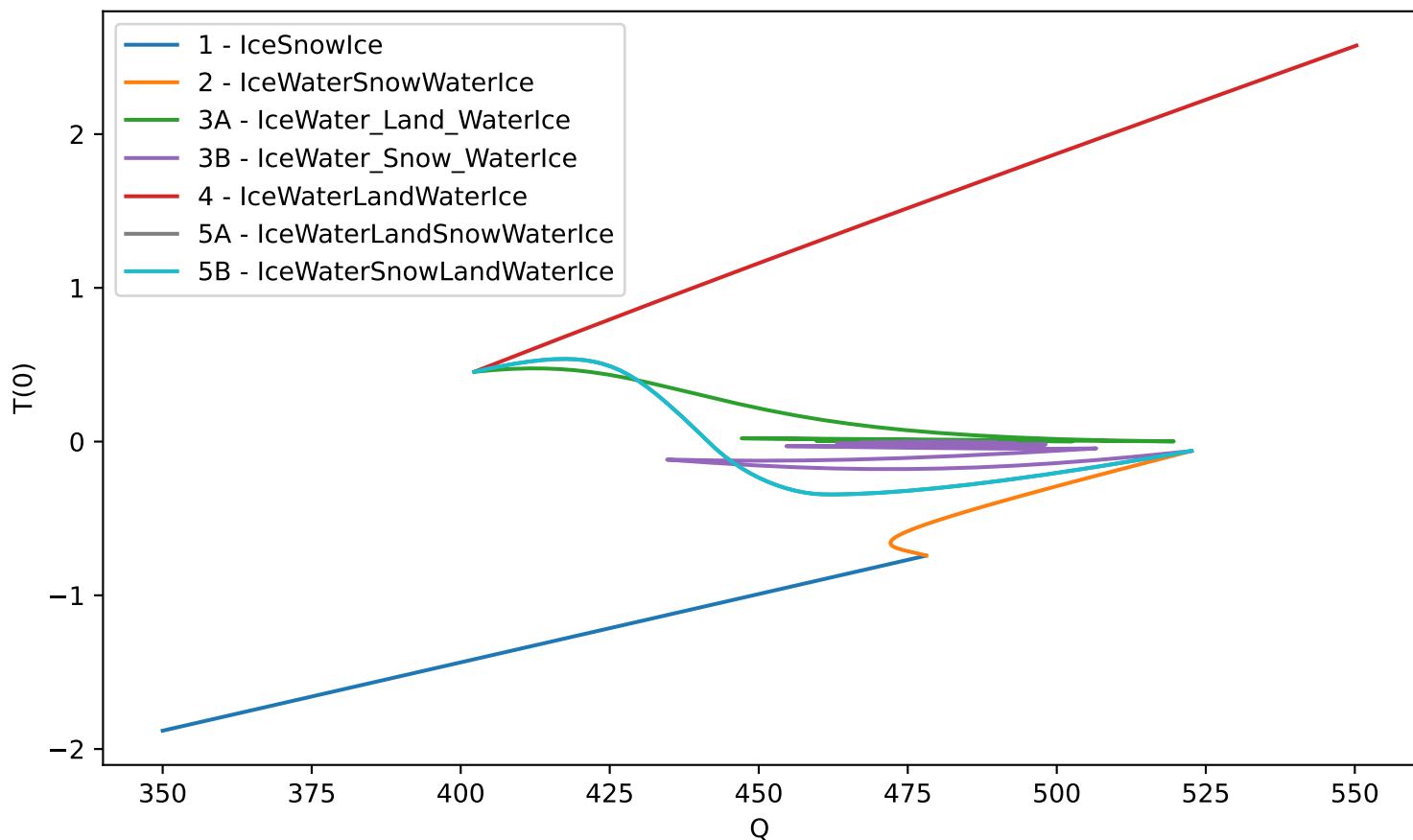
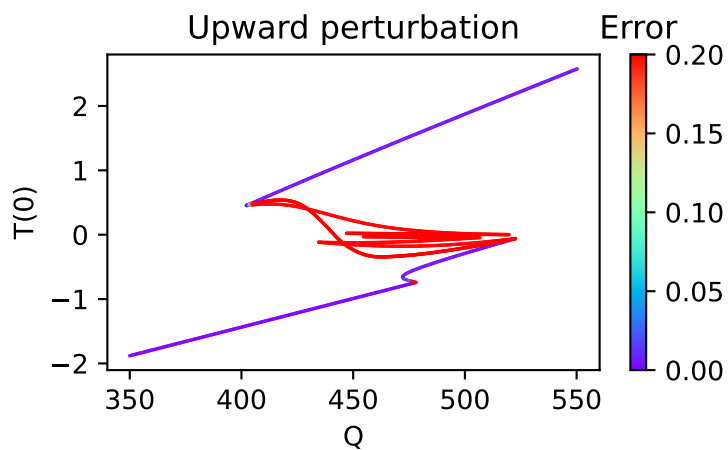


Bifurcation diagram

$$S(x) = \frac{4}{\sqrt{6\pi}} e^{-\frac{x^2}{6}}$$



Upward perturbation



Downward perturbation

