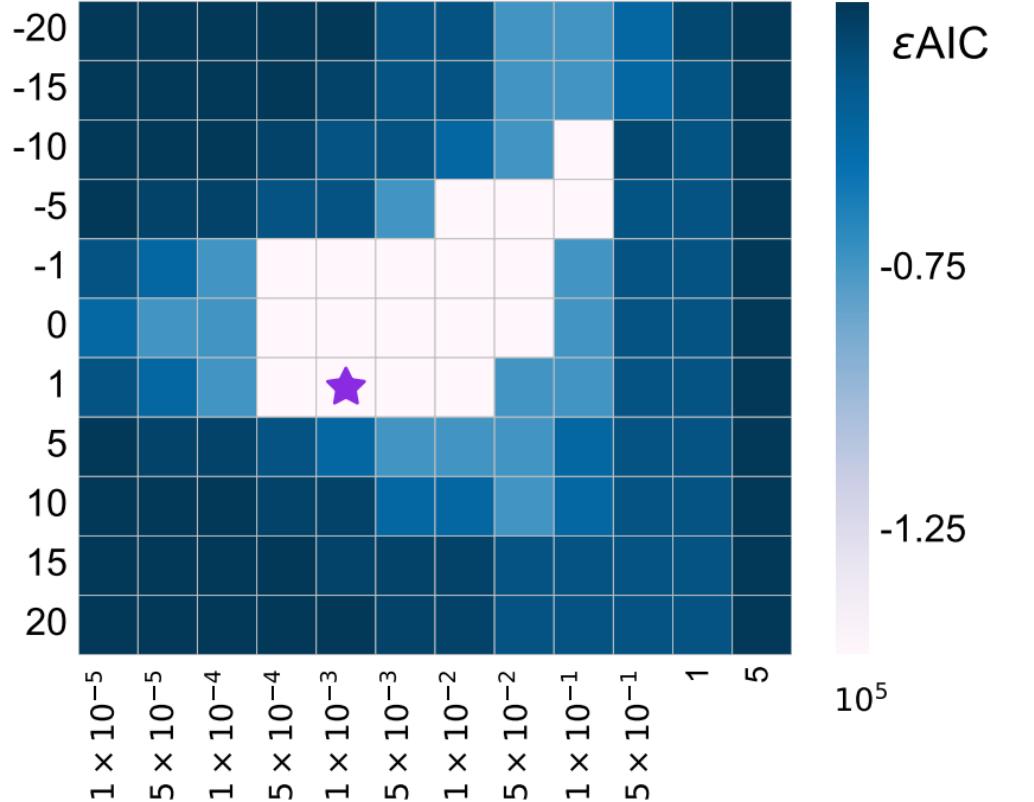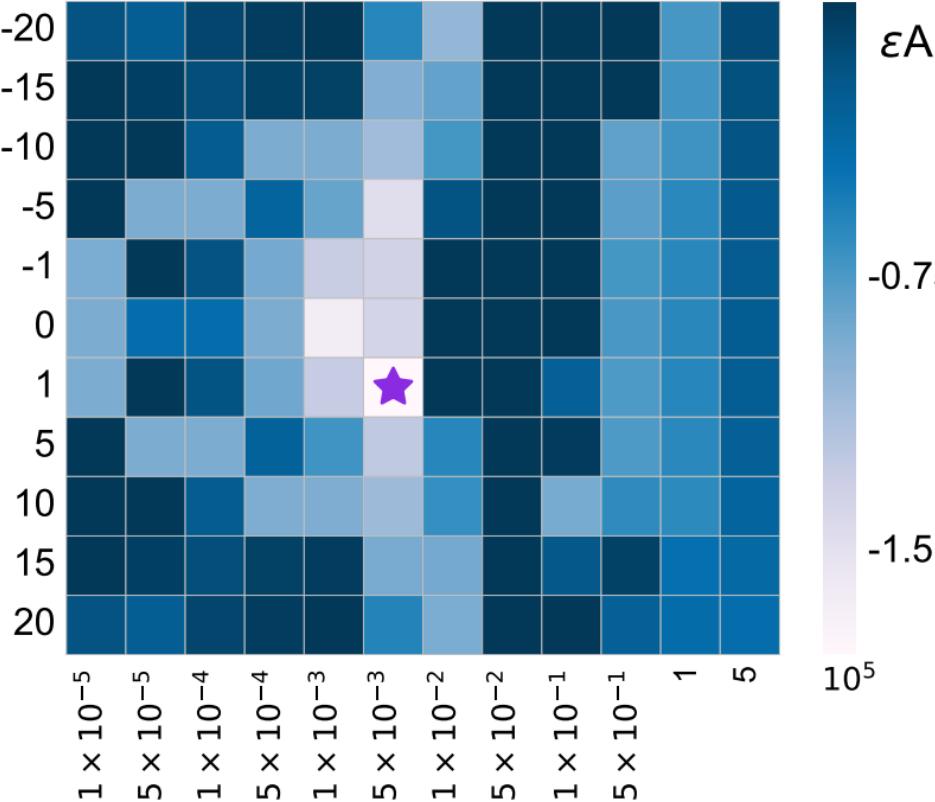**a** *Cellular energy depletion*
Grid search: $\nu_1 = 1$, $\Delta\nu = 1 \times 10^{-3}$

b *UAV obstacle avoidance*
Grid search: $\nu_1 = 1$, $\Delta\nu = 5 \times 10^{-3}$

c *Fish community*
Grid search: $\nu_1 = 0$, $\Delta\nu = 1$