APPENDIX B: Effect of changing the parameter values

Figure B1. The effect of resource value \( v \) on the switchpoint between non-aggressive \( (P_H < 0.5) \) and aggressive \( (P_H \geq 0.5) \) behaviour under the ESS.

For each value of \( v \), aggression is greater above the dividing line (darker region) than below it (lighter region).

Other parameter values:
- \( c = 1.0 \)
- \( \gamma = 0.1 \)
- \( p_0 = p_1 = 0.5 \)
- \( d = 0.1 \)
- \( F = 30 \)
- \( \epsilon = 0.005 \)

Figure B2. The effect of mortality rate \( d \) on the switchpoint between non-aggressive \( (P_H < 0.5) \) and aggressive \( (P_H \geq 0.5) \) behaviour under the ESS.

For each value of \( d \), aggression is greater above the dividing line (darker region) than below it (lighter region).

Other parameter values:
- \( v = 1.0 \)
- \( c = 1.0 \)
- \( \gamma = 0.1 \)
- \( p_0 = p_1 = 0.5 \)
- \( F = 30 \)
- \( \epsilon = 0.005 \)
Figure B3. The effect of the chance that a weaker individual defeats a stronger individual in a fight ($\gamma$) on the switchpoint between non-aggressive ($P_H < 0.5$) and aggressive ($P_H \geq 0.5$) behaviour under the ESS. For each value of $\gamma$, aggression is greater above the dividing line (darker region) than below it (lighter region). Other parameter values: $v = 1.0$, $c = 1.0$, $p_0 = p_1 = 0.5$, $d = 0.1$, $F = 30$, $\varepsilon = 0.005$.

Figure B4. The effect of the proportion of strong individuals ($p_1$) on the switchpoint between non-aggressive ($P_H < 0.5$) and aggressive ($P_H \geq 0.5$) behaviour under the ESS. For each value of $p_1$, aggression is greater above the dividing line (darker region) than below it (lighter region). Other parameter values: $v = 1.0$, $c = 1.0$, $\gamma = 0.1$, $d = 0.1$, $F = 30$, $\varepsilon = 0.005$. 