

Female preconditioning (50 - 350 m)

(-) $PREY_{pre.her}$

Increased competition with herring on summer feeding grounds leads to poorer feeding conditions and reduced adult condition

Female preconditioning (50 - 350 m)

(-) Bl_{pre}

A northward-shifted NPC bifurcation leads to increased advection of prey southwards, leading to poorer feeding conditions off BC/WA/OR and reduced adult condition

Female preconditioning (50 - 350 m)

(-) $EKE_{May-Sep, 34.5-42.5^{\circ}N}$

Increased transport of nearshore waters offshore by eddies, jets, and meanders leads to poorer feeding conditions and reduced adult condition

Yolk-sac larvae (50 - 100 m)

(-) LST_{yolk}

Increased northward transport advects larvae away from southern nursery grounds and increases later overlap with age-1 hake, leading to decreased survival

First-feeding larvae (50 - 200 m)

(-) $STORMBlarv$

More time between storm events reduces the supply of surface prey to depth, leading to decreased survival

