

IMPACTS OF INCREASING SEA TEMPERATURE ON FISHES

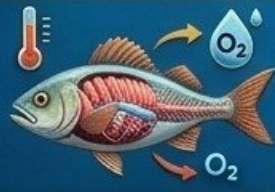
· RISING OCEAN TEMPERATURES CREATE A CASCADE OF EFFECTS ·

· PHYSIOLOGICAL EFFECTS & STRESS ·



INCREASED METABOLISM

Fish, as ectotherms, require more food just to survive. Less energy for growth & reproduction.



REDUCED OXYGEN LEVELS

Warmer water holds less dissolved oxygen. Stressful for respiration, reduces performance

CHRONIC STRESS & WEAKENED IMMUNITY

· REPRODUCTIVE ISSUES & EARLY LIFE ·



DISRUPTED SPAWNING TIMES

Misalignment with optimal environmental cues and food source availability.

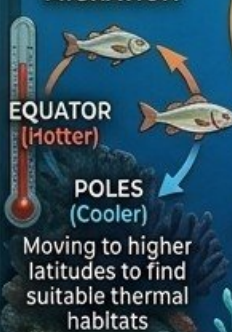


REDUCED OFFSPRING SURVIVAL

Negative impacts on egg development, larval survival, and growth rates.

· BEHAVIORAL & DISTRIBUTION SHIFTS ·

LATITUDINAL MIGRATION



LOSING CRITICAL HABITATS

ALTITUDINAL MIGRATION



· ECOLOGICAL & ECONOMIC CONSEQUENCES ·

FOOD WEB DISRUPTION



FISHERIES IMPACT



Changes in species distribution and abundance affect livelihood, food security, and regional economies.

MAX CATCH POTENTIAL

