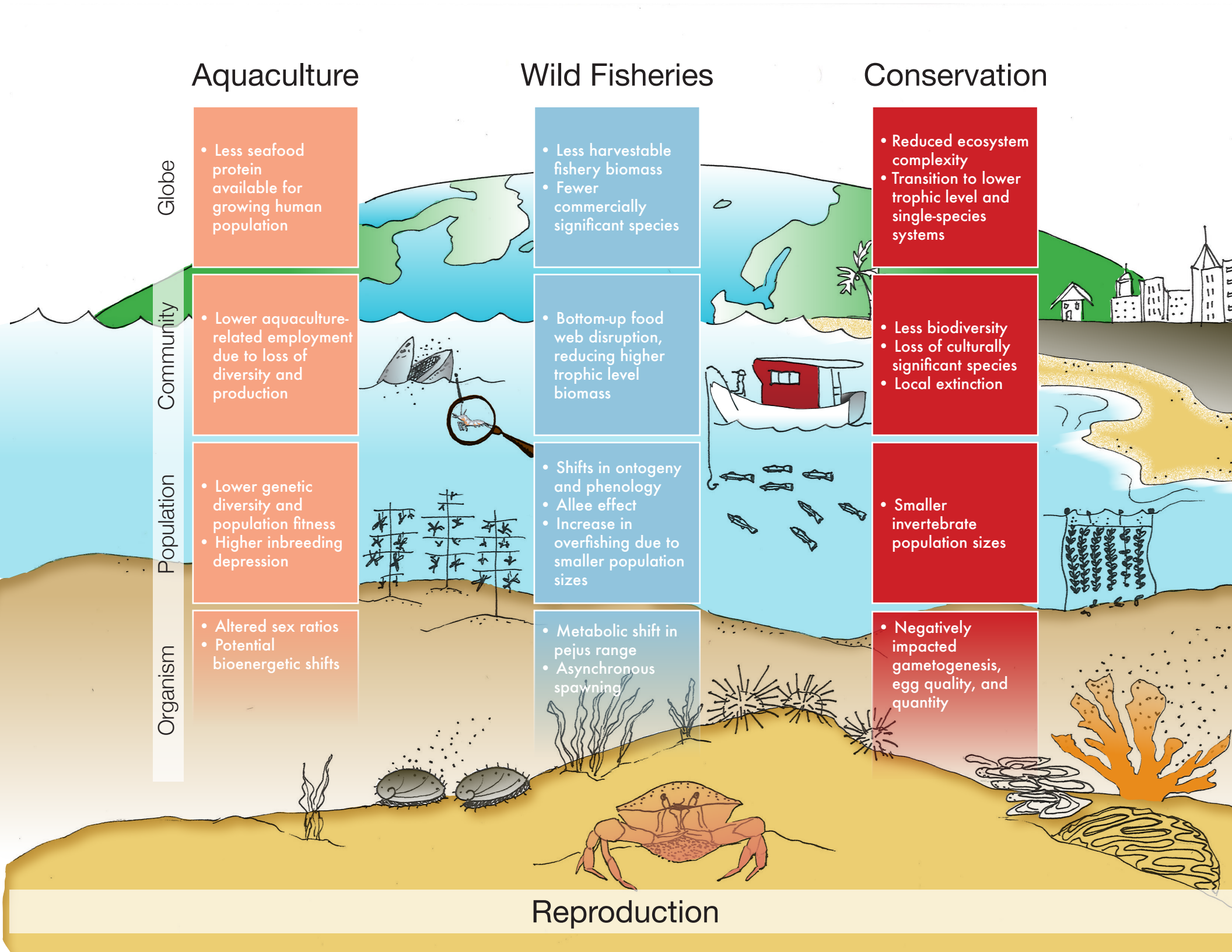
Aquaculture
Wild Fisheries
Conservation
Globe
Community
Population
Organism
• Less seafood protein available for growing human population
• Less harvestable fishery biomass
• Fewer commercially significant species
• Reduced ecosystem complexity
• Transition to lower trophic level and single-species systems
• Lower aquaculture-related employment due to loss of diversity and production
• Bottom-up food web disruption, reducing higher trophic level biomass
• Less biodiversity
• Loss of culturally significant species
• Local extinction
• Lower genetic diversity and population fitness
• Higher inbreeding depression
• Shifts in ontogeny and phenology
• Allee effect
• Increase in overfishing due to smaller population sizes
• Smaller invertebrate population sizes
• Altered sex ratios
• Potential bioenergetic shifts
• Metabolic shift in pejus range
• Asynchronous spawning
• Negatively impacted gametogenesis, egg quality, and quantity
Reproduction