

DEOXYGENATION

A Wake Up Call To Save Our Suffocating Seas

Climate change is now accelerating the loss of life-sustaining oxygen from the ocean. This deoxygenation will adversely impact food security and human populations the world over.



DEOXYGENATION IS

activated primarily by

OCEAN WARMING.



Heated ocean water resulting from climate change holds less soluble oxygen and leads to greater

STRATIFICATION.

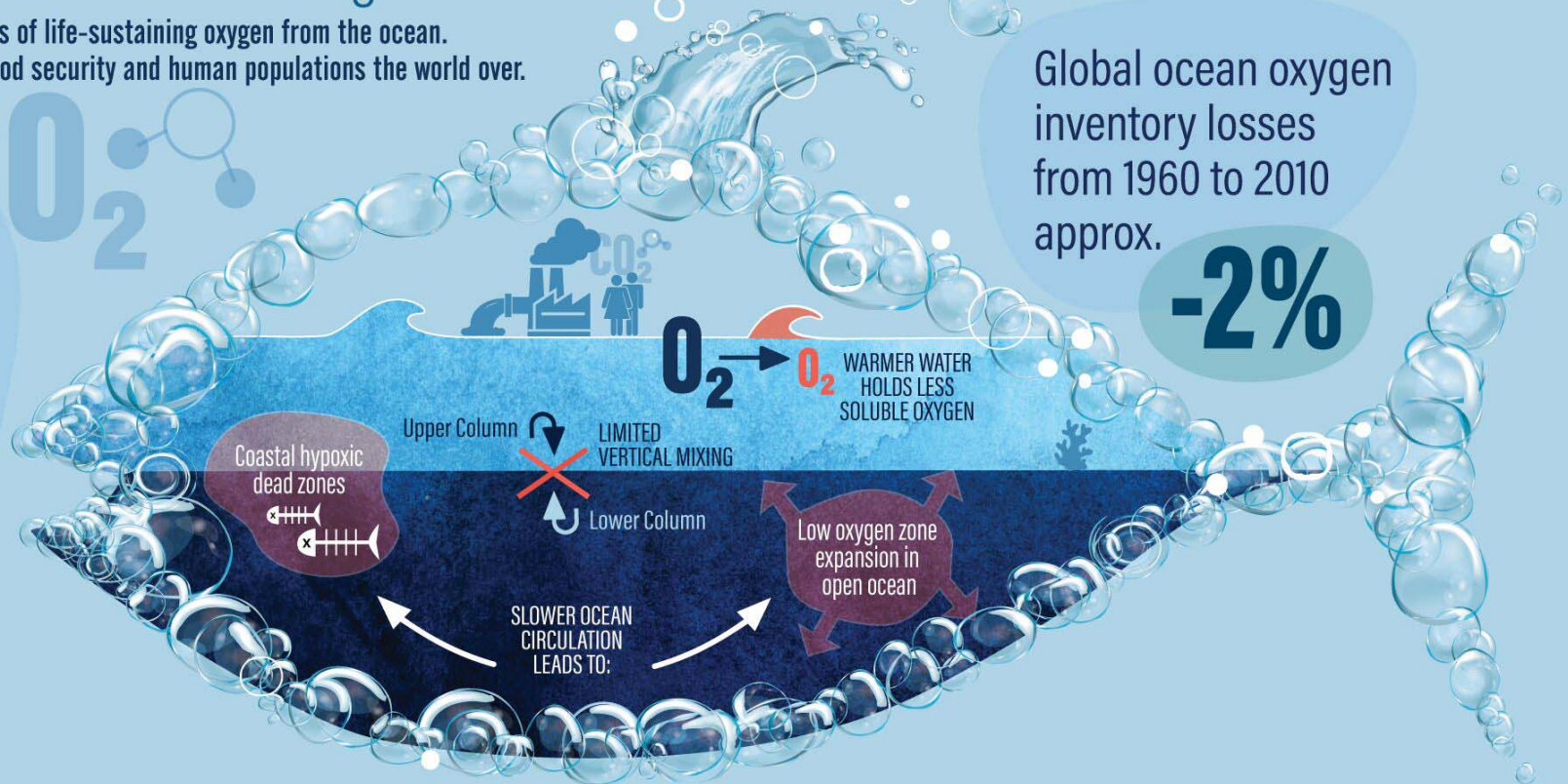
Increased separation of upper and lower water columns reduces circulation and oxygen exchange between atmosphere and water, intensifying stress on marine species throughout the ocean.



CULTURAL EUTROPHICATION.



Excess nutrient runoff from agriculture, sewage and fossil fuels are another key contributor to oxygen decline in coastal waters.



Global ocean oxygen inventory losses from 1960 to 2010 approx.

-2%