Climate Change Multiplies Existing Threats to the Ocean

Fisheries provide three billion people with around 20% of their average intake of animal protein, and 400 million depend critically on fish for food. Projected climate change impacts on fisheries and aquaculture are negative on a global scale; severely so in many regions. ey Findings from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5) For more information please visit cisl.cam.ac.uk/ipcc

The Ocean's Chemistry is Changing at an Unprecedented Rate

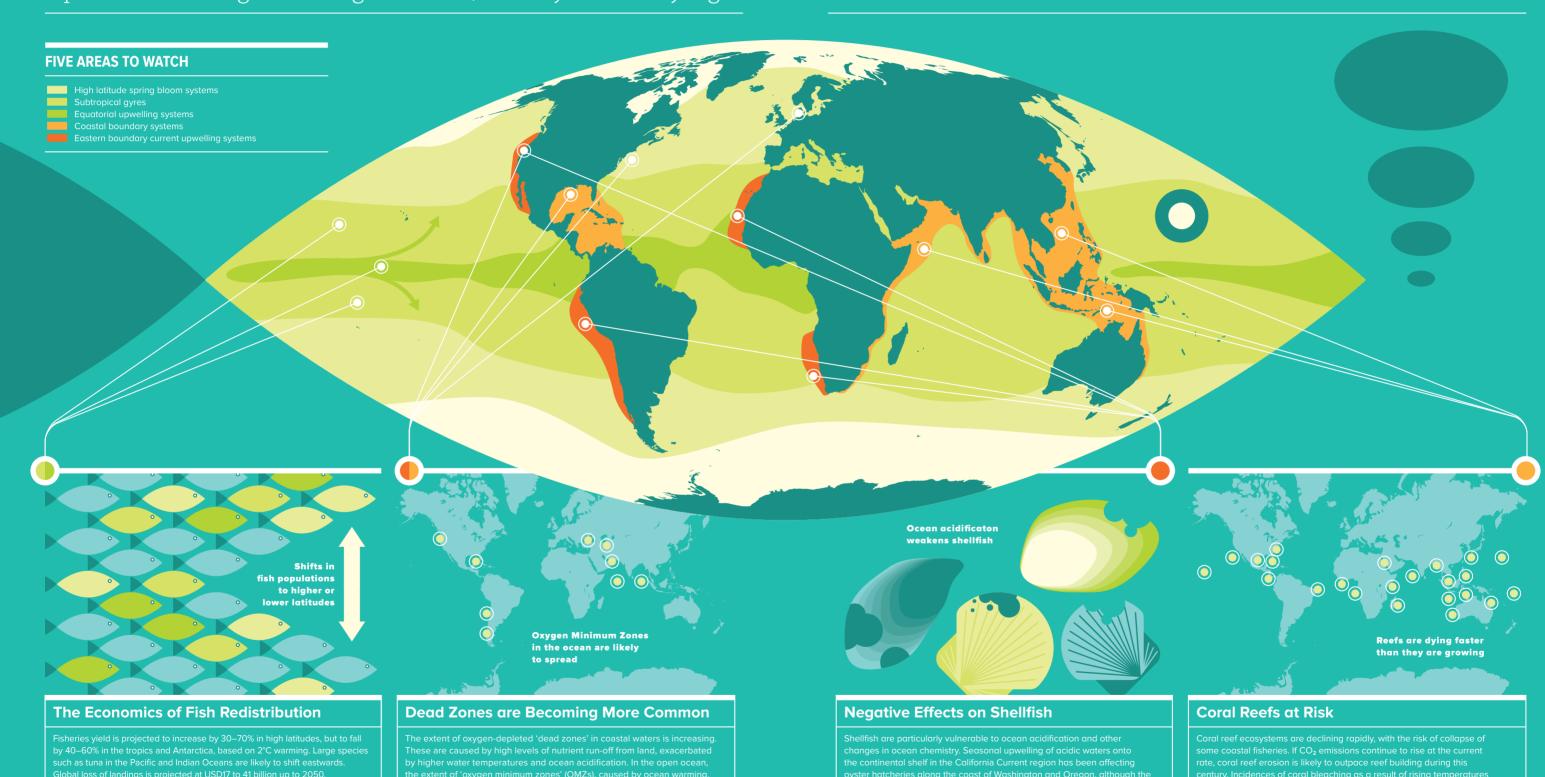
OPTIONS Reduce non-climate change-related stressors. Policies aimed at reducing fossil fuel use across economies will affect the seafood industry.

Ocean acidification – the result of enhanced carbon dioxide uptake from the air – puts commercially important fish and shellfish at risk. The ocean's pH has already fallen by 0.1 since pre-industrial times, roughly corresponding to a 30% increase in acidity. If CO, emissions continue to rise at the current rate, a further pH drop of 0.3 by 2100 is projected.

Change in ocean surface pH by 2100 under the 'business-as-usual' scenario

OPTIONS Create new habitats such as artificial reefs to





OPTIONS Reassess and reinforce marine protected areas.