

Ocean Acidification in the Gulf of Alaska

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Arctic Research
Center





CO₂ seaglider helps fill data gaps



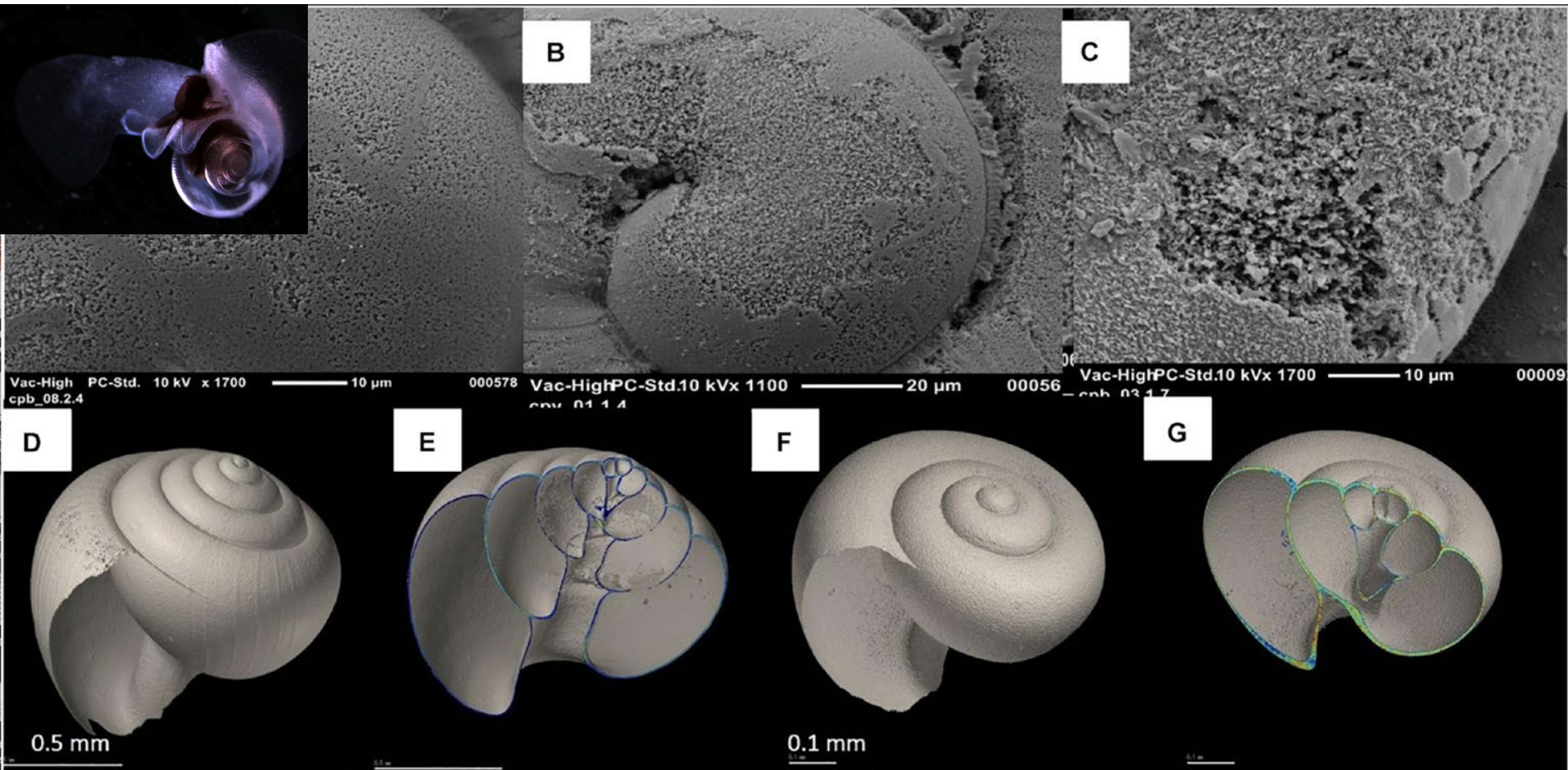


Why do we worry about ocean acidification in the Gulf of Alaska?

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OA causes shells to dissolve

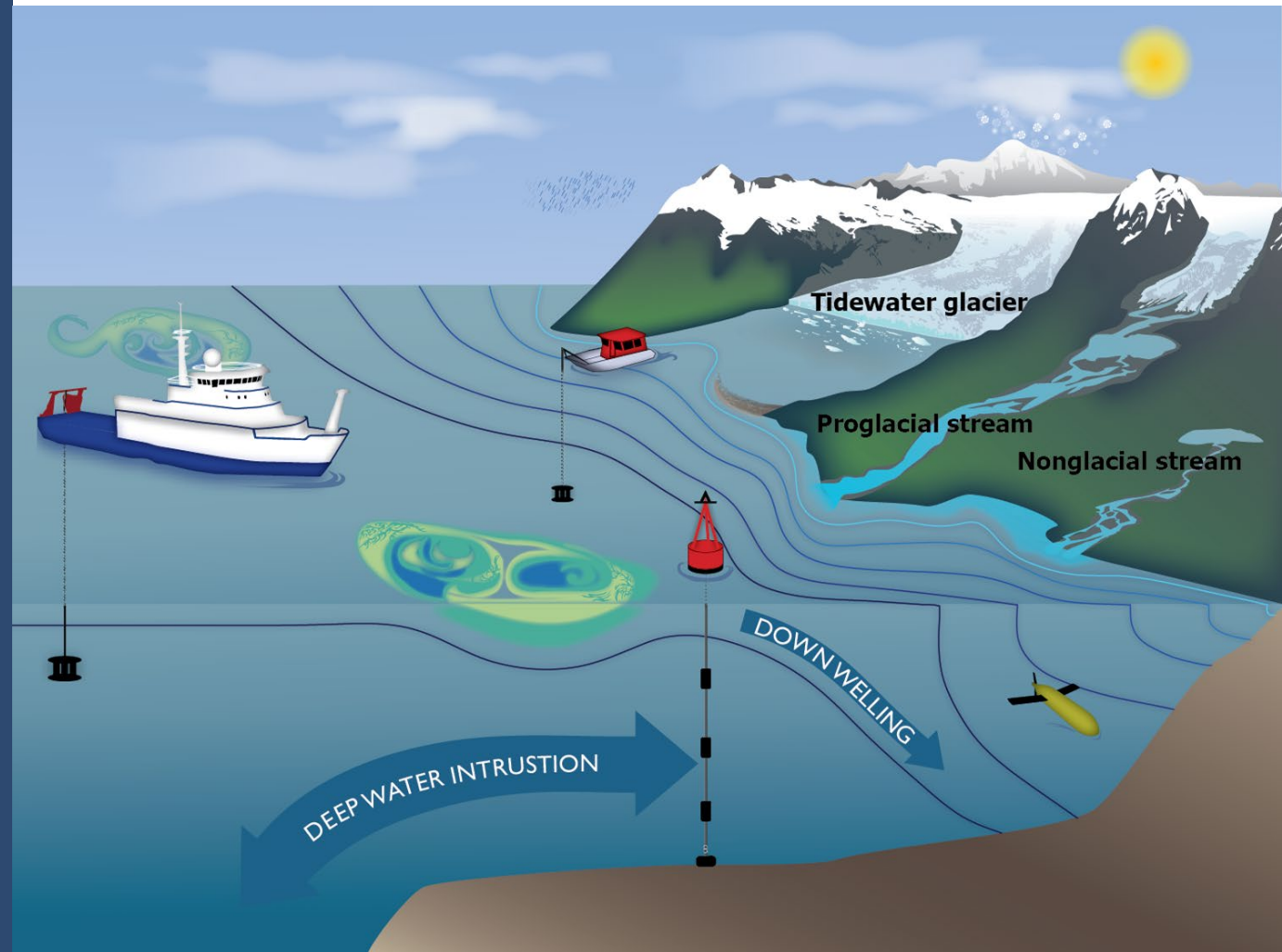


Important
food
source for
juvenile
and adult
salmon

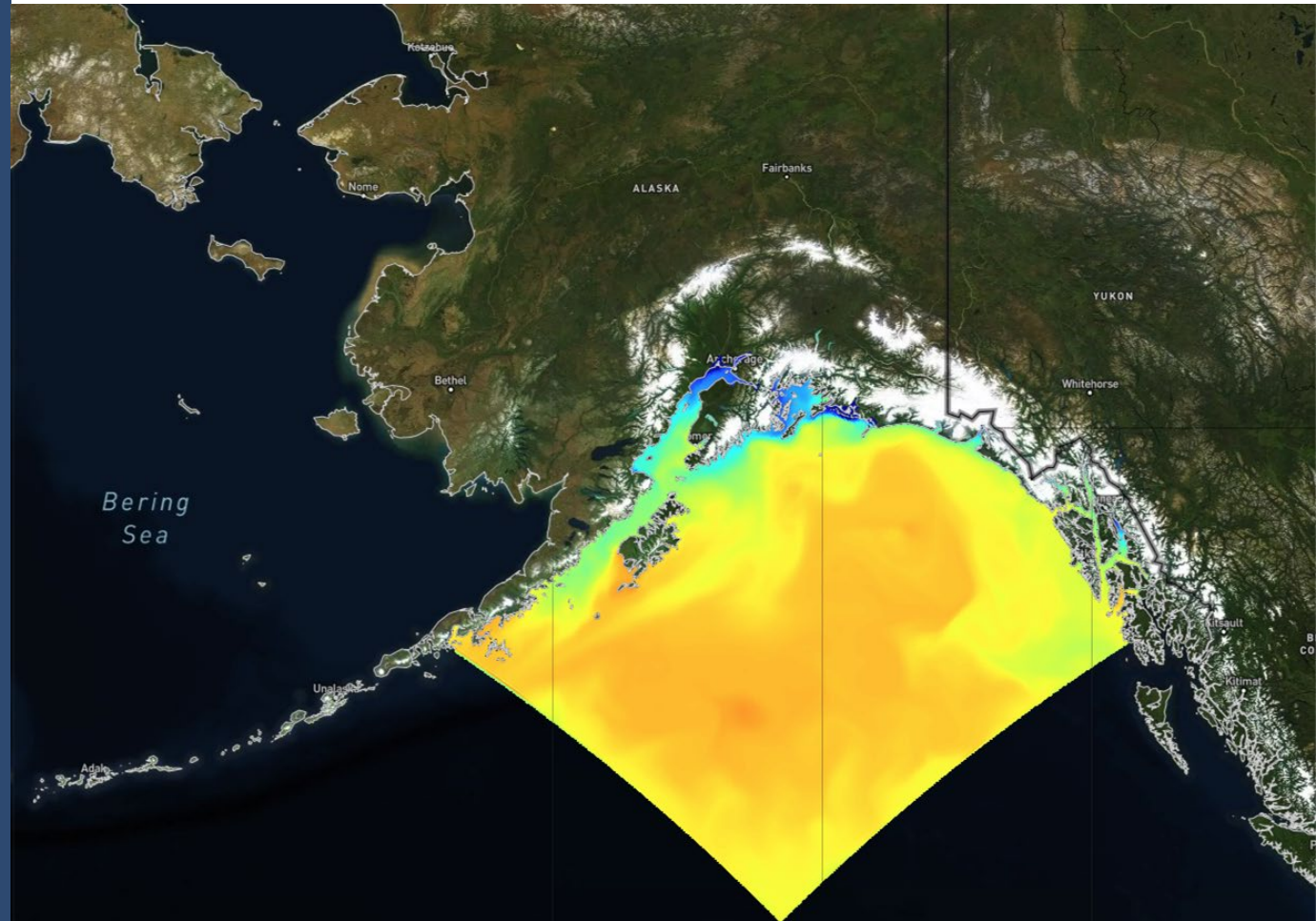


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Ocean chemistry varies naturally

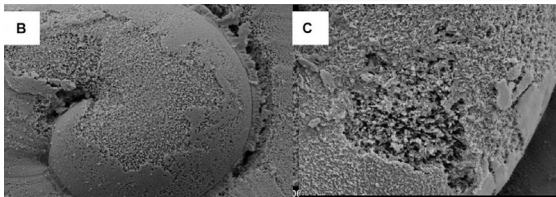
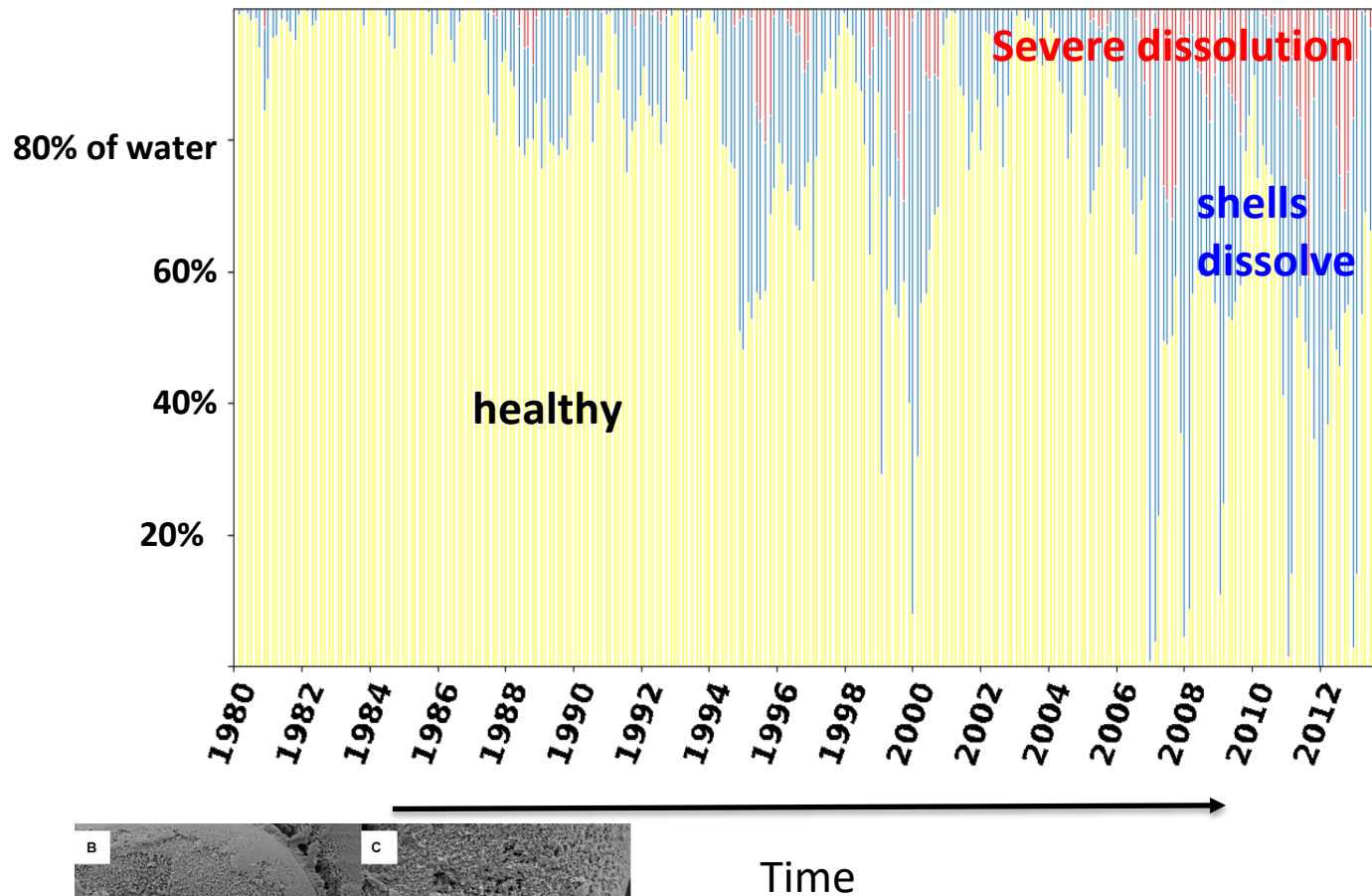


Regional ocean model to study processes

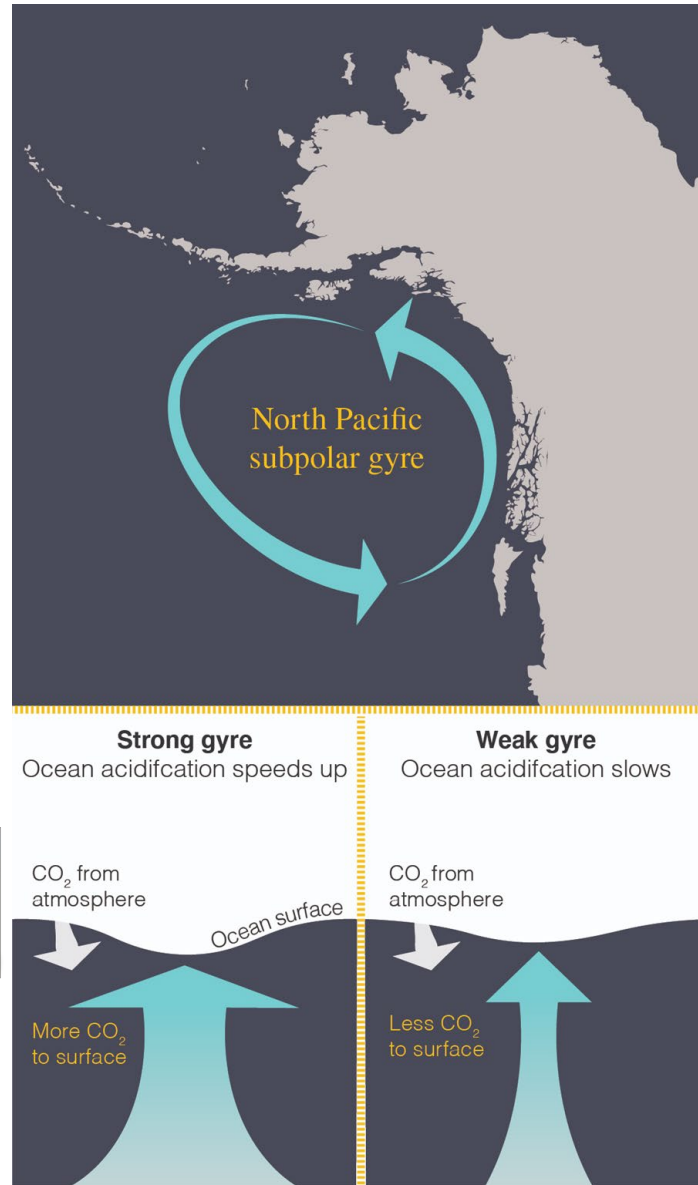
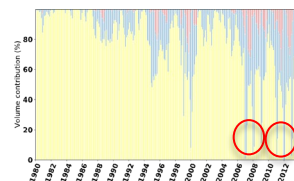




Healthy habitat is disappearing



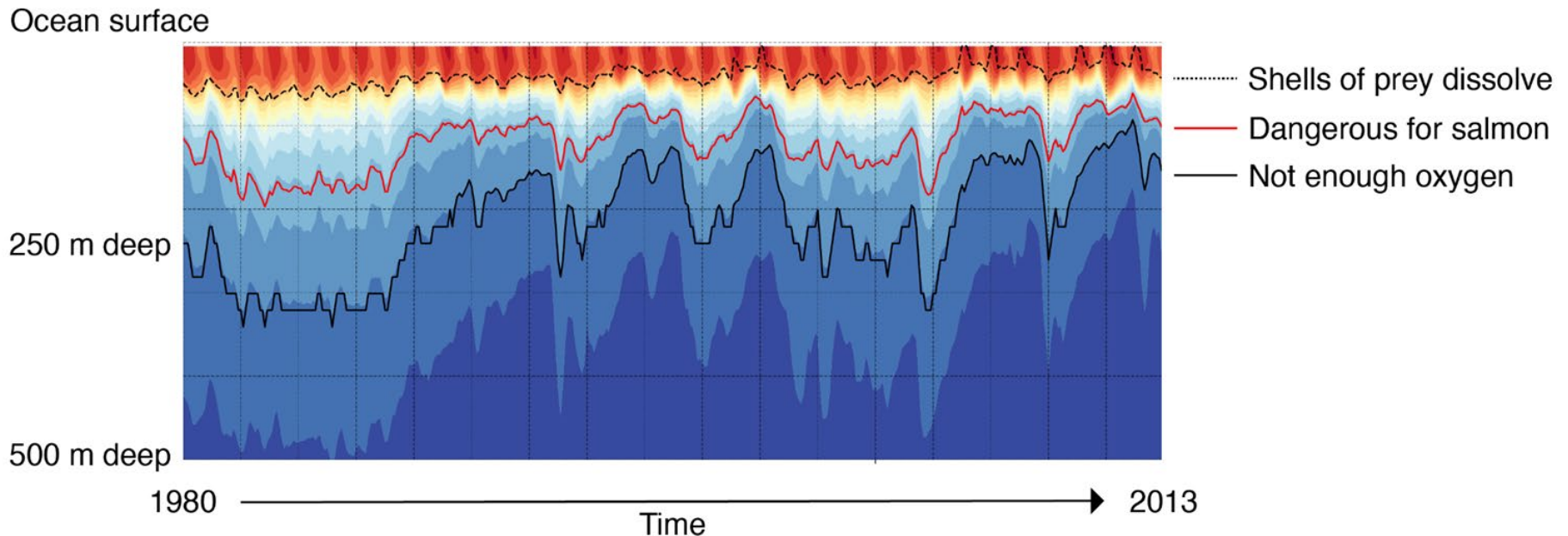
OA and natural climate variability drive extreme events





Compound events:

- Salmon don't have enough oxygen to thrive
- Their prey can't build & maintain their shells





Longer, more
intense & frequent
EXTREME EVENTS
jeopardize the
ecosystems

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