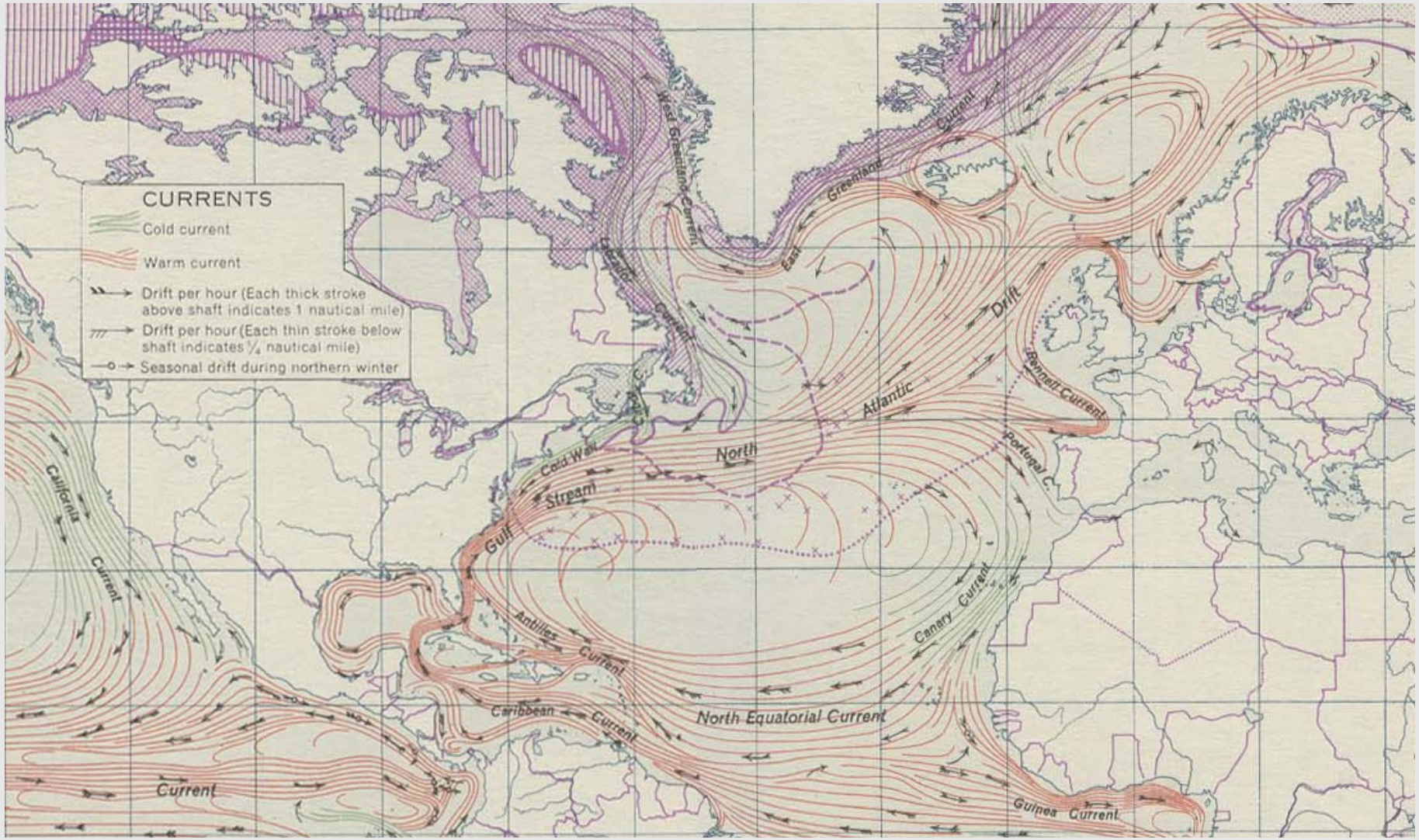
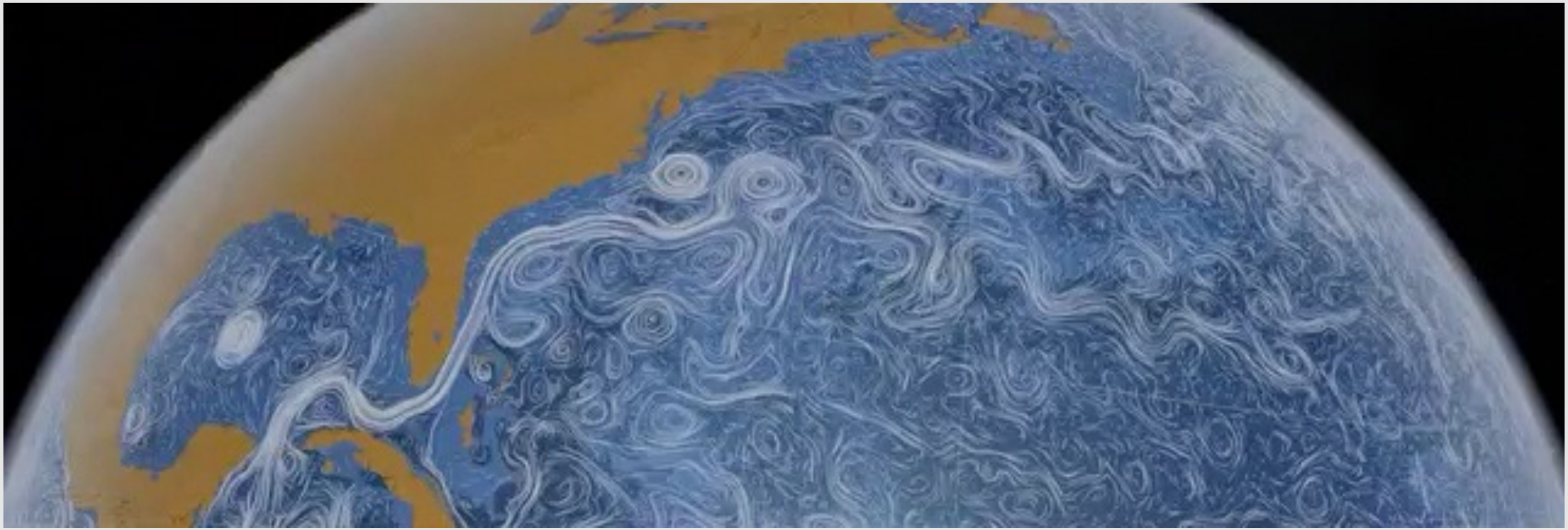
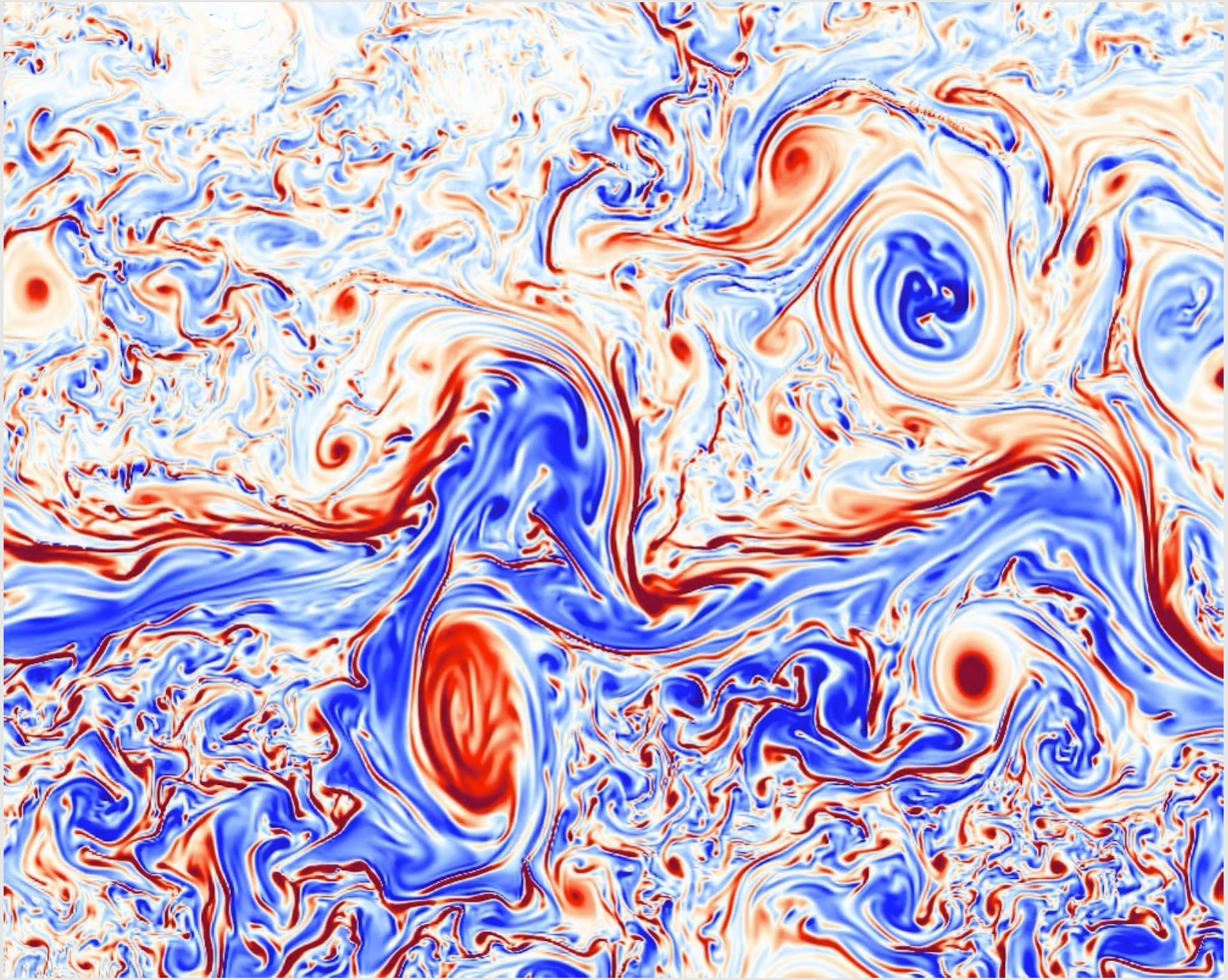

CURRENTS
Cold current
Warm current
Drift per hour (Each thick stroke above shaft indicates 1 nautical mile)
Drift per hour (Each thin stroke below shaft indicates ¼ nautical mile)
Seasonal drift during northern winter
West Greenland Current
Greenland
East
Current
Labrador
Current
Drift
Bennett Current
Atlantic
North
Cold Wall
Stream
Gulf
Portugal C.
California
Current
Antilles
Current
Canary Current
Caribbean
Current
North Equatorial Current
Current
Guinea Current

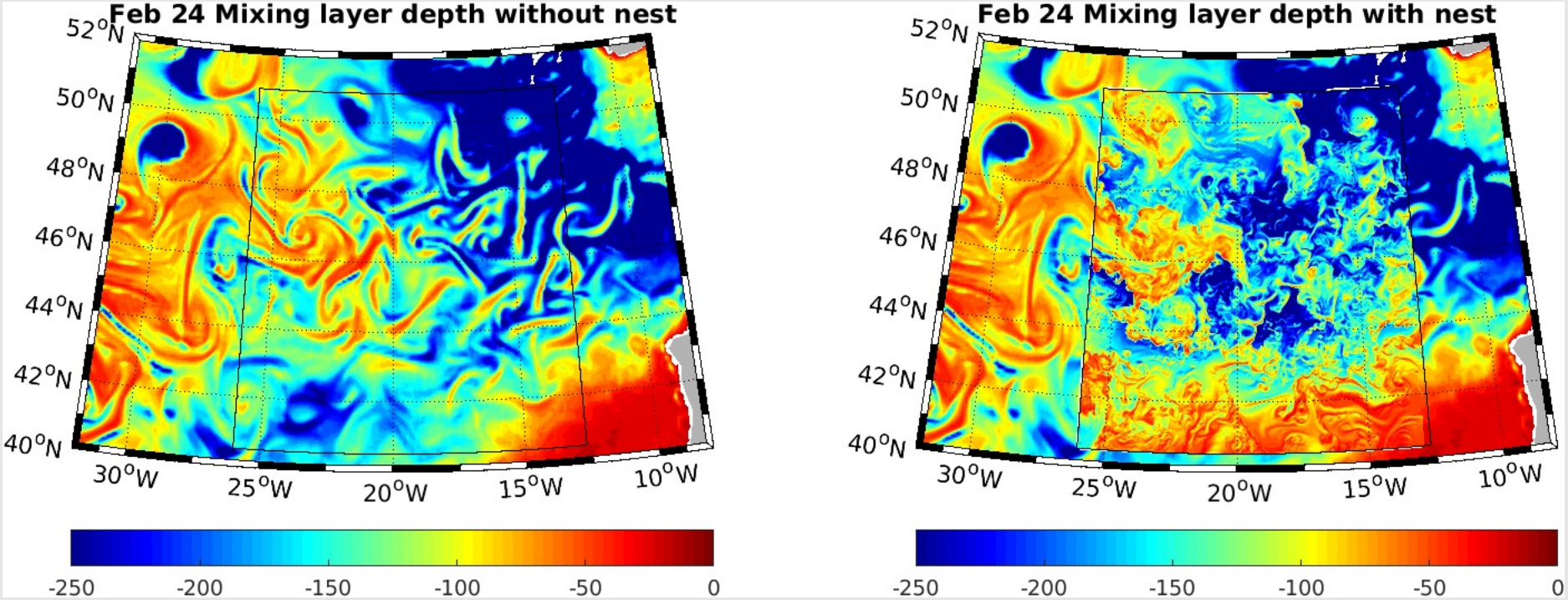


NASA Perpetual Ocean



Jon Gula

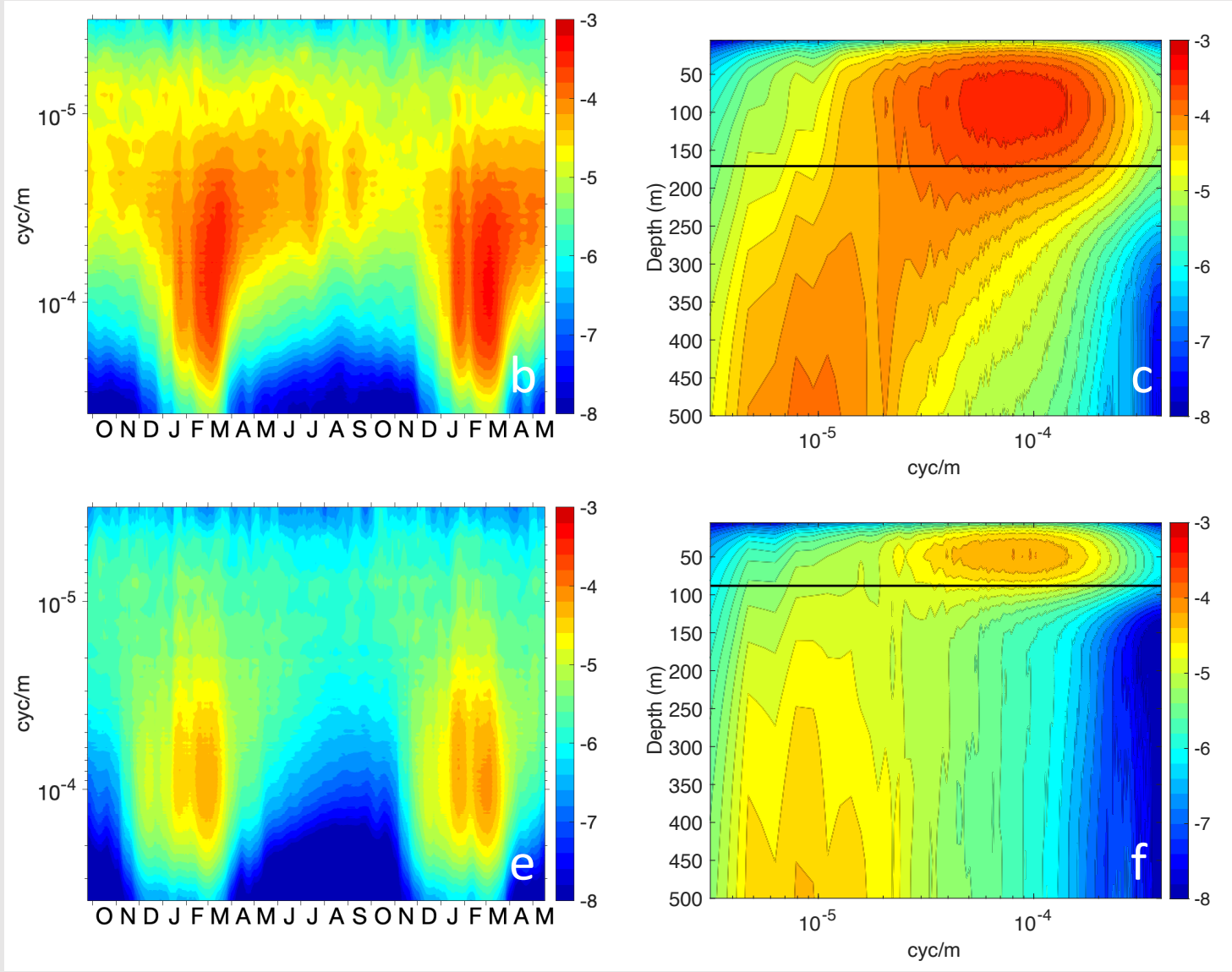
Depth of surface mixed layer: Effect of increased resolution



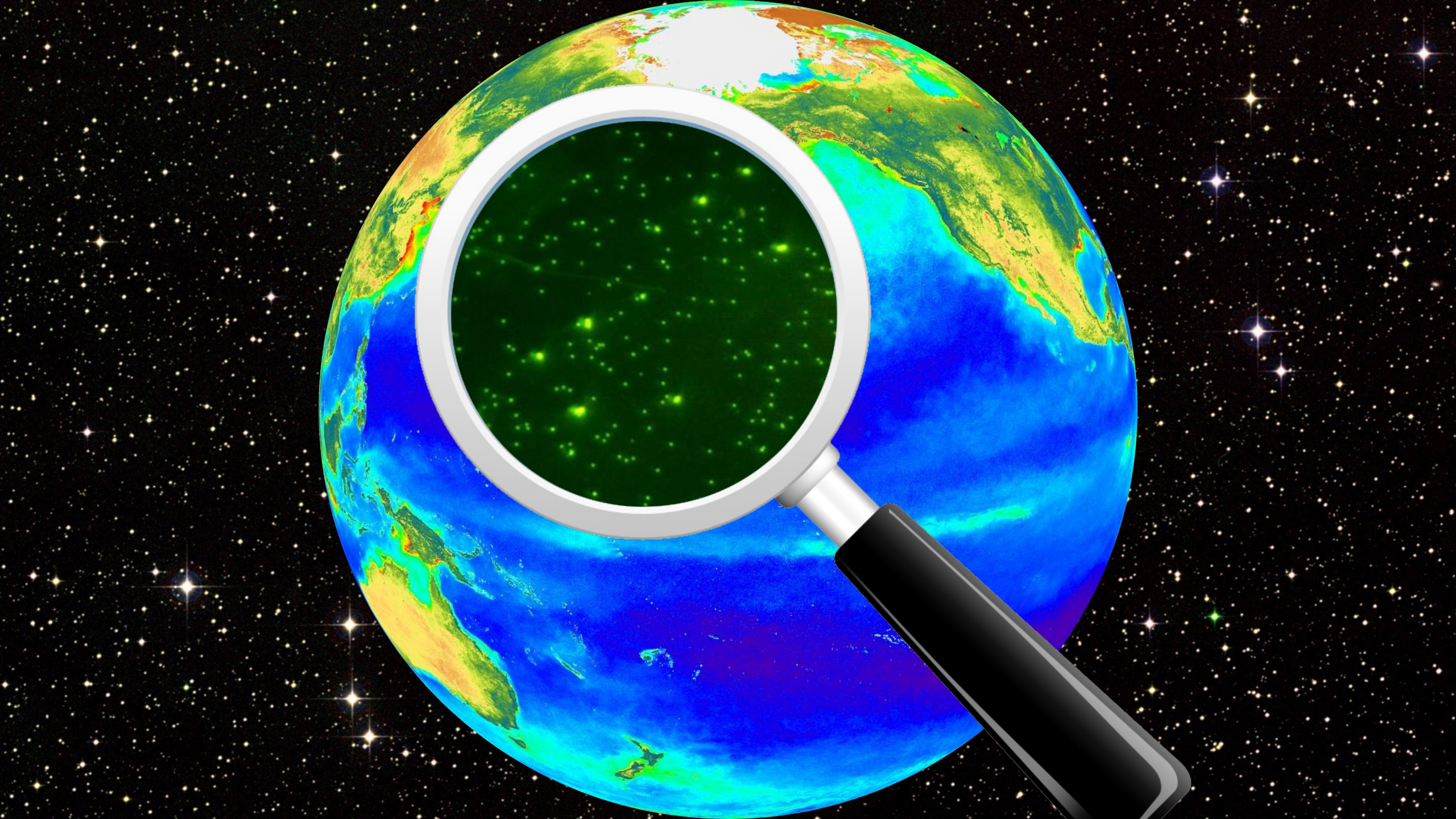
Small scale flow features induce a large vertical flux of properties which decreases with global warming

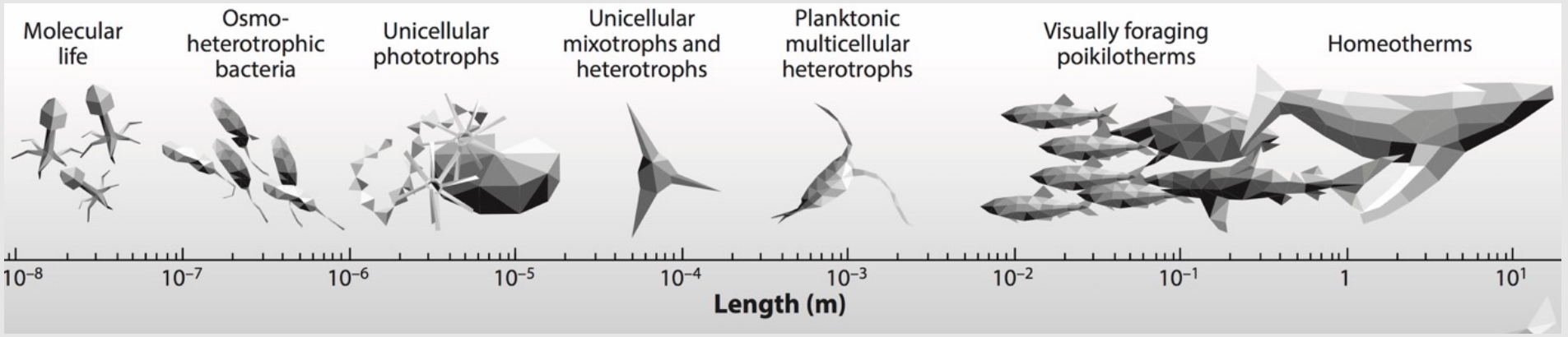
Buoyancy flux

2 km

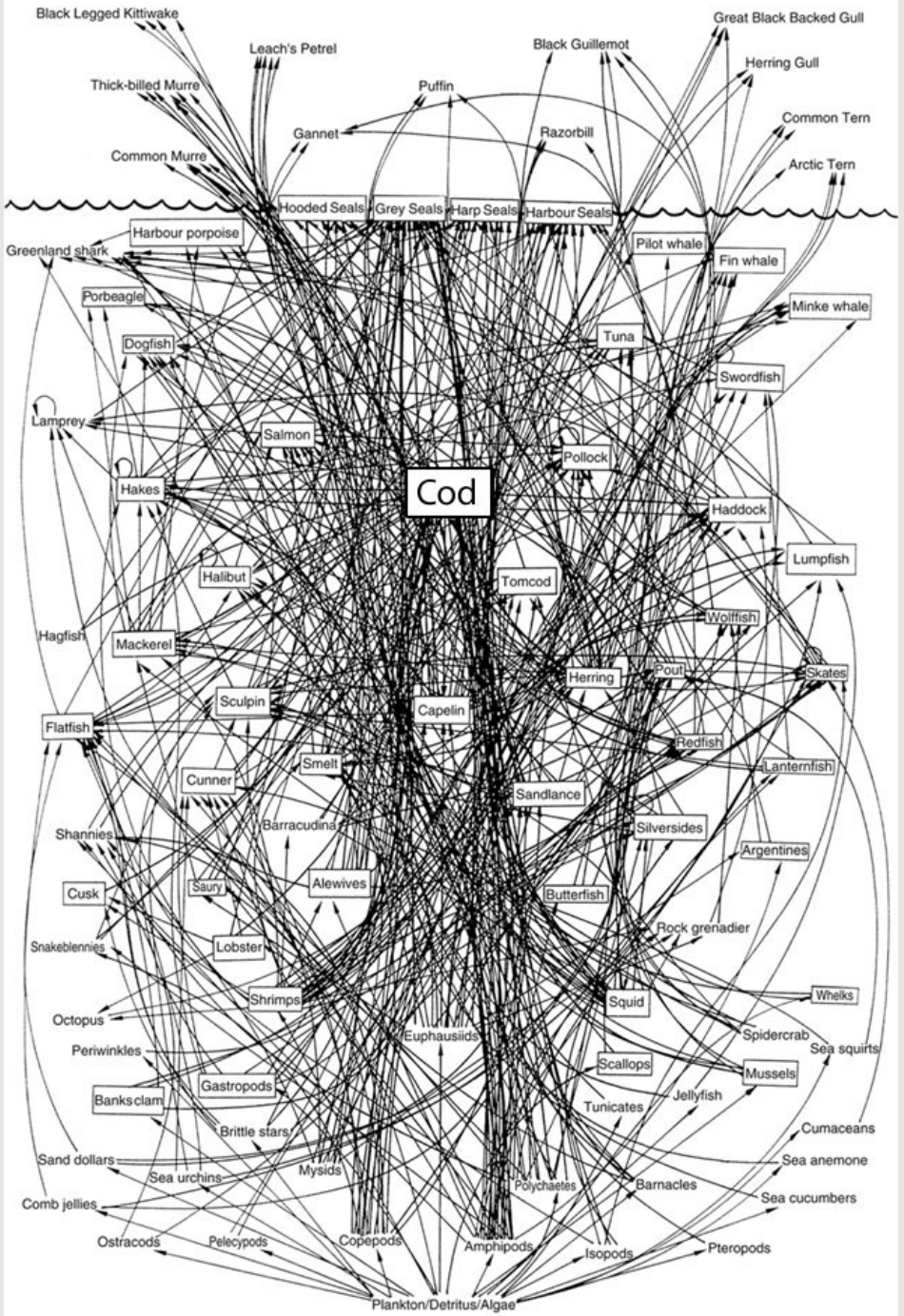


Warming

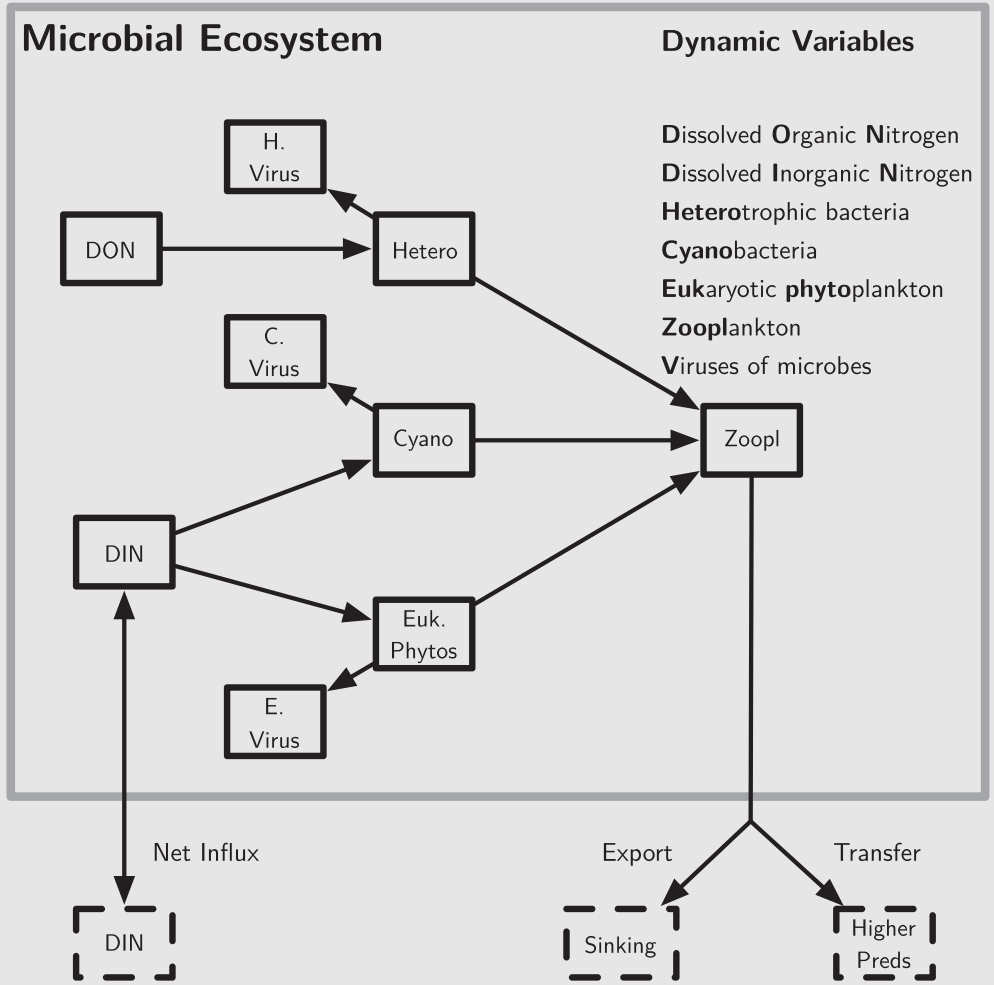




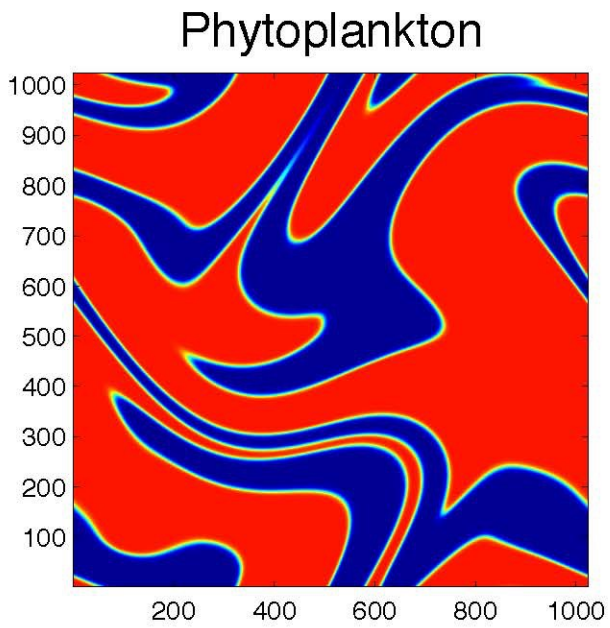
Ken Haste Andersen

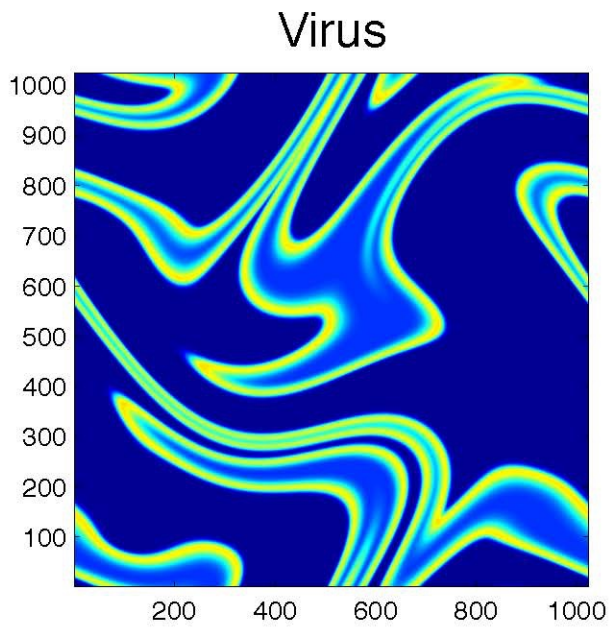


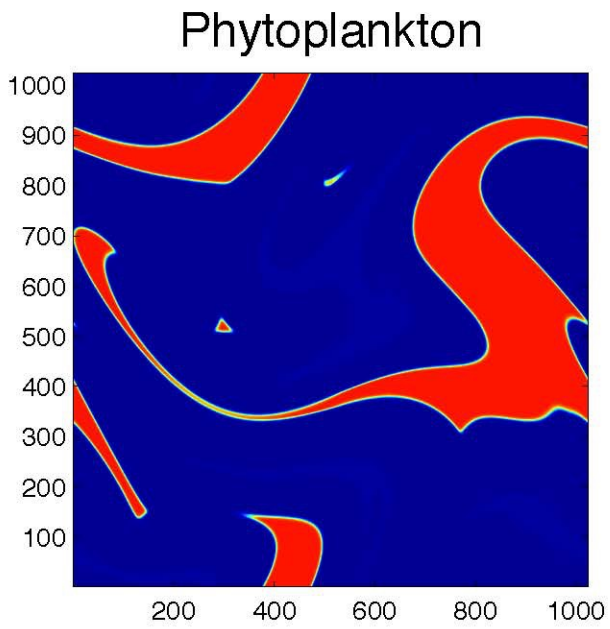
A simplified food web for the Northwest Atlantic. © IMMA

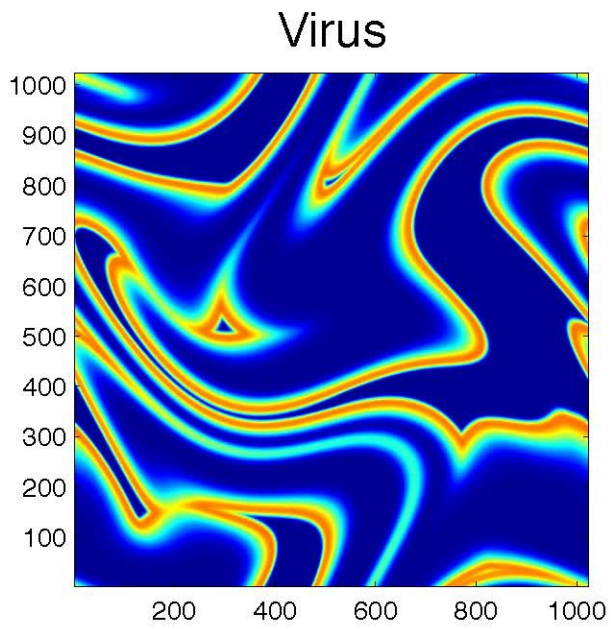


Weitz et al, 2015



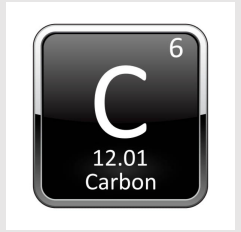




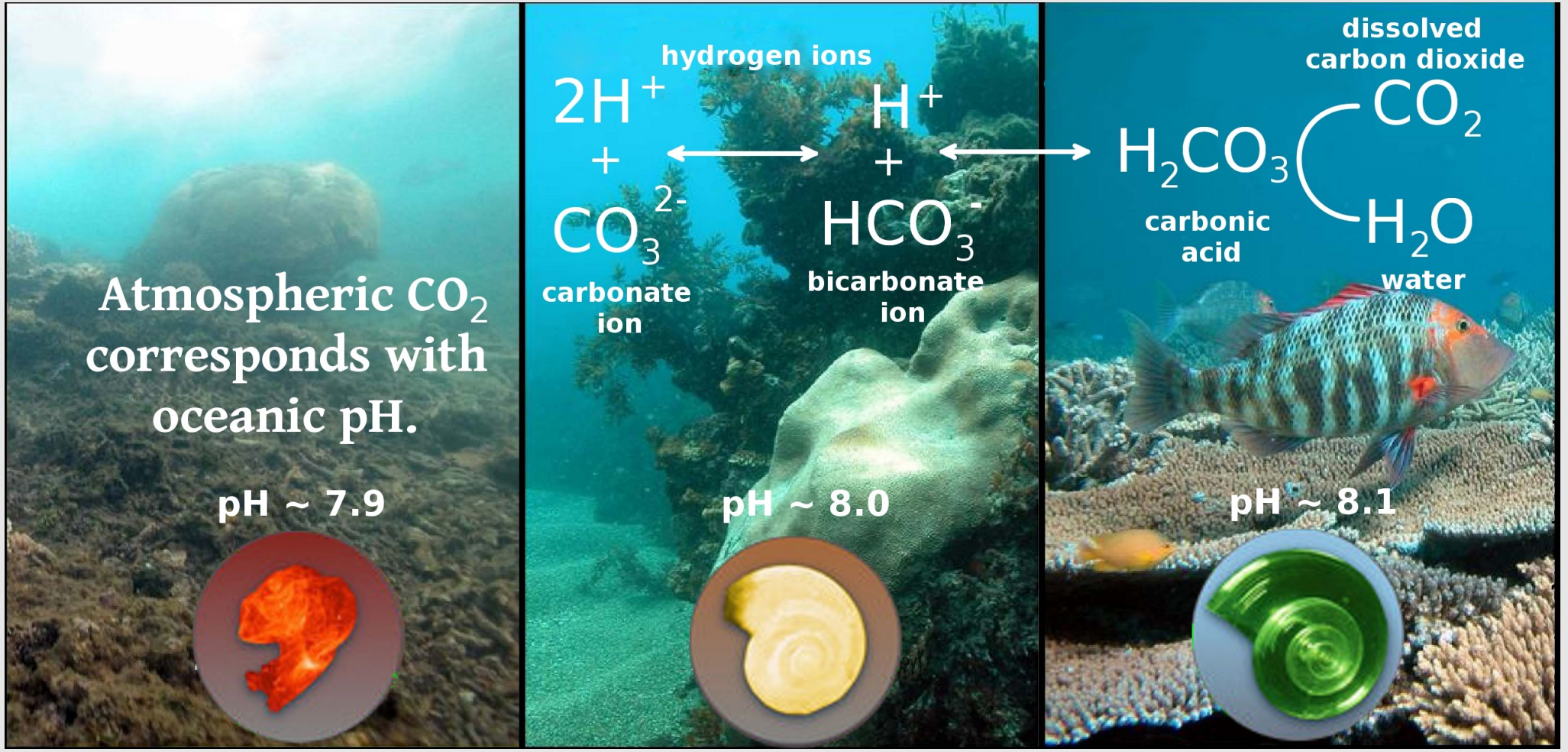


Stirring and Mixing of Interacting Populations

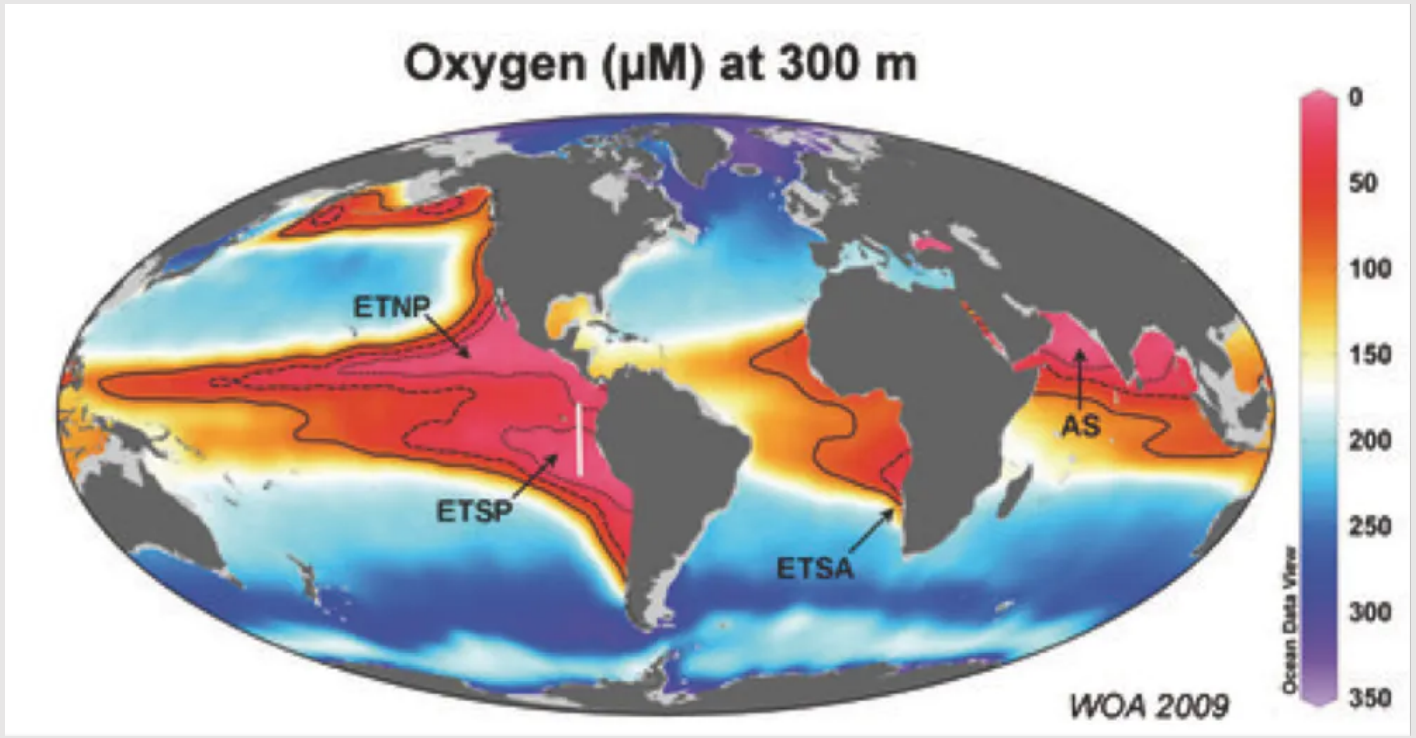
Increased infection rate



Ocean Acidification



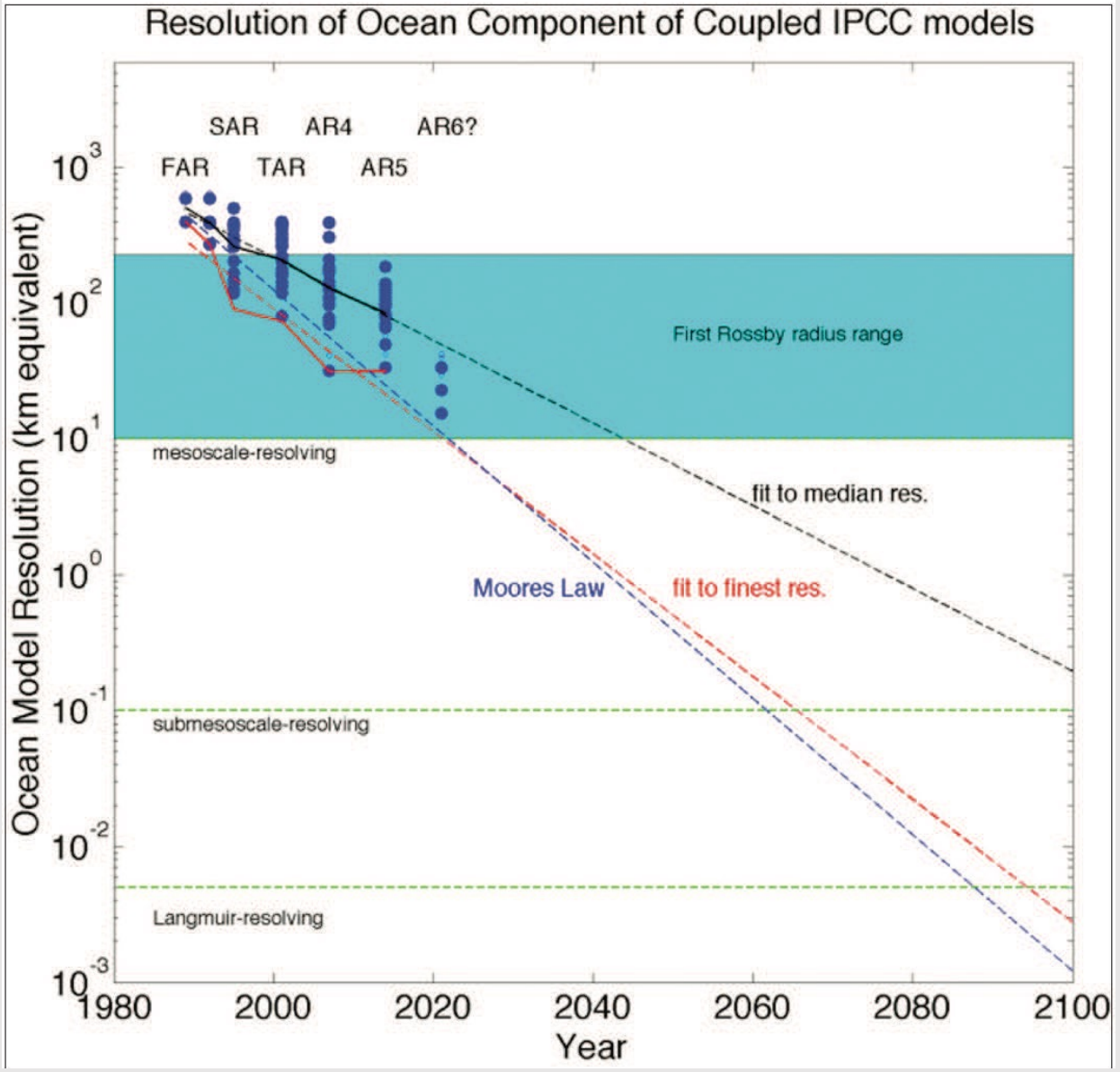
UN Atlas of the Oceans



Ocean ‘dead zones’ are spreading – and that spells disaster for fish

THE CONVERSATION

Academic rigour, journalistic flair



Fox Kemper et al

- How much physical structure needs to be resolved to assess the change to the physical environment?

- How much ecosystem and physical complexity needs to be included to capture changes to the biogeochemical system?