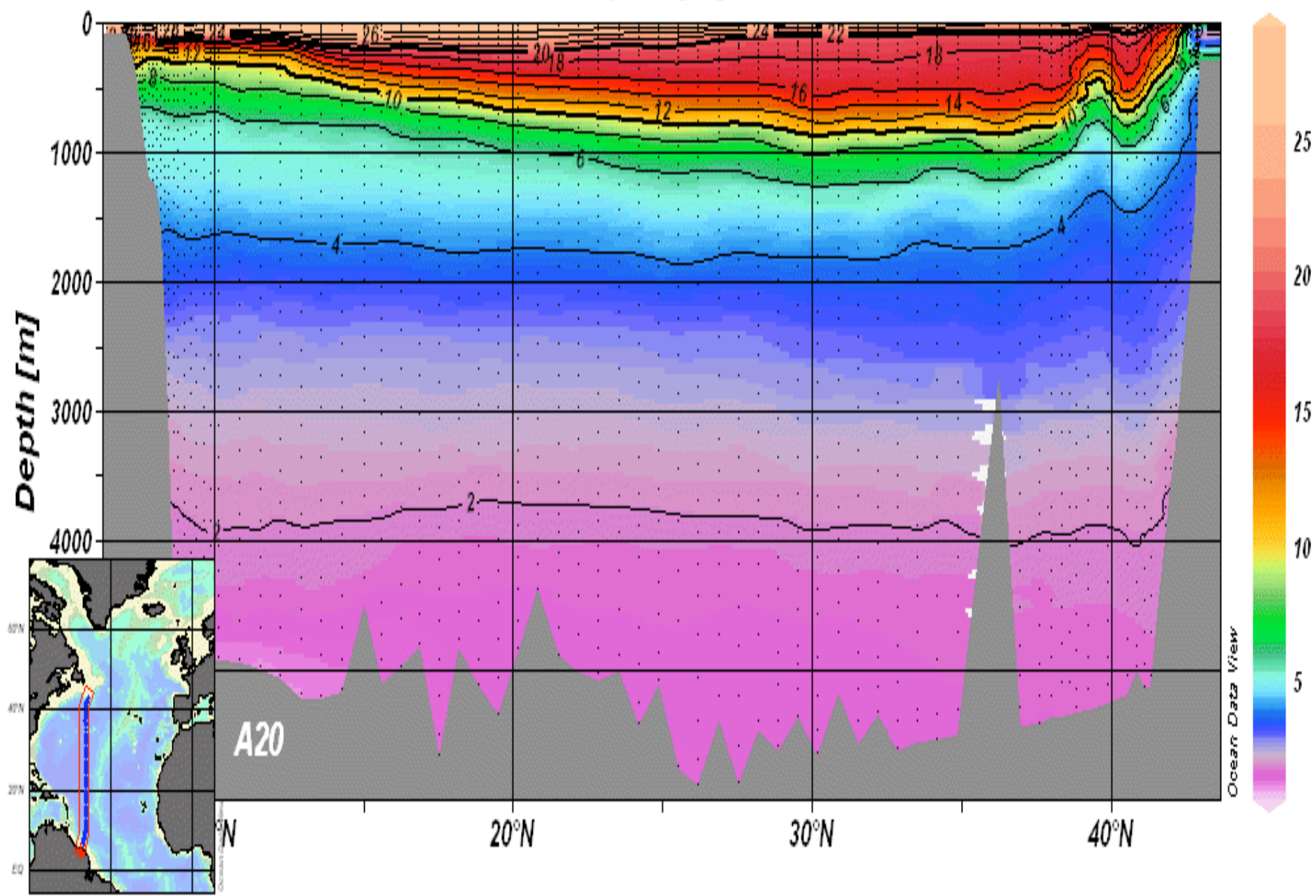


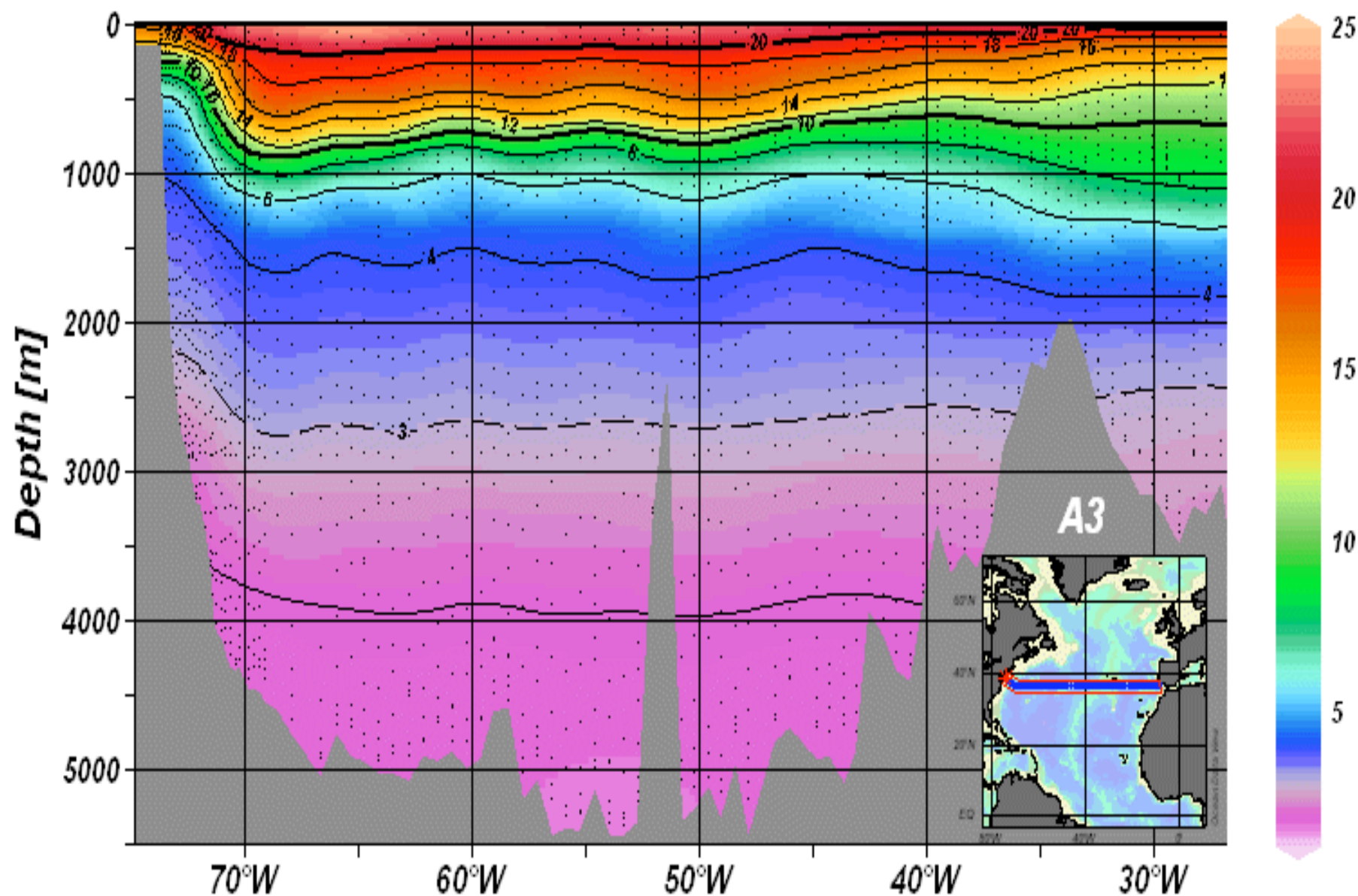
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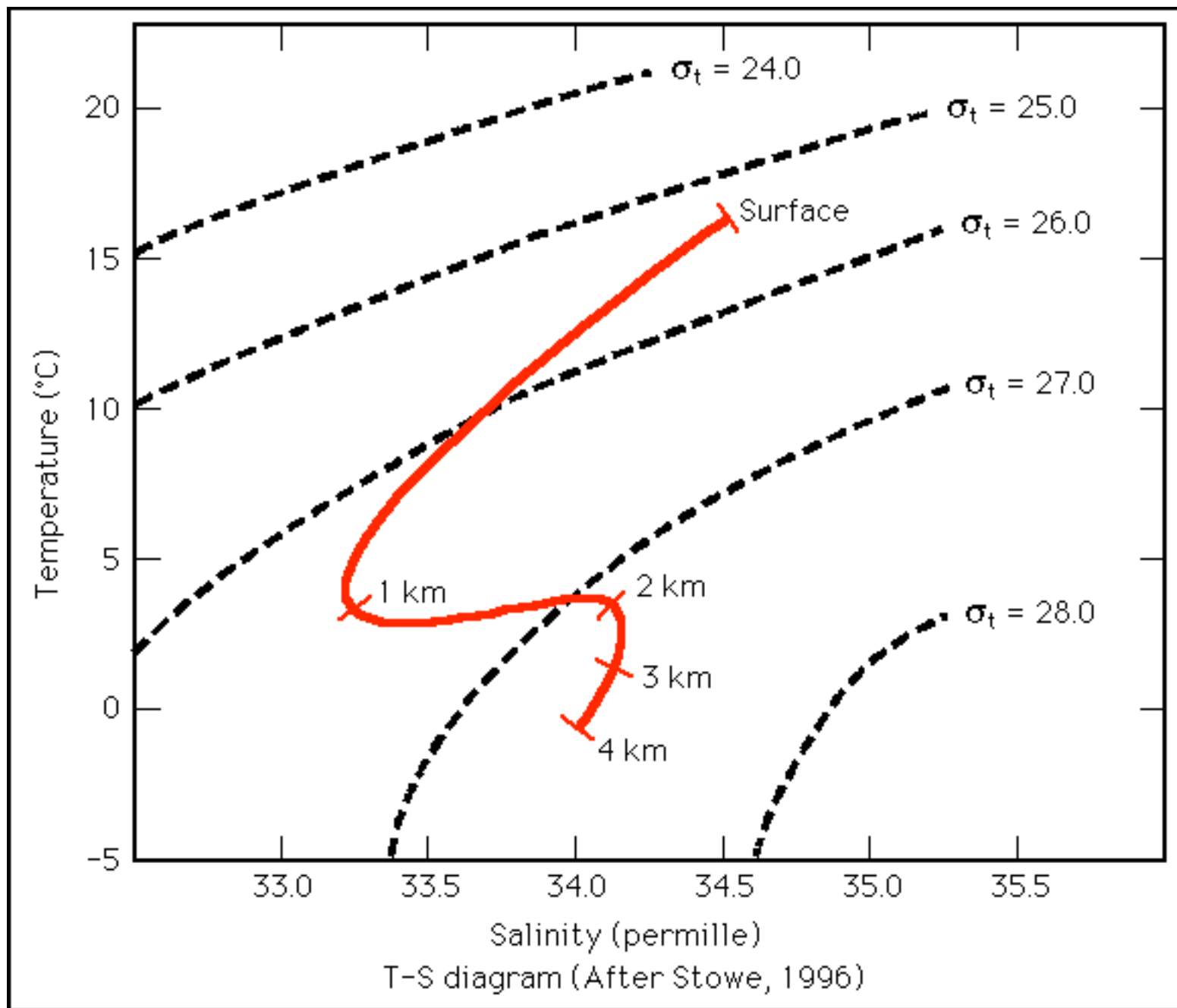
$T_{\text{pot-0}} [^{\circ}\text{C}]$

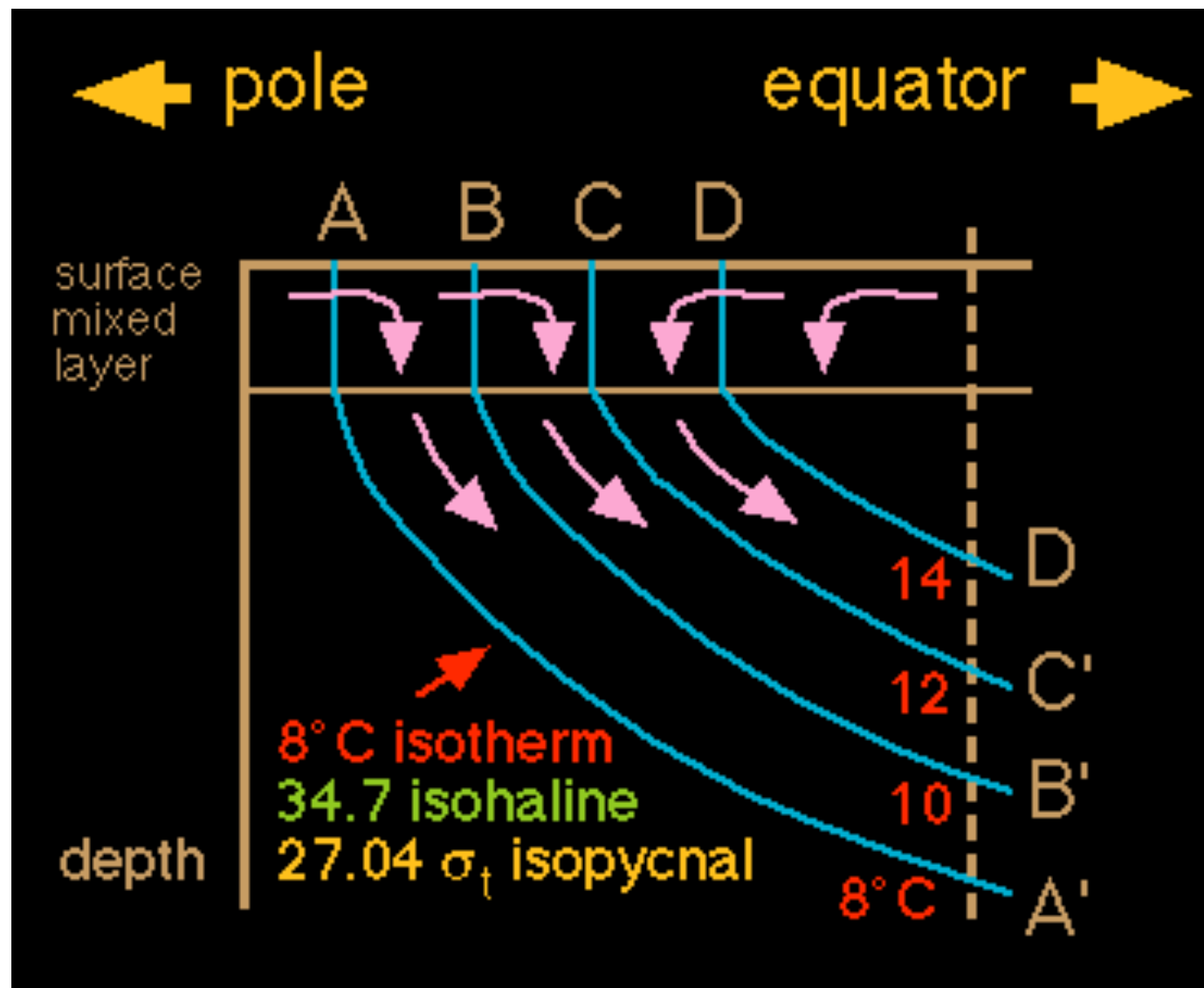


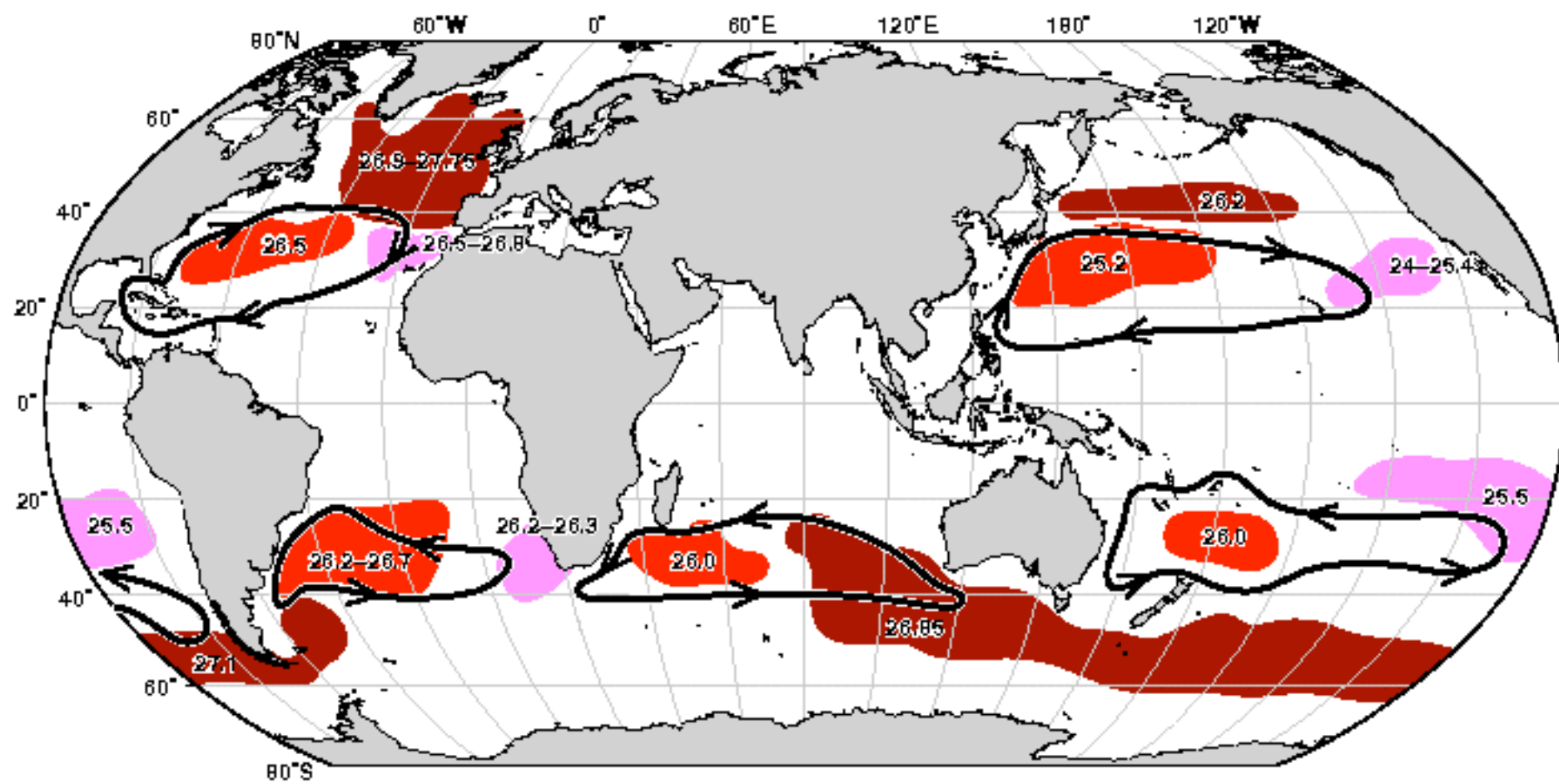
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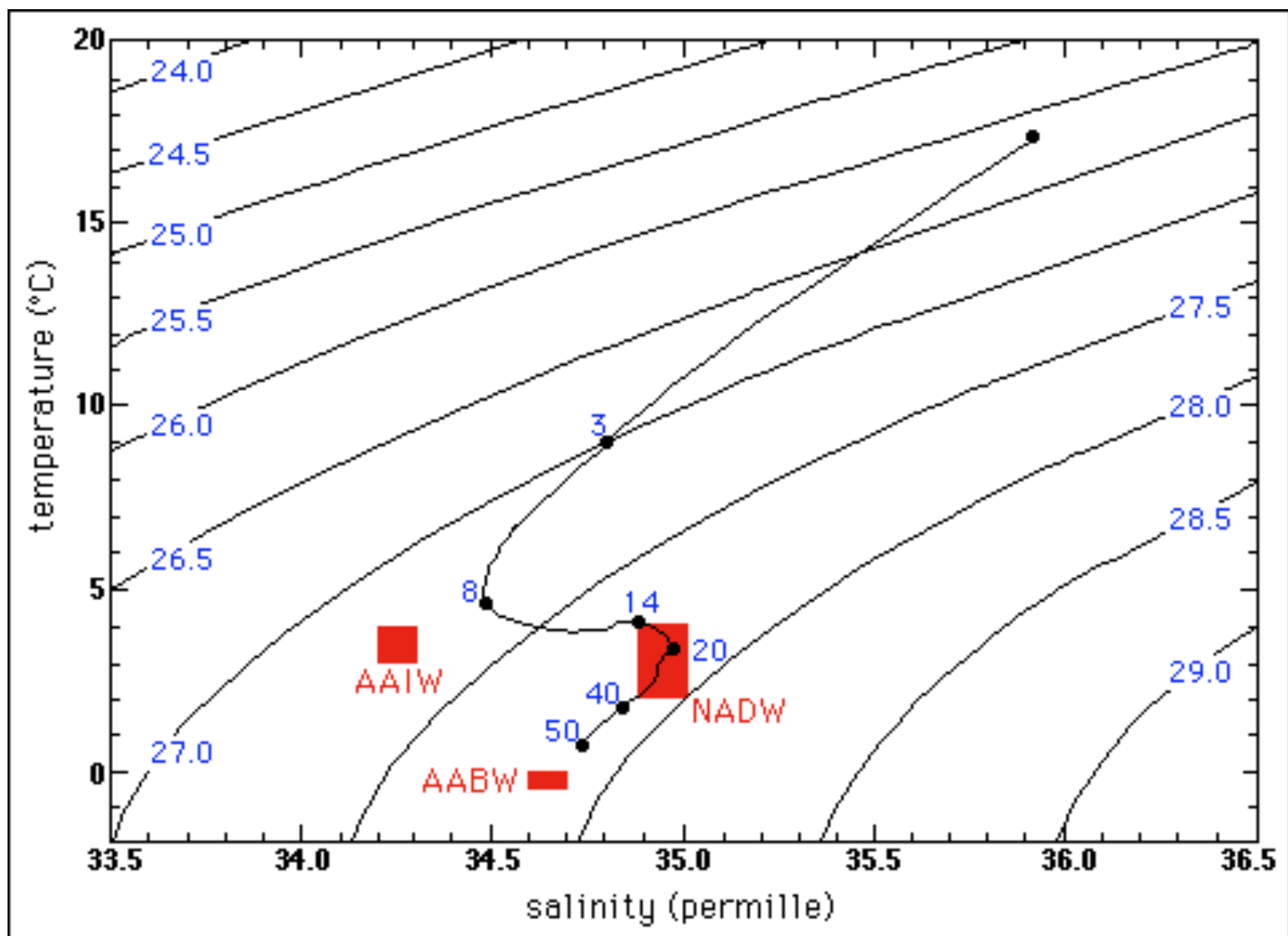
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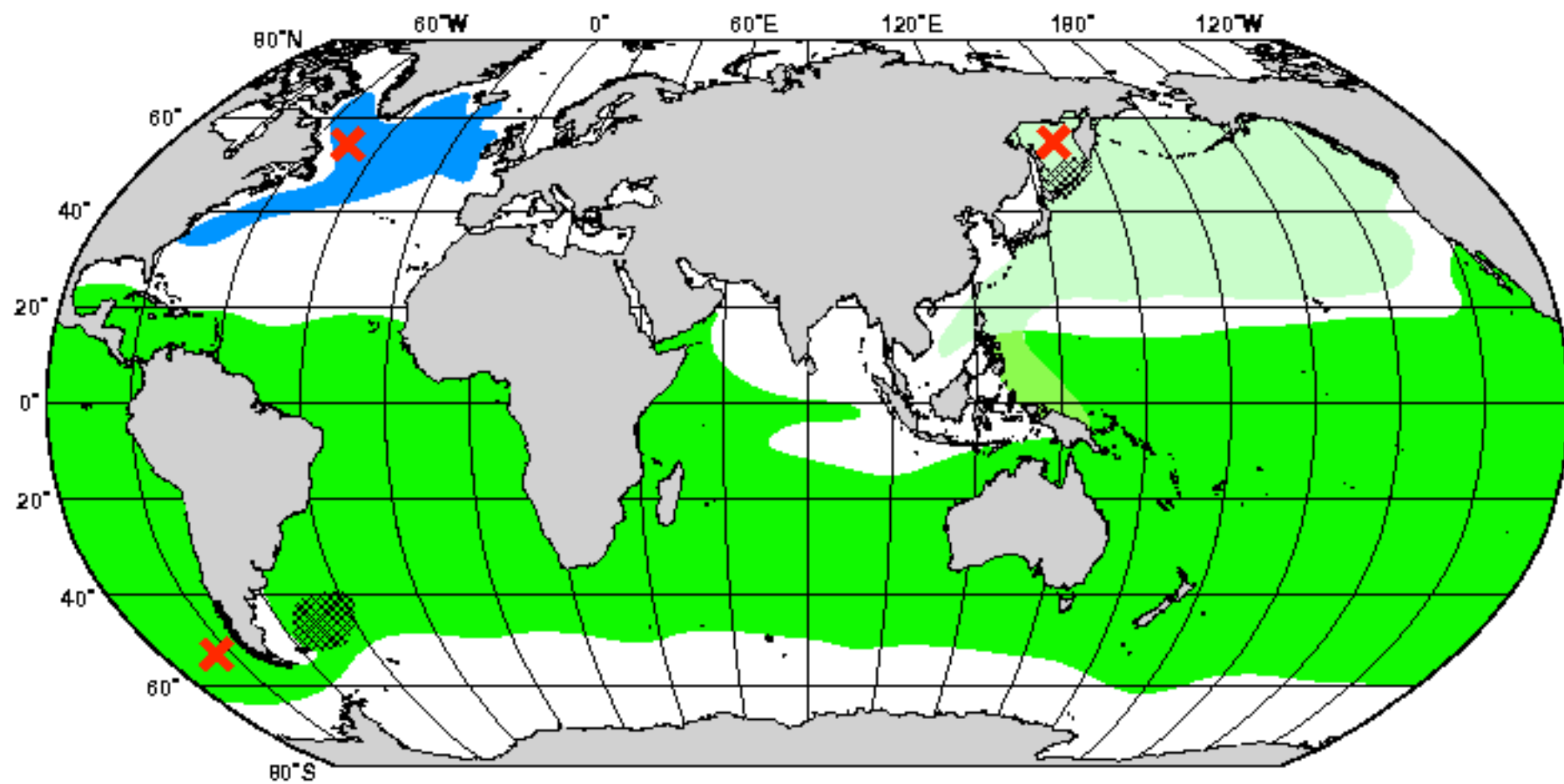




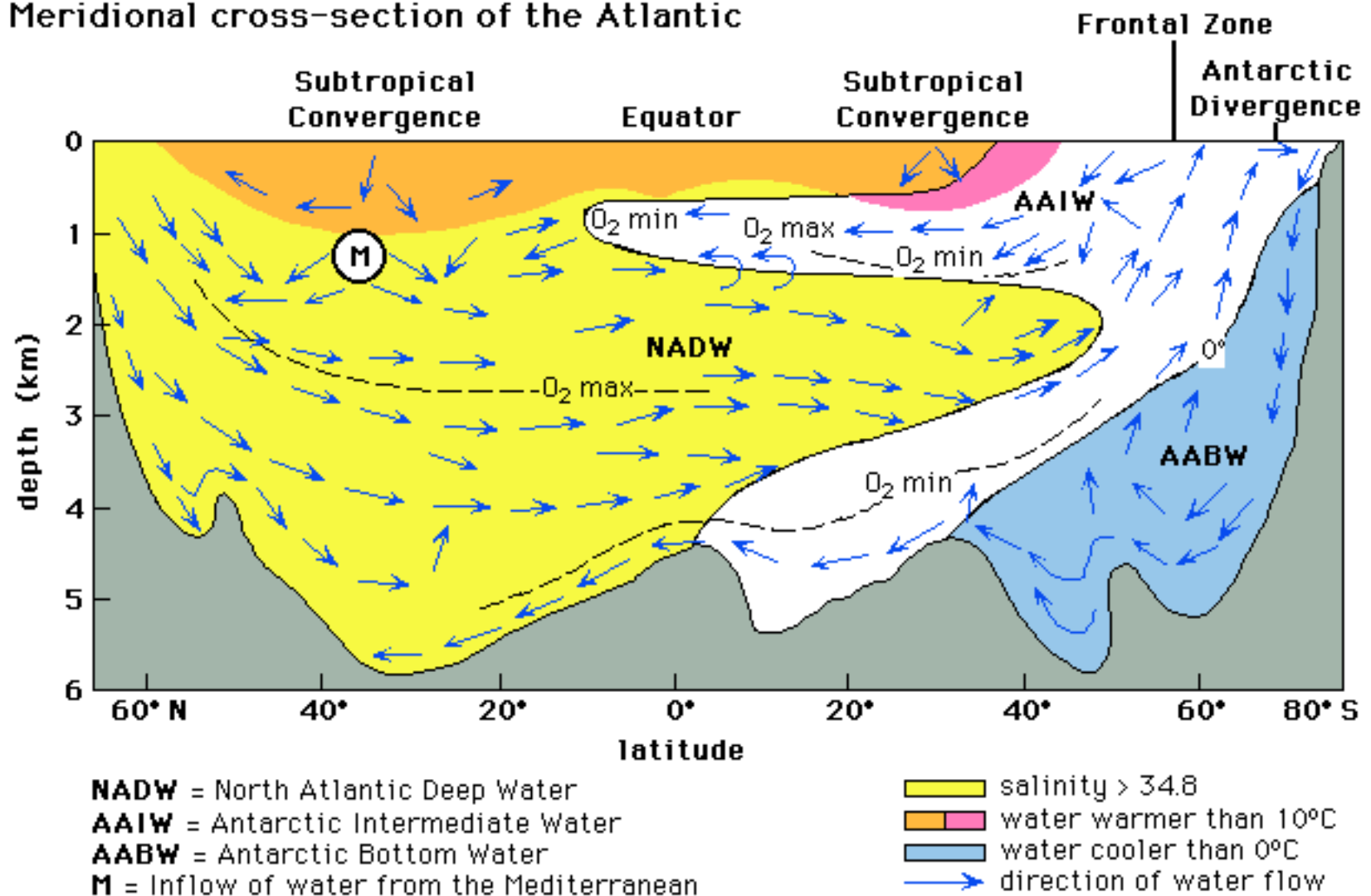






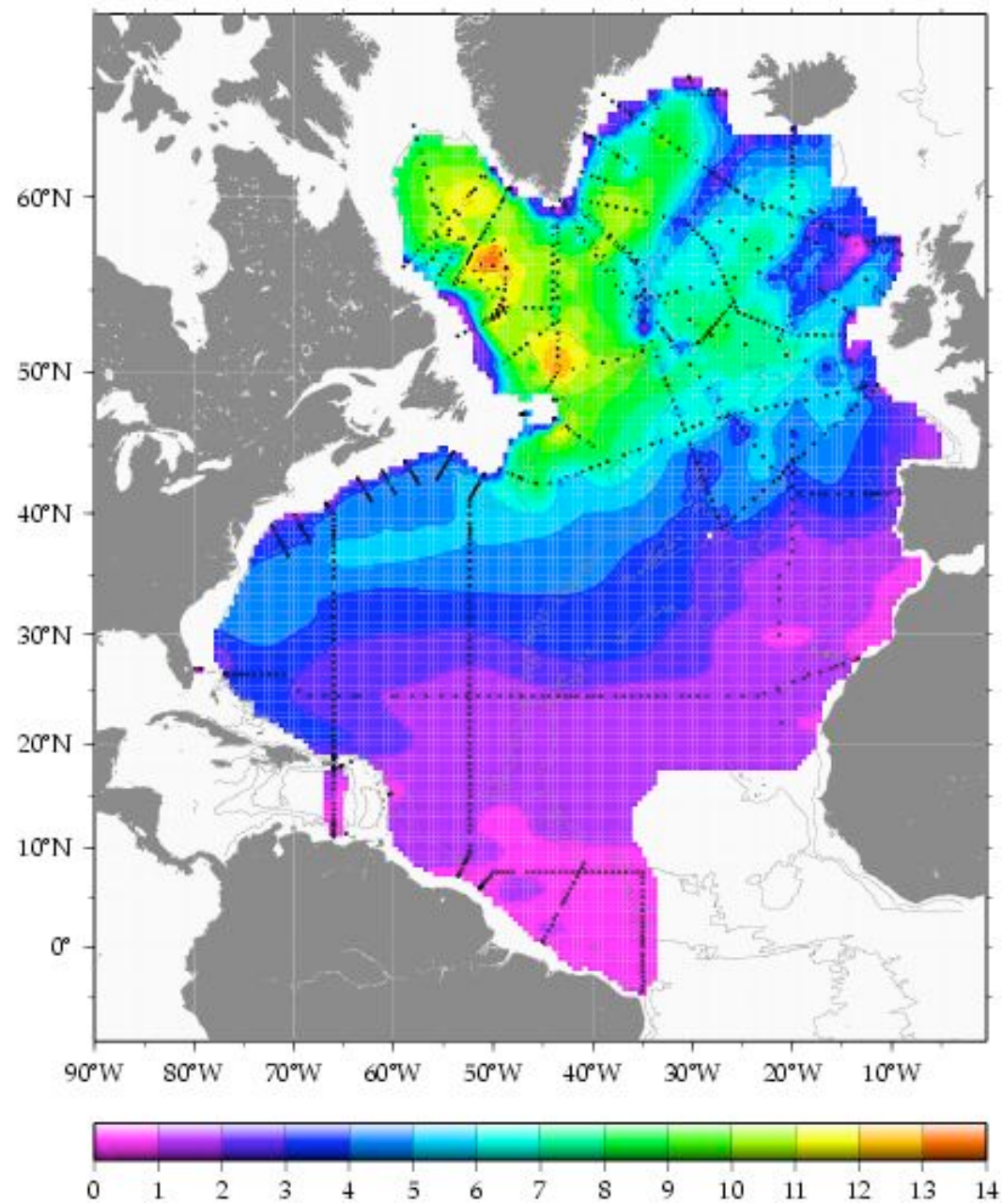


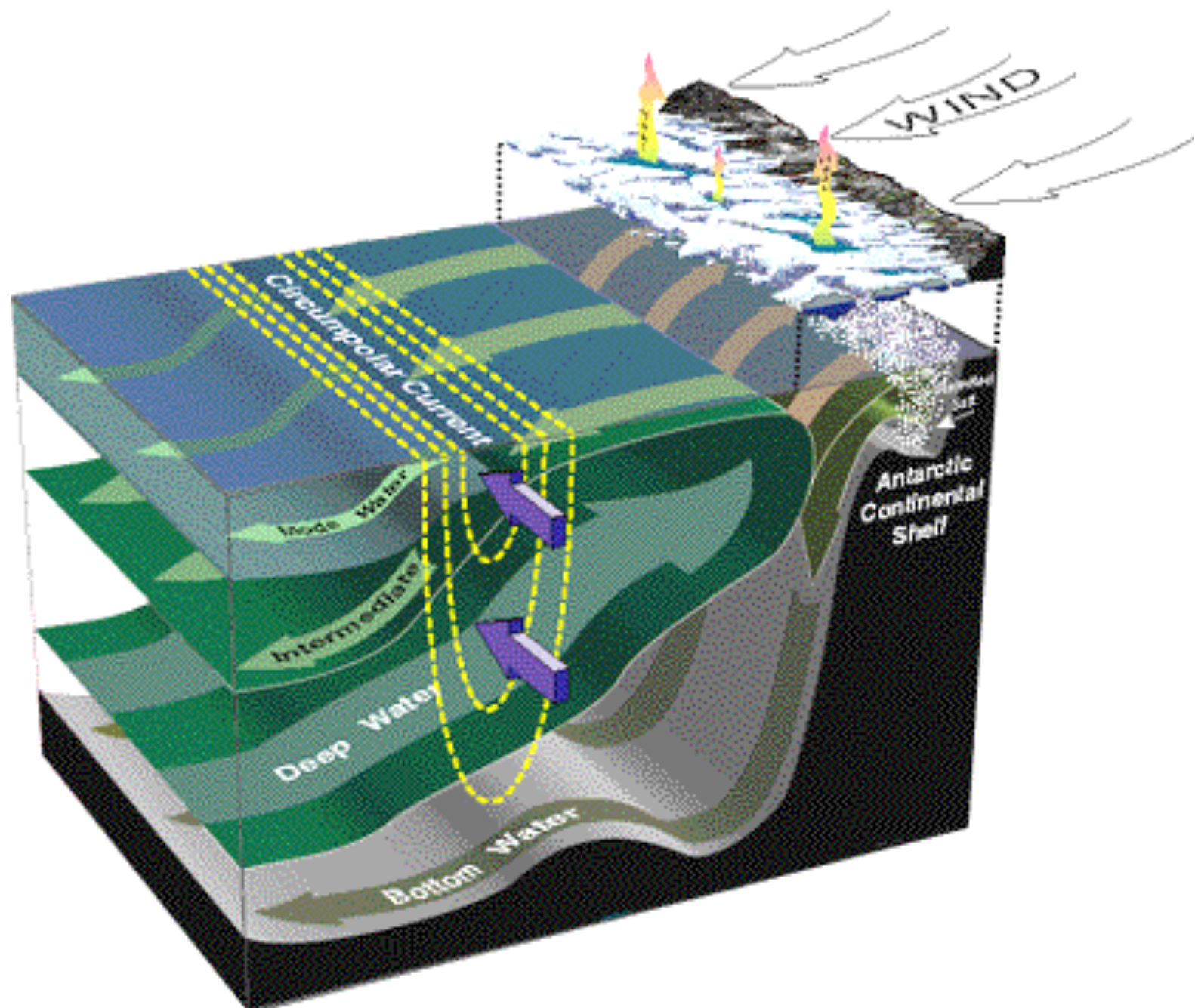
Meridional cross-section of the Atlantic

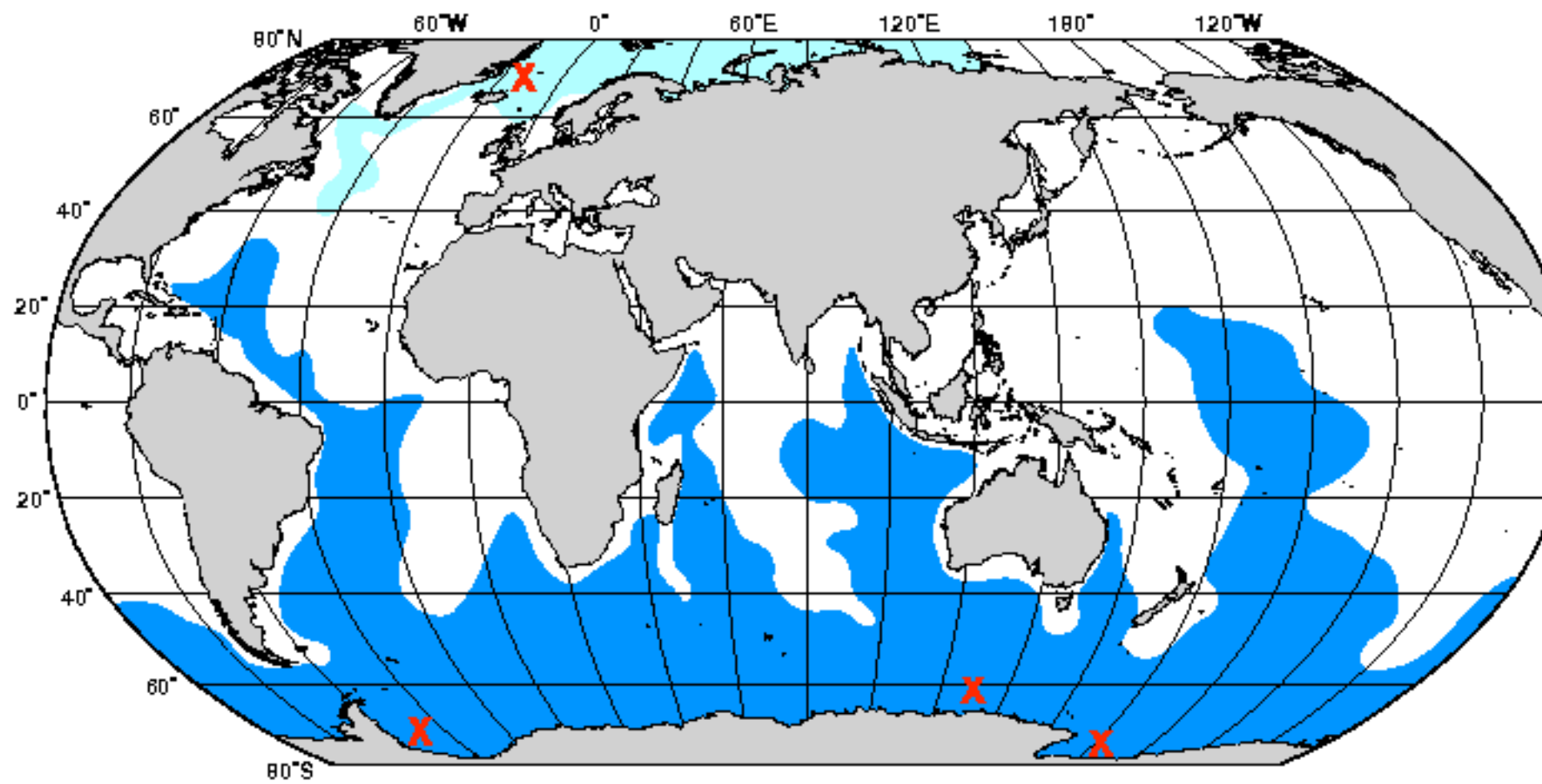


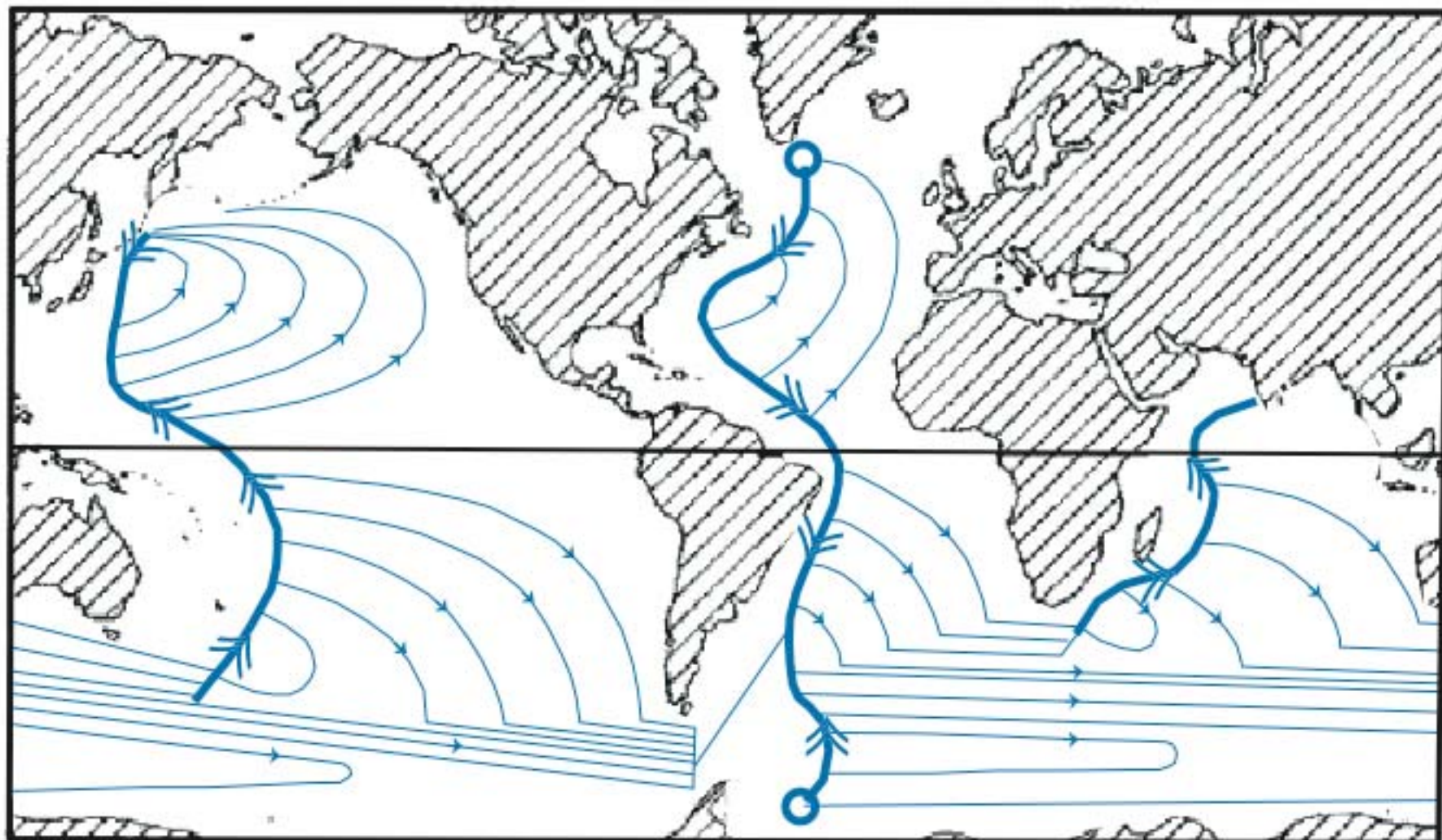
Adapted from Open University (1989) *Ocean Circulation*. Pergamon Press.

Total CFC-11 Inventory [mol km⁻²]









Ocean's *Conveyor Belt* Circulation Schematic

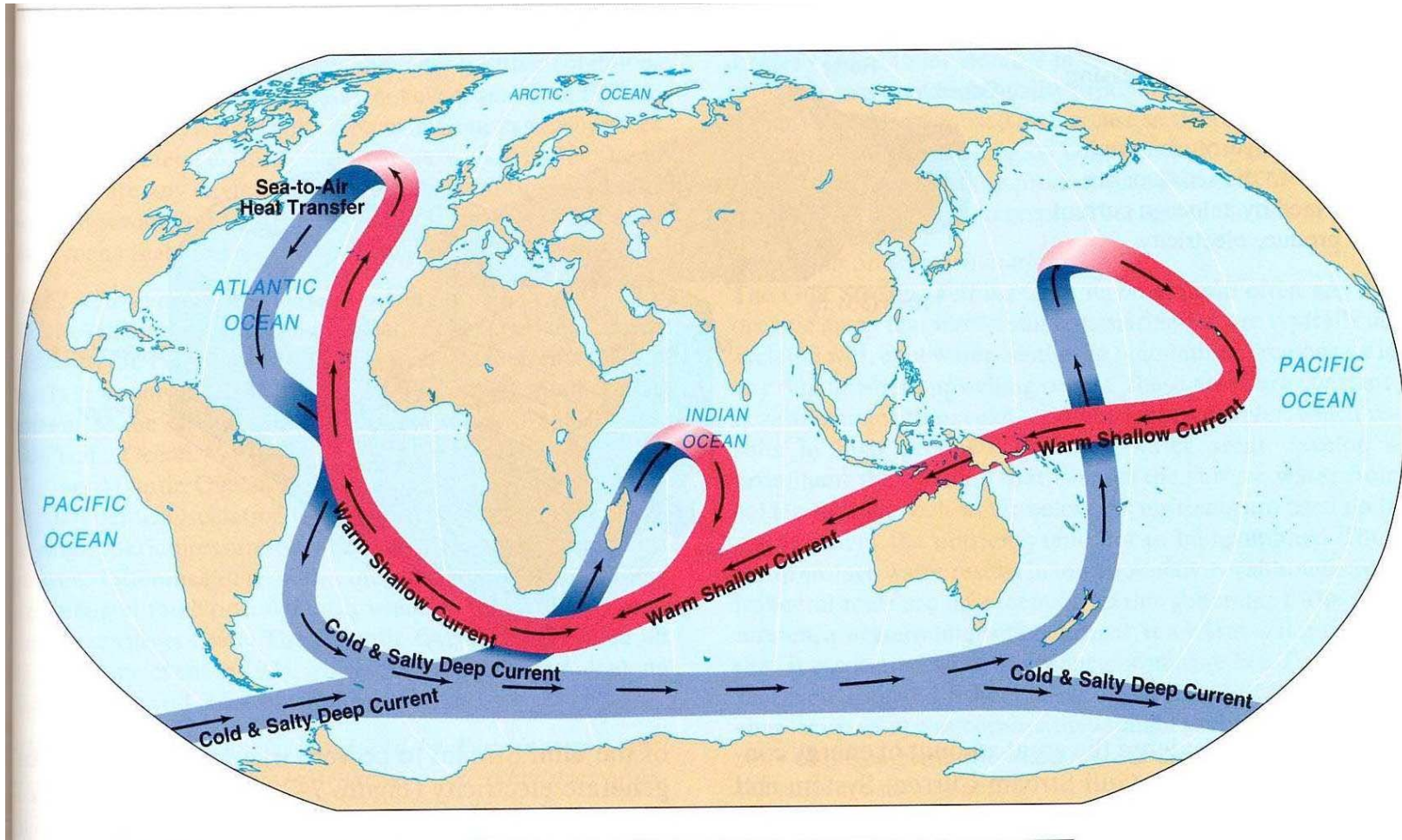
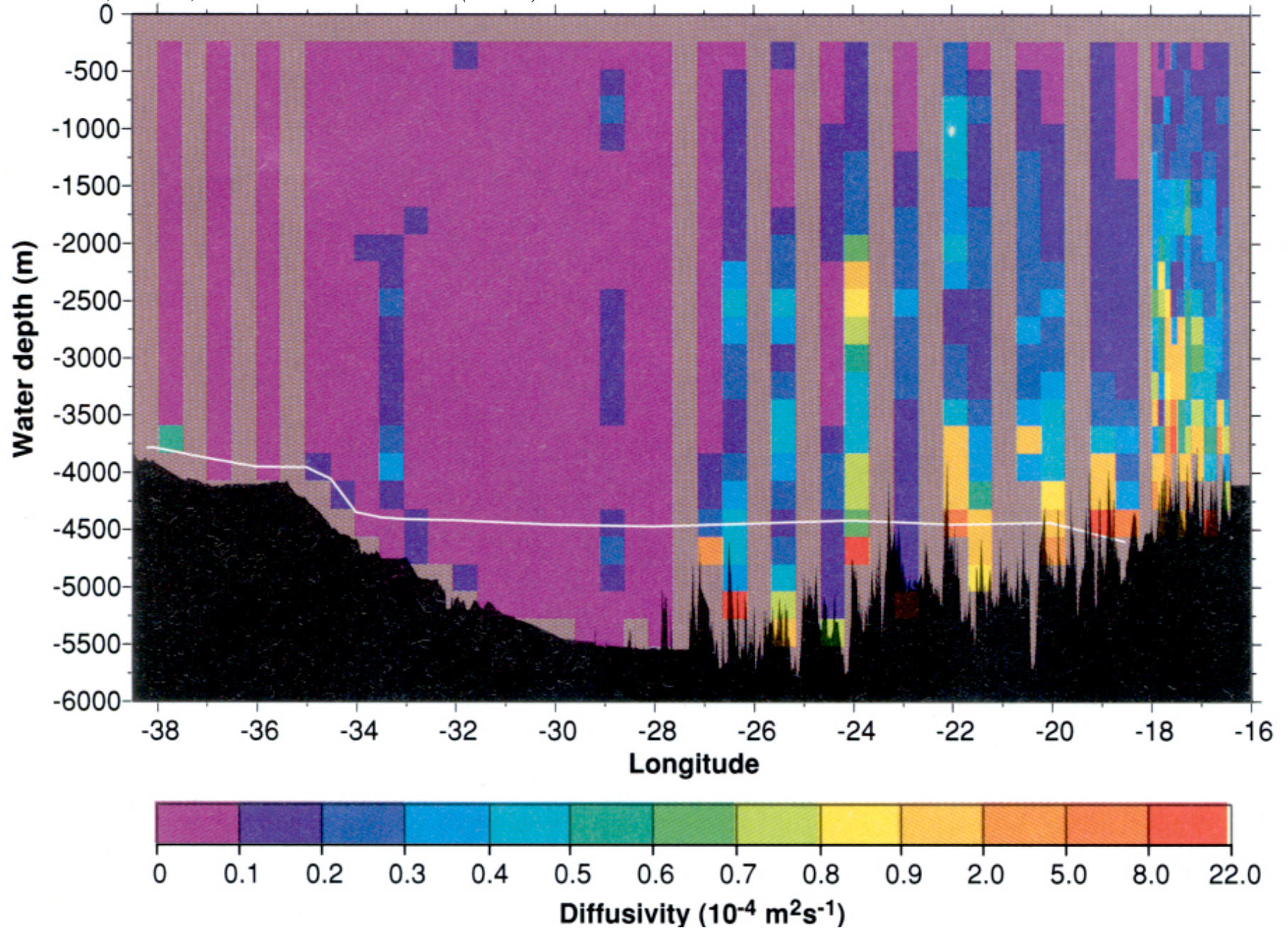


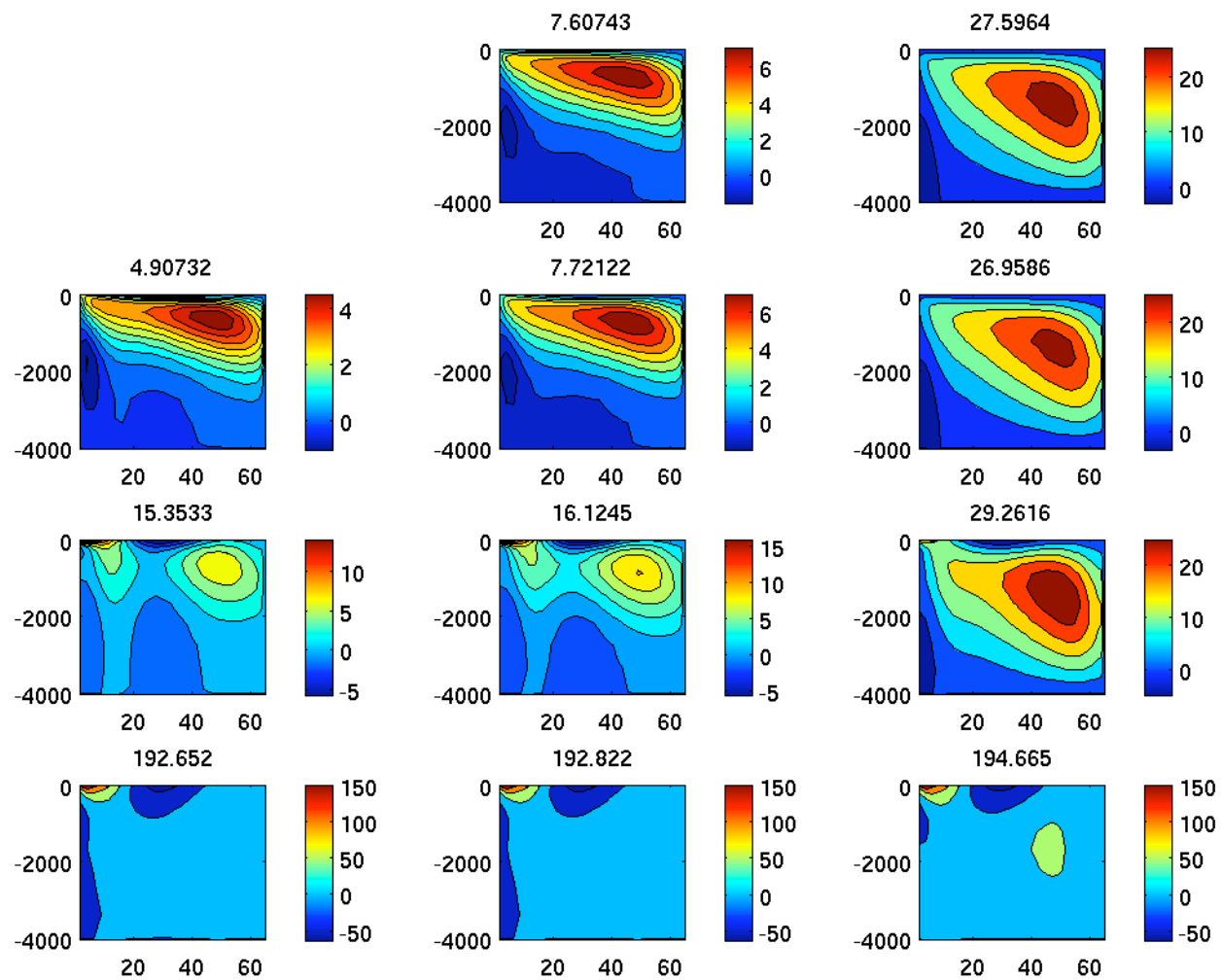
Figure 7-26 Conveyor-belt circulation.

Conveyor-belt circulation is initiated in the North Atlantic Ocean, where warm water cools and sinks below the surface. This water moves southward as a subsurface flow and joins water near Antarctica. This deep water spreads into the Indian and Pacific Oceans, where it slowly rises and completes the conveyor as it travels along the surface into the North Atlantic Ocean.

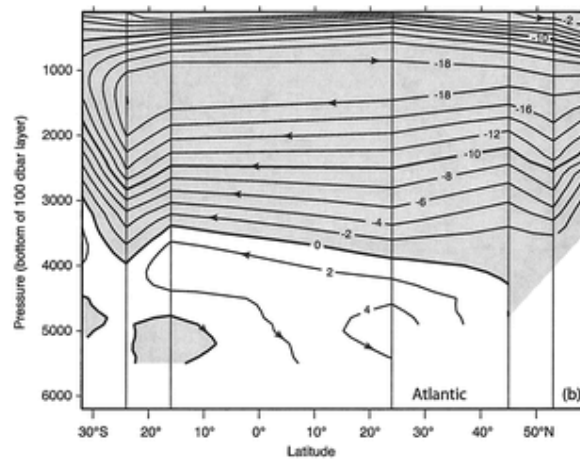
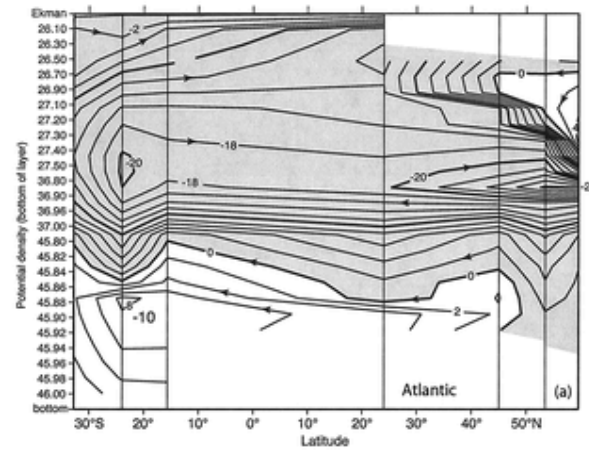
Brazil Basin

Polzin, Toole, Ledwell and Schmitt (1997). Science 276: 93.

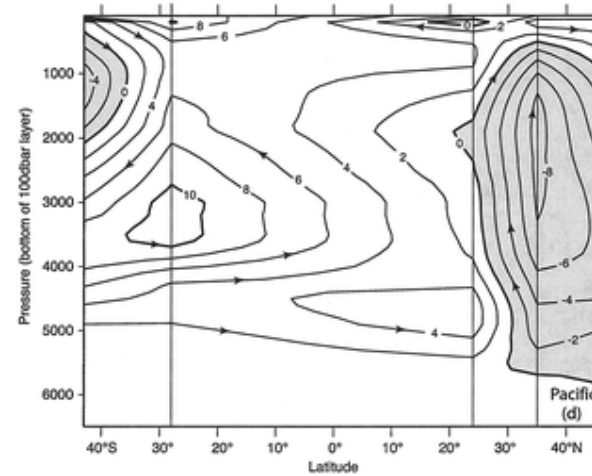
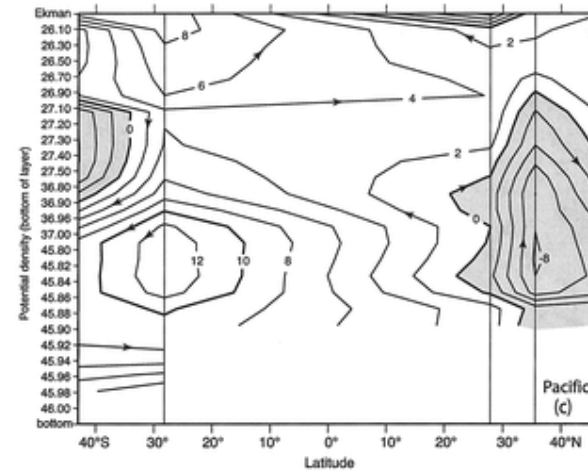




Atlantic

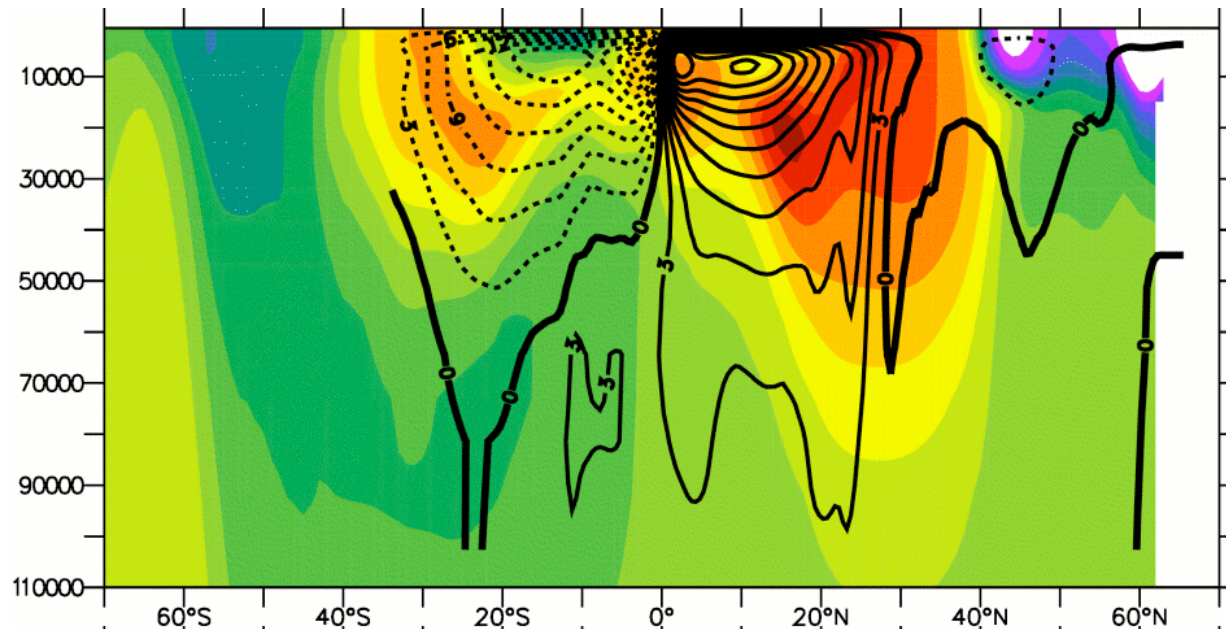


Pacific

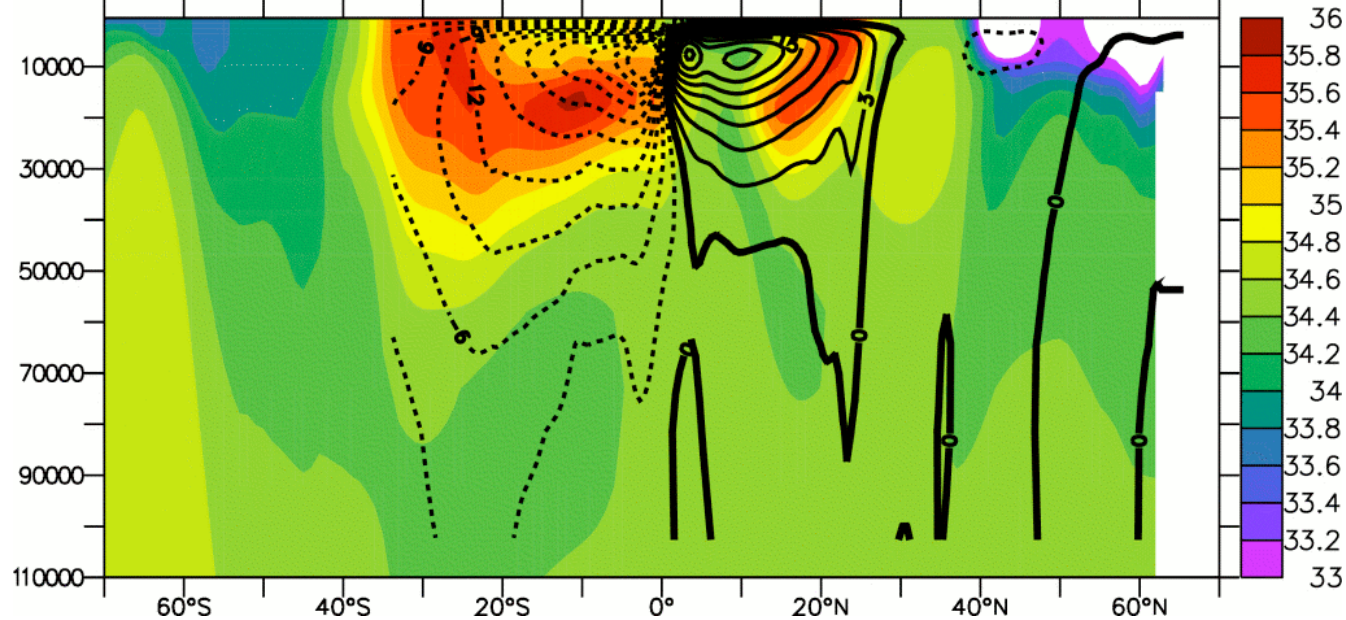


From Talley et al 2003, J. Climate

MOC and Salinity

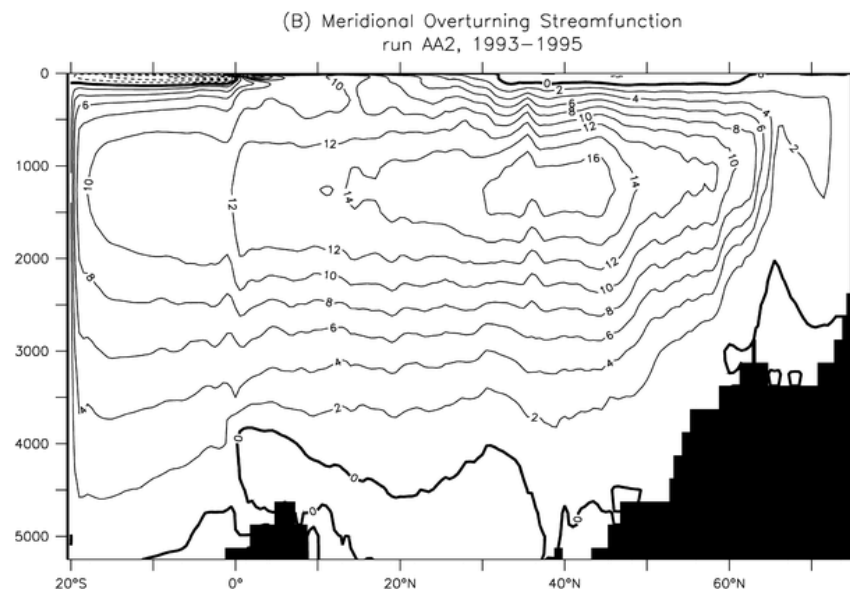
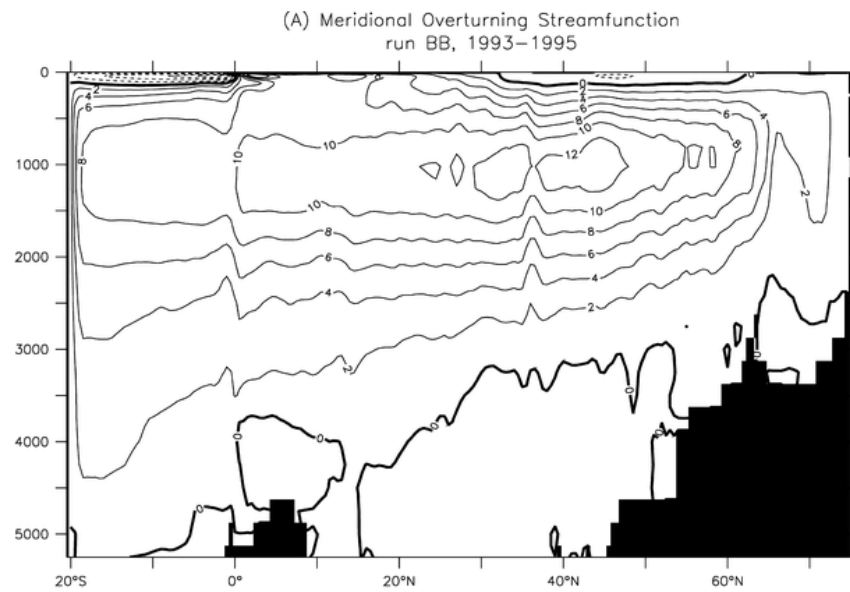


Coupled model



Ocean Only
Model

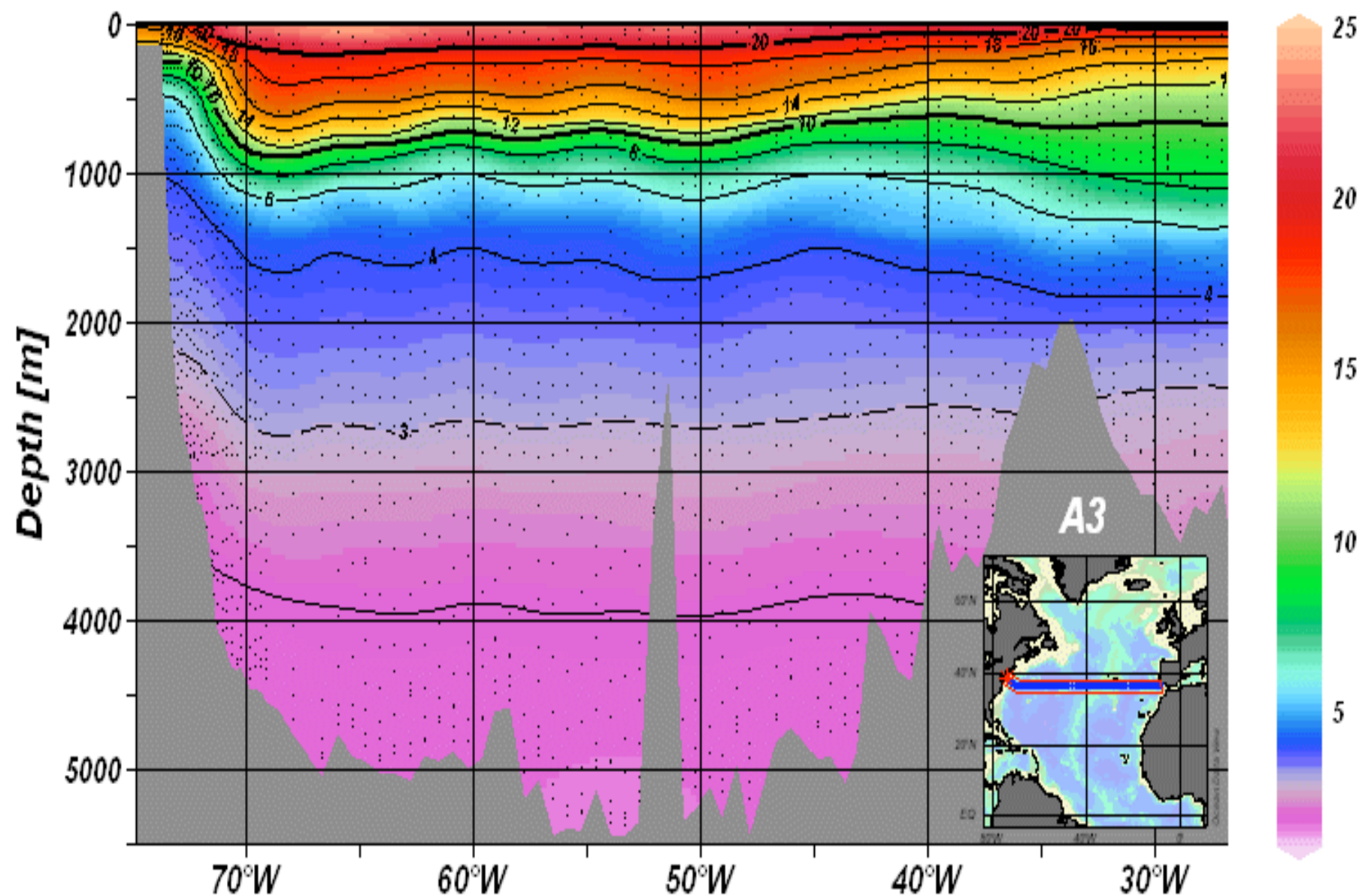
Thompson
and Cheng
2008



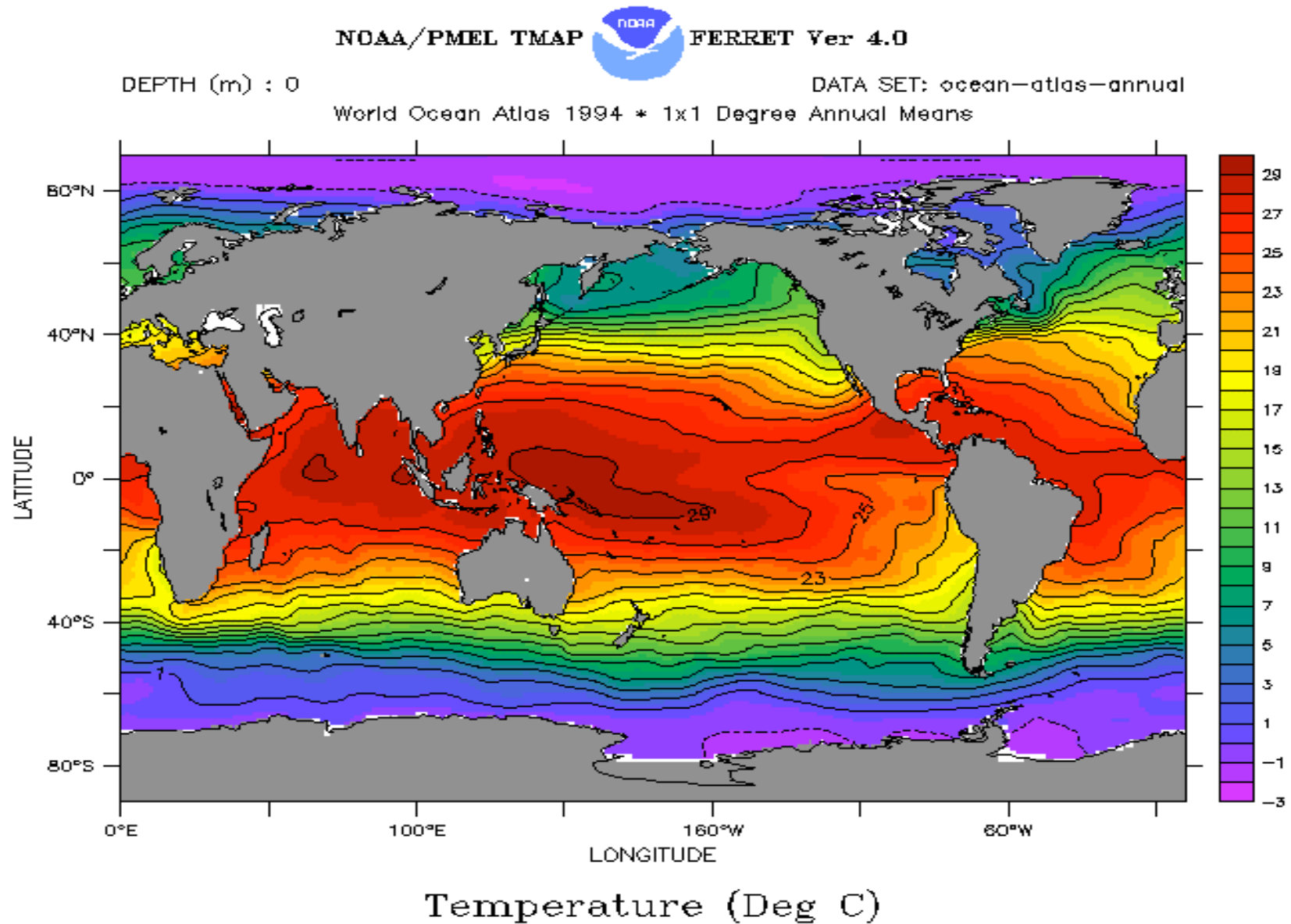
From Smith and Gent, 2004, JPO

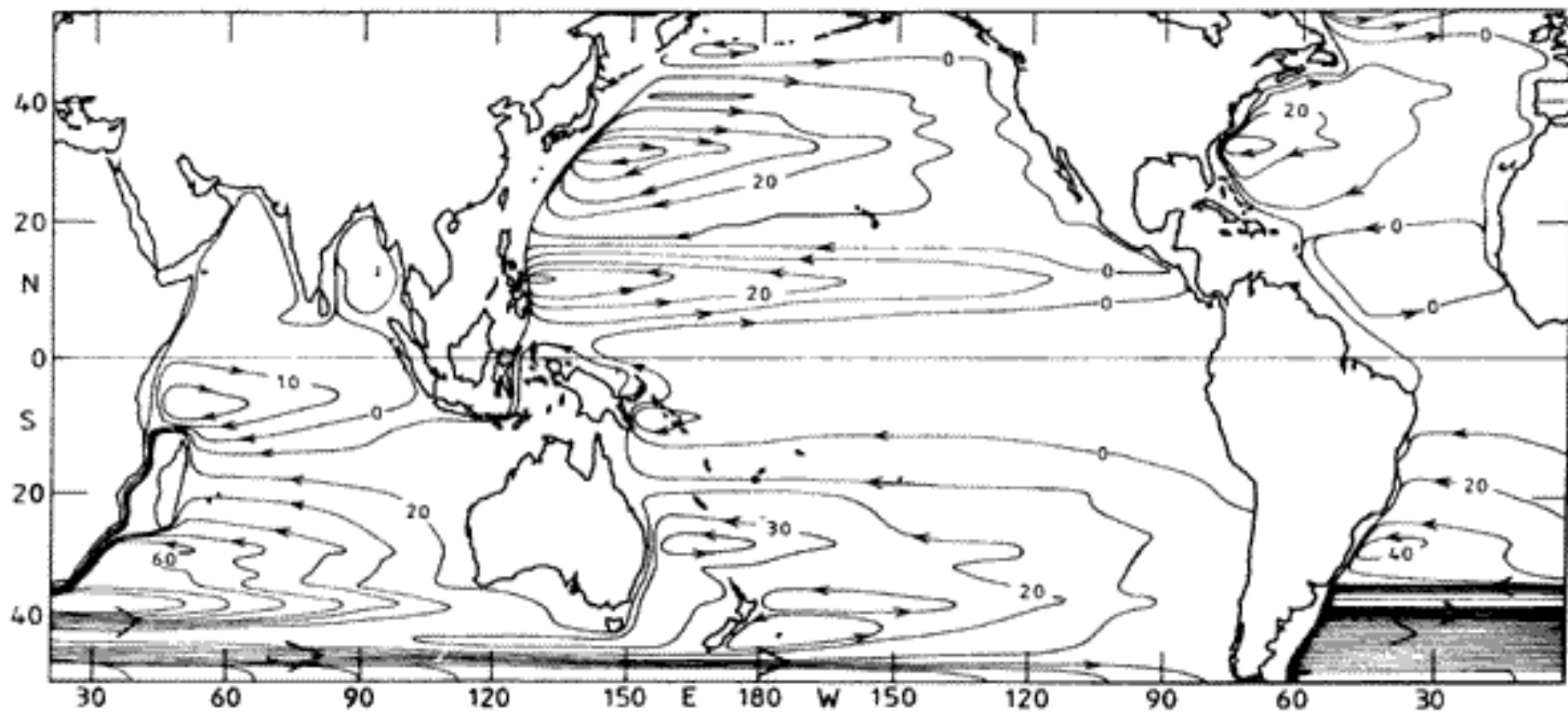
eWOCE

$T_{\text{pot-0}} [^{\circ}\text{C}]$



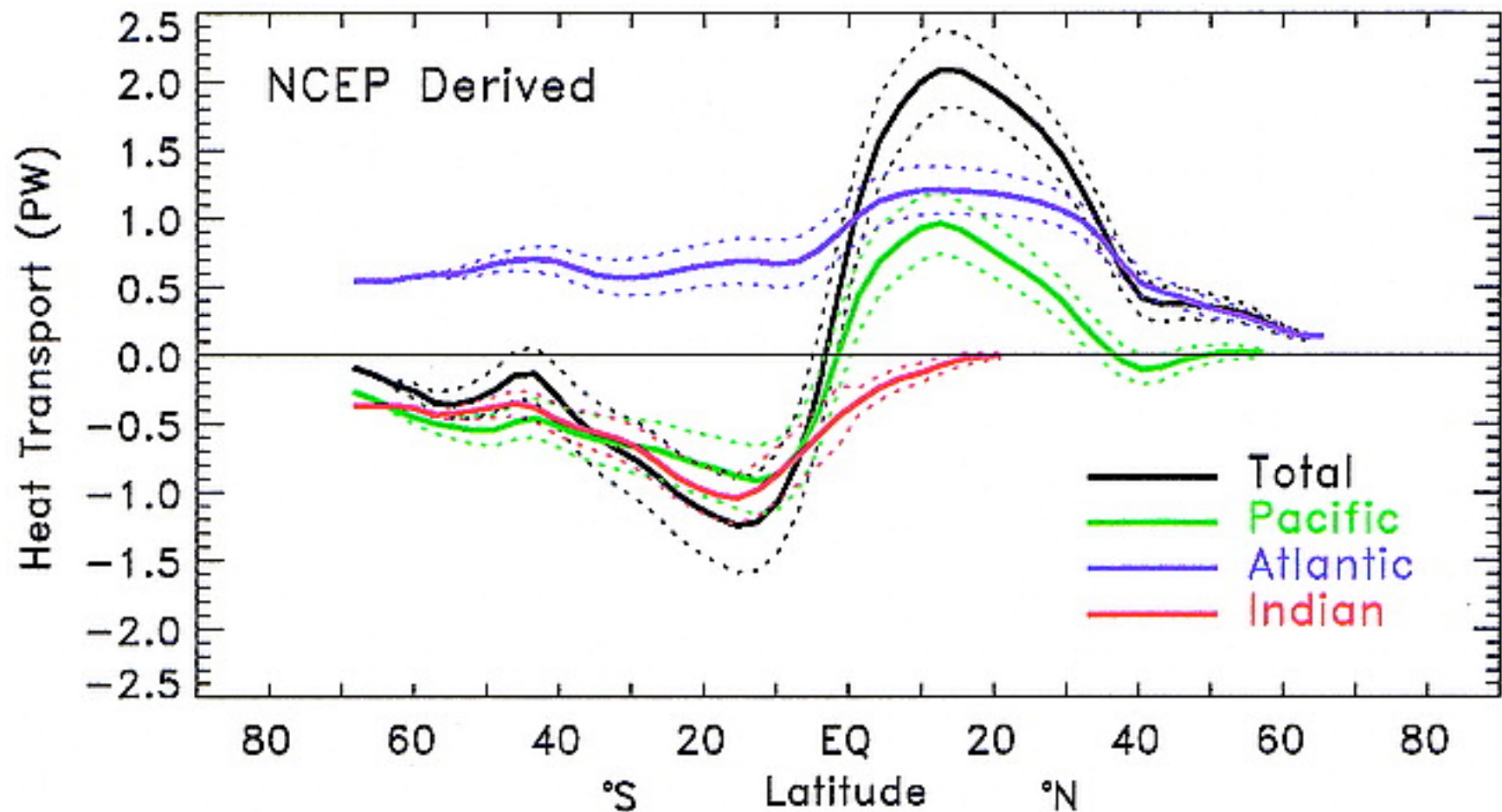
Sea Surface Temperature (SST)





Tomczak and Godfrey (1994)

Heat Transport by the oceans



Heat Transport by the Atmosphere and ocean

