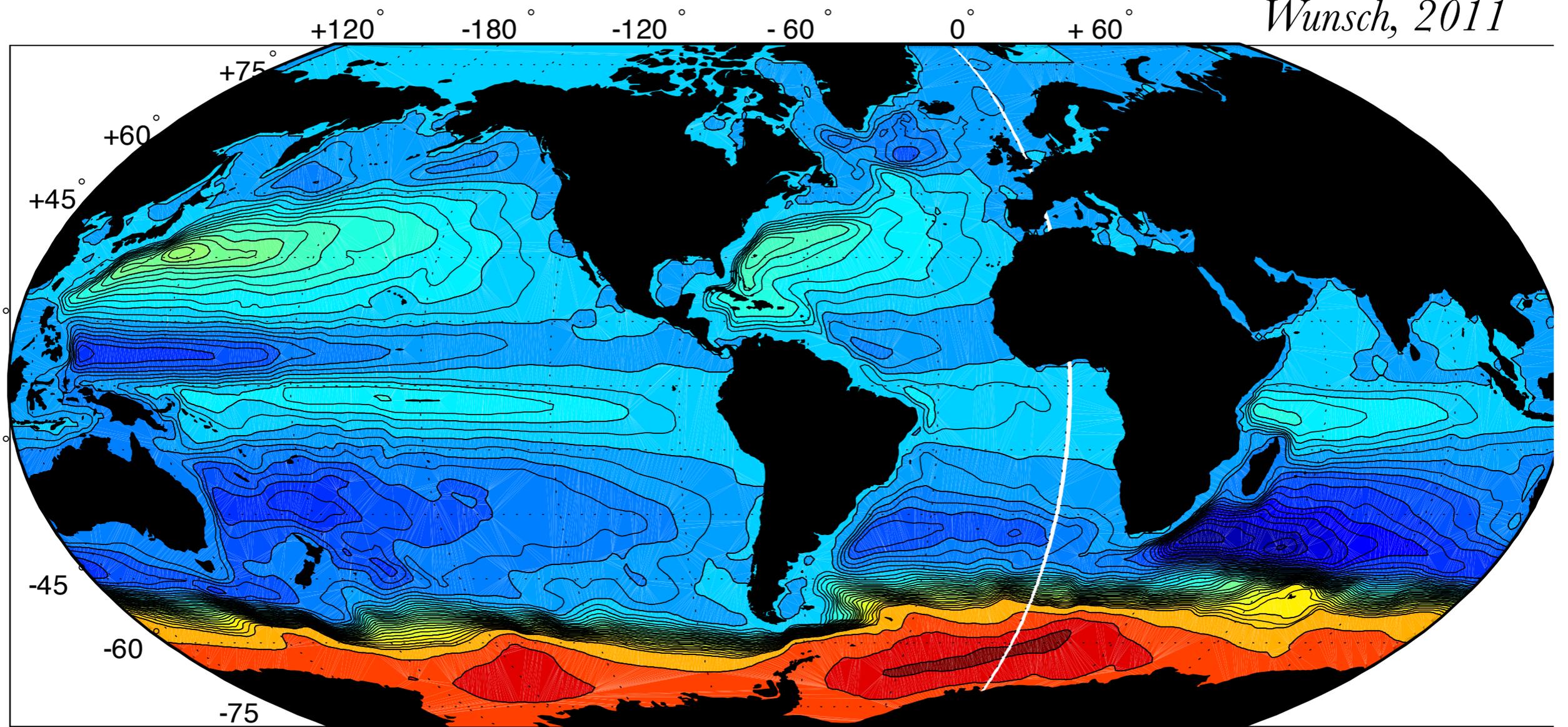


Western Boundary Currents

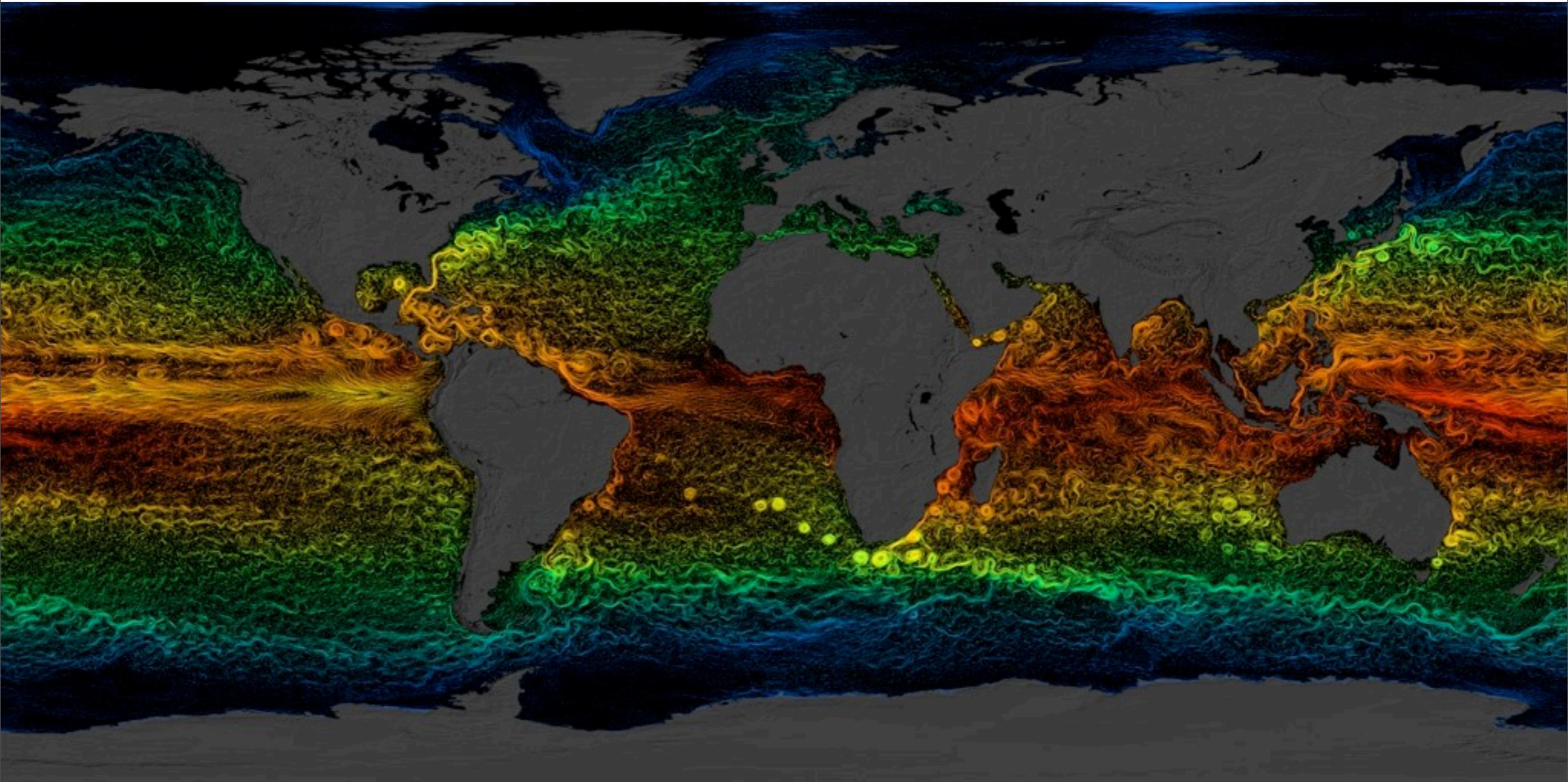
Wunsch, 2011

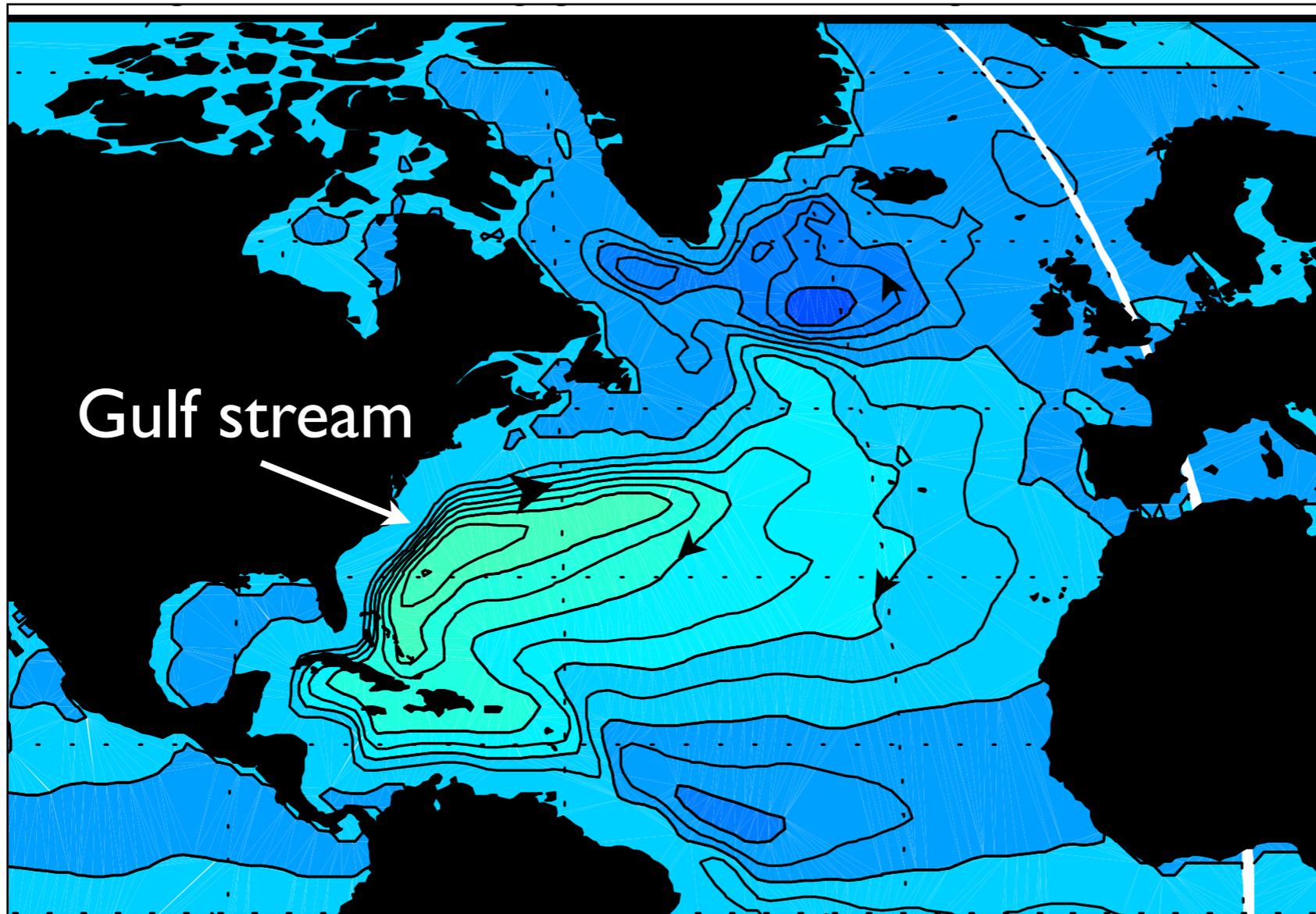


Transport streamfunction ($10^6 \text{ m}^3/\text{s} = 1 \text{ Sverdrup}$)

MIT General Circulation Model (MITgcm)

Streaklines and temperature



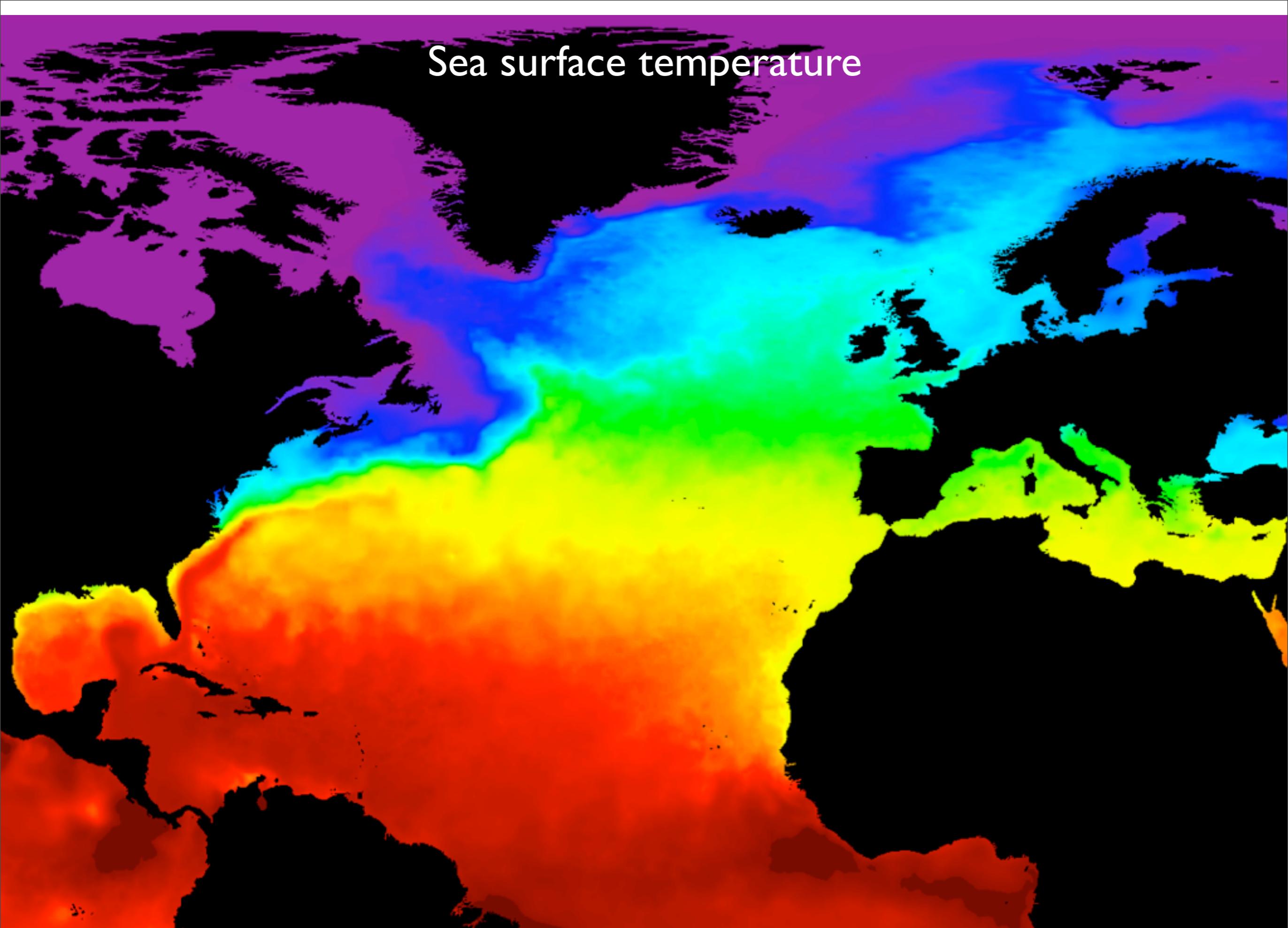


Wunsch, 2011

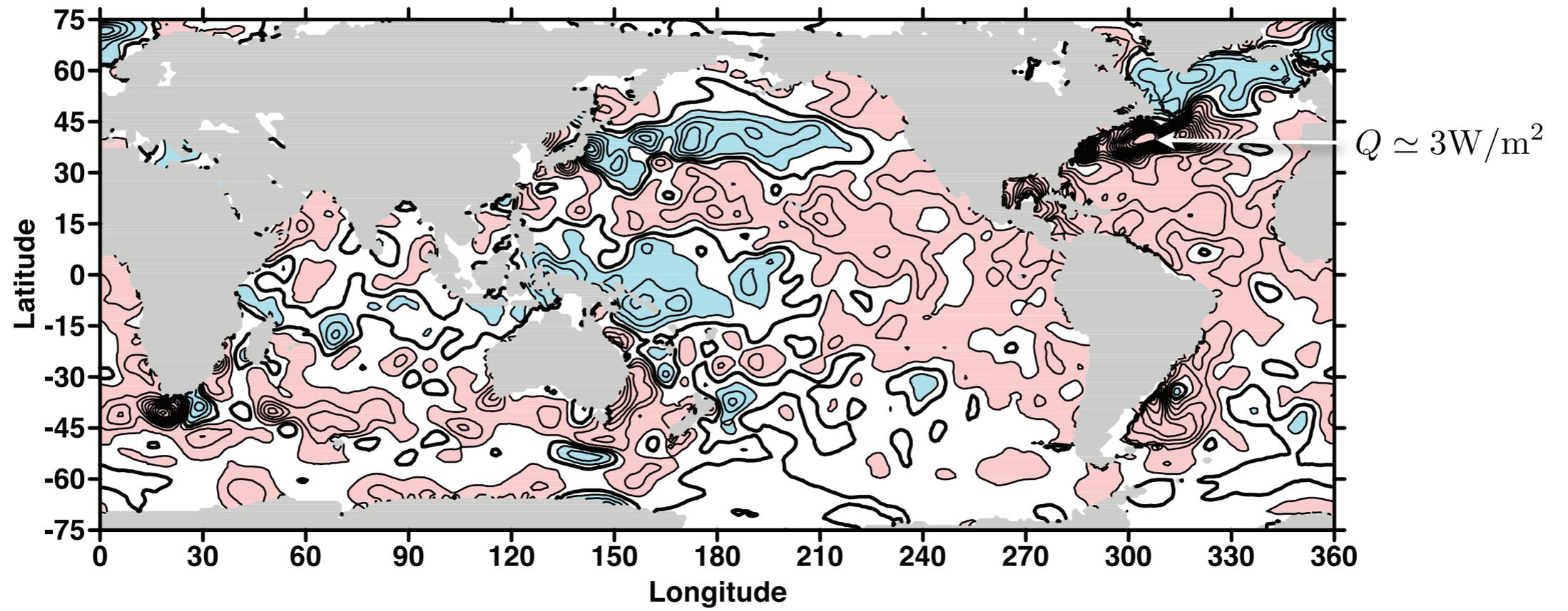


FIG. 173. — FRANKLIN'S CHART OF THE GULF STREAM.

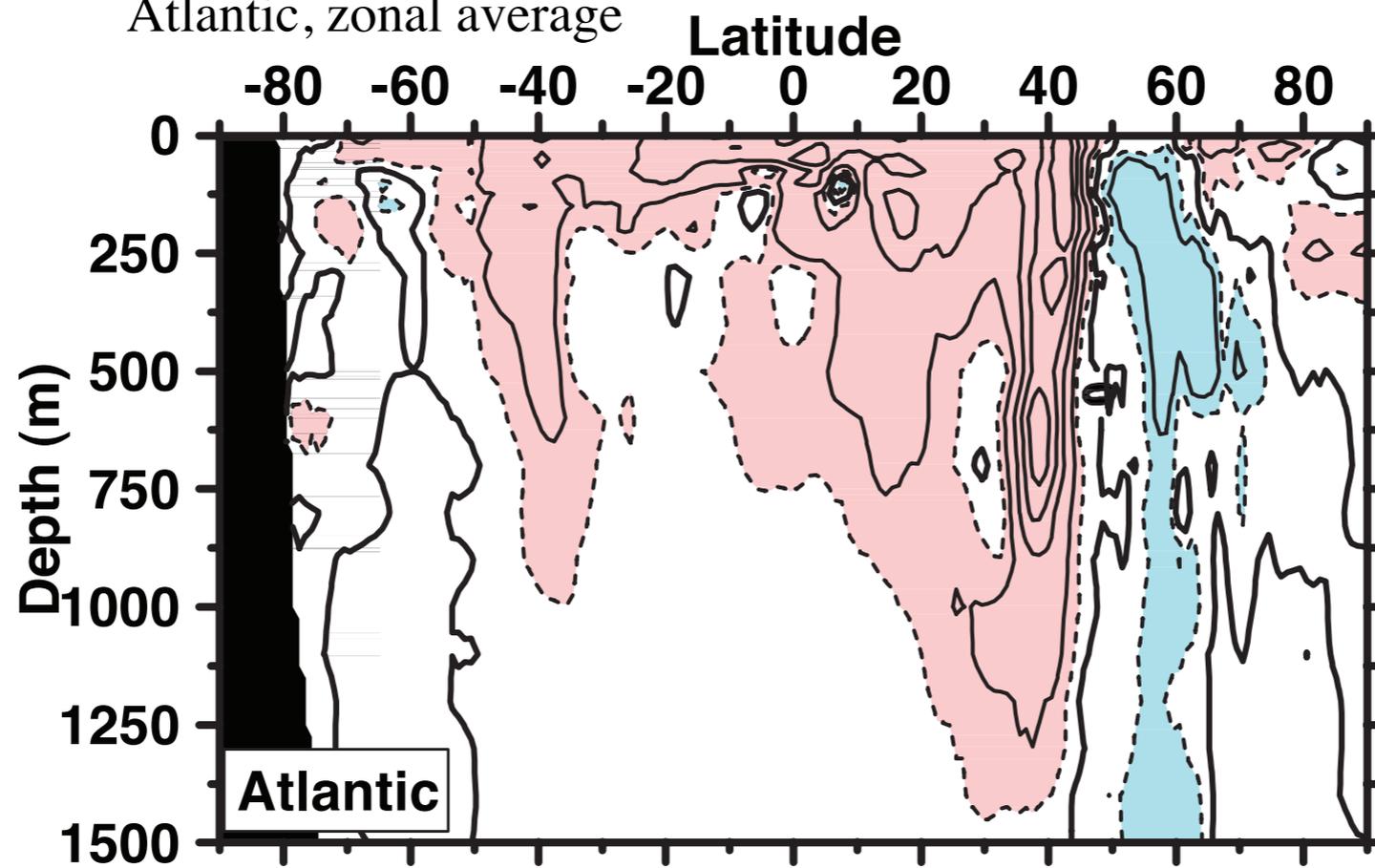
Sea surface temperature

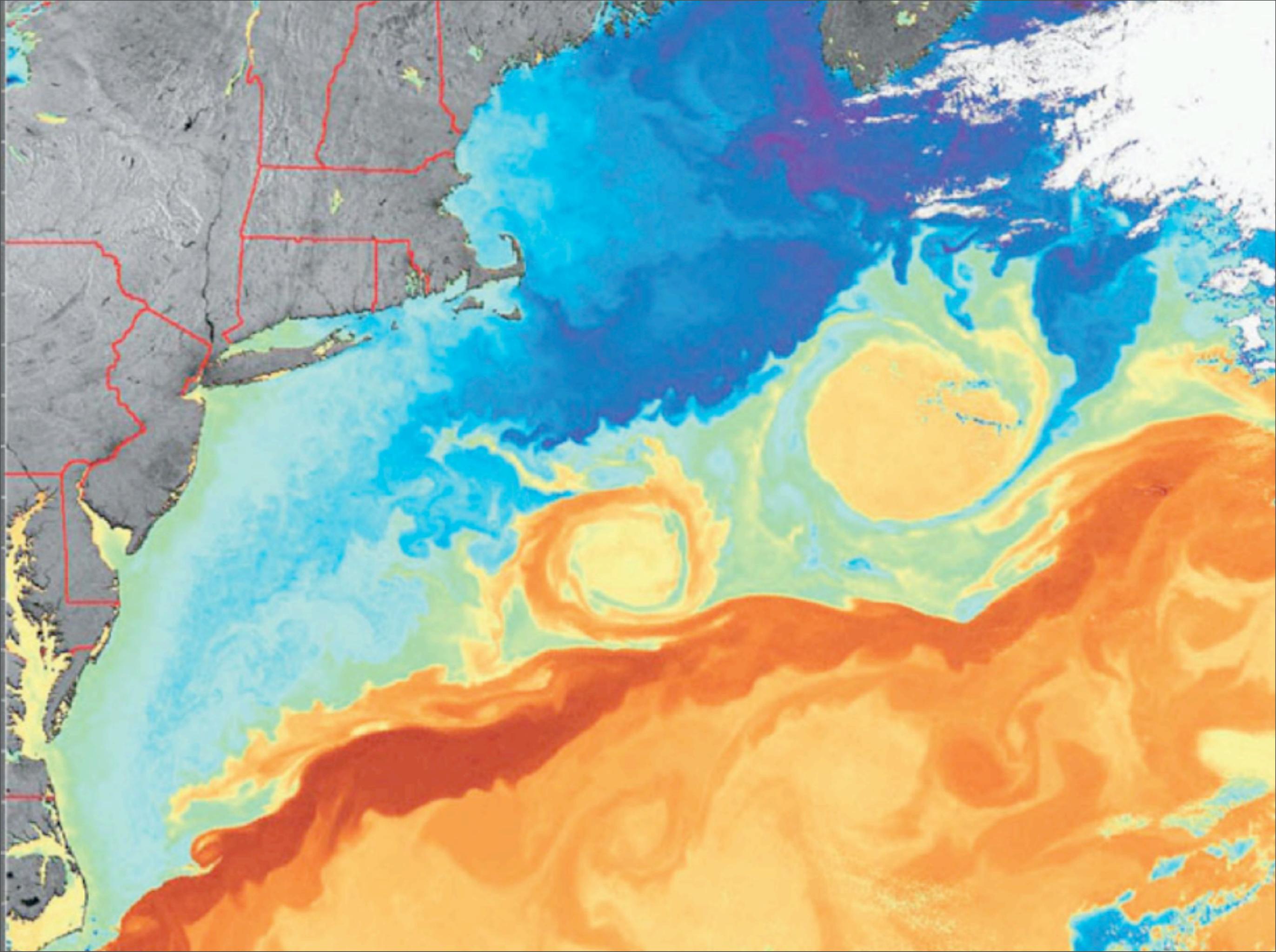


linear trend, ocean heat content 1955-2003 (IPCC AR4)



Atlantic, zonal average





Tuesday, March 12, 13

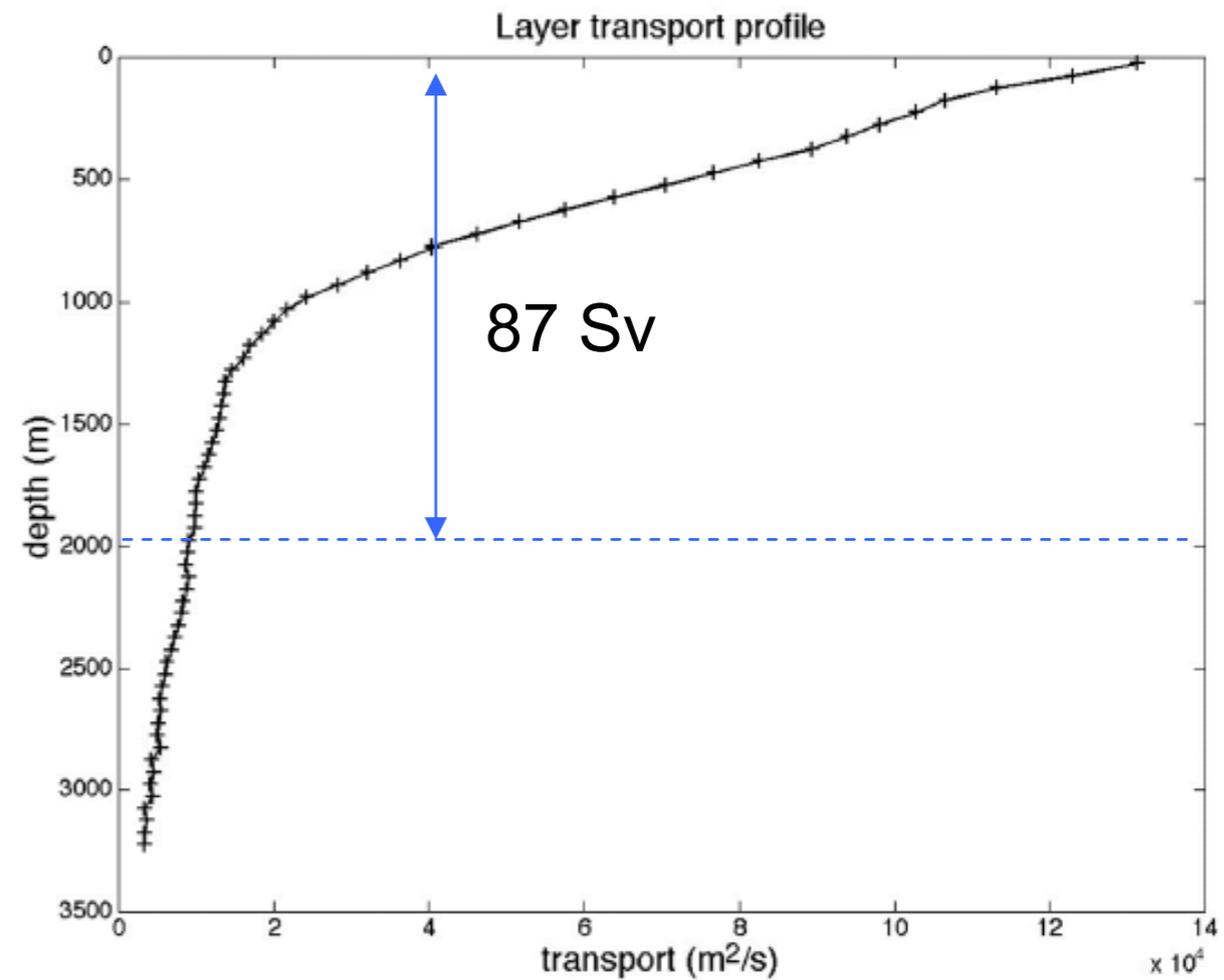
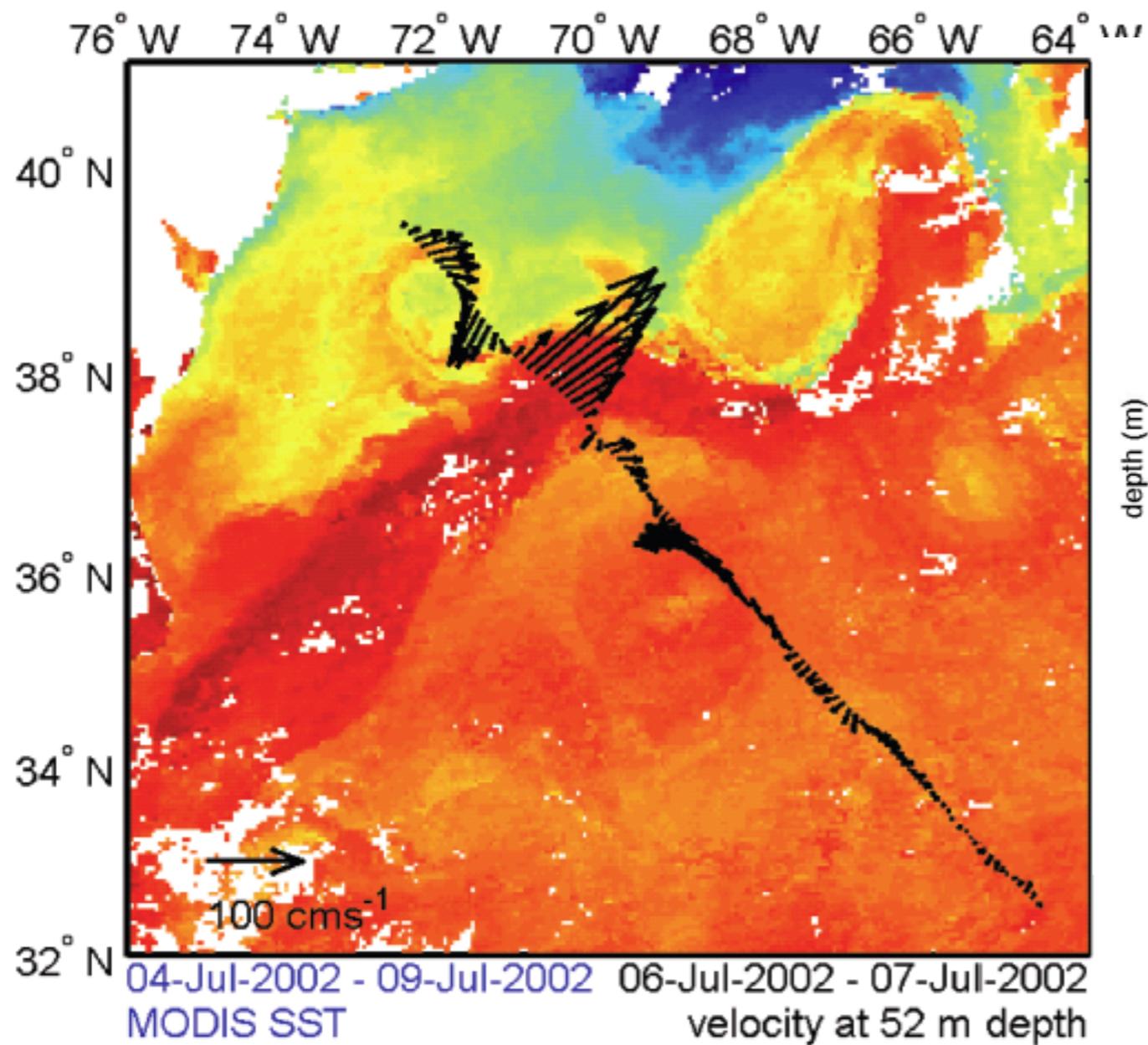


Figure from Rossby et al 2005

$$\psi(x,y), W(y)=(y-1/2)^2-1/4, \beta=20, \nu=0.01$$

