TACE: Circulation within the subtropical cell of the Atlantic Ocean

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Objectives

Study of the circulation of the western and central tropical Atlantic using isopycnic RAFOS floats. Main issues are

- Pathways within the subtropical cell for the supply of eastern upwelling regions
- Role of intraseasonal to seasonal variability for the mean subtropical cell

Measurement program

The measurement program consist of the deployment of about 50 isopycnic RAFOS floats at 35°W, 28°W and 23°W near the equator during METEOR cruise M62/2 in August 2004 and during SUROIT cruise in May 2005. The floats drift for about one year on isopycnic surfaces σ_θ=25.7 kg/m³ and σ_θ=26.8 kg/m³. Five sound source moorings were deployed and will be recovered during METEOR cruise M68/2 in June 2006.

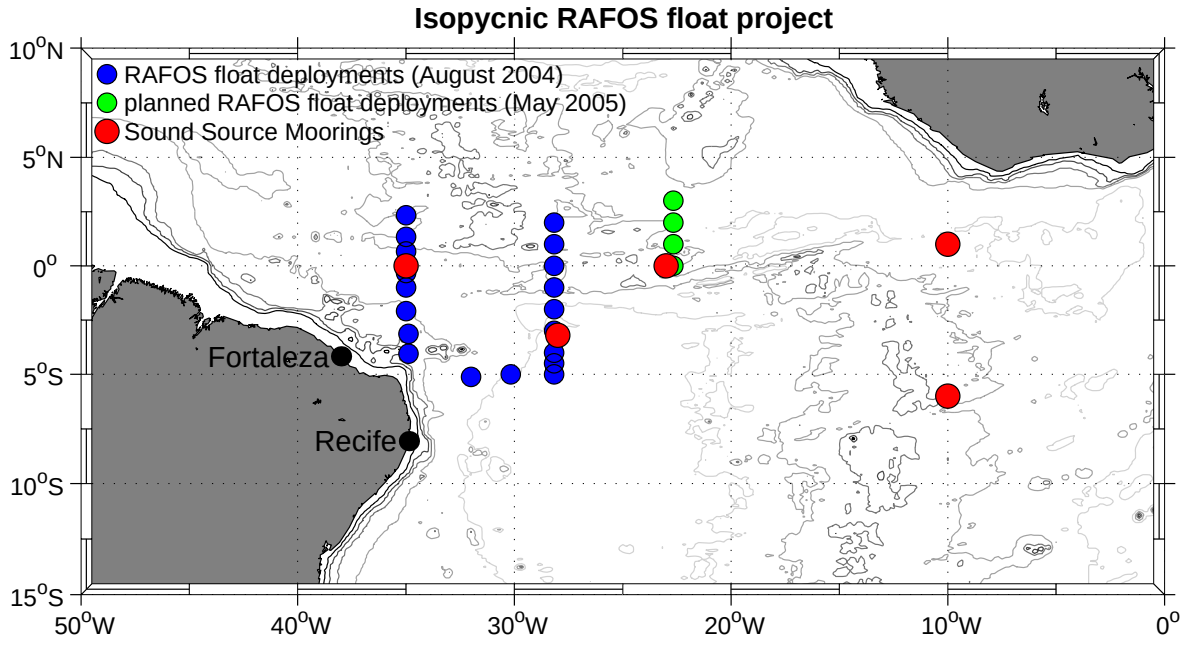

Fig.: Deployment positions of isopycnic RAFOS floats and positions of sound source moorings.