

**Tropical Atlantic and PIRATA-15
meeting
2-5 March 2010
Miami, Florida**



*PIRATA BRAZIL XII
Planned Activities
at sea*

*DIRECTORATE OF HYDROGRAPHY
AND NAVIGATION
Brazilian Navy Hydrographic Service*



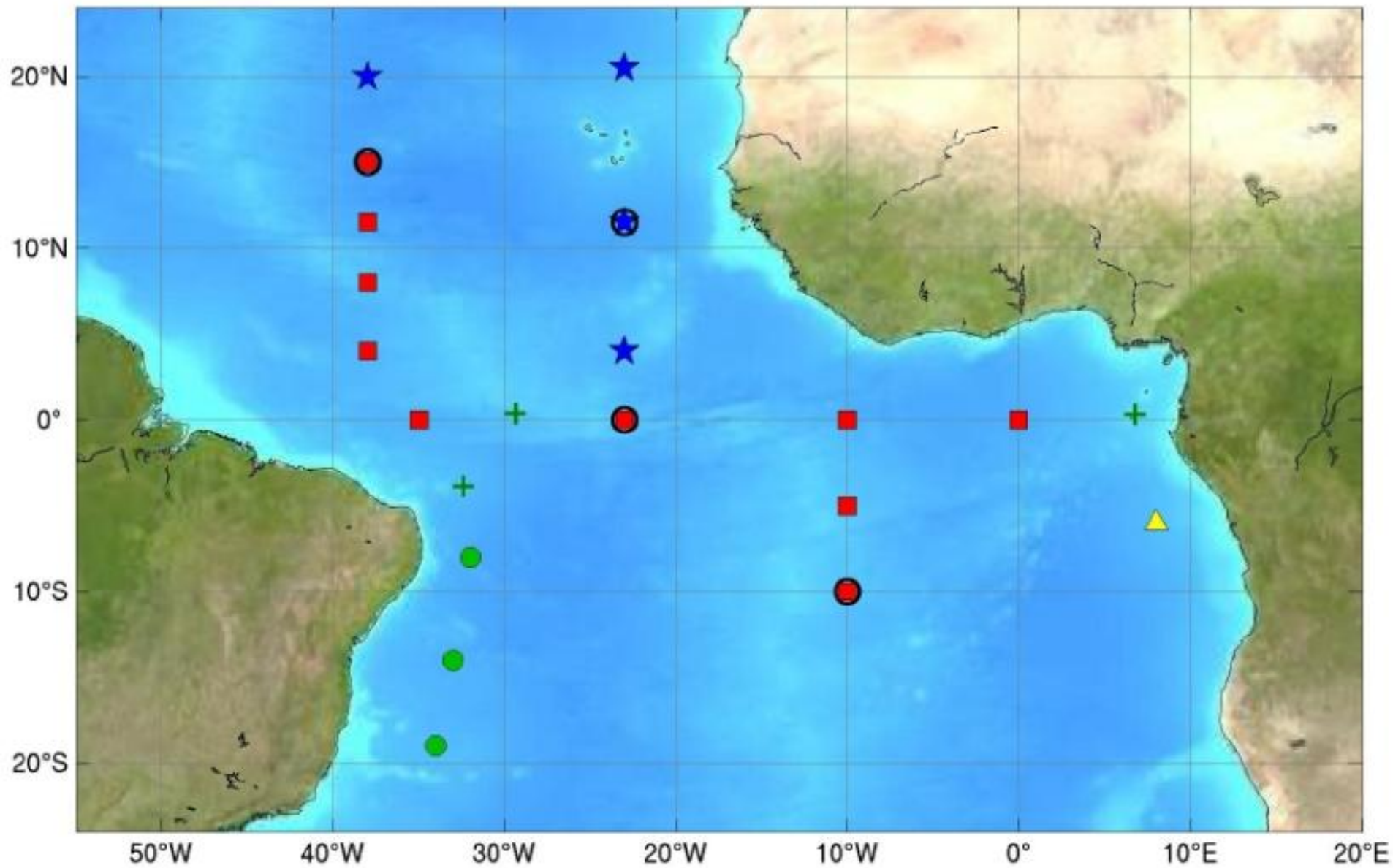
ANTARES

This is the
"Sea Scorpio's"





- The Oceanographic Ship Antares was built in Norway in 1984 and incorporated into the Brazilian Navy in June 6, 1988. She is the first Brazilian Navy ship to carry this name, the brighter star of the Constellation Scorpius.
- The ship conducts oceanographic and hydrographic surveys, and collects environmental data in the Brazilian coast, contributing to support naval operations and navigation security in the maritime area of Brazilian interest, to participate in national research projects and those related to international commitments (Ex. PIRATA). The ship had particular importance in the collection of physical and chemical data related to the U.N. Programme for Assessing the Sustainable Potential Living Resources of the Brazilian Exclusive Economic Zone (REVIZEE).





1st LEG: RIO DE JANEIRO – FORTALEZA

06 to 13 APR

- Radiosonde profiling once a day;
- Underway measurements with ADCP, and TERMOSAL

2nd LEG: FORTALEZA – FORTALEZA

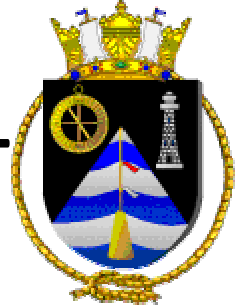
15 to 30 APR



- Buoys No. 1 to 4
- 15 CTD-Rosette stations, up to 500m, sampling at 6 (six) levels using 2 bottles of 5 litres /level between 03°S e 15°N, along 038°W, 60 NM apart from one to another. For these Levels would be made analyzes of pH, dissolved oxygen, CO₂ and bacteria.
- Underway measurements with ADCP, TERMOSAL and CO₂
- Radiosonde profiling once a day

3rd LEG: FORTALEZA – NATAL

05 to 14 MAY



- Buoys 05 and 06 (SW extension)
- CTD-Rosette stations, up to 500m, sampling at 6 (six) levels using 2 5 litres bottles /level between 03°S e 15°N, along 038°W, 60 NM apart from one to another. For these Levels would be made analyzes of pH and dissolved oxygen;
- Underway measurements with ADCP, TERMOSAL and CO₂;
- Underway Bacteria analyses ,twice a day, in depths above 50 metres;
- Radiosonde profiling once a day; and
- Deployment of a drift buoy nearby Equator, after maintainance of Buoy 5. Dr. Moacir Araújo from UFPE will thanks for that.

4rd LEG: NATAL – RIO DE JAEIRO

18 to 28 MAY



- Buoys 07 and 08 (both at SW extension);
- 10 CTD-Rosette stations, up to 500m, sampling at 6 (six) levels using 2 bottles of 5 litres /level 60 NM apart from one to another along SW extension (from buoy 06 to 08) For these Levels would be made analyzes of pH, dissolved oxygen, CO₂ and bacteria;
- Underway measurements with ADCP, TERMOSAL and CO₂ ;
- Underway Bacteria analyses ,twice a day, in depths above 50 metres; and
- Radiosonde profiling once a day.

TOTAL

41 DAYS AT SEA

*THANK
YOU!*



R/V ANTARES

