

## PRELIMINARY CRUISE REPORT

Cruise name/number:	<b>PIRATA-FR33</b> (2023)
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### Authorizations:

Coastal State	Authorization Document Number	National Participant(s)
United Kingdom	NV 14/2023 R11/2022	None

### Scientist in charge of reporting:

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### Brief description of scientific objective:

PIRATA (« **P**rediction and **R**esearch **M**oored **A**rray in the **T**ropical **A**tlantic ») is a multinational programme (France, Brazil, USA) of operational oceanography initiated in 1997 within the international CLIVAR (Climate Variability and predictability) program framework, and realized in the framework of an international cooperation between USA, Brazil and France (committed countries through a Memorandum of Understanding). It constitutes the main observations network in the tropical Atlantic (CLIVAR, OOPC, GOOS, GCOS) for climate prediction and research, and contributes to OceanSITES.

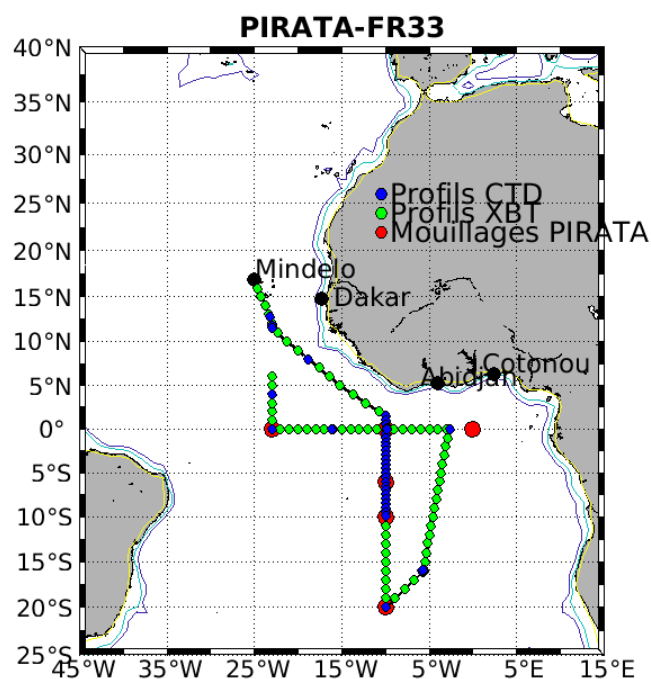
PIRATA is a program for the studies of air-sea interaction in the Tropical Atlantic to seasonal, interannual or longer timescale. PIRATA maintained a network of 18 ATLAS buoys that allow the description and understanding of the evolution of the upper ocean thermal structure, ocean-atmosphere exchanges of heat and water, spatial and temporal variations of momentum. Observed parameters are used to estimate the exchanges at the air-sea interface along with the oceanic thermohaline structure down to 500m depth. Oceanic (temperature and salinity between the surface and 500m) and atmospheric at the ocean surface (wind direction, wind velocity, air temperature, relative humidity, rainfall, shortwave radiation) data are daily transmitted in real time through ARGOS, and available through internet. PIRATA needs yearly cruises to replace all the buoys and, in this framework, France (through IRD) is in charge of 6 ATLAS/T-Flex moorings located in the Gulf of Guinea (at 23°W-0°N, 3°W-0°N, 10°W-10°S, 10°W-6°S, 10°W-0°N and 10°W-20°S) and of three equatorial currentmeter moorings at 23°W-0°N, 10°W-0°N and 3°W-0°N).

The present cruise PIRATA-FR33 (33rd cruise of this program) main objective is the yearly servicing of these 6 ATLAS/T-Flex buoys and of the equatorial currentmeter mooring at 10°W-0°N.

**Update on anticipated dates for delivery of final results:**

Metadata:	Cruise and data information and data will be made available on the French Pirata website : <a href="http://www.brest.ird.fr/pirata">http://www.brest.ird.fr/pirata</a> or possibly through a direct demand to the chief scientist
Raw Data:	04/2023
Processed Data:	12/2023
Data Analysis:	
WODC Data Registration	Accession number <a href="https://doi.org/10.18142/14">https://doi.org/10.18142/14</a>

**Append image or URL illustrating the route of the platform, locations where measurements were taken, and actual cruise track:**



Details regarding operations carried out in Saint Helena's EEZ can be found in the document

[Cruise\\_Report\\_PIRATA-FR33\\_StHelena\\_April2023.pdf](#)

Further information on PIRATA-FR33 cruise and data access will be available at :

<http://www.brest.ird.fr/pirata>

Réf :

DRAFT STANDARD FORM C

Art 249 from UN Convention of law of the sea