ETAMBOT1_00325.txt

#DATA_DATES: 1995/09/09 11:04:00 --- to --- 1995/10/10 15:47:00
#LON_RANGE:  51.96 W --- to ---  34.92 W
#LAT_RANGE:   5.67 S --- to ---   8.39 N
#DEPTH_RANGE:     16 --- to --- 408 m
#SAC_CRUISE_ID: 00325
#PLATFORM_NAME: R/V Le Noroit
#PRINCIPAL_INVESTIGATOR_NAME: B.Bourles,Y.Gouriou
#PI_INSTITUTION: Institut Francais de Recherche Scientifique pour le Developpement en Cooperation (ORSTOM)
#PI_COUNTRY: France
#PROJECT: WOCE (Repeat Survey)
#CRUISE_NAME: ship_tag=ETAMBOT1 woce_tag=AR04,AR15
#EXPOCODE=35LLETAMBOT1_1,35LLETAMBOT1_2
#PORTS: 1st leg: Cayenne (French Guiana) to Natal (Brazil)  
2nd leg: Natal (Brazil) to Cayenne (French Guiana)
#GEOGRAPHIC_REGION: Western tropical Atlantic
#PROCESSED_BY: B.Bourles, ORSTOM
#NAVIGATION: GPS
#QUALITY_NAV: good
#GENERAL_INFORMATION:
CRUISE NOTES
CHIEF SCIENTIST ON SHIP     : Yves Gouriou
INSTITUTE                 : ORSTOM
COUNTRY                   : France
SPECIAL SHIP TRACK PATTERNS : WOCE Repeat Survey AR15, AR04E, and AR04W
COMMENTS:

The principal objectives of the cruise were:
To estimate the inter-hemispheric transport of heat, freshwater, nutrients, CO2, and CFCs in a key region of the Atlantic ocean. _ To estimate the seasonal variability of the deep circulation. A second cruise, ETAMBOT 2, have been made in an opposite season. _ To repeat the survey of the western equatorial Atlantic ocean made during the CITHER 1 cruise in January—March 1993 (Western part of the A6 section).

ADCP INSTRUMENTATION
MANUFACTURER                : RDI
HARDWARE MODEL              : RD-VM150
SERIAL NUMBERS              :
TRANSMIT FREQUENCY          : 153 kHz
TRANSDUCER CONFIGURATION    : JANUS CONCAVE
TRANSDUCER BEAM ANGLE       : 30 deg.
COMMENTS                    :

ADCP INSTALLATION
METHOD/DESCRIPTION OF THE ATTACHMENT TO THE HULL : Transducer is mounted in a well, filled with fresh water and closed by a Kevlar acoustic window
LOCATION/DEPTH ON HULL : located to the port side around the vessel centerline at 4 meters depth.
REPEATABLE ATTACHMENT : unconfirmed
DATE OF MOST RECENT ATTACH. : unconfirmed
ACOUSTIC WINDOW : yes
COMMENTS                    :

ADCP INSTRUMENT CONFIGURATION
DEPTH RANGE                 : 16-400m
BIN LENGTH                  : 8m
NUMBER OF BINS              : 50
TRANSMIT PULSE LENGTH       : 8m
BLANKING INTERVAL           : 4m
ENSEMBLE AVERAGING INTERVAL : 5 min
SOUND SPEED CALCULATION     : FUNCTION OF TEMP AT TRANSDUCER
BOTTOM TRACKING : No
DIRECT COMMANDS : No
COMMENTS :

ADCP DATA ACQUISITION SYSTEM
SOFTWARE DEVELOPERS : RDI
SOFTWARE VERSIONS : DAS v2.48
DATA LOGGER, MAKE/MODEL : RDI Deck Unit, Compaq 286e computer.
ADCP/LOGGER COMMUNICATION : HPIB
USER BUFFER VERSION : 720
CLOCK : PC clock, periodically corrected to GPS
clock
COMMENTS :

SHIP HEADING
INSTRUMENT MAKE/MODEL : ARMA-BROWN
SYNCHRO OR STEPPER : stepper converted to synchro
SYNCHRO RATIO : 1/1
COMPENSATION APPLIED : for speed and latitude
GPS ATTITUDE SYSTEM : NO
LOCATION OF ANTENNAS :
RIGID ATTACHMENT :
LOGGING RATE :

ANCILLARY MEASUREMENTS
SURFACE TEMP AND SALINITY : yes, thermosalinograph
PITCH/ROLL MEASUREMENTS : No
HYDRO CAST MEASUREMENTS : Yes
COMMENTS :

ADCP DATA PROCESSING/EDITING
PERSONNEL IN CHARGE : Bernard Bourles
DATE OF PROCESSING : 1999
ADDED TO NODC DB : JUNE 1999
COMMENTS :

NAVIGATION
TRANSIT :
MAKE/MODEL :
LOGGED WITH ADCP DATA :
COMMENTS :
GPS :
MAKE/MODEL : 1st part of cruise: Magnavox 4200
2nd leg: NALNO GPS
SELECTIVE AVAILABILITY : YES
P-CODE : NO
DIFFERENTIAL : NO
SAMPLE INTERVAL : about 1s.
LOCATION OF ANTENNA
RELATIVE TO TRANSDUCER : about 14m above, 2m to starboard
TIME OBTAINED RELATIVE TO
START/END OF ENSEMBLE :
AVERAGING/EDITING APPLIED :
LOGGED WITH ADCP DATA : YES , user-exit program
LOGGED INDEPENDENTLY : NO
COMMENTS :
OTHER :

CALIBRATION
GYROCOMPASS CORRECTION : NO
BOTTOM TRACK METHOD : NO
WATER TRACK METHOD : YES
COMMENT : The currents velocity is calibrated using
the Pollard and Read (1989) standard
procedure.
FINAL SELECTION :
amplitude = 1.0 phase = -1.8
COMMENTS :
NAVIGATION CALCULATION
NAVIGATION USED: GPS
REFERENCE LAYER DEPTH RANGE: bins 5-15
FILTERING METHOD FOR
SMOOTHING REFERENCE LAYER VELOCITY (FORM/WIDTH): Blackmann window.
FINALIZED SHIP VEL/POSITIONS STORED IN DATABASE: YES
COMMENTS:

QUALITY ASSESSMENT
ON-STATION VS. UNDERWAY:
VECTOR, CONTOUR, STICK PLOTS:
COMMENTS:

REFERENCES (DATA REPORTS, ETC):