#DATA_DATES: 1998/06/16 15:42:00 --- to --- 1998/07/14 14:37:00
#LON_RANGE:  18.02 W --- to ---   9.50 W
#LAT_RANGE:  28.17 N --- to ---  37.84 N
#DEPTH_RANGE:     21 --- to --- 525 m
#SAC_CRUISE_ID: 00476
#PLATFORM_NAME: R/V Meteor
#PRINCIPAL_INVESTIGATOR_NAME: T.J. Mueller
#PI_INSTITUTION: Institute fur Meereskunde an der Universitat Kiel
#PI_COUNTRY: Germany
#PROJECT: WOCE (Repeat Survey); CANIGO (CANary Islands Azores Gibraltar Observations)
#CRUISE_NAME: ship_tag=M421 woce_tag=AR26 EXPOCODE=06MT42_1
#PORTS: Lisbon, Portugal to Las Palmas, Canary Islands
#GEOGRAPHIC_REGION: north Atlantic off NW Africa
#PROCESSED_BY: Institut fuer Meereskunde, Kiel
#NAVIGATION: GPS
#QUALITY_NAV: good; GPS attitude system for heading
#GENERAL_INFORMATION:

CRUISE NOTES
CHIEF SCIENTIST ON SHIP     : T.J.Mueller
INSTITUTE                 : Institute fur Meereskunde Kiel
COUNTRY                   : Germany
SIGNIFICANT DATA GAPS:
SPECIAL SHIP TRACK PATTERNS:
COMMENTS:

ADCP INSTRUMENTATION
MANUFACTURER                : RDI
HARDWARE MODEL              : 150
SERIAL NUMBERS              :
FIRMWARE VERSION            :
TRANSMIT FREQUENCY          : 153.6 kHz
TRANSDUCER CONFIGURATION    : JANUS CONCAVE
COMMENTS:

ADCP INSTALLATION
METHOD/DESCRIPTION OF THE ATTACHMENT TO THE HULL : The transducers were installed in the front hull to reduce noise by propeller cavitation.
LOCATION/DEPTH ON HULL      : Transducer depth at nominally 5 m
REPEATABLE ATTACHMENT       :
DATE OF MOST RECENT ATTACH. :
ACOUSTIC WINDOW             :
COMMENTS:

ADCP INSTRUMENT CONFIGURATION
DEPTH RANGE                 : 21 to 525 m
BIN LENGTH                  : 8 m
NUMBER OF BINS              : 64
TRANSMIT PULSE LENGTH       : 16 m
BLANKING INTERVAL           : 4 m
ENSEMBLE AVERAGING INTERVAL : 300 s
SOUND SPEED CALCULATION     : function of transducer temperature
BOTTOM TRACKING             : unconfirmed
COMMENTS:

ADCP DATA ACQUISITION SYSTEM
SOFTWARE DEVELOPERS         : RDI
SOFTWARE VERSIONS           : DAS 2.48
DATA LOGGER, MAKE/MODEL      : PC
ADCP/LOGGER COMMUNICATION   :
USER BUFFER VERSION         : unconfirmed
CLOCK                       : unconfirmed
COMMENTS:

SHIP HEADING
INSTRUMENT MAKE/MODEL       : gyro
SYNCHRO OR STEPPER : 
SYNCHRO RATIO : 
COMPENSATION APPLIED : no 
GPS ATTITUDE SYSTEM : yes 
LOCATION OF ANTENNAS : 
RIGID ATTACHMENT : 
LOGGING RATE : 

ANCILLARY MEASUREMENTS
SURFACE TEMP AND SALINITY : unconfirmed 
PITCH/ROLL MEASUREMENTS : 
HYDRO CAST MEASUREMENTS : yes 
BIOMASS DETERMINATION : no 
DATE OF LAST CALIBRATION : 
CALIBRATION COEFFICIENTS : 
BEAM-AVERAGED AGC AVAILABLE?: 
CALIBRATION NET TOWS? : 
COMMENTS : 

ADCP DATA PROCESSING/EDITING
PERSONNEL IN CHARGE : T.J.Mueller 
DATE OF PROCESSING : 
ADDED TO NODC DB : OCT 2000 
NOTABLE SCATTERING LAYERS : 
COMMENTS : 
Profile editing performed using CODAS software. Bottom reflection and wire interference cleaned as necessary.

NAVIGATION
GPS : YES 
MAKE/MODEL : Magnavox 
SELECTIVE AVAILABILITY : 
P-CODE : 
DIFFERENTIAL : no 
SAMPLE INTERVAL : 
LOCATION OF ANTENNA RELATIVE TO TRANSDUCER : 
TIME OBTAINED RELATIVE TO START/END OF ENSEMBLE : unconfirmed 
AVERAGING/EDITING APPLIED : yes, bad fixes edited out 
LOGGED WITH ADCP DATA : yes 
LOGGED INDEPENDENTLY : yes 
COMMENTS : 

CALIBRATION
GYROCOMPASS CORRECTION : yes, GPS attitude system 
BOTTOM TRACK METHOD : No 
WATER TRACK METHOD : YES, misalignment=?, scale=1.0034 

NAVIGATION CALCULATION
NAVIGATION USED : GPS 
REFERENCE LAYER DEPTH RANGE : unconfirmed 
FILTERING METHOD FOR SMOOTHING REFERENCE LAYER VELOCITY (FORM/WIDTH) : Blackman window function 
FINALIZED SHIP VEL/POSITIONS STORED IN DATABASE : YES 
COMMENTS :

GENERAL_ASSESSMENT : OK 
ON-STATION VS. UNDERWAY : OK 
VECTOR, CONTOUR, STICK PLOTS: OK 
COMMENTS : OK 

REFERENCES (DATA REPORTS,ETC.) :