OCEAN Metadata Report

Help

QUERY:
Investigator = "cai, wei-jun" from OCEAN Underway

Current Database: OCEAN Underway

Dataset ID: South Atlantic Bight (SAB) Data
Investigator(s):
  Name: Cai, Wei-Jun
  Organization: University of Georgia
  Address: Dept. Marine Sciences University of Georgia Athens, GA 30602 USA
  Email: wcai@uga.edu

Dataset Info:
  Dataset ID: South Atlantic Bight (SAB) Data
  Submission Dates:
    Initial Submission: 20070821
    Revised Submission: 20070821

Cruise Info:
  Experiment:
    Experiment Name: Sea surface pCO2 survey on the South Atlantic Bight
    Cruise:
      Cruise ID: 32KZ20050105
    Section:
      SAB US South-East Coast
  Geographical Coverage:
    Geographical Region: Atlantic Ocean
    Bounds: W: -81.5 E: -77 N: 35 S: 28
  Temporal Coverage:
    Start Date: 20050105 End Date: 20060527

Vessal:
  Vessal Name: R/V Cape Hatteras
  Vessal ID: USA
  Vessel Owner:
    National Science Foundation and assigned through a Charter Party Agreement to the Duke/University of North Carolina Oceanographic Consortium

Variables Info:
  Variable:
    Variable Name | Description of Variable
    xCO2w | ppm
    Air pressure | mb
    Temperature of equilibration | deg.C
    SST | deg.C
    SSS

Method Description:
  Equilibrator Design:
  Equilibrator Type: Shower spray head with lamination
  Equilibrator Volume:
  Water Flow Rate: 4
Headspace Gas Flow Rate: 0.1
Vented: No
Measurement Method: NDIR gas analyze
Manufacturer of Calibration Gas: National Specialty Gases

CO2 Sensors:
Manufacturer: Li-Cor
Model: LI7000

Environmental Control:
Resolution: 
Uncertainty: 

CO2 Sensor Calibration: The LI-COR 7000 was calibrated every 6 hours using certified gas standards, which had xCO2 values of 201.51, 350.30, and 499.60 ppm referenced against standards traceable to those of the National Institute of Standards and Technology (NIST). The water temperature right before the equilibration chamber was recorded with a YSI® temperature sensor.

Method References:


Data Set Link(s): SAB Data