Cruise: ABACO, Eastern Boundary Current

Ship: R/V Ronald H. Brown Dates: February 11 – 14, 2003 Expocode: 33RO20030206 Chief Scientist: Molly Baringer

**Equipment**: 24 bottle CTD with dual C, T, and O2 sensors and LADCP

**Number of Stations: 54** 

## Sample Collection

## DIC:

5 stations, 62 samples each 500-ml, 6 sets of duplicate samples

PI: Dr. Rik Wanninkhof, AOML Analyzed by: Esa Peltola, AOML

**O2:** O2 in umol/kg

# Sample Analysis

#### DIC:

Analysis Date: February 7 – 14, 2003. Coulometers used: AOML1 and AOML2

Blank range: 12.0-29.8 counts/min

CRM # used and assigned value (include both DIC and salinity): Batch 42, c:1985.1

umol/kg, S:33.364; and Batch 43, c:1988.64 umol/kg, S:33.598.

CRM value measured: AOML 1: offset 0.9 umol/kg (1985.99 umol/kg, Batch 42)

AOML-2: offset 2.2 umol/kg (1982.9 umol/kg, Batch 42; offset 1.7 umol/kg (1983.4 umol/kg, Batch 43)

The average run time was 9 minutes, the minimum run time was 8 minutes and the maximum run time was 20 minutes.

Reproducibility: (# samples and average difference): 6 sets of duplicate samples, average difference 2.1 umol/kg.

CRM, salinity and HgCl2 correction applied: yes

Remarks-

The salinity sensor did not work on AOML1.

## **Comments**

The Sample\_ID is the rosette niskin bottle number from which the discrete samples were drawn.

# UPDATE:

Between March and June of 2021, all of the data for the discrete samples was put into a uniform format. The supporting information was checked for accuracy, especially the expocode, date, time, and positions.