

Cruise: EX0839

Dates: December 2 - 8, 2008

Expocode: 33KF20081201

Chief Scientists: not applicable

Equipment: Surface samples collected.

Total number of stations: VOS Underway Cruise

Chemical measurements:

DIC: 18 locations, 20 samples each 500-ml, 2 duplicate samples

PI: Dr. Rik Wanninkhof

Collected by:

Analyzed by: Esa Peltola

Salinity: Salinity from the ship's thermosalinograph on the Practical Salinity Scale

TALK:

PI:

Analyzed by:

Details:

DIC:

Analysis date: February 10, 2009

Coulometer used: AOML2

Blank range: 29.7 - 35 counts/min

CRM # used and assigned value (include both DIC and salinity): Batch 80, c: 2006.5
umol/kg,S: 33.357

CRM value measured: AOML 2: offset 4.2 umol/kg (2010.7 umol/kg)

Average run time, minimum run time, maximum run time: 17 min, 9 min, 20 min

Reproducibility: (# samples and average difference): 2 sets of duplicate samples, average difference 2.8 umol/kg

CRM, salinity and HgCl₂ correction applied: Salinity correction was applied using TSG salinity; CRM and HgCl₂ volume correction was applied

Location of analyses files: Esa's computer file/directory/name: Documents/DICE/Lab Studies/2009 (2) Explorer(Texas) /

Remarks-

The volume correction was applied due to added HgCl₂ (Measured DIC*1.00037).

The first CRM of each cell was used for a CRM correction.

There was a power spike in the building during sample runs 89 and 90. The DIC values for these samples were calculated using the latest coulometer counts. The samples were marked with QC 3.

The DIC value of sample 78 was too low and it was marked with QC 4. Either the sample bottle had leaked or the analyzer had an acid delivery problem.

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.