

Cruise: EX0801E
Dates: February 21 – March 3, 2008
Expocode: 33KF20080213
Chief Scientists: not applicable
Equipment: Surface samples collected.
Total number of stations: VOS Underway Cruise

Chemical measurements:

DIC: 16 locations, 20 samples each 500-ml, 4 duplicate samples
PI: Dr. Rik Wanninkhof
Collected by: Elizabeth Williams
Analyzed by: Esa Peltola

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

TALK:

PI: Dr. Rik Wanninkhof
Collected by: Elizabeth Williams
Analyzed by: Denis Pierrot

Details:

DIC:

Analysis date: September 24-29, 2008
Coulometer used: AOML2
Blank range: 27-29.7 counts/min, sample #81: 40 counts/min
CRM # used and assigned value (include both DIC and salinity): Batch 86, c: 1988.37
umol/kg,S: 33.097
CRM value measured: AOML 2: offset 5.7 umol/kg (1994.1 umol/kg)

Average run time, minimum run time, maximum run time: 13.8 min, 10 min, 20 min
Reproducibility: (# samples and average difference): 4 sets of duplicate samples, average difference 1.5 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: My

Documents/SOMMA/Lab Studies/2008 (2) Explorer /

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 for samples 81 and 93-100.

For samples 82-92 CRM run in the end of the cell was used for corrections.

There was a good agreement between the duplicate samples.

Samples 81 and 100 were marked questionable due to 20 minute titrations.

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.