

Cruise: EX0534E
Dates: August 21 - 28, 2005
Expocode: 33KF20050821
Chief Scientists: not applicable
Equipment: Surface samples collected.
Total number of stations: VOS Underway Cruise

Chemical measurements:

DIC: 10 locations, 20 samples each 500-ml
PI: Dr. Rik Wanninkhof
Collected by: Kevin Sullivan
Analyzed by: Esa Peltola

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

Details:

DIC:

Analysis date: September 7, 2005
Coulometers used: AOML1 and AOML2
Blank range: 15.7-27.3 counts/min
CRM # used and assigned value (include both DIC and salinity): Batch 59, c: 2007.1 umol/kg,S: 33.316
CRM value measured: AOML 1: offset 5.4 umol/kg (2001.7 umol/kg)
AOML-2: offset 7.5 umol/kg (1999.6 umol/kg)
Average run time, minimum run time, maximum run time: 13 min, 10 min, 16 min
Reproducibility: (# samples and average difference): 10 sets of duplicate samples, average difference 1.1 umol/kg
CRM, salinity and HgCl₂ correction applied: Salinity correction was not necessary, CRM and HgCl₂ volume correction was applied
Location of analyses files: Esa's computer file/directory/name: My Documents/SOMMA/Lab Studies/2005 (8) Explorer Kevin Sullivan/
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 good agreement between the duplicate samples.

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.

