

Cruise: EX0645S
Dates: November 4 - 12, 2006
Expocode: 33KF20061104
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, 20 duplicate samples
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: December 4, 2006
Coulometers used: AOML1 and AOML2
Blank range: 13.4-28.6 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 10.6 umol/kg (2017.7 umol/kg)
AOML-2: offset 10.1 umol/kg (2017.2 umol/kg)
Average run time, minimum run time, maximum run time: 10 min, 8 min, 17 min
Reproducibility: (# samples and average difference): 10 sets of duplicate samples,
average difference 1.6 umol/kg
CRM, salinity and HgCl₂ correction applied: Salinity correction was applied for the
AOML1 samples, the AOML2 samples were calculated 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/2006 (12) 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.
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.