

**Cruise:** EX0520E  
**Dates:** May 15 - 22, 2005  
**Expocode:** 33KF20050516  
**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, 10 duplicates  
PI: Dr. Rik Wanninkhof  
Collected by: Heike Lueger  
Analyzed by: Esa Peltola

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

**TALK:** 10 locations, 20 samples each 500-ml, 10 duplicates  
PI: Dr. Frank Millero  
Collected by: Heike Lueger  
Analyzed by: Fen Huang

**Details:**

**DIC:**  
Analysis date: August 2, 2005  
Coulometers used: AOML1 and AOML2  
Blank range: 19.8-28.2 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 3.9 umol/kg ( 2011.0 umol/kg)  
AOML-2: offset 0.8 umol/kg ( 2007.9 umol/kg)  
Average run time, minimum run time, maximum run time: 12 min, 9 min, 19 min  
Reproducibility: (# samples and average difference): 10 sets of duplicate samples,  
average difference 1.1 umol/kg  
CRM, salinity and HgCl<sub>2</sub> correction applied: yes  
Location of analyses files: Esa's computer file/directory/name: My  
Documents/SOMMA/Lab Studies/2005 (5) Explorer Heike Lueger

Remarks-

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

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.

Additionally, pH results were recalculated to 20 and 25 degrees Celsius.