

Cruise: SKO0313

Dates: December 6 - 10, 2003

Expocode: AGSK20031205

Chief Scientists: not applicable

Equipment: Surface samples collected next to TSG from ship's engine cooling water.

Total number of stations: VOS Underway Cruise

Chemical measurements:

DIC: 15 locations, 24 samples each 500-ml, 14 duplicate samples

PI: Dr. Rik Wanninkhof

Collected by: Kevin Sullivan

Analyzed by: Esa Peltola

Salinity: 4 locations, 19 samples each 500-ml

Collected by: Kevin Sullivan

Analyzed by: NEFSC Narragansett Lab

Details: Six samples were collected once a minute at the first three locations. The remaining five samples were collected once a minute at the fourth location.

DIC:

Analysis date: April 27-28, 2004

Coulometer used: AOML1

Blank range: 13.4-26.0 counts/min

CRM # used and assigned value (include both DIC and salinity): Batch 45, c:1994.17
umol/kg,S:33.487

CRM value measured: AOML 1: offset 4.9umol/kg (1999.0 umol/kg)

Average run time, minimum run time, maximum run time: 10 min, 8 min, 18 min

Reproducibility: (# samples and average difference): 7 sets of duplicate samples, average difference 0.5 umol/kg

CRM, salinity and HgCl₂ correction applied: yes

Location of analyses files: Esa's computer file/directory/name: My Documents/SOMMA/Lab Studies/2004 (4) Skogafoss Sullivan SKO313 and Pierrot SKO406/

Salinity:

Analysis date: May, 2004

Reproducibility: The average salinity and standard deviations were

35.123 (+/-0.002) psu , 0.007%

34.978 (+/-0.076) psu , 0.217%

34.817 (+/-0.002) psu , 0.006%

34.792 (+/-0.004) psu , 0.011%

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.