

**Cruise:** SKO0414

**Dates:** October 16 - 22, 2004

**Expocode:** AGSK20041015

**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:** 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

**Calculated Salinity:** 8 locations, 16 samples each 180-ml, 8 duplicates

PI:

Collected by: Kevin Sullivan

Analyzed by: Magnus Danielsen, Icelandic Marine Research Institute

**TALK:**

PI: Dr. Frank Millero

Collected by: Kevin Sullivan

Analyzed by: Fen Huang

**Details:**

**DIC:**

Analysis date: Nov 12, 2004

Coulometers used: AOML1 and AOML2

Blank range: 17.7-24.3 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 4.1 umol/kg (2003.1 umol/kg)

AOML-2: offset 0.5 umol/kg (2006.7 umol/kg)

Average run time, minimum run time, maximum run time: 15 min, 9 min, 20 min

Reproducibility: (# samples and average difference): 10 sets of duplicate samples, average difference 1.2 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/2004 (10) Skogafoss Sullivan SKO414/

**Calculated Salinity:**

Analysis date: November 2004

Reproducibility:

The average and standard deviations of the eight duplicates are:

35.105 (+/- 0.003)

35.113 (+/- 0.015)

34.940 (+/- 0.002)

34.773 (+/- 0.001)

34.637 (+/- 0.001)

34.320 (+/- 0.020)

33.456 (+/- 0.004)

30.516 (+/- 0.008)

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.