

Cruise: SKO604
Dates: April 19-28, 2006
Expocode: AGSK20060403
Chief Scientists: N/A
Equipment: N/A
Total number of stations: UW

Chemical measurements:

DIC: 23 samples each 500-ml, 10 duplicates
PI: Rik Wanninkhof
Collected by: Kevin Sullivan
Analyst: Esa Peltola

Details:

DIC-

Analysis dates: May 15, 2006
Coulometers used: AOML1 and AOML2
Blank range: 18.8-26.5 counts/min
CRM # used and assigned value (include both DIC and salinity): Batch 66, c:1969.57
umol/kg,S:32.997
CRM value measured: AOML 1: offset 8.0 umol/kg (1961.5 umol/kg)
AOML-2: offset 6.3 umol/kg (1963.3 umol/kg)
Average run time, minimum run time, maximum run time: 13 min, 9 min, 20 min
Reproducibility: (# samples and average difference): 22 duplicate samples, average difference
1.6 umol/kg
CRM Salinity and HgCl₂ correction applied: yes
Location of analyses files: Esa's computer file/directory/name: My Documents/SOMMA/Lab
Studies/2006(4) Skogafoss SKO604/
Remarks-

A density correction was applied for all the samples.
The volume correction was applied due to added HgCl₂ (Measured DIC*1.00037).
The average CRM correction was 7.1 umol/kg and was run in the beginning and end of the cell.
The first CRM of each cell was used for a CRM correction.
There was a good agreement between the duplicate samples, except samples S09 and S10. Also
S13 differs from samples S11 and S12. No reason for these differences were found due to
analysis. All 23 samples were sent to Millero's lab for alkalinity analysis

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.