Cruise: Reykjafoss_2010
Ship: Reykjafoss
Expocode: 64RJ20100821
Dates: August 21 – August 24, 2010
Chief Scientist: Sampled by French observer
Equipment: sampled from underway line on Reykjafoss
Total number of stations: 0 all underway

Sample Collection

The discrete samples were collected by a French observer hired by Gilles Reverdin. Surface samples were collected from intake on the Reykjafoss that is tapped from the ship’s engine intake on board. Sampling collection followed SOP 1 in Dickson et al., (2007).

DIC:
10 locations, 20 samples, each 500-ml, 10 sets of duplicate samples
PI: Dr. Rik Wanninkhof
Analyzed by: Robert Castle

TArrk:
10 locations, 20 samples, each 500-ml, 10 sets of duplicate samples
PI: Dr. Rik Wanninkhof
Analyzed by: Leticia Barbero

Sample Analysis

DIC:
Analysis date: 12/09/2010
Coulomenter used: AOML2 (SOMMA #2)
Blank: min=12 counts/min; max = 20 counts/min; average = 17 counts/min

CRM # used and assigned value (include both DIC and salinity):
Meas CRM  cert CRM  meas sal  cert sal  batch
1986.74  2000.44  32.984  33.326  85

Run time: min=9 min; max = 15 min; average = 10 min

Reproducibility: (# samples and average difference): 10 sets of duplicate samples, average difference 1.7 umol/kg +/- 1.3 umol/kg
CRM, salinity and HgCl2 correction applied: Salinity correction was applied using TSG salinity
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.
match up with the underway DIC and TA samples

**Talk:**
The results posted are duplicate analyses from the same sample bottles used for DIC.
Analysis date: 12/17/2010
Titration system used: Open cell

CRM # used and assigned value:
Meas CRM  cert CRM  batch
2169.01  2214.49  80

Reproducibility: (# samples and average difference): 10 sets of duplicate samples, average difference 2.2 umol/kg ± 3.8 umol/kg
CRM correction applied
The first and last CRMs were 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.