

Dataset Expocode 320G20120802

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Dataset **Funding Info:**
Initial Submission (yyyymmdd):
Revised Submission (yyyymmdd):

Campaign/Cruise **Expocode:** 320G20120802
Campaign/Cruise Name:
Campaign/Cruise Info:
Platform Type:
CO2 Instrument Type: SAMI AFT
Survey Type: Research Cruise
Vessel Name: Weatherbird II
Vessel Owner: FIO
Vessel Code: 320G

Coverage **Start Date (yyyymmdd):** 20120802
End Date (yyyymmdd): 20120812
Westernmost Longitude: 89 W
Easternmost Longitude: 82.5 W
Northernmost Latitude: 30.5000 N
Southernmost Latitude: 27.0000 N
Port of Call: Bayboro Harbor, Saint Petersburg

Variable **Name:** pCO₂, partial pressure of seawater carbon dioxide
Unit:
Description: uatm

Sea Surface Temperature **Location:** Bow, 1 m
Manufacturer:
Model:
Accuracy: (°C if units not given)
Precision: (°C if units not given)
Calibration:
Comments: Shipboard

Sea Surface Salinity **Location:** Bow, 1 m
Manufacturer:
Model:
Accuracy:
Precision:
Calibration:
Comments: Shipboard

Atmospheric Pressure	Location: Normalized to Sea Level: yes Manufacturer: Model: Accuracy: (hPa if units not given) Precision: (hPa if units not given) Calibration: Comments:
Atmospheric CO2	Measured/Frequency: no Intake Location: Drying Method: Atmospheric CO2 Accuracy: Atmospheric CO2 Precision:
Aqueous CO2 Equilibrator Design	System Manufacturer: SAMI AFT CO2 Intake Depth: 1 Intake Location: Bow Equilibration Type: Equilibrator Volume (L): Headspace Gas Flow Rate (ml/min): Equilibrator Water Flow Rate (L/min): 2 Equilibrator Vented: No Equilibration Comments: Drying Method:
Aqueous CO2 Sensor Details	Measurement Method: gas permeable membrane and spectrophotometric dye detection Method details: dye Manufacturer: Sunburst Sensores Model: AFT Measured CO2 Values: pCO2(wet) Measurement Frequency: Every 5 min Aqueous CO2 Accuracy: 3 part per million (ppm) Aqueous CO2 Precision: 1 part per million (ppm) Sensor Calibrations: Conducted by Sunburst Sensors Calibration of Calibration Gases: Number Non-Zero Gas Standards: Calibration Gases: Comparison to Other CO2 Analyses: Comments: Method Reference: Degreanpre et al., 1995; 2000 Kortzinger et al. 2008
Equilibrator Temperature Sensor	Location: Manufacturer: Model: Accuracy: (°C if units not given) Precision: (°C if units not given) Calibration: Comments:
Equilibrator Pressure Sensor	Location: Manufacturer:

Model:

Accuracy: (hPa if units not given)

Precision: (hPa if units not given)

Calibration:

Comments:

Suggested QC flag from Data Provider: NE

Additional Comments:

Citation for this Dataset:

Other References for this Dataset:

**Additional
Information**