

Dataset Expocode 91AH20121206

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Initial Submission (yyyymmdd): 20160131
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Campaign/Cruise **Expocode:** 91AH20121206
Campaign/Cruise Name: SOSCEXIII_WINTER2015
Campaign/Cruise Info:
Platform Type:
CO2 Instrument Type: Equilibrator-IR or CRDS or GC
Survey Type: Research Cruise
Vessel Name: SAAgulhasII
Vessel Owner:
Vessel Code: 91AH

Coverage **Start Date (yyyymmdd):** 20121206
End Date (yyyymmdd): 20150814
Westernmost Longitude: 37 W
Easternmost Longitude: 18 E
Northernmost Latitude: 33 S
Southernmost Latitude: 67 S
Port of Call: Cape Town

Sea Surface Temperature **Location:** 5m below surface, ships hull
Manufacturer: SBE
Model: SBE-38
Accuracy: 0.001 (°C if units not given)
Precision: 0.001 (°C if units not given)
Calibration: Serialnumber: 38425330275
Comments:

Sea Surface Salinity **Location:**
Manufacturer:
Model:
Accuracy:
Precision:
Calibration:
Comments:

Atmospheric Pressure **Location:** Ship bridge
Normalized to Sea Level: yes
Manufacturer: Vaisala

Model: Baro Pressure
Accuracy: 0.15hpa (hPa if units not given)
Precision: 0.2hpa (hPa if units not given)
Calibration: yes, calibration number CSANAS1956.998
Comments:

Atmospheric CO2

Measured/Frequency:
Intake Location:
Drying Method:
Atmospheric CO2 Accuracy: 0.5 uatm
Atmospheric CO2 Precision: 0.5 uatm

**Aqueous CO2
Equilibrator Design**

System Manufacturer:
Intake Depth: 5
Intake Location: ship hull
Equilibration Type: spay/shower
Equilibrator Volume (L): 3
Headspace Gas Flow Rate (ml/min): 100
Equilibrator Water Flow Rate (L/min): 3
Equilibrator Vented: Yes
Equilibration Comments:
Drying Method: >99%

**Aqueous CO2
Sensor Details**

Measurement Method: IR
Method details:
Manufacturer: LICOR
Model: LICOR-7000
Measured CO2 Values: xCO2(dry)
Measurement Frequency: 60
Aqueous CO2 Accuracy: 1 uatm
Aqueous CO2 Precision: 0.5 uatm
Sensor Calibrations: LICOR IR sensor is calibrated using a range 4 of calibration gases calibrated by the Global Atmospheric Watch station at Cape Point, traceable to reference standards from NOAA
Calibration of Calibration Gases: Ship
Number Non-Zero Gas Standards: 3
Calibration Gases:
Cape Point Weather Station (South African Weather Services),
Comparison to Other CO2 Analyses:
Comments:
Method Reference:

**Equilibrator
Temperature Sensor**

Location: Resistance Thermometer, inserted inside the equilibrator
Manufacturer: Fluke
Model: Fluke 1521 (5610-6)
Accuracy: 0.01 (°C if units not given)
Precision: 0.01 (°C if units not given)
Calibration: Yes, documentation available
Comments:

**Equilibrator
Pressure Sensor**

Location: Attached to equilibrator cap/lid
Manufacturer: SETRA
Model: SETRA239
Accuracy: 74 (hPa if units not given)
Precision: 20 (hPa if units not given)

Calibration: yes,

Comments:

Suggested QC flag from Data Provider: NA

Additional Comments:

Citation for this Dataset:

Other References for this Dataset:

**Additional
Information**