

Discrete measurements (TCO₂, TALK, pCO₂, and pH) metadata form

(* = mandatory field)

Investigator*

- Name*: (example: Jones, Dr. Robert W.)

- Organization:

- Address:

- Phone:

- Email:

Dataset Info*

- Dataset ID*:

- Submission Dates*:

 Initial Submission: (yyyy/mm/dd)

 Revised Submission: (yyyy/mm/dd)

Cruise Info*

- Experiment:

 Experiment Name*:

- Cruise:

 Cruise ID: (Expocode)

 Section: (Leg)

- Geographical Coverage*:

 Geographical Region:

- Bounds*:

 Westernmost Longitude:
 Enter decimal fractions of degrees: (+ = E, - = W)
 or Degrees, Minutes, Seconds: East West

 Easternmost Longitude:
 Enter decimal fractions of degrees: (+ = E, - = W)
 or Degrees, Minutes, Seconds: East West

 Northernmost Latitude:
 Enter decimal fractions of degrees: (+ = N, - = S)
 or Degrees, Minutes, Seconds: North South

 Southernmost Latitude:
 Enter decimal fractions of degrees: (+ = N, - = S)
 or Degrees, Minutes, Seconds: North South

- Temporal Coverage:

 Start Date: (yyyy/mm/dd)

 End Date: (yyyy/mm/dd)

 Ports of Call: (One per line)

- Vessel*:

 Vessel Name:

 Vessel ID:

Country:	<input type="text" value="USA"/>
Vessel Owner:	<input type="text"/>
Variables Info:*	
Variable:	
Variable Name:*	<input type="text" value="TEMP"/>
Description of Variable: (units)	<input type="text" value="DEG C"/>
Total Variables in the Data Set:	<input type="text" value="10"/>
Method Description:*	
Total CO2 Data:	
TCO2 Analysis Method:	<input type="text" value="The TCO2 concentration in seawater samples was determined by the use of a coulometric system, which was modified from that described by Johnson et al. (1985)."/>
Standardization Technique:	
Technique Description	<input type="text"/>
Sample Volume: (mL)	<input type="text" value="250"/>
CRM Info:*	
Correction Magnitude:	<input type="text" value="10 UMOL/KG"/>
Batch Number: (One Used Batch Number per Line)	<input type="text" value="36"/>
CRM Analysis Info: (e.g., Refer to plots for CRMs)	<input type="text"/>
Field Replicate Info:	<input type="text"/>
Poisoning Info:	
Poisoning Correction Description: (e.g., Refer to plots for CRMs)	<input type="text" value="Bottled samples were poisoned with mercuric chloride solutions (100 µL for each 250 ml water sample) and analyzed for total CO2 during the expedition."/>
Poison Volume: (mL)	<input type="text" value="0.1"/>
Accuracy Info: (Estimate overall precision and accuracy, and why)	<input type="text" value="± 1 µmol/kg. Additional details on the TCO2 measurements are discussed in Chipman et al. (1992)."/>
Method References: (Publication(s) describing method)	<input type="text" value="Johnson, K. M., A. E. King, and M. Sirburth. 1985. Coulometric TCO2 analyses for marine studies: An introduction. Marine Chemistry 16:61-82."/>

Alkalinity:

Curve Fitting Method:

Type of Titration:

Description of Other Titration: (If other, please describe)

Cell Type:

CRM Scale:

Sample Volume: (mL)

Magnitude of Blank Correction:

Accuracy Info: (Estimate overall precision and accuracy, and why)

Method References: (Publication(s) describing method)

pCO2 Data:

Analysis:

pCO2 Analysis Method:

The discrete fCO2 system utilizes micro-porous membranes to measure the partial pressure of CO2 in discrete 0.5L seawater samples.

Sample Volume: (mL) 500

Headspace Volume: 60

Measurement Temperature: 20 deg C

Temperature Normalization:

Temperature Correction Method:

Variable Reported: fCO2 at in situ temperature

Gas: dry

Standard Gas Concentrations:

Frequency of Standardization:

Field Replicate Info:

Storage Method:

Accuracy Info: (Estimate overall precision and accuracy, and why)

Method References: (Publication(s) describing method)

Sweeney C. and T. Newberger, Discrete pCO2 measurements using micro-porous membrane equilibration, in prep.

pH Data:

pH Scale:

pH Analysis Method: (e.g., if electronic, what brand of electrode?)

Calibration Info:

Calibration Description:*

In Situ Temperature:*

Temperature of Analysis:*(Degrees C)

Temperature Normalization:*

In Situ Pressure*

Accuracy Info: (Estimate overall precision and accuracy, and why)

Method References: (Publication(s) describing method)

Additional information:

Data Set References: (Publication(s) describing data set)

Citation: (How to cite this data set)

Data Set Link:

URL:*

Label:*

Link Note: (Optional instructions or remarks)

Attach data file:

functions **tditem**

Please enter the anti-spam control words above:

[Get additional control words](#)