


CTD Cast Name	Cruise		CTD Number		Date	
	EX1104		CTD02		8/5/11	
Expedition Coordinator/ Science Team Lead	Kelley Elliott/Chris German					
General Area Descriptor	Cayman Islands					
Site Name	Von Damm					
Type of CTD Operation	<input type="checkbox"/> Vertical Cast		<input type="checkbox"/> Po-Go			
	<input type="checkbox"/> Tow-Yo		<input checked="" type="checkbox"/> Combination			
Target Position	18° 22.592'N		18° 22.591'N			
	081° 47.884'W		081° 47.892'W			
Deployment Time & Location	UTC Time	00:40				
	Latitude	18	°	22.591	'	N
	Longitude	81	°	47.892	'	W
Time & Location At Depth	UTC Time	01:23:27	Target Depth/Range		20 mab	
	Latitude	18	°	22.591	'	N
	Longitude	81	°	47.892	'	W
Recovery Time & Location	UTC Time	04:22	Maximum Depth (m)		2291 m	
	Latitude	18	°	22.328	'	N
	Longitude	81	°	48.388	'	W
CTD Sensor Data Acquired	<input checked="" type="checkbox"/> CTD <u>P 0905 T1 5001 T2 5017 C1 3449 C2 3451</u>					
	<input checked="" type="checkbox"/> ORP <u>08</u> Voltage Channel <u>05</u>					
	<input type="checkbox"/> LSS <u>12790</u> Voltage Channel <u>02</u> <input checked="" type="checkbox"/> LSS <u>12791</u> Voltage Channel <u>06</u>					
	<input type="checkbox"/> Dissolved Oxygen Voltage Channel <u>   </u> <input checked="" type="checkbox"/> Altimeter Voltage Channel <u>00</u>					
	<input type="checkbox"/> Other ( <i>specify</i> ) <u>                    </u> Voltage Channel <u>   </u> <u>                    </u> Voltage Channel <u>   </u>					
Water Samples Collected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No      If Yes, Number of Bottles Tripped: <u>20</u>					
Sample Processing	Sample Type(s): <u>Methane, TOC, Microbiology</u>					
	<input checked="" type="checkbox"/> Processed on board <input checked="" type="checkbox"/> Preserved <input checked="" type="checkbox"/> Chemicals <u>Formalin</u>					
	<input type="checkbox"/> None <input type="checkbox"/> Room Temp Storage <input type="checkbox"/> -80 Freezer <input checked="" type="checkbox"/> -20 Freezer <input checked="" type="checkbox"/> Refrigerator					
Data Archival	Tethys FTP site					

<b>Equipment Malfunctions</b>	Bottle 11 did not close—o-ring popped off bottom of bottle
<b>Special Notes</b>	
<b>Scientists Involved</b> (name / location / affiliation / email)	cgerman@whoi.edu & cmcintyre@whoi.edu (WHOI) Sarah.A.Bennett@jpl.nasa.gov (NASA-JPL), J. Kinsey (WHOI), J. Huber (MBL)

**Purpose of the CTD operation:** dispersing plume tracking at Von Damm vent site

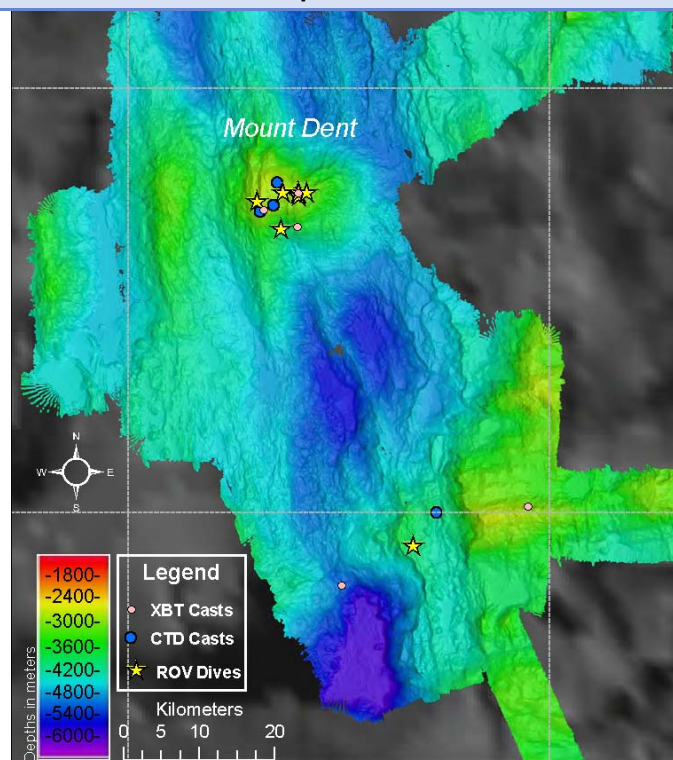
#### Description of the Data/Results:

Strong ORP signals at near bottom depths and plume height (2000m).

LSS and POTEMP at plume height only.

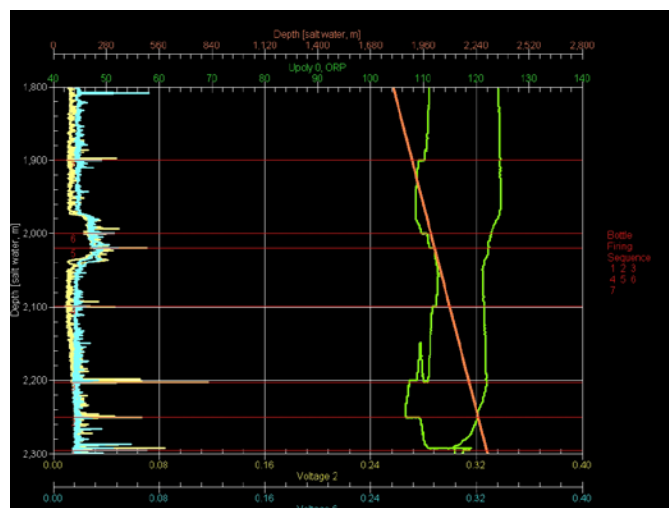
LSS, POTEMP and CH<sub>4</sub> traced to 1km from source by tow yo.

**Overall Map of CTD Cast Area**



*Overview of Cast site*

**Screen Grab of Data**



*SeaSave Data Acquisition Screen*

**Please direct inquiries to:**

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