


CTD Cast Name	Cruise		CTD Number		Date	
	EX1104		CTD03		8/7/11	
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° 21.71'N		18° 21.706'N			
	081° 49.63'W		081° 49.632'W			
Deployment Time & Location	UTC Time	00:00				
	Latitude	18	°	21.706	'	N
	Longitude	81	°	49.632	'	W
Time & Location At Depth	UTC Time	0045	Target Depth/Range		20 mab	
	Latitude	18	°	21.706	'	N
	Longitude	81	°	49.631	'	W
Recovery Time & Location	UTC Time	0456	Maximum Depth (m)		2410	
	Latitude	18	°	22.134	'	N
	Longitude	81	°	48.768	'	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					

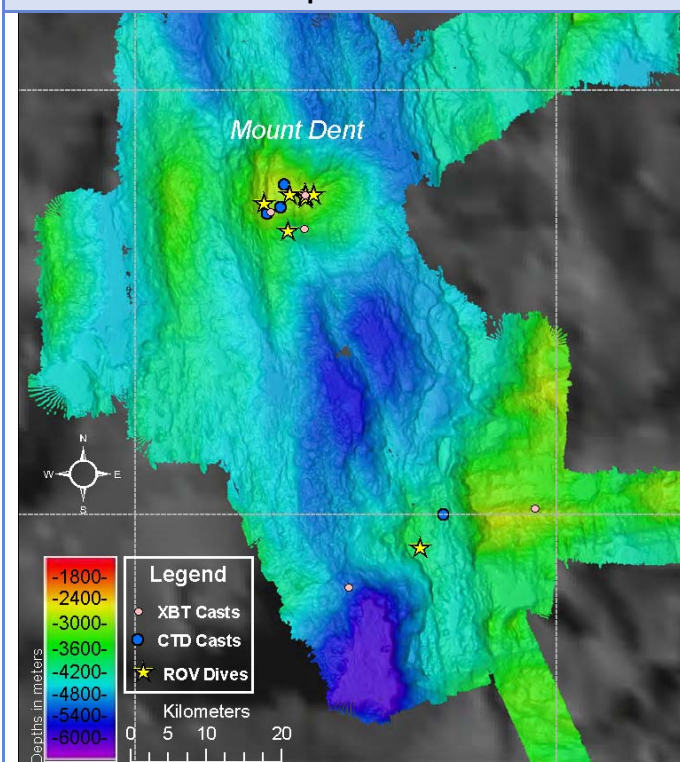
Equipment Malfunctions	Bottle 11 did not close, position 15 did not fire.
Special Notes	Tow yo reversed (SW-NE) due to weather
Scientists Involved (name / location / affiliation / email)	cgerman@whoi.edu & cmcintyre@whoi.edu (WHOI) Sarah.A.Bennett@jpl.nasa.gov (NASA-JPL), J. Kinsey (WHOI), J. Huber (MBL)

Purpose of the CTD operation: Tracking the Von Damm plume toward Europa.

Description of the Data/Results:

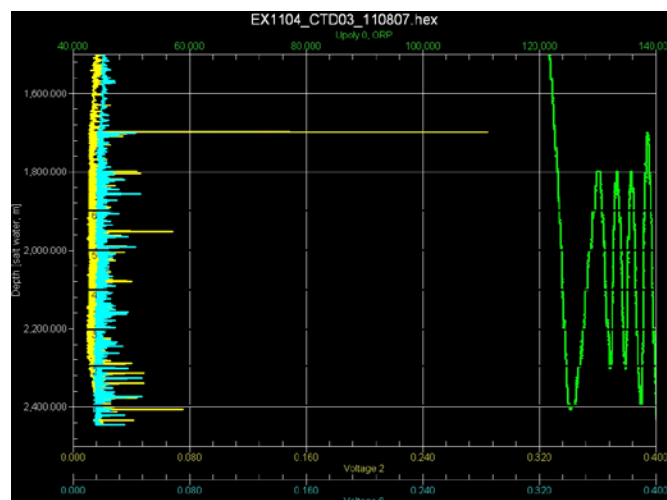
No signals in LSS for entire cast.
Signal in final ORP upcast only.
CH₄ anomalies at all 3 Pogo legs.
Plume traced to end point, 4 km from source.

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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