

anCTD Cast Name	Cruise		CTD Number		Date	
	EX1104		CTD07		8/14/11	
Expedition Coordinator/ Science Team Lead	Kelley Elliott/Chris German					
General Area Descriptor	Cayman Islands					
Site Name	Mt Doom					
Type of CTD Operation	<input checked="" type="checkbox"/> Vertical Cast		<input type="checkbox"/> Po-Go			
	<input type="checkbox"/> Tow-Yo		<input type="checkbox"/> Combination			
Target Position	18° 22.59'N					
	081° 47.91'W					
Deployment Time & Location	UTC Time	2351				
	Latitude	18	°	22.59		N
	Longitude	81	°	47.896		W
Time & Location At Depth	UTC Time	0037	Target Depth/Range		2300/20 mab	
	Latitude	18	°	22.589		N
	Longitude	81	°	47.896		W
Recovery Time & Location	UTC Time	0358	Maximum Depth (m)		2324	
	Latitude	18	°	22.589		N
	Longitude	81	°	47.900		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, Microbes (cell counts)</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 checked="" type="checkbox"/> -80 Freezer <input checked="" type="checkbox"/> -20 Freezer <input checked="" type="checkbox"/> Refrigerator					
Data Archival	Tethys FTP site					

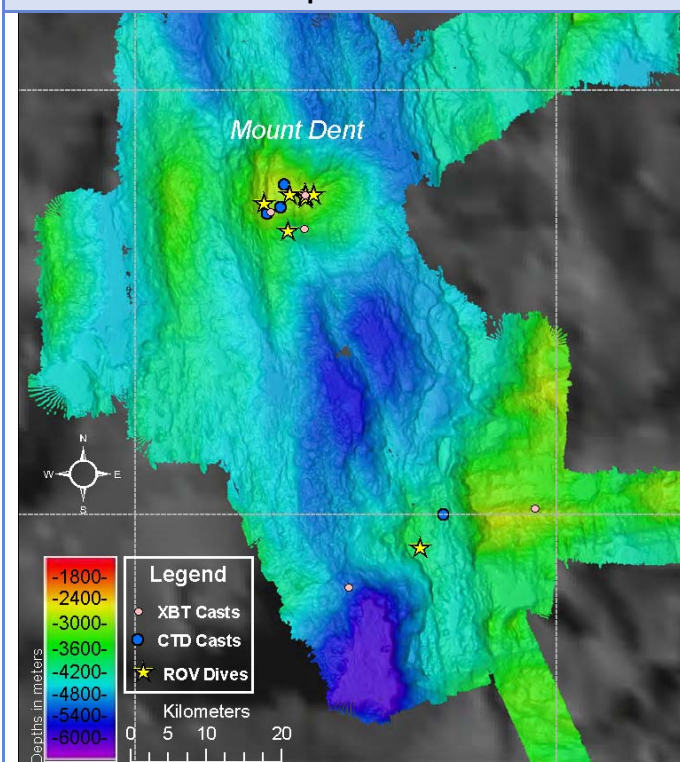
Equipment Malfunctions	None.
Special Notes	Forgot bottle vs. carousel position is offset by USBL placement. Double-dip required, 2000-2200m.
Scientists Involved (name / location / affiliation / email)	cgerman@whoi.edu & cmcintyre@whoi.edu (WHOI), jhuber (MBL, Sarah.A.Bennett@jpl.nasa.gov (NASA-JPL)

Purpose of the CTD operation: C-org cycling and plume exploration above Van Damm site.

Description of the Data/Results:

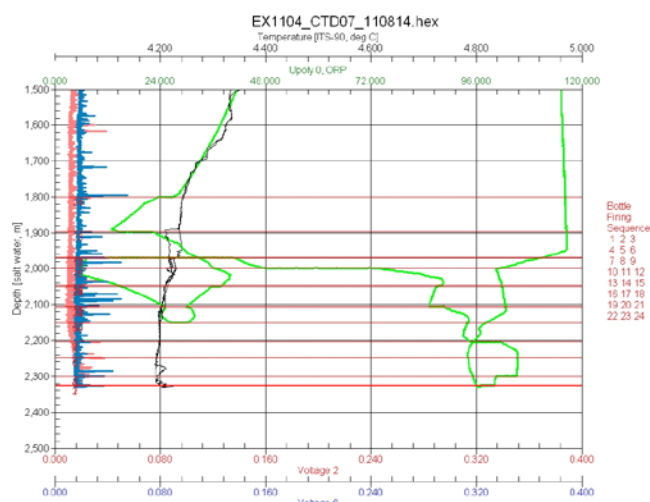
Stunning. No LSS signal but lots in ORP sensor.
CH₄ Analyses very high. 3 plumes.
Also, positive near bottom T° anomalies.

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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