


CTD Cast Name	Cruise		CTD Number		Date	
	EX1104		CTD04		8/8/11	
Expedition Coordinator/ Science Team Lead	Kelley Elliott/Chris German					
General Area Descriptor	Cayman Islands					
Site Name	Europa					
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° 21.27'N		18° 21.26'N			
	081° 50.57'W		081° 50.576'W			
Deployment Time & Location	UTC Time	23:57				
	Latitude	18	°	21.265		N
	Longitude	81	°	50.576		W
Time & Location At Depth	UTC Time	00:47	Target Depth/Range		20 mab	
	Latitude	18	°	21.264		N
	Longitude	81	°	49.576		W
Recovery Time & Location	UTC Time	04:53	Maximum Depth (m)		2360	
	Latitude	18	°	22.659		N
	Longitude	81	°	48.723		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, 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 type="checkbox"/> -80 Freezer <input checked="" type="checkbox"/> -20 Freezer <input checked="" type="checkbox"/> Refrigerator					
Data Archival	Tethys FTP site					

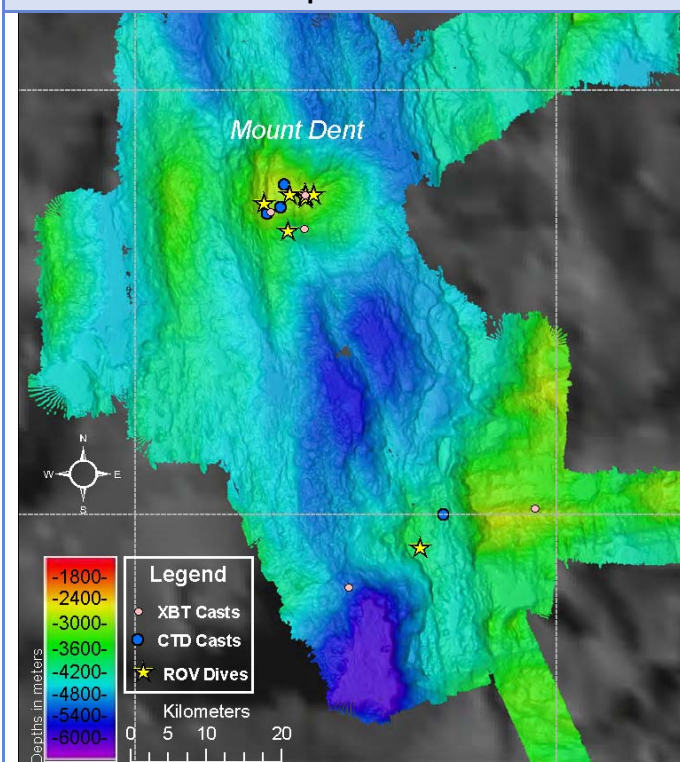
<b>Equipment Malfunctions</b>	Bottle 11 did not close, position 15 did not fire.
<b>Special Notes</b>	Replicate samples from bottle 4, bottle 5 → proves no leak on bottle 4.
<b>Scientists Involved</b> (name / location / affiliation / email)	cgerman@whoi.edu & cmcintyre@whoi.edu (WHOI) Sarah.A.Bennett@jpl.nasa.gov (NASA-JPL), J. Kinsey (WHOI), J. Huber (MBL)

**Purpose of the CTD operation:** Plume dispersion & C-ORG cycle study, Von Dam plume.

### Description of the Data/Results:

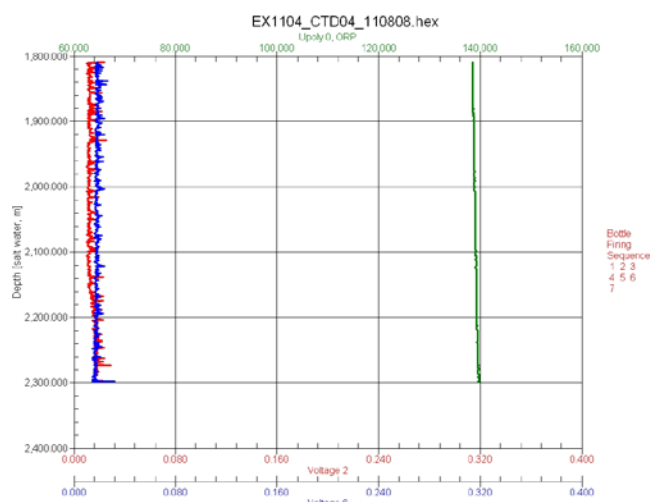
No signals in LSS or ORP but significant CH<sub>4</sub> anomalies throughout cast.

**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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