WBI Felo Ocean Acidification Research Cruise February 15-24 2012 WBIF departure 1105 1321 Sonde recording 1340 Aft pH running J check in an hour 1344 Aft CO2 started 1357 Surface Sample WB02-001 Leb GPS down Temp: 18.16 S.1 34.16 1500 Surfue simple WB02-002 Temp 18.50 5135.00 Selling 21 1508 Aft (07" - no data - Changed Settings; Check again in how restarted PH & COn -> Exposited Late files have Some data, but blanks stend 16 15 Sufface Sample WB02-003 Temp 18,91 Sal 35.27 55

WBIE Febre				5		1-42
			Thursd	lyr, February 16th, 201	2	
1717	Surface Simple WB02-004		00 01	surface sample	58 NBOZ-009	
	Temp 19.41 Sel 35.47	πŏπ.		Tenp 20.30	Sal 36.10	2 1 1080). 7
	The second second second second	135.6	01.00	surface sample	JB 418 32-010	
181	Sofface Sample WBOZ-005			Temp 20.40		803 NY
	Temp 19.16 S.1 35.7	1241		B	a Parameter	
			0110	Heard a disking	noise . Autosa	ngle
1822	PHI CO2 Att Systems don't display any data whe	Stru	1	collecting duta (0
	don't display andats whe	en				2
	selecting Real Fime data	1221	0201	surface somple	58 LABOR-011	
	0		1	Temp to 44	Sal 3606	-
	- Some data for CO2 then a	bunde				
	of Hand Stake On Coloms 1	ous	0301		TO NBOL-OLZ	
	W/O CO2 data		1	Temp 20 30	sat 76.06	-
	~ restart & leave for the n	what 20			C N L Scherner	_
	See it its regele	0	0400	surface singula	JB 4802-013	63-F (1)-25
			1	Temp 20.37	sal 35.99	APR 1
1924	Surface Sample W1302-006			and with a second	2	01
	TEAMS 19.71 Sel 35.93	5	0514	Surface Sample	WB02-014	Edip
			1	Surface Sample Temp 20,58	Sel 35,96	
2053	Surfice Simple WB07-007				M AZER DU DU DU	Policies
	Temp 2006 S.136.06		615	Surface Sample	WB02-015	
	earlier of the lates of the set		2-	Temp 20.50	Sel 35.74	NUT FOR
2200	Surface Sample WB02-008			- Jac - Jac	with the second	11
	Temp 20.32 Sol 36.08		N-			US TO DO
56			1-	_		57
9			1			

K II Febre

14) 141

	the training of the second second second second second	11 24	Surface Simple WB02-19	11.09.2
0801	Sofa sample WB02-16		Surface Simple WB02-19 Temp 20.07 Sil 35.06	
	Temp 20.68 Sel 35.85			-
	and the first of the second state of the second	1243	Surface Sample WB02-20	1.23
808	· CO, AFT System still not		Surface Sample WB02-20 Temp 20.20 Sa (35.57	1
	· CO2 AFT System still not displaying real Time data			
	> Exported Leta; it has	1419	Surface Sample WB02-21 1	0+
	Values & Handshake again		Surface Sample WB02-21 1 Temp 21.07 S.135.69 Si	, nei
	Check in a few days; looks like			
	leal time doesn't work, but machine	1512	Sulface Sample WB02-22	10
	functioning		TEMP 21,16 Sc1 36.01	
	· pH Aft (didn't stop & download last noted - tooles like hundishake spes in cycles,		Station PCBOS CTD in 1729 (However) / 18K CTD UP 1843	2
	- no real time output but michine		Bottle Alex	Der
	functioning		WB02-23, 12 TOP	2
	- Chuck again in a few days.			200
12			25 Bot	400
902	Surface Sample WB02-17		26 5 CHAR	90
	Surface Semple WB02-17 Timp 20.0056 Sil 35.92		1 Childre PHAR AMAR	111
			NO CRI JUST DU Stack @ 90m alban	H
1034	Surka Sungle WB02-018		Will Lightning and	
	Surface Simple WB02-018 Tem 7 20.14 Srl 35.72		240 dop 3 mil 25 1 Bot 26 5 Com Mot ist durack Q40m Mot ist 22:5 htn 28 Westher L 2:5 htn 28 Westher L 2:5 htn 28 Westher L 2:5 htn 28 Westher L 2:5 htn 28	205
		1	ACT O	-
58				59

WBIT Feb 12	8			UBIL Febr
2046 replaced Sonde & Logger 6	offerics	ાલ્વા	PCB02 surface Sample WB02-31 Bottle 10 2m	
Friday, Februage 17th, 2012 0210 Started Sonde logging (fo		1755	Sortace Sample Not Spiked Wi302-32 Sal isnore Sumple)
0213 Surface Sample WB02-2 12 Temp 21. Meds Cal 35.8		1813	Sulface Sample WB02-33 Temp 19.64 5.135.65	
0807 Sorfie Smple WB02-28 Temp 19.68 Sel 35.2		1820	CO2 Real time still not displaying Exporting data for both Both have data; CO2 is	8
How Mow through nogle clossed it's not but putting much -> flow through Shutcleur 828 flow through times			Somewhat rolly - large Spikes PO35: bly from flowthrough Soing Cown tooorganate whe	
837 Water flow seems balance & w.	13 mstroment	1/11	Susface Sample WB02-34	
1114 PCB03_ Surface Sample WB02-29 Bottle 9			Temp 18.83 Sc1 35.64	
1307 Suffice Sample WB02-30 Tem P 2053 Sal 35.74		}		CI

			1.0221	Mon	duy, February 20th 2012
	PCBOI Station				
2134	PCBOI Station WB02-35 18	Any	Depth	839	Turning on flow through System
	WB02-36 5	Miz	10	845	Aft sicker annoine le conde
	WB02-37 94	TOP TOP	2724		Aft system running & Sonde lossing
Satur	dy February 18th; 2012	12	1.81	853	Surface Sample WB02-39
				1	Temp 16.15 S.1 34.82
749	Surface Sample WB02-38 Temp 17.97 Sil 35.3	9	SUN .	V	Surface Sample WB02-39 Temp 16.15 S.1 34.82 Leak in lab; crew patching it; experiments fine
\$07	Shutcown Sonde & log Shutdown Aft Systems Journbid data	sel			Sulface sample WB02-40 Temp 18.97 5.1 35.81
	Loundred date Systems	C			lemp 18.71 2.(35.81
			100	1347	Solface Sample WB02-41
	Staying in Panama City to Walking due to wanthen	1 the			Sulface Sample WB02-41 Temp A 68 Sal 35.89
			served at the	1455	Sulface Sample WB02-42
	and the second	142	10.22		Sulface Sample WI302-42 Temp 19.71 Sal 35.76
				1604	Surface Sample WB02-43 6 dep Temp 20,49 5.1 35.98
	A LO I LAKE AND THE ST				
	ALC: NO DE CALS			1800	Surfra Sumple WB02-44
62					Sulfra Sumple WB02-44 Temp 21.03 Sul 36.16 63

- ²

WBJF Feb12				13			Febr
2139	PCB06 Suchae Sample NB02-4	15	1647		WBOZ-53	4.2	
	12 Bottle 11 Depth Taka 10m			Temp 21.30	54136	25	
22.54	Surface Sample WB02-46 Temp 21.05 Sel 36.01	100		Station DSH Cast 1 UP:			
Tuesde 0630	Temp 21.05 \$1 36.01 3 Februar 21 5 2012 PCB11 3th tion 2 Casts	1778		Castz up: Z	050 Cast Bot	Artes	Repty
Cen	WB02-47 2 11 Top		-	WB02-54 55		Top	ZM
	48 1 5 Mil 49 1 2 Bot	350m		56		Bot. CTOP	2117
	* No Chronophyll Max Cast 1 7.39um		(na	Chlore 57 Mit 58 59			
1.80	Cast 2 835	2151		nesday: February Z			
1035	Surface Sample UB02-50 Temp 21.06 Sal 36.13			Surface sample Temp 21.34	sal 36-13		1000
1235	suitace sample WB02-51			pillater Horizon h	Cast Bottle	Avec	Donth
	Temp 21.32 S. 1 36.14	223	861	WB02-586d	PI 3	Bot Mil	1463
1345	Surface Sample WB02-52 Temp 239 Sel 36.13		911	60 no chlorop	V II hyll Max	Top	211
64				100 (1.1		2	65.

WBII Feb 12			and S. R. State				
1100	Sufface Sumple WB07-61 Temp 21.84 Sc. 1 36.26			DSHO8 Station	- Z - 6		
108	Temp 21.84 Sal 36.26				Boitte	Aces	derth
	10/1/			WB02-68		TOP	
1739	Surface Simple WB02-62			69		Miz	
1001	Surface Simple WiBoz-62 Temp U.84 Sen 36.27			- 70 Edup	1	Bot	1000
				71		LTOP	10
1349	Sufface Sample WB02-63			72	10	CHAX	25
	Suffice Sample WB02-63 Temp21.79 5.1 36.29			73	9	CBor	50
	Surface Sample WB02-64 Temp 21.45 51 36.23		Thurs	day, February 23rd,	2012	1	1943
				DSH01 Station		Sir .	-
1710	Surface Sample WB02-65 Temp 21.33 S.1 36.12				Bottle	Avec	depth
11.0	Temp 21.33 S.1 36.12		0600	WB02-74	11	Top	zm
				75	2	Miz	30m
2006	UBOZ-66 Z II TOP	Lepts Zin		75 76	1	Bot	75
-	WISOC-60 C 11 101		0848	Flauthauth Bro	here as		
2052	Suffre Sample WB02-67 Temp 21.02 Sc1 35.91	UTT'		Flow through Sys turned on Sonde	LAF	+ sys	lens
	10/14 61.00 30 32.11		926	Sonce froze; 1	e hooled		
2204	flowthrough system turned off	2		Contraction and the			
	flowthrough system turned off - Waves too mitense, systems son m 211	dening	932	Surface Sample Temp 20.46	WBOZ- Sil 30	71	
66	= Shotting cown aft & sonde Hushing Aft system with D.T. 4 8min	Jater		en Route to			FL 67

WBit Gebil 1042 Sulface Sample WB02-78 Temp 19.72 Sal 35.40 1151 Suchace Sample WB02-79 Temp 18.79 Sal 35.03 1304 Sulfree Sample WB02-80 Tem 1218.49 Sal 34.83 1421 Sulface Sample WBOZ-81 Temp 18.23 Sal 34.45 1508 Surface Simple WB02-82 Temp 17.89 Sel. 33.39 1519 Shutting down sonde & Aft Systems Hushing Afts w/DIF with Aft pH had some Shell's frag / Gund that Came out affer Mismy 68