PG LOF

VESSEL:	CRUISE:	PROJECT & LEG:			STATION DESIGNATION:	NATION:		
USCGC Healy	HY-01-03	ALTEX AUV Test Cruise	Cruise					
	2	284		BRUSSBURE AT STATE AT STATE	S S (ms) QUC	BOTTOM	, >	
CAST# LATITUDE	LONGITUDE DEG MIN	DATE JD=	TIME (GMT) DRY BULB	Ha (t	SPD.		\dashv	STA. NAME/ID
76	3059	0	7V 20	4	95 S 1- 2	€ 78 0	0	
SBE 911+ SN 638	TIMES	JD/TIME	DATA	REMARKS OLITE	S fragen	30	¥	2017
PRESS SN 83009	DATA ON . 4	4:46 2m	File Name	' S		1	n.	n f
PRI TEMP SN 2796	START DOWN	4,47 Am	Hlyolo3cTDOI. dat		2	faint on first with out sat	t winty	too to
SEC TEMP SN 2824	АТ БЕРТН	4:58 am		# latalong is	×	start of bottom of	of 1201	1
PRI COND SN 2545	AT SURFACE			Cleaned air bleed valve				
SEC COND SN 2568	Oxygen S/N 130583	Trans. S/N	CST-390DR	Fluor. S/N 88233				
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES	OR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	UMBER
	r) PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL	25	λ.Χ.O
1 197	2.119	2.104	24 900	20 913	34.919		-	A
2 44	2.505	73.867	34.15	24, 959			7	h
3 48	0,870	2.830	4.15	34.959				2.5
4 @	3,043	3,049	51612	A. 922			~	43
5	3.425	3,100	74 42.00	29.933				
6 40	. 6 A	1.61	かのか	34 666			rea	Ked
7 49	1.63	. 643	24.664	34.669			1	44
8 20	,655	.438	33.962	23.197			ſ.	200
9 20	418	028	23992	23,990				
10	- 45	1.455	33,459	33,490			Did	not fire
	14.	a. 6.6	-22, (179)	33,486			0	49
12	٠							
13	!							
15								
16							-	
17								
18		-						
19								
20								
21							. 20	
22								
23								
24								
				200000000000000000000000000000000000000				

PG 2 OF

VESSEL:		CRUISE:	PROJECT & LEG			STATION DESIGNATION:	JON:	
A STATE OF THE STA		20-10-11	ALTEX AUVITES Cruise	Cruise	, E			
CONSC CAST #	LATITUDE	LONGI	DATE JD= 284	TIME (GMT) DRY BULB	M B B B B B B B B B B B B B B B B B B B	WEATHER CLOUD (at MP MP MP MP MP MP MP MP MP MP MP MP MP	BOTTOM STALM	STA. NAMEAD
DEG	_[g	DAY MO YR	HR MIN (°C)		(m/s)	+	
00281	25 · 86 R	3055.91	0 E 1 0 6 T 0 1	0751-510	-5. 4/00Y C	2002	1050	
SBE 911+ SN 6	638	TIMES	JD/TIME	DATA	REMARKS GOZEN	SPINSOF	proxaht back	
PRESS SN 8	83009	DATA ON .	7.35 am	File Name	4	5	C1 & 28	
PRI TEMP SN 2	2796	START DOWN	7:37 am	H40103C1D02.	Started rea		Sind to the	
SEC TEMP SN 28	2824	АТ DEPTH	51	dat	Cast		100 6	
PRI COND SN 28	2545	AT SURFACE			Cleaned air bleed valve	, Ae		
NS QNC	2568	Oxygen S/N 130583	Trans. S/N	CST-390DR	Fluor. S/N 88233			
POS. TRIP DEPTH			CTD CONVERTED MONITOR VALUES	OR VALUES	1	SAMPLE BOTTLE DATA S	SAMPLE BOTTLE NUMBER	MBER
	PRES. (dbar)	PRI. TEMP. (°C)	C) SEC. TEMP (°C)	PRI SAL	SEC.	VEINI IA 2	2 3 3 1 1 1 1 1 1 1 1	- 8
1 291				34.888	24.892		+	- 1
2 291		912	0181	- 24.88 T	24.894			
3	200.605	35 A.187	2.15	34-901	24.908		a	27
4	300.049	49 2.163	2.151	34.903	34.908		1	
5 150	151.079	2.86	- 1	24.9 46	34.452		9	36
6 150	151.046	2.86	2.866	34.946	34,953			-
2 مام			3,690	34.925	24.931		10	30
		0		34.927	34.935			
1	49.505	0 1860	0 (853	84.695	34.695		//	30
1	29.60			24 58 G			,	
7	20,000			34.297	34.323		12	つか
12 20	20.157		\hat{\sigma}		24.351			
13	1563	,	•	2	33.502	325182175	7 51 C	15
14	395 · ·	+ - 58b	b = :584	33.497	33.502		/	
15								
16								
17							7	
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23							13	
24							,	-

		T					*		2-0	==2						John	Madd																		
2 oF		STA. NAME/ID		+	60m/m/a		pulse			SAMPLE BOTTLE NUMBER	-					A Company of the Comp																			
PG 🗸	NO	BOTTOM BEPTH	(E)	4his Cast	then then		taken from surface	cast.		MPLE BOTT	6	12. M	-	5		and the second s		9		+1		18		6		20		8		23		33		24	-
	STATION DESIGNATION:	HYPE MEATHER		-1	12		cen from	after (1	(a) 5	1270	_			and the second s											-								-
	STATION	1	(m/s)		C 1-		!!	Cast a		SAMPLE BOTTLE DATA	VALINITY OF	16																							
		VISIBILITY	(deg) 0 0	Will Skip	1		12thhat & longitude			SAN		34	7	7	٥	9	7	7	90	ts	4	59	8	155	153	616	+	و	780	402	399	3	2	9	210
	/		(mb) O 1006	REMARKS V	20 m minute		Patritude	Cleaned air bleed valve	/N <u>88233</u>		SEC. SAI	4.907	34.90	34.917	34.916	34.946	34.94	34.967	34.968	34.9	4+6, 4E	34.965	34.968	34,955	340	34,0	34.917	4	34.7	24.4	4	22.253		33, 210	33:2
		WE		#	1	لـــــــــــــــــــــــــــــــــــــ			Fluor. S/N			-		_		The state of the s					2			-	26				7	C)		12			
		DRY BULB	(°C) - 3 . 9		hy DIOSCIDOS.	,			œi,		PRISAI	24.900	24.901	34,909	34.909	34.940	1-941	30.960	34.96×	34.968	34.9 (08	34.959	24.960	34.949	341448	34,913	34-913	34.763	34.757	34.402	7.399	2 2 352	33 347	33, 205	3-31-205
	nise	F	HR —	DATA	File Name 🕨				CST-390DR	r values		7	36	34	34	(4)	24),	(1)	11)		(4												Ì	
	PROJECT & LEG: ALTEX AUV Test Cruise	482						-	Trans. S/N	CTD CONVERTED MONITOR VALUES	TEMP (°C)		326	38	42	242	358	909			2.033		2.309	2.644	2.4.28	2.554	2.243	1.924	\sim	-1:303	-1.30	589	-1598	906,-	501
	PROJ ALTE)	9	I O C		10:47 am	6	9	55	<u> </u>	D CONVERT	SEC. TEMP	- · 322	-	6	1	+) 1		97	8	رد	8	B	0	6	87		-	7	1	. 1	1	6,1	
0	797		3 8 E	JD/TIME	101	Q	=	<u>- </u>	130583	5	PRI. TEMP. (°C)	374	333	226	238	239	25%	80%	1000	2,045	2,032	1361	2,368	8	7	a,553	205	A. 1.135	7601	310	1. 338	584	4 45	- , 986	C0 b -
	33 54 (12.6	LONGI	0 4 C		<u>Z</u>	DOWN	Ŧ	FACE	- 1		PRI, TE	4	1.3	6		-	1	يو.) 1	وي	B	4	2,5	3,	29.62	8	ć	de		-	3	1	1		
	CRUISE HY-01-03	66	z	TIMES	DATAON	START DOWN	AT DEPTH	AT SURFACE	Sóxo S		dbar)	410'	100 3. 392	750.901)	0.476	549,8/2	048	498.236	498.385	30 (399.304	283	786	995	1941	149,506	144.175	98,593	7.165	48.739	48.947	7-665	.933	400	1.445
	(South	33,12" N	2 . 94		60						PRES. (dbar)	1000	(00)	35	750	5	599	490.	498	391,301	399	300	300.	199	100	149	1 4.0	98	99	4	48	7	4	PC 11	-
x		18 Swith	8 1 3	. SN 638	83009 N	SN 2796		3 SN 2545	D SN 2568	HI A BO	,	286	686	741	141	543	543	A02	492	395	395	297	297	tb1	194	148	(48	96	96	48	787	1	80		-
	VESSEL: USCGC Healy	CONSC CAST #	003	SBE 911+ SN	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN		S C		©) 0	(3)	4	S	9	©	80	6	유(Ξ	12	@	4	(S)	16	(1)	_	(F)	4	(S)	22	(3)	24

PG 4 OF

	STA. NAME/ID					الا	because of	CANT	I	VUMBER	OXY.																				
	N	-		N	L.	-	7 860			SAMPLE BOTTLE NUMBER	NUTR.	35		96	40		28	,	39	8		31	23	8	33		34	35	, ,	36	
; NOIL	BOTTOM DEPTH		_	03 KZ	60 MIMIN	2	ら 一 に の に に に に に に に に に に に に に			SAMPLE	SAL.																			4	
DESIGNA	ЭЧҮТ МЕ А ТНЕВ			2	12/2/2		31.10	+2xer	-	DATA																				4549	
STATION DESIGNATION:	CLOUD (ami) SPD.	(m/s)	67	アファ	Down	10	30	10 oxygentaken	3	SAMPLE BOTTLE DATA	SALINITY																			1834	
	WIND DIRN.	(deg)	07/	2011	3	CAT	LOW			SAMPL					<u> </u>	<u> </u>		_			L			1					_	33	_
	SEA STATE VISIBILITY	•			In out	-		Cleaned air bleed valve	88233		AL.	4		970	906.	1	34.916		200	00		166	176 77	901	006	1	24.0	707		75	
	PRESSURE		7 100%	REMARKS	20m min	2	707	Cleaned	- 1		SEC. SAL	34.914		34	24		34	ļ	34.266	340		34.99	24		340		34.00	74,4		33.17	850 0000000
	DEW POINT		2	#		dat		4	Fluor. S/N				-		+									-					_	,	4
	DRY BULB	OL	2			-					åAL.	to		903	106.		606,		916	1.977		4.985	5257	10	34-891	•	34.830	24.392		3,170	
		Ц			e e	hy 0103ctd 04			CST-390DR	ES	PRI. SAL	34.907		34.	24		the		34.	35		34	20	12	3.4		34.	24	2	33/	
 Oruise	TIME (GMT)	Ŧ,	1355	DATA	File Name	hu o	7		CST-	NVERTED MONITOR VALUES	Section American			+	+	$\frac{1}{1}$				-				-	-			-	\perp		-
PROJECT & LEG: ALTEX AUV Test Cruise	284	K.	0						Trans. S/N	ED MONIT	SEC. TEMP (°C)	3		000	362	,	225		29	7.086		2.571		201-	2.578		194.	.347		886-0	
PROJE ALTEX		_	000		4	Ø.	-	2	2	CONVERT	SEC. 1	74) •	•	į	-		W	7		7	,	7	7		7	÷0.	1	ī	
	DATE	\perp	E	JD/TIME	1:0,	10:1	1:55	2,5		CTD CO	 റ				1	-			,	~		5	7		Ó		7	2	-	%	
	UDE	NIM	٠ الم	당	1	1	ı		130583		PRI. TEMP. (°C)	-,742		180.	120	1	234		605	7.0%		2.56	0	7.801	2-540		18h'7	25.01		1.0-	
úi 8	LONGITUDE		0 8		z	DOWN	₹ /	FACE	Oxygen S/N		P.	1		١	1		-											'			
CRUISE: HY-01-03		DEG	χ Z	TIMES	DATA ON	START DOWN	AT DEPTH	AT SURFACE	Oxy		ar)	519	, i	7,755	(120,000))	188		5	6		440.20).	(6)	813)	239	-	3	
)E	ΙT	7								PRES. (dbar)	1997.519	-	149	0		152		502,119	402		302	200	702-16)	151		100.77	517	NI.	7.3	
	LATITUDE	Z Z	36	638	83009	2796	2824	2545	2568	유논						1								1					\perp	++	
: Healy	-		181					1		INTENDED TRIP DEPTH																					
VESSEL: USCGC Healy	CONSC CAST #		00	SBE 911+ SN	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	വ	Pos.		-1	2	60	4	n (7 0	80	O	¥ :	X	13	X	15	@ <u>1</u> -	×	5	Ŕ.	27/8	23	(g

OF		Azta STA. NAME/ID		the bottom	4 50	S	NUMBER	OXY.	17	23	77	H72		92	35	46	745	20	ī	
PĠ 🗸		Ŭ	0	七元	0	ACCREBING the wife	boat SAMPLE BOTTLE NUMBER	NUTR.	38	39	40	-	-	7	43	44	45	4	ナナ	7
	ATION:	Used Sea beard BOTTOM DEPTH	3000	17 401Ag			1 - 1	SAL.												
1	STATION DESIGNATION:	WIND WIND DIRN. SPD. CLOUD (ami)	202.8	CTD Cast	2800 meters.	its, prossure was		SALINITY 34938845												
		DEW POINT SEA STATE SEA STATE	N	REMARKS Conditions	ठ	Cleaned air bleed valve $QULL(V)$	Fluor. S/N 88233 (20)	SEC. SAL.	34.916	24.908	34,904			34,968	34.963	39.455	34.943	34.862	34.633	
		(GMT) DRY BULB	16-3.3-	DATA File Name	hy0103CTD05,DAT			PRI SAL	34,910	34.901	34.698	19670	5	24.960	34:466	34.948	34,935	34.862	34.616	i dir.
	PROJECT & LEG: ALTEX AUV Test Cruise	DATE JD= 284 TIME	00-1-0		200	w d a	CTD CONVERTED MONITOR VALUES	SEC. TEMP (°C)	-772	60)2.7	481	600		1987	2,370	2,589	804.0	2,537	1,394	
\	:: 33	LONGITUDE	05.36 E	JOTTIME		тн 5, <u> (</u> е FACE	N 130583	РВІ. ТЕМР. (°С)	042	6	100	1545		1.987	2,370	2.543	2.709	2.537	1,394	
	CRUISE: HY-01-03	UDE	7 P F .	TIMES		AT DEPTH AT SURFACE	1	PRES. (dbar)	1998.624	MAG. my	750.00p	400 0 TO	11110	859 · eu	309.853	203,321	151,456	44.997	49.948	X
	VESSEL: USCGC Healy	-	4	SBE 911+ SN 638		SEC TEMP SN 2824 PRI COND SN 2545	그 일 항	7800	3000	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		+	000	2 4 8	38	7 200 800	200	100	21 \$	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

VESSEL:		CRUISE:	PROJECT & LEG			HOLTANOISEG NOITATA		5
4			ALTEX AUV Test Cruise	uise		STATION DESIGN	A I ON:	
र्भव	N 9.70-16	5tert 30-07.0E			3TA1			
- }	LATITUDE	LONGITUDE	JD= 284	TIME (GMT) DRY BULB	NESIBILE SEA STANDER SEA STAND	WIND WIND SLOUD	BOTTOM	STA NAME
DEG	Z	DEG MIN	MO YR	(Ç)_	, (qw)	(s/m)	(E)	
	2		10 0 1	•				
Z		7		DATA	REMARKS			
		j	O M	File Name	(3	D meters on	the dew	deuncas t
		START DOWN	D WA	HY 0103C+406.42T	7	MONITH FRITED.		
SEC TEMP SN 2824		АТ DEРТН	-		[We rebooked and	Staveo	P
PRI COND SN 2545		AT SURFACE			Cleaned air bleed valv] 5	1	10 th 2 may
SEC COND SN 2568		Oxygen S/N 130583	Trans. S/N	CST-390DR	Fluor, S/N 88233		Cast	1
POS. TRIP DEPTH	,	CTD	CTD CONVERTED MONITOR VALUES	VALUES		SAMPLE BOTTLE DATA	SAMPLE BOT	SAMPLE BOTTLE NUMBER
	•							
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	Y	IAO	ari in
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23								
24								

* note this is 2nd half of cast 6

STA. NAME/ID \$ BOTTLE CUACKED SAMPLE BOTTLE DATA | SAMPLE BOTTLE NUMBER 3000m and 9 * We had drifted so much that we wron WC SKINDED 49 50 320 BOTTOM DEPTH is site SAL. STATION DESIGNATION: 113% at RAHTAAW 180 Mis TYPE 3 CLOUD (amt) SALINITY WIND SPD. reads (m/s) Sere WIND DIRN. *Oxugen Sensor Cleaned air bleed valve close to site VISIBILITY 34.935 34.921 SEA STATE 88233 SEC. SAL. REMARKS Fluor. S/N **DEW POINT** hydio3ctdobb.dat DRY BULB 34.939 116.14 PRI. SAL. CTD CONVERTED MONITOR VALUES TIME (GMT) 7 7 7 Z File Name DATA PROJECT & LEG: ALTEX AUV Test Cruise H -Ϋ́В SEC. TEMP (°C) 9:54 oreurlier 9:54 pm 1767 96E110CF DATE JD= PRI. TEMP. (°C) F4F - 1 130583 177 LONGITUDE Oxygen S/N START DOWN AT SURFACE N 0 3 0 AT DEPTH DATA ON CRUISE: HY-01-03 TIMES 29998.158 PRES. (dbar) 1946.281 5 LATITUDE 55 83009 2796 2824 2545 2568 638 POS. INTENDED TRIP DEPTH 2000 9300 SEC COND SN SEC TEMP SN PRI COND SN PRI TEMP SN USCGC Healy SBE 911+ SN PRESS SN 0 **6** B CONSC CAST # 19 23 5 12 5 7 16 48 8 2 22 24 Ξ 5 7 Q S 9 7 œ 6 ო 4

70F.

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					22							CTA	STATION DESIGNATION:	MOLLON		
VESSEL: USCGC Healy	aly	i	CRUISE: HY-01-03			PROJECT & LEG: ALTEX AUV Test Cruise	r: Cruise					5	I TOTA CECUL			
CONSC		U C	_	adi Higino	DATE ID	202	TIME (GMT)	DRYBULB	DEW POINT	SHESSURE	SEA STATE YTIJIBISIV ≥ □	WIND WIND DIRN. SPD.	O & CLOUD (amt) TYPE WEATHER	BOTTOM		STA. NAME/ID
	DEG L	MIN	DEG	MIN	DAY	잏	+	╬	(0)	15				Ш	Н	
0 0	R	N 7-1	0	8 · 8	E / /	OCT 01	222	3-11.1	•	1001	1/1	イン	(Vo	326	6	
SBE 911+ SN			TIMES	ġ,	JD/TIME		DATA		RE	REMARKS	The	Drogram	M Dev	Forme	dr b	
PRESS SN	•		DATA ON		10:33	3	File Name			-	Paal	PYON	50	We 1	12a h	179
PRI TEMP SN			START DOWN				h7010	170103crp 06c.0A	1	Shirtda	CS BLUYD	Tarto	OVCV.	USURG	1 F both	£10
SEC TEMP SN			AT DEPTH						_[Fred -	wedi	d AMD	other	one	@ 200	2000 metes
PRI COND SN	SN 2545		AT SURFACE		23:45					Cleaned ai	Cleaned air bleed valve		一一十	4	and	it did no
SEC COND SN 25	SN 2568	82	Oxygen S/N	S/N 130583		Trans. S/N	N CST-390DR	N N	Fluor. S/N	3/N <u>88233</u>		Start @	23 and	2	# 5 instra	020
POS. IN	INTENDED TRIP DEPTH				CTD CONV	ONVERTED MONI	ERTED MONITOR VALUES				,	SAMPLEB	SAMPLE BOLLLE DATA		SAMPLE BOLLICE NUMBER	
		(Jedp) SBBG	-	PRI. TEMP. (°C)		SEC. TEMP (°C)		PRI. SAL.		SEC. SAL	ز.	SAL	SALINITY	SAL.	NUTR.	OXY.
-		4	90 20 Z	(400 meters	7	here was a	moment	H When ,	oressure = 0	0=3	+ 72	+emp.«	125 W.	went	all da	1 the
2		*	1		F						-					-
-	2000	2043090		2770		776	• }	34.415		-		/\	\mathbb{N}	<u>X</u>	V _i	Ň.
4	1000	1004 .0	-86	-, 306		-130k	-			34.9	80				7/	20 !
ιΩ	750	1	00	0.076	7	0.362		34.41		1	11				1/2	0 :
9	500		8	00		و مر		1 5.45	70	5	16				21-	_^
7	400	400.4	22	388	+	3		27.70		2/2	_ 1 ~				U L	1
80	300	300.313	•	(b ,		-		54.45		10/2	7				77	+1
6	300	200,709	8			2,386		34.90 +			کار				2/2) !
010	150	50.033	93		-	1-18	9	0 7	_ (٦٦.	1				3/2	no
=	S	100 H36	als.	1.026		1.0(3	+	- 1	1	21 540	10				o p	7.7
-+	50	50,2	232	1,290			+	34,541		20.989	O U	23 99	16177	V	15	なな
╁	Suitac	7,400	6	300 -11	-	1.506		200.					2000)
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23	ton bit				+				+						_	
24	d la	not		62	-		-		-							

STATION DESIGNATION: # 8	WIND (ami) " CLOUD (ami) " YPPE " WEATHER	2.8	Motor Tritues	wrong for prev			STATE TOWARD E BOTTI E NI IMBER	SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	SALINITY SAL.	1,9336878 7 61	23	20		64	7	7	99	(6)	89	69		26	7		
	* SEA STATE		REMARKS STATION	Lad		Cleaned air bleed valve	Fluor. S/N <u>88233</u>	SAM	AL.	34.935 34	34.920	C. 0 3 0	70101	34.911	620716	6	37675	34.953	36.938	34.596		34.77.7	34:407	32.993	
4	(GMT) DRY BULB	0214-11.1	DATA	1 2013 CTD 07, DAT			DR	VALUES	PRI. SAL.	34.929	34.914		006.7%	400 h	01:01:0	54.745	34.558	34.947	34.932	270 70	77.668	34.776	34.400	37.989	
PROJECT & LEG:	JD= 200 VR	120010			ami	١.	5 73 Trans. S/N	CTD CONVERTED MONITOR VALUES	SEC. TEMP (°C)	-0.768	20774	0	782.0-	0.000	4 1	1.09.1	1.996	2.210	2.402	C	4.401	/*620	1.884	1 643	1 200
ùi S	LONGITUDE	9 44 · 76 E	. JD	DATA ON CAPATION CONTRACT		ا ج	N 130563 /3		PRI. TEMP. (°C)	-0.76r	74 0-	4	- 0.281	- 0.330		1.601	1.996	1/2.2	2.404		20.2.7	18612	1.887	1 1	
CRUISE	LATITUDE	2 3 6							PRES (dhar)	2995.3	C.11 CAD1		1002.947	750 284	1	798.900	400,350	300.216	10000		150.751	99.864	50.054		12/21
VESSEL:		8	SBE 911+ SN 638		PHILEMP SN 2/30	-		III III		3000	+	6 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 1000	° '	1	005	5 = 5		1-	ق ق 27 X	150	81 et) S		23 SUNTARE 24 X

PG 10 OF_

STATION DESIGNATION: STATION 9	, WEATHER CLOUD (amt)	3996	Arriberts - Itwo		1		TTLE DATA SAMPLE BOTTLE NUMBER	SAL.	/\$	74	75	ý	•	77	78	778			18	82	83	094672 884	
STATI	(deg) PPRESSURE (deg)	1 20	REMARKS / / / / / / / / / / / / / / / / / / /	0 000000		ane	S/N 88233 SAMPLE BOTTLE DATA	SEC. SAL. SALINITY	34.734	34.920	34.907		34.901	34.944	34.945	21,0110	54:77	34-928	34.709	34.874	34.436	33.086 33.09	
es	TIME (GMT) DRY BULB DEW POINT HR MIN (°C) (°C)	3 1 - 1 - 1		Ny DIOS CTD OS. DAT			CST-390DR VALUES	PRI. SAL.	34.923	34.914	CO5.70		34.400	34.938	34.939		34.746	34.925	34,907	693-72	34. 434	33.087	
PROJECT & LEG:	DATE JD= 265 T	12001		-1 am		5	OS 73 Trans. S/N CST-390 CTD CONVERTED MONITOR VALUES	SEC. TEMP (°C)	-0.768	-,777	176:0	104.0	0750	1.484	1.796		2,138	2.253	2.294	hoh-2	821	747-	
CRUISE:	LONGITUDE	933	Jar	DATA ON 4.2 START DOWN	АТ DEРТН	AT SURFACE	Oxygen S/N <u>198583</u> (30	PRI. TEMP. (°C)	-0.769	rrr.0-		0000	0,347	1.483	1,795		2,147	7 2.255	2.311	707	-0.823	7-1-	
83	LATITUDE	ر ا ا ا		83009 DA7			89	PRES. (dbar)	1983.3	1996.94			2500 10	504.63	402.70	•	301.57	201.42	671.051	98.727		1 0	
VESSEL:		 	SBE 911+ SN 63	PRESS SN 83	-	15	_ = 0		1 3000	2000	4	5 1000	7 750	8 005	1/1-	12	13 300	15 200	16	1/1-	11	22 22 22 22 22 22 22 22 22 22 22 22 22	1//

PG (OF __

		CRUISE: HY-01-03	PROJECT & LEG: ALTEX AUV Test Cruise	Oruise		STATION DESIGNATION:	TION:	
10		45.45	286	TMOV.	PRESSURE STATE YTISIBILITY	WIND	BOTTOM ST	STA. NAME/ID
1 S File Name CT 5 0 0 7 CT 5 0 7 C	1 1-		DAY MO YE	(0°) + 3°	/ \ (qm)	(s/m)	(m) 3548	
11 5 9 12 0 6 12 0 6 12 0 7 3 Trans. S/N CST-390DR RI. TEMP. (*C) 12 0 5 7 3 M Trans. S/N CST-390DR RI. TEMP. (*C) 12 7 7 4	TIMES DATA ON		59	DATA File Name	REMARKS			
12	START DOV	9	1	CT\$009				
N 1300-05 7 0 5 7 3 Mans. SNN CST-380DR Pluor. SNN 88233 CTD CONVERTED MONITOR VALUES SEC. TEMP (**C) SEC. TEMP (**C) 7 7 4 3 2 0 7 0 3 3 0 0 7 6 1 - 1 - 7 7 4 3 3 0 0 7 6 1 - 1 - 7 7 4 3 3 0 0 7 6 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	AT SURFAC		5 -		Cleaned air bleed va	Ve		
SEC. TEMP (°C) PRI, SAL. SEC. SAL. SALIN (°C) 70 33.076 33.08(Oxygen S	130983	3 o 5 73 A Trans. S/N CTD CONVERTED MONIT	BO		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	E NUMBER
Sec. Lentricy 77.070 33.076 33.081				100	S S S S S S S S S S S S S S S S S S S	SALINITY	SAL. NUTR.	OXY.
		PRI. TEMP. (°C)		3.07	3.07	M	0	
	-							
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	+							
	-							
	+							
	+							

PG /2 OF___

CANTIDGE CONTINUE	VESSEL:		CRUISE:	PRO	PROJECT & LEG:					STATION DESIGNATION:	NATION:		[/
LATTURE CONSTITUDE CANTELLO	USCGC Healy		Stert Find	Arie	ACK C			BTAT8		(tms) dU			
Miles		ATITUDE		9	583	-		SEA PRE		LVP.		+	AME/ID
Third	DEG 2	2	S. MIN	DA ✓	- -	WIN C	7	\Box	See 2	3.4	1 5 5	ŝ	
Second DATA ON OP S. File Name C. G. U.V. OR S.				١,	à		7 / 3/3	REMARKS					
2646 AT SJIPFACE			DATA ON		<u>ш</u> 1	•	010.00						
A SURFACE A SURFACE A STATE			AT DEPTH	0945	<u> </u>								
A			AT SURFACE	4560	`			Cleaned air ble	ed valve				
PRES (dbar) PRES				13051	Trans. S/N	CST-390DR	Ž		CANADI	E BOTTI E DAT	20	BOTTLENU	MBER
200 (99.934 PRI TEMP (C) SEC. TEMP (C) 3 F. P f 0 4 F. P f 0 4 F. P f 0 4 F. P f 0 5 F	lla H			CTD CONVER	ATED MONITOR	VALUES		59	Link of			-	
200 (96.934), 900), 901 34.870 34.8935511 1		PRES (dbar			, TEMP (°C)	PRI. SAL	:		\$2	SALINITY	SAL.	NUTR.	OXY.
	+	۱ از			103		0	6.00	3%	893556	0		
	+												
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15 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7	13						33						
16 16 17 18 19 <td< td=""><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	5												
17 18 19 20 21 22 23 24	19							(ii)					
18 19 20 21 22 23 24	17												
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22 23 24	20		4										
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24	23			ä									
	24								= -				

2 BEAR	BOTTOM STA NAME/ID (m) 7-100 Saldatal N Saliniha	SAMPLE BOTTLE NUMBER	L. NUTR. 0XY.	86 3A	45 T8	88 43	th 18
STATION DESIGNATION:	WIND WIND SAPE OLOUD (AMI) (M/S) (M	HEO UVO	SALINITY SAL			33, 10656469	
	PEWAPINT ("C) ("D) PRESSURE ("C) ("D) PRESSURE ("C) ("D) PRESSURE ("C) ("D) PRESSURE ("C) ("C) ("C) ("C) ("C) ("C) ("C) ("C)	Cleaned air bleed valve	SEC. SAL.	34,591	33.661	3 3.650	23.645
88	(GMT) DRY BULB (°C) 2 4 - 1 .	DB	PRI. SAL. 34.878	34.584	१९७७ १८	33.64U	33.p38
PROJECT & LEG: ALTEX AUV Test Cruise	MO WHO WE UP TO THE WOOD AND TH	38 pm CST-390	SEC. TEMP (°C)	,595	-1.760	1.783	1.795
ii:	LONGITUDE NIN NO 30 E D'TIM OWN 2.1	AT SURFACE 2138 1000	PRI. TEMP. (°C)	<u> </u>	-1.740	-1.785	1,792
CRUISE: HY-01-03	TITUDE MIN TO SEE	58	PRES. (dbar)	184'43	7877047	30.279	4,792
VESSEL:	((() () () () () () () () ()		1 200	5 100	8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	15 15 16 30 17	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

9,10,11,12 CTD012A.dat

9<u>4</u> 41 53 75 8 OXY. STA. NAME/ID SAMPLE BOTTLE DATA | SAMPLE BOTTLE NUMBER 7 800 me PC/S e 0 2 Ĭ 8 = 22 6 NUTR. 93 95 45 92 9 76 0 BOTTOM DEPTH 3160 501/85 @ SAL. প্র STATION DESIGNATION 6030 WEATHER **NPE** SALINITY CLOUD (amt) some weird 33.563 WIND SPD. (s/ш) Jecre 250 2000 WIND DIRN. (ded) Cleaned air bleed valve 34.820 34,909 34,937 34,553 VISIBILITY 34,712 34,903 34.936 34.905 34.15 88233 **SEA STATE** 34.911 34.554 SEC. SAL DEP SSUR 0/0/ (gm) REMARKS PRESSURE Fluor. S/N **DEW POINT** ပ္ပ 210017 TIME (GMT) DRY BULB
HR MIN (°C) 34,929 34,548 34.898 34.901 34,548 34.414 DAZ 34,149 0-11-01 34.895 34.903 34.705 34,812 PRI. SAL. CST-390DR File Name CTD CONVERTED MONITOR VALUES DATA PROJECT & LEG: ALTEX AUV Test Cruise 30 573 Trans. S/N トライー 208 945 375 -1.880 SEC. TEMP (°C) 1.750 1. +68 525 ΥR 1.564 1999 290 700F Q Z 1451 541 16 DATE JD= 6:4 DAY 26 E 71755 89L11-5734E PRI, TEMP. (°C) 564 START 01153,916 932 F 9 F 1 -,208 Agree of the 1,880 -.649 1,625 C05'-1,275 LONGITUDE 01 12/8/2 331. 16/3 NO11 156 AT SURFACE
Oxygen S/N End: #0 START DOWN AT DEPTH DATA ON DEG CRUISE TIMES 750 505 300.379 400.683 19:860 200.284 581,189 500 311 100 GOD 150,780 50,032 PRES. (dbar) End: 82 33 42N 5.5k SZART: 82 33,65N LATITUDE Z 83009 2568 2796 2824 2545 POS. INTENDED TRIP DEPTH 50 200 130 00 200 8 006 044 38 38 SEC COND SN SEC TEMP SN PRI COND SN PRI TEMP SN SBE 911+ SN JSCGC Healy PRESS SN CONSC CAST # 19 ន 24 8 21 22 F 15 16 17 20 9 2 5 7 6 S ო ω 4

PG 14 OF_

PG / SOF

		CRUISE: HY-01-03		PRO. ALTE	PROJECT & LEG: ALTEX AUV Test Cruise	lise			STAT	STATION DESIGNATION:	ATION:		
5.58 F: 12 20.	~ ~	NGITU	7년 90年 DE	9	29	(GMT) DRY		LNIG		CLOUD (amt)	BOTTOM DEPTH		STA. NAME/ID
MIN DEG MIN	W C	6	ОО П	A S O	+ 0 XB	20 1 3 1 4 °C)	*	(°C) (mb) ·	(deg) (m/s) 270 72		(E) S	H	401
	TIMES		JD/TIME	<u>.</u>	à			REMARKS					
	DATA ON		1	126	ا	File Name CTDc(3.	3.0AT						
	START DOWN	Z	(3	12.6	l_ 								
2824 AI DEPTH	AI DEPIH		2015	2015				ovley boold air boreol	ovlev				
2568 A 130582			3 1	130573	XTrans. S/N	CST-390DR	K	Fluor. S/N 88233					
1	1	1		CTD CONVER	VERTED MONITOR VALUES	VALUES			SAMPLE BOTTLE DATA	TTLE DATA	SAMPLE	SAMPLE BOTTLE NUMBER	MBER
PRES. (dbar) PRI. TEMP. (°C)		PRI. TEMP. (°	ට	SEC	SEC. TEMP (°C)	PRI. SAL.		SEC. SAL.	SALINITY	- LITA	SAL.	NUTR.	OXY.
7.0-	7.0-	1	11	10	2.22	34.906	9	34.914	34.916	9872716	3	101	و
0001	901	0	1	19	3000	24.50	8	34.508				701	J
		9)		-		-					0
Fo 751 -0.34	7	-0.34	5	-0.	2, 3, 42	34,8	88	34.906				107	0/
500 500 1.036	0,1		10		950.	25.75	0	34.938				401	-
			[4				- 1	
401 1.559	7	1.55	9	,	5.5%	0.5 M	5	37.953				50/	M
300 /. 8	,	7. 8	8	_	カカや・	3 4.9	22	34 930				201	4
						1 1							-
200 2.0	7		260		920.2	24.88	20	36.887				107	15
50 150	50	-	12	29 (752.	36.2	100%	3 4.8/2				80/	7
100 100 001		0	00		0.179	34.	570	34,576				601	8/
06		-1-	. 283	22	282	26	332	34.339				011	53
								,				1,71	1 11
20 (9 -1,		1	839	0	1.839	33.5	23	3 3. 55%					29
· /-	/-		839	6	1.839	33.	250	33.556				77	49
				-								-	

PG /6 OF

				X			PG	PG / 6 OF	
VESSEL: USCGC Healy		CRUISE: HY-01-03	PROJECT & LEG: ALTEX AUV Test Cruise	Cruise		STATION DESIGNATION:	TION:		
D	41.97 N	S: /2 55.19 € € €:	DATE JD=	TIME (GMT) DRY BULB	DO SEA STATE STATE STATE	WIND WIND (amt)	ВОТТОМ	STA NAME/ID	
DEG	NIN	DEG MIN	DAY MO	╂ .	(mp)	(s/m)			
7 2 4 70	12 0 N O	(301). 62E	1900	1739-11	1012 2	2003.4	9881	862RP	
z		TIMES JD/TIME	E (7)		REMARKS				
8		1	- 1	File Name CTdO/4.607	201				
1,53		N N	,00						
- 150			14.34						
PRI COND SN 25	2545 AT		18:35		Cleaned air bleed valve	Ve			
NS QNC	999	U 6xygen S/N 130583 /	130573 Trans. S/N CST-390	CST-390DR	Fluor. S/N 88233	- 1			
POS. INTENDED TRIP DEPTH			OTD CONVERTED MONIT	OR VALUES		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	TLE NUMBER	
	PRES (dbar)	PBI TEMP (°C)	SEC TEMP (°C)		SEC SAI	SAINTY	SAL	OXX.	0/0
0/6/		10.820	N8:01	874.918	34.925			\vdash	
2									
3 1500	1497	-0.783	282.0-	34.903	34.911		=	7	
1000	7	467	27.1	24 899	74907			20	69.69
-	10000		C 20 .					\vdash	
7 750	757.083	3 149	. 149	34.897	34.906		₹	27	70.6
80			•					\dashv	(
000	203,696	1.466	1.467	34.439	34.997		벌	7 36	73.9
10	, , , , , , , ,	1027	1927	21062	200 961		2	0,	78.7
3	1011104	70-	7011	25.20				+	
13 360	300 : 368	3.341	21243	त्रमृत्यव	Sel. 957	i and	611	339	74.7
4		+	-	2.1020	7 - 7		-	+	7
15 260	201, 108	7.553	2,549	34.737	34.748		02)	0	+5
16	25	2000	2000	34.840	24. Xa4		121	- 5	73.2
_	-	2010	- N. J.	C 1					(
9) 61	101.9	7641	1.492	34: +37	34,744		122	2 43	72.5
_	1	20 H	1.420	24010	720 12		172	77	74.2
21	3	71,4650	-	34, 270	04,010		5	Г —	1
22 22 23 2.6	8, 0	128:1-	7.7.9.1-	なったったっ	34,433		421	48	7,61
2 60	A 1210	-1470	11.819	1 =	X 24.423	*334 388 742	125		1
24	2:12%	>	20.0	7		2 2 2 2 2 2 2	-	+	3

PG / OF _

March College March Colleg	STATION DESIGNATION:
S & S & Z S & S & Z E	
S N N N N N N N N N	(amt) QU E A3HT7
638 TIMES B3009 DATA ON COP 12 2796 START DOWN COP 12 2796 AT DEPTH COP 2545 AT SURFACE 2568 AT SURFACE CTD CONVERTED MONITY PRES. (dbar) PRES. (dbar) PRES. (dbar) PRES. (dbar) PRES. (dbar) PRI. TEMP. (*C) SEC. TEMP (*C)	DRY BULB DEW POINT 0 S SPD. CL TY ("C) ("Mb) ↑ ↑ (dec) (mk) ↑ ↑
Signor TIMES JUTIME Signor DATA ON O9 (2) 2796 START DOWN O9 (3) 2545 AT SURFACE 2568 AT SURFACE	
START DOWN O9 (2)	REMARKS DISPLOY FORWARD TOC 400/19
2726 START DOWN 0 9 3 6	at obrut 2
2824 AT DEPTH 2545 AT SURFACE 2568 AT SURFACE CTD CONVENTED MONITOR VALUES EPTH PRES. (dbar) PRI. TEMP. (°C) SEC. TEMP (°C)	Resterted or cost 158.
2568 AT SURFACE 2568 A Oxygen SIN 130588 /3 o \$ 7 3 ATans. SIN CST-3901 DED CTD CONVERTED MONITOR VALUES EPTH PRES. (dbar) PRI. TEMP. (°C) SEC. TEMP (°C)	
PRES. (dbar) PRI. TEMP. (°C) SEC. TEMP (°C)	Cleaned air bleed valve
PRES. (dbar) PRI. TEMP. ("C) SEC. TEMP ("C)	DDB Kluor. S/N 88233 SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER
	PRI. SAL. SEC. SAL. SAL. OXY.

PG OF

VESSEL: USCGC Healy	Healy	CRUISE: HY-01-03	1SE: 11-03	PROJECT & LEG: ALTEX AUV Test Cruise	es		STATION DESIGNATION:	TION:		
		81 SJA2N ST	(3 42.71 底			∃RU2: ∃TAT∂				
CONSC CAST #	<u>.</u>	<u>}</u>	LONGITUDE	JD=	(GMT) DRY BULB	VISIBI	TYPE TA∃W	BOTTOM DEPTH S	STA. NAME/ID	
15	B & S S	52 . 48 NO	3 4 3 . I 9 E	200c + 0 1 L	HR MIN (°C)		1 (s/m) (ded)	(E) (S)		
SBE 911+ SN	+ SN 638		JD/TIME		DATA , ,	REMARKS ROST	tout of cas	7015	4.	
PRESS SN	83009		DATA ON 08	36	File Name Ctd 15 B. 67	abeut	700 m.			
PRI TEMP SN	IP SN 2796		START DOWN 08.	36						T .
SEC TEMP SN	MP SN 2824		AT DEРТН 10:0 L							
PRI COND SN	4D SN 2545					Cleaned air bleed valve	lve			,
SEC COND SN	ND SN 2568	8	X Oxygen S/N 130863 / 30	130 5 73 X Trans. S/N	N H	Fluor. S/N 88233	L			17.
POS.	INTENDED TRIP DEPTH			CTD CONVERTED MONITOR VALUES	VALUES		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	LE NUMBER	
		PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL. NUTR.	R. OXY.	pA .
-									`	Clac
2	(800	1812.127	+09-	£08'-	34.910	34.917	X34.5684463	315 NA	-	4.5
ε 4	1000	1 (GT/D)	8 117	× 7	24 899	34,966		127	7 20	90
· C				1					-	·-
9	750	750	, 650.	.057	34.893	34.900		128	2/	900
7	i i	7 City	0 6			7110110		202	+	r C
ω «	8	2000	- 2 - 2	1-5+5	34,95	046.40		7	7.7	3
10	200	7	2.000	2.009	34.966	24.973		130	23	75,3
11		9.0								7
12	200	300.	2.31	2.511	24. 952	34.990		20	77	14.7
13		4	, i	7	000	211 401		120	0'0	141
4 10	87	3	810.1	0.0.1	C	٠.			+	-
9	25/	8 ho 05	2,340	2.392	34.885	34.89a		133	35	73.3
17	1 7)	W.		100 10	104 111		-	,	4
8 9	00)	مام	1,20.5	2	21.61	54,100		151	\dagger	
2 8	Sa	50.124	-1,200	-1,201	24412	34.417		135	43	73.8
21									\dashv	No.
22	20	3/9,5	1.605	77.E	34.679	34.683		136	50	17,4%
23	5	4,6	×.	11811	22.690	33.650		127	51	14.7%
47)		1001		Ar. A. C.				$\frac{1}{2}$	-

72.54 69.80 73,4 72.2 8.69 73.2 79.3 +3.1 43 Par STA. NAME/ID SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER ŏ. 52 200 CP M 9 M 宁 29 ₹ 45 7 PG 190F. イナノ 3 デル 144 NUTR 139 143 140 ナナ 178 ナ 100 P BOTTOM DEPTH 0 STATION DESIGNATION: <u>e</u> SAL **MEATHER** X33,527893 TYPE CLOUD (amt) SALINITY WIND SPD. 4.6 (m/s) 320 WIND DIRN (deg) Cleaned air bleed valve VISIBILITY 34.929 34.320 24.795 34 905 34.906 798 IS-90-temp sensor SEA STATE 88233 34.939 34,238 34.945 SEC. SAL 34,90 365 24, 22 PRESSURE (gm) REMARKS 77 Fluor. S/N DEW POINT ပွ ctd016.60t DRY BULB 24.923 34.898 34.93 子说: 光 34.895 34,324 34.88 PRI. SAL 34.931 St. 75 24,515 CST-390DR TIME (GMT) 2143 File Name CTD CONVERTED MONITOR VALUES PROJECT & LEG: ALTEX AUV Test Cruise 101 Trans. S/N 뜻 SEC. TEMP (°C) -1,320 hEE 325 かつか 718 599 35/ J.0.C -1.807 1.73 DATE JD= DAY MO 0 (303.73 22.09 24E2 21:13 PRI. TEMP. (°C) 1.335 734 -.549 350 1282 130573 -1.320 2.07 100 LONGITUDE 01811 3.7 Oxygen S/N START DOWN AT SURFACE AT DEPTH CRUISE: HY-01-03 DATA ON DEG PRES. (dbar) 49.19 400.9 500.9 8200.84 1000.9 39, 749.4 3,9 5: 82 01.14 1 E: 82 00.51 300.5 15/2 201.1 8100 LATITUDE 83009 2796 2824 2545 2568 POS. INTENDED TRIP DEPTH 000 300 20 00 2 20 2 8 200 SEC COND SN 00 SEC TEMP SN PRI COND SN PRI TEMP SN SBE 911+ SN PRESS SN CAST # 9 16 24 7 ಕ 4 5 18 6 20 23 22 Ξ 1 C¥ 4 9 œ თ 2 ო S

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PG 2 00F

٠	T		ALIEX AUV Test Cruise	ruise				T	
S. S. 44. S. E. S. C. ATITU	, , , , , , , , , , , , , , , , , , ,	LONGITUDE	DATE JD= 294	TIME (GMT) DRY BULB D	DEW POINT PRESSURE SEA STATE SEA STA	WIND SPD. CLOUD (amt) TYPE TYPE	BOTTOM DEPTH	STA. NAME/ID	
0/781G	MIN 78	3	E 2 GC 0 1	HR MIN (°C)		. (s/m) (6	(E) 7 7 7		
SBE 911+ SN 638		TIMES JD/T		DATA	REMARKS SOO	COKNOT WINDS	ચ	STANT	
PRESS SN 83009		DATA ON	11:14	-	100HG 21-F	3	3		
PRI TEMP SN 2796		NW	7:17	CTDOID.DAT	12/19	7	JOSSIME C	CNTAUMINE	20
			C		all the vent	+ plugs n	re open	he fore	
PRICOND SN 2545 SEC COND SN 2568		AT SURFACE Cyogen S/N 130573	S. S. S. S. N.	CST-390DB	Cleaned air bleed valve	Starting	- MYPW OUT US SAMI	U2 Sample	S
유의			CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	LE NUMBER	
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL. NUTR.	R. OXY.	× × 0
	2157.0	1.805	508-	34.919	57	*34.9293595	641 11	9 (20	
380	7.8661	0/30 0	013	34.917	34,924			30 //	
	10001	756	335	34.898			15	9	7:1
	8.2001	755 537	-337	3 4.697				00	2.7
	C.02C	211	511.	34.891	54,900		27	0 2	و
	500.2	1.161	1.462	34.913	026'48		15	, , , , , , , , , , , , , , , , , , ,	2.6
	399.5	1,793	7.99	34,939	34.645		15	4 3	1
		7	2 00	2.1 9.0	24 436)_		7
	742.4	7.00.7	3.7	211-66	> (~)		(2)	_	
	7011	2.218	2.218	188 46	34.897		51	5/7	5.6
	1900	1,073	(.173	\$4.603	34.810		15	7 /7	2.6
	8 7	L7# -	- 467	212 6	225.45		//	X d	0.9
				1 1			7180	-	,
	50.00	1		34.354	34.500		5/	0,1	1.0
	20.06	-1.685	7 -1.665	34-35	22 25		01/ 1 mgo9x0	23	4.0
1				000.00	3 20 0 1		4	7 7	

PG21 OF

VESSEL: USCGC Healy		- 1	PROJECT & LEG: ALTEX AUV Test Cruise	ruise		STATION DESIGNATION:	ATION:		
	81.3737 12	E: 15, 1404"E			SURE				9
CONSC CAST #	LATITUDE	LONGITUDE	76% = Or	(GMT) DRY BULB	ı	WIND WIND OLOU CLOU OPPER	BOTTOM DEPTH S	STA. NAME/ID	
DEG	-	Wilv	DAY MO YR	HR MIN (°C)	*	\prod	(E)		
ر ا ا	3 J. S J N	1520.	210cTo 1	1655-15 6	1003	35574	1961		
SBE 911+ SN	638	TIMES JD/TIME		DATA	REMARKS 2	JKTS DRIFT	C STANT		
PRESS SN	83009	DATA ON	3:29 Pm	File Name	#1 54"	SUNFACE BOTTLE	1		
PRI TEMP SN	2796	START DOWN	3:33 Pm	CTD018.DAT					
SEC TEMP SN	2824	АТ DEРТН	4.35 Pm						
PRI COND SN	2545	AT SURFACE	5:41 Pm		Cleaned air bleed valve	alve			
NS QNC	2568	Oxygen S/N 130573	Trans. S/N CST-390	DR.	Fluor. S/N <u>88233</u>				
POS. INTENDED TRIP DEPTH	유본		CTD CONVERTED MONITO	OR VALUES		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	TLE NUMBER	> ×
	PRES. (dbar)	PRI.	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL. NUTR.	R. OXY.	1
SFC	6.1	7251 -	2457-	カッカ・とそ	33.410	334166008	18 172	2 54	
2 6Hm	1967.2	- 172	- 0772	34.904	34.915		91	9	6.6
3								-	,
4 / 500	1501.8	٥٢٢٠ –	-, 720	34.906	34.913		9/	20	9.
2								-	•
000) 9		1	333	34.892	34.905		9/	2	9
7 1000		1	- 3 KJ	34.699	34.905				9:0
8 750	751.12	. 273	.273	34.903	34.501		164	7	9.9
6									
10 500	506.5	1.337	1.331	34.929	34.733		165	7	6.7
11							,	4	
12 400	404.4	1.454	1.836	34.948	-575.75		22/	5/2	من م
13		- 1		10	110 72		,,,	-	١,
41	300.4	4.259	11.17	54.754	21.146		101		ė
4	_	074.0	0 200	110 116	200		011	0	,
16 700	1.207	7.567	7.207	24.116	37.763		3/	+	ė
17			7.000	211662	20 669		5/1	0	79
18 /50	20:0	イントント	5077	24.00	27.631			+	
19	_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.1 / 1.0	10.1.0		1		3
20	100.8	1.097	1036	54.6210	34.676		110	a a	6.0
				¢	C 20 11		101	7 0.0	7.7
22 50	50.4	-1.3276	-(.30	34.369	37,277				の、ナ
_			1 577	PC 100	124 26			4	2.4
24 50	25.5	-1.665	7/0-/-	111.711	24.30 0				

PG2 20F

1 1		CRUISE: HY-01-03	PROJECT & LEG: ALTEX AUV Test Cruise	Gruise		STATION DESIGNATION: Winch 1855		W
81 2995 N S: 15 E: LATITUDE		S 20.29 E	DATE JD=	TIME (GMT) DRY BULB D	DEW PRESSURE SEA STATE VISIBILITY	WIND WIND SPD. CLOUD (amt) DIRN. SPD. CLOUD (amt) DIRN. SPD. CLOUD (amt)	STA. NAME/ID	
MIN DEG	DEG	MIN 23 . 72	E 2 2 C T 0 1	() () () () () () () ()	(qw)	(m/s) · · · · (m)		
638 TIMES	MES		IME		REMARKS Sp	noted - m at	2	
	ATA ON	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	200	File Name C+d 0/7.64	camputer po	ersave, Power save		
	TART C	NMO	4		O Paring 0	o K		
2824 AT DEPTH	T DEP	H. H.	6,40		Solar	lin		
		en S/N 130573	Trans. S/N	N CST-390DR	Fluor. S			
			CTD CONVERTED MONITOR VALUES	TOR VALUES		SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	NUMBER OZ	7/~
PRES. (dbar)		PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY SAL. NUTR.	OXY.	_
			10 48				و آ	ه و
S. 600 5		503'-	7,40,8	34.913	34.913	X34,9257199 # 19 1+3	(A	
1499,3		724 -	+2t	34,905	34.912	7	54 6.	6.6
999,7		1.364	7.36.4	34,897	34,403	(75	25 6	و.و
				-			П	_
140.1		1233	230	34, 100	34, 407	1+0	44 61	-
9, 894		1,435	1,734	34.450	34.98	7+	36 6.8	Do
1161.2		1 624	2 524	774.957	724.95%	77	38	λ.
		W 7					П	
798.4		2,374	2,374	34.951	34,958	54	39 6	8,9
199.6	47	2.518	2.515	34,926	34.933	180	40 6.7	7
- - - - - -		2,542	0 542	£0878	34,905	£	43 6	4'9
		.			,		П	
[0]. [6 bb'l	2,00(o 34, 790	34.797	182	49	1
49.8		197	008-	724.424	34.429	183	49 7	4
		. (727 00	72.50	Mr.	7/2	4
7.1		-1,300	1,500	.5 5.	- Wicc	7	ಕ	

VESSEL:	<u>5</u> 1	CRUISE: HY-01-03	PROJECT & LEG:		1612	STATION DESIGNATION:	AATION:	; 	
	8/ (7.67W	5 34.52/E	TE JD= 7 S S S S S S S S S S S S S S S S S S	GMT) DRY BULB MIN (°C) S G - 1 - 1	SEA STATE	WIND WIND CLOUD (amt) CLOUD (amt) Cloud (amt) Cloud (amt)	воттом рертн (m)	STA. NAME/ID	
SBE 911+ SN 638 PRESS SN 8300 PRI TEMP SN 2796 SEC TEMP SN 2824	8 2	MIT/QL	50 3	DATA File Name C+d 020.dat	Possible ice Start due	plies on down	at a the	cast cast	â.
	8 8	AT SURFACE 20	S & Utrans. S/N	CST-390DR VALUES	bleed valv	AMPL		SAMPLE BOTTLE NUMBER	**************************************
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. OXY.	02 mx/L
2 2000	766)	-0.809	-0.808	34.913	34.919			185	9.9
3 / 5%	25-11	-0.705	70.705	34:30%	34.94			186 3A	9.0
6 (000	(002	-0.363	-0.362	34.887	34,90 €	וומיאסטית הן נו	1) Aroun - CK	22 781	2.9
8 756	754	0.229	0.229	34.889	34.806	7		188 23	6.7
10 500	A64	(, 777	(, 777	34.955	34.870			189 24	8.9
12 400	3 89	1-957	796-1	34.943	3 4.850			190 26×	600
14 300	3 80	2,3(2	2,5(7	34.943	34.250			191 35	40
16 26	200	3.007	3.82	34.98	34. 286			TS 751	6-3
18 150	051	2,653	7.9.2	34.663	34.909			193 41	6.7
20 (00	00 1	2.035	2.034	34.779	34.78/			74 451	8-9
22 50	67	21.678	-1.678	34.382	34. 387			195 50	92
23	4	-0.694	-0.690	33.75	33.756	\$33.769348	20	196 51	7.7
									3

PG 24 OF

												(ė	6.7	67	<i>(</i>	6.7	7	2	م ل	مل	(6.7	6.7	•	F : 3	7.3	7.3	_\
		STA. NAME/ID								NUMBER	OXY.																		
			-							SAMPLE BOTTLE NUMBER	NUTR.		/ 4 /	861	199		200	101	2	202	203		204	205		206	207	700	207
VATION:		2 2	大 7 7								SAL.	Ì	170																
STATION DESIGNATION:	(tms) QU	SPD. CLO	(deg) (m/s)	571K-5				/e		SAMPLE BOTTLE DATA	SALINITY	C	31.7504416																
	SSURE STATE STATE	, AISII	(°C) (mb) .	REMARKS ~ C				Cleaned air bleed valve	Huor. S/N 88233		SEC. SAL.	200	54.7 62	34.921	20 904		34.905	10000		34.958	34.918		34.926	34.564		34.666	34,201	27 , 72	
ā		(GMT) DRY BULB	7. 9/- 2 4 E	Ā	File Name	CTO 021, dat			DR	/ALUES	PRI. SAL.	6	1100	34.915	24 60		34.867	116 70	•	34.957	36.951		34.961	256-48		34.659	34 2015	17/ 76	34-186
PROJECT & LEG:		=Qr	22 0CT 0 1 23	DATA			7	.43	L Trans. S/N	CTD CONVERTED MONITOR VALUES	SEC. TEMP (°C)	3	016.	9/0.	1421		-027			1.840	-622.2		2.757	2-747		1.207	1 3 3 - 1	F 92 /	1.577
<u>;;</u>	16 03.74 E	LONGITUDE	MIN 759 . 75 E	MIT/QL	00 23:00	START DOWN 23:01	PTH 2324	AT SURFACE	Фхудеп S/N 130573	5	PRI. TEMP. (°C)	l	1/2/1	918.1	1	•	027	2	5.	1.840	2.23		2.775	2-947		1.200	1241	1 202	(.547)
CRUISE:	Z H)	UDE	MIN DEG	TIMES	DATA ON		4 AT DEPTH		8		PRES. (dbar)		717	2000	6.000.		751.3	0 000	2.00	J. 00h	799.9		200.00	0.051		100.1	0.05	(ņ
 	3	C L	- E	+ SN 638	SN 83009	IP SN 2796	MP SN 2824	JD SN 2545	ND SN 2568	INTENDED TRIP DEPTH			BTTM	7000	000	222	251	202	227	004	300		200	051		001	50		5
VESSEL: LISCGC Healv		CONSC CAST #	20	SBE 911+ SN	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND SN	POS.		-	+	υ 4	+	+	8	6 9	2 =	12	5 5	15	16	18	19	50	22	23	24

								3.63					6.7	9.9	5		6.0	`	g Q	5	Ø	>	ف	4	-	6.9	4	!	4.8
		STA. NAME/ID							!	UMBER	OXY.																		
		+								SAMPLE BOTTLE NUMBER	NUTR.		209	210	ī		212	213	1	214	200	70	216	212		218	2,0	8	220
ATION:	BOTTOM	DEPTH (m)	76/							SAMPLE	SAL.																		23
STATION DESIGNATION:	Y S S OUD (amt)	SPD. CLC	0 2.3	SPILES	50,					SAMPLE BOTTLE DATA	SALINITY																		4901704
	YTIJI8I:	DIRN	3 40	101	2 mm >			ed valve		SAM						<u> </u>		N.				<u> </u>		<u>_</u>		~	٥	9	7 *33
	ESSURE A	⁄∃S .	10/5	/ s)	(m)			Cleaned air bleed valve	88233		SEC. SAL.		316	308	303		34.908	20 66	10	000'		,007	4,945	24,900		1, 72a	2/12 410	30 115	34,477
		DEW POINT		REMARKS	7		[Cear	Fluor. S/N		SE		2,	34.	26		3 %	6	^	35		27	34	24		34.,			
			0.			تا			3						7		_	370	2	1:	7	-	∞	2		713	-	790	8
		DRY BULB	2-15			22. DAT			띪		PRI. SAL.		34.910	34.90	763 72	`	24.90	2		34.99	0000000	2), <u>C</u> C	34.958	P 125. 4.10	5	34,7		T.	34.468
uise		TIME (GMT)	6 3	DATA	File Namè	CTD 022.			CST-390DR	R VALUES		_	W				**											\perp	
PROJECT & LEG: ALTEX AUV Test Cruise		Ϋ́В	$\overline{}$	0	Щ.				Frans. S/N	ED MONITOR VALUES	TEMP (°C)		808	160	120		450%	- 1/	2	127	ì	>	29	. 6		268	400	-	803
PROJEC ALTEX /		DATE JD=	9		7	~		L		CTD CONVERTE	SEC. TE		3,1	-0.	20		Õ	-	50	2.	c	ď	2.659	4.0	2	3,			(
	3 H)	DATE	ш	JD/TIME	3:42	3:43	4:30	2		СТРС	(2)		4	171		\downarrow	9	(_	7	4					10	4	-	
	59,17 7,61	LONGITUDE	7.49	, ה	1	ı	1		130573		PRI. TEMP. (°C)		08.	10.7	10 47		0,039	Ì.	150	2.217	623	100.70	299.7	2,570	3	06 10	400	1	508
SE: 1-03	١	LONG	0	S	NO	START DOWN	АТ ДЕРТН	AT SURFACE	Coxygen S/N		Ā.		Ţ	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				-											
CRUISE: HY-01-03			z	TIMES	DATA ON	STAF	AT D	AT SI	3		(dbar)		1.0	5.0	C /		750.6	-	2	7		5	7		7	8	7	+	2
٠,	59 N	LATITUDE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								PRES. (dbar)		1921.	1500.	1001	7	75	Å	2	100 8		2000: 4	200.4	150.7	1 201	866	3	Ŕ	is
<u>></u>	5:810059 2: 1606.77	LAT DEG M	5	829	83009	N 2796		N 2545	SN 2568	INTENDED TRIP DEPTH			BIFF	00	0001		250		200	400	1	2	700	75.0		00	C	٥	ادر
VESSEL: USCGC Healy	Sonsc	CAST#	0228	SBE 911+ SN	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND SN	POS. INTE		-	2 BT	3 15	1	+	8 7	\perp	의 구 2	\square		4 1	+		8 0		\dashv	2 8	
ΣŠ			V	รั	<u>a</u>	<u>-</u>	Ś	<u>a</u>	ซ	ட		Ш						\perp		Ш			I.						

PG260F_

PROJECT & LEG: ALTEX AUV Test Cruise
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
DATA (b.37 File Name
15 mm 55:4
a IS
PRI. TEMP. (°C) SEC. TEMP (°C) PRI. SAL
723 · 725 34900
316 -,316 34.899
1451 1451 34.917
1,943 1,944 34,960
2,698 7,697 35.01
3,149 3,170 75.0
4592 3.582 28.024
5h0.5° 29th 180.17
4.354 4.357 35.012
2.964 34,48
2.400 2.421 34.363
2,375 2,370 34.354

PG 270F

VESSEL:	<u> </u>	CRUISE:		PROJECT & LEG:			STATION DESIGNATION:	AATION:			
S: 80 E: 86	50.23 N 50.33N	S: 16 26.34 E: (6 24.60	34 E) 100 AOA 100 I	0.00	HUSS BTATE YTIJIE	(tms) QU			<u></u>	
DEG	LATITUDE	LONGITUDE DEG MIN		E JD=	AE (GMT) DRY BULB	* SEA	IND WIND RN. SPD. CL OF (m/s) (m/s) .	BOTTOM DEPTH (m)	STA. NAME/ID	E/ID	
0348050	N 6 1 .	9 te 1	-	3007°	7. 21-68 60	\~	7		9		
Z		TIMES	JD/TIME		11-11	REMARKS	emperature reached	- /	49600	C	
		DATA ON	7.07		File Name C+004, 42	. ^	3	_ 3	000	(•
		START DOWN	01.10	ر ا		(2 90-100 meter	per ine temp.	- 1	18	5 %	いまり
		АТ DEРТН	62,2	<u>ي</u> (120x 8	S NACE S	Kept	Kept Smiliar	T	
PRI COND SN 2545		AT SURFACE	70,01		adooc 1300	Cleaned air bleed valve	Monk	an upcast		T	
IB 유		No looky		CTD CONVERTED MONITOR VALUES	R VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	EB EB	
	PRES. (dbar)		PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. 0	OXY.	(Tom To
\vdash	7.70		661	(011 /	100 110	110612			0	7	It
2 William	7716.8	1	1	<u>-</u>	D	21.10			255	0	• }-
4 750	5,475		1.865	1.858	34.969	74,980			73d	6.9	_
+	ر. در ا	+	6	7 87.	7 C	45074			235	7	ं
2 200	0		2	3	j)			R	<u> </u>	• "í,
8 (f02)	400.7	3	025	3,025	35.02	35.079			73C	0.0	00
0 3mg	300.3	8	.251	3,251	35.022	25,030			237		10
	1 1				1					1	rt
12 200	200 :	3	2,512	3.526	35,032	35,040			2%	Ì	en.
14	149.9	2	3.625	3.625	35,029	35,037			839	49	ц
16 (00	1 00 1	2	320	2,820	32,025	35.031			S.WO	1	ιŤ
71 CR	ر ا ا		07118	5,229	200 77	35 006			37.00	10	M
$\perp \downarrow$										ri I	Ø
20 20	20.4		2,52+	+05.7	24,34	01.00			2 7 7	Í T	V
22	4.7	2	574.7	Hth'z	34.396	24,390	X 38,407 241.1	24	5 n c	4	2
23			3							<u> </u>	
24]	
								K	147		

PG <u>Z Ø</u> OF	BOTTOM STA. NAME/ID (m) 2 4 7 3		NUTR. OXY. C2 1/2	2 244	and it is	7.13	246	247		2.48	9-9	55.0		25/ 7.2	252	٠			_
STATION DESIGNATION:	ND WIND WIND CLOUD (amit) (2) (1/4) (2) (2) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		SALINITY SAL.	35,0307033 28															_
	DEW POINT (mb) 'SEA STATE (CC) (mb) 'SEA STATE (AC) (Mb) 'SEA STATE (AC) (Mc) 'SEA STATE (AC) (Mc) (Mc) (Mc) (Mc) (Mc) (Mc) (Mc) (Mc		SEC. SAL.	35,024	7 0 0 21	3	35,000	34.975	3.0	54.454	34.874	24.377	;	34.72	34.(86				_
3: I Cruise	TIME (GMT) DRY BULB DEV HR MIN (°C) (C) (C) (C) (C) (C) (C) (C) (C) (C) (PRI. SAL.	35.016	75.014	- I	\$ 5.013	34.869	9		34.872	34.37	200	2	34.(7)				
PROJECT & LEG: ALTEX AUY Test Cruise	DATE DATE 12 S C CTD CON CTD CON CTD CON CTD CON CTD CON CTD CTD CON CTD CTD CON CTD CON CTD CON CTD CTD CON CTD CTD CON CTD		SEC. TEMP (°C)	3.174	3.473		3.7/8	290.7 59	3	2	6.045	3.04	7 2 2	7/17	1 2.472				
CRUISE: HY-01-03	S: 6 3 5 1 8		FRI. 1EMP. (*C)	3.180	3.471	7 - 10	7-717	7.06	4.0 50		4045	344	2.42		12.4.2				_
	88 4 5 28 A LATITUDE MIN C 4 5 28 N 638 8309 2796 2796 2568 2568 PTH	(204r) 0000	Luco. (apai)	200 458	α,			201	20 / 49		101 00	50 51	20 21		5				=
VESSEL: USCGC Healy	CONSC CAST # DEG SBE 911+ SN PRI TEMP SN PRI COND SN SEC TEMP SN SEC TEMP SN SEC TEMP SN SEC TEMP SN SEC TEMP SN TRIP COND SN TRIP DEPT		-	2 0	3	20 0	0 7	8 2	9 01		12	14	15 15	17	8 5	20	21	22	_

PG 29 OF

VESSEL:		CRUISE:		PROJECT & LEG	Ċ			STATION DESIGNATION:	NATION:		
Healy	4		- 1	ALTEX AUV Test Cruise	t Cruise	_					
び主	80 44.39 N	5 (6 36.43 E 16 37.4	n m				BESSURE STATE A	WIND (amt) PE	ВОТТОМ		
- C	LATITUDE	LONGITUDE		DAY MO VR	TIME (GMT)	DRY BULB D	, AE	SPD. CL *		STA. NAME/ID	₽
3	4.39 N	01637	. / / E	00	(3	-13 .3	5101		02 (/	
SBE 911+ SN 638		TIMES	JD/TIME		DATA	, ,	REM/				
PRESS SN 83009	90	DATA ON	(330	0	File Name	File Name Ct6026. da,	da Hystemsis	ou (45.			
PRI TEMP SN 2796		START DOWN	(330	0							
SEC TEMP SN 2824		АТ DEРТН	134/	,							
PRI COND SN 2545	5	AT SURFACE	1359	6			Cleaned air bleed valve	lve			
SEC COND SN 2568		Oxygen S/N	130573	Trans. S/N	N CST-390DR	2	Fluor. S/N <u>88233</u>				
POS. INTENDED TRIP DEPTH			CTD	CTD CONVERTED MONITOR VALUES	TOR VALUES	4		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	8 02 W
	PRES. (dbar)		PRI. TEMP. (°C)	SEC. TEMP (°C)		PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. OXY.	`
-											
2 200	161	3,	3.536	3.535	3 6	96355	35.003			253	\ \
	2 7	27	0)	6 207	,	3	140 22		1	220	0
50	2	r	0	2		~			3		<u> </u>
9	101	7	25 0.	4.021	3	4.795	34.802			255	6
7											
8 50	So	~	.370	3.378	2	4.572	34.577			256	, 0,
6						- 1					1
10 20	20	7	2.013	2.015	~	34. (81	34. 189			722	<u>)</u>
= :	-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	783	(, 783	6	36,082	24.088	4881701 48A	90	250	7.4
14											Ţ
15											_
16											Τ
17											\neg
18											
19											$\overline{}$
20											
21											Т
22											<u> </u>
23						F					Т
24										_	7

8 PG PG PG

Si 5 - 15 W 2 5 5 5 4 4 5 5	VESSEL: USCGC Healy	CRUISE: HY-01-03	ISE: 1-03	PROJECT & LEG: ALTEX AUV Test Cruise	esi		STATION DESIGNATION:	INATION:	PG \	
PHES. (Gard) PHI. TEMP. (C) SEC. TEMP. (C) PHI. SAL. NUTR. OXY Co.	CAST# DEG CONSC CAST# DEG	15-75 N 14.94 N MIN S . 40 N 60 60 6	MIN MIN J. S.	DAYE JD= 298 DAY MO YR 2 5 0 c 7 0 1 6	DBY BULB (°C) 2 (+ 6 0 2 7	8 0		BOTTON DEPTH (m) 2 23 4 4 5 Factor SAMPLE	STA. NAM STA. NAM Cal. Ca warm Gave 10 Take Samp BOTTLE NUMB	
2000 1000.6 -0.8/5 34.878 34.902 43.32.32.1 251 14 05 000.5 0.056 34.878 34.907 30.907	-	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.		2, 3/2, 3/2, 3/2, 3/2, 3/2, 3/2, 3/2, 3/
1000 1000, 0 -0.425	2	2000.	-0.815	-0.8/4	16.3	34	*34,9273921			·
750 74% 6 0.058 0.056 34.894 34.594 34.59 34.49 34.59 34.59 34.69 34.59 34.69 <td< td=""><td>\vdash</td><td></td><td>-0.415</td><td>-C, Ph</td><td></td><td>00</td><td>6.</td><td>(0</td><td></td><td>6</td></td<>	\vdash		-0.415	-C, Ph		00	6.	(0		6
500 500.6 1.907 1.902 34.983 34.780 34.790	7	149.6	0.058	1/2	- L - V -	2,				6
ψω ψω ψω 1.562 34.957 34.966 34.966 36.36 47.36 36.36 47.36 36.36 47.36 36.36 47.36 36.36 47.36 36.36 47.36 36.36 47.36 36.36 47.36 36.36 47.36 36.36 47.36 36.36 47.36 37.36 47.36 37.36 47.36 37.36 47.36 37.36 47.3	72	200.8	1.907	0	86.3	5.				9
300 300.3 2.396 2.396 34.964 34.577 2.604 36 200 200.0 2.572 34.964 34.577 2.604 36 150 150.0 2.281 2.285 34.863 34.869 2.60 40 40 100 999.4 1.375 1.364 34.704 34.708 2.68 47 20 20.2 -0.764 -0.772 34.786 34.492 2.68 47 50 4.8 -1.482 -1.482 34.505 34.492	7	400.2	3967	1-562	6.9	3.				8
150 50.0 2.572 34.934 34.940 2269 32.95 34.869	m		2.386		30	34.571			\dashv	40
150 150.0 2.281 2.285 34.863 34.869 220 40 40 40 40 40 40 40 40 40 40 40 40 40	++	3	5	5	4.93	2			+-1	6
100 99.4 1.315 1.364 34.701 34.708 24.08 42.1 50 50.2 -0.769 -0.772 34.936 34.436 34.492 34.500 30.8 47 20 20.5 -1.482 34.56 34.492 34.56 32.492		150.0		2-285	98 %				\dashv	do Vo
20 50.2 -0.769 -0.772 34.436 34.436 47 20 20.5 -1.482 34.505 34.492 34.492 2248 47		5.69	1.375	1-364	34.70	34.708		. (2	7	63
20 20.5 -1.482 34.505 34.500 48 5 4.8 -1.516 -1.515 34.492		0	0	7	9	38.436		64	+	h2.
5 4.8 -1,516 -1,515 34.492 34.492			5.	_`\	4.50	3-			++	82
		8'7	-1, 516	-1, 515	34786	34.492			(S)	

PG 3 OF

OF	1,0	STA. NAME/ID					NUMBER		OXY.																						
PG	NO NO	- 	2				SAMPLE BOTTLE NUMBER	1	NO.																						
GNATION:	В В	7 7	0/1				(47)	3	O'AL.	78																			=		
STATION DESIGNATION:	MIND (smt)	SPD. CL (m/s)					SAMPLE BOTTLE DATA	VIIN IAR		X34.9402788		*																		63	
	HESSURE STRIE	IA,	REMARKS			Cleaned air bleed valve	Fluor. S/N 88233	SEC. SAL.		34576																					
uise		HR MIN (°C)	DATA	File Name Ctd 628. 64			AD .	PRI. SAL.		34.917											53										
PROJECT & LEG: ALTEX AUV Test Cruise	- U	P P		200	15 &		CTD CONVERTED MONITOR VALUES	SEC. TEMP (°C)		1. (56	85																				
SE: 1-03	15 48-76 (F) (S) 49-96 (F) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	SH C ST E	JD/TIMI	NMC			130863	PRI. TEMP. (°C)		1.137	E													-							
10 11	3.69 N	MIN DEG . 8 C . 8						PRES. (dbar)	" -	504																					50
ealy	nul	DEG /		MP SN 2796			POS. INTENDED TRIP DEPTH		188	9																					
VESSEL: USCGC H	CONSC CAST #	0	SBE 911+ SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	Pos		- (3 8	4	2	9	7	80	o	0	=	12	5	4-	15	16	17	18	19	20	21	22	23	24

5=30.83 T=-0.928

of	9 h; to	120		
\$2 OFSTA. NAME/ID				1
A SE	SAMPLE BOTTLE NUMBER SAL. NUTR. OXY.			
SIGNATION: * WEATHER BOTTOM * WEATHER OF ALL				
STATION DESIGNATION: WIND OUT WEATHER SPD. CLIPPE WINGS WINGS	SAMPLE BOTTLE DATA SALINITY 33.8312831			
WIND W DIRN. S. (deg) (m	SAMPLE SAMPLE			
SEA STATE VISIBILITY	Cleaned air bleed valve			
DEW POINT (°C) REMARKS ("C) "BPRESSURE "A PRESSURE	Cleaned air			
E E				+
DRY BULB D	20 7 PRI. SAL.			
Cruise TIME (GMT) HR MIN O 4 3 7	33.5			
CT & LEG	ERTED MONITO			
PROJECT ALTEX AU DATE JD= DAY MO 2 2 0 CT	CTD CONVERTED MONITOR VALUES SEC. TEMP (°C) -O. 909 33			
WE WE				
A D CO	S/N 13066673 S/N 13066673 O. 9 O.			
	AT DEPTH AT SURFACE Covigen S/N			
22 2	PRES. (dbar)			
1 1(800)	4 0 0			
VESSEL: USCGC Healy CONSC CAST # DEG O 2 9 8 8 8 8 8 8 8 8 8 8	PRI COND SN 256 SEC COND SN 256 POS. INTENDED 1 TRIP DEPTH 5 6 6 6 7 7 7 7 10			
VES. USC COR SBE PRES	8 8 7 7 8 8 6 0 1 1 1 2 1 8 8 7 7 8 8 7 7 8 8 8 7 7 8 8 8 7 7 8 8 8 7 7 8 8 8 8 7 8 8 8 8 9 9 9 9	13 15 17 17 17	18 20 21 22 23 23	24

PG S SOF

VESSEL: USCGC Healy		SE:	PROJECT & LEG: ALTEX AUV Test Cruise	esir		PG STATION DESIGNATION:	PG 55 OF	
		5: 18 24.55 R. E: 18 30.09" E			BATATE STATE			
DEG	LATITUDE	LONGITUDE DEG MIN	DATE JD= T	TB.	SEV S	WIND OUR WEAT BOTTOM SPD. CL Y WEAT DEPTH	STA. NAME/ID	
	30.32 N	56.62	0 6 70 1		(C)	(m)		
z				DATA	REMARKS			
-		·	GmT	File Name	Botte 7	TRIPPEND & BESIDAING		
SEC TEMPON 27		NW	Comp	CTD 030. DAT	Depth Sonsor	STACIC 6	Meters	
·	2624 A1	7	11:50 6ml		Oxygen	was man de 1		
` <u>.</u>	0 8	Coxygen S/N 130883	Carrans. S/N	CST-390DB	Cleaned air bleed valve	Bothe 22-010.	NOT FIRE	
POS. INTENDED TRIP DEPTH			CTD CONVERTED MONITOR VALUES	21		SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	rle number	
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY SAL. NUTB	×	
2 1500	1500.0	-0.638	15900-	253.45	34.903	$\dagger \dagger$		7 7 7
3 (000	7,000/	10.419	10.419	000000000000000000000000000000000000000	24600	0		
5				0/90/	Colors	762		31.5
6 750	7.50.7	h22.0	0.225	34.402	34.912	27	.2 \\ \cdot \	2.5
8	\$ 65%	1.833	1.834	34.965	34.924	766		G (
\perp						17		
2 5	0.704	7.261	2.261	h86-h/	34.994	275		75 75
12 300	300.6	2.610	2,617	34.990	35.000	274		53.5
14 200	200.8	2,572	2.575	54-937	24.947	277	7 23.	W
16 56	150.5	2.664	2.661	34.910	34.919	278	7	3.1
18 (00	100.9	3.625	3.628	646.46	34.956	279	2.2	
20 50	20.8	166.2	3.002	07h hE	34.48	280		22.4
22 20	20.7	851.1-	-1.014	33.680	33.627		7.57	7
24	3.8	-1.475	-1.427	33.542	33.575	282	27.0	~

VESSEL		- Connect		8185.74 18 11,45E	11,456		9 <u>a</u>	PG 34	
구니		CRUISE: HY-01-03	PROJECT & LEG: ALTEX AUV Test Cruise	uise		STATION DESIGNATION:	NATION:		
CONSC CAST #	35.74 2 35.42 N	Ш			ESSURE YTTE	₹ Z (\$m6) QU(
DEG -	MIN WIN W	DEG MIN	DATE JD= TO YR I	HR MIN (°C)	AIS.	qvi'	DEPTH (m)	STA. NAME/ID	
z		MIT/db		DATA	REMARKS The	The file 1/4021	40		
PRESS SN 83 PRI TEMP SN 27	83009	DATA ON OUT 19	cm-	File Name	Mg	a	Tanc	re this fly	
SEC TEMP SN 28			7	12.01	the coil wasens to	a down	5		
PRI COND SN 25	2545 A	AT SURFACE 51.3			Cleaned air bleed valv	Cleaned air bleed valve Scheen. May be a screen 1150121	ent I resta		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IX 만		286 0001	CTD CONVERTED MONITOR VALUES	NO N	Fluor. S/N 88233	02 is definely dead SAMPLE BOTTLE NUMBER	SAMPLE BOTTL		
-	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL. NUTR.	OXY.	Ä
2 bothon	1367.9	-0.793	108.0-	34.895	906. Fr		784	12	7/ 18
020	9929	- : 416	かって	74.889	34,999		700	200	
5 6 750	750,2	9) 50:	4/70,	24,893	296.77		100	++	
8 500	500.3	1,306	1.296	4	300		000	4	
9 (100)	4. [4]	1 960	800	~P	8		987	56	
+	101	1, 22,	1,889	34,941	34.952		T87	38	
12 300	200.1	9,290	2,29	34,954	34.964		2882	34	
14 200	200.4	168.8	2,299	34,904	34.915		697	6(0)	
16 150	150.2	1 1309	1,810	34,805	34.814		290	43	
18 100	1.00.1	11.238	1,338	34.687	34,695		291	7 7	
20 50	49,9	038:1	13.8	カーカンカン	9 H H Z			100	
			3/1		2		7.67	B.	
23 70	Fred bo	-unsies	1.01	030	11. 60				
24	2000	C - *!!	44011	33.348	35.465	10 2 CW			i i
		11010	11011	33.387	33.397	* 33 429691	3 293	25	

PG 350F_

	GRUSE		PBO IFCT & FE			s.,	STATION DESIGNATION:		2	7	
HY-01-03		ļ	ALTEX AUV Test Cruise	Cruise			DISJON DESIGN	ч.	ICEE		
N F 18 4	2 2 0	1386 101 E	DATE JD≈	TIME (GMT) DRY	DRY BULB WE	W SESSURE SEA STATE	WIND WIND (amt)	BOTTOM		STA. NAME/ID	
DEG N	11.	\ \ П		HR MIN 0	++-	(qw)	L. D. S 🕸	11/			
TIMES	1	Var		+-	-	REMARKS SOYS	Cubbing	2921 Not 100	7		
DATA ON		4440	7	File Name C+C	C+4022 dit	- Shill	TA CA	a downcast	cast		
START DOWN	≥ .	Ö	44 600			found shot to the cight	B 30	meters	(different	rent	
АТ DEРТН	_		(J)			Than down					
A1 SURFACE	<u>تا ت</u>	130573	C. A. D.M.	CST.300DB	Ë	Cleaned air bleed valve	ilve				
	<u> </u>		CTD CONVERTED MONITOR VALUES	OR VALUES			SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	IUMBER	- Andrews
PRES. (dbar)	[PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL	AL.	SEC. SAL.	SALINITY	SAL.	NUTR.	OXY.	of many
		113	113	34,894	1768	34.904	34,9163752	32	394	22	845 # 848 8455
497.2	1 1	5991	599.1	34.959	159	34.969			345	2	- broke
398.2	- 1	2.067	A.064	34.97	17.1	34.984			296	44	
		2.327	2,309	34.944	74	34.450			708	280	
198.8	1 1	3,41	3.341	35.013	2	35.023			308	35	_
5.051	1 1	3.777	3.774	35.030	30	35.046			299	37	
8'901	- F - I	3.849	3.866	34,455	55	34.970			300	724	
70,7	1 1	1,399	1,345	34.5	340	34.550			301	50	
0		1.696	669,	33.844	hhy	33,854			303	17	
	4 1	-,980	000	33,762	75	33.710			303	15	
										1	
	1										
	1										

	STA, NAME/ID								UMBER		č																	
		\vdash	7		į				BOTTLEN		NUTH.	304	200	200	306		307	30%		309	310		311	315	212			
TION:	BOTTOM DEPTH	(m)	558					٠	SAMPLE BOTTLE NUMBER		SAL.															77		
STATION DESIGNATION:	CLOUD (amt) TYPE REHTAEM								E DATA		<u> </u>														1	2/2		
STATION	WIND GIR								SAMPLE BOTTLE DATA		SALINITY														10	35,84		
	WIND DIRN.	_						i valve	SAME		1							+)		γ 		
	SEA STATE VISIBILITY	3.			•			Cleaned air bleed valve	88233		SEC. SAL.	286	970	0	2/0		923	35.036		220	Ch0	0	200	633	C	178.		
	E SESSURE	$\overline{}$		REMARKS				Cleane	Tuor. S/N		SEC	34.	211	-	35.0		35	35.		35.0	37.5		3	8		53.		
	B WET BULB	╁				4		[<u>}</u>						٦												+-	
	DRY BULB	(၃)				033-047					PRI. SAL.	4.976	0		1001		510-5	35.026		-013	35.03		34.783	3.829		5.8.7		
	TIME (GMT)	NW		V	File Name	CTO 03			CST-390DR VALUES		1	C	772	1	35		M	8		35	W		8	5		2		
LEG: Test Cruise	≥ L	YR HR	<u> </u>	DATA	File	V			Trans. S/N GED MONITOR V		(0)	4			~		L	0		3	_		,	+		٩		
PROJECT & LEG: ALTEX AUV Test Cruise	-QP	QW	00		のとてて	an GMT	mant	Gut	CTD CONVERTED MONITOR VALUES		SEC. TEMP (°C)	2.13	1	1. 1.	2-683		3-105	3.540		372	4.36		3.83	456-	1 1	1 3.876		
□ A	DATE JE		17	WE.	11:15 pm		32 gm	_	CTD CON		<u>" </u>							+		}				-				
*	0 '9 _{II}		1 1 E	JD/TIME	11:	11:11	11:32	11:49	130573		PRI. TEMP. (°C)	6	7	9	239		50	3.544		219	361		3,435	0.503		212		
0	1852.80 1854 86	ΣIΣ	ナム			NWC	_	CE			PRI. TE	2.12	6	1.0	2.6	.1	5.1	7		3.	i		Š	0 -		8		
CRUISE: HY-01-03	V III	DEG	- de	TIMES	DATA ON	START DOWN	АТ DEРТН	AT SURFACE	Lexygen S/N					<u> </u>			+											
1	5 5		9 C N								PRES. (dbar)	7.4		171.0	3.99.6	il	01.4	202.2		50.7	2.66		50.7	20.3	•	5		
	81 19 30 K	MIN	31	638	83009	2796	2824	2545	2568 ID		٩	537		7.7	39		2	2					"			+	+	
		DEG	H	Ì			-		SEC COND SN 2568 POS. INTENDED	i i		Sotter-		000	004		300	200		051	00/		20	0		SFC		
VESSEL: USCGC Healy	CONSC CAST #		03381	SBE 911+ SN	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COI	,		2		4	+	7	+	6 C	╁	12	13	15	9	77 8	1 1	十	22	

PG37 OF

		STA. NAME/ID								SAMPLE BOTTLE NUMBER	TR. OXY.	7		~	9		7	S.	61		,		2			+	-
NOI		₹ S	270							SAMPLE BOT	SAL. NUTR.	34 314	Ì	~	3/6	Ċ	517	3/	31	, c	250	32	322				_
STATION DESIGNATION:		MEAT LYPE CLOU	(kt)						ŀ	SAMPLE BOTTLE DATA 6	SALINITY	5,0/358															_
	3TAT6	, AISIBI , SEV S , BBES	(dap) (dap)	REMARKS				Cleaned air bleed valve	88233	SAMPI	SEC. SAL.	4.599 X3		5,5,5	35.021		55,017	35:019	5.033	, C.F.	5	33.693	33.681				
		JLB WE		REN		4.0 AT			Fluor. S/N		PRI. SAL.	5 055.7	000	8//	5.011		0/0-55	35.011	35.023		4.013	3.687	3.676				_
EG:	est Cruise	TIME	r –	DATA	File Name	CTO 03			S/N CST-390DR	INITOR VALUES		3%		34	<u>ς</u>	ç	3	5			7	7 3	8				
PROJECT & LEG:	ALIEX AUV I	=05	7007		このかり	7	- cent	9	Trans. S/N	CTD CONVERTED MONITOR VALUES	SEC. TEMP (°C)	2 499	2 2	1-10	3.22.8	27.5	5. 43.0	3.691	4.120	6.00	5:713	.65-1-	165.1 -				
٠	17.06.57	LONGITUDE	7 0 6 . 1 1 E	JD/TIMI	0% 1	START DOWN	РТН <u>[1:2]</u>	AT SURFACE 1:35	Oxygen S/N 130573		PRI. TEMP. (°C)	2.499	6	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3.225	1142 0	からすべ	3.691	4.120	0	5:7 57	- 1.605	- 1,571				
CRUISE	13.98 S:	LATITUDE) N	TIMES	DATAON	STARI	АТ DEPTH	AT SU	(xon		PRES. (dbar)	91/hh		400.5	301.9		207.5	151.0	6.00/		20.00	19.5	3.0				
VESSEL	OSCGC Healy OSCGC HEAL OSC	CONSC CAST # LATITI	 -	SBE 911+ SN 638	PRESS SN 83009	PRI TEMP SN 2796	SEC TEMP SN 2824	PRI COND SN 2545	NS QNC	POS. INTENDED TRIP DEPTH		Bottom		400	300		2002	10 150	12 100		7 7	16 2.0	17	1	20	22	

PG 3% OF

	- 1		CRUISE			PROJECT & LEG:				STATION DE	STATION DESIGNATION:	5	5
1	"	오		"	Ā	TEX AUV Test (Cruise						
Note Control	, i	で見							FESSURE EA STATE	WIN UN (Ims) QUO.	ЯЭНТАЭ		
13 17 17 17 17 17 17 17			1 10	3	DATE.	Ş.	Ø I	++	∃S . dd (g)	SPD.	IM .		STA. NAME/ID
DOWN \$\frac{\infty}{\infty} \frac{\infty}{\infty} \frac{\infty}{\	7	I ME	2		0		<u>^</u>	-	-		1	200	- 00
5:42	83009 DATA	DATA	NO	H		GMT	File Name		14	S VO	1 0	^	
### Sept		STAF	T DOWN	150		6m7	CT003	740		clock is m	+	a retients	
6:00 6mで Start Citemed air bleed valve	ATD	AT DI	EPTH	A.	23	5n7			Drsvanav	COMP			
130572 Trans. SN CST-380DB Fluor. SN 98233 SAMPLE BOTTLE DATA	ATS	AT S	URFACE	9.9	00	Gart			Cleaned air bleed va				
(°C) SEC. TEMP (°C) PRI. SAL. SEC. SAL. \$777. 34.973 4 3.793 34.967 34.975 5.793 34.947 34.064 6 307 34.057 34.064 7 0.173 34.057 34.061 × 34.07338	٦	<u>تا</u>	xygen S/N	130573	TD CON	Trans. S/N ERTED MONIT	CST-390DF OR VALUES	<u> </u>		SAMPLE BOTTLE		SAMPLE BOTTLE NUMBER	UMBER
4 3.772 34.965 34.973 4 3.773 34.947 34.975 3.376 34.540 34.545 10 3.073 34.057 34.064 10 3.073 37.054 34.061 × 34.02738	PRES. (dbar)	_	d	RI. TEMP. (°C)	s	EC. TEMP (°C)	٩	RI. SAL.	SEC. SAL.	SALINITY	SAL.	NOTR.	OXY.
7 3.793 34.960 34.975 3.376 34.547 54.760 3.37.057 34.064 6.807 34.057 34.060 7.34.073 34.057 34.060	169.4		12	.772			~	4.965	97			273	
73 4.253 34.947 34.067 8.550.95 34.067 34.064 70.073 34.057 34.060 34.060 34.067	150.0		-	79		1	M.	3	4.9			422	
3.376 34.545 3.376 34.545 7 0.207 7 34.054 7 34.064 7 34.064 7 34.067 8557.073 87.064 7 34.067 87.073 87.07	7) 00			7767		7.7.2		5	l I ,			225	
3.576 34.5 45 4.5045 7.5045		1											
100.45 34.057 34.064 88550.45 34.061 × 34.0238	51.7					37	W	んシ	7			925	
7 0.173 34.054 34.061 × 34.0738	y-61			148.0		(4)	18	150 40	490.48			327	
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PG 39 OF

VESSEL		CRUISE:		PROJECT & LEG:			STATION DESIGNATION:	ATION:	2	
	, , , , ,	- 1		ALIEX AUV 16ST C	uise I	_	(:		to	
B	NS 6. 95	<u></u>	4°.086			∃TA:				
CONSC		w)				SESS TS AE	WIND WIND OUD	BOTTOM		
020	LATITUDE	LONGITUDE	ITUDE DATE JD=	av Ow	TIME (GMT) DRY BULB V	SIA.	SPD. CI	DEPTH	STA. NAME/ID	
1 V		7	6 3 E	0 C T 0 1	25			6110		
1+ SN 6		TIMES	JD/TIME]	DATA	REMARKS				•
PRESS SN 83C	83009	DATA ON	1240	1	File Name					,
PRI TEMP SN 2796		START DOWN	1250							
SEC TEMP SN 2824		АТ ОЕРТН	P357			[•
PRI COND SN 2545		AT SURFACE	1080		ļ	Cleaned air bleed valve	lve			
SEC COND SN 2568	86	Oxygen S/N	130573	Trans. S/N	CST-390DR	Fluor. S/N 88233				
POS. INTENDED TRIP DEPTH			ств сс	CTD CONVERTED MONITOR VALUES	R VALUES		SAMPLE BOTTLE DATA	SAMPLE	SAMPLE BOTTLE NUMBER	
	PRES. (dbar)		PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. OXY.	(2/m)
1									6	
001 2	0.101	7	200'	4.003	34.906	74.914	*34.81518	36	329	4:12
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PG OF |

VESSEL:		CRUISE:		PROJECT & LEG:	i de la companya de l			STATION DESIGNATION:	NATION:			
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<u>à</u>	Z 57 - 1	,	μ	<u>:</u>			RESS SA ST SIBILI	WIND WIND YPE	ш,		Ω	
CAST# L/	MIN	DEG	LONGITUDE DATE	DAY MO YR	HR MIN (°C)	(°C)	IA,	и.	(m)	+	STA. NAME/ID	
Н	07.64 N	0	9 E	30c T	2	•			8	7		
SBE 911+ SN 638	<u> </u>	TIMES	JD/TIME		DATA	REMARKS	VAKS SALINIZY	34 185 K21	AT ~	30 M		
PRESS SN 83009	600	DATA ON	1122		File Name CTD 0 37	KA	let rose# # 12+14	12+14 -+HXM	3 M	with open	5 pen	
PRI TEMP SN 2796	96	START DOWN	II 23			- Pac	tool - 40 minutes	MI	02 + 521. + nutrient	utrieu	4	
SEC TEMP SN 2824	54	АТ ОЕРТН	9411				Shrylles may have	have differences in results	3) VI 50	Sults		
PRI COND SN 2545	15	AT SURFACE	E /15/			[] 	Cleaned air bleed valve					
SEC COND SN 2568	98	Oxygen S/N	130573	Trans. S/N	CST-390DR	Fluor. S/N	8 <u>8233</u>					
POS. INTENDED TRIP DEPTH			СТБ	CTD CONVERTED MONITOR VALUES	OR VALUES			SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	UMBER	
	PRES. (dbar)	(i	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.		SEC. SAL.	SALINITY	SAL.	NUTR.	OXY.	
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2	2, 262		3.582	2.387	35.012	35	120'5			232	23	22.4
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PG 41 OF

VESSEL:		CRUISE:		PROJECT & LEG:	n ino		STATION DESIGNATION:	ATION:		
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CONSC CAST #		LONGITUDE		DATE JD=	TIME (GMT) DRY BULB	WE	WIND WIND CLOUI TYPE DIRN. SPD. CLOUI	BOTTOM DEPTH	A STA. NAME/ID	WE/ID
DEG	7	DEG MIN	7	₩ 2	HR MIN (°C)		(kt)	(E)		
<u> </u>	2 /				\ \ \ \	DEMADKS (A. 1.		9 3 3 3 3 3		-
	60	DATA ON	יון. תל	7 7 9	File Name Ctd 038 dat		of A IN KAMP, DULVIED (N	0000	W X 7 W)	
Z	2796	START DOWN	1	>						
SEC TEMP SN 28	2824	АТ DEРТН		bury						
PRI COND SN 25		AT SURFACE	12:05	9		Cleaned air bleed valve	alve			
NS QNC	2568	Oxygen S/N 130573		Trans. S/N	CST-390DR	Fluor. S/N 88233				
POS. INTENDED TRIP DEPTH			CTDC	CTD CONVERTED MONITOR VALUES	OR VALUES		SAMPLE BOTTLE DATA	SAMPLE	SAMPLE BOTTLE NUMBER	BER
	PRES. (dbar)) PRI. TEMP. (°C)	/P. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. 0	OXY.
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PG 420F

Oute Doc The (out) Division Outside Division Outside Division Outside			CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise	: Cruise			STATION DE	STATION DESIGNATION:		
DM MO YF HE MIN CO CO CO CO CO CO CO C	29.74 F: 12 23.02 F		50.		-Ci		1170-2	SEE STATE STATE	WIND Comt) Comt)	ЯЭНТАЭМ		AME/ID
THE THIS THE	MIN DEG MIN	1 1 _		9	MO	HR MIN	++-	(qm)). (\$\frac{1}{2}	۷. ۱	1	
CTD039.D4T	TIMES	<u>.</u>	-1] [)	DATA	-	REMARKS			-	
CTD039.D4T	N.	N.	,	3:0	16	File Name		Capen	1	0	1	
Cleaned air bleed valve Cleaned air bleed valve CTD CONVENTED MONTON VALUES SEC. FAL SALINITY 174 34.982 34.982 34.984 274 34.982 34.984 274 34.982 34.984 274 37.694 35.694 274 37.697 37.694 34.99 35.697 35.694 34.99 35.697 35.694 3.49 35.697 35.697 3.49 35.697	START DOWN	•	(8)	0	9	CTD039	. DAT					
Cleaned air bleed valve Cronvertie Driving Cr	•	•	W	:17								
CTD CONVENTED MONITOR VALUES SEC. TEMP (°C) PRIL SAL 2. 16.6 2. 16.6 2. 16.6 2. 16.6 2. 16.6 2. 16.6 2. 16.6 2. 16.6 2. 16.6 2. 16.6 2. 16.6 3. 4. 76.0 3. 4. 76.0 3. 5. 0.40 3. 0.40				7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Cleaned air bleed va	live			
SEC. TEMP (°°) PRI. SAL. SEC. SAL. SALINITY SAL. NUTR. 2. 16.c. 34.587 34.580 34.54 2. 63.0 24.976 34.580 34.590 3. 24.0 3 5. 0 3 5. 0 40 4. 24.0 3 5. 0 3 5. 0 40 7. 4. 634 35. 604 35. 604 35. 604 7. 4. 634 33. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 35. 604 7. 64.9 35. 604 35. 604 7. 64.9 35. 604 35. 604 7. 64.9 35. 604 35. 604 7. 64.9 35. 604 35. 604 7. 64.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36	Ux/gen S/N 1305/3		1305/3	ပ်	TD CONVERTED MONITOR	TOR VALUES	-		SAMPLE BOTTLE [LE BOTTLE NU	MBER
3.60. 34.887 34.586 642. 2.11.2 2.16. 34.996 34.980 3.50.30 3.50.40 3.50.30 3.50.40 3.50.50 3.	PRES. (dbar) PRI. TEMP. (°C)		I. TEMP. (°C)		SEC. TEMP (°C)		II. SAL.	SEC. SAL.	SALINITY	SAL	NCTR.	OXY.
3.630 34.869 34.991 3.630 34.992 34.991 3.630 34.992 35.094 3.694 35.099 35.094 3.694 35.099 35.096 3.694 39.596 33.606 × 33.644 39 35.696												
2.160 34.982 34.980 2.630 34.992 34.980 3.530 34.992 35.040 3.540 35.039 35.040 4.544 35.050 35.040 3.594 33.606 ×33,62467 39 35	12 2.689	1	`		1,	8	2	5			345	
3.630 34.976 34.960 3.5070 35.040 4.524 35.050 35.046 4.524 33.050 35.046 3.5070 35.049 3.5070 35.049 3.5070 35.049 3.5070 35.049 3.5070 33.606 3.5070 33.606 3.5070 33.606 3.5070 33.606	500.0 2.165	1 1	1 1		16	3	36	34.591			376	
3.364 35.031 35.040 3.493 35.039 35.040 4.264 35.050 35.049 4.634 35.050 35.049 3.5070 35.049 3.5070 35.049 3.5070 35.049 3.5070 35.049 3.5070 35.049				1			24				0	
3.564 35.031 35.040 34. 3.490 35.039 35.046 35. 4.724 35.050 35.049 35. 6.434 35.050 35.049 35. 6.409 33.602 ×33.602 ×33.604 39 351	430.0 2.618	2.618	2.618	- 1	7.650	<i>C^k</i>	4.976	34.580			547	
8.490 35.039 35.046 4.264 35.058 35.058 35. 6.434 35.050 35.049 35. 8.846 35.604 35.606 × 33.62467 39 35.	300.0 3.364	3.364	3.364	1 1	3.364	35		35.040			348	
4.244 35.050 35.058 35.054 35. 35.049 35.050 35.049 -1.409 35.604 35.601 × 35.604 39 35.	200.02	3.690	3.290	1 1	3.490	58	.039	35.046			3+9	
8-846 35-050 35-049 8-846 34-602 34-701 1.409 33.602 33.602 × 33.62467 39 351	149.6	4,264	4,264	l l	12.4	2	-,049	50.7			350	
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-1.409 33.608 33.601 × 33.62467 39 35	50.6 3.800			1 1	3.846	3,	09	7			35.5	
-1.549 33.596 33.60C × 33,62467 39 257	19.9	1	1		1.409	23	3.60%	33.61	,			
-1.549 33.596 33.60L X33.62467 39							1				1 1	
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PG 430F_

C OF . L E		100		lopol s road			STATION DESIGNATION:	-NOTION:		
Control Cont			33	ALTEX AUV Test C	ruise		OTATION DESIG	SIAN IOIN.		
DEEG NOTE LONGTINE LONGTI	5.49 A					3TATS A	S D DUD (amt) E		Σ	
The O	UDE	DEG	LONGITUDE	D= MO	DRY BULB	SIV *	(£)		-	ME/ID
The part	. 26	7 Q N	207.75E	0 6 750 1	0			104	Ţ	40
STATE DOWN 23-54		TIMES	JD/TIME		ЭАТА	REMARKS				
STANT DOWN AT DEFTH AT SURFACE AT SURFACE AND SEC TEMP (**) PRIL TEMP. (**) P		DATAC			ile Name					
Other Othe		START			CTO 040. DAT					
Oxygen SN 139573		AT DEP		0						
Onyon SN 130573		AT SUR				Cleaned air bleed va	Ve			
PRI TEMP.(C) SEC. TEMP (C) PRI SAL SEC. SAL SALINITY SAL NUTR. C. 6223 C. 622 24.887 24.899 256 C. 6223 C. 622 24.887 24.899 256 C. 6223 C. 622 24.890 24.899 256 C. 6223 C. 622 24.997 24.997 256 C. 6223 C. 622 24.967 24.997 256 C. 6223 C. 622 24.967 25.004 25.005 C. 634 C. 622 C. 622 25.004 25.005 C. 634 C. 622 C. 622 C. 622 C. 635 C. 6		ixo	130573	Trans. S/N TD CONVERTED MONITC	CST-390DR IR VALUES		SAMPLE BOTTLE DAT		E BOTTLE NUI	ABER
2.497 24.899 34.899 35.0023 34.899 35.004 34.899 35.004 35.004 35.004 35.004 35.004 35.004 35.004 35.005 34.9020 34.9020 35.0023 35.004 35.002						i c	Villai IA Q		<u> </u>	}
20.023 34.867 34.879 44.849 44	PHES.	(dbar)	PRI. LEMP. (°C)	SEC. TEMP ("C)	PRI. SAL.	SEC. SAL.	SALINIT	SAL:	ri O	
2.894 34.890 34.899 2.1.854 34.945 34.899 2.894 2.500 34.995 35.004 2.894 2.500 35.000 2.894 2.5000 35.000 4.011 4.012 25.040 35.050 4.242 35.040 35.050 4.242 35.040 35.050 4.242 35.040 35.050 4.242 35.040 35.050 4.242 35.040 35.050	1044	80	533	N	88	a	X3491116	40	385	
3 1.855 1.854 34.967 34.967 34.967 35.01 35.004 3 2.8497 35.004 35.004 35.005 35.015 35.015 35.015 4.005 35.015 35.025 4.005 35.025 4.005 4.005 35.005 4.005 4.005 4.005 35.005 4.005 4.005 4.005 35.005 4.005	750	-	0.023	0.023	-	- 1			35%	
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8 2.894 25,006 35,0015 35,0025 4,025 25,015 35,025 35,025 4,246 35,040 35,020 35,020 4,246 35,040 35,020 34,929 4,246 35,040 35,025 34,929 4,246 35,040 35,040 35,020 34,929 5,020 34,929 35,020 34,929 35,020 34,929 35,020 34,929 35,020 34,929 35,020 34,929 35,020 34,929 35,020 34,920 35,020 35,02	599		7.497	2.500	Ι.	· o			328	
2.894										
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4.25.656 4.246 25.040 35.056 4.246 35.006 4.246 35.007 4.833 34.920 34.924 - 0.010 33.935 - 0.042 - 0.012 33.936 - 0.043 - 0.013 33.935	199	ų	2,443		5.0	N	2			
4.827 4.853 34.920 35.008 4.827 4.853 34.920 34.929 - 0.072 - 0.010 33.935 32.959 - 1.541 53.554 33.55.51	149	4	4.011	هَ	l v	25,050			3,5	
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4.827 4.833 34.920 34.929 4 - 6.073 - 0.010 33.935 32.959 5 - 1.541 33.534 33.534	96	٥	052 h	4.246	35.	00				
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35.51 -1.541 33.574 HF3.52 HB3.1- 125.1-	19	구.		5	33	3,93			795	
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PG 4FOF

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	-	Н	8							SAMPLE BOTTLE NUMBER	NUTR.		304	385		366	2,1	+ 92	368		369												
ATION:	BOTTOM	(m)	02		1					SAMPLE	SAL.		4)																		1		
STATION DESIGNATION:	WEATHER SOUD (amt)	(kt) * *								SAMPLE BOTTLE DATA	SALINITY									,	34.64732												
	VISIBILITY D WIND	Ш						d valve		SAM								+		-	**			1		1	1				$\frac{1}{1}$	$\frac{1}{1}$	-
,	PRESSURE STATS ABS	(mb)		REMARKS				Cleaned air bleed valve	S/N 88233		SEC. SAL.		34,969	34.968		34.914	62/12	7 9 1	34,634		34.63												
	WET BULB	(°C)	•		7		 		Fluor. S/N			7	(4)			+	-					$\frac{1}{1}$				1		+		+	+	+	_
	DRY BULB	Н	•		C+d 041.dzt				NB NB		PRI. SAL.		1.760	24.960		34,892	64	24.00.70	34.626		34,623												
nise	TIME (GMT)	HR MIN	/3 ()	DATA	File Name				CST-390DR	3 VALUES			37	(4)		(4)		3			(4)										1		
PROJECT & LEG: ALTEX AUV Test Cruise	-OC	MO YR	0 dT0 1	Ω	<u> </u>				Trans. S/N	CTD CONVERTED MONITOR VALUES	SEC. TEMP (°C)		2.567	3,572		4.314	0170	7	3,502		3,496									:			
P A	DATE JE		\vdash	ME	1300	1300	1311	323		CTD CON	0,		-	~									-			1		-			+	+	_
	009 12,01 600000000000000000000000000000000000	MIN	1.688 E 31	JD/TIME	Ä	l		-	J30573		PRI. TEMP. (°C)		3.567	3.87		4.367	,	2,547	12.501	1	3.498												
CRUISE: HY-01-03	20 12 100 100 100 100 100 100 100 100 10	DEG	1000	TIMES	DATA ON	START DOWN	АТ ДЕРТН	AT SURFACE	Oxygen S/N				<u> </u>				+					1				-	-	-			1	+	
CR HY	SEN		0 N 0 t	Ţ	¥ 	ST	AT	AT			PRES. (dbar)		5. 461	150.1		100.3		20,1	19.6		4,5												
	78 51. 78 51, ATITUDE	MIN	ק	638	83009	2796	2824	2545	2568	다.			Ę.				<u> </u>				1/2										<u> </u>		_
L: > Healy	NM	DEG	811	1+ SN		MP SN	SEC TEMP SN	PRI COND SN	SEC COND SN	INTENDED TRIP DEPTH			Botton	25		201	(S	20		SURFICE												
VESSEL: USCGC Healy	CONSC CAST #		Of	SBE 911+ SN	PRESS SN	PRI TEMP SN	SEC TE	PRICO	SEC C	POS.		1	2	ю 4	2	9	7	ω σ	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24

PG 45F

	H STA. NAME/ID					SAMPLE BOTTLE NUMBER	NUTR. OXY.	240	\vdash	41 1FE	372 18	(3+5 20	374 21	\dashv	375 49										
NATION:	BOTTOM DEPTH (m)				L		SAL.	ر ع																		
STATION DESIGNATION:	WIND WIND SPD (Amt) (Amt			, e	A SECTION OF SECTION S	SAMPLE BOTTLE DATA	SALINITY	x34,33327																		
	WET BULB CO SEA STATE SEA STATE YISIBILITY A SEA STATE Y OF SEA STATE Y	REMARKS		Cleaned air bleed valve	Fluor. S/N 88233		SEC. SAL.	36.002	1 1	36.228	34.930	3	120.15	36.38		34.36										
	(GMT) DRY BULB (°C)	DATA File Name C+6 042. det			띪	ılues	PRI. SAL.	34.975		38689	24. 920	. 3	37, 624	3 Y. 345		34.301										
PROJECT & LEG: ALTEX AUV Test Cruise	DD= MO YR O C T 0 1		23		Trans. S/N	CTD CONVERTED MONITOR VALUES	SEC. TEMP (°C)	3.624		4.320	4.649		5. 76%	2.129		(. 506										
:: S3	LONGITUDE DATE MIN DAY	JD/TIME ~ / S /	75/		<u> </u> Охудел S/N 130573		PRI. TEMP. (°C)	3.625		6.320	529.5	7 0 11.	7.6.5	2.193		1,500										
CRUISE: HY-01-03	LATITUDE DEG		START DOWN AT DEPTH				PRES. (dbar)	66)		85/	80	(0	20		2.5										
: Healy	ري راي		IP SN 2796	ID SN 2545	ND SN 2568	INTENDED TRIP DEPTH		84		150	00)		20	20		5										-
VESSEL: USCGC Healy	CONSC CAST #	SBE 911+ SN PRESS SN	PRI TEMP SN SEC TEMP SN	PRI COND SN	SEC COND SN	POS.		- 8	8	4	9	7	ω σ	9 0	11	12	£ 4	15	16	17	18	19	20	21	22	23

PG to OF

VESSEL:		CRUISE:		PROJECT & LEG:	ا اندر ا			STATION DESIGNATION:	ATION:			
5:48°51.89° E.18°51.65°	N. 681.N	2.089,94	产品	ALIEA AUV 183	200		∃TAT	(amt) C	, ,	,		
CONSC CAST #	LATITUDE	LONGITUDE) "	JD=	TIME (GMT)	DRY BULB	SEA S	WIND WIND CLOUT YPE DIRN. SPD. CLOUT	BOTTOM DEPTH		STA. NAME/ID	
DEG MI	NIM F	DEG O K O G	MIN DAY	MO VE	HR MIN	(0°C)		(deg) (kt) * *	(m)	4		UPC.
)	_	J P		+=		REMARKS (eplaced	repared dissolved 0	01 SPASOC	SOC (MINUS	-	ast un a
PRESS SN 83009	60	DATA ON	64.91	9	File Name	C+d 643. dat	2 bubbles	used in cast 1-6	4	د		2 2s
PRI TEMP SN 2796	94	START DOWN	16:50	20			-Stopped (-Shapped @ Lemetus to soak of sensor until	o, sen	sor unti		tw
SEC TEMP SN 2824	14	АТ БЕРТН	19:	\sim			17:00 , Whe	re soike is. I Di	PWZS	Was on during	2	ell
-	5	AT SURFACE	17:56	0 PM			saned air ble	We downcast so	first 3	30 meters	Mage	!)
SEC COND SN 2568 POS. INTENDED TRIP DEPTH	88	Oxygen S/N	486573 1305/8.5 CTD (58.5 Trans. S/N CST-390 CTD CONVERTED MONITOR VALUES	N CST-390DR TOR VALUES		Fluor. S/N 88233 (A	SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBI	SAMPLE	SAMPLE BOTTLE NUMBER	\ E	upeust as well
	PRES. (dbar)		PRI. TEMP. (°C)	SEC. TEMP (°C)		PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR.	OXY.	02 m1/2
-	1										1	1
2 bottom	910.9	`-	704	hog:	3	2. 899 2. 899	34.908	*34,92287	43	376	¥	6.9
4 750	74817		1,582	1.580	3 6	4.948	34,958			377	15	8,8
2000	560.3	2	2.932	2.931	7	26.0.4	25,023			378		2.4
										Ċ.		D'A
8 600	0 107	4	294	3.481	3	36.045	35,055			379		1.0
10 30O	299.P	3	3971	3975	3(35.060	35.069			380		0 &
12 200	200.4	7	4.82 7	H-659	3.5	5.089	35,098			381		7.6
13 50	150,3	8	£11.5	5.113	Ň	35.084	35.095			384		7,7
	40			07.11		808	011 97 1			202		***
16	0001	*	41640		150		-1			000		9 T
18 O	50,0		4,000	4.029		34,579	34.584			384		- 1.00
20 20	19.6		1,600	1.598	(1)	34.162	34.169			385	53	8.9
21				0						\top	-	~
22 Suiffice	10 -		1997	1.549	3.	34,166	34.169			986	24	-
24												

PG 470F_

VESSEL: USCGC Healy		CRUISE: HY-01-03	:	PROJECT & LEG: ALTEX AUV Test Cruise	ruise		STATION DESIGNATION:	(ATION:		
5,78.31 E.78°5 CONSC CAST #	<u> </u>	5, 7, 38-67E E. 7. 39,15 E	m m "	#Q7	TIME (GMT) DRY BULB	WEBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	WIND STATER OPEN (SIMI)	BOTTOM DEPTH	STA, NAME/ID	
DEG 7	MIN	DEG MIN	9 K	31 0 CT 0 1	(0)	(qm)	(x)	L) /	1	
SBE 911+ SN 638		4	JD/TIME		DATA	REMARKS high 0	high of still on descont	t to	to 30m	
	8	DATA ON	19.23			- onespile at	onespile at 340 m (salining)	- ON	-one by salispile a depar	e o depor
		START DOWN	(4,25		C10043. AZT	- प्रायात विकासिक	.			
PRI COND SN 2824		AT SURFACE	20:19	7		Cleaned air bleed valve	2 Z Z			
7			180878 130583	Trans. S/N	BO	Fluor. S/N 88233				
		1		CTD CONVERTED MONITOR VALUES	 		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	<u>«</u>
	PRES. (dbar)		PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. OXY.	, D2 m1/L
-										9.5
2 botton	H-FP01	1,	8118,-	898	34.887	34.896			387	
4 750	748	9,	119,	119,	34.903	34.911			388	7 <u>9</u>
5 500	214	2,	2,483	2,483	34.994	35. 60H			389	مر ق
\vdash) (
8 (0)	399.5	2	201	3,202	35.023	35.033			340	У Б
10 2000	299.1	70	3,607	3.607	3:037	3 3,046			341	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>
12 2000	laa, S	60	A54	3.954	35.033	740,28			392	00 6-
\vdash									0	7
200	7,06)	4	4.464	4.467	36.054	35.00			51.5	ب ا
16 100	81.B	7	4,970	4,965	35.036	440.55			394	⊗ Ø
18 50	9. Kg	S	5,423	5.040.5	34.996	35.04			395	<i>%</i>
19	4,6		200	1,766	24,223	PK, 42			396	9
╁┈			7							
22 SUVAN	4.3	-	1.756	1.756	34,394	34,237	*34.25.324	44	397	9
23										
24										٦

PG 480F_

1

Q	1, 02 m1/L	6-6	9.6	5.8	3.	- W	7.7	7.7	7.2	7.3	2.8	3.	
BOTTOM STA. NAME/ID (m) Z Z /	NUTR. OXY.	800	399	400)6	705	403	toh	405	200	407	%o r	
BOTTOM DEPTH (m) 3 2	SAL.	4/5 3	3	4)07	7	1	3	2	5	3	2	
STATION DESIGNATION: WIND WIND DE HER BOT COMMENTE BOT COMMENT COMMEN	SALINITY	×34,90339											
REMARKS REMARKS Cleaned air bleed valv Fluor. S/N REMARKS	SEC. SAL.	24,890	34.905	55.007	35.010	35.038	35.005	35.076	35.118	34.824	34.138	34.137	
DRY BULB (*C) (*C) (*C) (*C) (*C) (*DERY BULB (*C) (PRI. SAL.	34880	34.895	34.998	35.001	35.024	35.05.5	35.066	35.108	34.800	34.133	34130	
PROJECT & LEG: ALTEX AUV Test Cruis E JD= TIII V MO YR H DA: C C L T S C L T S C L T Tile S C L T S C L	SEC. TEMP (°C)	-0.65	355.	2-470	2 806	3.362	4.0.4	4 504	5.500	4.477	0,973	846.0	
GITUDE MIN 100TIN 2 2 2 2 2 2 2 2 2	PRI. TEMP. (°C)	-0.676	355	2-4 70	2.806	3.361	110-h	4.503	5.497	4.34	0.967	8960	
TITUDE TIMES OP DATA STAR STAR STAR STAR STAR STAR STAR STAR	PRES. (dbar)	1,000/	750.3	200.0	399.8	259.9	200.3	149.7	1-00/	7.0.4	20.8	1,6	
Healy S 7 DEG SN 8 SN 2 SN 2 SN 2 SN 2 NTENDED RIP DEPTIL		000)	750	260	97	38	200	(50	(00	Se	02	Ls	
CONSC CAST # CONSC CAST # SEE 911+ SPRESS SN PRI TEMP SEC TEMP SEC COND PRI		1 2	ю 4	5	7	6 01	12	£ 41	5 6	17	19	22	23

PG 410F_

VESSEL: USCGC Healv	CRL	CRUISE: HY-01-03	PROJECT & LEG: ALTEX AUY Test Cruise	nise		STATION DESIGNATION:	VATION:		
S: 78	5216	15 02 3 25 34			3TAT:	D (amt)			1
F	UDE	LONGITUDE	=Qr	(GMT) DRY BULB	AISIBI SEV 2 LBE2	SPD.	8 8	A STA. NAME/ID	۵
046 785	Z C 0 . 7	006 24.07 E C	DAY MO	0/ 4 0 (°C)	(°C) (mb) * *	(deg) (kt)	2080 2080		I
Z		ďΓ	+	DATA	REMARKS				
PRESS SN 83C		DATA ON / COS	6r	ا					$\overline{}$
-		NW NW	oml	CTD O46. PAT					
SEC TEMP SN 2824		'	\sim						
PRI COND SN 2545			3		ane	lve			
SEC COND SN 2568 POS. INTENDED	8		583 Trans. S/N CST-39C CTD CONVERTED MONITOR VALUES	<u>Non</u>	Fluor. S/N <u>88233</u>	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	l _m
									- (
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. OXY	
\dashv			0		9			901.	. ;
C007 2	0.3661	-0.880	C8x .O-	54.888	ント・ペンの			53	
1500	7.8641	785	186-	34.887	34.895			cit	19.6
5 ,000	8000	7.7	1,0	393 78	フレダ かと			//7	7.6
7		٦	`	1					T
750	250.3	しゅか、1	1.465	34.876	133 76			415	<u>6</u>
6	2	30	20	ともが、ナベ	24.902			217	G
+		8 2	3	3	-			X	`
12 400	700,0	777	.507	34.905	34.913			414	9
13	9	1177	(111)	とから かと	54 904			417	(X)
\perp	늬		-1		-1				
16 200	199.4	2.830	\$.830	34.998	35.008			2/4	~
021	0. 149	3, 194	7-194	35.006	35.015			CIT	\$ \$
6			1						
001	1.001	۲%۱.۲	4.176	34.975	386 48			217	7
C 14	7.00	2 751	C+C -E	うかがから	C33 72			414	<u>ې</u> ن
1									<u> </u>
24 5	7.7	3.716	3.717	34.846	34 853	X34.86897	46	420	7.7
						•			

PG 50F

VESSEL: CRUISE: USCGC Healv , HY-01-03	CRUISE HY-01-0	CRUISE HY-01-0	9		PR	PROJECT & LEG: ALTEX AUV Test Cruise	ruse			STAT	STATION DESIGNATION:	TION:		
: 26 52.06 N S: 5 36.6/ N 37 94, CA E: 605 34, 66 E	72.06 N S: 5 36.6/ N P4, C4 E: 205 35, 66 F	5: 5 3 6.61 N E: 205 35: 86 F	Z	<u>C</u>			ENG	200	EA STATE STATE STATE	ONIW GNIW	LOUD (amt) YPE YEATHER	BOTTOM	A P P P P P P P P P P P P P P P P P P P	1
DEG MIN DEG MIN DAY	MIN DEG MIN DAY	DEG MIN DAY	DAY	¹ 	<u> </u> ≚[ˈ	Ϋ́	N W	++	G . (qui)	\top	۸.	(E)		
7 5 1 5 0 N 0 0 8 8 3 . L	S (0005 331.48 E101			2	-	0321	•				29 29 29 29		
SBE 911+ SN 638 TIMES JULIIME DEFECCION 92000 TATA ON 4:32 CMT	DATA ON	JOYTIME 4:32	32	32	4		DATA File Neme		REMARKS	1100	miteus			
SN 2796 START DOWN 4:35	START DOWN 4:35	4:35			3		CTOOL	7.04T	7	1 1	,			
1 2824 AT DEPTH 5:24 C	АТ DEРТН 5:4	5:4	`	`	3									
AT SURFACE 6 45	AT SURFACE 645	549	549		╽				Cleaned air bleed valve	alve				
N 130578 13058'3 CTD CONV	8 Voxygen S/N 136578 1365	130578 1365	130578 (36	83 STD CONVERT	1 E	ERTED MONITO	CST-390DR		Mrluor, S/N 88233	SAMPLE BC	SAMPLE BOTTLE DATA	SAMPLE	SAMPLE BOTTLE NUMBER	
	H-				}									0 1
PRES. (dbar) PRI. TEMP. (°C) SEC.	PRI. TEMP. (°C)	PRI. TEMP. (°C)	$\frac{1}{1}$	SEC	ပ္ပါ	SEC. TEMP (°C)	PR	PRI. SAL.	SEC. SAL.	SALI	SALINITY	SAL.	NUTR. OXY.	
B+m 2546.0 -0.584 -0	135.0 - 0.24.52	188-0-	745.0	0,	0	10.844	34	148.48	268.76	×34.91362	1362	4	124	13.0
2000 - 0.839 -0	2000.0 - 0.839	- 0.834		0-	9	0.839	34	7.887	34,901				422-	€ = —
10- tht.o- t.96hl 005/	- tht.o- t.96h1	- tht'0-	- +ht			ナロナ	75	34.8911	24,900				423	5 V. 0
0- 939:0- 6:0001	- 0,000)	0.00	900	0	0	0.626	34	1.872	34.580				hzh	0 0 0
75 752.5 -0.340 -0.	-0.340	-0.340		5	0	18/	<u>**</u>	24. 8% 0	34.801				72h	<u>e</u>
0.1 220,1 0. JPU 002	1,020,1	1,020,1	4	0.1	0	520.	3	126'42	24,930				97.h	00 [vi
400 399,0 1,901	1061 0:	106			"-	+06,1	[7]	146,42	34.980				424	1 00
300 200,6 2,770 2	2,770	2,770		2	N	7.tt.2	35	5.015	420,25				428	80
200 198.8 3.2001 3	198.8 3.2001	2.239	200	N	M	3.20 8	35	S, Q.4	55.030				424	M Ø
150.0 3.655 3.	3.655 3.	3.655 3.	10	10	3	3.656		25.040	1 4				430	4 80/
100 100,1 2,501 2,	100.1 2.501	2, 561	. 501		3400	2,561		24,838	なった				437	47
5 to 2,414 2	t117 7'1	7.414	ナ	7	2	H1H'Z	क्र	34.4%	07t'78				438	4

PG ST OF

				,			-	5	
VESSEL: USCGC Healy		CRUISE: HY-01-03	PROJECT & LEG: ALTEX AUV Test Cruise	Sruise	,	STATION DESIGNATION:	ATION:	48	
CONSC	14 N	24年			RESSURE STATE SIBILITY	WIND WIND (amr) DUO.	BOTTOM		
冒	LATITUDE	LONGITUDE DEG MIN	DAY MO YR	TIME (GMT) DRY BULB HR MIN (°C)	IA.	SPD.	(m)	STA. NAME/ID	25
0487	S	447	NOV01	57-13	08	3626	15/2	148	1.6
SBE 911+ SN	638	TIMES JD/TIME		DATA	REMARKS Dewe	1 S 501/10. (a)	22 60	d bar.	
PRESS SN	83009	DATA ON DEST	ts	File Name CTOO48.cat	- Fa	,			
PRI TEMP SN	2796	START DOWN 085	57						
SEC TEMP SN	2824	AT DEPTH C9 5	57						
PRI COND SN	2545	AT SURFACE (!	40		Cleaned air bleed valve	lve			
	2568	Oxygen S/N 488578 1305	430578 CTrans. S/N CST-390	<u>IDR</u>	Fluor. S/N <u>88233</u>				
POS. INTENDED TRIP DEPTH	ЕРТН		TD CONVERTED MONIT	OR VALUES		SAMPLE BOTTLE DATA	SAMPLE B	SAMPLE BOTTLE NUMBER	
	PRES. (dbar)	r) PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. OXY.	92 mg
1									
2 BOTTON	0772 Ha	0 -0.853	-0.854	34.894	34.902		١	424	ni
s 4 7000	8861	7.8.7	10.82	34.853	34.501		12	435	_
0001 9	2,000,3	5 -0.604	-0.602	34.874	34,884		7	43%	0_
\top	1 6112	1.00	= 7 01	24 088	250 72			421	0.
200				N.	r R			5	- -
10 SBO	500,9	1,080	130.1	34,925	34,934		3	438	4,6
11 0	7 302	- 0	0	876 172	400 nz		1	1129	4
2 5	2		2	70					
14 300	299,5	95t,2	£5±'Z	55.013	35,023		7	244	(y)
	000	1000	7	6600	25/11			1111	o,
16 200			+27.0	5	10.00		3		
18 150	8,021	2,572	Hts2	35.035	35,042		בו	7hh	ナカ
19							-	C	G G
20 100	100.8	3,544	2,560	475.45	34,766		3	2445	<u> </u>
22 50	51.3	5 3,620	3,626	34.871	24.878		7	hhh	5,4
23					1				9
24 SURPACE	25	1.854	でで	24,567	84,040	12860,20	20	chh>	\ \ \ \

PG 5 20F

VESSEL: USCGC Healv	CRU	CRUISE: HY-01-03	PROJECT & LEG: At TEX AUY Test Cruise	esin		STATION DESIGNATION:	ATION:	
84: N	S1.96 N	004 02,28			SURE STATE ILITY		t	
_	ITUDE	LONGITUDE	=Qr	(GMT) DRY BULB	PRES	WIND SPD.	BOTTOM ({ { }	
4 9 7 8 S	71. S7 N O	00402.8 (EO	DAY MO YR	HR MIN (°C)	(O°)	(deg) (kt) * *	(B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	<u> </u>
SBE 911+ SN 638	TIMES	SS JD/TIME	0	DATA	REMARKS			
PRESS SN 83009		DATA ON 1243		File Name	good match	- 1		
PRI TEMP SN 2796		START DOWN 124	2	(+d 049. da+	- 1	the tewspikes seem to correlate	orrelate withfirm bottles	offles
SEC TEMP SN 2824		-1	.		02 4 12C	20th V		1
PRI COND SN 2545			<i>b c</i>		aue	ve spille as	s soon as leaving water	भ्रा
SEC COND SN 2568		Oxygen S/N 128573 1305783	583 Trans. S/N CST-390	CST-390DR	Fluor. S/N <u>88233</u>	ATAG 5 PTCG 5	CHOCK IN THE COURT OF STATE OF	
POS. INTENDED TRIP DEPTH		5	CONVERTED MONITOR	4 VALUES		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NOMBER	
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL. NUTR. OXY	02/WI/L
-						28		- T
2 Borran	2.6522	-,86 /	1.88.1	34.896	34.904	×34.91805	9777 64	13.7
£ 4	1500,5	\$\$t'-	-,755	34.890	34.900	Did no	xt fire	12.0
5							-	-
9 (000	1000.9	4,	+19'-	34.876	54.888		4775	j Ž
ر ا ا	4 6KZ	10.090	-0.050	74.891	74.98		877	9,1
								ξ -
01 S	498,7	1,334	1.332	34,940	34,949		bhh	2.5
12 400	400.7	2.324	2.331	34,945	35,004		450	2.6
13	300,8	2,925	1,925	26.029	35.038		/5/	9,5
П								1
16 200	1.00.1	3.341	3,343	35.034	35.048		(K3)	rt 160
18 150	149,8	3,578	3,578	35,039	34.048		453	8.8
19				- 1	0		HECH	ار ارز
% % %	(00.3	3.194	3,184	24,95	54,455		100	
25 25	20.16	2.409	3.391	34,752	34,759		455	0
	9)	7.7	05%.0	7 July 7.6	こ タセ・カと		777	J. &
24 BUTTELL	9 0	2000) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	34:1-7	_		961-	3

PG 530F

VESSEL:	<u> </u>	CRUISE:	PROJECT & LE	EG:		The second secon	STATION DESIGNATION:	NATION:	A A A A A A A A A A A A A A A A A A A	
2, 7 % (CONSC CONSC CONS	5 3	5, 063° 16,25° E E:003° 15,38° E	hate in-	TIME	a a a a a a a a a a a a a a a a a a a	E E E E E STATE A STATE	WE WE SEND (AMI)	BOTTOM	CTA NAMAIN	_
DEG		WIN	WO	++	++	S . (qw)	(kt)		+	.
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_		I	00.00 04.01	5	33	OVERSE STONE OF	an on Milliaming	SP(10: 7)		
)E	20:34			Cleaned air bleed valve	alve			
SEC COND SN 2568 POS. INTENDED TRIP DEPTH	89	Oxygen S/N 180578 3058 5	5583 Trans. S/N CST-390 CTD CONVERTED MONITOR VALUES	S/N CST-390DR DNITOR VALUES		Fluor. S/N 88233	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP	(°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR. OXY.	, ,
1						,				1 :
2 hottom	अआप	t 68'-	1.897	34	4.891	34.899			457	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `
4 500	1499.4	1261-	1771	134	838'	268.12		7	75 h	7.1
5 6 (60 <i>0</i>	1000.3	-,646	54%	34	1.873	34,882		3	4.59	10.7
\vdash			1		1 1	()
8 750	750,	602 -	-,20	34	200	34.893		7	097	× ,
10 583	1.025	1,343	11,346	34.	937	346.45			191	8,9
12 400	399.6	2,261	2,262	34	586	34.995		٦	291	So So
13 300	300.2	7.896	2.919	35	210.	35,021			463	- is
15 16 2.07	200 . 8	3.517	3.51(35.	. 646	35.0.55		3	464	9
18 [50	150.2	3.686	3,68	5 35	020	35.029		2	469	8'2
20 (00	0,001	3.654	3.65	4 35	910	35.025		3	395	6.0
22 50	0115	31538	3.53	34	34.997	35.005		7	14e7	9
23 24 SVI Pull	41.5	3.535	3.53	7 34.	1.997	35,004	735,02155	450 L	4 68	Š

PG 5 POF

		CRUISE		PROJECT & LEG:				STATION DESIGNATION:	GNATION:		
HY-01-	HY-01-0	~	- 1	ALTEX AUV Test Cruise	Cruise						
7851.98N S.		4 60 G	2 29,89 E 02 26.54 E	<u>.</u>	C (TMS) DAIT	a Ha yad	g = = = = = = = = = = = = = = = = = = =	WIND (amt)	яантаау 80 то	C viceiner	A FO
	DEG			Y MO YR	+-	4	V . (mb)	(kt)	1_	╁	AME/ID
511. 66 N OO2	00		28.91E0	1 NOV 0 1	7144				2464	14	
638 TIMES	TIMES		JD/TIME		DATA		REMARKS &	douth - bottle	not file	7	
	DATA (Z C	'	۵.	File Name C	C+d 051.dxt	WM FOW 2	31	- 1	et bottle	(e 2
2796 STARI	STARI	START DOWN	20:5				random spire.	6 -10 Salining	1550m		
2824 AT DEPTH	AT DE	PTH	71,44	7			* noticed increased frequency	ø	Spiles	in spiles occurring	o
2545 AT SUI	AT SU	AT SURFACE	22:34		·		Cleaned air bleed valve	A3	05 for -	_	00HICS
2568 Ox	ŏ	Oxygen S/N	1 130583 CTD CON	Trans. S/N CST-39G	V CST-390DR TOR VALUES		Fluor. S/N <u>88233</u>	SAMPLE BOTTLE DATA		U SAMPLE BOTTLE NUMBER	UMBER
PRES. (dbar)	,		PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL	SAL.	SEC. SAL.	SALINITY	SAL.	NUTR.	OXY.
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J475.		1	768'0	-0.892	34	34.891	34,899	※34579483	15/	કે 2%	7
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975,5			210)	219,-	340	528	34,883			471	
4.484			. 218	-,219	24	588.	34.985			れか	
1 bbh			(3)	. 630	34	906	93.915			473	
					i			:			
399,1			1.714	11714	374	341962	34,971		_	727	
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111111			2620	ń		>	23:65				
98,2			3.613	3.612	35,	013	35.034			Sch	
50.5			3.578	3.580	35.	10	35.018			440	1
1.8			3.447	3440	74	.981	34,990			C84	-

no pressure spikes

41 Knots ashirt, Ondownast

Blowing

REMARKS

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STA. NAME/ID

BOTTOM DEPTH

WIND SPD.

WIND DIRN.

WET BULB

DRY BULB

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SEA STATE

ABHTA3W TYPE CLOUD (amt)

PG SSOF

Knots

STATION DESIGNATION:

PROJECT & LEG: ALTEX AUV Test Cruise

11

5:010 43.20"

5: 78052,091 N 180 ug, 49' N

USCGC Healy

CRUISE: HY-01-03 30.06

Spillezt Went past 1000 a back to 1100 m ressor . Trying to determine speed @ which boxt was moving and has abickly bosette was failing Had us pinned against the hull. Big Will single study at 2450m due to wire single. on upirist bottle. Difficult to get to depth ? SAMPLE BOTTLE NUMBER SA oX≺. 2 7 28 45 23 Sep 39 shapped @ 145m to avoid huge ice break する M 0 485 283 492 NUTR. 489 49 h8h 58 £ 83 88h 486 48 5a SAL. SAMPLE BOTTLE DATA 34.86159 SALINITY Sul Fra 34,928 34.663 34,980 34,922 34902 35.023 88233 35,015 34.663 34.699 34.960 34,883 SEC. SAL 34,910 Fluor. S/N File Name C+4052, dat 34,970 34.920 34.654 34. 875 St. 892 34.917 34,735 35.015 34,901 35,005 24.653 SAL. 34.951 E. CST-390DR CTD CONVERTED MONITOR VALUES Trans. S/N 3.079 2.513 SEC. TEMP (°C) 2,479 - .02 B 1.960 1,024 -1583 1.85 434 છ. 34 1.438 ርካ MO 21:41 16:20 pr 12,44 1.024 2.479 PRI. TEMP. (°C) G 801 2,543 3,080 3,144 -. 583 3841 1, 434 1.96. 2,341 7.815 V Oxygen S/N START DOWN AT SURFACE AT DEPTH 4817 148.7 7 200 PRES. (dbar) 199,6 4(00)4 3 503 0 <u>_</u> 300. 子保 2490 1001 <u>ē</u> 2796 2824 2545 2568 POS. INTENDED TRIP DEPTH GW/Ada potar 1000 200 200 200 430 0 300 SEC COND SN SEC TEMP SN S 8 20 PRI COND SN PRI TEMP SN

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