VESSEL. Alpha Helix				<u>a</u> I	PROJECT & LEG HX209	& LEG				S	TATIOI	STATION DESIGNATION	NATIO	zm	
CON SC CAST					<i>S</i>	TIME		MESSURE W	TIAIS AS TIJIBIS		(3ms) QUO	РЕ EATHER M DEPT			
# LATITUI	LATITUDE G MIN	DEG MI	MIN MIN	DAY 1	MO YR	HR MIN		BULB E (°C) (mb)	IA .	(deg)	(s/E)	M·	╌┼╌	STA. NAME/ID	
005819.63N	9.63N	15/2		NUL YOWS	98	4640	•	•					108	S S	<u> </u>
СТО	•	TIMES)Qr	JD/TIME			DA	DATA LOCATION	NOL	•	<u>E</u>	REMARKS			
TYPE & SN SB911+		DATA ON	-			Tape/Diskette ID	kette ID		File Name/Heade.	leade.		8			
PRESS SN	50405 p5040	50405 p5040 START DOWN	OWN							81					
TEMP SN	11390	t1390 AT DEPTH	ς Ξ		 	C	68								
COND SN		AT SURFACE	ACE -					Ų.		~.	₩	MAX. DEPTH	# #		E
	4 1193 11391	XPAR	×	XFLUOR	ChIAM	Г	TRANSM	XTRANSMISSOMETER		Cleaned ear bleed valve	igr blee	d valve			
L ∓]	TO OT:	/ERTEC	MONITC	CTD CCNVERTED MONITOR VALUES	မ္တ	.01) POB	SAMPLE SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	:BOTT	LE NON	BER
	PRESSURE	URE	PGI, TEMP.	EMP.	SEC. TEMP	remp	SAL	SALINITY	SA	SALINITY	SAL.		NUTR! CHL.		HPLC Other
130	i i		9									32,	5		
2 <										i		328	~		
3	0.0										-10				
4											<u> </u>	_			
5				4				1			4		_	_	
9										į		_	_		
7				KS.											
8	,											-			
6								100			_	_		_	
10					Φ						4	_	_		
11	,											_			
12			60			-						_			

				ŀ			\$37						ľ		_
VESSEL Alpha Helix				ΔÏ	PROJECT & LEG HX209	& LEG				<u>s</u>	STATION DESIGNATION	OESIGN	NATION NOV NOV NOV NOV NOV NOV NOV NOV NOV N		
CON SC CAST						TIME		HESSONE WILL WILL WILL WILL WILL WILL WILL WIL	STATS AS TIJIBIS	W WIND D	(amt) (amt)	E BOTTO			
# DEG	LATITUDE DEG MIN	DEG	MIN I	DATE JO-	JO ON VR YR	(GM!) HRIMIN	ရှိ ရှိ	BULB T (°C) (mb)		(dea) (m/s)	3	ΞÊ	í	SIA. NAME/ID	ME/ID
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33. 1 3N	1.000	S.66M	104	-	0556							/0	QIA	T = 2
СТО		TIMES	/Or	JD/TIME				DATA LOCATION	NOI		REM	REMARKS			
TYPE & SN SB911+	SB911+	DATA ON	-		ſ	Tape/Di	Tape/Diskette ID	Z	File Name/Header	leader		Lean	~		
PRESS SN	50403 p5040	50405 p5040 START DOWN	OWN.							6	-	Luis			
TEMP SN	11390	t1390 AT DEPTH	 	i		10.4 26				8		tom	3		
COND SN	c501	AT SURFACE	ACE			Í	10		ļ		MAX	MAX. DEPTH =	=		Ε
TEMP SN	4 1233 11391	XPAR	<u>X</u> ,	FLUOR	ChlAM	×		TRANSMISSOMETER	Ш	leaned	Cleaned air bleed valve	vaive			
POS TRIP DEPTH	- +		[<u>6</u>	ÆRTED	MONITO	R VALUE	ဋ္ဌ		80 S E	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	ЗОТТЦ	NOM!	3ER
	PRESSURE	URE	PRI: TEMP.	IMP.	SEC. TEMP	EMP	SAL	SALINITY	S	SALINITY	SAL	NUTR	훔	HPLC	Other
-						ē									
2											1712				
3	540							11			-14				
4								i							
2							-								
9															
7								900-							
8	-														
6															
10	-					× ×				/					
11	,					1		_					_		
12		-													

	7	Gre				•	2		<u> </u>									
	WE/ID			٤		Other												
	STA. NAME/ID	*			NOME	HPLC Other					*						-	
NOTAN O		1 30			ОТТЕ	R												
ESIGN	WEATHER M M DE TO	RKS Leek		MAX. DEPTH =	SAMPLE BOTTLE NUMBER	NUTR.												
STATION DESIGNATION	CLOUD (amt)	REMARKS N/		MAX.	SAN	SAL.	1	V.										
STA	WIN D SP D. G	9		MAX. DEPT	L/E	. }_		IN						<u>1</u> 9			¥1	
	WIND DIRIN	CCATION File Name/Header			SAMPLE BOTTLE DATA	SALINITY							Ì					
	WISIBIEIT VISIBIEIT VISIBI	Tion																
	SULB TESSONE	DATA LOCATION		1		Δ												
		DATA te ID		VI TO AND		SALINITY									115			
		DA1	-				_	-										
& LEG	TIME (GMT)	Tape/I	2	Г	R VAL	EMP							Ļ					1
PROJECT & LEG HX209	H 8 8				ONITO	SEC. TEMP												
PROJE HX209	E DATE JD= DAY MO YR SWO Y JUN 9 8			5	CTD CONVERTED MONITOR VALUES				L						\dashv	12		
	DAY DAY	JD/TIME			ONVERTE	FRI. TEMP.												
	OUT N	Z X X O	E	₩		: :::	1,5	-		7:5		ee-	0.00		0			
	LONG	TIMES TIMES TIMES SOURCES PSO4CS PSO4CS START DOWN	t1390 AT DEPTH	AT SURFACE	CTD	Æ												
		040.5 D	390 A.		□	PRESSURE			1000					_			,	
	LATITUDE DEG MIN	SB9114 ၁၆၁ ၁၆၁	Ï	6501 4 11934	<u> </u>	<u> </u>												
VESSEL Alpha Helix	2 6	CTD TYPE & SN SB911+ $\frac{SO4}{PPESS}$ PRESS SN	S	NS S	TRIP		17	4	¥	IT	13	17	\$	5	S	S	S	S
VESSEL Alpha H	CON SC CAST	CTD TYPE & SN PRESS SN	TEMP SN	COND SN	SO		-	2	ო	4	5	9	7	8	6	10	11	12

3 3

				7 didust	F. Re						No map											
NATION A MA	BOTTO M DEPT H STA. NAME/ID	(m)		7		益	m = H	8	SAMPLE BOTTLE NUMBER	R, CHL. HPLC Other		7	7			2	7	\ \(\tau \)				
STATION DESIGNATION	WIN WIN CLOUD (amt) CLOUD (amt) TYPE TYPE	_	REMARKS	ē	24		MAX. DEPTH	Cle ned air bleed valve		TY SAL. NUTR.		334	336	335		334	233				(1)	_
	PHESSORE SEA STATE VISIBILITY O W	(mb)	DATA LOCATION	File Name/Header		9	in .		SANP_E BOTTLE DATA	Y SALINITY	1230		M 1	23	4:2	7)					4500 2120	
9	TIME DRY WET (GMT) BULB	HR MIN (°C) (°C)		Tape/Diskette ID		(a)		XTRANSMISSOMETER	ALUES	IP SALINITY												
PROJECT & LEG HX209	TI DATE JD= (G	TWOCHUN 98 V		Tar				OR CHIAM	C:TD CONVERTED MONITOR VALUES	P. SEC. TEMP					,			,				
	LONGITUDE	N G	7 1	DATA ON	ART DOVAN	DEPTH	AT SURFACE	X PAR X FLUOR	C:TD CONVER	E PRI. TEMP.		10 A-1	well () o			8405	1008					
	ATITUDE	DEG MIN DEG	TIMES	SB911+ DA1	50405 p5040	t1390 AT DEPTH	c501	1391 1391		PRESSURE			0	6	9	0		<u> </u>			•	
VESSEL Alpha Helix	CON SC CAST	DEC	CTD	TYPE & SN SB911+	PRESS SN	TEMP SN	COND SN	TEMP SN	POS TRIP DEPTH		-	2 36	3	4 18	5 18	9	7	8 5	ک 6	10	11	12

PROJECT & LEG PROJECT & LEG TIME DATE JOBY TIME DATE JOBY TOWN OF THE SEC. TEMP DATA LOCATION TAPE/DISK-tte ID TEMP SEC. TEMP SALINITY S	PROJECT & LEG HYZOG E DATE JD= DATA LOCATION FINANCE JC CO		(44)		(F) 150 (F)	Dock Part		٠.			Luch			****	ر (200	15				Ē:	ï	ži 1ii	
PROJECT & LEG HX209 TIME DAY WET WET WIND WIND D SPOND OF THE BULB E WIND	TIME JRY WET BEE WIND D SPECIAL	DESIGNATION	H BOTTO		X Z U		Cope	au pham		E	<u> </u>	MPLE BOTTLE NUMBI: R	CHL	7				340	339	.00				
PROJECT & LEG HX209 DATE JD= (GMT) BULB BUL DAY MO YR HR MIN ("C) ("C) WOST JUN 9 8 L W 3 L DTIME DATA L Tape/Disk:tte ID TEMP. SEC. TEMP SALINITY TEMP. SEC. TEMP SALINITY	TIME DATA LUN DA	STATION	YING Semily	D C CIRN. D. C.	F31 - 1 6-	ï		2		MAX						\	700						8 8	
PRG DATE JE NOB MC NOERTED M WO STIME	CATITUDE		.)RY WET	(GMT) BULB BULB	1436	DATALOC						OR VALUES							84	×				
	1ATITUDE LON (G MIN DEG) 131-4 M 1 DEG 131-4 M 1	PROJECT HX209		DATE JD=	4WOSTUN9	_		NWOC	=	-ACE	XFLUOR	TD CONVERTED MONITO	83				- 3	3	*					

1	Alpha Helix				HX209	HX209		0				1		SIX JO		
Ö	NO NO		<u> </u> 				NS		DHE_	'.'.'		(amt)	l '			
~ స్	SC						TIME)BY	E22I W	TS A Jiait S	WIND D SP	a∪o ∃q HTA	M DEPT	o F		
		N N	JUNGIT	SITUDE	шl`		(GMT)	<u>_</u>	<u></u>	10E		싊		ST	STA. NAME/ID	AEID
ŀ		NIM		NEW.	DAY	WO YB	HE MIN		(Jap		(deg) (m/s)		E	-	F	
	5832.7	<u>\</u>	2 2 2	M+ 5 C		9 8 N O C	1529	-		Ř.			2	76	<u> </u>	
	CID		TIMES	ğ	JD/TIME	_		DA.	DATA LOCATION	io.		REMARKS	RKS			
Ξ	TYPE & SN SB911+	18911+	DA'TA ON	7		<u>, , , , , , , , , , , , , , , , , , , </u>	Tape/Diskette ID	k-tte ID		Fire Name, Header	ader					
8	PRESS SN	SCACO START DOW	STSRE	. NWO	:	 				w ±					0 2	
핕	TEMP SN	11390	H390 AT DEPTH	, ,					ĵ.	ğ						
8		C50:1	VI SURF	ACE		25		9		60	Ħ	MAX.	MAX. DEPTH :	*- 		E
鱼		4 1133 11391	N. J.	X	XFLUOR	ChlAM		FRANSM	XTRANSMISSOMETER	[5	Cleaned air bleed valve	bleed	alve			
SOG	S reip			CTD CON	/ERTED	MONITO	CONVERTED MONITOR VALUES	S		\ X :	AMPLE	SA	SAMPLE BOTTLE NUMBER	TTLE	NUMB	æ
	H H H T T		!					=		11163	E'U ILE DAIA	P			Ī	ļ
	IA.	PRESSURI:	JRI:	PRI, TEMP	MP.	SEC. TEMP	EMP	SAL	SALINITY	, SAL	SALINITY	SAL.	NUTR	GH.	HPLG	Other
-	39									1			346	7		
2	30		. A				2		1)				345		_	
3	20						1	g 	ų.	Ť			344	_		
14	0	i i						= 1					7			
2	0.		50							0			343	0		
9	0					EZ:			No. 18		Pers		342	7		
7						St. 1.38										8 6
8	15	63	2559			4				12 5 13 13						ž.
9		- 67			_	3	e e	=		2 }			_			
10	1						ver,	a 5	Ţ	I i						ļ
11	w :	=	į			(3- 4-1-7	_			. !			+		\dashv	
12	•1				<u> </u>						#		0			

37.5

Alcho Holix	Aloha Helix			Î	HX209	HX209					0	CNOXIN	١.	
N OS	S. S					94		-3HOS		≡ X	W N (smt) O(OTTO		1
CAST #	LATITUDE	LONG	LONGITUDE	DATE	JD=	TIME (GMT)	DRY BULB	WET #	S:S:Y	D SP D. (adyT NEAT	ОЕРТ Н	STA. NÄME/ID	ME/ID
	DEG MIN	DEG	ZIZ	DAY	MO YR	HR MIN	(ĵ	(c) (mp	(deg)	. (s/ш)		Œ		
106	065928-06N162	1691	1.35V	WOS SUN	0 N 9 8	16:16	•	•				146	1-2	•
CID	0	TIMES		JD/TIME			DAT	DATA LOCATION	NOI		REMARKS	S		
TYPE &	TYPE & SA SB911+	CATA ON	_			Tape/Diskette ID	kette ID	File	File Name/Header	<u></u>	:	• • •		
PRES3 SN	15	P5040 START DOWN	, NWO						£2				8	
TEMP SN		tt 390 AT DEPTH	I											۷
NS. JNOO		AT SURFACE	ACE	18 18 11)	2		(4)		1	2	MAX. DEPTH	PTH =		E
TEMP SN	4	x PAR	这	LUOR	CHA		FRANSMI	XTRANSMISSOMETER	R Cleaned air bleed valve	d air bi	eed val			
POS	TR!P CEPTH		CTD CONVERTED MONITOR VALUES	ÆRTED	MONITO	3 VALUE	9		SAMPLE BOTTLE DATA	ATA	SAMP	SAMPLE BOTTLE NUMBI: R	E NUM	E
83	PRESSURE	SURE	PRI. TEMP.	MP.	SEC. TEMP	EMP	SALINITY	4ITY	SALINITY		SAL. NU	NUTR CHL.	HPLO	3 Eperated
-	43	Σ									5 901	1 158	A	
S	02	8				121					is	05.		
├─	Soc							54	83		3	349		65
4	01						,	,			3	18	11	
ည	0	13									18	347		
9	9			VA.	187		īà.		5			ı		
7	3333								34 2		\dashv	_		
80							ļ		ð		_	_		
6									5		_	_		Ţ
10								T: (0	ń.	1	\dashv			
11	=				*1				Œ		4			٦
				_							-	-		

STATION DESIGNATION	MIND D SPORME M DEPT WIND D SPORME M DEPT (mb) (deg) (m/s) · · · (m)	DATA LOCATION ID File Name/Header	METER Cleaned air bleed valve	SAMPLE SAMPLE BOTTLE NUMBER SOTTLE DATA	SALINITY SAL. N	350	352					
PROJECT & LEG HX209	TIME DRY WET DATE JD= GMT BULB BULB MONTH GMT CO CO CO CO CO CO CO C	DATA LO Tape/Diskette ID	FLUOR CHAM X TRANSMISSOMETER	CONVERTED MONITOR VALUES	EMP. SEC. TEMP SALINITY						a	iii
VESSEL Aloha Helix	ATITUDE LONGITUMIN DIEG MI	71/1ES 7/1A ON 9/C3 7/10 START DOM	COND SN 4 1:33 TT SURFACE	<u> </u>	PRESSIINE PRI. TEMP	2 . 2	3 70	2	7	8	10	11 .

					<	3								*										
		ME/ID			6	Ĭ			٤		ER ER	Other												12.7
	Ш	STA. NAME/ID				3	8	, , 85,			SAMPLE BOTTLE NUMBER	HPLC Other	90							át.			\exists	
	70) ·		0					H			동				7		• ~~	-					Λ
	NC X	MEATHER BOTTO H	(L)	a	RKS			•	MAX. DEPTH	alve	APLE B	NUTR		358	30	356								7.0
	CACK/2	CLOUD (amt)	*		REMARKS			;	MAX.	bleed v	SAN	SAL	I											
Į.	5	WIN D SP	(deg) (m/s)	4		<u>e</u>	1	ı		Cleaned air bleed valve	LE DATA	<u></u>		[84]									2	1
		MIND DIRN.	bep)			э/Неас		1		Clear	SAMPLE BOTTLE DATA	SALINITY								į				
		SEA STATE YILIBISIV	(qw)		ATION	File Name/Header	1	000		TER							_	20			TEA	-	_	=
		WET CO) (၃)	•	DATA LOCATION	ij			Ш	XTRANSMISSOMETER	0)	SALINITY							١					
-	JIS9 3874	DRY BULB E	့		DAT	tte ID				ANSM		SALI												
	5			√ 8		Tape/Diskette ID	8	333		Ę X	N.UES	-	-				2				-		$\frac{1}{1}$	_
- L	A LE	TIME (SIMT)	YR HIR MIN	400		Tap				ChIAM	TOR 5/	SEC. TEN/P	; <i>*</i>	194	- 10	,	201				ĥ	-13		
2	PROJECT & LEG	JD=	ΛOM	о И		1	 	ı		Ċ	MOF	SEC												
19	LI	DATE JD=	DAY	WOSJUN98	JD/TIME					FLUOR	CTD CONVERTED MOPILTOR 5/ALUES	TEMP.	5											
		UDE	ZIE	.34W	Qr		 		<u>Щ</u>	X	NO NO NO NO NO NO NO NO NO NO NO NO NO N	PRI. TE									=			
		LONGITUDE	Ιſ	e.	မ္သ	DATA ON	T DO	EPTH	AT SURFACE	XPAR	СТС		-						4		_		_	
-		7	DEG	CE) INS	TIMES	DAT,	SO405 p5040 START DOWN	11350 AT DEPTH			I	PRESSURE					=							
		LATITUDE	Z	27.8		3911+	25. 25.	1139	501	क् । । अध्य t1391		Bag Bag								4			,	
	i. Jelix	LATI	DEG MIN	281	٥	TYPE & SN SB911+	SN	ž			TRIP DEPTH		33	80	01	0	10							
	VESSEL Alpha Helix	CON SC CAST		1880	CTD	TYPE &	PRESS SN	TEMP SN	COND SN	TEMP SN	Ø	e j	7	\a		4	5	9	7	8	6	10	=	12
ت		25	1.5	11		121	= -	• ***	•	2.2		1)	1	J	a	Q	لنب				J		لــــ	لـــ

-	STA. NAME/ID	= 20 =	9				٤	,	E NUMBER	HPLO Other	Partie	M				To the second	-					
STATION DESIGNATION	TTO DEPT H	(E)	IRKS				MAX. DEPTH =	/atve	SAMPLE BOTTLE NUMBER	NOTR CHL	362	12	360	359 /		_	_ - 		Ì			_
DIOIT	D WIN (smit) TYPE TYPE WEATHER	ا ما	REMARKS				MAX.	bleed		SAL	l											
ST/	SEA STATE VISIBILITY VISIBILITY OIRN. DIRN. DOIRN.	(deg)	NOI	File Name/Header				ER Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY							b	ļ		<i>\$6</i>	100	
	DRY WET BULB E	(°C) (°C) (mb)	DATA LOCATION					XTRANSMISSOMETER	100 E	SALINITY								7				10
PROJECT & LEG HX209		HR MIN		Tup.∌/Diskette ID				ChlAM XTR	CONVERTED MONITOF VALUES	SEC. TEMP		AA GE	188 1341		41=27	eg .			12000			
PROJEC HX209	a JO±	AY MO YR			1	١			INOM CI	SEC									<u>11</u>			
	ITUDE DATE	MIN D	JD/TIME	-	NWO	=	ACE	XFLUOR	le	PRI TEMP						1						
	LONGILL	DEG PB	TIMES	DATAON	p5040 START DOWN	11390 AT DEPTH	AT SURFACI	XPAR		BESSIBE												
	LATITUDE	NIM S		SB911+	p504	11390	501	4 1195 11391		PBES								6			'	
VESSEL Alpha Helix	CON SC CAST	COSP IN	cTD	TYPE & SN SB911+	PRESS SN	TEMP SN	COND SN	TEMP SN	OS TRIP DEPTH		31	8	ol :	0	5	3	2	3	•	10	1	2
<u>> <</u>		BC -1) ()	<u>F</u>	۵.							2		Q		9	2 2	 ·	6	Ē	1	12

				_)]]						•	9		
Alpha Helix			1	Ξ	HX209			S.				メング	X		
						Ģ.		<u> </u>	Y		tmat)				
	30					TINAT) ac	:220 نا خ	ATO, TIJIB	N A	OUO (E ATHE	ВОТТО			
Υ <u>·</u>	LATITUDE	LONGITUD	ITUDE	DATE JD=	<u>ي</u>	(GMT)		-	NISI	<u>.</u>	쏬	H		STA. NAME/ID	Ð
DEG MIN	MIN	DEG	MIN	DAY N	MO YR		(၃)	(°C) (mb)		(m/s)	•	(m)	3 2		
2430	N84.2082	2001	4.4	V055	8 6 N U L 2 O W 6	19 19	•	-				35		-	
CTD		TIMES	/Qr	JD/TIME		100	DA	DATA LOCATION	ION		REMARKS	ЗKS			
TYPE & SN SB911+		DATA ON	-			Tape/Diskette ID	kette ID	File	File Name/Header	Jer					
PRESS SN	50403 p5040	50405 p5040 START DOWN	OWN		<u> </u>			i						11	<
TEMP SN	11390	t1390 ÁT DEPTH	_ 				:	2.	38		đ.			12	3
COND SN	c501	AT SURFACE	ACE				*:	l		<u> </u>	MAX. DEPTH	EPTH =	1111	٤	
TEMP SN	4 1.93 11391	X PAR	Ż	LUOR	BA	IX I ≤	TRANSM	XTRANSMISSOMETER	Ш	Cleaned air bleed valve	bleed va	alve			
POS TRIP DEPTH]]	CTD CONVERTED MONITCH VALUES	VERTED	NONITC	A VALUE	S	ē	SAMPLE BOTTLE DATA	LE DATA	SAN	SAMPLE BOTTLE NUMBER	TILEN	IUMBE	<u>س</u>
45	PRESSURE	URE	PRI. TEMP	EMP.	SEC. TEMP	EMP	SAL	SALINITY	SALINITY		l :	NUTR, C	CH.	HPLGO	Other
33						- 52	:				00	366	<u></u>		
8						10.						306			
10	7											304	7		
0												363	\		
													_	\dashv	
												1	3:		
												_			100
	13					I					7	\dashv	18	_	Ţ
						Į		1000			1	_	-	\dashv	T
			1		120			4				\dashv		-	
	,				Ħ	ď		0		E.				600	Τ

GNATION)C X	TO EPT STA. NAME/ID	- F					E		SAMPILE BOTTLE NUMBER	R CFL HPLC Other	2				7	â	-					
STATION DESIGNATION	· CLOUD (amt) • TYPE • WEATHER ▼ ⊠ ⊠		REMARKS		80		MAX. DEPTH =	Cleaned air bleed valve	SAMP	SAL. NUTR		370	369	368	367							
STA	MIND OIRN.	(1175)	NO	File Name/Header	=11	Į.		Ш	SAMPLE BOTTLE DATA	SALINITY								<i>/</i> (=)			£0	
	WET BULB	(C) (C)	DATA LOCATION			iii		XTRANSMISSOMETER		SALINITY									*			
PROJECT & LEG HX209	TIME (GMT)	N 9 8 9 0 1 8	Sec.	T:tpe/Diskette ID	!			ChlAM XTF	CONVERTED MONITCR VALUES	SEC. TEMP											īy P	F.
PR	JDE DATE	8-9-0WCSJUN9	JD/TIME		OWN	Ŧ	ACE	XFLUOR	le	PRI. TEMP.											П	
	DE LONG	N 1624	TIMES	1911+ DATA ON	50405 p5040 START DOWN	tt390 AT DEPTH	c501 AT SURFAC	4 11.303 11391 XPAR		PRESSURE			34					- 6			ï	
VESSEL Alpha Helix	CON SC CAST # LATI	DEG MIN	CTD	TYPE & SN SB911+	PRESS SN	TEMP SN	COND SN		_ ∓		12 (1)	2 31	3 30	01 4	. 5	9	2	8	6	10	11	ç

STATION DESIGNATION	(SIME) OUT HER BOTTO TYPE M DEPT WH STA. NAME/ID	(E)	REMARKS	Duck Pand			MAX. DEPTH = m	bleed valve	SAMPLE BCTLE NUMBER	SAL. NUTR, CH HPLC Other	15 379 V	37.3	372	37/			7				2	
STA	SEA STATE SEA STATE VIND D SP DIRN. D.	(s/m) (bep) (dep)	NO	File Name/Header		49		ER Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY											JO,	
7	DRY WET SO	<u>ي</u>	DATA LOCATION	rape/Diskette ID File N				XTRANSMISSOMETER	ES	SALINITY		:										
PROJECT & LEG HX209	TIME (GMT)	WO VI		rape/D			1	Childra	CONVERTED MONITOR VALUES	SEC. TEMP					ľ					ŝ	Œ.	
	LONGITUDE DATE	MIN DV	JD/TIM	NO	IT DOWN	ЕРТН	AT SURFACE	X PAR X FLUOR	12	PRI. TEMP.					11							
	ATITUDE	2	F	SB911+ DATA ON	50405 p5040 START DOWN	ti390 AT DEPTH		4 1.93 11391		PRESSURE			57	2		0				is.	**	
VESSEL Alpha Helix	CON SC CAST	B 5	CTD	TYPE & SN SB911+	PRESS SN	TEMP SN	COND SN	TEMP SN	POS TRIP DEPTH	E 50	13.	2 30	3 30	3 4 30	C 2	S 6	6 7 0	8	0 6	9 10 0	0 11 01	12

	**		>n Sidu	Courte	W00					che					•						•	
	STA. NAME/ID	<u> </u>	·				٤		MBER	NUTR CHL. HPLO Other	_									_	-	
NA.	STA. N								SAMPLE BOTTLE NUMBER	IE HE IE	_			ŧI				_	-	_		\dashv
GNATIC	MEATHER H	<u>\$</u>	1/10 S				TH ==	•	E BOT	. 전	95	- 	ا ٦	i			-	-	- 	-		
N DESI	MEATHER ▼ ▼		REMARKS			į	MAX. CEPTH ==	ed valv	SAMPL	SAL. NU		_	٠٠=		±301		r:		_			
STATION DESIGNATION	CLOUD (amt)	* (s/m	- 2		ē		W/	air ble	T.											_		
	WIND [(s/w) (deb)		File Name/Header	2			Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY											*<	
	SEA STATE VISIBILIT	<u>а</u>	NO NO	Name/			1		BOT	Š												
	WET BULB THE SOURE	(°C)	DATA LOCATION	File	9			SOMET	}	<u></u>												
	DRY W	<u>မ</u> (၃)	DATA	te ID				XTRANSMISSOMETER		SALINITY												
		_	9	Tape/Diskette ID		i		X TR/	LUES			\dashv										
r & LEG	TIME (GMT)	HRMIN	(6) (8)	Таре				ChIAM	CR VA	SEC. TEMP										10	É	
PROJECT & LEG HX209				ı	í	ı	1	రే	WON	SEC										65		
로프	DATE JD=	DAY	OWOST JD/TIME					XFLUOR	ERTED	MP	ΣŒ				<u> </u>							
	UDE	N N	S OF	ļ	₹ ¥		뽔	I X	CTD CONVERTED MON TOR VALUES	PRI. TEMP												
	LONGITUDE	∑ \	CTD TIMES JOTIME	DATA ON	P5040 START DOWN	ЭЕРТН	AT SURFACE	XPAR	15					<u> </u>								H
		DEG	TIMES	DAT	40STA	tiggo AT DEPTH			4	PRESSURE												
	LATITUDE	NIW	<u>2</u>	B911+	50 b20	1138	c501	4 1133 t1391		PRE			i.								,	
E. Helix	, Y	DEG	200 CE 012	TYPE & SN SB911+	SSN	SN			TRIP DEPTH		S	15	0	R	Ø					-		
VESSEL Aloha Helix	CON SC CAST		<u> </u>	TYPE	PRESS SN	TEMP SN	COND SN	TEMP SN	o So		_	2 2	3	2	2	9		80	6	10	=	12

CAST	TIME (GMT)		_	me)
1 SB911+ DATA C 1 SB911+ DATA C 5 C 4 C 5 T DEP 1 1350 AT DEP 1 1391 XPA 1 1391 XPA 1 1391 XPA	3	DRY WET BE E	VISIBILI VISIBILI VIND D'SR	WIND HEIVT DSPONE M DEIVT D. CLEW H STA. NAME/ID
SS SN P5040 START P5040 START P5040 START P5040 START P5040 START P50 AT DEP P5040 START P50 AT DEP P5040 START P50 AT DEP P5040 START P5040 SS SN P5040 START P50	-		(deg)	1.5
SS SN 58911+ DATA C 50405 START 5050 AT DEP SN 11350 AT DEP DEPTH	30N982378	•		43040X6
SS SN P50405 START SS SN P50405 START SS SN t1350 AT DEP D SN t1391 NPA TRIP DEPTH PRESSURE	•	DATA LOCATION	No	REMARKS
SS SN P5040 START SN t1350 AT DEP D SN t1391 NPA TRIP DEPTH PRESSURE	Tape/Dis	Tape/Diskette ID File Na	File Name/Header	19 (10)
SN t1350 AT DEP D SN c501 AT SUR TRIP DEPTH PRESSURE				
D SN		78		
DEPTH PRESSURE				MAX. DEPTH = m
DEPTH PRESSURE 10 10	ChiAM	XTRANSMISSOMETER	R Cleaned air bleed valve	bleed valve
PRESSURE	CTD CONVERTED MON:TOR VALUES	S	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
	SEC. TEMP	SALINITY	SALINITY	SAL. NUTR CHL HPLC Other
300				321
800				336
0/				33
				376
3				7350
- 0				
	ω.			
1			Đ	

<u></u>	STA. NAME/ID	<u> </u>		. Т	-	· .	٤		/BER	DOC HPLC Other		-										
	STA. N	CHCK							E NUA	HPL	200			11								
C x 4			•	į		- 1	# T	101	вотт	CHL.	7	Kengi		1								
STATION DESIGNATION	E BOITO M DEPT		REMARKS				MAX. DEPTH	vaive	SAMPLE BOTTLE NUMBER	NUTR.	383	382	381	380				_				
NOIT	CLOUD (amt)		REM/			_	MAX.	pleed	VS	SAL	5=											
STA	WIN D SP	(m/s)		ē	1			Cleaned air bleed valve	LE DATA	TΥ											X)	!-
	WIND DIRN.	(deg)		File Name/Header				Clean	SAMPLE BOTTLE DATA	SALINITY												
	SEA STATE YTIJIBISIV	(qm)	TION	Name)0	LEB) W	 												
	WET SOFE	(°C)	DATA LOCATION	File				SOME	že.	<u></u>										i		
			DATA	Q				XTRANSMISSOMETER	·	SALINITY						,					_	. !
	DRY BULB	5 / 5		iskette	4			TRA	ES													
LEG	TIME (GMT)	HR MIN		Tape/Diskette ID					CTD CONVERTED MON:TOR VALUES	IMP		5		`					7			
PROJECT & LEG HX209		YR 98						ChIAM	N.TO	SEC. TEMP									,			
PROJE HX209	E JD:	MO NU NU NU		1	1				ED MC	- "	V									(1)		
	DATE	OW OF UN	JD/TIME					XFLUOR	IVERT	EMP.												
	rude	₹ %		1	ا چ	4	 	X	NO DO DO	PRI. TEMP										-		
	LONGIT	5	S	DATA ON	P5040 START DOWN	t1390 AT DEPTH	AT SURFACE	XPAR	CI	40.					-				_			
	7	DEG N G 2	TIMES	DAT	OSTA	ATD				PRESSURE		-			11							
	Jan.	1		11+	0.40 15040	11390	501	4 1.333 t1391	!	PRES								0			1	
ž	LATITUDE	DEG MIN	:	TYPE & SN SB911+	z				<u>a</u> ∓]	7		0	~				T.				
VESSEL Alpha Helix	CON SC CAST	10 S	CTD	PE & S	PRESS SN	TEMP SN	COND SN	TEMP SN	POS TRIP DEPTH		29	8	01	C								_
<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				<u>R</u>	<u> </u>	8	<u> </u>	ő		Co	~	3	1 4	5	9	_	80	6	10	11	12

STATION DESIGNATION STATION DESIGNATION DESIGNATION STATION DESIGNATION DESI		AE/ID				V	٤		SER.	Other												
PROJECT & LEG	zĸ	STA. NAM							LE NUME	HPLO												
PROJECT & LEG	GNATIO	U	ĺ ω				7H =		E EOTT		82	25	و	82	5	_	_			_	-	
ATITUDE LONGITUDE DATE JO TIME DRY WET M CONTINUE DATE JO TIME DRY WET M CONTINUE DATE JO TIME DATA LOCATION TIMES JOYTIME DATA ON TIMES JOYTIME DATA ON TAPENDAM TAPENDA	ON DESI	+ MEATHER	EMARK				IAX. DEF	eed valv	SAMPL		38	38	38	M	38	-	-		\dashv	\dashv	\dashv	
ATTUDE LONGITUDE DATE UD= TIME DRY WET DESTRUMENT DESTRUMENT DATA NOT TIME DATA LOCATION SB911+ DATA ON TIMES JOTIME TARON TIMES JOTIME TARON TAPENDISKETE ID FILE Name \$50.403 AT SURFACE \$1.330 AT DEPTH CS01 AT SURFACE \$1.330 AT DEPTH CS01 AT SURFACE \$1.330 AT DEPTH CTD CONVERTED MONITOR VALUES BOTH PRESSURE PRI. TEMP. SEC. TEMP SALINITY SEC. TEMP TIMES JOTIME SEC. TEMP TIME DATA ON TARON TAPENDISKETE ID FILE NAME TAPENDISKET ID FILE NAME TAPEN	STATIC	D SP O O O O O O O O O O O O O O O O O O	<u> </u>	- -			<u>~</u>	ed air bi	LE DATA													
PROJECT & LEG				e/Head				Clean	SAMPI	SALINI					1							
PROJECT & LEG		PHESSURE	CATION	ile Na⊓		101 ₈₀ 201	=	METER								_						•
ATITUDE LONGITUDE DATE JD= TIME DRY MIN DEG MIN DAY MO YR HR MIN (°C) LONGITUDE DATE JD= (GMT) BULL MIN DEG MIN DAY MO YR HR MIN (°C) LONGITUDE DATE JD= (GMT) BULL TIMES JD/TIME SB911+ DATA ON (1390 AT DEPTH C501 AT SURFACE 4 1.3.3 TIMES JD/TIME TAPE/DOWN TAPE/DO			DATA LC		1			SMISSO	-00	ALINITY												
ATITUDE LONGITUDE DATE JD= (GMT N DAY MO VR HR M DATE JD= (GMT DATE JD=				Diskette		=	ō.	XTRAN	l ES	s												- 12
ATITUDE LONGITU AMIN DEG MII A 66.3 J N 10.3 0 3. TIMES SB911+ DATA ON 50.403 AT DEPTH (1390 AT DEPTH (1391 AT SURFACI A 13.3.3 H1391 APAR CTD TIMES CFD TIMES TIMES CTD TIMES TIMES CTD TIMES TIMES TIMES CTD TIMES TIMES TIMES TIMES TIMES TIMES TIMES CTD	. & LEG			Tape/L					OR VALL	TEMP												
ATITUDE LONGITU AMIN DEG MII A 66.3 J N 10.3 0 3. TIMES SB911+ DATA ON 50.405 F1390 AT DEPTH (1390 AT DEPTH (1391 AT SURFACI A 11391 APAR CTD TIMES CTD TIMES TIMES TIMES TIMES TIMES CTD TIMES	ROJECT X209	MA ON U		1	I			당	MONIT	SEC.		ŧΠ	3 55	=		l:					П	
ATITUDE LONGITU AMIN DEG MII A 66.3 J N 10.3 0 3- TIMES SB911+ DATA ON 50.405 START DOW 11.390 AT DEPTH 11.391 AT SURFACI 4 11.391 APAR CTD TIMES CFD TIMES TIMES CTD TIMES TIMES TIMES CTD TIMES TIMES TIMES CTD TIMES	O. II	DATE DAY	/TIME					FLUCR	IVERTEI	EMP.	1											
F				-	OWN O	 		Γ	le l	PRI. T												
F		LONG DEG	rimes	DATA ON	START D	AT DEPT	AT SURF	XPAR	° 	URE									0			
F		<u>Z</u>		1+	50403 50403	11390				PRESSI			100					S.			,	
Appra + Ress	L lefix	DEG MI	٥	SN SB9	P	ı Z				<u> </u>	<u> </u>	0	20	0	0		- 57					
	VESSE Alpha H	CAST #	៦	TYPE &	PRESS	TEMP S	CONDS	TEMP S	POS T		1	_	က	4		9	7	8	6	10	111	12

	55 4								•							,						
	header says 55	-					٤		3ER	HPLC Other			•				_					
7	headler s.	CMAII		4				4	E NUME	_	1					<u>)</u>		. ?				
NATION A 11	9 =	(a) (5) 7 C		.			í.ts=	4	БОТТ	R CHL.	7	~	2	<u> </u>	6	2				_	_	<u>.</u>
STATION DESIGNATION	HEATHER WEATHER		REMARKS	j		.	MAX. DEPTH =	Cleaned air bleed valve	SAMPLE BOTTLE NUMBER	SAL. NUTR	394	393	345	39,	390	389			\dashv	_	\dashv	-
STATIO	D SP (amt)	(m/s)	RE				MA	d air ble										-	_			
	WIND DIRN.	(deg)		/Heade				Cleane	SAMPLE BOTTLE DATA	SALINITY						ļ						
	PHESSOHE SEA STATE VISIBILIT	(qm)	ATION	File Name/Header	• .	,		ETER	8						1							
į	1	(Ç)	DATA LOCATION		l	·		MISSOM		SALINITY			ļ								•	
ļ	ш ш	(Ĉ) -	70	Tape/Diskette ID				XTRANSMISSOMETER	္ကြ	S.				,					:			
\$ LEG	TIME (GMT)	HR MIN		Tape/Di				×	R VAĽÚ	EMP												
PROJECT & LEG HX209	2	γR 9	,	1	1		.	ChlAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP							,					
문 포	DATE JD=	DAY O	JD/TIME					XFLUOR	ERTED	d W												
	TUBE	MIN DAY MO	Jac	ļ	N N N		CE	X	NOO 0.	PRI. TEM				:							-	
] [DEG 1		DATA ON	FART DC	г рертн	AT SURFACE	XPAR	 	#									*			
		Z 2	F	<u>```</u> 	50405 p5040 START DOWN	1:390 AT DEPTH		1391	Į	PRESSURE		:	-					î			ı	
ي. ا	िस्	DEG MIN C		TYPE & SN SB911+			•	₩			3.	2										
VESSEL Alpha Helix	CON SC CAST	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CTD	7PE&S	PRESS SN	TEMP SN	COND SN	TEMP SN	S TRIP DEPTH		4	04 1	30	20		\cup	,		L)		Ļ
<u> ≥ ₹</u>	0 3 6		<u> </u>	<u> </u>	<u>ā</u>	<u> </u>	<u> </u>	<u> </u>	SO		<i>∑</i>	2	3	ر م	<u>5</u>	• O €		00	6	10	11	12

X	HX209 HX209 LONGITUDE DATE JD=	HX209 TIME E JU= (GMT)	DRY WET SO	VISIBILITY VISIBILITY DIRN. O. WIN O. SP	STATION DESIGNATION CNA9 EN 19 EN
Ω - Z	Ĭ	× 8 8	(2) (2)) (Gep)	(E)
71 2		1	DATA LOCATION	NO	
4 5	SO405 SO405	Tape/Di	Tape/Diskette ID File N	File Name/Header	
:	(1396 AT DEPTH	1			
	AT SURFACE	S. Be			MAX. DEPTH = m
$\ \mathbf{x} \ $	X PAR X FLUOR	Chiam	XTRANSMISSOMETER		bleed valve
	CTD CONVERTE	CTD CONVERTED MIONITOR VALUES	ES	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL NUTR CHL HPLC Other
	1				399/
			•		358 0
1				,	397
					396
		36			295 /
l	8				
1					
		9			

				<u>-</u>	PROJECT & LEG	א רנים						7	_		
Alpha Helix				Î	HX209		-			╛	ŀ	+ #QJ +	4 +		
CON SC CAST						TIME				WIN D SP	PE RATHER	BOTTC M DEP			
# LAT	MIN	LONG	TUDE N	шI ~	<u> </u>	HE GMT)			ΙΛ	(m/s)	Ш	133	ST	Y N	
3	100 00	633		200		1550						1	U	7 47	
		TIMES	Ğ.	TIME			DA	ra Locat	NO		REMAR	3KS	-		
PE & SN SI	.B911+	DATA ON	_		48	Tape/Dis	kette ID		ame/Head	-e			ı		
PRESS SN	50405 p5040	STARTD	OWN					Ä				54U 83			
TEMP'SN	1390	AT DEPT	=				c	٨							
	_	AT SURF	ACE		3						MAX. D	Ejori H =	n		٤
	4 1133 11391	X PAR		LUOR	망		TRANSM	ISSOMETE		ed air b	leed va	ar.			
POS TRIP DEPTH		S	TD CON	VERTED	MONITO	R VALUE	Ω	+ E	SAMPI BOTTLE [ATA	SAM	PLE BC	эттс	NOMB	ËB
	PRESS	URE	PRI. TE	EMP.	SEC. T	EMP	SAL	INITY	SALINI			UJTRI (-IPLC	Other
45										N		104			
30											3	103			
20	3						:					205			
01												401			
0				-								400	7		
					*	W.1	į.	9 9							
						E'									
	0.				, of						121	1			
		0:						E.				1	7		
10					á										
-	1											1	1		
12									:						
	CTD	CTD	THESSURE LATITUDE LON DEG MIN DEG MIN DEG MIN DEG MIN DEG MIN DEG MIN TIMES E & SN SB911+ DATA C SS SN \$5040 START PSN \$1390 AT DEF TRIP DEPTH PSN \$1391 X PA TRIP OO OO OO OO OO OO OO OO OO	THUDE LON DEG MIN DEG LON DEG MIN DEG MIN DEG START TIMES E & SN SB911+ DATA C SS SN P5040 START PSN (1390 AT DEF DEPTH L391 X PA TRIP DEPTH C C C C C C C C C C C C C C C C C C C	THUDE LON DEG MIN DEG LON DEG MIN DEG MIN DEG START TIMES E & SN SB911+ DATA C SS SN P5040 START PSN (1390 AT DEF DEPTH LA39 AT DEF DEPTH DEPTH L391 X PA COLUMN A (1391 X PA COLUMN A (1	TATITUDE	TIME LATITUDE LONGITUDE DEG MIN TABLES CONVERTED MON CTD	TIME DATE DES DATE DA	TIME DRY WE	TIME DAY WET BE STATE OF TIME DAY WET BE SECTEMP SECTE	TIME DRY WET DRY DRY	Table Constitute Constitu	Table Constitute Constitu	CTTUDE	CTTTUDE

STATION DESIGNATION	• MEATHER • WEATHER • WEATHER • WEATHER	REMARKS	*		MAX. DEPTH = m	leed valve	SAMPLE BOTTLE NUMBER	SAL. MUTR, CHL, HPLG Other	10 89 Poel	, 90%	20%	466	7 50%						
STAT	MIND D SP	NOI	File Name/Header			R Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY				e _							89
	DRY WET SO ("C) ("C) ("C) ("C) ("D)	DATA LOCATION		le:		XTRANSMISSOMETER	S	SALINITY											
PROJECT & LEG HX209	TIME JD= GMT) MO YR HR MIN	WWC/G J UN 9 8/ O D J	Tape/Diskette ID	<u> </u>		ChlAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP			×							72	
a I	l §l≝[30.418WOLG J JD/TIME	NOO	TH	FACE	R XFLUOR	CTD CONVERTED	PRI. TEMP.			- S								
	N. D.	7 N 1 63	B911+ DATA ON SOSCS	t1390 AT DEPTH	c501 AT SURFACE	4 11391 X PAR		PRESSURE					V.			ė.			,
VESSEL Alpha Helix	CON SC CAST # LAT	1121年7月313. CTD	TYPE & SN SB911+	TEMP SN	2	TEMP SN	ΔŦ		1 43	2 30	3 20	4 /0	5 0	9	7	8	6	10	+

46

ration of the second second

Alpha Helix				<u>: </u>	FRUSECT & LEG HX209	י רבפ				S	STATION DESIGNATION	DESIGN	ATION V		
: •	20		25			ū.		- PHOS	31A1 - 711	≥	S S(amt)	83H	Ē		_
	į	-	į		, Rd:	TIME			IGISI		YPE LOUI	IVA		* * * * * * * * * * * * * * * * * * *	į
	DEG MIN	DEG M	MIN	DAY MO	<u>"</u>	HR MIN		(°C) (mb)	A .	(deg) (m/s)	<u></u>	E E	╅╌	SIA. NAME/ID	<u> </u>
	735-44 N	16327	16	8 6 N U IS 20W	8 6 N O	052		•				3	-	200	_1
стр		TIMES	JD/	JD/TIME	<u> </u>		DAT	DATA LOCATION	NOL		REM	REMARKS		·	
$\overline{\alpha}$	TYPE & SN SB911+	DATA ON	_		<u></u>	Tape/Diskette ID	kette ID		File Name/Header	eder.					
PRESS SN		SC405 START DOWN	OWN O]				# *			
TEMP SN	11390	11390 AT DEPTH	 #		 	¥	02								
COND SN		AT SURFACE	ACE		<u> </u>		·				MAX	MAX. DE!TH	-		Ε
TEMP SN	4 1123 11391	X		XFLUOR	ChiAM		TRANSM	XTRANSMISSOMETER		Cleaned air bleed valve	ir bleed	valve			
TRIP			CTD CONVERTED MONITOR VALUES	<u>левтер</u>	NONITO	R VALUE	S		SAI	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	30TTLE	NOME	EB
	PRESSURE	SURE	PRI. TEMP.	.≡MF.	SEC. TEMP	EMP	SAL	SALINITY	SAL	SALINITY	SAL.	NUTR	CHL.	HPLC Other	Other
1	3						2 N					dil	4 8		
30	0					ŀ		A				:43	\$2.		
8	2											412	315		
Q	C										QP.	11/			
O												416			
	_											÷			
	6				R			l							
				N											
⊢ !				15											
	1			8						¥Œ					
	<u> </u>					111									

13	VESSEL				111	PROJECT & LEG	& LEG	-				STATI	ON DE	STATION DESIGNATION	NOL			
₹	Alpha Helix				Ť	HX209		-		ŀ		_ _	7	127	<u></u>			
Ű	CON								<u>3</u> H	<u> </u>		(puis	(imis				357	
· •	သွ								USS	AT2 NJR		N N		ысто				
Ö	ļ,			 	."		TIME	DRY		AS	WIND	DSP	dd∧	M DEPT				
	₹ *	LATITUDE	LONG	LONGITUDE	DATE	=OF	(GMT)	8 S	BULB F	IS (HE)	OHN.	O . (w/w)	.Ш∗	Ξ (Ξ		SIA. NAME/IU		
		_[21-	<u> </u>	<u> </u>				1				+				1-	0
\equiv	(225740.1	N - 0	1633	5	GWOG JUN	8 6 N () (1140	•						7	<u>ک</u> ج	JA3		
	CTD		TIMES	5	JD/T!ME			DA	DATA LOCATION	HON		<u> </u>	REMARKS	S				
<u>_</u>	TYPE & SN SB911+		DATA ON	7			Tape/Diskette ID	skette ID		Name	File Name/Header							
품	PRESS SN	50405 p5040	SCYCS p5040 START DOWN	OWN		; ;							5	10				
프	TEMP SN	1390	1390 AT DEPTH	 		,	(4)		Š.			•						
<u> ဗ</u>			AT SURFACE	ACE		i							MAX. DE:PTH	: ::9TH =		-	E	
<u> </u>		4 1133 11391	XPAR	X	FLUOR	<u>ਵੇ</u>	W _M	TRANSM	XTRANSMISSOMETER	ren	Cleaned air bleed va:ve	d air b	leed va	ير يو		<u> </u>		
SOG	S TRIP DEPTH			O O C	VERTE	MONIT	CTD CONVERTED MONITOR VALUES	ရွ		8	SAMPLE BOTTLE DATA	ATA	SAM	SAMFLE BOTTLE NUMBER	TTLE	NOMBE	es.	
		PRESSURE	URE	P.BI. T	TEMP.	SEC.	SEC. TEMP	SAL	SALINITY	"	SALINITY		SAL	NUTR	CHL.	HPLC Other	Other	
-	んな													419	/			
2	-													81/		П		
က	₩.	537						1						11	-			
4												G.		216				
5	0	i i						8				~_		415	,	\dashv		
9																7		
7														9	\dashv			
8		65												\exists	\dashv	\dashv		
6					Ì	:3						_		1	\dashv			
위						,,							200	_	\dashv	\dashv		
=		,								_	*:-		+	\dashv	\dashv	\dashv		
12									ri -						\dashv	_		

	5-											5 5											
PG		STA. NAME/ID			·		<u></u> ::	٤		I BER	Other												
2.		i Y	377		=		100			E NU	CHL HPLO			_	W		١,				\bot	\downarrow	
	ATION TO T		}. I . −I.			07		<u>"</u>		ІТТОВ		1	<u>.</u>	1.000		5		_					
	DESIGN CA	WEATHER WEATH W DEPT	(E) 1"	REMARKS		5		MAX. DEPTH =	valve	SAMPLE BOTTLE NUMBER	NOTR		523	22	124	20				_			
₽	STATION DESIGNATION	D WN CLOUD (amt) TYPE	• = 1	REM		a .04		MAX	peeld.		N.					*							
	STA	MIND OF STATE	(deg)	-	File Name/Header			1	Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY											2%	==
· · · · · · · · · · · · · · · · · · ·		WET BULB	(°C)	DATA LOCATION			2	::	XTRANSMISSOMETER	36 5.	SALINITY												=
of sections are an	T & LEG	TIME DRY (GMT) BULB	HAMIN 2		Tape/Diskette ID		1600		Chiam XTRA	CTD CONVERTED MONITOR VALUES	SEC. TEMP											1	
	PROJECT & LEG HX209	ATE JD=	DAY MO YR	I <u>Ш</u>	1			3		TED MONI		-								1	10	_	
		G GOLLONO!	MIN D	JD/TIME		NWO	 	ACE -	XFLUOR	TD CONVER	PBI TEMP				:								
en				TIMES	1+ DATA ON	P5040 START DOWN	11390 AT DEPTH	c501 AT SURFACE	11391 X PAR		PRESSURE								9			1	
	<u>.×</u>	LATITUDE	DEG MIN		TYPE & SN SB911+		9	•	#		-11	200	30	30	10	0							
=3:	VESSEL Alpha Helix	CON SC CAST	ري	CTD	PE & S	PRESS SN	TEMP SN	COND SN	TEMP SN	S TRIP DEPTH		┿)		_					
.0	<u> </u>	0 " 3			<u> </u>		<u> </u>	<u>ರ</u>	<u> </u>	SOS		N.	Щ.		0	5	9	7	8	6	위	7	12
		- No.	· • •			×			- 41	2.	ine a g 4		11	21					,	er 2			

CTD CALLED CATE DEN BULL DEG MIN DEG MIN DEG MIN DEG MIN CC JUIN 9 8 11338 LONGITUDE CATE DEN BULL DEG MIN DEG MIN CC JUIN 9 8 11338 LONGITUDE CATE DEN TIMES DOT DEG MIN CC JUIN 9 8 11338 LONGITUME TAPAN	PROJECT & LEG STATION DESIGNATION	NOI
TIME DEG MIN DEG MIN DEN BULL DEG MIN DEG MIN DEN MO YR HR MIN CO		K
TIME DRY LATITUDE	TE Y	
LATITUDE	ATS THE YOUR DOOR THE YOUR OWN	
DEG MIN DEG MIN DAY MO VR HR MIN (°C) US 1338	(GMT) BULB BULB F BY DIRN. D. CLY	STA. NAME/ID
CTD TIMES JD/TIME TAP6/JJU/N/9 8 1 238 1. CTD TIMES JD/TIME TAP6/Diskette SS SN P6040 START DOWN C501 AT SURFACE TRIP CTD CONVENTED MONITOR VALUES JCD CONVENTED MONITOR VALUE MONI	YR HR MIN (°C) (°C) (mb) (deg) (m/s)*	
E & SN SB911+ DATA ON Tape/Diskette SS SN P5040 START DOWN Tape/Diskette SS SN P5040 START DOWN Tape/Diskette P SN 11390 AT DEPTH CD CONVENTED MONITOR VALUES DEPTH CTD CONVENTED MONITOR VALUES 20 2 PRESSURE 20 2 PRESSURE 20 2 PRI. TEM? 20 2 SEC. TEMP 20 2 SEC. TEMP	8 338	7 CO
SS SN	DATA LOCATION REMARKS	ł.
SS SN 5040 START DOWN P SN 11390 AT DEPTH D SN 61,33 T1391 X PAR X FLUOR CTD CONVERTED MONITOR VAL DEPTH TRIP TRIP TRIP TRIP TRIP CTD CONVERTED MONITOR VAL O O O O	Tape/Diskette ID File Name/Header	
CEO1 AT SURFACE TIB91 AT SURFACE TIB91 AT SURFACE CTD CONVENTED MONITOR VAL CTD CONVENTED MONITOR		*
D SN		
P SN t1391 N PAR N FLUOI3 ChIAM TRIP CTD CONVENTED MONITOR VAL 20 SO CTD CONVENTED MONITOR VAL 20 CTD CONVENTE	MAX DEPTH =	ε
TRIP DEPTH PRESSURE PRI TEMP. SEC. TEMP 70 0 0	Chiam TRANSMISSOMETER Cleaned air bleed valve	!
90 90 00	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
30 00 00 00 00 00 00 00 00 00 00 00 00 0	SALINITY SAL NUTR	CHL, HPLC Other
0 0 9 9 9	429	<u> </u>
800	428	
90	427	
0	920	
	425	7
	A	
	62	
12		

CON SC CAST CAS

A VE	VESSEL Alpha Helix					PROJECT & LEG HX209	& LEG					STATIC	STATION DESIGNATION	C K	NOF -			
CON SC CAST		LATITUDE	FONGI	SITUDE	DATE	=Qr	TIME (GMT)	DRY BULB	WESSURE BULB PRESSURE	SEA STATE	VISIBILITY O WIN O I R.V.	D SN P SN D SN D SN D SN D SN D SN D SN D SN D	AGATHER WEATHER	BOTTO M DEPT H		STA. NAME/ID	ME/ID	•
		MIN	DEG	NIM	λ O	MO	HR	(S)_	()	(qm)) (6ep)	(s/w)	•	Œ		-		
2	265734	マ	1N163	7	WOL	WOLL UN98	1455		•			寸		7	7	אסע		
	CTD	_ - -	TIMES	5	JD/TIME		<u>-</u>	DA	DATA LOCATION	NOLL		<u>e</u>	REMARKS	S				
<u></u>	TYPE & SN SB911+	SB911+	DATA ON	- -	ļ	1	Tape/Diskette ID	skette ID	W	Nam	File Name/Header	.13						
PR	PRESS SN	50405 p5040	50405 p5040 START DOWN	OWN											€.			
重	TEMP SW	11390	t1390 AT DEPTH	 <u>"</u>	90		27	4		13		- 24					1000	
8		c501	AT SURFACE	-ACE	\$2					İ		Ξ	WAX. DEPTH =	PTH=			E	
<u> </u>		4 1.33 11391	X		X FLUOR	ChlAM	_	TRANSN	XTRANSMISSOMETER	TER	Cleaned air bleed valve	air bk	jed val	, e				
SOS	TRIP DEPTH			TD COL	WEFITE	D MONIT	CTD CONVERITED MONITOR VALUES	မ္သ	e a	<u> </u>	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	LE BO	TTLE	NCM B	EE .	· · · · ·
			1		調					<u> </u>		t3						
	1	PRESSURE	SURE	PRI. TEMP.		SEC.	SEC. TEMP	SAL	SALINITY		SALINIIY	<i>p</i>	SAIL.	7.1	3	HPLU Other	E C	፟
-	25.				1					1		Ť	/	12	7		_	\top
7	30,	لد			j					_		+	5	356	1			7
3	90	: 5			80,								-	E			_	_
4	0/									_			2)	30				
2	Q		· ·				_					SA.	2	35	2			_
9								5		=					-			
7						20 -8					25		#2 90					
8														\dashv	_			
6													_	\dashv	\dashv			_
10					840							寸		\dashv				_
11		1								_	•	-		-				
12											VA	- T-		\dashv	\exists			\neg

VESSEL Alpha Helix				PR	PROJECT & LEG HX209	LEG				<u> </u>	STATIC	STATION DESIGNATION	GNAT	S/S		
CON SC CAST	i G	Š	<u>.</u> <u>.</u>	L +	٥	TIME	*	HESSOHE E E K K K	STATS AS TTUIBISI	DIND	VIN O S O O O O O	RETHER	BOTTO M DEPT	CTA	CTA MANAGUD	Ç
# DEG	G MIN	DEG N	MIN	DVY MO	Ϋ́B	HH MIN	ရှင် ရှင်	_	A S Q	(deg)		^ •	(m)	ָ פֿ		<u>)</u>
1275732.1	2-15N	631	137	37 VI C 6 NU 9 8	8 N 0	523							4	77	3	
СТБ		TIMES	/Qr	JD/TIME			DA	DATA LOCATION	NOI		<u> </u>	REMARKS	ιΩ			
TYPE & SN SB911+	B911+	DATA ON	_		<u></u>	Tape/Diskette ID	kette ID	95	Name/	File Name/Header	- 1					
PRESS SN	50403 p5040	50405 START DOWN	NW0				}					. I		ē:		
TEMP SN	11390	t1390 AT DEPTH	_			80				9					-	
COND SN		AT SURFACE	ACE	34	.					:	Σ	M.X. DEPTH =	≥TH=			Ε
TEMP SN	11391	X PAR		XFI.UOR	ChiAM		FRANSM	XTRANSMISSOMETER	Ш	Cleaned air bleed valve	air Die	visd valv	á			
POS TRIP DEPTH			0	Æ:TED I	MONITOR	3 VALUE	S		<u> </u>	SAMPLE BOTTLE DATA	¥.	SAMP	E BO	SAMPLE BOTTLE NUMBER	UMBE	H:
	PRESSURE	URE	PRI. TEMP.	# 6 X	SEC. TEMP	EMP	SAL	SALINITY	S	SALINITY		S.AL. JNU	NUTR, C	CHL. H	HPLO Other	Other
1/7				iii Se					G			12 4	hhh	2		
2 30			2										145			
3	59.											h	2 <i>bh</i>			
4 10												5	144	1	\neg	
5 0	6											7	160			
9					,				L,			-		_		
7										e			\dashv	_		
8	6											-	\dashv	-	\dashv	
6								, e.				\dashv	\dashv	_	\dashv	
10		=		(41)							_	-	\dashv	\dashv		
11	,									•	+		\dashv			
12					:				_	73	100		\dashv	\dashv	\dashv	

		•	V:							ď	PGOF	
VESSEI	-		PRO IECT & LEG	2		STA	I NOIT	FEGIGNAT	NO	Г	2=	iā.
Alpha Helix			HX209					しなり	0			
z""			_			WIND WIND OF STREET AND A STREE	44.	EZTHER M DEPT				11
# ATITUDE	_ <u>-</u>	NGITUDE DAT	-OF	(GMT) B'	B'JLB BULB T	DIRN.		I E	- 1	STA. NAME/IC		
₹	N N	19.61	8 6 N U L			(an)		149		e .		
СТВ	TIMES	SS JD/TIME			DATA LOCATION	NO	REM	REMARKS		3 13		
TYPE & SN SB911+	11+ DAT	DATAON	<u>- </u>	Tape/Diskette ID	200	File Name/Header				1		
PRESS SN	5040 p5040 START DOWN	NWO IF	l 						팔	·		
TEMP SN	11390 AT D	AT DEPTH	<u> </u>						:			
COND SN		AT SURFACE	.	t.	(M)		MAX.	MAX. DEPTH =		영론	8	
4 / TEMP SN	1391	X PAR X FLUOR	ChiAM		XTRANSMISSOMETER	R Cleaned air bleed valve	bleed	valve		772.0		
POS TRIP DEPTH	I	6	D MONITOR	VALUES		SAMPLE BOTTLE DATA	SA	SAMPLE BOTTLE NUMBER	TTLE NUN	ABER		<u> </u>
	PRESSURE	PRI. TEMP.	SEC. TEMP	₽	SALINITY	SALINITY	SAL	NUTR	CHL. HPL	HPLC Other	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
45	×							449		-		
30								824				
90					*			447				
0)								244	7	_		
C					5		œ_	495 C				
	- 6											
				-	٨					E		
	,											
									-			

	QV					_		œ	ther						_[\neg		Ţ			
8	STA. NAME/ID	<u>1</u>	_		_	Ε		SAMPILE BOTTLE NUMBER	HPLC Other	-		i	_	\dashv	-	\dashv	-	-	\dashv	-	
Z N	STA.	7					140.75	LE N					=	\dashv	_	_	4		_	4	
SIGNATIO	TTO (c	2			8 3	" "		LI.O8	- 를	7	22			2	_				_		
SESIG		BEWARKS				MAX. DEPTH	valve	MPLE	NUTR	454	253	452	12/	450							
STATION DESIGNATION	1 4441121	BEW.	Ü			MAX.	pleed	Y S	SAL.						. ==				é	ľ	
STA	D SP (m/s) (amt)		<u>r</u>				Cleaned air bleed valve	E ATA	≥											8	
	WIND DIRN. (deg)		Head		367		Clean	SAMPLE BOTTLE DATA	SALINITY												ñ
	VISIBILITY VISIBILITY		File Name/Header		్	1)° <u>[</u>	S												
	HESSURE (g		File		- 4		MET	l	>-												
	WET BULB (°C)			ľ	1		MISSC		SALINITY												į
-	DRY BULB		Tape/Diskette ID			46	XTRANSMISSOMETER	တ	<i>t</i> s.								8				
9	TIME (GMT) HR MIN	349	pe/Dis	22		i li	X	CONVERTED MONITOP VALUES	ΑP	'		100									
CT & L	YR (G		<u> </u>				ChlAi⊼	TOP	SEC. TEMP												
PROJECT & LEG HX209	I 11 🗆	6 Z			 	i	Ë	NO _E	SE										~	S?	
<u> </u>	DATE JD= DAY MO	42 WO 6 JUN 9 8	ļ				۳ ا	RTED	∕IP.												
	Ш	30WG	3				XFLUOR	ONO!	PRI. TEMP												
	LONGITUD	4.ec	Z	DOW	王	FACE	_ ا	12	Pf				Щ								
	LON	163	DATAON	Seyes p5040 START DOWN	tt 390 AT DEPTH	AT SURFACE	XPAR		ᇎ												
				4C5 040 S	390 A	_			PRESSURE			20					,		_	ŧ	
	LATITUDE G MIN	7.5	8911+	ें <u>द</u>	ž	c501	& E = €		PF					17							
El Helix	LATITUI DEG MIN	295727.50N	TYPE & SN SB911+	SN	SN	S	NS.	TRIP DEPTH		410	30	6	Ó	0							
VESSEL Alpha Helix	CON SC CAST	1295	YPE	PRESS SN	TEMP SN	COND SN	TEMP SN	r soa		-	2	8	4	5	9	7	8	6	10	11	12

MO

STATION DESIGNATION	WIND D SPORT M DEPT DIRN. D. CLYN H STA. N (deg) (m/s) ** (m)	REMARKS	/Header		MAX. DEPTH ≈ m	Cleaned air bleed valve	SAMPLE SAMPLE BOTTLE NUMBER BOTTLE DATA	SALINITY SAL NUTR, CHL. HPLG Other	159 1	458	457	226	455 /							
PROJECT & LEG HX209	TIME DRY WET SEED SEED SEED SEED SEED SEED SEED SE	DATA LOCATION	Tape/Diskette ID File Name/Header		200	Chiam XTRANSMISSOMETER	r	SEC. TEMP SALINITY S												
PROJE HX209	LONGITUDE DAT	16334.97W0631UN9	11+ DATA ON	1390 AT DEPTH	1 AT SURFACE		CTD CONVERTED MONITOR VALUES	PRESSURE PRI. TEMP. S								Ð		©		
VESSEL Alpha Helix	CON SC CAST # LATITUDE DEG MIN	1305738N163	TYPE & SN SB911+		_		POS TRIP DEPTH	PRE	1 42	2 32	3 70	0/ 4	5 O	9	7	80	6	10	11	('

VESSEL	-			PR	PROJECT & LEG	LEG				ST	STATION DESIGNATION	JESIGN	ATION	9	
Alpha Helix				HX209	509		_					Ũ	20	0	
NOO			-		 .	•		SOHE	STAT YTIJ	ii Z	(amt)	HER BOTTO	<u>.</u>		
—	į.	-	Ļ		•	TIME	DRY	WET STATES	IOICI	WIND D SP		M DE		CITA MARAGAD	קר ביי
# DEG	G MIN	DEG	LONGI 10DE	DAY MO	۲٩	HR MIN	—		A			(E)	1	2	<u> </u>
13257205	0.55N	163	30.00W	DOWO GJUN98	8 6 8	523	-					5	N K	ر ت	
CTD		TIMES	JD/TIME	IME		-	DA	DATA LOCATION	NOI		REM	REMARKS		Ÿ.	
TYPE & SN SB911+		DATA ON	7			ape/Dis	Tape/Diskette ID		File Name/Header	eader					
PRESS SN	50405 p5040	50405 p5040 START DOWN	NWO			83				ļ			· 1		
TEMP SN	t1350	t135C AT DEPTH	_ 					2	-	Í			Ī.		
COND SN	c501	AT SURFACE	ACE				(C)		1		MAX.	MAX. DEPTH	© H		ε
TEMP SN		XPAR	X	FLUOR	CHAM		TRANSM	XTRANSMISSOMETER		Cleaned air bleed valve	ir bleed	valve	5		
POS TRIP DEPTH			CTD CONVERTED MONITOR VALUES	ERTECIA	NONI TO	3 VALUE	တ္တ	70	BOTT	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	OTTLE OTTLE	NOMB	ER
	PRESSURE	URE	PRI. TEMP.	MP.	SEC. TEMP	EMP	SAL	SALINITY	SA	SALINITY	SAL	NUTR.	CHL	HPLO	Other
40												469	\sum		
2 30			·		1							168		<i>35</i>	(A)
۵ ک	Ü											Kez	9.4	E	
												997	1		
5 0			:							:		465			
9				-											
7			ř												
8	30							:							
6			6								TE2				
10	_			12.	!										
11	,				A					Z.					
12															

	þ			-										٢	
VESSEL				<u>L</u>	PROJECT & LEG	, LEG	-			STAT	ON DE	STATION DESIGNATION	, jo		
Alpha Helix				Ĩ	HX209		-	-			-	>	Town	7	
NOO						<u>, </u>		340	-312 	(ims)					
SC						TIME	DRY	E220 LJ	TS A	NIN O	HTA:	BOTTO M DEPT	_	headon	75 M
	LATITUDE	LONGITU	ITUDE	DATE JD=		(GMT)	BULB	BULB F	ME DIRN.	٥	11	Ξ	Y STA	STA. NAME/ID	۵
DEG	MIN	DEG	MIN	DAY N	MO YR	HR MIN	္မ	(°C) (mb)	(deg)	(m/s)	•	Ξ		_ 	
13257	18.17N	3N1633	3.5 CWO 6 JUN 9 8	20 S	8 6 N	0 6	•						7		
CTD	ŝ	TIMES		JD/TIME			[PA]	DATA LOCATION	NO.	-	REMARKS	IKS			
TYPE & SN SB911+		DATA ON	7			Tape/Diskette ID	kette ID	File	File Name/Header	<u></u>					
PRESS SN	50403 p5040	P5040 START DOW	NWO		; 							0			
TEMP SN	11390	t1350 AT DEPTH	, I					10							
COND SN	c501	AT SURFACI	ACE		l !	1	æ.				MAX. DEPTH	EPTH =		ε	
TEMP SN	_	XPAR	$\overline{}$	XFLUOR	ChIAM		FRANSM	XTRANSMISSOMETER		Cleaned air bleed valve	leed va	i e			
POS TRIP DEPTH			<u> </u>	/ERTED	CONVERTED MONITOR VALUES	4 VALUE	ဖ ဖ		SAMPLE BOTTLE DATA	E DATA	SAM	SAMPLE BOTTLE NUMBER	TLE N	JMBER	,
	PRESSURE	URE	PRI. TEMP.	EMP.	SEC. TEMP	EMP	SAL	SALINITY	SALINITY		SAL. IN	NUTR, CHL,		DOC HPLG Other	V ē
13	7											1751			
2 40	7						=					121			
												EL			
								:	₹5		100	77.			ī
9												H		\dashv	
0			L			=		ij			7	130	2	_	
7													\dashv	\dashv	Ţ
8	-											\dashv	_	_	-
6											\dashv		1		\overline{T}
10			U.							3	8	_	\dashv	_	1
11	·	-									1	-	\dashv	+	Т
12									ŝ	7			-		٦

VESSEL Alpha Helix				PROJE HX209	PROJECT & LEG HX209	LEG					STATI	ON D	STATION DESIGNATION	CAC	16		
CON SC CAST	LATITUDE	LONGITI	UDE	DATE JD=		TIME (GMT)	DRY	WET SOURE PULB PE	SEA STATE YES	WIND DIRN.	D WIN P CLOUD (amt)	CLOUD (amt) TYPE MEATHER	M D		STA. NAME/ID	ME/ID	
DE	MIN	DEG	Z	DAY MO	ΥR	-	(၃)	(°C) (mb)	٥	(Gep)	* (s/m)	•	(ω)		50		
13457	15:88N	163	35-00 W	OWD (L) OWCO		1942		•			\dashv		3	700	ر ا ا		
		—	JD/TIME	IME			DAT	DATA LOCATION	TION		<u> </u>	REMARKS	RKS				
TYPE & SN SB911+	SB911+	DATA ON	-		<u> </u>	Tape/Diskette ID	kette ID	File	Nam	File Name/Header							
PRESS SN	50405 p5040	5040 START DOWN	OWN		·	·											
TEMP SN	11590	11390 AT DEPTH	·					•	70:								
COND SN	c501	AT SURFAC	ACE									AAX. [MAX. DEPTH ::	it		Ε	
TEMP SN		X PAR	XFLUOR	HON	CIAM		RANSM	XTRANSMISSOMETER	EB	Cleaned air bleed valve	l air b	eed v	alve	3 ⁷			
POS TRIP]]	le	CONVERTED MONIFOR VALUES	ON TOR	WALUE:	S	: E	<u> </u>	SAMPLE BOTTI E DATA		SAN	SAMPLE BOTTLE NUMBER		NOM	EH.	Γ
UEP I		П							Ď		<u> </u>		į	Ţ			Т
	PRESSURE	URE	PRI. TEMP.	MP.	SEC. TEMP	MP	SAL	SALINITY		SALINITY		SAL.	NUTR	GH.	HPLO	Other	
1 45					£								181				_
2 60					94			!	=				081				_
													fth.				Г
2													84.5				- 1
5 10							1/12	110					desh			į	
9													96%				_
7													_				
8	-								_								
6								a									
10											+	ē	1				-
11				-		\dashv				4 1			1				
12						-				â	\dashv	\exists					_

TIME PROJECT & LEG STATION DESIGNATION PROJECT & LEG PROJECT PRO		E/ID	1			E		er.)ther				7	_							
Time		NAM]		IUMBE	PLOC		27		ᅦ						_		\dashv
STATION	SUI.	STA	_					TLE N		1			\dashv		1	\dashv	_			_	
SEL	SNAT	OTTO CEPT H				Ħ.	a a	EBOT	<u> </u>	1	2	D	<u>2</u>	Q	1 21			-			\dashv
STATION	DESI	• WEATHER	MARKS			C. DEP	d valve	AMPL		2	49	18	2	7	28				_	_	
PROJECT & LEG	ATION	· LLABE	- 1			₹	r blee		SAI												_
Carry Carr	ST	0 N (c		der	ı	ı	ned ai	ર્ગદ DATA	ΙΤΥ											0	
A				у/Неа			Clea	SAME	SALIN				ļ						Ì		
SEL HEIKX A HEIKX A LATITUDE LONGITUDE CIMIN BULB BULL CIMIN	SIAICASC		Name	25		TEH I	<u>8</u>	<u> </u>				_	_						_		
SEL Helix A Helix A LATITUDE LONGITUDE DEG MIN DEG M			§	File Bill Bill Bill Bill Bill Bill Bill B	3		SOME	. 50													
SEL Helix A Helix A LATITUDE LONGITUDE DEG MIN DEG M	e		PATA	٩	1	1	SMIS		SALINI												
Time				skette	e	9	THAN	န္									(3)				
SEL	EG	R MIN	-	tpe/Di	0			NALU!	MΡ		CC .		U								
SEL a Helix T LATITUDE LONGITU DEG MIN DEG MIN DEG MIN SS SN SB911+ DATA ON SS SN P5040 START DOW P SN t1390 AT DEPTH D SN t1391 MPAR TRIP TRIP CTD CTD CTD CTD CTD CTD CTD CT	CT & 1			<u> </u>	133		HAM	ITOR	C. TEI					:							
SEL a Helix T LATITUDE LONGITU DEG MIN DEG MIN DEG MIN SS SN SB911+ DATA ON SS SN P5040 START DOW P SN t1390 AT DEPTH D SN t1391 MPAR TRIP TRIP CTD CTD CTD CTD CTD CTD CTD CT	ROJE 1X209	= Q <u>₩</u>	N N	1	9	i		NO NO	8		ŝ		93		: 				TD:		
SEL a Helix T LATITUDE LONGITU DEG MIN DEG MIN DEG MIN SS SN SB911+ DATA ON SS SN P5040 START DOW P SN t1390 AT DEPTH D SN t1391 MPAR TRIP TRIP CTD CTD CTD CTD CTD CTD CTD CT		ותואלו	7 W		0		HON	ERITEI	MP.											E	
SEL a Helix T LATITUDE LONGITU DEG MIN DEG MIN DEG MIN SS SN SB911+ DATA ON SS SN P5040 START DOW P SN t1390 AT DEPTH D SN t1391 MPAR TRIP TRIP CTD CTD CTD CTD CTD CTD CTD CT					_				RI. TE			- 01									
SEL ATT OF SN SS SN SS SN SS SN SN SN SN SN SN SN		<u> </u>	কো	Z	¥ Zir	FACE	يم	2	:			-	Ş								
SEL ATT OF SN SS SN SS SN SS SN SN SN SN SN SN SN		LON	IMES	ATA (TOEF	TSUE	₩	<u> </u>]	JRE												
SEL ATT OF SN SS SN SS SN SS SN SN SN SN SN SN SN			2	+ 50%	390 8				7ESSL			12					**			,	
Haraman Single S		MIN N	0.5	38911 არ	ă. I	: "t	± #		4				=,;								
BB S W W W W W W W W W W W W W W W W W W	[] Helix	L L	<u>₩</u>	S SN S	N NS	S	SN	TRIP EPTH		6	40	30	30	0	0						
N	VESSI	CON SC CAST #	1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	TYPE,	PHES. TEMP	ONOS	LEMP	. soa		-	2	3	4	5	9		8	6	10	11	12

CON	110001					PROJECT & LEG	FG	-			STAT	NO!	SIGNAT	NO	Γ
LATITUDE LONGITUDE DATE JD= CIANT) BULB BULB STORM D. SOPE MAN DEPT STA NA DEST STORM D. SOPE MAN DATE JD CIANT	Alpha Helix				X	209	;:a	-			_	Ĭ	30	0	\neg
Convertible Dayle	SC						TIME			1 1171010	WIN D SP	OUD (amt) PE PTHER	BOTTO M CEPT		
DEG MIN DEG		TITUDE	LONG	TUDE	DATE		_			NIS PE	٥		<u> </u>	STA.	NAME
# S S N SB911+ DATA ON TIMES JOTIME DATA LOCATION REMARKS E & SN SB911+ DATA ON Tape/Diskette D File Name/Header SS SN SS SN SCOOTS STAFT DOWN Tape/Diskette D File Name/Header SS SN SCOOTS STAFT DOWN Tape/Diskette D File Name/Header SS SN SCOOTS SO STAFT DOWN TAPEN STAFT STAFT DOWN TAPEN STAFT ST	DEG	MIN		N.W		٤	HR MIN	္မ	Ti i			-	E		20
CTD TIMES JD/TIME DATA LOCATION REMARKS E.S. SB911+ DATA ON Tape/Diskette ID File Name/Header AMAX. DEPTH = MAX. DEPTH = M	N	9.6 2 N	1631	-	1000	8 6 N								2	<u>o</u>
SS SN	СТО	<u> </u>	TIMES	₽	TIME			DAT	A LOCATH	NO	•	REMAR	KS		
SS SN 7504C3 TART DOWN P SN 11390 AT DEPTH D SN 41339 AT SURFACE CTD CONVERTED MCNITOR VALUES BOTTLE DATA PRESSURE PRI. TEMP. SEC. TEMP SALINITY 136, 4/9 2 100 100 100 100 100 100 100 1	TYPE & SN S	SB911+	DATA ON	_			Tape/Dis	cette ID	File N	ame/Head	er	:		\$1;	
P.SN 11390 AT DEPTH	PRESS SN	50403 p5040	Start d	OWN		<u>.</u>									
D SN c.501 AT SUBFACE MAX. DEPTH = P SN #1333 Name of the conversion of the conversi	TEMP SN	11390	AT DEPTI	ı				. 4						ļ	_
P SN \$ 1133 M PAR SELUCR CHIAM STRANSMISSOMETER Cleaned air bleed valve: SECTEMP SAMPLE SAMPLE FOTTLE NUMBER SALINITY SAL NUTR CHL. HPLC PRESSURE PRI. TEMP SEC. TEMP SALINITY SAL NUTR CHL. HPLC 30	OOND SN		AT SURF,	 					Б			MAX. D	EPTH =		Ε
TRIP CTD CONVERTED MCNITOR VALUES SAMPLE SAMPLE EDITLE DATA DEPTH PRESSURE PRI TEMP. SEC. TEMP SALINITY SAL. NUTR. CHL. HPLC 30 10 136 492 126 179 10 126 179 126 179 10 126 179 126 179 10 126 179 126 179 10 126 179 126 179 10 126 179 126 179 10 126 179 126 179 10 126 179 126 179 10 126 179 126 179 10 126 179 126 179 10 126 179 127 179 10 127 179 127 179 10 127 179 127 179 10 127 179 127 179 10 127 179 127 179 10 127 179 127 179 10 127 179 127 179 10 127 179 127 179 10 127 179 127 179	TEMP SN		XPAR	E E	LUOR	GHA		RANSMI	SSOMETE		ed air t	leed va	lve:		
PRESSURE PRI TEMP. SEC. TEMP SALINITY SALINITY SALINITY SALINITY CHI. HPLC 30 20 10 10 10 10 10 11 12 12 13 14 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	POS TRIP DEPTH)]	10 CON	/ERTED I	MCNITOF	3 VALUES	0	M	SAMPI BOTTLE [E DATA	SAM	PLEEO	TTLE NU	MBER
47 30 30 30 00 10 10 10 10 10 10 10 10 10 10 10 10			î		16										
30 01 02 02 02 02 02 02 02 02 02 02 02 02 02		PRESSI	ISE ISE	PRI. TE	NP.	SEC. T	HWE	SALI	À	SALIN	T				3
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-						1						27	╬	+
										į	٦	-	7/	4	+
												7	06	\dashv	_
													50	-	_
	12,75%									ļ		9	88/	1	-
	9					b		2					tion i	+	\dashv
	7	1.5			8							T.E.	+	-	-
	60													-	1
	60	i i											34	\dashv	\dashv
11	10	- 1											+	-	_
12	11			c								\dashv	-	4	<u> </u>
	12						-								_

to = 05

							5					
VESSEL Alpha Helix		 		PROJECT & LEG HX209	LEG			STATIC	STATION DESIGNATION	NATIO	Z۸	
CON SC CAST	LATITUDE	FONGIL	UDE DAT		TRME (GMT)	DRY WET BULB BULB	SEA STATE VISIBILITY DURIND		YPE WEATHER WEATHER	EPT	STA. NAME/ID	AME/II
OE OE	DEG MIN	DEG	N.	Œ	HR MIN	(2) (2)	(Gep) qw)	(deg) (m/s)	(E)	<u>_</u>		- 6
13757	1375751163	1 -	4.65WO63UN98	68 6 N U L	1866					97	G 110	का
СТО	1	TIMES	JD/TIME			DATA LOCATION	ATION	<u>œ</u>	REMARKS			
TYPE & SN SB911+	SB911+	DATA ON	z	Ľ	ape/Dis	Tape/Diskette ID Fi	File Name/Header	<u>.</u>			63	
PRESS SN	50403 p5040	5040 START DOWN	NMOC			Ĭ						
TEMP SN	11390	11390 AT DEPTH	E		į		9.50		20		3	 1
OOND SN		AT SURFAC	-ACE	<u> </u>				Σ	MAX. DEPTH	H=		E
TEMP SN	4 1133	XPAR	XFLUOR	ChlAM		XTRANSMISSOMETER		d air ble	Cleaned air bleed valve	537		
POS TRIP DEPTH			l₽	Ž	VALUE	0	SAMPLE BOTTLE DATA	E ATA	SAMPLE BOTTLE NUMBER	БОТТ	LE NUA	ABER
	PRESSURE	SURE	PRI. TEMP.	SEC. TEMP	ΜP	SALINITY	SALINITY		SAL. NUTR	봉		HPLC Other
4>						12-1			166			
200							: II. —		164	7		
ļ									28%			4
\$									15%		_	_
5	41							_	795	7		\dashv
₩ 9									<u></u>			4
1										_	\bot	_
80						5001		\dashv				-
6									12			\perp
10	- 1								$\frac{1}{1}$		_	
11					+				-			23
12					_				4			
			i									

															ſ	
VESSEL	SEL				 	PROJECT & LEG	R LEG	ı			STAI	STATION DESIGNATION	SIGNATI	NO.		
Aph	Alpha Helix				프	HX209	.39	_			_	Ú	NET		7	
CON SC CAST		#Z					TIME	DRY W	HEZZOHE E H K K	TIBISI VIOLENIE AS VIOLENIE A	WIN	YPE YPE RATHER	BOTTO M DEPT	STA NAME/ID	AME/II	_
#	ے	G MIN	DEG MI	MIN	DAY	S YR	HR MIN		Q W	A	(m/s)	1	(m)			,
2	35/72	385 724.3 UN		<u>~</u>	NO65	3W06010N98	930e	-					50	ラマン	<u> </u>	
	CE	36	THMES	,	JD/TIME			DATA	DATA LOCATION	No	•	REMARKS	· S			
_YP	TYPE & SN SB911+	:B911+	DATA ON	z		· · ·	Tape/Diskette ID	kette ID	File	File Name/Header	der			£		
P.	PRESS SN	50405 p5040	50403 p5040 START DOWN	NWOC	:	<u> </u>		-	ii							\$0°
TEM	TEMP SN	11390	11390 AT DEPTH	E		,×		87	EE .					ļ		
8	COND SN		AT SURFACE	FACE		<u> </u>	EX .		h e			MAX. DEPTH =	PTH =		Ε	.3
TEM	TEMP SN	\$ 1193 11391	XPAR		XFLUOR	ChIAM		XTRANSMISSOMETER	SOMETE		ned air t	Cleaned air bleed valve	, ve			
8	TRIP DEPTH			12	VERTED	CONVERTED MCNITOR VALUES	R VALUE	S		SAMPLE BOTTLE DATA	ીં DATA	SAME	SAMPLE EOTTLE NUMBER	TLE NUI	ABER	_
,		PRESSURE	SURE	PRI. TEMP	EMP.	SEC. TEMP	EMP	SALINITY	Ţ	SALINITY	ΙΤΥ	SAL. N	NUTR CHL.		HPLC Other	⋇
-	76		, .			: E						8	205		_	Т
2	30	7										5	18		_	
က	2	-	:									8	200		4	Т
4	01							€5				5	664	<u> </u>	_	
2	0											7	1864		\downarrow	Т
9													5° i :	\dashv	_	$\overline{}$
7													+	-	_	
													+	_		
6												-	-	_		
10		‡										_			_	т
=							+					_	,	_	ij.	
12									2			-	\dashv	_		

2.00

		:									-			ļ	_
VESSEL Alpha Haliv	_			F X	PROJECT & LEG	r LEG	(S	TATION	STATION DESIGNATION	ATION For		-
NO S	53							3505			(ims) U	E BOTTO	٥		
CAST *	LATITUDE	LONGIT	SITUDE	DATE JD=		TIME (GMT)	DRY BULB	WET ES	AISIA	WIND D	TYPE	MEA T T		STA. NAME/ID	ME/ID
DEG	DEG MIN	DEG	Min	DAY M	MO YR	HR MIN	(၃)	(°C)		(deg) (m	•	<u>\$</u>	-	-	
1395239.00N	20.00N	1630	7.05W	OFWO6JUN98	8 6 N	2357	· (E)						22	765	
СТО		TIMES	JQF	JD/TIME			DAI	DATA LOCATION	NOL		REN	REMARKS			
TYPE & SN SB911+		DATA ON	7			Tape/Diskette ID	kette ID		File Name/Header	leader				#1	
PRESS SN	50405 p504 0	50403 p5040 START DOWN) NWO		<u></u> -										89
TEMP SN	11390	t1390 AT DEPTH	E	l			===	1		,					
COND SN	50	AT SURFACE	FACE					-			MAX	MAX. DEPTH	0		E
TEMP SN	4 11331	X PAR		XFLUOR	ChIAM		RANSMI	XTRANSMISSOMETER		Cleaned air bleed valve	ir bleed	valve			77
POS TRIP DEPTH			<u>1</u> 2	ERTED I	CONVERTED MCNITOR VALUES	* VALUE	S	-y -	BOT	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	OTTLE	NOME	SER -
	PRESSURE	URE	PRI. TEMP	MP	SEC. TEMP	- MP	SALI	SALINITY	S.	SALINITY	SAL.	NUTR	GHL,	HPLO Other	Other
1 43					5 2 3 3 5						3	507	7		
2 30				2.1	150			,				206			
3											<u> </u>	505			
0/					in 1							204			
6 0						_					_	503	>		
9		1										te a			
	5							٠,							
8								-					ŀ		, -
6				_											
10	_ 1			-											
11			51							:				- -	ş.
12															

		27			0.0							(:					2					
	STA. NAME/ID	WE 3	- /	ii e	40.		E [***	NUMBER	HPLC Other				2	2						70	
STATION DESIGNATION	MEATHER BOTTO		REMARKS				MAX. DEPTH =	d valve	SAMPLE EOTTLE NUMBER	NUTRI CHI.	512 V	511	SN	50	805	554						
STATION	WIND D SP DIRN. D.	(s/w) (bep)	. REI	/Header			MA	Cleaned air bleed valve	SAMPLE S BOTTLE DATA	SALINITY SAL.										ê	-	-
		(°C) (mb	DATA LOCATION) File Name/Header		3	[XTRANSMISSOMETER	BO	SALINITY		-										_
CT & LEG		98 G G 38 .		Tape/Diskette ID				A XTRANSA	3 VALUES											Į.	B	
PROJECT 8	-Or :3	MO YR		<u>-</u>				R	ED MCNITOR	SEC. TEMP	<u>(</u>)	ŧa	II									
	Щ	MIN DAY MO	JD/TIME	Z	DOWN	Ŧ	FACE	R XFLUOR CHIAM XTF	CTD CONVERT	PRI. TEMP.				31.			:					
	ж	SN C3	TIMES	11+ DATA ON	5040 START DOWN	t1390 AT DEPTH	c501 AT SURFACE	V □ X		PRESSURE							1.5			-,		
VESSEL Anha Heliv	CON SC CAST LATITUDE	DEG MIN	CTD	TYPE & SN SB911+	PRESS SN	TEMP SN	COND SN	TEMP SN	TRIP DEPTH		14	30	20	0	C							
2 4	2 0 2	7		3	A H	P	8	<u> </u>	స్ట		-	7	က	4	2	9	7	8	6	10	11	12

							,							
Continue VESSEL				PROJE	CT & LEC	(5			STAT	ION DE	SIGNATI	8 0		
LATTIUDE LONGITUDE DATE JD= CONTINUE DRY WETE DESCRIPTION DEG MIN DE	Alpha Helix				HX209	.74					4	ル 山 2	6	٦
CTD CANTIUDE DATE JUS TIME DRY WEI STATE DATE JUS CANTIUDE CANTIUDE DATE JUS CANTIUDE DATE JUS CANTIUDE DATE JUS CANTIUDE DATE JUS CANTIUDE N 00				<u> </u>		· · · · · · · · · · · · · · · · · · ·	3HI			HE				
THESE LONGITUDE DATE D	သွ			,				ţ	פורו	WIN	<u>а</u> НТ7	ВОТО		
				L C	ָרָ הַ		_	WE I	ISI	ה ה	/3A	֓֞֝֜֝֞֝֜֝֝֞֝֝֡֞֝֝֞֝֝֡֞֝֝֡֞֝֜֝֞֝֡֞֝֞֝֞֝֡֞֡֝֡֡֞֝֡֞֡֞֡֞֡֞	STA	AME/II
574 1046 1	ᄪ	Ý	DEG	IN I	10	X.		(°C)		(m/s)	1:	E		П
CTD TIMES JD/TIME DATA LOCATION REMARKS E & Sh SB911+ DATA ON Tape/Diskette ID File Name/Header August SS SN SP040-STAFT DOWN SS SN SP040-STAFT DOWN August August August P SN 11390-A TSUFFACE August August August August P SN 11391-A TSUFFACE August August August August P PRESSURE PRIL TEMP SEC. TEMP SALINITY SALINITY August P PRESSURE PRESSURE August August August August P PRESSURE PRIL TEMP August August August	747 17		8	6.9 7W	NU CHO	11	73	•				7		<u>&</u>
E & Sh SB911+ DATA ON Tape/Diskette ID File Name/Header Imax: DePTH SS SN SP311+ SOVCS START DOWN MAX. DEPTH MAX. DEPTH = SAMPLE SOVLETER MAX. DEPTH = MAX. DEPTH = MAX. DEPTH = MAX. DEPTH = SAMPLE SOVLETER P SN 1139	с£Э		TIMES	T/Qf	IME		_	DATA LOCAT	NO		REMAR			
SS SN \$504CS	TYPE & SN (DATA ON	-		Tape	/Diskette		iame/Heade	<u>~</u>		reh 1	lend	`
P. SN 11390 AT DEPTH	PRESS SN	50403 p5040	Start d	NWO.		:				•				
D SN 4 (1.8.3)	TEMP SN	11390	AT DEPT	 	1.				:					$\overline{}$
P SN # 1133 Mar MELUOR Chlaum TRANSMISSOMETER Cleaned air bleed valve DEPTH CTD CONVERTED MCNITOR VALUES SAMPLE EOTTLE NUMB DEPTH PRESSURE PRI. TEMP SEC. TEMP SALINITY SALINITY SALINITY CHL. HPLC 17 <td< td=""><td>NS CINCS</td><td></td><td>AT SURF</td><td>ACE </td><td></td><td></td><td></td><td> </td><td></td><td>L_<u></u></td><td>MAX. DI</td><td>EPTH =</td><td></td><td>Ε</td></td<>	NS CINCS		AT SURF	ACE				 		L_ <u></u>	MAX. DI	EPTH =		Ε
TRIP CTD CONVERTED MCNITOR VALUES SAMPLE SAMPLE SAMPLE EDOTTLE NUMBER 1 PRESSURE PRI, TEMP. SEC, TEMP SALINITY SALINITY SALINITY HPLC 17 1	TEMP CN		MPAR	II X	۲	HAM -	XTRAN	SMISSOMETI		d air b	leed va	Į,		_
PRESSURE PRI. TEMP. SEC. TEMP SALINITY SALINITY (CHI. HPLC) 7				TD CONVI	ERTED MC	VITOR VA	LUES	Fi]"	E ATA	SAMI	PLEBOT	TLE NO	MBER
PRESSURE PRI, TEMP. SEC, TEMP SALINITY SAL, NUTR, CHI. HPLC							_			1	-	£.	8	-
		PRESS	URE	PRI. TEI		EC. TEMP		ALINITY	SALINIT					8
	_											ě:	\dashv	
											1			_
													_	1
							_					_	\dashv	_
	5 17												+	4
	5			 								žl .		_
	2 5	_										+	-	_
											+	+	\dashv	
10 5	L					ļ					1	54	-	_
11	5	1											_	_
15	#											-	_	¥5
	12				<u> </u>						\dashv		_	

VESSEL Alpha He	VESSEL Alpha Helix		00	百分	PROJECT & HX209	k LEG			,	STA	STATION DESIGNATION	SIGNAT	S S		
CON SC CAST		S CI	HON ETTENC	DATE III=		TIME	DRY	WET BURSSURE BURSSURE	MAINER STATE	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	COUD (amt) 3qYT ABHTABM	MEATHER MEATHORN DEPT		STA, NAME/ID	·
:	DEG N	ă	NIM	DAY	ΥR	HR MIN	(၁့)	(°C) (mb)		(deg) (m/s)	*	Œ			
1	35 50	Z	163 717 3 W 2 5 10 N 9 8	L 91,		2040	•					5	0	50	
	сто	TIMES		JD/TIME	ill.		DA	DATA LOCATION	NOI		REMARKS	S S			
TYPE	TYPE & SN SB911+	3911+ DATA ON	NO		<u> </u>	Tape/Dis	ape/Diskette ID		File Name/Header	der	SUB	Gn Situ Daud	hud	 -	
PRES	PRESS SN	50405 p5040 START DOWN	T DOWN						;		40	0 30 m	3		7
TEMPSN	SN	1390 AT DEPTH	:PTH		<u></u>			C			1				a at s
COND SN		, c501 AT SU	AT SURFACE)B					_	MAX. DEPTH =	= Hid:		٤	Fore Bean
TEMP SN		# 11.3.3 #1391 X PAR	AR XFI	XFLUOR	ChlAM		TRANSIA	XTRANSMISSOMETER		ned air l	Cleaned air bleed valve			· .	
so ₂	TRIP DEPTH		6	GENTED	MONITO MONITO	[₹	S	, ,	SAMPLE BOTTLE DATA	PLE : DATA	SAMI	SAMPLE BOTTLE NUMBER	ITLE N	JMBER	Plum (S)
<u> </u>		PRESSURE	PRI. TEMP.	MP.	SEC. TEMP	EMP	SAL	SALINITY	SALINITY	ΥL	SAL. NI	NUTR	H	HPLC Other	500
Ξ	3												\dashv	_	1
2	15		22	- G - ST				0.				 			Seac Mas
က	01	(S										_			10000 C
4	5					II							\dashv		
2	> /											-	\dashv	_	
9	7 1		-		ļ							\dashv	\dashv		
7	> \						Α					: ,			
8	ا ک	-										\dashv	=		
6								9.			\dashv	\dashv	\dashv		
9											-		_	-	
Ξ		,		7	¢	1					\dashv	_			
12						-					-	-	s Sy		_

VESSEL Alpha Helix		<u>. </u>		PROJE HX209	PROJECT & LEG HX209	LEG			n	STAT	STATION DESIGNATION	ESIGNATIC	NOIT!		
CON SC SC		:				TIME	DRY	EZZONE W	STATS A	WIN D SP	OUD (amt)	BOTTO M DEPT	0 =		
	LATITUDE	LONGI	TUDE	DATE JD=					SIV	ات	WE CC	Ŧ		STA. NAME/ID	Æ/ID
DEG MIN	MIN	DEG	MIN	CM YAC	뜻	HB MIN	ဉ	(3C)	(deg) (c	(m/s)	:	햙	_		
1445 706.6 2N	16.6 2N	1 43	4<-05WI		JUN98C	0149	•					65	+ <u>></u>		
CTD	į	TIMES	JD/TIME	ME	22	ja ja	DAI	DATA LOCATION	ioi	•	REMARKS	.¥. S.	9		
TYPE & SN SB911+	SB911+	DATA ON	-		<u> </u>	ape/Disl	Tape/Diskette ID	File N	File Name/Header	-e	2	Card Read	and		
PRESS SN	50405 p5040	50405 p5040 START DOWN	OWN	İ						1		¥0)			
TEMP SN	1390	11390 AT DEPTH			8					v.					
COND SN	501	AT SURFACE	ACE			0					MAX. DEPTH	EPTH:	u		ε
TEMP SN		X PAR	XFLUOR	Į.	ChIAM		RANSMI	XTRANSMISSOMETER		Cleaned air bleed valve	leed w	l ve			
POS TRIP DEPTH]	CTD CONVERTED MONITOR VALUES	ERTED I	ONITOR	· VALUE	S		SAMPLE BOTTLE DATA	LE DATA	SAM	SAMPLE BOTTLE NUMBER	OTTLE	NOMB	<u>E</u>
	PRESSURE	URE	PRI. TEMP.	Ę.	SEC. TEMP	A.	SAL	SALINITY	SALINITY	Ł	SAL.	NCTH	CHL	HPLG Other	Other
1 180													Ť		
2 181												M ₌	608	·	
	8												:3=		
						-									
5 5												_			
٧ 9															
				_											
8 5												_	AT.		
9															
10												_		***	
11	,					\dashv				0				1	
12						-						\dashv			

									,		*											,
	#E/ID						Ε		ES.	Other												
	STA. NAME/ID								SAMPLE BOTTLE NUMBER	HPLC Other						1			7			
NOITN 2	Lea	65					II	-	OTTLE	CHL.		i j		7		7		ì.	7			
SIGNA	MEATHER WEATHER M DEPT	<u>E</u> _9	RKS				MAX. DEP TH =	alve	PLEB	NUTR	613	818	5/1	216	515	614	513					
STATION DESIGNATION	ICCOUD (amt)	*	REMARKS				MAX. [Cleaned air bleed valve	SAN	SAL.		170 120										
STAT	WIN D SP D.	(m/s)		. <u>p</u>				ed air i	E DATA	۲												
		(deg)		/Head				Clean	SAMPLE BOTTLE DATA	SALINITY												٤
	STATS ABS VISIBILIY	(dm)	NOIL	File Name/Header			1	TER	8											_	_	
		<u>်)</u>	DATA LOCATION	E E	•			XTRANSMISSOMETER		ΤΤ						-			,			
		+	DATA	e D				NSMIS		SALINITY	,	-				,						
		MIN (°C)		Disketl			3)	XTRA	NES I						_					_		
& LEG	TIME (GMT)	H	1960	Tape/Diskette ID					R VAL	TEMP			- 4							į		
PROJECT & LEG HX209	l nh	× 8 8 × 8						ChlAM	CTD CONV≅RTED MONITOR VALUES	SEC. TEMP			Å						•			
PROJE HX209	l ul	DAY MO	: . <u> </u>			!		OR	TED V	· · ·			-									
	Ţ	M W	JD/T!ME					XFLUOR	ONV PEN	PRI. TEMP.												
	LONGITUDE	N V		z	NWOO.	표 王	FACE	,	CTD CT	<u>E</u>	,											
	Į.	DEG	TIMES	DATAON	TART	T DEP	AT SURFACE	XPAR														
			<u> </u>		50405 p5040 START DOWN	11390 АТ БЕРТН]	PRESSURE	,		- 20			4				- 1		
	LATITUDE	EG MIN ₹06.76 N		SB911	بي ق ا	Ξ	ซั	4 1133 11391		<u> </u>											-	
VESSEL Alpha Helix		PEG PSS7c	СТБ	TYPE & SN SB911+	PRESS SN	TEMP SN	NS Q	NS c	TRIP		19	.5	9	CE	36	20	10	0	0			
VESSEL Alpha He	CON SC CAST #	3		ΤΥΡ	PRE	TEM	COND SN	TEMP SN	S လ		-	2	က	4	2	9	7	8	6	10	11	12

Note Flanconstan in SSA CHEST, Cloparo Fils HX20930, ASC

x21 CDC9 Bean

1					۲	101		-			LOT O		MOITAINOIGO MOITATO	I ACITY		
빈	VESSEL Alpha Helix			=======================================	<u> </u>	PROJECT & LEG HX209	x LEG		j		5			JE 13		
1 ඊගგී	CAST *	ATITIDE	CNC.	ONGITIEDE	DATE	<u>ا</u>	TIME	DRY	WESSONE -	TATE A38	WIND D SI	O WING (SIMI) COUD (SIMI) TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	BOTTO M DEPT		STA. NAME/ID	G/G
1	B	MIN	DEG	MIN	DAY N	YR	HR MIN	\leftarrow			(deg) (m/s)		, -,			
⊢~	4657	4571115 7N1634		0.0 aw	-	8 6 N U C	0305		•				9	3		
ł	CTD	3	TIMES	ĝ	JD/TIME			DA	DATA LOCATION	NOL		REM/	REMARKS			
⋝	TYPE & SN SB911+		DATA ON	-	38	86	Tape/Diskette ID	kette ID		File Name/Header	ader		à			
ŭ	PRESS SN	50405 p5040	50405 p5040 START DOW	 		 i i					ŀ					
ΨÜ	LEMP SN	11390	ti 390 AT DEPTH	_ 			j		į				. 1			
Q	COND SN		AT SURFACE	ACE	<u>.</u>	1	Pol	ws				MAX.	MAX. DE TH	11		Ε
竝	Sign 1	4 1193 11391	XPAR		XFLUOR	ChlAM		TRANSM	XTRANSMISSOMETER	П	Cleaned air bleed valive	peed	valve			
POS	TRIP DEPTH		O	CTD CON	VERTEC:	CONVERTEE INONITOR VALUES	R VALUE	ပ္သ	-	SAN	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	ОТТСЕ	NUMB	ЕЯ
		PRESSURE	SURE	PRI. TEMP.	EMP.	SEC. TEMP	EMP	SAL	SALINITY	SAL	SALINITY	SAL	NUTR	CHL. HPLG Other	일	Other
I -	359										-		527			
N	05			ч	E #2								226		15	
က	40	Sic.			94								525			
4	30				- T - Y								524	1		
വ	8				47.4			iï					25			
၂ ဖ	01	.,.											522			
 ~	0												520	7		
∞											23.					
6																
읟															7	
Ξ,		1				5					es.					
12											·				1	

50 CS

į	70000				PROJECT & LEG	1 & 1 EG				STATE	STATION DESIGNATION	GNAT	NO NO	[
¥ \$	VESSEL Alpha Helix		ŘΪ		HX209]		CNCID	4	\neg			
8	Z		:: *	V		tē		-3TA		(tma)	(amt) FR						
SC	<u>را د</u>		98			TIME	DRY IVET	1223 12 A	QNIW WIND	O SP	36	M DEPT					
*		LATITUDE	LONC	LONGITUDE DA	- P		BULB	∃ \$	S DIRN	۵	LЦ	I	- 1	STA. NAME/ID	<u></u>		
ŀ	DEG MIN	N.W	DEG	MIN	Y MO YR	HR MIN	(၁ _၃)	Q E	(deg)	(m/s)		<u>E</u>		-		·	
1	157	475715.9 AN 163		35.02WI	1 U N 9 8	80354				7		009	3	4			
	CTD		TIMES	JD/TIME	ш	l _	DATA LOCATION	CATION	7		REMARKS	S					
<u> </u>	TYPE & SN SB911+	B911+	DATA ON	z	1870 P	Tape/Dig	Tape/Diskette ID F	ile Nan	File Name/Header		¥						
F.	PRESS SN	50403 p5040	SO40 START DOWN	NWOC	i		ia							-			
TEN	TEMP SN	11390	11390 AT DEPTH	£	į	72	N E		(#)	i							
<u> </u>	COND SN	c501	AT SURFACE	FACE	5		9		:	2	MAX. DEPTH	PTH=		E			
TEN	TEMP SN	11391	X PAR	X K-LUOR		ChIAM	XTRANSMISSOMETER	IETER	Cleaned air bleed valve	dair bi	sed val	, Ke	ď		- 		
SOS	TRIP DEPTH			10	TED MONIT	OR VALUE	<u> </u> 		SAMPLE BOTTLE DATA	TA	SAM	LE BO	TLEN	SAMPLE BOTTLE NUMBER	(4)		
	95							100					25	-	<u> </u>	Ti.	
130		PRESSURE	URE	PRI. TEMP.		SEC. TEMP	SALIRITY		SALINITY		SAL. NI		용	HPLC Other	6		
1	56			2				-		\dashv	1	233	4	<u> </u>	_		
2	60	10						_		-	Ϋ́	25		+			
က	30	8									12	531	-	-	T		
4	8							_			S	530	-	\dashv	· T	70	
5	01	@									2	525	-	+			
ဖ	0										7	528		_	10		
7							!	_		_	\dashv	\dashv	+	-	_		
8							=		+0 +	+	\dashv	\dashv	\dashv	_	1		
6					_			+			+	-	+	\downarrow			
10		÷	1		36,			+			+	\dashv	-	+			
11	· **	,						+		+	+	+	+	+	_		
12						å		-			\dashv	-	4	-	_		

1.32

90 0			V	2 A	B 35	3		を 22 25 25	Ole F	6.1 #1					(0					
PG	STATION DESIGNATION	BOTTO PEPT HE STA. NAME/ID (m)	REMARKS			MAX. DEPTH = m	ed valve	SAMPLE BOTTLE NUMBER	SAL NUTR, CHL. HPLC Other	539	538	1 12	535	534 ~						
y.	STATIO	MIN D SPODE WIND D SPODE CLOSE (mb) (deg) (m/s)		File Name/Header	(O)	MA	Cleaned air ble	SAMPLE BOTTLE DATA	SALINITY SA			1								
· · · · · · · · · · · · · · · · · · ·	9	DRY WET BULB BULB (°C)	- PAT	Tape/Diskette ID File			XTRANSMISSOMETER	<u> ILUES</u>	SALINTY	ti:	_				ļ					-
	PROJECT & LEG HX209	Ϋ́B	8 6 N O F	j		S 1	X FLUOR CHIAM	CTD CON VERTED MONITOR VALUES	EMP. SEC. TEMP									90		
	20	LONGITUDE	33.4	DATA ON	t1390 AT DEPTH	OI AT SURFACE	XPAR		PRESSURE PRI. TEMP.	\vdash	î						, E	1		_
	VESSEL. Alpha Helix	CON SC CAST # LATITUDE	1485718.2	68S 48		1	# /193	교표		1 53	2 40	3 30	50	7,110	7	66	6	10	-	12
			ac dies					E (44)	e 		61			\$ ₀₀	æ	*:				•

OF		e e e e e e e e e e e e e e e e e e e		es es	Š	ň.			83	2)	34		* 8					3					
PG	_	ME/ID		_				٤		BER	Other		•						-				7
#8		STA. NAME/ID	3							SAMPLE BOTTLE NUMBER	HPLO									,			
	VATION		514C				×	#		ВОТТ	GH.	_		2			7						2
	DESIGN	MEATHER H DEPT	口	REMARKS	G			MAX. DEPTH	valve	WAPLE	NUTR.		243	25	24.	1/2	240				1		
12	STATION DESIGNATION	LYPE CLOUD (Amt)	\blacksquare	REM				MAX	Cleaned air bleed valve		SAL.	20		_		1							
	ST		(deg) (m/s)		ader	ı	1		aned ai	SAMPLE TTLE DATA	SALINITY		1										
= 9		VISIBILITY OF \$	9	¥	File Name/Header	24	*** ****			SAMPLE BOTTLE DATA	SALI				:		3					,	
		PHESSURE	<u>E</u>	DATA LOCATION	File Na	_	:		METER			-ne			1	7			\dagger	+	\dagger	1	+
and the contract of the contra				ATA E.C		1	1		MISSO	r/	SALINITY		i	ĺ	İ		Î	İ				33	
		- w		2	skette l	102			XTHANSMISSOMETER	မ္သ	<u> </u>							1					÷
th co-state	LEG	TIME (GMT)	HR MIN		Tape/Diskette ID				X _	CTD CON FERTED MONITOR VALUES	TEMP							1					7
1	PROJECT & LEG HX209		व्या 🔊		<u> </u>		_		ChIAM	NITOR	SEC. TE				1								
w_	PROJE HX209	DATE: JD=	> OM U	ш	į	j			Ę	TED NIC	_	Н		-	\dashv	4		-	4	-	-	+	
1. 5 .22 20			PW	JD/TIME			,	1	XFLUOR	ON VER	PRI. TEMP.						6	8					
		LONGITUDE	MIN 0		z z	DOWN.	¥.	FACE	<u>«</u>	CTOC	E E												
>		LON	DEG MIN DAY	TIMES	DATAON	START	AT DEPTH	AT SURFACE	XPAR		E. C.		3 - T										
		JOE .	Z C			SCHOOL START DOWN	11390		11391	4	PRESSURE												
5	<u></u>	LATITUDE	HOSTADO.STN	88 7	A SB91					T E		0	2	C								_	-
TC-	VESSEL Aloha Helix	CAST	46 S	CTD	TYPE & SN 58911+	PRESS SN	TEMP SN	COND SN	TEMP SN	S TRIP DEPTH		5	4	_	000	-	0						
\cap	2 5	0 0			<u> </u>	<u> </u>	=	<u> </u>	쁘	8	5.17	L	7	က	4	5	9		80	6	위	티	12