		Е		Nis.	O	-	2	m	4	2	9	_	80	6	10	=	12		
STATION NO.   H.	BOTTOM DEPTH STA. NAME/ID (m)	<b>SeT</b> =7.5 MAX DEPTH= 14Km	Depty Changes 1675 Recorder Initials: 2M	Comments		Messeb up Oxy CHEUS											le ce Mechal		
	WIND SPD.	-ct	TA CH			24		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								5	Da Sand		
100	WIND DIRN.	SFC/Bottom Temp														DIV	90		
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CTD FileName:	DRY BULB		BOT (Canp ~7.5°C Musy Wave Dichter - Botron		GFF Dup Vol			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 2 3 3 4 6 6 6							Two	P	
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AQ 2301	LONGITUDE		le 8 54.	FLUOR S/N	SBE43-0xy (prime)	SBE43-Oxy (sec)	Transmissometer	OZ Tmp Senson No			Hvdro Team-PME													-		
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CTD FileName	DRY BULB		13					GFF Dup Vol												18		
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CRUISE ID	LONGIT LONGIT	FLUOR S/N	SBE43-Oxy (sec)	PAR S/N O2 Tmp Senson No	ı		Hydro Team-PMEL	Nut.Btl C	74	,	*	25		36		27		28	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
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CTD FileName:	DRY BULB	9								GFF Dup Vol			To			1 1-	4		je -					
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	aciici															1-1-1

VESSEL		CRUISE ID		PROJECT & LEG		CTD File	CTD FileName:				STATION NO.	一世紀	
CONSC CAST # DEG O 1 O 5/C SBE 9+ PRESS SN PRI TEMP SN PRI COND SN SEC COND SN	LATITUDE DEG MIN BY SS SN TEMP SN COND SN COND SN	LONGITUDE DEG MIN  Lett Ltq RLUOR S/N SBE43-0xy (sec) Transmissometer Transmissometer O2 Tmp Senson No	20 20 4/8	DAY MO XR	TIME (GMT) HR MIN AO DE WEATHER OBS: REMARKS:	CC)	HZH (96)	Pressure (mb)	b) (deg) (the strength of the	WIND B B (kts)	(m) (m) RSST REST	PTH STA. NAME/ID  TO TO W #  MAX. DEPTH = 66 m  Recorder Initials:	D 7 E
DEPTH	H Rosette Notes	Hydro Team-PMEL		Chloro				POC		_	Comments		Nis
DESIRED	ED SALT	Nut.Btl 02-Bt	02-Btl.No DIC/Alk	GFF Vol >1	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml					9
801	>		70					W					<u> </u>
BET	7	46											2
50		47		281				i i					m
40	/	48		282				-					4
30	>	49		285									2
30	/	50		781									9
0	/ Chi Max							ZZ ZZ					_
10	>	2(		283			1		0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				80
0	\	52		283									6
0	\							Para de					10
Q	>	222	ď		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						1
													12
												0 0 0 1 1 1 2 2 2 0 0	
	Inline												_

A FOORF		CAUSE ID			PROJECT & LEG	<u></u> 9	CID	CTD FileName:				STATION NO.	一土	
CONSC CAST # DEG O     5   6   SBE 9+ PRESS SN PRI TEMP SN PRI COND SN SEC COND SN	DEG MIN SN WP SN ND SN ND SN	DEG LLUOR SBE 43- SBE 43- Transm Transm PAR S/	LONGITUDE MIN MIN S/N S/N Oxy (sec) Sissometer N N Senson No	8 × × × × × × × × × × × × × × × × × × ×	S 3	TIME (GMT)  TR MIN  WEATHER OBS.  REMARKS:		(%) (%) (%) (%) (%) (%) (%)	Pressure (mb)  SFC/Bo  SFC/Bo  SFC/Bo  SFC/Bo	WIND W DIRN. Solution Temp. Sector (ACO) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	WIND SPD. BG	Co   (4 ) 'T   First   (2)   (2)   (2)   (3)   (4)	PTH STA. NAME/ID  NAX. DEPTH = 12 PK   12 PK	NAME/ID  TO M G  SALIT
Nis DEPTH	Rosette Notes	Hydro Team-PMEL	am-PMEL		Chloro				POC			Comments		Nis
No. DESIRED	D SALT	Nut.Btl	02-Btl.No DIC/Alk	IC/Alk	GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	lm 900 lc					Š.
301	>		272	28			1 1 2 3 3 0 0 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 1 1 1 1				_
Bot	>	53												2
50	\	54			120									m
40	>	53			282						Ž P	LEAKY @ BOTTOM	4	4
30	\	56			288									٠.
6 20	>	57			180									9
0	/ CAI MAX													
10	>	200			283							3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 2 6 6 6 1	000
6	210	5 59			283									0
0	>								并及			***************************************		2
<i>Q</i>	>		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	=
12		2												12
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								-344			<u> </u>
	Inline								000000000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		-  -

-+	STA. NAME/ID TH = Cath m TH = Cath m als:	Nis	No	-	2	m	4	100	C		00	σ	10	-1	12		
STATION NO.	(m) (m) (上名 (MAX. DEPTH Recorder Initials:	Comments															
	WIND SPD.									玉			KA K			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
C10 Pt0	WIND DIRN. (mb) (deg) SFC/Bottom Temp	POC	500 ml										*NA				
CTD FileName:	PH (%)		>10 dup vol						6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0			
CTDF	DRY BULB (*C)		GFF Dup Vol														
	TIME (GMT) HR MIN WEATHER OBS: REMARKS:		>10 Large Vol													0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
PROJECT & LEG	MO M	Chloro	GFF Vol >1			136	285	285	188		283	283					
Íc	DAY WO		DIC/AIK	29										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
469301		Hydro Team-PMEL	02-Btl.No DIC/Alk		0		7	~	4		1.0			37			
CRUISE ID	DEG   DEG	Hydro T	T Nut.Btl		09	7	63	63	19		45	TAT					
حم ابان م	LATITUDE MIN	Rosette Notes	SALT		1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\	_		~ Chi Max							Inline
VESSEL	CONSC CAST # SBE 9+ PRESS SN PRESS SN PRI TEMP SN SEC COND SN SEC COND SN	рертн	DESIRED	Bot	130T	50	40	30	20	0)	10	۵	٥	0			
 ✓E	88 0	Nis	ટ્ર	-	2	m	4	ιν	9	7	ω	6	10	7	12		

					-		_				47	9	1+1	
CONSC CAST # DEC	DEG MIN S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	DEG N C C C C C C C C C C C C C C C C C C	-		A A B B B B B B B B B B B B B B B B B B		(°C)	(%) RH (%) SAD 9	WIND (mb) (deg) SFC/Bottom Temp	WIND WIND BOTTO   Chessure DIRN. SPD. BOTTO   Cheg)   Ckts   Ck	BOTTOM DEPTH (m) (m) (S.S.T. (M. E. (	DEPTH STA	TH STA. NAME/ID  69 76 M 6  MAX. DEPTH = 64 m  85	Q E
SC COMP	NS Q	02 Tm;	O2 Tmp Senson No									Recorder Initials:	ials:	
Nis DEPTH	Rosette Notes	Hydro	ä		Chloro				POC		Com	Comments		Nis
No. DESIRED		SALT Nut.Btl	I 02-Btl.No DiC/Alk	DIC/AIK	GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml					O
132	>			30										-
2 307		101	2											2
3 50	\	891			1861					23				m
4 40	\	9	6		787									4
5 30		7_	9		745									5
9	\	4 7/	_											9
7 20	1 Chi Max	^ ×			181					1200				_
<i>8</i>	>	72	7		143									
9	\	23	3											6
0 0					163				7	48.7				9
9	>		33							8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 6 6 8 8 8 8 8 8 8	9 4 9 8 0 0 0 1 1 1 1		=
12														12
						0 0 0 0 0 0 0 0 0 0 0	3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						9)	
	Inline													_

No.

ANILA	CRUISE ID	AQ330	/	PROJECT & LEG		1 1 1 1 1 1	CTD FileName:				STATION NO.		
DEG MIN	7 C 7 C 6 C	LONGITUDE MIN MIN 43	\\ \alpha \\ \d\ \\ \d\ \\ \d\ \\ \d\ \\ \d\ \\ \	MO 2	TIME (GMT)	DRY BULB	RH (%)	Pressure (mb)	WIND DIRN.	WIND SPD. E	(m)	STA. NAME/	5 4
		61			WEATHER OBS:	33		SFC/Bot	SFC/Bottom Temp.	m of	3.61°C MAX	рертн= <b>67</b>	Ε
PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN	SBE43-0x Transmiss PAR S/N 02 Tmp S	SBE43-Oxy (sec) Transmissometer PAR S/N O2 Tmp Senson No											
											Records	Recorder Initials:	
Rosette Notes	Hydro T	ä		Chloro				POC			Comments		Nis
DESIRED	SALT Nut.Btl			GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml				_	No.
7		264	306			9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3 3 0 0 0 0 c t t t t t t t t t t t t t t t						-
>	74												2
50 /	35	***************************************		187					2 2 4 6 8 8 8			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3
>	76			282									4
>	77	2		285	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				2
\	28	<b>\$</b>		781				5					9
/									ALEX		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7
>	79			283									00
>	209 80			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								50 11 8	0
1	-			283									10
>	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 II	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4/6%	1			=
0													12
		# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Inline										-			

				_			  -	-						ĪĒ
CONSC CAST #	LATITUDE	FONGLINDE	Inde			TIME (GMT)	DRY BULB	₽	Pressure	WIND	WIND	BOTTOM DEPTH	STA NAME/ID	
lo	- N	DEG 7		432 A 4 U 6	> 78	00	-	(%)	(mb)			(E)		1 1 2
SBE 9+						WEATHER OBS:	Si	-	SFC/Bo	SFC/Bottom Temp.		3-73 °C MAX	MAX. DEPTH = Lot m	آ ـ ا
PRESS SN PRI TEMP SN	NS de	SBE43-Oxy (prime)	rime)			REMARKS:						Sovan	gotton	-
SEC TEMP SN	NP SN	Transmissometer	 									**************************************		:
PRI COND SN	NS OF	PAR S/N				4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					
EC CO!	SEC COND SN	OZ Tmp Senson No	No No								9 9 9 9 6 6 6			
					-			•	vanadamanagapanananagapapa					
												Recorder Initials:	Initials:	
DEPTH	H Rosette Notes	Hydro Team-PMEL	MEL		Chloro				POC			Comments	Nis	· r
DESIRED	ED	Nut.Btl 02	02-Btl.No DIC/Alk	C/Alk	-	>10 Large Vol	GFF Dup Vol	>10 dup vol	lm 500 ml				No.	
Bot	7,			3										1
Bot	1	08	3 3 4 0 0 0 0 0						1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				2	T
50	>	63			186								m	
40	1	2			787						1		4	Ī
30	1	48			285								5	T
20	Old max		9 0 0 0 E E E E E E E E E E E E E E E E		781				3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				9	Т
20	1 / C	-								五分				
10	>	26			283			1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1			T
0	>	87			283								6	Т
0	,	1 0	266										10	_
0	>					9				AA				
			1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										12	
														ı
	acilal													T

	STA. NAME/ID	9	E 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	## ## ## ## ## ## ## ## ## ## ## ## ##			Nis	No	-	2	m	4	12	9	7	ω	6	10	=	12		_
STIPHI	ВОТТОМ ВЕРТН	(m)	MAX DEPTH=	10.4°C Sweenes Borrans				Recorder Initials:	Comments															
	ND WIND	(deg) (kts)	imp.	7AC6		***************************************	70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																	
_	WIND Ire DIRN.		SFC/Bottom Temp.	2 5 JR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	000000000000000000000000000000000000000		POC	TE .						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1				
	Pressure	(mp)	. I	10.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		B		DA.	Jm 900 ml							*	y		1 8 8 9 1 1				
	RH	(%)				6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				>10 dup vol	0 0 0 1 1						DIMED DIMED	~			DIVERD			
	DRY BULB	(0.)		REMARKS:		6 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				GFF Dup Vol														
	TIME (GMT)	HR MIN 0	WEATHER OBS:	MARKS:		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				>10 Large Vol	1 1 3 3 3 0 0 0										1 1 1 2 3 3 3 1 0 0			
	F	£ 6	WE	REI							0									* 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				10/1
		§ 2							Chloro	GFF Vol			78	282	282	781		285		285				
30(		7 H 8 2 0 4					6			02-Btl.No DIC/Alk	32										0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
40/1×0	LONGITUDE	₩ <b>№</b>	2	SBE43-Oxy (prime)	SBE43-UXy (sec) Transmissometer	PAR S/N O2 Tmp Senson No			Hydro Team-PMEL		200			0		~			•					
		7 Dec 7 5 M	FLUOR S/N	SBE43-0	Transmis	PAR S/N	1		Hydro T	Nut.Btl		00	89	9	91	93		93	20					
		80 N					]			SALT		203					MAK							
	LATITUDE	3 C							Rosette Notes			\	>	1	\		/ 2ml		/	/	1			Inline
-	SC ⊤#	1 PEC	SBE 9+	PRESS SN	SEC TEMP SN	PRI COND SN SEC COND SN			DEPTH R	DESIRED	807	BOT	50	40	30	20	0)	10	0	0	0			
	CONSC CAST #	0	S			N IS			Nis	No.	-	2	ю	4	2	9	7	ω	6	10	-	12		

	STA. NAME/ID	₽	6						XX	Nis	2	-	2	ж	4	2	9		ω	6	/01	1	12	
丰	STA. N	M 02	EPTH=						Recorder Initials:							:								
2,20	ВОТТОМ ВЕРТН	(E)	MAX	Bot = 3,68 °C				=	Recorde	Comments										-				*******************
	WIND SPD.	(kts)		Bot															2 2 5 6 6 8					<u> </u>
Krak	WIND DIRN.	(deg)	SFC/Bottom Temp.		2	***************************************																1 0 0 0 0		3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Ctd OIT. hux	Pressure	(qm)	SFC/Bo			***************************************				POC	500 ml								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
5	퓬	(%)			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						>10 dup vol							AX AX			产多			
	DRY BULB	(2)		000000000000000000000000000000000000000		***************************************					GFF Dup Vol >											0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	TIME (GMT)	HR MIN	WEATHER OBS:	REMARKS:		hadaintakanatakanatayayana					>10 Large Vol													
		DAY MO YR						-		Chloro	GFF Vol >1			7881	1256	785	182		283	783				
	1			-4		! !					Alk	33										0 0 1 1 0 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
105,504	LONGITUDE	MIN & T		(prime)	(sec)	Terer L	oN nost			n-PMEL	02-Btl.No DIC/Alk											276		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
\$	TON	DEG 83 6	FLUOR S/N	SBE43-0xy (prime)	SBE43-0xy (sec)	PAR S/N	O2 Tmp Senson No			Hydro Team-PMEL	Nut.Btl		95	20	97	86	99	•	(00)	101				
		9≥ 0 0									SALT			1 1 2 2 3 3 0			$\leftarrow$	メ	$\rightarrow$			0 0 0 0 0 0		
Agura	LATITUDE	₩.					z			Rosette Notes		1	>		1		\	I AMI MAK		>				
¥	CONSC CAST #	70	SBE 9+	PRESS SN	PRI TEMP SN	PRI COND SN	SEC COND SN			ОЕРТН	DESIRED	1305	307	S	40	30	20	20	10	0	0	0		
	88	0								N. Si	ģ	-	2	ю	4	S	9	7	80	თ	9	-	12	

												,		21 H		
CONSC CAST #	DEG MIN	W <sub>z</sub>	LONGITUDE MIN	UDE WIN	≥ 0 M ±≥	% 3 2 2 2 2	TIME (C		DRY BULB	RH (%)	Pressure (mb)	WIND W DIRN. (deg)	WIND B SPD. B (kts)	ВОТТОМ ВЕРТН	STA. NAME/ID	ME/ID
SBE 9+ PRESS SN	z	FLUC SBE4	FLUOR S/N SBE43-Oxy (prime)	(e)			WEATHER OBS: REMARKS:	BS:	SURE = 10,130	10,13		SFC/Bottom Temp.	3,39	MAX. DEPTH =	MAX. DEPTH = 6	E .
PRI TEMP SN	NS d	SBE <sup>2</sup>	SBE43-Oxy (sec) Transmissometer													
PRI COND SN SEC COND SN	NS O	PAR S/N	PAR S/N O2 Tmp Senson No	     			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
									-		uppopulation and planting and			-		
														Recor	Recorder initials:	
Nis DEPTH	Rosette Notes	Hydr	Hydro Team-PMEL	EL		Chloro					POC			Comments		Nis
No. DESIRED		SALT Nut.Btl			C/Alk	GFF Vol	>10 Large Vol	GFF Dup Vol		>10 dup vol	500 ml					S <sub>O</sub>
1 801	>		28	282 34	34,41,42			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								-
2 Bot	\	204 1c	102													2
3 50	>	-	103 28	287	35	781										m
4	>	1		395	36	787		i i			6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1			4
30	/	7	105 3	325	37	587										ιν
9	Ohl Max		106 3	308	M	281							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2
7 26	/	Chil. Max							24	さるころ						_
8 10	>		107 3	372	39	583			5 0 0 1		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1 1 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		00
6	/		88	315		283										6
10	\ '								Ď	圣女子					1	2
2				LA.	40				3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1			=
12									+							12
									0 0 0 0 0	1 1 1 3 3 0 0						
	1													B = 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		L

DEG CO					PROJECT & LEG	FG	2	C I D FileName:			SIA W	Station No.	
20 DEG													
94 57 G	LATITUDE		LONGITUDE			TIME (GMT)	DRY BULB	퓬	Pressure	WIND WII	WIND BOTTOM DEPTH		STA. NAME/ID
\$ 54 5	NIW	DEG	NW.	DAY	I I.	YR HR MIN	(°C)	(%)	(mb)	$\vdash$		H	
SBE 9+	4.71	1 1 N	43	77030AUG	140G2	32028	•		*******	*********		Leg MS	
		FLUOR S/N	N/S >			WEATHER OBS:	iS:		SFC/Bot	SFC/Bottom Temp.		7	m 70
PRESS SN		SBE4:	SBE43-Oxy (prime)			REMARKS:		***************************************		2	REMARKS: (32°C)	ے د د	
SEC TEMP SN		Transr	SBE43-UXY (Sec)  Transmissometer				Paralli Lani		-:∑	1. A76.0	Cas RT	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PRI COND SN		PAR S/N				- Anna Anna Anna Anna Anna Anna Anna Ann	אוכות	1		3450	C050 1010		-
SEC COND SN		O2 Tn	O2 Tmp Senson No			9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		- 19 19 19 19 19 19 19 19 19 19 19 19 19	***************************************	***************************************			
						-		-					
												Recorder Initials:	
DEPTH Rosette Notes	Notes	Hydro	Hydro Team-PMEL		Chloro				POC		Comr	Comments	Nis
DESIRED	SALT	LT Nut.Btl		02-Btl.No DIC/Alk	GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml				g Z
Rot /			358	3h'Ah' 6h									-
BoT /		109							1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				. ~
> 05	3 d d d d d d d d d d d d d d d d d d d	911	0 227	46	187								m
40 /		1/1		47	785			5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				3	4
30 1			17 a41	₩ 7	945								- 1
201		_	3 243	t 1 1 1	281								2 (4
101										DNA, DA			
101			4 243	50	283						5 5 7 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		0
10	R	205 11	15		283								0 0
> 0										DWALON			5
10			311	15						5			7
										\$ H 4 H 5 H 6 H 6 H 6 H 6 H 6 H 6 H 6 H 6 H 6			
													7
Inline													-

	Q E			Nis	2	-	2	3	4	2	9	7	σ0	6	0	1	12		_
	H STA. NAME/ID  71 MS E  MAX DEPTH = 66 7		Initials:			Filte													
STATION NO.	(m)	,	Recorder Initials:	Comments		BUTTLE DIDMET F				3 3 9									3.6
	WIND SPD. (kts)					80						1							
		3								\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		1							
	WIND Pressure DIRN. (mb) (deg) SFC/Bottom Temp.	2062 2060		POC	500 ml					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Name:	HH (%)	700x			>10 dup vol														
CTD FileName:	ORY BULB	182			GFF Dup Vol					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		3 3 3 0 0 0 0 1 1		0 0 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	TIME (GMT) HR MIN COS [ 44 WEATHER OBS:				>10 Large Vol	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			á	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PROJECT & LEG	© 0 0 0 0 0 0 0			Chloro	GFF Vol >10			189	3	S	19,	18			185				
PRC	á m									4	500	<u>_</u>			23				
	0>				02-Btl.No DIC/Alk	20	N	1 1 1 1 1 1 1 1 1 0									4		
,	LONGITUDE DEG MIN 71 1 5 FLUOR S/N SBE43-0xy (prime)	SBE43-Oxy (sec) Transmissometer PAR S/N O2 Tmp Senson No		Hydro Team-PMEL	02-Bt	25.50	183		300	-				4					
CRUISE ID	LON DEG	SBE43-Oxy (sec) Transmissometer PAR S/N O2 Tmp Senson N		Hydro Te	Nut.Btl		37	117	1/8	119	120		121	123					
0	ze z				SALT			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		000000000000000000000000000000000000000		1				3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
	LATITUDE MIN			Rosette Notes															Inline
	NNSC ST # DEG SB 9+ PRESS SN	PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN		DEРТН Ro	DESIRED	Bot	Bot	50	40	30	20 0	0	01	0	9	0			
VESSEL	CONSC CAST #			Nis	<u> </u>	-	2	3	4	2	9	7	8	6	10	=	12		

	STA. NAME/ID TH = 68 m TH = 68 m	Nis	S.	-	2	က	4	20	9	7	ω	o	10	11	12		-
_				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
STATION NO.	(m)	Comments										E.					
	WIND SPD.															8	_
	WIND WIND DIRN. b) (deg) SFC/Bottom Temp.													9 1 1 1 1 1 0 0		1	
	RY BULB RH Pressure DIRA (*C) (%) (mb) (dec (*C) ** ** ** ** ** ** ** ** ** ** ** ** **	POC	500 ml							ga-Sira i				8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
CTD FileName:	(%) (%) H MS 13		>10 dup vol								ò			AICK		3 0 1 1 1 1 1 1 1 1 1	
CTD F	CC) CSCCT		GFF Dup Vol											,			
	TIME (GMT)  HR MIN  O 4 6 3  WEATHER OBS: REMARKS:		>10 Large Vol													31	
& LEG	× 0				100		7	2,			~	2			-		
PROJECT & LEG	§ 3	Chloro	GFF Vol			R	78	786		28	282	787					
	<u>a</u> <u>w</u> <u>w</u>		JC/Alk	0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4 0 4		1 1 1 1 1 1 1 1		0 0 0 0 0 0 0						8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	LONGITUDE MIN S/N S/N Oxy (prime) Oxy (sec) Issometer N N Senson No	PMEL	02-Btl.No DIC/Alk										784				
CRUISE ID	LONGITUDE MIN 7   2 q FLUOR S/N SBE43-0xy (prime) SBE43-0xy (sec) Transmissometer PAR S/N O2 Tmp Senson No	Hydro Team-PMEL	Nut.Btl C		123	124	125	120	127		123	139					
Ō	42		SALT			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								0 0 0 0 0 0			
3	LATITUDE MIN	Rosette Notes							/		,						Inline
	ST #  DEG  SI   SF    SE 9+  PRESS SN  PRI TEMP SN  SEC TEMP SN  PRI COND SN  SEC COND SN	<b>DEPTH</b> R	DESIRED	807	30/	50	40	200	30 ~	200	0	0	0	0			
VESSEL	CONSC CAST # SBE 9 PRICE SEC T	Nis	S O	-	2	В	4	5	9		ω	6	0	E	12		_

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CONSC CAST # DEG O O O O O O O O O O O O O O O O O O O	DEG MIN N N N N N N N N N N N N N N N N N N	LONGITUDE DEG MIN TO N ( 7 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LONGITUDE  MIN  MIN  S/N  SxN  Oxy (prime)  Oxy (sec)  issometer  N  S Canson No	DAY MO	TIME (GMT)  7 2 0 7 1 8  WEATHER OBS.  REMARKS:	E 888 888 888 888 888 888 888 888 888 8	(°C)	HH (%)	WIND Pressure DIRN. (mb) (deg) SFC/Bottom Temp	\$ 0 E	WIND 89D. BG	(ts) (m) STA. NAME/ID MAX. DEPTH = 68 m  -0.78 C. B.S. T. Z. A. M. A. M.	PTH STA. NAME/ID T3 M5 W  MAX. DEPTH = 68 P	GI/Z
Nis DEPTH	H Rosette Notes	Hydro Team-PMEL	am-PMEL	Chloro					POC			Comments		Nis
No. DESIRED		SALT Nut.Btl	02-Btl.No DIC/Alk	Alk GFF Vol	ol >10 Large Vol		GFF Dup Vol >10	>10 dup vol	500 ml					No.
Bot	7		290											-
30(	1	130												2
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5 46	\										Haim	ADTUSTED BOTHS	Bornss	5
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LATITUDE DEG MIN	Sz Sz	LONGTUDE DEG MIN	NIIN DAY	A MO	TIME (GMT) HR MIN	DRY BULB	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	(т)	H STA. NAME/ID	
SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN		FLUOR S/N SBE43-Oxy (prime) SBE43-Oxy (sec) Transmissometer	me)		WEATHER OBS: REMARKS:			SFC/Bot	SFC/Bottom Temp.	1.120	SFC/Bottom Temp.  — 1,12°C (BGT/RDA)  — 7,4 For To	ртн= <b>.57</b> m	1 1 1 1 1
SEC COND SN		PAR S/N	No No								Recorder Initials:	itials:	
DEPTH Rosette Notes		Hydro Team-PMEL	// WEL	Chloro				POC			Comments	Nis	
DESIRED	SALT	Nut.Btl 02-	02-Btl.No DIC/Alk	GFF Vol >	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml				No.	- 1
BOT 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0						-	
307 /		137										2	
Sp /		138		1881								m	T
40 /		139		787				1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		5 6 5 5 6		4	т
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10 1		142		783	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 0 0 0 0 0 0 0 0 0 0			80	
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1 0		<del>                                     </del>	794									10	
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1H £2 ts	BOTTOM DEPTH STA NAMEZID	2	HIAN NAM		CHARELY'S MODELY BSV	-0.54 °C BGTT0			Recorder Initials:	Comments															
	WIND WIND	<del>                                     </del>	SFC/Bottom Temp.		2. B54		· · · · · · · · · · · · · · · · · · ·					1	\$2.5¢		DWA DA	4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						3 3 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1
	Pressure	(mp)			Mose					204	500 ml	0 0 0 0 0 0 0									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 2 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	꿆	(%)			118e245		## 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				>10 dup vol												0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	DRY BULB	(i)			Ž	-				4	GFF Dup Vol	3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5													
	TIME (GMT)	H G	֓֞֞֟֝֟֟ ֓	REMARKS:	***************************************		**************************************	· · · · · · · · · · · · · · · · · · ·			>10 Large Vol														
		WO V	5								6FF VO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
	TONGLIDE	<i>7</i>	Μ.	(prime)	(sec)	meter	nson No			M-PMEL	UZ-Bti.No DIC/AIK														
	07	DEG		SBE43-Oxy (prime)	SBE43-0xy (sec)	Transmissometer	02 Tmp Senson No			Hydro I eam-PMEL	Nut.Btl														
ľ		7 7	z							1	SALI	94	25	ADA								9			
	LATITUDE	.υ -	2		7	2 7	Z.			Rosette Notes		1 Children	- On my	1 CEL >	-	1	/								ocilo
	CONSC CAST #			PRESS SN	PRI TEMP SN	SEC TEMP SN	SEC COND SN			DEPTH	DESKED	23	23	50	0	0	0							8	
	88		]							S S	ġ Į	-	2	3	4	2	9	7	8	6	10	11	12		_

	רואחאב וח			STATION NO.	
CONSC CAST # DEG MIN	LONGITUDE MIN DEG MIN ES S. 1 6 3 C	DAY MO YR HR MIN (°C)  CASSERA30618	WIND   WIND	WIND SPD. BOTTOM DEPTH STA. NAME/ID (kts) (m) 37 M I #	
SBE 9+ PRESS SN	FLUOR S/N SBE43-0xy (prime)	WEATHER OBS:		SFC/Bottom Temp.  (b. 79 Suv(t. ) 1807 = (b. 79	
PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN	SBE43-Oxy (sec) Transmissometer PAR S/N O2 Tmp Senson No	4:1	8 1	ACON	
					<u> </u>
DEPTH Rosette Notes	Hydro Team-PMEL	Chloro	POC	Comments	100
	SALT Nut.Btl   02-Btl.No   DIC/Alk	>10 Large Vol GFF Dup Vol	>10 dup vol 500 ml		- 2
Bot	ואח	%5 %5			Г
807	<u>u</u>			2	
20 /	24				
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\				5	Ī
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CRUSE D   PROJECT & LEG   CTD Flebame:	H	II	73 =		велого		2 2	-	2	m	4	Ŋ	9	7	ω	6	10	-	12		
CRUSE D   PROJECT & LEG   CTD Flebame:		0	MAX DEPTH=	A 2770 Si		Recorder Initials:															
COLOR   COLO			Temp.	X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			<u> </u>						of Dat	¥ \$		٠	支が				
CRUSE D   PROCET 8 LEG   CTD Flebume   CTD			SFC/Bottom			3	500 ml						AVT.	Z			()	# # # # # # # # # # # # # # # # # # #			
## LONGTIDE   The CGAT)   ORY BLLB	eName:						>10 dup vol											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
## LATTUDE LONGTUDE   PROJECT & LEG   ## LONGTUDE   PROJECT & LEG   ## LONGTUDE   PROJECT & LEG   ## PEG   MRN   DAY   MO   TR   ## PEG   MRN   DAY   MO   TR   ## PEW SIN   SEE-3-ON (prime)   PAR SIN   ## PEW SIN   ## PEW SIN   PAR SIN   ## PEW SIN   ##	CTD File	DRY BULB		257	-									0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 1 2 2 3 4 5 6 6 7	
## LATITUDE LONGITUDE   PROJECT & LEG   PROJECT & LEG   LANGITUDE   LONGITUDE   LONGITUDE		TIME (GMT) HR MIN	WEATHER OBS:																	-	
CRUSE ID	ROJECT & LEG	× 00 × 00 × 00 × 00 × 00 × 00 × 00 × 0				- Indiana	_			187	262	725	281		283	283					
# LATITUDE CRUISE ID  # LATITUDE LON  B	<u>a.</u>	%					MC/Alk	52										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
# DEG NAIN DEG CRUISE ID  # DEG NAIN DEG    C   C   C   C   C   C   C   C		Ⅱ □□ ♥□ ♥□	y (prime)	y (sec) ometer enson No		DMCI	02-Btl.No D											344			-
# LATITUDE # DEG MIN   HINE   DEG MIN   HINE   SS SN   TEMP SN   COND SN   C	CRUISE ID	1 10	FLUOR S/I	SBE43-0x Transmiss PAR S/N		F Control of	Nut.Btl		8479	149	150	151	157	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	153	154					
# COND SN TEMP SN TEMP SN COND		MIN MIN				Po Notes			30					Ph Mak	Chimor						line
VESSEI O CONSCIENTIFICATION OF THE SECOND OF			-6 NS SS	TEMP SN TEMP SN COND SN COND SN TEMP			$\overline{}$	7 70	To	50 /	10	28	> 00	0	10	0	\ 0	0			드
	VESSEL	CONSC CAST #	SBE	SEC PRIC							`_			-				1	12		

		10		1									,				
177	STA. NAME/ID  ZOMUCEPTH = 62-m  nitials:	Nis	No	-	2	3	4	Ŋ	9	7	- ∞	6	10	11	12		_
STATION NO.	TIME (GMT)         DRY BULB         RH         Pressure         WIND         WIND         BOTTOM DEPTH         STA. NAME/ID           HR         MIN         (°C)         (%)         (mb)         (deg)         (kts)         (m)           OO         A         (mb)         (deg)         (kts)         (m)         (m)           WEATHER OBS:         SFC/Bottom Temp.         MAX DEPTH = LO 2-m           REMARKS:         RALWALA, S DECEST GAL WAY DOLLAN           C GST TO.         C GST TO.    Recorder Initials:	Comments				•											
ST	OLLO 3	S							1 1 1 1 1 0 0 1 1 1 1					: II II II II II II II			
	WIND SPD.								1 3 3 4 6 6	<u> </u>	1 1 1 1 1						
	Sure DIRN. b) (deg) C (deg) SFC/Bottom Temp						1 1 1 1 1 1 1 1 1			ALC		84	400				
	WIND   WIND   WIND   SPD.   BC   SPD.   SPD	POC	500 ml	000000000000000000000000000000000000000													
CTD FileName:	E (%)		>10 dup vol						9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
CTD F	CC) PRESENTE		GFF Dup Vol	1 1 2 3 8 8 8 8 8 8			# 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							0 0 0 0 0 0 0 0 0 1 0 0 0			
	TIME (GMT) HR MIN OOO OOO		>10 Large Vol											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
CT & LEG	E W	0.0	GFF Vol >10			/	7	S			3	2					
PROJEC	∑	Chloro	GFF			138	37	285	38		783	L					
	No DAY		DIC/Alk	53													
		1-PMEL	02-Btl.No DIC/Alk	345													
CRUISE ID	DEG TLUOR SBE 43- Transm PAR S/ O2 Tmp	Hydro Team-PMEL	Nut.Btl		155	156	151	158	159		160	101	,				
5	2		SALT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					4	-	->						
	MIN	Rosette Notes							Chi Mar								Inline
			Q	1	>	1	>	^	>	1	1	1	>	\			Tu.
VESSEL	CONSC CAST # DEG O 27 7 CF SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN SEC TEMP SN SEC TEMP SN SEC COND SN	DEPTH	DESIRED	801	201	50	45	30	20	26	10	0	0	0		ž.	
VE	20 0	š	2		2	m	4	ιν	9	_	00	6	10	=	12		

	WE/D WE/D	Nis	2 2	-	2	m	4	7.	9	_	000	0 0	, 6	=	12		_
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M	der Init	S											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
STATION NO.	BOTTOM DEPTH (m)	Comments							1 1 1 1 1 1 1 1 1 1		1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				8 8 8 8 8 8		
03		į															
	WIND SPD.								文:	ξ×			Ex				
	Sure DIRN.  (b) (deg)  SFC/Bottom Temp  Out Sure A.			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-	TA MA	T F Z			が変			] ] ] 3 1 1	
	WIND WIND WIND WIND (mb) (deg) (kts SFC/Bottom Temp.	POC	500 ml														
Name:	HZH (%)		>10 dup vol	0 0 0 0 0 0 0 0 0					2 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			;	***************************************				
CTD FileName:	ORY BULB (°C) SWELL		GFF Dup Vol	1 1 1 0 8 8 8 8 8 8 8 8 8 8									3 5 5 E E E E E E E E E E E E E E E E E				
	ME (GMT) C ATHER OBS: AARKS:												1		i		
	Re WE		>10 Large Vol	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		1 3 4 0 0								1 1 1 1 1 1			
PROJECT & LEG	\$ 0 0	Q					L	10			2						
PROJEC	S S	Chloro	GFF Vol			12	1287	188	281		33	187		1000			
	30 NA		C/Alk	54		0 0 0 1 1 1 1 1 1								0 0 0 0 0 0 0 0 0	10		
(05¢)		PMEL	02-Btl.No DIC/Alk											349		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
200	M	Hydro Team-PMEL	Nut.Btl 0		162	63	400	165	166	~	29	89		, 1			
CRUISE ID	DEG N N N N N N N N N N N N N N N N N N N	Hyc			دسیہ		_										
			SALT						6	IN MAX	->						
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VESSEL	ONSC AST # SBE 9+ PRI TEMI SEC TEM SEC CON	ОЕРТН	DESIRED	801	300	50	40	30	20	0	0	0	٥	0			
 VE	00 0	Nis	2	-	2	3	4	2	9		۵	6	1	Ξ	12		

11 (	STA. NAME/ID	ž	= 63 m	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Nis	Š.	-	2	m	2 4	- 10	2	7	- α	σ	101	= =	12	7,	
STATION NO.	BOTTOM DEPTH STA	(m)	МАХ DEPTH					Recorder Initials:	Comments							STOOCKER DAMAS SD A. I DECNIS		7						
	WIND SPD.	(kts)			: [	4 4 9 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8						3 3 5 5 6 6				V	古			A.		0		
	WIND DIRN.	(deg)	SFC/Bottom Temp.	とてひ									v.			9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	W			JAK K				
	Pressure	(mb)	SFC/Bo	Soltan			*******************************		POC	500 ml					,							3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	퓬	(%)	1	1.00						>10 dup vol														
C I U FIIENAME:	DRY BULB	(0,0)		1,48 C						GFF Dup Vol >								3 5 5 7 6 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8						
	TIME (GMT)	HR O H	WEATHER OBS:	REMARKS:						>10 Large Vol								000000000000000000000000000000000000000						
		£ 0	3	œ		<u> </u>									1.0			0						
		OHS EP							Chloro	GFF Vol			182	787	288	187		783	283					
		<b>\</b> ≥								JIC/AIk	55									9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
AQ330	LONGITUDE	MIN		prime)	eter	ON HO			-PMEL	02-Btl.No DIC/Alk	354													
£		73 C	FLUOR S/N	SBE43-0xy (prime) SBE43-0xy (sec)	Transmissometer PAR S/N	O2 Tmp Senson No			Hydro Team-PMEL	Nut.Btl (		169	170	171	t72	22		龙	175					
	-	\(\chi_{\sigma}\)	u. 1							SALT	0 0 0						4×	>	307				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	LATITUDE	Ø							Rosette Notes	5							Chi Mar							Inline
		0 PEC	-6 -6	PRESS SN	SEC TEMP SN	SEC COND SN			DEPTH ROS	DESIRED	7	BOT	50	40 5	30 1	1 00	10	5	\ \	\	9			
V ESSEL V ESSEL	CONSC CAST #	020	+6 38E 9+	PR E	SEC.	) S			Nis	No. DES	1 807	2 8	(كا		5	90		8	9	10		12		

	0 0 6		Nis	No	-	2	m	4	L/S	9			6	2	2 =	12		
3, H.C	1 STA. NAME/ID 7 3 70 м ф омах. DEPTH= 68 m	Recorder Initials:		2											-	-		
STATION NO.	(m) (m) 7.3	Record	Comments		o water in bottle											HANDE BEOKEN ON REPOVERY NISKU HAS HOLE		
	WIND SPD. (kts)				2					I,						7.		
	Sure WIND DIRN.  b) (deg)  SFC/Bottom Temp.	South							1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1		F.S.		4,	75				
	Pressure (mb)	C Borram	POC	500 ml	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9													
CTD FileName:	RH (%)	7.30°C		>10 dup vol						:								
CTD Fi	ORY BULB (°C)			GFF Dup Vol	3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				0 0 0 1 1 1 1 1			
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PROJECT & LEG	& & G		Chloro	GFF Vol			58	787	387	189	15 1	283	185					
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CRUISE ID	DEG TEUOR	SBE43-Oxy (prime) SBE43-Oxy (sec) Transmissometer PAR S/N O2 Tmp Senson No	Hydro Team-PMEL	Nut.Btl		176	177	178	179	180	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	181	187		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		000000000000000000000000000000000000000	
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U 35	LATITUDE	DEG	익륏	DAY	MO	TIME (GMT)	DRY BULB	RH (%)	Pressure (mb)	WIND WIND DIRN. SPD. (deg) (kts)	ND BOTTOM DEPTH		MS STA. NAME/ID	
03	5954.88	Z - 2		527045	or Cl	3 15 59	•				~~~~	E C		
PRESS SN	2	SBE43-0.	SBE43-Oxy (prime)			REMARKS:	3. entertronomentertronoment	ro	9-C/B01	S-C/Bottom lemp.		MAX. DEPTH =	- HIH=	٤
PRI TEMP SN SEC TEMP SN	NS o	SBE43-0xy (sec)	xy (sec)				7_	204'6	2 BOTTON					
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No. DESIRED		SALT Nut.Btl	02-Btl.No DIC/Alk	JIC/AIK	GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml					Š.
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CTD FileName:	RH (%)			>10 dup vol			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						1. 1.					
CTD Fil	DRY BULB (°C)			GFF Dup Vol													1 1 1 1 2 3 0 0	
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CRUISE ID	LOT LOT	SBE43-Oxy (prime) SBE43-Oxy (sec) Transmissometer PAR S/N O2 Tmp Senson No	Hydro Team-PMEL	Nut.Btl		190	191	192	193	194	1 1 1 2 1 0	195	196				0 0 0 0 0 0 0 0	
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-	LATITUDE	TOV	LONGITUDE	-		TIME (GMT)	DRY BULB	뀬	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH STA. NAME/ID	ME/ID
0335926	333 1	DEG 7054	- ₹	28 604	MO S S S S S S S S S S S S S S S S S S S	3 HR MIN	().	%	(gm)	(deg)	(kts)	W.O.C. (E)	4
SBE 9+		FLUOR S/N				WEATHER OBS:	.:		SFC/Bc	SFC/Bottom Temp.		MAX DEPTH =	m (9)
PRESS SN		SBE43-0xy (prime) SBE43-0xy (sec)	(prime) (sec)	:		REMARKS:	S 1 S	2008	5.T - Je	dies	**************************************		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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Nis DEPTH Rosette Notes		Hydro Team-PMEL	n-PMEL		Chloro				POC			Comments	Nis
No. DESIRED	SALT	Nut.Btl	02-Btl.No DIC/Alk	JIC/AIK	GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	1 500 ml				S <sub>O</sub>
1 307 /	308	000000000000000000000000000000000000000	317	20									-
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CONSC CAST #	DEG MIN	LONGITUDE DEG MIN	P	& \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TIME (GMT)	DRY BULB	HA (%)	Pressure (mb)	WIND WII DIRN. SP (deg) (kt	WIND SPD. BO (kts)		STA. NAME/ID	9 2
	~	•			WEATHER OBS:			Ϊ	SFC/Bottom Temp.		MAX. DEPTH	- 2	E
PRESS SN		SBE43-0xy (prime)			REMARKS:				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
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Nis DEPTH	Rosette Notes	Hydro Team-PMEL	3"	Chloro				Poc			Comments		Nis
No. DESIRED	SALT	Nut.Btl 02-Btl.No DIC/Alk	DIC/Alk	GFF Vol	>10 Large.Vol	GFF Dup Vol	>10 dup vol	500 ml					S
367			09										-
2 Bot	>	206											2
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CONSC LATITUDE CAST # DEG MIN	4 9 17 OPEG	LONGITUDE MIN	DAY MO	Z × Z	GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)		WIND SPD. (kts)	(ш)	STA. NAME/ID	
SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN	FLUOR S/N SBE43-Oxy (prime SBE43-Oxy (sec) Transmissometer PAR S/N O2 Tmp Senson N	FLUOR S/N SBE43-0xy (prime) SBE43-0xy (sec) Transmissometer PAR S/N O2 Tmp Senson No		WEATH HEWAF	WEATHER OBS: REMARKS:			SFCBottom Temp.	SFCBottom Temp.	Ter		мах рертн = 63 п	
										· ·	Recorder Initials:	ls:	7
DEPTH Rosette Notes		am-PMEL		oro				POC			Comments	Nis	1
DESIRED	SALT Nut.Btl	02-Btl.No DIC/Alk		GFF Vol >10 Large Vol		GFF Dup Vol	>10 dup vol	500 ml				No.	
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王	STA. NAME/ID	TH = (																
STATION NO.	ВОТТОМ БЕРТН (т)	MAX. DEPTH =	Comments								0							
	WIND SPD. (kts)										<b>*</b>			25.				
	WIND DIRN. (deg)	SFC/Bottom Temp.									Date			回	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Pressure (mb)	SFC/Bot	POC	500 ml													10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Name:	FR (%)			>10 dup vol														
CTD FileName:	DRY BULB			GFF Dup Vol	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	TIME (GMT) HR MIN	WEATHER OBS:		>10 Large Vol	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
& LEG	E W	s α								au-		$\cap$						
PROJECT	o <sub>M</sub> N		Chloro	GFF Vol			H	135	386	1861		536	987					
	20 PA W W W W W W W W W W W W W W W W W W			JIC/AIK	67													
	TUDE	rime)	MEL	02-Btl.No DIC/Alk											383			
CRUISE ID	LONGITUDE DEG MIN	FLUOR S/N SBE43-0xy (prime) SBE43-0xy (sec) Transmissometer PAR S/N O2 Tmp Senson No	Hydro Team-PMEL	Nut.Btl 0		218	919	220	166	232		223	724					
8	Wz			SALT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						MAX				9 0 to 11 11 11 11 11 11 11 11 11 11 11 11 11			
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), H(	STA. NAME/ID	70 M	ЭЕРТН=		***************************************			Initials:						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8						
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	TIME (GMT)	₹ <u>~</u> <u>~</u> <u>~</u>	WEATHER OBS:	HEMARKS:		선생 전에 안 된 한 한 한 한 한 한 한 한 한 한 한 한 한 한 한 한 한 한				>10 Large Vol														
		DAY MO YR O S S R R & 3							Chloro	GFF Vol >10			CXC	6		8			383					
		S S S S S S			-					/Alk	63						3 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							
	LONGITUDE	7005. 49 W		ec)	ter	200			PMEL	02-Btl.No DIC/Alk	325 (		1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3						000000000000000000000000000000000000000					
	TONG	DEG 700 8	FLUOR S/N	SBE43-Oxy (prime)	Transmissometer	PAR S/N			Hydro Team-PMEL	Nut.Btl 0	V '	225	ンても	227	228	329	3 3 3 0 0 0 0	330	23.1					
		<u>-</u>								SALT			8 8 8 8	3		$\leftarrow$	N.K	->	194					
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CONSC CAST #	DEG MIN CHT 6	DEG   DEG   SBE 43-4	LONGITUDE MIN  3 4 . 9 4 W  S/N  Oxy (prime)	DAY	M	TIME (GM HR M WEATHER C	(C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	200	BOTTOM DEPTH	TO TO M DILL MAX. DEPTH = 60 m	Q 4 E
SEC TEMP SN SEC TEMP SN PRI COND SN SEC COND SN	MP SN MP SN NS GN ND SN	SBE43-Oxy (sec) Transmissometer PAR S/N O2 Tmp Senson No	(sec)				J ž		A,39°C ROTTO A. Sk.18°C SURFACE SALLY FRETCAT - RELUT ASTERST	ROTTOM Sukku TCAT ← Bu	HALL Brunt	D. C.	Recorder Initials:	
Nis DEPTH	H Rosette Notes	Hydro Team-PMEL	m-PMEL		Chloro				POC			Comments		Nis.
No. DESIRED	ED SALT	r Nut.Btl	02-Btl.No DIC/Alk	IC/Alk	GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml					No.
807	<u> </u>			19							3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			-
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Nis DEPTH	H Rosette Notes	Hydro Team-PMEL		Chloro				POC			Comments	Z	Nis
No. DESIRED	ED	Nut.Btl	02-Btl.No DiC/Alk	GFF Vol >	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml				2	9
180	>	34	65	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						-
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12 12	>	240		282									m
4 40	>	241	10 mg/m	785						1			4
5 30	>	343		285					<u> </u>				
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<i>©</i>								0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ARK ONA	7-21			=
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	Inline												

			16230	15	PROJECT & L	& LEG	CTD	CTD FileName:			STATION NO	13,41	
CONSC CAST # LATITUDE	30	אַ	LONGITUDE			TIME (GMT)	C) DRY BULB	퓬	Pressure	WIND WII	WIND BOTTOM DEPTH	STA	9
PEG M	MIN 7 4 0	16843 MI	200	5 PA V DA	% ? % ?	₹ 0	©	(%)	(mp)	$\vdash$	(E)	70 M 4M	
SBE 9+		FLUOR S/N				WEATHER OBS:	BS:			SFC/Bottom Temp.	W		E
PRI TEMP SN SEC TEMP SN		SBE43-0xy (prime SBE43-0xy (sec.)	SBE43-Oxy (prime) SBE43-Oxy (sec) Transmissometer			REMARKS:	MARKS: FARGY SWW	77.7		3.6%	3.6°C Borean		
PRI COND SN		PAR S/N						***************************************					
SEC COND SN		O2 Tmp 8	OZ Tmp Senson No				429	A 046	20	- F&T	SALT TOO		
						- 1					Recor	Recorder Initials:	
DEPTH Rosette Notes	11/0-1	Hydro Te	Hydro Team-PMEL		Chioro				POC		Comments		Nis
DESIRED	SALT	Nut.Btl	02-Btl.No DIC/Alk	JIC/AIK	GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	500 ml				O
B07 /				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							-
BOT /		SHO											~
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40 /		348			787	\$ C C C C C C C C C C C C C C C C C C C							4
30 /		249			285								- 10
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10 V Chi	MAK												
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		X	2930	10	PROJECT & LEG	S LEC		CTD	CTD FileName:				STATION NO	1H +	
MIN MIN	3	LONGITU DEG N		N N N N N N N N N N N N N N N N N N N	DAY MO	₩ <b>%</b>	TIME (GMT) HR MIN	DRY BULB	RH (%)	Pressure (mb)	WIND DIRN.	WIND SPD. (kts)	(т)	STA. NAME/ID	9
]		FLUOR S/N				*	WEATHER OBS:	~		SFC/B	SFC/Bottom Temp.		W W	MAX. DEPTH = 63	- E
11	S S	SBE43-Oxy (prime) SBE43-Oxy (sec)	(prime)(sec)			<b>E</b>	REMARKS: LANGON SULFACE	مرسي مهت	saC.	2 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	78	3,5	, 3,50°c		
		Transmissometer PAR S/N O2 Tmp Senson No	neter ——				0	PRE SA	ארבו שלפ	1 (Sec. 2)	SURP				
											***************************************		Recor	Recorder Initials:	
Rosette Notes		Hydro Team-PMEL	n-PIMEL		Chloro					POC			Comments		SiS
	SALT	Nut.Btl	02-Btl.No DIC/Alk	JIC/Alk	GFF Vol		>10 Large Vol	GFF Dup Vol	>10 dup vol	ol 500 ml					Š
			359	2)2)											_
	203	253													2
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TV.													1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		12
			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
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STATIONNO. HI	WIND SPD. BO	(kts) (m) (G7 M tt S	мр. МАХ. DEPTH = 6.3- m				Recorder initials:	Comments	No		~	m	4	· LO	0		00	0	10		12	
	e e	(mb) (deg)	SFC/Bottom Temp.	r Botton		**************************************		Poc	500 ml				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			25			XMO			
CTD FileName:		(%)		3.5%					Vol >10 dup vol													
	(GMT) DRY	1 % 20 (°C)	WEATHER OBS: REMARKS:						>10 Large Vol GFF Dup Vol													
PROJECT & LEG		S 2 2 X	S E				II.	Chioro	GFF Vol >10 I		18.4	FRE	383	385	186		283	688				
402301			prime)	sec)	on no			-PMEL	02-Btl.No DIC/Alk	10)						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				363		
CRUISE ID A	1	1 6 9 0	FLUOR S/N SBE43-Oxy (prime)	SBE43-0xy (sec)	PAR S/N O2 Tmp Senson No			Hydro Team-PMEL	Nut.Btl C		Slac	261	Res	363	aley		865	3 Dele				
1	ITAJ	739.238		- 7	7 2			Rosette Notes	SALT	7	)	\	/		<2	and mox	7	861		*/		
VESSEL	CONSC CAST #	042	SBE 9+ PRESS SN	PRI TEMP SN SEC TEMP SN	PRI COND SN SEC COND SN			Nis DEPTH R	No. DESIRED	1 Bot	2 Bot	3 50	4 40	5 30	9 3D	01 2	23	9	. 01	11	12	

	ME/ID		E E					Nis	2	-	2	en en	4		9	7	00	6	-	=	12		
STATION NO.	STA. NAME/ID	MYE	MAX DEPTH = 6				nitials:				† † † † † †						) ) ) ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (				1 0 0 0 0 0 1 1 1 1		1
Non No.	ОЕРТН	70	MAX [		1 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		Recorder Initials:	Comments							† t t t t t t t t t t t t t					i	3 0 0 0 0 1 0 1 1		
STA	ВОТТОМ DEPTH	Ē						Con							1								1
	WIND SPD.	(kts)		J	2								6 6 6 8 8 8	<u> </u>									
	WIND DIRN.	(deg)	SFC/Bottom Temp.	2	3,817						3 3 0 4 4 4 4 8 8 8 8		9 9 6 4 4 4 8			4 8	9 6 6 6 6 8 8		小女				
	Pressure	(mp)	SFC/Bot		ζ			POC	500 ml										3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				
::		(%)		SURE	(800%)				>10 dup vol						1 1 1 1 2 3 3 4 6 6								
CTD FileName:				0 0 0 0 0 0 0		Additional																	
	- R	9	ä	0 0 0 0 0 0 0					GFF Dup Vol														
	⊢	A CO	WEATHER OBS:	000000000000000000000000000000000000000		<b>VAVARIATION PROPERTY AND ADDRESS</b>			>10 Large Vol														
EG _		\$ 100 ×	WE																				
PROJECT & LEG		DAY 6 6 7 7 7 7 7 7 7 7						Chloro	GFF Vol			B	Ber	328	281		983	283					
		© PA							Alk											1			
30	W :	<b>8</b>						) 	02-Btl.No DIC/Alk	90										1			_
492301	LONGITUDE	W X	FLUOR S/N SBE43-Oxy (prime)	SBE43-0xy (sec)	Transmissometer PAR S/N O2 Tmp Senson No			Hydro Team-PMEL		366	7	<i>∞</i>	6	0		- 1 1 1 1 1 1 1	7	8					
CROISE		16828	FLUOR S/N SBE43-0xy	SBE 43-	Transmiss PAR S/N O2 Tmp S			Hydro	Nut.Btl		267	268	269	270	128		272	273	3			1	
		9							SALT	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	199				<	MX	<b>→</b>						
	LATITUDE	4 9 P						Notes								Chil wax							
	-			NS	NS C			Rosette Notes		1	1	1	/	/	/	>	>	>	>	<u> </u>			
Dec Coeff	CAST #	43	SBE 9+	PRI TEMP SN	PRI COND SN	- الحصالحات		DEPTH	DESIRED	B07	BOT	50	40	30	90	9	01	٥	0	0			
VESSEIL	ان ت	0						Si	Š	-	2	m	4	r.	9	7	ω	െ	9	=	12		