VESSEL	F		CRUISE ID			PROJECT & LEG	× LEG	СТБ	CTD fileName:			i	STATION NO.		
Dcean Starr	Starr)	OS 17-01)1		NPRB A	AIERB Leg1						17CKP12	AK/C	
											-				
CONSC CAST #	C # LATITUDE	DE	1 07	LONGITUDE			TIME (GMT)	DRY BULB	RH	Pressure	WIND S	WIN D SPD. BOT	ВОТТОМ DEPTH	STA. NAME/ID	٩
	DEG MIN	7	DEG	MIN	DAY	MO YR	HR MIN	(°C)	(%)	(mb)	() (deg)	(kts)	(m)		
0	16754.	2 9	163	11.13w	2	6A u g 1 7	711540						205		
SBE 9+	+6		FLUOR S/N	N/S			WEATHER OBS:	JBS:		SFC/B	SFC/Bottom Temp.	٠	MAX. 1	MAX. DEPTH = 5/	
R.	PRESS SN		SBE43-C	SBE43-Oxy (pri			REMARKS:	-7	SCOVER	07/	6 CKP,	40,			
PR	PRI TEMP SN		SBE43-C	SBE43-Oxy (sec			9								
SEC	SEC TEMP SN		Transmi	Transmissomete			3	Expt.	一业						
¥	PRI COND SN		PAR S/N					Flow	753	Brockn	*				
SEC	SEC COND SI		D2 Tmp	02 Tmp Senson			年	W	44	CAD	\$C54	4			
							P009=	= Particu	Who Or	Ganic ,	mosph	ase			
Nis	DEPTH Rosette Notes	tes	Hydro	Hydro Team-PMEL		Chloro	S1-20-1	ract C	hla	The	Pop	9	1	THEFT	Nis
No. DES	DESIRED	SALT	Nut.Btl	Nut.Btl O2-Btl.N DIC/Alk		GFF Vol	DK Grysonk	> DK argano Brown G-1 F-24 F-volley AM	地上	VOIPUZAPM	ナギに	- Tolul		l l	ģ
1	0 (51m	33	1000	N HE		240							0 646	2 From/	
2 4	0		76	$\overline{}$		240							SAS.		2
3	0		3			240									ω
4 20	0		H			240	>4	s mers	十十	>	500	//// /L	Flow Cam,	下子	4
5 2	1 % S'1 C	PAR									C\$ \$				5
9	0	ļ	7			250	<i>></i> [∠]	50 mer	本本	>	500				9
7 2	0 12% PAR	PAR				**					C09	11,7,7,7	- Flow Cam	٤	7
1 8	0 25%	PAR				6 4	= -					<u>ک</u> ر کرکر			ω
6	0		9	3		240	_ 7u	50 nc	1 hck	>	200				6
10 (100% BAR	PAR										> ²	Flowlang	FA	10
11				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		· · · · · · · · · · · · · · · · · · ·		1							11
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		Ootode	į .	ON IXEM	N of	ς Ω	53-54m	K					•		

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4 9 6 STA. NAME/ID S 17CKP 10A MAX. DEPTH = 43 STATION NO. **BOTTOM DEPTH** WIND D DIRN. SPD. (deg) (kts) SFC/Bottom Temp. 167 46,63 CTD FILENAME: Pressure | POC GFF Vol >10 Large VolGFF Dup V>10 dup vol500 ml Lep yment (mb) RH % DRY BULB ()₀ WEATHER OBS: 0027012.70N16747.39W07AUG110886 Leg1 HR MIN REMARKS: TIME (GMT) du. Hex 136868 AIERB PROJECT & LEG Chloro 1730 NPRB Θ DAY Nut.Bti | O2-Bti.N DIC/Alk Hydro Team-PMEL LONGITUDE D2 Tmp Senson Transmissomete SBE43-0xy (sec SBE43-0xy (pri FLUOR S/N OS 17-01 PAR S/N 01 CRUISE ID 1 00 SALT Nis DEPTH Rosette Notes LATITUDE SEC COND SI SEC TEMP SN PRI COND SN PRI TEMP SN PRESS SN No. DESIRED Dcean Starr 940 30 0 Z 0 CONSC CAST # /ESSEL 10 12 11

Fluor oct 339

VESSEL			CRUISE ID	PROJECT & LEG		CTD FileName:			STATION NO.	
Ocean Starr	Starr	•	OS 17-01	NPRB AIERB	RB Leg1	ctdo03	103, hex	2	17CKP1,	/1
								New	,	
CONSC CAST #	Ç #	LATITUDE	LONGITUDE		TIME ORY BULB	RH	Pressure DI	WIND D DIRN. SPD. B	ВОТТОМ DEPTH	STA. NAME/ID
	DEG	MIN	DEG MIN L	DAY MO YR	HR MIN (°C)	(%)	p) (qm)	(deg) (kts)	(m)	
0	37001		16651.00w	7Aug17	3306	,			44	
28	SBE 9+	,	FLUOR S/N		WEATHER OBS:		SFC/Bottom Temp.	m-Temp.	MAX. DEPTH	ЕРТН = <i>\psi</i>
E E	PRESS SN		SBE43-Oxy (pri	· .	REMARKS:					
# 	PRI TEMP SN		SBE43-0xy (sec		171200	(00%)	7 NO	Samo	les har u	\s\
<u>S</u>	SEC TEMP SN		Transmissomete				ر ا			
<u></u> <u>K</u>	PRI COND SN		PAR S/N							
SE	SEC COND SA		D2 Tmp Senson		PP SAM	ples on	7 7	To fact	Chla, 801	, 托, 环
		il			+ Thow Ca	The free	" (ast	H. Usel	me	Bottles for PP
Nis	DEPTH RO	Rosette Notes	Hydro Team-PMEL	Chloro			POC	PP P	PP SIZE -FERC	Nis
No.	DESIRED	SALT	Nut.Btl 02-Btl.NDIC/Alk	GFF Vol	>10 Large VolGFF Dup V>10 dup val500 mi	V>10 dup v	_	+otel		No.
	30	1% PAR		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-		/// JIL ////		
2	30							Š	7	2
3	0,	12% BAR		0 0 0 0 0 0 0		4 -	<i>\</i>	, , , , , , , , , , , , , , , , , , ,		CT.
4	5							!	11	4
5	0)	25% PAR	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		>	VVV/10		5
9	0	,						11	11	9
7	0	O% PAR				-		///JD		7
ω	0			,				>>	117	00
6	0	•			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			6
10						-				10
11			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				3			11
12	. 100								-	12
)									

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VESSEL	CRUISE ID	PROJECT & LEG CTD FileName: STATION NO.	NO.
Dcean Starr	OS 17-01	NPRB AIERB Leg1 7C	70 KP11
CONSC		NIM QNIM .	
CAST # LATITUDE	LONGITUDE DA	DRY BULB RH Pressure DIRN. N (°C) (%) (mb) (dea)	PTH STA. NAME/ID
01.09	WZ 1. 12W	Aug 1 7 000 /	43
SBE 9+	-		MAX. DEPTH = 42
PRESS SN	SBE43-Oxy (pri	REMARKS: KROWER 110 CREPILA	
PRI TEMP SN	SBE43-0xy (sec	Deploy 17 CKP11A	
SEC TEMP SN	Transmissomete		
PRI COND SN	PAR S/N	No FA, PP colleges Cast 3	
SEC COND Sh	D2 Tmp Senson		
Nis DEPTH Rosette Notes	Hydro Team-PMEL	Chloro Size Frac Strucks (CPZ POP IC Flow Can P)	A PP Nis
No. DESIRED SALT	T Nut.Bti O2-Bti.NDIC/Alk	Q.509E3Mi	Jot Size The
$\frac{1}{1}$	رة ا	240 pc	1
2 40	NW.		2
3 30	2	290 500 R SOOM V	8
4 30	×		4
5 20	14	290	2
000	_		9
2 10	51	790 500, 4 2005 066	7
8 /0	X	=	80
Q	2	290 soo me	6
10 0	× 187	2005	10
11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11
12			12
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	CK	STA. NAME/ID			MAX. DEPTH =	+																	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
STÁTION NO.	17CKP	ВОТТОМ DEPTH	(m)	84	MAX	DOUSON	. 0									,										
	į	WIN D SPD.			remp.	1 20	, J	,								¥1										
		WIND DIRN.	(deg)		SFC/Bottom Temp.	1111	3					_			-										,	
ii		Pressure	(mp)		SFC/	2000					POC	vol500 ml												·,		
CTD fileName:		Ŧ	(%)									>10 dup														
CTD		DRY BULB	()°C)		ŝ						,	SFF Dup V			-			_	-			-		2		
EG .	RB Leg1		HR MIN	1511	WEATHER OBS:	REMARKS:						GFF Vol >10 Large VolGFF Dup V>10 dup vel500 ml											, , , , , , ,		,	,
PROJECT & LEG	(B AIERB) YR	g 1 7					1		Chloro	Vol >1	06								Paris .		20x at 2		* 7	
PRC	NPRB	-	DAY MO	A A									29	è	in and in	***	- }						3			
				7 ×								VDIC/AII											1			
	1	LONGITUDE	MIN	3.3	Į Z	xy (pri	xy (sec	somete	0	Include:	Hydro Team-PMEI	02-Btl.NDIC/Alk	9				_									
CRUISE ID	OS 17-01	NOT	DEG	1 59	FLUOR S/N	SBE43-0xy (pri	SBE43-0xy (sec	Transmissomete	PAR S/N	الله عرا الله عرا	Hydro T	Nut.Btl	100	Q.	96	20	23				=					
5	Ö			Z								SALT					76	,								
	20	LATITUDE	MIN	4.0				:			Rosette Notes	(E)										3				
	arr		DEG	7	- -	SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	֓֞֝֝֝֝֝֝֝֝֓֓֓֓֓֓֓֓֓֓֡֝֝֓֓֓֡֝֡֓֓֡֓֓֡֝֓֡֓֞֝֡֓֡֓֡֡֝֡֓֡֓֡֝֡֓֡֡֝֡֡֓֡֡֝֡֡֡֝֡	1	(ED	00	<u></u>	0		· ·	F. 42		24.7		Ri — L	3 41	20,00 30	t	
VESSEL	Ocean Starr	CONSC CAST #		0 05	SBE 9+	PRESS SN	PRI TEI	SEC TE	PR 5	() 	Nis DEPTH	No. DESIRED	1 28	2 30	2	4 1/	5	9	7	8	6	10	11	12		

No www 17?

VES	VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName: /	e: ()	STATION NO. P.	
Dce	Ocean Starr	OS 17-01	NPRB AIERB L	Leg1 .	14th	大のイング	
			6				
55	CONSC CAST # LATITUDE	LONGITUDE	TIME (GMT)	E T) DRY BULB RH	WIND D WIND D Pressure DIRN. SPD.	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN D	DAY MO YR HR I	MIN (°C) ' (%)	(mb) (deg) (kts)	(m)	
0	067 13.80N	16412.47	A ug 1 7 1 84 4			66	
	SBE 9+	FLUOR S/N		WEATHER OBS:	SFC/Bottom Temp.	MAX. DEPTH =	
	PRESS SN	SBE43-0xy (pri	REMARKS:	(S:			
	PRI TEMP SN	SBE43-0xy (sec		o Tro	end sama	les	
	SEC TEMP SN	Transmissomete		-			
	PRI COND SN	PAR S/N		The	DO DE LA COUDE	we did unt	_
	SEC COND SI	D2 Tmp Senson	3	as do he	16 (we di	1 them at 00	2
N N	DEDTH Bosette Notes	Hydro Topm_DMEI	Chloro	SHUK	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 141	00
2	חביו וו שמשבווב ואחובא	¥ Γ	227	15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	On Cam	SIN SIN
o N	. DESIRED SALT	Nut.Btl O2-Btl.NDIC/Alk	GFF VOI > TO LANGE NO	- VolGFF Bup V > 10-dup vo	p-volteee-ml		O
-1	36 1.5% PAR		Lyobe			11	
2	36		500	ONB	500 V	/ /	2
т	20 12% PAK					, , ,	В
4	20			- \	500 Y	\ 	4
2	30		4002	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		7000	2
9	10 25%PAR					7	9
7	10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	500	2	7 500 7		7
∞	01	200				>	8
6	0 100% PAR		200	2		<i>\</i>	6
10	0		>	24	7 Co3	> 7	10
11				3 ² / = V			11
12							12

Start	Start OS 17-01 NPR8 ARR LB31 C L	VESSEL	CRUISE ID	SE 10	PROJECT & LEG		CTD FileName:		1	STATION NO.		
PEG MIN DEG DEG	The Dec Min Dec Dec Min Dec Dec Min Dec	an Starr	05 1	.7-01						61		
Acid Dec Min Dec Min Day Mo YR HR Min (*C) (*6) (*C) (*6) (*C) (*6) (*C) (*C)	2 2 2 2 2 2 2 2 2 2			LONGITUDE		1722	H		WIN D CPD	TOM DEPTH	STA NAME/ID	
See 5-3 See 1-3 See 1-4 See	See 34 Ludo S/N Aug 7	DEG	DEG	MIN	МО	MIN	(%)	_	(kts)	(m)		
Public SN Publ	SEE 91- FILLOR SIN WEATHER LOBS: SECTION TO FREE 3.3	77058.	~	7.3	П	•	1. S			1		
PRESS SN PRESS SN PREMARKS: PREMARKS: PREMARKS: PROPERTY PROPER	PRESS SN PRESS SN PREMARKS: PREMARKS: PREMARKS: PROPERTY PREMARKS: PREMARKS: PROPERTY PROP	\$8E 9+	J.	IOR S/N		WEATHER OBS:		SFC/Bottom	Temp.	MAX. DE	= 3	
Sec 780 St	Sec Tenk SN	PRESS SN	SBE	643-Oxy (pri		REMARKS:	2					74
Fee Tenk SN Pans Service Pans	Part Siv Park Siv	PRI TEMP SN	288	43-0xy (sec				KPIN	•			2
Portion SN Port SN P	# Convo.sv Pot the serve Pot the serve Poc	SEC TEMP SN	Tar	nsmissomete				61632	A	payd	~40%	
Poc Poc	PEFTH Rosette Notes	SEC COND Sh	22 A	Tmp Senson								
SAJT Nut. Btd O2-8th M D1/2	SALT NULEBI O2-BILINDIC/AIK GFF Vol >10 Large vol GFF Dup vs 500 mi A	DEРТН	Hy	dro Team-PMEL	Chloro			Poc				is
20 (3) 23 an 200 30 24 4 10 25 0 10 24 0 10 37 0 10 37 0	20 (3) 23, 311 249 20 24 1 10 24 0 0 27 0 0 27 0 10 24 0 10	DESIRED			GFF Vol	0 Large VolGFF Du	V>10	/o{500 ml				ė
32 24 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	35 24 1 10 25 25 0 37 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			2	0							-
20 25 0 27 X		30	2									7
10 24	10 24 0	2	6	.\5								m
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												12
						4						

NPRB AIERB Leg1	The Size France vol + POP PP POOL SIZE France vol + POP PP	500ml	500mg - 500	500 ml 500 ml	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	31. 31. 31. 31. 31. 31. 31. 31. 31. 31.
AIER	Te Frac vol	1				
AIERB Leg1 AIERB Leg1 TIME (GMT) YR HR MIN WEATHER OF COORD REMARKS:	Chla Size	500m	500mg	00 m		
	11 1 40	: 1 :		170		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		2	055	038		
CRUISE ID OS 17-01 LONGITUDE DEG MIN	D2 Tmp Senson Hydro Team-PMEL Nut.Btl O2-Btl.NDpt.Mg	28	6:	30		
MIN S O . O / N	Poster Notes SALT					
CONSC CAST # DEG CAST # DEG CAST # DEG SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI TEMP SN PRI TEMP SN PRI TEMP SN PRI TEMP SN	SEC COND SP. Nis DEPTH Ro. No. DESIRED	252	4 c o	0 0	9 0 0	11

TIME CONTROL	CRUISE ID PROJECT & LEG OS 17-01 NPRB AIERB	PROJECT	PROJECT NPRB	PROJECT & NPRB AI	PROJECT & NPRB AI		Leg1	CTD FileName:	Je:		STATION NO.	04 90	7+
Aug 7 15 7 6 (mb) (deg) (kts) (m) Aug 7 15 7 6 6 6 6 6 6 REMARKS: SFC/Bottom Temp. MAX. DEPTH = 4 7 6 6 6 6 6 6 6 6 6	LATITUDE	LONGITUDE	VGITUDE	,					Pressure		BOTTOM DEPTH	STA. NAME/II	1 ^
Aug 7 5 7	DEG	DEG MIN	Σ		DAY	Н	MIN		(mp)		(m)		
REMARKS: Chlor Strefal Stack Below as KOC but are Chlor Strefal Stack Below as KOC but are Chlor Strefal Stack Chlor Strefal Stack POC SFF VOI DOB-199 VEG-FOT-FOSO mil	97100.10N15917.7	15917	•	1.0	7 8 W 1 1	u g 1	517				25		
Chlor Streethat stack poor POC Streethat stack	FLUOR S/N	FLUOR S/N	N/S		- 11		WEATHER OBS:		SFC/B	ottom Temp.	MAX.		
Chlor Stre fac stack policy as KOC but ate 2900 SFF voil > 200 mg by Super stack policy of the stack stack policy stack stack policy stack stack policy stack stack policy stack policy stack stack policy stack poli	SBE43-Oxy (pri	SBE43-Oxy (pri	Oxy (pri				REMARKS:					,	
Chloro Strefar Stack polonia as KOG Churt are SFF voi page vologytoup v Confort som	PRI TEMP SN SBE43-0xy (sec	SBE43-0xy (sec)xy (sec								47+5		
Chloro Stree frat. Stack POC Chloro Stree frat. Stack Sefe voi - Wester Stack Sefe voi - West	SEC TEMP SN Transmissomete	Transmissomete	ssomete				-	-			4		
Chloro SITE Frat stadd SFF Voil > Debrage vol Grand V Est Frate of Stron mi		PAR S/N					8	中	Stack	popular	2		B
Chloro SI Je frat. Stack SFF Voi > Debrige vo Frequencia (September 1980) Jan 1980	SEC COND St. D2 Tmp Senson	D2 Tmp Senson	Senson										
240 240 240 240 240 240 240 240	Rosette Notes Hydro Team-PMEL	Hydro Team-PMEt	Team-PMEL			11 I	frac St	J	POC				l is
	SALT Nut.Btl O2-Btl.NDtC/Alk	Nut.Btl		Σ.	AIK		Design Vol GALOU		T-vol500 ml				형
	31	3.1			,	290			1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
	8	32							_				2
	23	33			1								m
	34	34			,_,	E South South	>	2	>				4
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7 8 9 10 11 11	36 176	-	-	i			>	>	>				9
8 9 10 11 11 12				i		\$.7. X Y	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						7
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11 12				I							-		<u> </u>
12				i							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ę
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VESSEL		CRUISE ID	PROJECT & LEG		CTD FileName:			STATION NO.	
Ocean Starr		05 17-01	NPRB AIERB	Leg1					大0十
							1		
CONSC CAST #	LATITUDE	LONGITUDE	-	TIME (GMT) DRY BULB	RH	Pressure D	WIND D DIRN. SPD.	ВОТТОМ DEPTH	STA. NAME/ID
٥	DEG MIN	DEG MIN DA	AY MO YR HR	(WIN (°C)	(%)	(dm)	(deg) (kts)	(m)	
9 10 7	7000.16N	15917.14WI	/	594				5.2	
SBE 9+		FLUOR S/N	WEA	WEATHER OBS:	-	SFC/Bottom Temp.	om Temp.	MAX. I	МАХ. DEPTH = 77
PRESS SN		SBE43-Oxy (pri	REN	REMARKS:			<		
PRI TEMP SN	SN	SBE43-0xy (sec		Pt graph	か井		FR	Rud Cers F	
SEC TEMP SN	. SN	Transmissomete							
PRI COND SN	NS	PAR S/N							
SEC COND SA	J S L	D2 Tmp Senson		·					
			15:21	Frachin !	back				
Nis DEPTH	Rosette Notes	Hydro Team-PMEL	Chloro	>5	677	f doa	C	Cam , PA , r	sin c'c' c'
No. DESIRED	SALT	Nut.Btl 02-Btl.NDINE	IOVE E	20 Large VolGFF Bub V 10 dup	* 10 dub *	[500 m]		-	get Size No.
1		3	10+ and	5120 Frac	The			>	1
2 30	I.S. PAK		Colle	Jed Cast	6			>	W 2
3 30		>	SIL		:	500	7	>	E
4 20	12% PAR			· *				>	4
5 20	·	<u> </u>				5.00	7		
<u></u> 9	25% PA							>	17
7		1/1				500		<u> </u>	7
<u>@</u>	gain	70		=				7	8
6	100%			ž d		V F		5	// 11
10						200	>	7	10
11					45	A			11
12	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		may 1 co		's ,	rê.			12
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	#+-************************************			****************		ــــــــــــــــــــــــــــــــــــــ	Tr		

i i		h				, ,						1) **		Alle		130						28		-		
	-44		STA. NAME/ID			PTH =		C/1 12-44	A4-971			Nis	.o _N	1	low Cam 2		4	5	9	7	8	0	10	11	12	
STATION NO.	1 to cicp-4A		воттом рертн	(m)	63	MAX. DEPTH	:	word 16	17 mala	7					Ino's in flo		3.00								,	
			WIN D SPD. E	(kts)		-dr	<	2	₹			3			\triangle											
			WIND DIRN.	(deg)		SFC/Bottom Temp.				Į	0 m	How			>					# 1 m		6 6 6 9				999
ai			Pressure	(mp)		SFC/Bo				~ 40n	at 3	POC	vel500 ml							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V/		A			
CTD FileName:		12.	RH	(%)						Sobole	XX		~10 dup													
CTD			DRY BULB	(°C)		S:				0	c max		SFF Dup V>							0			118			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EG	AIERB Leg1		TIME (GMT)	HR MIN	0206	WEATHER OBS:	REMARKS:				Chi		>10 Large VolGFF Dup V>10 dup vel500 ml						84	784	7				3.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PROJECT & LEG	NPRB AIE			MO YR	2 4 u g 1 7				5-			Chloro	GFF Vol >1	200	285	067.	290	200								
				DAY	-	100	rec					ı, ii	ы			-		100								4
	Net Net		LONGITUDE	MIN	0.09w	z	ty (pri	ry (sec	somete	30	Senson	Hydro Team-PMEL	02-Btl.NDIC/Alk	134												
CRUISE ID	05 17-01		TONG	DEG	603	FLUOR S/N	SBE43-Oxy (pri	SBE43-0xy (sec	Transmissomete	PAR S/N	D2 Tmp Senson	Hydro Te	Nut.Btl	37	28	39	40	14	140						1	1000
O	0	1)		7 N Z		<u> </u>		- 10				SALT						4			100				
			LATITUDE	Min	02.1					-		Rosette Notes								100.50	18.54	100			15	
	Starr		U#	DEG	171	SBE 9+	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND SI	DEPTH Ro	DESIRED	0/2	30	35	3	0	Þ	P	100763					160.60
VESSEL	Dcean Starr		CONSC CAST #		0	SBE	PRE	<u>*</u>	L SEC	<u>%</u>	<u> </u>	Nis	No.	1 4	ر ر	m m		2	9	7	8	6	10	11	12	

Suly Ste 2

VESSEL		CRUISE ID		PROJECT & LEG	LEG	CTD FI	CTD FileName:				STATION NO.		
Ocean Starr	Starr	OS 17-01		NPRB A	AIERB Leg1						Kos	<u></u>	
									;		**************************************		
CONSC CAST #	LATITUDE	LONGITUDE			TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	WIN D SPD.	BOTTOM DEPTH	STA. N	STA. NAME/ID
	DEG MIN	DEG MIN	DAY	MO YR	HR MIN	(O°)	(%)	(mb)	(ded)	(kts)	(m)		
	27,00.0	8 N 15748. 32	W 2	A u g 1 7	1542						124		
SBE 9+	+6	FLUOR S/N		::	WEATHER OBS:	38:		SFC/B	SFC/Bottom Temp.	ġ	MAX	MAX. DEPTH =	ر ر
P.R.E.	PRESS SN	SBE43-0xy (pri			REMARKS:								
- B	PRI TEMP SN	SBE43-0xy (sec											
SEC	SEC TEMP SN	Transmissomete											
<u></u>	PRI COND SN	PAR S/N											
SEC	SEC COND Sh	D2 Tmp Senson	K		,								
				Sr3 a	Gachen	Stack							
Nis	DEPTH Rosette Notes	Hydro Team-PMEL		Chlore		75	249	FOD 2	FC	3	FlowCam PA	1 00	A A Nis
No. DES	DESIRED	SALT Nut.Btl 02-Btl.NDNAK	4	A IOA	ST VOT > 10 Large VolGEF Du	&_	dap #	WAND VOTOR				total s	N.S.
1	70	43	>	Clot							7		
2 20	O'		-										2
3	20												Ж
4	i Ol	44	1	290	350 m	7		500	7		7		4
5											\	71	5
9	01											Z <u>J</u>	9
7 1	01		`			-						7	7 7 7
8	0	45		29,0		1 -		500	4		^	\ \ \ \	8
6	0											<u> </u>	6
10				19.8								>	16 10
11								0					11
12						-							12
	 - 												
			JF			4		recessory.			· · · · · · · · · · · · · · · · · · ·		7

TIME CANTO	CRUISE ID	CT & LEG	CTD FileName:	
TIME	05 17-01	NPRB AIERB Leg1	1 + C/5 + 5	
Mo	LONGITUDE	TIME (GMT)	WIND D RH Pressure DIRN. SPD. BOTTOM DEPTH	4E/ID
1 7 2 0 3	DEG MIN	YR HR	(°C) (%) (mb) (deg) (kts)	
POC Motor Company (10 CMPS) TEMARKS: Control of the control of	1 W 1 5 800 . 97 W 1	720		\$6
FEMARKS: LCD-LR LC CKPS Duplory 7 CKPS NO Opho de (no RCM)	FLUOR S/N	WEATHERO	SFC/Bottom Temp. MAX. DEPTH	222
POC Now Le (NO KM) NO Opho Le (NO KM) NO Oph	SBE43-0xy (pri	REMARKS:	•	
POC Por de (no RCM) >10 Large VolGFF Dup V>10 dup vc/500 ml V V :	SBE43-Oxy (sec_	 - 	\preceq	
>10 C Pho Le (M.o RCM) >10 Large VolGFF Dup V > 10 dup vg 500 ml	Transmissomete PAR S/N		Depluy 17 CKPS	
>10 Large Vol GFF Dup V>10 dup velsoo ml	D2 Tmp Senson		No Ophode (no RC)	
>10 Large VolGFF Dup V>10 dup vyl500 ml	Hydro Team-PMEL	Chloro		Nis
	Nut.Btl O2-8tl.NDIC/Alk GF	10000		ġ
	9,			
	47	teops.		2
11 12 12 12 12 12 12 12	2)			м
No. of the content	66			4
Part	50 207			S
7 8 9 10 10 11				9
No. of the content	-714			7
10 10 11 12 12 12				8
10 10 11 12 12 12 12				6
				10
		1200	2 1000	11
		, AP		12
				1

CONST. CAST 7 CAST 7 CAST 7 CAST 8 CAST 8	VESSEL		CRUISE ID	PROJE	PROJECT & LEG	CTD	CTD FileName:			STATION NO	NO.	
1 2 5 1 2 2 1 2 2 2 2 2 2	Ocean Starr		OS 17-01	NPRB	AIERB	91					807	
NAME									3			
PEG MIN DEG MIN ROW NO		TUDE	LONGITUDE		TIME (GMT)		R	Pressure				A. NAME/ID
1 7 2 2 5 8 1 5 2 5 8 1 5 1 5 1 5 1 5 1 5 1 5 5		MIN		H	H			(mp)				
Fig. 10 Str. Fig. Str.	<i>h</i> 1	<i>4</i> 5 ·	30.	3 A u	1 7				97		633	
REMARKS RESTRICTION SW REMARKS RESTRICTION SW REMARKS RESTRICTION SW REMARKS REM	SBE 9+		FLUOR S/N		WEATHE	R OBS:		SFC/B4	ttom Temp.		MAX. DEPTH	9
SEC TEMP SN PAR SN SPECIOL SN PAR SN SPECIOL SN	PRESS SN		SBE43-Oxy (pri		REMARK	i,						
SECTEMP SN Part SN Part SN	PRI TEMP SN		BBE43-Oxy (sec								1	
SEC COND St. Part St. St. Timp Senson Str. Free Land Starth Str. Free Land Starth </td <td>SEC TEMP SN</td> <td></td> <td>Transmissomete</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SEC TEMP SN		Transmissomete									
Second State Destruction State	PRI COND SN		PAR S/N									
State Note Hydro Team-PMEL Toplog State Pole F.C. Pole	SEC COND Sh		D2 Tmp Senson									W.
DEFITH Rosette Notes				-	15020	Radran	Stau	h				
Persine Sal Nult Bil Oz-Bil NoldMark E, Griver 20 Large vol Greculo vice de produce Poka Griver Poka	DEPTH	Notes	Hydro Team-PMEL	_	lorg	>5<	GFF	-44	FC	From 1 7 A	901	siN C'C
\$\frac{\partial \chi \chi \}{\partial \chi \} \\ \frac{\partial \chi \}{\partial \chi \} \\ \partial \chi		SALT				CEE Day	dnp ot 4	- 3		•	Total	Set No.
50 53 74 76 75 75 75 75 75 75 75 75 75 75 75 75 75												
50 40 50 50 50 50 50 50 50 60 60 60 60 60 60 60 60 60 6	=		52	>						_		2
30 30 30 30 30 30 30 30 30 30	=		53	82	ه		1 1 1 1 1 1 1 1 1		1			3
30 30 30 30 30 30 30 30 30 30			24		<u></u>							4
30 S S S S S S S S S S S S S S S S S S S			5.5	>		>			1			5
			95			>	=2					9
			42	A Å		>						7
		11.	23	->		9	=					80
	6	M					1				1	6
	10						E.					10
	11											11
	12											12
					2010							

VESSEL		CRUISE ID		PROJECT & LEG	LEG	CTD FIRE	CTD FileName:				STATION NO.		
Ocean Starr		OS 17-01		NPRB All	AIERB Leg1						108	LOS PRO	ر
											-		
CONSC CAST # L/	LATITUDE	LONGITUDE			TIME (GMT)	DRY BULB	RH	Pressure	WIND S	WIN D SPD. BO	ВОТТОМ DEPTH		STA. NAME/ID
DEG	MIN	DEG MIN	DAY	MO YR	HR MIN	(O _o)	(%)	(mb)	(deg)	(kts)	(m) 1 O		
015712	9.76N	15730.	73w13	A u g 1 7	1740						10		
SBE 9+		FLUOR S/N			WEATHER OBS:	3S:		SFC/Bo	SFC/Bottom Temp.		MAX	MAX. DEPTH =	90
PRESS SN		SBE43-0xy (pri			REMARKS:							90 +1	
PRI TEMP SN		SBE43-0xy (sec_											-
SEC TEMP SN		Transmissomete			į								
PRI COND SN		PAR S/N										,	
SEC COND SA		D2 Tmp Senson											
	1]		5	Size Good	was Street	. 61						
Nis DEPTH Roset	Rosette Notes	Hydro Team-PMEL		Chloro	0		687	Pogo	FC	Flow	E E	d c'd.	Nis
No. DESIRED	SALT	Nut.Btl O2-Btl.NDIC/AIK	DIC/AIK		to Large Vol	>20 Large VolGFF Bub V>10 dup-voli500 mi	√dπp 01	/el500 ml	-	Can		otal si	2
1 70%	7 1 1 1 1		-						حثر			3	-
2 70-				Cost14 (Cast 14			300	>		>		2
3 300					•							XX	m
4 30				Cold IY	CUG+ 14			500				•	4
5 20					1							2	5
6 20				C68 14 0	CAS+14			200			_	,	9
01 4	1 2 3 0 0 0						9 0 3 9			-		Š	7
0				Cast 14	astil			800	1				80
6								1					6
10		i											10
11			4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -						8 8 8 8				11
12		ş											12
24		4,				4							
Lessesses			1		400000000000000000000000000000000000000			- M	1				

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	eName:		STATION NO.	Dhysles
Ocean Starr	05 17-01	NPRB AIERB	Leg1			Deen End	line
				:			1354-103
CONSC CAST # LATITUDE	al-dep LONGITUDE	^ F9	TIME DRY BULB	RH Pressure	WIND D DIRN. SPD.	рертн Воттом DEРТН	STA. NAME/ID
DEG MIN		DAY MO YR HR	MIN (°C)	(qm) (%)		(m)	
0167159.53N	15313.54WI	4 Aug 17 45	1501			140p	
SBE 9+	FLUOR S/N	WEAT	WEATHER OBS:	SFC/6	SFC/Bottom Temp.	MAX. DEPTH	000} =нтн≘
PRESS SN	SBE43-0xy (pri	REMA	REMARKS:				
PRI TEMP SN	SBE43-0xy (sec						
SEC TEMP SN	Transmissomete		4				
PRI COND SN	PAR S/N	r.					
SEC COND Sh	D2 Tmp Senson						
- 17		5220	o Fractum Sh	2ch			
Nis DEPTH Rosette Notes	Hydro Team-PMEL	1 Chlora	>5	GFF POF	PC C	Cam, PA, PS	sin C C
No. DESIRED	Nut.Btl O2-Btl.NDIC/Alk	10 miles	>20 Large VolGFE Dup V>	W=10 dap vel500 ml		70.42	Preset No.
1 1000	65	3					1
2 500	60 310 :	in in	-				2
3 300 €	è.		5 J				3
4 100	62			_			4
5 75 VE	63						
6 500	64	290	Al B				9
~ Ch L	و ح			- III			7
8 30 4	00	2, "					80
J 00 6	40						6
10 10	6 &		,				10
11 0	5	_>					11
12							12
				-			

VESSEL		CRUISE ID	PROJECT & LEG	CTD fileName:	STATION NO. Phyllis'
Ocean Starr		OS 17-01	NPRB AIERB Leg1		ma-deeper t
					1364-092
CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT) DR	DRY BULB RH Pressure DI	WIND D BOTTOM DEPTH STA. NAME/ID
٥	DEG MIN	DEG MIN DAY	Y MO YR HR MIN	(°C) (%) (mb) (d	(deg) (kts) (m)
01771	1 53.83 N	15326.87WI	4 A U 9 1 7 2 2 2 P		9 kg
5BE 9+		FLUOR S/N	WEATHER OBS:	SFC/Bottom Temp.	
PRESS SN		SBE43-Oxy (pri	REMARKS:		724
PRI TEMP SN	NS	SBE43-0xy (sec			Ahmi did not
SEC TEMP SN	NS d	Transmissomete			See balton
PRI COND SN	NS O	PAR S/N			7 42
SEC COND SI	D SI	D2 Tmp Senson	 - 		
		:	_		
Nis DEPTH	Rosette Notes	Hydro Team-PMEL	Chlore	Soft Pop	SIN del AG LOD
No. DESIRED	SALT	Nut.Btl O2-Btl.N DIC/Alk	SFF VOI 20 Large Vol GE	10 Large VolGFFF To dup V 10 dup vols00 ml	-c Can Tot Beat No.
1 760		25			
2 500		7			
3 200	5	73	2.2.	e ve	
4 1000		73	248	1	
2 75 v		42	290		
6 SO	74 10.0	7.5			2.
1 40×		197			>
8 301		77			>
9 20/	-1	23			> 1
10 10		79			10
11 0		c&			\
12					12
	in a second			-	

	CRUISE ID	PROJECT & LEG	CTD FileName:	i.		STATION NO.	
	05 17-01	NPRB AIERB Leg1					
					4	8	BF4-08
LATITUDE	LONGITUDE	TIME (GMT) DR	DRY BULB RH	W Pressure DI	WIND D DIRN. SPD. BOT	BOTTOM DEPTH S	STA. NAME/ID
DEG MIN	DEG MIN	DAY MO YR HR MIN	(%) (%)	-	(kts)		
7148.00 N	115334.52WI	4 A U 9 1 7 2 3 5 0				121	
	FLUOR S/N	WEATHER OBS:		SFC/Bottom Temp.	т Тетр.	MAX. DEPTH	H= / (00)
	SBE43-0xy (pri	REMARKS:			300	•.	
PRI TEMP SN	SBE43-Oxy (sec					(63	t 60
SEC TEMP SN							
PRI COND SN	PAR S/N						
SEC COND SI	D2 Tmp Senson						
		Size Frach	ia Stuck			_	
Rosette Notes	Hydro Team-PMEL	Chlera	S GF	Job 2	20 Nov	dd 6c'	sin QQ
DESIRED	F Nut.Btl 02-Btl.NDIC/Alk			10 005low dup 015V	(am	75	Se S
	<u>&</u>				9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
7	رم م		**				2
	83				> ,		3
	84		-		>		4
	\$ 00		-		>		5
	26				<u> </u>		9
	18		# No.				4
	Co						8
4.27	68		1.1. 				6
			1 1 21 21	3			10
							11
							12
						<u> </u>	

		1	T								Nis	ġ	-	2	m	4	2	9	7	8	6	10	11	12	
	9	STA NAME/ID			о∠ =н⊥н									•									1	1	
STATION NO.	131	ВОПТОМ ВЕРТН	(m)	3/1	MAX. DEPTH		0								U U U U U U U U U U U U U U U U U U U									81	
		WIN O CPS	(kts)	31	np.		り、 イ					_													
		WIND	$\overline{}$		SFC/Bottom Temp.		15				リ		7	7	2	٤)	>			(SIII)					
	,	Pressure	+		SFC/Bo	•	(cr				POC	ve!500 ml			1		4	Table Co.				BATCHE			
CTD FileName:		I	\vdash		i		els'					10 dup													
CTD FI		DRY BUILB	(0°)		S:	-	Thy	. 0				GFF Vol >10 Large VolGFF Dup V>10 dup vel500 ml						M.							
.EG	RB Leg1	-	İΖ	- /	WEATHER OBS:	REMARKS:					3	0 Large Vol							Ā		7			Ē×	999
PROJECT & LEG	R AIERB		O YR	g 1 7	_						Chloro	: Vol >1	790	1									en e		
PR	NPRB		DAY MO	15 A u		S.							7	27/11/1							44			82 (A)	
				W 0 9								DIC/AII							7				# 15 A		
		ONGITUDE	Z Z Z	5		/ (pri	/ (sec	omete		enson	am-PME	02-Btl.N		D							0				
CRUISE ID	OS 17-01	ONOI	DEG	535	FLUOR S/N	SBE43-Oxy (pri	SBE43-0xy (sec	Transmissomete	PAR S/N	D2 Tmp Senson	Hydro Team-PMEL	Nut.Btl O2-Btl.NDIC/Alk	25	Ē	65	93	46					- 1			
5	Ö		-	Z Z		<u></u>						SALT					9			D D D D D D					
		LATITUDE	MIM	~			I				Rosette Notes	3,											=	G	
	arr		DEG	74	+	NS	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND Sh		3€D	1014	30		() () () () () () () () () ()							1007		
VESSEL	Ocean Starr	CONSC		610	\$BE 9+	PRESS SN	<u> </u>	SEC TI	<u> </u>	SEC C	Nis DEPTH	No. DESIRED	1 4	2 30	3 20	01 4	5	9	7	ω	6	10	11	12	
	_0		_		<u> </u>	Ш		<u></u>	<u> </u>	L_	كال		L			50	Daniel Co.			-			<u> </u>		

ġ. 10 4 'n 9 ∞ STA. NAME/ID MAX. DEPTH = Sharlen 76 STATION NO. **BOTTOM DEPTH** WIND D DIRN. SPD. (deg) (kts) SFC/Bottom Temp. POC Pressure GFF Vol >10 Large VolGFF Dup V>10 dup vel500 ml (mb) CTD FileName: RH % DRY BULB (°C) WEATHER OBS: 5425182W1570191171607 Leg1 HR MIN REMARKS: TIME (GMT) AIERB PROJECT & LEG Ϋ́ Chloro 290 NPRB DAY Nut.Btl |02-Btl.N|DIC/Alk Hydro Team-PMEL LONGITUDE Ζ SBE43-0xy (sec_ ransmissomete D2 Tmp Senson SBE43-0xy (pri -LUOR S/N OS 17-01 1.0. PAR S/N CRUISE ID 9 20 DEG 0 N SALT 207119.2 Nis DEPTH Rosette Notes LATITUDE Ζ 20 0 0 SEC COND SI SEC TEMP SN PRI COND SN DEG PRI TEMP SN PRESS SN No. DESIRED Dcean Starr **SBE 9+** CONSC CAST # 3 10 11 12

· 			Ţ					>				Nis	O		7	m	4	2	9	_	00	6	10	11	12		ĺ
		CHECK TO A POST			05=H							0'd	Si Pr							1	-				i	-	
O	ا دنله	 	+-	\	MAX. DEPTH		0/					00	Jak		lt.		7/		3	<u> </u>			////			-	
STATION NO.	Phy	. MOTEOR	(m)		M		404					N.			7						7					. ,	-
S	_											2	w.	>	>		7				Z,	Z					
		NIW DAIN			п Тетр.							J		7		7		>		1				5			
		+	+-		SFC/Bottom Temp.			7				POP	J.m.C	200	4°	500		500						200			
ne:		ord or	(mb)		0,		¢	Ca	115			1 1	m 00510 A die	10	~')	72		1						X 7		Ш	
CTD FileName:	_	100						Rod	8	j	Stark	GFF	V-10 de							on n t		7					
CLLC		a III a >aC	000	•	ä					n,	hun	5	PP Dap												•		
	Leg1	TIME	MIN	724	WEATHER OBS:	REMARKS:					o ha ac		> 10 Large VolGFF Bop V-10 dup-v			5-00m		300mg						500 mg			
- & LEG	AIERB	1 5	YR HR	7	WEA	REM.	1				1513	0			- -	56		30								1	
PROJECT & LEG	NPRB		MO	A u g 1								Chloro	***************************************	290		290	Table of	240		1 5		0	Ora Company Co	240	6		
			DAY	W S									C/Alk			1										·	0
		, <u>.</u>	MIN	16.63 W		ori	Sec	ietk		son		1-PMEL	02-Btl.NDIC/Alk	133						190						i)	
E ID	05 17-01	a Cilition O		7 - 6	-LUOR S/N	SBE43-Oxy (pri	5BE43-Oxy (sec	Transmissomete	PAR S/N	02 Tmp Senson		Hydro Team-PMEL	Nut.Btl 02	1 85	1	200		Q 01				CO # 03	1			7	
CRUISE ID	05 1		DEG	N	J1	- XX		<u>a</u>	A A	05		Hy		5		1		71		s.J		3	1 1 1 1 1 1				
			MIN	74								otes	SALT	2.2		0 PAR	-	5 8 4 6		201/00		58K			=1	ļų.	0 0 0 0 0 0 0 0 0 0
		ATITION		7		į	7	z	2	35		Rosette Notes			1 1	1,50		12%		253		00%				i.	
	Starr	, #	DEG	1/4/	5BE 9+	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND SI		DEPTH R	DESIRED	S S S S S S S S S S S S S S S S S S S	30	20	2	0)	0)	0:1	0	0	0	0	25 - ć	20	
VESSEL	Ocean Starr	CONSC	5	<u>ਕ</u>	28	 E			<u>K</u>	IX.		Nis	No.	1	2	m	4	2	9	7	- &	6	10	11	12		

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VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STA	ION NO.
Ocean Starr	OS 17-01	NPRB AIERB Leg1			Phy els 5
CONSC LATITUDE	ONCITIBE	TIME	7 n	NIW O QNIM	CTA MAMERIS
DEG	F	Z	(%) (mb)	(Kts)	+
227130.42	1 15406. 21WI	5 Aug 1 7 3-105			43
\$BE 9+	FLUOR S/N	WEATHER OBS:	SFC/Bottom Temp.	m Temp.	мах. DEРТН = 32
PRESS SN	SBE43-0xy (pri	REMARKS:			7
PRI TEMP SN	SBE43-Oxy (sec				
SEC TEMP SN	Transmissomete				
PRI COND SN	PAR S/N				
SEC COND SI	D2 Tmp Senson				
Nis DEPTH Rosette Notes	Hydro Team-PMEL	Chloro	POC		SIN
No. DESIRED	SALT Nut.Btl O2-Btl.NDIC/Alk	GFF Vol >10 Large VolGFF Du	up V>10 dup vdl500 ml	FC Plon Co	No.
1 40	400	790		>	
2 30	103				2.
3 20	101			>	3
4	201			\ \	4
0 2	901		28	>	S
9					9
7				1	
8)	8
6					6
10					10
11					11
12				-	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		

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Ocean Starr	05 17-01	NPRB AIERB Leg1		Phyllis 7
CONSC LATITUDE	ELONGITUDE	TIME (GMT) DRY	DRY BULB RH Pressure DIRN. SPD.	BOTTOM DEPTH STA. NAME/ID
DEG MIN	DEG MIN	DAY MO YR HR MIN ((°C) (%) (mb) (deg) (kts)	(m)
23 7142.	49 N 15345. 68W	16Aug170		51
SBE 9+	FLUOR S/N	WEATHER OBS:	SFC/Bottom Temp.	MAX. DEPTH ≧
PRESS SN	SBE43-0xy (pri	REMARKS:		46+5
PRI TEMP SN	SBE43-Oxy (sec			
SEC TEMP SN	Transmissomete			
PRI COND SN	PAR S/N			-
SEC COND Sh				
Nis DEPTH Rosette Notes	es Hydro Team-PMEL	Chigg Sis Gadi	in Stack Pope FC F	sin GG GG AG wot
No. DESIRED	SALT Nut.Btl O2-Btl.NDIC/Alk	Alk		(cem Tor Great No.
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т С	201			8
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Course C	VESSEL		CRUISE ID	PROJECT & LEG		CTD FileName:	ái		STATION NO.	
STATE STAT	Ocean Starr		05 17-01					:		:
Continue										Prod station
DEG MIN DEG MIN DAY MO YR HR MIN ("C) (%) (mi) (deg) (kts) (mi)	CONSC CAST #	LATITUDE	LONGITUDE				Pressure			Bustow Canyon STA, NAME/ID
1 1 1 2 1 1 2 1 1 2 1 1	-		MIN	MO	MIN		(mb)			
See 9+		. 59	55 14 . 25 WE	A u g 1 7	0					
PRESS SN	\$BE 9+		FLUOR S/N		WEATHER OBS:		SFC/B	ottom Temp.	MAX. I	
Figure 54 See 3-0 v (sec Houle 24 Orle Carjon	PRESS SN		SBE43-Oxy (pri		REMARKS:	ı				Í
Sec COND 58 Park Same Pa	PRI TEMP	SN	\$BE43-0xy (sec		4	Barrow	Carrio		1	
PRI COND SN	SEC TEM	NS d	Transmissomete		275	M CTD,	Only	Closed	POMPO P	
SEC COND S1 To The True of State of the Plan of the Posette Notes To Deliverant of the Plan of the Posette Notes To Deliverant of the Plan of the Posette Notes To Deliverant of the Posett	PRI CONE	NS C	PAR S/N			ex.	_		i.	~
DESIRED DES	SEC CON	D Sh	D2 Tmp Senson	M	Downcan	- date		Wir Jew	Sangle ,(1)	
DESTREE Hydro Team-PMEL Chloro Size track Calle Pop E/L Filou (am DESTREE Sair Nuclei Birlo Calle Pop E/L Filou (am DESTREE Pop Sair Nuclei Pop Nuclei				70	at 450	2				
DESIRED SALT NULLEN OZ-BUNDICAIK SFF VOI PEDEDO VOJENSON CONTRACTOR SCO. V CONTRACTO			Hydro Team-PMEL		Fract		POP	77	\sim	Nis
150 Onth mit 3 113 (200 1 Sm) 4 13 (200 1 Sm) 4 (200 1 Sm) 4 13 (200 1 Sm) 4 13 (200 1 Sm) 4 13 (200 1 Sm) 4 1		an de			Hange Vologe Sou	(1) (1) (1)	-vel560-m4	T	1	No.
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CATTUDE CONGTUDE TIME THE DAY NO YAR HR MAIN ("CO,") ("W) WIND DOWN NO YAR HR MAIN ("CO,") ("W) WIND DOWN NO YAR HR MAIN ("CO,") ("W) WIND DOWN NO YAR HR MAIN ("CO,") (Ocea	n Starr		OS 17-01	NPRB							X	90	
STATE CATTUDE CONGITUDE							-							
DEG MIN DEG MIN DOX MO YR HR MIN ("C) (%) (mb) (deg) (kts) (m) 4 4	S S	NSC T#	LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB		Pressure			TOM DEPTH		JAME/ID
Fee 3-4 See 3-4 See 3-5 See		DE				HR	(°C)	(%)	(mp)		cts)	(m)		
SECOND SIN SECURATION SIN SECURATI		12	059.		174 ug	1 7	•					7	4	
FEMANS FEMANS FEMANS FEMANS FEMANS FEMANS FAUCH		3BE 9+		FLUOR S/N			BS:		SFC/B	ottom Temp	ć	MA		
SEC TEMP SN Reservation		RESS SN		SBE43-Oxy (pri		REMARKS:								
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Second State Part State P		SEC TEMP	NS	Transmissomete			73	Some	0 W	RR				
SEC COND SI SEC C		RI COND	SN	PAR S/N				7					1	į
DESTREE SALT NULL BET OZ-BET Widto Team-PMEL Chloro SS Coff POP F.C. PLON PA PA PA PA PA PA PA P		SEC COND) Sr	D2 Tmp Senson			ì							
DESIRED SALT NULBH OZ-BH.MOIC/AIK GFF VOI 30 Large VolGEED-LA V 70 CHOW FOR 1 OF 1 TO						5. 11 ma	ction S	Hack					-	
DESIRED DES			Rosette Notes	Hydro Team-PMEL	Chlo	o o	75	CFF	JOA =	FC	Page	1 44	of de	Nis O
40 176 178 178 240 400 m2		DESIRED		Nut.Btl O2-Btl.NDI		30 Large Vol	GEE Dup V	10 dap	₩01500 mJ		Cam		of the	No
30 190 PAR 130 240 490 pl - 500 V V W. 100 pl 100 p	1	047		(621) 211	240					\ \ \	>	A		
20 196 8AR 130 240 500m2 W.Y. 10 12% RAR 131 240 500m2 W.Y. 10 12% RAR 131 240 500m2 W.Y. 10 10% BAR 2132 210 400 R 500 V V W.Y. 0 100% BAR 2132 210 400 R 500 V V W.Y.	2	30		PM PM	246				4	`	7		•	2
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10 15% PAR 10 10% PAR 10 100% PAR 10 10 10 10 PAR 10 PA 10 PAR 10 PA 10	4	0]	12% PAK	le 1	296				,					4
10 25% PAR. 10 1	2	0 }				表 5						>	75	5
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0 100% Mg (Z) 139 240 400 mc — 1	_	0.7							500	^	>	>		7
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VESSEL	SEL		CRUISE ID	PROJECT & LEG	₽ LEG	CTD FileName:	Name:			STATION NO).	
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					ll				1841			1
88	CONSC CAST #	LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB F	RH Pro	W Pressure DI	WIND D DIRN. SPD.	 	STA. NAME/ID	٥
	DE	DEG MIN	DEG MIN	DAY MO	YR HR MIN) (O _e)	(%)	p) : (qm)	(deg) (kts)	(m)		
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	5BE 9+		FLUOR S/N		WEATHER OBS:	BS:		SFC/Bottom Temp.	m Temp.	MA	MAX. DEPTH =	
	PRESS SN		SBE43-0xy (pri	i	REMARKS:			:				_
	PRI TEMP SN	NS	SBE43-0xy (sec							î		
	SEC TEMP SN	SN			ر د د	, -uhan	2 SOL))\a	7 12	W		
	PRI COND SN	SN	PAR S/N			<u>.</u>	L	ノ - -	-	\		
	SEC COND SP) Sı	D2 Tmp Senson									
				Sun	Bizz Geo	rehim St	rack					
is	DEPTH	Rosette Notes	Hydro Team-PMEL ₽	Phyt Taplor		>5 6	GFF	POP	7	How A	00 00	Zis
Š.	DESIRED	SALT	Nut.Btl 02-Btl.ND			-20 Large VolGEE Dup V-10 dup vol1500 ml	o dab o	1500 ml		Can	of General	Š.
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CTD FileName:		 B RH	%					S. S.	į		Stal	3	V>10.c					4.0		-				-		_
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	Leg1		MIN	2	WEATHER OBS:	KS:		7			100x	^	GFF Vol. 20 Large VolGFF-Bub													
LEG	AIERB	TIME (GMT)	H	1551	WEATH	REMARKS:		2			1206	0	20 Larg													
PROJECT & LEG			O YR	1917				1 1			Φ	hlore	1	7290		4 7 1						Union Transfer				
PR	NPRB		DAY MO	9 Aug							ļ	ļ	•	12	7	À	^		<u>4</u> 1, 1	3	, de	2			1 5 2	
				_ ≥ (&						×		16 ANV	DIC/AIK													
		LONGITUDE	NIW W	5.5		(pri	(sec	mete		nosu		Hydro Team-PMEL	Nut.Btl 02-Btl.N DIC/Alk			I,	CHO!									
SE ID	17-01	LONG		623	-LUOR S/N	5BE43-0xy (pri	5BE43-0xy (sec	Transmissomete	PAR S/N	D2 Tmp Senson		dro Tea	t.Btl	127	128	601										
CRUISE ID	05		DEG	<u>9</u> ~	17	28	ŽB ZB	<u>2</u> 	<u>A</u>		1	Hy		1 &	7	7	`									
		Ä	_	9								tes	SALT	3						- 73.						
		LATITUDE	MIN	\ <u>v</u>								Rosette Notes		,											i .	
	ırr		DEG	2 7 7 03		SN	MP SN	MP SN	ND SN	ND Sh	- 17		ED		, ii.,			a-5]		ů, L	3 - 1				i.	1
VESSEL	Dcean Starr	CONSC CAST #			SBE 9+	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND SP		DEPTH		33	8	0/	C									
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COUNCE CAST # C	VESSEL			CRUISE ID		PROJ	PROJECT & LEG	G	CTD F	CTD FileName:		5		STATION NO	
STEP MIND DEC MIND MIND DEC	Dcea	ın Starr		OS 17-01		NPRB								750	
STATUDE CONGITUDE CONGIT														0	
DEG MIN DEG MIN DAY MO NR HR MIN ("C) ("S") ("Th) (deg) (kts) (m) (m	SŠ	NSC ST #	LATITUDE	LONGI	TUDE				ORY BULB	R	Pressure			ОТТОМ БЕРТН	STA. NAME/ID
Set 3		DE		DEG			ΥR		(°C)	(%)	(mp)		kts)	(m)	
SECOND SIN SECURATION SECOND SIN SEC		287	3		7 . 2 V W	0	1 7	725						7	~
REMARKS: RE43-0v		5BE 9+					IW	EATHER OB.	.;;		SFC/B	ottom Tem	a.	MAX	, DEPTH =
Section Signature Section State Section		PRESS SN		SBE43-0xy	(pri		#	MARKS:							
Section Single Section Single Section Series Section Single Sect		PRI TEMP	SN	SBE43-0xy	(sec			ļ							
PRI COND SN PAR SN REC COND SN PRI THOUGHT STATE SERSON ST THO SERSON ST THO SERSON ST THOUGHT STATE S		SEC TEMP	NS	Transmisso	mete			S. R.	malar	abo	9	1 2	4		12m
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DEPTH Rosette Notes		SEC COND) Sh	D2 Tmp Se	nosu		`					5			
DEPTH Rosette Notes							151	26 FRO	return G	2em	Stade				
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TITUDE		NPRB AIERB	Leg1		Dec Car	ツ す
ATITUDE						
MIN	LONGITUDE	TIME (GMT)	IE IT) DRY BULB RH	WIND Pressure DIRN.	WIN DEPTH SPD. BOTTOM DEPTH	STA. NAME/ID
	DEG MIN DAY	Y MO YR HR	MIN (°C) (%)	(mb) (deg)	(kts) (m)	
5 1 . 1 3 N	16310.80w1	9 A ug 1 7 1 8	57		45	1
	FLUOR S/N	WEATH	WEATHER OBS:	SFC/Bottom Temp.		MAX. DEPTH =
	5BE43-Oxy (pri	REMARKS:	łKS:			
<u> </u>	SBE43-Oxy (sec			<		
	Transmissomete		INLAT CHIA	above 26m		
	PAR S/N		Jean Morring	C.	-	
	D2 Tmp Senson		station	,		
			Car Kal			
Rosette Notes	Hydro Team-PMEL のかいい	Chlore	ONIA DUMOS SO 6	FF POP FC	Row FA	SIN dd dd
SALT	Nut.Btl O2-Btl.Neichaik		GFE Vet SQ Large Vol GFF Bub V>10 dup vol 1500 ml	dup vol(500 ml	`	10t Size No.
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	ape 3	STA. NAME/ID		*	MAX. DEPTH =							sin dd dd	07 201 TNO	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	7. L	m	4	1L 5	9	2	VW/	6 7 6	10	W 11	12	
STATION NO	780	ВОТТОМ БЕРТН	(m)	44	MAX						_	Flow PA	Com			>	_	>		7	>	, -		>		
1,		WIND D DIRN. SPD.	(deg) (kts)		SFC/Bottom Temp.	C	5	9				かん		>			>			>		`				
CTD FileName:		RH Pressure	(qm) (%)		SFC		12)ci				neh	GEF POR	So Large Voleff Bub V> 10 dup-vels00 ml	200			500			205			200			
CTD FILE	1	DRY BULB	(°C)	6	OBS:		200				pretuin Str		o <mark>GFF Bub V>1</mark>											,		
PROJECT & LEG	AIERB Leg1	TIME (GMT)	YR HR MIN	1/1/1/1	WEATHER OBS:	REMARKS:					Sizz TR	hlare	VOT 10 Large V			2				•		,				
PROJE	NPRB		DAY MO	Pw 19 Aug								령	SFF									1	100000000000000000000000000000000000000		, 11, 1	
CRUISE ID	05 17-01	LONGITUDE	DEG MIN	6311.189	FLUOR S/N	SBE43-Oxy (pri	5BE43-Oxy (sec	Transmissomete	PAR S/N	O2 Tmp Senson		Hydro Team-PMEL	Nut.Bti O2-Bti.NDIC/Aik		5 5 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9											
CRI	05	Э.		0 I N I									SALT													
	tarr	LATITUDE	DEG MIN	270str.	+0	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND SI		TH Rosette Notes	DESIRED	6	0			0	0							¥ -
VESSEL	Ocean Starr	CONSC CAST #		3	SBE 9+	PRES	PRIT	SEC	PRI C	NEC (Nis DEPTH	No. DESI	1 30	2 30	3 30	4 20	5 70	9	0/ //	9	01 6	 _	11	12	

CONTROL CONT	VESSEL		CRUISE ID	PROJECT & LEG		CTD FileName:	ie:	!	STATION NO	NO.	
Continue	Dcean Star	Ŀ	OS 17-01						75	Cars 4	-
The color of the											
DEG MIN DEG MIN DAY MO YR HR MIN ("C) (%) (mb) (deg) (ks) (m)	CONSC CAST #	LATITUDE	LONGITUDE				Pressure				
1 1 1 1 1 1 1 1 1 1]			МО	MIN		(mb)	$\overline{}$			
SEC SN SECTION	_	ه.	16332.4	19 A ug 1 7	2,03					18	
PRIESES SI	SBE 9+		FLUOR S/N	_	WEATHER OBS:		SFC/E	Sottom Temp.	2		Ī
SECTION SN Repair Service Chia mark at R8m Repair Service Chia mark at R8m Repair Service Chia mark at R8m Repair Service Defrit Rosette Notes Hydro Team-PMEL (Ann. Chiago SAZ Hydro Team-PMEL (Ann. Chiago Hydro Team-P	PRESS S	Z.	SBE43-Oxy (pri		YEMARKS:						
SEC TEMP SN. PAR SN. PRI COND SN. DAR SN. SEC COND SN. DIZ TIMP Serison. DEFINE Rosette Nates Hydro Team-PMEL Gran Chip Vol Carpor Vol Carbor	PRI TEMI	P SN	SBE43-0xy (sec		- 4	なさな	3				
PRI COND SN. PAR SN. SEC COND SN. PRI SN. <t< td=""><td>SEC TEM</td><td>IP SN</td><td>Transmissomete</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	SEC TEM	IP SN	Transmissomete								
SECOND 5 DI TIMP SENSON	PRI CON	D SN	PAR S/N		#5						
DESIRED SALT NULERI OZ-BLINDIPANIL GANA Chilgro DESIRED SALT NULERI OZ-BLINDIPANIL GANA Chilgro DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GET VOI PRO GET DUT POZ-BLINDIPANIL GANA CO DESIRED SALT NULERI OZ-BLINDIPANIL GANA CO DESIRED SALT NULERI CO DESIRED	SEC CON	ND Sf	D2 Tmp Senson								
DEPTH Rosette Notes Hydro Team-PMEL Gran Gligo SALT NULBEI OZ-841.NOPPMAY SFF Vol > 20 Large VolGFP Cap V > 20 C Large Hydro Team-PMEL Gran Gligo SALT NULBEI OZ-841.NOPPMAY SFF Vol > 20 Large VolGFP Cap V > 20 C Large Hydro Team-PMEL Gran Gligo SALT NULBEI OZ-841.NOPPMAY SFF Vol > 20 Large VolGFP Cap V > 20 C Large Hydro Team-PMEL Gran Gligo SALT NULBEI OZ-841.NOPPMAY SFF Vol > 20 Large VolGFP Cap V > 20 Large Hydro Team-PMEL Gran Gran Gran Gran Gran Gran Gran Gran)9	21 Peachin	45			5		
DESIRED SAT NULBU CZ-BLINDPANT SFF VOI > 20 Large VO GFF Outprotection with the control of 20 20 20 20 20 20 20 20 20 20 20 20 20				Š	>5	GE	16	7	Flow #	4 00 pp	N.S.
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VESSEL		CRUISE ID			PROJECT & LEG	۶ LEG	CTD	CTD FileName:				STATION NO.	
Dcean Starr		OS 17-01)1		NPRB	AIERB Leg1						35.60	2001
CONSC CAST # LA	LATITUDE	TOI	LONGITUDE			TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	WIN D SPD. BC	ВОТТОМ DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR HR MIN	(°C)	(%)	(qw)	(deg)	(kts)	(m)	
327105.24N	. 2 ∠	1634	6347.45W	W 19	Augl	73215	•					43	
SBE 9+		FLUOR S/N	N/S			WEATHER OBS:	BS:		SFC/B	SFC/Bottom Temp.	Ġ	MAX.	MAX. DEPTH =
PRESS SN		SBE43-C	SBE43-Oxy (pri			REMARKS:							
PRI TEMP SN		SBE43-C	5BE43-0xy (sec		-		Ü	max	Co to	3			
SEC TEMP SN		Transmi	Fransmissomete							5			
PRI COND SN		PAR S/N			-		Q	DYCHO	0	2			
SEC COND SI		D2 Tmp	p2 Tmp Senson			7	35	7					
TOTAL TOTAL	Noton	700	TOWN TOWN DAME	Sous	The state of the s	Jily Maulun		27.00	000	i	From		6.6.6.
	ROSelle Notes	ayara	leam-rivier	375.16	7007		2	61	1	7	Cam	\$	1/2/2/
No. DESIRED	SALT	Nut.Btl	Nut.Btl O2-Btl.NDIC/MIK	CAR	SEE VOL	GEE VOL PAO Large VolGFF Ber	b	V>10 dup	w 5 80 m 				obal Great No.
1 39	0	941	^		290					_			1
2 29		147								7	7		2
3 20		148								^			9
4 10		149		7				200000		,	>		4
S 0		150	17/	72	-{					7			2
9									Start				9
7	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9												7
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		60	- 55										

VESSEL	I.E.	CRUISE ID	PROJECT & LEG	y LEG	CTD FileName:	lame:		STATIC	STATION NO.	
Ocea	Ocean Starr	05 17-01	NPRB A	AIERB Leg1				75	Sey Cap	9
								NIM		
CAS	CONSC CAST # LATITUDE	LONGITUDE		TIME (GMT) D	DRY BULB RH	H Pressure	WIND DIRN.	SPD. BOTTOM DEPTH	ЕРТН	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(%) ()»)	(mp) (9	(ded)	(kts) (m)		
	337111.86N	16412.30w	19 Alugi	7	-				44	
	SBE 9+	FLUOR S/N		WEATHER OBS:		S	SFC/Bottom Temp.	p.	MAX. DEPTH	<i>С</i> 7 − н⊥
	PRESS SN	SBE43-0xy (pri		REMARKS:	<	Jean	MUNE	an ca	~	
	PRI TEMP SN	SBE43-0xy (sec					ļ	9		
	SEC TEMP SN	Transmissomete			- he ma	X	20			
	PRI COND SN	PAR S/N			DUCMU	china	C	0		
L	SEC COND SI	D2 Tmp Senson			-				i	
				S12 0 Frac	chins S	tack.				
Nis	DEPTH Rosette Notes	Hydro Team-PMEL gown	www. Chlory >	×25 ×	3 50	9 7/J	POP CC	Low i	/d K	siN d c1 o
o N	DESIRED SALT	Nut.Btl 02-Btl.NGR.NW		λο <mark>ρίε νοι β</mark> Ω0 Large VolGEE Du	EE Dup V> 10 dup	dup velsoom!	-im	Cam,	1 da	Sizzano.
-	90	121	740				>			
2	30	152					7			2
т	25	>					7	>	-	m
4	2	55					7	`		4
5	01	A AS1					٧,			5
9	0	153	-1	7			>			9
7				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 9 9 1 1 1 1 1 1 1 1 1					7
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6										6
10	2			V						10
11							1			11
12		81		Capac			4			12
			De l		ła					
			11							

VESSEL	SEL	CRUISE ID	PROJECT & LEG	EG	CTD FileName:	ne:			STATION NO.		
Dce	Ocean Starr	OS 17-01	NPRB AIERB	RB Leg1) m (or	4	
				ll							
88	CONSC CAST # LATITUDE	LONGITUDE		TIME (GMT) DRY	DRY BULB RH	Pressure	WIND DIRN.	WIN D SPD. BC	ВОТТОМ БЕРТН	STA. NAME/ID	
	DEG MIN	DEG MIN C	DAY MO YR	HR MIN	(°C) (%)	(mb)	(deg)	(kts)	(m)		
	347120.38N	16436.35W2	2 A ug 1 7	0131					43		
	SBE 9+	FLUOR S/N		WEATHER OBS:		SFC/	SFC/Bottom Temp.	Ģ.	МАХ. DEPTH	EPTH =	
	PRESS SN	SBE43-0xy (pri		REMARKS:					-	:	
	PRI TEMP SN	BBE43-0xy (sec				,					2)
	SEC TEMP SN	Transmissomete		Chian	4× = 3	\s					
[PRI COND SN	PAR S/N		Dyeno	2 2 2 2						T
	SEC COND SI	O2 Tmp Senson									
			2	orgo Feachion	him Sh	rck		7		1.	
Nis	DEPTH Rosette Notes	Hydro Team-PMEL	Chloro	55	5 GFF	afod 2	7	3	FIRM	2 2 2	N S
ġ Z		Nut.Btl O2-Btl.NDIC/Alk	$\overline{}$	GEF-VOT > 20 Large VolGEF Du		V>10 dup vo (500 ml				Charles Freder	No.
1	39	155 239	240			Ā	>	>		1	1
2	28			-4			`				2
3	<u>৪</u>	157		ej .			_			(1)	М
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ω										8	8
6	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					1				51	6
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						N	.Tr				Ī

VESSEL		CRUISE ID	PROJECT & LEG	LEG	CTD FileName:	ne:	:	STATION NO.	
Dcean Starr		OS 17-01	NPRB AIF	AIERB Leg1				35	P
				11					
CONSC CAST # LATIT	LATITUDE	LONGITUDE		TIME (GMT) DRY	DRY BULB RH	Pressure	WIND D DIRN. SPD.	ВОТТОМ ВЕРТН	STA. NAME/ID
DEG	MIN	DEG MIN	DAY MO YR	HR MIN (°	(%C) (%)	(mb)	(deg) (kts)	(m)	
357137]_ S	16454.93W	20 A lug 17	0255				42	
\$BE 9+		FLUOR S/N		WEATHER OBS:	•	SFC/B	SFC/Bottom Temp.	MAX.	MAX. DEPTH =
PRESS SN		SBE43-0xy (pri		REMARKS:	i				
PRI TEMP SN		SBE43-0xy (sec				st v	15 Et -	most sam	noles
SEC TEMP SN		Transmissomete	X	2-1-3	2 2	Laken	pomal	ROW ON	aning
PRI COND SN		PAR S/N							~
SEC COND Sh		D2 Tmp Senson							:
-	'		Ω	ize Fracher	Stack				
Nis DEPTH Rosette Notes	Notes	Hydro Team-PMEL Go	Chlory	55	0	GEF POR	FC	Gas FA	sin dd de
No. DESIRED	SALT	Nut.Btl O2-Btl.N DIGMIK	- GEE VOI	20 Large VolGFF Dup V> 10 dup vol 1500 mi	<u> </u>	10051 pa_dr	0		That Englishe.
1 37	U SA	1 (08							1
2 30		163	3.1						2
3 20	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	701							m
4 10		165	Var.						4
5 0	8 U	991							S
9									9
	·								7
8									88
6									6
10									10
11									11
12		2.4		:					12
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	CRUISE ID	PROJECT & LEG	& LEG	CTD FileName:	me:		STATION NO		
	05 17-01	NPRB	AIERB Leg1				Jugare	e8-Indust	\ <u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\</u>
LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB RH	Pressure	WIND DIRN.	WIN D SPD. BOTTOM DEPTH	STA. NAME/ID	
MIN	DEG MIN	DAY MO Y	YR HR MIN	(%) (O ₀)		(deg)	(kts) (m)		1
6.55 _N	16455.5	1 W 3 0 A u g 1	9 147 2				7		<u> </u>
	FLUOR S/N		WEATHER OBS:	33	SFC/	SFC/Bottom Temp.		MAX. DEPTH =	
	SBE43-0xy (pri		REMARKS:						<u> </u>
	SBE43-0xy (sec_		2	epeal of	Sug Case &				
			8	10 + ()h	MAX BY	28 m	All max at	nom	
	PAR S/N	72.			/	26 an	cast		
	D2 Tmp Senson			-			/		
			Sro o Grace	hon Stac	h			1	
Rosette Notes	Hydro Team-PMEL	gunt Chlory	0	>5 GF,	JOO Ja	P.C.	Flow! FA	00 00	Nis
SALT	Nut.Bti O2-Bti.NDHG/MIII	SKT-Vel	A Large VolGEE Dup V-10 dup	EF Dup V>10	lu 005l pa dat		Cam	1000 513P2	9
)]	7 1/67	125				>			П
	168	>				>	· /		2
	697	>			. =	7	_		М
	41					>			4
	14 233	>				<u> </u>			2
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		71 9							10
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VESSEL	0	CRUISE ID	PRO	PROJECT & LEG	5	CTD FI	CTD FileName:			ST	STATION NO.		
Ocean Starr	0	OS 17-01	NPRB	B AIERB	B Leg1						3	6	
					II.								
CAST # LATITUDE	JOE	LONGITUDE			TIME (GMT)	DRY BULB	RH Pr	Pressure	WIND D DIRN. SPD.		ВОТТОМ DEPTH	STA. N	STA. NAME/ID
DEG M	MIN	DEG MIN	DAY MO	ΥR	HR MIN	(°C)	(%)	(qm)	(deg) (kts)		(m)		
377136	(%) (%)	6518.01	w 20 Aug	1 7	1559	•					41		
5BE 9+		FLUOR S/N		W	WEATHER OBS:			SFC/Bot	SFC/Bottom Temp.		MAX. DEPTH	EPTH =	
PRESS SN		SBE43-Oxy (pri		# H	REMARKS:					-			
PRI TEMP SN		SBE43-Oxy (sec			Chla P	miller o	above) JN0	above	28m)			ĺ
SEC TEMP SN		Transmissomete			4	>		-	,				
PRI COND SN		PAR S/N			0	4CMO	0	2 (-)	7	7十			
SEC COND Sh		02 Tmp Senson		1		*			7				
				≥ 5 €	o Grachin	3	back	3					
Nis DEPTH Rosette Notes	otes	Hydro Team-PMEL	D(Santo	Chlore		1,50	GFF	dod bo	FC	3	PA P	i. d	Nis C
No. DESIRED	SALT	Nut.Btl 02-Btl.NDIC/AIK		GET-101-30	20 Large VolGFF Du		V-10 dup vol500 ml	1500 ml		Cam	Total	2 5	No.
1 36		172	240	9					7				
2 28 27		173	1						/				2
3		174							>				М
4 10		175	*						~				4
5	9 9 9 9 9 9	176	> _/	(>	1			2
9													9
							à.						7
8													80
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				4				-			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	

CONSC LATTUDE LONGTUDE TIME BRIDGE RH PRESSURE DIRAN SEPTEMBRICAL CONTROL OF THE RINK CC. TO SEE 94 RESS SH REST SHI CHOS SN RELIANCE RELIANCE SEC COND SN	VESSEL		CRUISE ID	PROJECT & LEG	LEG	CTD FileName:	Name:				STATION NO	o.	
TIME	cean Si	tarr	OS 17-01				į) 200	Sold	0
ST # LATTUDE						;				_	0		
DEG MIN DEG MIN DEG MIN DEG MIN DEG MIN MO YR HR MIN (°C) (°%) (°C) (°	CONSC CAST #		LONGITUDE								TTOM DEPT		STA. NAME/ID
SE 1 4 2 2 0 1 4 5 2 1 1 1 2 2 2 1 1 1				MO	-		(%	(mp)	\Box	(kts)	(m)		
FULOR SN REMARKS: SPECACHON Tong		-	16537.154	0 A u g 1	72	•				-	4	ん	
PRESS SN PREMARKS: PREMA	SBE 5	±	FLUOR S/N		WEATHER OBS			SFC/Bc	ottom Tem	á	Ň	MAX. DEPTH	11
SEC COND St. Sate 3.0xy (sec Frank Struck Park St. Park St. Park St. Park St.	PRES	S SN	SBE43-0xy (pri		REMARKS:								
SEC TEMP SN Franch SN	R T	EMP SN	SBE43-0xy (sec										
SEC COND SN PRI COND SN Senson Size Graculus Strade DEFINE Hydro Team-PWIE Glary Chlop SS GFF POP FC CLaw FA DESIRED SALT Null BH 102-BLI N PHEATH ST PWIP AGO GIF Dup V PLO GIF Dup VP 10 GIF Dup VP 1	EC 1	EMP SN	Transmissomete	**									
SEC COND St Display Reachast Struck Struck Struck DIFTH Rosette Notes Hydro Team-PMEL Garwy Cplop > C F F POP F.C Cum T DESIRED SALT Nutr Btl O2-BLI NOFFMAT STF VMT - 70 Large Vol GFF Bug Vs. 104 dusp wt 104 dusp	<u> </u>	OND SN	PAR S/N										
DEPTH Rosette Notes	SEC	COND SP	D2 Tmp Senson										
DETITE ROSEITE NOTES HYDTO Team-PMEL Garge Chlog				15	170 GRac	hon Sta	che						
DESIRED SAIT NULL BILL OZ-841.NÖHCHÄNK GIFF VOL GAFF DUBP VY 10 4449 M 1500 m I			Hydro Team-PMEL G	ξο	0		377	POE	Fc	7	₹7 ~	dd	siN d'c'
56 36 137 243 240		36 TE		- GFF vol	0 Large VolG	FF-Dup-V*-II	∧ dnp 6	1500 ml		Cun	,	Total	Size No.
25 24 (779 V V V V V V V V V V V V V V V V V V				790		-			>				
25 24 (74 V (81 V (82) V (81 V (82) V (81 V (82) V	_	2	175		汝킯	*			7				2
\(\lambda \) \(64)	>	*				Ž	>		1 0 1 1 1 1 1 1 1	m
181 V V V V V V V V V V V V V V V V V V			C&)				i		`_				4
0		C	(81						<u>`</u>	>			Ω.
8			182	<u></u>					>				9
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	0	<u>(</u> , *											10
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	- 2			. 4									12

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	AP 11		STA. NAME/ID			EPTH - YC		ast lot					000	& 1 Size													
STATION NO.	1 Sey Car		BOTTOM DEPTH	(m)	746	MAX. DEPTH	,	Jun C		M16454)		/	PA PP														
	ļ	N N	D SPD. BOT	(kts)				L to ta		-0 m	broad		Less	Cam											1		
	:		WIND S	(deg) (k		SFC/Bottom Temp.		C_{C}	, 1	(20	20m (Y		>	7	7	/	>				ļ				
			Pressure	(mp)		SFC/Bc		C_{2}	Cart	(C)	max ~ 2		god 2	w [500 m]						2							
CTD FileName:			RH	(%)	=			ear	Rost		ماد س	h	GFL	>10 dup		>20								=			
CTD			DRY BULB	(°C)	•	iS:		2	$\sigma_{\tilde{t}}$	4	り	15 ha	60	SFF Bup V		oly Kept											
EG	RB Leg1		TIME (GMT)	HR MIN	1902	WEATHER OBS:	REMARKS:					ra hin		>20 Large VolGFF Bup V>10 dup ve 1500 ml		Soome (Only Kept	500 m		600 m								
PROJECT & LEG	NPRB AIERB			MO YR	u g 1 7							5:0 BF	Chloro	GFF 101 31	290	}	81193		1								
PR	NP			DAY	DAO'C								- Charle		7	,	<u> </u>	>	>				200				2
	01		LONGITUDE	MIN	4.73W	N/S	SBE43-Oxy (pri	SBE43-0xy (sec	Transmissomete		02 Tmp Senson		Hydro Team-PMEL 32	O2-Btl.N	(344)			-									
CRUISE ID	OS 17-01		FOI	DEG	291	FLUOR S/N	SBE43-(SBE43-(Transm	PAR S/N	D2 Tmp		Hydro	Nut.Btl	83	187	5.87	927	187								
			LATITUDE	MIN	9.69N	,						1	Rosette Notes	SALT													
EL	Ocean Starr			DEG	397149	SBE 9+	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND SI		DEPTH Rosett	DESIRED	04	36	30	5	0	ξ (Δ)			V				226
VESSEL	Dceal		CONSC CAST #		(1)	<u> </u>						L	Nis	No.		2	м	4	10	9	7	80	6	10	11	12	

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VESSEL	SEL		CRUISE ID	PROJECT & LEG	CTD FileName:	Name:		STATION NO.	NO.	
Oce	Ocean Starr		OS 17-01	NPRB AIERB	[ed]			<u> </u>	60.7)	
88	CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)	DRY BULB	RH Pressure	WIND DIRN.	WIN D SPD. BOTTOM DEPTH		STA. NAME/ID
	IQ	DEG MIN	DEG MIN DAY	MO YR HR	(°C)	(qm) (%)	(deg)		┝	
0	12040	149.77N	16604.73W2	0 A U 9 1 7 6 9 2 4	24				77	
	SBE 9+		FLUOR S/N	WEATH	WEATHER OBS:	SF	SFC/Bottom Temp.		MAX. DEPTH	19
	PRESS SN		SBE43-Oxy (pri	REMARKS:	łKS:					
	PRI TEMP SN	NS	SBE43-Oxy (sec		Prod Cast					
	SEC TEMP SN	NS o	Transmissomete	Σ	7	53				
	PRI COND SN	NS (PAR S/N							
	SEC COND SA) SA	D2 Tmp Senson	<u>.</u>		:				
		1		3120 E	Ruetuin Stow	.h			į	
Nis	DEРТН	Rosette Notes	Hydro Team-PMEL	Chlore		GCF POP	7	121 cm	00 4	SIN QQ
ģ	DESIRED	SALT	lv	GFF VOI	-20 Large VolGFF Bap V=10 dup wols00 ml) - dup - wol500 r.	le	Cam	10/26	2,5 2,4 2,4 2,4 2,4 3,4 3,4 4,4 4,4 4,4 4,4 4,4 4,4 4,4 4
	33	1.5% PAR		100 E					1 200	V: / 1
7	33	र प्राथम मार्थिक								V V 2
т	35	l Nger				58	0	>		м
4	50	22 6%PAK	A	The state of the s		80	Ċ		AAA	4
ζ.	20	5 7118 2013			-			>		5 2
9	20	う								9
7	01	25% PAR		7		005	0			7
00	c	33) (1)			***				7.4.4	8
თ	0	100% PAR							1444	6
10	0					SeO	0		•	10
11	Q		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					>		11
12										12
-		-		ari						
								·		

10 12 11 2 m 4 S 9 00 Ó STA. NAME/ID STATIONNO.
Cape Lishums 14 MAX, DEPTH Chal 00 BOTTOM DEPTH 3 P.A Clar Can WIND D DIRN. SPD. (deg) (kts) SFC/Bottom Temp. Bay CWa max > Poc Pressure GET VOL 120 Large VolGFF Bub V-10 dup vol500 ml (mb) CTD FileName: GFF RH 8 Size Grachin Stack DRY BULB (°C) WEATHER OBS: 1408 300 HR Min REMARKS: Leg1 TIME (GMT) AIERB PROJECT & LEG 16854. 16W 21/A/19/17 ΥR 066 NPRB Θ DAY Hydro Team-PMEL physic Nut.Btl | 02-Btl.NBIG/MIK-LONGITUDE Ζ 52 Tmp Senson ransmissomete SBE43-0xy (sec SBE43-Oxy (pri LUOR S/N OS 17-01 6 5 1 PAR S/N 281 CRUISE ID 681 150 131 DEG z SALT 190001) Nis DEPTH Rosette Notes LATITUDE Z DEG SEC TEMP SN PRI COND SN SEC COND SI PRI TEMP SN PRESS SN No. DESIRED 32 Ocean Starr 0 2 SBE 9+ CONSC CAST # 0 マワ VESSEL 11 10 12 m S 9 4 ∞ 6

Ledyard bay

				Layard way
VESSEL	CRUISE ID	PROJECT & LEG CT	CTD FileName:	STATION NO.
Ocean Starr	05 17-01	NPRB AIERB Leg1		Capeliz 13
	-			
CONSC CAST # LATITUDE	LONGITUDE	TIME (GMT) DRY BULB	WIND WIND D RH Pressure DIRN. SPD.	BOTTOM DEPTH STA. NAME/ID
DEG MIN	DEG MIN DAY	YR HR MIN (°C)	(%) (mb) (deg) (kts)	(m)
4270 KS. 63	N - 6833 - 36 W 2	1 Aug 1 7 1 5 3 0		7,
SBE 9+	FLUOR S/N	WEATHER OBS:	SFC/Bottom Temp.	мах. DEРТН = '38
PRESS SN	SBE43-0xy (pri	REMARKS:		
PRI TEMP SN	SBE43-0xy (sec	CNA NA	12- below pyc.	
SEC TEMP SN	Fransmissomete			
PRI COND SN	PAR S/N			
SEC COND SP	D2 Tmp Senson			
		Dizg Kachan S	Stack	
Nis DEPTH Rosette Notes	Hydro Team-PMEL Schwy	Chlory >>	GFF POP FL B	IN 6/6/ 99 AF S
No. DESIRED SA	SALT Nut.Btl 02-Btl.NDIG/Mik	5	1500 ml	n, 1 10/40 5131 No.
<u>ා</u> දිහි	193	200		
2 30	194		4	2
3 30				m
4 60	156	644		4
5 0	11 197 266	<u> </u>		2
9				9
7				
8				Φ;
6				6
10				10
11				11
12				12
207				

Ledyaes Bay

VESSEL	E		CRUISE ID	PROJECT & LEG	CTD FileName:		STATION NO.	2
Dcea	Ocean Starr		05 17-01	NPRB AIERB Leg1			Capets	(2)
Č	(-7:			
38	CAST #	LATITUDE	LONGITUDE	TIME (GMT) DRY	DRY BULB RH Pressure	wind D ure DIRN. SPD.	воттом рертн	STA. NAME/ID
	30	DEG MIN	DEG MIN DAY	MO YR HR MIN	(°C) (%) (mb)	(deg) (kts)	(m)	
	434	009.900	16808.07w21	1 Aug 17 1 700			76	
	5BE 9+		FLUOR S/N	WEATHER OBS: (Overlast	SFC/Bottom Temp.	MAX. DEPTH	TH =
	PRESS SN		SBE43-0xy (pri	REMARKS:				
	PRI TEMP SN	NS	SBE43-Oxy (sec				_	
	SEC TEMP SN	NS	Transmissomete	Chla	mex 97m	(WITHIN	DVC \	
	PRI COND SN	NS	PAR S/N		,			
	SEC COND SI	J.S.F.	D2 Tmp Senson					
				S'39 markin	Stack			
Nis.	ОЕРТН	Rosette Notes	Hydro Team-PMEL	Chloro > >	- CFF P	POG F-C /	The Fit ? A	Nis O'O
No.	DESIRED	SALT	Nut.Btl O2-Btl.NDIC/Alk	GRE-VOT 20 Large VolGFF Du	m 005 <mark>0 4 qub 01 <- √ qu</mark>		Cern 1 , Pote	ed Green No.
-1	17		851	290		<u> </u>		1
2	30	ンチ	669	V,500			20	2
Э	20		200	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	>		m
4	01	10	100			^		4
5	0		302	× 500 +		>		5
9		艺术	, ,	A 49				9
7								7
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6		lan .	-					6
10								10
11		D. S.				9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		11
12		. Zani					-	12
		i.	***					
	1							

10 11 9 ω STA. NAME/ID N Ledycurd Bour MAX. DEPTH 0 10 BOTTOM DEPTH 3 Cam WIN D SPD. (deg) (kts) SFC/Bottom Temp. Cert WIND DIRN. 43 POOG Pressure 800 500 GFF VOT > 10 Large Voi GFF Bup V>10 dup vels00 ml 560 8 (mb) CTD FileName: RH 8 DRY BULB Cart 43 WEATHER OBS: 12/1 HR MIN Leg1 REMARKS: L(GMT) AIERB PROJECT & LEG Cust 43 7 ΥR Augl NPRB Θ DAY 30W21 Nut.Btl | 02-Btl.N|DIC/Alk Hydro Team-PMEL LONGITUDE Ξ D2 Tmp Senson SBE43-0xy (sec_ ransmissomete SBE43-0xy (pri حر) LUOR S/N OS 17-01 CRUISE ID PAR S/N 8 DEG Z SALT 7 25% PAR Rosette Notes PAR. \mathcal{C} -ATITUDE 28 Z \mathcal{C} %9 SEC TEMP SN PRI COND SN SEC COND SI 0 DEG PRI TEMP SN 4 PRESS SN DESIRED Nis DEPTH 2 Ocean Starr 9 2 SBE 9+ 46 77 0 CONSC CAST # VESSEL <u>8</u> 10 12 _ 11 m 4 9 ω 6 2

Ldroed bay

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	LAYOLA DOLL STATION NO.	
Č	10 21 30	i L		000	-
Dcean Starr	03 1/-01	NPRB AIERB LEGI		Compact 5	17
CONSC CAST # LATITUDE	E	TIME (GMT) DR	DRY BULB RH Pressure	WIND D BOTTOM DEPTH	STA. NAME/ID
DEG	DEG MIN	z	(mp) (%)	(kts)	
457003.	62N16739.17W	21 Aug 172035		54	23
58E 9+	FLUOR S/N	WEATHER OBS:		SFC/Bottom Temp. MAX. DEPTH	:PTH =
PRESS SN	SBE43-Oxy (pri	REMARKS:		<i>\</i>	off
PRI TEMP SN	SBE43-0xy (sec				
SEC TEMP SN	Transmissomete				
PRI COND SN	PAR S/N				
SEC COND Sh	D2 Tmp Senson				
		Diza Machun	Stack)	
Nis DEPTH Rosette Notes	es Hydro Team-PMEL	Chloro 0 >	S GFF POR	FC Now FA	SIN OC do
No. DESIRED	SALT Nut.Btl 02-Btl.NDIC/Alk	GE PVSF	>30 Large Vo GFF Dup V>10 dup val500 ml	Cem 10	obal They No.
1 42	203 249				1
2 30	hor		827		2
3 30	32	S = 0	1		m
0/ 4	38		3.4		4
2	7.00				2
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208 Undreway

10 11 12 ģ 2 m 4 S 9 ∞ 6 STA. NAME/ID Ledyand Say 10 STATION NO. Cape Lr 210 MAX, DEPTH 77 **BOTTOM DEPTH** WIND D DIRN. SPD. (deg) (kts) SFC/Bottom Temp. ET-> Pressure POC >10 Large VolGFF Dup V>10 dup vel500 ml (mb) -20m CTD FileName: H H 8 2 DRY BULB M.(.X (°C) WEATHER OBS: Leg 1 . 29w21 ARG 17 2312 HR MIN REMARKS: TIME (GMT) AIERB ΥR Chloro GFF Vol 290 NPRB Θ \Rightarrow DAY Nut.Btl | 02-Btl.NDIC/Alk Hydro Team-PMEL LONGITUDE Ζ Fransmissomete 02 Tmp Senson 5BE43-0xy (sec SBE43-Oxy (pri 713 LUOR S/N OS 17-01 PAR S/N CRUISE ID 200 210 241 DEG 0 466957,54N SALT Nis DEPTH Rosette Notes LATITUDE Z SEC TEMP SN PRI COND SN SEC COND SI DEG PRI TEMP SN PRESS SN DESIRED Dcean Starr SBE 9+ 20 2 0 3 CONSC CAST # VESSEL 10 12 4 'n 11 9 ω 6

10 4 11 2 m 5 9 ~ ∞ σ STA. NAME/ID edyard Bou MAX. DEPTH 70 00 7 **BOTTOM DEPTH** FA (E) Lon Cerr WIND D DIRN. SPD. (deg) (kts) SFC/Bottom Temp. 7 POP Pressure SFF Vol 1520 Large VolGFF Bup V> 10 dup vols00 ml (mb) CFF CTD FileName: Chila make = 20 Sank RH % DRY BULB (°C) Dizo Machin WEATHER OBS: 2309 AIERB Leg1 HR MIN REMARKS: TIME (GMT) PROJECT & LEG 166491.20W21 AUB117 X 290 NPRB Θ DAY Nut.Btl | 02-Btl.N DIC/Alk Hydro Team-PMEL 2172 Ju LONGITUDE Z Σ SBE43-0xy (sec_ ransmissomete 02 Tmp Senson SBE43-0xy (pri LUOR S/N 05 17-01 77C 757 216 SIB PAR S/N CRUISE ID K SALT 476952.9 Nis DEPTH Rosette Notes LATITUDE Ζ DEG SEC TEMP SN PRI COND SN SEC COND SA PRI TEMP SN PRESS SN No. DESIRED Dcean Starr 20 SBE 9+ 80 S 6 0 CONSC CAST # 10 Ξ 12 6 4 S 9 ∞

10 9 4 ∞ 6 STA. NAME/ID Led yourd Bay & STATION NO. MAX. DEPTH 7 **BOTTOM DEPTH** 士 Clow 3 WIND D DIRN. SPD. (deg) (kts) SFC/Bottom Temp. FC 3 POC Pressure GEE Vol. | 20 Large Vol GFE Dup V>10 dup ve | 1500 ml (mb) GFF CTD FileName: Dize hearbun Stack RH % DRY BULB WEATHER OBS: Legl HR MIN REMARKS: TIME (GMT) AIERB PROJECT & LEG X 240 NPRB Θ DAY Nut.Btl | 02-Btl.N DIC/Alk Hydro Team-PMEL 6626.6 LONGITUDE D2 Tmp Senson SBE43-0xy (sec ransmissomete. SBE43-0xy (pri LUOR S/N OS 17-01 PAR S/N 232 223 CRUISE ID 320 67°C 166 DEG z SALT 7 0 Rosette Notes LATITUDE Σ £ 76987 SEC TEMP SN PRI COND SN SEC COND SP DEG PRI TEMP SN PRESS SN DEРТН DESIRED 200 Dcean Starr SBE 9+

CONSC CAST #

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VESSEL	SEL	<u>5</u>	CRUISE ID	PROJECT & LEG	x LEG	<u> </u>	CTD FileName				STATION NO.		
Dcean	an Starr	05	5 17-01	NPRB /	AIERB Leg1						Capeliz	12 7	
					33								
రర	CONSC LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	WIN D SPD. B(ВОТТОМ DEPTH	STA. NAME/ID	QI/:
	DEG MIN		DEG MIN D	DAY MO YR	HR MIN	(°C)	(%)	(mb)		(kts)	(m)		
0	496941.2	z	16605.29W	22 A u g 1	70245	•					4/		
	\$BE 9+		FLUOR S/N		WEATHER OBS:	BS:		SFC/B	SFC/Bottom Temp.	á	MAX.	MAX. DEPŤH =	
	PRESS SN		SBE43-Oxy (pri		REMARKS:								
	PRI TEMP SN		5BE43-0xy (sec			5							
	SEC TEMP SN		Transmissomete			2	000	Max 1	Bon				
<u> </u>	PRI COND SN		PAR S/N		:								
	SEC COND Sh		02 Tmp Senson										
					Dus Suca	uhun	Stre	N					
Nis	DEPTH Rosette Notes		Hydro Team-PMEL	Chlorg		>5	976	POL	PC	The	W. FA (c'd dd	Nis
Š	DESIRED	SALT	Nut.Bti O2-Bti.NDIC/Alk	GEE VOL	20 Large Vol GFF Dur	GFF Dup V	>18 dup	₩1500 ml		Cum	4	Total End	No.
	34		224 722	240									1
2	30		225								,		2
<u></u> က	20		226						/				3
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CONSC CAST # LATITION OF CAST # LATITION OF CAST # LATITION OF CAST # LATITION OF CAST PRESS SN PRESS SN PRI TEMP SN SEC TEMP SN SEC TEMP SN	TUDE VIIN	OS 17-01	NPRB AIERB Leg	1			Cerps	16,6	
DEG CON SSN EMP SN			\(\frac{1}{2}\)						
DEG DEG + + S SN EMP SN EMP SN	_ <u> </u>	ONGITIME	AU) _	DRY RI II R	BH Procento	WIND	WIN D SPD ROTTOM DEPTH		CTA NAME/ID
SN SN MP SN	0	DEG MIN DAY	MO YR HR	(O _e)	\top	(deg)		\vdash	
SBE 9+ PRESS SN PRI TEMP SN		16544.150W2	3 A 4 9 1 7 0 Y					37	
PRESS SN PRI TEMP SN SEC TEMP SN		FLUOR S/N	WEATH	WEATHER OBS:	SFC/	SFC/Bottom Temp.		MAX. DEPTH =	
PRI TEMP SN SEC TEMP SN		SBE43-Oxy (pri	REMARKS:	IKS:					
SEC TEMP SN		SBE43-0xy (sec		hi	ches ch	Less	0/0 B	5	
		Transmissomete							-
PRI COND SN		PAR S/N							
SEC COND Sh	=	O2 Tmp Senson	 						
	•		16120 C	nachum Stau	K				
Nis DEPTH Rosette Notes	Notes	Hydro Team-PMEL	Chlorg	>5	H POE	FC	Charl F	A - PP - 1	Nis Nis
No. DESIRED	SALT	Nut.Bti O2-Bti.NDIC/Alk		>20 Large VolGFE Dup V > 10 dup vol500 ml	ш 00510 м фир (Cem	10t S.	Se No.
1 30		229	240			7			1
2 30		200				>	7		2
3 10	Ť.	188				>			m
0 4		232				7			4
5	×								5
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6			3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						6
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4 8									

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VES	VESSEL	CRUISE ID	PROIECT & 1EG	CTD FileName:		STATION NO	
			}				
ŏ	Ocean Starr	OS 17-01	NPRB AIERB Leg 🕻			Capa 425	
)	
ζū	CONSC CAST # LATITUDE	LONGITUDE	TIME (GMT) DRY I	DRY BULB RH Pre	WIND D Pressure DIRN, SPD.	воттом рертн	STA. NAME/ID
	DEG MIN	DEG MIN DAY	MO YR HR MIN	(°C) (%) (r		(m)	
	516929.98 N	16522.46W23	2 Sep 1 7 0535			33	
	\$BE 9+	FLUOR S/N	WEATHER OBS:		SFC/Bottom Temp.	MAX. DEPTH =	29
	PRESS SN	SBE43-0xy (pri	REMARKS:				
	PRI TEMP SN	SBE43-0xy (sec	- - - -	nlon his	5 O 18	25	
	SEC TEMP SN	Transmissomete					
	PRI COND SN	PAR S/N			:		
	SEC COND Sh	22 Tmp Senson					
			Bisp Cracker	nspack			
Nis	DEPTH Rosette Notes	Hydro Team-PMEL	Chlory 8 >5	275	POP FC	flow 12/1/1/2.	siN of C
o N	DESIRED SALT	Nut.Btl 02-Btl.NDIC/Alk	GFF vor 120 Large VolGFF Du	2	00 ml	Cem, Total a	Suz No.
н	57	233 273	240			-	П
2	20	234				<u> </u>	2
m	07	235					
4	0	236					4
2							5
9							9
7							7
8			12.4				ω
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10						=	10
11			1 d d d d d d d d d d d d d d d d d d d				11
12						:	12
	Z.						
		·					

 ∞ m 9 STA. NAME/ID Le dy and Lay 4 MAX. DEPTH = ρ **BOTTOM DEPTH** 3 2 WIND D DIRN. SPD. (deg) (kts) SFC/Bottom Temp. Z Z 30 2 POC Pressure GFF Voi >10 Large VolGFF Dup V>10 dup veisoomi (mp) Lon CTD FileName: RH % DRY BULB () () WEATHER OBS: W/2 39 1 7 06 59 Leg 1 HR MIN REMARKS: TIME (GMT) AIERB PROJECT & LEG Ϋ́R Chloro 240 NPRB Θ DAY Nut.Btl | 02-Btl.NDIC/Alk <u>о</u> Hydro Team-PMEL LONGITUDE Z SBE43-0xy (sec Transmissomete 02 Tmp Senson SBE43-Oxy (pri 6500. LUOR S/N OS 17-01 238 240 PAR S/N 239 237 CRUISE ID . 50 SALT Nis DEPTH Rosette Notes LATITUDE Ζ 526924 SEC TEMP SN PRI COND SN SEC COND SP DEG PRI TEMP SN PRESS SN No. DESIRED Ocean Starr 20 SBE 9+ 0 K CONSC CAST # <u>'ESSEL</u> 10 12

		<u> </u>	1	1	<u> </u>	1 3 X	_	<u> </u>	Ų		_	.v	ć	1					. 1		- 1	. 1			<u></u>	
	20 00	i i	SIA. NAME/ID		PTH ≈	s offs hu	1-1.00	Sam 15	Cast 01			sin del	ot Share No.	1	2	٣	4	2	9		8	6	10	11	12	
STATION NO.	Pt HUP		(m)	8	MAX. DEPTH	5 him 1 ;	()	mplan!	Soak Got	Lined a		Flow IFA ?	1		\										•	
		NIW O			نه	Llai		Sam	1	25		F	Can			د ـ								_		
		WIND	$\overline{}$		SFC/Bottom Temp.	5		ant	ر م	2		FC		>	7	7	7		İ	3 9 3 3 3 1						
		1	(mb)		SFC/Bot	s hone		not sh	~ delle	Duch	٠.	Pod	v 1500 ml													
CTD FileName:		ā	EN (%)			χ. 9	.	1	5	73.	She	475	10 dup											1		1
CTD FI		2	(°C)		ë	\$ 5		A Cou	tan the	9	FUN STA	5	FF Dup V>			7			į	, A			5.74			
LEG	AIERB Leg 🕽	1	72	─ ^	WEATHER OBS:	REMARKS:		4	73		20 black		>10 Large VolGFF Dup V>10 dup vol500 ml													
PROJECT & LEG	NPRB AIE		MO YR	0 1							<u>^</u>	Chlorg	(197,319)	220	. A			387			V = , ·	== -: 		P .		
			DAY	8 W W 2 2								MAR	:/Alk			>	2									0
	1	I GILL	MIN	55.84	N/S	xy (pri	SBE43-Oxy (sec_	Transmissomete		Senson		Hydro Team-PMEL GANN	O2-Btl.NDIC/Alk				276									
CRUISE ID	05 17-01	2		1665	FLUOR S/N	5BE43-0xy (pri	SBE43-0	Transmi	PAR S/N	D2 Tmp Senson		Hydro	Nut.Btl	126	SHS	She	THE					ľ		1 1 1 1 1 1		
Ō	0		-	Z 0									SALT													
		E FIFY		ر ب ه								Rosette Notes														
	Ocean Starr	SC 1SC	# DEG	5	SBE 9+	PRESS SN	PRI TEMP SN	SEC TEMP SN	PRI COND SN	SEC COND SP		DEPTH RO	DESIRED	2	8	S	0							4	1	
VESSEL	Dcear	CONSC	3	-5	Ś			<u> </u>				Nis	No.	П	2	9	4	2	9	7	00	6	10	11	12	

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VESSEL	CRUISE ID	PROJECT & LEG		CTD FileName:		STATION NO.	N NO.	
Ocean Starr	OS 17-01	NPRB AIERB	B Leg *			10	1000	4
			ļļ .					
CONSC CAST # LATITUDE	LONGITUDE		TIME (GMT) DRY BULB	RH Pressure	WIND DIRN.	WIN D SPD. BOTTOM DEPTH		STA. NAME/ID
DEG MIN	DEG MIN D	DAY MO YR	HR MIN (°C)	(m) (%)	(deg)		\vdash	
546814.6AN	16707.10w2	2 Sep 1 7 1	929				43	
SBE 9+	FLUOR S/N	M	WEATHER OBS:	SF	SFC/Bottom Temp.		MAX. DEPTH	H=
PRESS SN	SBE43-0xy (pri		REMARKS:					
PRI TEMP SN	SBE43-Oxy (sec							Ĭ
SEC TEMP SN	Transmissomete		Chila higlest	10-28,	. &			
PRI COND SN	PAR S/N							
SEC COND Sh	D2 Tmp Senson	<u> </u>						
		150	20 maching St	ach				
Nis DEPTH Rosette Notes	Hydro Team-PMEL	Chlorp	>>	OFF PC	Pod CZ	Flow F	de t	Nis Nis
No. DESIRED SALT	Nut.Btl O2-Btl.NDICALK	10.77	> 30 Large VolGFF Bup V → 16	10 dup vol500 ml	<u></u>	25	Tot	13/30 + No.
1 38 14	245	067			_			1
2 30	246	_	500 Mg					2
3 20	7 247	\			<u> </u>			E C
07 4	246		300 mg -	}				4
6	7 548	<i>∧ T</i>	300 ml		>			5
9								9
7				× ,				7
8								80
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10			13					10
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12				_15				12
						5		
	Sal		1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Dcean Starr	OS 17-01	NPRB AIERB Leg 3		Pout that 7
		(**
CONSC CAST # LATITUDE	LONGITUDE	TIME DRY BULB	SULB RH Pressure DIRN. SPD.	N) D. BOTTOM DEPTH STA. NAME/ID
DEG MIN	DEG / MIN D	DAY MO YR HR MIN (°C)	c) (%) (mb) (deg) (kts)	(m) (s)
0556817.73	N 16707.18WA	3568171950		7 7
SBE 9+	FLUOR S/N	WEATHER OBS:	SFC/Bottom Temp.	MAX, DEPTH =
PRESS SN	SBE43-0xy (pri	REMARKS:		36+5
PRI TEMP SN	SBE43-0xy (sec			
SEC TEMP SN	Transmissomete		PRUS COUST	
PRI COND SN	PAR S/N			
SEC COND SF	D2 Tmp Senson			
		Sing boardien	Stack	
Nis DEPTH Rosette Notes	Hydro Team-PMEL	Chlory 0 >5	GET POP FC	SIN CC OF HI MOJA
No. DESIRED SALT	LT Nut.Btl O2-Btl.NDIC/Alk	GEF VOI- 320 Large VolGFF Bu	m 005lpm dnb 05 - A - C	(am) 21 27 20 No.
1 30 19,842		Cust 54 for a	COS 714	
2 30		+0+11 + 512c	Gal	7
3 20 5%				M/ 3
4 20			£09	4
5 23 12 13		27		>
%71 Ct 9				9
1 19 Barbara	cet)			- AAA
0) 8			cos	8
9 0 100% PAR				6
10 6 1			800	V V 10
11				7//
12				12
	d-n-n-n-n-n-n-n-n-n-n-n-n-n-n-n-n-n		ssaaskaassaassaas Newsersunkennessaas	

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:			STATION NO.	
Ocean Starr	05 17-01	NPRB AIERB Leg 3		ļ		Pt Hove 6	90
					MAIN		
CAST # LATITUDE	LONGITUDE	TIME (GMT) DRY BULB	RH	Pressure	WIND D DIRN. SPD.	BOTTOM DEPTH	STA. NAME/ID
DEG MIN	DEG MIN DAY	Y MO YR HR MIN (°C)	(%)	(qm)	(deg) (kts)	(m)	
566811.69N	N/67/8.33W2	25et 172041				27	
SBE 9+	FLUOR S/N	WEATHER OBS:		SFC/Bo	SFC/Bottom Temp.	MAX. DEPTH	EPTH =
PRESS SN	SBE43-Oxy (pri	REMARKS:					
PRI TEMP SN	SBE43-0xy (sec						
SEC TEMP SN	Transmissomete						
PRI COND SN	PAR S/N						
SEC COND Sh	D2 Tmp Senson						
Nis DEPTH Rosette Notes	Hydro Team-PMELCスムバト	Chloro	· Taras	POC			Nis
No. DESIRED SALT	T NUT.BU 02-BU.NDIC/AIK	GFF Vol >10 Large VolGFF Dup V>10 dup velisoom	V>10 dup v	/ol500 ml	PC ,	Flow Cam	o N
1 4/-	DS (6)	240					
2 30	257	Accession			7		2
3 30	252				7		М
4 (0	253				7		4
S 0	1 8t2 tse				>		5
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12							112
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VESSEL		CRUISE ID	PROJECT & LEG	CTD FileName:			STATION NO.	
Ocean Starr		05 17-01	NPRB AIERB Leg 3				PT HOSE	15
				-				
CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)	DRY BULB RH	Pressure	WIND D DIRN. SPD.	BOTTOM DEPTH	STA. NAME/ID
T)	DEG MIN	DEG MIN D	DAY MO YR HR MIN	(%) (C)	(mb)	(deg) (kts)	(m) (m)	
576	76807.81N	16730.60WB	25 pl 7 2 39				\$	
SBE 9+		FLUOR S/N	WEATHER OBS:	Š:	SFC/Bo	SFC/Bottom Temp.	MAX. DEPTH	PTH =
PRESS SN	2	SBE43-0xy (pri	REMARKS:					
PRI TEMP SN	NS o	SBE43-0xy (sec						
SEC TEMP SN	P SN	Transmissomete						
PRI COND SN	D SN	PAR S/N						
SEC COND SI	ID SI	22 Tmp Senson	- -		1			-
Niio T-OHO	Pocotto Motor	Livery Team DME	H		200			2
	\rightarrow	nydio lealli-rivie Con	Cuiolo		2	,		2
No. DESIRED	D	Nut.Btl O2-Bti.NDIC/Alk	GFF Vol. >10 Large VolGFF Dup V>10 dup vql500 ml	GFF Dup V>10 dup	vol500 ml	Ĭ	Flow Carry	No.
1 46		2556	19 0			2		1
2 30	Strake, T.	336				>		2
3 20	19	/ £56				Ş	7	7.MV
1 D		258	2			2)	4
5 10		259		· · ·				5
9			45.	*				9
7	د آيم		5.5		7			7
8	i de esta de la companya della companya della companya de la companya de la companya della compa							. 8
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11	;							1
12		-						12
						1		

VESSEL	CRUISE ID	EID	PROJECT & LEG	& LEG	CTD F	CTD FileName:			STATION NO.	
Ocean Starr	OS 17-01	7-01	NPRB /	AIERB Leg					27 HORE	7 20
		,						3		
CONSC LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB	ВН	Pressure	WIND D DIRN. SPD.	D. BOTTOM DEPTH	STA. NAME/ID
DEG MIN	DEG	M	DAY MO YR	HR MIN	(°C)	(%)	(dm)	(deg) (kts)	(m) (s	
586800.7	8 N 1 67	75) . 80w	22 Sep 1	7 23 OB	•				15	
SBE 9+	FLUC	FLUOR S/N		WEATHER OBS:	:3:		SFC/Bo	SFC/Bottom Temp.	MAX. [MAX. DEPTH =
PRESS SN	SBE	SBE43-Oxy (pri		REMARKS:						
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Nis DEPTH Rosette Notes	Hyd	Hydro Team-PMEL	Ayt Chloro				POC			Nis
No. DESIRED	SALT Nut.Btl	.Btl O2-Btl.NDEWN	NGFF VOI	>10 Large VolGFF Dup V>10 dup vol500 ml	GFF Dup V>	-10 dup	ve 1500 ml	ア て	Flow Cam	No.
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DEG MIN DEG MIN DON MO YA HA MIN ("C) ("W) (reg) (RES) (RT)		LONGITUDE		Æ	WIND DIRN.	ВОТТОМ ВЕРТН	TA. NAME/ID
SEGNO SEGN		MIN	MO YR HR MIN	(%)	(deg)	(m)	
FERS SN FRES SN SECRETARY SECRETAR	54.4	16212.91	Sep 170/4			57	
Per 1949 St. Per 1949 Sect 3-0 v	SBE 9+	7	WEATHER OBS:		SFC/Bottom Temp.	MAX. DEPT	V)
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Part Sun Part Sun	SEC TEMP SN	Transmissomete		7			
DEFITH Rosette Notes Hydro Team-PMEL Gran Chloro Pope FC Pop FC Pop FC<	PRI COND SN	PAR S/N	- Chila	15-	7		
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