VESSEL				CF	RUISE ID		****		PROJECT &	LEG		<del></del> -							STATION	LNO.		
NOAA:	S <i>Osca</i>	r Dyson		ם	Y2107				PACMAN		GOA		- 1						s	1	н '	١
	T		-		12101	··· · <del>:;-</del> ··:-			TI AGNIAN	2021	JOA										1	
1	- 1																					
CONS		LATITUI	ne -			ONGITUDE					Thus (	or earl	DOM DI		<sub>~</sub> .	_		WIND				
CASI		EG MI			DEG	MIN	<del>  </del>	DAY	МО	YR	TIME (	MIN	DRY BU		RH (%)	Pressure (mb)	WIND DIRN.	SPD. (kts)	BOTTOM D		STA. N	AME/ID
00	$\overline{}$	743.	$\overline{}$	10	4174							02							(m)	100		
		177	لل	(0 N 1			w 0	03	A U G	2 1			13	. 5	080	1018	43	29	9	790		
SBE !					Fluor/Tur	_				i	WEATHER	OBS:				······································			***************************************	MAX DE	PTH - 90	19.6
-	S SN emp SN	···		<del></del>	SBE 43-Oxy SBE 43-Oxy					ı	-		······							····		
	Temp SN			<u> </u>	Altimeter	(sec)				i	REMARKS											
	and SN				PAR S/N	_					NEM-MIN	', '				·····			***************************************			
Sec (	Cond SN							•					<del></del>						<del></del>			
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	instrumen	l Notes:								i												************
$\vdash$																				Recorder Initia	· JLC	
Nis D	epth	CTD Notes			Hydro Tean	n-PMEL			Chloro		•	•		"		i "			Comi	ments		Nis
No De	esired			Salt	Nut.Bt!	02-Btl.No			GFF Vo		5.							$\top$				No.
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		Inline																			***************************************	

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NOAAS	Osca	r Dyson		DY	/2107			PACMA	N 2021	GOA							s a	Н	1
SBE 94 PRESS Pri Ter Sec Te Pri Cor Sec Co	SN mp SN mp SN id SN	8 29.	N	N 1	DEG LC	ty		DAY MO	YR	TIME (GMT)	DRY BU (°C;	(%	6)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	80TTOM DEPTH (m) 2653		NAME/ID  O m
									. <u> </u>	· · · · - · - ·		····					Recorder Initials	DLA	1
Nis De		CTD Notes	┩ —	Salt	Hydro Team-			Chlore								_	Comments		Nis
No Des			-	Salt	Nut.Btl	02-8ti,No		GFF \	OI .		-	- <del></del>		1	· <del></del>			<del></del>	No
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3 25	0		<del>                                     </del>		10														3
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VESSEL		<del></del>	CRUISE ID		PROJECT & LEG							STATION NO.		<del> ·- · ·</del>
NOAAS O	scar Dyson		DY2107		PACMAN 202	1 GOA						s 4	н	1
CONSC CAST #  O O 4  SBE 9+ PRESS SN Pri Temp Sec Temp Pri Cond S	DEG COSS	MIN	DEG	rbity (prime)	DAY MO Y	TIME (GMT)  HR MIN  1 D 4 3 C  WEATHER OBS:	ouh se		Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA.	_
	- Varan			the set			<u>-</u>			1		Recorder Initials	アレ	
Nis Depth No Desire		Sal	Hydro Tea	O2-BtLNo	Chloro GFF Vol	·····	127			<b></b>		Comments		Nis No
1 Bo77		16		02-0(0)	di i va		' <i>:</i>	<del></del>	<u> </u>	<u> </u>				140
		10								<b></b>				1
2 56			23		- GI									2
3 a5			24											3
4 10	677		25			30			8 . 8	<u> </u>	_			4
s O		168	7 26											3
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VESSEL	CRUISE ID	PROJECT & LEG	<u> </u>	STATION NO.
NOAAS <i>Oscar Dyson</i>	DY2107	PACMAN 2021 GOA		s 3 H /
CONSC CAST # LATITUDE  DEG MIN  DO 3 5 9 0 7 . 9 2  SBE 9+ PRESS SN Pri Temp SN Sec Temp SN Pri Cond SN Sec Cond SN Instrument Notes:		DAY MO YR HR MIN  5 A U G 2 1 G 4 3 G  WEATHER OBS:	DRY BULB RH Pressure WIND DIRN. (*C) (%) (mb) (deg)  3.20881010274	WIND SPD. BOTTOM DEPTH STA, NAME/ID  (kts) (m)  O G O O O 3 1 5 1  MAX. DEPTH = 1,000 m
				Recorder Initials: DUM
Nis Depth CTD Notes	Hydro Team-PMEL	Chloro		Comments Nis
	Salt Nut.Bt1 02-Btl.No	GFF Vol		No No
1 1,000	15			1
2 500	16			2
3 250	10	: · · · · · · · · · · · · · · · · · · ·		3
4 100	18 %			4
s 50	19			ā) 3
6 25	20			
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VESSEL	CRUSE ID	PROJECT & LEG		[STATION NO.
NOAAS Oscar Dyson	DY2107	PACMAN 2021 GOA		s 5 H \
CONSC CAST # LATITUDE  DEG MIN  O O 5 5 9 4 8  SBE 9+ PRESS SN Pri Temp SN Sec Temp SN Pri Cond SN Instrument Notes:	DEG MIN	DAY MO YR HR MIN O 77 A U G 2 1 0 3 3 9 1 WEATHER ORS:	DRY BULB R4 Pressure WIND DIRN. (°C) (%) (mb) (deg) 4.40811011242	WIND SPD. BOTTOM DEPTH STA. NAME/ID  (kts) (m)  AMAX. DEPTH = 184 m  Recorder Initials: DLM
Nis Depth CTD Notes	Hydro Team-PMEL	Chloro		Comments Nis
No Desired	Salt Nut.Btl O2-Btl.No	GFF Vol		No
1 Bottom	27			1
2 100	28	X 1		2
3 50	29			3
4 25	30			4
2 100 3 50 4 25 5 10 6 0	31			3
6 0	32			4
7				7
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NOAAS (	Oscar Dy	son	11	DY	/2107				PACMAN	2021	GOA										S 6	H	1.1	
CONSC CAST #	N _	LATITUD MIN 5 \ .			DEG 417 ( Fluor/Turt SBE43-0xy ( SBE43-0xy ( Altimeter	bity (prime)	l w	DAY 0 8	MO A U G	YR 2 1	HR	R 085:	DRY B		RH (%) 0 7 9	Pressure (mb)		NO DIRN.	WIND SPD. (kts)	вот	TOM DEPTH (m) NAX		STA. NAME	£/ID
Pri Cond	-				PAR S/N					ļ	vanna					*******				<del>*************************************</del>				
Sec Cone	I SN _				]																			
	rument Nates	ĸ			Rt	:2	:				******	***************************************	n								Recorder in	Itinis:	)um	nelle mente mente de la constante de la consta
Nis Dept	h CTD	Votes			Hydro Team	n-PMEL	. : · .		Chloro						iii —						Comments			Nis
No Desin	_			Salt	Nut.Btl	O2-Btl.No		!	GFF Val											· — ·		·		No
1 (Bo)	ナ				33	10	1			L					-									1
2 100					34																			2
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OAAS <i>Oscar Dyson</i>	D	Y2107			PACMAN 202	21 GOA						s η	н \
CONSC CAST # LATITUDE  DEG MIN  O 7 5 9 2 4 .  SEE 9+ PRESS SN Pri Temp SN Sec Temp SN Pri Cond SN Sec Cond SN Instrument Notes:	02,1	DEG	rime)	DAY	MO Y	TIME (GMT)  TR HR MIN  1 2 0 3 3  WEATHER OBS:	DRY BULB	(%) (%)	Pressure (mb)	WIND DIRN. (deg)	wind spo. (kts)	BOTTOM DEPTH (m)	STA. NAME/II
					I cu					<u> </u>	7	Recorder Initial	DLM
Depth CTD Notes		Hydro Team-	PMEL.		Chloro								
Depth CTD Notes  Desired	Salt	Hydro Team-	O2-Btl.No		GFF Val								
Desired	Salt 170	_											
	-	Nut.Btf									-		
Desired Bott 50	-	Nut.Btf 39 40											
Desired 80++ 50 25	-	39 40											
Desired	-	Nut.Btl 39 40 41											
Desired Bott 50 25	-	39 40											
Desired	-	Nut.Btl 39 40 41											
Desired	-	Nut.Btl 39 40 41											
Desired	-	Nut.Btl 39 40 41										7-	
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Desired	-	Nut.Btl 39 40 41											
Desired	-	Nut.Btl 39 40 41											
Desired	-	Nut.Btl 39 40 41											

VE.	SSEL	*****			- (	CRUISE ID		.27	· · · · ·	PROJECT & I	ĖĢ		· · · T						ISTATION NO.	***	
NO	DAAS OS	car Dys	son		l l	DY2107				PACMAN	2021	GOA							s 8	Н	1
Ľ	CONSC CAST #	DEG	LATITUD MIN	V.	r:	DEG	LONGITUDE Min		DAY	1 1 1	YR	TIME (GMT) HR MIN	DRY BU	-	RH (%)	Pressure (mb)	WIND DIRN.	WIND SPD. (kts)	BOTTOM DEPTH (m)		A. NAME/ID
_		5 9 1	6.	3	5 N	148	33.	1 7 M	13	A U G	2 1	0346	114	. \	086	1008	109	3.1	0000104		
47.	SBE 9+	_				Fluor/Tu						WEATHER OBS:	~		7 15				MAX DEF	тн= 10	O m
<u> </u>	PRESS SN	_				SBE 43-Ox						***************************************									
┢╾	Pri Temp S Sec Temp	_				SBE43-0x Altimeter						REMARKS:								·	
	Prì Cond S	_			-	PAR S/N			<del></del>			REMARKS:									
	Sec Cond	_	•									***************************************							······································		
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L	Instru	ment Notes:											·								
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Nis													100						Recorder Initial	DI	M
	Depth	CTD N	otes			Hydro Tea				Chloro									Comments	19-000	Nis
No	Desired	_		Ι.	Salt	Nut.Bt	l O2-Btl.	No		GFF Vol				<u>_</u>							No
1	Bo+	- 1 -				44															1
2	50					45															2
3	25			П		46				O	$\top$							$\top$	**		3
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NC	AAS O	scar Dyson		ים	/2107				PACMA	N 2021	GOA								s 9	н 1
C	ONSC AST #	LATITU  DEG M  5750		N	DEG	LONGITUDE MIN 5 8 . 8	λw	DAY	MO A U	YR G 2	HIR	(GMT)	DRY BL		RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m) 0 0 0 0 9 5	STA, NAME/ID
	SBE 9+		• •		Fluor/Tur	bity					WEATHE	R OBS:			, -,				MAX DEI	тн= 90 м
	PRESS SN Pri Temp :	-			SBE 43-0xy SBE 43-0xy													************		
	Sec Temp	SN			Altimeter						REMARK	S:								
	Pri Cond S Sec Cond			-	PAR S/N	_								-	~~~~~~~	·····	<del></del>			
	502 00110					_					*****									
H	Instru	ment Notes:								:										Y)
			<u></u>																Recorder Initial	20 10-11
Nis	Depth		<b>↓</b> _		Hydro Tean				Chlor				- 1111		1116-2	112-3915			Comments	Nis
No	Desired			Salt	Nut.Btl	O2-Btl.No	<u> </u>	<del></del>	GFF	Vol	<del></del>	<del></del>		-			<u> </u>		<del></del>	No.
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NOAAS	Oscar D	Dyson		D,	Y2107				PACMAN	N 2021	GOA		-							S 10	н 🖔	
CONSC CAST #  O	SN p SN np SN I SN					ity	3 w	DAY 15	MO A U G	YR	TIME HR 0 5	R OBS:	DRYBL (CC)	. 7 . bo	D. Cosi	cctions	wind draw (deg) 25 (	(kts)	800	OTTOM DEPTH  (m)  MAX DEP	STA. NAME	en
Nis Dep	ь ст	D Notes			Hydro Team-	PMFI			Chloro			· = **** =				1	ř	<del> </del>		Recorder Inklaid	Dum	Nis
No Desi	— <u>; —                                  </u>	0110103	—	Salt	Nut.Btl	02-Btl.No			GFF Vo								-			Comments		- No
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2 50					55					_							<b></b>	_			······	
3 25	_				56					$\dashv$								$\neg \vdash$				2
4 100					57												<b></b>					-   1
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NOA	AS <i>Os</i>	car Dysor	7		ים	Y2107			PACMAI	N 2021	GOA	1					s 11	н 1	
Pri Pri Sec	E 9+ ESS SN Temp SI c Temp S Cond SN	DEG DEG	LATITUDE MIN	8 [		DEG	bity	2 w	DAY MO	YR G 2 1	TIME (GMT) HR MIN WEATHER OBS:	DRY BULB (*C)	8H (%) 0 7 0	Pressure (mb)	wind dran. (deg)	wind SPD. (kts)	BOTTOM DEPTH  (m)  MAX. DEP	STA. NAN	ME/ID
Nis	Depth	CTD Note	es .	<del></del>	<del></del>	Hydro Tean	n-PMEL	-	Chloro					i	Ì		Comments	DLM	Nis
I	Desired	_;		_	Salt	Nut.Btl			GFF V				Ι						No.
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VESSEL	CRUISE ID	PROJECT & LEG		 			STATION NO.	
NOAAS <i>Oscar Dyson</i>	DY2107	PACMAN 2021 GOA	(0)				s 12	н \
CONSC CAST # LATITUDE  DEG MIN  O 1 2 5 7 5 2 . 3 O N  SBE 9+ PRESS SN Pri Temp SN Sec Temp SN Pri Cond SN  Sec Cond SN	LONGITUDE DEG MIN	DAY MO YR H	IME (GMT) DRYE IR MIN (*) THER OBS:	 Pressure (mb)	wind Dr. (deg)	wind SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
Instrument Notes:					\$1		Recorder inklals	: DLM
Nis Depth CTD Notes	Hydro Team-PMEL	Chloro					Comments	Nis
No Desired Salt	: Nut.Btl Q2-Btl.No	GFF Vol			-0.5		···	No
1 Bott	66	_ = ='		= 3				
2 50	67			1				2
3 25	68							3
	69							
4 (0	70		1.0	- //				4
5 6	70							3
6				17		_		4
7				 _IIB				7
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4 TO 5 6 6 7 8 9 10				=				9
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NO	AAS Os	car Dyson	D	Y2107	_		PACMAN 20	21 GO	4						513	н 🐧
0	SBE 9+ PRESS SN Pri Temp S Sec Temp S Pri Cond SP Sec Cand S	SN		DEG	prime)	DAY W 1 9	<del>*                                    </del>	YR 1 O	TIME (GMT) HR MIN THE OBS:	DRY BULE ('C)	5 0 8 3	Pressure (mb)	WIND DIRN.	WIND SPD. (kts)	BOTTOM DEPTH (m)  MAX. DEP	STA. NAME/ID
H			<del></del>								- W		·			
Nis No	Depth Desired	CTD Notes	Salt	Hydro Team-	O2-Btl.No		Chloro GFF Vol	-			-	100 000 0		41	Comments	Nis
М	BAH		172	71	OZ OLINO		0.1.70	+	<del></del>						<u> </u>	No.
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NO	4AS <i>0</i> 5	car Dyson		C	Y2107				PACMA	N 202	1 GOA							s 14	н	
_C,	DNSC AST #	DEG.	ITUDE MIN		DEG	LONGITUDE MIN	101	DAY	мо	YR	≀ HR	(GMT)	ORY BULB	RH (%)	Pressure (mb)	WIND DIRN.	WIND SPD. (kts)	BOTTOM DEPTH	STA. NAME/ID	
0		5854	. 1	d N	151		7 w	90	ΑU	G 2		140	1171.5	082	1024	288	0:4	0000117		
	SBE 9+ PRESS SN			-	Fluor/Tu S8E43-0xy	_			<del></del>	İ	WEATH	ER OBS:		······································				MAX. DEP	тн= <b>\: \</b>	n
	Pri Temp S	N			SBE 43-Oxy					:			nanaamaaaamaaaaaaa		-					,,,,,
-	Sec Temp	•			Altimeter	_				ŀ			stake w			Niskin	100	++1e 5 label - P	cuds	
	Pri Cond Si Sec Cond S	-			PAR S/N	_					$\overline{V}$	ه نظ کا	pottl	井5					····	
	sec Conta :					_			10		****									
	Instru	nent Notes:																		
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VESSEL		_:	Ci	Ruise Id			Р	ROJECT	& LEG							<u></u>		•	STATION NO.		•
NOAAS O	scar Dyso	n	ı D	Y2107	<del></del>	_	F	ACMA	N 2021	GOA									S 15	HI	
CONSC CAST #  SBE 9+ PRESS SN Pri Temp Sec Temp Pri Cond S Sec Cond	DEG SN SN SN N	LATITUDE MIN	5 O N )	DEG 5 0 Fluor/Tue SBE 43-0xy SBE 43-0xy Altimeter PAR S/N	rbity	8 w 8	DAY A	MO A U	YR G 2	HR	R OBS:	DRY 8		RH (%)	Pressure (mb)	wind deg	WINN. SPD. (kts		8OTTOM DEPTH (m) MAX. DEI	тн- 592	€/ID m
						~	7-							, - <del></del>					Recorder Initial	pun	
Nis Depth		es	Salt	Hydro Tear			<del></del> -	GFF V								-			Comments		Nis No
1 Bot		111		83							· - · · · · · ·										<del> </del>
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VESSEL			C	RUISE ID		PROJECT & LEG	<u></u>			<u></u>		·	STATION NO.	<u></u>
NOAAS C	Scar Dys	son	C	Y2107		PACMAN 202	1 GOA						s 16	н 🖟
CONSC CAST #  O \ G SBE 9+ PRESS SN Pri Temp Sec Temp Pri Cond: Sec Cond	SN	LATITUDE MIN		DEG	prime)	DAY MO YR	6 11 11 7	DRY BUI	LB RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH  (m)  MAX. DEP	STA. NAME/ID
Nis Depth	1 CTD N	otes	<u>-</u>	Hydro Team	PMEL.	Chloro							Recorder Initials	: DUM
No Desire	d		Salt	Nut.Btl	O2-Bti.No	GFF Vol	99							No.
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NOAAS	Osca	r Dyson		DY	Y2107				PACMAN	N 2021	GOA										S17	Н	1
CONSC CAST #	$\perp$	LATITUD				LONGITUDE						(GMT)	DRY B		RH ·	Pressure	v	MIND DRN.	WIND SPD.	В	ОТТОМ DEPTH	STA	. NAME/ID
<u> </u>	DE		$\overline{}$		DEG	MIL		DAY	МО	YR	HR	MIN	(*(		(%)	(mb)	: :::::::::::::::::::::::::::::::::::::	(deg)	(kts)	-1-1	(m)	3	: : :
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SBE 9-					Fluor/Tu	-					WEATHE	R OBS:									MAX. DE	ртн= 2.0	00 m
PRESS Pri Ten				-	SBE 43-0xy SBE 43-0xy												<del></del>	·····		····	·····		
	mpSN				Altimeter	(SEC)				l	REMARK	s 1	W L D	D/ 1	an av	VI. C	10	····			***************************************		
Pri Con	d SN		31		PAR S/N						-	- Charachan	hatatatafaan	and galanteer (and the	an gu	)							
Sec Co	nd \$N				]																		
	strument						· · · · · · · · · · · · · · · · · · ·						•••••		•••••						Recorder Inki	∗ þl	m
	5	CTD Notes	_		Hydro Tea				Chloro		320								_ _		Comments		Nis
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0	SBE 9+ PRESS SN Pri Temp S Sec Temp Pri Cond S Sec Cond S	in	LATITUD		O N 1	DEG	rbity (prime)	3 4 w	DAY 2 4	A U G	YR 2 : 1	TIME (GMT) HR MIN 0 2 2 WEATHER OBS.		3 R4 (%)	Pressu (mb)		WIND DIRN. (deg) 2 GO	WIND SPD. (kts)	ВОТТОМ DEPTH (m) U O O O O 1 4 4		m
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		car Dyson		DY2107			I		204							l l	
	17 10 00	cui byson		012107		— Т	PACMAN 2	0216	JUA		· i			· · · · · ·	1	s 19	ΗΙ
			(8)														
	ONSC					- 1									WIND		
CA	ST #	DEG M		DEG	LONGITUDE MIN		DAY MO	150	TIME (GMT) HR MIN	DRY BU	$\overline{}$	RH	Pressure	WIND DIRN.	SPD.	BOTTOM DEPTH	STA. NAME/ID
			10	DEG		7		YR :		1 2		(%)	(mb)	(deg)	(kts)	(m)	
	- (	5609	1 2 N	153		6 w	25 A U G	2 1	0 5 1 0	보석	. 9	085	1007	303	7	0000283	
	SBE 9+			Fluor/Tu					WEATHER OBS:							MAX DEP	гн-275 т
_	PRESS SN			SBE 43-Oxy				ı						·			
	ri Temp S			SBE 43-Oxy	(sec)				***************************************				····			*	
7	Sec Temp Pri Cond Si	-		Altimeter					REMARKS:					·····			***************************************
-	iec Cond :		<del></del>	PAR S/N				1	~~~~~				·····				
H	rec cona ,								······		~~~~			~~~~~			
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Nis	Depth	CTD Notes	J	Hydro Tea			Chiloro	4	9							Comments	Nis
No	Desired		Salt		O2-Btf.No		- GFF Vol										No
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VESSEL				CF	NUISE ID				PROJECT &	LEG		7 727	[	-		_			STATION NO.	,
NOAAS O	scar D	yson		D.	Y2107				PACMAN	2021	GOA								s 20	нц
CONSC CAST #  O Q O SBE 9+ PRESS SN Pri Temp Sec Temp Pri Cond Sec Cond	SN SN SN		1	3 , 1	DEG 5 3 Fluor/Tui SBE 43-0xy SBE 43-0xy Altimeter PAR S/N	rbity	1 2 w	DAY	MO A U G	YR	TIME		DRY B	)	(%) (%)	Pressure (mb)	wind dirn. (deg)	WIND SPO. (kts)	BOTTOM DEPTH  (m)  O O O O O Q G O	STA, NAME/ID
									<del>-</del> · ••••	8	E)					· · · · · · · · · · · · · · · · · · ·			Recorder Initial	· DUM
Nis Depth		) Notes			Hydro Tea				Chioro										Comments	Nis
No Desire				Salt	Nut.Btl	O2-Btl.No	<u> </u>		GFF Vol						<del></del>	*		-		No.
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