

number denoting sample operation # @ Station

Sea routin | # For each Sampling Assigned Frent ID by CLAMS, doesn't reset.

VESSE		2024	CRUISE		0		1	ECT & L	.EG		С	TD File	Vame			
Oscar	Dysor	2024	DA	1240	29	i .	SEBS	leg <u>\</u>	<del></del>		<u> </u>	:			<del></del>	
CTD C	ast#	LATITUDE	L	ONGITU	JDE	GMT DATE		ote if not GMT)	GMT Time		Sur Te	face mp	BOT DEF	1	STATION NUMBER	STN. NAME/ID
	DE		DEG		IN	DAY	МО	YR	HR	MIN	(°	C)	(n	1)		
1	5	5 30.676 N	-164	0.23	A W	16	6	8 2	4 12:/	7			94		1	\
Senso	er IDS (i	nitially & sw	ap-outs)	Weath	ner:											CTD MAX. DEPTH =
SBE type ar	nd S/N					- 19							-			99 89
PRESS S/N				COM	MENT: Di	fficult	conditi	ions, fa	ctors th	at ma	y affec	t meas	ureme	nts or	aid proces	sing
TEMP 1 82	SNs				700 20	c/2 :	Sec ?	Foc)	<u>ال</u>			8_Uul	-rich-	- lal	2/-1/2 C	utotoder.
COND 182				—— <i>H</i>	rit CL	AMS		<u>3 un</u>	upca	27			-	1		
FLUOR S/N			·				. \	\ .							1 ((	
O2 (SBE43)	all Emus S	Try		-25	CDUA_	blan	K-120	المالية المالية	200 Z	77	<u>(_ U)</u>	21366	4001	N	- ditter	ent Sinks
PAR S/N		-		1	4(14/1)	19	Near	9 17	TCLOSIN	— (- ·	_IY7 <i>!TI</i>	-my	-\0	en-	1) 1. U30	en4 sints
02 SBE42S	i/N					Che The	, , , , , , , , , , , , , , , , , , ,	*								
	DEP	H Rosette No	otes					JIM.	Presuition	S	School	1			Forel Ule	
Nisk#	DESIR	ED SALT Bti	Nut.Btl	GFF voi	>10 Large Vol	vol		dup	Phyto I	V)	w sametry	eDNA	OA/DI	С	(check below registered in log)	Notes/ other samples
1	89			H									×			02 attem (s
2	75												×			
3	50		0034	2750	250								X			
4	40		0037	250	250							Ylom	Y	***********		
5	30		2046	250	250								×			
6	20		0043	250		<del></del>							X	<b>p</b> a10010a10a10a1		1100 P 1101 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7	10		0031	250		- 1	7					10m	X			10
8	0		0049	250	250	<u>†</u>							X			
9				01.30	5,0	<b> </b>										
10							<del>\                                    </del>	t			<b> </b>	1			1	
							1	7 - 1	1						1	
11				<del> </del>								<b></b>			·	
12			<u> </u>	<u> </u>		J										

VESSE	L			CRUISE	ID		T <sub>1</sub>	PROJECT	& LE	G		С	TD File	Name			WE C
Oscar	Dys	on 20	24	DV	24	09		SEBS leg	\								
CTD Ca	ast#	LA	TITUDE		ONGITU		GMT DATE	(note if GMT		GMT Time			face mp	BOT		STATION NUMBER	STN. NAME/ID
2/10		DEG	MIN	DEG	М	IN	DAY	MO	YR	HR	MIN	(°	C)	(n	h)	2	
	GES	56	6142 N	162	581	186 W	17	08:	2 4	671	36			85		0	
Senso	r IDS	(initi	ally & sw	ap-outs)	Weath	er:											CTD MAX. DEPTH = 1 1
SBE type an	d S/N																
PRESS S/N															1	aid proces	
TEMP 1 82		_			\ \ \	Soat	LOC/KI	ny a	<u>_</u> b.	7 9	LIPICL	<del>red</del>	40	LOM	ab	one bet	Ham
COND 1&2 S		1.00			0	05/1/	2 00		A- 1	- C	- 11	30.61	201		mt.	222	
02 (SBE43)		-					DA_ _C	Y-CY IT-	ide. (	<u> </u>	-100	13	700	2111	11	o scs	
Transmiss S		-			CD	yd Au	antsi	vau us	N.	a D	T w	ater	, U,				
PAR S/N							ora-j (grada 1			0							
02 SBE42S	/N									10000							
Nisk#			Rosette No		GFF	>10 Large Vol	GF/F du	>10 dup	, Ph	eserved lyto	Flov	which which		OA/DI	С	Forel Ule (check below registered in	II Notes/ other camples
	DE	SIRED	SALT Btl	Nut.Btl				, , , , , , , , , , , , , , , , , , ,	' (fc	rmalin)						log)	
1	7:	5		058							20	260			X	,	
2	50	2		057	250	250									X		
3	4	0		056	250	256							<u></u>		X		
4	3	0		055	250	250	2,50	35C	>						X	0.755	
5	2	0		054	250	250		K 2000 S AND S T							X		
6	10	6		053	250	250					2	138	34		X	1 335	
7	•	0		052	250	250		entra en sen	200		10 m	5 Yr		Oa	/x	1	267 = 00
8		<u></u>												1			
9									1								
10											-		1	1	1		•••••••••••••••••••••••••••••••••••••••
11									_			-					
12													1	1	<del> </del>	-	
14				1		<u> </u>											

VESSEL Oscar [	Dyson 20	024	CRUISE	1340 ID	a		PROJECT	Γ& LE(	3		C	TD File!	Name			
CTD Cas		TITUDE		ONGITU		GMT DATE	(note		GMT Time			face mp	BOT DEF		STATION NUMBER	STN. NAME/ID
3/19	DEG 57	MIN (0 (03)	DEG N -162	_	11N 74 W	DAY 20	MO 8	YR 2 4	HR OS	MIN -63	(°	(C)	(m		4	
Sensor	IDS (initi	ally & s	wap-outs	Weath	ner:			·				1				CTD MAX. DEPTH = 6
SBE type and	S/N				F 17 (14 2-44)				200		_ = 83					n/r
PRESS S/N		81 10 10 1		COM	MENT: Dif	fficult co	ondition	s, fact	ors th	at may	affec	t meas	uremei	nts or	aid process	sing
TEMP 1 82 SN					S+#								1-1		0	
COND 1&2 S/N FLUOR S/N	vs	N. STATE			57 77								744	770	2	
02 (SBE43) S/	N	15 212 1		1												
Transmiss S/N																
PAR S/N				1												
O2 SBE42S/N				<u> </u>												
	DEPTH	Rosette N	lotes	GFF	>10 Large	GF/F dur	>10 du	a	eserved	SA	750		N.		Forei Ule (check below	f
Nisk#	DESIRED	SALT B	Nut.Btl	vol	Vol	vol	vol (larg	IN Ph	yto rmalin)		metry	eDNA	<b>À</b>		registered in log)	Notes/ other samples
1	57	1	65							20	260	34		Χ	/	
2	50		64	250	250									X		
3	40		63	250	250		ļ					******************		X		
4	30		62	250	250									X		
5	20		(b)	250	250									X		
6	10		60	250	250	920	250			2	138	34		X		
7	0		59	250										X		
8	<u>.</u>															
9																
10									\	177.50	0.0000000000000000000000000000000000000					
44	100	SOURCE # VOLCOTAGE														
11									. 7							

VESSEL		- 2 <i>(</i>	24	CRUISE				PROJE		LEG			C	CTD File!	Name				
Oscar	Dyso	11 20	) <u>Z</u> 4	DA	2409	7	_	SEBS le	g	$\Rightarrow$						-	1		
CTD Ca	ıst#	LA <sup>*</sup>	TITUDE	L	ONGITU	JDE	GMT DATE		te if no GMT)	t GM Tim				rface emp	BOT DEP		STAT NUME		STN. NAME/ID
4/	DI	EG	MIN	DEG	М	IIN	DAY	МО	YF	₹ Н	R N	/IIN	(°	°C)	(m	)			
/	13			1		w	20	68	2	4			•		81		5		
Senso	r IDS (	initi	ally & sw	ap-outs	Weath	ner:												C	TD MAX. DEPTH = 748
SBE type and	d S/N	_																	
PRESS S/N			and the	-	COM	MENT: Di	fficult	conditio	ons, fa	actors	that	may	affec	t meas	uremei	its or	aid pr	ocessi	ng
TEMP 1 &2 S	SNs	_			Ca	ist #	4, 6	WED-	井	23		Ner	7-1-1	it od	ded .	10 S	<u> 202</u>		
COND 182 S	i/Ns																		
FLUOR S/N		_																	
O2 (SBE43)		_																	
Transmiss S	'n	-	-		4														
PAR S/N		-			-														
02 SBE42S/	N														_				
	DEP	TH	Rosette No	otes	GFF	>10 Large	GE/E	lun >10.	4116	Preser	red	Flow	,				Forel U	lle below if	
Nisk #	DESI	RED	SALT BU	Nut.Btl	vol	Vol	vol	vol (l	/arnal	Phyto (formal	in)	Cyto	metry ISO	eDNA	OA/DI	C	registe log)		Notes/ other samples
1	75			72								22	(60)	34	03/	X			0201/99135
2	50			7-1	250	250										X			***************************************
3	40			70	250	250	1									X			>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
4	30			69	250	250						No.				X			
5	20	>		68	250	250			\					M		$ \times $			
6	10			67	250	930						213	38_	34		X			
7	0			66	850	250		1	/							X			
8																			
9	70																	1	
10		/400 TV																	**************************************
11		C 10 10 10 10 10 10 10 10 10 10 10 10 10																1	
12																		V	) 100 100 100 100 100 100 100 100 100 10

VESSE <b>Osca</b> i	L Dyson	202	24		CRUIS DY	EID 2409	\	1	ROJECT &	LEG		CTD File	Name			
CTD C	ast# I	_AT	TUDE	.	ı	.ONGITU	JDE	GMT DATE	(note if no	ot GMT Time		rface emp	BOT I		STATION NUMBER	STN. NAME/ID
5	DEC	$\overline{}$	MIN	$T^{\dagger}$	DEG		IN	DAY	MO Y	R HR	MIN (	°C)	(m)			,
	31 50	o	D-}4:	} <sub>N</sub>	-164	58.	596 W	21	08 2	4 5:05	am 9.5	53	96		6	6
Senso	or IDS (in	itia	lly &	swa	p-out	Weath	er:									CTD MAX. DEPTH =
SBE type a	nd S/N								,							
PRESS S/N						COW	MENT: Dif	fficult co	nditions, 1	actors tha	may affe	ct meas	uremen	ts or	aid proces	sing
TEMP 1 82	SNs				8 1	Ca	STIF	<u>5, E</u> v	中午	31 CE	ven+=	add	ed -10	> 70	٠ ( ک	
COND 182	- 1					CY	11 ma	x @^	36m	- ~ 40	>m					
FLUOR SA		-			1355											
O2 (SBE43 Transmiss																
PAR S/N	2/14					1										
		_	_	_		1						-				
O2 SBE428	S/N					3										
O2 SBE425	DEPTI	1 F	losette	Not	es					Preserved					Forel Ule	
		+	tosette SAL†			GFF vol	>10 Large Vol	GF/F dup	>10 dup vol (large)	Preserved Phyto (formalin)	Flow Cytometry Sto ISO		OA/DIO		Forel Ule (check below registered in log)	if Notes/ other samples
	DEPT	+				C019001910				Phyto	Cytometry		OA/DIC	×	(check below registered in	if Notes/ other samples
Nisk#	DEPT	+			Nut.Btl	C019001910				Phyto	Cytometry SHO ISO		OA/DIC	×	(check below registered in	if Notes/ other samples
Nisk#	DESIR	+			Nut.Btl	vol				Phyto	Cytometry SHO ISO			× ×	(check below registered in	if Notes/ other samples
Nisk#	DESIRI	+			Nut.Btl 80	vol	<b>Vol</b>			Phyto	Cytometry SHO ISO			× × ×	(check below registered in	if Notes/ other samples
Nisk #	DESIRIO 90 7-5 50	+			80 79 78	250	<b>Vol</b>			Phyto	Cytometry SHO ISO			× ×	(check below registered in	if Notes/ other samples
3 4	DESIR: 90 75 50 40	+			80 79 78 77	250 250	25G 25G			Phyto	Cytometry SHO ISO			X × ×	(check below registered in	if Notes/ other samples
Nisk #  1 2 3 4 5	DESIR 90 75 50 40 30	+			80 79 78 77 76 75	250 250 250	250 250 250	vol	vol (large)	Phyto	Cytometry SHO ISO QQ (AC)	34		X X X	(check below registered in	if Notes/ other samples
Nisk #  1 2 3 4 5	DESIR 90 75 50 40 30	+			8C 79 78 77 76	250 250	250 250 250			Phyto	Cytometry SHO ISO			× × × ×	(check below registered in	Notes/ other samples $\frac{24}{202}$
Nisk # 1 2 3 4 5 6 7	DESIR 90 75 50 40 30	+			80 79 78 77 76 75	250 250 250	250 250 250	vol	vol (large)	Phyto	Cytometry SHO ISO QQ (AC)	34		× × × ×	(check below registered in	24/=0 <sub>2</sub>
Nisk #  1 2 3 4 5 6 7 8	DESIR 90 75 50 40 30	+			80 79 78 77 76 75	250 250 250	250 250 250	vol	vol (large)	Phyto	Cytometry SHO ISO QQ (AC)	34		× × × ×	(check below registered in	Notes/ other samples
Nisk #  1 2 3 4 5 6 7 8	DESIR 90 75 50 40 30	+			80 79 78 77 76 75	250 250 250	250 250 250	vol	vol (large)	Phyto	Cytometry SHO ISO QQ (AC)	34		× × × ×	(check below registered in	24/=0 <sub>2</sub>

VESSEL <b>Oscar</b>		n 20	124		CRUISE				PROJECT	& LE	G		(	CTD File	Name			
Oscar	Dyso		724		DYO	1409			ocos leg_		<u> </u>							
CTD Ca	st#	LA <sup>-</sup>	TITUD	E	L	ONGITL	JDE	GMT DATE	(note if		GMT Time			rface emp	BOT DEF	1	STATION NUMBER	STN. NAME/ID
6	DI	EG	MIN		DEG	М	IN	DAY	МО	YR	HR	MIN		°C)	(m	))	_1	
/3	5 5	6	29,21	& N	-165	59.5	34 N	21	08	2 4	Ц	35			87	7_	7	
Sensor	r IDS (	initi	ally &	swa	ap-outs)	Weath	er:										[c	CTD MAX. DEPTH =
SBE type and	S/N																	
PRESS S/N						COMI	MENT: D	fficult co	onditions	, fac	tors th	at may	affe	ct meas	uremei	nts or	aid process	ing
TEMP 1 &2 S	SNs	_				Ca	4 #	6 E	unt #	35	, 0	vent	Lad	ded -	6 Sa	S		
COND 182 S	/Ns	-									r							
FLUOR S/N																		
O2 (SBE43) S		_	-	-						-								
Transmiss S/I PAR S/N	N	-																
O2 SBE42S/N	N	-	-															
	DED		D	- M-					T	Т		T		1		//		
Nisk#	DEP	Н	Rosett	e No	tes	GFF	>10 Large	GF/F du	>10 dup		eserved	Flor	ar .	PALA	CAIDI		Forel Ule (check below if	News to the second second
INISK #	DESI	RED	SALT	Bti	Nut.Btl	vol	Vol	vol	vol (large		y(o rmalin)		ometry		OA/DI		registered in log)	Notes/ other samples
1	82	<u> </u>			88							27	760			X		02 = 242
2	75				87		allter-	<u> </u>			1					X		
3	50	2			86	250	250							34		X		
4	40				85	250	256									X		
5	30	)			84	250	250				1					X		
6	20	)			83	250	256									X		
7	10				82	250	250					2	138w	c3L		X		
8	0				81	250	250								02/	X		
9									7				= 100					
10											1							***************************************
11			1								U						1	***************************************
12																		

VESSE	L			CRUISI	E ID		F	PROJECT 8	k LEG		СТІ	D FileN	lame			
Oscar	Dysc	on 20	24	DV	12400		5	EBS leg								
CTD C	ast#	LAT	TTUDE	l	.ONGITU	JDE	GMT DATE	(note if I			Surfac Temp		BOTT DEP	1	STATION NUMBER	STN. NAME/ID
7/	/ [	DEG	MIN	DEG	М	IN	DAY	мо	YR HR	MIN	(°C)		(m	)	0	
/	13 5	57 (	0,098 N	7165	0.9	97 W	22	68 2	4 411	Tam			70		\delta \delta	
Senso	or IDS	(initia	ally & sw	ap-outs	Weath	er:					_ 355		-50,550			CTD MAX. DEPTH =
SBE type ar	nd S/N															66M
PRESS S/N											affect r	meası	ıremer	its or	aid process	sing
TEMP 1 82					CT	D cas	十十	7, ev	ent#	43				4	DO POHL	e 71staking
COND 1&2 FLUOR S/N O2 (SBE43) Transmiss \$	I ) S/N	_			W D	IC du	eocein	e sa	PION	Sur	face,	, 60	16.0g		alacline	
PAR S/N O2 SBE42S		-				Bo	Hle	noth	sppe-	0	leep	do	pte			
Nisk#			Rosette No		GFF	>10 Large Vol	GF/F dup	>10 dup	Preserved Phyto	Plow	101	DNA	OA/DI	5	Forel Ule (check below registered in	if Notes/ other samples
	DES	IRED	SALT Btl	NutBtl	401	VOI	100	voi (laige)	(formalin)	Stra	CYO				log)	
1	66	2		95	-		-						02	XX		02=239
2	5	0		94	250	250				.99	60	34	3	7		
3	4	6		93	250	250								X		
4	3	0		92	250	250								Х		
5	a	0		91	250	350								Х		
6		0		90	250	250	250	250	×	213	8 7	31-		Χ		
		/_		ca	250	250		Lesson Process and			0.09636			ΧX		Lea
[(7 )	- 1		Laborate Santo	1.8	0,7	0/20										
8	. (			89	0.30	020	-				10000					
				8-1		0.30					+					
8		0		8-1												
8 9		0		8.3		0.30										

VESSEL			CRUISE	- 10		T <sub>E</sub>	DO IFOT I					TD File	lassa				
Oscar		2024	1	1240	9		ROJECT &	& LEG				TD File!	vame				
Oscar	Dyso.	1 2024	1 2	1270	, ,		icos leg			1		T			1		
						GMT	(note if i	not G	MT		Surl	face	вот	ГОМ	STA	TION	
CTD Ca	st#	LATITUDE	L	ONGIT	JDE	DATE	GMT)	<u> </u>	ime		Te	mp	DEF	TH	NUN	/IBER	STN. NAME/ID
8/		G MIN	DEG	_	IIN	DAY	MO .	YR	HR	MIN	(°(	C)	(n	)		a ·	
1/6	17/5	6 59.67	N 165	591	795 W	23	68 2	2 4					76				a generalismen
Senso	r IDS (	nitially & s			ner:											c	CTD MAX. DEPTH =
SBE type and	d S/N														- 1100		
PRESS S/N							nditions,		rs tha	t may	affec	t meas	uremei	nts or	aid p	rocessi	ing
TEMP 1 &2 S	SNs			Ca	5+#8	1_(2	一十年	44									
COND 182 S	i/Ns																
FLUOR S/N				A R	#02	Q- 10/4	1	14.50			Clea						
02 (SBE43)				-	10+50-	F-2/1		100									
Transmiss Si PAR S/N	IN .	-		-													
02 SBE42S/	N	-															
	DEP	TH Rosette	Notes					Dene	erved						Fore		
Nisk #			n kana	GFF	>10 Large Vol	GF/F dup	>10 dup vol (large)	Phyt	0	Flow	metry	eDNA	OA/DI	c		k below if tered in	Notes/ other samples
	DESI	RED SALTE	iti Nut.Bti	701		19	Volume	(form	nalin)	346	1,50				log)		
1	67	13/2	109	_		<u> </u>				೩೦	60			×			
2	50		101	250	250							34		X			
3	40		100	asc	T		Port School School School							X			
4	30		99	250								***************************************		Х			
5	a		98	250	250									X			***************************************
6	<u>:</u>		97	250				,	X	913	Ç	々し		У	<b>†</b>	1	***************************************
2				(0.3-	2013						2/\	÷ -					
-			016	241	129	-								V		1	
8		7		0,30	4			+	1.00					/		1	
9				-													
10				+	<del>                                     </del>			+		1							***************************************
11					-												***************************************
12				1								1	1		1		

VESSEL <b>Oscar</b>	Dyson 2	2024	CRUISE		10°1		ROJECT &	& LEC	3		C	TD FileN	lame		-		
CTD Ca	st# L	ATITUDE		ONGITU		GMT DATE	(note if I		GMT Time		1	face emp	BOTT DEP		STATION NUMBER		STN. NAME/ID
9	DEG	1 1	DEG	T	IN	DAY	1	YR	HR	MIN		(C)	(m				
/5	57	3998	3165	59,7	25 w	22	082	4	1413	37			6	7	10		
Senso	r IDS (ini	tially & sw	ap-outs	Weath	ier:											CTD	MAX. DEPTH = 62
SBE type and	I S/N								- 100							Ш	
PRESS S/N										at may	y affec	t meası	uremer	ts or	aid proces	sing	9
TEMP 1 82 9	_			CTI	) _cas	701	Even	-5	0								
COND 182 S	/Ns _																1
FLUOR S/N O2 (SBE43)	-																) 
Transmiss S/																	
PAR S/N																	
02 SBE42S/	N																
	DEPTH	Rosette No	otes	GFF	>10 Large	CE/E dur	>10 dup		eserved	Flo				T	Forel Ule (check below		
Nisk#	DESIRE	SALT Bil	Nut.Btl	vol	Vol	vol	vol (large)		yto rmalin)	Cyt	ometry	eDNA	OA/DI		registered in log)		Notes/ other samples
1	62		169							33	)(O)			X			
2	50		108	250	320							34		X		<b>_</b>	194194194194194199199199199199199199799
3	40		107	250	920									X			
4	30		10%	250	250		Sec. 92.20							X		_	
5	20		105	256				4.6						V			
6	10		104	250					X	2.	138	3L		Ý			
1																	.04 ( 0.07
8	$\bigcirc$		1											Х			D
9			1							13 13				,			4404144400140440100100100100170017001700
10							1					1			<u> </u>		
		(Fig. 1)						$\top$									190110510570510550010010010010010010010010010010010
11																	***************************************
12				<u> </u>		<u> </u>									1		

VESSEL				CRUISE		-	1	PROJECT	& LE	G			CTD File	Name			
Oscar I	Dyson 2	024		T	Mar	109		SEBS leg_				9.				2) =	7 0 72 23
CTD Cas	st#_L/	ATITUDE	≣	L	ONGITL	JDE	GMT DATE	(note if GMT		GMT Time			rface emp	BOT DEF		STATION NUMBER	STN. NAME/ID
10 /	DEG	MIN		DEG	М	IN	DAY	МО	YR	HR	MIN	(	°C)	(m	)		
	8 56	59,968	g N	-166	59,4	53 w	23	08:	2 4					74	,	11	
Sensor	IDS (init	tially &	swa	p-outs)	Weath	er:								5,			CTD MAX. DEPTH =
SBE type and	S/N																
PRESS S/N	-				COM	MENT: Di	fficult co	onditions	, fact	tors the	at may	/ affec	ct meas	uremei	nts or	aid process	sing
TEMP 1 &2 SM	Vs				CT	Deast	#1	7		58	3						
COND 182 S/I	Ns		_														
FLUOR S/N			_						7=	yc e	D ~	30					
O2 (SBE43) S Transmiss S/N	_																
PAR S/N	_																
02 SBE42S/N				o I													
	DEPTH	Rosette	e Not	tes		COMPLETE		/	Pri	served						Forel Ule	
Nisk#	DESIRE	SALT	Btl	Nut.Btl		>10 Large Vol	Vol	>10 dup voi (large	, Ph	yto rmalin)		w– ometry esso	eDNA	OA/DI	C	(check below it registered in log)	Notes/ other samples
1	(09		ė,	116							20	<u>) در</u>		02/	Χ		0, 5 284
2	50			115	250	920							1		X		
3	40	1	J.	117	RG	250							31		Y		
4	30			113	20	220				Χ					Υ		
5	20			112	70	250									Y	Environment Wildows Conde	100100100100100100100100100100100100100
6	10	11/1	4.00	((1	250					X	а	138	34	41   112442144	X		***************************************
7						i e			_								
8	$\bigcirc$	110		110	230	250		T							X		
9				/													
10	-,	1 1							1					1			
11			1								$\top$						
12				,									1	-			***************************************
12		Ji		-		<u> </u>	<u> </u>										

	5								¥1					
VESSEL Oscar	L Dyson 2	024	CRUISE	1D 9409	7		PROJECT &	LEG	C	TD Filet	Name		V	
CTD Ca	ast# LA	ATITUDE	L	ONGITU	JDE	GMT DATE	(note if n GMT)	ot GMT Time_		face mp	BOTT DEP		STATION NUMBER	STN. NAME/ID
11/	DEG 57	MIN 2926	DEG	ORI	IN W	DAY 23	46	R HR	MIN (°	C)	(m) 70		12	
-	or IDS (init				<del></del>		10   2					,	,	CTD MAX. DEPTH = 66
SBE type and PRESS S/N TEMP 1 & 2 S COND 1 & 2 S FLUOR S/N O2 (SBE43) Transmiss S PAR S/N O2 SBE42S/	SNSSINS			COMM	MENT: Di	fficult co	-) SCS (	factors that went #		t meas	uremen	ts or	aid proces	ssing
Nisk#	DEPTH	Rosette N	otes	GFF	>10 Large	GF/F dyf		Preserved Phyte	Plow	eDNA	OA/DIC		Forel Ule (check below	
	DESIRE	SALT Bt	Nut.Btl	vol	Vol	vol	voi (large)	(formalin)	Cytometry Stbltso				registered in log)	
1	66		123				[		2260			X		02 = 357
2	50		122	250	250				П	36		X		
3	40		151	850	850		ļ	W				X		
4										4			1 1	II II
-	30		120	250	250		<u> </u>	×		-		X		
5	30 20		120	250				×				×		
5								×	2138	34		Ť		
H-	20		119	250 250	950 950				2138	34		X		
6 7 8	20		119	350	950 950				2138	34		X		
6 7 8 9	10		119	250 250	950 950				2138	34		X		
6 7 8	10		119	250 250	950 950				2138	34		X		

VESSEI <b>Oscar</b>		n 20:	24	CRUISE	1D 240	9		PROJECT &	LEC	G		C	TD FileN	lame		1	
CTD Ca	ast#	LAT	ITUDE	L	ONGITU	JDE	GMT DATE	(note if r GMT)		GMT Time		Surf Tei		BOTT DEP		STATION NUMBER	STN. NAME/ID
12-	/ D	EG	MIN	DEG	М	IN	DAY	MO ,	YR	HR	MIN	(°(	C)	(m	)		
-	70 3	56 5	9187 N	9 طال	0.3	95 W	24	08 2	4	03'14	8					13	
7			illy & sw	_	Weath	ner:										•	CTD MAX. DEPTH =
SBE type an	d S/N																
PRESS S/N					COM	//ENT: Di	fficult co	onditions,	fact	ors that	may a	iffec	t meası	ıremer	its or	aid proces	sing
TEMP 1 &2	SNs					CTDe	ast #	£ 1971 6	ve.	VT -5	·+C	>					
COND 182 S			200 10 44			C	nina	AX Q.	75	$\sim$							
FLUOR S/N		_				MR	111 00	0 -		] - 1				0.1.1			A man 1
IO2 (SBE43) Transmiss S		_			·	AB 100	ATTIES			7 41 12	_DQ	7	Trong.	AVI	<u> </u>	lean	(T)
PAR S/N						+(0	925	2-UN	3	-C-C-F-	TC	- T	21d1)	SA T	-24	1-7-1	
O2 SBE42S	/N																
	DEP	тн ғ	Rosette No	tes					Pn	eserved						Forel Ule	
Nisk#	DESI	RED	SALT Btl	Nut.Btl	GFF voi	>10 Large Vol	vol	>10 dup vol (large)	Ph (fo	yto rmalin)	Plow Cytom		eDNA	OA/DI		(check below registered in log)	Motes/ other samples
1	75			138							320	(c)			Х		03 - 845
2	<b>5</b> C		-	195	7350	250							31-		X		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3	40			107		١				×					X		
4	30	5		126											×		
5	2.			125			1	T							X	With the college of the	
6		6		123			250	250		×	213	8	31		X		
7																	
8									12 1000	* < - m					X		***************************************
9				1	-							7.0					-
					<del> </del>		-				1						
10		-							+		1					-	
11					· <del> </del>		-	+			-						***************************************
12				l			الـ							<u> </u>			

												3,000,000	-	-				
VESSE				CRUISE			- 1	PROJECT	& LE	G		c	TD File!	Name				
Oscar	Dysc	on 20	24	DY	2400	<u> </u>		SEBS leg										
CTD C	ast #	I AT	TITUDE	1.0	ONGITU	IDE	GMT DATE	(note if GMT)		GMT Time		Surf Tei		BOTT DEP		STATION NUMBER		STN. NAME/ID
13		DEG	MIN	DEG		IIN	DAY		YR	HR	MIN	(°(		(m)				
		_	30,093 N		6:37		24	1	2 4	0	59	·		71		14		
Senso	or IDS	(initia	ally & swa	ap-outs)	Weath	ner:											СТ	TD MAX. DEPTH =
SBE type ar	nd S/N						_			·								
PRESS S/N				AS USA				onditions						uremen	ts or	aid proce	essir	ng
TEMP 1 &2	SNs				<u>C</u>	TO C	25+#	13, Eu	en	+ #	74							
COND 182	S/Ns							13, Eu		P	36	23	<u>e</u>					
FLUOR S/N		_																
02 (SBE43)		7																
Transmiss S	5/N	_																
PAR S/N O2 SBE42S	en.i	-		- 1/11				,							· · · · ·			-54-54-7
		РТН	Rosette No	tes				,	T <sub>D</sub> ,	eserved					-, ,	Forel Qle		
Nisk#	DES	SIRED	SALT Btl	Nut.Bti	GFF vol	>10 Large Vol	GF/F du	p >10 dup vol (large	, Pi	ıytö ormalin)	PIO	ometry Size	eDNA	OA/DI	;	(check belo registered log)	ow if in	Notes/ other samples
1	(0)	6		135	_			10	-			260		0	×			
2	50			134	320	250							3.1		У			
3	40			133	1										X			
4	30			132				-		$\times$					X			
5	٦.	_		131											X			-4900900720070070070070700700000000000000
6		5		130			.			$\overline{}$	9	138	34		X			,,,
		=		الربي ١								. 30	- Al8	2.3				\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&\&
7				129											~			***************************************
8		4		10:11	· \						$\dashv$		$\vdash$					
9				l			.							- <del> </del>				
10				-							1.1							***************************************
11					ļ		-							<del></del>				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
12								1										

VESSE	L		CRUISE	ID		Р	ROJECT &	LEG		CTD Filel	Name			
II .	Dyson 20	)24	DY	2409		s	EBS leg							
CTD Ca	ast# LA	TITUDE		ONGITUDE		GMT DATE	(note if n	ot GMT Time		rface emp	BOTT(		STATION NUMBER	STN. NAME/ID
14	DEG	MIN	DEG	_MIN	$\bot$	DAY	MO Y	R HR		°C)	(m)		15	
	77 57	59,763 N	7169	6,938	s   w	24	082	4 11:0	am		71		15	
Senso	or IDS (initi					V					1		c	TD MAX, DEPTH =
SBE type an														
PRESS S/N	-			COMMEN	T: Di	fficult co	nditions,	factors tha	t may affec	t meas	uremen	ts or	aid processi	ng
TEMP 1 &2	SNs			CTDC	ist-	# 14,	Even+	+ 77						
COND 182	S/Ns													
FLUOR S/N	-		V	Pyc.	@	~30m	1							
O2 (SBE43)														
Transmiss S	5/N													
PAR S/N 02 SBE42S														
02 3BC423								1		T =			. /	
	DEPTH	Rosette No	tes	GFF >10	Large	GF/F dup	>10 dup	Preserved	Flow				Forel Ule (check below if	
Nisk #	DESIRED	SALTEH	Nut.Btl	vol Vol	an go	vol	vol (large)	Phyto (formatin)	Gytometry Straso	eDNA	OA/DIC		registered in log)	Notes/ other samples
1	66		1.10			1								
2			142						2260			Х		
3	50			250 2	50	.			2260	カト		<i>X</i>		
	50 40		141	250 2	50				3260	カト				
	40		140	250 2	50			×	3260	おト		X		
4	40 30		141 140 139	250 2	50			×	3360	カレ		× ×		
5	40	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	141 140 139 138	250 2	50							X		
5	40 30		141 140 139	250 2	50			×	2138	31		× ×		
5	40 30		141 140 139 138 137									× ×		
5	40 30		141 140 139 138		50						02	× ×		02=318
5 6 7	40 30		141 140 139 138 137								02	× ×		04 = 318
5 6 7 8	40 30		141 140 139 138 137								Oa	× ×		0=318
5 6 7 8 9	40 30		141 140 139 138 137								Og	× ×		Ca = 318

			CRUISE		_	F	PROJECT &	LEG		CTD Filel	Name			
Oscar	Dyson 20	)24	D\	1240	9	5	SEBS leg				_			
CTD Ca	nst# LA	TITUDE	L	ONGITUI	DE	GMT DATE	(note if n	ot GMT Time		rface emp	BOTT DEP		STATION NUMBER	STN. NAME/ID
15	DEG	MIN	DEG	MII	N I	DAY	MO Y	R HR	MIN (	°C)	(m	)		100-
18	5 57	29.695 N	169	59.81	9 W	25	082	4 03.5	2		68		16	芒
Senso	r IDS (initi	ally & sw	ap-outs	Weathe	er:									CTD MAX. DEPTH = 63
E type and	d S/N									10.0				
ESS S/N										ct meas	uremen	its or	aid process	sing
MP 1 &2 S				CIO	cast	186/5	Eve	4 # 83						
OND 1&2 S .UOR S/N	i/Ns	93 347		3			0.7	@ ~ T						
(SBE43)	S/N			ě			14		/211/					
ansmiss S/	The San			T	Judica	te Di	C @ SU	(Care						
R S/N					m/men	,								
2 SBE42S/I	и													
127	DEPTH	Rosette No	tes					Preserved					Forel Ule	
lisk#	DESIRED	SALTE	Nut.Btl			vol	>10 dup vol (large)	(formalin)	Cytometry	eDNA	OA/DI		(check below i registered in log)	Notes/ other sample
- 1														
1			149		_				2560			×		
	63 50		149	<b> </b>	250				95%C	34		×		_
2	63			<b> </b>				×	2260			×		
3	63 50		149 148 147	<b> </b>				×	2260			×		
3	63 50 40 30		149 148	<b> </b>				×	25.60			×		
3 4	63 50 40		149 148 147 146 145	<b> </b>		350	250	×		34		× × ×		
3 4 5	63 50 40 30 30		149 148 147 146	<b> </b>		250	250		2138	34		× × ×		
2 3 4 5 6	63 50 40 30 30		149 148 147 146 145 148	<b> </b>		350	350			34	00	× × ×		0,=290
2 3 4 5 6 7	63 50 40 30 30		149 148 147 146 145	<b> </b>		350	250			34	00	× × ×		03 = 290 20 yayaya
2 3 4 5 6 7 8	63 50 40 30 20 10		149 148 147 146 145 148	<b> </b>		350	250			34	O 4	× × ×		0, = 290 dug varies d
1 2 3 4 5 6 7 8 9 10 11	63 50 40 30 20 10		149 148 147 146 145 148	<b> </b>		350	250			31	00	× × ×		03 = 290 dig Laves d

vesse Oscar	L r Dyson 20	024	CRUISE	10 240	9		PROJECT	& LEG		C.	TD FileN	Name		Įė.	803-80-2
CTD C	ast#LA	TITUDE	L	ONGITL	IDE	GMT DATE	(note if GM1			Surf Ter		BOTT DEP		STATION NUMBER	STN. NAME/ID
16	DEG 89 58	MIN 0.3204 N	DEG	59.9		DAY 25	MO 8	YR H	MIN 3 10am	(°(	C)	72	)	17	
-	or IDS (initi		-	-		0,3	1010	2 4 0	2 roam			700			TD MAX. DEPTH =
SBE type a			ир оню,												
PRESS S/N				COM	MENT: Di	fficult c	onditions	, factors	that may	affect	t measi	uremen	ts or	aid processi	ng
TEMP 1 82	SNs			CIT	cast	# 16	, ever	+89							
COND 182															
FLUOR SA				P	3 C L	35,	-415M							-	
O2 (SBE43 Transmiss	100														
PAR S/N												-			
O2 SBE42S	S/N														4
	DEPTH	Rosette No	tes		.401	OF IT		Preserv	ed					Forel Ule	
Nisk#	DESIRED	SALTE	Nut.Btl	11 Norman C - C 11 1	>10 Large Vol	vol	p >10 dup vol (large		n)	metry	eDNA	OA/DIC	;	(check below if registered in log)	Notes/ other samples
1	67		156	_						60			X		***************************************
2	50		155	250	250						34		×		4110101011011011011011011011011011011011
3	40		154	1	1		roemen nervice	596.0					X		
4	30		153					$\rightarrow$					X		
5	20		152						and a				X		
								( >	) 25	38	3 <i>L</i>		Χ		IOM SANPIR
6	10		151							_					
6	10		151												1077
6 7 8	10		151										×		1057
7	10			1	<b>—</b>								X		1034
7 8 9	_0			1									X		1037
8	10												×		1057

VESSE <b>Oscar</b>		on 20	24	CRUISE	1D ):40°	7	1	PROJECT (	& LE	G		C	TD Filel	Name				
CTD C			ITUDE		NGITU		GMT DATE	(note if		GMT Time		Surf Tei		BOTTO		STATION NUMBER	STN. NAM	ME/ID
	- 7		MIN	DEG		IN	DAY		YR	HR	MIN	(°(		(m)		TTOMBER	0111.10.10	12,12
179			29.98 N			688 W	1	-	2 4		103114	, ,	<u> </u>	7/	,	18		22
Senso	- 1		ally & swa	7.74			1										CTD MAX. DEPTH =	66
SBE type ar			33703					-										
PRESS S/N		The second			COM	MENT: D	fficult c	onditions,	fac	tors th	at may	affec	t meas	urement	s or	aid process	sing	
TEMP 1 &2	SNs				Ca	S+# 1	7, 6	vent							*			
COND 1&2	S/Ns						,											
FLUOR SAN																		_
02 (SBE43)		1										1		110				
Transmiss S	S/N	77							8	26 -	1 m	ab	ove	40N	1			
PAR S/N 02 SBE42S	3/N	-												7				A Secretary
	DE	РТН	Rosette No	tes		į, ir, jim,		1	PI	eserved				U. 9/2	m.	Forel Ule		WUT.
Nisk #	DES	SIRED	SALTE	Nut.Btl	GFF vol	>10 Large	vol	vol (large	) [PI	nyto ormalin)	Cyte	emetry S≥SO	eDNA	OA/DIC		(check below registered in log)	Notes/ other s	amples
1	6	6		163						725		260			×		0,=294	
2	50			162	250	250	5		7				31		×			
3	4			161	1	1				×					ı×			
4		0		160											X	***************************************		
5		0		159											X			
6		0		158			-			×	2	138	36	***************************************	X	************************	***************************************	
39					_			-					-					
8		0		157	1	<b>V</b>	·						<b> </b>	1	X			
9	·		7	131	-		1									Exercise and a second	-	
10								-					1	1				
							1		+		+	- Free /				100		**************
11								-					<del> </del>	<del> </del>				
12												_		1				

VESSE	_			CRUISE				PROJEC	CT & LE	EG		С	TD Filel	Name			
Oscar	· Dys	on 20	124	DVA	409	<u>.</u>		SEBS leg	l	<u> </u>							4
CTD C	ast#	LA1	TITUDE	LC	ONGITU	DE	GMT DATE		e if not MT)	GMT Time		Surl Te		BOTT DEP		STATION NUMBER	STN. NAME/ID
18		DEG	MIN	DEG	МІ		DAY	МО	YR	HR	MIN	(°(		(m	30 50		
	98	58	0,59 N	170	58.8	7 V	v 26	80	2 4	001,1	15	7.	5	88	Š	19	
Senso	or IDS	(initia	ally & sw	ap-outs)	Weath	er:											CTD MAX. DEPTH = 78m
SBE type ar	nd S/N																
PRESS S/N										ctors tha	t may	affec	t meas	uremer	ts or	aid proces	sing
TEMP 1 82	SNs				_C	STA	18,1	vent#	98_	<del>, , , , , , , , , , , , , , , , , , , </del>							
COND 182		_			WIL	ids d=	swells.	high.	gang	10 tuy	CT	), 10	a	1 1	20/10		1000016010
FLUOR S/N 02 (SBE43)		-							0								
Transmiss S		-				1>0		35-4	(OM)			· ·					
PAR S/N		N.	, SILAL	F	4 0	na Li	me b	esere s	sanno	Indica.	W 01	tuc	a r	C+		doel d	ue to
02 SBE42S	5/N				Sa	fe tu	Ster	ndeun	را على	ved fi	rex.	Cha	525	Cells	Sett	dock d	
	DE	PTH	Rosette No	tes				up >10 d		reserved	Plow	19-			8 11	Forel Ule	
Nisk #	DE	SIRED	SALTEN	Nut.Btl	ACCRECATE STREET	Voi	vol	vol (la	rool P	hyto formalin)	Gyto	ometry	eDNA	OA/DI	;	(check below registered in log)	Notes/ other samples
1	7	6		176							13	160		02/	Х		Se el? 50000
2	5	0		169	250	250							34	/	X		30,201
3	4	0		168		211		**********					7-M		X		
4	3	0		167											У		
5	ð	0		166											X		
6	{	0		165			250	3 25	<i>O</i> .	X	21	35	31		У		
7					-						===						
8		0		164							<u> </u>				Х		
9				71	-		7										
10							-										
11											1						
12											1						
12														4			

(									(								
VESSE Oscai		n 20	24	CRUISE	1D			PRO. SEBS	JECT & L	EG \		CTD File	Name				
CTD C	ast#	LAT	TTUDE	L	ONGITU	JDE	GM'		note if not GMT)	GMT Time		rface emp	BOT DEP		STATION NUMBER	STN. NA	ME/ID
19	99	-	MIN 9.68 N	DEG 170	59,5	IN'	w 20	19.0	1 1	HR 4 68;		(°C)	(m		20		
Senso SBE type at PRESS S/N	nd S/N		ally & sw	ap-outs)	Weath	er:		N			ł	ct meas	15		aid process		76
TEMP 1 &2 COND 1&2	S/Ns				1			Knt #		~40	) (0	1d 180		· ·	on Jemi	p~1,88	
FLUOR S/N O2 (SBE43 Transmiss S PAR S/N O2 SBE428	) S/N S/N				: (	wea-	her gle or	mary line	duni	fer c	ayment.	of's	hip	Yave	on Jemi	high	
O2 (SBE43 Transmiss : PAR S/N	) S/N S/N S/N DEP		Rosette No			10325311		- dy(b >1	0 dup	Preserved Phyto	SHo Plow	oDMA.	OA/DIS		Forei Ule (check below registered in log)		samples
O2 (SBE43 Transmiss : PAR S/N O2 SBE42S	) S/N S/N S/N DEP	IRED	1		GFF	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved	SHo Plow	oDMA.			Forei Ule (check below registered in	16	samples
O2 (SBE43 Transmiss: PAR S/N O2 SBE42S Nisk #	) S/N S/N S/N DEF	IRED	1	Nut.Btl	GFF vol	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto	Piow Gytometry	oDMA.		3	Forei Ule (check below registered in	16	samples
O2 (SBE43 Transmiss PAR S/N O2 SBE42S Nisk #	DESI	IRED	1	Nut.Btl	GFF voi	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto	Piow Gytometry	eDNA		×	Forei Ule (check below registered in	16	samples
O2 (SBE43 Transmiss PAR S/N O2 SBE42S Nisk #	DESI DESI 13	IRED	1	Nut.Btl 177 176 175 174	GFF voi	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto (formatin)	Piow Gytometry	eDNA		×	Forei Ule (check below registered in	16	samples
O2 (SBE43 Transmiss: PAR S/N O2 SBE42S Nisk #	DESI	IRED	1	Nut.Btl 177 176 175	GFF voi	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto (formatin)	Piow Gytometry	eDNA		×	Forei Ule (check below registered in	16	samples
O2 (SBE43 Transmiss PAR S/N O2 SBE425 Nisk #	DESI DESI 13	IRED	1	Nut.Btl 177 176 175 174	GFF voi	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto (formatin)	Piow Gytometry	edna 30		×	Forei Ule (check below registered in	16	samples
02 (SBE43 Transmiss: PAR S/N 02 SBE42S Nisk #  1 2 3 4 5 6 7	DESI DESI 13	IRED	1	Nut.Btl  177 176 177 174 173: 174	GFF voi	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto (formatin)	Plow Gytometry	edna		×	Forei Ule (check below registered in	16	samples
02 (SBE43 Transmiss : PAR S/N 02 SBE425 Nisk #  1 2 3 4 5 6 7 8	DESI DESI 13	IRED	1	Nut.Bit 177 176 175 174 173	GFF voi	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto (formatin)	Plow Gytometry	edna		×	Forei Ule (check below registered in	16	samples
02 (SBE43 Transmiss SPAR S/N 02 SBE42S Nisk #  1 2 3 4 5 6 7 8 9	DESI DESI 13	IRED	1	Nut.Btl  177 176 177 174 173: 174	GFF voi	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto (formatin)	Plow Gytometry	edna		×	Forei Ule (check below registered in	16	samples
02 (SBE43 Transmiss : PAR S/N 02 SBE425 Nisk #  1 2 3 4 5 6 7 8	DESI DESI 13	IRED	1	Nut.Btl  177 176 177 174 173: 174	GFF voi	>10 Lar	ge GF/F	- dy(b >1	0 dup	Preserved Phyto (formatin)	Plow Gytometry	edna		×	Forei Ule (check below registered in	16	samples

VESSE <b>Osca</b> i		on 20		CRUISE	1D				PROJECT		:G		С	TD Filel	Name			
CTD C			TITUDE	,	ONGITU	JDE		GMT DATE	(note i	f not	GMT Time		Surf		BOTT DEP		STATION NUMBER	STN. NAME/ID
20			MIN	DEG		IIN		DAY	МО	YR	HR	MIN	(°(	C)	(m	)		
	101	59	O.A.b.N	120	59,	893	w	26	08	2 4	13:	18	6.	44	78	-	81	- 7/2
			ally & swa								.,			···•				CTD MAX. DEPTH = 73
SBE type a		Her M																
PRESS S/N	1											at may	affec	t meas	uremen	ts or	aid process	sing
TEMP 1 82	SNs				Co	15+#	1 2	0,0	rent	出	1							
COND 182	S/Ns	_				Cold	3	2001	,	P	110	~ L	-10 m	<u> </u>				
FLUOR S/N		_						9	•		U				-			
O2 (SBE43																		
Transmiss	S/N	-							-									
PAR S/N O2 SBE425	S/N	-																
	DE	PTH	Rosette No	tes					1	/ lp	recerved	570	ble				Forel Ule /	
Nisk #	DE	SIRED	SALT Bil	Nut.Btl	GFF	>10 La	arge	GF/F du	vol (larg	P	hyto	274-540	motry wors	eDNA	OA/DI	:	(check below registered in log)	if Notes/ other samples
1	7	₹		184						1	1100	$\overline{}$	360			>		
2		6		183	250	2	0							36		X		
3		10		182		1			10 mm 1 m		×					<u> </u>		
4		30		181					2000 000			17 17 17				×		
5	-	20		180												X_		
6		10		179							×	2	136	34		X		
7																		
8		0		178											02	/ X		$O_2 = 349$
9																		***************************************
10										_		_		-				***************************************
11					 			·						ļ	-			***************************************
12					<u></u>	<u> </u>												

									$\bigcirc$						
VESSE Oscar		on 20	)24	CRUISE			- 1	PROJECT &	LEG	C	CTD File	Name			
CTD C	ast#	LA <sup>-</sup>	TITUDE	L	ONGITU	JDE	GMT DATE	(note if n GMT)	ot GMT Time		face emp		TOM PTH	STATION NUMBER	STN. NAME/ID
21		DEG	MIN	DEG	М	IIN	DAY	MO Y	'R HR	MIN (°	°C)	(	m)	0.0	
	109	59	29.506 N	170	0.0	38 W	27	682	4			6	0	22	
Senso	or IDS	(initi	ally & sw	ap-outs)	Weath	ner:							L estroi		CTD MAX. DEPTH = 56
SBE type a	nd S/N	1			- 0.			.,							
PRESS S/N	١									t may affec	t meas	ureme	nts or	aid process	sing
TEMP 1 82 COND 182 FLUOR S/N	S/Ns					hip L	cone	vent #	109		dupli	iale D	ده	Surface of	bottom
02 (SBE43)	) S/N					Pyce	2~ 4	0							
O2 (SBE43) Transmiss S PAR S/N O2 SBE42S	S/N	Ξ					thopho		imple (	ollected	- Çer	Lor	ras	P Sur 1	all
Transmiss : PAR S/N	S/N S/N	PTH	Rosette No	tes	<b>X</b>	Coccoli	thopho	ne S	mple (	546.	- Cor	Lor	nas_	Forel Ule	
Transmiss : PAR S/N	S/N S/N DE	EPTH SIRED			<b>X</b>	Coccoli	3.00	ne S	Preserved Phyto (formalin)		eDNA	Lon		1	
Transmiss S PAR S/N 02 SBE42S	S/N S/N DE	SIRED		Nut.Btl	GFF	Coccoli	thopho	>10 dup	Preserved Phyto	SH6" Plow Cytometry				Forel Ule (check below registered in	
Transmiss S PAR S/N 02 SBE42S Nisk #	S/N S/N DE	SIRED		Nut.Btl	GFF	>10 Large	thopho	>10 dup	Preserved Phyto (formalin)	SHb' Plow Cytometry TSO		OA/D	ic	Forel Ule (check below registered in	
Transmiss : PAR S/N 02 SBE42S Nisk #	S/N DE:  DE:  41	SIRED		Nut.Btl	GFF	>10 Large	thopho	>10 dup	Preserved Phyto (formalin)	SHb' Plow Cytometry TSO	eDNA	OA/D	ic X x	Forel Ule (check below registered in	
PAR S/N 02 SBE42S Nisk #	S/N DES DES 41	SIRED		Nut.Btl 190 189 188	GFF	>10 Large	thopho	>10 dup	Preserved Phyto (formalin)	SHb' Plow Cytometry TSO	eDNA	OA/D	X X	Forel Ule (check below registered in	
PAR S/N 02 SBE42S Nisk #	SAN  DE  DES  41  3	SIRED		Nut.Btl 190 189 188 187	GFF	>10 Large	thopho	>10 dup	Preserved Phyto (formalin)	SHb' Plow Gylometry ISO 1260	eDNA	OA/D	X X Y X	Forel Ule (check below registered in	
PAR S/N 02 SBE42S Nisk #	SAN  DE  DES  41  3	SIRED		Nut.Btl 190 189 188	GFF	>10 Large	GF/F dup	>10 dup vol (large)	Preserved Phyto (formalin)	SHb' Plow Cytometry TSO	eDNA	OA/D	X X Y X Y	Forel Ule (check below registered in	Notes/ other samples
PAR S/N 02 SBE42S Nisk #  1 2 3 4 5	SAN  DE  DES  41  3	SIRED		Nut.Btl 190 189 188 187 186	GFF	>10 Large	GF/F dup	>10 dup vol (large)	Preserved Phyto (formalin)	SHb' Plow Gylometry ISO 1260	eDNA	OA/D	X X Y X Y	Forel Ule (check below registered in	
Transmiss : PAR S/N 02 SBE42S Nisk #  1 2 3 4 5	SAN  DE  DES  41  3	SIRED		Nut.Btl 190 189 188 187 186	GFF	>10 Large	GF/F dup	>10 dup vol (large)	Preserved Phyto (formalin)	SHb' Plow Gylometry ISO 1260	eDNA	OA/D	X X Y X Y	Forel Ule (check below registered in	Notes/ other samples
Transmiss : PAR S/N 02 SBE425 Nisk #  1 2 3 4 5 6 7	SAN  DE  DES  41  3	SIRED		Nut.Btl 190 189 188 187 186	GFF	>10 Large	GF/F dup	>10 dup vol (large)	Preserved Phyto (formalin)	SHb' Plow Gylometry ISO 1260	eDNA	OA/D	X X Y X Y	Forel Ule (check below registered in	Notes/ other samples
Transmiss : PAR S/N 02 SBE425  Nisk #  1 2 3 4 5 6 7 8	SAN  DE  DES  41  3	SIRED		Nut.Btl 190 189 188 187 186	GFF	>10 Large	GF/F dup	>10 dup vol (large)	Preserved Phyto (formalin)	SHb' Plow Gylometry ISO 1260	eDNA	OA/D	X X Y X Y	Forel Ule (check below registered in	Notes/ other samples
Transmiss : PAR S/N 02 SBE42S Nisk #  1 2 3 4 5 6 7 8	SAN  DE  DES  41  3	SIRED		Nut.Btl 190 189 188 187 186	GFF	>10 Large	GF/F dup	>10 dup vol (large)	Preserved Phyto (formalin)	SHb' Plow Gylometry ISO 1260	eDNA	OA/D	X X Y X Y	Forel Ule (check below registered in	Notes/ other samples

VESSEL Oscar Dy	ean 2	024	CRUISE				PROJECT		G		C.	TD FileN	lame			
OSCAL DY	5011 21	024	D/15	7100	1	1	SEBS leg_			Т	1	-			1	
CTD Cast #	# LA	TITUDE	LO	ONGITU	JDE	GMT DATE	(note i GM		GMT Time		Surf Ter		BOT		STATION NUMBER	STN. NAME/ID
22/	DEG	MIN	DEG		IN	DAY	мо	YR	HR	MIN	(°(		(n			
IB		0,112 N	170		-	187	08	2 4	081				6	/	23	
Sensor ID	S (initi	ally & sw	ap-outs)	Weath	er:											CTD MAX. DEPTH =
SBE type and S/N																
PRESS S/N	W.			COMM	MENT: D	ifficult c	ondition	s, fac	tors tha	t may	affect	measu	ıreme	nts or	aid process	ing
TEMP 1 &2 SNs			and other many	CTI	cas	#		1	13							
COND 182 S/Ns									,							
FLUOR S/N	_					PYC	~ 3	8	Cr	ي د	cal	0	c	botto	m 3.6	5
02 (SBE43) S/N																
Transmiss S/N					_			0								
PAR S/N	-		10.00		Cocco	<	son ph	e to	<u>- 400</u>	YUS	(a) «	Sur to	C-C			
02 SBE42S/N																
							_	_		_	_					
	DEPTH	Rosette No	tes	GFF	>10 Larg	e GF/F dy	p >10 dur		esaeved	Plow	1.	oDNA.	OA/DI		Forel Ule (check below if	Notes other samples
Nisk #		Rosette No		GFF vol	>10 Larg Vol	GF/F du	>10 dur vol (larg	p) Pi	esamed hyto ermattn)	Ptow Cytis		eDNA	OA/DI	-		Notes/ other samples
Nisk#						CO CONTRACTOR A		p) Pi	yto <del>rmalln)</del>	Cyto	inotry	eDNA	OA/DI	-	(check below if registered in	Notes/ other samples
Nisk# D	ESIRED		Nut.Btl	vol		CO CONTRACTOR A		p) Pi	yto <del>rmalln)</del>	Cyto	inotry	eDNA	OA/DI		(check below if registered in	Notes/ other samples
1 0 2	DESIRED		Nut.Btl	vol	Vol	CO CONTRACTOR A		p) Pi	yto <del>rmalln)</del>	Cyto	inotry	eDNA	OA/DI	×	(check below if registered in	Notes/ other samples
1 (2 3	ESIRED		Nut.Btl 197-	vol	Vol	CO CONTRACTOR A		p) Pi	yto <del>rmalln)</del>	Cyto	inotry		OA/DI	× ×	(check below if registered in	Notes/ other samples
1 (2 3	DESIRED 50		Nut.Btl 197 196 195	vol	Vol	CO CONTRACTOR A		p) Pi	yto ymalln) =PLS	Cyto	inotry		OA/DI	× × ×	(check below if registered in	Notes/ other samples
1 2 3 4	SO 30		197 196 195	vol	Vol	CO CONTRACTOR A		p) Pi	yto ymalln) =PLS	Cyto D	inotry		OA/DI	× × ×	(check below if registered in	Notes/ other samples
Nisk# D  1	50 40 30		Nut.Btl 197 196 195 194 193	vol	Vol	CO CONTRACTOR A		p) Pi	yto ormalin)	Cyto D	inetry SSS		OA/DI	× × × ×	(check below if registered in	Notes/ other samples
1 2 3 4 5 6	50 40 30		Nut.Btl 197 196 195 194 193	vol	Vol	CO CONTRACTOR A		p) Pi	yto ormalin)	Cyto D	inetry SSS		OA/DI	× × × ×	(check below if registered in	Notes/ other samples
Nisk# D  1	50 40 30		Nut.Btl  197 196 195 194 193 192	vol	Vol	CO CONTRACTOR A		p) Pi	yto ormalin)	Cyto D	inetry SSS		OA/DI	× × × ×	(check below if registered in	Notes/ other samples
Nisk# D  1	50 40 30		Nut.Btl  197 196 195 194 193 192	vol	Vol	CO CONTRACTOR A		p) Pi	yto ormalin)	Cyto D	inetry SSS		OA/DI	× × × ×	(check below if registered in	Notes/ other samples
Nisk# D  1	50 40 30		Nut.Btl  197 196 195 194 193 192	vol	Vol	CO CONTRACTOR A		p) Pi	yto ormalin)	Cyto D	inetry SSS		OA/DI	× × × ×	(check below if registered in	Notes/ other samples
Nisk# D  1	50 40 30		Nut.Btl  197 196 195 194 193 192	vol	Vol	CO CONTRACTOR A		p) Pi	yto ormalin)	Cyto D	inetry SSS		OA/DI	× × × ×	(check below if registered in	Notes/ other samples

VESSE Oscar		n 20		CRUISE	1D 2409	1		PROJECT	& LE	G		C	CTD FileN	lame		<del></del>	
CTD C	ast#	LAT	TUDE	LC	ONGITU	DE	GMT DATE	(note if		GMT Time	ŕ		face emp	BOTTO DEPTI		STATION NUMBER	STN. NAME/ID
23			MIN O O O N	DEG 168	59.8	i i	DAY 27	MO	YR 2 4	HR //:5	MIN	(°	(C)	(m) 52		24	
Senso			ally & swa						:				'				CTD MAX. DEPTH = 50
SBE type a						_	•			,						tr.	
PRESS S/N											ıt ma	y affec	t measu	urements	or	aid process	sing
TEMP 1 82		_			Ca	学士と	23,	Event	116								
COND 182		-				111	\\ · ·	12.20	0.1					<u> </u>			
FLUOR S/N O2 (SBE43						. 000	-11 W	1.X-5-G	<u> 1</u> 02	rwire							18.30 (0.4
Transmiss												·					
PAR S/N						(	20110	Samp	le	Cm	who	= blo	em?	Diglist	- 92	5 couldo	+tell but
O2 SBE42S	5/N	_								roch	Et	lock	ed light	2108 -c	^</th <th>)</th> <th></th>	)	
	DEF	тн	Rosette No	tes	GFF	>40 Larm	GE/E du	5 >10 dug		eserved	Plo	104	Ma			Forel Ule (check below	16
Nisk #	DES	RED	SALPEN	Nut.Btl		Vol	vol	vol (large	2/ LL1	ryto <del>rmalin</del> )	Gy	tometry	eDNA	OA/DIC		registered in	" Notes/ other samples
1	47	-		203	320	220				×	3.	7(0			X		
2	40			509			1	<u> </u>	$\perp$		4		3L		>		
3	3.	2		201												• • • • • • • • • • • • • • • • • • • •	
4	2	0		200							4				X		.1.01.01.01.01.01.01.01.01.01.01.01.01.0
5	1	0		199				<u> </u>		X	2	136	36		X	•	****
6	- · (			198					$\perp$		_		ļ		X	Best	Caro Sample
7																	***
8				,													
9																	•
10			[														
11																	
12																	

. .

VESSE Oscar	L Dyso	n 20		CRUISE	1D 2409			PROJECT	& LEG			CTD File	Name					
CTD C	aet #	ΙΔΤ	TITUDE	11	ONGITU	IDE	GMT DATE	(note if		MT ime		urface Temp	BOTTO DEPT		STATION NUMBER		STN. NA	.ME/ID
			MIN	DEG	М		DAY		YR			(°C)	(m)	••	TOME EX		01111111	
24	123 5	$\rightarrow$	27,879 N	•	56.1				1	0416	1	` '	55		25			
-			ally & swa		Weath		0.0	14101								СТДМ	AX, DEPTH =	18
SBE type a	nd S/N	- 200-0																
PRESS S/N										rs tha	t may affe	ct meas	urement	ts or	aid proces	sing		
TEMP 1 82	SNs				Cas	1#2	(E	ven+ 1	23									
OND 182		_				/ 1			11.		. 1	. \						
FLUOR S/N		_			120	ather	30 K	5, Su	rells	Pere	2 40 m	191						
D2 (SBE43 Fransmiss :		-	0 15 10	-														
PAR S/N	OI I	-																
					1													
2 SBE429	S/N	250																
02 SBE428		тн и	Rosette No	tes					Pres	served	546			Jin I	Forel Ule			Fine
	DEF		Rosette No		GFF vol	>10 Large Vol	GF/F du	>10 dup	) Phyl	to mallin)	SAD Figur Oytometi TSO	y eDNA	OA/DIC		Forel Ule (check below registered in log)		Notes/ other	samples
	DES	IRED	/		NUMBER OF STREET	Vol	The second second		) Phyl	to	Cytometr	y	OA/DIC	×	(check below registered in		Notes/ other	samples
Nisk #	DEF	IRED	/	Nut.Btl	vol	Vol	The second second		) Phyl	to mallin) PCB	Cytometi TSO	y	OA/DIC		(check below registered in		Notes/ other	samples
Nisk #	DES	IRED	/	Nut.Btl	vol	Vol	The second second		) Phyl	to mallin) PCB	Cytometi TSO	5	OA/DIC	×	(check below registered in		Notes/ other	samples
Nisk #	DES	IRED	/	Nut.Btl 209	vol	Vol	The second second		) Phyl	to mallin) PCB	Cytometi TSO	5	OA/DIC	×	(check below registered in		Notes/ other	samples
Nisk #	DESIDES	IRED	/	Nut.Btl  209 208 207	vol	Vol	The second second		Phyl (form	to mallin) PCB	Cytometi TSO	31-	OA/DIC	× ×	(check below registered in		Notes/ other	samples
Nisk # 1 2 3 4 5	DESIDES	IRED	/	Nut.Btl  209 208 207 206 205	vol	Vol	vol	vol (łarge	Phyl (form	to malling	Oytometi ISO 22(0)	31-	OA/DIC	× × ×	(check below registered in		Notes/ other	samples
Nisk #	DES 78 45 30 20 10	IRED	/	Nut.Btl  209 208 207 206	vol	Vol	vol	vol (łarge	Phyl (form	to malling	Oytometi ISO 22(0)	31-	OA/DIC	× × × ×	(check below registered in		Notes/ other	samples
Nisk # 1 2 3 4 5 6 7	DES 78 45 30 20 10	ired	/	Nut.Btl  209 208 207 206 205	vol	Vol	vol	vol (łarge	Phyl (form	to malling	Oytometi ISO 22(0)	31-	OA/DIC	× × × ×	(check below registered in		Notes/ other	samples
Nisk #  1 2 3 4 5 6 7 8	DES 48 45 30 20 00 00 00 00 00 00 00 00 00 00 00 00	ired	/	Nut.Btl  209 208 207 206 205	vol	Vol	vol	vol (łarge	Phyl (form	to malling	Oytometi ISO 22(0)	31-	OA/DIC	× × × ×	(check below registered in		Notes/ other	samples
2 3 4 5 6 7 8 9	DES 48 45 30 20 00 00 00 00 00 00 00 00 00 00 00 00	ired	/	Nut.Btl  209 208 207 206 205	vol	Vol	vol	vol (łarge	Phyl (form	to malling	Oytometi ISO 22(0)	31-	OA/DIC	× × × ×	(check below registered in		Notes/ other	samples
Nisk #  1 2 3 4 5 6 7 8	DES 48 45 30 20 00 00 00 00 00 00 00 00 00 00 00 00	ired	/	Nut.Btl  209 208 207 206 205	vol	Vol	vol	vol (łarge	Phyl (form	to malling	Oytometi ISO 22(0)	31-	OA/DIC	× × × ×	(check below registered in		Notes/ other	samples