VESSEL Cape Flattery	2016		8	CRUISE ID	GF16	1		PROJECT &	LEG (i	f needed)		ne (None if da ctd o	ta is live feed)	K 8
CTD consec CAST #		LATITUDE			LONGITUDE		GMT DATE	(note	if not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
001	DEG	MIN		DEG	MIN		DAY	мо	YR	HR	MIN	(°C)	(m)		
<i>ଚ</i> ଠା	60	00,17	N	169	58.96	w	28	08	1 6	10	20	10,29	50	01	27 N
Sensor IDS (in	nitially & s	wap-outs)			Weather:	ulp		SF+ S	eus			*		10	CTD MAX. DEPTH =
SBE type and S/N PRESS S/N					COMMENT: Diff	ficult	conditio	ons. factors	that ma	v affect	measur	ements or aid pr	ocessing		45
TEMP 1 &2 SNs					31, 2										
COND 182 S/Ns FLUOR S/N	4	F	-							-	-			15.	
02 (SBE43) S/N	· -												+13		
Transmiss S/N															
PAR S/N			- 5	-K							15.		10 03		
02 SBE42S/N			277	110											13

A	DEPTH	Rosette Notes	1	lydro Team		GFF	>10 Large	GFF dup vol	>10 dup vol (large)	Phyto	Lipids	Comments or other	Nisk
Nisk#	DESIRED		SALT Btl	Nut.Btl		lov	Vol	Grr dup voi	(large)	preserve	Lipius	samples	#
1	Om		I Fals	- Q I		250		1_					1
2	10		ol	10 2			250		6250				2
3	20			20 3		1 T	250		200	,			3
4	3.0	***************************************		304			250		250		627		4
5	40			40-5		V					3		5
6	45 (B+11)			1)-2-6	-	250						***************************************	6
7		a de la companya de l	1/4			8		<u> </u>					7
8	***************************************									11 33-		22	8
9													9
10	***************************************											· -	10
11	Sil				141	77		1 =		W.	:: I		11
12													12

vessel Cape Flatter	2016			CRUISE ID	F16			PROJECT 8	LEG (if	f needed)		me (None if dat	a is live feed)	
CTD consec CAST #		LATITUDE			LONGITUDE		GMT DATE	(note	if not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN		DEG	MIN		DAY	МО	YR	HR	MIN	(°C)	(m)		
600	60	00.12	N	168	59,70	w	28	08	1 4	15.	:16	10,8	37	02	
Sensor IDS (in	nitially & s	wap-outs)			Weather: Cul	Ŋ	Seus	2-5	Pt						CTD MAX. DEPTH =
SBE type and S/N						N	-								30
PRESS S/N					COMMENT: Diffi				that ma	y affect	measur	ements or aid p	rocessing		
TEMP 1 82 SNs					BtM	1 1	1-47 = 3	31.0							
COND 182 S/Ns					Sulin	jh	top =	31.0							
FLUOR S/N							1								
02 (SBE43) S/N					L.										
Fransmiss S/N															
PAR S/N								egres contra							
02 SBE42S/N															

Nisk #	DEPTH	Rosette Notes	Н	ydro Team	GFF	>10 Large	GFF dup voi	>10 dup vol	Phyto	Lipids	Comments or other	Nisk
IVISK #	DESIRED		SALT BII	Nut.Btl	vol	Vol	GFF dup voi	(large)	preserve	Lipids	samples	#
1	0	BHL 1		6	250		1.6					1
2	10	3		= 7	1	250	1					2
3	20	4		8	V	1						3
4	30	10		9	250	250						4
5	40	- 11		2.0								5
6		BHT 15										6
7												7
.8										1		8
9					12							9
10			21:									10
11												11
12												12

VESSEL Cape F	lattery	2016		c	CRUISE ID	CFI	6		PRO NB:	OJECT & LEG S leg	(if needed)		C		ne (None if dat			
CTD c			LATITUDE			LONGITUDE		GMT DAT		- ZP-16 (note if no	t) GMT	Time	Surfa	се Тетр	BOTTOM DEPTH	STATION NUMBER	ST NAM	
		DEG	MIN	Ш	DEG	MIN	ı	DA	Υ	MO YI		MIN		(°C)	(m)			
03	3	60	00.07	N	167	59.9	0	w Z	8.	081	B 22	99	13.	0)	21	05		
Sensor	IDS (ini	tially & s	wap-outs)			Weather:	Cs	alm	31	et seus	18 16						CTD MAX. D	DEPTH =
SBE type and PRESS S/N TEMP 1 &2 SI COND 1&2 S/ FLUOR S/N O2 (SBE43) S Transmiss S/N PAR S/N	Ns Ms M				- 1		Hiy	_		factors that 30, 7		measu	rement	s or aid pr	ocessing			
02 SBE42S/N	<u> </u>	-				-												
) ЕРТН	Rosette Notes	T	Н	ydro Team			3FF	>10 Large	age t	. >10) dup vo	Phyto		Comments	or other	Nisk
02 S8E42S/N		DEPTH DESIRED	Rosette Notes	Si	Hy ALT Bu	ydro Team Nut.Btl				>10 Large Vol	GFF dup vo	M) dup vo large)	Phyto preserve	Lipids	Comments sampl		Nisk #
			Rosette Notes	Si							GFF dup vo	M			Lipids			
Nisk#		ESIRED	Rosette Notes	Si		Nut.Btl		2	vol		GFF dup vo	M			Lipids			#
Nisk#	D	DESIRED	Rosette Notes	Si		Nut.Btl		2	vol 50	Vol	GFF dup vo	M			Lipids			1
Nisk# -	D	DESIRED 0	Rosette Notes	Si	ALT Bil	Nut.Btl		2	50 1/	Vol <i>ν</i> 50	GFF dup vo	и (Lipids			1 2
Nisk# -	D	DESIRED 0	Rosette Notes	Si	ALT Bil	Nut.Btl		2	50 1/	Vol <i>ν</i> 50	GFF dup vo	и (Lipids			1 2 3
Nisk# - 2 3 4	D	DESIRED 0	Rosette Notes	SA	ALT Bil	Nut.Btl		2	50 1/	Vol <i>ν</i> 50	GFF dup vo	и (Lipids			1 2 3 4
Nisk# 1 1 2 3 3 4 4 5	D	DESIRED 0	Rosette Notes	SA	ALT Bil	Nut.Btl		2	50 1/	Vol USO	GFF dup vo	и (Lipids			1 2 3 4 5
Nisk# - 2 3 3 4 5 6	D	DESIRED 0	Rosette Notes	SA	ALT Bil	Nut.Btl		2	50 1/	Vol USO	GFF dup vo	и (Lipids			# 1 2 3 4 5 6
Nisk# - 2 3 3 4 5 6 7	D	DESIRED 0	Rosette Notes	SA	ALT Bil	Nut.Btl		2	50 1/	Vol USO	GFF dup vo	и (Lipids			# 1 2 3 4 5 6 7
Nisk# 1	D	DESIRED 0	Rosette Notes	SA	ALT Bil	Nut.Btl		2	50 1/	Vol USO	GFF dup vo	и (Lipids			# 1 2 3 4 5 6 7 8 9
Nisk# - 1	D	DESIRED 0	Rosette Notes	SA	ALT Bil	Nut.Btl		2	50 1/	Vol USO	GFF dup vo	и (Lipids			# 1 2 3 4 5 6 7 8

VESSEL Cape Flatte	ery 2016	3	CRUISE ID	CF1	6		PROJECT & LEG NBS leg 1	(if needed)			ne (None if dat <u>「</u> ー/しょて		
CTD consec		LATITUDE		LONGITUDE		GMT DATE	(note if no	ot) GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/II
	DEG	MIN	DEG	MIN		DAY	MO Y	R HR	MIN	(°C)	(m)		
04	60	29,9905	166	59,921	17 W	29	AUG 1	46.	38	13	a 3	04	
Sensor IDS ((initially & s	swap-outs)		Weather:	Das	f	14						CTD MAX. DEPTI
SBE type and S/N											-		
PRESS S/N	_			COMMENT:	Difficult	condition	s, factors that	may affect i	neasure	ments or aid p	rocessing		
EMP 1 82 SNs	H = =								-				
COND 1&2 S/Ns RUOR S/N						_						2	-
02 (SBE43) S/N				BTM	=13								
Transmiss S/N	=			terp									
PAR S/N				BTM temp salihii	hg =	29.6			0.50 14				
02 SBE42S/N	-												
			,						_		1	1	
Niela #	DEPTH	Rosette Notes	Н	ydro Team		GFF	>10 Large	CEE due vo	>10	dup vol Phyto	Linide	Comments	or other N
Nisk#	DESIRED	Rosette Notes	SALT BU	ydro Team Nut.Bti		GFF vol	>10 Large Vol	GFF dup vo		dup vol Phyto rge) preserve	Lipids	Comments of sample	1
Nisk#		Rosette Notes		1				GFF dup vo			Lipids		1
1	DESIRED	Rosette Notes		Nut.Bti		vol		GFF dup vo			Lipids		es
1 1 2 3	DESIRED	Rosette Notes		Nut.Bti		250	Vol	GFF dup vo			Lipids		25
2 }	DESIRED 0	Rosette Notes		Nul.Bti		250 1	250	GFF dup vo			Lipids		25

VESSEL Cape FI	attery 2016		CRUI	CF16				PROJECT & L NBS leg	LEG (if needed	i)	С	TD FileNam C	ne (None if dan F16 e+c	ta is live feed)	
CTD co		LATITUDE		LONGI	TUDE	ä	GMT DATE	(note if	fnot)	GMT	Time	Surfac	се Тетр	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN		EG	MIN		DAY	МО	YR	HR	MIN	((°C)	(m)		
5	60	29.93	N 16	50	1.89	w	29	-09	1 A	15	:39	17.6	59	25		5
Sensor	IDS (initially 8	swap-outs)		Weat	her:				3.7.7		171				c	OTD MAX. DEPTH =
SBE type and S	S/N							G.								
PRESS S/N				СОМ	MENT: Dif	fficult	condition	s, factors tl	hat m	ay affec	t measu	rements	or aid pr	ocessing		
TEMP 1 &2 SN	ds _					477 = 4V										
COND 182 S/N	Ns				Btn		12,7									
FLUOR SAN														NAME OF TAXABLE PARTY.		
O2 (SBE43) S/	N _				Sept		29.6									
Transmiss S/N													13/11/1		10	
	_				T											
PAR S/N	_															
	_										Y-	******				
PAR S/N 02 SBE42S/N	_	Rosette Notes		Hydro Tear	n		GFF	>10 Large	-		. >10) dup vol	Phyto		Comments or	other Nisk
PAR S/N		Rosette Notes	SALTE		n		GFF vol	>10 Large	e	GFF dup v) dup vol large)	Phyto preserve	Lipids	Comments or samples	
PAR S/N 02 SBE42S/N	DEPTH	Rosette Notes	SALTE	-	n II		vol		e	GFF dup v				Lipids		
PAR S/N 02 SBE42S/N	DEPTH DESIRED	Rosette Notes	SALT E	ll Nut.Btl	n II				9	GFF dup v				Lipids		#
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED	Rosette Notes		Nut.Btl	n		vol 250	Vol	9	GFF dup v				Lipids		1
PARIS/N 02 SBE42S/N Nisk #	DEPTH DESIRED O	Rosette Notes		Nut.Btt 16 17			250	Vol 2-56	2	GFF dup				Lipids		1 2
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED O	Rosette Notes		Nut.Btt 16 17	n		250	Vol 2-56		GFF dup v				Lipids		1 2 3 4
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4	DEPTH DESIRED O	Rosette Notes		Nut.Btt 16 17	n		250	Vol 2-56		GFF dup v				Lipids		1 2 3
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5	DEPTH DESIRED O	Rosette Notes		Nut.Btt 16 17	n II		250	Vol 2-56	9	GFF dup				Lipids		1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6	DEPTH DESIRED O	Rosette Notes		Nut.Btt 16 17	n I		250	Vol 2-56		GFF dup				Lipids		1 2 3 4 5 6
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED O	Rosette Notes		Nut.Btt 16 17	n		250	Vol 2-56		GFF dup				Lipids		1 2 3 4 5 6 7
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8	DEPTH DESIRED O	Rosette Notes		Nut.Btt 16 17	n		250	Vol 2-56	9	GFF dup				Lipids		1 2 3 4 5 6 7 8
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9	DEPTH DESIRED O	Rosette Notes		Nut.Btt 16 17	n		250	Vol 2-56	3	GFF dup				Lipids		# 1 2 3 4 5 6 7 8 8 9

.

VESSEL Cape F	Flattery 2016		CR	RUISE ID	۲			PROJECT & LE	G (if	needed)			ne (None if dat			
	consec ST #	LATITUDE		U	ONGITUDE		GMT DATE	(note if i	not)_	GMT	Time Sur	face Temp	BOTTOM DEPTH	STATION NUMBER	ST	
	DEG	MIN	\coprod	DEG	MIN		DAY	МО	YR		MIN	(°C)	(m)			
0	60	29.98	N I	169	00.06	w	29	08	6	ZO - :	32 11	8	34	06		
Senso	r IDS (initially & s	swap-outs)		\	Veather:						·				CTD MAX. D	DEPTH =
SBE type and	1 S/N															
PRESS S/N	_				OMMENT: Di	fficult	conditio	ns, factors the	at ma	y affect me	easureme	nts or aid p	rocessing			25 OE
TEMP 1 82 9	SNs							in-								
COND 182 S	/Ns		v-		Salinit	7		54.2								
FLUOR S/N	_				3		I n	7.			19.1					- 12
O2 (SBE43) \$	-				1301904		emp	7.			84					0.35
Transmiss S/I PAR S/N			-											0		
02 SBE42S/I																
	N															
	DEPTH	Rosette Notes		Hydri) Team		GEF	>10 t arge	<u> </u>		>10 dun	voliPhyto		Comments	or other	Mink
Nisk#		Rosette Notes	SAL	-	Team		GFF vol	>10 Large Vol	0	GFF dup vol	>10 dup (large)	vol Phyto preserve	Lipids	Comments sampl		Nisk #
	DEPTH	Rosette Notes	SAL	LT Bill N	ut.Btl				G	SFF dup vol			Lipids			
1	DEPTH DESIRED	Rosette Notes	SAL	LT Bill N	250 P				6	GFF dup vol			Lipids			1
1 2	DEPTH DESIRED	Rosette Notes	SAL	LT Bill N	250 P		250		6	SFF dup vol			Lipids			1 2
1 2 3	DEPTH DESIRED	Rosette Notes	SAL	LT Btl N	250 9 20 20		250 V		G	SFF dup vol			Lipids			1 2 3
1 2 3 4	DEPTH DESIRED	Rosette Notes	SAL	LT Btl N	250 P		250		6	SFF dup vol			Lipids			1 2 3 4
1 2 3 4 5	DEPTH DESIRED	Rosette Notes	SAL	LT Btl N	250 9 20 20		250 V		G	SFF dup vol			Lipids			# 1 2 3 4 5
1 2 3 4 5	DEPTH DESIRED	Rosette Notes	SAL	LT Btl N	250 9 20 20		250 V		G	SFF dup vol			Lipids			# 1 2 3 4 5 6
1 2 3 4 5 6 7	DEPTH DESIRED	Rosette Notes	SAL	LT Btl N	250 9 20 20		250 V		C	SFF dup vol			Lipids			# 1 2 3 4 5 6 7
1 2 3 4 5	DEPTH DESIRED	Rosette Notes	SAL	LT Btl N	250 9 20 20		250 V		C	SFF dup vol			Lipids			# 1 2 3 4 5 6 7 8
1 2 3 4 5 6 7	DEPTH DESIRED	Rosette Notes	SAL	LT Btl N	250 9 20 20		250 V		C	SFF dup vol			Lipids			# 1 2 3 4 5 6 7

VESSEL Cape F	lattery 20	016		CRUISE	1D F16			PROJECT & LEG			CTD FileNar	ne (None if dat	a is live feed)		
	consec ST #	ال الم	TITUDE	-	LONGITUE	E	GMT DATE	(note if n	ot) GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
20	d DE	G	MIN	DE	3 М	IN	DAY	MO ,	r HR	MIN	(°C)	(m)			
0=	7 6	90	30,06	N 169	59.	88 v	30	087	\$ 02	41	10.4	46		07	
Sensor	r IDS (initia	lly & swa	p-outs)		Weather	:		<u> </u>				-		CTD MAX. D	EPTH:
SBE type and PRESS S/N EMP 1 82 S			v 0		COMME	NT: Difficul	t conditio	ns, factors tha	t may affect m	neasure	ments or aid pr	ocessing			
COND 182 S FLUOR S/N O2 (SBE43) S Transmiss S/I PAR S/N	S/N				13-	tm 1	remp	0, 58	-)				**		
7AN 5M D2 SBE42SA				17			6						II and		
Nisk#	DEP	TH F	losette Notes		Hydro Team		GFF	>10 Large	GFF dup vol		lup vol Phyto	Lipids	Comments	or other	Nis
INISK #	DES	IRED		SALT Bil	Nut.Btl		vol	Vol	Orr dup voi	(lar	ge) preserve	Бріцэ	sampl	es	#
1				-	23		250		87						1
2	10				24		1	520					300		2
3	70				25			250							3
4	30				76		1								4
5	40	i i		4	27		250								5
								****				1			6
6						1			Ì						7
7							1		-			(*)			B
7							N .		·			+			
7							 								9
7 8 9								ì	<u> </u>						9
7															10
7 8 9															╫┈

vessel Cape Flatter	y 2016	9	CRUISE II	CFIL			PROJECT & NBS leg	LEG (i	f needed)		ст		ne (None if dat / c F/ C	ta is live feed)		
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE	(note	if not)	GMT	Time	Surface	e Temp	BOTTOM DEPTH	STATION NUMBER	STI NAME	
	DEG	MIN	DEG	MIN	(5)	DAY	мо	YR	HR	MIN	("	C)	(m)	4.5		
oX	60	59.93	N 170	60.04	w	- 30	0.8	1 3	15:0	7	10	20	43	08	\$4	
Sensor IDS (i	nitially & s	wap-outs)		Weather:	- E		27.1.12		-C	100				U	CTD MAX. DI	EPTH =
SBE type and S/N	, E 10				W		5			0	99	100	Λ	9	38	
PRESS S/N	_			COMMENT:					ay affect n	neasur	ements	or aid pr	ocessing			
TEMP 1 &2 SNs	10			Su	lr	- F	30.									
COND 182 S/Ns				Rt	· N	temp		0.45								
FLUOR S/N									31							
02 (SBE43) S/N	_			lo	13	OF	SCGL	1049	14-t	erro	15-	24	74			
Transmiss S/N	_											45	000			
PAR S/N	³ , = <u>-</u>		X		<u> </u>											
O2 SBE42S/N										-						
Nisk#	DEPTH	Rosette Notes		Hydro Team		GFF	>10 Lar	ge (GFF dup vol		dup vol l	Phyto	Lipids	Comments	or other	Nisk
NISK #	DESIRED	F 30	SALT Bil	Nut.Btl		vol	Vol		OFF DUP VO	(la	arge) (preserve	Шріцэ	samp	les	#
1	0		N)	28		250	,		5	W.			1			1
2 (0			29			25°0							0		2
3 1	<u></u> ω.			30			250	5						are.	U	3
													_			

Nisk#	DEPTH	Rosette Notes		iyoro ream		GFF	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto	Lipids	Comments or other samples	Nisk
INISK #	DESIRED	2	SALT Bil	Nut.Btl		vol	Vol	dir dup voi	(large)	preserve	Lipid3	samples	#
1	0	x=x		28		250		5					1
2	(0			29			250					10	2
3	10.			30			250					w/	3
4	30			31		1	250						4
5	38 (BTa)			3. J		250				u		31 (Me)	5
6							11		*				6
7					**	<u> </u>					64 (4)		7
8	1	TO A TE		2			*						8
9				1 8									9
10					1 5				9				10
11	l es												11
12				4	5	. 2						12	12

VESSEL Cape Fla	ttery 2016		CRUISE ID	(F/6	10		PROJECT & LE	G (if needed)	CTD FileNar	ne (None if dat	a is live feed)	.8
CTD cor	#	LATITUDE		LONGITUDE		GMT DATE	(note if r		Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
0	DEG	59.98	DEG N 169	00.10	w	JAY 30	MO 8 1	YR HR	MIN 45	(°C)	(m) 32m	09	
Sensor II	DS (initially & s	wap-outs)		Weather:									CTD MAX. DEPTH
TEMP 1 &2 SNs COND 1&2 SNs FLUORI SN O2 (S8E43) SN Transmisa SN PARI SN	_			137	- 7	temp	617		34	ements or aid p		5 00 7.8 3	
02 S8E42S/N	DEPTH	Rosette Notes	_	lydro Team		GFF	>10 Large Vol	GFF dup v		dup vol Phyto	Lipids	Comments	
1	DESIRED		SALT BU	Nut.Btl		250			,,,				1
2	lo		5	34		1	250						2
3	70			35			250						3
4	25			36		250	*****						4
5			-										5
						1		1					
6													6
6 7								,					6

vessel Cape Flattery	y 2016		CRUISE II	76	14		PROJECT & LE	G (if neede	d)		me (None if dat	a is live feed)	
CTD consec CAST #	5	LATITUDE		LONGITUDE		GMT DATE	(note if I	not) GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	МО	YR HR	MIN	(°C)	(m)	U)	
(0)	60	59.97	N 167	59.90	{ w	3.1	OP	16 00	40 =	12.4	24		*_
Sensor IDS (in	nitially & s	wap-outs)	8.5	Weather:	81							v	CTD MAX. DEPTH =
SBE type and S/N			0 1								63	2 1	20
PRESS S/N								at may affect	t measu	rements or aid p	rocessing		
TEMP 1 &2 SNs COND 1&2 S/Ns	_			Soll	hity.	-	288			-			
FLUOR S/N	-			13+A	+	0.150	- [1.	d	- 1111				
02 (SBE43) S/N	_		0.	- ')		~ #	[1.	7					
Transmiss S/N													
PAR S/N													
02 SBE42S/N													
Nisk#	DEPTH	Rosette Notes		Hydro Team		GFF	>10 Large	GFF dup		O dup vol Phyto	Lipids	Comments	7 17 411
	DESIRED	1	SALT BII	Nut.Btl		vol	Vol		R.,	(large) preserve		sampl	es #
<u> </u>	0			37		250							1
2	[6	100 M		38		レ	250		,5				2
3 7	Ø			39		250	250			= 1			3
4										81			4
5	11						****						5
6													6
7													7
8								18, 83					8
9													9
10	<u> </u>									(a)			10
11							1			8 5	0.00		111

				10.0				ñ p		35.5			T 50
VESSEL Cape Flattery	2016		CRUISE ID	16	741 -3		PROJECT & LE	G (if needed)	7.6 4	CTD FileNai	me (None if dat CCTO 16	a is live feed)	8
CTD consec CAST #		LATITUDE	3 V	LONGITUDI	E _{jt}	GMT DATE	(note if n	ot) GMT	Time Surf	ace Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
2 = =	DEG	MIN	DEG	MI	N .	DAY	МО	YR HR	MIN	(°C)	(m)		5
11	61	00.04	N 166	59	187 V	v 31	08 1	6 05	28 6	/	19	41	
Sensor IDS (ini	itially & sv	vap-outs)		Weather:	r	lice,	(= /	7	T is		34		CTO MAX. DEPTH
SBE type and S/N	- X <u></u>							# =		Α.,	11		15
PRESS S/N	100			COMMEN	IT: Difficu	lt condition	ns, factors tha	t may affect i	neasuremen	ts or aid p	rocessing	<u> </u>	
TEMP 1 &2 SNs				Bto	13.5				9 20		13		
COND 182 S/Ns	-				7. 0								
FLUOR S/N				Su Lih	ity	31,3							
02 (SBE43) S/N	- 10 <u>- 11 - 11 - 11 - 11 - 11 - 11 - 11</u>					Carrent L							
Fransmiss S/N	39-2	WF											
PAR S/N - O2 SBE42S/N			og.	SCu	n [an)	rth e	prors -						100
								7277	2		W. W. C.	8 5	
Nisk#	DEPTH	Rosette Notes	Hy	dro Team		GFF	>10 Large	GFF dup vo	>10 dup v		Lipids	Comments or	100
	DESIRED		SALT Btl	Nut.Btl		vol	Vol		(large)	preserve		sample	s #
1	0			40	=0.5	756			in .		T.K.		1
2	10			41		U	150		X)			É	2
3 11	5 11		6	42		250	250	·		11			. 3
4	4			1 100	Ш						#4	814 3	4
5	8 1				1111	<u> </u>			ı L		22 54	D 200	5
			10.45			1					[24 PS]		6

VESSEL Cape Fla	attery 2016		CRUISE I	CF1	6		PROJECT & LEG NBS leg	i (if needed)			ne (None if data	a is live feed)	
CTD co		LATITUDE		LONGITUD	E	GMT DATE	(note if no	ot) GMT	Time 5	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	у М	N	DAY	мо ч	R HR	MIN	(°C)	(m)		
15	61	29.92	N 167	00.0	4 w	31	081	4 15:0	28	3,5	17	12	
Sensor I	DS (initially &	swap-outs)		Weather:	early	y mo	rhing (culm					MAX. DEPTH =
SBE type and S/ PRESS S/N TEMP 1 &2 SNs COND 1 &2 S/Ns	_		\$		IT: Difficult	condition	es, factors that	may affect n		nents or aid p	rocessing		۵
FLUOR S/N O2 (SBE43) S/N													
PAR S/N 02 SBE42S/N	=		118	Su	ir fice	Salinity	- 7	.9, 8					
Nisk#	DEPTH	Rosette Notes		Hydro Team		GFF	>10 Large	GFF dup voi		up vol Phyto	Lipids	Comments or ot	her Nisk
IVISK #	DESIRED		SALT Btl	Nut.Btl		vol	Vol	GIT GOD VOI	(larg	preserve	Lipius	samples	*
1	0			43		250							1
2	10	88_		44		250	250					12	2
3	17			-				1					
	16												3
4	lQ											***************************************	3 4
5					************			-					
5	I												4
5													5 6
5 6 7				-				-					4 5
5 6 7 8													4 5 6 7 8
5 6 7 8													4 5 6 7 8 9
5 6 7 8													4 5 6 7 8

. 8 -__

									·					= =	
vessel Cape Fla	attery 2016	2 _ 1	CRUISE ID	CF16			PROJECT & LE	G (if ne	eded)	(CTD FileNai	me (None if dat 16 013	ta is live feed)		
CTD co	Т#	LATITUDE	m 3.	LONGITUDE	r	GMT DATE	(note if i				ce Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
13	DEG 61	30.03	DEG N 167	59.9		DAY 31	MO 2 1			11 S	(°C)	(m) 29	13		
Sensor	IDS (initially &	swap-outs)		Weather:	Co	ulm,	sunny					\h.		CTD MAX. D	EPTH
SBE type and S	5/N	= 50 E												20	
PRESS S/N				COMMENT	T: Difficult	t condition	s, factors th	at may a	ffect me	asurement	s or aid p	rocessing			
TEMP 1 &2 SN	<u> </u>			-0			~n-a								
COND 1&2 S/N	ts			Sali	nity	_	30.0			M 10.1 036	100000	- 1/5			
LUOR S/N	_								,						
02 (SBE43) S/I Transmiss S/N	-			Btm	-		8.77								
PAR S/N	-			RIM	IEM	Ρ	Qt 1								
02 SBE42S/N									5						
	DEPTH	Rosette Notes	Hy	rdro Team		GFF	>10 Large	000	ne m	>10 dup vo	Phyto		Comments	or other	Nis
Nisk#	DESIRED		SALT Bil	Nut.Btl		vol	Vol	GFF	dup vol	(large)	preserve	Lipids	sample	es	#
1	Ō			45		250				T T					1
2	10		7	46		250	250								2
3	70			47		250	250								3
4											li				4
5								5500 P				11			5

vessel Cape Flatt	ery 2016	<u> </u>	CRUISE	D CF16			PROJECT &	LEG (if needed)		CTD FileNar	ne (None if da	ta is live feed)		
CTD conse	ec	LATITUDE		LONGITUE	DE	GMT DATE	(note	if not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER		TN. 4E/ID
	DEG	MIN	DEC	і М	IN ×	DAY	МО	YR	HR	MIN	(°C) #1	(m)	54		
14	61	30.00	N 169	00.	26 v	v t	09	10	DO :	29	10,25	31	14	=	
Sensor IDS	initially & s	swap-outs)	48 A	Weather			1 196	1221	1.1	_	4.8	100	W.,	CTD MAX.	DEPTH =
SBE type and S/N									-		J 28 L			25	
PRESS S/N		5.	WW.	COMME			ns, factors	that m	ay affect m	easur	ements or aid pi	ocessing		25	
TEMP 1 &2 SNs	" PCV			suli	nite	30.1							87		- 11
COND 1&2 S/Ns							D. Co.								
FLUOR S/N	_		- 2	1312	· tem	0	3.9	:							
02 (SBE43) S/N															
Transmiss S/N	-						8								
PAR S/N	_											12			
O2 SBE42S/N															
	DEPTH	Rosette Notes	1	Uhidea Team											
Nisk#	DESIRED	nosette Notes	SALT BU	Hydro Team Nut.Btl		GFF vol		ge	GFF dup vol		dup voi Phyto arge) preserve	Lipids	Comments		Nisk #
1	0		74 15	48		250	2								1
2	10			49		1	250	,							2
3	70		7 7 =	50		\forall	1								3
4	25			51		250		>	*************			-			4
5			1. 0.0							E			-		5
6															6
7															7
8				à		<u> </u>							6		8
9		3 3		[8]	III.						* 1				9
10									ſ	\perp					10
11				14.											11
12												Ö			12

.

VESSEL Cape Flattery	2016			CRUISE ID	CF16			PROJECT &	LEG (if	needeo	I)		ne (None if data F16 ct001		
CTD consec CAST #		LATITUDE			LONGITUDE		GMT DATE	(note	if not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN		DEG	MIN		DAY	МО	YR	HR	MIN	(°C)	(m)		
13	61	30.05	N	170	00,33	w	l l	09	1 6	15	И.	10.6	42	15	
Sensor IDS (in	itially & sv	vap-outs)			Weather:		5-8	pt sees	·	~indy	(20	knt +)			CTD MAX. DEPTH =
SBE type and S/N			A						•			,			34
PRESS S/N					COMMENT: Diff	icult	conditio	ns, factors	that ma	y affec	t measur	ements or aid p	ocessing	-	
TEMP 1 &2 SNs					Sal		; 3	U. 16			* ***				
COND 182 S/Ns															
FLUOR S/N															
02 (SBE43) S/N					13×h	ter	719 :	_	0,0	2		*			
Transmiss S/N	-						-14								
PAR S/N															
02 SBE42S/N				2								9			
													*		

A42-4-44	DEPTH	Rosette Notes	Н	ydro Team	GFF	>10 Large	GFF dup vol	>10 dup vol (large)	Phyto	Lipids	Comments or other	Nisk
Nisk#	DESIRED		SALT BU	NuLBtl	vol	Vol	GFF dup voi	(large)	preserve	Lipids	samp le s	#
1	0			52	250							1
2	16			53		250						2
3	70			54		250						3
4	30			55	4	250						4
5	35		8	56	250							5
6												6
7												7
8												8
9]							9
10										,	10	10
11												11
12												12

vessel Cape F	lattery 2016	p5	CRUISE ID	CF16		PROJECT & LEG NBS leg	(if needed)		CTD FileNan	ne (None if dat CTV 0/6	a is live feed)	,
	consec ST #	LATITUDE		LONGITUDE	GMT DATE	(note if not	t) GMT	Time Surfa	ace Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO YR		MIN	(°C)	(m)		
16	61	59.81	170	00.50	w l	09 1	4 20:5	7 10,	z9	40	16	
Sensor	r IDS (initially & s	wap-outs)		Weather:	×			-			ст) MAX. DEPTH =
SBE type and	15/N											35
PRESS S/N			81	COMMENT: Diffi	icult condition	s, factors that	may affect me	asuremen	ts or aid pr	ocessing		
TEMP 1 &2 S COND 1&2 S FLUOR S/N	-			Sal	30.6			Scan	lengh	t error	3	
O2 (SBE43) S Transmiss S/I	-			Dra	la 4.	6.3				81181181		
PAR S/N				Btn +	temp	- 01)						X
PAR S/N	Į.			***						<u> </u>		
PAR S/N	N DEPTH	Rosette Notes	-	dro Team	GFF vol	>10 Large Vol	GFF dup vol	>10 dup vo	Phyto preserve	Lipids	Comments or o	ther Nisk
PAR S/N 02 SBE42S/N	DEPTH DESIRED	Rosette Notes	Hyd SALT Bill	dro Team Nut.BU	GFF vol	>10 Large	GFF dup vol					#
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED		SALT BU	dro Team Nut.BU	GFF	>10 Large	GFF dup vol					1
PAR S/N 02 SBE42S/n Nisk #	DEPTH DESIRED	CH Bux	SALT BU	dro Team Nul.BU 57 59	GFF vol	>10 Large Vol	GFF dup vol					1 2
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED 0	Sax 1	SALT BU	dro Team Nut.BU 57 59	GFF vol	>10 Large Vol	GFF dup vol					1
PAR S/N 02 SBE42S/n Nisk # 1 2 3	DEPTH DESIRED 0 [U 20 30	CH Bux	SALT BU	dro Team Nul.BU 57 59	GFF vol	>10 Large Vol	GFF dup vol					1 2 3
PAR S/N 02 SBE42SN Nisk # 1 2 3 4	DEPTH DESIRED 0	Sax 1	SALT BU	dro Team Nut.BU 57 59 60	GFF vol	>10 Large Vol	GFF dup vol					1 2 3 4
PAR S/N O2 SBE42S/N Nisk # 1 2 3 4	DEPTH DESIRED 0 [U 20 30	Sax 1	SALT BU	dro Team Nut.BU 57 59 60	GFF vol	>10 Large Vol	GFF dup vol					# 1 2 3 4 5
PAR S/N 02 SBE42SM Nisk # 1 2 3 4 5 6 7	DEPTH DESIRED 0 [U 20 30	Sax 1	SALT BU	dro Team Nut.BU 57 59 60	GFF vol	>10 Large Vol	GFF dup vol					# 1 2 3 4 5 6
PAR S/N O2 SBE42SN Nisk # - 1 2 3 4 5 6	DEPTH DESIRED 0 [U 20 30	Sax 1	SALT BU	dro Team Nut.BU 57 59 60	GFF vol	>10 Large Vol	GFF dup vol					# 1 2 3 4 5 6 7
PAR S/N 02 SBE42SM Nisk # 1 2 3 4 5 6 7 8 9	DEPTH DESIRED O LU 20 30 35	Sax 1	SALT BU	dro Team Nut.BU 57 59 60	GFF vol	>10 Large Vol	GFF dup vol					# 1 2 3 4 5 6 7 8
PAR S/N O2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8	DEPTH DESIRED O LU 20 30 35	Sax 1	SALT BU	dro Team Nut.BU 57 59 60	GFF vol	>10 Large Vol	GFF dup vol					# 1 2 3 4 5 6 7 8 9

÷,

Lape ria	ttery 2016		CRUISE II	16			PROJECT & LEG	(if needed)		CTD FileNa	me (None if dat =16 Ctdo13	a is live feed)	
CTD cor		LATITUDE		LONGITUDE		GMT DATE	(note if no	t) GMT	Time Su	rface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/II
	DEG	MIN	DEG	≕ MIN		DAY	MOYI	R HR	MIN	(°C)	(m)		
17	62	30.10	N 170	00.25	w	2	091	6 03:	17 9	1.05	32	17	123
Sensor II	DS (initially & s	wap-outs)		Weather:			5			- (4			CTD MAX. DEPTI
8E type and S/1	м							4.1					25
RESS S/N				COMMENT: D	Difficult o	ondition	s, factors that	may affect m	easureme	nts or aid p	rocessing		
EMP 1 &2 SNs					8		C 74						
OND 182 S/Ns				Sal		. 3	1.7						
LUOR S/N	_			ts									
2 (SBE43) S/N							(5 5						
ransmiss S/N				Btm	tem	3	5,33						
AR S/N 2 SBE42S/N	-		_		-								
2 305-12311					77				-	- 12.5			
Addaha III	DEPTH	Rosette Notes		Hydro Team	1	GFF	>10 Large	GFF dup vol	>10 dup	vol Phyto	Lipids	Comments o	r other N
Nisk#	DESIRED		SALT Bil	Nut.Btl		vol	Vol	GFF dup voi	(large	preserve	Lipias	sample	
1	0			62		250							1
2	10		9	63		- 1	250	30					2
3	20	p= 11 = 7+3		64		1	250						13
4	25			65		250					_		4
5		at the second			<u> </u>								
6								25			_		
7					<u> </u>		- 14						7
8													
													9
9								***************************************					
					ll ll			l					11.1
9										- 5	+		1

VESSEL Cape Flatter	y 2016		CRUISE ID	CF-16			PROJECT & LE	G (if	f needed)			ame (None if dat	a is live feed)		
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE	(note if n	ot)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	DEG	MIN		DAY	мо	YŔ	HR	MIN	(°C)	(m)			
18	62	00.39	N 169	00.33	w	2	091	4	15:	22	10.49	33		18	
Sensor IDS (i	nitially & s	wap-outs)		Weather:			W							CTD MAX. C	EPTH =
SBE type and S/N	55													29	
PRESS S/N				COMMENT: D	Difficult	conditio	ns, factors tha	t ma	ıy affect r	neasur	ements or aid	processing			-8
TEMP 1 &2 SNs	_														
COND 182 S/Ns FLUORI S/N				Sal	:	3	0.72								
02 (SBE43) S/N	_			Dk	Tem)	1 2								_
Transmiss S/N	_			- 35 PM	10/11	,	1-2								
PAR S/N												- 10			
02 SBE42S/N									101	18 W	521 P				
Nisk#	DEPTH	Rosette Notes	Н	ydro Team		GFF	>10 Large Vol	0	GFF dup vo		dup vol Phyto	Lipids	Comments		Nisk
	DESIRED		SALT Btl	Nut.Btl		vol	VOI	L		(Ii	arge) preserve		samp	es	#
1	0			266		250							-		1
2	10			BA		ħ.	250			7.5					2
3	20			88		V	250		.,,,,						3
4	30			69		250	250	55							4
5													<u>, , , , , , , , , , , , , , , , , , , </u>		5
6			7							<u> </u>			,		6
7															7
8															8
9															9
10										***					10
11															11
12															12

vessel Cape Flatt	tery 2016		CRUISE IE	CF/6			PROJECT & LEG	G (if needed)	CTD FileNa	me (None if dat	a is live feed)	
CTD conse		LATITUDE		LONGITUDE	E	GMT DATE	(note if n	ot) GMT	Time	Surface Temp	воттом рертн	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	ИМ		DAY		YR HR	MIN	(°C)	(m)		
19	62	00,21	N 167	59.66	6 w	2	09 1	4 20:	39	11:58	43		19
Sensor IDS	S (initially & s	wap-outs)		Weather:	-		100				-		CTD MAX. DEPTH =
SBE type and S/N							(1)						19
PRESS S/N				COMMEN	T: Difficult	conditio	ns, factors tha	t may affect	measu	rements or aid p	rocessing	= 1	
TEMP 1 &2 SNs					n 1		: 67	0,0				(4)	
COND 182 5/Ns				_ B+	n,	len,o	: 61	8					12
FLUORS/N													
O2 (SBE43) S/N													
Transmiss S/N		W 187											
PAR S/N				_									
O2 SBE42S/N										5-8			7.2
	DEPTH	Rosette Notes	1	lydro Team		GFF	>10 Large		>10	dup vol Phyto	7 - 7	Comments o	rother Nisk
Nisk #	DESIRED		SALT Bu	Nut.8tl		vol	Vol	GFF dup v		large) preserve	Lipids	sample	
1	D			70		250					1		1
2	(O			P4(22	250				•••		2
3	20		10	72		250							3
4	-30_												4
5	35	1 1											5
6			1										6
7													7
8									2			1	8
9													9
10										311			10
11				5 0W									11
12													12

VESSEL Cape Flatter	y 2016		CRUISE ID	CF16			PROJECT &	LEG (i	f needed)		CTD FileNar	me (None if data	a is live feed)	
CTD consec CAST #		LATITUDE		LONGITUD	DE	GMT DATE	(note	if not)	GMT	Time :	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	М	IN 🕾	DAY	МО	YR	HR	MIN	(°C)	(m)	- 50	
20	69	61.10	N 166	58.	79 N	03	09	1 4	01:5	54	14.35	25	20	
Sensor IDS (i	nitially & s	wap-outs)		Weather	**									CTD MAX. DEPTH =
SBE type and S/N						18		+	E.		19			05
PRESS S/N		868		COMME				that ma	ay affect me	easurer	nents or aid pı	ocessing		
TEMP 1 &2 SNs					(2) T	end Ili	8				4			
COND 182 S/Ns					_									
FLUOR S/N					Sal		29.	34						
02 (SBE43) S/N	_													
Transmiss S/N														
PAR S/N					Scan	len	oth e	rrors		- 72 to				
02 SBE42S/N	-									-	_		-	
	DEPTH	Rosette Notes	Н	lydro Team		GFF	>10 Larg	ne l		>10 d	up vol Phyto		Comments	or other Nisk
Nisk #	DESIRED		SALT Bu	NuLBtl		vol	Vol		GFF dup vol	(larg		Lipids	sampl	
1	0			73		250								1
2	lυ			79		J	250			1		1		2
3	20			75		250	250		_		- 6			3
4					lt l	-								4
5		AND THE PARTY OF T												5
6														6
7	i i													7
8								:						8
9		:				à								9
10				15										10
11											*****			11
12						20			13 th 10		31			12

vessel Cape Fl	lattery 2016		CRUISE	CF16			PROJECT & LEG NBS leg	G (if needed)		CTD FileNar	ne (None if dat	ta is live feed)	
CTD co		LATITUDE	22	LONGITUDE		GMT DATE	(note if no	ot) GMT	Time Surf	ace Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	MO Y	R HR	MIN	(°C)	(m)		
9	.1 62	30.04	N 167	57.9	w 16	06	09 1	0:35	9.	2	2P	2/	
Sensor	IDS (initially &	swap-outs)		Weather:		E 1967			= 2				CTD MAX. DEPTH
SBE type and	S/N			n .	16						1/4	Ì	21
PRESS S/N				COMMENT	T: Difficult	condition	s, factors that	may affect me	easuremen	ts or aid pr	ocessing		THE STATE OF THE S
TEMP 1 &2 SA	Ns		-	1>	42	513						7.50	
COND 182 S/	Nts												
LUORI S/N				>	al	31.	5						
02 (SBE43) S/	S/N	X	4									*	
Fransmiss S/N	v												
										180 224			
PAR S/N		070H04_018								_			1
PAR S/N		Rosette Notes		Hvdro Team		CEE.	101200		>10 dup v	ol Phyto		Comments of	other Lau
PAR S/N		Rosette Notes	SALT Bil	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup v (large)	ol Phyto preserve	Lipids	Comments or samples	
PAR S/N D2 SBE42S/N	DEPTH	Rosette Notes	SALT Bil					GFF dup vol			Lipids		
PAR S/N D2 SBE42S/N Nisk #	DEPTH DESIRED	Rosette Notes	SALT Bil	Nur.Bil 7-6		vol		GFF dup vol			Lipids		1
PAR S/N D2 SBE42S/N Nisk #	DEPTH DESIRED	Rosette Notes	SALT Bil	Nurl.B81 7-6 7-7		vol	Vol	GFF dup vol			Lipids		#
PAR S/N 02 SBE42S/N Nisk # 1 2	DEPTH DESIRED	Rosette Notes		Nur.Bil 7-6		vol 2₹0	vol 2 50	GFF dup vol			Lipids		1 2
PAR S/N 12 SBE42S/N Nisk # -	DEPTH DESIRED	Rosette Notes		Nurl.B81 7-6 7-7		vol 2₹0	vol 2 50	GFF dup vol			Lipids		1 2 3
PAR S/N 12 SBE42S/N Nisk # - 1	DEPTH DESIRED	Rosette Notes		Nurl.B81 7-6 7-7		vol 2₹0	vol 2 50	GFF dup vol			Lipids		1 2 3
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED	Rosette Notes		Nurl.B81 7-6 7-7		vol 2₹0	vol 2 50	GFF dup vol			Lipids		1 2 3 4 5
Nisk# - 1 2 3 4 5 6	DEPTH DESIRED	Rosette Notes		Nurl.B81 7-6 7-7		vol 2₹0	vol 2 50	GFF dup vol			Lipids		# 1 2 3 4 5 6
Nisk # - 1 2 3 4 5 6 7	DEPTH DESIRED	Rosette Notes		Nurl.B81 7-6 7-7		vol 2₹0	vol 2 50	GFF dup vol			Lipids		1 2 3 4 5 6 7
PAR S/N D2 SBE42S/N Nisk #	DEPTH DESIRED	Rosette Notes		Nurl.B81 7-6 7-7		vol 2₹0	vol 2 50	GFF dup vol			Lipids		# # 1 2 3 3 4 5 6 7 8
1 2 3 4 5 6 7 8	DEPTH DESIRED	Rosette Notes		Nurl.B81 7-6 7-7		vol 2₹0	vol 2 50	GFF dup vol			Lipids		# # 1 2 3 3 4 5 6 7 8 9

A ...

VESSEL Cape Fla	attery 2016			CRUISE I	T 16				PROJECT & NBS leg				СТ	'D FileNar	ne (None if dat	a is live feed)		
CTD co CAST		LA	TITUDE		LONGITU	DE		GMT DATE	(note	if not)	GMT	Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	\dashv	MIN	DEG		MIN		DAY	МО	YR	HR	MIN		C)	(m)			
2.	2 62	_	29.96	N 168	<u> </u>	7,25	w	07	09	1 4	22:	34	۱ کا	85	25			
Sensor I	IDS (initially &	k swa	p-outs)		Weathe	ır:											CTD MAX. D	EPTH =
SBE type and S	VN															•	19	
PRESS S/N	_				COMME	NT: Diffi			s, factors			measur	ements	or aid p	rocessing			
TEMP 1 82 SNs	_	Ī				3+m		tem	ρ	4.	}							
COND 182 S/N	s _																	
FLUOR S/N	_	_																
O2 (SBE43) S/N Transmiss S/N	-					. 1		- W	<u></u>								32.3	
PAR S/N	-				7	u/		50	13									
02 SBE42S/N																		
	DEPTH	R	losette Notes		Hydro Team			GFF	>10 Lar	ne l		>10	dup vol	Phyto		Comments	or other	Nisk
Nisk#	DESIRED			SALT Btl	Nut.Btl			vol	Vol	, (GFF dup vo	ы		preserve	Lipids	samp		#
1	0	T			79	I.		250				i					•	1
2	10				80	*********		J	350									2
3	20				21			250	25	,								3
4																		4
5								İ										5

VESSEL Cape Flat	tery 2016	_ =	CRUISE ID	CF 16			PROJECT & LEG	(if neede	d)	C		ne (None if dat 16 <i>cH の</i> とう		
CTD cons		LATITUDE		LONGITUDE		GMT DATE	(note if n	ot) GMT	Ti	ime Surfa	ce Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/I
	DEG	MIN	DEG	MIN		DAY	MO '	R HR	Mi	N	(°C)	(m)	1 1	
23	62	59.42	N 166	59.57	w	08	091	6x 15	: 11	10,0	7	21	24	
Sensor ID	S (initially & s	wap-outs)		Weather:			Y	F			•			CTD MAX. DEP1
SBE type and S/N														15
PRESS S/N				COMMENT: Di				may affec	t mea	surement	s or aid pr	ocessing		•
TEMP 1 &2 SNs			8	Salt	-	291 0						2		
COND 1&2 S/Ns														
FLUOR S/N				_										
02 (SBE43) S/N				Btn	ton	712	3.67	- 2						
Transmiss S/N	_						Cust	Δ1 -			_			
PAR S/N O2 SBE42S/N				0105	(7-1	C-+ 5+-	E43/ .	1	Mh.	(
							(431	17.Y.	Tuc			The same		E 0
	DEPTH	Rosette Notes	H	lydro Team									Comments	or other
Nisk#	DEPTH DESIRED	Rosette Notes	SALT Bu			GFF vol	>10 Large Vol	GFF dup		>10 dup vo		Lipids	Comments	
		Rosette Notes		lydro Team		GFF	>10 Large			>10 dup vo	Phyto	Lipids		les
Nisk#	DESIRED	Rosette Notes		lydro Team	******	GFF vol	>10 Large			>10 dup vo	Phyto	Lipids	samp	les
Nisk # 1 2	DESIRED O	Rosette Notes	SALT Bil	lydro Team Nut.Bit 87	***************************************	GFF vol	>10 Large Vol			>10 dup vo	Phyto	Lipids	samp	les
Nisk#	DESIRED	Rosette Notes	SALT Bil	lydro Team Nut.Bit	•••••	GFF vol	>10 Large Vol			>10 dup vo	Phyto	Lipids	samp	les
Nisk# 1 2 3	DESIRED O	Rosette Notes	SALT Bil	lydro Team Nut.Bit 87	•••••	GFF vol	>10 Large Vol			>10 dup vo	Phyto	Lipids	samp	les
Nisk#	DESIRED O	Rosette Notes	SALT Bil	lydro Team Nut.Bit 87	•••••	GFF vol	>10 Large Vol			>10 dup vo	Phyto	Lipids	samp	

VESSEL.	attery 2016		CRUISE ID	CF16		PROJECT & LEG	G (if needed)		CTD FileNan	ne (None if data	a is live feed)		
CTD co	onsec	LATITUDE		LONGITUDE	GMT DATE	(note if no	ot) GMT	Time S	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN NAME	
	DEG	MIN	DEG	MIN	DAY	MO N	r HR	MIN	(°C)	(m)			
24	67	59,42	N 166	59.57	w 08	091	均 15:	11	12.1	71	25	<u> </u>	
F	IDS (initially & s			Weather:								CTD MAX. DE	EPTH =
SBE type and S	S/N											5	
PRESS S/N	_			COMMENT: Diffi					nents or aid pr	ocessing			
TEMP 1 &2 SN	<u> </u>			[]	m t	emp -	9,5	7					-
COND 182 5/N	is			_	1	2.1							
FLUOR S/N					ــــــــــــــــــــــــــــــــــــــ	21.	0			_	-		
02 (SBE43) S/I	N			_								-102	-
Transmiss S/N	-			_				-	W =				
PAR S/N 02 SBE42S/N				10.	ngth ev	rors							
	-			SC47 10									
Nisk#	DEPTH	Rosette Notes		Hydro Team	GFF		GFF dup vol		up vol Phyto	Lipids	Comments		Nisk
	DESIRED		SALT Bil	Nut.Bti	vol	Val		(larg	preserve		samp	les	#
1	O			35	250)							1
2	16			86	1	250							2
-3	Birn			87	750	250						ŀ	3
4													4
5													5
				I I									
6							-						6
													7
7													
7													7
7 8 9												****************	7
7 8 9													7 8 9
7 8 9													7 8 9

/ESSEL Cape Flatte	ry 2016		CRUISE ID	CF16			PROJECT & LEC	(if needed	1)	С	TD FileNam	ne (None if dat F 16 Ctd	a is live feed)		
CTD consec	:	LATITUDE		LONGITUDE		GMT DATE	(note if no	ot) GMT	Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	DEG	MIN		DAY	MO N	'R HR	MIN	-	°C)	(m)			
25	63	30.07	N 165	57.68	? w	9	091	1 Ol	39	12,	5	CS	26	- 25	
Sensor IDS	(initially & s	wap-outs)		Weather:	Fair	~	4.0						+1	CTD MAX. D	EPTH =
BE type and S/N									54				15		
RESS S/N				COMMENT:	Difficult		s, factors tha	may affec	t measu	rements	or aid pr	ocessing			
EMP 1 &2 SNs	_					8									
OND 182 S/Ns	_														
LUOR S/N				9	d]		22.6								
2 (SBE43) S/N	_			_											
ransmiss S/N	_			- 2					11.						
AR S/N	-											1			
2 SBE42S/N	e 10112								_						
Nisk#	DEPTH	Rosette Notes		łydro Team		GFF	>10 Large	GFF dup	VOI I	O dup vol	_	Lipids	Comments		Nisl
10111	DESIRED		SALT BU	Nut.Btl		vol	Vol		(large)	preserve		samp	oles	#
1	0			P7		250									1
2	f0		+64	38		J	520								2
3	18		14	88		ठठठ	250								3
4															4
5															5
J															

vessel Cape Flatt	erv 2016		CRUISE IE	CPK			PROJECT & L	EG (if	needed)		CTD FileNa	me (None if da	ta is live feed)		
CTD conse	ес	LATITUDE		LONGITUE	DE	GMT DATE	(note if				rface Temp	BOTTOM DEPTH	STATION NUMBER	STI	
7 (DEG	MIN OU	DEG	 	IIN	DAY	MO	YR		MIN	(°C)	(m)	1 7 7	-	
26	64	00,84	N 165	58.8	4	w 9	09	1-4	15:39	1	1.1	17	27	 	_
Sensor IDS	6 (initially & s	wap-outs)		Weather	-									CTD MAX. D	EPTH
SBE type and S/N														63	
PRESS S/N			COMME	NT: Difficu	ılt conditio	ns, factors th	at ma	y affect m	easurem	ents or aid p	rocessing				
TEMP 1 82 SNs COND 182 S/Ns	_			D	L. 1	do 3	7 1								
FLUOR S/N	*****			- 8	Tn +	emp	7.1				21 (0.55			53 U 100	
02 (SBE43) S/N	_						56							9 8119	
Transmiss S/N PAR S/N	=			Sc	1/+	26	4.6								
02 SBE42S/N							40.0				_				
Nisk#	DEPTH	Rosette Notes		lydro Team		GFF		-	SFF dup vol	>10 dup	vol Phyto	Lipids	Comments		Ni
NISK #	DESIRED		SALT Btl	Nut.Btl		lov	Vol		SEF GOD VOI	(large) preserve	Брюз	sampl	es	#
1	0		E	90		250									1
2	(a			91		250	250								2
3				1											3
		-Tr			T			1		-T					

VESSEL Cape Fla	attery 2016	_	CRUISE ID	<u>(</u> F			ROJECT & LEG BS leg	i (if need	ded)			ne (None if data Flictd o Z		1
CTD co CAST	I	LATITUDE		LONGITUDE	GM DA	ATE	(note if no	ot) GMT	· т	ime Surfa	ice Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/I
	DEG	MIN	DEG	MIN		DAY		/R HF	R MI	N	(°C)	(m)		ļ
27	7 64	00.08	N 166	58,7	6 w	٩	091	4 2	17.21	8.	14	29	28	<u> </u>
Sensor	IDS (initially & s	wap-outs)		Weather:										CTD MAX. DEPT
SBE type and S	ZN											,		25
PRESS S/N				COMMENT: [Difficult cor	nditions,	factors that	may aff	ect mea	surement	s or aid pr	ocessing	,	
TEMP, 1 &2 SNs	s			<u></u>										
COND 182 S/N	19			ISty	M	3،_ऽ	57							
FLUOR S/N						_	1-1-1-							
O2 (SBE43) S/N	-				4	- 10								
Transmiss S/N				Su	ļ	85	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			*				
				II .										
PARIS/N				-										
PARIS/N 02 SBE42S/N														
O2 SBE42S/N	DEPTH	Rosette Notes	Н	ydro Team		GFF	>10 Large	ann d		>10 dup vo	I Phyto	89.7	Comments	or other
	DEPTH DESIRED	Rosette Notes	H SALT Bil	lydro Team			>10 Large Vol	GFF du	ıp vol	>10 dup vo	Phyto preserve	Lipids	Comments of sample	
O2 SBE42S/N		Rosette Notes	1.0	Nut.Bil				GFF du	up vol			Lipids		
02 SBE42S/N	DESIRED	Rosette Notes	SALT Bil	Nut.8tl 9 7 7 9 3		vol		GFF du	up vol			Lipids		
02 SBE42S/N Nisk #	DESIRED	Rosette Notes	SALT BU	Nut.Bil		vol 250	Vol	GFF di	up vol			Lipids		es
02 SBE42S/N Nisk #	DESIRED ()	Rosette Notes	SALT BU	Nut.8tl 9 7 7 9 3		vol 250	Vol	GFF dı	up vol			Lipids		es
02 SBE42S/N Nisk #	DESIRED O 10 26	Rosette Notes	SALT BU	Nut.Btl		vol 250	Vol 250	GFF da	up vol			Lipids		25
02 SBE42S/N Nisk # 1 2 34	DESIRED O 10 26	Rosette Notes	SALT BU	Nut.Btl		vol 250	Vol 250	GFF di	up vol			Lipids		25
02 SBE42S/N Nisk # — 1 2 3 4 5	DESIRED O 10 26	Rosette Notes	SALT BU	Nut.Btl		vol 250	Vol 250	GFF dı	up voi			Lipids		25
02 SBE42S/N Nisk # — 1 2 3 4 5	DESIRED O 10 26	Rosette Notes	SALT BU	Nut.Btl		vol 250	Vol 250	GFF di	up voi			Lipids		
02 SBE42S/N Nisk # 1	DESIRED O 10 26	Rosatte Notes	SALT BU	Nut.Btl		vol 250	Vol 250	GFF di	up vol			Lipids		
02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8	DESIRED O 10 26	Rosette Notes	SALT BU	Nut.Btl		vol 250	Vol 250	GFF di	up vol			Lipids		
02 SBE42S/N Nisk # — 1 2 3 4 5 6 7 8 9	DESIRED O 10 26	Rosette Notes	SALT BU	Nut.Btl		vol 250	Vol 250	GFF di	up voi			Lipids		

vessel Cape Fla	attery 2016		CRUISE I	D			PROJECT & LEG	(if needed)		CTD FileNar	ne (None if dat	a is live feed)	·
CTD coi	- 1	LATITUDE	===	LONGITUDE		GMT DATE	(note if no	ot) GMT	Time Sur	face Temp	BOTTOM DEPTH		STN. ME/ID
	DEG	MIN	DEG	MIN		DAY			MIN	(°C)	(m)		-
28	3 63	30,75	N 166	59.54	w	10	091	6 02:1	3 9	. 3	55	72)
Sensor II	IDS (initially & s	wap-outs)		Weather:						12		СТЕ МА	C DEPTH =
SBE type and SA							7			0		Į Į	9
PRESS S/N				COMMENT:	Difficult	condition	s, factors that	may affect m	easureme	nts or aid p	rocessing		
TEMP 1 &2 SNs					197								
COND 182 S/Ns	s		13:	tn	ten	P	518						
FLUOR S/N		N/G											
02 (SBE43) S/N							55-15-15						
Fransmiss S/N	_			30	1/	2	28.9						
PAR S/N				100	•		260 = =	17.					
02 SBE42S/N		4		_				17					
	DEPTH	Rosette Notes	T	Hydro Team	_	GFF	>10 Large		>10 dup	vol Phyto	III.	Comments or other	Nisk
Nisk#	DESIRED		SALT Btl	Nut.Btl		vol	Vol	GFF dup vol	(large)		Lipids	samples	#
1	0			96		250					=	Brut	1
2	,6			97		7	250						2
3	20			98		250	1 250	11	19				3
4	<i>US</i>										ā -	***************************************	4
								<u> </u>					5
5													
6									1	01,			6
7						ļ							7
<u> </u>						!							8
8													
		i Eq.		-			Ē* (S		.]				9
8 9									•				9
8 9 10	2 0								•				10
8 9	6 6 13												

VESSEL Cape I	- Flattery 20	016		CRUISE ID	CF14			PROJECT & NBS leg			Ti-	CTD (C	FileNam	ne (None if dat 929	a is live feed)		
	consec ST #		LATITUDE		LONGITUDE		GMT DATE	(note i	f not)	GMT	Time	Surface 1	Temp	BOTTOM DEPTH	STATION NUMBER	STI NAMI	
	DE	G	MIN	DEG	Mil	V	DAY	МО	YR	HR	MIN	(°C)	1	(m <u>)</u>			
Z	9 (63	30.35	N 167	59.8	9 w	10	09	1 4	15.5	76	9.56		29	30		
Senso	or IDS (initia	illy & st	wap-outs)		Weather:	•		- 10 ° 12	id"	0				·		CTD MAX. D	EPTH =
SBE type an											- 24					24	
PRESS S/N					COMMEN	T: Difficult	condition	s, factors t	hat ma	ay affect n	neasure	ments o	r aid pr	ocessing			
TEMP 1 82	SNs					20											
COND 1&2					Bł	m ter	np -		1.4			1.0.00					
FLUOR S/N)% <u> </u>							174				_				18
02 (SBE43) Transmiss S		- 3			1 .			7 7 11								-	- 5
PAR S/N	N.M.	-	100		<u>S</u>	<i>/</i> [20.7				5.5					
02 SBE42S	/N				10	410	2 9	t	201	m							
	DEF	РТН	Rosette Notes	Hy	/dro Team		GFF	>10 Larg		-3-1	>10	dup vol Ph	ryto	27.53	Comments	or other	Nisk
Nisk #	DES	SIRED		SALT BU	Nut.Btl		vol	Vol		GFF dup vol			eserve	Lipids	samp		#
1		0			99		250		Ì			İ		Ì			ı
2	10	0	-	16	(0)		1	250		<u> </u>	20			T			2
3	20	2			IOI	3 7	V	250	-								3
4	BtMC(24)		16	[02		250	250		4	■ 81			=0.4			4
5					- 8	4				- 50		- Si		600.			5

11_

VESSEL Cape Fla	attery 201	5			CRUISE ID					PROJECT & L NBS leg	EG (if	needed)		CTD FileNar	ne (None if dat	a is live feed)		
CTD co CAST		L	ATITUDE			LONGITUD	Ē		GMT DATE	(note if	not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	ST	
	DEG		MIN		DEG	М	N		DAY	МО	YR	HR	MIN	(°C)	(m)			
30	6	/	00,28	N	167	59.	97	w	10	09	1 8	70: 7	18	9.3	32	3/		
Sensor I	IDS (initially	& swa	ap-outs)		-	Weather:											CTD MAX. D	DEPTH =
SBE type and S/	S/N																30	
RESS S/N EMP 1 82 SNs						COMMEN	IT: Diffic	ult c	condition	s, factors th	at ma	y affect m	easure	ments or aid p	rocessing			
TEMP 1 &2 SNs																		
OND 182 SAIs							oci //		29.	45								
LUOR SIN						4	•											
02 (SBE43) S/N	V						13+n=		3.8	7								
									_									
Transmiss S/N																		
Transmiss S/N PAR S/N					7					- I alt		.,						
PAR S/N							Scan		len	gts e	119	<u>n</u> –						
w.r. /			Rosette Notes		H		Scun		•				210	dun val Phyto		Comments	or other	1
PAR S/N	DEPTH DESIRE		Rosette Notes		H SALT Bil	lydro Team	Scun		GFF	>10 Large Vol		GFF dup vol		dup vol Phyto rge) preserve	Lipids	Comments of sample		Nisk #
PAR S/N 02 SBE42S/N	DEPTI		Rosette Notes			lydro Team	Scan		GFF	>10 Large					Lipids		es	
PAR S/N O2 SBE42S/N Nisk #	DEPTI- DESIRE		Rosette Notes			lydro Team Nut.Btl	Scan		GFF vol	>10 Large					Lipids	sampl	es	1
PAR S/N O2 SBE42S/N Nisk #	DEPTH DESIRE		Rosette Notes			lydro Team Nut.Btl	Scun		GFF vol	>10 Large Vol					Lipīds	sampl	es	#
PAR S/N O2 SBE42S/N Nisk #	DEPTH DESIRE O 10		Rosette Notes			Nut.Btl	Scun		GFF vol	>10 Large Vol					Lipids	sampl	es	1 2
PAR S/N O2 SBE42S/N Nisk #	DEPTH DESIRE		Rosette Notes			Nut.Btl 103 104 105	Scun		GFF vol	>10 Large Vol					Lipids	sampl	es	1 2 3
PAR S/N O2 SBE42S/N Nisk #	DEPTH DESIRE O 10		Rosette Notes			Nut.Btl 103 104 105	Scun		GFF vol	>10 Large Vol					Lipids	sampl	es	1 2 3 4
PAR S/N O2 SBE42S/N Nisk # 1 2 3 4 5	DEPTH DESIRE O 10		Rosette Notes			Nut.Btl 103 104 105	Scun		GFF vol	>10 Large Vol					Lipids	sampl	es	# 1 2 3 4 5
PAR S/N O2 SBE42S/N Nisk # 1 2 3 4 5	DEPTH DESIRE O 10		Rosette Notes			Nut.Btl 103 104 105	Scun		GFF vol	>10 Large Vol					Lipids	sampl	es	# 1 2 3 4 5 6
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7	DEPTH DESIRE O 10		Rosette Notes			Nut.Btl 103 104 105	Scun		GFF vol	>10 Large Vol					Lipids	sampl	es	# 1 2 3 4 5 6 7
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8	DEPTH DESIRE O 10		Rosette Notes			Nut.Btl 103 104 105	Scun		GFF vol	>10 Large Vol					Lipids	sampl	es	# 1 2 3 4 5 6 7 8
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9	DEPTH DESIRE O 10		Rosette Notes			Nut.Btl 103 104 105	Scun		GFF vol	>10 Large Vol					Lipids	sampl	es	# 1 2 3 4 5 6 7 8 9

VESSEL Cape F	lattery	2016	_		CRUISE ID	CF16		. -	PROJECT & UNBS leg	.EG (i	if needed)		CTD Fi	ileNam	e (None if dat	a is live feed) <i>Oろ)</i>		
CTD c			LATITUDE	_		LONGITUDE		GMT DATE	(note il		GMT	Time		emp_	BOTTOM DEPTH	STATION NUMBER	ST NAM	
		DEG	MIN	\bot	DEG	II MIN	_	DAY	МО	YR	HR	MIN	(°C)		(m)		-	
31		64	01.15	N	168	57.	78 W	11	09	1 6	01:	22	7.7		30	3.5	32	
Sensor	r IDS (ini	tially & st	wap-outs)			Weather:											CTD MAX. D	EPTH =
SBE type and	I S/N																52	
PRESS SAN		- 11				COMMEN.	T: Difficult	condition	ns, factors ti	at ma	ay affect r	neasur	ements or a	aid pro	ocessing			-17-45
TEMP 1 &2 S	illis																	
COND 142 S	/Ns						Btn		6.5	•			V2 - 77					
FLUOR S/N		: T—														-		7.5
02 (S8E43) S				-	-		Sul		31.5									
Transmiss S/1 PAR S/N	N	- 11		+										- 1				
O2 SBE42SA	vi .						Λ0	Sali	1.44	1311	# 16	7						
								1	- 1			C.,						\blacksquare
Nisk# -		DEPTH	Rosette Notes		H	ydro Team		GFF vol	>10 Large		GFF dup vo		dup vol Phyt arge) pres		Lipids	Comments		Nisk #
		DESIRED			SALT BU	Nut.Btl		VOI	VOI			,,	arge) pres	CIVE		Sam	ж	
1		٥				107		250										1
2	(0			18	108		1	250									2
3	7	O.				109		1	250									3
4	Z	5				110		250	250									4
5	,								- 19									5
6			-		****		*	=										6
7												_						7
8				0				 							†			8
9										\top					<u> </u>			9

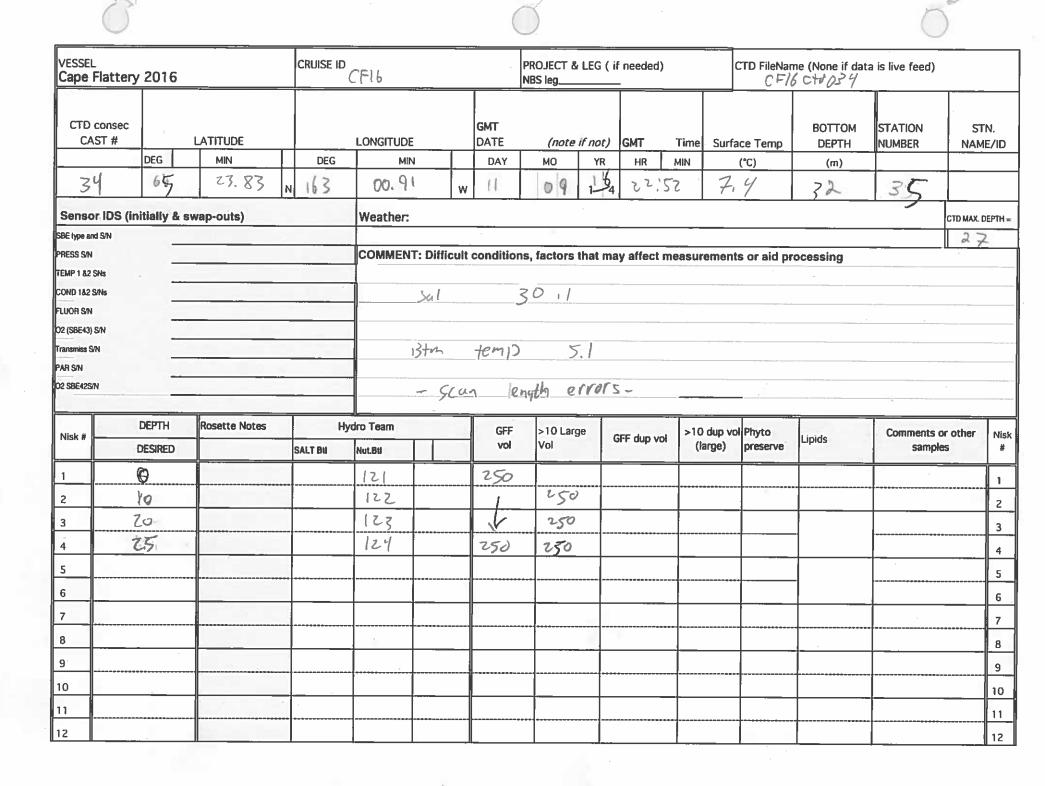
vessel Cape Flattery	2016		CRUISE I	O CF	Eq.		PROJECT & NBS leg	LEG (i	f needed) -		CTD FileNa	me (None if dat +v 03)_	ta is live feed)		
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE	(note	if not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STI	
	DEG	MIN	DEG	MIN	53	DAY	МО	YR	HR	MIN	(°C)	(m)			
32	64	N 169	06.24	w	11	09	16	14:0	7	7.38	41.	33			
Sensor IDS (in	nitially & sv	vap-outs)	Weather:										CTD MAX. DI	EPTH =	
SBE type and S/N	-70,								-					Jţ	
PRESS S/N				COMMENT: D	ifficult	conditio	ns, factors	that ma	ıy affect ı	measure	nents or aid p	rocessing			
TEMP 1 &2 SNs			165	130	41										
COND 182 S/Ns								1400000							
PLUOR S/N				13	~	templ	-1,82								
02 (SBE43) S/N	- 10 <u></u>														
Transmiss S/N				90	1+ -	-	31,2	340							
PAR S/N				S	urfice										
02 SBE42S/N			<u> </u>							12		- v 1100			
Allala M	DEPTH	Rosette Notes		Hydro Team		GFF	>10 Lar	ge ,	GFF dup vo	, >10 d	up vol Phyto	Linide	Comments	or other	Nisk
Nisk#	DESIRED		SALT Bil	Nut.Btl		vol	Vol		orr cup vo	(lan		Lipids	samp	les	#
1	D			1170		250)								

Nisk # DEPTH		Rosette Notes	1	lydro Team		GFF	>10 Large	GFF dup vol	>10 dup voi (large)	Phyto	Lipids	Comments or other	Nisk
NISK #	DESIRED	" = ===================================	SALT Bil	Nut.Btl		vol	Vol	Grr Gup VOI	(large)	preserve	Lipius	samples	#
1	D	11 8		1112		250							1
2	lo			172		250	250	• • • • • • • • • • • • • • • • • • • •	4				2
3	20					250	250			56			3
4	7:0			43						il	2600mb		4
5	30		li u	114		250	250						5
6	35			115		250	o ³³						6
7												2	7
8		_		3						7 (3)			8
9					: 5							-	9
10										50			10
11							ia III						11
12									53				12

VESSEL Cape Flatte	ery 2016		RUISE ID CF	PROJECT & LEG (if needed) NBS leg							CTD FileName (None if data is live feed) CF C + U 033					
CTD conse CAST #	LATITUDE			LONG						BOTTOM DEPTH	STATION NUMBER	STI NAME				
	DEG	MIN		DEG	MIN		DAY	МО	YR	HR	MIN	(°C)	(m)	12.5		
33	64	5 P. 10	N	169 01	2.10	w	(i) P	09	16	16:2	26	4.67	42	34		
Sensor IDS	(initially & s	wap-outs)		Wea	ther:										CTD MAX. DI	EPTH:
8E type and S/N															35	
RESS S/N				COM				is, factors t	hat ma	y affect n	neasurer	nents or aid p	rocessing			
EMP 1 &2 SNs					DB0-		#Z									
OND 182 S/Ns					Btm		temis	-	-	2.11						
LUOR S/N																
02 (SBE43) S/N																
ransmiss S/N				-	32.1									fir		
AR S/N																
)2 SBE42S/N																
	DEPTH	Rosette Notes		Hydro Tea	m		GFF	>10 Larg	е ,	see don only	>10 d	up vol Phyto	1 Table	Comments of	or other	Nis
Nisk#	DESIRED		SAL	LT Bil Nut.Bil			vol	Vol		SFF dup vol	(lan		Lipids	sample		#
1	0			- 11	6		250									ī
	10			1/ 1	1		11	750					T			

£2

Nisk#	DEPTH	Rosette Notes	ŀ	lydro Team		GFF	>10 Large	GFF dup vol	>10 dup vol (large)	Phyto	Lipids	Comments or other	Nisk
NISK #	DESIRED	SALT Bil Nut.Bil		vol	Vol	GIT dup voi	(large)	preserve	Lipius	samples	#		
1	0			116		250							ī
2	10			117		11	250			2-			2
3	20			118			250			9			3
4	30			119		V	,						4
5	35		189	120		250							5
6													6
7			1										7
8													8
9	<u> </u>												9
10			(30000-30000)		<u> </u>								10
11													11
12													12



vessel Cape Flat	ttery 2016		CRUISE ID	cFl6			PROJECT & LEG NBS leg	i (if needed)		CTD FileNar CFル	ne (None if dat	a is live feed)	
CTD con	1	LATITUDE		LONGITUDE	-	GMT DATE	(note if no	ot) GMT	Time S	urface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	MO Y	R HR	MIN	(°C)	(m)		
35	65	Ø1.81	N 167	35 88	w	2.1	091	4 04:0	75	7. P6	79	36	
Sensor IC	OS (initially & s	wap-outs)		Weather:								сто	MAX. DEPTH =
SBE type and S/N													26.
TEMP 1 &2 SNs COND 1&2 S/Ns FLUOR S/N O2 (SBE43) S/N Transmiss S/N					stn stn	30 ten12	ps.	3.26 8,66					
PAR S/N 02 S8E42S/N Nisk #	DEPTH	Rosette Notes		lydro Team		GFF	>10 Large	GFF dup vol		o vol Phyto	Lipids	Comments or of	111011
-	DESIRED	Rosette Notes	SALT Bit	Nut.Bti		vol	>10 Large Vol	GFF dup vol	>10 du (larg		Lipids	samples	her Nisk #
02 SBE42S/N	DESIRED	Rosette Notes		Nut.Bti			Vol	GFF dup vol		e) preserve	Lipids		111011
02 S8E42S/N	DESIRED	Rosette Notes		Nut.Bit 125		vol	Vol 250	GFF dup vol			Lipids	samples	#
02 S8E42S/N Nisk #	DESIRED	Rosette Notes	SALT Bil	Nut.Bti		vol	Vol	GFF dup vol		e) preserve	Lipids	samples	1
02 S8E42S/N Nisk #	DESIRED O	Rosette Notes	SALT Bil	Nut.Bit 125		vol	Vol 250	GFF dup vol		e) preserve	Lipids	samples	1 2
02 S8E42S/N Nisk #	DESIRED O LO ZO	Rosette Notes	SALT Bil	Nut.Bts 125 126 127		2.50	Vol 250	GFF dup vol		e) preserve	Lipids	samples	1 2 3
02 S8E42S/N Nisk # 1 2 3 4 5	DESIRED O LO ZO	Rosette Notes	SALT Bil	Nut.Bts 125 126 127		2.50	Vol 250	GFF dup vol		e) preserve	Lipids	samples	1 2 3 4 5
02 S8E42S/N Nisk # 1 2 3 4 5 6	DESIRED O LO ZO	Rosette Notes	SALT Bil	Nut.Bts 125 126 127		2.50	Vol 250	GFF dup vol		e) preserve	Lipids	samples	1 2 3 4 5
02 S8E42S/N Nisk # 1 2 3 4 5 6 7	DESIRED O LO ZO	Rosette Notes	SALT Bil	Nut.Bts 125 126 127		2.50	Vol 250	GFF dup vol		e) preserve	Lipids	samples	# 1 2 3 4 5 6 7
02 S8E42S/N Nisk # 1 2 3 4 5 6 7 8	DESIRED O LO ZO	Rosette Notes	SALT Bil	Nut.Bts 125 126 127		2.50	Vol 250	GFF dup vol		e) preserve	Lipids	samples	1 2 3 4 5 6 7 8
02 S8E42S/N Nisk # 1 2 3 4 5 6 7 8 9	DESIRED O LO ZO	Rosette Notes	SALT Bil	Nut.Bts 125 126 127		2.50	Vol 250	GFF dup vol		e) preserve	Lipids	samples	3 4 5 6 7 8
02 S8E42S/N Nisk # 1 2 3 4 5 6 7 8	DESIRED O LO ZO	Rosette Notes	SALT Bil	Nut.Bts 125 126 127		2.50	Vol 250	GFF dup vol		e) preserve	Lipids	samples	1 2 3 4 5 6 7 8

vessel Cape Flatt	ery 2016	·	CRUISE IE	1			PROJECT & L NBS leg	EG (if	needed)		CTD FileNa	ne (None if data	a is live feed)		
CTD conse		LATITUDE		LONGITUD	E	GMT DATE	(note if	not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN NAME	
	DEG	MIN	DEG	М	N	DAY	МО	YR	HR	MIN	(°C)	(m)			
36			N		w		4 1	1 4					37		
Sensor IDS	6 (initially & s	wap-outs)		Weather										CTD MAX. DE	РТН =
SBE type and S/N											<u> </u>				
PRESS S/N				COMMEN	IT: Difficult	conditio	ns, factors th	at ma	y affect m	easure	ements or aid p	rocessing			
TEMP 1 &2 SNs															
COND 182 S/Ns	_			_											
FLUOR S/N	_			_											
02 (SBE43) S/N															
Transmiss S/N	_														
PAR S/N 02 SBE42S/N				_,	the desired to the second seco										
UZ BOE9ZBIN															_
	PARTY I	Rosette Notes	_	Hydro Team		GFF									
Mint #	DEPTH	Rosette Notes		lydro Team		GFF	>10 Large		SEE dun vol		dup vol Phyto	Linids	Comments		Nisk
Nisk #	DESIRED	Rosette Notes	SALT Bil	lydro Team Nut.Btl		GFF vol	>10 Large Vol	0	SFF dup vol		dup vol erge) Phyto preserve	Lipids	Comments of sample		Nisk #
Nisk#		Rosette Notes				.H	>10 Large Vol	0	SFF dup vol			Lipids			
	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			#
1	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			1
1 2	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			1 2
1 2 3	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			1 2 3
2 3 4	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			1 2 3 4
1 2 3 4 5 5	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			# 1 2 3 4 5
1 2 3 4 5 6	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			# 1 2 3 4 5
1 2 3 4 5 6 7 7	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			# 1 2 3 4 5 6 7
1 2 3 4 5 6 7 8	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			# 1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8 9	DESIRED	Rosette Notes		Nut.Btl		.H	>10 Large Vol		SFF dup vol			Lipids			# 1 2 3 4 5 6 7 8