vessel Northw	est Explorer 20	016	CRUISE ID	NW160	(e		PROJECT & LEG	(if needed)			ne (None if dat			
CTD co		LATITUDE	S: *0;	LONGITUDE		GMT DATE	(note if no	t) GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/II	
	DEG	MIN	DEG	MIN		DAY	MO YE	R HR	MIN	(°C)	(m)			
1	58	13.136	N 135	31.110	w	23/	4061	6 15	14		97	20069	ISA	,
Sensor	IDS (initially & s	wap-outs)		Weather:		8	_		•				CTD MAX. DEPT	TH =
SBE type and 5	S/N												82	
PRESS S/N				COMMENT: D	ifficult	condition	s, factors that	may affect i	neasur	ements or aid pr	ocessing			-
TEMP 1 &2 SN	ls												81	
COND 1&2 S/N	Ns													
FLUOR S/N														
O2 (SBE43) S/I	N													
Transmiss S/N									-		7/11			
PAR S/N														
PAR S/N O2 SBE42S/N						-							****	
O2 SBE42S/N	DEPTH	Rosette Notes	Н	ydro Team		GFF	>10 Large	CEE due vo	>10	dup vol Phyto		Comments	or other	Nisk
	DEPTH DESIRED		Hy SALT BU	ydro Team Nut.Btl		GFF vol	>10 Large Vol	GFF dup vo		dup vol Phyto arge) preserve		Comments samp		Nisk #
O2 SBE42S/N		Rosette Notes				JI		GFF dup vo						
02 SBE42S/N	DESIRED			Nut.Btl		JI		GFF dup vo					les	
02 SBE42S/N	DESIRED 82	82		Nut.8tl 562		250		GFF dup vo					les	1
02 SBE42S/N Nisk #	DESIRED 82 30	42 20		Nut.Btl 562 561		vol		GFF dup vo					les	1 2
02 SBE42S/N Nisk # 2 3 4	DESIRED 82 30	42 20		Nut.Btl 562 561		250		GFF dup vo					les	1 2 3 4
02 SBE42S/N Nisk # 1 2 3 4 5	DESIRED 82 30	42 20		Nut.Btl 562 561		250		GFF dup vo					les	# 1 2 3 4 5
02 SBE42S/N Nisk # 1 2 3 4 5	DESIRED 82 30	42 20		Nut.Btl 562 561		250 250		GFF dup vo					les	# 1 2 3 4 5
02 SBE42S/N Nisk # 1 2 3 4 5	DESIRED 82 30	42 20	SALT BU	Nut.Btl 562 560 560		250 250	Vol	GFF dup vo					les	# 1 2 3 4 5
02 SBE42S/N Nisk # 1 2 3 4 5	DESIRED 82 30 70	42 20	SALT BU	Nut.Btl 562 561	•••••	250 250	Vol	GFF dup vo				samp	les	# 1 2 3 4 5
02 SBE42S/N Nisk #	DESIRED 82 30 20	72 20 20	SALT BU	Nut.BH 562 561 560 559		250 250	Vol	GFF dup vo					les	# 1 2 3 4 5 6
02 SBE42S/N Nisk # 1	DESIRED 82 30 70	82 20 20	SALT BU	Nut.Btl 562 560 560		250 250	Vol	GFF dup vo				samp	les .	# 1 2 3 4 5 6 7
02 SBE42S/N Nisk # 1	DESIRED 82 30 70	10 10	204 204	Nut.BH 562 561 560 559		250 250 250	Vol	GFF dup vo				samp	NA 1	# 1 2 3 4 5 6 7 8

vessel Northw	vest Explorer	2016	CRUISE ID	VWILOOL	0	F P	ROJECT & LEG	G (if needed)			ne (None if dat		
CTD c	consec	LATITUDE		LONGITUDE		GMT DATE	(note if n	ot) GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	MO '	r HR	MIN	(°C)	(m)		
7	- 58	14-265	n 135	29.20	(w	23	AUG 1	617	06		188	20070	ISB
Sensor	r IDS (initially &	swap-outs)		Weather:									CTD MAX. DEPTH
SBE type and	I S/N							<u> </u>					178
PRESS S/N				COMMENT: D	Difficult	conditions	, factors tha	t may affect i	neasure	ments or aid p	ocessing		
TEMP 1 &2 SI	Ns												
COND 182 S/	/Ns												
FLUOR S/N													
02 (SBE43) S	SAN												
	_												
Transmiss S/N	N ==]												
Transmiss S/N PAR S/N	N												-
													- 150
PAR S/N		Rosette Notes	Н	lydro Team	÷1	GFF	>10 Large		, >10 c	Jup vol Phyto		Comments of	or other Ni
PAR S/N	N	Rosette Notes	H SALT BU	lydro Team		GFF vol	>10 Large Vol	GFF dup vo		lup vol Phyto ge) preserve		Comments o	
PAR S/N 02 S8E42S/N	DEPTH	Rosette Notes						GFF dup vo					
PAR S/N 02 S8E42S/N Nisk #	DEPTH DESIRED	17-8		Nut.Btl		vol		GFF dup vo					es #
PAR S/N 02 S8E42S/N Nisk #	DEPTH DESIRED	178		Nul.Btl 567				GFF dup vo					es #
PAR S/N 02 S8E42S/N Nisk #	DEPTH DESIRED 178	17-8		Nul.Btl 567 5766		2 50		GFF dup vo					1 2
PAR S/N 02 S8E42S/N Nisk # - 1 2 3	DEPTH DESIRED 178	178		Nul.Btl 567 5766		2 50		GFF dup vo					1 2 3
PAR S/N 02 S8E42S/N Nisk # - 1	DEPTH DESIRED 178	178		Nul.Btl 567 5766		2 50		GFF dup vo					1 2 3 4
PAR S/N 02 S8E42S/N Nisk # - 1	DEPTH DESIRED 178	178		Nul.Btl 567 5766		2 50		GFF dup vo					1 2 3 4 5
PAR S/N 02 S8E42S/N Nisk # - 1	DEPTH DESIRED 178	178 30 20		Nul.Btl 567 5766		2 50 250		GFF dup vo					1 2 3 4 5 6
PAR S/N 02 S8E42S/N Nisk # - 1 2 3 4 5 6 7	DEPTH DESIRED 178 30 20	178		Nul.Bil 567 566 565		2 50		GFF dup vo		ge) preserve			1 2 3 4 5 6 7 8
PAR S/N 02 S8E42S/N Nisk # - 1	DEPTH DESIRED 178 30 20	178 30 20		Nul.Bil 567 566 565		2 50 250		GFF dup vo		ge) preserve		sample	1 2 3 4 5 6 7 8
PAR S/N 02 S8E42S/N Nisk # - 1	DEPTH DESIRED 178 30 20	178 30 20		NULBH 567 566 565 565 564		250 250 250		GFF dup vo		ge) preserve		sample	1 2 3 4 5 6 7 8 A 9

vessel Northy	vest Explorer 2	016	CRUISE ID	Nwlba) b		PROJECT & LEG	G (if needed)		me (None if dat		2-/	
	consec ST #	LATITUDE MIN	DEG	LONGITUDE		GMT DATE DAY	(note if no	ot) GMT	Time	Surface Temp	BOTTOM DEPTH (m)	STATION NUMBER	STI	
3	58	15-454	N 135	26.9	w 0)	23	AUG 1	619	28		260	20071	IS	
Sensor	iensor IDS (initially & swap-outs)												CTD MAX. D	EPTH =
PRIESS S/N TEMP 1 &2 S COND 1&2 S FLUOR S/N OZ (SBE43) ! Transmiss S/ PAR S/N OZ SBE42S/N	ens		COMMENT:	Difficult	condition	ns, factors that	may affect	measurer	nents or aid p	rocessing				
Nisk#	DEPTH	Rosette Notes	H	ydro Team		GFF	>10 Large	GFF dup v		up vol Phyto		Comments		Nisk
INISK #	DESIRED		SALT Btl	Nut.Btl		vol	Vol		(lar	ge) preserve		sampl	es	#
1	200	200		572										1_
2	30	30		571		250	,			,				2
3	20	21		570		250	,							3
4	***************************************													4
5	W. 742 . 72. 72. 72. 72. 72. 72. 72. 72. 72.					NO. 632 - 680 AM (140)								5
6														6
7							2,000,000,000	200.00000000000000000000000000000000000	00000		t Sugar angura			7
8	0	10	205	569		250				455		LIPID	2	8
			_	_	_									

ePNA

/ESSEL Northwe	est Explorer 2	2016	CRUISE ID	NW160	6		PROJECT & LEG	(if needed)			ne (None if dat <u>(206 2</u> 0		ı
CTD cor		LATITUDE		LONGITUDE		GMT DATE	(note if no	ot) GMT	Time Surf	ace Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/II
	DEG	MIN	DEG	MIN		DAY	мо	R HR	MIN	(°C)	(m)		
4	58	16.184	N 135	23.63	37 W	23	4 U G 1	6 22	18	_	235	20072	IZD
Sensor If	DS (initially &	swap-outs)		Weather:			<u> </u>				٠		CTD MAX. DEPTI
BE type and S/I	N												201
RESS S/N	_	<u> </u>	-	COMMENT	: Difficult	condition	s, factors tha	may affect n	neasuremen	ls or aid pr	ocessing		
EMP 1 82 SNs OND 182 S/Ns					-			<u> </u>					
LUOR SAN	· -												· · · · · · · · · · · · · · · · · · ·
2 (SBE43) S/N	_												
- (_												
ransmiss S/N	_												
ransmiss S/N PAR S/N													
ransmiss S/N PAR S/N													
PAR S/N 22 SBE42S/N	DEPTH	Rosette Notes	ŀ	łydro Team		GFF	>10 Large	GFF dup vol	>10 dup v			Comments o	
PAR S/N 22 SBE42S/N		Rosette Notes	SALT BII	iydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup v (large)	Phyto preserve		Comments o	
ransmiss S/N VAR S/N V2 SBE42S/N NIsk #	DEPTH	Rosette Notes						GFF dup vol					
ransmiss S/N PAR S/N P	DEPTH DESIRED			Nut.Btl				GFF dup vol					s
ransmiss S/N AR S/N 22 SBE42S/N NISk #	DEPTH DESIRED	201		Not.8tl		vol		GFF dup vol					1
ransmiss S/N VAR S/N V2 SBE42S/N NIsk # 1 2 3	DEPTH DESIRED 100	201		Nut.Bti 577 576		250		GFF dup vol					1 2
Fransmiss S/N PAR S/N D2 SBE42S/N Nisk #	DEPTH DESIRED 100	201		Nut.Bti 577 576		250		GFF dup vol					1 2 3
PAR SN PA	DEPTH DESIRED 100	201		Nut.Bti 577 576		250		GFF dup vol					s 1 2 3 3 4 4
ransmiss S/N PAR S/N D2 SBE42S/N NISk # 1 2 3 4	DEPTH DESIRED 100	201		Nut.Bti 577 576		250		GFF dup vol					3
1 2 3 4 5 6 7	DEPTH DESIRED 100	201		Nut.Bti 577 576		250							\$ 1 2 3 4 4 5 6
PAR S/N PAR S/	DEPTH DESIRED 100 30	201 29 20		Nut.Btl 57-7 57-6 57-5		250 250							\$ 1 2 3 4 4 5 5 6 6 7 8 8

VESSEL				CRUISE	NW)	606			PROJECT & L	.EG (if	f needed)		СТ		ne (None if dat		1	
CTD c		L	ATITUDE		LONGITI	UDE		GMT DATE	(note if	not)	GMT	Time S	Surface	е Тетр	BOTTOM DEPTH	STATION NUMBER	STI NAME	
	DEG		MIN	DE		MIN		DAY	мо	YR	HR	MIN	(*	C)	(m)			
(5	7	53.570	N 13	1= 42.	628	w	24	406	1 6	15	12			940	20074	IP!	<u></u>
Sensor	IDS (initially	y & sw	ap-outs)		Weath	er:											CTD MAX. D	EPTH =
BE type and	S/N								s, factors th								20	1
OND 182 S/I LUOR S/N 2 (SBE43) S								-				-84						
AR S/N		н	Rosette Notes		Hydro Team			GFF	>10 l arge			>10 de	llov at	Phyto		Comments	or other	Nist
ransmiss S/N PAR S/N D2 SBE42S/N Nisk #			Rosette Notes	SALT Bti	Hydro Team			GFF vol	>10 Large Vol		GFF dup vol	>10 de		Phyto preserve	Lipids	Comments of sample		Nisi
AR S/N 2 SBE42S/N Nisk #	DEPT		Rosette Notes	SALT BU	Nut.Btl			a contract of the contract of		3	GFF dup vol				Lipids			
AR S/N 12 SBE42S/N Nisk # -	DEPT DESIR				Nut.Btl	Z		a contract of the contract of			GFF dup vol				Lipids			#
AR S/N 2 SBE42S/N Nisk # -	DEPT DESIR		200		Nut.Btl 587	Z		Vol		9	GFF dup vol				Lipids			1
AR S/N 12 SBE42S/N Nisk # -	DEPT DESIR		200		Nut.Btl 587	Z		250			GFF dup vol				Lipids			1 2
AR SN 2 SBE42SN Nisk # - 1 2 3	DEPT DESIR		200		Nut.Btl 587	Z		250			GFF dup vol				Lipids			1 2 3
AR S/N 02 SBE42S/N	DEPT DESIR		200		Nut.Btl 587	Z		250			GFF dup vol				Lipids			1 2 3 4
1 2 3 4 5 6	DEPT DESIR		200		Nut.Btl 587	Z		250			GFF dup vol				Lipids			# 1 2 3 4 5
1 2 3 4 5 5	DEPT DESIR		200		Nut.Btl 587	7.		250			GFF dup vol				Lipids			# 1 2 3 4 5
2 S8E42S/N Nisk # - 1	DESIR Zoo 30		200 30 20	200	Nut.Btl 587	7.		250 250			GFF dup vol				Lipids		es	# 1 2 3 4 5 6 7
1 2 3 4 5 6 7	DESIR Zoo 30 10		200	200	Nut.Btl 587	7		250 250	Vol		GFF dup vol				Lipids	sample	es	# 1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8 9 9	DEPT DESIR Zoo 30 LO		200	200	Nul.Btl 587 580 580	7		250 250 250	Vol		GFF dup vol				Lipids	sample	es	# 1 2 3 4 5 6 7 8 9

VESSEL	NWAK	18m	CRUISE ID	NW16	206	2 N	ROJECT & LEG BS leg	i (if needed)			ne (None if dat J / 6 0 6 7		
CTD co		LATITUDE		LONGITUDE		GMT DATE	(note if no	ot) GMT	Time :	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	MO Y	R HR	MIN	(°C)	(m)		
7	58	05, 342	N 137	26,899	8 w	24 A	U 6 1	618	15		126	20075	-PC
Sensor	IDS (initially &	swap-outs)		Weather:								СТЕ	MAX. DEPTH =
SBE type and S	S/N												117
PRESS S/N				COMMENT: D	Difficult	conditions	, factors that	may affect r	neasurer	nents or aid p	rocessing		
EMP 1 &2 SN	s												
COND 182 S/N	ks												
ŁUOR S/N													
)2 (SBE43) S/I	N												
				M .									
Transmiss S/N	_												
					-1-0								
Transmiss S/N PAR S/N 02 SBE42S/N							nud "Plandfold the "Bill" y						
PAR S/N	,	- Name		Luke Trans									.
PAR S/N	DEPTH	Rosette Notes		lydro Team		GFF vol	>10 Large Vol	GFF dup vo	>10 d	up vol Phyto preserve	Lipids	Comments or or samples	ther Nisk
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED		SALT BU	Nut.Btl				GFF dup vo			Lipids		#
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED	11(e		Nut.Btl 587		lov		GFF dup vo			Lipids		1
PAR S/N 02 SBE42S/N Nisk # 1 2	DEPTH DESIRED	116		Nul.Btl 587 586		vol 25		GFF dup vo			Lipids		#
PAR S/N D2 SBE42S/N Nisk #	DEPTH DESIRED 30	11(e		Nut.Btl 587		lov		GFF dup vo			Lipids		1 2
PAR S/N 02 SBE42S/N Nisk # -	DEPTH DESIRED 30	116		Nul.Btl 587 586		vol 25		GFF dup vo			Lipids		1 2 3
PAR S/N 02 SBE42S/N Nisk # -	DEPTH DESIRED 30	116		Nul.Btl 587 586		vol 25		GFF dup vo			Lipids		1 2 3 4
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5	DEPTH DESIRED 30	116		Nul.Btl 587 586		vol 25		GFF dup vo			Lipids		1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED 30	116		Nul.Btl 587 586 585		vol 25					Lipids		# 1 2 3 4 5 6
PAR S/N 02 SBE42S/N Nisk # — 1 2 3 4 5 6 7	DEPTH DESIRED 30	11le 30 70		Nul.Btl 587 586		250 250		GFF dup vo			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 30 20	116		Nul.Btl 587 586 585		250 250					Lipids	samples	# 1 2 3 4 5 6 7 8
PAR S/N 02 SBE42S/N Nisk # — 1	DEPTH DESIRED 30 20	10		Nul.Btl 587 586 585		250 250					Lipids	samples	# 1 2 3 4 5 6 7 8 9

CTD cons CAST #	sec					1							
		LATITUDE		LONGITUDE		GMT DATE	(note if n	ot) GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	МО	rr hr	MIN	(°C)	(m)		
8	58	12.682	N 137	16.89	00 w	241	1 UG 1	6 20	.41		119	20076 I	PB
Sensor IDS	S (initially & s	wap-outs)		Weather:								СТВ	MAX. DEPTH =
SBE type and S/N													109
PRESS S/N				COMMENT	: Difficult	conditions	, factors tha	t may affec	t measur	ements or aid pr	ocessing		
EMP 1 &2 SNs													
COND 182 S/Ns									4				
LUOR S/N	1000												
02 (SBE43) S/N													
Fransmiss S/N	_			1									
PAR S/N	- 1			1									
OZ SBE42S/N				1									
OE SUCHECHIN	-			1									
	DEPTH	Rosette Notes	Ну	dro Team		GFF	>10 Large	OFF d	>10	dup vol Phyto	i tatio	Comments or ot	her Nisk
Nisk #	DESIRED		SALT Bil	Nut.Btl		vol	Vol	GFF dup		arge) preserve	Lipids	samples	#
1	109	109		597									1
2	30	30		59(250							2
3	20	2.		510		250					,		3
4						7.4							4
5													5
6	,					-			******				6
7													7
8	(0	l'o	207	581		250							8
0 11												eDNA	9
	10	10		'									
9	0	10		58X		150							10
		2		588		150							10

VESSEL Northw	vest Explore	r 201	6	CF	RUISE ID	VW160	96		ROJECT & LEG	G (if ne	eeded)		CTD FileNan	ne (None if dat ルムルル	a is live feed)	ings.	
CTD c		L	ATITUDE			LONGITUDE		GMT DATE	(note if n	ot) GI	MT	Time Su	rface Temp	BOTTOM DEPTH	STATION NUMBER	STN NAME	
	DEG		MIN		DEG	MIN		DAY		/R	HR I	MIN	(°C)	(m)			
_	5	8	20273	N	137	07.040	w	24.	4 U G 1	6	22 5	8		157	20077	IPA	4
Sensor	IDS (initially	& swa	ap-outs)			Weather:										CTÐ MAX. DEI	PTH =
SBE type and	S/N															147	
PRESS S/N						COMMENT: E	Difficult	condition	s, factors tha	t may a	affect me	easureme	nts or aid pr	ocessing			
TEMP 1 &2 S	Ns																
COND 182 S	Ns																
FLUOR S/N																	
O2 (SBE43) S	VN																
Transmiss S/	N .																
PAR S/N																	
PAR S/N O2 SBE42S/N																	
-			Rosette Notes		Hv	dro Team		CEE	10 Large			>10 due	ual Physics		Comments	ar other	NEL
-	DEPTH DESIRE	_	Rosette Notes	SA	Hyd LT Bill	dro Team		GFF vol	>10 Large Vol	GFF	f dup vol	>10 dup	vol Phyto preserve		Comments o		Nisk #
O2 SBE42S/N	DESIRE	_		SA		Nut.Bil 597				GFF	F dup vol						
02 SBE42S/N	DEPTH	_	Rosette Notes	SA		Nut.Btl				GFF	F dup vol						#
02 SBE42S/N	DEPTH DESIRE	_	147	SA		Nut.Bil 597		Vol	Vol	GFF	F dup vol						1
02 SBE42S/N	DEPTH DESIRE	_	147 30	SA		597 596		250	Vol	GFF	F dup vol						1 2
02 SBE42S/N Nisk #	DEPTH DESIRE	_	147 30	SA		597 596		250	Vol	GFF	F dup vol						1 2 3
02 SBE42S/N Nisk # - 1 2 3 4	DEPTH DESIRE	_	147 30	SA		597 596		250	Vol	GFF	F dup vol						1 2 3 4
02 SBE42S/N Nisk # - 1 2 3 4 5	DEPTH DESIRE	_	147 30	SA		597 596		250	Vol	GFF	F dup vol						1 2 3 4 5
02 SBE42S/N Nisk # 1 2 3 4 5	DEPTH DESIRE	_	147 30			597 596		250	Vol	GFF	F dup vol				sample	s	# 1 2 3 4 5
02 SBE42S/N Nisk # 1	DEPTH DESIRE	_	147 30 20 20		LT Btl	597 596 598 598		250 250	Vol	GFF	F dup vol					s	1 2 3 4 5 6
02 SBE42S/N Nisk # - 1 2 3 4 5 6 7	DEPTH DESIRE 147 30 20	_	147 30 20		LT Btl	597 596 598		250 250	Vol	GFF	F dup vol				sample		# 1 2 3 4 5 6 7 8
02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8	DEPTH DESIRE	_	147 30 20 20		LT Btl	597 596 598 598		250 250 250	Vol	GFF	F dup vol				sample		# 1 2 3 4 5 6 7 8 9

55.17.6

vessel Northwest I	Explorer 2	016	CRUISE ID	NINIGOL	0		PROJECT & L	_EG (if	needed)			Name (None if date 1100 0 7 0 0			
CTD consec		LATITUDE		LONGITUDE		GMT DATE	(note if			Time	Surface Tem	BOTTOM DEPTH	STATION NUMBER	STI	
22	DEG	MIN 04. 468	DEG	00,065	\vdash	DAY 27	MO /-	YR /	HR	MIN	(°C)	(m)	7 7.0	12/	_
20	30	09. 160	N 135	00,062	W	27	400	1 色	15	40		440	20090	UC	A
Sensor IDS (ensor IDS (initially & swap-outs)													CTD MAX. D	EPTH
SBE type and S/N														200	5
PRESS S/N	_		· · · · · · · · · · · · · · · · · · ·	COMMENT: Diffi	icult	conditio	ns, factors th	nat ma	y affect i	measur	ements or aid	processing			
EMP 1 82 SNs															
OND 182 S/Ns	_														
LUOR S/N 12 (SBE43) S/N	_														
ransmiss S/N	-			-											
AR SAI	_														
22 SBE42S/N	_														
Nisk #	DEPTH	Rosette Notes	Hy	dro Team		GFF	>10 Large		FF dup vo	>10	dup vol Phyto		Comments	or other	Nis
NISK W	DESIRED		SALT BII	Nut.Bit		vol	Vol	_ "	rr dup vo	(la	arge) preserv	е	sample	es.	#
1 -2	00	200	208	607										<u> </u>	1
2 1	50	30		601		251	2								2
3	7.0	20		(000		257)								3
4															4
5															5

RDNA

VESSE North	L west Explorer	2016	CRUISE I	P NWI	leo(e	>	PROJECT & LE	EG (if	needed)			me (None if dat		
ш	consec \ST #	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)		
2	3 58	(06:076	N 135	01.08	YW	27	AUG	6	171	2		277	20091	UCB
Senso	or IDS (initially &	swap-outs)		Weather:										CTD WAX. DEPTH =
SBE type at	nd S/N					·								200
PRESS SAN TEMP 1 &2 COND 1&2 FLUOR SAN	SNs S/Ns			COMMENT	: Difficult	condition	s, factors tha	at may	y affect n	10asur	ements or aid p	rocessing		
O2 (SBE43)	5/N													
Transmiss S		 -		_										
PAR SAN				_										
O2 SBE42S														
Aliete #	DEPTH	Rosette Notes		lydro Team		GFF	>10 Large	T	FF dup vol	>10	dup voi Phyta		Comments	or other Nisk
Nisk#	DESIRED		SALT BII	NutBt		vol	Vol	6	rr dup voi		irge) preserve		sampl	
1	200	200		607										1
2	30	30		606		250								2
3	20	70		605		250		2	50			_	-6	3
4														4
5												_	****	5
6												<u> </u>		6
7														7
8	(D)	9		1004		250		\perp						8
9	10	q											eDNA.	9
10	<u> </u>	2		603		250				ļ				10
11							_							11
12		1			ļ					-				12

VESSEI North	west Expl	orer 201	16	CRUISE ID	NWIL	ماص		PROJECT & LEG	i (if neede	d)		ne (None if data		
31	consec	L	ATITUDE		LONGITUDE		GMT DATE	(note if no	et) GMT	Time		BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
<u></u>	DI	EG	MIN	DEG	MIN	N	DAY	MO Y	R HR	MIN	(°C)	(m)		
2	_4	58	7.704	N 135	4.20	4 w	27/	4061	918	53		175	20092	UCC
Senso	or IDS (initia	ally & sw	ap-outs)		Weather:							···		CTD WAX. DEPTH =
SBE type an	nd SAN		_											165
PRESS S/N					COMMEN	T: Difficult	condition	s, factors that	may affec	t measu	ements or aid p	ocessing		
TEMP 1 82 :	SNs	4.5												
COND 1&2	S/Ns													
FLUOR S/N														
O2 (SBE43)					-ji									
Transmiss S	ZN .			_:	-									
PAR SN		-			- I =									
O2 SBE425/	all —	~												
	DE	PTH	Rosette Notes	Hy	dro Team		GFF	>10 Large	GFF dup	>10	dup vol Phyto		Comments o	r other Nisk
Nisk#	DES	SIRED	-		1	1	vol	1 .		VOI] ,		ŀ		
,		511-25		SALT Bil	Nut.Btl		701	Vol	ин вор	(arge) preserve		sample	
1	165		165	SALT Bil	Nut.B11		701	Vol	ат обр	- (arge) preserve		sample	
2	165 30		165	SALT BII			150		orr dop	(1	arge) preserve		sample	s #
				SALT BII	612				CAT GOD		arge) preserve		sample	s #
2	30		31	SALT B1I	612		150		- CAT GOD	(arge) preserve		sample	1 2
3	30		31	SALT B11	612		150				arge) preserve		sample	1 2 3
3 4	30		31	SALT B11	612		150				arge) preserve		sample	1 2 3 4
3 4 5	30		31	SALT B11	612		150				arge) preserve		sample	1 2 3 4 5
2 3 4 5	30		31	SALT B11	612		150 250				arge) preserve			1 2 3 4 5 6 7 8
2 3 4 5 6 7	30 20		31 20		612		150				arge) preserve		sample eDN/	1 2 3 4 5 6 7 8
2 3 4 5 6 7 8	30 20		31 20		612		150 250				arge) preserve			1 2 3 4 5 6 7 8
2 3 4 5 6 7 8	30 20 10		3\ 20		612		250 250 250				arge) preserve			1 2 3 4 5 6 7 8 9

*

VESSEL North	west Expl	orer 20	16	CRUISE 1D	M160	(e		PROJECT & L	EG (if	needed	d)	С		ne (None if dat W1606)			
1	consec ST #	L.	ATITUDE		LONGITUDE		GMT DATE	(note if	not)	GMT	Tim		ce Temp	BOTTOM DEPTH	STATION NUMBER	STI	
	D	EG	MIN	DEG	MIN	_	DAY	МО	YR	HR	MIN		(°C)	(m)			
2	-5	58	09.210	135	02.629	w	27	AUG	16	50	43			174	20073	UCI)
Senso	r IDS (initia	ally & sw	ap-outs)		Weather:											CTD WAX. D	
SBE type an	d S/N															/0	4
PRESS S/N					COMMENT: Dif	ficuit	conditio	ns, factors th	at ma	y affec	t meas	urement	or aid pr	ocessing			1
TEMP 1 &2	SNs	63															
COND 182	S/Ns																
FLUOR S/N																	
02 (SBE43)	S/N			<u> </u>													
Transmiss S	N .																
PAR SAN																	
O2 SBE42S	N	_	<u> </u>		-								-				
	DE	PTH :	Rosette Notes	Ну	dro Team		GFF	>10 Large	T.	ner /	. >	10 dup vo	Phyto		Comments	or other	Nisk
Nisk#	DE	SIRED		SALT Bil	NutBtl		vol	Vol		GFF dup	VOI	(large)	preserve		samp	les	#
1	166	(164		617												1
2	30		30		616		250										2
3	20	1.1	30		615		250							_			3
4																	4
5														_			5
6									\perp	. <u></u>				ļ			6
7		12															7
8	10		To		614		250										8

D

HNAS

VESSEL CRUISE ID Northwest Explorer 2016					ISE ID					PROJECT & NBS leg	LEG (i	f needed)		CTD FileNar			
	consec		LATITUDE			LONGIT	UDE		GMT DATE	(note	if not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	ı	DEG	MIN		DEG		MIN		DAY	МО	YR	HR	MIN	(°C)	(m)		
3	4	58	21.991	N 1	34	39	920	w	29	AUG	1 6	15	80		49	20102	ABM
Senso	r IDS (init	ially & sv	vap-outs)			Weath	er:										CTD WAX. DEPTH =
SBE type ar	id S/N																
PRESS S/N						СОММ	ENT: Diff	ficult	conditio	ns, factors	that ma	y affect i	neasur	ements or aid p	ocessing		
TEMP 1 &2	SNs	+				1											
COND 182	S/Ns																
FLUORI S/N																	
02 (SBE43)	S/N																
Transmiss S	N .																
PAR SAN			<u> </u>														
02 SBE42S	N	_											-				
]	D	EPTH	Rosette Notes	T	Hvo	iro Team			CEE	>10 Larg			>10	dup vol Phyto	<u> </u>	Comments	or other Nisi
Nisk #		DESIRED		SALT		Nut.8tl			GFF vol	Vol	" '	GFF dup vo		arge) preserve		sampl	
	39	3311420	40	2		62	7				-				<u> </u>		
1	30		29	-	11	621	*****		250								2
2			20				+								+	+	
3	20		LU			620			250						-		3
4																	4
5						44-4									_		5
6									:								6
7		15															7
			16	1		1-10			- ~~								

1.5

VESSEL Northw	est Explorer 2	016	CRUISE I	D			PROJECT &	LEG (if	needed)		CTD File!	CTD FileName (None if data is live feed)					
CTD cc		LATITUDE		LONGITUE	DE .	GMT DATE	мт			Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	ST NAMI			
	DEG	MiN	DEG	м	IN	DAY	МО	YR	HR	MIN	(°C)	(m)					
1			N		w			1 4									
S	IDC (S-W-III - P	Weather															
SBE type and S	IDS (initially & s	wap-outs)		weather	4								<u></u>	CTO WAX. D			
PRESS S/N				COMME	NT: Difficult	conditio	ns, factors t	hat ma	v affect r	neasur	ements or aid	processing					
TEMP 1 &2 SN	 Is	*()				-	_					,	to skills	,			
COND 182 S/N	ds .																
FLUOR S/N	_																
02 (SBE43) S/I	N						-										
Transmiss S/N				_ _													
PAR SAN									-								
O2 SBE42S/N										-			-	~			
	DEPTH	Rosette Notes		Hydro Team		GFF	>10 Large	e		>10	dup vol Phyto		Comments	or other	Nisk		
Nisk#	DESIRED	DESIRED		NotBil	NutBil		Vol	۱	SFF dup vol		arge) preserv	e	samp	les	#		
1														101	1		
2						}								*****	2		
3															3		
4															4		
5															5		
6															6		
7	- 5								,						7		
8				****						<u> </u>					8		
9								_							9		
, - II		-#							*********						1		
10		-									l l				10		
10								+							10		
10 11 12														and the state of t	11 12		

VESSEL Northy	vest Exp	olorer 20	16	CRUISE I	D			PROJECT & I NBS leg	LEG (if	f needed)		C	CTD FileName (None if data is live feed)					
	onsec	1	LATITUDE		LONGITUD	E	GMT DATE	(note il	fnot)	GMT Tin		Surfa	се Тетр	BOTTOM DEPTH	STATION NUMBER	ST NAM		
		DEG	MIN	DEG	М	IN	DAY	МО	YR	HR	MIN	- ((°C)	(m)				
				N		w			1 4									
Sensor IDS (initially & swap-outs)					Weather:			12.00								CTD WAX. C	EPTH =	
SBE type and						-												
PRESS S/N					COMMEN	iT: Difficult	conditio	ns, factors t	nat ma	y affect r	neasur	ements	or aid pr	ocessing				
TEMP 1 &2 S	Ns																	
COND 182 S	Ns																	
FLUCH S/N					-													
O2 (SBE43) S Transmiss S/I				·	_													
PAR SAN																		
O2 SBE42S/N																		
													-				1	
Nisk#		· · · · · · · · · · · · · · · · · · ·	Rosette Notes		Hydro Team		GFF	>10 Large	; (GFF dup vo) dup vol			Comments		Nisk	
Nisk #		DEPTH DESIRED	Rosette Notes	SALT Bil	Hydro Team Nut.81		GFF vol	>10 Large Vol	, (GFF dup vol			Phyto preserve		Comments samp		Nisk #	
Nisk#		· · · · · · · · · · · · · · · · · · ·	Rosette Notes				II .		, (GFF dup vo							1	
		· · · · · · · · · · · · · · · · · · ·	Rosette Notes				II .		, (SFF dup vol							#	
1		· · · · · · · · · · · · · · · · · · ·	Rosette Notes				II .		3	SFF dup vol							1	
1 2		· · · · · · · · · · · · · · · · · · ·	Rosette Notes				II .		3 (GFF dup vol							1 2	
1 2 3		· · · · · · · · · · · · · · · · · · ·	Rosette Notes				II .		, (GFF dup vol							1 2 3	
1 2 3 4		· · · · · · · · · · · · · · · · · · ·	Rosette Notes				II .		3 (SFF dup vol							1 2 3 4	
1 2 3 4 5 6		· · · · · · · · · · · · · · · · · · ·	Rosette Notes				II .		3	SFF dup vol							1 2 3 4 5	
1 2 3 4 5 6		ESIRED	Rosette Notes				II .			GFF dup vol							1 2 3 4 5 6 7	
1 2 3 4 5 6 7 8		ESIRED	Rosette Notes				II .		3 (SFF dup vol							1 2 3 4 5 6 7 8	
1 2 3 4 5 6 7 8 9		ESIRED	Rosette Notes				II .			SFF dup vol							1 2 3 4 5 6 7 8 9	
1 2 3 4 5 6 7 8		ESIRED	Rosette Notes				II .			SFF dup vol							1 2 3 4 5 6 7 8	

VESSEL Northw	est Exp	olorer 20	16	CRUISE I	D			PROJECT & NBS leg	LEG (if	needed)		СТВ	CTD FileName (None if data is live feed)					
CTD c		1	ATITUDE		LONGITUD	E	GMT DATE	(note if not)		GMT Time		Surface	Тетр	BOTTOM DEPTH	STATION NUMBER	ST		
		DEG	MIN	DEG	М	N	DAY	МО	YR	HR	MIN	(°C))	(m)				
				N		l w		1 1	1 4									
Sensor	IDS (init	ially & sw	rap-outs)	II	Weather:										<u>I</u> .	CTD MAX. D	EPTH =	
SBE type and	S/N																	
PRESS S/N					COMMEN	IT: Difficult	conditio	s, factors t	hat ma	y affect n	neasur	ements o	r aid pro	ocessing				
TEMP I &2 SN	ls	70																
COND 182 5/1	Ns																	
FLUOR S/N																		
O2 (SBE43) S/																		
Transmiss S/N PAR S/N				<u></u>														
O2 SBE42S/N																		
IOC SOLITEGIS					H .													
OE SOLVESIII																_ == :	9	
	D	ЕРТН	Rosette Notes	<u> </u>	Hydro Team		GFF	>10 Large		SEE dun vol		dup vol Ph	iyto		Comments		Nisk	
Nisk#		DEPTH ESIRED	Rosette Notes	SALT BII	Hydro Team		GFF vol	>10 Large Vol	9 6	SFF dup vol			iyto eserve		Comments		Nisk #	
			Rosette Notes	-			Ш		9 6	SFF dup vol								
Nisk#			Rosette Notes	-			Ш		9 6	SFF dup vol							#	
Nisk#			Rosette Notes	-			Ш		9 (6	GFF dup vol							1	
Nisk#			Rosette Notes	-			Ш		9 6	SFF dup vol							1 2	
Nisk# 1 2 3			Rosette Notes	-			Ш		9 6	SFF dup vol							1 2 3	
Nisk# - 2 3 4			Rosette Notes	-			Ш		e (GFF dup vol							1 2 3 4	
Nisk# - 2 3 4 5			Rosette Notes	-			Ш		9 6	SFF dup vol							1 2 3 4 5	
Nisk# 1 2 3 4 5 6 7			Rosette Notes	-			Ш		е 6	SFF dup vol							1 2 3 4 5 6	
Nisk# - 1 2 3 4 5 6 7 8			Rosette Notes	-			Ш		е с	SFF dup vol							# 1 2 3 4 5 6 7	
Nisk# 1 2 3 4 5 6 7 8 9			Rosette Notes	-			Ш		9 6	SFF dup vol							# 1 2 3 4 5 6 7 8	
Nisk# - 1 2 3 4 5 6 7 8			Rosette Notes	-			Ш		9 6	SFF dup vol							# 1 2 3 4 5 6 7 8 9	