vessel Northwe	est Exp	olorer 20	16			CRUISE ID	NWI	205			PROJECT & L	_EG(i	f needed) 		C		ne (None if o	data is live fe	ed)	
CTD co			LATITUD	E			LONGITUE			GMT DATE	(note il	fnot)	GMT	Time	Surfac	e Temp		STATION NUMBER	ST	N. IE/ID
- 2		DEG	MIN		П	DEG	N	IIN		DAY	МО	YR	HR	MIN	(°C)	(m)			
Ø1.		57	20.	491	N	137	25.	951	w	12	AUG	1 6	15	14			2612	1	SEI	40
Sensor I	DS (ini	tially & sv	vap-outs	;)			Weather	:											CTD MAX.	DEPTH
8E type and Si					Т														5	0
RESS SAN							COMME	NT: Dif	ficult	condition	s, factors th	nat ma	y affect n	neasure	ements	or aid pro	ocessing	-		
EMP 1 &2 SNs							Ī													
OND 182 S/Ns	S					M _{ar} illa														
LUOR S/N							Casi		b	50	Dun * 1	10	War	J	Sa.	~ple 5	5e	ing to	aken	
2 (SBE43) S/N																				
ransmiss S/N																				
AR S/N							_						1			*				_
2 SBE42S/N							-				<u> </u>									
		DEPTH	Rosette	Notes	i	H	ydro Team			GFF	>10 Large	,	orr d	, >10	dup vol	Phyto		Comments	or other	
Nisk #	50	ESIRED				SALT Bil	Nut.Btl	8		vol	Vol	'	GFF dup vo			preserve		sampl	es	Nisk
1																				1
2													•••••••							2
3						1 1												<u> </u>		3
4										}						,	7			4
5											<u> </u>									5
6																	_			6
7							1	1				\top		\top					18	7
8																				8
												+			-					9
9																				10
10														+			+			1
11			-																	11
12																				

VESSEL Northwe	est Explo	orer 20	16		CRUISE ID	MM100	5		ROJECT & LE	G (if	needed)		СТ		ne (None if	data is live fe	ed)	
CTD co CAST			LATITUDE			LONGITUDE		GMT DATE	(note if n	ot)	GMT	Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	N. IE/ID
0.101		EG	MIN	П	DEG	MIN		DAY		YR	HR _	MIN	_('	°C)	(m)			
2		57	10.720	N	137	58.3	19 W	12	AUG 1	4	18	53		2 -	2854	2	SEI	0ي.
Sensor I	DS (initia	ally & sv	vap-outs)			Weather:	100-00-00						3900		all		CTD MAX.	
SBE type and S																	.5	0
PRESS S/N		-	130	23//20	- 1	COMMENT	Γ: Difficult	conditions	s, factors tha	t ma	y affect n	neasure	ments	or aid pro	ocessing			
TEMP 1 &2 SNs																		
COND 1&2 S/N	s																	
FLUOR S/N			Va			- contractive												
02 (SBE43) S/N	1				Market 1													
ransmiss S/N		_																
PAR S/N																		
02 SBE42S/N						-												
	DE	PTH	Rosette Notes	1	Н	lydro Team		GFF	>10 Large			>10	dup vol	Phyto		Comments	or other	No.
Nisk #		SIRED			SALT Bil	Nut.Btl		vol	Vol	ľ	GFF dup vo			preserve		samp	les	Nisk
1	N. N.	-1							20									1
2			-															2
																		3
3																		4
4		-		-			-		_	+		+-		_				5
5					****		ļ											
6	625									4				77.			25/2	6
7								1										7
8													·					8
		-																9
9								•		-					1		, , , , , , , , , , , , , , , , , , , ,	10
										1					The second second			
10	_		-			-												1,1
11																	100	1:

VESSEL Northwe	est Explorer 20	016	CRUISE ID	NW1605			PROJECT & L NBS leg	EG (if	needed)		ст	D FileNar	ne (None if o	data is live fee	d)
CTD cor		LATITUDE		LONGITUDE		GMT DATE	(note if	fnot)	GMT	Time	Surfac	e Temp _	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	МО	YR	HR	MIN	(°	'C)	(m)		
3	57	00.698	N 138	30,099	w	12	AUG	1 6	22	37			3242	3	SEI80
Sensor I	DS (initially & s	wap-outs)		Weather:											CTD MAX. DEPTH :
SBE type and S/	N												<u> </u>		51
PRESS S/N	-			COMMENT: Diff	icult	condition	s, factors th	nat ma	y affect n	easurer	ments	or aid pr	ocessing		
TEMP 1 &2 SNs															
COND 182 S/Ns															
FLUOR S/N	_		-												
02 (SBE43) S/N Transmiss S/N	-									-					
PAR S/N 02 SBE42S/N															
PAR S/N															
PAR S/N 02 SBE42S/N	DEPTH	Rosette Notes		lydro Team		GFF	>10 Large	e (GFF dup vo	1	dup vol			Comments o	Mick
PAR S/N	DEPTH DESIRED	Rosette Notes	SALT Btl	Hydro Team		GFF vol	>10 Large Vol	e	GFF dup vo	1		Phyto preserve		Comments o sample	Mick
PAR S/N 02 SBE42S/N		Rosette Notes	-					е (GFF dup vo	1					Mick
PAR S/N 02 SBE42S/N Nisk #		Rosette Notes	-					е (GFF dup vo	1					s Nisk
PAR S/N 02 SBE42S/N Nisk #		Rosette Notes	-					е (GFF dup vo	1					s Nisk
PAR S/N 02 SBE42S/N Nisk #		Rosette Notes	-					е (GFF dup vo	1					s Nisk
PAR S/N O2 SBE42S/N Nisk # 1 2 3 4		Rosette Notes	-					e (GFF dup vo	1					1 2 3
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4		Rosette Notes	-					e (GFF dup vo	1					1 2 3 4
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes	-					e (GFF dup vo	1					1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7		Rosette Notes	-					e (GFF dup vo	1					1 2 3 4 5 6
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes	-					e (GFF dup vo	1					1 2 3 4 5 6 7 8
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9		Rosette Notes	-					9 (GFF dup vo	1					1 2 3 4 5 6 7 8 9
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes	-					e (GFF dup vo	1					1 2 3 4 5 6 7 8

vessel Northwe	st Explorer 2	016	CRUISE ID	NWILO	5		PROJECT & LI	EG (if	f needed)		CTD File	Name (None if	data is live fe	ed)	
CTD con		LATITUDE		LONGITUDE		GMT DATE	(note if	not)_	GMT	Time	Surface Terr	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	DEG	MIN		DAY	МО	YR	HR	MIN	(°C)	(m)			
4			N		w	13	AUG	1 á				8	4	SET	/08'
Sensor ID	OS (initially & s	wap-outs)		Weather:			⁻							CTD MAX.	DEPTH =
SBE type and S/N				100										<u> </u>	
PRESS S/N				COMMENT: [Difficult	condition	s, factors th	at ma	y affect m	easure	ements or aid	processing			
TEMP 1 &2 SNs															
COND 182 S/Ns											architecture of				
FLUOR S/N	7 1	_		N o		ast.	. 3	0 1	- h	ind	5				
02 (SBE43) S/N	_														
Transmiss S/N	_											-			
PAR S/N	_														
O2 SBE42S/N				-											
	DEPTH	Rosette Notes		l Iydro Team		GFF	>10 Large		GFF dup vol	>10	dup vol Phyto		Comments		Nisk #
Nisk#	DESIRED		SALT Bil	Nut.Btl		vol	Vol	<u> </u>	GFF GGP VO	(1	arge) preser	ve	samp	les	141314 #
1															1
2															2
3															3
4															4
5															5
6							11			-		_	 		6
7															7
8							_								8
9															9
10										-					10
11															11
12															12

vessel Northwes t	Explorer 20	016	CRUISE ID	NWI	1005		PROJECT & NBS leg	LEG (ii	f needed) -				ne (None if o	data is live fee	d)	
CTD conse	ес	LATITUDE		LONGITU	DE	GMT DATE	(note i	f not)	GMT	Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	STI NAME	
	DEG	MIN	DEG	- 1	MIN	DAY	МО	YR	HR	MIN	('	'C)	(m)	<u> </u>		
5	56	40.891	N 139	33	.636	w 13	AUG	1	15	04			3430	5	SETI	20
Sensor IDS	(initially & s	wap-outs)		Weathe	er:										CTD MAX. D)EPTH
SBE type and S/N															51	
RESS S/N	-			COMME	NT: Diffi	cuit condit	ons, factors t	hat ma	y affect n	neasure	ments	or aid pro	ocessing			
EMP 1 &2 SNs																
OND 182 S/Ns																
LUOR S/N	_						***		7							
2 (SBE43) S/N		War 2012 201 201														
ransmiss S/N						-										
AR S/N	_															
02 SBE42S/N	-															
																Т
Nisk#	DEPTH	Rosette Notes	1	lydro Team		GI	The second second	е	GFF dup vo		dup vol arge)	Phyto preserve		Comments o sample		Nisk
	DESIRED		SALT Btl	Nut.Btl			7 701	_		- ("	ui ge,	D1000110				
1																1
2						Chest XX					1					2
									ALCONO.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			3
3			A		100	556										l .
4													·			4
																5
4																5
5																⇈
4 5 6 7																5
4 5 6																5
4 5 6 7 8																5 6 7
4 5 6 7 8 9																5 6 7 8

vessel Northwe	est Explo	orer 20	16	CRUISE	NWIL	905			PROJECT & I	LEG (if	f needed) -		СТ		ne (None if o	data is live fe	ed)	
CTD co			LATITUDE		LONGITUI	DE		GM T DATE	(note i	f not)	GMT	Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	STN NAME	
	DE	EG	MIN	DEC	!	MIN		DAY	MO	YR	HR	MIN	('	'C)	(m)			
6	2	56	31. 428	N U	05. (627	w	13	AUG	1 4	18	34		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3800	6	SEI	140
Sensor	IDS (initia	ally & sw	vap-outs)		Weathe	er:											CTD MAX. D	EPTH =
SBE type and S	S/N																50	
PRESS S/N					СОММЕ	ENT: Diffic	cult c	ondition	s, factors t	hat ma	y affect	measur	ements	or aid pro	ocessing		<u> </u>	
TEMP 1 &2 SN		_				·-												
COND 182 S/N FLUOR S/N	43	_																
02 (SBE43) S/I	N	-				A. ***												
		_		-														
Transmiss S/N													-					
Transmiss S/N PAR S/N																		
7																		
PAR S/N		<u> </u>																
PAR S/N 02 SBE42S/N		ЕРТН	Rosette Notes		Hydro Team			GFF	>10 Larg	je (GFF dup v	31) dup vol			Comments		Nisk #
PAR S/N	DE	EPTH SIRED	Rosette Notes	SALT BU	Hydro Team Nut.Btl			GFF vol	>10 Larg	le (GFF dup v	31		Phyto preserve		Comments samp		Nisk #
PAR S/N 02 SBE42S/N	DE		Rosette Notes	SALT BU						je (GFF dup v	31						Nisk #
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT BU						e (GFF dup v	31						Nisk #
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT Btl						e (GFF dup v	31						1
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT Btl						e (GFF dup v	31						1 2
PAR S/N 02 SBE42S/N Nisk # 1 2 3	DE		Rosette Notes	SALT BU						e (GFF dup v	31						1 2 3
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT BU						e (GFF dup v	31						1 2 3 4
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT BU						e (GFF dup v	31						1 2 3 4
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT Btl						e (GFF dup v	31						1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT Btl						e (GFF dup vi	31						1 2 3 4 5 6 7
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT BU						e (GFF dup v	31						1 2 3 4 5 6 7 8
PAR S/N 02 SBE42S/N Nisk #	DE		Rosette Notes	SALT BU						e (GFF dup v	31						1 2 3 4 5 6 7 8

VESSEL Northwes t E	xplorer 20	016	CRUISE IE	NW1605	<u> </u>		ROJECT & LI	EG (if	f needed) -			me (None if	data is live fe	ed)	
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE	(note if	not)	GMT	Time Su	face Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	DEG	MIN		DAY	МО	YR	HR	MIN	(°C)	(m)			
7	56	21.675	140	37.298	w	13	AUG	1	22	50		3800	7	SEI	169
Sensor IDS (i	nitially & s	wap-outs)		Weather:						-				CTD MAX.	DEPTH :
SBE type and S/N					1			_	-					50	2
RESS S/N				COMMENT: Diff	icult d	condition	s, factors the	at ma	y affect n	easuremen	ts or aid pr	ocessing			
EMP 1 &2 SNs					-										
COND 182 S/Ns	_														
LUOR S/N	-														
)2 (SBE43) S/N	_	*													
22 (002.10) (011					_										
ranemies S/N															
Transmiss S/N	-														
PAR S/N						4.24									
PAR S/N						1 1 - 1									
PAR S/N 02 SBE42S/N	DEPTH	Rosette Notes		Hydro Team		GFF	>10 Large		GFF dup vo		vol Phyto		Comments		Nisk
PAR S/N	DEPTH DESIRED	Rosette Notes	SALT Btl	Hydro Team		GFF vol	>10 Large Vol		GFF dup vo	>10 dup (large)			Comments		Nisk
PAR S/N D2 SBE42S/N		Rosette Notes							GFF dup vo						Nisk 1
PAR S/N D2 SBE42S/N Nisk #		Rosette Notes							GFF dup vo						
PAR S/N D2 SBE42S/N Nisk #		Rosette Notes							GFF dup vo						1
PAR S/N D2 SBE42S/N Nisk #		Rosette Notes							GFF dup vo						1 2
PAR S/N D2 SBE42S/N Nisk # 1 2 3		Rosette Notes							GFF dup vo						1 2 3
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4		Rosette Notes							GFF dup vo						1 2 3 4
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6		Rosette Notes							GFF dup vo						3 4 5
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7		Rosette Notes							GFF dup vo						3 4 5 6
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes							GFF dup vo						1 2 3 4 5 6
Nisk # 1 2 3 4 5 6 7 8 9 9		Rosette Notes							GFF dup vo						1 2 3 4 5 6 7 8
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7		Rosette Notes							GFF dup vo						1 2 3 4 5 6 7 8 9

VESSEL Northwest E	xplore	r 20	16		CRUISE ID	1/4	1160	5		ROJECT &	LEG (if	f needed) -		C	TD FileNan	ne (None if	data is live fe	ed)	
CTD consec CAST #			LATITUDE			LONGIT	UDE		GMT DATE	(note	if not)	GMT	Time	Surfac	ce Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG		MIN		DEG		MIN		DAY	МО	YR	HR	MIN	((°C)	(m)			
8	5	6	12.126	N	141	08	.912	w	14	AUG	1 👍	01	26			4000	8	SEI	180
Sensor IDS (i	nitially	& sw	/ap-outs)			Weath	ner:											CTD MAX. I	DEPTH =
SBE type and S/N					27%						V								
PRESS S/N			- 151			COMM	IENT: Diffi	cult	condition	s, factors	that ma	y affect r	neasure	ements	or aid pro	cessing			
TEMP 1 &2 SNs																			
COND 1&2 S/Ns																			
FLUOR S/N																			
02 (SBE43) S/N		_		_		_													
Transmiss S/N		_		-		-													
PAR S/N O2 SBE42S/N		-		200		1							**				-		
DE COLTECTION		-																	
Nisk #	DEPTH		Rosette Notes		H	ydro Team	1		GFF	>10 Larg	ge (GFF dup vo		dup vol	Phyto		Comments	or other	Nisk #
INISK #	DESIRE	D			SALT Bit	Nut.Bti			lov	Vol		or dup vo	" (la	arge)	preserve		sampl	es	INISK #
1			200		400	33					1925			1000000	359 13			588	1
2																			2
3																			3
4																			4
5				T														7562 SEA	5
6																			6
				+		+-					-		+				1933		7
7				-															
8								_			+							-	8
9																			9
10				+				- 6.					-			-	2 22 22	5 5	10
11				_					ļ										11
12																			12

vessel Northw	est Explorer 20	016	CRUISE IE	NH1605			ROJECT & L	LEG (if	needed)		СТ		me (None if o	data is live fe	ed)	17 80
CTD co		LATITUDE		LONGITUDE		GMT DATE	(note if	f not)	GMT	Time	Surfac	e Temp	1	STATION NUMBER	STI NAMI	
	DEG	MIN	DEG	MIN		DAY	МО	YR	HR	MIN	(°	'C)	(m)			
9	56	03.940	N 141	35.681	w	14 /	406	1 🖢	15	0.3			3200	9	SETT	200
Sensor	IDS (initially & s	swap-outs)		Weather:		207									CTD MAX. [DEPTH
SBE type and S	S/N	- 12 12 Mark													50	
PRESS S/N				COMMENT: Diffi	cult o	conditions	, factors th	nat ma	y affect n	neasuren	nents (or aid pro	ocessing			
TEMP 1 &2 SN	is															
COND 182 S/N	łs															
FLUOR S/N		4 100														
02 (SBE43) S/																
Transmiss S/N																
	300			100												
PAR S/N																
PAR S/N O2 SBE42S/N															4	
02 S8E42S/N	DEPTH	Rosette Notes	H	Hydro Team		GFF	>10 Large	, ,	TE due vo	>10 d	lup voi	Phyto		Comments	or other	
	DEPTH DESIRED	Rosette Notes	SALT Bil	Hydro Team		GFF vol	>10 Large Vol	; G	SFF dup vo	>10 d (larg		Phyto preserve		Comments sample		Nisk
02 S8E42S/N		Rosette Notes				II.		; (3FF dup vo							Nisk
02 S8E42S/N		Rosette Notes				II.		; 6	3FF dup vo							1
02 SBE42S/N Nisk # -		Rosette Notes				II.		; 6	3FF dup vo							1
02 SBE42S/N Nisk # -		Rosette Notes				II.		, (3FF dup vo							1 2
02 SBE42S/N Nisk # -		Rosette Notes				II.		• 6	SFF dup vo							1 2 3
02 SBE42S/N Nisk #		Rosette Notes				II.) (GFF dup vo							1 2 3 4
02 SBE42S/N Nisk #		Rosette Notes				II.			3FF dup vo							1 2 3 4 5
1 2 3 4 5 6		Rosette Notes				II.			3FF dup vo							1 2 3 4 5
02 SBE42S/N Nisk #		Rosette Notes				II.		• (3FF dup vo							1 2 3 4 5 6
1 2 3 4 5 6 7 8 9		Rosette Notes				II.		• (3FF dup vo							1 2 3 4 5 6 7 8
02 SBE42S/N Nisk #		Rosette Notes				II.			3FF dup vo							1 2 3 4 5 6 7 8 9

											_				
VESSEL Northwe	est Explorer 2	016	CRUISE I	D NWI	005		PROJECT & L	EG (if	needed)		CTD FileNa	me (None if	data is live fo	eed)	
CTD cor		LATITUDE		LONGITUDE	·	GMT DATE	(note if	not)	GMT	Time Su	rface Temp		STATION NUMBER	ST NAM	
	DEG	MIN	DEG	MIN	N	DAY	МО	YR	HR	MIN	(°C)	(m)			
10	56	20. 136	N 141	58.9	872 W	18	AUG	1 4	18	16		3800	10	SEK	200
Sensor II	DS (initially &	swap-outs)		Weather:						-		-		CTD MAX.	DEPTH =
SBE type and S/I	ν												_	50	
PRESS S/N				COMMEN	T: Difficult	condition	s, factors th	at may	y affect m	neasureme	nts or aid pr	ocessing			
TEMP 1 &2 SNs															
COND 1&2 S/Ns	_														
FLUOR S/N	_														
02 (SBE43) S/N															
ransmiss S/N	_								-						
PAR S/N	_														
D2 SBE42S/N				-											
	DEPTH	Rosette Notes	_	Hydro Team		GFF	>10 Large			>10 duo	vol Phyto	8	Comments	or other	\Box
Nisk #	DESIRED		SALT BII	Nut.Btl		vol	Vol	G	GFF dup vol	(large			samp		Nisk #
1															1
2															2
3												_			3
4															4
5															5
6												1			6
7															7
8						ļ						<u> </u>			8
9															9
10					-										10
11															11
12													İ		12

VESSEL Northwest	t Explorer 20	016		CRUISE ID	NW 1605			PROJECT & NBS leg	LEG (i	f needed)		C		me (None if	data is live fe	eed)	
CTD conse		LATITUDE			LONGITUDE		GMT DATE	(note i	if not)	GMT	Time	Surfa	ce Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	+	DEG	MIN	\perp	DAY	МО	YR	HR	MIN		(°C)	(m)	ļ		
	56	29.179	N	14(28,589	_ v	14	AUG	1 6	27;	UU			_	11	SEK	180
Sensor IDS	6 (initially & s	wap-outs)			Weather:											CTD MAX.	DEPTH:
SBE type and S/N		- CE					-									50)
PRESS S/N					COMMENT: D	ifficul	condition	s, factors t	hat ma	y affect r	neasure	ments	or aid pre	ocessing			
TEMP 1 &2 SNs																	
COND 182 S/Ns																	
FLUOR S/N	<u> </u>	3000	200														
02 (SBE43) S/N																	
Transmiss S/N	_																
Transmiss S/N PAR S/N																	
	Ξ																
PAR S/N 02 SBE42S/N	DEPTH	Rosette Notes		Н	lydro Team		GFF	>10 Large	e ,		, >10	dup vol	Phyto		Comments	or other	I
PAR S/N	DEPTH DESIRED	Rosette Notes	s	H SALT Bil	lydro Team		GFF	>10 Larg	e (GFF dup vo			Phyto preserve		Comments samp		Nisk
PAR S/N 02 SBE42S/N		Rosette Notes	s						e (GFF dup vo							Nisk
PAR S/N D2 SBE42S/N Nisk #		Rosette Notes	s						e (GFF dup vo							
PAR S/N D2 SBE42S/N Nisk #		Rosette Notes	s						e	GFF dup vo							1
PAR S/N D2 SBE42S/N Nisk #		Rosette Notes	s						e (GFF dup vo							1 2
PAR S/N D2 SBE42S/N Nisk # 1 2 3		Rosette Notes	s						e (GFF dup vo							1 2 3
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4		Rosette Notes	s						е (GFF dup vo							1 2 3 4
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes	S						e	GFF dup vo							1 2 3 4 5
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6		Rosette Notes	S						e	GFF dup vo							1 2 3 4 5 6
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes	S						e	GFF dup vo							1 2 3 4 5 6 7
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9		Rosette Notes	S						е (GFF dup vo							1 2 3 4 5 6 7 8
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes	S						e (GFF dup vo							1 2 3 4 5 6 7

VESSEL Northwest E	xplorer 20	16	CRUISE ID	NWI	g 05			PROJECT & NBS leg	LEG (ii	f needed) -		С		me (None if dat			
CTD consec CAST #		LATITUDE		LONGITUD	E		GMT DATE	(note	f not)	GMT	Time	Surfa	ce Temp	BOTTOM DEPTH	STATION NUMBER	STI	
	DEG	MIN	DEG	М		L	DAY	МО	YR	HR	MIN	((°C)	(m)		-	
12	56	39.109	140	56.5	82	w	15	AU 6	1 6	0 1	10			3800	12	SEKI	160
Sensor IDS (i	nitially & sv	vap-outs)	-88	Weather:												CTD MAX. DI	EPTH =
SBE type and S/N	_ x						_									50	
PRESS S/N				COMMEN	IT: Diffi	cult	conditio	ns, factors (hat ma	ay affect i	neasur	ements	s or aid p	rocessing	-		
TEMP 1 &2 SNs	_						•										
COND 182 S/Ns	-			-													
FLUOR S/N O2 (SBE43) S/N	-																
Fransmiss S/N																	
PAR S/N																	
O2 SBE42S/N												-	ų.				
			1				1			•	- 100						<u> </u>
Nisk#	DEPTH	Rosette Notes		lydro Team		-	GFF vol	>10 Larg	e (GFF dup vo		dup voi arge)	Phyto preserve		Comments sample		Nisk #
	DESIRED		SALT Bu	Nut.Btl					-								<u> </u>
1					-		 										1
2					-				+								2
3							 						-		************		3
4																	4_
5														_			5
6											-						6
7																	7
8					1		1										8
9																	9
10	,				†		 						.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				10
					+	_	-		\dashv								11
11	***************************************				+		ļ						 				 -
12																	12

VESSEL Northw	est Explo	rer 20	16	CRUIS	E ID	11 W161	55			ROJECT &	LEG (i	f needed) -		C	TD FileNan	ne (None if	data is live fe	eed)	
CTD c		I	LATITUDE		ļ	LONGITUDE	i		GMT DATE	(note i	f not)	GMT	Time	Surfac	ce Temp	BOTTOM DEPTH	STATION NUMBER	STI	
	DE	G	MIN		EG_	МІМ	١		DAY	мо	YR	HR	MIN	(°C)	(m)			
	3 1	56	48.413	N)L	ło	24, 7	07	w	15/	1 U G	1 4	15	03			3600	13	SEK	(140
Sensor	IDS (initia	lly & sw	rap-outs)			Weather:				7a 54								CTD MAX.	DEPTH
SBE type and	S/N								<u> </u>							· ·		50	0
PRESS S/N						COMMEN	T: Diffic	cult c	onditions	, factors t	hat ma	y affect n	easure	ments	or aid pro	cessing	4 11667777		
TEMP 1 &2 S	Vs.																		
COND 182 S/	Ns																		
LUOR S/N										13 3122									
02 (SBE43) S	/N																		
Transmiss S/N																			
PAR S/N																			
															•				
PAR S/N 02 SBE42S/N		тн	Rosette Notes		Hyde	ro Team			ar-										
	DES		Rosette Notes	SALT B		ro Team			GFF vol	>10 Larg	е (GFF dup vo		dup vol	Phyto preserve		Comments		Nisk
02 SBE42S/N	DEF		Rosette Notes	SALTB							е	GFF dup vo					1		Nisk
02 SBE42S/N	DEF		Rosette Notes	SALTB							B (GFF dup vo					1		1
02 SBE42S/N Nisk #	DEF		Rosette Notes	SALT B							В (GFF dup vo					1		1 2
02 SBE42S/N Nisk # -	DEF		Rosette Notes	SALTB							В (SFF dup vo					1		1 2 3
02 SBE42S/N Nisk # -	DEF		Rosette Notes	SALTB							B	GFF dup vo					1		1 2 3 4
02 SBE42S/N Nisk # -	DEF		Rosette Notes	SALT B							B (GFF dup vo					1		1 2 3
Nisk # - 1 2 3 4	DEF		Rosette Notes	SALTE							е (GFF dup vo					1		1 2 3 4
1 2 3 4 5	DEF		Rosette Notes	SALTE							В (GFF dup vo					1		1 2 3 4 5
1 2 3 4 5	DEF		Rosette Notes	SALT B							B (GFF dup vo					1		1 2 3 4 5 6
1 2 3 4 5 6 7 8	DEF		Rosette Notes	SALTE							B (GFF dup vo					1		1 2 3 4 5 6 7
1 2 3 4 5 6 7 8 9	DEF		Rosette Notes	SALTE							B	GFF dup vo					1		1 2 3 4 5 6 7 8 9
Nisk # - 1 2 3 4 5 6 7	DEF		Rosette Notes	SALTE								SFF dup vo					1		1 2 3 4 5 6 7 8

vessel Northwe	est Explorer 20)16	CRUISE ID	NW 1605			PROJECT & LE	:G (if	needed)		СТ	D FileNam	ne (None if o	data is live for	eed)	
CTD co		LATITUDE		LONGITUDE		GMT DATE	(note if n	not)_	GMT	Time S	iurfac	e Temp	BOTTOM DEPTH	STATION NUMBER	STI NAMI	
	DEG	MIN	DEG	MIN		DAY	мо	YR	HR	MIN	('	°C)	(m)			
14	1 56	58.058	139	52.682	w	15	AU G 1	6	18	49			3900	14	SEK	20
Sensor I	IDS (initially & s	wap-outs)		Weather:											CTD MAX. I	DEPTH
SBE type and S/															51	
PRESS S/N				COMMENT: Diffic	cult c	condition	s, factors tha	ıt may	y affect r	neasurem	ents	or aid pro	cessing		· · ·	
TEMP 1 &2 SNs	_															
COND 182 S/Ns	s															
FLUOR S/N																
20 (000 40) 00(4															
J2 (30E43) 3/N	_			- I												
02 (SBE43) S/N Transmiss S/N																
Transmiss S/N PAR S/N										Brilliamse van der Pri-Pri van der van van der Villender van van der Villender van van der Villender v						
Transmiss S/N											- made PPER - PPP defend				- Million de Marie (Marie Cité Philameleo de Pri	
Transmiss S/N PAR S/N O2 S8E42S/N	DEPTH	Rosette Notes	Н	lydro Team		GFF	>10 Large	T 6	EE dua vo	, >10 du	p vol	Phyto		Comments		Aliek
Transmiss S/N PAR S/N		Rosette Notes	H SALT BU	lydro Team Nut.Btl		GFF vol	>10 Large Vol	G	GFF dup vo	>10 du (larg		Phyto preserve		Comments samp		Nisk
Transmiss S/N PAR S/N O2 S8E42S/N	DEPTH	Rosette Notes				1.		G	iFF dup vo							Nisk
Transmiss S/N PAR S/N 02 SBE42S/N Nisk #	DEPTH	Rosette Notes				1.		G	iFF dup vo							Nisi
Transmiss S/N PAR S/N 02 SBE42S/N Nisk #	DEPTH	Rosette Notes				1.		G	iFF dup vo							1 2
Transmiss S/N PAR S/N 02 SBE42S/N Nisk #	DEPTH	Rosette Notes				1.		G	iFF dup vo							1
Transmiss S/N PAR S/N 02 SBE42S/N Nisk #	DEPTH	Rosette Notes				1.		G	FF dup vo							1 2 3
Transmiss S/N PAR S/N D2 SBE42S/N Nisk # 1 2 3 4	DEPTH	Rosette Notes				1.		G	FF dup vo							1 2 3
Transmiss S/N PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5	DEPTH	Rosette Notes				1.		G	SFF dup vo							1 2 3 4 5
Transmiss S/N PAR S/N O2 SBE42S/N Nisk # 1 2 3 4 5 6 7	DEPTH	Rosette Notes				1.		G	SFF dup vo							1 2 3 4 5
Transmiss S/N PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7	DEPTH	Rosette Notes				1.		G	SFF dup vo							1 2 3 4 5 6 7 8
Transmiss S/N PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9	DEPTH	Rosette Notes				1.		G	SFF dup vo							1 2 3 4 5 6 7 8
Transmiss S/N PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7	DEPTH	Rosette Notes				1.		G	SFF dup vo							1 2 3 4 5 6 7 8

vessel Northwes	t Explorer 2	016	CRUISE ID	NW 1605			PROJECT & L	EG (if	needed)		ст		ne (None if	data is live fo	eed)
CTD cons	` I	LATITUDE		LONGITUDE		GMT DATE	(note if	not)	GMT	Time	Surface	e Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	IMIN		DAY	МО	YR	HR	MIN	(°	C)	(m)		
15	57	15.137	N 140	12.148	w	15	AUG	1 6	22	01			4000	15	SEMIZE
Sensor ID	S (initially & :	swap-outs)		Weather:										10.4	CTD MAX. DEPTH
S8E type and S/N											(5)	6,81	5194		50
PRESS S/N TEMP 1 &2 SNs COND 1&2 S/Ns FLUOR S/N				COMMENT: Diff			5, 1401013 11		y and or n			, ald pre			
02 (SBE43) S/N Transmiss S/N PAR S/N							1,00								
02 SBE42S/N											 -				
Nisk#	DEPTH	Rosette Notes	ŀ	lydro Team		GFF	>10 Large		iFF dup vol		dup vol l	_		Comments	INlink
	DESIRED		SALT Btl	Nut.Btl		vol	Vol			(la	rge)	oreserve		samp	les
1															1
2						1.5 mily-2.								Police	2
3		TOPICSON IS													3
4								1 27					1 000		4
5															5
6			88		- 2										6
7															7
8			310		3 3 3 3 3	190	036			70 /0	3076 B			(5)	8
9		ALMAN (1944)				222									9
			8												10
10										_					
11															11

vessel Northwest	Expl	orer 20	16	CRUISE ID	NWIL	e 05		PROJECT & I	EG (i	needed)		CTD FileNar	ne (None if data	a is live feed)		
CTD conse CAST #	ec		LATITUDE	0.5	LONGITUD	: •E	GMT DATE	(note il	fnot)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN NAME	
	D	:G	MIN	DEG	М	IN	DAY	МО	YR	HR	MIN	(°C)	(m)			
10		57	0 5.574	140	44.2	34 w	16	AUG	16	01	32		4000	16	SEM	140
Sensor IDS	(initia	illy & sy	wap-outs)		Weather										CTD MAX. DE	PTH =
SBE type and S/N				V	li .										50	
TEMP 1 &2 SNs COND 1&2 S/Ns FLUOR S/N O2 (SBE43) S/N Transmiss S/N PAR S/N O2 SBE42S/N																
Nisk#		PTH	Rosette Notes	Н	ydro Team		GFF vol	>10 Large		GFF dup vol		dup vol Phyto arge) preserve		Comments		Nisk #
	DE	SIRED		SALT BU	Not.Btl		701	101	4		(10	arge) preserve		Sonip		
1			-				ļ		_							1
2									+					-		2
3							ļ						_			3
4							ļ									4
5																5
6														ļ		6
7											_			-		7
8						<u> </u>			_ _							8
9			,		[-					_					9
10																10
11				-		_										11
12			Ш				<u> </u>									12

vessel Northwes	st Explorer 20	016	CRUISE ID	NWILEO	5		ROJECT & LEG	(if needed)			ne (None if data		
CTD cons		LATITUDE		LONGITUDE		GMT DATE	(note if no	<i>t)</i> GMT	Time S	urface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	MO Y	R HR	MIN	(°C)	(m)		
(7	50	55, 855	N 141	16.548	w	16	4061	6 15	03		4000	17	SEM160
Sensor ID	S (initially & s	wap-outs)		Weather:									CTD MAX. DEPTH :
SBE type and S/N				1					_				51
PRESS S/N				COMMENT: D	ifficult o	conditions	, factors that	may affect m	easurem	ents or aid pr	ocessing		
TEMP 1 &2 SNs	_												
COND 182 S/Ns	_			_									
FLUOR S/N				-				-7-1					
O2 (SBE43) S/N Transmiss S/N	- t												
-	-								******			<u> </u>	
PAR S/N 02 SBE42S/N													
													
NE L a	DEPTH	Rosette Notes	н	ydro Team		GFF	>10 Large	GFF dup vol	>10 du	p vol Phyto		Comments o	rother Nisi
Nisk#	DESIRED		SALT Bit	Nut.Btl		vol	Vol	GFF dup voi	(large	e) preserve		sample	
1									_				
													1
2								***************************************				:	1 2
3													
											_		2
3													2
3 4													2 3 4
3 4 5											-		2 3 4 5
3 4 5 6													2 3 4 5 6
3 4 5 6 7													2 3 4 5 6 7
3 4 5 6 7 8													2 3 4 5 6 7 8
3 4 5 6 7 8 9													2 3 4 5 6 7 8

vessel Northwe	st Explo	orer 20	16	CRL	JISE ID	NWIGO	05		PI NI	ROJECT & LEG BS leg	(if needed)		TD FileNan	ne (None if dat	a is live feed)		
CTD cor CAST			LATITUDE			LONGITUDE	E	GM DA		(note if no	ot) GMT	Time	e, Surfa	ce Temp	BOTTOM DEPTH	STATION NUMBER	STN NAME	
	DE	EG	MIN		DEG	MIN	N	(DAY	MO Y	R HR	MIN		(°C)	(m)			
18	,	56	46.285	N (در (48.2	37	_N 1	(A	- V G 1	618	54			4000	018	SEM	7/80
Sensor II	DS (initia	ally & sv	vap-outs)			Weather:		=	a								CTD MAX. DE	EPTH =
SBE type and 5/1	N																	
PRESS S/N						COMMEN	IT: Difficu	it con	ditions	, factors that	may affect	measu	rements	or aid pr	ocessing			
TEMP 1 &2 SNs																		
COND 182 S/Ns																		
FLUOR S/N									31									
O2 (SBE43) S/N																		
Transmiss S/N																		
Transmiss S/N PAR S/N		-																
							Lime (II)	EU %	5 (0)					o.	70 16			
PAR S/N												-			5 %			
PAR S/N 02 SBE42S/N	DEF	РТН	Rosette Notes		Ну	ydro Team			GFF	>10 Large	GFF dun v		O dup voi			Comments		Nisk
PAR S/N		PTH SIRED	Rosette Notes	SALT		ydro Tearn Nut.Btl			GFF vol	>10 Large Vol	GFF dup v			Phyto preserve		Comments of sample		Nisk #
PAR S/N 02 SBE42S/N			Rosette Notes	SAL1							GFF dup v							
PAR S/N O2 SBE42S/N Nisk #			Rosette Notes	SAL1							GFF dup v							#
PAR S/N 02 S8E42S/N Nisk #			Rosette Notes	SAL1							GFF dup v							1
PAR S/N 02 SBE42S/N Nisk #			Rosette Notes	SAL1							GFF dup v							1 2
PAR S/N 02 SBE42S/N Nisk # 1 2 3			Rosette Notes	SAL1							GFF dup v							1 2 3
PAR S/N 02 S8E42S/N Nisk # 1 2 3 4			Rosette Notes	SALT							GFF dup v							1 2 3 4
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5			Rosette Notes	SAL1							GFF dup v							# 1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6			Rosette Notes	SALT							GFF dup v							# 1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7			Rosette Notes	SALT							GFF dup v							# 1 2 3 4 5 6 7
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8			Rosette Notes	SALT							GFF dup v							# 1 2 3 4 5 6 7 8
PAR S/N O2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9			Rosette Notes	SALT							GFF dup v							# 1 2 3 4 5 6 7 8

vessel Northwest i	Explorer 20	016	CRUISE ID	NW	1605		PROJECT & L	.EG (if	needed)			me (None if data		
CTD consec	:	LATITUDE		LONGITUD	E	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)		
19	56	36.779	N 192	20.2	49 w	16	AUG	1 6	22	36		4500	19=	SEMLOO
Sensor IDS	(initially & s	wap-outs)		Weather	•		y							CTD MAX. DEPTH =
SBE type and S/N									30					51
PRESS S/N TEMP 1 &2 SNs COND 1&2 S/Ns FLUOR S/N O2 (SBE43) S/N Transmiss S/N PAR S/N O2 SBE42S/N				COMME	VI: Dimeni	Condition	is, iaciois ii	iat ilia	y arrect		ements or aid p	rocessing		
Misla M	DEPTH	Rosette Notes	ŀ	lydro Team		GFF	>10 Large		SFF dup vo	, >10	dup vol Phyto		Comments	or other Nisk
Nisk#	DESIRED		SALT Bil	Nut.81		vol	Vol	,	orr dup vu	, (I	arge) preserve		sampl	
1	*************													1
2														2
3									*********			_		3
4														4
5												_		5
6														6
7											************			7
8	8							+						8
9						1							-	9
10			l.					\perp		_				10
11						ļ								11
12														12

vessel Northw	est Exp	lorer 20	116	CF	RUISE ID	Nulle	05			PROJECT &	LEG (i	f needed -)	С	TD FileNan	ne (None if dat) 160507	ta is live feed)		
CTD co			LATITUDE)	LONGITUDI	E .		GMT DATE	(note i	f not)	GMT	Time	Surfac	ce Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	C	DEG	MIN		DEG	MII	N		DAY	МО	YR	HR	MIN	(°C)	(m)			190
2	0	SU	54.442	N	14/2	42.6	,74	w	17	AUG	1 0	01	57			4300.	20	SEO	190
Sensor	IDS (initi	ially & st	wap-outs)			Weather:	1											CTD MAX. D	EPTH =
SBE type and S	S/N																	50	2
PRESS S/N		-				COMMEN	IT: Diffic	ult d	condition	s, factors t	hat ma	y affect	measur	rements	or aid pr	ocessing	-		
TEMP 1 &2 SN	ls																	**	
COND 182 SA	is																		
FLUOR S/N																			
02 (SBE43) S/I	N																		
Transmiss S/N																			
Transmiss S/N PAR S/N D2 S8E42S/N							, , , , , , , , , , , , , , , , , , ,												
PAR S/N		V 1-1 1 - Alba 2 40 401												· · · · · · · · · · · · · · · · · · ·					
PAR S/N		ЕРТН	Rosette Notes			ydro Team			GFF	>10 Larg	e (GFF dup v) dup vol			Comments		Nisk
PAR S/N 02 SBE42S/N	D	EPTH ESIRED	Rosette Notes	SA	LT Bu	lydro Team			GFF vol	>10 Larg	е	GFF dup v			Phyto preserve		Comments		Nisk #
PAR S/N 02 SBE42S/N	D		Rosette Notes	SA	- 1						а (GFF dup v		large)					
PAR S/N D2 58E42S/N Nisk #	D		Rosette Notes	SA	- 1						e .(GFF dup v							#
PAR S/N D2 SBE42S/N Nisk #	D		Rosette Notes	SA	- 1						е (GFF dup v		large)					1
PAR S/N 02 SBE42S/N Nisk #	D		Rosette Notes	SA	- 1						в	GFF dup v		large)					1 2
PAR S/N 02 SBE42S/N Nisk #	D		Rosette Notes	SA	- 1						в	GFF dup v		large)					1 2 3
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4	D		Rosette Notes	SA	- 1						в	GFF dup v		large)					1 2 3 4
PAR S/N 02 SBE42S/N Nisk #	D		Rosette Notes	SA	- 1						e(GFF dup v		large)					# 1 2 3 4 5 5
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5	D		Rosette Notes	SA	- 1						е .(GFF dup v		large)					# 1 2 3 4 5 6
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7	D		Rosette Notes	SA	- 1						8	GFF dup v		large)					# 1 2 3 4 5 6 7
PAR S/N 02 SBE42S/N Nisk #	D		Rosette Notes	SA	- 1						е	GFF dup v		large)					# 1 2 3 4 5 6 7 8
PAR S/N D2 SBE42S/N Nisk #	D		Rosette Notes	SA	- 1						е .(GFF dup v		large)					# 1 2 3 4 5 6 7 8 9

)														
vessel Northwest	Explorer 20	016	CRUISE ID	NWILE	05		PROJECT & LE	G (if	needed)		CTD FileNar <i>N</i> い)	ne (None if dat	a is live feed)		
CTD conse	С	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)		17-0	2
21	57	03.998	N 142	10.30	7 W	17	AUG.	6	15	03		4300	21	SEOITA	"
Sensor IDS	(initially & s	wap-outs)		Weather:									-	CTD MAX. DEPTH =	
SBE type and S/N				t											1
PRESS S/N				COMMENT	: Difficult	conditio	ns, factors the	it ma	y affect n	neasure	ements or aid p	ocessing]
TEMP 1 82 SNs															4
COND 1&2 S/Ns															4
FLUOR S/N	_			-											
02 (SBE43) S/N				-								<u> </u>			-
Transmiss S/N	_			-											v
PAR S/N O2 SBE42S/N	_														-
															1
Nisk#	DEPTH	Rosette Notes	H	ydro Team		GFF	>10 Large	G	FF dup vol		dup vol Phyto		Comments		1
I II I	DESIRED		SALT Bu	Not.Btl		lov	Vol		iii dup voi	(la	rge) preserve		sample	es #	
1														1	
2											!			2	i
3														3	
4														4	1
5								\top						5	
6	************					1								6	1
7								\top						7	1
8					*******	***********						***************************************		8	1
9														9	1
10														10	
11									_					11	
12														12	

vessel Northwest	: Explorer	2016	CRUISE ID	NWIL	,05		PROJECT & LE	G (if ne	eeded)			ne (None if data			
CTD conse		LATITUDE		LONGITUDE		GMT DATE	(note if n	ot) GN	мт	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STI NAME	
	DEG	MIN	DEG	MIN		DAY	МО	YR	HR	MIN	(°C)	(m)		1	
27	57	13.739	N 141	37.86	2 W	17	AVGI	6	8 1	6	·	4250	22	SEO 1.	50
Sensor IDS	(initially &	swap-outs)		Weather:										CTD MAX. DI	EPTH =
SBE type and S/N										•				50	
PRESS S/N				COMMENT	: Difficult	condition	s, factors tha	it may a	affect me	easure	ments or aid pr	ocessing			
TEMP 1 &2 SNs															
COND 182 S/Ns															
FLUOR S/N						······································									
02 (SBE43) S/N															
Transmiss S/N															
PAR S/N															
O2 SBE42S/N															
Nisk #	DEPTH	Rosette Notes	Н	ydro Team		GFF	>10 Large	GFF	dup vol		dup vol Phyto		Comments of		Nisk
	DESIRED		SALT Bil	Nut.Btl		vol	Vol			(la	rge) preserve		sample	s	*
1			1												1
2								-		_					2
3										ļ					3
4										-		_			4
5									****			_	.===		5
6				+			<u> </u>	-	<u>_</u>	-					6
8				•											7 8
9							_	_					<u> </u>		9
10	••••••									·					10
11															11
12							****			1					12

vessel Northwe	est Explorer 20)16	CRUISE ID	NWI	60	5	PROJECT & LEG	G (if needed)		ne (None if dat		1	
CTD cor		LATITUDÉ		LONGITUDE		GMT DATE	(note if no	ot) GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/II	
	DEG	MIN	DEG	MIN		DAY	мо у	R HR	MIN	(°C)	(m)	<u> </u>		
23	57	23.245	N 141	05.490	w	17	AUGI	6 21	22		4100	23	SE013	0
Sensor I	DS (initially & s	wap-outs)		Weather:		-	,						CTO MAX. DEPT	TH =
SBE type and S/I	N												50	
PRESS S/N				COMMENT:	Difficult	condition	s, factors that	may affect	measu	rements or aid p	ocessing			
TEMP 1 &2 SNs														
COND 182 S/Ns														
FLUOR S/N														
O2 (SBE43) S/N														
Transmiss S/N	_													
				- 1									-	
PAR S/N														
PAR S/N 02 SBE42S/N	- 1 -								9					
				-							PP (200 - 20			
O2 SBE42S/N	DEPTH	Rosette Notes	Н	lydro Team		GFF	>10 Large	GFF dup v		O dup vol Phyto		Comments		Nisk
	DEPTH DESIRED	Rosette Notes	H SALT Bil	lydro Team		GFF vol	>10 Large Vol	GFF dup v		O dup vol Phyto (large) preserve		Comments of sample		Nisk #
O2 SBE42S/N		Rosette Notes				JI .		GFF dup v					es ·	
O2 SBE42S/N		Rosette Notes				JI .		GFF dup v					es.	#
02 S8E42S/N Nisk #		Rosette Notes				JI .		GFF dup v					1	1
02 SBE42S/N Nisk #		Rosette Notes				JI .		GFF dup v					2	1 2
02 SBE42S/N Nisk #		Rosette Notes				JI .		GFF dup v					2	1 2 3
02 SBE42S/N Nisk # 1 2 3 4 5						JI .		GFF dup					2	# 1 2 3 4 5
02 SBE42S/N Nisk # 1						JI .		GFF dup v					2	# 1 2 3 4 5 6
02 SBE42S/N Nisk # 1						JI .		GFF dup v					2 3 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	# 1 2 3 4 5 6
02 SBE42S/N Nisk # 1						JI .		GFF dup v					2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	# 1 2 3 4 5
02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8						JI .		GFF dup v					2	# 1 2 3 4 5 6 7 8
02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9						JI .		GFF dup v					2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	# 1 2 3 4 5 6 7 8

vessel <mark>Northwest E</mark>	xplorer 20	16	CRUISE ID	NW	1605	5		PROJECT & NBS leg	LEG (if	f needed) -)	CTD FileNa	me (None if dat	a is live feed)		
CTD consec CAST #		LATITUDE		LONGIT	UDE		GMT DATE	(note i	f not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	DEG		MIN		DAY	МО	YR	HR	MIN	(°C)	(m)			
24	57	32.814	N 140	32.	618	w	18	AUG	1 @	0 6	Llo		4000	24	560	119
Sensor IDS (i	nitially & sv	wap-outs)		Weath	ier:										CTD MAX. D	ЕРТН
SBE type and S/N															50	
PRESS S/N				COMM	ENT: Diff	icult	condition	s, factors t	hat ma	y affect	measur	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	_															
Total Control							TTTTTT OF the STATE STATE AND ADDRESS OF THE STATE STA									
PAR S/N							PPP Strain Fritz F									
PAR S/N	DEPTH	Rosette Notes		lydro Team	1		GFF vol	>10 Larg	е (SFF dup vo		dup vol Phyto		Comments		Nis #
PAR S/N D2 SBE42S/N	DEPTH DESIRED	Rosette Notes	H SALT Btl	lydro Team	3		GFF vol	>10 Larg Vol	е (SFF dup vo		dup vol Phyto arge) preserve		Comments		
PAR S/N D2 SBE42S/N		Rosette Notes		1	1				e G	GFF dup vo						
PAR S/N D2 SBE42S/N		Rosette Notes		1					e G	GFF dup vo						1
PAR S/N 22 SBE42S/N Nisk #		Rosette Notes		1					e o	GFF dup vo						1 2
PAR S/N D2 SBE42S/N Nisk #		Rosette Notes		1					е (GFF dup vo						1 2
PAR S/N 22 SBE42S/N Nisk #		Rosette Notes		1					e	GFF dup vo						1
PAR S/N 02 SBE42S/N Nisk #		Rosette Notes		1					е с	SFF dup vo						1 2 3 4
PAR S/N 22 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes		1					е (GFF dup vo						1 2 3 4 5
PAR S/N 22 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes		1					е (SFF dup vo						1 2 3 4 5
PAR S/N 22 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes		1					е с	SFF dup vo						1 2 3 4 5
PAR S/N 22 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes		1					е (GFF dup vo						# 1 2 3 4 5
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7		Rosette Notes		1					е (SFF dup vo						# 1 2 3 4 5 6 7 8
PAR S/N 22 SBE42S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes		1					e (SFF dup vo						# 1 2 3 4 5 6
PAR S/N 22 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9		Rosette Notes		1					е (SFF dup vo						# 1 2 3 4 5 6 7 8

VESSEL Northwes t	Explorer 20	16	CRUISE ID	NWIL	205		PROJECT & L.	EG (if ne	eded)		CTD FileNar	ne (None if dat	a is live feed)			
CTD conse		LATITUDE		LONGITUDE		GMT	(note if	not) GN	ΛΤ	Time Surf	ace Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/II		
	DEG	MIN	DEG	11M	1	DAY	МО	YR	HR	MIN	(°C)	(m)				
25		24.711	N 139	39,	542	w 18	AUG	1 60 1	50	5		4,000	25	SEMIO		
Sensor IDS	6 (initially & s	wap-outs)		Weather:		·								CTD MAX. DEPTI		
SBE type and S/N														50		
PRESS S/N	11			COMMEN	T: Diffic	ult conditio	ns, factors th	at may a	ffect m	easuremen	ts 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																
O2 SBE42S/N																
	DEPTH	EPTH Rosette Notes 1			Hydro Team			crr	المديدة	>10 dup v	Phyto	Comments	or other N			
Nisk #	DESIRED		SALT Bti	Nut.Btl		vol	Vol	GFF	dup vol	(large)	preserve		samp	les		
1														1		
2			ij.											2		
3					<u> </u>						_	_		3		
4										<u> </u>				4		
5														5		
6					-					-		-				
7					1					1				7		
		-														
8																
9									,							
9									^					\$ S		
9									,					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

VESSEL Northwest E	xplorer 20	016		CRUISE ID	NW16	05		PROJECT & L	.EG (i	f needed) -			ame (None if da			_
CTD consec CAST #		LATITUDE		_	LONGITUD	Ē	GMT DATE	(note if	not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	Ш	DEG	MI	N -	DAY	МО	YR	HR	MIN	(°C)	(m)			
26	57	35,012	N	139	07.6	27 W	18	AUR	1 6	18	06		3900	26	SEM	4(870
Sensor IDS (nitially & s	wap-outs)			Weather:					_					CTD MAX. D	EPTH =
SBE type and S/N															56)
PRESS S/N TEMP 1 &2 S/Ns COND 1&2 S/Ns FLUOR S/N 02 (SBE43) S/N Transmiss S/N PAR S/N 02 SBE42S/N	DEPTH DESIRED	Rosette Notes		H SALT Btl	COMMEN	IT: Difficult	GFF	>10 Large Vol		ger dup vol	>10	dup vol Phyto		Comments		Nisk #
1			1													1
2																2
3																3
4		•••		************	***					******				•••••••		4
5									\top							5
6		***************************************		*********												6
7									\top							7
8																8
9						1			+		 -			-		9
10										***********						10
					+											11
11	•••••												,			1-
12																12

VESSEL Northwest Explorer 2016			CRUISE I	Nho	·	PROJECT & NBS leg	LEG (if	needed)		CTD FileName (None if data is live feed)						
CTD cons	I	LATITUDE		LONGITUDI	E	GMT DATE	(note i	if not)	GMT	Time	Surfac	ce Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/	
	DEG	MIN	DEG	MII	N	DAY	МО	YR	HR	MIN	(°C)	(m)			
27	57	44.041	N (38	35.	643 W	18	AUG	1	21	16		j	3600	27	SEM	160
Sensor IDS	6 (initially & s	wap-outs)		Weather:					•						CTD MAX. DEP	тн =
S8E type and S/N															50	,
FLUOR S/N 02 (SBE43) S/N Transmiss S/N																
		V				1										
	DEPTH DESIRED	Rosette Notes	SALT BU	Hydro Team		GFF vol	>10 Larg	e (GFF dup vo) dup vol arge)	Phyto preserve		Comments		Nisk #
PAR SIN 02 SBE42SIN Nisk #		Rosette Notes		1		-		e e	GFF dup vo						oles	
02 \$BE42S/N		Rosette Notes		1		-		je (GFF dup vo						oles	#
02 SBE42S/N Nisk #		Rosette Notes		1		-		е	GFF dup vo						oles	1
02 SBE42S/N Nisk #		Rosette Notes		1		-		e (GFF dup vo						oles	1 2
02 SBE42S/N Nisk #		Rosette Notes		1		-		ne (SFF dup vo						oles	1 2 3
02 SBE42S/N Nisk #		Rosette Notes		1		-		e (GFF dup vo						oles	1 2 3 4
02 SBE42S/N Nisk #		Rosette Notes		1		-		je (GFF dup vo						oles	# 1 2 3 4 5
02 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes		1		-		je (SFF dup vo						oles	# 1 2 3 4 5
Nisk # 1 2 3 4 5 6 7		Rosette Notes		1		-		e (GFF dup vo						oles	# 1 2 3 4 5 6 7
Nisk # 1 2 3 4 5 6 7 8 9 9		Rosette Notes		1		-		je (GFF dup vo						oles	# 1 2 3 4 5 6 7
1 2 3 4 5 6 7 8 8		Rosette Notes		1		-		je (GFF dup vo						oles	# 1 2 3 4 5 6 7 8 9

VESSEL Northwest Ex	plorer 20	016	CRUISE ID	NW160	5		PROJECT & LEG	G (if needed)	-		ne (None if data			
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE	(note if no	ot) GMT	Time	Surface Temp		STATION NUMBER	STN. NAME/	
	DEG	MIN	DEG	MIN		DAY	MO Y	'R HR	MIN	(°C)	(m)			
28	57	55,037 N	138	03.157	w	19	AUG 1	600	3 3		1634	28	SEMO	40
Sensor IDS (in	itially & s	wap-outs)		Weather:									CTD MAX. DEF	P1H =
SBE type and S/N													51	
PRESS S/N TEMP 1 &2 S/Ns COND 1 &2 S/Ns FLUOR S/N O2 (SBE43) S/N Transmiss S/N PAR S/N							5			ements or aid pi				
														- B
	DEPTH	Rosette Notes	l H	vdm Team		CEE	101		. 10	dun vai Dhuba	1	Comments		
Nisk#	DEPTH DESIRED	Rosette Notes	H SALT BII	ydro Team Nut.8tl		GFF	>10 Large Vol	GFF dup vol		dup vol Phyto preserve		Comments o		Nisk #
Nisk#		Rosette Notes		1 11				GFF dup vol						
Nisk#		Rosette Notes		1 11				GFF dup vol						#
Nisk#		Rosette Notes		1 11				GFF dup vol						1
Nisk# 1 2		Rosette Notes		1 11				GFF dup vol						1 2
Nisk #		Rosette Notes		1 11				GFF dup vol						1 2 3
Nisk# 1 2 3 4		Rosette Notes		1 11				GFF dup vol						1 2 3 4
Nisk# 1 2 3 4 5 5		Rosette Notes		1 11				GFF dup vol						1 2 3 4 5
Nisk # 1 2 3 4 5 6		Rosette Notes		1 11				GFF dup vol						# 1 2 3 4 5
Nisk # 1 2 3 4 5 6 7		Rosette Notes		1 11				GFF dup vol						# 1 2 3 4 5 6
1 2 3 4 5 6 7 8 8		Rosette Notes		1 11				GFF dup vol					s	# 1 2 3 4 5 6 7 8
Nisk # 1 2 3 4 5 6 7 8 9		Rosette Notes		1 11				GFF dup vol					S	# 1 2 3 4 5 6 7 8 9