VESSEL Northwest I	xplorer 20	016	CRUISE ID	NW160	4		PROJECT &	LEG (if	needed)	,	TD FileNar	me (None if	data is live fee	d)	
CTD consec CAST #		LATITUDE		LONGITUDE	,	GMT DATE	(note i	if not)	GMT	Time Surfa	се Тетр	BOTTOM DEPTH	STATION NUMBER	STI NAME	
	DEG	MIN	DEG N	MIN	w	DAY	МО	YR 1 4	HR	MIN	(°C)	(m)	18		
Sensor IDS (initially & s	wap-outs)		Weather:			, , , , , , , , , , , , , , , , , , ,						1, 0	CTD MAX. D)EPTH
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				COMMENT: Di	//) (s, factors t	nat ma	y affect me	asurements	or aid pr	ocessing		le see	
Nisk #	DEPTH DESIRED	Rosette Notes	H _i	ydro Team		GFF vol	>10 Larg	e (GFF dup vol	>10 dup vo	Phyto preserve		Comments or samples		Nisk
1	DESINES	F	OAL! DI	Nucuu		- - - - - - - - - -						<u> </u>			1
2				8.1											2
4												_			3
5							+								5

VESSEL Northwest	Explorer 20	016	CRUISE	D NWI	604		PROJECT & LI NBS leg	EG (if	needed)		С		ne (None if	data is live fe	ed)	
CTD conse		LATITUDE		LONGITUD	DE	GMT DATE	(note if	not)	GMT	Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	STI	
	DEG	MIN	DEG	м	IIN	DAY	МО	YR	HR	MIN	(°C)	(m)			
014			N		w	10	AUG	1 6						016	SE	615
Sensor IDS	6 (initially & s	wap-outs)		Weather	•										CTD MAX. E	DEPTH :
BE type and S/N								-								
PRESS S/N		- 3			1	condition	ns, factors the	at may	y affect r	neasur	ements	or aid pro	ocessing			
TEMP 1 &2 SNs				1	10 (-	
COND 182 S/Ns	_				10 1)(M	GO						100000		-	
FLUOR S/N	-				Indic	Jon!					1000					
)2 (SBE43) S/N	_				Nodic	,										
ranemies C/N				1	A Processing	4										
	· -	*******		_	A Broth	*										
PAR S/N					J g corr	*										
PAR S/N		200	2260 10		4 9 000	,										
Transmiss S/N PAR S/N 02 SBE42S/N Nisk #	DEPTH	Rosette Notes		Hydro Team	1 grott	GFF	>10 Large	G	GFF dup vo	M	dup vol			Comments		Nisk
PAR S/N D2 SBE42S/N	DEPTH DESIRED	Rosette Notes	SALT Bu				>10 Large Vol	G	GFF dup vo	M		Phyto preserve		Comments sample		Nisk
PAR S/N D2 SBE42S/N		Rosette Notes	SALT BU	Hydro Team		GFF		G	GFF dup vo	M						Nisk
PAR S/N 22 SBE42S/N Nisk #		Rosette Notes	SALT BU	Hydro Team		GFF		G	GFF dup vo	M						
PAR S/N 02 SBE42S/N Nisk #		Rosette Notes	SALT Bu	Hydro Team		GFF		G	GFF dup vo	M						1
Nisk # 1 2 3		Rosette Notes	SALT Bti	Hydro Team		GFF		G	GFF dup vo	M						1 2
PAR S/N 02 SBE42S/N Nisk #		Rosette Notes	SALT Bu	Hydro Team		GFF		G	GFF dup vo	M						1 2 3
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes	SALT BU	Hydro Team		GFF		G	GFF dup vo	M						1 2 3 4
Nisk # 1 2 3 4 5 6 6		Rosette Notes	SALT BU	Hydro Team		GFF		G	GFF dup vo	M						1 2 3 4 5
Nisk # 1 2 3 4 5 6 7 7		Rosette Notes	SALT BU	Hydro Team		GFF		G	GFF dup vo	M						1 2 3 4 5
PAR S/N PAR S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes	SALT BU	Hydro Team		GFF		G	GFF dup vo	M						1 2 3 4 5 6
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4		Rosette Notes	SALT BU	Hydro Team		GFF		G	GFF dup vo	M						1 2 3 4 5 6 7 8
PAR S/N D2 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9		Rosette Notes	SALT Bti	Hydro Team		GFF		G	GFF dup vo	M						1 2 3 4 5 6 7 8

VESSEL Northwe	st Explorer 2	016	CRUISE IE)			PROJECT & L	EG (if	f needed) -		CTD FileNa	me (None if	data is live fe	ed)	
CTD cor CAST		LATITUDE		LONGITUDE		GMT DATE	(note if	not)	GMT	Time Sur	face Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	DEG	MI	V	DAY	МО	YR	HR	MIN	(°C)	(m)			
			N		1	w	AUG	1 6					15	SE	670
Sensor II	OS (initially & :	swap-outs)		Weather:							-			CTD MAX.	
SBE type and S/N							-								
PRESS S/N				COMMEN	T: Difficu	It conditio	ns, factors th	at may	y affect me	easuremen	ts or aid pr	ocessina		<u> </u>	
TEMP 1 &2 SNs				7.	11 -1-	1	1.	•							
COND 1&2 S/Ns				MS)	1 4	. 1001	010	-							
FLUOR S/N				П	4			_/							
02 (SBE43) S/N	_				NO	(1)	NIGO								
Transmiss S/N							Ngo								
PAR S/N							U								
D2 SBE42S/N															
Nisk#	DEPTH	Rosette Notes	Н	ydro Team		GFF	>10 Large		GFF dup vol	>10 dup	ol Phyto		Comments of	r other	
THISIC II	DESIRED		SALT Btl	Nut.Btl		vol	Vol		orr dup voi	(large)	preserve		sample	s	Nisk #
1															1
2		1							********						2
2											1				3
3					 							-{			
							- 1								4
4								+		 		 			
5				***								_			5
4										-					5
5															
5 6															

CTD consec CAST # LATITUDE		DEG MIN DEG N N Weathe
Sensor IDS (initially & swap-outs) Weather: COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: DIFFICULT CO		tially & swap-outs) Weathe
Sensor IDS (initially & swap-outs) Weather: ###ESS SN COMMENT: Difficult conditions, factors that may affect measurements or aid processing ###################################	(init	tially & swap-outs) Weathe
COMMENT: Difficult conditions, factors that may affect measurements or aid processing NO Fast Kitty CND 182 SNs CND 182 SNs RUOR SN NO Fast Kitty CREATING AN AND AND AND AND AND AND AND AND AND	(init	COMME
DEPTH Rosette Notes Hydro Team DESIRED SALT Bul Nul. Bul DESIRED SALT Bul Nul. Bul Comment Salt Salt Salt Salt Salt Salt Salt Sal		COMME
2	_	
3 4 5		
4 5		
5		
6		
7	· ·	
8	E-10.0	
9		
10		
11		

_															
VESSEL Northwe	est Explorer 2	2016	CRUISE ID	NW16	04		PROJECT &	LEG (i	f needed) -			me (None if		eed)	
CTD cor	#	LATITUDE		LONGITUDE		GMT DATE	(note i	if not)	GMT	Time Su	rface Temp	BOTTOM DEPTH	STATION NUMBER	ST	
	DEG	MIN 4 - 222	DEG	MIN		DAY	MO	YR /	HR	MIN	(°C)	(m)	413		
0013	56	45.277	136	08,91	7 N	/ /	AUG	1 9	14	59 1	5,4	1526	\$13	SET	20
Sensor II	DS (initially &	swap-outs)		Weather:			-				,			CTD MAX. I	DEPTH =
SBE type and S/I	N										 -			200)
PRESS S/N							ns, factors t	hat ma	y affect m	neasureme	nts or aid p	rocessing		1 7200	
TEMP 1 &2 SNs				Bover	to	UAT	=								
COND 182 S/Ns	\			5	1 - 6										
FLUOR S/N	УП III <u> </u>												4-14-1		
O2 (SBE43) S/N	_			<u> </u>											
Transmiss S/N	_											-		-	
PAR S/N 02 SBE42S/N	_					***									
DE GOLVEGIN															
	DEPTH	Rosette Notes	Н	ydro Team		GFF	>10 Larg	e		>10 dup	vol Phyto		Comments	or other	
Nisk #	DESIRED		SALT Btl	Nut.Btl		vol	Vol	9	GFF dup vol	(large)	preserve		sampl		Nisk #
1											İ	<u> </u>			1
2															2
3												<u> </u>			3_
4												-			
5				+ +				+		-					4
6	***************************************											-			5
				 				`			-				6

VESSEL Northwest I	Explorer 20	016	CRUISE ID	NW1604		PROJECT & NBS leg	LEG (if	f needed) -)	СТ		ne (None if c	lata is live fed	ed)	
CTD consec	I	LATITUDE		LONGITUDE	GMT DATE	(note	f not)	GMT	Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	STI NAMI	
	DEG	MIN	DEG	MIN	DA		YR	HR	MIN	('	°C)	(m)			
\$12	56	55.06(136	18.441	w 8	AUG	1 6	23	04	15	3	1498	012	SE	EZZ
Sensor IDS (initially & st			Weather: Ha	mge -	*								CTD MAX. 0	DEPTH =
SBE type and S/N					A			,						50	4
PRESS S/N				COMMENT: Diffic	ult condi	ions, factors t	hat ma	y affect	measure	ements	or aid pro	ocessing			
TEMP 1 &2 SNs			1	NO Bon	190_										
COND 182 S/Ns	· <u> </u>	1 1		10-	J										
FLUOR S/N		11011													
02 (SBE43) S/N	_		/								<u> </u>				
Transmiss S/N	-														
PAR S/N O2 SBE42S/N	· -									110000					
OC OOL TEUR															
Nisk #	DEPTH	Rosette Notes	Ну	dro Team		FF >10 Larg	е	GFF dup v	nı ı	dup vol			Comments		Nisk #
INISK #	DESIRED		SALT Btl	Nut.Btl		ol Vol			(1	arge)	preserve		sample	es	
1												T			1
2															2
-	_						-+					<u> </u>	1		3
2 #		H	I												4
3															_
4					_			· · · · · · · · · · · · · · · · · · ·	-						_
												_			5
4															5_6
5															
5															6

											-			
vessel Northwes	st Explorer 20	016	CRUISE ID	NW160	4 _		PROJECT & LI	EG (if n	needed)		CTD FileNa	me (None if	data is live feed)	
CTD cons		LATITUDE		LONGITUDE		GMT DATE	(note if	not) G	SMT	Time S	urface Temp	BOTTOM DEPTH	STATION NUMBER N	STN. AME/ID
	DEG	MIN	DEG	MIN		DAY	МО	YR	HR	MIN	(°C)	(m)		
\$11	57	03.220	N 136	27.28	80 w	8	AUG	1 6	20 4	t8 1	5,3	1594	\$11 SE	FZØ
Sensor ID	S (initially & s	wap-outs)		Weather:	Vara	ast	-							AX. DEPTH =
SBE type and S/N													0	0
PRESS S/N		1		COMMENT:				at may	affect me	easureme	ents or aid pr	ocessing		
TEMP 1 &2 SNs		104	1	T N	00 5	Song	0							
COND 1&2 S/Ns														
FLUOR S/N		101												
02 (SBE43) S/N														
Transmiss S/N														2
PAR S/N	-													
02 SBE42S/N														
			5-42			1								7876
Nisk#	DEPTH	Rosette Notes	ŀ	lydro Team		GFF vol	>10 Large Vol	GF	F dup vol	>10 du (large	p voi Phyto e) preserve		Comments or oth	er Nisk #
	DESIRED		SALT Btl	Nut.Btl		VOI	VOI	+		(laigh	e) preserve		Jampios	
1														1
2								\bot						2
3														3
4	SI					100	7-05							4
5						ļ								5
6	200.1													6
7										ļ				7
8														8
9						ļ								9
4 1122													1	
10			-						13:					10

VESSEL Northw	est Explo	orer 20	16	CRUISE ID	NW160)4		ROJECT & LEG	(if needed)		CTD FileNa	me (None if o	data is live feed	d)
CTD c		L	ATITUDE		LONGITUDE		GMT DATE	(note if no	t) GMT	Time Su	face Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DE	G	MIN	DEG	MiN		DAY	MO Y		MIN	(°C)	(m)		
Ø1	0	57	21.907	N 135	47.24	10 w	7	AUG 1	4 16	47 1	1.9	2/3	\$10	SEG-8.8
Sensor	IDS (initia	illy & sw	ap-outs)		Weather:	Ŧ	06	`		'				CTD MAX. DEPTH =
SBE type and							(52m
PRESS S/N		-			COMMENT:	: Difficult	condition	s, factors that	may affect n	neasureme	nts or aid pr	ocessing		
TEMP 1 82 SI	Ns	180			n\ c	, B	ongo)						
COND 182 S/	'Ns		1 1/		70-0									
FLUOR S/N		20	1114				-							
02 (S8E43) S	Z/N	1000	10											
			1 1								*			
Transmiss S/N	V		11/											
Transmiss S/N PAR S/N	V			-V62			2-7-2							
				-						-		100000000000000000000000000000000000000		
PAR S/N		РТН	Rosette Notes		łydro Team		GFF	>10 Large		, >10 dup	vol Phyto		Comments or	other
PAR S/N	DEF	PTH SIRED	Rosette Notes	SALT Bil	lydro Tearn		GFF vol	>10 Large Vol	GFF dup vo	>10 dup	vol Phyto preserve		Comments or samples	Mick #
PAR S/N 02 SBE42S/N	DEF		Rosette Notes						GFF dup va					Mick #
PAR S/N 02 SBE42S/N Nisk # -	DEF		Rosette Notes						GFF dup vo					Nisk #
PAR S/N 02 S8E42S/N	DEF		Rosette Notes						GFF dup vo					Nisk #
PAR S/N 02 SBE42S/N Nisk # -	DEF		Rosette Notes						GFF dup vo					Nisk #
PAR S/N 02 SBE42S/N Nisk # - 1 2 3 4	DEF		Rosette Notes						GFF dup va					1 2 3
PAR S/N 02 SBE42S/N Nisk # - 1 2 3 4 5	DEF		Rosette Notes						GFF dup va					1 2 3 4
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5	DEF		Rosette Notes						GFF dup va					Nisk # 1 2 3 4
PAR S/N 02 SBE42S/N Nisk # - 1 2 3 4 5	DEF		Rosette Notes						GFF dup va					Nisk # 1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7	DEF		Rosette Notes						GFF dup va					Nisk # 1 2 3 4 5 6 7
PAR S/N 02 S8E42S/N Nisk # - 1 2 3 4 5 6 7 8	DEF		Rosette Notes						GFF dup va					Nisk # 1 2 3 4 5 6 7 8
Nisk # - 1 2 3 4 5 6 7 8 9	DEF		Rosette Notes						GFF dup vo					Nisk # 1 2 3 4 5 6 7 8 9

vessel North		olorer 20	16	CRUISE ID	1604			PROJECT & LEG	(if needed)		СТ	D FileNam	ne (None if d	data is live fee	ed)	
CA		DEG	LATITUDE MIN	DEG	LONGITUDE		GMT DATE DAY	(note if not		Time MIN		e Temp		STATION NUMBER	STN NAME	/ID
90	59	57	17.669	N 135	35.50	07 W	7	AUG 1	6 15	06	12.	4	58.5	Ø Ø 9	SIEC	35/5
		tially & sv	vap-outs)		Weather:	Han	15								CTD MAX. DI	EPTH =
SBE type and	d S/N			\							monte	or aid pro	caesing	<u>. </u>		
PRESS S/N		-//	/	-	COMMENT:	Dimicult	condition	s, factors that r	nay affect i	neasure	ements	or alu pro	cessing			
COND 182 S		+	100	1							-					
FLUOR S/N		1	101	1					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
O2 (SBE43)	S/N	1	1	-								1				
Transmiss S	N	_		_/_		*				, · · · · · · · · · · · · · · · · · · ·				1		
PAR S/N			1	/												
	M		-	/									·			B)
02 SBE42S/	N															
O2 SBE42S/		DEPTH	Rosette Notes		ydro Team		GFF	>10 Large	GFF dup vo		dup vol			Comments of		Nisk #
		DEPTH DESIRED	Rosette Notes	SALT Btl	ydro Team Nut.Btl		GFF vol	>10 Large Vol	GFF dup ve			Phyto preserve		Comments of sample		Nisk #
O2 SBE42S/			Rosette Notes	4					GFF dup vo							Nisk #
02 SBE42S/			Rosette Notes	4					GFF dup vo							=
02 S8E42S/ Nisk #			Rosette Notes	4					GFF dup vo							1
02 S8E42S/ Nisk #			Rosette Notes	4					GFF dup vo							1 2
02 S8E42S/ Nisk #			Rosette Notes	4					GFF dup vo							1 2 3
02 S8E42S/ Nisk # 1 2 3 4			Rosette Notes	4					GFF dup vo					sample		1 2 3 4
02 S8E42S/ Nisk # 1 2 3 4			Rosette Notes	4					GFF dup vo					sample		1 2 3 4 5
02 S8E42S/ Nisk # 1 2 3 4 5	ı		Rosette Notes	4					GFF dup ve					sample		1 2 3 4 5
02 S8E42S/ Nisk # 1 2 3 4 5 6	ı		Rosette Notes	4					GFF dup vo					sample		1 2 3 4 5 6 7
02 S8E42S/ Nisk # 1 2 3 4 5 6 7	ı		Rosette Notes	4					GFF dup vo					sample		1 2 3 4 5 6 7 8
02 S8E42S/ Nisk # 1 2 3 4 5 6 7 8 9	ı		Rosette Notes	4					GFF dup vo					sample		1 2 3 4 5 6 7 8

VESSEL Northwest E	Explorer 20)16	CRUISE ID	NW1604	1		PROJECT & LEG	(if needed)		CTD FileNar	ne (None if o	data is live fee	ed)
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE	(note if no	t) GMT	Time Suri	ace Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
\$\$\phi\g\	DEG 57	MIN 21.959	DEG N 136	03. F		DAY 7	MO YI		MIN 49 14	(°C)	(m) 90	800	SEGO
Sensor IDS (i	initially & s			Weather:	OVa	cast	W/ R	LAIN					CTD MAX. DEPTI
3E type and S/N	an Language Constitution of the constitution o				0 . 0 .								50m
SS S/N				COMMENT		and the second s	, factors that	may affect r	neasuremen	s or aid pr	ocessing		
IP 1 &2 SNs					No-	Bou	æ3						
ND 182 S/Ns	_/	101		4		(
UOR S/N	1	1/14											
(SBE43) S/N													
nsmiss S/N				A									
and the court				- 11									
	7			T .	65 MT								
AR S/N													1122
AR S/N		1				N .					T		1127
AR S/N 2 SBE42S/N	DEPTH	Rosette Notes		lydro Team		GFF vol	>10 Large Vol	GFF dup vo	>10 dup v	ol Phyto		Comments of sample	Mic
AR S/N 2 SBE42S/N	DEPTH DESIRED	Rosette Notes	SALT Btl	lydro Team Nut.Btl				GFF dup vo					es Nis
P. SAN P. SBE42SAN Nisk #		Rosette Notes						GFF dup vo					es Nis
Nisk #		Rosette Notes						GFF dup vo					es Nis
AR S/N 2 SBE42S/N Nisk #		Rosette Notes						GFF dup vo					es Nis
AR S/N 12 SBE42S/N Nisk #		Rosette Notes						GFF dup vo					es Nis
AR S/N 1/2 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes						GFF dup vo					1 2 3 4 5
AR S/N 12 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes						GFF dup vo					8 Nis 1 2 3 4 5
AR S/N 12 SBE42S/N Nisk # 1 2 3 4 5 6		Rosette Notes						GFF dup vo					1 2 3 4 5 6 7
AR S/N 2 SBE42S/N Nisk # 1 2 3 4 5 6 7		Rosette Notes						GFF dup vo					8 Nis
AR S/N 12 SBE42S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes						GFF dup vo					8 Nis
PAR S/N 12 SBE42S/N Nisk # 1 2 3 4		Rosette Notes						GFF dup vo					8 Pices Nis
PAR S/N 12 SBE42S/N Nisk # 1 2 3 4 5 6 7 8 9		Rosette Notes						GFF dup vo					8 Nis

VESSEL Northwes	t Explorer 20	016	CRUISE ID	NW16	04.		PROJECT & LEG	G (if needed)				data is live fee	ed)
CTD cons CAST #		LATITUDE		LONGITUDE		GMT DATE	(note if no	ot) GMT	Time Su	ırface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
19	DEG	MIN	DEG	MIN		DAY	MO Y	R HR	MIN	(°C)	(m)		
007	7 57	12.604	136	35.15	57 w	7	AU 6 1	612	14/	5.3	1720	007	8E670
Sensor IDS	S (initially & s	wap-outs)		Weather:	C	loud	1						CTO MAX. DEPTH =
SBE type and S/N													701M
PRESS S/N				COMMENT:	Difficult	condition	s, factors that	may affect r	neasureme	nts or aid pr	ocessing		
TEMP 1 &2 SNs								_					
COND 182 S/Ns		111	_	1 MF	Bung	so So	mple meloted	200m		,			
FLUOR S/N		IVI		Cory	outer	dis con	welched (2521	u heal	to rest	act or	revame	fileas
02 (SBE43) S/N		1			Fa								
Transmiss S/N													
PAR S/N				 									
O2 SBE42S/N				1					-	_			
	DEPTH	Rosette Notes	Ну	dro Team		GFF	>10 Large	CFF due su	, >10 du	vol Phyto		Comments	or other Nisk #
Nisk #	DESIRED		SALT Btl	Nut.Btl		vol	Vol	GFF dup vo	(large	preserve		sample	es INISK #
1													1
2													2
3							T V						3
4								93					4
5													5
6												W.=	6
7					g========								7
8								<u> </u>					8
9													9
10													10
		N				M						1	II.

VESSEL Northwest Explorer 2016 CTD consec CAT NUE 00 6 CAT NUE 00 6 CAT NUE 00 6 STATION STATION STATION NUMBER NAME DEG MIN DAY MO YR HR MIN (*C) (m) CTD MAX CO STATION STATION STATION STATION NUMBER NAME Weather: Over 00 1 6 20 33 5 1 25 1 25 1 0 0 6 SEG Sensor IDS (initially & swap-outs) Weather: Over 00 1 6 20 33 5 1 25 1 25 1 0 0 6 SEG Set type and SN PRESS SN FLUCR SN COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing Transmiss SN Francisco SN Franc
CAST # LATITUDE LONGITUDE DATE (note if not) GMT Time Surface Temp DEPTH NUMBER NAME DEG MIN DEG MIN DAY MO YR HR MIN (°C) (m) SEC YOLO 57 02 972 N 137 08.602 W 6 4 4 6 1 6 20 33 15.1 2541 6 6 5 6 6 SEG Sensor IDS (initially & swap-outs) Weather: Overcast COMMENT: Difficult conditions, factors that may affect measurements or aid processing TEMP 1 & 2 SNs COND 182 SNs PLUCH SSNs COND (SBE43) SNN Transmiss SNN PAR SNN
Sensor IDS (initially & swap-outs) Weather: Overcast COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid processing COMMENT: Difficult conditions, factors that may affect measurements or aid pr
PRESS S/N TEMP 1 &2 SNs COND 1&2 S/Ns FLUOR S/N Transmiss S/N PAR S/N
SBE type and SN PRESS SN TEMP 1 &2 SNS COND 1&2 SNS FLUOR SN O2 (SBE43) SN Transmiss SN PAR SN
TEMP 1 &2 SNS COND 1&2 SNS FLUOR S/N O2 (SBE43) S/N PAR S/N
COND 182 S/NS FLUOR S/N O2 (SBE43) S/N PAR S/N
O2 (SBE43) S/N Transmiss S/N PAR S/N
O2 (SBE43) S/N Transmiss S/N PAR S/N
PAR S/N
02 S8E42S/N
DEPTH Rosette Notes Hydro Team GFF >10 Large GFF dup vol (large) preserve samples
DESIRED SALT Btl Nut.Btl Vol Vol G17
2
3
4
5
6
6 7
7
7 8
7 8 9

VESSEL Northwest E	xplorer 20)16	CRUISE ID	NW16		PROJECT & LI NBS leg	EG (if r	needed)		CTD FileName (None if data is live feed)						
CTD consec CAST #		LATITUDE				GMT DATE	(note if not)		GMT Time		Surface Temp		BOTTOM DEPTH	STATION NUMBER	STI NAMI	
	DEG	MIN	DEG	g MIN		DAY	МО	YR	HR	MIN	(°C)	(m)	ļ	ļ	
005	56	53. 200	N 137	40,2	52 w	6	AUG	1 6	17	01	15	.4	2642	005	SEG	60
Sensor IDS (i	initially & sv	Weather:	Weather: Cloudy											DEPTH =		
SBE type and S/N	wi —											50	M			
PRESS S/N					COMMENT: Difficult conditions, factors that may affect measurements or aid processing											
TEMP 1 &2 SNs				No	Bonge								1111			
COND 182 S/Ns					J											
FLUOR S/N	_		_			YEAR										
02 (S8E43) S/N																
Transmiss S/N	_															
PAR S/N	_															
	_									2		•				
PARI S/N O2 SBE42S/N	DEPTH	Rosette Notes		lydro Team		GFF	>10 Large	CS	SE dup vo	>10) dup vol	Phyto		Comments	or other	Nint #
PAR S/N	DEPTH DESIRED	Rosette Notes	SALT Bil	lydro Team Nut.Bti		GFF vol	>10 Large Vol	GF	FF dup vo			Phyto preserve		Comments samp		Nisk #
PARI S/N O2 SBE42S/N		Rosette Notes				JR .		GF	FF dup vo							Nisk #
PAR S/N 02 SBE42S/N Nisk #		Rosette Notes				JR .		GF	FF dup vo							Nisk #
PAR S/N 02 S8E42S/N Nisk #		Rosette Notes				JR .		GF	FF dup vo							1
PAR S/N O2 SBE42S/N Nisk #		Rosette Notes				JR .		GF	FF dup vo							1 2
PAR S/N 02 SBE42S/N Nisk # 1 2 3		Rosette Notes				JR .		GF	FF dup vo							2
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4		Rosette Notes				JR .		GF	FF dup vo							1 2 3 4
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes				JR .		GF	FF dup vo							1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5		Rosette Notes				JR .		GF	FF dup vo							1 2 3 4 5
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7		Rosette Notes				JR .		GF	FF dup vo							1 2 3 4 5 6
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5 6 7 8		Rosette Notes				JR .		GF	FF dup vo							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				JR .		GF	FF dup vo							1 2 3 4 5 6 7 8

VESSEL Northwest Ex	oplorer 20	016	CRUISE ID	NW160	04		PROJECT & LEG	(if needed)	**	CTD FileName (None if data is live feed)					
CTD consec CAST #		LATITUDE		LONGITUDE			(note if no	<i>t)</i> GMT	Time Surfa	nce Temp	1	STATION NUMBER	STN. NAME/ID		
	DEG	MIN	DEG	MIN		DAY	MO YF	R HR	MIN	(°C)	(m)				
004	57	20.993	136	44.619	7 w	6	A U G 1	4 3	41 19	5.2	1732	0040	SEEZO		
Sensor IDS (in	nitially & s	wap-outs)		Weather:	CTD N										
SBE type and S/N		10+		50M											
PRESS S/N		194		COMMENT:	Difficult	condition	s, factors that	may affect m	easurement	s or aid pro	ocessing				
TEMP 1 &2 SNS COND 1&2 S/NS FLUOR S/N O2 (SBE43) S/N			No b	pungo											
Transmiss S/N															
PAR S/N															
O2 SBE42S/N		30				-									
												·			
Nisk#	DEPTH DESIRED	Rosette Notes	SALT BU	lydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vo	Phyto preserve		Comments or sample:	INGL		
,	DESIRED		SALIBU	Nucuu	1				1	T		<u> </u>	1		
2										- 			2		
3													3		
4													4		
5													5		
6													6		
7													7		
8													8		
9													9		
10										<u> </u>			10		
11	-												11		
12										†			12		

vessel Northwe	st Explorer	2016		CRUISE IE	NW168	04		PROJECT & L	LEG (id	f needed)		ст	TD FileNar	me (None if o	data is live fe	ed)	00000
CTD cor		LATI	TUDE		LONGITUDE			(note if not)		GMT	Time Surfa		e Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID	
	DEG		MIN	DEG	MIN	V .	DAY	МО	YR	HR	MIN		°C)	(m)			
00.	3 5	7 2	10.718	137	28.48	88 w	6	AUG	1 6	12	19	15,	2	2500	003	SEIY	0
Sensor II	DS (initially &	swap-			Weather:											CTD MAX. DEPTH	ļ =
SBE type and S/I	type and S/N					50											
TEMP 1 82 SNS COND 182 S/NS FLUOR S/N O2 (SBE43) S/N Transmiss S/N PAR S/N O2 SBE42S/N					Live	box#	3										
O2 S8E42S/N	DEPTH	TH Rosette Notes			/dro Team		GFF			GFF dup vo	>10 dup				Comments	Iblick	, #
THIS II	DESIRED			SALT Bti	Nut.Btl		vol	Vol			(large)	arge)	preserve		samples		닉
1						ļ	ļ						2000 N. C.			1	\dashv
2		+				 		-	+							2	\neg
3														-		3	٦
4					102				+		201					5	
6																6	\neg
7																7	╛
8													******			8	٦
9									\top	7,2						9	٦
10																10	٦
11								256								11	
12						†	1							1	Section	12	٦

	0			RI.													
vessel Northwe	st Explorer 2	2016	CRUISE ID	01604 PROJECT & LEG (if needed) NBS leg Za							CTD FileName (None if data is live feed) Cat NW E002						
CTD con		LATITUDE		LONGITUDE			(note	(note if not)		Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	ST/ NAME		
	DEG	MIN	DEG	MIN		DAY	МО	YR	HR	MIN	(°	C)	(m)				
00	2 57	- 30.243	N 136	53.88.	5 w	5	AUG	1 4	20	16	5.	12	1772	002	SET	20	
Sensor il	DS (initially &			Weather:	Han	y)									CTD MAX. D	DEPTH =	
SBE type and S/N	N	9+			()()												
PRESS S/N		4			COMMENT: Difficult conditions, factors that may affect measurements or aid processing												
TEMP 1 &2 SNs] 2	000	UA	F Bo	100									
COND 182 S/Ns	_							J_									
FLUOR S/N				200m UAF Bango 10 larvaceurs collected for Itaintz Ura # 1 -40'													
O2 (SBE43) S/N																	
Transmiss S/N	_								,				-				
PAR S/N														4,-4,			
02 SBE42S/N												-					
Niels #	DEPTH	Rosette Notes	Ну	Hydro Team		GFF	>10 Larg	e	GFF dup vo	>10 dup vo		ol Phyto		Comments or oth		Nisk #	
Nisk #	DESIRED		SALT Btl	Nut.Bti		vol	Vol		dri dap va	' (la	(large)			sampl	les	141611	
1																1	
2																2	
						1			-			-				3	
3																4	
4			-	-			-	+		_						5	
5													-				
6						<u> </u>				_						6	
7																7	
8														<u> </u>	1	8	
																9	

																	
vessel Northwes	st Explore	r 201	16	CRUISE I	, NM	PROJECT & NBS leg	LEG (i	if needed) –		CTD FileName (None if data is live feed)							
CTD con:		LATITUDE			LONGITUDE	LONGITUDE		(note	if not)	GMT	Time Si	rface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID		
	DEG		MIN	DEG	MIN	ı	DAY	МО	YR	HR	MIN	(°C)	(m)	II.II.o-			
00	5	7	57,082	136	38.9	10	w 5	AUG	1 6	15:	38 1	5, 3	95	081	SEKC		
Sensor ID	S (initially	& swa	ap-outs)	Weather:	Weather: Cloudy												
SBE type and S/N			9+				1								50A		
PRESS S/N					COMMENT	Γ: Difficu	ılt conditi	ons, factors	that ma	ay affect r	neasureme	nts or aid pr	ocessing				
TEMP 1 &2 SNs					Reva	Revamed Latinue 067 = CATNWEOOL											
COND 182 S/Ns																	
FLUOR S/N																	
O2 (SBE43) S/N																	
Transmiss S/N																	
PAR S/N																	
O2 SBE42S/N																	
Mini. M	DEPTH	DEPTH Rosette Notes			Hydro Team		GF	GFF >10 Larg	ge C	GFF dup vo	, >10 dup	vol Phyto		Comments	Mick		
Nisk #	DESIRE	D		SALT Bu	Nut.Btl		V	loV k		di i dap vo	(large) preserve		samp	les		
1															1		
2															2		
3															3		
4													1		4		
5						,									5		
6															6		
7											^				7		