

[illegible]

[illegible]

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)			
CTD consec CAST #				LATITUDE				LONGITUDE				GMT DATE			
				DEG MIN				DEG MIN				DAY MONTH YEAR			
3				60 0.018 N				59.976 W				28 08 17			
STN. NAME/ID				STATION NUMBER				BOTTOM DEPTH (m)				Surface Temp (°C)			
												8.47			
3								51				3			
Sensor IDS (initially & swap-outs)															
SBE type and S/N															
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															
O2 SBE42S/N															
Weather:															
CTD MAX. DEPTH = 46															
COMMENT: Difficult conditions, factors that may affect measurements or aid processing															

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk
			SALT Btl	Nut.Btl							
1											1
2											2
3	30 m		55	0010	250						3
4	20 m			0009	250						4
5										BLANK GFF@	5
6										this station	6
7											7
8											8
9											9
10	10 m			0008	250	250	250		✓		10
11	0 m			0007	250	250	250			nutrient label	11
12										0006 DISCARDED	12

VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)					
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		GMT (note if not)		Time		Surface Temp		BOTTOM DEPTH		STN. NAME/ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(m)					
4		60	30.07	N	169	28	08	17	3	12	8.65	46		4			
Sensor IDS (initially & swap-outs)																	
SBE type and S/N																	
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																	
O2 SBE42S/N																	
Weather:																	
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																	
CTD MAX. DEPTH =																	

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3	30 m			0014	250		250				3
4	20 m			0013	250						4
5											5
6											6
7										BANK GFF	7
8										@ THIS STN	8
9											9
10											10
11	10 m			0011	250	250					11
12	0 m			0012	250	250					12

VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)																	
CTD consec CAST #		LATITUDE		DEG		MIN		DEG		LONGITUDE		GMT DATE		(note if not)		GMT		Time		Surface Temp		BOTTOM DEPTH		STATION NUMBER		STN. NAME/ID			
5		60		30.03		N		168		39.91		W		28		08		17		2035		9.18		35		5			
Sensor IDS (initially & swap-outs) SBE type and S/N 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 O2 SBE42S/N																													
Weather: COMMENT: Difficult conditions, factors that may affect measurements or aid processing																													
CTD MAX. DEPTH =																													

Nisk #	DEPTH DESIRED	Rosette Notes		Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
		SALT Btl	Nut.Btl									
1												1
2												2
3	30m		0018		250							3
4	20m		0017		250							4
5												5
6												6
7												7
8												8
9												9
10												10
11	10m		0016		250		250			✓		11
12	0m		56 0015		250		250					12

VESSEL

Northwest Explorer 2017

CRUISE ID

NW1705

PROJECT & LEG (if needed)

NBS leg

CTD FileName (None if data is live feed)

CTD consec CAST #	LATITUDE		DEG	LONGITUDE		DEG	GMT DATE		(note if not)			Surface Temp (°C)	BOTTOM DEPTH (m)	STATION NUMBER	STN. NAME/ID
	MIN	MIN		MIN	MIN		DAY	DAY	MO	YR	HR				
6	60	29.997	N	167	59.761	W	24	08	1	7	00	50	26	6	-

Sensor IDS (initially & swap-outs)

Weather:

CTD MAX. DEPTH =

SBE type and S/N

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

O2 SBE42S/N

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3											3
4	20 m			0021	250						4
5											5
6											6
7											7
8											8
9											9
10											10
11	10 m			0020	250	250					11
12	0 m			0019	250	250					12

VESSEL Northwest Explorer 2017						CRUISE ID				PROJECT & LEG (if needed) NBS leg								CTD FileName (None if data is live feed)			
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not) GMT		Time		Surface Temp		BOTTOM DEPTH	STATION NUMBER		STN. NAME/ID				
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(m)									
7	60	30.036	N	167	0.147	W	29	08	1	7	15	57	11.67	22	7						
Sensor IDS (initially & swap-outs)																					
SBE type and SN																					
PRESS SN																					
TEMP 1 & 2 S/Ns																					
COND 1&2 S/Ns																					
FLUOR SN																					
O2 (SBE43) SN																					
Transmiss SN																					
PAR SN																					
O2 SBE42SN																					
Weather:																					
CTD MAX. DEPTH =																					
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																					

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
9											9
10											10
11	10 m		57	0023	250	250	250		✓	Blank GFC	11
12	0 m			0022	250					This station	12

VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)																	
CTD consec CAST #		LATITUDE		DEG		MIN		DEG		LONGITUDE		MIN		GMT DATE		(note if not)		GMT		Time		Surface Temp		BOTTOM DEPTH		STATION NUMBER		STN. NAME/ID	
8		60		59.904		N		106		59.942		W		30		08		17		15:59		11.4		17		8			
Sensor IDS (initially & swap-outs)																Weather:													
SBE type and SN																CTD MAX. DEPTH = 10M													
PRESS SN																COMMENT: Difficult conditions, factors that may affect measurements or aid processing													
TEMP 1 & 2 S/Ns																													
COND 1&2 S/Ns																													
FLUOR SN																													
O2 (SBE43) SN																													
Transmiss SN																													
PAR SN																													
O2 SBE42SN																													

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team			GFF vol	> 10 Large Vol	GFF dup vol	> 10 dup vol (large)	Phyto preserve	Comments-of-other samples	Nisk #
			SALT Btl	Nut.Btl								
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11	10 m			0025		250	250	250			BLANK bff	11
12	0 m			0024		250					@ THIS STATION	12

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)									
CTD consec CAST #				LATITUDE				GMT DATE				STN. NAME/ID									
DEG MIN				DEG				LONGITUDE				GMT DATE									
DEG MIN				DEG				MIN				DAY									
9 60				59.809 N				168				0.024 W									
31				08				17				1558									
10.5				24																	
Weather:				CTD MAX. DEPTH =																	
Sensor IDS (initially & swap-outs)				COMMENT: Difficult conditions, factors that may affect measurements or aid processing																	
SBE type and S/N																					
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																					
O2 SBE42S/N																					
Nisk #		DEPTH		Rosette Notes		Hydro Team		GFF vol		> 10 Large Vol		GFF dup vol		> 10 dup vol (large)		Phyto preserve		Comments or other samples		Nisk #	
DESIRED						SALT Btl Nut.Btl															
1																				1	
2																				2	
3																				3	
4		20m				0028		250												4	
5																				5	
6																				6	
7																				7	
8																				8	
9																				9	
10																				10	
11		10m				0027		250		250								BLANK 6FF		11	
12		0 m				0026		250		250		250						THIS STATION		12	

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)															
CTD consec CAST #		LATITUDE		DEG		MIN		LONGITUDE		MIN		GMT DATE		(note if not)		GMT		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STATION NUMBER		STN. NAME/ID	
10		61		0.024		N		169		0.231		W		31		08		17		20:58		9.5		32		10	
Sensor IDS (initially & swap-outs)																											
SBE type and S/N																											
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																											
O2 SBE42S/N																											
Weather:																											
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																											
CTD MAX. DEPTH =																											

Nisk #	DEPTH DESIRED	Rosette Notes		Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
		SALT Btl	Nut.Btl									
1												1
2												2
3												3
4	20m		0031		250							4
5												5
6												6
7												7
8												8
9												9
10												10
11	10m		0030		250		250					11
12	0m		0029		250		250					12

VESSEL
Northwest Explorer 2017

CRUISE ID
NW1705

PROJECT & LEG (if needed)
NBS leg

CTD FileName (None if data is live feed)

CTD consec CAST #	LATITUDE		DEG	MIN	DEG	LONGITUDE		GMT DATE			GMT (note if not)			Surface Temp (°C)	BOTTOM DEPTH (m)	STATION NUMBER	STN. NAME/ID
	DEG	MIN				MIN	MAX	DAY	MO	YR	HR	MIN					
11	61	00.064	N		169		59.957	W	61	09	17	1:20	8.5	43	11		

Sensor IDS (initially & swap-outs)

Weather:

CTD MAX. DEPTH =

SBE type and S/N

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

O2 SBE42S/N

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3	35m		59	0035	250					FIRE BELOW	3
4	20m			0034	250					30M TO CAPTURE	4
5										SAMPLE WT	5
6										COOL POOL	6
7											7
8											8
9											9
10											10
11	10m			0033	250	250			✓		11
12	0m			0032	250	250					12

VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)			
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		GMT (note if not)		Surface Temp (°C)		BOTTOM DEPTH (m)		STN. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN					
12	61	30.208	N	170		1	09	17	15	58	8.4	42	12		
Sensor IDS (initially & swap-outs)															
SBE type and S/N															
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															
O2 SBE42S/N															
Weather:															
COMMENT: Difficult conditions, factors that may affect measurements or aid processing															
bottom temp - 0.5															
sampled at 35m in cold pool															
CTD MAX. DEPTH =															

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3	35		0039		250		250			BLANK GFF@	3
4	20		0038		250					THIS STATION	4
5											5
6											6
7											7
8											8
9											9
10											10
11	10		0037		250	250					11
12	0		0036		250	250					12

VESSEL Northwest Explorer 2017			CRUISE ID			PROJECT & LEG (if needed) NBS leg			CTD FileName (None if data is live feed)								
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		GMT (note if not)		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STN. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN							
13	61	30.01	N	168	59.96	1	09	17	20:02	7.99	31						
Sensor IDS (initially & swap-outs) SBE type and S/N 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 O2 SBE42S/N																	
Weather: COMMENT: Difficult conditions, factors that may affect measurements or aid processing																	
CTD MAX. DEPTH =																	

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team			GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Bl	Nut.Btl								
1												1
2												2
3												3
4	20 m			0042		250						4
5												5
6												6
7												7
8												8
9												9
10												10
11	10 m			0041		250	250			✓		11
12	0 m			60 0040		250	250					12

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)									
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not)		GMT		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STATION NUMBER		STN. NAME/ID	
14		61 30.062 N		59.84 W		2		9 1 7		10:30		14		9.47		23					
Sensor IDS (initially & swap-outs)																					
SBE type and S/N																					
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																					
O2 SBE42S/N																					
Weather:																					
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																					
CTD MAX. DEPTH =																					

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3											3
4	20 m			0045	250						4
5											5
6											6
7										BLANK >10	7
8										@ THIS STATION	8
9											9
10											10
11	10 m			0044	250	250		250			11
12	0 m			0043	250						12

[illegible]

VESSEL Northwest Explorer 2017			CRUISE ID NW1705			PROJECT & LEG (if needed) NBS leg			CTD FileName (None if data is live feed)																		
CTD consec CAST #		LATITUDE		DEG		MIN		DEG		MIN		GMT DATE		(note if not)		GMT		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STATION NUMBER		STN. NAME/ID	
16		62		005		N		167		0.000		W		2		9		17		20:23		9.7		25		16	
Sensor IDS (initially & swap-outs)																											
SBE type and S/N																											
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																											
O2 SBE42S/N																											
Weather:																											
CTD MAX. DEPTH =																											
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																											

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT BH	Nut.Btl							
1											1
2											2
3											3
4	20 m			0050	250						4
5											5
6											6
7											7
8											8
9											9
10											10
11	10 m			0049	250	250					11
12	0 m			0048	250	250					12

VESSEL
Northwest Explorer 2017

CRUISE ID
NW1705

PROJECT & LEG (if needed)
NBS leg

CTD FileName (None if data is live feed)

CTD consec CAST #	LATITUDE		DEG	MIN	DEG	LONGITUDE		GMT DATE		GMT (note if not)			Time	Surface Temp (°C)	BOTTOM DEPTH (m)	STATION NUMBER	STN. NAME/ID
	DEG	MIN				MIN	DAY	DAY	MO	YR	HR	MIN					
17	62	0.002	N		168		0.066	W	3	9	1	7	0:31	8.6	23	17	

Sensor IDS (initially & swap-outs)

SBE type and S/N

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

O2 SBE42S/N

Weather:

CTD MAX. DEPTH =

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3											3
4	20m		61	0053	250						4
5											5
6											6
7											7
8											8
9											9
10											10
11	10m			0052	250	250			✓		11
12	0m			0051	250	250	250				12

VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)					
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		GMT (note if not)		Time		Surface Temp		BOTTOM DEPTH		STN. NAME/ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(m)					
18		62	0.173	N	169	3	9	17	15	57	7.86	33				18	
Sensor IDS (initially & swap-outs)																	
SBE type and S/N																	
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																	
O2 SBE42S/N																	
Weather:																	
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																	
bottom temp 1.8																	
CTD MAX. DEPTH =																	

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3	30 m			0057	250						3
4	20 m			0056	250						4
5										BLANK GFF	5
6										AND BLANK	6
7										>10 @ THIS	7
8										STATION	8
9											9
10											10
11	10 m			0055	250	250					11
12	0 m			0054	250	250					12

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)																	
CTD consec CAST #		LATITUDE		DEG		MIN		GMT DATE		(note if not)		GMT		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STATION NUMBER		STN. NAME/ID							
19		62		0.047		N		169		59.94		W		3		9		1		7		20:25		7.9		40		19	
Sensor IDS (initially & swap-outs)																													
SBE type and S/N																													
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																													
O2 SBE42S/N																													
Weather:																													
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																													
bottom 0.8°C																													
CTD MAX. DEPTH =																													

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3	30 m			0061	250						3
4	20 m			0060	250						4
5											5
6											6
7											7
8											8
9											9
10											10
11	10 m			0059	250	250			✓		11
12	0 m			0058	250	250					12

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)									
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not)		GMT		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STATION NUMBER		STN. NAME/ID	
20		62 30.005 N		168 59.927 W		4		9 1 7		2:11		8.8		28		20					
Sensor IDS (initially & swap-outs)																					
SBE type and S/N																					
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																					
O2 SBE42S/N																					
Weather:																					
CTD MAX. DEPTH =																					
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																					

Nisk #	DEPTH DESIRED	Rosette Notes		Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
		SALT Btl	Nut Btl									
1												1
2												2
3												3
4	20 m		0062		250							4
5												5
6												6
7												7
8												8
9												9
10												10
11	10 m		063		250		250					11
12	0 m		064		250		250					12

VESSEL Northwest Explorer 2017				CRUISE ID NW1705		PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)															
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not)		GMT		Time		Surface Temp		BOTTOM DEPTH		STATION NUMBER		STN. NAME/ID					
		DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		(m)			
21		62		30.28		N		168		0.004		W		4		9		15:59		8.72		24		21	
Sensor IDS (initially & swap-outs)																									
SBE type and S/N																									
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																									
O2 SBE42S/N																									
Weather:																									
CTD MAX. DEPTH =																									
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																									

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3											3
4	20m		063	0067	250		250				4
5											5
6											6
7											7
8											8
9											9
10											10
11	10m			0066	250	250			✓		11
12	0m			0065	250	250					12

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)			
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		GMT (note if not)		Time		Surface Temp		STATION NAME/ID	
		DEG MIN		DEG MIN		DAY		MO YR		HR MIN		(°C)		NUMBER	
22		62 30.029 N		167		4 0.041 W		9 17		20:13		8.89		22	
Sensor IDS (initially & swap-outs)															
SBE type and S/N															
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															
O2 SBE42S/N															
Weather:															
CTD MAX. DEPTH =															
COMMENT: Difficult conditions, factors that may affect measurements or aid processing															

Nisk #	DEPTH DESIRED	Rosette Notes		Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
		SALT Btl	Nut.Btl									
1												1
2												2
3												3
4	20m		0070			250						4
5												5
6												6
7												7
8												8
9												9
10												10
11	10 m		0069			250	250					11
12	0 m		0068			250	250					12

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)									
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not)		GMT		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STATION NUMBER		STN. NAME/ID	
23		63 0.043 N		167		0.028 W		5		9 1 7		1:03		9.1		20		23			
Sensor IDS (initially & swap-outs)																					
SBE type and S/N																					
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																					
O2 SBE42S/N																					
Weather:																					
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																					
CTD MAX. DEPTH =																					

Nisk #	DEPTH DESIRED	Rosette Notes		Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
		SALT Btl	Nut.Btl	Nut.Btl	Nut.Btl							
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11	10 m				0072	250	250					11
12	0 m				6071	250	250					12

VESSEL Northwest Explorer 2017				CRUISE ID		PROJECT & LEG (if needed)				CTD FileName (None if data is live feed)					
				NW1705		NBS leg									
CTD consec CAST #	LATITUDE		LONGITUDE		GMT DATE		(note if not)		GMT		Time	Surface Temp (°C)	BOTTOM DEPTH (m)	STATION NUMBER	STN. NAME/ID
24	63	0,041 N	165	59.879 W	5	9	1	7	15	56	8.2	16	24		
Sensor IDS (initially & swap-outs)															
SBE type and S/N															
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															
O2 SBE42S/N															
Weather:															
COMMENT: Difficult conditions, factors that may affect measurements or aid processing															

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut Btl							
1											1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
9											9
10											10
11	10 m			0074	250	250	250			BLANK GFF	11
12	0 m		64	0073	250					THIS STATION	12

VESSEL Northwest Explorer 2017				CRUISE ID		PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)												
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not) GMT		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STATION NUMBER		STN. NAME/ID				
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN												
25	63	30.046	N	165	59.955	5	9	17	22	19		9.2	20	25								
Sensor IDS (initially & swap-outs)																			Weather:		CTD MAX. DEPTH =	
SBE type and S/N																						
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																						
O2 SBE42S/N																						
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																						

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
9											9
10											10
11	10m		0076		250	250			✓		11
12	0m		0075		250						12

VESSEL Northwest Explorer 2017				CRUISE ID		PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)							
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		GMT (note if not)		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STN. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN									
26	103	30.017	N	167	0.163	W	6	9	1	7	2	15	8.5	22	26		
Sensor IDS (initially & swap-outs) SBE type and S/N 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 O2 SBE42S/N																	
Weather:																	
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																	
CTD MAX. DEPTH =																	

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT BH	Nut.BH							
1											1
2											2
3											3
4	20 m			0079	250						4
5											5
6											6
7											7
8											8
9											9
10											10
11	10 m			0078	250	250					11
12	0 m			0077	250	250					12

[illegible]

VESSEL
Northwest Explorer 2017

CRUISE ID

NW1705

PROJECT & LEG (if needed)
NBS leg

CTD File Name (None if data is live feed)

CTD consec CAST #	LATITUDE		DEG	LONGITUDE		DEG	GMT DATE			GMT (note if not)			Time	Surface Temp (°C)	BOTTOM DEPTH (m)	STATION NUMBER	STN. NAME/ID
	MIN	MIN		MIN	MIN		DAY	MO	YR	HR	MIN						
28	63	59.935	N	168	50.0	W	6	9	17	20	25	8.1	32	28			

Sensor IDS (initially & swap-outs)

Weather:

CTD MAX. DEPTH =

SBE type and S/N

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

O2 SBE42S/N

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

VESSEL Northwest Explorer 2017				CRUISE ID				PROJECT & LEG (if needed) NBS leg				CTD File Name (None if data is live feed)					
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		GMT (note if not)		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STN. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	YR	MO	HR	MIN							
29	64	0.011	N	166	59.889	7	17	9	053	8.2	28	29					
Sensor IDS (initially & swap-outs)																	
SBE type and SN																	
PRESS SN																	
TEMP 1 &2 SNs																	
COND 1&2 SNs																	
FLUOR SN																	
O2 (SBE43) SN																	
Transmiss SN																	
PAR SN																	
O2 SBE42SN																	
Weather:																	
CTD MAX. DEPTH:																	
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																	

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team			GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk
			SALT Bit	Nut.Bit								
1												1
2												2
3											GFF 3 >10	3
4	20m			0089		250					SAMPLES FROM	4
5											THIS STATION	5
6											ACCIDENTALLY	6
7											LEFT OUT	7
8											OVERNIGHT,	8
9											FROZEN IN	9
10											SUPER COLD	10
11	10m			0088		250	250				IN THE AM	11
12	0m			0087		250						12

VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is ... feed)					
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not)		Time		Surface Temp		BOTTOM DEPTH		STN. NAME/ID	
		DEG MIN		DEG MIN		DAY		MO		HR		MIN		(m)			
30		64 6.062 N		164		30.333 W		7		9 1 7		15:58		10.9 16		30	
Sensor IDS (initially & swap-outs)																	
Weather:																	
SBE type and S/N																	
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																	
O2 SBE42S/N																	
CTD MAX. DEPTH =																	
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																	

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team			GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl								
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11	10 m			0091		250	250	250		✓	BLANK GFF	11
12	0 m			66 0090		250	250				@ THIS STATION	12

VESSEL Northwest Explorer 2017						CRUISE ID		PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)				
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not)		Time		Surface Temp		BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(m)				
31	64	6.00	N	163	30.025	7	9	17	20	13	11.4	19	31			
Sensor IDS (initially & swap-outs)																
SBE type and S/N																
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																
O2 SBE42S/N																
Weather:																
CTD MAX. DEPTH =																
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3											3
4	18 m			0092	250						4
5											5
6											6
7											7
8											8
9											9
10											10
11	10 m			0093	250	250			✓		11
12	0 m			0094	250	250					12

[illegible]

[illegible]

VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is ... feed)									
CTD consec CAST #		LATITUDE		DEG		MIN		GMT DATE		(note if not)		GMT		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STN. NAME/ID	
301		64		29		49		8		16		7		22		26		7.5		34	
Sensor IDS (initially & swap-outs)				Weather:				CTD MAX. DEPTH =													
SBE type and S/N																					
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																					
O2 SBE42S/N																					
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																					

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team		GFF vol	> 10 Large Vol	GFF dup vol	> 10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Btl	Nut.Btl							
1											1
2											2
3											3
4	20 m			0101	250						4
5											5
6											6
7											7
8											8
9											9
10											10
11	10 m			0099	250	250					11
12	0 m			0098	250	250					12

[illegible]

[illegible]

VESSEL Northwest Explorer 2017						CRUISE ID		PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)				
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		(note if not)		GMT		Surface Temp		BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
DEG	MIN	DEG	MIN	DEG	MIN	DAY	HR	MO	YR	HR	MIN	(°C)	(m)			
37	64	57.612	N	169	53.375	W	9	17	18:18	3.68	44	37	DB02.4			
Sensor IDS (initially & swap-outs)																
SBE type and S/N																
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																
O2 SBE42S/N																
Weather:																
COMMENT: Difficult conditions, factors that may affect measurements or aid processing																
CTD MAX. DEPTH =																
DEPTH		Rosette Notes		Hydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples		Nisk #			
DESIRED		SALT Btl	Nut.Btl													
1													1			
2													2			
3	30 m		0113			250							3			
4	20 m		0112			250							4			
5													5			
6													6			
7													7			
8													8			
9													9			
10													10			
11	10 m		0111			250	250						11			
12	0 m		0110			250	250						12			

VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) NBS leg				CTD FileName (None if data is live feed)																																																																																																																																																																																														
CTD consec CAST #		LATITUDE		LONGITUDE		GMT DATE		GMT (note if not)		Time		Surface Temp (°C)		BOTTOM DEPTH (m)		STN. NAME/ID																																																																																																																																																																																										
38		64 40.185 N		55.253 W		9 169		9 17		20:33		3.19		43		DB02.1																																																																																																																																																																																										
Sensor IDS (initially & swap-outs) SBE type and S/N 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 O2 SBE42S/N																																																																																																																																																																																																										
Weather: COMMENT: Difficult conditions, factors that may affect measurements or aid processing																																																																																																																																																																																																										
CTD MAX. DEPTH =																																																																																																																																																																																																										
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VESSEL Northwest Explorer 2017				CRUISE ID NW1705				PROJECT & LEG (if needed) GOA leg				CTD FileName (None if data is live feed)							
CTD consec CAST #	LATITUDE			DEG	LONGITUDE			DEG	GMT DATE			GMT (note if not)			Time	Surface Temp (°C)	BOTTOM DEPTH (m)	STATION NUMBER	STN. NAME/ID
	DEG	MIN	SEC		MIN	SEC	SEC		DAY	MO	YR	HR	MIN						
39	64	40.82	N	169	6	04	7	W	9	1	7	23	02		4.5	41	39	DB022	
Sensor IDS (initially & swap-outs)										Weather:									
SBE type and SN										CTD MAX. DEPTH =									
PRESS SN										COMMENT: Difficult conditions, factors that may affect measurements or aid processing									
TEMP 1 & 2 S/Ns																			
COND 1 & 2 S/Ns																			
FLUOR SN																			
O2 (SBE43) SN																			
PAR SN																			
O2 SBE42SN																			

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team			GFF vol	>10 Large Vol	GFF dup vol	>10 dup vol (large)	Phyto preserve	Comments or other samples	Nisk #
			SALT Bl	Nut.Bl								
1												1
2												2
3	30m			0121		250						3
4	20m			0120		250						4
5												5
6												6
7												7
8												8
9												9
10												10
11	10m			0119		250	250			✓		11
12				0118		250	250					12

[illegible]