YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15A CTD 001 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
1	60	00.0171 N	168	00.6958 W	01	SEP	15	16	10	9.6	25	1	1

Sensor IDs (Initially & Swap-outs)

SBE type and S/N	9+ 37878-0775
PRESS S/N	"
TEMP 1 & 2 S/Ns	034354 & 03P4394
COND 1& 2 S/Ns	042879 & 043072
FLUOR S/N	WS35 994P
O2 (SBE43) S/N	430804 & 431301
Transmiss S/N	
PAR S/N	SPQA3377
O2 (SBE42) S/N	

Weather:

(Difficult conditions, factors that may affect measurements or aid processing)

CTD Max Depth = 20

Comments:

Nutrients 1 & 2 taken improperly... thrown out.

MLD: 20 T0: 9.6 S0: 30.3 T5: 9.6 S5: 30.3

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #		GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1												1
2	~~10m~~					~~25~~						2
3												3
4	~~30m~~					~~250~~						4
5												5
6	~~30m~~											6
7												7
8												8
9												9
10	20m			2		250		~~25~~				10
11												11
12	0m		239	1		250	250	250				12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD002 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
2	59	59.9849 N	168	59.9013 W	01	SEP	15	23	19	9.0	42	1	2

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 (SBE42) S/N _____

Weather:

(Difficult conditions, factors that may affect measurements or aid processing)

CTD Max Depth = 37

Comments:

MLD:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2	37			5		250						2
3												3
4	30			5		250						4
5												5
6	30											6
7												7
8												8
9												9
10	20			4		250						10
11												11
12	0			3		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD003 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
3	60	00.0575 N	169	59.8177 W	02	SEP	15	03	45	9.2	55	1	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 (SBE42) S/N _____

Weather: slight rain, 6-8-10

CTD Max Depth = 50

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

New coefficients for Xmiss. in con file.

MLD:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #	Hydro Team-PMEL	GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1	50	50	240	9								1
2	40	40		8		250						2
3												3
4	30	30				250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		7		250						10
11												11
12	0	2		6		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15-CTD004 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
4	60	33.9824 N	170	40.6946 W	02	SEP	15	20	25	9.3	50	1	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 (SBE42) S/N _____

Weather: fog, 6-8'

CTD Max Depth = 45

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

MLD:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1	45	45										1
2	40	40		12		250						2
3												3
4	30	30				250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		11		250		250				10
11												11
12	0	2		10		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15-CTD005 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
5	60	29.9067 N	169	0.2934 W	03	SEP	15	01	00	8.9	38	1	5

Sensor IDs (Initially & Swap-outs)	Weather:	CTD Max Depth = 33

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 (SBE42) S/N

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

MLD:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2	40			15		250						2
3												3
4	30	33		15		250						4
5												5
6												6
7												7
8												8
9												9
10	20	21		14		250						10
11												11
12	0	1	241	13		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD006 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
6	60	30.2924 N	167	58.1728 W	03	SEP	15	16	12	10.3	28	1	6

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 (SBE42) S/N _____

Weather: overcast

CTD Max Depth = 23

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	23		17		250						10
11												11
12	0	1		16		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD007 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
7	60	30.0246 N	167	00.3061 W	03	SEP	15	20	17	10.9	27	1	7

Sensor IDs (Initially & Swap-outs)	Weather: overcast, calm	CTD Max Depth = 22

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 (SBE42) S/N

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	22	242	19		250						10
11												11
12	0	1		18		250	250		250			12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD008 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
8	60	59.4480 N	167	00.1113 W	04	SEP	15	01	02	10.9	23	1	8

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 (SBE42) S/N _____

Weather: overcast

CTD Max Depth = 19

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	19		21		250						10
11												11
12	0	1		20		250	250					12

530

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD009 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
9	60	59.9374 N	168	00.7524 W	04	SEP	15	16		9.3	28	1	9

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 (SBE42) S/N _____

Weather: overcast

CTD Max Depth = 23

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	23		23		250						10
11												11
12	0	1	243	22		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD010 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
10	61	0.1357 N	169	0.3412 W	04	SEP	15	20	14	9.1	37	1	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 (SBE42) S/N _____

Weather: mostly cloudy

CTD Max Depth = 32

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	30	32		26		250		250				4
5												5
6												6
7												7
8												8
9												9
10	20	20		25		250						10
11												11
12	0	1		24		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD011 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
11	60	59.9781 N	169	59.3671 W	05	SEP	15	00	40	9.6	47	1	11

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 (SBE42) S/N _____

Weather: mostly cloudy

(Difficult conditions, factors that may affect measurements or aid processing)

CTD Max Depth = 42

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #	Hydro Team-PMEL	GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1												1
2	40	42	244	29		250						2
3												3
4	30	30		[illegible]		250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		28		250						10
11												11
12	0	2		27		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD012 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
12	61	30.3451 N	170	0.3003 W	05	SEP	15	15	41	9.4	45	1	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 (SBE42) S/N _____

Weather:

(Difficult conditions, factors that may affect measurements or aid processing)

CTD Max Depth = 40

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2	40	40		32		250		250				2
3												3
4	30	30				250						4
5												5
6												6
7												7
8												8
9												9
10	20	21	31	31		250						10
11												11
12	0	2	30	30		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD013 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
13	61	29.9242 N	169	00.3270 W	05	SEP	15	20	05	8.9	35	1	13

Sensor IDs (Initially & Swap-outs)	Weather:	CTD Max Depth = 30

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 (SBE42) S/N _____

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

~~Bon~~ Blank

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #		GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1												1
2												2
3												3
4	30	30		35		250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		34		250						10
11												11
12	0	1	245	33		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD014 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
14	61	29.9701 N	167	59.8918 W	06	SEP	15	02	13	9.5	29	1	14

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 (SBE42) S/N _____

Weather: cloudy

(Difficult conditions, factors that may affect measurements or aid processing)

CTD Max Depth = 24

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	50	24				250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		37		250						10
11												11
12	0	1		36		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD015 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
15	61	29.7657 N	167	0.0633 W	06	SEP	15	16	07	10.2	22	1	15

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 (SBE42) S/N _____

Weather: overcast

CTD Max Depth = 18

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	18	246	39		250						10
11												11
12	0			38		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD016 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
16	61	59.9731 N	167	00.1013 W	06	SEP	15	20	27	9.5	29	1	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 (SBE42) S/N _____

Weather: overcast

CTD Max Depth = 24

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	24		41		250						10
11												11
12	0	1		40		250	250	250				12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD017 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE (should be 62 KS)		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
17	68	00.2522 N	167	59.4674 W	07	SEP	15	01	02	9.3	28	1	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 (SBE42) S/N _____

Weather: partly cloudy

CTD Max Depth = 23

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	23		43		250						10
11												11
12	0	1	247	42		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD018 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
18	62	29.8368 N	167	59.3344 W	07	SEP	15	16	00	9.3	29	1	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 (SBE42) S/N _____

Weather: overcast

CTD Max Depth = 24

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	20		45		250		250				10
11												11
12	0	3		44		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD019 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
19	62	30.1078 N	167	0.2557 W	07	SEP	15	20	51	9.2	35	1	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 (SBE42) S/N _____

Weather: Mostly cloudy / 3'-5'

CTD Max Depth = 30

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	30	30	248	48		250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		47		250						10
11												11
12	0	2		46		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 1	CTD FILENAME: AE15_CTD029 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
20	63	0.1477 N	166	0.0083 W	08	SEP	15	03	16	9.4	20	1	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 (SBE42) S/N _____

Weather: overcast

CTD Max Depth = 16

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	16		50		250						10
11												11
12	0	3		49		258	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD021 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
21	63	0.4908 N	166	59.6557 W	09	SEP	15	17	25	8.3	25	1	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 (SBE42) S/N _____

Weather: mostly cloudy

CTD Max Depth = 21

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	21		52		250						10
11												11
12	0	3	249	51		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD022 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
22	63	03.3510 N	167	33.7315 W	09	SEP	15	21	53	7.4	34	1	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 (SBE42) S/N

Weather: cloudy

CTD Max Depth = 29

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	30	29		55		250						4
5												5
6												6
7												7
8												8
9												9
10	20	21		54		250		250				10
11												11
12	0	2		53		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15-CTD023 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
23	62	15.2793 N	169	19.6900 W	11	SEP	15	16	28	7.5	45	1	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 (SBE42) S/N

Weather: partly cloudy

CTD Max Depth = 40

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Previous day, no sampling due to winds >35 Knots, seas >10'.

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #	Hydro Team-PMEL	GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1												1
2	40	40	250	58		250						2
3												3
4	30	31				250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		57		250						10
11												11
12	0	2		56		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD024 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
24	62	0.1376 N	169	0.6716 W	11	SEP	15	20	54	6.9	38	1	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 (SBE42) S/N _____

Weather: mostly cloudy

(Difficult conditions, factors that may affect measurements or aid processing)

CTD Max Depth = 33

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2	33	33		61		250						2
3												3
4	30	30				250		250				4
5												5
6												6
7												7
8												8
9												9
10	20	20		60		250						10
11												11
12	0	2		59		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: MBS LEG: 2	CTD FILENAME: AE15_CTD025 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
25	62	29.8413 N	169	0.4089 W	12	SEP	15	02	32	6.7	33	1	25

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 (SBE42) S/N

Weather: partly cloudy

CTD Max Depth = 28

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	30	28		64		250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		63		250						10
11												11
12	0	2	251	62		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15-CTD026 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
26	63	31.4432N	167	59.2127 W	12	SEP	15	16	09	7.6	32	1	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 (SBE42) S/N _____

Weather: overcast

CTD Max Depth = 27

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	30	27		67		250						4
5												5
6												6
7												7
8												8
9												9
10	20	21		66		250						10
11												11
12	0	2		65		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15-CTD027 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
27	63	29.7995 N	167	1.0487 W	12	SEP	15	20	28	6.6	25	1	27

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 (SBE42) S/N _____

Weather:

(Difficult conditions, factors that may affect measurements or aid processing)

CTD Max Depth = 20

Comments:

DUPLICATE

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	20	252	69		250						10
11												11
12	0	2		68		250	250		250			12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: 2 LEG: NBS	CTD FILENAME: AE15_CTD028 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
28	63	29.9731 N	165	59.9922 W	13	SEP	15	00	55	25 SWITCH KS	8.6	1	28

Sensor IDs (Initially & Swap-outs)	Weather: overcast	CTD Max Depth = 20

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 (SBE42) S/N _____

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	20		71		250						10
11												11
12	0	2		70		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15-CTD029 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
29	64	01.3318 N	168	00.3620 W	13	SEP	15	16	15	7.5	36	1	29

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 (SBE42) S/N _____

Weather: overcast, light rain

CTD Max Depth = 31

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	30	31		74		250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		73		250						10
11												11
12	0		253	72		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15-CTD030 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
30	63	59.7153 N	167	0.7905 W	13	SEP	15	20	29	8.5	32	1	30

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 (SBE42) S/N _____

Weather: fog, light rain

CTD Max Depth = 27

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	30	27		77		250		250				4
5												5
6												6
7												7
8												8
9												9
10	20	19		76		250						10
11												11
12	0	2		75		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD031 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
31	63	59.9328N	166	0.2842 W	14	SEP	15	01	12	7.3	22	1	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 (SBE42) S/N _____

Weather: fog, light rain

CTD Max Depth = 17

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #		GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10	20	17	254	79		250						10
11												11
12	0	2		78		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD032 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
32	64	02.4568 N	164	40.2627 W	14	SEP	15	21		9.7	20	1	32

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 (SBE42) S/N _____

Weather: partly cloudy

CTD Max Depth = 16

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	16		81		250						10
11												11
12	0	1		80		250	250	250				12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15-CTD033 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
33	64	05.9439 N	163	50.0164 W	15	SEP	15	01	07	10.0	21	1	53

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 (SBE42) S/N _____

Weather: mostly rainy

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

CTD Max Depth = 17

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	17		83		250						10
11												11
12	0	2	255	82		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: N55 LEG: 2	CTD FILENAME: AE15_CTD034 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
34	64	05.9907 N	162	50.3009 W	15	SEP	15	04	48	10.2	22	1	34

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 (SBE42) S/N _____

Weather: mostly cloudy

CTD Max Depth = 18

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	18		85		250						10
11												11
12	0	2		84		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD035 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
35	64	30.3150 N	166	59.8442 W	15	SEP	15	17	09	8.2	27	1	35

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 (SBE42) S/N _____

Weather: partly cloudy

CTD Max Depth = 22

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	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	20	22	256	87		250						10
11												11
12	0	2		86		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD036 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
36	65	0.1303 N	167	43.4628 W	15	SEP	15	23	29	8-3	36	1	36

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 (SBE42) S/N _____

Weather: partly cloudy

CTD Max Depth = 31

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2												2
3												3
4	30	31		90		250						4
5												5
6												6
7												7
8												8
9												9
10	20	21		89		250		250				10
11												11
12	0	2		88		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD037 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
37	65	22.7111 N	167	59.7738 W	16	SEP	15	04	07	6.3	39	1	37

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 (SBE42) S/N _____

Weather: mostly sunny

(Difficult conditions, factors that may affect measurements or aid processing)

CTD Max Depth = 34

Comments:

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1												1
2	34	34	257	93		250						2
3												3
4	30	30				250						4
5												5
6												6
7												7
8												8
9												9
10	20	21		92		250						10
11												11
12	0	2		91		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD038 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
38	64	59.3195 N	169	8.6177 W	16	SEP	15	15	30	4.7	48	1	38

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 (SBE42) S/N

Weather:

CTD Max Depth = 43

(Difficult conditions, factors that may affect measurements or aid processing)

Comments: DB025; still dark.

Deep bottle not fired, broke tygon tubing.

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1	43											1
2	40	41		96		250						2
3												3
4	30	30				250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		95		250						10
11												11
12	0	2		94		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD039 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
39	64	57.7900 N	169	53.6131 W	16	SEP	15	17	49	5.1	48	1	39

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 (SBE42) S/N

Weather: mostly cloudy

CTD Max Depth = 43

(Difficult conditions, factors that may affect measurements or aid processing)

Comments: DBO 2.4

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL			GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
			SALT Btl #	NUT. Btl #								
1	43	43		100								1
2	40	39		99		250						2
3												3
4	30	29				250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		98		250						10
11												11
12	0	2	258	97		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NRS LEG: 2	CTD FILENAME: AE15_CTD040 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
40	64	40.2696 N	169	55.3473 W	16	SEP	15	20	17	2.9	48	1	40

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 (SBE42) S/N _____

Weather: mostly cloudy

CTD Max Depth = 43

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

DBO 2.1

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #		GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1	43	43		105								1
2	40	40		103		250		250				2
3												3
4	30	30				250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		102		250						10
11												11
12	0	2		101		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD041 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
41	64	40.7202N	169	06.1799 W	16	SEP	15	23	42	4.4	46	1	41

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 (SBE42) S/N

Weather:

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

DBO 2.2

CTD Max Depth = 41

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #		GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1												1
2	40	40	259	108		250						2
3												3
4	30	30				250						4
5												5
6												6
7												7
8												8
9												9
10	20	20		107		250						10
11												11
12	0			106		250	250					12

YEAR: 2015 VESSEL: Alaskan Endeavor	CRUISE ID: AE15	PROJECT: NBS LEG: 2	CTD FILENAME: AE15_CTD042 (None if data is live feed)

CTD CAST # (consec.)	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		SURFACE TEMP (°C)	BOTTOM DEPTH (m)	HAUL #	STN. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN				
42	64	40.3300 N	168	15.6184 W	17	SEP	15	03	41	7.5	38	1	42

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 (SBE42) S/N _____

Weather: cloudy

CTD Max Depth = 35

(Difficult conditions, factors that may affect measurements or aid processing)

Comments:

DBO 2.3

No Bottles; just CTD profile

Nisk #	Depth Desired	Rosette Notes	Hydro Team-PMEL SALT Btl #	Hydro Team-PMEL NUT. Btl #	Hydro Team-PMEL	GFF Volume	>10 Large Volume	GFF (dup) Volume	>10 Large (dup) Volume	POC (500 ml)	Comments or Other Samples	Nisk #
1												1
2	35			111		250						2
3												3
4	30					250						4
5												5
6												6
7												7
8												8
9												9
10	20			110		250						10
11												11
12	0			109		250	250					12