VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
07	57	13.64	N	163	55.25	W	02	OC	T37									

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

This Cast got messed up Tripping bottles so WE re-did it. Name Changed TO CTD001a.* in Computer

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	~~Bot~~		Y	9			277					Not used because		1
2	55		x	10			283					water too Shallow		2
3	~~50~~			11	#61		287							3
4	44			12			288							4
5	~~40~~			13			281							5
6	30			14			282							6
7	~~25~~			15			285							7
8	20			16			281							8
9	11			17			283							9
10	0			18	#68	mx	283							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
01	57	13.75	N	163	55.20	W	02	Oct	16	06		.					62	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH 59

REMARKS:

Recovery Cast for M2 Pegg, which broke loose & drifted 20 miles

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot		145	9			277							1
2	55			10			283							2
3	50			11	116		287							3
4	44			12			288							4
5	40			13			281							5
6	30			14			282							6
7	25			15			285							7
8	20			16			281							8
9	11			17			283							9
10	0			18	168	x	283							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	M2C STA. NAME/ID
02	56	52.47	N	164	02.80	W	02	OCT	18	11	08	.					73	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 68

REMARKS:

Post-Deployment Cal-CTD #1

Layer @ 38m

Jelly in Sal-2 on way up.

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x19		xx								1
2	50			x20			x281							2
3	40			x21			x282							3
4	30			x22			x285							4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	M2C STA. NAME/ID
03	56	52.80	N	164	03.12	W	02	OCT	18	11	51						73	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 23

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	23a						x287							1
2	23b			x23			x288							2
3	23c						x251							3
4	15			24	@37		x282							4
5	11a						x285							5
6	11b			x25			x281							6
7	1 S						x283							7
8	0			x26			x283							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	M2S STA. NAME/ID
004	56	39.69	N	163	51.63	W	05	OCT	18	19	36	.					75	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 58

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			27										1
2	60			28										2
3	50			29			281							3
4	40			30			282							4
5	30			31			285							5
6	20			32			281							6
7	10			33	215		283							7
8	5			34			283							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
005	56	46.36	N	164	19.75	W	05	OCT	18	23	53						75	M2W

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 68

REMARKS:

20+ kts wind, 15' swell

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BoT		146	35	150									1
2	60			36										2
3	50			37			281							3
4	40			38			280							4
5	30			39			285							5
6	20			40			281							6
7	10			41			283							7
8	0			42			283							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
001	56	51.98	N	164	03.50	W	06	OCT	18	02	10	.					74	MZ

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 68

REMARKS: MZ Center

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			43		X								1
2	60			44	~~175~~									2
3	50			45			281							3
4	40			46			282							4
5	30			47			286							5
6	20			48			281							6
7	10			44			283							7
8	0			50			283							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		6

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	M2E STA. NAME/ID
07	56	56.29	N	163	48.72	W	06	OCT	18	05	33	.					70	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 61

REMARKS:

Jelly in S-I @ pycnocline - no good

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			51										1
2	50			52			281							2
3	40			53			282							3
4	30			54			285							4
5	20			55			281							5
6	10			56			283							6
7	0			57	100		283							7
8	0												Ladd Sample	8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		7

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD (kts)	BOTTOM DEPTH (m)	M24 STA. NAME/ID
08	57	0 .89	N	164	12.84	W	06	OCT	18	08	02	.					70	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 63

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	DOP/DOM >10 Vol	GFF Dup Vc >10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot		147	58				01					1
2	50			59	107		281						2
3	40			60			282						3
4	30			61			285						4
5	20			62			281						5
6	10			63			283						6
7	0			64			283						7
8	0											Lockd	8
9													9
10													10
11													11
12													12
I		Inline											I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	M4E STA. NAME/ID
009	57	45.64	N	168	27.34	W	07	OCT	18	06	05	.					71	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 68

REMARKS:

got a jelly is 1°Sal on the way up.

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot		148	65										1
2	50			66										2
3	40			67										3
4	30			68										4
5	20			69										5
6	10			70										6
7	0			71	209									7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		9

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	MHN STA. NAME/ID
010	58	03.91	N	168	44.04	W	07	OCT	18	09	10	.					70	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 65

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	SALT	Hydro Team-PMEL Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			72	197									1
2	50			73			281							2
3	40			74			282							3
4	30			75			285							4
5	20			76			281							5
6	10			77			283							6
7	0			78			283							7
8	0												Ladd	8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		10

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
01	57	55.67 N	169	19.32 W	07	OCT	18	12	03	.					67	MHW

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 62

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			79										1
2	50			80			281							2
3	40			81			282							3
4	30			82			285							4
5	20			83			281							5
6	10			84			283							6
7	0			85	241		283							7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		11

CONSC CAST #	LATITUDE		LONGITUDE					TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIN D SPD.	BOTTOM DEPTH	MHS STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
12	57	39.41 N	161	01.41 W	07	OCT	18	14	51	.					70	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 65

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl N	DIC/Alk	Chloro DOP/DON GFF Vol	>10 Large Vol	GFF Dup Vc >10 dup vol		POC 500 ml		Comments	Nis No.
1	Bot		x149	86	x172			002						1
2	50			87			281							2
3	40			88			282							3
4	~~30~~	~~—~~	~~—~~	~~88~~	~~—~~	~~—~~	0	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	mistrip	4
5	30			89			285							5
6	20			90			281							6
7	10			91			283							7
8	0			92			283							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		12

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	M4C STA. NAME/ID
13	57	51.91	N	168	53.07	W	07	OCT	18	18	18	.					70	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 65

REMARKS: M4
Pre-recovery Calibration cast

Recorder Initials:

Nis No	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			93										1
2	50			94			287*							2
3	40			95			288*							3
4	30			96			281							4
5	20			97			282							5
6	13c						285							6
7	13b			98			281							7
8	13a						283							8
9	0			99	*81		283							9
10														10
11														11
12														12
1		Inline												1

* may have warmed up

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		13

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	70MZ6 STA. NAME/ID
14	58	16.94	N	170	07.54	W	08	OCT	18	01	37	.					72	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 66

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			100	x220									1
2	50			101			281							2
3	40			102			282							3
4	30			103			285							4
5	20			104			281							5
6	10			105			283							6
7	0			106			283							7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		14

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	70N 30 STA. NAME/ID
15	58	56.41	N	170	19.37	W	08	OCT	18	06	57	.					71	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 65

REMARKS:

Not taken

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	DOP/DON >10 Large Vol	GFF Dup Vc >10 dup vol		POC 500 ml		Comments	Nis No.
1	Bot		150	107				03						1
2	50			108			281							2
3	40			109			282							3
4	30			110			285							4
5	20			111			281							5
6	10			112			283							6
7	0			113	375		283							7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		15

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
16	59	54.30	N	171	42.10	W	29	OCT	18	22	15	.					70	M5

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 64

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10-Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			114	284									1
2	50			115			288							2
3	40			116			287							3
4	30			117			281							4
5	18a			118			282							5
6	18b			119			285							6
7	18a			120			284							7
8	10			121			283							8
9	0			122			283							9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		16

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
17	59	53.89	N	171	15.77	W	10	OCT	18	01	50	.					71	MSE

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 64

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro DOP/DOM GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT		x157	123				003						1
2	50			124										2
3	40			125										3
4	30			126										4
5	20			127										5
6	10			128										6
7	0			129	x239									7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		17

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	MBS STA. NAME/ID
18	59	42.46	N	171	29.59	W	10	OCT	18	04	16	.					76	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 69

REMARKS:

1° Salt got biology @ 63m going down
No O2 Sample taken

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	DoP/DoV >10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			130				004						1
2	50			131										2
3	40			132										3
4	30			133										4
5	20			134										5
6	10			135										6
7	0			136										7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		18

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD (kts)	BOTTOM DEPTH (m)	M5N STA. NAME/ID
019	60	04.31	N	171	59.80	W	10	OCT	18	08	03	.					66	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 58

REMARKS:
A good profile for O2 lag calculation

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro DOP/DON GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot		152	137	312			005						1
2	50			138			281							2
3	40			139			282							3
4	30			140			285							4
5	20			141			281							5
6	10			142			283							6
7	0			143			283							7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		M19

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	MSW STA. NAME/ID
20	59	53.90	N	172	10.14	W	10	OCT	18	10	07	.					72	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 1.8

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro DOP/DOM GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No
1	Bot			144				006						1
2	50			145			281							2
3	40			146			282							3
4	30			147			285							4
5	20			148			284							5
6	10			149			283							6
7	0			150	x354		283							7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		20 19

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD (kts)	BOTTOM DEPTH (m)	70M412 STA. NAME/ID
21	60	02.15	N	173	00.43	W	0	CT	18	13	43	.					68	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 62

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro DOP/DON GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot		153	151	344			007						1
2	50			152			281							2
3	40			153		X	282							3
4	30			154			285							4
5	20			155			281							5
6	10			156			283							6
7	0			157		X	283							7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		21

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
22	60	13.43 N	172	31.79 W	20	OCT	18	16	49	.					50	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 47

REMARKS: For 18MT-3A calibration

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT		154	158										1
2	BOT		154		290		282							2
3	30			159			285							3
4	20			160			281							4
5	10			161			283							5
6	0			162			283							6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		22

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
23	60	15.13	N	173	31.29	W	10	OCT	18	23	32	.					69	70M44

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH 65

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			163										1
2	50			164			281							2
3	40			165			282							3
4	30			166			285							4
5	20			167			281							5
6	10			168			283							6
7	0			169	x357		283							7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
24	60	34.26	N	173	38.62	W	11	OCT	18	02	37	.					68	20M46

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 62

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT		155	170	108									1
2	50			171			281							2
3	40			172		X	282							3
4	30			173			285							4
5	20			174			281							5
6	10			175			283							6
7	0			176		X	283							7
8	0													8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		24

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	70M48 STA. NAME/ID
25	60	54.54	N	173	49.20	W	11	OCT	18	05	43	.					82	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 75

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	DOPPIO >10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			177				008						1
2	50			178			281							2
3	40			179			282							3
4	30			180			285							4
5	20			181			281							5
6	10			182			283							6
7	0			183	345		283							7
8														8
9														9
10														10
11														11
12														12
I		Intine												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		25

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	M8C STA. NAME/ID
26	57	11.91	N	174	40.41	W	11	OCT	18	22	29	.					72	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 30

REMARKS: M8C calibration cast

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot		156	184		XX								1
2	50			185			288							2
3	40			186			287							3
4	30			187			281							4
5	20d			188			282							5
6	20b			189			285							6
7	20a			190			281							7
8	10			191			283							8
9	0			192	349		283							9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE			LONGITUDE						TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIN D SPD.	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	.	N		.	W		O	C	T	1	8	.						

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL				Chloro				POC		Comments	Nis
No.	DESIRED		SALT	Nut.Btl	O2-Btl N	DIC/Alk	GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	500 ml			No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE		LONGITUDE					TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	. N		. W			OCT	18			.						

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL				Chloro				POC		Comments	Nis
No.	DESIRED		SALT	Nut.Btl	O2-Btl.N	DIC/Alk	GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	500 ml			No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE			LONGITUDE						TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	.		N	.		W		OCT	18			.						

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE		LONGITUDE					TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	. N		. W		OCT	18				.						

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Aquila	AQ1801	FOCI Fall Mooring Cruise		

CONSC CAST #	LATITUDE			LONGITUDE				TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN	WIND SPD	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY MO YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	.	N		.	W		OCT 18			.						

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL				Chloro				POC		Comments	Nis
No.	DESIRED		SALT	Nut.Btl	O2-Btl N	DIC/Alk	GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	500 ml			No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
1		Inline												1

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY1504	FOCI Spring Mooring Cruise		

CONSC CAST #	LATITUDE			LONGITUDE						TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	.		N	.		W						.						

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY1504	FOCI Spring Mooring Cruise		

CONSC CAST #	LATITUDE			LONGITUDE						TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIN D SPD	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	.		N	.		W						.						

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL				Chloro				POC		Comments	Nis
No.	DESIRED		SALT	Nut.Btl	O2-Btl.N	DIC/Alk	GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	500 ml			No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY1504	FOCI Spring Mooring Cruise		

CONSC CAST #	LATITUDE			LONGITUDE						TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIN D SPD	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	.	N		.	W							.						

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL				Chloro				POC		Comments	Nis
No.	DESIRED		SALT	Nut.Btl	O2-Btl.N	DIC/Alk	GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	500 ml			No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

Bering Sea sampling wish list 2018:

Desired sample types: I assume most locations will be non-bloom so it would be great to get at least 5-7 non-bloom samples from the surface and as many bloom or transition (bloom edges) samples as possible also from the surface.

This list describes my wish list for samples to take, with them listed in order of most important to least important. After priority 1 and 2 samples, if one of the listed samples is difficult or impossible to take with available effort and time, I will be happy with any of the other samples (order gets less important after 1 and 2).

Priority 1: Flow Cytometry

Supplies needed:

- Sampling bottle
- Frozen gluataraldehyde/formaldehyde fixative (10x)
- 50-100mL graduated cylinder

Protocol:

- Thaw fixative aliquot (5 mL/sample in 50 mL falcon tube) ~ .5 hr before sampling
- Label 50mL falcon tube containing thawed fixative with sample ID (make sure it can correlate with CTD cast and that bloom/non-bloom is recorded for each sample)
- Sample surface seawater from CTD rosette
- Measure 45 mL of surface seawater in graduated cylinder
- Pour seawater into 50mL falcon tube containing thawed fixative
- Invert gently until well mixed
- Let sit in the dark at ~ room temperature (or slightly colder) for ~20 min then put into -20C freezer for long term storage

Priority 2: DNA

Supplies needed:

- Sampling bottle
- Filter rig
- 47mm filter set up
- 500-1000mL graduated cylinder
- 1.2um polycarbonate filters (RTTP)
- 2 ml cryovials
- 200 um mesh (black pvc holder w/mesh)
- forceps

Protocol:

- Label empty 2 mL cryovial with sample ID and bloom state
- Prepare 47mm filter set up w/ 1.2 um filter installed **(wear gloves)**
- Sample surface seawater from CTD rosette
- Pre-filter seawater with 200 um mesh into graduated cylinder and measure 1L for non-bloom samples and 500 mL for bloom samples (if really dense and slowly filtering) – record volume filtered

EcoFOCI Salinity Analysis Data Sheet

Salinometer ID

Cruise:	Salt Case ID:	Analyst:	*Analysis Date/Time(GMT):*
Standard Batch #	*K15 std:*	*2Rt std(a):*	*2Rt std(b):*

General Comments:

Bath Temp:

Sample Temp:

	Cast	Niskin	Sample Btl. ID	2Rt (a)	2Rt (b)	2Rt (c)	2Rt (d)	2Rt (Aver.)	Salinity	Comment
1	01	1	145							
2	05	1	146							
3	08	1	147							
4	09	1	148							
5	12	1	149							
6	15	1	150							
7	17	1	151							
8	19	1	152							
9	21	1	153							
10	22	1	154							
11	24	1	155							
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Notes

EcoFOCI Salinity Analysis Data Sheet

Salinometer ID

Cruise:	Salt Case ID:	Analyst:	*Analysis Date/Time(GMT):*
Standard Batch #	*K15 std:*	*2Rt std(a):*	*2Rt std(b):* *Bath Temp:*
General Comments:			*Sample Temp:*

	Cast	Niskin	Sample Btl. ID	2Rt (a)	2Rt (b)	2Rt (c)	2Rt (d)	2Rt (Aver.)	Salinity	Comment
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Notes

Protocol:

- Label two petri dishes with sample ID and "20um filt" or "unfilt"
- Prepare 25mm filter set up w/ combusted GF/F filter installed **(wear gloves)**
- Sample surface seawater from CTD rosette
- For **20um filt** sample, prefilter seawater with 20um mesh into a graduated cylinder and measure out 500 mL or for **unfilt** sample, do not prefilter and measure 500 mL of whole seawater in graduated cylinder (in a bloom 300 mL will likely be enough)
- Filter water at between **10 – 15 inHg** until all water has gone through
- Use forceps to remove filter and place upright in the petri dish
- Tape the edges of the petri dish so the top and bottom stay together
- Store at -20C for long term storage

Priority 5: Fixed phytoplankton samples

Supplies needed:

- Sampling bottle
- Formalin (20 mL/sample) (on board, used for zooplankton fixation)
- 250mL PP bottle (Nalgene)
- 500 mL graduated cylinder
- Serological pipettes (25 mL)

Protocol:

- Label bottle with sample ID (using tape may be the easiest way to label the bottle?)
- Collect surface seawater from CTD rosette
- Measure out 230 mL of seawater in graduated cylinder, pour into 250mL PP bottle
- Use syringe to dispense 20 mL of formalin directly into sample (if confident of 20 mL measurement) or dispense formalin into an empty 50 mL falcon tube and use a serological pipette to measure out exactly 20 mL and add to sample (can re-use falcon tube for all samples)
- Invert sample gently
- Wrap parafilm around the lid to add extra protection from spillage and evaporation
- Store in a cool, dark place (inside a box should be fine)

Other notes:

- Rinsing all filtering equipment and graduated cylinders with milli-Q between stations is ideal
- Samples do not need to be filtered/sampled immediately after sampling from niskin, they are all OK to sit while other samples are taken
- Sampling for all samples into the 1L sampling bottles from the niskin and then measuring out exact volumes in the lab works well but be sure to mix sample bottle gently before measuring out volumes especially if sample has been sitting
- The 25mm and 47mm filter holders do not hold the total amount of water that is required to be filtered for most of these samples, so water will need to be added multiple times while filtering (plastic beakers can also be used for short term storage before/during filtering)
- For all samples, total water budget is ~2.4L but in a bloom less will be needed.

- Filter water at **~10-15 inHg**
- Once sample has been completely filtered, fold sample/roll sample carefully with forceps and place in 2 mL cryovial
- Freeze at -80C (or as cold as possible) for long term storage (in freezer box or ziplock bag is fine)
- Rinse filter set up and forceps with Milli-Q between samples

Priority 3: SEM **(not necessary for every station but for just a couple of bloom stations)**

Supplies needed:

- Sampling bottle
- Filter rig
- 13mm filter set up
- 50-100mL graduated cylinder
- 0.4um polycarbonate filters (HTTP)
- Petri slides
- Razor blade
- Forceps

Protocol:

- Label petri slide with sample ID and bloom state
- Prepare filter set up (these filters are a bit finicky and can easily get offset on the filter holder, before adding water make sure the filter is centered on the holder so water does not leak around the filter)
- Sample surface seawater from CTD rosette
- Measure 50 (bloom) or 100 mL (non-bloom) into graduated cylinder
- Filter seawater gently (keep pressure around **~5 inHg** on pump)
- Once sample has filtered completely, carefully remove filter with forceps and razor blade and place face up in petri slide
- Place lid on top without closing petri slide completely, let filter air dry overnight then close lid completely and store at room temperature for long term storage
- Stacking and taping all petri slides together at the end of the cruise is a good way to transport these samples

Priority 4: size fractionated POC

Supplies needed:

- Sampling bottle
- Filter rig
- 25mm filter set up
- 500 mL graduated cylinder
- 25mm combusted GF/F filters
- Forceps
- 20 um mesh (black pvc holder w/ mesh)
- Petri dishes
- Tape