Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
1	MILLER FREEMAN	MF90-04 FOCI90-02	75	G079A	FOX-61	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	Min.	E or W	Date JD = Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D
001	57	42.00	N	155	16.28	W	08	MAY	90	1302		05.8	05.8	1018.1	3	8	16	16	9	-	5	0294	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		6.7
Temp.		4.930
Cond.		31.454
Other		

Times JD/Time

Data on 1250
at Surface 1252
Start Down 1252
at Bottom 1303
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.:
File Name/Header: Dub2:(data log) SBE_CTD.SCS;2

Remarks:

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60			61.0	4.705	32.027									16		1
2	21		50			52.2	4.567	31.906											2
3	22		40			40.4	4.360	31.749											3
4	23		30			30.3	4.578	31.584											4
5	24		20			20.3	4.596	31.533											5
6	25		10			10.6	4.696	31.443											6
7																			7
8																			8
9																			9
10																			10
11																			11
12		B		1303		241.0	3.933	32.579							4.08	32.593	16		12

Initials AM

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
2	MILLER FREEMAN	MF90-04 FOCI90-02	79	GOZO A+B	FOX 60	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
002	57	40.86	N	155	W	08	MAY	90	15	24	07.0	06.8	1019.0	2	7	09	05	05	8	75	289

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		7.5
Temp.		4.855
Cond.		31.389
Other		

Times JD/Time

Data on
at Surface
Start Down
at Bottom
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.

File Name/Header
Dub2:(data log)
SBE_CTD.SCS;3

Remarks wireout 271

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60			59.1	4.657	32.003											1
2	21		50			50.7	4.673	31.955											2
3	22		40			40.8	4.359	31.797											3
4	23		30			29.7	4.700	31.659											4
5	24		20			19.9	4.652	31.443											5
6	25		10			10.1	4.831	31.398											6
7																			7
8																			8
9																			9
10																			10
11																			11
12	SAL	K				276.9	4.769	33.026								33.031	25		12

Initials GM

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
3	MILLER FREEMAN	MF90-04 FOCI90-02	87	GOZIA	FOX 59	

Consec. Cast #	Latitude Deg.	Latitude Min.	N or S	Longitude Deg.	E or W	Date Day	Date Mo.	Date Yr.	Time GMT Hr.	Time GMT Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
003	57	38.42	N	155	04.21	08	MAY	90	18	07	07.5	07.5	1020	2	5	07	08	09	7	254	

CTD PMEL/SEABIRD

Type & SN 91220-A

Press. SN 25084

Temp. SN 701

Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		7.9
Temp.		5.609
Cond.		31.249
Other		

Times JD/Time

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data off

Data Location

Tape/Diskette I.D.

File Name/Header

Dub2:(data log)

SBE_CTD.SCS;4

Remarks w out 233

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	~~Temp.~~	~~Cond.~~	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	BKG		150	1812	1814	150.2 DB													1
2	"		100	1815	1817	100.7 DB													2
3	"		50	1819	1821	50.6 DB													3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12	SAL					240.0	4.650	32955								32.964	19		12

150
100
50

Initials GM

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
4	MILLER FREEMAN	MF90-04 FOCI90-02	91	GO22A	FOX58	

Consec. Cast #	Latitude Deg.	Latitude Min.	N or S	Longitude Deg.	Longitude Min.	E or W	Date Day	Date Mo.	Date Yr.	Time GMT Hr.	Time GMT Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
04	57	36.22	N	155	00.75	W	08	MAY	90	20	01	07.1	06.9	1020.1	27	17	070	08	8	7	241	

CTD PMEL/SEABIRD

Type & SN 91220-A

Press. SN 25084

Temp. SN 701

Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		8.4
Temp.		5.804
Cond.	Sal	31.866
Other		

Times JD/Time

Data on

at Surface

Start Down 19:53

at Bottom 20:01

Start Up 20:01:30

at Surface

Data off

Data Location

Tape/Diskette I.D.

File Name/Header: Dub2:(data log) SBE CTD.SCS; 6

Remarks

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Monitor Values Temp.	Monitor Values Cond.	Monitor Values Other	Conv. Mon. Values-CTD Press.	Conv. Mon. Values-CTD Temp.	Conv. Mon. Values-CTD Cond.	Conv. Mon. Values-CTD Sal.	Sample Bot.Data Therm-P	Sample Bot.Data Avg Tw	Sample Bot.Data Sal.	Sal. Bot. #	Other Samp.	Pos.
1	T	B		02:02:30	02:08:48					205.8	4.176		32.732		4.17	32.740	30		1
2	20		60		20:12:56					61.4	3.985		32.201						2
3	21		50		20:14:23					50.3	4.506		32.208						3
4	22		40		20:15:46					41.2	4.280		32.153						4
5	23		30		20:16:56					31.7	4.970		32.152						5
6	24		20		20:18:20					19.2	5.723		31.950						6
7	25		10		20:19:39					10.0	5.809		31.823						7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
05	MILLER FREEMAN	MF90-04 FOCI90-02			Mooring # M89-2	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = 128 Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D
05	57	36.92	N	155	05.96	W	08	MAY	90	21	45	7.8	7.5	1020.5	05	27	000	000	08	7	2	259

CTD PMEL/SEABIRD

Type & SN 91220-A

Press. SN 25084

Temp. SN 701

Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		8.9
Temp.		5.877
Cond.		31.914 Sal
Other		

Times JD/Time

Data on

at Surface

Start Down 21:37

at Bottom

Start Up

at Surface

Data off

Data Location

Tape/Diskette I.D.

File Name/Header

Dub2:(data log)

SBE_CTD.SCS;7

Remarks

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	6				21:47:07					250.9	4.571		32.914			32.922	27		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WR

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
06	MILLER FREEMAN	MF90-04 FOCI90-02	97		Fox 57	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = 128 Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
06	57	33.14	N	154 52.45	W	08	MAY	90	23	31	08.7	08.0	1020.5	5	27	06	04	8	7	235	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		7.9
Temp.		5.401
Cond.		31.647 sal
Other		

Times JD/Time

Data on
at Surface
Start Down 23:24:10
at Bottom
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.

File Name/Header
Dub2:(data log)
SBE CTD.SCS; 8

Remarks
no mz This station

pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	pos.
1	6				23:32:16					228.6	4.342		32.811			32.792	02		1
2	20		50																2
3	21		50																3
4	22		40																4
5	23		30																5
6	24		20																6
7	25		10																7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
07	MILLER FREEMAN	MF90-04 FOCI90-02	98		Fox 56	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = 129 Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
07	57	30.55	N	154	46.65	W	09	MAY	90	00	14	7.8	7.5	1020.1	2	7	050	14	8	72	201

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		6.6
Temp.		5.304
Cond.		31.691
Other		

Times JD/Time

Data on
at Surface
Start Down 09:20
at Bottom 00:15:45
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log) SBE_CTD.SCS;9

Remarks

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	T	B		00:17:20	00:22:22					156.4	3.486		32.486		3.47	32.494	20		1
2	20		60							60.4	4.583		32.248						2
3	21		50		00:26:41					51.3	4.630		32.202						3
4	22		40		00:28:14					41.2	4.683		32.188						4
5	23		30		00:29:22					30.5	5.023		32.056						5
6	24		20		00:30:23					21.0	5.165		31.840						6
7	25		10		00:31:22					10.2	5.232		31.709						7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
8	MILLER FREEMAN	MF90-04 FOCI90-02	102		Fox 55	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = 129 Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
08	57	28.48	N	154	42.68	W	09	MAY	90	02	25	7.9	7.5	1020.5	2	27	010	10	8	72	70

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		7.0
Temp.		5.296
Cond.		31.763 sal
Other		

Times JD/Time

Data on
at Surface
Start Down 02:24:25
at Bottom 02:26:30
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log); SBE CTD.SCS;11

Remarks: did this cast twice, rosette tripper mis-fired.

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	6				26:34					63.8	4.248	32.220				32.229	10		1
2	20	60	60		27:40					59.9	4.283	32.222							2
3	21		50		29:08					50.3	4.316	32.164							3
4	22		40		30:17					40.1	4.419	32.118							4
5	23		30		31:19					30.4	4.604	32.050							5
6	24		20		32:26					21.2	4.820	31.983							6
7	25		10		33.29					10.0	5.350	31.707							7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
09	MILLER FREEMAN	MF90-04 FOCI90-02	148		F23	

Consec. Cast #	Latitude Deg. Min. N or S	Longitude Deg. E or W	Date JD = 129 Day Mo. Yr.	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
09	56 55.10 N	155 39.81 W	09 MAY 90	23 21	6.8	6.9	1020.5	3	4	120	10	8	24	291	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		6.7
Temp.		5.363
Cond.		31.617
Other		

Times JD/Time

Data on
at Surface
Start Down 23:18:20
at Bottom 23:22:15
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log) SBE CTD.SCS;12

Remarks

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	6		108		23:22:30					108.4	4.373		32.317			32.327	12		1
2	20		60		23:24:15					60.8	4.380		32.138						2
3	21		50		23:25:22					50.7	4.429		32.080						3
4	22		40		23:26:26					41.7	4.379		31.951						4
5	23		30		23:27:29					30.6	4.267		31.882						5
6	24		20		23:29:28					20.7	4.459		31.818						6
7	25		10		23:29:23					11.0	5.232		31.638						7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
10	MILLER FREEMAN	MF90-04 FOCI90-02	153		mooring 90-26-27	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date Day	Mo.	Yr.	JD = 130	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
10	56	46.85	N	155	29.59	W	10	MAY	90	01	51	7.3	7.1	1020.0	3	4	130	10	8	6	4	251	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		6.9
Temp.		5.771
Cond.		31.838 Sal
Other		

Times JD/Time

Data on
at Surface
Start Down 01:44:55
at Bottom 01:52:42
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log); SBE CTD.SCS;13

Remarks

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	T	B	230	01:53:40	01:58:51					229.7	4.902	33.132			4.90	33.131	03		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
11	MILLER FREEMAN	MF90-04 FOCI90-02	163		-------	H 2

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	Min.	E or W	Date JD = 130 Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
011	56	40.84	N	155	38.31	W	10	MAY	90	08	41	05.6	05.6	1020.0	3	5	160	08	9	6	246	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		6.6
Temp.		5.211
Cond.		31.639
Other		

Times JD/Time

Data on
at Surface
Start Down
at Bottom
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.

File Name/Header
Dub2:(data log)
SBE CTD.SCS;14

Remarks w/o 95

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60			59.7	4.079	31.929											1
2	21		50			50.3	4.273	31.857											2
3	22		40			41.2	4.276	31.834											3
4	23		30			30.6	4.405	31.738											4
5	24		20			21.2	4.683	31.646											5
6	25		10			11.4	5.327	31.643											6
7																			7
8																			8
9																			9
10																			10
11																			11
12						99.9	3.967	32.168								32.176	09		12

Initials JM

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
12	MILLER FREEMAN	MF90-04 FOCI90-02	172			F29

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	Min.	E or W	Date JD = Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
012	56	47.74	N	155	18.1	W	19	MAY	90	11	26	05	05	05	1019.8	3	6	160	09	-2	307	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		6.4
Temp.		5.252
Cond.		31.633
Other		

Times JD/Time

Data on
at Surface
Start Down
at Bottom
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.:
File Name/Header: Dub2:(data log); SBE_CTD.SCS;15

Remarks WO 95

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60			62.2	4.1007	31.971											1
2	21		50			50.6	4.767	31.964											2
3	22		40			40.5	4.817	31.944											3
4	23		30			30.9	4.744	31.860											4
5	24		20			19.9	5.042	31.687											5
6	25		10			10.7	5.265	31.637											6
7																			7
8																			8
9																			9
10																			10
11																			11
12	SAL					180.8	4383	22.102								32.083	33		12

Initials AM

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
13	MILLER FREEMAN	MF90-04 FOCI90-02	204		-------	G20

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = 131 Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb 1020.5	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
013	56	40.16	N	155	W	11	MAY	90	00	49	6.4	5.4	05	3	7	205	11	9	7	284	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		9.3
Temp.		4.937
Cond.		31.629 sal
Other		

Times JD/Time

Data on
at Surface
Start Down 00:44:25
at Bottom 00:47:40
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log) SBE_CTD.SCS;76

Remarks

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	T	B		00:47:40	00:52:52					103.6	4.481		32.101		4.41	32.101	13		1
2	20	60	60		54:47					61.6	4.258		31.806						2
3	21		50		55:39					50.6	3.866		31.728						3
4	22		40		56:38					39.9	4.049		31.714						4
5	23		30		57:45					30.8	4.140		31.643						5
6	24		20		58:44					20.8	4.871		31.616						6
7	25		10		00:59:41					11.2	4.947		31.617						7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
14	MILLER FREEMAN	MF90-04 FOCI90-02	211		H17	

Consec. Cast #	Latitude Deg. Min. N or S	Longitude Deg. E or W	Date JD = 131 Day Mo. Yr.	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
14	56 25.02 N	156 05.30 W	11 MAY 90	03 47	6.5	6.5	1021.0	3	7	23	18	9	7	259	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		7.3
Temp.		5.206
Cond.		31.697
Other		

Times JD/Time

Data on
at Surface
Start Down 03:44:51
at Bottom 03:48:32
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.

File Name/Header
Dub2:(data log)
SBE_CTD.SCS;17

Remarks misFire on Tripper at 60m
S&S cont #14A

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	6			104	03:48:4					104.2	3.736		32.207			32.208	06		1
2	20		~~60~~							~~60.2~~	~~4.063~~		~~32.101~~						2
3	21		50		52:07					50.6	4.152		32.046						3
4	22		40		53:09					39.8	4.302		31.969						4
5	23		30		54:18					30.8	4.653		31.845						5
6	24		20		55:16					20.3	4.488		31.689						6
7	25		10		56:29					10.6	5.355		31.697						7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
14A	MILLER FREEMAN	MF90-04 FOCI90-02	213			

Processed as cast 15

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date Day	Mo.	Yr.	JD = 131	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
14A	56	24.95	N	156 05.21	W	11	MAY	90		04	30	6.5	6.5	1021.0	3	7	23	18	9	7	259	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		7.1
Temp.		5.324
Cond.		31.691
Other		

Times JD/Time

Data on
at Surface
Start Down 04:29:16
at Bottom 04:31:23
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log) SBE CTD.SCS;18

Remarks cont to 60m to pick up the 60m micro 200 sample, misFire on cast #14

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60m		04:31:37	61.3				61.3	4.149		32.101				none		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Processed as Cast # 16

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
15	MILLER FREEMAN	MF90-04 FOCI90-02	243	D17	------	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = 131 Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
015	56	38.83	N	163	48.83	11	MAY	90	18	35	05.1	04.7	1020.9	2	8	307	14.9	7	2	160	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		6.1
Temp.		5.094
Cond.		31.624
Other		

Times JD/Time

Data on
at Surface
Start Down
at Bottom
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log) SBE CTD.SCS; 19

Remarks WO 94

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60			60.1	4.323	31.852											1
2	21		50			49.6	4.427	31.759											2
3	22		40			40.4	4.500	31.701											3
4	23		30			29.4	4.800	31.661											4
5	24		20			19.4	5.078	31.623											5
6	25		10			10.2	5.098	31.623											6
7																			7
8																			8
9																			9
10																			10
11																			11
12		SAL				101.3	4.135	32.240								32.260	26		12

Initials GM

Processed as cast # 17

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
16	MILLER FREEMAN	MF90-04 FOCI90-02	255			

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = 132 Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
16	56	27.64	N	158	29 W	12	MAY	90	00	22	5.1	4.9	1019.9	3	7	155	15	9	72	75	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		7.5
Temp.		4.162
Cond.		31.793 sal
Other		

Times JD/Time

Data on
at Surface
Start Down 00:20:42
at Bottom 00:22:50
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log) SBE_CTD.SCS;20

Remarks

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	T	B		00:23:40	00:28:46					57.1	3.900		31.853		3.88	31.958	21		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Processed as cast # 18

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
17	MILLER FREEMAN	MF90-04 FOCI90-02	258			

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date Day	Mo.	Yr.	JD = 132	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
17	56	21.82	N	165	46.66	W	12	MAY	90	01	50	4.7	4.7	1019.5	9	3	6	12	8	15	9	74	134	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		5.9
Temp.		4.470
Cond.		31.817 Sal
Other		

Times JD/Time

Data on
at Surface
Start Down 01:46:19
at Bottom 01:50:30
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.
File Name/Header: Dub2:(data log) SBE_CTD.SCS;21

Remarks

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	6				01:50:57					131.1	3.320		31.935			32.010	22		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
18A	MILLER FREEMAN	MF90-04 FOCI90-02	274			

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date Day	Mo.	Yr.	JD = 132	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D
018	56	38.47	N	156	02.31	12	MAY	90		13	42	07.0	07.0	1020.8		3	5	18	01	4	-	4	304

No data to process

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks	on Deck	at Surface
Press.		6.6
Temp.		4.972
Cond.		31.617
Other		

Times	JD/Time
Data on	131
at Surface	
Start Down	
at Bottom	
Start Up	
at Surface	
Data off	

Data Location

Tape/Diskette I.D.:

File Name/Header: Dub2:(data log) SBE_CTD.SCS;22

Remarks WO 289

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		200			201.0	3.869	32.402											1
2	21		150			150.1	4.071	32.203											2
3	22		100			100.8	4.281	32.025											3
4	23		80			80.1	4.129	31.905											4
5	24		60			60.5	4.124	31.818											5
6	25		50			49.9	4.479	31.827											6
7	26		40			40.7	4.193	31.758											7
8	27		30			30.4	4.093	31.648											8
9	28		20			20.1	4.929	31.611											9
10	29		10			10.1	4.951	31.614											10
11																			11
12	SAL					290.2	4.783	33.136								33.236	15		12

Initials GM

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
18B	MILLER FREEMAN	MF90-04 FOCI90-02			———	

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
			N		W		MAY	90													

No data to process

CTD PMEL/SEABIRD

Type & SN 91220-A

Press. SN 25084

Temp. SN 701

Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		
Temp.		
Cond.		
Other		

Times JD/Time

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data off

Data Location

Tape/Diskette I.D.

File Name/Header

Dub2:(data log)

SBE_CTD.SCS; 23

Remarks WO 30

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1				30		30.9	4.157	31.682									—		1
2																			2
3										This Cast only to get the 30m Sample									3
4										missed on 18A due to open bottom on									4
5										bottle #27 This file not backed up									5
6										on MyAO!									6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials GM

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
19	MILLER FREEMAN	MF90-04 FOCI90-02	302		———	

processed as cast #19

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date Day	Mo.	Yr.	JD = 133	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
019	55	46.80	N	156	16.87	W	13	MAY	90	03	07	7.0	7.0	1021.2	3	8	17	21	05	7	247	

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		7.7
Temp.		5.129
Cond.		31.743 Sal
Other		

Times JD/Time

Data on
at Surface
Start Down 02:59:26
at Bottom 03:03:11
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.

File Name/Header
Dub2:(data log)
SBE_CTD.SCS;24

Remarks To 100m only
micro zoo

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	1	9		03:03:11	03:08:16					106.6	4.517		32.477		4.50	32.554	35		1
2	20		60	03:09:50						59.6	3.795		32.168						2
3	21		50	03:10:49						52.1	3.618		32.099						3
4	22		40	03:11:59						38.8	3.392		32.018						4
5	23		30	03:13:03						30.3	3.940		31.965						5
6	24		20	03:14:08						20.4	4.846		31.901						6
7	25		10	03:15:10						10.0	5.302		31.728						7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials WF

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
20	MILLER FREEMAN	MF90-04 FOCI90-02	318		———	L010A

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date Day	Mo.	Yr.	JD = 133	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
020	56	23.99	N	157	27.91	W	13	MAY	90	11	13	047	049	1021.0	3	8	175	19	9	-1		

CTD PMEL/SEABIRD

Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		5.3
Temp.		3.757
Cond.		31.788
Other		

Times JD/Time

Data on
at Surface
Start Down
at Bottom
Start Up
at Surface
Data off

Data Location

Tape/Diskette I.D.

File Name/Header
Dub2:(data log)
SBE CTD.SCS; 25

Remarks W0 96

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60			60.5	3.477	31.827									23		1
2	21		50			50.4	3.479	31.828											2
3	22		40			40.4	3.517	31.828											3
4	23		30			29.6	3.520	31.823											4
5	24		20			20.7	3.572	31.816											5
6	25		10			10.4	3.683	31.797											6
7																			7
8																			8
9																			9
10																			10
11																			11
12	4					101.7	3.264	31.829								31.918	23		12

Initials

Consec. Cast #	Vessel	Proj. & Leg	Event #	Vessel Sta. I.D.	Instructions	Sta. Designation
20A	MILLER FREEMAN	MF90-04 FOCI90-02				

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
20A			N		W		MAY	90													

CTD PMEL/SEABIRD
Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks

	on Deck	at Surface
Press.		
Temp.		
Cond.		
Other		

Times JD/Time
Data on
at Surface
Start Down
at Bottom
Start Up
at Surface
Data off

Data Location
Tape/Diskette I.D.
File Name/Header
Dub2:(data log)
SBE CTD.SCS; 26

Remarks WO 94

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1										Calibration only this file not recorded on									1
2										MUAO:									2
3										cast used to calibrate the Seamon									3
4										Depths units; not logged in the MOA									4
5										on a CTD cast But does have an SCS									5
6										File # 26.									6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials GM

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
21	MILLER FREEMAN	MF90-04 FOCI90-02	413			M89-3

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
021	59	02.24	N	152	04.00	W	15	MAY	90	08	07	09.2	09.0	1022.0	3	8	110	14	9	-2	188	M893-1

CTD PMEL/SEABIRD
Type & SN 91220-A
Press. SN 25084
Temp. SN 701
Cond. SN 303

Monitor Checks	on Deck	at Surface
Press.		8.2
Temp.		5.679
Cond.		32.033
Other		

Times JD/Time
Data on
at Surface
Start Down
at Bottom
Start Up
at Surface
Data off

Data Location
Tape/Diskette I.D.
File Name/Header
Dub2:(data log)
SBE CTD.SCS; 27

Remarks WO170

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60																1
2	21		50																2
3	22		40																3
4	23		30																4
5	24		20																5
6	25		10			10.2	5.707	32.034											6
7																			7
8																			8
9																			9
10																			10
11						/													11
12		B		0809	0814	171.2	5.337	32.209							5.34	32.292	16		12

Initials

Consec. Cast #	Vessel	Proj. & Leg	Event#	Vessel Sta. I.D.	Instructions	Sta. Designation
22	MILLER FREEMAN	MF90-04 FOCI90-02	4/6			G078A

Consec. Cast #	Latitude Deg.	Min.	N or S	Longitude Deg.	E or W	Date JD = Day	Mo.	Yr.	Time GMT Hr.	Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D
22	57	02	31 N	152	18 05 W	15	MAY	90	09	51	07	07	1022.0	3	5	12	14	9	-4	124	

CTD PMEL/SEABIRD

Type & SN 91220-A

Press. SN 25084

Temp. SN 701

Cond. SN 303

Monitor Checks	on Deck	at Surface
Press.		7.7
Temp.		5.960
Cond.		31.857
Other		

Times	JD/Time
Data on	
at Surface	
Start Down	
at Bottom	
Start Up	
at Surface	
Data off	

Data Location

Tape/Diskette I.D.:

File Name/Header: Dub2:(data log) SBE CTD.SCS; 28

Remarks W093

Pos.	Bot.	T Rack	Trip Depth	Time @ Depth	Time @ Trip	Monitor Values Press.	Temp.	Cond.	Other	Conv. Mon. Values-CTD Press.	Temp.	Cond.	Sal.	Sample Bot.Data Therm-P	Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	20		60			60.5	5.443	31.931											1
2	21		50			49.9	5.440	31.922											2
3	22		40			40.4	5.443	31.918											3
4	23		30			30.5	5.473	31.911											4
5	24		20			20.0	5.738	31.863											5
6	25		10			10.3	5.969	31.858											6
7																			7
8																			8
9																			9
10																			10
11																			11
12	SAL					101.3	5.433	32.005								32.080	30		12

Initials