VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBE10

deck prod

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
003	55 25.08 N	164 20.44 W	26 MAY 98	21 13	.	.								98	SBE10

Seacat sensors
T 737
C 369
F 275

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Sts 1 & 2 near Seward/not for this cruise
PRESS SN	p5040 5040	START DOWN				
TEMP SN	t1390	AT DEPTH				Deck prod Cast 1
COND SN	c501 c1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR 4516 [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	13										✓
2	13										✓
3	13										✓
4	13										✓
5	13										✓
6	SFL										✓
7	SFL										✓
8	SFL										✓
9	SFL										✓
10	SFL										✓
11											
12											

PAR is hybrid Zeo 9774
Need to recalibrate PAR before processing

Deck prod water collection

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBE10

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
004	5524.97N	164 19.97W	26 MAY 98	2143	.	.								98	SBE10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	In Situ
PRESS SN	p5040 5040	START DOWN				prods
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	20										✓
2	Chl (13)										✓
3	10										✓
4	5										✓
5	SG.										
6											
7											
8											
9											
10											
11											
12											

In situ prod. water

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBE10

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	55 55.50 N	164 19.85 W	26 MAY 98	2204	.	.									98	SBE10

T 3.5 - 4.9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p50405 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	95						005 01	11			
2	75							10			
3	50							9	✓		
4	40							8	✓		
5	30							7	✓		
6	20							6	✓		
7	Max							5	✓		
8	Max									✓	
9	10							4	✓		
10	0							3	✓		
11	0							4		✓	
12											

cmlD

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBEP

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	65520.18N	164156.6W	27MAY98	0024	.	.									96	SBEP

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	PAR cap on.
PRESS SN	p5040 5040	START DOWN				oops
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

T 4.79 – 3.76

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	92						006 01	19			
2	75							18			
3	50							17	✓		
4	40							16			
5	30							15			
6	20							14			
7	10 (max)							13	✓		
8	0							12	✓		
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBE6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	75 15.27 N	164 11.70 W	27 MAY 98	01 11	.	.									74	SBE6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 c1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

Loss structure
4.77 s
4.3 al 40
4.5 b

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	70							28	✓		
2	60 ✓							27			
3	50 ✓							26	✓		
4	40 ✓							25			
5	30 ✓							24			
6	20 ✓							23			
7	15							22			
8	10							21	✓		
9	0 ✓							20	✓		
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBE5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	8 55 12.84 N	164 09.64 W	27 MAY 98	0139	.	.									64	SBE5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50401	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

1/10° only

50
40
30

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	58						008 01	35	✓		
2	50							34			
3	40 ✓							33	✓		
4	30 ✓							32			
5	20							31	✓		
6	10 ✓							30			
7	0							29	✓		
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBE4

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
9	55 10.37 N	164 07.63 W	27 MAY 98	0206	.	.									54	SBE4

4.8 to

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p50405 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	50							41	✓		
2	40							40			
3	30							39			
4	20							38	✓		
5	10							37			
6	0							36			
7	0										
8									✓	✓	
9											
10											
11											
12											

pass 2 at bott.

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		S13E2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	10 55 05.49 N	164 03.62 W	27 MAY 98	0249	.	.									41	S13E2

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50401	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	38						010 01	46	✓		
2	30							45			
3	20							44	✓		
4	10							43			
5	0							42	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBE1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
11	55 03.02 N	164 01.53 W	27 MAY 98	0315	.	.									27	SBE1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p50405 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	25							53	✓		
2	20							52			
3	15							51			
4	10							50			
5	5							49			
6	0							48	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	12 55 05.94 N	163 51.28 W	27 MAY 98	04 45	.	.									28	SBC1

T Prins.
T volts 4.521
O blocked

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Calvert all
PRESS SN	50405 p50405	START DOWN				stns Inv C
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Zee Other
1	24						012 01	50	✓		✓
2	20							57			
3	15							56			✓ (max)
4	10							55			
5	0							54	✓	✓	✓
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		53C2

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	13 55 08.25 N	163 53.37 W	27 MAY 98	0529	.	.									33	53C2

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	30							62	✓		✓
2	20							61			
3	10							60			✓ (?) m
4	0							59	✓		✓
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		3BC3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
14	55 10.62 N	163 55.47 W	27 MAY 98	0602	.	.									44	3BC3

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	39 ✓							67	✓		✓
2	30 ✓						014 02	66			
3	20 ✓							65			
4	10 ✓							64			?
5	0							63	✓		✓
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	15 55 13.12 N	163 57.43 W	27 MAY 98	0635	.	.									54	SBC4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p50405 (50405)	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 (c1123)	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	49 ✓							73	✓		
2	40 ✓						01 02	72			
3	30 ✓							71			
4	20 ✓							70			
5	10 ✓							69			
6	0							68	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC5

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	16 55 15.53 N	163 59.41 W	27 MAY 98	07 11	.	.									59	SBC5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	55							79	✓		✓
2	40							78			
3	30							77			
4	20							76			
5	10							75			
6	0							74	✓		✓
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		53C6

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	75517.98N	16401.39W	27MAY98	0750	.	.									77	53C6 7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	First cast w/
PRESS SN	p5040	START DOWN				DT
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other DOC
1	71						017 01	86			
2	50							85			
3	40							84			
4	30							83	✓		
5	20							82			
6	10							81	✓		
7	0							80	✓		
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC7

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	85520.41 N	16403.33 W	27 MAY 98	0840	.	.									84	SBC7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	79						018 01	93			
2	50							92			
3	40							91			
4	30							90			
5	20							89	✓		
6	10							88			
7	0							87	✓		
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		3C8

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	19 55 22.82 N	164 05.36 W	27 MAY 98	09 18	.	.								95	3C8

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	90							101			
2	75							100			
3	50							99			
4	40							98			
5	30							97			
6	20							96			
7	10							95	✓		
8	0							94	✓		
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	20 55 25.33 N	164 07.40 W	27 MAY 98	1007	.	.									97	SBC9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	got jelly in cond. cell (upcast)
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	DOC Other
1	91 ✓						020 01	109			
2	75 ✓							108			
3	50 ✓							107			
4	40 ✓							106			
5	30 ✓							105	✓		
6	20 ✓							104			
7	10 ✓							103	✓		
8	0							102	✓		
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC10

CON SC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= (DAY MO YR)	TIME (GMT) (HR MIN)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	2155 27.78 N	164 09.44 W	27 MAY 98	1057	.	.									98	SBC10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Jelly in cond 2
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	DOC Other
1	92✓							117			
2	75✓						021 022	116			
3	50✓							115			
4	40✓							114			
5	30✓							113			
6	20✓							112			
7	10✓							111	✓		
8	0							110	✓		
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC11

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
22	5530.13N	164 11.25W	27 MAY 98	1138	.	.									9	9 SBC11

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	94							125			
2	75							124			
3	50							123			
4	40							122			
5	30							121			
6	20							120			
7	10							119	✓		
8	0							118	✓		
9											
10											
11											
12											

poss 2 at bott.

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	22 50 8.21 N	163 53.48 W	27 MAY 98	1856	.	.										SBC2

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other Deck Prod
1	9 ✓										
2	9 ✓										
3	9 ✓										
4	9 ✓										
5	9 ✓										
6	5 ✓										
7	5 ✓										
8	5 ✓										
9	5 ✓										
10	5 ✓										
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	24 55 08.02 N	163 53.33 W	27 MAY 98	1922	.	.										

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	In situ peaks
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	15										
2	10										
3	5										
4	0										
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBA6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	25 55 20.77 N	163 51.15 W	28 MAY 98	1334	.	.										SBA6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other Deck Prod
1	21										
2	21										
3	21										
4	21										
5	21										
6	5										
7	5										
8	5										
9	5										
10	5										
11											
12											

25 → Deck pads

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC1

28 May 06:00Z → Trans 4,502 V open 0 V blocked

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	26 56 31.54 N	159 59.64 W	29 MAY 98	0520	.	.										PMC1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	DOC is at top bottom + chlor. max
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	20						226	128	✓		✓
2	10							127	✓		✓
3	5 ft							126	✓		✓
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
27	5633.56 N	16002.77 W	29 MAY 98	0547	.	.									29	PMC2

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	DOC Other
1	20							134	✓		✓
2	20							133			
3	15							132			
4	10							131	✓		
5	5							130			
6	0							129	✓		
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC3

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	28 56 35.64 N	160 05 92 W	29 MAY 98	0621	.	.									42	PMC3

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	T & S sheet
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	39							139	✓		
2	30						028 022	138			
3	20							137			
4	10							136			
5	0							135	✓		
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	29 56 37.73 N	160 09.08 W	29 MAY 98	0653	.	.								47	PMC4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	will mixed
PRESS SN	p5040	START DOWN				shallowed not
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	DOC Other
1	~~40~~ 43							145	✓		
2	~~35~~ 43							144			
3	~~30~~ 30							143			
4	20							142			
5	10							141	✓		
6	0							140			
7											
8											
9											
10											
11											
12											

2 cast?

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	30 56 39.8 N	160 12.1 W	29 MAY 98	0727	.	.									50	PMC5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	46						030 21	150	✓		
2	30							149			
3	20							148	✓		
4	10							147			
5	0							146	✓		
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
3	15641.85N	16015.12W	29 MAY 98	0800	.	.								61	PMC6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	50							156	✓		
2	40							155			
3	30							154			
4	20							153			
5	10							152			
6	0							151	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC7

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	32 56 43.94 N	160 18.42 W	29 MAY 98	2836	.	.								61	PMC7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	55						032 31	162	✓		
2	40							161			
3	30							160			
4	20							159			
5	10							158			
6	0							157	✓		
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC8

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	33 56 45.99 N	116 02 .53 W	29 MAY 98	09 10	.	.								63	PMC8

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	59							168	✓		
2	40							167			
3	30							166	✓		
4	20							165			
5	10							164			
6	0							163	✓		
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC9

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	34 56.48.05 N	160 24.67 W	29 MAY 98	0944	.	.									69	PMC9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other DOC T,B(max)
1	64						034	174	✓		
2	40							173			
3	30							172			
4	20							171			
5	10							170			
6	0							169	✓		
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC10

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	35 56.0.13N	160 27.8 W	29 MAY 98	1019	.	.								67	PMC10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5049	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH := m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR	CHL.	HPLC	DOC Other
1	63							180	✓		
2	40							179			
3	30							178			
4	20							177			
5	10							176			
6	0							175	✓		
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	36 56.21 N	160 31.02 W	29 MAY 98	1056	.	.						68	PMC11

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Doc Other
1	64						036 01	186	✓		
2	40							185			
3	30							184			
4	20							183			
5	10							182			
6	0							181	✓		
7	~~0~~										
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PME11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	27 56 48.03 N	160 29.93 W	29 MAY 98	1202	.	.						626	PME11

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	62						037	192	✓		
2	40							191			
3	30							190			
4	20							189			
5	10							188			
6	0							187	✓		
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PME9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	38 56 43.95 N	160 33.79 W	29 MAY 98	1245	.	.									69	PME9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	60							198	✓		
2	40							197			
3	30							196			
4	20							195			
5	10							194			
6	0							193	✓		
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PME7

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)				(m)	
39	56 39.72 N	160 27.5 W	29 MAY 98	1330	.	.								64	PME7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	59 ✓						039 101	204	✓		
2	40 ✓							203			
3	30 ✓							202			
4	20 ✓							201			
5	10 ✓							200			
6	0 ✓							199	✓		
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMG6

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	40 56 37.70 N	160 24.35 W	29 MAY 98	1357	.	.									58	PMG6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = 52 m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2		No Samples									
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	56 35.64 N	160 21.25 W	29 MAY 98	1424	.	.									53	PMC5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	46'						041 01	209	✓		
2	30'							207			
3	20'							207			
4	10							206			
5	0							205	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PME4

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	42 56 23.56 N	160 18.08 W	29 MAY 98	1452	.	.										PME4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = 41 m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PME3

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	43563 1.49 N	160 14.94 W	29 MAY 98	1518	.	.									34	PME3

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	29						043	212	✓		
2	10							211			
3	0							210	✓		
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PME1

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	44 56 27.38 N	160 08.65 W	29 MAY 98	1600	.	.									21	PME1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	18							215	✓		
2	10							214			
3	0							213	✓		
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA1

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	45 56.70 N	159 50.69 W	29 MAY 98	1732	.	.									21	PMA1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Pads
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	17										
2	17										
3	17										
4	17										
5	17										
6	5										
7	5										
8	5										
9	5										
10	5										
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	46 56 35.70 N	159 50.70 W	29 MAY 98	1804	.	.									21	PMA1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	In Situ Pods
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	R										
2	10										
3	5										
4	0										
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	47 56 35.72 N	159 50.60 W	29 MAY 98	1950	.	.										PMA1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	198							218	✓		
2	10							217	✓		
3	0							216	✓	✓	
4	0						047 04			✓	
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA3

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	•	•	•	(m)	
48	56 39.81 N	159 56.85 W	29 MAY 98	2032	.	.									46	PMA3

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	43							223			
2	30							222			
3	20							221	✓		
4	10							220			
5	0							219	✓		
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PM14

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	49 56 41.87 N	160 00.03 W	29 MAY 98	2057	.	.									50	PM14

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	45						049 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
5	56 43.97 N	160 03.22 W	29 MAY 98	2 20	.	.									54	PMA5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SE911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	50							229	✓		
2	40							228			
3	30							227			
4	20							226			
5	10							225			
6	0							224	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
5	56 46.01 N	160 06.36 W	29 MAY 98	2144	.	.									52	PMA6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck prod
PRESS SN	p5040	START DOWN				water
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	12 ✓										
2	12 ✓										
3	12 ✓										
4	12 ✓										
5	12 ✓										
6	5 ✓										
7	5 ✓										
8	5 ✓										
9	5 ✓										
10	5 ✓										
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA7

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
<52	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
52	56 46.04 N	160 09.52 W	24 MAY 98	2024	.	.								59	PMA7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	54							235			
2	40.5							234			
3	30.3							233			
4	20.3							232	✓		
5	10.3							231			
6	1							230	✓		
7											
8											
9											
10											
11											
12											

SKL

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	53 56 52.19 N	160 158.3 W	29 MAY 98	2308	.	.						168	PMA9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	65.6						033	241			
2	40.8							240			
3	30.5							239			
4	21.0							238	✓		
5	10.7							237			
6	2.1							236	✓		
7											
8											
9											
10											
11											
12											

8

20

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMA11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
54	56 56.35 N	160 22.24 W	29 MAY 98	23 54	.	.						64	PMA11

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	64.9							247	✓		
2	40.6							246			
3	30.6							245			
4	19.7							244	✓		
5	10.1							243			
6	2.4							242	✓	✓	
7	2.1										
8											
9											
10											
11											
12											

HPLC O 20

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	55 56.52.36 N	160 31.1 W	30 MAY 98	2307	.	.						67	PMC11

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS: Deck prood

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TREF DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	160 ✓										
2	160 ✓										
3	160 ✓										
4	160 ✓										
5	160 ✓										
6	5 ✓										
7	5 ✓										
8	5 ✓										
9	5 ✓										
10	5										
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	56 56 52.70 N	160 30.58 W	30 MAY 98	2348	.	.									67	PMC11

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	in situ prod. to 20m
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	21										
2	21										
3	15										
4	10										
5	5										
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	57 56 37.82 N	160 09.27 W	31 MAY 98	0815	.	.									47	PMC4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Pads
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	25										
2	25										
3	25										
4	25										
5	25										
6	0										
7	0										
8	0										
9	0										
10	0										
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		PMC4

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	58 56 37.67 N	160 09.02 W	31 MAY 98	2200	.	.									47	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	~~[illegible]~~ Deck Prod
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

trans after cast

4.513 Volts
0.00 Volts

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	23										
2	23										
3	23										
4	23										
5	23										
6	S										
7	S										
8	S										
9	S										
10	S										
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A0

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	59 58 24.68 N	158 23.92 W	02 JUN 98	03 24	.	.										D1A0

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	20										✓
2	~~25~~ 20 ✓							252	✓		
3	~~10~~ 15 ✓							251			
4	~~8~~ 10 ✓							250	✓		
5	~~0~~ 5							249			
6	0							248	✓	✓	✓
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	60 58 13.02 N	158 33.93 W	02 JUN 98	0506	.	.									29	D1A1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50455	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 ¢ 1123	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other DUC
1	25						060 01	257	✓		✓
2	20							256	✓		
3	15							255			✓
4	10							254			
5	0							253	✓		✓
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A2

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	61581 0.60 N	158 36.25 W	02 JUN 98	0539	.	.										D1A2

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5405T	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 ¢ 1123	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other (plankton)
1	27							261	✓		✓
2	20							260			
3	10							259			
4	0							258	✓		✓
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A3

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
62	58 08.14 N	158 38.60 W	02 JUN 98	0802	.	.									32	D1A3

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	30						062 01	266	✓		Dex + plankton
2	20							265			
3	10							264			
4	0							263	✓		
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	63 58 05.75 N	158 40.94 W	02 JUN 98	0629	.	.								33	D1A4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5405T	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 4 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC + Other
1	30 ✓							269	✓		
2	20 ✓							268			
3	10							267			
4	0							266	✓		
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A5

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
64	58.329 N	154 3.19 W	02 JUN 98	0651	.	.									36	D1A5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DX + Other
1	33						064	273	✓		
2	20 ✓							272			✓
3	10 ✓							271			
4	0							270	✓		✓
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A6

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
65	58 0.95 N	158 45.49 W	02 JUN 98	07 18	.	.								35	D1A6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	374						065 01	277	✓		DIC blank
2	20							276			
3	10							275	✓		
4	0							274	✓		
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A7

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
66	5758.58N	15847.84W	02 UN 98	0739	.	.									35	D1A7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5C4C5T p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Doc f Other
1	31							281	✓		
2	20							280			
3	10							279			
4	0							278	✓	✓	
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIAP

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	67 57 56.22 N	158 50.11 W	02 JUN 98	0804	.	.									34	DIAP

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	31 ✓						067 01	✓	✓	✓	
2	31 ✓							285			
3	20 ✓							284			
4	10 ✓							283			
5	0 ✓							282			
6	0 ✓								✓	✓	
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	68 57 53.78 N	158 52.4 W	02 JUN 98	0829	.	.									39	D1A8

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC-+ Other
1	35							289	✓		
2	20							288			
3	10							287			
4	0							286	✓		
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A10

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	69 57 51.40 N	158 54.74 W	02 JUN 98	0856	.	.								39	D1A10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	52405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	36						069 01	293	✓		
2	20							292			
3	10							291			
4	0							290	✓		
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A11

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
70	57 49.01 N	158 56.88 W	02 JUN 98	09 19	.	.									40	D1A11

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50455	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] CHAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	37							297	✓		
2	20							296			
3	10							295	✓		
4	0							294	✓		
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
7	1574 6.69 N	1585 9.29 W	02 JUN 98	0947	.	.									4	D1A12

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	38						071 01	302	✓		
2	30							301			
3	20							300	✓		
4	10							299			
5	0							298	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A13

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	72 57 44.27 N	159 01.43 W	08 JUN 98	1012	-	-									44	D1A13

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air biased valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other DOC +
1	40							305	✓		
2	50							304			
3	0							303	✓		
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A14

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	73 57 41.86 N	159 03.76 W	02 JUN 98	1038	.	.									44	D1A14

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	43						073	308	✓		
2	30							307			
3	0							306	✓		
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		

CON SC CAST #	LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
74		.	N		.	W	J	U	N	9	8	.	.										

Trans
2 June 2011 GMT
4574 10.000

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		Flock

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	75 57 49.22N	159 11.63W	02 JUN 98	2207	.	.								42	Flock

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Pond
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	16										
2	16										
3	16										
4	16										
5	16										
6	5										
7	5										
8	5										
9	5										
10	5										
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C15

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
76	57 36.38 N	158 53.15 W	03 JUN 98	0823	.	.								43	D1C15

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	40						076 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C14

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	77 57 38.80 N	158 50.93 W	03 JUN 98	0850	.	.									44	D1C14

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2		No Samples									
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C13

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	78 57 41.13 N	158 48.67 W	03 JUN 98	0915	.	.									42	D1C13

42

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	38						078 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	D1C12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	79 57.43.5 N	158 46.35 W	03 JUN 98	0942	.	.								41	D1C12

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5040S	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 c1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleared air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3		No Samples									
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	05745.99N	15844.06W	02 JUN 98	1008	.	.								42	D1C11

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 4 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	37						080 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC10

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
	8 57 48.41 N	158 41.75 W	03 JUL 98	1042	.	.								40	DIC10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C9

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	82 57 50.80 N	158 39.49 W	03 ~~MAY~~ JUN 98	11 05	.	.									38	D1C9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C8

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR'N. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	8357 53.23 N	1583 7.21 W	03	MAY	98	11	29	.	.									35	D1C8

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	32						083 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC 7

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	84 57 55.60 N	15 34.90 W	03 MAY 98	1152	.	.						31	DIC7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2		No Samples									
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	85757.98N	158 32.55W	03 ~~MAY~~ JUN 98	1215	.	.									32	D1C6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	30						08 31				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	8658 00.39 N	152 30.20 W	03 ~~MAY~~ JUN 98	1238	.	.									35	D1C5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	87 52 02.72 N	152 27.98 W	03 JUN 98	12 59	.	.									33	D1C4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5C4C5 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	8258 05.24 N	158 25.69 W	JUN 98	1320	.	.									37	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 1123	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	89 58 07.63 N	158 23.36 W	03 JUN 98	1341	.	.									28	DIC2

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5045	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	D1C1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	905810.12N	1582096W	03 JUN 98	1402	.	.									25	D1C1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Proof
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] FAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	24 ✓										
2	24 ✓										
3	24 ✓										
4	24										
5	24										
6	5 ✓										
7	5 ✓										
8	5										
9	5										
10	5										
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC 6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
91	57 58.04 N	157 32.43 W	04 JUN 98	0111	.	.									32	DIC6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	29						091	310			
2	5							309			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) * TYPE * WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
92	5800.5 N	15830.13 W	04 JUN 98	0134	.	.						32	DIC5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	30							312			
2	5							311			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1C4

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
93	58 02.82 N	158 27.94 W	04 JUN 98	0157	.	.									32	D1C4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	30							314			
2	5							313			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC3

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
94	5805.26 N	15825.61 W	04 JUN 98	0222	.	.									32	DIC4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	29							316			
2	5							315			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) * TYPE * WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
95	58 17.66 N	158 22.5 W	4 JUN 98	0242	.	.						28	DIC2

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	23							318			
2	5							312			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIC 1

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	96 58 10.06 N	158 21.06 W	4 JUN 98	0303	.	.									25	DIC 1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1							096 21	320			
2								319			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DICO

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) * TYPE * WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	97 58 12.43 N	158 18.67 W	04 JUN 98	0323	.	.				1		24	DICO

CTD	TIMES JD/TIME	DATA LOCATION	REMARKS
TYPE & SN SB911+	DATA ON	Tape/Diskette ID / File Name/Header	
PRESS SN 50405 p5040	START DOWN		
TEMP SN t1390	AT DEPTH		
COND SN c501	AT SURFACE		MAX. DEPTH = m
TEMP SN ¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve		

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	22							✓		✓	
2	22							322			
3	5							321			
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DICX1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	W/IND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	9858 4.29 N	158 16.42 W	04 JUN 98	0345	.	.								220	DICX1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1								324			
2								323			plankton (Dean)
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1CX2

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
99	58 17.24 N	158 14.02 W	04 JUN 98	0404	.	.									22	D1CX2

CTD	TIMES JD/TIME	DATA LOCATION	REMARKS
TYPE & SN SB911+	DATA ON	Tape/Diskette ID / File Name/Header	
PRESS SN 50405 p5040	START DOWN		
TEMP SN t1390	AT DEPTH		
COND SN c501 ¢ 1123	AT SURFACE		MAX. DEPTH = m
TEMP SN t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve		

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	19										
2	9										
3	3										
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DICX3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	00 58 19.63 N	158 11.78 W	04 JUN 98	0424	.	.									18	DICX3

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	18							329			
2	<							328			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		DIR

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
10	5833.13N	15825.66W	04 JUN 98	0555	.	.									15	DIR

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Dean's
PRESS SN	50405 p5040	START DOWN				Review
TEMP SN	t1390	AT DEPTH				Water
COND SN	c501 ¢1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A12

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	02 57 46.63 N	158 59.33 W	04 JUN 98	18 19	.	.									44	D1A12

7 didn't fire

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	N/S + Rec. prob.
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	& 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	17										
2	17										
3	17										
4	17										
5	17										
6	17										
7	S										
8	S										
9	S										
10	S										
11	S										
12	S										

No trap

7 1st

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		D1A12

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	03 57 46.72 N	158 9.45 W	04 JUN 98	1847	.	.									44	D1A12

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

7 didn't Fire

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	41										
2	30							337	✓		
3	20							336	✓		
4	19							335			
5	18										
6	10							334			
7	5							333	✓	✓	
8	5										N15
9	5										
10	5										
11											
12											

No trip

/ /

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	CNCX17

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	04 58 37.44 N	162 08.64 W	05 JUN 98	1436	.	.									34	CNCX17

CTD		TIME	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	1st Cast Cape
PRESS SN	5040 p5040	START DOWN				Newcastle
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

Deck Pond

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	31						104 21	340	✓		✓
2	20 ✓										
3	20 ✓										
4	20 ✓										
5	20 ✓							340			
6	10 ✓							339			
7	0 ✓							338	✓	✓	
8	0 ✓										
9	0 ✓										
10	0 ✓										
11	0										
12											

NO Fire

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNCx16

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	05 58.32.75 N	162 12.37 W	JUN 98	1529	.	.						42	16

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5095	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 4123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	39							346	✓		
2	30							345			
3	20							344			
4	10										
5	10							343			
6	0							342	✓		
7											
8											
9											
10											
11											
12											

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	CNOC X15

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	06 58.28 N	162 17.35 W	05 JUN 98	1616	.	.									46	15

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	DOC Other
10 1	43 ✓						106	351	✓		
11 2	30							350			
12 3	20 ✓							349			
1 4	10 ✓							348			
2 5	0							347	✓		
3 6											
4 7											
5 8											
6 9											
7 10											
11											
12											

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	CNCx14

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	07 58.23 N	162 22.36 W	05 JUN 98	1705	.	.									36	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION: Tape/Diskette ID ____ File Name/Header ____

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
3 1	31							355	✓		
4 2	20							354			
5 3	10							353			
6 4	0							352	✓		
7 5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNCX13

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
108	58 18.74 N	162 27.34 W	05 JUN 98	1748	.	.									30	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	& 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
7 1	28							—	✓		
8 2	28							358			
9 3	10							357			
10 4	0							356	✓		
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CWCX 12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	0958 14.08 N	1623 2.39 W	5 JUN 98	1836	.	.									35	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
11 1	31							362	✓		
12 2	20							361			
1 3	10							360			
2 4	0							359	✓		
3 5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNCX11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
110	58 09.43 N	162 37.42 W	05 JUN 98	1915	.	.									35	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

Cabrel

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL	HPLC	Other
1	33						110 121	366			
2	20							365			
3	10							364			
4	0							363			
5											
6											
7											
8											
9											
10											
11											
12											

3 4 5 6 7

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		C4 C X 10

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
111	5804.41 N	16242.90 W	05 JUN 98	2018	.	.									37	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	& 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	31								✓		
2	31							370			
3	20							369			
4	10							368			
5	0							367	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNCX8

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	12580 0.19 N	162 47.42 W	05 JUN 9	2101	.	.									39	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CH...	HPLC	Doc Other
12 1	34						112 01	374	✓	✓	
1 2	20	✓						373			
2 3	20	✓						372			
3 4	20	✓						371			
4 5	20										
5 6	10										
6 7	0								✓	✓	
7 8	0										
8 9	0										
9 10	0										
10 11	0										
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CN CX8

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	13 58.49 N	162 48.52 W	05 JUN 98	2126	.	.									39	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50465	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

In Situ Cast to 20m only

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	20										In Situ
2	15										
3	10										
4	5										
5	2										
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNCX6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	14 57.55 N	126 52.40 W	05 JUN 98	2358	.	.									43	CNCX6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL	HPLC	Other
3 1	40							371	✓		
4 2	30							376			
5 3	20							377			
6 4	10							376	✓		
7 5	0							375	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNCX4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	11557.50.91 N	16257.36W	06 JUN 98	0045	.	.									41	CNCX4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	39						115 01	383	✓		
2	20							382			
3	10							381			
4	0							380	✓		
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC x 2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
1	16 57 46.31 N	163 02.25 W	05 JUN 98	01 37	.	.									45	CNC x 2

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	41							388	✓		
2	30							387			
3	20							386			
4	10							385	✓		
5	0							384	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNA11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
1	17 57 21.38 N	163 42.90 W	06 JUN 98	0810	.	.									57	CNA11

header says 55
57

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR	CHL.	HPLC	Other
8 1	53							394	✓		
6 2	40							393			
7 3	30							392			
8 4	20							391	✓		
9 5	10							390			
10 6	0							389	✓	✓	
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNA9

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
118	57 26.04 N	163 38.00 W	06 JUN 98	0900	.	.									49	CNA9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
12 1	40							399	✓		
12 2	30							398	✓		
1 3	20							397			
2 4	10							396			
3 5	0							395	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNA 7

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	19 57 30.78 N	163 32.93 W	06 JUN 98	0951	.	.									49	CNA7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
4 1	45							404	✓		
5 2	30							403			
6 3	20							402			
7 4	10							401			
8 5	0							400	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNA6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
1	20573309 N	16230.48 W	06 JUN 98	1021	.	.	.								47	CNA6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	43						120 01	409	✓		
2	30							408			
3	20							407			
4	10							406			
5	0							405	✓		
6											
7											
8											
9											
10											
11											
12											

9
10
11
12
1

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNA5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
121	57 35.44 N	163 27.91 W	06 JUN 98	1052	.	.								47	CNA5

46

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	43							414			
2	30							413			
3	20							412			
4	10							411			
5	0							416			
6											
7											
8											
9											
10											
11											
12											

Bag 5 6

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNA3

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	12257 40.1 N	163228 6W	06 JUN 98	1140	.	.									46	CNA3

46

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5C405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

	POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
			PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NJTR.	CHL.	HPLC	Other
17	1	42							419	✓		
18	2	30							418			
19	3	20							417			
10	4	10							416	✓		
11	5	0							415			
	6											
	7											
	8											
	9											
	10											
	11											
	12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	N 35 74 1.58 N	163 07.48 W	06 JUN 98	1247	.	.								44	CNC1

CTD		TIMES	JD/TIME:	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	42							424	✓	✓	
2	30							423			
3	20							422			
4	10							421			
5	0							420	✓		
6											
7											
8											
9											
10											
11											
12											

13
4
2
3
4

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	24 57.39 N	163 09.95 W	06 JUN 98	1338	.	.									45	CNC2

44

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	43							429	✓		
2	30							428			
3	20							427			
4	10							426			
5	0							425	✓		
6											
7											
8											
9											
10											
11											
12											

5 6 7 8 9

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
125	57 36.85N	163 12.40W	06 JUN 98	1413	.	.									47	CNC3

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
10 1	45							434	✓		
4 2	30							433			
12 3	20							432			
4 4	10							431	✓		
2 5	0							430	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC4

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)				(m)	
	1265734.51 N	16314.91 W	06 JUN 98	1455	.	.									47	CNC4

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	45 ✓							434	✓		
2	30 ✓							438			
3	20							437			
4	10							436			
7 5	0							435	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC5

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)			(m)	
127	57 32.19 N	163 17.37 W	06 JUN 98	1528	.	.							47	CNC5

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	47						127 91	444	✓		
2	30							443			
3	20							442			
4	10							441			
5	0							440	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	12857.29.88 N	163 19.91 W	06 JUN 98	1615	.	.								49	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	45							449	✓		
2	30							448			
3	20							447			
4	10							446			
5	0							445	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC 7

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	1295727.50N	1632242W	06 JUN 98	1646	.	.								50	CNC7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 (50455)	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 (& 1123)	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL	HPLC	Other
1	46							454	✓		
2	30							453			
3	20							452			
4	10							451	✓		
5	0							450	✓		
6											
7											
8											
9											
10											
11											
12											

134
123

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC8

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	130 57 25.18 N	163 24.97 W	06 JUN 99	1729	.	.								50	CNC8

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 (SC405T)	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 (& 1123)	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	40							459	✓		
2	30							458			
3	20							457			
4	10							456	✓		
5	0							455			
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	13 15.722.87 N	163 27.45 W	6 JUN 98	17 58	.	.								51	CNC9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] CHAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	49							464	✓		✓
2	30							463			
3	20							462			✓
4	10							461			
5	0							460	✓		✓
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC10

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
1	32 57.20.55 N	163 30.00 W	06 JUN 98	1829	.	.								53	CNC10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] CHAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	50							469	✓		
2	30							468			
3	20							467			
4	10							466			
5	0							465			
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	13357 18.17 N	16332.50 W	06 JUN 98	1910	.	.								52	

header says 55

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	52	✓						475	✓		
2	40	✓						474			
3	30	✓						473			
4	20							472			
5	10							471			
6	0							470	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC12

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
1	34 57 15.88 N	163 35.00 W	06 JUN 93	1942	.	.								60	CNC12

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	& 1123 t1391	[X] PAR [X] FLUOR [ ] CHAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	55							481			
2	40							480			
3	30							479			
4	20							478			
5	10							477			
6	0							476			
7	0										
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNE11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	1355715.0 N	16322.37 W	60 UN 98	2111	.	.								56	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	52							487	✓		
2	40							486			
3	30							485			
4	20							484			
5	10							483			
6	0							482	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNE9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	1365719.62N	16317.17W	06JUN98	2158	.	.										CNE9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	47						1365	492			
2	30							491	✓		
3	20							490			
4	10							489			
5	0							488	✓		
6											
7											
8											
9											
10											
11											
12											

47 = 44
30 = 27

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNEP

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	13757 21.97 N	16314.65 W	06 JUN 98	2231	.	.									49	CNEP

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50455 p5040	START DOWN	
TEMP SN	11390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	11391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	45							497			
2	30							496	✓		
3	20							495			
4	10							494			
5	0							493	✓		
6	~~X~~										
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNE7

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	38 57 24.30 N	163 12.13 W	06 JUN 98	2302	.	.								50	CNE7

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	46							502			
2	30							501	✓		
3	20							506			
4	10							499			
5	0							498	✓		
6											
7											
8											
9											
10											
11											
12											

4541
30

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNES

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	13957 29.00 N	163 07.08 W	06 JUN 98	2350	.	.									17	CNES

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	43							507	✓		
2	30							506			
3	20							505			
4	10							504			
5	0							503	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNE3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	1405733.65N	1630208W	07JUN98	0038	.	.								47	CNE3

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	44							512	✓		
2	30							511			
3	20							510			
4	10							509			
5	0							508	✓	✓	
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNEX8

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
1	41 57 56.96 N	166 36.97 W	07 JUN 98	1700	.	.									41	CNEX8

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	17										
2	17										
3	17										
4	17										
5	17										
6	S										
7	S										
8	S										
9	S										
10	S										
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	1 4 2 5 7 2 2.6 2 N	1 6 3 2 7.6 0 W	0 J U N 9 8	2 0 2 3	.	.						5 1	

08 Jun 23:42
Trans 4.564

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Pond (Header says in situ)
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	27										
2	27										
3	27										
4	27										
5	5										
6	5										
7	5										
8	5										
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC9

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MC YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
143	57.21 N	163 27.73 W	16 JUN 98	2048	.	.								51	CNC9

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	In Situ Prod
PRESS SN	50405 p5040	START DOWN				10 30 m
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	20										
2	15										
3	10										
4	5										
5	5 ✓										
6	5 ✓										
7	5 ✓										
8	5 ✓										
9											
10											
11											
12											

4 at 5 for Dean

Fluor (5) = 0.27 to 0.39

Seachist reads 2.4 - 2.6

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC14

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	14 57.06.62 N	163 45.05 W	11 JUN 98	0149	.	.									65	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	& 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	18										
2	18										
3	18										
4	18										
5	5										
6	5										
7	5										
8	5										
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC14

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	14557 06.76 N	163 45.29 W	11 JUN 98	02 09	.	.									65	

CTD	TIMES JD/TIME	DATA LOCATION	REMARKS
TYPE & SN SB911+	DATA ON	Tape/Diskette ID / File Name/Header	
PRESS SN 50455 p5040	START DOWN		
TEMP SN t1390	AT DEPTH		
COND SN c501 & 1123	AT SURFACE		MAX. DEPTH = m
TEMP SN t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve		

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	61							519			
2	50						1455 02	518			
3	40							517			
4	30							516	✓		
5	20							515			
6	20							514	✓	✓	
7	10							513			
8	0										
9	0								✓	✓	
10											
11											
12											

Note Fluorometer on SSR cast Cleaned File HX209 30.ASC

521 CWC9 Bean

0
20
30

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CWC13

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
	14657.27N	16340.02W	11 JUN 98	0305	.	.									63	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5C405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	59							527			
2	50							526			
3	40							525			
4	30							524	✓		
5	20							523			
6	10							522			
7	0							520	✓		
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	14 57.92 N	163 35.02 W	11 JUN 98	0354	.	.									60	CNC12

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	& 1123 t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	56							533			
2	40							532			
3	30							531			
4	20							530			
5	10							529			
6	0							528	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CWC11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	1485718.25 N	1632.43 W	11 JUN 98	0422	.	.									57	CWC11

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 5045	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391 t1123		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	53							539			
2	40							538			
3	30							537	✓		
4	20							536			
5	10							535			
6	0							534	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC10

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	1495720.57N	1633008W	11 JUN 98	0447	.	.									54	CNC10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	50						1491	545			
2	40							544			
3	30							543	✓		
4	20							542			
5	10							541			
6	0							540	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	15057 22.89 N	163 27.54 W	11 JUN 98	0512	.	.									51	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50465 p:040	START DOWN				
TEMP SN	t:390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	47							550			
2	30							549	✓		
3	20							548			
4	10							547			
5	0							546	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC8

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	15 57 25.22 N	163 24.96 W	11 JUN 98	05 37	.	.									51	CNC8

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50455 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	& 1123 t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	46							555			
2	30							554	✓		
3	20							553			
4	10							552			
5	0							551	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC7

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	15257 27.54 N	163 22.55 W	11 JUN 98	0601	.	.									49	CNC7

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p50:0	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	¢ 1123 t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	46							560			
2	30							559	✓		
3	20							556			
4	10							557			
5	0							556	✓		
6											
7											
8											
9											
10											
11											
12											

145 10 103

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		CNC6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	15 35.729.90 N	163 19.88 W	11 JUN 98	0627	.	.									48	CNC6

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391					

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	45							565			
2	30						✓	564	✓		
3	20							563			
4	10							562			
5	0							561	✓		
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	1 5 4 5 8 1 6.7 2 N	1 6 8 4 4.5 8 W	1 2 J U N 9 8	0 7 2 2	.	.									6 7	N I C 1 2

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS: bow of steat.

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	61						154 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

Trans
4,574 17°4.564(?)
11 June 22:30

See ADCP
Record just
before this
cast.
Fluor. suddenly
↑ started
59°15'
168 05
or 168 16
drops off
near NIC12
(just to
WNW of it)

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1E2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEASTATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	155584 6.16N	167577.64W	12 JUN 98	1817	.	.									N1E2

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 SC4C5	START DOWN	
TEMP SN	t1390.	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

disk read

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	20										
2	20										
3	20										
4	20										
5	0										
6	0										
7	0										
8	0										
9	0										NIS
10	0										NIS
11	6									✓	
12											

~~Changed setting from 3x to 1x on flowometer~~ Was already at lowest setting

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NLE2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	1165246.19 N	167557.52 W	12 JUN 98	1838	.	.									44	NLE2

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS: In Situ

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	20										
2	15										
3	10										
4	5										
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIA1

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SP D.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
157	58 54.98 N	168 16.64 W	13 JUN 98	1512	.	.								43	NIA1

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Start of run
PRESS SN	50455 p5040	START DOWN				~~on~~ seid
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

Deck Prod

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Deck prod Other
1	40							571	✓		
2	30							570			
3	20							569			
4	10							568	✓		
5	10							567			
6	10										
7	10									✓	
8	5							✓	✓	✓	
9	5										
10	5										
11	5										
12	5										

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1A3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	1 58 58 50.30 N	1 67 21.68 W	1 3 JUN 98	1 5 58	.	.									46	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	42						15801	576			
2	30							575			
3	20							574	✓		
4	10							573			
5	0							572	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1A5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	15958 45.62N	168 26.84W	13 JUN 98	1640	.	.									49	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50455 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	46							581			
2	30							580			
3	20							579	✓		
4	10							578			
5	0							577	✓		
6											
7											
8											
9											
10											
11											
12											

2 = 0
30 28

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1A6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
160	16 58 43.32 N	168 29.37 W	13 JUN 98	1705	.	.									51	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 50405	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	48							586	✓		
2	30							585			
3	20							584	✓		
4	10							583			
5	0							582	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		2147

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
161	15 7584 0.99 N	168 31.98 W	13 JUN 98	1732	.	.						52	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50455 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	50						161	592	✓		
2	40							591			
3	30							590			
4	20							589			
5	10							588	✓		
6	0							587	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1A9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
162	4583630N	16837.16W	13 JUN 98	1817	.	.						57	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50455 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 ¢ 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	54							598	✓		
2	40							597			
3	30							596	✓		
4	20							595	✓		
5	10							594	✓	✓	
6	0							593	✓	✓	
7											
8											
9											
10											
11											
12											

2 at bottom ?

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1A11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE DAY	JD= MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	16 58 31.62 N	168 42.35 W	13	JUN	98	19	01	.	.								61	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR.	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	58							605			
2	50							604			
3	40							603			
4	30							602	✓		
5	20							601	✓		
6	-10							600	✓	✓	
7	0							599	✓	✓	
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIAN

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
164	15 45 83 1.79 N	168 42.2 W	3 JUN 98	19 18	.	.										

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	& 1123 t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS: Deck Prod.

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	6										
2	10										
3	10										
4	10										
5	10										
6	5										
7	5										
8	5										
9	5										
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N13N

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
165	5758 30.06N	16837.15W	13 JUN 98	1950	.	.								61	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 50465	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	1658						165 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N139

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
166													
166	58 34.67 N	168 31.94 W	13 JUN 98	2030	.	.						57	N139

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

PCS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2			No Samples								
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	N1B7

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	1 6 7 5 8 3 9 . 3 7 N	1 6 8 2 6 . 7 9 W	1 3 J U N 9 8	2 1 1 2	.	.									52	

Trans 4502-4503

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1B6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
168	58 41.59 N	68 24.24 W	13 JUN 98	21 35	.	.									51	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION: Tape/Diskette ID ____ File Name/Header ____

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	47						168 81				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1B5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
169	75844.09N	16821.42W	13 JUN 98	2200	.	.						42	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION: Tape/Diskette ID ____ File Name/Header ____

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

PCS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1B3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
170	58 48.68 N	168 16.50 W	13 JUN 98	22 38	.	.						46	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1B2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
171	45 3.33 N	1681 1.3 W	13 JUN 98	2317	-	-						43	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1							171 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC 1

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
172	45 51.75 N	168 05.82 W	13 JUN 98	2343	.	.								93	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m Calvet
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER				[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	40							610	✓		
2	30							609			
3	20							608	✓	✓	
4	10							607			
5	0							606	✓	✓	
6											
7											
8											
9											
10											
11											
12											

Phytopl. Dean

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC2

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)				(m)	
173	5849.39 N	16808.33 W	14 JUN 98	0022	.	.								44	NIC2

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	41							615			
2	30							614			
3	20							613			
4	10							612			
5	0							611			
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
A74	15 58 47.03 N	168 10.85 W	14 JUN 98	0048	.	.								45	NIC3

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 50405	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

Calvert

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	DOC Other
1	40							620			
2	30							619			
3	20							618			
4	10							617			
5	0							616			
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
175	58 44.70 N	168 13.52 W	14 JUN 98	01 19	.	.						46	N1C4

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	5C4C5 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	44							625			
2	30							624			
3	20							623			
4	10							622			
5	0							621			
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC 5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	176 58 42.39 N	168 16.11 W	14 JUN 98	0144	.	.									47	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	44						176 01	630			
2	30							629	✓		
3	20							628			
4	10							627			
5	0							626	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
1	7758 40.06 N	168 18.69 W	14 JUN 98	0217	.	.										

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5C455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TEMP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	46							635	✓		
2	30							634			
3	20							633	✓	✓	
4	10							632			
5	0							631	✓	✓	
6											
7											
8											
9											
10											
11											
12											

Dean's phyto.

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C7

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	178 58 37.72 N	168 21.28 W	14 JUN 98	0243	.	.									51	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5C405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] CHAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	DOC Other
1	49							641			
2	40							640			
3	30							639	✓		
4	20							638			
5	10							637			
6	0							636	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C8

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
179	58 35.40 N	168 23.88 W	14 JUN 98	03 17	.	.									54	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5C405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 & 1123	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	51							647			
2	40						179 02	646			
3	30							645			
4	20							644			
5	10							643			
6	0							642			
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	18 58 33.07 N	168 26.50 W	14 JUN 98	0344	.	.									57	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 (SC455)	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 (& 1123)	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	DOC Other
1	53							653	✓		
2	40							652			
3	30							651			
4	20							650	✓		
5	10							649			
6	0							648	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C10

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
181	58 30.74 N	168 29.03 W	14 JUN 98	04 18	.	.									60	N1C10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 (5040S)	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 (t1123)	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	57							659	✓		
2	40							658			
3	30							657			
4	20							656	✓		
5	10							655			
6	0							654	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NC 11 → In table as NC11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
182	58 8.40 N	168 31.61 W	4 JUN 98	0446	.	.						62	NC11

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
CONDSN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	57						1122 01	666	✓		
2	50							665			
3	40							664			
4	30							663			
5	20							662	✓		
6	10							661	✓		
7	0							660	✓		
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
183	1 57 58 26.09 N	168 34.20 W	14 JUN 98	0 5 22	.	.						62	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50455 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 ¢ 1133	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	58							673	✓		
2	50							672			
3	40							671			
4	30							670			
5	20							669	✓	✓	
6	10							668			
7	0							667	✓	✓	
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC 13

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)		(m)	
184	5821.40N	16839.35W	14 JUN 98	0618	.	.						65	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 5045	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	61						184 91	680			
2	50							679			
3	40							678	✓		
4	30							677	✓		
5	20							676	✓		
6	10							675	✓		
7	0							674	✓		
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1011

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
185	58 26 81 N	168 26.26 W/E	14 JUN 98	0739	.	.						61	N1011

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NICO 9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	86 58 31.53 N	168 21.03 W	14 JUN 98	08 19	.	.										

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		X1D07

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	18 45 836 03 N	168 15.95 W	19 JUN 98	0856	.	.									53	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1						187-01					
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1006

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
188	58 38.38 N	168 13.35 W	14 JUN 98	09 18	.	.							

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		H1005

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	89 58 40.75 N	168 0 35 W	14 JUN 98	0942	.	.									

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	X1003

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
190	58 75.38 N	168 05.02 W	14 JUN 98	1521	.	.						49	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] CHLAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	45					190-01					
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N10 02

CON SC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	19	58	49.70	N 168	03.07	W	17	JUN	98	10	45	.	.									-15	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NE 01

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
192	58 49.51 N	16 7 55.18 W	17 JUN 98	2019	.	.									43	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] CHAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	41							685			
2	30.5							684			
3	19.8							683	✓		
4	10.5							682			
5	2.3							681	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1203

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	9358 48 81 N	16800 16 W	18 JUN 98	1200	.	.						46	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & c123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL	HPLC	Other
1	44.7							690	✓		
2	30.1							689			
3	20.1							688	✓		
4	10.3							687			
5	2.2							686	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		H1T05

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	19 45 89.14 N	168 532 W	14 JUN 98	1249	.	.									49	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	46.9					174-61		695	✓		
2	29.9							694			
3	20.1							693	✓		
4	10.3							692			
5	2.2							691	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209.		N12 OC

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	19 55 36.91 N	168 07.77 W	14 JUN 98	1308	.	.									50	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 50405	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 ¢ 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	48.9							700			
2	30.5							699			
3	20.1							698 ✓			
4	10.0							697			
5	2.5							696 ✓			
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		H1507

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
196	58 34.52 N	168 10.43 W	14 JUN 98	1328	.	.									51	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL	NUTR.	CHL.	HPLC	Other
1	50.6				196	01		706	✓		
2	40							705			
3	30.1							704			
4	20.1							703			
5	10.4							702			
6	2.2							701	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1609

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	19758 29.77 N	168 15.71 W	14 JUN 98	1408	.	.									56	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	54							712			
2	40							711			
3	30							710			
4	20							709	✓		
5	10							708			
6	0							707	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1E11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
198	5825.14 N	168 20.28 W	14 11 N 98	1449	.	.									60	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5545T p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	57						1901	718			
2	40							717			
3	30							716			
4	20							715			
5	10							714			
6	0							713			
7											
8											
9											
10											
11											
12											

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	N1E11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1	9958 25.18 N	168 20.82 W	JUN 98	1655	.	.									60	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Pwd
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2			No Samples		No Flow.						
3											
4			Steve didnt like the water here..								
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1E12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
2	0 5822.84N	1 6823.38W	4 JUN 98	1723	.	.						61	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	SC455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	12										
2	12										
3	12										
4	12										
5	5										
6	5										
7	5										
8	5										
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1612

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)			(m)	
201	. N	. W	JUN 98		.	.								

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	In Situ
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	11										
2	6										
3	3.5										
4	5										
5											
6											
7											
8											
9											
10											
11											
12											

11
6

20 22
10 12

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1Ex15

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
2	02 59 35.27 N	167 03.25 W	15 JUN 98	1526	.	.									27	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1.23 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	10										
2	10										
3	10										
4	10										
5											
6											
7											
8											
9											
10											
11											
12											

27 25
17 15

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1E x 15

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	20359.35.27 N	167 03.20 W	15 JUN 98	1532	.	.									27	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	¢ 1:23 t1391		

DATA LOCATION: Tape/Diskette 5 — File Name/Header

REMARKS: N15 Dean

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	B5										
2	10										
3	5 ✓										
4	5 ✓										
5	5 ✓										
6	5										
7	5										
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N16X19

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	2045930.5 N	16708.37 W	15 JUN 98	1621	.	.									27	14

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	24						204 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1E x12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	20 55 92 5.85 N	167 13.52 W	15 JUN 98	1704	.	.									28 13	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIEX12

header says 30

header says 0

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
206	59 2 1.12 N	167 18.75 W	15 JUN 98	1745	.	.								30	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	S3911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1							206 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NEXIP

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	2075916.53N	16723.87W	15 JUN 98	1828	.	.									34	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

No Samples

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NI EX 10

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
208	59 11.86N	167 29.02W	15 JUN 98	19 11	.	.								38	10

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	c 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	35						208 01				
2	22										
3	22										
4	22										
5	22										
6	5										
7	5										
8	5										
9	5										
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIEX 8

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	*	(m)	
209	5907.18N	16734.16W	15 JUN 98	1959	.	.								40	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 t.123	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N16x6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	21 05 9 0 2.5 3 N	167 39.32 W	15 JUN 98	2043	.	.								40	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2			No	Samples							
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1E4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
2	1158 57.9 N	167 44.48 W	5 JUN 98	2127	.	.									40	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	38						311 61				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1Ex2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	2125853.20N	16749.62W	15 JUN 98	2211	.	.									42	

transmiss.
4.553

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	5-2455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIEI not ex

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	21 35 58.57 N	167 54.86 W	15 JUN 98	2253	.	.									42	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	& 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NCX15

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	2145937.70N	167134.40W	16 JUN 98	2111	.	.										

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Pod
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	20 ✓										
2	20 ✓										
3	20										
4	20										
5	20										
6	15										
7	10										
8	5										
9	5										
10	5										
11	5										
12	5										

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1CX15

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	21 55 939.52 N	167 13.26 W	16 JUN 98	2217	.	.								30	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	b								✓	✓	
2	b							725			
3	20							724			
4	10							723	✓		
5	0							722			
6	0								✓	✓	
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1CX14

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
2	16 59 33.77 N	167 19.04 W	16 JUN 98	2328	.	.									30	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50495	START DOWN				
TEMP SN	t1390	AT DEPTH				
CONC SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	27							728	✓		
2	10							727			
3	5							726	✓		
4											
5											
6											
7											
8											
9											
10											
11											
12											

202 ~~NOT 21~~
213

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NICX13

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	21759.29N	16724.21W	17JUN98	0010	.	.									30	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 (50455)	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 (& 1123)	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	26						017 01	731	✓		
2	10							730			
3	0							729	✓		
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NICX12

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
218	59 24.44 N	167 29.29 W	17 JUN 98	0057	.	.									31	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	28							734	✓		
2	10							733			
3	0							732	✓		
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	NCX11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	19 59.74 N	167 34.62 W	17 JUN 98	0140	.	.								36	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50455	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air-bled valve

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	32						219 01	738	✓		
2	20							737			
3	10							736			
4	0							735	✓		
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NICXID

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPED (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
22	59 15.04 N	167 39.86 W	7 JUN 98	0227	.	.									38	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 (5040)	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 (& 1123)	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	35							741			
2	20							740			
3	10							739			
4	0							738	✓		
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NICX2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
22	59 10.38 N	167 45.04 W	17 JUN 98	0310	.	.									40	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 (5C455)	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 (c1123)	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	36							745		✓	
2	36							744			
3	20							743		✓	
4	10							742		✓	
5	0										
6	0									✓	
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NICX6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
222	59 05.70 N	167 50.24 W	7 JUN 98	0359	.	.									40	

CTD		TIMES	D/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50455	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 ¢ 1123	[X] PAR	[ ] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	37						222 21	750	✓		
2	30							749			
3	20							748			
4	10							747			
5	0							746	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1CX4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
22	35901.05N	167 55.42W	17 JUN 98	0443	.	.									40	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				Calvet
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	37							755	✓		
2	30							754			
3	20							753			
4	10							752			
5	0							751	✓		
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		21C x2

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	*	(m)	
224	58 56.40 N	168 00.62 W	17 JUN 98	0537	.	.									40	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50455	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 ¢ 1123	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	36							760			
2	30							759			
3	20							758			
4	10							757			
5	0							756			
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE / VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) / TYPE / WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
225	6849.37 N	16808.39 W	7 JUN 98	0646	.	.						44	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1							225				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C5

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)		(m)	
226	45842.22 N	16816.32 W	17 JUN 98	0753	.	.						48	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2		No Samples									
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C8

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
227	15 45 8 35.49 N	168 23.74 W	17 JUN 98	0901	.	.									65	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50405 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	c1123 t1391		

DATA LOCATION

Tape/Diskette ID: _____ File Name/Header: _____

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
228	15 58 2 8.41 N	168 31.58 W	7 JUN 98	1011	.	.									62	

In chlorophyll

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	58						228 01				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NIC13

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
229	15 7 58 21.32 N	168 39.44 W	17 JUN 98	11 16	.	.									65	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 5049	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391 t1123		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C14

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
230	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	•	•	•	(m)	
1	5758 16.80N	168 44.40W	7 JUN 98	1201	.	.									67	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	50465 p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	4 1123 t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	64							766			
2	40							765			
3	30							764			
4	20							763			
5	10							762			
6	0							761			
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N1C15

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
231	15 76 8 12.09 N	168 49.65 W	17 JUN 98	1250	.	.									69	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 5C4C5	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	#7							773			
2	60							772			
3	50							771			
4	40							770			
5	30							769			
6	20							768	✓		
7	10							767	✓		
8	0								✓		
9											
10											
11											
12											

all 1

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NP1

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID
232	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)		(m)	
15	58.00.87N	168 02.18W	7 JUN 98	1424	.	.						70	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 50455	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391 & 1123		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

	POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
3	1	65							788			
4	2	50							774			
5	3	40							778			
6	4	30							777			
7	5	20							776			
	6	20							724			
	7	10							724			
	8	0							7			
	9											
	10											
	11											
	12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NP2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	23 57.49.59 N	169 14.73 W	17 JUN 98	1555	.	.									64	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

	POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
4	1	62							787			
12	2	50							786			
1	3	40							785			
2	4	30							784			
3	5	20							783			
4	6	10							782			
5	7	0							781		✓	
	8											
	9											
	10											
	11											
	12											

and HPLC?

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NP3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	2345838.44 N	16927.12 W	17 JUN 98	1723	.	.								70	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	68							794			
2	50							793			
3	50							792			
4	40							791	✓		
5	30							790			
6	18							789	✓	✓	
7	10							788			
8	0								✓	✓	
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		NP4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
235	57 27.26 N	169 39.54 W	17 JUN 98	1856	.	.								70	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other (plankton)
1	63							801			
2	50							800			
3	40							799	✓		
4	30							798			
5	20							797	(✓)		
6	10							796			
7	10							795	✓		
8	0								✓		
9											
10											
11											
12											

2 3 4 5 6 7 43

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		N5

CON SC CAST #.	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	23 65 71 6.13 N	169 51.88 W	17 JUN 98	2034	.	.									49	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	& 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	46							806			
2	30							805			
3	20							804			
4	10							803			
5	0							802			
6											
7											
8											
9											
10											
11											
12											

10 11 12 1 2 3 4

0 2 27.1 18 20

236 215

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBCU

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	23 75 30.22 N	164 11.30 W	19 JUN 98	1635	.	.									96	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	90							814	7		
2	75							813			
3	50							812			
4	40							811	✓		
5	30							810			
6	20							809	✓		
7	10							808			
8	0							807	✓	✓	N15
9	0									✓	
10	0									✓	
11	0									✓	
12											

60

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC10

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
238	55 30.37 N	164 11.94 W	19 JUN 98	1655	.	.								96	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	Deck Prod
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	¢ 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL	HPLC	Other
1	42										
2	42										
3	42										
4	42										
5	11										
6	11										
7	11										
8	11										
9											
10											
11											
12											

40 42

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC 10

CON SC CAST #	LATITUDE DEG. MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	23955.27.75 N	164 09.46 W	19 JUN 98	1739	.	.								916	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	c 1123 t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1							239				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC9

CONSC CAST #	LATITUDE DEG. MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	24 55 25.35 N	164 7.45 W	19 JUN 98	1219	.	.								95	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	92							822			
2	75							821			
3	50							820			
4	40							819	✓		
5	30							818			
6	20							817	✓		
7	10							816			
8	0							815	✓		
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		53C8

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	24 15.22.92 N	164 05.50 W	19 JUN 96	1857	.	.									92	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 ¢ 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	88						241 831	830			
2	75							829			
3	50							828			
4	40							827	✓		
5	30							826			
6	20							825	✓		
7	10							824			
8	0							823	✓		
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC7

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SP D. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	24 55 20.46 N	164 03.42 W	9 JUN 98	1932	.	.								84	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50405 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	41123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	80						242 01	837			
2	50							836			
3	40							835	✓		
4	30							834			
5	20							833	✓		
6	10							832			
7	0							831	✓		
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		3BC6

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
243	55 18.09 N	164 01.44 W	19 JUN 98	2009	.	.									76	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 1123	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	71							844			
2	50							843			
3	40							842	✓		
4	30							841			
5	20							840	✓		
6	10							839			
7	0							838	✓		
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		3BC5

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	24 45 51.566 N	168 59.41 W	19 JUN 98	2042	.	.								59	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SBE911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50405	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 t123	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	57							850			
2	40							849	✓		
3	30							848			
4	20							847	✓		
5	10							846			
6	0							845	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		5BC4

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	24 55 513.07 N	164 57.25 W	19 JUN 98	2116	.	.									52	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SBS11+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	01123 t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1	51						~~856~~	856			
2	40							855	✓		
3	30							854			
4	20							853	✓		
5	10							852			
6	0							851	✓		
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
246	55 18.76 N	163 55.35 W	19 JUN 98	2150	.	.									43	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	S3911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 50455	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	40							861			
2	30							860			
3	20							859			
4	10							858			
5	0							857			
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC 2

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	24 7 55 68.26 N	163 53.22 W	19 JUN 98	2223	.	.									31	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SR911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50495 25040	START DOWN				
TEMP SN	11590	AT DEPTH				
COND SN	2601	AT SURFACE				MAX. DEPTH = m
TEMP SN	4 1123 11591	[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve				

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	29						247 01	865			
2	20							864			
3	10							863			
4	0							862			
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	24 55 05.87 N	163 51.32 W	19 JUL 98	22 55	.	.								1	2½	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	50455 p5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	24							868			
2	10							867			
3	10										
4	10										
5	10										
6	10										
7	0							866			
8	0										
9	0										
10	0										
11											
12											

b
10
0
0
0
0
0

PG __ OF __

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	SBC1

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	24 55 05.80 N	163 51.54 W	20 JUN 98	1536	.	.									26	

Calvert

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 (5040)	START DOWN	
TEMP SN	t1390	AT DEPTH	
CONDUCT SN	c501 (c1123)	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES: PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL.	NUTR.	CHL.	HPLC	Other
1											
2			No samples								
3											
4											
5											
6											
7											
8											
9											
10											
11											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		3BC3

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	25 55 10.62 N	163 55.57 W	20 JUN 98	1648	.	.									41	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040 (5040?)	START DOWN	
TEMP SN	t1390	AT DEPTH	
CONC SN	c501 & 1123	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

Calvert

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3			No samples								
4											
5											
6											
7											
8											
9											
10											
11											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		3B04

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	25 55 13.08 N	163 57.54 W	20 JUN 98	17 19	.	.									51	

CTD		TIMES	JD/TIME
TYPE & SN	SB911+	DATA ON	
PRESS SN	p5040	START DOWN	
TEMP SN	t1390	AT DEPTH	
COND SN	c501	AT SURFACE	
TEMP SN	t1391		

DATA LOCATION

Tape/Diskette ID	File Name/Header

REMARKS

Deck Proof

MAX. DEPTH = m

[X] PAR [X] FLUOR [ ] ChlAM [X] TRANSMISSOMETER [ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1	35										
2	35										
3	35										
4	35										
5	7										
6	7										
7	7										
8	7										
9											
10											
11											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		MBES

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	25 25.55 N	163 59.55 W	20 JUN 98	1757	.	.									56	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

Calvet

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC7

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR. (deg)	WIND SP. D. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	25	15	20.50N	164	03.42W	20 JUN 98	1748								83	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5040T	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391 ¢ 1123	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											

PG ___ OF ___

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	3BC9

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	25 45.525.39N	164 07.41W	20 ~~SEP 97~~ JUN 98	1938	.	.								94	

CTD		TIMES	JD/TIME
TYPE & SN	911+	DATA ON	
PRESS SN	#50405	START DOWN	
TEMP SN	#1390	AT DEPTH	
COND SN	#1072	AT SURFACE	
TEMP SN			

DATA LOCATION	
Tape/Diskette ID	File Name/Header

REMARKS

Calvert

MAX. DEPTH = m

☐ PAR ☐ FLUOR ☐ ChlAM ☐ TRANSMISSOMETER

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA SALINITY	SAMPLE BOTTLE NUMBER Sal.	Nuts.	OTHER	
1	91						054 01			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

PG ___ OF ___

VESSEL		PROJECT & LEG		STATION DESIGNATION
Alpha Helix		HX209		SBC11

CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	25 55 30.42 N	164 11.29 W	20 JUN 98	2030	.	.									97	

CTD		TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	SB911+	DATA ON		Tape/Diskette ID	File Name/Header	
PRESS SN	p5040 5040	START DOWN				
TEMP SN	t1390	AT DEPTH				
COND SN	c501 & 1123	AT SURFACE				MAX. DEPTH = m
TEMP SN	t1391	[X] PAR	[X] FLUOR	[ ] ChlAM	[X] TRANSMISSOMETER	[ ] Cleaned air bleed valve

Trans 4,508 2038 22 June

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											