

CRUISE
NUMBER

9511

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

March 23 - April 11 1995

VESSEL

F/v ANITA J

PROJECT

High Seas Salmon Program
(PBS)

2nd CTD make: SBE model: serial no.: 197957-1294
Temperature sensor model: serial no.: 1294
coefficients: slope: offset:
Conductivity sensor model: serial no.: 1294
coefficients: slope: offset:
Pressure sensor range: 1000 psi serial no.:
coefficients: FSP: dB offset:
Transmissometer model: SeaTech 1000 serial no.: 242
coefficients: slope: offset:
Winches:

1. make: model: serial no.: use:
2. make: model: serial no.: use:
3. make: model: serial no.: use:
4. make: model: serial no.: use:
5. make: model: serial no.: use:
6. make: model: serial no.: use:
7. make: model: serial no.: use:

Salinometer: no make: model: serial no.:
SAIL System:

Program version: Time zone:

Sampling interval: sec

CTF module no.: serial no.:

Remote temperature model: serial no.:
Flow sensor model: serial no.:

Other sensors: (special for this cruise)

Name: module ID: serial no.:
Name: module ID: serial no.:
Name: module ID: serial no.:

Comments:

ADCP Setup:

Program version: number of depth bins:
Time zone: bin length (2x):
Sampling interval: sec pulse length:
Blank beyond transmit: pings per ensemble:
Pulse cycle time:
% pings good threshold:

Comments:

(Port Angeles)

Captain: Christopher Jones
First Officer: David Clark (Idaho)
Second Officer: Kevin McPeters
Third Officer:

Cruise Participants / Agencies:

Scientific Personnel: _____ Party Chief: David Welch (PBS) _____

Name	Watch	Cabin	Name	Watch	Cabin
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Ken Derksen (AMR) 1

Dick Carlson (NOAA)

Peter Rand (UBC)

Luise Timmermans (108)

AMR = Archipelago Marine Research.

Second leg of cruise: _____ Party Chief: _____

	Name	Watch	Cabin
	Name	Watch	Cabin

Data logging system: Unit no.: _____

Program Name: TERM 19 Program version: _____

CTD deck unit make: _____ model: _____ serial no.: _____

Computer make: _____ model: _____ serial no.: _____

1st CTD make: Seacat SBE model: 19-03 serial no.: 195891 - 1031

Temperature sensor

model: _____ serial no.: 1031

coefficients: _____ slope: _____ offset: _____

Conductivity sensor
model: _____
serial no.: 1031 _____

coefficients: slope: _____ offset: _____

Pressure sensor range: 1000 psi serial no: 155452

coefficients: FSP: _____ dB offset: _____

Transmissometer
model: Sea Tech 25cm
serial no.: 254

coefficients: slope: _____ offset: _____

Comments:

Also O_2 Sensor # 230326

O₂ Sensor, Transmissometer and SBF (TD) Strapped together in
Stainless Steel Cage ~ 50 pounds.

PST 04:32 Bernard & I tested the CTD - Results below

PST 9:23

March 23

- Anita J leaves Port Hardy
- Bernard left ~ 7 pm

March 24/95

- 7:45 PST 51 07.31 129 35.34

- plan to do a CTD Cast at 8 AM with everyone on deck - will do surface samplings
- stopped on station 8:30 AM - put some chain between the davit & pulley so it could be reached with the messenger.
- lowered the CTD with calibration bottle.
- there was a longliner in the area that the Captain was worried about.
- the winch was not working properly. - it was fine to ~ 70m, then it started going really fast (out) - braking it would not stop it either - you have to pull it in slightly to stop it.
- there are a lot of ups & downs in the Cast where I was playing with the winch.

March 23 CTD test

in bit H.

we were having some problems uploading - upload errors - could have been power issues. (T1000 were on ship's power)

- Changed SBE batteries - $V_{main} = 8.2 V$

- when no upload errors, files convert ok.

March 24

Station 0

Calibration Bottle

T577

9.260°C

P20995

47.8 dbar

- took a salinity sample from this bottle (sample 1)

10:06 AM

- Uploaded Data: 95110000.HEX → test in Port Handy
95110001.HEX → turned mag switch on too early
95110002.HEX → Actual Cast

- Getting Data upload errors for the last cast.
- Tried uploading again:

95110302.hex (3rd time uploading)

worked without error - but still get
"unable to interpret header ref line" when I try
to convert it.

- uploaded a 4th time with no upload error -
get "unable to interpret ref line"

March 24

2:49 pm

all asleep

51 05.45

131 07.94

All times/dates PST

SO₂ = surface Oxy sample
bottle #
DO₂ = Deep Oxy sample bottle #
INSTITUTE OF OCEAN SCIENCES

DAILY LOG

OCEAN PHYSICS

YEAR		MONTH				SHIP				CRUISE				PAGE		OF	
1995		MARCH				ANITA J				High Seas 1995				1			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS			
24	0	CTD	8:30	BE	0	51-09.2	129-41.16	GPS	800m	~150m	Calib Salinity		MJ	Calibration bottle @ 50 m			
25	1	CTD	9:14	BE	1	50-31.615	134-23.483	GPS		~350m	1 (first surface sample taken)		MJ	erratic speeds - testing			
25	2	CTD	15:00	BE	2	50-39.450	134-50.396	GPS		~320m	2		MJ	Calibration bottle			
26	3	CTD	0800	BE	3	50-24.6	138-22.2	GPS		~340m	3		MJ	Calibration bottle			
26	4	CTD	1300	BE	4	50-23.561	139-12.327	GPS		~340m	4		MJ	no cal bottle			
26	5	CTD	1800	BE	5	50-23.3	140-02.34	GPS		~340m	5		MJ	no cal bottle			
27	6	CTD	0000	BE	6	50-23.3	141-04.82	GPS		350	6		MJ	no cal bottle SST=43			
27	7	CTD	0730	BE	7	50-15.916	142-27.92	GPS		350	7		MJ	Calibration bottle			
27	8	CTD	1200	BE	8	50-18.18	143-01.18	GPS			8	SO ₂ =42 DO ₂ =40	MJ	Calib bottle SST=43			
27	9	CTD	1930	BE	9	50-09.56	143-34.83	GPS			9	SO ₂ =43	MJ	no calib bottle			
28	10	CTD	0000	BE	10	50-07.16	144-13.7	GPS			10	SO ₂ =53	MJ	no calib bottle			
28	11	CTD	0900	BE	11	50-08.9	145-49.7	GPS			11	SO ₂ =54 DO ₂ =60	MJ	Calib Bottle SST=42			
28	12	CTD	1600	BE	12	50-00.2	144-58.6	GPS			12	SO ₂ =56 DO ₂ =49	MJ	Calibration Bottle			
28	13	CTD	2000	BE	13	49-43.4	144-59.9	GPS			13	SO ₂ =48	MJ	no calibration bottle			
28	14	Surface Sample	2300	BE	NONE	49-33.15	144-54.98	GPS			14		MJ	no cast - too rough			
29	15	CTD	0700	BE	14	49-08.24	144-30	GPS		SST=44	15	SO ₂ =40	MJ	no calibration bottle			
29	16	CTD	1400	BE	15	48-40.93	144-19.48	GPS			16	SO ₂ =52 DO ₂ =46	MJ	Calibration bottle			

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
dritter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

March 24 04:40 pm - Stopped to Shake out newnet.

March 25 09:14 am - Stopped On Station to do a CTD cast.
- Seas ROVGT

- After Cast - did a bucket sample - Salinity
Nutrient
Chlorophyll.

SBE 19

V_{main} = 7.8
1 cast (cast 0)
- Data Uploaded without errors Upload Session # 2.

95110200.HEX Stn 1 Cast 1

95110001.CNV

Call this Cast 1 and all other casts numbered hereafter in sequence.

- Cleaned transmiss windows with windex just before Cast.
- NOTE: The clock on the A/R doesn't work - batteries?
so file create times are not accurate.

$$(44 - 32) \times \frac{5}{9} = \frac{12}{9} \times \frac{5}{3} = \frac{20}{3} \approx 7$$

- The Ship's SST is very close to CTD

March 25

- Put this first Cast on Disk 2

- 01:00 Trawled for an hour but didn't catch anything except 2 slimy jelly fish.

Station 2 (0400 PST) - Calibration bottle @ ~320m
- Only a very small sample because somebody grabbed the bottle closer by mistake.

Calibration $T = 6.651$ $P = 323.7$

Uploading

$V_{main} = 7.7$ V

95110300.HEX

95110400.HEX

output

- 95110002.Cnv

(Station 2) "Unable to interpret ref line"
when I try to convert.

- take 2 on uploading
- Conversion worked.

- They were using
the ~~hydrostat~~ hydrostat
so there may
have been
some glitches
the first time

DAILY LOG

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YEAR		MONTH		SHIP		CRUISE										PAGE		OF	
1995		MARCH		ANITA J		HIGH SEAS 1995										2			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE		LONGITUDE		POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS			
29	17	CTD	1930	BE	16	48	26.942	143	54.150	GPS			17	SO ₂ =57	MLJ	no calibration bottle			
29	18	CTD	2330	BE	17	48	03.83	143	50.98	GPS			18	SO ₂ =50	MLJ	no calibration bottle			
30	19	CTD	0700	BE	18	47	13.82	143	29.33	GPS		SST=45	19	SO ₂ =38	MLJ	no calibration bottle			
30	20	CTD	1300	BE	19	46	52.56	142	48.90	GPS			20	SO ₂ =51 DO ₂ =	MLJ	calibration bottle			
30	21	CTD	1800	BE	20	46	43.76	142	15.32	GPS		SST=45	21	SO ₂ =42	MLJ	no cal bottle.			
31	22	CTD	2215	BE	21	45	14.38	141	01.77	GPS		SST=47	22	SO ₂ =45		no cal bottle.			
APR 1	23	CTD	1050	BE	22	44	44.18	140	09.70	GPS		SST=48	23	DO ₂ =55 DO ₂ =44		calibration bottle			
1	24	CTD	1530	BE	23	44	27.41	139	42.39	GPS		SST=49	24	SO ₂ =39		no calibration bottle			
1	25	CTD	1945	BE	24	44	11.91	139	15.91	GPS		SST=49	25	SO ₂ =37		no cal bottle			
1	26	CTD	2230	BE	25	43	58.62	138	55.65	GPS		SST=45	26			no cal bottle.			
2	27	CTD	0730	BE	26	43	18.70	137	50.74	GPS		SST=50	27	DO ₂ =41		calibration bottle			
3	28	CTD	0920	BE	27	42	49.96	136	22.57	GPS		SST=51	28	SO ₂ =31 - new batch DO ₂ =30		calibration bottle			
3	29	CTD	1430	BE	28	42	26.35	136	01.11	GPS		SST=52	29	SO ₂ =19		no calib bottle.			
3	30	CTD	1945	BE	29	41	53.41	135	41.35	GPS		SST=51	30	SO ₂ =7	MLJ	no calib bottle			
3	31	CTD	2245	BE	30	41	26.45	135	37.86	GPS		SST=52	31	SO ₂ =6		no calib bottle			
4	32	CTD	945	BE	31	39	57.90	135	22.48	GPS		SST=52	32	SO ₂ =32 DO ₂ =29		calibration bottle			
4	33	CTD	1430	BE	32	40	29.56	135	06.96	GPS		SST=53	33	SO ₂ =20		no cal bottle			

CAST TYPE -	BOT - CTD - MOR -	bottle cast ctd mooring	ROS - NET - DRF -	rosette net haul drifter	USW -	sea water loop	TIME CODE -	BE - BO - EN -	beginning time of cast bottom time of cast end of cast	DE - MR - RE -	deployment time messenger release recover mooring	POSITION CODE -	RAD - GPS - LOR -	RADAR GLOBAL LORAN
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CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW - sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

March 26 0420 AM - just Completed Bongo

0738 West winds 10 K 5 foot sea unlimited visibility
nice day, eh?

50 24.101 138 18.41

0800 Station 3 Calibration Bottle $P = 333.0$
 $T = 4.257$

- had some troubles with the winch - free wheel pin was stuck - must always be OUT
- instrument hung around at the platform for > 10 min (330m) at thick

Station 3 Downloading Data:

- time in CTD set wrong - it says 19:56 March 25
should be 7:56 March 26
- will set this again after uploading

$V_{main} = 7.5$ volts.

95110500.HEX → 95110003.CNV

- reset Date & Time in CTD.

Station 4 1300 hrs light (~10 K) North West winds Sunny skies moderate breeze
- Cast to last wrap on winch with no calibration bottle.

uploading $V_{main} = 7.5$ V

95110600.HEX

March 26

Station 5

1800 hours.

Winds brisker ~20k
Seas increasing.

no Calibration bottle.

Caught 21 Salmon our last trout!

Station 5 uploading

$V_{main} = 7.4 V$

One small
pink @
Stn 5

95110700.HEX → 95110005.CNV

Station 6

winds ~30k heavy rain - larger swells.

- A lot of surging on the beach were angry
on the beach ~450

So much for our sunny day..

uploading

$V_{main} = 7.3 V$

95110800.HEX → 95110006.CNV

- Bingo @ this station also. Ken & Peter & I on watch

March 27

Station 7 0800 hours

- Same weather as last night - had to change watch batteries partway up
- Calibration bottle - but only getting erratic temp readings

$P = 361.6$

Cal Salinity #7

Uploading

$V_{main} = 7.2 V$

95110900.HEX Receive errors during upload

DAILY LOG

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		APRIL		ANITA J		HIGH SEAS 1995		3						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD-HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
4	34	CTD	1845	BE	33	40 56.41	134 59.69	GPS		SST=55	34	SO ₂ =17		no calibration bottle
5	35	CTD	0730	BE	34	42 50.25	134 47.40	GPS		SST=51	35	SO ₂ =8		calib. bottle didn't trip
5	36	CTD	1415	BE	35	43 21.27	134 43.37	GPS		SST=51	36	SO ₂ =33 DO ₂ =28		calib. bottle
5	37	CTD	1913	BE	36	43 51.47	134 43.07	GPS		SST=51	37	SO ₂ =21		no calib bottle
5	38	CTD	2200	BE	37	43 31.22	134 14.19	GPS		SST=50	38	SO ₂ =21		no calib bottle
6	39	CTD	0935	BE	38	42 36.68	132 52.37	GPS		SST=52	39	SO ₂ =34		no calib bottle
6	40	CTD	1430	BE	39	42 14.63	132 18.40	GPS		SST=53	40	SO ₂ =35 DO ₂ =12		calib bottle
6	41	CTD	1900	BE	40	42 44.58	132 00.48	GPS		SST=51	41	SO ₂ =26		no calib bottle
6	42	CTD	2200	BE	41	43 04.16	131 59.94	GPS		SST=51	42	SO ₂ =23		no calib bottle
7	43	CTD	1000	BE	42	44 38.00	131 51.53	GPS		SST=50	43	SO ₂ =36		calibration bottle
7	44	CTD	1330	BE	43	44 52.21	131 50.27	GPS		SST=51	44	SO ₂ =25		no calib bottle
7	45	CTD	1845	BE	44	45 24.88	131 55.12	GPS		SST=49	45	SO ₂ =24		no calib bottle
7	46	CTD	2200	BE	45	45 43.30	131 45.49	GPS		SST=49	46	SO ₂ =13		no calib bottle
8	47	CTD	1030	BE	46	46 43.40	131 02.20	GPS		SST=49	47	SO ₂ =14 DO ₂ =14		calib bottle
8	48	CTD	1540	BE	47	47 16.08	131 05.85	GPS		SST=48	48	SO ₂ =12		no calib bottle
8	49	CTD	1920	BE	48	47 36.56	131 02.71	GPS		SST=47	49	SO ₂ =11		no calib bottle
8	50	CTD	2220	BE	49	47 52.32	131 03.34	GPS		SST=46	50	SO ₂ =2		no calib bottle

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

USW -

sea water loop

TIME CODE -

BE -

beginning time of cast

DE -

deployment time

POSITION CODE -

RAD -

RADAR

CTD -

mooring

NET -

net haul

DRF -

drifter

BO -

bottom time of cast

MR -

messenger release

GPS -

GLOBAL

MOR -

EN -

end of cast

RE -

recover mooring

LOR -

LORAN

March 27 Stn 7 tried uploading a 3rd time, 95111100.HEX 3 errors on
4th upload! Later, 95111200.HEX - no errors, upload.
max depth 311 m?
Calibration Pressure 361 m? $\rightarrow$ 95110007.~~HEX~~ CNV

Stn 8 1200 hr Calib $T=4.205$
 $P=308.7$ ~45° wire angle outboard.
uploading $V_{main}=7.2$ V - too rough & windy.
95111300.HEX $\rightarrow$ 95110008.CNV

had to change batteries on winch AGAIN.
The batts seem to drain really fast.

Stn 9 uploading $V_{main}=7.2$ V 95111401.HEX $\rightarrow$ 95110009.CNV

March 28 0000 hrs

Stn 10 uploading $V_{main}=7.0$ V 95111500.HEX $\rightarrow$ 95110010.CNV

Stn 11 0930 Calibration bottle $T=4.081$ $P=364.7$

oops! we went 50 miles West of Station P1 } uploading $V_{main}=7.1$ V
But! we're going back... not to worry.

March 28

Stn 11

uploading

5 receive (1st up) 10 K SE wind
[3 receive (2nd upload)]

→ 95111601.HEX → 95111701.HEX

95111801.HEX no upload errors → but, can't convert

95111901.HEX no upload errors converted! 95110011.CNV

1600hr Stn 12 [P]

$T = 4.446$

$P = 301.8$

$Q_2 = 49$

- wire angle $\sim 30^\circ$ outboard - rough & windy.

uploading

$V_{main} = 7.1 V$

95112000.HEX

can't convert!

95112100.HEX

converted. 95110012.CNV

Transmissometer Calibration:

$V_{AIR} = 4.737$

$V_{ZERO} = 0.006 V$

changed CTD batteries: $V_{main} = 8.6 V$

Stn 13

$V_{main} = 8.2 V$

95112200.HEX → 95110013.CNV

Stn 15

Very Rough - lots of kiting - only went to $\sim 200 m$ of wire.

$V_{main} = 8.2 V$

95112300 → 95110014.CNV

$\sim 40 K$ wind big seas

Stn 16

1450 hrs

Calibration

$T = 4.503$

$D = 343.9$

lost a chlorophyll sample overboard!
Weather getting better but still very large swells.
Wind down to ~20k.

uploading

$V_{\text{main}} = 7.9V$

95112480

→

95110015

Stn 17

uploading

2012 hrs

Seas rough - big swells.

$V_{\text{main}} = 7.8V$

95112500 → 95110016

oil everywhere from winch -

Stn 18

uploading

$V_{\text{main}} = 7.6V$

95112600 → 95110017.cnv

Still Rough Seas

Stn 19

0800 hrs

$V_{\text{main}} = 7.5V$

95112701

→

can't convert!

95112801

can't convert!

95112901

95113001

converted!

95110018.cnv

Stn 20

1330 hrs

$V_{\text{main}} = 7.4V$

$T = 5.763$
 $D = 213.01$

95113100

→

95110019.cnv

~45° wind angle
outboard! Rough.

Calibration faulty - but it leaked - we didn't take an oxygen but we

DAILY LOG

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[illegible]

Sta 21

$V_{\text{main}} = 7.4$

95113200 → 95110020

March 31

Sta 22

This is the first station of the day due to rough weather - mainly huge seas.

uploading $V_{\text{main}} = 7.4 \text{ V}$

95113300.HEX → data upload errors

95113400 → can't convert

95113500 → can't convert

95113600 → Converts → 95110021.cuv

April 1/95

0855 Batteries on winch failed & one won't recharge - will do
CTD cast after tow - maybe batho will be better
- seas down wind ~25k

1148 Just completed CTD cast - had to haul it in by
hand - only went to 200m - huge wire angle & seas
lots of water over the rail Cal track is little bit off. Batteries no good - charger on the fire.

Stn 23 uploading

$$V_{\text{main}} = 7.3 \text{ V}$$

95113700

can't convert.

95113800 → 95110022.cnv

April 1/95

Stn 24

$$V_{\text{main}} = 7.2 \text{ V}$$

95113900. HEX → 95110023.cnv

Winch working ok now - Don found another charger

Stn 25

2020 hrs

$$V_{\text{main}} = 7.2 \text{ V}$$

95114000 → 95110024.cnv

Stn 26

2300 hrs

$$V_{\text{main}} = 7.1 \text{ V}$$

Winch troubles again - had to haul the last 50m by hand.

95114100

4200

4300

4400

upload errors

upload errors

upload errors

converted

→ 95110025.cnv

April 2 1017 hrs

Stn 27

Calibration

$$T = 9.470$$

$$P = 98.5$$

~ 45° wire angle.

Winch batteries failed again

$$V_{\text{main}} = 7.2 \text{ V}$$

95114500 → } can't convert.

4600

→

4700

→

95110026.cnv

April 2 1034 hrs Transmiss Calibration $V_{AIR} = 4.701$

$V_{ZERO} = 0.006 V$

April 2 1935 winds 50k gusts to 60
big breaking seas
Dall not ab CTD cast this afternoon - too rough.

Sta 28 Calibration $T = 7.150$ $P = 236.9$

large 140° wire angle - weather improving
uploading $V_{main} = 7.2 V$ 95114800 $\rightarrow$ 95110027.CNV

Sta 29 Hurricane force ($\sim 100k$) winds off Japan/Kanchatka. 2 big
low head p west - on way.

- Don connected the wrench to their 24V supply - so we don't
have to rely on the batteries - works well.

- reset time in CTD (spring forward an hour)

uploading $V_{main} = 7.0$ 95114900 $\rightarrow$ 95110028

Changed batteries in CTD $V_{main} = 8.5 V$

Stn 30 Apr, 1 3 2045 $V_{\text{main}} = 8.3$ 95115000 → 95110029

Stn 31 2346 hrs uploading $V_{\text{main}} = 8.1 \text{ V}$
new winch pwr working well. 95115100.HEX → 95110030.cnv

Stn 32 Beautiful morning 10-15 k light swells clear skies
Cal: $T = 5.889$ $P = 364.2$
uploading $V_{\text{main}} = 8.0 \text{ V}$ 95115200.HEX → upload errors
95115300.HEX → 95110031.cnv

Stn 33 uploading $V_{\text{main}} = 7.9 \text{ V}$
95115400.HEX → 95110032.cnv
Caught a shark in the net (Salmon shark)

Stn 34 1900 hrs April 4/95
uploading $V_{\text{main}} = 7.1 \text{ V}$ 95115500.HEX → 95110033.cnv

tonight we are changing the length of the bridle on the net - so we won't be doing a bongo as the bongo winch will be used. Weather is

April 5 / 95

Stn 35 1009 Calibration Bottle Didn't trip Black knob on top - gone

Uploading $V_{\text{main}} = 7.7 \text{ V}$ 95115600 upload errors.
95115700 → 95110034

Stn 36 1447 hrs Calibration $T = 5.782$ $P = 320.2$
uploading $V_{\text{main}} = 7.6 \text{ V}$ 95115801.HEX → 95110035

Stn 37 1926 hrs uploading $V_{\text{main}} = 7.4 \text{ V}$
heading Southeast again.
95115900 → 95110036.cnv

Stn 38 2305 hrs $V_{\text{main}} = 7.4 \text{ V}$ 95116000.HEX → can't convert.
6100.HEX → 95110037

Stn 39 Apr 6 1019 hrs uploading $V_{\text{main}} = 7.4 \text{ V}$
95116200.HEX → 95110038.cnv

Stn 40 Calibration bottle $T = 6.150$ $P = 311.9$
uploading $V_{\text{main}} = 7.3 \text{ V}$ $95116300.\text{HEX} \rightarrow 95110039.\text{cnv}$

Stn 41 uploading $V_{\text{main}} = 7.1 \text{ V}$
1920 hrs. $95116401.\text{HEX} \rightarrow 95110040.\text{cnv}$ $\begin{matrix} 10.4 \\ 33.4 \end{matrix}$

Stn 42 2309 hrs. $V_{\text{main}} = 7.2 \text{ V}$ $95116500.\text{HEX} \rightarrow 95110041.\text{cnv}$

Stn 43 1033 hrs $V_{\text{main}} = 7.2 \text{ V}$ $95116601.\text{HEX} \rightarrow \text{Can't convert}$
 $\begin{Bmatrix} 9.8 \\ 33.3 \end{Bmatrix}$ $\begin{matrix} 95116701 \\ 95116801 \end{matrix} \rightarrow \text{Can't convert} \rightarrow 95110042.\text{cnv}$

Weather really rough - didn't go to depth.

Stn 44 Messenger wasn't there + bottle wasn't tripped } Still big waves
Maybe there was a break in the wire? }
have a spare though.

$\begin{Bmatrix} 0.0 \\ 34.3 \end{Bmatrix}$ 1352 hrs. uploading $V_{\text{main}} = 7.1 \text{ V}$ $95116900.\text{HEX} \rightarrow 95110043.\text{cnv}$

Stn 45 2001 hrs uploading $V_{\text{max}} = 7.1 \text{ V}$ $\left\{ \begin{matrix} 9.4^\circ \\ 33.3 \end{matrix} \right\} @ 10 \text{ m}$
95117000.HEX $\rightarrow$ 95110044.CNV

Stn 46 - Still quite rough - big swells - large wave angle. West wind
 $V_{\text{max}} = 7.1 \text{ V}$

95117100 $\rightarrow$ 95110045.CNV $\left\{ \begin{matrix} 9.1 \\ 33.3 \end{matrix} \right\}$

April 8 0858 we are just ~~over~~ near Cobb Seamount & will fish here.

Stn 47 Calibration Bottle $T = 4.969$ $P = 348.9$
1125 hrs $V_{\text{max}} = 7.0 \text{ V}$

$\left\{ \begin{matrix} 8.9 \\ 33.2 \end{matrix} \right\}$ uploading 95117200.HEX $\rightarrow$ can't convert
95117300.HEX $\rightarrow$ 95110046.CNV

- Caught 8 Chum and 18 Pinks - now have a total of 87 Salmon.
(haven't caught any Coho)

April 8

Stn 48

1624
uploading

$V_{\text{main}} = 7.0 \text{ V}$

95117400.HEX $\rightarrow$ Can't convert
7500 $\rightarrow$ 95110047.CNV

$\begin{Bmatrix} 8.2 \\ 33.1 \end{Bmatrix}$

Changed batteries in CTD

$V_{\text{main}} = 8.5 \text{ V}$

Stn 49

$V_{\text{main}} = 8.3$

Caught 135 Salmon!

uploading

$\begin{Bmatrix} 8.2^\circ \\ 33.1 \end{Bmatrix}$

2039 hrs

95117600.HEX $\rightarrow$ 95110048.CNV

weather calming although still large swells.

Stn 50

2307 hrs

uploading

$V_{\text{main}} = 8.1 \text{ V}$

95117700.HEX

Can't convert

7800.HEX

$\rightarrow$ 95110049.CNV

Stn 51

1006 hrs

uploading

$V_{\text{main}} = 8.0 \text{ V}$

95117900.HEX $\rightarrow$ 95110050.CNV

$\begin{Bmatrix} 7.9 \\ 33.0 \end{Bmatrix}$

Transmissometer Calib

$V_{\text{AIR}} = 4.764$

$V_{\text{ZERO}} = 0.006 \text{ V}$

April 9 1301

Stn 52

Calibration

$$\overline{t} = 5.088$$

$$P = 317.0$$

uploading

$$V_{\text{max}} = 7.9 \text{ V}$$

9511800a.HEX → Can't connect
8100.HEX → "
8200.HEX → 95110051.cnv

$$\begin{cases} 8.2 \\ 33.0 \end{cases}$$

Stn 53

1657 hrs

$$V_{\text{max}} = 7.8 \text{ V}$$

95118300.HEX → 95110052.cnv

95110052.cnv - problem in calibrating this file - error in writing certain records.
OK

$$\begin{cases} 8.9 \\ 32.8 \end{cases}$$

Stn 54

uploading

$$V_{\text{max}} = 7.8 \text{ V}$$

$$\begin{cases} 8.8 \\ 32.8 \end{cases}$$

1942 hrs

95118400.HEX → 95110053.cnv

Weather getting really rough - breaking waves over side - only shallow east this str.

April 10

1220 hrs - Weather slowly improving - 100 miles from Strait of J de F.
- we are docking in Victoria.