

CRN

9401

DAILY LOG

INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

FEB. 7, 1994 - Feb 18, 94

VESSEL

TULLY

PROJECT

LINE P, WOCE

Captain: JOHN ANDERSON

Second

First Officer: Brian Pennell

First

Second Officer: Alan Coombes

Third Officer: Simon Dockerell

Cruise Participants/Agencies: I.O.S., U.B.C.

Scientific Personnel: Party Chief: RON PERKIN

Name	Watch	Cabin	Name	Watch	Cabin
Bernard Minkley		G	Ron Bellegay		G
John Love		C	Philip Boyd		H
Bill Green		D	Diana Varela		E
Reg Bigham		C	Sean Doherty		F
Dario Stucchi		D	Mark Wen		F
Frank Whitney		B	Hugh MacLean		H

Second leg of cruise: Party Chief:

Third leg of cruise: Party Chief:

Data logging system: Unit number: Guild. 87108/WOCE Program version: V. 1.28

CTD deck unit make: 87108

model:

serial no.:

Computer make: WOCE, 66

model:

serial no.:

Monitor make: NEC 4FG

model:

serial no.:

Printer make: HP L.J. 4

model:

serial no.:

1st CTD make: Guildline

model: WOCE

serial no.: 59901

Temperature sensor

model:

serial no.: 551429

coefficients: slope:

offset:

Conductivity sensor

model:

serial no.: 559143

coefficients: slope:

offset:

Pressure sensor range: 10,000

psi

serial no.: 550395

coefficients: FSP:

dB

offset:

Transmissometer

model:

serial no.: 192D

coefficients: slope:

offset:

Comments:

log in PST

07 Feb 1345 Tully leaves Port Bay for Esquimalt
Graving Dock.

Weather: Sunny, 2.5°C , 25 knot wind.

Rosette 10 litre Bottles

s/n

1	10211	13	10185
2	10503	14	7692
3	10210	15	10199
4	8578	16	10505
5	10186	17	10212
6	10496	18	8586
7	8576	19	10216
8	8572	20	10504
9	7685	21	10491
10	8573	22	10499
1	8601	23	7693
2	8587		

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YEAR 94

MONTH 2

TIME ZONE UTC

SHIP Tully

CRUISE 9401

PAGE / OF

[illegible]

FEB. 10, 2026 UTM : Wind at 36 knots.
Ship has slowed to 5 knots.

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[illegible]

@ 1800 db on the UP CAST

$$.042 = T_{ref}$$

$$.717 = T_{probe}$$

$$2.018 = T_{wab}$$

$$1.7^{\circ} = T_{min}$$

∴ adjust them to equal the T_{min}

ie. add 1.66° to T_{ref}
add $.983^{\circ}$ to T_{probe}

Bill did this ✓

CyD Reference Resistors

$$R_{ref} = 37167$$

$$G_{ref} = -7$$

$$T_{ref} = 3.9^{\circ} = -318.55 + .02015 N_{ref}$$

$$T_{probe} = 4.5^{\circ}$$

$$\therefore N_{ref} = \frac{318.55 + 3.9}{.02015} = 16002$$

"Zero"

$$T = -17.5$$

$$C = 49$$

"Full"

$$T = 5173.72$$

$$C = 417349$$

MP20: Slade wire at 1600m out
Wave height 7-8 m.
CTD has 200 lb weight + pinger.
Wind speed 35 knots, sea building.
Lowering at 50 m/min.

Cast was stopped at ~2000m when the salinity became unstable.

~~Rope to weight~~

- * Rope from CTD to weight was wrapped around the CTD sensor cage upon recovery. This tangle was probably caused by line going slack.

MP19 %T blocked
- 0.15%

Cleaned with
windex
98.7%

* Salinity ~ 3000 showing rapid decreases ~ .05 and generally decreasing trend with depth 2000 ~ 3000m. Aborted cast at 3340 db.

MP14

2600m rosette sample T. not confirmed on first Alt-B
T confirmed on second Alt-B

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[illegible]

- MP19
- ship was under way - about 1 knot
 - data looks cleaner
 - buoys hardly move
 - sea state still has ~ 6 m waves
 - Dario noticed some salinity errors at ~ 3000 m
 - cast was aborted at that point
 - John Love re-built the conductivity cell.
 - one of the thermistors was broken and the fitting was soldered over to seal the hole

- MP14
- Removed thermistors - failed last cruise.
Removed thermistors from CTD setup file,
"ROSETTE.SUP".
 - regreased and cleaned the conductivity connectors and capped the thermistor connectors.

Pinger will not work

Pressure case end caps loose and almost taking in water, only last bore seal stopping leak

all mechanical parts loose inside. Battery holder damaged and its connector broken.

Repaired connector and checked all mechanical fastenings and tightened all screws connectors etc.

Checked battery volts and individual cells all OK.

Reassembled cleaning Orings: checked operation

Note: Pinger bar badly bent - looks like it had been dragged over edge of deck rail

SLow

oxygen flasks 1005 and 1011 broken.

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[illegible]

MP03 : Transistor record looks bad.

[illegible]