

CRUISE
NUMBER

95 06

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

March 29 - April 17, 1995

VESSEL

Tully

PROJECT

North Coast Currents (NERD)

Captain: J. Anderson First Officer: A. Coombs
Second Officer: B. Pennell Third Officer: W. Doerly
Cruise Participants / Agencies: CHS
Scientific Personnel: Party Chief: M. J. Woodward

Name	Watch	Cabin
B. de Lange Boom	12-4	G
R. Dew	8-12	C
L.W. Dorosh	12-4	H
A.N. Douglas	12-4	D
D.C. Simuk	4-8	E
W.A. Sutherland	8-12	F
N.J. Woodward	4-8	A

Second leg of cruise: _____ Party Chief: _____

[illegible]

Data logging system: Unit no.: _____

Program Name: LOSSHELL/CTDACCQ

CTD deck unit make: Gouldline model: _____

Computer make: Dell model: _____

Program version: v. 1.35

serial no.: 58995

serial no.: 450DE

1st CTD make: Guild line model: _____ serial no.: 58483

Temperature sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Conductivity sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Pressure sensor range: _____ psi
coefficients: FSP: 3000 dB serial no.: _____
offset: _____

Transmissometer model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Comments: CTD # 43825 appears to have more spikes in all channels than CTD # 58483

2nd CTD make: Guidline model: 8705 serial no.: 43885
Temperature sensor model: serial no.:
coefficients: slope: offset:
Conductivity sensor model: serial no.:
coefficients: slope: offset:
Pressure sensor range: psi serial no.:
coefficients: FSP: 1000 dB offset:
Transmissometer model: serial no.:
coefficients: slope: offset:

Winches:

1. make: Swann model: 529 serial no.: 1483 use:
2. make: Swann model: 329 serial no.: 1482 use:
3. make: serial no.: use:
4. make: serial no.: use:
5. make: serial no.: use:
6. make: serial no.: use:
7. make: serial no.: use:

Salinometer: make: N/A model: serial no.:

✓ SAIL System: CSAIL DAS

Program version: V4.00 REV.A Time zone: UTC

Sampling interval: 120 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:

BOTTLE CAST & LOOP DATA SHEET

Cruise 9506

CTD Station	Date	Time Z	CTD Cons #	CTD				Thermometer		Sal #	Loop S #	Observ. Initials
				T	C _p	P	S	Left	Right			
MTL1	5 Apr 95	2021	30	1.3 ± 1	.7346	1.0 ± .5	30.82	—	—	—	2	BALB/AD
MTL1	5 Apr 95	2014	30	7.54	.7955	226	33.107	7.548	7.540	3.4	—	BDLB/AD
GG02	7 Apr 95	0850	56	7.88	.75374	75.4	30.953	7.881	7.874	6.7	—	BALB/AD
GG02	7 Apr 95	0905	56	7.882	.7501	(sail)	30.819	—	—	—	5	BALB/LD
LBP7	8 Apr 95	1700	72	3.412	.7473	039	35.549	3.395	3.389	2.10	8	PD/NS
LQ05	9 Apr 95	1515	86	2.372	.7337	1504	34.653	2.376	2.369	*12, 13	—	PD/NS
LQ05	9 Apr 95	1539	86	8.619	.8006	(sail)	32.442	—	—	—	11	PD/NS
JS18	12 Apr 95	1743	114	3.329	.7420	987	34.337	3.333	3.327	15.16	—	PD/NS
JS18	12 Apr 95	1101	114	8.623	.7990	(sail)	32.364	—	—	—	14	PD/NS
JS06	14-4-95	1008	142	8.704	.7998	Sail	32.329	—	—	—	17	BALB/LD
MC16	14-4-95	1803	155	8.775	.7977	60	34.145	—	—	19.20	—	PD
MC16	14-4-95	1810	155	8.829	.7994	Sail	32.193	8.773	8.765	—	19	PD
MC04	15-4-95	0135	168	8.882	0.79207	44	31.799	8.879	8.871	22.23	—	MC
MC04	15-4-95	0141	167	8.962	0.7936	Sail	31.817	—	—	—	21	MC
GK05	16-4-95	1354	200	7.850	0.7934	SAIL	30.542	—	—	—	24	MC
GK05	16-4-95	1400	201	8.370	0.7702	22.6	31.287	8.363	8.354	25.26	—	MC
GN03	16-4-95	2034	207	8.560	0.7778	/oop	31.472	—	—	—	27	30
GI08	17/4/95	0709	215	8.318	0.7635	/oop	31.043	—	—	—	28	30

LEFT T
SN T451RIGHT T
SN T647

*NOTE
BOTTLE
PLACED
1 METER
ABOVE
CTD SENSORS.

CTD Probe

58,483

43,825

CTD Conseq. #15

1-14, 58-183

15-57, 184-220

CTD System Clock 16 sec slow @ {2240 Z 2 April 1995 — no action taken
{1540 PDT

Cable re-spliced after consec 14 — loose wrap caught in drive gears
and severed cable. — wind 1483

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		March		CSS J.P. Tully		9506 Queen Charlotte Id.		1		13				
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
						N	W							
29	NEWS	CTD	2110:58	BE	1	49-14.48	123-41.09	GPS	395	387	—	—	38	Probe 58, 483
31	NEWS	CTD	1628	BE	2	50-46.87	128-31.60	GPS	54m	50	—	—	MBJ	Test cast in Str. of Georgia
31	NEWS	CTD	2024	BE	3	50 47.13	128 47.70	GPS	115	110	—	—	QD	Mooring site SP04
31	NEWS	CTD	2310	BE	4	50 47.71	128 57.70	GPS	105	99	—	—	MBJ	Mooring site SP06
1	NEWS	CTD	1506	BE	5	50 55.35	129 16.59	GPS	120	110	—	—	MBJ	Mooring site SP07
1	NEWS	CTD	2021	BE	6	51 09.71	129 41.08	GPS	275	270	—	—	MBJ	Mooring site SP08
2	NEWS	CTD	0018	BE	7	51 16.86	130 09.80	GPS	923	915	—	—	MBJ	Mooring site QP02
2	NEWS	CTD	1620	BE	8	51 03.63	127 45.36	GPS	94	90	—	—	MBJ	Mooring site SP09
2	NEWS	CTD	1953	BE	9	51 03.95	127 45.96	GPS	97	94	—	—	MBJ	Mooring site EP01
3	FHS1	CTD	0238	BE	10	51 30.65	127 50.14	GPS	155	149	—	—	MBJ	Sea calm
3	FHS2	CTD	0450	BE	11	51 46.23	127° 56.94	GPS	390	385	1-loop	1	QD	Loop sample at 0505 Z T _{SL} = 7.932, C _{SL} = 0.7472
3	NEWS	CTD	1406	BE	12	51° 23.70	128° 02.90	GPS	108	99	—	—	MBJ	Wind E 10, low swell
3	NEWS	CTD	2042	BE	13	51° 50.52	128° 33.64	GPS	137	130	—	—	MBJ	Wind SE 25, mooring Q11
4	NEWS	CTD	1707	DE	14	52 20.92	129° 19.67	GPS	108	100	—	—	MBJ	Wind SE 15, mooring HP14S
4	GN03	CTD	2229	BE	15	52° 16.10	129° 33.45	GPS	212	203	—	—	QD	Change probe to sn 43, 825
5	GP20	CTD	0034	BE	16	52 22.37	129 55.05	GPS	209	204	—	—	MBJ	
5	M006	CTD	0220	BE	17	52 31.43	130 11.13	GPS	303	291	—	—	MBJ	Wind SSE at 17
5	M005	CTD	0309	BE	18	52 32.50	130 03.98	GPS	293	285	—	—	MBJ	WIND 180° @ 15 kn

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

STD/HYDRO #19 - NO DATA - STARTED & STOPPED LOGGING TOGETHER

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		APRIL		CSS J.P. TULLY		9506		2		13				
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
5	M004	CTD	0355	BE	20	52-33.69	129-56.68	GPS	261	250			PD	Probe #43825
5	M003	CTD	0450	BE	21	52-35.29	129-47.24	GPS	178	159			PD	WIND 180° @ 10 kn
5	M002	CTD	0546	BE	22	52-36.82	129-38.03	GPS	175	165			PD	WIND 160° @ 14 kn
5	M001	CTD	0635	BE	23	52-37.65	129-33.79	GPS	95	90			PD	WIND 155° @ 15 kn
5	M000	CTD	0759	BE	24	52-38.48	129-20.35	GPS	130	125			Q&A	WIND 140° @ 15 kn
5	MB00	CTD	0834	BE	25	52-38.45	129-15.53	GPS	172	160			Q&A	wind 105 @ 18 kn
5	CAA1	CTD	1030	BE	26	52-54.58	129-19.36	GPS	257	250			Q&A	wind 105 @ 20 kn
5	CK06	CTD	1519	BE	27	52-19.61	128-59.90	GPS	130	120			PD	wind 095 @ 20 kn
5	GM06	CTD	1657	BE	28	52-07.97	128-58.51	GPS	179	170			PD	WIND 100 @ 20 kn
5	GK05	CTD	18:11	BE	29	52-14.66	128-49.42	GPS	198	187			PD	WIND 115 @ 20 kn
5	MIL1	CTD BOT	20:05	BE	30	52-22.10	128-33.78	GPS	243	229			L.D.	WIND 090 @ 20 kn WIND 095 @ 16 kn LOOP CALIB SAMPLES BOT
5	GK10	CTD	2110	BE	31	52-16.84	128-34.80	GPS	253	249			L.D.	WIND 130 @ 26 kn
5	GK04	CTD	2217	BE	32	52-10.58	128-39.83	GPS	229	227			Q&A	Touched Bottom WIND 130 @ 20 kn
6	GM04	CTD	0108	BE	33	51° 56.62	128° 56.02	GPS	96	86	-	-	W	WIND SE 40+, mod swell
6	GI08	CTD	1339	BE	34	51° 45.79	128 16.41	GPS	143	143	-	-	W	WIND SE 35+, mod swell
6	GI07	CTD	1412	BE	35	51° 44.69	128 20.13	GPS	146	140	-	-	W	WIND SE 35+, mod swell
6	GI06	CTD	1444	BE	36	51° 43.69	128° 24.44	GPS	149	140	-	-	W	WIND SE 35+, mod swell
6	GI05	CTD	1518	BE	37	51-42.22	128-28.05	GPS	148	137			PD	WIND 135 @ 35+ kn

CAST TYPE -

BOT - bottle cast
CTD - ctd
MOR - mooring

ROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE -

BE - beginning time of cast
BO - bottom time of cast
EN - end of cast

DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE -

RAD - RADAR
GPS - GLOBAL
LOR - LORAN

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		APRIL		CSS JP TULLY		9506		3		13				
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
6	GI04	CTD	1607	BE	38	51-40.94	128-33.86	GPS	127	115			PD.	WIND 130°@ 35 ⁺ kn
6	GI03	CTD	1636	BE	39	51-40.27	128-36.24	GPS	40	30			PD	WIND 130°@ 30 ⁺ kn
6	GI01	CTD	1734	BE	40	51-37.36	128-46.34	GPS	38	30			PD.	WIND 130°@ 30 kn
6	C003	CTD	1838	BE	41	51-31.23	128-54.15	GPS	45	36			PD.	WIND 130°@ 25 kn
6	C005	CTD	1913	BE	42	51-28.08	128-54.48	GPS	99	92			QD	Wind 130°@ 35 kn
6	C007	CTD	1952	BE	43	51-24.29	128-54.40	GPS	207	198			QD	Wind 130°@ 30 kn
6	C009	CTD	2032	BE	44	51-21.03	128-54.29	GPS	236	229			QD	Wind 130°@ 25 kn
6	C011	CTD	2146	BE	45	51-15.29	128 (51.9)	GPS	202	198			QD	Long. was truncated Wind 130°@ 25 kn
6	C012	CTD	2215	BE	46	51-12.45	128 50.22	GPS	127	120			QD	Wind 130°@ 25 kn
6	C013	CTD	2244	BE	47	51-09.94	128 48.95	GPS	115	107			QD	Wind 130°@ 20 kn
6	C015	CTD	2329	BE	48	51°05.07	128°46.12	GPS	68	60			QD	Wind SE at 25kn, low swell
7	C017	CTD	0017	BE	49	50°59.55	128°43.22	GPS	75	70			QD	Wind SE 30+
7	C018	CTD	0105	BE	50	50°57.45	128°40.98	GPS	80	74			QD	Wind SE 20-25
7	C019	CTD	0136	BE	51	50°55.29	128°37.23	GPS	78	76			QD	Wind SE 20
7	C021	CTD	0219	BE	52	50°51.18	128°32.27	GPS	52	46			QD	Wind SE 20-25
7	C023	CTD	0255	BE	53	50°48.24	128°27.40	GPS	54	50			QD	Wind E 15-20
7	GG03	CTD	0811	BE	54	50°51.44	127°12.25	GPS	128	124			QD	Wind E 28 kt
7	GG02	CTD	0850	BE	55	50°47.75	127°16.21	GPS	174	175			QD	Wind 110°35 kt

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

Note: For CTD cast 57 and earlier, model # of CTD was set to 8705 in header,
changed to 8715 when probe was changed to deep probe s/n 58483

* CTD System clock slow 47 sec @ 0930Z 7 April 95; clock reset @ this time *

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YEAR		MONTH		SHIP		CRUISE		PAGE						
1995		April		J.P. Tully		9506 Queen Charlotte Id.		4 13						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD-A-HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
						N	W							Probe s/n 43825
7	GG02	CTD	0856	BE	56	50°47.80 N	127°16.14 W	GPS	174	77	5 - loop	1+2	38	Cal cast, 2 sal. bottles
7	GG01	CTD	0941	BE	57	50°43.81	127°19.97	GPS	154	182	—	—	38	Wind 100 30kt
						Switched to probe s/n 58			483					
7	NEWS	CTD	2247	BE	58	51°03.75	127°45.80	GPS	100	96	Between moorings		EPD	Wind 160 T @ 28kt
7	GG07	CTD	2329	BE	59	51°08.32	127°48.27	GPS	69	66	—	—	38	Wind SE ~15-20
8	GG06	CTD	0014	BE	60	51°04.02	127°54.35	GPS	156	150	—	—	38	Wind SE 20G25kn
8	GG05	CTD	0105	BE	61	50°59.59	128°00.38	GPS	87	85	—	—	38	Wind SE 10-15k
8	GG04	CTD	0156	BE	62	50°54.98	128°07.07	GPS	30	24	—	—	38	Wind E 15kn.
8	GG14	CTD	0250	BE	63	50°51.53	128°17.32	GPS	45	40	—	—	38	Low W swell.
8	JS15	CTD	0408	BE	64	50-46.71	128-30.92	GPS	71	62			38	WIND 180° @ 22 kn
8	LBP1	CTD	1039	BE	65	50°04.67	127°52.88	GPS	60	56	—	—	38	Wind 200° T @ 15 kt
8	LBP2	CTD	1056	BE	66	50°03.88	127°54.36	GPS	103	105	—	—	38	Wind 200° T @ 12 kt
8	LBP03	CTD	1111	BE	67	50°03.27	127°55.53	GPS	168	160	—	—	38	Moderate swell
8	LBP04	CTD	1141	BE	68	50°01.47	127°59.13	GPS	955	951	—	—	38	Depth decreased during cast.
8	LBP05	CTD	1232	BE	69	50°00.08	128°00.02	GPS	1285	1280	—	—	38	large wire angles
8	LBP06	CTD	1432	BE	70	49°56.24	128°05.41	GPS	680	682	—	—	38	depth decreased rapidly
8	LBP7	CTD	1551	BE	71	49-52.40	128-11.12	GPS	2185	2173	—	—		WIND 250 @ 12kn
8	LBP7	CTD*	1648	BE	72	49-53.03	128-10.49	GPS		995	* 8-LOOP CALIBRATION	9,10		MESSENGER AWAY 1652

CAST TYPE -

BOT -
CTD -
MOR -

ROS -
NET -
DRF -

USW - sea water loop

TIME CODE -

BE -
BO -
EN -

DE -
MR -
RE -

POSITION CODE -

RAD -
GPS -
LOR -

RADAR
GLOBAL
LORAN

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YEAR	MONTH			SHIP		CRUISE			PAGE	OF				
1995	APRIL			CSS JP TULLY		9506			5	13				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE N	LONGITUDE W	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
														CTD probe # 58483
8	LBP8	CTD	1827	BE	73	49° 48.49	128° 16.75	GPS	2070	2061	—	—	30	WIND 200 @ 4kns
8	LN07	CTD	2238	BE	74	50° 04.41	128° 49.84	GPS	1470	1462	—	—	10	Wind 270 @ 12 kt
9	LN06	CTD	0004	BE	75	50° 08.43	128° 42.55	GPS	1865	1860	—	—	10	Winds light, low swell
9	LN05	CTD	0135	BE	76	50° 12.27	128° 35.91	GPS	1080	1053	—	—	10	Winds light, low swell
9	LN04	CTD	0249	BE	77	50-16.05	128-28.75	GPS	1180	1170	—	—	TD	WIND LIGHT, LOW SWELL
9	LN03	CTD	0403	BE	78	50-19.85	128-22.38	GPS	880	859			TD	WIND LIGHT, LOW SWELL
9	LN02	CTD	0517	BE	79	50-23.43	128-15.92	GPS	170	160			TD	WIND LIGHT, LOW SWELL
9	LN01	CTD	0610	BE	80	50-27.01	128-09.19	GPS	65	56			TD	WIND LIGHT, LOW SWELL
9	JS14	CTD	0933	BE	81	50-47.34	128-48.14	GPS	114	107	—	—	30	Wind 265 T 18kt
9	LQ02	CTD	1023	BE	82	50-43.53	128-54.54	GPS	155	147	—	—	30	Wind 240 T 22kt
9	LQ03	CTD	1141	BE	83	50° 39.78'	129° 01.73'	GPS	1280	1250	—	—	10	Previous depth 1751
9	LQ04	CTD	1301	BE	84	50° 36.92'	129° 09.44'	GPS	1555	1480	—	—	10	drifted into 1490m at end.
9	LQ05	CTD	1428	BE	85	50° 32.02'	129° 17.14'	GPS	1970	1960	—	—	10	
9	LQ05	CTD*	1504	BE	86	50-32.07	129-17.19	GPS		1500	* ^{1100P} Calibration	¹²¹³	TD	MESSANGER AWAY 1504
9	LQ06	CTD	1636	BE	87	50-28.12	129-24.66	GPS	1997	1888			TD	WIND 250 @ 7kns
9	JS18	CTD	1948	BE	88	50-44.76	129-47.70	GPS	2026	2030	—	—	30	Wind 170° at 15 to 18 kt
9	JS20	CTD	2313	BE	89	50° 55.76'	130° 05.60'	GPS	2140	2171	drifted into	2174m	10	Wind SE 20kn
10	GH09	CTD	0042	BE	90	50° 59.92'	130° 00.18'	GPS	2020	2010				Wind SE 23kn, sea building

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

* CTD System clock slow 26 sec @ ~~08~~²⁰/15 Z 10 April 95; clock reset @ this time *

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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
														CTD Probe # 58483
10	JS10	CTD	0357	BE	91	51-07.93	129-34.78	GPS	265	256	—	—		WIND 130 @ 40 kn
10	GH07	CTD	0516	BE	92	51-13.02	129-16.87	GPS	292	280				WIND 130 @ 40 kn
10	—	—	2015	—	—	—	reset clock	—	—	See above	—	—		LAST CAST - BAD WEATHER
11	GG13	CTD	1326	BE	93	51° 10.01'	128° 22.53'	GPS	190	180	—	—		Moderate W swell
12	CO00	CTD	0053	BE	94	51° 35.37'	128° 54.29	GPS	48	42	—	—		Moderate swell
12	CO03	CTD	0134	BE	95	51° 31.18'	128° 54.46	GPS	46	42	—	—		Moderate swell
12	CO05	CTD	0204	BE	96	51° 27.96'	128° 54.43	GPS	103	98	—	—		
12	CO07	CTD	0238	BE	97	51° 24.47'	128° 54.33	GPS	205	203	—	—		
12	CO09	CTD	0314	BE	98	51-21.08	128-54.33	GPS	234	230	—	—	PD	WIND 110 @ 10 kts
12	CO11	CTD	0408	BE	99	51-15.20	128-51.88	GPS	204	200			PD	WIND 120 @ 10 kts
12	CO12	CTD	0443	BE	100	51-12.51	128-50.39	GPS	130	125			PD	WIND 205 @ 15 kn
12	CO13	CTD	0515	BE	101	51-09.97	128-48.63	GPS	114	110			PD	WIND 200 @ 10 kn
12	CO15	CTD	0606	BE	102	51-04.94	128-46.38	GPS	66	60			PD	WIND 170 @ 10 kn
12	CO17	CTD	0652	BE	103	50-59.47	128-42.96	GPS	76	72			PD	WIND 120 @ 10 kn
12	CO18	CTD	0717	BE	104	50-57.35	128-40.64	GPS	79	74				Wind 100 @ 12 kt
12	CO19	CTD	0744	BE	105	50-55.05	128-37.24	GPS	77	70				Wind 120 @ 12 kt
12	CO21	CTD	0823	BE	106	50-51.26	128-32.06	GPS	54	50	—	—		Wind 080 @ 12 kt
12	CO23	CTD	0857	BE	107	50-48.05	128-27.21	GPS	47	40	—	—		Wind 090 @ 12 kt Depth decreased to 45 m @ end

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1995			April			JS Tully			9506			7		13	
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	
															CTD probe # 58483
12	JS15	CTD	0920	BE	108	50-46.58	128-30.98	GPS	71	66	—	—	PD		Rough bottom Wind SE @ 6 kt
12	JS14	CTD	1041	BE	109	50-47.44	128-47.92	GPS	113	106	—	—	PD		Wind SE @ 6 kt
12	LQ02	CTD	1125	BE	110	50°43.54'	128°54.65'	GPS	154	145	—	—	PD		Wind light, mod swell
12	LQ03	CTD	1211	BE	111	50°39.81'	129°02.45'	GPS	1200	1201	—	—	PD		Probe voltage dropped to 80V
12	LQ04	CTD	1326	BE	112	50°35.86'	129°09.32'	GPS	1560	1530	—	—	PD		Depth 1537 at end of cast. Wind light.
12	JS18	CTD	1649	BE	113	50-44.94	129-47.61	GPS	2021	2010	—	—	PD		DRIFTED TO 2017 AT END OF LAST WIND 030 @ 15 kts
12	JS18	CTD	1735	BE	114	50-45.37	129-47.29	GPS	2021	987	—	—	PD		14 LOOP CALIBRATION MESSENGER AWAY 1736
12	GH09	CTD	1947	BE	115	51-00.10	130-00.13	GPS	2013	2007	—	—	PD		Wind 350 @ 15 kt
12	JS10	CTD	2249	BE	116	51-07.94	129-34.85	GPS	265	262	—	—	PD		Wind 340 @ 20 kt
13	GH07	CTD	0022	BE	117	51°13.01	129°17.06'	GPS	289	280	—	—	PD		Wind NW @ 25 kn
13	GH06	CTD	0151	BE	118	51°18.49'	128°59.97'	GPS	246	240	—	—	PD		Wind NW 25 kn
13	CO09	CTD	0229	BE	119	51°21.10'	128°54.35	GPS	235	230	—	—	PD		Wind NW 25 kn
13	GH05	CTD	0331	BE	120	51-24.03	128-42.60	GPS	220	215	—	—	PD		WIND 330 @ 20 kts
13	GH04	CTD	0457	BE	121	51-29.11	128-26.44	GPS	191	185	—	—	PD		WIND 330 @ 22 kn
13	GG11	CTD	0623	BE	122	51-33.05	128-12.96	GPS	95	90	—	—	PD		WIND 330 @ 20 kn
13	GG10	CTD	0704	BE	123	51-25.16	128-14.53	GPS	146	140	—	—	PD		Wind 330 @ 24 kt
13	GG09	CTD	0806	BE	124	51-20.31	128-03.22	GPS	186	155	—	—	PD		Wind 320 @ 20 kt
13	GG08	CTD	0922	BE	125	51-14.47	127-54.71	GPS	137	130	—	—	PD		Wind 310 @ 18 kts

CAST TYPE -

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

USW - sea water loop

TIME CODE -

BE - beginning time of cast
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MR - messenger release
RE - recover mooring

POSITION CODE -

RAD - RADAR
GPS - GLOBAL
LOR - LORAN

* CTD System clock slow 25 sec @ 0935 Z 13 April 95; clock reset @ this time *

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		April		JS Tully		9506		8		13				
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
														CTD probe # 58483
13	GG07	CTD	1021	BE	126	51-08.19	127-48.36	GPS	73	68	—	—	BE	wind 300 @ 18 kt
13	GG06	CTD	1105	BE	127	51°04.15	127°54.91	GPS	154	150	—	—	BE	wind W 25 G 30 kn
13	GG05	CTD	1154	BE	128	50°59.48'	128°00.64'	GPS	82	71	—	—	BE	wind W 25 G 30 kn
13	GG04	CTD	1242	BE	129	50°54.96'	128°07.16	GPS	28	26	—	—	BE	wind W at 35 kn
13	GG14	CTD	1348	BE	130	50°51.57'	128°17.26	GPS	43	40	—	—	BE	wind WNW at 35
13	CO23	CTD	1456	BE	131	50°48.08'	128°27.30	GPS	47	44	—	—	BE	wind NW at 30 kn
13	JS15	CTD	1526	BE	132	50 46.42	128 30.85	GPS	56	55	DRIFTING TO 70M	—	PD	WIND 280 @ 25 kn
13	JS14	CTD	1722	BE	133	50 47.37	128 47.71	GPS	112	105			PD	WIND 300 @ 35 kn
13	JS13	CTD	1955	BE	134	50-49.45	128-58.27	GPS	114	107	—	—	BE	wind 280 @ 30 G 35
13	JS12	CTD	2149	BE	135	50-52.94	129-08.34	GPS	61	57	—	—	BE	wind 290 @ 35 kt
13	JS11	CTD	2336	BE	136	50°59.95'	129°20.91	GPS	183	180	—	—	BE	wind 270 at 30 kn
14	JS10	CTD	0136	BE	137	51°07.88'	129°34.98	GPS	261	255	—	—	BE	wind 280°T at 25 kn
14	JS09	CTD	0335	BE	138	51 16.02	129 49.36	GPS	260	255			PD	WIND 275° @ 37 kn
14	GL04	CTD	0443	BE	139	51 21.27	129 56.43	GPS	250	245			PD	WIND 270° @ 25 kn
14	JS08	CTD	0542	BE	140	51 24.18	130 03.91	GPS	680	650	DRIFTING TO 660 m		PD	WIND 270 @ 20 kn
14	JS07	CTD	0743	BE	141	51-32.51	130-18.89	GPS	989	1003	drifting to 1008 m	—	BE	wind 280 @ 20 kt
14	JS06	CTD	0939	BE	142	51-39.59	130-31.60	GPS	1119	1117	(loop) #17	—	BE	wind 290 @ 18 kt
14	JS05	CTD	1059	BE	143	51°43.91'	130°39.53	GPS	813	812		—	BE	wind 260 @ 15 kt

CAST TYPE -

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CTD -
MOR -
bottle cast
mooring

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rosette
net haul
drifter

USW - sea water loop

TIME CODE -

BE -
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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

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		April		J.P. Tully		9506		9		13				
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
														CTD probe # 58483
14	JS04	CTD	1204	BE	144	51°47.86'	130°46.56'	GPS	251	250	—	—	Ally	wind W at 15 kn
14	JS03	CTD	1240	BE	145	51°50.39'	130°51.55'	GPS	189	181	—	—	Ally	wind W at 10-15kn
14	JS02	CTD	1321	BE	146	51°53.32'	130°56.15'	GPS	90	80	—	—	Ally	wind W at 10-15kn.
14	JS01	CTD	1359	BE	147	51°55.02'	130°59.59	GPS	76	70	—	—	Ally	wind W 10 kn
14	MC21	CTD	1425	BE	148	51°57.39'	130°58.35	GPS	104	100	—	—	Ally	sea rippled
14	MC20	CTD	1446	BE	149	51°57.27'	130°55.14'	GPS	133	130	—	—	Ally	winds light
14	MC19	CTD	1516	BE	150	51-57.22	130-50.13	GPS	190	185	—	—	PD	WINDS LIGHT, RIPPLED SEA
14	MC18	CTD	1540	BE	151	51-57.31	130-47.36	GPS	228	225			PD	WINDS LIGHT, RIPPLED SEA
14	MC17A	CTD	1617	BE	152	51-57.31	130-41.01	GPS	344	340			PD	WINDS LIGHT, RIPPLED SEA
14	MC17	CTD	1658	BE	153	51-57.27	130-34.96	GPS	359	350	DRIFTED TO 355		PD	WINDS LIGHT, RIPPLED SEA
14	MC16	CTD	1749	BE	154	51-57.28	130-26.88	GPS	416	412			PD	WIND 210 @ 15kn
14	MC16	CTD	1803	BE	155	51-57.33	130-26.84	GPS	416	60	18 LOOP *CALIBRATION	13,20	PD	MESSENGER AWAY 1803
14	MC15	CTD	1900	BE	156	51-57.38	130-18.08	GPS	295	290	—	—	PD	wind 140T @ 13 kt
14	MC14	CTD	1941	BE	157	51-57.29	130-10.30	GPS	179	170	—	—	PD	wind 190 @ 22 kt
14	MC13	CTD	2021	BE	158	51-57.15	130-02.23	GPS	142	135	—	—	PD	wind 150 @ 20 kt
14	MC12	CTD	2101	BE	159	51-57.17	129-54.23	GPS	132	126	—	—	PD	wind 140 @ 23 kt
14	MC11	CTD	2142	BE	160	51-57.23	129-45.91	GPS	129	125	—	—	PD	wind 155 @ 21 kt
14	MC10	CTD	2209	BE	161	51-55.14	129-42.31	GPS	198	196	—	—	PD	wind 150 @ 21 kt

CAST TYPE - BOT - bottle cast
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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1995			MONTH April		SHIP J.P. Tully			CRUISE 9506					PAGE 10 OF 13	
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
14	MC09	CTD	2241	BE	162	51-52.86	129-38.44	GPS	243	240	—	—	CTD probe # 58483	
14	MC08	CTD	2313	BE	163	51° 50.38	129° 34.93	GPS	273	270	—	—	wind 150 @ 23 kt	
14	MC07	CTD	2346	BE	164	51° 47.96	129° 32.12	GPS	247	245	—	—	wind from 160 @ 20 kn	
15	MC06	CTD	0012	BE	165	51° 46.09	129° 29.99	GPS	204	200	—	—	low W swell	
15	MC05	CTD	0039	BE	166	51-44.27	129-27.97	GPS	92	86	—	—	slight oil leak which control	
15	MC04	CTD	0130	BE	167	51° 40.18	129° 23.38	GPS	62	60	—	—	wind 130 @ 22 kt	
15	MC04	CTD	0135	BE	168	51° 40.28	129° 23.44	GPS	92	44	Calibration record only			
15	GL01	CTD	0217	BE	169	51° 36.31	129° 24.94	GPS	61	58	—	—	which control repaired ok.	
15	GL02	CTD	0328	BE	170	51-30.30	129-32.37	GPS	144	140			WIND 140 @ 20 kn	
15	GL03	CTD	0546	BE	171	51-24.38	129-50.02	GPS	224	220			WIND 120 @ 18 kn	
15	GL04	CTD	0641	BE	172	51-21.36	129-56.54	GPS	252	245			WIND 120 @ 15 kn	
15	GL05	CTD	0732	BE	173	51-18.27	130-02.69	GPS	336	326	depth decreased to 330 m	—	WIND 080 @ 23 kt	
15	GL06	CTD	0830	BE	174	51-15.13	130-09.10	GPS	905	750	use small winch for cast	—	depth decreased to 893 m wind 090 @ 15 G 18 kt	
15	JS17	CTD	1013	BE	175	51-06.70	130-22.44	GPS	2070	2035	back to std. winch	—	depth decreased to 2035 m wind 080 @ 18 kt	
15	GH11	CTD	1426	BE	176	51° 35.10'	130° 00.13'	GPS	242	240	—	—	wind from 350 @ 20 kn	
15	GH12	CTD	1540	BE	177	51 43.31	129 50.07	GPS	335	330	—	—	WIND 350 @ 20 kn	
15	GP02	CTD	1820	BE	178	52 07.15	129 57.24	GPS	154	151			WIND 340 @ 20 kn	
15	GP04	CTD	1923	BE	179	52-10.22	130-10.23	GPS	304	301	—	—	wind 340 @ 25 kn	

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
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bottom time of cast
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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		April		JP Tully		9506		11		13				
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
														CTD probe #58483
15	GP05	CTD	1952	BE	180	52-11.04	130-13.66	GPS	473	450	depth decreased to 455 m	—	30	wind 340 @ 25 kt
15	GP06	CTD	2028	BE	181	52-12.04	130-18.39	GPS	382	365	depth decreased to 371 m	—	30	wind 330 @ 22 kt
15	GP07	CTD	2114	BE	182	52-13.10	130-23.76	GPS	379	353	depth decreased to 357 m	—	30	wind 325 @ 22 kt
15	GP10	CTD	2244	BE	183	52-17.33	130-43.15	GPS	169	161	depth decreased to 167 m	—	30	wind 310 @ 18 kt
15			2329			Change to 0-1000 dbar		fish - on	43,825				30	
16	M012	CTD	0038	BE	184	52° 22.57'	131° 06.06'	GPS	116	110		—	30	wind W at 10kn
16	M011	CTD	0113	BE	185	52° 23.89'	130° 55.85'	GPS	133	130		—	30	wind light
16	M010	CTD	0156	BE	186	52° 25.52'	130° 46.93'	GPS	107	100		—	30	wind light
16	M009	CTD	0237	BE	187	52-26.92	130-38.23	GPS	129	125		—	30	wind light
16	M008	CTD	0326	BE	188	52-28.55	130-29.02	GPS	175	170			30	WIND LIGHT, SEA RIPPLED
16	M007	CTD	0413	BE	189	52-30.09	130-20.03	GPS	253	250			30	WIND LIGHT
16	M006	CTD	0507	BE	190	52-31.37	130-10.75	GPS	295	290			30	WIND LIGHT
16	M005	CTD	0553	BE	191	52-32.89	130-03.75	GPS	275	280			30	WIND LIGHT
16	M004	CTD	0637	BE	192	52-34.04	129-56.75	GPS	260	255			30	WIND LIGHT
16	M003	CTD	0728	BE	193	52-35.51	129-47.23	GPS	185	175	depth decreased to 179 m	—	30	wind Light W
16	M002	CTD	0813	BE	194	52-36.91	129-37.75	GPS	175 *	169		—	30	* rough bottom wind W 10 kt
16	M001	CTD	0839	BE	195	52-37.80	129-33.49	GPS	94 *	84	depth decreased to 87 m	—	30	* rough bottom wind W 10 kt
16	M000	CTD	0949	BE	196	52-38.63	129-20.53	GPS	131	130		—	30	wind N light airs

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POSITION CODE -

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LOR -RADAR
GLOBAL
LORAN

* clock in CTD system 33 sec slow @ 1000 Z 16 April 95; reset @ this time *

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR	1995			MONTH	April		SHIP	JP Tully			CRUISE	9506			PAGE	12 OF 13	
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			
16	GK08	CTD	1053	BE	197	52-32.13	129-11.02	GPS	149	144	—	—	BE	CTD probe #43,825			
16	GK07	CTD	1147	BE	198	52° 24.97'	129° 08.46'	GPS	136	130	—	—	BE	wind E 8 kt			
16	GK06	CTD	1240	BE	199	52° 19.57	128° 59.89	GPS	129	125	—	—	BE	Deck crew dancing jig.			
16	GK05	CTD	1350	BE	200	52° 14.69'	128° 49.38'	GPS	195	190	loop #24	1	BE	winds light.			
16	GK05	CTD	1400	BE	201	52° 14.78'	128° 49.54'	GPS	195	22.6	Calibration	2526	BE	loop calibration			
16	GM06	CTD	1515	BE	202	52 07.89	128-58.87	GPS	174	170			PD	messengers away 1400:20			
16	GM10	CTD	1638	BE	203	52-11.60	129-16.13	GPS	174	170			PD	WIND LIGHT			
16	NEWS	CTD	1749	BE	204	52-21.57	129-20.07	GPS	95	90	STATION HP14 & HP14S		PD	WIND LIGHT			
16	GN05	CTD	1838	BE	205	52-27.71	129-25.34	GPS	30	24	DRIFTED TO 26M		PD	WIND 180 @ 15 KN			
16	GN04	CTD	1931	BE	206	52-21.90	129-29.15	GPS	108	96	depth decreased to 100m	—	BE	Rough bottom			
16	GN03	CTD	2026	BE	207	52-15.88	129-33.36	GPS	210	206	—	—	BE	Wind 150 @ 20 kt			
16	GN02	CTD	2120	BE	208	52-09.95	129-37.39	GPS	222	218	—	—	BE	Wind 160 @ 20 kt			
16	GN01	CTD	2221	BE	209	52-03.57	129-42.08	GPS	180	175	—	—	BE	Wind 150 @ 20 kt			
16	GH14	CTD	2325	BE	210	51° 59.99	129° 29.98	GPS	208	205	—	—	BE	Wind 160 @ 25 kn			
17	GM12	CTD	0036	BE	211	52° 03.85'	129° 14.49'	GPS	172	170	—	—	BE	Wind 160 @ 23 kn			
17	GM04	CTD	0210	BE	212	51° 56.29'	128° 56.47'	GPS	97	94	—	—	BE	Wind 160 @ 25-30 kn			
17	GM02	CTD	0343	BE	213	51-46.15	128-54.69	GPS	66	60	—	—	PD	WIND 165 @ 30-40 kn			
17	NEWS	CTD	0528	BE	214	51-50.48	128-33.06	GPS	132	125	STATION Q11 & Q11S		PD	WIND 140 @ 35-40 kn			

CAST TYPE - BOT - bottle cast
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POSITION CODE - RAD - RADAR
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INSTITUTE OF OCEAN SCIENCES

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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