

CRUISE
NUMBER

97-43

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

NOV 3 - 25, 1997

VESSEL

J. P. Tully

PROJECT

Acoustics

Captain: _____ First Officer: _____
Second Officer: _____ Third Officer: _____

Cruise Participants / Agencies: IOS

Scientific Personnel: Party Chief: David Farmer

Name	Watch	Cabin	Name	Watch	Cabin
<u>Svein Vagle</u>	<u>SLX</u>	<u>H</u>	<u>Frank Gerdes</u>	<u>FG</u>	<u>B</u>
<u>Johannes Gemmrich</u>	<u>3G</u>	<u>E</u>			
<u>Vadim Polonichko</u>	<u>VP</u>	<u>E</u>			
<u>Mark F Craig McNeil</u>	<u>CM</u>	<u>C</u>			
<u>Nilgun Cetin</u>	<u>NC</u>	<u>D</u>			
<u>Alan Adrian</u>	<u>AD</u>	<u>G</u>			
<u>Nick Hall-Patch</u>	<u>NHP</u>	<u>G</u>			
<u>Andrew Sinclair</u>	<u>AS</u>	<u>F</u>			
<u>Kevin Bartlett</u>	<u>KB</u>	<u>F</u>			
<u>Paal Isachsen</u>	<u>PI</u>	<u>B</u>			

Second leg of cruise: Party Chief: David Farmer

Name	Watch	Cabin	Name	Watch	Cabin
<u>Svein Vagle</u>					
<u>Johannes Gemmrich</u>					
<u>Vadim Polonichko</u>					
<u>Nilgun Cetin</u>					
<u>Alan Adrian</u>					
<u>Nick Hall-Patch</u>					
<u>Kevin Bartlett</u>					
<u>Paal Isachsen</u>					
<u>Frank Gerdes</u>					
<u>Grant Dean</u>					

Data logging system: Unit no.: S/N I2TX5

Program Name: SeaSave

CTD deck unit make: Seabird

model: _____

serial no.: 11-plus

Computer make: Dell

model: _____

serial no.: 433DE

Program version: 4.225

serial no.: IS00775

1st CTD make: Seabird

model: 9plus 6800m

serial no.: 09PI4262-0443

Temperature sensor
coefficients: slope: _____ serial no.: _____
offset: _____
Conductivity sensor
coefficients: slope: _____ serial no.: _____
offset: _____
Pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: _____ dB offset: _____
Transmissometer
model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Comments: Position logged from Trimble NavTrac GPS system - Seasoft always required 2 attempts before getting position information.

DAILY LOG

OCEAN PHYSICS

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YEAR			MONTH		SHIP		CRUISE				PAGE		OF	
1997			November		Tully		97-43				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
03		CTD												
05		CTD	08:24			48 39.037 N	126 39.984 W							
05		CTD	08:34		97430001	48 38.99 N	126 39.96 W			200m			UB	
05		CTD	12:48		0002	48° 42.72 N	126 54.232 W			200m			CM	Seasave adding rubbish lat lon values to data header. Changed 9743.com file to use error flags for non MYEA lat lon from 1997.
05		CTD	14:00		0003	48° 40.65	126 54.81							
05		"	16:25		97430004	48° 40.58	126° 51.775			200			Phan	
05		CTD	18:30		97430005	48° 39.330 N	126° 52.685 W			200			Pri	
05		CTD	19:33		97430006	48° 37.698 N	126 50.397 W			200			UB	25 kts, no preip
05		CTD	20:20		97470007	38.512	52.560			190			Pri	30 kts, no preip
"		"	20:48		0008	48° 37.191 N	126 54.376 W			190			UB	30 kts, no preip
05		CTD	22:15		9730009	48° 38.256 N	126 55.020 W			190			UB	30 kts, no preip
05		CTD	23:17		97430010	48° 39.910 N	126 56.620 W			190			UB	30-40 kts, no preip, one tube disconnected
06		CTD	00:15		97430011	48° 39.120 N	126 53.430 W			190			UG	35 kts, no preip.
06		CTD	01:20		97430012	48° 39.681 N	126° 53.597 W			~200			UG	30-35 kts, no preip
06		CTD	02:00		97430013	48° 38.979 N	126° 54.516 W			~200			UG	35 kts, no preip.
06		CTD	02:55		97430014	48° 38.728 N	126° 53.233 W			~200			UG	35 kts, no preip.
06		CTD	03:45		97430015	48° 39.351 N	126° 55.352 W			~200			UG	35 kts, no preip.
06		CTD	05:06		97430016	48° 40.325 N	126° 54.073 W			200			UG	35 kts, no preip.

CAST TYPE -	BOT - bottle cast	ROS - rosette	USW - sea water loop
	CTD - ctd	NET - net haul	
	MOR - mooring	DRF - drifter	

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
	LOB -	LOBAN

Seamless if you're limit of 200 d bar exceeded
e tube
x-axis limit 200. N.C. $\rightarrow$
is checked
not to be
wonder info

DAILY LOG

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YEAR 1997			MONTH November		SHIP Tully				CRUISE 97-43				PAGE 2 OF	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC) PST	TIME CODE	STD/HYDRO CONSEC # FILE #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
06		CTD	06:08		97430017	48° 39.812 N	126° 54.054 W			200			N.G.	35 knots, no precip.
06		CTD	07:00		97430018	48° 39.637 N	126° 54.835 W			200			N.G.	35 knots, no precip.
06		"	09:10		97430019	48° 38.948 N	126° 49.172 W			200			flm	Winkless @ surface 20m
06		"	10:30		97430020	48° 33.928 N	126° 51.015 W			200			flm	cloudy
06		CTD	12:41		97430021	48° 37.313 N	126° 49.199 W			200			N.B.	15 kts, no precip
06		CTD	16:06		97430022	48° 24.675 N	126° 52.690 W			200			N.B.	12 kts, no precip
06		CTD	18:15		97430023	48° 36.204 N	126° 54.437 W			200			N.B.	12 kts, no precip
07		CTD	00:30		97430024	48° 34.314 N	126° 53.381 W			200			N.G.	10 kts, no precip.
07		CTD	06:45		97430025	48° 33.855 N	126° 59.043 W			200			flm	overcast
07		CTD	19:15		97430026	48° 40.467 N	126° 54.084 W			200			N.G.	3 kts, no precip
08		CTD	00:30		97430027	48° 41.661 N	126° 55.148 W			200			flm	calm
08		CTD	06:05		028	48° 41.131 N	126° 53.539 W			200			Flm	20 kts no prec.
08		CTD	10:55		029	48° 42.350 N	126° 55.531 W			200			J.G.	no prec.
08		CTD	11:30		030	48° 42.171 N	126° 55.071 W			200			J.G.	no prec. 25 kts
"		"	12:10		031	48° 42.097 N	126° 54.692 W			200			Flm	110° No prec 28 kts
"		"	12:30		032	48° 42.136 N	126° 54.798 W			200			J.G.	110° No prec. 27 kts
"		"	13:00		033	48° 42.275 N	126° 53.737 W			200			J.G.	110° No prec. 27 kts
"		"	13:40		034	48° 43.480 N	126° 56.742 W			200			J.G.	110° No prec. 27 kts

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

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1997			November			Tully			97-43			3			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC) PST	TIME CODE	STD/HYDRO CONSEC # FILE #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
08		CTD	14:30		97430035	48° 43.583 N	126° 56.482 W			200m			N.G.	110° No precip. 23-25knt	
08		CTD	15:00		97430036	48° 43.650 N	126° 56.992 W			200m			N.G.	111° No precip. 25knt.	
08		CTD	15:35		97430037	48° 44.018 N	126° 55.381 W			200m			N.G.	110° No precip. 24knt.	
08		CTD	16:20		97430039	48° 46.044 N	126° 56.526 W			200m			N.G.	110° No precip, 22knt. → merge	
08		CTD	17:00		97430039	48° 46.386 N	126° 56.145 W			200m			N.G.	No precip, 25knt 110°	
08		CTD	17:30		97430040	48° 46.416	126° 55.260			200			UP	No precip 25 SE	
08		CTD	18:15		97430041	48° 45.396	126° 56.390			200			N.G.	No precip. 30knt	
08		CTD	18:45		97430042	48° 47.079	126° 55.811			200			N.G.	No precip. 109° 30knt,	
08		CTD	19:07		97430043	48° 47.151	126° 55.437			200			Chn	110° 30knt	
08		CTD	19:34		97430044	48° 47.201	126° 54.881			200			Chn	11	
08		CTD	20:05		97430045	48° 47.895	126° 55.344			100			Chn		
08		CTD	20:32		97430046	48° 47.994	126° 55.049			100			Chn	11 35knt	
08		CTD	21:00		047	48° 48.036	126° 54.767			100			Chn	110° 32knt	
08		CTD	21:30		048	48° 48.283	126° 54.968			100			Chn		
09		CTD	00:70		049	48° 49.192	126° 54.072			100			Chn	110° 35knt gusting 40	
09		CTD	02:03		97430050	48° 49.304 N	126° 53.925 W			200			N.B.	110° 35knt, gusting 40, no precip	
09		CTD	04:08		97430051	48° 50.637 N	126° 55.521 W			200			N.G.	Take to port 90160 net - at 100m 35knt, no precip.	
09		CTD	06:10		052	48° 52.151	126° 55.940 N			200			J.G.	1050 35knt no precip	

CAST TYPE -

BOT -

bottle cast

CTD -

ctd

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mooring

ROS -

rosette

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net haul

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drifter

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sea water loop

TIME CODE -

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beginning time of cast

BO -

bottom time of cast

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end of cast

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recover mooring

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YEAR		MONTH		SHIP		CRUISE						PAGE		OF	
1997		November		TULLY		97-43						4			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE PST	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
08		CTD	08:00	PST	97430053	48°55.046	126°55.893			200			J.G.	110°	30 kts sunny
09		CTD	11:20		97430054	48°57.658	127°00.257			200			N.G.	30-40	110° growing
09		CTD	13:30		97430055	48°57.180 N	126°58.212 W			200			12B	35 kts	107° no precip
09		CTD	15:37		97430056	48°58.761	126°58.830 N			100			elm	30→35 kts	115°
09		CTD	18:08		97430057	48°59.062° N	126°58.217 N			100			elm	28→29 kts.	120° Rose came all of a sudden
"		"	20:08		58	48°59.563 N	126°58.097 W			100			Fi	120°	30 kts
09		"	22:07		97430059	49°01.935	127°01.089			100			elm	115°	30 kts no precip
10		CTD	00:01		97430060	49°04.038 N	127°03.698 W			100			VR	120°	30 kts no precip
10		CTD	02:00		061	49°04.088	127°01.905			200			J.G.	115°	30 kts no precip
10		CTD	04:00		062	49°05.483	127°04.832			200			J.G.	120°	30-35 kts no precip
10		CTD	06:05		063	49°07.002	127°05.407			200			J.G.	125°	30 kts no precip
10		CTD	08:08		064	49°08.040	127°05.508			200			N.G.	130°	25 kts no precip
10		CTD	09:55		065	49°09.052	127°07.142			200			N.G.	35 kts	130° no precip
10		CTD	14:15		066	49°11.16	127°11.43			10			elm	with new O ₂ sensor dangling over back of ship.	
10		CTD	15:30		97430067	49°12.859	127°10.217			200			elm	20 kts	120° time
10		CTD	18:30		97430068	49°03.012 N	127°06.550 W			200			FG	139°	14 kts, no precip
11		CTD	00:00		069	49°04.922	127°08.325			200			J.G.	120°	8 kts, no precip
11		CTD	06:15		97430070	49°09.186	127°12.568			200			N.G.	100°	12 kts, no precip

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		November		Tully		9743		5						
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
Nov 11		CTD	12:38		9743007	49°12.68N	127°14.41W			200m			200	"light airs" no precip
11		CTD	18:15		072	49°14.776N	127°18.047W			200m			J.G.	350° 6Kts, no precip
12		CTD	00:00		073	49°18.865N	127°18.378W			200m			N.G.	0.5kts easterly, no precip
12		CTD	06:15		074	49°20.203N	127°24.246W			200m			Ch	
12		"	11:00		075	49°23.590N	127°27.515W			200m			Pi	20° 30° kts
12		"	15:00		076	49°27.430	127°29.665			200m			J.G.	120° 30 kts no precip
12		"	16:15		077	49°26.062	127°31.484			200m			J.G.	120° 30-35 kts no precip
12		"	16:55		078	49°28.542	127°30.863	next to MARSI		200m			J.G.	120° 30 kts, no precip
12		"	18:05		079	49°28.437	127°31.830			200m			J.G.	120° 30 kts, no precip
12		"	19:05		080	49°29.161	127°31.415			200m			N.G.	125° 28 kts, no precip
12		"	20:05		081	49°30.435	127°30.884			200m			N.G.	125° 25 kts, no precip
12		"	21:05		082	49°30.511	127°31.061			200m			N.G.	110° 22 kts no precip
12		"	22:05		083	49°31.117	127°32.430			200m			N.G.	115° 25 kts, no precip
12		"	23:00		084	49°31.364	127°32.720			100m			Ch	
13		"	00:00		085	49°31.874	127°34.225			100m			Ch	110° 20 kts, no precip
13		"	01:00		086	49°32.440	127°35.363			100m			Ch	
13		"	02:00		087	49°32.932	127°36.565			100m			Ch	25 kts 110°
13		"	03:00		088	49°33.611	127°38.102			100m			Ch	25 kts 110°

CAST TYPE -

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

USW - sea water loop

TIME CODE -

BE -

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EN -

beginning time of cast
bottom time of cast
end of cast

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deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
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YEAR		MONTH			SHIP				CRUISE				PAGE	OF
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
13		CTD	0400		97430089	49° 34.173	127° 38.868			100 m			Plu	
13		CTD	0500		97430090	49° 34.760 N	127° 39.868 W			200 m			Per	100° 20 kts, Full moon!
13		CTD	0602		97430091	49° 35.317 N	127° 41.763 W			200 m			Per	Wind began - started at 19m 100° 20 kts
"		"	0655		92	49° 36.289 N	127° 42.530 W			200 m			Per	105° 28 kts
"		"	0800		93	49° 36.480 N	127° 42.900 W			200 m			Per	110° 27 kts
"		"	0900		94	49° 37.244	127° 43.881			200 m			J.G.	110° 30 kts, clear sky
"		"	1000		95	49° 37.821	127° 44.122			200 m			J.G.	110° 30 kts, clear sky
"		"	1100		96	49° 38.577	127° 45.082			200 m			J.G.	125° 40 kts, "
"		"	12:15		97	49° 38.336	127° 45.748			200 m			J.G.	115° 35-40 kts, overcast
"		"	13:10		98	49° 39.561	127° 46.890			200 m			J.G.	125° 35-40 kts, overcast, no precip
"		"	14:00		99	49° 40.404 N	127° 48.654 W			200 m			N.G.	125° 35 kts, no precip.
"		"	15:02		100	49° 41.179 N	127° 49.941 W			200 m			N.G.	125° 30 kts, no precip.
"		"	16:05		101	49° 41.917 N	127° 50.613 W			200 m			N.G.	125° 30 kts, no precip.
"		"	17:00		102	49° 42.395 N	127° 51.168 W			200 m			N.G.	125° 30 kts, no precip.
"		"	18:		103	49°, ~40' N	127°, ~49' W			200 m			N.G.	125° 35 kts, no precip.
B		"	19:00		104	49° 42.41	127° 48.78			100 m			Plu	125° 30 kts, no precip.
13		"	20:00		105	49° 44.592	127° 55.091			100 m			Plu	Pump turned off on 15th try.
13		"	21:00		106	49° 44.439	127° 54.033			100 m			Plu	120° 30 kts, no precip.

CAST TYPE -

BOT -

bottle cast

CTD -

ctd

MOR -

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 -

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1997			November			Tully			9743			7			
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	
03		CTD	22:00		9743107	49°44.434	127°52.770			100m			llm	32 kts @ 125°	
03		CTD	23:00		9743108	49°44.374	127°51.822			100 m			llm	30 kts @ 140°	
04		CTD	00:06		9743109	49°48.10 N	127°57.18 W			100 m			llm	30 kts @ 130° no pump	
11		"	01:00		110	49°47.489 N	127°57.575 W			100 m			Per	30 kts 125°	
04		CTD	01:59		111	49°47.03 N	127°57.70 W			100 m			Per	28 kts 125° no pump	
04		CTD	03:00		112	49°50.53 N	128°00.80 W			100 m			Per	28 kts 125° no pump	
04		CTD	04:00		113	49°49.98 N	128°00.27 W			100 m			Per	30 kts 115° no pump	
14		CTD	05:05		114	49°50.530 N	128°00.18 W			200 m			J.G.	125° 28 kts no pump	
14		CTD	06:05		115	49°50.61 N	128°02.22 W			200 m			J.G.	125° 30 kts no pump	
14		CTD	07:00		116	49°52.45 N	128°04.09 W			200 m			J.G.	125° 28 kts no pump	
14		CTD	12:00		117	49°49.566	128°08.955			100 m			llm	recovery of mob buoy	
14		CTD	12:51		118	49°53.397	128°05.447			100 m			llm	back at the recovery site of MARS1.	
18		CTD	09:30		119	48°41.973 N	127°10.143 W			1000 m			N.G.	130° 20-25 kts	
"		"	12:30		120	48°44.78 N	127°10.64 W			200 m			Per	120° 30-40 kts no pump	
"		"	13:35		121	48°45.27 N	127°10.03 W			200 m			J.G.	130° 30-35 kts no pump	
"		"	14:35		122	48°45.43 N	127°12.03 W			200 m			J.G.	110° 35-40 kts no pump	
"		"	15:30		123	48°45.07 N	127°11.01 W			200 m			J.G.	100° 40-45 kts, no pump	
"		"	16:50		124	48°47.93 N	127°13.00 W			200 m			J.G.	100° 40-45 kts, no pump	

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 -	CTD -	ctd	NET -	net haul				BO -	bottom time of cast	MR -	messenger release		GPS -	GLOBAL
MOR -	MOR -	mooring	DRF -	dritter				EN -	end of cast	RE -	recover mooring		LOR -	LORAN

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP		CRUISE					PAGE		OF	
1997		November			Tully		9743					8			
DAY (UT)	STATION ID	CAST TYPE	TIME (UT)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
18		CTD	18:40		97430125	48° 49.676	127° 13.524			200m			N.G.	Strong wire angle - not able to go under 190m	
18		CTD	20:02		97430126	48° 50.175	127° 13.374			100m			N.G.	40lb/090°	
18		CTD	21:00		97430127	48° 50.815	127° 13.114			100m			N.G.	45lb/090°	
18		CTD	22:03		97430128	48° 51.232	127° 14.061			100m			N.G.	40-45lb/100°	
18		CTD	23:03		97430129	48° 51.430	127° 14.241			100m			N.G.	40-50lb/095°	
19		CTD	00:05		97430130	48° 51.97 N	127° 14.27 W			100m			Pei	40 lbs / 90°	
19		CTD	01:02		97430131	48° 53.234 N	127° 15.319 W			100m			MB	40 lbs 90°	
19		"	02:15		132	48° 53.79 N	127° 14.59 W			100m			Pei	46-45 lbs 100°	
19		"	08:55		133	48° 57.62 N	127° 20.36 W			100m			J.G.	085° 30-35 lbs, no precip	
19		"	10:00		134	48° 58.27 N	127° 22.67 W			100m			J.G.	090° 25 lbs no precip.	
19		"	11:00		135	48° 59.33 N	127° 23.11 W			100m			J.G.	CTD jammed in A-frame pulley only fish in bycatch no data collected	
19		"	12:10		136	49° 00.231	127° 22.10 W			100m			N.G.	080° 20-25 lbs. no precip	
19		"	13:05		137	49° 01.112	127° 20.36 W			100m			N.G.	NE 10-15 lbs. no precip.	
19		"	14:10		138	49° 01.098	127° 22.248 W			100m			N.G.	Variable 10 lbs. no precip.	
19		"	15:00		139	49° 00.672	127° 21.514			100m			N.G.	" 10 lbs. no precip.	
19		"	16:02		140	49° 00.729	127° 22.447			100m			N.G.	" 5-10 lbs. no precip.	
19		"	16:55		141	49° 00.400	127° 22.276			100m			N.G.	330° 10 lbs.	
19		CTD	18:10		97430142	49° 00.69	127° 23.29 W			100m			MB		

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