

DAILY LOG

CRUISE
NUMBER

2001-21
22
23

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

JULY-OCTOBER 2001

VESSEL

SIR WILFRID LAURIER

PROJECT

ARCTIC - 2001

Captain: NORTH THOMAS First Officer: STEVE AUDRICH
Second Officer: BILL MCINDOE Third Officer: STEVE PAYNE
Mission Participants / Agencies: IOS / NSF / JAMSTEC

Scientific Personnel: Party Chief: BON VAN HARTENBERG CRUISE 2001-22

Name	Watch	Cabin	Name	Watch	Cabin
BON VAN HARTENBERG					
KIYOSHI HATAKEYAMA					
KIYOSAKI FUJISAKA					
JACKIE GREUTER					
HOLLY KELLY					
REBECCA PRYTIE-LAY					
LEE COOPER					
JACK DILLULLO					
VINCE KELLY					
ERIK HABERKEN					
EMILY COOPER					
BRYAN KLOSTERMEIER					

Second leg of Mission: Party Chief: HUMFREY HELLING CRUISE 2001-22

Name	Watch	Cabin	Name	Watch	Cabin
HUMFREY HELLING			JACKIE RICHTER-HENKE		
MARY O'BRIEN			BRUCE ELDER		
LOUISE TIERMANS			SIGRID SALO		
BON VAN HARTENBERG			SIM OVERLAND		
PETER GAMBLE			KOJI SUMIDA		
BON LINDSAY					
SHIGETO NISHINO					
HIRAKATSU UNO					
DARREN TUELE					
DOUG SIEBERG					
DAVID WALSH					

THAN LEG 2001-23 - SEE OVER PAGE IN COMMENTS SECTION
Data logging computer: DELL-200MHz
Data acquisition program: SEASAVE

CTD deck unit make: SEABIRD model: SBE 33 serial number: _____

Primary CTD

Make: SEABIRD model: SBE-25 serial number: 0293
Primary temperature sensor serial number: 03-4544 Calibration date: 01 JAN 01
Primary conductivity sensor serial number: 04-2232 Calibration date: 22 DEC 00
Secondary temperature sensor serial number: _____ Calibration date: _____
Secondary conductivity sensor serial number: _____ Calibration date: _____
Other sensors: PRESSURE STRAIN GAUGE s/n: 29-0442 MAX 1024
Other sensors: SBE 43 - DISSOLVED OXY s/n: 0071 (FACTORY LOAN)
Other sensors: FLUOROMETER SEAPoint s/n: 2336
Other sensors: TRANSMITTER SEATECH s/n: #139
PRESSURE SENSOR - DEEP CASS: s/n 29-0436 MAX 6800m

Secondary CTD

Make: _____ model: _____ serial number: _____
Primary temperature sensor serial number: _____ Calibration date: _____
Primary conductivity sensor serial number: _____ Calibration date: _____
Secondary temperature sensor serial number: _____ Calibration date: _____
Secondary conductivity sensor serial number: _____ Calibration date: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____
Comments: _____

Winches:

1. Swann model: serial #: use:
 2. Swann model: serial #: use:
 3. Swann model: serial #: use:
 4. Swann model: serial #: use:
 5. Swann model: serial #: use:
 6. Swann model: serial #: use:
 7. Swann model: serial #: use:
- Comments:

Salinometer: make: model: serial number:

Comments:

Surface Temperature / Salinity Data Logging System:

Program: _____

Sampling interval (seconds): _____

Sensor serial number: _____

Comments: _____

ADCP Setup:

Program version: _____

Time zone: _____

Sampling interval (seconds): _____

Blank beyond transmit: _____

% pings good threshold: _____

Comments: _____

Number of depth bins: _____

Bin length (2X): _____

Pulse length: _____

Pings per ensemble: _____

Comments:

THIRD LEG OF MISSION CRUISE 2001-23

PARTY CHIEF BOB VAN HARNBERG

SCIENTIFIC PERSONNEL DOUG SIEBERG (IOS)

BILL FLOERING (PMEL)

CAROL DEWITT (PMEL)

SARAH THORNTON (ALASKA)

DAVE KACHEL (PMEL)

TRACY SMITH (ALASKA)

DAVE SMITH (PMEL)

DAVE WISEGARVER (PMEL) GOWS @ DITCH

10/10/2001 AFTER CAST #119 CHANGED SCANTROL SETTINGS AS SPECIFIED
IN WRITE-UP FROM HANDCRAFT FOR AUTOMATICS MODES:

- CHANGED: DEPLOY - MODE 2 PRESS GAIN FROM 25 TO 75
- MODE 2 FIXED FLOW FROM ... TO -160
- MAX TENSION FROM 2000 TO 3000
FOR PMEL: - WIRE SPEED LEFT @ 0.3 m/s

RETRIEVE - MODE WAS 1 SET TO 2
- ~~MODE 2~~ PRESS GAIN FROM 10 TO 25
- MODE 2 FIXED FLOW FROM -50(?) TO -100
- MAX TENSION FROM 2000 TO 3000

HOLD - MODE WAS 1 SET TO 2
M1 FLOW GAIN FROM 10(?) TO 30
M2 PRESS GAIN FROM 25 TO 75
M2 FIXED FLOW ?
MAX TENSION FROM 2000 TO 3000

NOTE: CAST #⁶
STARTED NUMBERING
0117 - REVISED TO 001
118 002
(INFORM SARAH T.)

← RESET TO 1
AFTER CAST #5
AS CTD KEPT COMING UP
WHEN IN "HOLD"

10/11/2001 UPLOAD up 1-000 → 004 (IN DIR = C:\2001-23\)

START: $V_{main} = 13.0$ END $V_{main} = 12.7$

CHANGED REAL-TIME DATA TO 1 SCAN/SEC (WAS 8/SEC)
ALSO CHANGED PRESS. SENSOR RANGE TO 1500 PSIAR (SHOULD HAVE BEEN DONE)
CHANGED COND. TURNON FROM 2670 TO 2700 (AFTER NOME)
CHANGED P-SENSOR T-COMPENSATION VALUE FROM 19 TO -140 (OFF CALIBR. SHEET)

- SET INTERNAL BAUDRATE TO 600 FROM 4800 (COMMAND IS: "SR1" ~~for 600 BAUD~~)
- CHANGE TERM25 BAUDRATE ALSO (FROM 4800 TO 600) (SR4 ~~for 4800~~)

- DISCONNECT CABLE FROM WINCH TO SBE33 DECK UNIT
- PLUG GREY CABLE (w/ BLUE CONNECTOR) BETWEEN SEA CABLE & COM. PORT ON TC
- IN SEASAVE / REALTIME DATASETUP / COMPORT CONFIG / SET RATE BETWEEN SBE33 & COMPUTER TO 600
- CONFIG / WATER SAMPLER CONFIG / FROM SBE CARDUSEL TO NONE

START OF LEG 3

2001-23

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2001					Month OCTOBER		Ship LAURIER			Cruise I.D. 2001-23						
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	01BS4	ROS	0134	BE	001	57 50.665		168 52.226			57.4 57.4	65	568-569	2 ^{SAL}	JW	DOWN @ 0.3 m/s UP @ 1 m/s 2 SAL BOTTLES/BOT#2,5 8 BOTTLES P/MEL/UPF
10	M2-NORTH 01BS-2	ROS	1610		002	57 01.012		164 12.982			67.8	62	570	1 ^{SAL}	J	as above, 1 sal only
10	01BSST-2B	ROS	1739		003	56 52.861		164 03.097			70.4	65	571	1 ^{SAL}		
11	01BSP-2C	ROS	0342		004	56 51.612		164 02.220			70.0	66	572	1 ^{SAL}		SETUP SCANTROL-SEE OPPOSITE PG 7 total bot. P/MEL SAL FROM BOT#3 BEFORE CAST CHANGED SPEED DOWN TO 0.5 m/s CALM, 1.5 m SWELLS DOWNLOAD INTERNAL DATA AS 01230005-HEX
12	01AKP-1A	CTD	1714		005	54 04.005		166 17.641			77	72	—	0		SET "HOLD" TO "FLOW" SEC PRESS=1.7 ~, T ₀ =7.5
12	01AKP-1B	CTD	1940	BE EN	006	54 04.225		166 18.054			77.2	73	—	0	WINCH	
						54 04.343		166 17.993			78					
13	01SN-1A	CTD	1749	BE EN	007	52 15.814		172 44.858			143	137	V=12.5	0		CTD ONLY - DOLPHINS T _{bottom} =3.8 T _{SEC} =7°
						52 15.814 52 15.814		172 44.858 172 25.303			143					
13	01SMP-2A	ROS	2026	BE	008	52 07.853		172 25.303			166	162	V=12.4 downward	(3)		BOT. FOR NUTR.
13	01SMP-2B	CTD	2258	BE	009	52 08.152		172 24.848			164	160	V=12.1	0		AFTER DEPLOY ADD WAT-- ~2m SWELL, WHITECAPS

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooringROS = 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 timeDE = deployment time
MR = messenger release time
RE = recover mooring time

14 OCT 2001 (0611 UTC) UPLOAD CAST FROM SBE25

casts - 0 = 0101 0028 0 - 10599
 1 = 0111 0254 10600 - 18993
 2 = 0121 0403 18994 - 32145

V_{start} = 11.8 V
 RESET MEM

14 OCT 2001 - 1252 UTC UPLOAD 4 CASTS AFTER PIAMP-1

0 13
 1 14
 2 15
 3 —
 4 16

V_{start} = 10.6 V

REPLACED BATTERIES IN SBE25-0293
 9 - D-CELLS —
 CHECKED STATUS : V_{main} = 13.5 V

RESET MEM & CHECK

15 OCT 2001 - 0440 UTC UPLOAD CAST ^{DATA}AFTER PIAMP-028;
 12147 SAMPLES

01230017.HEX

V_{main} = 12.9
 V_{10k} = 5.1

15 OCT 2001 - 1922 UTC UPL CAST RETW. RECOVERED/DEPLOY

01230018.HEX

V_{main} = 12.6

ARGO Deployments (positions provided by Brian Wong)

	SN	Date	UTC	Lat N	Long W
ARGO-1	133	15 OCT	0533	52° 25' N	169° 10.0' W
ARGO-2	132	15 OCT	1303	53 01.49 N	166 45.539 W
ARGO-3	136	19 OCT	0546	54 09.0	150 59.0
ARGO-4	137	19 OCT	1636	54 10.0	140 00.0

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Year					Month			Ship					Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude N	Longitude W	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments	
14	SIAMP-4A	CTD	00:30	BE	010	52 23.288	172 07.471		SIMRAD 360	352		-		DOWN 0.5m/s, UP 1m/s BEFORE ADCP RECOVERY	
				EN		52 23.880	172 06.825		343					START/END POS TO CHECK DRIFT "	
14	SIAMP-3A	CTD	02:55	BE	011	52 24.003	171 55.843		309	300		-			
				EN		52 24.195	171 55.204		303						
14	SIAMP-2A	CTD	04:05	BE	012	52 24.989	171 40.566		448	445		-			
				EN										DOWNLOADED 10, 11 & 12 $V_m = 11.8$	
14	SIAMP-4B	CTD	08:06	BE	013	52 22.692	172 06.612		366	362		-		$P_{SC} = -0.8$	
				EN		52 22.113	172 06.665		371						
14	SIAMP-3	CTD	09:32	BE	014	52 24.383	171 55.466		309	294		-		~1-knot drift.	
				EN		52 24.554	171 55.559								
14	SIAMP-2	CTD	10:58	BE	015	52 25.010	171 40.341		448	440		-		$T_{bottom} = 4.2$	
14	SIAMP-1	CTD	12:23	BE	016	52 26.170	171 27.427		422	415					
14	SIAMP-2B	CTD	18:58	BE	017	52 24.830	171 40.195		441	419				CALM, SUNNY, BIG SWELLS AMAZING ALBATROSSES	
				EN		52 24.583	171 40.253		423						
15	SIAMP-2	CTD	19:08	BE	018	53 56.329	165 55.062		102	98		-		$T_{SC} = 7.5$, $T_{bath} = 7.5$	

Cast type:

BOT = otter cast

ROS = Rosette

LISW = sea water loop

Time Code

BE = bottom event

Cast type:

BOT = otter 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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EN = end of cast timeDE = deployment time
MR = messenger release time
RE = recover mooring time

ARGO Float Deployments
from the
CCGS Sir Wilfrid Laurier

Deploy	Serial Number	Date (Current 2001)	Activation Time (Current)	Deploy Time (Current)	Date (UTC)	Activation Time (UTC)	Deploy Time (UTC)	Latitude (N)	Longitude (W)
Alaskan Time: UTC = current + 8:00									
Argo 01	133	14-Oct	19:45	21:33	15-Oct	03:45	05:33	52 25.00	169 10.00
Argo 02	132	15-Oct	03:52	05:03	15-Oct	11:52	13:03	53 01.490	166 45.539
Argo 03	136	18-Oct	20:48	21:46	19-Oct	04:48	05:46	54 09.90	150 59.90
Argo 04	137	19-Oct	07:28	08:36	19-Oct	15:28	16:36	54 10.00	148 00.00
Argo 05	138	19-Oct	14:58	16:21	20-Oct	19-Oct 22:58	00:21	54 10.00	145 00.00
Time Zone Change -> Pacific Time: UTC = current + 7:00									
Argo 06	139	20-Oct	02:59	04:01	20-Oct	09:59	11:01	54 10.02	142 00.02
Argo 07	140	20-Oct	14:17	15:19	20-Oct	21:17	22:19	54 10.00	139 00.00
Argo 08	331	21-Oct	21:29	22:05	22-Oct	04:29	05:05	51 49.23	131 02.921
Argo 09									
Argo 10									
Argo 11									

Deployed at >2300 metres

Note: **ARGO #08, S/N 331** An extra rubber plug was accidently pushed through the cowling hole.
ARGO , S/N 330 Failure, PTT transmissions irregular. Placed back into Hibernation

The Black Box RS232 Adapter has a 25-pin Female End.

For future deployments, a 25-pin Male to 9-pin Female Serial Adapter and a Serial Extension Cable is required in your kit.