DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month JUL **Year** 2008 **Ship** LSSL **Cruise ID** 2008-30

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
30	XCTD-043	05:17	Z	XCTD			75°55.788	151°21.897	3828	1100			WV/MD		08048183
	CB-7			ADCP											
30	CB-7	08:10	BE	ROS	UN	30	75 59.79	149 58.618	3823						
		09:27	BO				75 59.442	149 58.621		3818	599-622	24	A+ team		
		10:39	EN				75 59.555	149 59.066							
30	CB-7			NETSX2						100					
30	XCTD-45	13:06	Z	XCTD 3			76°29.76'N	150°00.24'W	3891	1100			SN		08048184
30	CB8	16:18	BE	ROS	UN	31	76 59.866	150 2.576	3826				A+ team		
		17:34	BO				77 0.404	150 5.831		3814	623-646	24			
		18:50	EN				77° 1.468	150° 7.806							
30	CB8			NETSX2						100					
30	CB8			ADCP											

Cast Type:
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CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set
USW = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
____ = _____

Bottle Firing Method:
US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Time Code:
BE = Beginning Time of Cast
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Transmissometer to be cleaned before each cast, do not use Ammonia products

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

→ bottle 11, trigger but not tripped. After sampling, did "fired"/feel test on all 24 bottles. They are all triggered o.k.

Found Alk bottles labelled 575 - 598 but empty from cast 29.

— bottle 11 did not close. changed out pylon trigger for cast 32

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
30	XCTD-04	22:36	Z	XCTD			72°21.03	148°22.30'W	3821	1100			WHOI		08048185
31	CB-12	1:47	BE	ROS	US	32	77° 41.030	146° 44.498	3805			24	KS/SZ/MD		CS/I cast
		2:18	BO				77° 40.980	146° 44.099		1000	647-670				
		2:46	EN				77° 46.882	146° 44.20							
31	CB-12	3:20	BE	ROS	UN	33	77° 40.697'	146° 44.723'	3805		671-694	24	KS/SZ/MD		
		4:38	BO				77° 40.211'	146° 46.750'		3801					
		5:49	EN				77° 39.914'	146° 48.798.							
31	XCTD-48	08:50	Z	XCTD3			77° 51' N	148° 20' W	3822	—			SN		08048186
31	XCTD-48	9:13	Z	XCTD3			77° 51.53' N	148° 20.45' W	3821	1100			SN		08048187
31	CB-9		RE	MOR									WHOI		
01	CB-9	0052	BE	ROS	UN	34	78° 0.176	150 10.510	3818	~3806	695-717	23	MD/WW/KS/SZ		Long set up time due to positioning ship in ice
		0212	BO				78 0.324	150 9.17							
		0325	EN				78° 0.108'	150° 7.910							

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Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

cast 32
- fired bottles after a 30 sec. pause, 1m up, 2m down, 1m up, and a 30 sec pause at prechosen depths.
- It started snowing during the cast

Cast 33
- snowing during cast.

← No Data (XCTD-48)
← New XCTD 48 at same location.

Cast 34
Upward looking LADCP remounted for cast 34
Repaired but compass, tilt & roll not working.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month AUG **Year** 2008 **Ship** LSSL **Cruise ID** 2008-30

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
	CB-9			ADCP											
	CB-9			Nets						500					one cast
	CB-9			Nets x2						100					one cast
01	CB-9	BE	08:10	ROS	US	35	77 58.646	150 11.868	3818		718-741	24	EF/WB		CS/T
			08:44				7758.68	150 13.04		1000					- Pump wasn't turn on need to re-cast
		EN	09:28				7758.787	150 15.198							
01	CB-9	BE	10:05	ROS	UN	36	77 58.931	150 16.866	3818		742-758	17			part calibration cast / part surface geochem
							77 59.036	150 17.738		800					
		EN	10:59				77 59.264	150 18.878							
01	CB-9			Nets	↑					50					cut short from ice
01	CB-9			NETS	↓					1000					

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Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

- Mike changed Trans sensor – put wetlabs CST1R transmissometer SN #993 on channel 0. Calibrations changed in 200830_035.con
- Seasave does not start properly, need to restart while ROS is in water soaking.

↑ calibration ~~terms were checked on deck test and~~ test made by MD + terms were found to be the same.

config file renamed:

200830_2aug2008.con

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							Latitude	Longitude							
	CB-9		DE	MOR											
	CB-9		BE	PUMP											
			EN												
	CB-9			ZODIAC											0,5,10 m samples 40 m cast, SWSW/SWT
02	XCTD-048	02:46	Z	XCTD 3			78°05,115	151°03,63W	3830	1068			WD/MD		08048188
02	XCTD-050	03:58	Z	XCTD 3			78°09,513	151°48,71W	3834	1100			WD/MD		08048212
02	XCTD-051	05:06	Z	XCTD 3			78°17,58N	152°31,32W	3650	1100			WD/MD		08048211
02	XCTD-052	05:41	Z	XCTD 3			78°16,28N	152°56,24W	3314	1100			WD/MD		08048208
02	CB-10			ADCP			78 19.726	153 01.143	3224						
02	CB-10	06:54	BE	ROS	UN/US	37	78 19.753	153 01.256	3197						- Altimeter not work
		07:57	BO				78 19.805	153 02.797		3090	759782	24	CT/WR/Autosam		- Sonde shows bottom depth 3090, since on slope, probably bottom-10, bottom @ 3100.
		09:01	EN				78 20.103	153 03.316							

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Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

- Forget to enter station name in file. Use editor to change "stn_name.hd" file

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month Aug **Year** 2008 **Ship** CCGS **Cruise ID** 2008-30

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
02	CB10a2	10:44	BE	ROS	US	38	78 20.170	153 21.571	2281		783-806				
		11:09	BO				78 20.174	153 21.432		1000		24	EF/WB	Attem	
		11:50	EN				78 20.386	153 21.335							
02	CB10a2	12:28	BE	ROS	UN/US	39	78 20.376	153 21.667	2297		807-830		EF/WB	Atte	
		13:22	BO				78 20.309	153 19.519		2295		24			
		14:16	EN				78 20.357	153 18.696							
02	CB10a	16:36	BE	ROS	UN/US	40	78 17.557	154 04.994	940		831-851		EF/WB	Atte	
		17:00	BO				78 17.382	154 06.145		916		21			
		17:30	EN				78 17.098	154 06.281							
02	CB10a			Net						100					one cast done with crane
02	XCTD-053	21:40	Z	XCTD3			78°22,738N	153° 24,594W	1804	1100			WW/MD		08048209
02	XCTD-054	22:00	Z	XCTD3			78°27,20N	153°11,57W	2786	1100			WW/MD		08048206
02	XCTD-055	22:38	Z	XCTD3			78°28,200N	152°57,44	3484	1100			WW/MD		08048248
02	XCTD-056	23:30	Z	XCTD3			78°36,55N	152°27,68 W	3823	1100			WW/MD		08048205
03	XCTD-057	00:38	Z	XCTD3			78°43,77N	151°41,72W	3822	1100			WW/MD		08048202
03	XCTD-058	02:06	Z	XCTD3			78°48,81N	151°02,81W	3830				WW/MD		08048201
				DRF											WHOI deployed Profiling Float @ CB10a2

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Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

← ADCP deployed before Cast 38 (10:35)
recovered after Cast 39 (14:29)

after cast 40 checked 1° Xmiss s/n 993 (VØ) on deck because it was noticed on last cast to disagree by −5% with 2° Xmiss. Found dirty connector at sensor end. cleaned and June 8 calibration still good.

} On ice sampling by Alice Ohrlich, Kristian Brown + Gary Morgan + Chris Swanell
when? Aug 2 @ location?

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month Aug **Year** 2008 **Ship** LSSL **Cruise ID** 2008-30

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
				Net?											
				ADCP?											
3	CB-11	4:41	BE	ROS	UN/US	041	79° 1.046	149° 53.396	3819.		852-875	24	KS/M.D./SZ	✓	
		6:06	BO				79° 0.756	149° 51.133		3810					
		07:23	EN				79 0.427	149 48.654					EF/WB		
3	LAKE LOUIS		BE	ICE CAMP											
			EN												
				Buoy:	ITP										
				On ice sampling:			ice depth, ice core, snow samples								
3	XCTD-059	11:46	Z	XCTD 3			79° 30.102N	149° 59.352 W	3820	1100			SN		080482054
3	CB11B			NETS						100					
3	CB11B	16:49	BE	ROS	UN/US	042	80 01.260	149 47.341	3817		876-899	24	EF/WB		
		18:03	BO				80 01.303	149 47.424		3795					
		19:26	EN				80 1.444	149 39.130							
4	XCTD-060	01:36	Z	XCTD 3			80°20.08'	150 11.92 W	3806	~~1100~~ 0	~~=~~		WV/MD		080482057
04	XCTD-061	03:56	Z	XCTD 3			80°38.65	148° 58.48 W	3800	1100			WV/MD		080482~~10~~
				Nets						100					

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WaterProperties.ca
Version: 06 March 2008

- Tilt on Rosette at surface appears to be < 2°
- small bend in wire ~30 m from termination seen on deck.

← Buoy work by WHOI
On ice sampling : Alice Ohrlich, Kristina Brown, Nes Sutherland, Brian Hunt

DAILY SCIENCE LOG

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Month AUG **Year** 2008 **Ship** LSSL **Cruise ID** 2008-30

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
04	NW1			ADCP											
04	NW1	07:04	BE	ROS	UN/US	043	81 1.714	149 50.994	3796		900-923	24	EF/NUR(AM team)		Lots of ice found swimming past
		08:17	BO				81 1.69	149 47.723		3783					
		09:33	EN				81 1.409	149 46.588							
04	XCTD-062	10:39	Z	XCTD3			81 06.223	149 48.192	3793	1100			SN		080 48 191
04	XCTD-063	12:22	Z	XCTD3			81 14.501	150 01.761	3794	1100			SN		080 48 190
04	XCTD-064	15:02	Z	XCTD3			81 30.396	149 59.321	3793	1100			SN		080 48 189
04	XCTD-065	17:06	Z	XCTD3			81 44.863	149 52.082	3788	1100			SN		080 48 192
		18:30		Nets			81° 44.359N	150° 24.357		100					1x100
04	ICE CAMP Moonscape		BE	ICE CAMP											
			EN												
				Install ITP + Heat Flux Buoy : Rick, Will, Jim, David G											
				Ice Sampling: ice depth, ice core, snow sample? : Alice, Kristin, Brian, Jos, Mike, Kenny											
				LADCP Calibration : Waldek											
				Crew: Gary + David McGrath											

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Notes: _____

Produced by the Water Properties Group, IOS

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Version: 06 March 2008

change batteries and attempt compass calibration on downward looking camera.

UTC = Local + 6

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month Aug **Year** 2008 **Ship** CCGS Louis St Laurent **Cruise ID** 2008-30

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
				Knudsen	: 3rd	Mate	changed	MIN	MAX	settings	to	2500-	3500	during	
	watch. It	appears	bottom	also	should	to	2500	at	this	time.	Real?	likely			
	although	we	don't	know	how	shallow	it	may	have	been					
					Δ	2500 - 3500	btw	1800	UTC	Aug 4	and		Aug 5	0200	UTC
			⇒	Sounder	was	changed	to	2000 -	4000	m	limits	at	Aug 5	0240	UTC
				depth is	3200	at	0301	Aug 5	UTC	SS	1479	m/s			
05	NW-02	0407	BE	ROS	UN	44	82 0.28	149 57.738	3169		924-947	24	KS/MD/KY/LWW	✓	
		0615	BO				82 0.431	149 56.471		3160					
		06:22	EN				82 0.612	149 54.088							
05				ADCP											
05	NW-02			NETS						100					

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WaterProperties.ca
Version: 06 March 2008

cast 44 – ADCP VMDAS s/w crashed during start up. File 200830_051.ENR is empty. When restarted, saved as file 200830_052.ENR.
Downward looking LADCP had water in transducer. Rx section of PCB water damaged by:

DAILY SCIENCE LOG

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05	XCTD-066	8:25	Z	XCTD3			82° 14' N	149° 06' W	3085	—			SN		08048195
05	XCTD-066	8:35	Z	XCTD3			82° 14.847'N	149° 06.599'W	3085	1100			SN		08048196
05	XCTD-067	11:00	Z	XCTD3			83° 29.420'N	150° 00.279'W	3057	1100			SN		08048199
05	XCTD-068	12:39	Z	XCTD3			82° 44.802'N	150° 00.499'W	2797	1100			SN		08048193
05	NW3			ADCP											
05	NW3	15:35	BE	ROS	UN/US	045	83 01.788	149 59.498	2918		948-971		EF/JR		Sunny, not too much ice, big swimming pool.
		16:37	BO				83 01.777	149 58.088		2890					
		17:45	EN				83 01.856	149 56.192							
05	NW3			Net x2						100					
	NW3			Zodiac											
	NW3			DRF											DRIFT Bottles x LOTS
	NW3			TIE											
06	XCTD-069	01:06	Z	XCTD3			82°51,33'	148°27,38W	2754	1100			WW/MD		08048194
06	XCTD-070	03:14	Z	XCTD3			82°41,67'	146°55,41 W	2716	1100			WW/MD		08048197
0600	XCTD071	05:18	Z	XCTD3			82°33,23'	145°21,306W	2555	1100			WW/MD		08048200
06	XCTD-072	07:43	Z	XCTD3			82° 25,018	143° 51,849 W	3065	1100			SN		08048198

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Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

← No Data (XCTD-066)
← New XCTD-066 at same location

→ Soak at 20 m., cups fired at 20 m.
→ Stop at 20 m & 20 m to recover stranded cups

Both LADCPs removed.

DAILY SCIENCE LOG

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Month Aug **Year** 2008 **Ship** LSSL **Cruise ID** 2008-30

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
06	XCTD-073	10:36	X	XCTD1			82° 12.158N	141° 53.676W	2938	1100			SN		070/330
06	NE3	14:12	BE	ROS	UN/US	46	81 59.428	140 0.977	3524		972 - 995				Ros operation
		15:19	BO				81 59.592	140 1.866		3506		24			during meal hours
		16:30	EN				81 59.810	140 2.177							
06	NE-3	19:24	BE	ROS	UN	47	82° 0.230	139° 59.855	3447		996 - 1004	9	M.D/K.Y/K.S/S.Z. ✓		- calibration cast.
		1944	BO				82° 0.250	139° 59.383		1002					
		20:30	EN				82° 0.266	139° 58.266							
06	NE-3			Net x2						100					
	NE-3			DRF											ITP, SAMS
	NE-3			ICE Sampling											

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WaterProperties.ca
Version: 06 March 2008

- use bubbler to push ice away for ROS operation.

cast 47

- There was ~3-4° angle on the roselle, weight @ the bottom was removed. LADCP was mounted back on the rosette causing the imbalance.
- Stopped 30sec. → up1, down 2, up1 → waited 30 secs before tripping each bottle.

Downward looking ADCP remounted for cast 47.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month Aug **Year** 2008 **Ship** LSSL **Cruise ID** 2008-30

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
07	XCTD-074	00:17	Z	XCTD			81°45,04	140°01,69W	3676	1100			WD/MD		07012331
07	XCTD-075	02:19	Z	XCTD			81°30,14	140°02,54W	3748	1100			WD/MD		07012332
07	XCTD-076	04:21	Z	XCTD			81°15,03	140°02,47W	3755	1100			WD/MD		07012334
07	NE2			APCP											
07	NE2	06:50	BE	ROS	UN/US	48	81 1.222	140 06.316	3753		1005-1028				missed bottle 10, T-hx 386y, fired both bottle 10 & 11 at 310m.
		08:02	BO				81 1.066	140 04.144		3742		24			
		09:17	EN				81 0.858	140 02.761							
07	XCTD-077	11:35	Z	XCTD			80° 45.007'N	140° 06.500'W	3756	1100			SN		070 12335
07	XCTD-078	13:25	Z	XCTD			80° 30.289'N	139° 58.871'W	3759	1100			SN		070 12333
07	XCTD-079	15:17	Z	XCTD			80° 15.344'N	139 58.878'W	3763	1100			SN		070 12336
07	NE1	17:29	BE	ROS	UN/US	49	80 1.739	140 4.03	3758		1029-1052	24	S.Z./MD/KS.		
		18:48	BO				80 1.582	140 1.141		3756					
		20:08	EN				80 1.309	139 58.223							

Cast Type:
BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set
USW = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
___ = _____

Bottle Firing Method:
US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Time Code:
BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned before each cast, do not use Ammonia products

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
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