

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2008 - 41

DATE:

From: JUNE 16 2008 to: JUNE 22, 2008

VESSEL:

CCGS VECTOR

PROJECT(S):

STRAIT OF GEORGIA, JUAN DE FUCA
WATER PROPERTIES SURVEY

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
Sidney, BC, Canada

WaterProperties.ca

Captain: TOM HULL
 Second Officer: COLUM SANDS
 Fishing Master: _____
 First Officer: JEFF OLSSON
 Third Officer: WHITE WATCH

Mission Participants / Agencies: 105

Scientific Personnel: Chief Scientist: PETER CHADLER

Name	Watch	Cabin	Name	Watch	Cabin
PETER CHADLER	8-12		MATT & MIKE	NOON-MID	
SARA FISSEL	8-12				
DAVID TIMOTHY	4-8		CHANTAL & TARA	MID-NOON	
LIZETTE BRAUCHMAN	4-8				
SNEHA SOMAN	12-4		LLOYD, MIKE, LIAM		
MEANIE GUYENVILLE	12-4				
RONNIE DUNE	12-4				

Second leg of Mission:

[illegible]

Data logging computer:

Data acquisition program: _____

CTD deck unit make: _____ **model:** _____ **serial number:** _____

Primary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____ s/n: _____
Model: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump? _____

Oxygen sensor: _____
 Model: _____ s/n: _____
 P, S or NO pump? _____

PAR sensor:	Model:	s/n:
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Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors:	s/n:	P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Secondary CTD

Make: model: serial number:

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump? _____

Oxygen sensor: _____
 Model: _____ s/n: _____
 P, S or NO pump? _____

PAR sensor: _____ Model: _____ s/n _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____

s/n: _____

P, S or NO pump? _____

CTD calibration bottle location (height above CTD in metres):

DAILY SCIENCE LOG

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Month <u>June</u>				Year <u>2008</u>			Ship <u>Valer</u>			Cruise ID <u>2008-41</u>					
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							
17	51	0017	BE	ROS		1	48 39 360	123 30.006	100		1-9	9	WJG	✓	rossette bottle #13 find
		0020	BO				48 39 322	123 29 994							but did not trip
		0030	EN				48 39 240	123 29 970							
17	58	0218	BE	CTD		2	48 43 058	123 14.296	340			-	WJG	✓	
		0227	BO				48 43 026	123 14 114		334					
		0234	EN				48 42 953	123 14.126							
17	59	0313	BE	ROS		3	48 37 818	123 14.573	207		10-23	14	R/SF	✓	
		0319	BO				48 37 890	123 14 578	232						
		0334	EN				48 37.925	123 14 658							
17	60	0420	BE	CTD		4	48 33.740	123 12 829	302				R/SF		
		0428	BO				48 33 589	123 12 830	306						
		0435	EN				48 33 526	123 12 830							
17	61	0521	BE	CTD		5	48 29 264	123 9.334	221				R/SF		
		0529	BO				48 29 296	123 9.373	287						
		0535	EN				48 29 323	123 9.467							
17	56	1155	BE	ROS		6	48 46 373	123 1.614	215	214	24-37	14	WJG	✓	slowed down
		1202	BO				48 46 380	123 1.566		213					1050m to take core
		1218	EN				48 46 390	123 1.580							off anchor

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

Notes:

Time Code:

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

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- sunny afternoon - depart 16:40 local time
- Saavedra Inlet station - 100 m - top all bottles to test #13 modified
- computer date needs to be reset
- 10:40 local time proceed to western entrance of Strait of Juan de Fuca

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Month				Year			Ship				Cruise ID				
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							
17	47	1308	BE	CTD		7	48 49 925	123 6 180	186		—		B/OT	✓	date is June 16
		1313	BO				48 49 288	123 6 179		184					on computer
		1317	EN				48 49 276	123 6 185							
17	48	1350	BE	CTD		8	48 51 590	123 3 121	230		—		B/OT	✓	1m from bottom
		1355	BO				48 51 656	123 3 023		212					depth from
		1400	EN				48 51 630	123 2 944							transducer/act
17	49	1432	BE	CTD		9	48 54 994	122 59 686	132		—		B/OT	—	
		1436	BO				48 54 996	122 59 676	119	128					
		1439	EN				48 54 984	122 59 682							
17	50	1510	BE	CTD		10	48 57.734	122 56.104		27			RE/SF	✓	
		1510	BO				48 57.737	122 56.102							
		1511	EN				48 57.737	122 56.098							
17	44	1601	BE	CTD		11	48 56.813	123 6.010		108			RE/SF	✓	Tested PAR (results see
		1603	BO				48 56.813	123 6.007							PAR (ref.) 2m (quality
		1606	EN				48 56.803	123 6.006							2m (quality 100% (ref.)
17	46	2206	BE	ROS		12	48 51.438	123 10.818	219	178	23-49	12	everyone	✓	NO-observation
		2210	BO				48 51.493	123 10.832							
		2223	EN				48 51.697	123 11.029							

This page is for any notes or observations

STEVE 6868

0910 local time - suspend science program - head to Port Bay for science equipment exchange

Sheela off - Romi on

- 1300 local time - emergency station's drill

DAILY SCIENCE LOG

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							Latitude	Longitude							
17	45	23:19	BE	CTD		13	48 53.909	123 8.414	126	120.5			KQ/LP/DT	✓	
		23:21.22	BO				48 53.956	123 8.479							
		23:24.46	EN				48 53.963	123 8.534							
18	43	102	BE	CTD		14	49 0.224	123 30.114	200				10/DT	✓	
		1 07	BO				49 0.229	123 30.124		196					
		1 12	EN				49 0.229	123 30.127							
18	42	132	BE	ROS		15	49 1.897	123 26.021	319		50-65	16	7M/DT	✓	
		144	BO				49 1.861	123 25.961		315					
		201	EN				49 1.790	123 25.786							
18	41	231	BE	CTD		16	49 3.432	123 22.576	248				7M/DT	✓	50L collected @ 190 mabtrans, S=30.8
		236	BO				49 3.425	123 22.561		245					
		244	EN				49 3.401	123 22.480							
18	37	03 57	BE	CTD		17	49 13.591	123 20.494	219						
		04 01	BO				49 13.592	123 20.466	208	203			R/SF		
		04 04	EN				49 13.584	123 20.431							
18	38	04 40	BE	CTD		18	49 12.043	123 26.288	296					✓	
		04 45	BO				49 12.037	123 26.262	309	300					
		04 50	EN				49 12.038	123 26.120							

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Wind lost SEABIRD depth readout - fiddle) with connections - ok

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Month JUNE				Year 2008			Ship VECTOR				Cruise ID 2008-41					
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								
18	39	05 32	BE	ROS		19	49 9.865	123 32.820	388		66-82	17	R/SF	✓		
		05 37	BO				49 9.886	123 32.753	376	349						3 m from bottom
		05 55	EN				49 9.947	123 32.648								
18	40	06 28	BE	CTD		20	49 8.681	123 36.740	146					✓		
		06 32	BO				49 8.717	123 36.713	157	154			R/SF			
		06 35	EN				49 8.705	123 36.716								
18	26	07 52	BE	CTD		21	49 14.327	123 53.809	257	250			MQ/RD	✓		
		07 58	BO				49 14.328	123 53.785								
		08 03	EN				49 14.326	123 50.265								
18	27	08 43	BE	ROS		22	49 19.085	123 47.984	350	344	83-98		MQ/RD	✓		
		08 51	BO				49 19.074	123 47.998								
		09 07	EN				49 19.068	123 47.981								
18	28	09 02	BE	CTD		23	49 24.094	123 45.386	136	130			MQ/RD	✓		Ship repositioning during descent, slowed to 0.6 m/s to 470m
		09 06	BO				49 24.095	123 45.422								
		09 09	EN				49 24.094	123 45.462								
18	24	11 35	BE	CTD		24	49 30.382	124 5.981	430							
		11 46	BO				49 30.523	124 6.037		425			10/05	✓		
		11 56	EN				49 30.569	124 5.988								

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							Latitude	Longitude							
18	25	1228	BE	CTD		25	49 27 733	124 7493	290		—	—	7/10/07	✓	
		1234	BO				49 27 756	124 7459		289		✓			
		1241	EN				49 27 786	124 7421							
18	2	1320	BE	ROS		26	49 24 073	124 9269	289		49-113	15	7/10/07	✓	
		1328	BO				49 24 085	124 9270		275					
		1347	EN				49 24 085	124 9241							
18	1	1419	BE	CTD		27	49 20 306	124 12029	247		—	—	7/10/07	✓	
		1425	BO				49 20 315	124 12031		245					
		1431	EN				49 20 323	124 12049							
18	4	1526	BE	CTD		28	49 24 469	124 22068	344				PC+SF	✓	no hex file
		1535	BO				49 24 451	124 22076		333					
		1542	EN				49 24 431	124 22061							
18	3	1608	BE	ROS		29	49 26 558	124 20321	326		114-129	16	PC+SF	✓	
		1617	BO				49 26 561	124 20167							
			EN												
18	3	1632	BE	ROS		29	49 26 568	124 20164	326		114-129	16	PC+SF	✓	
		1637	BO				49 26 568	124 20160							
		1655	EN				49 26 531	124 20651							

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- no previous .hex file in directory
- fire control not operating
- bring to surface and reboot system

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Month				Year			Ship			Cruise ID					
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							
18	5	17:50	BE	CTD		30	49 27.438	124 30.752	318				SF	✓	
		17:57	BO				49 27.472	124 30.635		314					
		18:05	EN				49 27.464	124 30.576							
18	6	18:33	BE	ROS		31	49 30.628	124 27.770	193		130-142		SF/PC		
		18:37	BO				49 30.629	124 27.764		185					
		18:50	EN				49 30.628	124 27.758							
18	7	19:27	BE	CTD		32	49 34.427	124 24.212	350	345			MO/RD	✓	
		19:33	BO				49 34.453	124 24.229							
		19:40	EN				49 34.436	124 24.235							
18	8	20:29	BE	CTD		33	49 39.391	124 33.064	337	330			MO/RD		jellyfish - many near sf
		20:35	BO				49 39.400	124 33.150							
		20:41	EN				49 39.436	124 33.198							
18	9	21:20	BE	ROS		34	49 35.476	124 38.249	167	162	143-154		MO/RD		
		21:24	BO				49 35.477	124 38.248							
		21:35	EN				49 35.484	124 38.266							
18	10	22:27	BE	CTD		35	49 40.692	124 47.221	91				MO/RD	✓	
		22:29	BO				49 40.703	124 47.243		93					
		22:31	EN				49 40.705	124 47.263							

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Month				Year				Ship				Cruise ID				
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								
18	11	2254	BE	CTD		36	49 42.413	124 43500	250		—	—	DR	✓		
		2300	BO				49 42 452	124 43480		298						
		2205	EN				49 42 493	124 43483								
18	12	2325	BE	ROS		37	49 43 576	124 40 781	357		155-176	16	DR	✓		
		2332	BO				49 43 604	124 40 832		350						
		2348	EN				49 43 654	124 40 934								
19	13	0116	BE	CTD		38	49 55 333	124 55 231	238				DR	✓		
		0121	BO				49 55 364	124 55 235		246						
		0126	EN				49 55 376	124 55 270								
19	14	0154	BE	ROS		39	49 52 972	124 59 550	317		171-186	16	DR	✓		
		0200	BO				49 52 978	124 59 527		312						
		0216	EN				49 53 048	124 59 502								
19	15	237	BE	CTD		40	49 51 607	125 1 576	134				DR			
		240	BO				49 51 612	125 1 555		127						
		243	EN				49 51 601	125 1 531								
19	16	0335	BE	ROS		41	49 57.702	125 8.879	155		187-197			✓		
		0339	BO				49 57.712	125 8.941		152						
		0348	EN				49 57.673	125 8.993								

This page is for any notes or observations

fine evening for sampling - light winds, scattered clouds

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Month				Year			Ship				Cruise ID				
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							
19	17	04:19	BE	CTD		42	49 59.823	125 4.328	267				S.F./P.C.	✓	
		04:24	BO				49 59.873	125 4.297		260					
		04:29	EN				49 58.922	125 4.289							
19	18	04 57	BE	CTD		43	49 59.197	124 58.967	147				R/SF	✓	
		05 01	BO				49 59.208	124 58.960	149	145					
		05 03	EN				49 59.222	124 58.946							
19	19	05 39	BE	CTD		44	50 1.241	124 52.904	273				R/SF	✓	
		05 43	BO				50 1.219	124 52.883	279	275					
		05 48	EN				50 1.249	124 52.865							
19	20	07 55	BE	CTD		45	49 47.224	124 32.336	316	310			MD/RD	✓	Cast 43m CTD 12m recovery 200.5 5-711
		08 02	BO				49 47.245	124 32.356							
		08 09	EN				49 47.250	124 32.369							
19	22	09 46	BE	CTD		46	49 40.331	124 16.324	359	351			MD/RD	✓	
		09 54	BO				49 40.267	124 16.331							
		10 02	EN				49 40.282	124 16.339							event 100.2 32m
19	22			008		47	SEE NOTE								
19	57	18 16	BE	CTD		48	48 43.958	123 8.183	164				R/SF	✓	
		18 20	BO				48 43.944	123 8.194		161					
		18 24	EN				48 43.898	123 8.200							

I turned off program before pumps turned off - re-accessed program,
Event # 47, turned off pump, stopped data. MQ Cleared MCH₂ dispenser - it was drying

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Month <u>June</u>			Year <u>2008</u>			Ship <u>VECTOR</u>			Cruise ID <u>2008-41</u>						
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							
19	62	2047	BE	ROS		49	48 22.795	123 2.652	146	141	198-208	11	MR/RO	✓	PAR-2000 -1000
		2052	BO				48 22.831	123 02.690							in debris field.
		2102	EN				48 22.837	123 02.750							
19	63	2206	BE	CTD		50	48 14.653	122 58.514	151	145			MR/RO	✓	
		2240	BO				48 14.674	122 58.522							
		2213	EN				48 14.719	122 58.501							
19	64	2254	BE	CTD		51	48 12.840	123 56.74	103				MR/RO	✓	
		2256	BO				48 12.846	123 56.60		100					
		2258	EN				48 12.856	123 56.54							
19	65	2332	BE	ROS		52	48 15.926	123 9.749	125		209-212	10	MR/PT	✓	
		2336	BO				48 15.926	123 9.722		122					
		2344	EN				48 15.910	123 9.522							
20	66	0023	BE	CTD		53	48 19.373	123 13.987	104				MR/PT	✓	
		0025	BO				48 19.416	123 13.949		96					
	1	0027	EN				48 19.460	123 13.900							
20	67	100	BE	CTD		54	48 22.780	123 18.038	106				MR/PT	✓	
		103	BO				48 22.775	123 17.989		106					
		105	EN				48 22.768	123 17.920							

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BOT = Bottle cast, no CTD
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ROS = Rosette plus CTD

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							Latitude	Longitude							
20	104	130	BE	CTD		55	48 20 020	123 17 950	83				PDT	✓	
		132	BO				48 20 032	123 17 939		81					
		134	EN				48 20 046	123 17 914							
20	A06P	216	BE	ROS		56	48 13 975	123 17 947	113		219-226	10	TM	✓	day sample 19 on computer
		218	BO				48 13 981	123 17 929		117					
		225	EN				48 13 994	123 17 856							
20	105	255	BE	CTD		57	48 11 039	123 18 978	80				TM	✓	
		256	BO				48 11 045	123 18 985		86					
		258	EN				48 11 058	123 18 977							
20	68	04 35	BE	CTD		58	48 12.258	123 43.048	140				P/SF	✓	
		04 37	BO				48 12.268	123 43 088		135					
		04 39	EN				48 12.274	123 43.123							
20	69	05 08	BE	ROS		59	48 15.641	123 43.319	178				P/SF	✓	
		05 12	BO				48 15.686	123 43.339		175					
		05 23	EN				48 15.749	123 43.552							
20	70	05 48	BE	CTD		60	48 19.256	123 42.267	149				P/SF	✓	
		05 50	BO				48 19.286	123 43.319		145					
		05 52	EN				48 19.298	123 43.358							

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Month <u>JUNE</u>				Year <u>2008</u>			Ship <u>VECTOR</u>				Cruise ID <u>2008-41</u>				
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							
20	71	0659	BE	CTD		61	48 22.200	123 59.423	109	106	241-253		MRD	✓	Fluorescence signal noisy at night near surface.
		0702	BO				48 22.201	123 59.476							
		0705	EN				48 22.206	123 59.518							
20	72	0741	BE	ROS		62	48 18.635	124 04.098	192	185			MRD	✓	
		0746	BO				48 18.696	124 04.168							
		0759	EN				48 18.806	124 04.294							
20	73	0832	BE	CTD		63	48 15.048	124 06.696	165	160			MRD	✓	
		0836	BO				48 15.095	124 06.685							
		0839	EN				48 15.136	124 06.710							
20	74	1046	BE	CTD		64	48 25.111	124 35.635	192	186			MRD	✓	
		1050	BO				48 25.141	124 35.657							
		1055	EN				48 25.079	124 35.696							
20	75	1125	BE	ROS		65	48 28.211	124 32.828	230		254-267	14	MRD	✓	
		1134	BO				48 28.224	124 32.840		221					
		1147	EN				48 28.213	124 32.893							
20	76	1217	BE	CTD		66	48 31.387	124 29.966	90				MRD	✓	
		1220	BO				48 31.376	124 29.948		86					
		1223	EN				48 31.350	124 29.945							

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

Notes:

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

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Month JUNE				Year 2008			Ship VECTOR				Cruise ID 2008-41				
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							
20	103	1323	BE	CTD		67	48 33 039	124 43 001	122				MOR	✓	
		1326	BO				48 33 058	124 43 014		116					
		1330	EN				48 33 122	124 43 043							
20	102	1358	BE	ROS		68	43 30 078	124 44 096	254		268-282	15	MOR	✓	
		1405	BO				43 30 096	124 44 231		250					
		1420	EN				43 30 224	124 44 484							
20	101	1511	BE	CTD		69	48 25 406	124 45 168	238				R/SE	✓	
		1516	BO				48 25 435	124 45 250		230					
		1522	EN				48 25 445	124 45 284							
21	54	00:53	BE	CTD		70	48 26 590	122 44 401	78	77			MOR	✓	
		00:55	BO				48 26 609	122 44 410							
		00:57	EN				48 26 632	122 44 419							
21	53	01:44	BE	CTD		71	48 33 218	122 44 999	60	56			OT/LB	✓	
		01:45	BO				48 33 253	122 45 013							
		01:46	EN				48 33 300	122 45 020							
21	52	02:18	BE	CTD		72	48 38 896	122 43 234	81	81			DT/LB	✓	
		2:20	BO				48 38 960	122 43 188							
		2:22	EN				48 39 005	122 43 170							

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