

DAILY LOG BOOK

MISSION
NUMBER

2004 - 17

DATE:

From: JUNE 10/04 to: JUNE 22/04

VESSEL:

W.E. RICKER

PROJECT:

HI SEAS SALMON - TRUDEL (MARC)

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

Captain: DAVE WENBLEY First Officer: JULIE GASCON
Second Officer: Z'BLE Third Officer: _____

Mission Participants / Agencies: PPS / 105

[illegible][illegible]

Data logging computer:

Data acquisition program: WINSAFE 32.exe
CTD deck unit make: SBK model: 11 serial number: 11818377-0471

Primary CTD

Make: 5Bf model: 911 serial number: 0550

Primary temperature serial number: 2668

Primary conductivity serial number: 2474

Secondary temperature serial number: 2374

Secondary conductivity serial number: 2399

Transmissometer: CHELSEA Model: SCATECH s/n: 197

Fluorometer: Model	SEAPOINT	Cable gain: 10x, 15%	s/n: 2228	P, S or NO pump?
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Oxygen sensor: _____ Model: _____ s/n: _____
P, S or NO pump? _____

Oxygen sensor: _____ Model: _____ s/n: _____

PAR sensor: _____ Model: _____ s/n: _____

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

Outlet sensors: _____ s/n: _____
 Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____
 Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Secondary secondary term: _____ s/n: _____
 Transmissometer: _____ Model: _____

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

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

Oxygen sensor: _____ Model: _____ s/n: _____

PAR sensor: _____ Model: _____ s/n: _____

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

Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____
 Other sensors: _____ s/n: _____

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):

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Month				Year			Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
13	1V1 01	1603	BE	CTD		001	48 50 17	125 09 76	75	65		1	H.M.	✓	T: 12.59 S: 30.42
		1605	BO				48 50 19	125 09 75							BOT@10m - SAL/MUTS/CHL
		1607	CH				48 50 22	125 09 76							
		1611	BE	NET		002	48 50 26	125 09 84		64					BONGO
		1639	BE	TRAWL		003	48 50 22.9	125 09 107	99						TRAWL
13	1V1 02	1725	BE	NET		004	48 52 39	125 06 55	135	125					BONGO
		1739	BE	CTD		005	48 52 42	125 06 47	130			1			T: 14.25 S: 27.31
		1742	BO				48 52 44	125 06 43		120					BOT@10m - SAL/CHL/MUTS
		1745	CH				48 52 44	125 06 39							
		1745	BE	TRAWL		006	48 52 48.4	125 05 40.9	139						TRAWL
13	1V1 03	1946	BE	CTD		007	48 58 35	125 07 97	89			1			T: 13.64 S: 29.03
		1947	BO				48 58 34	125 07 97		80					BOT@10m - SAL/MUTS/CHL
		1950	CH				48 58 34	125 07 97							
		1956	BE	NET		008	48 58 35	125 07 96							BONGO
		2000	BE	TRAWL		009	48 58 43.6	125 08 44.1	92						TRAWL

Cast type:

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

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up / stop
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
13	VI 04	2109	BE	CTD		010	48 54 92	125 12 26	97			1			T: 14.20 S: 29.73
		2112	BO				48 54 92	125 12 25		85					BOT@10m - SAL/CHL/NUTS
		2114	EN				48 54 91	125 12 27							
		2127	BE	NET		011	48 54 86	125 12 13		84					BONGO
		2149	BE	TRAWL		012	48 54 389	125 13 120	93						TRAWL
13	VI 05	2233	BE	CTD		013	48 51 19	125 15 29	93			1			T: 12.97 S: 31.06
		2235	BO				48 51 18	125 15 28		85					BOT@10m - SAL/CHL/NUTS
		2238	EN				48 51 18	125 15 24							
		2242	BE	NET		014	48 51 18	125 15 25							BONGO
		2303	BE	TRAWL		015	48 50 469	125 15 325	101						TRAWL
14	VI 01	0038	BE	CTD		016	48 47 84	125 23 66	95			1			T: 11.37 S: 31.65
		0040	BO				48 47 84	125 23 65		90					BOT@10m - SAL/CHL/NET
		0042	EN				48 47 84	125 23 66							
		0045	BE	NET		017	48 47 85	125 23 69		81					BONGO
		0107	BE	TRAWL		018	48 47 650	125 24 990	91						TRAWL

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned		
							Latitude	Longitude								
14	VI 02	0228	BE	CTD		019	48 42 51	125 34 45	77			1		T: 12.05 S: 31.74		
		0229	BO				48 42 53	125 34 45		70				NOTE 10m - SAL/CHL/NUTS		
		0232	CH				48 42 53	125 34 44								
		0237	BE	NET		020	48 42 51	125 34 43		65						

14	EP 01	1458	BE	CTD		021	49 20 39	126 33 29	51			1	H.M.	✓ T: 11.59 S: 31.32		
		1500	BO	.			49 20 40	126 33 33		45				NOTE 10m - SAL/CHL/NUTS		
		1501	CH				49 20 41	126 33 35								
		1506	BE	NET		022	49 20 43	126 33 36		39				BONGO		
		1525	BE	TRAWL		023	49 20 43	126 34 206	50					TRAWL		

14	EP 02	1621	BE	CTD		024	49 19 03	126 36 47	85/82			1		T: 11.72 S: 31.67		
		1623	BO				49 19 05	126 36 56		75				NOTE 10m - SAL/CHL/NUTS		
		1625	CH				49 19 07	126 36 61								
		1629	BE	NET		025	49 19 12	126 36 68		72				BONGO		
		1649	BE	TRAWL		026	49 19 220	126 37 913	88					TRAWL		

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							Latitude	Longitude							
14	EP 03	1755	BE	CTD		027	49 16 79	126 40 97	109			1			T: 11.88 S: 31.55
		1757	BO				49 16 81	126 40 97		100					BOT 10m - SAL/CHL/NUTS
		1759	EN				49 16 82	126 40 98							
		1803	BE	NET		028	49 16 84	126 4 96		99					BONGO
		1824	BE	TRAWL		029	49 16 966	126 39 896	102						TRAWL
14	EP 04	1959	BE	CTD		030	49 14 60	126 45 31	123			1			T: 12.05 S: 31.56
		2002	BO				49 14 61	126 45 31		115					BOT 10m - SAL/CHL/NUTS
		2005	EN				49 14 62	126 45 31							
		2009	BE	NET		031	49 14 63	126 45 30		108					BONGO
	2033?	1933	BE	TRAWL		032	49 14 45	126 44 71	113						TRAWL
14	EP 05	2158	BE	CTD		033	49 12 37	126 49 95	149			1			T: 12.02 S: 31.92
		2201	BO				49 12 37	126 49 97		140					BOT 10m - SAL/CHL/NUTS
		2205	EN				49 12 38	126 49 97							
		2209	BE	NET		034	49 12 38	126 49 99		132					BONGO
		2233	BE	TRAWL		035	49 11 822	126 51 121	144						TRAWL

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							Latitude	Longitude							
14	EP 06	2337	BE	CTD		036	49 10 15	126 54 39	185			1			T: 11.99 S: 32.05
		2341	BO				49 10 14	126 54 42		175					BOT 10m - SAL/CAL/NUTS
		2345	EN				49 10 14	126 54 43							
		2350	BE	NET		037	49 10 14	126 54 42		150					BONGO
		0040	BE	TRAWL		038	49 10 18.4	126 54 35.1	232						TRAWL
15	EP 07	0147	BE	CTD		039	49 07 96	126 59 15	478			1			T: 12.41 S: 32.04
		0151	BO				49 07 96	126 59 14		200					BOT 10m - SAL/CAL/NUTS
		0155	EN				49 07 96	126 59 12							
		0200	BE	NET		040	49 07 96	126 59 11		150					BONGO
15	IVI 06	1359	BE	CTD		041	50 31 37	127 40 28	128			1	N.M.	✓	T: 10.27 S: 31.15
		1402	BO				50 31 35	127 40 27		120					BOT 10m - SAL/CAL/NUTS
		1404	EN				50 31 34	127 40 26							
		1409	BE	NET		042	50 31 33	127 40 26		115					BONGO
		1420	BE	TRAWL		043	50 30 8.2	127 41 34.9	148						TRAWL

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							Latitude	Longitude							
15	1V1 07	1506	BC	CTD		044	50 30 27	127 43 32	66			1			T: 11.45 S: 30.67
		1508	BO				50 30 27	127 43 32		60					BOT@ 10m - SAL/CAL/MUTS
		1510	EN				50 30 28	127 43 32							
		1515	BE	NET		045	50 30 30	127 43 32	60	50					BONGO
		1533	BE	TRAWL		046	50 29 44.1	127 44 76.2	115						TRAWL
15	1V1 08	1630	BC	CTD		047	50 28 74	127 47 40	142						T: 11.46 S: 30.44
		1633	BO				50 28 75	127 47 87		130					BOT@ 10m - SAL/CAL/MUTS
		1636	EN				50 28 75	127 47 86							
		1640	BE	NET		048	50 28 74	127 47 88		128					BONGO
			BE	TRAWL		049	50 28 60.9	127 48 88.3		117					TRAWL
15	1V1 09	1747	BE	CTD		050	50 28 32	127 54 01	202			1			T: 11.35 S: 30.84
		1751	BO				50 28 32	127 54 02		190					BOT@ 10m - SAL/CAL/MUTS
		1756	EN				50 28 32	127 54 03							
		1801	BE	NET		051	50 28 32	127 54 03		150					BONGO
		1824	BE	TRAWL		052	50 28 32.9	127 55 12.8	192						TRAWL

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							Latitude	Longitude							
15	VI 10	1922	BE	CTD		053	50 25 00	128 00 13	173			1			T: 11.65 S: 31.46
		1925	BO				50 25 00	128 00 13		165					BOT 10m - SAL/CHL/HUTS
		1929	EN				50 24 99	128 00 10							
		1933	BE	NET		054	50 24 99	128 00 09							BONGO
		1955	BE	TRAWL		055	50 24 682	128 01 037	144						TRAWL
15	VI 03	2101	BE	CTD		056	50 23 44	128 09 67	113			1			T: 13.10 S: 31.77
		2103	BO				50 23 43	128 09 67		100					BOT 10m - SAL/CHL/HUTS
		2106	EN				50 23 43	128 09 67							
		2110	BE	NET		057	50 23 43	128 09 67	99						BONGO
		2128	BE	TRAWL		058	50 23 472	128 10 604	122						TRAWL
15	VI 04	2221	BE	CTD		059	50 23 34	128 16 18	170			1			T: 13.01 S: 31.76
		2224	BO				50 23 33	128 16 18		160					BOT 10m - SAL/CHL/HUTS
		2227	EN				50 23 34	128 16 18							
		2231	BE	NET		060	50 23 35	128 16 19		150					BONGO
		2252	BE	TRAWL		061	50 23 300	128 17 335		175					TRAWL

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							Latitude	Longitude							
15	V1 05	2338	BE	CTD		062	50 23 26	128 22 45	194			1			T: 12.14 S: 31.78
		2342	BO				50 23 23	128 22 46		185					BOT 10m - SAL/CAL/NUIS
		2346	EN				50 23 21	128 22 48							
		00 24	BE	NET		063	50 23 23	128 22 45							BONGO
		00 45	BE	TRAWL		064	50 23 26	128 23 619	201						TRAWL
16	T 7	1332	BE	CTD		065	50 49 26	129 13 08	90			1	11 m	✓	T: 11.75 S: 31.60
		1334	BO				50 49 29	129 13 17		80					
		1337	EN				50 49 32	129 13 25							BOT 10m - SAL/CAL/NUIS
		1358	BE	NET		066	50 49 35	129 13 09		78					BONGO
		14 19	BE	TRAWL		067	50 50 319	129 14 212		89					TRAWL
16	T 6	1553	BE	CTD		068	50 56 09	129 00 00	59			1			T: 11.20 S: 31.07
		1555	BO				50 56 11	129 00 01		50					BOT 10m - SAL/CAL/NUIS
		1556	EN				50 56 13	129 00 01							
		1601	BE	NET		069	50 56 19	129 00 03		48					BONGO
		1619	BE	TRAWL		070	50 56 855	128 59 120		63					TRAWL

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							Latitude	Longitude							
16	T 5	17 13	BE	CTD		071	51 00 04	128 52 05	61			1			T: 11.28 S: 31.16
		17 15	BO				51 00 06	128 52 02		50					BOT@10m - SAL/CHL/NUTS
		17 16	EN				51 00 08	128 51 96							
		17 20	BE	NET		072	51 00 11	128 51 89		48					BONGO
		17 38	BE	TRAWL		073	51 00 47	128 50 72		58					TRAWL
16	T 4	19 03	BE	CTD		074	51 04 48	128 43 94	62			1			T: 11.99 S: 30.69
		19 05	BO				51 04 48	128 43 96		50					BOT@10m - SAL/CHL/NUTS
		19 06	EN				51 04 47	128 43 98							BONGO
		19 12	BE	NET		075	51 04 47	128 43 98		50					TRAWL
		19 31	BE	TRAWL		076	51 04 72	128 43 15		62					
16	T 3	20 35	BE	CTD		077	51 08 44	128 35 96	142			1			T: 11.46 S: 31.02
		20 38	BO				51 08 43	128 35 98		130					BOT@10m - SAL/CHL/NUTS
		20 41	EN				51 08 43	128 35 98							
		20 47	BE	NET		078	51 08 46	128 35 91		127					BONGO
		21 07	BE	TRAWL		079	51 08 36	128 34 96		142					TRAWL

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							Latitude	Longitude							
16	T2	2221	BE	CTD		080	51 12 41	128 28 02	193			1			T: 11.92 S: 30.91
		2224	BO				51 12 40	128 28 04		180					Bottom - SAL/CHL/NUTS
		2228	EN				51 12 40	128 28 05							
		2233	BE	NET		081	51 12 40	128 28 06		150					BONGO
		2254	BE	TRAWL		082	51 12 69	128 27 34							TRAWL
17	T1	0033	BE	CTD		083	51 16 48	128 19 99	76			1			T: 11.65 S: 30.85
		0035	BO				51 16 48	128 20 02		65					Bottom - SAL/CHL/NUTS
		0036	EN				51 16 48	128 20 05							
		0040	BE	NET		084	51 16 48	128 20 12		64					BONGO
		0059	BE	TRAWL		085	51 16 40	128 20 40							TRAWL
17	H 1	1404	BE	CTD		086	52 12 31	129 10 59	158			1	H.M.	✓	T: 11.90 S: 31.45
		1407	BO				52 12 30	129 10 62		150					Bottom - SAL/CHL/NUTS
		1411	EN				52 12 29	129 10 64							
		1417	BE	NET		087	52 12 30	129 10 72		144					BONGO
		1441	BE	TRAWL		088	52 12 50	129 11 87							TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
17	H-2	1606	BE	CTD		089	52 15 60	129 26 28	181			1			T: 11.32 S: 31.41
		1610	BO				52 15 59	129 26 26		170					BOTOM - SAL/CHL/NUTS
		1615	EN				52 15 58	129 26 23							
		1619	BE	NET		090	52 15 57	129 26 19		150					BONGO
		1644	BE	TRAWL		091	52 15 76	129 27 30							TRAWL
17	H-3	1810	BE	CTD		092	52 18 96	129 41 89	214			1			T: 12.02 S: 31.52
		1815	BO				52 18 97	129 41 92		200					BOTOM - SAL/CHL/NUTS
		1820	EN				52 18 99	129 41 95							
		1911	BE	NET		093	52 18 92	129 41 78		150					BONGO
		1922	BE	TRAWL		094	52 18 05	128 42 62							TRAWL
17	H-4	2055	BE	CTD		095	52 22 22	129 57 40	199			1			T: 12.34 S: 31.55
		2059	BO				52 22 22	129 57 38		190					BOTOM - SAL/CHL/NUTS
		2103	EN				52 22 22	129 57 40							
		2106	BE	NET		096	52 22 22	129 57 41		150					BONGO
		2127	BE	TRAWL		097	52 22 41	129 57 66							TRAWL

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							Latitude	Longitude							
17	H-5	2256	BE	CTD		098	52 25 60	130 13 24	317			1			T: 12.33 S: 31.50
		2301	BO				52 25 60	130 13 29		200					Bottom - SAL/CHL/NUTS
		2305	EN				52 25 58	130 13 31							
		2309	BE	NET		099	52 25 64	130 13 43		150					BONGO
		2332	BE	TRAWL		100	52 26 29	130 14 18							TRAWL
 															
18	DE 01	1406	BE	CTD		101	54 15 37	131 39 35	115			1	H.M.	✓	T: 11.54 S: 31.26
		1409	BO				54 15 36	131 39 37		105					Bottom - SAL/CHL/NUTS
		1412	EN				54 15 35	131 39 37							
		1416	BE	NET		102	54 15 33	131 39 37		100					BONGO
		1437	BE	TRAWL		103	54 14 73	131 40 18							TRAWL
 															
18	DE 02	1617	BE	CTD		104	54 08 64	131 57 75	46			1			T: 10.74 S: 31.47
		1618	BO				54 08 64	131 57 77		40					Bottom - SAL/CHL/NUTS
		1619	EN				54 08 63	131 57 78							
		1625	BE	NET		105	54 08 66	131 57 84		35					BONGO
		1643	BE	TRAWL		106	54 08 92	131 59 22							TRAWL
 															
 															

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							Latitude	Longitude							
18	DE 03	1802	BE	CTD		107	54 08 34	132 11 68	43			1			T: 11.54 S: 31.17
		1803	BO				54 08 34	132 11 70		35					BOTOM - SAL/CHL/MUTS
		1804	EN				54 08 34	132 11 71							
		1809	BE	NET		108	54 08 33	132 11 72		32					BONGO
		1826	BE	TRAWL		109	54 08 28	132 12 93							TRAWL
18	DE 04	1951	BE	CTD		110	54 07 87	132 28 02	51			1			T: 11.40 S: 31.23
		1952	BO				54 07 86	132 28 04		45					BOTOM - SAL/CHL/MUTS
		1953	EN				54 07 85	132 28 05							
		2000	BE	NET		111	54 07 85	132 28 10		40					BONGO
		2016	BE	TRAWL		112	54 07 72	132 29 36							TRAWL
18	DE 05	2144	BE	CTD		113	54 10 83	132 45 68	66						
		2146	BO				54 10 84	132 45 68		60		1			T: 12.81 S: 30.86
		2147	EN				54 10 85	132 45 67							BOTOM - SAL/CHL/MUTS
		2151	BE	NET		114	54 10 88	132 45 67		57					
		2207	BE	TRAWL		115	54 10 93	132 47 29							BONGO
															TRAWL

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							Latitude	Longitude							
18	DE 6	2309	BG	CTD		116	54 14 49	132 55 58	140			1			T: 11.21 S: 31.33
		2312	BO				54 14 53	132 55 62		130					BOTTOM - SAL/COL/NUIS
		2315	EN				54 14 55	132 55 65							
		2318	BG	NET		117	54 14 57	132 55 70		114					BONGO
		2331	BG	TRAWL		118	54 15 50	132 57 20							TRAWL
19	F17	1403	BG	CTD		119	54 42 88	133 50 29	226			1			T: 11.62 S: 31.40
		1407	BO				54 42 89	133 50 28		200					
		1412	EN				54 42 90	133 50 31							BOTTOM - SAL/COL/NUIS
		1417	BG	NET		120	54 42 95	133 50 33		150					BONGO
		1442	BG	TRAWL		121	54 43 16	133 49 34							TRAWL
19	F16	1532	BG	CTD		122	54 43 61	133 42 46	220			1			T: 12.40 S: 31.56
		1536	BO				54 43 62	133 42 46		200					BOTTOM - SAL/COL/NUIS
		1541	EN				54 43 64	133 42 45							
		1546	BG	NET		123	54 43 66	133 42 45		150					BONGO
		1610	BG	TRAWL		124	54 43 85	133 40 18							TRAWL

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							Latitude	Longitude							
19	F1 5	1750	BG	CTD		125	54 44 34	133 34 60	195			1			T: 11.31 S: 31.43
		1754	BO				54 44 28	133 34 54		195					BOTIDON - SAL/CAL/NUTS
		1759	EN				54 44 24	133 34 54							
		1803	BG	NET		126	54 44 20	133 34 52		150					BONGO
		1827	BE	TRAWL		127	54 43 75	133 33 56							TRAWL
19	F1 4	1925	BG	CTD		128	54 45 09	133 26 59	145			1			T: 11.21 S: 30.93
		1927	BO				54 45 10	133 26 57		135					BOTIDON - SAL/CAL/NUTS
		1930	EN				54 45 12	133 26 55							
		1934	BG	NET		129	54 45 14	133 26 53		130					BONGO
		1955	BE	TRAWL		130	54 45 34	133 25 71							TRAWL
19	F1 3	2045	BG	CTD		131	54 45 80	133 18 84	113			1			T: 11.96 S: 30.67
		2047	BO				54 45 79	133 18 84		100					BOTIDON - SAL/CAL/NUTS
		2050	EN				54 45 79	133 18 84		100					
		2054	BG	NET		132	54 45 78	133 18 83							BONGO
		2113	BE	TRAWL		133	54 45 72	133 17 44							TRAWL

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							Latitude	Longitude								
19	F1 2	2201	BE	CTD		134	54 46 49	133 10 98	200			1			T: 12.27 S: 31.00	
		2205	BO				54 46 46	133 10 85		190					BONGO. SAL/CNL/NUTS	
		2209	EN				54 46 46	133 10 78								
		2212	BE	NET		135	54 46 47	133 10 71							BONGO	
		2233	BE	TRAWL		136	54 46 51	133 09 14							TRAWL	
19	F1 1	2322	BE	CTD		137	54 47 33	133 03 26	120			1			T: 12.71 S: 30.65	
		2325	BO				54 47 32	133 03 28		110					BONGO. SAL/CNL/NUTS	
		2327	EN				54 47 31	133 03 28								
		2331	BE	NET		138	54 47 29	133 03 25		105					BONGO	
		2350	BE	TRAWL		139	54 46 93	133 02 13							TRAWL	

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