

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Robin Menzies

Date: Jan 27, 2014

Consecutive Stn #: 1

Station Name: S3A

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Calm seas, extremely foggy.

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
1	CTD	10:03	N 48° 35.59	W 123° 30.06	229m	215m	2014-01-27-S3A.hex
2	NISK	10:46	N 48° 35.535	W 123° 30.017	229m	200m	0, 10, 25, 50, 75, 100, 150, 200m
3	ZOOP 1	11:12am	N 48° 35.530	W 123° 30.000	229m	100m	100-50m flow meter 20192 -20403
4	ZOOP 2	11:27am	N 48° 35.532	W 123° 30.030	229m	50m	50-0m flow m. 20403 -20659

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Math Hopkins

Date: Jan. 27, 2014

Consecutive Stn #: 2

Station Name: 54a

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Calm seas, fog lifted

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
5	Zoopl	12:00	48°38.309' N	W 123°29.982'	201m	100m	20659 - Flow meter start 21925 - Flow meter finish 100-50m - some bag sample left. up at 1 m/s
6	Zoopl	12:16	N 48°38.319'	W 123°29.950'	201m	50m	21925 - Flow meter start 21185 - Flow meter finish 50-0m up at 1 m/s
7	NISK	12:49	N 48°38.309'	W 123°29.957'	201m	175m	On 10m 25m 50m 75m 100m 150m 175m
8	CTD	1:02	N 48°38.309'	W 123°29.957'	201m	190m	2014-01-27 th , 54a brought up w 40m/min

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Lauren M. Vivian,
Michelle, Maryann

Date: JAN 27, 2014

Consecutive Stn #: 3

Station Name: S4.5a

Notes: (temperature, wind, barometer, weather, sea-state, etc)

LOW wind, cloudy, calm

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
9	CTD	1:30-1:44	N48°39.641'	W123°29.937'	172m	160m	20140127-S45a_hex,
10	NISK	1:45-2:02	N48°39.679	W123°29.864	172m	125m	0,10,25,50,75,100,125m
11	Zoop1	2:20-2:31pm	N48°39.720	W123°29.908	172m	100m	100-52m Speed 1m/s start-2118F Flow Meter Finish 211445
12	Zoop2	2:40-	N48°39.712	W123°29.862	172m	50m	50-0m Speed 1m/s Flow Start 21445 Meter Finish 21720

depths 0 10 25 50 75 100 125
Dist 175 115, 160 75 50 25 0,

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Patrick Schroeder

Date: 1 Feb Jan 28, 2014

Consecutive Stn #: 4

Station Name: S6a

Notes: (temperature, wind, barometer, weather, sea-state, etc)

light wind, cloudy, calm seas

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
13	CTD	9:20	N 48° 45.237	W 123° 18.411	144	135	20140128_S6a.hex
14	Nisk	9:35	N 48° 45.237	W 123° 18.411	144	125	XXXXXXX 0, 40, 25, 50, 75, 100, 125
15	Zoop 1	10:08	N 48° 45.221	W 123° 18.516	142	100	Flow start - 21720 100 - 55m up at 1m/s Flow Finish - 21995
16	Zoop 2	10:30	N 48° 45.256	W 123° 18.527	142	50	Flow start - 21995 50 - 0m up at 1m/s Flow Finish - 22289

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Emma Foreman

Date: Jan 28 / 14

Consecutive Stn #: 5

Station Name: 58a

Notes: (temperature, wind, barometer, weather, sea-state, etc)
~~Did the zooplankton nets first~~ 30.26 barometer
8°C, 7.3° water temp, calm sea no wind

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
19	CTD	11:30	N48°44.537	W123°23.578	90m	85m	20140128_58a.hex
20	NISK	11:49	N48°44.526	W123°23.579	87m	75m	210, 25, 50m, 75m X X X X X
17	Zoop1	11:01	N48°44.549	W123°23.549	90m	85m	flow start 22289 1m/s raise 85-50m flow finish 22510
18	Zoop2	11:17	N48°44.529	W123°23.604	90m	50m	flow start 22510 50m-0m flow finish 22778

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Michael Brinton

Date: 04/28/14

Consecutive Stn #: 6

Station Name: S5a

Notes: (temperature, wind, barometer, weather, sea-state, etc)
 air temp 9°C Wind: Calm Weather: Overcast (100%) Sea: Calm
 water temp 6.8°C visibility: 12 mi barometer 30.25

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
21	CTD	12:27	N 48° 43.020'	W 123° 27.505'	118	110	20140128-S5a.hex
22	NISK	12:43	N 48° 42.974'	W 123° 27.636'	117	100	0, 10, 25, 50, 75, 100 m ✓ ✓ ✓ ✓ ✓ ✓
23	ZOOP1	13:00	N 48° 42.941'	W 123° 27.632'	112	100	100-50m *Closed at 47m Flow start 22778 Flow finish 23056
24	ZOOP2	13:17	N 48° 42.973'	W 123° 27.540'	120	50	50-0m Flow start 23056 Flow finish 23321

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Carl Jonsson

Date: 29 Jan 2014

Consecutive Stn #: 7

Station Name: S10a

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Overcast, drizzly, sea calm, 29.53 Hg, 7.2 °C sea temp
wind from N @ 5 knots, ^{waves} visibility 5-7 miles, cloud cover 100%

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
25	CTD	10:20 AM	48°51.274' N	123°35.189' W	195 194 197	180 190	~15° lean on wire
26	NISK	10:35 AM	48°51.363' N	123°35.218' W	196	150	6, 10, 25, 50, 75, 100, 125, 150 m depths. Bottles: #8, #7, #6, #5, #4, #3, #2, #1
27	ZOOP NET	11:00 11:14 AM	48°51.351' N	123°35.212' W	195	100 - 52	100-50m depth Flow meter start: 23320 end: 23607
28	ZOOP NET	11:30 AM	48°51.377' N	123°35.146' W	198	50 - 0	50-0m depth Flow meter start: 23687 23958 end: 25965 24952
							Note - final flow meter reading wrong label 5 Need correcting

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Gavin Tilley

Date: 29 Jan 2014

Consecutive Stn #: 8

Station Name: S9a

Notes: (temperature, wind, barometer, weather, sea-state, etc)

*flow meter readings in event 31 jars incorrect. See notes instead.

29.74 inHg, 9.5°C air, 7.3°C water, N 12 knots wind, 100% cloud cover, 12 miles visibility.

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
29	WISK	12:03 - 12:17 pm	48°47.967'N 48°47.915'N	123°33.228'W 123°33.159'W		150	Depths: 0, 10, 25, 50, 75, 100, 125m, 150m
30	CTD	12:35 pm	48°48.038'N	123°33.295'W	174	170	
31	NET	12:46 pm	48°48.030'N	123°33.227'W		100-53	Flow meter: Start: 23958 23958 end: 24270 24270
32	NET	1:03 pm	48°47.995'N	123°33.165'W		50-0	Flow meter: start: 24270 24270 end: 24548

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Alayne Hamilton

Date: 29 Jan 2014

Consecutive Stn #: 9

Station Name: Slla

Notes: (temperature, wind, barometer, weather, sea-state, etc)

8.5°C Net 10m 29.71

1ft. swell 7.5°C water T

visibility 15mi 50% cloud cover.

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
33	NET1	1:38 pm	48°43.978'	123°32.777'	143m	100-50m	Start: 24548 flow meter end: 24820
34	NET2	1:58	48°44.000	123°32.800	143m	0-50m	start: 24820 flow meter end: 25088
35	MISK	2:07	48°44.012'	123°32.796'	144m - 140m		* * * * * 0, 10, 25, 50, 75, 100 m
36	CTD	2:27	48°44.052'	123°32.836'	146m	140m	20140129-Slla.

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Maria Morrison

Date: 30 Jan 2014

Consecutive Stn #: 10

Station Name: Scob

Notes: (temperature, wind, barometer, weather, sea-state, etc) Cloud cover: 100%
 8°C (temp) water temp: 7.3
 barometer reading: 29 calm sea visibility 12nm

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
37	CTD	9:12	48 45.274	123 18.511	143m	133m	129.16 temp 8°C water
38	NISK	9:33	45 45 165	123 18 375			bottle depth: 10m sample → not sealed 0, 10, 25, 50, 75, 100, 125 (25 115 100 75 50 25 0 out) 23.12
39	NET1	10:03	48 45 278	123 18 554	144m	100-52m	flow meter reading 1: 25085 down 100m (cast depth) flow m reading 2: 25445
40	NET2	10:11	48 45 265	123 18 515	143m	50-0m	start: 25445 flow m end. reading: 25738

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Joe Chubb

Date: Jan, 30/14

Consecutive Stn #: 11

Station Name: 58B

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Calm, light breeze, overcast

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
41	Zoop Net1	10:45	48°44.561 N	123°23.569 W	90m 95	49m 90m	25739 90-49m 25980 - some spillover during bagging
42	11 Net2	11:05	48°44.531 N 123.23634 W		95m	50m	25980 50-surface 26239 - some bag sample lost
43	Nisk	11:30	48°44.555 N	123.23.600 W	86m		75m, 50, 25, 10, 0
44	CTD	11:45	48°44.543 N	123°23.629	87m	80m	80m

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Amanda Hewlett

Date: 30 Jan 2014

Consecutive Stn #: 12

Station Name: S5b

Notes: (temperature, wind, barometer, weather, sea-state, etc)
Calm waters, Clear, No Wind (light breeze).

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
45	CTD	12:18	48°44.513' 48°42.927'	123°23.627' 123°27.645'	100m 120m	105m	20140130-S5b
46	NISK	12:35	48°44.513' 48°42.927'	123°23.627' 123°27.645'	122m	100m	0m, 10m, 25m, 50m, 75m, 100m
47	Net 1	12:53	48°42.950'	123°27.610'	124m	100m -48m	Flow Meter: 26238 End Flow Meter: 26545 small amount of spilling when transferring sample into bag.
48	Net2	1806	48°42.986'	123°27.562'	115m	50m-0m	Flow Meter: (start) 26545 End Flow Meter: 26859

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: _____

Date: 31 Jan 2014

Consecutive Stn #: 13

Station Name: S106

Notes: (temperature, wind, barometer, weather, sea-state, etc)

calm, slightly cloudy/sunny

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
49	CTD	10:20:27 AM	48° 51.275'	123° 35.167'	195	185	
50	Wisk	10:51:01 10:34:29	48° 51.293'	123° 35.128'	195	150	0, 10, 25, 50, 75, 100, 125, 150 (8) (7) (6) (5) (4) (3) (2) (1) bottle 3 partly off wire.
51	Z601	11:15:00	48° 51.291	123° 35.142	195	100- 49	26880 - 27145
52	Z602	11:29:00	48° 51.277	123° 35.101	195	50-0	27438 - 27145 - 27438 labelled incorrectly as station 13 in samples.

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Date: 31 Jan 2014

Collected By: Meaghan Thordkelson
Rachelle Sarrazin
Jenn Martin

Consecutive Stn #: 14

Station Name: S96

Notes: (temperature, wind, barometer, weather, sea-state, etc)

- Slight wind
- quiet sea conditions

	EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
RS	53	ZOO1	12:05pm	48°48.021	123°33.200	171m	100 to 98m	27437 - start flow reading 27742 - end flow reading
JM	54	ZOO1	12:12pm	48°48.016	123°33.159	171m	50m to 0m	27742 - start flow reading (lost 1/4 sample whirlpack) 28085 - end flow reading
MT	55	Nisk	12:44	48°48.000	123°33.134	171m	150m to 0m	0, 10, 25, 50, 75, 100, 125, 150 (3) (7) (6) (5) (4) (3) (2) (1) ↳ 6 not sealed
MT	56	CTD	12:59	48°48.000	123°33.134	170m	160m to 0m	a little less than 160m because of the angle of the wire.

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Meaghan Thorselson

Date: Jan 31 / 14

Consecutive Stn #: 15

Station Name: S11B

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Sunny, calm. Bar: 30.17 merc. 9°C sea temp 7.3°C
calm winds - 18 miles visibility 70% cloud cover.

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
MT 57	CTD	1:40 PM	48°44.070'	123°32.791	143m	135m to 0m	20140131-S11B → short - stopped recording @ 20m.
MT 58	Nisk	2:03 PM	48°44.068	123°32.720	142m later (137m)	125m to 0m	(1) (2) (3) (4) (5) (6) (7) 125m, 100m, 75m, 50m, 25m, 10m, 0m (150m not included due to depth)
MT 59	Net 1	2:23 PM	48°44.017	123°32.860	149m	100m to 5m	Flow meter start: 28082 Flow meter end: 28408
60	Net 2		"	"		50m to 0m	Flow meter start: 28408 end: 28758
61	CTD	1449	48°44.037	123°32.845	148	135m	re-cast due to water fault (re-seated 1/6 cable). 20140131-S11B-2, hex.

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: CHELSEA REIMER

Date: Feb 1, 2014

Consecutive Stn #: 16

Station Name: 53b

Notes: (temperature, wind, barometer, weather, sea-state, etc)

WIND: CALM WEATHER: O/CAST SEA: CALM

* JOHN'S MISTAKE CTD RESULTS NOT USEFUL *

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
62	CTD	9:45	N 48° 35.514'	W 123° 30.026'	228	223-Ø	CTD FILE 20140201_53b.hex (see above)
63	NISKIN	9:54	N 48° 35.514'	W 123° 30.026'	228	RANGE: 200-Ø	X X X 0 10 25 50 75 100 X X 125 150 200
64	200P. NET ①	10:28	N 48° 35.525'	W 123° 29.990'	228	100 -54	100 - 50 M DEPTH FLOW METER START: 28761 END: 29038
65	200P. NET ②	10:41	N 48° 35.525'	W 123° 29.990'	228	50 -Ø	50 M - Ø M DEPTH FLOW METER START: 29038 END: 29338

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: JESSEE BRAKE

Date: FEB 1, 2014

Consecutive Stn #: 17

Station Name: S4b

Notes: (temperature, wind, barometer, weather, sea-state, etc)
 67: Done twice b/c of inaccurate sample (sample spilled)
 68: Surface bottle done after CTD b/c of miss fire.
 (Freakin' odd, no wind, overcast, calm sea)

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)															
66	NET ①	11:06am	N48° 38.247	W 123° 30.011	200 m	100m	100-50m Flow start: 29338 Flow End: 29611															
67	NET ②	11:19am	N48° 38.247	W123° 30.011	200m	50m	50-0m Flow start: 29611 Flow End: 29910 *spilled sample*															
68	NISKIN	11:40am	N48° 38.304	W123° 30.013	199m	175m	<table><tr><td>0</td><td>10</td><td>25</td><td>50</td><td>75</td></tr><tr><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td></tr><tr><td>100</td><td>125</td><td>150</td><td>175</td><td>-</td></tr></table>	0	10	25	50	75	x	x	x	x	x	100	125	150	175	-
0	10	25	50	75																		
x	x	x	x	x																		
100	125	150	175	-																		
69	CTD	11:56am	38.322 N48° 38.16	W123° 30.024	200m 195 m	195 m 195m	CTD File Name 20140201_Sb4.hex															
70	NET 2	12:09pm	N48° 38.322	W123° 30.024	199m 195	50m	50-0m Flow start: 29910 Flow end: 30192															

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: JESSEE BRAKE

Date: Feb 1, 2014

Consecutive Stn #: 18

Station Name: 545b

Notes: (temperature, wind, barometer, weather, sea-state, etc)

(still cold... can't feel fingers, no wind, overcast, calm sea)

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
71	NISKIN BOTTLE	12:40 PM	N 48° 39.594	W 123° 29.905	171m	150m	XXXXXX 010255075100 XX 125150
72	CTD	12:55 PM	N 48° 39.663	W 123° 29.984	173m	165m	
73	NET ①	12:58	" "	" "	173	100-50	Flow Start 30192 Flow End 30465
74	NET ②		" "	" "	173	50-0	Flow Start 30465 Flow End 30795

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: _____

Date: 2 Feb 2014

Consecutive Stn #: 19

Station Name: 54.5c

Notes: (temperature, wind, barometer, weather, sea-state, etc)

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
75	CTD	9:14	N 48°39.704'	W 123°29.965'	172	160	
76	WISK	9:45	N 48°39.691'	W 123°29.944'	172	100	0, 10, 25, 50, 75, 100, 125, 150
77	ZOOP1	10:06	"	"	172	100-52m	flow meter: 30793 → 31550 100m-52m 31050? 10:06-10:08am
78	ZOOP2	10:19	"	"	172	50m-0m	flow meter 31550 - 31300 31050? 50m → 0m 10:19-10:21am
							↑ Labels for flow Reading incorrect.

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: _____

Date: 2 Feb

Consecutive Stn #: 20

Station Name: S4c

Notes: (temperature, wind, barometer, weather, sea-state, etc)

overcast, cold, calm seas, some seabirds, sea lion

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
79	ZOO1	10:42	N 48° 38.301'	W 123° 30.024'	200	100-47	flow meter: 31300 - 31565
80	ZOO2	10:50	N 48° 38.301'	W 123° 30.024'	200	50-0	31565 - 31800
81	Nisk	11:25 am.	N 48° 38.276'	W 123° 30.008'	200		depths: 0, 10, 25, 50, 75, 100, 125, 150m
82	CTD	11:39	N 48° 38.245'	W 123° 29.972'	200	190	

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Sara Campkin

Date: 2 Feb 2014

Consecutive Stn #: 21

Station Name: S3c

Notes: (temperature, wind, barometer, weather, sea-state, etc)
 overcast, calm, sunnier than early on Feb 2, 2014, not really windy.

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
83	CTD	12:10	N48°35.520	W123°30.008	227	215	
84	NISK	12:25	N48°35.546	W123°30.002	227		0, 10, 25, 50, 75, 100 150, 200
85	ZOO 1	12:57	N48°35.557'	W123°29.989'	227	100-49	start 32060 31800 end 32068 part of sample lost
86	ZOO 2	1:02	N48°35.517'	W123°29.977'	226	49-0 50	start 32068 end 32455 part