DATA REPORT
Hydrographic Characteristics of Clayoquot Sound, British Columbia, Canada September 2008 R/V Clifford A Barnes Cruise #9222

By

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Abstract

This cruise report contains a day-by-day sampling log and water column CTD data collected in Clayoquot Sound, British Columbia, Canada. Data was collected from June 18-28, 2008 aboard the R/V Clifford A. Barnes. The objectives of the cruise were to explore the factors that control organic matter remineralization in the water and preservation in the sediment, collect sediment and settling particles for organic analyses back in the lab at the School of Oceanography, University of Washington, Seattle, and to relate water column properties (e.g. oxygen content, temperature) and remotely derived information (satellite and aerial data) to carbon cycling in the fjords. Student researchers collected sediment, particulate and water samples within all the major inlets of Clayoquot Sound.

Introduction

The scientific objectives of the September 2008 cruise to Clayoquot Sound, Vancouver Island included various efforts related to organic carbon cycling in the inlets. Evaluations were made of water column conditions (temperature, density, oxygen content, chlorophyll fluorescence, etc.) within the inlets and sampling near surface light conditions for comparison with satellite/aerial data. To accomplish these goals, several types of measurements were made; CTD casts, multicore sediment grabs, water samples and incubations, plankton samples, sediment trap deployments, and near surface light characteristics. CTD measurements were made at more than fourty stations throughout Clayoquot Sound (Figure 1). Water samples were collected at many stations and bacterial growth rates measured using ^{3}H-thymidine. At two stations, numbered 47 and 48, we deployed the sediment multicorer several times in order to collect sediment for evaluation of stable isotopic compositions of dissolved inorganic carbon. We also deployed a net trap to collect sinking particles at a variety of stations throughout the Sound.

All inquiries for data should be addressed to Dr. Keil. Cruise participants and their affiliations are listed in Table 1. The cruise event log is presented as Table 2.

The June cruise was divided into two legs:

- Leg 1: September 3 - 8, 2008: Focused effort in Tofino Inlet to evaluate sediment and water characteristics, and to evaluate coupling between the water and the watershed. Miles Logsdon and Rick Keil took the lead. We deployed sediment traps in Tofino Inlet near Rankin Rocks and in Tranquil Inlet. Sediment was collected using the multicorer at stations 47 and 48 in Tofino Inlet. We also deployed the weather station and drifting optical turtles to record local water and weather conditions and upper water light field data.
- Leg 2: September 8 - 14, 2008: Water column survey of all of Clayoquot Sound with addition of sediment trap sampling in each inlet. Cheryl Greengrove acted as chief scientist. Measurements included water temperature, salinity, density, particle load, oxygen content, nutrients, phytoplankton abundance and identification, bacterial growth rates and water/atmospheric optical conditions. Our purpose was to identify key features that control the abundance of microscopic organisms in the Sound, and identify key physical features of the local ocean that determine water renewal and mixing in the Sound.

Methods

CTD casts were made with a SEABIRD 911plus equipped with an oxygen sensor, fluorometer, transmissometer and PAR sensor and lowered at a rate of 20 m/min. Oxygen samples were collected and run on board using the Winkler titration method (Carpenter 1965). Nutrient samples were collected on 50 ml sample bottles and frozen for analysis by the UW Marine Chemistry Laboratory upon return. Bacterial growth was measured using the thymidine approach of Chin-Leo and Kirchman (1988). Light measurements were made with a light meter attached to the CTD rosette and surface water characteristics determined by taking surface samples, filtering and storing for future analysis.

The settling trap is described in Peterson et al., 2005. Table 3 presents the CTD data. All times in Table 2 and 3 are local.

References

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Parsons, T.R., Miata, Y., and Lalli, C.M. (1984) A manual of chemical and biological methods for seawater analysis. Pergamon Press, Oxford. 173 p.

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Figure 1. Approximate locations of sampling stations in June 2008. Pipestem Inlet (Barkley Sound, stations 20-25) was not sampled.

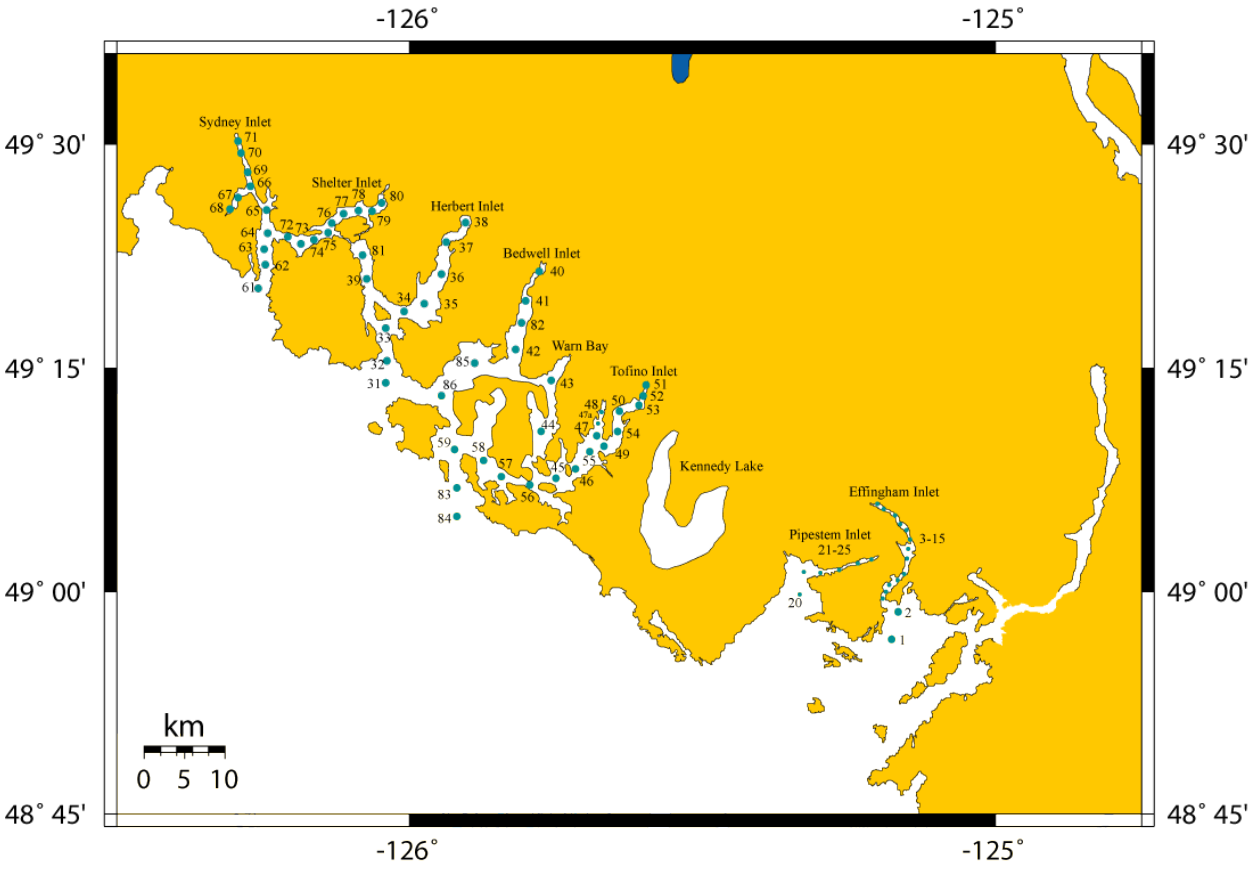

Table 1. Cruise participants and affiliations.

Last Name	First Name	Position	Date Joined	Place Joined	Date Departed	Place Departed
McQuin	Raymond	Captain	9/3/2008	Seattle	9/14/2008	Seattle
Clampett	Brian	First Mate	9/3/2008	Seattle	9/14/2008	Seattle
Keil	Richard	Chief Scientist	9/4/2008	Tofino BC	9/8/2008	Tofino BC
Logsdon	Miles	Co-Chief Scientist	9/4/2008	Tofino BC	9/8/2008	Tofino BC
McDuffee	Kelsey	graduate student	9/4/2008	Tofino BC	9/8/2008	Tofino BC
Ward	Nick	graduate student	9/4/2008	Tofino BC	9/8/2008	Tofino BC
Powers	Kelsey	undergraduate	9/4/2008	Tofino BC	9/8/2008	Tofino BC
Biladeau	Christina	undergraduate	9/4/2008	Tofino BC	9/8/2008	Tofino BC
Greengrove	Cheryl	Co-Chief Scientist	9/8/2008	Tofino BC	9/12/2008	Tofino BC
Chin Leo	Gerardo	Co-Chief Scientist	9/8/2008	Tofino BC	9/12/2008	Tofino BC
Bailey	April	undergraduate	9/8/2008	Tofino BC	9/12/2008	Tofino BC
Masura	Julie	Scientist	9/8/2008	Tofino BC	9/12/2008	Tofino BC
Kimball	Brittany	undergraduate	9/8/2008	Tofino BC	9/12/2008	Tofino BC
Nepela	Ashley	undergraduate	9/8/2008	Tofino BC	9/12/2008	Tofino BC

Table 2. Generalized cruise event log, chronological order.

Date	Day	Agenda
9/3/2008	Wednesday	R/V Barnes departs Seattle
9/4/2008	Thursday	scientific crew lead by Keil meets ship in Tofino
9/5/2008	Friday	deploy anchor for optical array and turtles
		deploy sediment traps at sta 47 & 48
		tested new tripping releases using third trap
		overnight at WeighWest
9/6/2008	Saturday	turn around both traps and deploy new turtles
		CTDs at Sta 48 & 47
		started bag experiment
9/7/2008	Sunday	redeploy turtles from small Avon
		move sta 47 trap closer to the center of the channel
		multicores at sta 48 & 47
		gave public lecture at Tofino Botanical Gardens
9/8/2008	Monday	deploy turtles perpendicular to channel S of Sta 47
		all traps recovered
		weather station and anchors recovered
9/9/2008	Tuesday	new scientific crew lead by C. Greengrove
		headed up to Sydney Inlet
		CTD 71,70,69,66-60
		overnight at Hot Springs Cove
9/10/2008	Wednesday	CTD in Shelter Sta 72-78, 80, 790, 81, 39,34-38
		van veen grab in Gibson Cove
		overnight Gibson Cove, Herbert Inlet
9/11/2008	Thursday	CTD Herbert Inlet 33-31, 86,85
		CTD Bedwell 42,82,41,40,43,4455
		multicore at sta 55
		overnight head of Tranquil Inlet
9/12/2008	Friday	Tofino Inlet CTD 51-53,50,54,49,55,46,45,56-59
		offshore CTDs sta 83,106
		van veen grab near sta 83
9/13/2008	Saturday	science crew departs
		ship moves to Victoria
9/14/2008	Sunday	Victoria - Seattle

Table 3. CTD data from June 2008.

Latitude [deg]	Longitude [deg]	Depth [m]	Temp deg C	Salinity [PSU]	Density [sigma-theta, Kg/m^3]	%Trans [%]	Oxygen [mg/l]	Oxygen [% sat]	PAR	Fluorescence [mg/m^3]
49.30	-126.03	6	12.38	30.09	22.71	88.59	6.47	73.15	20.98	0.67
49.30	-126.03	10	12.25	30.20	22.82	90.83	6.26	70.57	7.26	0.56
49.30	-126.03	12	12.12	30.28	22.90	91.09	6.11	68.70	4.30	0.49
49.30	-126.03	14	11.94	30.42	23.04	92.50	5.81	65.22	2.63	0.16
49.30	-126.03	16	11.89	30.46	23.08	93.00	5.75	64.41	1.71	0.16
49.30	-126.03	20	11.71	30.62	23.24	93.26	5.57	62.30	0.77	0.09
49.30	-126.03	22	11.61	30.70	23.32	93.25	5.50	61.32	0.51	0.08
49.30	-126.03	24	11.54	30.76	23.38	93.22	5.44	60.62	0.35	0.11
49.30	-126.03	26	11.46	30.83	23.45	93.38	5.37	59.74	0.23	0.10
49.30	-126.03	28	11.40	30.89	23.50	93.22	5.29	58.84	0.16	0.06
49.30	-126.03	30	11.25	31.01	23.63	93.55	5.18	57.51	0.11	0.10
49.30	-126.03	32	11.20	31.07	23.68	93.66	5.13	56.91	0.08	0.11
49.30	-126.03	34	11.13	31.12	23.73	93.61	5.06	56.03	0.06	0.05
49.30	-126.03	36	10.95	31.22	23.84	93.68	4.85	53.53	0.04	-0.08
49.30	-126.03	38	10.81	31.32	23.94	93.40	4.68	51.50	0.03	-0.22
49.30	-126.03	40	10.70	31.35	23.98	93.65	4.57	50.14	0.02	-0.31
49.30	-126.03	42	10.44	31.34	24.02	93.98	4.25	46.34	0.02	-0.30
49.30	-126.03	44	10.39	31.35	24.04	93.71	4.13	45.12	0.02	-0.30
49.30	-126.03	46	10.34	31.36	24.06	93.75	4.09	44.62	0.01	-0.31
49.39	-125.94	51	9.37	31.13	24.03	96.33	3.88	41.33	0.01	-0.35
49.41	-125.91	5	14.38	29.62	21.95	83.55	10.15	118.52	0.02	0.93
49.41	-125.91	6	13.96	29.76	22.14	82.26	9.88	114.84	0.01	1.37
49.41	-125.91	8	13.32	30.01	22.47	80.06	8.77	100.86	0.01	2.08
49.41	-125.91	10	12.95	30.16	22.65	82.22	7.93	90.60	0.01	1.23
49.41	-125.91	12	12.65	30.27	22.80	83.92	7.44	84.54	0.00	0.95

49.41	-125.91	14	12.40	30.34	22.90	87.01	7.12	80.38	0.00	0.76
49.41	-125.91	16	11.87	30.42	23.05	88.55	6.22	69.29	0.00	0.44
49.41	-125.91	18	11.49	30.48	23.17	90.47	5.29	58.64	0.01	0.23
49.41	-125.91	20	11.15	30.55	23.28	91.54	4.46	49.13	0.00	-0.01
49.41	-125.91	22	10.90	30.59	23.36	92.81	3.84	42.14	0.00	-0.16
49.41	-125.91	24	10.64	30.63	23.43	94.02	3.16	34.50	0.00	-0.24
49.41	-125.91	26	10.38	30.67	23.51	94.89	2.43	26.42	0.00	-0.30
49.41	-125.91	28	10.22	30.71	23.57	95.65	2.02	21.86	0.00	-0.31
49.41	-125.91	30	10.12	30.74	23.61	95.94	1.84	19.84	0.00	-0.31
49.41	-125.91	32	10.03	30.77	23.64	96.15	1.77	19.14	0.00	-0.31
49.41	-125.91	34	9.94	30.79	23.67	96.27	1.81	19.48	0.00	-0.31
49.41	-125.91	36	9.77	30.82	23.73	96.31	2.06	22.10	0.00	-0.32
49.41	-125.91	38	9.53	30.86	23.80	96.35	2.20	23.42	0.00	-0.32
49.41	-125.91	40	9.35	30.89	23.85	96.35	2.53	26.83	0.00	-0.32
49.41	-125.91	42	9.23	30.92	23.89	96.27	2.87	30.41	0.00	-0.33
49.41	-125.91	44	9.15	30.94	23.92	96.22	3.04	32.15	0.00	-0.33
49.41	-125.91	46	9.09	30.96	23.94	96.16	3.11	32.87	0.00	-0.34
49.41	-125.91	48	9.05	30.98	23.97	96.08	3.25	34.34	0.00	-0.34
49.41	-125.91	50	9.03	31.01	23.99	95.94	3.38	35.73	0.00	-0.34
49.41	-125.91	52	9.01	31.03	24.01	95.94	3.45	36.43	0.00	-0.34
49.41	-125.91	54	9.00	31.06	24.03	95.96	3.50	37.00	0.00	-0.34
49.41	-125.91	56	8.98	31.07	24.05	95.98	3.46	36.49	0.00	-0.34
49.41	-125.91	57	8.98	31.09	24.06	95.96	3.44	36.35	0.00	-0.34
49.41	-125.91	59	8.99	31.12	24.08	95.81	3.38	35.68	0.00	-0.34
49.41	-125.91	61	9.01	31.16	24.11	95.70	3.34	35.28	0.00	-0.34
49.41	-125.91	63	9.03	31.17	24.12	95.42	3.28	34.72	0.00	-0.34
49.41	-125.91	65	9.06	31.20	24.14	95.36	3.28	34.72	0.00	-0.34
49.41	-125.91	67	9.09	31.22	24.15	95.19	3.26	34.60	0.01	-0.34
49.41	-125.91	69	9.14	31.25	24.16	95.04	3.26	34.57	0.01	-0.34
49.41	-125.91	71	9.19	31.27	24.17	94.91	3.25	34.55	0.01	-0.34
49.41	-125.91	73	9.23	31.29	24.18	94.73	3.22	34.23	0.01	-0.34
49.41	-125.91	75	9.25	31.31	24.19	94.60	3.15	33.53	0.01	-0.34
49.41	-125.91	77	9.27	31.31	24.19	94.50	3.09	32.85	0.01	-0.34
49.41	-125.91	79	9.29	31.32	24.20	94.21	3.01	32.09	0.01	-0.34

49.41	-125.91	81	9.30	31.33	24.20	93.99	2.98	31.72	0.01	-0.34
49.41	-125.91	83	9.31	31.34	24.20	93.57	3.00	31.98	0.01	-0.34
49.41	-125.91	85	9.32	31.34	24.20	93.44	2.97	31.65	0.01	-0.34
49.41	-125.91	87	9.33	31.34	24.21	93.34	2.92	31.10	0.01	-0.34
49.41	-125.91	89	9.33	31.35	24.21	93.33	2.90	30.89	0.01	-0.35
49.33	-126.07	5	12.53	29.87	22.51	85.02	6.98	78.95	266.56	0.93
49.33	-126.07	6	12.43	29.93	22.57	85.89	6.71	75.85	181.80	0.82
49.33	-126.07	8	12.24	30.10	22.74	89.51	6.24	70.30	95.47	0.43
49.33	-126.07	13	11.76	30.57	23.19	94.17	5.56	62.14	21.34	-0.15
49.33	-126.07	22	11.40	30.99	23.59	95.07	5.29	58.90	3.69	-0.32
49.33	-126.07	24	11.33	31.03	23.63	94.88	5.18	57.60	2.78	-0.31
49.33	-126.07	33	10.95	31.33	23.92	94.59	4.96	54.79	0.57	-0.31
49.33	-126.07	36	10.85	31.37	23.98	94.59	4.84	53.31	0.41	-0.31
49.33	-126.07	38	10.80	31.39	24.00	94.54	4.79	52.76	0.30	-0.32
49.33	-126.07	40	10.79	31.41	24.02	94.33	4.78	52.68	0.22	-0.31
49.33	-126.07	42	10.76	31.42	24.03	94.23	4.77	52.51	0.16	-0.30
49.33	-126.07	44	10.71	31.43	24.05	94.23	4.69	51.57	0.13	-0.32
49.33	-126.07	46	10.63	31.44	24.06	94.07	4.60	50.39	0.10	-0.31
49.33	-126.07	48	10.55	31.44	24.09	94.12	4.45	48.77	0.07	-0.31
49.33	-126.07	50	10.54	31.47	24.11	94.04	4.46	48.85	0.06	-0.31
49.33	-126.07	52	10.50	31.48	24.12	93.96	4.41	48.27	0.04	-0.31
49.33	-126.07	54	10.43	31.48	24.13	93.92	4.31	47.05	0.03	-0.32
49.33	-126.07	56	10.26	31.47	24.15	93.87	4.13	44.92	0.03	-0.33
49.33	-126.07	57	10.17	31.47	24.17	93.87	3.96	43.07	0.02	-0.34
49.33	-126.07	59	10.36	31.53	24.18	93.83	4.18	45.53	0.02	-0.32
49.33	-126.07	61	10.11	31.52	24.22	94.14	3.92	42.51	0.01	-0.34
49.33	-126.07	63	10.03	31.54	24.25	93.98	3.79	41.04	0.01	-0.34
49.33	-126.07	65	9.86	31.56	24.29	93.77	3.50	37.76	0.01	-0.35
49.33	-126.07	67	9.81	31.59	24.33	91.39	3.05	32.93	0.01	-0.35
49.33	-126.07	69	9.79	31.62	24.35	88.52	2.88	31.03	0.01	-0.35
49.33	-126.07	71	9.78	31.63	24.36	88.11	2.80	30.25	0.01	-0.34
49.33	-126.07	73	9.77	31.64	24.36	87.20	2.70	29.18	0.01	-0.34
49.33	-126.07	75	9.77	31.65	24.37	86.40	2.67	28.80	0.01	-0.35

49.33	-126.07	77	9.77	31.65	24.38	86.25	2.65	28.57	0.01	-0.35
49.33	-126.07	79	9.77	31.66	24.38	86.33	2.62	28.27	0.01	-0.35
49.33	-126.07	81	9.76	31.66	24.39	86.52	2.62	28.24	0.01	-0.34
49.33	-126.07	83	9.76	31.67	24.39	86.95	2.60	28.02	0.01	-0.35
49.33	-126.07	85	9.76	31.67	24.39	86.57	2.58	27.78	0.01	-0.34
49.33	-126.07	87	9.76	31.67	24.39	86.99	2.59	27.93	0.01	-0.35
49.33	-126.07	89	9.76	31.67	24.40	87.92	2.54	27.43	0.01	-0.34
49.34	-125.80	13	13.32	28.86	21.58	93.70	5.90	67.47	11.97	-0.18
49.34	-125.80	19	13.00	29.11	21.84	94.06	5.80	66.03	3.05	-0.28
49.34	-125.80	24	12.77	29.32	22.04	93.63	5.50	62.39	0.96	-0.27
49.34	-125.80	36	12.54	29.55	22.26	91.16	4.84	54.65	0.11	-0.27
49.34	-125.80	44	12.44	30.01	22.64	86.30	5.50	62.21	0.02	-0.23
49.34	-125.80	46	12.42	30.10	22.71	86.01	5.63	63.74	0.02	-0.22
49.34	-125.80	48	12.41	30.11	22.72	86.03	5.67	64.15	0.01	-0.21
49.34	-125.80	50	12.39	30.16	22.76	85.65	5.69	64.36	0.01	-0.22
49.34	-125.80	52	12.37	30.18	22.78	84.68	5.70	64.44	0.01	-0.22
49.34	-125.80	54	12.37	30.18	22.78	84.36	5.70	64.44	0.01	-0.22
49.34	-125.80	66	12.26	30.35	22.93	73.97	5.62	63.51	0.00	-0.07
49.24	-125.76	5	13.62	27.82	20.72	90.80	6.47	74.04	370.54	0.36
49.24	-125.76	6	13.63	27.84	20.73	91.39	6.45	73.81	260.11	0.46
49.24	-125.76	8	13.60	27.96	20.83	91.41	6.45	73.78	138.61	0.39
49.24	-125.76	10	13.46	28.15	21.01	92.43	6.24	71.24	78.32	0.07
49.24	-125.76	12	13.38	28.22	21.08	93.32	6.11	69.74	45.25	-0.08
49.24	-125.76	14	13.38	28.29	21.13	93.27	6.15	70.24	26.86	-0.10
49.24	-125.76	16	13.37	28.36	21.18	93.19	6.21	70.93	16.36	-0.06
49.24	-125.76	18	13.39	28.39	21.20	92.68	6.28	71.75	10.00	0.03
49.24	-125.76	20	13.40	28.40	21.21	92.03	6.36	72.70	6.00	0.15
49.24	-125.76	22	13.41	28.41	21.22	91.40	6.40	73.15	3.65	0.19
49.24	-125.76	24	13.43	28.44	21.23	91.09	6.48	74.18	2.27	0.24
49.24	-125.76	26	13.42	28.49	21.28	90.56	6.54	74.81	1.40	0.30
49.24	-125.76	28	13.40	28.52	21.31	90.25	6.53	74.65	0.86	0.25
49.24	-125.76	30	13.38	28.56	21.34	90.87	6.49	74.24	0.53	0.23

49.24	-125.76	32	13.35	28.58	21.36	90.96	6.43	73.46	0.33	0.13
49.24	-125.76	34	13.35	28.59	21.37	91.13	6.42	73.44	0.21	0.15
49.24	-125.76	36	13.34	28.62	21.39	90.99	6.46	73.90	0.13	0.24
49.24	-125.76	38	13.33	28.63	21.40	90.84	6.45	73.71	0.09	0.21
49.24	-125.76	40	13.33	28.64	21.41	91.06	6.44	73.63	0.06	0.19
49.24	-125.76	42	13.32	28.64	21.41	90.93	6.44	73.56	0.04	0.18
49.24	-125.76	44	13.33	28.64	21.41	90.96	6.44	73.56	0.03	0.20
49.24	-125.76	46	13.32	28.65	21.42	90.97	6.42	73.41	0.02	0.18
49.24	-125.76	48	13.31	28.66	21.43	91.21	6.40	73.13	0.01	0.14
49.24	-125.76	50	13.31	28.66	21.43	91.54	6.40	73.12	0.01	0.14
49.24	-125.76	52	13.31	28.68	21.44	91.32	6.43	73.51	0.01	0.20
49.24	-125.76	54	13.29	28.69	21.46	90.84	6.37	72.79	0.01	0.12
49.24	-125.76	56	13.29	28.72	21.48	90.84	6.39	73.03	0.01	0.14
49.24	-125.76	57	13.27	28.75	21.51	91.20	6.36	72.68	0.01	0.11
49.24	-125.76	59	13.26	28.76	21.52	91.50	6.36	72.61	0.01	0.11
49.24	-125.76	61	13.26	28.77	21.52	91.57	6.36	72.68	0.01	0.10
49.24	-125.76	63	13.25	28.78	21.53	91.44	6.36	72.64	0.00	0.09
49.24	-125.76	65	13.25	28.78	21.54	91.48	6.35	72.56	0.00	0.10
49.24	-125.76	67	13.25	28.79	21.54	91.40	6.35	72.52	0.00	0.09
49.24	-125.76	69	13.24	28.81	21.56	91.59	6.33	72.31	0.00	0.06
49.24	-125.76	71	13.23	28.81	21.56	91.51	6.32	72.15	0.00	0.05
49.24	-125.76	73	13.23	28.81	21.56	91.48	6.32	72.15	0.00	0.04
49.24	-125.76	75	13.23	28.82	21.57	91.33	6.33	72.25	0.00	0.05
49.24	-125.76	77	13.23	28.82	21.57	91.33	6.32	72.21	0.00	0.07
49.24	-125.76	79	13.22	28.83	21.58	91.43	6.31	72.08	0.00	0.04
49.24	-125.76	81	13.22	28.83	21.58	91.48	6.31	72.03	0.00	0.05
49.24	-125.76	83	13.21	28.84	21.59	91.18	6.31	72.03	0.00	0.03
49.24	-125.76	85	13.21	28.85	21.60	91.24	6.32	72.12	0.00	0.04
49.24	-125.76	87	13.21	28.85	21.60	91.10	6.31	72.02	0.00	0.04
49.24	-125.76	89	13.21	28.85	21.60	91.23	6.32	72.11	0.00	0.04
49.24	-125.76	91	13.21	28.86	21.60	91.16	6.32	72.18	0.00	0.05
49.24	-125.76	93	13.21	28.86	21.60	90.86	6.32	72.20	0.00	0.08
49.24	-125.76	95	13.21	28.86	21.60	90.97	6.32	72.19	0.00	0.08
49.24	-125.76	97	13.21	28.86	21.60	90.88	6.32	72.19	0.00	0.06

49.24	-125.76	99	13.21	28.86	21.61	91.06	6.33	72.22	0.00	0.07
49.24	-125.76	101	13.21	28.86	21.61	90.85	6.32	72.14	0.00	0.07
49.24	-125.76	103	13.21	28.86	21.61	90.89	6.32	72.14	0.00	0.08
49.24	-125.76	105	13.21	28.86	21.61	90.87	6.32	72.12	0.00	0.06
49.24	-125.76	107	13.21	28.86	21.61	91.08	6.31	72.05	0.00	0.07
49.24	-125.76	109	13.21	28.86	21.61	90.91	6.29	71.84	0.00	0.03
49.24	-125.76	111	13.21	28.86	21.61	91.03	6.29	71.82	0.00	0.04
49.24	-125.76	113	13.20	28.86	21.61	91.01	6.30	71.87	0.00	0.07
49.24	-125.76	115	13.20	28.86	21.61	91.16	6.29	71.84	0.00	0.05
49.24	-125.76	117	13.20	28.87	21.62	90.83	6.30	71.91	0.00	0.07
49.24	-125.76	119	13.19	28.89	21.63	90.65	6.30	71.91	0.00	0.07
49.24	-125.76	121	13.19	28.89	21.63	90.68	6.30	71.89	0.00	0.07
49.24	-125.76	123	13.19	28.89	21.63	90.68	6.30	71.91	0.00	0.09
49.24	-125.76	125	13.18	28.90	21.64	90.49	6.30	71.87	0.00	0.06
49.24	-125.76	127	13.18	28.92	21.65	90.34	6.29	71.84	0.00	0.08
49.24	-125.76	129	13.17	28.94	21.67	89.85	6.28	71.69	0.00	0.06
49.24	-125.76	131	13.16	28.94	21.67	89.43	6.28	71.70	0.00	0.07
49.24	-125.76	133	13.16	28.94	21.67	88.94	6.28	71.70	0.00	0.08
49.24	-125.76	135	13.16	28.94	21.68	88.51	6.28	71.62	0.00	0.06
49.19	-125.76	46	13.25	28.71	21.48	92.87	6.13	69.98	0.01	-0.23
49.19	-125.76	50	13.25	28.72	21.49	92.08	6.12	69.86	0.01	-0.23
49.19	-125.76	52	13.25	28.72	21.49	91.65	6.11	69.82	0.01	-0.23
49.19	-125.76	54	13.25	28.72	21.49	90.10	6.10	69.68	0.01	-0.23
49.19	-125.76	56	13.25	28.73	21.49	89.44	6.09	69.48	0.01	-0.22
49.19	-125.76	65	13.24	28.76	21.52	89.41	6.12	69.89	0.00	-0.22
49.19	-125.76	67	13.24	28.76	21.52	88.01	6.11	69.74	0.00	-0.22
49.13	-125.72	47	11.95	28.56	21.61	90.80	4.82	53.49	0.02	-0.32
49.13	-125.72	50	11.97	28.58	21.61	90.50	4.79	53.20	0.01	-0.32
49.13	-125.72	52	12.00	28.59	21.62	88.18	4.73	52.51	0.01	-0.33
49.13	-125.72	53	12.06	28.63	21.64	82.72	4.57	50.92	0.01	-0.31
49.16	-125.70	5	13.86	26.42	19.60	90.54	6.56	74.81	38.18	0.58

49.16	-125.70	6	13.78	26.59	19.74	91.15	6.46	73.58	24.77	0.50
49.16	-125.70	8	13.58	27.07	20.15	92.34	6.30	71.71	8.94	0.10
49.16	-125.70	10	13.56	27.26	20.30	93.69	6.36	72.46	5.21	-0.10
49.16	-125.70	12	13.48	27.42	20.44	94.17	6.34	72.13	2.92	-0.18
49.16	-125.70	14	13.37	27.55	20.56	94.40	6.25	71.03	1.65	-0.21
49.16	-125.70	16	13.28	27.70	20.69	94.61	6.27	71.17	0.98	-0.25
49.16	-125.70	18	13.13	27.77	20.77	94.49	6.41	72.55	0.59	-0.26
49.16	-125.70	20	12.94	27.86	20.88	95.29	6.73	75.98	0.38	-0.28
49.16	-125.70	22	12.79	27.91	20.95	95.53	6.59	74.23	0.26	-0.28
49.16	-125.70	24	12.88	28.03	21.03	94.78	6.01	67.81	0.17	-0.27
49.16	-125.70	26	12.92	28.09	21.06	93.96	5.85	66.07	0.12	-0.27
49.16	-125.70	28	12.85	28.14	21.11	94.20	5.96	67.15	0.08	-0.28
49.16	-125.70	30	12.36	28.13	21.18	94.73	6.04	66.94	0.06	-0.29
49.16	-125.70	32	11.54	28.05	21.27	95.26	6.05	66.22	0.04	-0.30
49.16	-125.70	34	11.65	28.13	21.33	95.75	5.84	64.38	0.03	-0.30
49.16	-125.70	36	11.72	28.20	21.36	95.62	5.61	61.70	0.02	-0.31
49.16	-125.70	38	11.54	28.25	21.43	95.41	5.37	58.84	0.02	-0.30
49.16	-125.70	40	11.39	28.29	21.49	95.50	5.14	56.32	0.01	-0.31
49.16	-125.70	42	11.52	28.37	21.53	95.46	5.12	56.33	0.01	-0.31
49.16	-125.70	44	11.76	28.48	21.58	95.44	5.16	57.10	0.01	-0.32
49.16	-125.70	46	11.84	28.53	21.60	94.64	5.16	57.10	0.01	-0.32
49.16	-125.70	48	11.85	28.54	21.61	94.34	5.15	57.05	0.01	-0.32
49.16	-125.70	50	11.91	28.57	21.62	94.03	5.13	56.93	0.01	-0.33
49.16	-125.70	52	12.00	28.61	21.64	92.80	5.09	56.54	0.01	-0.33
49.16	-125.70	54	12.03	28.63	21.65	91.58	5.05	56.16	0.01	-0.33
49.16	-125.70	56	12.07	28.66	21.66	90.80	5.00	55.65	0.01	-0.33
49.16	-125.70	57	12.10	28.68	21.67	90.97	5.03	56.05	0.01	-0.33
49.16	-125.70	59	12.14	28.70	21.68	91.81	4.97	55.45	0.01	-0.33
49.16	-125.70	61	12.15	28.71	21.68	91.26	4.92	54.90	0.01	-0.33
49.16	-125.70	63	12.17	28.72	21.69	90.43	4.88	54.43	0.01	-0.33
49.16	-125.70	65	12.19	28.73	21.69	89.59	4.84	54.06	0.00	-0.33
49.16	-125.70	67	12.23	28.75	21.70	88.13	4.66	52.15	0.00	-0.32
49.16	-125.70	69	12.26	28.76	21.70	86.35	4.49	50.20	0.01	-0.30

49.20	-125.67	5	14.23	26.23	19.36	89.34	7.02	80.31	156.96	0.41
49.20	-125.67	6	13.96	26.62	19.73	92.41	6.86	78.35	102.08	0.14
49.20	-125.67	8	13.70	27.03	20.09	94.25	6.66	75.92	46.59	-0.10
49.20	-125.67	10	13.63	27.20	20.24	94.79	6.88	78.39	24.15	-0.18
49.20	-125.67	12	13.41	27.35	20.39	95.81	7.59	86.14	13.78	-0.25
49.20	-125.67	14	13.28	27.48	20.52	96.28	7.37	83.29	8.47	-0.26
49.20	-125.67	16	12.90	27.58	20.67	96.15	7.63	85.50	5.51	-0.29
49.20	-125.67	18	12.38	27.63	20.79	96.20	7.80	85.69	3.66	-0.29
49.20	-125.67	20	10.95	27.69	21.08	96.26	7.00	75.03	2.52	-0.30
49.20	-125.67	22	10.72	28.08	21.45	96.32	5.13	55.45	1.79	-0.30
49.20	-125.67	24	10.95	28.20	21.50	96.53	4.45	48.31	1.29	-0.29
49.20	-125.67	26	11.10	28.26	21.52	96.30	4.47	48.65	0.93	-0.30
49.20	-125.67	28	11.19	28.29	21.53	96.39	4.46	48.67	0.67	-0.31
49.20	-125.67	30	11.26	28.32	21.54	96.58	4.45	48.64	0.49	-0.31
49.20	-125.67	32	11.33	28.35	21.55	96.74	4.34	47.54	0.36	-0.31
49.20	-125.67	34	11.44	28.41	21.58	96.84	3.84	42.18	0.26	-0.31
49.20	-125.67	36	11.60	28.50	21.62	96.59	2.74	30.31	0.19	-0.29
49.20	-125.67	38	12.02	28.80	21.79	89.72	0.98	11.03	0.14	-0.24
49.20	-125.67	40	12.80	29.49	22.18	71.30	0.36	4.08	0.09	-0.04
49.20	-125.67	42	12.99	29.62	22.23	82.94	0.27	3.09	0.03	0.03
49.20	-125.67	44	13.00	29.62	22.23	92.55	0.24	2.68	0.01	0.03
49.20	-125.67	46	13.00	29.62	22.23	93.42	0.21	2.45	0.01	0.03
49.20	-125.67	48	13.00	29.62	22.23	93.70	0.20	2.34	0.01	0.03
49.16	-125.67	40	11.04	28.17	21.46	96.20	4.92	53.47	0.03	-0.32
49.16	-125.67	46	11.58	28.46	21.59	96.23	4.84	53.34	0.02	-0.32
49.16	-125.67	48	11.71	28.51	21.61	96.13	4.91	54.16	0.01	-0.32
49.16	-125.67	50	11.73	28.53	21.61	95.53	4.92	54.29	0.01	-0.32
49.16	-125.67	52	11.78	28.55	21.62	95.32	4.93	54.50	0.01	-0.32
49.16	-125.67	54	11.87	28.59	21.64	95.11	4.94	54.77	0.01	-0.32
49.16	-125.67	56	11.91	28.60	21.64	94.45	4.94	54.80	0.01	-0.34
49.16	-125.67	60	12.09	28.69	21.68	90.30	4.77	53.18	0.01	-0.31
49.16	-125.67	61	12.12	28.70	21.68	88.99	4.71	52.53	0.01	-0.34
49.16	-125.67	72	12.19	28.73	21.69	78.88	4.48	50.05	0.01	-0.32

49.20	-125.65	5	14.32	26.85	19.83	83.68	7.61	87.34	21.71	1.35
49.20	-125.65	6	14.07	26.98	19.98	87.39	7.24	83.00	14.61	0.71
49.20	-125.65	8	13.78	27.17	20.19	92.20	6.93	79.12	6.97	0.28
49.20	-125.65	10	13.47	27.35	20.38	93.37	7.35	83.38	3.79	0.07
49.20	-125.65	12	13.12	27.44	20.52	95.13	7.89	88.83	1.99	-0.15
49.20	-125.65	34	10.42	27.85	21.30	97.24	6.04	64.55	0.06	-0.32
49.20	-125.65	36	10.45	27.93	21.37	97.23	5.18	55.46	0.05	-0.32
49.20	-125.65	38	10.78	28.09	21.44	97.18	4.68	50.59	0.04	-0.31
49.20	-125.65	40	11.09	28.24	21.51	97.04	4.54	49.50	0.03	-0.31
49.20	-125.65	42	11.42	28.41	21.58	96.86	4.47	49.01	0.02	-0.32
49.20	-125.65	44	11.49	28.43	21.59	96.69	4.54	49.85	0.02	-0.31
49.20	-125.65	46	11.58	28.47	21.60	96.49	4.63	50.92	0.02	-0.31
49.20	-125.65	48	11.68	28.51	21.61	96.45	4.73	52.17	0.01	-0.32
49.20	-125.65	50	11.75	28.54	21.62	96.30	4.82	53.26	0.01	-0.32
49.20	-125.65	52	11.82	28.57	21.64	96.31	4.89	54.09	0.01	-0.32
49.20	-125.65	54	11.87	28.59	21.65	96.16	4.92	54.54	0.01	-0.33
49.20	-125.65	56	11.93	28.62	21.65	96.17	4.95	54.96	0.01	-0.33
49.20	-125.65	58	11.98	28.64	21.66	96.07	4.92	54.72	0.01	-0.30
49.20	-125.65	62	12.12	28.70	21.68	96.13	5.14	57.24	0.01	-0.33
49.20	-125.65	63	12.15	28.71	21.69	96.30	5.13	57.21	0.01	-0.32
49.20	-125.65	68	12.23	28.74	21.70	95.99	4.99	55.76	0.01	-0.32
49.20	-125.65	69	12.23	28.75	21.70	95.60	4.98	55.61	0.01	-0.33
49.20	-125.65	73	12.28	28.77	21.71	95.14	5.01	56.09	0.01	-0.32
49.20	-125.65	75	12.31	28.78	21.71	95.23	5.05	56.54	0.01	-0.33
49.20	-125.65	77	12.34	28.79	21.71	95.38	5.04	56.47	0.01	-0.33
49.20	-125.65	79	12.36	28.80	21.71	95.50	5.08	56.97	0.01	-0.33
49.20	-125.65	81	12.36	28.80	21.72	95.65	5.08	56.95	0.01	-0.32
49.20	-125.65	83	12.37	28.80	21.72	95.83	5.08	56.93	0.01	-0.34
49.20	-125.65	85	12.37	28.80	21.72	95.65	5.11	57.27	0.01	-0.33
49.20	-125.65	87	12.38	28.81	21.72	95.79	5.13	57.55	0.01	-0.32
49.23	-125.60	6	14.12	27.02	20.00	72.95	10.28	117.77	1.06	2.80
49.23	-125.60	8	13.55	27.18	20.23	77.91	10.13	114.88	0.50	0.54

49.23	-125.60	10	12.98	27.28	20.42	82.97	10.23	114.58	0.29	-0.13
49.23	-125.60	12	12.36	27.39	20.61	87.87	10.17	112.55	0.20	-0.23
49.23	-125.60	14	11.79	27.47	20.78	92.99	10.09	110.42	0.14	-0.27
49.23	-125.60	16	11.37	27.53	20.90	95.26	10.46	113.68	0.10	-0.30
49.23	-125.60	18	11.13	27.61	21.00	96.40	9.18	99.15	0.08	-0.29
49.23	-125.60	20	10.56	27.71	21.18	97.06	6.67	71.33	0.06	-0.30
49.23	-125.60	22	10.66	28.07	21.45	97.23	3.47	37.44	0.05	-0.29
49.23	-125.60	24	10.86	28.18	21.49	97.09	3.23	34.94	0.04	-0.29
49.23	-125.60	26	10.92	28.21	21.51	96.66	3.09	33.47	0.03	-0.29
49.23	-125.60	28	10.98	28.23	21.52	95.94	2.83	30.71	0.02	-0.30
49.23	-125.60	30	11.08	28.28	21.54	95.45	2.24	24.39	0.02	-0.29
49.23	-125.60	32	11.32	28.44	21.62	94.92	0.89	9.77	0.01	-0.26
49.23	-125.60	34	11.90	29.12	22.05	90.28	0.29	3.20	0.01	-0.10
49.23	-125.60	36	12.22	29.35	22.17	82.54	0.23	2.58	0.01	0.00
49.23	-125.60	38	12.39	29.46	22.22	80.24	0.21	2.33	0.01	0.05
49.23	-125.60	40	12.40	29.47	22.23	86.03	0.19	2.12	0.01	0.06
49.23	-125.60	42	12.40	29.47	22.23	90.13	0.18	1.98	0.01	0.06
49.22	-125.60	5	14.56	26.76	19.71	72.92	8.83	101.69	5.38	3.89
49.22	-125.60	6	14.21	26.94	19.91	75.52	8.64	99.13	3.27	2.77
49.22	-125.60	8	13.80	27.11	20.13	85.82	8.60	97.83	1.39	0.66
49.22	-125.60	10	13.22	27.23	20.34	92.04	9.08	102.13	0.73	-0.10
49.22	-125.60	12	12.57	27.35	20.55	95.04	9.33	103.67	0.46	-0.22
49.22	-125.60	14	12.06	27.45	20.72	96.43	9.47	104.45	0.32	-0.26
49.22	-125.60	16	11.86	27.52	20.81	97.17	9.14	100.46	0.24	-0.27
49.22	-125.60	18	11.33	27.60	20.96	97.23	8.50	92.37	0.18	-0.29
49.22	-125.60	20	11.02	27.65	21.05	97.27	7.77	83.75	0.13	-0.30
49.22	-125.60	22	10.64	27.96	21.36	97.24	4.46	48.01	0.10	-0.29
49.22	-125.60	24	10.83	28.19	21.51	96.67	3.33	35.97	0.08	-0.29
49.22	-125.60	26	10.95	28.22	21.52	95.76	3.37	36.51	0.06	-0.29
49.22	-125.60	28	11.02	28.25	21.52	94.73	3.06	33.27	0.04	-0.29
49.22	-125.60	30	11.10	28.30	21.55	93.89	2.38	25.96	0.03	-0.28
49.22	-125.60	32	11.27	28.39	21.59	93.38	1.24	13.52	0.02	-0.27
49.22	-125.60	34	11.61	28.62	21.72	88.21	0.36	3.98	0.02	-0.22

49.22	-125.60	36	12.19	29.08	21.97	80.59	0.27	2.99	0.01	-0.14
49.22	-125.60	38	12.78	29.40	22.11	81.38	0.23	2.65	0.01	-0.05
49.21	-125.61	5	14.27	26.98	19.94	78.70	8.65	99.54	6.16	1.98
49.21	-125.61	6	13.97	27.09	20.08	80.77	8.41	96.12	4.11	0.75
49.21	-125.61	8	13.53	27.26	20.30	88.21	8.32	94.38	2.04	0.09
49.21	-125.61	10	13.11	27.35	20.45	92.23	8.60	96.60	1.20	-0.06
49.21	-125.61	12	12.53	27.44	20.63	94.47	8.97	99.65	0.77	-0.19
49.21	-125.61	14	12.04	27.52	20.77	95.82	9.05	99.57	0.54	-0.23
49.21	-125.61	16	11.62	27.55	20.88	96.86	9.11	99.51	0.38	-0.26
49.18	-125.65	5	13.96	26.72	19.80	90.39	6.48	74.09	24.34	0.28
49.18	-125.65	6	13.86	26.87	19.94	92.18	6.33	72.30	16.62	0.19
49.18	-125.65	8	13.70	27.16	20.19	93.88	6.41	73.18	8.24	0.06
49.18	-125.65	10	13.58	27.32	20.34	94.84	6.78	77.13	4.63	-0.04
49.18	-125.65	12	13.29	27.50	20.53	95.68	7.06	79.81	2.81	-0.14
49.18	-125.65	14	12.88	27.63	20.71	96.48	7.49	84.20	1.81	-0.22
49.18	-125.65	16	12.76	27.78	20.85	96.84	7.14	80.18	1.24	-0.26
49.18	-125.65	18	12.73	27.86	20.92	97.04	6.92	77.99	0.80	-0.26
49.18	-125.65	50	11.71	28.52	21.62	96.02	4.86	53.66	0.01	-0.32
49.18	-125.65	52	11.77	28.55	21.63	96.06	4.92	54.40	0.01	-0.32
49.18	-125.65	85	12.37	28.81	21.72	93.47	5.03	56.42	0.01	-0.32
49.15	-125.69	6	13.68	26.96	20.05	92.81	6.21	70.73	32.39	0.23
49.15	-125.69	8	13.57	27.17	20.23	94.41	6.10	69.39	20.73	0.04
49.15	-125.69	10	13.47	27.44	20.45	95.61	6.10	69.44	12.61	-0.09
49.15	-125.69	12	13.29	27.64	20.65	96.17	5.99	67.87	8.27	-0.20
49.15	-125.69	14	13.15	27.78	20.78	96.26	6.11	69.21	5.55	-0.21
49.15	-125.69	16	13.07	27.86	20.86	95.94	6.05	68.39	3.71	-0.24
49.15	-125.69	18	12.94	27.91	20.92	96.05	6.04	68.07	2.62	-0.25
49.15	-125.69	20	12.99	28.02	21.00	96.16	5.84	66.11	1.80	-0.26
49.15	-125.69	22	13.07	28.11	21.05	95.80	5.74	64.99	1.25	-0.26
49.15	-125.69	24	12.96	28.13	21.08	95.55	5.74	64.81	0.87	-0.26
49.15	-125.69	26	12.60	28.12	21.14	95.74	5.81	64.79	0.59	-0.29

49.15	-125.69	28	11.94	28.07	21.24	96.18	5.84	64.77	0.41	-0.31
49.15	-125.69	30	11.92	28.15	21.28	95.93	5.64	62.19	0.30	-0.31
49.15	-125.69	32	11.69	28.13	21.32	96.10	5.64	62.08	0.22	-0.31
49.15	-125.69	34	11.69	28.18	21.35	95.94	5.48	60.10	0.16	-0.31
49.15	-125.69	36	11.21	28.16	21.42	96.32	5.23	56.86	0.12	-0.31
49.15	-125.69	38	11.24	28.22	21.47	96.48	5.05	55.07	0.09	-0.31
49.15	-125.69	40	11.30	28.30	21.52	96.43	4.90	53.65	0.07	-0.31
49.15	-125.69	42	11.51	28.40	21.56	96.41	4.94	54.26	0.06	-0.32
49.15	-125.69	44	11.64	28.45	21.57	96.49	4.98	54.97	0.04	-0.32
49.15	-125.69	46	11.83	28.52	21.60	96.16	5.00	55.39	0.04	-0.32
49.15	-125.69	48	11.90	28.56	21.61	95.66	4.99	55.35	0.03	-0.32
49.15	-125.69	50	11.96	28.59	21.62	94.46	4.91	54.56	0.02	-0.32
49.15	-125.69	52	11.99	28.61	21.63	93.57	4.88	54.17	0.02	-0.32
49.15	-125.69	54	12.02	28.63	21.65	92.63	4.84	53.79	0.01	-0.32
49.15	-125.69	56	12.03	28.64	21.65	91.76	4.86	54.08	0.01	-0.32
49.15	-125.69	57	12.07	28.66	21.66	91.29	4.79	53.28	0.01	-0.32
49.15	-125.69	59	12.10	28.68	21.67	90.72	4.77	53.20	0.01	-0.32
49.15	-125.69	61	12.13	28.70	21.68	90.30	4.71	52.52	0.01	-0.33
49.33	-126.26	5	10.79	31.86	24.33	85.33	7.13	78.54	210.40	1.90
49.33	-126.26	6	10.56	32.03	24.53	87.33	6.45	70.79	132.35	1.15
49.33	-126.26	8	10.38	32.13	24.65	91.03	5.72	62.70	66.09	0.44
49.33	-126.26	10	10.35	32.14	24.66	91.47	5.64	61.78	32.50	0.45
49.33	-126.26	12	10.29	32.17	24.69	91.71	5.52	60.42	21.46	0.37
49.33	-126.26	14	10.25	32.18	24.71	91.94	5.45	59.64	12.51	0.34
49.33	-126.26	16	10.22	32.19	24.72	91.87	5.42	59.19	7.94	0.31
49.33	-126.26	18	10.20	32.19	24.72	91.93	5.40	59.02	5.11	0.30
49.33	-126.26	20	10.17	32.19	24.73	91.74	5.35	58.35	3.44	0.31
49.36	-126.25	6	11.99	31.13	23.59	91.36	6.50	73.26	136.33	0.26
49.36	-126.25	8	11.73	31.25	23.73	92.11	6.65	74.68	72.42	0.34
49.36	-126.25	10	11.59	31.34	23.82	90.35	7.11	79.57	43.16	1.51
49.36	-126.25	12	11.49	31.37	23.86	88.08	6.84	76.47	24.05	1.44
49.36	-126.25	14	11.34	31.46	23.96	89.57	6.67	74.28	13.03	1.07

49.36	-126.25	16	11.12	31.59	24.10	90.56	6.43	71.42	7.97	0.98
49.36	-126.25	18	11.07	31.62	24.13	91.18	6.31	70.01	5.04	0.83
49.36	-126.25	20	11.04	31.64	24.15	91.40	6.27	69.50	3.21	0.92
49.36	-126.25	22	11.02	31.65	24.17	91.36	6.26	69.43	2.09	0.76
49.36	-126.25	24	10.99	31.67	24.18	91.41	6.22	68.93	1.38	0.81
49.36	-126.25	26	10.98	31.67	24.19	91.48	6.20	68.65	0.93	0.71
49.36	-126.25	28	10.98	31.67	24.19	91.28	6.20	68.64	0.61	0.76
49.38	-126.25	5	11.77	31.25	23.72	92.55	6.36	71.29	242.91	0.12
49.38	-126.25	6	11.62	31.29	23.78	93.00	6.30	70.49	178.40	0.11
49.38	-126.25	8	11.49	31.36	23.85	93.34	6.21	69.38	98.58	0.10
49.38	-126.25	10	11.43	31.38	23.89	93.37	6.21	69.35	59.76	0.20
49.38	-126.25	12	11.42	31.42	23.92	91.68	6.54	73.05	36.80	0.83
49.38	-126.25	14	11.41	31.46	23.94	90.09	6.83	76.26	23.21	1.40
49.38	-126.25	16	11.24	31.52	24.03	89.78	6.58	73.14	14.24	1.15
49.38	-126.25	18	11.15	31.57	24.08	90.59	6.42	71.26	8.71	0.85
49.38	-126.25	20	11.03	31.63	24.15	91.15	6.24	69.16	5.21	0.62
49.38	-126.25	22	10.92	31.68	24.20	91.77	6.06	67.00	3.39	0.43
49.38	-126.25	24	10.83	31.73	24.26	91.94	5.96	65.83	2.21	0.47
49.38	-126.25	26	10.73	31.77	24.31	92.31	5.80	63.95	1.49	0.31
49.38	-126.25	28	10.64	31.82	24.36	92.04	5.68	62.48	1.04	0.31
49.38	-126.25	30	10.49	31.89	24.44	91.83	5.50	60.34	0.72	0.29
49.38	-126.25	32	10.45	31.91	24.47	91.43	5.43	59.52	0.50	0.30
49.38	-126.25	34	10.43	31.92	24.48	91.39	5.40	59.20	0.35	0.25
49.38	-126.25	36	10.37	31.97	24.53	90.67	5.36	58.71	0.25	0.33
49.38	-126.25	38	10.30	32.00	24.56	89.96	5.26	57.52	0.17	0.23
49.38	-126.25	40	10.21	32.00	24.57	89.98	5.04	55.06	0.12	0.06
49.38	-126.25	42	10.21	32.00	24.58	90.15	5.00	54.55	0.08	0.02
49.38	-126.25	44	10.21	32.00	24.58	90.01	5.00	54.54	0.06	0.01
49.38	-126.25	46	10.21	32.00	24.58	90.04	5.00	54.57	0.04	0.04
49.38	-126.25	48	10.19	32.00	24.58	89.87	4.96	54.15	0.03	0.04
49.38	-126.25	50	10.15	32.03	24.61	89.57	4.90	53.44	0.02	0.02
49.38	-126.25	52	10.13	32.06	24.64	85.84	4.95	53.95	0.02	0.17
49.38	-126.25	54	10.12	32.09	24.66	83.61	4.97	54.20	0.01	0.25

49.38	-126.25	56	10.04	32.09	24.68	81.47	4.81	52.27	0.01	0.18
49.38	-126.25	57	9.97	32.09	24.69	79.18	4.59	49.91	0.01	0.02
49.38	-126.25	59	9.94	32.10	24.70	77.88	4.49	48.75	0.01	-0.07
49.40	-126.24	5	11.87	31.02	23.52	90.34	6.43	72.34	370.54	0.49
49.40	-126.24	6	11.87	31.02	23.52	90.46	6.44	72.47	273.56	0.48
49.40	-126.24	8	11.78	31.10	23.60	90.89	6.37	71.50	165.12	0.41
49.40	-126.24	10	11.44	31.34	23.84	92.60	6.20	69.18	94.19	0.14
49.40	-126.24	12	11.27	31.48	23.99	93.70	5.91	65.75	56.90	-0.03
49.40	-126.24	14	11.11	31.56	24.07	94.36	5.72	63.45	37.31	-0.12
49.40	-126.24	16	10.95	31.62	24.15	94.50	5.78	63.96	24.62	-0.07
49.40	-126.24	18	10.84	31.69	24.22	94.32	5.81	64.11	18.02	0.27
49.40	-126.24	20	10.77	31.73	24.27	93.72	5.77	63.62	12.59	0.42
49.40	-126.24	22	10.60	31.79	24.34	93.42	5.52	60.67	8.80	0.24
49.40	-126.24	24	10.51	31.84	24.40	93.57	5.39	59.19	6.19	0.05
49.40	-126.24	26	10.46	31.87	24.44	93.44	5.35	58.66	4.43	0.19
49.40	-126.24	28	10.45	31.89	24.45	93.10	5.34	58.57	3.18	0.23
49.40	-126.24	30	10.48	31.91	24.46	92.15	5.48	60.14	2.30	0.49
49.40	-126.24	32	10.47	31.90	24.46	91.97	5.45	59.74	1.63	0.39
49.40	-126.24	34	10.49	31.91	24.46	91.97	5.48	60.20	1.12	0.42
49.40	-126.24	36	10.53	31.93	24.46	91.62	5.62	61.79	0.78	0.55
49.40	-126.24	38	10.53	31.93	24.47	91.47	5.66	62.23	0.53	0.54
49.40	-126.24	40	10.53	31.94	24.47	91.15	5.68	62.36	0.36	0.60
49.40	-126.24	42	10.48	31.95	24.49	90.96	5.62	61.73	0.24	0.64
49.40	-126.24	44	10.43	31.97	24.52	90.85	5.55	60.82	0.16	0.56
49.40	-126.24	46	10.36	32.01	24.56	90.51	5.46	59.80	0.11	0.61
49.40	-126.24	48	10.24	32.04	24.60	90.00	5.23	57.11	0.08	0.39
49.40	-126.24	50	10.18	32.03	24.60	89.35	5.07	55.25	0.05	0.34
49.40	-126.24	52	10.14	32.03	24.61	88.53	4.90	53.44	0.04	0.14
49.40	-126.24	54	10.11	32.03	24.62	88.58	4.82	52.52	0.03	0.11
49.40	-126.24	56	10.05	32.03	24.63	88.43	4.70	51.14	0.02	0.03
49.40	-126.24	58	9.98	32.05	24.65	88.79	4.55	49.39	0.01	-0.10
49.40	-126.24	59	9.95	32.06	24.66	88.65	4.46	48.44	0.01	-0.19
49.40	-126.24	61	9.97	32.08	24.68	88.06	4.55	49.38	0.01	-0.09

49.43	-126.24	6	12.59	31.01	23.37	90.97	6.76	77.05	196.33	0.18
49.43	-126.24	8	12.11	31.25	23.65	93.24	6.36	71.89	121.79	-0.01
49.43	-126.24	10	11.82	31.32	23.76	93.63	6.19	69.64	79.29	-0.05
49.43	-126.24	12	11.67	31.40	23.85	94.38	6.01	67.32	54.81	-0.16
49.43	-126.24	14	11.39	31.48	23.97	94.69	5.83	65.02	38.81	-0.18
49.43	-126.24	16	11.13	31.57	24.08	94.62	5.60	62.15	27.77	-0.20
49.43	-126.24	18	10.94	31.64	24.17	95.24	5.41	59.75	19.95	-0.28
49.43	-126.24	20	10.79	31.67	24.22	95.10	5.37	59.24	14.97	-0.26
49.43	-126.24	22	10.68	31.71	24.27	94.94	5.24	57.58	11.18	-0.29
49.43	-126.24	24	10.56	31.76	24.33	94.68	5.07	55.66	8.44	-0.30
49.43	-126.24	26	10.51	31.78	24.35	94.35	4.97	54.48	6.38	-0.31
49.43	-126.24	28	10.48	31.79	24.37	94.15	4.94	54.21	4.81	-0.31
49.43	-126.24	30	10.44	31.81	24.39	93.80	4.93	54.04	3.62	-0.31
49.43	-126.24	32	10.40	31.82	24.41	93.34	4.89	53.49	2.73	-0.30
49.43	-126.24	34	10.34	31.86	24.44	92.98	4.87	53.29	2.03	-0.29
49.43	-126.24	36	10.32	31.87	24.45	92.97	4.93	53.92	1.51	-0.27
49.43	-126.24	38	10.29	31.88	24.47	93.09	4.91	53.62	1.10	-0.25
49.43	-126.24	40	10.25	31.91	24.50	92.76	4.87	53.12	0.82	-0.24
49.43	-126.24	42	10.20	31.94	24.53	92.43	4.80	52.33	0.60	-0.26
49.43	-126.24	44	10.17	31.94	24.54	91.19	4.66	50.76	0.45	-0.22
49.43	-126.24	46	10.14	31.97	24.56	90.98	4.67	50.83	0.33	-0.22
49.43	-126.24	48	10.09	32.00	24.60	90.59	4.68	50.98	0.24	-0.18
49.43	-126.24	50	10.04	32.02	24.62	89.73	4.61	50.12	0.17	-0.16
49.43	-126.24	52	10.02	32.03	24.63	89.06	4.56	49.56	0.12	-0.17
49.43	-126.24	54	10.01	32.04	24.64	88.66	4.53	49.28	0.09	-0.17
49.43	-126.24	56	9.98	32.04	24.64	88.60	4.49	48.73	0.06	-0.19
49.43	-126.24	57	9.94	32.06	24.67	86.45	4.41	47.90	0.05	-0.21
49.43	-126.24	59	9.92	32.06	24.67	86.34	4.38	47.54	0.03	-0.22
49.43	-126.24	61	9.89	32.07	24.68	85.23	4.33	46.91	0.02	-0.24
49.44	-126.26	5	12.13	31.30	23.69	93.63	6.39	72.44	75.57	-0.05
49.44	-126.26	6	12.10	31.31	23.70	93.70	6.34	71.73	71.92	-0.05
49.44	-126.26	8	11.93	31.35	23.76	94.04	6.19	69.74	65.96	-0.09

49.44	-126.26	10	11.76	31.41	23.84	94.39	6.06	68.09	60.14	-0.12
49.44	-126.26	12	11.56	31.46	23.92	94.55	5.92	66.25	53.47	-0.17
49.44	-126.26	14	11.41	31.49	23.97	94.54	5.79	64.54	42.51	-0.18
49.44	-126.26	16	11.11	31.60	24.11	95.04	5.50	61.03	31.47	-0.25
49.44	-126.26	18	10.96	31.63	24.16	95.23	5.37	59.39	24.19	-0.27
49.44	-126.26	20	10.87	31.66	24.20	95.51	5.26	58.11	18.07	-0.31
49.44	-126.26	22	10.76	31.69	24.24	95.46	5.17	56.96	13.75	-0.32
49.44	-126.26	24	10.64	31.74	24.30	94.97	5.04	55.46	10.54	-0.32
49.44	-126.26	26	10.60	31.75	24.32	94.88	4.98	54.72	8.08	-0.32
49.44	-126.26	28	10.52	31.77	24.34	94.71	4.87	53.47	6.15	-0.32
49.44	-126.26	30	10.44	31.81	24.38	94.08	4.80	52.58	4.69	-0.31
49.44	-126.26	32	10.37	31.84	24.42	93.40	4.76	52.03	3.57	-0.31
49.44	-126.26	34	10.32	31.86	24.45	92.92	4.70	51.38	2.70	-0.31
49.44	-126.26	36	10.28	31.88	24.47	92.65	4.70	51.29	2.03	-0.29
49.44	-126.26	38	10.24	31.90	24.49	92.17	4.66	50.90	1.53	-0.28
49.44	-126.26	40	10.22	31.91	24.50	91.97	4.66	50.79	1.14	-0.26
49.44	-126.26	42	10.17	31.93	24.53	91.81	4.58	49.93	0.85	-0.25
49.44	-126.26	44	10.16	31.94	24.54	91.51	4.61	50.21	0.62	-0.23
49.44	-126.26	46	10.14	31.95	24.55	91.53	4.60	50.12	0.46	-0.21
49.44	-126.26	48	10.12	31.96	24.56	91.20	4.53	49.30	0.33	-0.22
49.44	-126.26	50	10.02	32.00	24.61	90.60	4.46	48.47	0.24	-0.21
49.44	-126.26	52	10.00	32.01	24.62	90.03	4.43	48.13	0.18	-0.21
49.44	-126.26	54	9.98	32.02	24.63	89.71	4.40	47.76	0.13	-0.23
49.44	-126.26	56	9.97	32.03	24.64	89.66	4.38	47.55	0.09	-0.22
49.44	-126.26	57	9.95	32.04	24.65	89.51	4.37	47.38	0.07	-0.23
49.44	-126.26	59	9.89	32.06	24.68	88.41	4.29	46.51	0.05	-0.24
49.44	-126.26	61	9.87	32.06	24.68	87.86	4.24	45.95	0.04	-0.24
49.44	-126.26	63	9.77	32.08	24.71	86.35	3.98	43.07	0.03	-0.25
49.44	-126.26	65	9.74	32.09	24.72	85.14	3.86	41.72	0.02	-0.26
49.44	-126.26	67	9.71	32.09	24.73	85.12	3.76	40.55	0.02	-0.27
49.44	-126.26	69	9.56	32.10	24.76	84.48	3.36	36.10	0.01	-0.29
49.44	-126.26	71	9.46	32.12	24.79	82.74	2.96	31.78	0.01	-0.29
49.44	-126.26	73	9.34	32.13	24.82	82.95	2.66	28.46	0.01	-0.31
49.44	-126.26	75	9.28	32.13	24.83	84.91	2.50	26.71	0.01	-0.32

49.44	-126.26	77	9.19	32.14	24.85	85.74	2.30	24.53	0.01	-0.33
49.44	-126.26	79	9.06	32.16	24.88	87.99	2.10	22.31	0.01	-0.34
49.44	-126.26	81	9.02	32.17	24.90	89.47	1.93	20.57	0.01	-0.34
49.44	-126.26	83	8.99	32.18	24.92	89.39	1.83	19.42	0.01	-0.35
49.45	-126.27	9	11.92	31.38	23.79	94.45	6.25	70.47	121.22	-0.15
49.45	-126.27	10	11.74	31.45	23.89	94.28	6.13	68.94	82.13	-0.22
49.45	-126.27	12	11.31	31.54	24.02	94.58	5.70	63.52	63.59	-0.23
49.45	-126.27	14	11.04	31.61	24.13	95.43	5.42	60.05	41.41	-0.25
49.45	-126.27	16	10.95	31.64	24.16	95.59	5.28	58.45	30.68	-0.31
49.45	-126.27	20	10.78	31.69	24.23	95.71	5.12	56.50	17.90	-0.33
49.45	-126.27	22	10.70	31.71	24.27	95.76	5.03	55.37	14.05	-0.33
49.45	-126.27	24	10.63	31.75	24.31	95.59	4.97	54.61	11.11	-0.34
49.45	-126.27	26	10.56	31.77	24.34	95.16	4.83	53.00	8.66	-0.33
49.45	-126.27	28	10.46	31.80	24.38	94.73	4.76	52.15	6.65	-0.33
49.45	-126.27	30	10.37	31.83	24.42	94.18	4.61	50.42	5.12	-0.31
49.45	-126.27	32	10.33	31.85	24.44	93.10	4.67	51.04	3.98	-0.31
49.45	-126.27	35	10.22	31.89	24.49	92.39	4.38	47.77	2.40	-0.31
49.45	-126.27	38	10.18	31.90	24.50	91.81	4.30	46.90	1.72	-0.33
49.45	-126.27	40	10.15	31.91	24.52	91.76	4.22	45.98	1.29	-0.31
49.45	-126.27	42	10.12	31.92	24.53	91.66	4.16	45.26	0.95	-0.32
49.45	-126.27	48	10.05	31.98	24.59	90.65	4.41	47.92	0.35	-0.28
49.45	-126.27	54	9.96	32.02	24.63	89.90	4.26	46.28	0.13	-0.28
49.45	-126.27	58	9.92	32.04	24.66	89.36	4.31	46.71	0.07	-0.27
49.45	-126.27	59	9.85	32.05	24.68	89.05	4.14	44.87	0.05	-0.28
49.45	-126.27	71	9.25	32.09	24.80	90.78	2.87	30.67	0.01	-0.34
49.45	-126.27	80	9.01	32.14	24.88	93.34	2.27	24.13	0.01	-0.34
49.45	-126.27	81	9.00	32.15	24.89	93.30	2.24	23.78	0.01	-0.35
49.45	-126.27	83	8.97	32.16	24.90	93.45	2.13	22.59	0.01	-0.35
49.45	-126.27	85	8.93	32.17	24.91	93.57	2.07	22.03	0.01	-0.35
49.45	-126.27	87	8.91	32.18	24.93	93.70	2.04	21.72	0.01	-0.35
49.45	-126.27	100	8.83	32.23	24.98	89.06	1.45	15.40	0.00	-0.34
49.45	-126.27	104	8.79	32.26	25.01	88.03	1.32	13.96	0.01	-0.34
49.45	-126.27	105	8.78	32.27	25.02	90.95	1.22	12.96	0.01	-0.35

49.45	-126.27	107	8.78	32.29	25.03	90.14	1.08	11.49	0.01	-0.35
49.47	-126.27	47	9.94	31.96	24.59	90.93	3.71	40.30	0.52	-0.34
49.47	-126.27	76	8.98	32.07	24.83	94.70	3.00	31.89	0.01	-0.36
49.47	-126.27	77	8.97	32.08	24.84	94.94	2.96	31.44	0.01	-0.34
49.49	-126.28	5	12.54	31.18	23.51	91.34	6.29	71.59	160.54	0.17
49.49	-126.28	6	12.37	31.23	23.59	92.61	6.18	70.19	167.92	0.09
49.49	-126.28	8	12.03	31.32	23.72	93.41	5.98	67.39	129.01	0.02
49.49	-126.28	10	11.68	31.40	23.85	93.75	5.83	65.30	85.82	-0.05
49.49	-126.28	12	11.37	31.48	23.97	93.62	5.73	63.80	61.20	-0.08
49.49	-126.28	14	11.13	31.53	24.05	94.42	5.56	61.71	43.93	-0.17
49.49	-126.28	16	10.99	31.57	24.10	94.65	5.43	60.00	31.03	-0.18
49.49	-126.28	106	8.74	32.31	25.05	91.84	1.12	11.80	0.01	-0.35
49.50	-126.29	7	12.35	31.23	23.60	91.87	5.91	67.14	55.17	0.17
49.50	-126.29	8	12.16	31.26	23.65	91.96	5.50	62.24	45.79	0.14
49.50	-126.29	10	11.82	31.34	23.78	92.92	5.33	59.87	35.53	0.00
49.50	-126.29	12	11.58	31.39	23.86	93.43	5.39	60.33	30.85	-0.09
49.50	-126.29	14	11.31	31.43	23.94	94.00	5.34	59.35	27.23	-0.16
49.50	-126.29	16	11.01	31.48	24.03	95.10	5.30	58.61	23.38	-0.20
49.50	-126.29	18	10.85	31.50	24.07	95.00	5.19	57.17	19.82	-0.21
49.50	-126.29	20	10.69	31.53	24.12	95.23	5.11	56.15	16.19	-0.26
49.50	-126.29	22	10.53	31.55	24.17	95.63	5.04	55.13	12.87	-0.29
49.50	-126.29	24	10.25	31.58	24.23	95.94	4.79	52.12	10.18	-0.34
49.50	-126.29	26	10.13	31.61	24.28	95.88	4.62	50.19	8.05	-0.34
49.50	-126.29	28	10.06	31.65	24.32	95.87	4.57	49.45	6.37	-0.35
49.50	-126.29	30	9.82	31.62	24.34	95.94	4.49	48.46	5.04	-0.34
49.50	-126.29	32	9.88	31.68	24.38	95.86	4.37	47.29	3.97	-0.35
49.50	-126.29	34	9.71	31.69	24.41	95.60	4.27	45.89	3.15	-0.36
49.50	-126.29	36	9.55	31.71	24.46	95.81	4.21	45.22	2.48	-0.38
49.50	-126.29	38	9.53	31.73	24.48	95.82	4.13	44.38	1.94	-0.37
49.50	-126.29	40	9.42	31.74	24.50	95.65	4.06	43.47	1.52	-0.37
49.50	-126.29	42	9.44	31.78	24.53	95.63	4.00	42.90	1.19	-0.37

49.50	-126.29	44	9.53	31.82	24.54	95.25	3.92	42.05	0.93	-0.36
49.50	-126.29	46	9.27	31.79	24.56	95.27	3.92	41.86	0.73	-0.37
49.50	-126.29	48	9.23	31.81	24.58	95.50	3.90	41.61	0.56	-0.37
49.50	-126.29	50	9.25	31.83	24.60	95.43	3.87	41.29	0.44	-0.36
49.50	-126.29	52	9.29	31.86	24.61	95.37	3.84	40.98	0.34	-0.37
49.50	-126.29	54	9.16	31.85	24.63	95.43	3.81	40.58	0.27	-0.38
49.50	-126.29	56	9.25	31.88	24.64	95.36	3.75	40.09	0.21	-0.37
49.50	-126.29	57	9.14	31.87	24.65	95.41	3.75	39.87	0.16	-0.37
49.50	-126.29	59	8.93	31.85	24.66	95.66	3.75	39.67	0.13	-0.37
49.50	-126.29	61	8.83	31.85	24.68	95.42	3.69	39.01	0.10	-0.37
49.50	-126.29	63	8.78	31.86	24.69	94.98	3.62	38.21	0.08	-0.37
49.50	-126.29	65	8.73	31.88	24.72	95.07	3.55	37.46	0.06	-0.37
49.50	-126.29	67	8.65	31.91	24.75	95.01	3.45	36.32	0.05	-0.37
49.50	-126.29	69	8.51	31.94	24.80	94.97	3.27	34.36	0.04	-0.37
49.50	-126.29	71	8.45	31.96	24.83	93.91	3.05	32.00	0.03	-0.37
49.50	-126.29	73	8.44	31.97	24.83	93.05	2.94	30.80	0.03	-0.37
49.50	-126.29	75	8.42	31.99	24.85	93.67	2.86	30.03	0.02	-0.37
49.50	-126.29	77	8.41	32.02	24.88	92.85	2.63	27.53	0.02	-0.37
49.50	-126.29	79	8.41	32.05	24.90	93.32	2.40	25.22	0.01	-0.37
49.50	-126.29	81	8.43	32.08	24.92	92.16	2.10	22.04	0.01	-0.36
49.50	-126.29	83	8.45	32.10	24.93	91.90	1.86	19.59	0.01	-0.36
49.50	-126.29	85	8.48	32.12	24.94	91.43	1.70	17.86	0.01	-0.36
49.50	-126.29	87	8.50	32.13	24.95	88.18	1.45	15.25	0.01	-0.35
49.50	-126.29	89	8.55	32.17	24.97	86.30	1.16	12.21	0.01	-0.36
49.40	-126.22	6	11.59	31.04	23.59	92.66	5.87	65.68	123.92	0.07
49.40	-126.22	8	11.46	31.27	23.79	92.85	6.04	67.41	71.04	0.11
49.40	-126.22	10	11.32	31.41	23.92	92.94	6.04	67.30	43.00	0.13
49.40	-126.22	12	11.23	31.46	23.98	93.16	5.99	66.64	27.39	0.10
49.40	-126.22	14	11.07	31.57	24.09	92.61	6.01	66.61	18.09	0.20
49.40	-126.22	16	10.86	31.70	24.23	92.47	5.87	64.86	11.85	0.22
49.40	-126.22	18	10.82	31.74	24.27	92.29	5.86	64.71	7.69	0.24
49.40	-126.22	20	10.76	31.75	24.29	92.72	5.76	63.50	5.09	0.17
49.40	-126.22	22	10.67	31.78	24.32	93.19	5.62	61.80	3.38	0.10

49.40	-126.22	24	10.62	31.80	24.35	93.38	5.52	60.76	2.29	0.03
49.40	-126.22	26	10.62	31.81	24.36	93.49	5.53	60.82	1.61	0.03
49.40	-126.22	28	10.60	31.84	24.38	93.27	5.58	61.38	1.14	0.08
49.40	-126.22	30	10.57	31.88	24.42	92.61	5.61	61.64	0.81	0.21
49.40	-126.22	32	10.55	31.89	24.44	92.22	5.62	61.72	0.57	0.29
49.40	-126.22	34	10.54	31.93	24.47	91.73	5.68	62.45	0.40	0.36
49.40	-126.22	36	10.53	31.95	24.48	91.33	5.72	62.86	0.28	0.44
49.40	-126.22	38	10.52	31.96	24.49	91.21	5.71	62.67	0.19	0.47
49.40	-126.22	40	10.48	31.96	24.50	91.06	5.63	61.75	0.13	0.42
49.40	-126.22	42	10.44	31.96	24.50	91.12	5.50	60.30	0.09	0.35
49.40	-126.22	44	10.31	31.98	24.54	90.87	5.24	57.27	0.07	0.16
49.40	-126.22	46	10.25	32.02	24.59	89.65	5.11	55.82	0.05	0.08
49.40	-126.22	48	10.23	32.05	24.61	88.44	5.13	56.01	0.04	0.14
49.40	-126.22	50	10.22	32.06	24.62	87.64	5.12	55.96	0.03	0.15
49.40	-126.22	52	10.20	32.06	24.63	87.44	5.09	55.62	0.02	0.14
49.40	-126.22	54	10.18	32.07	24.64	86.96	5.03	54.91	0.01	0.11
49.40	-126.22	56	10.15	32.08	24.65	85.68	4.95	54.00	0.01	0.07
49.40	-126.22	58	10.11	32.09	24.66	83.09	4.85	52.80	0.01	0.01
49.40	-126.22	59	10.09	32.09	24.67	82.48	4.78	52.04	0.01	0.00
49.39	-126.19	16	10.91	31.62	24.16	93.82	5.74	63.42	17.16	0.03
49.39	-126.19	26	10.42	31.87	24.44	93.86	5.15	56.43	3.29	-0.01
49.39	-126.19	29	10.39	31.89	24.46	93.20	5.13	56.11	1.81	0.02
49.39	-126.19	34	10.30	31.90	24.48	92.98	4.91	53.61	0.89	-0.07
49.39	-126.19	36	10.28	31.91	24.49	92.85	4.82	52.63	0.69	-0.15
49.39	-126.19	38	10.26	31.95	24.53	92.41	4.90	53.56	0.50	-0.09
49.39	-126.19	40	10.22	31.98	24.56	92.03	4.94	53.96	0.35	0.00
49.39	-126.19	42	10.23	31.98	24.55	91.53	4.91	53.60	0.26	-0.02
49.39	-126.19	44	10.21	31.99	24.57	91.33	4.90	53.42	0.19	0.07
49.39	-126.19	46	10.18	32.00	24.58	90.97	4.84	52.82	0.14	0.04
49.39	-126.19	48	10.18	32.00	24.58	90.41	4.84	52.83	0.10	0.02
49.39	-126.19	50	10.16	32.01	24.59	90.28	4.82	52.55	0.07	0.01
49.39	-126.19	52	10.13	32.02	24.61	89.84	4.76	51.85	0.05	0.00
49.39	-126.19	54	10.08	32.03	24.62	89.29	4.67	50.88	0.04	-0.06

49.39	-126.19	56	10.06	32.04	24.63	88.68	4.62	50.31	0.03	-0.08
49.39	-126.19	57	10.07	32.05	24.64	87.75	4.66	50.76	0.02	-0.05
49.39	-126.19	59	10.08	32.07	24.65	86.60	4.70	51.16	0.02	-0.01
49.39	-126.19	61	10.04	32.08	24.67	83.63	4.63	50.38	0.01	0.06
49.39	-126.19	63	10.03	32.08	24.67	83.43	4.60	50.05	0.01	-0.03
49.39	-126.19	65	10.02	32.08	24.67	82.76	4.59	49.92	0.01	-0.03
49.39	-126.19	67	10.01	32.08	24.67	83.16	4.56	49.56	0.01	-0.07
49.39	-126.19	69	9.97	32.08	24.68	83.87	4.48	48.62	0.01	-0.09
49.39	-126.19	71	9.94	32.09	24.69	83.96	4.41	47.83	0.01	-0.13
49.39	-126.19	73	9.94	32.10	24.70	83.81	4.42	47.97	0.01	-0.10
49.40	-126.14	44	10.07	31.96	24.57	91.31	4.11	44.70	0.29	-0.30
49.40	-126.14	47	10.05	31.97	24.58	91.11	4.09	44.48	0.19	-0.29
49.40	-126.14	50	10.04	31.98	24.59	90.71	4.24	46.07	0.12	-0.29
49.40	-126.14	52	10.04	31.99	24.59	90.61	4.27	46.45	0.09	-0.29
49.40	-126.14	54	10.02	32.00	24.60	90.47	4.27	46.36	0.06	-0.28
49.40	-126.14	56	9.98	32.00	24.61	90.39	4.02	43.66	0.05	-0.30
49.40	-126.14	57	9.98	32.02	24.63	90.30	4.28	46.45	0.04	-0.28
49.40	-126.14	60	9.94	32.04	24.65	89.90	4.25	46.14	0.03	-0.28
49.40	-126.14	61	9.92	32.04	24.66	89.90	4.19	45.47	0.02	-0.27
49.40	-126.14	66	9.81	32.07	24.70	89.34	3.90	42.18	0.01	-0.29
49.40	-126.14	67	9.79	32.08	24.71	89.34	3.87	41.82	0.01	-0.28
49.40	-126.14	69	9.78	32.08	24.71	89.01	3.82	41.36	0.01	-0.29
49.40	-126.14	77	9.47	32.14	24.81	90.85	3.24	34.77	0.01	-0.33
49.40	-126.14	79	9.31	32.19	24.87	90.94	2.91	31.18	0.01	-0.33
49.40	-126.14	81	9.26	32.21	24.89	90.95	2.73	29.20	0.01	-0.35
49.40	-126.14	83	9.21	32.22	24.91	90.88	2.72	29.04	0.01	-0.34
49.40	-126.14	85	9.20	32.22	24.91	91.42	2.73	29.16	0.01	-0.35
49.40	-126.14	87	9.19	32.22	24.91	91.43	2.71	28.94	0.01	-0.35
49.40	-126.14	89	9.18	32.25	24.94	91.59	2.49	26.60	0.01	-0.34
49.40	-126.14	121	9.02	32.32	25.02	87.91	2.29	24.43	0.01	-0.34
49.41	-126.13	28	10.38	31.84	24.42	93.67	4.55	49.79	4.62	-0.32
49.41	-126.13	31	10.32	31.86	24.44	92.83	4.46	48.75	3.11	-0.32

49.41	-126.13	34	10.26	31.88	24.47	92.54	4.34	47.37	2.11	-0.31
49.41	-126.13	38	10.19	31.92	24.52	92.45	4.08	44.46	1.06	-0.31
49.41	-126.13	40	10.18	31.92	24.52	92.81	4.04	44.10	0.81	-0.36
49.41	-126.13	43	10.15	31.93	24.53	92.55	4.00	43.59	0.47	-0.32
49.41	-126.13	46	10.09	31.94	24.55	92.29	4.01	43.64	0.34	-0.32
49.41	-126.13	48	10.05	31.95	24.57	91.94	3.99	43.37	0.24	-0.32
49.41	-126.13	50	9.96	31.99	24.61	91.47	3.84	41.71	0.18	-0.32
49.41	-126.13	52	9.93	32.00	24.63	92.06	3.79	41.13	0.14	-0.32
49.41	-126.13	54	9.91	32.01	24.63	91.80	3.80	41.17	0.10	-0.32
49.41	-126.13	56	9.93	32.03	24.65	90.79	4.02	43.58	0.07	-0.31
49.41	-126.13	60	9.90	32.03	24.65	89.68	4.00	43.40	0.04	-0.29
49.41	-126.13	61	9.87	32.05	24.67	89.58	3.96	42.90	0.03	-0.30
49.41	-126.13	64	9.88	32.07	24.68	89.14	4.10	44.49	0.02	-0.28
49.41	-126.13	67	9.82	32.09	24.71	87.93	4.06	43.92	0.01	-0.27
49.41	-126.13	69	9.79	32.10	24.72	86.63	3.96	42.77	0.01	-0.27
49.41	-126.13	71	9.67	32.11	24.75	86.36	3.64	39.28	0.01	-0.29
49.41	-126.13	73	9.53	32.12	24.78	87.85	3.33	35.84	0.01	-0.33
49.41	-126.13	75	9.47	32.14	24.81	90.77	3.14	33.73	0.01	-0.33
49.41	-126.13	77	9.40	32.15	24.83	90.87	3.12	33.47	0.01	-0.33
49.41	-126.13	79	9.30	32.17	24.85	91.97	3.09	33.11	0.01	-0.35
49.41	-126.13	84	9.21	32.22	24.91	93.29	2.81	30.00	0.01	-0.34
49.41	-126.13	85	9.20	32.23	24.92	93.15	2.73	29.19	0.01	-0.35
49.41	-126.13	87	9.17	32.24	24.93	92.76	2.62	27.97	0.01	-0.34
49.41	-126.13	91	9.10	32.27	24.97	91.92	2.49	26.56	0.01	-0.34
49.41	-126.13	113	9.00	32.32	25.02	91.65	2.34	24.96	0.01	-0.35
49.41	-126.13	119	8.99	32.33	25.03	91.29	2.34	24.92	0.01	-0.35
49.41	-126.13	126	8.98	32.34	25.04	90.99	2.39	25.48	0.01	-0.37
49.41	-126.13	129	8.97	32.34	25.04	91.73	2.47	26.25	0.01	-0.37
49.41	-126.13	130	8.97	32.33	25.04	91.64	2.49	26.51	0.01	-0.15
49.41	-126.13	143	8.97	32.36	25.06	90.44	2.49	26.46	0.01	-0.35
49.41	-126.13	145	8.97	32.36	25.06	89.97	2.48	26.40	0.01	-0.36
49.41	-126.13	152	8.97	32.36	25.06	89.15	2.45	26.05	0.01	-0.34
49.41	-126.13	155	8.97	32.36	25.06	87.88	2.41	25.63	0.01	-0.34
49.41	-126.13	157	8.97	32.37	25.06	87.64	2.40	25.50	0.01	-0.34

49.42	-126.11	46	10.01	31.98	24.59	91.51	3.85	41.88	0.56	-0.32
49.42	-126.11	48	10.00	31.98	24.60	90.51	3.83	41.58	0.42	-0.31
49.42	-126.11	49	9.99	31.98	24.60	89.51	3.77	40.97	0.23	-0.61
49.42	-126.11	52	9.91	32.00	24.63	89.65	3.80	41.22	0.21	-0.34
49.42	-126.11	54	9.88	32.03	24.65	91.05	3.70	40.07	0.15	-0.31
49.42	-126.11	85	8.96	32.19	24.93	95.03	3.09	32.85	0.01	-0.35
49.43	-126.08	5	11.99	30.87	23.38	93.52	5.68	63.84	529.72	-0.05
49.43	-126.08	6	11.81	31.03	23.54	94.52	5.49	61.62	371.93	-0.10
49.43	-126.08	8	11.64	31.19	23.70	95.51	5.31	59.48	211.39	-0.18
49.43	-126.08	10	11.50	31.35	23.84	95.76	5.19	58.01	135.55	-0.21
49.43	-126.08	12	11.35	31.42	23.93	96.06	5.13	57.15	91.93	-0.23
49.43	-126.08	14	11.17	31.50	24.02	96.34	5.05	56.07	64.36	-0.25
49.43	-126.08	16	10.92	31.63	24.17	96.57	4.91	54.24	48.11	-0.30
49.43	-126.08	18	10.84	31.67	24.21	96.31	4.86	53.70	35.87	-0.30
49.43	-126.08	20	10.79	31.69	24.24	96.11	4.82	53.19	26.83	-0.31
49.43	-126.08	22	10.68	31.73	24.29	95.74	4.74	52.13	20.29	-0.32
49.43	-126.08	24	10.55	31.78	24.35	95.09	4.63	50.78	15.42	-0.32
49.43	-126.08	26	10.46	31.81	24.38	94.68	4.53	49.61	11.67	-0.33
49.43	-126.08	28	10.41	31.84	24.42	94.55	4.41	48.26	8.78	-0.34
49.43	-126.08	30	10.33	31.86	24.45	94.36	4.32	47.25	6.56	-0.34
49.43	-126.08	32	10.30	31.87	24.46	94.31	4.25	46.41	4.97	-0.34
49.43	-126.08	34	10.25	31.90	24.49	94.11	4.16	45.43	3.74	-0.34
49.43	-126.08	36	10.21	31.91	24.51	93.85	4.08	44.46	2.82	-0.34
49.43	-126.08	38	10.16	31.93	24.53	93.50	3.98	43.37	2.12	-0.34
49.43	-126.08	40	10.05	31.94	24.55	93.36	4.00	43.49	1.59	-0.34
49.43	-126.08	42	9.96	31.95	24.58	94.59	4.05	43.91	1.18	-0.35
49.43	-126.08	44	9.91	31.96	24.60	94.87	4.03	43.74	0.89	-0.35
49.43	-126.08	46	9.93	31.99	24.61	94.14	3.88	42.12	0.68	-0.35
49.43	-126.08	48	9.93	32.01	24.63	91.11	3.68	39.93	0.52	-0.33
49.43	-126.08	50	9.91	32.01	24.64	90.30	3.64	39.47	0.40	-0.33
49.43	-126.08	52	9.87	32.02	24.65	90.44	3.65	39.56	0.29	-0.33
49.43	-126.08	54	9.86	32.03	24.65	90.62	3.65	39.53	0.21	-0.33

49.43	-126.08	56	9.83	32.03	24.66	90.77	3.62	39.19	0.16	-0.33
49.43	-126.08	58	9.80	32.04	24.68	91.10	3.62	39.13	0.11	-0.33
49.43	-126.08	59	9.74	32.05	24.69	92.49	3.64	39.36	0.08	-0.34
49.43	-126.08	61	9.70	32.06	24.70	93.55	3.63	39.22	0.06	-0.34
49.43	-126.08	63	9.60	32.07	24.73	94.30	3.69	39.72	0.05	-0.35
49.43	-126.08	65	9.55	32.07	24.74	94.64	3.67	39.50	0.04	-0.35
49.43	-126.08	67	9.50	32.08	24.75	94.84	3.68	39.52	0.03	-0.35
49.43	-126.08	69	9.48	32.08	24.76	94.89	3.65	39.23	0.02	-0.35
49.43	-126.08	71	9.41	32.09	24.78	94.93	3.61	38.71	0.02	-0.36
49.43	-126.08	73	9.23	32.11	24.82	94.98	3.57	38.09	0.02	-0.36
49.43	-126.08	75	9.12	32.13	24.86	95.05	3.50	37.28	0.01	-0.36
49.43	-126.08	77	9.07	32.15	24.87	95.08	3.41	36.37	0.01	-0.36
49.43	-126.08	79	9.05	32.16	24.89	95.07	3.33	35.48	0.01	-0.36
49.43	-126.08	81	8.99	32.16	24.90	95.14	3.27	34.72	0.01	-0.36
49.43	-126.08	83	8.93	32.18	24.93	95.06	3.09	32.79	0.01	-0.36
49.43	-126.08	85	8.91	32.22	24.95	94.74	2.84	30.19	0.01	-0.36
49.43	-126.08	87	8.90	32.23	24.97	94.77	2.74	29.11	0.01	-0.36
49.43	-126.08	89	8.92	32.24	24.98	94.75	2.68	28.45	0.01	-0.35
49.43	-126.08	94	8.92	32.27	24.99	94.40	2.39	25.39	0.01	-0.35
49.43	-126.08	95	8.93	32.27	25.00	94.27	2.30	24.47	0.01	-0.35
49.43	-126.08	97	8.92	32.28	25.00	94.21	2.21	23.52	0.01	-0.36
49.43	-126.08	99	8.92	32.28	25.01	94.20	2.19	23.25	0.01	-0.36
49.43	-126.08	101	8.92	32.29	25.01	94.17	2.16	22.92	0.01	-0.35
49.43	-126.08	103	8.92	32.29	25.01	94.14	2.11	22.39	0.01	-0.35
49.43	-126.08	105	8.92	32.30	25.02	94.09	2.05	21.83	0.01	-0.36
49.43	-126.08	107	8.92	32.30	25.02	94.04	1.97	20.93	0.01	-0.36
49.43	-126.08	109	8.92	32.31	25.02	93.86	1.90	20.16	0.01	-0.35
49.43	-126.08	111	8.93	32.31	25.02	93.67	1.87	19.93	0.01	-0.36
49.43	-126.08	115	8.93	32.31	25.03	93.49	1.76	18.69	0.01	-0.35
49.43	-126.08	117	8.93	32.32	25.03	93.36	1.73	18.38	0.01	-0.35
49.43	-126.08	119	8.93	32.32	25.03	93.27	1.72	18.33	0.01	-0.35
49.43	-126.08	121	8.93	32.32	25.04	92.23	1.79	19.01	0.01	-0.35
49.43	-126.08	123	8.94	32.33	25.04	93.08	1.86	19.81	0.01	-0.34
49.43	-126.08	125	8.95	32.34	25.05	92.91	2.05	21.79	0.01	-0.36

49.43	-126.08	127	8.96	32.35	25.05	93.40	2.32	24.73	0.01	-0.36
49.43	-126.08	129	8.96	32.35	25.06	93.77	2.37	25.21	0.01	-0.35
49.43	-126.08	131	8.96	32.36	25.06	93.39	2.42	25.79	0.01	-0.36
49.43	-126.08	133	8.96	32.36	25.06	93.37	2.46	26.17	0.01	-0.35
49.43	-126.08	135	8.96	32.37	25.07	92.75	2.49	26.50	0.01	-0.35
49.43	-126.08	137	8.96	32.37	25.07	91.56	2.50	26.65	0.01	-0.36
49.43	-126.08	139	8.96	32.38	25.07	91.35	2.52	26.85	0.01	-0.35
49.43	-126.08	141	8.96	32.38	25.07	91.42	2.51	26.71	0.01	-0.35
49.43	-126.08	143	8.96	32.38	25.08	90.63	2.42	25.76	0.01	-0.34
49.43	-126.08	145	8.96	32.38	25.08	88.44	2.32	24.66	0.01	-0.35
49.43	-126.08	147	8.96	32.38	25.08	87.78	2.27	24.12	0.01	-0.34
49.43	-126.08	149	8.96	32.38	25.08	86.89	2.21	23.47	0.01	-0.34
49.43	-126.08	151	8.96	32.38	25.08	86.02	2.17	23.09	0.01	-0.35
49.43	-126.08	153	8.96	32.38	25.08	85.13	2.12	22.59	0.01	-0.34
49.43	-126.08	155	8.96	32.39	25.08	84.49	2.11	22.40	0.01	-0.35
49.43	-126.08	157	8.96	32.39	25.08	84.72	2.10	22.34	0.01	-0.36
49.43	-126.06	8	11.83	31.04	23.54	93.55	5.46	61.29	214.27	-0.06
49.43	-126.06	13	11.41	31.41	23.91	95.85	5.16	57.49	85.46	-0.26
49.43	-126.06	21	10.62	31.66	24.24	96.20	4.84	53.14	24.90	-0.34
49.43	-126.06	32	10.24	31.84	24.45	95.20	4.41	48.17	5.39	-0.34
49.43	-126.06	34	10.22	31.85	24.46	95.14	4.38	47.81	4.33	-0.35
49.43	-126.06	36	10.16	31.88	24.49	94.97	4.30	46.83	3.32	-0.35
49.43	-126.06	38	10.11	31.89	24.51	95.11	4.27	46.46	2.56	-0.34
49.43	-126.06	40	10.12	31.92	24.53	94.59	4.07	44.35	1.98	-0.35
49.43	-126.06	42	10.10	31.95	24.55	94.07	3.93	42.82	1.52	-0.35
49.43	-126.06	44	10.05	31.96	24.57	93.62	3.88	42.09	1.15	-0.34
49.43	-126.06	46	9.97	31.98	24.60	93.91	3.86	41.93	0.88	-0.34
49.43	-126.06	48	9.84	31.98	24.62	92.85	3.96	42.78	0.67	-0.35
49.43	-126.06	50	9.75	31.98	24.64	94.99	4.05	43.84	0.51	-0.35
49.43	-126.06	52	9.83	32.02	24.65	95.03	3.85	41.73	0.37	-0.34
49.43	-126.06	58	9.69	32.03	24.69	93.34	3.79	40.92	0.16	-0.34
49.43	-126.06	59	9.60	32.03	24.69	94.47	3.91	42.14	0.12	-0.37
49.43	-126.06	61	9.64	32.05	24.71	94.74	3.78	40.71	0.10	-0.33

49.43	-126.06	63	9.57	32.05	24.72	94.76	3.80	40.93	0.07	-0.35
49.43	-126.06	65	9.54	32.06	24.73	94.83	3.77	40.48	0.06	-0.36
49.43	-126.06	67	9.49	32.06	24.74	94.82	3.76	40.39	0.05	-0.35
49.43	-126.06	69	9.39	32.06	24.76	94.85	3.79	40.59	0.04	-0.34
49.43	-126.06	71	9.25	32.09	24.80	95.07	3.73	39.88	0.03	-0.33
49.43	-126.06	75	9.07	32.12	24.85	94.97	3.51	37.38	0.02	-0.35
49.43	-126.06	77	9.01	32.13	24.87	94.80	3.34	35.52	0.02	-0.35
49.43	-126.06	79	8.97	32.16	24.90	94.58	3.21	34.10	0.01	-0.35
49.43	-126.06	81	8.93	32.17	24.91	94.70	3.08	32.71	0.01	-0.35
49.43	-126.06	83	8.89	32.20	24.95	94.55	2.82	29.95	0.01	-0.35
49.43	-126.06	87	8.89	32.24	24.98	93.86	2.39	25.39	0.01	-0.37
49.43	-126.06	106	8.90	32.29	25.02	89.89	1.34	14.20	0.01	-0.34
49.43	-126.06	107	8.90	32.29	25.02	90.13	1.31	13.92	0.01	-0.35
49.38	-126.08	50	10.77	31.46	24.06	93.55	4.78	52.69	0.07	-0.27
49.25	-125.88	5	13.75	28.35	21.10	84.44	6.89	79.26	32.47	0.96
49.25	-125.88	6	13.62	28.44	21.20	85.28	6.71	76.92	24.46	0.74
49.25	-125.88	8	13.43	28.60	21.36	87.97	6.49	74.33	17.75	0.28
49.25	-125.88	10	13.39	28.65	21.40	91.28	6.44	73.72	16.15	0.27
49.25	-125.88	12	13.36	28.66	21.42	91.59	6.42	73.41	14.49	0.27
49.25	-125.88	14	13.36	28.68	21.44	91.51	6.41	73.31	11.22	0.31
49.25	-125.88	16	13.18	28.89	21.63	91.78	6.36	72.59	7.73	0.19
49.25	-125.88	18	13.10	29.09	21.80	91.96	6.31	71.99	5.05	0.18
49.25	-125.88	20	13.11	29.13	21.83	91.50	6.32	72.08	3.27	0.20
49.25	-125.88	22	13.11	29.14	21.84	90.84	6.32	72.10	2.12	0.20
49.25	-125.88	24	13.10	29.16	21.85	90.66	6.32	72.11	1.35	0.23
49.25	-125.88	26	13.10	29.17	21.86	90.42	6.32	72.15	0.85	0.24
49.25	-125.88	28	13.07	29.22	21.91	90.18	6.33	72.24	0.54	0.31
49.25	-125.88	30	13.03	29.30	21.97	90.17	6.34	72.26	0.34	0.30
49.25	-125.88	32	13.01	29.34	22.01	89.74	6.33	72.19	0.22	0.27
49.25	-125.88	34	12.97	29.40	22.07	89.66	6.33	72.19	0.14	0.33
49.25	-125.88	36	12.94	29.46	22.11	89.45	6.32	72.02	0.09	0.30
49.25	-125.88	38	12.89	29.54	22.18	89.42	6.32	71.95	0.06	0.35

49.25	-125.88	40	12.85	29.59	22.23	89.34	6.34	72.18	0.04	0.32
49.25	-125.88	42	12.76	29.76	22.39	89.03	6.42	73.05	0.02	0.46
49.25	-125.88	44	12.75	29.79	22.41	89.08	6.44	73.27	0.02	0.47
49.25	-125.88	46	12.74	29.81	22.43	88.74	6.45	73.34	0.01	0.41
49.24	-125.94	5	13.41	29.25	21.87	84.71	7.45	85.61	259.89	1.06
49.24	-125.94	6	13.40	29.26	21.87	84.40	7.46	85.75	176.85	1.17
49.24	-125.94	8	13.37	29.30	21.91	84.40	7.44	85.48	79.57	1.17
49.24	-125.94	10	13.34	29.33	21.94	84.24	7.42	85.17	37.49	1.20
49.24	-125.94	12	13.33	29.33	21.94	84.31	7.38	84.69	18.47	1.17
49.24	-125.94	14	13.32	29.31	21.93	84.46	7.31	83.87	9.60	1.16
49.24	-125.94	16	13.28	29.35	21.96	84.57	7.26	83.22	4.99	1.26
49.24	-125.94	18	13.21	29.39	22.01	84.95	7.13	81.70	2.78	1.27
49.24	-125.94	20	13.18	29.46	22.07	85.22	7.16	81.94	1.48	1.14
49.24	-125.94	22	13.08	29.65	22.24	85.45	7.25	82.90	0.83	1.07
49.24	-125.94	24	12.94	29.80	22.38	85.17	7.18	81.96	0.48	1.08
49.24	-125.94	26	12.83	29.91	22.49	84.99	7.05	80.39	0.28	1.05
49.24	-125.94	28	12.82	29.91	22.49	85.54	7.02	79.95	0.16	1.06
49.24	-125.94	30	12.80	29.92	22.50	86.03	6.98	79.46	0.09	1.07