

Vent fluid parameters												
		Temperature (°C)	Microbial concentration (cells/mL)	Percent Seawater	CH4		Mg	H2	H2S	Location		
Year					μmol/L	pH	mmol/L	μmol/L	mmol/L	Depth (m)	Latitude	Longitude
Axial - Vent												
Dependable	2013	50.0	1.70 × 10 <sup>5</sup>	90%	21	6.2	48.4	0.30	0.016	1,913	45.8799	-129.8029
Marker113	2013	24.8	4.60 × 10 <sup>5</sup>	96%	17	6.2	51.5	1.4	0.75	1,520	45.9227	-129.9882
Marker113	2014	24.3	6.80 × 10 <sup>5</sup>	96%	39	5.8	50.0	1.0	0.57	1,518	45.9227	-129.9882
Marker113	2015	25.4	1.50 × 10 <sup>6</sup>	96%	23	6.6	51.4	0.30	0.59	1,520	45.9227	-129.9882
Skadi	2013	35.6	5.65 × 10 <sup>5</sup>	90%	4.5	6.2	48.7	1.0	0.087	1,562	45.9234	-129.9829
Escargot	2014	6.6	NA	97%	2.1	5.8	52.6	0.047	0.035	1,517	45.9264	-129.9799
El Guapo	2013	25.7	1.68 × 10 <sup>5</sup>	92%	2.9	5.4	49.8	0.30	0.22	1,502	45.9266	-129.9795
Boca	2013	6.8	8.50 × 10 <sup>5</sup>	98%	1.6	6.9	53.0	2.8	0.0077	1,517	45.9277	-129.9825
Anemone	2013	28.2	4.10 × 10 <sup>5</sup>	89%	15	5.5	47.6	14	1.1	1,542	45.9332	-130.0137
Marker33	2013	27.3	4.20 × 10 <sup>5</sup>	87%	19	5.5	47.0	1.5	0.56	1,516	45.9332	-129.9822
Marker33	2014	18.5	3.90 × 10 <sup>5</sup>	91%	6.6	5.6	49.2	1.5	0.27	1,514	45.9332	-129.9822
N3Area	2013	18.9	2.57 × 10 <sup>5</sup>	98%	66	5.0	53.0	0.053	0.51	1,523	45.9437	-129.9852
Axial - Plume												
Anemone Plume	2015	NA	NA	100%	NA	NA	NA	NA	NA	1,500	45.9336	-130.0137
Axial - Background												
Deep seawater	2015	2.0	2.50 × 10 <sup>4</sup>	100%	0.0020	7.8	53.6	0.0020	0	1,520	46.2739	-129.7955
GordaRidge - Vent												
Mt Edwards	2019	40.0	5.14 × 10 <sup>4</sup>	83%	10	6.0	43.6	130	1.0	2,707	42.7546	-126.7090
Venti Latte	2019	11.0	1.11 × 10 <sup>5</sup>	97%	0.90	6.4	52.1	NA	NA	2,708	42.7548	-126.7089
Candelabra	2019	79.0	5.51 × 10 <sup>4</sup>	88%	24	5.5	36.5	22	NA	2,730	42.7551	-126.7096
Sir Ventsalot	2019	72.0	5.30 × 10 <sup>4</sup>	98%	NA	NA	52.0	NA	NA	2,732	42.7612	-126.7055
GordaRidge - Plume												
Mt Edwards Plume	2019	1.8	NA	100%	NA	NA	NA	NA	NA	2,707	42.7547	-126.7092
Candelabra Plume	2019	1.7	7.69 × 10 <sup>4</sup>	100%	NA	NA	NA	NA	NA	2,725	42.7551	-126.7094
GordaRidge - Background												
Deep seawater	2019	1.8	3.91 × 10 <sup>4</sup>	100%	NA	7.8	53.0	NA	NA	2,010	42.7495	-126.7103
Shallow seawater	2019	8.6	NA	100%	NA	NA	53.0	NA	NA	150	42.7546	-126.7430
Near vent BW	2019	1.7	5.20 × 10 <sup>4</sup>	100%	NA	7.8	53.0	NA	NA	2,745	42.7550	-126.7099
VonDamm - Vent												
X18	2020	48.0	1.11 × 10 <sup>5</sup>	52%	1,300	7.0	28.0	NA	2.1	2,377	18.3748	-81.7974
ShrimpHole	2020	21.0	NA	96%	220	7.7	51.8	5.5	NA	2,376	18.3749	-81.7974
MustardStand	2020	108.0	5.67 × 10 <sup>4</sup>	36%	1,800	5.6	19.4	9,800	1.8	2,374	18.3751	-81.7975
Rav2	2020	94.0	NA	33%	1,900	5.8	18.0	10,000	1.4	2,390	18.3751	-81.7972
OldManTree	2020	121.6	NA	26%	2,000	5.7	13.7	12,000	1.8	2,376	18.3751	-81.7977
Rav2	2020	98.2	NA	33%	1,900	5.8	18.0	10,000	1.4	2,389	18.3751	-81.7972
ArrowLoop	2020	137.0	1.04 × 10 <sup>4</sup>	34%	1,900	5.7	18.1	12,000	1.7	2,309	18.3767	-81.7980
WhiteCastle	2020	108.0	NA	17%	2,300	5.5	8.90	14,000	2.0	2,307	18.3770	-81.7981
Bartizan	2020	129.0	1.62 × 10 <sup>4</sup>	42%	1,600	5.8	22.7	9,400	1.6	2,307	18.7981	-81.3779
VonDamm - Plume												
Plume	2020	4.2	1.65 × 10 <sup>4</sup>	NA	NA	NA	NA	NA	NA	1,979	18.3776	-81.7993
VonDamm - Background												
BSW	2020	4.2	3.47 × 10 <sup>4</sup>	100%	NA	NA	NA	NA	NA	2,400	18.3742	-81.7815
Piccard - Vent												
Shrimpcalypse	2020	85.0	2.39 × 10 <sup>5</sup>	82%	28	5.1	43.9	0	NA	4,945	18.5467	-81.7178
LotsOShrimp	2020	19.0	5.39 × 10 <sup>4</sup>	100%	12	6.3	53.5	1.3	NA	4,967	18.5468	-81.7184
LotsOShrimp	2020	36.0	5.39 × 10 <sup>4</sup>	95%	11	5.9	51.0	23,000	NA	4,967	18.5468	-81.7184
Piccard - Plume												
Plume	2020	4.5	5.14 × 10 <sup>4</sup>	NA	NA	NA	NA	NA	NA	4,944	18.5468	-81.7182
Piccard - Background												
BSW	2020	4.5	1.19 × 10 <sup>4</sup>	100%	NA	NA	53.7	NA	NA	4,776	18.5480	-81.7182
NA represents no data, bd indicates below detection												