

Table of projected relative sea-level rise by year 2100 for locations of tide gauge and GPS stations in British Columbia

Addendum to Thomson, R.E., Bornhold, B.D., and Mazzotti, S. 2008. An examination of the factors affecting relative and absolute sea level in coastal British Columbia. Can. Tech. Rep. Hydrogr.Ocean Sci. 260: v + 49 p. Available online at <http://www.dfo-mpo.gc.ca/Library/335209.pdf>.

Station: Name: Geographic name of tide gauge (first 21 rows) and GPS (last 21 rows) locations; ID: Four-character abbreviation; Lat. and Lon.: Latitude and Longitude of station; T: Duration of data time series.

Uplift rate: V_{up} and σ : Vertical velocity (positive up) and standard error based on relative sea-level rates corrected for eustatic sea level rise (tide gauge stations) or on absolute trends of vertical motion (GPS stations).

RSL2100 Mean Scenario: Scenario using IPCC-AR4 mean eustatic sea-level rise of 30 ± 12 cm by year 2100; Projected relative sea-level rise is given at 50% (mean), 5% (low), and 95% (high) values to account for uncertainties in vertical land motion and future eustatic sea level rise.

RSL2100 High Scenario: Scenario using high predicted eustatic sea level rise of 100 ± 30 cm by year 2100. Projected relative sea-level rise is given at 50% (mean), 5% (low), and 95% (high) values to account for uncertainties in vertical land motion and future eustatic sea level rise.

Final Cat.: Quality category of projected relative sea-level rise from 0 (lowest) to 5 (highest), based on duration of data time series, data noise, compatibility of different datasets, and station locations.

Name	Station				Uplift Rate		RSL2100 Mean Scenario			RSL2100 High Scenario			Final Cat.
	ID	Lat. °N	Lon. °E	T yr	V_{up} (mm/yr)	σ	mean (cm)	low (cm)	high (cm)	mean (cm)	low (cm)	high (cm)	
Prince Rupert	prup	54.317	-130.324	77	0.5	0.2	25	13	37	95	65	125	2
Queen Charlotte City	qucc	53.252	-132.072	45	2.2	0.3	10	-3	22	79	49	110	2
Bella Bella	bela	52.163	-128.143	45	2.3	0.4	9	-4	22	78	48	109	2
Winter Harbour	winh	50.513	-128.029	18	1.7	0.8	14	-3	31	84	51	116	1

Zeballos	zebo	49.979	-126.846	13	5.1	1.6	-17	-44	10	52	13	91	0
Gold River	golr	49.679	-126.126	13	0.7	1.8	24	-6	54	93	52	134	0
Tofino	tfno	49.154	-125.913	58	2.7	0.3	5	-7	17	75	44	105	4
Port Alberni	palb	49.233	-124.814	40	2.5	0.6	7	-8	22	76	45	108	2
Bamfield	bmfd	48.836	-125.136	37	1.6	0.4	15	2	28	85	54	115	1
Port Renfrew	pren	48.555	-124.421	27	-0.4	0.6	34	19	49	103	72	135	1
Port Hardy	phar	50.722	-127.489	43	2.5	0.4	7	-6	20	76	46	107	1
Alert Bay	abay	50.587	-126.931	33	3.5	0.4	-2	-16	11	67	36	98	2
Campbell River	cblr	50.042	-125.247	37	4.1	0.5	-8	-22	6	62	30	93	1
Little River	litr	49.741	-124.923	25	3.0	0.6	2	-13	17	72	40	103	1
Point Atkinson	patk	49.337	-123.253	73	1.3	0.2	18	6	30	88	57	118	2
Vancouver	vanc	49.287	-123.110	58	1.2	0.2	19	7	31	89	58	119	2
New Westminster	nwes	49.200	-122.910	38	4.6	2.0	-13	-45	20	57	14	100	1
Fulford Harbour	fulh	48.769	-123.451	40	1.4	0.2	17	5	29	87	57	117	2
Patricia Bay	pbay	48.654	-123.452	31	1.7	0.8	14	-3	31	84	51	116	2
Victoria	vict	48.424	-123.371	98	1.2	0.2	19	7	31	89	58	119	4
Sooke	sook	48.370	-123.726	12	3.3	0.9	-1	-19	18	69	36	102	0
Albert Head (Colwood)	ALBH	48.390	-123.487	10.8	0.6	0.7	25	9	41	94	63	126	4
Bamfield	BAMF	48.835	-125.135	4.5	3.9	1.5	-6	-31	20	64	26	101	2

Langley	BCLC	49.104	-122.657	3.9	-0.7	0.9	37	19	55	107	74	140	1
Richmond	BCLI	49.115	-123.147	3.9	-2.1	0.9	50	32	68	120	87	153	1
Telegraph Cove	BCOV	50.544	-126.843	6	4.0	1.0	-7	-26	12	63	29	96	3
Port Hardy	BCPH	50.686	-127.375	5.5	3.9	1.3	-6	-29	17	64	28	100	2
Surrey	BCSF	49.192	-122.860	3.9	0.7	0.9	24	6	42	93	60	126	1
Vancouver	BCVC	49.276	-123.089	3.8	-0.3	1.0	33	14	52	103	69	136	1
Eliza (W of Zeballos)	ELIZ	49.873	-127.123	6.2	1.0	1.1	21	1	41	91	56	125	2
Esquimalt	ESQ1	48.429	-123.429	6.6	1.4	0.8	17	1	34	87	55	119	2
Holberg	HOLB	50.640	-128.135	10.8	2.4	0.9	8	-10	26	78	45	111	3
Nanoose Bay	NANO	49.295	-124.086	10.8	2.1	0.8	11	-6	28	80	48	113	5
Nootka Island	NTKA	49.592	-126.617	6.2	3.2	1.0	1	-18	20	70	37	104	2
Patricia Bay	PGC1	48.648	-123.451	7.1	1.4	0.8	17	1	34	87	55	119	4
Port Alberni	PTAL	49.256	-124.861	4.5	3.7	1.0	-4	-23	15	66	32	99	3
Chemainus	SC04	48.923	-123.704	3.4	2.0	1.3	12	-11	35	81	45	117	1
Uclulet	UCLU	48.926	-125.542	10.8	2.6	0.8	6	-11	23	76	43	108	5
<i>Prince Rupert</i>	<i>BCPR</i>	<i>54.277</i>	<i>-130.435</i>	<i>2.0</i>	<i>-1.7</i>	<i>1.7</i>	<i>46</i>	<i>18</i>	<i>75</i>	<i>116</i>	<i>76</i>	<i>155</i>	<i>1</i>
<i>Sandspit</i>	<i>BCSS</i>	<i>53.254</i>	<i>-131.807</i>	<i>1.8</i>	<i>2.0</i>	<i>1.9</i>	<i>12</i>	<i>-19</i>	<i>43</i>	<i>81</i>	<i>40</i>	<i>123</i>	<i>2</i>
<i>Bella Bella</i>	<i>BCDI</i>	<i>52.158</i>	<i>-128.110</i>	<i>1.7</i>	<i>3.8</i>	<i>2.0</i>	<i>-5</i>	<i>-38</i>	<i>28</i>	<i>65</i>	<i>22</i>	<i>107</i>	<i>1</i>