

TABLE DR1. DEPTH OF 1700 HORIZON AND ESTIMATED 1700 CASCADIA COSEISMIC SUBSIDENCE

Latitude (°N)	Longitude (°W)	1700 horizon depth (m)	Estimated subsidence (m)	Data source [†]	Means of estimation
VANCOUVER ISLAND					
Deserted Lake, Hisnit Inlet, Nootka Sound					
49.767	126.5		0.1 ± 0.4 [‡]	1	diatoms in lake core
Port Alberni					
49.259	124.813	0.29	0 ± 0.5 [§]	2	pm ac; pm bc (via 2.8 cm sd)
49.257	124.821	0.56	0 ± 0.5 [§]	2	pm ac; pm bc (via 5.6 cm sd)
49.256	124.823	0.67	0 ± 0.5 [§]	2	pm ac; pm bc (via 7 cm sd)
49.254	124.821	0.56	0.3 ± 0.5 [§]	2	pm ac; Triglochin, mp bc (via 2.5 cm sd)
49.254	124.838	0.4	0 ± 0.5 [§]	2	pm ac; pm bc (via 5 cm sd)
49.253	124.814	0.59	0 ± 0.5 [§]	2	pm ac; pm bc (via 1.8 cm sd)
49.251	124.835	0.35	0.3 ± 0.5 [§]	2	pm ac; Triglochin, mp bc (via 3.5 cm sd)
49.25	124.833		0 ± 0.5	2	Triglochin, mp ac; Triglochin, mp bc
49.2495	124.831	0.26	0 ± 0.5 [§]	2	pm ac; pm bc (via 1.8 cm sd)
Tofino area					
49.15	125.866	0.34	0.55 ± 0.25	3	sd, pm ac; mp bc. Foraminifera: QFA
49.148	125.857	0.27		4	
49.117	125.872	0.32		4	
49.113	125.877	0.19		4	
49.105	125.817	0.22		4	
49.101	125.826	0.5	0.55 ± 0.55 [#]	4	TS. Juncus, pm ac; Carex, rm bc
49.098	125.853	0.27	0.71 ± 0.3	3,5	foraminifera: Q-mode factor analysis
49.097	125.848	0.3		4	
49.097	125.846	0.3	0.5 ± 0.3	6	pm, umm pollen ac; p, fet pollen bc
49.095	125.844	0.3	0.69 ± 0.3	6	pm, lm pollen ac; p, hm pollen bc (via 3 cm sd)
49.095	125.843	0.26	0.65 ± 0.3	6	pm, lmm pollen ac; p, hhm pollen bc (via ~ 2cm sd)
49.09	125.73	0.17		4	
49.077	125.747	0.2		4	
48.952	125.57	0.15		4	
48.948	125.568	0.13		4	
WASHINGTON					
Quinault River					
47.346	47.346		0 ± 0.5	7	Carex, rm ac; Carex, rm bc
Copalis River Estuary					
47.127	124.162		0.95 ± 0.55 ^{††}	8	Triglochin, rm ac; Distichlis, mp bc
47.12	124.162	0.95	1.45 ± 0.65 ^{††}	9	Triglochin, pm/rm ac; Spruce, Western red cedar, p bc
47.117	124.167		1.7 ± 0.5 ^{§§}	8	Triglochin, rm ac; Spruce, p bc
Grays Harbor					
47.038	124.03		2.0 ± 0.4	8	m ac; Spruce, mp bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
46.996	124.136		1.65 ± 0.55 ^{§§}	10	rm ac; mp bc
46.994	124.139		1.75 ± 0.45 [#]	10	rm ac; Spruce, pm bc
46.978	123.775		1.85 ± 0.4 ^{††}	10	TS. rm ac; Spruce, pm bc
46.975	123.778		2.05 ± 0.35 ^{††}	8	m ac; Spruce, mp bc
46.975	123.778		1.85 ± 0.4 ^{††}	11	rm, 8% org, 22% fr. diatoms ac; Spruce, pm, 43% org, 66% fr. diatoms bc
46.945	123.723		1.9 ± 0.4 ^{††}	8	m ac; Spruce, pm bc
46.943	123.732		1.5 ± 0.4 [#]	8	Carex, rm ac; Spruce, pm bc
46.9	123.985		1.65 ± 0.35 ^{††}	8	m ac; Potentilla, pm bc
46.895	123.987		1.65 ± 0.45 ^{§§}	11	rm, 9% org, 8% fr. diatoms ac; p, 56% org, 52% fr. diatoms bc
46.891	123.849	0.69	0.85 ± 0.3	12	pollen, diatoms, forams: TWINSPAN and DCA analysis
46.891	123.892	0.66		12	
46.89	123.985		1.65 ± 0.35 ^{§§}	8	m ac; Potentilla, mp bc
46.888	123.869	0.6		12	
46.886	123.835	0.39		12	
Willapa Bay					
46.702	123.831	0.75		13	
46.678	123.774	0.45		13	
46.67	123.733		1.8 ± 0.5 ^{††}	8	Carex, rm ac; Spruce, pm bc
46.668	123.807	0.58		13	
46.631	123.919	1.06		13	
46.631	123.917	0.55	1 ± 0.4 [§]	14	tf diatoms ac; hm diatoms bc
46.63	123.909	0.97		13	
46.629	123.907	0.75	1.2 ± 0.4 ^{††}	14	tf diatoms ac; Spruce roots bc
46.628	123.905	0.95		14	
46.628	123.963		2.05 ± 0.45 ^{††}	8	Triglochin, rm ac; Spruce, p bc
46.628	123.91		2.0 ± 0.5	8	m ac; Spruce, pm bc
46.622	123.902	1.2		13	
46.621	123.899	0.95	1.3 ± 0.5 [§]	14	tf/ lowest lm diatoms ac; Spruce bc
46.613	123.898		1.8 ± 0.5 ^{††}	8	Triglochin, rm ac; Spruce, pm bc
46.612	123.892	0.75	1.3 ± 0.5 [§]	14	tf/ lowest lm diatoms ac; Spruce bc
46.611	123.893	0.95		13	
46.596	124.038		1.75 ± 0.5 ^{##}	7	rm ac; mp bc
46.582	124.023		2.25 ± 0.4 ^{††}	8	m ac; Spruce, p bc
46.38	124.016		1.75 ± 0.5 ^{##}	7	rm ac; mp bc
46.352	123.958		2.25 ± 0.4 ^{††}	8	m ac; Spruce, p bc
OREGON					
Columbia River					
46.332	123.698		2.15 ± 0.55 ^{††}	8	m ac; Spruce, pm bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
46.328	123.697		2.15 ± 0.55 ^{††}	8	m ac; Spruce, pm bc
46.253	123.447		2.15 ± 0.75 ^{§§}	10	rm ac; pm ac
46.252	123.445	0.68	0.8 ± 0.7 ^{§§}	10,15	Spruce, pm ac; Spruce, mp bc
46.2315	123.585	1.26		15	
46.223	123.603	1.06		15	
46.227	123.42	1	0.5 ± 0.4 ^{‡‡}	10,15	Scirpus, rm ac; slpm bc
46.222	123.423	1		15	
46.203	123.862	0.66		16	
46.2	123.573	1.3	2.35 ± 0.65 ^{‡‡}	10,17	m ac; Spruce, p bc
46.2	123.572	1.3	2.05 ± 0.65 ^{††}	10,17	rm ac; Spruce, mp bc
46.177	123.748	1.08	2.05 ± 0.65 ^{††}	10	rm ac; Spruce, mp bc
46.177	123.748		1.95 ± 0.65 ^{††}	10	rm ac; mp bc
46.177	123.75	0.9	2.05 ± 0.65 ^{††}	10	TS. rm ac; Spruce, mp bc
46.175	123.748	1.1		10	
46.155	123.862		2.05 ± 0.65 ^{§§}	10,16	rm ac; p bc
46.143	123.79	0.8	1.45 ± 0.75 ^{‡‡}	10	slpm ac; Spruce, pm bc
46.14	123.273	1.04		15	
46.138	123.272		0 ± 0.5	10,15	slpm ac; slpm bc
Necanicum River Estuary					
46.005	123.915	0.7		18	
46.005	123.912		1.1 ± 0.35 ^{††}	10,18	TS. rm ac; pm bc
45.995	123.912	0.62		18	
45.993	123.917	0.48		18	
45.988	123.915	0.55		18	
45.988	123.913		1.1 ± 0.35 ^{††}	10,11	rm, 12% org, 10% fr. diatoms ac; pm, 40% org, 68% fr. diatoms bc
45.984	123.918	0.78		18	
45.983	123.917	0.7		19	
45.983	123.918	0.33		18	
45.982	123.92	0.91		18	
45.982	123.918	0.55		18	
45.982	123.917	0.47		18	
45.982	123.918	0.7		18	
45.981	123.918	1		18	
45.981	123.918	0.76		18	
45.98	123.918		0.5 ± 0.5 ^{‡‡}	10,18	pm, 20% org ac; mp, 37% org bc
45.898	123.953	0.64		19	
Tillamook Bay					
45.56	123.897		1.1 ± 0.4 ^{††}	10,11	TS. slpm ac; shrub roots, mp bc
45.508	123.878	0.55	1.55 ± 0.4 ^{§§}	10,11	TS. rm, 4% org, 8% fr. diatoms ac; mp, 46% org, 72% fr. diatoms bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
45.495	123.93	0.43	1.55 ± 0.4 ^{§§}	10,11	rm, 14% org, 0% fr. diatoms ac; pm, 53% org, 60% fr. diatoms bc
Netarts Bay					
45.642	123.898	0.45		10	
45.508	123.882	0.55		11	
45.494	123.935	0.43		11	
45.432	123.852	0.62		11	
45.418	123.935		1.1 ± 0.4 ^{††}	10,18	TS. Triglochin, rm, 3% org ac; Juncus, mp, 36% org bc
45.411	123.935		0.7 ± 0.6	19	tf/lm pollen, utf/lm diatoms bc; hm pollen, ulm/hm diatoms ac
45.398	123.93		0.6 ± 0.35 [#]	9,17	m ac; pm bc
45.38	123.966	0.56	0.4 ± 0.35	20	tf/lm/hm pollen, ulm/hm diatoms bc; hm pollen, hm/backswamp diatoms ac
45.375	123.972	0.51		21	
45.372	123.963	0.5		18	
45.372	123.965	0.77		21	
45.37	123.963	0.63		18	
45.369	123.957	0.73		18	
45.368	123.977	0.49		21	
45.368	123.958		1.1 ± 0.4 ^{††}	10,18	TS. rm, mostly br. diatoms ac; mp, mostly br. diatoms bc
45.368	123.96	0.59		18	
45.368	123.963	0.56		18	
45.368	123.965	0.6		18	
45.367	123.97	0.56		22	
45.367	123.965		0.45 ± 0.35 ^{††}	10,18	slpm, dominantly fr. diatoms ac; pm, mostly fr., some br. diatoms bc
45.369	123.964	0.56	1.3 ± 0.35 ^{††}	22	br./mar. diatoms, 5-10% org (tf) ac; fr./br./mar. diatoms, 13-27% org (very hm) bc
45.367	123.966	0.5		18	
45.365	123.972	0.79		21	
45.365	123.963	0.75		18	
Nestucca Bay					
45.211	123.943	0.73		18	
45.206	123.93	0.7		18	
45.188	123.948	0.73		18	
45.187	123.95	0.75		18	
45.187	123.952	0.73		18	
45.187	123.948		0.7 ± 0.5 [#]	10,18	rm, 10% org ac; pm, 26% org bc
45.187	123.947		1.2 ± 0.5 ^{††}	10,18	TS. rm ac; mp bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
45.166	123.945	0.61		18	
45.163	123.943	0.6		18	
45.161	123.937	0.76		18	
45.155	123.93	0.32		18	
45.154	123.928	0.93		18	
45.153	123.932	0.73		18	
45.032	123.987	0.5	1.05 ± 0.4 ^{††}	10	Triglochin, rm ac; mp bc.
Siletz Bay					
44.935	123.987	0.92		23	
44.935	123.987	0.4		23	
44.931	124.003	0.85		23	
44.931	124.008	0.85		23	
44.931	124.003	0.47	0.65 ± 0.45 ^{††}	23	slpm to barren m ac; pm bc
44.931	124.008	0.81		23	
44.93	124.008	0.85		23	
44.93	124.008		0.75 ± 0.55 [#]	10,11	rm, 13% org, 14% fr. diatoms ac; pm, 19% org, 58% fr. diatoms bc
44.93	124.003		0.65 ± 0.5 ^{§§}	10,23	rm ac; slpm bc
44.929	124.012	0.44		23	
44.929	123.999	0.81		23	
44.929	123.999	0.95		23	
44.929	124.013	0.59		23	
44.929	124.013	0.51		23	
44.927	124.013	0.59		23	
44.915	123.998	0.89		23	
44.918	124.012		0.5 ± 0.4 ^{‡‡}	10,23	slpm ac; pm bc
44.918	123.998	0.9		23	
44.917	124.012	0.34	0.45 ± 0.35 ^{††}	23	slpm ac; pm bc
44.912	123.999	0.5		18	
44.91	124	0.91		23	
44.908	124		0.55 ± 0.45 [#]	10,23	TS. rm ac; pm bc
44.902	124.007	0.62		23	
44.901	124.027	0.61	0.65 ± 0.4 ^{††}	23	rm ac; pm bc (via 15 cm sd)
44.901	124.027	0.45		23	
44.9	124.027	0.46	0.5 ± 0.4 [#]	23	rm ac; pm bc
44.9	124.028	0.62		18	
44.9	124.027	0.46	0.52 ± 0.4 [#]	23	rm ac; pm bc (via 2 cm sd)
44.899	124.028	0.29	0.5 ± 0.4 [#]	23	rm ac; pm bc
44.898	124.028	0.4	0.5 ± 0.4 [#]	23	rm ac; pm bc
44.898	124.028		0.85 ± 0.35 ^{††}	10,18,23	rm ac; mp bc
44.898	124.028	0.62		18	

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence (m)	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
44.898	124.03	0.57	0.55 ± 0.4 ^{††}	23	rm ac; pm bc (via 5 cm sd)
44.898	124.028	0.48	0.91 ± 0.3 ^{††}	23	rm ac; mp bc (via 1 cm sd)
44.897	124.032	0.5	0.9 ± 0.3 ^{††}	23	rm ac; mp bc
44.897	124.03	0.59		23	
44.897	124.03	0.5		23	
44.897	124.028		0.4 ± 0.35 ^{‡‡}	10,23	slpm ac; pm bc
44.896	124.028	0.35	0.4 ± 0.3 ^{##}	23	slpm ac; pm bc
44.895	124.003	0.63		18	
44.895	123.998		0.55 ± 0.45 [#]	10,11	rm, 9% org, 12% fr. diatoms ac; pm, 21% org, 64% fr. diatoms bc
44.894	124.028	0.39	0.5 ± 0.4 [#]	23	rm ac; pm bc
44.894	124.028	0.19		18	
44.893	124.028	0.4		23	
44.892	124.03	0.43		18	
44.892	124.028	0.35		23	
44.891	124.003	0.8		18	
44.89	124.002	0.63		23	
44.889	123.999	1.17		18	
44.889	124.003	1		23	
44.888	123.998	0.55		23	
44.888	123.995	0.42	0.4 ± 0.3 ^{††}	23	pm ac; mp bc
44.888	124.005	0.8		23	
44.887	123.997	0.79		23	
44.887	124.008	0.44		23	
44.887	124.007	0.72		18	
44.887	123.995	0.44		18	
44.886	123.993	0.56		23	
44.885	123.995	0.75	0.6 ± 0.5 ^{‡‡}	23	rm ac; pm bc
44.883	123.983	0.8		23	
Yaquina Bay					
44.633	123.92	0.38		10	
44.633	123.92		0.5 ± 0.3 [#]	10	slpm ac; mp bc
44.624	124.001	0.37		24	
44.617	124.044	0.74		24	
44.613	124.041	0.72	0 ± 0.5	10,18,24	rm, 14% org, mostly br. diatoms ac; rm, 13% org, mostly br. diatoms bc
44.613	124.034	0.45		24	
44.61	124.042	0.73		18	
44.61	124.042	0.36		18	
44.61	124.042	0.85		18	
44.608	124.042		0.1 ± 0.5 ^{††}	10,23	slpm ac; pm bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
44.601	124.023	0.36		24	
44.599	124.019	0.31		24	
44.597	124.021	0.4		24	
44.597	123.92	0.52		18	
44.596	123.905	0.72		18	
44.596	123.92	0.52		18	
44.595	123.918	0.42		18	
44.595	123.903	0.74		18	
44.595	124.009	0.31		24	
44.595	123.917	0.42		18	
44.594	123.907	0.4		18	
44.593	123.91	0.9		18	
44.593	124.032	0.47		24	
44.592	123.91	0.82		18	
44.592	123.91	0.6		18	
44.592	124.032	0.58		24	
44.589	124.011	0.49	0.3 ± 0.4 [§]	24	rm ac, pm bc
44.578	124.022	0.4		24	
44.577	124.006	0.47	0.5 ± 0.4 [§]	24	rm ac; mp bc
44.575	123.971	0.4	0.5 ± 0.4 ^{††}	10,24	rm ac; mp bc
44.574	123.957	0.42		18	
44.573	124.008	1.12		18	
44.572	123.957		0.3 ± 0.4 ^{##}	10,18	rm ac; pm bc
44.572	124.01	0.75		18	
44.57	124.008		0.1 ± 0.5 ^{††}	10,18,24	slpm, mostly br. diatoms ac; pm, mostly br. diatoms bc
44.57	124.008	0.35		18	
44.569	124.003	0.76		18	
44.568	124.007	0.72		18	
44.56	124	0.8		18	
44.559	124.002	0.74		18	
44.556	123.987	0.9		18	
Alsea Bay					
44.432	124.023	0.43	0 ± 0.5	10,18,25	TS. mp, 41% org ac; mp, 32% org bc
44.431	124.027	0.27		18	
44.423	124.028	0.71		18	
44.422	124.038	0.35		18	
44.42	124.015	0.4		18	
44.419	124.015	0.34		18	
44.418	124.027	0.45		18	
44.418	124.015	0.42	0.2 ± 0.3 ^{††}	10,18,25	mp, 37% org ac; mp, 48% org bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
44.418	124.013	0.53		18	
44.418	124.035	0.65		18	
44.417	124.013	0.45		18	
44.417	124.008	0.45		18	
44.415	124.04	0.4		18	
44.414	123.99	0.54		18	
44.414	124.015	0.46		18	
44.413	124.015		0.4 ± 0.5 ^{‡‡}	10,25	rm ac; slpm bc
44.413	123.998		0.75 ± 0.45 ^{§§}	10,25	pm, 24% org ac; mp, 30% org bc
44.413	123.988	0.56		18	
44.413	124.018	0.33		18	
44.414	124.054	0.63		26	
44.411	124.052	0.62		26	
44.409	124.055	0.6		26	
44.409	124.053	0.73		26	
44.408	124	0.4		18	
44.408	124.034	0.57		26	
44.408	124.039	0.53		26	
44.408	124.048	0.59		26	
44.407	124.048	0.72		26	
44.407	124.043	0.55		26	
44.407	124.032	0.42		26	
44.406	124.044	0.59		26	
44.405	124.038	0.7		26	
44.405	124.033	0.5		26	
Siuslaw					
44.016	123.852	1.62	0.55 ± 0.45 [§]	27	m ac; pm bc
44.015	123.848	0.75	0.8 ± 0.5 [§]	27	slpm ac; mp bc
44.013	123.948	0.75		27	
44.007	123.9	0.9	0.5 ± 0.5 [§]	27	slpm ac; pm bc
44.002	123.993	0.65	0.55 ± 0.45 [§]	27	pm ac; mp bc
44.002	123.993	0.69	0.8 ± 0.5 ^{††}	10,27	slpm, mostly br. diatoms ac; mp, mostly br. diatoms bc
44.001	123.992	1.18	0.5 ± 0.5 [§]	27	slpm ac; pm bc
43.996	124.068		0 ± 0.5 [§]	27	m ac; m bc
43.989	124.045	1.5		27	
43.987	124.077	0.94	0.5 ± 0.4 ^{††}	10,27	mp ac; p bc
43.983	124.013	0.5	0.55 ± 0.45 ^{§§}	10,27	pm ac; mp bc
43.983	124.012	0.7	1.1 ± 0.5 [§]	27	m ac; mp bc
43.982	124.013	1	0.55 ± 0.45 [§]	27	m ac; pm bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
43.967	124.05		0 ± 0.5	10,27	mp, mostly fr., some br. diatoms ac; mp, mostly fr., some br. diatoms bc
Umpqua					
43.742	124.045	1.62	0.8 ± 0.5 [§]	27	slpm ac; mp bc
43.734	124.094	0.84	0 ± 0.5		pm ac; pm bc (via 10 cm sd)
43.732	124.118	0.64	0 ± 0.5 [§]	27	slpm ac; slpm bc (via 7 cm sd)
43.732	124.133	0.87	0.55 ± 0.45 [§]	27	m ac; pm bc
43.731	124.135	1	0.55 ± 0.45 [§]	27	m ac; pm bc
43.73	124.135	0.92	0.4 ± 0.4 [§]	27	ms ac; slpm bc
43.729	124.135	0.85	0.4 ± 0.4 [§]	27	slsm ac; slpm bc
43.729	124.025	1	0.8 ± 0.5 [§]		slpm ac; mp bc
43.712	124.122		0.5 ± 0.5 ^{††}	10,27	slpm, mostly br. diatoms ac; slpm, mostly br. diatoms bc
43.711	124.122	0.42	0.5 ± 0.5 [§]	27	slpm ac; pm bc
43.708	124.112	0.65	0 ± 0.5 [§]	27	mp ac; mp (via 4 cm sd) bc
43.705	124.07		0 ± 0.5	10,27	p ac; mp bc
43.705	124.072	0.32	0 ± 0.5 [§]	27	mp ac; mp (via 4cm sd) bc
43.695	123.973	1.71		27	
43.694	123.973	1.7	0.55 ± 0.45 [§]	27	m ac; pm bc
43.687	123.995	1.4	0.4 ± 0.4 [§]	27	m ac; slpm bc
43.685	124.008	0.71	0.5 ± 0.5 [§]	27	slpm ac; pm bc
43.682	124.002	0.72	1.1 ± 0.5 [§]	27	m ac; mp bc
43.682	124.002	0.72	1.1 ± 0.5 [§]	27	m ac; mp bc
43.679	124.085	0.81	0.5 ± 0.5 ^{††}	10,27	slpm ac; pm bc
43.676	124.085	0.87	0.55 ± 0.45 [§]	27	m ac; pm bc
43.675	124.062	1.52	0.55 ± 0.45 [§]	27	m ac; pm (via 4 cm detritus) bc
43.672	124.062	0.85	0.4 ± 0.4 [§]	27	sm ac; slpsm bc
43.671	124.168	1.52	0.5 ± 0.5 [§]	27	slpm ac; pm bc
Coos Bay					
43.498	124.127	1.25		27	
43.488	124.212	0.69	0.8 ± 0.5 [§]	27	slpm ac; mp bc
43.487	124.217	0.4	0.8 ± 0.5 [§]	27	slpm ac; mp bc
43.484	124.173	0.77	0.5 ± 0.5 [§]	27	slpm ac; pm bc
43.483	124.162	0.7		27	
43.483	124.16	0.7	0.8 ± 0.5 [§]	27	slpm ac; mp bc
43.482	124.162	0.78	0.55 ± 0.45 [§]	27	pm ac; mp bc
43.481	124.162	0.91	0.8 ± 0.5 [§]	27	slpm ac; mp bc
43.481	124.17	0.72	0.5 ± 0.5 [§]	27	slpm ac; pm bc
43.468	124.203	0.84	0.5 ± 0.5 [§]	27	slpm ac; pm bc
43.467	124.193	0.43	0.6 ± 0.6 [§]	28	pm, roots, ac; mp, roots bc
43.466	124.205	0.86	0.5 ± 0.5 [§]	27	slpm ac; pm bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
43.465	124.225		0 ± 0.5	10,27	mp ac; mp bc
43.465	124.205	0.7	0.8 ± 0.5 [§]	27	slpm ac; mp bc
43.463	124.225	0.65	0.55 ± 0.45 [§]	27	pm ac; mp bc
43.431	124.168	0.58	0.8 ± 0.5 [§]	27	slpm ac; mp bc
43.43	124.168	0.83	0.55 ± 0.45 [§]	27	m ac; pm bc
43.418	124.187		0 ± 0.5	10,27	pm, mostly fr., some br. diatoms ac; pm, mostly br. diatoms bc
43.408	124.045	1.18	0.4 ± 0.4 [§]	27	m ac; slpm bc
43.406	124.23	0.97	0.55 ± 0.45 [§]	27	pm bc; mp ac
43.405	124.228	0.43	0.7 ± 0.6 [§]	27	pm ac; slsp bc
43.398	124.072	0.98	0.8 ± 0.5 [§]	27	slpm bc; mp ac
43.393	124.23	0.78	0.5 ± 0.5 [§]	27	slpm bc; pm ac
43.393	124.233	0.43	0 ± 0.5		p ac; p bc (oxidised zone)
43.39	124.235	1.8		27	
43.386	124.083	0.82	0.9 ± 0.6 [§]	27	slpm ac; p bc
43.385	124.083	1	0.55 ± 0.45 [§]	27	m ac; pm bc
43.37	124.103	0.59	0.4 ± 0.4 [§]	27	slsm ac; slpm bc
43.368	124.105		0 ± 0.5 [§]	27	pm ac; pm bc
43.365	124.137	1	0.4 ± 0.4 [§]	27	m ac; slpm bc (via 13.5 cm detritus)
43.36	124.125	0.9	0.4 ± 0.4 [§]	27	m ac; slpm bc
43.359	124.055	0.9	0.55 ± 0.45 [§]	27	m ac; pm bc
43.358	124.083	0.75	0.7 ± 0.6 [§]	27	pm ac; p bc
43.358	124.083	0.6	0.4 ± 0.4 [§]	27	m ac; slpm bc
43.358	124.083	0.65	0 ± 0.5 [§]	27	no evidence of subsidence in upper 3m: gradual m to pm to p
43.357	124.087	1.05	0.55 ± 0.45 [§]	27	pm ac; mp bc
43.349	124.217	1	0.55 ± 0.45 [§]	27	m ac; pm bc
43.348	124.208	0.57	0.5 ± 0.5 ^{††}	10,27	slpm ac; pm bc
43.347	124.208	0.52	0.8 ± 0.5 [§]	27	slpm ac; mp bc
43.347	124.088	1.2		13	
43.346	124.302	0.55	1.1 ± 0.6 [§]	27	slpm ac; p bc (via 5 cm sd; 15 cm detritus)
43.345	124.302	0.5	1.05 ± 0.6 [§]	27	slpm ac; p bc (via 10 cm sd; 7 cm detritus)
43.342	124.312	0.51	1.1 ± 0.5 [§]	27	m ac; mp bc
43.342	124.312	0.92	1.1 ± 0.5 [§]	27	m ac; mp bc (via 25 cm sd)
43.338	124.305	0.83		10	
43.335	124.303	0.46	0.5 ± 0.5 [#]	10	rm ac; pm bc
43.329	124.375	0.75	1.1 ± 0.5 [§]	27	sm ac; msp bc
43.329	124.373	0.6	1.1 ± 0.5 [§]	27	sm ac; msp bc
43.323	124.237	1.32	1.1 ± 0.5 [§]	27	m ac; mp bc
43.319	124.217		0 ± 0.5	10,27	pm ac; pm bc
43.315	124.308	0.77	1.1 ± 0.5 ^{§§}	10,27,29	m ac; mp bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
43.315	124.31	0.61		10	
43.315	124.31	0.78	1.1 ± 0.5 [§]	27,30	m ac; mp bc
43.315	124.308	0.79		10	
43.313	124.152	0.85	0.55 ± 0.45 [§]	27	m ac; pm bc
43.299	124.329	0.38		31	
43.292	124.325		0.2 ± 0.5 ^{††}	10	rm ac; slpm bc
43.292	124.325	0.78		10	
43.288	124.318	0.49		10	
43.287	124.288		0 ± 0.5	10	rm ac; rm bc
43.285	124.287	0.76		10	
43.284	124.287	0.6		10	
43.283	124.32	0.7		10	
43.282	124.532	0.36		10	
43.281	124.316	0.5		28,32	
43.281	124.32	0.79		10	
43.281	124.3161	0.6		32	
43.28	124.315	0.43		32	
43.28	124.3151	0.53		32	
43.28	124.3152	0.5		32	
43.28	124.314	0.5		32	
43.28	124.314	0.44		28,32	
43.28	124.3141	0.57		28,32	
43.28	124.3147	0.68		32	
43.28	124.3141	0.47	0.7 ± 0.4	28,32	llm forams and diatoms ac; hm forams and diatoms bc
43.28	124.3143	0.6		32	
43.28	124.3144	0.53		32	
43.28	124.3166	0.76		32	
43.277	124.317	0.45	0.5 ± 0.5 [#]	10,28	rm ac; pm bc
43.273	124.327	0.59		10	
Coquille					
43.195	124.282		0.2 ± 0.4 ^{††}	10	rm ac; slpm bc
43.195	124.532	0.78		10	
43.195	124.282	1		10	
43.172	124.337	0.61		10	
43.168	124.34		0.5 ± 0.5 [#]	10	rm ac; pm bc
43.168	124.295		0 ± 0.5	10	pm ac; pm bc
43.168	124.34	0.58		10	
43.165	124.348		0 ± 0.5	10,33	slpm ac; slpm bc
43.162	124.3623	0.76	1.15 ± 0.75 [§]	34	m/pm ac; Spruce, p bc
43.161	124.348		1.2 ± 0.8 [§]	28	lm/intertidal m ac; Spruce, p bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
43.158	124.368	1		33	
43.148	124.389	0.57	1.05 ± 0.75 [§]	34	m/pm ac; p bc
43.147	124.384	0.52		34	
43.147	124.377		0 ± 0.5	10,33	slpm ac; slpm bc
43.144	124.395	0.62	1.05 ± 0.75 [§]	34	m/p, ac; p bc
43.133	124.395	0.59	0.75 ± 0.65 ^{§§}	10,33	pm ac; Spruce, p bc
43.1315	124.4	1	0.5 ± 0.5 [§]	33	slpsm ac; pm bc
43.129	124.4	0.65	0.8 ± 0.5 [§]	33	slpm ac; mp bc
43.075	124.37	0.94	0.5 ± 0.5 [§]	33	m/slpm ac; pm bc
43.071	124.405	0.89	0.5 ± 0.5 [§]	33	slpm ac; pm bc
43.028	124.405	0.99	0.95 0.85 [§]	33	m ac; pm/p bc
43.023	124.398		0 ± 0.5 [§]	33	no evidence of subsidence in upper 3m: gradual m at base to pm to p at top
42.913	124.445		0 ± 0.5 [§]	33	only 2m of core: gradual m at base to pm to mp at top
42.746	124.478		0 ± 0.5 [§]	33	upper 4 m all mp
CALIFORNIA					
Clam Beach					
40.93	124.12		- 0.5 ± 0.5 ^{†††}	35	Uplifted marine terrace, beach sediment covered by sequences of dunes with weak soils on top (developed between events)
Humboldt Bay					
40.899	124.126	0.84	0.4 ± 0.35 [§]	36	Triglochin, m/pm ac; Spruce, p bc
40.898	124.126	0.97	0.4 ± 0.35 [§]	36	Triglochin, m/pm ac; Spruce, p bc
40.895	124.127	0.91	0.4 ± 0.35 [§]	36	Triglochin, m/pm ac; Spruce, p bc
40.885	124.136	1.02		36	
40.878	124.139	1.32		36	
40.873	124.142	1.21		36	
40.87	124.148		0.8 ± 0.5 ^{††}	35-37	Salicornia, Mili. Fusca (foram), rm ac; Grindelia, mp bc
40.869	124.147	1.31	0.26 ± 0.3 [§]	36	Triglochin, m/pm ac; Grindelia, p bc
40.865	124.146	0.93		36	
40.865	124.149	1.14	0.26 ± 0.3 [§]	36	Triglochin, m/pm ac; Grindelia, p bc
40.863	124.15	1.29		36	
40.859	124.152	1.06		36	
40.856	124.153	1.15		36	
40.85	124.077		0 ± 0.5	36	m ac; m bc
40.845	124.08		1.05 ± 0.75 ^{††}	10	m ac; p bc
40.827	124.15	1.29	0.26 ± 0.3 [§]	36	Triglochin, m/pm ac; Grindelia, p bc
40.803	124.135		1.05 ± 0.75 ^{††}	10	m ac; p bc
40.698	124.207		0 ± 0.5	10	m ac; m bc

TABLE DR1 (cont'd)

Latitude	Longitude	1700 horizon depth	Estimated subsidence	Data source [†]	Means of estimation
(°N)	(°W)	(m)	(m)		
40.677	124.215		0.95 ± 0.65 ^{††}	10	m ac; mp bc
Eel River					
40.658	124.303		0 ± 0.5	38	m ac; m bc
40.617	124.323		0.4 ± 0.5 [§]	38	pm ac; mp bc
Cape Mendocino: Singley Flat					
40.427	124.403		- 0.5 ± 0.5 ^{†††}	39,40	no direct evidence for terrace from 1700 event, but series of Holocene platforms many km long, youngest dated 610-955 yrs BP, overlain by debris flow deposit (240-465 yrs BP) which may correlate with 1700 EQ. No. of platforms is a min. no. of possible events.

Notes: Abbreviations: ac, above 1700 contact; bc, below 1700 contact; p, peat; m, mud; sd, sand; mp, muddy peat; pm, peaty mud; slpm, slightly peaty mud; rm, rooted mud; slsp, slightly sandy peat; msp, muddy sandy peat; ms, muddy sand; sm, sandy mud; slsm, slightly sandy mud; slspm, slightly sandy peaty mud; fet, forest edge transition; hhm, higher high marsh; hm, high marsh; umm, upper middle marsh; lmm, lower middle marsh; lm, low marsh; ulm, upper low marsh; llm, lower low marsh; utf, upper tidal flat; tf, tidal flat; TS, tectonic subsidence; QFA, Q-mode factor analysis; org, organics; fr., freshwater; br., brackish; mar., marine.

[†] Data sources: 1, Hutchinson et al., 2000; 2, Clague and Bobrowsky, 1994b; 3, Guilbault et al., 1996; 4, Clague and Bobrowsky, 1994a; 5, Guilbault et al., 1996; 6, Hughes et al., 2002; 7, Peterson et al., 2000; 8, Atwater, 1988; 9, Atwater, 1992; 10, Peterson et al., 1997; 11, Barnett, 1997; 12, Shennan et al., 1996; 13, Atwater and Hemphill-Haley, 1997; 14, Hemphill-Haley, 1995; 15, Atwater 1994; 16, Peterson et al., 1993; 17, Peterson and Madin, 1997; 18, Darienzo, 1991; 19, Gallaway et al., 1992; 20, Shennan et al., 1998; 21, Peterson and Darienzo, 1988; 22, Darienzo and Peterson, 1990; 23, Peterson et al., 1996; 24, Peterson and Priest, 1995; 25, Peterson and Darienzo, 1996; 26, Peterson and Darienzo, 1991; 27, Briggs, 1994; 28, Nelson, 1992; 29, Darienzo and Peterson, 1995; 30, Peterson and Darienzo, 1989; 31, Nelson et al., 1998; 32, Nelson et al., 1996; 33, Briggs and Peterson, 1993; 34, Witter et al., 1997; 35, Carver and Burke, 1989; 36, Vick, 1988; 37, Jacoby et al., 1995; 38, Li, 1992; 39, Carver et al., 1994; 40, Merritts, 1996.

[‡] Substantially less than 0.5 m; some subsidence indicated by presence of marine/brackish diatoms above 1700 tsunami layer.

[§] New subsidence estimate.

[#] Reinterpretation to < 0.5 m lower than previously published estimate.

^{††} Reinterpretation to \pm 0.2 m different from published estimate.

^{†††} Reinterpretation to < 0.5 m higher than published estimate.

^{§§} Reinterpretation to > 0.5 m higher than published estimate.

Reinterpretation to > 0.5 m lower than published estimate.

+++ Uplift of unknown amount indicated; 0.5 m is arbitrarily assigned.

REFERENCES CITED IN DATA REPOSITORY

- Atwater, B.F., 1988, Geologic studies for seismic zonation of the Puget lowland, *in* Jacobson, M.L., et al., comps., National Earthquake Hazards Reduction Program, Summaries of technical reports, Volume XXV: U.S. Geological Survey Open-File Report 88-16, p. 120-133.
- Atwater, B.F., 1992, Geologic evidence for earthquakes during the past 2000 years along the Copalis River, southern coastal Washington: *Journal of Geophysical Research*, v. 97, p. 1901-1919.
- Atwater, B. F., 1994, Geology of Holocene liquefaction features along the lower Columbia River at Marsh, Brush, Hunting, and Wallace Islands, Oregon and Washington: U.S. Geological Survey Open File Report 94-209, 63 p.
- Atwater, B.F., and Hemphill-Haley, E., 1997, Recurrence intervals for great earthquakes of the past 3,500 years at northeastern Willapa Bay, Washington: U.S. Geological Survey Professional Paper 1576, 108 p.
- Barnett, E. T., 1997, The potential for coastal flooding due to coseismic subsidence in the central Cascadia margin [M.Sc. thesis]: Portland State University, Portland, Oregon, 144 p.
- Briggs, G. G., 1994, Coastal crossing of the zero-isobase, Cascadia margin, south-central Oregon coast [M.Sc. thesis]: Portland State University, Portland, Oregon, 251 p.
- Briggs, G., and Peterson, C.D., 1993, Neotectonics of the central Cascadia margin as recorded on south-central Oregon coastal deposits: U.S. Geological Survey - National Earthquake Hazards Reduction Program, Final Report, 77 p.
- Carver, G., and Burke, R.B., 1989, Active convergent tectonics in northwestern California, *in* Aalto, K.R., et al., field trip leaders, Geological evolution of the northernmost Coast Ranges and western Klamath Mountains, California: Field Trip Guidebook T308, 28th International Geologic Congress, p. 64-82.

- Carver, G., Jayko, A.S., Valentine, D.W., and Li, W.H., 1994, Coastal uplift associated with the 1992 Cape Mendocino earthquake, northern California: *Geology*, v. 22, p. 195-198.
- Clague, J.J., and Bobrowsky, P.T., 1994a, Evidence for a large earthquake and tsunami 100-400 years ago on western Vancouver Island, British Columbia: *Quaternary Research*, v. 41, p. 176-184.
- Clague, J.J., and Bobrowsky, P.T., 1994b, Tsunami deposits in tidal marshes on Vancouver Island, British Columbia: *Geological Society of America Bulletin*, v. 106, p.1293-1303.
- Darienzo, M.E., 1991, Late Holocene paleoseismicity along the northern Oregon coast [Ph.D. thesis]: Portland State University, Portland, Oregon, 176 p.
- Darienzo, M.E., and Peterson, C.D., 1990, Episodic tectonic subsidence of late Holocene salt marshes, northern Oregon central Cascadia margin: *Tectonics*, v. 9, p. 1-22.
- Darienzo, M.E., and Peterson, C.D., 1995, Magnitude and frequency of subduction-zone earthquakes along the northern Oregon coast in the past 3,000 years: *Oregon Geology*, v. 57, p. 3-12.
- Gallaway, P.J., Peterson, C.D., Watkins, A.M., Craig, S., and McLeod, B.L., 1992, Paleotsunami runup at Cannon Beach, Oregon: Final Report to Clatsop County Sheriff's Office, Clatsop County, Oregon, 36 p.
- Guilbault, J.P., Clague, J.J., and Lapointe, M., 1995, Amount of subsidence during a late Holocene earthquake – evidence from fossil tidal marsh foraminifera at Vancouver Island, west coast of Canada: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 118, p. 49-71.
- Guilbault, J.P., Clague, J.J., and Lapointe, M., 1996, Foraminifera evidence for the amount of coseismic subsidence during a late Holocene earthquake on Vancouver Island, west coast of Canada: *Quaternary Science Reviews*, v. 15, p. 913-937.
- Hemphill-Haley, E., 1995, Diatom evidence for earthquake-induced subsidence and tsunami 300 yr ago in southern coastal Washington: *Geological Society of America Bulletin*, v. 107, p. 367-378.
- Hughes, J.F., Mathewes, R.W., and Clague, J.J., 2002, Use of pollen and vascular plants to estimate coseismic subsidence at a tidal marsh near Tofino, British Columbia: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 185, p. 145-161.

- Hutchinson, I., Guilbault, J.P., Clague, J.J., and Bobrowsky, P.T., 2000, Tsunamis and tectonic deformation at the northern Cascadia margin; a 3000-year record from Deserted Lake, Vancouver Island, British Columbia, Canada: *The Holocene*, v. 10, no. 4, p. 429-439.
- Jacoby, G.C., Carver, G.A., and Wagner, W., 1995, Trees and herbs killed by an earthquake 300 yr ago at Humboldt Bay, California: *Geology*, v. 23, p. 77-80.
- Li, W.H., 1992, Late Holocene paleoseismology in the lower Eel River valley, northern California [M.Sc. thesis], Humboldt State University, Arcata, California, 78 p.
- Merritts, D.J., 1996, The Mendocino triple junction: active faults, episodic coastal emergence, and rapid uplift: *Journal of Geophysical Research*, v. 101, p. 6051-6070.
- Nelson, A.R., 1992, Holocene tidal-marsh stratigraphy in south-central Oregon – evidence for localized sudden submergence in the Cascadia subduction zone, *in* Fletcher, C.H., III, et al., eds., *Quaternary Coasts of the United States: Marine and Lacustrine Systems*, SEPM Special Publication, v. 48, p. 287-301.
- Nelson, A.R., Jennings, A.E., and Kashima, K., 1996, An earthquake history derived from stratigraphic and microfossil evidence of relative sea-level change at Coos Bay, southern coastal Oregon: *Geological Society of America Bulletin*, v. 108, p. 141-154.
- Nelson, A.R., Ota, Y., Umitsu, M., Kashima, K., and Matsushima, Y., 1998, Seismic or hydrodynamic control of rapid late-Holocene sea-level rises in southern coastal Oregon, USA?: *The Holocene*, v. 8, no. 3, p. 287-299.
- Peterson, C.D., and Darienzo, M.E., 1988, Coastal neotectonic field trip guide for Netarts Bay, Oregon: *Oregon Geology*, v. 50, no. 9/10, p. 99-106, and 117.
- Peterson, C.D., and Darienzo, M.E., 1989, Episodic, abrupt tectonic subsidence recorded in late Holocene deposits of the South Slough syncline: an on-land expression of shelf fold belt deformation from the southern Cascadia margin: *Geological Society of America Abstracts with Programs*, v. 21, no. 5, p. 129.

- Peterson, C. D., and Darienzo, M. E., 1991, Discrimination of climatic, oceanic and tectonic mechanisms of cyclic marsh burial from Alsea Bay, Oregon, U.S.A.: U.S. Geological Survey Open File Report 91-441-C, 53 p.
- Peterson, C.D., and Darienzo, M.E., 1996, Discrimination of flood, storm and tectonic subsidence events in coastal marsh records of Alsea Bay, central Cascadia margin, USA, *in* Rogers, A.M., et al., eds., *Assessing Earthquake Hazards and reducing risk in the Pacific Northwest, Volume 1: U.S. Geological Survey Professional Paper 1560*, p. 115-146.
- Peterson, C.D., and Madin, I.P., 1997, Coseismic paleoliquefaction evidence in the central Cascadia margin, USA: *Oregon Geology*, v. 59, no. 3, p. 51-74.
- Peterson, C.D., and Priest, G.R., 1995, Preliminary reconnaissance of Cascadia paleotsunami deposits in Yaquina Bay, Oregon: *Oregon Geology*, v. 57, p. 33-40.
- Peterson, C.D., Darienzo, M.E., Burns, S.F., and Burris, W., 1993, Field trip guide to Cascadia paleoseismic evidence along the northern Oregon coast: Evidence of subduction zone paleoseismicity in the central Cascadia margin: *Oregon Geology*, v. 55, p. 99-114.
- Peterson, C.D., Darienzo, M.E., Doyle, D., and Barnett, E., 1996, Evidence for coseismic subsidence and tsunami deposition during the past 3,000 years at Siletz Bay, Oregon, *in* Priest, G.R., ed., *Explanation of Mapping Methods and Use of the Tsunami Hazard Map of the Siletz Bay Area*, Lincoln City, Oregon, Oregon Department of Geology and Mineral Industries Open File Report 0-95-5, 25 p.
- Peterson, C.D., Barnett, E.T., Briggs, G.C., Carver, G.A., Clague, J.J., and Darienzo, M.E., 1997, Estimates of coastal subsidence from great earthquakes in the Cascadia subduction zone, Vancouver Island, B.C., Washington, Oregon, and northernmost California: Open File Report - State of Oregon, Department of Geology and Mineral Industries, 44 p.
- Peterson, C.D., Doyle, D.L., and Barnett, E.T., 2000, Coastal flooding and beach retreat from coseismic subsidence in the central Cascadia margin, USA: *Environmental and Engineering Geoscience*, v. 6, p. 255-269.

Shennan, I., Long, A.J., Rutherford, M.M., Green, F.M., Innes, J.B., Lloyd, J.M., Zong, Y., and Walker, K.J., 1996, Tidal marsh stratigraphy, sea-level change and large earthquakes, I: a 5000 year record in Washington, USA: *Quaternary Science Reviews*, v. 15, p. 1023-1059.

Shennan, I., Long, A.J., Rutherford, M.M., Innes, J.B., Green, F.M., and Walker, K.J., 1998, Tidal marsh stratigraphy, sea-level change and large earthquakes; II: submergence events during the last 3500 years at Netarts Bay, Oregon, USA: *Quaternary Science Reviews*, v. 17, p. 365-393.

Vick, G.S., 1988, Late Holocene paleoseismicity and relative sea level changes of the Mad River Slough, northern Humboldt Bay, California [Master's thesis]: Humboldt State University, Arcata, California, 87 p.

Witter, R.C., Kelsey, H.M., and Hemphill-Haley, E., 1997, A paleoseismic history of the south-central Cascadia subduction zone; assessing earthquake recurrence intervals and upper-plate deformation over the past 6600 years at the Coquille River estuary, southern Oregon, U.S.A., 54 p.