

Table S5: GPS site locations (“Longitude, Latitude”), velocities (“Ve, Vn”) and associated uncertainties (“Se, Sn”) in the horizontal (“east and north”) component, the correlations (“Rho”) and names (“Site”) for combined data set of periods 1 and 4 in the Alaska Peninsula. Sites in the Alaska Peninsula will be added into the combined data set from Table S1 and Table S4 in estimating the pole of rotation in the PENN block. The units of Ve, Vn, Se and Sn are all mm/yr.

Longitude	Latitude	Ve	Vn	Se	Sn	Rho	Site
197.2928	55.1903	-4.97	-1.86	0.45	0.54	0.000	BAY1
197.2932	55.1904	-5.26	-1.96	0.46	0.55	0.000	BAY2
196.5765	54.8853	-3.77	-1.84	0.57	0.63	0.000	AB06
199.5232	55.3493	-8.76	3.04	0.55	0.62	0.000	AB07
201.4962	56.3073	-10.60	6.46	0.56	0.63	0.000	AB13
199.3053	63.8864	-2.30	-1.03	0.54	0.62	0.000	AB17
198.7134	65.9613	0.79	-2.48	0.54	0.62	0.000	AC07
195.1133	54.5226	-7.08	-1.46	0.57	0.63	0.000	AC10
200.4104	54.8310	-9.44	7.75	0.55	0.63	0.000	AC12
200.8723	55.9211	-10.30	5.53	0.55	0.62	0.000	AC21
199.9508	55.0785	-9.00	4.38	0.55	0.62	0.000	AC28
197.7609	64.6380	0.39	-2.68	0.54	0.62	0.000	AC31
199.5927	55.9087	-8.86	1.51	0.56	0.63	0.000	AC41
195.4334	65.5538	1.49	-3.55	0.55	0.63	0.000	AC50
202.4258	57.5673	-10.56	3.45	0.54	0.62	0.000	AC52
197.2928	55.1903	-5.19	-1.70	0.56	0.63	0.000	BAY5
197.6307	54.6290	-2.15	-1.49	2.17	1.71	0.000	CHRN
197.1990	54.4908	-2.90	-1.83	0.55	0.58	0.000	CROW
197.6448	54.8246	-5.05	-4.74	4.01	2.93	0.000	FAWN
201.3877	56.9639	-6.71	1.71	0.84	0.73	0.000	HEID
199.5048	55.3021	-8.62	3.25	0.48	0.55	0.000	LSDP
197.3810	54.3839	-3.32	-2.20	0.51	0.56	0.000	PETE
197.4770	54.8574	0.28	7.00	2.54	1.76	0.000	REEF
199.5245	55.3530	-10.67	-6.62	6.75	3.16	0.000	SDP1
199.5245	55.3523	-7.47	-3.72	5.15	3.63	0.000	SNDP
197.3953	54.9844	-1.94	1.11	1.51	1.17	0.000	TELE