Supplementary Table 1 GPS horizontal and vertical velocity data (1996-2000) in the northeastern part of Japan.

Station	Longitude	Latitude	Velocity(E)*1	Velocity(N)*1	Velocity(U)*1	Error(E)*2	Error(N)*2	Error(U)*2
	[°E]	[°N]	[mm/yr]	[mm/yr]	[mm/yr]	[mm/yr]	[mm/yr]	[mm/yr]
942001	141.84478	43.52882	-7.59	-1.52	1.36	2.36	4.12	17.11
940001	141.75043	45.40299	4.09	-1.99	0.60	2.13	3.34	12.12
940002	143.22418	44.43369	-2.31	0.74	1.24	2.01	3.01	12.15
940003	141.75631	44.39795	0.05	-1.17	-0.55	1.88	3.15	11.28
940004	144.67584	43.91569	-12.34	7.18	2.42	2.28	3.09	11.14
940005	144.44901	43.50786	-19.82	8.91	-2.03	2.19	2.79	10.47
940006	145.51146	43.28984	-28.49	10.58	-2.03	2.46	2.88	10.52
940007	142.48248	43.58966	-15.25	2.40	-1.58	2.25	2.94	11.30
940008	141.51037	43.85401	-3.14	-1.56	2.02	1.94	3.01	11.29
940009	145.12962	43.07008	-29.59	11.42	-1.15	2.26	2.84	10.74
940010	144.43193	42.96326	-23.93	9.05	-5.62	2.57	3.94	10.89
940011	143.45923	43.02863	-19.49	6.89	-4.17	2.46	3.73	11.30
940012	142.40197	42.98052	-18.09	2.09	-5.28	1.95	2.95	11.89
940013	141.03091	43.17786	-6.10	-2.77	2.86	1.97	2.97	10.46
940014	141.73067	42.98325	-12.50	-1.99	-2.12	2.51	3.00	10.16
940015	143.33099	42.32160	-26.30	9.09	0.08	3.34	3.10	11.04
940016	142.36460	42.35691	-16.32	1.81	-0.71	1.75	2.69	9.93
940017	139.85767	42.45074	-14.25	-1.53	4.09	2.61	2.83	10.72
940018	140.94240	42.37422	-8.14	-1.28	3.42	2.62	3.95	10.61
940019	143.15652	42.00586	-23.20	4.69	1.23	2.08	3.23	10.47
940020	139.51960	42.15355	-10.72	-0.47	-8.44	2.91	3.01	11.32
940021	140.10732	42.00808	-9.42	-1.14	2.18	2.07	2.81	10.32
940022	140.74782	41.82607	-7.20	-1.29	4.38	1.81	2.76	10.66
940023	140.04065	41.46638	-3.65	-1.15	2.25	2.00	2.76	11.71
940024	141.21327	41.30077	-8.64	-1.16	-0.44	2.16	2.68	11.32
940025	140.82959	40.84092	-5.32	-1.35	-0.16	1.91	2.64	10.39
940026	140.27298	40.77899	-3.95	-1.01	0.41	1.76	2.76	11.03
940027	141.78910	40.13345	-10.36	-1.88	2.68	2.04	2.48	10.23
940028	141.93996	39.57239	-14.12	0.15	0.31	2.07	2.51	10.81
940029	141.20392	39.11062	-18.75	6.34	-2.66	1.95	2.47	10.31
940030	139.77615	39.96790	-1.65	2.06	4.50	1.88	2.54	10.33
940031	140.04824	39.39870	-5.32	2.65	1.73	1.71	2.30	9.49
940032	139.80885	38.89460	-6.26	2.49	2.22	1.62	2.21	8.97
940033	140.31874	38.75860	-11.84	4.27	3.78	2.60	2.49	9.55
940034	139.55580	38.55554	-8.45	1.59	-2.10	1.63	2.15	9.89

940035 140.36609 38.33103 -17.27 2.40 0.97 1.75 2.17 9.70 940036 141.44116 38.44920 -29.31 5.65 -2.15 2.16 2.30 9.99 940037 140.95419 38.31749 -24.40 3.54 -5.20 1.91 2.19 10.32 940038 140.90808 37.80067 -25.22 3.23 -0.09 2.10 2.17 9.94 940039 140.32477 37.36190 -18.88 -0.64 -5.05 2.30 2.14 9.89 940040 139.79151 37.64370 -13.00 0.16 0.15 1.84 2.06 9.49 940041 140.90252 37.09071 -22.76 4.51 6.18 2.14 2.26 9.56 940049 139.50957 38.23069 -11.14 0.30 0.46 1.64 2.00 9.45 950101 142.16973 45.33583 1.62 -2.28 1.91 1.91 2.64
940037 140.95419 38.31749 -24.40 3.54 -5.20 1.91 2.19 10.32 940038 140.90808 37.80067 -25.22 3.23 -0.09 2.10 2.17 9.94 940039 140.32477 37.36190 -18.88 -0.64 -5.05 2.30 2.14 9.89 940040 139.79151 37.64370 -13.00 0.16 0.15 1.84 2.06 9.49 940041 140.90252 37.09071 -22.76 4.51 6.18 2.14 2.26 9.56 940049 139.50957 38.23069 -11.14 0.30 0.46 1.64 2.00 9.45 950101 142.16973 45.33583 1.62 -2.28 1.91 1.91 1.91 2.64 9.14
940038 140.90808 37.80067 -25.22 3.23 -0.09 2.10 2.17 9.94 940039 140.32477 37.36190 -18.88 -0.64 -5.05 2.30 2.14 9.89 940040 139.79151 37.64370 -13.00 0.16 0.15 1.84 2.06 9.49 940041 140.90252 37.09071 -22.76 4.51 6.18 2.14 2.26 9.56 940049 139.50957 38.23069 -11.14 0.30 0.46 1.64 2.00 9.45 950101 142.16973 45.33583 1.62 -2.28 1.91 1.91 1.91 2.64 9.14
940039 140.32477 37.36190 -18.88 -0.64 -5.05 2.30 2.14 9.89 940040 139.79151 37.64370 -13.00 0.16 0.15 1.84 2.06 9.49 940041 140.90252 37.09071 -22.76 4.51 6.18 2.14 2.26 9.56 940049 139.50957 38.23069 -11.14 0.30 0.46 1.64 2.00 9.45 950101 142.16973 45.33583 1.62 -2.28 1.91 1.91 2.64 9.14
940040 139.79151 37.64370 -13.00 0.16 0.15 1.84 2.06 9.49 940041 140.90252 37.09071 -22.76 4.51 6.18 2.14 2.26 9.56 940049 139.50957 38.23069 -11.14 0.30 0.46 1.64 2.00 9.45 950101 142.16973 45.33583 1.62 -2.28 1.91 1.91 2.64 9.14
940041 140.90252 37.09071 -22.76 4.51 6.18 2.14 2.26 9.56 940049 139.50957 38.23069 -11.14 0.30 0.46 1.64 2.00 9.45 950101 142.16973 45.33583 1.62 -2.28 1.91 1.91 2.64 9.14
940049 139.50957 38.23069 -11.14 0.30 0.46 1.64 2.00 9.45 950101 142.16973 45.33583 1.62 -2.28 1.91 1.91 2.64 9.14
950101 142.16973 45.33583 1.62 -2.28 1.91 1.91 2.64 9.14
950102 141.03821 45.27597 5.25 -2.13 2.30 1.78 2.77 9.17
950103 142.53709 45.00240 0.14 -2.54 3.54 2.44 2.62 9.90
950104 141.74139 44.89246 2.98 -2.66 3.31 1.77 2.63 8.75
950105 142.26524 44.72850 0.48 -2.86 4.29 2.04 2.69 10.41
950106 141.33005 44.42705 1.46 -2.74 3.50 1.74 2.60 9.15
950107 142.62559 44.29457 -3.84 -0.63 2.75 1.83 2.56 9.11
950108 144.02977 44.06387 -10.71 1.45 1.07 2.26 3.27 9.24
950109 145.18609 44.01918 -11.27 6.28 4.94 2.94 2.78 10.42
950110 142.15169 44.00678 -5.14 -0.98 3.12 1.90 2.53 9.86
950111 143.33370 44.00562 -7.33 1.91 2.04 2.04 2.53 9.62
950112 143.92694 42.89452 -21.69 10.33 -4.32 1.87 2.61 8.38
950113 144.98696 43.54940 -20.52 8.06 -1.74 2.33 2.97 9.17
950114 143.78726 43.84890 -8.81 2.54 1.90 2.00 2.80 8.68
950115 145.13144 43.66182 -19.94 8.38 -2.46 2.10 2.78 9.27
950116 144.77433 43.40869 -24.20 10.16 -4.29 2.40 2.48 8.70
950117 141.43117 43.40468 -6.57 -3.64 3.38 1.70 2.43 8.54
950118 145.11496 43.38253 -26.53 9.81 -2.19 3.20 2.50 8.87
950119 145.80113 43.36685 -29.26 7.40 -3.11 2.30 2.55 8.92
950120 140.59707 43.29259 -4.81 -3.15 3.93 2.05 2.64 11.26
950121 143.56242 43.28947 -17.92 5.14 -1.49 1.93 2.56 8.15
950122 144.32503 43.23294 -22.95 9.92 -4.95 2.00 2.59 8.72
950123 143.29802 43.23200 -17.54 5.28 2.05 1.86 2.52 8.81
950124 144.12653 43.12061 -22.14 10.25 -3.32 1.96 2.54 8.52
950125 144.84302 43.05759 -28.12 10.55 -1.87 1.97 2.43 8.88
950126 140.49917 43.05683 -6.10 -3.25 6.73 1.79 2.57 8.21
950127 140.54394 42.98525 -7.29 -3.20 8.25 1.90 2.75 8.68
950128 141.29033 42.97138 -8.20 -3.50 2.28 1.81 2.52 9.49
950129 140.88334 42.85789 -8.38 -3.50 5.89 2.15 3.18 9.64
950130 140.60352 42.80272 -13.13 -4.55 7.38 2.54 3.26 8.48
950131 140.23320 42.78644 -12.73 -3.07 8.68 2.46 2.51 8.09
950132 141.86398 42.72944 -13.17 -2.09 -1.85 2.36 2.89 11.57
950133 142.29580 42.72724 -16.27 0.97 1.37 1.72 2.47 8.32

950134 143.10325 42.69927 -20.70 8.46 1.41 1.83 2.42 8.46 950135 141.07495 42.66788 10.14									
950136 141.60226 42.65553 -11.69 -2.72 -2.60 1.77 2.50 8.69 950137 140.82568 42.64629 -10.63 -4.20 7.26 1.75 2.54 8.58 950138 143.46114 42.55165 -24.09 10.55 0.21 1.76 2.54 8.22 950139 141.36148 42.54948 -10.76 -2.92 9.53 2.30 2.43 8.20 950141 142.06022 42.48128 -5.69 -2.15 -2.33 1.77 2.43 8.69 950142 142.56745 42.24773 -15.63 0.34 3.10 1.79 2.42 8.19 950143 140.25048 42.24398 -11.70 -3.21 6.02 2.04 2.46 9.60 950146 140.03934 42.13085 -11.02 -1.47 5.45 2.74 2.26 8.29 950147 140.03084 42.04997 -6.19 -1.92 5.29 2.03 2.72 <th>950134</th> <th>143.10325</th> <th>42.69927</th> <th>-20.70</th> <th>8.46</th> <th>1.41</th> <th>1.83</th> <th>2.42</th> <th>8.46</th>	950134	143.10325	42.69927	-20.70	8.46	1.41	1.83	2.42	8.46
950137 140,82568 42,64629 -10,63 -4,20 7,26 1,75 2,54 8,58 950138 143,46114 42,55165 -24,09 10,55 0,21 1,76 2,54 8,22 950139 141,36148 42,54980 -11,12 -2,10 -2,56 1,92 2,71 9,31 950141 142,06022 42,48128 -10,76 -2,92 9,53 2,30 2,43 8,20 950141 142,56745 42,24773 -15,63 0,34 3,10 1,79 2,42 8,19 950143 140,25048 42,24368 -11,70 -3,21 6,02 2,04 2,46 9,60 950144 142,93538 42,13094 -20,65 3,26 1,42 1,78 2,49 8,09 950145 140,00394 42,04957 -6,19 -1,92 5,29 2,03 2,72 9,38 950148 140,14077 41,83442 -12,86 3,44 -3,16 2,21 2,86	950135	141.07495	42.66788	-10.14	-4.99	2.88	2.42	3.25	10.56
950138 143.46114 42.55165 -24.09 10.55 0.21 1.76 2.54 8.22 950139 141.36148 42.54980 -11.12 -2.10 -2.56 1.92 2.71 9.31 950140 140.35420 42.49436 -10.76 -2.92 9.53 2.30 2.43 8.20 950141 142.06022 42.48128 -5.69 -2.15 -2.33 1.77 2.43 8.69 950142 142.56745 42.24773 -15.63 0.34 3.10 1.79 2.42 8.18 950143 140.25088 42.13094 -20.65 3.26 1.42 1.78 2.49 8.09 950146 140.0394 42.13096 -11.02 -1.47 5.45 2.04 2.56 9.29 950146 140.56850 42.09890 -8.17 -1.41 6.66 1.85 2.50 8.94 950147 140.80564 42.04297 -6.19 -1.92 5.29 2.03 2.72	950136	141.60226	42.65553	-11.69	-2.72	-2.60	1.77	2.50	8.69
950139 141.36148 42.54980 -11.12 -2.10 -2.56 1.92 2.71 9.31 950140 140.35420 42.49436 -10.76 -2.92 9.53 2.30 2.43 8.20 950141 142.06022 42.48128 -5.69 -2.15 -2.33 1.77 2.43 8.69 950142 142.56745 42.24773 -15.63 0.34 3.10 1.79 2.42 8.19 950143 140.25048 42.13085 -11.02 -1.47 5.45 2.04 2.46 9.60 950145 140.03094 42.13085 -11.02 -1.47 5.45 2.04 2.56 9.29 950146 140.56860 42.04297 -6.19 -1.92 5.29 2.03 2.72 9.38 950147 140.80564 42.04297 -6.19 -1.92 5.29 2.03 2.72 9.38 950148 141.14077 41.8344 -1.285 3.44 -3.16 2.21 2.86	950137	140.82568	42.64629	-10.63	-4.20	7.26	1.75	2.54	8.58
950140 140.35420 42.49436 -10.76 -2.92 9.53 2.30 2.43 8.20 950141 142.06022 42.48128 -5.69 -2.15 -2.33 1.77 2.43 8.69 950142 142.56745 42.24773 -15.63 0.34 3.10 1.79 2.42 8.19 950143 140.25048 42.13094 -20.65 3.26 1.42 1.78 2.49 8.00 950145 140.03394 42.13085 -11.02 -1.47 5.45 2.04 2.56 9.29 950146 140.56850 42.08990 -8.17 -1.41 6.66 1.85 2.50 8.94 950149 140.31589 41.59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140.88050 41.45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140.83589 41.04322 -5.16 -1.46 1.54 1.86 2.36	950138	143.46114	42.55165	-24.09	10.55	0.21	1.76	2.54	8.22
950141 142,06022 42,48128 -5.69 -2.15 -2.33 1.77 2.43 8.69 950142 142,56745 42,24773 -15.63 0.34 3.10 1.79 2.42 8.19 950143 140,25048 42,24368 -11.70 -3.21 6.02 2.04 2.46 9.60 950144 142,93538 42,13084 -20.65 3.26 1.42 1.78 2.49 8.09 950145 140,00394 42,13085 -11.02 -1.47 5.45 2.04 2.56 9.29 950146 140,68650 42,09890 -8.17 -1.41 6.66 1.85 2.50 8.92 950149 140,31589 41,59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140,88050 41,45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140,63589 41,04322 -5.16 -1.46 1.54 1.86 2.36	950139	141.36148	42.54980	-11.12	-2.10	-2.56	1.92	2.71	9.31
950142 142.56745 42.24773 -15.63 0.34 3.10 1.79 2.42 8.19 950143 140.25048 42.24368 -11.70 -3.21 6.02 2.04 2.46 9.60 950144 142.93538 42.13085 -11.02 -1.47 5.45 2.04 2.56 9.29 950146 140.06980 42.13085 -11.02 -1.47 5.45 2.04 2.56 9.29 950146 140.06980 42.0899 -8.17 -1.41 6.66 1.85 2.50 8.94 950147 140.80554 42.04297 -6.19 -1.92 5.29 2.03 2.72 9.38 950149 140.31589 41.59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140.86050 41.45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140.36796 40.98824 -9.81 -0.71 2.24 1.98 2.31	950140	140.35420	42.49436	-10.76	-2.92	9.53	2.30	2.43	8.20
950143 140.25048 42.24368 -11.70 -3.21 6.02 2.04 2.46 9.60 950144 142.93538 42.13094 -20.65 3.26 1.42 1.78 2.49 8.09 950145 140.00394 42.13085 -11.02 -1.47 5.45 2.04 2.56 9.29 950146 140.56850 42.09890 -8.17 -1.41 6.66 1.85 2.50 8.94 950147 140.80564 42.04297 -6.19 -1.92 5.29 2.03 2.72 9.38 950149 140.31689 41.59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140.88050 41.45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140.63689 41.04322 -5.16 -1.46 1.54 1.86 2.36 8.81 950152 141.36796 40.96824 -9.81 -0.71 2.24 1.98 2.31	950141	142.06022	42.48128	-5.69	-2.15	-2.33	1.77	2.43	8.69
950144 142,93538 42,13094 -20.65 3.26 1.42 1.78 2.49 8.09 950145 140,00394 42,13085 -11.02 -1.47 5.45 2.04 2.56 9.29 950146 140,56850 42,09890 -8.17 -1.41 6.66 1.85 2.50 8.94 950147 140,80554 42,04297 -6.19 -1.92 5.29 2.03 2.72 9.38 950148 141,14077 41,83442 -12.85 3.44 -3.16 2.21 2.86 8.69 950149 140,31589 41,59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140,88060 41,45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140,63589 41,04322 -5.16 -1.46 1.54 1.86 2.36 9.81 950152 241,36796 40,96824 -9.81 -0.71 2.24 1.98 2.31	950142	142.56745	42.24773	-15.63	0.34	3.10	1.79	2.42	8.19
950145 140,00394 42,13085 -11,02 -1.47 5.45 2.04 2.56 9.29 950146 140,56850 42,09890 -8.17 -1.41 6.66 1.85 2.50 8.94 950147 140,80554 42,04297 -6.19 -1.92 5.29 2.03 2.72 9.38 950148 141,14077 41,83442 -12.85 3.44 -3.16 2.21 2.86 8.69 950149 140,31589 41,59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140,8050 41,45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140,63589 41,04322 -5.16 -1.46 1.54 1.86 2.36 9.81 950152 141,36796 40,96824 -9.81 -0.71 2.24 1.98 2.31 8.81 950153 141,19783 40,62507 -7.45 -1.05 0.54 1.92 2.27	950143	140.25048	42.24368	-11.70	-3.21	6.02	2.04	2.46	9.60
950146 140.56850 42.09890 -8.17 -1.41 6.66 1.85 2.50 8.94 950147 140.80554 42.04297 -6.19 -1.92 5.29 2.03 2.72 9.38 950148 141.14077 41.83442 -12.85 3.44 -3.16 2.21 2.86 8.69 950149 140.31589 41.59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140.88050 41.45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140.63589 41.04322 -5.16 -1.46 1.54 1.86 2.36 9.81 950152 141.36796 40.9824 -9.81 -0.71 2.24 1.98 2.31 8.81 950153 141.19783 40.62507 -7.45 -1.05 0.54 1.92 2.27 9.18 950154 139.92812 40.57764 -6.70 0.04 1.93 1.73 2.31	950144	142.93538	42.13094	-20.65	3.26	1.42	1.78	2.49	8.09
950147 140.80554 42.04297 -6.19 -1.92 5.29 2.03 2.72 9.38 950148 141.14077 41.83442 -12.85 3.44 -3.16 2.21 2.86 8.69 950149 140.31589 41.59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140.88050 41.45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140.63589 41.04322 -5.16 -1.46 1.54 1.86 2.36 9.81 950152 141.36796 40.96824 -9.81 -0.71 2.24 1.98 2.31 8.81 950153 141.19783 40.62507 -7.45 -1.05 0.54 1.92 2.27 9.18 950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950156 141.51128 40.51536 -10.46 -1.22 4.35 2.04 2.24	950145	140.00394	42.13085	-11.02	-1.47	5.45	2.04	2.56	9.29
950148 141.14077 41.83442 -12.85 3.44 -3.16 2.21 2.86 8.69 950149 140.31589 41.59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140.88050 41.45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140.63589 41.04322 -5.16 -1.46 1.54 1.86 2.36 9.81 950152 141.36796 40.96824 -9.81 -0.71 2.24 1.98 2.31 8.81 950153 141.19783 40.62507 -7.45 -1.05 0.54 1.92 2.27 9.18 950154 139.92812 40.57764 -6.70 0.04 1.93 1.73 2.31 9.16 950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950155 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43	950146	140.56850	42.09890	-8.17	-1.41	6.66	1.85	2.50	8.94
950149 140.31589 41.59903 -4.66 -2.46 3.56 1.99 2.47 9.73 950150 140.88050 41.45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140.63589 41.04322 -5.16 -1.46 1.54 1.86 2.36 9.81 950152 141.36796 40.96824 -9.81 -0.71 2.24 1.98 2.31 8.81 950153 141.19783 40.62507 -7.45 -1.05 0.54 1.92 2.27 9.18 950154 139.92812 40.57764 -6.70 0.04 1.93 1.73 2.31 9.16 950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950156 141.5128 40.51536 -10.46 -1.22 4.35 2.04 2.24 8.69 950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.23 <	950147	140.80554	42.04297	-6.19	-1.92	5.29	2.03	2.72	9.38
950150 140.88050 41.45530 -7.05 -1.16 2.17 1.75 2.36 8.72 950151 140.63589 41.04322 -5.16 -1.46 1.54 1.86 2.36 9.81 950152 141.36796 40.96824 -9.81 -0.71 2.24 1.98 2.31 8.81 950153 141.19783 40.62507 -7.45 -1.05 0.54 1.92 2.27 9.18 950154 139.92812 40.57764 -6.70 0.04 1.93 1.73 2.31 9.16 950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950156 141.51128 40.51536 -10.46 -1.22 4.35 2.04 2.24 8.69 950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43 9.73 950158 141.71314 40.40520 -11.07 -1.70 5.01 2.24 2.23	950148	141.14077	41.83442	-12.85	3.44	-3.16	2.21	2.86	8.69
950151 140.63589 41.04322 -5.16 -1.46 1.54 1.86 2.36 9.81 950152 141.36796 40.96824 -9.81 -0.71 2.24 1.98 2.31 8.81 950153 141.19783 40.62507 -7.45 -1.05 0.54 1.92 2.27 9.18 950154 139.92812 40.57764 -6.70 0.04 1.93 1.73 2.31 9.16 950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950156 141.51128 40.51536 -10.46 -1.22 4.35 2.04 2.24 8.69 950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43 9.73 950159 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32	950149	140.31589	41.59903	-4.66	-2.46	3.56	1.99	2.47	9.73
950152 141.36796 40.96824 -9.81 -0.71 2.24 1.98 2.31 8.81 950153 141.19783 40.62507 -7.45 -1.05 0.54 1.92 2.27 9.18 950154 139.92812 40.57764 -6.70 0.04 1.93 1.73 2.31 9.16 950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950156 141.51128 40.51536 -10.46 -1.22 4.35 2.04 2.24 8.69 950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43 9.73 950158 141.71314 40.40520 -11.07 -1.70 5.01 2.24 2.23 9.06 950169 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32	950150	140.88050	41.45530	-7.05	-1.16	2.17	1.75	2.36	8.72
950153 141.19783 40.62507 -7.45 -1.05 0.54 1.92 2.27 9.18 950154 139.92812 40.57764 -6.70 0.04 1.93 1.73 2.31 9.16 950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950156 141.51128 40.51536 -10.46 -1.22 4.35 2.04 2.24 8.69 950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43 9.73 950158 141.71314 40.40520 -11.07 -1.70 5.01 2.24 2.23 9.06 950159 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32 8.68 950161 141.22507 39.986937 -11.57 -2.69 3.17 2.02 2.12	950151	140.63589	41.04322	-5.16	-1.46	1.54	1.86	2.36	9.81
950154 139.92812 40.57764 -6.70 0.04 1.93 1.73 2.31 9.16 950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950156 141.51128 40.51536 -10.46 -1.22 4.35 2.04 2.24 8.69 950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43 9.73 950158 141.71314 40.40520 -11.07 -1.70 5.01 2.24 2.23 9.06 950159 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32 8.68 950161 141.2507 39.98058 -10.10 1.56 -3.52 1.85 2.34 8.99 950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12	950152	141.36796	40.96824	-9.81	-0.71	2.24	1.98	2.31	8.81
950155 140.57815 40.52365 -5.05 0.01 2.95 1.67 2.36 8.81 950156 141.51128 40.51536 -10.46 -1.22 4.35 2.04 2.24 8.69 950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43 9.73 950158 141.71314 40.40520 -11.07 -1.70 5.01 2.24 2.23 9.06 950159 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32 8.68 950161 141.95054 39.98058 -10.10 1.56 -3.52 1.85 2.34 8.99 950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12 9.23 950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32	950153	141.19783	40.62507	-7.45	-1.05	0.54	1.92	2.27	9.18
950156 141.51128 40.51536 -10.46 -1.22 4.35 2.04 2.24 8.69 950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43 9.73 950158 141.71314 40.40520 -11.07 -1.70 5.01 2.24 2.23 9.06 950159 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32 8.68 950161 141.2507 39.98058 -10.10 1.56 -3.52 1.85 2.34 8.99 950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12 9.23 950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32 9.12 950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25	950154	139.92812	40.57764	-6.70	0.04	1.93	1.73	2.31	9.16
950157 141.07648 40.29108 -5.81 1.06 0.82 2.02 2.43 9.73 950158 141.71314 40.40520 -11.07 -1.70 5.01 2.24 2.23 9.06 950159 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32 8.68 950161 141.22507 39.98058 -10.10 1.56 -3.52 1.85 2.34 8.99 950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12 9.23 950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32 9.12 950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25 9.10 950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51	950155	140.57815	40.52365	-5.05	0.01	2.95	1.67	2.36	8.81
950158 141.71314 40.40520 -11.07 -1.70 5.01 2.24 2.23 9.06 950159 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32 8.68 950161 141.22507 39.98058 -10.10 1.56 -3.52 1.85 2.34 8.99 950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12 9.23 950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32 9.12 950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25 9.10 950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51 9.81 950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09	950156	141.51128	40.51536	-10.46	-1.22	4.35	2.04	2.24	8.69
950159 141.29369 40.29115 -7.91 -0.23 0.83 2.22 2.25 8.94 950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32 8.68 950161 141.22507 39.98058 -10.10 1.56 -3.52 1.85 2.34 8.99 950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12 9.23 950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32 9.12 950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25 9.10 950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51 9.81 950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09 7.96 950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10	950157	141.07648	40.29108	-5.81	1.06	0.82	2.02	2.43	9.73
950160 141.46195 40.04860 -9.73 0.17 -1.79 2.13 2.32 8.68 950161 141.22507 39.98058 -10.10 1.56 -3.52 1.85 2.34 8.99 950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12 9.23 950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32 9.12 950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25 9.10 950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51 9.81 950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09 7.96 950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10 8.80 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08	950158	141.71314	40.40520	-11.07	-1.70	5.01	2.24	2.23	9.06
950161 141.22507 39.98058 -10.10 1.56 -3.52 1.85 2.34 8.99 950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12 9.23 950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32 9.12 950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25 9.10 950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51 9.81 950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09 7.96 950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10 8.80 950168 141.05455 39.36262 -13.41 5.68 -2.50 1.83 2.04 7.77 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 <td>950159</td> <td>141.29369</td> <td>40.29115</td> <td>-7.91</td> <td>-0.23</td> <td>0.83</td> <td>2.22</td> <td>2.25</td> <td>8.94</td>	950159	141.29369	40.29115	-7.91	-0.23	0.83	2.22	2.25	8.94
950162 141.95054 39.86937 -11.57 -2.69 3.17 2.02 2.12 9.23 950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32 9.12 950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25 9.10 950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51 9.81 950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09 7.96 950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10 8.80 950168 141.05455 39.36262 -13.41 5.68 -2.50 1.83 2.04 7.77 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 9.45 950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31	950160	141.46195	40.04860	-9.73	0.17	-1.79	2.13	2.32	8.68
950163 141.16486 39.85125 -11.42 2.85 -3.18 2.27 2.32 9.12 950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25 9.10 950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51 9.81 950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09 7.96 950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10 8.80 950168 141.05455 39.36262 -13.41 5.68 -2.50 1.83 2.04 7.77 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 9.45 950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31 9.04 950171 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01	950161	141.22507	39.98058	-10.10	1.56	-3.52	1.85	2.34	8.99
950164 141.80385 39.84918 -12.93 -1.85 0.60 2.26 2.25 9.10 950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51 9.81 950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09 7.96 950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10 8.80 950168 141.05455 39.36262 -13.41 5.68 -2.50 1.83 2.04 7.77 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 9.45 950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31 9.04 950171 141.57259 38.90286 -22.84 4.20 -0.02 1.80 2.04 8.68 950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01	950162	141.95054	39.86937	-11.57	-2.69	3.17	2.02	2.12	9.23
950165 140.96450 39.70109 -9.59 3.85 0.04 2.17 2.51 9.81 950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09 7.96 950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10 8.80 950168 141.05455 39.36262 -13.41 5.68 -2.50 1.83 2.04 7.77 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 9.45 950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31 9.04 950171 141.73985 39.02378 -22.84 4.20 -0.02 1.80 2.04 8.68 950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01 7.81 950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83	950163	141.16486	39.85125	-11.42	2.85	-3.18	2.27	2.32	9.12
950166 141.17211 39.59657 -12.87 4.35 -2.89 1.79 2.09 7.96 950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10 8.80 950168 141.05455 39.36262 -13.41 5.68 -2.50 1.83 2.04 7.77 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 9.45 950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31 9.04 950171 141.73985 39.02378 -22.84 4.20 -0.02 1.80 2.04 8.68 950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01 7.81 950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83 7.64	950164	141.80385	39.84918	-12.93	-1.85	0.60	2.26	2.25	9.10
950167 141.95526 39.45816 -15.88 -0.43 -1.14 1.86 2.10 8.80 950168 141.05455 39.36262 -13.41 5.68 -2.50 1.83 2.04 7.77 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 9.45 950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31 9.04 950171 141.73985 39.02378 -22.84 4.20 -0.02 1.80 2.04 8.68 950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01 7.81 950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83 7.64	950165	140.96450	39.70109	-9.59	3.85	0.04	2.17	2.51	9.81
950168 141.05455 39.36262 -13.41 5.68 -2.50 1.83 2.04 7.77 950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 9.45 950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31 9.04 950171 141.73985 39.02378 -22.84 4.20 -0.02 1.80 2.04 8.68 950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01 7.81 950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83 7.64	950166	141.17211	39.59657	-12.87	4.35	-2.89	1.79	2.09	7.96
950169 141.53416 39.33806 -17.10 3.86 -0.07 1.81 2.08 9.45 950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31 9.04 950171 141.73985 39.02378 -22.84 4.20 -0.02 1.80 2.04 8.68 950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01 7.81 950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83 7.64	950167	141.95526	39.45816	-15.88	-0.43	-1.14	1.86	2.10	8.80
950170 141.79804 39.25352 -18.65 2.81 0.31 2.23 2.31 9.04 950171 141.73985 39.02378 -22.84 4.20 -0.02 1.80 2.04 8.68 950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01 7.81 950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83 7.64	950168	141.05455	39.36262	-13.41	5.68	-2.50	1.83	2.04	7.77
950171 141.73985 39.02378 -22.84 4.20 -0.02 1.80 2.04 8.68 950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01 7.81 950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83 7.64	950169	141.53416	39.33806	-17.10	3.86	-0.07	1.81	2.08	9.45
950172 141.57259 38.90286 -24.60 4.58 1.03 1.68 2.01 7.81 950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83 7.64	950170	141.79804	39.25352	-18.65	2.81	0.31	2.23	2.31	9.04
950173 140.99058 38.81534 -19.43 6.09 -1.42 1.78 1.83 7.64	950171	141.73985	39.02378	-22.84	4.20	-0.02	1.80	2.04	8.68
	950172	141.57259	38.90286	-24.60	4.58	1.03	1.68	2.01	7.81
950174 140.80164 38.74894 -19.34 5.73 0.24 2.65 2.06 8.14	950173	140.99058	38.81534	-19.43	6.09	-1.42	1.78	1.83	7.64
	950174	140.80164	38.74894	-19.34	5.73	0.24	2.65	2.06	8.14

950175	141.44937	38.68270	-28.03	5.41	-0.65	1.89	1.89	7.98
950176	141.14754	38.53948	-25.29	5.72	-3.49	1.89	1.79	8.28
950177	140.85137	38.41176	-22.10	3.45	-0.96	1.76	1.78	8.72
950178	140.64285	38.20574	-21.10	0.99	-0.12	2.38	1.80	9.52
950179	140.84399	38.02966	-24.24	3.41	-2.91	1.91	1.65	8.51
950180	140.44257	37.98993	-18.28	1.15	2.66	1.96	1.74	9.09
950181	140.57735	40.32505	-5.50	4.42	6.52	1.83	2.40	8.78
950182	140.26366	40.27116	-5.45	1.76	4.90	1.61	2.16	8.82
950183	140.78733	40.21544	-5.21	2.31	1.15	1.76	2.21	9.15
950184	140.04547	40.23607	-5.52	1.61	6.18	1.59	2.27	8.27
950185	140.40199	40.00688	-5.53	2.53	3.62	1.67	2.12	9.49
950186	140.13238	39.93606	-3.98	1.68	4.74	1.62	2.15	8.15
950187	140.59704	39.74916	-6.17	1.85	2.48	2.08	2.57	8.91
950188	140.23421	39.65831	-3.08	3.01	2.77	1.82	2.14	8.87
950189	140.38662	39.54929	-7.19	3.34	0.98	1.71	2.20	8.32
950190	140.55978	39.32700	-5.35	3.22	-1.95	1.68	2.49	8.03
950191	139.90772	39.20606	-3.33	1.43	-0.12	1.68	1.87	8.41
950192	140.16198	39.16421	-7.92	3.03	2.99	2.24	2.36	10.47
950193	140.62958	39.05190	-11.94	7.77	2.55	1.81	3.51	9.02
950194	139.54766	39.18556	-0.06	0.53	3.20	1.45	2.13	8.87
950195	139.95737	38.75972	-9.77	1.11	2.46	1.56	1.97	8.62
950196	139.83177	38.59404	-8.85	1.26	5.05	1.97	1.95	9.44
950197	139.74225	38.14618	-12.46	1.06	3.96	1.80	1.77	9.99
950198	140.09353	37.96361	-15.44	1.62	2.88	1.61	1.62	8.58
950199	140.07757	38.19754	-15.73	4.47	0.39	2.22	1.92	9.79
950200	140.46649	37.68331	-20.83	0.34	-0.02	2.06	1.89	8.33
950201	140.75508	37.56055	-23.43	1.11	-1.08	1.91	1.72	9.77
950202	140.07268	37.56695	-15.90	-0.65	1.51	1.75	1.65	8.02
950203	141.00661	37.53369	-24.88	3.14	-1.18	1.82	1.57	8.23
950204	139.52863	37.47346	-10.13	-0.53	1.75	1.44	1.35	8.57
950205	140.66211	37.32547	-21.89	1.19	-0.71	2.01	1.63	7.84
950206	139.36435	37.30280	-8.56	-1.21	1.27	1.55	1.36	7.79
950207	139.50377	37.28149	-10.54	-0.54	1.19	1.48	1.39	8.40
950208	140.99424	37.28483	-23.81	1.99	-0.77	2.04	1.81	8.25
950209	139.87143	37.26107	-13.61	-1.81	2.25	1.66	1.50	8.28
950210	140.25993	37.12629	-17.97	-1.76	0.30	1.75	1.64	7.67
950211	140.56164	37.08930	-20.34	1.63	-1.02	1.81	1.79	7.89
950212	140.41327	36.86209	-19.53	0.64	1.06	1.63	1.72	7.69
950217	140.03926	36.85424	-17.57	-0.34	-0.38	1.62	1.76	7.83
950231	139.25335	38.46539	-3.19	-1.05	-1.13	1.67	1.88	8.42
950234	139.35146	37.92938	-9.47	0.57	0.25	1.51	1.50	8.48

950236	139.47789	37.68591	-9.66	0.09	2.33	1.49	1.43	8.64
950238	139.05912	37.66230	-6.32	-0.80	0.87	1.26	1.31	6.38
950239	138.99801	37.46772	-6.69	0.46	2.46	1.40	1.27	8.00
960501	141.16709	45.13771	5.63	-2.75	6.61	1.99	2.88	10.10
960502	142.96446	44.58204	-3.17	-2.01	4.22	2.02	2.64	9.32
960503	143.61567	44.21972	-5.27	0.96	2.86	1.80	2.45	8.93
960504	143.07682	44.19194	-4.32	0.73	4.57	2.13	2.91	14.28
960505	144.29330	43.98879	-11.81	0.27	2.15	1.93	3.13	8.59
960506	142.57771	43.90841	-5.08	0.06	3.84	1.81	2.76	12.61
960507	144.11525	43.82808	-9.80	4.66	5.97	1.96	2.98	11.07
960508	142.40961	43.73853	-8.54	0.16	4.38	1.84	2.42	9.22
960509	141.87384	43.74084	-5.42	-1.22	2.10	1.87	2.77	11.20
960510	142.90302	43.77142	-10.16	1.33	3.67	2.20	3.03	12.13
960511	143.57815	43.67050	-7.80	2.29	3.47	2.30	3.17	12.81
960512	145.25895	43.23210	-27.43	10.12	-2.71	2.68	3.33	10.67
960513	144.07962	43.43884	-15.70	6.37	2.60	2.53	4.72	11.81
960514	142.39534	43.33627	-13.26	1.07	2.44	2.21	2.80	11.80
960515	144.59766	43.30701	-24.07	10.85	-4.18	3.20	3.11	9.11
960516	141.89093	43.24841	-12.78	-1.74	2.86	1.71	2.35	8.74
960517	140.86061	43.20951	-5.44	-3.16	5.42	1.77	2.53	9.26
960518	142.80973	43.16553	-16.88	2.32	-0.50	2.37	2.63	9.63
960519	145.52050	43.19516	-30.80	10.81	-0.29	1.96	2.46	8.33
960520	141.54011	43.07759	-9.22	-3.06	-0.16	1.71	2.40	8.79
960521	143.17056	42.93887	-19.87	9.50	-0.52	1.75	2.50	8.42
960522	141.57741	42.88443	-9.64	-2.39	1.49	1.77	2.34	9.06
960523	141.40709	42.77319	-6.19	-2.57	4.20	1.98	2.86	11.16
960524	140.89907	42.55894	-6.78	-2.45	2.45	1.93	2.74	11.90
960525	140.76762	42.55138	-8.80	-2.43	9.59	1.94	2.84	11.14
960526	140.87637	42.47390	-6.97	-3.58	4.39	2.06	3.16	12.88
960527	139.44615	42.06051	-7.51	-5.21	-5.69	1.83	2.49	8.77
960528	140.66687	42.12314	-9.28	-0.22	5.50	1.78	2.49	8.86
960529	140.71543	41.97669	-6.71	-2.38	7.30	1.88	2.50	9.29
960530	140.07123	41.80303	-11.26	1.00	2.98	2.43	2.44	8.60
960531	144.71915	42.98257	-28.30	10.17	-1.83	1.88	2.45	8.54
960532	143.31568	42.12559	-26.81	7.01	1.93	2.50	2.46	8.96
960533	141.44759	41.40471	-11.09	0.07	3.02	1.99	2.41	8.92
960534	140.49077	41.18508	-4.63	0.40	-2.10	2.23	2.70	11.59
960535	140.82198	41.14555	-5.54	-1.41	6.09	2.04	2.69	12.44
960536	140.87164	40.91340	-6.87	-2.23	2.15	1.82	2.26	10.37
960537	141.13181	40.86236	-8.10	0.50	2.36	1.93	2.18	10.92
960538	140.58922	40.70628	-5.22	-1.02	1.71	1.74	2.32	9.23

960539	141.37621	40.67640	-10.09	-1.26	2.20	1.73	2.20	8.73
960540	140.47853	40.62435	-3.57	-2.12	-10.45	1.86	2.65	11.26
960541	140.80335	40.64357	-4.25	-0.54	1.25	1.89	2.66	12.52
960542	140.45156	40.91018	-4.52	-1.25	2.39	1.66	2.26	8.75
960543	141.06633	39.95308	-2.46	6.52	-2.59	2.80	3.32	11.29
960544	140.76918	39.35130	-12.07	5.44	-4.54	1.95	2.21	12.36
960545	141.27479	38.90026	-24.58	5.29	-6.42	2.72	2.43	10.61
960546	141.57549	39.14309	-19.71	3.96	-1.98	2.62	2.59	10.60
960547	141.67529	39.59613	-13.81	1.26	-1.14	2.75	2.70	11.68
960548	140.84787	38.54622	-20.50	3.87	-1.40	2.73	2.33	10.32
960549	141.21291	38.42506	-26.48	4.70	-1.66	2.58	2.19	10.06
960550	141.50069	38.30119	-30.02	5.19	-0.04	2.57	2.25	10.14
960551	139.84893	39.89113	-1.02	1.33	9.53	2.69	2.83	11.17
960552	140.04472	39.82581	-4.25	2.60	13.13	2.61	3.13	11.80
960553	140.73285	39.70268	-5.05	-0.14	-1.75	3.12	2.95	11.23
960554	140.50669	39.19910	-9.21	4.91	-3.90	2.58	2.55	10.52
960555	139.92749	39.01597	-6.30	1.74	0.56	2.45	2.31	10.50
960556	140.36515	38.49677	-21.65	-1.81	-11.42	2.68	2.44	10.47
960557	140.27114	38.14810	-15.21	2.75	2.15	2.03	2.07	10.33
960558	140.94630	37.81791	-24.29	2.66	0.24	2.02	2.04	9.83
960559	140.20565	37.61595	-17.07	-0.39	-1.81	2.92	2.49	9.83
960560	140.37290	37.62073	-19.68	-0.61	-1.61	4.27	2.35	11.78
960561	140.13588	37.42451	-17.04	-0.05	-2.71	2.48	2.15	10.15
960562	140.83425	37.32506	-22.35	2.25	-2.64	2.31	2.02	10.45
960563	139.58616	37.09725	-11.01	0.44	-3.71	2.12	2.40	10.17
960564	139.46168	38.05618	-10.15	0.83	1.50	2.16	2.01	9.94
960568	139.02025	37.31987	-7.73	-0.39	-0.39	1.53	1.70	10.60
960571	139.07391	37.75206	-6.01	-0.97	-2.57	1.25	1.39	6.83
960585	140.16476	36.95231	-16.99	-0.48	-1.52	1.72	1.93	9.26
960586	139.80575	36.97958	-13.90	-0.11	0.33	2.21	2.34	9.45
960757	141.20404	39.11047	-16.52	3.63	3.07	2.33	2.45	9.14
970778	141.59823	45.21977	2.98	-1.89	-0.75	1.83	2.57	9.48
970779	142.35184	45.12678	-1.14	-1.76	2.08	1.82	2.53	9.98
970780	142.71791	44.78017	-0.27	-1.22	3.57	2.15	2.54	10.47
970781	141.79391	44.63993	0.96	-2.65	4.60	1.67	2.50	8.81
970782	142.26453	44.36513	-2.16	-1.77	0.33	1.84	2.63	10.72
970783	141.66460	44.14875	-1.32	-1.56	1.95	1.68	2.42	8.88
970784	144.50641	43.72278	-14.31	3.85	-2.79	1.91	3.16	9.52
970785	141.37058	43.62433	-3.55	-2.87	4.02	1.72	2.38	9.13
970786	142.94727	43.33358	-15.33	3.34	-0.42	1.90	2.29	10.55
970787	142.64306	43.43164	-12.59	1.66	3.37	2.39	2.38	12.79

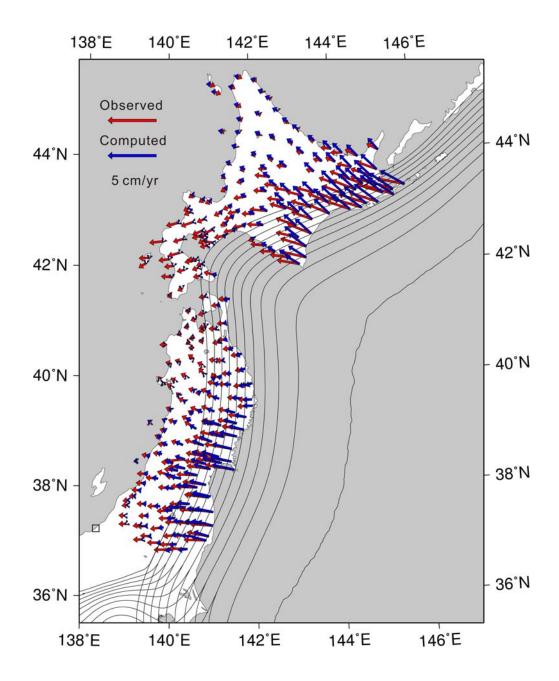
970788	143.90198	43.10169	-20.43	10.16	-8.68	1.95	2.46	8.70
970789	142.87005	43.01366	-16.75	5.40	-0.15	2.56	2.40	9.01
970790	142.08460	42.93377	-13.03	0.34	-0.78	1.76	2.26	9.22
970791	143.49497	42.80651	-20.96	8.45	-3.67	1.85	2.23	7.99
970792	141.08106	42.42055	-11.04	1.92	-1.45	3.16	3.18	9.19
970793	143.15196	42.48642	-23.35	5.86	-1.76	2.21	2.43	9.21
970794	140.37123	41.93485	-7.74	-1.81	4.88	1.90	2.23	9.73
970795	141.45259	39.84902	-12.87	0.73	0.69	1.72	1.93	9.33
970796	140.98846	39.12701	-10.60	4.08	-3.73	3.20	2.42	11.37
970797	140.64564	37.98441	-21.35	0.64	-2.64	2.48	1.91	10.70
970798	140.82291	40.04498	-5.36	6.26	1.85	2.33	2.53	9.92
970799	140.09463	38.43434	-12.19	1.00	2.06	2.65	2.05	10.57
970800	140.84165	37.01845	-23.23	0.82	0.82	2.10	2.10	9.87
970801	139.40223	37.03694	-10.01	-0.28	0.33	2.88	2.03	10.93
970803	140.19992	38.28898	-13.98	1.77	4.15	1.61	1.47	9.21
970805	139.22604	37.82816	-6.48	-0.14	-0.69	1.19	1.42	7.37

The horizontal (E, N) and vertical (U) velocity data are obtained from GEONET daily coordinates for 1996/06/01-2000/05/31 with the methods given by Sagiya et al.⁷. *1Relative velocities to the station 950241 (138.33357°E, 37.23112°N). *2Standard deviation.

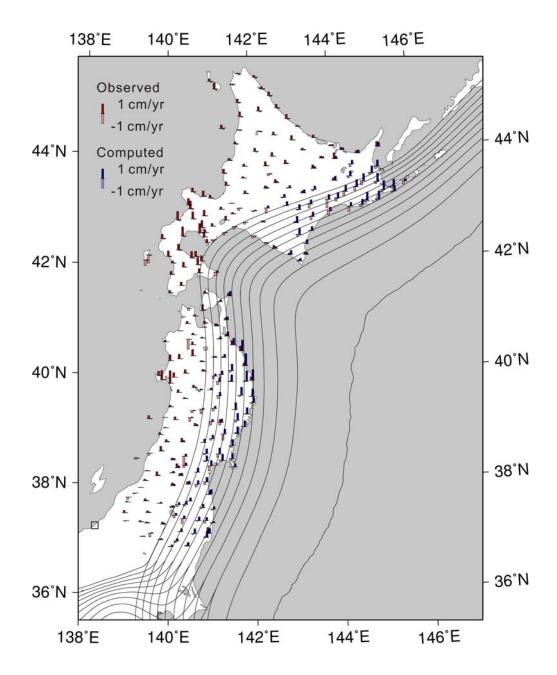
Supplementary Table 2 Large interplate earthquakes occurred in the last century along the Kuril-Japan trench.

Earthquake	Epicentre [°E, °N]	M _w (M)
1931 Sanriku-oki	143.33, 40.15	- (7.6)
1936 Miyagi-oki	142.13, 38.15	- (7.5)
1938 Fukushima-oki	142.18, 37.33	7.8 (7.5)
1938 Fukushima-oki	141.65, 37.28	7.7 (7.3)
1952 Tokachi-oki	144.13, 41.80	8.1 (8.2)
1968 Tokachi-oki ^{*1}	143.58, 40.73	8.2 (7.9)
1973 Nemuro-oki	145.95, 42.97	7.8 (7.4)
1973 Nemuro-oki	146.43, 43.29	7.5 (7.1)
1978 Miyagi-oki	142.17, 38.15	7.6 (7.4)
1994 Sanriku-haruka-oki	143.75, 40.43	7.8 (7.5)
2003 Tokachi-oki	144.08, 41.78	8.1*2 (8.0)

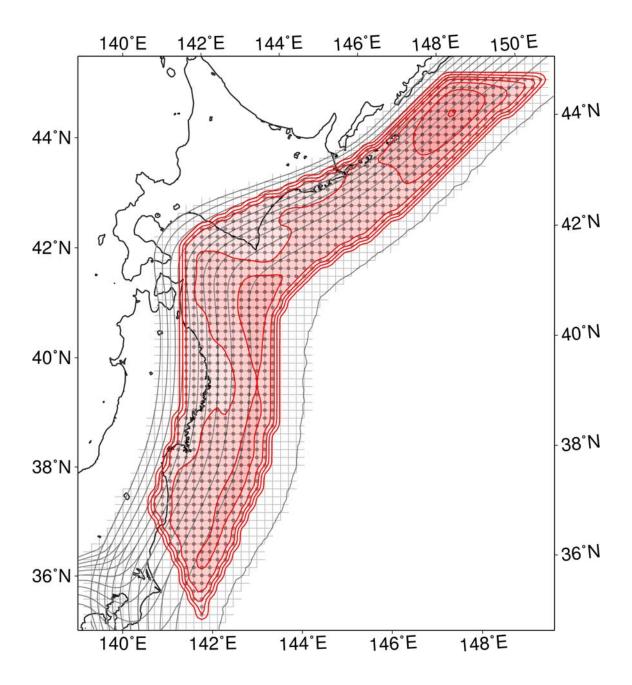
^{*1}Occurred in the Sanriku-oki region. *2Detrmined by Yagi²⁴.



Supplementary Figure 1 Comparison of observed and computed horizontal velocities. The red arrows indicate the observed horizontal velocity vectors (Table 1). The blue arrows indicate the horizontal velocity vectors computed from the inverted slip-deficit rate distribution.



Supplementary Figure 2 Comparison of observed and computed vertical velocities. The dark and light red bars indicate the observed uplift and subsidence rates (Table 1), respectively. The dark and light blue bars indicate the uplift and subsidence rates computed from the inverted slip-deficit rate distribution, respectively.



Supplementary Figure 3 Estimation errors of slip-deficit rates. The red contours show the estimation errors of slip-deficit rates at the interval of 1 cm/yr. The gray dots indicate the central points of bi-cubic B-splines distributed on the North American-Pacific plate interface.