

Additional file 2: Table S2 Tsunami heights on the Sanriku coast reported by Matsuo (1933) and computed from the 6 models.

No.	Location	in Japanese	Longitude	Latitude	Matsuo height (m)	2011 (L200km)	2011 (L150 km)	1896 inversion	1896 final	uniform 3.5-7 km	uniform 0-3.5km
1	Yagi	八木	141.7593	40.3486	18.3	5.58	5.58	8.39	7.70	7.87	4.88
2	Yagi	八木	141.7628	40.3476	10.5	5.58	5.58	8.43	7.70	7.89	4.88
3	Kuji-minato	久慈湊	141.7941	40.2035	11	5.77	6.32	5.44	4.75	4.56	2.80
4	Kosode	小袖	141.8462	40.1686	20.3	8.18	8.33	12.96	12.89	11.64	9.60
5	Kosode	小袖	141.8518	40.1679	20.3	4.83	5.31	7.58	7.32	6.10	5.53
6	Noda	野田	141.8351	40.1193	18.3	6.58	7.06	7.73	7.49	5.81	5.15
7	Noda	野田	141.8333	40.1174	20	6.74	7.31	7.79	7.38	5.95	5.71
8	Yoneda	米田	141.8218	40.0946	10.5	9.91	8.47	8.63	8.36	7.40	6.60
9	Tamagawa	玉川	141.8307	40.0807	20.3	9.80	10.65	10.14	9.59	7.74	7.53
10	Tamagawa	玉川	141.8329	40.0788	20.3	8.23	8.92	8.50	7.99	6.95	6.21
11	Horinouchi	堀内	141.8618	40.0521	20.3	8.82	9.31	8.45	9.05	8.11	6.22
12	Horinouchi	堀内	141.8638	40.0500	20.3	11.03	11.60	10.25	10.69	8.78	7.04
13	Horinouchi	堀内	141.8652	40.0514	18.3	7.42	7.81	7.04	7.00	6.17	4.92
14	Shirai	白井	141.8849	40.0323	24.3	17.42	18.77	12.82	14.44	12.74	10.61
15	Chikaramochi	力持	141.8860	40.0267	22.7	17.14	18.58	11.80	12.07	11.94	10.48
16	Fudai	普代	141.8840	40.0105	12	9.39	9.68	9.14	9.43	9.32	8.06
17	Ootanabe	太田名部	141.9030	40.0091	17.9	14.93	16.27	12.35	13.19	12.38	9.98
18	Ootanabe	太田名部	141.9038	40.0076	30.3	16.85	18.63	13.23	13.82	13.29	8.74
19	Raga	羅賀	141.9413	39.9399	24.3	17.95	18.87	12.41	15.42	15.02	10.96
20	Raga	羅賀	141.9374	39.9388	26.3	22.31	23.95	15.62	18.72	18.18	13.59
21	Raga	羅賀	141.9410	39.9376	24.3	18.33	19.18	12.77	15.31	15.23	9.63
22	Hiraiga	平井賀	141.9391	39.9343	19.3	19.67	21.08	12.11	15.63	15.03	9.08
23	Hiraiga	平井賀	141.9373	39.9345	20.3	19.00	20.26	12.62	16.01	15.45	10.71
24	Hiraiga	平井賀	141.9331	39.9363	14.3	14.86	15.95	12.96	10.39	9.70	7.99
25	Hiraiga	平井賀	141.9337	39.9329	16.3	19.69	20.58	12.96	16.41	16.02	7.99
26	Hiraiga	平井賀	141.9377	39.9320	18.3	18.01	19.17	12.19	14.61	14.32	10.40
27	Shimanokoshi	島越	141.9377	39.9169	15.3	17.13	18.15	11.30	12.77	12.44	9.94
28	Shimanokoshi	島越	141.9297	39.9155	14.3	12.11	14.19	11.81	15.35	14.62	9.75
29	Shimanokoshi	島越	141.9359	39.9154	14.3	19.06	19.98	11.73	14.41	13.88	9.88
30	Shimanokoshi	島越	141.9458	39.9100	19.9	16.04	16.35	13.19	15.33	15.28	12.10
31	Shimanokoshi	島越	141.9481	39.9101	24.1	17.22	17.95	13.45	16.32	16.24	12.16
32	Omoto	小本	141.9754	39.8524	10	18.55	18.83	9.99	11.90	11.84	11.39
33	Omoto	小本	141.9671	39.8425	11.8	13.28	13.10	8.20	11.25	11.31	6.29
34	Moshi	茂師	141.9780	39.8318	24	23.14	22.96	17.16	19.95	20.21	14.38
35	Moshi	茂師	141.9754	39.8313	17.7	16.00	16.10	18.83	14.60	14.63	14.59
36	ShimoKonari	下小成	141.9725	39.8275	18.8	22.99	23.11	18.83	21.75	21.77	14.59
37	Takahama	高浜	141.9512	39.6047	3.3	3.10	2.92	1.66	2.13	1.85	1.69
38	Kanehama	金浜	141.9419	39.5970	6.3	5.70	3.70	2.87	3.89	2.89	1.91
39	Ando	安渡	141.9117	39.3606	3.9	6.72	5.29	3.51	5.11	3.79	3.07
40	Otsuchi	大槌	141.9078	39.3554	4	5.26	4.13	3.15	4.20	3.57	2.70
41	Shiroishi	白石	141.9129	39.3482	4.1	7.99	5.64	2.26	4.93	3.56	3.02
42	Ryouishi	両石	141.8876	39.3108	11.7	19.43	10.34	8.94	10.12	11.32	6.35
43	Kamaishi	釜石	141.8936	39.2739	6	9.27	5.72	3.50	5.22	4.28	2.67
44	Ureishi	嬉石	141.8901	39.2634	7.2	6.21	4.54	2.67	4.20	3.01	2.90
45	Heita	平田	141.8880	39.2459	6.6	9.71	6.22	3.72	5.14	4.70	4.28
46	Kerobe	花露辺	141.8964	39.2095	13.8	18.79	8.86	5.18	12.25	10.53	6.92
47	Hongo	本郷	141.8789	39.2088	15.3	22.74	10.03	8.90	16.63	15.55	11.58
48	Hongo	本郷	141.8872	39.2078	15.3	20.98	9.45	8.10	15.36	13.71	10.14
49	Koshirahama	小白浜	141.8698	39.2073	14.3	20.01	10.24	6.50	12.54	9.58	5.53
50	Koshirahama	小白浜	141.8647	39.2053	17.3	23.36	11.82	7.57	12.73	11.09	7.78
51	Katagishi	片岸	141.8635	39.2028	16.3	22.80	12.03	8.04	13.38	10.95	5.99
52	Katagishi	片岸	141.8571	39.2048	14.8	16.33	7.88	8.04	8.15	6.36	5.99
53	Katagishi	片岸	141.8691	39.2000	12.3	19.15	10.21	6.09	10.35	8.14	4.89
54	ShimoArakawa	下荒川	141.8668	39.1946	13.3	17.32	8.25	5.15	9.45	7.20	4.93
55	ShimoArakawa	下荒川	141.8570	39.1924	13.3	19.22	10.17	6.57	11.00	8.93	5.95
56	Yoshihama	吉浜	141.8329	39.1490	26.3	25.98	15.38	10.59	16.22	13.81	9.50
57	Urahama	浦浜	141.8111	39.1199	11.3	16.24	8.96	5.29	8.77	7.81	5.49
58	Urahama	浦浜	141.8105	39.1161	11.3	15.20	9.06	5.83	9.08	7.93	6.10
59	Shirohama	白浜	141.8071	39.0569	38.2	32.60	21.11	11.54	24.24	19.69	13.48
60	Tahama	田浜	141.7997	39.0412	9	12.29	8.73	5.42	9.06	7.51	5.49
61	RyoryiMinato	綾里湊	141.7959	39.0411	11.8	11.84	7.13	3.98	7.52	6.47	5.41
62	Nonoda	野々田	141.7188	39.0615	5.8	5.44	3.77	2.21	3.69	2.90	2.12
63	Ishihama	石浜	141.7054	39.0262	12	22.33	9.56	4.60	11.48	8.26	4.81
64	Hosoura	細浦	141.7159	39.0140	7.3	9.44	3.90	1.69	3.93	2.58	1.79
65	Kamizaka	神坂	141.7164	39.0162	5.8	8.59	3.62	1.40	3.76	2.44	1.42
66	Tomari	泊里	141.7299	38.9926	7.3	13.51	6.96	4.24	6.03	4.69	4.11
67	Tomari	泊里	141.7279	38.9926	7.1	14.01	8.61	4.47	5.76	4.83	4.16
68	Tadaide	唯出	141.7097	38.9869	9.5	12.13	9.17	4.53	6.72	6.30	4.39
69	Nagahora	長洞	141.7080	38.9839	9.3	14.50	8.76	4.73	8.13	6.20	4.42
70	Tenoumae	天王前	141.6989	38.9637	9.3	12.56	5.83	4.00	6.19	5.78	3.73
71	Tomari	泊	141.6944	38.9573	8.3	8.47	4.91	2.54	5.28	3.93	2.67
72	Tomari	泊	141.6930	38.9590	9.3	7.98	4.91	2.54	5.28	3.93	2.67
73	Tomari	泊	141.6896	38.9579	9.4	9.03	5.33	2.66	6.05	4.48	2.66
74	Osabe	長部	141.6182	38.9916	4.6	6.67	4.31	2.28	4.32	3.03	1.93
75	OosawaMinato	大沢港	141.6327	38.9650	6.9	5.69	3.55	1.49	3.22	2.41	2.12
76	Oosawa	大沢	141.6346	38.9614	5.8	5.73	4.28	1.60	3.57	2.70	2.70
77	Oosawa	大沢	141.6291	38.9622	8.1	7.22	4.43	2.26	4.20	3.19	2.94
78	Iwaizawa	岩井沢	141.6358	38.9498	4.6	7.41	5.00	1.91	3.25	2.53	2.38
79	Iwaizawa	岩井沢	141.6365	38.9484	4.7	7.98	5.59	2.51	4.30	3.15	3.02
80	Tadakoshi	只越	141.6336	38.9316	7.9	16.61	10.36	5.62	9.10	7.68	5.10
81	Tadakoshi	只越	141.6319	38.9309	10.5	17.48	10.93	5.62	9.17	7.84	5.10
82	Tadakoshi	只越	141.6343	38.9293	9.3	16.37	9.58	5.34	8.68	6.97	4.99
83	Shirahama	白浜	141.6376	38.9273	10.3	13.59	8.15	4.32	7.32	5.73	4.47
84	Shirohama	白浜	141.6394	38.9268	9.5	12.72	8.49	4.18	8.65	6.23	4.42
85	Ishihama	石浜	141.6483	38.9125	11.9	14.78	10.62	5.41	10.34	8.86	6.12

86	Ishihama	石浜	141.6471	38.9134	9.2	14.27	10.51	5.41	10.47	7.26	6.12
87	Ootazawa	大田沢	141.6486	38.9100	13.9	14.78	10.05	4.64	10.03	7.45	5.81
88	Ootazawa	大田沢	141.6499	38.9085	11.7	15.42	9.99	4.71	10.14	8.01	5.57
89	Baba	馬場	141.6523	38.9068	11.2	14.88	10.45	4.73	8.61	6.89	5.22
90	Baba	馬場	141.6531	38.9056	10.9	16.02	10.49	5.33	11.53	9.72	7.41
91	Baba	馬場	141.6518	38.9046	11.6	17.37	10.71	6.28	12.15	10.02	8.90
92	Baba	馬場	141.6509	38.9025	9.9	18.14	13.01	6.42	12.56	10.75	9.01
93	Sasahama	笹浜	141.6647	38.8901	9.7	27.79	12.88	5.15	17.46	13.91	8.12
94	Sasahama	笹浜	141.6623	38.8881	10.9	23.36	13.53	5.89	15.43	11.72	7.78
95	Sasahama	笹浜	141.6627	38.8871	5.6	23.17	12.84	5.12	14.17	11.17	6.51
96	Takehama	欠浜	141.6634	38.8832	11.2	19.05	12.14	6.05	12.90	10.71	8.41
97	Takehama	欠浜	141.6626	38.8824	10.9	20.26	14.08	6.30	13.60	11.27	10.38
98	Takehama	欠浜	141.6632	38.8809	8.4	22.21	12.80	5.23	12.80	10.05	7.52
99	Ozaki	御崎	141.6692	38.8606	7.5	9.86	6.06	3.22	6.24	5.37	4.81
100	Ozaki	御崎	141.6681	38.8619	8	9.38	7.81	3.92	7.20	6.34	5.92
101	Kosaba	小鯖	141.6471	38.8825	5.1	8.51	4.82	2.13	4.75	3.70	2.76
102	Kosaba	小鯖	141.6455	38.8834	3	8.62	5.52	1.85	5.20	3.65	2.40
103	Kosaba	小鯖	141.6463	38.8849	7.9	9.18	5.85	2.12	5.61	4.06	2.93
104	Kosaba	小鯖	141.6438	38.8836	5.4	8.35	5.27	1.73	4.62	3.06	2.19
105	Magurotate	鯖立	141.6400	38.8871	3.5	4.43	3.00	1.32	2.61	2.08	1.56
106	Magurotate	鯖立	141.6422	38.8904	3.8	6.35	4.65	1.96	4.52	3.58	2.66
107	Magurotate	鯖立	141.6399	38.8908	4.4	5.61	4.25	1.76	3.91	3.04	2.34
108	Yadoura	宿浦	141.6370	38.9012	4.2	7.24	5.05	2.62	4.18	3.02	2.68
109	Yadoura	宿浦	141.6363	38.9025	3.4	7.11	4.86	2.48	4.01	2.92	2.55
110	Ura	浦	141.6332	38.9036	5.2	7.00	4.34	2.05	3.79	2.85	2.18
111	HigashiMaine	東舞根	141.6256	38.8994	6.3	6.25	4.40	2.17	3.69	2.96	2.51
112	NishiMaine	西舞根	141.6232	38.8986	4.3	6.26	4.41	2.15	3.73	2.96	2.48
113	Sotohama	外浜	141.6246	38.8841	3.8	3.93	2.49	1.01	1.83	1.32	1.22
114	Oohatsudaira	大初平	141.6298	38.8643	4.5	11.29	6.94	3.62	7.23	6.31	5.77
115	Sotobatake	外畑	141.6210	38.8630	8.3	10.22	8.47	3.93	6.83	5.17	4.34
116	Mawaridate	廻館	141.6202	38.8618	8.7	11.07	7.60	3.95	6.33	5.19	4.49
117	Mawaridate	廻館	141.6207	38.8611	6.9	10.31	8.11	3.72	6.65	4.64	4.10
118	Mawaridate	廻館	141.6204	38.8571	6.6	10.76	8.02	3.65	6.40	4.81	4.06
119	Mawaridate	廻館	141.6221	38.8588	4.8	9.60	6.81	2.57	5.29	4.10	2.74
120	Nagasaki	長崎	141.6225	38.8547	6.7	9.74	7.52	3.44	6.39	4.97	3.72
121	Ngasaki	長崎	141.6213	38.8522	7.6	10.03	7.63	3.68	6.15	4.82	4.17
122	Nakayama	中山	141.6221	38.8511	4.4	9.62	7.07	3.81	6.00	5.08	4.28
123	Nakayama	中山	141.6238	38.8501	3.6	9.61	6.32	3.01	4.77	3.59	3.06
124	Yokonuma	横沼	141.6198	38.8377	5.4	7.88	5.58	2.54	4.85	3.83	3.50
125	Komagata	駒形	141.6171	38.8396	4.7	5.00	4.06	1.91	3.71	2.96	2.20
126	Nakazawa	中沢	141.6155	38.8434	3.7	5.32	3.98	2.04	3.58	2.93	2.36
127	Yougai	要害	141.6136	38.8468	8.5	5.61	2.66	1.37	2.32	1.71	1.37
128	Sannohama	三ノ浜	141.6119	38.8857	2.5	6.54	4.36	1.55	4.10	2.85	1.83
129	Sannohama	三ノ浜	141.6106	38.8881	5.1	6.72	4.20	1.72	4.16	3.15	2.09
130	Sannohama	三ノ浜	141.6110	38.8838	4.1	6.13	3.84	1.67	3.96	3.17	2.08
131	Sannohama	三ノ浜	141.6088	38.8813	2.4	5.94	4.00	1.48	3.69	2.76	1.72
132	Katahama	片浜	141.5903	38.8745	1.1	3.57	2.26	1.17	1.99	1.39	1.19
133	Katahama	片浜	141.5832	38.8734	2.8	4.33	3.02	1.23	2.54	1.85	1.67
134	Senganda	千岩田	141.5846	38.8616	2.1	2.89	2.00	1.01	1.63	1.47	1.30
135	Dainosawa	台ノ沢	141.5831	38.8567	2	4.64	2.99	1.32	2.27	1.54	1.38
136	Saichi	最知	141.5819	38.8527	2.8	3.92	2.59	1.41	1.88	1.55	1.32
137	Mori	森	141.5818	38.8473	2.1	3.62	2.74	1.27	2.09	1.49	1.35
138	Nanahanzawa	七半沢	141.5870	38.8411	4.7	4.18	3.32	1.52	2.66	1.99	1.73
139	Hajikami	波路上	141.5894	38.8323	2.7	4.47	3.50	1.23	2.75	1.38	1.34
140	Hajikami	波路上	141.5927	38.8296	6.4	6.82	6.04	3.29	5.51	4.81	4.12
141	Suginoshita	杉ノ下	141.5883	38.8279	5.1	7.62	7.09	3.72	5.80	4.66	4.33
142	Suginoshita	杉ノ下	141.5911	38.8231	9.7	8.64	8.89	3.99	7.29	5.89	5.57
143	Suginoshita	杉ノ下	141.5892	38.8240	4	8.71	5.78	2.78	5.05	4.13	3.10
144	Suginoshita	杉ノ下	141.5876	38.8245	6.1	8.95	5.26	3.59	4.61	3.40	3.75
145	Ooya	大谷	141.5748	38.8177	7.3	8.06	7.14	2.92	5.06	4.22	3.99
146	Ooya	大谷	141.5764	38.8156	4.9	7.76	5.80	2.50	3.84	2.97	2.82
147	Ooya	大谷	141.5750	38.8125	9	11.60	9.42	3.61	7.03	6.34	5.46
148	Ooya	大谷	141.5715	38.8101	7.7	10.70	9.06	3.07	7.73	6.46	5.25
149	Ooya	大谷	141.5706	38.8126	8.4	9.91	5.95	2.89	5.37	3.61	3.10
150	Ooya	大谷	141.5641	38.8146	7.2	11.23	7.80	2.89	5.49	4.02	3.28
151	Hikado	日門	141.5608	38.8137	6.5	10.16	8.25	2.96	6.71	4.85	4.09
152	Maehama	前浜	141.5495	38.8028	9.5	11.62	9.62	3.36	8.39	6.87	5.68
153	Maehama	前浜	141.5502	38.8012	9.3	12.43	10.64	3.44	8.63	7.22	5.89
154	Akaushi	赤牛	141.5372	38.7995	10.5	10.99	10.38	3.24	7.81	5.96	4.96
155	Akaushi	赤牛	141.5362	38.7982	9	10.02	9.44	3.24	7.81	5.96	4.96
156	Oosawa	大沢	141.5300	38.7945	5	10.32	9.57	3.54	7.64	6.10	5.37
157	Oosawa	大沢	141.5281	38.7936	8.4	12.08	10.60	4.11	8.78	6.71	6.20
158	Tomezawa	登米沢	141.5186	38.7833	5.6	12.41	9.01	3.61	6.52	3.37	3.98
159	Tomezawa	登米沢	141.5179	38.7824	9.4	10.63	8.37	3.35	4.91	3.25	4.02
160	AkasakiKaigan	赤崎海岸	141.5180	38.7759	6.8	10.90	6.77	3.24	5.99	4.92	4.09
161	AkasakiKaigan	赤崎海岸	141.5166	38.7735	4.3	9.80	5.86	3.03	4.40	3.39	3.32
162	Koizumi	小泉	141.5045	38.7703	1.7	3.74	3.03	3.13	4.78	3.57	3.50
163	Koizumi	小泉	141.5086	38.7668	3.9	7.72	6.59	2.80	5.25	3.69	3.50
164	Koizumi	小泉	141.5161	38.7651	3.3	8.47	6.84	3.31	4.78	3.51	3.97
165	Nijuichihama	二十一浜	141.5193	38.7612	7.7	7.89	7.61	3.10	5.69	4.37	3.82
166	Nijuichihama	二十一浜	141.5185	38.7561	6.3	7.77	6.86	2.70	4.97	3.49	3.90
167	Nijuichihama	二十一浜	141.5201	38.7597	8.4	8.62	8.24	2.99	6.00	4.82	4.17
168	Kesaiso	今朝磯	141.5246	38.7581	6.2	10.64	8.95	2.82	6.51	4.88	3.79
169	Kesaiso	今朝磯	141.5272	38.7568	14	10.18	8.10	2.82	6.14	4.36	3.79
170	Kurauchi	蔵内	141.5265	38.7544	8.5	12.44	10.13	2.86	7.42	5.38	4.04
171	Kurauchi	蔵内	141.5278	38.7520	7.6	11.53	9.17	3.27	7.31	5.96	4.91
172	Namiita	浪板	141.5350	38.7409	6.7	9.07	7.23	2.31	5.18	3.38	2.90
173	Minato	港	141.5345	38.7382	5.4	7.99	7.31	2.31	5.96	4.00	2.90

174	Minato	港	141.5353	38.7396	7	7.94	6.49	2.31	5.26	3.98	2.90
175	Tanoura	田の浦	141.5444	38.7353	8.5	8.07	7.41	3.22	5.73	4.94	4.37
176	Tanoura	田の浦	141.5433	38.7337	3.7	8.24	7.55	3.16	5.60	4.37	3.89
177	Tanoura	田の浦	141.5456	38.7326	10.7	7.51	7.33	3.53	5.60	4.64	4.34
178	Ishihama	石浜	141.5623	38.7319	9.3	15.62	11.19	2.48	10.00	9.77	7.45
179	Ishihama	石浜	141.5604	38.7303	12.9	17.46	14.30	3.52	12.32	11.96	9.96
180	Ishihama	石浜	141.5603	38.7289	13	17.11	13.70	3.52	11.79	11.45	9.96
181	Natari	名足	141.5559	38.7239	10.5	15.18	12.32	4.79	8.83	7.74	7.13
182	Nakayama	中山	141.5549	38.7191	11.2	16.27	13.31	3.95	10.71	9.42	6.25
183	Baba	馬場	141.5588	38.7146	6.9	13.83	11.44	4.13	9.29	7.23	5.78
184	Tomarihama	泊浜	141.5590	38.6998	6.1	7.83	5.38	1.42	4.54	3.08	2.12
185	Tomarihama	泊浜	141.5596	38.7010	6.1	7.28	5.73	1.73	4.97	3.78	2.64
186	Tomarihama	泊浜	141.5591	38.7020	6.1	6.24	5.76	1.37	3.88	2.98	2.72
187	Tomarihama	泊浜	141.5590	38.7036	3.7	6.58	4.39	1.68	2.69	2.40	1.86
188	Tomarihama	泊浜	141.5589	38.7044	4.8	5.97	3.55	1.73	2.91	2.34	1.82
189	Tomarihama	泊浜	141.5585	38.7052	4.8	5.32	3.09	1.55	2.67	2.30	1.64
190	Inebuchi	稲淵	141.5473	38.7119	3.3	4.93	4.40	1.87	3.05	2.39	2.50
191	Inebuchi	稲淵	141.5450	38.7114	3.2	4.52	3.94	1.85	2.57	2.13	2.40
192	Inebuchi	稲淵	141.5439	38.7107	2.7	4.83	3.58	1.69	2.14	2.11	2.07
193	Tatehama	館浜	141.5401	38.7093	4.4	6.45	5.48	1.46	4.45	3.87	3.60
194	Tatehama	館浜	141.5393	38.7098	3.9	7.04	5.30	1.31	4.05	3.53	3.13
195	Tatehama	館浜	141.5378	38.7099	4.7	7.31	5.95	1.63	4.84	4.25	3.96
196	Tatehama	館浜	141.5373	38.7090	5.3	7.12	6.01	1.63	4.84	4.25	3.96
197	Kannohama	管の浜	141.5294	38.7178	4	8.05	6.94	2.75	5.45	3.66	3.38
198	Kannohama	管の浜	141.5259	38.7174	3.6	7.73	5.96	2.37	4.25	2.99	3.04
199	Irimae	伊里前	141.5232	38.7166	4.5	8.54	6.52	2.86	5.36	4.29	3.14
200	Irimae	伊里前	141.5220	38.7160	2.6	8.37	6.59	2.82	5.18	3.76	2.99
201	Irimae	伊里前	141.5221	38.7146	3.1	7.86	6.50	2.60	4.54	3.31	3.01
202	Yoriki	寄木	141.5217	38.7099	2.9	6.27	6.11	2.24	4.12	3.16	3.32
203	Yoriki	寄木	141.5207	38.7087	3.1	6.28	6.26	2.12	3.70	2.85	2.76
204	Yoriki	寄木	141.5203	38.7073	3.8	7.12	6.65	2.14	4.33	3.02	2.85
205	Niranohama	萑の浜	141.5084	38.6889	3.5	4.73	3.37	1.21	2.24	1.93	1.52
206	Niranohama	萑の浜	141.5066	38.6901	3.6	4.70	3.37	1.22	2.27	1.99	1.80
207	Niranohama	萑の浜	141.5057	38.6913	3.7	5.76	4.39	1.53	3.23	2.67	2.42
208	Hosoura	細浦	141.5000	38.6949	3.8	7.23	6.05	2.29	4.58	3.52	2.76
209	Hosoura	細浦	141.4991	38.6956	4.7	8.48	6.58	2.53	5.21	3.94	2.97
210	Hosoura	細浦	141.4975	38.6944	4.7	8.05	6.74	2.57	5.13	4.21	3.40
211	Shimizu	清水	141.4938	38.6897	5.9	5.78	4.45	1.94	3.32	2.44	2.19
212	Shimizu	清水	141.4904	38.6902	4.6	8.07	6.98	2.39	5.16	4.38	3.52
213	Arato	荒砥	141.4902	38.6761	3.4	5.03	3.40	1.02	2.66	2.38	2.24
214	Arato	荒砥	141.4871	38.6772	4.9	6.55	5.03	1.39	3.92	3.34	2.60
215	Hiraiso	平磯	141.4763	38.6801	7.5	5.38	4.64	1.82	3.29	1.87	1.96
216	Hiraiso	平磯	141.4726	38.6788	5.8	5.48	4.58	1.75	3.14	2.12	2.15
217	Sodehama	袖浜	141.4676	38.6741	4.6	6.37	5.22	1.34	3.55	2.71	2.39
218	Sodehama	袖浜	141.4659	38.6746	4.8	5.96	4.95	1.66	3.65	3.08	2.76
219	Sodehama	袖浜	141.4644	38.6738	4	5.65	4.53	1.59	3.35	2.68	2.35
220	Shizugawa	志津川	141.4525	38.6751	3.8	5.15	3.62	1.83	2.73	2.04	2.10
221	Shizugawa	志津川	141.4495	38.6749	2.5	5.05	3.45	1.91	2.74	2.19	2.21
222	Shizugawa	志津川	141.4484	38.6753	2.5	5.10	3.48	2.14	2.74	2.39	2.34
223	Shizugawa	志津川	141.4423	38.6736	1.9	5.17	3.69	2.09	2.88	2.54	2.35
224	Oritate	折立	141.4429	38.6497	3.9	4.82	3.88	1.72	2.93	2.39	2.42
225	Oritate	折立	141.4411	38.6472	3.6	6.23	4.42	2.37	3.61	3.05	2.67
226	Oritate	折立	141.4418	38.6437	2.5	6.08	4.26	2.35	3.51	2.85	2.55
227	Mitobe	水戸辺	141.4539	38.6427	2.9	4.40	2.94	1.28	2.03	1.73	1.69
228	Mitobe	水戸辺	141.4552	38.6423	2.7	4.25	2.88	1.41	2.34	2.18	2.04
229	Hadenya	波伝谷	141.4672	38.6458	3.1	5.13	4.19	1.57	2.96	1.94	1.95
230	Hadenya	波伝谷	141.4697	38.6447	2.9	4.74	4.21	1.61	2.64	1.92	1.93
231	Hadenya	波伝谷	141.4717	38.6446	3.4	4.12	4.08	1.56	2.69	1.64	1.76
232	Tsunomiya	津の宮	141.4820	38.6420	4.9	6.02	4.74	1.79	3.52	2.94	2.59
233	Tsunomiya	津の宮	141.4842	38.6414	4.1	5.60	4.64	1.82	3.53	2.61	2.35
234	Tsunomiya	津の宮	141.4861	38.6423	4.5	6.16	4.95	1.76	3.64	2.48	2.26
235	Takahama	滝浜	141.4898	38.6433	6	7.35	5.68	1.56	4.07	3.58	3.06
236	Takahama	滝浜	141.4923	38.6423	4.7	8.05	6.46	1.52	5.00	4.10	3.35
237	Fujihama	藤浜	141.5024	38.6388	7.5	9.22	7.48	2.27	5.26	4.69	3.81
238	Fujihama	藤浜	141.5047	38.6373	5.2	10.53	8.15	2.27	6.56	5.72	4.29
239	Nagashimizu	長清水	141.5094	38.6367	5.2	8.85	7.50	1.92	6.33	5.68	4.58
240	Nagashimizu	長清水	141.5115	38.6369	4.9	7.26	6.43	1.79	4.70	3.84	3.49
241	Terahama	寺浜	141.5186	38.6374	5.5	11.15	8.11	1.98	7.68	7.85	6.23
242	Terahama	寺浜	141.5203	38.6370	7.4	9.82	6.95	1.21	6.10	6.00	4.14
243	Arayashiki	荒屋敷	141.5302	38.5313	8.4	16.51	11.97	3.46	8.59	8.79	5.10
244	Okatsu	雄勝	141.4704	38.5219	3	6.58	4.74	2.07	3.08	2.61	2.40
245	Okatsu	雄勝	141.4687	38.5207	2.9	6.54	4.69	2.14	3.22	2.67	2.50
246	Okatsu	雄勝	141.4674	38.5186	3.1	7.05	4.83	2.18	3.31	2.76	2.53
247	Okatsu	雄勝	141.4662	38.5167	3.2	6.60	4.95	2.40	3.48	2.99	2.75
248	Okatsu	雄勝	141.4633	38.5145	4.8	7.38	5.58	2.93	4.10	3.60	3.35
249	Funato	舟戸	141.4648	38.5121	3.8	7.56	6.05	3.37	4.55	4.00	3.74
250	Funato	舟戸	141.4669	38.5133	3.6	7.37	5.50	2.75	4.09	3.43	3.15
251	Omae	御前	141.4755	38.4654	3.5	7.29	6.18	1.80	4.21	4.19	2.88
252	Omae	御前	141.4760	38.4639	2.9	7.51	6.04	1.68	3.51	3.76	2.54
253	Onagawa	女川	141.4460	38.4453	2.8	7.26	6.21	2.75	4.27	4.07	3.54
254	Onagawa	女川	141.4457	38.4442	2.7	7.42	6.19	2.57	4.41	3.95	3.45
255	Onagawa	女川	141.4445	38.4419	2.8	7.26	5.99	2.58	3.88	3.21	3.23
256	Onagawa	女川	141.4461	38.4408	3.1	7.06	5.71	2.50	3.62	3.10	3.13
257	Onagawa	女川	141.4486	38.4411	3.3	6.68	5.35	2.10	3.21	2.76	2.76
258	Yoriiso	寄磯	141.5259	38.3897	2.3	5.83	3.86	1.86	2.93	2.59	2.50
259	Sameura	鮫浦	141.4880	38.3816	2.6						
260	Ooyagawa	大谷川	141.4813	38.3749	2	9.08	6.80	2.86	4.09	3.68	3.35
261	Yagawa	谷川	141.4899	38.3671	3	9.35	6.63	2.80	3.97	3.58	3.28

$K =$	0.73	0.96	2.03	1.14	1.40	1.72
$\kappa =$	1.55	1.49	1.47	1.41	1.44	1.47