

**Tabel 1. Data Old Faithful geyser**

Data terdiri dua variabel.  $X_i$  adalah lamanya waktu (dalam menit) letusan dari Old Faithful geyser di Yellowstone National Park. Berhubungan dengan observasi  $Y_i$  adalah waktu tunggu (dalam menit) terjadinya letusan berikutnya.

$i$	$X_i$	$Y_i$	$i$	$X_i$	$Y_i$	$i$	$X_i$	$Y_i$	$i$	$X_i$	$Y_i$
1	3.6	79	44	1.883	53	87	4.067	73	130	4.5	82
2	1.8	54	45	4.567	84	88	4.933	88	131	2.267	55
3	3.333	74	46	1.75	58	89	3.95	76	132	4.65	90
4	3.333	74	47	4.533	73	90	4.517	80	133	1.867	45
5	3.333	74	48	3.317	83	91	2.167	48	134	4.167	83
6	2.283	62	49	3.833	64	92	4	86	136	4.333	89
7	4.533	85	50	2.1	53	93	2.2	60	137	1.833	46
8	2.883	55	51	4.633	82	94	4.333	90	138	4.383	82
9	4.7	88	52	2	59	95	1.867	50	139	1.883	51
10	3.6	85	53	4.8	75	96	4.817	78	140	4.933	86
11	1.95	51	54	4.716	90	97	1.833	63	141	2.033	53
12	4.35	85	55	1.833	54	98	4.3	72	142	3.733	79
13	1.833	54	56	4.833	80	99	4.667	84	143	4.233	81
14	3.917	84	57	1.733	54	100	3.75	75	144	2.233	60
15	4.2	78	58	4.883	83	101	1.867	51	145	4.533	82
16	1.75	47	59	3.717	71	102	4.9	82	146	4.817	77
17	4.7	83	60	1.667	64	103	2.483	62	147	4.333	76
18	2.167	52	61	4.567	77	104	4.367	88	148	1.983	59
19	1.75	62	62	4.317	81	105	2.1	49	149	4.633	80
20	4.8	84	63	2.233	55	106	4.5	83	150	2.017	49
21	1.6	52	64	4.5	84	107	4.05	81	151	5.1	96
22	4.25	79	65	1.75	48	108	1.867	47	152	1.8	53
23	1.8	51	66	4.8	82	109	4.7	84	153	5.033	77
24	1.75	47	67	1.817	60	110	1.783	52	154	4	77
25	3.45	78	68	4.4	92	111	4.85	86	155	2.4	65
26	3.067	69	69	4.167	78	112	3.683	81	156	4.6	81
27	4.533	74	70	4.7	78	113	4.733	75	157	3.567	71
28	3.6	83	71	2.067	65	114	2.3	59	158	4	70
29	1.967	55	72	4.7	73	115	4.9	89	159	4.5	81
30	4.083	76	73	4.033	82	116	4.417	79	160	4.083	93
31	3.85	78	74	1.967	56	117	1.7	59	161	1.8	53
32	4.433	79	75	4.5	79	118	4.633	81	162	3.967	89
33	4.3	73	76	4	71	119	2.317	50	163	2.2	45
34	4.467	77	77	1.983	62	120	4.6	85	164	4.15	86
35	3.367	66	78	5.067	76	121	1.817	59	165	2	58
36	4.033	80	79	2.017	60	122	4.417	87	166	3.833	78
37	3.833	74	80	4.567	78	123	2.617	53	167	3.5	66
38	2.017	55	81	3.883	76	124	4.067	69	168	4.583	76
39	1.867	48	82	3.6	83	125	4.25	77	169	2.367	63
40	4.833	80	83	4.133	75	126	1.967	56	170	5	88
41	1.833	59	84	4.333	82	127	4.6	88	171	1.933	52
42	4.783	90	85	4.1	70	128	3.767	81	172	4.617	93
43	4.35	80	86	2.633	65	129	1.917	45	173	1.917	49

i	$X_i$	$Y_i$	i	$X_i$	$Y_i$
174	2.083	57	225	1.75	54
175	4.583	77	226	4.483	75
176	3.333	68	227	4	78
177	4.167	81	228	4.117	79
178	4.333	81	229	4.083	78
179	4.5	73	230	4.267	78
180	2.417	50	231	3.917	70
181	4	85	232	4.55	79
182	4.167	74	233	4.083	70
183	1.883	55	234	2.417	54
184	4.583	77	235	4.183	86
185	4.25	83	236	2.217	50
186	3.767	83	237	4.45	90
187	2.033	51	238	1.883	54
188	4.433	78	239	1.85	54
189	4.083	84	240	4.283	77
190	1.833	46	241	3.95	79
191	4.417	83	242	2.333	64
192	2.183	55	243	4.15	75
193	4.8	81	244	2.35	47
194	1.833	54	245	4.933	86
195	4.8	76	246	2.9	63
196	4.1	84	247	4.583	85
197	3.966	77	248	3.833	82
198	4.233	81	249	2.083	57
199	3.5	87	250	4.367	82
200	4.366	77	251	2.133	67
201	2.25	51	252	4.35	74
202	4.667	78	253	2.2	54
203	2.1	60	254	4.45	83
204	4.35	82	255	3.567	73
205	4.133	91	256	4.5	73
206	1.867	53	257	4.15	88
207	4.6	78	258	3.817	80
208	1.783	46	259	3.917	71
209	4.367	77	260	4.45	83
210	3.85	84	261	2	56
211	1.933	49	262	4.283	79
212	4.5	83	263	4.767	78
213	2.383	71	264	4.533	84
214	4.7	80	265	1.85	58
215	1.867	49	266	4.25	83
216	3.833	75	267	1.983	43
217	3.417	64	268	2.25	60
218	4.233	76	269	4.75	75
219	2.4	53	270	4.117	81
220	4.8	94	271	2.15	46
221	2	55	272	4.417	90
222	4.15	76	273	1.817	46
223	1.867	50	274	4.467	74
224	4.267	82			



**Tabel 2. : Running example in Part II : regression smoothing**

i	$X_i$	$Y_i$	i	$X_i$	$Y_i$	i	$X_i$	$Y_i$
1	0.0048	-0.0038	46	0.1933	0.5247	91	0.3659	0.0219
2	0.0085	0.1653	47	0.1946	-0.0772	92	0.3661	0.1779
3	0.0115	0.0246	48	0.2026	0.3431	93	0.3698	-0.1062
4	0.017	0.1781	49	0.202	0.0262	94	0.3729	-0.5436
5	0.0264	-0.3461	50	0.2041	-0.342	95	0.3761	0.2955
6	0.0294	-0.7558	51	0.2064	0.3578	96	0.3794	0.0162
7	0.0302	0.3548	52	0.2094	-0.0152	97	0.3831	-0.1802
8	0.0319	0.0406	53	0.2155	-0.8873	98	0.3911	0.0663
9	0.0339	0.1052	54	0.2281	0.3099	99	0.395	-0.5307
10	0.034	0.1218	55	0.2307	0.0679	100	0.3973	-0.4286
11	0.035	-0.1357	56	0.2363	0.3396	101	0.399	-0.2261
12	0.0422	-0.0321	57	0.2367	0.3153	102	0.4022	0.0885
13	0.0438	0.0869	58	0.2424	0.0447	103	0.4025	-0.0272
14	0.0476	0.5022	59	0.2449	0.1054	104	0.4047	-0.1151
15	0.0567	-0.2257	60	0.2466	0.1153	105	0.4079	0.3161
16	0.0683	-0.282	61	0.2471	-0.4192	106	0.4121	0.0018
17	0.0737	0.2981	62	0.2522	0.5095	107	0.4243	0.1482
18	0.0745	-0.0034	63	0.2625	-0.2397	108	0.4256	0.047
19	0.0787	-0.7478	64	0.2648	0.0584	109	0.4288	-0.0514
20	0.0794	-0.3247	65	0.266	-0.1619	110	0.4284	-0.5026
21	0.0823	-0.1749	66	0.2675	0.1782	111	0.4407	0.0534
22	0.0821	0.1134	67	0.2702	0.216	112	0.447	0.1841
23	0.0905	0.5562	68	0.2757	-0.1188	113	0.4569	0.5655
24	0.0913	-0.31	69	0.2783	0.1132	114	0.4608	0.2933
25	0.0985	-0.3099	70	0.2799	0.2409	115	0.4652	-0.2126
26	0.1002	-0.2673	71	0.2803	0.3184	116	0.4693	0.2161
27	0.1044	0.2724	72	0.2818	0.1964	117	0.4706	0.0375
28	0.1081	-0.3172	73	0.2886	0.0324	118	0.4835	0.5253
29	0.1155	0.3783	74	0.2975	0.1157	119	0.4845	0.5789
30	0.1221	-0.046	75	0.2973	-0.3905	120	0.5028	-0.0204
31	0.1241	0.153	76	0.2989	-0.243	121	0.5032	0.367
32	0.1276	0.2482	77	0.3029	-0.2518	122	0.505	0.678
33	0.1241	0.1283	78	0.3057	-0.235	123	0.5073	0.5073
34	0.1323	-0.1233	79	0.3072	-0.5152	124	0.5114	0.1327
35	0.1359	-0.4943	80	0.3174	-0.3485	125	0.5149	0.7265
36	0.1392	-0.3817	81	0.3202	-0.6031	126	0.5152	0.3677
37	0.0821	-0.3337	82	0.3249	0.0182	127	0.5128	0.3191
38	0.1545	0.1339	83	0.3258	0.3087	128	0.5252	0.724
39	0.1627	0.2748	84	0.3308	-0.1147	129	0.5302	0.229
40	0.1677	0.404	85	0.3362	-0.266	130	0.5326	0.5279
41	0.1729	-0.5876	86	0.336	0.0063	131	0.5334	-0.252
42	0.1751	-0.0107	87	0.3412	-0.2378	132	0.537	0.9438
43	0.176	-0.1221	88	0.3581	-0.4265	133	0.5411	0.5713
44	0.1781	0.2774	89	0.3613	-0.3158	134	0.5434	0.6463
45	0.1874	0.0706	90	0.3637	0.0293	135	0.5454	0.579

136	0.5509	0.8334	185	0.7481	0.102	234	0.9273	-0.8742
137	0.5533	0.7302	186	0.7509	0.5412	235	0.9308	-0.2599
138	0.5545	0.5654	187	0.751	0.1226	236	0.9319	-0.4538
139	0.5578	0.6788	188	0.7614	-0.331	237	0.9379	-1.085
140	0.5651	0.8594	189	0.7715	-0.3861	238	0.9394	0.6159
141	0.5661	0.5129	190	0.7743	0.069	239	0.942	-0.3759
142	0.5706	0.8231	191	0.7814	0.0781	240	0.9507	-0.4732
143	0.5746	1.2506	192	0.7826	-0.4173	241	0.9633	-0.8473
144	0.5759	0.5716	193	0.7839	-0.4989	242	0.9677	-0.0284
145	0.579	0.7851	194	0.7842	0.0725	243	0.9758	-0.7859
146	0.5833	0.9613	195	0.7883	0.0899	244	0.9774	-0.667
147	0.5843	1.7133	196	0.7932	0.1328	245	0.9786	-0.0265
148	0.5884	0.9176	197	0.7986	0.0193	246	0.978	-0.1319
149	0.5987	0.9854	198	0.7987	0.1028	247	0.9809	0.0128
150	0.6042	0.8078	199	0.7998	-0.1636	248	0.9829	-0.6911
151	0.6057	1.4615	200	0.8006	-0.2891	249	0.9825	0.2091
152	0.6068	0.4984	201	0.8046	-0.1298	250	0.9836	0.0791
153	0.6126	1.2337	202	0.804	0.4481	251	0.9855	0.7686
154	0.6149	1.3186	203	0.8107	0.0473	252	0.9879	0.2407
155	0.6166	1.0639	204	0.8253	-0.0893	253	0.9889	-0.356
156	0.6209	0.9208	205	0.826	-0.0073	254	0.9922	0.1755
157	0.6207	1.6082	206	0.8311	0.2942	255	0.9962	-0.0328
158	0.6215	0.7264	207	0.8343	0.1293	256	0.9975	0.0124
160	0.6269	0.7785	208	0.8354	0.6333			
161	0.6315	0.9216	209	0.8416	-0.383			
162	0.632	1.1145	210	0.8441	0.2036			
163	0.6408	0.9432	211	0.849	-0.1411			
164	0.6415	0.7897	212	0.8579	-0.1571			
165	0.6421	0.6644	213	0.8599	-0.8599			
166	0.6526	1.277	214	0.8617	-0.1759			
166	0.6551	1.1115	215	0.8779	-0.5771			
167	0.6592	1.2631	216	0.8718	-0.715			
168	0.6665	0.8758	217	0.8885	-0.7699			
169	0.668	0.785	218	0.8903	-1.1132			
170	0.6763	0.625	219	0.8912	-0.5134			
171	0.682	0.9708	220	0.8921	-0.7434			
172	0.6853	0.5103	221	0.8939	-0.9769			
173	0.6855	0.0847	222	0.8947	-0.8994			
174	0.6893	1.4361	223	0.8957	-0.8839			
175	0.6912	0.9662	224	0.8984	-1.0315			
176	0.6935	0.1672	225	0.901	-0.7367			
177	0.6957	1.2438	226	0.905	-0.9453			
178	0.7005	0.9202	227	0.9089	-1.1778			
179	0.7089	0.7326	228	0.9102	-0.9553			
180	0.7155	0.4778	229	0.9127	-1.2653			
181	0.7197	-0.0666	230	0.9128	-1.3374			
182	0.7286	0.7913	231	0.9258	-0.9015			
183	0.7287	0.8954	232	0.9266	-0.4505			
184	0.7404	0.8218	233	0.9261	-0.6457			

Hardel, W.,(1991) "Smoothing Techniques With Implementation in S"

This document copyright owner(s) agree that UNDIP-IR may, without changing the content, translate the submission to any medium or format for the purpose of preservation. The author(s) or copyright owner(s) also agree that UNDIP-IR may keep more than one copy of this submission for purpose of security, back-up and preservation:

( <http://eprints.undip.ac.id> )



Tabel 3. ; Hasil Perhitungan dengan Program Aplikasi MathCAD

x	m	e	y	$Y_h$ h=0.1	$Y_h$ h=0.05	$Y_h$ h=0.065	$Y_h$ h=0.0625
0.00606	0	0.0025	0.0025	-0.01256	0.00812	0.00139	0.00217
0.00641	0	4.52E-04	4.52E-04	-0.01488	0.00239	-0.00129	-7.47E-04
0.00855	0	-0.00318	-0.00318	-0.01684	-0.00175	-0.00333	-0.00291
0.00905	0	-0.00293	-0.00293	-0.02065	-0.00768	-0.00679	-0.00644
0.01067	0	-0.00278	-0.00278	-0.02775	-0.01199	-0.01264	-0.01188
0.01195	1.23E-15	8.78E-04	8.78E-04	-0.03017	-0.0121	-0.01479	-0.0138
0.01355	3.83E-15	-0.00127	-0.00127	-0.03082	-0.01208	-0.01541	-0.01435
0.01366	4.10E-15	0.00412	0.00412	-0.03223	-0.012	-0.01681	-0.01561
0.01938	9.55E-14	-0.00436	-0.00436	-0.0339	-0.01192	-0.01861	-0.01724
0.0321	8.96E-12	0.0012	0.0012	-0.03398	-0.01192	-0.01871	-0.01733
0.03244	9.87E-12	0.00138	0.00138	-0.03482	-0.01193	-0.01969	-0.01823
0.03567	2.32E-11	0.00557	0.00557	-0.04094	-0.01462	-0.02855	-0.02673
0.0431	1.27E-10	-0.00205	-0.00205	-0.0423	-0.01627	-0.03099	-0.02918
0.05155	6.37E-10	0.00174	0.00174	-0.04549	-0.02244	-0.03751	-0.03587
0.05821	1.90E-09	0.00489	0.00489	-0.05261	-0.05103	-0.05627	-0.056
0.06032	2.62E-09	-0.00576	-0.00576	-0.05959	-0.09555	-0.07925	-0.08149
0.06144	3.09E-09	0.00414	0.00414	-0.06164	-0.10772	-0.08602	-0.08898
0.07049	1.07E-08	-0.00332	-0.00332	-0.06186	-0.10884	-0.08672	-0.08974
0.07656	2.24E-08	0.00145	0.00145	-0.06271	-0.1118	-0.08892	-0.0921
0.08357	4.93E-08	-0.00333	-0.00333	-0.0628	-0.11184	-0.08906	-0.09223
0.08435	5.36E-08	-0.00393	-0.00393	-0.06296	-0.11065	-0.0889	-0.09196
0.08646	6.70E-08	0.00134	0.00134	-0.06296	-0.1108	-0.08895	-0.09202
0.08964	9.27E-08	-0.00606	-0.00606	-0.06183	-0.09711	-0.08281	-0.08489
0.09554	1.65E-07	-3.92E-04	-3.92E-04	-0.0616	-0.0951	-0.08183	-0.08378
0.09852	2.17E-07	0.00131	0.00131	-0.05851	-0.07324	-0.07096	-0.0715
0.09878	2.22E-07	0.00463	0.00463	-0.05753	-0.06745	-0.06802	-0.06821
0.10161	2.86E-07	-0.00389	-0.00389	-0.05475	-0.05317	-0.06053	-0.05992
0.1047	3.75E-07	-0.00122	-0.00122	-0.05188	-0.04162	-0.05401	-0.05282
0.10885	5.32E-07	0.00151	0.00151	-0.04511	-0.02542	-0.04233	-0.04058
0.11258	7.21E-07	5.89E-04	5.89E-04	-0.03807	-0.02126	-0.03419	-0.03275
0.11394	8.03E-07	6.20E-04	6.21E-04	-0.03579	-0.02175	-0.03213	-0.03092
0.11775	1.08E-06	0.00165	0.00165	-0.03164	-0.02393	-0.02884	-0.02813
0.11802	1.10E-06	0.0026	0.0026	-0.03579	-0.02175	-0.03213	-0.03092
0.12301	1.60E-06	0.00295	0.00295	-0.02585	-0.02795	-0.02469	-0.02476
0.12693	2.12E-06	0.00284	0.00284	-0.02127	-0.03025	-0.02135	-0.02197
0.1311	2.84E-06	8.23E-04	8.25E-04	-0.017	-0.03055	-0.0179	-0.0189
0.13548	3.81E-06	-0.00219	-0.00219	-0.06296	-0.1108	-0.08895	-0.09202
0.13549	3.82E-06	0.00147	0.00148	0.00265	0.00146	0.00565	0.00519
0.14036	5.25E-06	-4.77E-04	-4.71E-04	0.01235	0.02675	0.02063	0.02135
0.14406	6.63E-06	-0.00273	-0.00272	0.01775	0.03794	0.02852	0.02979
0.14536	7.19E-06	0.00669	0.00669	0.02288	0.04562	0.03488	0.03646
0.14654	7.73E-06	-0.00391	-0.0039	0.0249	0.04781	0.03694	0.03856
0.14857	8.75E-06	-0.00536	-0.00535	0.0257	0.04854	0.03767	0.03929
0.15028	9.69E-06	0.00122	0.00123	0.0275	0.04989	0.03913	0.04072
0.15104	1.01E-05	-0.00452	-0.00451	0.0345	0.05016	0.042	0.043

x	m	e	y	Y <sub>h</sub>	Y <sub>h</sub>	Y <sub>h</sub>	Y <sub>h</sub>
				h=0.1	h=0.05	h=0.065	h=0.0625
0.15124	1.03E-05	-0.0013	-0.00129	0.03817	0.04567	0.04175	0.04206
0.15525	1.30E-05	0.00276	0.00278	0.03891	0.04427	0.0416	0.04174
0.15634	1.38E-05	-0.0018	-0.00179	0.04286	0.03442	0.04094	0.04006
0.15694	1.43E-05	-0.00288	-0.00286	0.0426	0.03513	0.04094	0.04013
0.1572	1.45E-05	-0.00274	-0.00273	0.04349	0.03274	0.041	0.03996
0.15856	1.57E-05	0.00347	0.00348	0.0444	0.03061	0.04129	0.04004
0.15923	1.63E-05	-0.00323	-0.00322	0.04544	0.02898	0.04207	0.04064
0.16984	2.91E-05	-0.00396	-0.00393	0.04708	0.03127	0.04528	0.04387
0.1725	3.35E-05	0.00198	0.00201	0.04773	0.05784	0.05717	0.05726
0.17256	3.36E-05	-0.00233	-0.0023	0.04729	0.06421	0.0598	0.0603
0.17536	3.89E-05	0.00171	0.00175	0.04549	0.07511	0.0646	0.06591
0.17766	4.37E-05	0.0021	0.00214	0.04531	0.07569	0.06488	0.06624
0.1801	4.94E-05	0.00164	0.00169	0.04207	0.08081	0.06756	0.0695
0.18187	5.40E-05	4.61E-04	5.15E-04	0.04018	0.0813	0.06786	0.07
0.18774	7.18E-05	-1.62E-04	-9.01E-05	0.03874	0.08111	0.06773	0.06997
0.1927	9.08E-05	9.99E-04	0.00109	0.03829	0.08098	0.06763	0.06991
0.19337	9.36E-05	7.87E-04	8.81E-04	0.03298	0.0782	0.06523	0.06775
0.19475	9.99E-05	-5.39E-04	-4.40E-04	0.0184	0.06686	0.0517	0.05459
0.19671	1.09E-04	-0.00143	-0.00132	0.01446	0.06327	0.047	0.04994
0.19904	1.21E-04	9.29E-04	0.00105	0.01231	0.06117	0.0443	0.04726
0.19938	1.23E-04	4.77E-04	6.00E-04	0.00953	0.05829	0.04068	0.04364
0.21384	2.31E-04	-0.00295	-0.00272	0.0043	0.05225	0.03346	0.03639
0.21391	2.32E-04	0.00251	0.00274	-0.0072	0.03557	0.01602	0.01866
0.22077	3.08E-04	0.00227	0.00257	-0.01297	0.02521	0.00655	0.00891
0.22184	3.22E-04	0.0033	0.00362	-0.01662	0.01796	3.66E-04	0.0025
0.22551	3.73E-04	0.00256	0.00294	-0.01754	0.01605	-0.00122	8.50E-04
0.23023	4.50E-04	0.00195	0.0024	-0.02103	0.00849	-0.00731	-0.00549
0.23046	4.54E-04	-7.75E-04	-3.22E-04	-0.03731	-0.0325	-0.03714	-0.03685
0.23164	4.75E-04	-2.71E-04	2.04E-04	-0.0589	-0.09491	-0.07827	-0.08051
0.23256	4.92E-04	0.00217	0.00266	-0.05842	-0.09352	-0.07737	-0.07955
0.2436	7.46E-04	0.0025	0.00325	-0.06223	-0.10442	-0.08454	-0.08717
0.24589	8.12E-04	0.00113	0.00184	-0.07153	-0.12941	-0.10159	-0.10518
0.25568	0.00115	-6.68E-04	4.83E-04	-0.07778	-0.14423	-0.11249	-0.11662
0.26206	0.00144	-4.92E-04	9.45E-04	-0.08102	-0.15106	-0.1179	-0.12225
0.26907	0.00182	4.30E-04	0.00225	-0.10045	-0.17503	-0.14495	-0.1495
0.27776	0.00242	0.00273	0.00515	-0.10483	-0.17538	-0.14914	-0.1534
0.27867	0.00249	0.00619	0.00868	-0.11112	-0.17185	-0.15314	-0.15668
0.28235	0.0028	2.18E-04	0.00302	-0.11217	-0.17075	-0.1535	-0.15688
0.28699	0.00324	0.00179	0.00503	-0.11703	-0.16329	-0.15343	-0.15588
0.28879	0.00343	0.00176	0.00519	-0.12048	-0.15438	-0.15016	-0.15166
0.29493	0.00413	0.00598	0.01011	-0.12038	-0.1547	-0.15033	-0.15186
0.30269	0.00521	0.00468	0.00989	-0.12206	-0.14654	-0.14517	-0.14595
0.30657	0.00584	-0.00725	-0.00142	-0.11783	-0.12302	-0.12485	-0.12456
-0.30839	0.00615	0.00209	0.00825	-0.11571	-0.11913	-0.12142	-0.12111
0.31369	0.00716	-0.00139	0.00576	-0.1139	-0.1165	-0.119	-0.1187
0.31387	0.0072	-0.0015	0.0057	-0.1121	-0.11435	-0.1169	-0.11663
0.31659	0.00777	2.81E-04	0.00805	-0.11193	-0.11417	-0.11671	-0.11645

x	m	e	y	$Y_h$	$Y_h$	$Y_h$	$Y_h$
				h=0.1	h=0.05	h=0.065	h=0.0625
0.31752	0.00797	-0.00221	0.00576	-0.10856	-0.1112	-0.11339	-0.11324
0.33877	0.01415	0.0011	0.01525	-0.10546	-0.1093	-0.11076	-0.11072
0.34329	0.0159	-0.00277	0.01314	-0.10199	-0.1078	-0.10812	-0.10823
0.35255	0.02009	0.00601	0.0261	-0.09812	-0.10654	-0.10539	-0.10567
0.3633	0.02613	-0.00862	0.01751	-0.09343	-0.10515	-0.10222	-0.10269
0.36966	0.0304	0.00275	0.03315	-0.0818	-0.10027	-0.09435	-0.09516
0.36969	0.03042	0.00689	0.03731	-0.07528	-0.09617	-0.08968	-0.09062
0.37791	0.03681	0.00343	0.04024	-0.07113	-0.09311	-0.0866	-0.08759
0.38215	0.04053	0.00372	0.04425	-0.06791	-0.09054	-0.08413	-0.08516
0.40049	0.06058	-0.00307	0.05751	-0.06144	-0.08504	-0.07903	-0.08011
0.40058	0.06069	-0.00498	0.05571	-0.06081	-0.08448	-0.07851	-0.0796
0.40427	0.06561	0.00147	0.06708	-0.05601	-0.08019	-0.07457	-0.07568
0.41079	0.0751	0.00466	0.07977	-0.04852	-0.07337	-0.06818	-0.06933
0.41251	0.0778	0.00369	0.08148	-0.03768	-0.06346	-0.0585	-0.0597
0.42686	0.10348	-0.00241	0.10106	0.00124	-0.02694	-0.01998	-0.02119
0.4279	0.10558	0.00161	0.10719	0.00611	-0.02195	-0.0148	-0.016
0.42823	0.10626	0.00157	0.10782	0.01872	-0.00835	-0.00112	-0.00221
0.43713	0.1258	-0.00254	0.12327	0.0171	-0.01016	-0.00291	-0.00401
0.4383	0.12856	-0.00198	0.12657	0.07347	0.06069	0.06112	0.06097
0.43832	0.12863	-0.00175	0.12688	0.10708	0.10481	0.0997	0.1001
0.4523	0.16562	-0.00109	0.16452	0.1646	0.16997	0.16345	0.16411
0.45312	0.16802	-0.00147	0.16655	0.18822	0.19283	0.18856	0.18911
0.45756	0.18154	7.94E-04	0.18233	0.21508	0.2176	0.21644	0.2168
0.45892	0.18581	-0.00118	0.18463	0.24006	0.24069	0.24178	0.24199
0.45943	0.18745	-8.64E-04	0.18659	0.24793	0.24813	0.24965	0.24983
0.4635	0.20084	0.00408	0.20492	0.32337	0.32374	0.3218	0.32199
0.46696	0.21279	6.14E-04	0.2134	0.32896	0.32924	0.32683	0.32703
0.47308	0.23517	0.0066	0.24177	0.42512	0.3994	0.40456	0.40338
0.48619	0.28876	-0.00494	0.28382	0.42712	0.40043	0.40605	0.40482
0.49309	0.32008	2.50E-04	0.32033	0.43611	0.40504	0.41272	0.41123
0.49374	0.32312	0.00133	0.32445	0.44755	0.41091	0.42124	0.4194
0.49564	0.33217	0.00515	0.33732	0.46788	0.42187	0.43665	0.43423
0.49799	0.34361	0.00196	0.34557	0.48526	0.43238	0.45036	0.44749
0.50206	0.36392	-0.00543	0.35849	0.48675	0.43335	0.45157	0.44867
0.50527	0.38049	-0.00434	0.37615	0.47482	0.42592	0.44206	0.43945
0.51034	0.40752	0.00758	0.41509	0.53736	0.47368	0.4962	0.4926
0.51804	0.45052	0.00232	0.45284	0.56352	0.50054	0.5224	0.51884
0.51815	0.4511	-8.06E-06	0.45109	0.57632	0.51503	0.53601	0.53256
0.52088	0.46691	-0.00268	0.46423	0.58063	0.52008	0.5407	0.53729
0.52564	0.49502	-0.00322	0.4918	0.60026	0.54412	0.56274	0.5596
0.52657	0.50056	-0.00516	0.4954	0.62309	0.57385	0.58965	0.58693
0.52749	0.50616	-0.00333	0.50282	0.6361	0.59151	0.60553	0.6031
0.53107	0.52793	0.00353	0.53146	0.64753	0.60739	0.61978	0.61761
0.53224	0.5351	0.00299	0.53809	0.6794	0.65322	0.66077	0.65942
0.53258	0.53723	0.0024	0.53963	0.69346	0.67408	0.67937	0.6784
0.53514	0.55306	-0.00336	0.54971	0.70051	0.68468	0.68881	0.68803
0.5402	0.58491	-0.00131	0.5836	0.71993	0.71431	0.71511	0.71489



x	m	e	y	$Y_h$ h=0.1	$Y_h$ h=0.05	$Y_h$ h=0.065	$Y_h$ h=0.0625
0.54326	0.60431	0.00508	0.60939	0.76261	0.78136	0.77428	0.77535
0.54426	0.6107	7.49E-05	0.61077	0.76837	0.79058	0.78239	0.78364
0.54591	0.62123	-0.00105	0.62018	0.79392	0.83166	0.81845	0.82051
0.54884	0.64002	-0.00144	0.63857	0.81586	0.86702	0.8495	0.85226
0.55033	0.64957	0.00125	0.65082	0.8228	0.87815	0.85928	0.86227
0.55357	0.67039	0.00157	0.67196	0.8389	0.9037	0.88183	0.88532
0.55395	0.67285	-2.50E-04	0.6726	0.86002	0.93629	0.91087	0.91497
0.55589	0.68527	2.63E-04	0.68553	0.86471	0.9433	0.91718	0.92141
0.56642	0.75203	0.00134	0.75337	0.88295	0.96942	0.94111	0.94573
0.57302	0.79258	-0.00244	0.79014	0.92088	1.01379	0.98541	0.99019
0.57319	0.79362	-4.25E-04	0.7932	0.93601	1.02492	0.99946	1.00384
0.57396	0.79821	-0.00463	0.79359	0.93948	1.02661	1.0022	1.00643
0.57664	0.81412	6.38E-04	0.81476	0.94185	1.02752	1.00393	1.00804
0.57725	0.81772	0.00531	0.82303	0.95182	1.02817	1.00947	1.01288
0.57845	0.82465	-0.00287	0.82178	0.95461	1.02678	1.01017	1.01326
0.58514	0.86204	0.00249	0.86453	0.95625	1.02526	1.01019	1.01307
0.58554	0.86418	-3.97E-04	0.86378	0.95881	1.01985	1.0086	1.01097
0.58607	0.86705	-0.00353	0.86352	0.95874	1.02015	1.00872	1.01112
0.58842	0.87934	0.00229	0.88163	0.95899	1.01895	1.0082	1.01051
0.59826	0.92603	9.21E-04	0.92695	0.95872	1.00975	1.00292	1.00477
0.59947	0.93114	-0.00279	0.92835	0.95587	1.00101	0.99616	0.99779
0.60066	0.93604	-0.00611	0.92993	0.95543	1.00005	0.9953	0.99692
0.60196	0.94124	-0.00303	0.93821	0.9433	0.98273	0.97637	0.97799
0.60217	0.94205	-0.0042	0.93785	0.942	0.98128	0.97453	0.97617
0.60511	0.95302	-0.00124	0.95177	0.94086	0.98002	0.97292	0.97457
0.60665	0.95835	-0.00319	0.95516	0.91563	0.95132	0.93845	0.94006
0.61	0.969	-0.00188	0.96712	0.90828	0.94147	0.92855	0.93003
0.61183	0.97422	0.00299	0.97721	0.89521	0.92218	0.91113	0.91224
0.62065	0.99296	0.00254	0.99551	0.86898	0.88042	0.87758	0.87778
0.62502	0.99798	-0.00105	0.99693	0.86314	0.87132	0.87047	0.87048
0.62829	0.99977	-0.00569	0.99408	0.8281	0.82377	0.8313	0.8305
0.62888	0.9999	0.00213	1.00204	0.80126	0.79689	0.80525	0.80434
0.64111	0.98924	-0.00856	0.98068	0.78459	0.78353	0.79052	0.78973
0.64462	0.98125	-7.69E-04	0.98048	0.78356	0.78276	0.78963	0.78885
0.64565	0.97848	-0.00431	0.97417	0.76318	0.76868	0.7728	0.7723
0.65388	0.94926	-0.00252	0.94674	0.7525	0.76183	0.76435	0.76403
0.6576	0.93193	-0.00192	0.93001	0.7391	0.75346	0.75401	0.75394
0.66275	0.90379	-7.72E-04	0.90302	0.72579	0.74517	0.74392	0.7441
0.66771	0.87219	0.00104	0.87324	0.69491	0.72525	0.72078	0.72157
0.67704	0.80168	0.00359	0.80527	0.63419	0.68159	0.67397	0.67588
0.68206	0.75833	-0.00192	0.75641	0.58013	0.639	0.62837	0.63123
0.68383	0.74231	-0.00194	0.74037	0.5429	0.60844	0.59397	0.59746
0.68793	0.70351	-0.00345	0.70006	0.45802	0.5323	0.50478	0.50943
0.69124	0.67091	-0.00166	0.66925	0.45704	0.53133	0.50365	0.50831
0.69262	0.65703	-9.70E-04	0.65606	0.33983	0.38928	0.35451	0.35852
0.69326	0.65054	-4.67E-04	0.65007	0.26557	0.26621	0.2475	0.24877
0.69549	0.62765	-0.00309	0.62456	0.24012	0.21863	0.20976	0.20968



x	m	e	y	Y <sub>h</sub> h=0.1	Y <sub>h</sub> h=0.05	Y <sub>h</sub> h=0.065	Y <sub>h</sub> h=0.0625
0.69592	0.62313	-8.99E-04	0.62224	0.23923	0.21693	0.20844	0.2083
0.69944	0.58615	-0.00113	0.58503	0.15527	0.0564	0.08766	0.08261
0.70754	0.49911	-0.00362	0.49549	0.09179	-0.03473	0.01262	0.00551
0.71011	0.47121	-3.01E-04	0.47091	0.07731	-0.04681	-3.92E-04	-0.00746
0.72118	0.35301	-8.44E-04	0.35217	0.04582	-0.05777	-0.02037	-0.02643
0.72144	0.3503	-0.00486	0.34545	0.04115	-0.05747	-0.02216	-0.02796
0.72715	0.29244	8.57E-04	0.2933	0.03627	-0.05662	-0.02364	-0.02914
0.72738	0.29014	0.00131	0.29144	0.03517	-0.05636	-0.02392	-0.02935
0.73146	0.25101	-0.00821	0.2428	0.02097	-0.05044	-0.02565	-0.02999
0.73444	0.22382	-0.00378	0.22003	0.00556	-0.03932	-0.02352	-0.02643
0.7374	0.19802	-0.00286	0.19516	-0.01046	-0.02394	-0.01766	-0.01889
0.73859	0.18804	0.00259	0.19063	-0.01076	-0.02363	-0.01753	-0.01873
0.74013	0.1754	0.00336	0.17877	-0.01401	-0.02023	-0.01605	-0.0169
0.7431	0.15231	-0.00254	0.14978	-0.01638	-0.01772	-0.01495	-0.01553
0.74316	0.15182	-9.56E-04	0.15087	-0.02858	-0.00481	-0.00928	-0.00851
0.74378	0.14719	-4.08E-04	0.14678	-0.02671	-0.00677	-0.01013	-0.00956
0.74667	0.12655	5.66E-04	0.12712	-0.04914	0.01488	-0.00178	0.00117
0.75085	0.09952	-9.09E-05	0.09943	-0.11747	0.03789	-0.0105	-0.0024
0.75153	0.09546	-0.00148	0.09398	-0.12167	0.0371	-0.01257	-0.00426
0.77501	0.00995	-7.83E-04	0.00916	-0.15519	0.02359	-0.034	-0.02434
0.77877	0.00519	-0.0027	0.00249	-0.17889	0.0074	-0.05373	-0.04343
0.7824	0.00229	9.72E-04	0.00327	-0.1875	3.63E-04	-0.06172	-0.05124
0.78403	0.00145	-0.00268	-0.00123	-0.24023	-0.05396	-0.11887	-0.10789
0.79716	-7.00E-05	-0.00158	-0.00165	-0.26328	-0.08311	-0.14778	-0.13688
0.80134	-7.64E-04	1.89E-04	-5.75E-04	-0.31077	-0.15243	-0.21369	-0.20357
0.80344	-0.00159	-0.00158	-0.00317	-0.40102	-0.31626	-0.35774	-0.35145
0.80515	-0.0026	1.78E-04	-0.00242	-0.42128	-0.35814	-0.39255	-0.38751
0.80692	-0.00401	-0.00259	-0.00661	-0.43931	-0.39666	-0.42404	-0.4202
0.80993	-0.00747	-1.49E-04	-0.00762	-0.58144	-0.70775	-0.67397	-0.68028
0.81602	-0.0195	-7.95E-04	-0.0203	-0.53347	-0.60619	-0.59131	-0.59442
0.82047	-0.03366	6.08E-05	-0.0336	-0.6431	-0.821	-0.77084	-0.78002
0.82163	-0.03819	0.00565	-0.03254	-0.65056	-0.83302	-0.78131	-0.7907
0.82545	-0.0559	-2.29E-04	-0.05613	-0.65396	-0.83833	-0.78593	-0.7954
0.83332	-0.10683	-0.00148	-0.10831	-0.65712	-0.84319	-0.79014	-0.79968
0.83336	-0.10714	0.00328	-0.10386	-0.66278	-0.85158	-0.79736	-0.80699
0.83629	-0.13145	0.0044	-0.12705	-0.665	-0.85474	-0.80007	-0.80973
0.8381	-0.14793	-0.00464	-0.15257	-0.66752	-0.85822	-0.80302	-0.8127
0.83879	-0.15447	0.00407	-0.1504	-0.67294	-0.86493	-0.8087	-0.81834
0.84079	-0.17452	-0.00369	-0.17821	-0.67626	-0.86771	-0.81108	-0.82058
0.84168	-0.18391	-0.00443	-0.18834	-0.67775	-0.86475	-0.80912	-0.81822
0.84558	-0.22799	-0.00163	-0.22962	-0.67512	-0.85319	-0.80099	-0.80946
0.84981	-0.28124	-5.64E-04	-0.2818	-0.67336	-0.84742	-0.79697	-0.80518
0.85335	-0.32997	0.00203	-0.32794	-0.66879	-0.83367	-0.78747	-0.79511
0.85363	-0.33396	-6.56E-04	-0.33461	-0.66858	-0.83305	-0.78704	-0.79466
0.86073	-0.44086	-0.00498	-0.44584	-0.62125	-0.71444	-0.70235	-0.70622
0.86173	-0.45681	-7.29E-05	-0.45688	-0.6172	-0.70537	-0.69539	-0.69901
0.8628	-0.47378	0.00116	-0.47262	-0.61975	-0.71105	-0.69976	-0.70354

x	m	e	y	$Y_h$ h=0.1	$Y_h$ h=0.05	$Y_h$ h=0.065	$Y_h$ h=0.0625
0.87177	-0.62005	0.00247	-0.61759	-0.61356	-0.69734	-0.68914	-0.69256
0.87437	-0.66232	0.00511	-0.65721	-0.59408	-0.65616	-0.65588	-0.65828
0.88371	-0.80455	-0.00193	-0.80648	-0.58756	-0.64296	-0.64473	-0.64685
0.88981	-0.88319	4.38E-04	-0.88275	-0.54905	-0.57004	-0.5791	-0.57971
0.89287	-0.9165	-0.00376	-0.92026	-0.53878	-0.55167	-0.5616	-0.56185
0.89349	-0.92267	-0.00821	-0.93088	-0.52049	-0.51975	-0.5305	-0.53013
0.90047	-0.97686	0.00478	-0.97207	-0.45655	-0.41226	-0.42374	-0.4213
0.90084	-0.97891	-0.00144	-0.98035	-0.36444	-0.2677	-0.28509	-0.28039
0.90969	-0.99953	-0.0057	-1.00523	-0.3344	-0.2263	-0.24607	-0.24103
0.91805	-0.96701	-0.00518	-0.97219	-0.28372	-0.16437	-0.18786	-0.18264
0.92949	-0.84389	7.19E-04	-0.84317	-0.27449	-0.15405	-0.17823	-0.17302
0.92961	-0.84215	0.00163	-0.84052	-0.26775	-0.14666	-0.17136	-0.16615
0.94406	-0.59197	-0.00289	-0.59486	-0.2711	-0.15031	-0.17476	-0.16955
0.94576	-0.55895	0.00519	-0.55376	-0.25524	-0.13329	-0.159	-0.1538
0.94721	-0.53068	0.00188	-0.5288	-0.24483	-0.12244	-0.14904	-0.14385
0.94956	-0.48476	0.0041	-0.48066	-0.24688	-0.12455	-0.15098	-0.14578
0.95353	-0.40829	0.00153	-0.40677	-0.24128	-0.1188	-0.14571	-0.14052
0.95372	-0.40468	-0.00401	-0.40869	-0.23191	-0.10931	-0.13707	-0.13188
0.96435	-0.22021	0.00314	-0.21707	-0.22061	-0.09809	-0.12691	-0.12172
0.9794	-0.05115	-0.0037	-0.05485	-0.21607	-0.09364	-0.12291	-0.11771
0.98057	-0.0434	-8.96E-05	-0.04349	-0.2018	-0.07988	-0.11055	-0.10533
0.98609	-0.01671	-0.00103	-0.01773	-0.18587	-0.06489	-0.09713	-0.09185
0.99432	-0.0012	-0.00305	-0.00425	-0.18101	-0.06039	-0.09308	-0.08779

