Appendix A

Numerical models and parameters

model name	model type	diffusivity D [m^2/s]	source (A=10)	Δt [s]
m001	homogeneous	1	step function t =100s	1
m002	homogeneous	5	step function t =100s	0.3
m005	anisotropic	$D = \begin{pmatrix} 20 & 10 & 5 \\ 10 & 1 & 5 \\ 5 & 5 & 2 \end{pmatrix}$	step function t =100s	1
m006	heterogeneous (cross struct.)	$D_1 = 5$ $D_2 = 50$	step function t =100s	0.3
m007	anisotropic	$\mathbf{D} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 10 \end{pmatrix}$ $\alpha = 30^o, \beta = 30^o, \varphi = 0^o$	step function t =100s	0.3
m008	anisotropic	$\mathbf{D} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 5 \end{pmatrix}$ $\alpha = 60^o, \beta = 30^o, \varphi = 60^o$	step function t =100s	0.3
m009	anisotropic	$\mathbf{D} = \begin{pmatrix} 0.1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 8 \end{pmatrix}$ $\alpha = 60^o, \beta = 30^o, \varphi = 60^o$	step function t =100s	0.3
m010	homogeneous	5	step function t =20 s	0.3
m011	homogeneous	3	step function t =20 s	0.3
m012	homogeneous	3	step function t =10 s	0.3
m013	homogeneous	3	step function t =5 s	0.3
m014	homogeneous	3	KTB source	0.3
m015	homogeneous	1	KTB source	0.3
m016	heterogeneous (embedded sphere)	$D_1 = 5$ $D_2 = 50$	step function t =100s	0.3
m020	homogeneous	5	cylinder source, l =30m	0.3
m021	homogeneous	1	cylinder source, l =30m	0.3

Table A.1: 3D models and modeling parameters.

model number	correlation length a [m]	C_{max} []	distribution type	Autocorrelation function	Kaiser effect [%]	based on	number of events
m002							
1	-	1	normal	none	-	-	80185
2	-	3	normal	none	-	-	24283
3	-	5	normal	none	-	-	15735
4	-	7	normal	none	-	-	11079
5	-	10	normal	none	-	-	7506
6	-	1	even	none	-	-	18766
7	-	2	even	none	-	-	9248
8	-	3	even	none	-	-	6308
9	-	4	even	none	-	-	4608
10	-	5	even	none	-	-	3769
11	-	6	even	none	-	-	3080
12	-	7	even	none	-	-	2624
13	-	8	even	none	-	-	2311
14	-	9	even	none	-	-	2056
15	-	10	even	none	-	-	1878
16	-	0,2	even	none	-	-	92729
17	-	0,4	even	none	-	-	46553
18	-	0,6	even	none	-	-	30919
19	-	0,8	even	none	-	-	23234
20	-	1	even	none	5	of C_{max}	20884
21	-	1	even	none	10	of C_{max}	19354
22	-	1	even	none	15	of C_{max}	19144
23	-	5	even	none	5	of C_{max}	3778
24	-	5	even	none	10	of C_{max}	3792
25	-	5	even	none	15	of C_{max}	3807
26	-	10	even	none	5	of C_{max}	1852
27	-	10	even	none	10	of C_{max}	1804
28	-	10	even	none	15	of C_{max}	1896
29	-	1	even	none	5	of cell value	398658
30	-	1	even	none	10	of cell value	201797
31	-	1	even	none	15	of cell value	143323
32	-	5	even	none	5	of cell value	77104
34	-	5	even	none	15	of cell value	29229
35	-	10	even	none	5	of cell value	40817
36	-	10	even	none	10	of cell value	20640
37	-	10	even	none	15	of cell value	14808
38	-	15	even	none	5	of cell value	24856
39	-	15	even	none	10	of cell value	13438
40	-	1	even	none	10	of C_{max}	19281
41	-	2	even	none	10	of C_{max}	9305
42	-	3	even	none	10	of C_{max}	6255
43	-	4	even	none	10	of C_{max}	4633
44	-	5	even	none	10	of C_{max}	3721
45	-	6	even	none	10	of C_{max}	3163
46	-	7	even	none	10	of C_{max}	2703
47	-	8	even	none	10	of C_{max}	2275
48	-	9	even	none	10	of C_{max}	2117
49	-	10	even	none	10	of C_{max}	1907
50	5	1	even	gauss	10	of C_{max}	62358
51	5	5	even	gauss	10	of C_{max}	12025
52	5	10	even	gauss	10	of C_{max}	6537
53	10	1	even	gauss	10	of C_{max}	57620
54	10	5	even	gauss	10	of C_{max}	12738
55	10	10	even	gauss	10	of C_{max}	5632
56	20	1	even	gauss	10	of C_{max}	40639
57	20	5	even	gauss	10	of C_{max}	9175
58	20	10	even	gauss	10	of C_{max}	5307
59	40	1	even	gauss	10	of C_{max}	15433
60	40	5	even	gauss	10	of C_{max}	4090
61	40	10	even	gauss	10	of C_{max}	403
62	5	1	even	exponential	10	of C_{max}	71037
63	5	5	even	exponential	10	of C_{max}	14489
64	5	10	even	exponential	10	of C_{max}	7578
65	10	1	even	exponential	10	of C_{max}	76896
66	10	5	even	exponential	10	of C_{max}	16395
67	10	10	even	exponential	10	of C_{max}	6561
68	20	5	even	exponential	10	of C_{max}	13186
69	20	5	even	exponential	10	of C_{max}	13389
70	20	10	even	exponential	10	of C_{max}	9195
71	40	1	even	exponential	10	of C_{max}	41047
72	40	10	even	exponential	10	of C_{max}	5915
100	-	0,6	even	none	10	of C_{max}	33844
101	-	0,8	even	none	10	of C_{max}	24575
102	-	1	even	none	10	of C_{max}	19314
103	-	1,2	even	none	10	of C_{max}	16122
104	-	1,4	even	none	10	of C_{max}	13694
105	-	1,6	even	none	10	of C_{max}	12002

model number	correlation length a [m]	C_{max} []	distribution type	Autocorrelation function	Kaiser effect [%]	based on	number of events
106	-	1,8	even	none	10	of C_{max}	10419
107	-	2	even	none	10	of C_{max}	9387
108	-	2,2	even	none	10	of C_{max}	8839
109	-	2,4	even	none	10	of C_{max}	7928
110	-	2,6	even	none	10	of C_{max}	7221
111	-	2,8	even	none	10	of C_{max}	6763
112	-	3	even	none	10	of C_{max}	6256
113	-	3,2	even	none	10	of C_{max}	6006
114	-	3,5	even	none	10	of C_{max}	5429
115	-	3,6	even	none	10	of C_{max}	5212
116	-	3,8	even	none	10	of C_{max}	4839
117	-	4	even	none	10	of C_{max}	4800
118	-	4,2	even	none	10	of C_{max}	4445
119	-	4,4	even	none	10	of C_{max}	4257
120	-	4,6	even	none	10	of C_{max}	3983
121	-	4,8	even	none	10	of C_{max}	3809
122	-	5	even	none	10	of C_{max}	3723
123	-	5,2	even	none	10	of C_{max}	3667
124	-	5,4	even	none	10	of C_{max}	3484
125	-	5,6	even	none	10	of C_{max}	3302
126	-	5,8	even	none	10	of C_{max}	3212
127	-	6	even	none	10	of C_{max}	3140
128	-	6,2	even	none	10	of C_{max}	3039
129	-	6,4	even	none	10	of C_{max}	2999
130	-	6,6	even	none	10	of C_{max}	2821
131	-	6,8	even	none	10	of C_{max}	2659
132	-	7	even	none	10	of C_{max}	2628
133	-	7,2	even	none	10	of C_{max}	2662
134	-	7,4	even	none	10	of C_{max}	2596
135	-	7,6	even	none	10	of C_{max}	2393
136	-	7,8	even	none	10	of C_{max}	2406
137	-	8	even	none	10	of C_{max}	2307
138	-	8,2	even	none	10	of C_{max}	2233
139	-	8,4	even	none	10	of C_{max}	2254
140	-	8,6	even	none	10	of C_{max}	2047
141	-	8,8	even	none	10	of C_{max}	2117
142	-	9	even	none	10	of C_{max}	2093
143	-	9,2	even	none	10	of C_{max}	2074
144	-	9,4	even	none	10	of C_{max}	1963
145	-	9,6	even	none	10	of C_{max}	1905
146	-	9,8	even	none	10	of C_{max}	1853
147	-	10	even	none	10	of C_{max}	1933
148	-	11	even	none	10	of C_{max}	1647
149	-	12	even	none	10	of C_{max}	1535
150	-	13	even	none	10	of C_{max}	1457
151	-	14	even	none	10	of C_{max}	1247
152	-	15	even	none	10	of C_{max}	1236
153	-	16	even	none	10	of C_{max}	1175
154	-	17	even	none	10	of C_{max}	1062
155	-	18	even	none	10	of C_{max}	1043
m005							
1	-	1	normal	none	-	-	188909
2	-	3	normal	none	-	-	58531
3	-	5	normal	none	-	-	33940
4	-	7	normal	none	-	-	24707
5	-	10	normal	none	-	-	18276
6	-	1	normal	none	-	-	167384
7	-	3	normal	none	-	-	57071
8	-	5	normal	none	-	-	36333
9	-	7	normal	none	-	-	23646
10	-	10	normal	none	-	-	17370
11	-	1	normal	none	-	-	175884
12	-	3	normal	none	-	-	57021
13	-	5	normal	none	-	-	34389
14	-	7	normal	none	-	-	24151
15	-	10	normal	none	-	-	17180
16	-	1	normal	none	-	-	178106
17	-	3	normal	none	-	-	55091
18	-	5	normal	none	-	-	34840
19	-	7	normal	none	-	-	27513
20	-	10	normal	none	-	-	17542
21	-	1	normal	none	-	-	167102
22	-	3	normal	none	-	-	57934
23	-	5	normal	none	-	-	36039
24	-	7	normal	none	-	-	24016
25	-	10	normal	none	-	-	17121
26	-	1	normal	none	-	-	178121
27	-	3	normal	none	-	-	55061
28	-	5	normal	none	-	-	34933

model number	correlation length a [m]	C_{max} []	distribution type	Autocorrelation function	Kaiser effect [%]	based on	number of events
29	-	7	normal	none	-	-	25311
30	-	10	normal	none	-	-	19338
31	-	1	even	none	-	-	41250
32	-	3	even	none	-	-	13551
33	-	5	even	none	-	-	8461
34	-	7	even	none	-	-	5848
35	-	10	even	none	-	-	4188
36	-	1	even	none	-	-	40852
37	-	3	even	none	-	-	13910
38	-	5	even	none	-	-	8203
39	-	7	even	none	-	-	5824
40	-	10	even	none	-	-	4200
41	-	1	even	none	-	-	41351
42	-	3	even	none	-	-	13808
43	-	5	even	none		-	8272
44	-	7	even	none	-	-	5895
45	-	10	even	none	-	-	4216
46	-	1	even	none	-	-	41634
47	-	3	even	none	-	-	13838
48	-	5	even	none	-	-	8250
50	5	1	normal	gauss	-	-	142391
51	5	5	normal	gauss	-	-	29628
52	5	10	normal	gauss	-	-	14329
53	10	1	normal	gauss	-	-	136240
54	10	5	normal	gauss	-	-	26762
55	10	10	normal	gauss	-	-	11224
56	20	1	normal	gauss	-	-	86093
57	20	5	normal	gauss	-	-	24878
58	20	10	normal	gauss	-	-	10856
59	40	1	normal	gauss	-	-	16950
60	40	5	normal	gauss	-	-	5236
61	40	10	normal	gauss	-	-	4751
70	5	1	normal	exponential	-	-	162623
71	5	5	normal	exponential	-	-	32543
72	5	10	normal	exponential	-	-	18327
73	10	1	normal	exponential	-	-	145181
74	10	5	normal	exponential	-	-	34276
75	10	10	normal	exponential	-	-	15463
76	20	1	normal	exponential	-	-	146084
77	20	5	normal	exponential	-	-	25633
78	20	10	normal	exponential	-	-	16105
79	40	1	normal	exponential	-	-	155062
80	40	5	normal	exponential	-	-	34251
81	40	10	normal	exponential	-	-	13032
m006							
1	-	1	normal	none	-	-	615745
2	-	3	normal	none	-	-	191434
3	-	5	normal	none	-	-	124538
4	-	7	normal	none	-	-	86626
5	-	10	normal	none	-	-	58580
6	-	1	even	none	-	-	146614
7	-	2	even	none	-	-	73387
8	-	3	even	none	-	-	49229
9	-	4	even	none	-	-	36496
10	-	5	even	none	-	-	29439
11	-	6	even	none	-	-	24160
12	-	7	even	none	-	-	21085
13	-	8	even	none	-	-	18240
14	-	9	even	none	-	-	16418
15	-	10	even	none	-	-	14657
16	-	0,2	even	none	-	-	731000
17	-	0,4	even	none	-	-	367272
18	-	0,6	even	none	-	-	245463
19	-	0,8	even	none	-	-	183346
m008							
50	5	1	even	gauss	-	-	93925
51	5	5	even	gauss	-	-	8412
52	5	10	even	gauss	-	-	2798
53	10	1	even	gauss	-	-	24999
54	10	5	even	gauss	-	-	1413
55	10	10	even	gauss	-	-	1943
56	20	1	even	gauss	-	-	96694
57	20	5	even	gauss	-	-	1495
58	20	10	even	gauss	-	-	125
59	8	1	even	gauss	-	-	93925
60	8	5	even	gauss	-	-	8412
61	8	10	even	gauss	-	-	2798
62	8	1	even	exponential	-	-	26205

model number	correlation length a [m]	C_{max} []	distribution type	Autocorrelation function	Kaiser effect [%]	based on	number of events
63	8	5	even	exponential	-	-	2449
64	8	10	even	exponential	-	-	12478
65	8	1	even	exponential	-	-	136492
66	8	5	even	exponential	-	-	17099
67	8	10	even	exponential	-	-	7889
68	8	5	even	exponential	-	-	21166
69	8	5	even	exponential	-	-	12254
70	8	10	even	exponential	-	-	11012
71	8	1	even	exponential	-	-	72424
72	8	10	even	exponential	-	-	12586
m010							
2	-	3	normal	none	-	-	1394
3	-	5	normal	none	-	-	821
4	-	7	normal	none	-	-	633
5	-	10	normal	none	-	-	533
6	-	1	even	none	-	-	1178
m011							
1	-	1	normal	none	-	-	72424
2	-	3	normal	none	-	-	22173
3	-	5	normal	none	-	-	13313
4	-	7	normal	none	-	-	10235
5	-	10	normal	none	-	-	6823
6	-	1	even	none	-	-	16129
7	-	2	even	none	-	-	8013
8	-	3	even	none	-	-	5379
9	-	4	even	none	-	-	4018
10	-	5	even	none	-	-	3196
11	-	6	even	none	-	-	2655
12	-	7	even	none	-	-	2332
13	-	8	even	none	-	-	2105
14	-	9	even	none	-	-	1815
15	-	10	even	none	-	-	1665
20	-	1	even	none	5	of C_{max}	19456
21	-	1	even	none	10	of C_{max}	17421
22	-	1	even	none	15	of C_{max}	16845
23	-	5	even	none	5	of C_{max}	3333
24	-	5	even	none	10	of C_{max}	3122
25	-	5	even	none	15	of C_{max}	3206
26	-	10	even	none	5	of C_{max}	1616
27	-	10	even	none	10	of C_{max}	1599
28	-	10	even	none	15	of C_{max}	1591
29	-	1	even	none	5	of cell value	333636
30	-	1	even	none	10	of cell value	175092
31	-	1	even	none	15	of cell value	123972
32	-	5	even	none	5	of cell value	69072
33	-	5	even	none	10	of cell value	35119
34	-	5	even	none	15	of cell value	24555
35	-	10	even	none	5	of cell value	34388
36	-	10	even	none	10	of cell value	18156
37	-	10	even	none	15	of cell value	12670
38	-	15	even	none	5	of cell value	23670
39	-	15	even	none	10	of cell value	11005
40	-	1	even	none	10	of C_{max}	17524
41	-	2	even	none	10	of C_{max}	8226
42	-	3	even	none	10	of C_{max}	5332
43	-	4	even	none	10	of C_{max}	4061
44	-	5	even	none	10	of C_{max}	3169
45	-	6	even	none	10	of C_{max}	2647
46	-	7	even	none	10	of C_{max}	2395
47	-	8	even	none	10	of C_{max}	2099
48	-	9	even	none	10	of C_{max}	1802
49	-	10	even	none	10	of C_{max}	1610
50	5	1	even	gauss	-	-	53643
51	5	5	even	gauss	-	-	11465
52	5	10	even	gauss	-	-	5149
53	10	1	even	gauss	-	-	57197
54	10	5	even	gauss	-	-	7879
55	10	10	even	gauss	-	-	5724
56	20	1	even	gauss	-	-	53609
57	20	5	even	gauss	-	-	13121
58	20	10	even	gauss	-	-	3453
59	40	1	even	gauss	-	-	8109
60	40	5	even	gauss	-	-	878
61	40	10	even	gauss	-	-	246
100	-	0,6	even	none	10	of C_{max}	31259
101	-	0,8	even	none	10	of C_{max}	22228
102	-	1	even	none	10	of C_{max}	17381
103	-	1,2	even	none	10	of C_{max}	14161

model number	correlation length a [m]	C_{max} []	distribution type	Autocorrelation function	Kaiser effect [%]	based on	number of events
104	-	1,4	even	none	10	of C_{max}	11979
105	-	1,6	even	none	10	of C_{max}	10389
106	-	1,8	even	none	10	of C_{max}	9336
107	-	2	even	none	10	of C_{max}	8421
108	-	2,2	even	none	10	of C_{max}	7571
109	-	2,4	even	none	10	of C_{max}	6847
110	-	2,6	even	none	10	of C_{max}	6394
111	-	2,8	even	none	10	of C_{max}	5791
112	-	3	even	none	10	of C_{max}	5332
113	-	3,2	even	none	10	of C_{max}	5112
114	-	3,4	even	none	10	of C_{max}	4520
115	-	3,6	even	none	10	of C_{max}	4485
116	-	3,8	even	none	10	of C_{max}	4282
117	-	4	even	none	10	of C_{max}	4138
118	-	4,2	even	none	10	of C_{max}	3885
119	-	4,4	even	none	10	of C_{max}	3581
120	-	4,6	even	none	10	of C_{max}	3488
121	-	4,8	even	none	10	of C_{max}	3318
122	-	5	even	none	10	of C_{max}	3183
123	-	5,2	even	none	10	of C_{max}	3180
124	-	5,4	even	none	10	of C_{max}	3081
125	-	5,6	even	none	10	of C_{max}	2959
126	-	5,8	even	none	10	of C_{max}	2716
127	-	6	even	none	10	of C_{max}	2745
128	-	6,2	even	none	10	of C_{max}	2558
129	-	6,4	even	none	10	of C_{max}	2469
130	-	6,6	even	none	10	of C_{max}	2475
131	-	6,8	even	none	10	of C_{max}	2316
132	-	7	even	none	10	of C_{max}	2351
133	-	7,2	even	none	10	of C_{max}	2252
134	-	7,4	even	none	10	of C_{max}	2238
135	-	7,6	even	none	10	of C_{max}	2153
136	-	7,8	even	none	10	of C_{max}	2106
137	-	8	even	none	10	of C_{max}	2028
138	-	8,2	even	none	10	of C_{max}	1943
139	-	8,4	even	none	10	of C_{max}	1941
140	-	8,6	even	none	10	of C_{max}	1851
141	-	8,8	even	none	10	of C_{max}	1808
142	-	9	even	none	10	of C_{max}	1769
143	-	9,2	even	none	10	of C_{max}	1685
144	-	9,4	even	none	10	of C_{max}	1712
145	-	9,6	even	none	10	of C_{max}	1644
146	-	9,8	even	none	10	of C_{max}	1622
147	-	10	even	none	10	of C_{max}	1656
148	-	11	even	none	10	of C_{max}	1508
149	-	12	even	none	10	of C_{max}	1296
150	-	13	even	none	10	of C_{max}	1200
151	-	14	even	none	10	of C_{max}	1212
152	-	15	even	none	10	of C_{max}	1067
153	-	16	even	none	10	of C_{max}	1025
154	-	17	even	none	10	of C_{max}	984
155	-	18	even	none	10	of C_{max}	878
m012							
1	-	1	normal	none	-	-	7599
2	-	3	normal	none	-	-	2698
3	-	5	normal	none	-	-	1452
4	-	7	normal	none	-	-	1021
5	-	10	normal	none	-	-	679
6	-	1	even	none	-	-	1716
7	-	2	even	none	-	-	883
8	-	3	even	none	-	-	587
9	-	4	even	none	-	-	442
10	-	5	even	none	-	-	331
11	-	6	even	none	-	-	303
12	-	7	even	none	-	-	251
13	-	8	even	none	-	-	219
14	-	9	even	none	-	-	181
15	-	10	even	none	-	-	186
m013							
1	-	1	normal	none	-	-	6990
2	-	3	normal	none	-	-	2341
3	-	5	normal	none	-	-	1297
4	-	7	normal	none	-	-	937
5	-	10	normal	none	-	-	634
6	-	1	even	none	-	-	1633
7	-	2	even	none	-	-	812
8	-	3	even	none	-	-	569
9	-	4	even	none	-	-	387

model number	correlation length a [m]	C_{max} []	distribution type	Autocorrelation function	Kaiser effect [%]	based on	number of events
10	-	5	even	none	-	-	349
11	-	6	even	none	-	-	255
12	-	7	even	none	-	-	210
13	-	8	even	none	-	-	168
14	-	9	even	none	-	-	191
15	-	10	even	none	-	-	162
16	-	0,2	even	none	-	-	7906
17	-	0,4	even	none	-	-	4021
18	-	0,6	even	none	-	-	2690
19	-	0,8	even	none	-	-	2110
20	-	1	even	none	5	of C_{max}	2267
21	-	1	even	none	10	of C_{max}	1943
22	-	1	even	none	15	of C_{max}	1708
23	-	5	even	none	5	of C_{max}	347
24	-	5	even	none	10	of C_{max}	318
25	-	5	even	none	15	of C_{max}	313
26	-	10	even	none	5	of C_{max}	154
27	-	10	even	none	10	of C_{max}	188
28	-	10	even	none	15	of C_{max}	168
29	-	1	even	none	5	of cell value	28593
30	-	1	even	none	10	of cell value	16680
31	-	1	even	none	15	of cell value	12041
32	-	5	even	none	5	of cell value	6508
33	-	5	even	none	10	of cell value	3154
34	-	5	even	none	15	of cell value	2346
35	-	10	even	none	5	of cell value	2706
36	-	10	even	none	10	of cell value	1760
37	-	10	even	none	15	of cell value	1203
38	-	15	even	none	5	of cell value	1656
39	-	15	even	none	10	of cell value	1247
40	-	0,6	even	none	10	of C_{max}	3441
41	-	0,8	even	none	10	of C_{max}	2496
42	-	1	even	none	10	of C_{max}	1919
m014							
1	-	1	normal	none	-	-	18628
2	-	3	normal	none	-	-	6186
3	-	5	normal	none	-	-	3343
4	-	7	normal	none	-	-	2550
5	-	10	normal	none	-	-	1810
6	-	1	even	none	-	-	4248
7	-	2	even	none	-	-	2088
8	-	3	even	none	-	-	1411
9	-	4	even	none	-	-	1008
10	-	5	even	none	-	-	866
11	-	6	even	none	-	-	685
12	-	7	even	none	-	-	604
13	-	8	even	none	-	-	529
14	-	9	even	none	-	-	471
15	-	10	even	none	-	-	475
16	-	0,2	even	none	-	-	21115
17	-	0,4	even	none	-	-	10876
18	-	0,6	even	none	-	-	7090
19	-	0,8	even	none	-	-	5511
20	-	1	even	none	5	of C_{max}	5106
21	-	1	even	none	10	of C_{max}	4807
22	-	1	even	none	15	of C_{max}	4557
23	-	5	even	none	5	of C_{max}	866
24	-	5	even	none	10	of C_{max}	872
25	-	5	even	none	15	of C_{max}	872
26	-	10	even	none	5	of C_{max}	445
27	-	10	even	none	10	of C_{max}	430
28	-	10	even	none	15	of C_{max}	442
29	-	1	even	none	5	of cell value	91629
30	-	1	even	none	10	of cell value	48974
31	-	1	even	none	15	of cell value	32783
32	-	5	even	none	5	of cell value	18846
33	-	5	even	none	10	of cell value	9459
34	-	5	even	none	15	of cell value	6533
35	-	10	even	none	5	of cell value	8677
36	-	10	even	none	10	of cell value	4267
37	-	10	even	none	15	of cell value	3257
38	-	15	even	none	5	of cell value	6639
39	-	15	even	none	10	of cell value	2837
40	-	1	even	none	10	of C_{max}	4531
41	-	2	even	none	10	of C_{max}	2232
42	-	3	even	none	10	of C_{max}	1446
43	-	4	even	none	10	of C_{max}	1059
44	-	5	even	none	10	of C_{max}	886
45	-	6	even	none	10	of C_{max}	728

model number	correlation length a [m]	C_{max} []	distribution type	Autocorrelation function	Kaiser effect [%]	based on	number of events
46	-	7	even	none	10	of C_{max}	623
47	-	8	even	none	10	of C_{max}	558
48	-	9	even	none	10	of C_{max}	466
49	-	10	even	none	10	of C_{max}	441
m015							
1	-	1	normal	none	-	-	6391
2	-	3	normal	none	-	-	2156
3	-	5	normal	none	-	-	1201
4	-	7	normal	none	-	-	875
5	-	10	normal	none	-	-	678
6	-	1	even	none	-	-	1484
7	-	2	even	none	-	-	737
8	-	3	even	none	-	-	512
9	-	4	even	none	-	-	383
10	-	5	even	none	-	-	286
11	-	6	even	none	-	-	251
12	-	7	even	none	-	-	215
13	-	8	even	none	-	-	174
14	-	9	even	none	-	-	143
15	-	10	even	none	-	-	151
16	-	0,2	even	none	-	-	7426
17	-	0,4	even	none	-	-	3711
18	-	0,6	even	none	-	-	2437
19	-	0,8	even	none	-	-	1821
20	-	1	even	none	5	of C_{max}	2062
21	-	1	even	none	10	of C_{max}	1679
22	-	1	even	none	15	of C_{max}	1620
23	-	5	even	none	5	of C_{max}	304
24	-	5	even	none	10	of C_{max}	316
25	-	5	even	none	15	of C_{max}	287
26	-	10	even	none	5	of C_{max}	144
27	-	10	even	none	10	of C_{max}	127
28	-	10	even	none	15	of C_{max}	151
29	-	1	even	none	5	of cell value	31582
30	-	1	even	none	10	of cell value	16520
31	-	1	even	none	15	of cell value	11121
32	-	5	even	none	5	of cell value	5871
33	-	5	even	none	10	of cell value	3522
34	-	5	even	none	15	of cell value	2567
35	-	10	even	none	5	of cell value	3480
36	-	10	even	none	10	of cell value	1356
37	-	10	even	none	15	of cell value	1059
38	-	15	even	none	5	of cell value	2211
39	-	15	even	none	10	of cell value	1232
40	-	1	even	none	10	of C_{max}	1708
41	-	2	even	none	10	of C_{max}	799
42	-	3	even	none	10	of C_{max}	519
43	-	4	even	none	10	of C_{max}	411
44	-	5	even	none	10	of C_{max}	309
45	-	6	even	none	10	of C_{max}	220
46	-	7	even	none	10	of C_{max}	185
47	-	8	even	none	10	of C_{max}	183
48	-	9	even	none	10	of C_{max}	171
49	-	10	even	none	10	of C_{max}	161
m016							
1	-	1	normal	none	-	-	368210
2	-	3	normal	none	-	-	121182
3	-	5	normal	none	-	-	74207
4	-	7	normal	none	-	-	62066
5	-	10	normal	none	-	-	37597
6	-	1	even	none	-	-	94991
7	-	2	even	none	-	-	47983
8	-	3	even	none	-	-	31993
9	-	4	even	none	-	-	23860
10	-	5	even	none	-	-	19226
11	-	6	even	none	-	-	16023
12	-	7	even	none	-	-	13634
13	-	8	even	none	-	-	12278
14	-	9	even	none	-	-	10496
15	-	10	even	none	-	-	9524
16	-	0,2	even	none	-	-	426538
17	-	0,4	even	none	-	-	228517
18	-	0,6	even	none	-	-	155000
19	-	0,8	even	none	-	-	117314
m020							
4	-	7	normal	none	-	-	511589
5	-	10	normal	none	-	-	369230

model number	correlation length a [m]	C_{max} []	distribution type	Autocorrelation function	Kaiser effect [%]	based on	number of events
9	-	4	even	none	-	-	228736
10	-	5	even	none	-	-	183841
11	-	6	even	none	-	-	153331
12	-	7	even	none	-	-	131470
13	-	8	even	none	-	-	115742
14	-	9	even	none	-	-	103254
15	-	10	even	none	-	-	92377

Table A.2: 3D models and modeling parameters.