

E Testsheets: impact on buildings

This on-line Appendix is related to EPFL Thesis 8116 (DOI: 10.5075/epfl-thesis-8116) and contains the main data of the tests performed on the impact of bores and surges on buildings.

The main parameters involved in this study are defined in Figures E.1 and E.2. Table E.1 presents an overview of the performed tests .

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Note:

- $P_{h,max}$ is the surface porosity defined between $0 < z < h_{max}$.
- P_{tot} is the surface porosity defined between $0 < z < H_B$.
- h_{max} is the maximum wave height, measured without the building (Table D.1).
- H_{max} is the maximum run-up height, measured with the building.
- $F_{x,D,max}$ is the maximum horizontal force, computed using Eq. 7.5.
- The computed force $F_{x,D}$ is obtained with Eq. 7.4.
- C_R is the resistance coefficient at $T = \tau_{max}$, obtained experimentally.
- L_z is the cantilever arm, defined as $L_z = M_y / F_x$.

Appendix E. Testsheets: impact on buildings

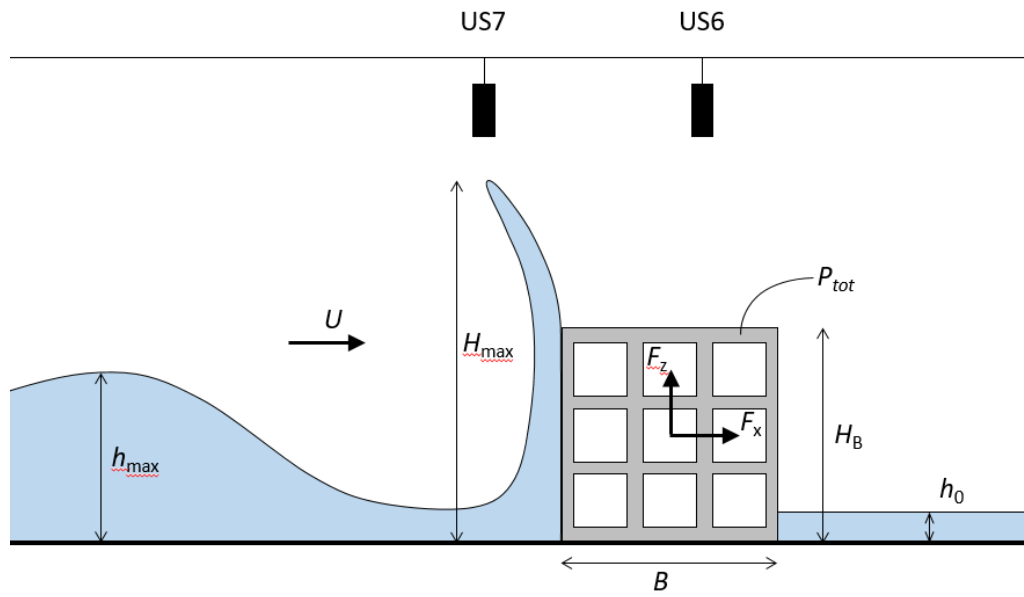


Figure E.1 – Definition sketch of the main parameters during the wave impact

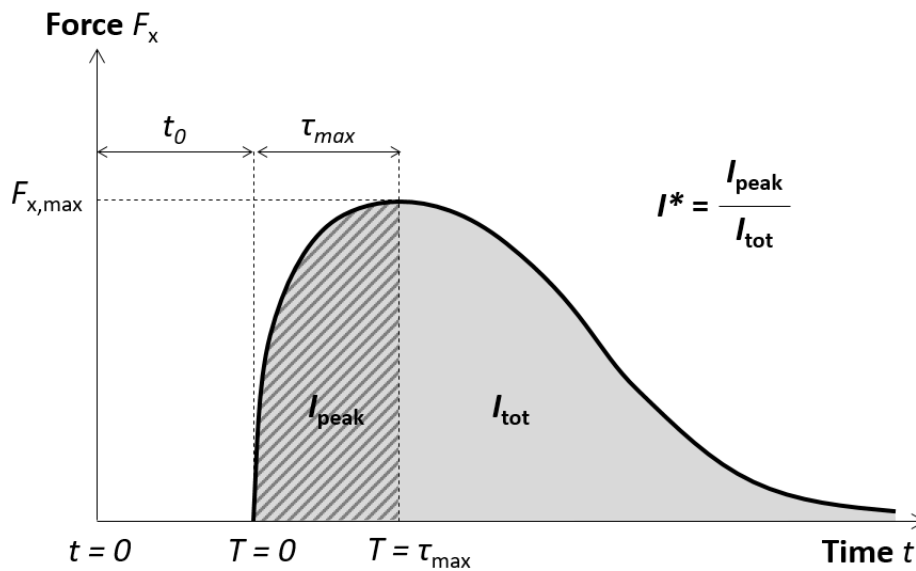


Figure E.2 – Definition sketch of the main force parameters

Test name	Configuration	Porosity	Wave type	Page
B0_H_WD1	Reference ($H_B = 0.6m$)	0	WD1	page 8
B0_H_WD2	Reference ($H_B = 0.6m$)	0	WD2	page 10
B0_H_WD3	Reference ($H_B = 0.6m$)	0	WD3	page 12
B0_H_WW1_1P	Reference ($H_B = 0.6m$)	0	WW1_1P	page 14
B0_H_WW1_2P	Reference ($H_B = 0.6m$)	0	WW1_2P	page 16
B0_H_WW1_3P	Reference ($H_B = 0.6m$)	0	WW1_3P	page 18
B0_H_WW3_1P	Reference ($H_B = 0.6m$)	0	WW3_1P	page 20
B0_H_WW3_2P	Reference ($H_B = 0.6m$)	0	WW3_2P	page 22
B0_H_WW3_3P	Reference ($H_B = 0.6m$)	0	WW3_3P	page 24
B0_H_WW5_1P	Reference ($H_B = 0.6m$)	0	WW5_1P	page 26
B0_H_WW5_2P	Reference ($H_B = 0.6m$)	0	WW5_2P	page 28
B0_H_WW5_3P	Reference ($H_B = 0.6m$)	0	WW5_3P	page 30
B0_0_WD1	Reference ($H_B = 0.3m$)	0	WD1	page 32
B0_0_WD2	Reference ($H_B = 0.3m$)	0	WD2	page 34
B0_0_WD3	Reference ($H_B = 0.3m$)	0	WD3	page 36
B0_0_WW1_1P	Reference ($H_B = 0.3m$)	0	WW1_1P	page 38
B0_0_WW1_2P	Reference ($H_B = 0.3m$)	0	WW1_2P	page 40
B0_0_WW1_3P	Reference ($H_B = 0.3m$)	0	WW1_3P	page 42
B0_0_WW3_1P	Reference ($H_B = 0.3m$)	0	WW3_1P	page 44
B0_0_WW3_2P	Reference ($H_B = 0.3m$)	0	WW3_2P	page 46
B0_0_WW3_3P	Reference ($H_B = 0.3m$)	0	WW3_3P	page 48
B0_0_WW5_1P	Reference ($H_B = 0.3m$)	0	WW5_1P	page 50
B0_0_WW5_2P	Reference ($H_B = 0.3m$)	0	WW5_2P	page 52
B0_0_WW5_3P	Reference ($H_B = 0.3m$)	0	WW5_3P	page 54
B17_0_WD1	All porous (0)	17	WD1	page 56
B17_0_WD2	All porous (0)	17	WD2	page 58
B17_0_WD3	All porous (0)	17	WD3	page 60
B17_0_WW1_1P	All porous (0)	17	WW1_1P	page 62
B17_0_WW1_2P	All porous (0)	17	WW1_2P	page 64
B17_0_WW3_1P	All porous (0)	17	WW3_1P	page 66
B17_0_WW3_2P	All porous (0)	17	WW3_2P	page 68
B17_0_WW5_1P	All porous (0)	17	WW5_1P	page 70
B17_0_WW5_2P	All porous (0)	17	WW5_2P	page 72
B17_F_WD1	Impervious sides (F)	17	WD1	page 74
B17_F_WD2	Impervious sides (F)	17	WD2	page 76
B17_F_WD3	Impervious sides (F)	17	WD3	page 78
B17_F_WW1_1P	Impervious sides (F)	17	WW1_1P	page 80
B17_F_WW1_2P	Impervious sides (F)	17	WW1_2P	page 82
B17_F_WW3_1P	Impervious sides (F)	17	WW3_1P	page 84
B17_F_WW3_2P	Impervious sides (F)	17	WW3_2P	page 86

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B17_F_WW5_1P	Impervious sides (F)	17	WW5_1P	page 88
B17_F_WW5_2P	Impervious sides (F)	17	WW5_2P	page 90
B17_B_WD1	Impervious back (B)	17	WD1	page 92
B17_B_WD2	Impervious back (B)	17	WD2	page 94
B17_B_WD3	Impervious back (B)	17	WD3	page 96
B17_B_WW1_1P	Impervious back (B)	17	WW1_1P	page 80
B17_B_WW1_2P	Impervious back (B)	17	WW1_2P	page 82
B17_B_WW3_1P	Impervious back (B)	17	WW3_1P	page 84
B17_B_WW3_2P	Impervious back (B)	17	WW3_2P	page 86
B17_S_WD1	With side buildings (S)	17	WD1	page 106
B17_S_WD2	With side buildings (S)	17	WD2	page 108
B17_S_WD3	With side buildings (S)	17	WD3	page 110
B17_S_WW1_1P	With side buildings (S)	17	WW1_1P	page 112
B17_S_WW1_2P	With side buildings (S)	17	WW1_2P	page 114
B17_S_WW3_1P	With side buildings (S)	17	WW3_1P	page 116
B17_S_WW3_2P	With side buildings (S)	17	WW3_2P	page 118
B31.34_0_WD1	All porous (0)	31.34	WD1	page 120
B31.34_0_WD2	All porous (0)	31.34	WD2	page 122
B31.34_0_WD3	All porous (0)	31.34	WD3	page 124
B31.34_0_WW1_1P	All porous (0)	31.34	WW1_1P	page 126
B31.34_0_WW1_2P	All porous (0)	31.34	WW1_2P	page 128
B31.34_0_WW3_1P	All porous (0)	31.34	WW3_1P	page 130
B31.34_0_WW3_2P	All porous (0)	31.34	WW3_2P	page 132
B31.34_0_WW5_1P	All porous (0)	31.34	WW5_1P	page 134
B31.34_0_WW5_2P	All porous (0)	31.34	WW5_2P	page 136
B31.34_F_WD1	Impervious sides (F)	31.34	WD1	page 138
B31.34_F_WD2	Impervious sides (F)	31.34	WD2	page 140
B31.34_F_WD3	Impervious sides (F)	31.34	WD3	page 142
B31.34_F_WW1_1P	Impervious sides (F)	31.34	WW1_1P	page 144
B31.34_F_WW1_2P	Impervious sides (F)	31.34	WW1_2P	page 146
B31.34_F_WW3_1P	Impervious sides (F)	31.34	WW3_1P	page 148
B31.34_F_WW3_2P	Impervious sides (F)	31.34	WW3_2P	page 150
B31.34_F_WW5_1P	Impervious sides (F)	31.34	WW5_1P	page 152
B31.34_F_WW5_2P	Impervious sides (F)	31.34	WW5_2P	page 154
B31.34_S_WD1	With side buildings (S)	31.34	WD1	page 156
B31.34_S_WD2	With side buildings (S)	31.34	WD2	page 158
B31.34_S_WD3	With side buildings (S)	31.34	WD3	page 160
B31.34_S_WW1_1P	With side buildings (S)	31.34	WW1_1P	page 162
B31.34_S_WW1_2P	With side buildings (S)	31.34	WW1_2P	page 164
B31.34_S_WW3_1P	With side buildings (S)	31.34	WW3_1P	page 166
B31.34_S_WW3_2P	With side buildings (S)	31.34	WW3_2P	page 168
B34_0_WD1	All porous (0)	34	WD1	page 170

B34_0_WD2	All porous (0)	34	WD2	page 172
B34_0_WD3	All porous (0)	34	WD3	page 174
B34_0_WW1_1P	All porous (0)	34	WW1_1P	page 176
B34_0_WW1_2P	All porous (0)	34	WW1_2P	page 178
B34_0_WW3_1P	All porous (0)	34	WW3_1P	page 180
B34_0_WW3_2P	All porous (0)	34	WW3_2P	page 182
B34_0_WW5_1P	All porous (0)	34	WW5_1P	page 184
B34_0_WW5_2P	All porous (0)	34	WW5_2P	page 186
B34_F_WD1	Impervious sides (F)	34	WD1	page 188
B34_F_WD2	Impervious sides (F)	34	WD2	page 190
B34_F_WD3	Impervious sides (F)	34	WD3	page 192
B34_F_WW1_1P	Impervious sides (F)	34	WW1_1P	page 194
B34_F_WW1_2P	Impervious sides (F)	34	WW1_2P	page 196
B34_F_WW3_1P	Impervious sides (F)	34	WW3_1P	page 198
B34_F_WW3_2P	Impervious sides (F)	34	WW3_2P	page 200
B34_F_WW5_1P	Impervious sides (F)	34	WW5_1P	page 202
B34_F_WW5_2P	Impervious sides (F)	34	WW5_2P	page 204
B34_B_WD1	Impervious back (B)	34	WD1	page 206
B34_B_WD2	Impervious back (B)	34	WD2	page 208
B34_B_WD3	Impervious back (B)	34	WD3	page 210
B34_B_WW1_1P	Impervious back (B)	34	WW1_1P	page 212
B34_B_WW1_2P	Impervious back (B)	34	WW1_2P	page 214
B34_B_WW3_1P	Impervious back (B)	34	WW3_1P	page 216
B34_B_WW3_2P	Impervious back (B)	34	WW3_2P	page 218
B34_S_WD1	With side buildings (S)	34	WD1	page 220
B34_S_WD2	With side buildings (S)	34	WD2	page 222
B34_S_WD3	With side buildings (S)	34	WD3	page 224
B34_S_WW1_1P	With side buildings (S)	34	WW1_1P	page 226
B34_S_WW1_2P	With side buildings (S)	34	WW1_2P	page 228
B34_S_WW3_1P	With side buildings (S)	34	WW3_1P	page 230
B34_S_WW3_2P	With side buildings (S)	34	WW3_2P	page 232
B42.24_0_WD1	All porous (0)	42.24	WD1	page 234
B42.24_0_WD2	All porous (0)	42.24	WD2	page 236
B42.24_0_WD3	All porous (0)	42.24	WD3	page 238
B42.24_0_WW1_1P	All porous (0)	42.24	WW1_1P	page 240
B42.24_0_WW1_2P	All porous (0)	42.24	WW1_2P	page 242
B42.24_0_WW3_1P	All porous (0)	42.24	WW3_1P	page 244
B42.24_0_WW3_2P	All porous (0)	42.24	WW3_2P	page 246
B42.24_0_WW5_1P	All porous (0)	42.24	WW5_1P	page 248
B42.24_0_WW5_2P	All porous (0)	42.24	WW5_2P	page 250
B42.24_F_WD1	Impervious sides (F)	42.24	WD1	page 252
B42.24_F_WD2	Impervious sides (F)	42.24	WD2	page 254

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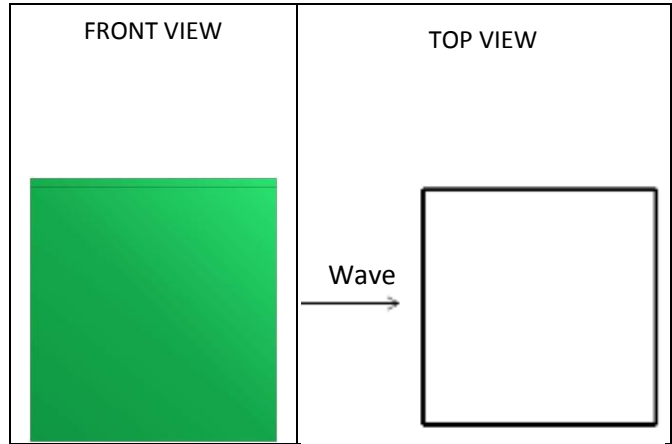
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B42.24_F_WW1_1P	Impervious sides (F)	42.24	WW1_1P	page 258
B42.24_F_WW1_2P	Impervious sides (F)	42.24	WW1_2P	page 260
B42.24_F_WW3_1P	Impervious sides (F)	42.24	WW3_1P	page 262
B42.24_F_WW3_2P	Impervious sides (F)	42.24	WW3_2P	page 264
B42.24_F_WW5_1P	Impervious sides (F)	42.24	WW5_1P	page 266
B42.24_F_WW5_2P	Impervious sides (F)	42.24	WW5_2P	page 268
B42.24_B_WD1	Impervious back (B)	42.24	WD1	page 270
B42.24_B_WD2	Impervious back (B)	42.24	WD2	page 272
B42.24_B_WD3	Impervious back (B)	42.24	WD3	page 274
B42.24_B_WW1_1P	Impervious back (B)	42.24	WW1_1P	page 276
B42.24_B_WW1_2P	Impervious back (B)	42.24	WW1_2P	page 278
B42.24_B_WW3_1P	Impervious back (B)	42.24	WW3_1P	page 280
B42.24_B_WW3_2P	Impervious back (B)	42.24	WW3_2P	page 282
B42.24_S_WD1	With side buildings (S)	42.24	WD1	page 284
B42.24_S_WD2	With side buildings (S)	42.24	WD2	page 284
B42.24_S_WD3	With side buildings (S)	42.24	WD3	page 284
B42.24_S_WW1_1P	With side buildings (S)	42.24	WW1_1P	page 290
B42.24_S_WW1_2P	With side buildings (S)	42.24	WW1_2P	page 292
B42.24_S_WW3_1P	With side buildings (S)	42.24	WW3_1P	page 294
B42.24_S_WW3_2P	With side buildings (S)	42.24	WW3_2P	page 296
B60_0_WD1	All porous (0)	60	WD1	page 298
B60_0_WD2	All porous (0)	60	WD2	page 300
B60_0_WD3	All porous (0)	60	WD3	page 302
B60_0_WW1_1P	All porous (0)	60	WW1_1P	page 304
B60_0_WW1_2P	All porous (0)	60	WW1_2P	page 306
B60_0_WW3_1P	All porous (0)	60	WW3_1P	page 308
B60_0_WW3_2P	All porous (0)	60	WW3_2P	page 310
B60_0_WW5_1P	All porous (0)	60	WW5_1P	page 312
B60_0_WW5_2P	All porous (0)	60	WW5_2P	page 314
B60_F_WD1	Impervious sides (F)	60	WD1	page 316
B60_F_WD2	Impervious sides (F)	60	WD2	page 318
B60_F_WD3	Impervious sides (F)	60	WD3	page 320
B60_F_WW1_1P	Impervious sides (F)	60	WW1_1P	page 322
B60_F_WW1_2P	Impervious sides (F)	60	WW1_2P	page 324
B60_F_WW3_1P	Impervious sides (F)	60	WW3_1P	page 326
B60_F_WW3_2P	Impervious sides (F)	60	WW3_2P	page 328
B60_F_WW5_1P	Impervious sides (F)	60	WW5_1P	page 330
B60_F_WW5_2P	Impervious sides (F)	60	WW5_2P	page 332
B60_B_WD1	Impervious back (B)	60	WD1	page 334
B60_B_WD2	Impervious back (B)	60	WD2	page 336
B60_B_WD3	Impervious back (B)	60	WD3	page 338

B60_B_WW1_1P	Impervious back (B)	60	WW1_1P	page 340
B60_B_WW1_2P	Impervious back (B)	60	WW1_2P	page 342
B60_B_WW3_1P	Impervious back (B)	60	WW3_1P	page 344
B60_B_WW3_2P	Impervious back (B)	60	WW3_2P	page 346
B60_S_WD1	With side buildings (S)	60	WD1	page 348
B60_S_WD2	With side buildings (S)	60	WD2	page 350
B60_S_WD3	With side buildings (S)	60	WD3	page 352
B60_S_WW1_1P	With side buildings (S)	60	WW1_1P	page 354
B60_S_WW1_2P	With side buildings (S)	60	WW1_2P	page 356
B60_S_WW3_1P	With side buildings (S)	60	WW3_1P	page 358
B60_S_WW3_2P	With side buildings (S)	60	WW3_2P	page 360
B84_F_WD1	Impervious sides (F)	84	WD1	page 362
B84_F_WD2	Impervious sides (F)	84	WD2	page 364
B84_F_WD3	Impervious sides (F)	84	WD3	page 366
B84_F_WW1_1P	Impervious sides (F)	84	WW1_1P	page 368
B84_F_WW1_2P	Impervious sides (F)	84	WW1_2P	page 370
B84_F_WW3_1P	Impervious sides (F)	84	WW3_1P	page 372
B84_F_WW3_2P	Impervious sides (F)	84	WW3_2P	page 374
B84_F_WW5_1P	Impervious sides (F)	84	WW5_1P	page 376
B84_F_WW5_2P	Impervious sides (F)	84	WW5_2P	page 378

Table E.1 – Experimental program of all the tests conducted in the present research

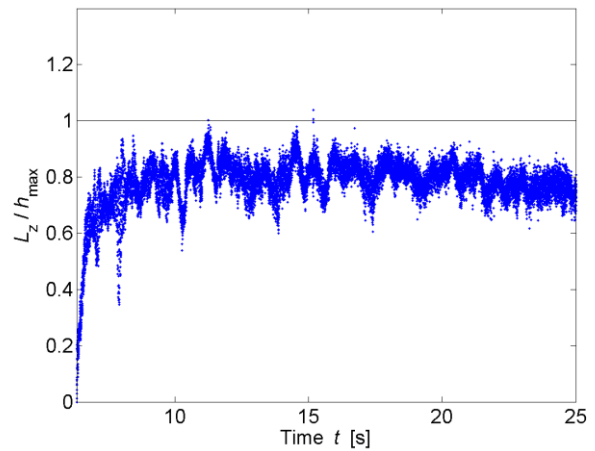
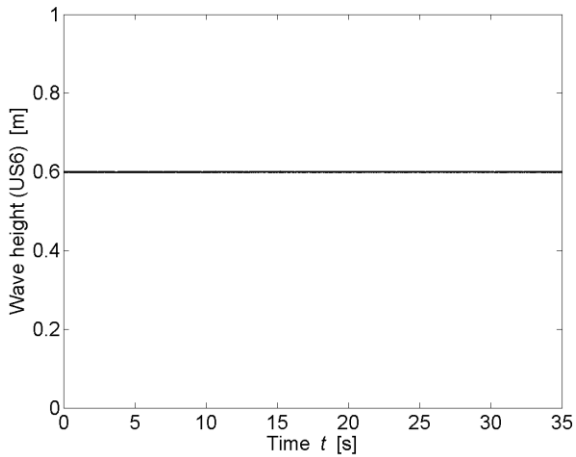
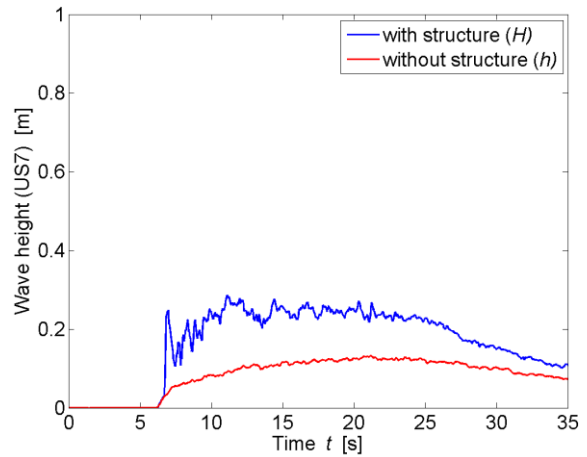
TEST PARAMETERS

Name	B0_H_WD1_1		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.4	[m]
Initial still water depth	h_0	0.0	[m]
Front celerity	U	2.357	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.287	[m]

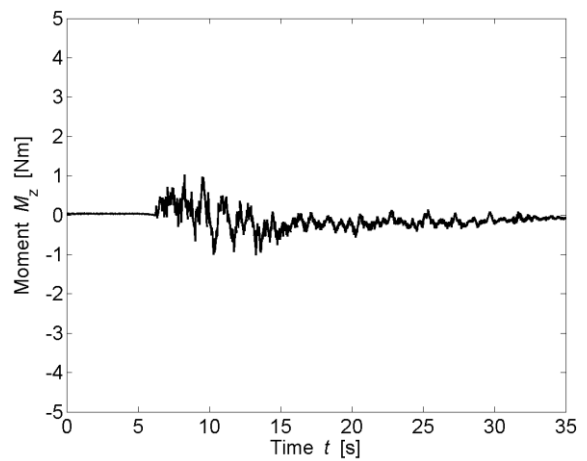
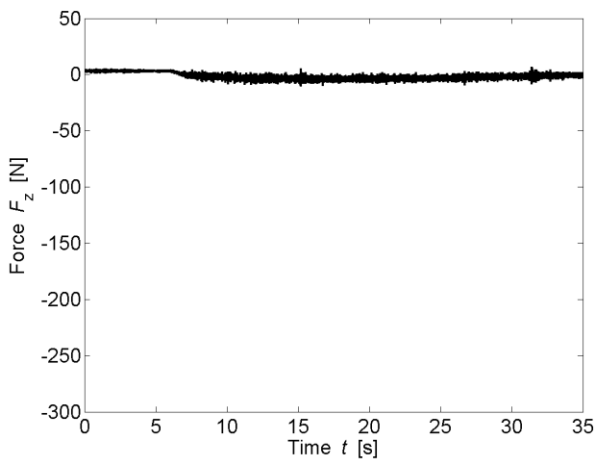
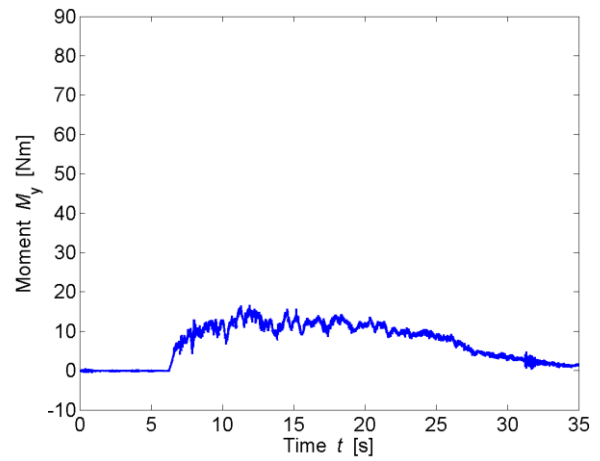
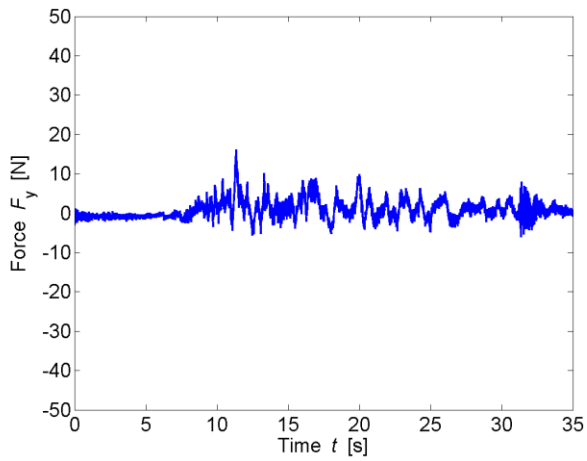
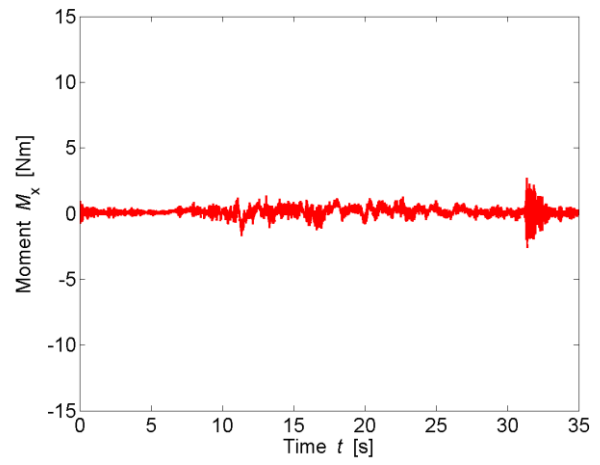
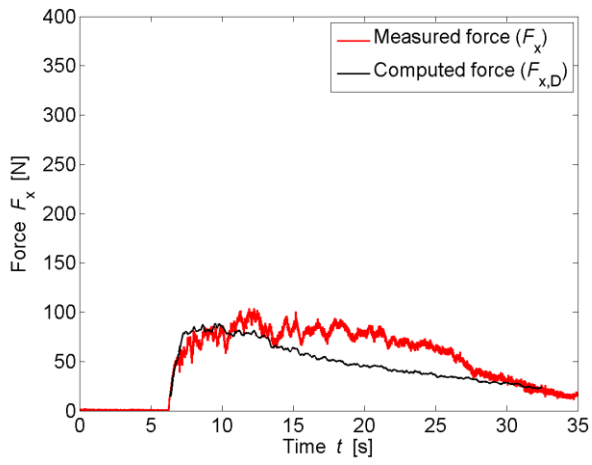


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.089	104.073	[N]
F_y	-10.025	16.160	[N]
F_z	-10.153	6.715	[N]
M_x	-4.029	4.200	[Nm]
M_y	-1.224	16.604	[Nm]
M_z	-1.013	1.022	[Nm]
Predicted Force	$F_{x,D,max}$	88.318	[N]
Initial time	t_0	6.363	[s]
Time to peak	τ_{max}	5.896	[s]
Total impulse	I_{tot}	1511.405	[Ns]
Peak Impulse	I_{peak}	430.960	[Ns]
Relative impulse	I^*	0.276	[-]
Wave height at $F_{x,max}$	h_M	0.810	[-]
Resistance coefficient	C_R	2.376	[-]

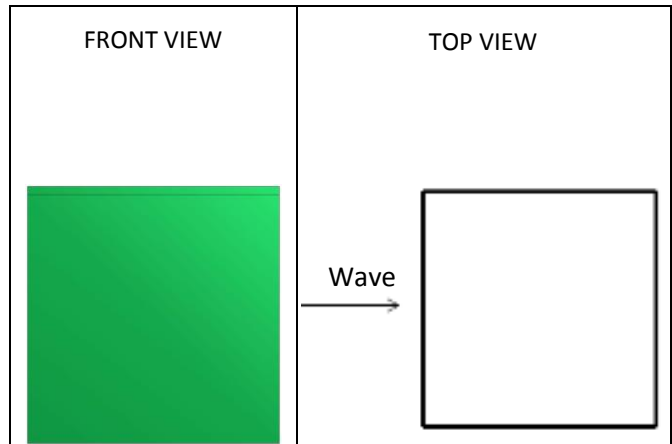


* All parameters are presented and defined at the beginning of the Appendix



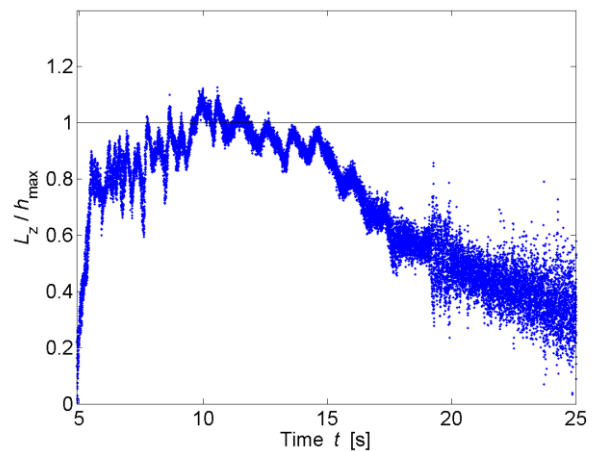
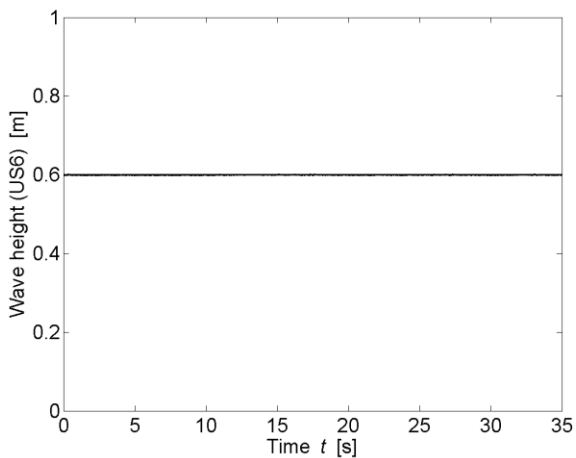
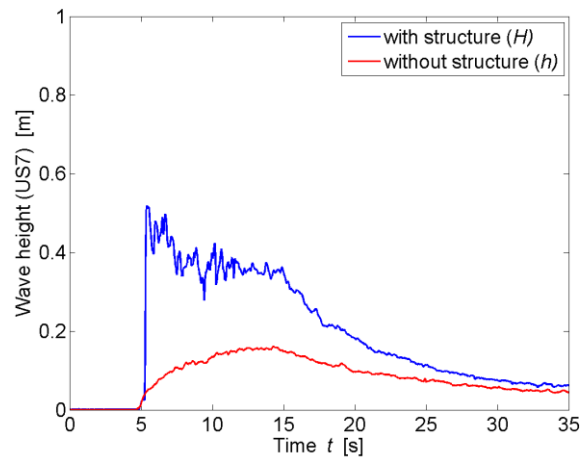
TEST PARAMETERS

Name	B0_H_WD2_2		
Repetitions	3		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.070	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.519	[m]

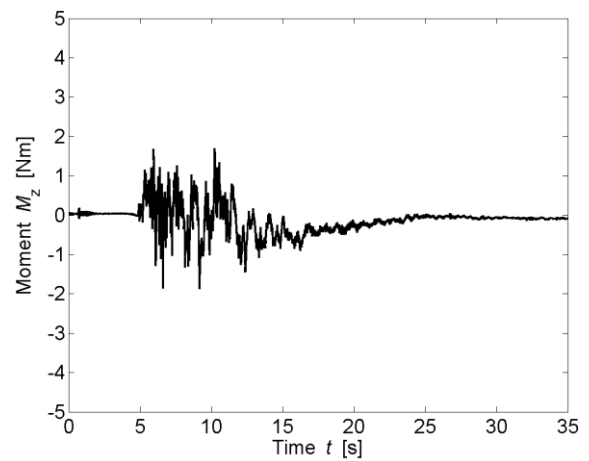
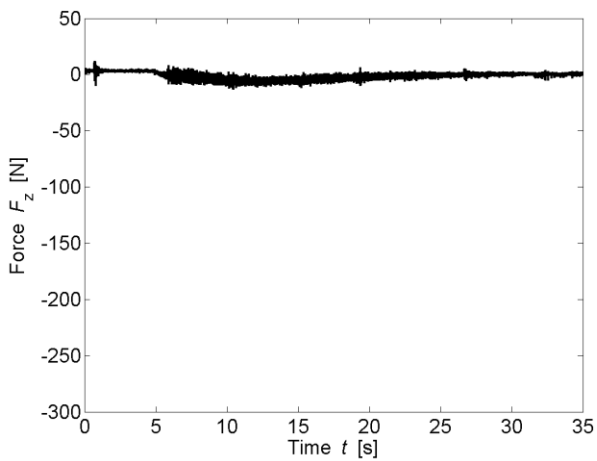
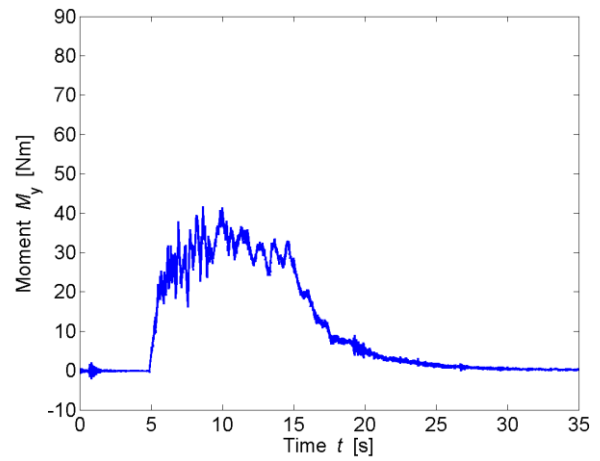
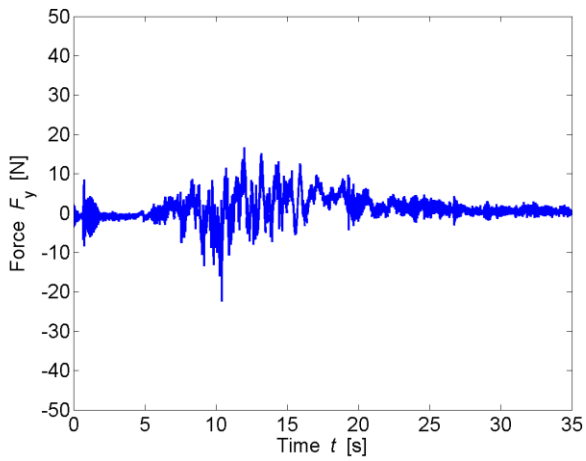
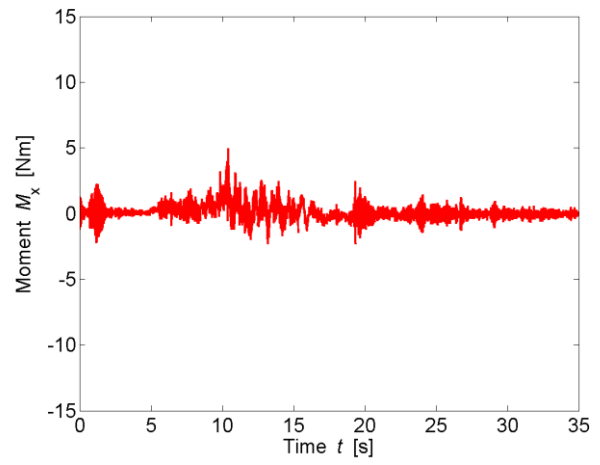
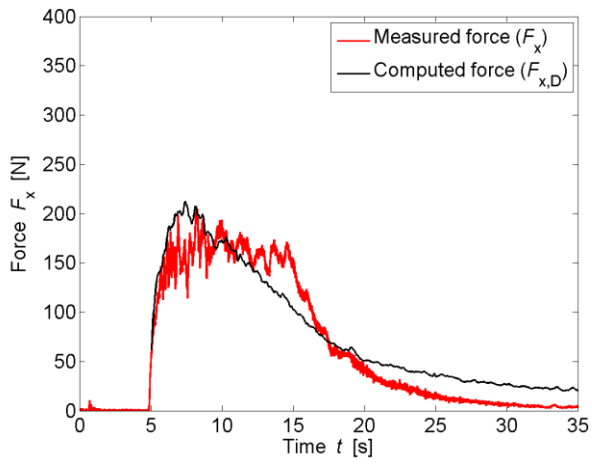


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.153	204.381	[N]
F_y	-22.457	16.698	[N]
F_z	-13.339	8.215	[N]
M_x	-3.821	4.966	[Nm]
M_y	-2.139	41.691	[Nm]
M_z	-1.872	1.698	[Nm]
Predicted Force	$F_{x,D,max}$	212.377	[N]
Initial time	t_0	4.956	[s]
Time to peak	τ_{max}	3.321	[s]
Total impulse	I_{tot}	2134.957	[Ns]
Peak Impulse	I_{peak}	464.765	[Ns]
Relative impulse	I^*	0.230	[-]
Wave height at $F_{x,max}$	h_M	0.718	[-]
Resistance coefficient	C_R	1.933	[-]

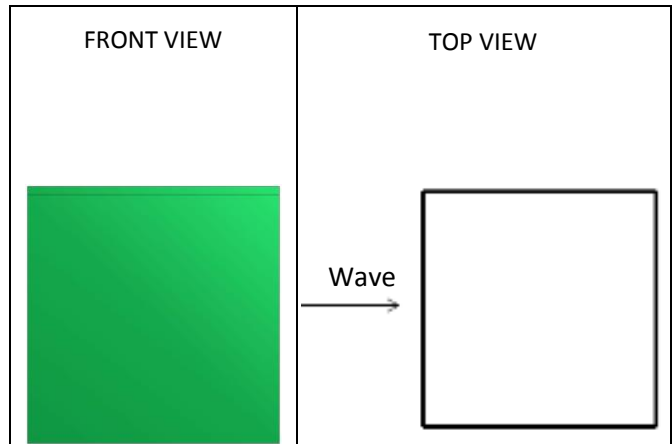


* All parameters are presented and defined at the beginning of the Appendix



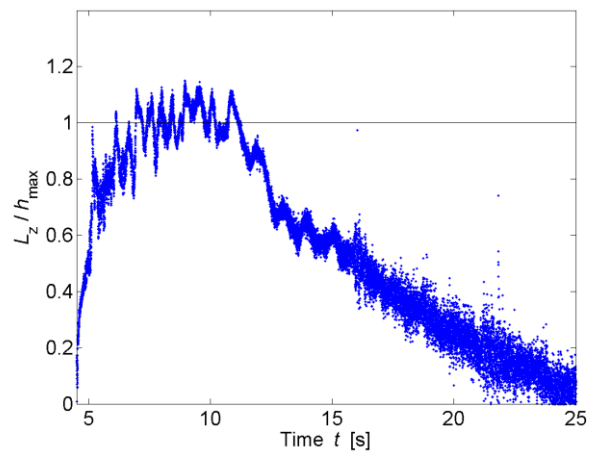
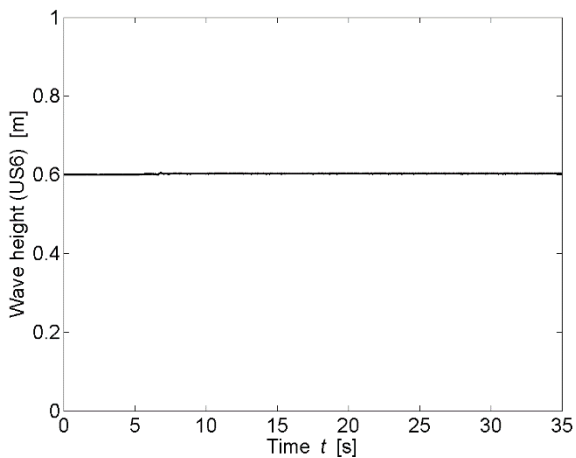
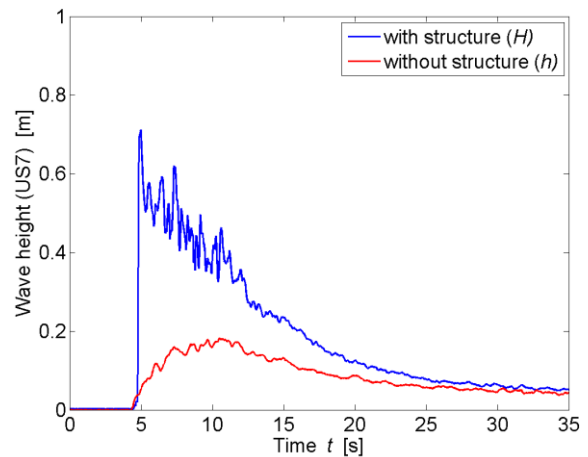
TEST PARAMETERS

Name	B0_H_WD3_4		
Repetitions	4		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.589	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.712	[m]

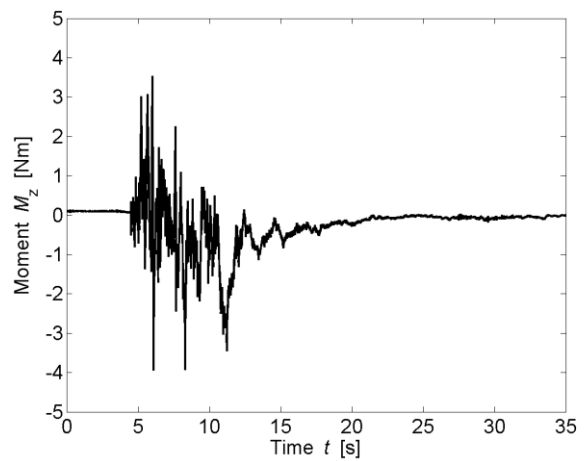
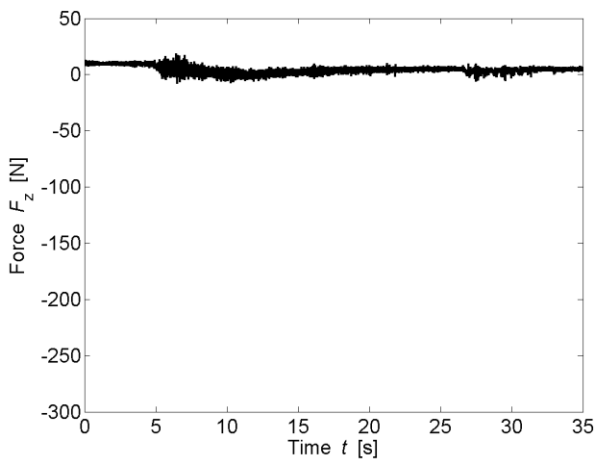
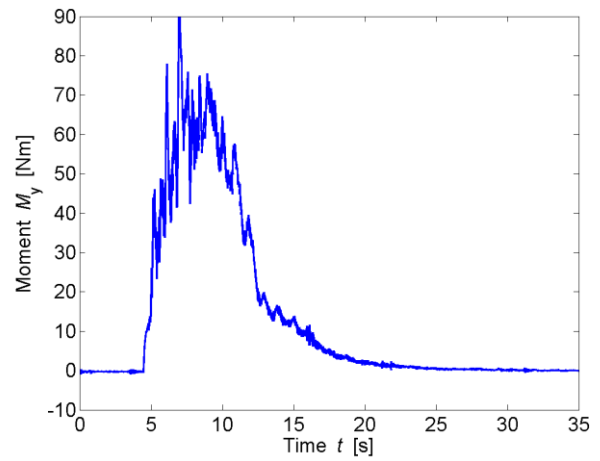
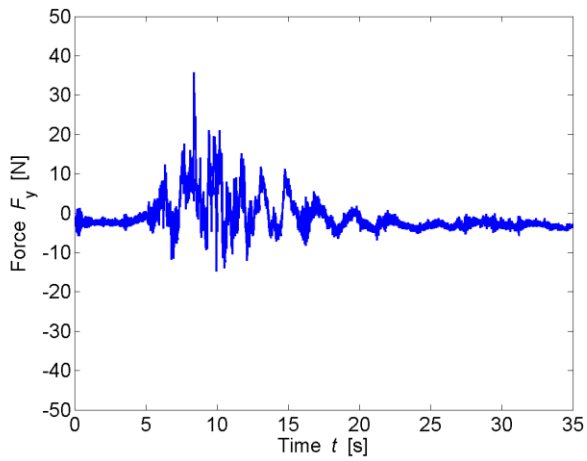
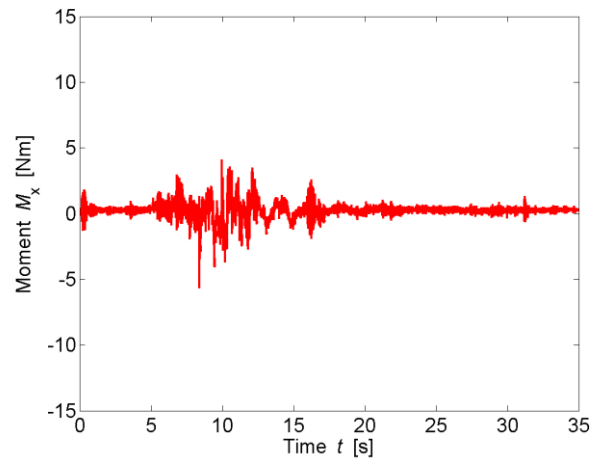
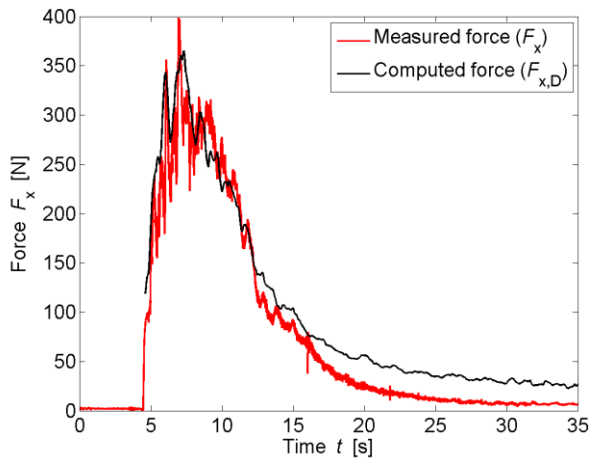


IMPACT PARAMETERS

	Min	Max	Unity
F_x	0.160	398.494	[N]
F_y	-14.856	35.790	[N]
F_z	-8.008	19.002	[N]
M_x	-5.668	6.318	[Nm]
M_y	-1.023	94.903	[Nm]
M_z	-3.949	3.539	[Nm]
Predicted Force	$F_{x,D,max}$	365.348	[N]
Initial time	t_0	4.551	[s]
Time to peak	τ_{max}	2.417	[s]
Total impulse	I_{tot}	2512.825	[Ns]
Peak Impulse	I_{peak}	510.118	[Ns]
Relative impulse	I^*	0.218	[-]
Wave height at $F_{x,max}$	h_M	0.770	[-]
Resistance coefficient	C_R	2.055	[-]

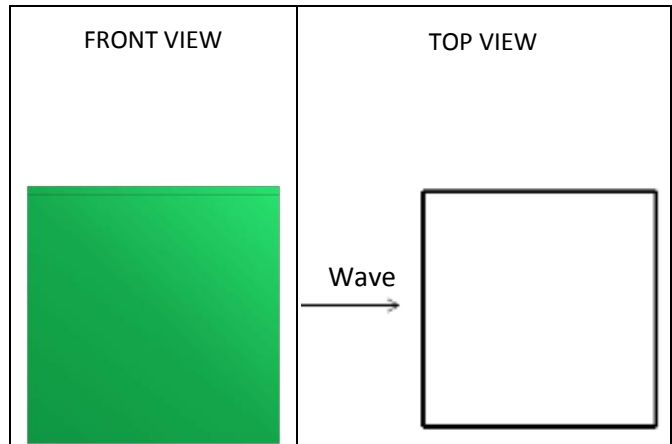


* All parameters are presented and defined at the beginning of the Appendix



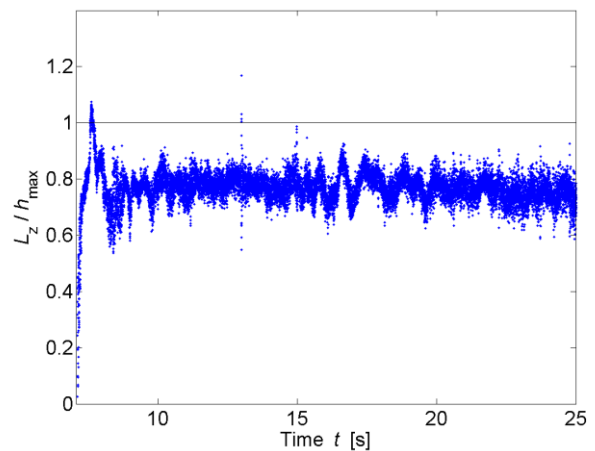
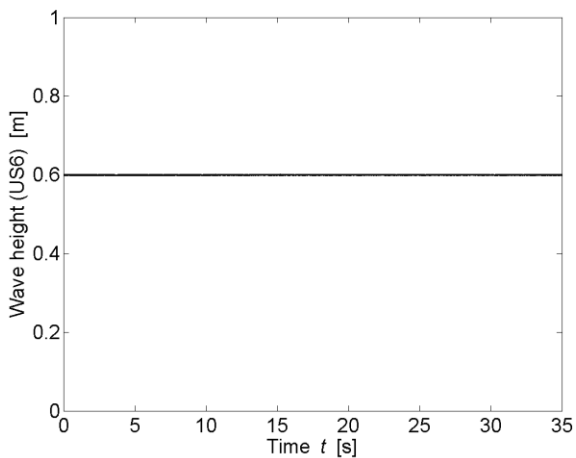
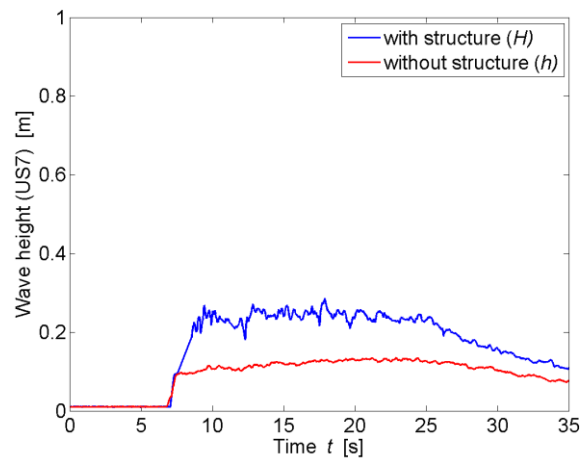
TEST PARAMETERS

Name	B0_H_WW1_1P_2		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.112	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.275	[m]

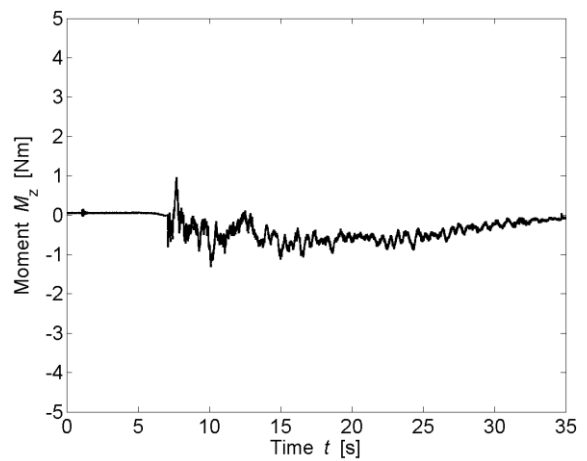
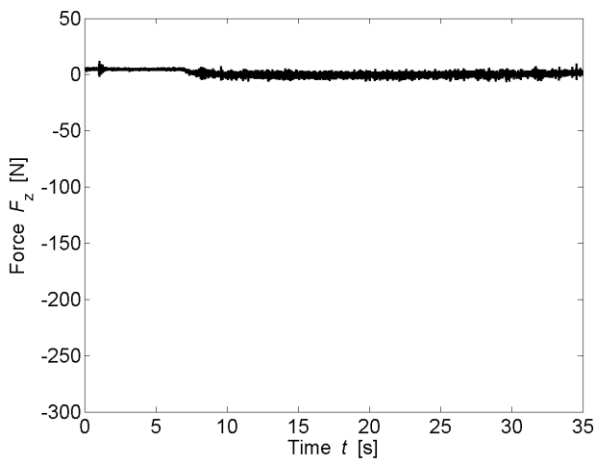
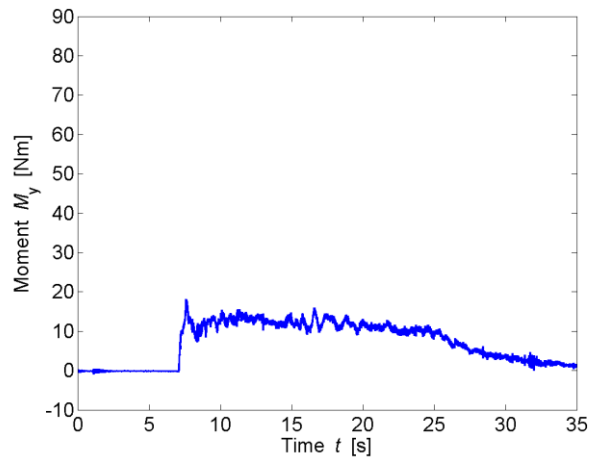
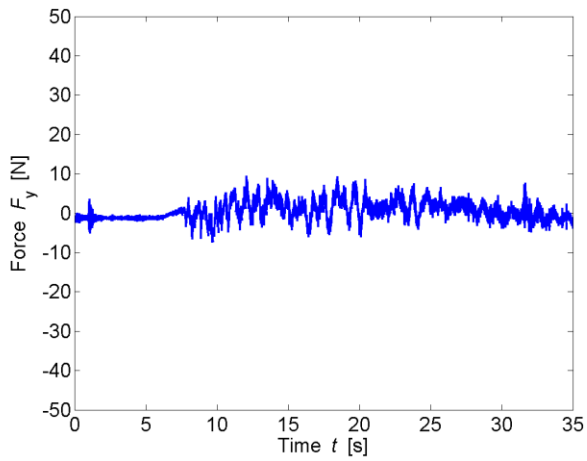
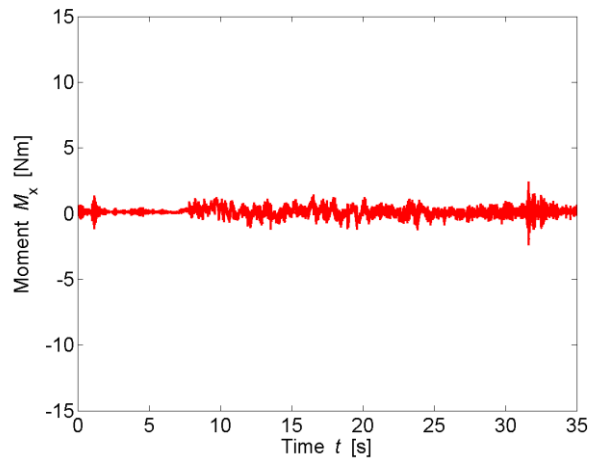
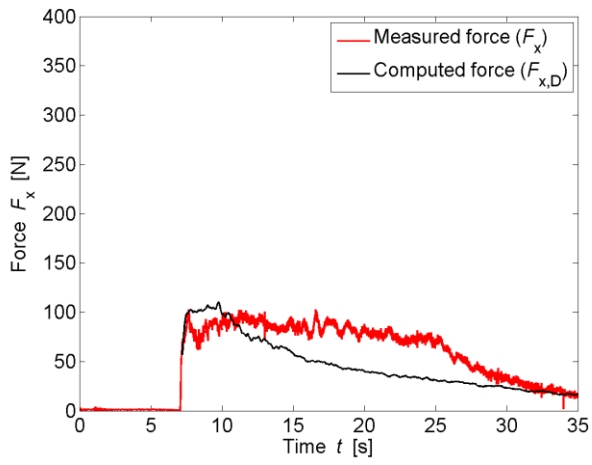


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.276	102.784	[N]
F_y	-10.710	12.409	[N]
F_z	-9.068	7.813	[N]
M_x	-4.362	4.593	[Nm]
M_y	-1.129	18.189	[Nm]
M_z	-1.315	0.954	[Nm]
Predicted Force	$F_{x,D,max}$	109.967	[N]
Initial time	t_0	7.130	[s]
Time to peak	τ_{max}	0.555	[s]
Total impulse	I_{tot}	1609.989	[Ns]
Peak Impulse	I_{peak}	42.880	[Ns]
Relative impulse	I^*	0.026	[-]
Wave height at $F_{x,max}$	h_M	0.698	[-]
Resistance coefficient	C_R	1.857	[-]

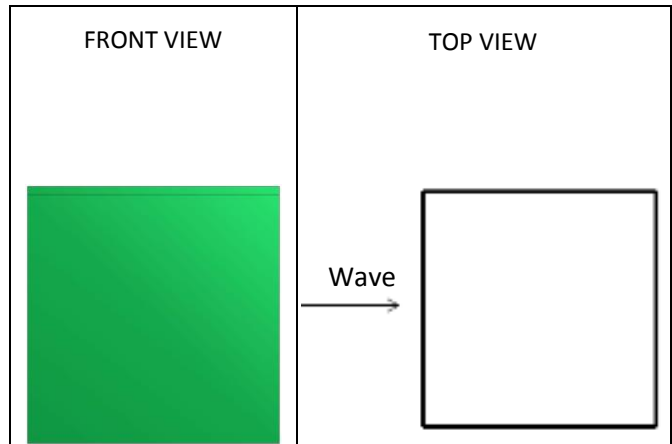


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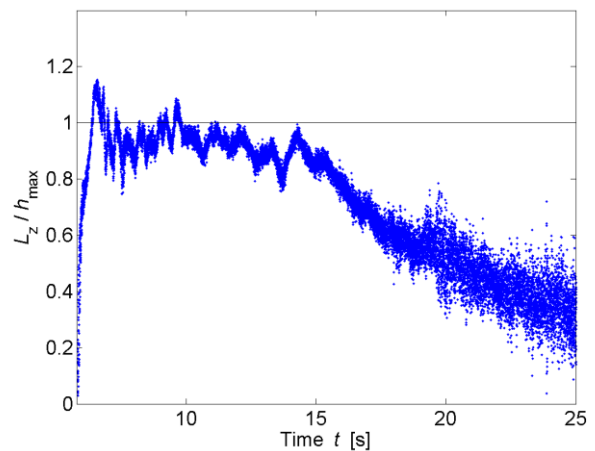
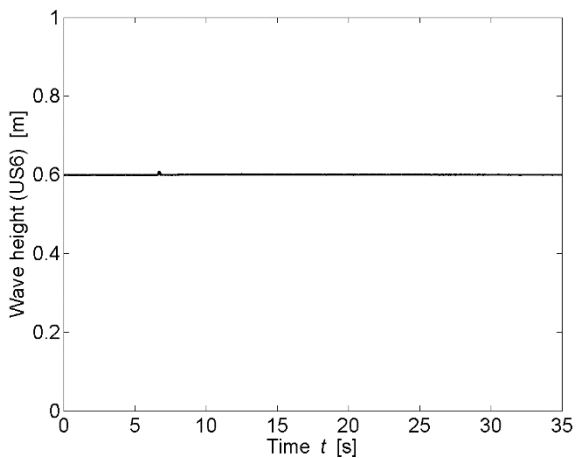
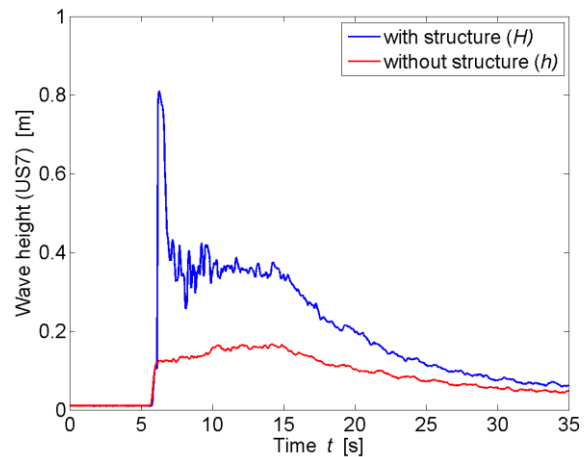
TEST PARAMETERS

Name	B0_H_WW1_2P_1		
Repetitions	3		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.726	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.810	[m]

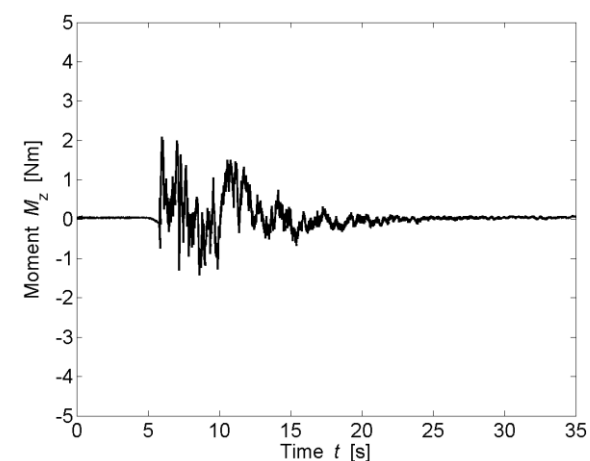
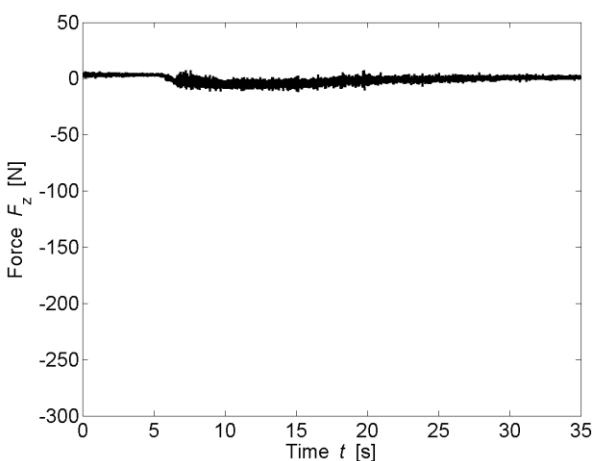
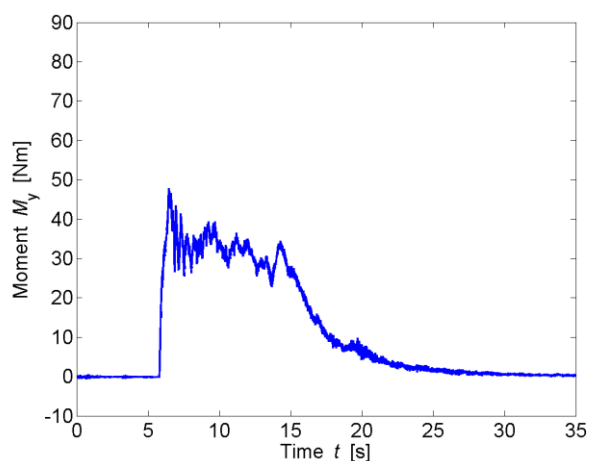
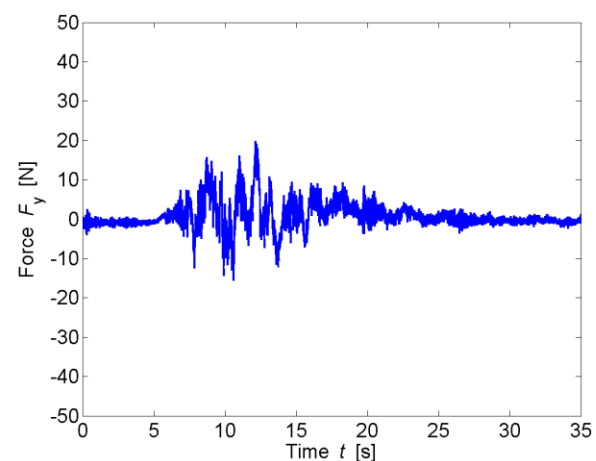
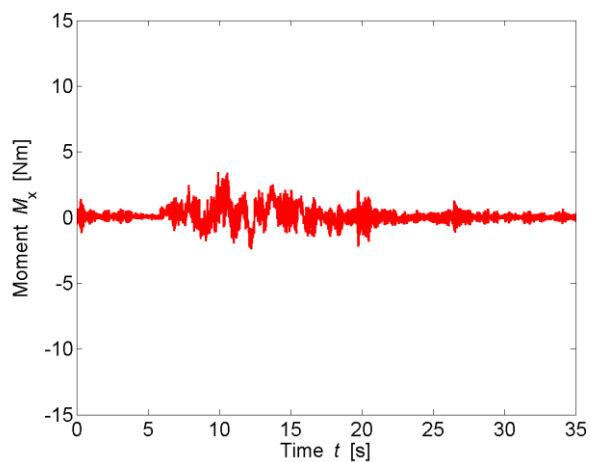
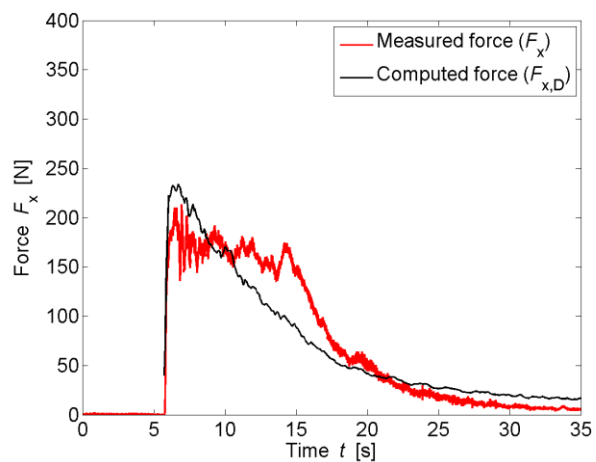


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.282	213.332	[N]
F_y	-15.654	19.880	[N]
F_z	-11.652	7.465	[N]
M_x	-3.378	3.606	[Nm]
M_y	-1.114	47.833	[Nm]
M_z	-1.430	2.089	[Nm]
Predicted Force	$F_{x,D,max}$	233.827	[N]
Initial time	t_0	5.820	[s]
Time to peak	τ_{max}	1.146	[s]
Total impulse	I_{tot}	2170.104	[Ns]
Peak Impulse	I_{peak}	196.969	[Ns]
Relative impulse	I^*	0.096	[-]
Wave height at $F_{x,max}$	h_M	0.735	[-]
Resistance coefficient	C_R	1.700	[-]

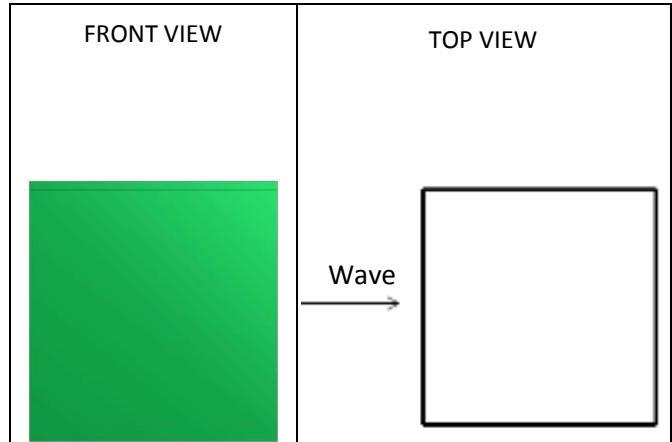


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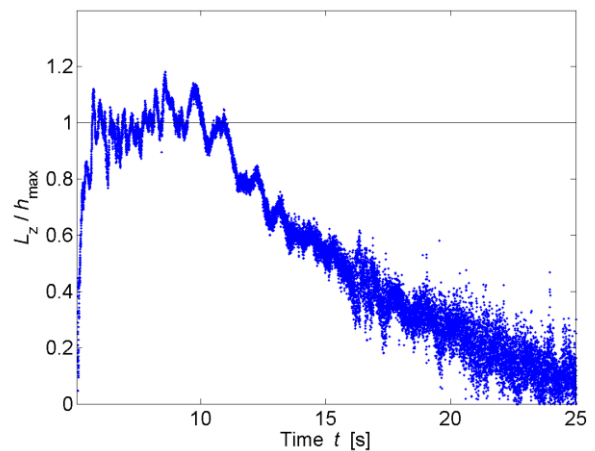
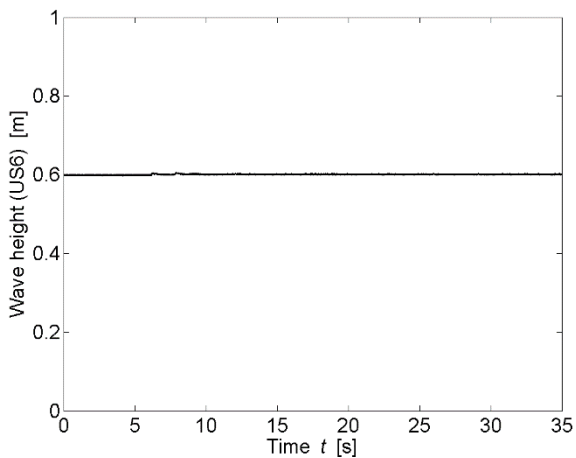
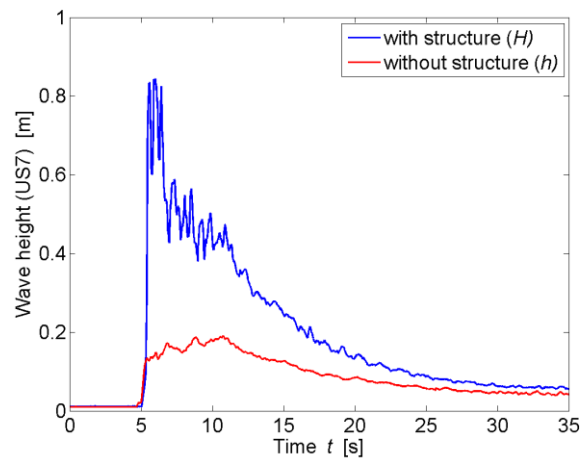
TEST PARAMETERS

Name	B0_H_WW1_3P_3		
Repetitions	4		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW1_3P)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	3.086	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.843	[m]

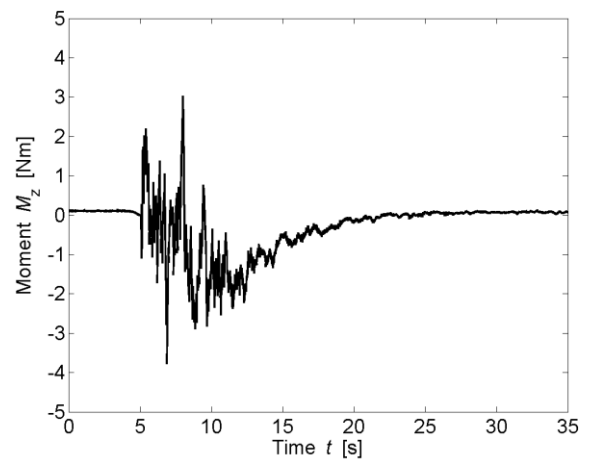
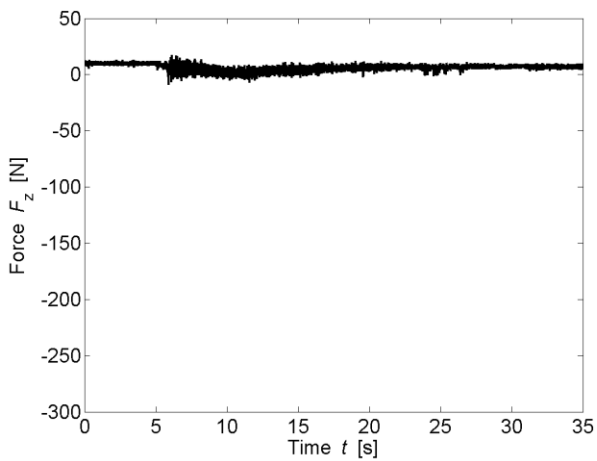
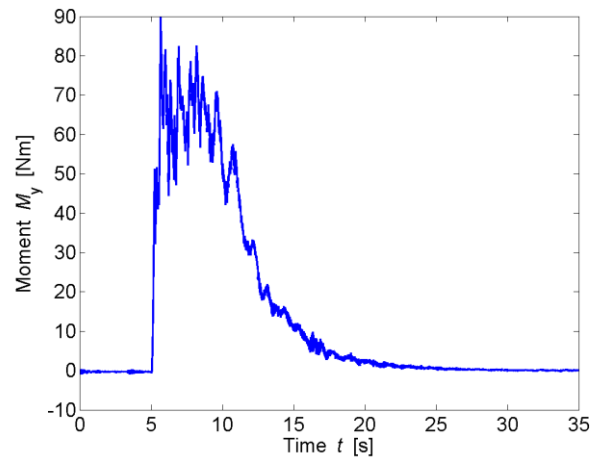
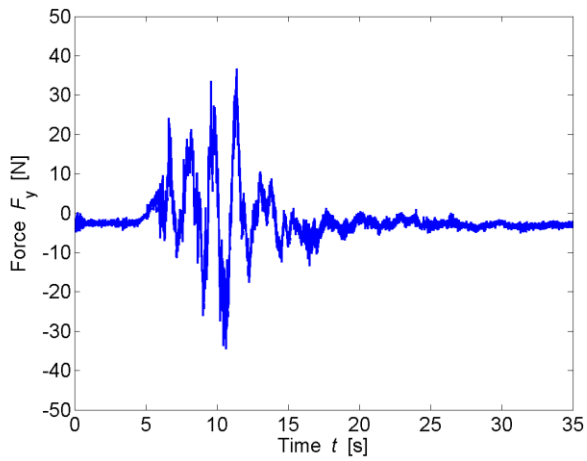
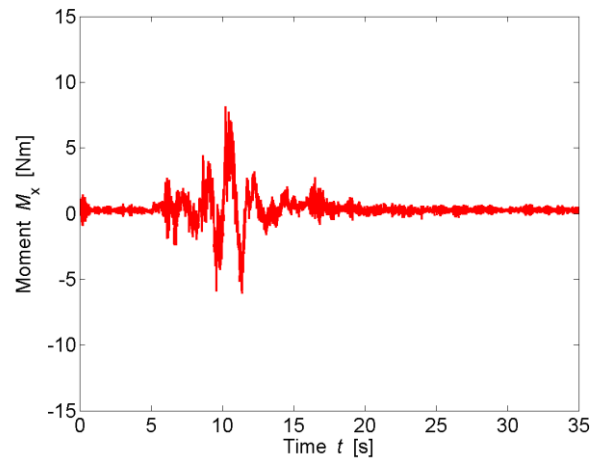
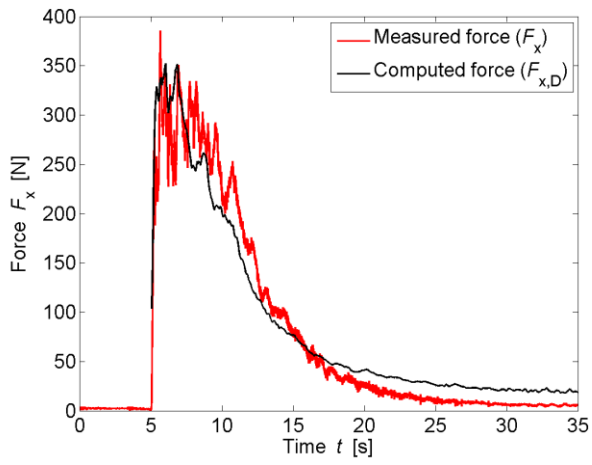


IMPACT PARAMETERS

	Min	Max	Unity
F_x	0.063	385.710	[N]
F_y	-34.547	36.672	[N]
F_z	-8.758	17.126	[N]
M_x	-6.064	8.143	[Nm]
M_y	-1.274	92.745	[Nm]
M_z	-3.783	3.030	[Nm]
Predicted Force	$F_{x,D,max}$	352.515	[N]
Initial time	t_0	5.096	[s]
Time to peak	τ_{max}	0.566	[s]
Total impulse	I_{tot}	2480.209	[Ns]
Peak Impulse	I_{peak}	125.253	[Ns]
Relative impulse	I^*	0.054	[-]
Wave height at $F_{x,max}$	h_M	0.712	[-]
Resistance coefficient	C_R	2.012	[-]

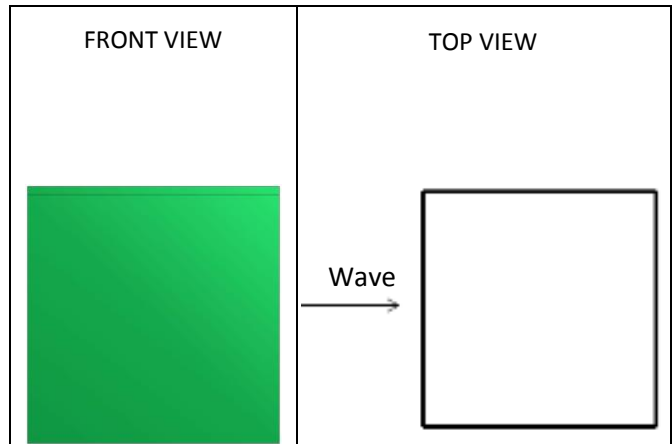


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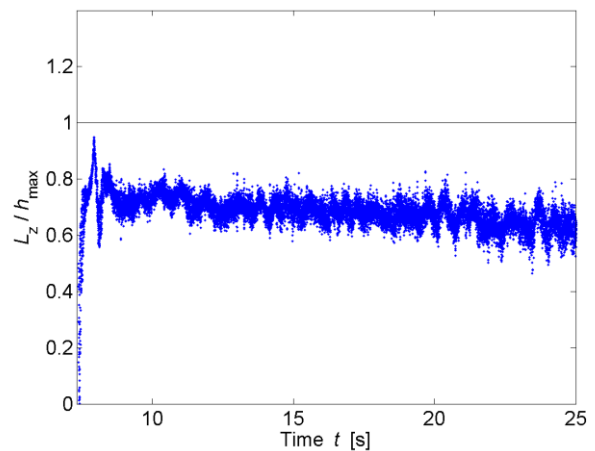
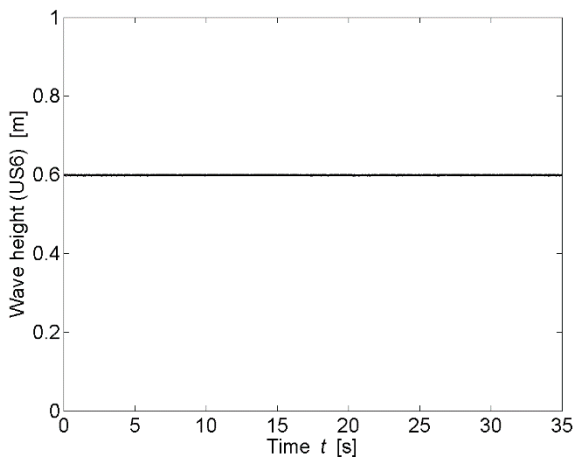
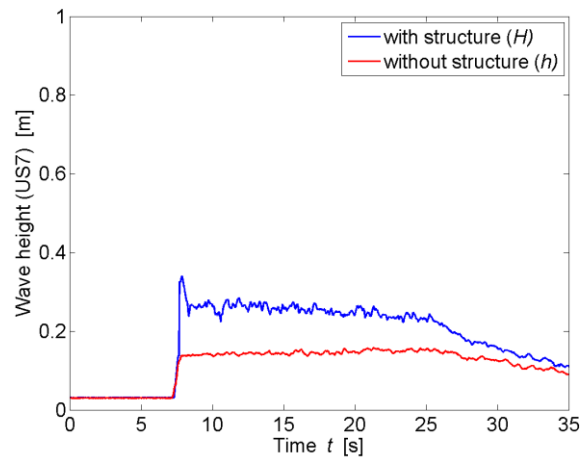
TEST PARAMETERS

Name	B0_H_WW3_1P_2		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.994	[m/s]
Maximum wave height	h_{max}	0.159	[m]
Maximum run-up height	H_{max}	0.340	[m]

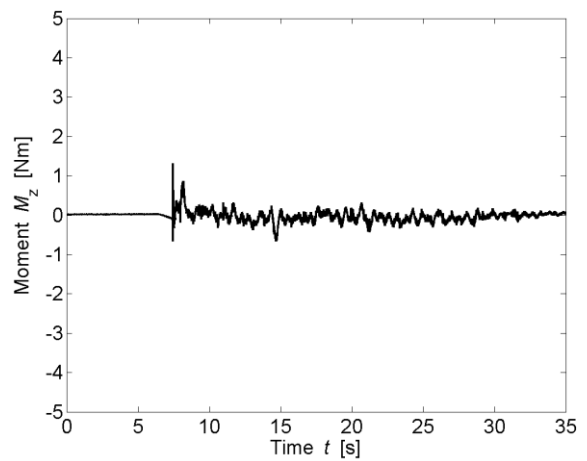
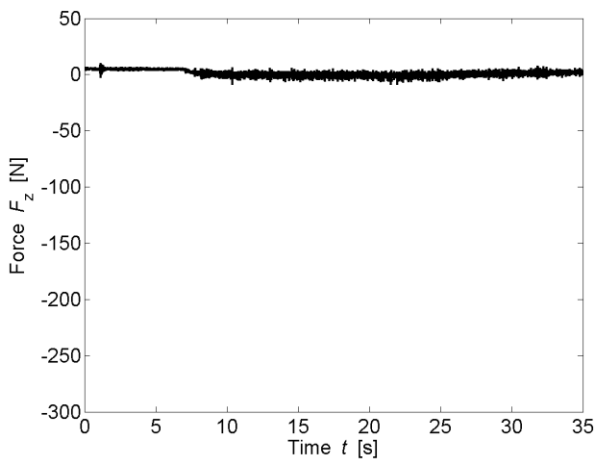
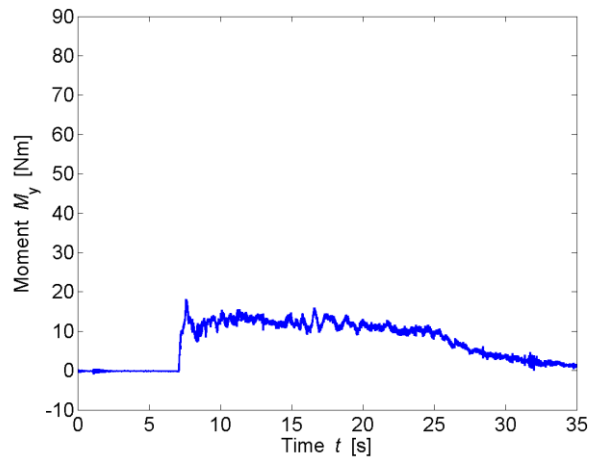
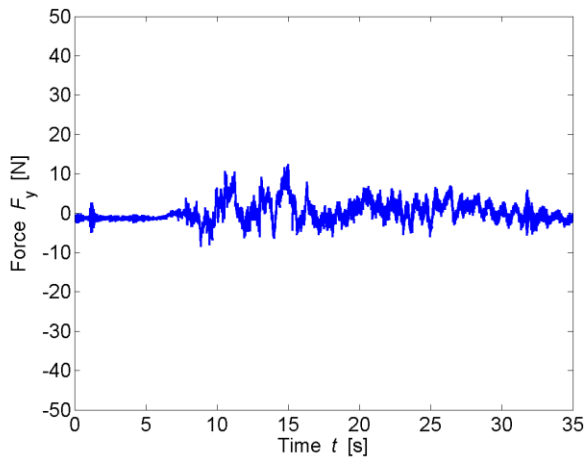
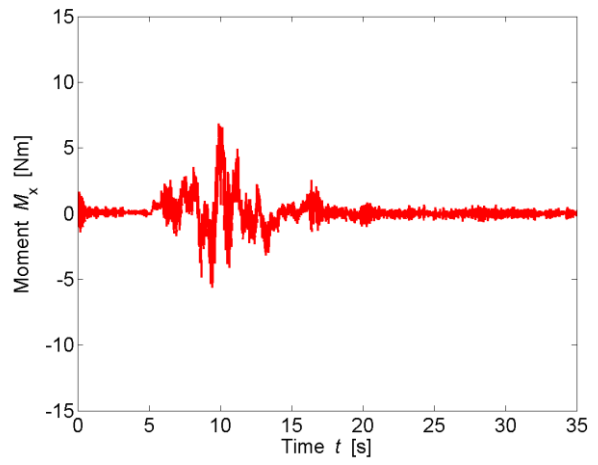
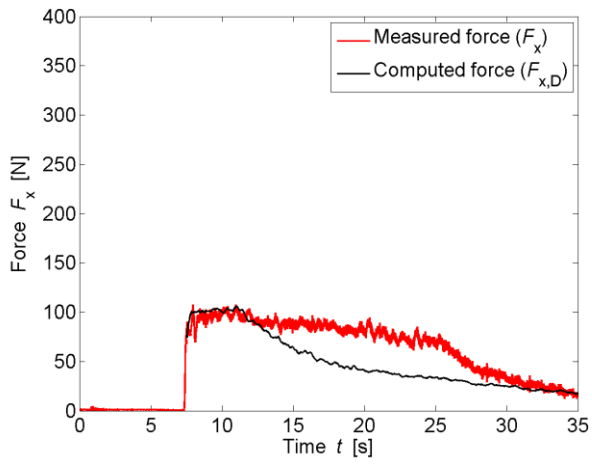


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-0.985	107.794	[N]
F_y	-9.975	14.221	[N]
F_z	-6.442	8.563	[N]
M_x	-4.106	4.457	[Nm]
M_y	-1.061	18.644	[Nm]
M_z	-0.838	0.547	[Nm]
Predicted Force	$F_{x,D,max}$	105.981	[N]
Initial time	t_0	7.357	[s]
Time to peak	τ_{max}	0.607	[s]
Total impulse	I_{tot}	1650.008	[Ns]
Peak Impulse	I_{peak}	44.862	[Ns]
Relative impulse	I^*	0.027	[-]
Wave height at $F_{x,max}$	h_M	0.864	[-]
Resistance coefficient	C_R	1.943	[-]

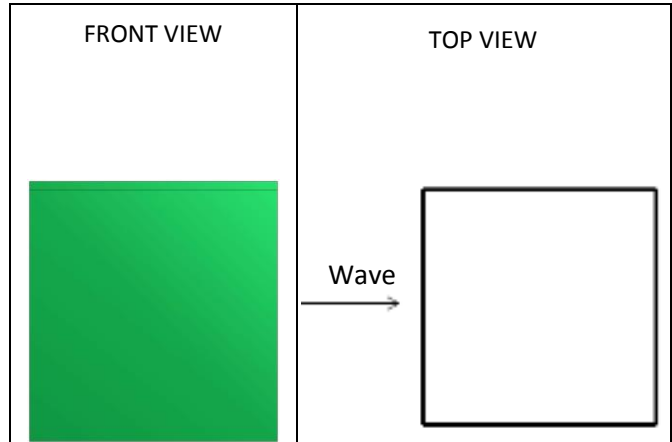


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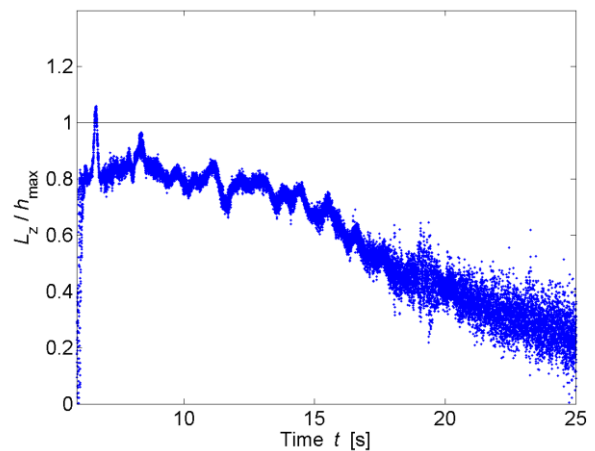
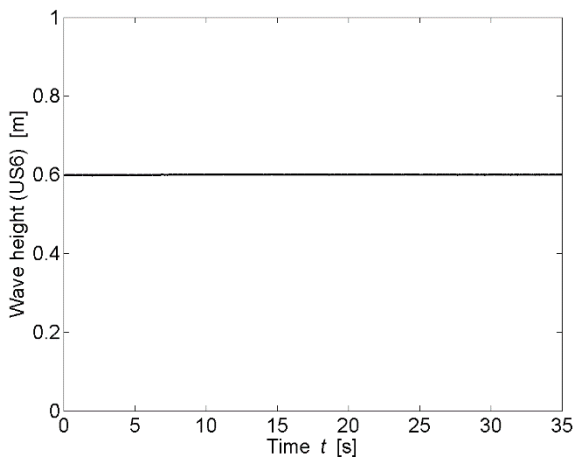
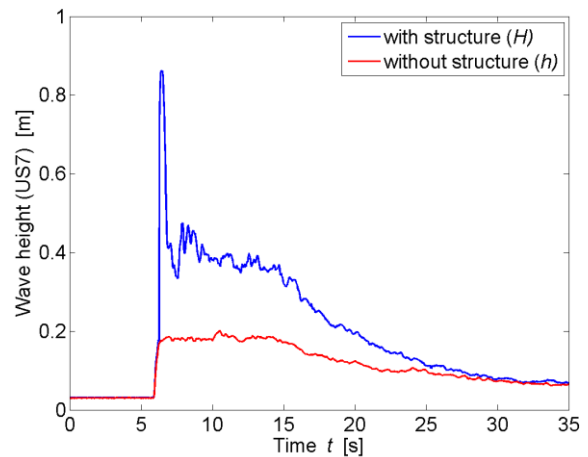
TEST PARAMETERS

Name	B0_H_WW3_2P_3		
Repetitions	3		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.480	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.861	[m]

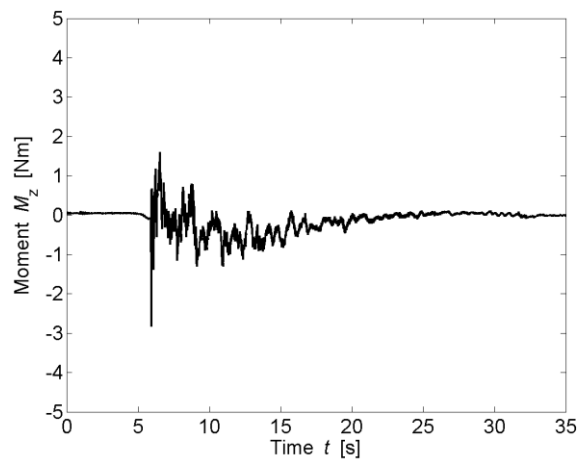
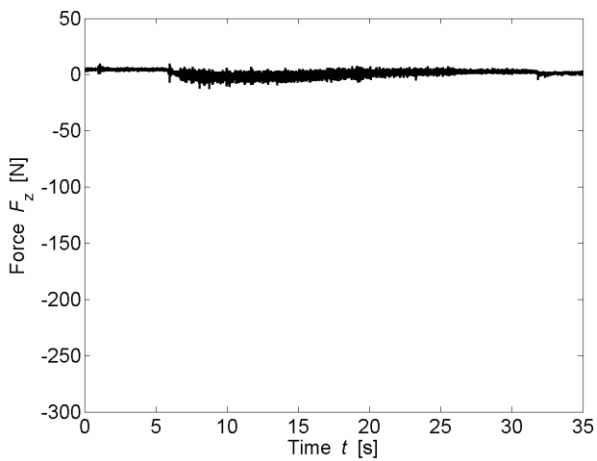
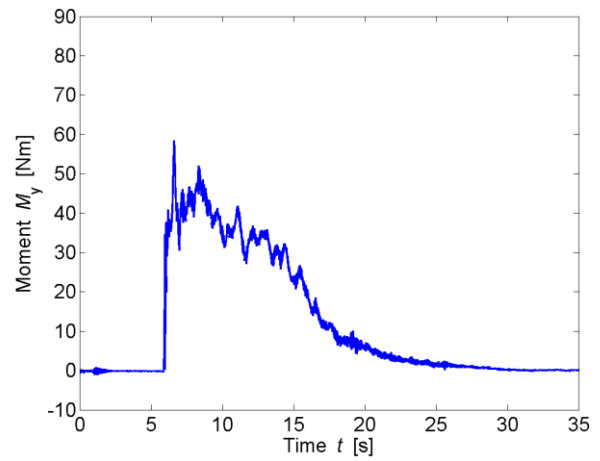
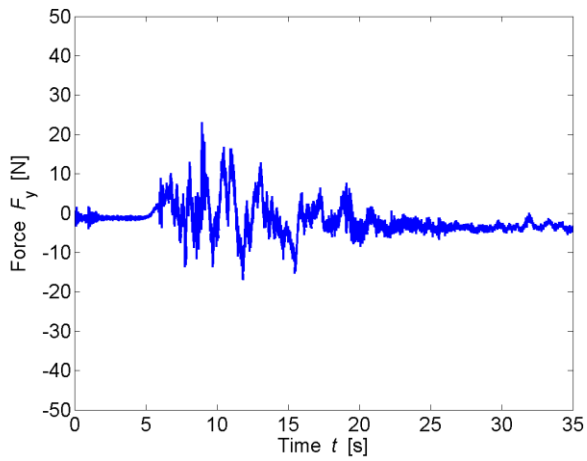
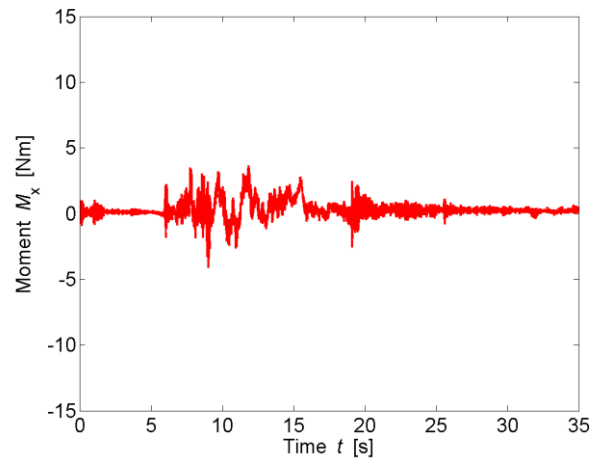
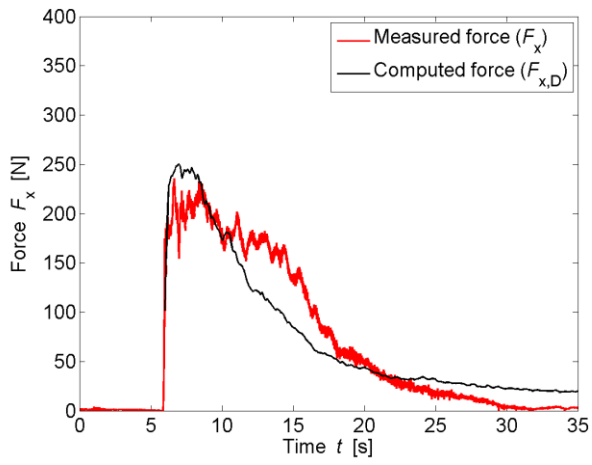


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.922	235.613	[N]
F_y	-16.931	23.136	[N]
F_z	-12.819	9.501	[N]
M_x	-4.179	4.301	[Nm]
M_y	-1.098	58.459	[Nm]
M_z	-2.832	1.596	[Nm]
Predicted Force	$F_{x,D,max}$	250.164	[N]
Initial time	t_0	5.934	[s]
Time to peak	τ_{max}	0.717	[s]
Total impulse	I_{tot}	2281.317	[Ns]
Peak Impulse	I_{peak}	127.599	[Ns]
Relative impulse	I^*	0.059	[-]
Wave height at $F_{x,max}$	h_M	0.898	[-]
Resistance coefficient	C_R	1.895	[-]

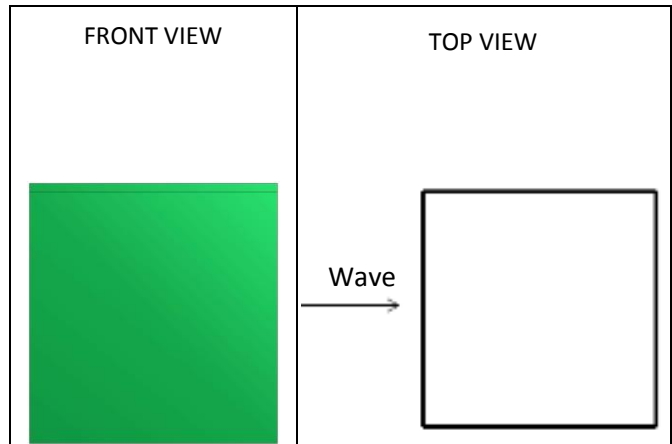


* All parameters are presented and defined at the beginning of the Appendix



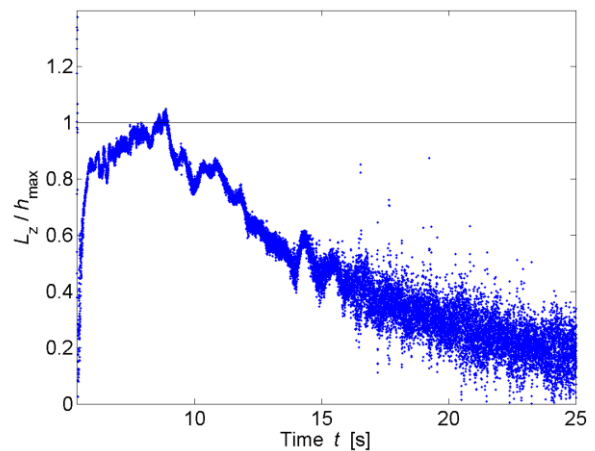
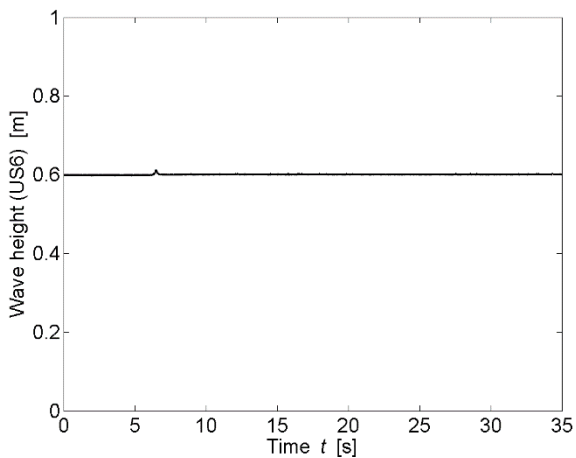
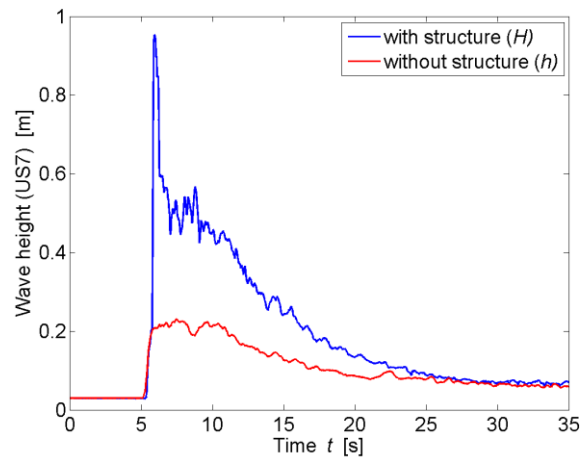
TEST PARAMETERS

Name	B0_H_WW3_3P_2		
Repetitions	4		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW3_3P)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.699	[m/s]
Maximum wave height	h_{max}	0.231	[m]
Maximum run-up height	H_{max}	0.956	[m]

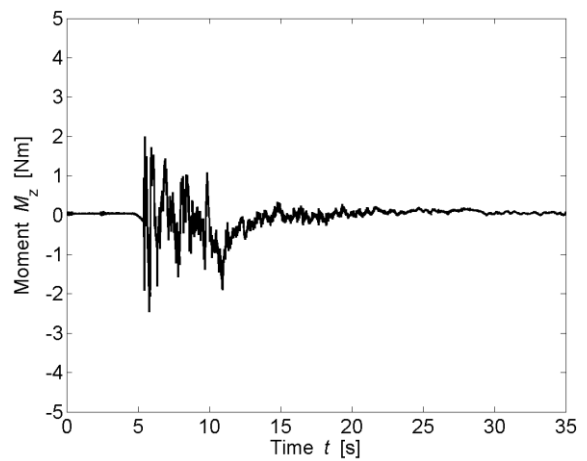
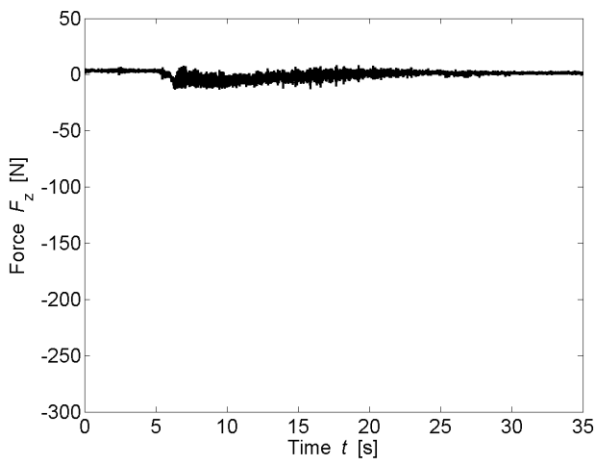
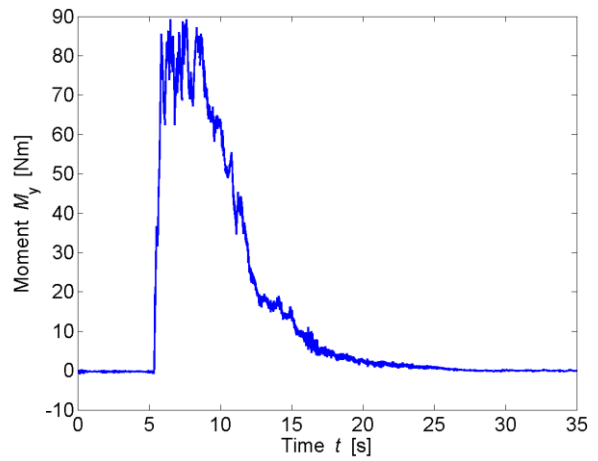
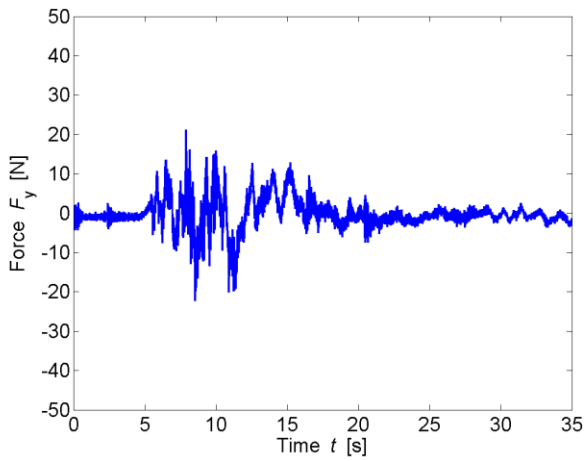
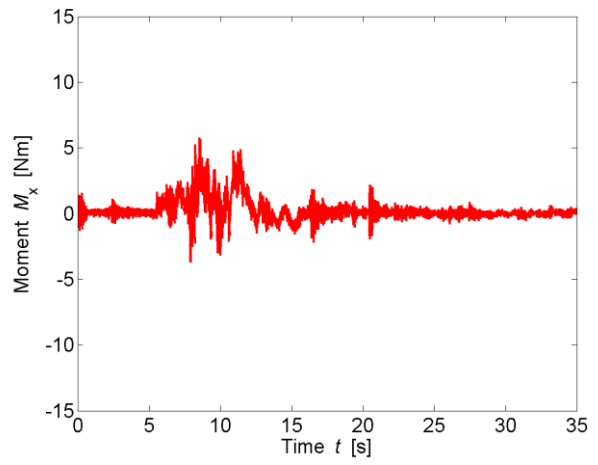
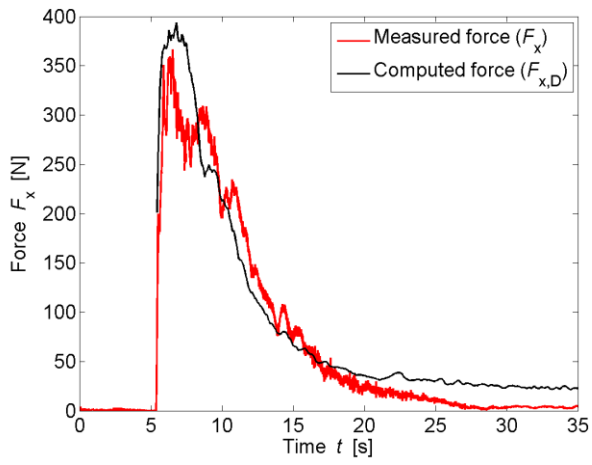


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.718	366.286	[N]
F_y	-22.310	21.250	[N]
F_z	-13.339	8.402	[N]
M_x	-3.691	5.789	[Nm]
M_y	-1.407	80.360	[Nm]
M_z	-2.458	2.000	[Nm]
Predicted Force	$F_{x,D,max}$	393.639	[N]
Initial time	t_0	5.397	[s]
Time to peak	τ_{max}	1.147	[s]
Total impulse	I_{tot}	2353.942	[Ns]
Peak Impulse	I_{peak}	307.938	[Ns]
Relative impulse	I^*	0.138	[-]
Wave height at $F_{x,max}$	h_M	0.930	[-]
Resistance coefficient	C_R	1.896	[-]

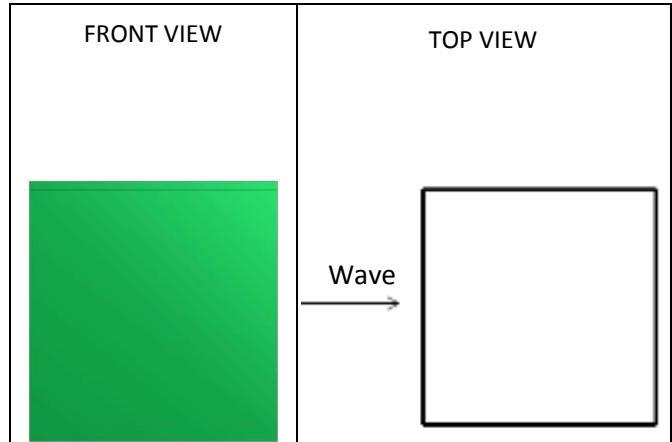


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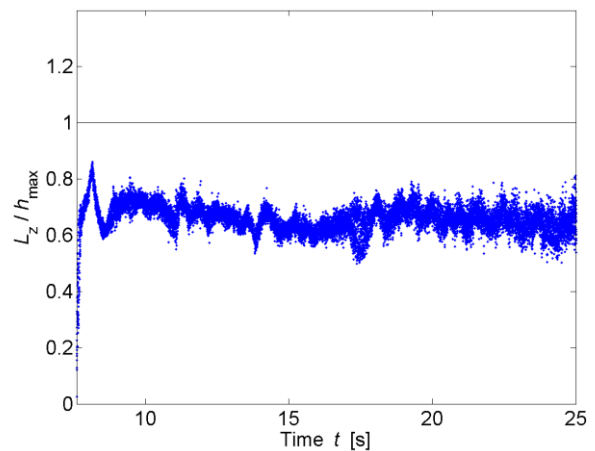
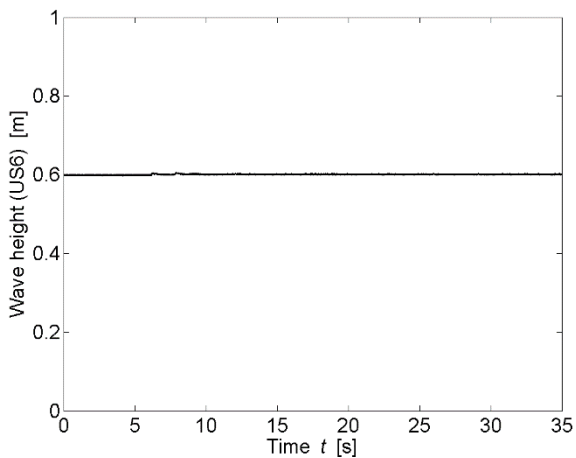
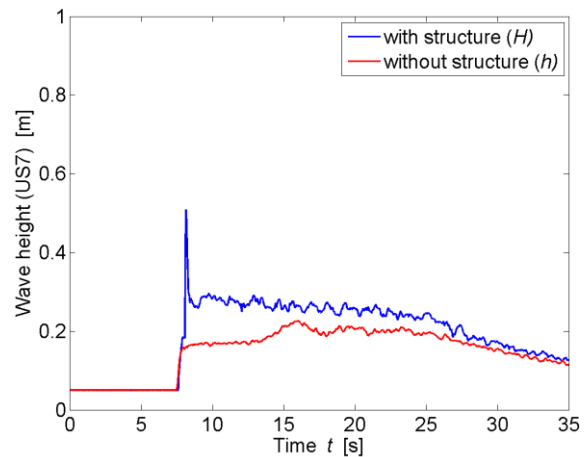
TEST PARAMETERS

Name	B0_H_WW5_1P_2		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.917	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.508	[m]

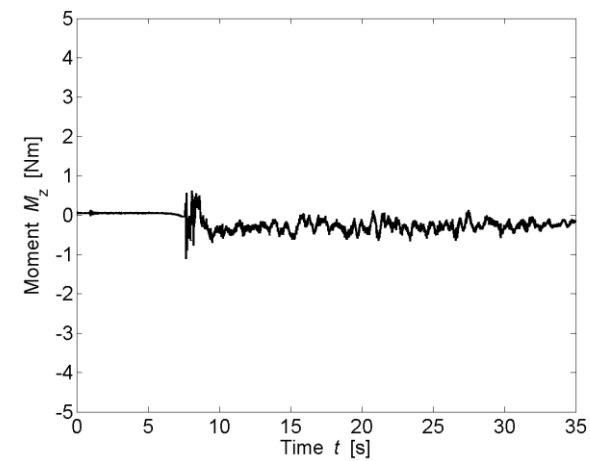
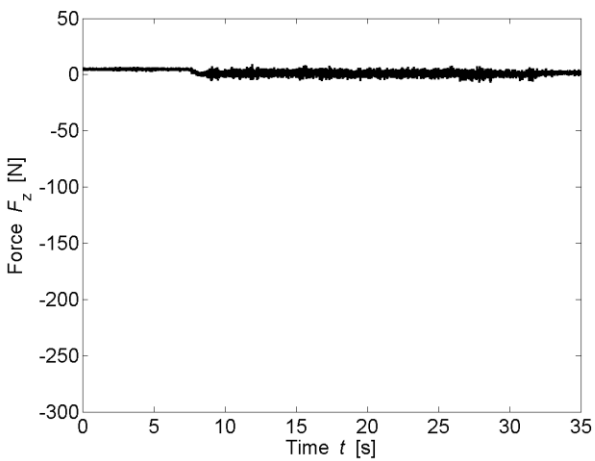
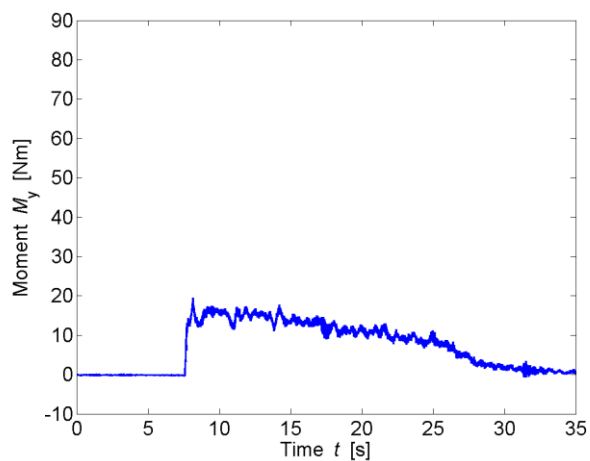
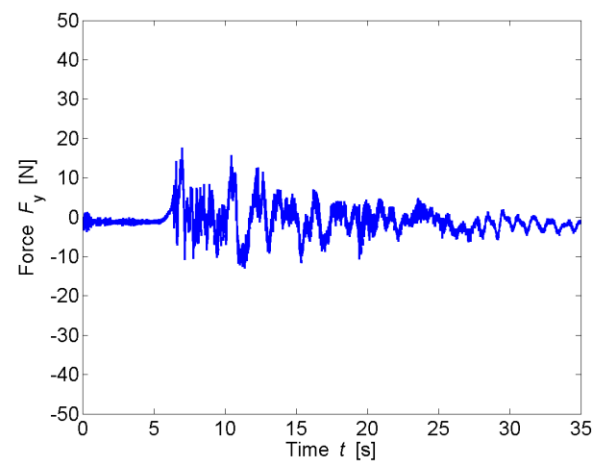
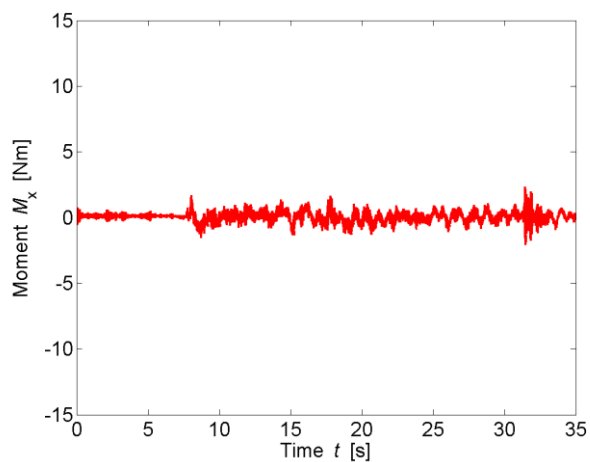
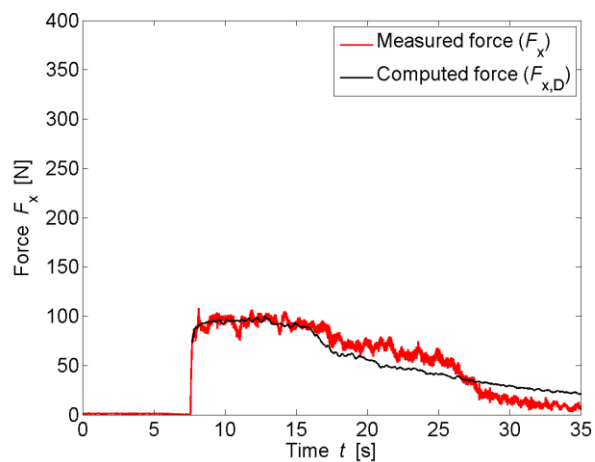


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.373	108.331	[N]
F_y	-7.232	13.242	[N]
F_z	-6.817	9.313	[N]
M_x	-2.417	2.757	[Nm]
M_y	-1.004	19.524	[Nm]
M_z	-0.680	0.827	[Nm]
Predicted Force	$F_{x,D,max}$	99.761	[N]
Initial time	t_0	7.649	[s]
Time to peak	τ_{max}	0.494	[s]
Total impulse	I_{tot}	1530.031	[Ns]
Peak Impulse	I_{peak}	39.754	[Ns]
Relative impulse	I^*	0.026	[-]
Wave height at $F_{x,max}$	h_M	0.700	[-]
Resistance coefficient	C_R	1.946	[-]

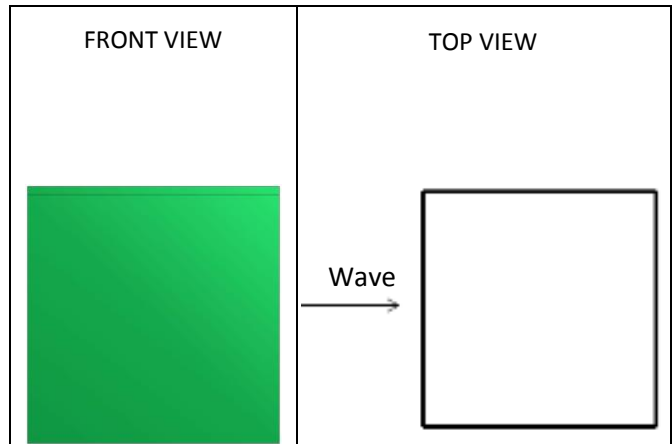


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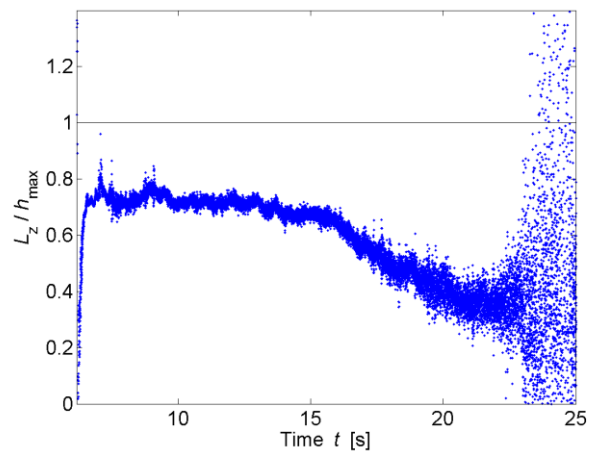
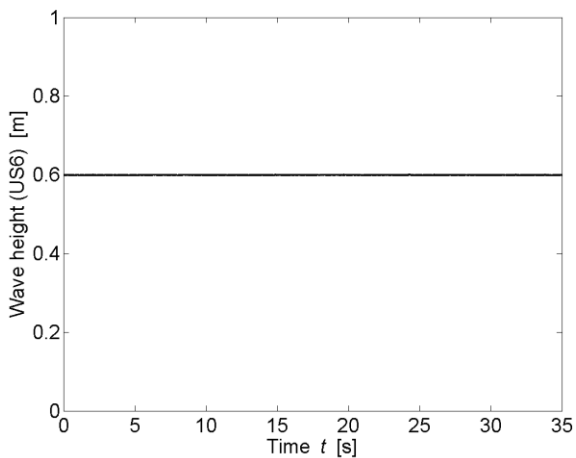
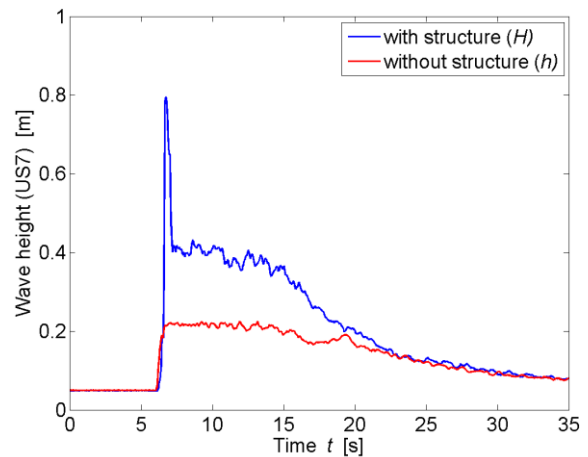
TEST PARAMETERS

Name	B0_H_WW5_2P_2		
Repetitions	3		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.441	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.784	[m]

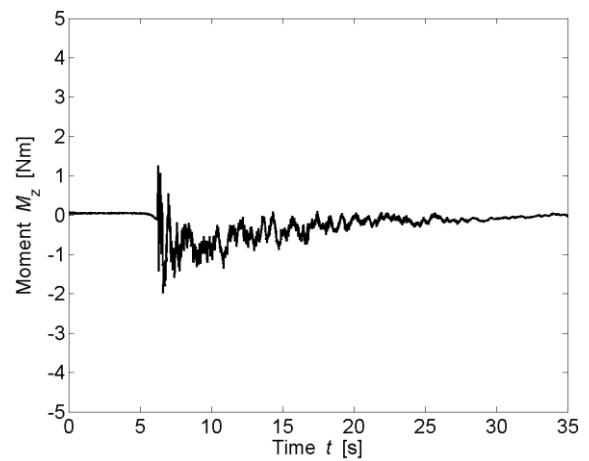
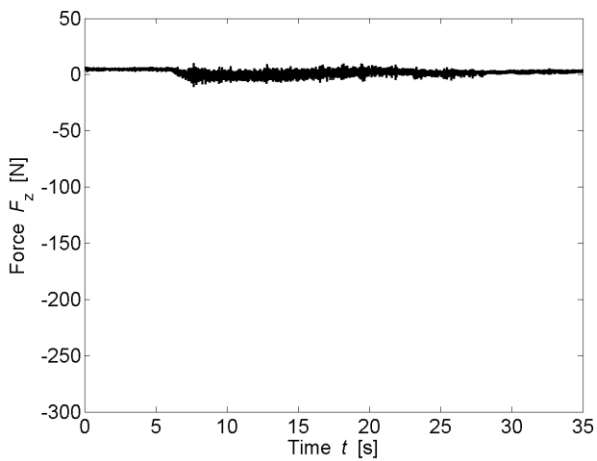
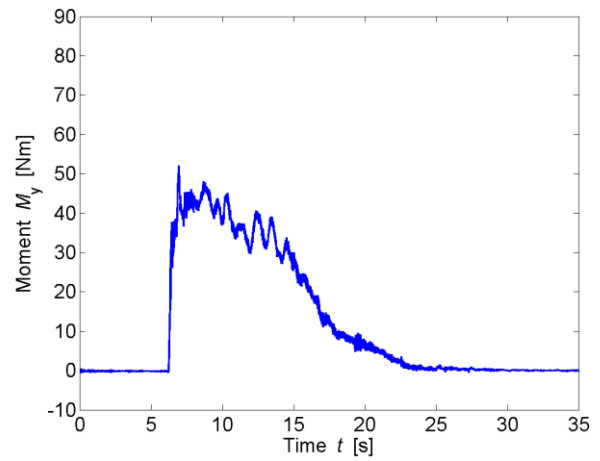
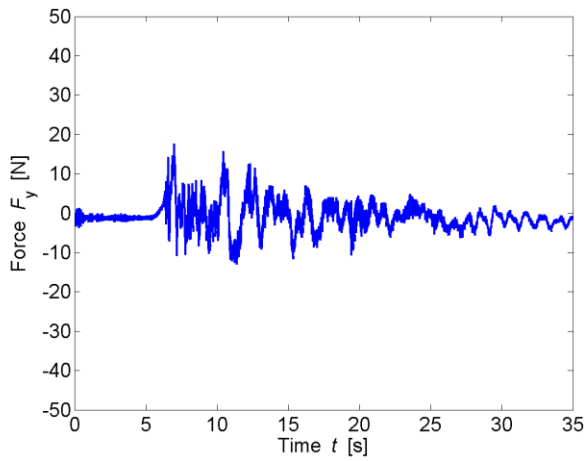
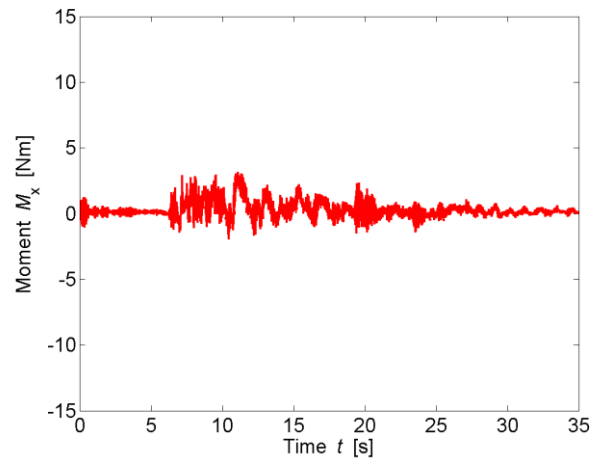
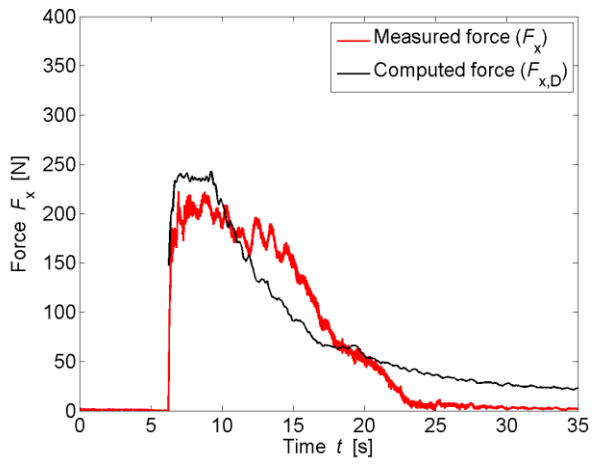


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.082	222.412	[N]
F_y	-12.963	17.601	[N]
F_z	-10.569	10.251	[N]
M_x	-3.423	3.821	[Nm]
M_y	-0.862	52.086	[Nm]
M_z	-1.977	1.260	[Nm]
Predicted Force	$F_{x,D,max}$	242.846	[N]
Initial time	t_0	6.244	[s]
Time to peak	τ_{max}	0.709	[s]
Total impulse	I_{tot}	2192.059	[Ns]
Peak Impulse	I_{peak}	110.794	[Ns]
Relative impulse	I^*	0.051	[-]
Wave height at $F_{x,max}$	h_M	0.974	[-]
Resistance coefficient	C_R	1.919	[-]

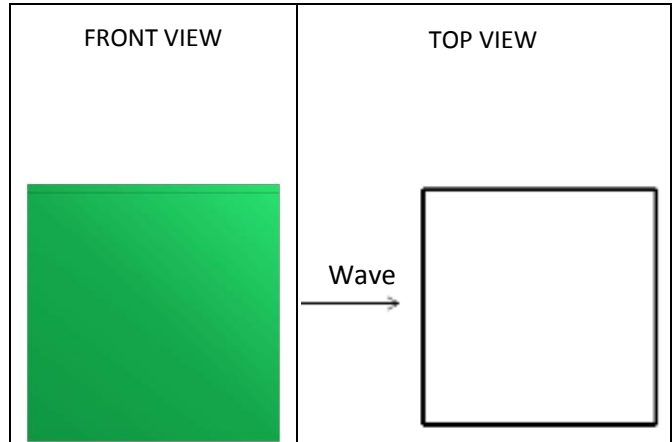


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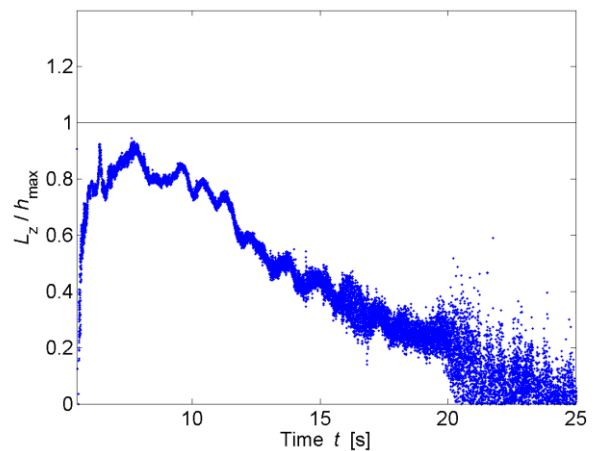
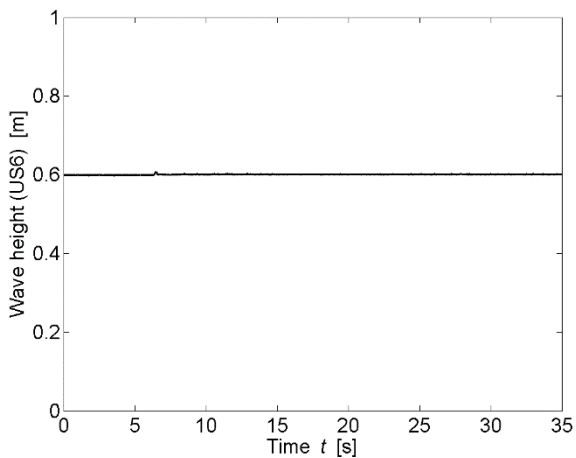
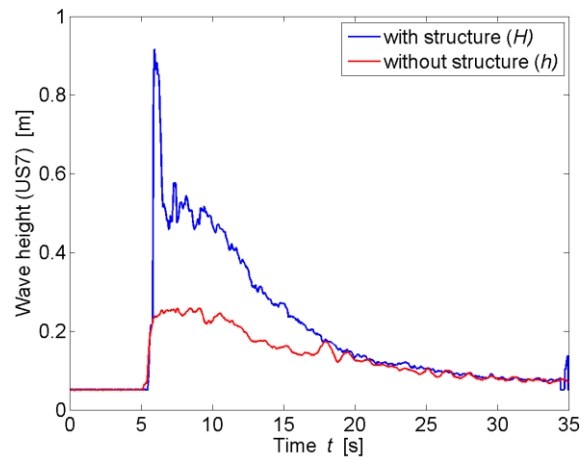
TEST PARAMETERS

Name	B0_H_WW5_3P_3		
Repetitions	4		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.6	[m]
Wave type	Bore (WW5_3P)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.801	[m/s]
Maximum wave height	h_{max}	0.259	[m]
Maximum run-up height	H_{max}	0.914	[m]

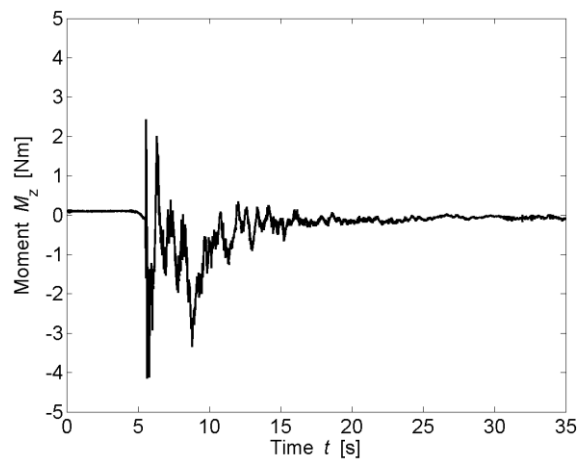
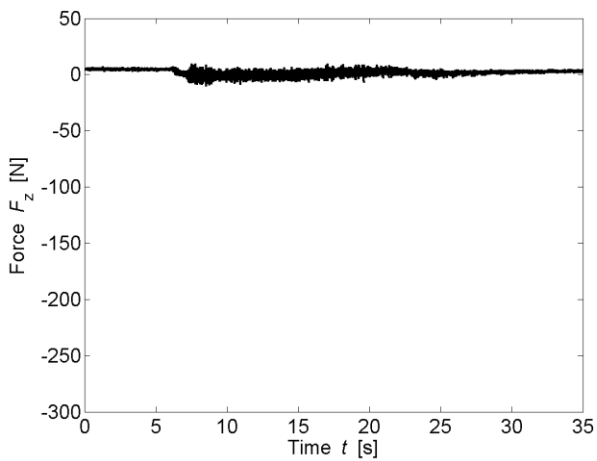
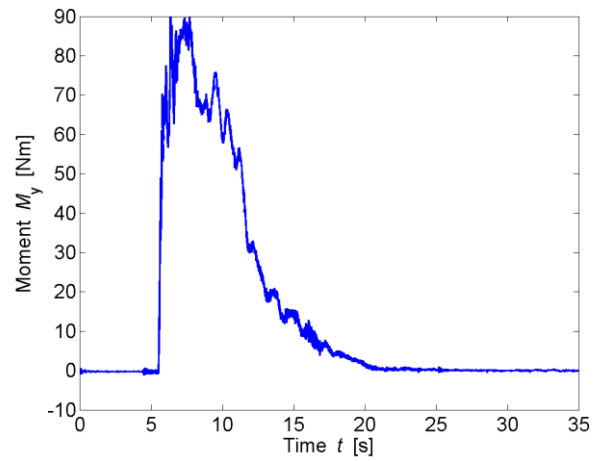
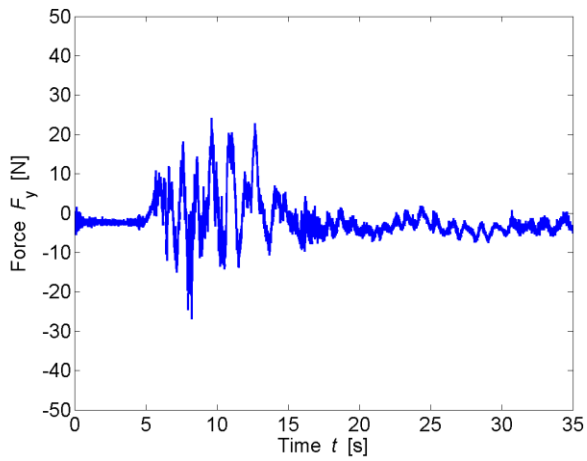
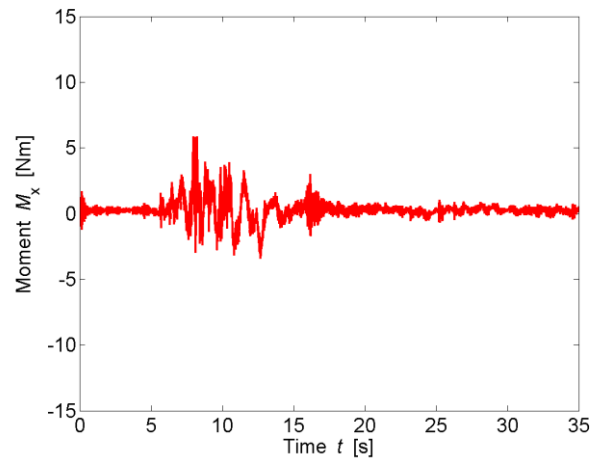
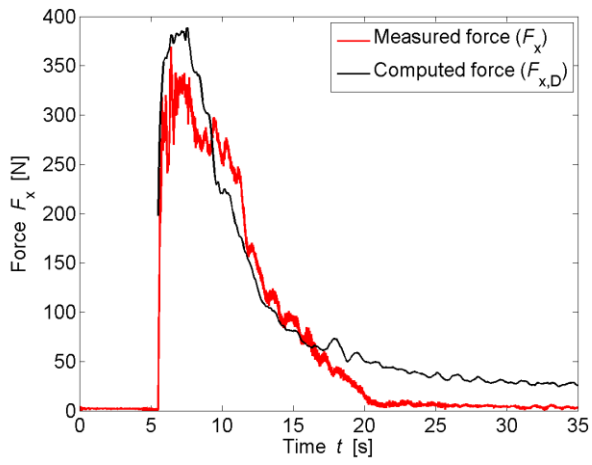


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.777	369.053	[N]
F_y	-26.906	24.133	[N]
F_z	-9.508	16.001	[N]
M_x	-3.404	5.859	[Nm]
M_y	-1.253	99.563	[Nm]
M_z	-4.151	2.433	[Nm]
Predicted Force	$F_{x,D,max}$	388.482	[N]
Initial time	t_0	5.523	[s]
Time to peak	τ_{max}	0.889	[s]
Total impulse	I_{tot}	2416.431	[Ns]
Peak Impulse	I_{peak}	219.029	[Ns]
Relative impulse	I^*	0.094	[-]
Wave height at $F_{x,max}$	h_M	0.970	[-]
Resistance coefficient	C_R	2.034	[-]

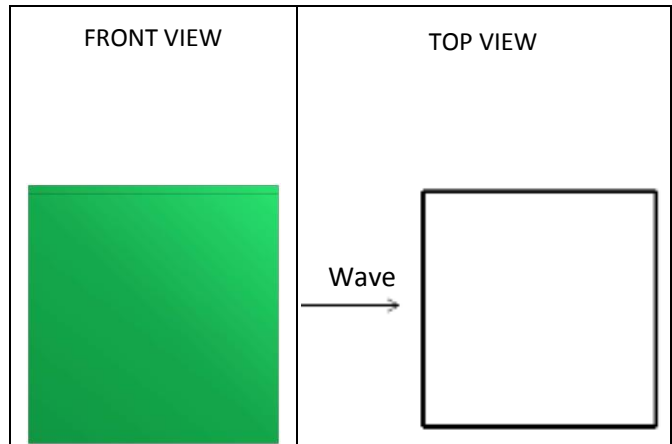


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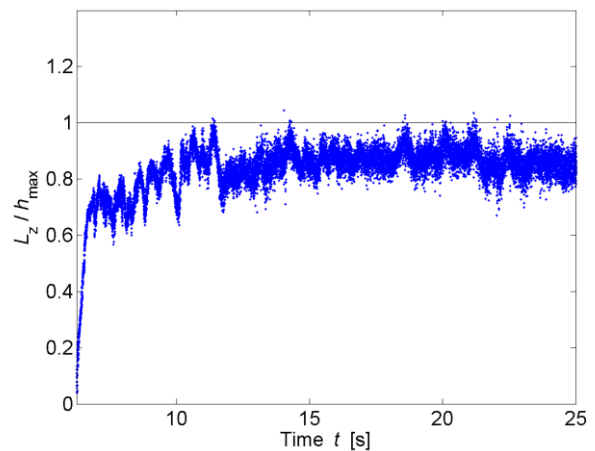
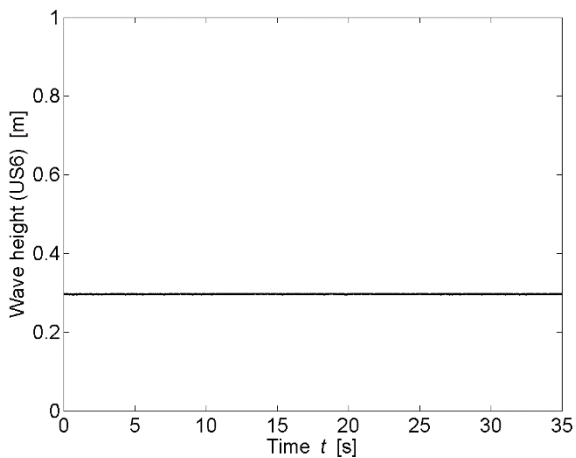
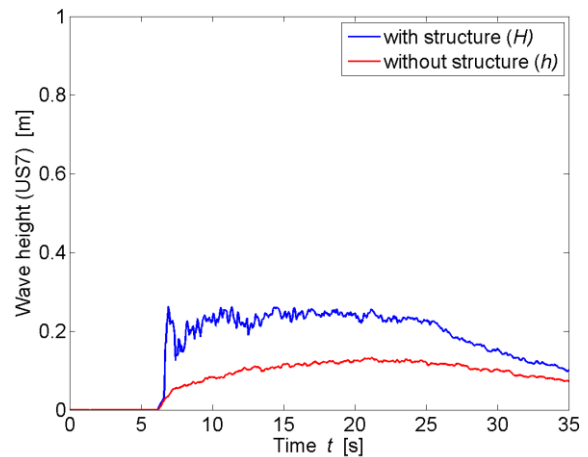
TEST PARAMETERS

Name	B0_0_WD1_1		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.4	[m]
Initial still water depth	h_0	0.0	[m]
Front celerity	U	2.310	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.262	[m]

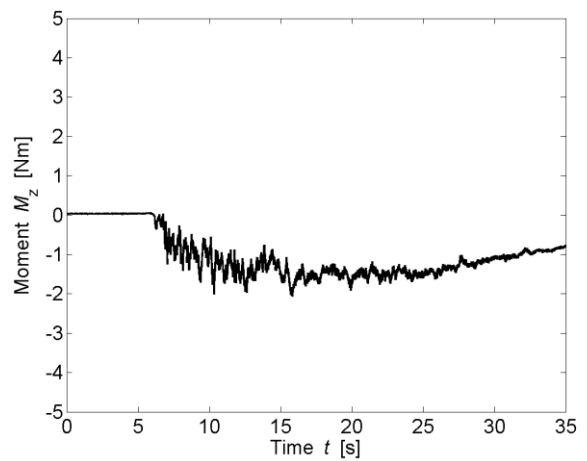
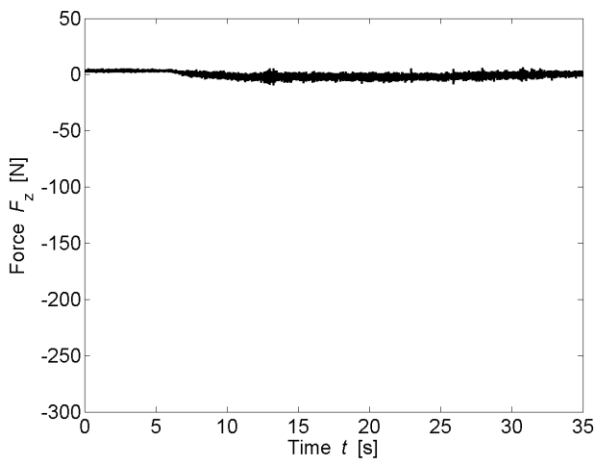
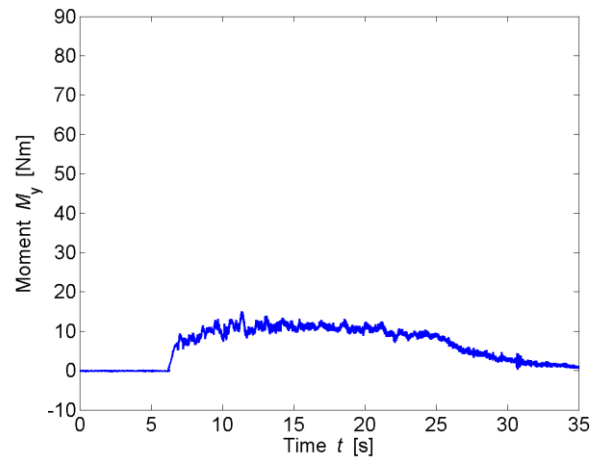
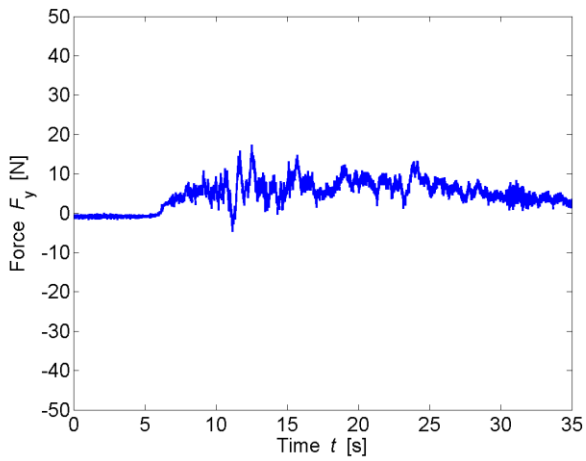
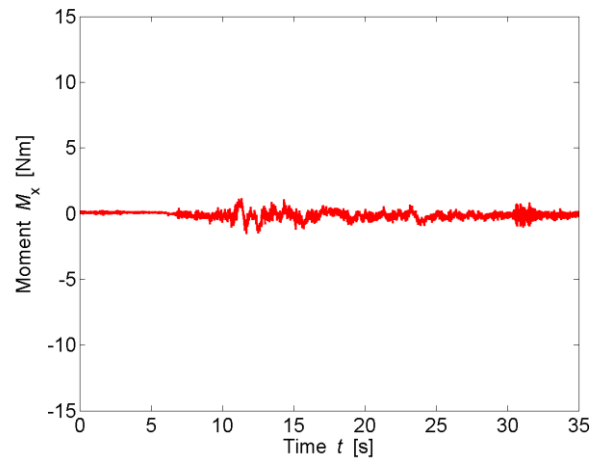
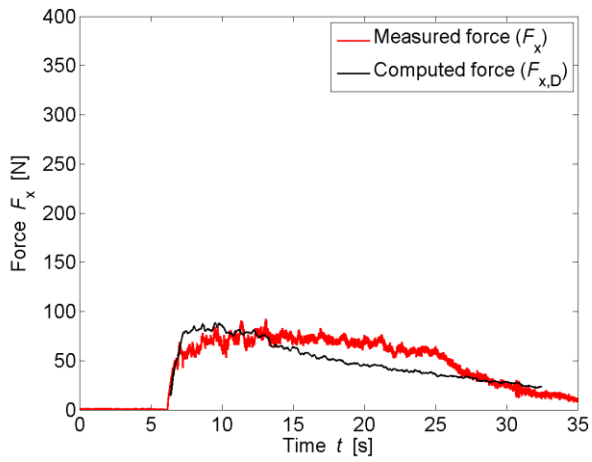


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-0.637	92.120	[N]
F_y	-4.69	17.384	[N]
F_z	-9.403	6.340	[N]
M_x	-1.538	1.145	[Nm]
M_y	-0.465	15.014	[Nm]
M_z	-2.069	0.067	[Nm]
Predicted Force	$F_{x,D,max}$	88.318	[N]
Initial time	t_0	6.286	[s]
Time to peak	τ_{max}	6.793	[s]
Total impulse	I_{tot}	1337.728	[Ns]
Peak Impulse	I_{peak}	449.701	[Ns]
Relative impulse	I^*	0.327	[-]
Wave height at $F_{x,max}$	h_M	0.818	[-]
Resistance coefficient	C_R	2.202	[-]



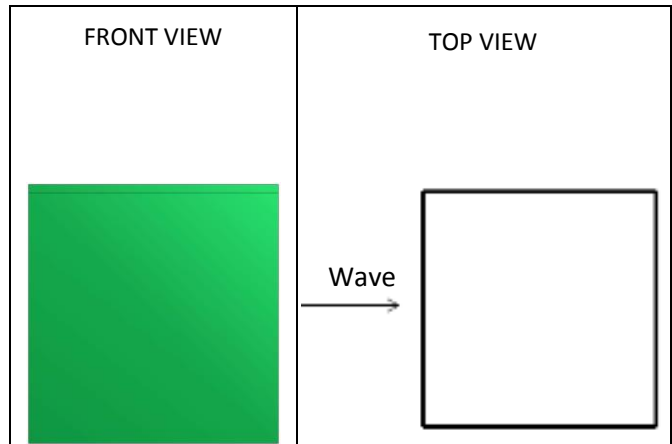
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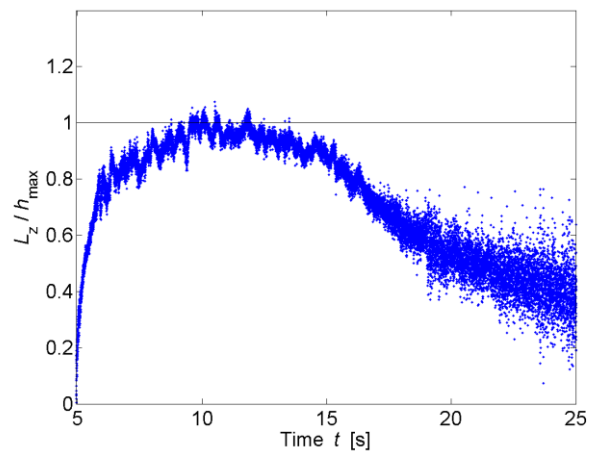
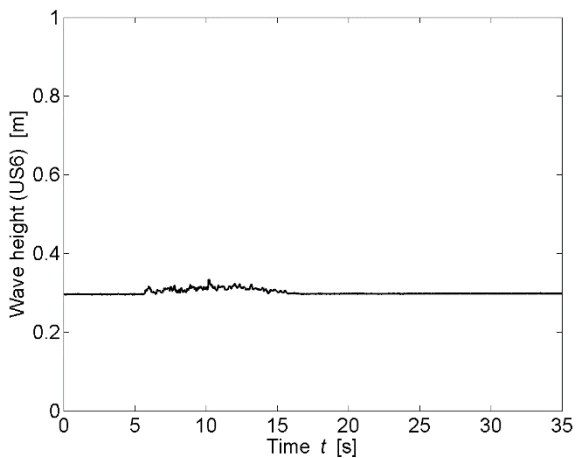
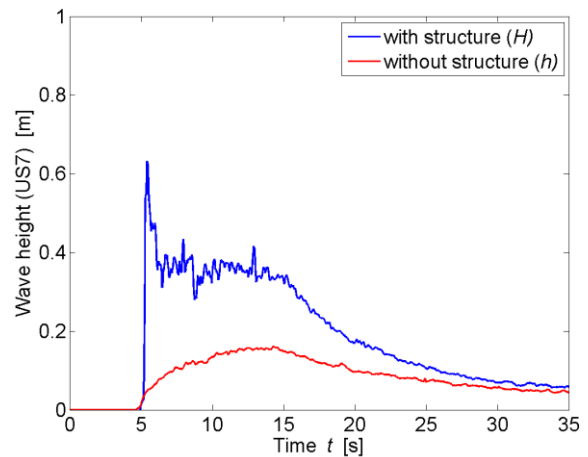
TEST PARAMETERS

Name	B0_0_WD2_2		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.63	[m]
Initial still water depth	h_0	0.00	[m]
Front celerity	U	3.07	[m/s]
Maximum wave height	h_{max}	0.16	[m]
Maximum run-up height	H_{max}	0.63	[m]

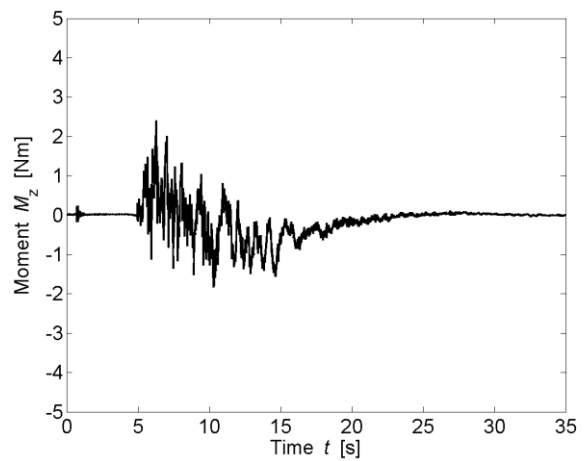
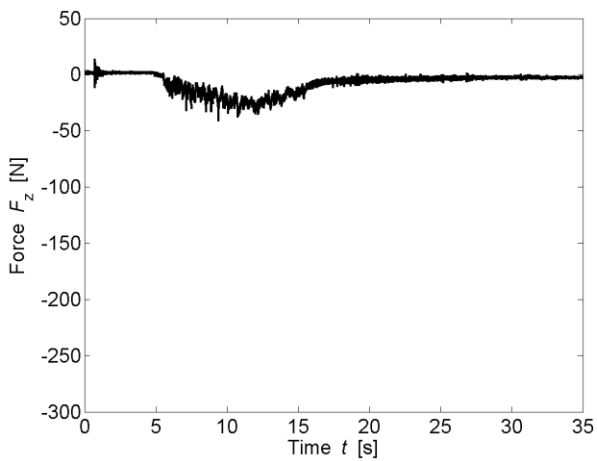
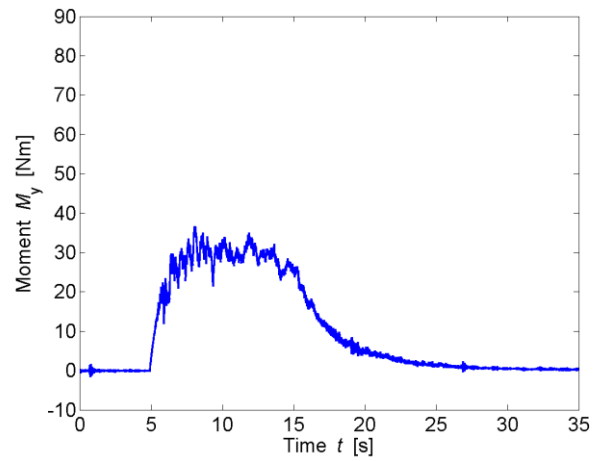
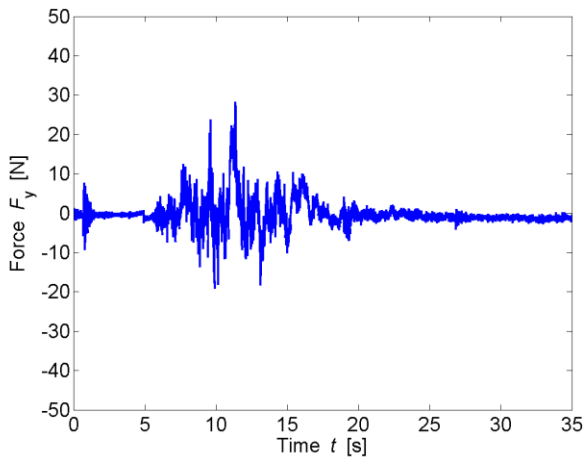
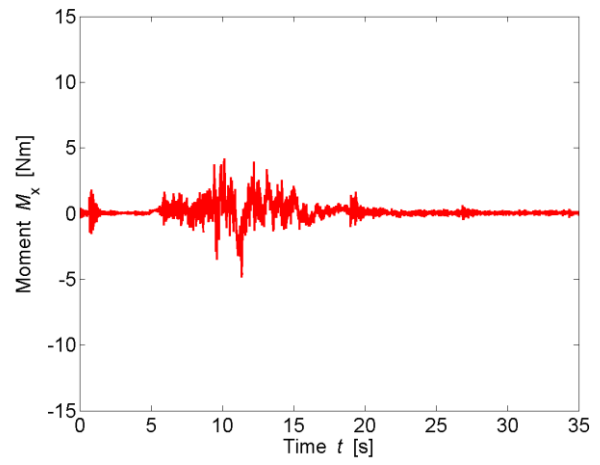
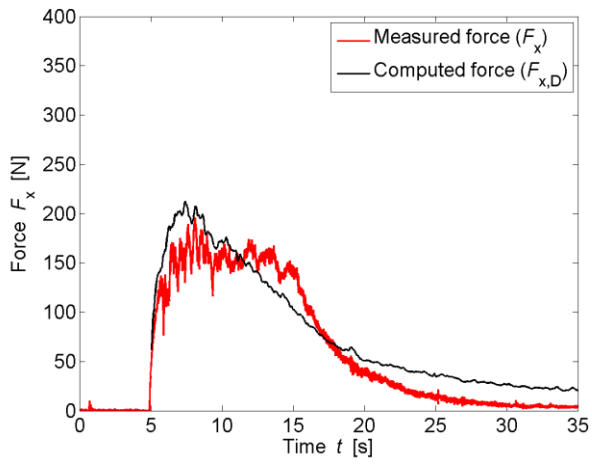


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.690	196.062	[N]
F_y	-19.109	28.294	[N]
F_z	-41.249	2.608	[N]
M_x	-4.832	4.171	[Nm]
M_y	-1.582	36.674	[Nm]
M_z	-1.834	2.404	[Nm]
Predicted Force	$F_{x,D,max}$	212.377	[N]
Initial time	t_0	5.012	[s]
Time to peak	τ_{max}	3.110	[s]
Total impulse	I_{tot}	2031.836	[Ns]
Peak Impulse	I_{peak}	419.846	[Ns]
Relative impulse	I^*	0.218	[-]
Wave height at $F_{x,max}$	h_M	0.730	[-]
Resistance coefficient	C_R	1.833	[-]

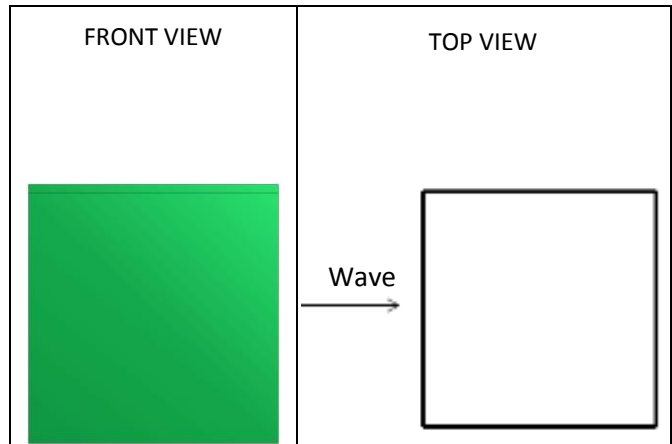


* All parameters are presented and defined at the beginning of the Appendix



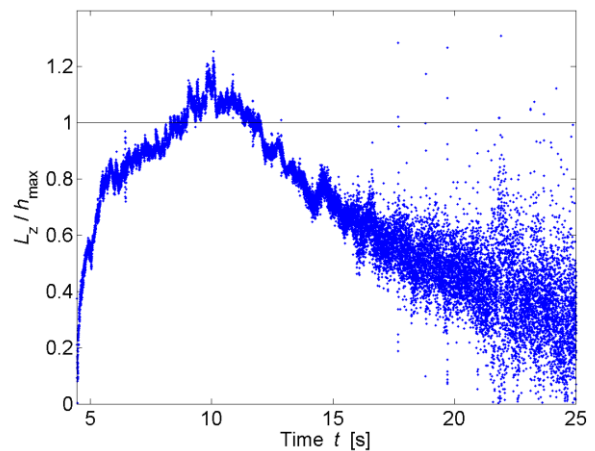
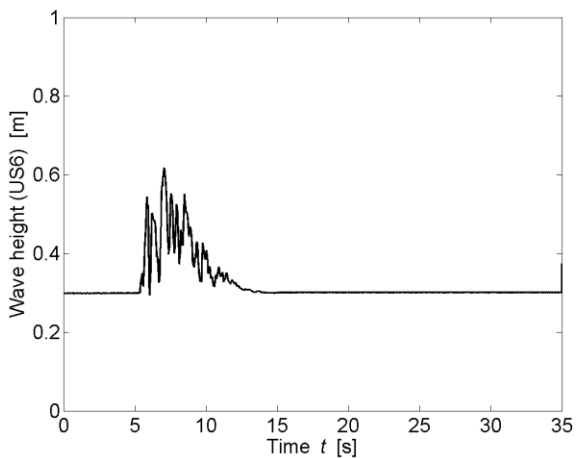
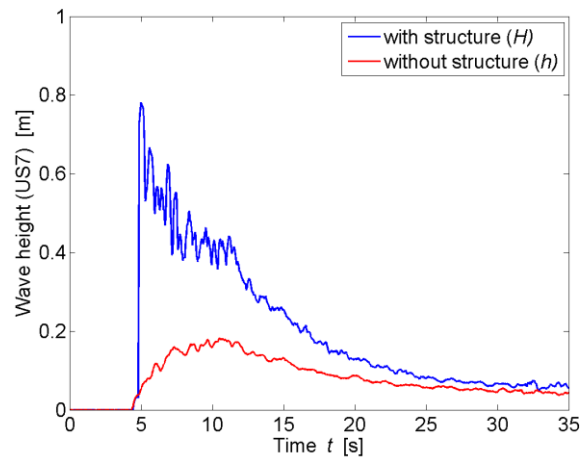
TEST PARAMETERS

Name	B0_0_WD3_1		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.593	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.781	[m]

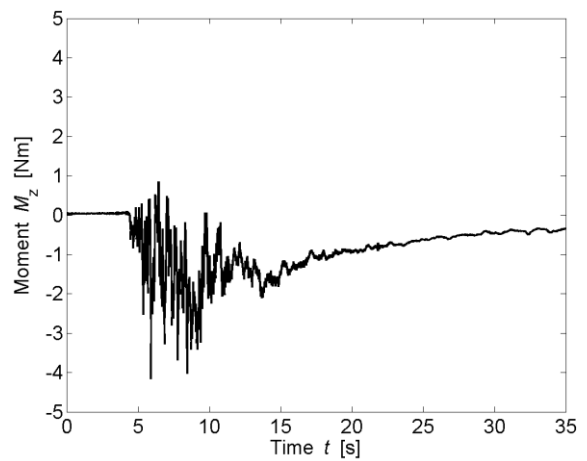
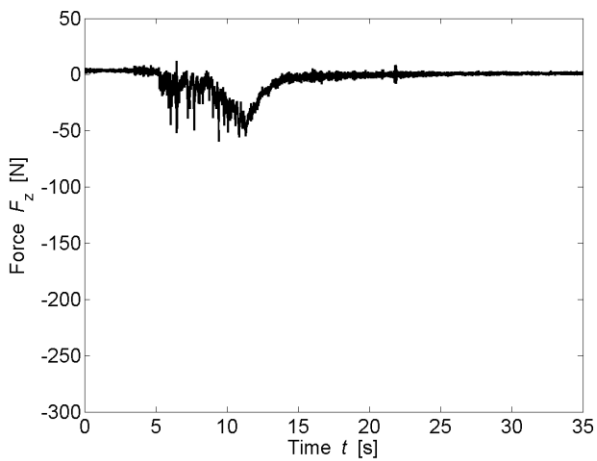
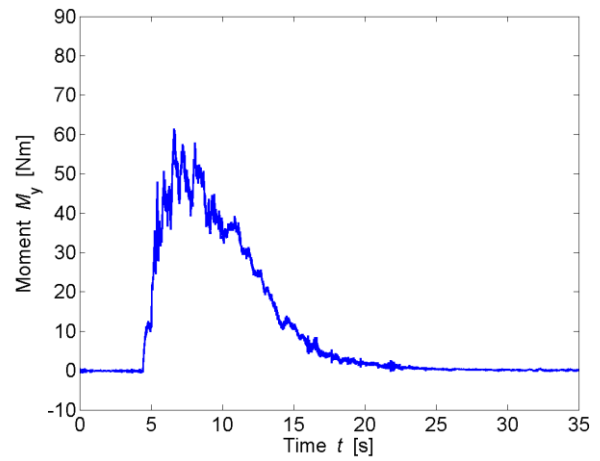
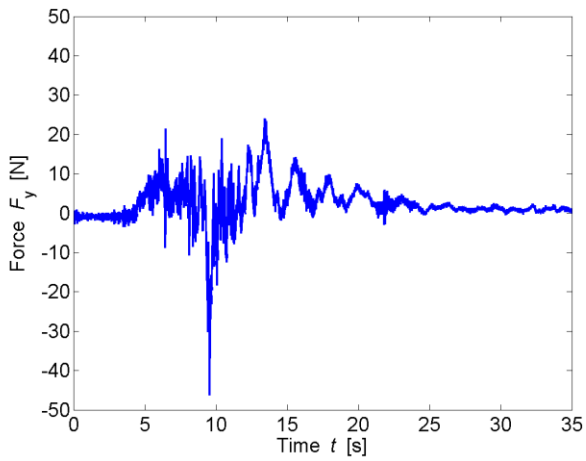
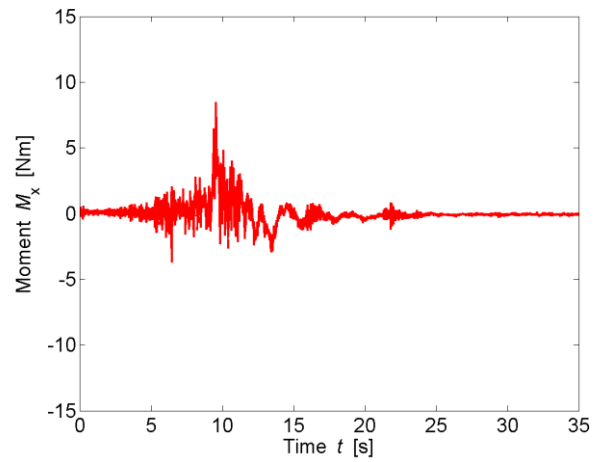
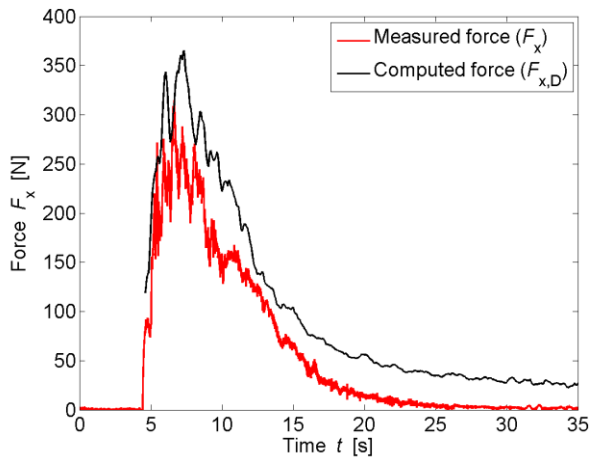


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.944	314.656	[N]
F_y	-46.293	24.040	[N]
F_z	-59.445	11.963	[N]
M_x	-3.696	8.468	[Nm]
M_y	-0.700	61.407	[Nm]
M_z	-4.158	0.851	[Nm]
Predicted Force	$F_{x,D,max}$	365.348	[N]
Initial time	t_0	4.488	[s]
Time to peak	τ_{max}	2.154	[s]
Total impulse	I_{tot}	1902.436	[Ns]
Peak Impulse	I_{peak}	387.466	[Ns]
Relative impulse	I^*	0.212	[-]
Wave height at $F_{x,max}$	h_M	0.643	[-]
Resistance coefficient	C_R	1.956	[-]

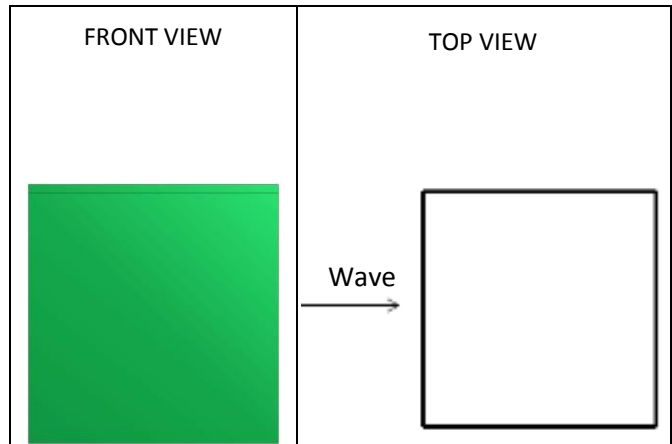


* All parameters are presented and defined at the beginning of the Appendix



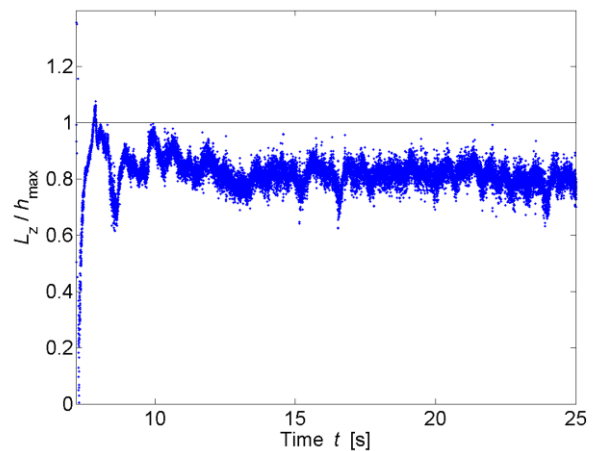
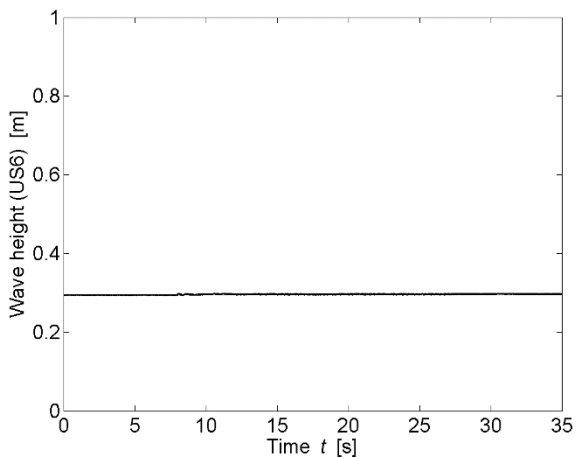
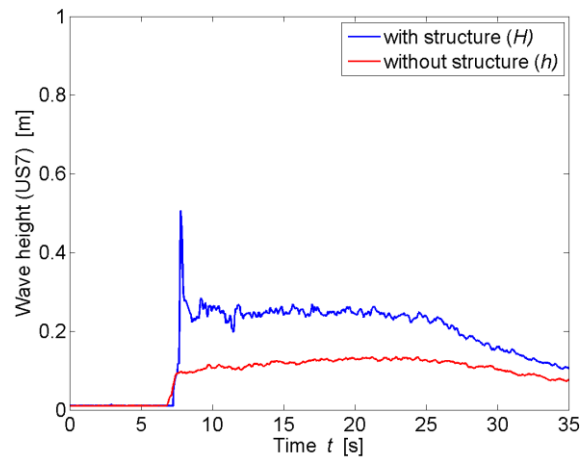
TEST PARAMETERS

Name	B0_0_WW1_1P_3		
Repetitions	4		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.095	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.506	[m]

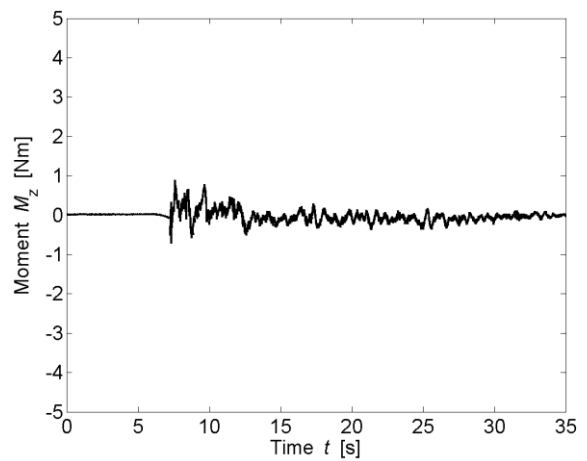
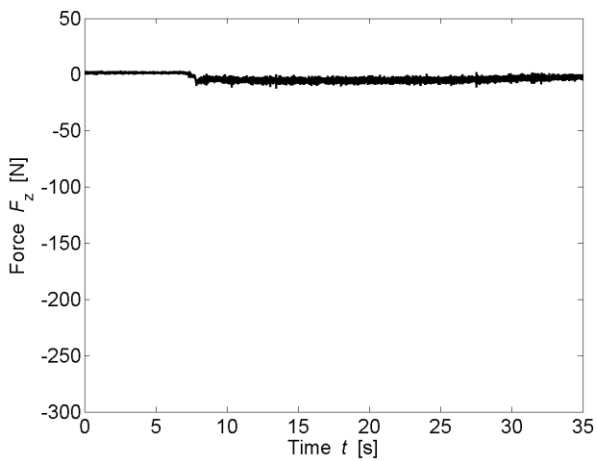
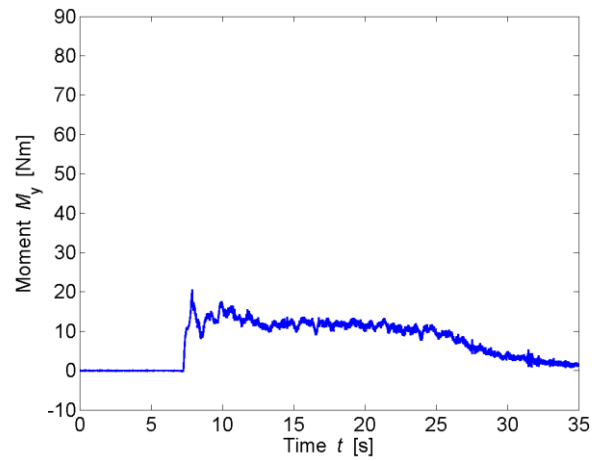
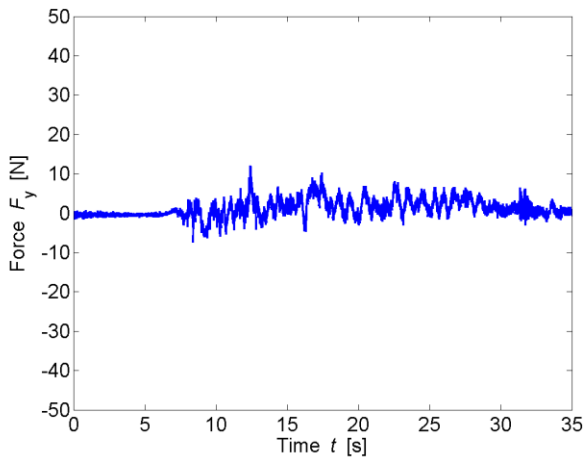
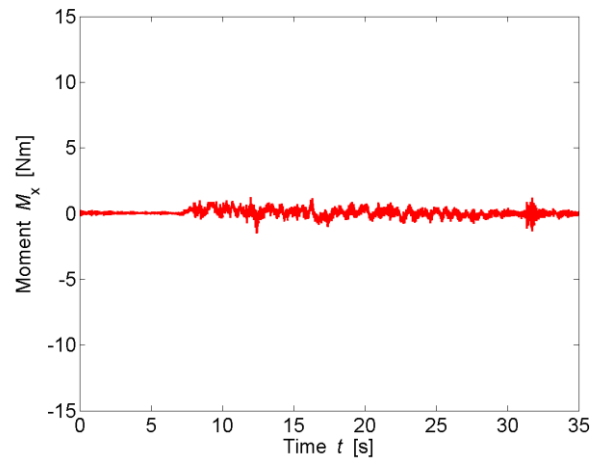
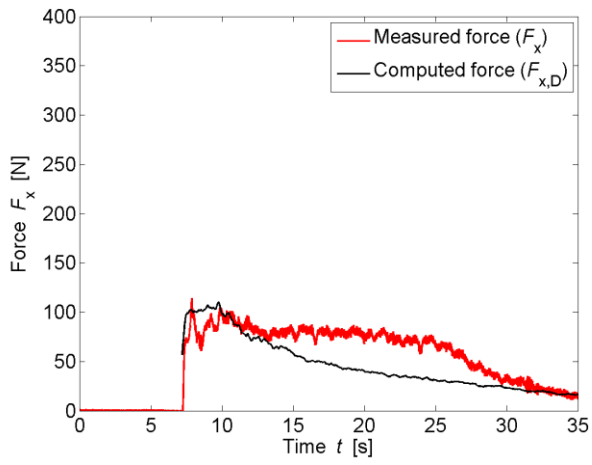


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.520	113.948	[N]
F_y	-7.435	12.020	[N]
F_z	-12.198	2.889	[N]
M_x	-1.475	1.245	[Nm]
M_y	-0.837	20.589	[Nm]
M_z	-0.712	0.891	[Nm]
Predicted Force	$F_{x,D,max}$	109.967	[N]
Initial time	t_0	7.258	[s]
Time to peak	τ_{max}	0.626	[s]
Total impulse	I_{tot}	1552.162	[Ns]
Peak Impulse	I_{peak}	43.581	[Ns]
Relative impulse	I^*	0.027	[-]
Wave height at $F_{x,max}$	h_M	0.706	[-]
Resistance coefficient	C_R	1.941	[-]

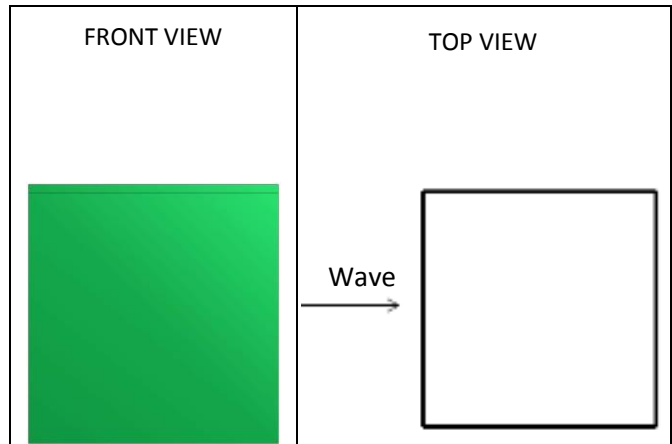


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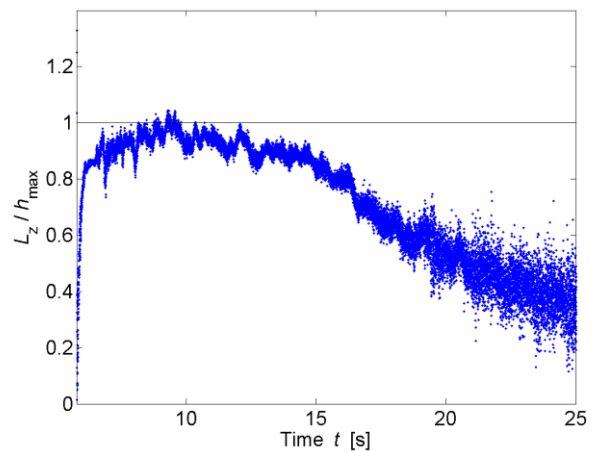
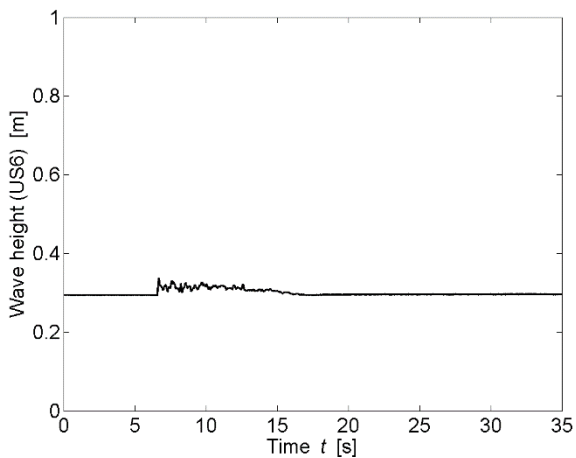
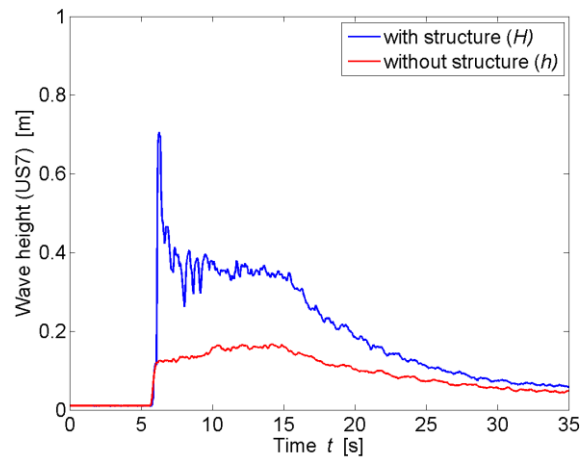
TEST PARAMETERS

Name	B0_0_WW1_2P_2		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.673	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.704	[m]

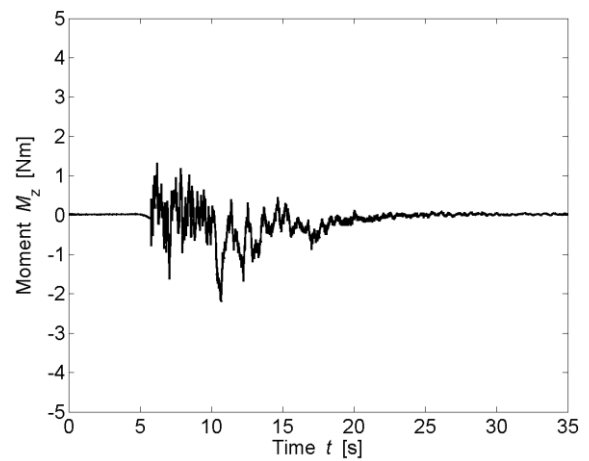
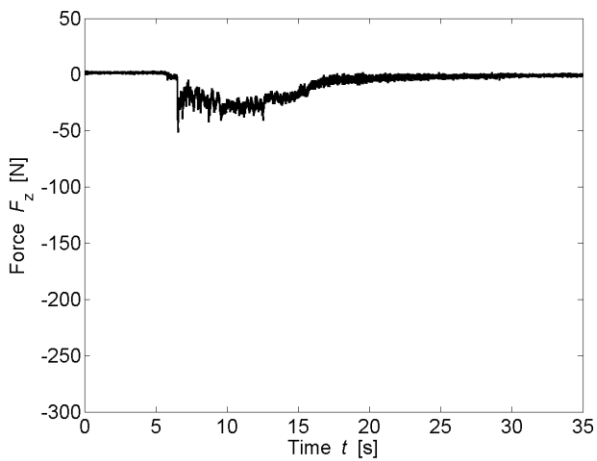
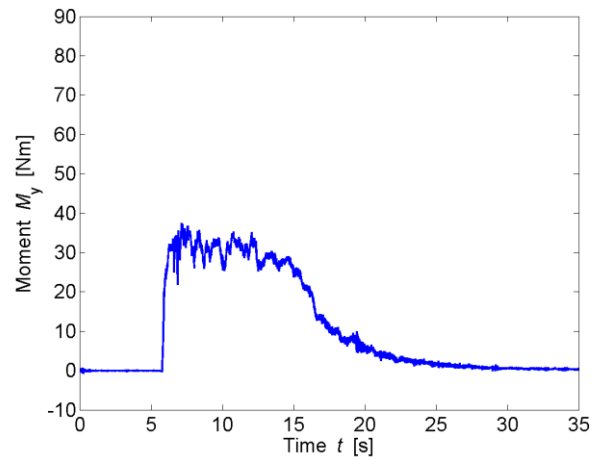
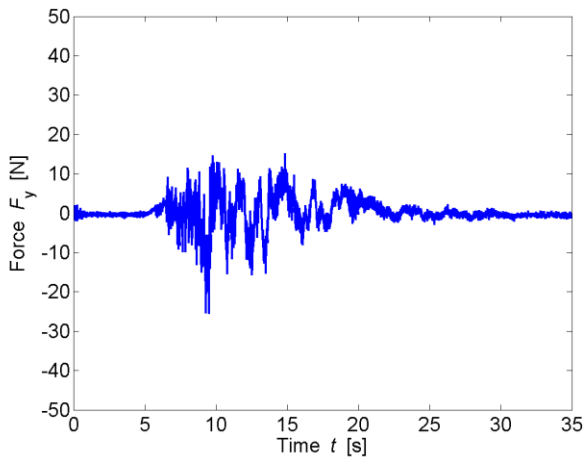
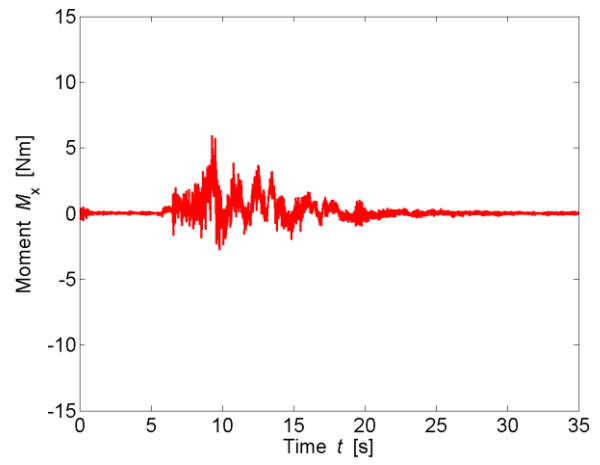
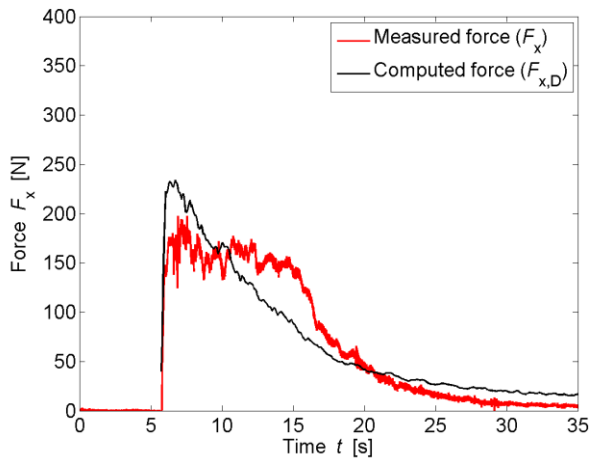


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.520	197.687	[N]
F_y	-25.569	15.250	[N]
F_z	-51.182	3.545	[N]
M_x	-2.760	5.967	[Nm]
M_y	-0.837	37.501	[Nm]
M_z	-2.203	1.322	[Nm]
Predicted Force	$F_{x,D,max}$	232.346	[N]
Initial time	t_0	5.831	[s]
Time to peak	τ_{max}	1.101	[s]
Total impulse	I_{tot}	2052.991	[Ns]
Peak Impulse	I_{peak}	167.550	[Ns]
Relative impulse	I^*	0.086	[-]
Wave height at $F_{x,max}$	h_M	0.740	[-]
Resistance coefficient	C_R	1.631	[-]

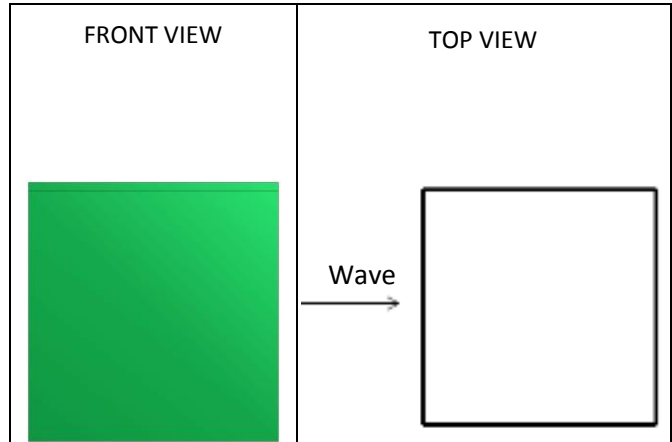


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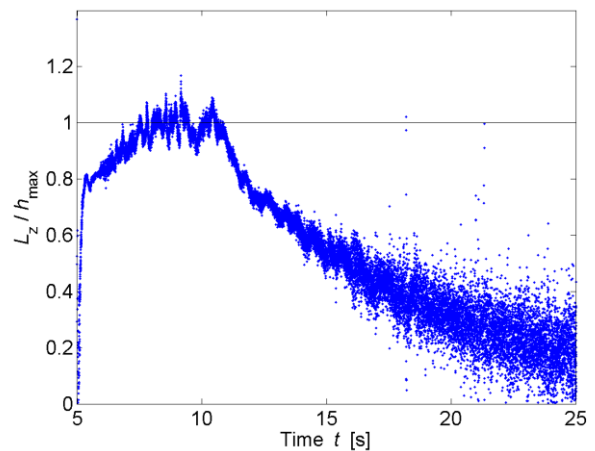
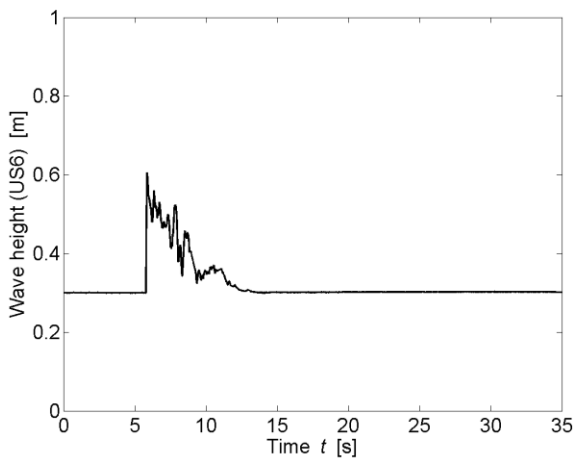
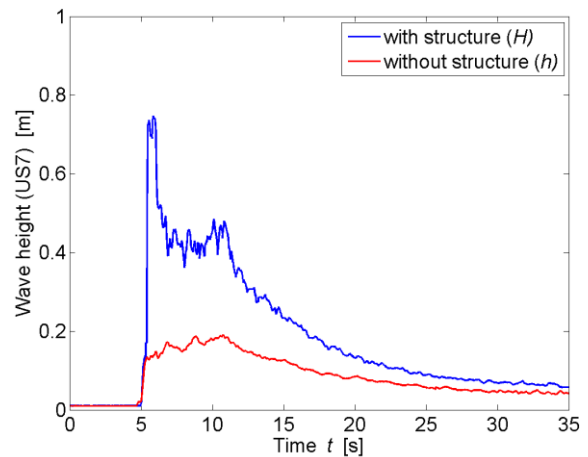
TEST PARAMETERS

Name	B0_0_WW1_3P_4		
Repetitions	5		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_3P)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.922	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.747	[m]

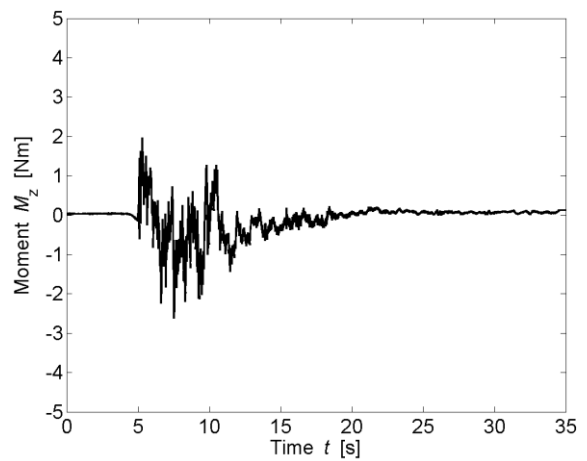
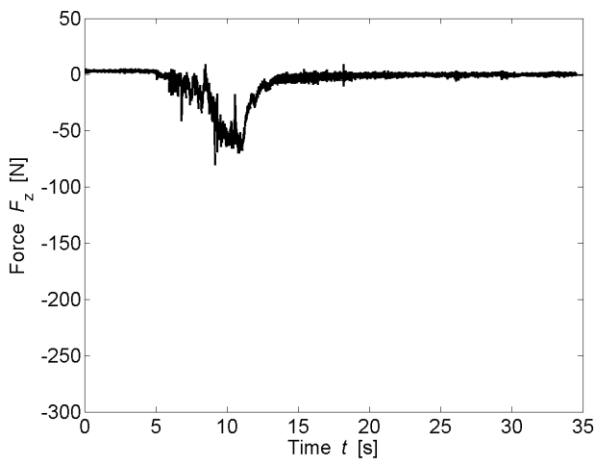
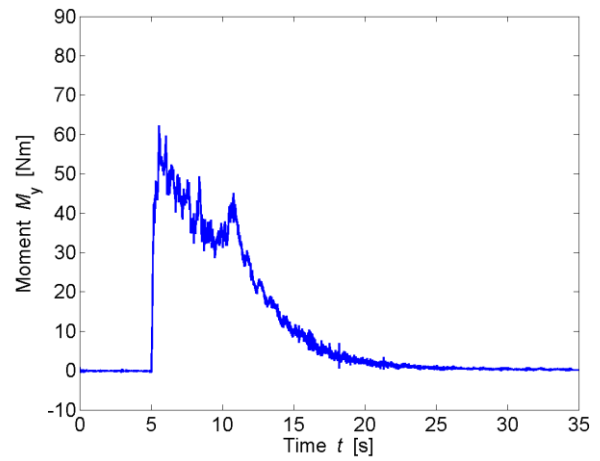
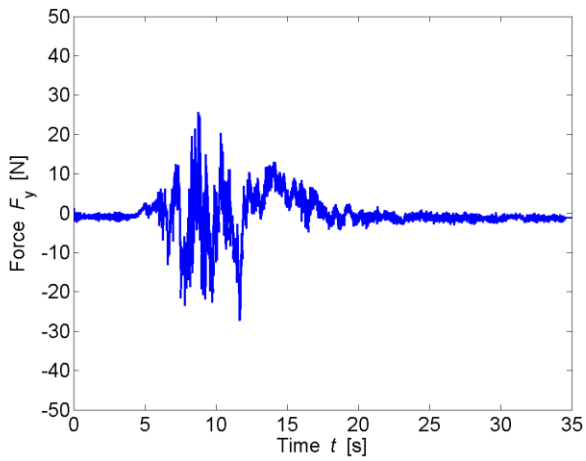
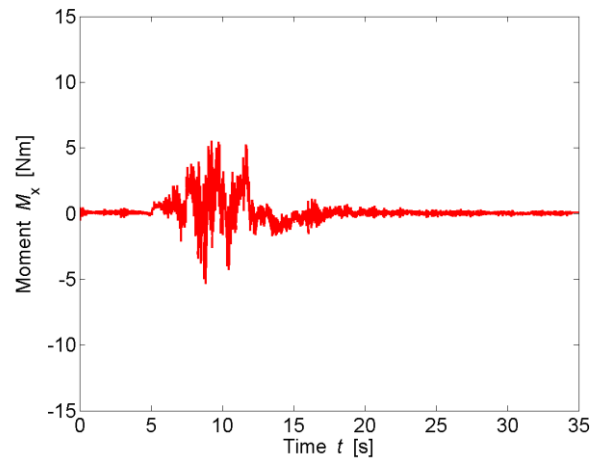
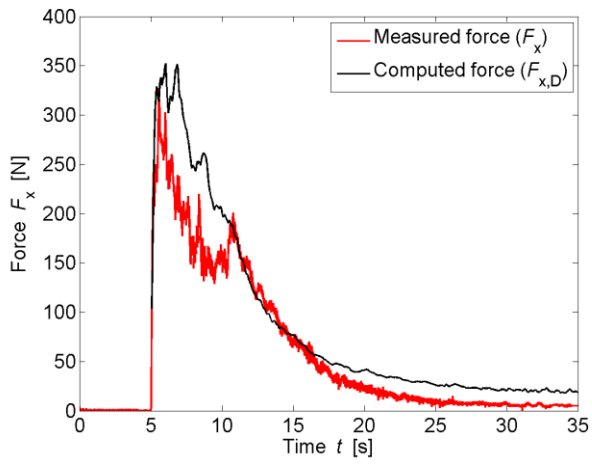


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.315	327.092	[N]
F_y	-27.303	25.655	[N]
F_z	-80.436	9.340	[N]
M_x	-5.348	5.549	[Nm]
M_y	-1.490	62.213	[Nm]
M_z	-2.626	1.968	[Nm]
Predicted Force	$F_{x,D,max}$	352.515	[N]
Initial time	t_0	5.024	[s]
Time to peak	τ_{max}	0.555	[s]
Total impulse	I_{tot}	1947.828	[Ns]
Peak Impulse	I_{peak}	116.300	[Ns]
Relative impulse	I^*	0.064	[-]
Wave height at $F_{x,max}$	h_M	0.669	[-]
Resistance coefficient	C_R	1.795	[-]

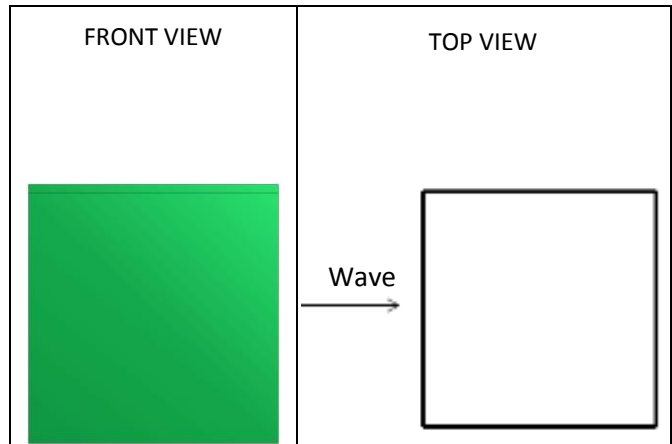


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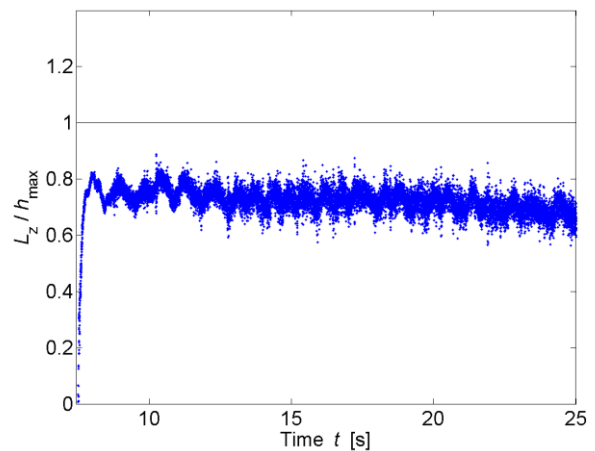
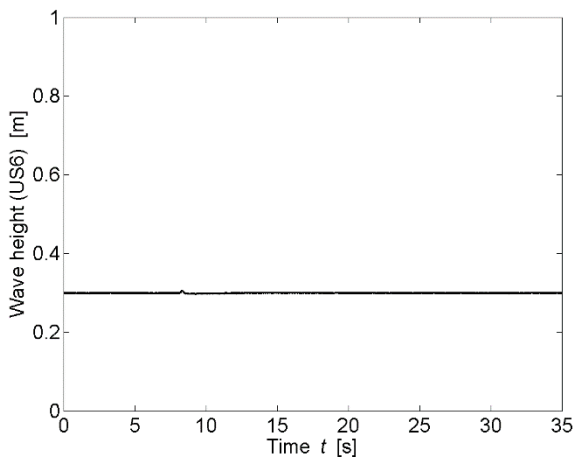
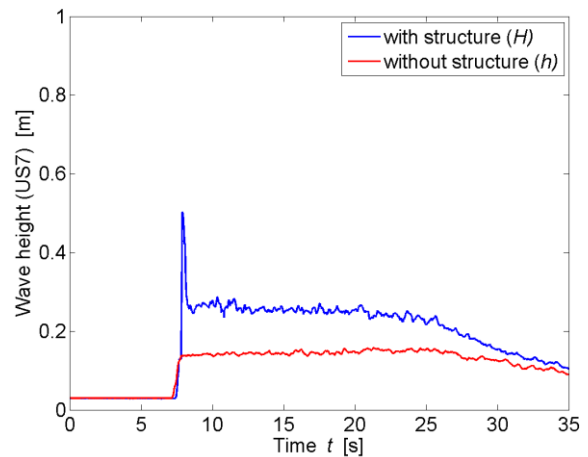
TEST PARAMETERS

Name	B0_0_WW3_1P_1		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.951	[m/s]
Maximum wave height	h_{max}	0.159	[m]
Maximum run-up height	H_{max}	0.503	[m]

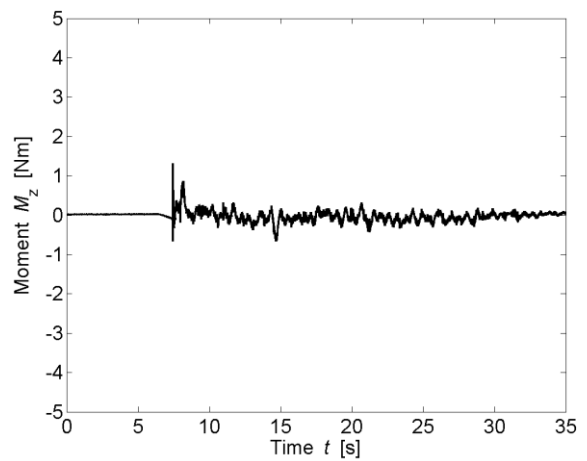
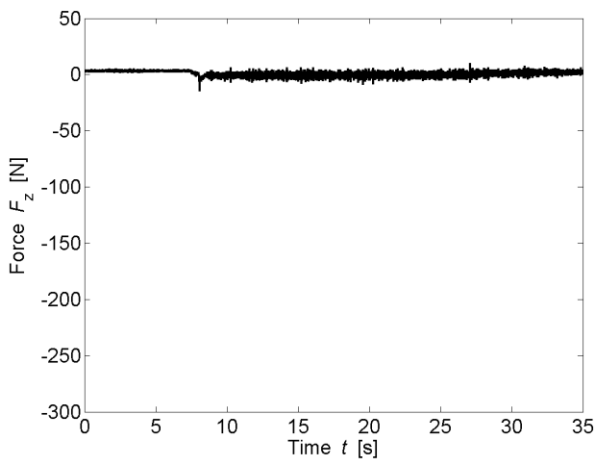
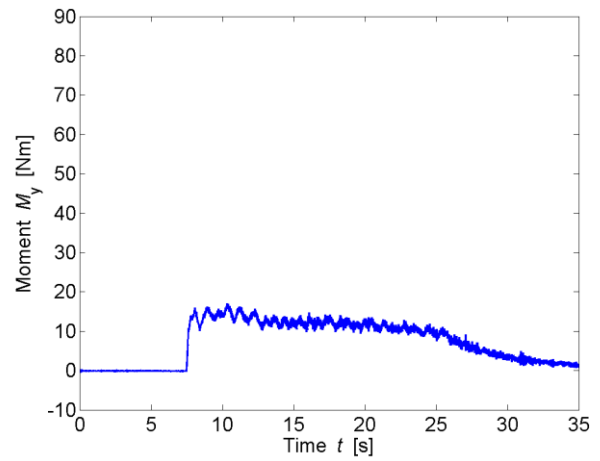
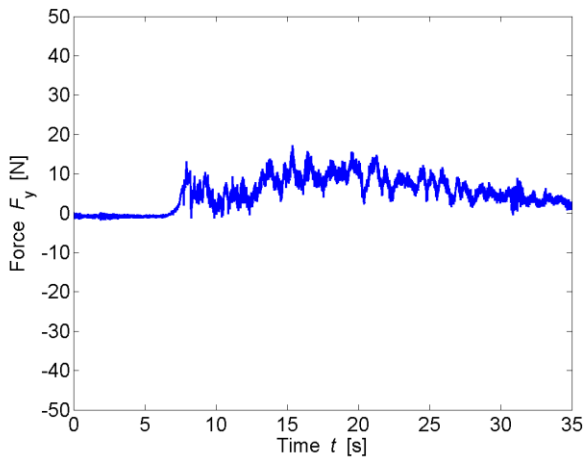
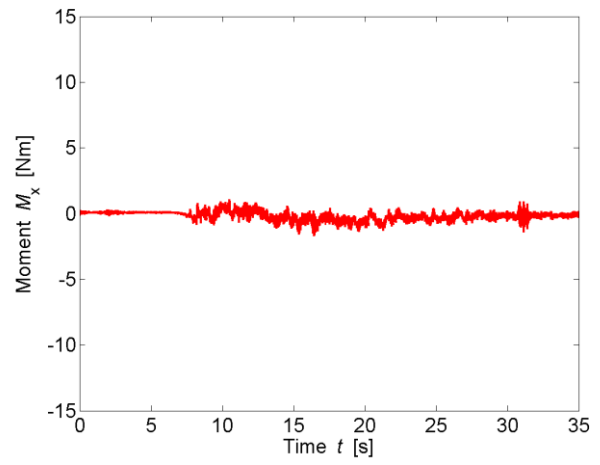
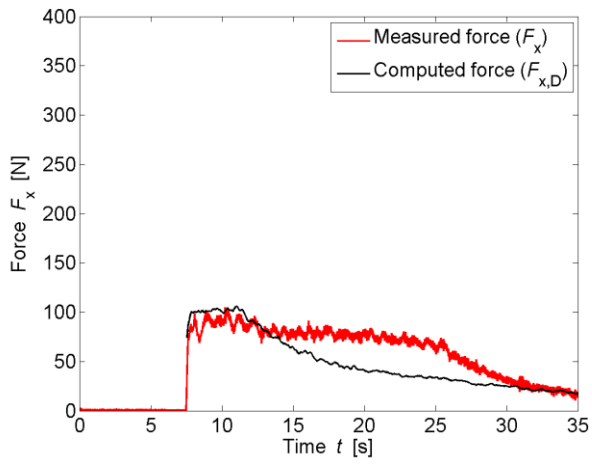


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.460	104.654	[N]
F_y	-1.803	17.237	[N]
F_z	-14.651	10.277	[N]
M_x	-1.710	1.083	[Nm]
M_y	-0.627	17.002	[Nm]
M_z	-1.692	0.061	[Nm]
Predicted Force	$F_{x,D,max}$	105.981	[N]
Initial time	t_0	7.492	[s]
Time to peak	τ_{max}	2.752	[s]
Total impulse	I_{tot}	1534.366	[Ns]
Peak Impulse	I_{peak}	233.237	[Ns]
Relative impulse	I^*	0.148	[-]
Wave height at $F_{x,max}$	h_M	0.878	[-]
Resistance coefficient	C_R	1.867	[-]

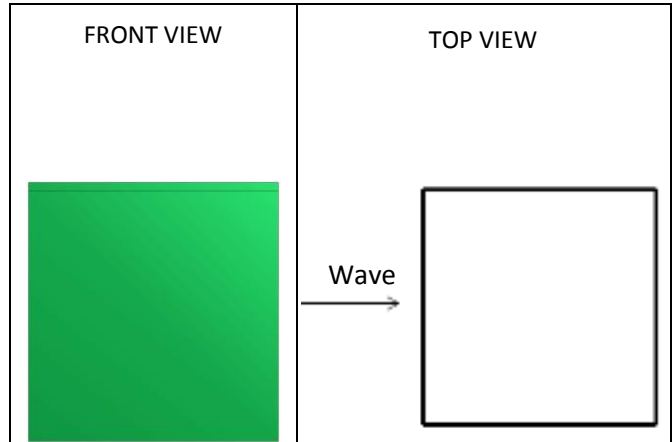


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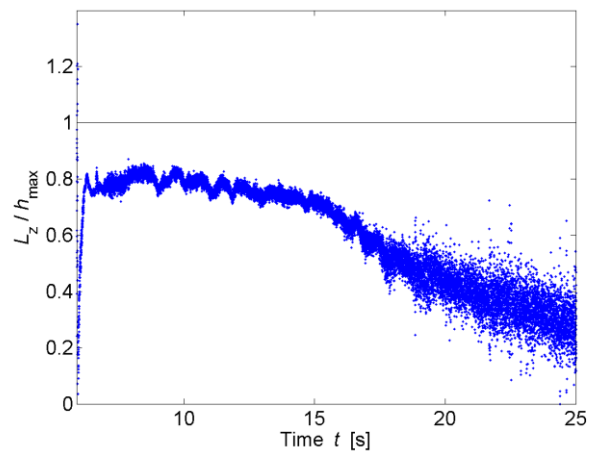
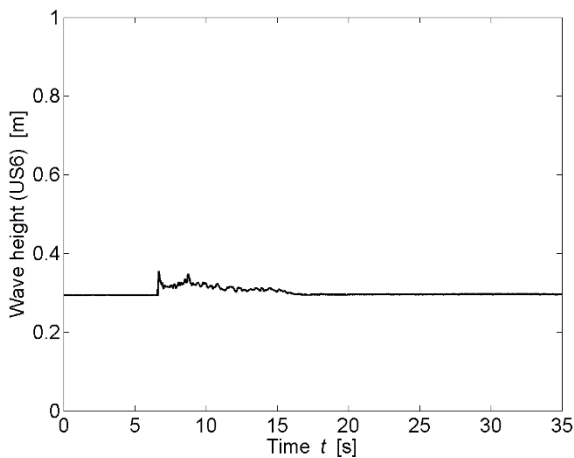
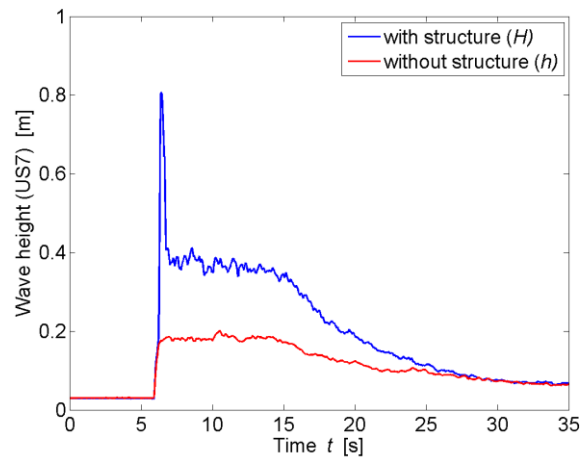
TEST PARAMETERS

Name	B0_0_WW3_2P_3		
Repetitions	3		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.481	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.807	[m]

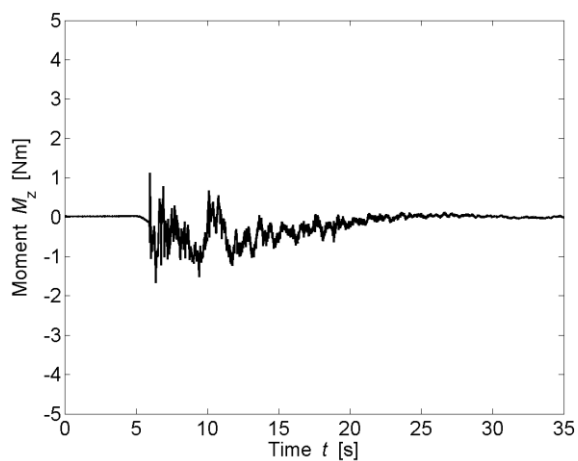
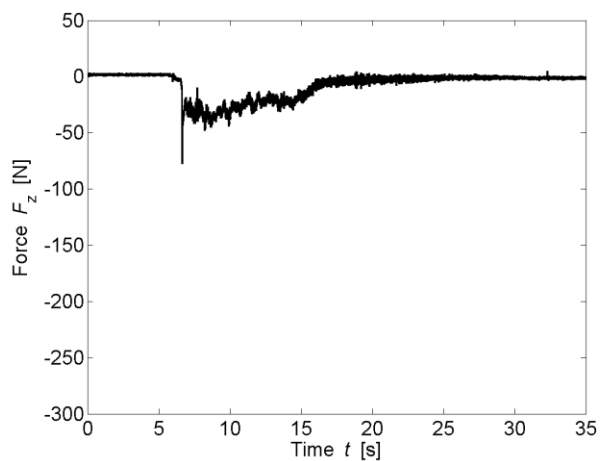
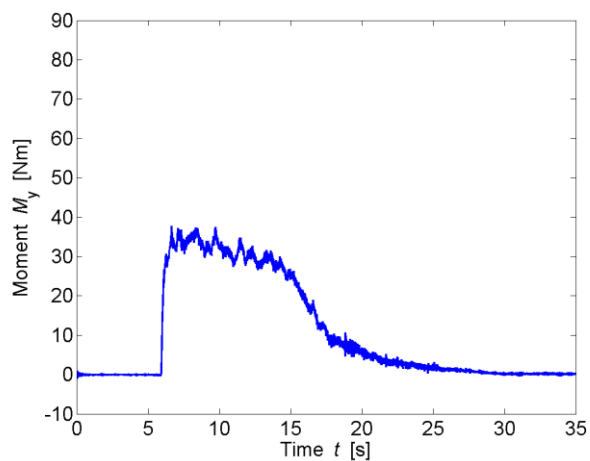
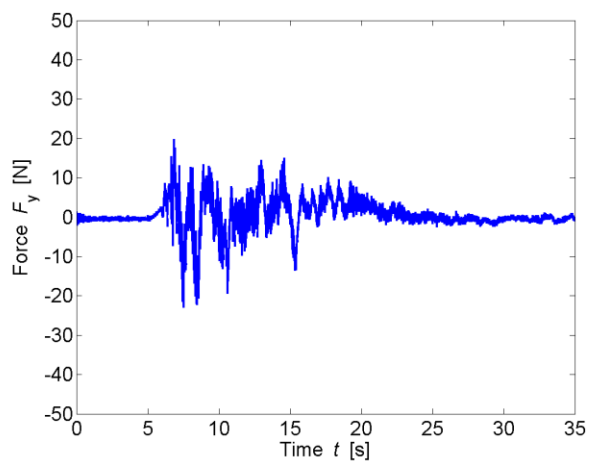
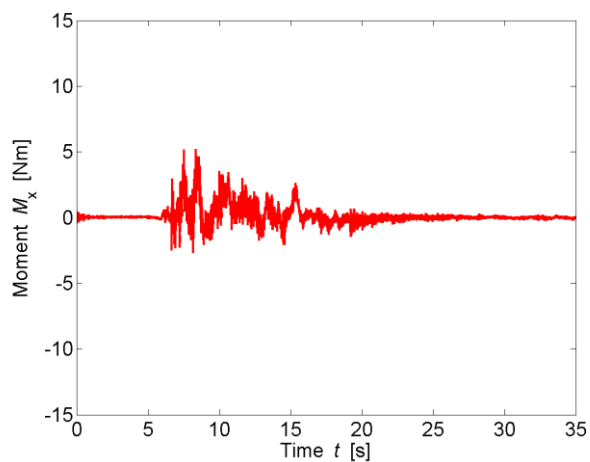
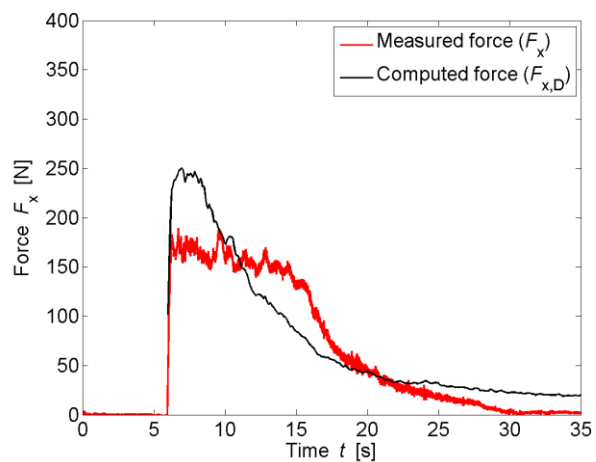


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.222	192.750	[N]
F_y	-22.902	19.802	[N]
F_z	-77.515	4.857	[N]
M_x	-2.671	5.209	[Nm]
M_y	-1.023	37.720	[Nm]
M_z	-1.667	1.127	[Nm]
Predicted Force	$F_{x,D,max}$	250.164	[N]
Initial time	t_0	5.934	[s]
Time to peak	τ_{max}	0.724	[s]
Total impulse	I_{tot}	2040.401	[Ns]
Peak Impulse	I_{peak}	101.189	[Ns]
Relative impulse	I^*	0.052	[-]
Wave height at $F_{x,max}$	h_M	0.897	[-]
Resistance coefficient	C_R	1.544	[-]

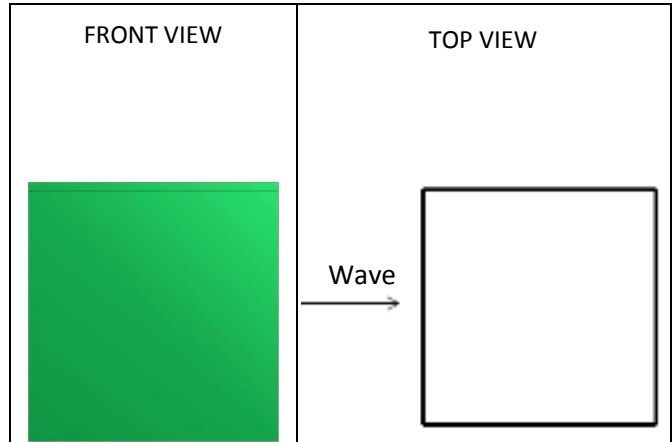


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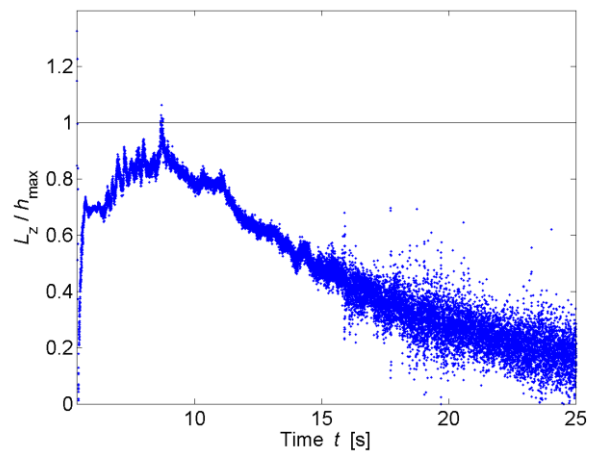
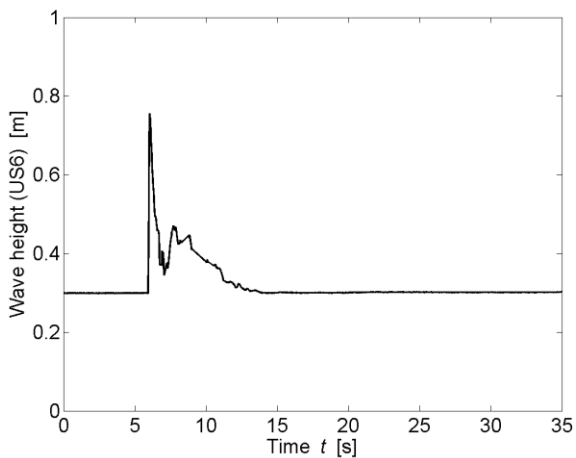
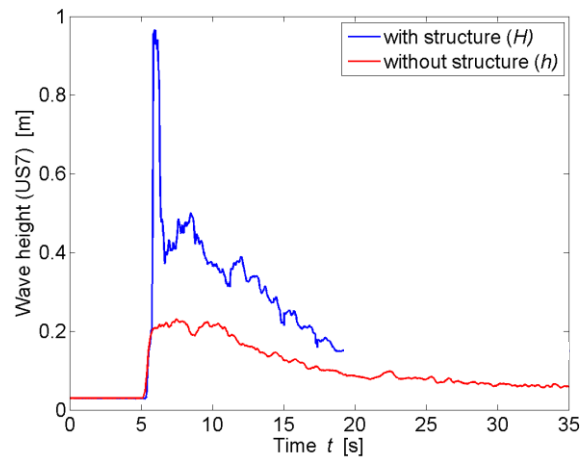
TEST PARAMETERS

Name	B0_0_WW3_3P_2		
Repetitions	4		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_3P)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.782	[m/s]
Maximum wave height	h_{max}	0.231	[m]
Maximum run-up height	H_{max}	0.965	[m]

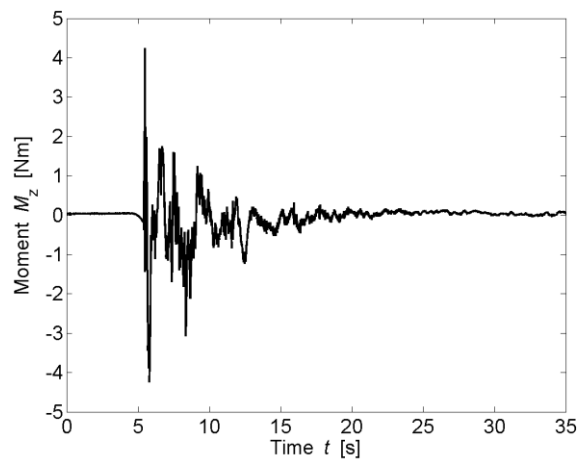
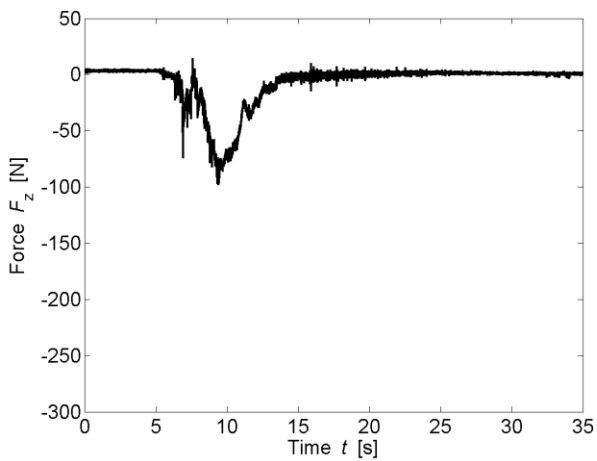
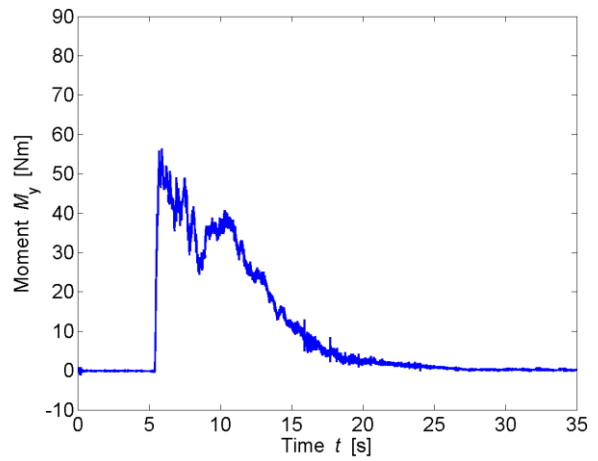
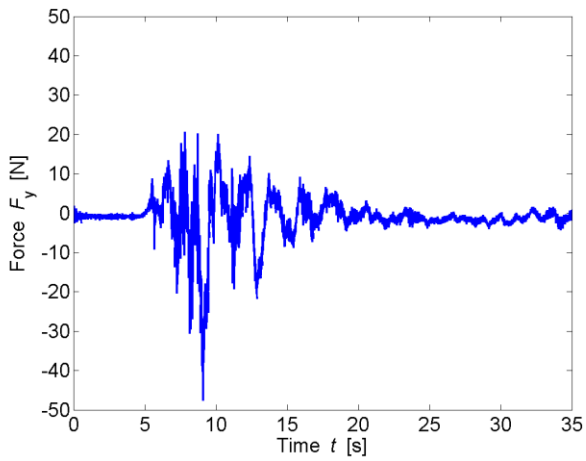
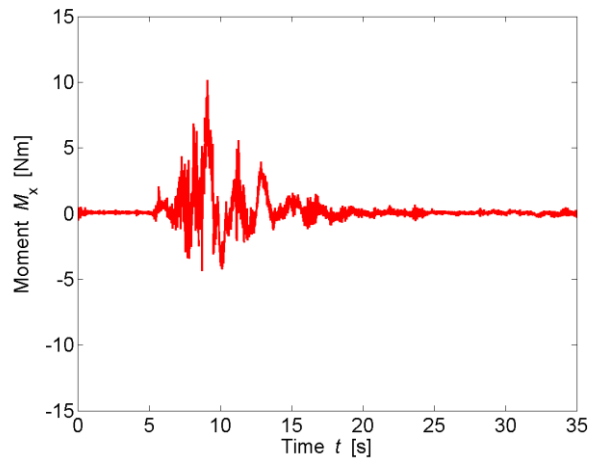
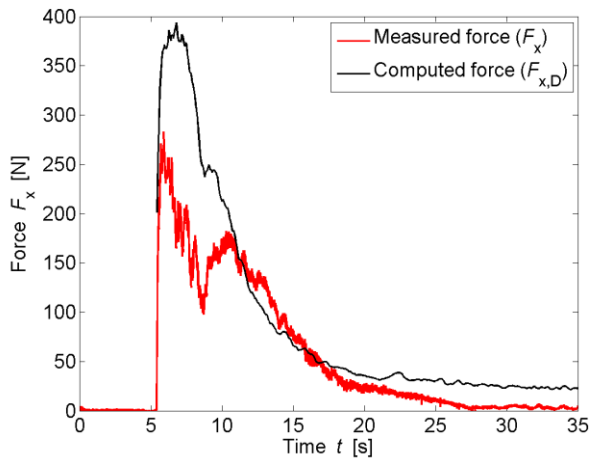


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.299	282.962	[N]
F_y	-47.614	20.663	[N]
F_z	-97.866	14.400	[N]
M_x	-4.363	10.157	[Nm]
M_y	-1.213	56.362	[Nm]
M_z	-4.245	4.251	[Nm]
Predicted Force	$F_{x,D,max}$	393.639	[N]
Initial time	t_0	5.397	[s]
Time to peak	τ_{max}	0.522	[s]
Total impulse	I_{tot}	1793.149	[Ns]
Peak Impulse	I_{peak}	102.628	[Ns]
Relative impulse	I^*	0.061	[-]
Wave height at $F_{x,max}$	h_M	0.897	[-]
Resistance coefficient	C_R	1.488	[-]



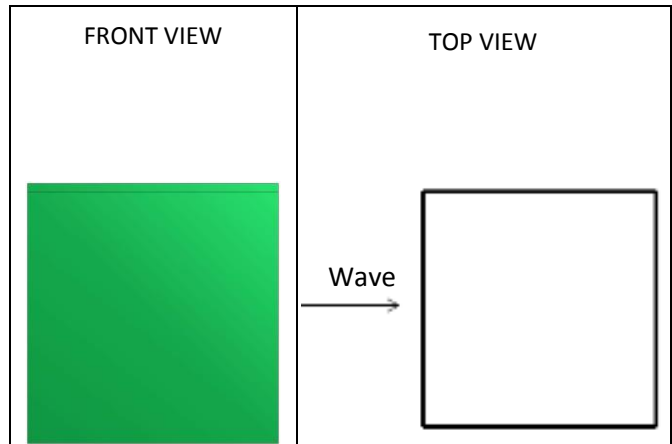
* All parameters are presented and defined at the beginning of the Appendix



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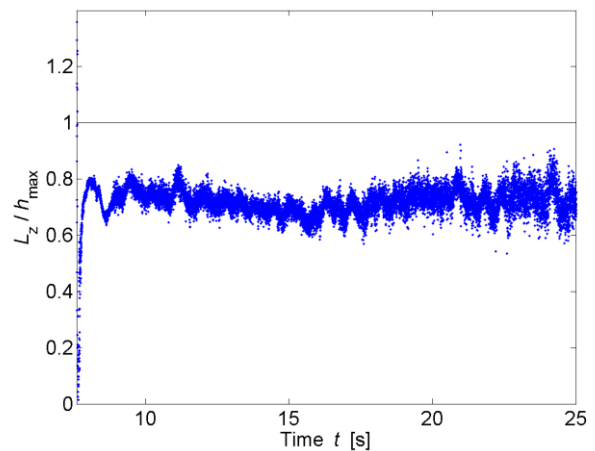
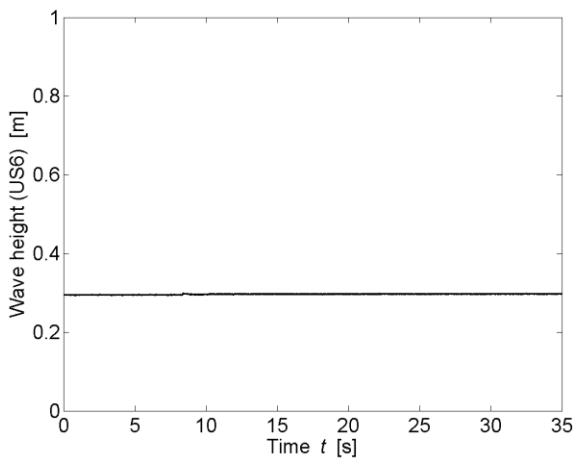
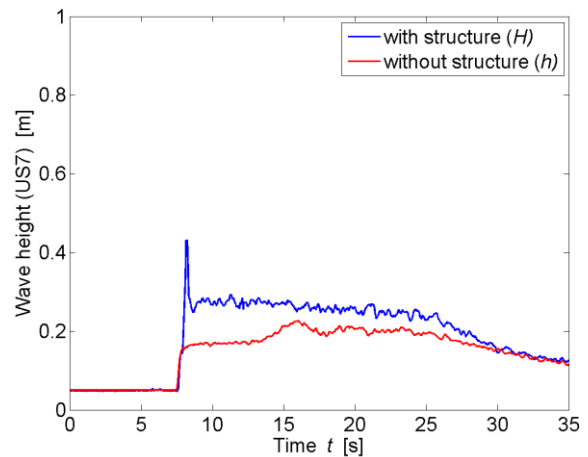
TEST PARAMETERS

Name	B0_0_WW5_1P_2		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.919	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.433	[m]

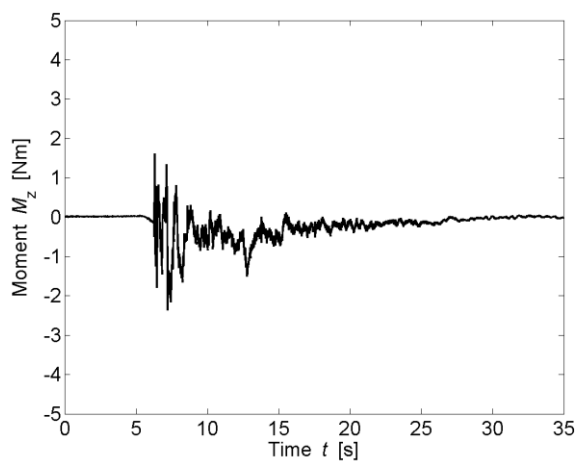
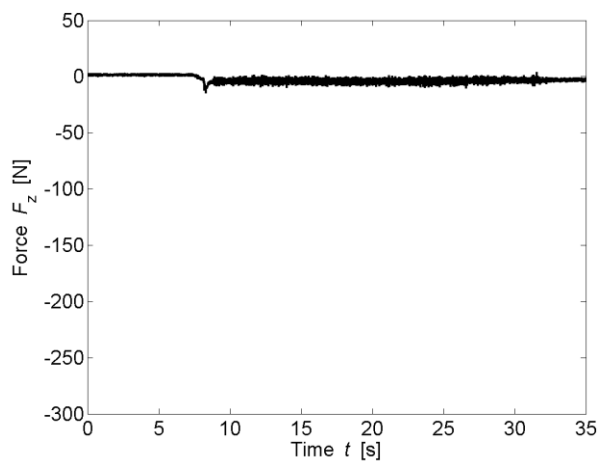
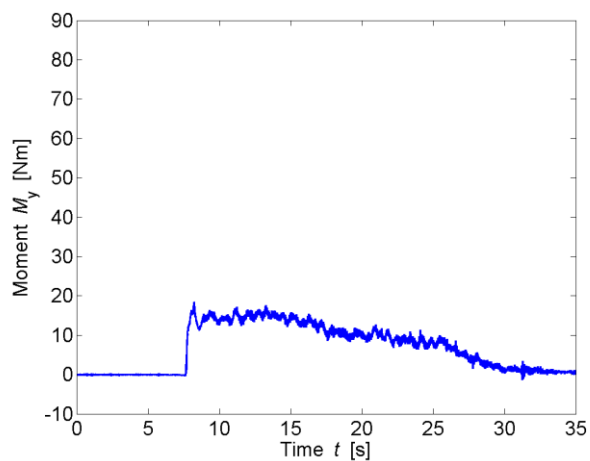
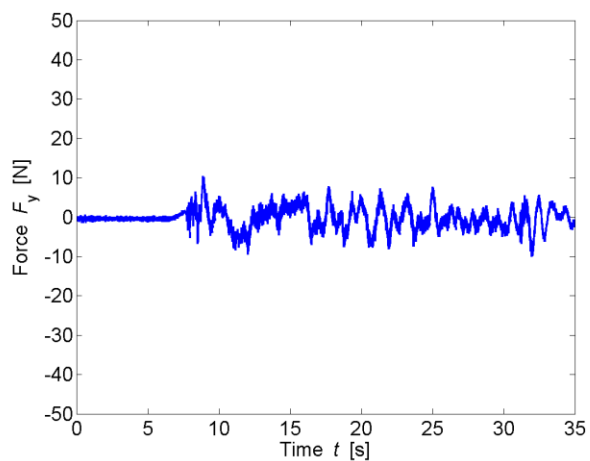
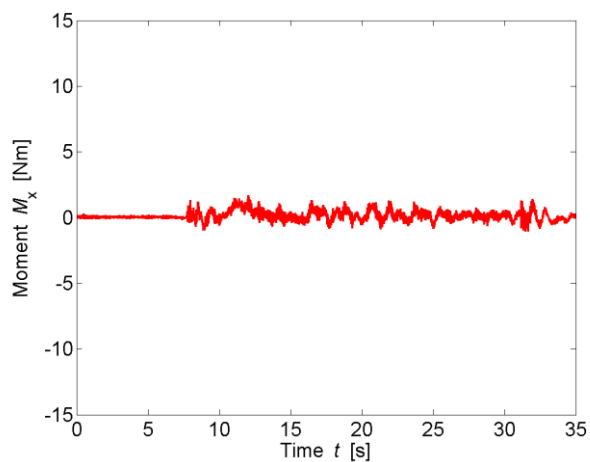
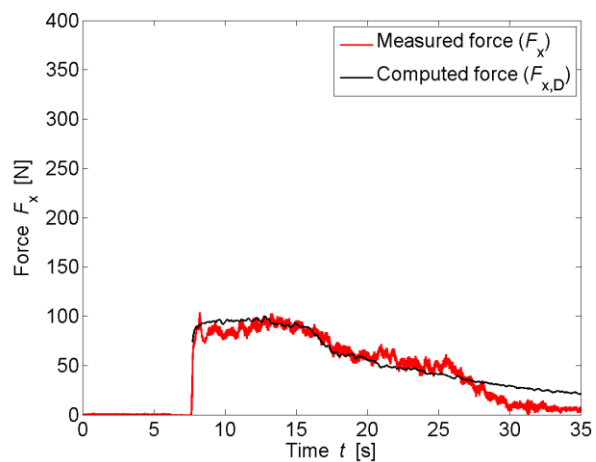


IMPACT PATAMETERS

	Min	Max	Unity
F_x	-2.544	103.690	[N]
F_y	-10.054	10.429	[N]
F_z	-14.729	3.920	[N]
M_x	-1.045	1.680	[Nm]
M_y	-1.310	18.391	[Nm]
M_z	-0.548	0.427	[Nm]
Predicted Force	$F_{x,D,max}$	99.761	[N]
Initial time	t_0	7.649	[s]
Time to peak	τ_{max}	0.585	[s]
Total impulse	I_{tot}	1386.603	[Ns]
Peak Impulse	I_{peak}	42.580	[Ns]
Relative impulse	I^*	0.030	[-]
Wave height at $F_{x,max}$	h_M	0.708	[-]
Resistance coefficient	C_R	1.955	[-]

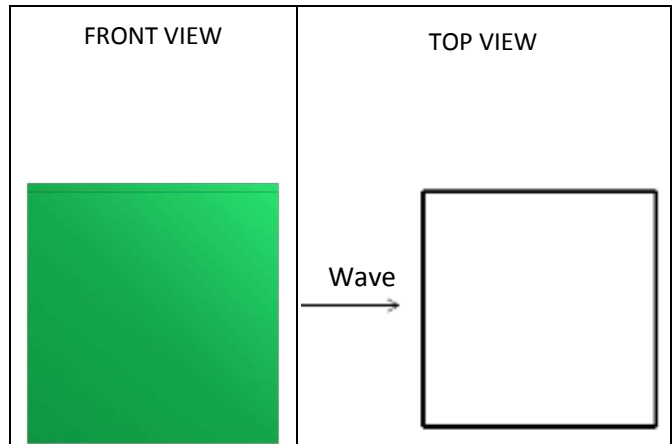


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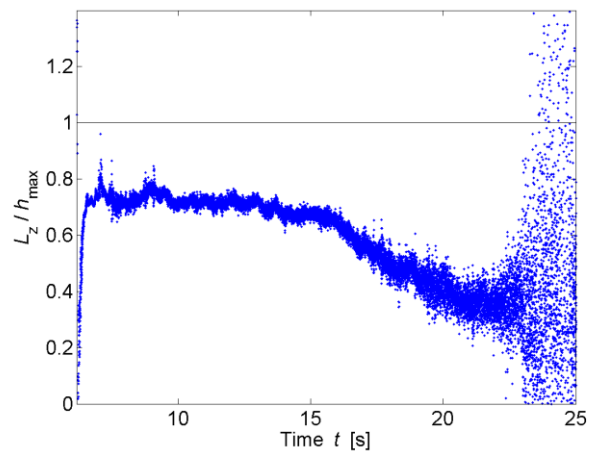
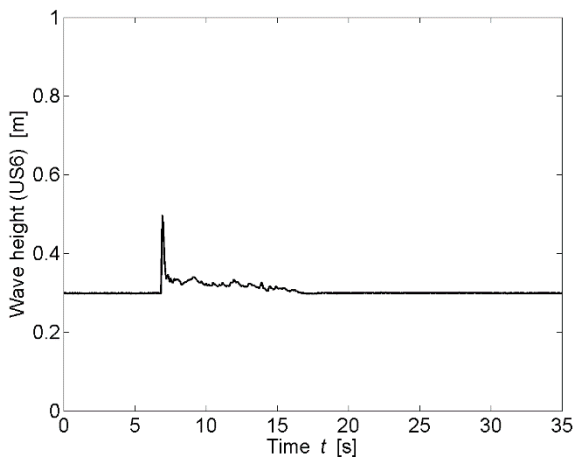
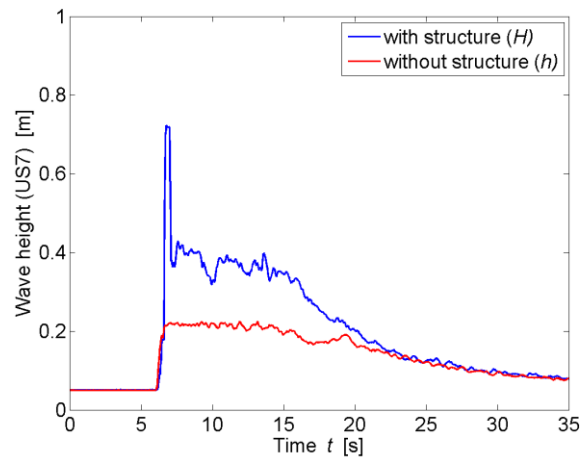
TEST PARAMETERS

Name	B0_0_WW5_2P_1		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.437	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.723	[m]

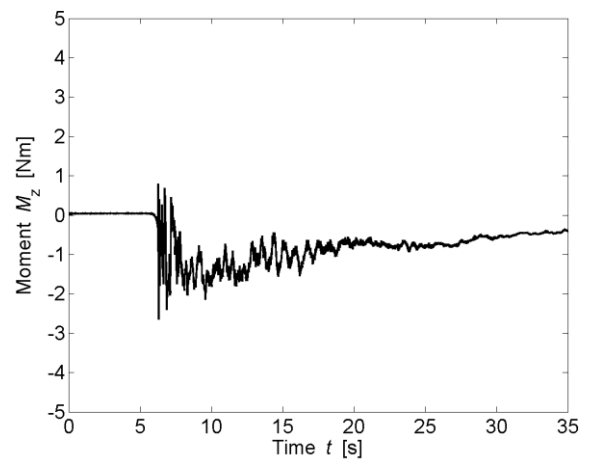
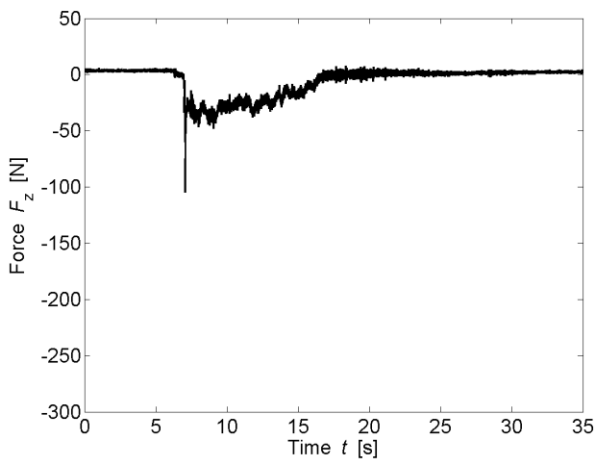
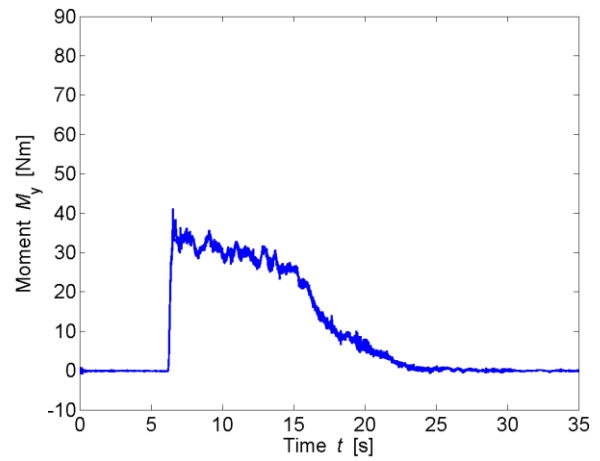
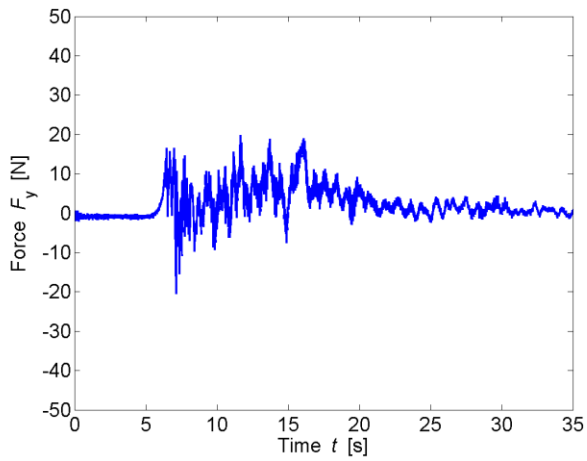
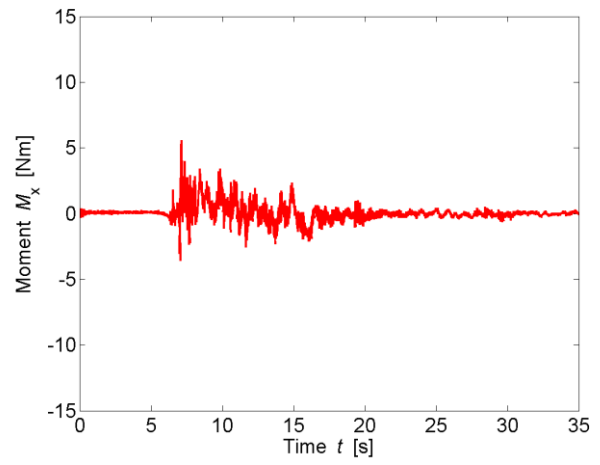
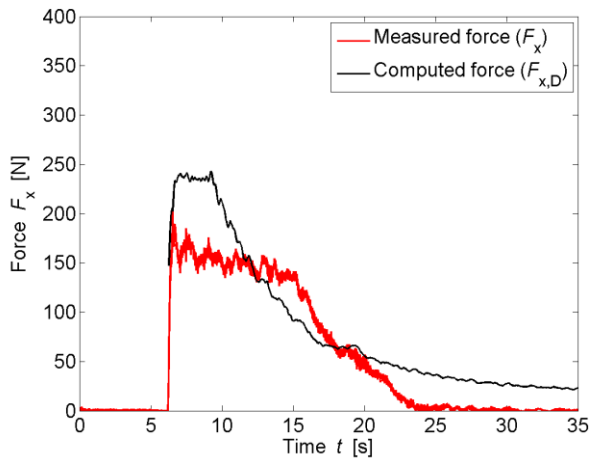


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.831	202.155	[N]
F_y	-20.450	19.782	[N]
F_z	-104.614	8.027	[N]
M_x	-3.581	5.565	[Nm]
M_y	-0.967	41.156	[Nm]
M_z	-2.656	0.801	[Nm]
Predicted Force	$F_{x,D,max}$	242.846	[N]
Initial time	t_0	6.210	[s]
Time to peak	τ_{max}	0.334	[s]
Total impulse	I_{tot}	1819.599	[Ns]
Peak Impulse	I_{peak}	37.089	[Ns]
Relative impulse	I^*	0.021	[-]
Wave height at $F_{x,max}$	h_M	0.819	[-]
Resistance coefficient	C_R	1.693	[-]

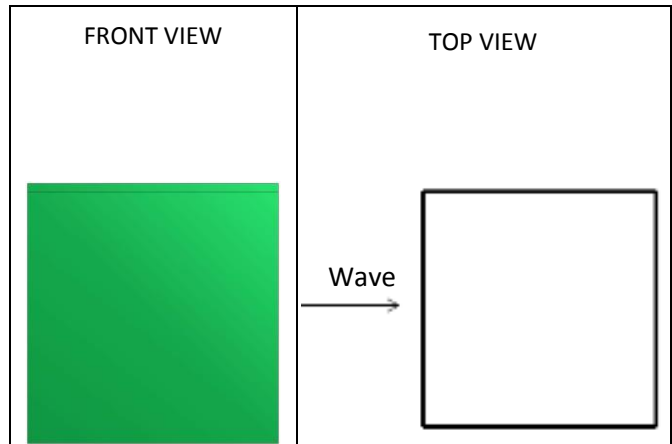


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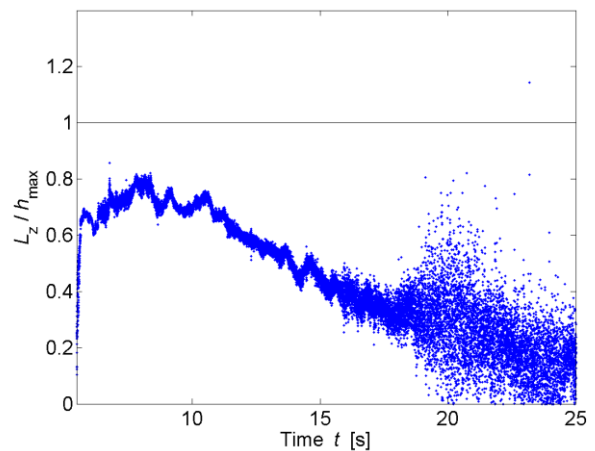
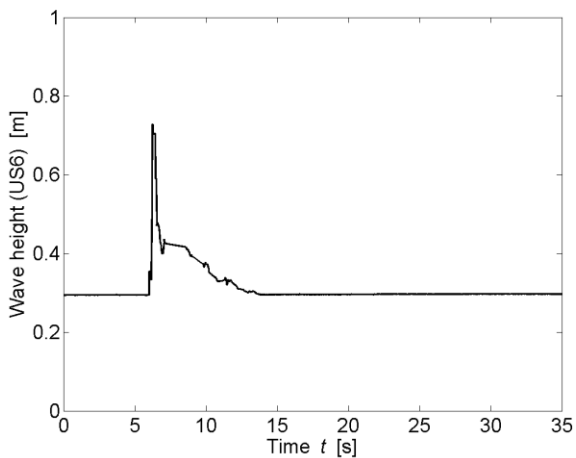
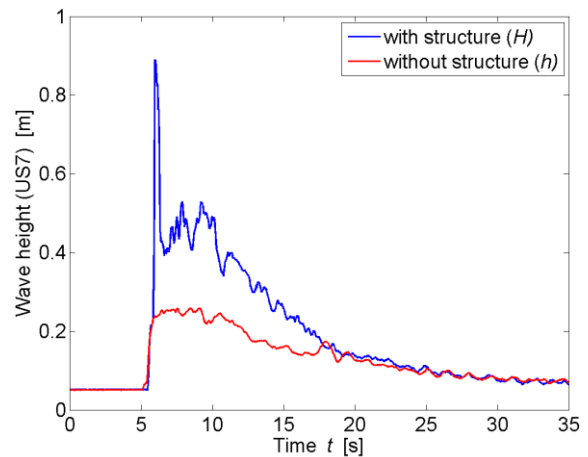
TEST PARAMETERS

Name	B0_0_WW5_3P_2		
Repetitions	2		
Configuration	Reference		
Total porosity	P_{tot}	0	[%]
Porosity at h_{max}	$P_{h,max}$	0	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_3P)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.691	[m/s]
Maximum wave height	h_{max}	0.259	[m]
Maximum run-up height	H_{max}	0.890	[m]

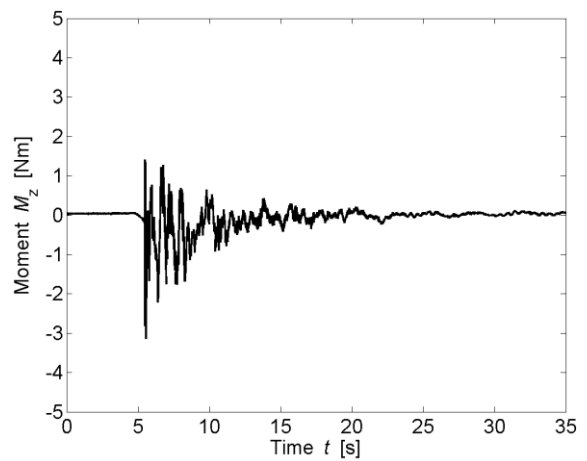
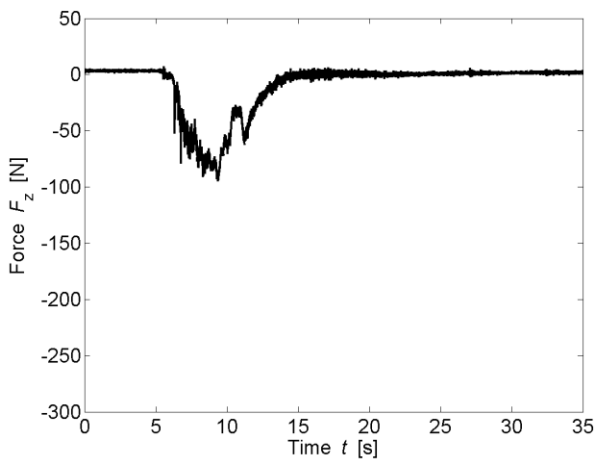
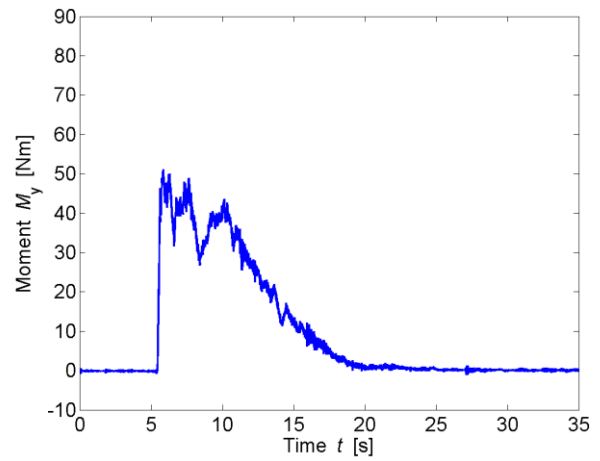
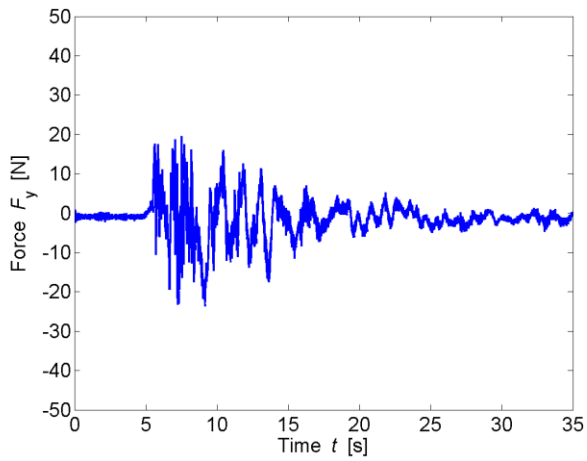
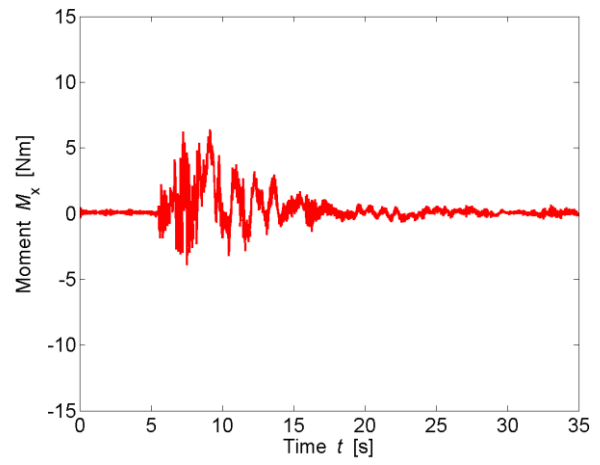
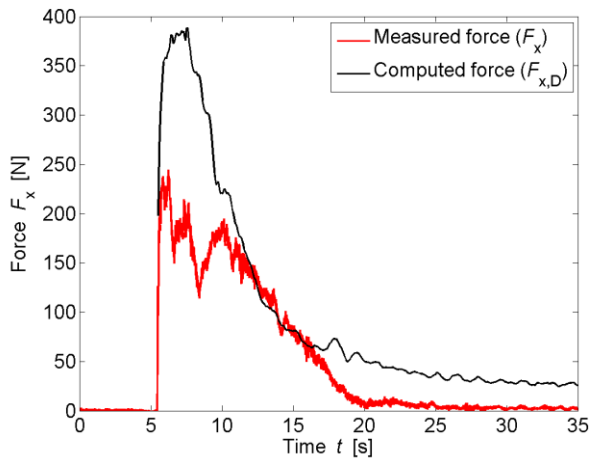


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.089	244.639	[N]
F_y	-23.681	19.586	[N]
F_z	-94.868	7.465	[N]
M_x	-3.915	6.399	[Nm]
M_y	-1.098	51.062	[Nm]
M_z	-3.136	1.403	[Nm]
Predicted Force	$F_{x,D,max}$	388.482	[N]
Initial time	t_0	5.522	[s]
Time to peak	τ_{max}	0.713	[s]
Total impulse	I_{tot}	1696.173	[Ns]
Peak Impulse	I_{peak}	148.213	[Ns]
Relative impulse	I^*	0.091	[-]
Wave height at $F_{x,max}$	h_M	0.929	[-]
Resistance coefficient	C_R	1.354	[-]

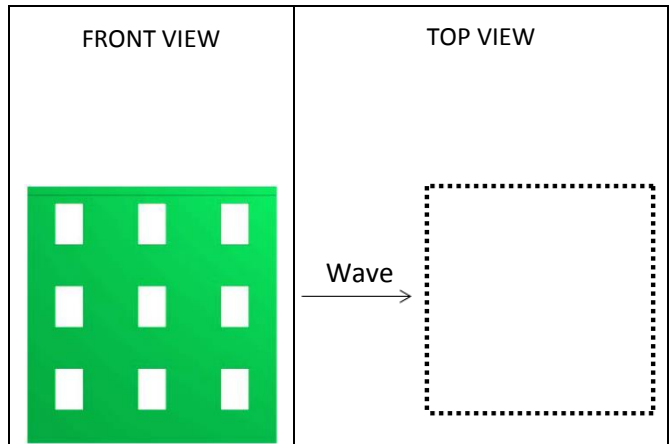


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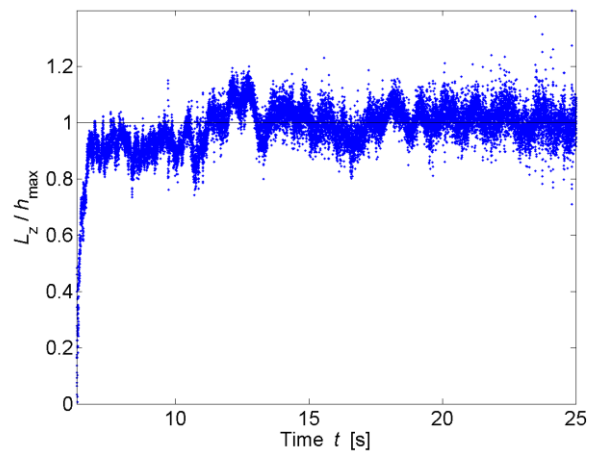
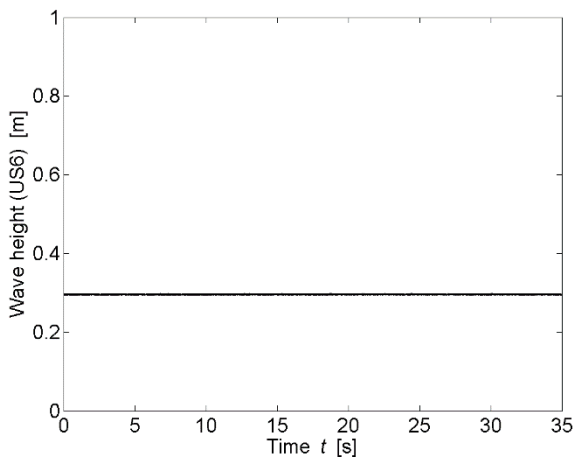
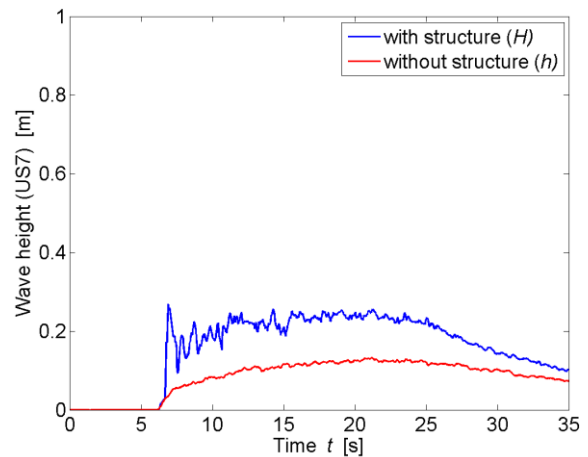
TEST PARAMETERS

Name	B17_0_WD1_2		
Repetitions	3		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	13.31	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.342	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.268	[m]

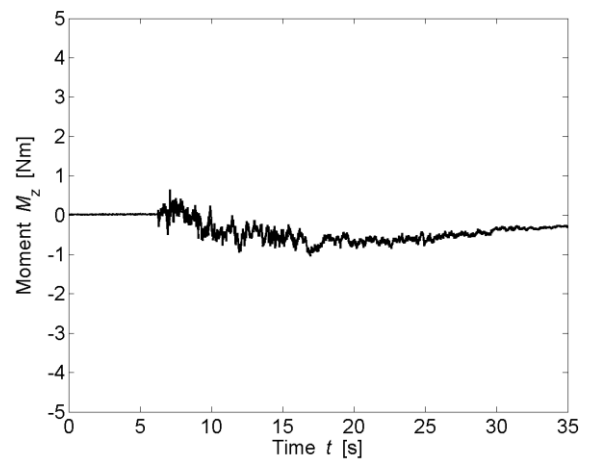
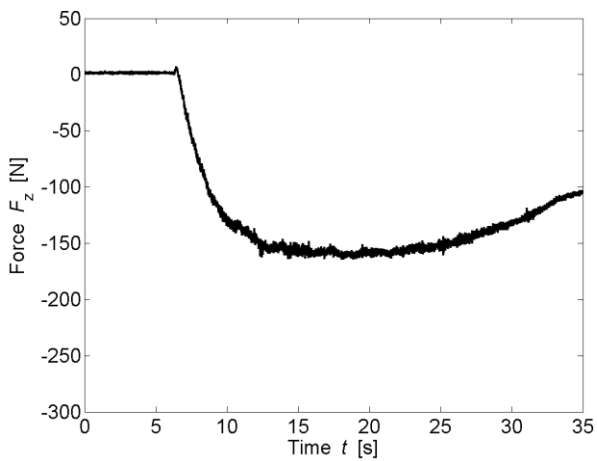
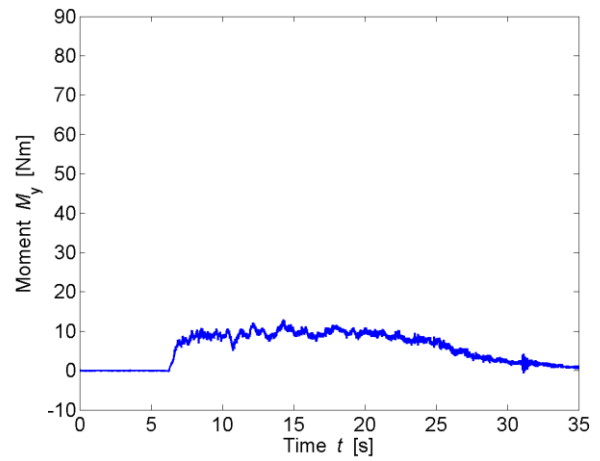
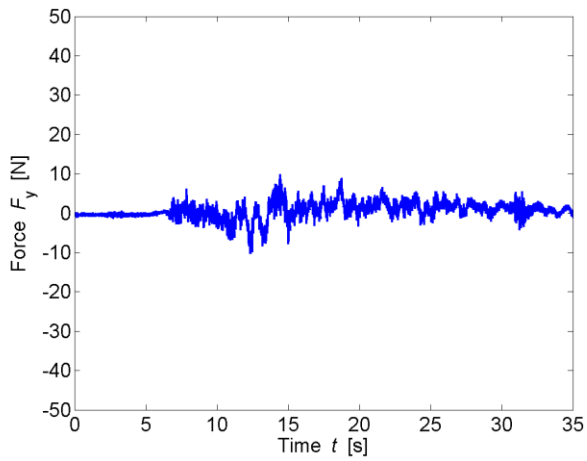
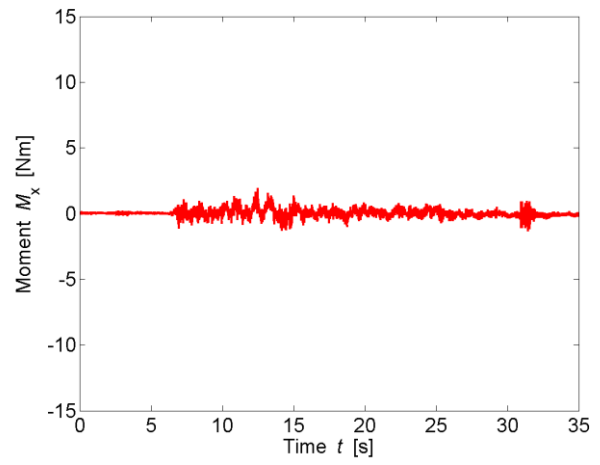
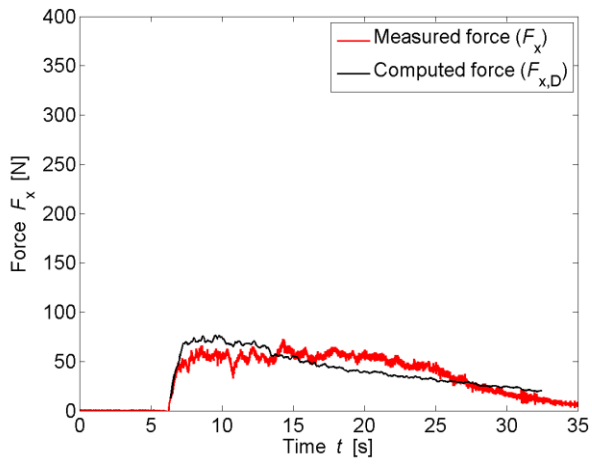


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.843	72.529	[N]
F_y	-10.299	9.866	[N]
F_z	-164.386	7.106	[N]
M_x	-1.314	1.928	[Nm]
M_y	-0.719	12.988	[Nm]
M_z	-1.040	0.644	[Nm]
Predicted Force	$F_{x,D,max}$	76.561	[N]
Initial time	t_0	6.332	[s]
Time to peak	τ_{max}	7.943	[s]
Total impulse	I_{tot}	1039.449	[Ns]
Peak Impulse	I_{peak}	411.053	[Ns]
Relative impulse	I^*	0.384	[-]
Wave height at $F_{x,max}$	h_M	0.808	[-]
Resistance coefficient	C_R	2.134	[-]

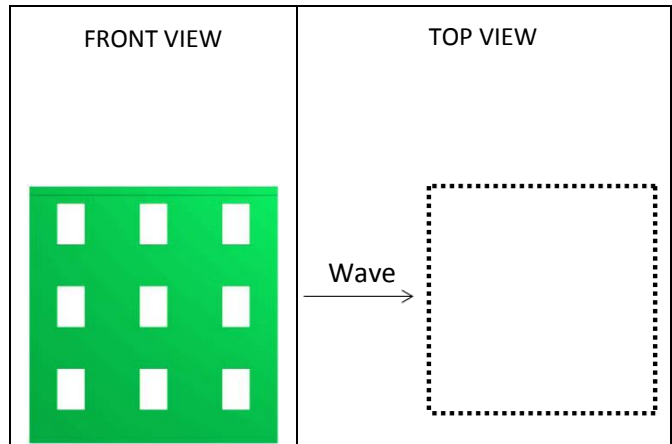


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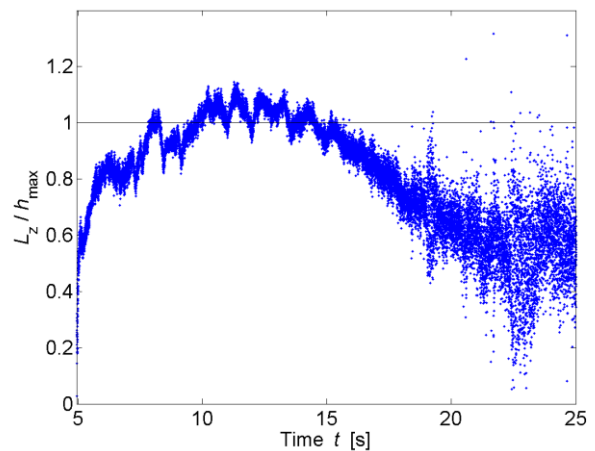
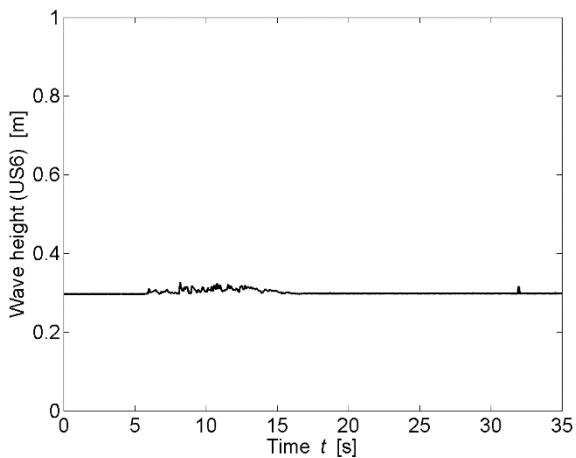
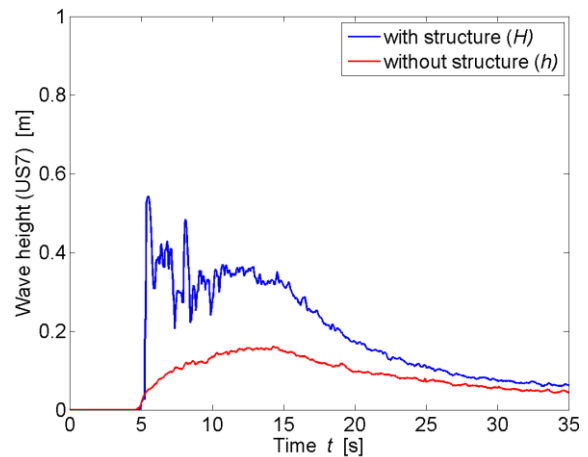
TEST PARAMETERS

Name	B17_0_WD2_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	16.68	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.087	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.543	[m]

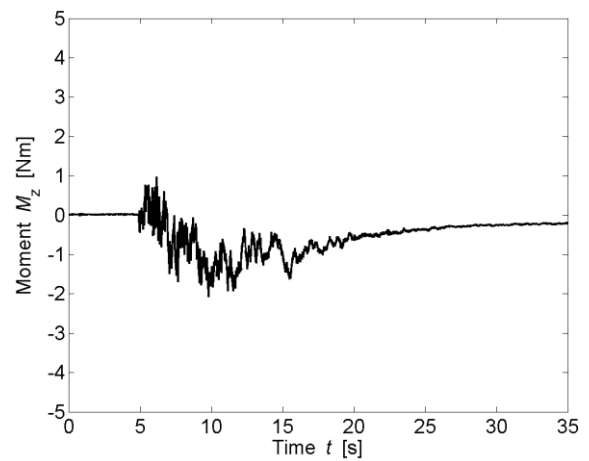
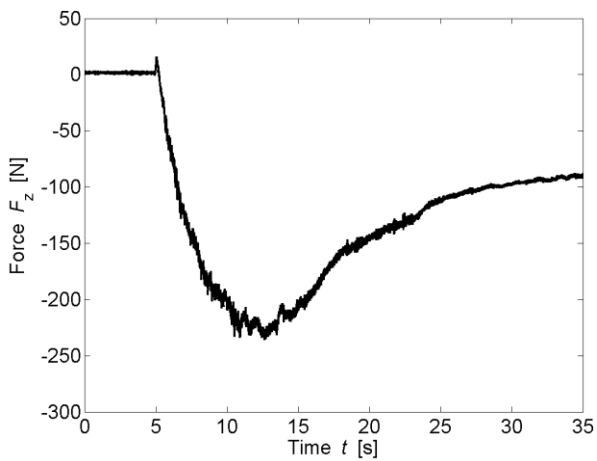
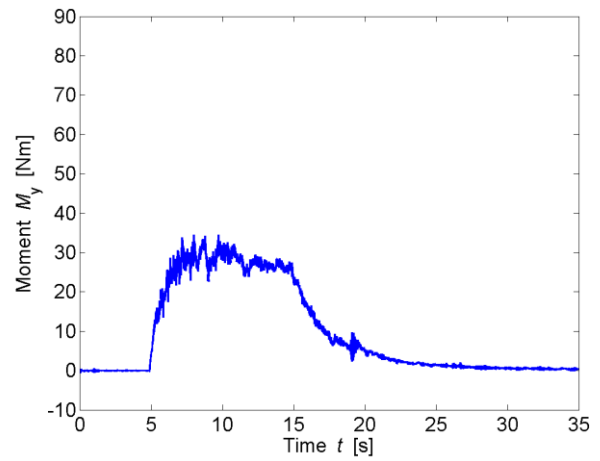
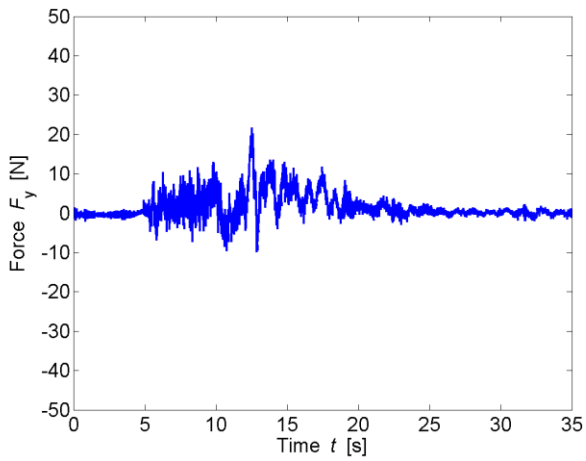
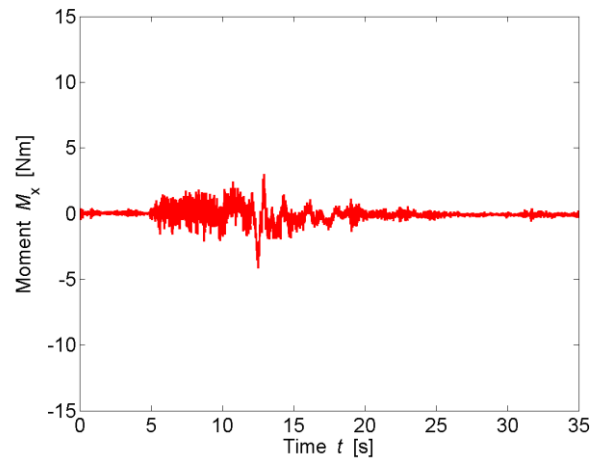
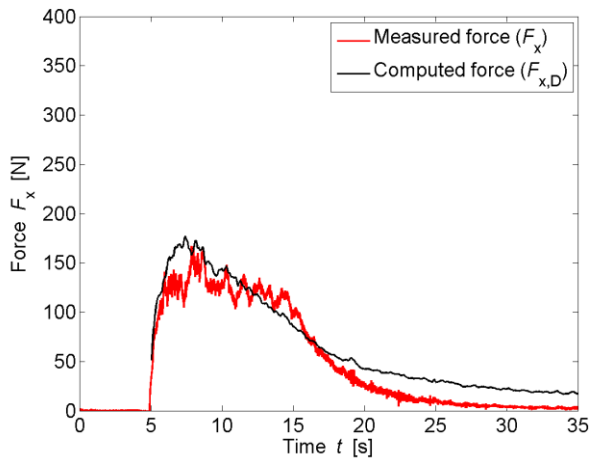


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.714	166.884	[N]
F_y	-9.907	21.711	[N]
F_z	-236.075	16.103	[N]
M_x	-4.157	2.986	[Nm]
M_y	-0.892	33.458	[Nm]
M_z	-2.076	0.974	[Nm]
Predicted Force	$F_{x,D,max}$	176.948	[N]
Initial time	t_0	5.002	[s]
Time to peak	τ_{max}	2.867	[s]
Total impulse	I_{tot}	1601.965	[Ns]
Peak Impulse	I_{peak}	324.536	[Ns]
Relative impulse	I^*	0.212	[-]
Wave height at $F_{x,max}$	h_M	0.641	[-]
Resistance coefficient	C_R	1.568	[-]

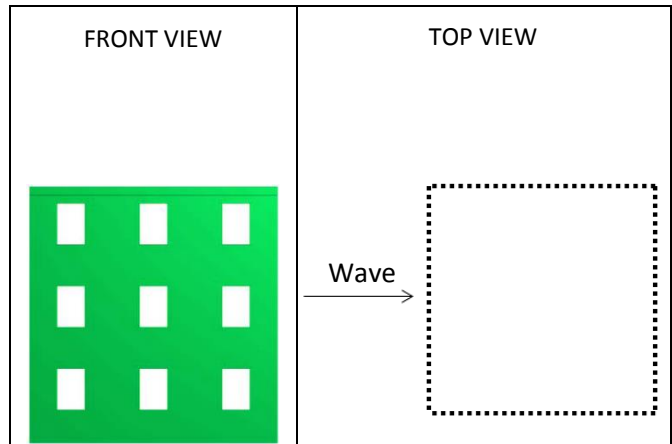


* All parameters are presented and defined at the beginning of the Appendix



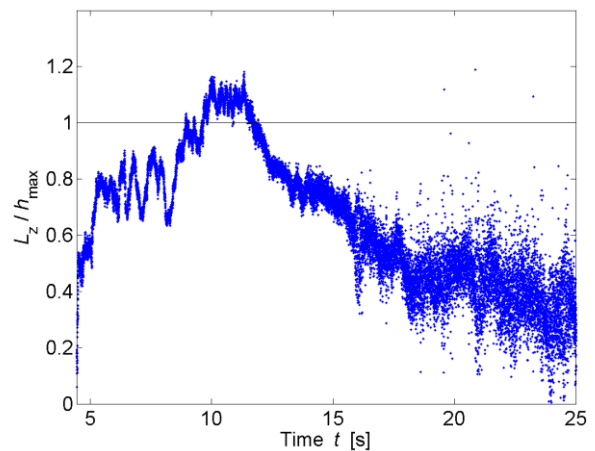
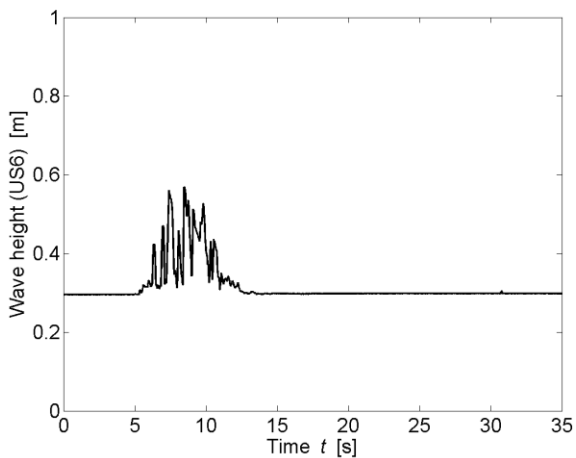
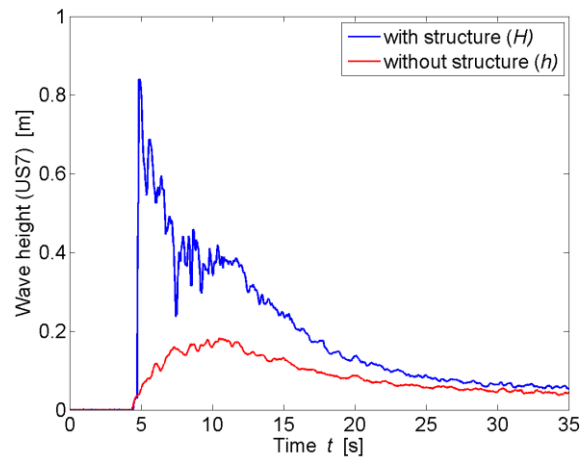
TEST PARAMETERS

Name	B17_0_WD3_1		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	18.808	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.572	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.816	[m]

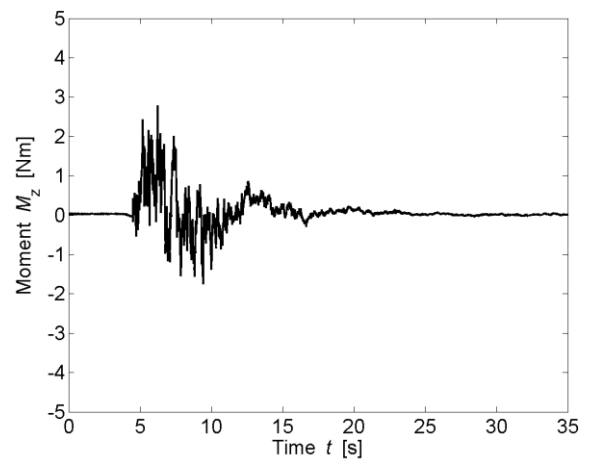
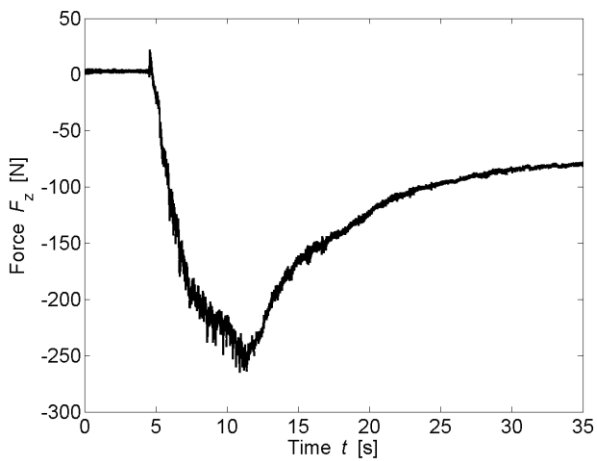
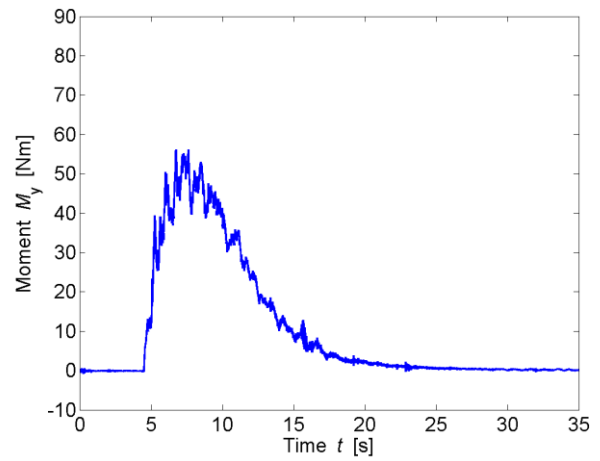
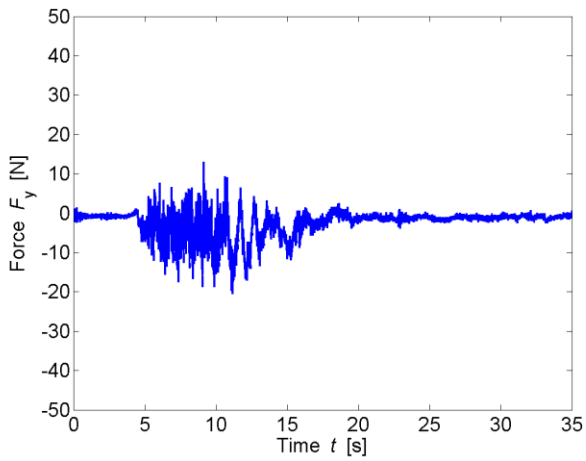
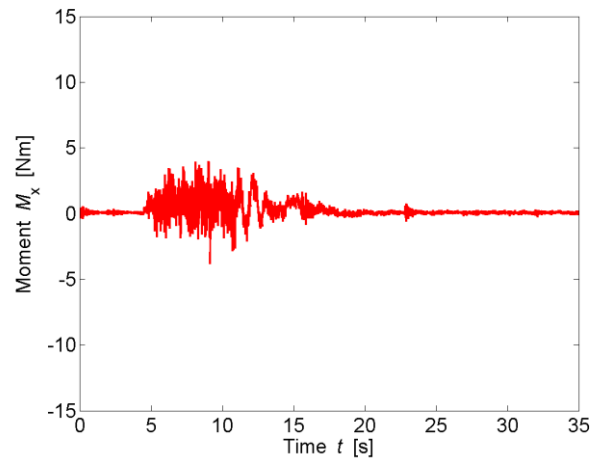
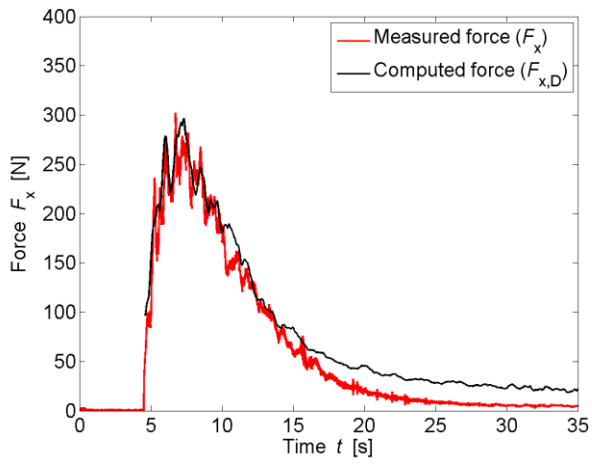


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.987	302.244	[N]
F_y	-20.457	12.948	[N]
F_z	-264.718	22.068	[N]
M_x	-3.814	3.972	[Nm]
M_y	-1.580	56.203	[Nm]
M_z	-1.757	2.785	[Nm]
Predicted Force	$F_{x,D,max}$	296.634	[N]
Initial time	t_0	4.558	[s]
Time to peak	τ_{max}	2.186	[s]
Total impulse	I_{tot}	1771.702	[Ns]
Peak Impulse	I_{peak}	401.177	[Ns]
Relative impulse	I^*	0.212	[-]
Wave height at $F_{x,max}$	h_M	0.717	[-]
Resistance coefficient	C_R	1.703	[-]

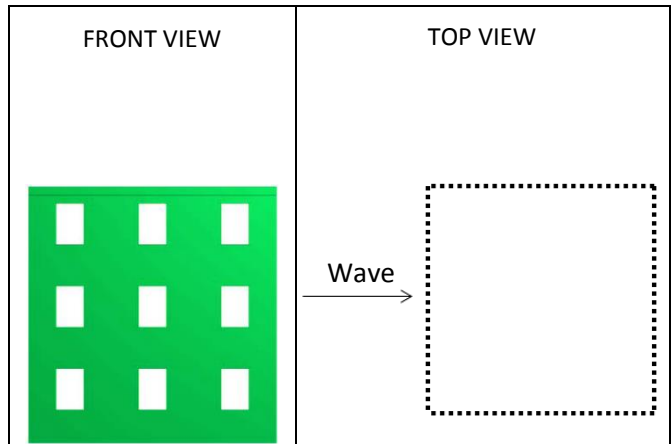


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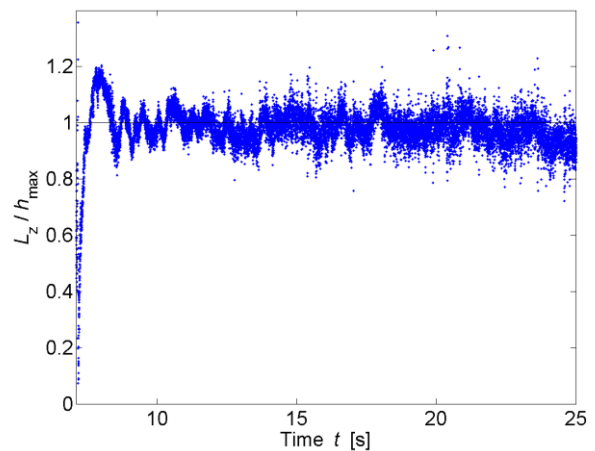
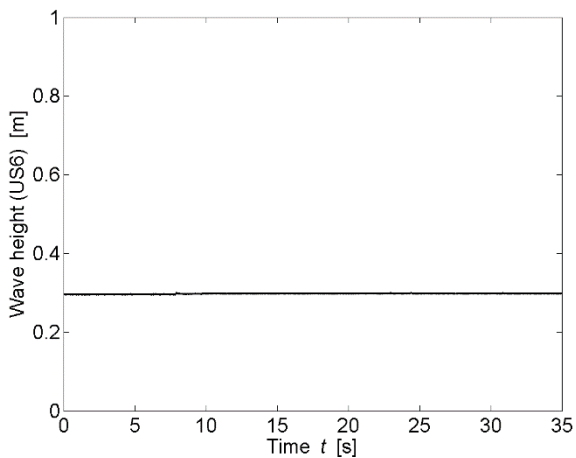
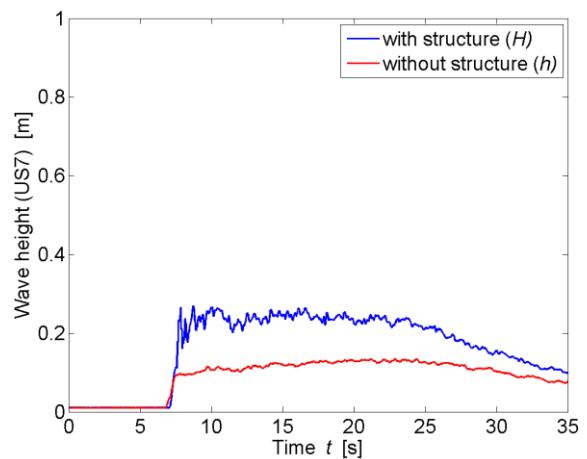
TEST PARAMETERS

Name	B17_0_WW1_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	13.545	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.085	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.269	[m]

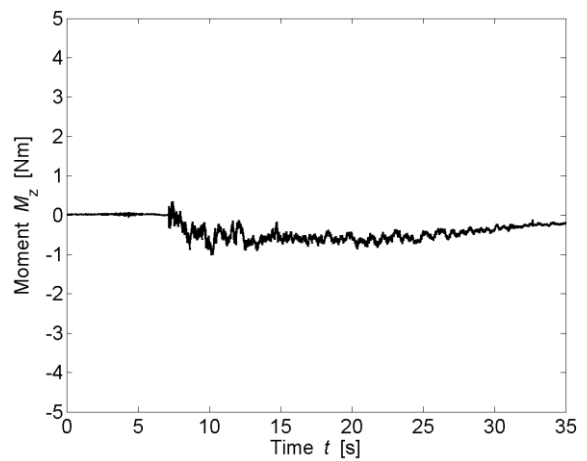
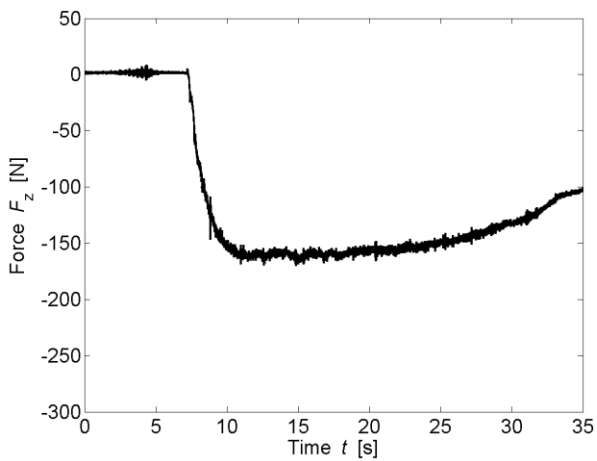
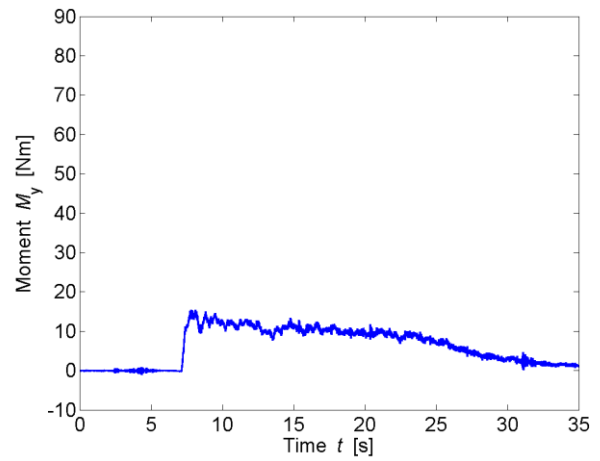
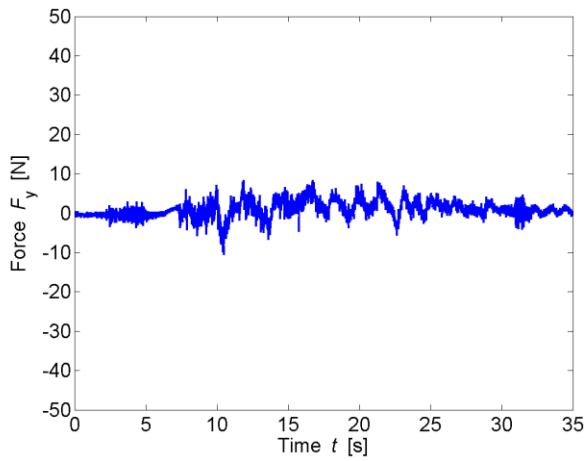
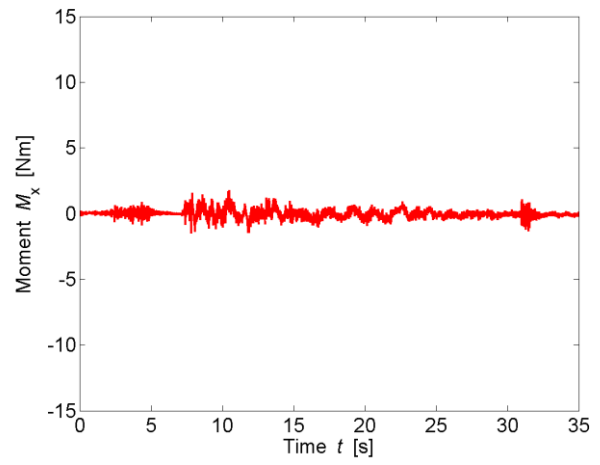
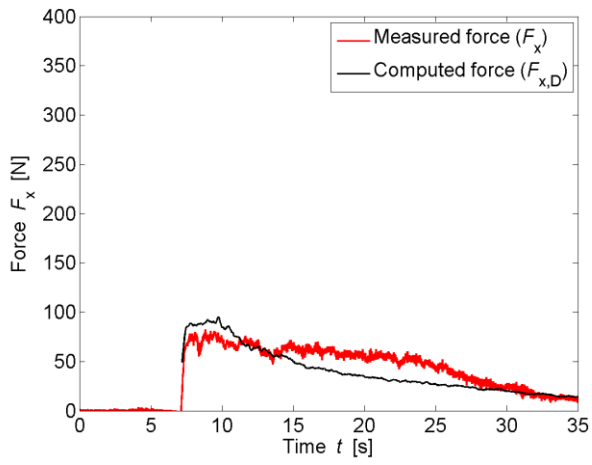


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.286	82.714	[N]
F_y	-10.568	8.398	[N]
F_z	-169.915	5.232	[N]
M_x	-1.504	1.777	[Nm]
M_y	-1.093	15.468	[Nm]
M_z	-1.009	0.352	[Nm]
Predicted Force	$F_{x,D,max}$	95.072	[N]
Initial time	t_0	7.158	[s]
Time to peak	τ_{max}	1.695	[s]
Total impulse	I_{tot}	1170.308	[Ns]
Peak Impulse	I_{peak}	111.404	[Ns]
Relative impulse	I^*	0.093	[-]
Wave height at $F_{x,max}$	h_M	0.722	[-]
Resistance coefficient	C_R	1.494	[-]

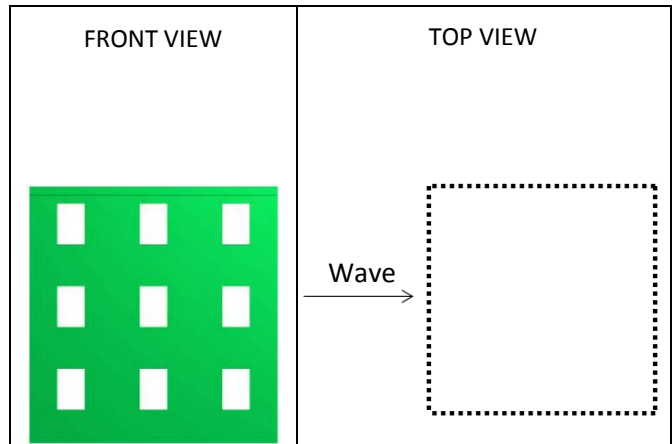


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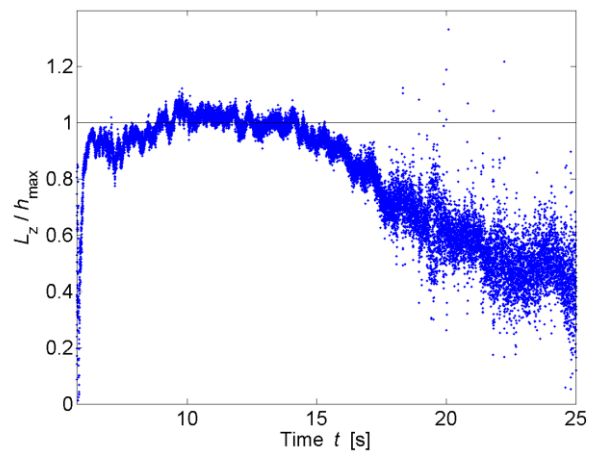
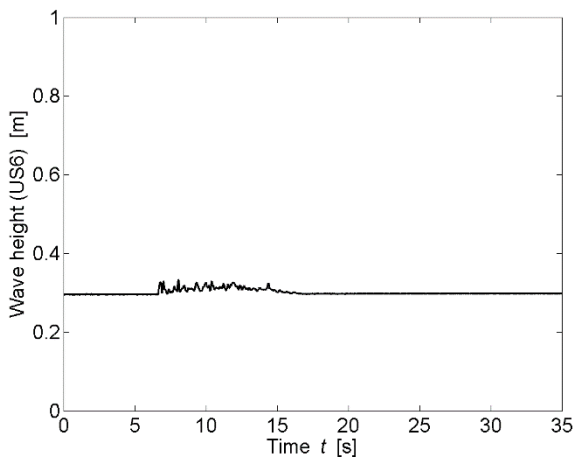
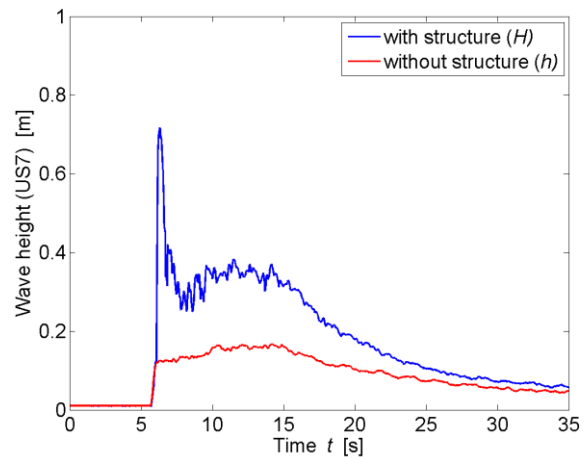
TEST PARAMETERS

Name	B17_0_WW1_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	17.38	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.702	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.718	[m]

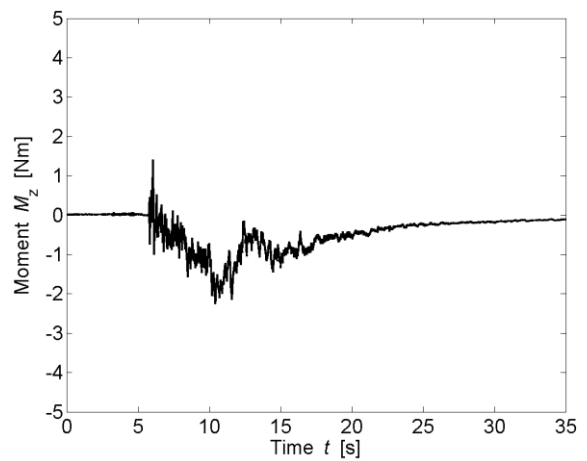
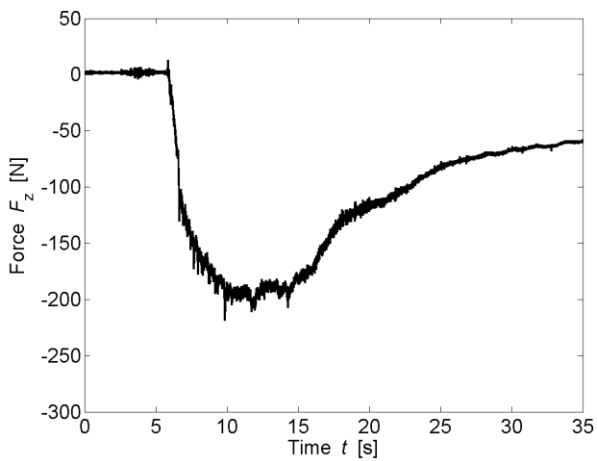
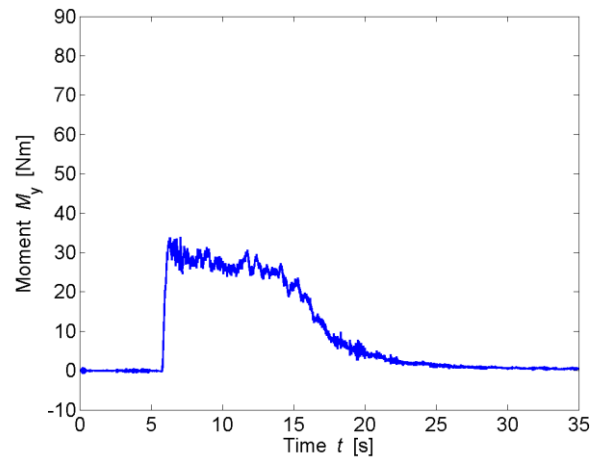
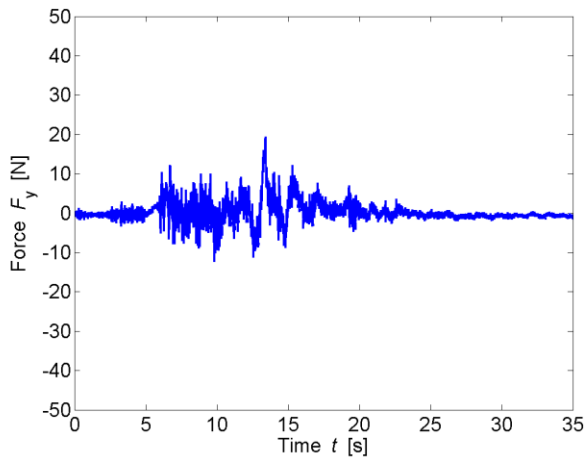
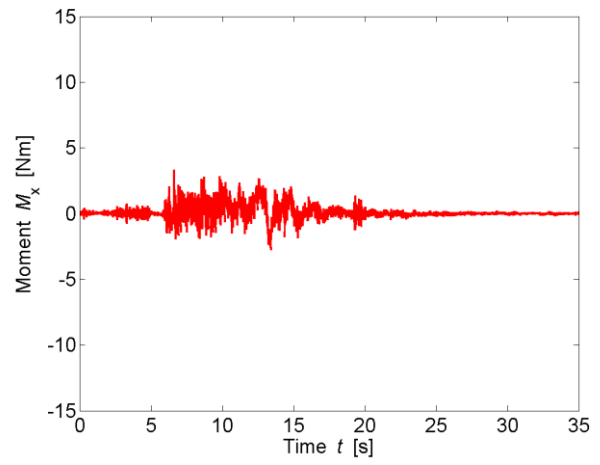
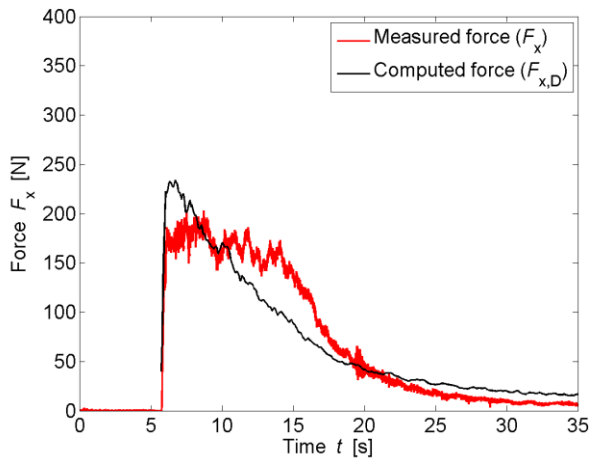


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.254	172.376	[N]
F_y	-12.354	19.460	[N]
F_z	-218.832	12.916	[N]
M_x	-2.752	3.335	[Nm]
M_y	-0.761	33.908	[Nm]
M_z	-2.249	1.410	[Nm]
Predicted Force	$F_{x,D,max}$	193.189	[N]
Initial time	t_0	5.782	[s]
Time to peak	τ_{max}	1.284	[s]
Total impulse	I_{tot}	1672.450	[Ns]
Peak Impulse	I_{peak}	176.945	[Ns]
Relative impulse	I^*	0.112	[-]
Wave height at $F_{x,max}$	h_M	0.743	[-]
Resistance coefficient	C_R	1.413	[-]

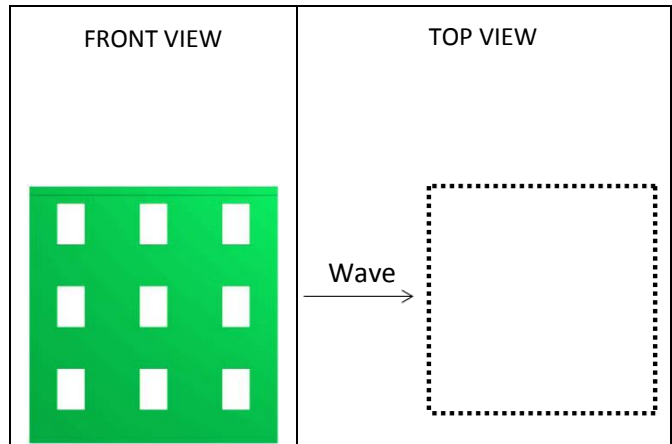


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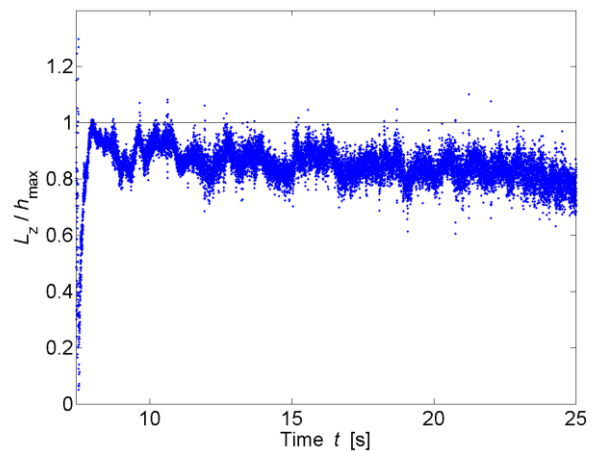
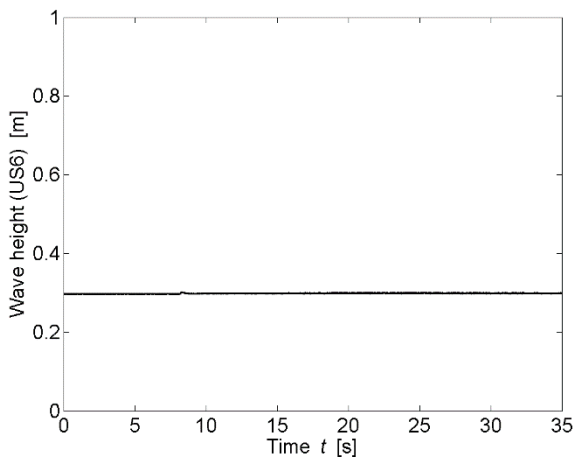
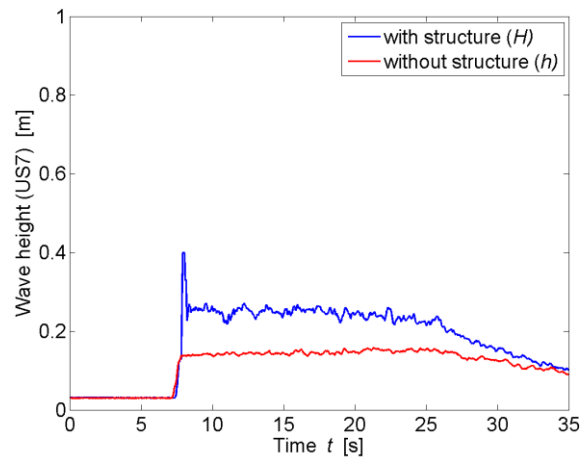
TEST PARAMETERS

Name	B17_0_WW3_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	16.33	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.973	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.400	[m]

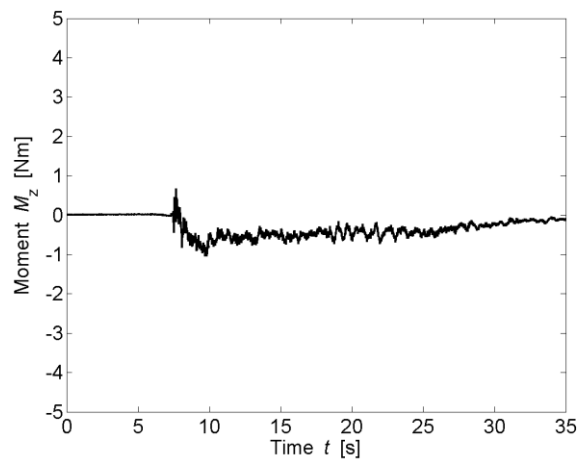
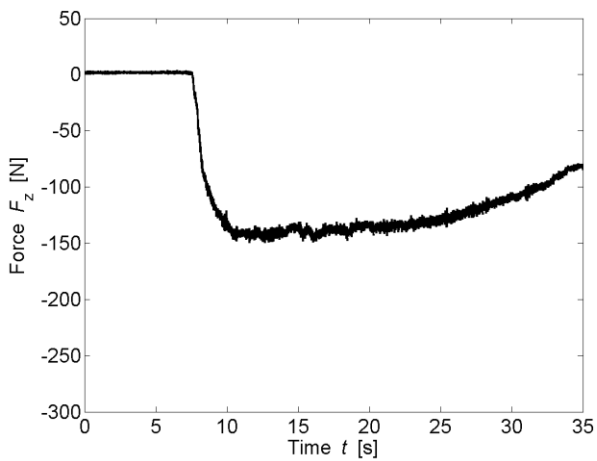
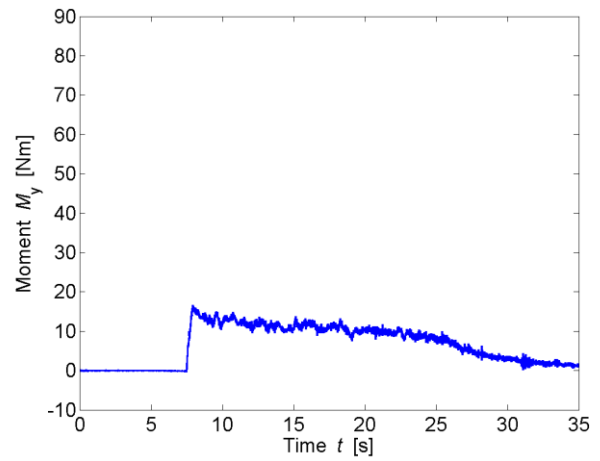
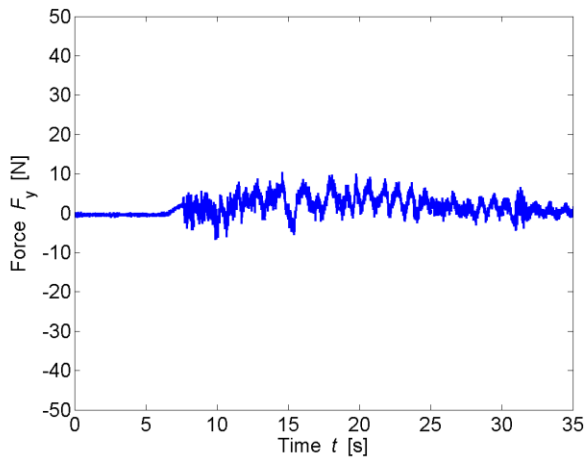
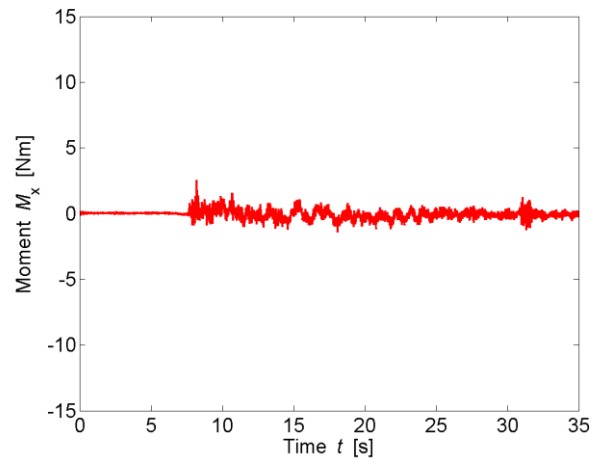
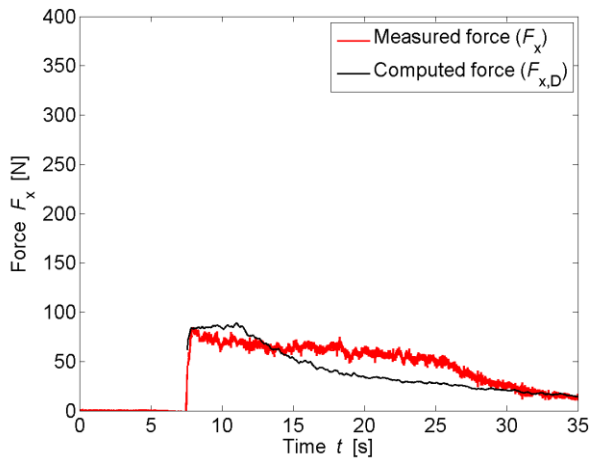


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.472	84.868	[N]
F_y	-6.701	10.356	[N]
F_z	-149.767	2.608	[N]
M_x	-1.415	2.569	[Nm]
M_y	-0.384	16.633	[Nm]
M_z	-1.047	0.677	[Nm]
Predicted Force	$F_{x,D,max}$	88.671	[N]
Initial time	t_0	7.473	[s]
Time to peak	τ_{max}	0.467	[s]
Total impulse	I_{tot}	1215.904	[Ns]
Peak Impulse	I_{peak}	24.596	[Ns]
Relative impulse	I^*	0.020	[-]
Wave height at $F_{x,max}$	h_M	0.866	[-]
Resistance coefficient	C_R	1.632	[-]

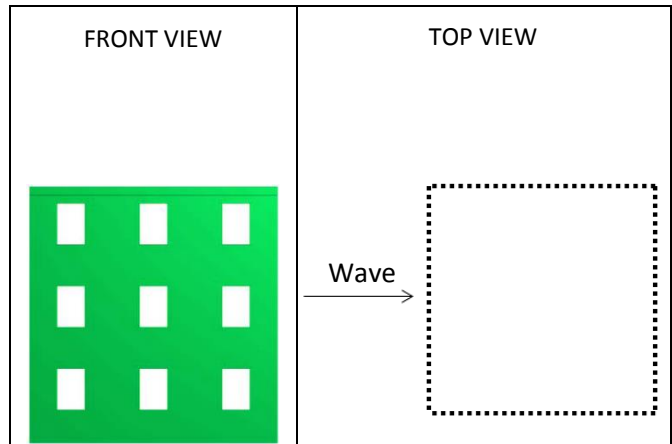


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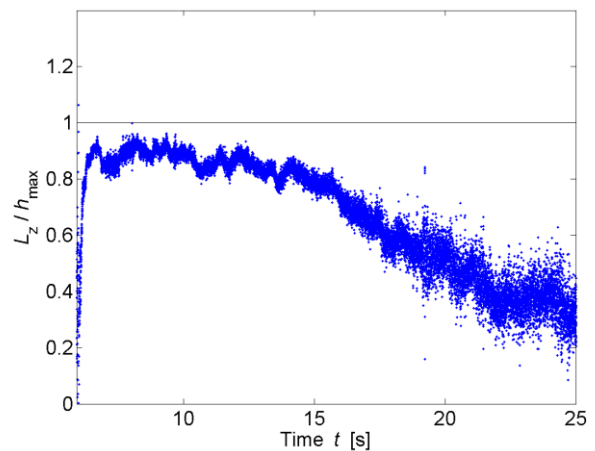
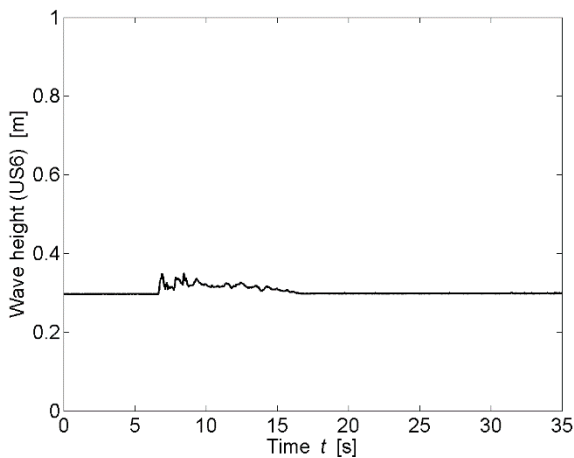
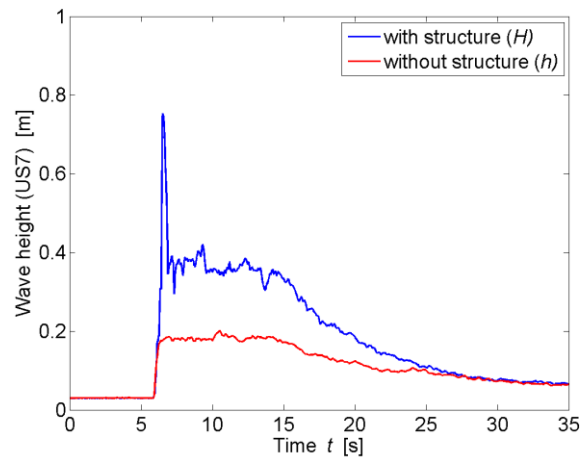
TEST PARAMETERS

Name	B17_0_WW3_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	17.25	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	3.052	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.753	[m]

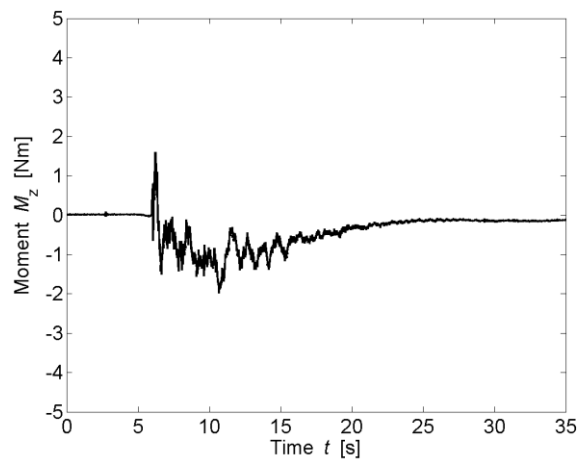
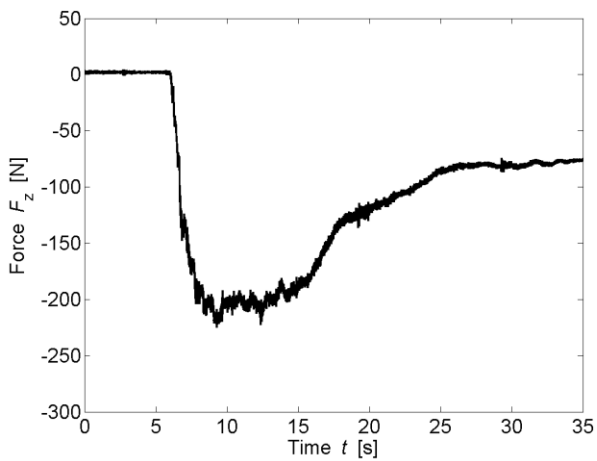
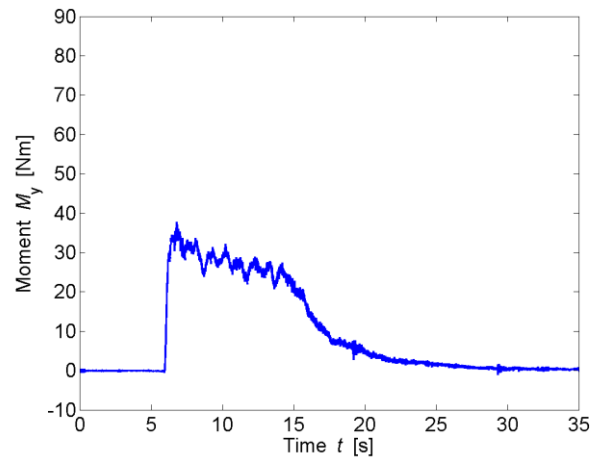
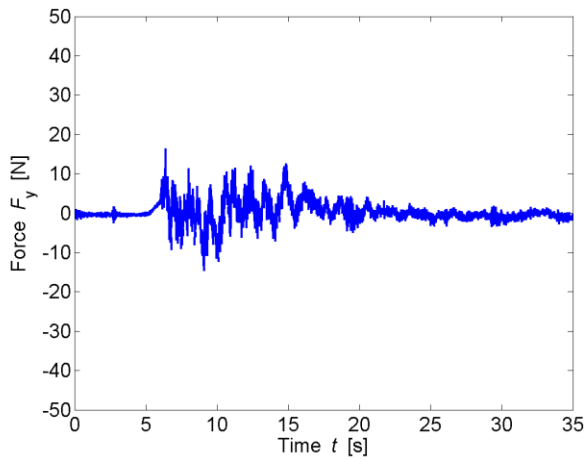
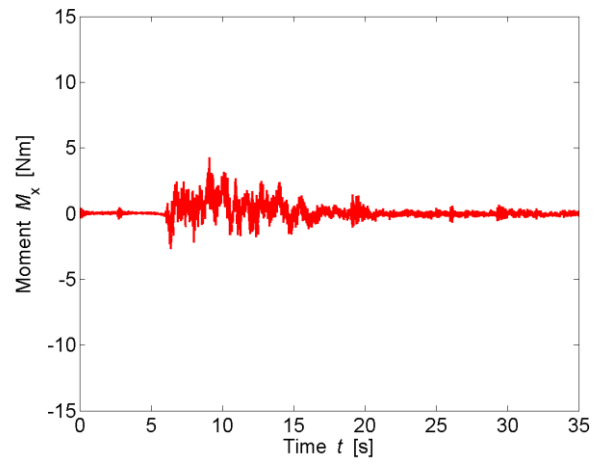
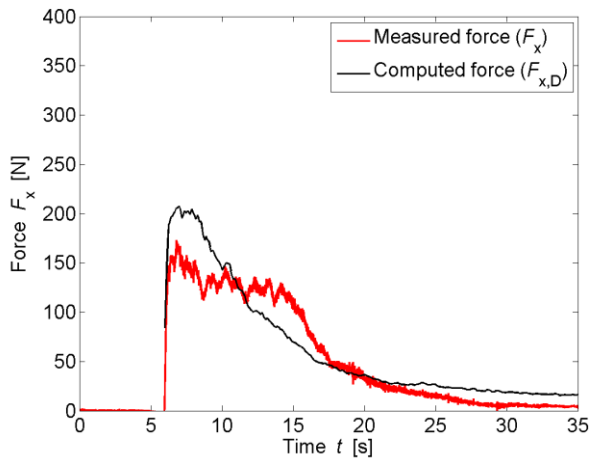


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.101	172.764	[N]
F_y	-14.679	16.401	[N]
F_z	-224.924	3.264	[N]
M_x	-2.690	4.284	[Nm]
M_y	-1.030	37.749	[Nm]
M_z	-1.985	1.604	[Nm]
Predicted Force	$F_{x,D,max}$	207.021	[N]
Initial time	t_0	5.949	[s]
Time to peak	τ_{max}	0.870	[s]
Total impulse	I_{tot}	1632.516	[Ns]
Peak Impulse	I_{peak}	110.650	[Ns]
Relative impulse	I^*	0.072	[-]
Wave height at $F_{x,max}$	h_M	0.917	[-]
Resistance coefficient	C_R	1.387	[-]

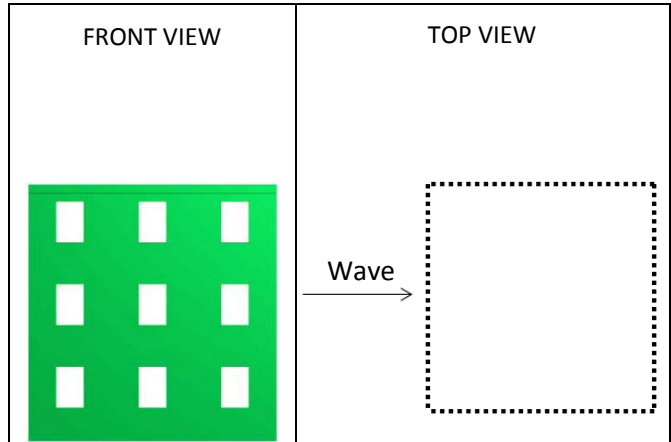


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TEST PARAMETERS

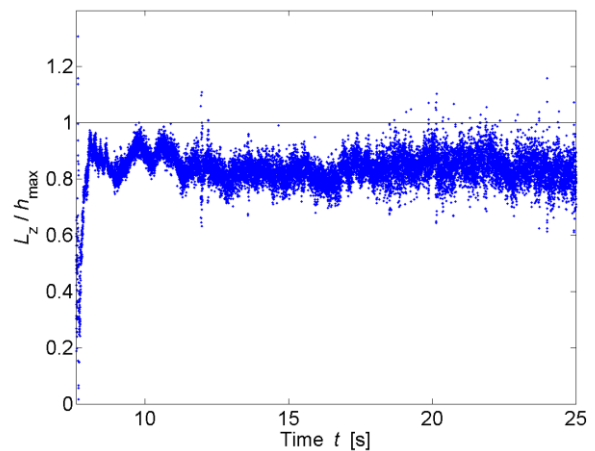
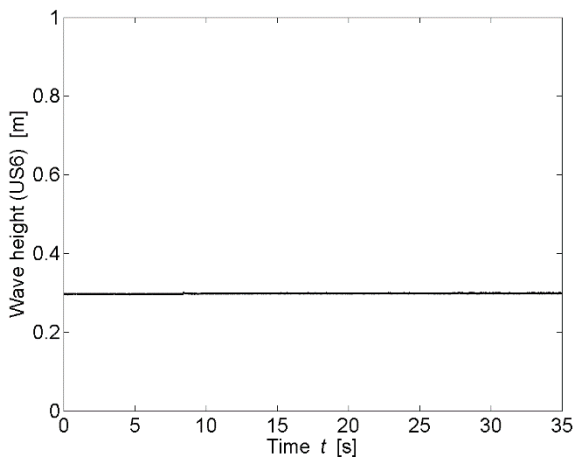
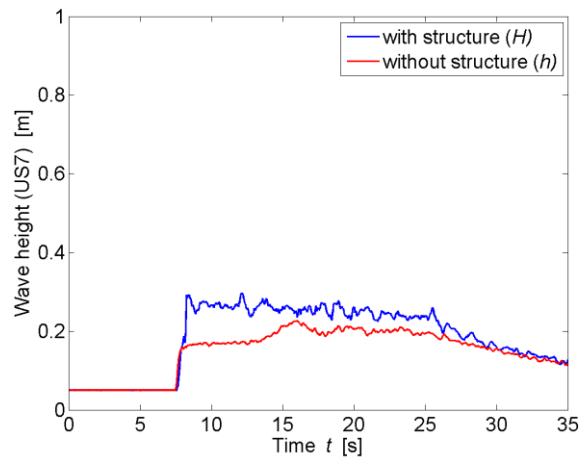
Name	B17_0_WW5_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	18.42	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.920	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.296	[m]

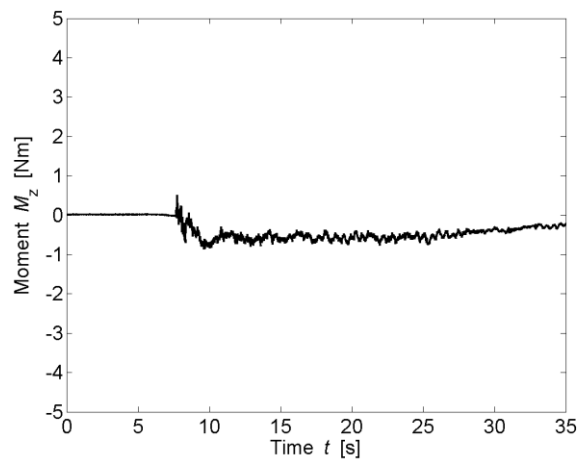
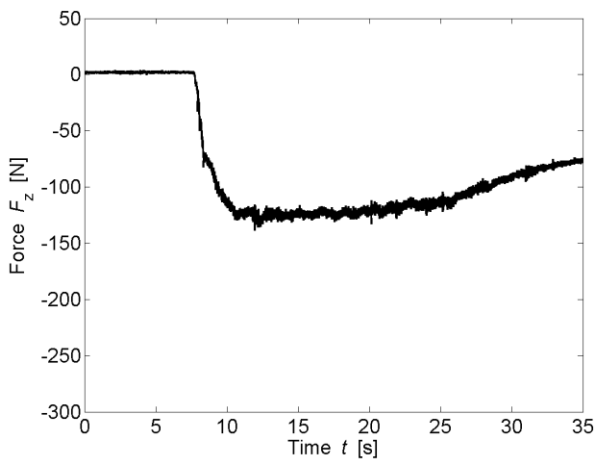
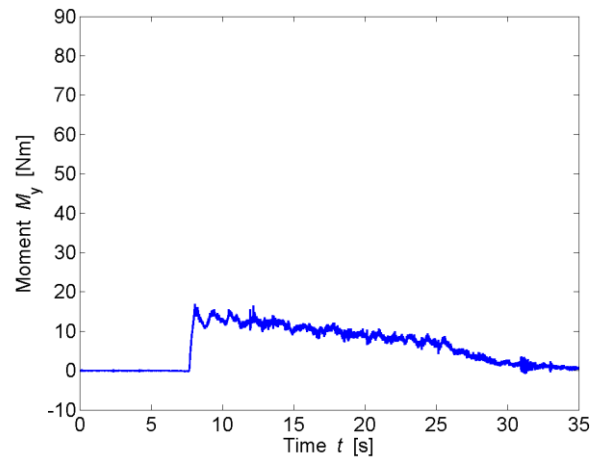
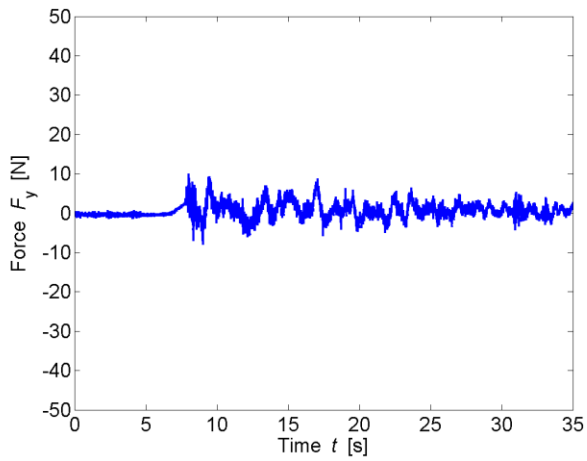
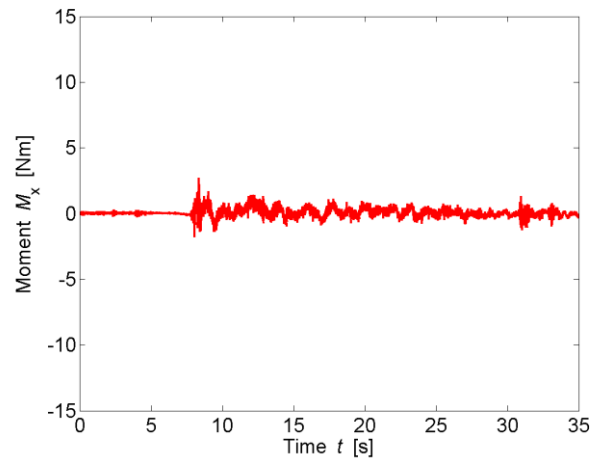
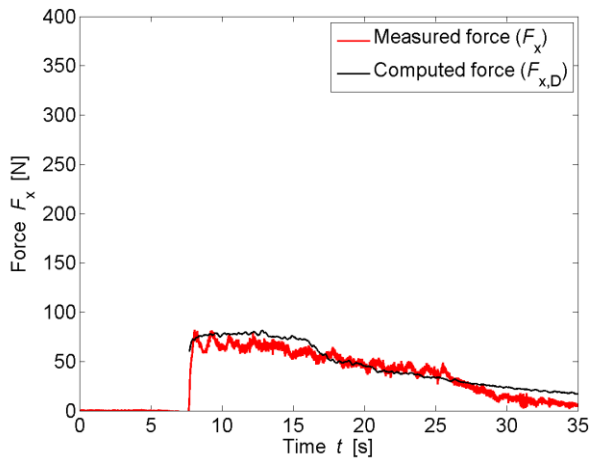


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.399	81.940	[N]
F_y	-7.925	10.038	[N]
F_z	-138.522	2.702	[N]
M_x	-1.796	2.725	[Nm]
M_y	-0.811	16.884	[Nm]
M_z	-0.865	0.514	[Nm]

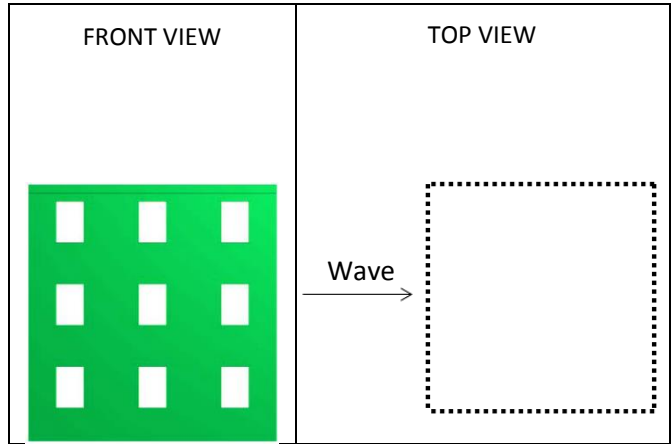
Predicted Force	$F_{x,D,max}$	81.380	[N]
Initial time	t_0	7.660	[s]
Time to peak	τ_{max}	0.436	[s]
Total impulse	I_{tot}	1055.396	[Ns]
Peak Impulse	I_{peak}	21.149	[Ns]
Relative impulse	I^*	0.020	[-]
Wave height at $F_{x,max}$	h_M	0.689	[-]
Resistance coefficient	C_R	1.538	[-]





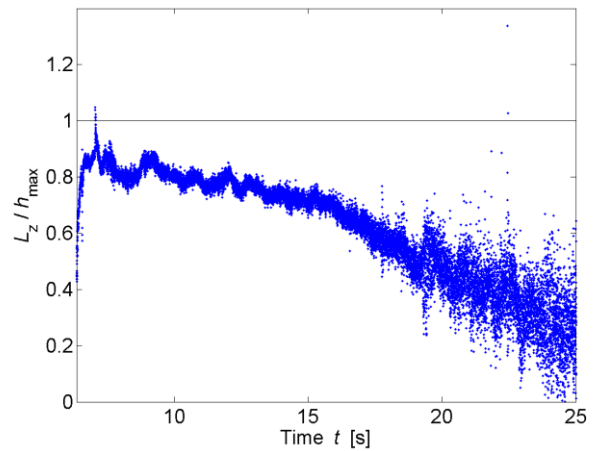
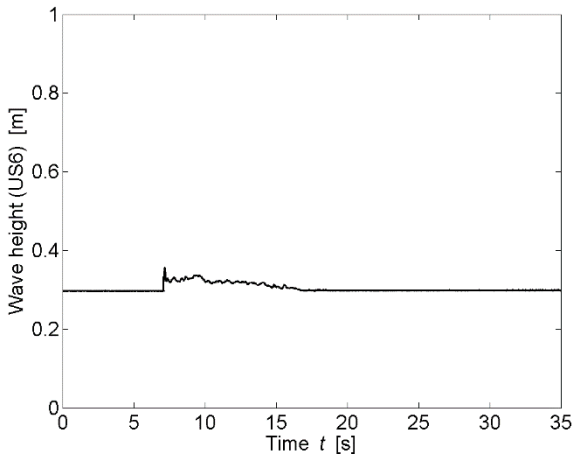
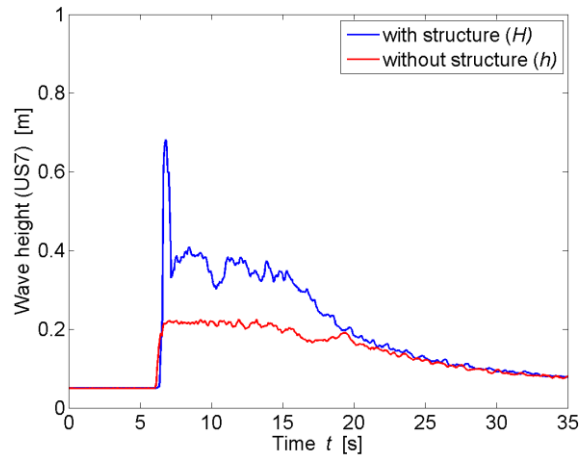
TEST PARAMETERS

Name	B17_0_WW5_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	15.27	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.415	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.682	[m]

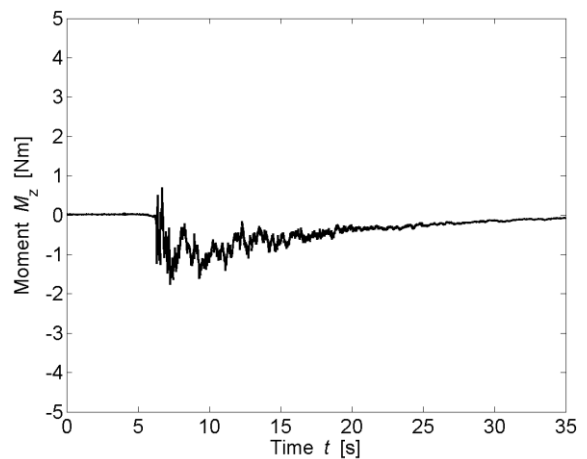
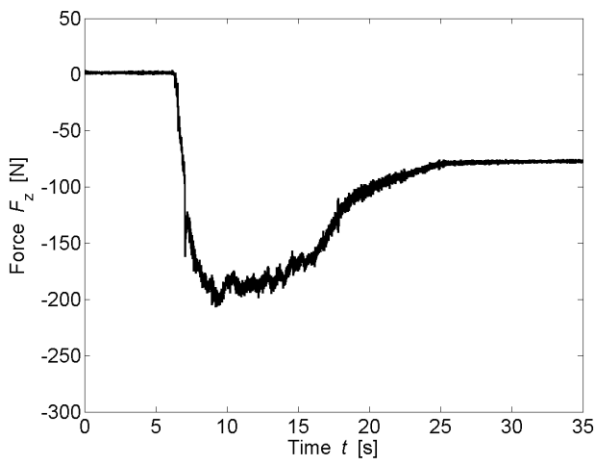
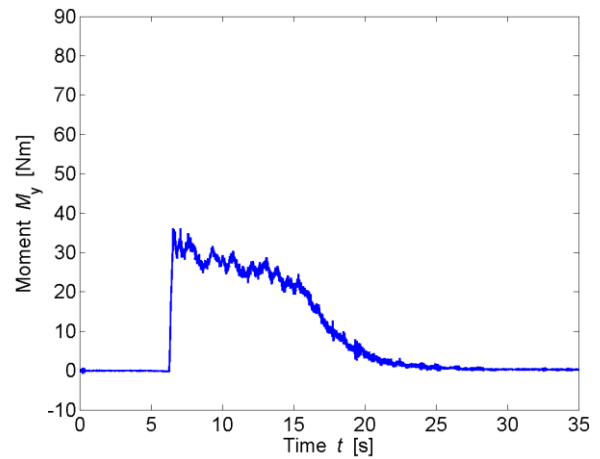
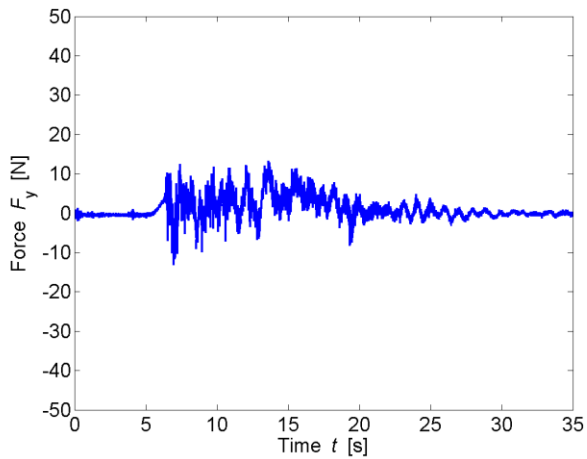
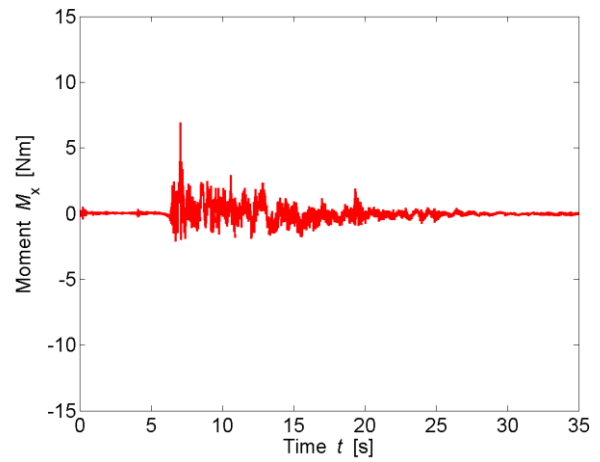
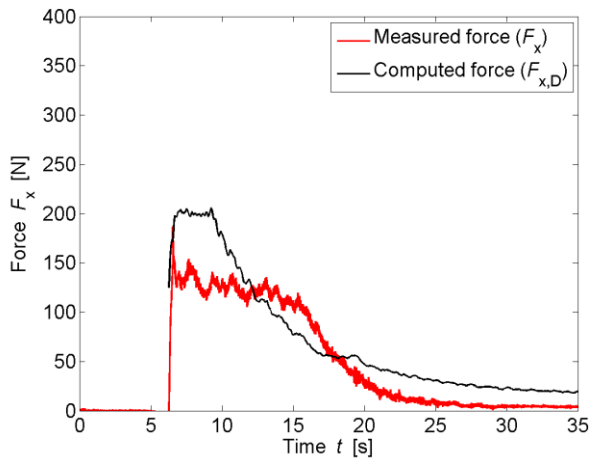


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.835	186.481	[N]
F_y	-13.137	13.244	[N]
F_z	-206.650	0.000	[N]
M_x	-2.116	6.947	[Nm]
M_y	-0.766	36.166	[Nm]
M_z	-1.770	0.706	[Nm]
Predicted Force	$F_{x,D,max}$	205.756	[N]
Initial time	t_0	6.404	[s]
Time to peak	τ_{max}	0.154	[s]
Total impulse	I_{tot}	1518.177	[Ns]
Peak Impulse	I_{peak}	18.949	[Ns]
Relative impulse	I^*	0.013	[-]
Wave height at $F_{x,max}$	h_M	0.828	[-]
Resistance coefficient	C_R	1.452	[-]

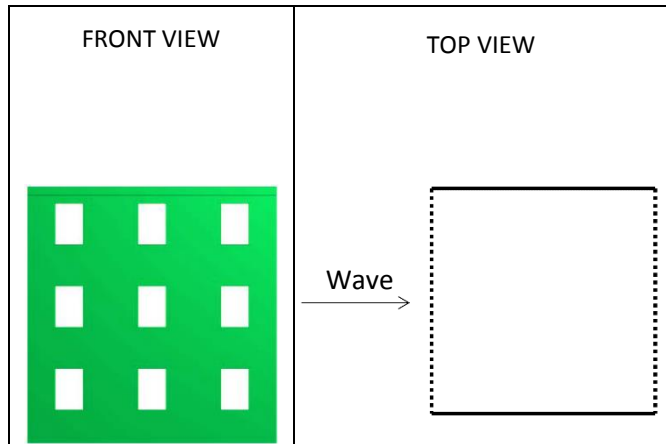


* All parameters are presented and defined at the beginning of the Appendix



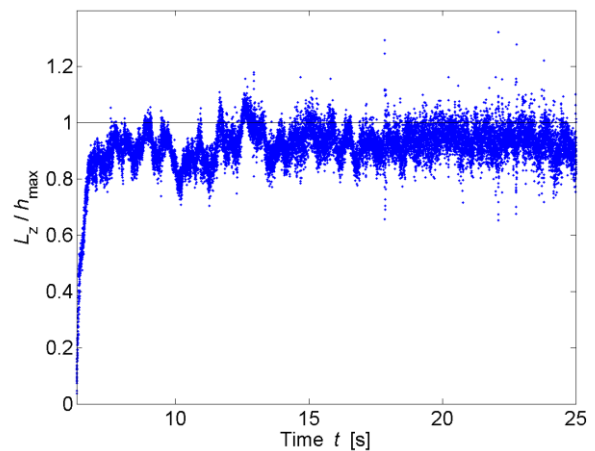
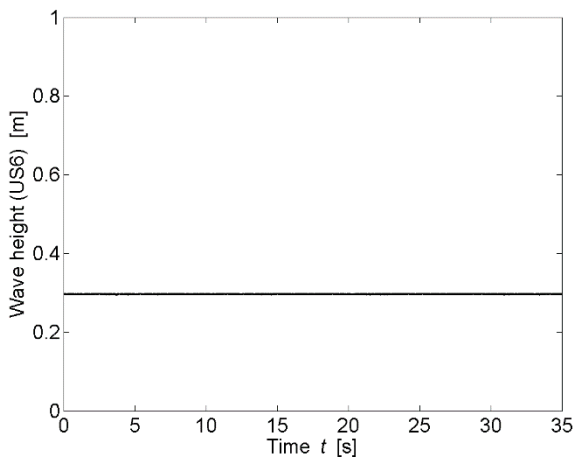
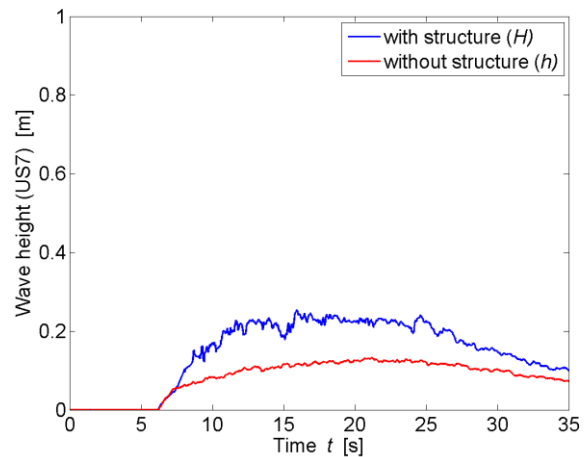
TEST PARAMETERS

Name	B17_F_WD1_1		
Repetitions	4		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	13.31	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.355	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.254	[m]

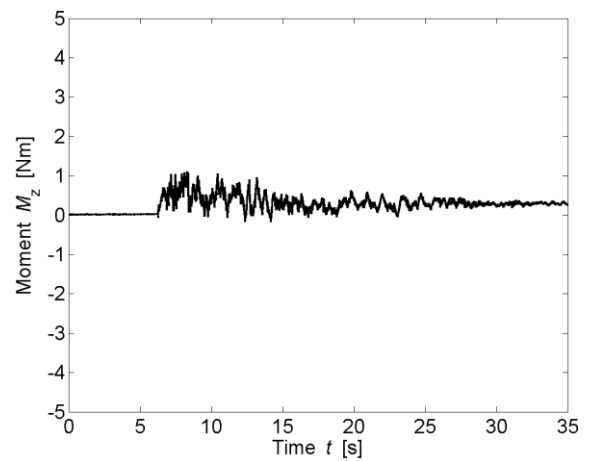
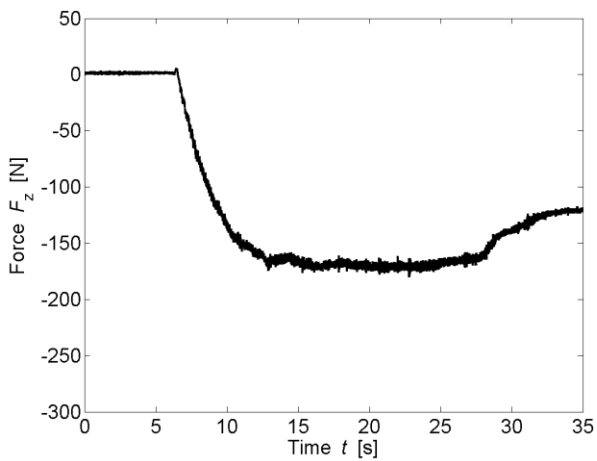
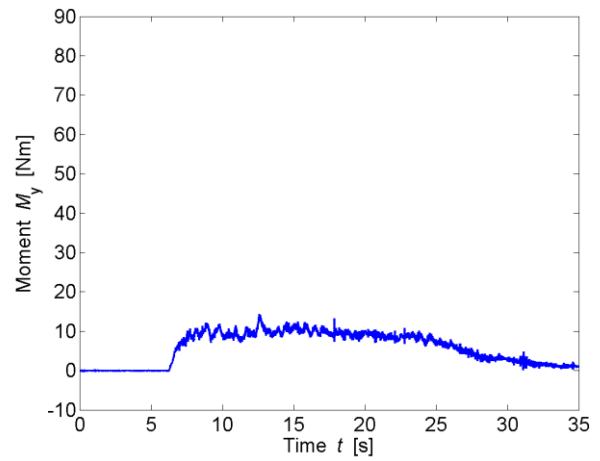
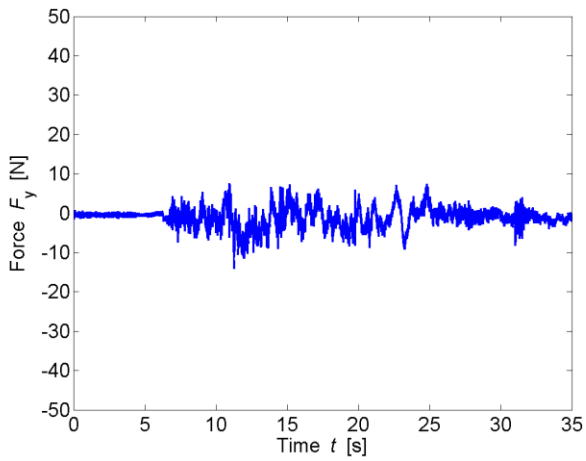
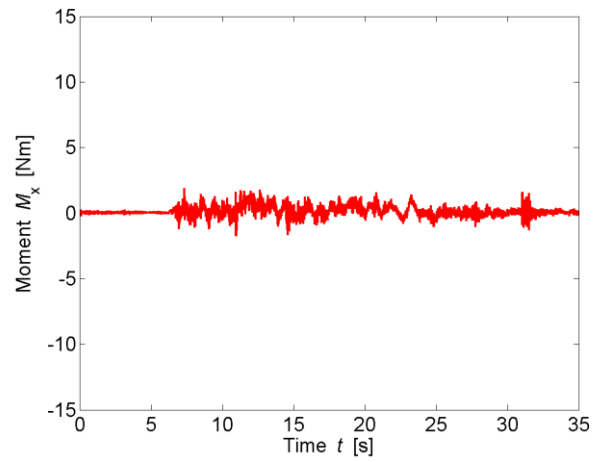
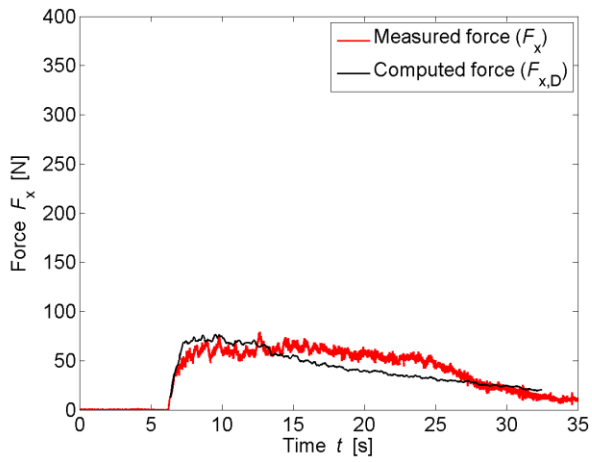


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.367	79.303	[N]
F_y	-14.092	7.517	[N]
F_z	-180.223	5.701	[N]
M_x	-1.736	1.889	[Nm]
M_y	-1.122	14.265	[Nm]
M_z	-0.176	1.112	[Nm]
Predicted Force	$F_{x,D,max}$	76.561	[N]
Initial time	t_0	6.350	[s]
Time to peak	τ_{max}	6.305	[s]
Total impulse	I_{tot}	1128.602	[Ns]
Peak Impulse	I_{peak}	350.822	[Ns]
Relative impulse	I^*	0.302	[-]
Wave height at $F_{x,max}$	h_M	0.772	[-]
Resistance coefficient	C_R	2.051	[-]

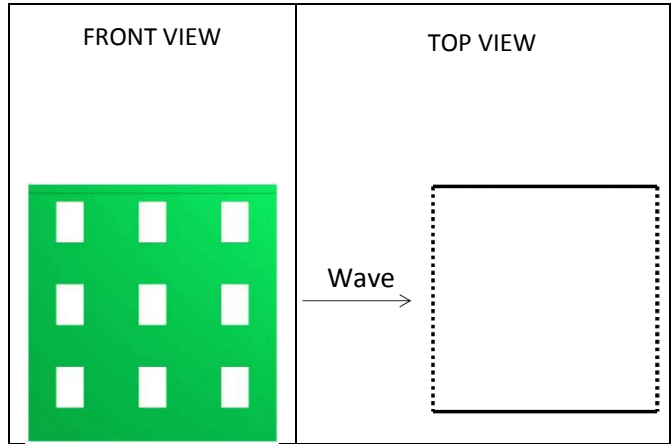


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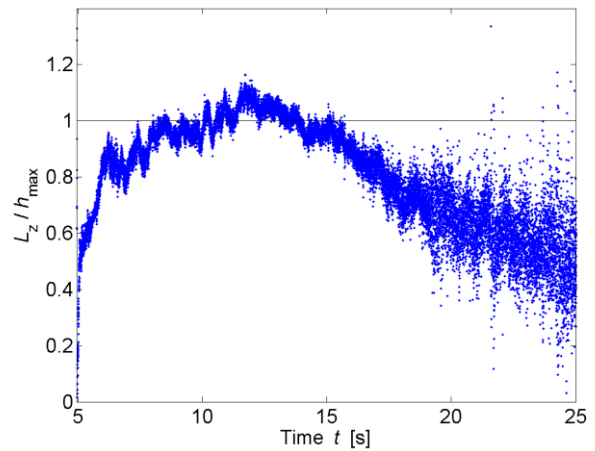
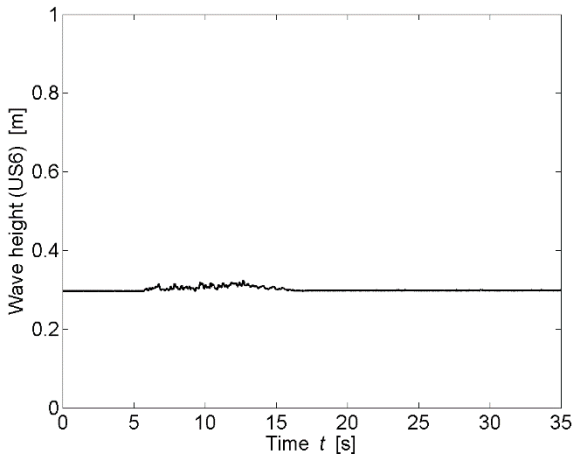
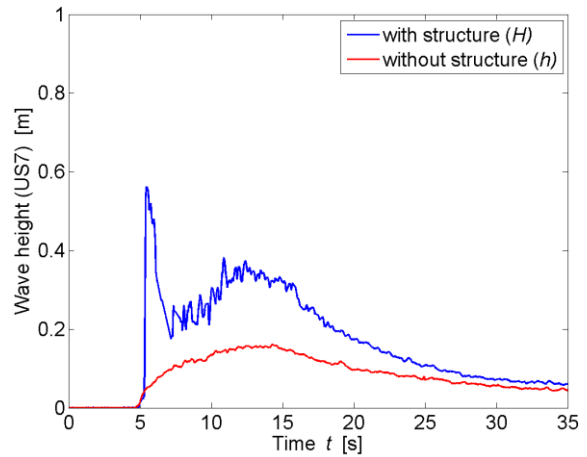
TEST PARAMETERS

Name	B17_F_WD2_1		
Repetitions	4		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	16.68	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.082	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.573	[m]

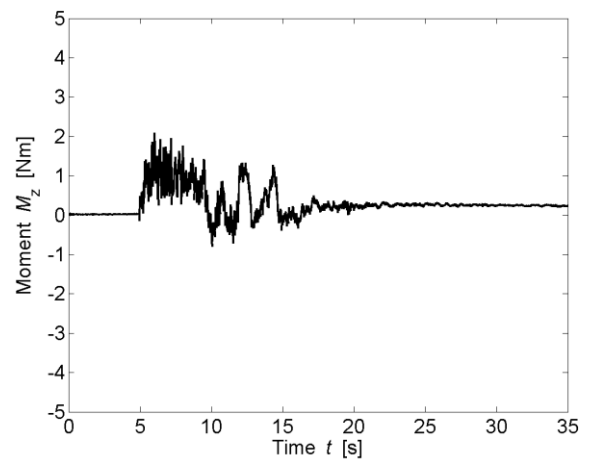
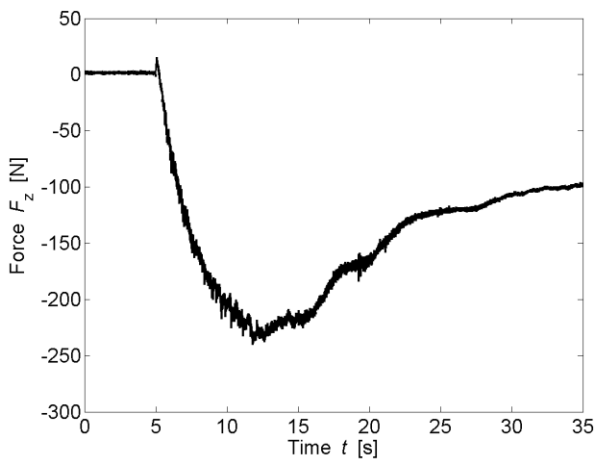
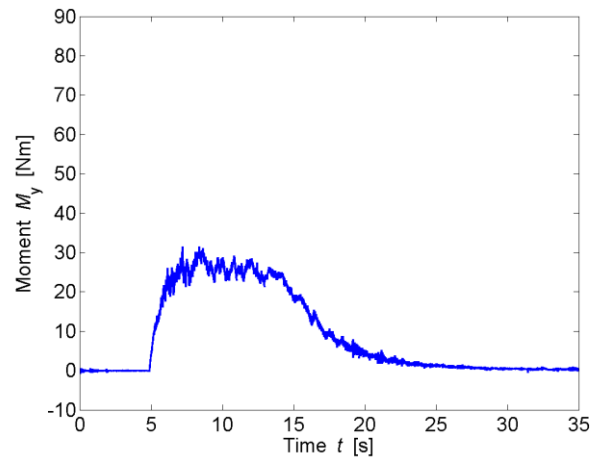
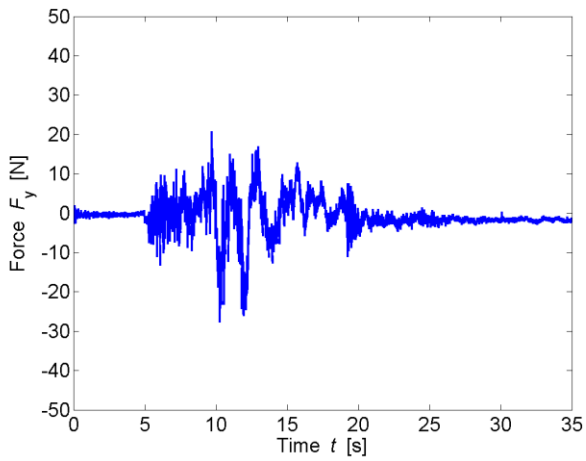
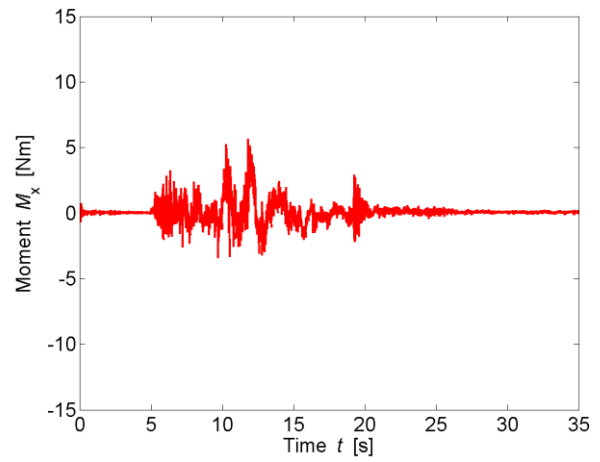
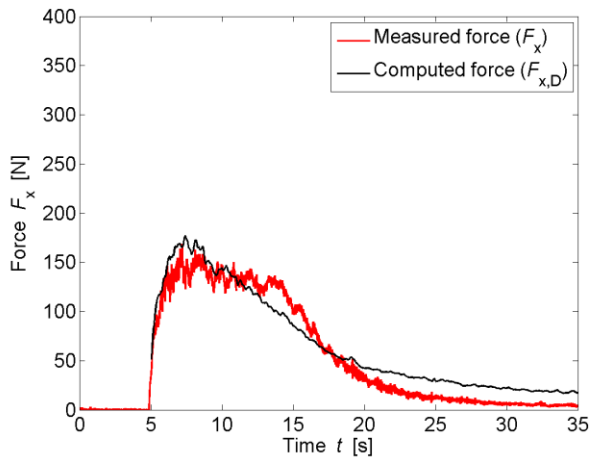


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.375	150.699	[N]
F_y	-27.674	20.732	[N]
F_z	-240.199	15.446	[N]
M_x	-3.409	5.641	[Nm]
M_y	-0.860	28.885	[Nm]
M_z	-0.793	2.087	[Nm]
Predicted Force	$F_{x,D,max}$	176.948	[N]
Initial time	t_0	4.995	[s]
Time to peak	τ_{max}	2.253	[s]
Total impulse	I_{tot}	1602.203	[Ns]
Peak Impulse	I_{peak}	238.404	[Ns]
Relative impulse	I^*	0.156	[-]
Wave height at $F_{x,max}$	h_M	0.608	[-]
Resistance coefficient	C_R	1.432	[-]

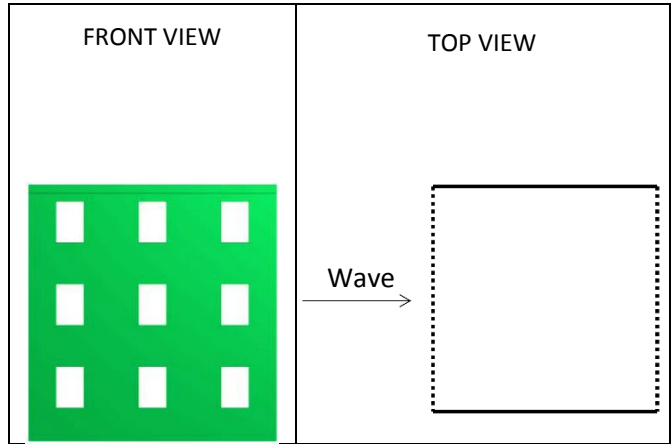


* All parameters are presented and defined at the beginning of the Appendix



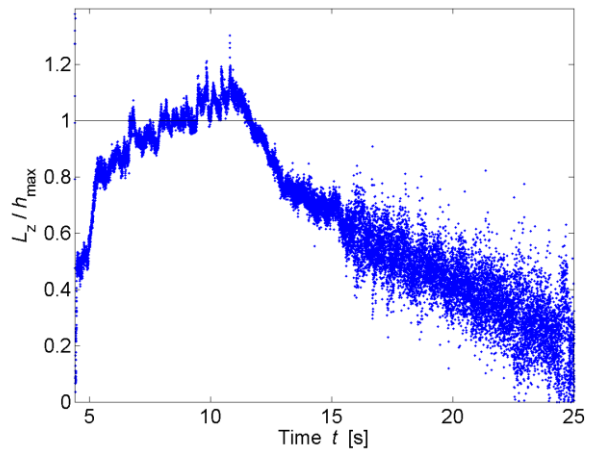
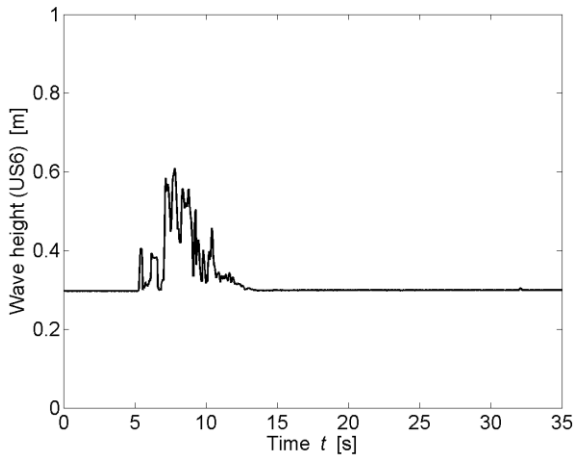
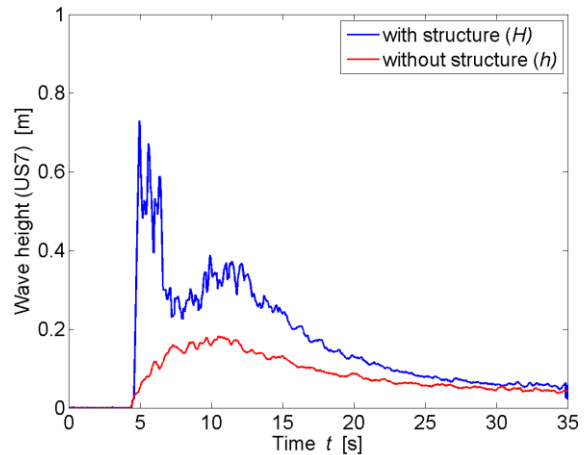
TEST PARAMETERS

Name	B17_F_WD3_1		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	18.808	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.566	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.730	[m]

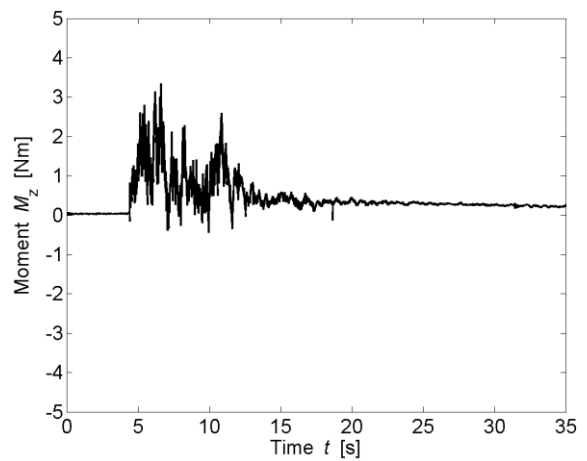
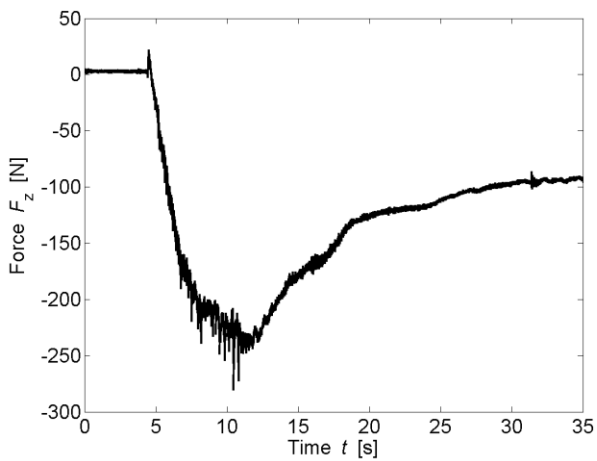
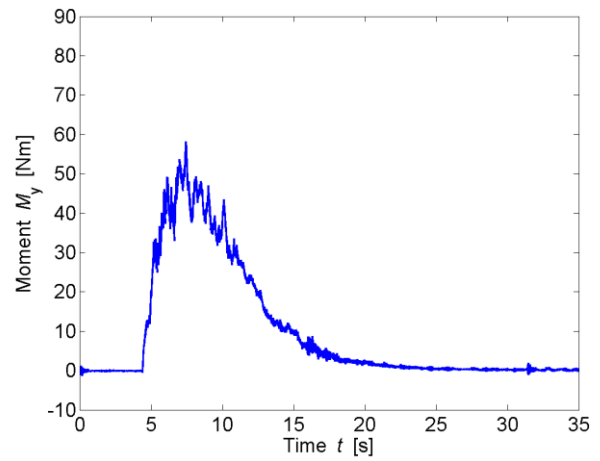
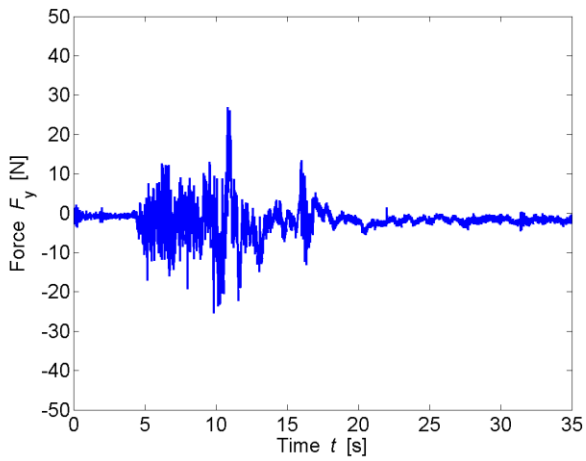
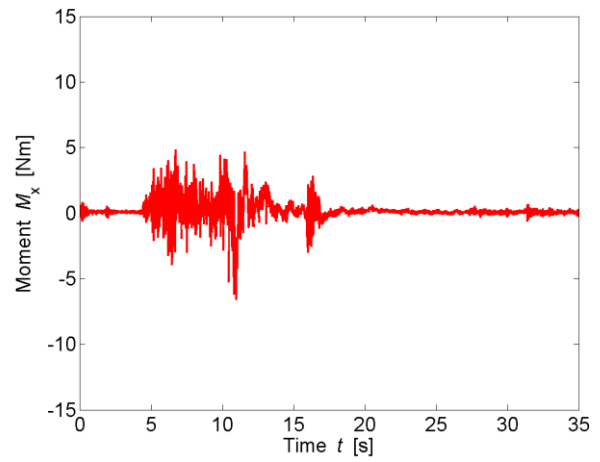
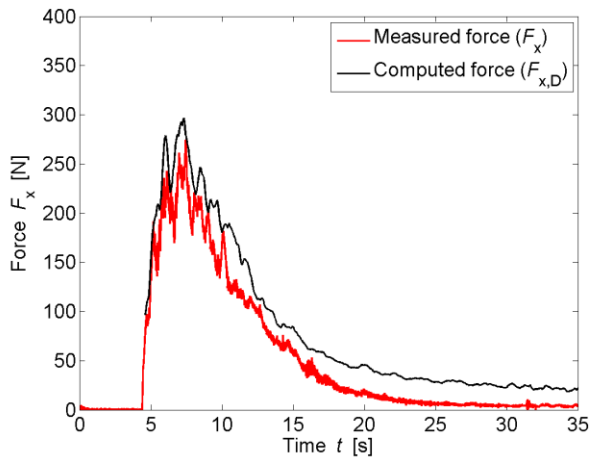


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.734	274.494	[N]
F_y	-25.394	26.879	[N]
F_z	-280.791	22.271	[N]
M_x	-6.609	4.825	[Nm]
M_y	-1.381	58.142	[Nm]
M_z	-0.445	3.350	[Nm]
Predicted Force	$F_{x,D,max}$	296.634	[N]
Initial time	t_0	4.450	[s]
Time to peak	τ_{max}	3.006	[s]
Total impulse	I_{tot}	1757.064	[Ns]
Peak Impulse	I_{peak}	543.984	[Ns]
Relative impulse	I^*	0.329	[-]
Wave height at $F_{x,max}$	h_M	0.855	[-]
Resistance coefficient	C_R	1.464	[-]

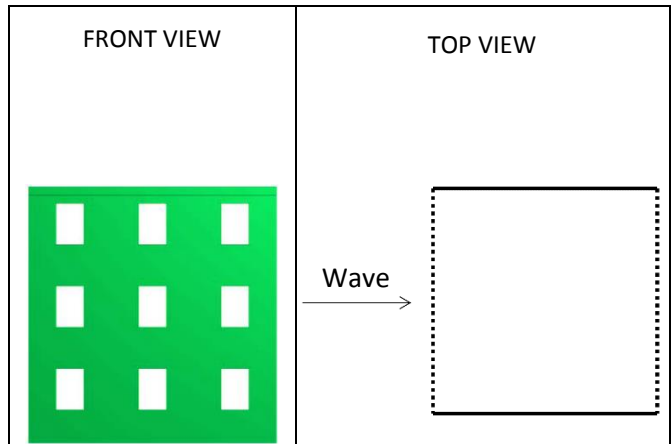


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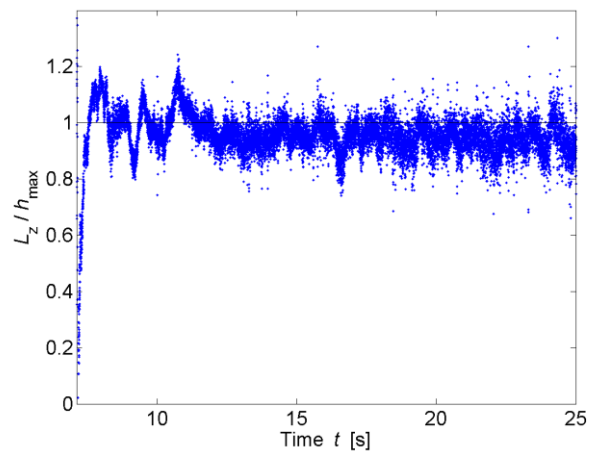
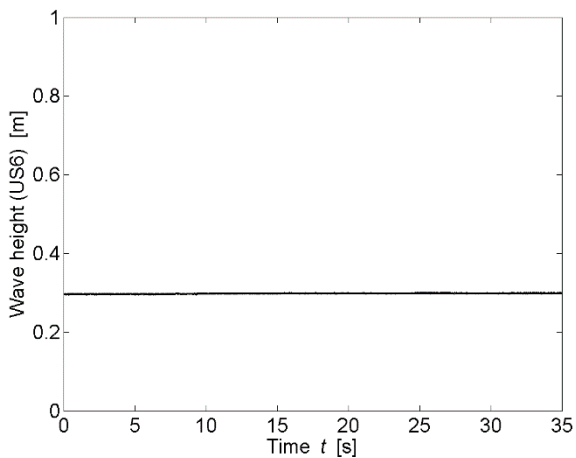
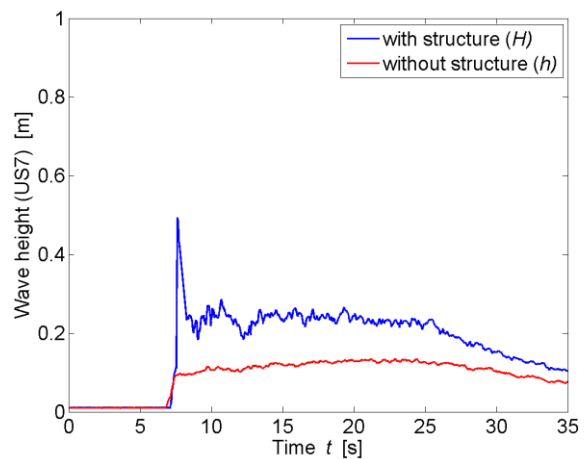
TEST PARAMETERS

Name	B17_F_WW1_1P_1		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	13.545	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.110	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.494	[m]

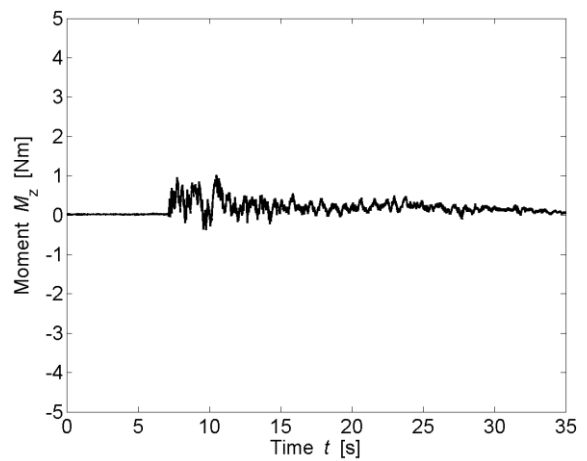
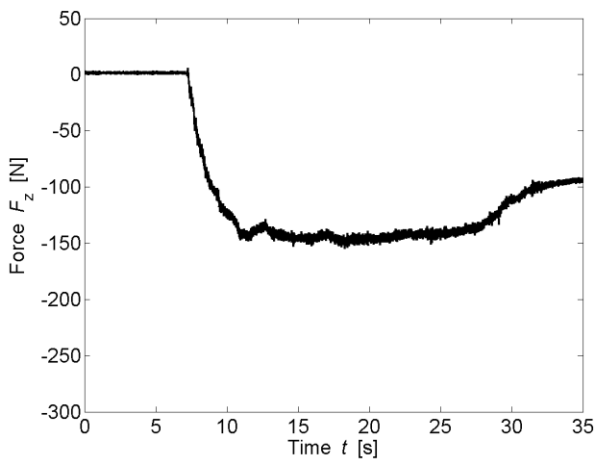
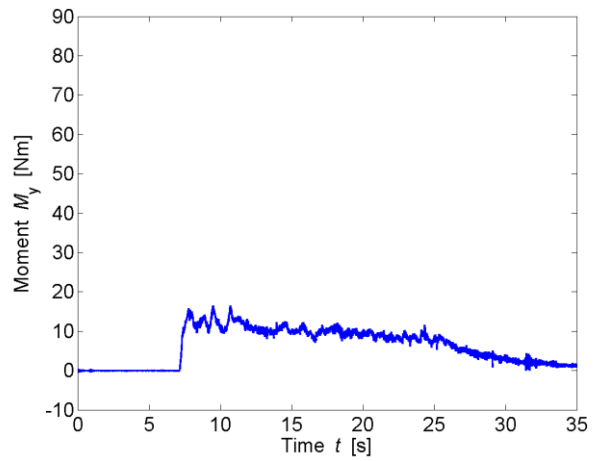
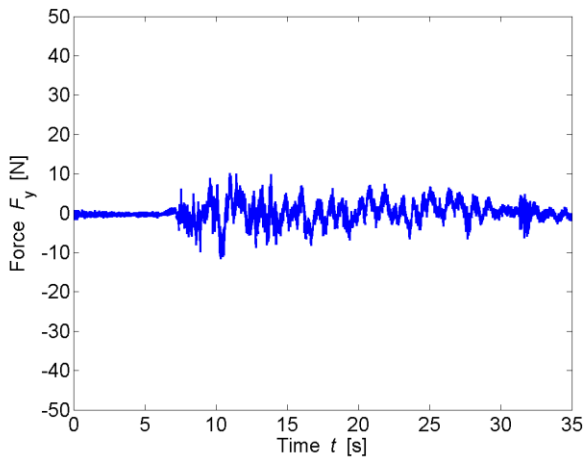
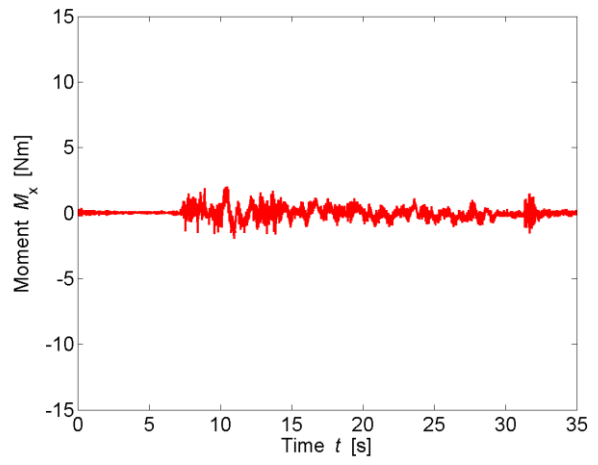
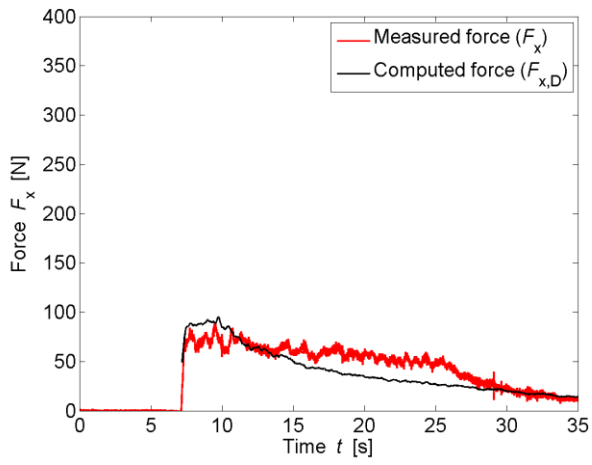


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.254	88.037	[N]
F_y	-11.669	10.209	[N]
F_z	-154.827	5.982	[N]
M_x	-1.924	2.027	[Nm]
M_y	-0.842	16.468	[Nm]
M_z	-0.376	1.009	[Nm]
Predicted Force	$F_{x,D,max}$	95.072	[N]
Initial time	t_0	7.167	[s]
Time to peak	τ_{max}	2.366	[s]
Total impulse	I_{tot}	1174.995	[Ns]
Peak Impulse	I_{peak}	161.831	[Ns]
Relative impulse	I^*	0.134	[-]
Wave height at $F_{x,max}$	h_M	0.775	[-]
Resistance coefficient	C_R	1.591	[-]

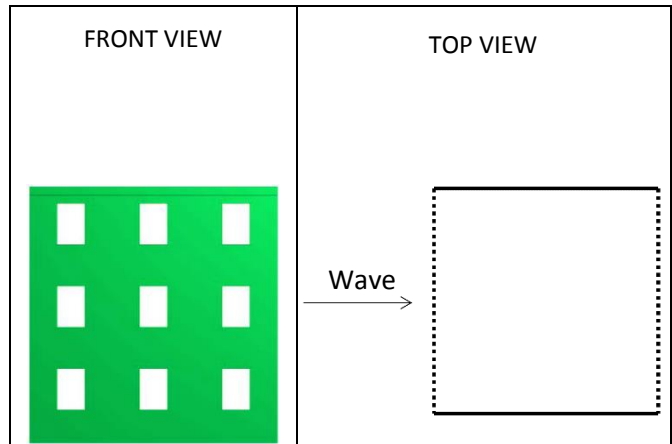


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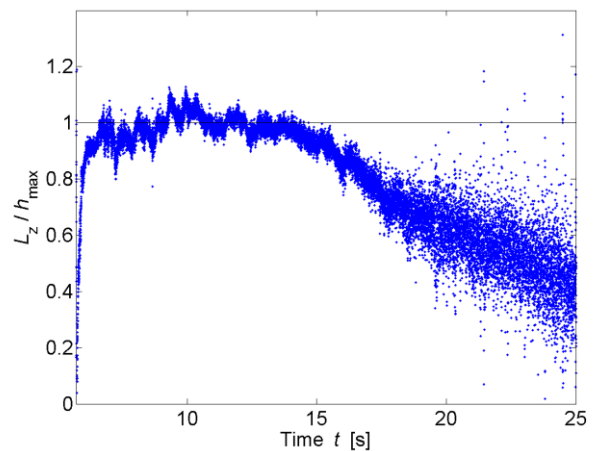
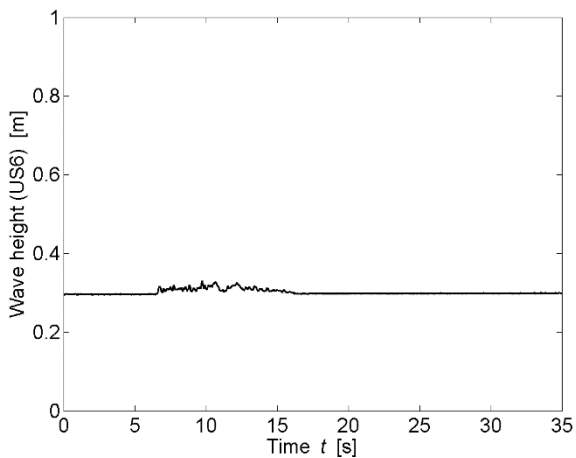
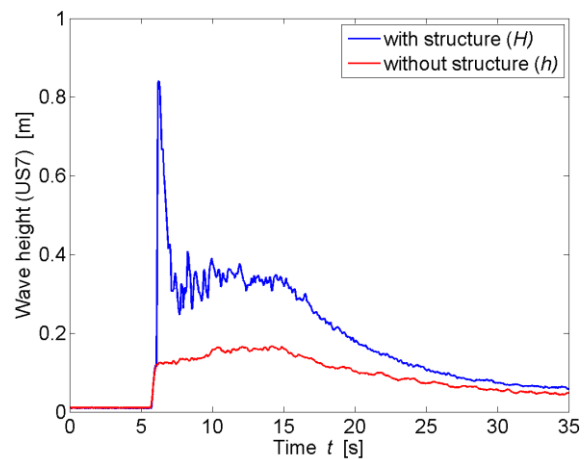
TEST PARAMETERS

Name	B17_F_WW1_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	17.38	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.681	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.842	[m]

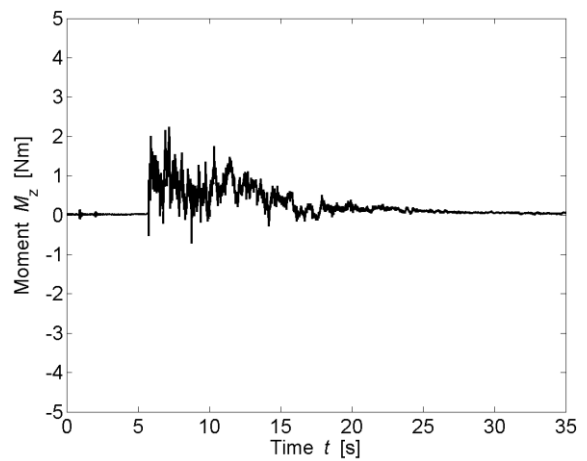
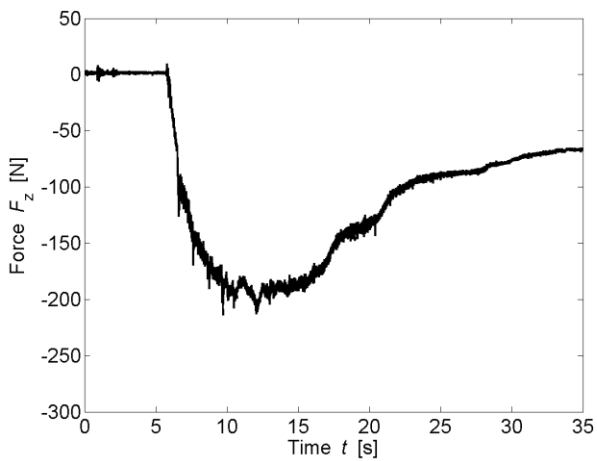
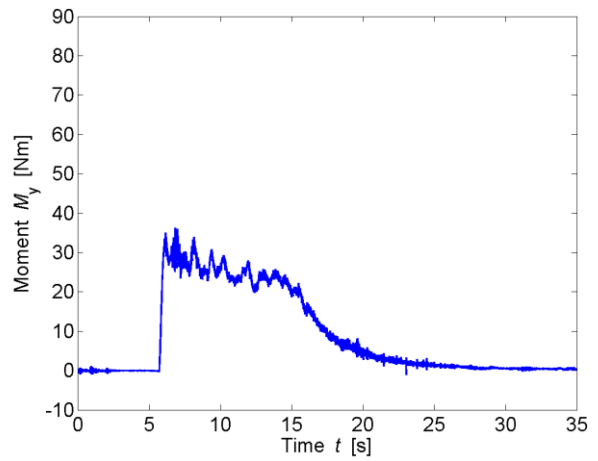
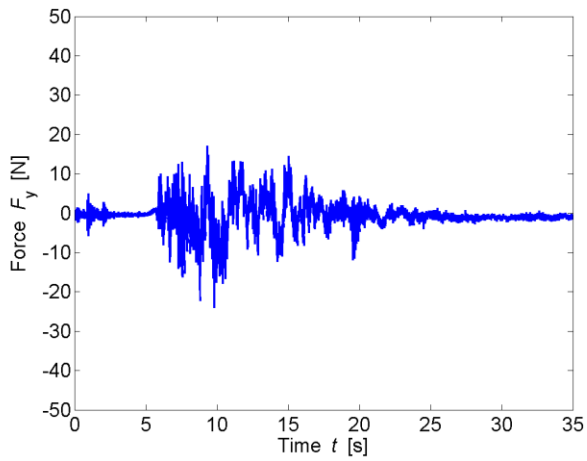
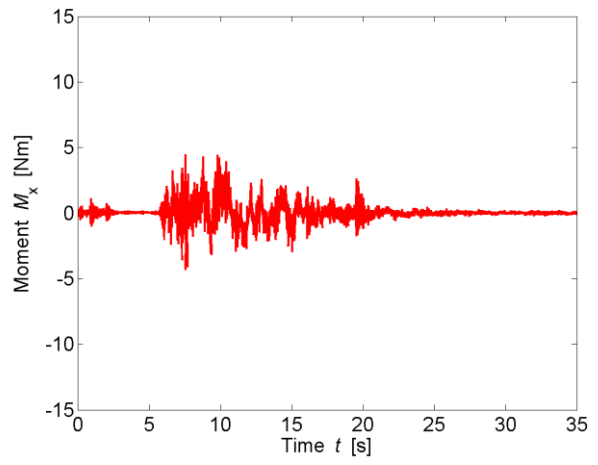
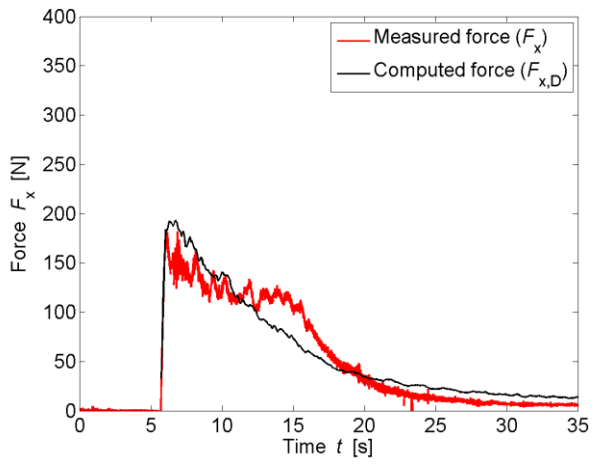


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.222	181.619	[N]
F_y	-24.052	17.159	[N]
F_z	-214.147	9.917	[N]
M_x	-4.323	4.463	[Nm]
M_y	-1.132	36.287	[Nm]
M_z	-0.722	2.235	[Nm]
Predicted Force	$F_{x,D,max}$	193.189	[N]
Initial time	t_0	5.780	[s]
Time to peak	τ_{max}	1.081	[s]
Total impulse	I_{tot}	1635.080	[Ns]
Peak Impulse	I_{peak}	156.906	[Ns]
Relative impulse	I^*	0.101	[-]
Wave height at $F_{x,max}$	h_M	0.751	[-]
Resistance coefficient	C_R	1.333	[-]

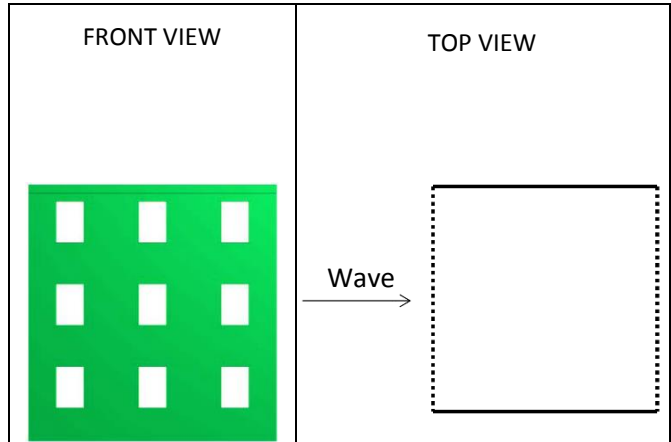


* All parameters are presented and defined at the beginning of the Appendix



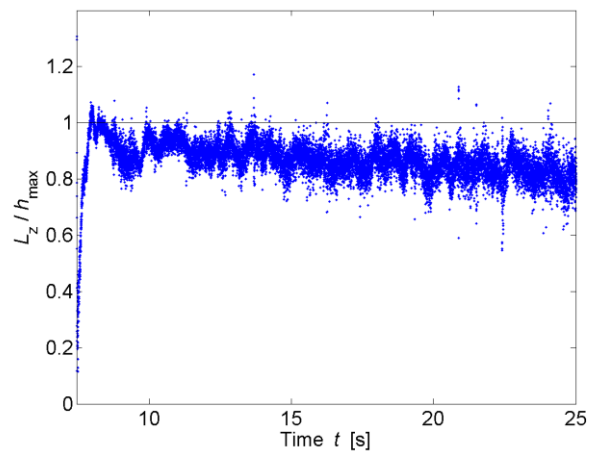
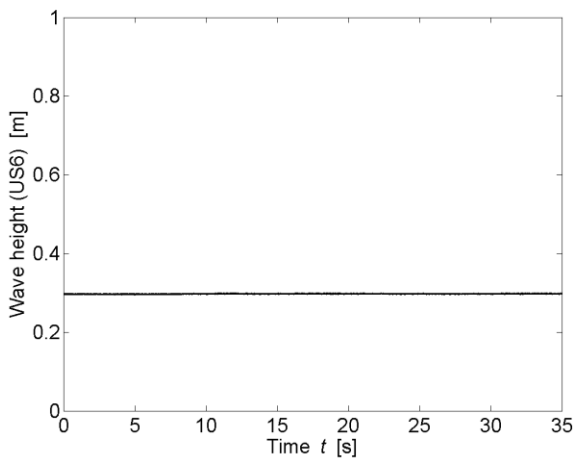
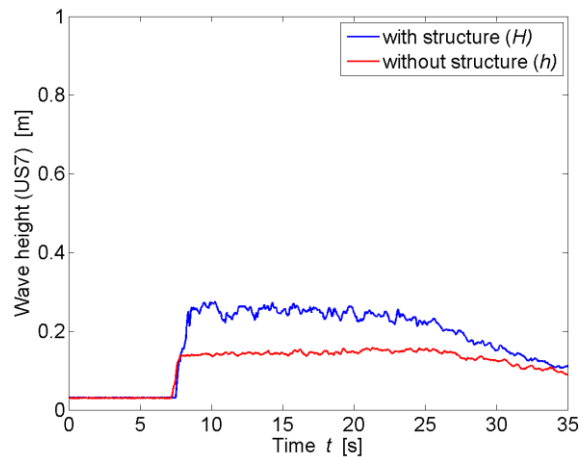
TEST PARAMETERS

Name	B17_F_WW3_1P_2		
Repetitions	3		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	16.33	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.973	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.279	[m]

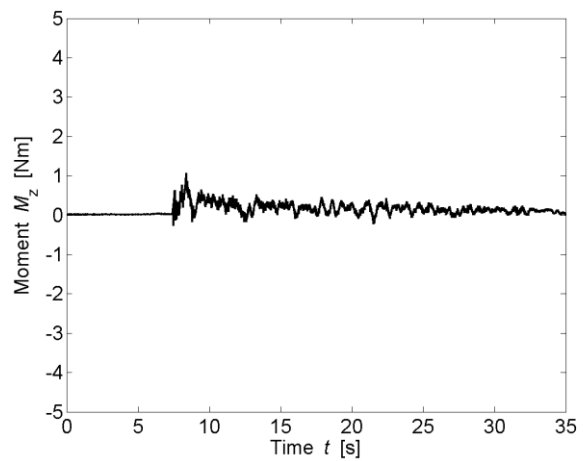
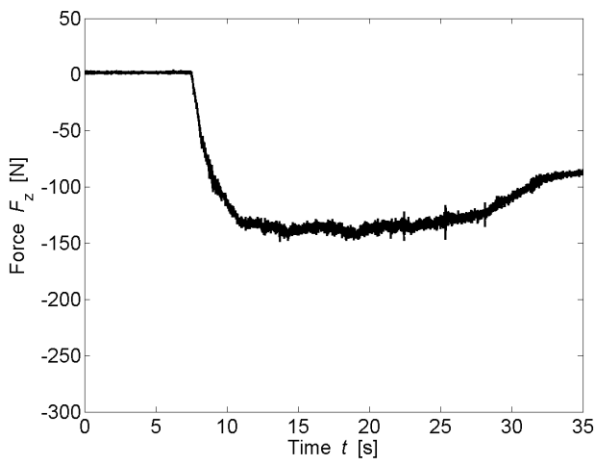
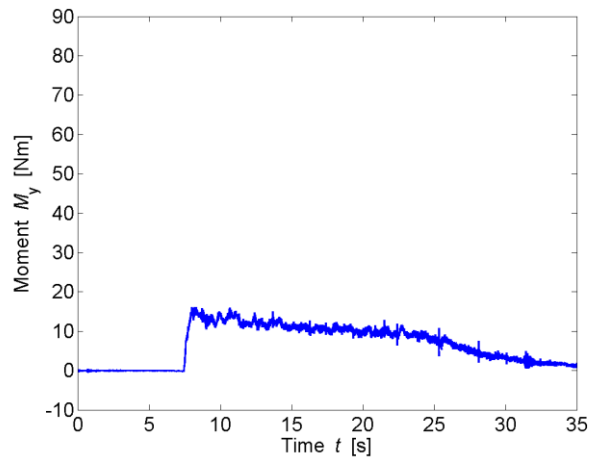
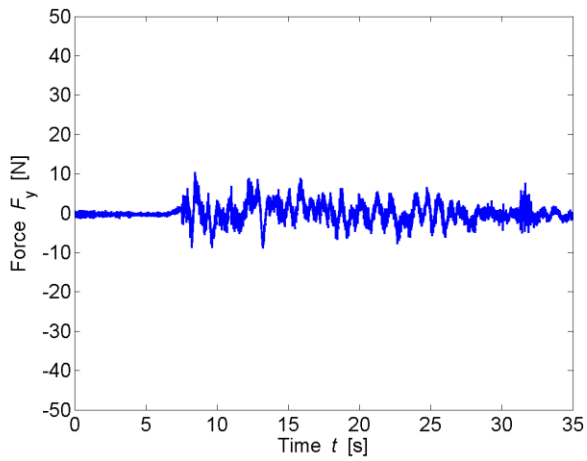
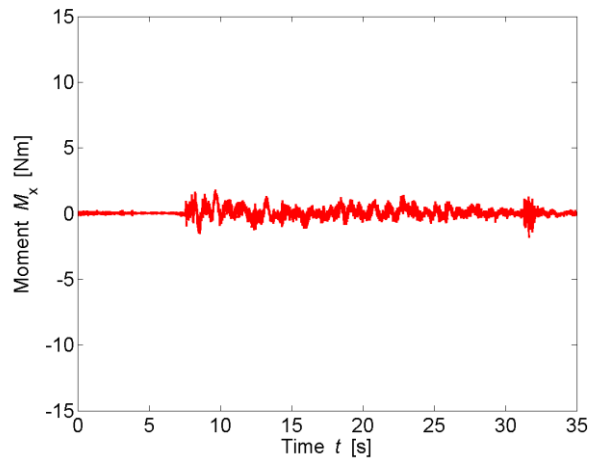
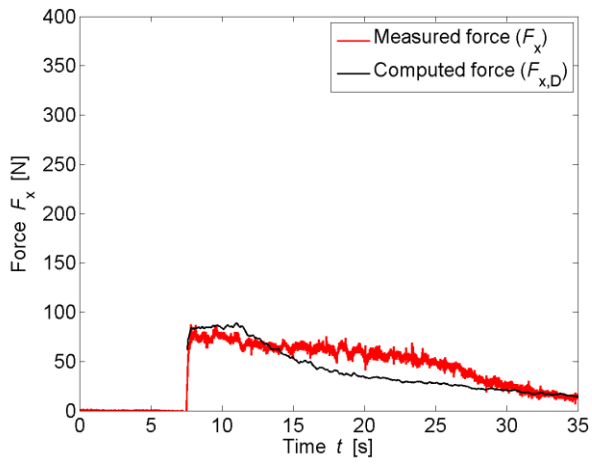


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.319	84.045	[N]
F_y	-8.977	10.380	[N]
F_z	-148.642	2.420	[N]
M_x	-1.801	1.837	[Nm]
M_y	-1.072	16.088	[Nm]
M_z	-0.272	1.063	[Nm]
Predicted Force	$F_{x,D,max}$	88.671	[N]
Initial time	t_0	7.490	[s]
Time to peak	τ_{max}	1.232	[s]
Total impulse	I_{tot}	1216.947	[Ns]
Peak Impulse	I_{peak}	82.880	[Ns]
Relative impulse	I^*	0.067	[-]
Wave height at $F_{x,max}$	h_M	0.870	[-]
Resistance coefficient	C_R	1.521	[-]

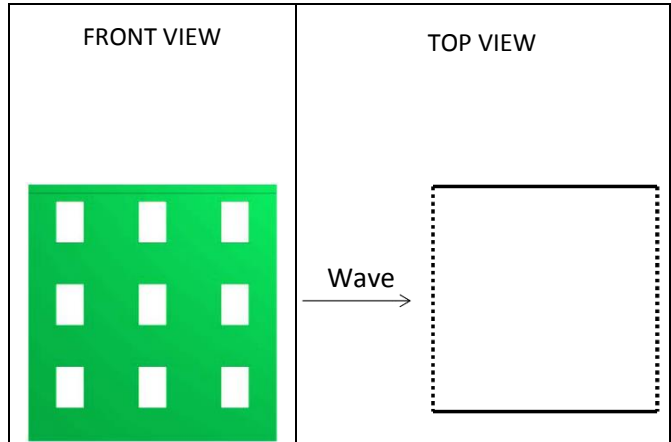


* All parameters are presented and defined at the beginning of the Appendix



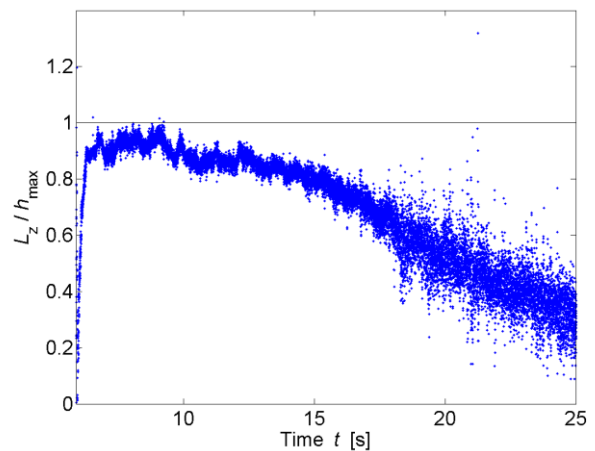
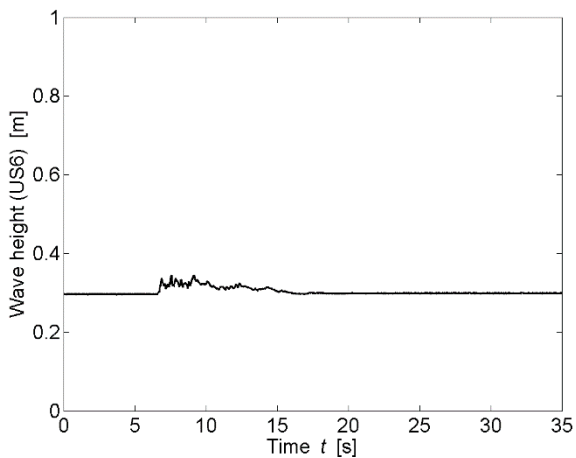
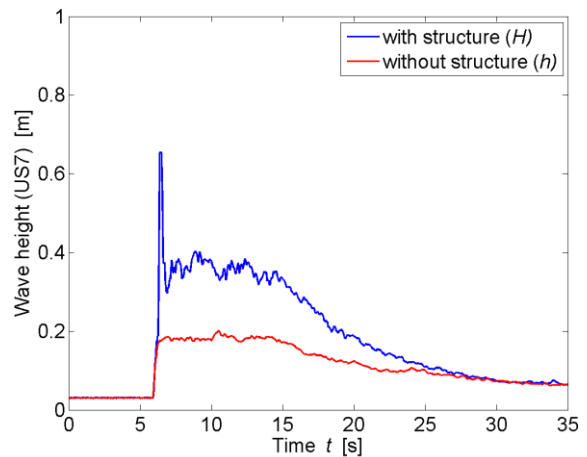
TEST PARAMETERS

Name	B17_F_WW3_2P_1		
Repetitions	1		
Configuration	Impervious Sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	17.25	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.480	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.654	[m]

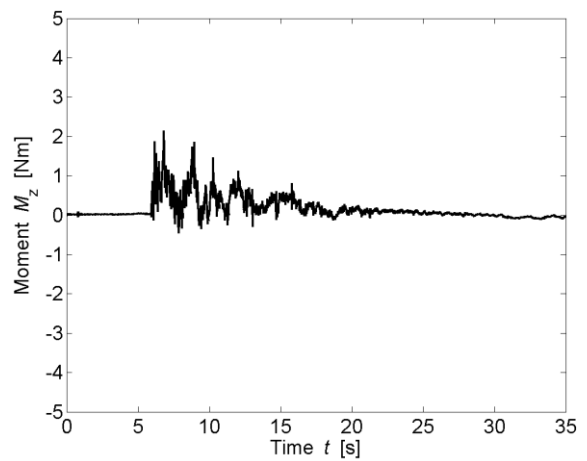
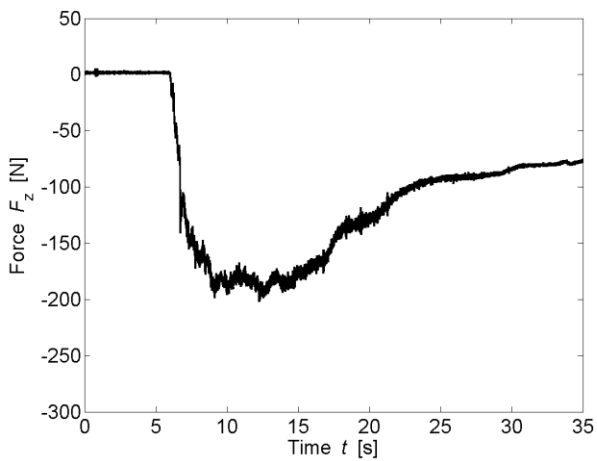
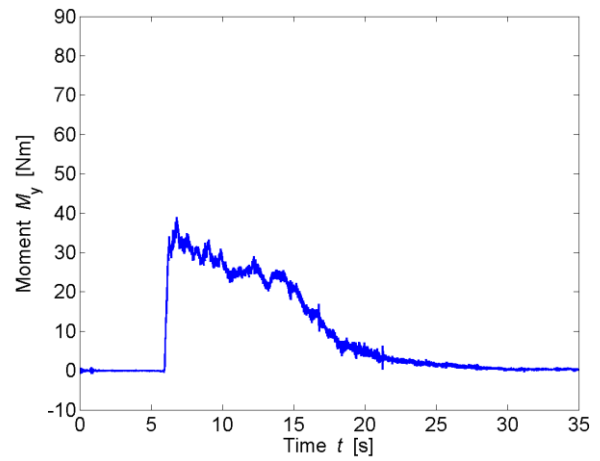
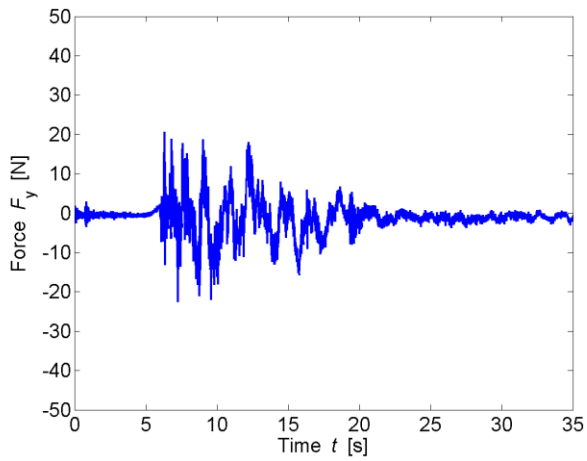
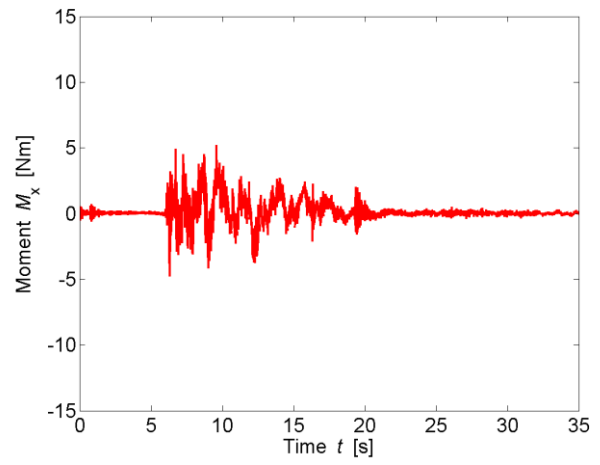
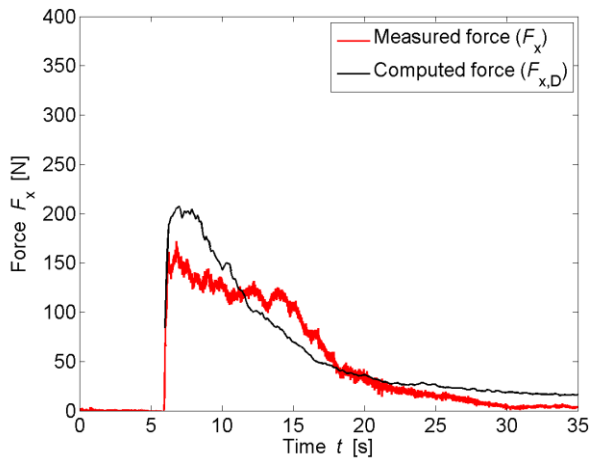


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.391	171.772	[N]
F_y	-22.559	20.585	[N]
F_z	-201.871	2.233	[N]
M_x	-4.756	5.201	[Nm]
M_y	-1.004	38.914	[Nm]
M_z	-0.452	2.139	[Nm]
Predicted Force	$F_{x,D,max}$	207.021	[N]
Initial time	t_0	5.968	[s]
Time to peak	τ_{max}	0.818	[s]
Total impulse	I_{tot}	1590.461	[Ns]
Peak Impulse	I_{peak}	107.999	[Ns]
Relative impulse	I^*	0.072	[-]
Wave height at $F_{x,max}$	h_M	0.916	[-]
Resistance coefficient	C_R	1.366	[-]

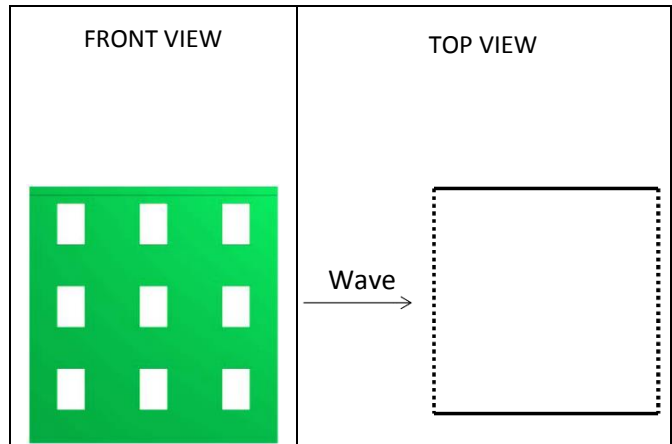


* All parameters are presented and defined at the beginning of the Appendix



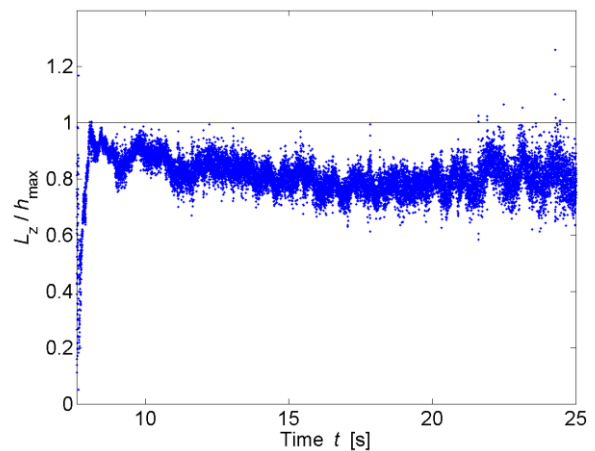
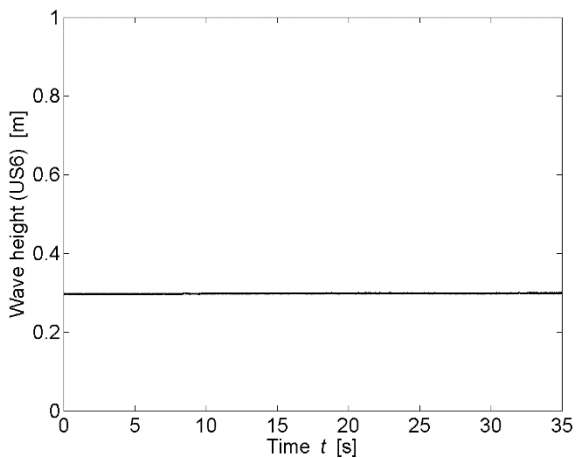
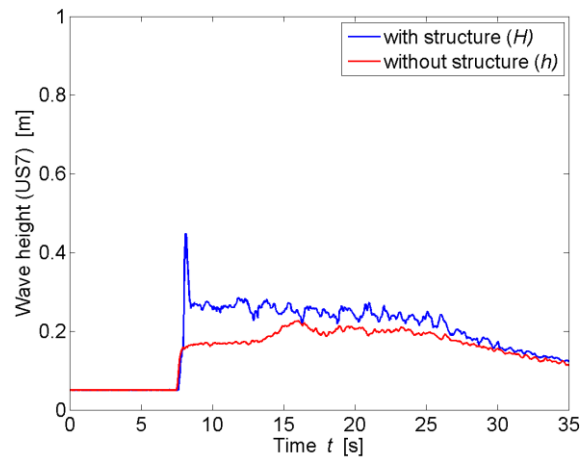
TEST PARAMETERS

Name	B17_F_WW5_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	18.42	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.924	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.448	[m]

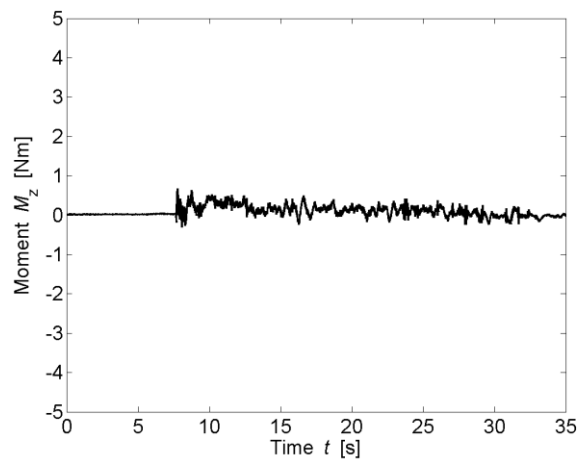
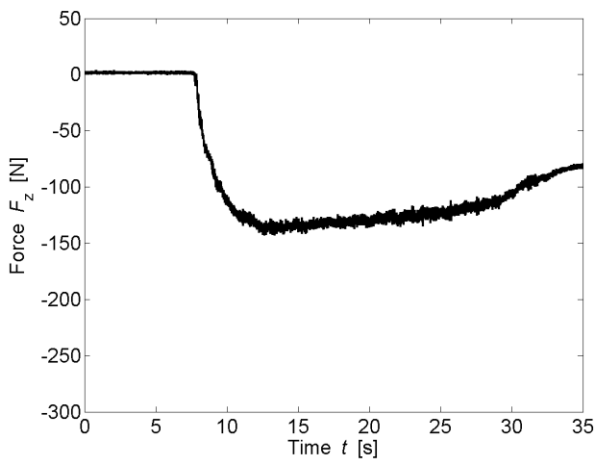
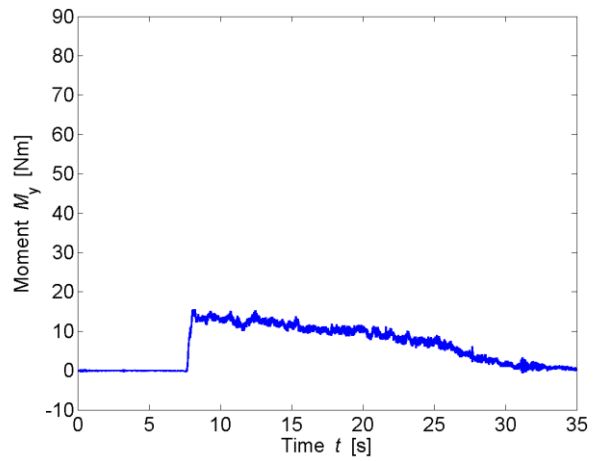
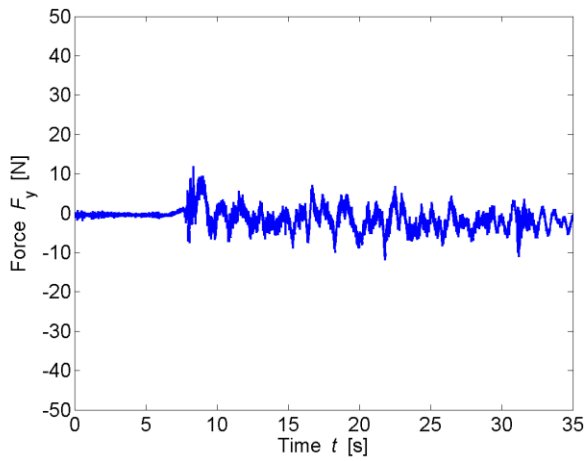
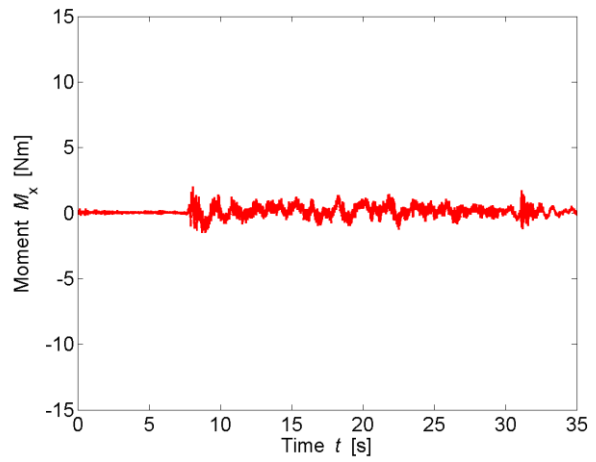
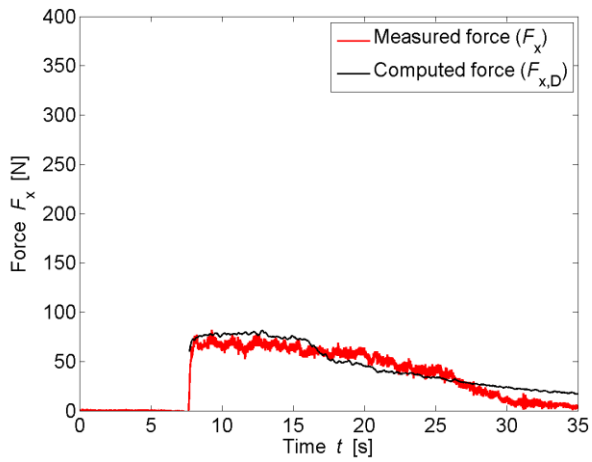


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.528	81.843	[N]
F_y	-11.914	11.947	[N]
F_z	-142.832	2.139	[N]
M_x	-1.486	2.019	[Nm]
M_y	-1.295	15.549	[Nm]
M_z	-0.313	0.681	[Nm]
Predicted Force	$F_{x,D,max}$	81.380	[N]
Initial time	t_0	7.655	[s]
Time to peak	τ_{max}	1.625	[s]
Total impulse	I_{tot}	1106.325	[Ns]
Peak Impulse	I_{peak}	102.636	[Ns]
Relative impulse	I^*	0.091	[-]
Wave height at $F_{x,max}$	h_M	0.739	[-]
Resistance coefficient	C_R	1.514	[-]

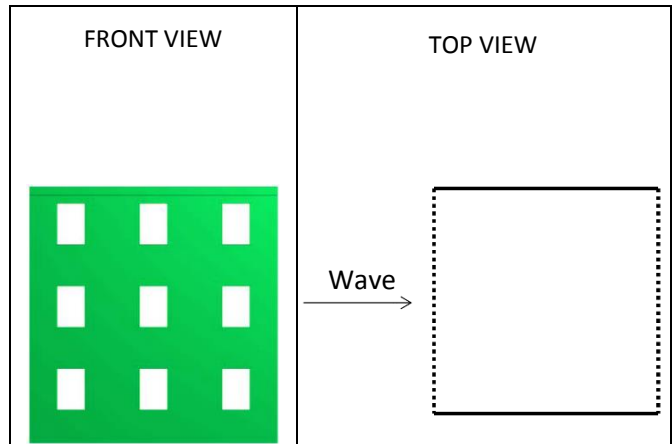


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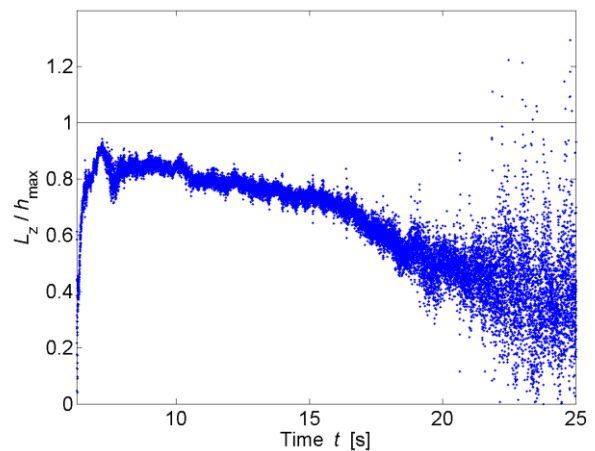
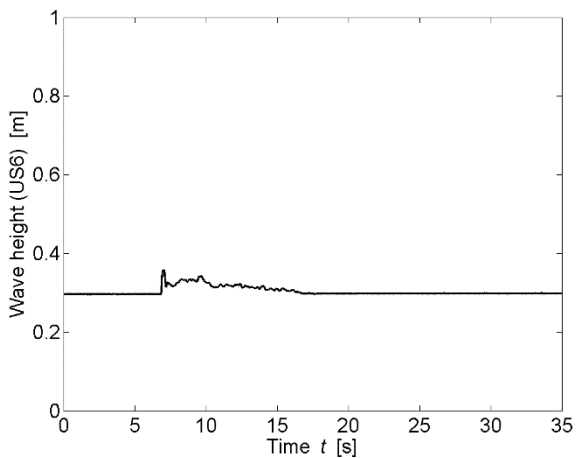
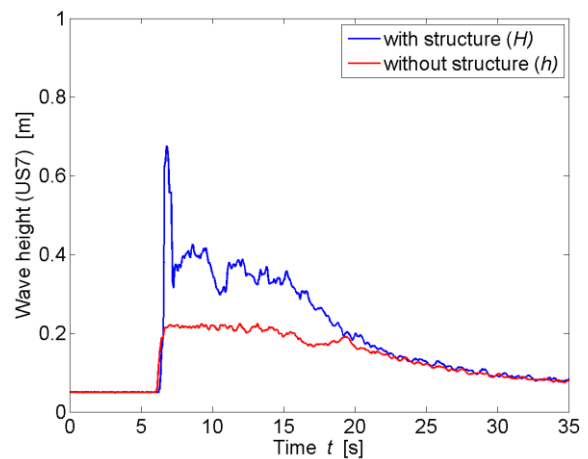
TEST PARAMETERS

Name	B17_F_WW5_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	15.27	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.419	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.676	[m]

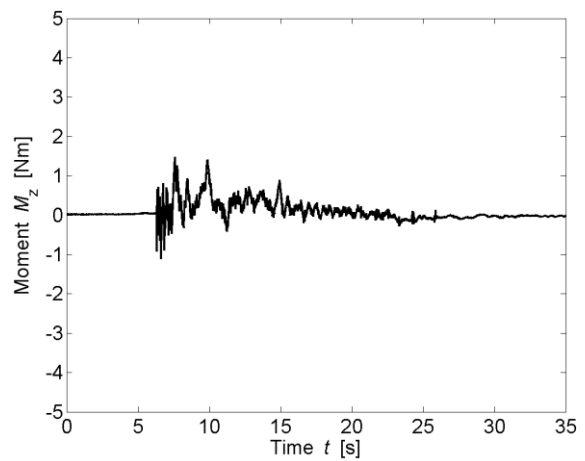
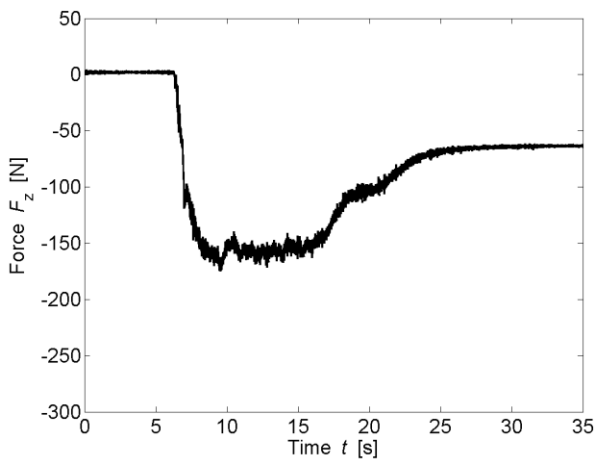
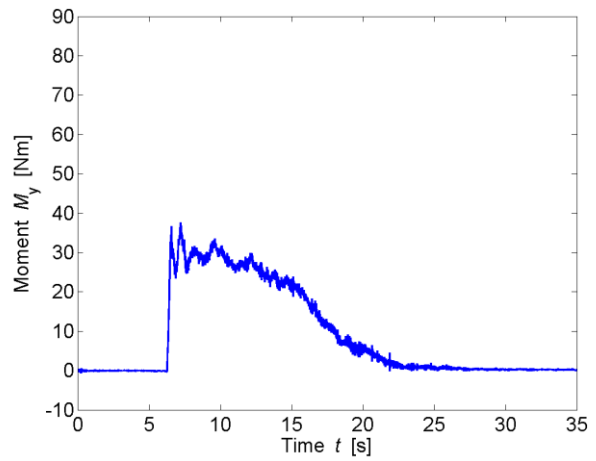
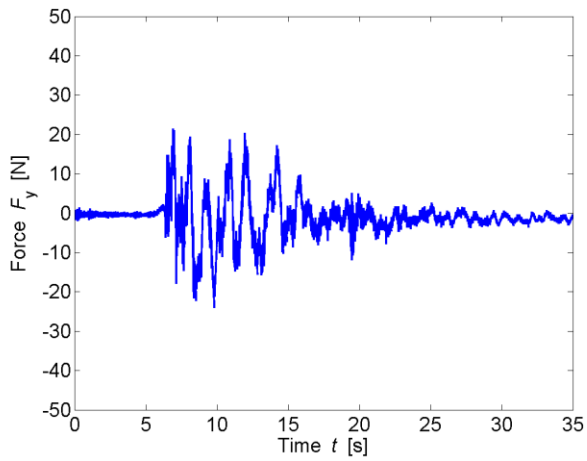
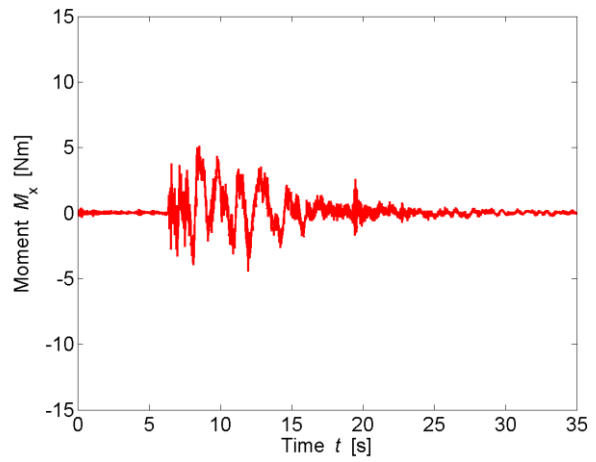
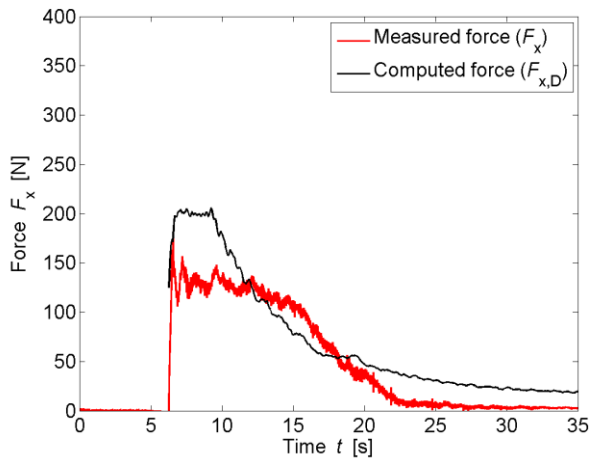


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.569	174.602	[N]
F_y	-24.076	21.466	[N]
F_z	-174.600	0.000	[N]
M_x	-4.443	5.136	[Nm]
M_y	-0.832	37.666	[Nm]
M_z	-1.105	1.481	[Nm]
Predicted Force	$F_{x,D,max}$	205.756	[N]
Initial time	t_0	6.316	[s]
Time to peak	τ_{max}	0.256	[s]
Total impulse	I_{tot}	1513.169	[Ns]
Peak Impulse	I_{peak}	28.185	[Ns]
Relative impulse	I^*	0.019	[-]
Wave height at $F_{x,max}$	h_M	0.843	[-]
Resistance coefficient	C_R	1.486	[-]

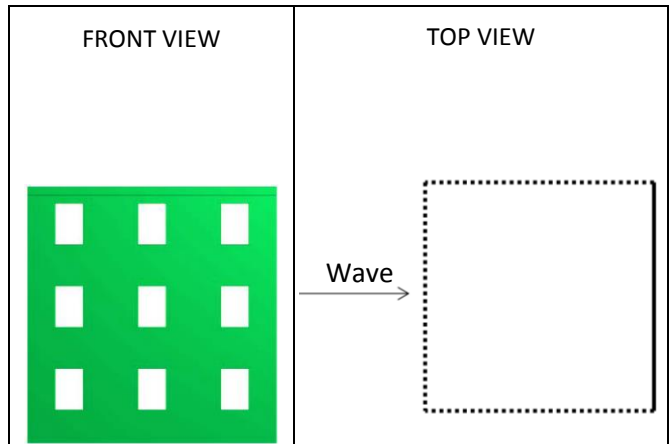


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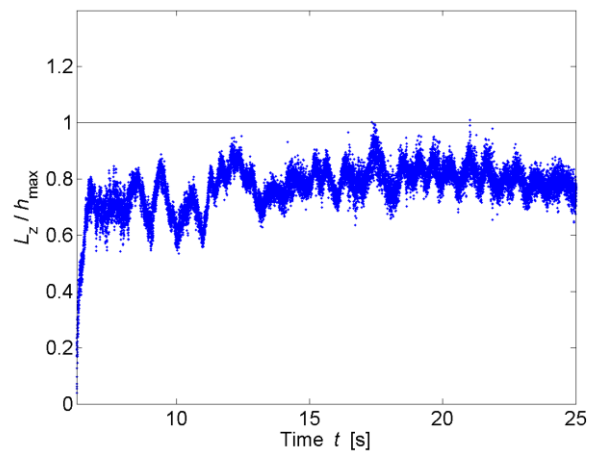
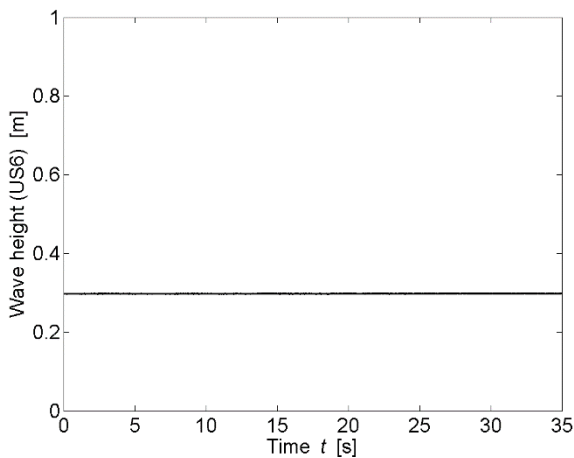
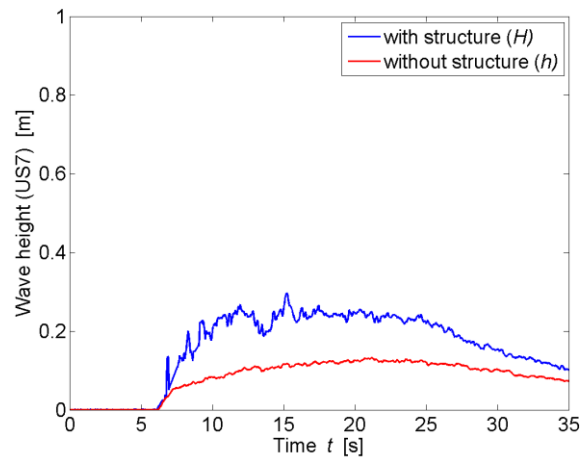
TEST PARAMETERS

Name	B17_B_WD1_2		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	13.31	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.368	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.297	[m]

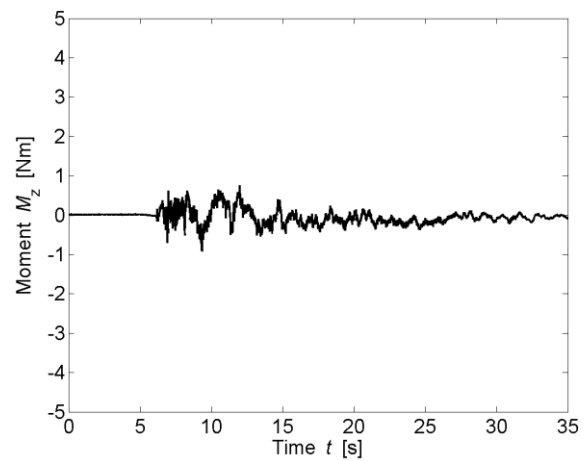
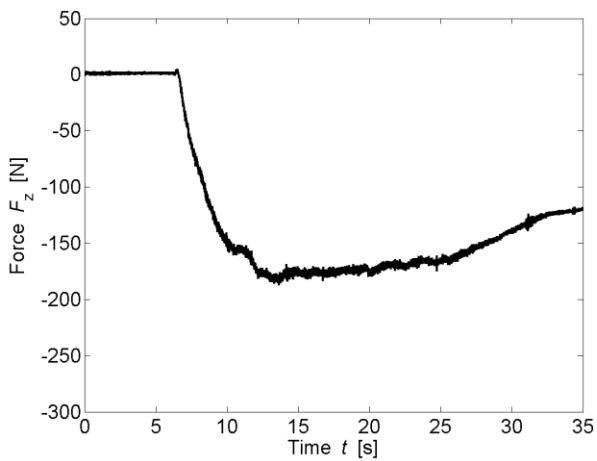
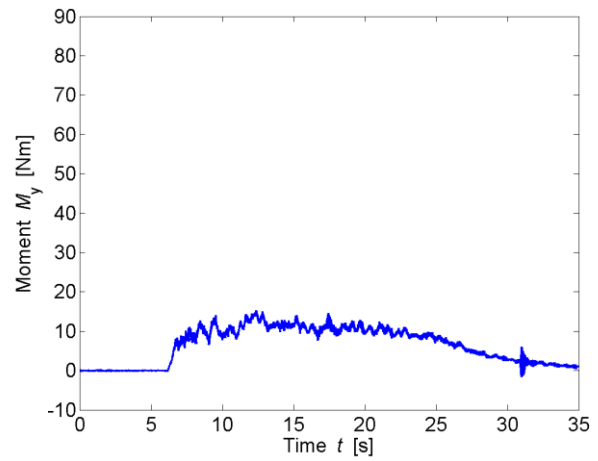
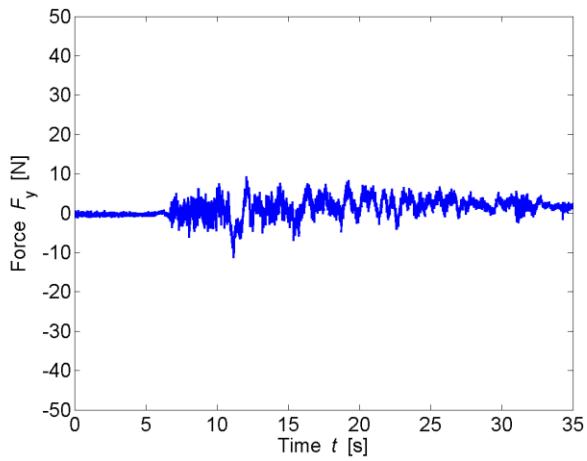
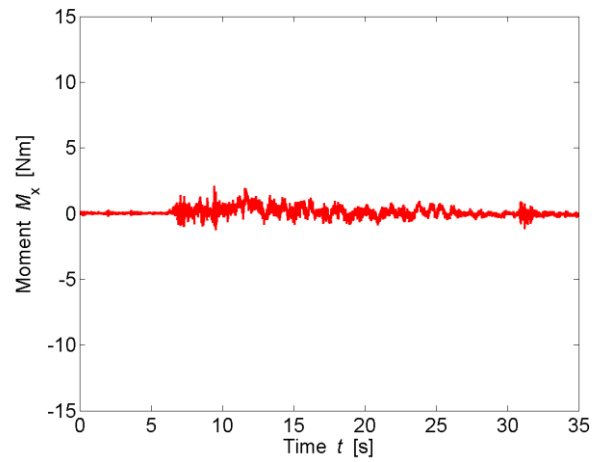
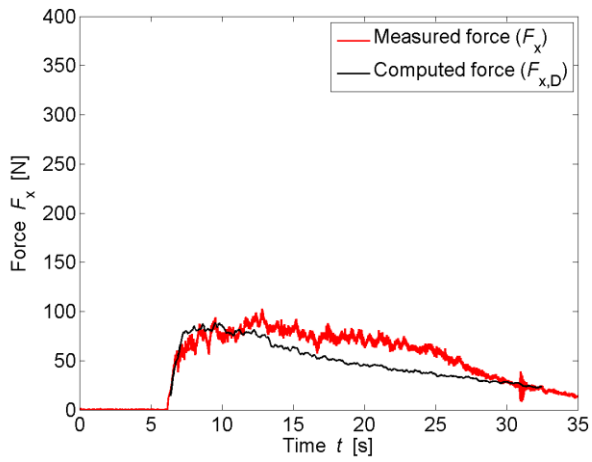


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-7.456	102.989	[N]
F_y	-12.158	8.716	[N]
F_z	-186.502	5.513	[N]
M_x	-1.793	2.113	[Nm]
M_y	-1.682	15.233	[Nm]
M_z	-0.923	0.758	[Nm]
Predicted Force	$F_{x,D,max}$	88.318	[N]
Initial time	t_0	6.292	[s]
Time to peak	τ_{max}	6.532	[s]
Total impulse	I_{tot}	1439.934	[Ns]
Peak Impulse	I_{peak}	474.218	[Ns]
Relative impulse	I^*	0.319	[-]
Wave height at $F_{x,max}$	h_M	0.803	[-]
Resistance coefficient	C_R	2.621	[-]

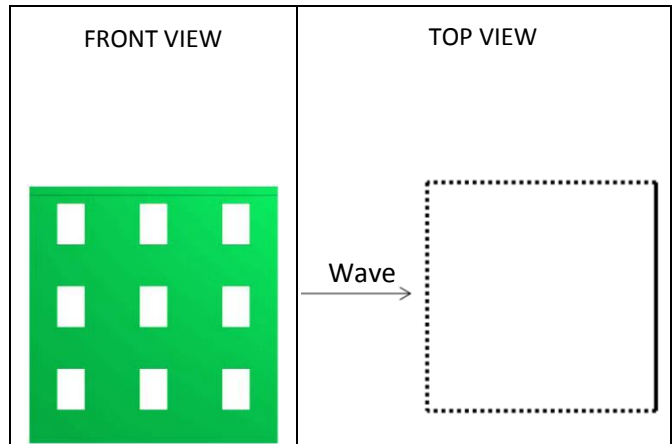


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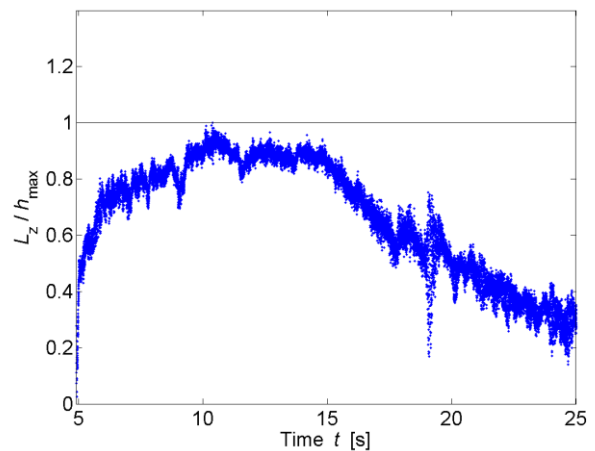
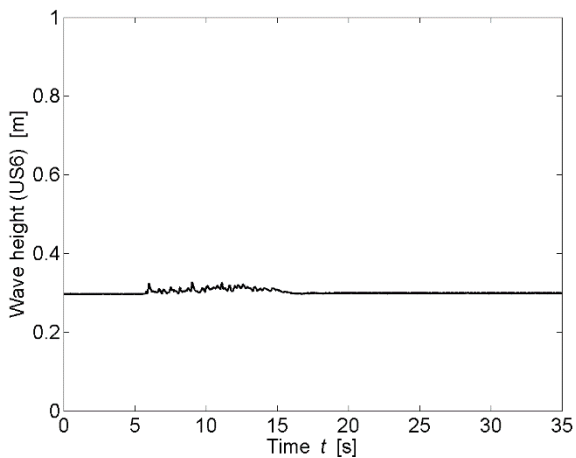
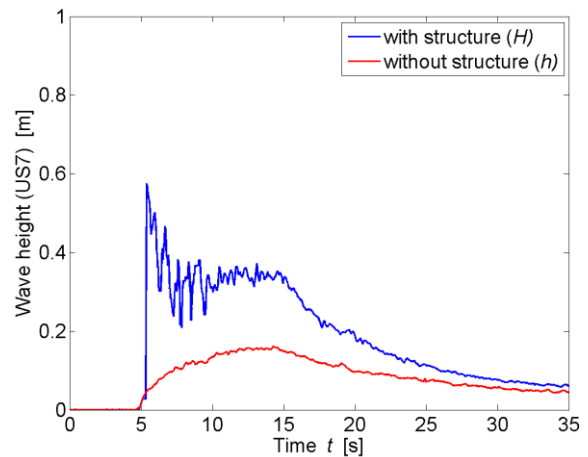
TEST PARAMETERS

Name	B17_B_WD2_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	16.68	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.098	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.575	[m]

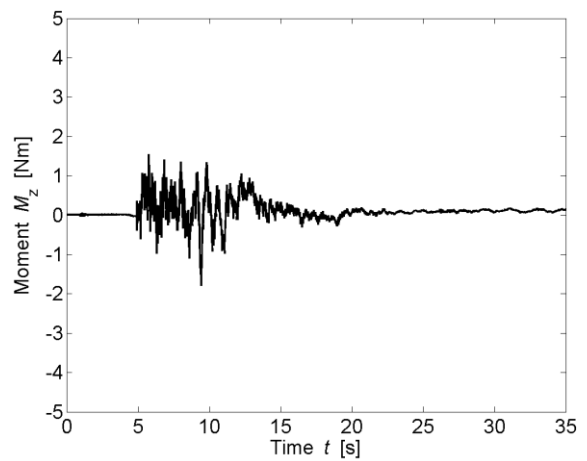
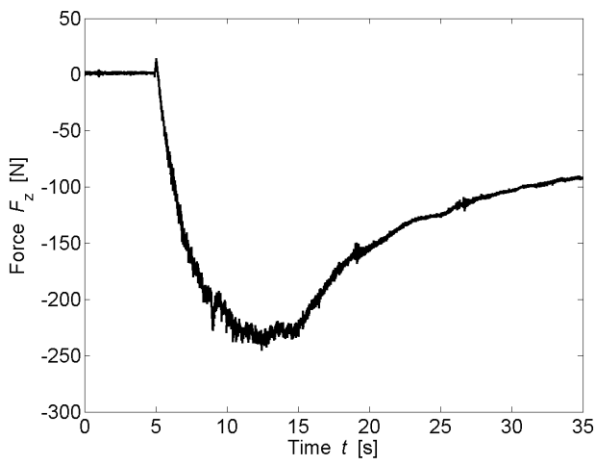
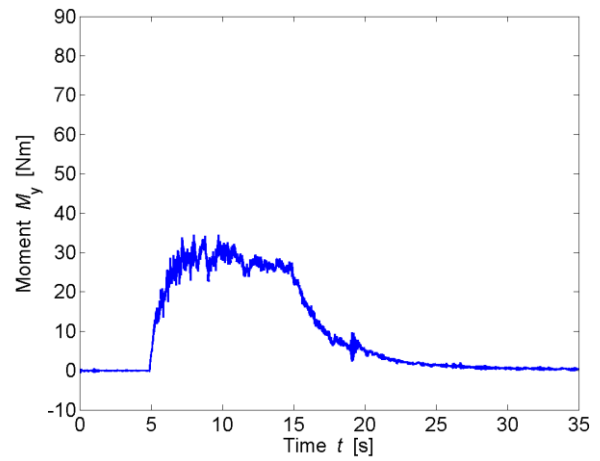
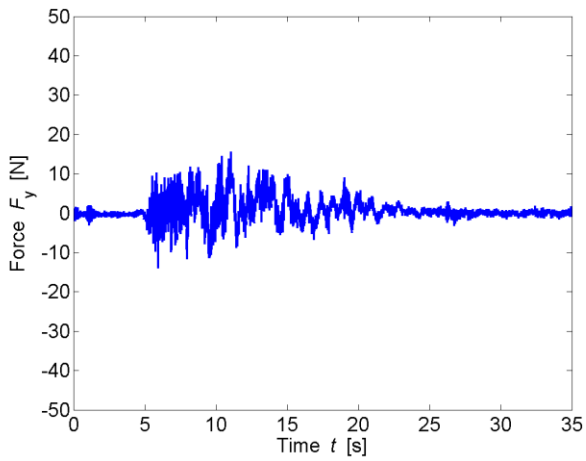
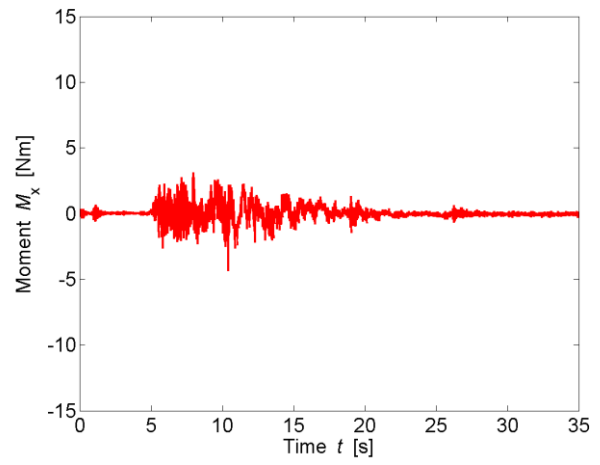
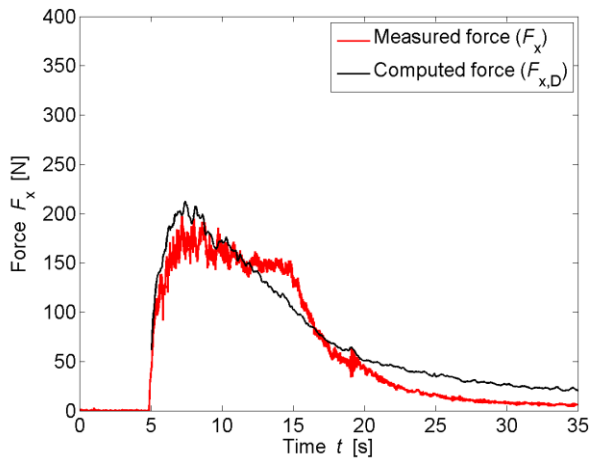


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.988	197.780	[N]
F_y	-13.969	15.544	[N]
F_z	-245.165	14.416	[N]
M_x	-4.337	3.129	[Nm]
M_y	-0.688	34.505	[Nm]
M_z	-1.795	1.543	[Nm]
Predicted Force	$F_{x,D,max}$	212.377	[N]
Initial time	t_0	4.966	[s]
Time to peak	τ_{max}	2.210	[s]
Total impulse	I_{tot}	2061.435	[Ns]
Peak Impulse	I_{peak}	284.836	[Ns]
Relative impulse	I^*	0.147	[-]
Wave height at $F_{x,max}$	h_M	0.595	[-]
Resistance coefficient	C_R	1.811	[-]

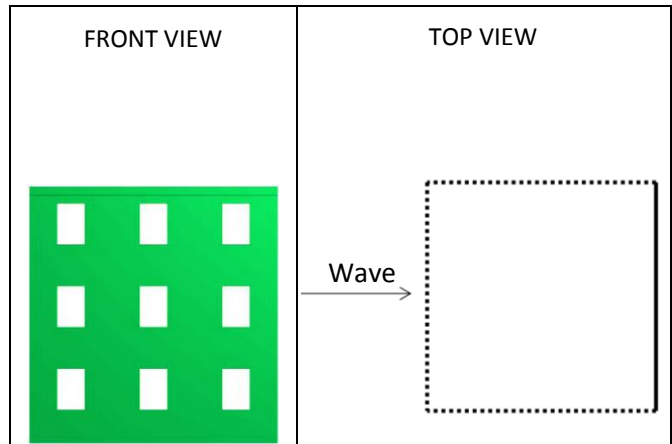


* All parameters are presented and defined at the beginning of the Appendix



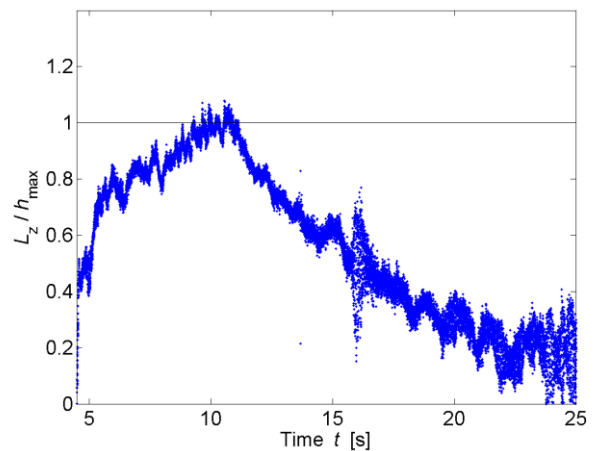
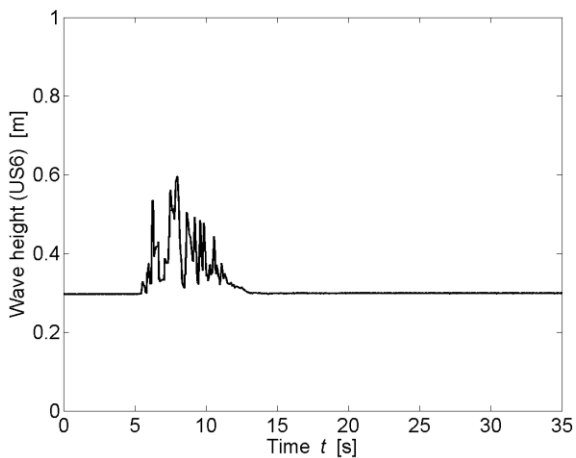
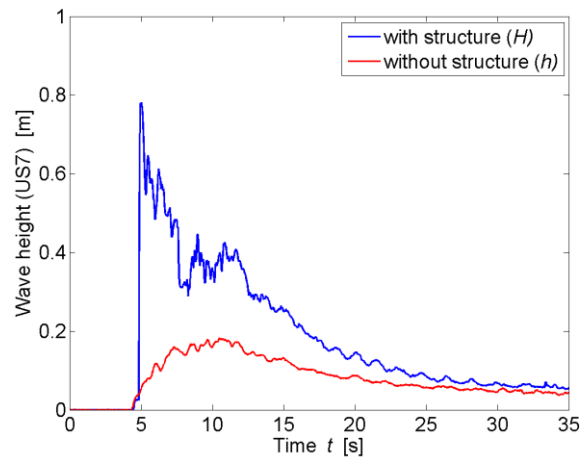
TEST PARAMETERS

Name	B17_B_WD3_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	18.808	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.561	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.781	[m]

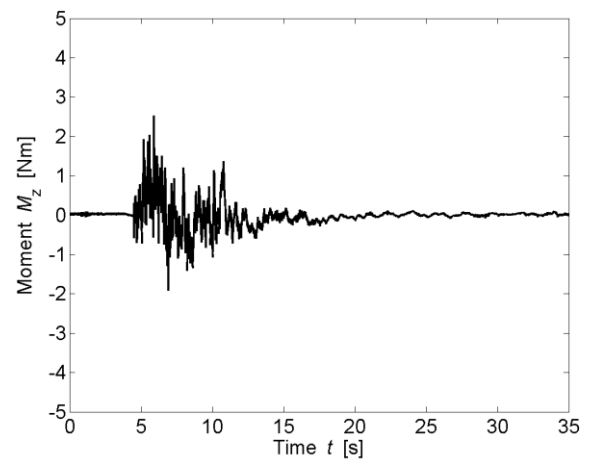
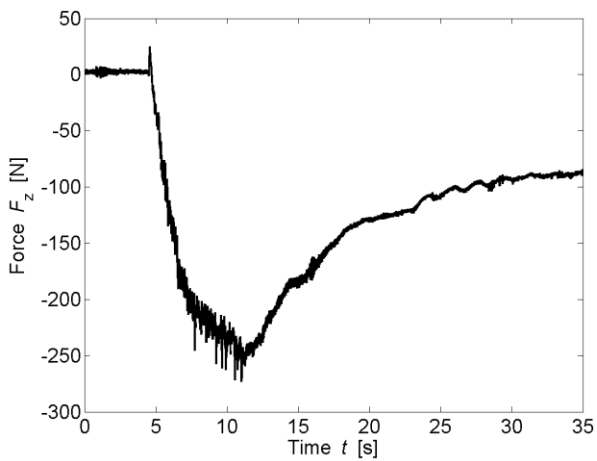
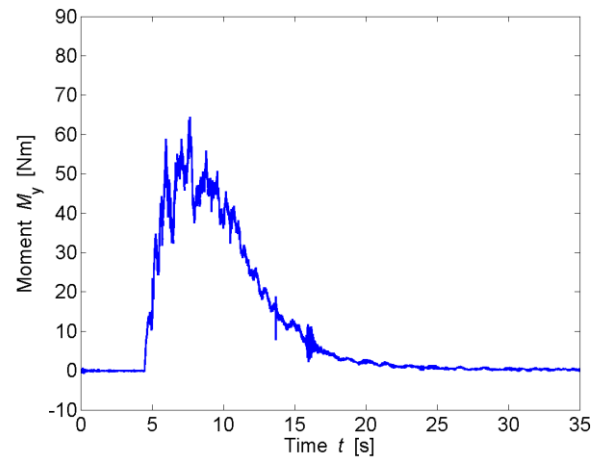
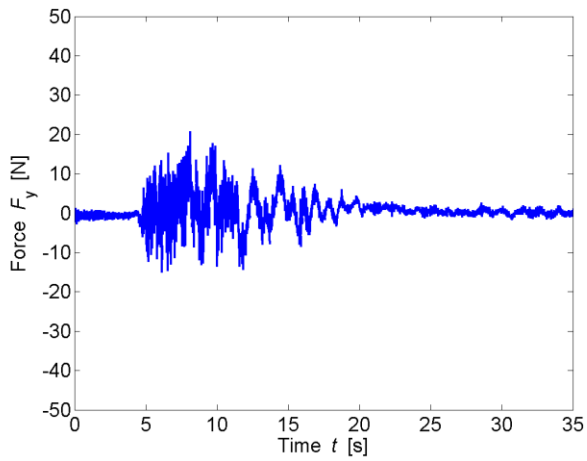
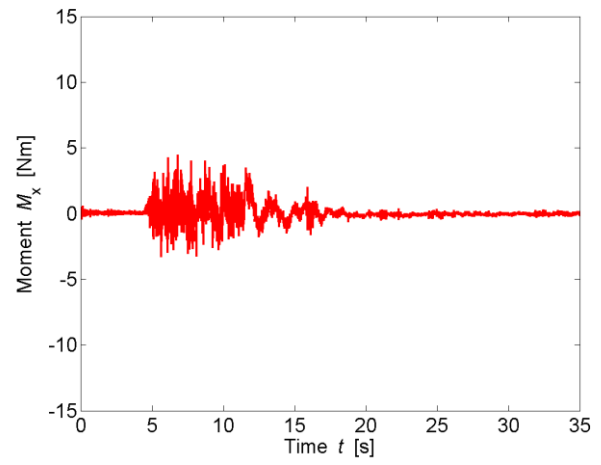
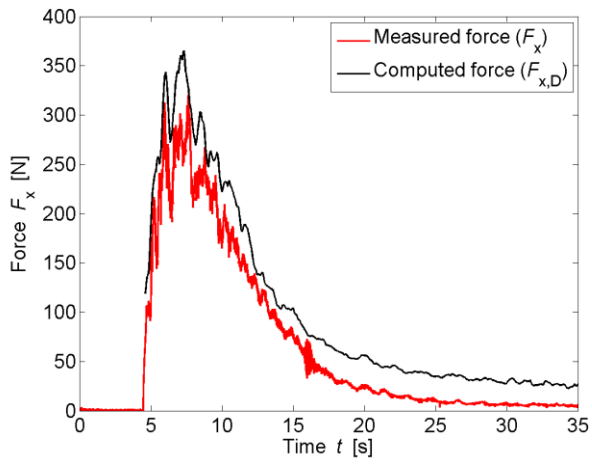


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.799	322.011	[N]
F_y	-15.066	20.810	[N]
F_z	-273.107	24.896	[N]
M_x	-3.289	4.471	[Nm]
M_y	-0.774	64.400	[Nm]
M_z	-1.912	2.527	[Nm]
Predicted Force	$F_{x,D,max}$		[N]
Initial time	t_0	4.540	[s]
Time to peak	τ_{max}	3.113	[s]
Total impulse	I_{tot}	2177.596	[Ns]
Peak Impulse	I_{peak}	676.448	[Ns]
Relative impulse	I^*	0.334	[-]
Wave height at $F_{x,max}$	h_M	0.841	[-]
Resistance coefficient	C_R	1.893	[-]

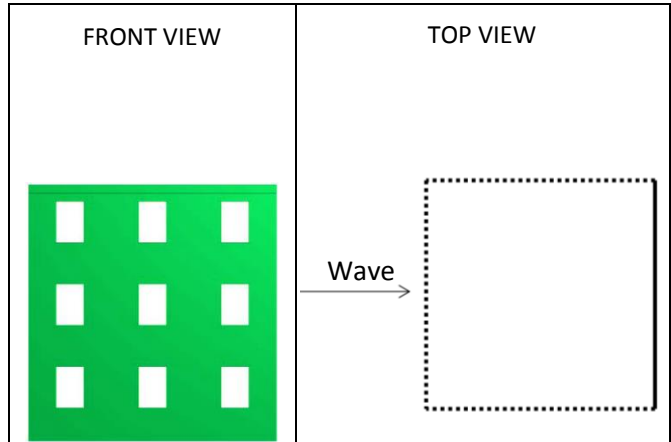


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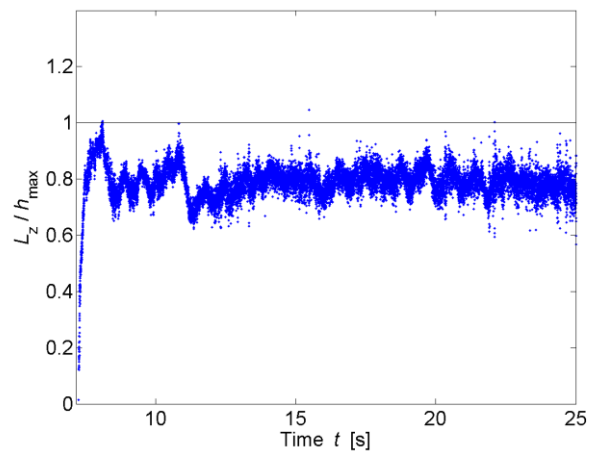
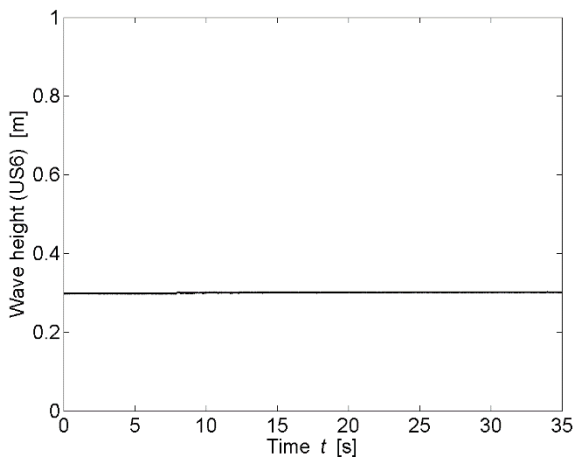
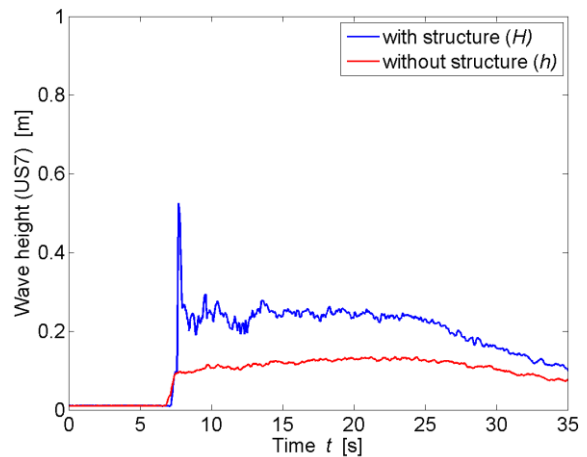
TEST PARAMETERS

Name	B17_B_WW1_1P_1		
Repetitions	1		
Configuration	Impervious Back (B)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	13.545	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.116	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.525	[m]

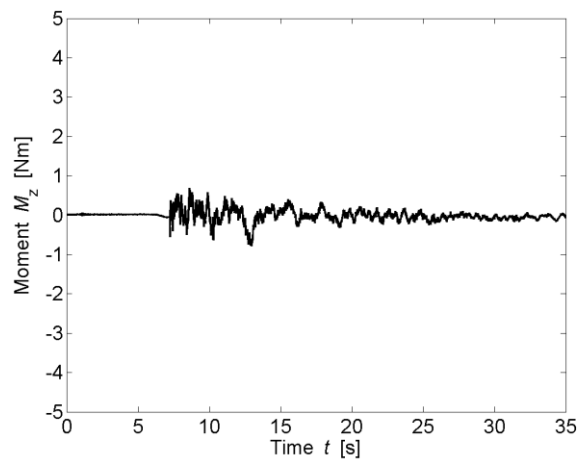
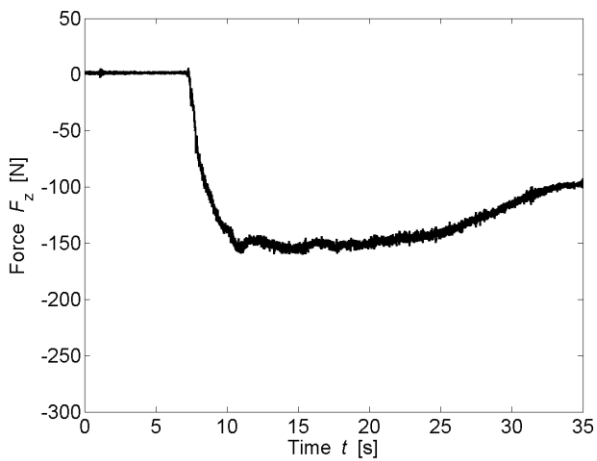
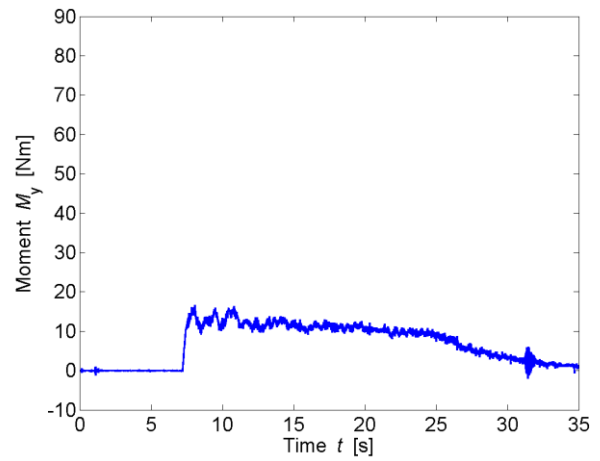
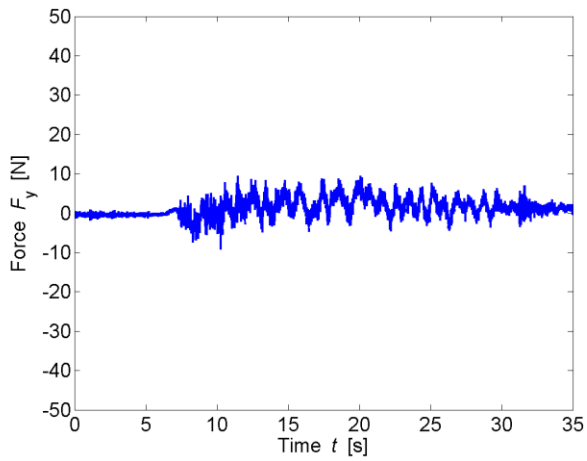
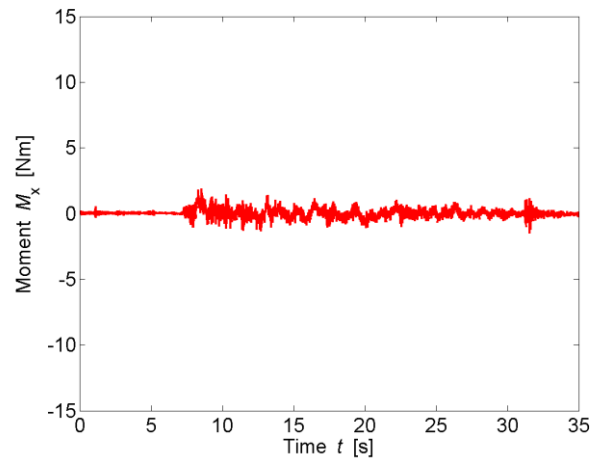
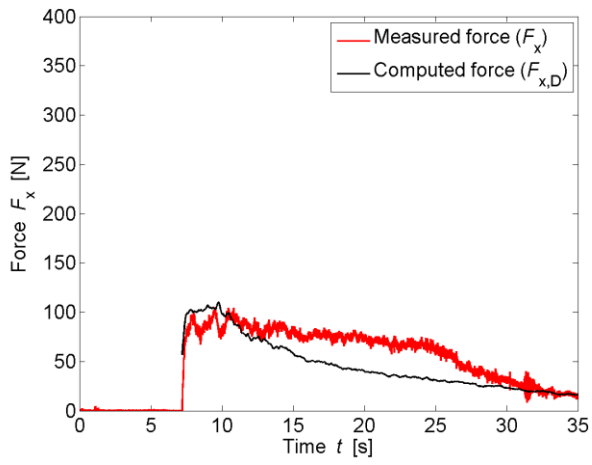


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.012	104.793	[N]
F_y	-9.246	9.524	[N]
F_z	-159.981	6.075	[N]
M_x	-1.512	1.884	[Nm]
M_y	-2.048	16.661	[Nm]
M_z	-0.785	0.693	[Nm]
Predicted Force	$F_{x,D,max}$	109.967	[N]
Initial time	t_0	7.218	[s]
Time to peak	τ_{max}	2.302	[s]
Total impulse	I_{tot}	1506.412	[Ns]
Peak Impulse	I_{peak}	189.264	[Ns]
Relative impulse	I^*	0.122	[-]
Wave height at $F_{x,max}$	h_M	0.774	[-]
Resistance coefficient	C_R	1.932	[-]

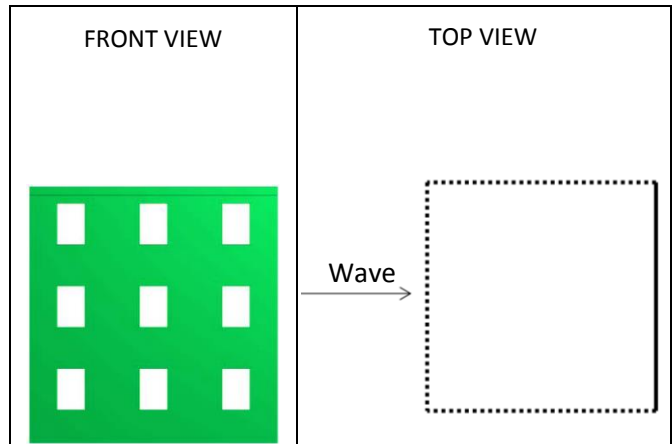


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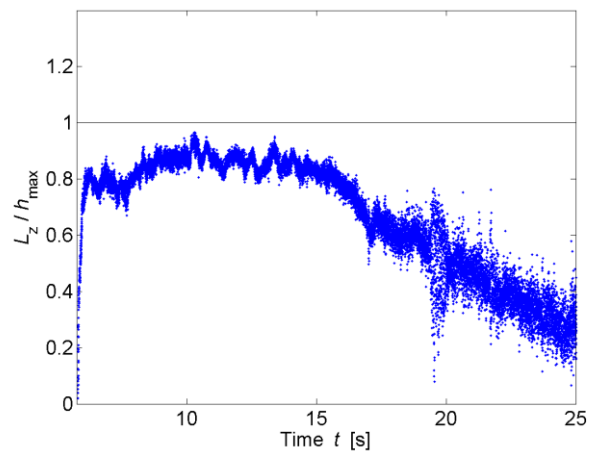
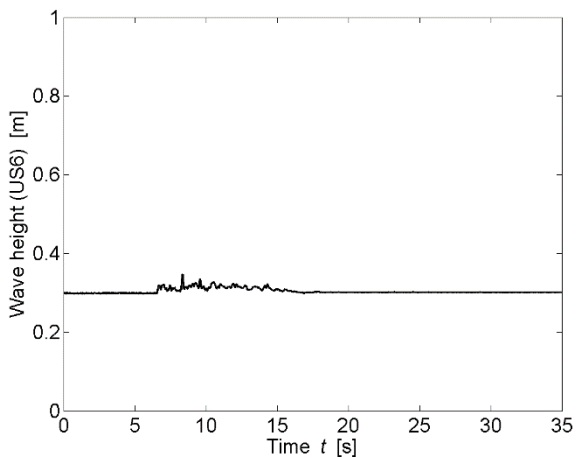
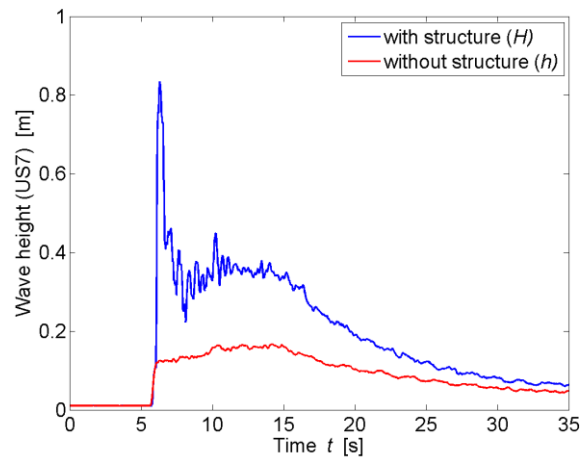
TEST PARAMETERS

Name	B17_B_WW1_2P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	17.38	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.747	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.834	[m]

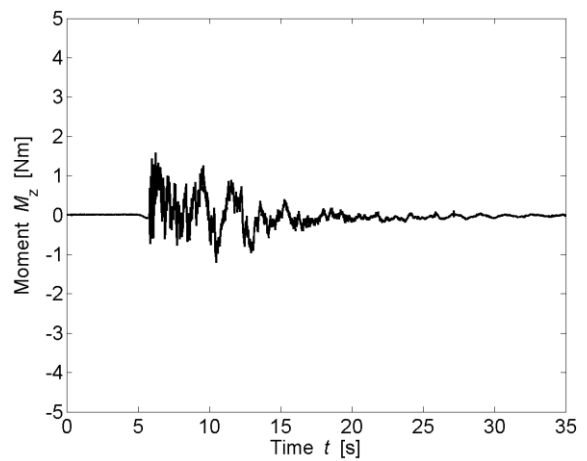
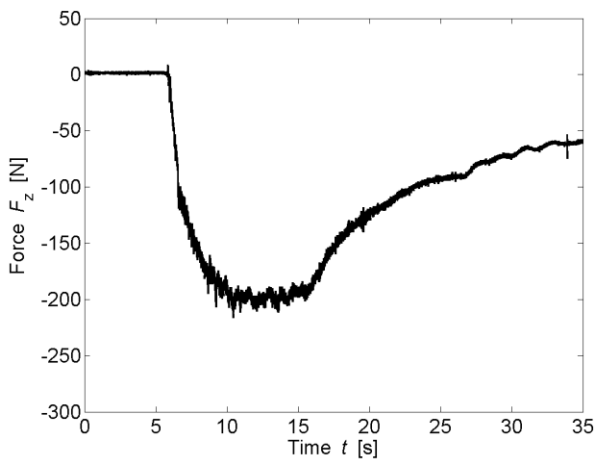
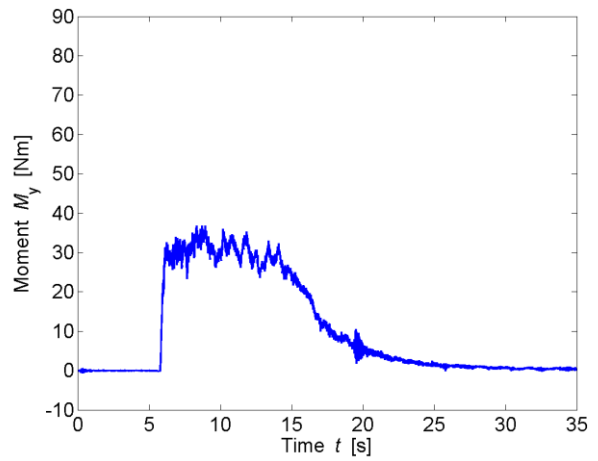
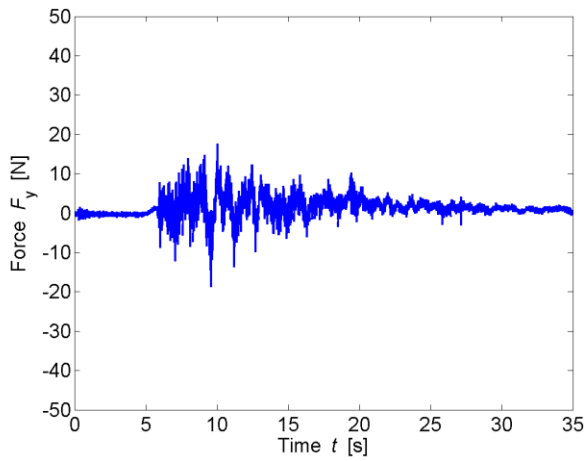
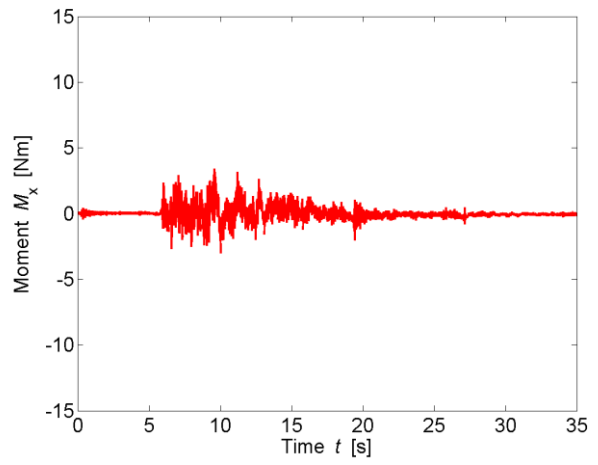
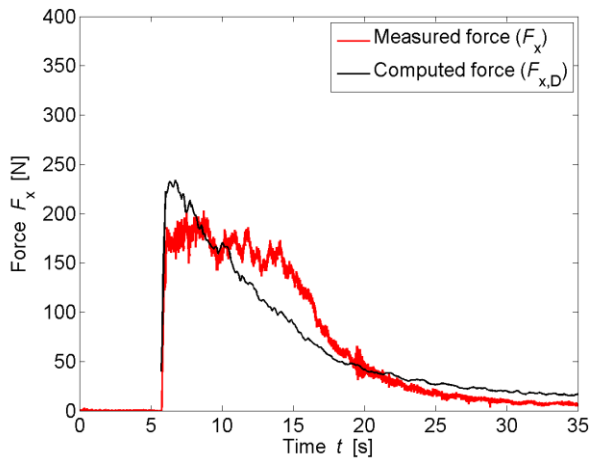


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.206	202.888	[N]
F_y	-18.717	17.600	[N]
F_z	-216.115	8.606	[N]
M_x	-3.013	3.418	[Nm]
M_y	-0.672	36.830	[Nm]
M_z	-1.207	1.586	[Nm]
Predicted Force	$F_{x,D,max}$	233.827	[N]
Initial time	t_0	5.810	[s]
Time to peak	τ_{max}	1.708	[s]
Total impulse	I_{tot}	2138.655	[Ns]
Peak Impulse	I_{peak}	280.307	[Ns]
Relative impulse	I^*	0.139	[-]
Wave height at $F_{x,max}$	h_M	0.736	[-]
Resistance coefficient	C_R	1.874	[-]

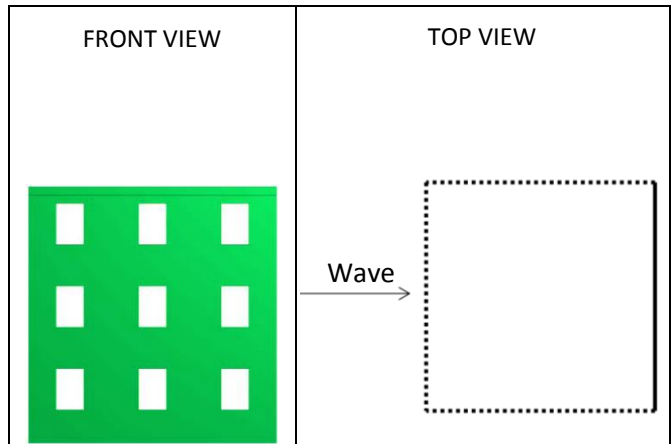


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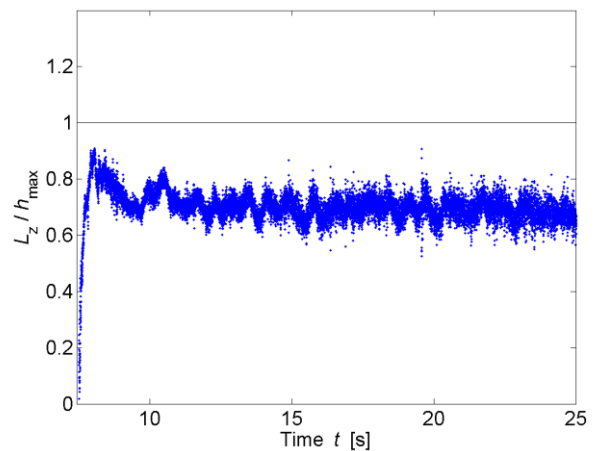
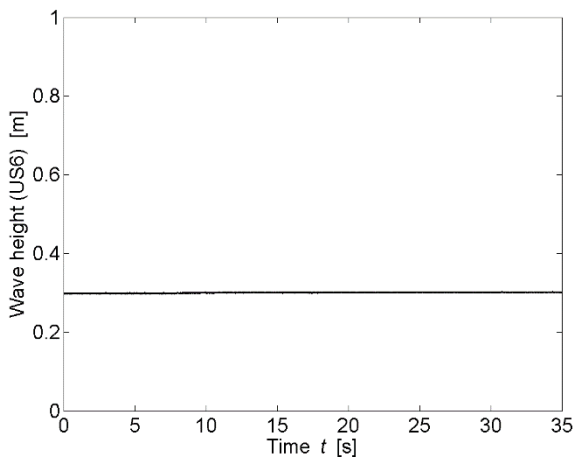
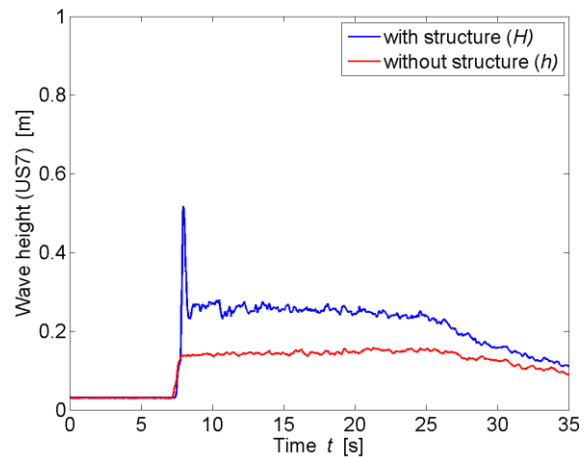
TEST PARAMETERS

Name	B17_B_WW3_1P_2		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	16.33	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.981	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.517	[m]

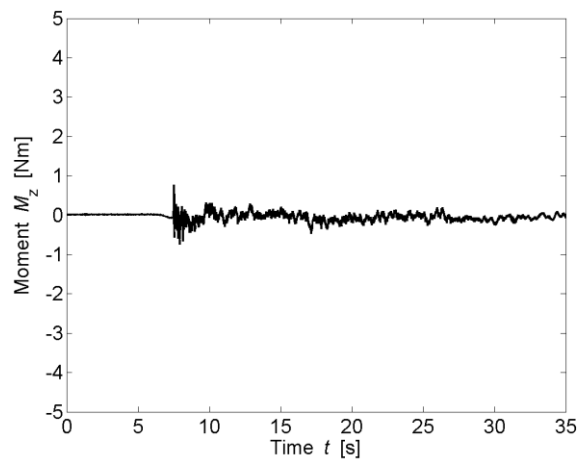
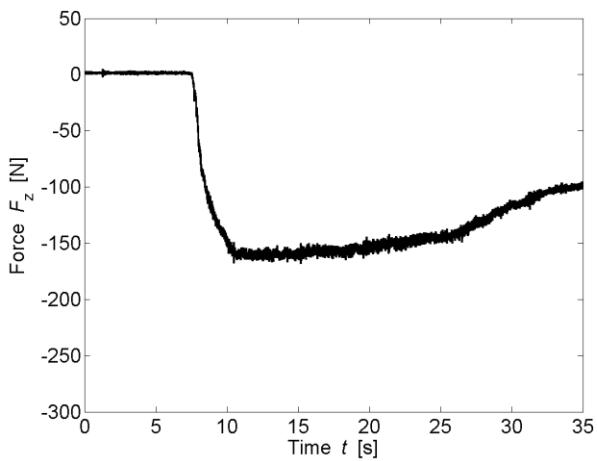
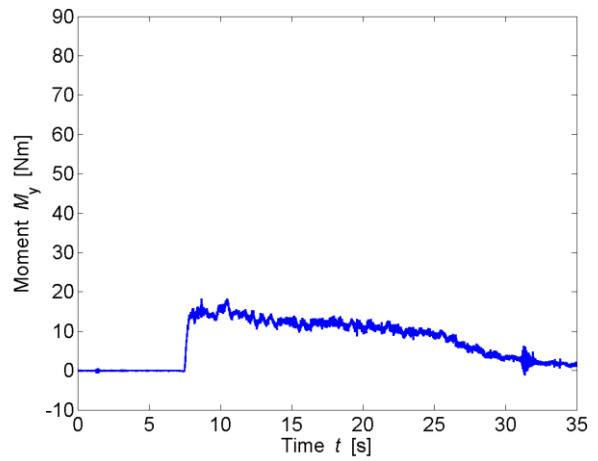
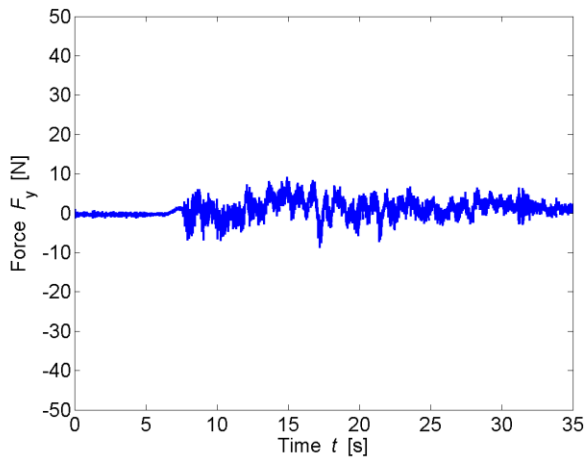
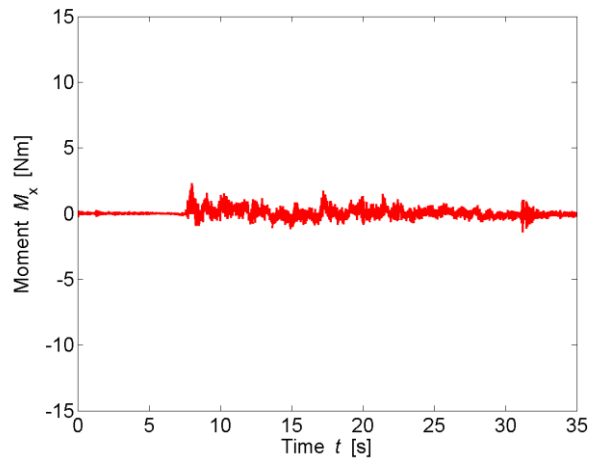
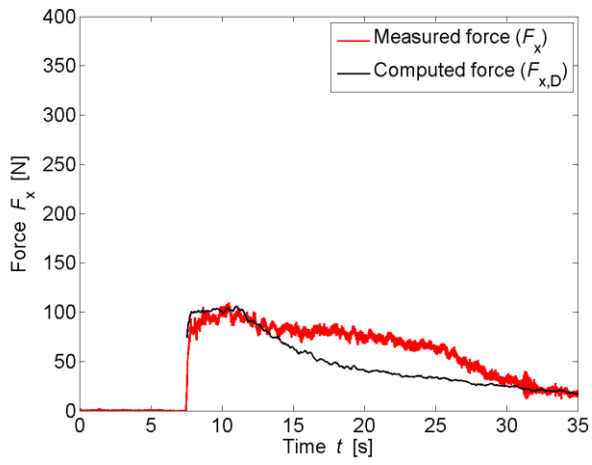


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.327	109.836	[N]
F_y	-8.830	9.157	[N]
F_z	-168.041	1.952	[N]
M_x	-1.395	2.303	[Nm]
M_y	-1.229	18.235	[Nm]
M_z	-0.744	0.767	[Nm]
Predicted Force	$F_{x,D,max}$	105.981	[N]
Initial time	t_0	7.465	[s]
Time to peak	τ_{max}	3.009	[s]
Total impulse	I_{tot}	1557.616	[Ns]
Peak Impulse	I_{peak}	265.142	[Ns]
Relative impulse	I^*	0.166	[-]
Wave height at $F_{x,max}$	h_M	0.890	[-]
Resistance coefficient	C_R	2.003	[-]

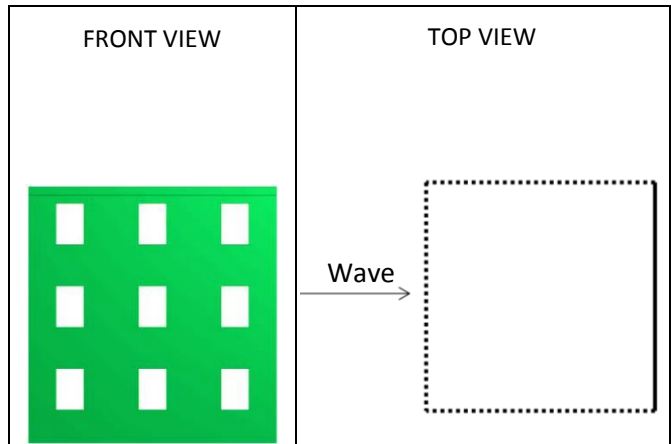


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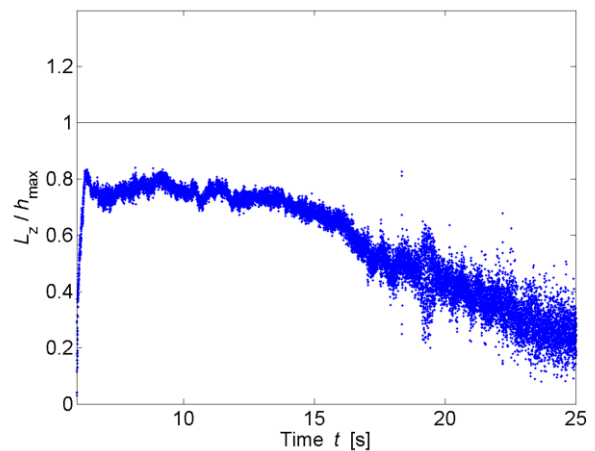
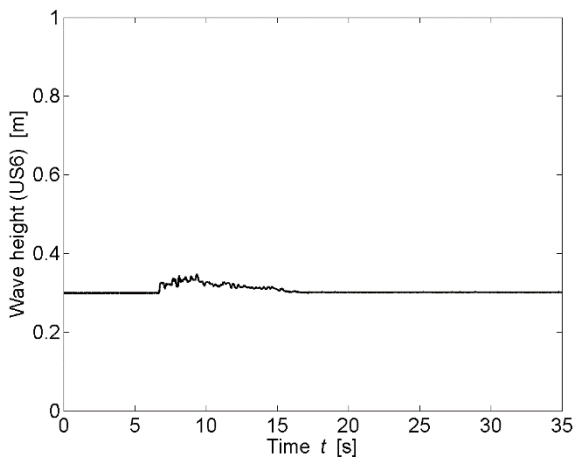
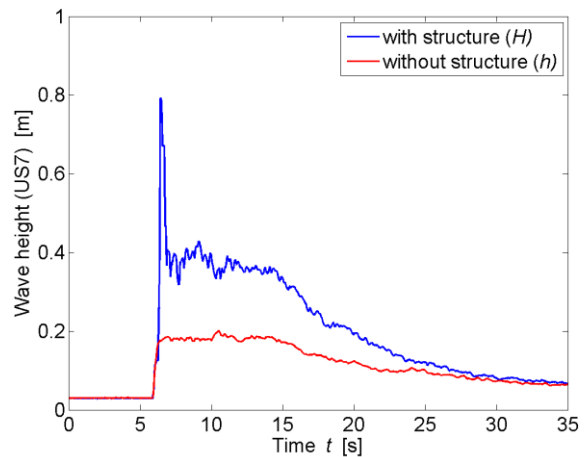
TEST PARAMETERS

Name	B17_B_WW3_2P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	17.25	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.507	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.792	[m]

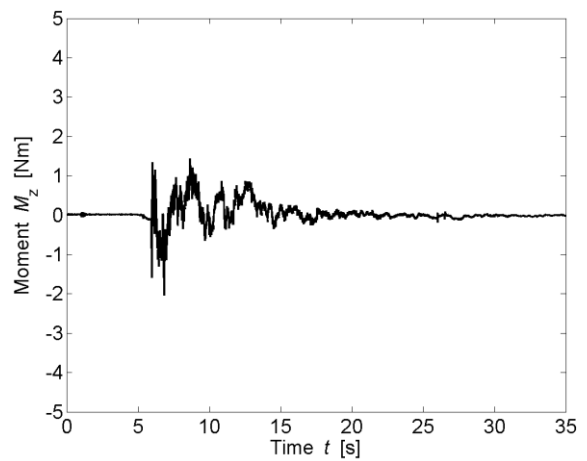
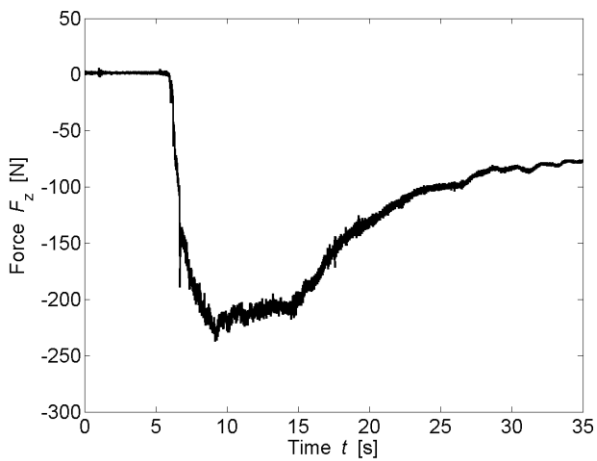
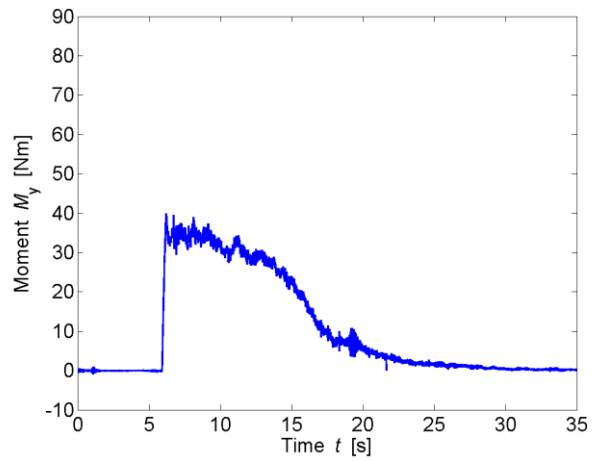
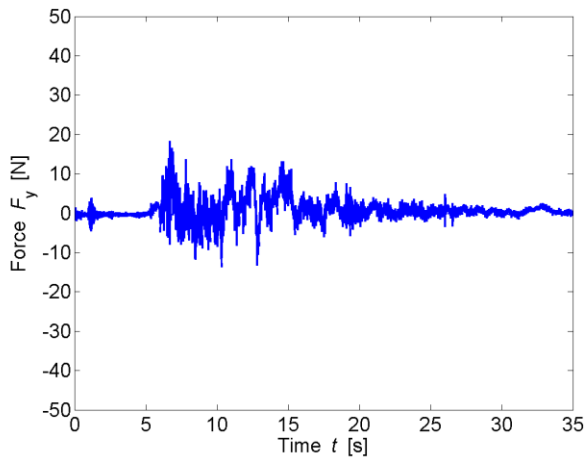
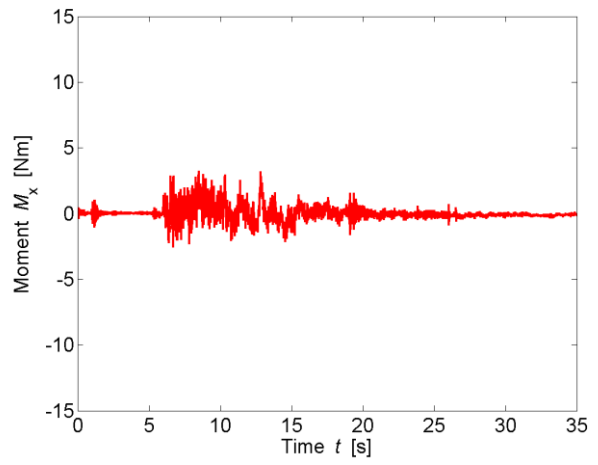
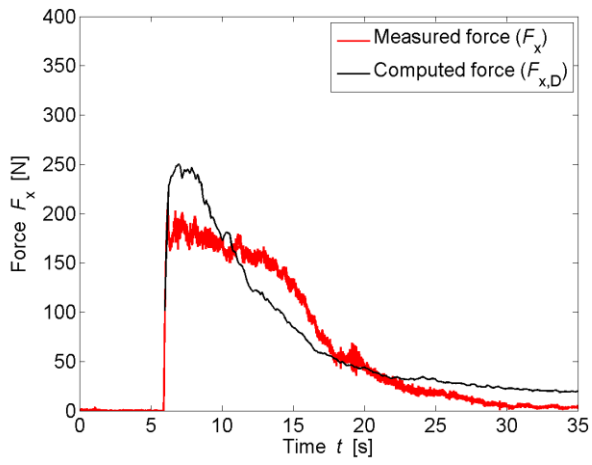


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.585	207.361	[N]
F_y	-13.749	18.260	[N]
F_z	-237.106	0.000	[N]
M_x	-2.541	3.252	[Nm]
M_y	-0.991	39.916	[Nm]
M_z	-2.034	1.432	[Nm]
Predicted Force	$F_{x,D,max}$	242.846	[N]
Initial time	t_0	5.964	[s]
Time to peak	τ_{max}	0.251	[s]
Total impulse	I_{tot}	2049.098	[Ns]
Peak Impulse	I_{peak}	38.208	[Ns]
Relative impulse	I^*	0.020	[-]
Wave height at $F_{x,max}$	h_M	0.766	[-]
Resistance coefficient	C_R	1.977	[-]

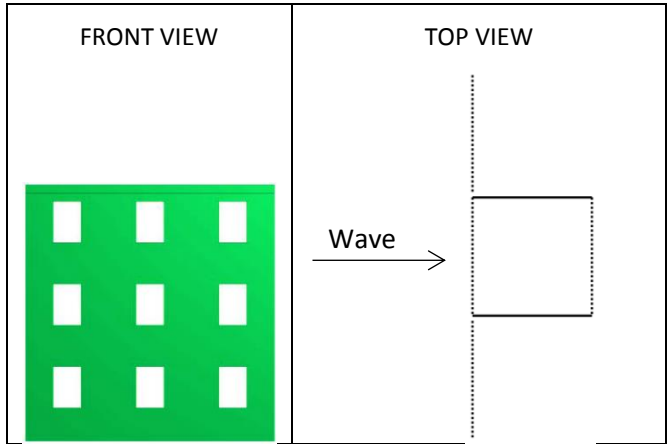


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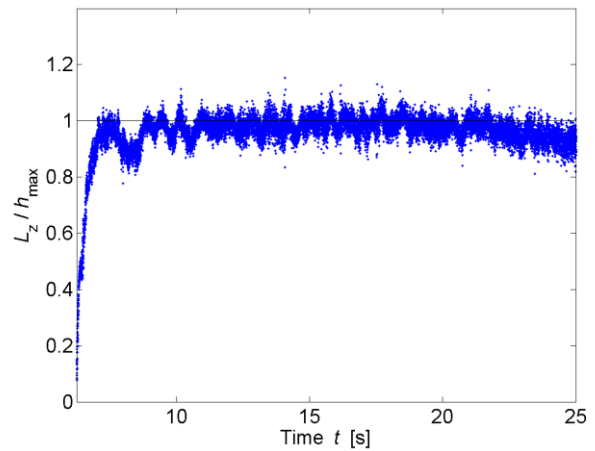
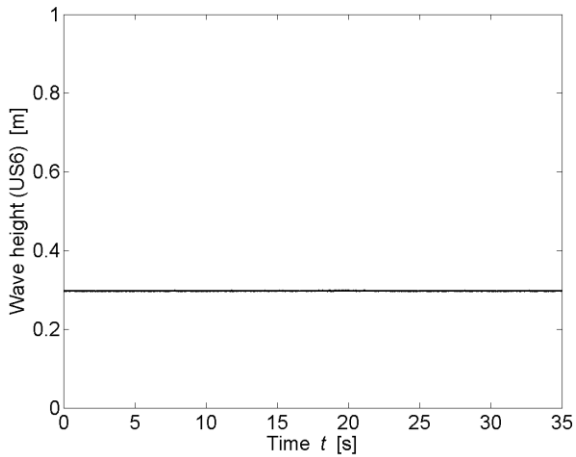
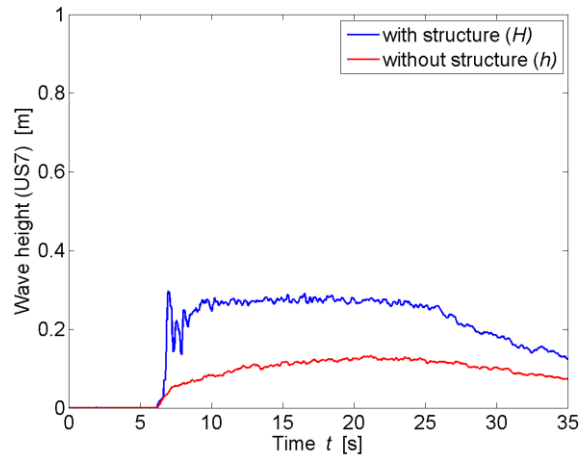
TEST PARAMETERS

Name	B17_S_WD1_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	13.31	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.364	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.298	[m]

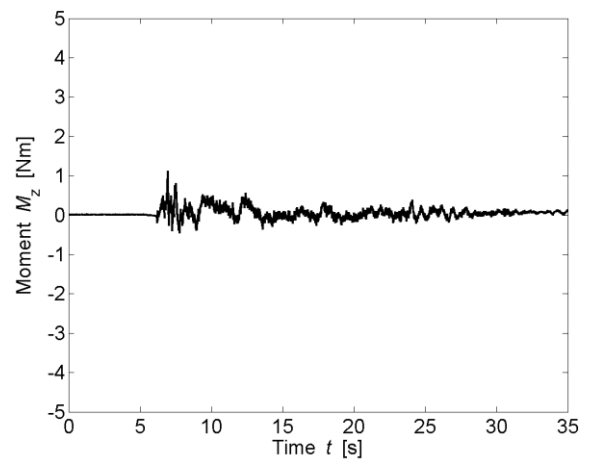
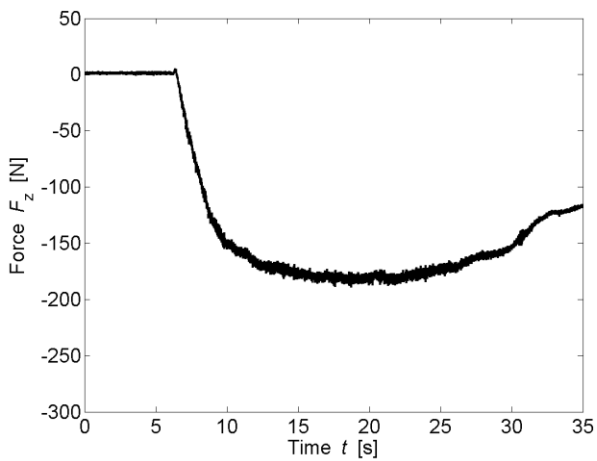
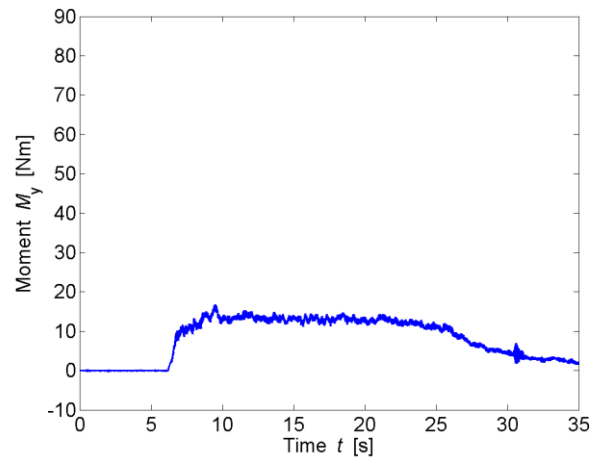
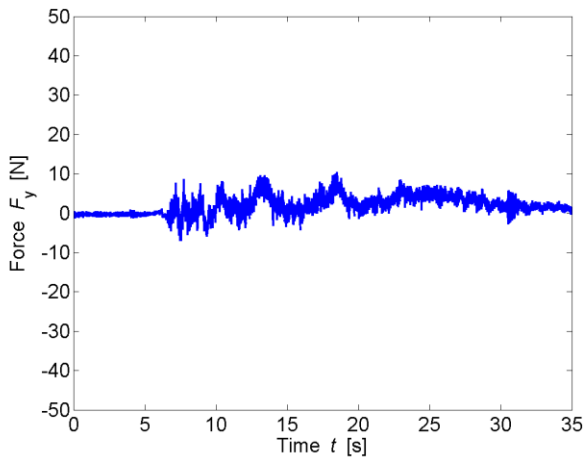
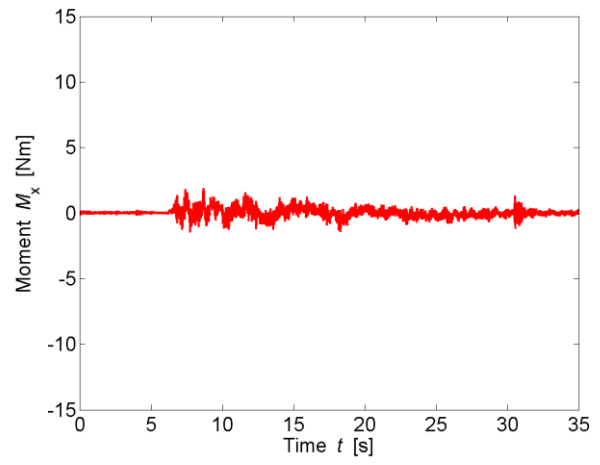
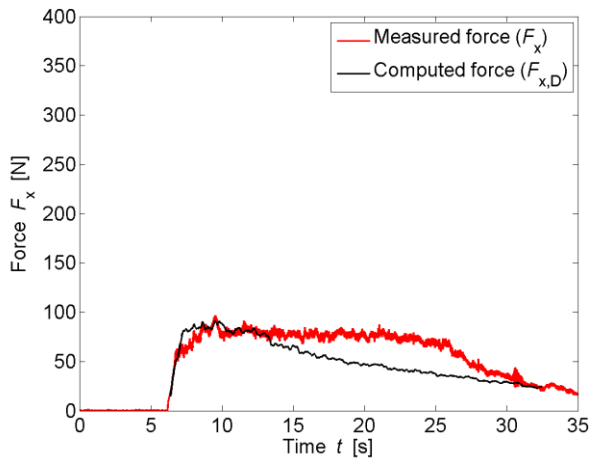


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.601	96.989	[N]
F_y	-7.019	10.405	[N]
F_z	-189.220	5.419	[N]
M_x	-1.444	1.904	[Nm]
M_y	-0.468	16.748	[Nm]
M_z	-0.451	1.120	[Nm]
Predicted Force	$F_{x,D,max}$	91.108	[N]
Initial time	t_0	6.282	[s]
Time to peak	τ_{max}	3.279	[s]
Total impulse	I_{tot}	1501.427	[Ns]
Peak Impulse	I_{peak}	218.499	[Ns]
Relative impulse	I^*	0.140	[-]
Wave height at $F_{x,max}$	h_M	0.607	[-]
Resistance coefficient	C_R	2.159	[-]

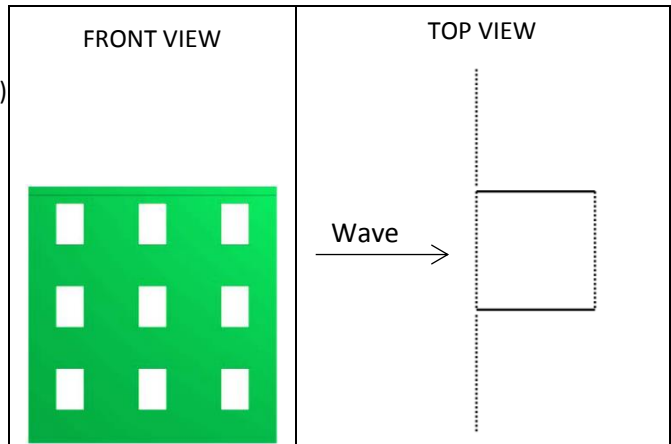


* All parameters are presented and defined at the beginning of the Appendix



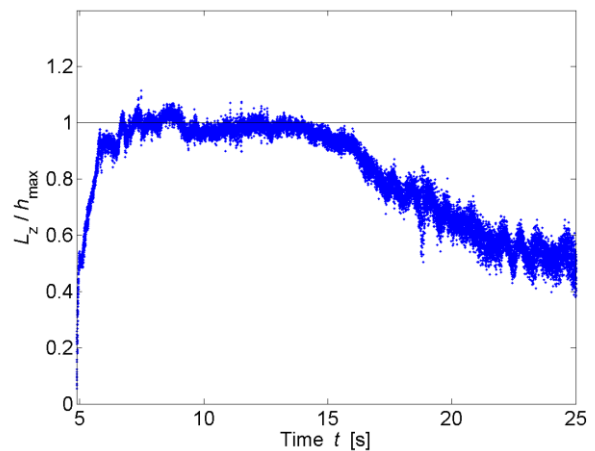
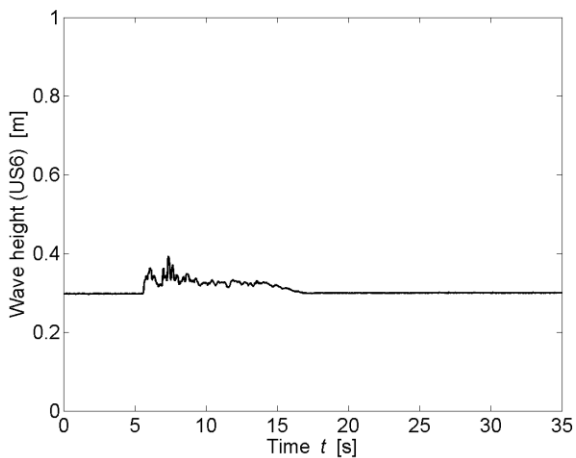
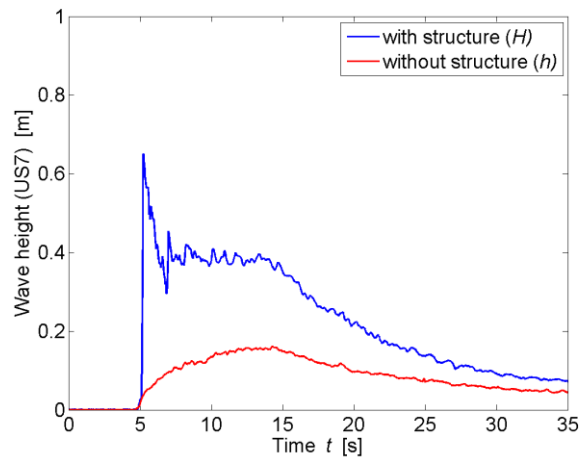
TEST PARAMETERS

Name	B17_S_WD2_ 1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	16.68	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.071	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.650	[m]

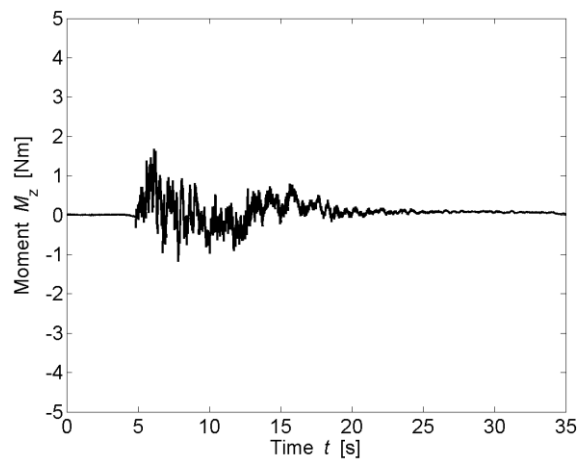
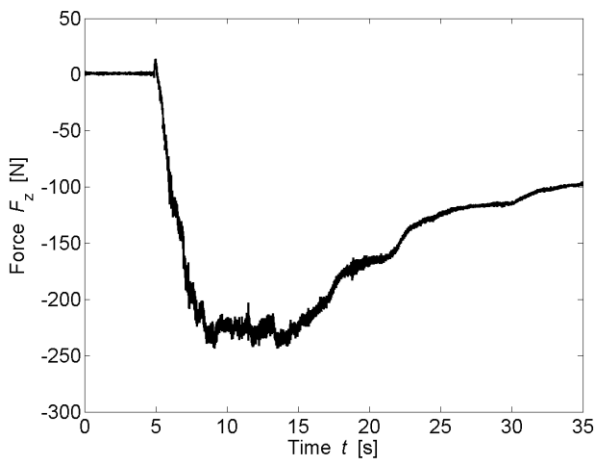
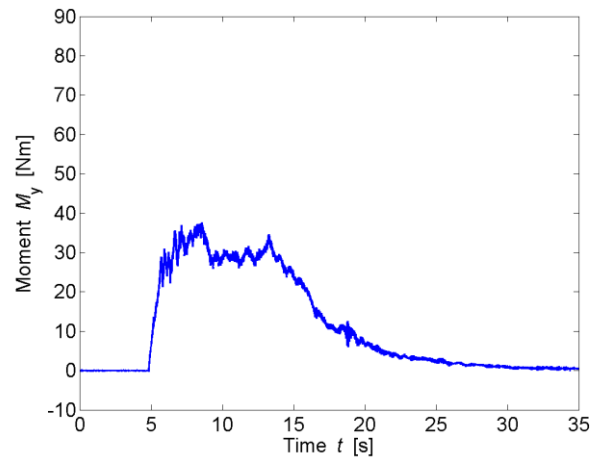
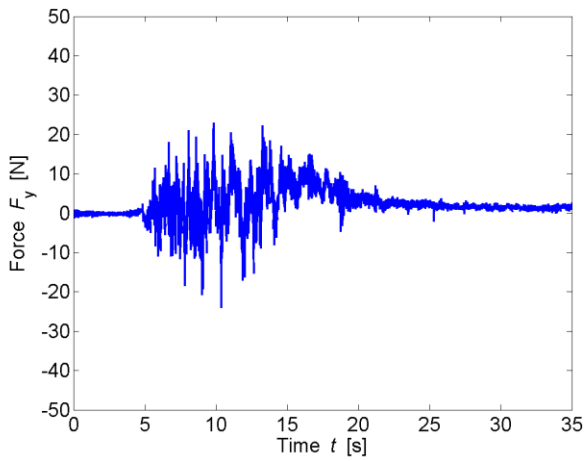
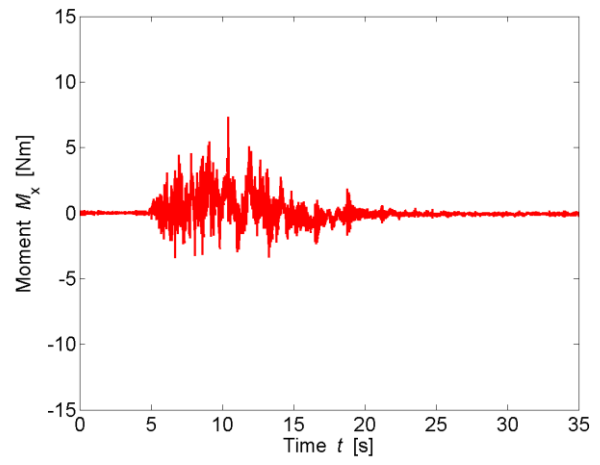
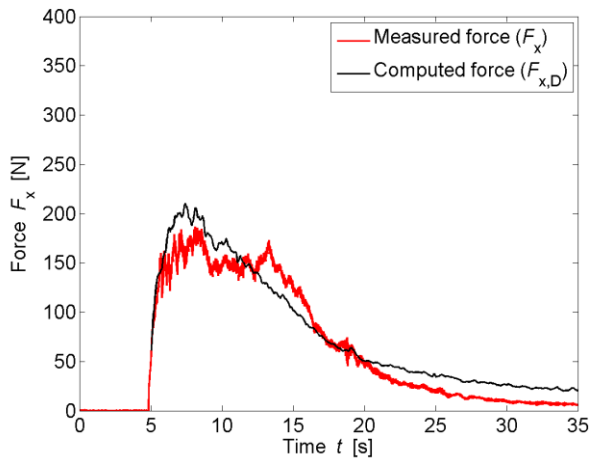


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.754	186.409	[N]
F_y	-23.979	22.910	[N]
F_z	-243.572	13.853	[N]
M_x	-3.406	7.332	[Nm]
M_y	-1.043	37.679	[Nm]
M_z	-1.183	1.687	[Nm]
Predicted Force	$F_{x,D,max}$	211.447	[N]
Initial time	t_0	4.921	[s]
Time to peak	τ_{max}	3.210	[s]
Total impulse	I_{tot}	2106.045	[Ns]
Peak Impulse	I_{peak}	458.050	[Ns]
Relative impulse	I^*	0.235	[-]
Wave height at $F_{x,max}$	h_M	0.733	[-]
Resistance coefficient	C_R	1.728	[-]

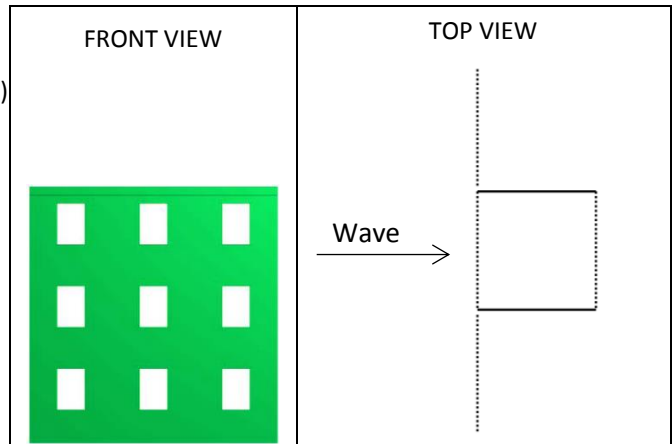


* All parameters are presented and defined at the beginning of the Appendix



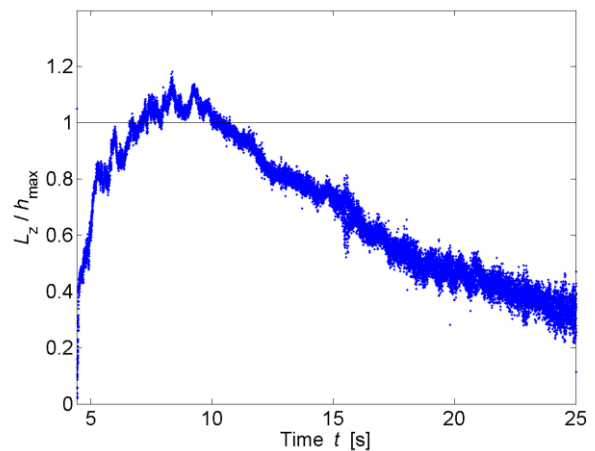
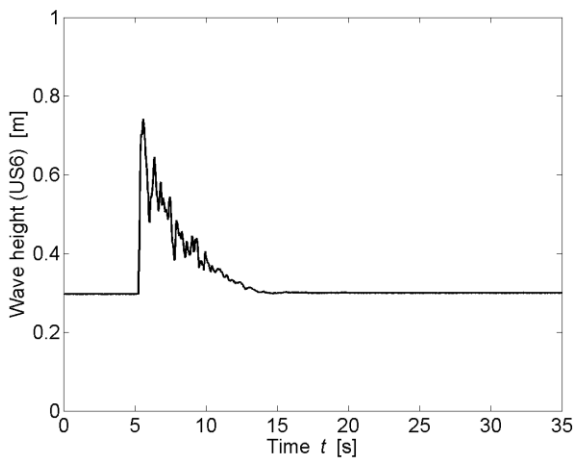
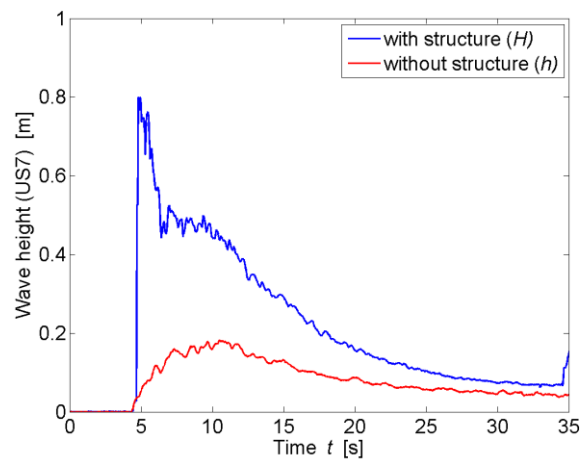
TEST PARAMETERS

Name	B17_S_WD3_ 1		
Repetitions	A		
Configuration	With side building (S)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	18.808	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.558	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.803	[m]

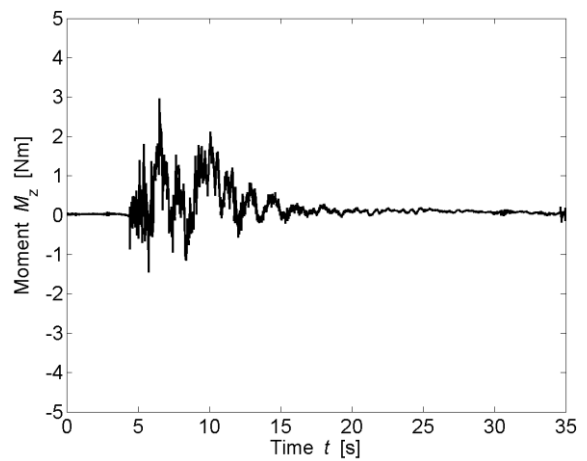
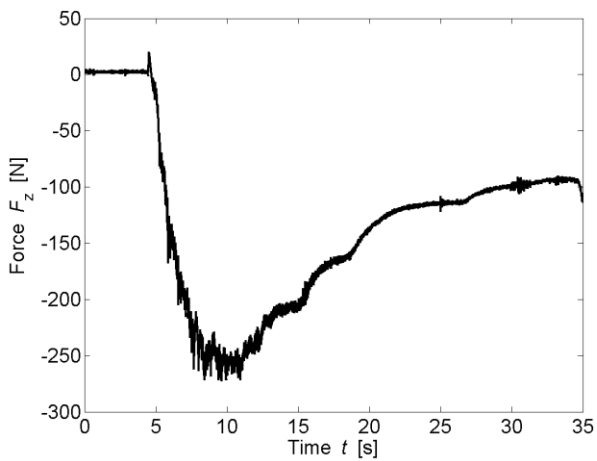
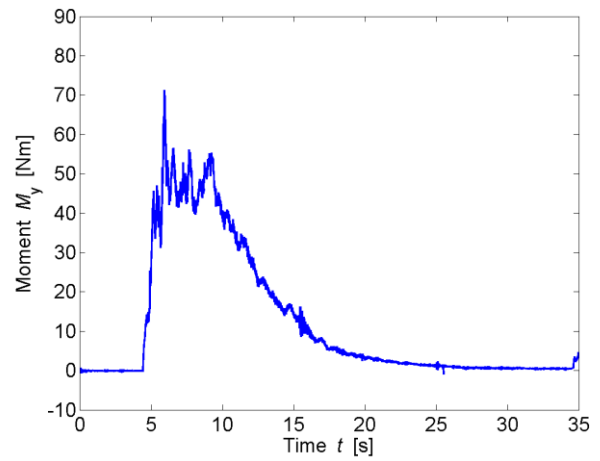
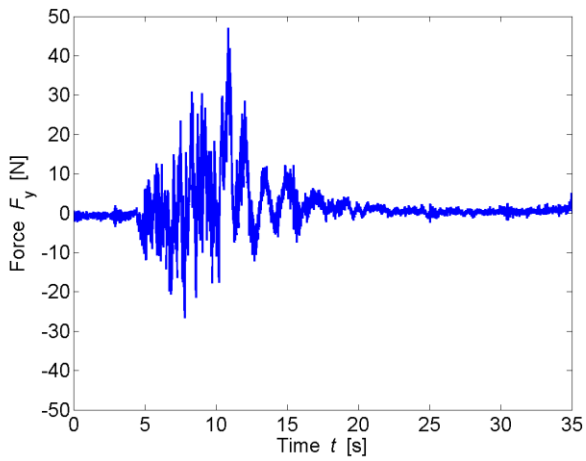
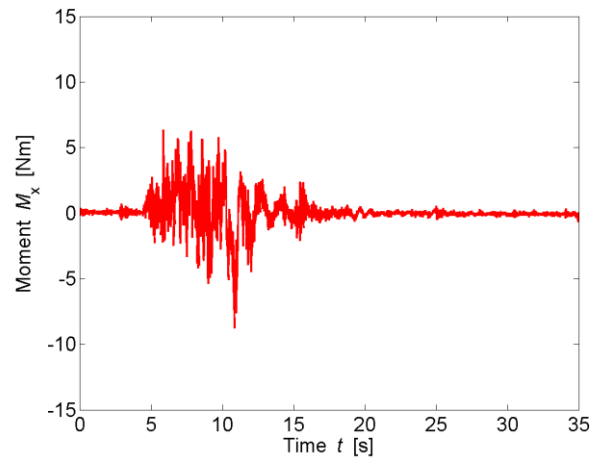
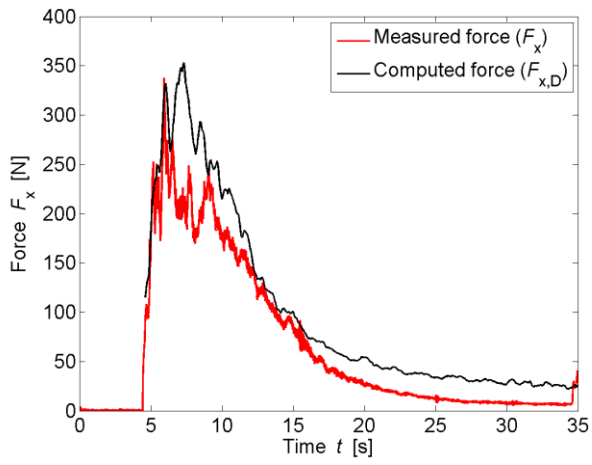


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.105	337.592	[N]
F_y	-26.568	47.044	[N]
F_z	-272.732	20.210	[N]
M_x	-8.782	6.362	[Nm]
M_y	-1.124	71.307	[Nm]
M_z	-1.446	2.967	[Nm]
Predicted Force	$F_{x,D,max}$	354.467	[N]
Initial time	t_0	4.473	[s]
Time to peak	τ_{max}	1.480	[s]
Total impulse	I_{tot}	2178.344	[Ns]
Peak Impulse	I_{peak}	262.807	[Ns]
Relative impulse	I^*	0.132	[-]
Wave height at $F_{x,max}$	h_M	0.623	[-]
Resistance coefficient	C_R	1.904	[-]

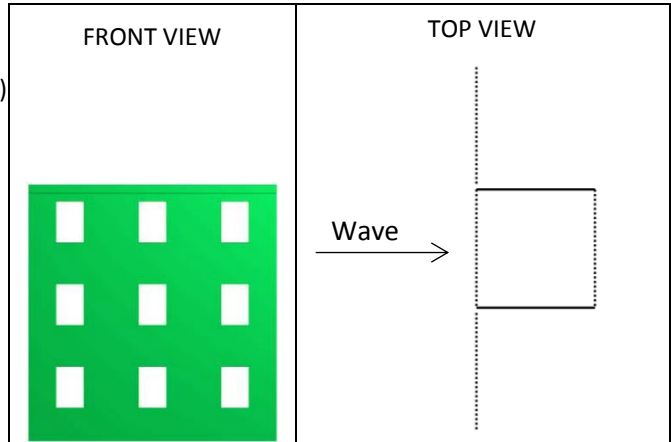


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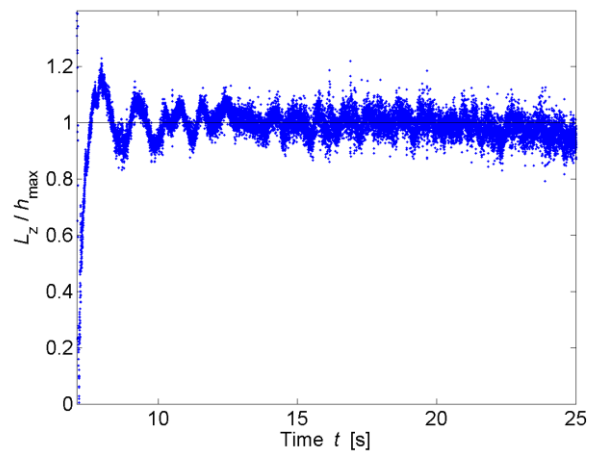
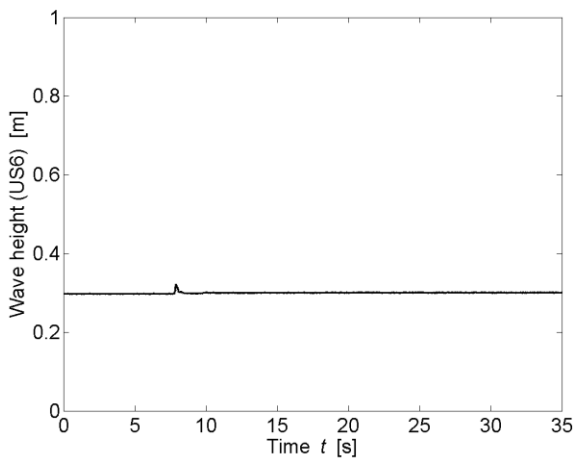
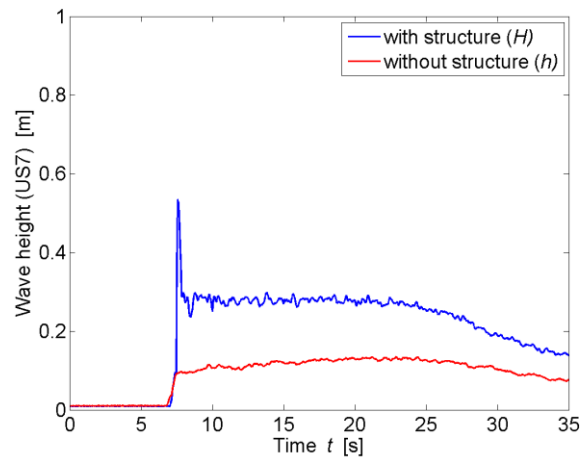
TEST PARAMETERS

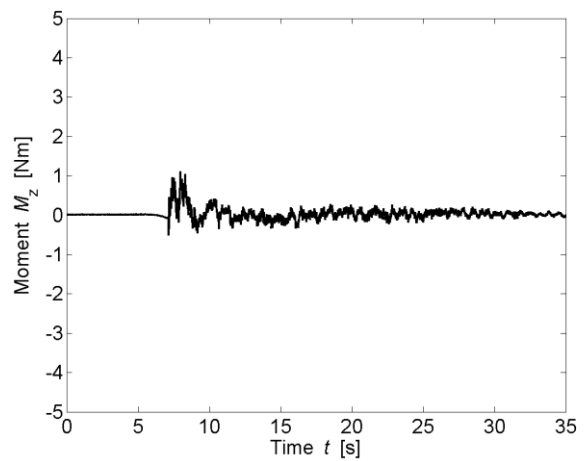
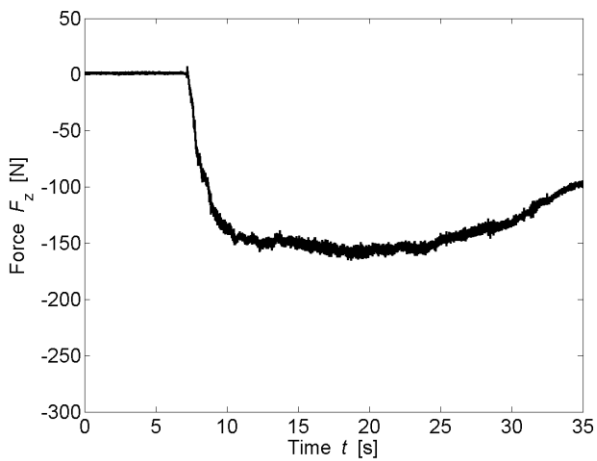
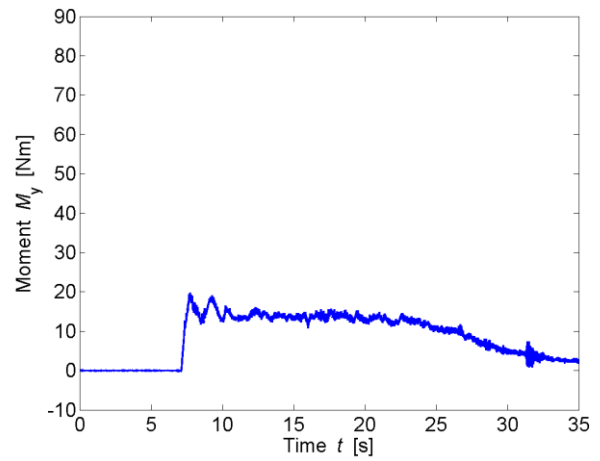
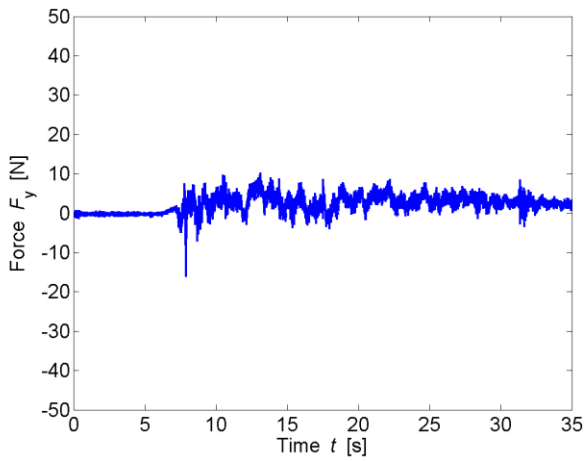
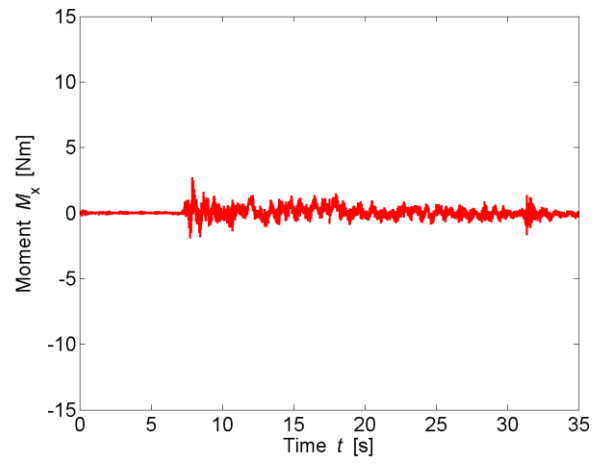
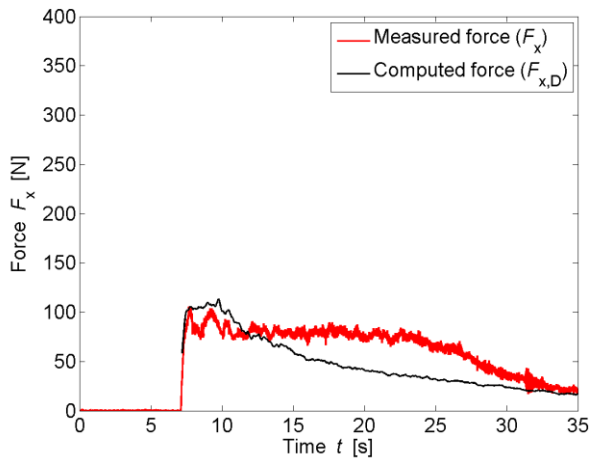
Name	B17_S_WW1_1P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	13.545	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.135	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.535	[m]



IMPACT PARAMETERS

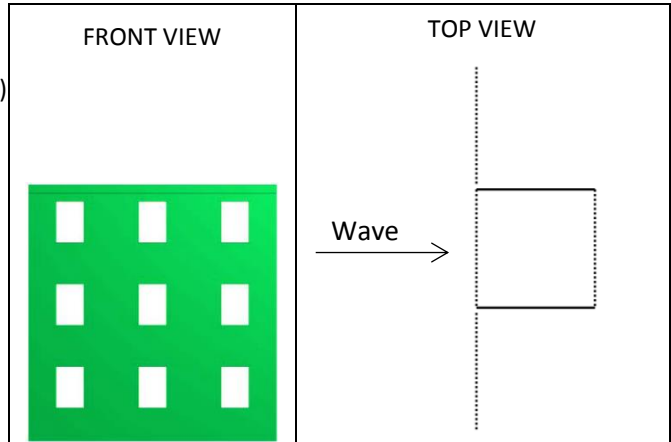
	Min	Max	Unity
F_x	-6.125	106.037	[N]
F_y	-16.099	10.258	[N]
F_z	-165.323	7.293	[N]
M_x	-1.897	2.712	[Nm]
M_y	-1.606	19.819	[Nm]
M_z	-0.507	1.112	[Nm]
Predicted Force	$F_{x,D,max}$	113.608	[N]
Initial time	t_0	7.119	[s]
Time to peak	τ_{max}	0.640	[s]
Total impulse	I_{tot}	1549.341	[Ns]
Peak Impulse	I_{peak}	45.047	[Ns]
Relative impulse	I^*	0.028	[-]
Wave height at $F_{x,max}$	h_M	0.714	[-]
Resistance coefficient	C_R	2.002	[-]





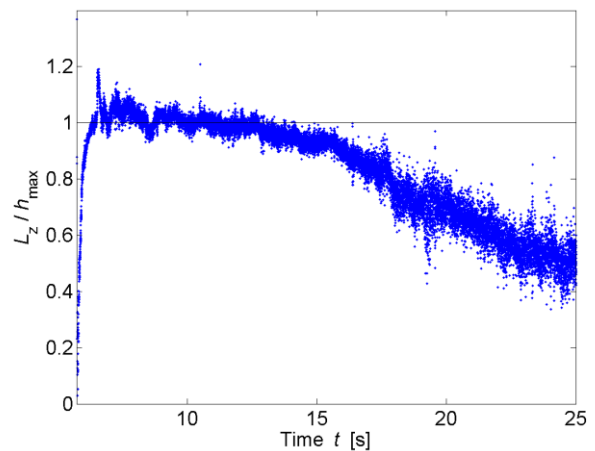
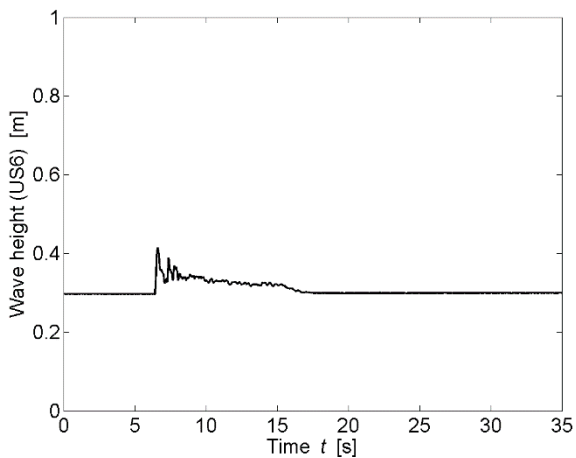
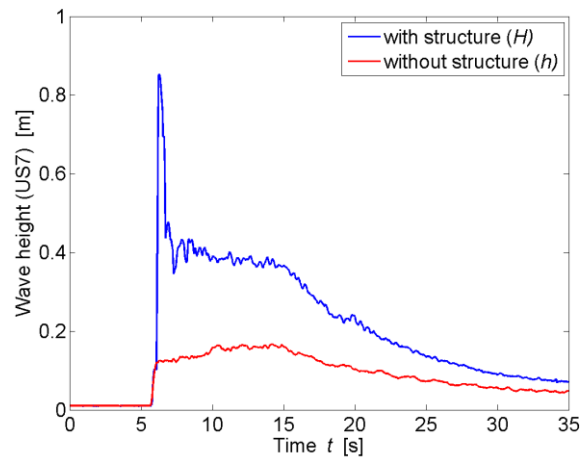
TEST PARAMETERS

Name	B17_S_WW1_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	17.38	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.688	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.853	[m]

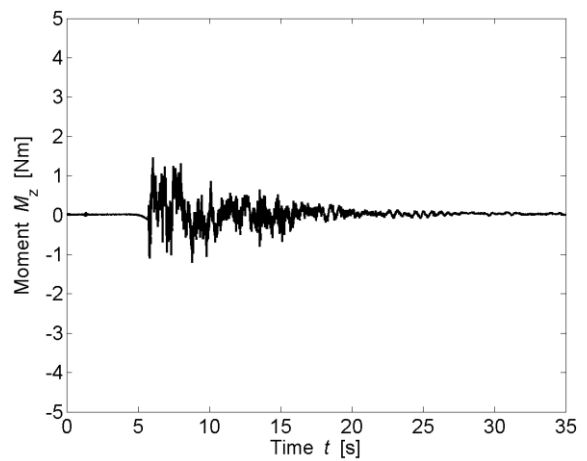
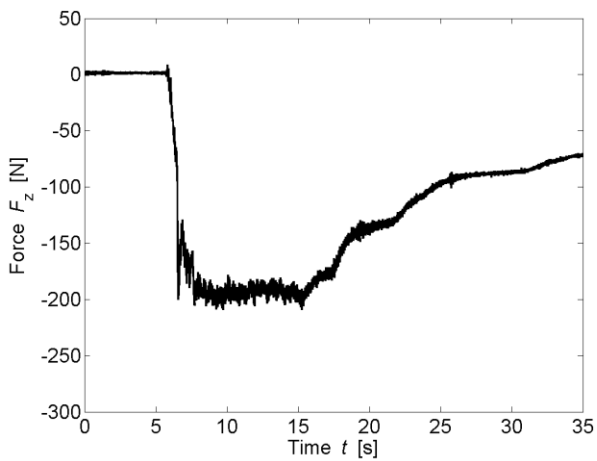
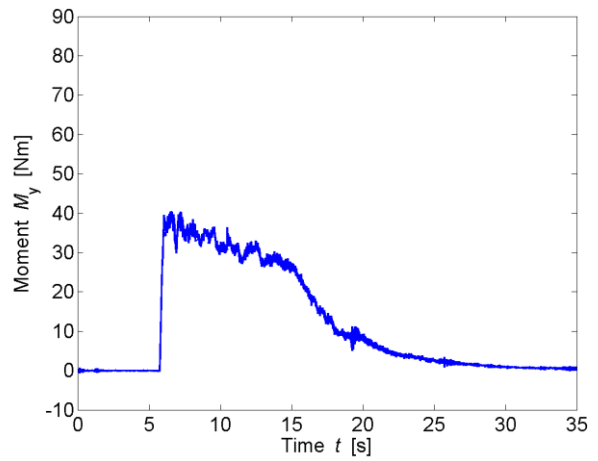
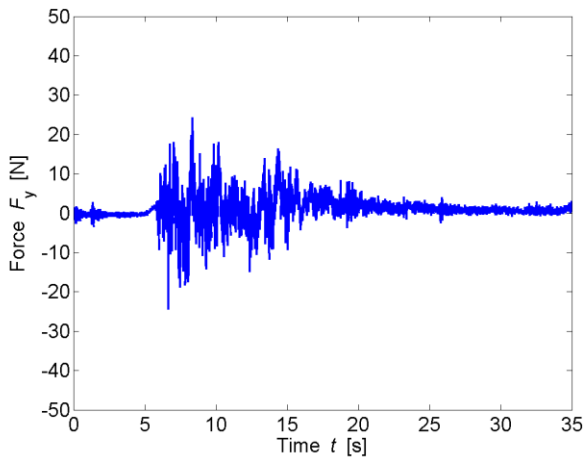
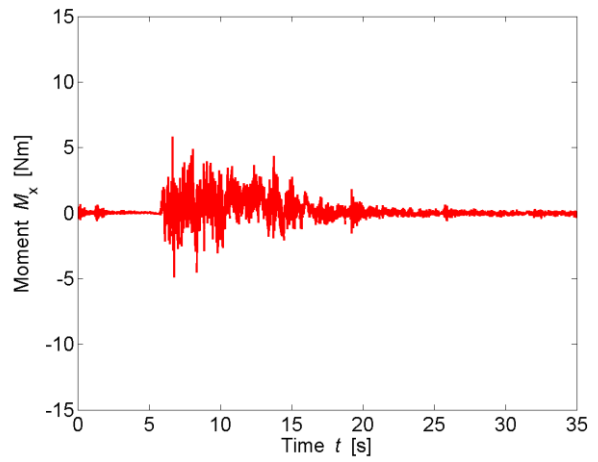
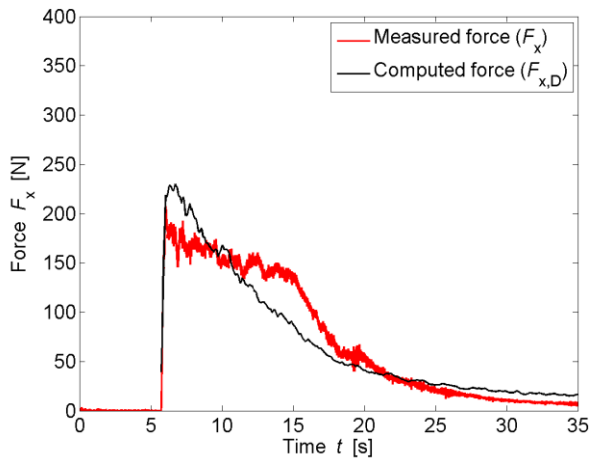


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.488	207.409	[N]
F_y	-24.468	24.305	[N]
F_z	-209.274	8.793	[N]
M_x	-4.897	5.837	[Nm]
M_y	-1.708	40.303	[Nm]
M_z	-1.210	1.468	[Nm]
Predicted Force	$F_{x,D,max}$	230.854	[N]
Initial time	t_0	5.773	[s]
Time to peak	τ_{max}	0.289	[s]
Total impulse	I_{tot}	2093.239	[Ns]
Peak Impulse	I_{peak}	38.896	[Ns]
Relative impulse	I^*	0.020	[-]
Wave height at $F_{x,max}$	h_M	0.709	[-]
Resistance coefficient	C_R	1.817	[-]

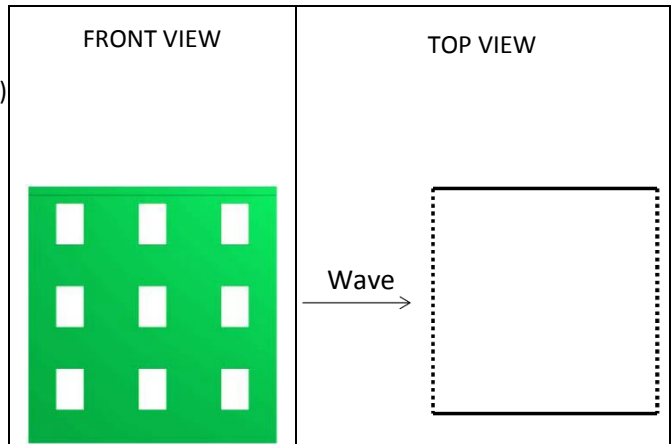


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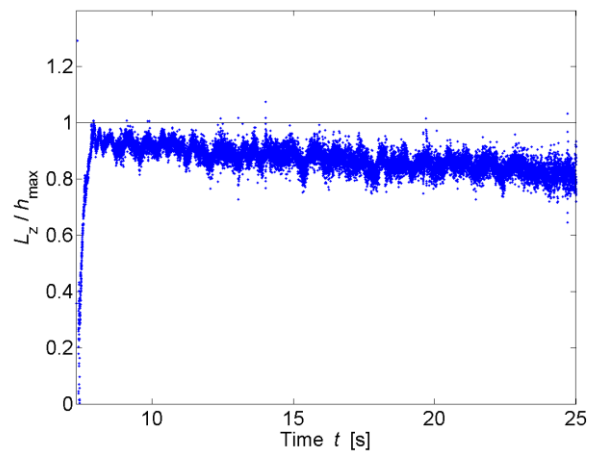
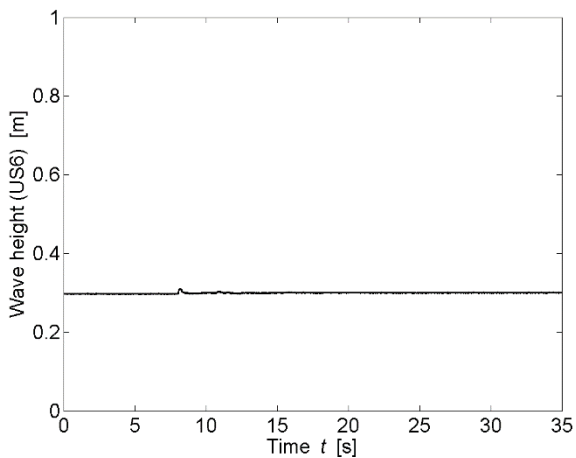
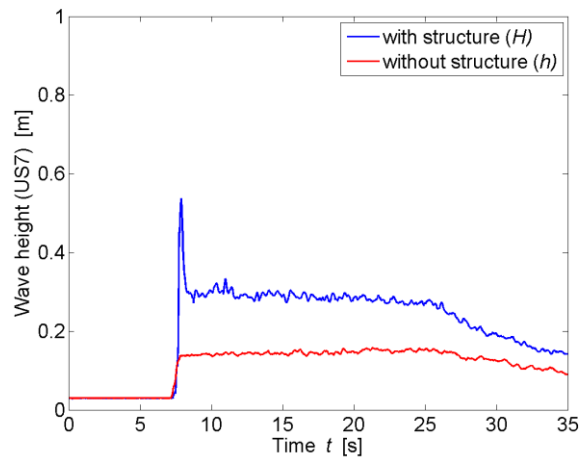
TEST PARAMETERS

Name	B17_S_WW3_1P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	16.33	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.973	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.279	[m]

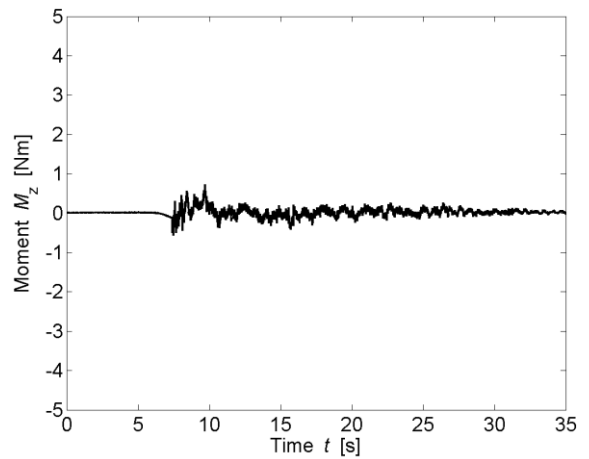
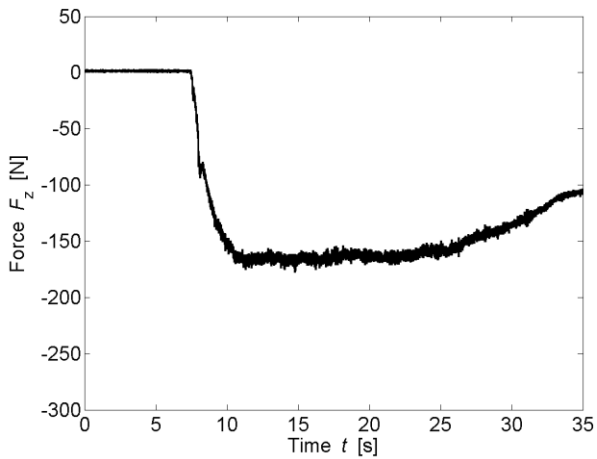
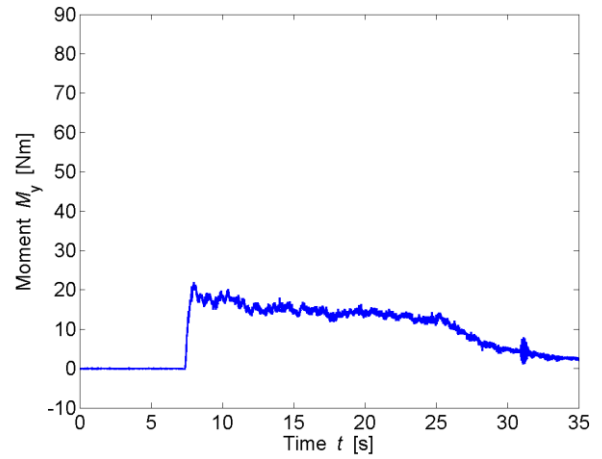
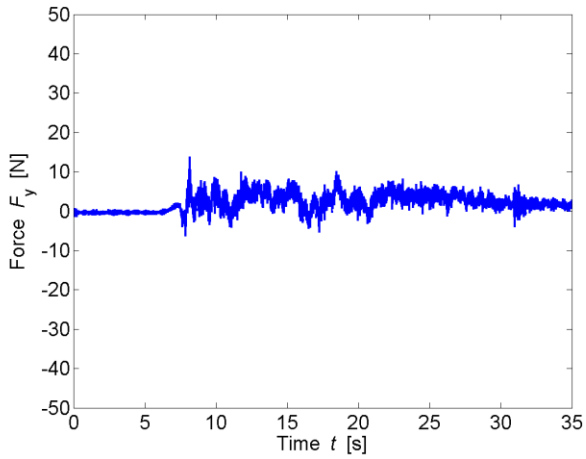
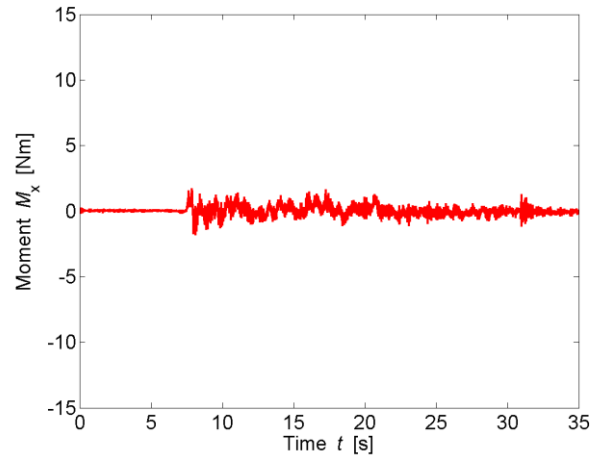
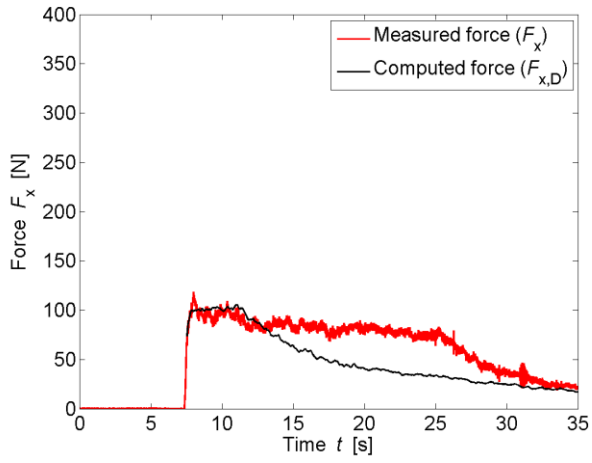


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.294	118.715	[N]
F_y	-6.285	13.782	[N]
F_z	-177.505	2.420	[N]
M_x	-1.811	1.730	[Nm]
M_y	-0.714	21.881	[Nm]
M_z	-0.572	0.722	[Nm]
Predicted Force	$F_{x,D,max}$	105.958	[N]
Initial time	t_0	7.378	[s]
Time to peak	τ_{max}	0.640	[s]
Total impulse	I_{tot}	1645.414	[Ns]
Peak Impulse	I_{peak}	49.937	[Ns]
Relative impulse	I^*	0.030	[-]
Wave height at $F_{x,max}$	h_M	0.861	[-]
Resistance coefficient	C_R	2.244	[-]

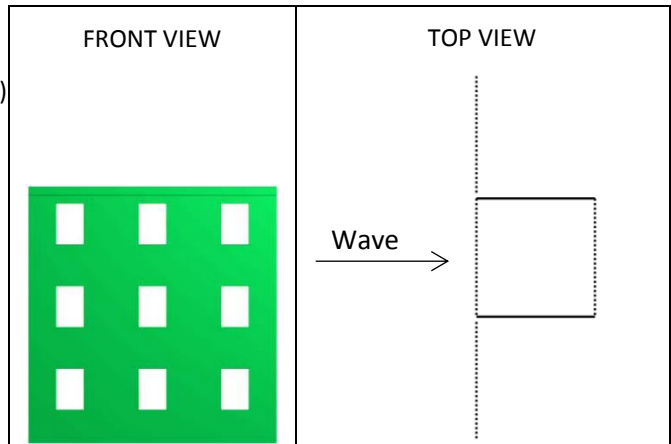


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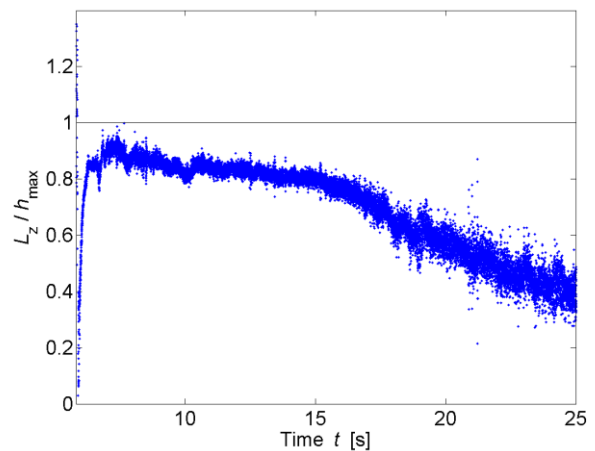
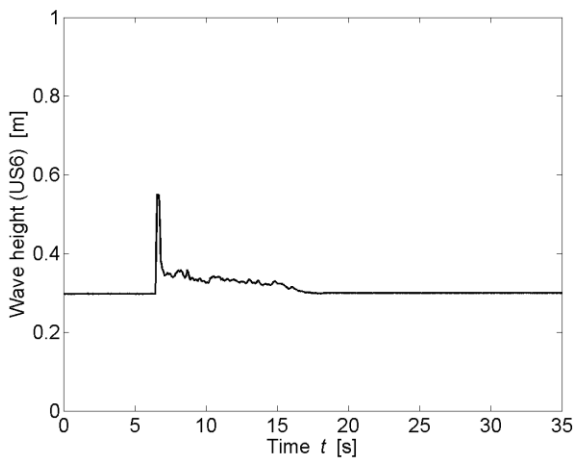
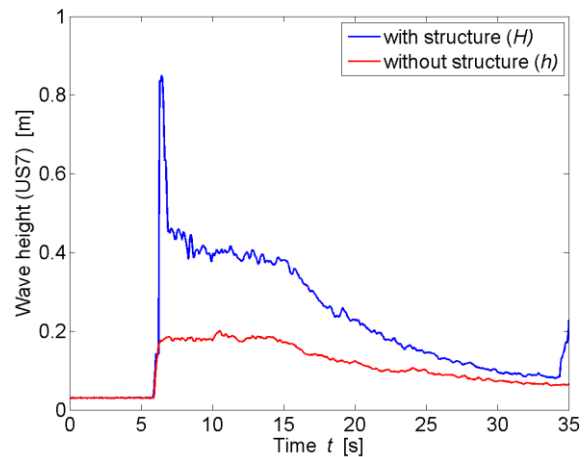
TEST PARAMETERS

Name	B17_S_WW3_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	17	[%]
Porosity at h_{max}	$P_{h,max}$	17.25	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.544	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.851	[m]

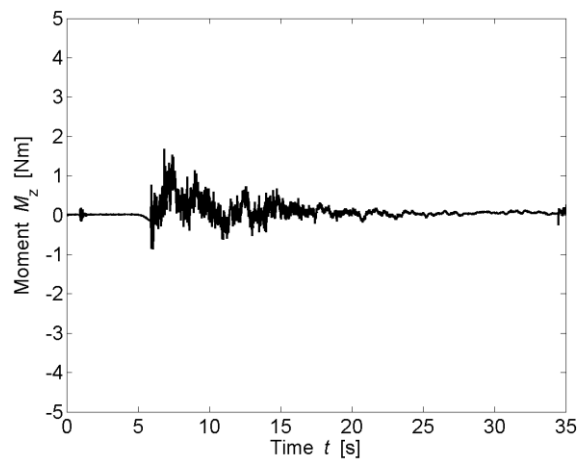
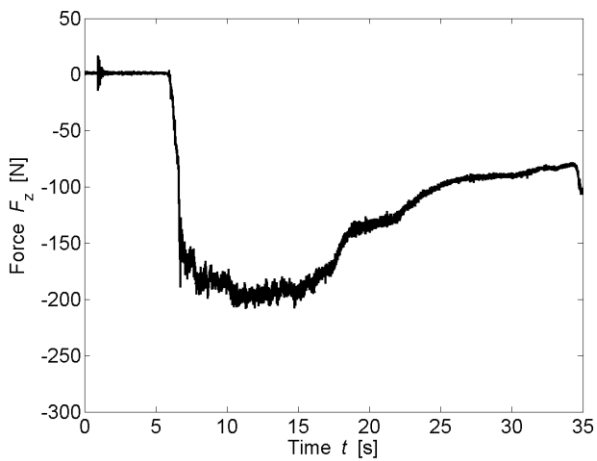
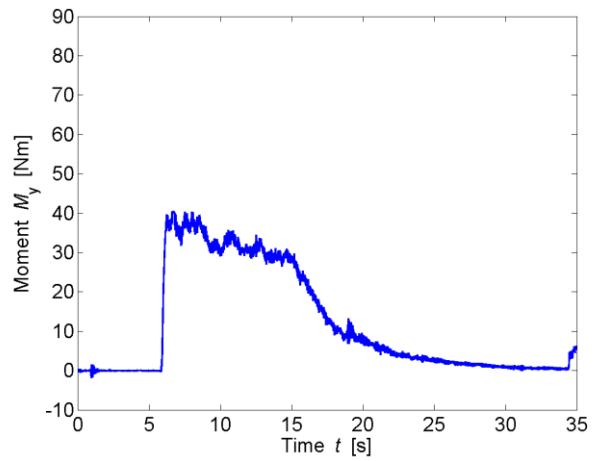
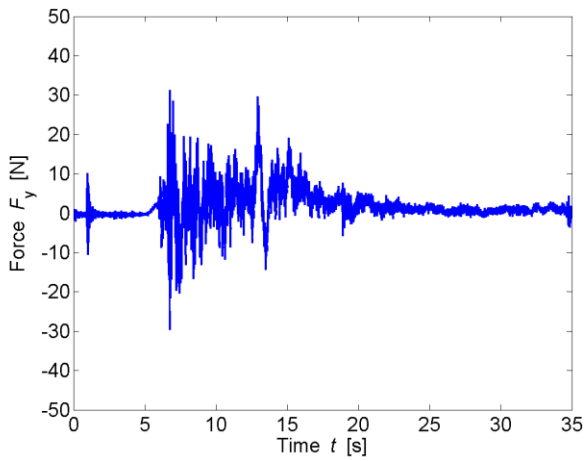
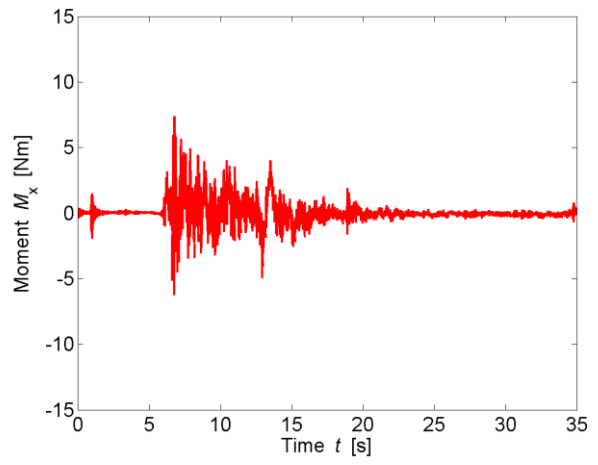
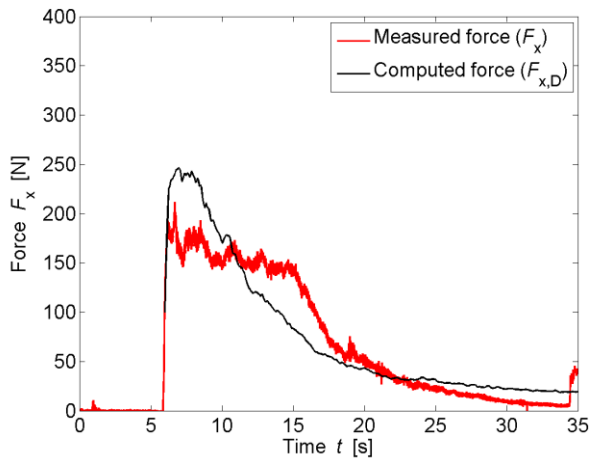


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-11.109	211.740	[N]
F_y	-29.583	31.231	[N]
F_z	-208.337	3.826	[N]
M_x	-6.223	7.384	[Nm]
M_y	-1.831	40.381	[Nm]
M_z	-0.863	1.689	[Nm]
Predicted Force	$F_{x,D,max}$	247.383	[N]
Initial time	t_0	5.882	[s]
Time to peak	τ_{max}	0.818	[s]
Total impulse	I_{tot}	2103.145	[Ns]
Peak Impulse	I_{peak}	130.270	[Ns]
Relative impulse	I^*	0.067	[-]
Wave height at $F_{x,max}$	h_M	0.904	[-]
Resistance coefficient	C_R	1.693	[-]

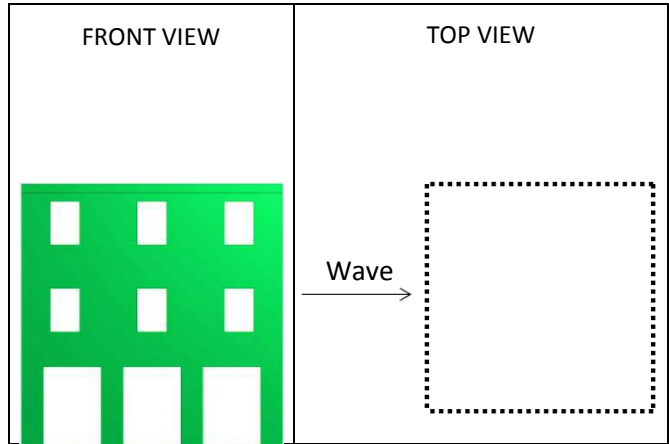


* All parameters are presented and defined at the beginning of the Appendix



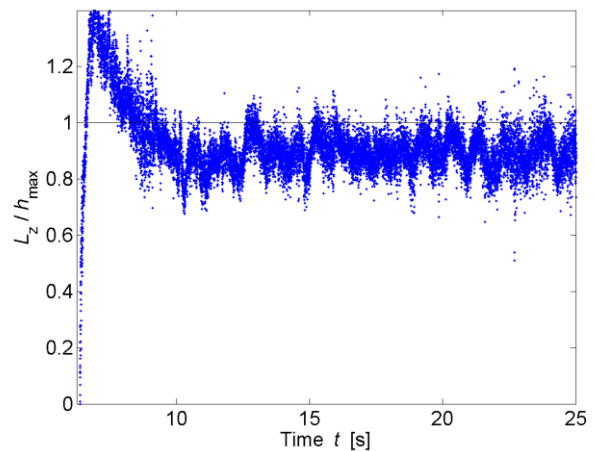
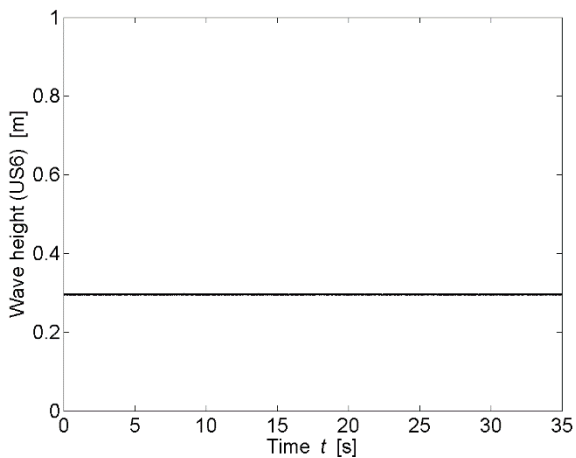
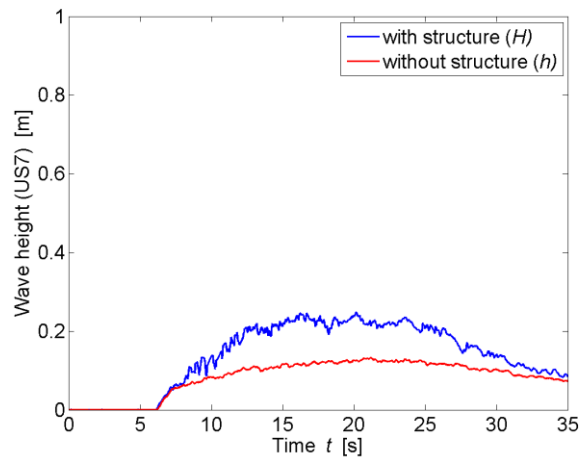
TEST PARAMETERS

Name	B31.34_0_WD1_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	46.04	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.354	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.249	[m]

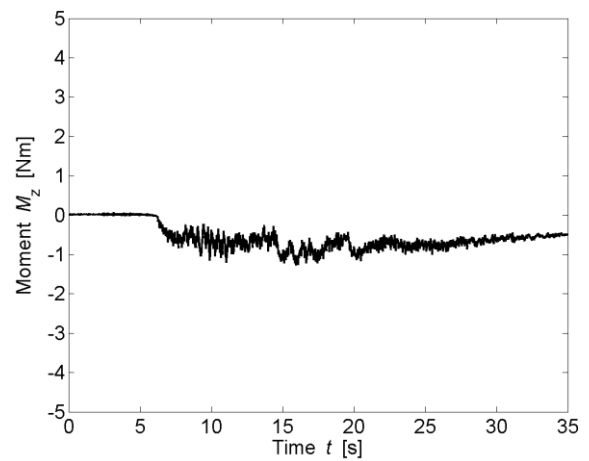
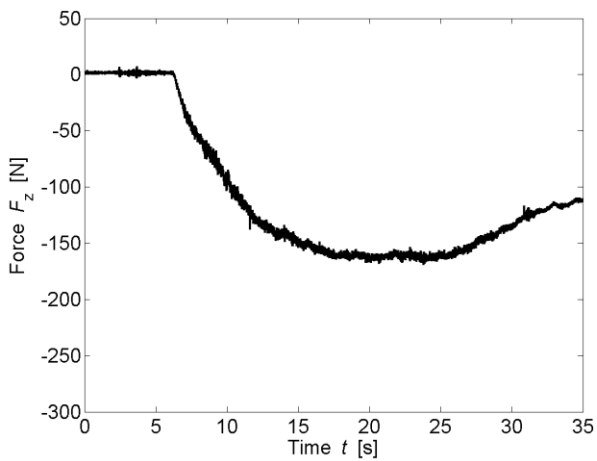
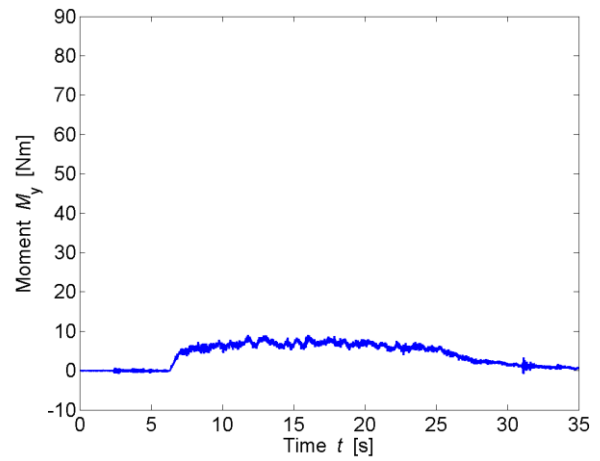
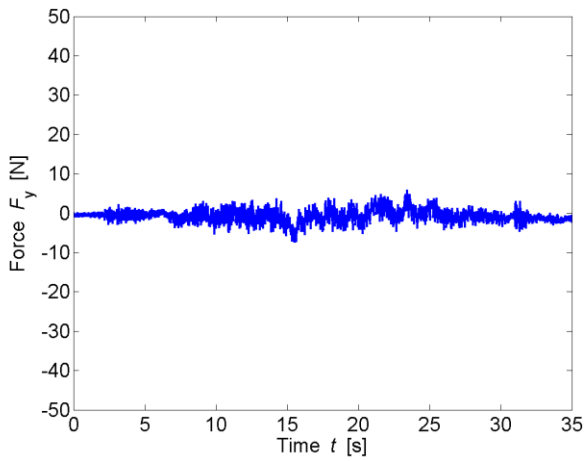
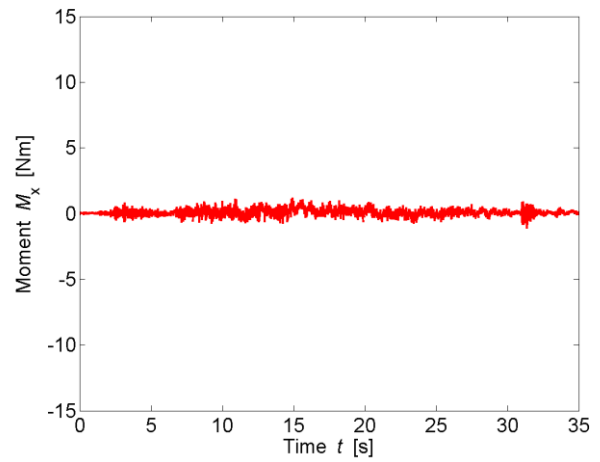
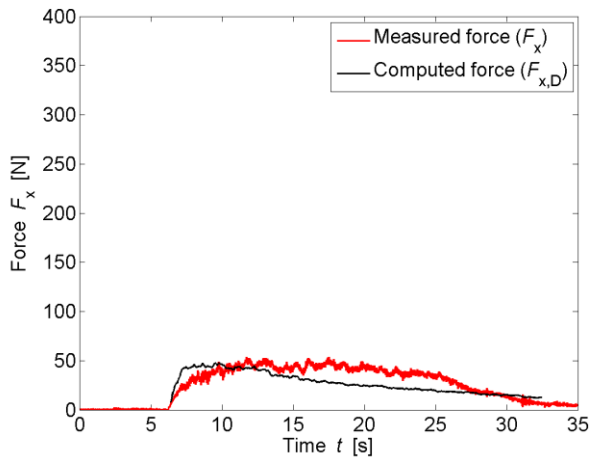


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.690	53.924	[N]
F_y	-7.362	5.902	[N]
F_z	-168.884	0.734	[N]
M_x	-1.137	1.196	[Nm]
M_y	-0.777	8.956	[Nm]
M_z	-1.281	0.077	[Nm]
Predicted Force	$F_{x,D,max}$	47.653	[N]
Initial time	t_0	6.294	[s]
Time to peak	τ_{max}	5.432	[s]
Total impulse	I_{tot}	786.859	[Ns]
Peak Impulse	I_{peak}	179.390	[Ns]
Relative impulse	I^*	0.221	[-]
Wave height at $F_{x,max}$	h_M	0.731	[-]
Resistance coefficient	C_R	1.264	[-]

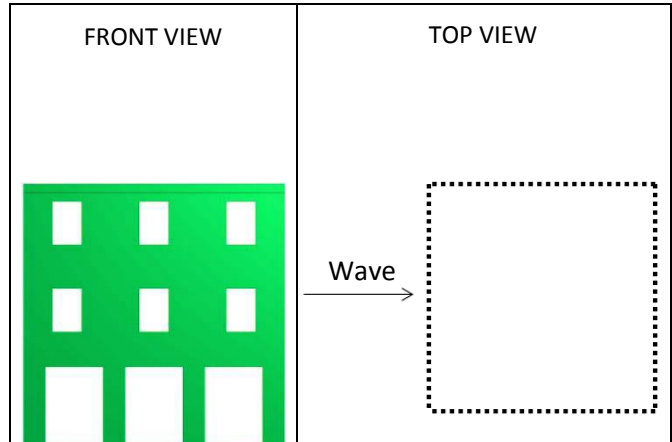


* All parameters are presented and defined at the beginning of the Appendix



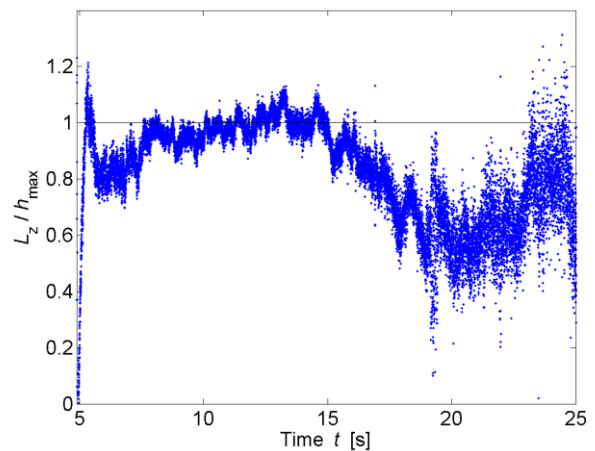
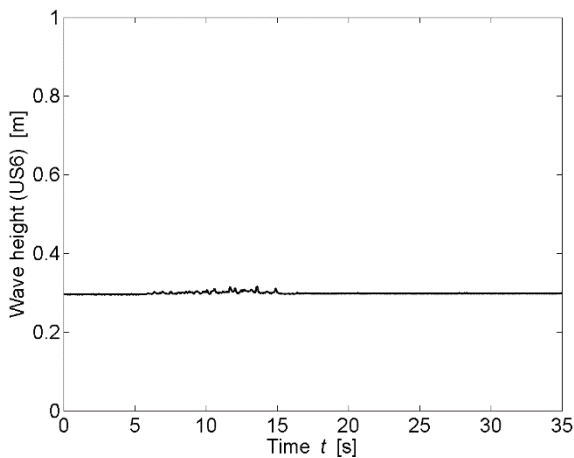
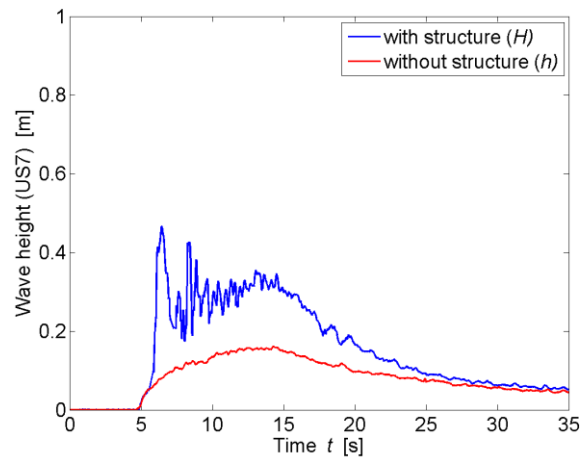
TEST PARAMETERS

Name	B31.34_0_WD2_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	44.08	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.059	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.466	[m]

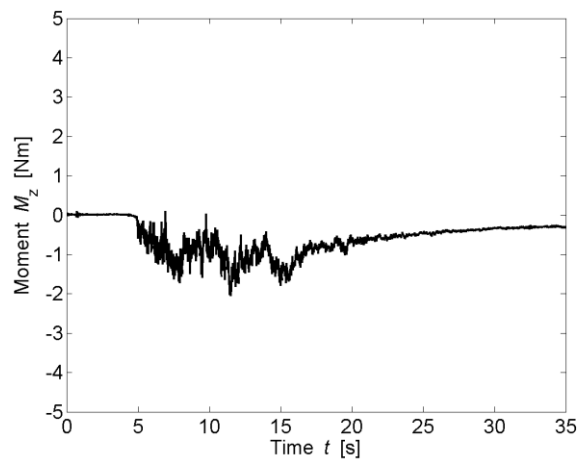
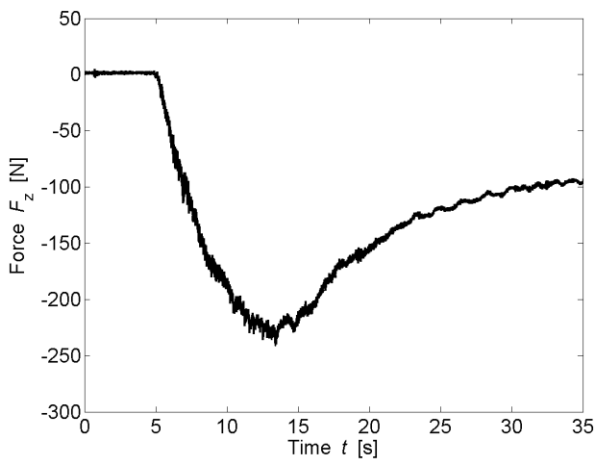
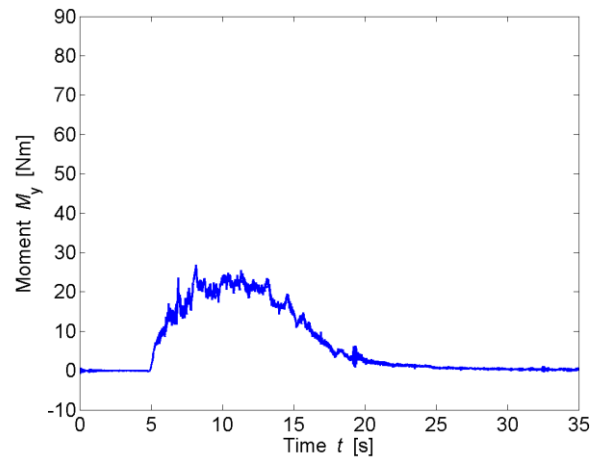
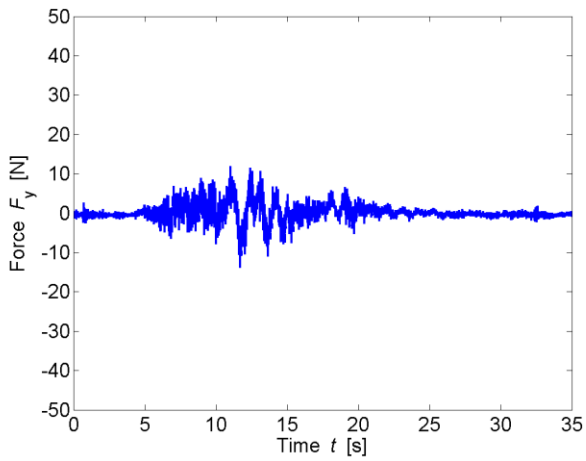
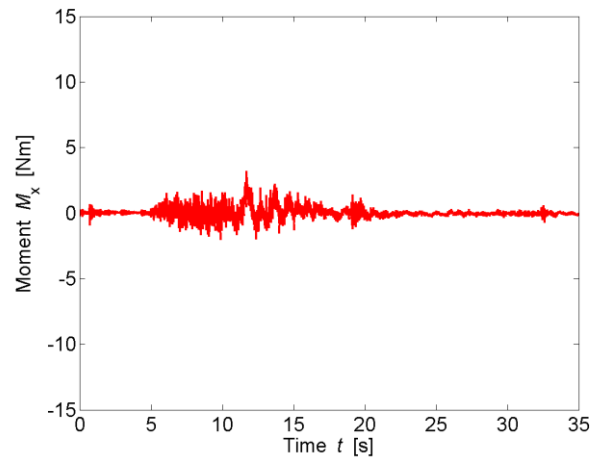
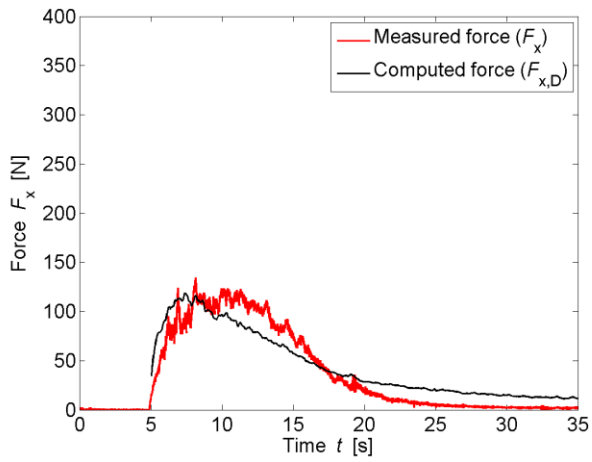


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.641	134.513	[N]
F_y	-13.823	11.947	[N]
F_z	-241.229	2.327	[N]
M_x	-2.004	3.218	[Nm]
M_y	-1.198	26.849	[Nm]
M_z	-2.051	0.106	[Nm]
Predicted Force	$F_{x,D,max}$	118.765	[N]
Initial time	t_0	4.936	[s]
Time to peak	τ_{max}	3.224	[s]
Total impulse	I_{tot}	1222.613	[Ns]
Peak Impulse	I_{peak}	235.797	[Ns]
Relative impulse	I^*	0.200	[-]
Wave height at $F_{x,max}$	h_M	0.737	[-]
Resistance coefficient	C_R	1.239	[-]

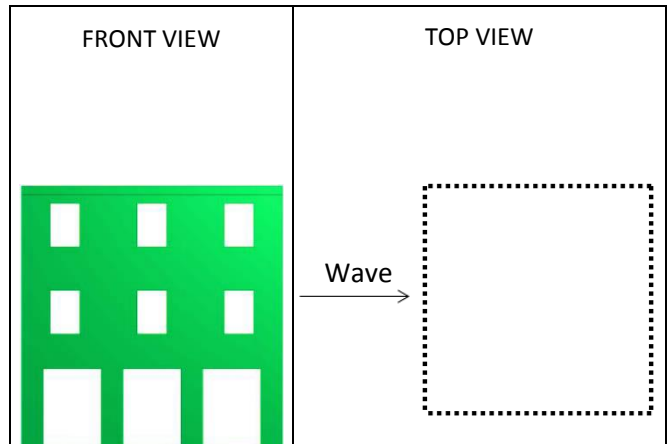


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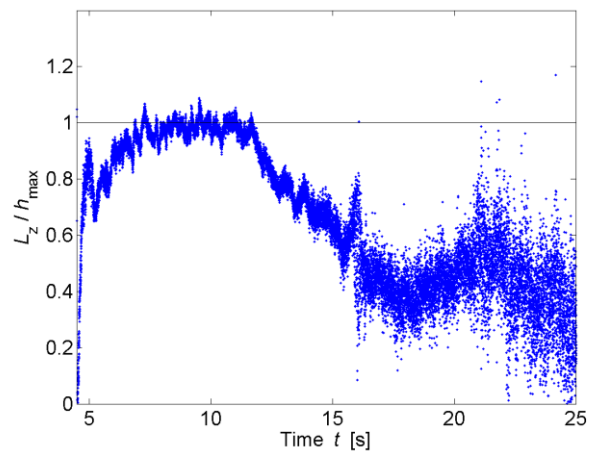
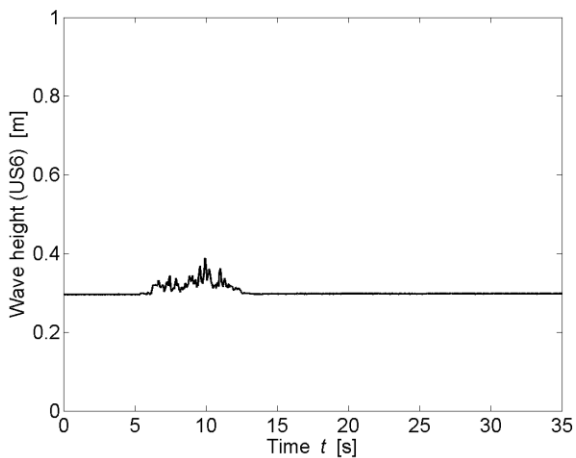
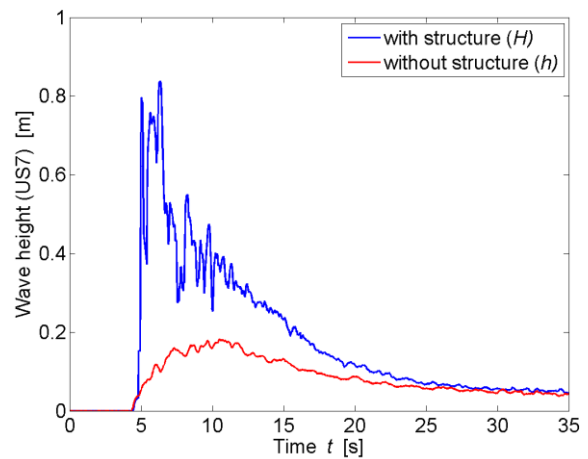
TEST PARAMETERS

Name	B31.34_0_WD3_2		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	42.60	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.575	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.838	[m]

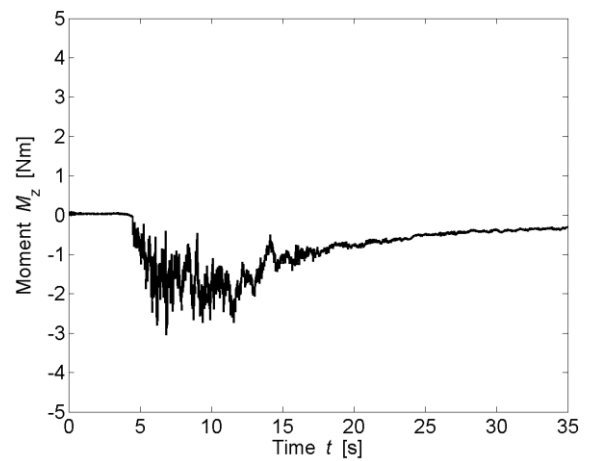
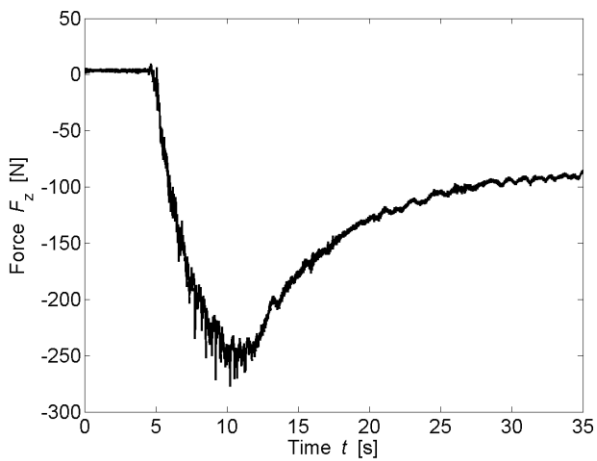
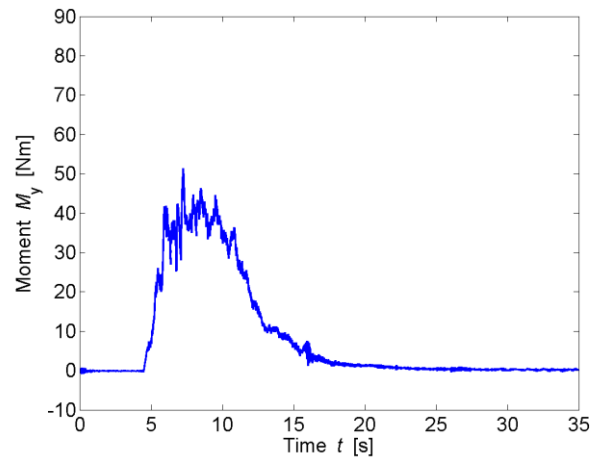
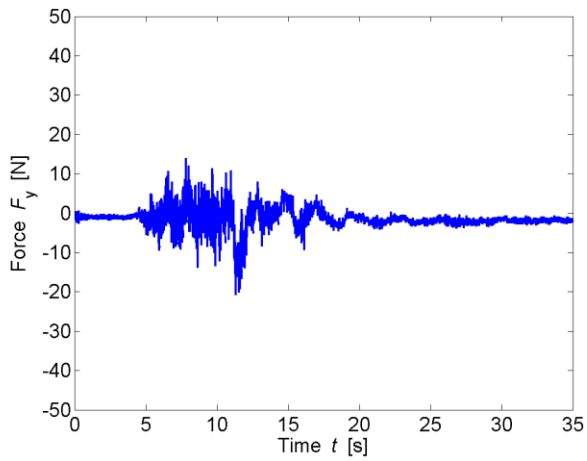
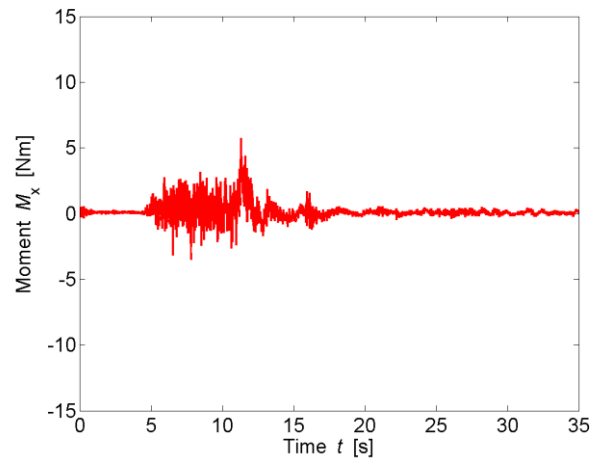
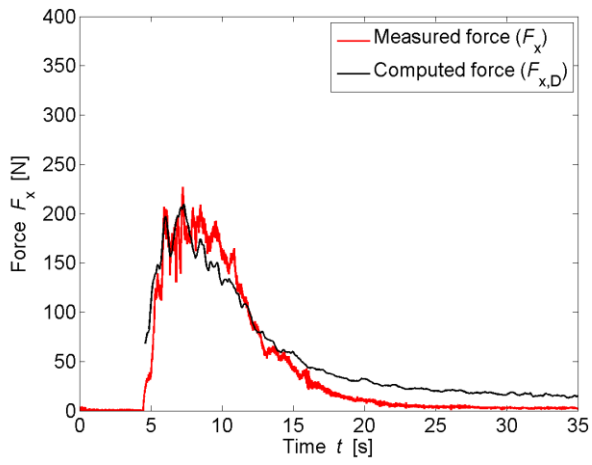


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.799	226.881	[N]
F_y	-20.793	14.006	[N]
F_z	-277.230	9.902	[N]
M_x	-3.487	5.737	[Nm]
M_y	-0.826	51.428	[Nm]
M_z	-3.049	0.094	[Nm]
Predicted Force	$F_{x,D,max}$	209.695	[N]
Initial time	t_0	4.530	[s]
Time to peak	τ_{max}	2.715	[s]
Total impulse	I_{tot}	1470.698	[Ns]
Peak Impulse	I_{peak}	344.501	[Ns]
Relative impulse	I^*	0.245	[-]
Wave height at $F_{x,max}$	h_M	0.852	[-]
Resistance coefficient	C_R	1.164	[-]

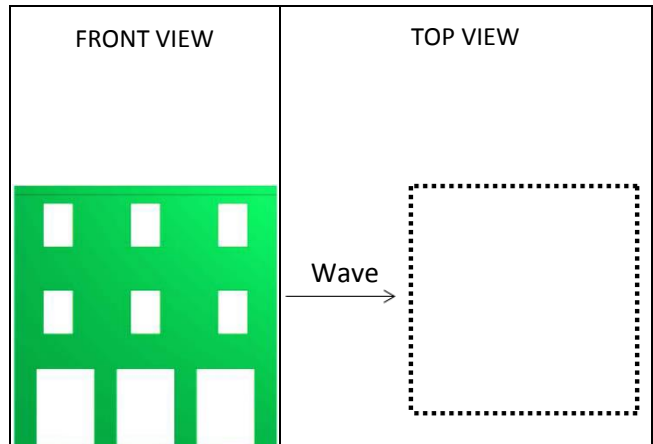


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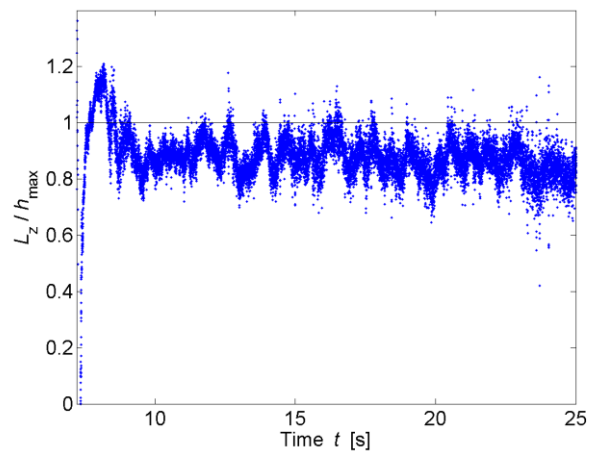
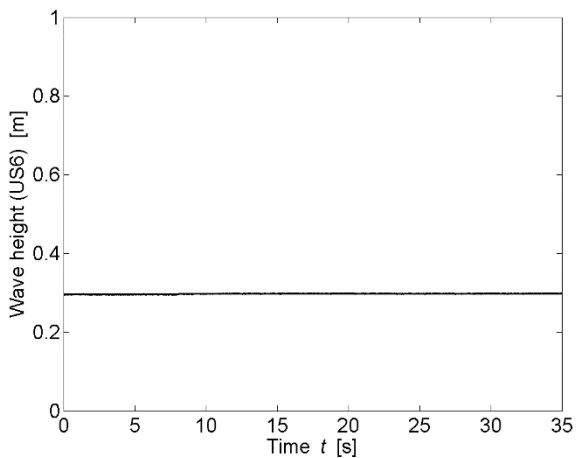
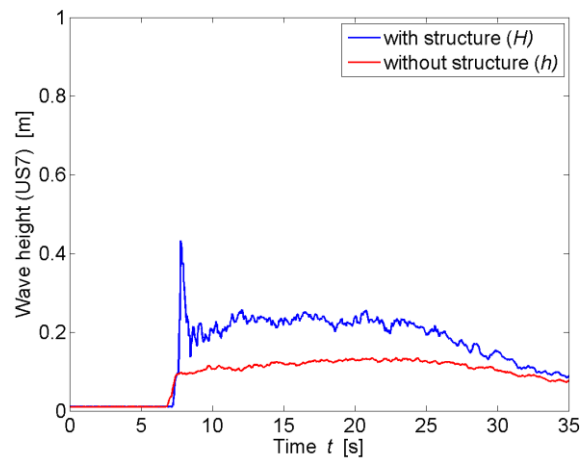
TEST PARAMETERS

Name	B31.34_0_WW1_1P_2		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	45.91	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.069	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.433	[m]

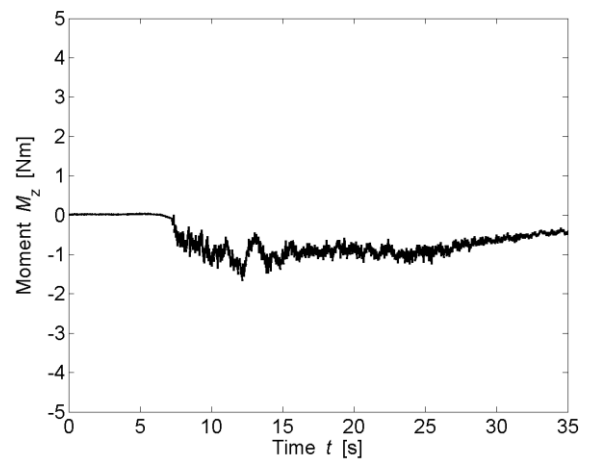
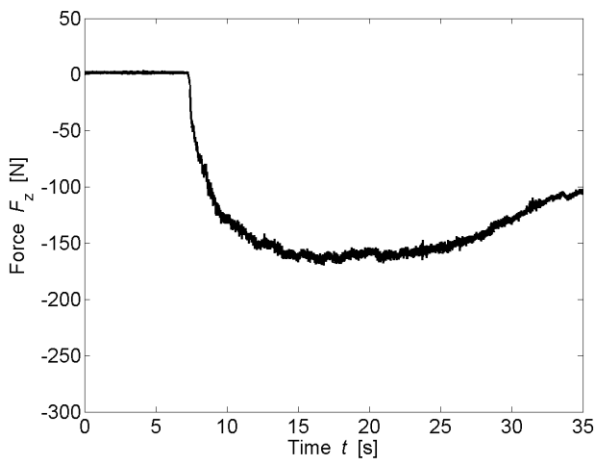
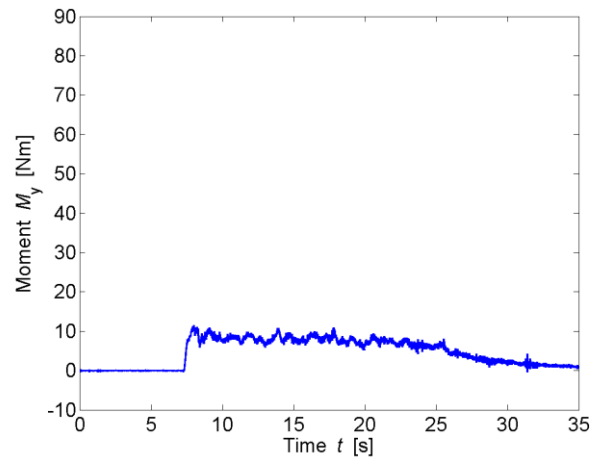
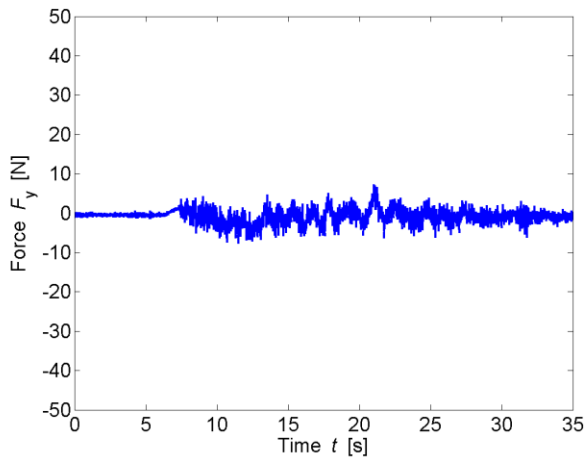
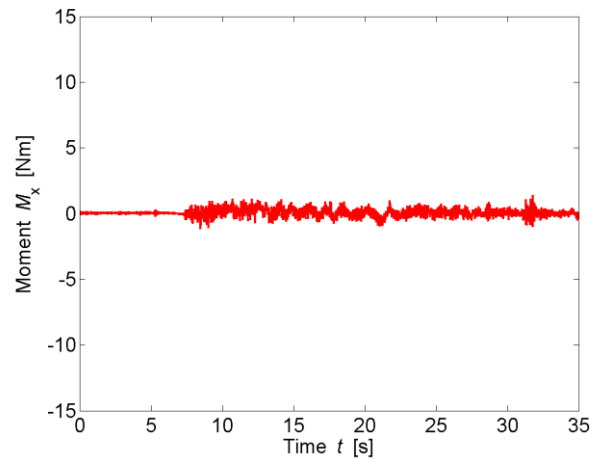
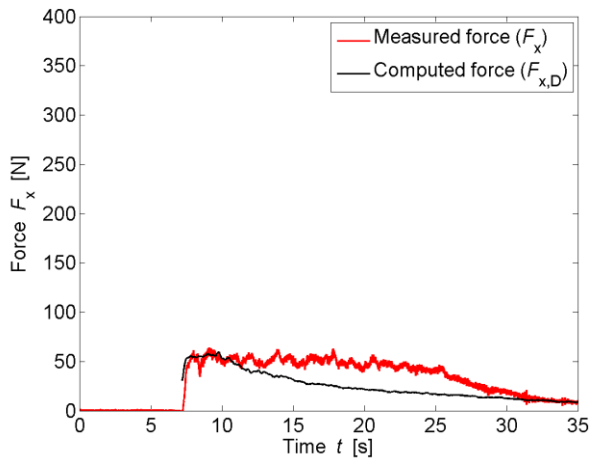


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.432	63.940	[N]
F_y	-7.729	7.223	[N]
F_z	-169.446	1.671	[N]
M_x	-1.176	1.417	[Nm]
M_y	-0.554	11.510	[Nm]
M_z	-1.674	0.061	[Nm]
Predicted Force	$F_{x,D,max}$	59.482	[N]
Initial time	t_0	7.259	[s]
Time to peak	τ_{max}	1.848	[s]
Total impulse	I_{tot}	953.063	[Ns]
Peak Impulse	I_{peak}	86.426	[Ns]
Relative impulse	I^*	0.088	[-]
Wave height at $F_{x,max}$	h_M	0.745	[-]
Resistance coefficient	C_R	1.128	[-]

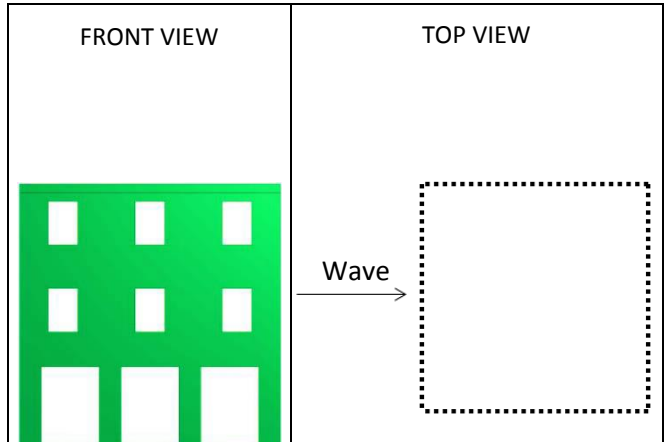


* All parameters are presented and defined at the beginning of the Appendix



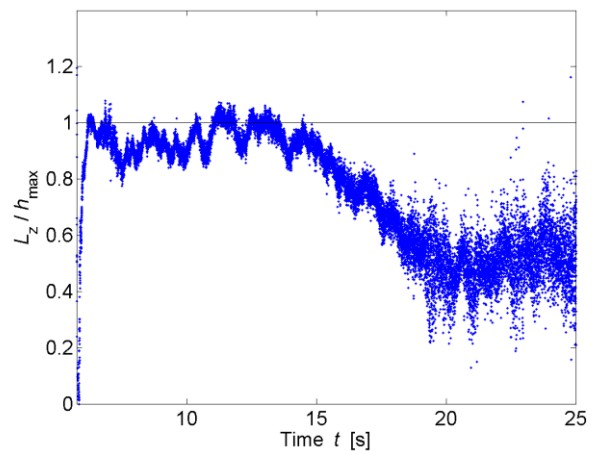
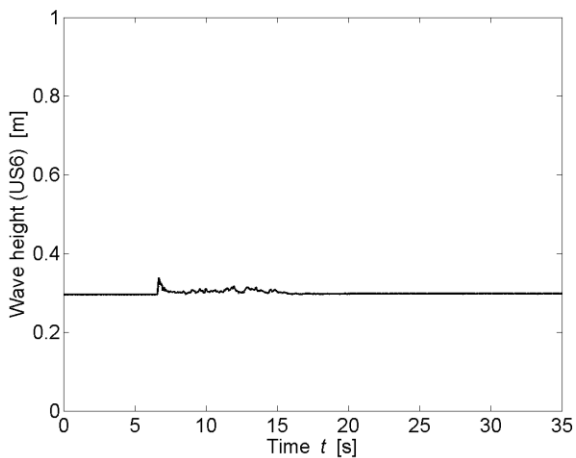
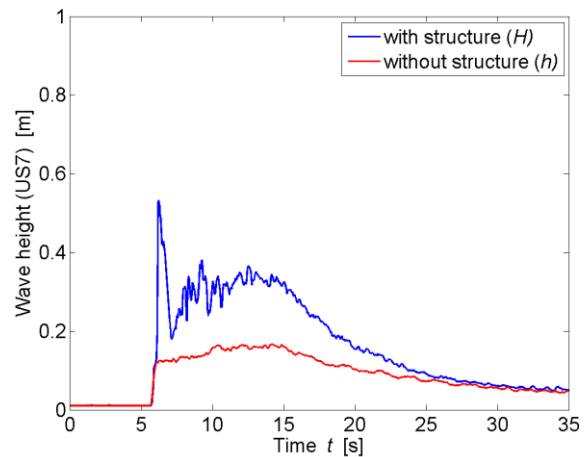
TEST PARAMETERS

Name	B31.34_0_WW1_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	43.67	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.686	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.532	[m]

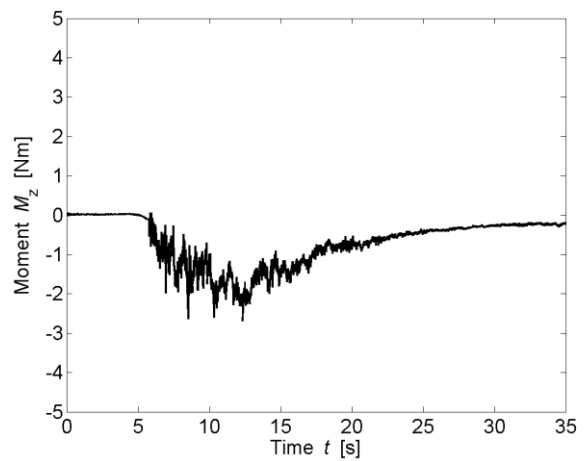
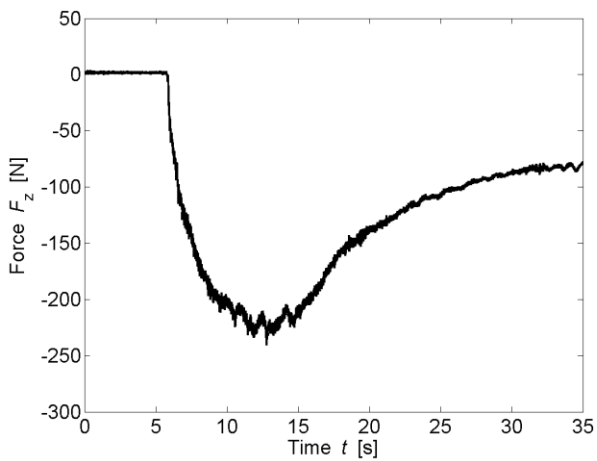
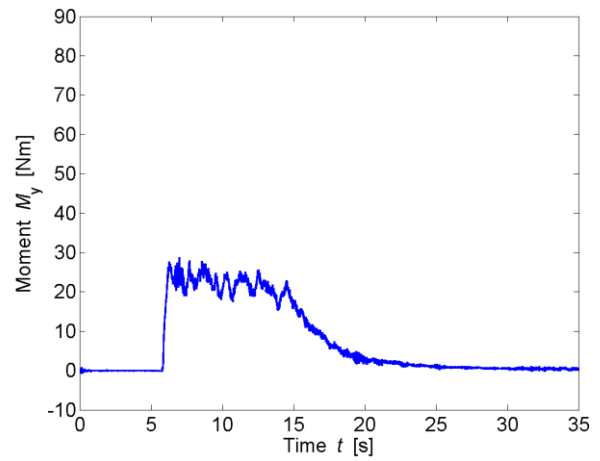
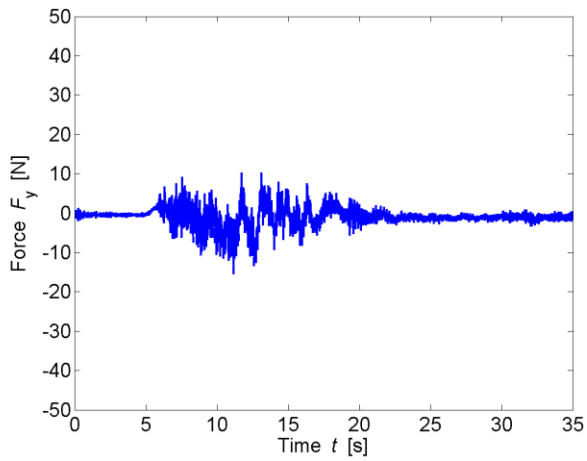
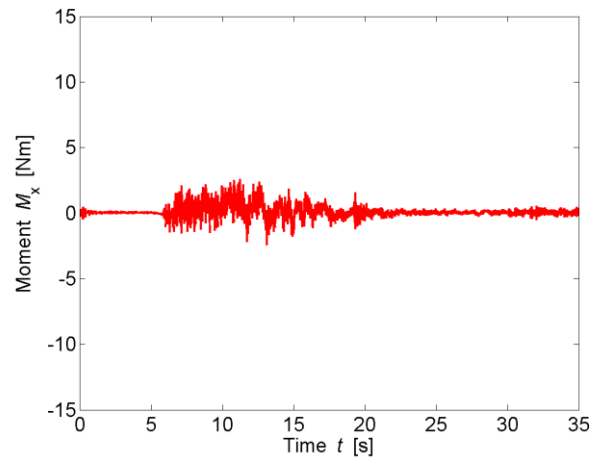
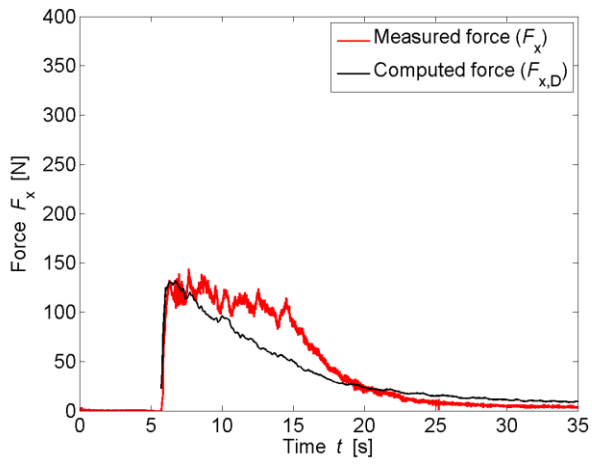


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.351	143.876	[N]
F_y	-15.487	10.331	[N]
F_z	-240.761	0.000	[N]
M_x	-2.442	2.587	[Nm]
M_y	-0.845	28.809	[Nm]
M_z	-2.688	0.068	[Nm]
Predicted Force	$F_{x,D,max}$	131.712	[N]
Initial time	t_0	5.795	[s]
Time to peak	τ_{max}	1.876	[s]
Total impulse	I_{tot}	1369.673	[Ns]
Peak Impulse	I_{peak}	206.785	[Ns]
Relative impulse	I^*	0.158	[-]
Wave height at $F_{x,max}$	h_M	0.777	[-]
Resistance coefficient	C_R	1.276	[-]

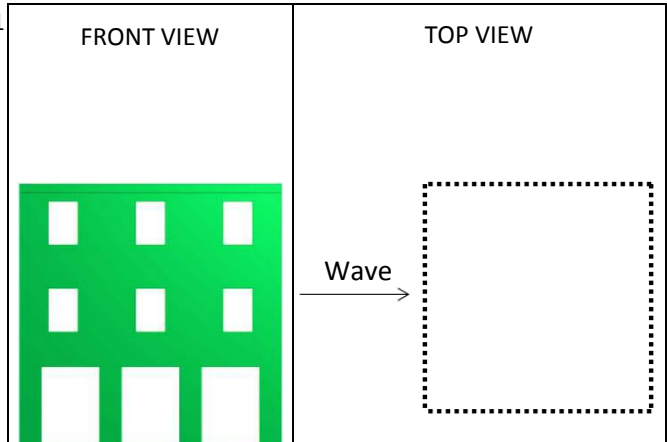


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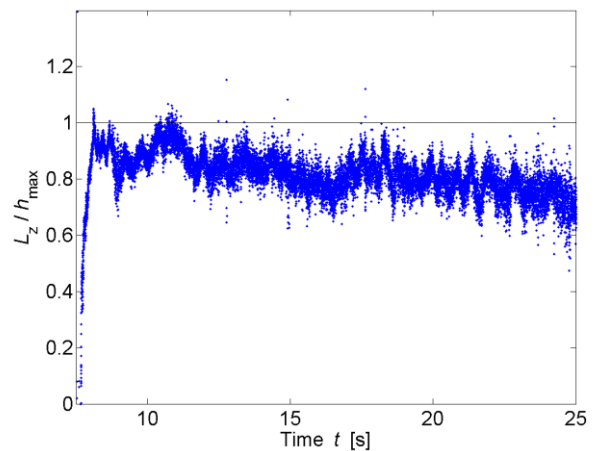
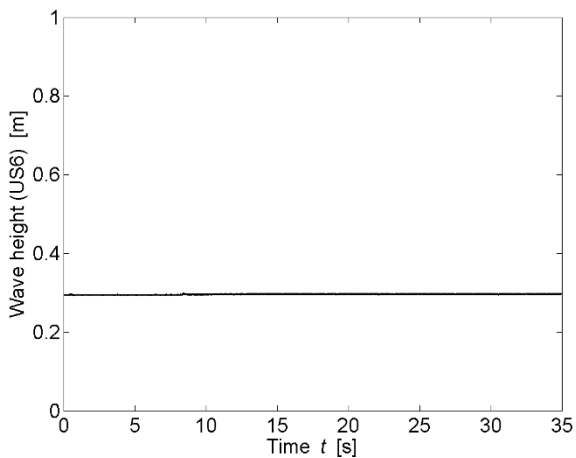
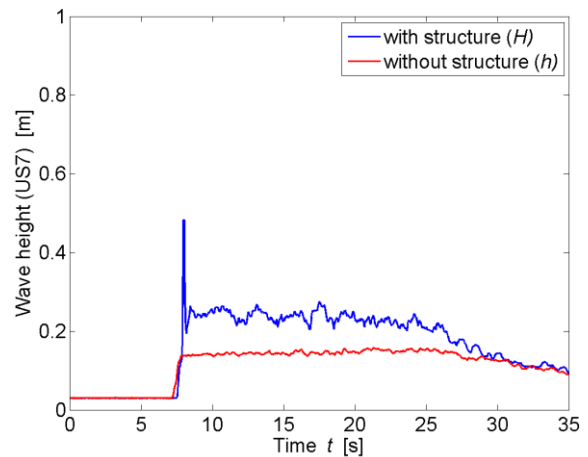
TEST PARAMETERS

Name	B31.34_0_WW3_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	44.28	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.946	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.483	[m]

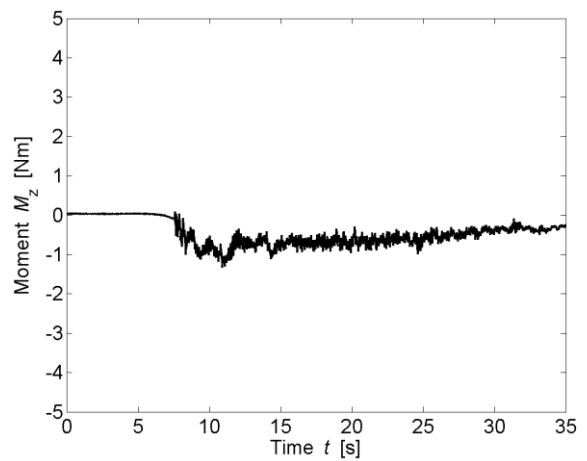
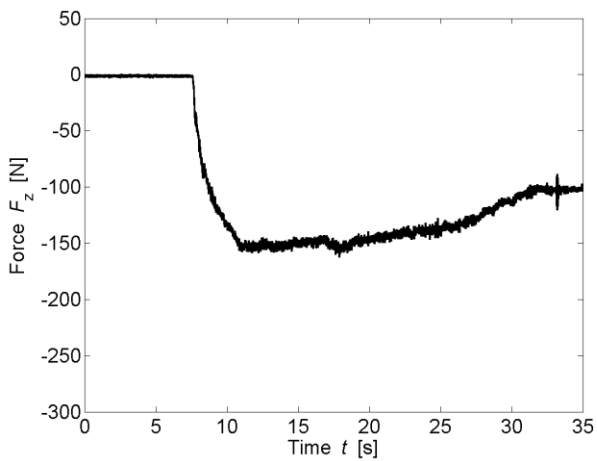
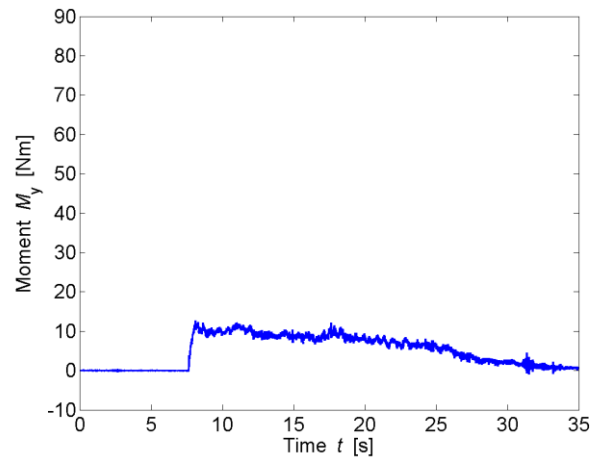
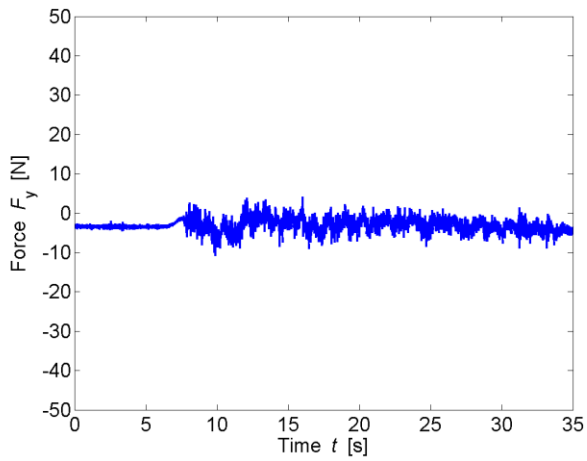
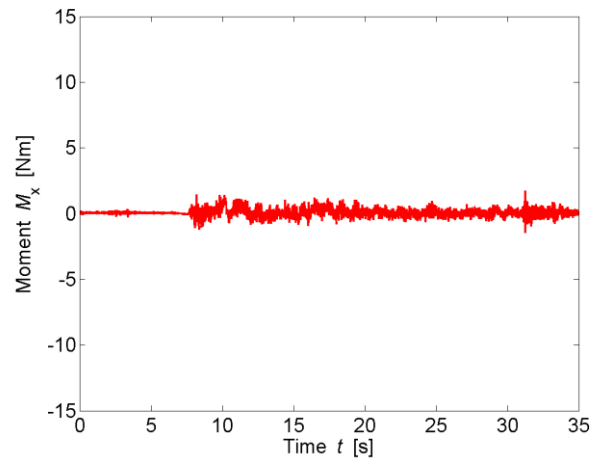
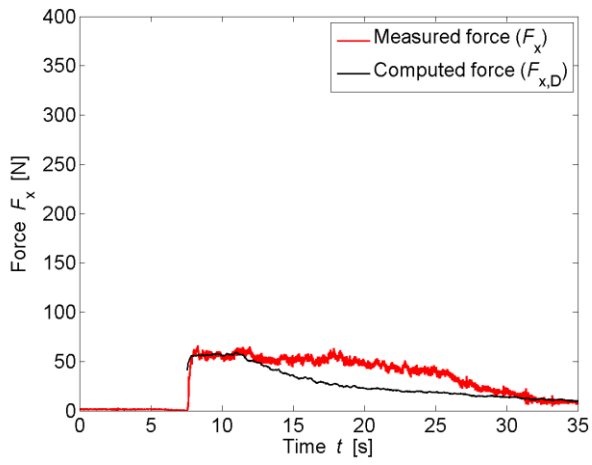


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-0.778	65.972	[N]
F_y	-10.886	4.213	[N]
F_z	-162.324	0.000	[N]
M_x	-1.468	1.753	[Nm]
M_y	-0.907	12.637	[Nm]
M_z	-1.332	0.084	[Nm]
Predicted Force	$F_{x,D,max}$	59.051	[N]
Initial time	t_0	7.562	[s]
Time to peak	τ_{max}	0.735	[s]
Total impulse	I_{tot}	968.915	[Ns]
Peak Impulse	I_{peak}	33.513	[Ns]
Relative impulse	I^*	0.034	[-]
Wave height at $F_{x,max}$	h_M	0.874	[-]
Resistance coefficient	C_R	1.239	[-]

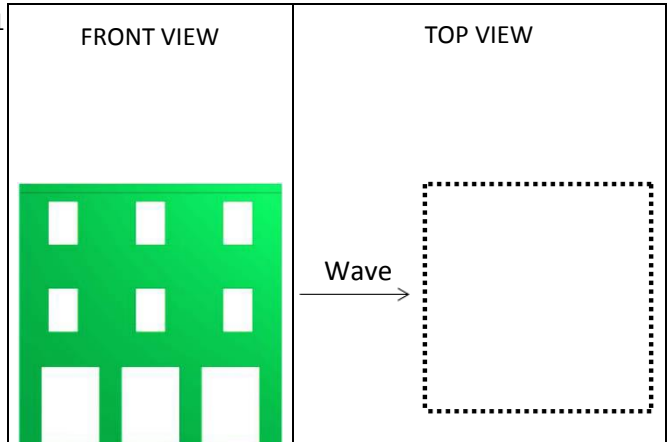


* All parameters are presented and defined at the beginning of the Appendix



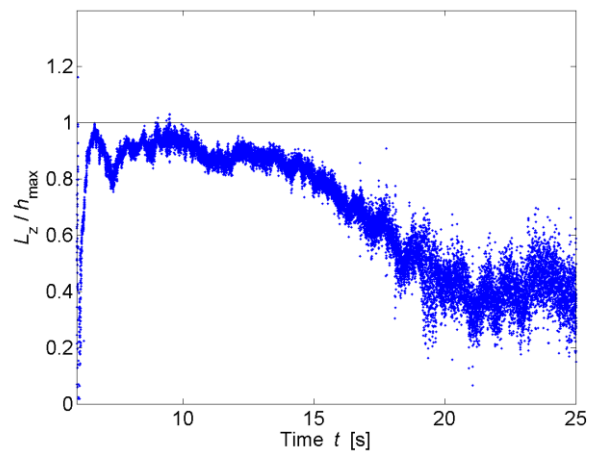
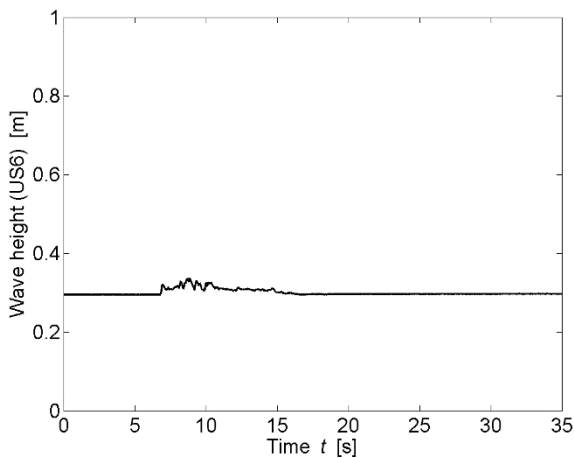
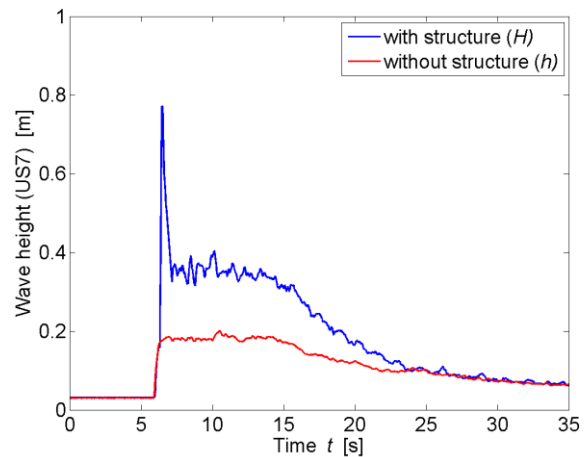
TEST PARAMETERS

Name	B31.34_0_WW3_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	39.07	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.488	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.772	[m]

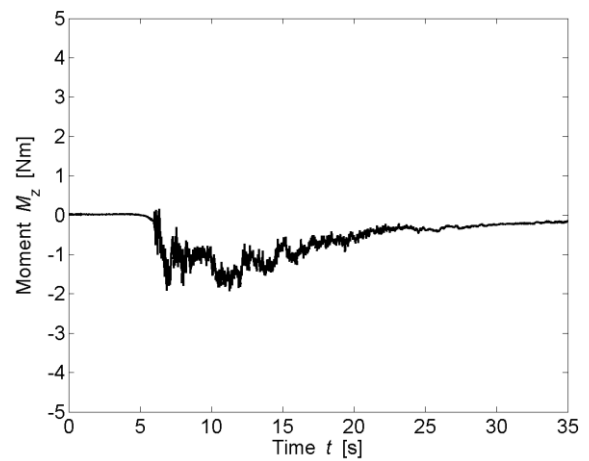
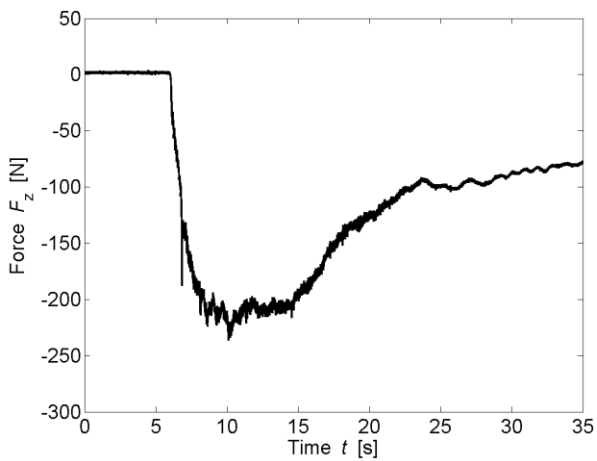
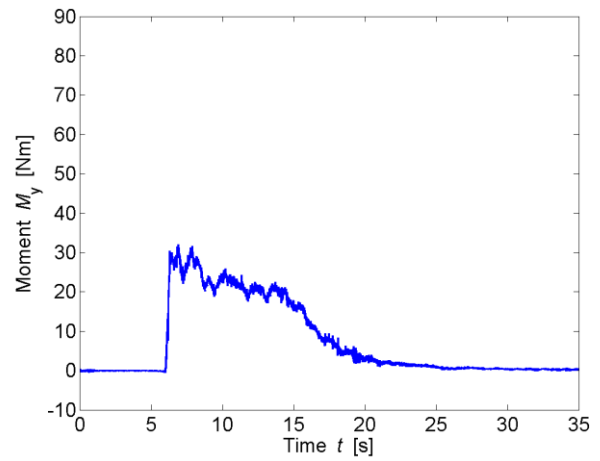
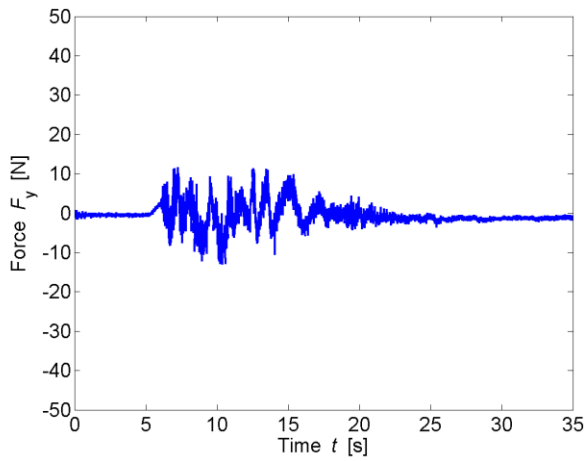
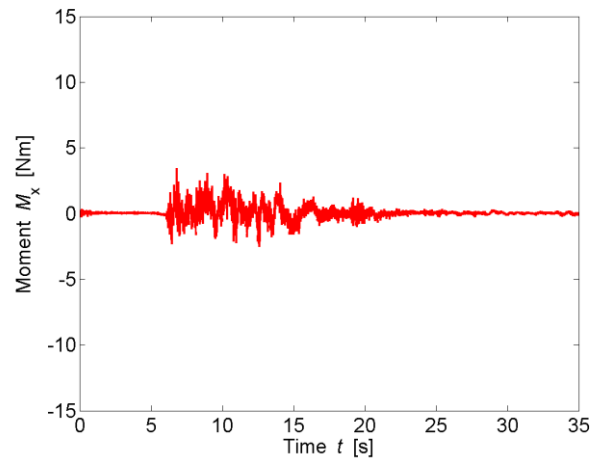
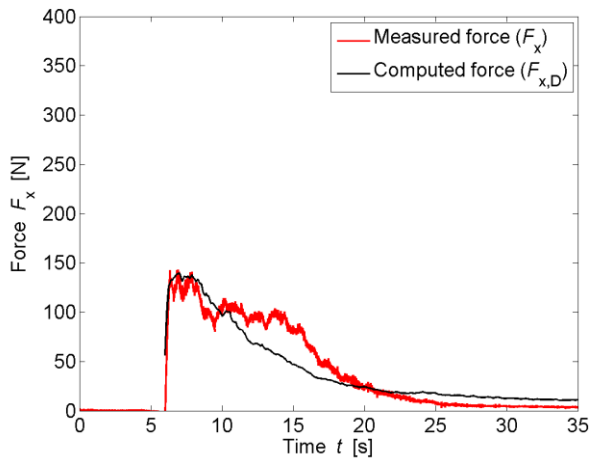


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.302	142.836	[N]
F_y	-12.991	11.677	[N]
F_z	-236.263	1.483	[N]
M_x	-2.505	3.473	[Nm]
M_y	-0.659	32.051	[Nm]
M_z	-1.921	0.154	[Nm]
Predicted Force	$F_{x,D,max}$	152.425	[N]
Initial time	t_0	5.997	[s]
Time to peak	τ_{max}	0.935	[s]
Total impulse	I_{tot}	1275.680	[Ns]
Peak Impulse	I_{peak}	98.837	[Ns]
Relative impulse	I^*	0.081	[-]
Wave height at $F_{x,max}$	h_M	0.924	[-]
Resistance coefficient	C_R	1.125	[-]

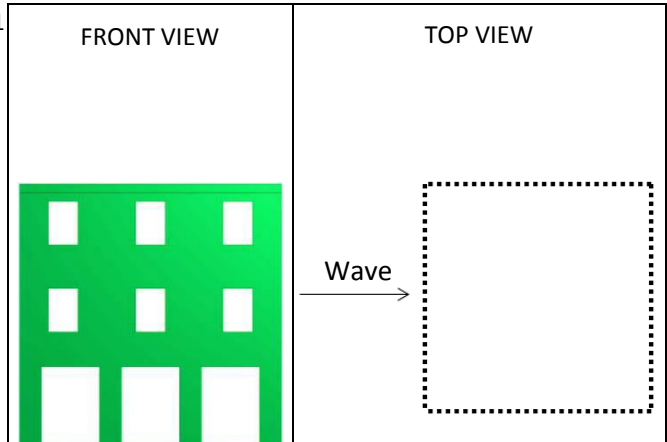


* All parameters are presented and defined at the beginning of the Appendix



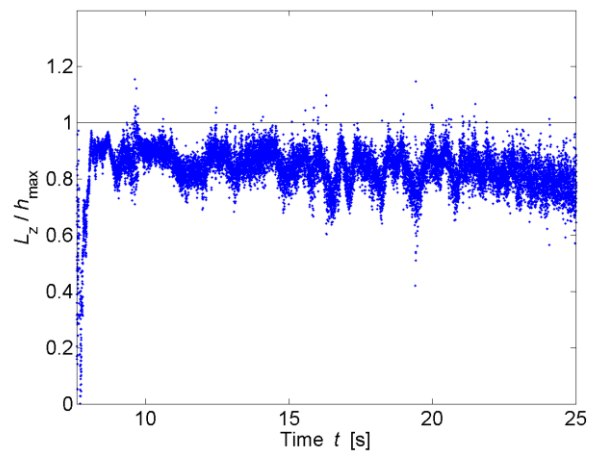
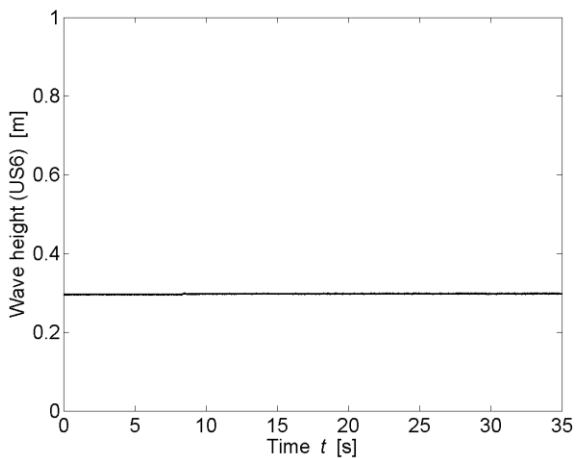
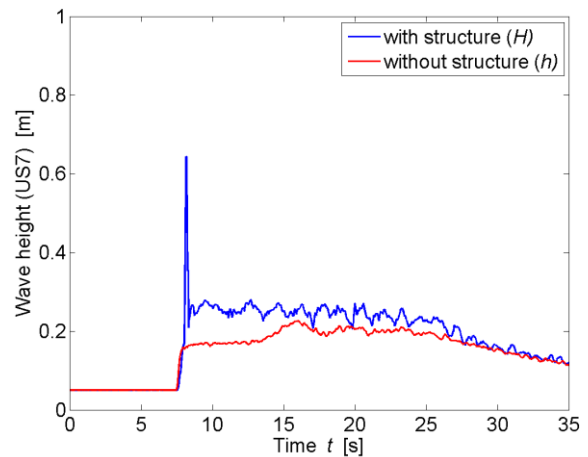
TEST PARAMETERS

Name	B31.34_0_WW5_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	43.06	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.926	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.644	[m]

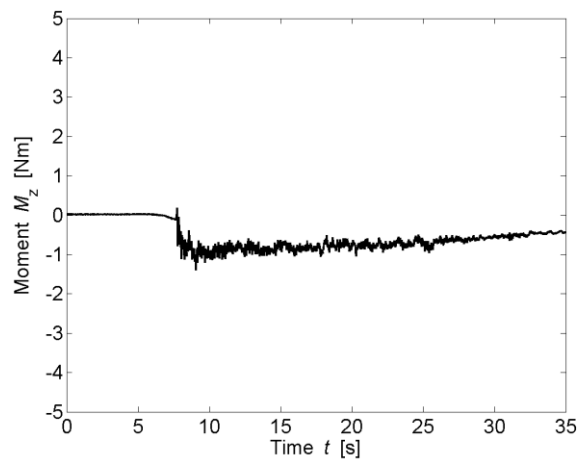
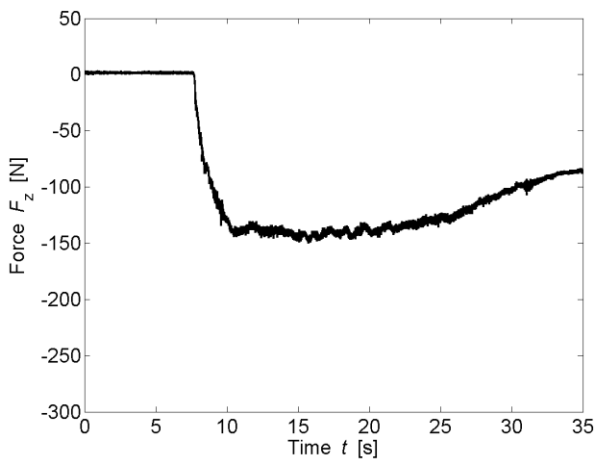
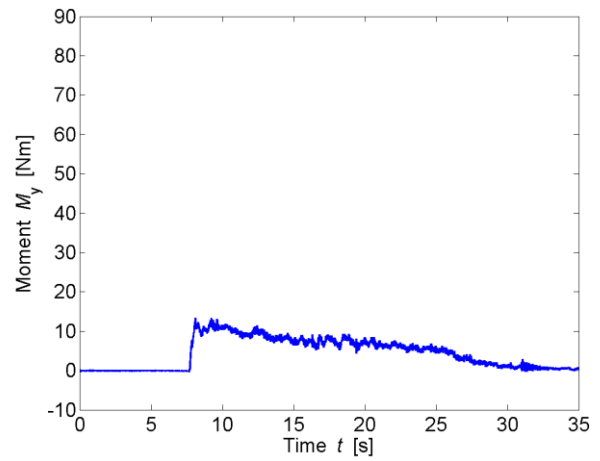
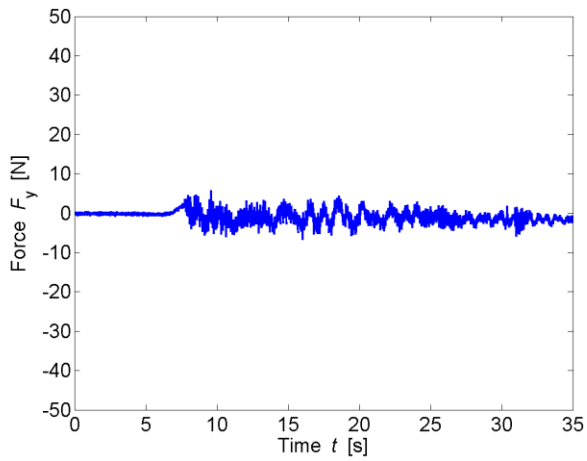
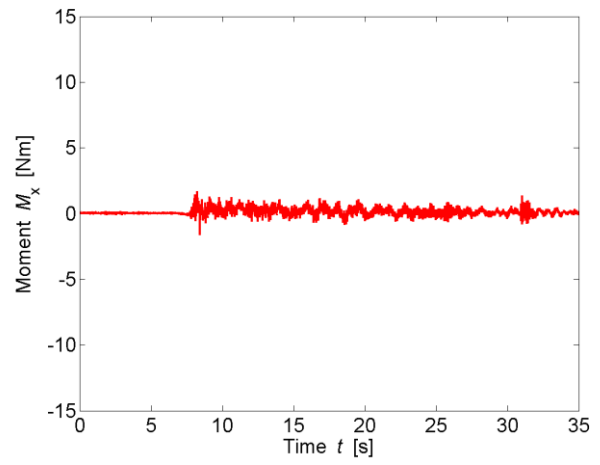
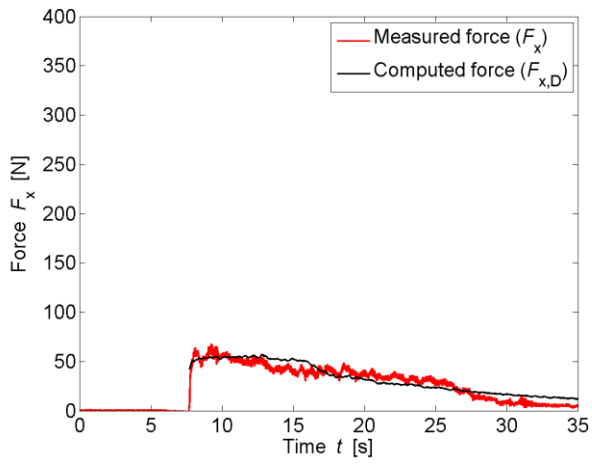


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.012	68.029	[N]
F_y	-6.726	5.853	[N]
F_z	-150.048	2.233	[N]
M_x	-1.621	1.680	[Nm]
M_y	-0.447	13.349	[Nm]
M_z	-1.398	0.189	[Nm]
Predicted Force	$F_{x,D,max}$	56.803	[N]
Initial time	t_0	7.640	[s]
Time to peak	τ_{max}	1.593	[s]
Total impulse	I_{tot}	793.929	[Ns]
Peak Impulse	I_{peak}	79.205	[Ns]
Relative impulse	I^*	0.098	[-]
Wave height at $F_{x,max}$	h_M	0.741	[-]
Resistance coefficient	C_R	1.217	[-]

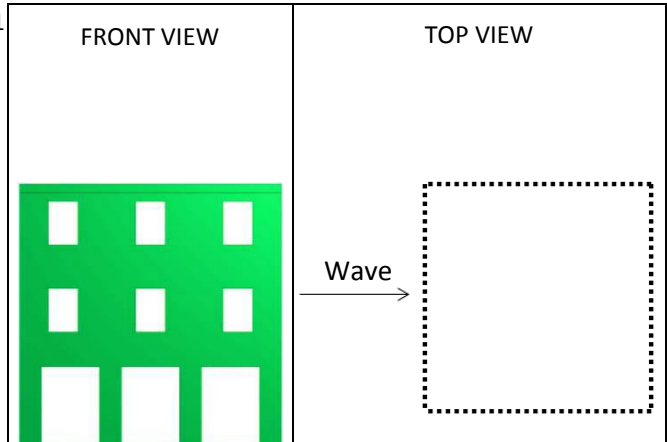


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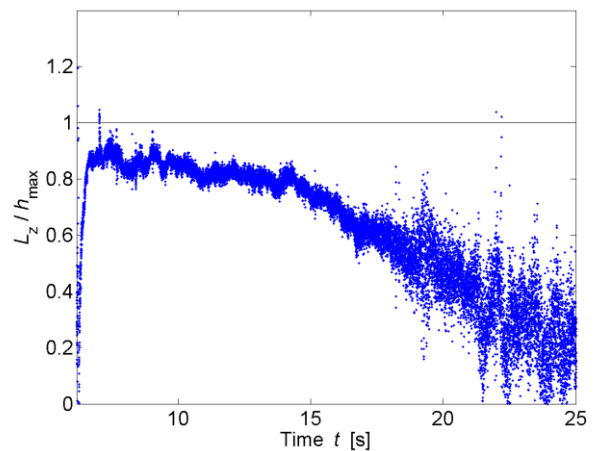
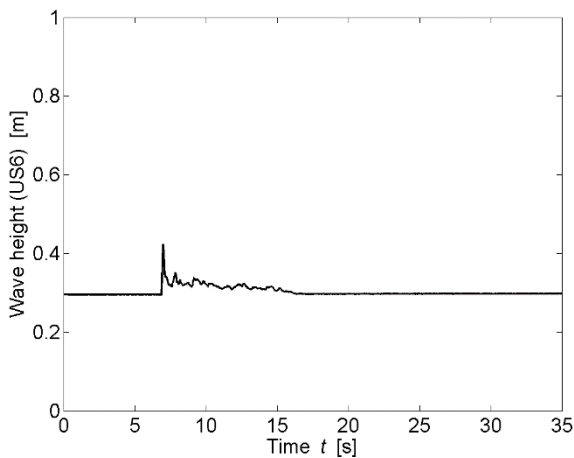
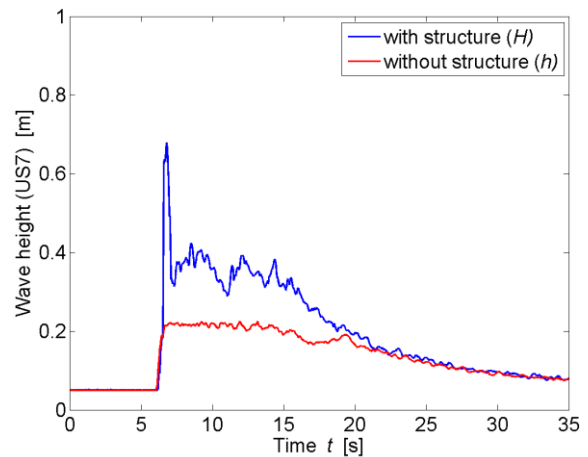
TEST PARAMETERS

Name	B31.34_0_WW5_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	34.61	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.434	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.680	[m]

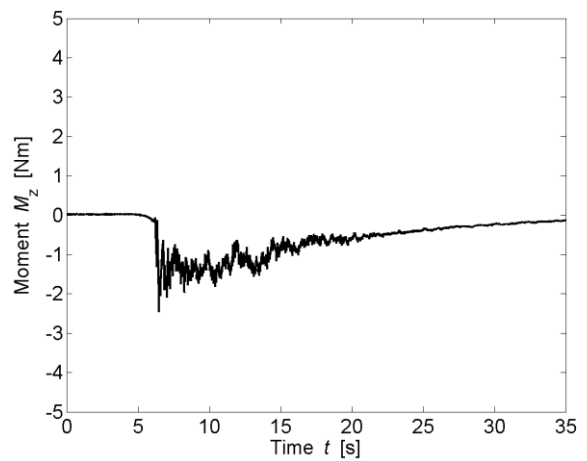
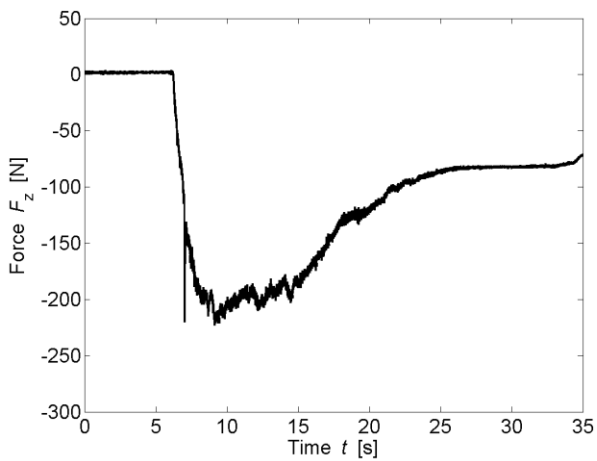
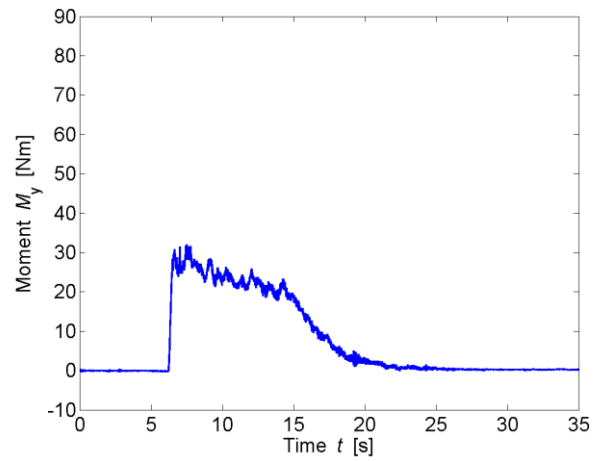
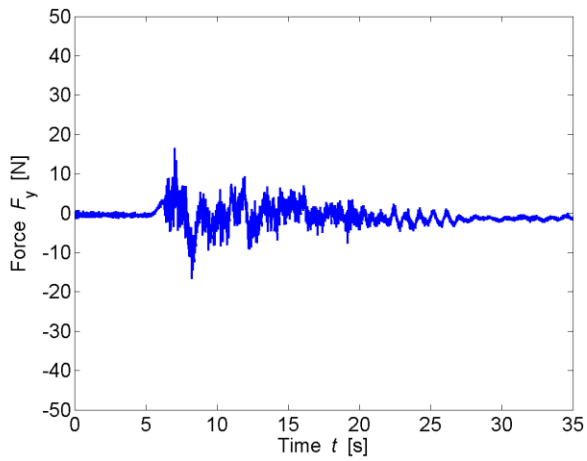
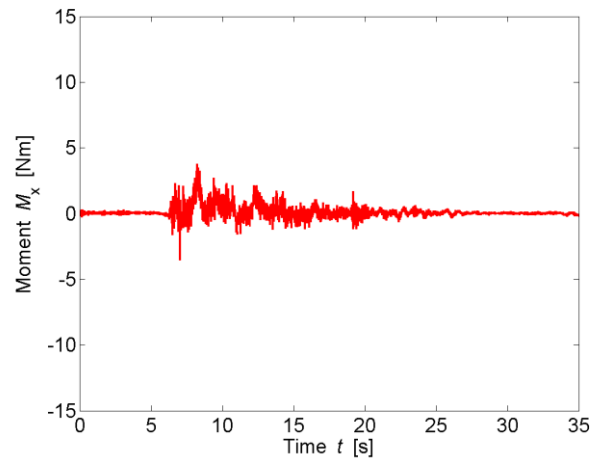
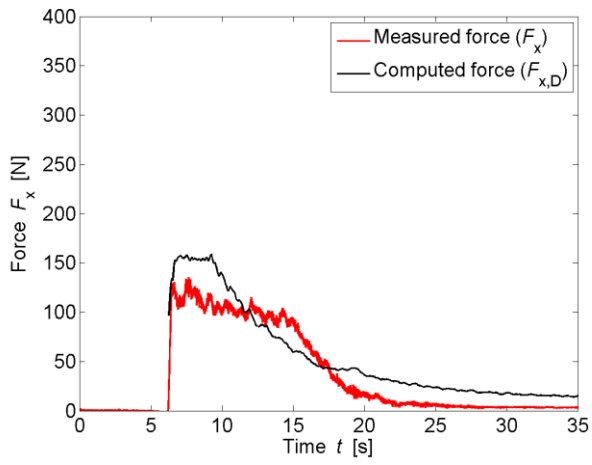


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.714	135.650	[N]
F_y	-16.661	16.572	[N]
F_z	-222.862	1.577	[N]
M_x	-3.550	3.768	[Nm]
M_y	-0.460	32.017	[Nm]
M_z	-2.463	0.056	[Nm]
Predicted Force	$F_{x,D,max}$	158.807	[N]
Initial time	t_0	6.214	[s]
Time to peak	τ_{max}	1.461	[s]
Total impulse	I_{tot}	1200.396	[Ns]
Peak Impulse	I_{peak}	156.245	[Ns]
Relative impulse	I^*	0.134	[-]
Wave height at $F_{x,max}$	h_M	0.961	[-]
Resistance coefficient	C_R	1.122	[-]

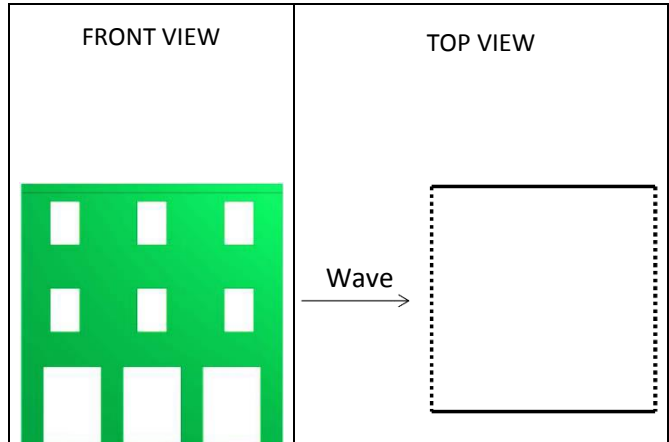


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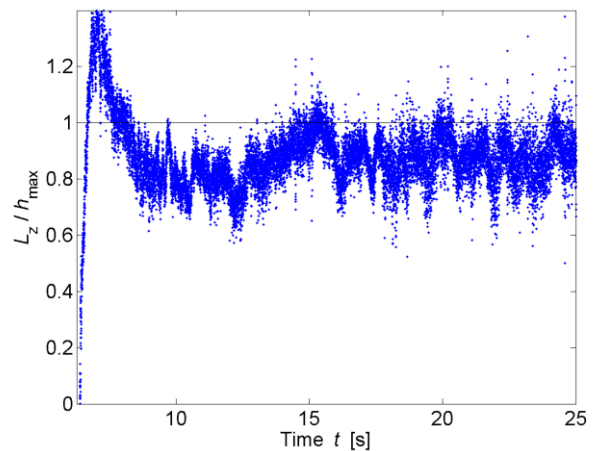
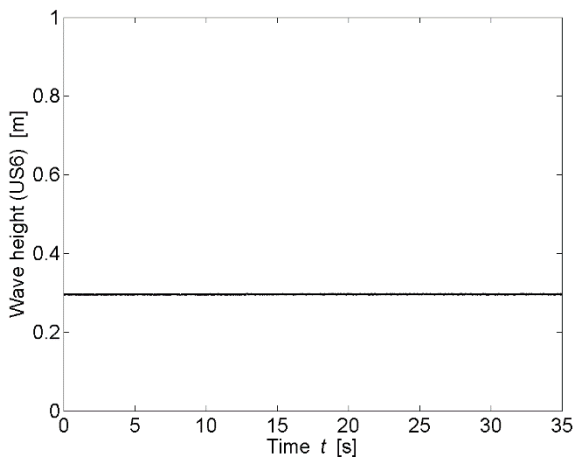
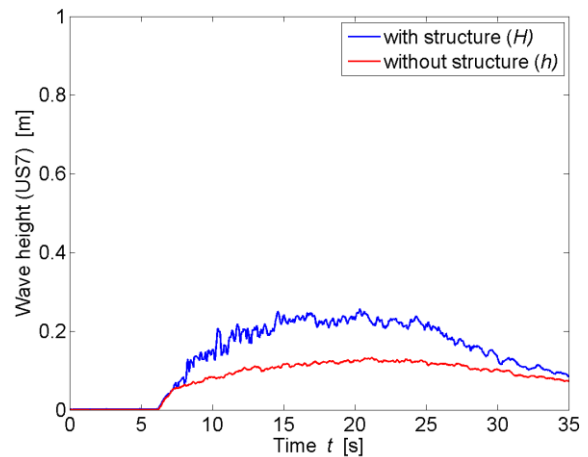
TEST PARAMETERS

Name	B31.34_F_WD1_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	46.04	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.357	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.253	[m]

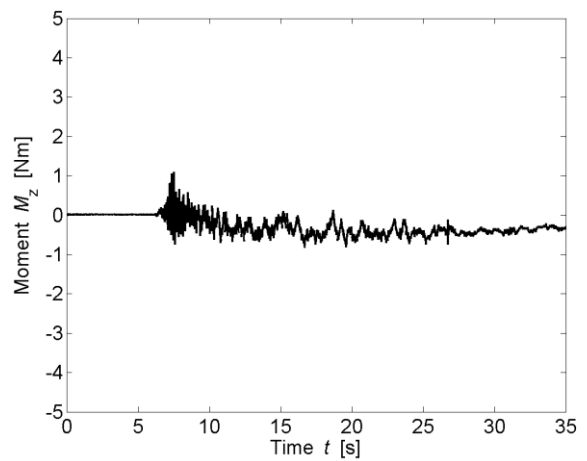
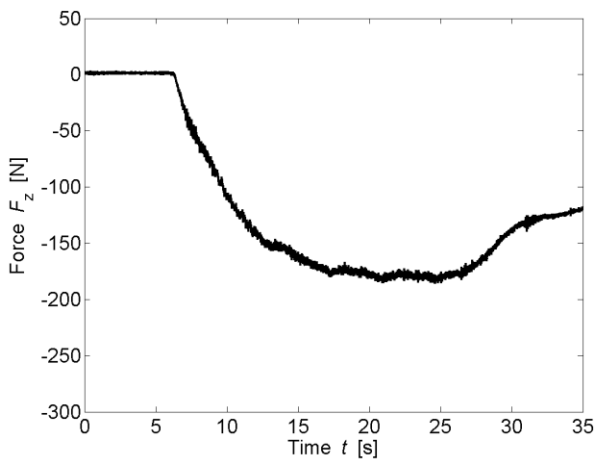
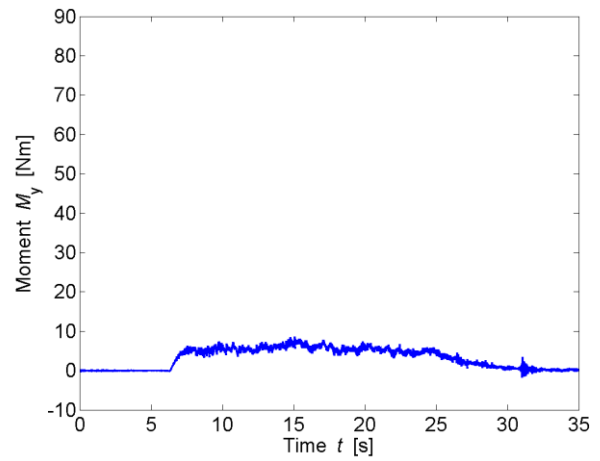
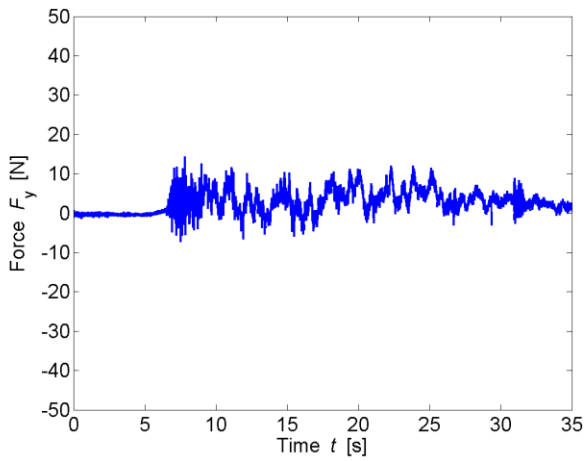
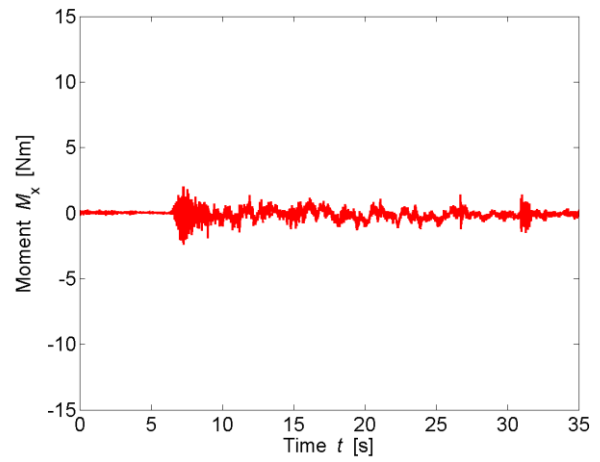
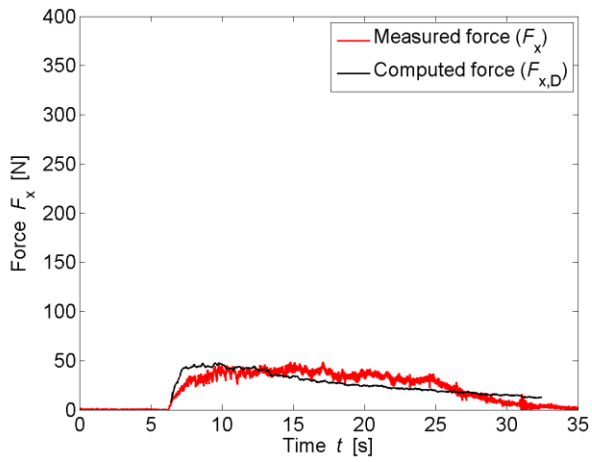


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.770	46.230	[N]
F_y	-9.467	16.205	[N]
F_z	-192.874	0.000	[N]
M_x	-4.042	3.353	[Nm]
M_y	-1.886	7.816	[Nm]
M_z	-0.971	0.679	[Nm]
Predicted Force	$F_{x,D,max}$	47.653	[N]
Initial time	t_0	6.426	[s]
Time to peak	τ_{max}	11.541	[s]
Total impulse	I_{tot}	682.411	[Ns]
Peak Impulse	I_{peak}	378.363	[Ns]
Relative impulse	I^*	0.571	[-]
Wave height at $F_{x,max}$	h_M	0.910	[-]
Resistance coefficient	C_R	1.636	[-]

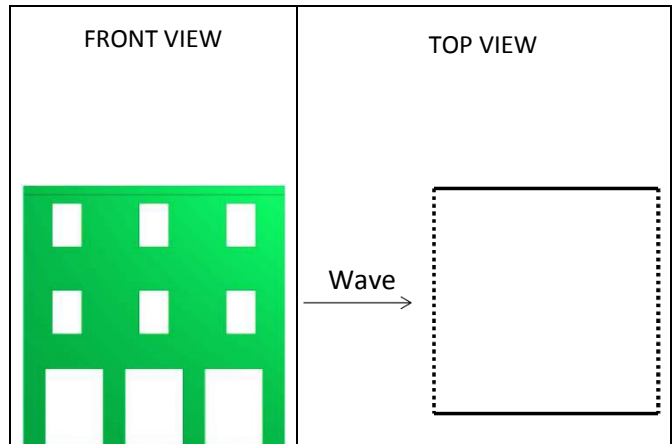


* All parameters are presented and defined at the beginning of the Appendix



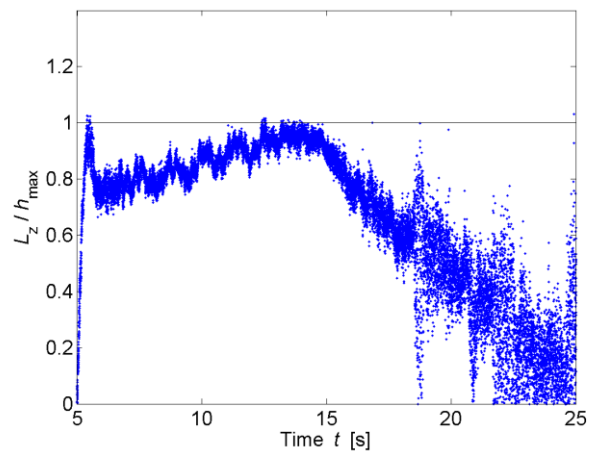
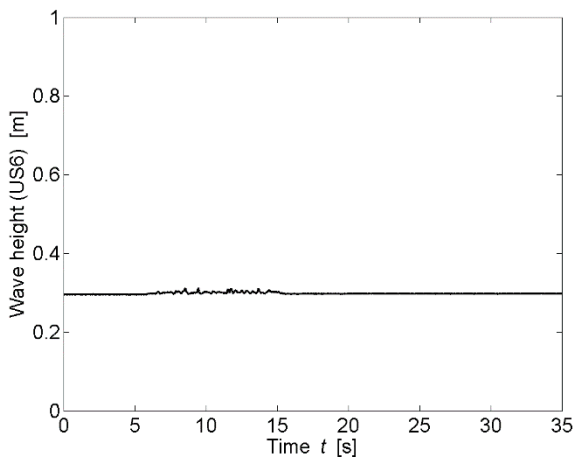
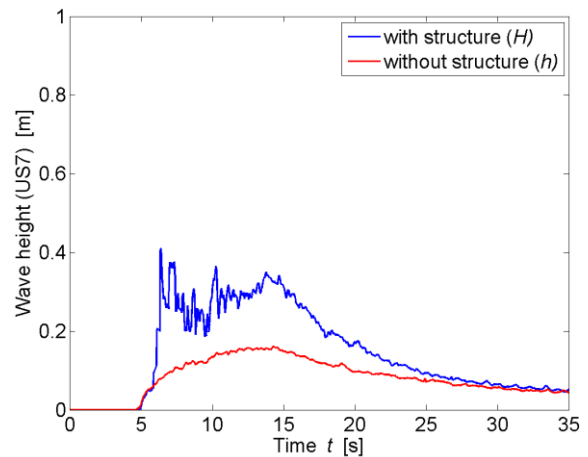
TEST PARAMETERS

Name	B31.34_F_WD2_6		
Repetitions	6		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	44.08	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.093	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.410	[m]

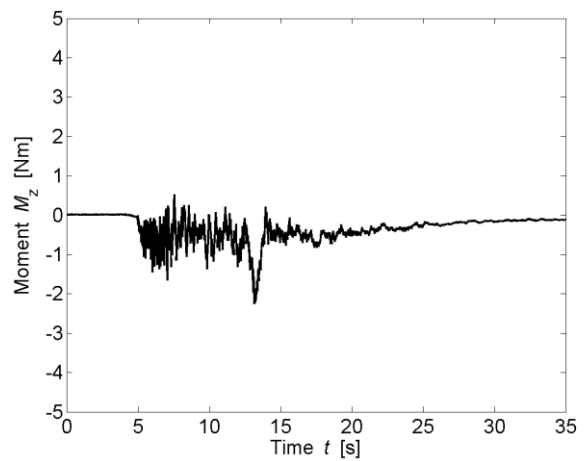
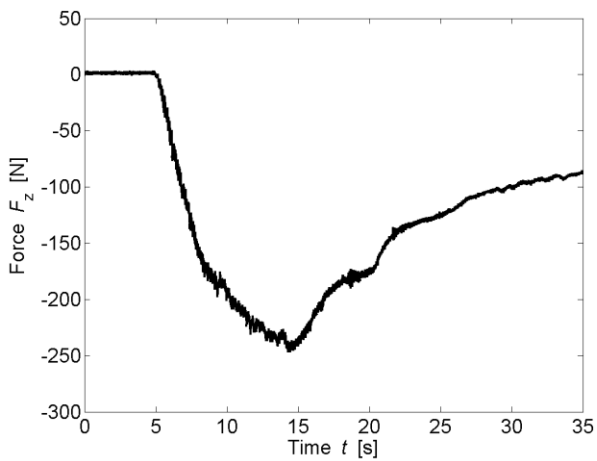
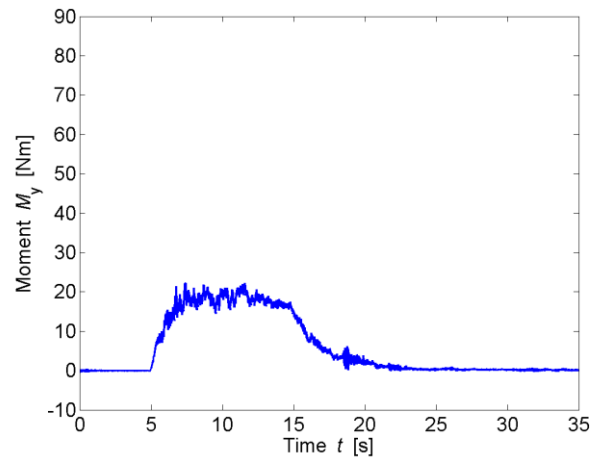
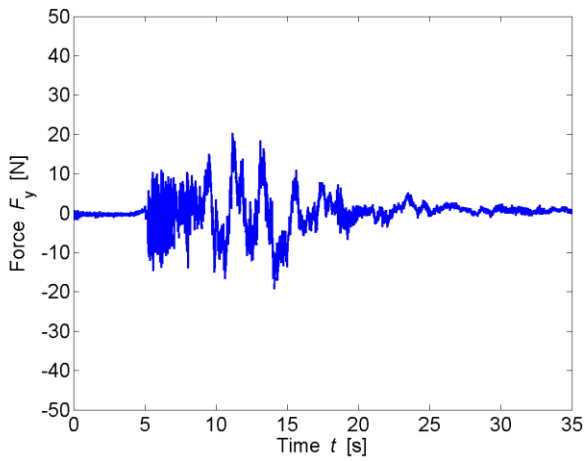
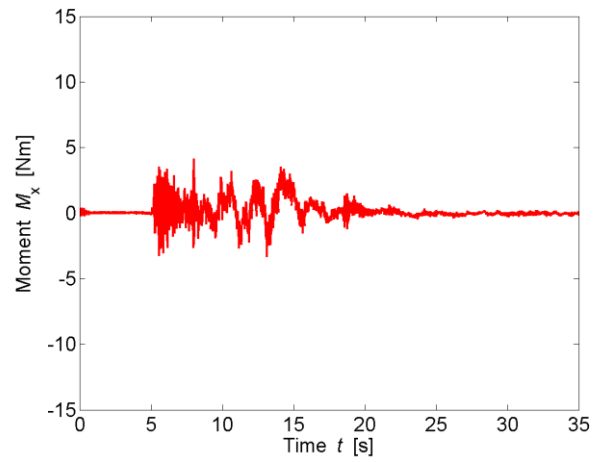
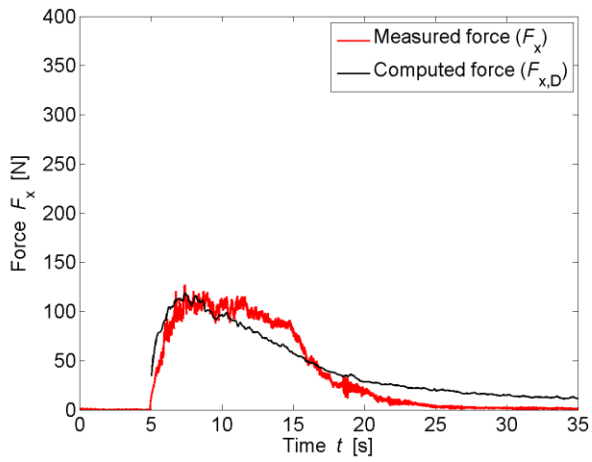


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.931	127.056	[N]
F_y	-19.266	20.311	[N]
F_z	-246.961	0.718	[N]
M_x	-3.344	4.166	[Nm]
M_y	-0.955	22.288	[Nm]
M_z	-2.259	0.530	[Nm]
Predicted Force	$F_{x,D,max}$	118.765	[N]
Initial time	t_0	5.026	[s]
Time to peak	τ_{max}	2.381	[s]
Total impulse	I_{tot}	1178.347	[Ns]
Peak Impulse	I_{peak}	171.744	[Ns]
Relative impulse	I^*	0.150	[-]
Wave height at $F_{x,max}$	h_M	0.669	[-]
Resistance coefficient	C_R	1.131	[-]

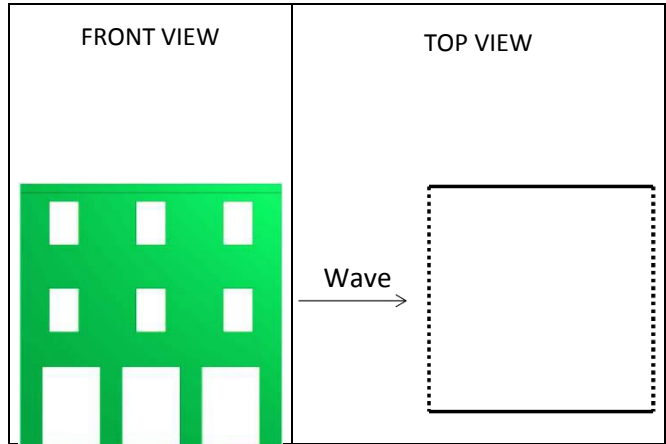


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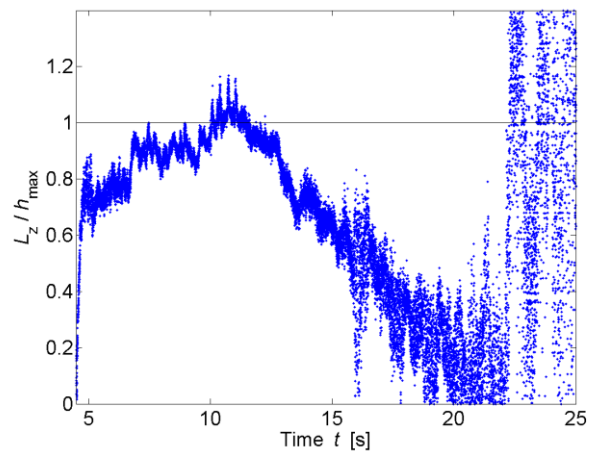
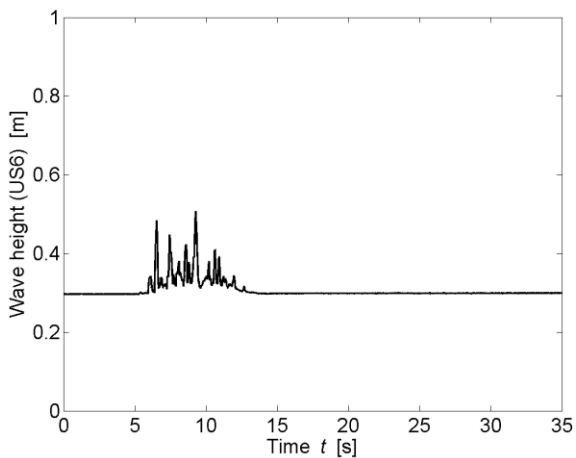
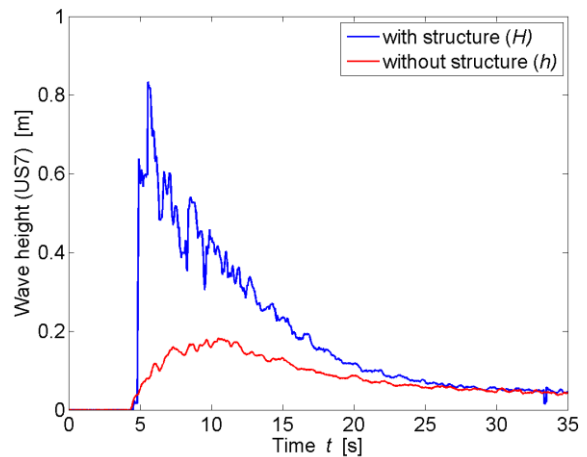
TEST PARAMETERS

Name	B31.34_F_WD3_1		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	42.60	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.527	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.833	[m]

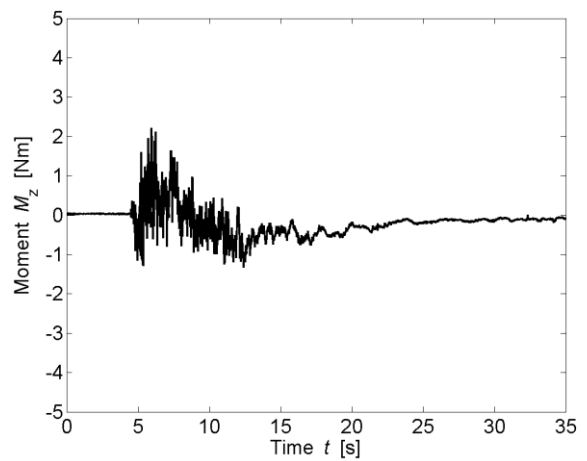
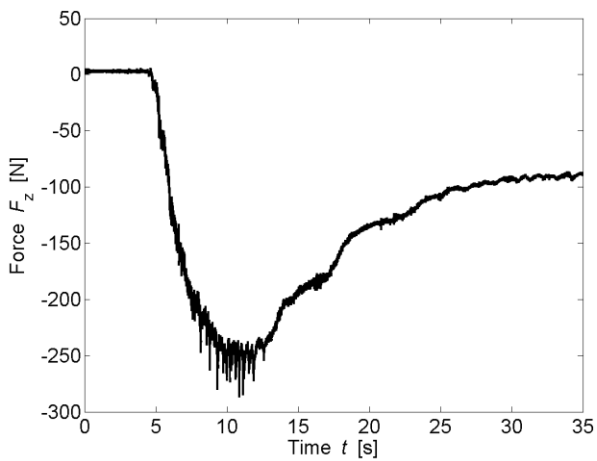
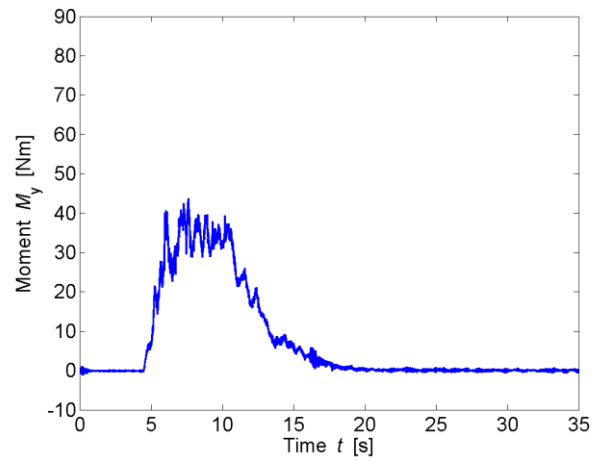
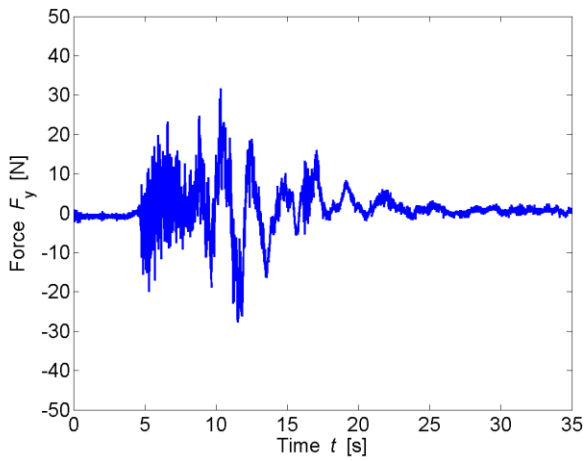
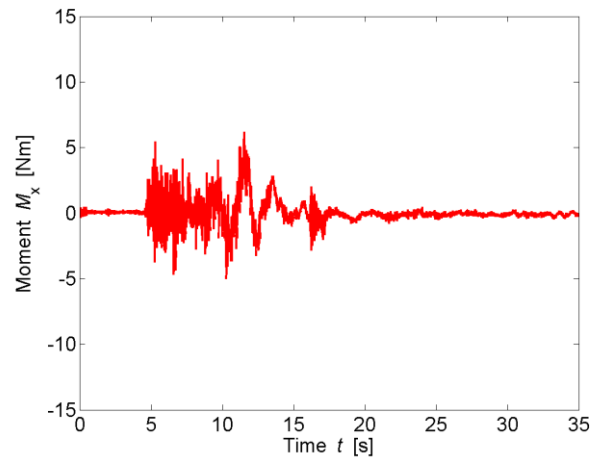
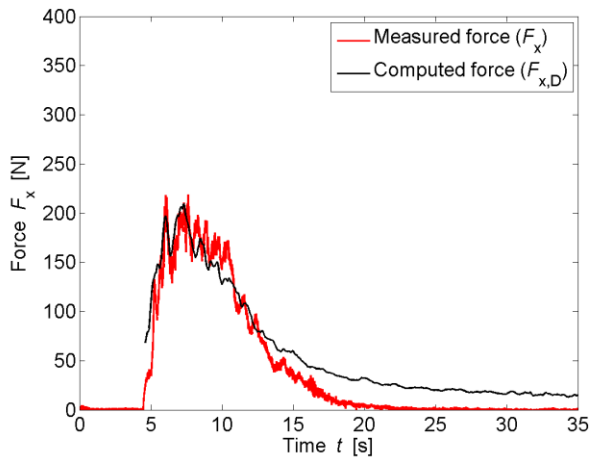


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.444	218.752	[N]
F_y	-27.694	31.626	[N]
F_z	-286.976	5.966	[N]
M_x	-5.025	6.206	[Nm]
M_y	-1.218	43.757	[Nm]
M_z	-1.327	2.213	[Nm]
Predicted Force	$F_{x,D,max}$	209.695	[N]
Initial time	t_0	4.550	[s]
Time to peak	τ_{max}	2.303	[s]
Total impulse	I_{tot}	1314.108	[Ns]
Peak Impulse	I_{peak}	258.169	[Ns]
Relative impulse	I^*	0.199	[-]
Wave height at $F_{x,max}$	h_M	0.755	[-]
Resistance coefficient	C_R	1.329	[-]



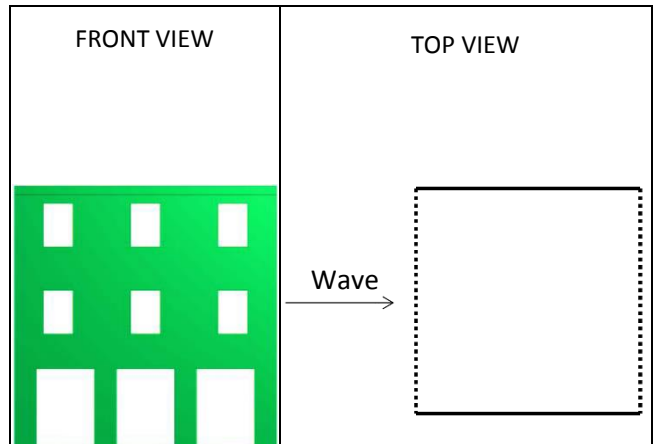
* All parameters are presented and defined at the beginning of the Appendix



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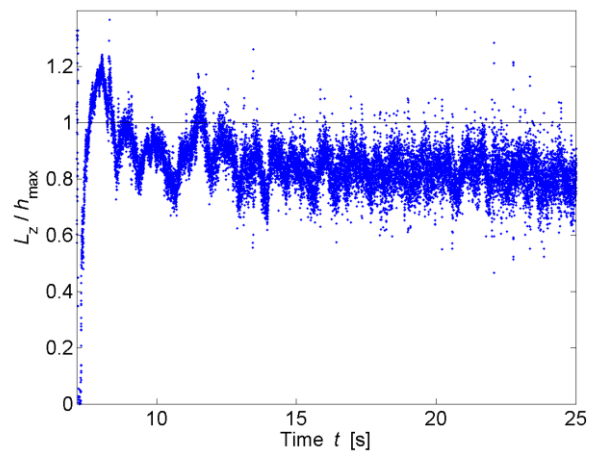
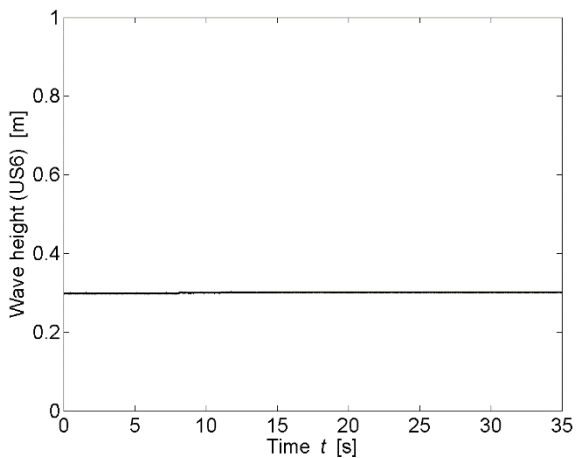
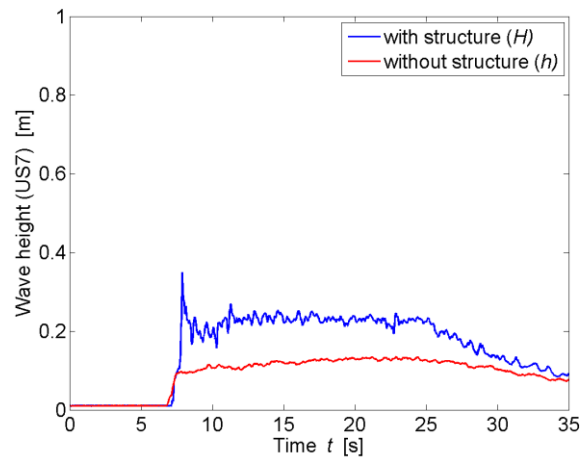
TEST PARAMETERS

Name	B31.34_F_WW1_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	45.91	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.082	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.350	[m]

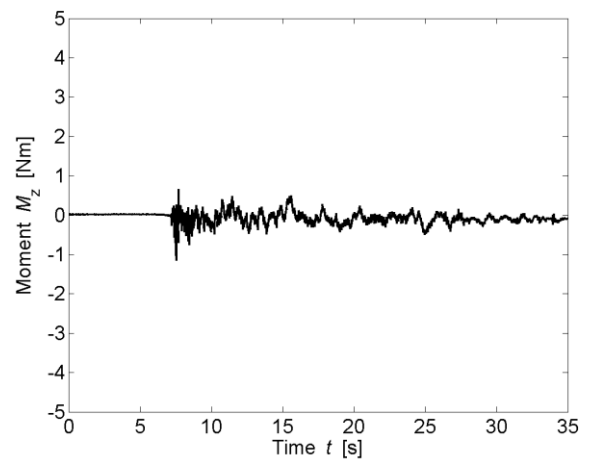
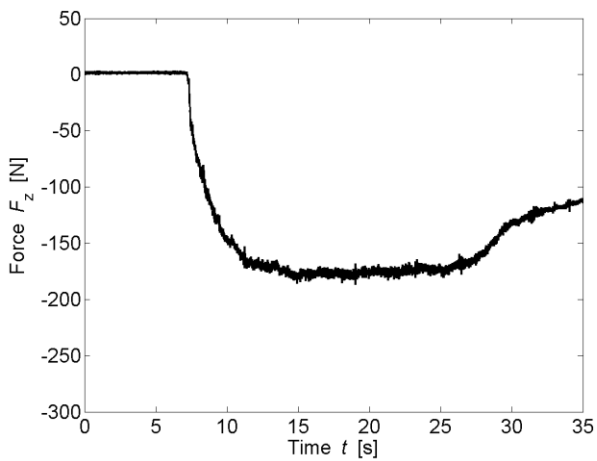
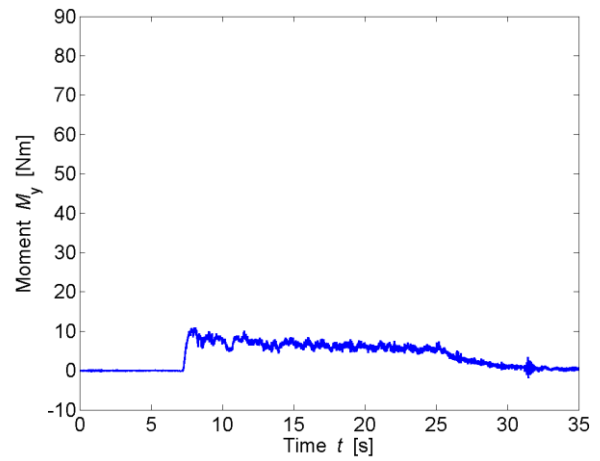
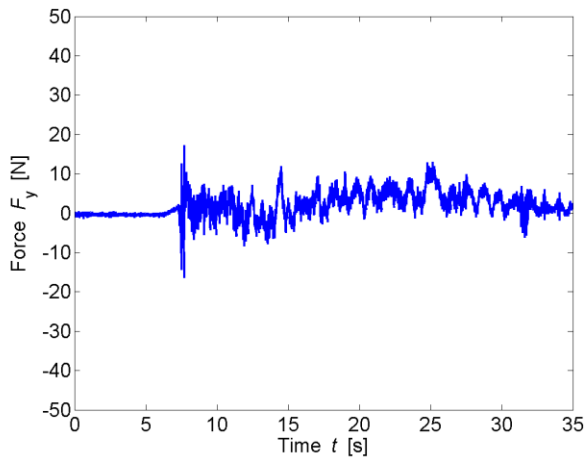
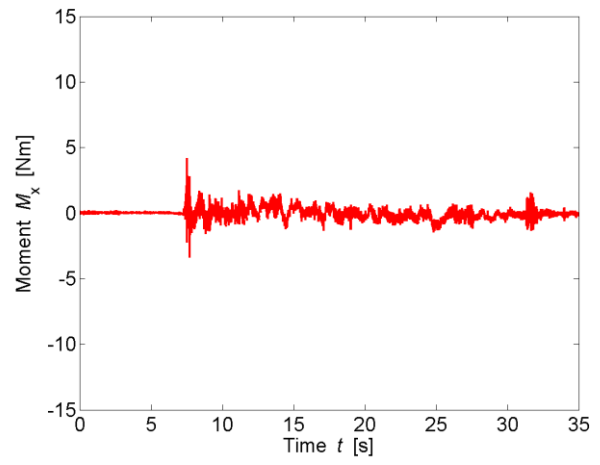
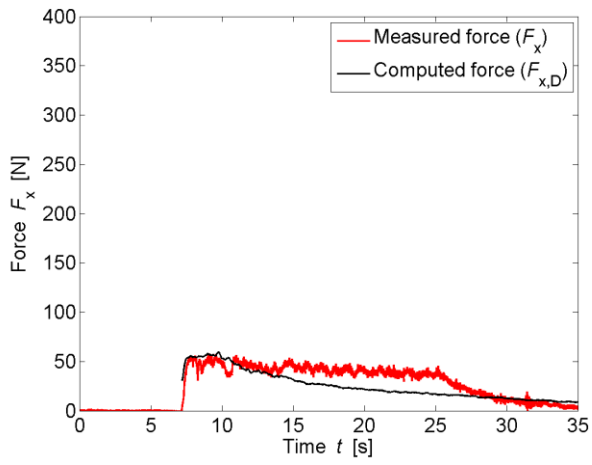


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.843	57.940	[N]
F_y	-16.441	17.208	[N]
F_z	-186.689	1.858	[N]
M_x	-3.357	4.205	[Nm]
M_y	-1.857	10.895	[Nm]
M_z	-1.145	0.657	[Nm]
Predicted Force	$F_{x,D,max}$	59.483	[N]
Initial time	t_0	7.191	[s]
Time to peak	τ_{max}	1.912	[s]
Total impulse	I_{tot}	821.895	[Ns]
Peak Impulse	I_{peak}	84.153	[Ns]
Relative impulse	I^*	0.100	[-]
Wave height at $F_{x,max}$	h_M	0.745	[-]
Resistance coefficient	C_R	0.992	[-]

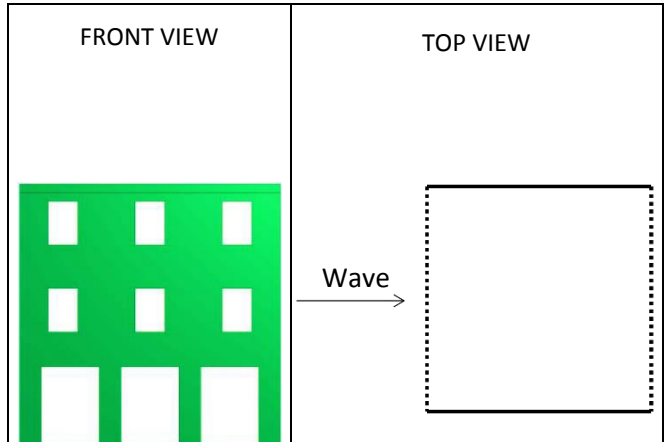


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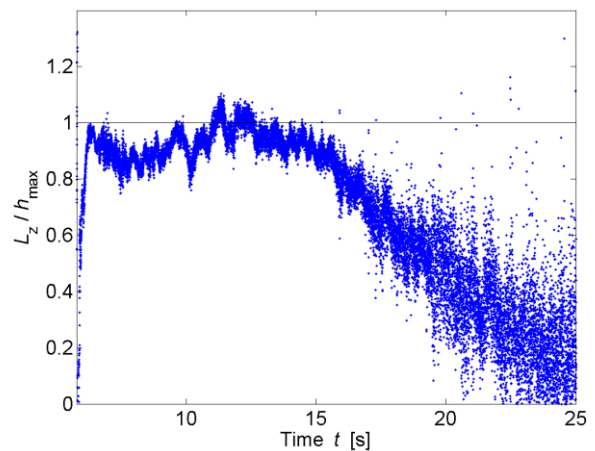
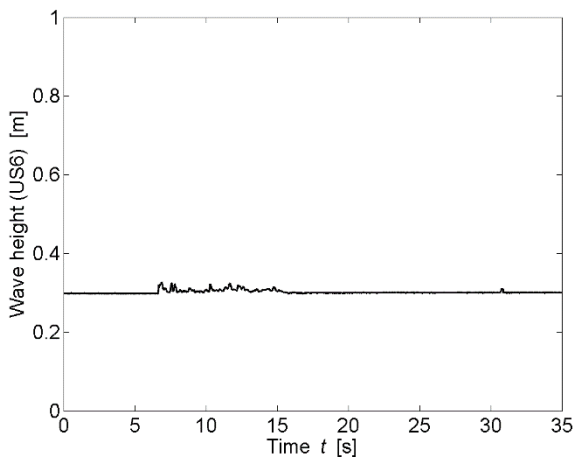
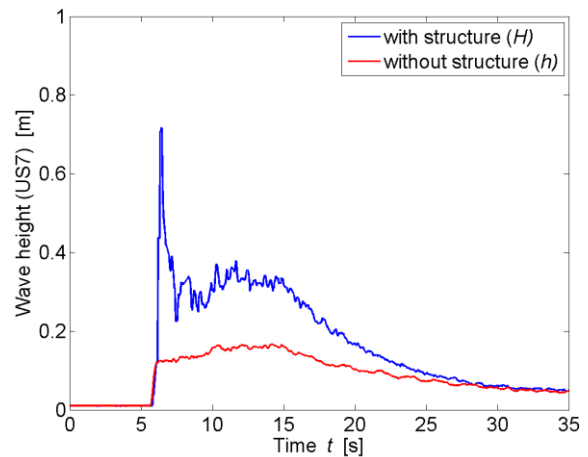
TEST PARAMETERS

Name	B31.34_F_WW1_2P_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	43.67	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.670	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.718	[m]

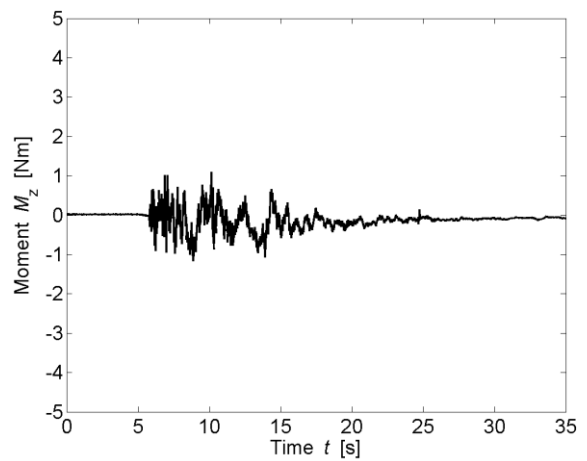
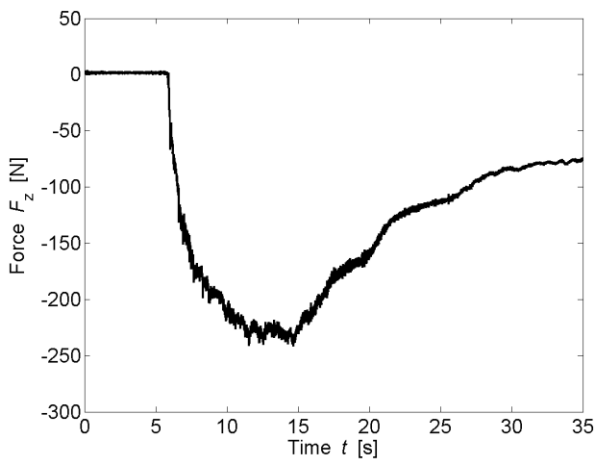
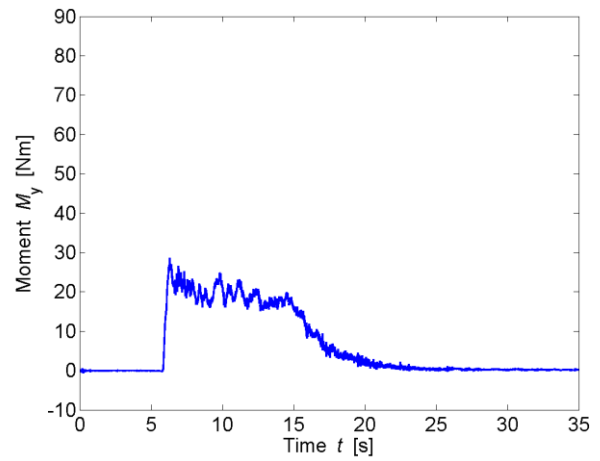
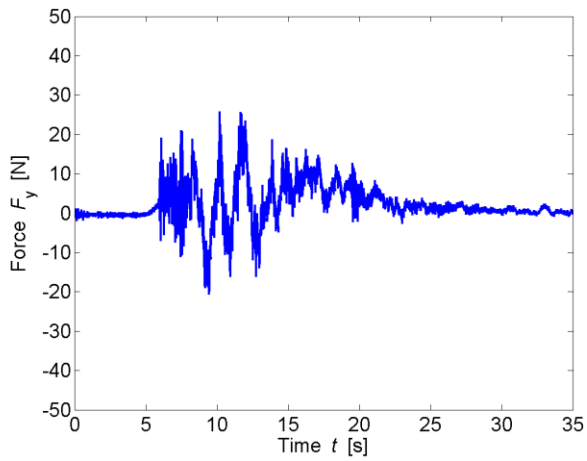
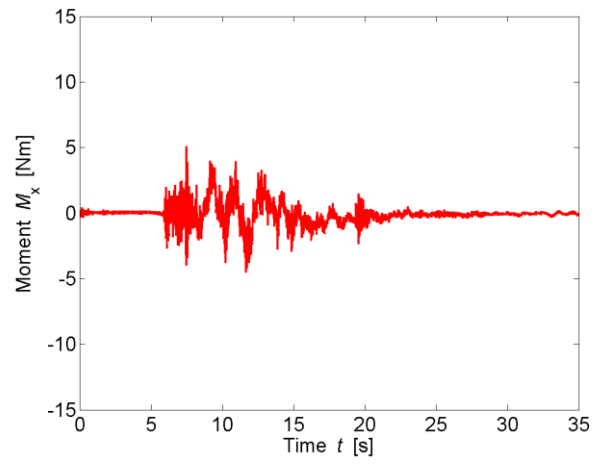
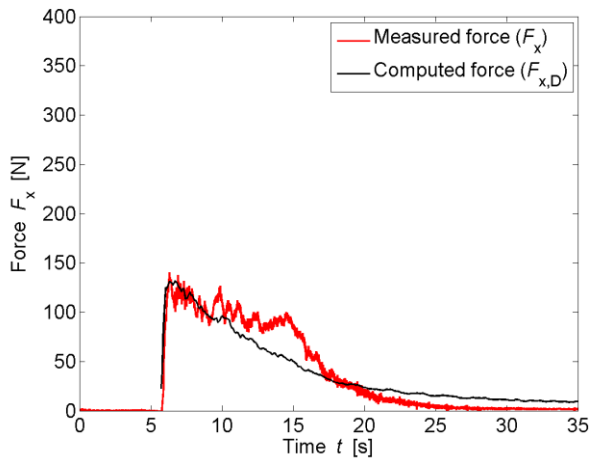


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.536	140.562	[N]
F_y	-20.675	25.822	[N]
F_z	-241.510	1.390	[N]
M_x	-4.519	5.089	[Nm]
M_y	-1.098	28.650	[Nm]
M_z	-1.163	1.099	[Nm]
Predicted Force	$F_{x,D,max}$	131.712	[N]
Initial time	t_0	5.829	[s]
Time to peak	τ_{max}	0.488	[s]
Total impulse	I_{tot}	1191.783	[Ns]
Peak Impulse	I_{peak}	41.463	[Ns]
Relative impulse	I^*	0.036	[-]
Wave height at $F_{x,max}$	h_M	0.748	[-]
Resistance coefficient	C_R	1.124	[-]

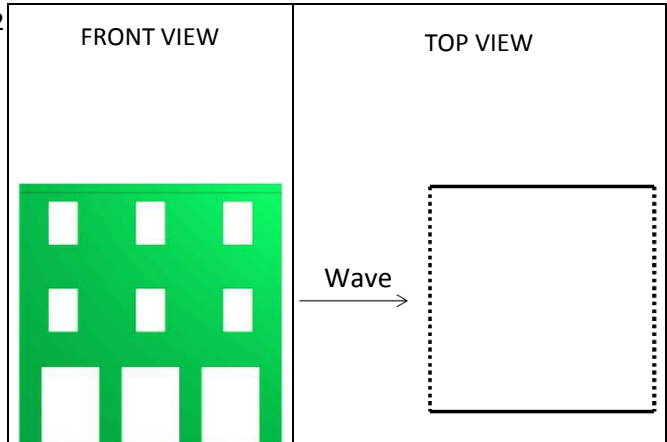


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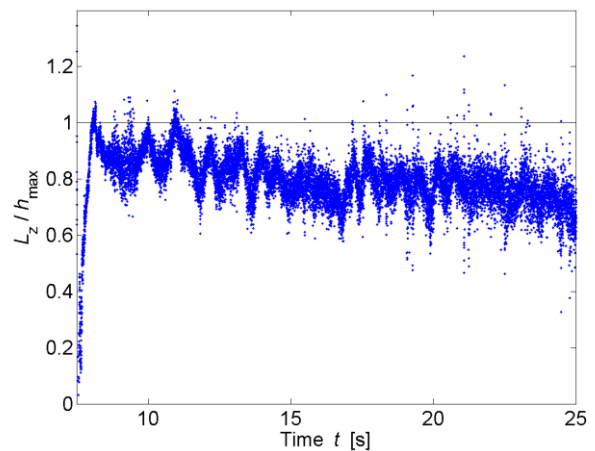
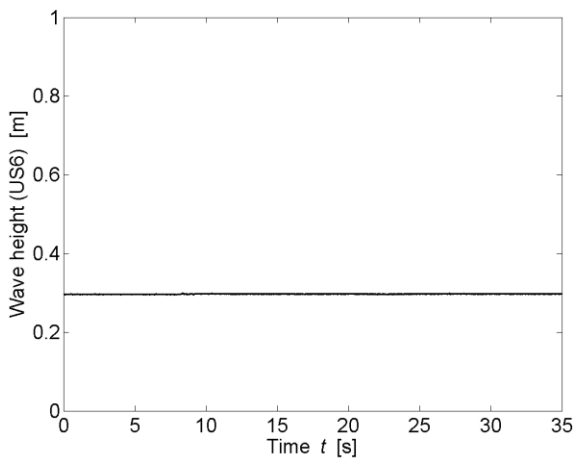
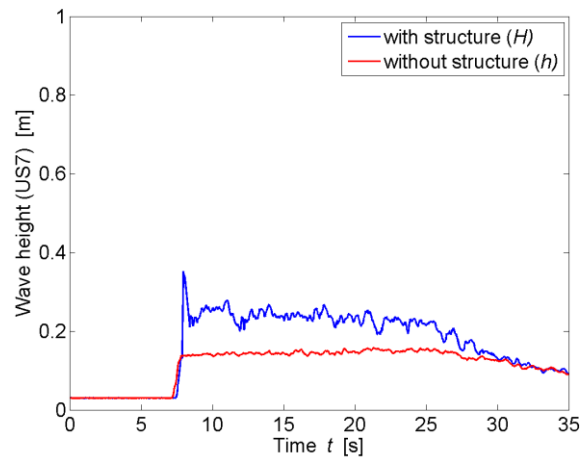
TEST PARAMETERS

Name	B31.34_F_WW3_1P_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	44.28	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.953	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.352	[m]

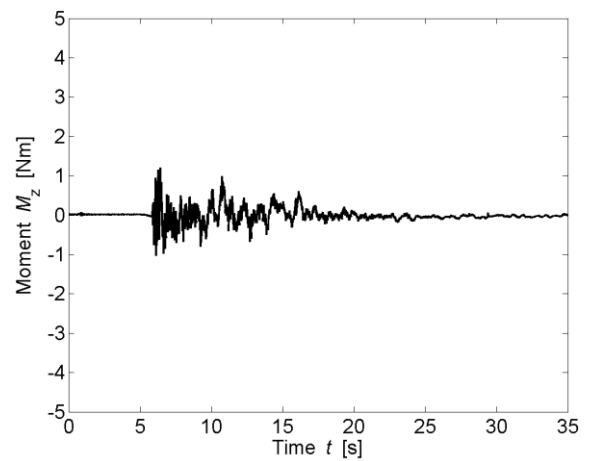
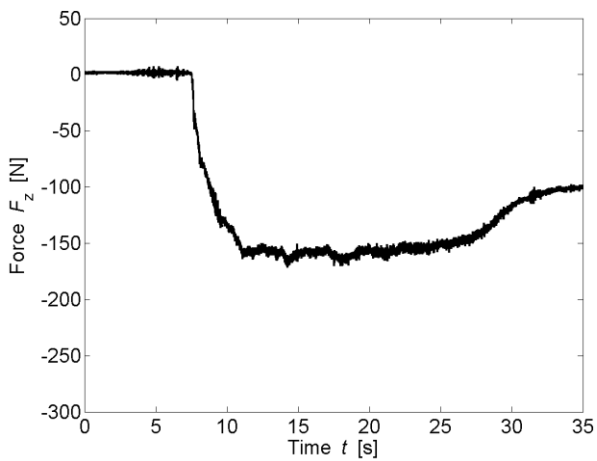
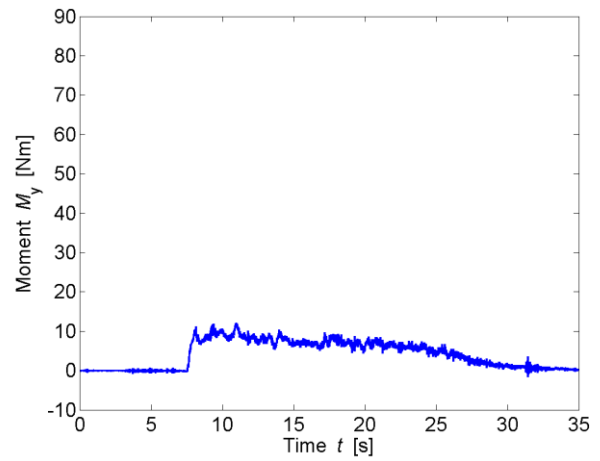
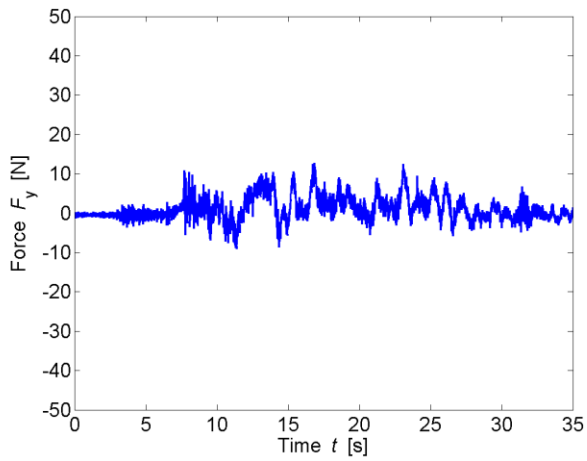
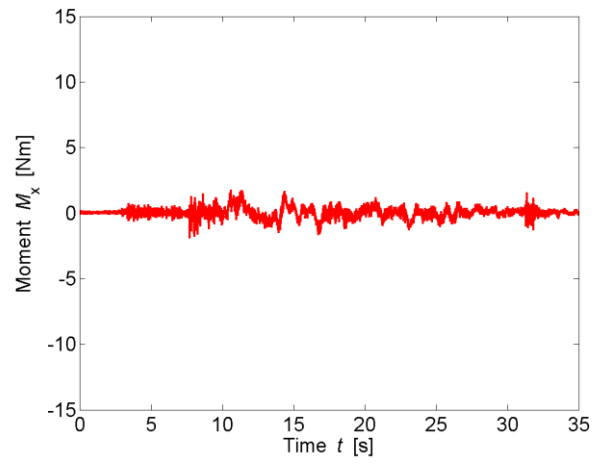
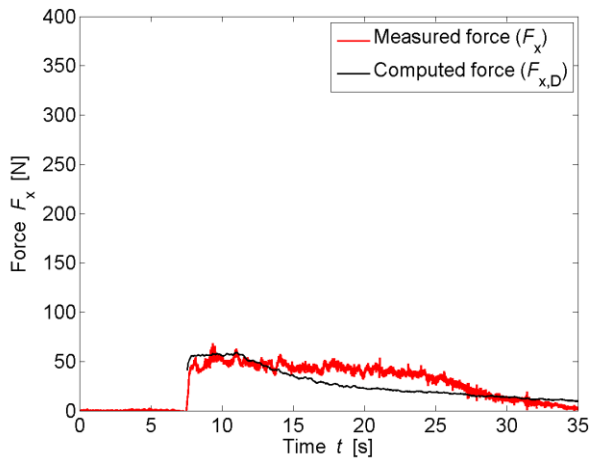


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.786	68.488	[N]
F_y	-9.051	12.705	[N]
F_z	-171.508	0.000	[N]
M_x	-1.918	1.766	[Nm]
M_y	-1.564	12.033	[Nm]
M_z	-0.611	0.788	[Nm]
Predicted Force	$F_{x,D,max}$	59.051	[N]
Initial time	t_0	7.538	[s]
Time to peak	τ_{max}	1.818	[s]
Total impulse	I_{tot}	837.259	[Ns]
Peak Impulse	I_{peak}	79.500	[Ns]
Relative impulse	I^*	0.093	[-]
Wave height at $F_{x,max}$	h_M	0.894	[-]
Resistance coefficient	C_R	1.181	[-]

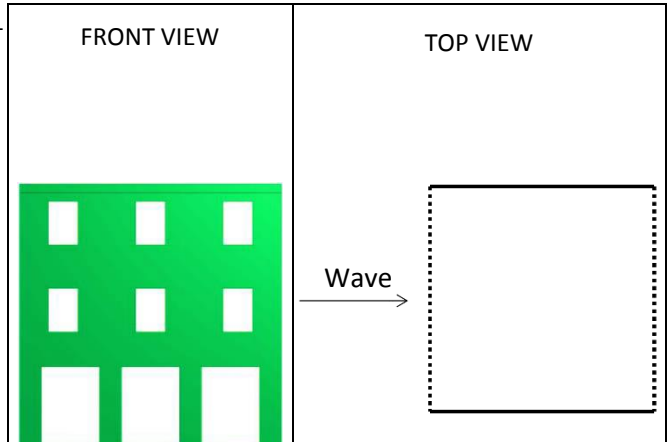


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TEST PARAMETERS

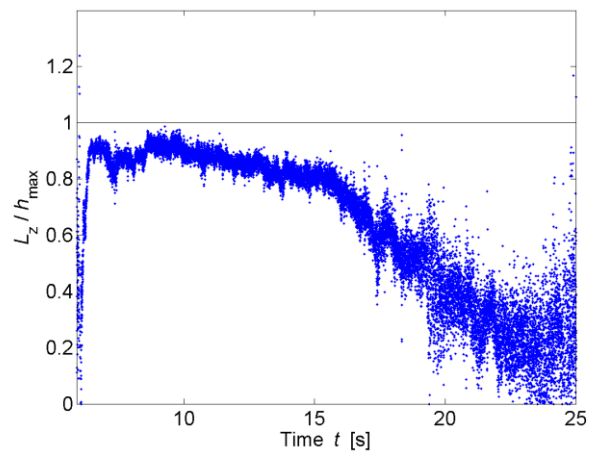
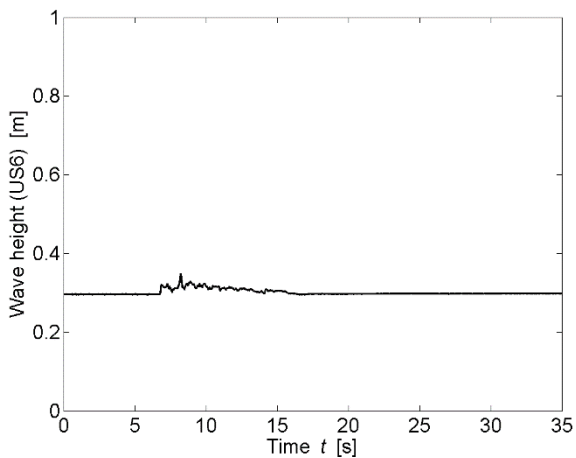
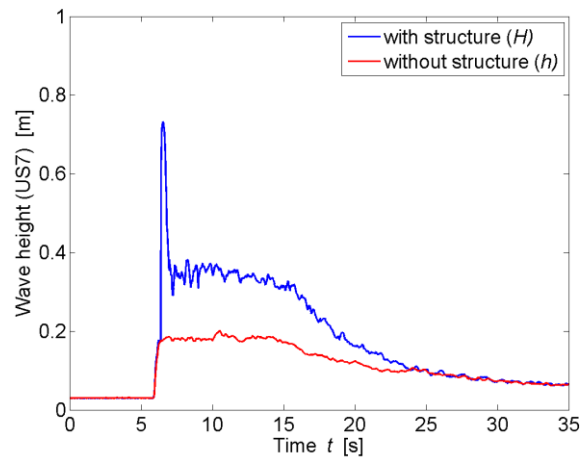
Name	B31.34_F_WW3_2P_1		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	39.07	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.482	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.733	[m]

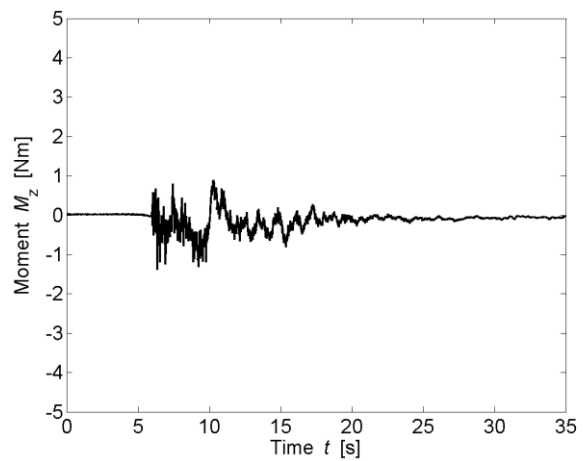
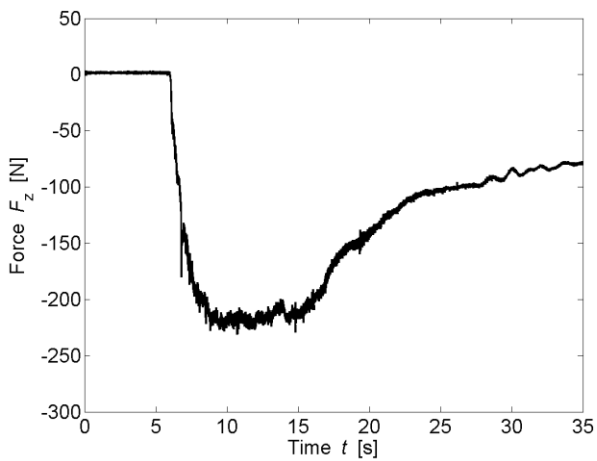
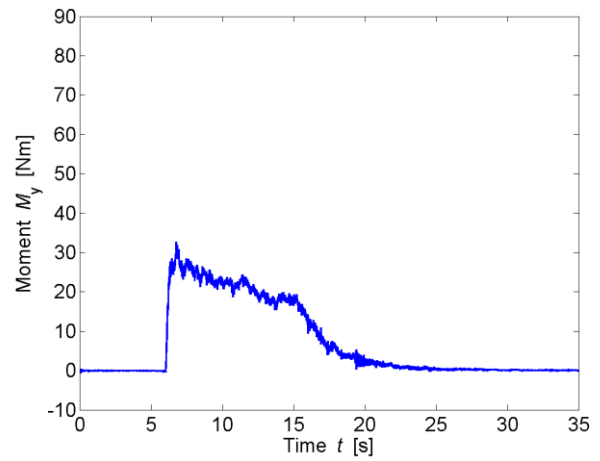
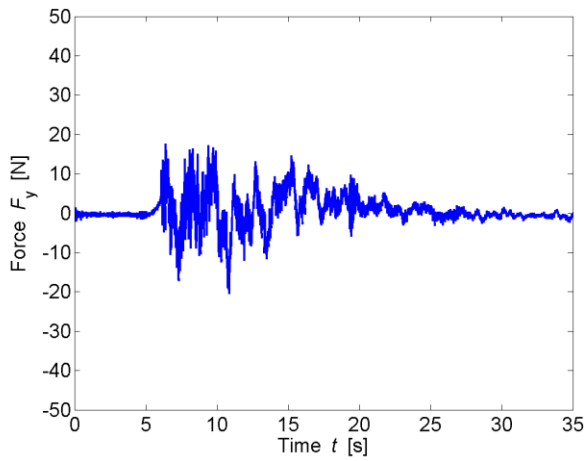
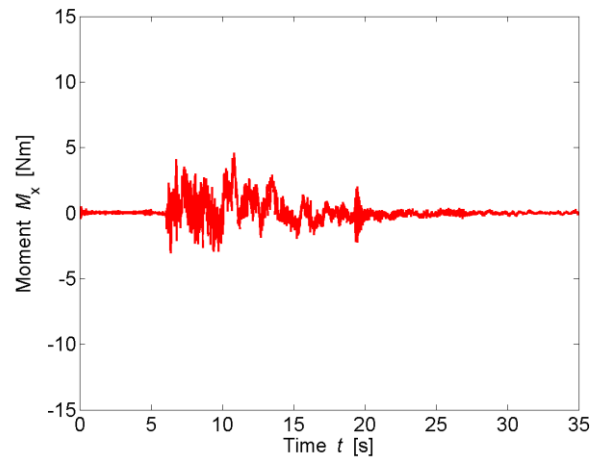
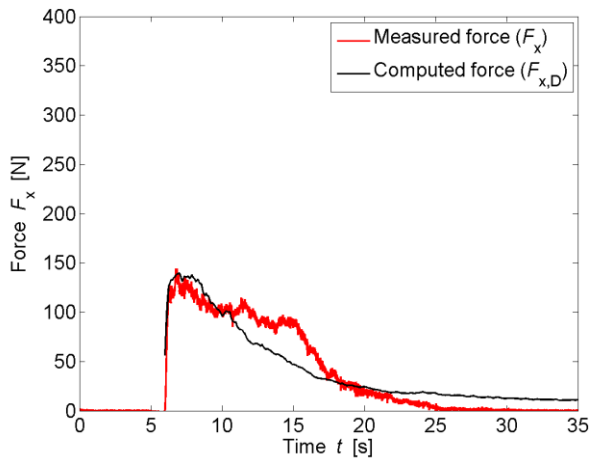


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.569	144.312	[N]
F_y	-20.552	17.575	[N]
F_z	-230.921	2.420	[N]
M_x	-3.044	4.612	[Nm]
M_y	-0.879	32.731	[Nm]
M_z	-1.380	0.894	[Nm]

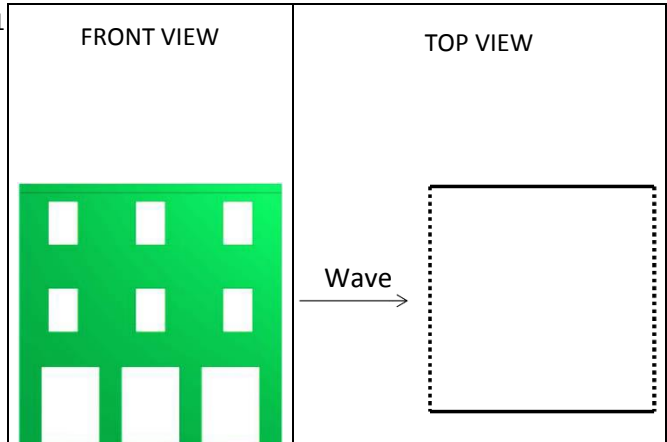
Predicted Force	$F_{x,D,max}$	152.425	[N]
Initial time	t_0	5.937	[s]
Time to peak	τ_{max}	0.891	[s]
Total impulse	I_{tot}	1211.447	[Ns]
Peak Impulse	I_{peak}	85.135	[Ns]
Relative impulse	I^*	0.072	[-]
Wave height at $F_{x,max}$	h_M	0.919	[-]
Resistance coefficient	C_R	1.137	[-]





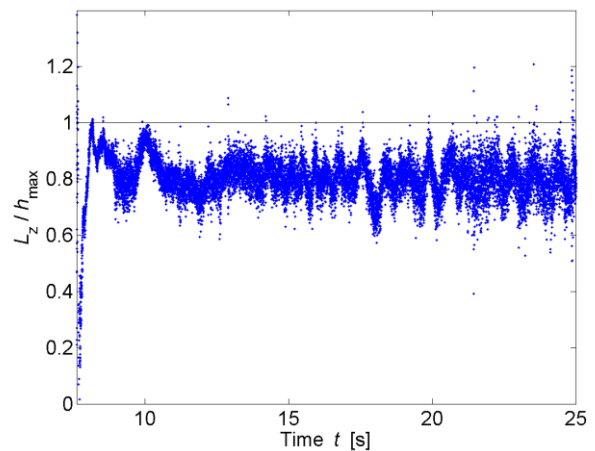
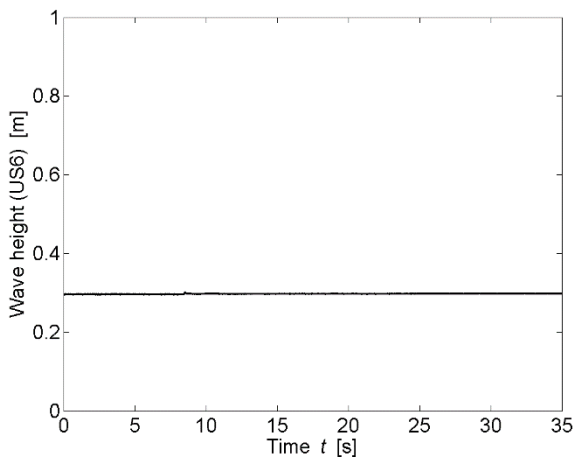
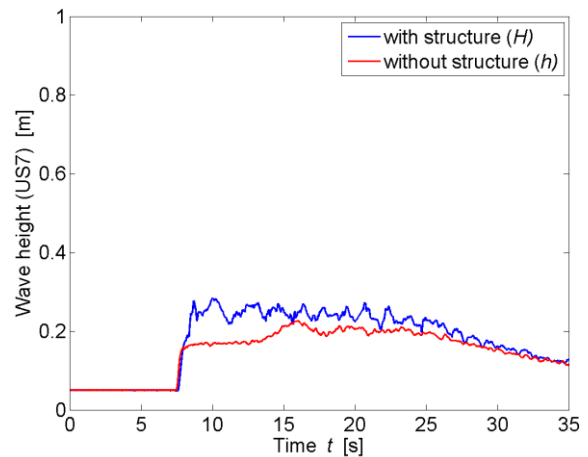
TEST PARAMETERS

Name	B31.34_F_WW5_1P_1		
Repetitions	3		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	43.06	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.928	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.284	[m]

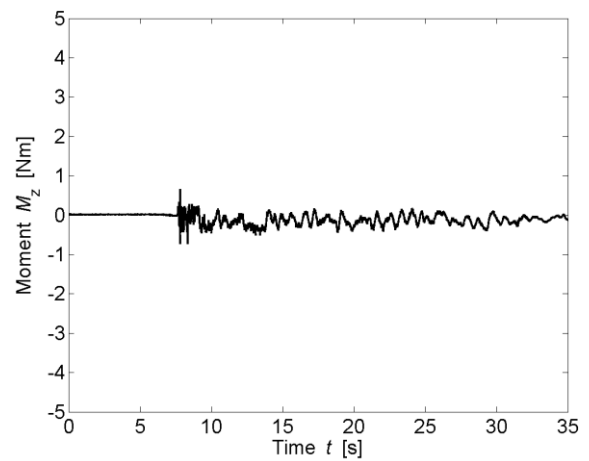
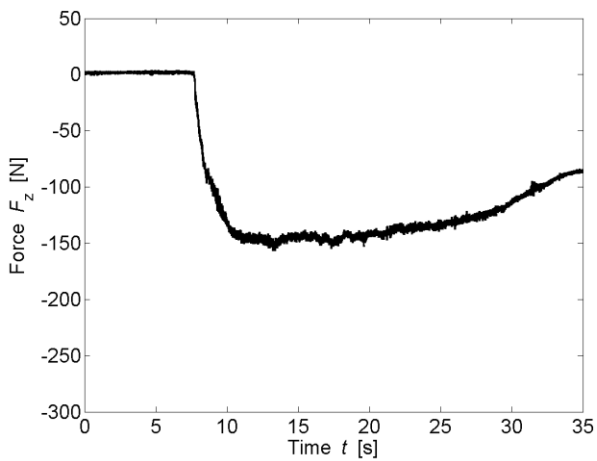
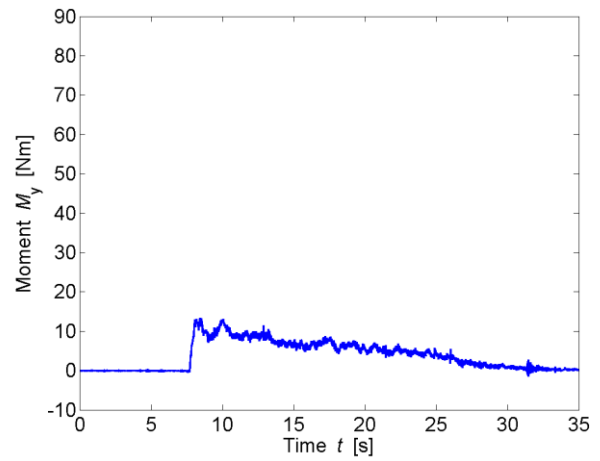
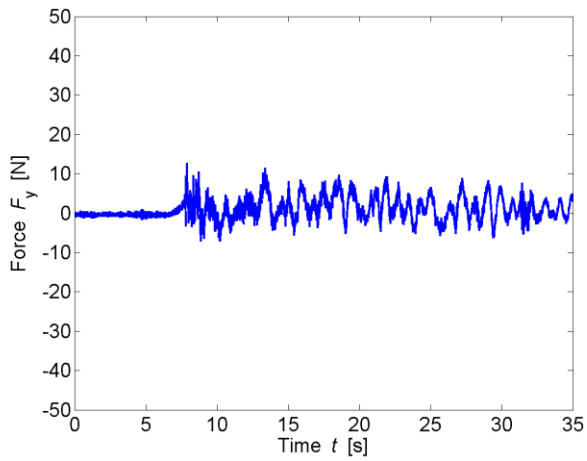
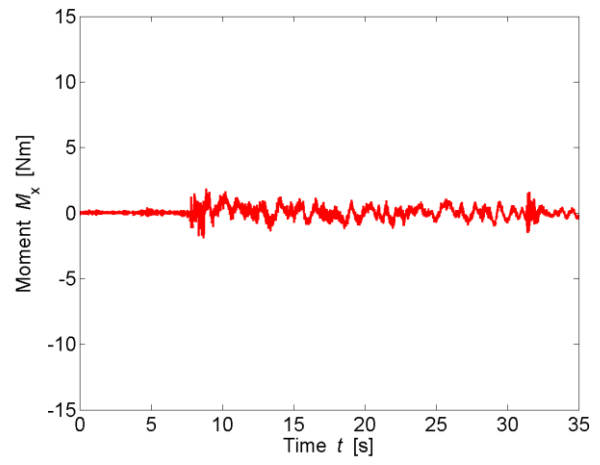
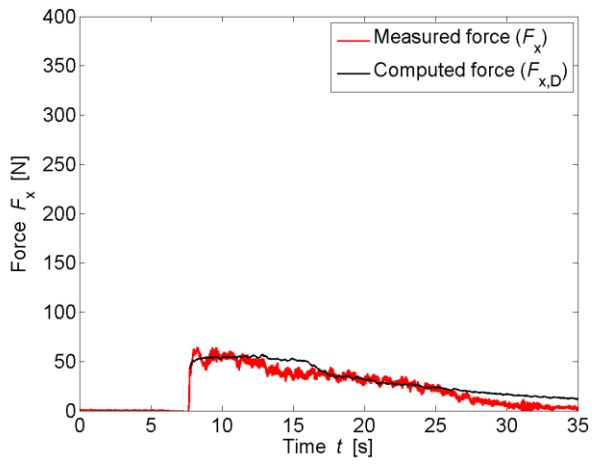


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.133	65.585	[N]
F_y	-7.191	12.681	[N]
F_z	-156.608	2.795	[N]
M_x	-1.903	1.871	[Nm]
M_y	-1.441	13.349	[Nm]
M_z	-0.727	0.658	[Nm]
Predicted Force	$F_{x,D,max}$	56.803	[N]
Initial time	t_0	7.671	[s]
Time to peak	τ_{max}	0.778	[s]
Total impulse	I_{tot}	719.233	[Ns]
Peak Impulse	I_{peak}	36.807	[Ns]
Relative impulse	I^*	0.051	[-]
Wave height at $F_{x,max}$	h_M	0.724	[-]
Resistance coefficient	C_R	1.229	[-]

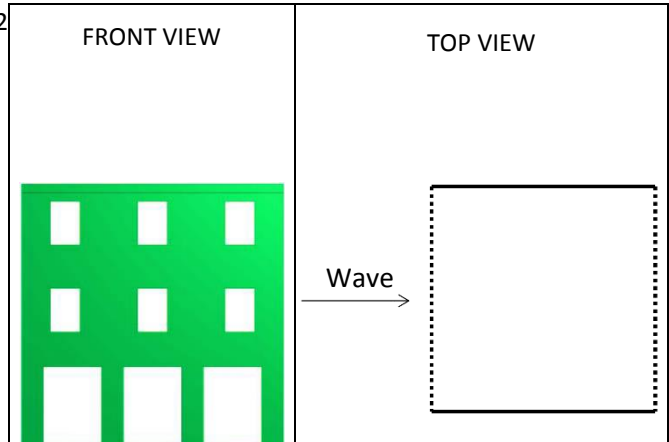


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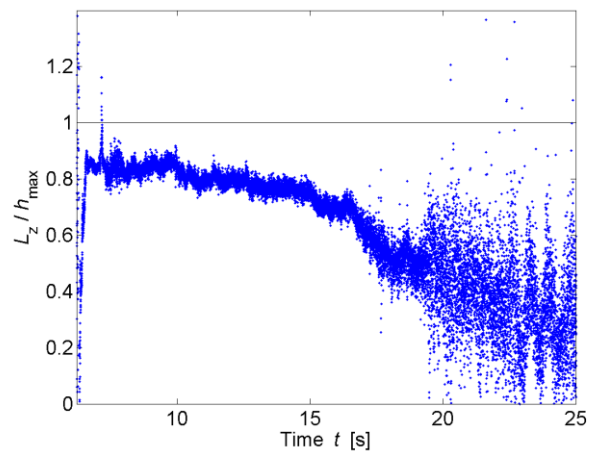
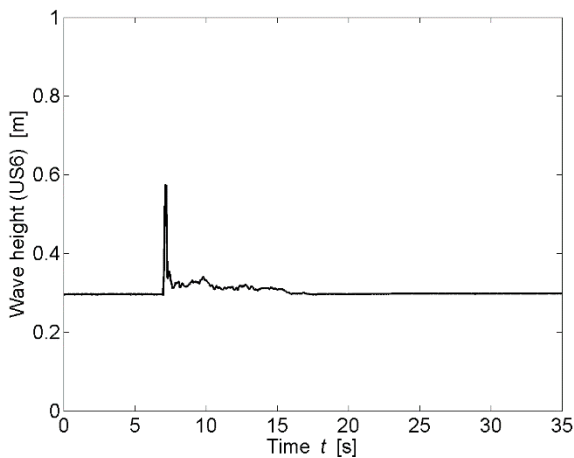
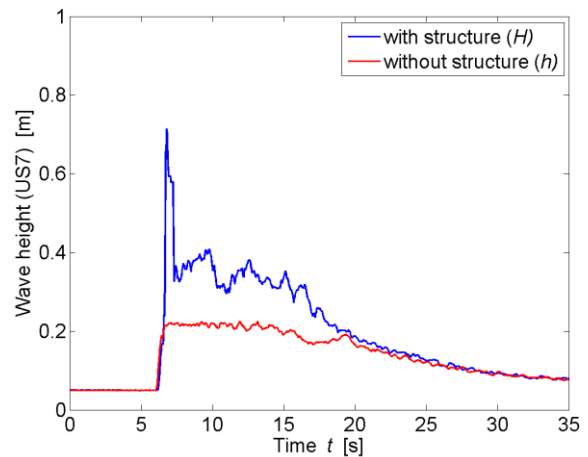
TEST PARAMETERS

Name	B31.34_F_WW5_2P_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	34.61	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.409	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.715	[m]

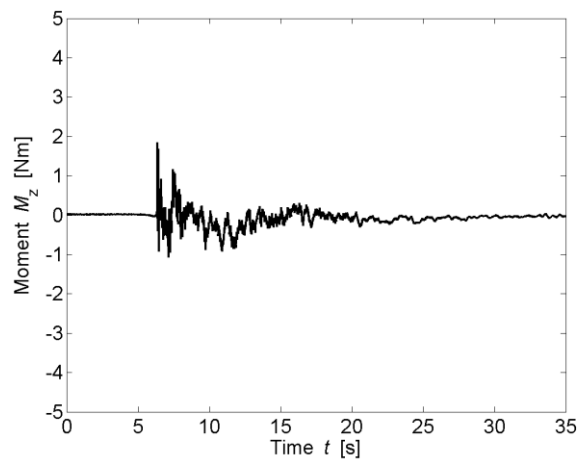
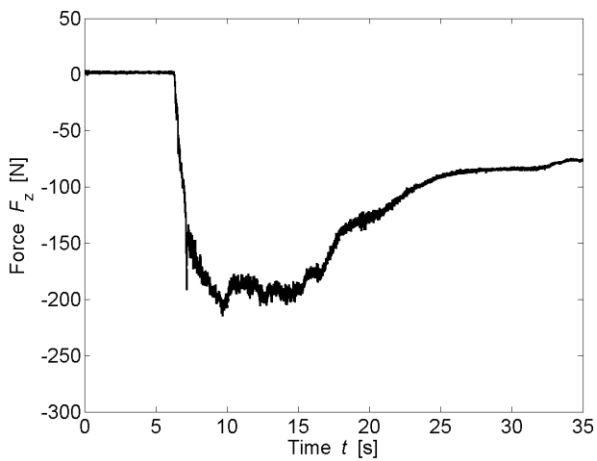
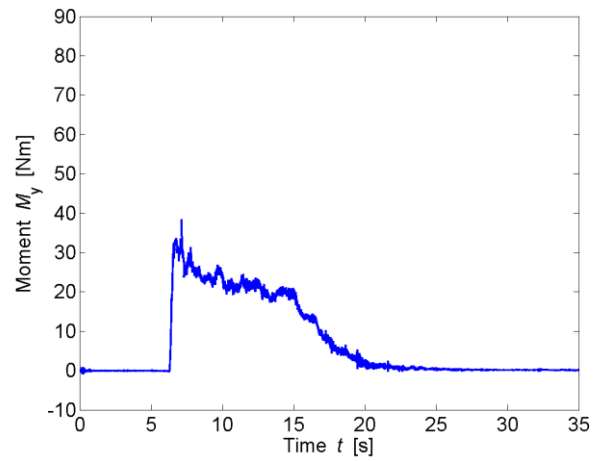
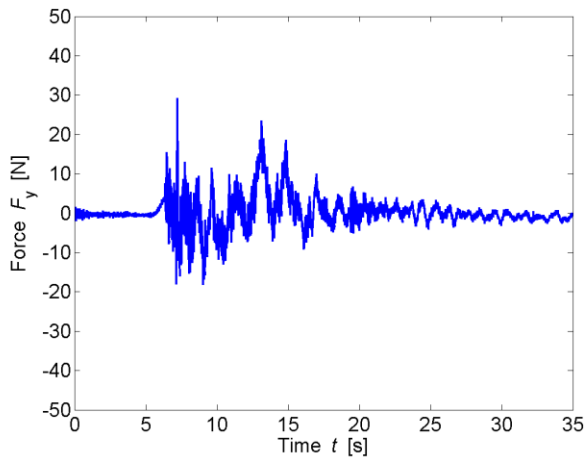
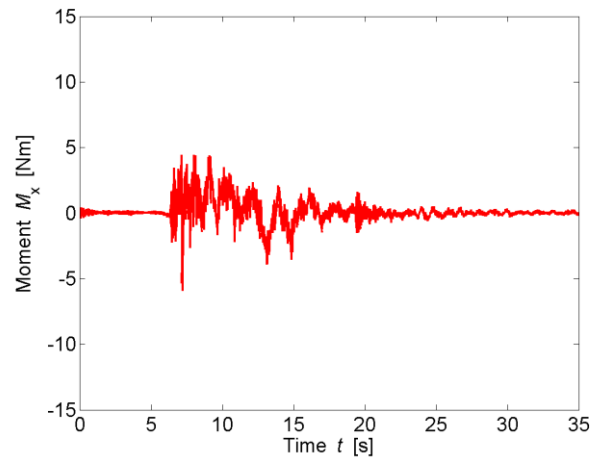
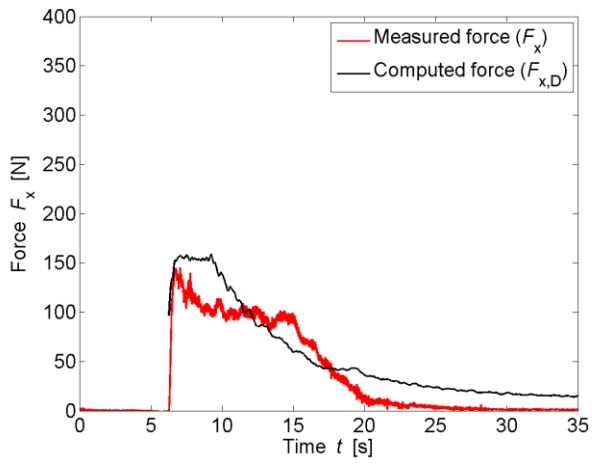


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.609	145.110	[N]
F_y	-18.130	29.273	[N]
F_z	-214.897	2.420	[N]
M_x	-5.895	4.445	[Nm]
M_y	-1.488	38.411	[Nm]
M_z	-1.075	1.848	[Nm]
Predicted Force	$F_{x,D,max}$	158.807	[N]
Initial time	t_0	6.255	[s]
Time to peak	τ_{max}	0.818	[s]
Total impulse	I_{tot}	1173.190	[Ns]
Peak Impulse	I_{peak}	87.588	[Ns]
Relative impulse	I^*	0.076	[-]
Wave height at $F_{x,max}$	h_M	0.984	[-]
Resistance coefficient	C_R	1.183	[-]

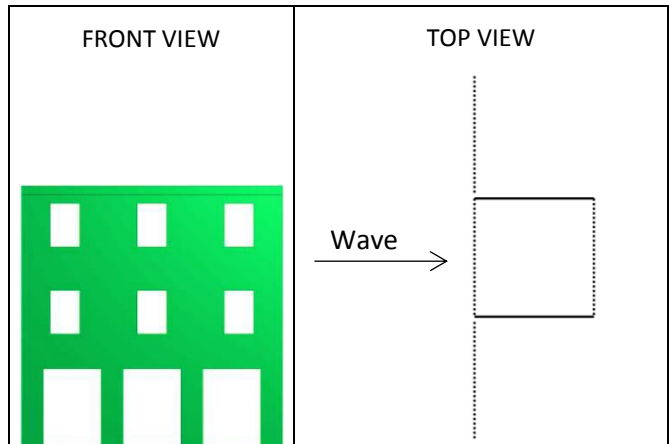


* All parameters are presented and defined at the beginning of the Appendix



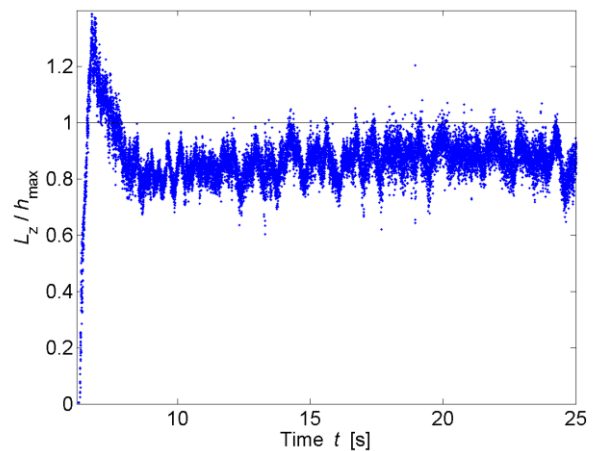
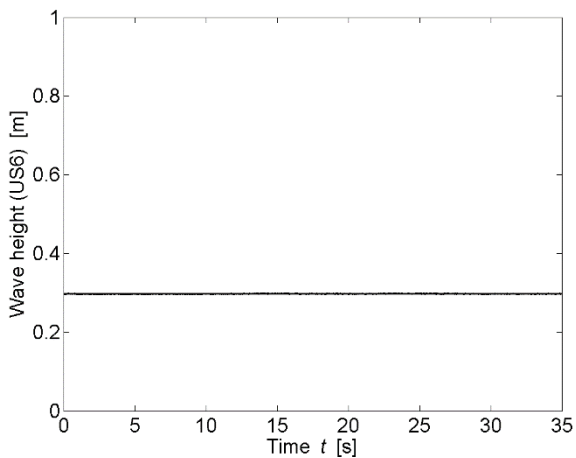
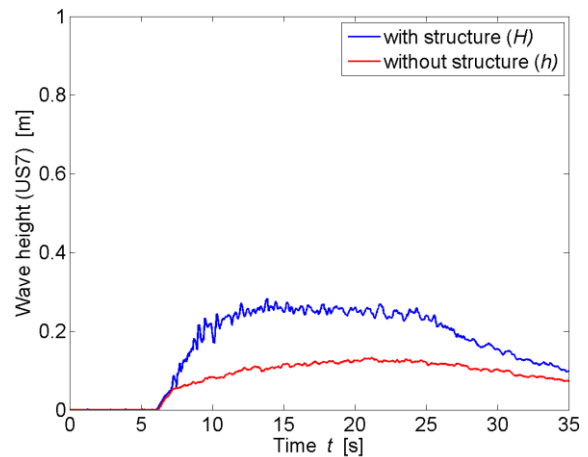
TEST PARAMETERS

Name	B31.34_S_WD1_2		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	46.04	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.422	[m/s]
Maximum wave height	h_{max}	0.133	[m]
Maximum run-up height	H_{max}	0.282	[m]

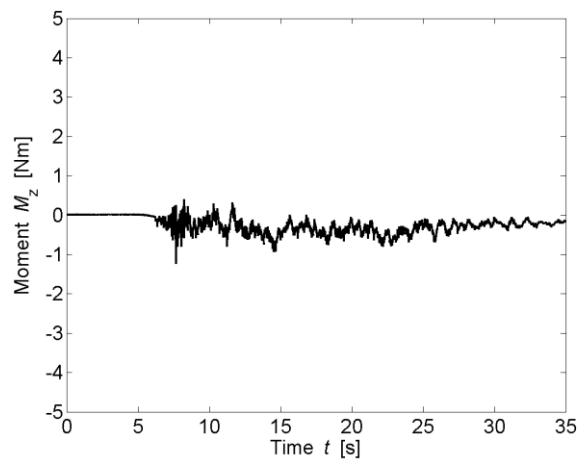
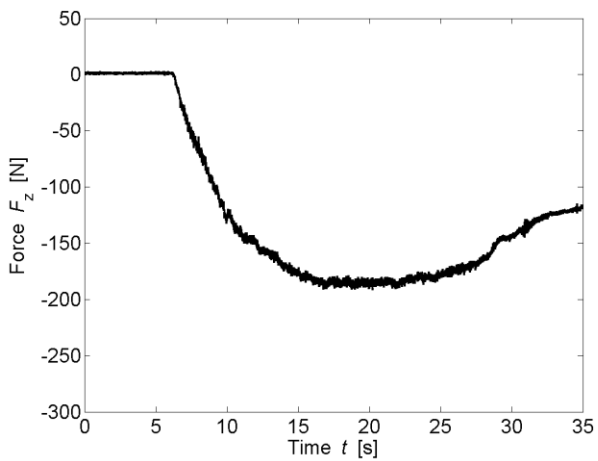
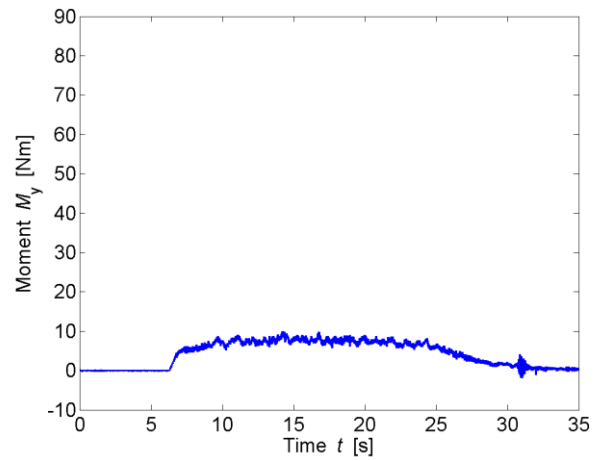
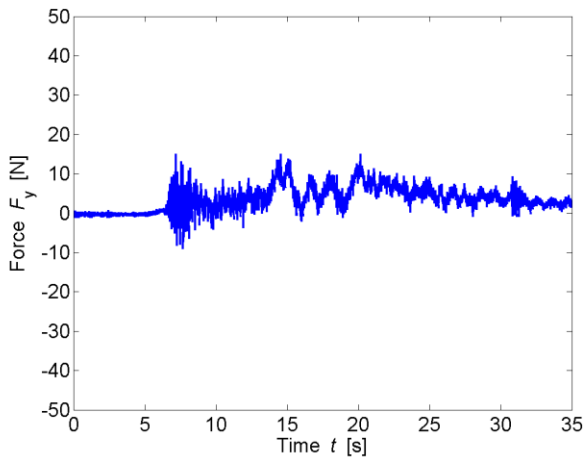
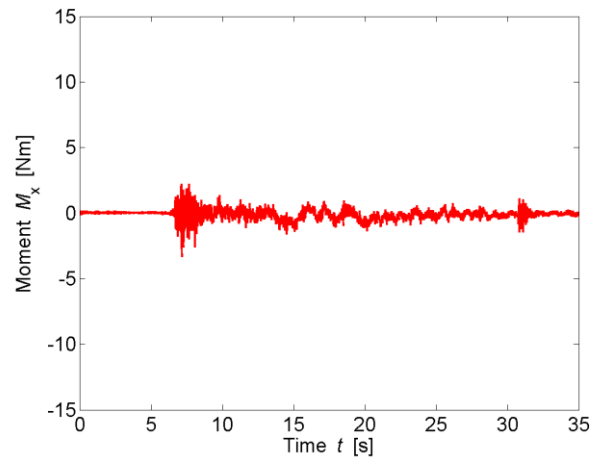
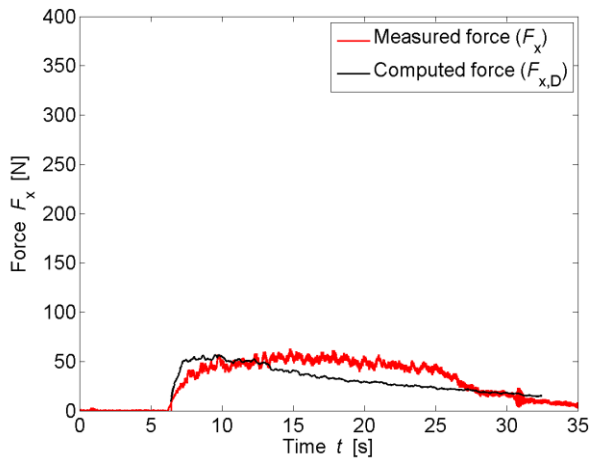


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.569	61.037	[N]
F_y	-9.002	15.079	[N]
F_z	-191.375	0.734	[N]
M_x	-3.325	2.246	[Nm]
M_y	-1.870	9.896	[Nm]
M_z	-1.239	0.396	[Nm]
Predicted Force	$F_{x,D,max}$	56.943	[N]
Initial time	t_0	6.253	[s]
Time to peak	τ_{max}	7.988	[s]
Total impulse	I_{tot}	905.902	[Ns]
Peak Impulse	I_{peak}	340.394	[Ns]
Relative impulse	I^*	0.365	[-]
Wave height at $F_{x,max}$	h_M	0.814	[-]
Resistance coefficient	C_R	1.774	[-]

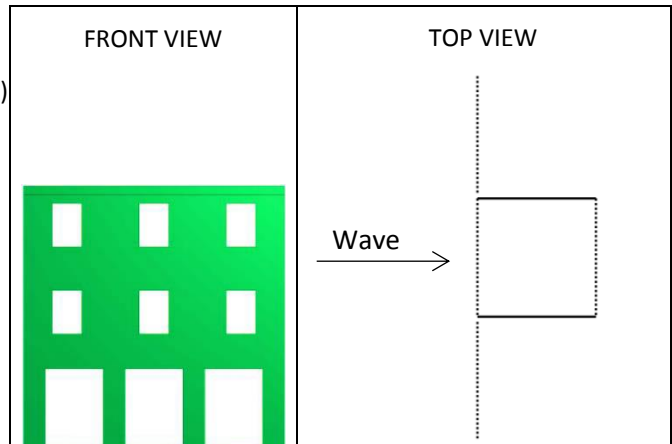


* All parameters are presented and defined at the beginning of the Appendix



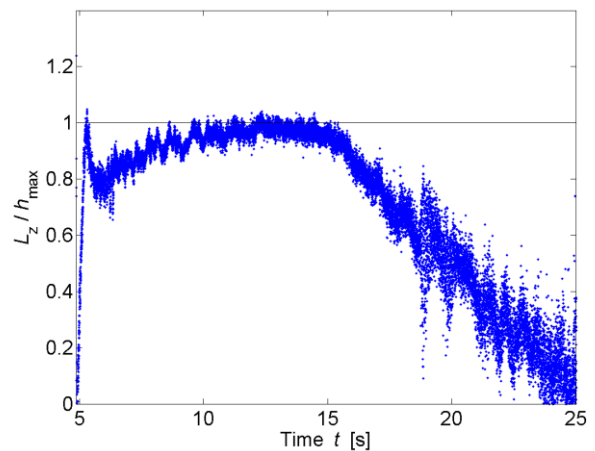
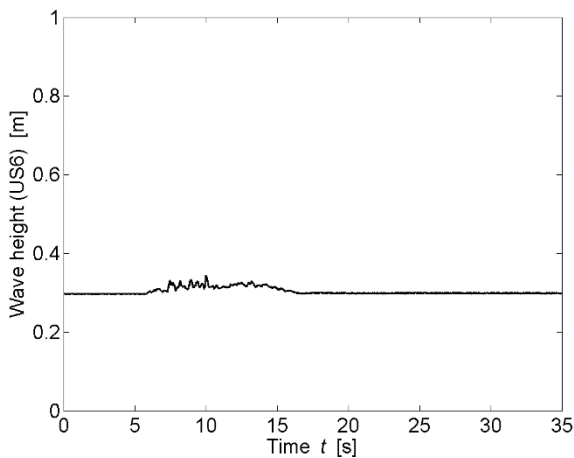
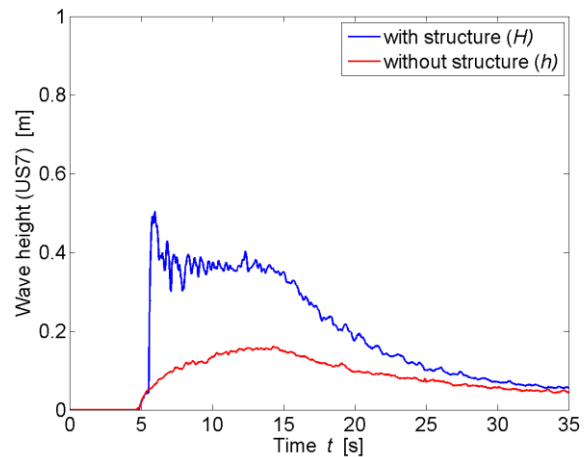
TEST PARAMETERS

Name	B31.34_S_WD2_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	44.08	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.068	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.504	[m]

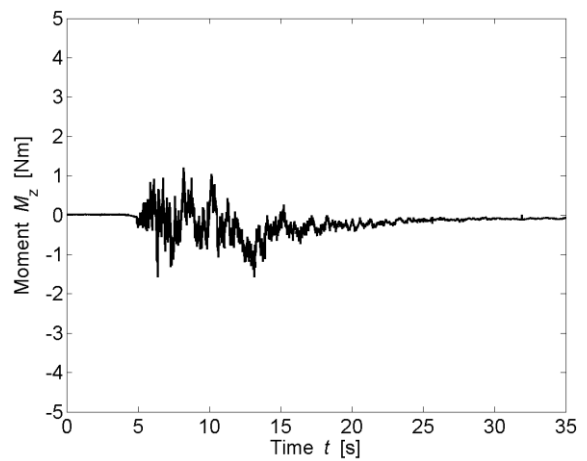
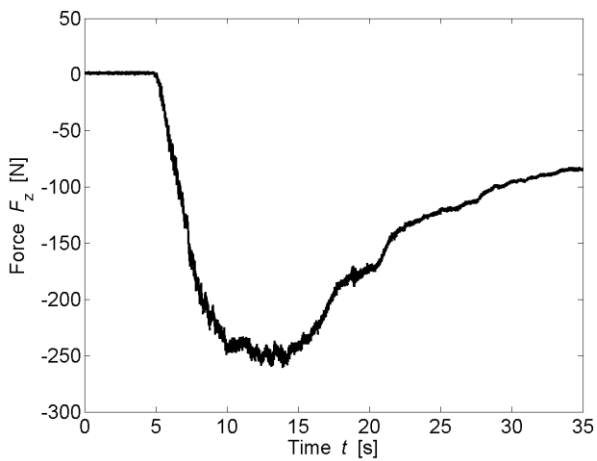
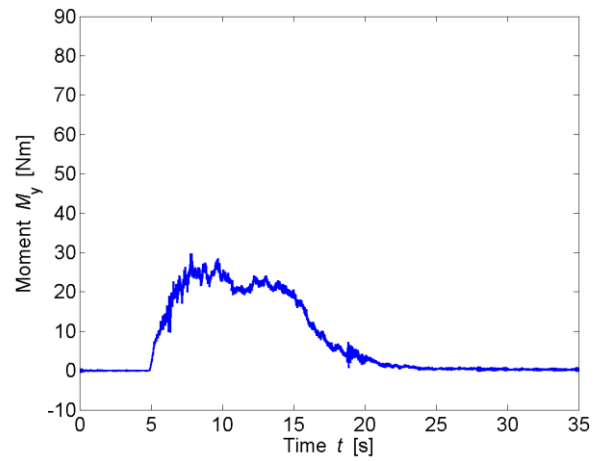
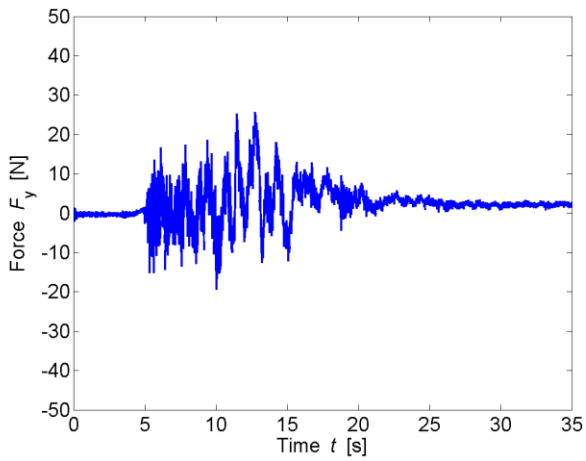
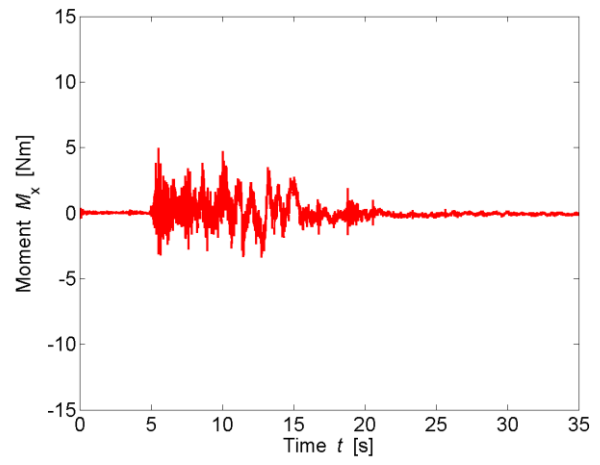
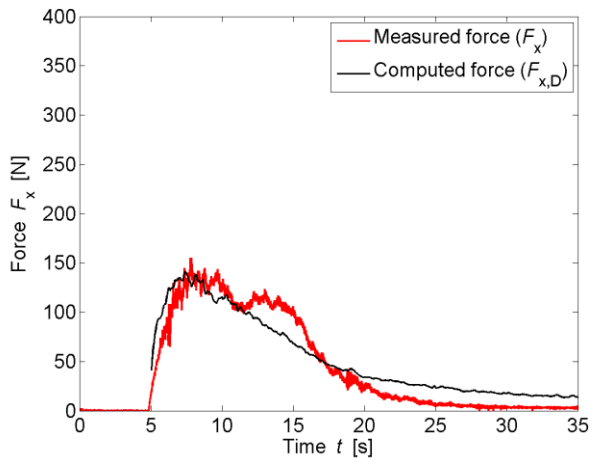


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.964	154.957	[N]
F_y	-19.427	25.724	[N]
F_z	-260.628	1.671	[N]
M_x	-3.362	4.948	[Nm]
M_y	-1.232	29.746	[Nm]
M_z	-1.578	1.206	[Nm]
Predicted Force	$F_{x,D,max}$	141.920	[N]
Initial time	t_0	4.938	[s]
Time to peak	τ_{max}	2.856	[s]
Total impulse	I_{tot}	1446.423	[Ns]
Peak Impulse	I_{peak}	253.054	[Ns]
Relative impulse	I^*	0.182	[-]
Wave height at $F_{x,max}$	h_M	0.648	[-]
Resistance coefficient	C_R	1.443	[-]

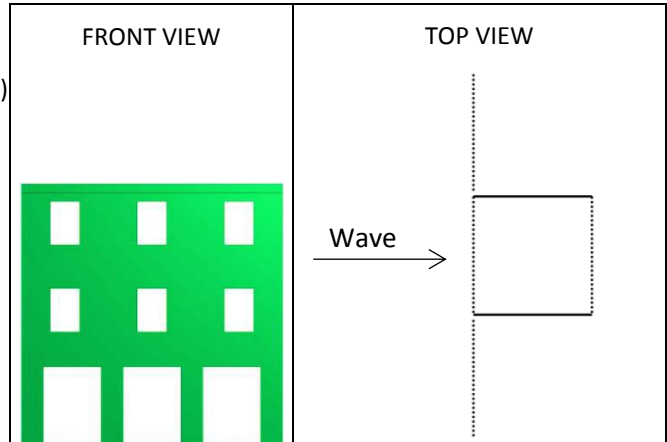


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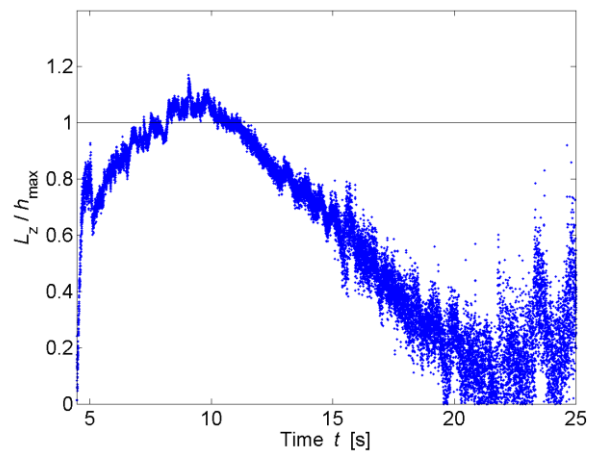
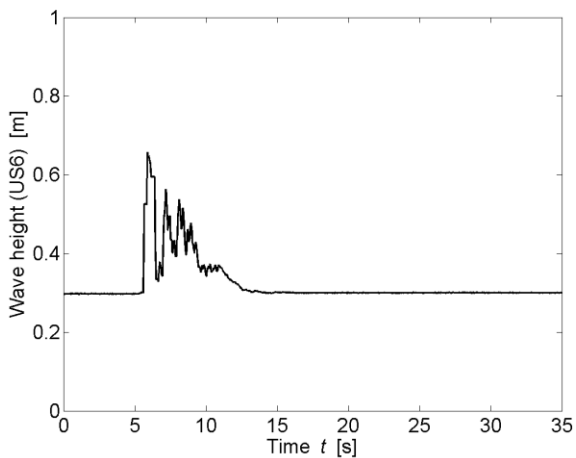
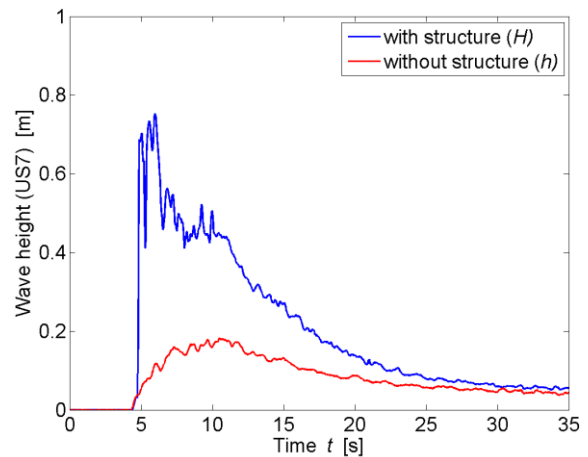
TEST PARAMETERS

Name	B31.34_S_WD3_2		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	42.60	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.548	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.781	[m]

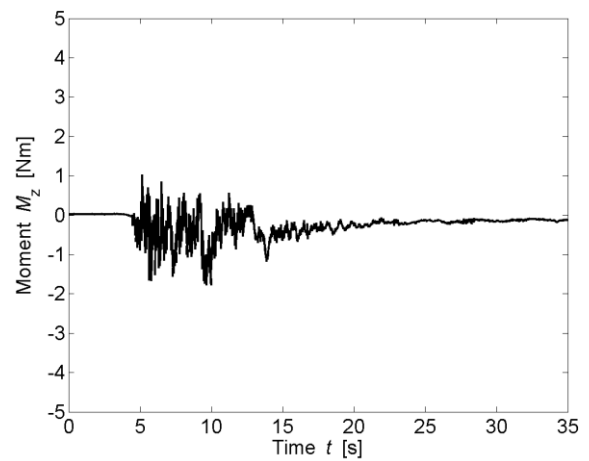
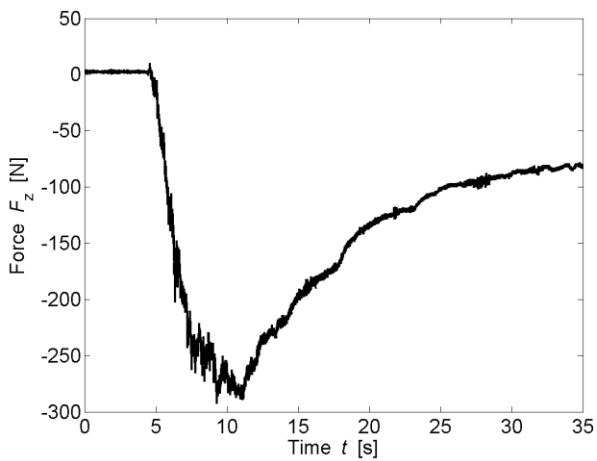
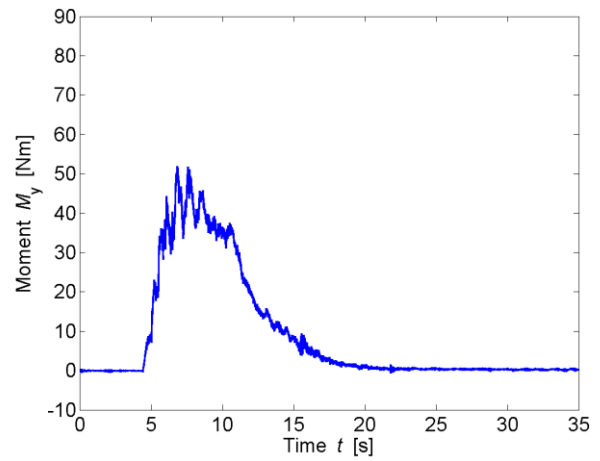
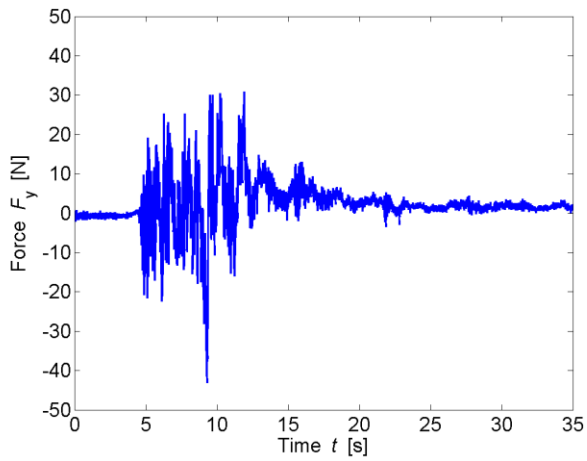
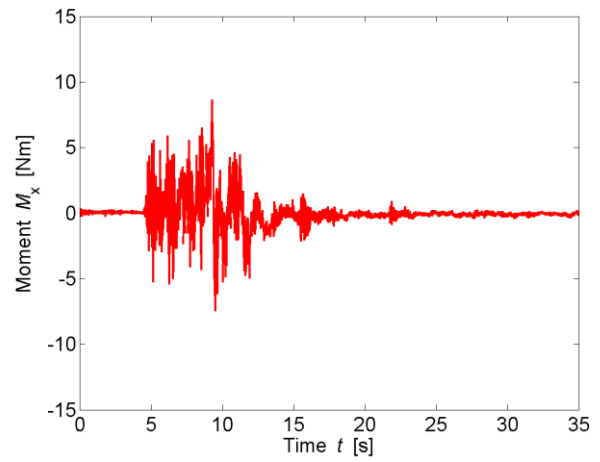
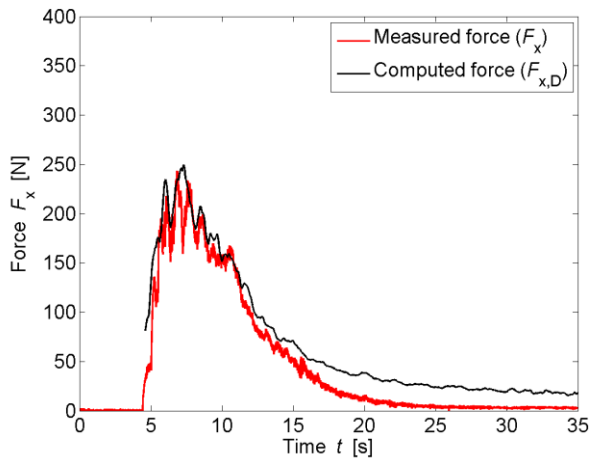


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.637	243.333	[N]
F_y	-43.112	30.794	[N]
F_z	-292.411	10.277	[N]
M_x	-7.464	8.656	[Nm]
M_y	-0.951	51.972	[Nm]
M_z	-1.777	1.034	[Nm]
Predicted Force	$F_{x,D,max}$	250.578	[N]
Initial time	t_0	4.501	[s]
Time to peak	τ_{max}	2.329	[s]
Total impulse	I_{tot}	1568.390	[Ns]
Peak Impulse	I_{peak}	315.315	[Ns]
Relative impulse	I^*	0.211	[-]
Wave height at $F_{x,max}$	h_M	0.751	[-]
Resistance coefficient	C_R	1.368	[-]

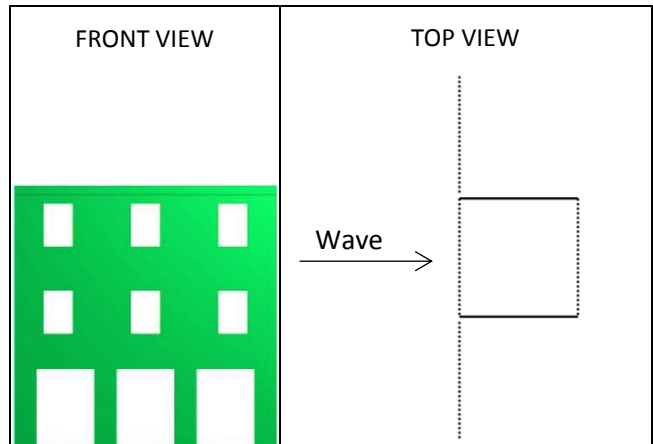


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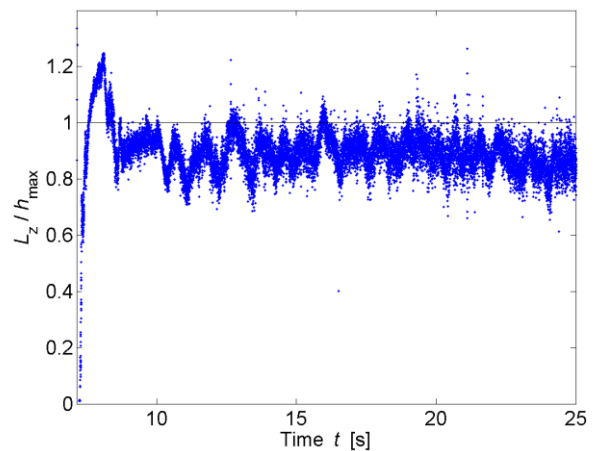
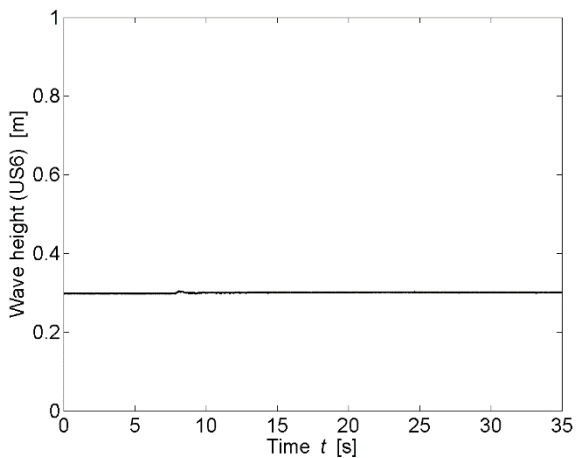
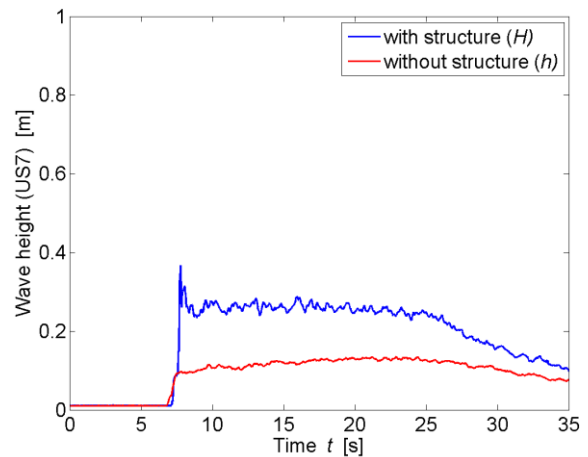
TEST PARAMETERS

Name	B31.34_S_WW1_1P_1		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	45.91	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.104	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.367	[m]

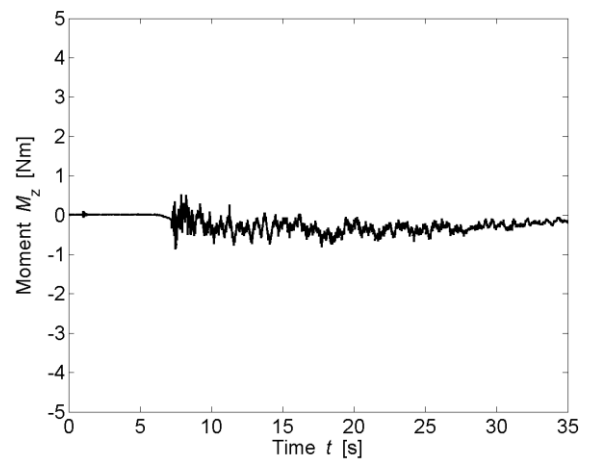
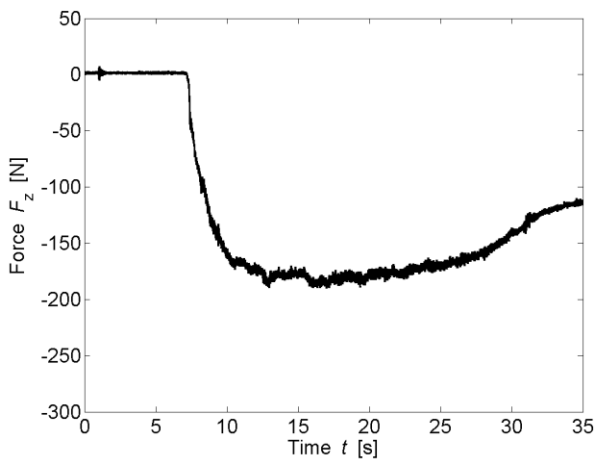
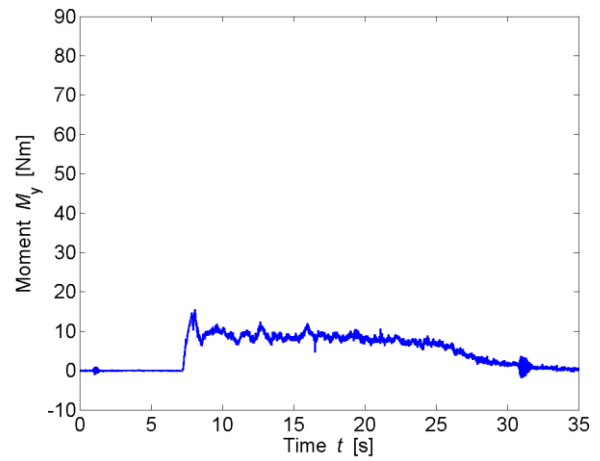
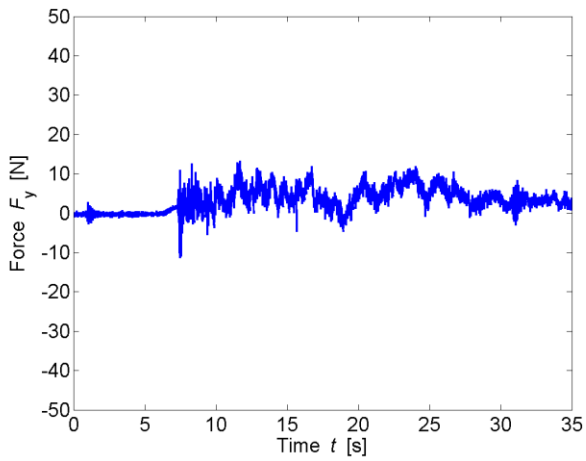
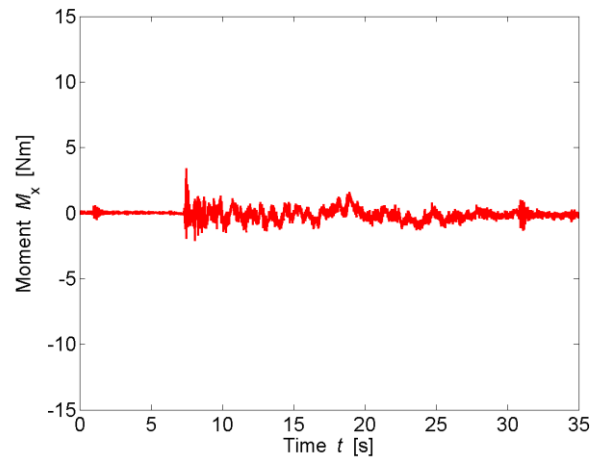
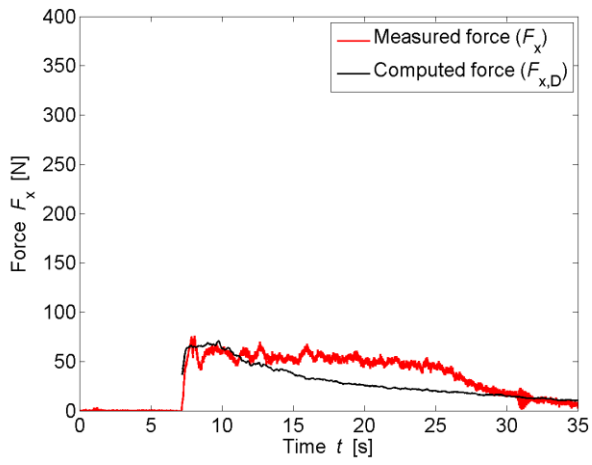


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.173	76.182	[N]
F_y	-11.400	13.244	[N]
F_z	-190.063	1.109	[N]
M_x	-2.106	3.424	[Nm]
M_y	-1.944	15.599	[Nm]
M_z	-0.869	0.525	[Nm]
Predicted Force	$F_{x,D,max}$	71.079	[N]
Initial time	t_0	7.183	[s]
Time to peak	τ_{max}	0.914	[s]
Total impulse	I_{tot}	1034.083	[Ns]
Peak Impulse	I_{peak}	46.038	[Ns]
Relative impulse	I^*	0.043	[-]
Wave height at $F_{x,max}$	h_M	0.699	[-]
Resistance coefficient	C_R	1.342	[-]

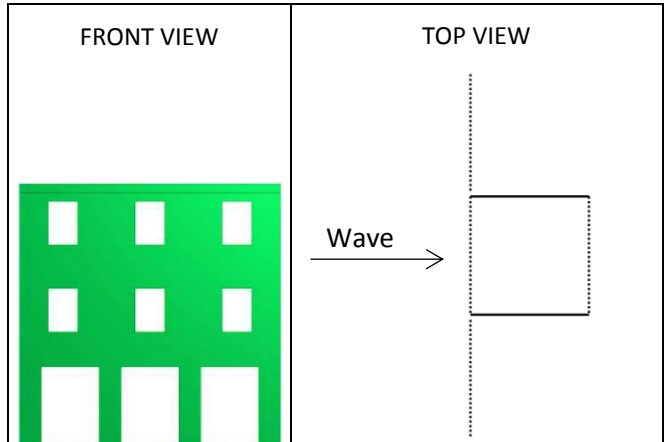


* All parameters are presented and defined at the beginning of the Appendix



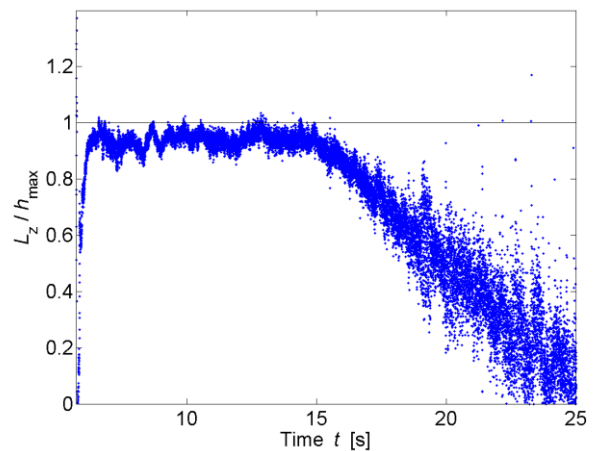
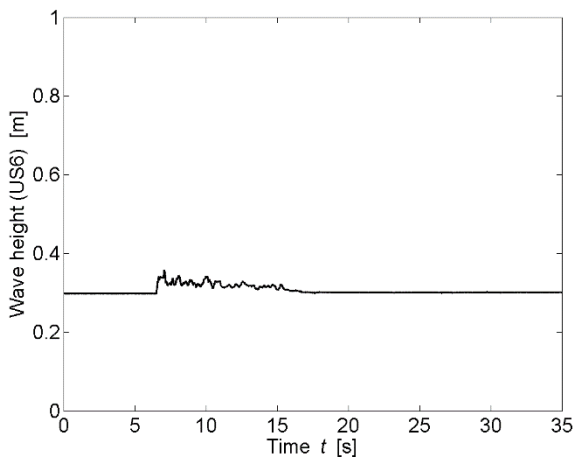
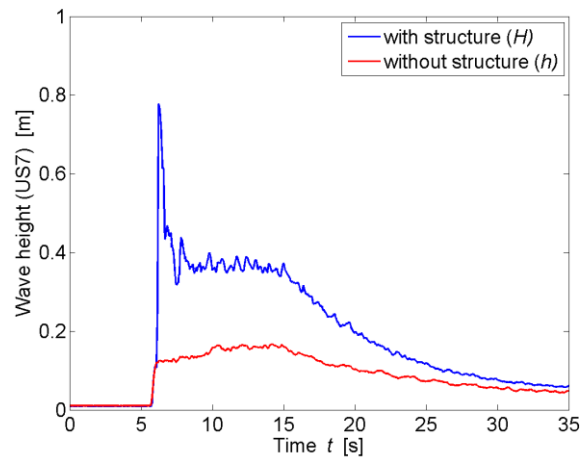
TEST PARAMETERS

Name	B31.34_S_WW1_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	43.67	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.738	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.781	[m]

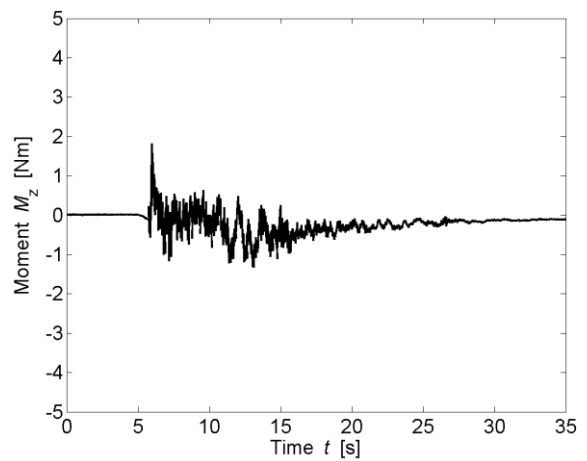
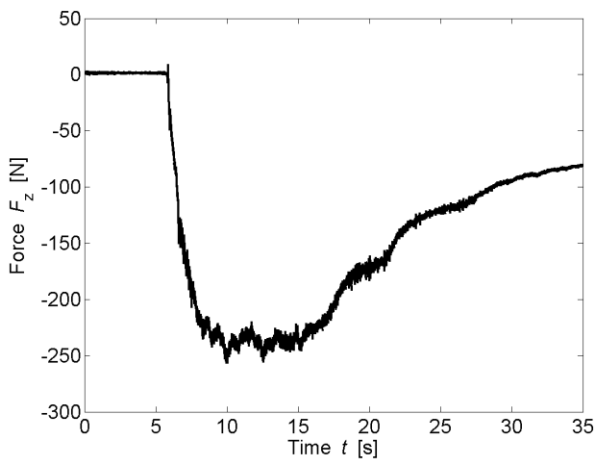
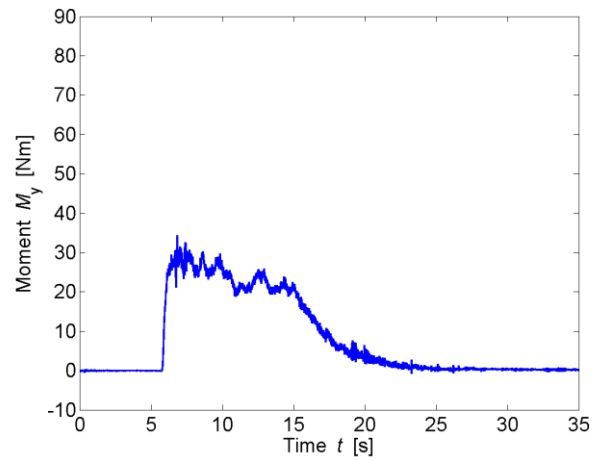
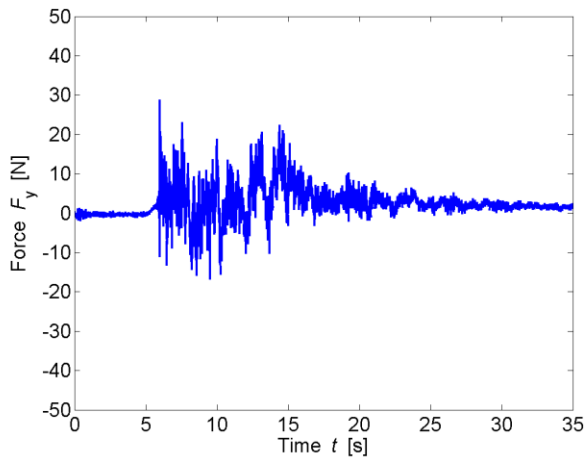
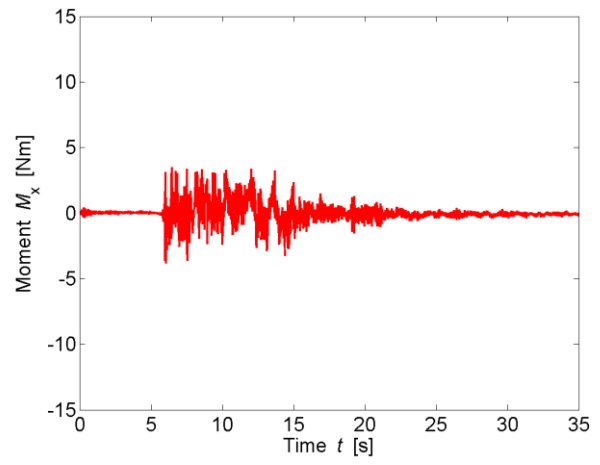
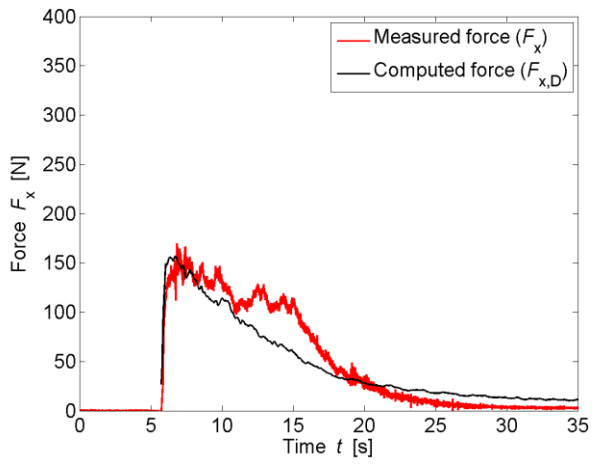


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.883	169.497	[N]
F_y	-16.808	28.881	[N]
F_z	-256.973	9.074	[N]
M_x	-3.836	3.484	[Nm]
M_y	-0.897	34.413	[Nm]
M_z	-1.332	1.813	[Nm]
Predicted Force	$F_{x,D,max}$	157.390	[N]
Initial time	t_0	5.794	[s]
Time to peak	τ_{max}	1.040	[s]
Total impulse	I_{tot}	1514.795	[Ns]
Peak Impulse	I_{peak}	120.771	[Ns]
Relative impulse	I^*	0.083	[-]
Wave height at $F_{x,max}$	h_M	0.751	[-]
Resistance coefficient	C_R	1.219	[-]

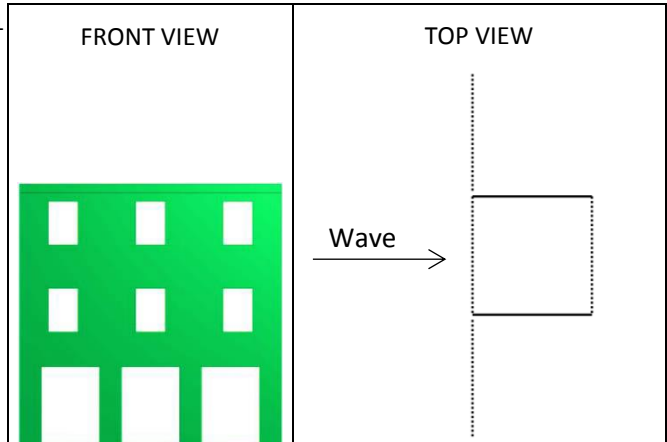


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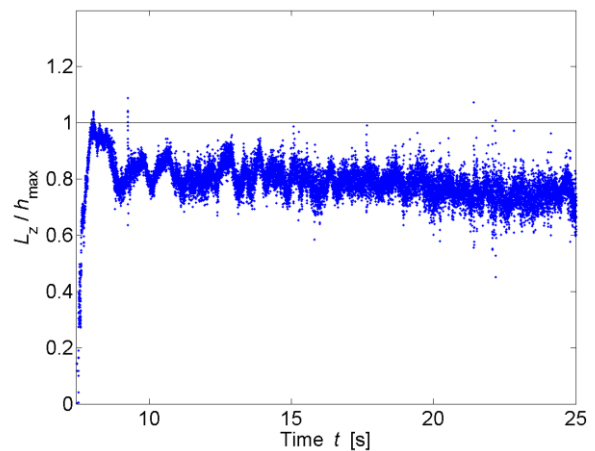
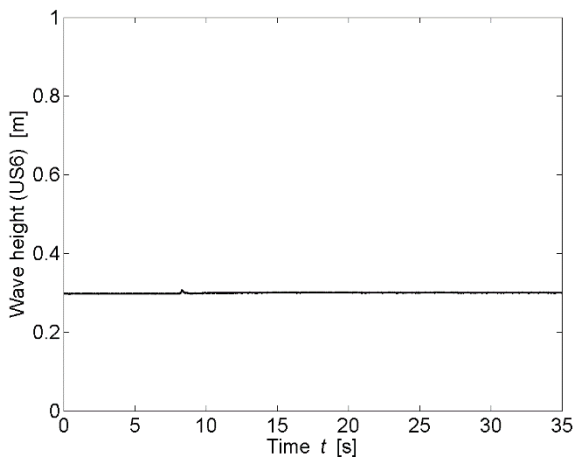
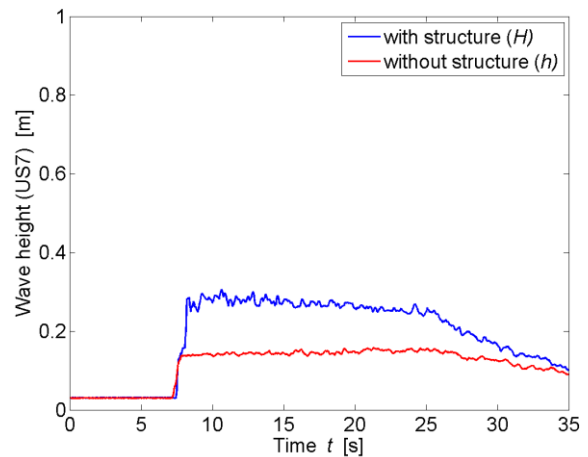
TEST PARAMETERS

Name	B31.34_S_WW3_1P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	44.28	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.970	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.306	[m]

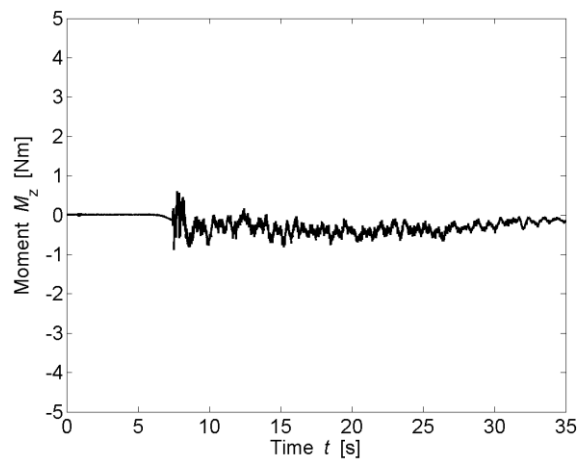
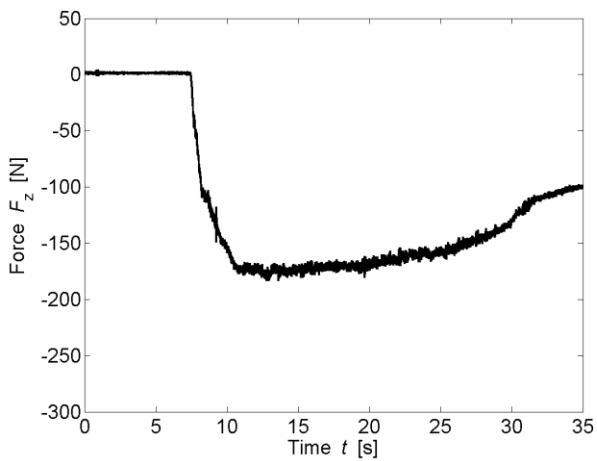
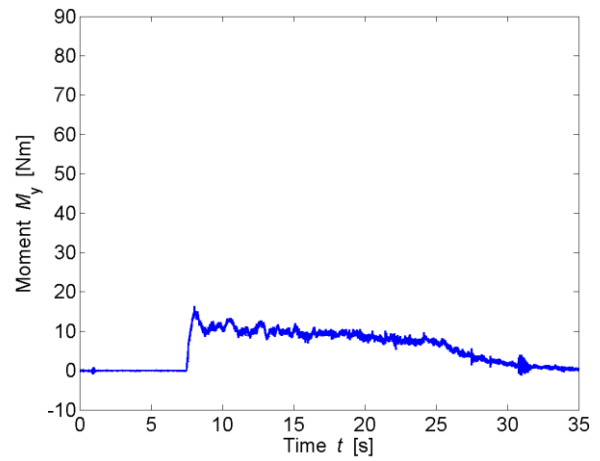
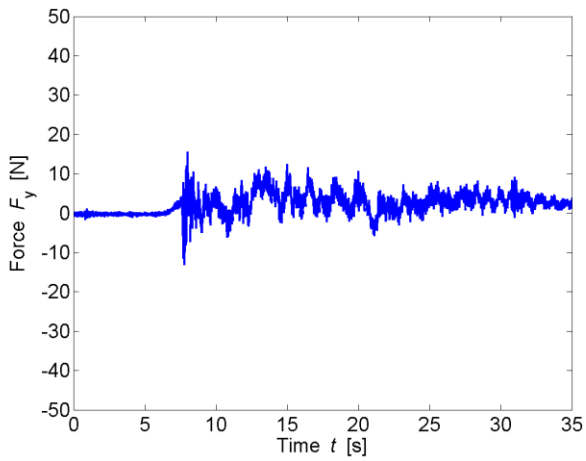
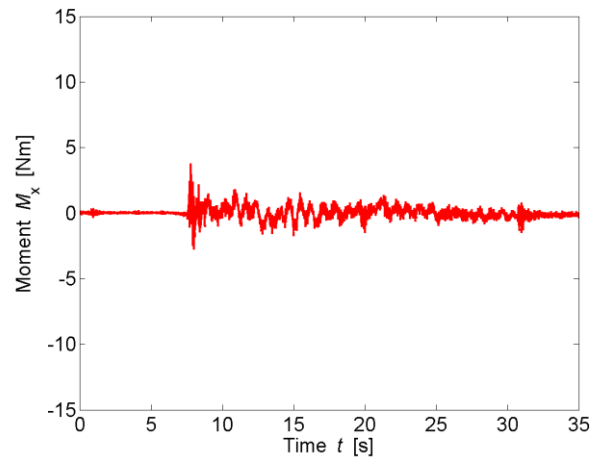
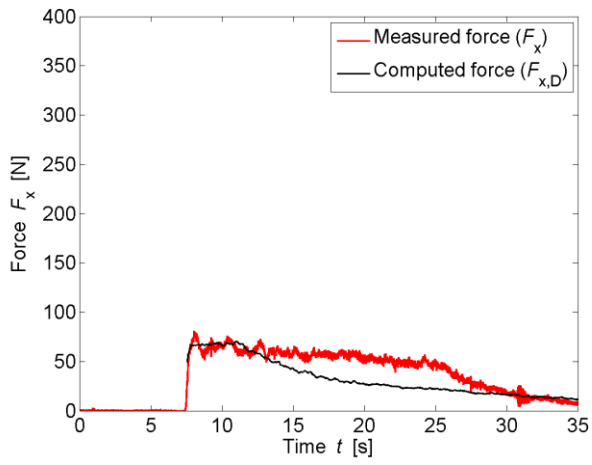


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.617	80.851	[N]
F_y	-13.113	15.642	[N]
F_z	-183.409	0.000	[N]
M_x	-2.752	3.781	[Nm]
M_y	-1.169	16.368	[Nm]
M_z	-0.884	0.604	[Nm]
Predicted Force	$F_{x,D,max}$	70.564	[N]
Initial time	t_0	7.502	[s]
Time to peak	τ_{max}	0.545	[s]
Total impulse	I_{tot}	1098.055	[Ns]
Peak Impulse	I_{peak}	30.461	[Ns]
Relative impulse	I^*	0.027	[-]
Wave height at $F_{x,max}$	h_M	0.870	[-]
Resistance coefficient	C_R	1.499	[-]

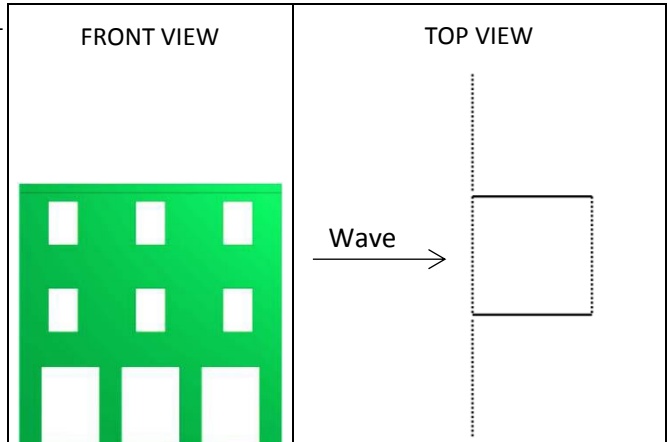


* All parameters are presented and defined at the beginning of the Appendix



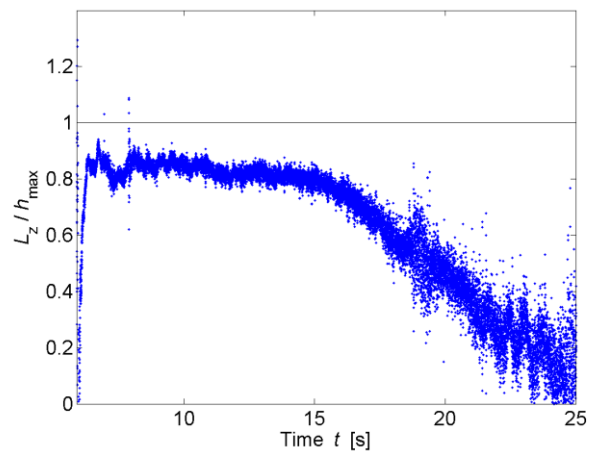
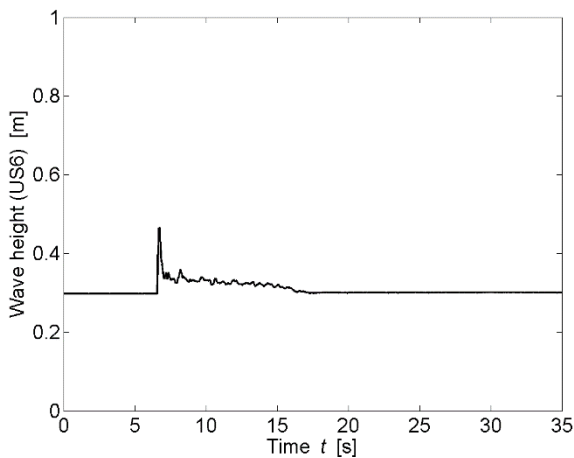
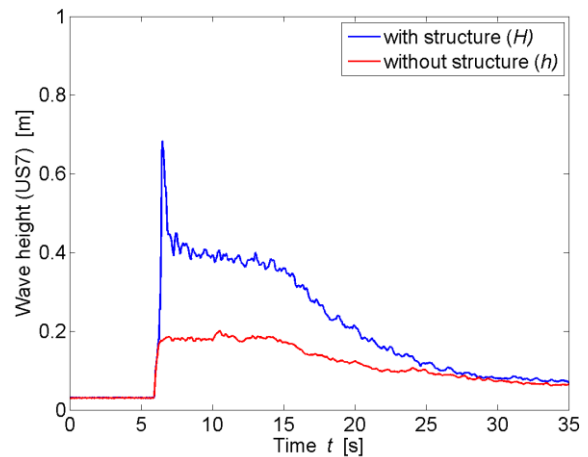
TEST PARAMETERS

Name	B31.34_S_WW3_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	31.34	[%]
Porosity at h_{max}	$P_{h,max}$	39.07	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.482	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.683	[m]

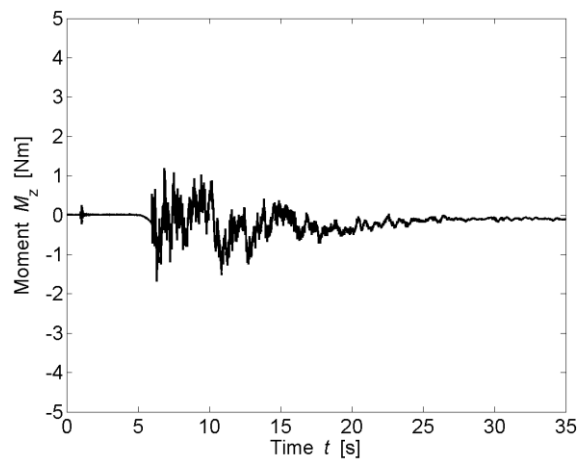
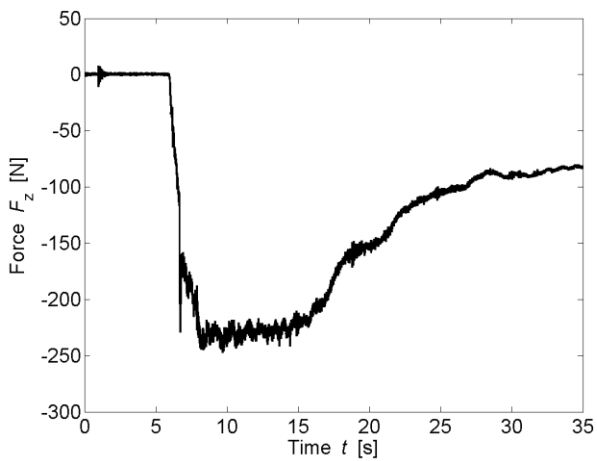
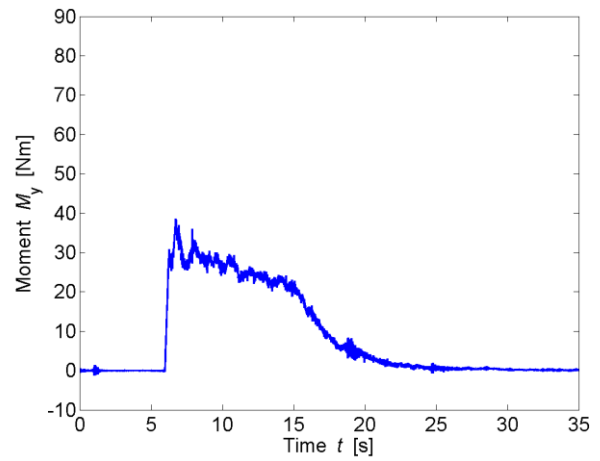
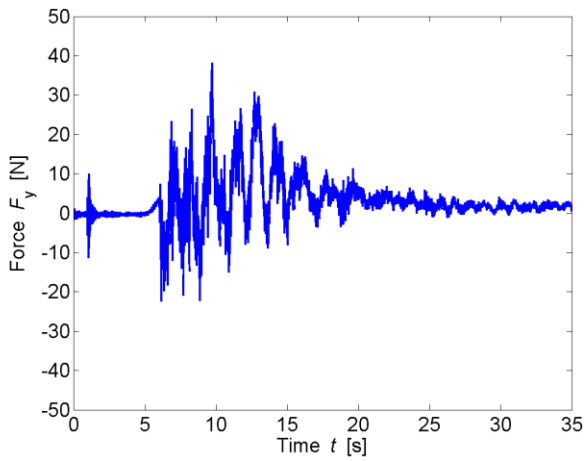
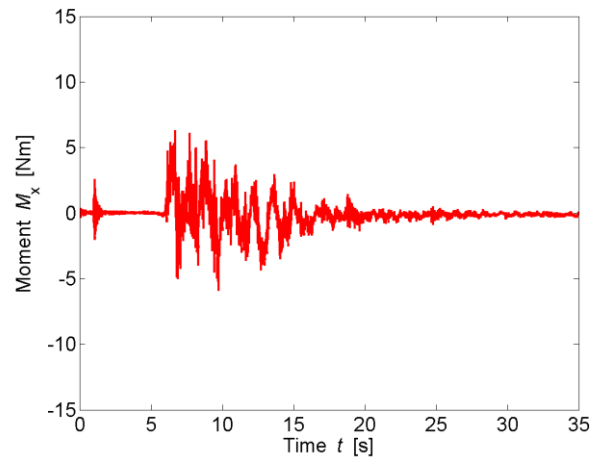
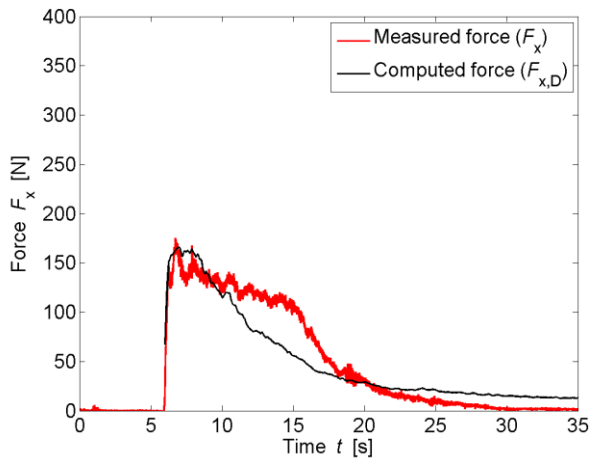


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.206	185.304	[N]
F_y	-22.461	38.181	[N]
F_z	-247.414	0.546	[N]
M_x	-5.890	6.319	[Nm]
M_y	-1.240	38.550	[Nm]
M_z	-1.681	1.191	[Nm]
Predicted Force	$F_{x,D,max}$	182.142	[N]
Initial time	t_0	5.940	[s]
Time to peak	τ_{max}	0.806	[s]
Total impulse	I_{tot}	1540.217	[Ns]
Peak Impulse	I_{peak}	93.858	[Ns]
Relative impulse	I^*	0.063	[-]
Wave height at $F_{x,max}$	h_M	0.910	[-]
Resistance coefficient	C_R	1.450	[-]

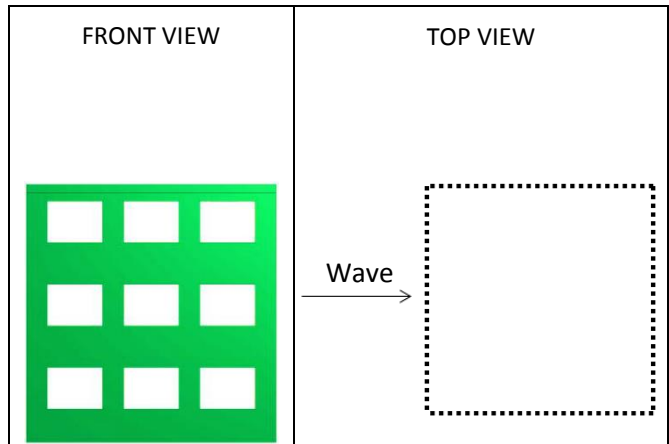


* All parameters are presented and defined at the beginning of the Appendix



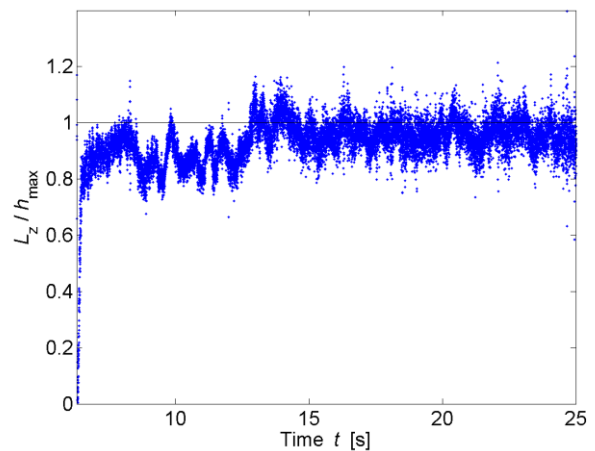
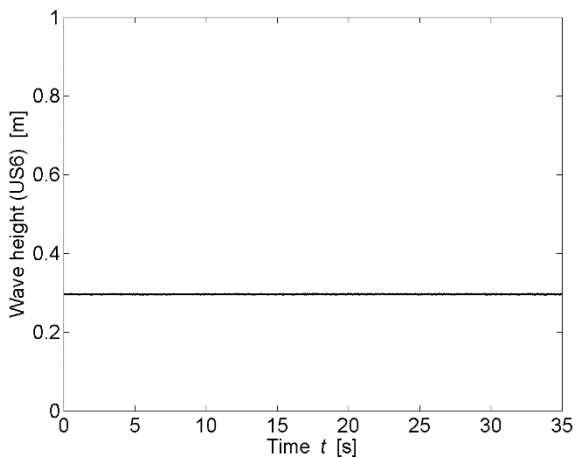
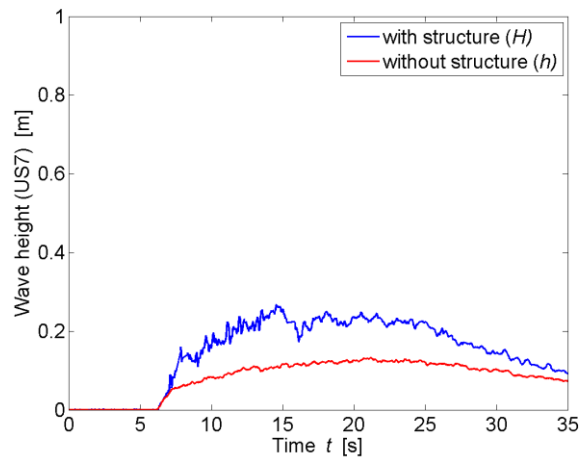
TEST PARAMETERS

Name	B34_0_WD1_2		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	26.62	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.350	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.267	[m]

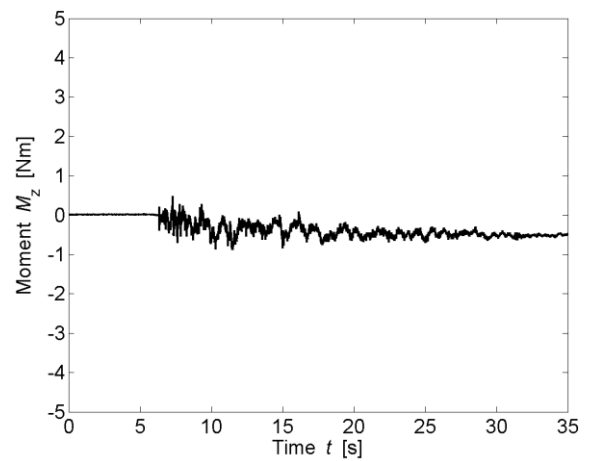
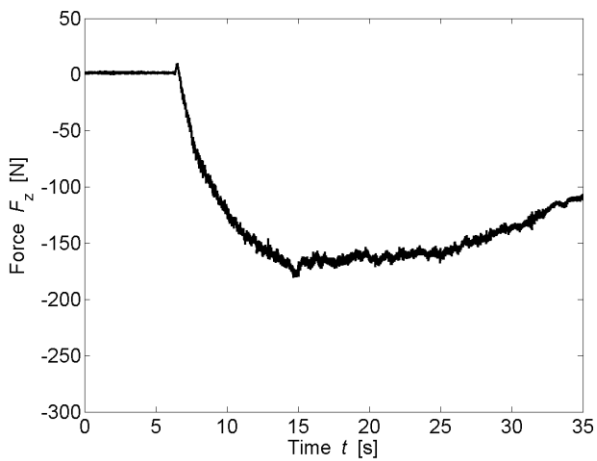
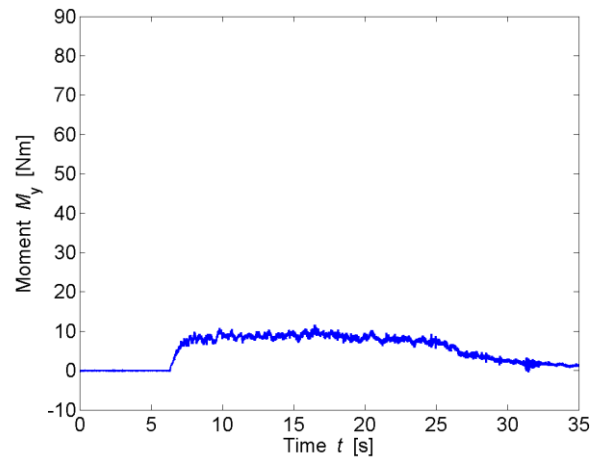
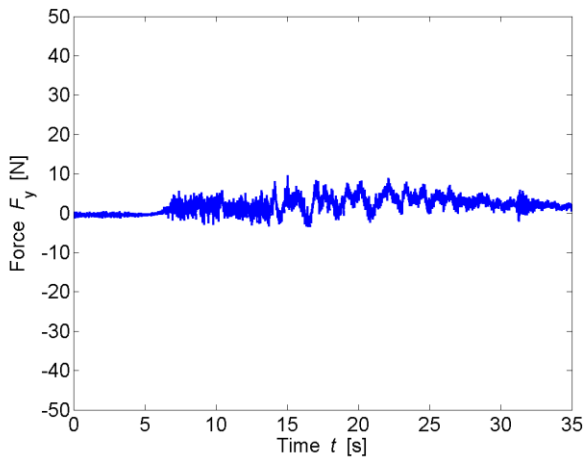
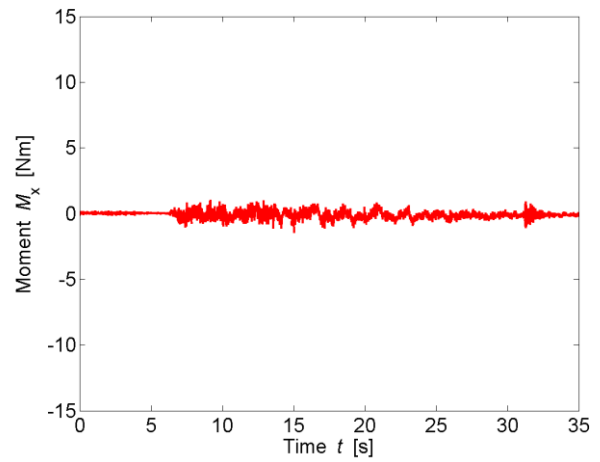
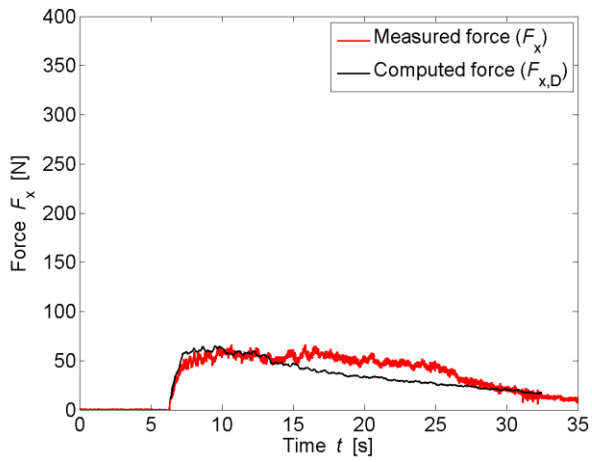


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.044	66.465	[N]
F_y	-3.520	9.671	[N]
F_z	-180.598	10.011	[N]
M_x	-1.449	1.060	[Nm]
M_y	-0.450	11.562	[Nm]
M_z	-0.879	0.478	[Nm]
Predicted Force	$F_{x,D,max}$	64.812	[N]
Initial time	t_0	6.355	[s]
Time to peak	τ_{max}	9.500	[s]
Total impulse	I_{tot}	1009.659	[Ns]
Peak Impulse	I_{peak}	488.382	[Ns]
Relative impulse	I^*	0.470	[-]
Wave height at $F_{x,max}$	h_M	0.871	[-]
Resistance coefficient	C_R	2.203	[-]

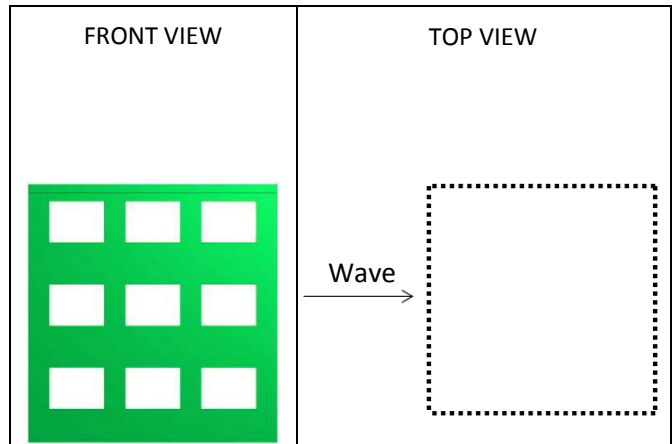


* All parameters are presented and defined at the beginning of the Appendix



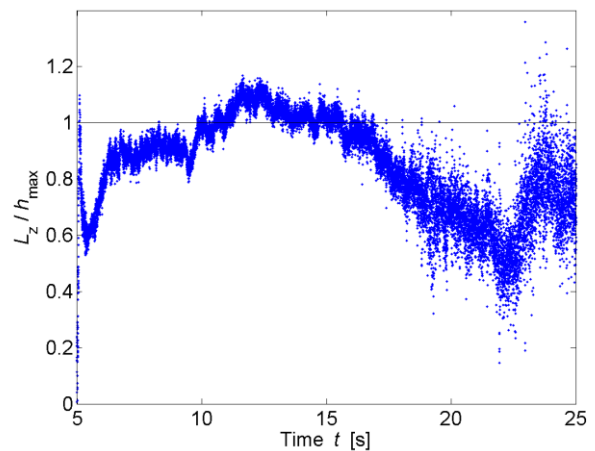
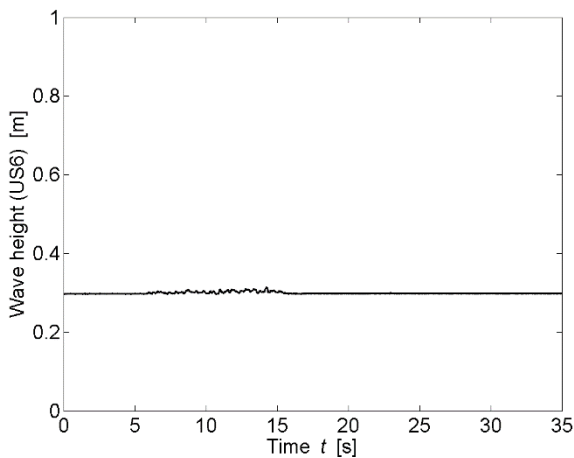
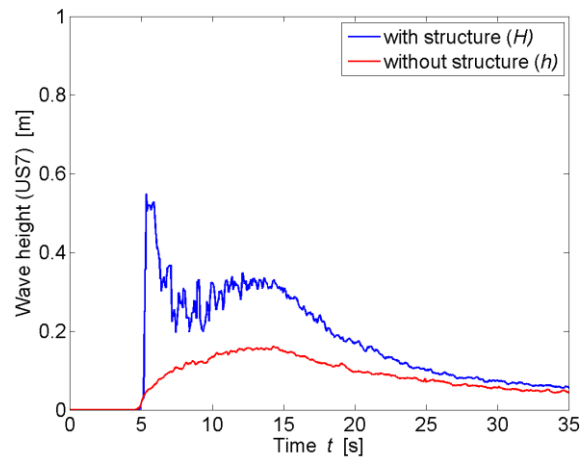
TEST PARAMETERS

Name	B34_0_WD2_1		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	33.36	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.058	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.464	[m]

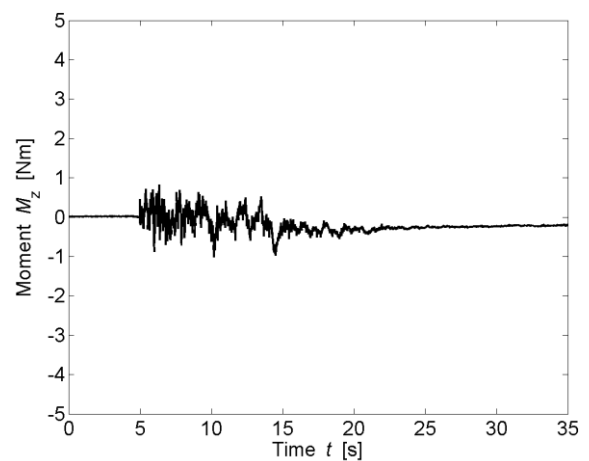
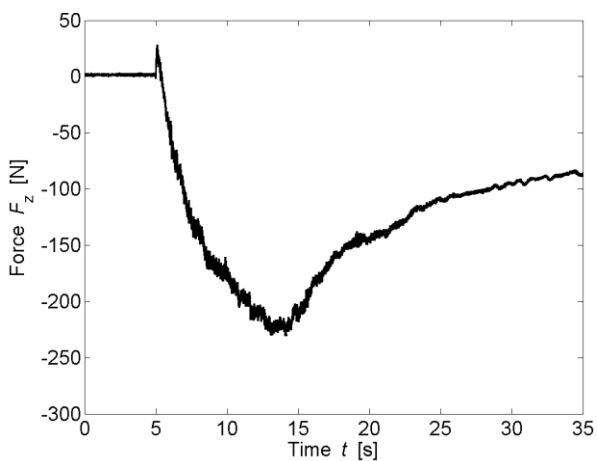
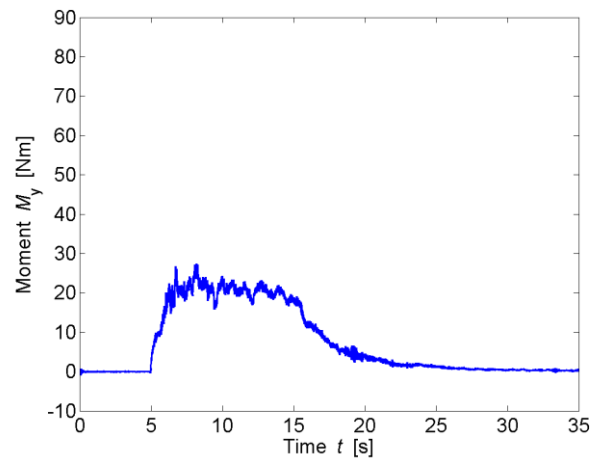
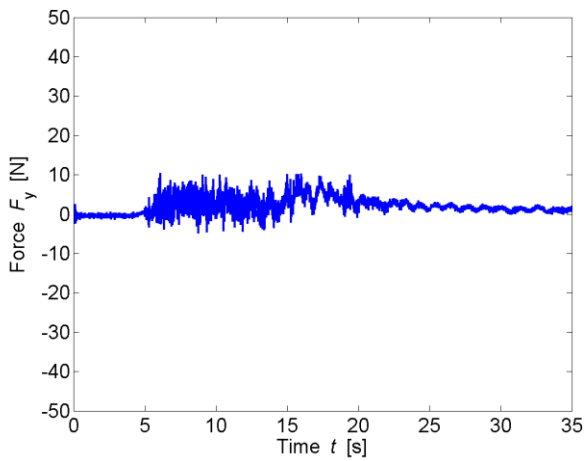
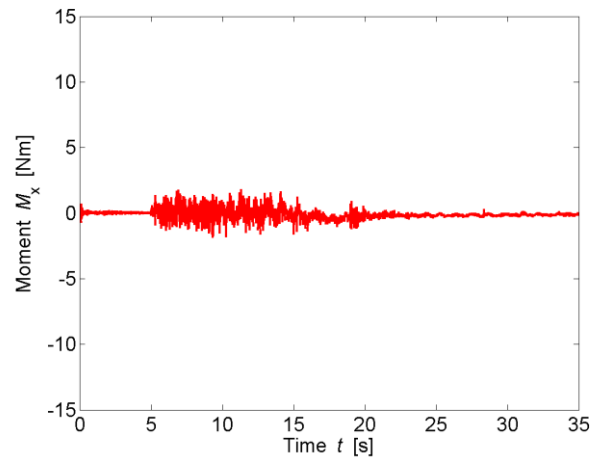
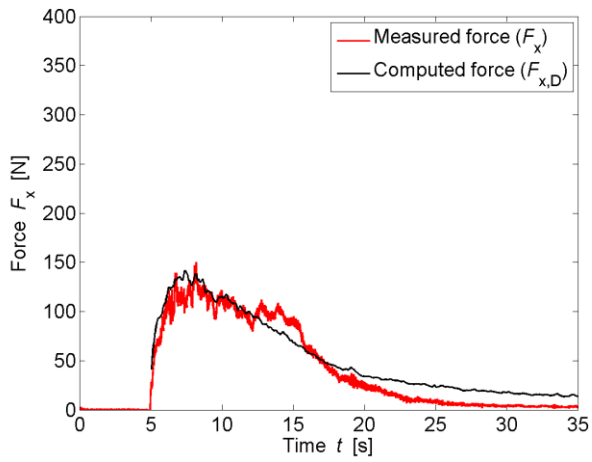


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.133	140.755	[N]
F_y	-5.820	11.604	[N]
F_z	-235.044	28.472	[N]
M_x	-1.725	2.188	[Nm]
M_y	-0.680	27.163	[Nm]
M_z	-1.098	0.913	[Nm]
Predicted Force	$F_{x,D,max}$	141.527	[N]
Initial time	t_0	4.979	[s]
Time to peak	τ_{max}	2.572	[s]
Total impulse	I_{tot}	1348.108	[Ns]
Peak Impulse	I_{peak}	246.057	[Ns]
Relative impulse	I^*	0.190	[-]
Wave height at $F_{x,max}$	h_M	0.670	[-]
Resistance coefficient	C_R	1.291	[-]

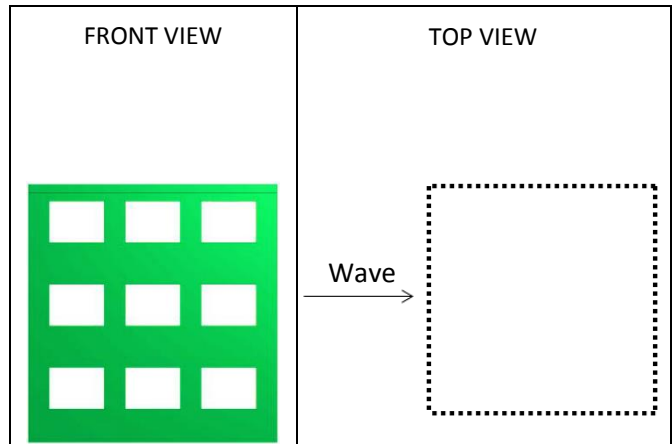


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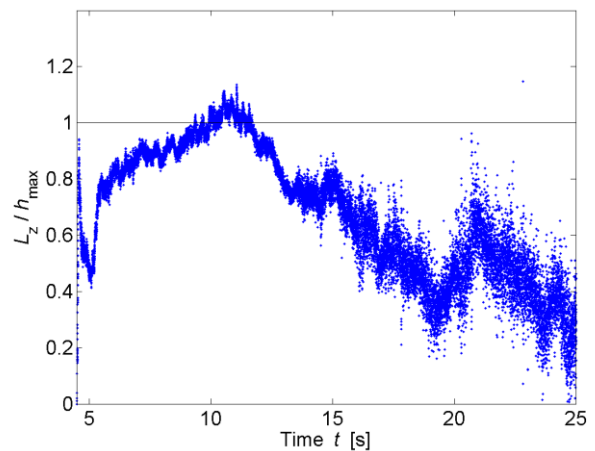
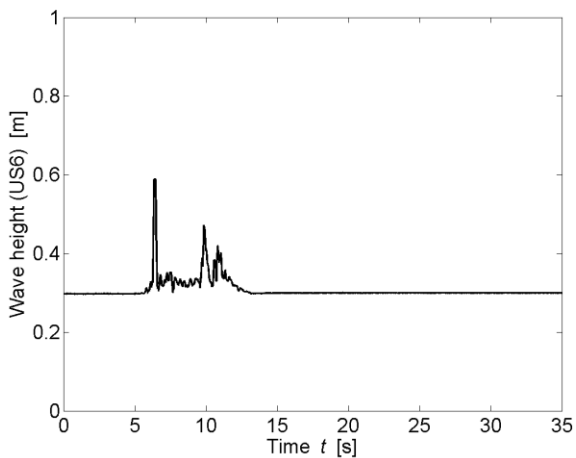
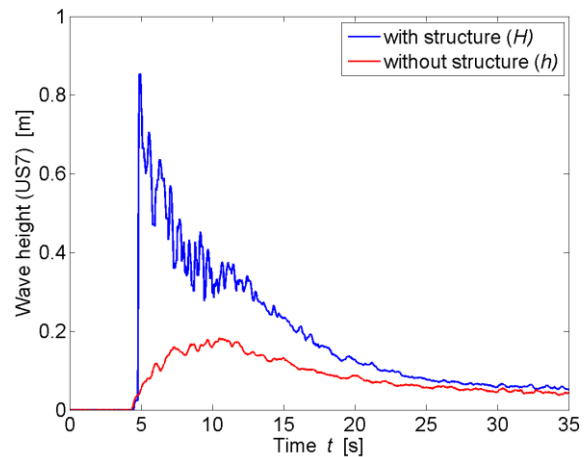
TEST PARAMETERS

Name	B34_0_WD3_2		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	37.62	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.569	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.854	[m]

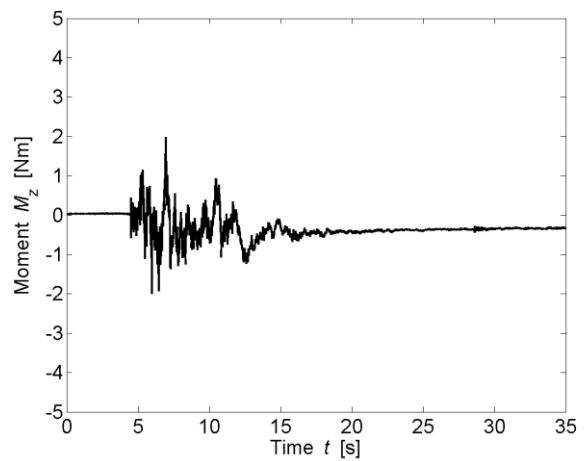
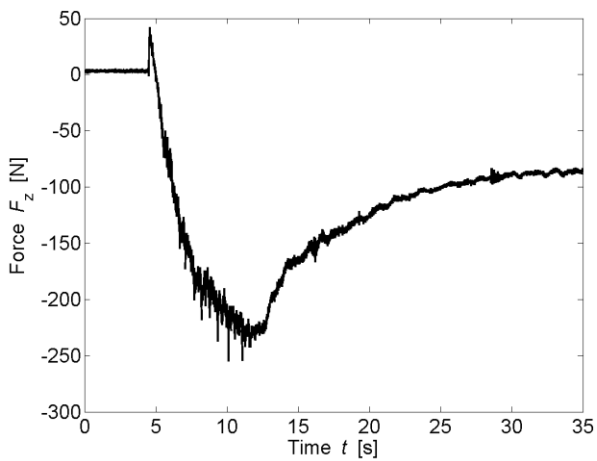
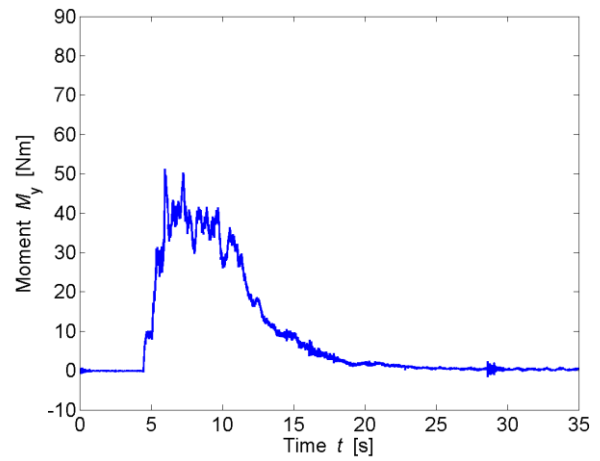
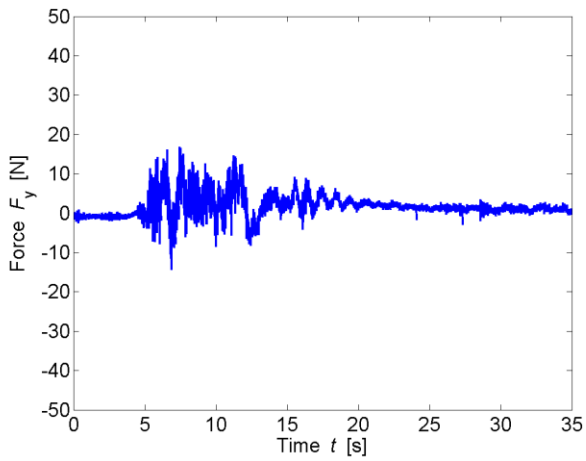
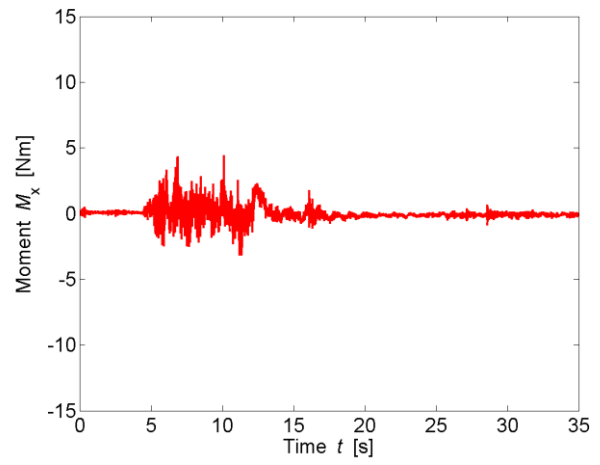
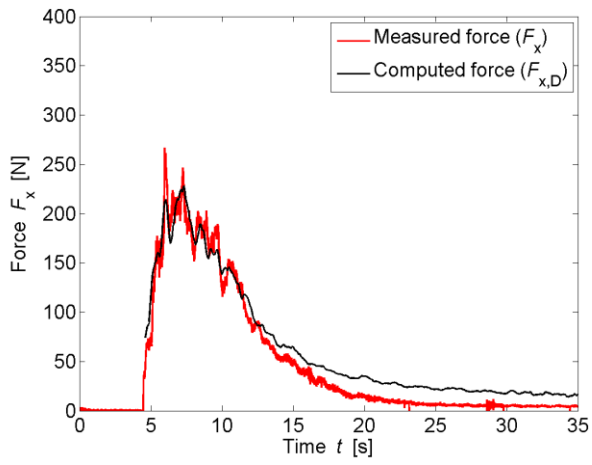


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.282	266.946	[N]
F_y	-14.430	16.796	[N]
F_z	-255.115	42.138	[N]
M_x	-3.154	4.445	[Nm]
M_y	-1.569	51.271	[Nm]
M_z	-1.995	1.978	[Nm]
Predicted Force	$F_{x,D,max}$	227.920	[N]
Initial time	t_0	4.537	[s]
Time to peak	τ_{max}	1.443	[s]
Total impulse	I_{tot}	1607.333	[Ns]
Peak Impulse	I_{peak}	170.064	[Ns]
Relative impulse	I^*	0.113	[-]
Wave height at $F_{x,max}$	h_M	0.635	[-]
Resistance coefficient	C_R	1.267	[-]

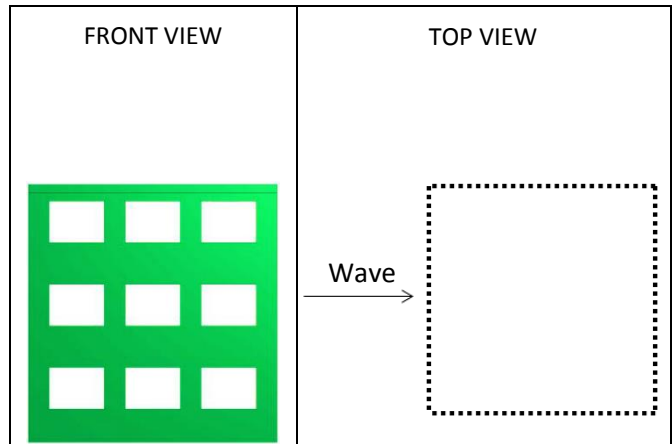


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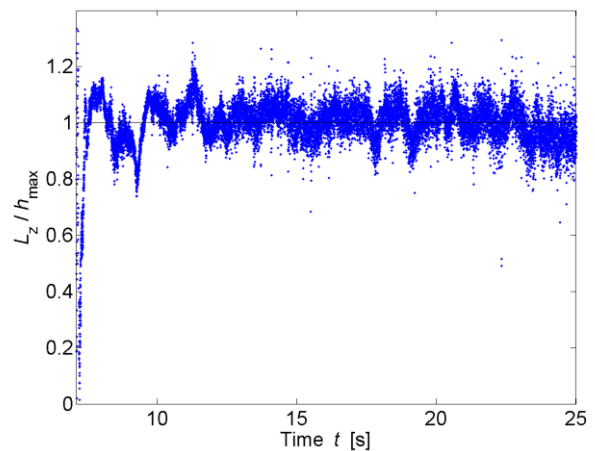
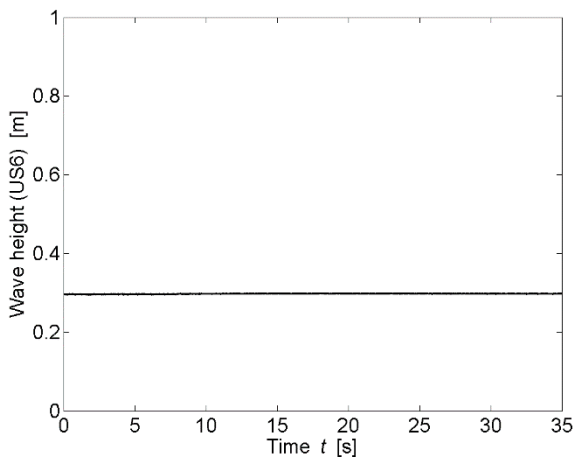
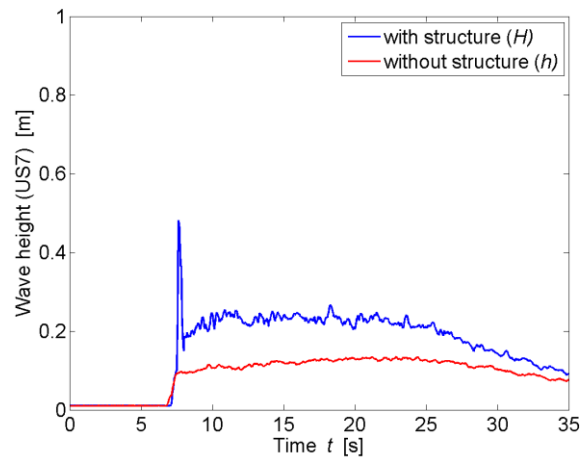
TEST PARAMETERS

Name		B34_0_WW1_1P_1	
Repetitions		1	
Configuration		All Porous (0)	
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	27.08	[%]
Building height	H_B	0.3	[m]
Wave type		Bore (WW1_1P)	
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.087	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.481	[m]

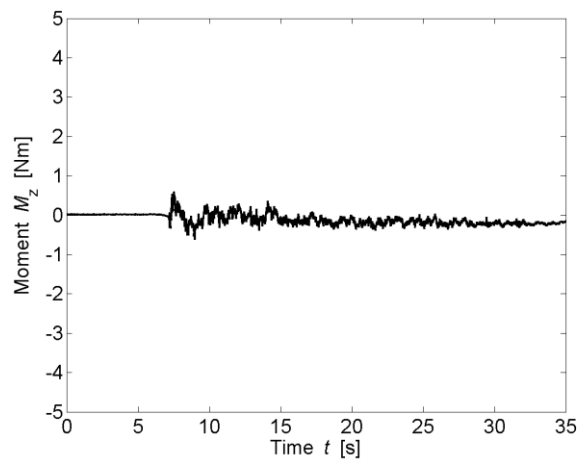
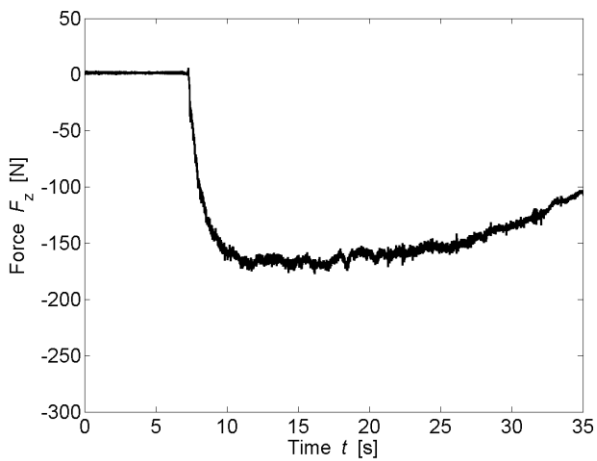
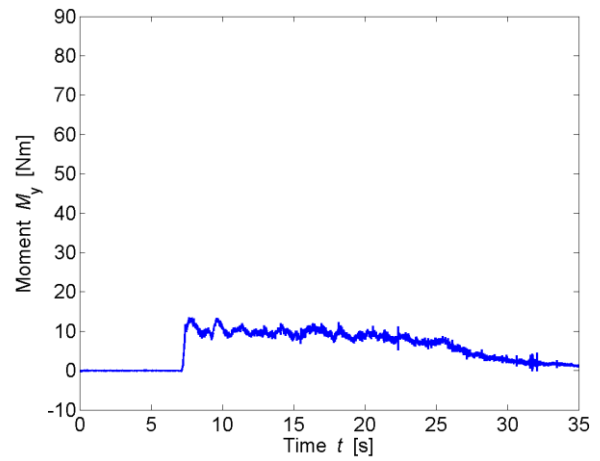
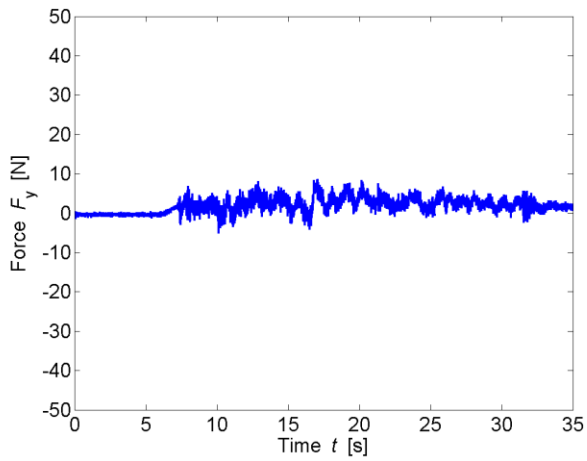
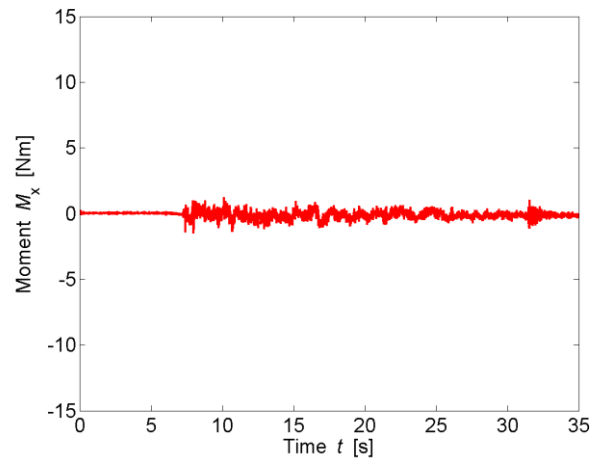
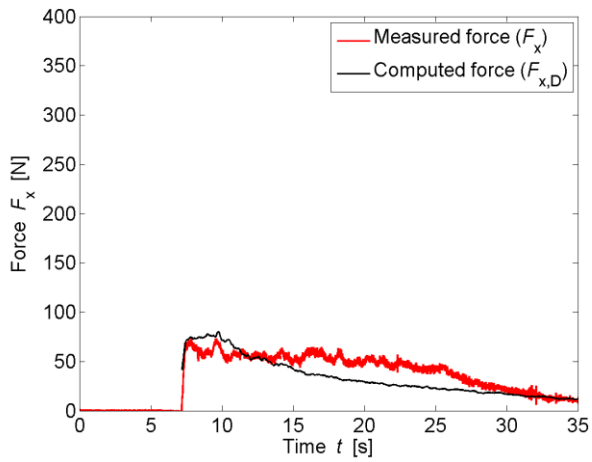


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.649	73.378	[N]
F_y	-5.135	8.618	[N]
F_z	-177.131	5.701	[N]
M_x	-1.499	1.266	[Nm]
M_y	-0.389	13.496	[Nm]
M_z	-0.616	0.599	[Nm]
Predicted Force	$F_{x,D,max}$	80.188	[N]
Initial time	t_0	7.157	[s]
Time to peak	τ_{max}	0.705	[s]
Total impulse	I_{tot}	1038.217	[Ns]
Peak Impulse	I_{peak}	37.742	[Ns]
Relative impulse	I^*	0.035	[-]
Wave height at $F_{x,max}$	h_M	0.712	[-]
Resistance coefficient	C_R	1.338	[-]

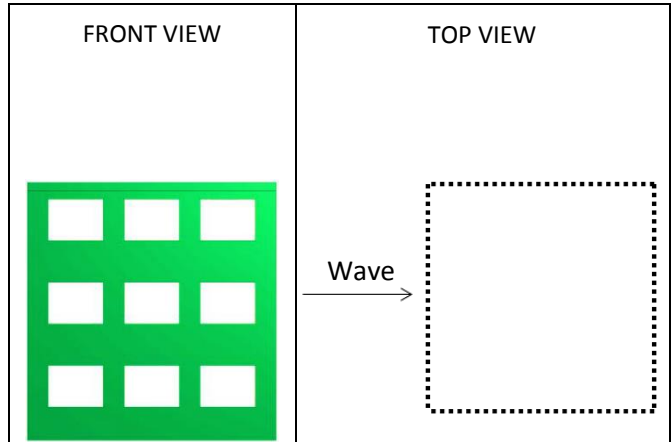


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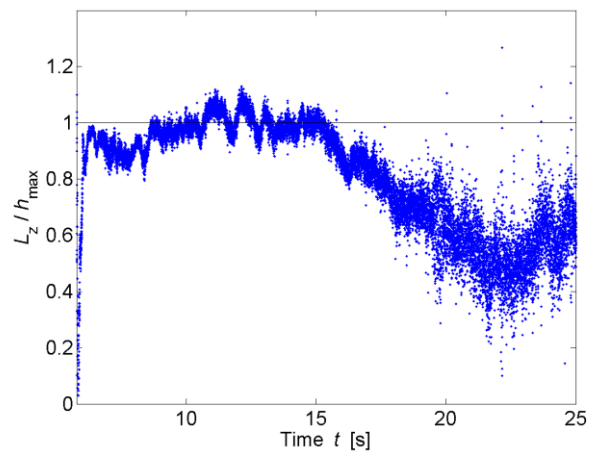
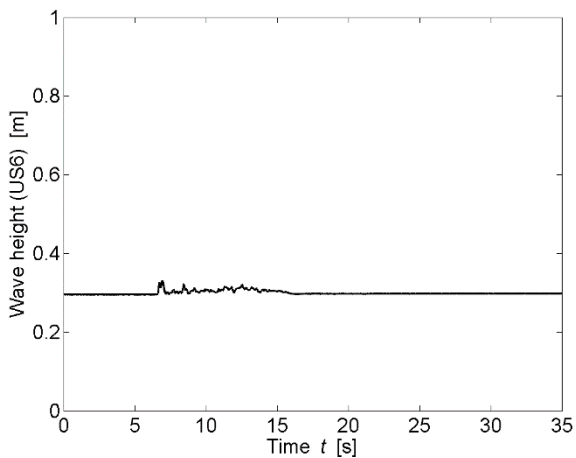
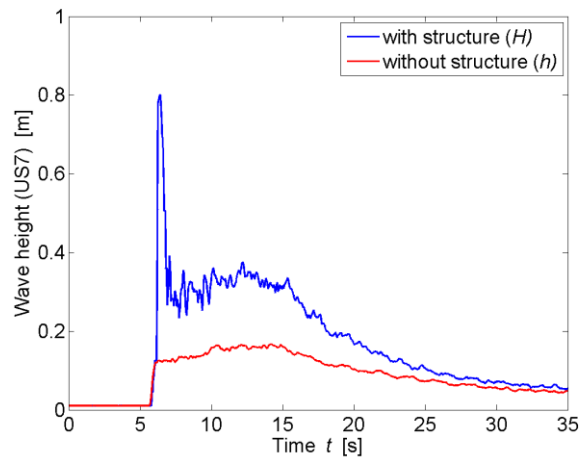
TEST PARAMETERS

Name	B34_0_WW1_2P_2		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	34.76	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.674	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.802	[m]

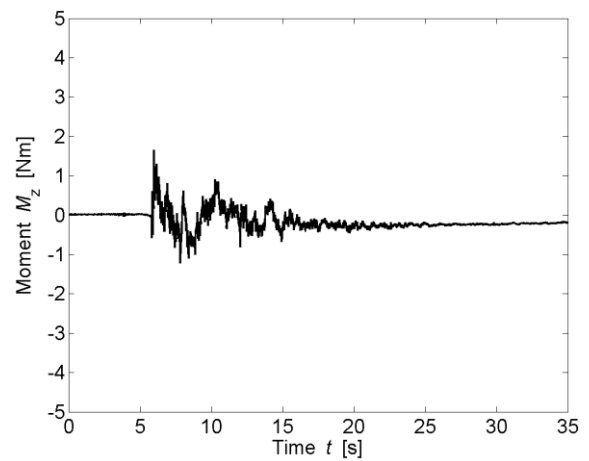
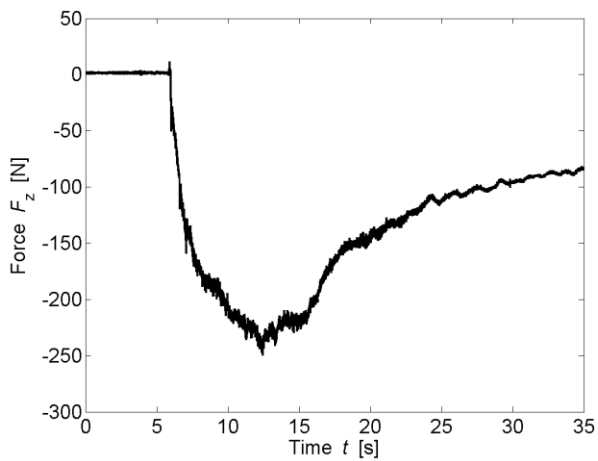
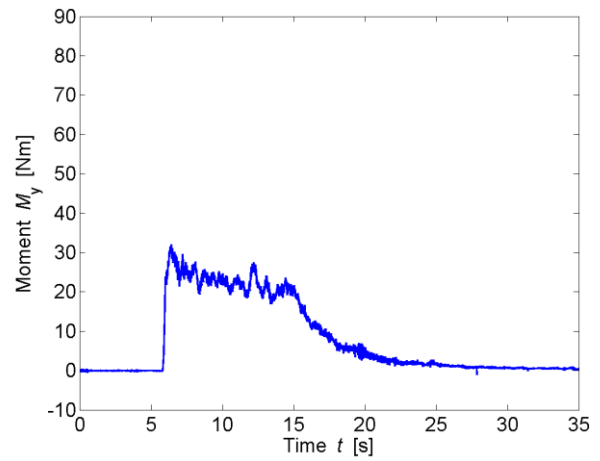
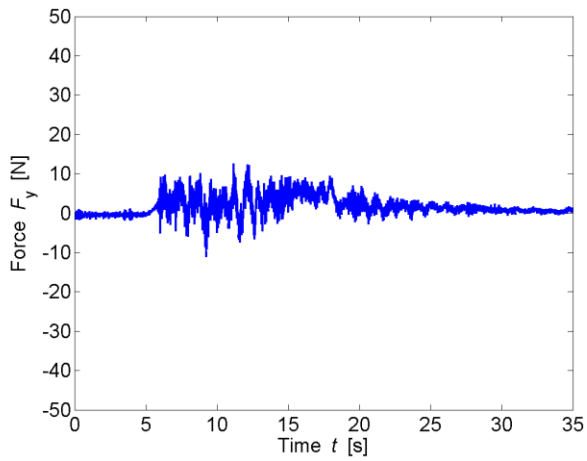
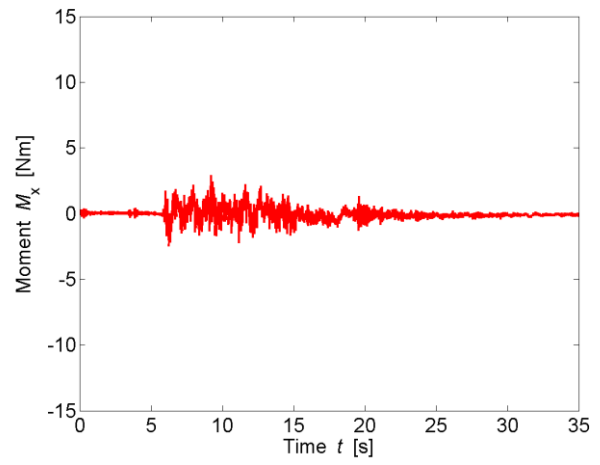
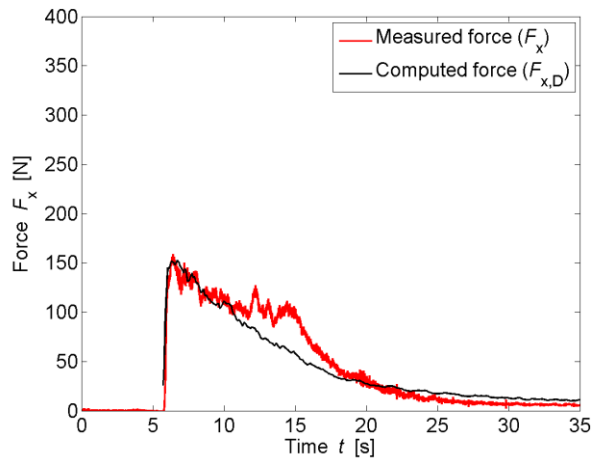


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.673	158.610	[N]
F_y	-11.082	12.656	[N]
F_z	-249.570	11.792	[N]
M_x	-2.466	2.918	[Nm]
M_y	-1.101	32.012	[Nm]
M_z	-1.216	1.651	[Nm]
Predicted Force	$F_{x,D,max}$	152.558	[N]
Initial time	t_0	5.826	[s]
Time to peak	τ_{max}	0.599	[s]
Total impulse	I_{tot}	1443.617	[Ns]
Peak Impulse	I_{peak}	67.701	[Ns]
Relative impulse	I^*	0.050	[-]
Wave height at $F_{x,max}$	h_M	0.740	[-]
Resistance coefficient	C_R	1.329	[-]

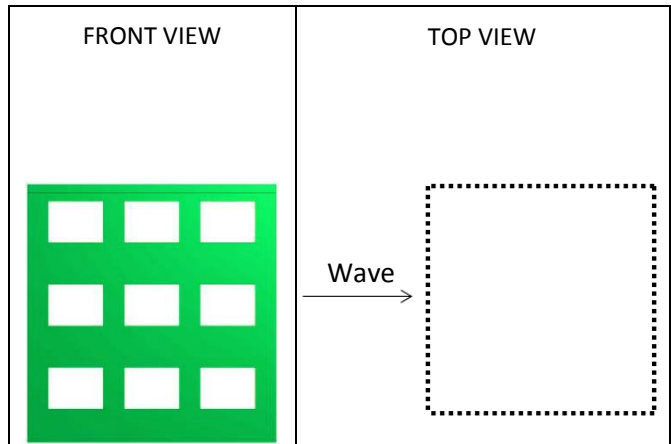


* All parameters are presented and defined at the beginning of the Appendix



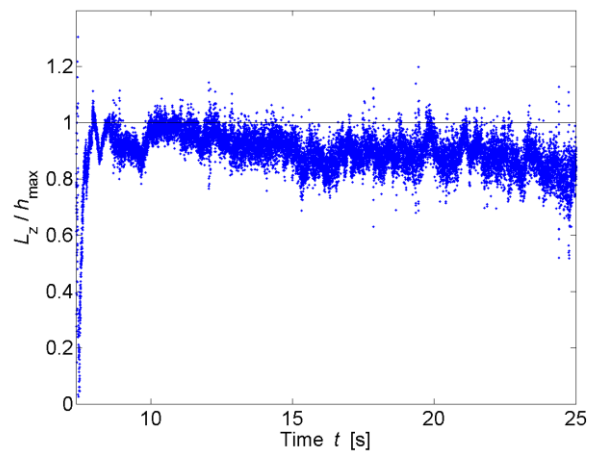
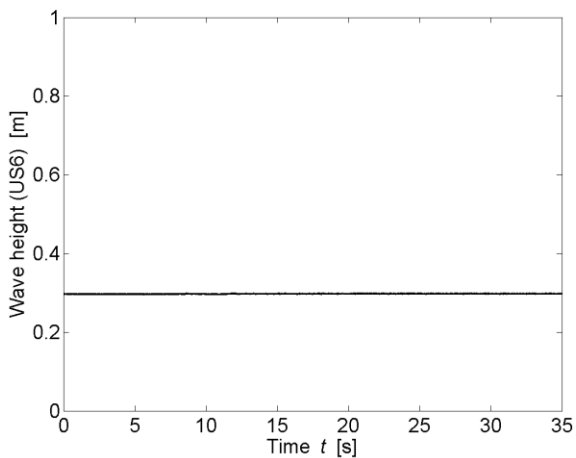
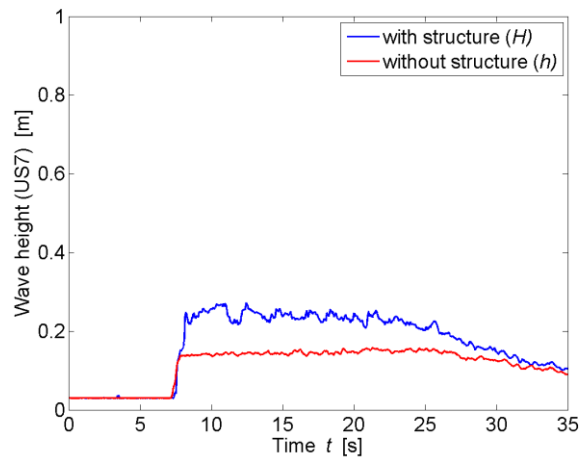
TEST PARAMETERS

Name	B34_0_WW3_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	32.66	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.958	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.271	[m]

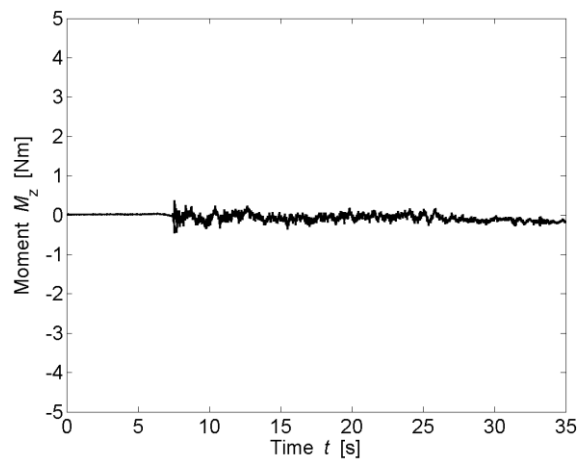
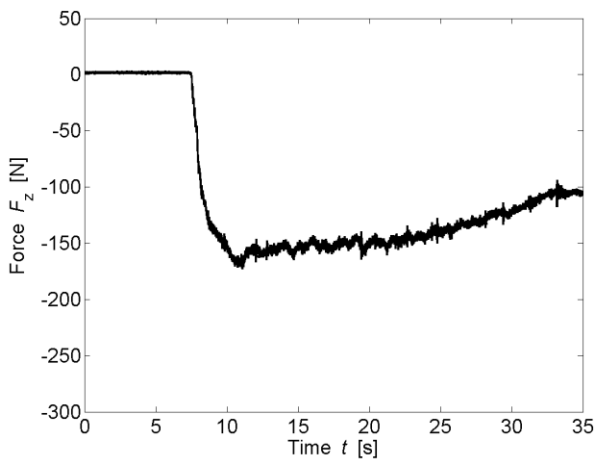
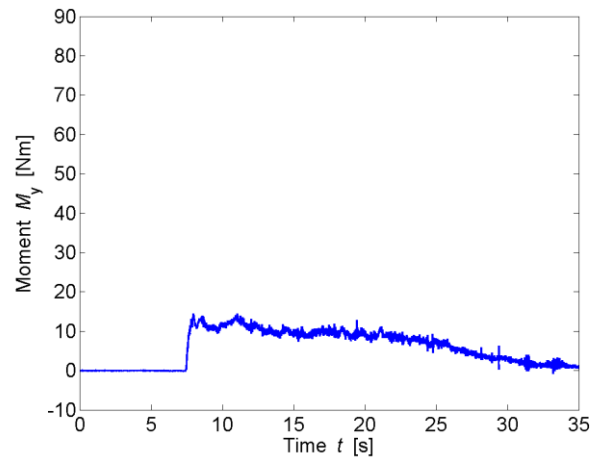
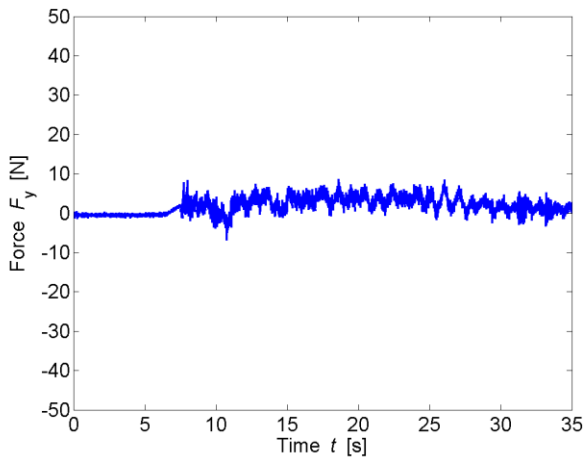
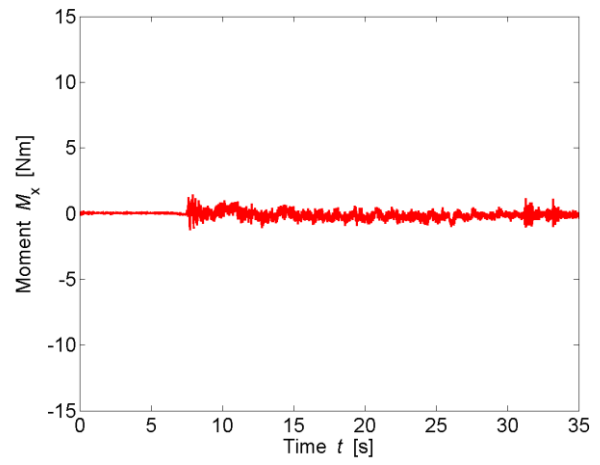
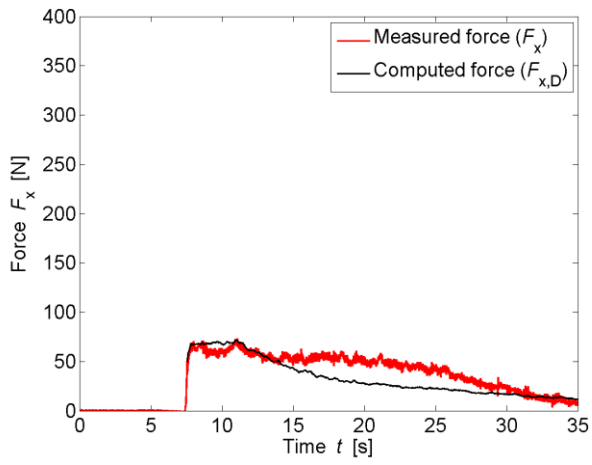


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.673	73.206	[N]
F_y	-6.946	8.667	[N]
F_z	-172.726	2.046	[N]
M_x	-1.236	1.446	[Nm]
M_y	-0.745	14.472	[Nm]
M_z	-0.461	0.369	[Nm]
Predicted Force	$F_{x,D,max}$	71.365	[N]
Initial time	t_0	7.424	[s]
Time to peak	τ_{max}	3.672	[s]
Total impulse	I_{tot}	1062.024	[Ns]
Peak Impulse	I_{peak}	220.873	[Ns]
Relative impulse	I^*	0.208	[-]
Wave height at $F_{x,max}$	h_M	0.913	[-]
Resistance coefficient	C_R	1.308	[-]

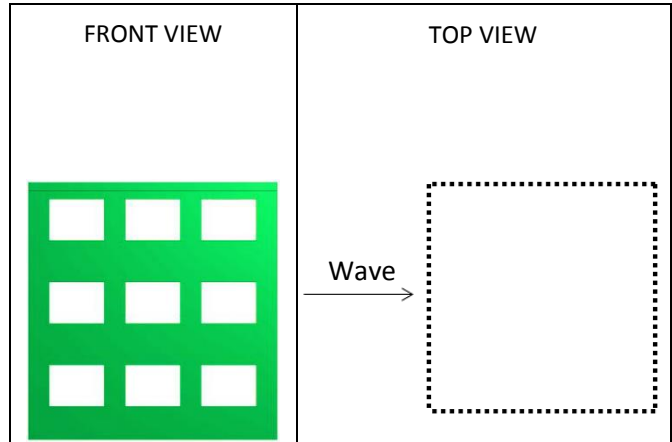


* All parameters are presented and defined at the beginning of the Appendix



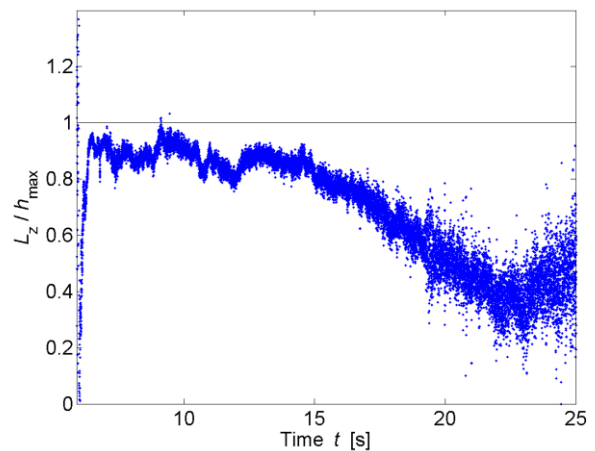
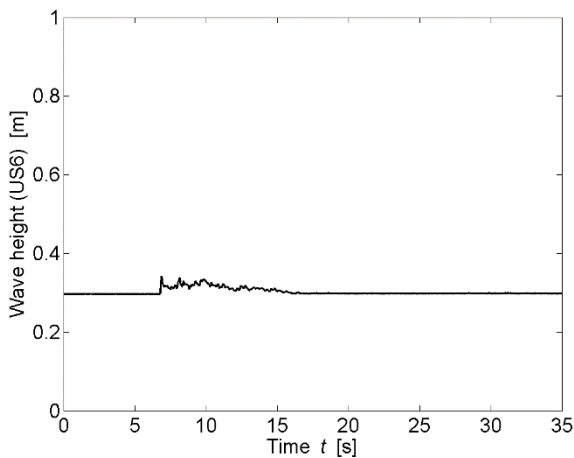
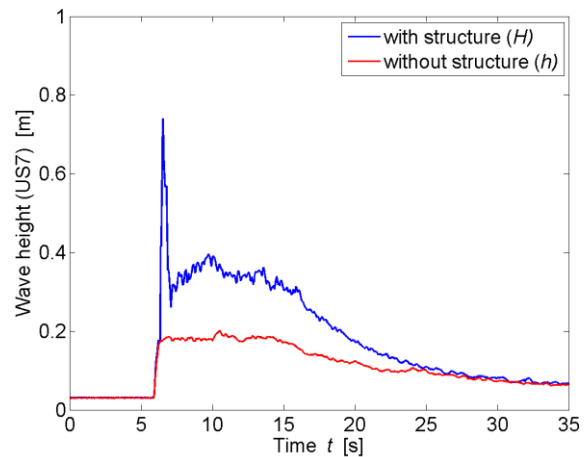
TEST PARAMETERS

Name	B34_0_WW3_2P_2		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	34.49	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.520	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.740	[m]

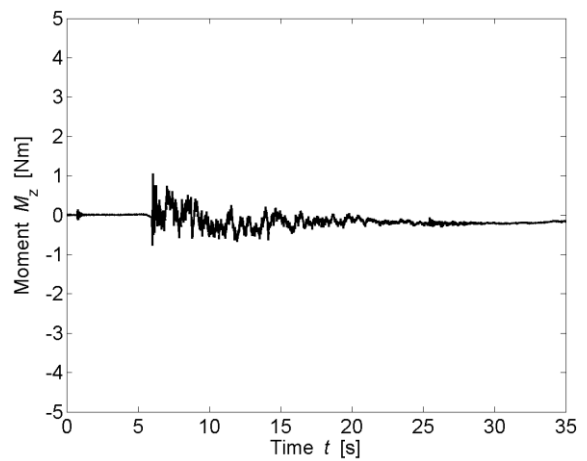
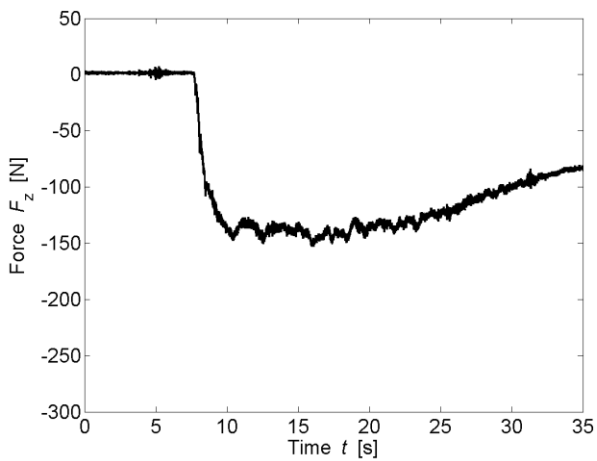
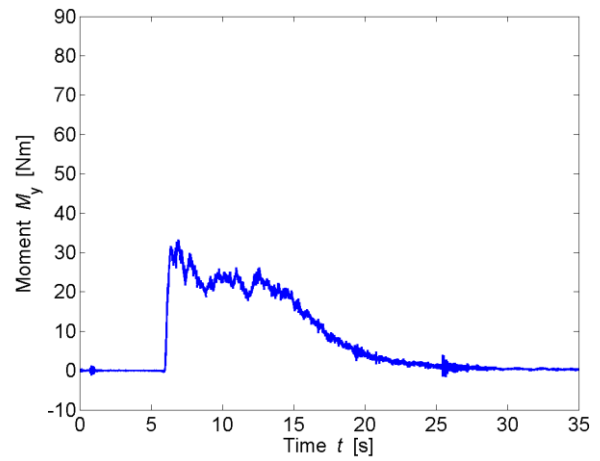
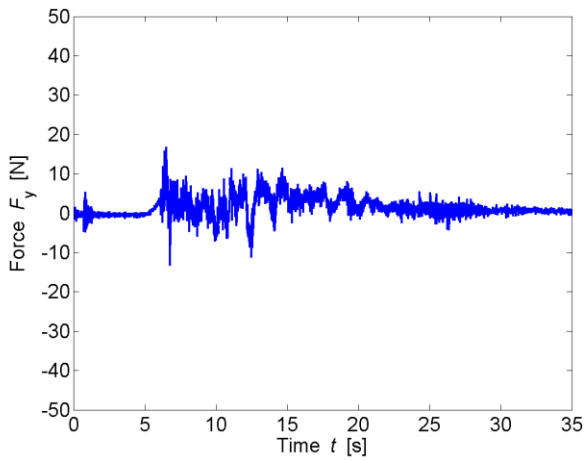
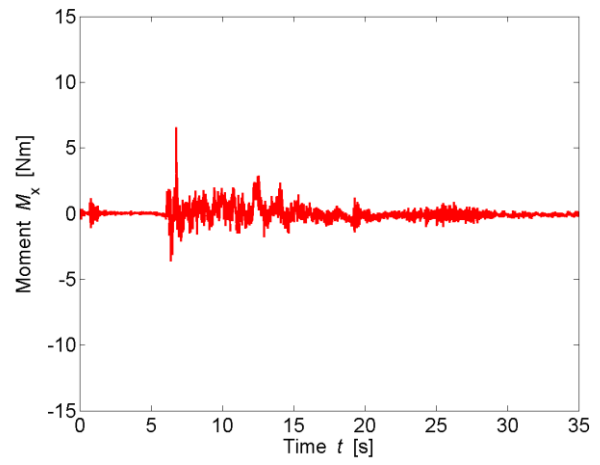
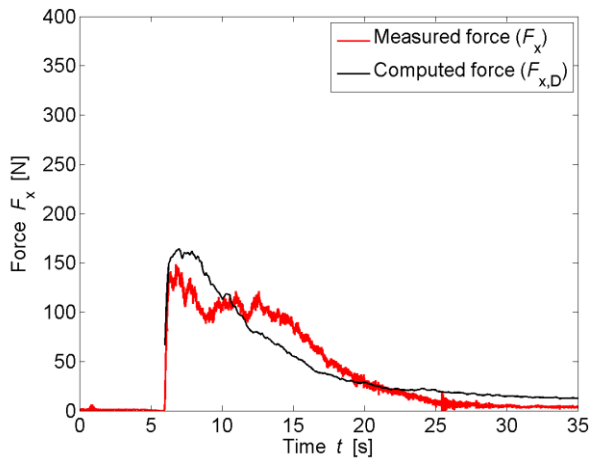


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.657	148.425	[N]
F_y	-13.309	16.841	[N]
F_z	-252.193	0.000	[N]
M_x	-3.607	6.548	[Nm]
M_y	-1.562	33.249	[Nm]
M_z	-0.768	1.058	[Nm]
Predicted Force	$F_{x,D,max}$	163.878	[N]
Initial time	t_0	5.934	[s]
Time to peak	τ_{max}	0.837	[s]
Total impulse	I_{tot}	1353.783	[Ns]
Peak Impulse	I_{peak}	88.247	[Ns]
Relative impulse	I^*	0.068	[-]
Wave height at $F_{x,max}$	h_M	0.914	[-]
Resistance coefficient	C_R	1.189	[-]

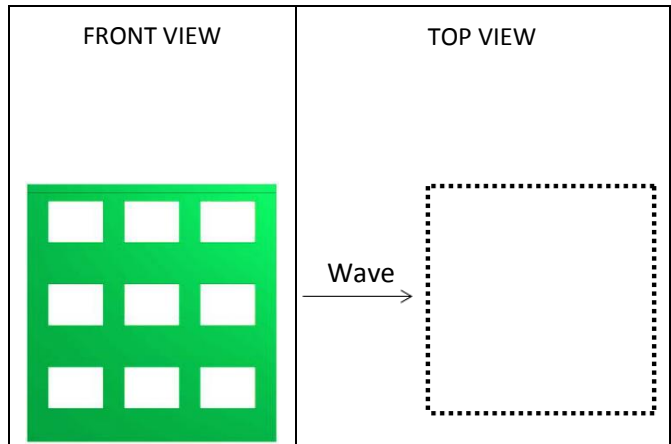


* All parameters are presented and defined at the beginning of the Appendix



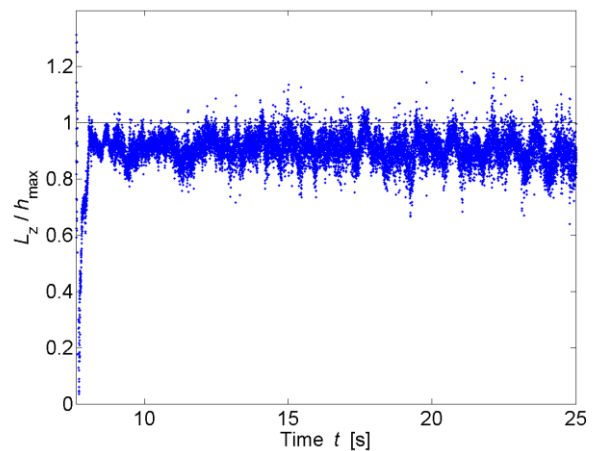
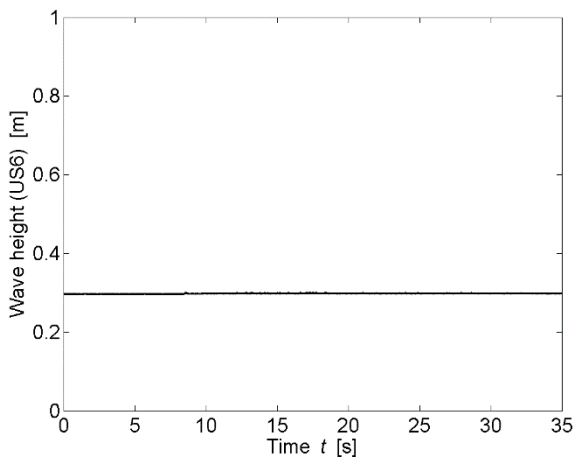
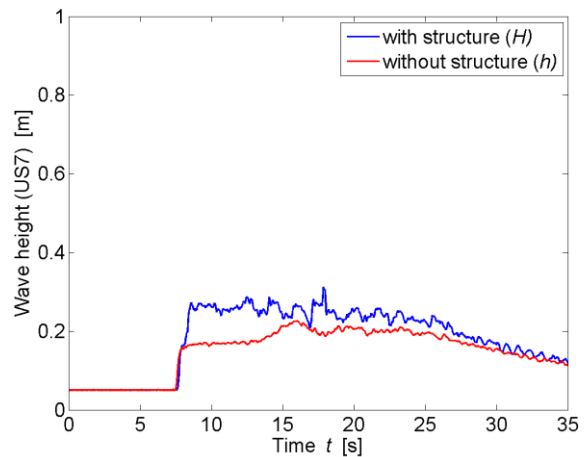
TEST PARAMETERS

Name		B34_0_WW5_1P_1	
Repetitions		1	
Configuration		All Porous (0)	
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	36.85	[%]
Building height	H_B	0.3	[m]
Wave type		Bore (WW5_1P)	
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.927	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.312	[m]

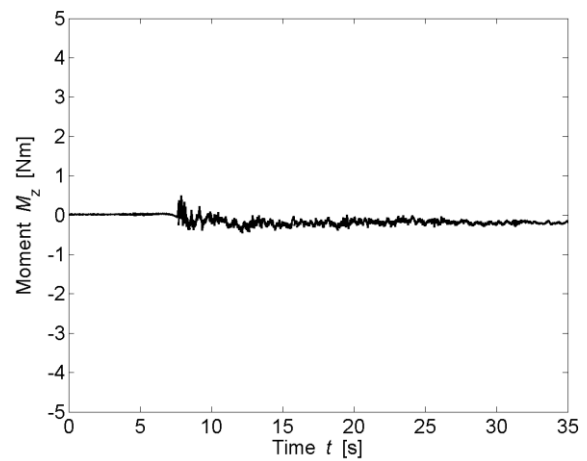
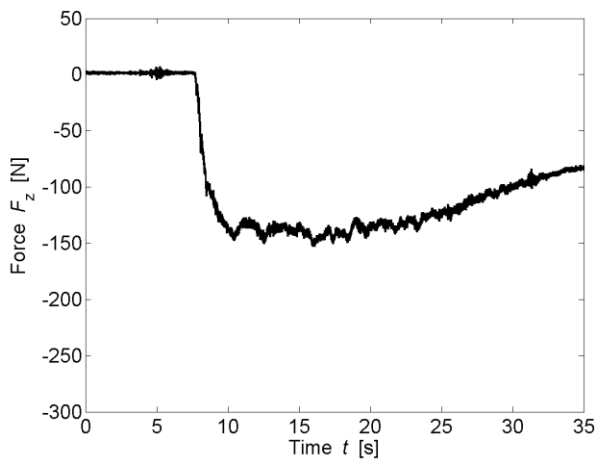
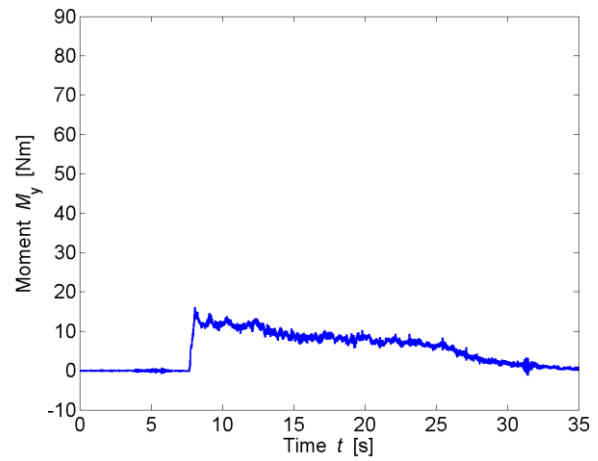
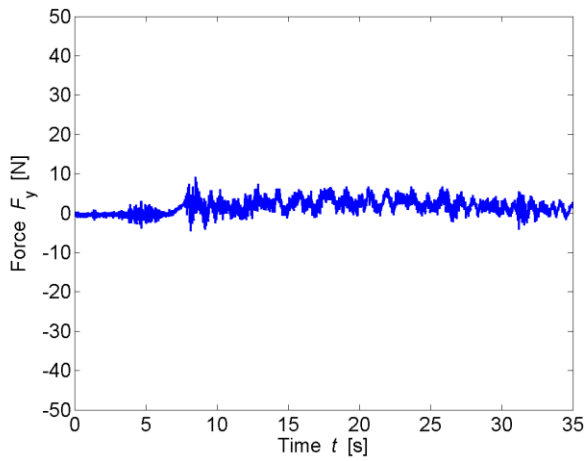
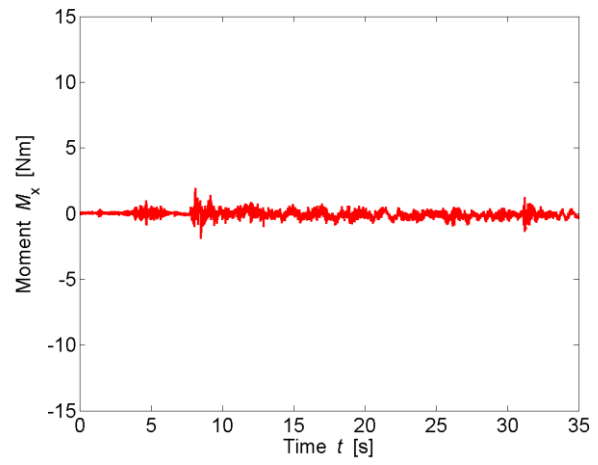
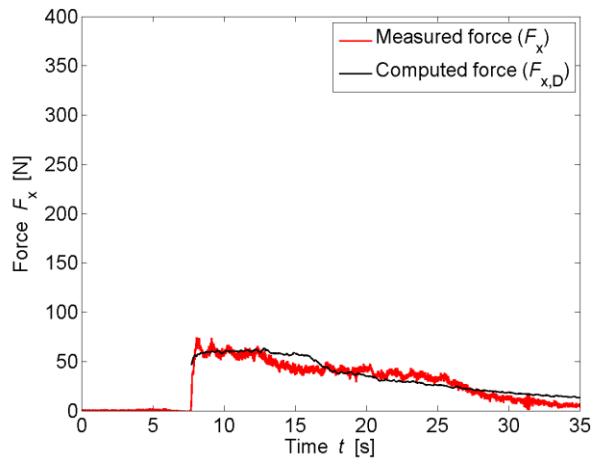


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.375	74.271	[N]
F_y	-4.523	9.230	[N]
F_z	-152.953	1.577	[N]
M_x	-1.910	1.930	[Nm]
M_y	-1.268	16.070	[Nm]
M_z	-0.460	0.490	[Nm]
Predicted Force	$F_{x,D,max}$	63.000	[N]
Initial time	t_0	7.684	[s]
Time to peak	τ_{max}	0.384	[s]
Total impulse	I_{tot}	866.833	[Ns]
Peak Impulse	I_{peak}	16.202	[Ns]
Relative impulse	I^*	0.018	[-]
Wave height at $F_{x,max}$	h_M	0.682	[-]
Resistance coefficient	C_R	1.408	[-]

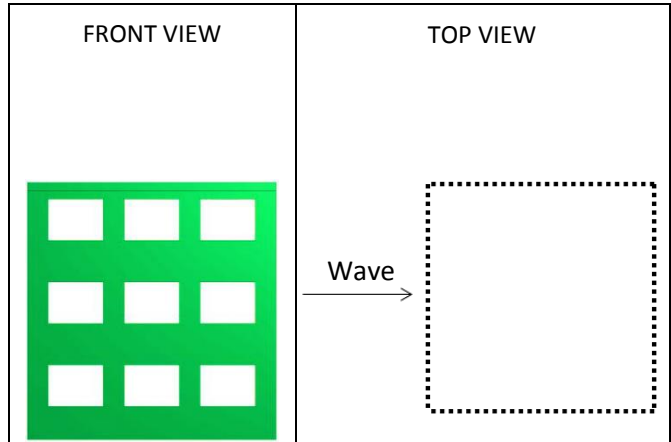


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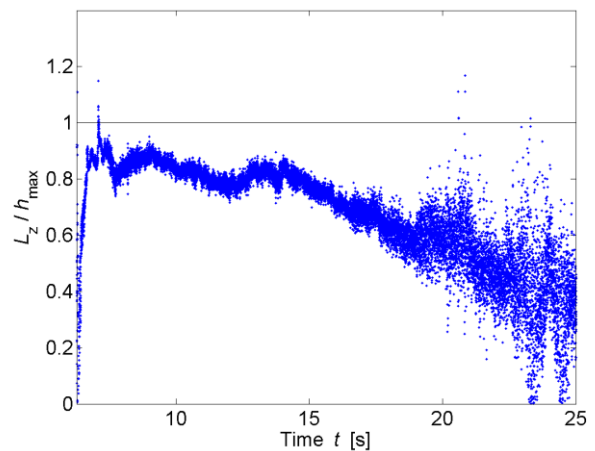
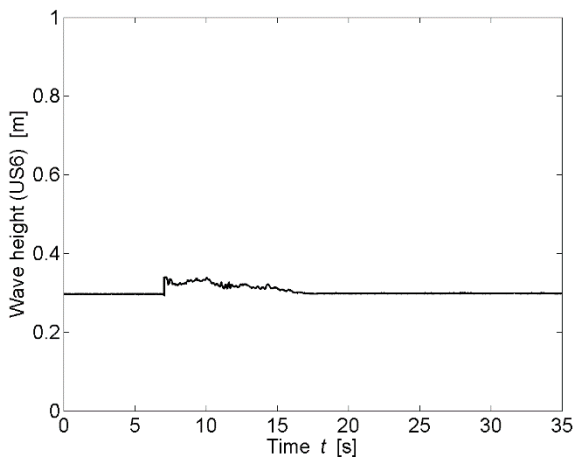
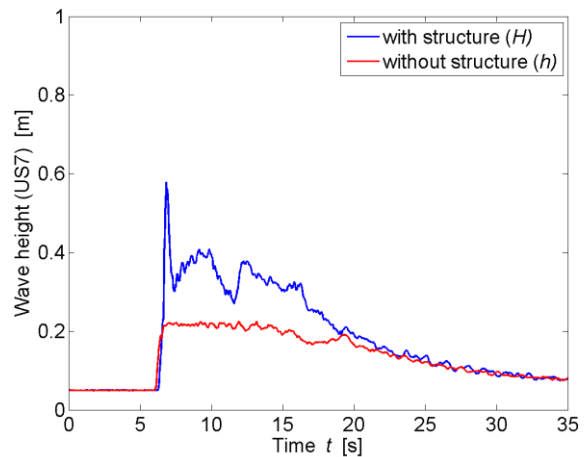
TEST PARAMETERS

Name	B34_0_WW5_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	30.55	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.447	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.578	[m]

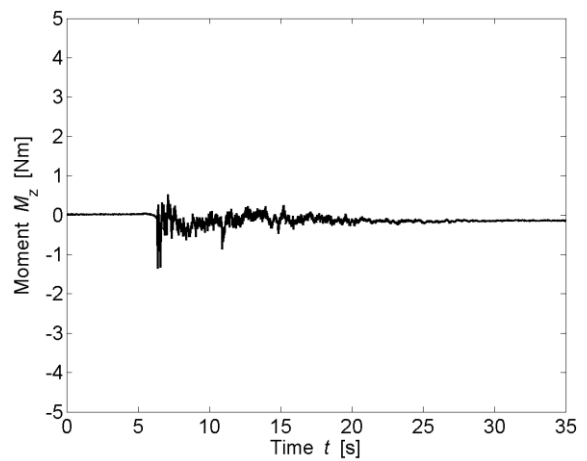
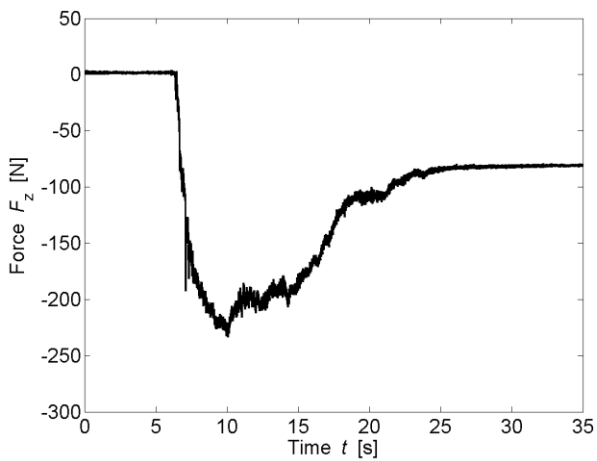
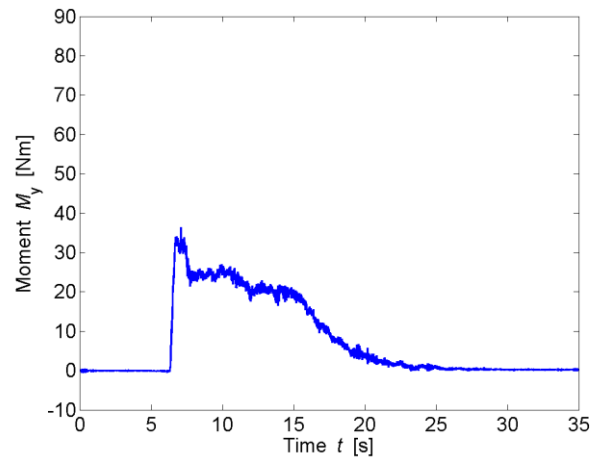
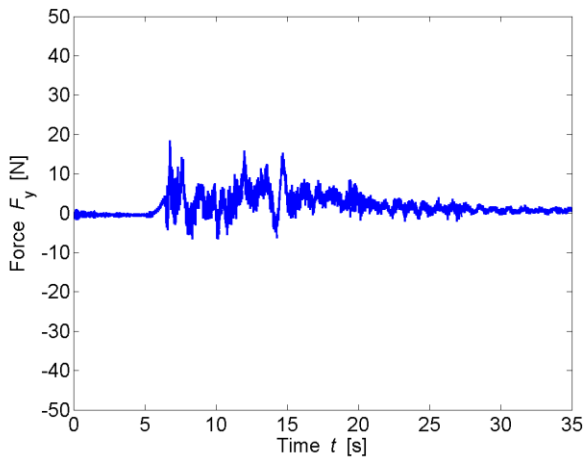
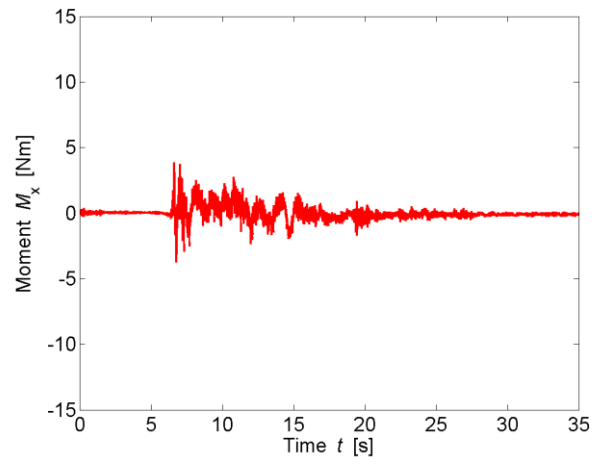
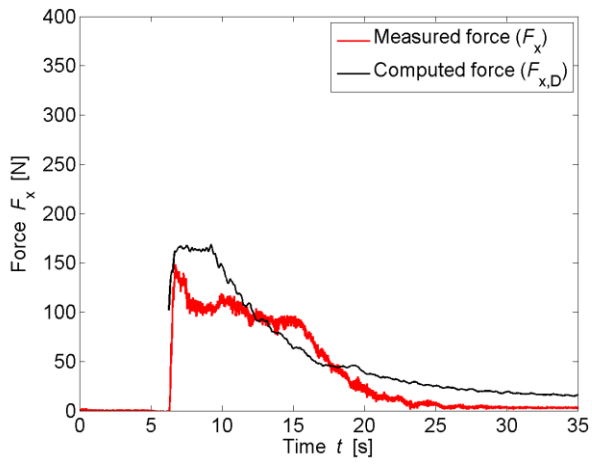


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.488	148.521	[N]
F_y	-6.579	18.432	[N]
F_z	-233.358	2.795	[N]
M_x	-3.755	3.843	[Nm]
M_y	-0.661	36.357	[Nm]
M_z	-1.360	0.527	[Nm]
Predicted Force	$F_{x,D,max}$	168.665	[N]
Initial time	t_0	6.326	[s]
Time to peak	τ_{max}	0.412	[s]
Total impulse	I_{tot}	1235.404	[Ns]
Peak Impulse	I_{peak}	35.194	[Ns]
Relative impulse	I^*	0.029	[-]
Wave height at $F_{x,max}$	h_M	0.951	[-]
Resistance coefficient	C_R	1.198	[-]

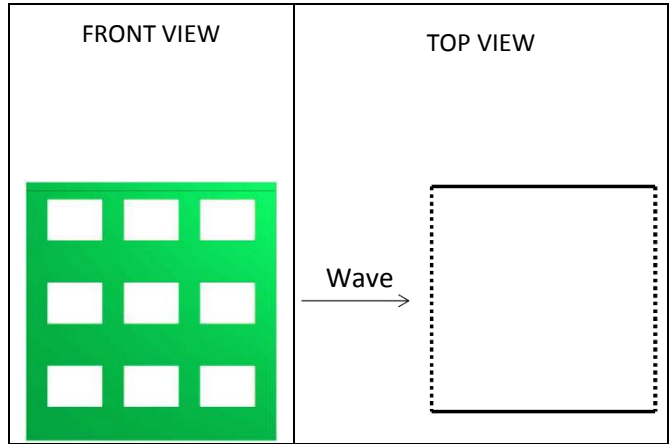


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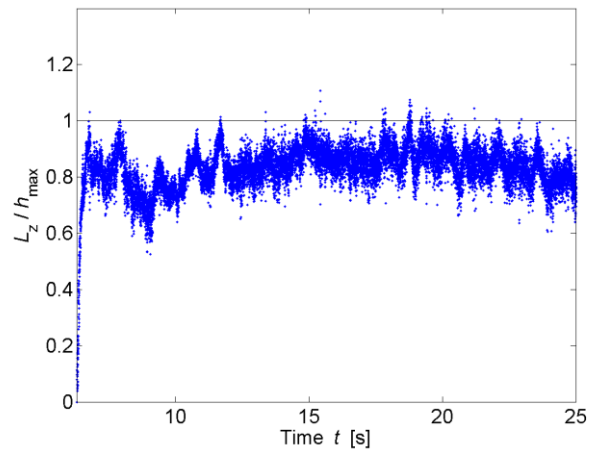
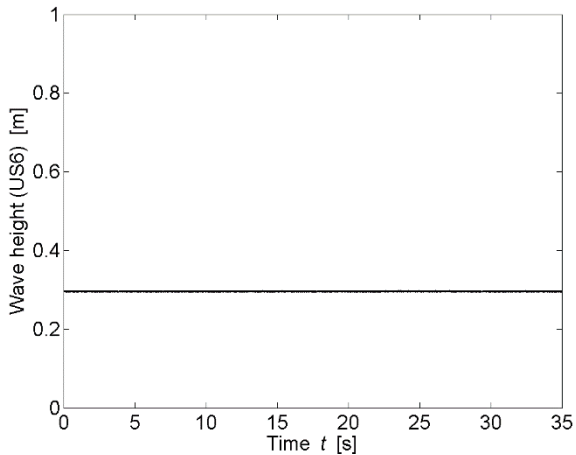
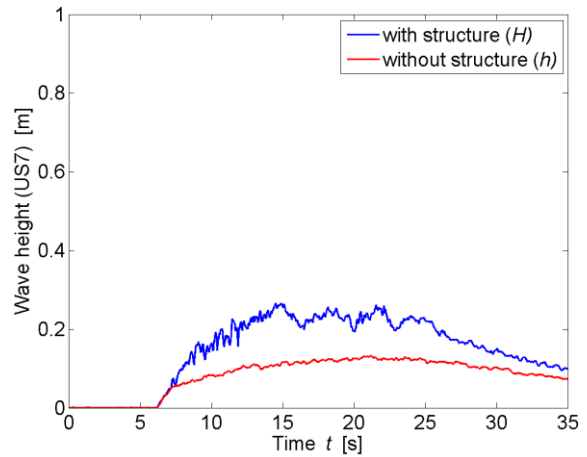
TEST PARAMETERS

Name	B34_F_WD1_2		
Repetitions	5		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	26.62	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.354	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.266	[m]

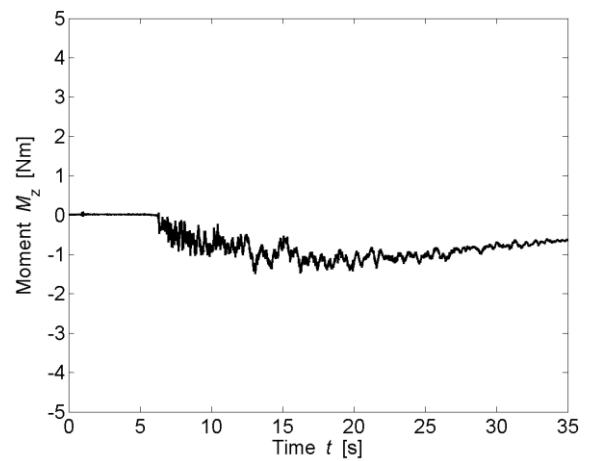
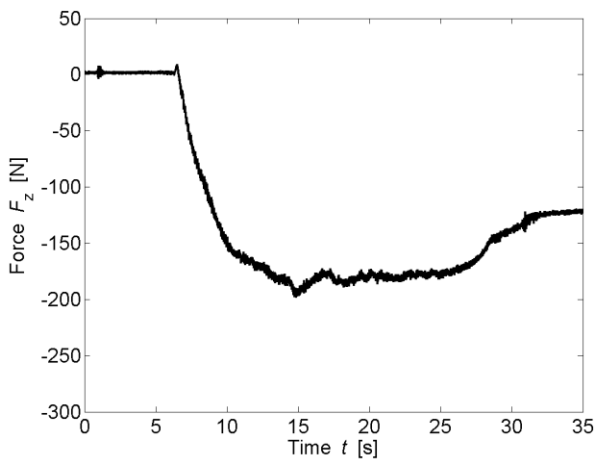
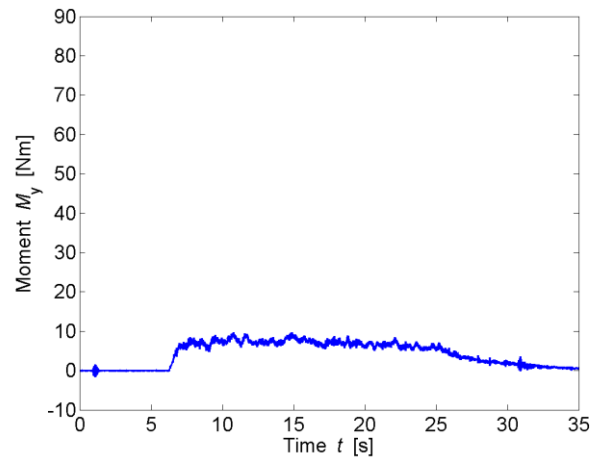
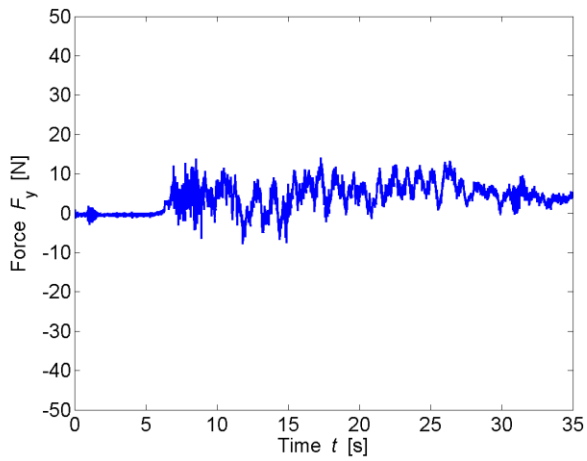
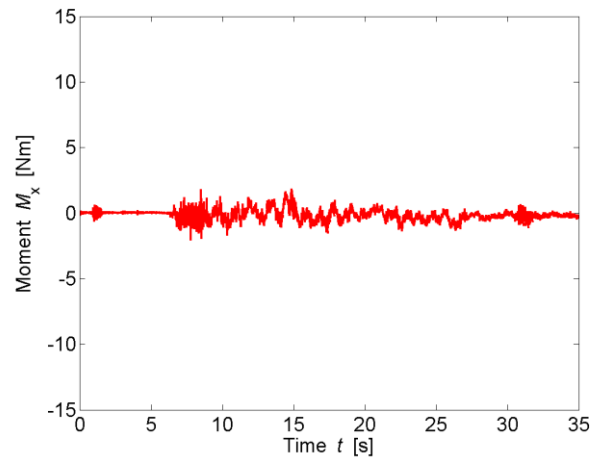
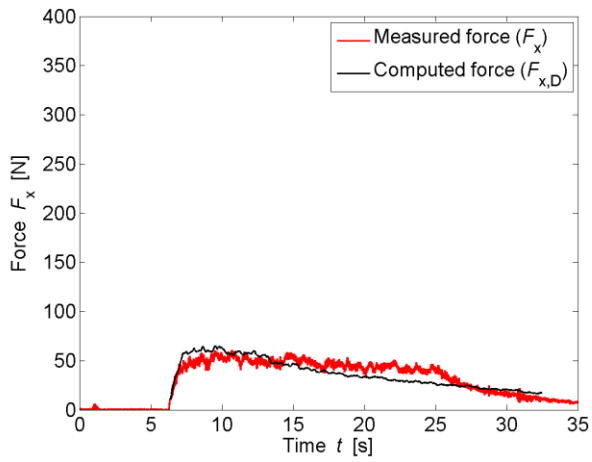


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.061	60.715	[N]
F_y	-7.779	14.164	[N]
F_z	-198.381	9.346	[N]
M_x	-2.069	1.853	[Nm]
M_y	-1.651	9.720	[Nm]
M_z	-1.498	0.091	[Nm]
Predicted Force	$F_{x,D,max}$	64.812	[N]
Initial time	t_0	6.348	[s]
Time to peak	τ_{max}	4.349	[s]
Total impulse	I_{tot}	857.114	[Ns]
Peak Impulse	I_{peak}	200.037	[Ns]
Relative impulse	I^*	0.213	[-]
Wave height at $F_{x,max}$	h_M	0.621	[-]
Resistance coefficient	C_R	1.526	[-]

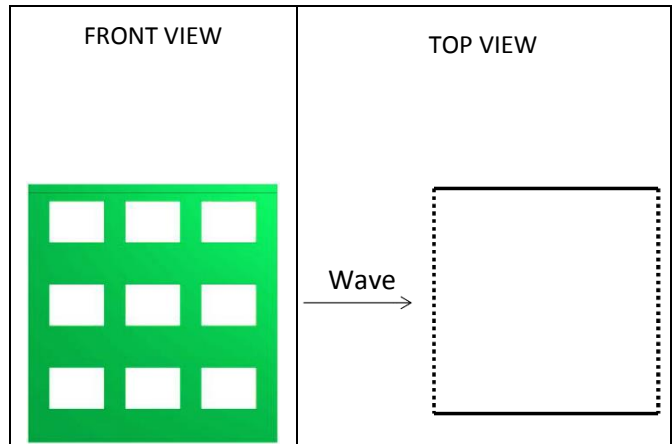


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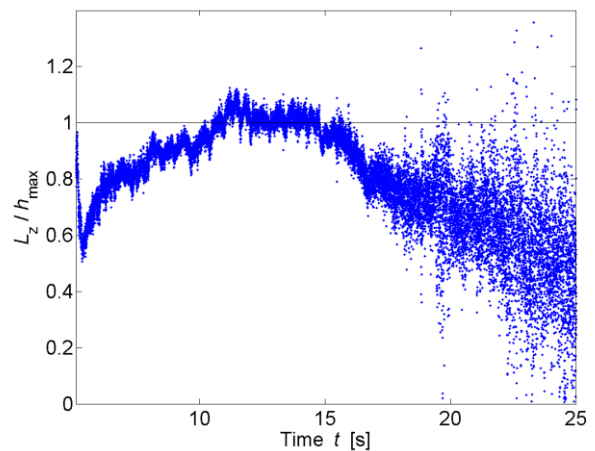
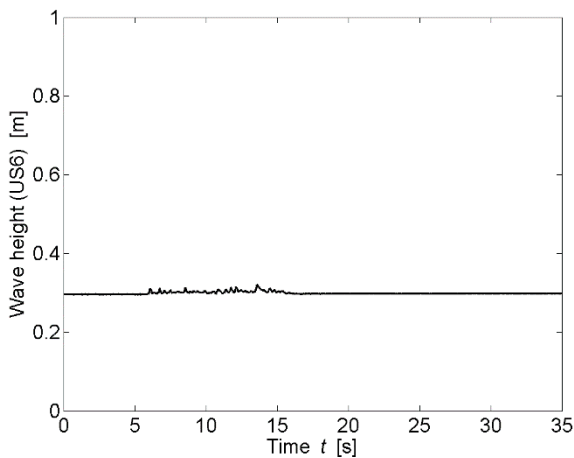
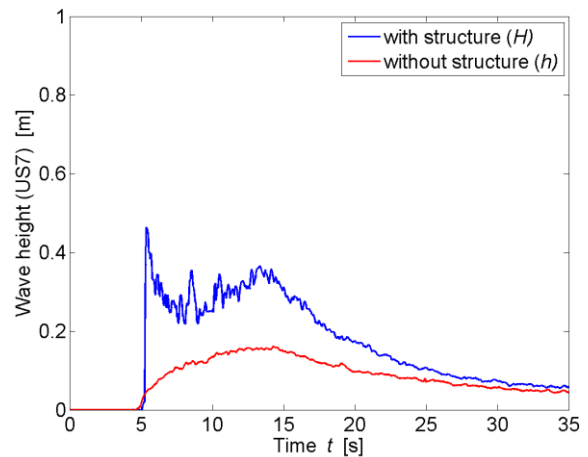
TEST PARAMETERS

Name	B34_F_WD2_2		
Repetitions	5		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	33.36	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.058	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.464	[m]

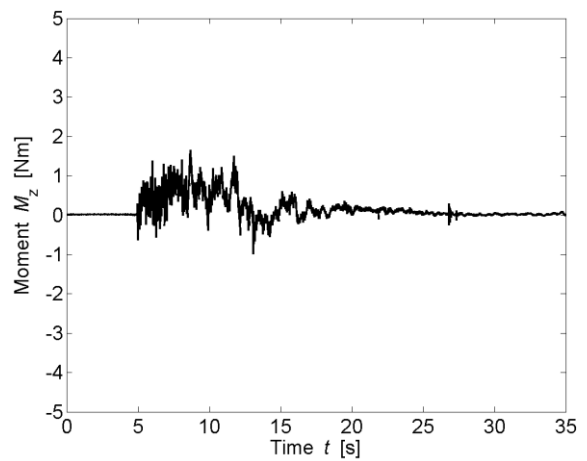
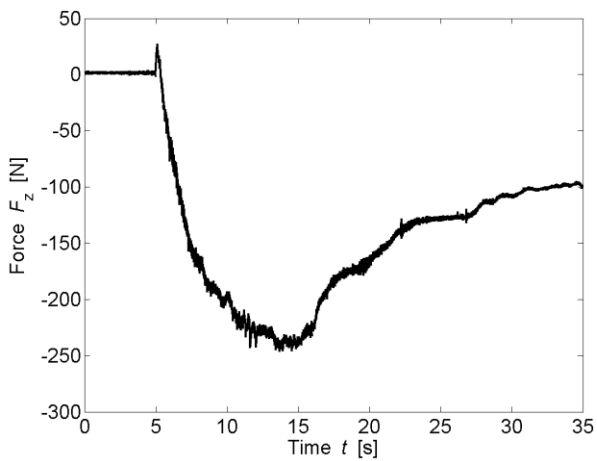
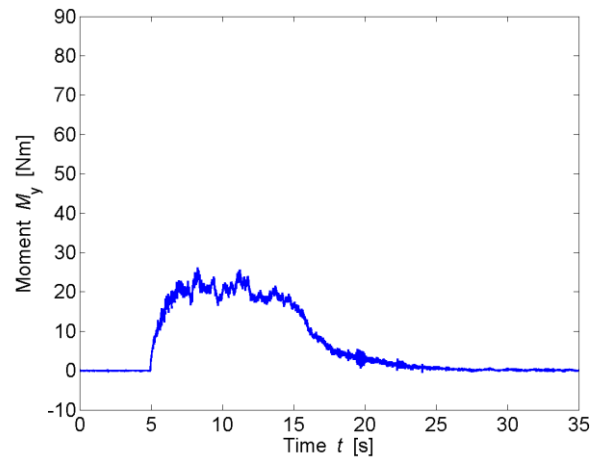
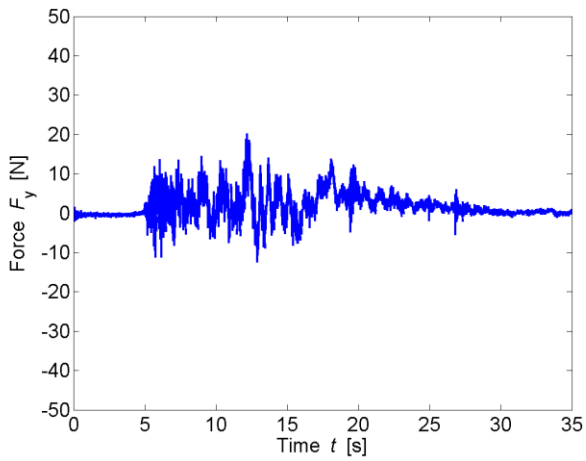
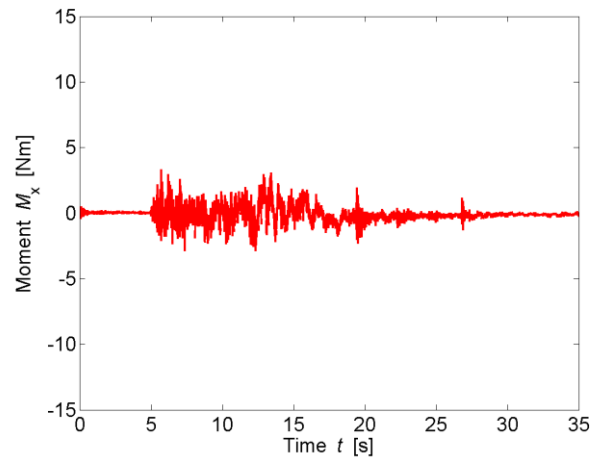
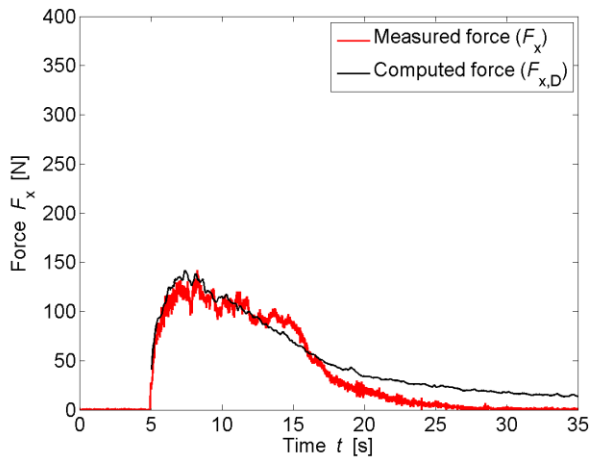


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.415	141.868	[N]
F_y	-12.452	20.169	[N]
F_z	-246.571	21.069	[N]
M_x	-2.901	3.343	[Nm]
M_y	-1.208	26.127	[Nm]
M_z	-0.986	1.656	[Nm]
Predicted Force	$F_{x,D,max}$	141.527	[N]
Initial time	t_0	5.142	[s]
Time to peak	τ_{max}	3.135	[s]
Total impulse	I_{tot}	1292.381	[Ns]
Peak Impulse	I_{peak}	331.758	[Ns]
Relative impulse	I^*	0.264	[-]
Wave height at $F_{x,max}$	h_M	0.718	[-]
Resistance coefficient	C_R	1.315	[-]

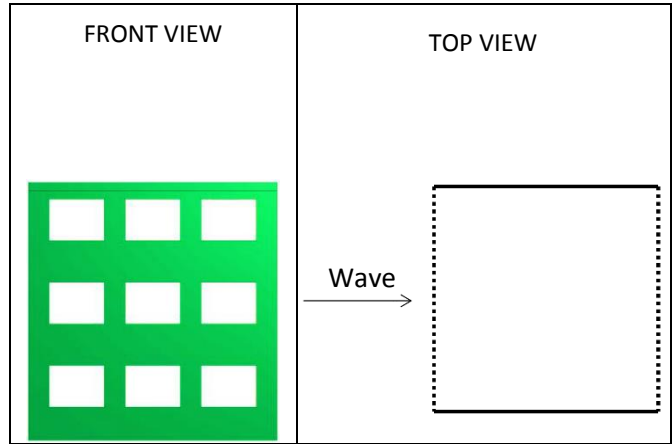


* All parameters are presented and defined at the beginning of the Appendix



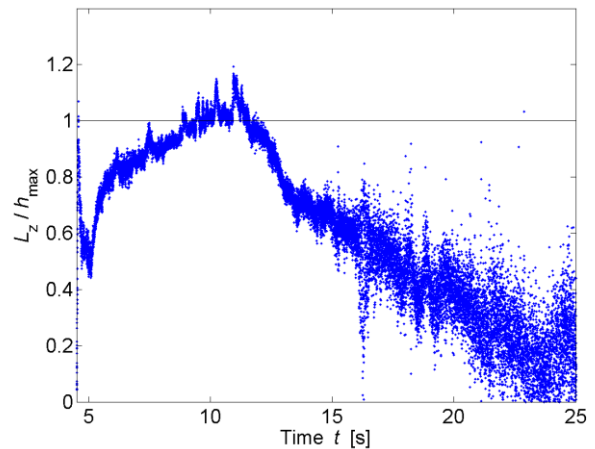
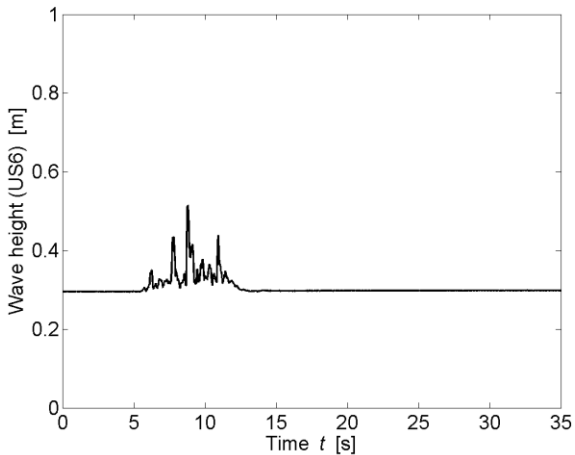
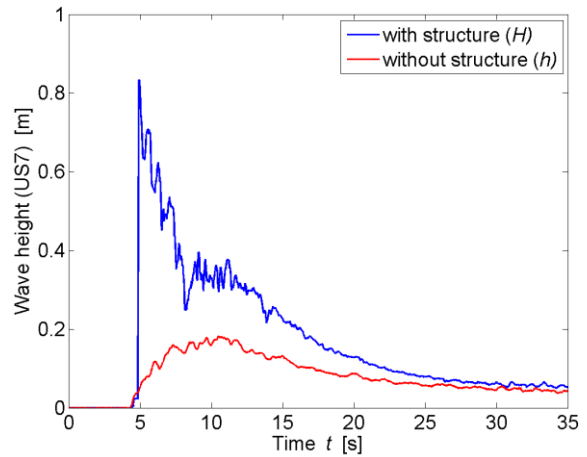
TEST PARAMETERS

Name	B34_F_WD3_1		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	37.62	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.548	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.833	[m]

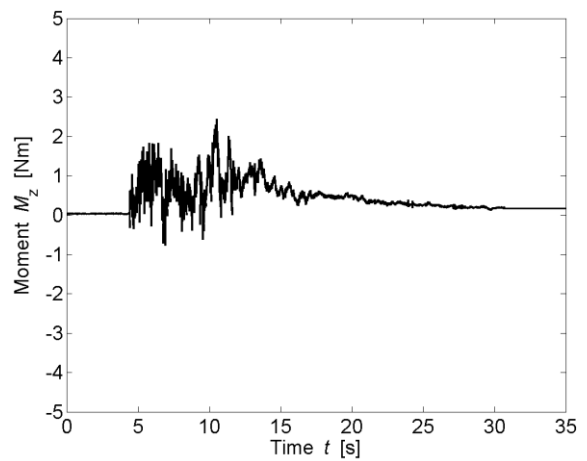
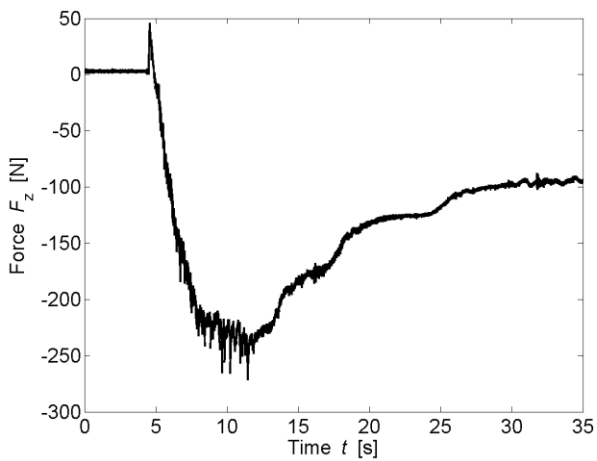
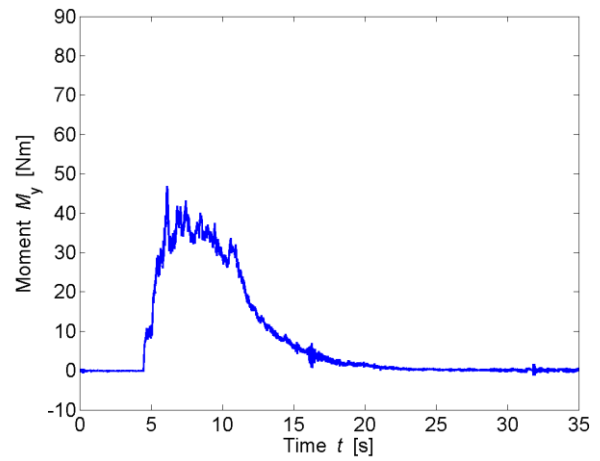
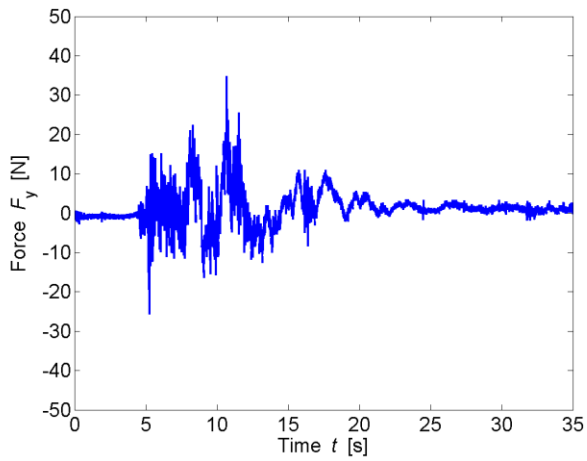
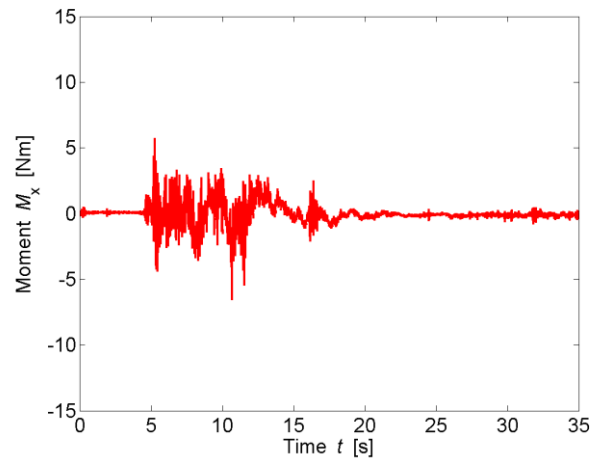
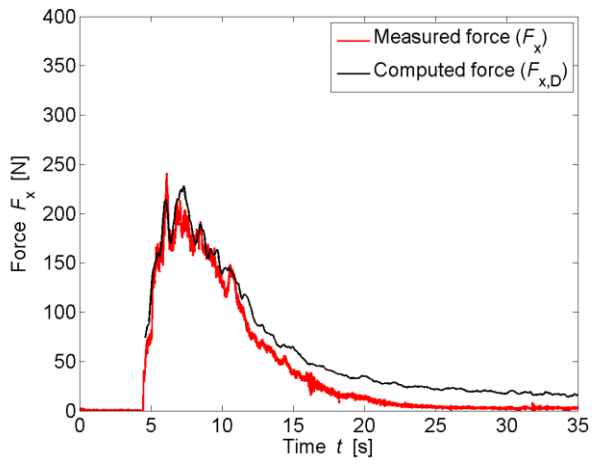


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.992	241.397	[N]
F_y	-25.687	34.759	[N]
F_z	-271.795	46.074	[N]
M_x	-6.562	5.758	[Nm]
M_y	-1.721	46.839	[Nm]
M_z	-0.715	2.219	[Nm]
Predicted Force	$F_{x,D,max}$	227.920	[N]
Initial time	t_0	4.549	[s]
Time to peak	τ_{max}	1.562	[s]
Total impulse	I_{tot}	1443.212	[Ns]
Peak Impulse	I_{peak}	196.801	[Ns]
Relative impulse	I^*	0.143	[-]
Wave height at $F_{x,max}$	h_M	0.642	[-]
Resistance coefficient	C_R	1.300	[-]

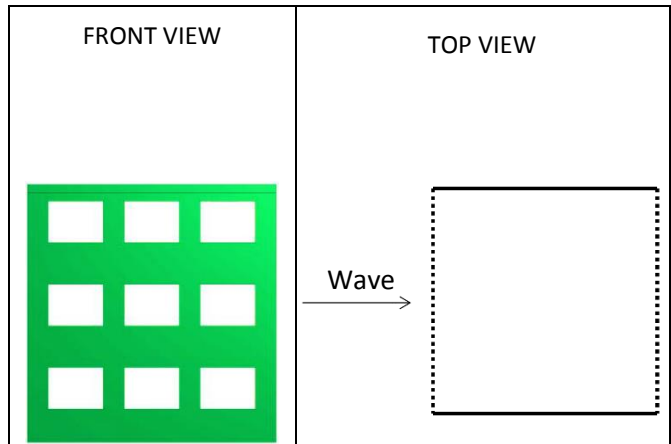


* All parameters are presented and defined at the beginning of the Appendix



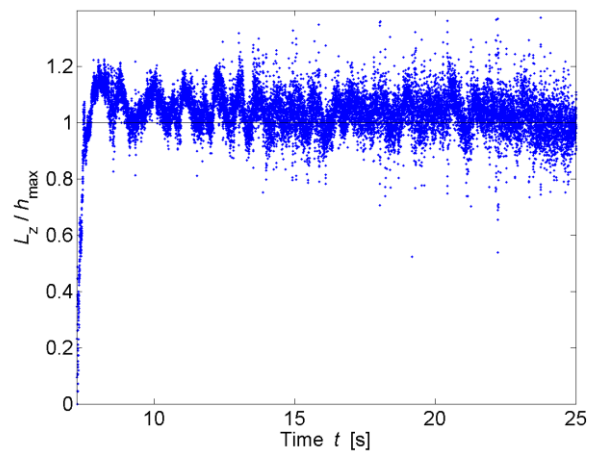
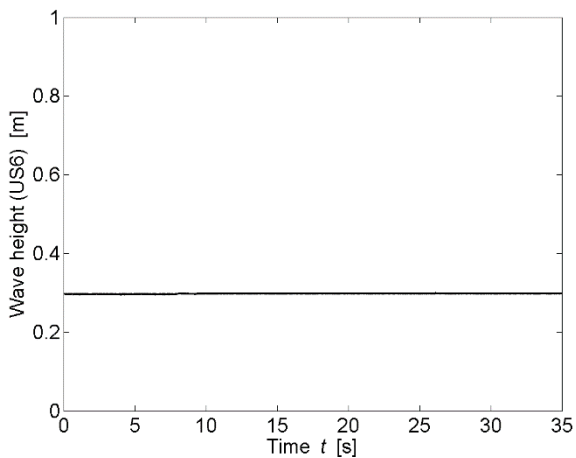
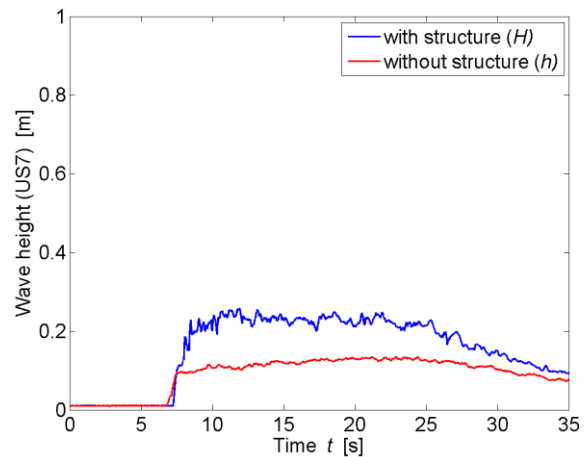
TEST PARAMETERS

Name	B34_F_WW1_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	27.08	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.065	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.258	[m]

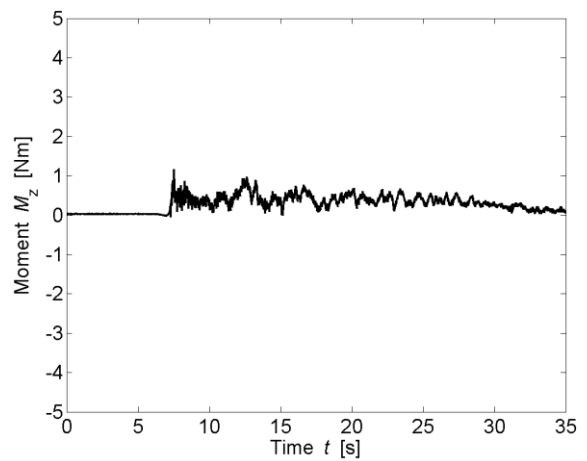
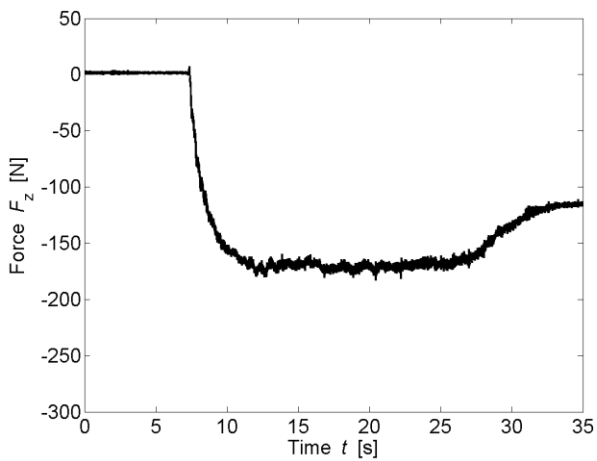
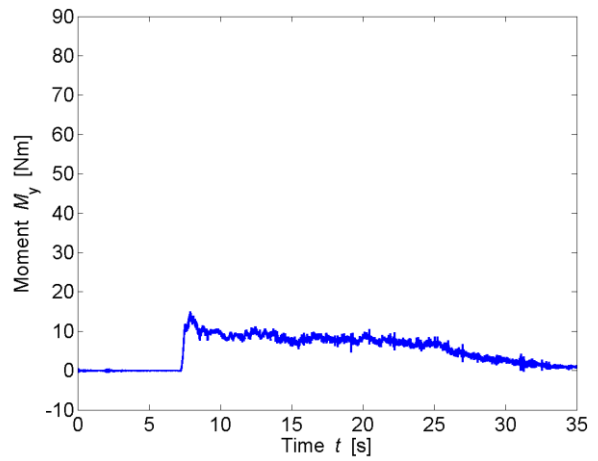
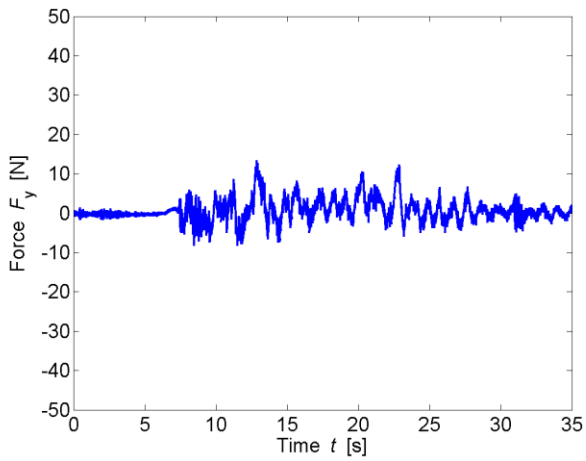
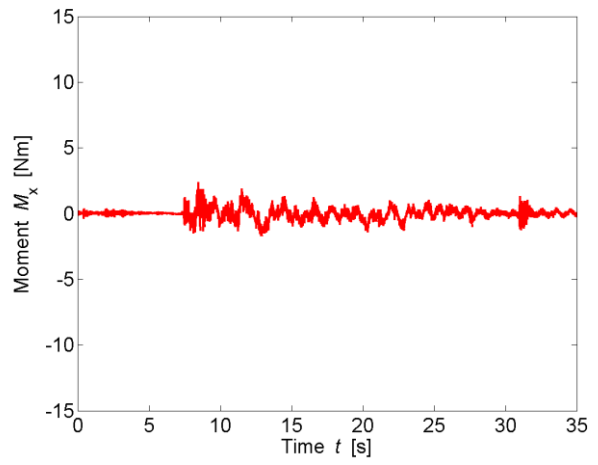
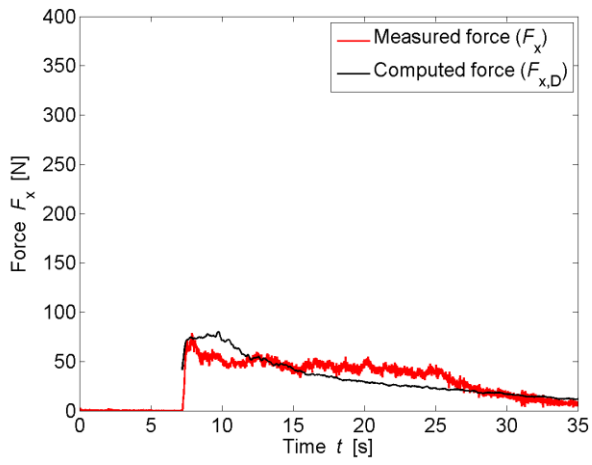


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.891	78.529	[N]
F_y	-8.243	13.366	[N]
F_z	-182.941	7.200	[N]
M_x	-1.712	2.384	[Nm]
M_y	-0.732	15.026	[Nm]
M_z	-0.054	1.166	[Nm]
Predicted Force	$F_{x,D,max}$	80.187	[N]
Initial time	t_0	7.293	[s]
Time to peak	τ_{max}	0.590	[s]
Total impulse	I_{tot}	903.958	[Ns]
Peak Impulse	I_{peak}	32.918	[Ns]
Relative impulse	I^*	0.036	[-]
Wave height at $F_{x,max}$	h_M	0.707	[-]
Resistance coefficient	C_R	1.375	[-]

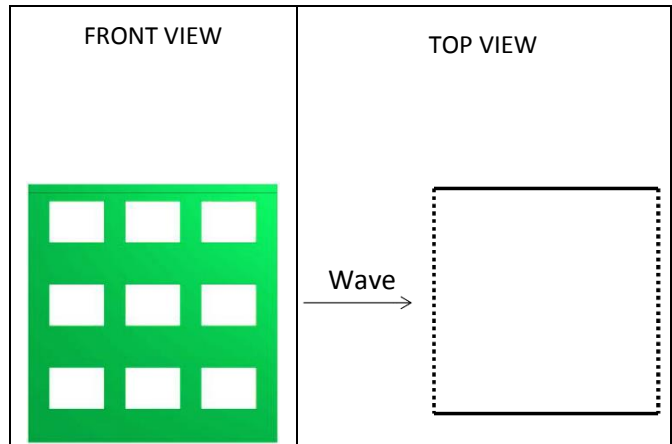


* All parameters are presented and defined at the beginning of the Appendix



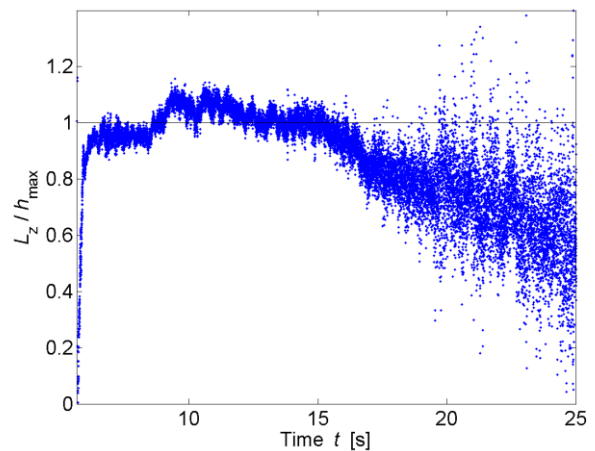
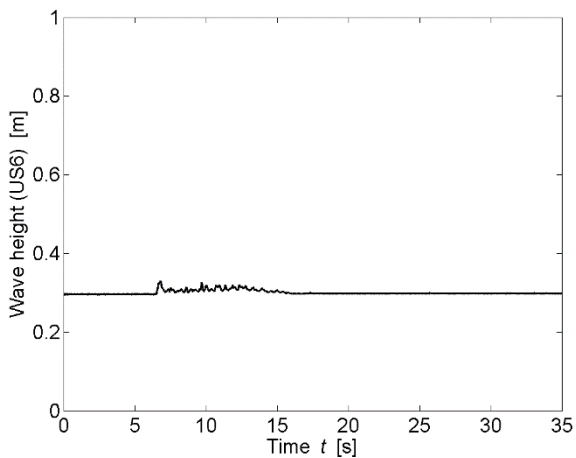
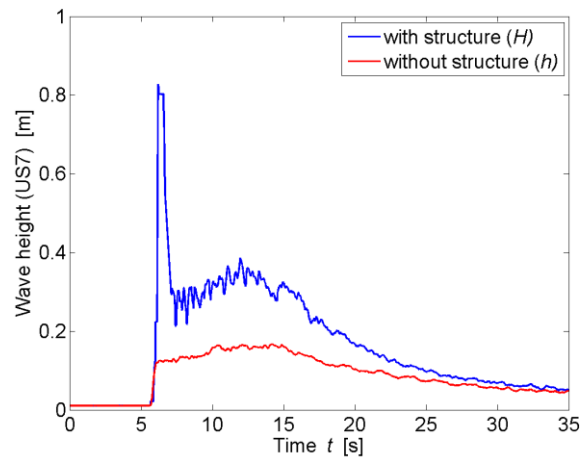
TEST PARAMETERS

Name	B34_F_WW1_2P_1		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	34.76	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.674	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.828	[m]

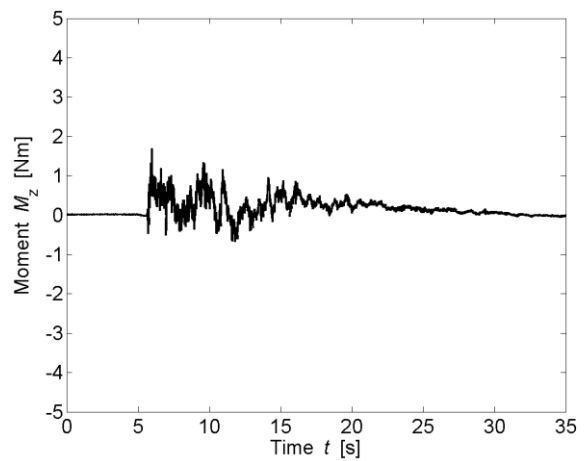
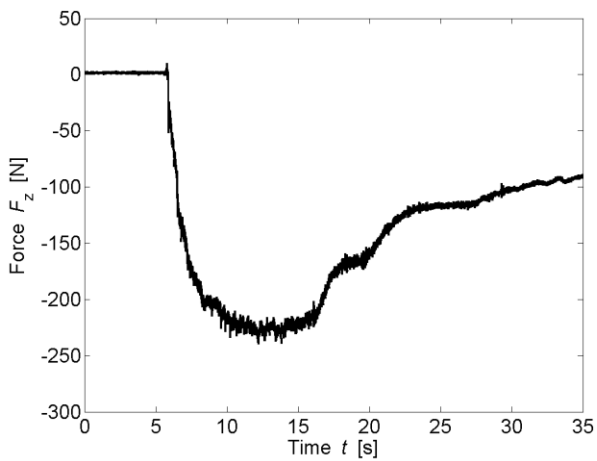
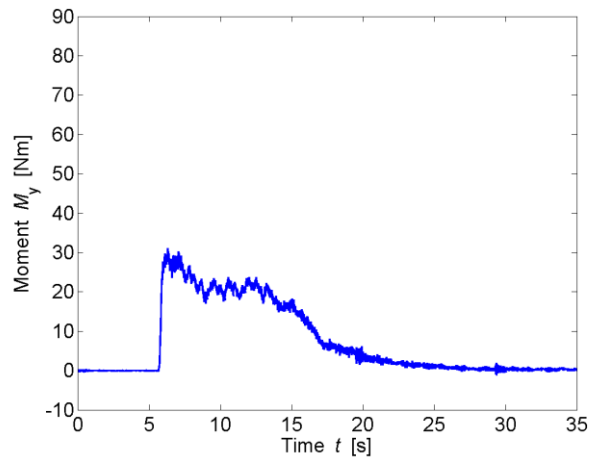
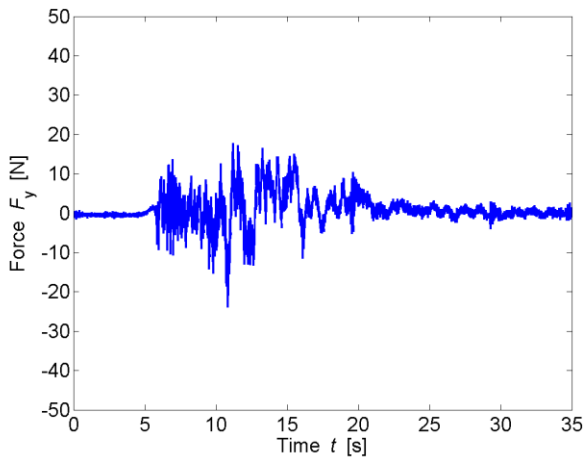
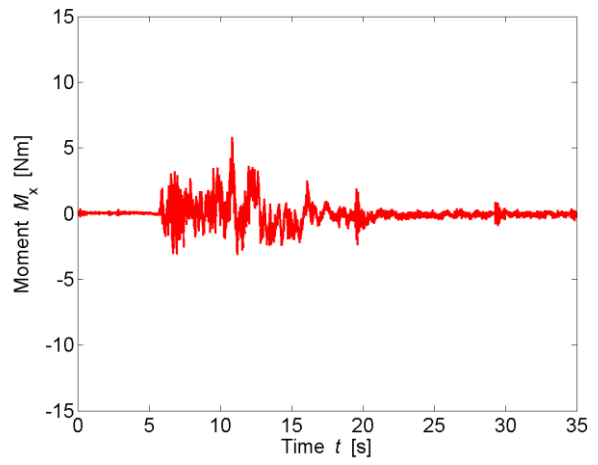
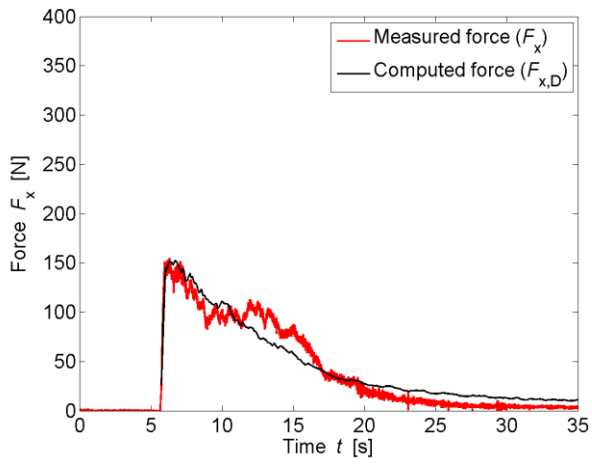


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.802	154.957	[N]
F_y	-23.881	17.722	[N]
F_z	-239.449	10.386	[N]
M_x	-3.107	5.811	[Nm]
M_y	-1.177	31.140	[Nm]
M_z	-0.675	1.700	[Nm]
Predicted Force	$F_{x,D,max}$	152.558	[N]
Initial time	t_0	5.690	[s]
Time to peak	τ_{max}	0.642	[s]
Total impulse	I_{tot}	1282.210	[Ns]
Peak Impulse	I_{peak}	73.348	[Ns]
Relative impulse	I^*	0.060	[-]
Wave height at $F_{x,max}$	h_M	0.750	[-]
Resistance coefficient	C_R	1.299	[-]

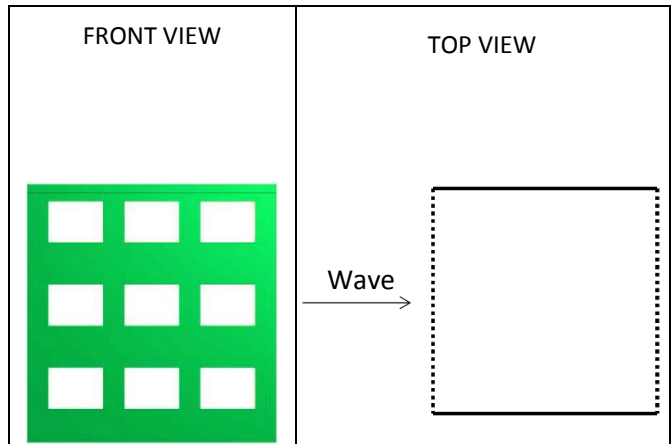


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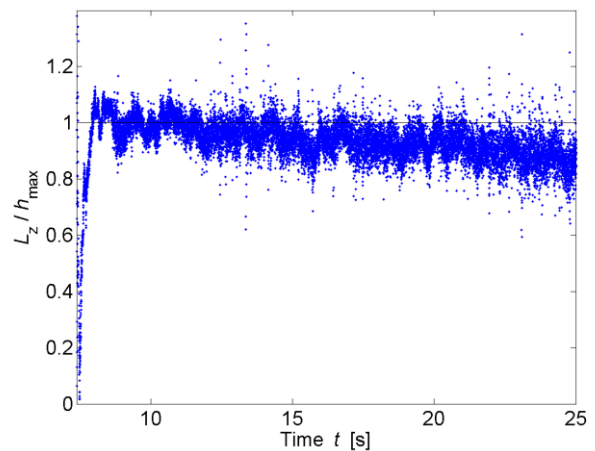
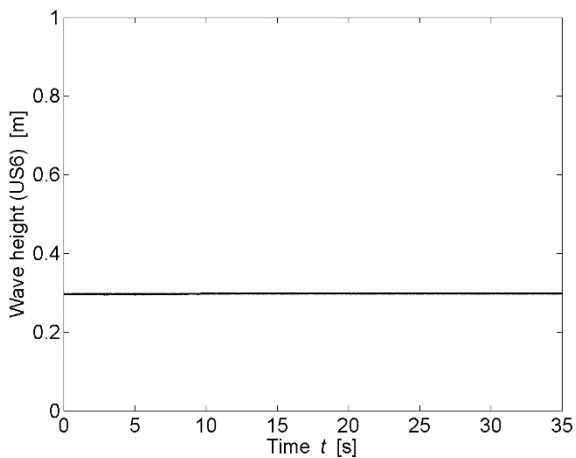
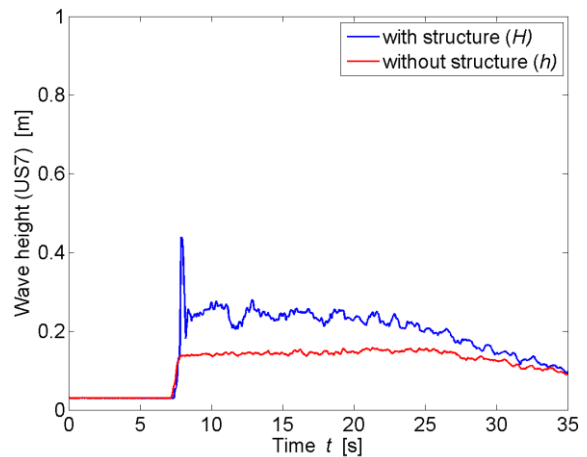
TEST PARAMETERS

Name	B34_F_WW3_1P_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	32.66	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.969	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.439	[m]

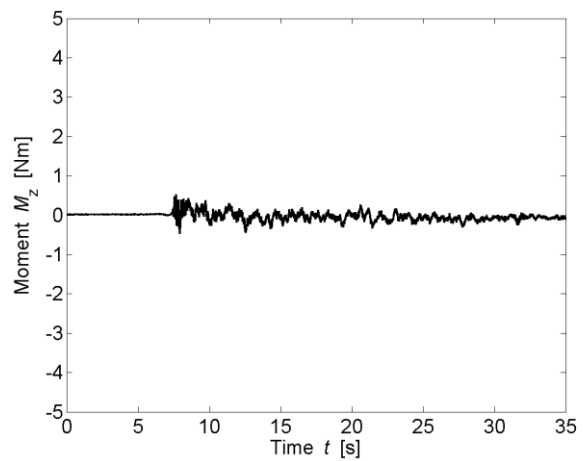
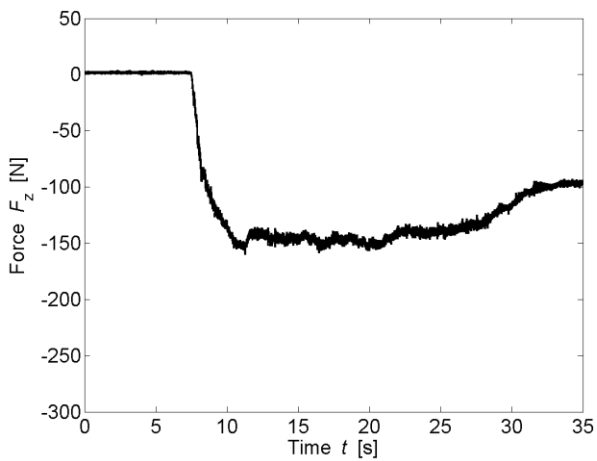
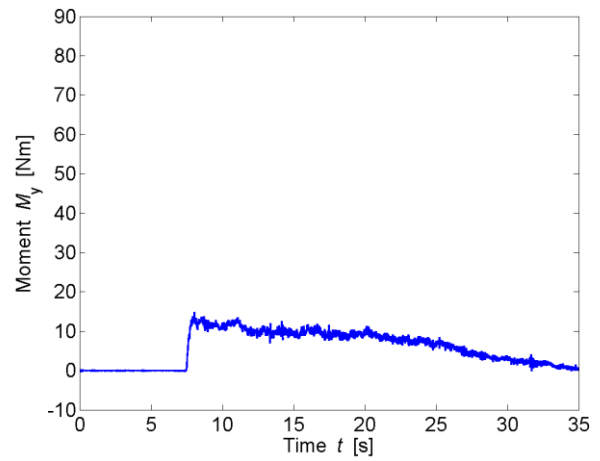
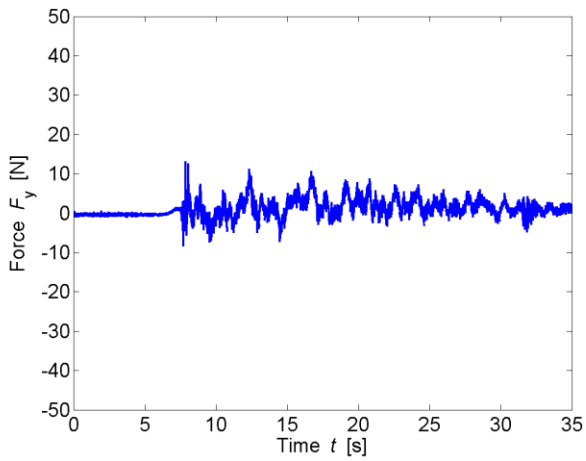
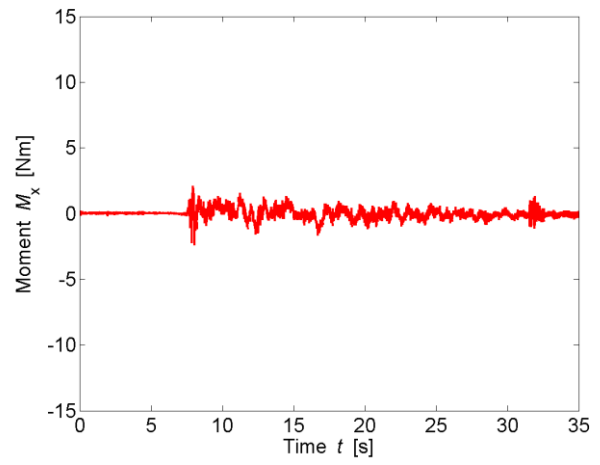
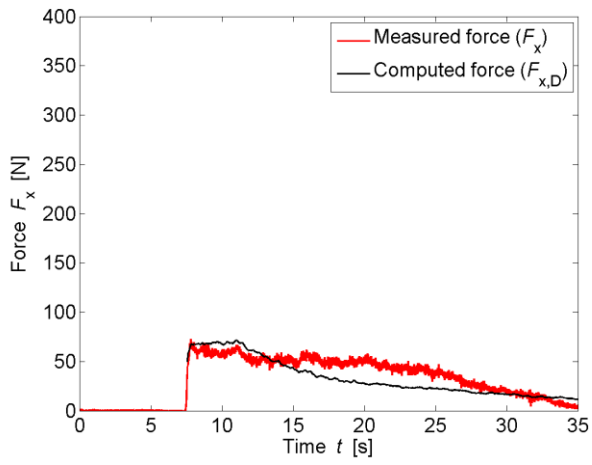


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.351	72.771	[N]
F_y	-8.316	13.170	[N]
F_z	-160.262	2.702	[N]
M_x	-2.400	2.092	[Nm]
M_y	-0.756	14.812	[Nm]
M_z	-0.465	0.526	[Nm]
Predicted Force	$F_{x,D,max}$	71.365	[N]
Initial time	t_0	7.439	[s]
Time to peak	τ_{max}	0.376	[s]
Total impulse	I_{tot}	978.430	[Ns]
Peak Impulse	I_{peak}	15.018	[Ns]
Relative impulse	I^*	0.015	[-]
Wave height at $F_{x,max}$	h_M	0.860	[-]
Resistance coefficient	C_R	1.365	[-]

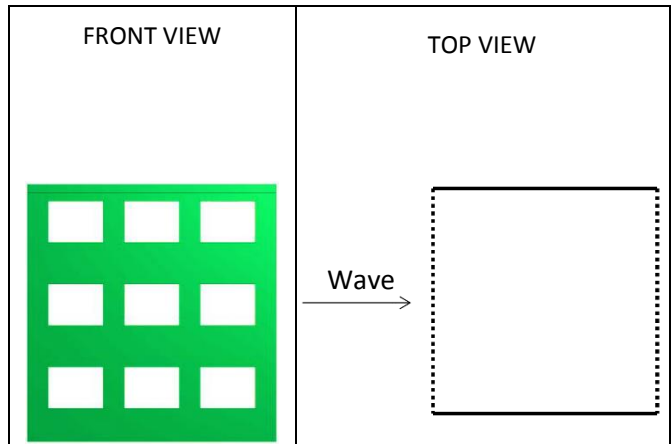


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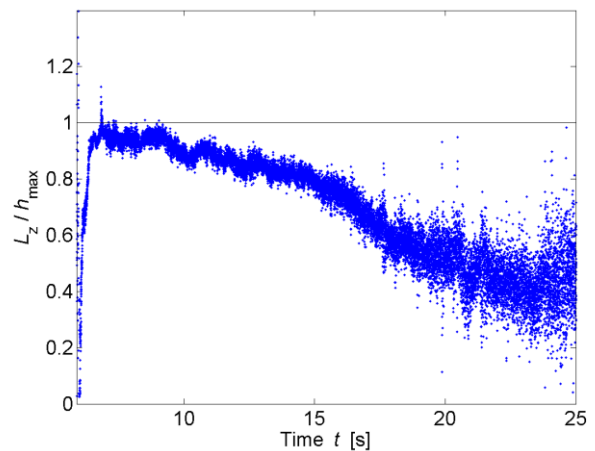
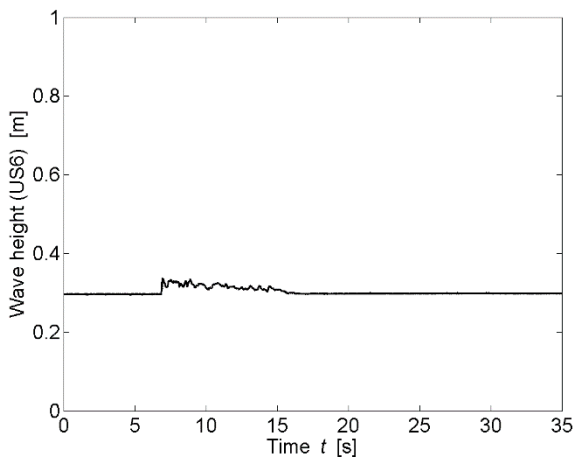
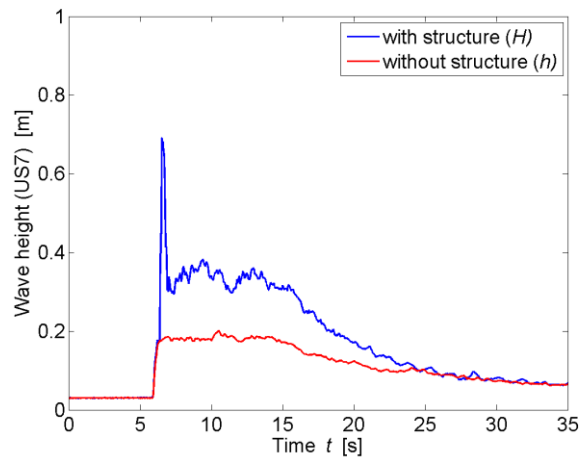
TEST PARAMETERS

Name	B34_F_WW3_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	34.49	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.487	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.691	[m]

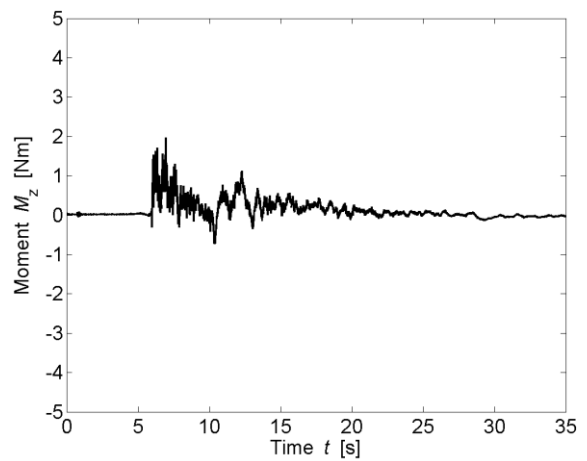
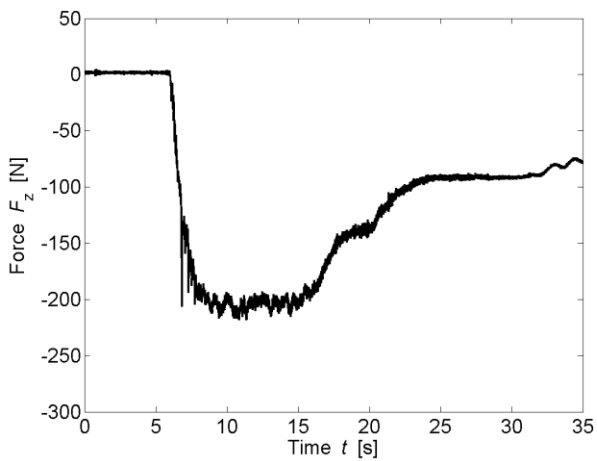
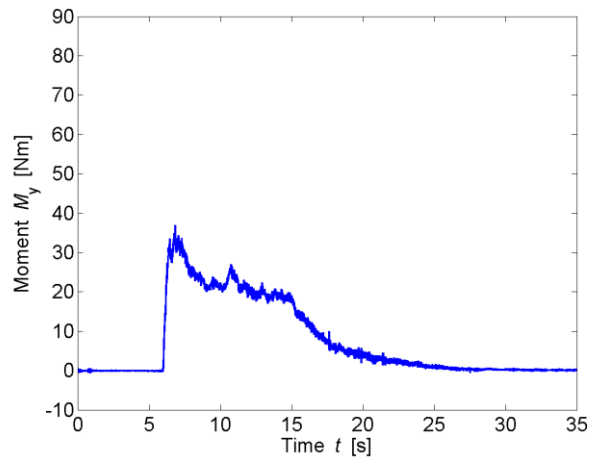
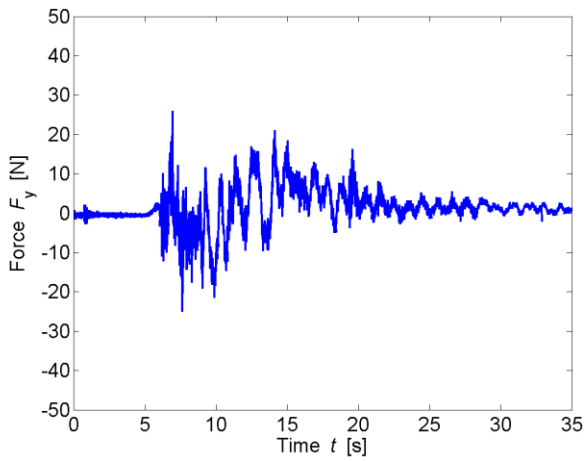
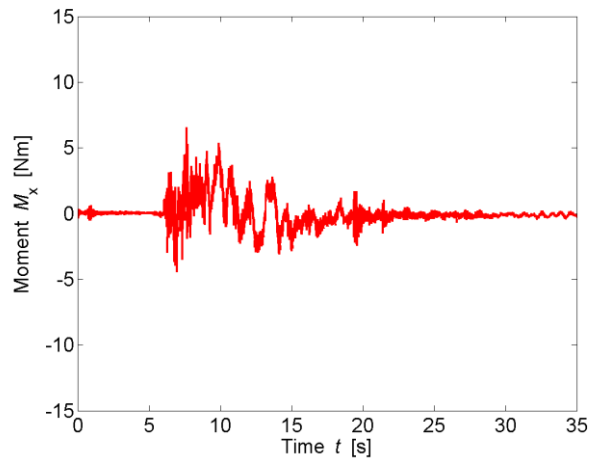
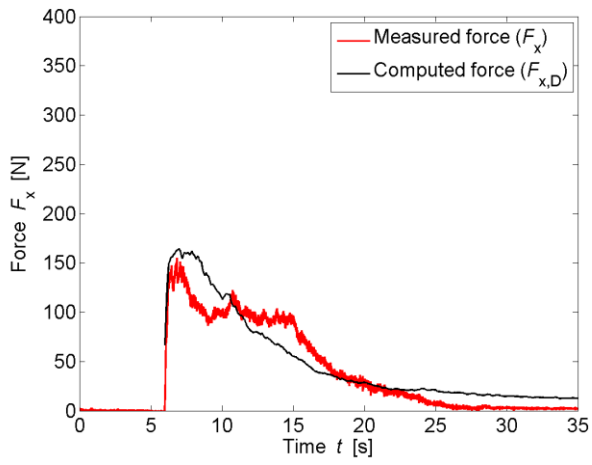


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.423	155.199	[N]
F_y	-24.957	25.969	[N]
F_z	-218.083	3.358	[N]
M_x	-4.451	6.579	[Nm]
M_y	-0.735	36.888	[Nm]
M_z	-0.727	1.962	[Nm]
Predicted Force	$F_{x,D,max}$	163.878	[N]
Initial time	t_0	5.934	[s]
Time to peak	τ_{max}	0.898	[s]
Total impulse	I_{tot}	1288.316	[Ns]
Peak Impulse	I_{peak}	97.893	[Ns]
Relative impulse	I^*	0.079	[-]
Wave height at $F_{x,max}$	h_M	0.919	[-]
Resistance coefficient	C_R	1.205	[-]

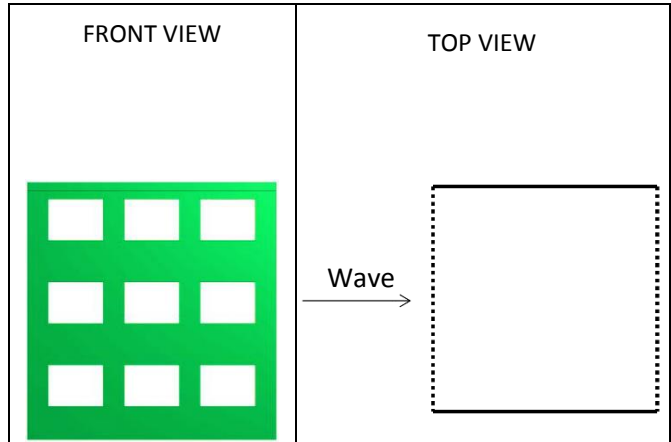


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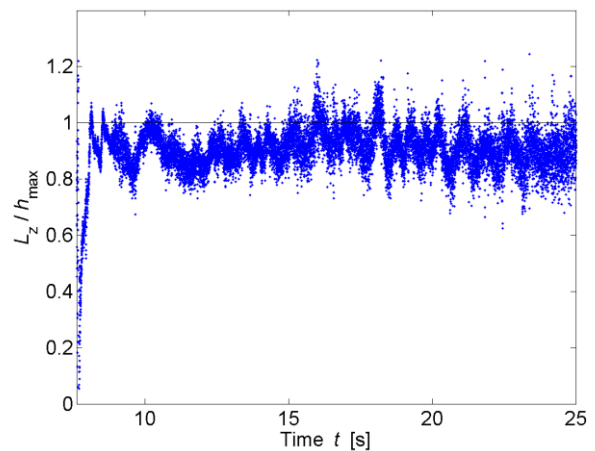
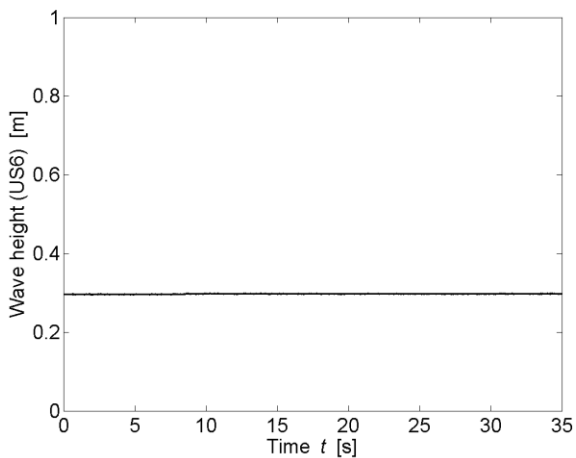
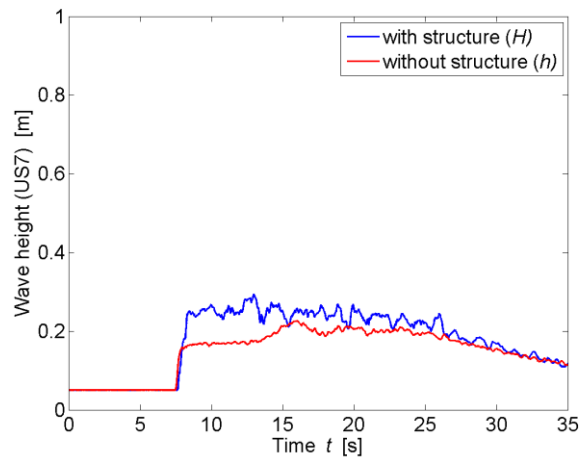
TEST PARAMETERS

Name	B34_F_WW5_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	36.85	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.936	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.294	[m]

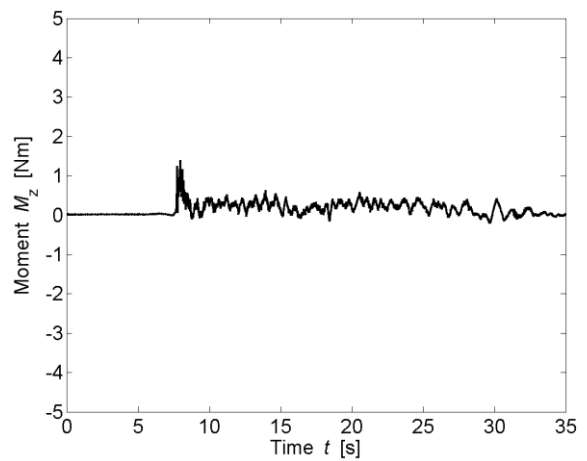
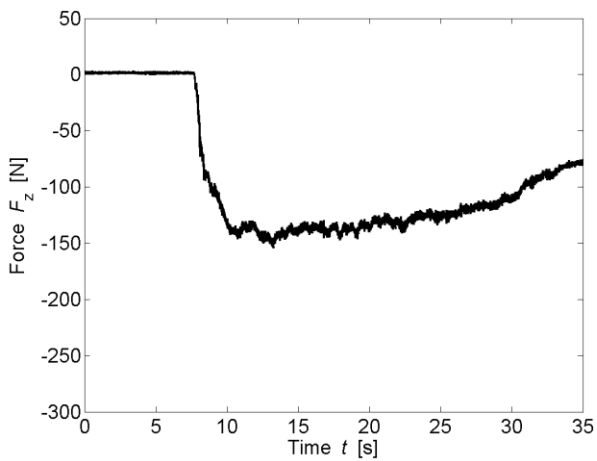
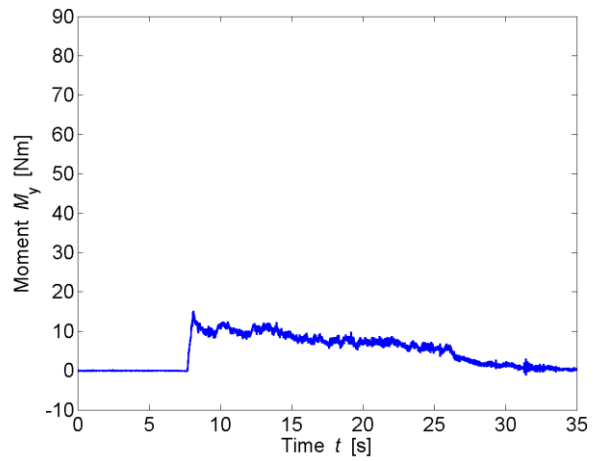
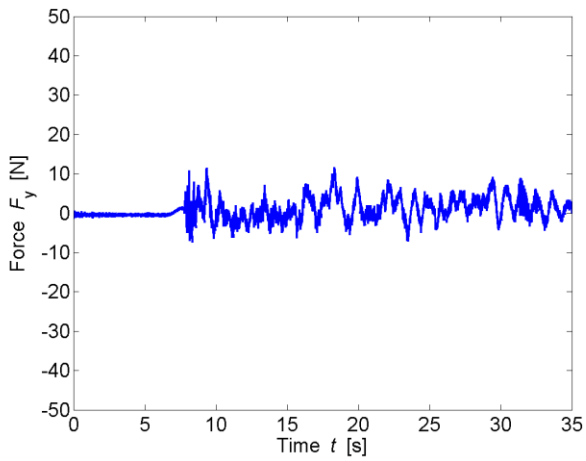
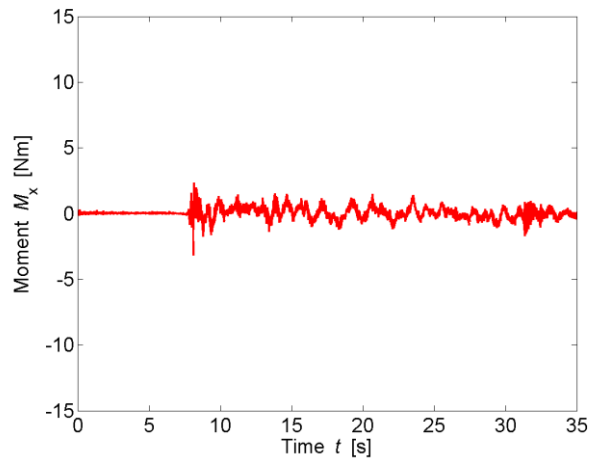
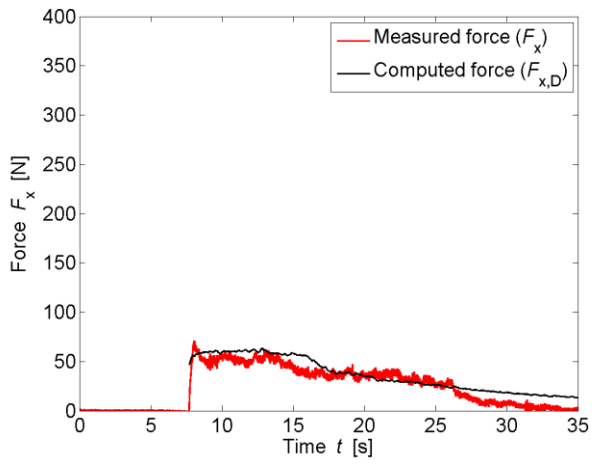


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.859	71.247	[N]
F_y	-7.435	11.702	[N]
F_z	-154.171	2.046	[N]
M_x	-3.166	2.360	[Nm]
M_y	-1.253	15.144	[Nm]
M_z	-0.205	1.393	[Nm]
Predicted Force	$F_{x,D,max}$	63.000	[N]
Initial time	t_0	7.673	[s]
Time to peak	τ_{max}	0.367	[s]
Total impulse	I_{tot}	793.055	[Ns]
Peak Impulse	I_{peak}	14.382	[Ns]
Relative impulse	I^*	0.018	[-]
Wave height at $F_{x,max}$	h_M	0.686	[-]
Resistance coefficient	C_R	1.341	[-]

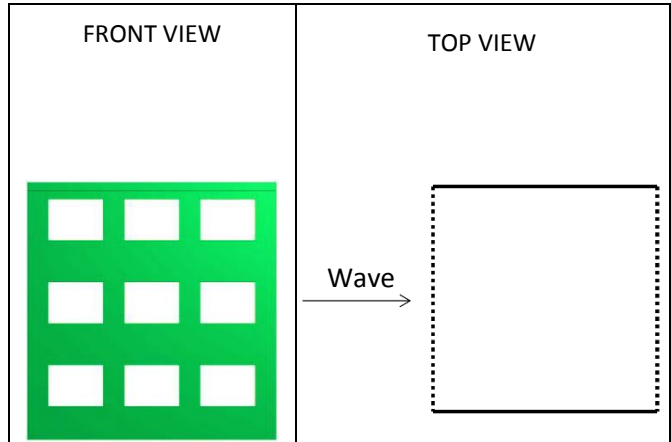


* All parameters are presented and defined at the beginning of the Appendix



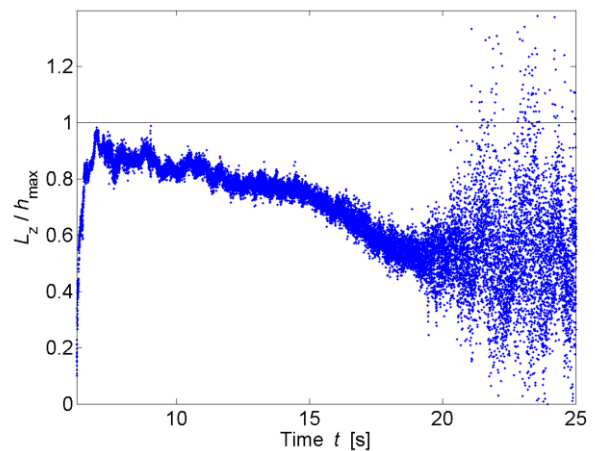
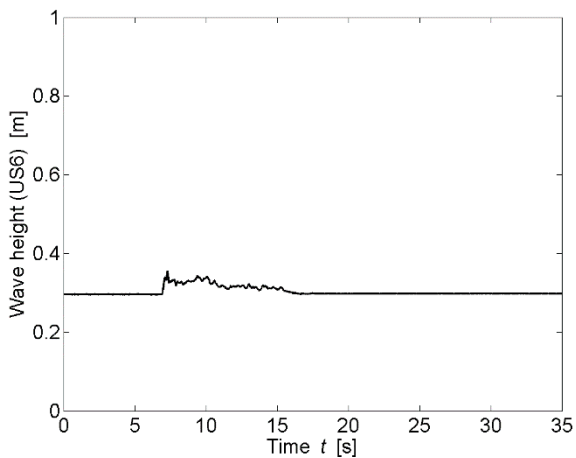
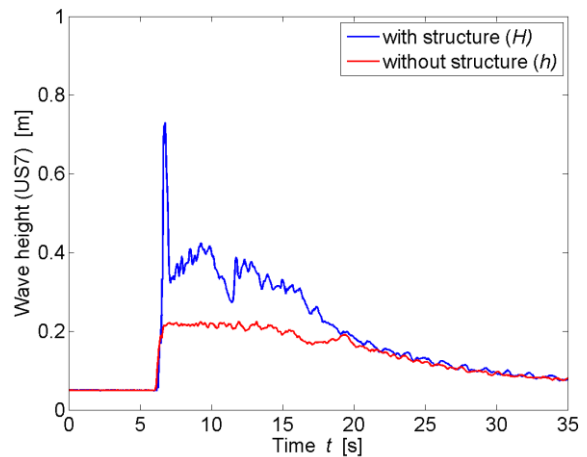
TEST PARAMETERS

Name	B34_F_WW5_2P_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	30.55	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.421	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.729	[m]

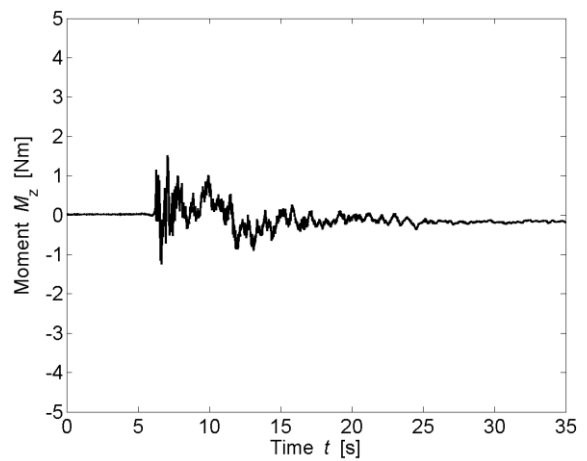
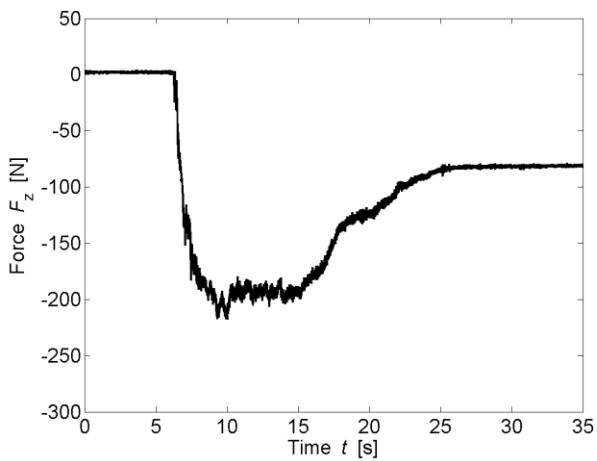
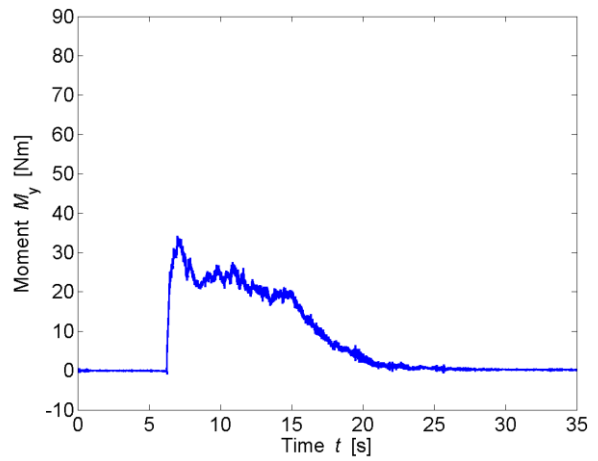
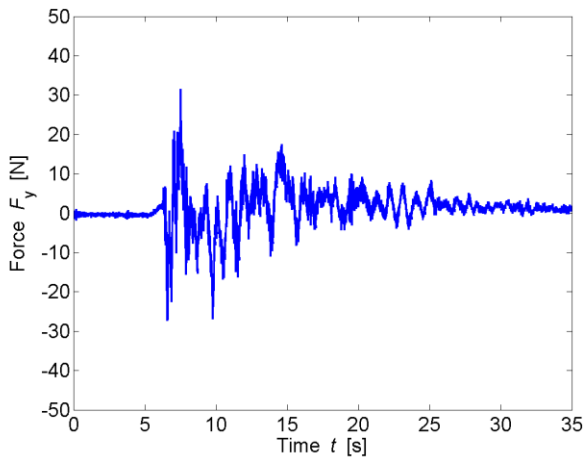
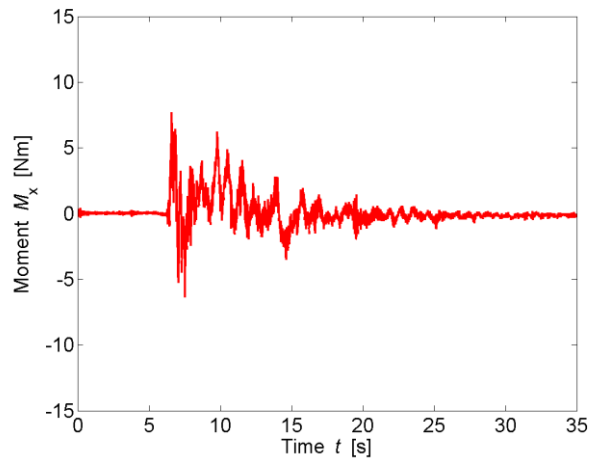
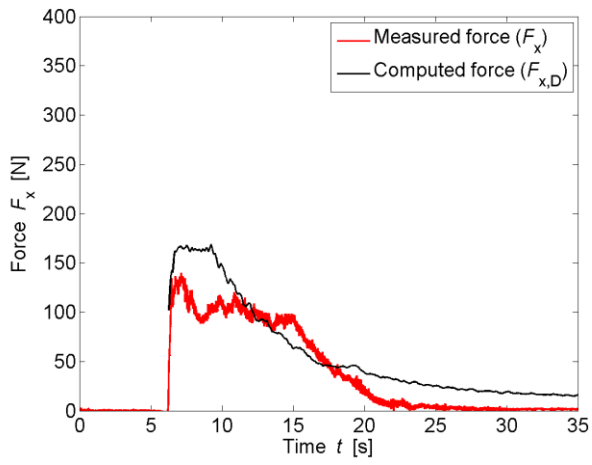


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.690	139.763	[N]
F_y	-27.356	31.475	[N]
F_z	-217.520	3.264	[N]
M_x	-6.364	7.695	[Nm]
M_y	-0.986	34.228	[Nm]
M_z	-1.247	1.525	[Nm]
Predicted Force	$F_{x,D,max}$	168.665	[N]
Initial time	t_0	6.295	[s]
Time to peak	τ_{max}	0.848	[s]
Total impulse	I_{tot}	1194.618	[Ns]
Peak Impulse	I_{peak}	99.354	[Ns]
Relative impulse	I^*	0.085	[-]
Wave height at $F_{x,max}$	h_M	0.982	[-]
Resistance coefficient	C_R	1.156	[-]

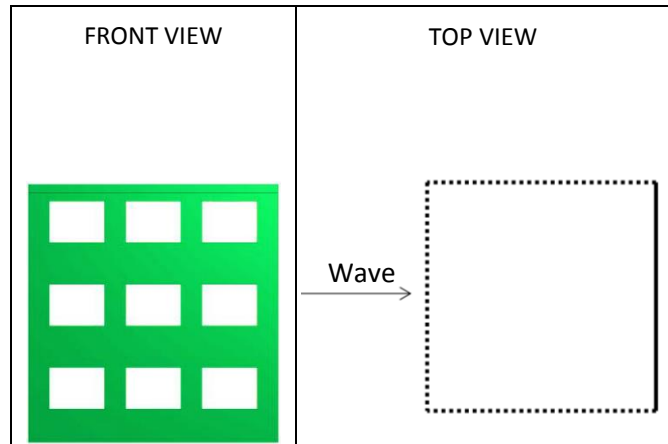


* All parameters are presented and defined at the beginning of the Appendix



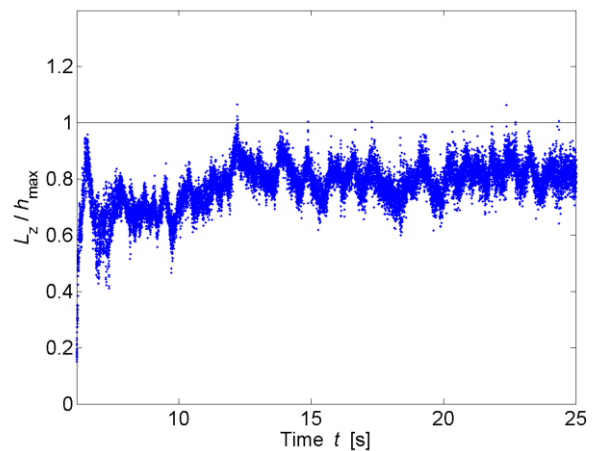
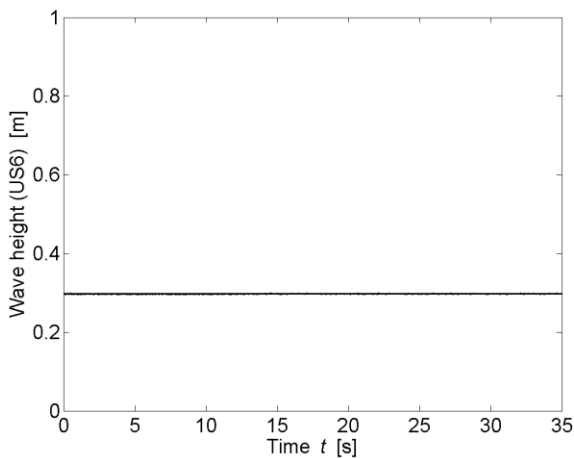
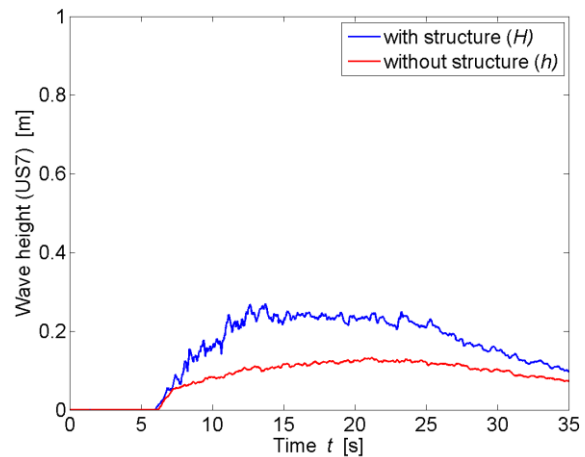
TEST PARAMETERS

Name	B34_B_WD1_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	26.62	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.335	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.269	[m]

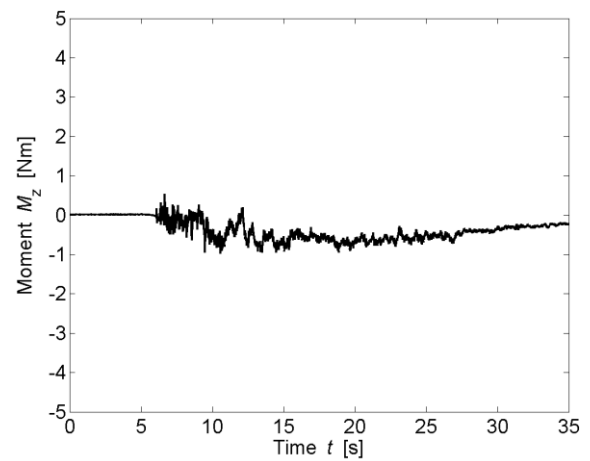
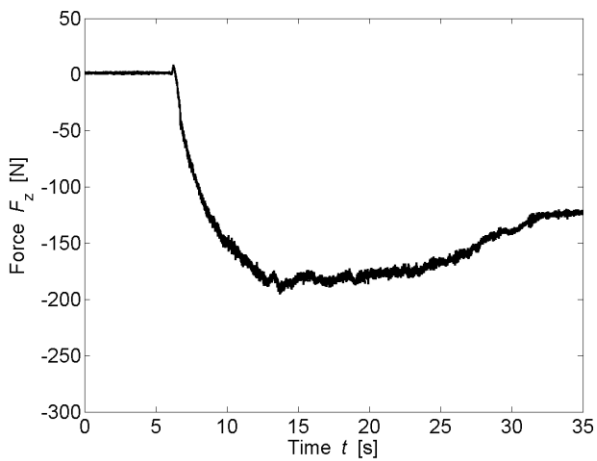
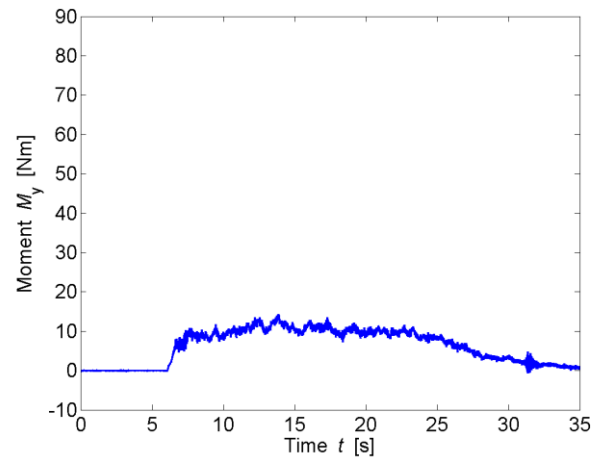
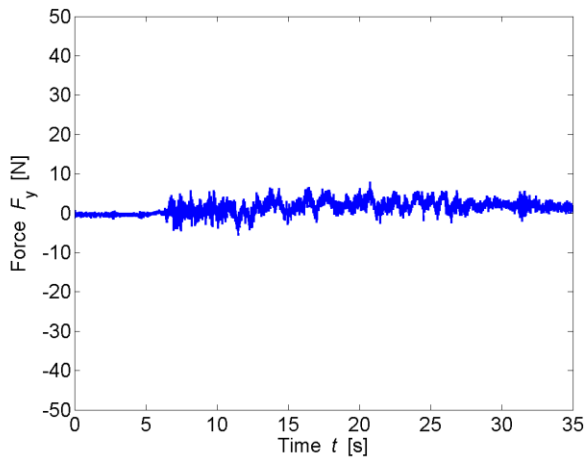
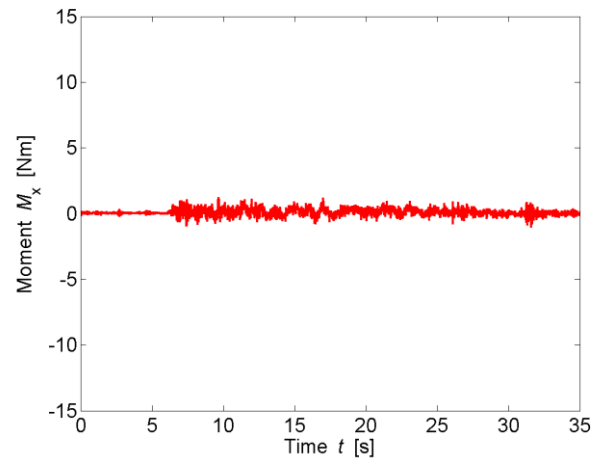
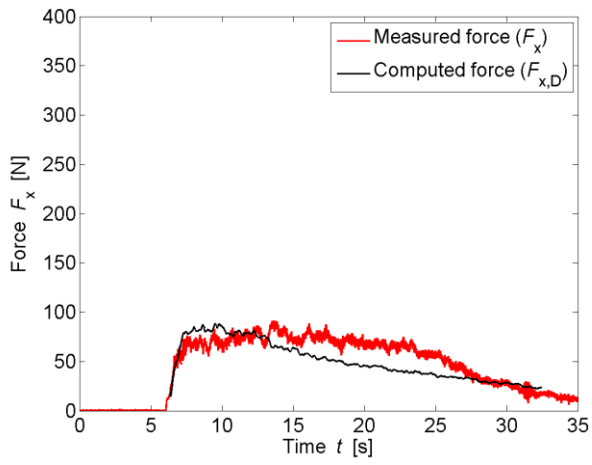


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.657	91.545	[N]
F_y	-6.334	7.958	[N]
F_z	-195.311	8.699	[N]
M_x	-1.538	1.712	[Nm]
M_y	-1.234	14.304	[Nm]
M_z	-0.976	0.541	[Nm]
Predicted Force	$F_{x,D,max}$	88.318	[N]
Initial time	t_0	6.186	[s]
Time to peak	τ_{max}	7.330	[s]
Total impulse	I_{tot}	1362.821	[Ns]
Peak Impulse	I_{peak}	492.354	[Ns]
Relative impulse	I^*	0.350	[-]
Wave height at $F_{x,max}$	h_M	0.743	[-]
Resistance coefficient	C_R	2.708	[-]

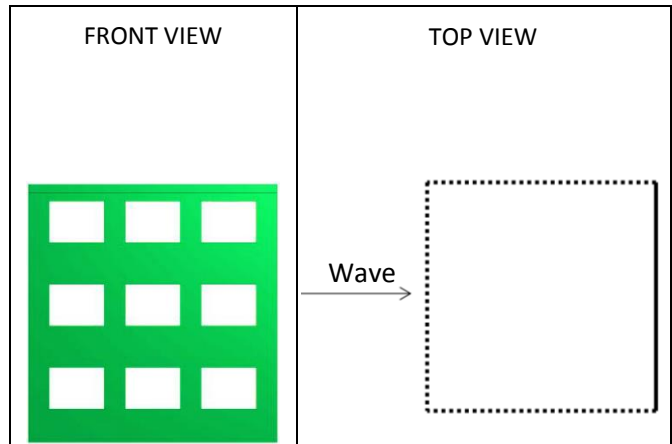


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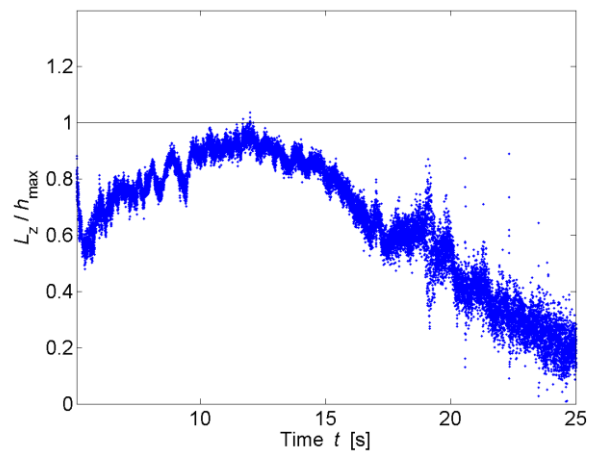
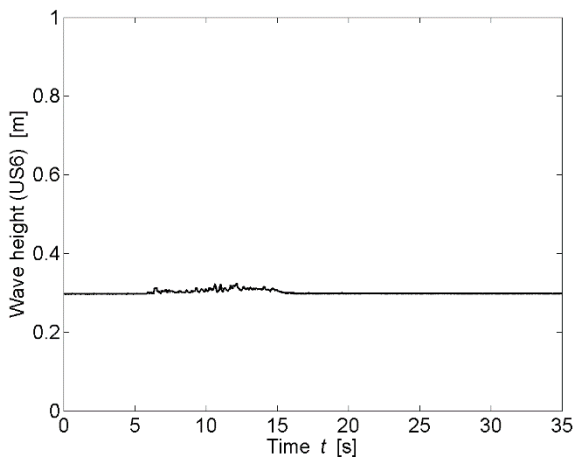
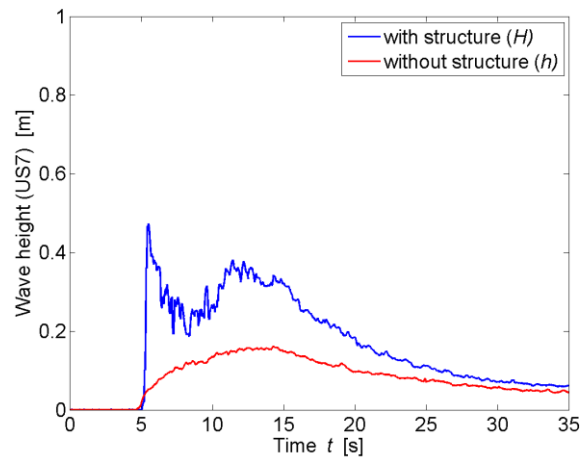
TEST PARAMETERS

Name	B34_B_WD2_1		
Repetitions	3		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	33.36	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.058	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.464	[m]

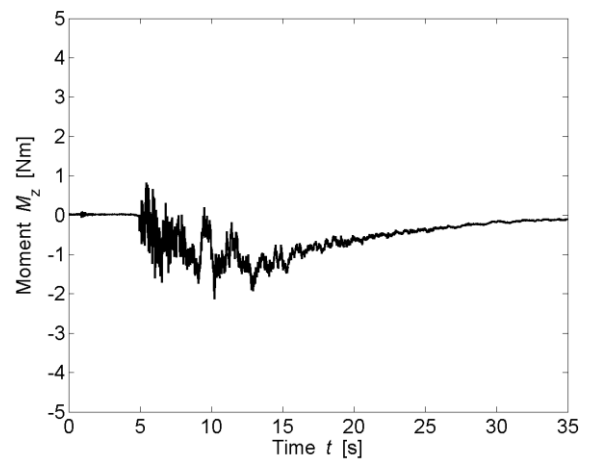
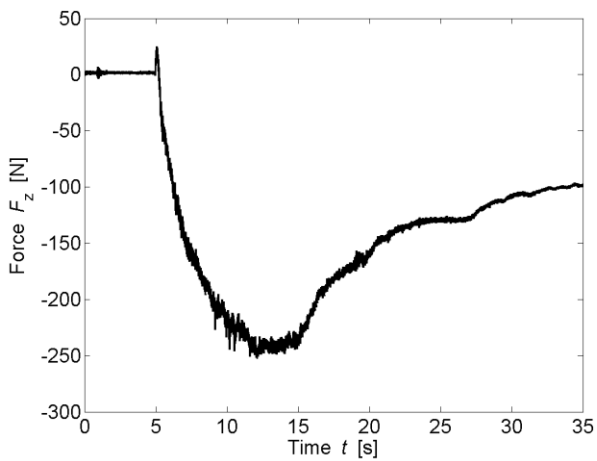
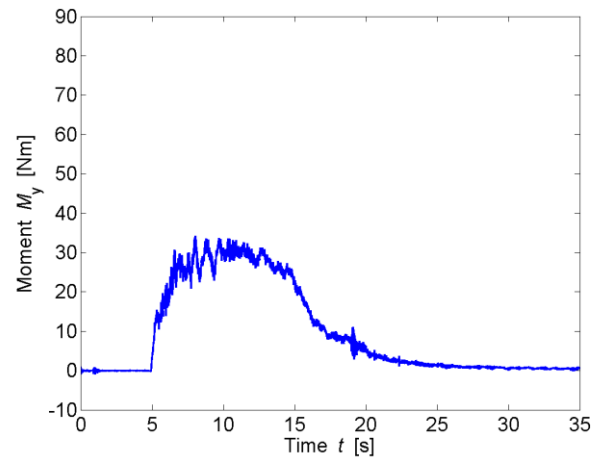
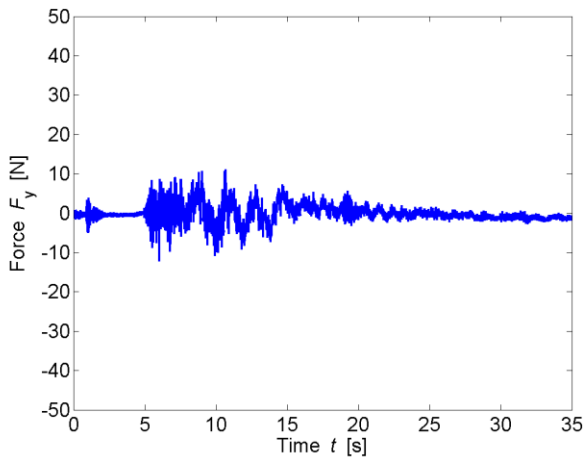
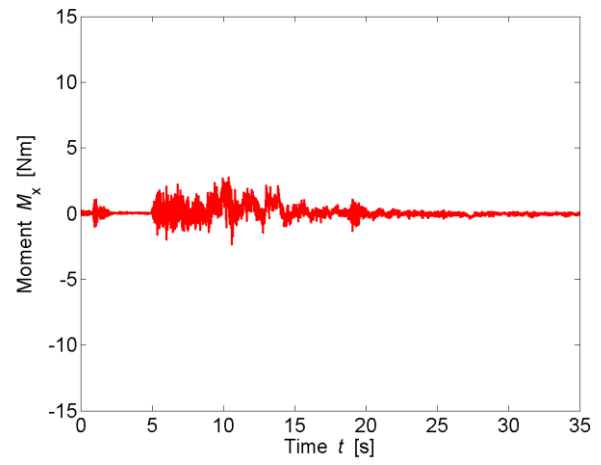
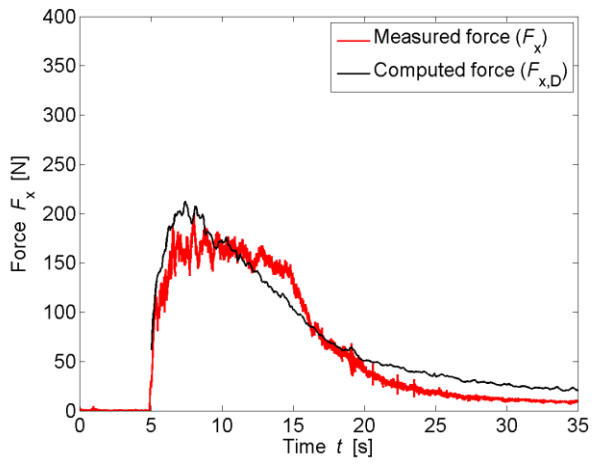


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.270	199.111	[N]
F_y	-12.134	11.041	[N]
F_z	-252.475	22.662	[N]
M_x	-2.406	2.819	[Nm]
M_y	-1.002	34.199	[Nm]
M_z	-2.138	0.818	[Nm]
Predicted Force	$F_{x,D,max}$	212.377	[N]
Initial time	t_0	5.111	[s]
Time to peak	τ_{max}	2.919	[s]
Total impulse	I_{tot}	2087.815	[Ns]
Peak Impulse	I_{peak}	410.361	[Ns]
Relative impulse	I^*	0.211	[-]
Wave height at $F_{x,max}$	h_M	0.688	[-]
Resistance coefficient	C_R	1.883	[-]

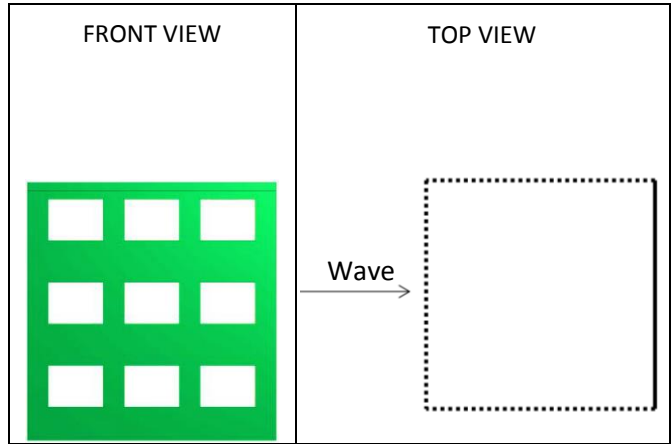


* All parameters are presented and defined at the beginning of the Appendix



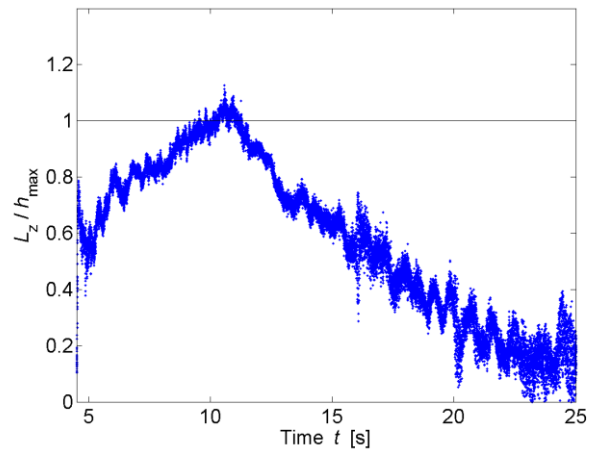
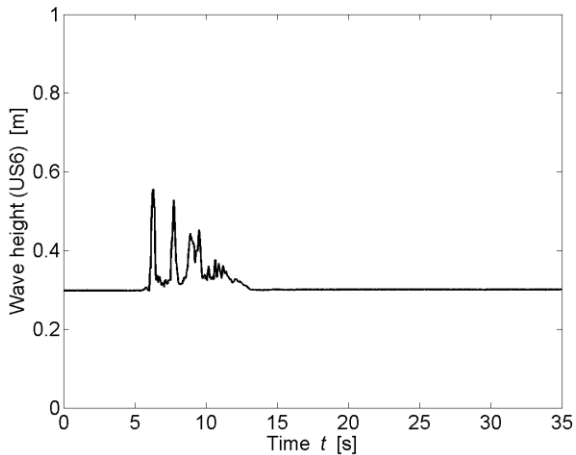
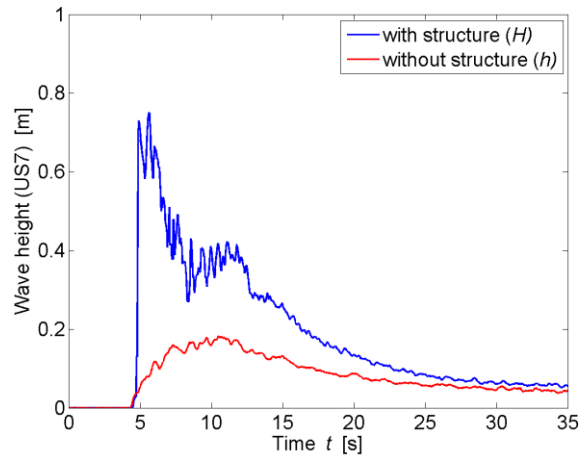
TEST PARAMETERS

Name	B34_B_WD3_2		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	37.62	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.566	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.751	[m]

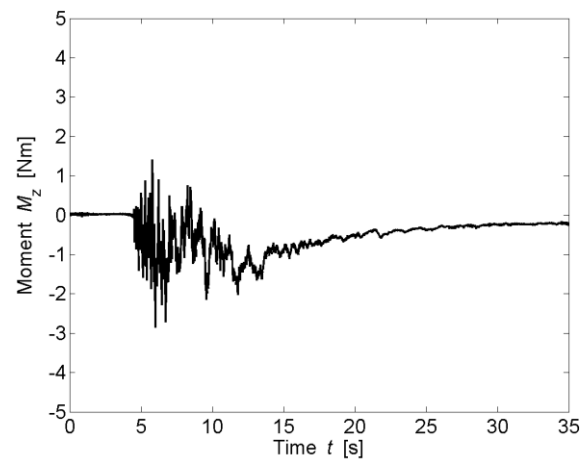
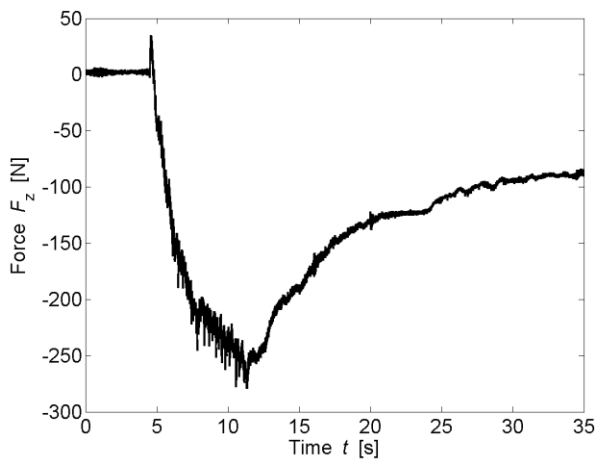
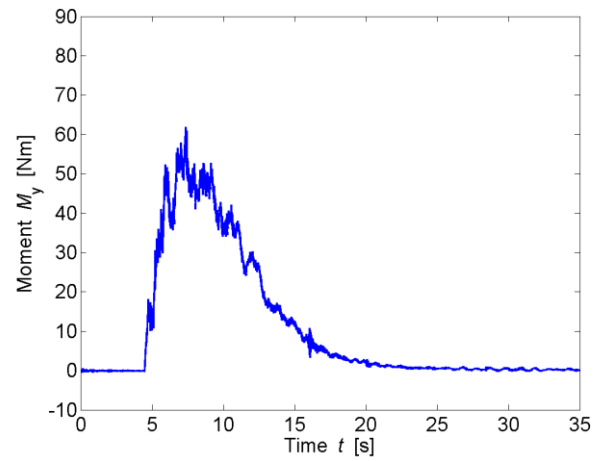
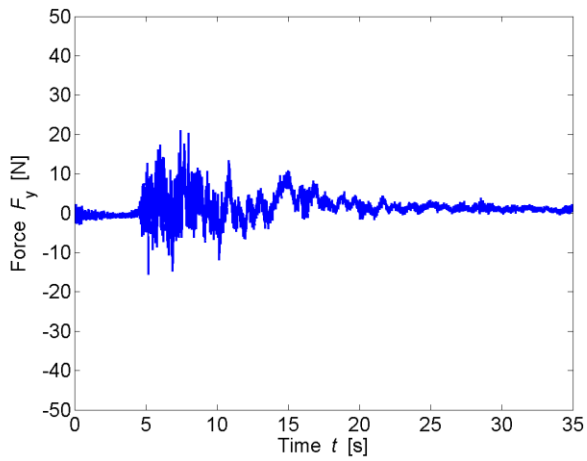
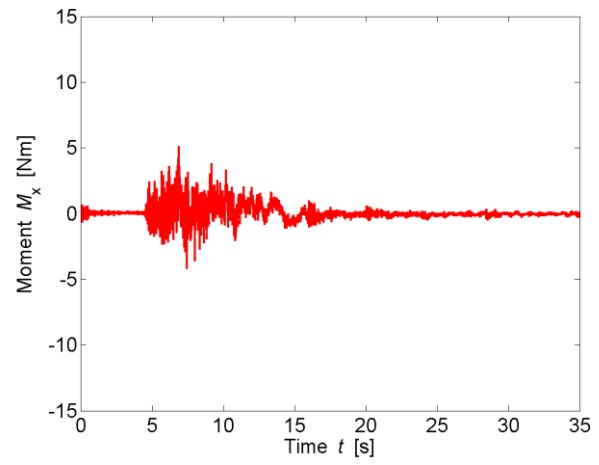
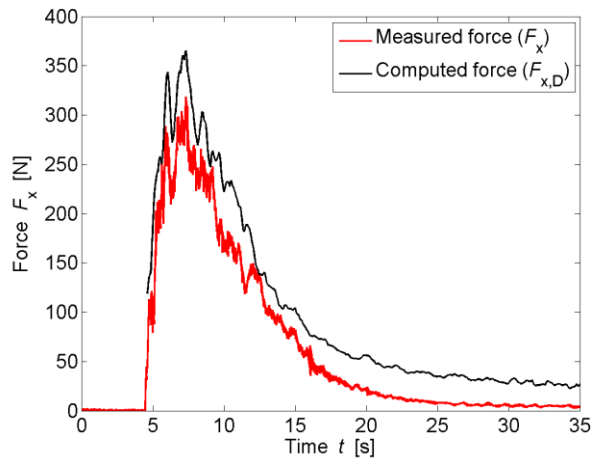


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.331	318.575	[N]
F_y	-15.556	21.005	[N]
F_z	-279.480	35.204	[N]
M_x	-4.196	5.143	[Nm]
M_y	-0.868	61.899	[Nm]
M_z	-2.853	1.405	[Nm]
Predicted Force	$F_{x,D,max}$	365.348	[N]
Initial time	t_0	4.565	[s]
Time to peak	τ_{max}	2.758	[s]
Total impulse	I_{tot}	2110.161	[Ns]
Peak Impulse	I_{peak}	578.084	[Ns]
Relative impulse	I^*	0.292	[-]
Wave height at $F_{x,max}$	h_M	0.882	[-]
Resistance coefficient	C_R	1.638	[-]

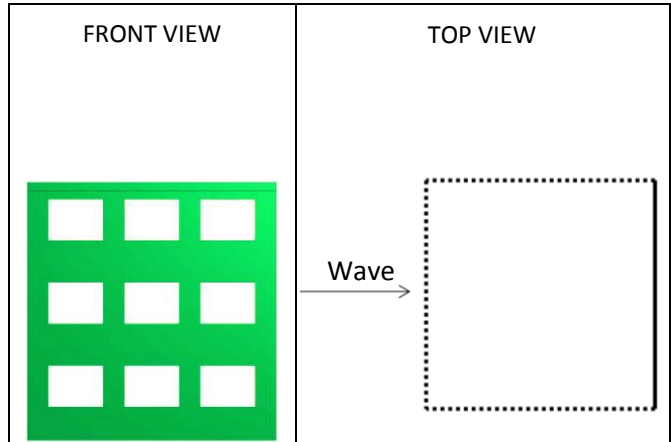


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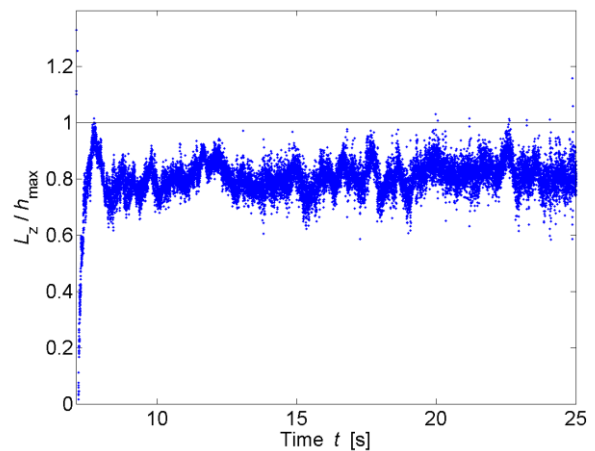
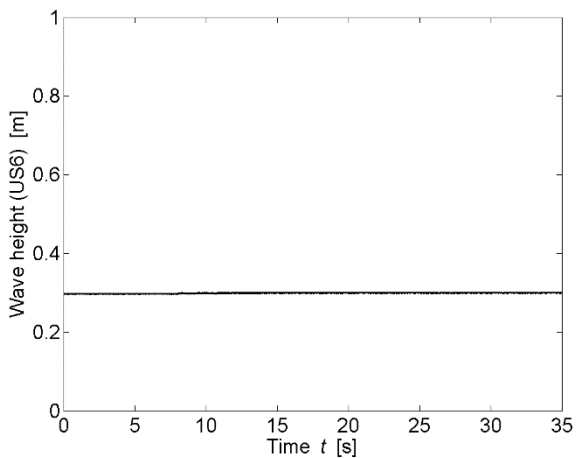
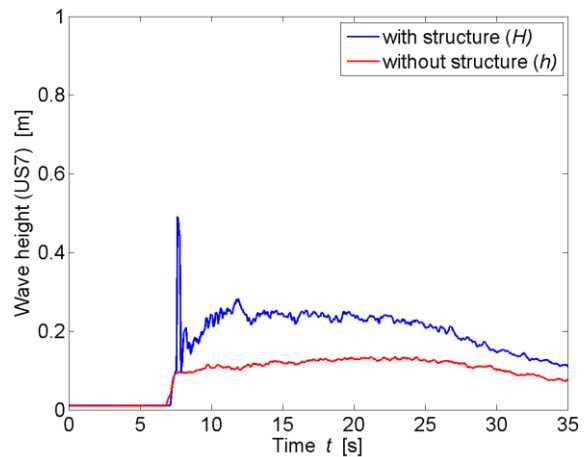
TEST PARAMETERS

Name	B34_B_WW1_1P_2		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	27.08	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.131	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.491	[m]

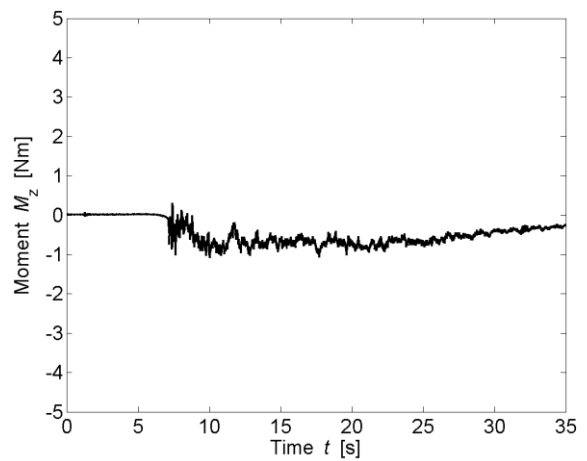
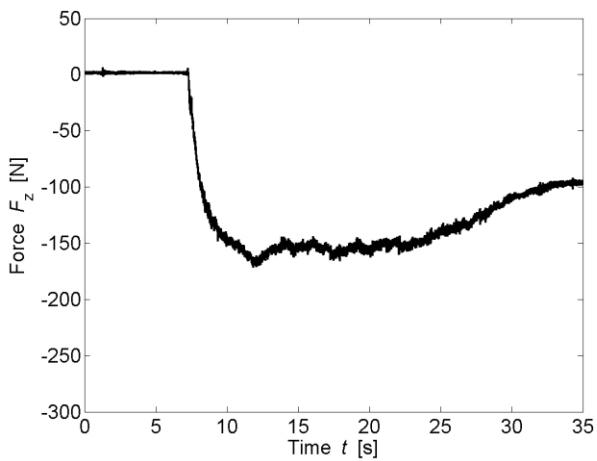
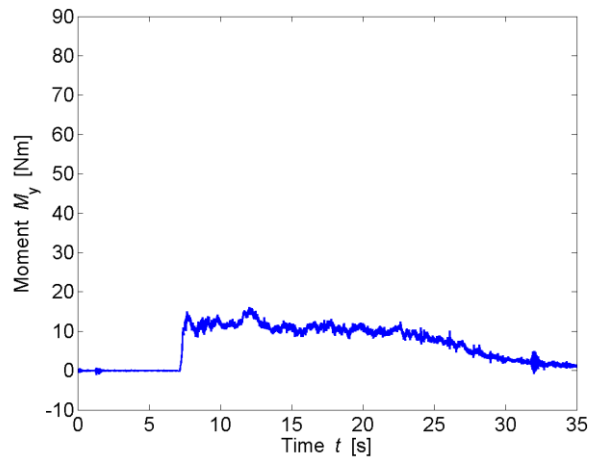
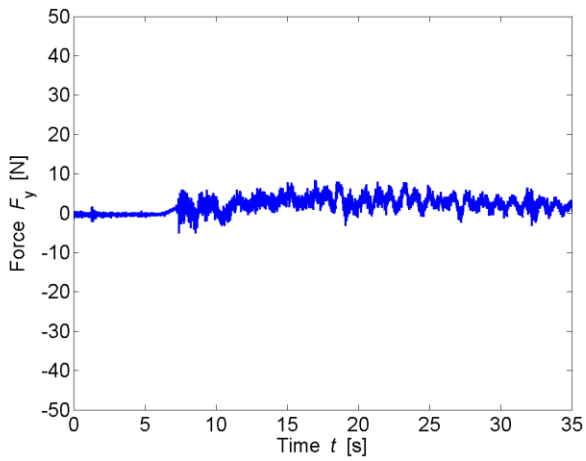
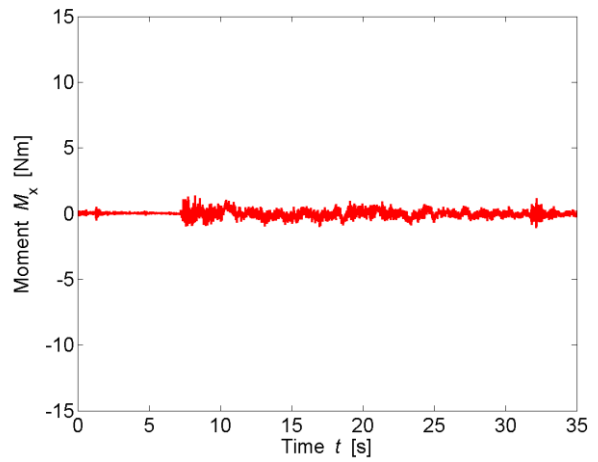
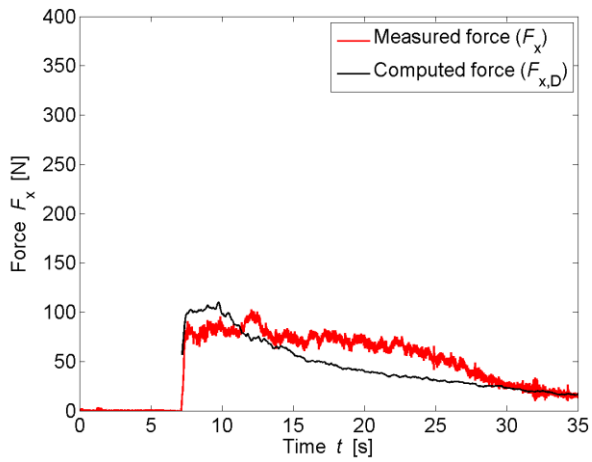


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.270	102.577	[N]
F_y	-5.111	8.423	[N]
F_z	-171.508	5.888	[N]
M_x	-1.168	1.352	[Nm]
M_y	-1.467	16.075	[Nm]
M_z	-1.080	0.302	[Nm]
Predicted Force	$F_{x,D,max}$	109.967	[N]
Initial time	t_0	7.162	[s]
Time to peak	τ_{max}	4.887	[s]
Total impulse	I_{tot}	1420.060	[Ns]
Peak Impulse	I_{peak}	387.395	[Ns]
Relative impulse	I^*	0.266	[-]
Wave height at $F_{x,max}$	h_M	0.751	[-]
Resistance coefficient	C_R	1.647	[-]

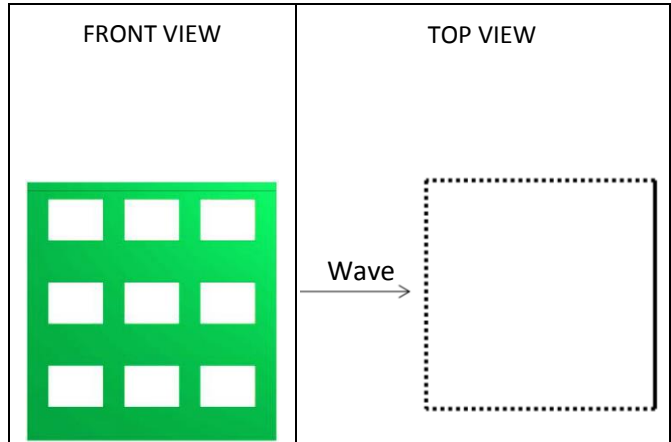


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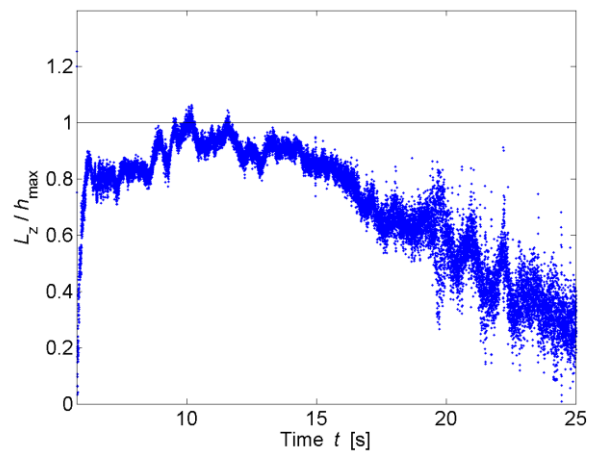
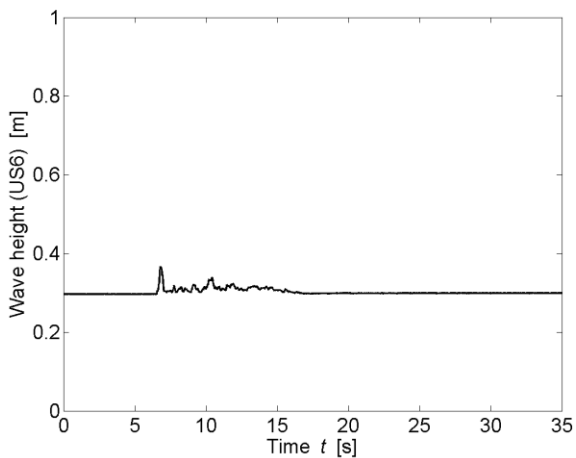
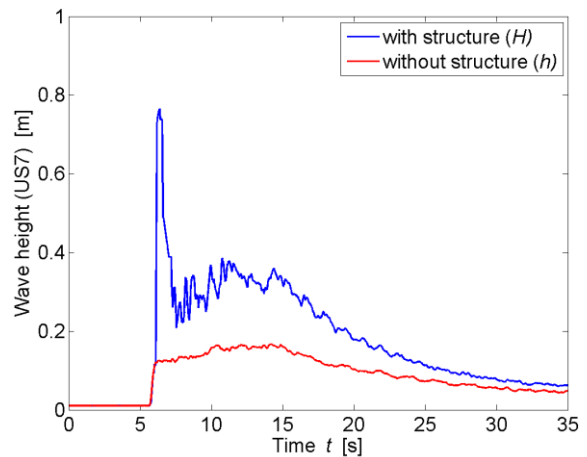
TEST PARAMETERS

Name	B34_B_WW1_2P_1		
Repetitions	1		
Configuration	Impervious back (F)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	34.76	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.709	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.766	[m]

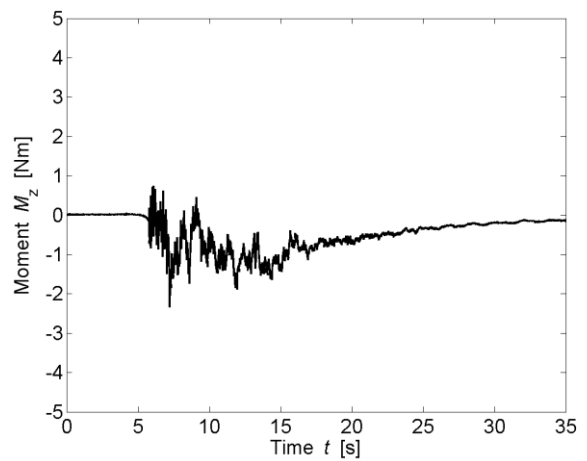
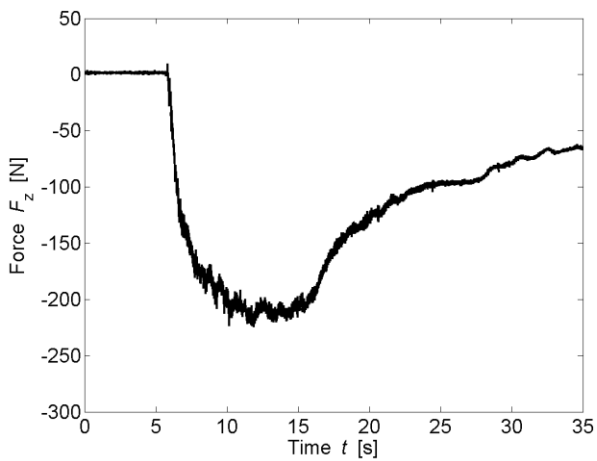
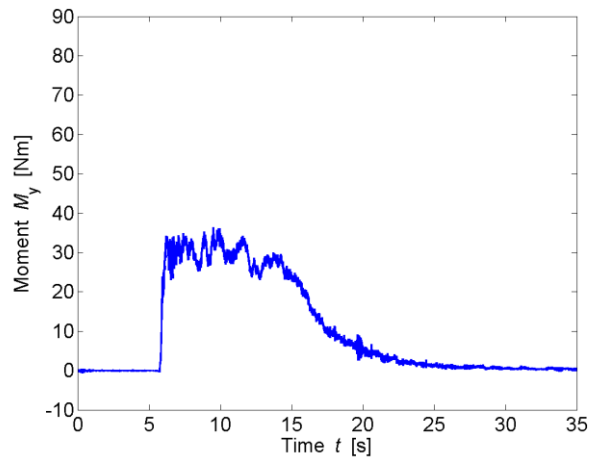
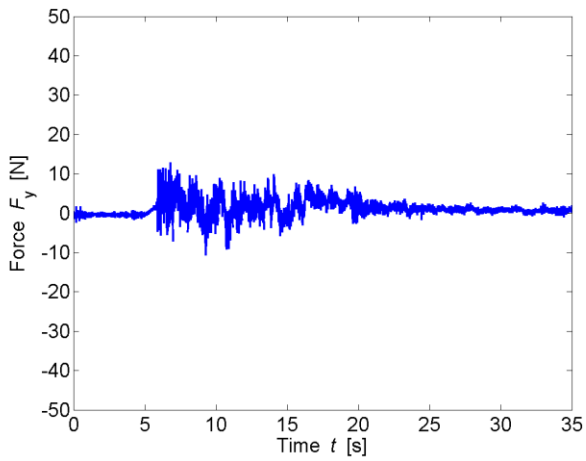
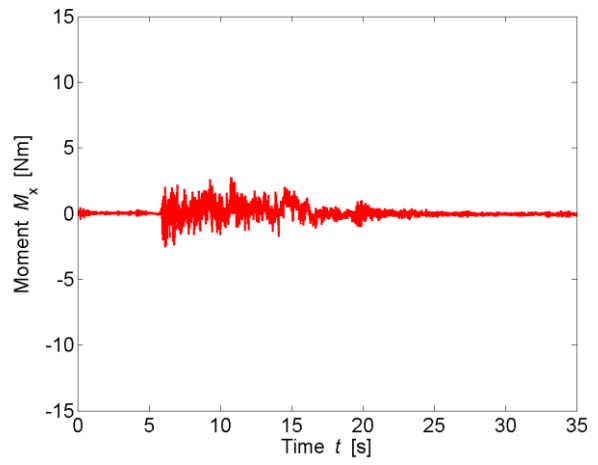
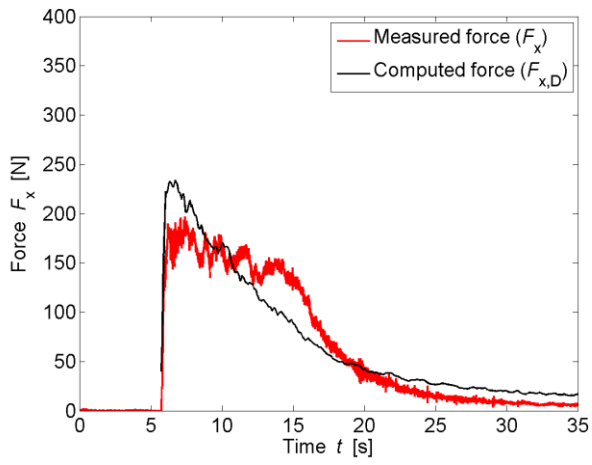


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.738	196.885	[N]
F_y	-10.666	12.852	[N]
F_z	-224.549	9.636	[N]
M_x	-2.565	2.751	[Nm]
M_y	-0.952	36.352	[Nm]
M_z	-2.339	0.749	[Nm]
Predicted Force	$F_{x,D,max}$	233.827	[N]
Initial time	t_0	5.789	[s]
Time to peak	τ_{max}	1.611	[s]
Total impulse	I_{tot}	1993.752	[Ns]
Peak Impulse	I_{peak}	257.576	[Ns]
Relative impulse	I^*	0.137	[-]
Wave height at $F_{x,max}$	h_M	0.735	[-]
Resistance coefficient	C_R	1.731	[-]

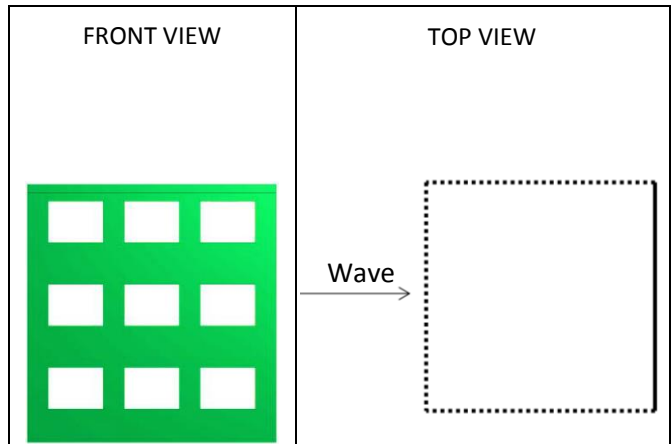


* All parameters are presented and defined at the beginning of the Appendix



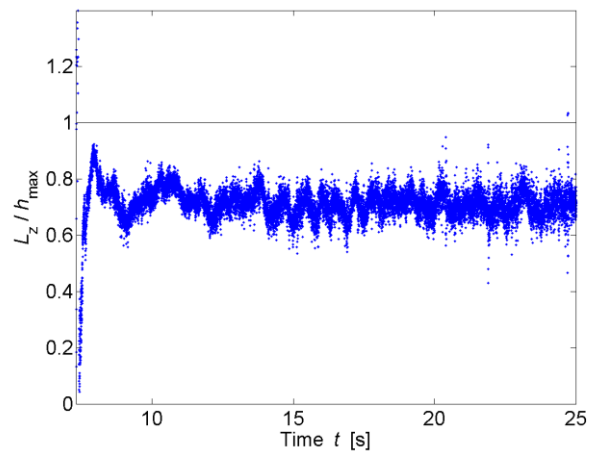
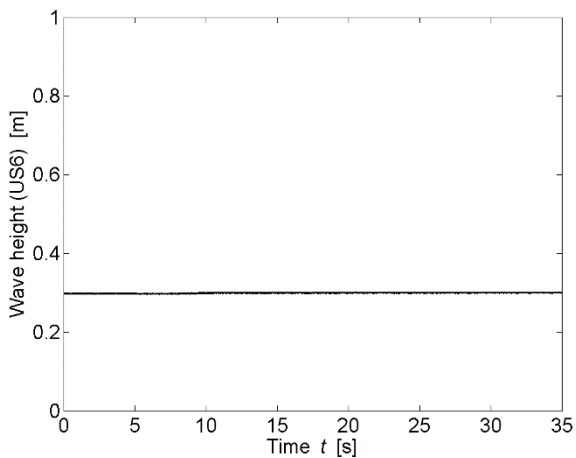
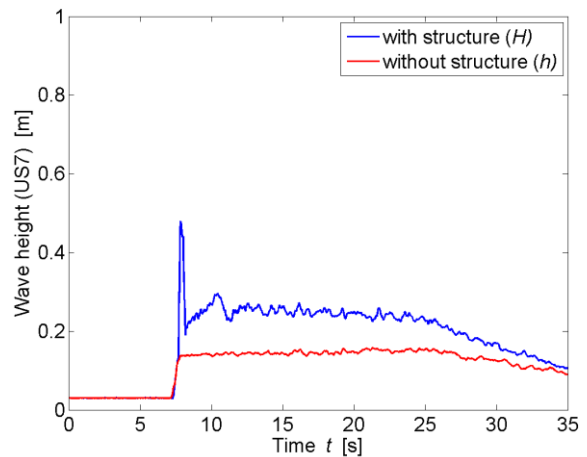
TEST PARAMETERS

Name	B34_B_WW3_1P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	32.66	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.986	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.479	[m]

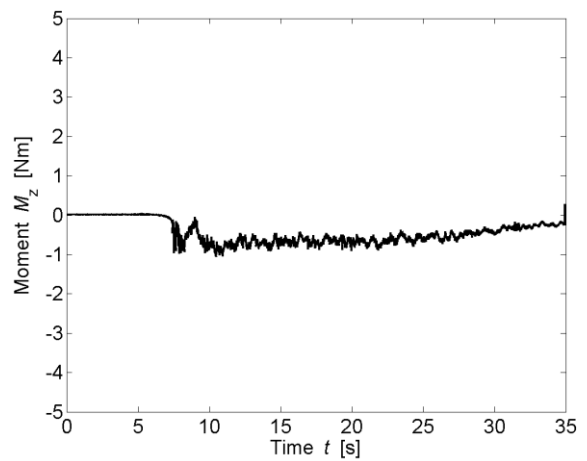
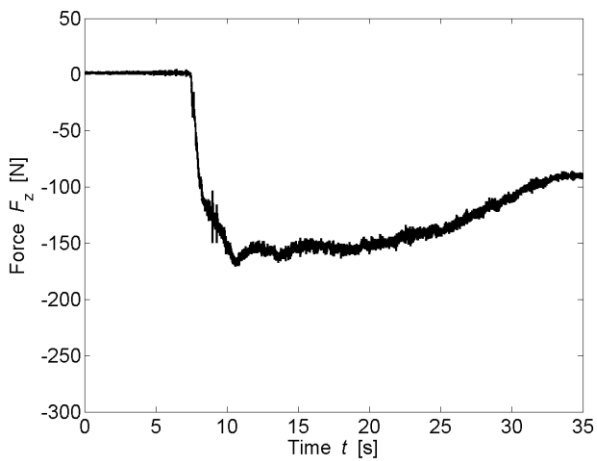
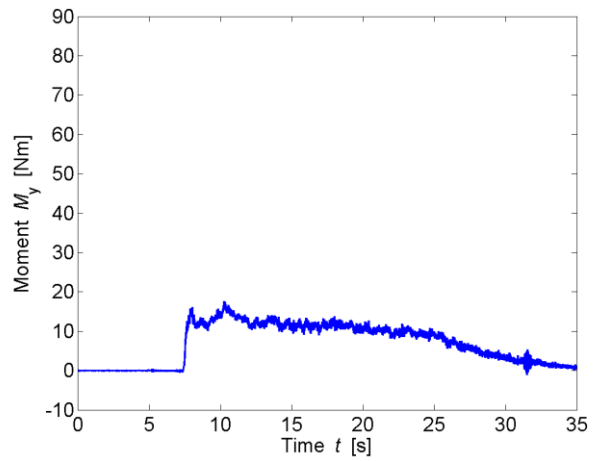
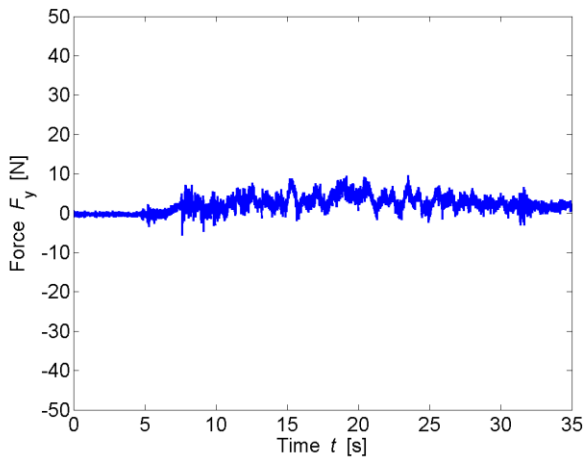
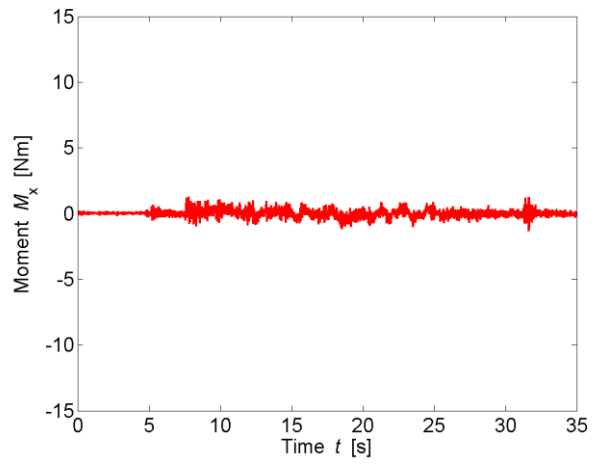
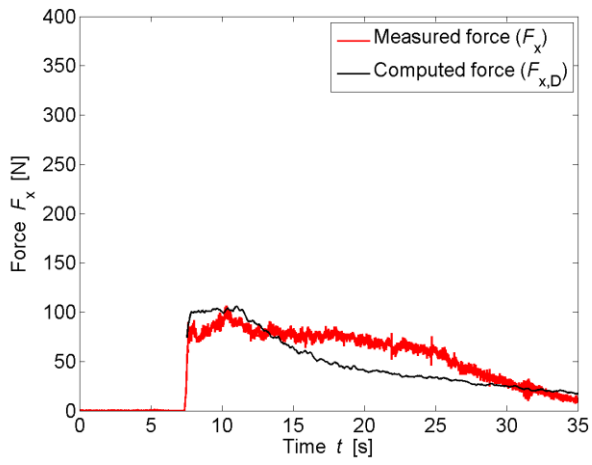


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.077	106.690	[N]
F_y	-5.624	9.622	[N]
F_z	-170.571	1.858	[N]
M_x	-1.332	1.297	[Nm]
M_y	-1.075	17.543	[Nm]
M_z	-1.051	0.284	[Nm]
Predicted Force	$F_{x,D,max}$	105.981	[N]
Initial time	t_0	7.378	[s]
Time to peak	τ_{max}	2.948	[s]
Total impulse	I_{tot}	1450.589	[Ns]
Peak Impulse	I_{peak}	232.506	[Ns]
Relative impulse	I^*	0.156	[-]
Wave height at $F_{x,max}$	h_M	0.893	[-]
Resistance coefficient	C_R	1.981	[-]

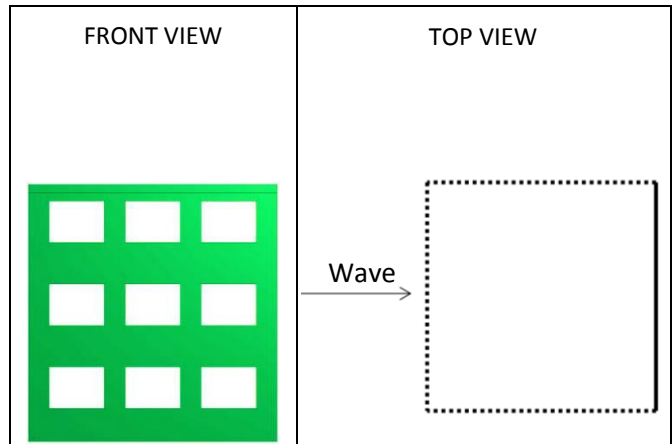


* All parameters are presented and defined at the beginning of the Appendix



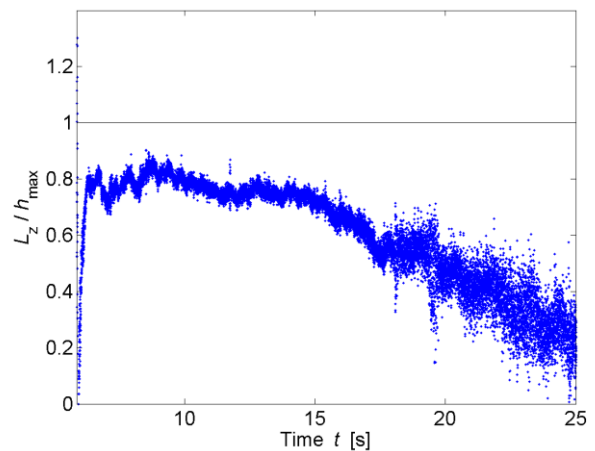
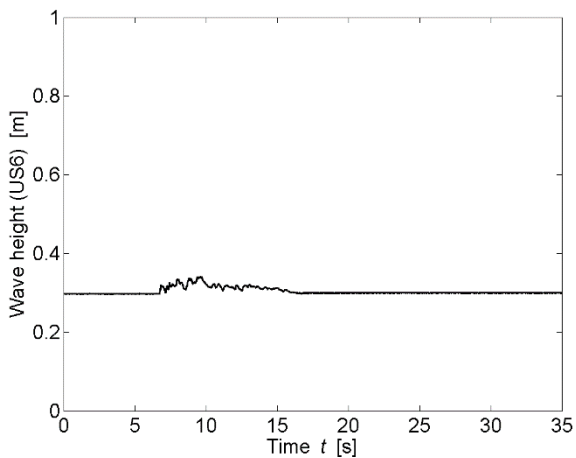
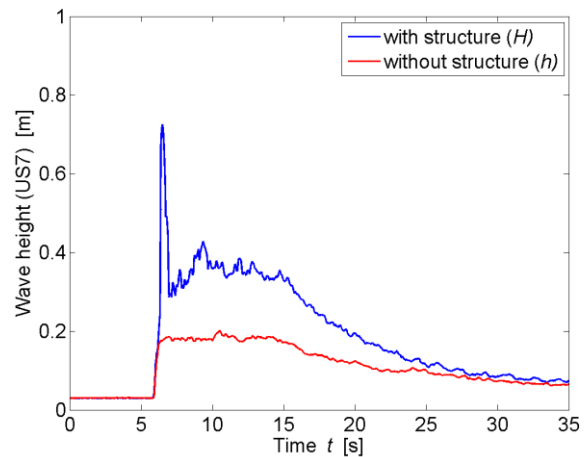
TEST PARAMETERS

Name	B34_B_WW3_2P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	34.49	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.536	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.726	[m]

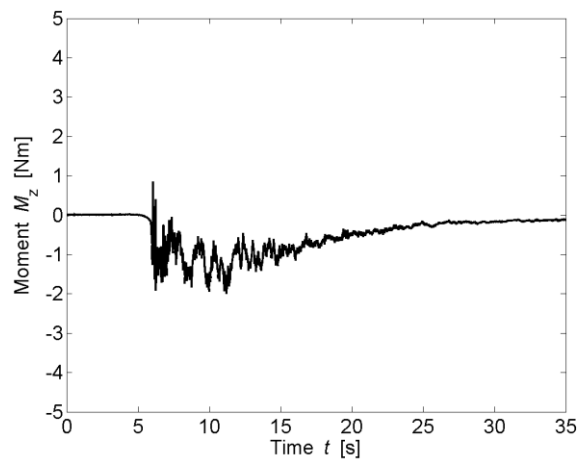
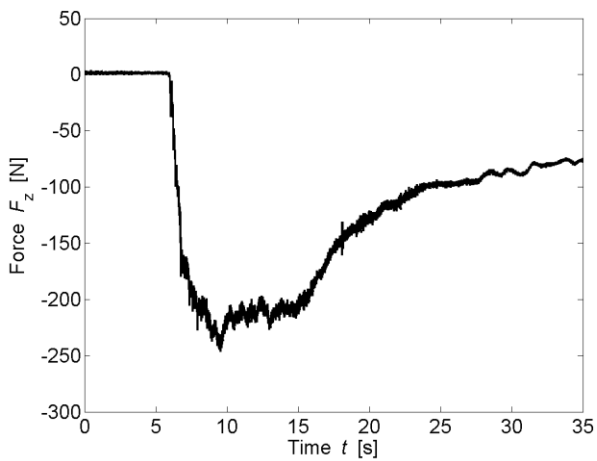
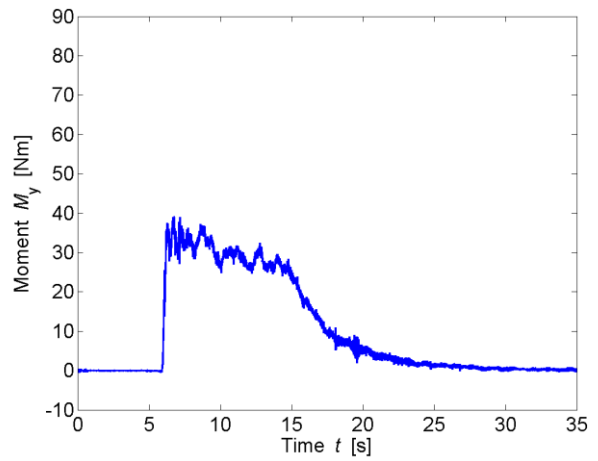
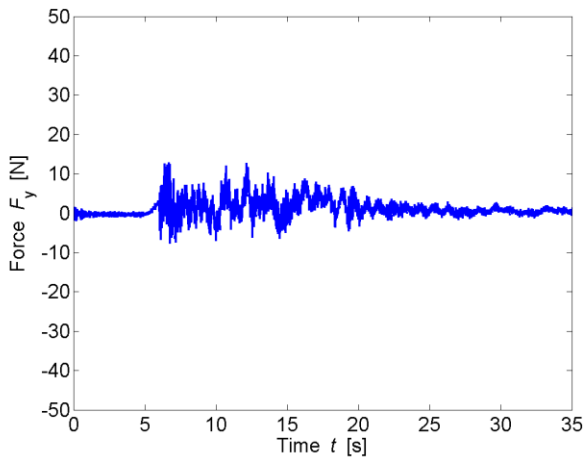
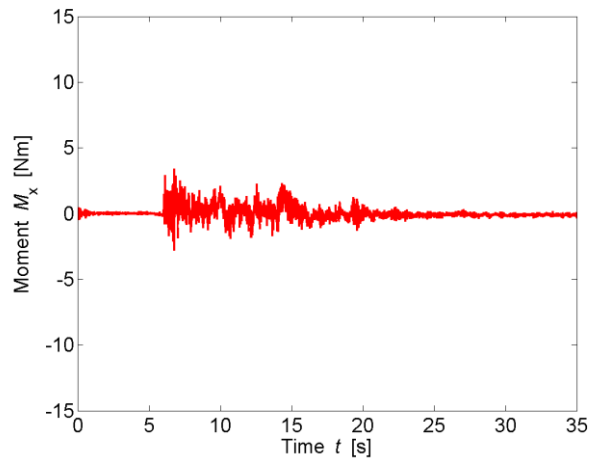
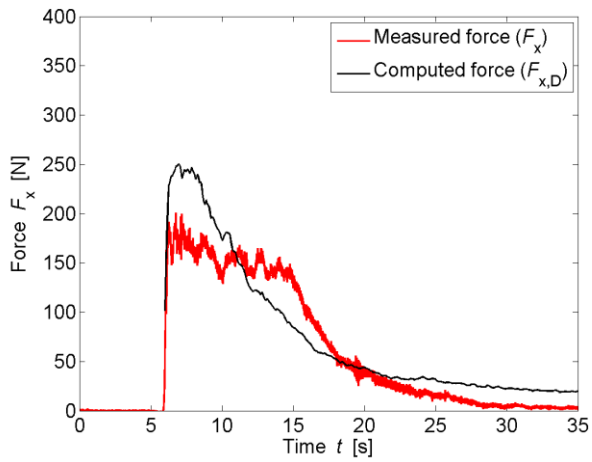


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.504	201.022	[N]
F_y	-7.705	12.828	[N]
F_z	-246.477	2.046	[N]
M_x	-2.783	3.418	[Nm]
M_y	-1.229	39.010	[Nm]
M_z	-1.991	0.853	[Nm]
Predicted Force	$F_{x,D,max}$	250.164	[N]
Initial time	t_0	5.905	[s]
Time to peak	τ_{max}	0.854	[s]
Total impulse	I_{tot}	1836.249	[Ns]
Peak Impulse	I_{peak}	122.704	[Ns]
Relative impulse	I^*	0.067	[-]
Wave height at $F_{x,max}$	h_M	0.911	[-]
Resistance coefficient	C_R	1.492	[-]

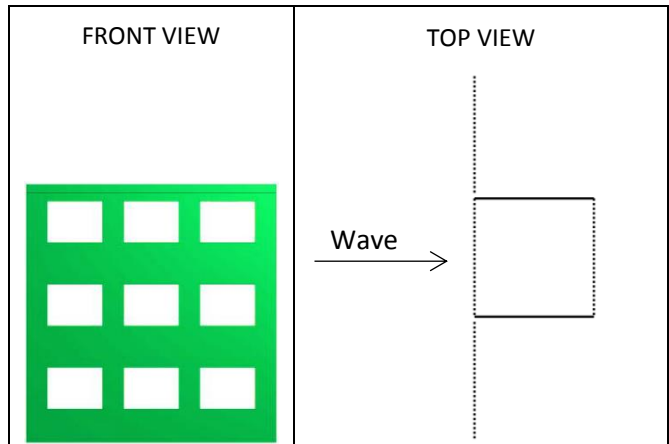


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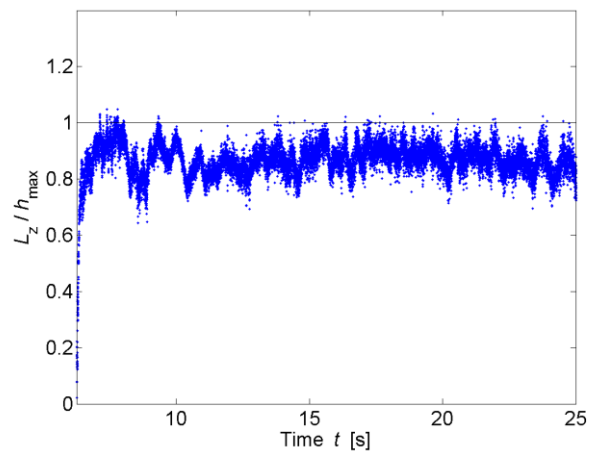
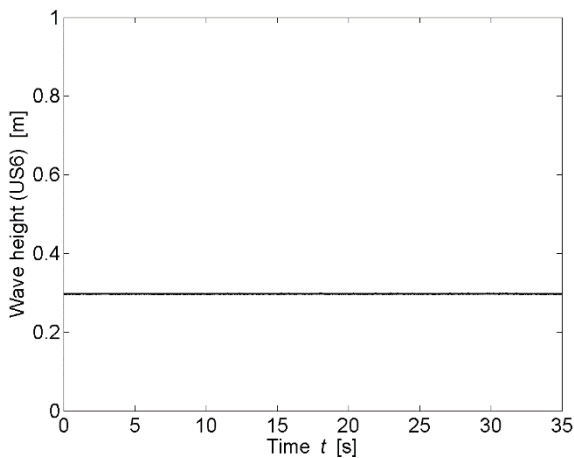
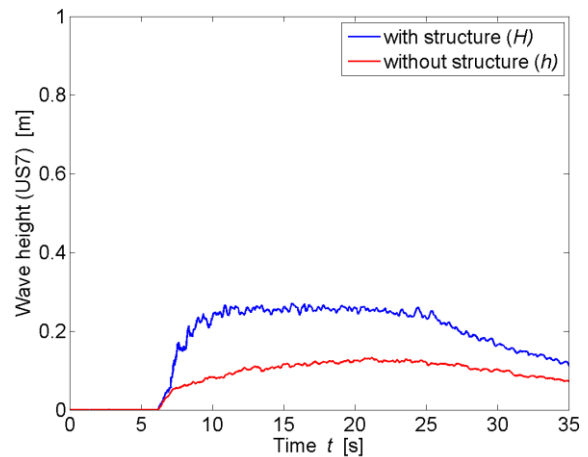
TEST PARAMETERS

Name	B34_S_WD1_3		
Repetitions	3		
Configuration	With side building (S)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	26.62	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.338	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.271	[m]

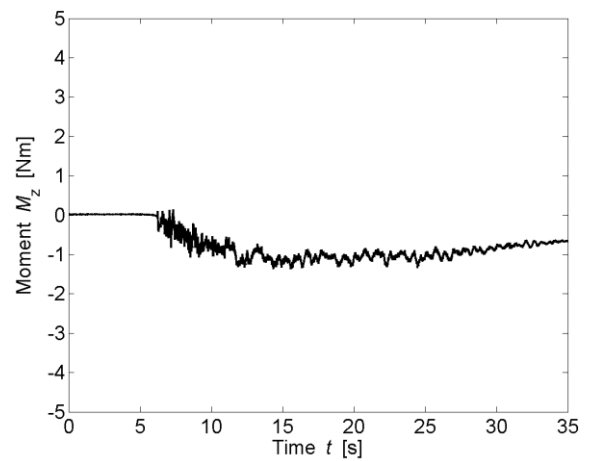
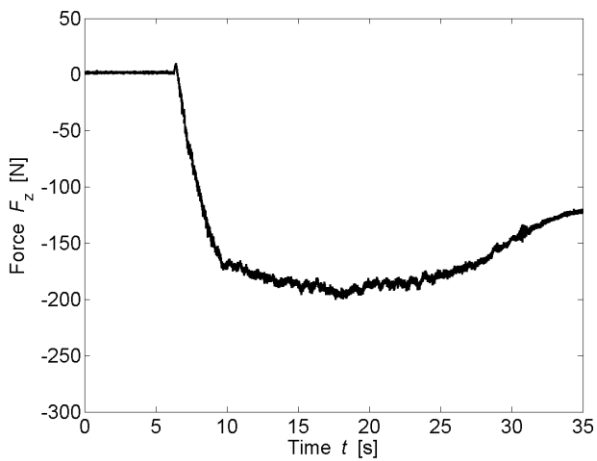
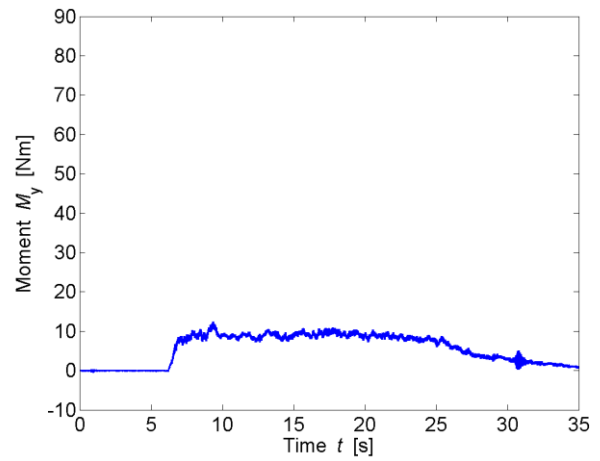
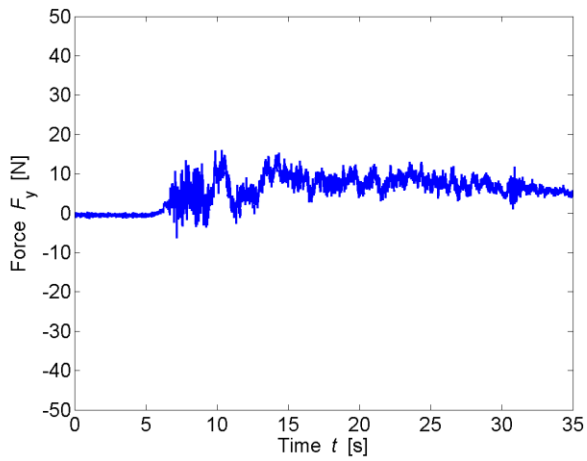
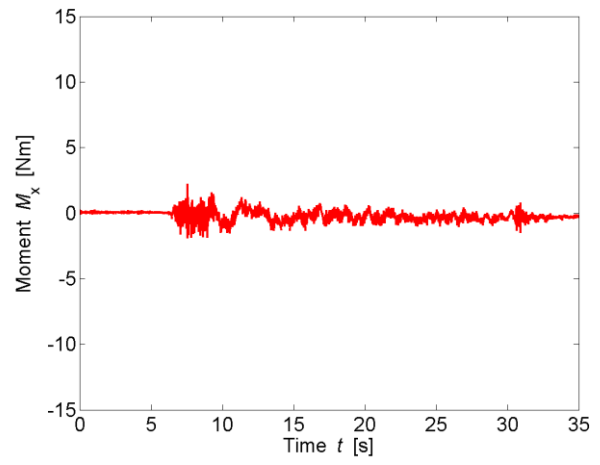
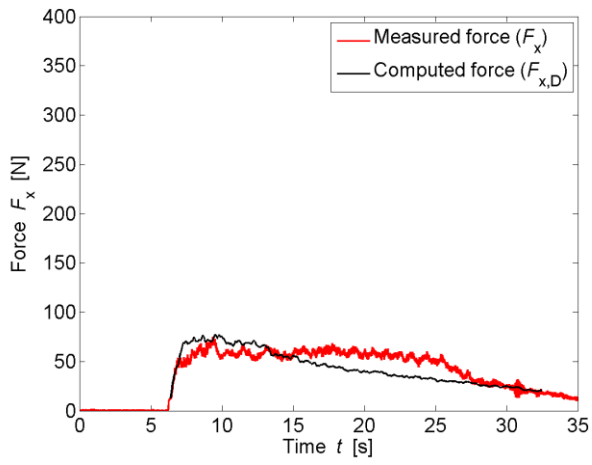


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.069	74.903	[N]
F_y	-6.310	16.074	[N]
F_z	-200.163	10.190	[N]
M_x	-1.915	2.244	[Nm]
M_y	-0.656	12.417	[Nm]
M_z	-1.373	0.146	[Nm]
Predicted Force	$F_{x,D,max}$	77.448	[N]
Initial time	t_0	6.314	[s]
Time to peak	τ_{max}	3.029	[s]
Total impulse	I_{tot}	1130.664	[Ns]
Peak Impulse	I_{peak}	155.761	[Ns]
Relative impulse	I^*	0.133	[-]
Wave height at $F_{x,max}$	h_M	0.546	[-]
Resistance coefficient	C_R	1.727	[-]

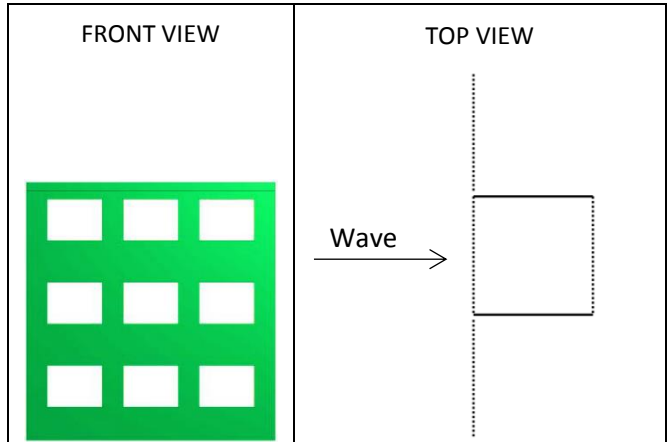


* All parameters are presented and defined at the beginning of the Appendix



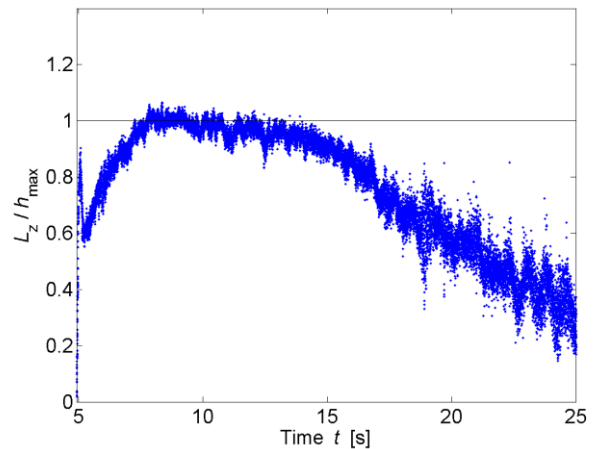
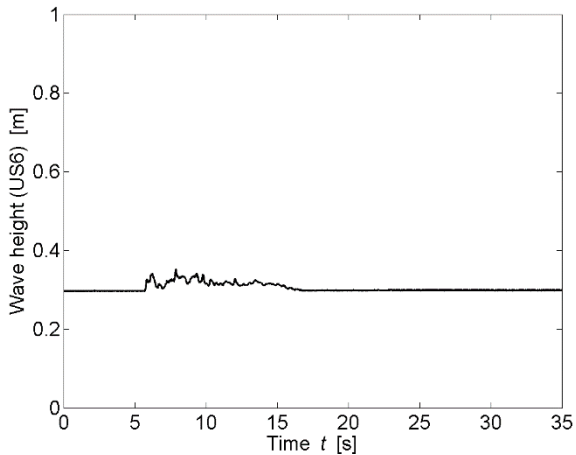
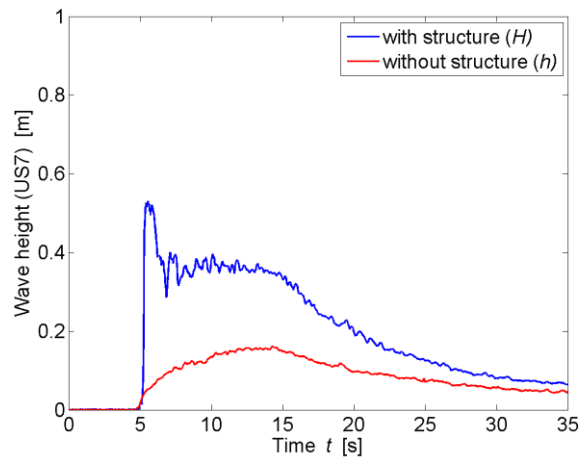
TEST PARAMETERS

Name	B34_S_WD2_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	33.36	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.084	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.530	[m]

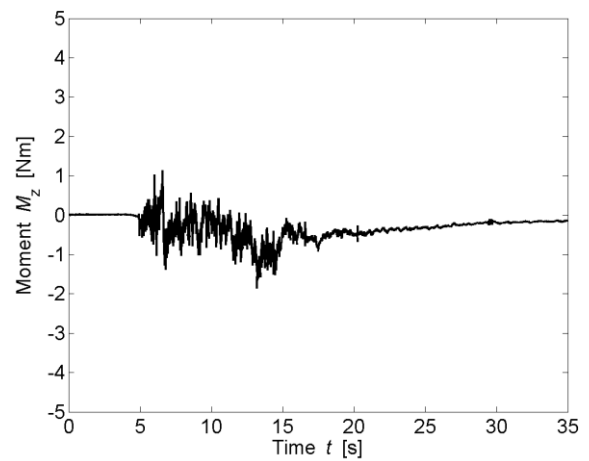
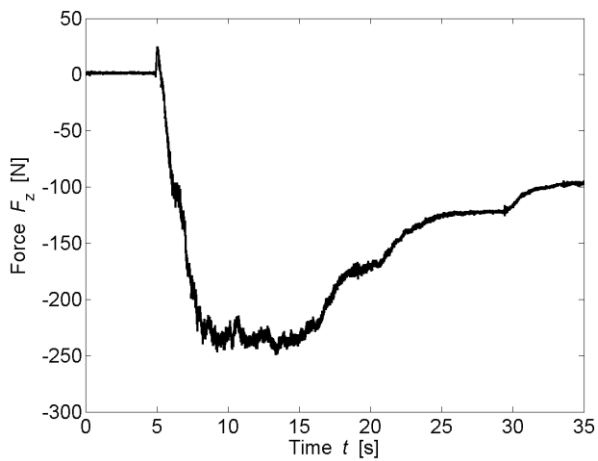
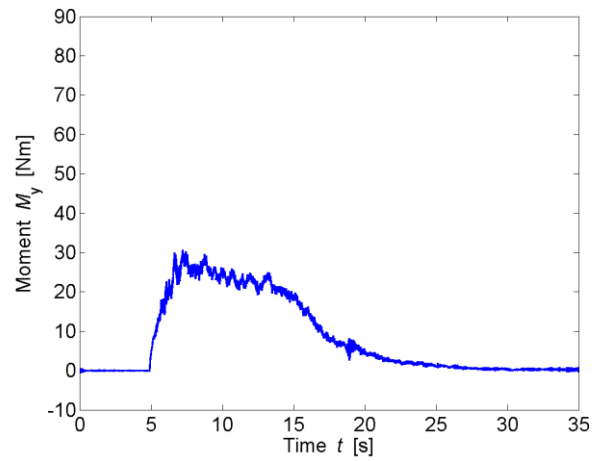
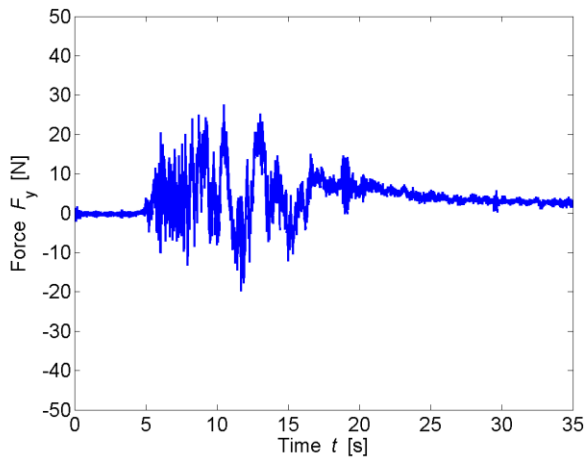
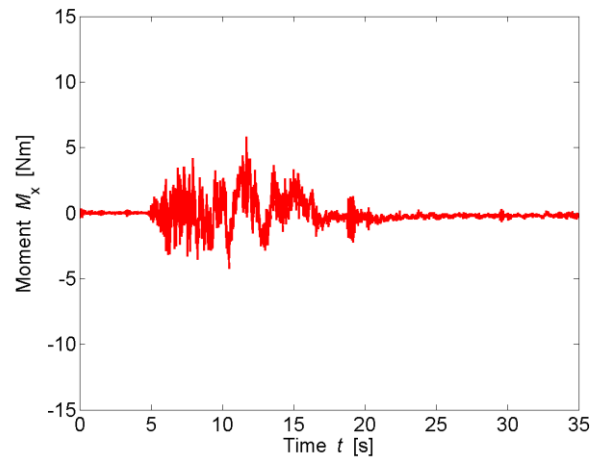
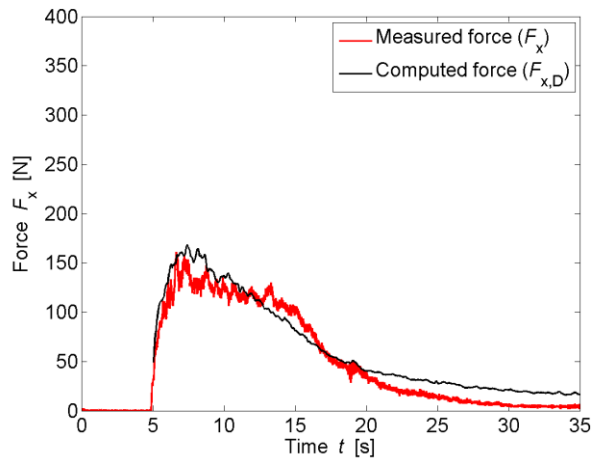


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.625	160.836	[N]
F_y	-19.867	27.609	[N]
F_z	-249.195	24.818	[N]
M_x	-4.235	5.818	[Nm]
M_y	-1.446	30.586	[Nm]
M_z	-1.863	1.132	[Nm]
Predicted Force	$F_{x,D,max}$	169.120	[N]
Initial time	t_0	4.971	[s]
Time to peak	τ_{max}	1.688	[s]
Total impulse	I_{tot}	1626.443	[Ns]
Peak Impulse	I_{peak}	160.113	[Ns]
Relative impulse	I^*	0.105	[-]
Wave height at $F_{x,max}$	h_M	0.532	[-]
Resistance coefficient	C_R	1.570	[-]

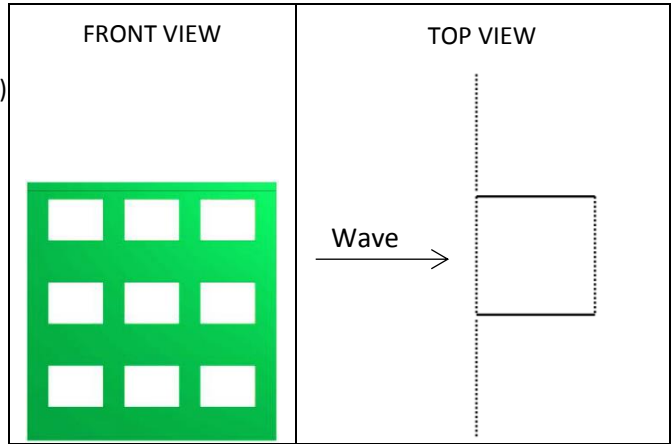


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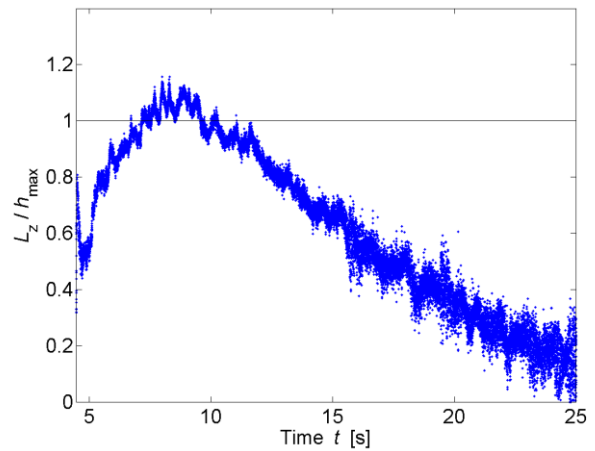
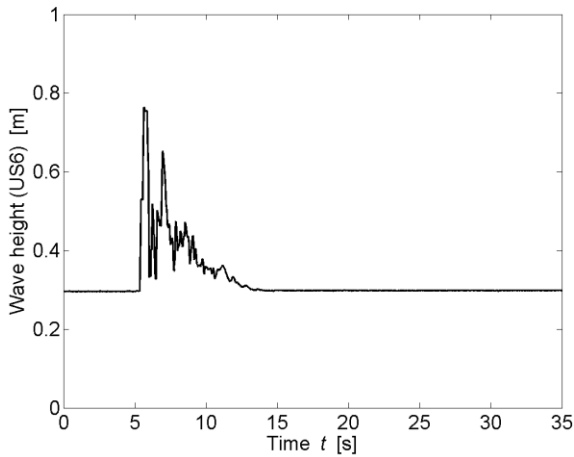
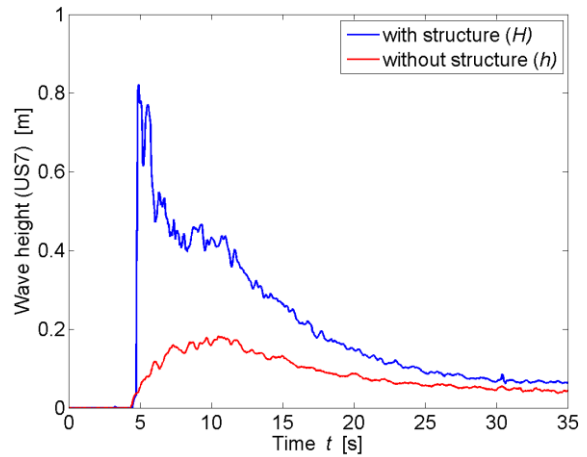
TEST PARAMETERS

Name	B34_S_WD3_1		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	37.62	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.536	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.820	[m]

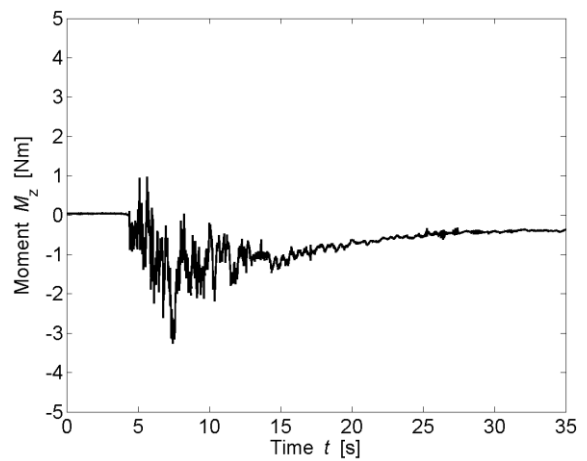
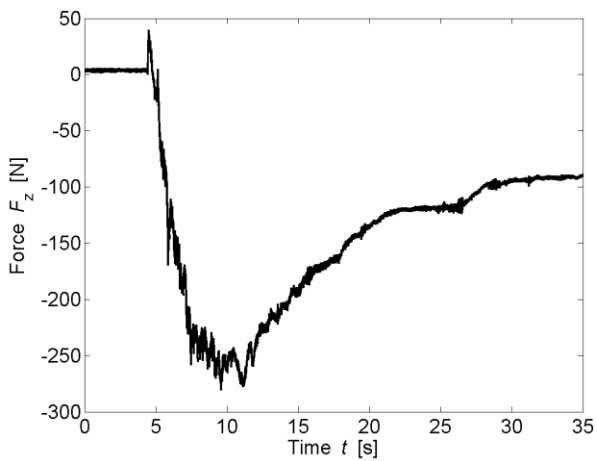
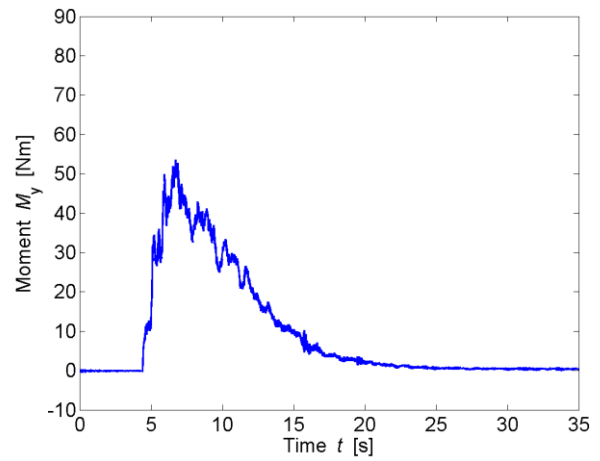
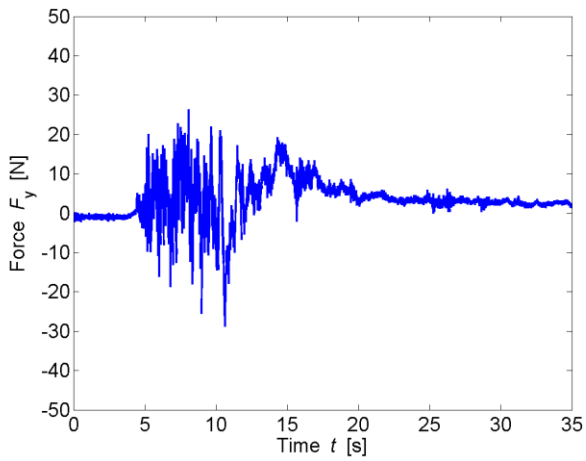
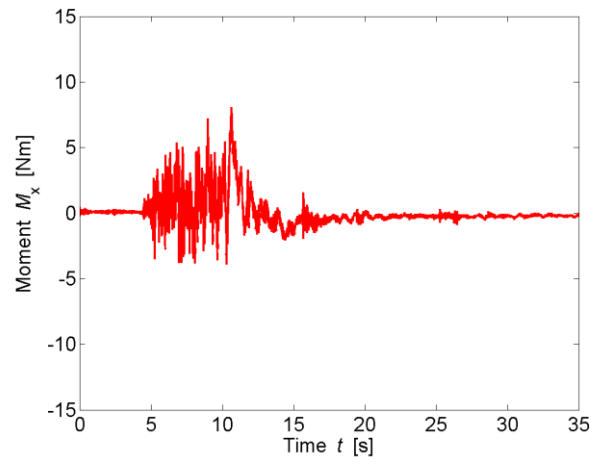
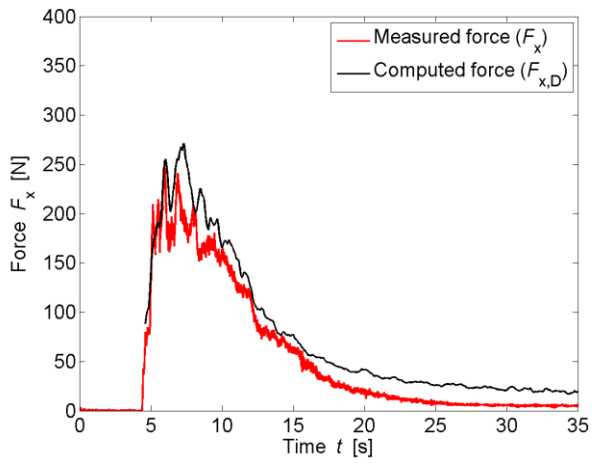


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.293	255.709	[N]
F_y	-28.882	26.418	[N]
F_z	-280.848	35.760	[N]
M_x	-3.887	8.087	[Nm]
M_y	-0.962	53.563	[Nm]
M_z	-3.269	0.971	[Nm]
Predicted Force	$F_{x,D,max}$	272.356	[N]
Initial time	t_0	4.530	[s]
Time to peak	τ_{max}	1.417	[s]
Total impulse	I_{tot}	1737.091	[Ns]
Peak Impulse	I_{peak}	200.275	[Ns]
Relative impulse	I^*	0.127	[-]
Wave height at $F_{x,max}$	h_M	0.614	[-]
Resistance coefficient	C_R	1.410	[-]



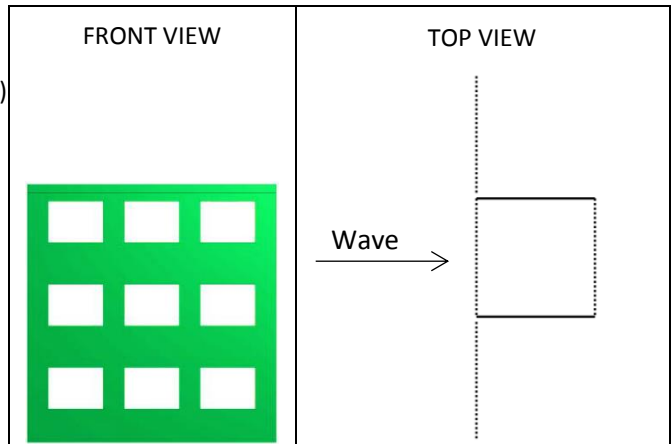
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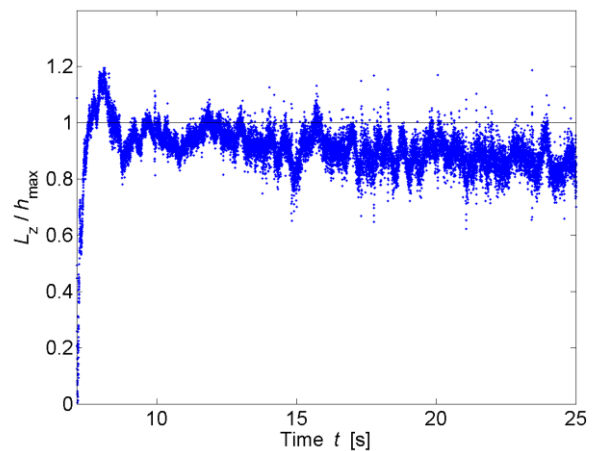
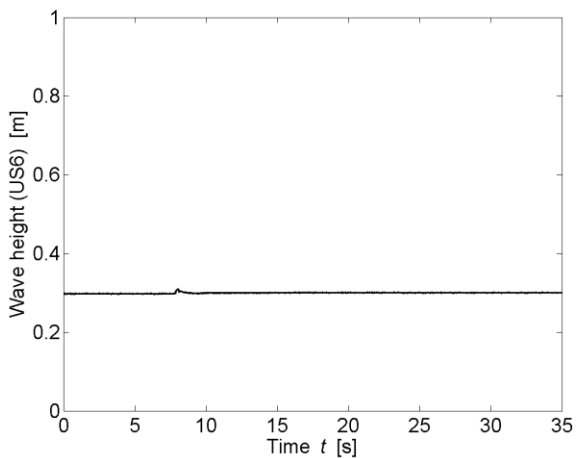
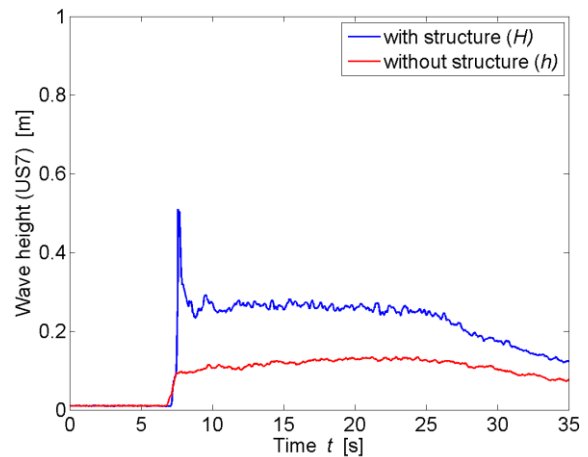
TEST PARAMETERS

Name	B34_S_WW1_1P_1		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	27.08	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.136	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.511	[m]

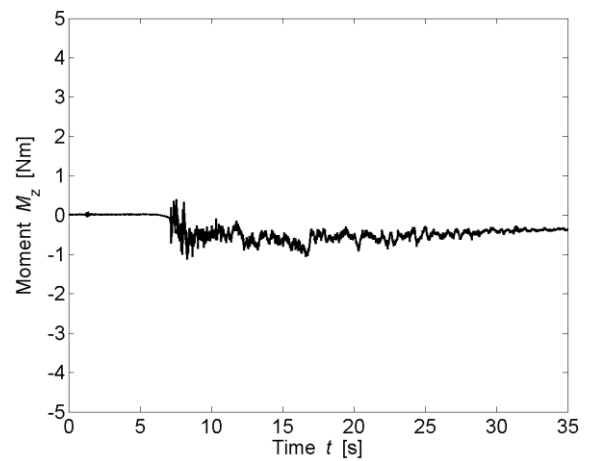
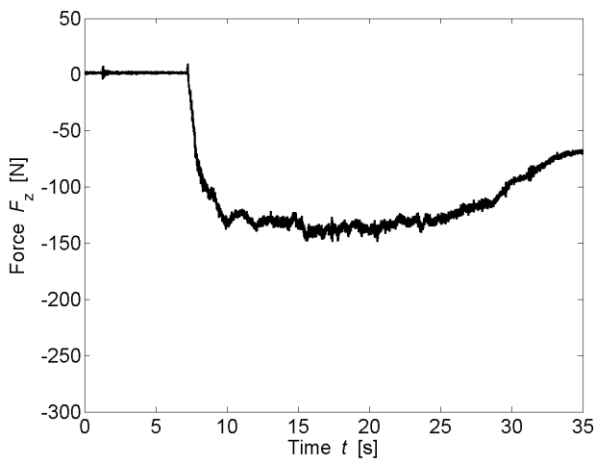
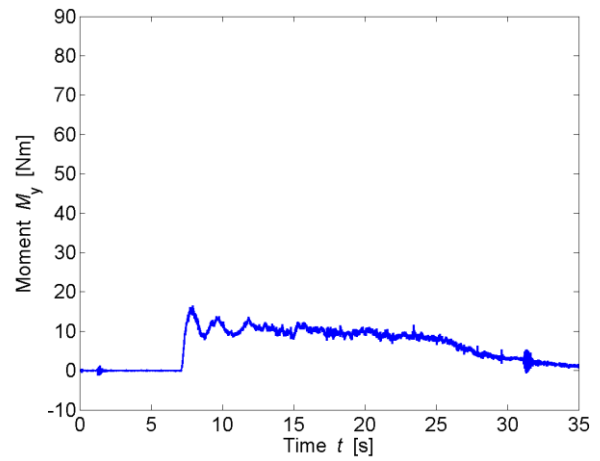
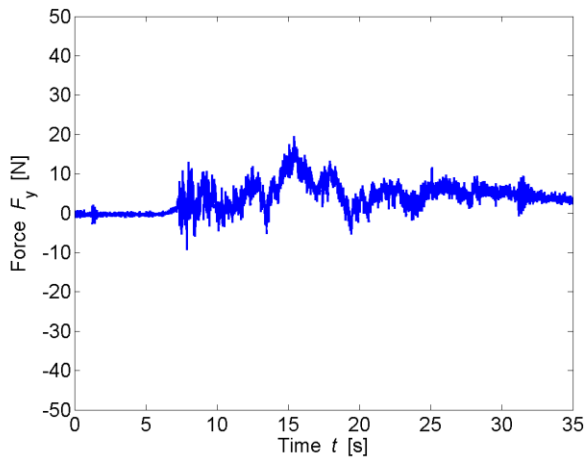
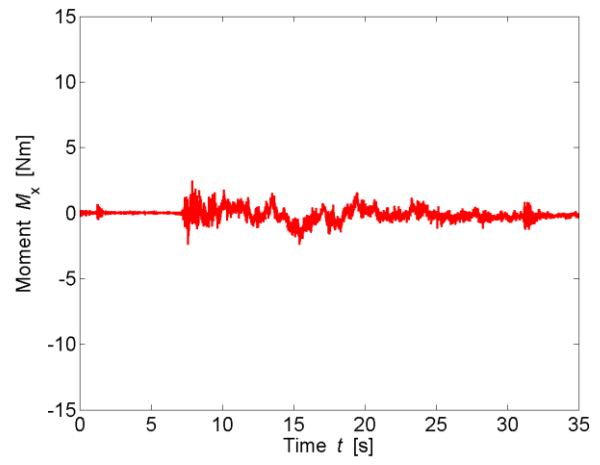
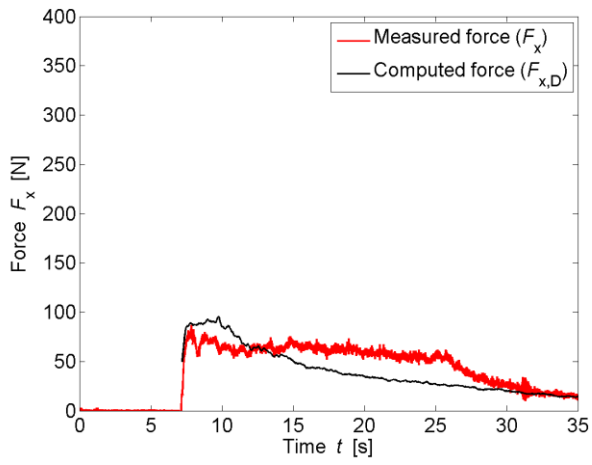


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.415	89.489	[N]
F_y	-9.393	19.582	[N]
F_z	-148.549	9.730	[N]
M_x	-2.400	2.462	[Nm]
M_y	-1.190	16.536	[Nm]
M_z	-1.125	0.397	[Nm]
Predicted Force	$F_{x,D,max}$	95.821	[N]
Initial time	t_0	7.175	[s]
Time to peak	τ_{max}	0.657	[s]
Total impulse	I_{tot}	1216.443	[Ns]
Peak Impulse	I_{peak}	42.286	[Ns]
Relative impulse	I^*	0.034	[-]
Wave height at $F_{x,max}$	h_M	0.712	[-]
Resistance coefficient	C_R	1.659	[-]

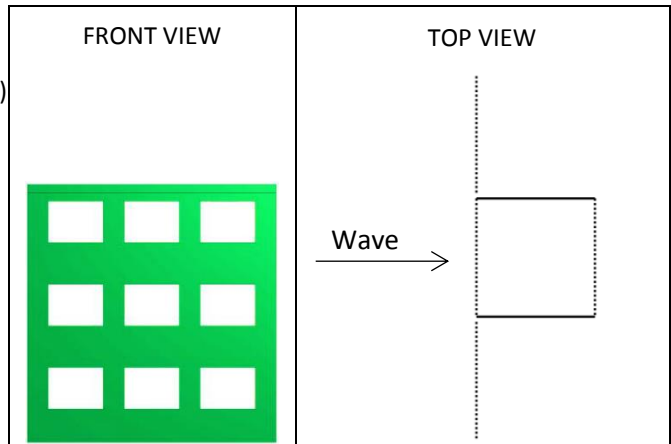


* All parameters are presented and defined at the beginning of the Appendix



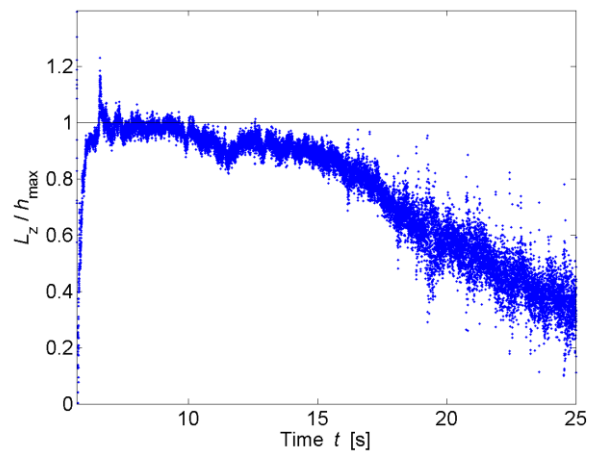
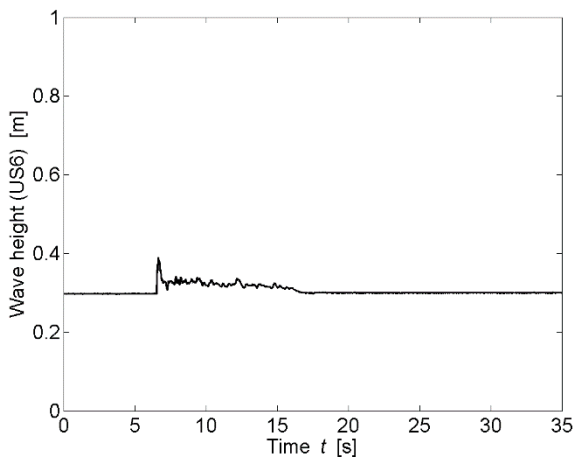
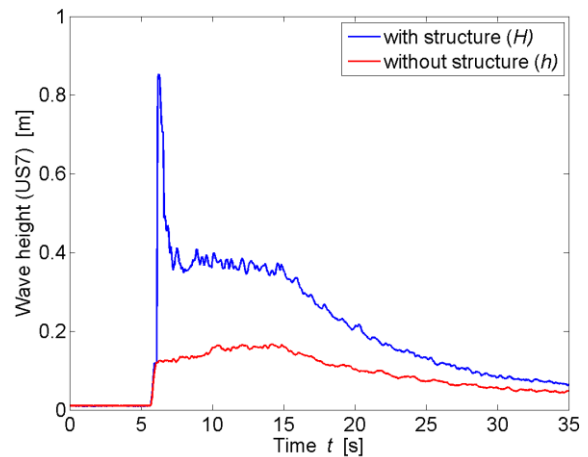
TEST PARAMETERS

Name	B34_S_WW1_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	34.76	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.725	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.853	[m]

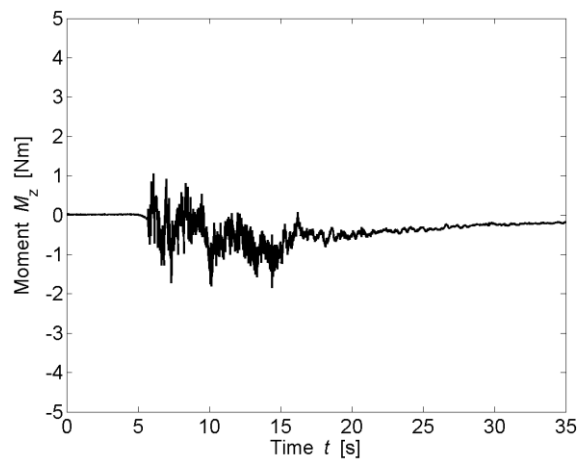
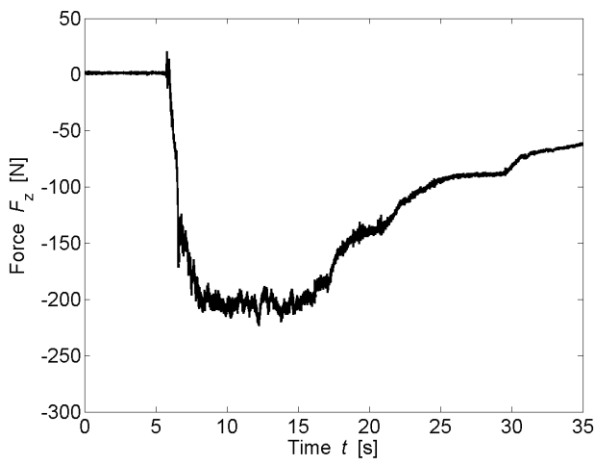
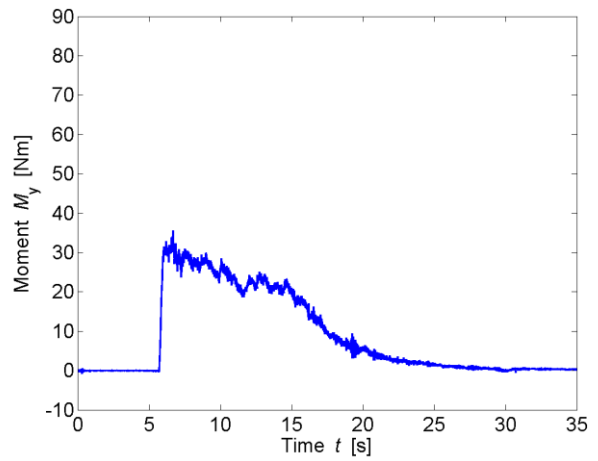
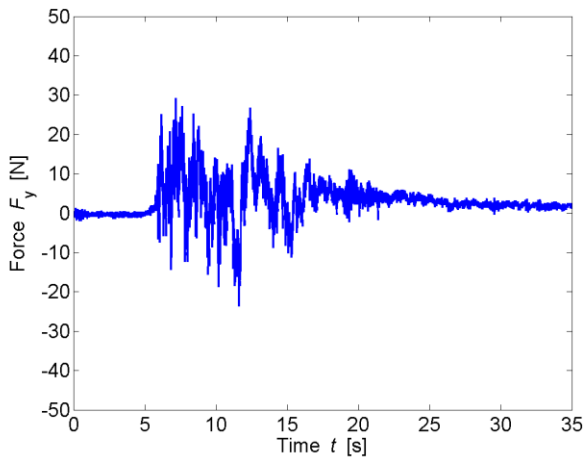
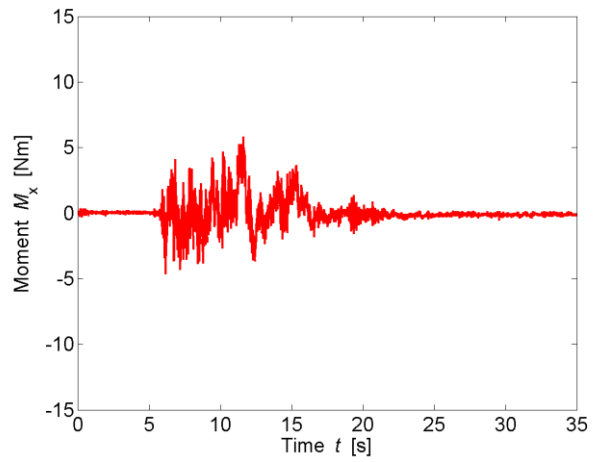
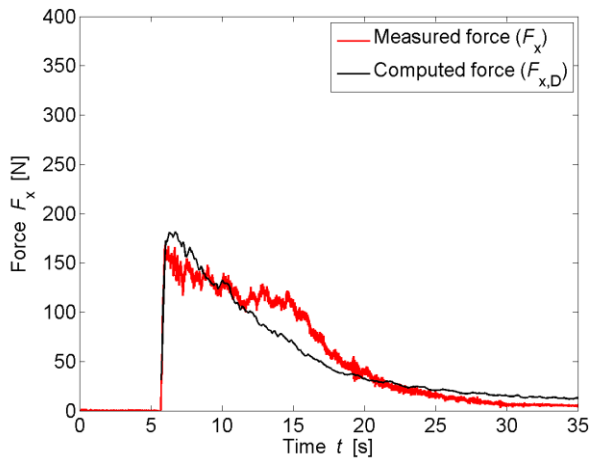


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.738	168.215	[N]
F_y	-23.611	29.273	[N]
F_z	-223.424	20.601	[N]
M_x	-4.647	5.805	[Nm]
M_y	-0.792	35.620	[Nm]
M_z	-1.850	1.054	[Nm]
Predicted Force	$F_{x,D,max}$	182.301	[N]
Initial time	t_0	5.728	[s]
Time to peak	τ_{max}	0.276	[s]
Total impulse	I_{tot}	1665.921	[Ns]
Peak Impulse	I_{peak}	26.827	[Ns]
Relative impulse	I^*	0.017	[-]
Wave height at $F_{x,max}$	h_M	0.639	[-]
Resistance coefficient	C_R	1.712	[-]

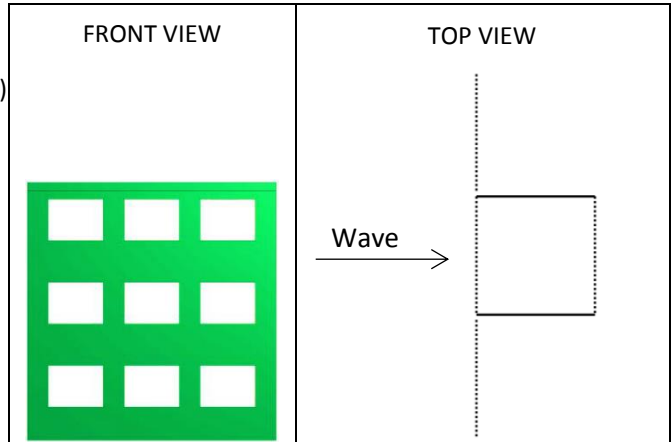


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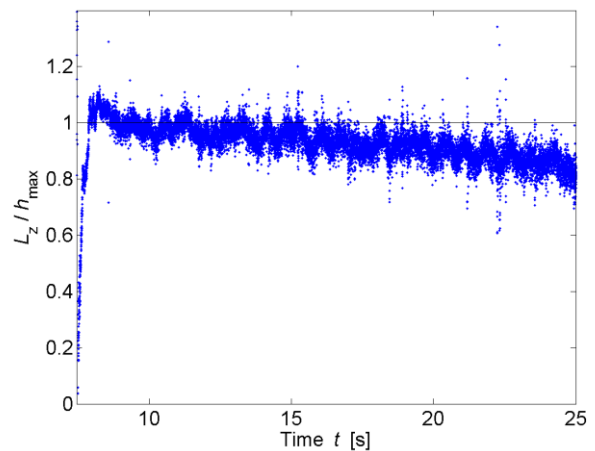
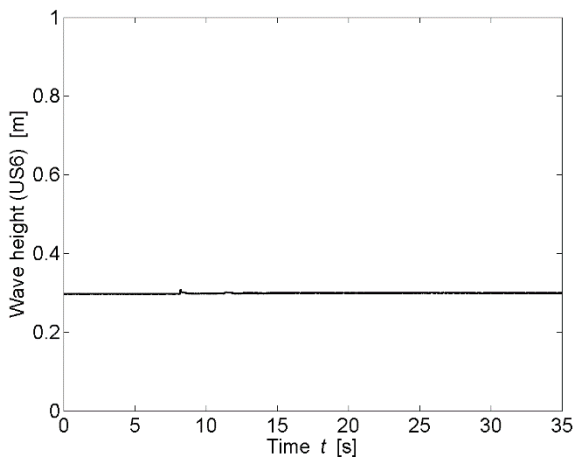
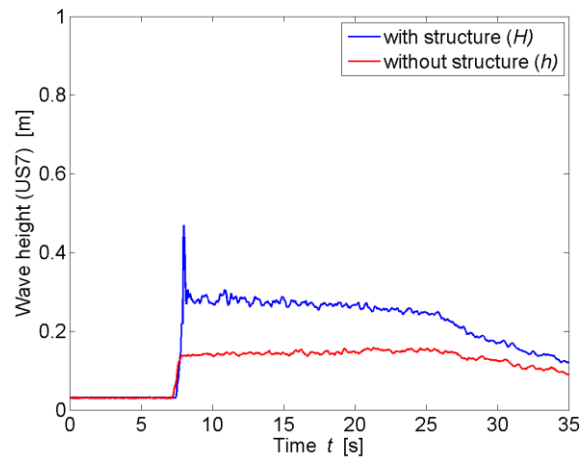
TEST PARAMETERS

Name	B34_S_WW3_1P_2		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	32.66	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.956	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.439	[m]

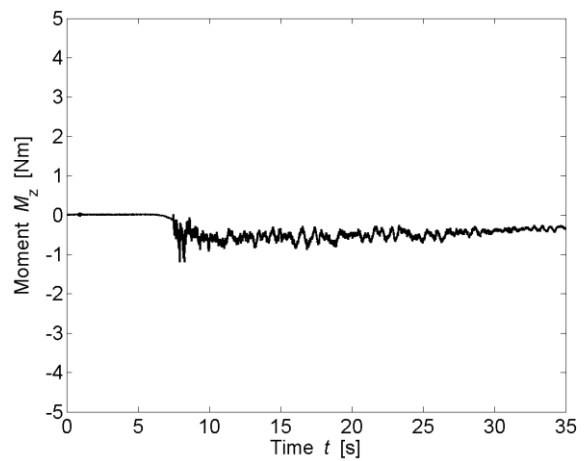
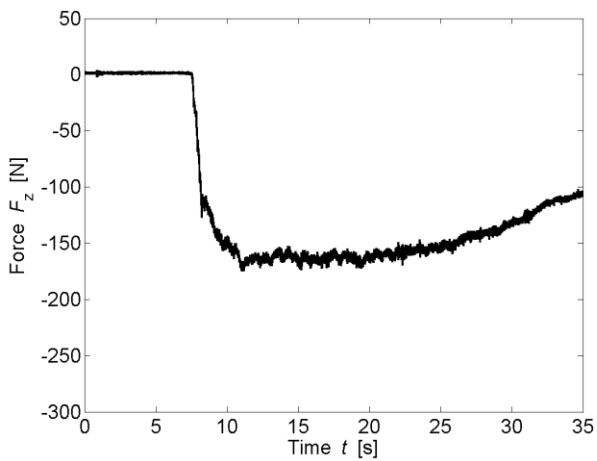
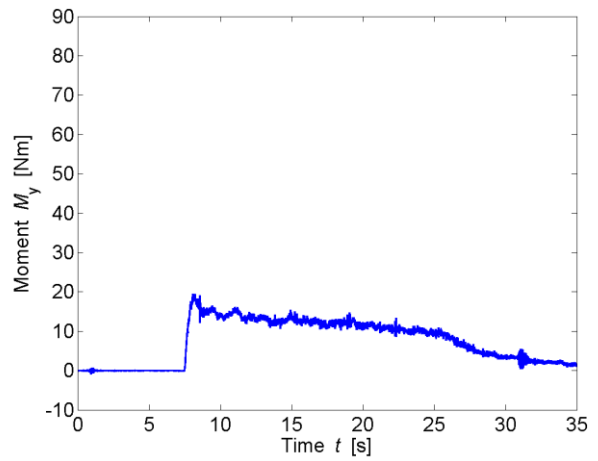
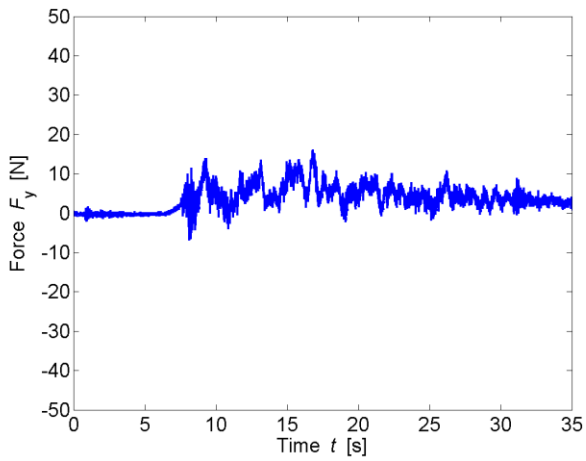
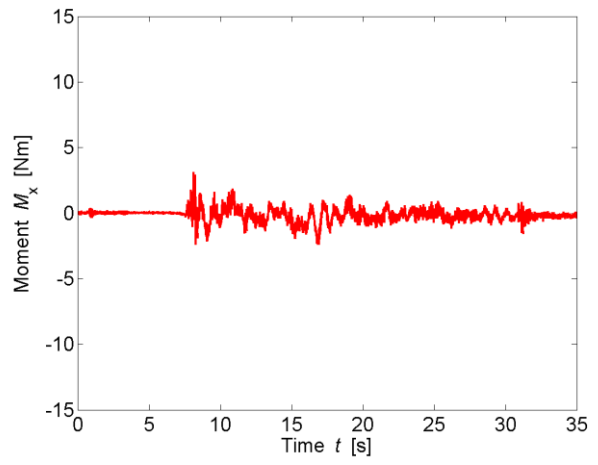
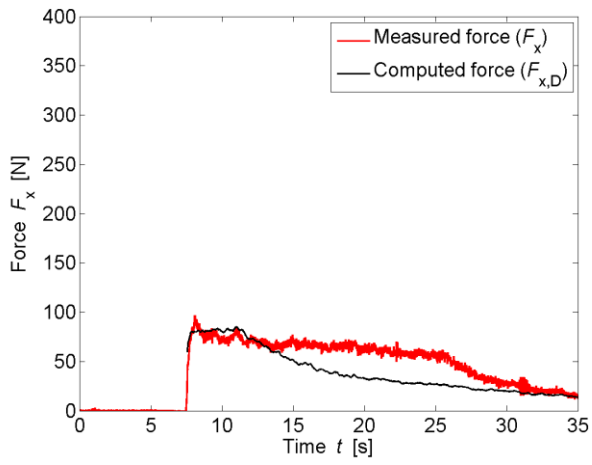


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.794	96.940	[N]
F_y	-6.848	16.082	[N]
F_z	-174.788	1.671	[N]
M_x	-2.408	3.108	[Nm]
M_y	-0.915	19.474	[Nm]
M_z	-1.196	0.067	[Nm]
Predicted Force	$F_{x,D,max}$	85.278	[N]
Initial time	t_0	7.505	[s]
Time to peak	τ_{max}	0.566	[s]
Total impulse	I_{tot}	1292.574	[Ns]
Peak Impulse	I_{peak}	35.811	[Ns]
Relative impulse	I^*	0.027	[-]
Wave height at $F_{x,max}$	h_M	0.874	[-]
Resistance coefficient	C_R	1.829	[-]

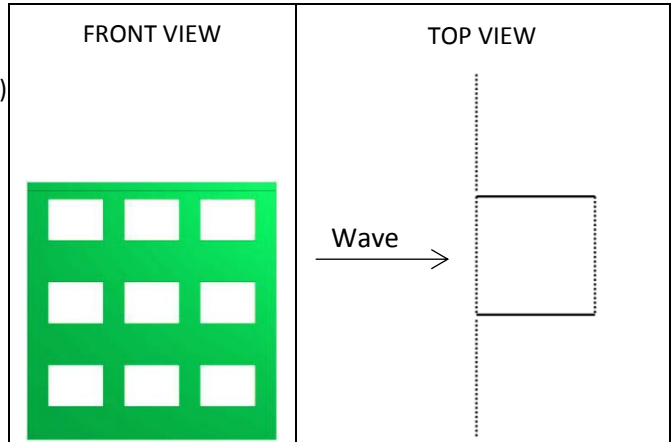


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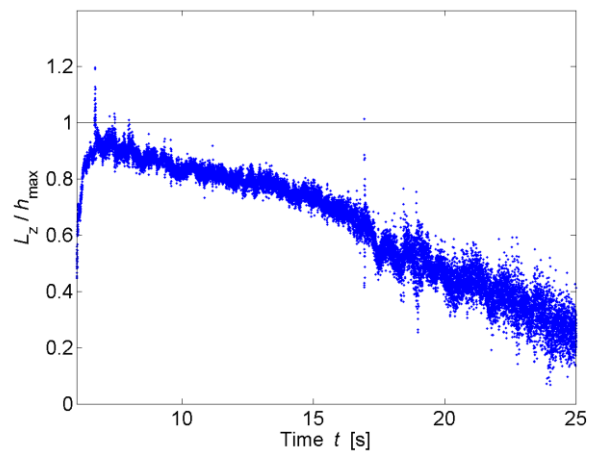
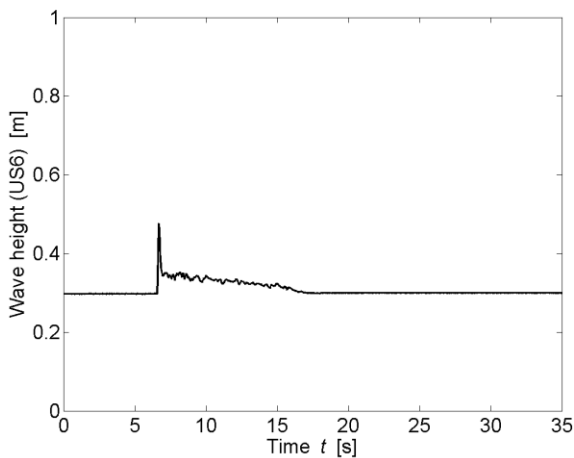
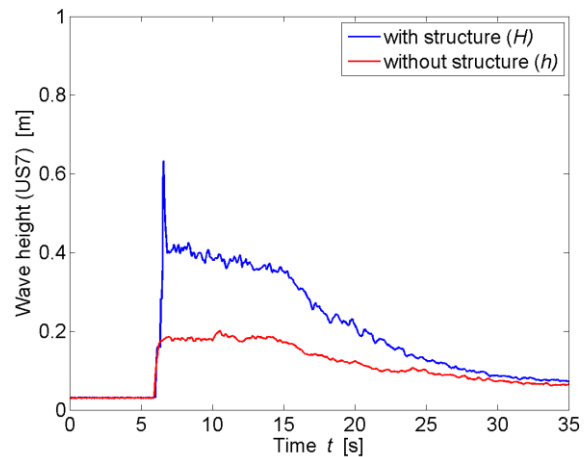
TEST PARAMETERS

Name	B34_S_WW3_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	34	[%]
Porosity at h_{max}	$P_{h,max}$	34.49	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.485	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.632	[m]

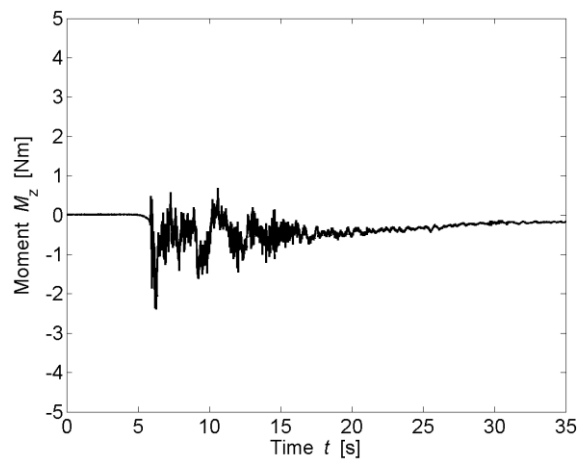
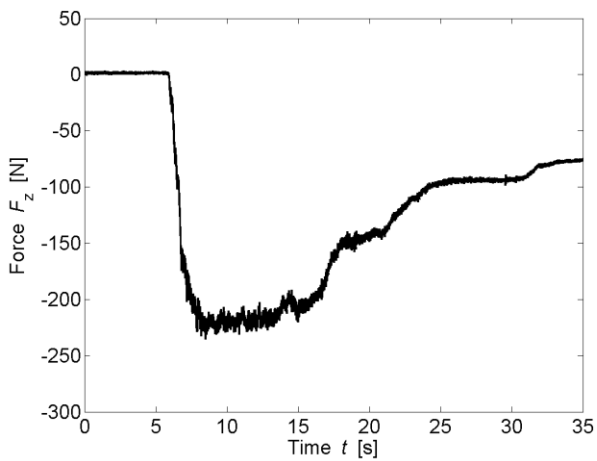
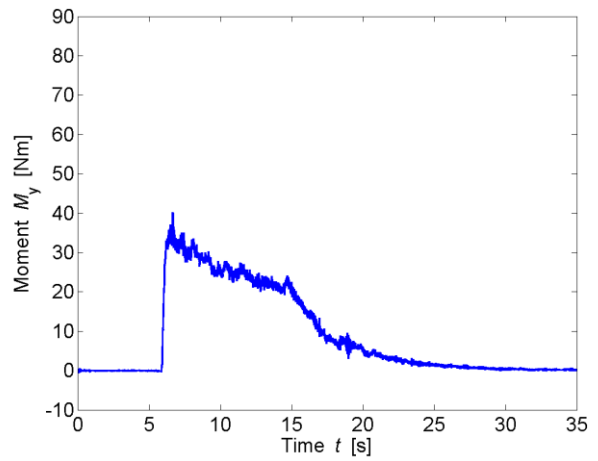
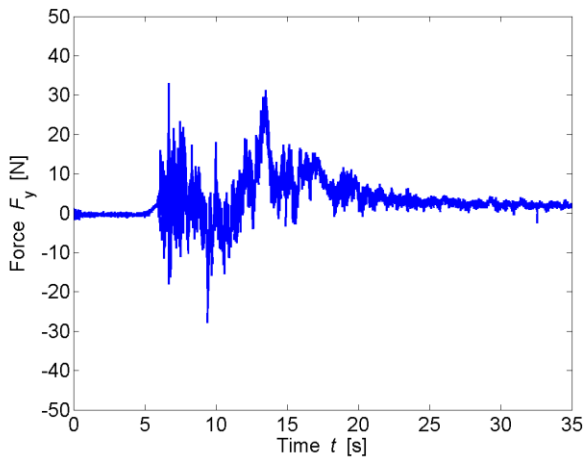
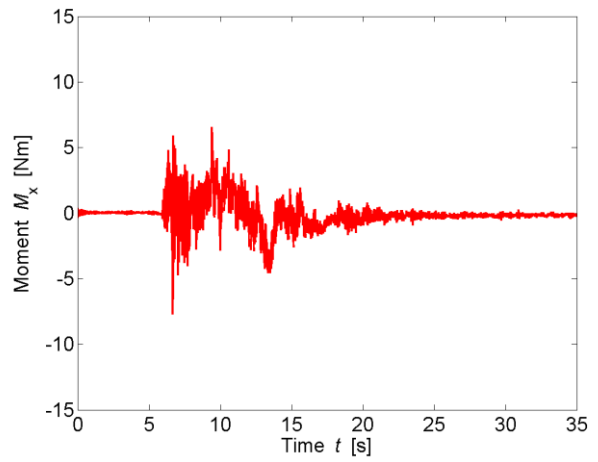
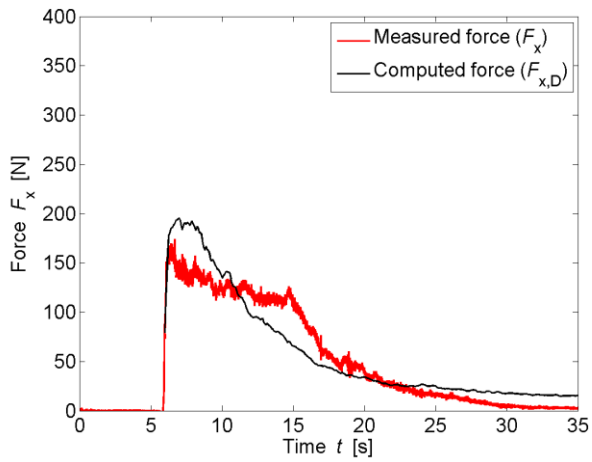


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.206	174.046	[N]
F_y	-27.845	33.017	[N]
F_z	-235.419	0.000	[N]
M_x	-7.701	6.558	[Nm]
M_y	-0.771	40.172	[Nm]
M_z	-2.389	0.684	[Nm]
Predicted Force	$F_{x,D,max}$	195.828	[N]
Initial time	t_0	6.025	[s]
Time to peak	τ_{max}	0.662	[s]
Total impulse	I_{tot}	1645.725	[Ns]
Peak Impulse	I_{peak}	100.987	[Ns]
Relative impulse	I^*	0.065	[-]
Wave height at $F_{x,max}$	h_M	0.902	[-]
Resistance coefficient	C_R	1.339	[-]

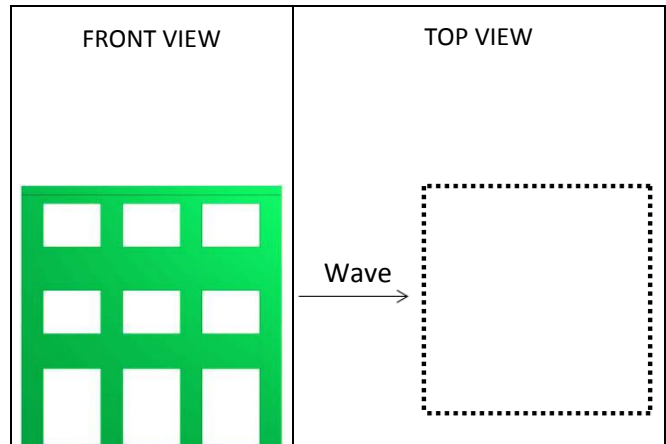


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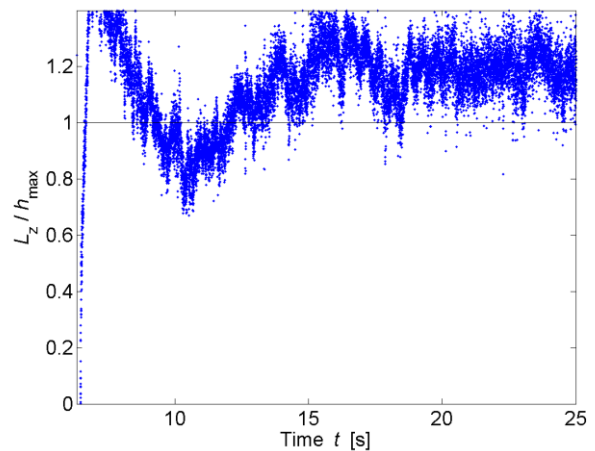
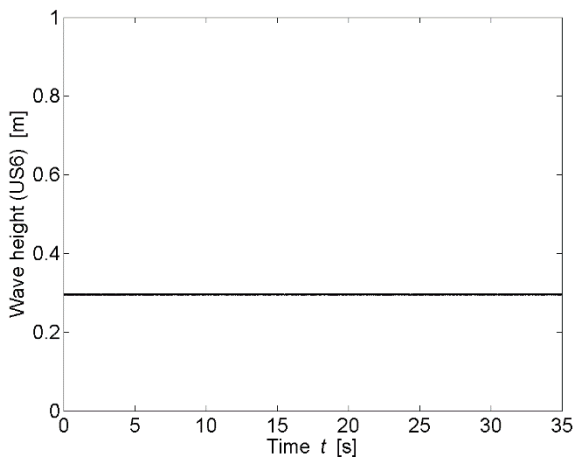
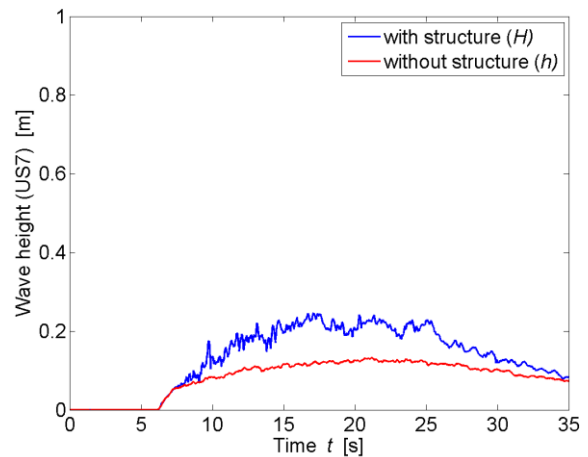
TEST PARAMETERS

Name	B42.24_0_WD1_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	46.41	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.350	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.245	[m]

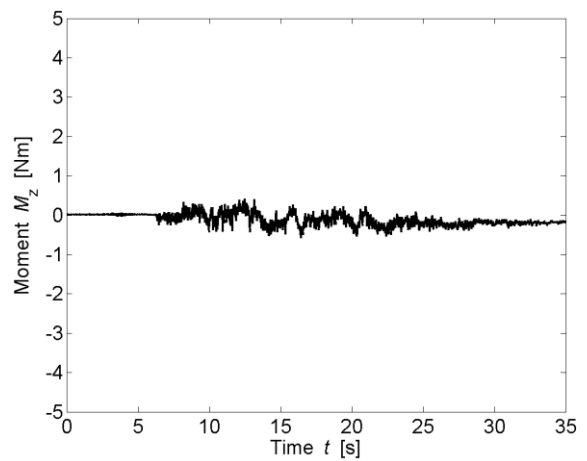
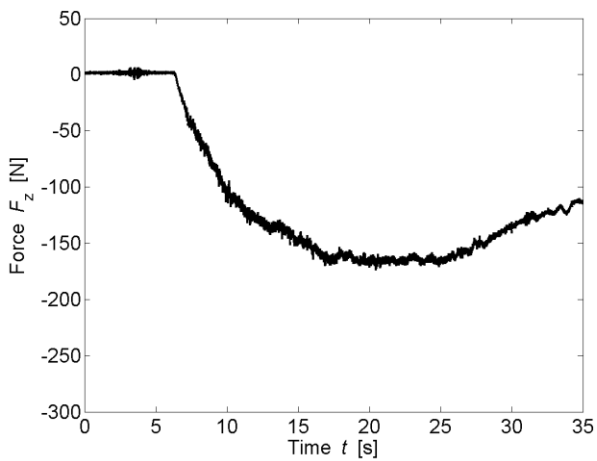
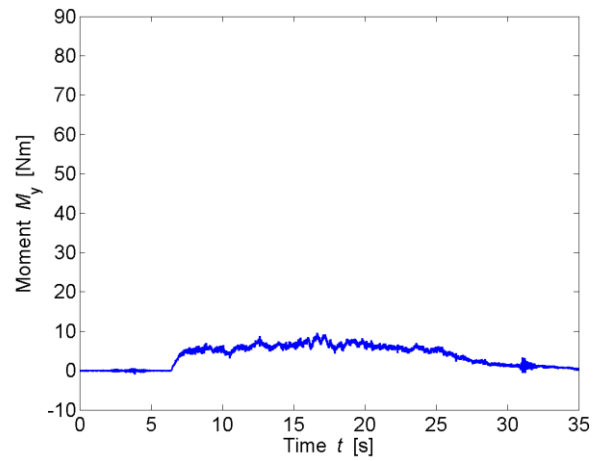
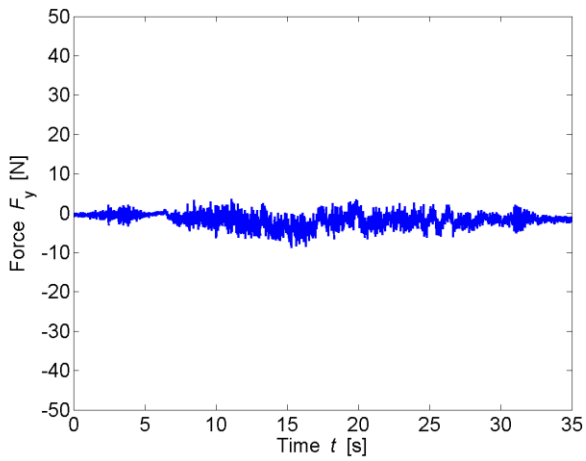
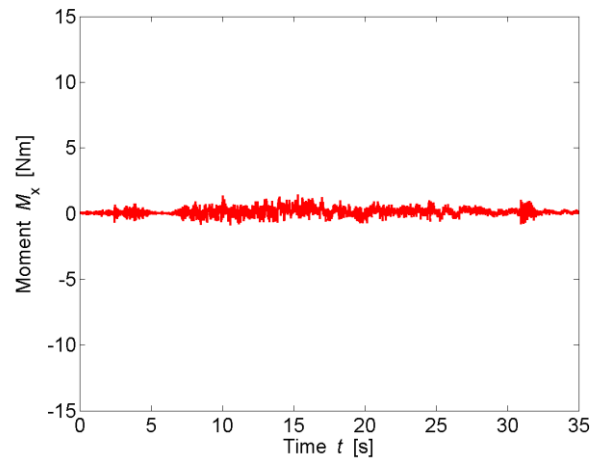
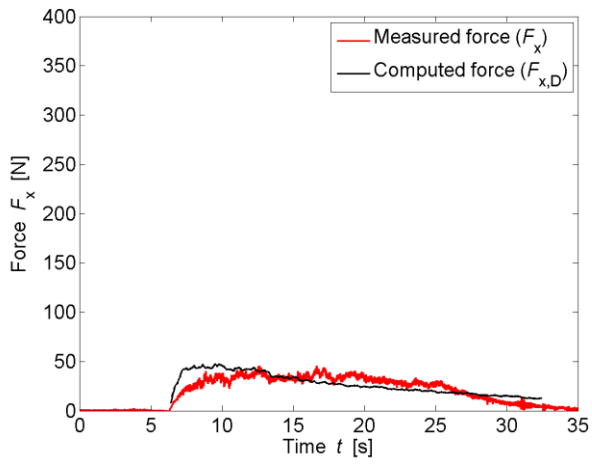


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.480	45.700	[N]
F_y	-8.757	3.626	[N]
F_z	-173.851	0.828	[N]
M_x	-0.894	1.448	[Nm]
M_y	-0.902	9.571	[Nm]
M_z	-0.580	0.411	[Nm]
Predicted Force	$F_{x,D,max}$	47.332	[N]
Initial time	t_0	6.363	[s]
Time to peak	τ_{max}	10.306	[s]
Total impulse	I_{tot}	618.929	[Ns]
Peak Impulse	I_{peak}	317.793	[Ns]
Relative impulse	I^*	0.499	[-]
Wave height at $F_{x,max}$	h_M	0.848	[-]
Resistance coefficient	C_R	1.568	[-]

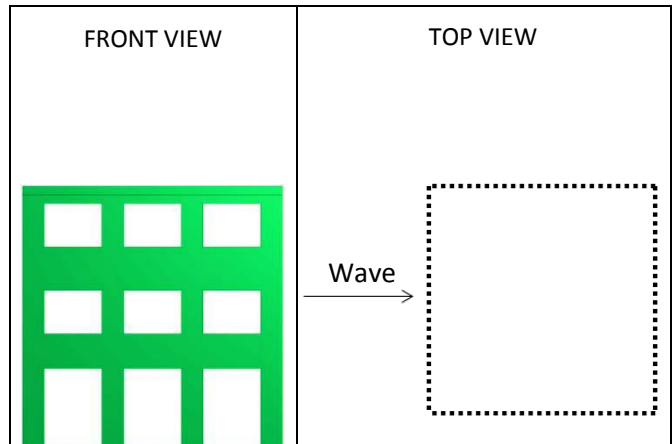


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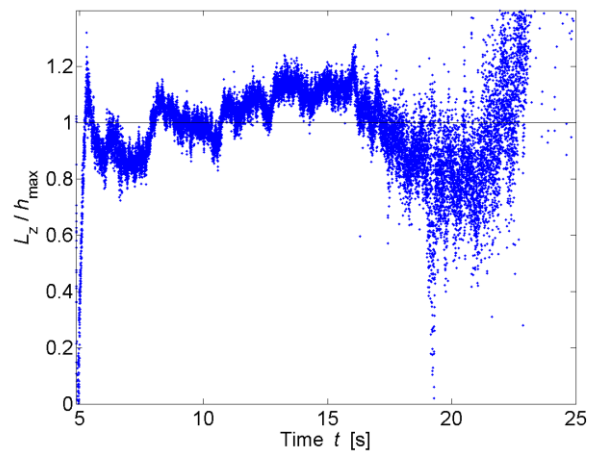
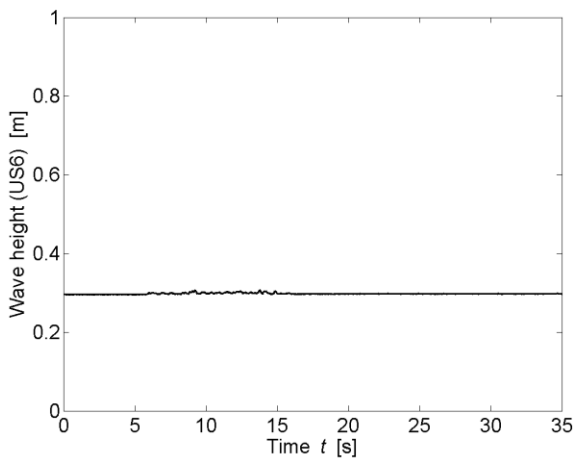
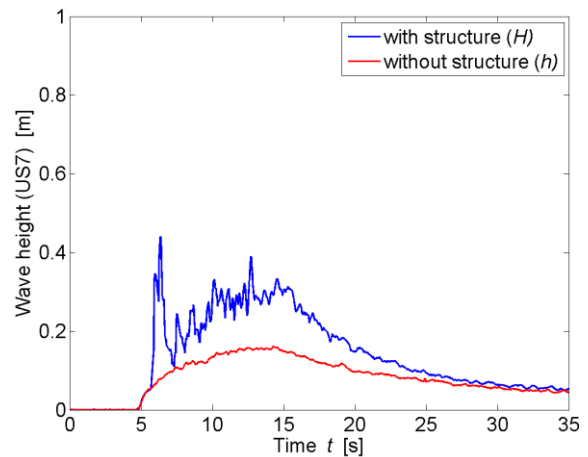
TEST PARAMETERS

Name	B42.24_0_WD2_1		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	49.71	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.069	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.440	[m]

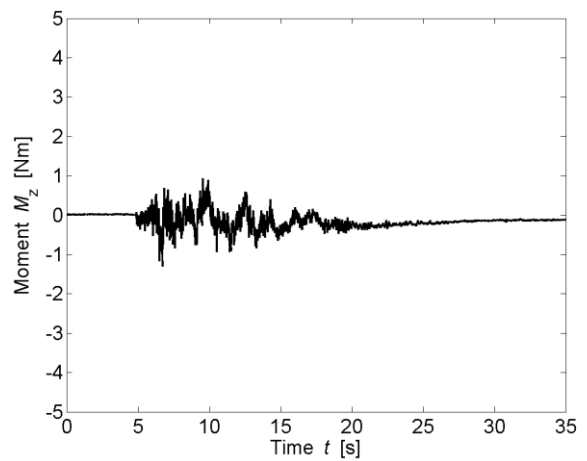
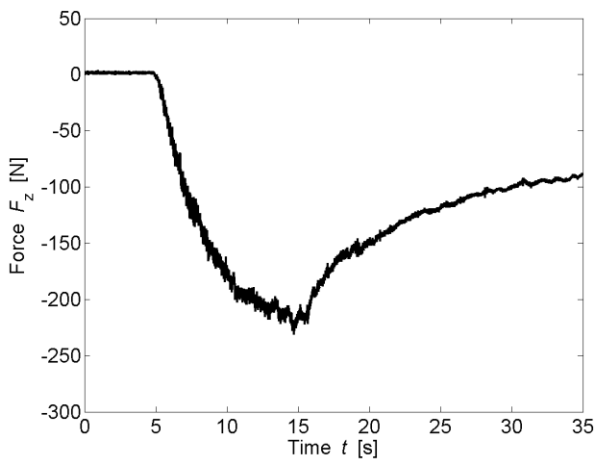
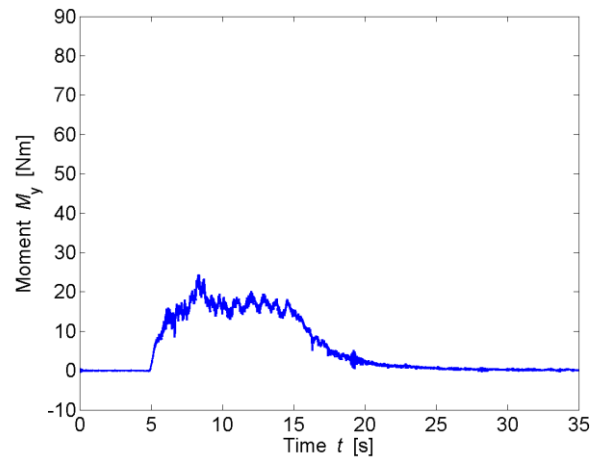
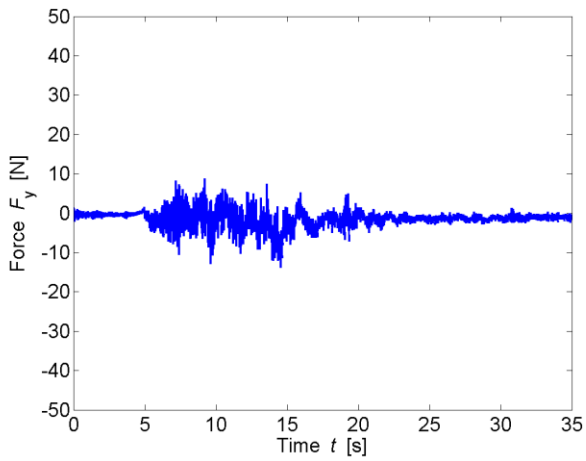
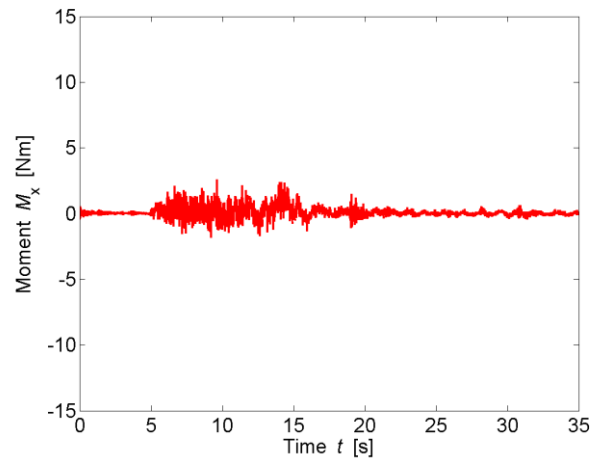
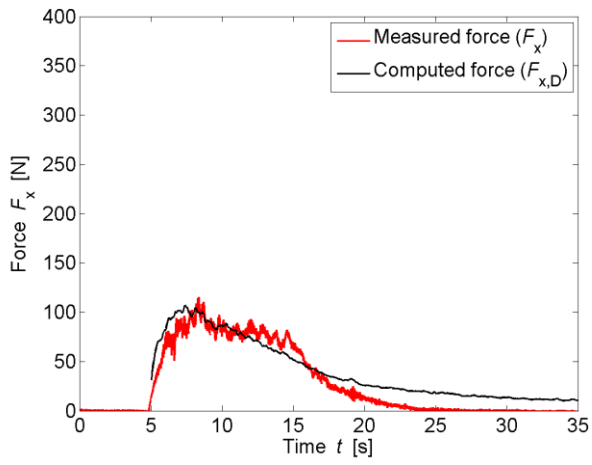


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.149	115.255	[N]
F_y	-13.798	8.741	[N]
F_z	-231.296	0.921	[N]
M_x	-1.819	2.608	[Nm]
M_y	-1.295	24.442	[Nm]
M_z	-1.306	0.936	[Nm]
Predicted Force	$F_{x,D,max}$	106.796	[N]
Initial time	t_0	4.928	[s]
Time to peak	τ_{max}	3.463	[s]
Total impulse	I_{tot}	957.653	[Ns]
Peak Impulse	I_{peak}	239.385	[Ns]
Relative impulse	I^*	0.253	[-]
Wave height at $F_{x,max}$	h_M	0.736	[-]
Resistance coefficient	C_R	1.094	[-]

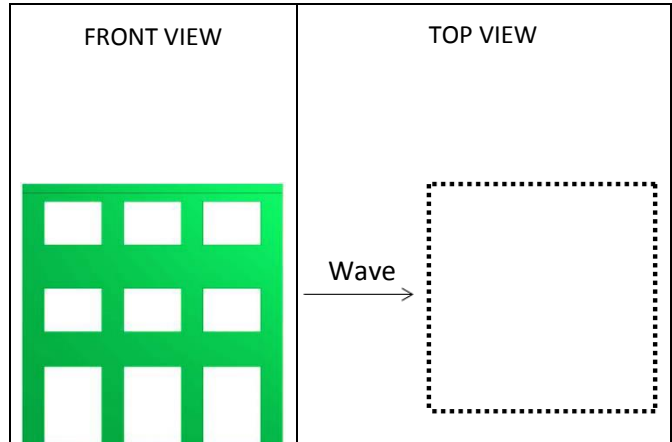


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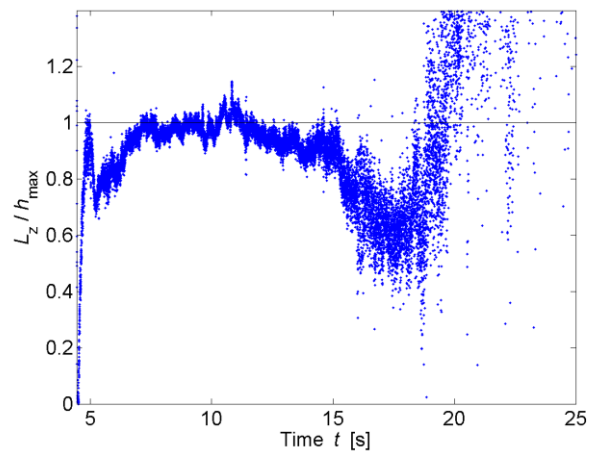
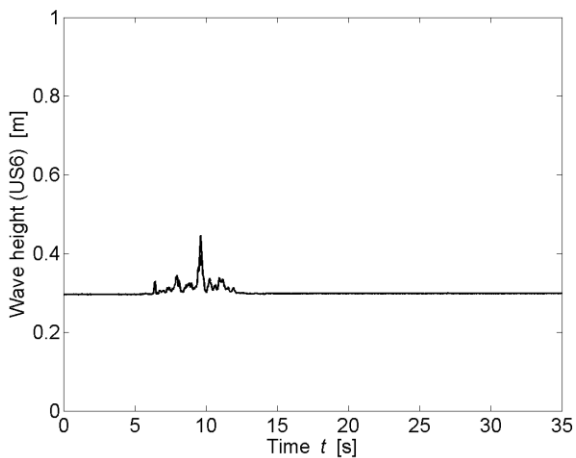
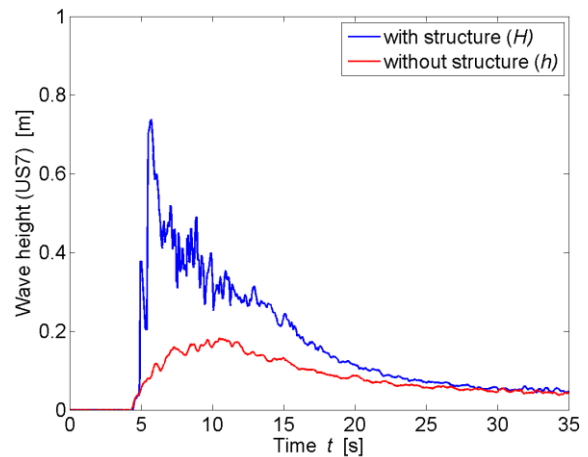
TEST PARAMETERS

Name	B42.24_0_WD3_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	51.65	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.569	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.738	[m]

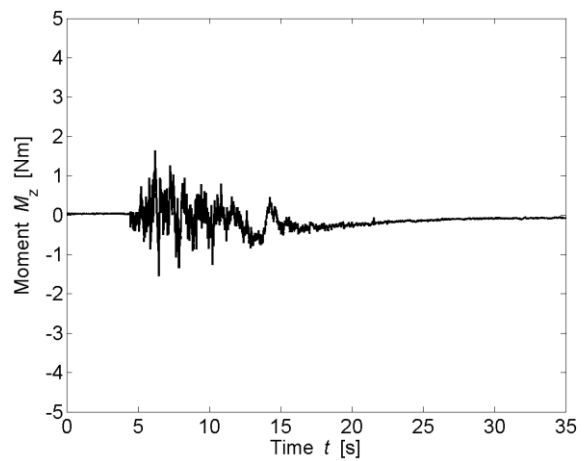
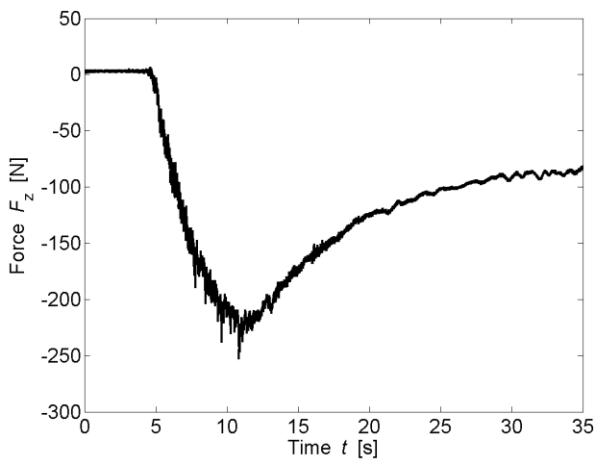
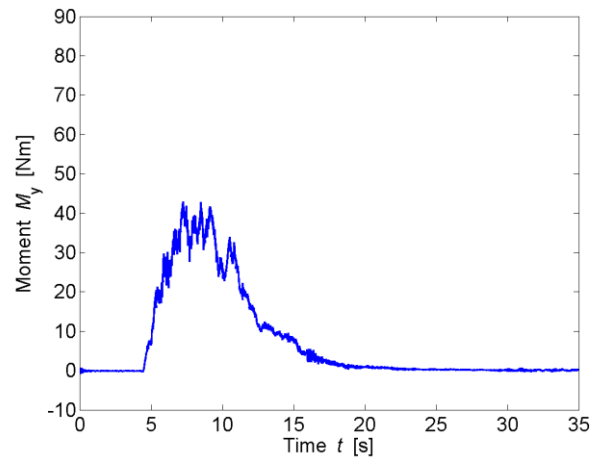
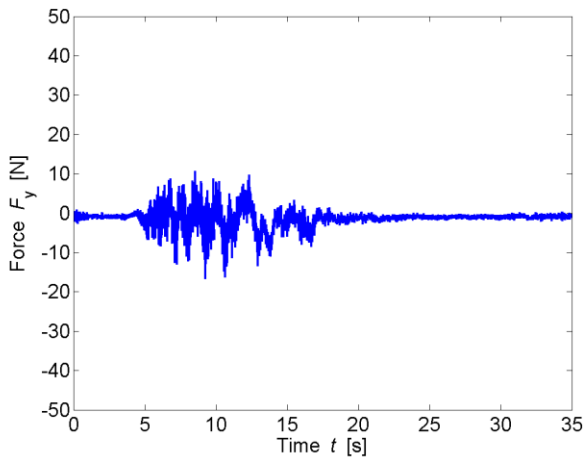
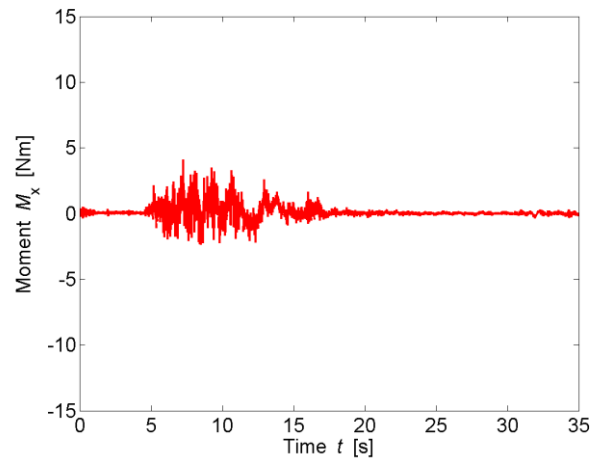
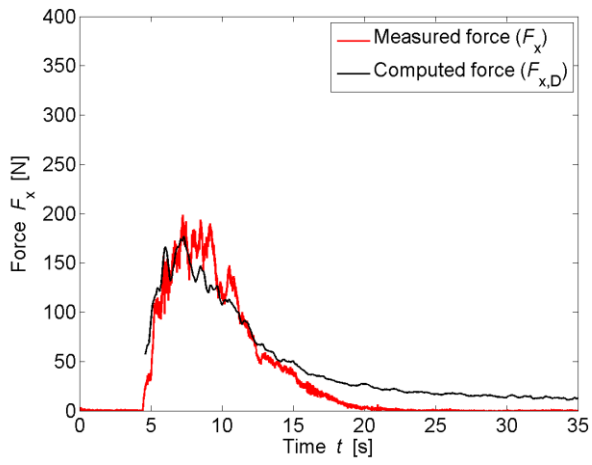


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.734	198.429	[N]
F_y	-16.682	10.629	[N]
F_z	-252.866	6.903	[N]
M_x	-2.351	4.101	[Nm]
M_y	-0.863	42.914	[Nm]
M_z	-1.540	1.642	[Nm]
Predicted Force	$F_{x,D,max}$	176.630	[N]
Initial time	t_0	4.488	[s]
Time to peak	τ_{max}	2.769	[s]
Total impulse	I_{tot}	1196.414	[Ns]
Peak Impulse	I_{peak}	303.834	[Ns]
Relative impulse	I^*	0.255	[-]
Wave height at $F_{x,max}$	h_M	0.861	[-]
Resistance coefficient	C_R	1.039	[-]



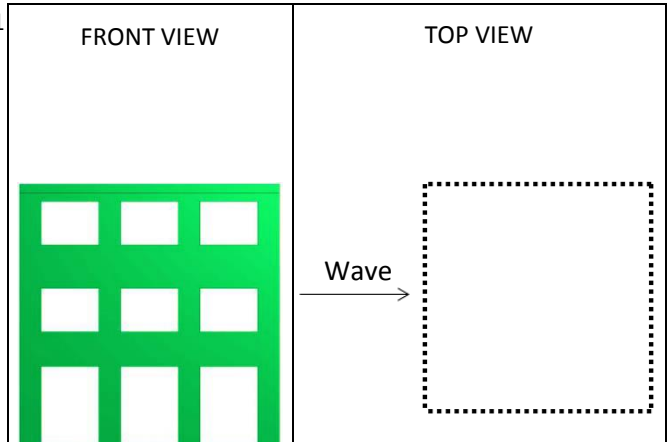
* All parameters are presented and defined at the beginning of the Appendix



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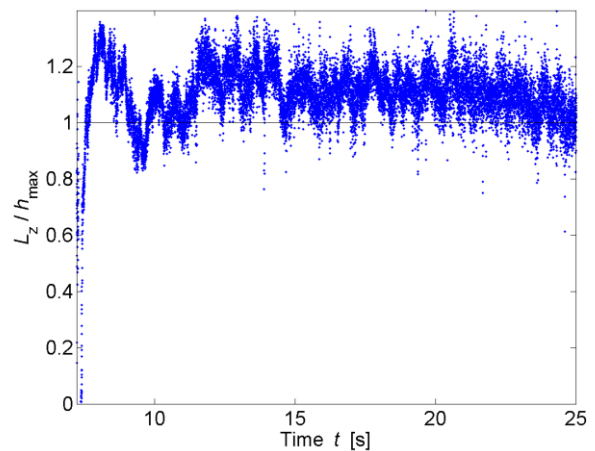
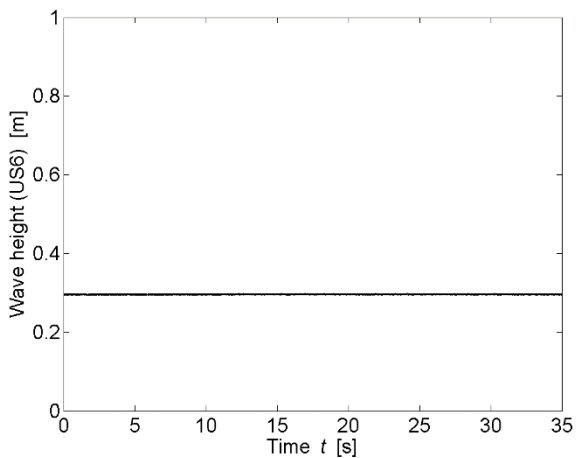
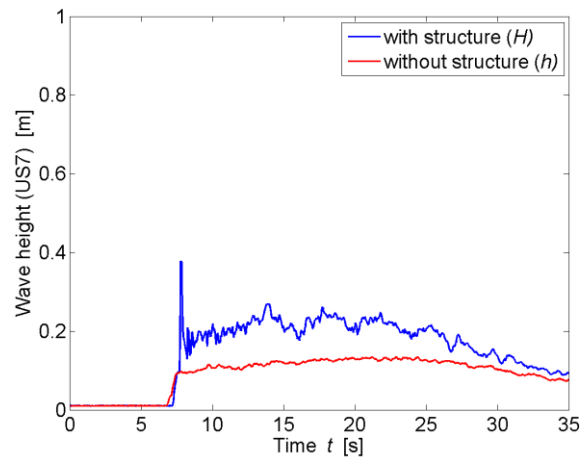
TEST PARAMETERS

Name	B42.24_0_WW1_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	46.64	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.065	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.379	[m]

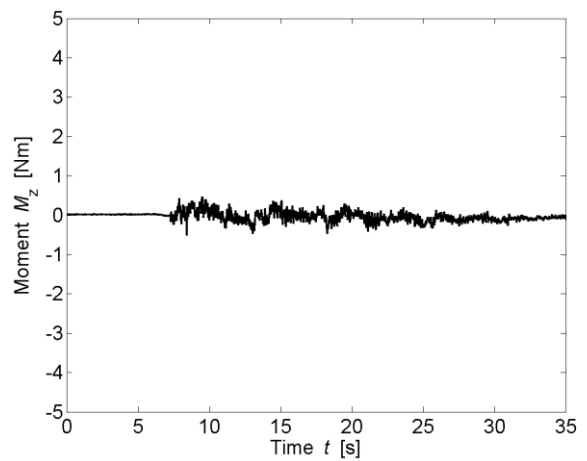
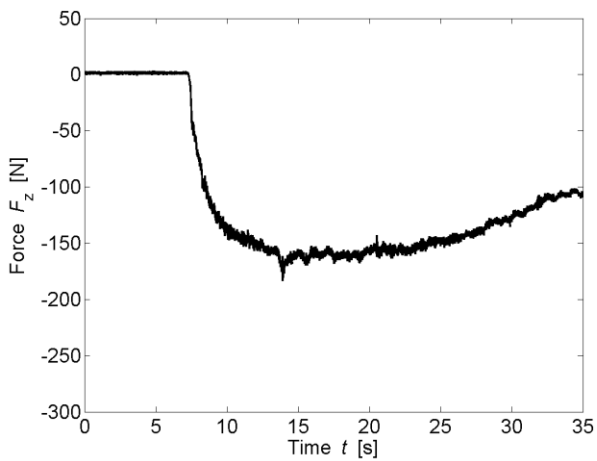
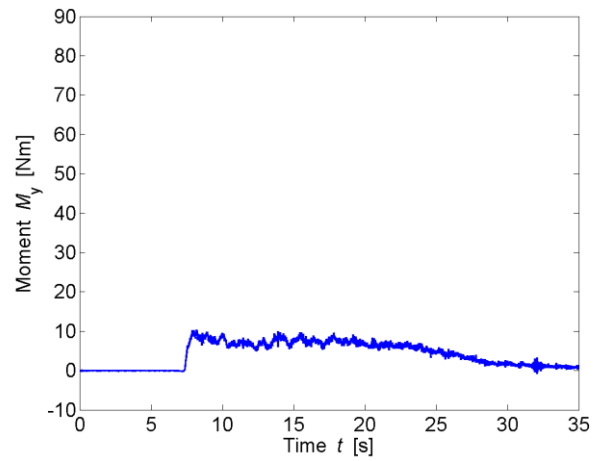
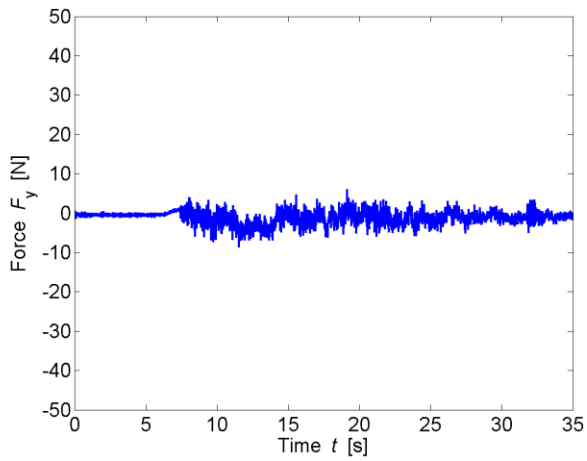
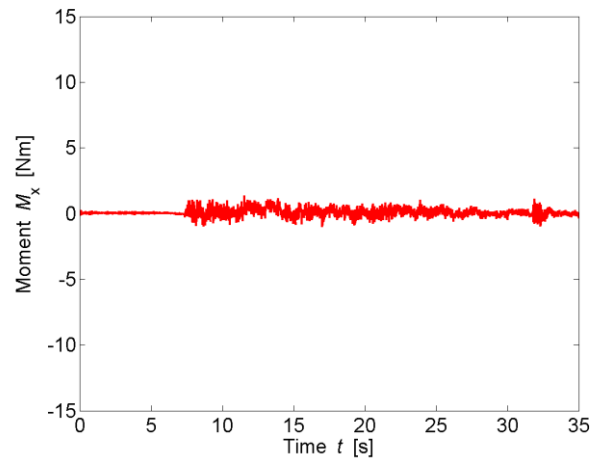
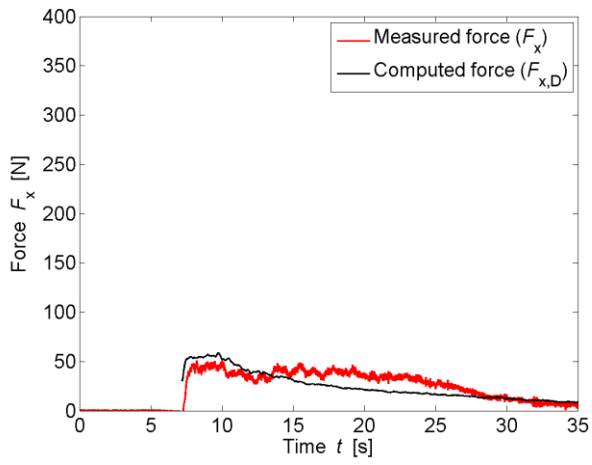


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.770	50.797	[N]
F_y	-8.610	6.000	[N]
F_z	-183.409	1.765	[N]
M_x	-1.009	1.357	[Nm]
M_y	-0.784	10.434	[Nm]
M_z	-0.516	0.475	[Nm]
Predicted Force	$F_{x,D,max}$	58.683	[N]
Initial time	t_0	7.273	[s]
Time to peak	τ_{max}	0.973	[s]
Total impulse	I_{tot}	718.397	[Ns]
Peak Impulse	I_{peak}	33.130	[Ns]
Relative impulse	I^*	0.045	[-]
Wave height at $F_{x,max}$	h_M	0.697	[-]
Resistance coefficient	C_R	0.922	[-]

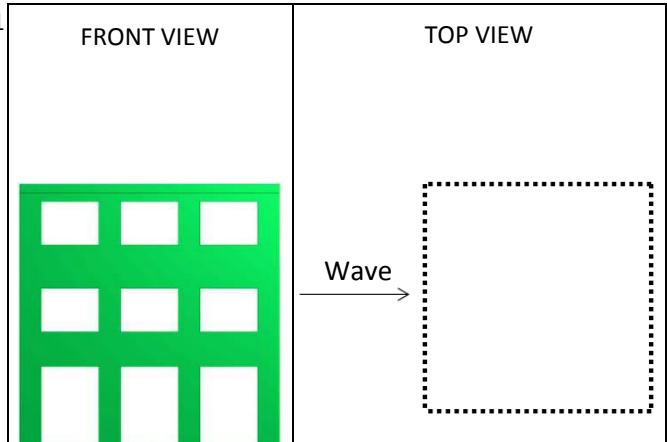


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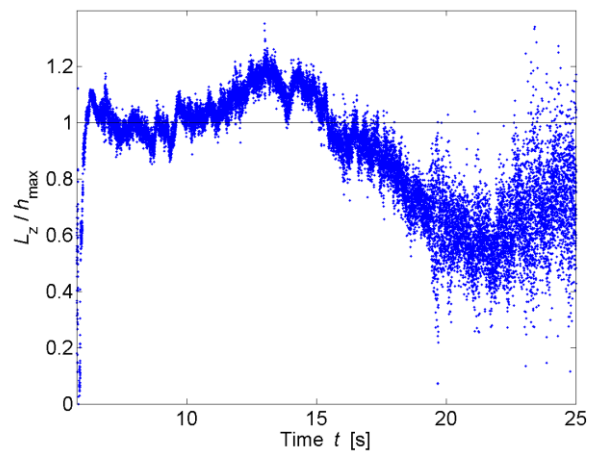
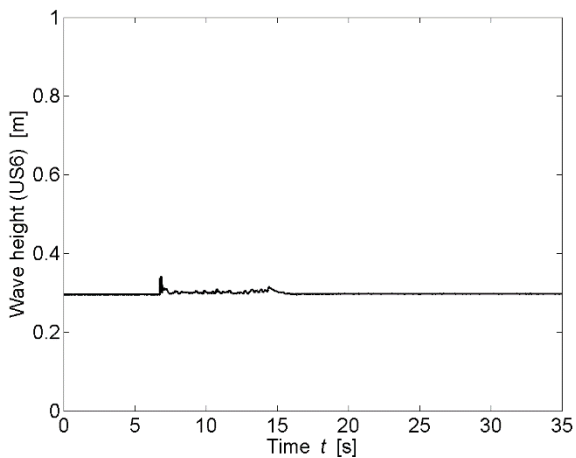
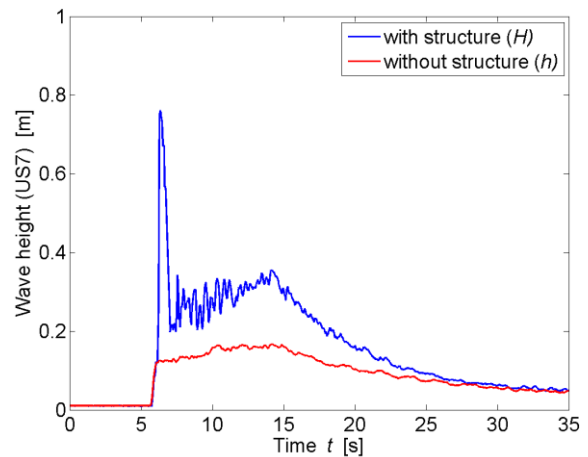
TEST PARAMETERS

Name	B42.24_0_WW1_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	50.40	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.665	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.760	[m]

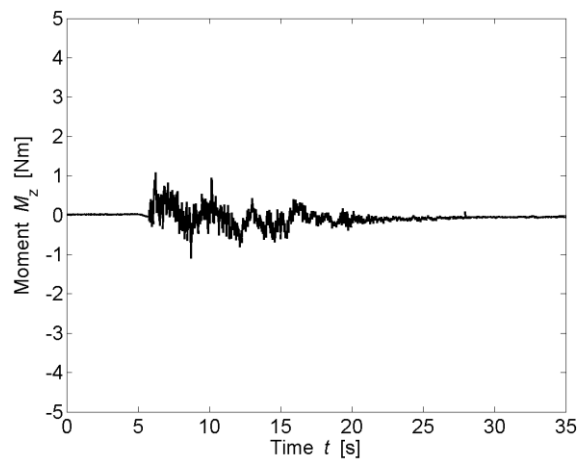
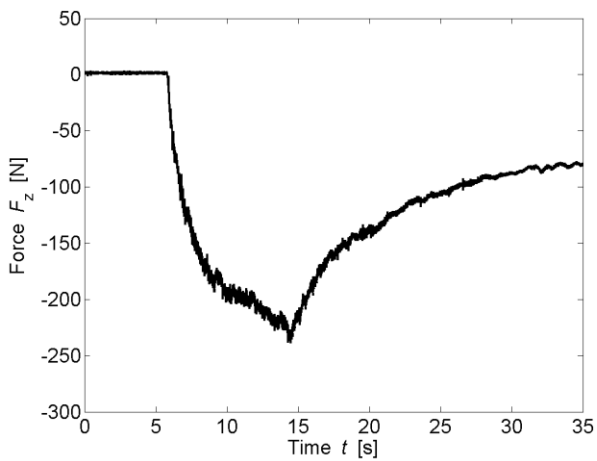
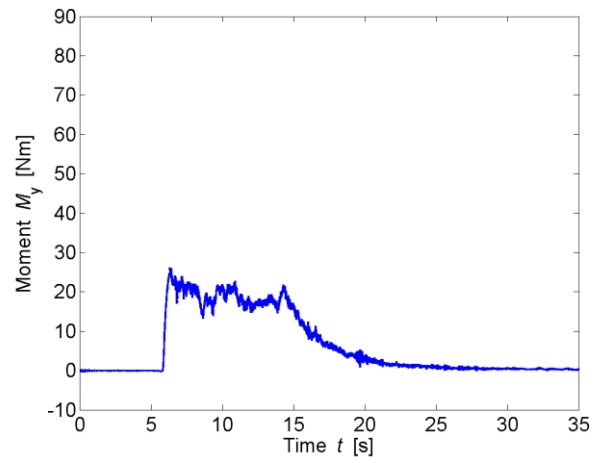
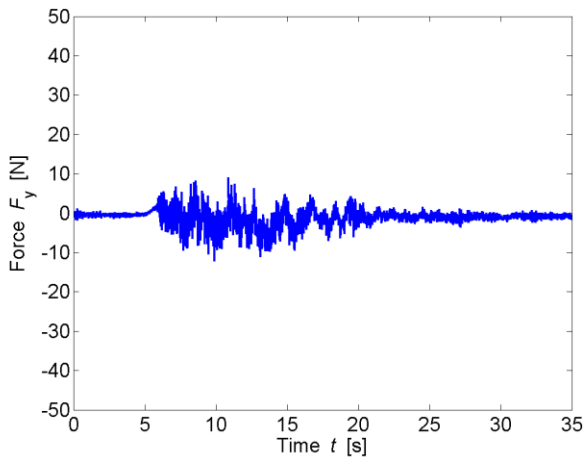
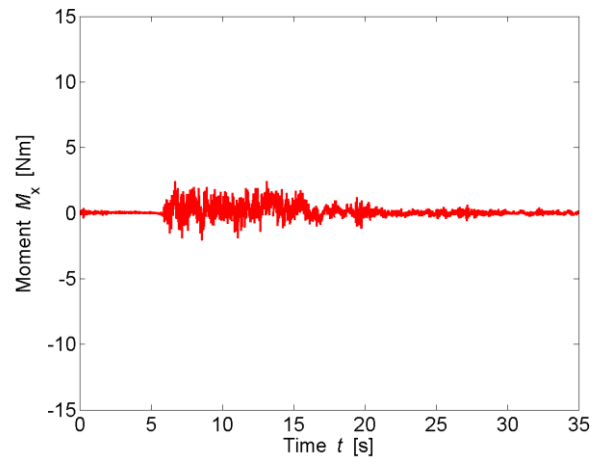
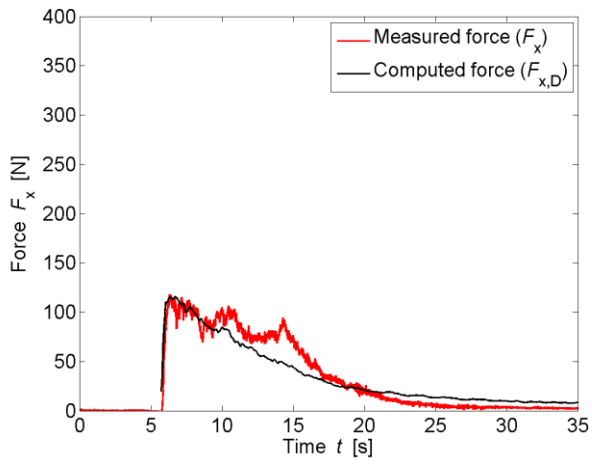


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.988	117.819	[N]
F_y	-12.232	9.034	[N]
F_z	-238.886	2.233	[N]
M_x	-2.082	2.449	[Nm]
M_y	-0.771	26.122	[Nm]
M_z	-1.097	1.089	[Nm]
Predicted Force	$F_{x,D,max}$	115.983	[N]
Initial time	t_0	5.788	[s]
Time to peak	τ_{max}	0.615	[s]
Total impulse	I_{tot}	1068.219	[Ns]
Peak Impulse	I_{peak}	46.699	[Ns]
Relative impulse	I^*	0.045	[-]
Wave height at $F_{x,max}$	h_M	0.743	[-]
Resistance coefficient	C_R	0.985	[-]



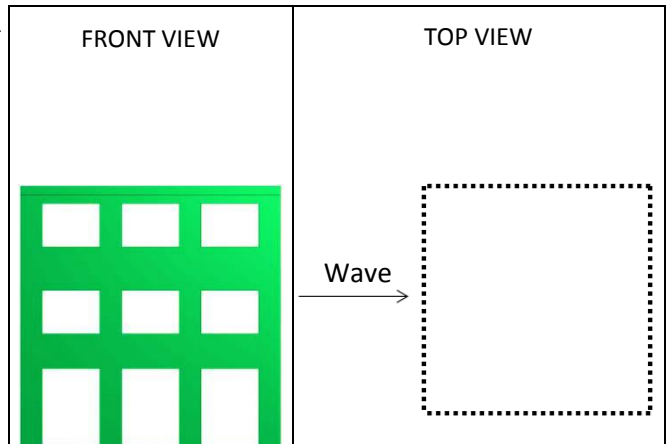
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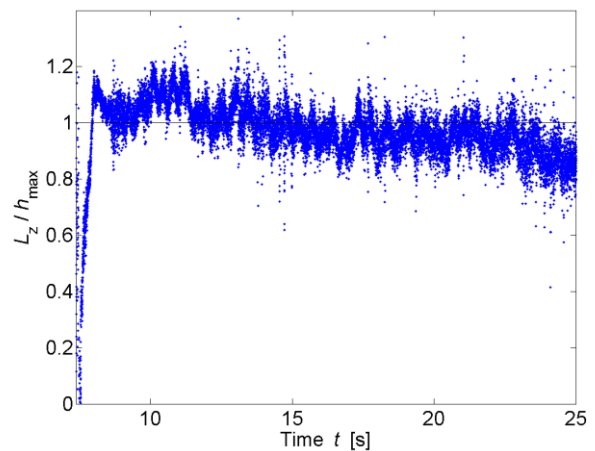
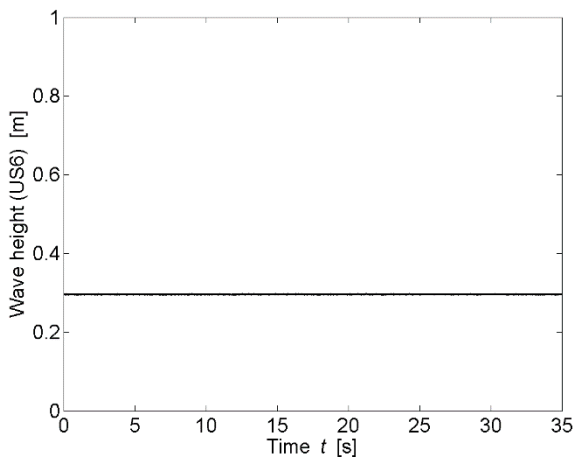
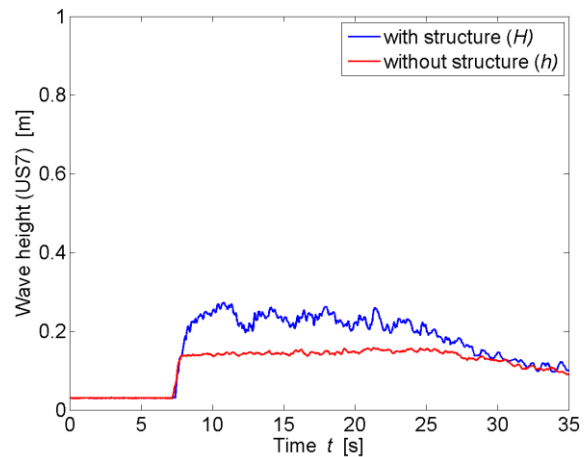
TEST PARAMETERS

Name	B42.24_0_WW3_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	49.37	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.952	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.273	[m]

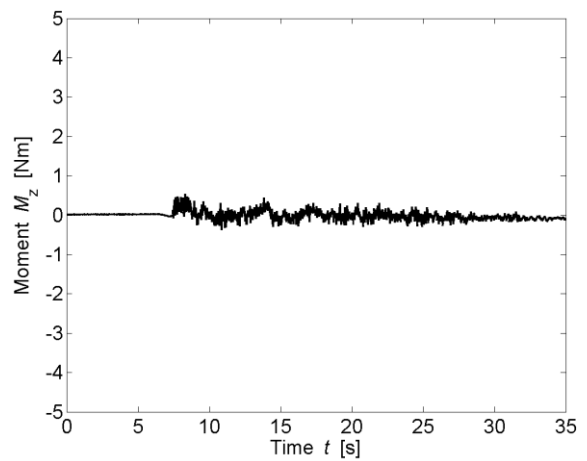
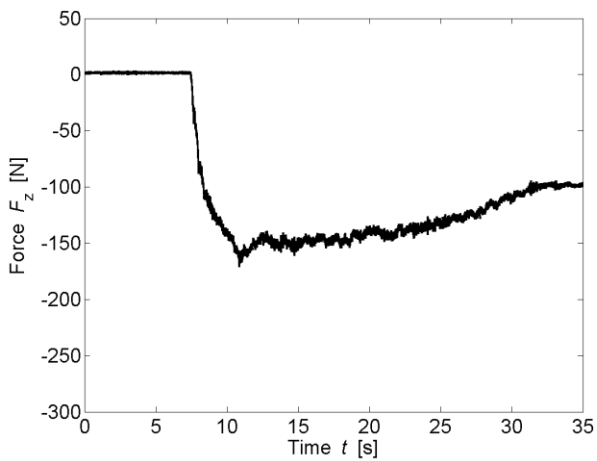
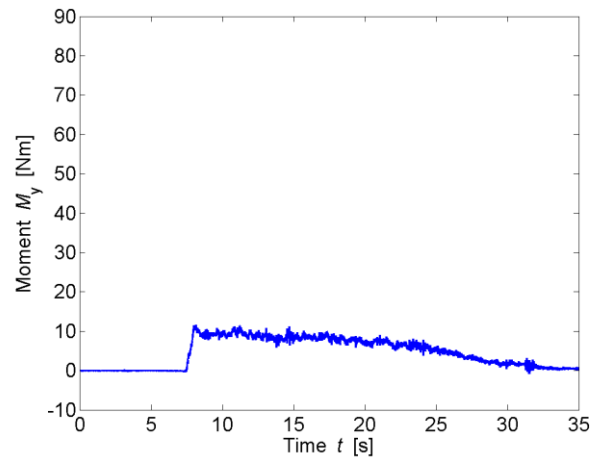
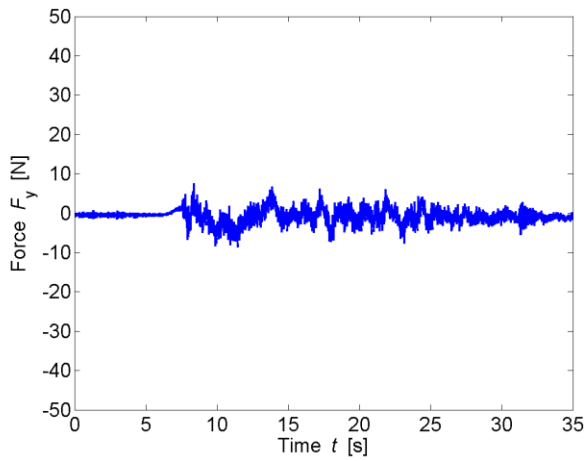
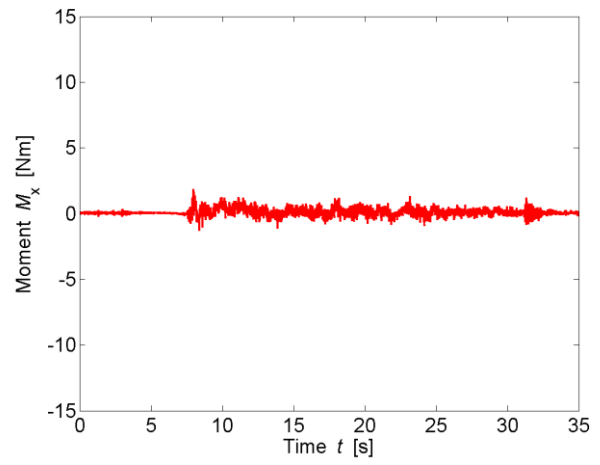
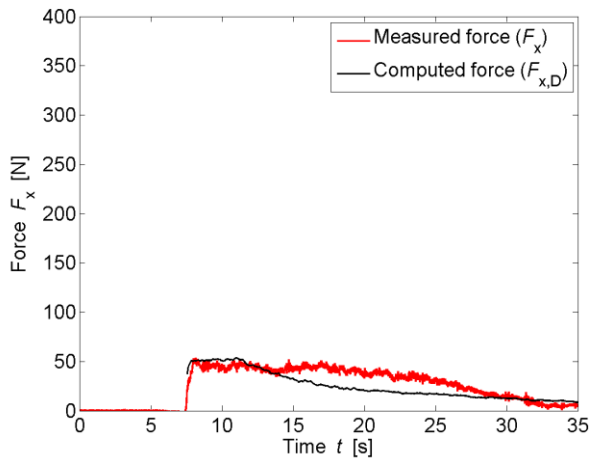


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.182	53.682	[N]
F_y	-8.610	7.566	[N]
F_z	-170.852	2.327	[N]
M_x	-1.269	1.847	[Nm]
M_y	-0.790	11.594	[Nm]
M_z	-0.379	0.540	[Nm]
Predicted Force	$F_{x,D,max}$	53.656	[N]
Initial time	t_0	7.440	[s]
Time to peak	τ_{max}	0.733	[s]
Total impulse	I_{tot}	785.180	[Ns]
Peak Impulse	I_{peak}	24.861	[Ns]
Relative impulse	I^*	0.031	[-]
Wave height at $F_{x,max}$	h_M	0.867	[-]
Resistance coefficient	C_R	1.026	[-]



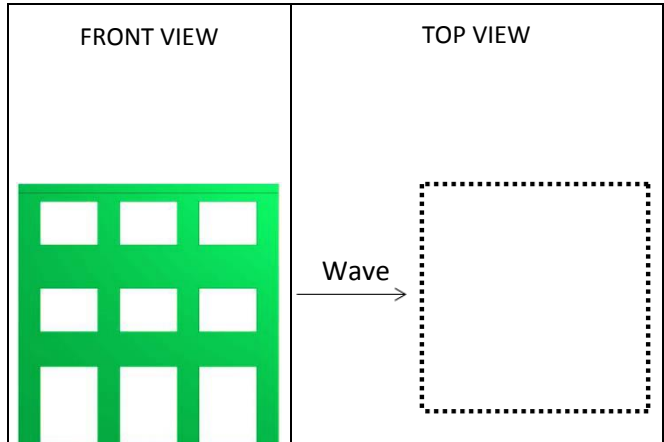
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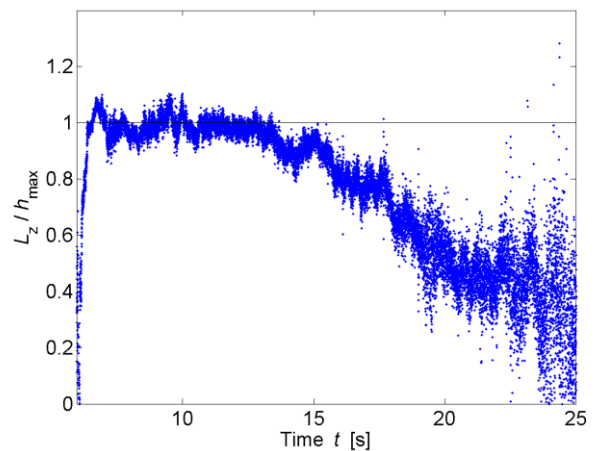
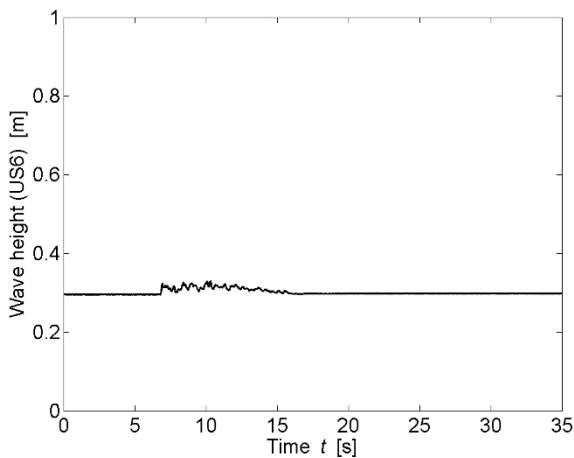
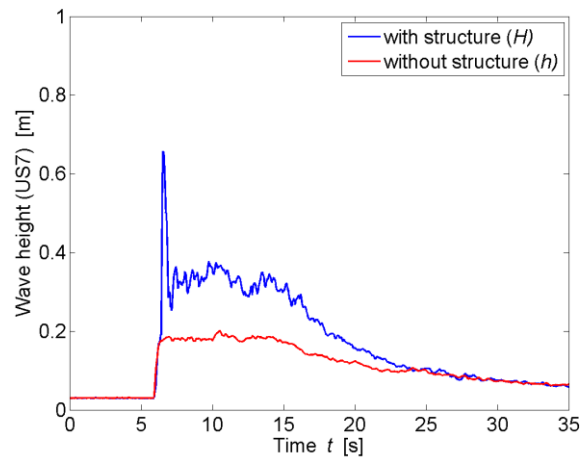
TEST PARAMETERS

Name	B42.24_0_WW3_2P_2		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	47.37	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.509	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.657	[m]

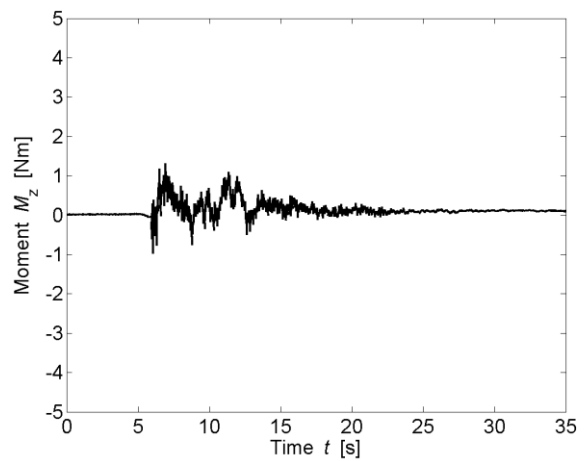
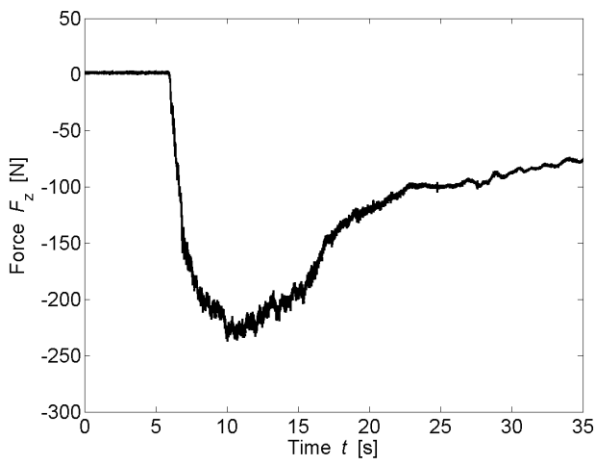
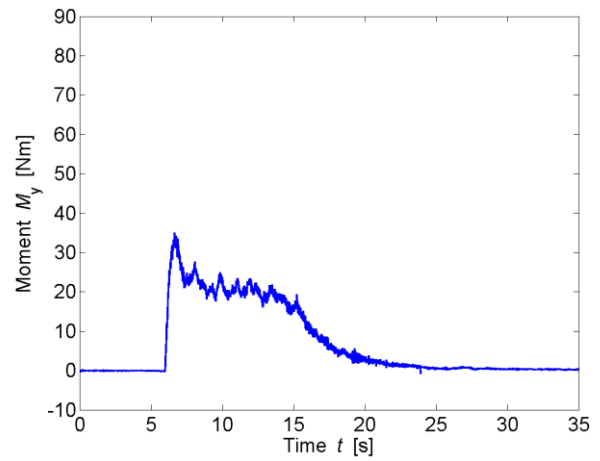
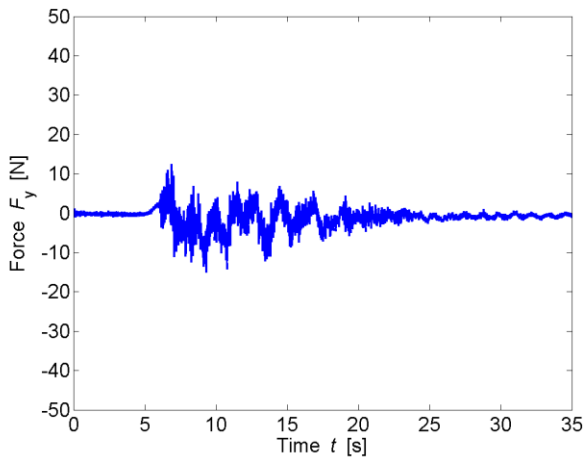
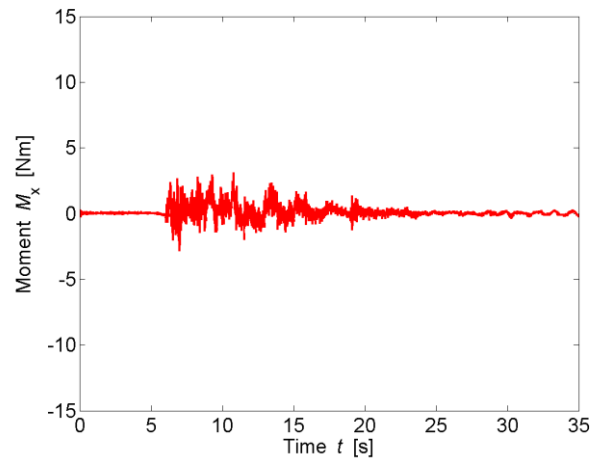
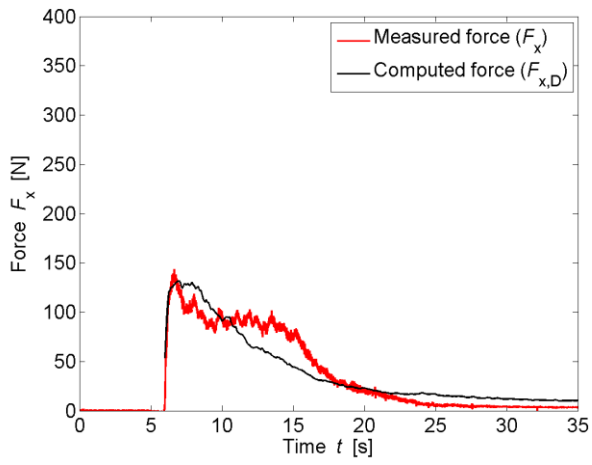


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.359	143.634	[N]
F_y	-15.046	12.460	[N]
F_z	-237.106	0.000	[N]
M_x	-2.828	3.142	[Nm]
M_y	-1.488	34.989	[Nm]
M_z	-0.972	1.318	[Nm]
Predicted Force	$F_{x,D,max}$	131.666	[N]
Initial time	t_0	5.987	[s]
Time to peak	τ_{max}	0.666	[s]
Total impulse	I_{tot}	1143.525	[Ns]
Peak Impulse	I_{peak}	67.441	[Ns]
Relative impulse	I^*	0.061	[-]
Wave height at $F_{x,max}$	h_M	0.898	[-]
Resistance coefficient	C_R	1.170	[-]



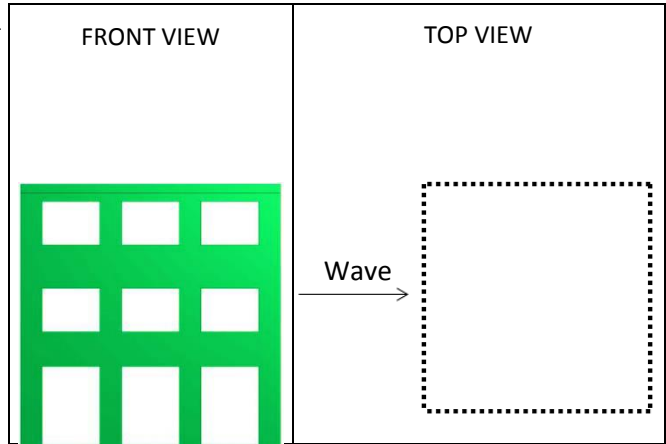
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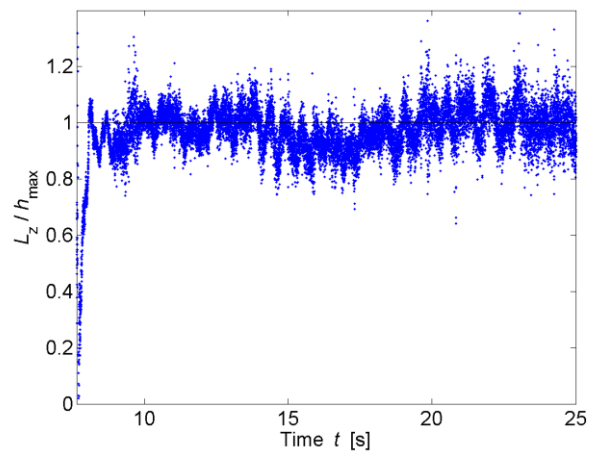
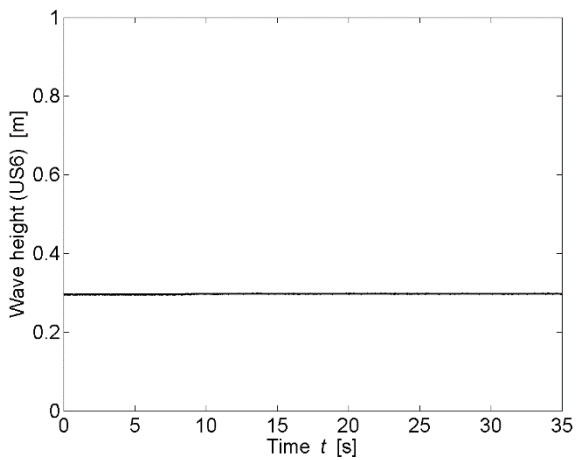
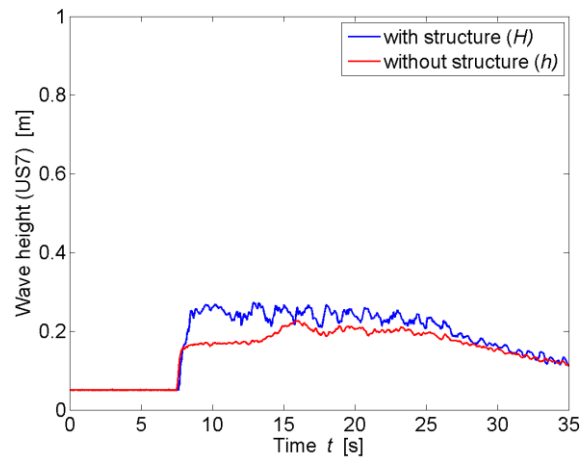
TEST PARAMETERS

Name	B42.24_0_WW5_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	51.42	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.926	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.272	[m]

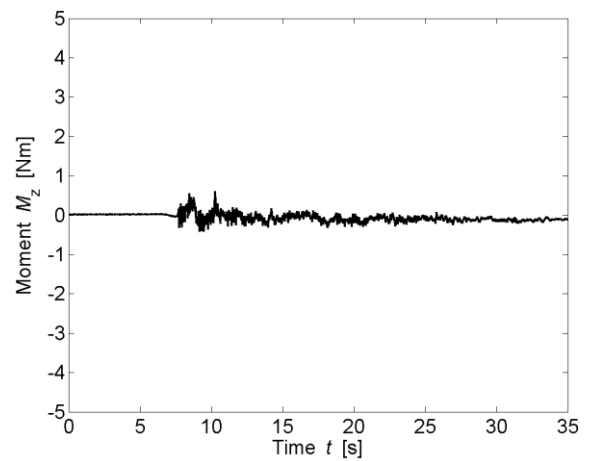
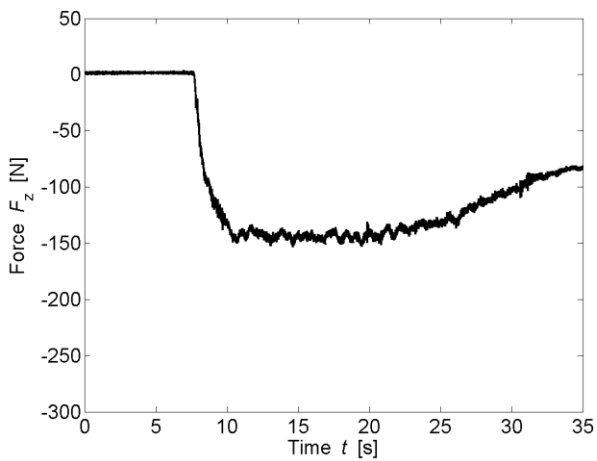
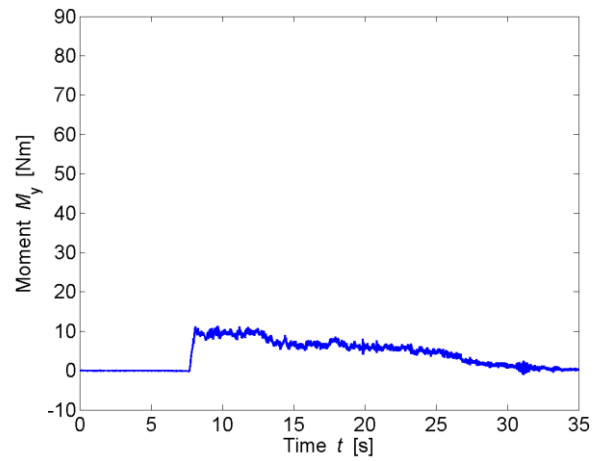
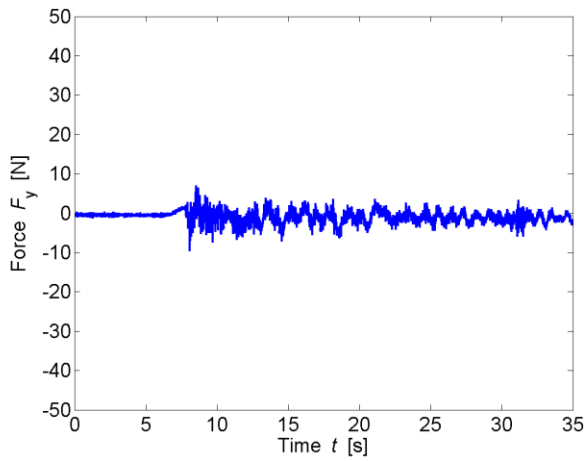
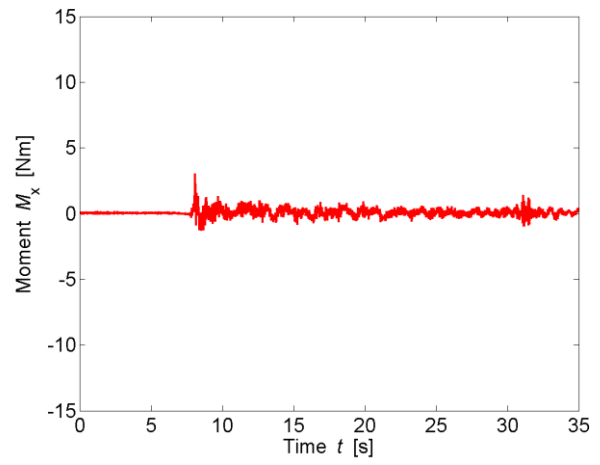
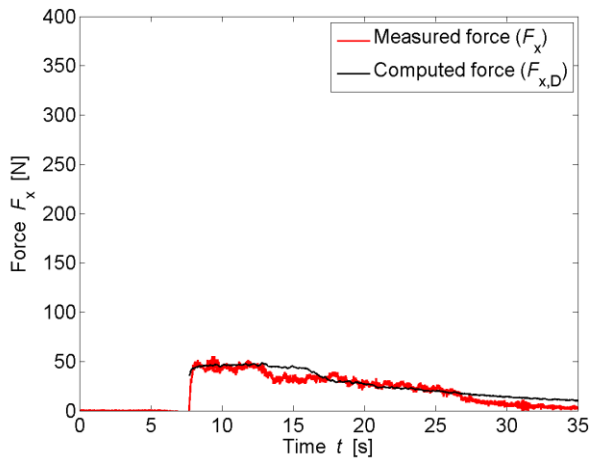


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.988	55.569	[N]
F_y	-9.540	7.003	[N]
F_z	-153.141	0.453	[N]
M_x	-1.301	3.030	[Nm]
M_y	-1.132	11.319	[Nm]
M_z	-0.411	0.610	[Nm]
Predicted Force	$F_{x,D,max}$	48.460	[N]
Initial time	t_0	7.699	[s]
Time to peak	τ_{max}	1.761	[s]
Total impulse	I_{tot}	631.371	[Ns]
Peak Impulse	I_{peak}	74.751	[Ns]
Relative impulse	I^*	0.117	[-]
Wave height at $F_{x,max}$	h_M	0.741	[-]
Resistance coefficient	C_R	0.908	[-]



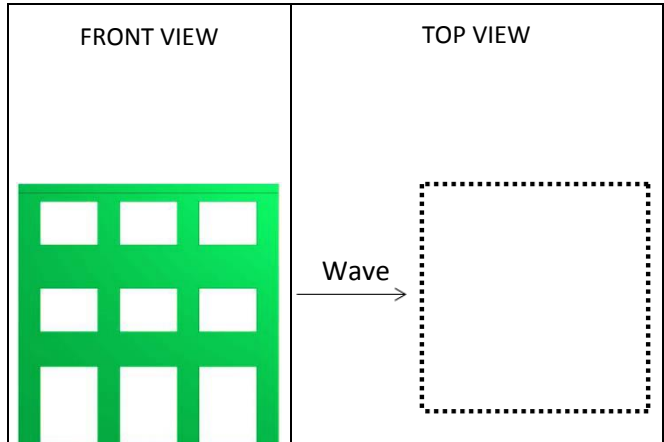
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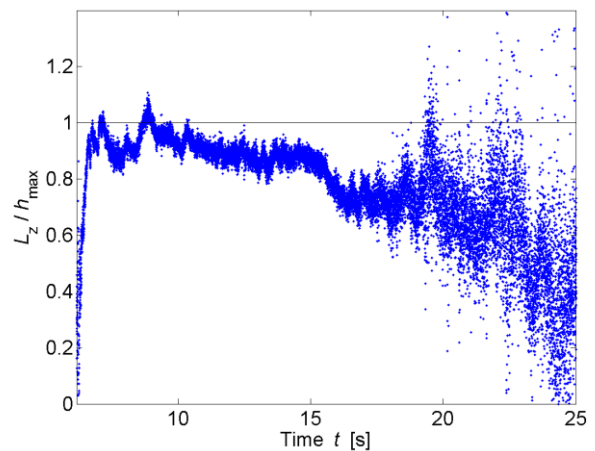
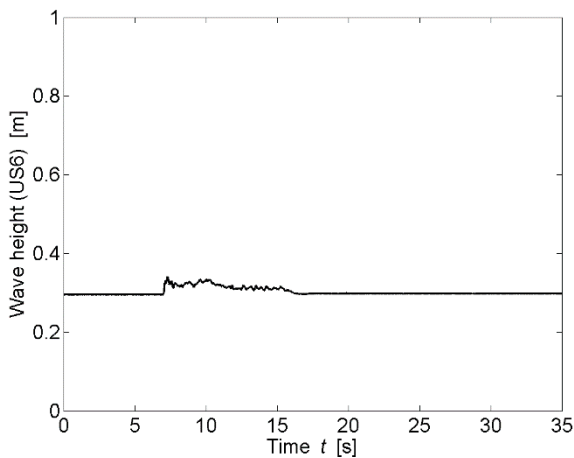
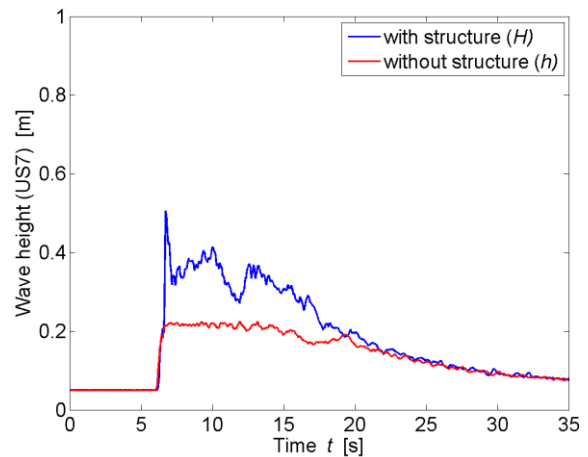
TEST PARAMETERS

Name	B42.24_0_WW5_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	41.95	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.434	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.506	[m]

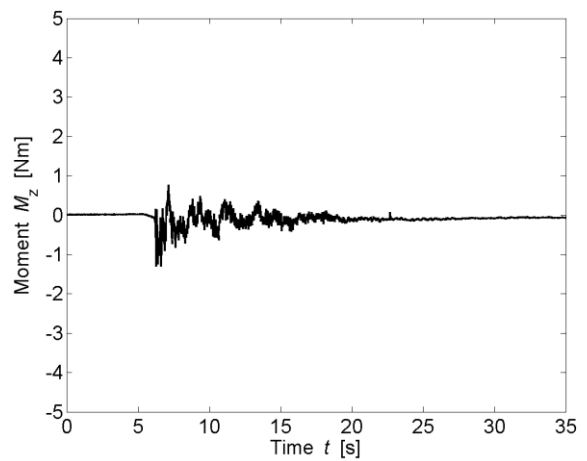
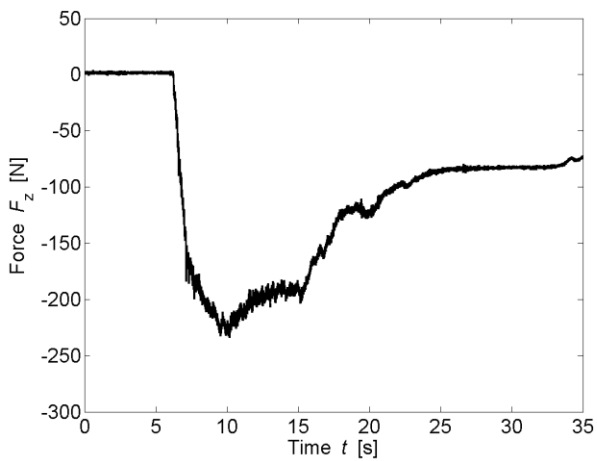
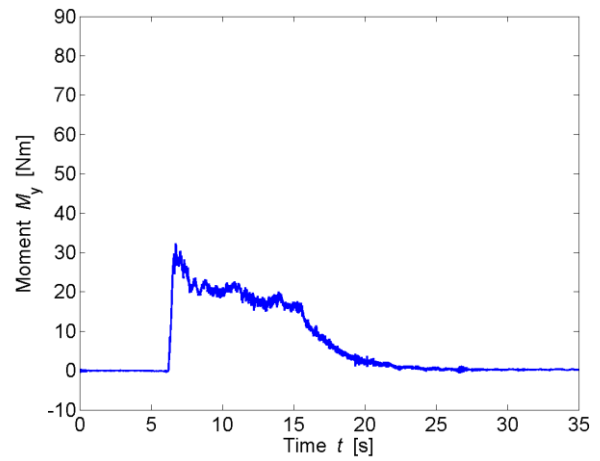
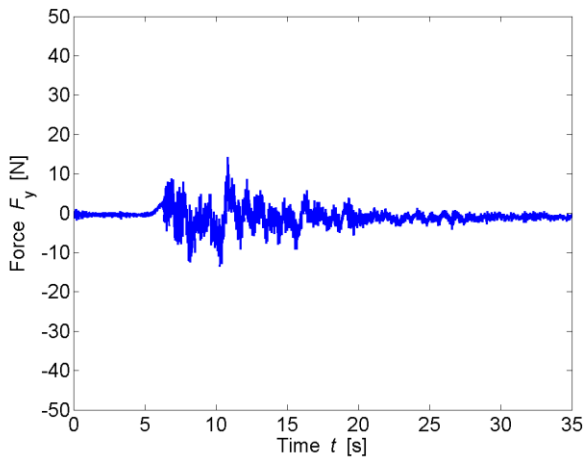
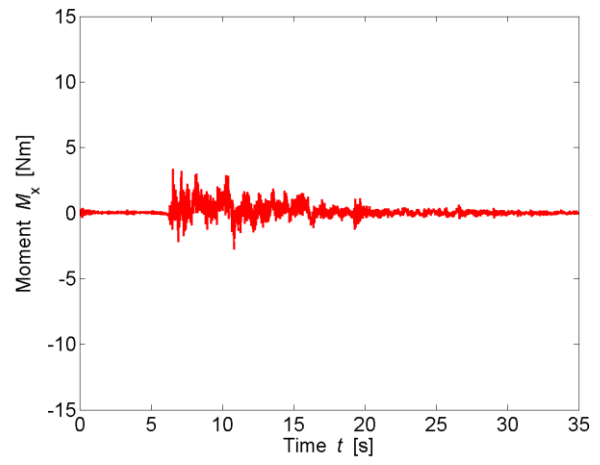
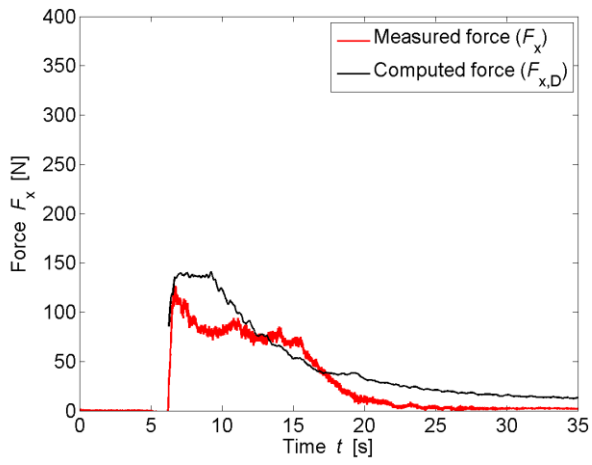


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.980	126.650	[N]
F_y	-13.529	14.296	[N]
F_z	-233.732	2.889	[N]
M_x	-2.776	3.366	[Nm]
M_y	-0.617	32.299	[Nm]
M_z	-1.303	0.767	[Nm]
Predicted Force	$F_{x,D,max}$	140.963	[N]
Initial time	t_0	6.205	[s]
Time to peak	τ_{max}	0.524	[s]
Total impulse	I_{tot}	951.997	[Ns]
Peak Impulse	I_{peak}	39.852	[Ns]
Relative impulse	I^*	0.043	[-]
Wave height at $F_{x,max}$	h_M	0.949	[-]
Resistance coefficient	C_R	1.063	[-]

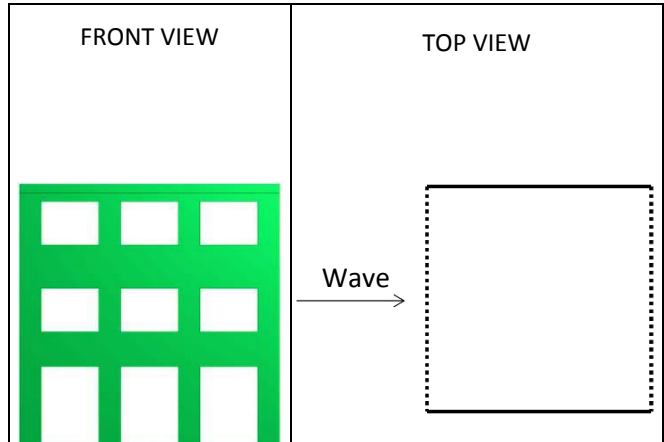


* All parameters are presented and defined at the beginning of the Appendix



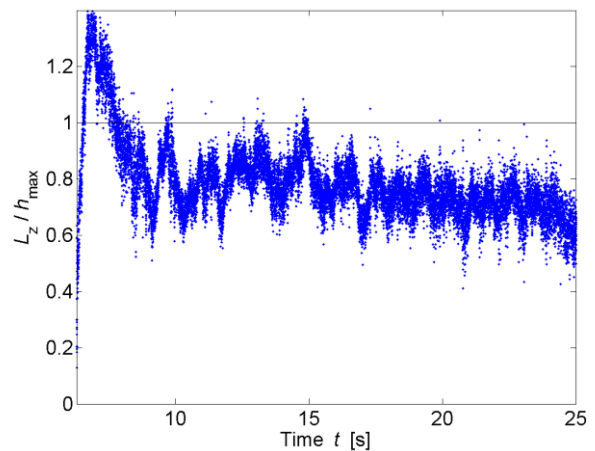
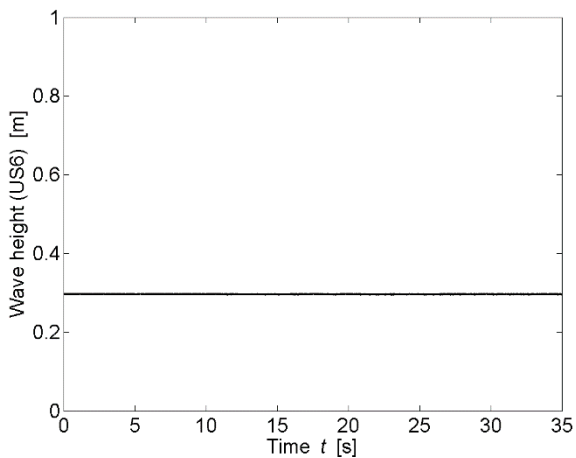
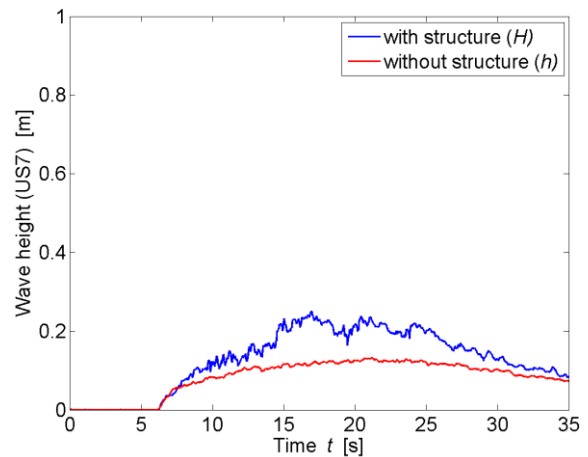
TEST PARAMETERS

Name	B42.24_F_WD1_1		
Repetitions	4		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	46.41	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.340	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.251	[m]

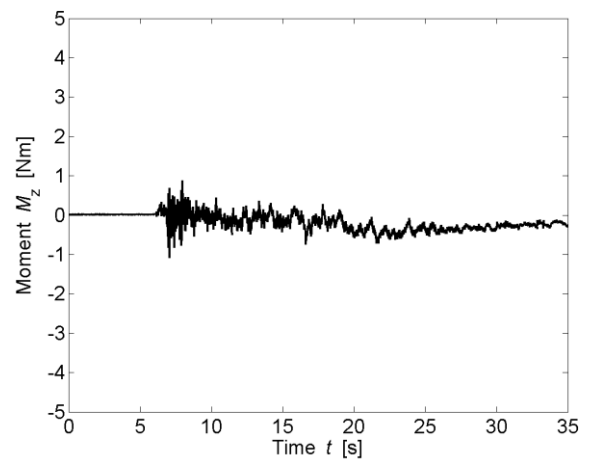
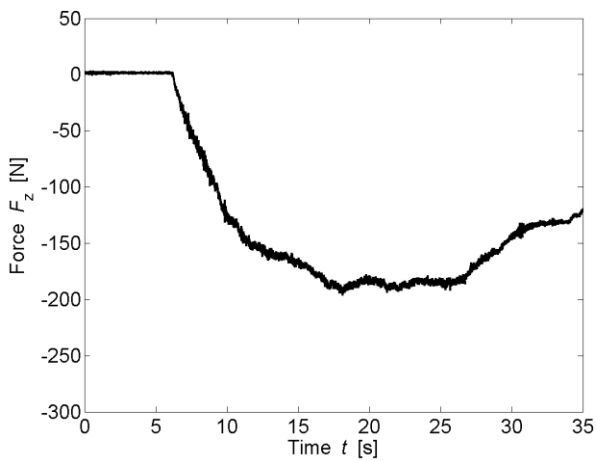
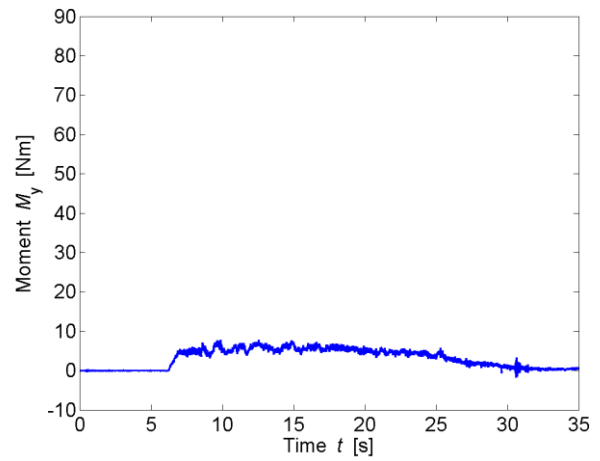
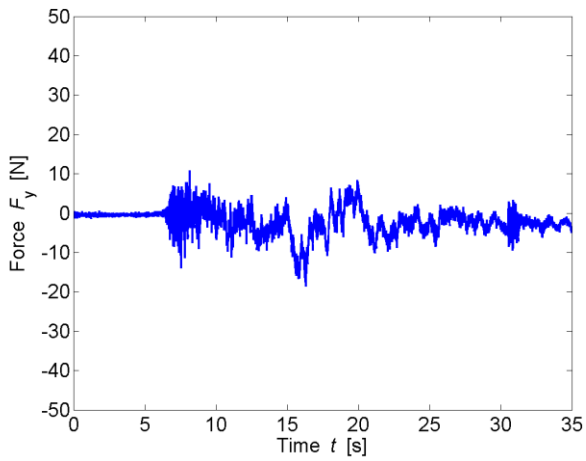
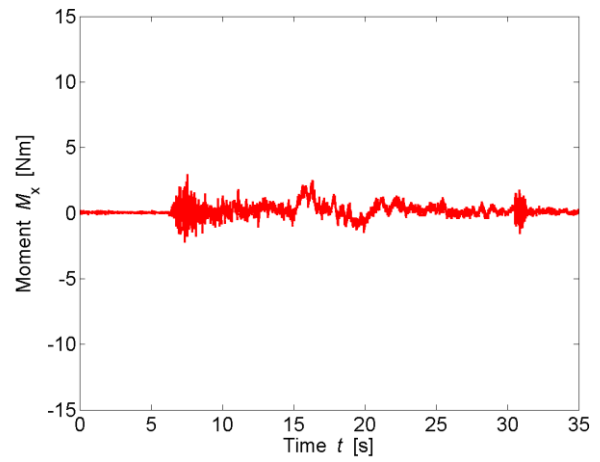
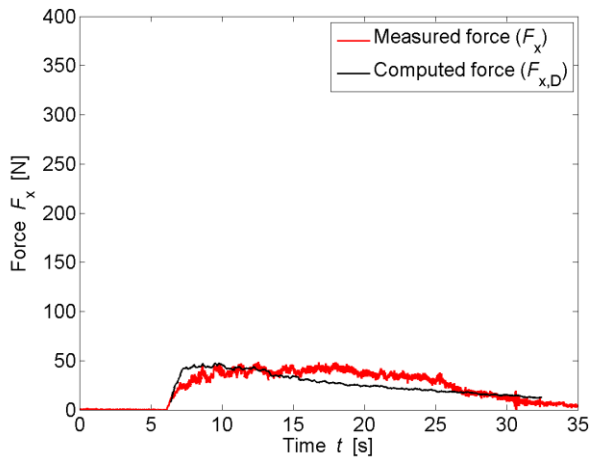


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.214	48.504	[N]
F_y	-18.570	10.796	[N]
F_z	-196.154	0.000	[N]
M_x	-2.228	2.965	[Nm]
M_y	-1.690	7.745	[Nm]
M_z	-1.089	0.875	[Nm]
Predicted Force	$F_{x,D,max}$	47.332	[N]
Initial time	t_0	6.353	[s]
Time to peak	τ_{max}	6.212	[s]
Total impulse	I_{tot}	720.387	[Ns]
Peak Impulse	I_{peak}	208.160	[Ns]
Relative impulse	I^*	0.282	[-]
Wave height at $F_{x,max}$	h_M	0.767	[-]
Resistance coefficient	C_R	1.205	[-]

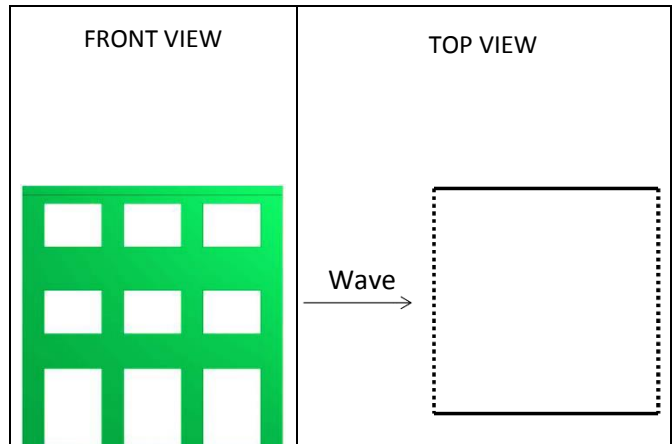


* All parameters are presented and defined at the beginning of the Appendix



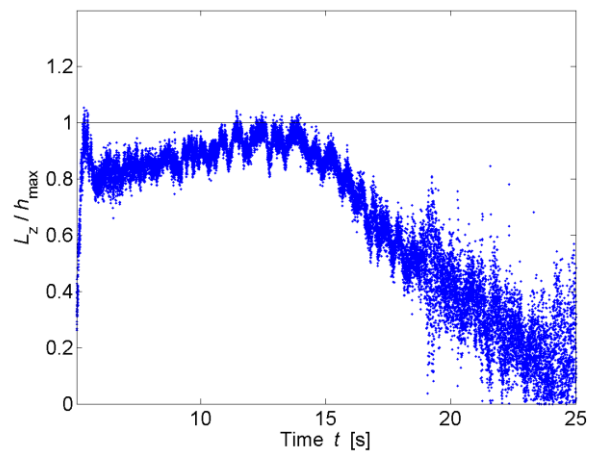
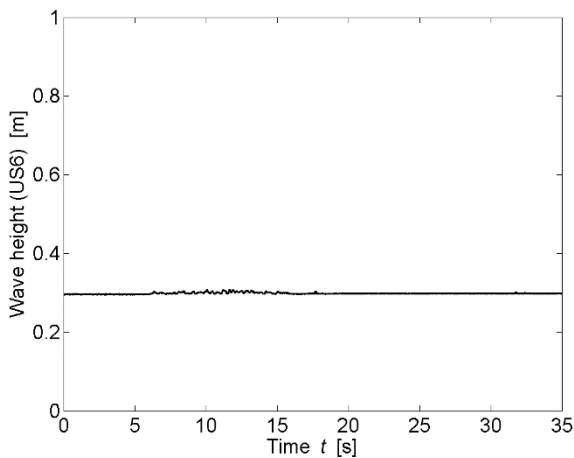
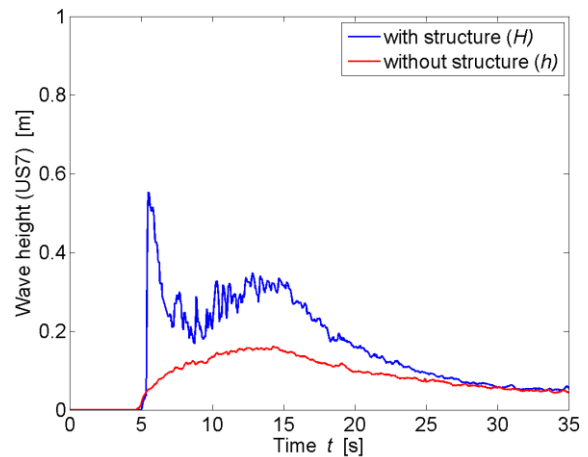
TEST PARAMETERS

Name	B42.24_F_WD2_5		
Repetitions	7		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	49.71	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.077	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.554	[m]

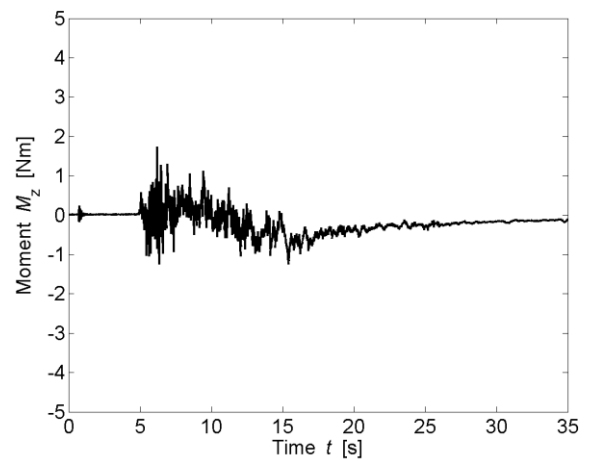
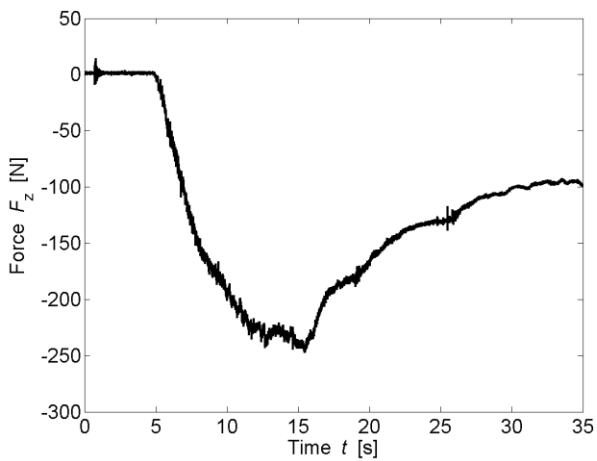
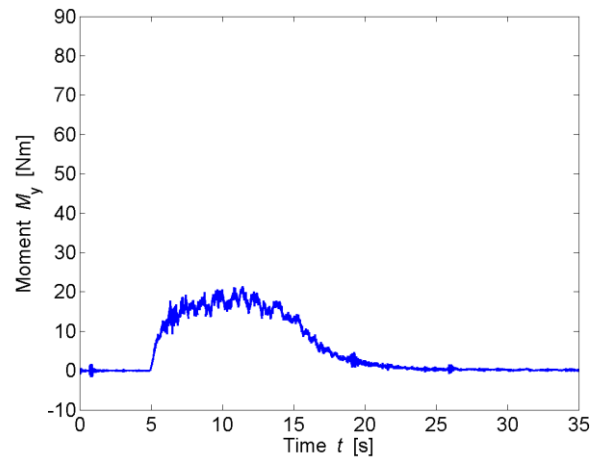
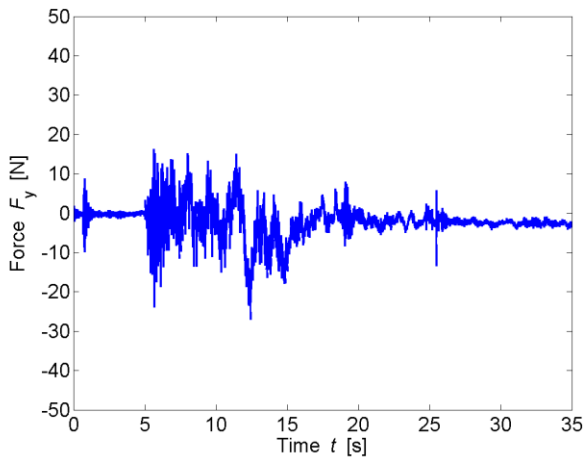
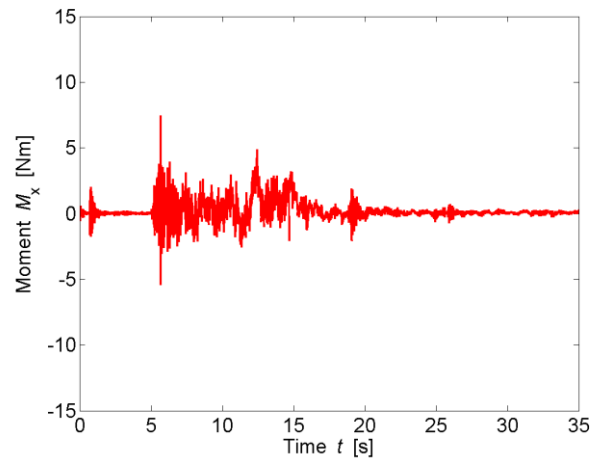
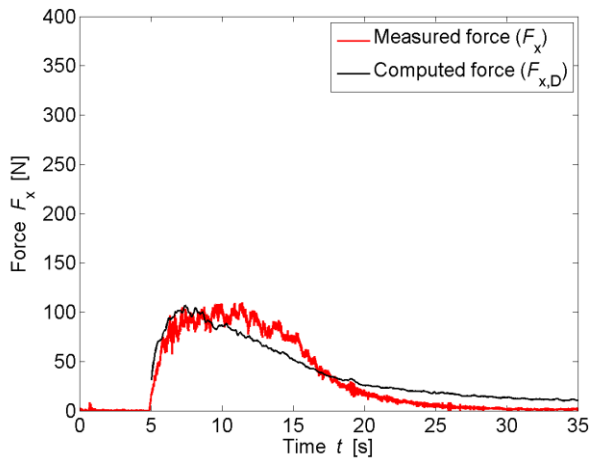


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.351	109.908	[N]
F_y	-27.013	16.327	[N]
F_z	-247.321	0.000	[N]
M_x	-5.431	7.439	[Nm]
M_y	-1.575	21.418	[Nm]
M_z	-1.253	1.730	[Nm]
Predicted Force	$F_{x,D,max}$	106.796	[N]
Initial time	t_0	5.097	[s]
Time to peak	τ_{max}	6.322	[s]
Total impulse	I_{tot}	1106.743	[Ns]
Peak Impulse	I_{peak}	539.366	[Ns]
Relative impulse	I^*	0.506	[-]
Wave height at $F_{x,max}$	h_M	0.914	[-]
Resistance coefficient	C_R	1.333	[-]



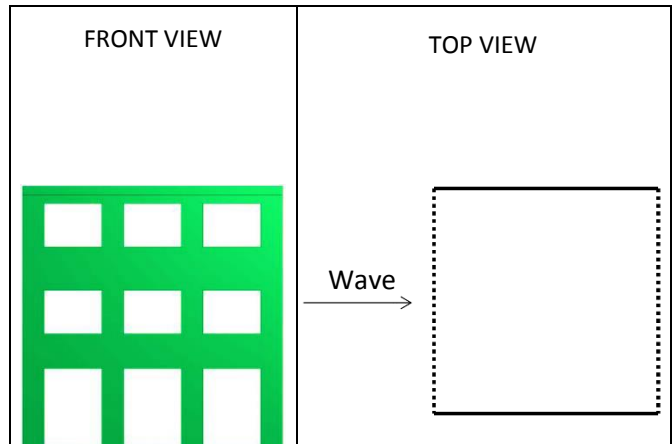
* All parameters are presented and defined at the beginning of the Appendix



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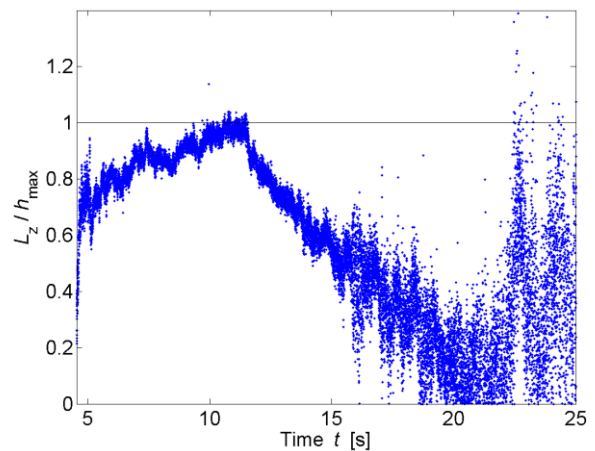
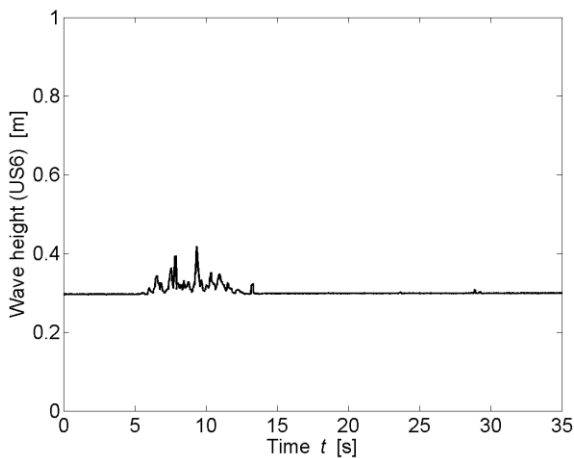
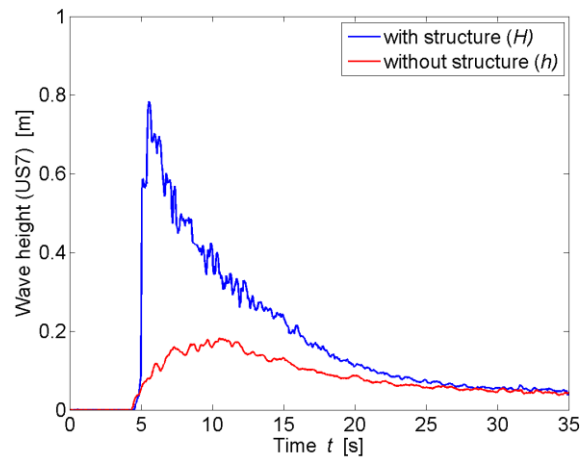
TEST PARAMETERS

Name	B42.24_F_WD3_6		
Repetitions	7		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	51.65	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.557	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.784	[m]

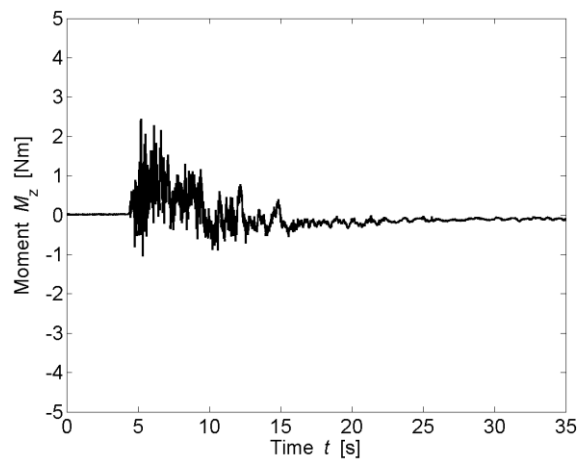
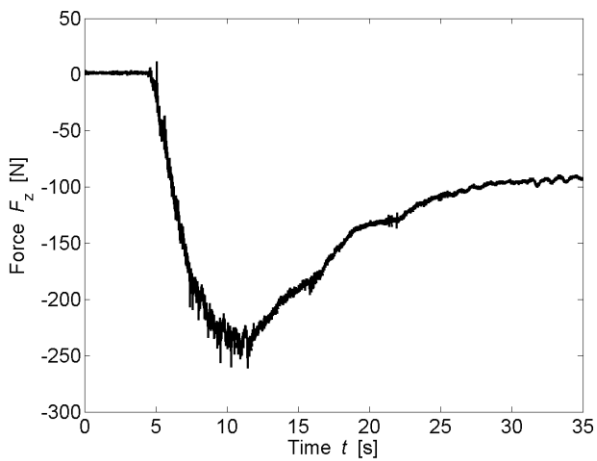
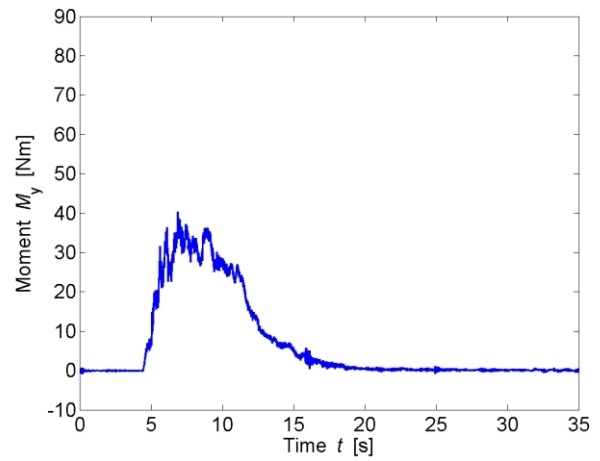
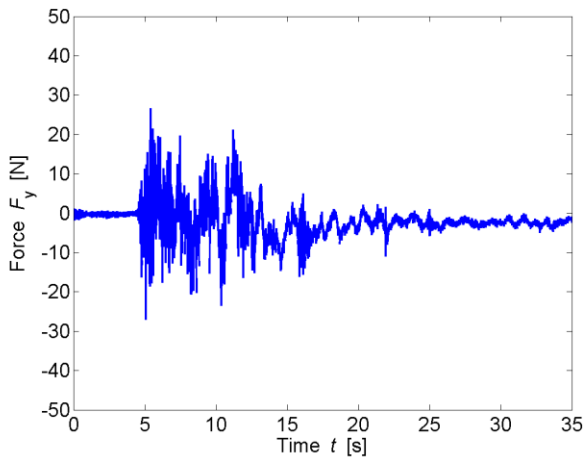
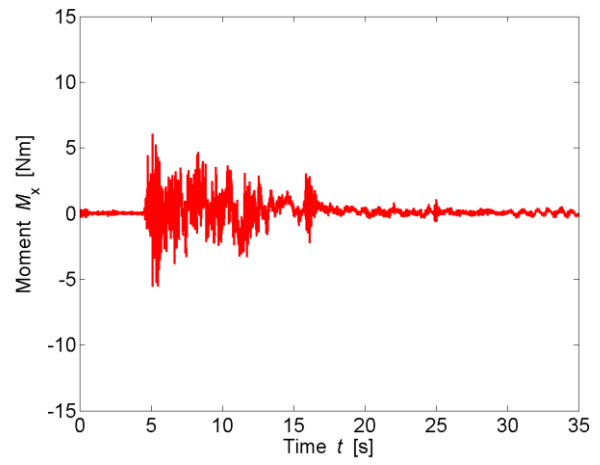
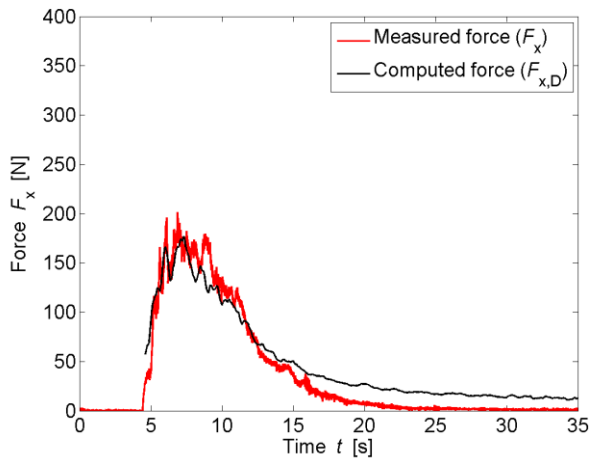


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.020	201.216	[N]
F_y	-27.111	26.581	[N]
F_z	-261.284	11.604	[N]
M_x	-5.535	6.079	[Nm]
M_y	-1.227	40.366	[Nm]
M_z	-1.042	2.446	[Nm]
Predicted Force	$F_{x,D,max}$	176.630	[N]
Initial time	t_0	4.598	[s]
Time to peak	τ_{max}	2.295	[s]
Total impulse	I_{tot}	1250.040	[Ns]
Peak Impulse	I_{peak}	272.012	[Ns]
Relative impulse	I^*	0.224	[-]
Wave height at $F_{x,max}$	h_M	0.763	[-]
Resistance coefficient	C_R	1.073	[-]

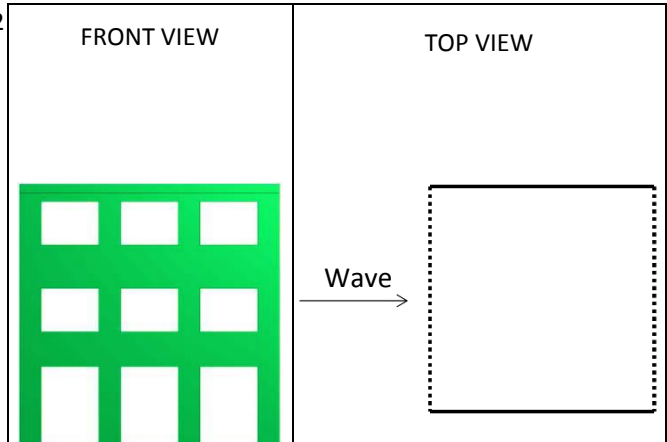


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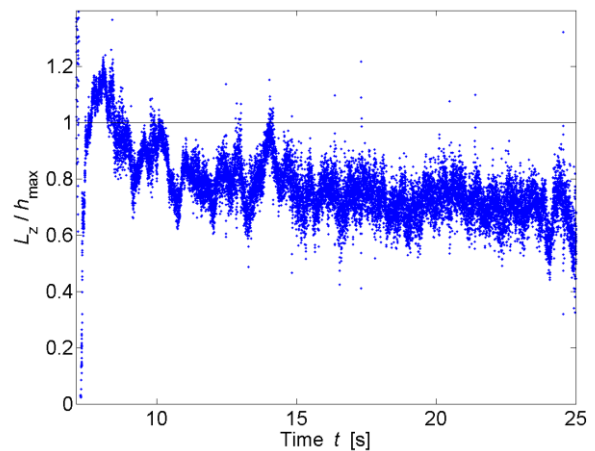
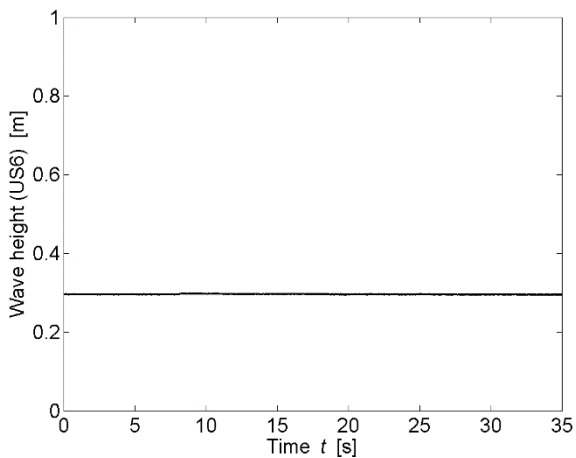
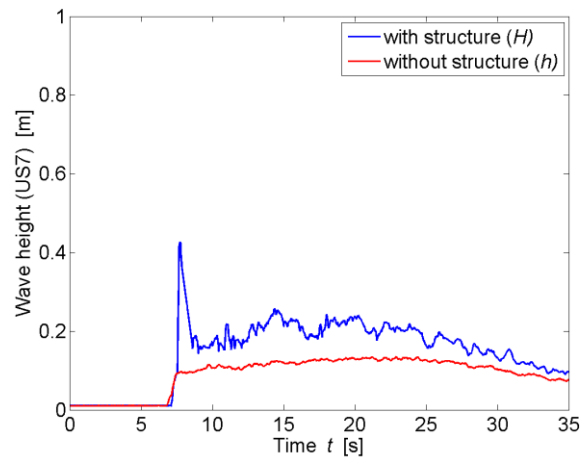
TEST PARAMETERS

Name	B42.24_F_WW1_1P_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	46.64	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.111	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.427	[m]

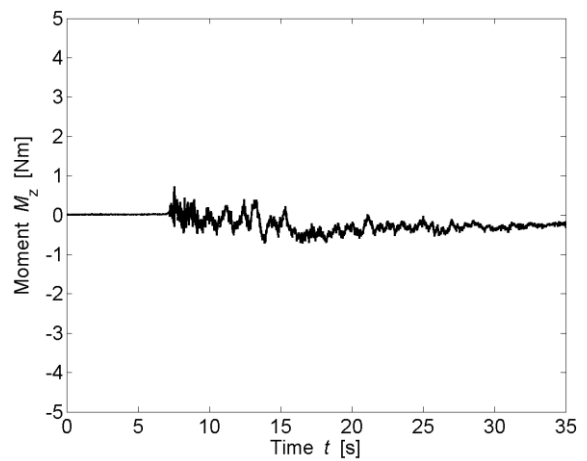
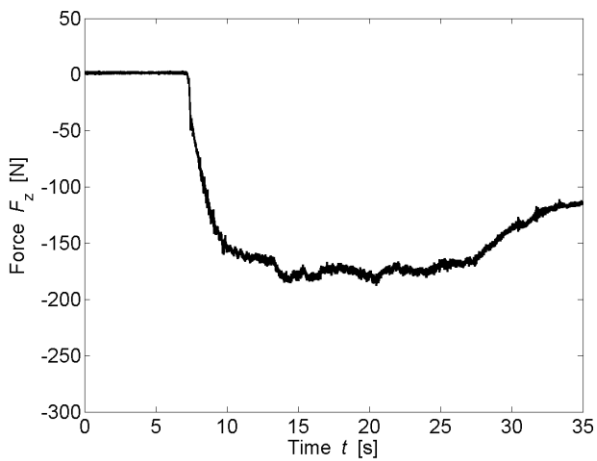
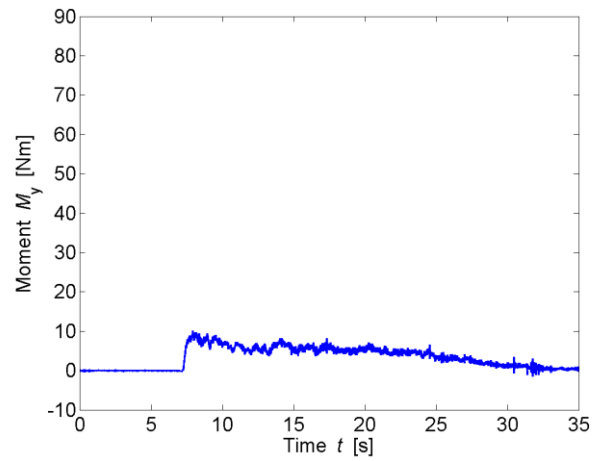
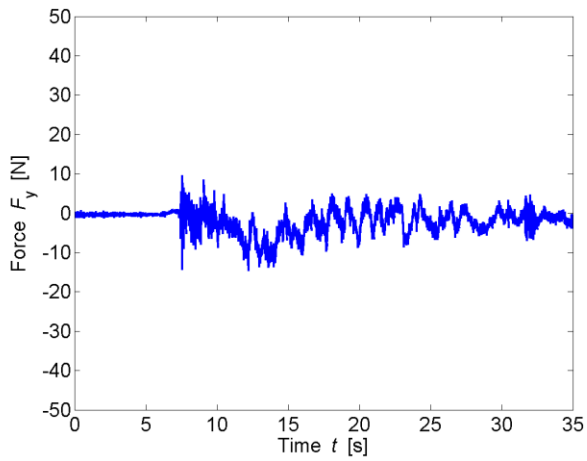
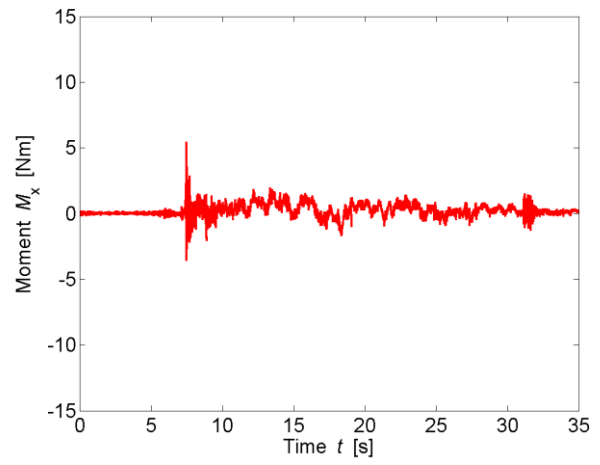
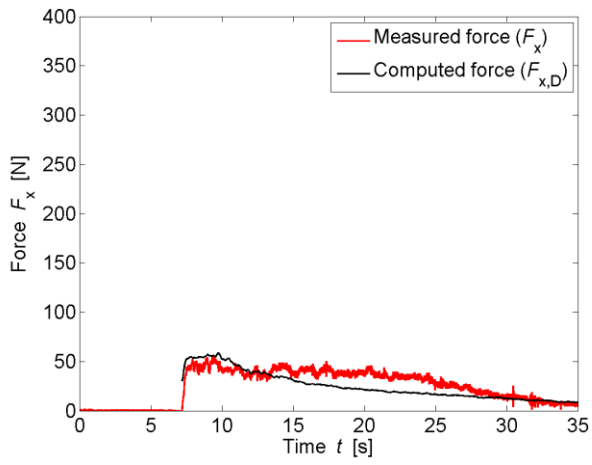


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.359	55.762	[N]
F_y	-14.630	9.671	[N]
F_z	-187.814	2.046	[N]
M_x	-3.211	2.360	[Nm]
M_y	-1.452	10.058	[Nm]
M_z	-0.720	0.726	[Nm]
Predicted Force	$F_{x,D,max}$	58.683	[N]
Initial time	t_0	7.176	[s]
Time to peak	τ_{max}	2.155	[s]
Total impulse	I_{tot}	755.091	[Ns]
Peak Impulse	I_{peak}	89.582	[Ns]
Relative impulse	I^*	0.116	[-]
Wave height at $F_{x,max}$	h_M	0.762	[-]
Resistance coefficient	C_R	0.973	[-]

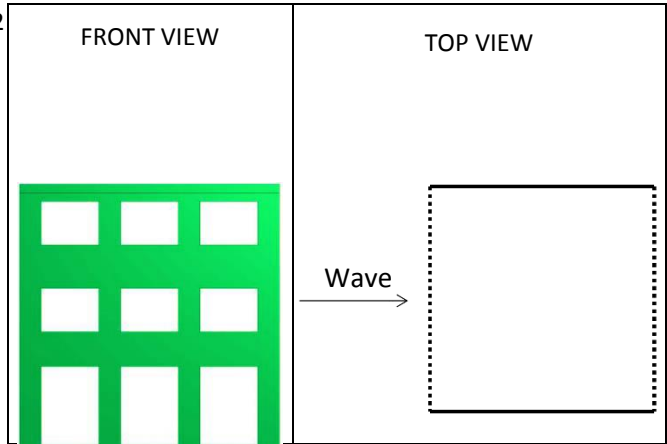


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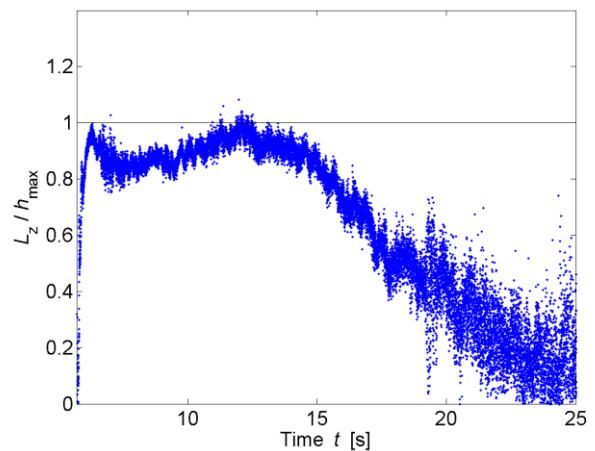
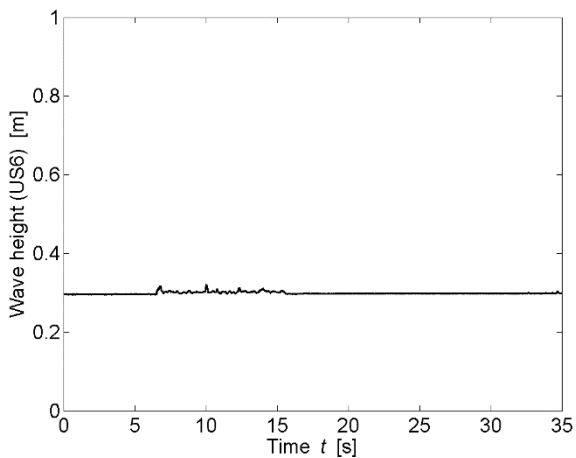
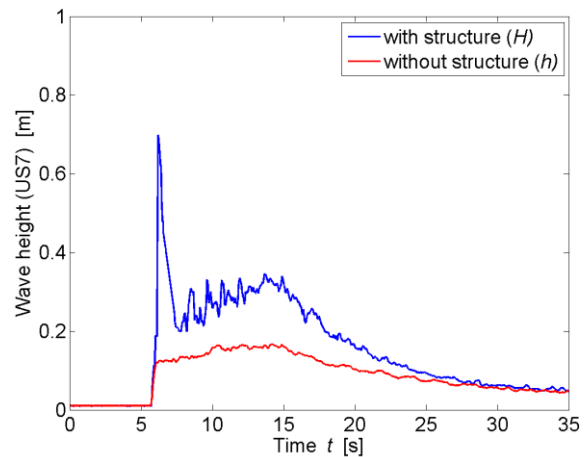
TEST PARAMETERS

Name	B42.24_F_WW1_2P_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	50.40	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.674	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.698	[m]

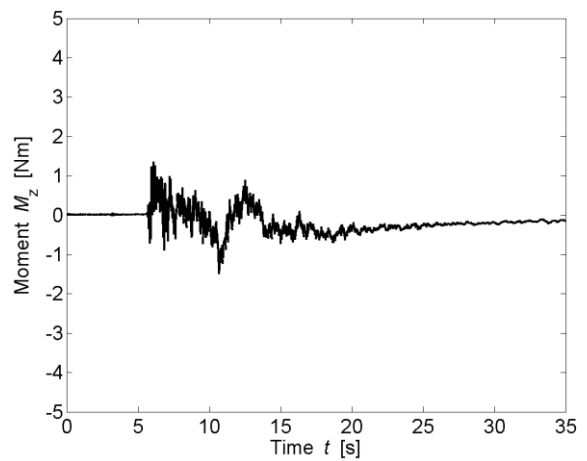
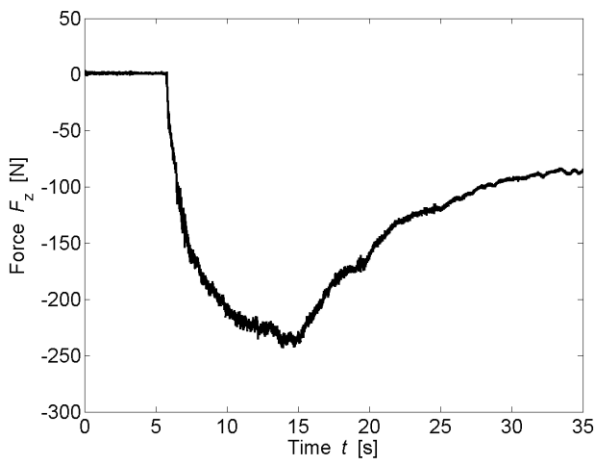
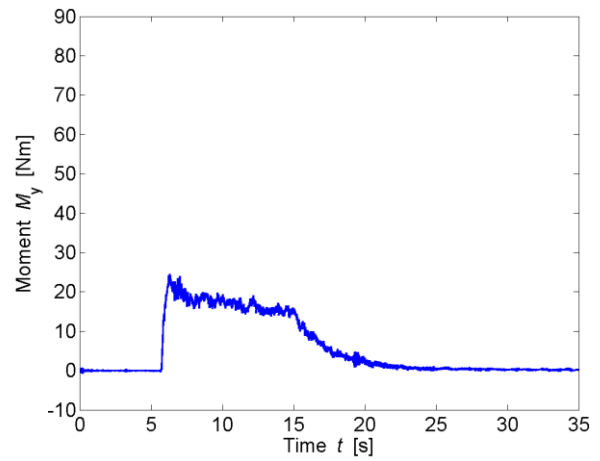
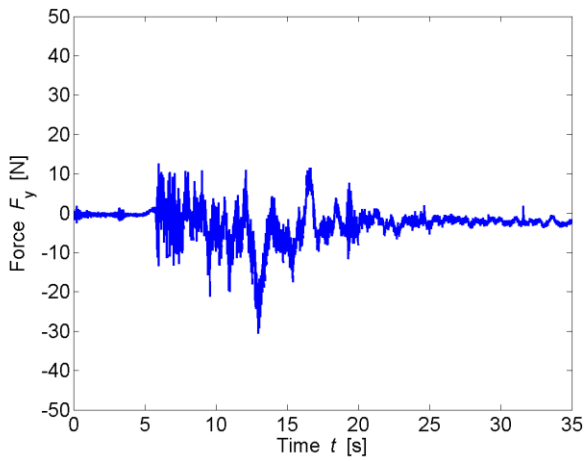
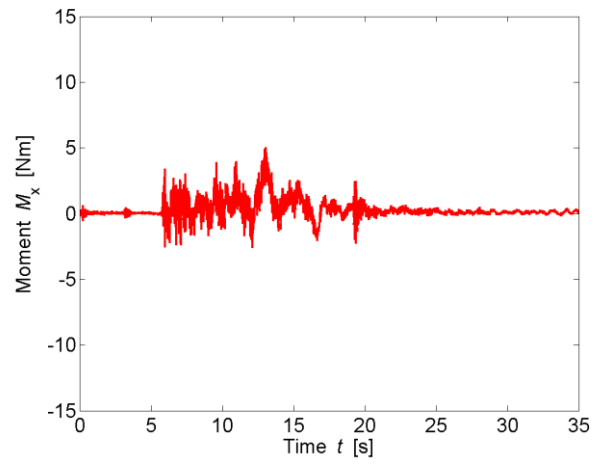
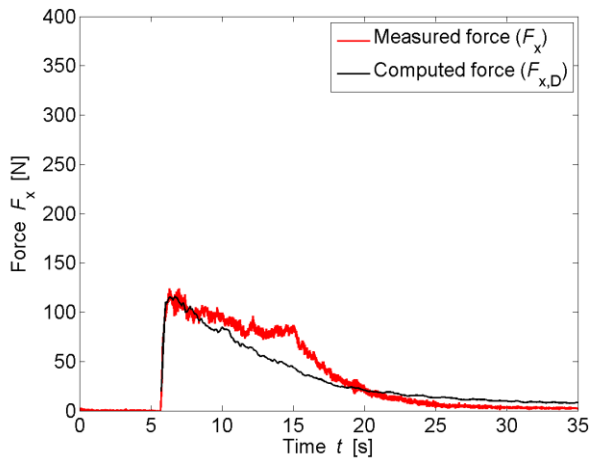


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.907	123.912	[N]
F_y	-30.562	12.656	[N]
F_z	-243.104	2.514	[N]
M_x	-2.614	5.065	[Nm]
M_y	-0.936	24.495	[Nm]
M_z	-1.496	1.359	[Nm]
Predicted Force	$F_{x,D,max}$	115.983	[N]
Initial time	t_0	5.743	[s]
Time to peak	τ_{max}	0.585	[s]
Total impulse	I_{tot}	1142.901	[Ns]
Peak Impulse	I_{peak}	51.262	[Ns]
Relative impulse	I^*	0.047	[-]
Wave height at $F_{x,max}$	h_M	0.749	[-]
Resistance coefficient	C_R	1.019	[-]

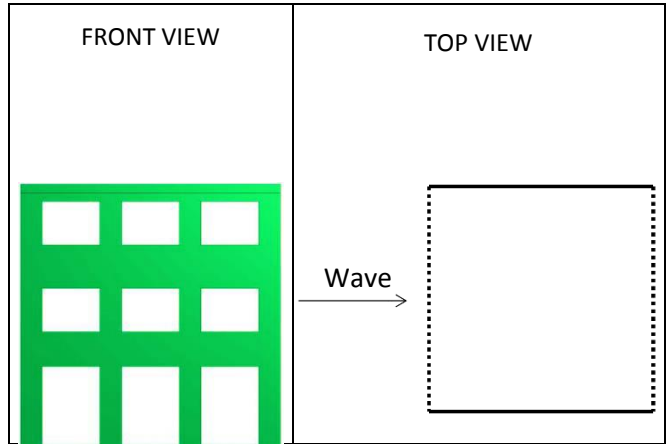


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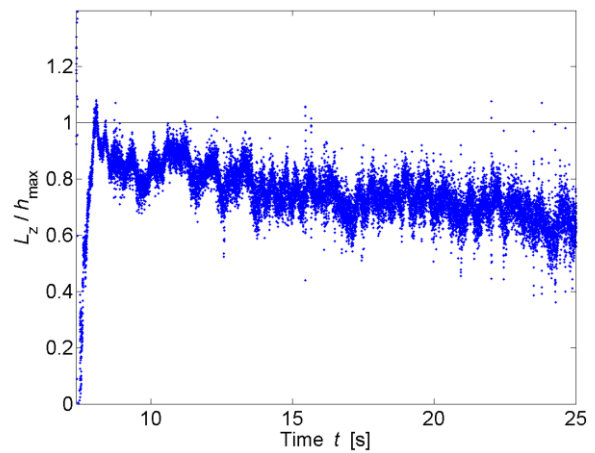
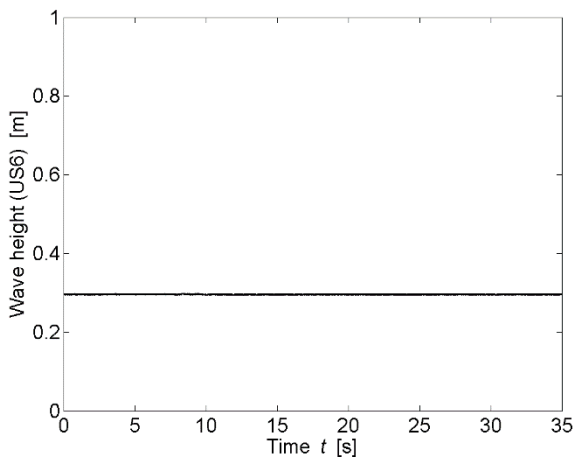
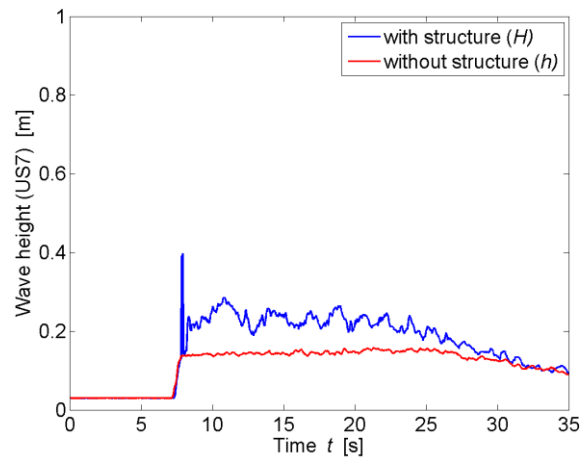
TEST PARAMETERS

Name	B42.24_F_WW3_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	49.37	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.964	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.397	[m]

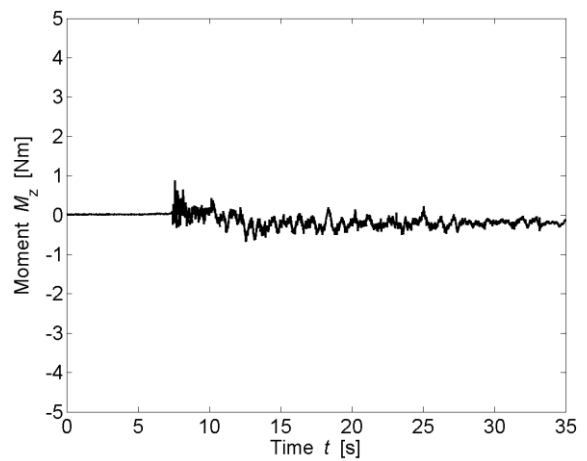
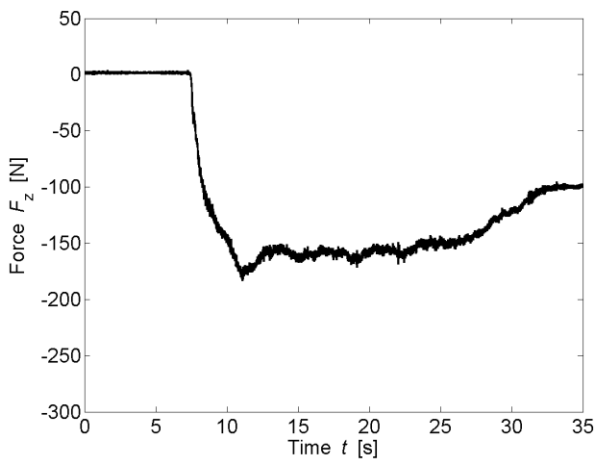
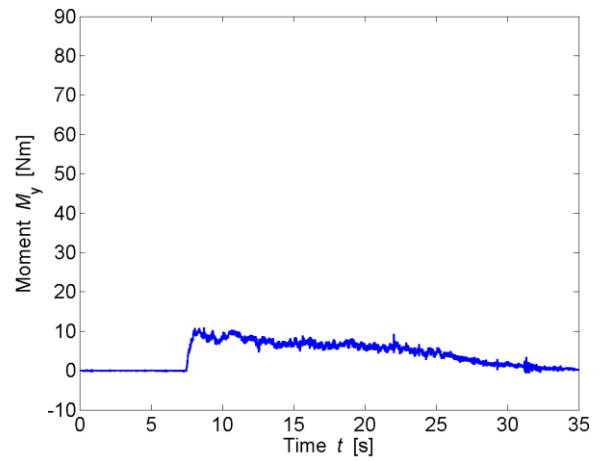
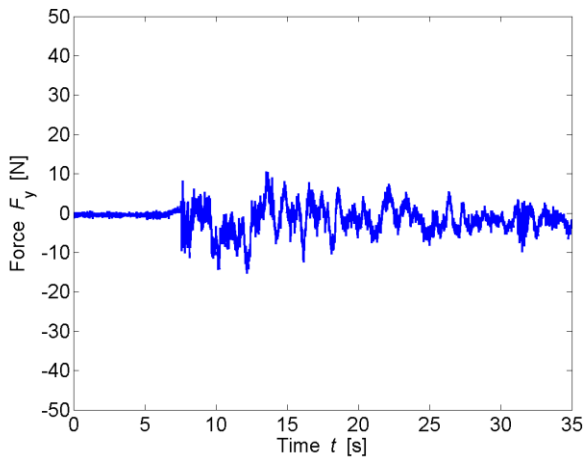
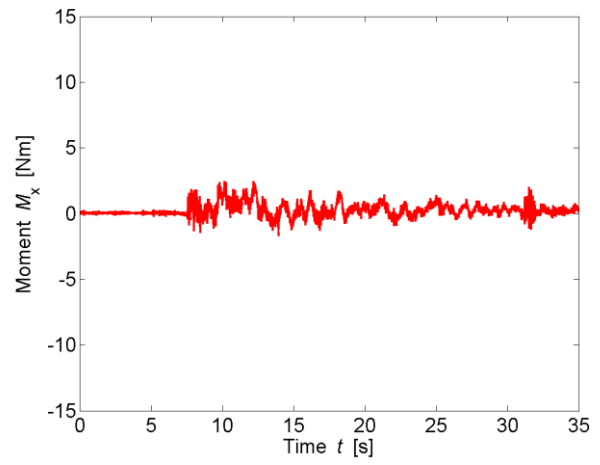
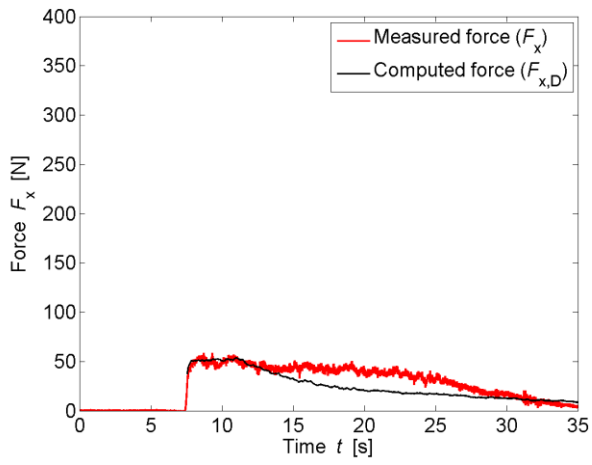


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.577	58.762	[N]
F_y	-15.340	10.625	[N]
F_z	-183.316	0.921	[N]
M_x	-1.707	2.488	[Nm]
M_y	-0.680	10.861	[Nm]
M_z	-0.675	0.878	[Nm]
Predicted Force	$F_{x,D,max}$	53.656	[N]
Initial time	t_0	7.424	[s]
Time to peak	τ_{max}	1.284	[s]
Total impulse	I_{tot}	818.439	[Ns]
Peak Impulse	I_{peak}	56.610	[Ns]
Relative impulse	I^*	0.068	[-]
Wave height at $F_{x,max}$	h_M	0.872	[-]
Resistance coefficient	C_R	1.028	[-]

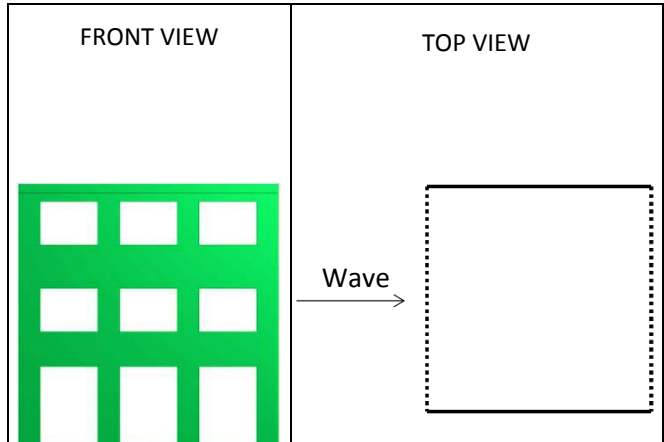


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TEST PARAMETERS

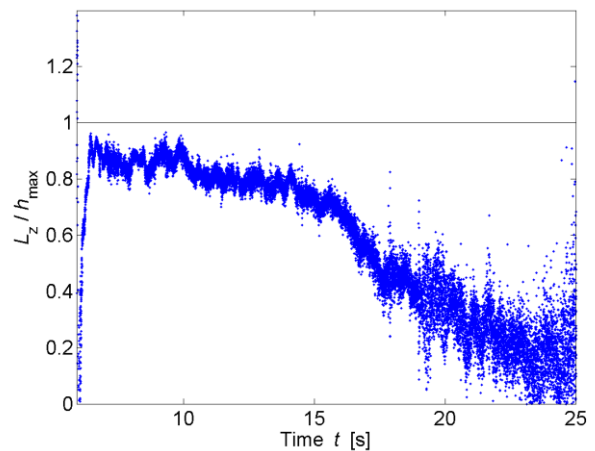
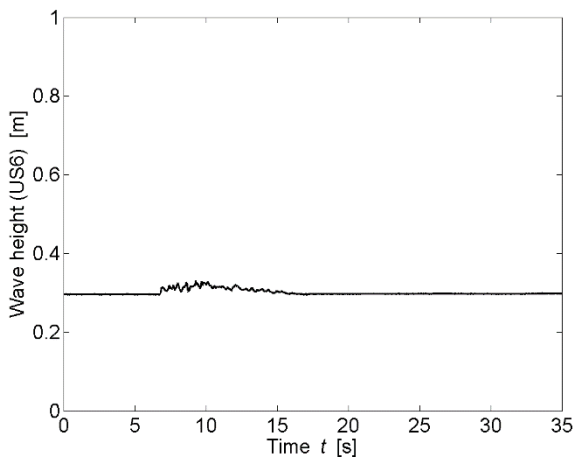
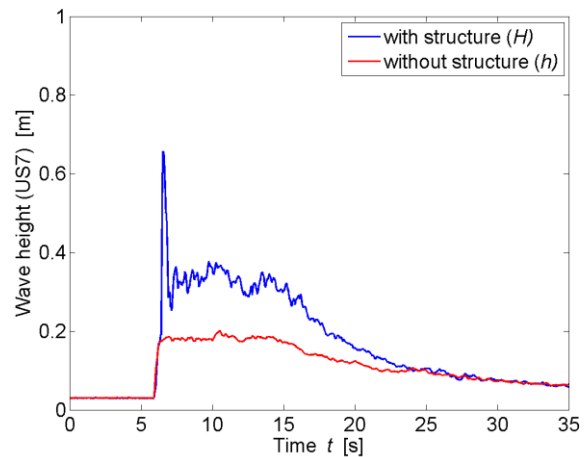
Name	B42.24_F_WW3_2P_1		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	47.37	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.490	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.643	[m]



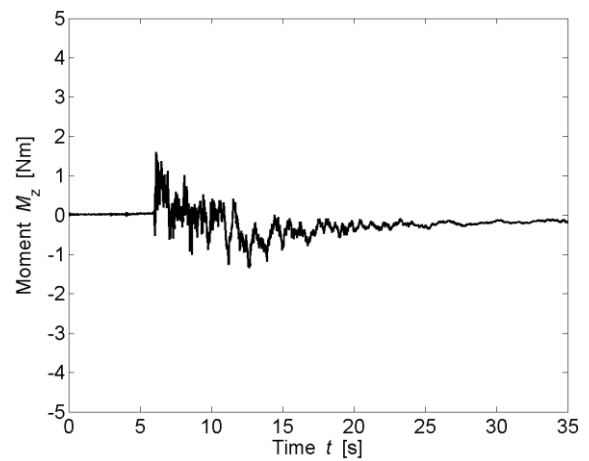
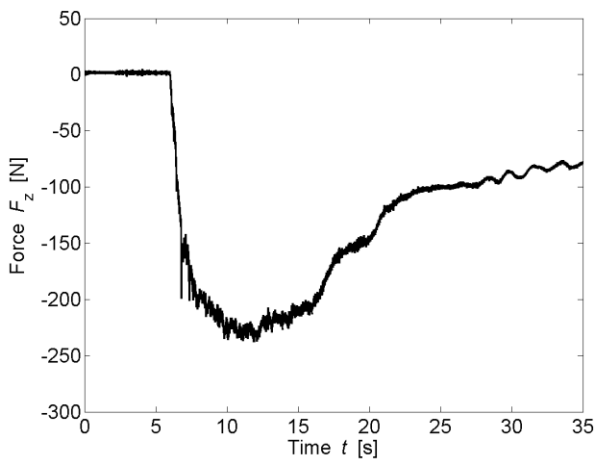
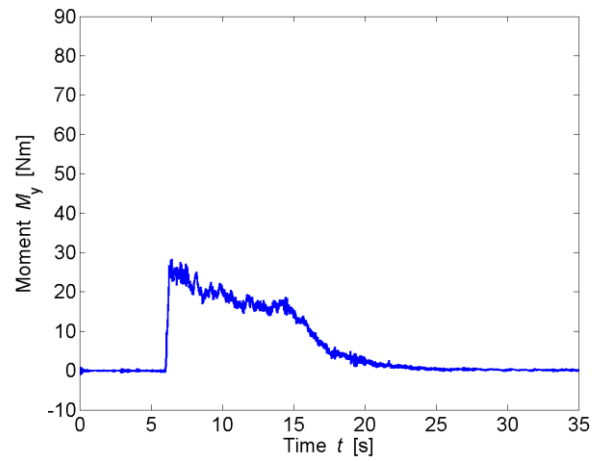
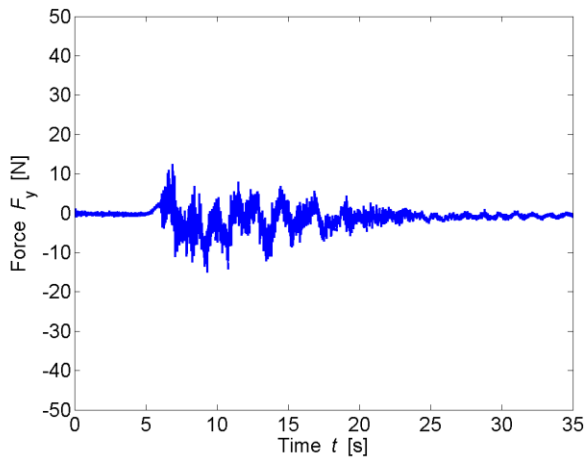
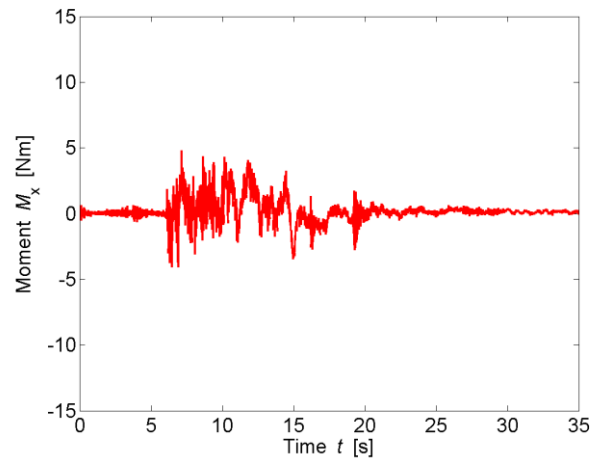
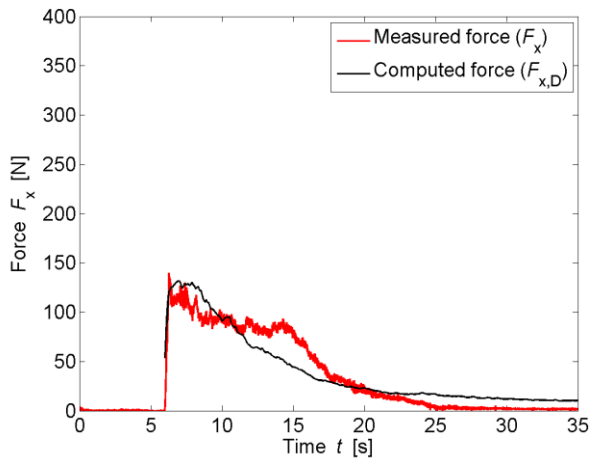
IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.561	139.787	[N]
F_y	-23.391	25.994	[N]
F_z	-237.856	1.577	[N]
M_x	-4.079	4.786	[Nm]
M_y	-1.064	28.396	[Nm]
M_z	-1.337	1.594	[Nm]

Predicted Force	$F_{x,D,max}$	131.666	[N]
Initial time	t_0	5.967	[s]
Time to peak	τ_{max}	0.328	[s]
Total impulse	I_{tot}	1120.097	[Ns]
Peak Impulse	I_{peak}	20.006	[Ns]
Relative impulse	I^*	0.018	[-]
Wave height at $F_{x,max}$	h_M	0.845	[-]
Resistance coefficient	C_R	1.108	[-]

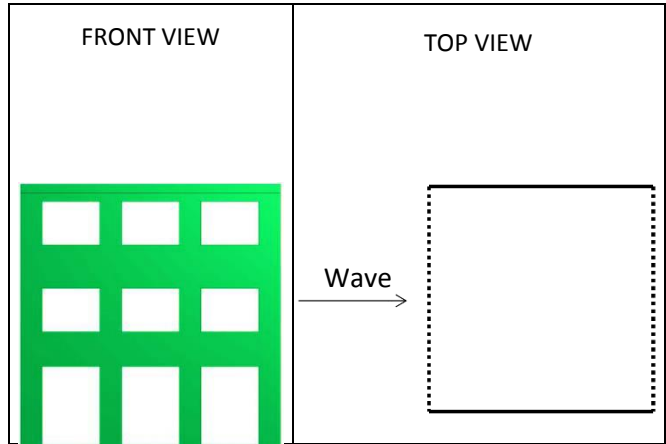


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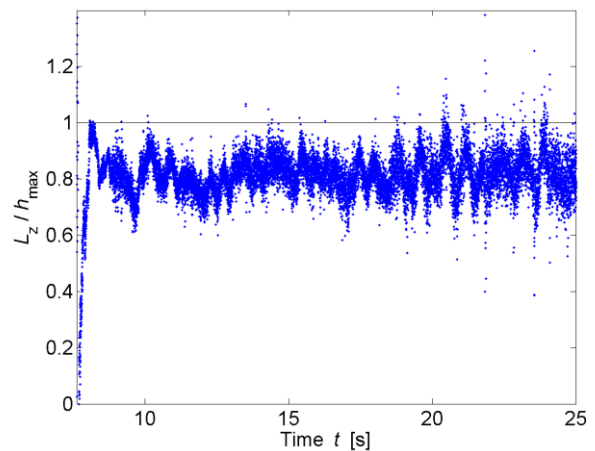
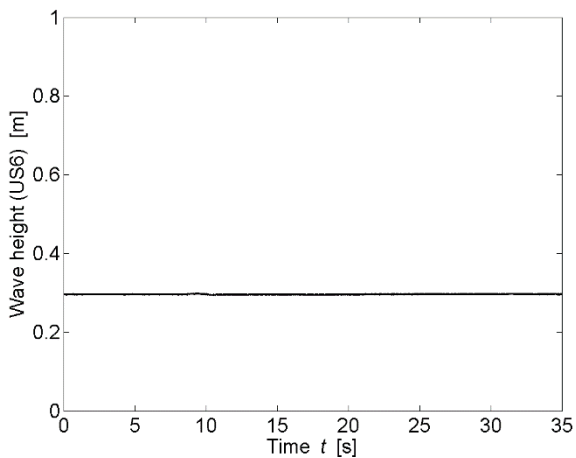
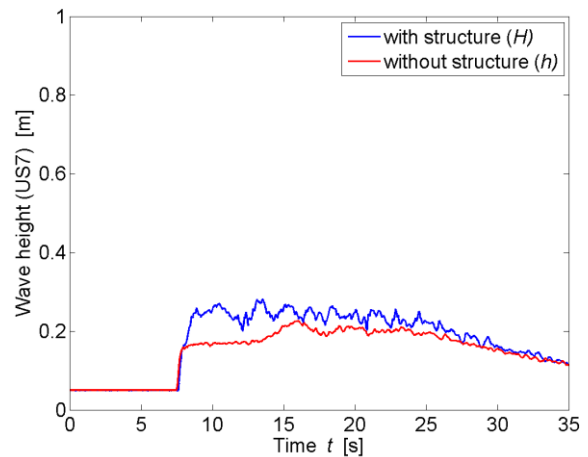
TEST PARAMETERS

Name	B42.24_F_WW5_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	51.42	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.928	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.281	[m]

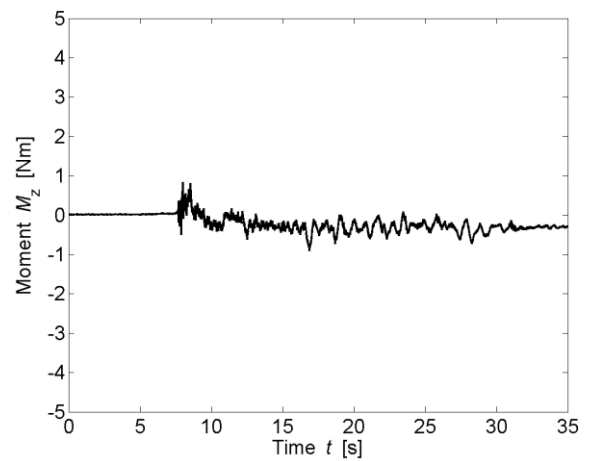
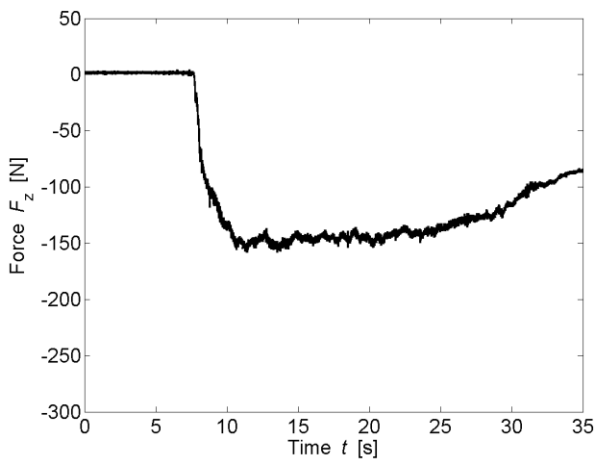
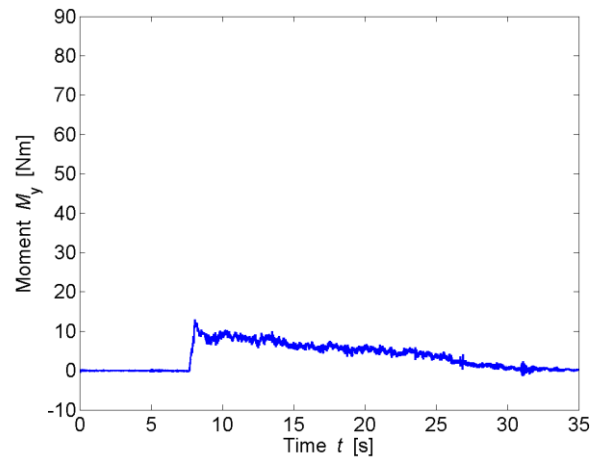
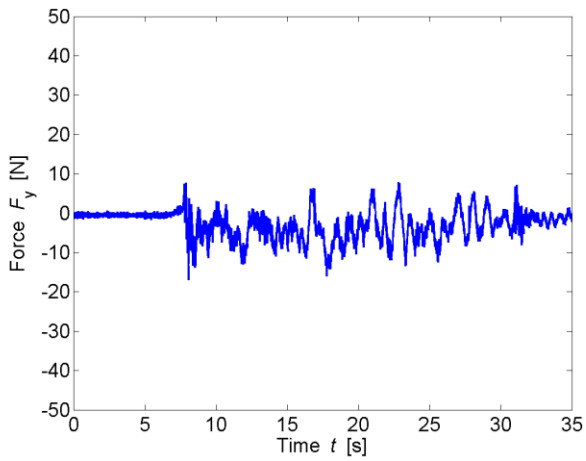
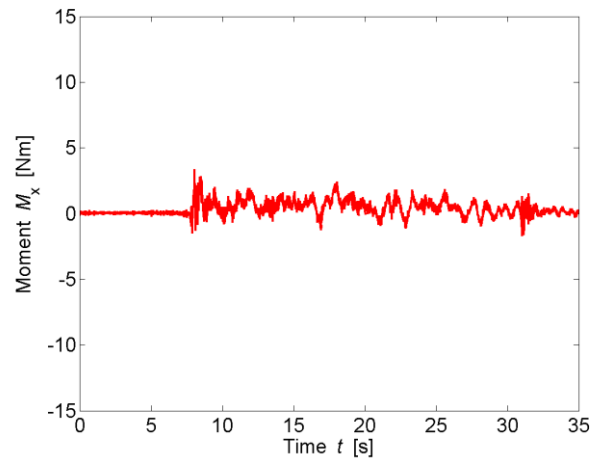
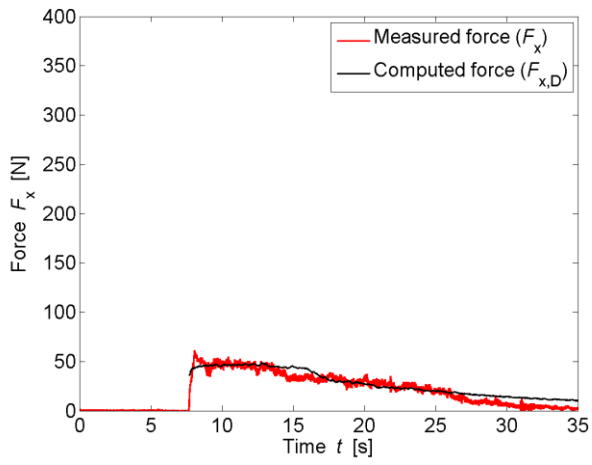


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.182	61.400	[N]
F_y	-17.028	7.860	[N]
F_z	-158.107	1.858	[N]
M_x	-1.712	3.364	[Nm]
M_y	-1.384	12.933	[Nm]
M_z	-0.900	0.841	[Nm]
Predicted Force	$F_{x,D,max}$	48.460	[N]
Initial time	t_0	7.659	[s]
Time to peak	τ_{max}	0.432	[s]
Total impulse	I_{tot}	649.544	[Ns]
Peak Impulse	I_{peak}	14.039	[Ns]
Relative impulse	I^*	0.021	[-]
Wave height at $F_{x,max}$	h_M	0.691	[-]
Resistance coefficient	C_R	1.103	[-]



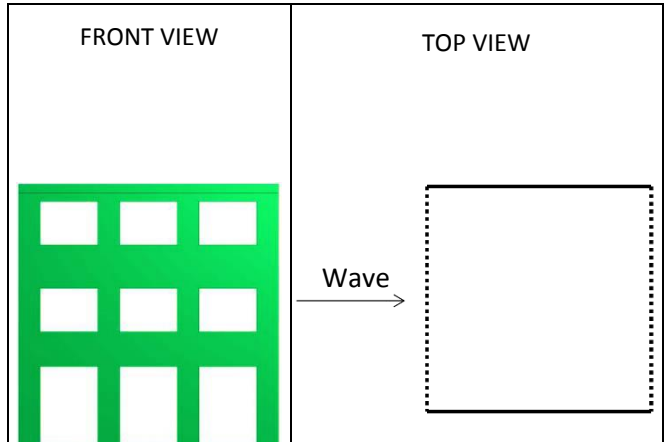
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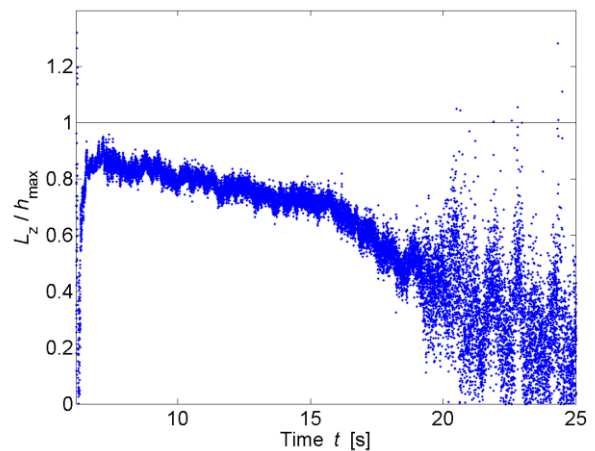
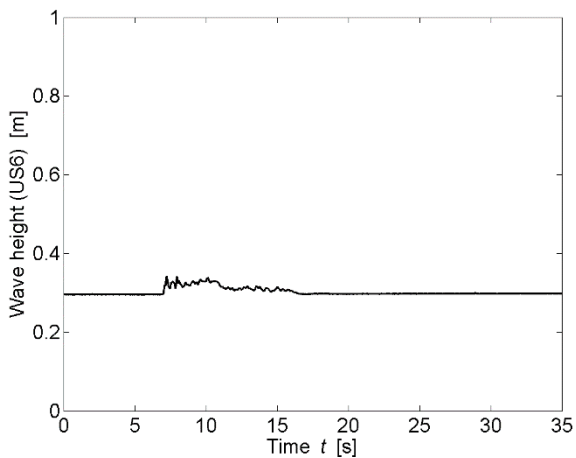
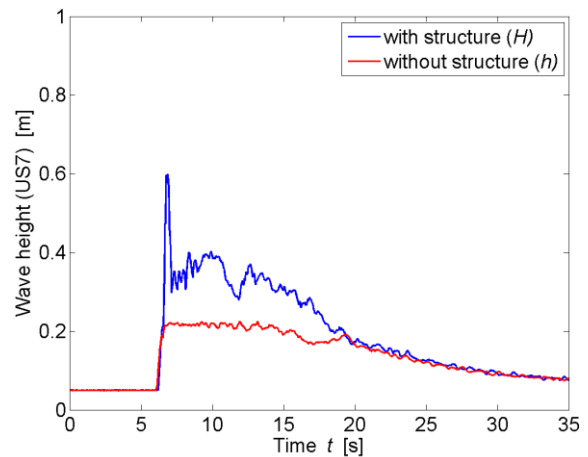
TEST PARAMETERS

Name	B42.24_F_WW5_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	41.95	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.434	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.506	[m]

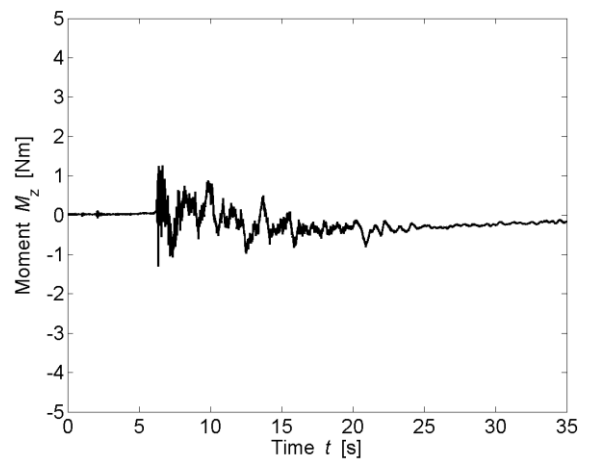
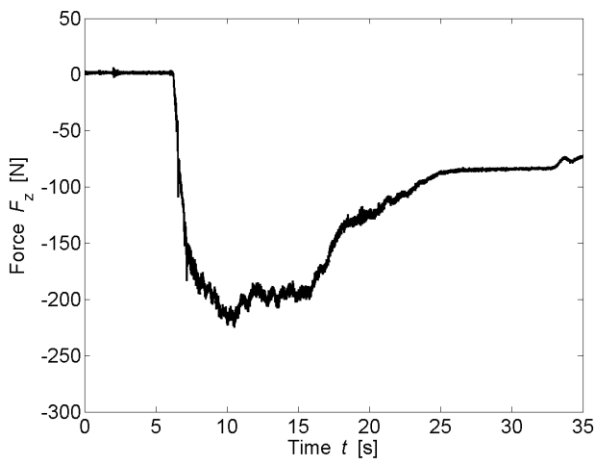
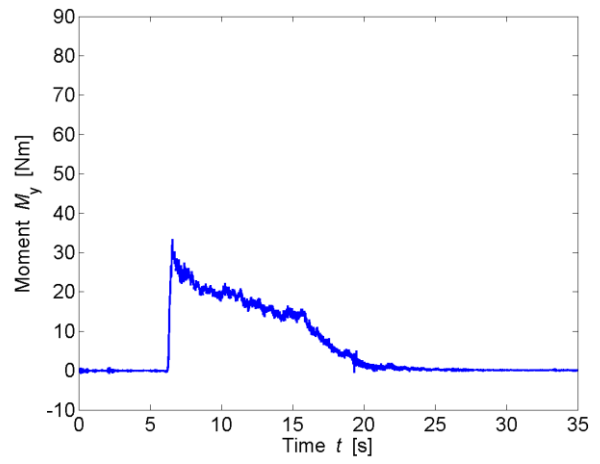
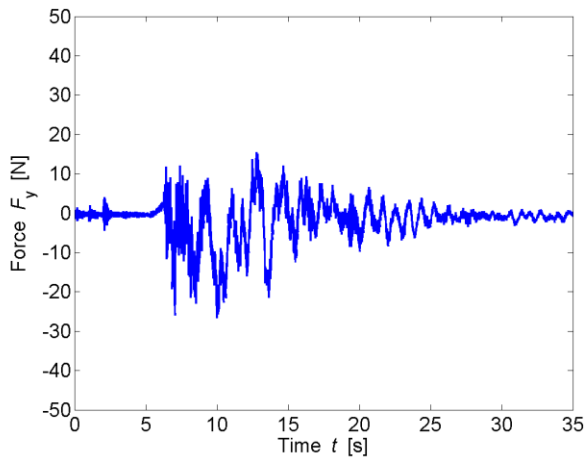
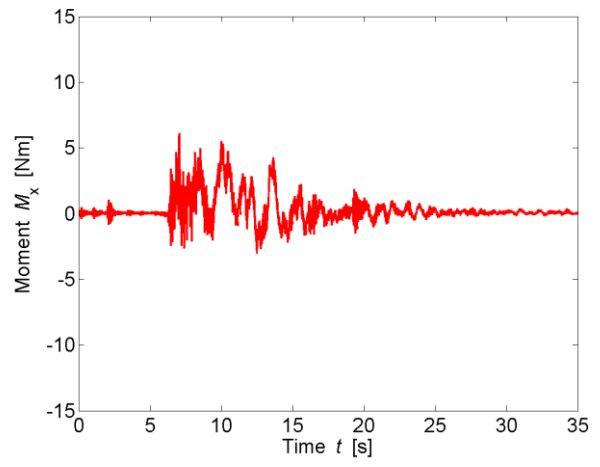
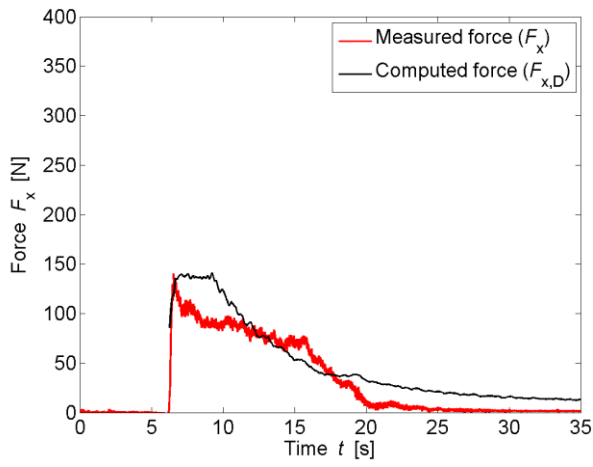


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.827	140.150	[N]
F_y	-26.622	15.495	[N]
F_z	-225.017	1.296	[N]
M_x	-3.026	6.110	[Nm]
M_y	-1.363	33.406	[Nm]
M_z	-1.295	1.255	[Nm]
Predicted Force	$F_{x,D,max}$	140.963	[N]
Initial time	t_0	6.238	[s]
Time to peak	τ_{max}	0.312	[s]
Total impulse	I_{tot}	1021.975	[Ns]
Peak Impulse	I_{peak}	23.948	[Ns]
Relative impulse	I^*	0.024	[-]
Wave height at $F_{x,max}$	h_M	0.818	[-]
Resistance coefficient	C_R	1.231	[-]



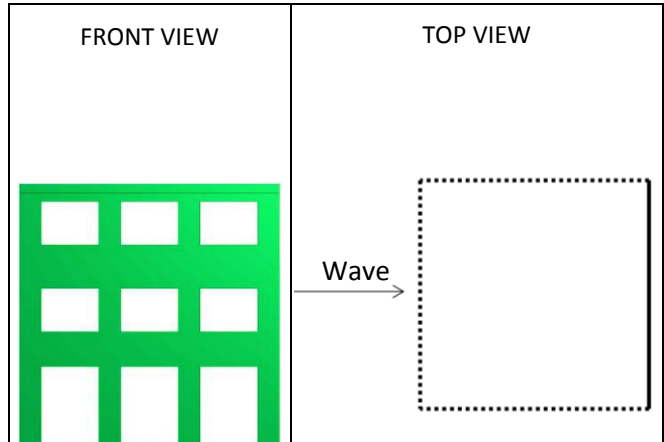
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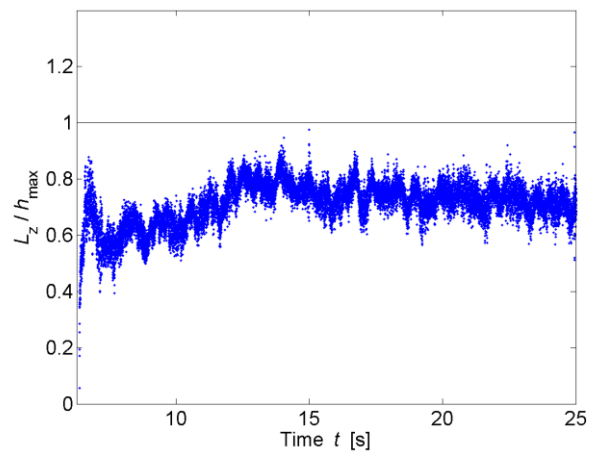
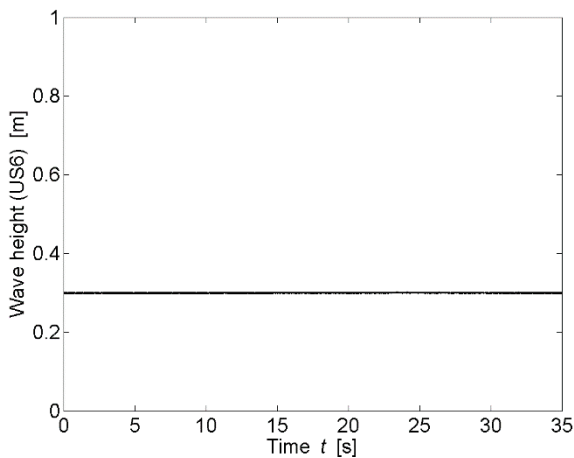
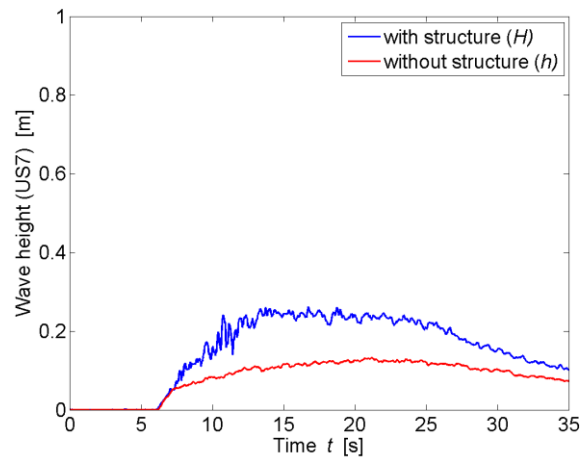
TEST PARAMETERS

Name	B42.24_B_WD1_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	46.41	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.366	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.262	[m]

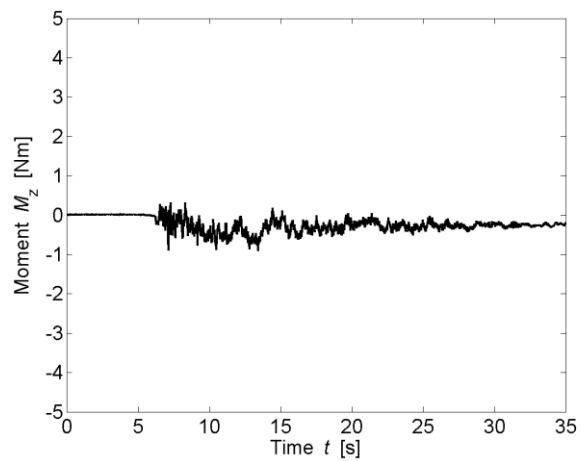
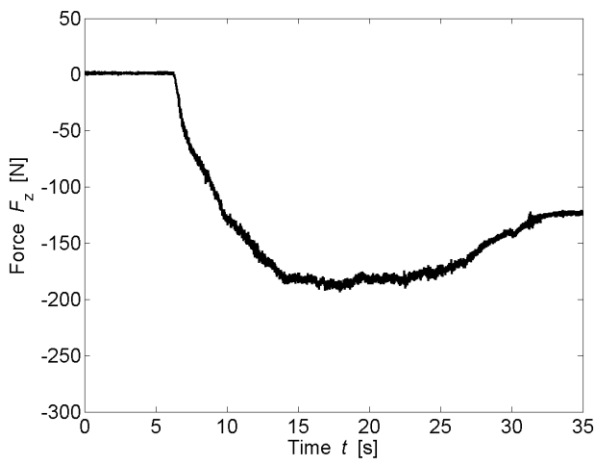
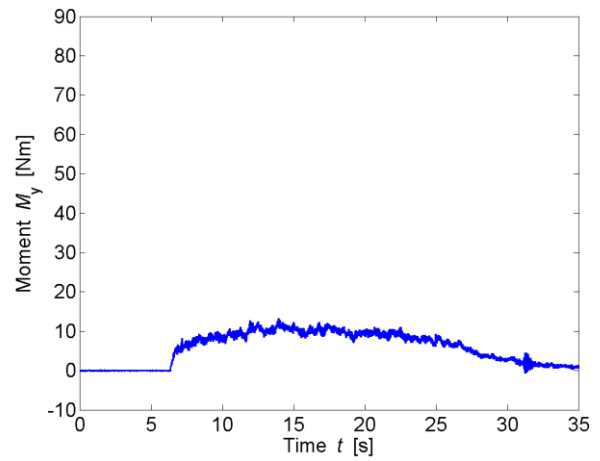
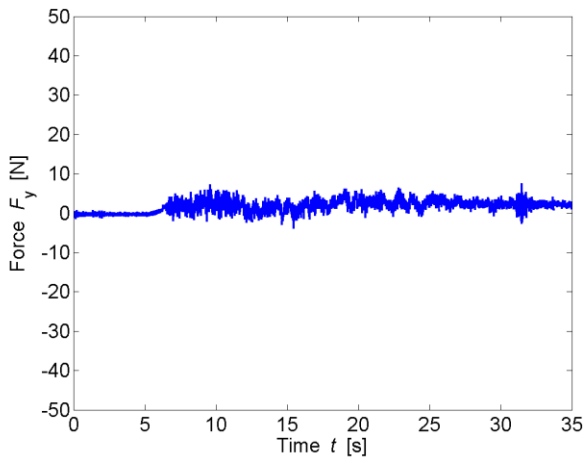
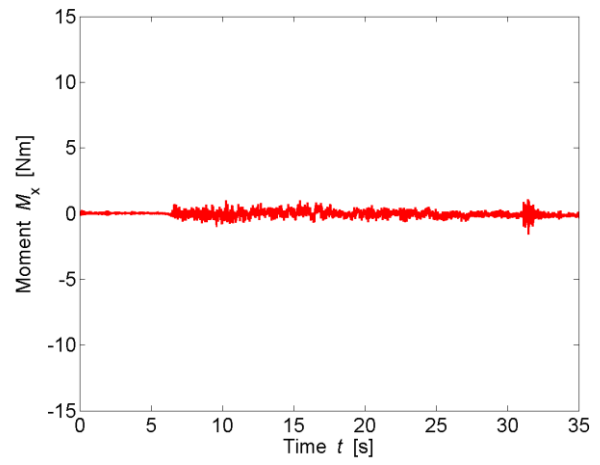
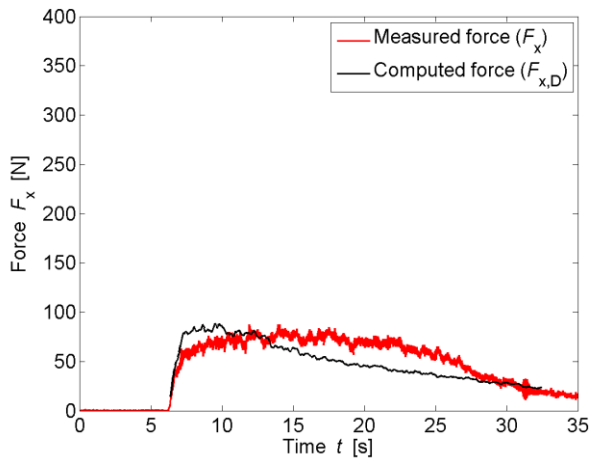


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.673	87.456	[N]
F_y	-4.107	7.590	[N]
F_z	-193.249	0.000	[N]
M_x	-1.577	1.162	[Nm]
M_y	-1.339	13.182	[Nm]
M_z	-0.910	0.327	[Nm]
Predicted Force	$F_{x,D,max}$	88.318	[N]
Initial time	t_0	6.320	[s]
Time to peak	τ_{max}	7.619	[s]
Total impulse	I_{tot}	1347.789	[Ns]
Peak Impulse	I_{peak}	494.590	[Ns]
Relative impulse	I^*	0.355	[-]
Wave height at $F_{x,max}$	h_M	0.782	[-]
Resistance coefficient	C_R	2.509	[-]



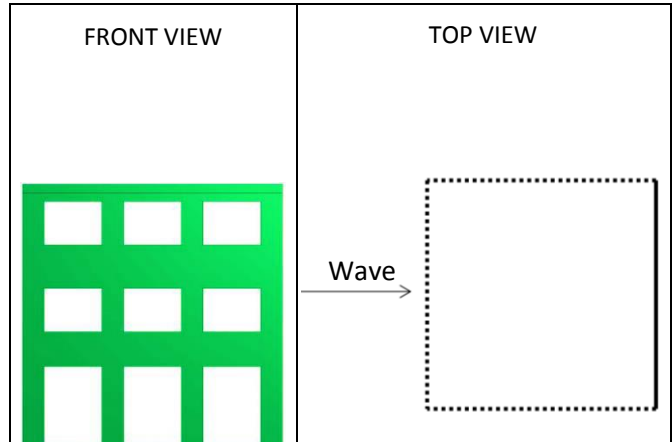
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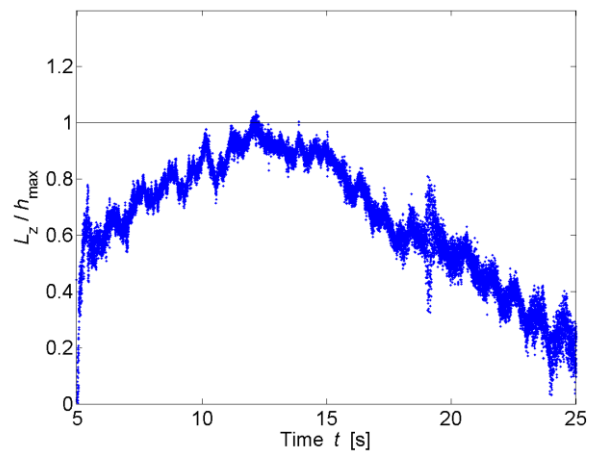
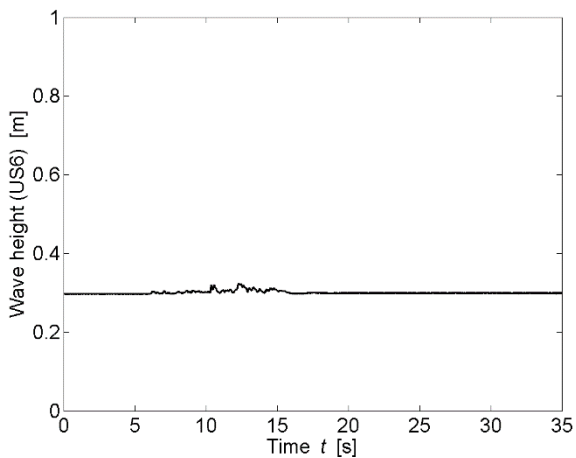
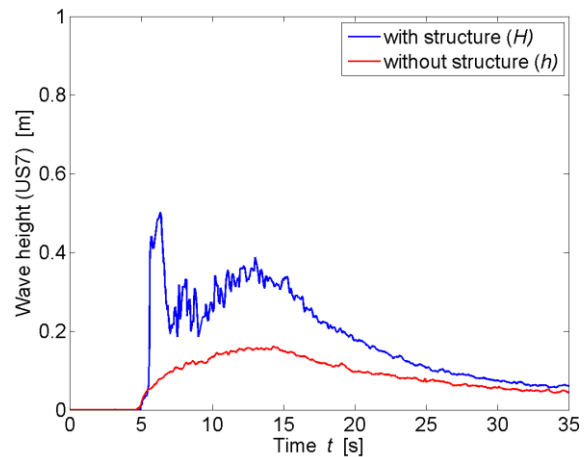
TEST PARAMETERS

Name	B42.24_B_WD2_2		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	49.71	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.073	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.502	[m]

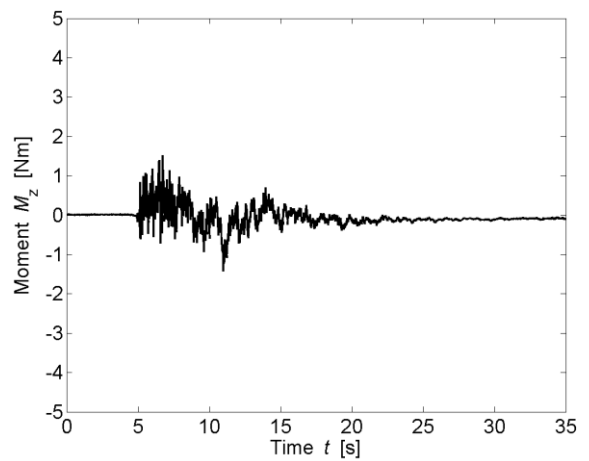
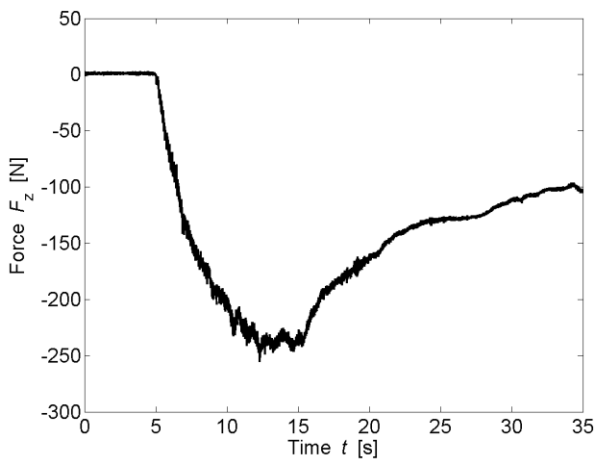
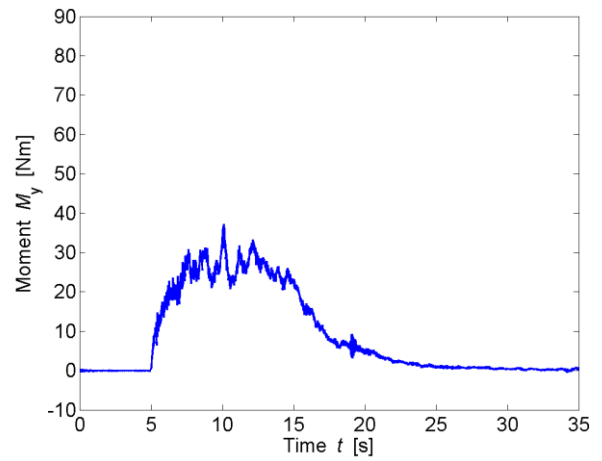
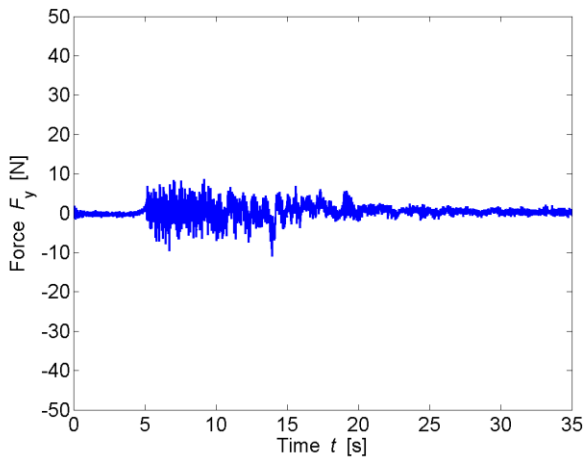
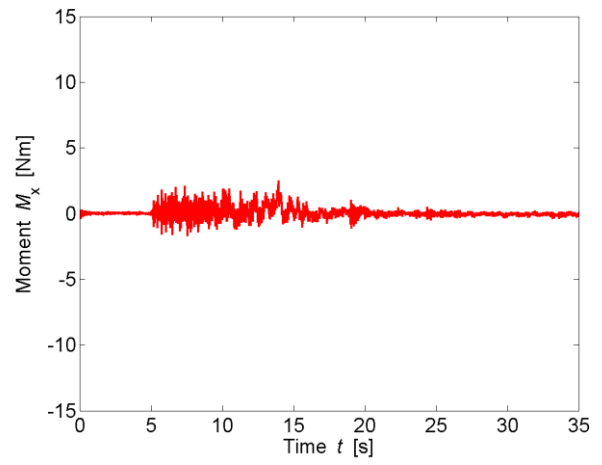
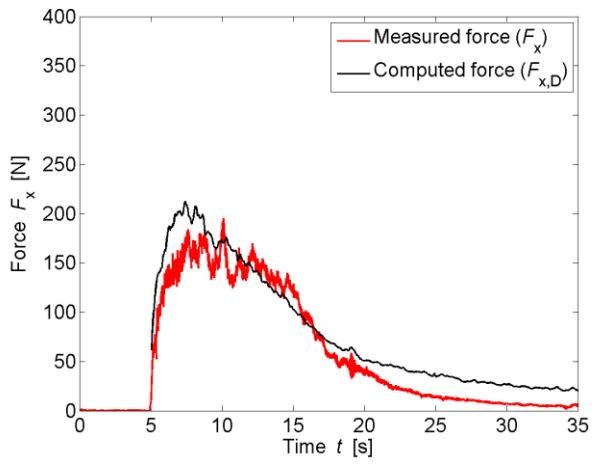


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-7.311	195.578	[N]
F_y	-10.984	8.618	[N]
F_z	-255.380	0.265	[N]
M_x	-1.712	2.501	[Nm]
M_y	-1.726	37.242	[Nm]
M_z	-1.430	1.524	[Nm]
Predicted Force	$F_{x,D,max}$	212.377	[N]
Initial time	t_0	5.007	[s]
Time to peak	τ_{max}	5.115	[s]
Total impulse	I_{tot}	1924.042	[Ns]
Peak Impulse	I_{peak}	724.328	[Ns]
Relative impulse	I^*	0.400	[-]
Wave height at $F_{x,max}$	h_M	0.837	[-]
Resistance coefficient	C_R	2.182	[-]



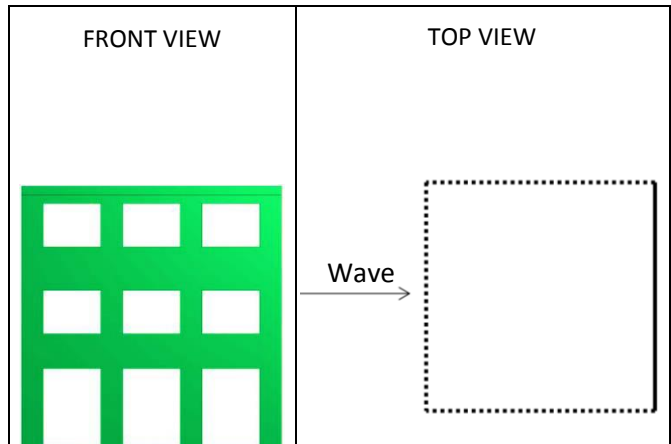
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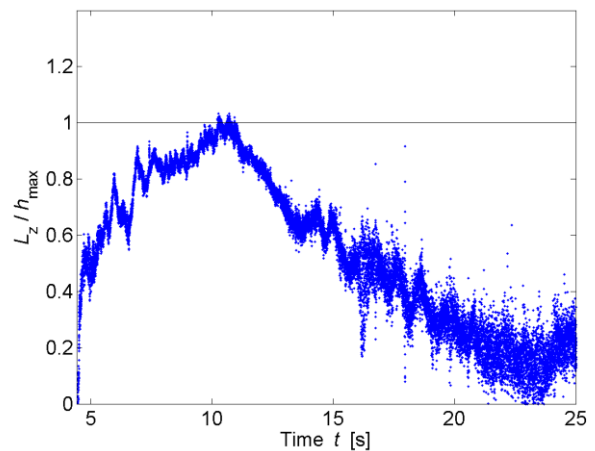
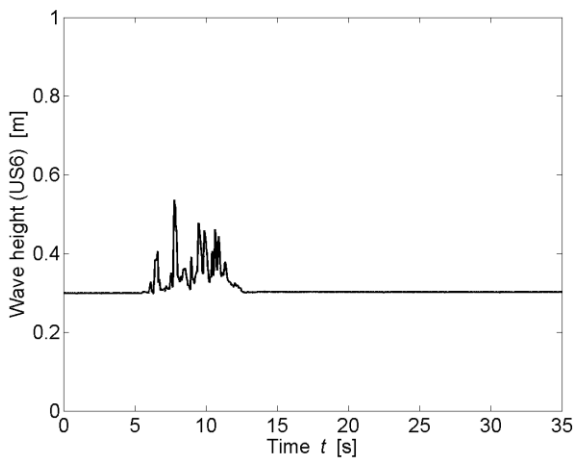
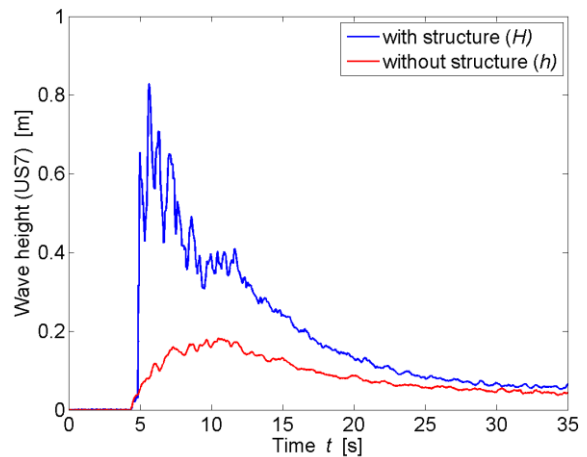
TEST PARAMETERS

Name	B42.24_B_WD3_2		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	51.65	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.546	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.828	[m]

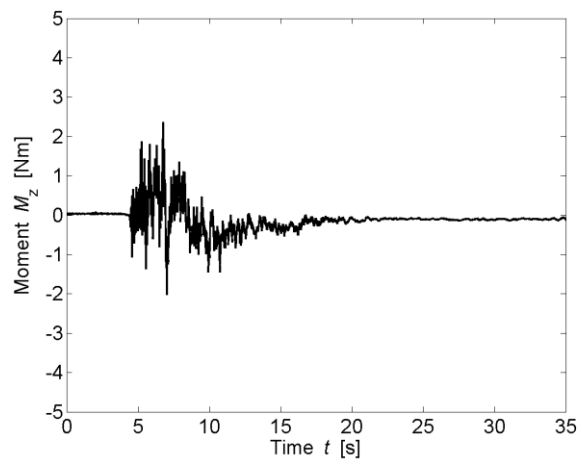
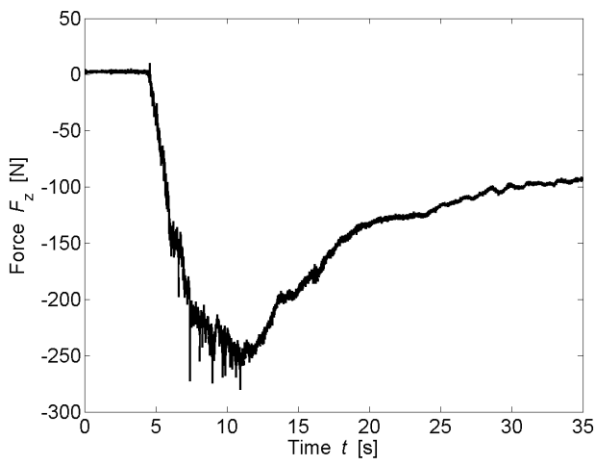
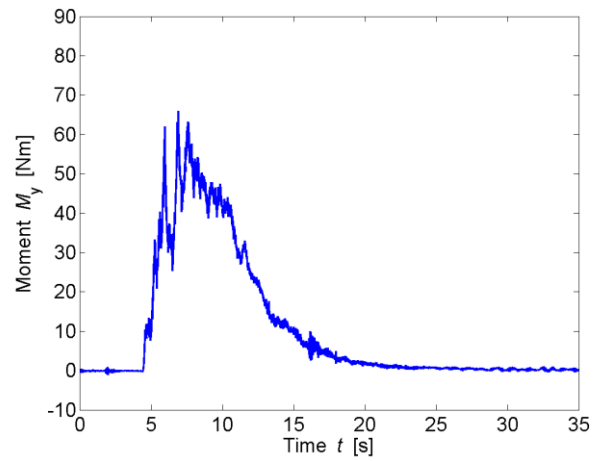
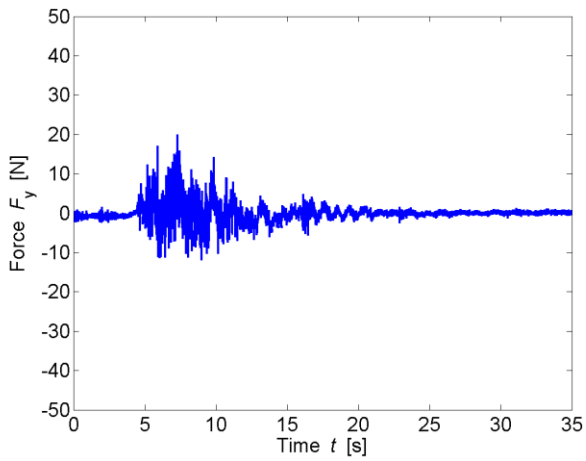
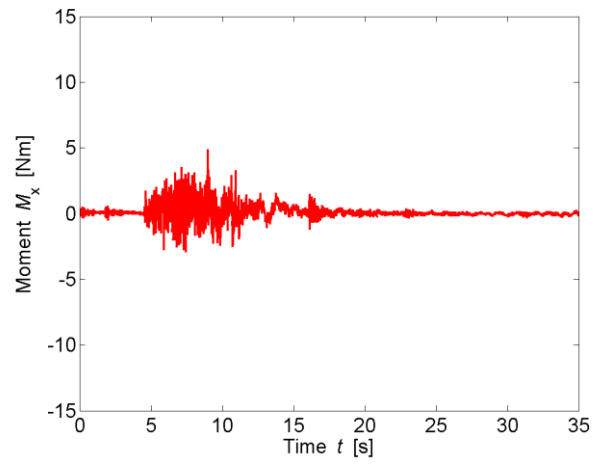
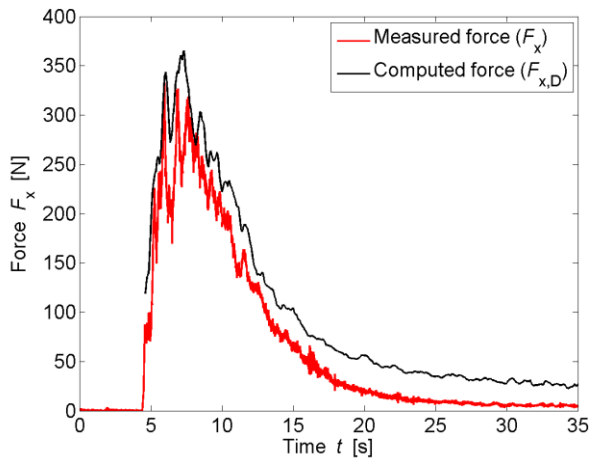


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.299	332.705	[N]
F_y	-11.983	19.929	[N]
F_z	-280.229	10.277	[N]
M_x	-2.904	4.872	[Nm]
M_y	-1.051	66.017	[Nm]
M_z	-2.026	2.359	[Nm]
Predicted Force	$F_{x,D,max}$	365.348	[N]
Initial time	t_0	4.463	[s]
Time to peak	τ_{max}	1.509	[s]
Total impulse	I_{tot}	2137.471	[Ns]
Peak Impulse	I_{peak}	232.166	[Ns]
Relative impulse	I^*	0.116	[-]
Wave height at $F_{x,max}$	h_M	0.635	[-]
Resistance coefficient	C_R	1.807	[-]

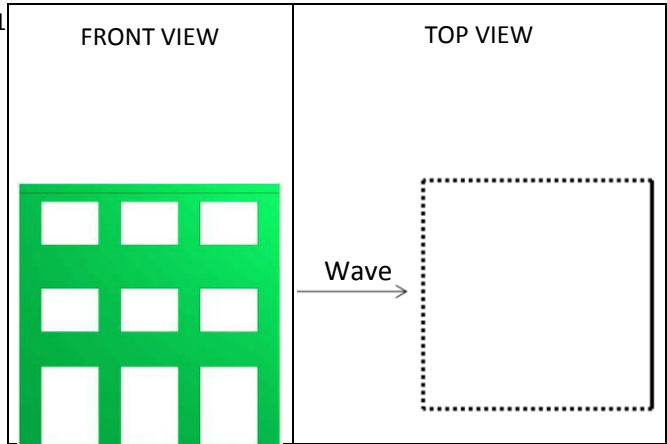


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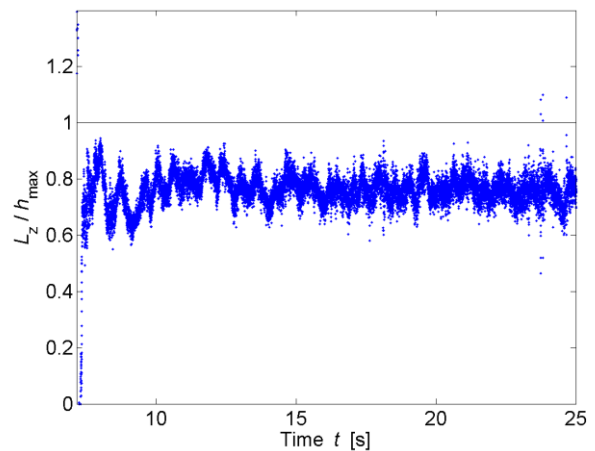
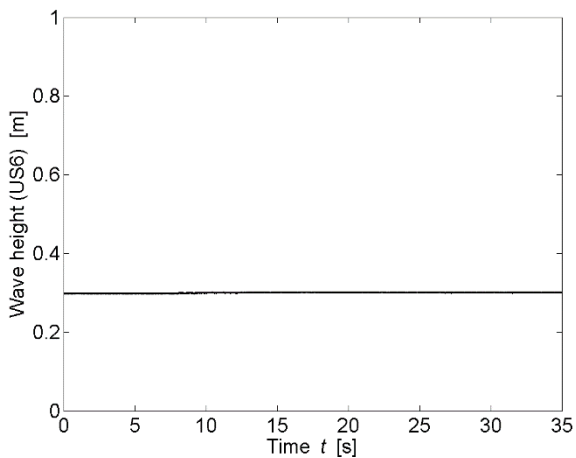
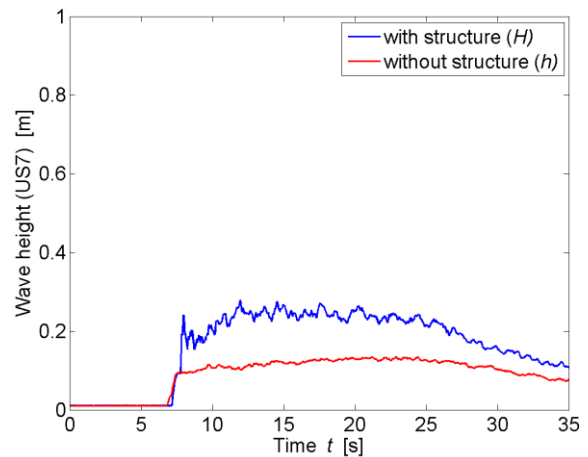
TEST PARAMETERS

Name	B42.24_B_WW1_1P_1		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	46.64	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.131	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.373	[m]

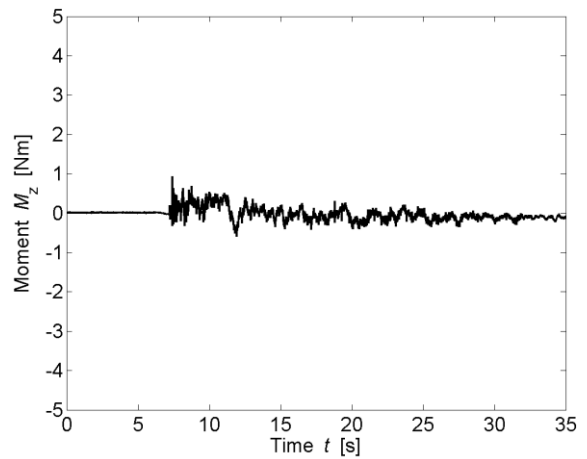
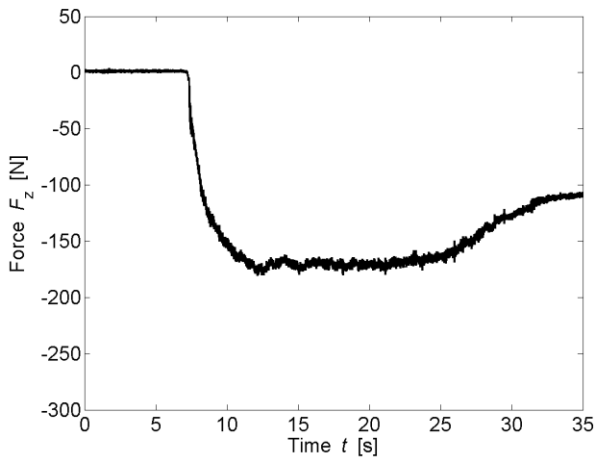
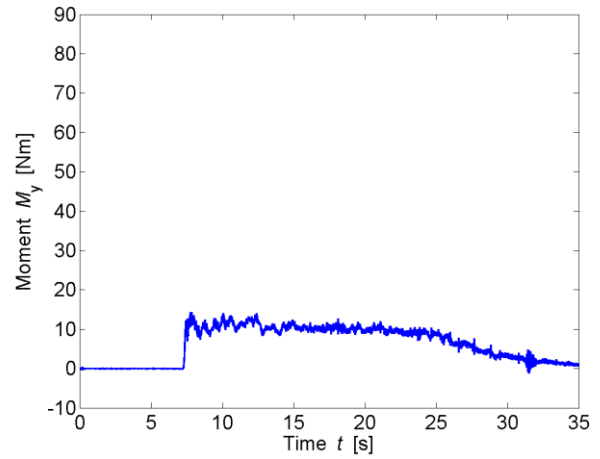
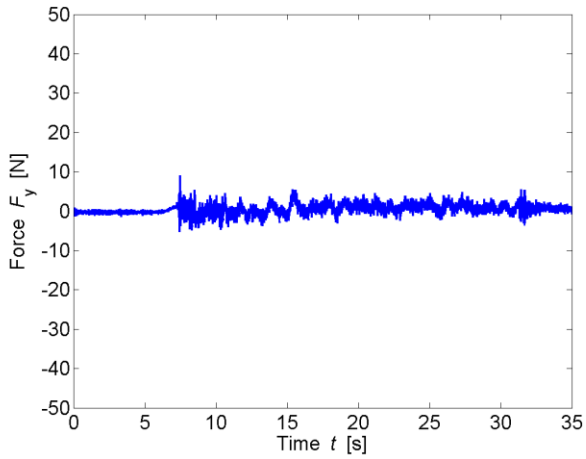
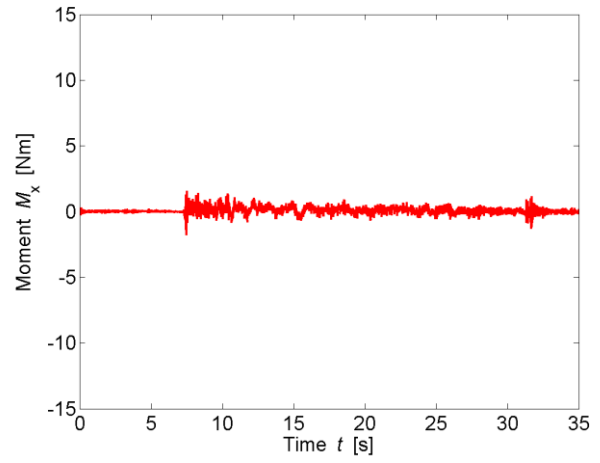
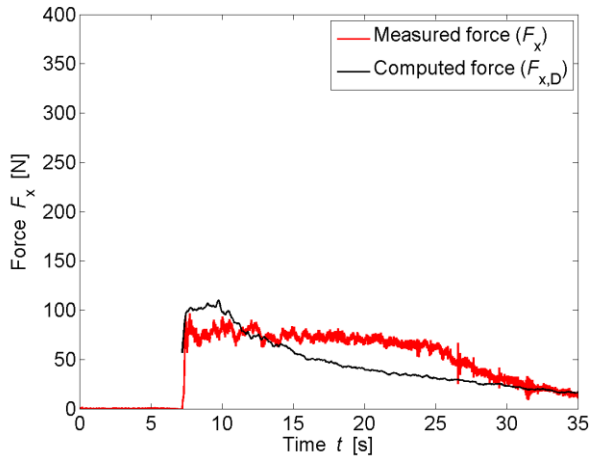


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.706	96.602	[N]
F_y	-5.282	9.034	[N]
F_z	-180.410	1.483	[N]
M_x	-1.783	1.558	[Nm]
M_y	-1.227	14.351	[Nm]
M_z	-0.596	0.937	[Nm]
Predicted Force	$F_{x,D,max}$	109.967	[N]
Initial time	t_0	7.196	[s]
Time to peak	τ_{max}	0.531	[s]
Total impulse	I_{tot}	1402.915	[Ns]
Peak Impulse	I_{peak}	28.368	[Ns]
Relative impulse	I^*	0.020	[-]
Wave height at $F_{x,max}$	h_M	0.706	[-]
Resistance coefficient	C_R	1.685	[-]

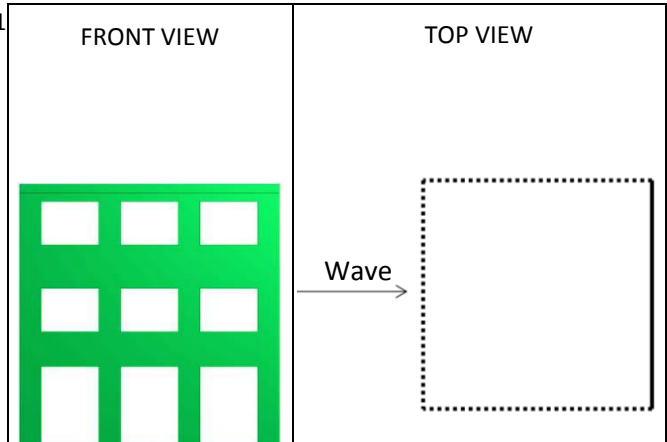


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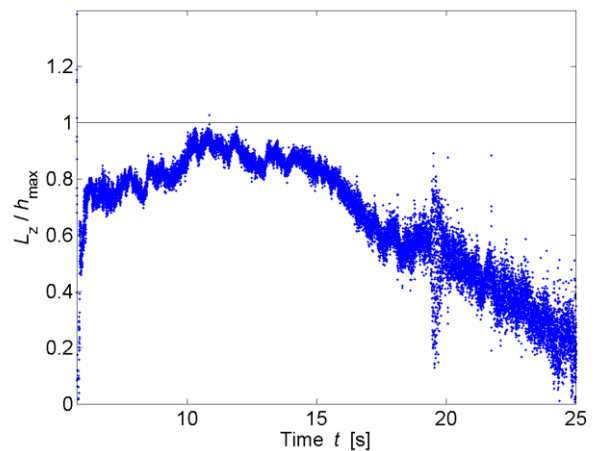
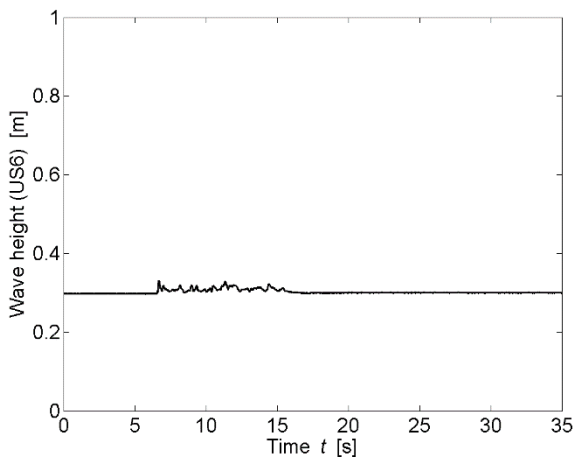
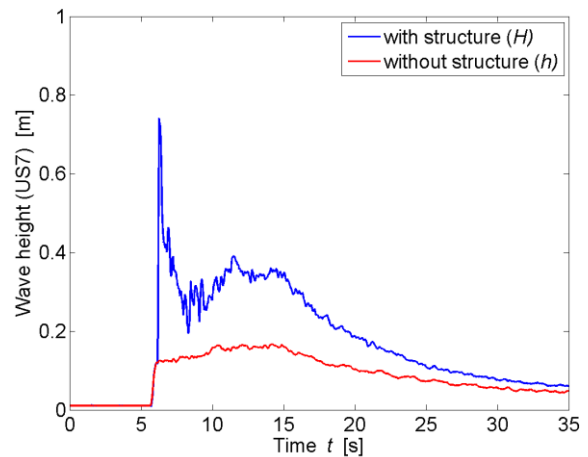
TEST PARAMETERS

Name	B42.24_B_WW1_2P_1		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	50.40	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.733	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.740	[m]

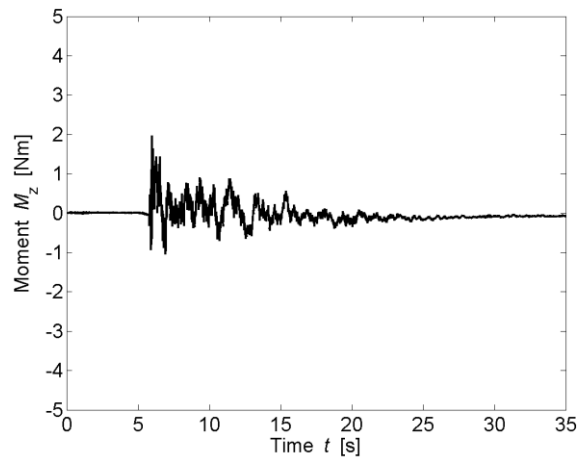
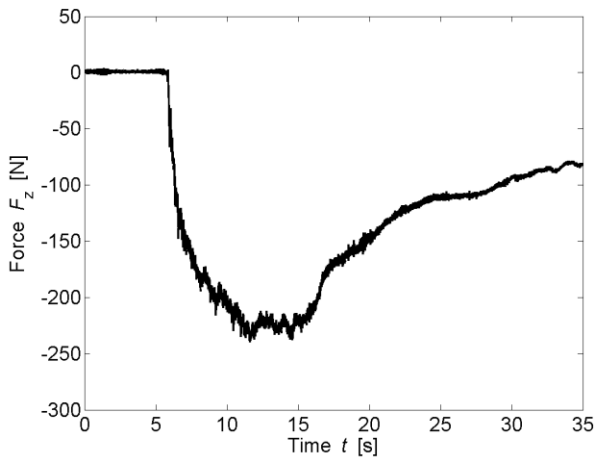
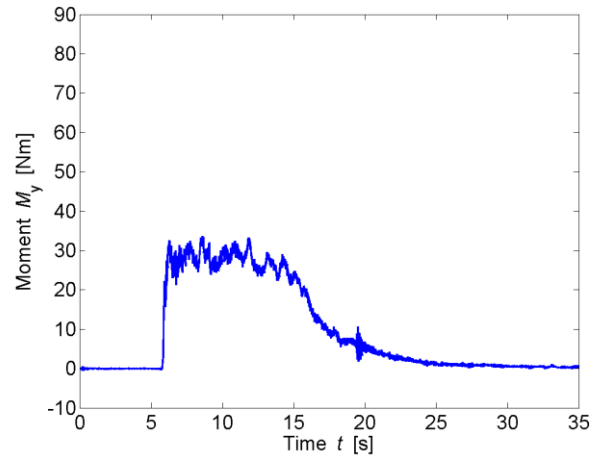
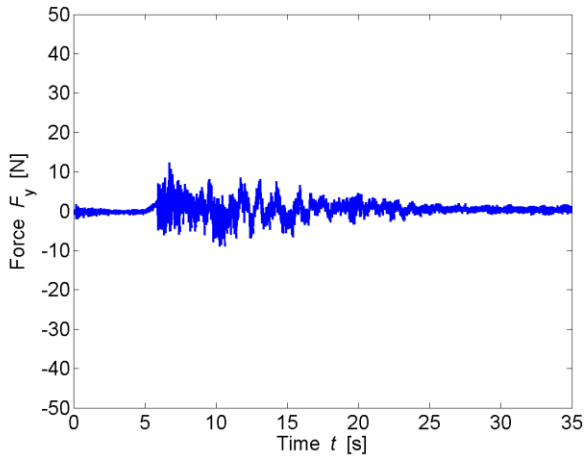
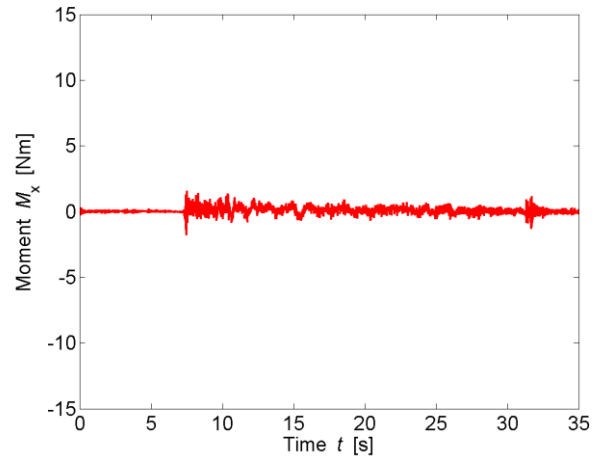
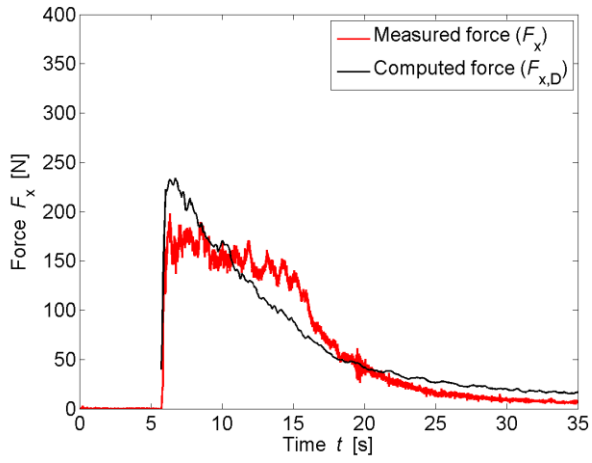


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.593	197.925	[N]
F_y	-8.953	12.338	[N]
F_z	-239.824	2.608	[N]
M_x	-2.163	2.527	[Nm]
M_y	-1.698	33.689	[Nm]
M_z	-1.045	1.963	[Nm]
Predicted Force	$F_{x,D,max}$	233.827	[N]
Initial time	t_0	5.785	[s]
Time to peak	τ_{max}	0.550	[s]
Total impulse	I_{tot}	1983.173	[Ns]
Peak Impulse	I_{peak}	71.107	[Ns]
Relative impulse	I^*	0.038	[-]
Wave height at $F_{x,max}$	h_M	0.747	[-]
Resistance coefficient	C_R	1.616	[-]

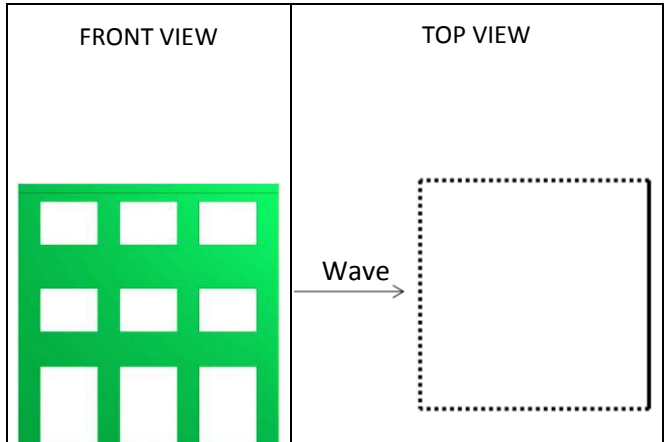


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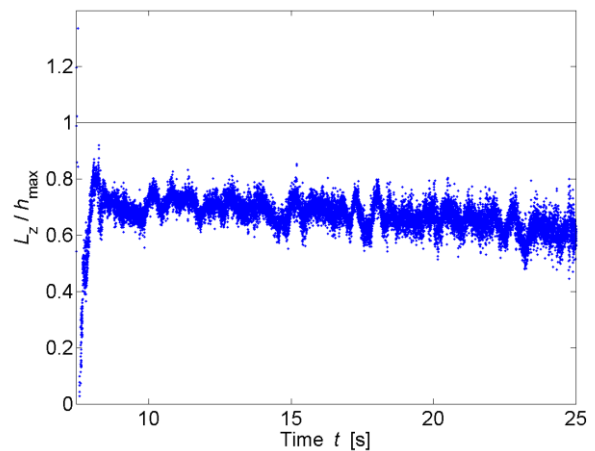
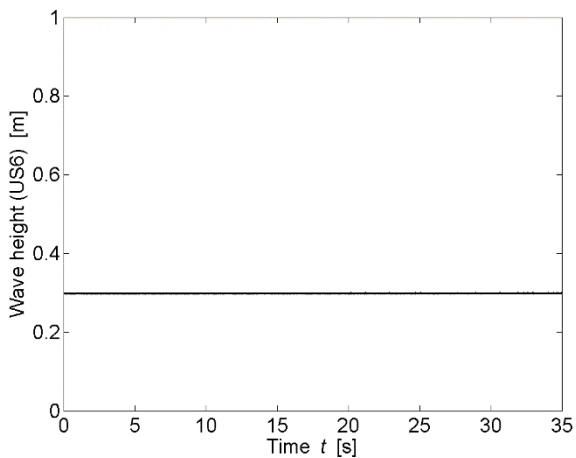
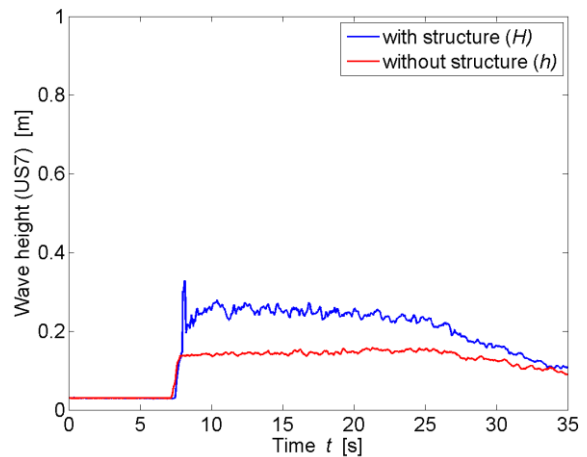
TEST PARAMETERS

Name	B42.24_B_WW3_1P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	49.37	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.971	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.329	[m]

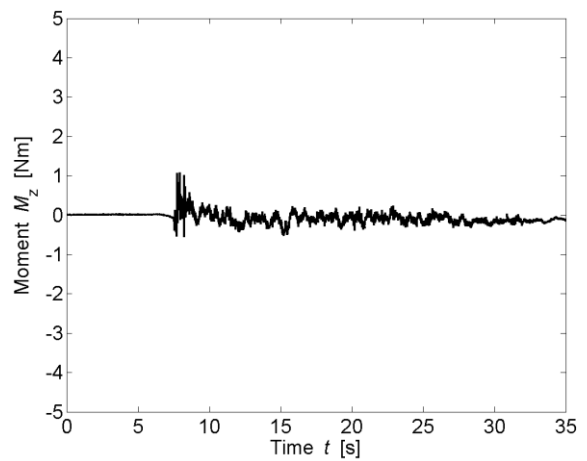
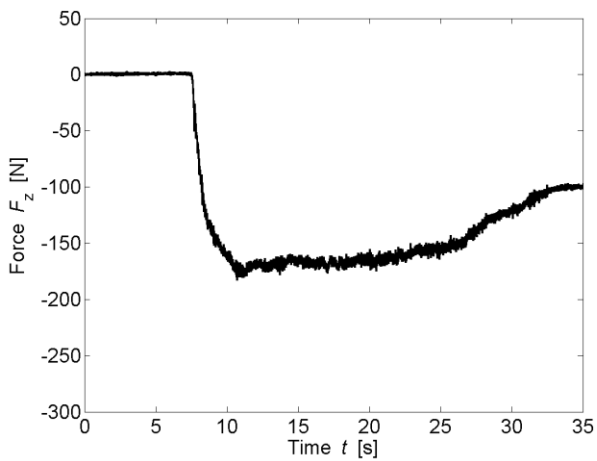
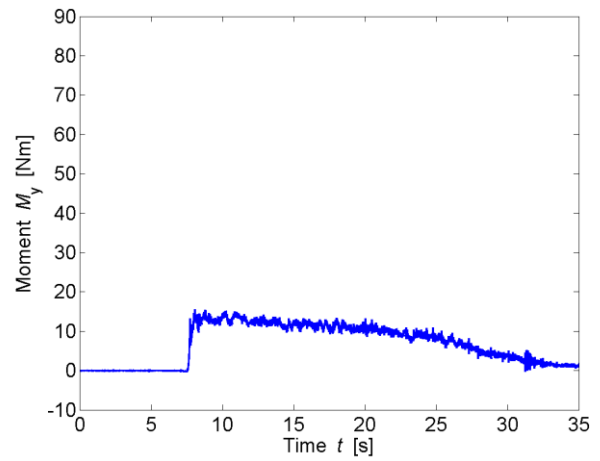
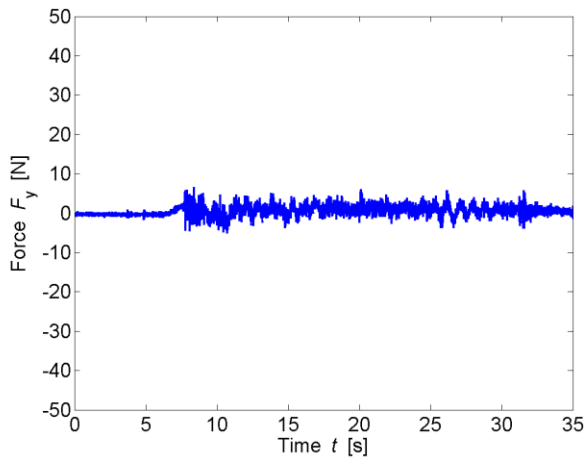
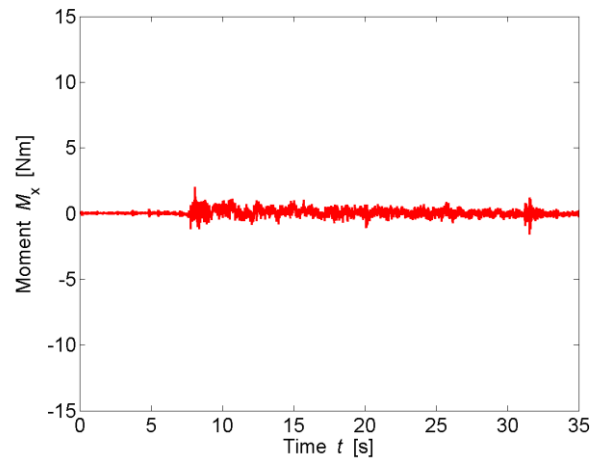
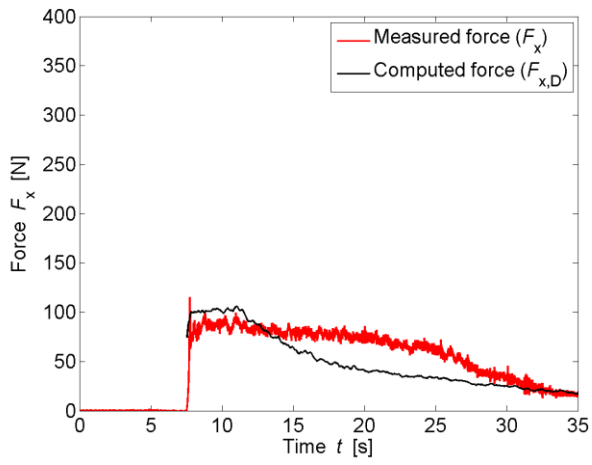


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.625	115.279	[N]
F_y	-5.159	6.661	[N]
F_z	-183.128	1.858	[N]
M_x	-1.567	2.037	[Nm]
M_y	-0.627	15.521	[Nm]
M_z	-0.557	1.080	[Nm]
Predicted Force	$F_{x,D,max}$	105.981	[N]
Initial time	t_0	7.516	[s]
Time to peak	τ_{max}	0.233	[s]
Total impulse	I_{tot}	1488.834	[Ns]
Peak Impulse	I_{peak}	6.498	[Ns]
Relative impulse	I^*	0.004	[-]
Wave height at $F_{x,max}$	h_M	0.810	[-]
Resistance coefficient	C_R	1.445	[-]



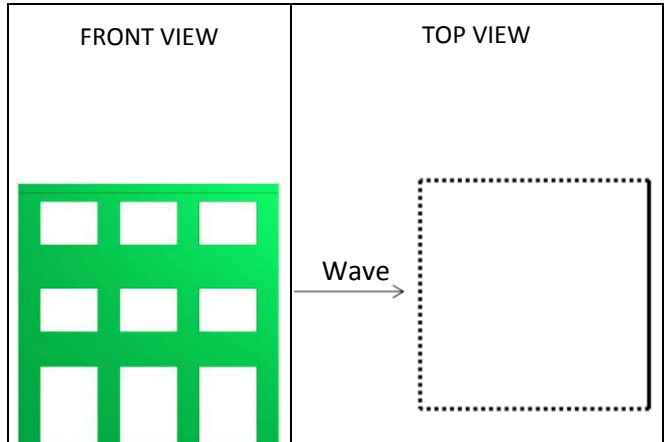
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TEST PARAMETERS

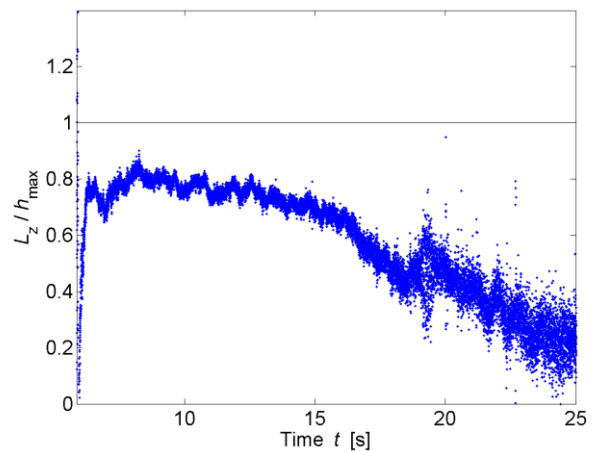
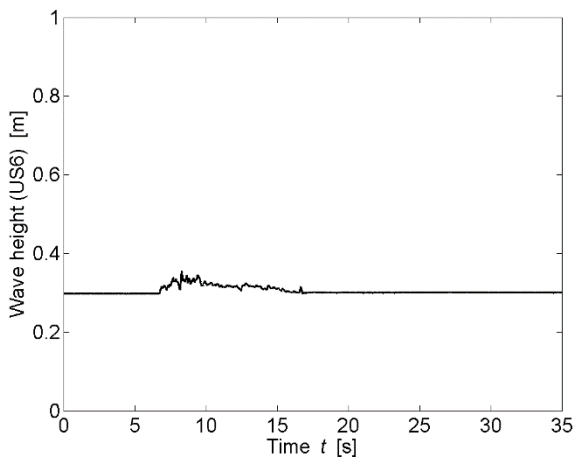
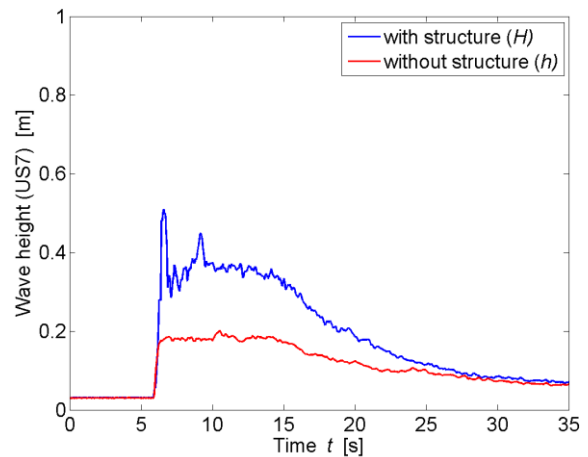
Name	B42.24_B_WW3_2P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	47.37	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.485	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.511	[m]



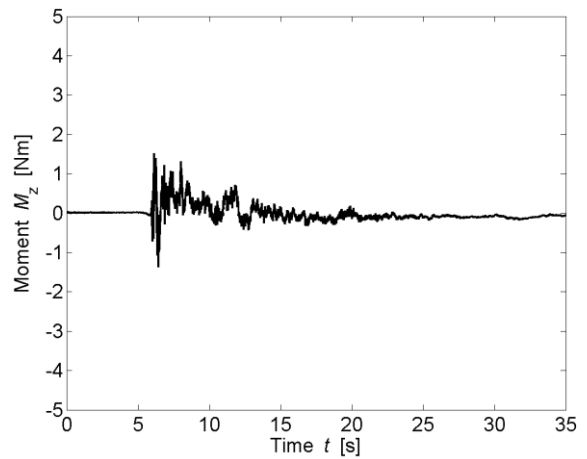
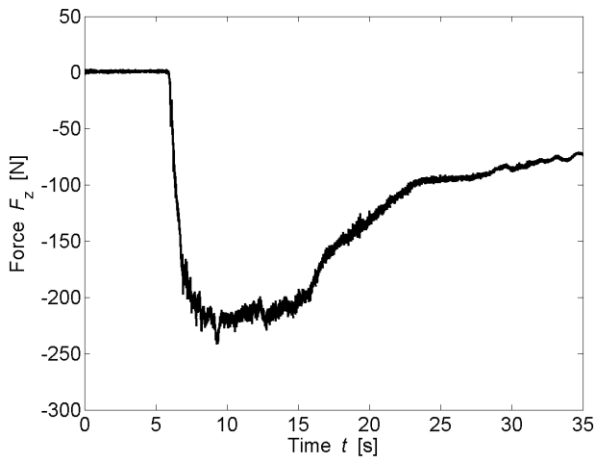
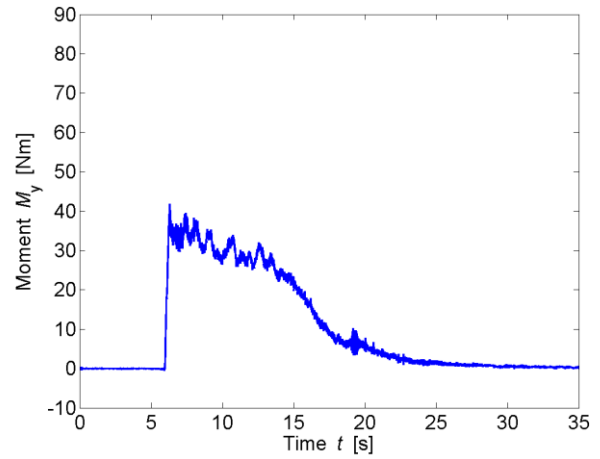
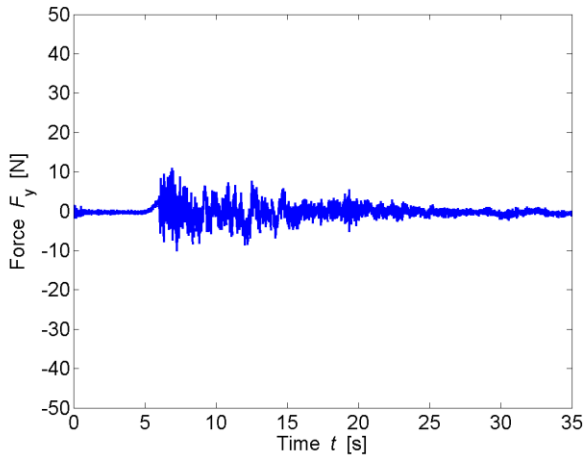
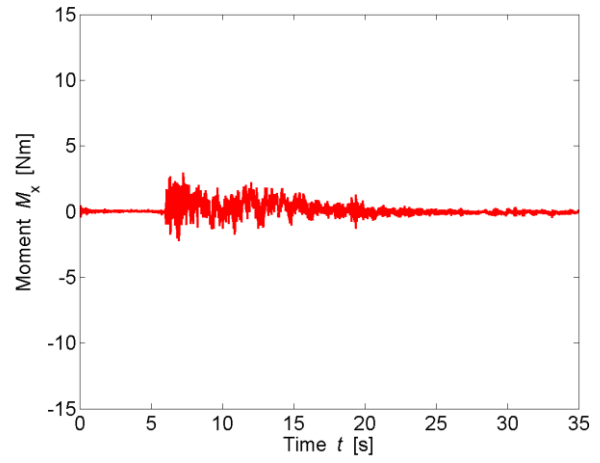
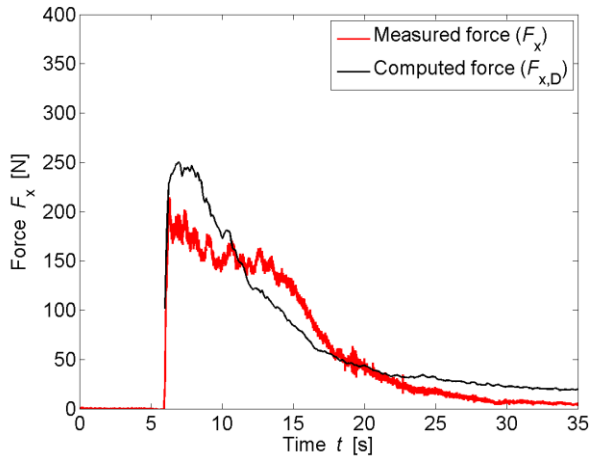
IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.230	214.256	[N]
F_y	-10.176	10.943	[N]
F_z	-241.510	0.734	[N]
M_x	-2.221	2.975	[Nm]
M_y	-1.279	41.839	[Nm]
M_z	-1.363	1.520	[Nm]

Predicted Force	$F_{x,D,max}$	250.164	[N]
Initial time	t_0	5.919	[s]
Time to peak	τ_{max}	0.389	[s]
Total impulse	I_{tot}	1945.067	[Ns]
Peak Impulse	I_{peak}	42.992	[Ns]
Relative impulse	I^*	0.023	[-]
Wave height at $F_{x,max}$	h_M	0.844	[-]
Resistance coefficient	C_R	1.784	[-]



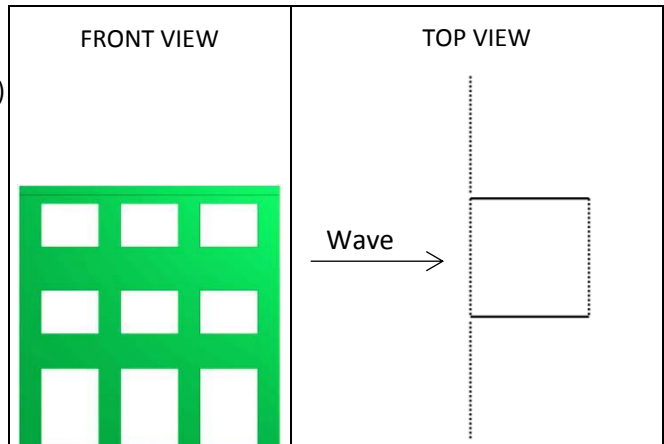
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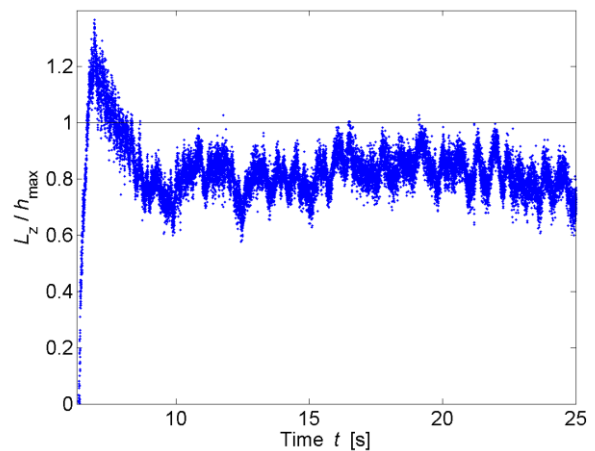
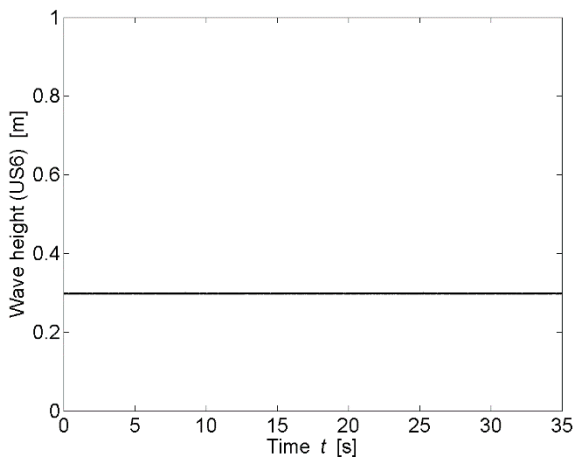
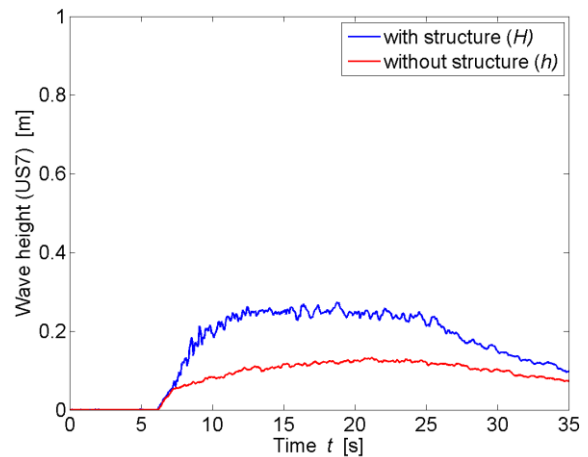
TEST PARAMETERS

Name	B42.24_S_WD1_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	46.41	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.371	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.274	[m]

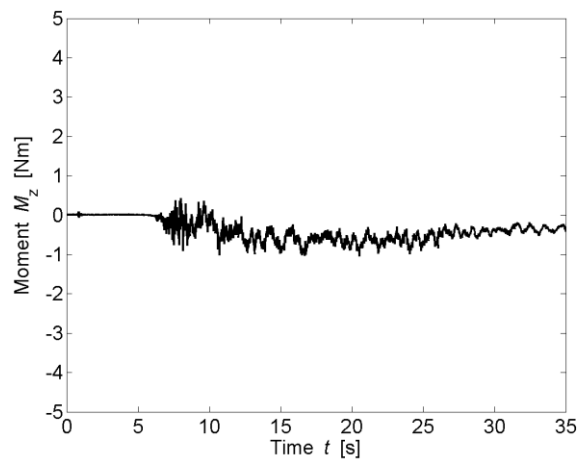
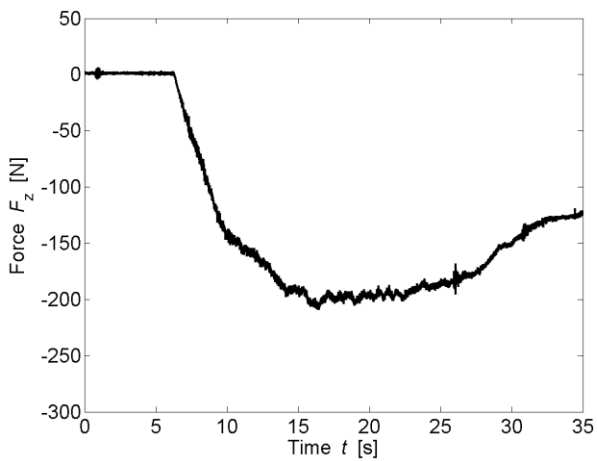
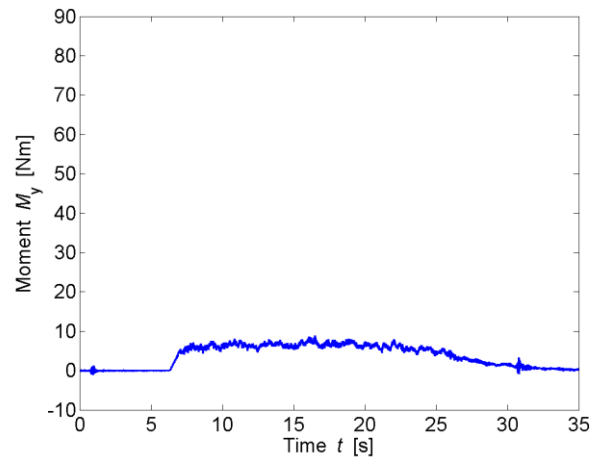
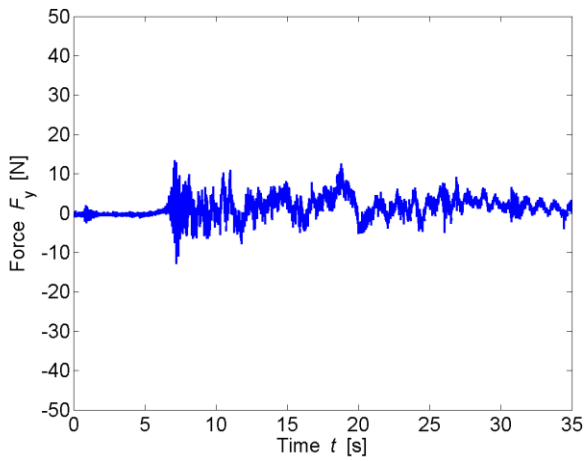
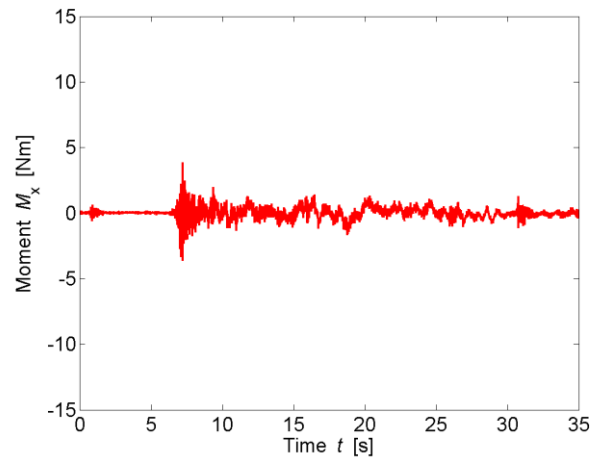
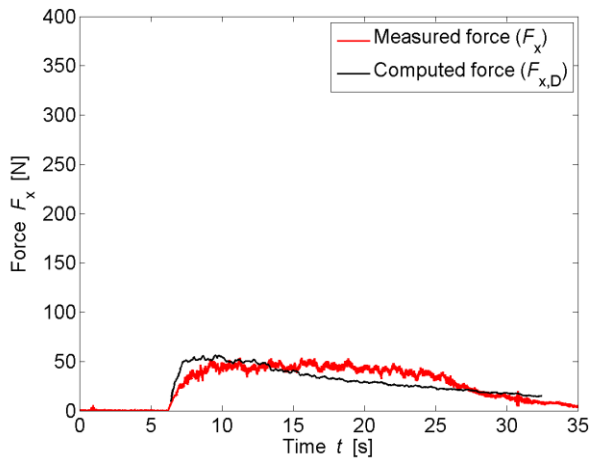


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.948	53.767	[N]
F_y	-12.844	13.366	[N]
F_z	-209.367	0.000	[N]
M_x	-3.602	3.856	[Nm]
M_y	-1.138	8.838	[Nm]
M_z	-1.038	0.430	[Nm]
Predicted Force	$F_{x,D,max}$	56.559	[N]
Initial time	t_0	6.326	[s]
Time to peak	τ_{max}	9.293	[s]
Total impulse	I_{tot}	819.867	[Ns]
Peak Impulse	I_{peak}	374.631	[Ns]
Relative impulse	I^*	0.444	[-]
Wave height at $F_{x,max}$	h_M	0.839	[-]
Resistance coefficient	C_R	1.731	[-]



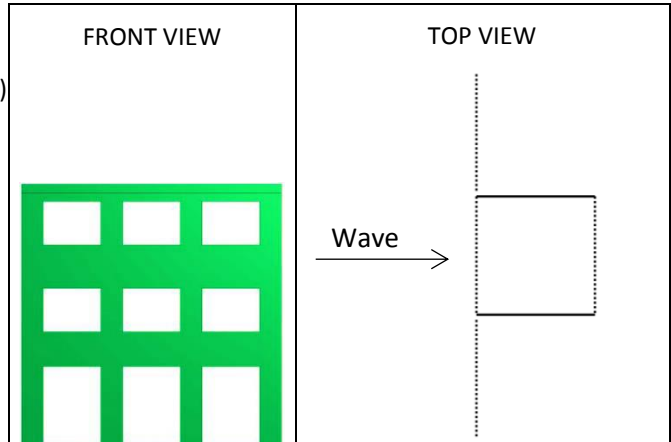
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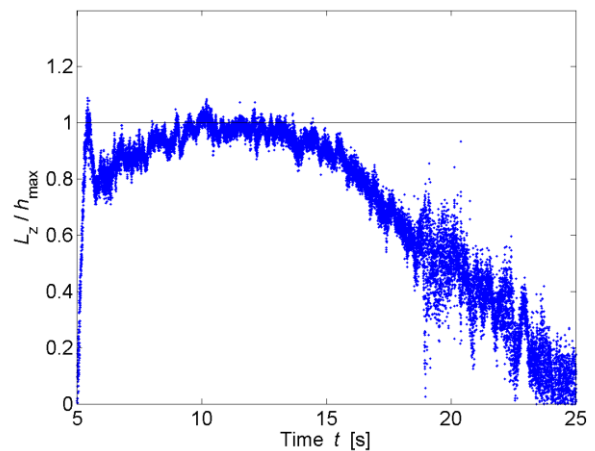
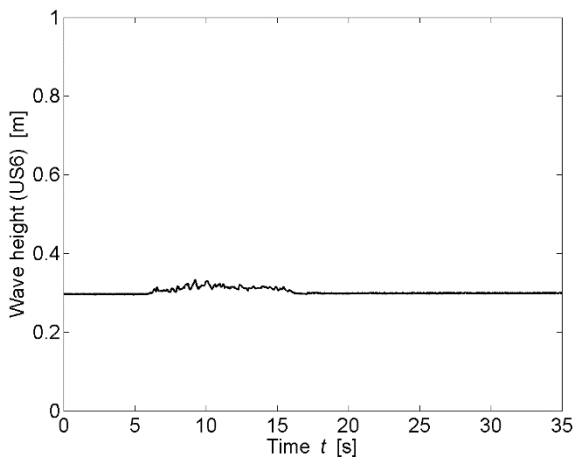
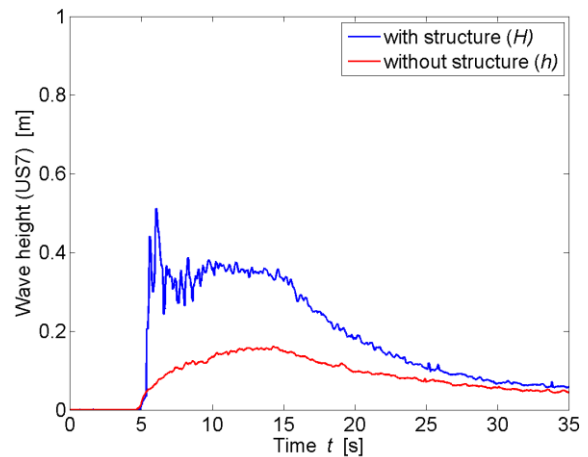
TEST PARAMETERS

Name	B42.24_S_WD2_2		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	49.71	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.078	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.511	[m]

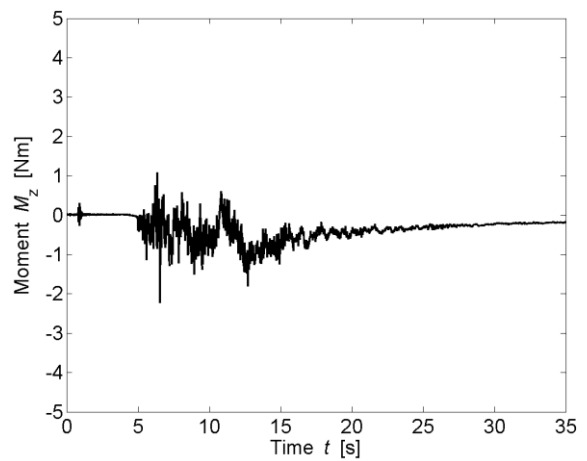
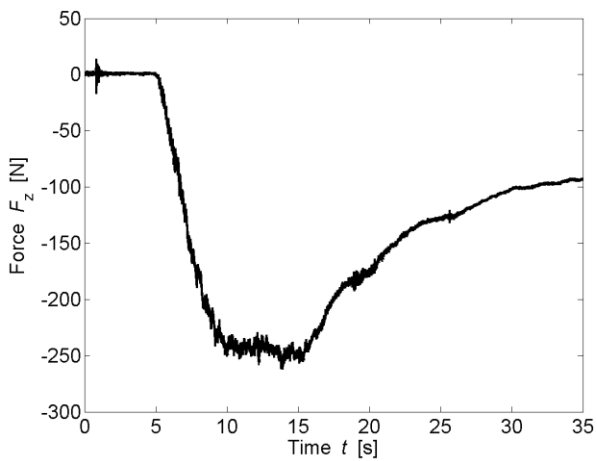
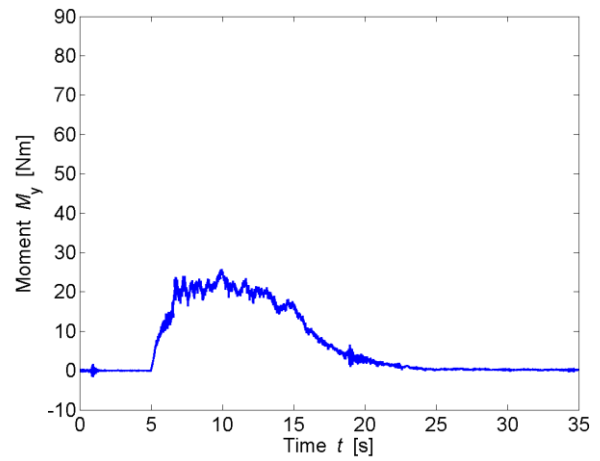
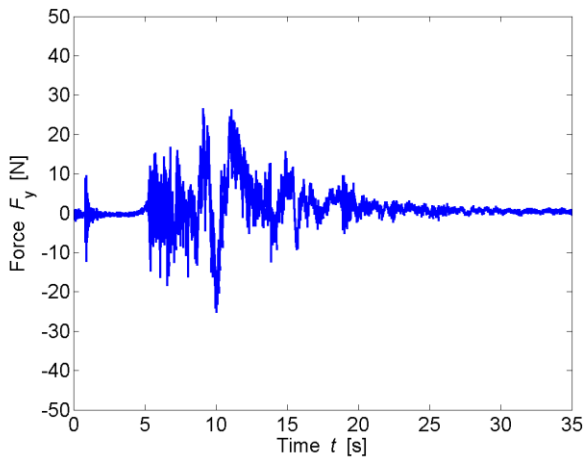
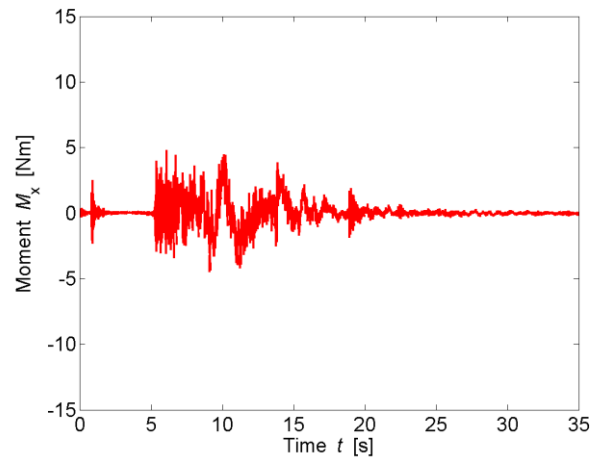
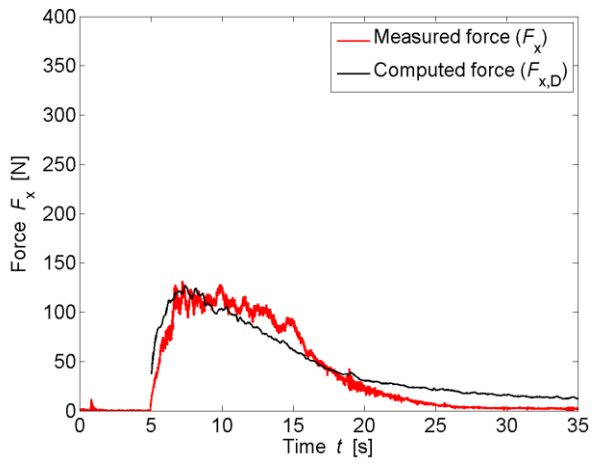


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-10.432	131.441	[N]
F_y	-25.300	26.581	[N]
F_z	-262.127	0.828	[N]
M_x	-4.477	4.786	[Nm]
M_y	-1.643	25.722	[Nm]
M_z	-2.228	1.088	[Nm]
Predicted Force	$F_{x,D,max}$	127.617	[N]
Initial time	t_0	5.028	[s]
Time to peak	τ_{max}	2.206	[s]
Total impulse	I_{tot}	1281.059	[Ns]
Peak Impulse	I_{peak}	161.224	[Ns]
Relative impulse	I^*	0.131	[-]
Wave height at $F_{x,max}$	h_M	0.605	[-]
Resistance coefficient	C_R	1.180	[-]

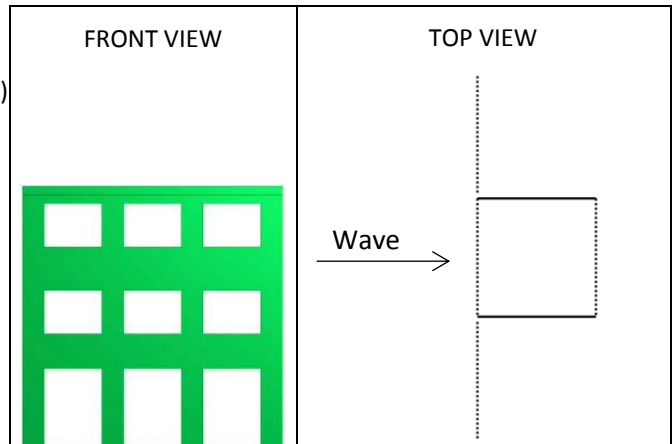


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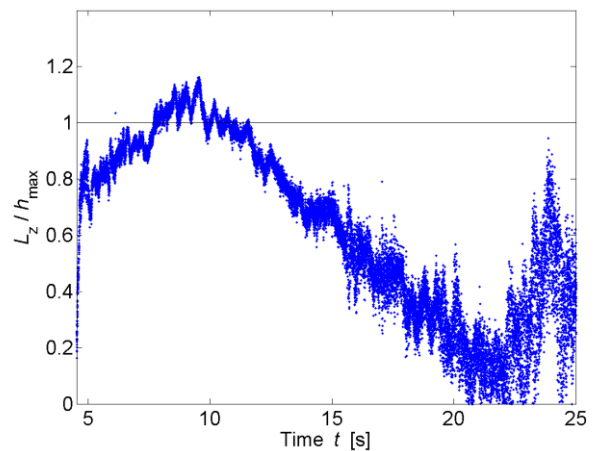
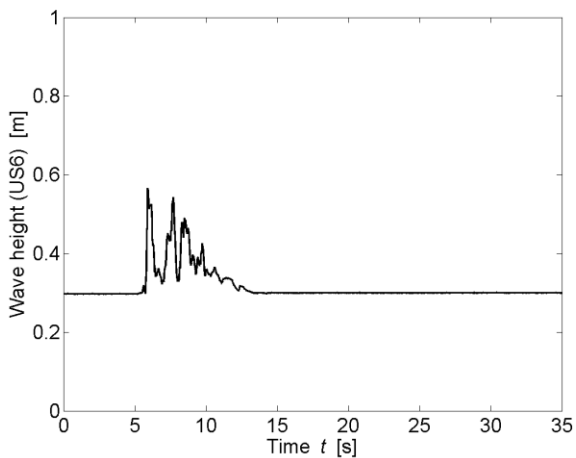
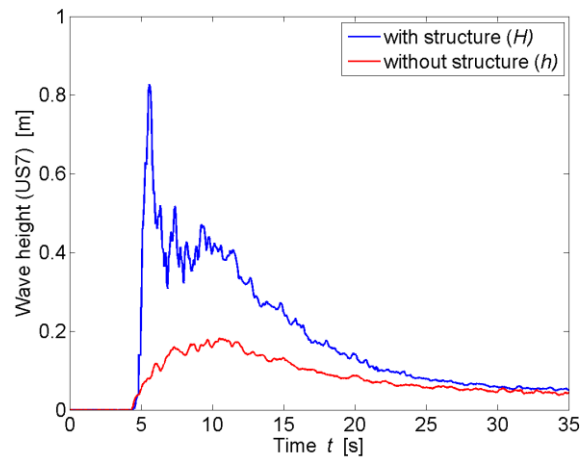
TEST PARAMETERS

Name	B42.24_S_WD3_3		
Repetitions	3		
Configuration	With side building (S)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	51.65	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.566	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.828	[m]

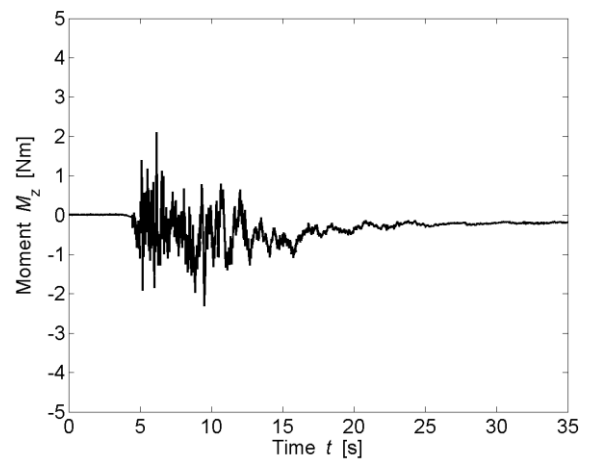
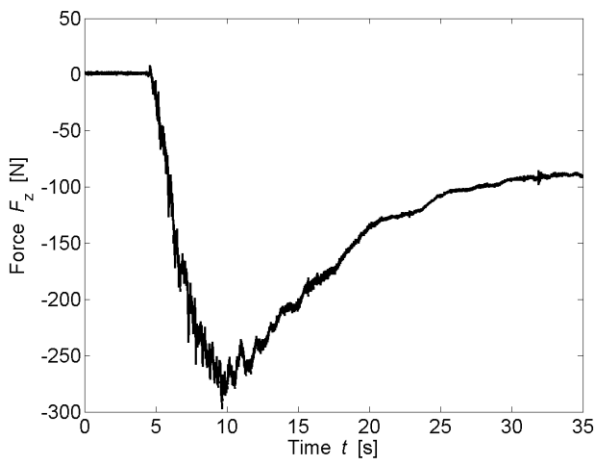
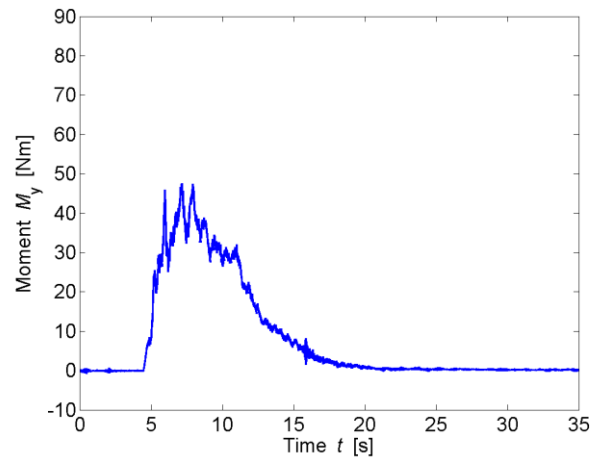
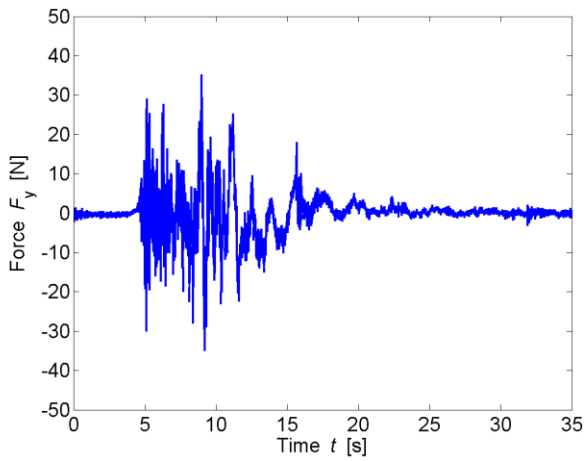
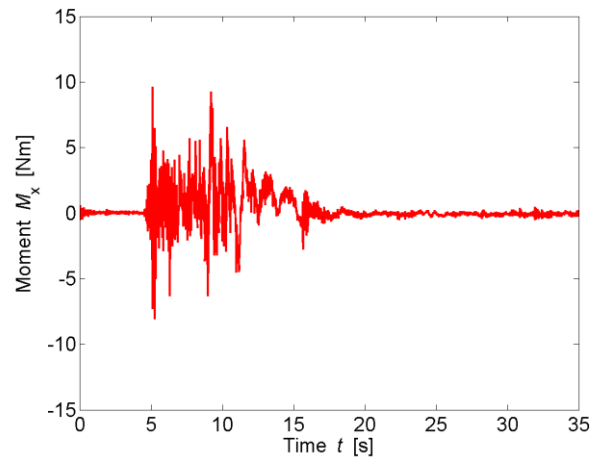
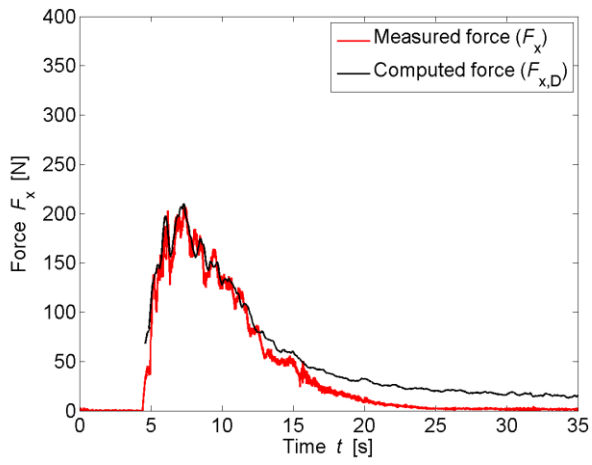


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.730	206.974	[N]
F_y	-34.967	35.171	[N]
F_z	-297.175	8.043	[N]
M_x	-8.084	9.638	[Nm]
M_y	-1.700	40.209	[Nm]
M_z	-2.304	2.099	[Nm]
Predicted Force	$F_{x,D,max}$	211.066	[N]
Initial time	t_0	4.580	[s]
Time to peak	τ_{max}	2.854	[s]
Total impulse	I_{tot}	1441.234	[Ns]
Peak Impulse	I_{peak}	401.731	[Ns]
Relative impulse	I^*	0.303	[-]
Wave height at $F_{x,max}$	h_M	0.852	[-]
Resistance coefficient	C_R	1.137	[-]



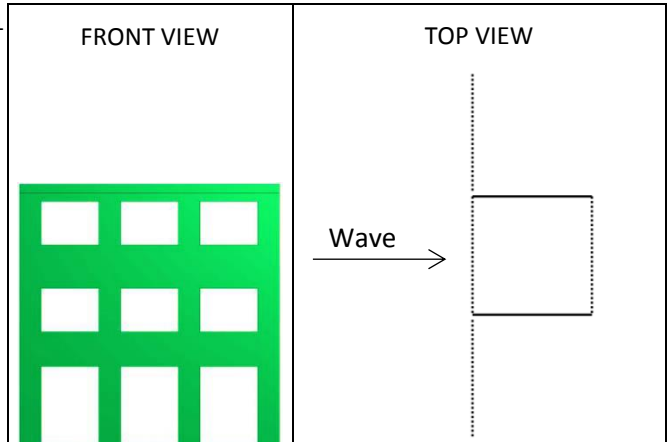
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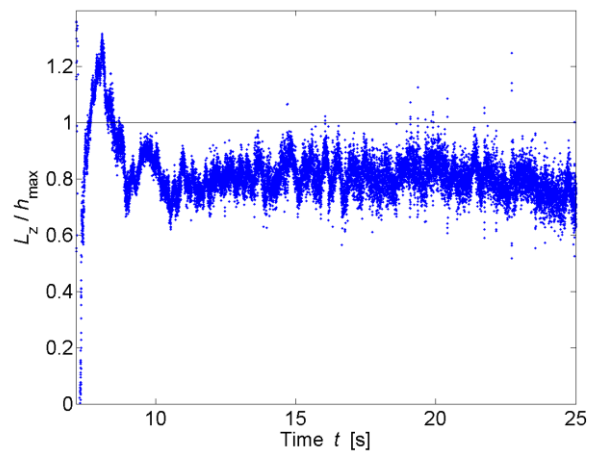
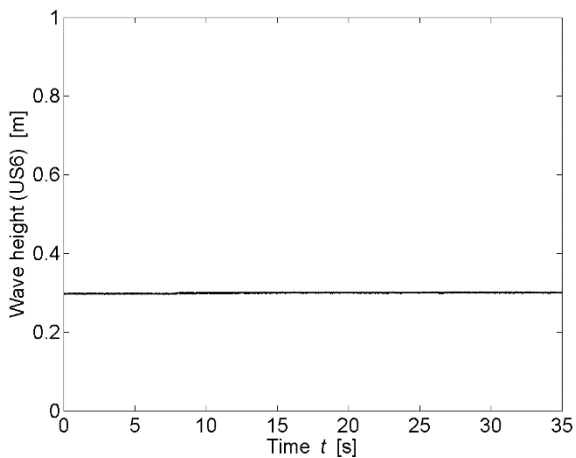
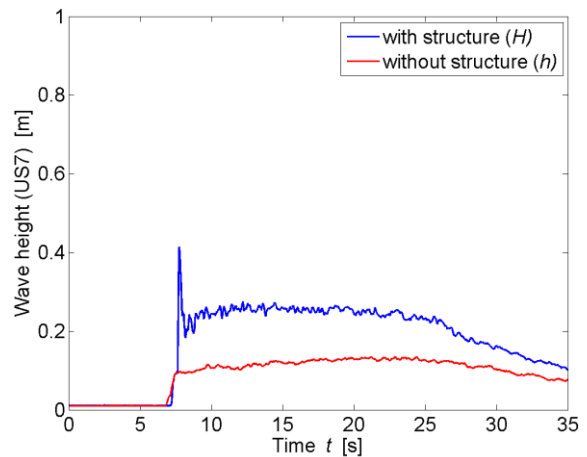
TEST PARAMETERS

Name	B42.24_S_WW1_1P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	46.64	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.104	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.413	[m]

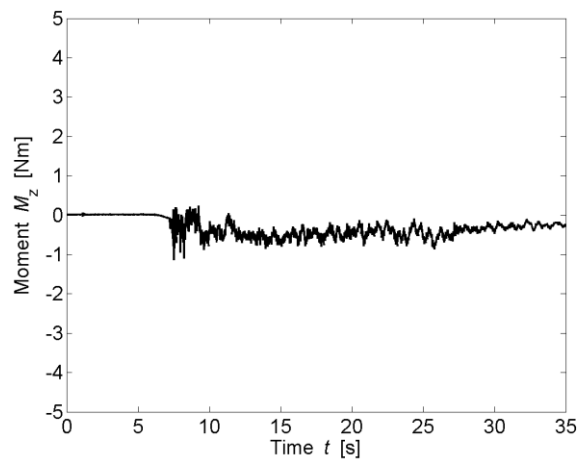
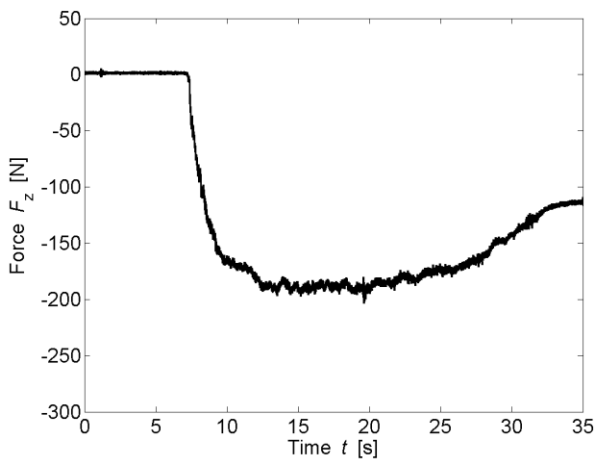
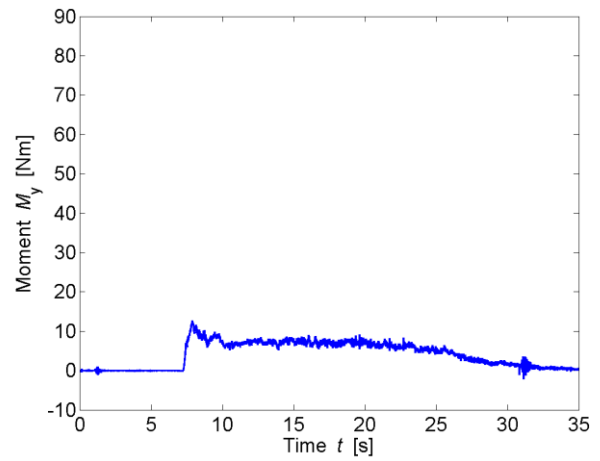
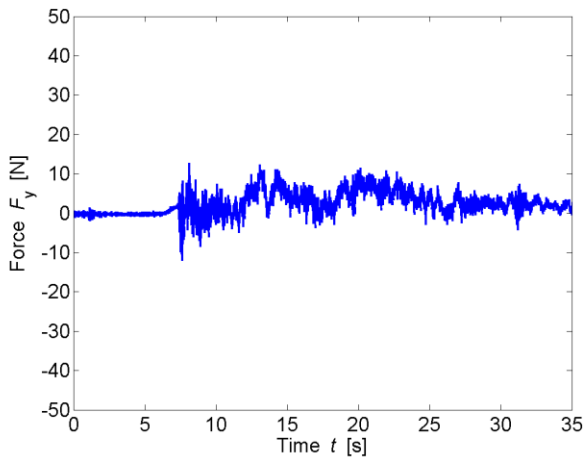
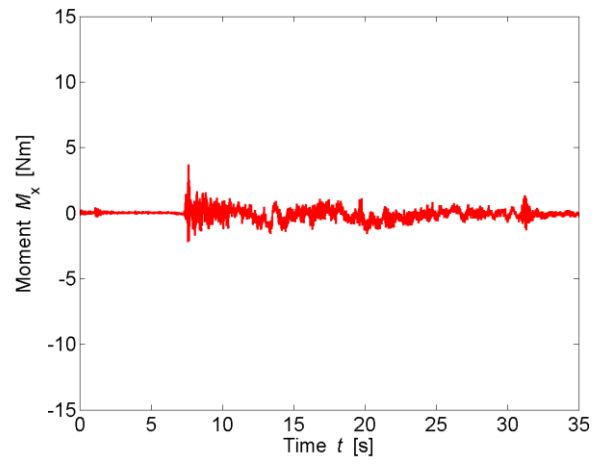
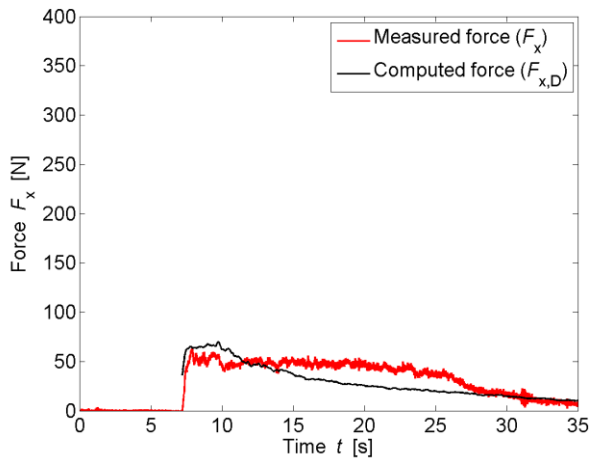


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.665	62.682	[N]
F_y	-12.085	12.730	[N]
F_z	-203.370	1.202	[N]
M_x	-2.181	3.684	[Nm]
M_y	-2.145	12.708	[Nm]
M_z	-1.142	0.245	[Nm]
Predicted Force	$F_{x,D,max}$	70.124	[N]
Initial time	t_0	7.221	[s]
Time to peak	τ_{max}	0.665	[s]
Total impulse	I_{tot}	905.487	[Ns]
Peak Impulse	I_{peak}	25.724	[Ns]
Relative impulse	I^*	0.028	[-]
Wave height at $F_{x,max}$	h_M	0.708	[-]
Resistance coefficient	C_R	1.185	[-]

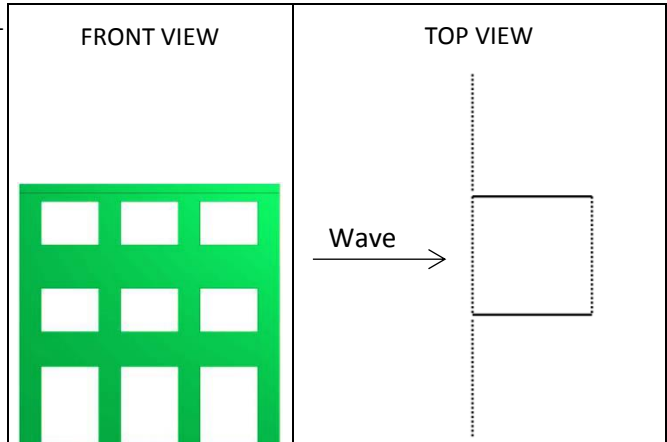


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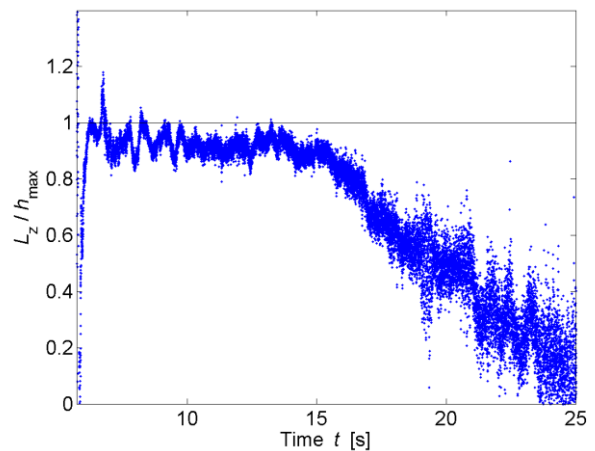
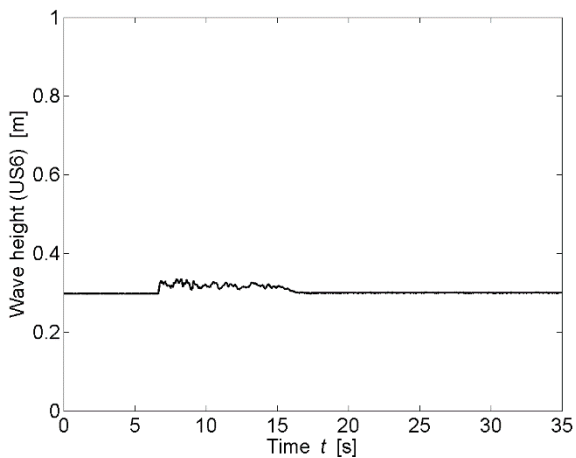
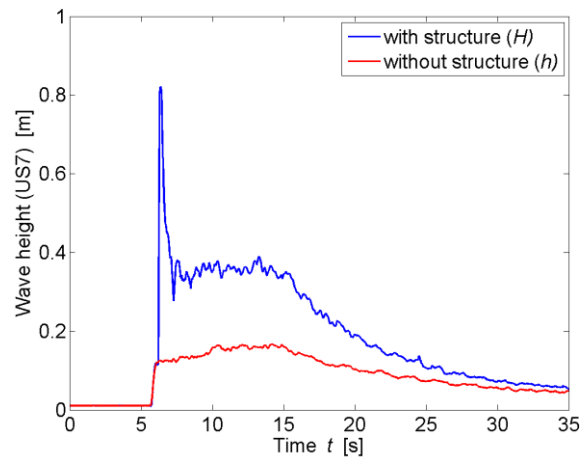
TEST PARAMETERS

Name	B42.24_S_WW1_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	50.40	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.704	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.821	[m]

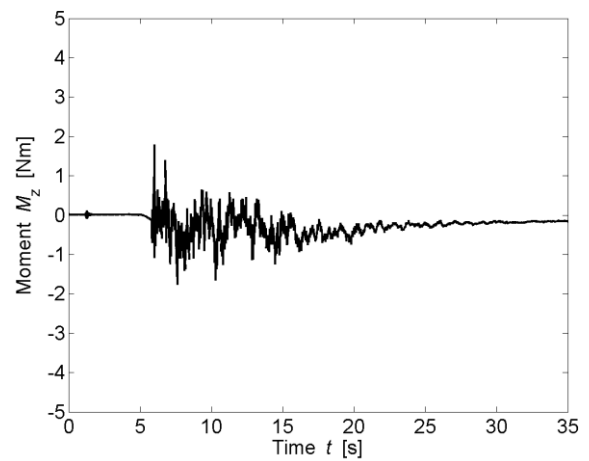
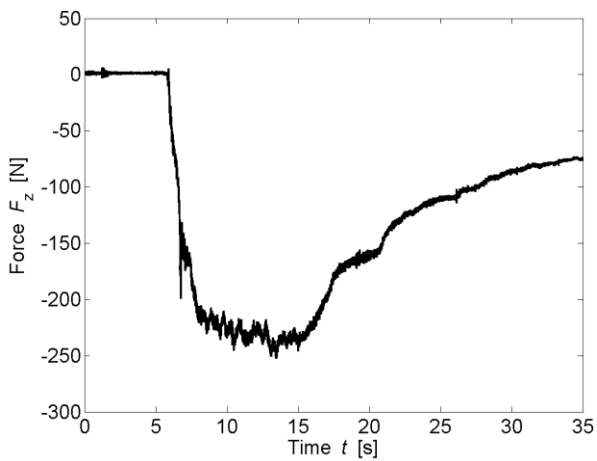
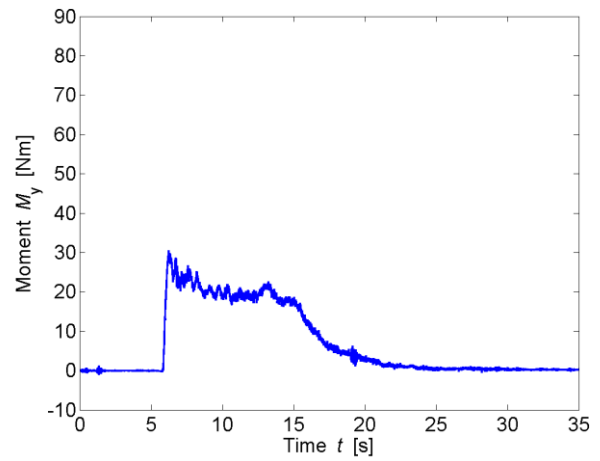
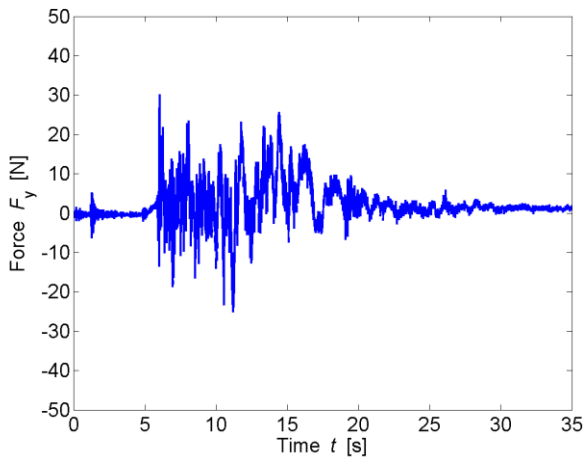
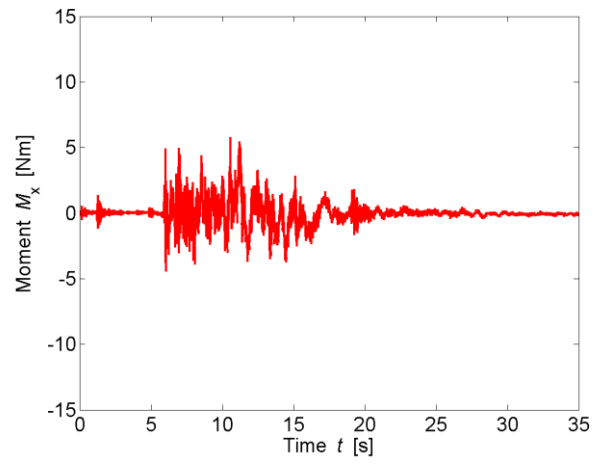
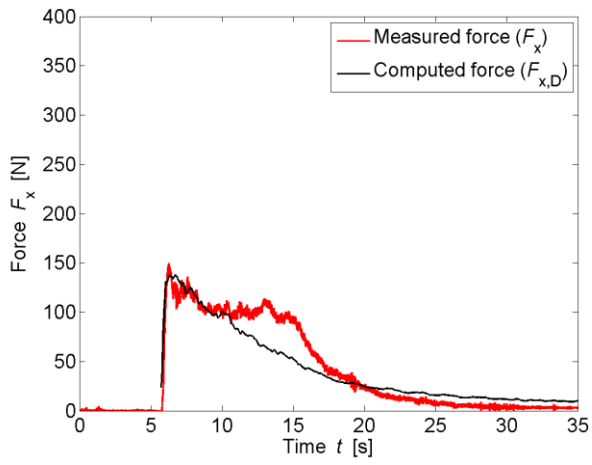


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.585	149.731	[N]
F_y	-25.178	30.178	[N]
F_z	-252.381	5.326	[N]
M_x	-4.422	5.795	[Nm]
M_y	-1.554	30.575	[Nm]
M_z	-1.760	1.796	[Nm]
Predicted Force	$F_{x,D,max}$	138.595	[N]
Initial time	t_0	5.780	[s]
Time to peak	τ_{max}	0.482	[s]
Total impulse	I_{tot}	1305.699	[Ns]
Peak Impulse	I_{peak}	39.887	[Ns]
Relative impulse	I^*	0.032	[-]
Wave height at $F_{x,max}$	h_M	0.740	[-]
Resistance coefficient	C_R	1.243	[-]

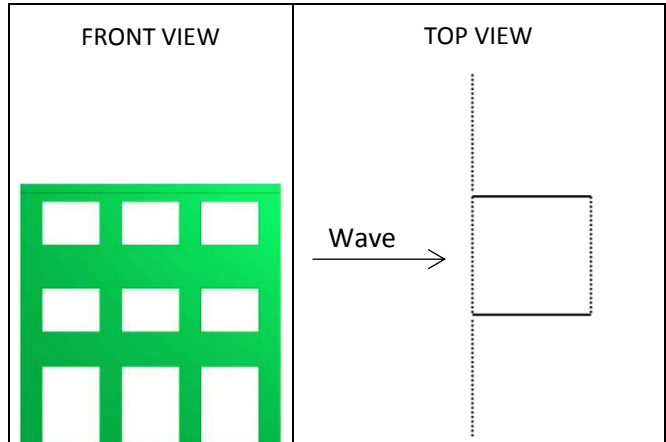


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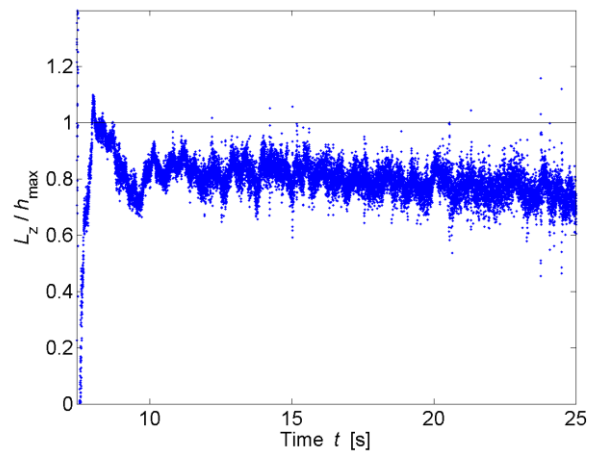
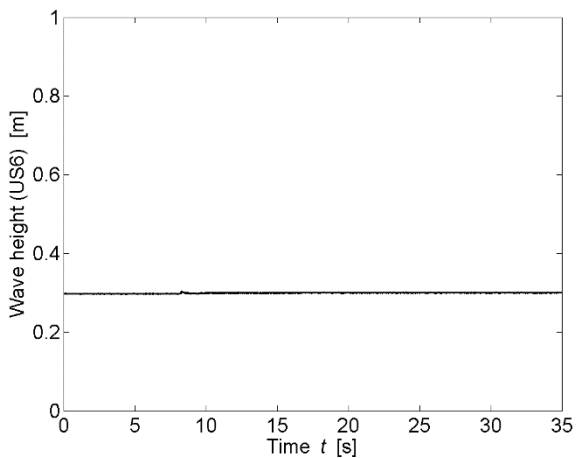
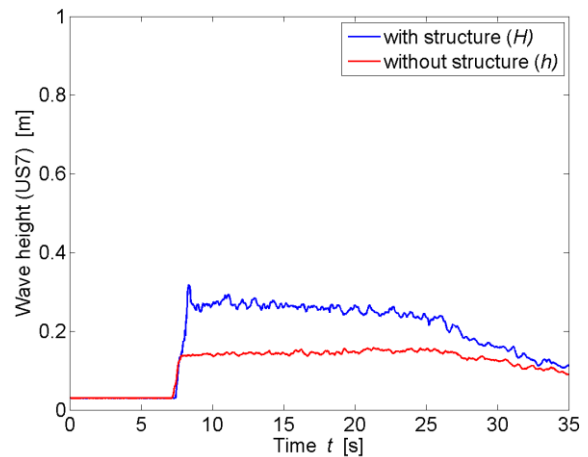
TEST PARAMETERS

Name	B42.24_S_WW3_1P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	49.37	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.975	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.318	[m]

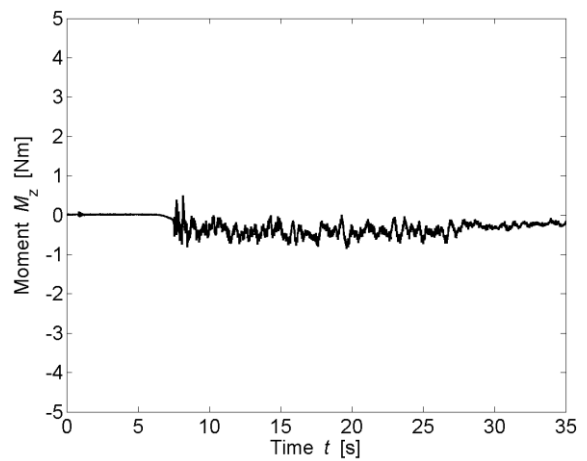
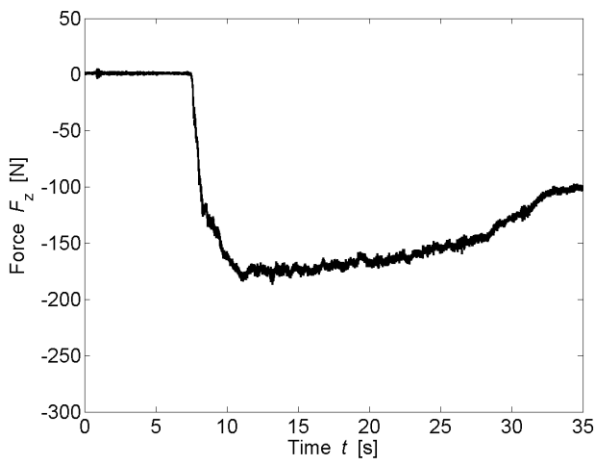
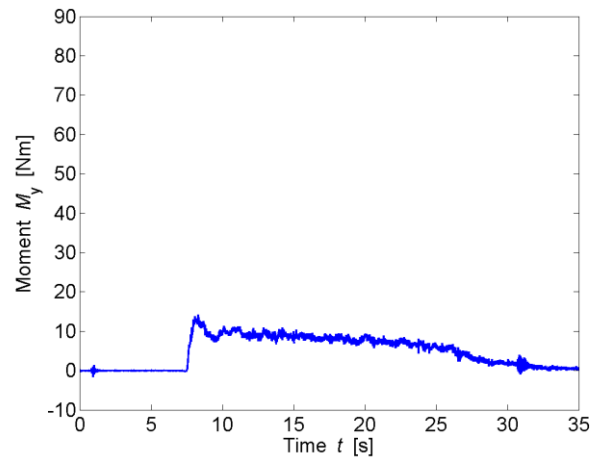
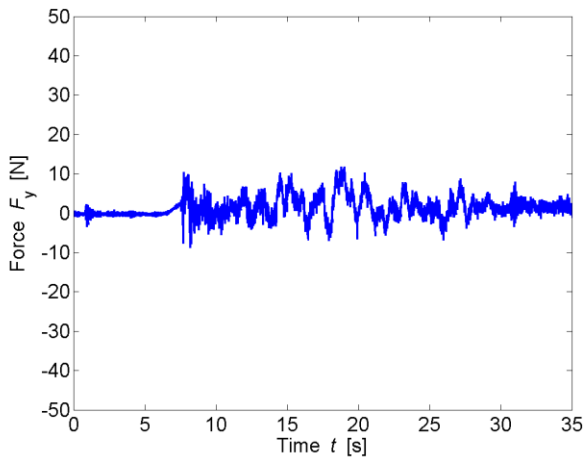
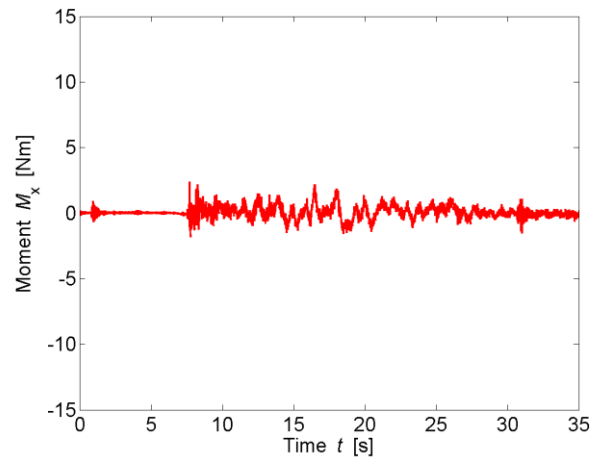
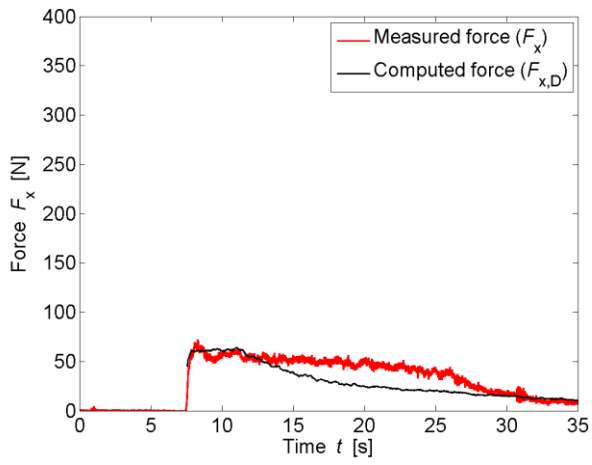


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.754	72.287	[N]
F_y	-8.757	11.824	[N]
F_z	-186.970	1.296	[N]
M_x	-1.798	2.386	[Nm]
M_y	-1.575	14.168	[Nm]
M_z	-0.847	0.493	[Nm]
Predicted Force	$F_{x,D,max}$	64.117	[N]
Initial time	t_0	7.463	[s]
Time to peak	τ_{max}	0.862	[s]
Total impulse	I_{tot}	963.740	[Ns]
Peak Impulse	I_{peak}	42.586	[Ns]
Relative impulse	I^*	0.043	[-]
Wave height at $F_{x,max}$	h_M	0.880	[-]
Resistance coefficient	C_R	1.286	[-]



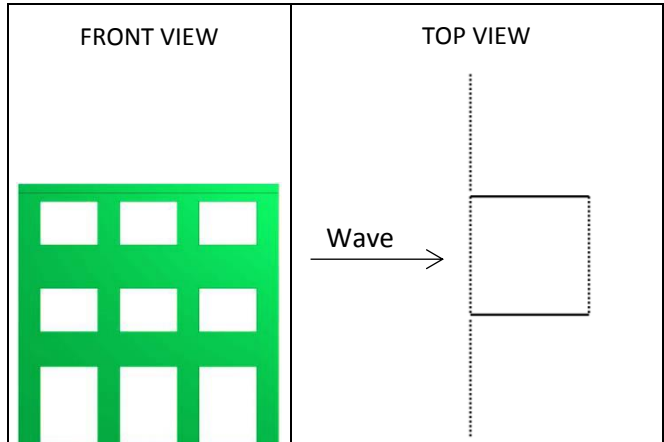
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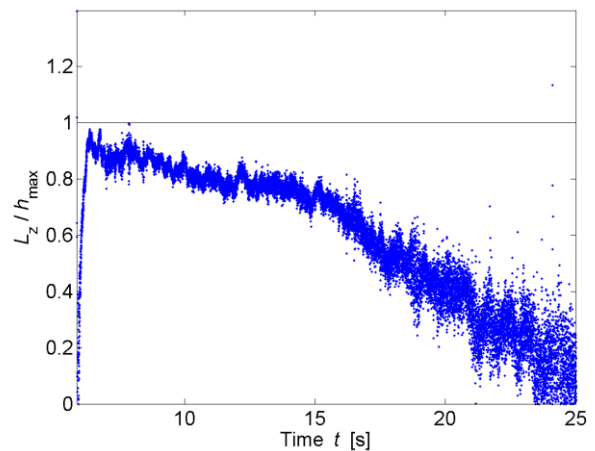
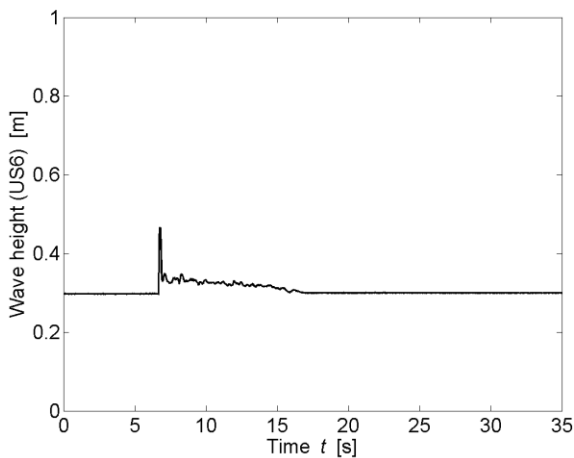
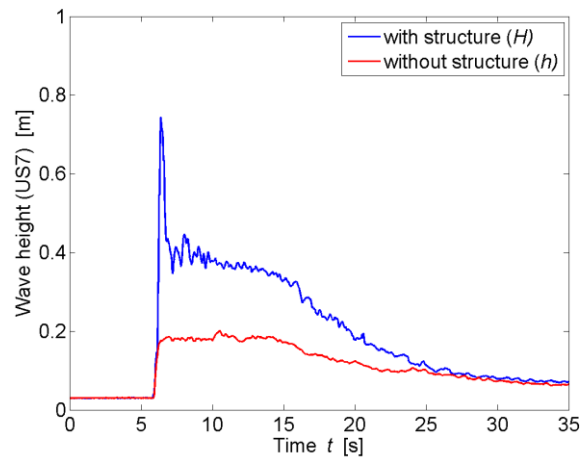
TEST PARAMETERS

Name	B42.24_S_WW3_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	42.24	[%]
Porosity at h_{max}	$P_{h,max}$	47.37	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.542	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.743	[m]

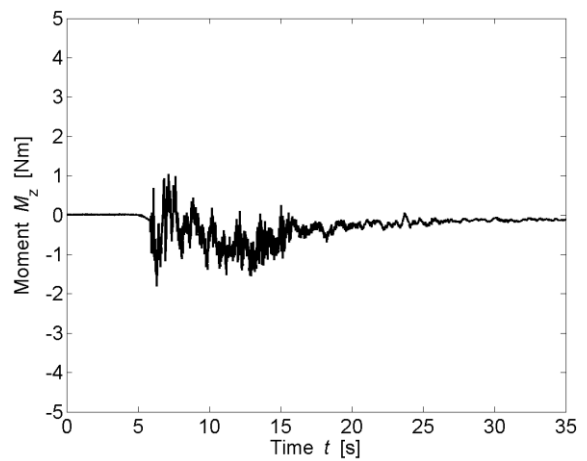
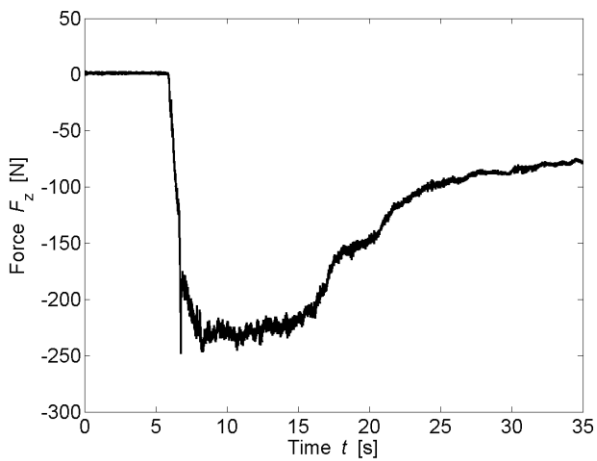
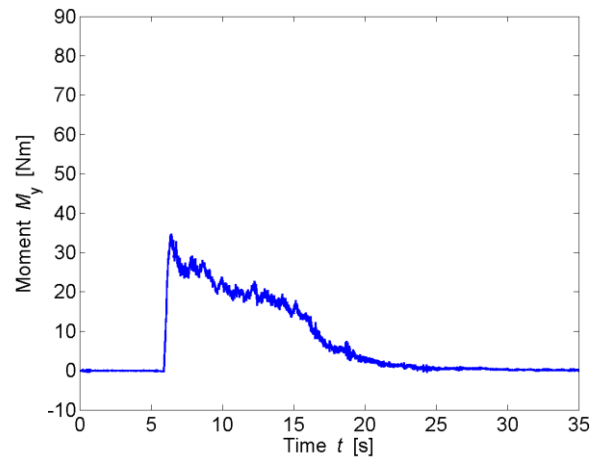
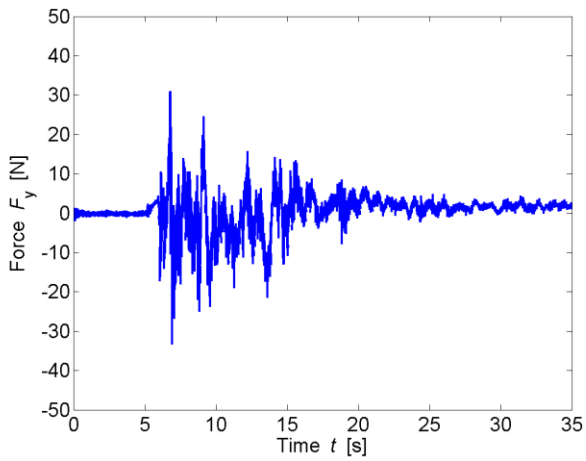
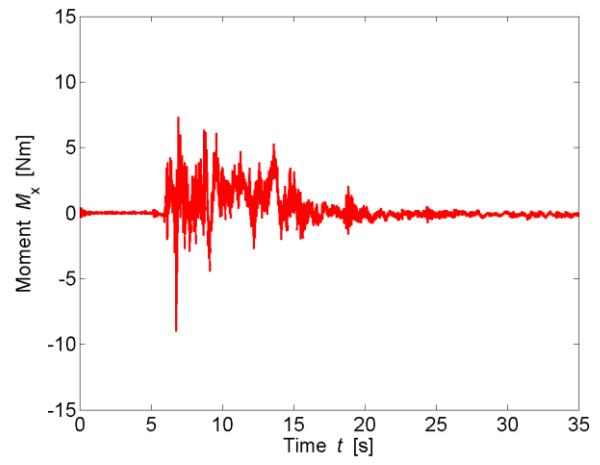
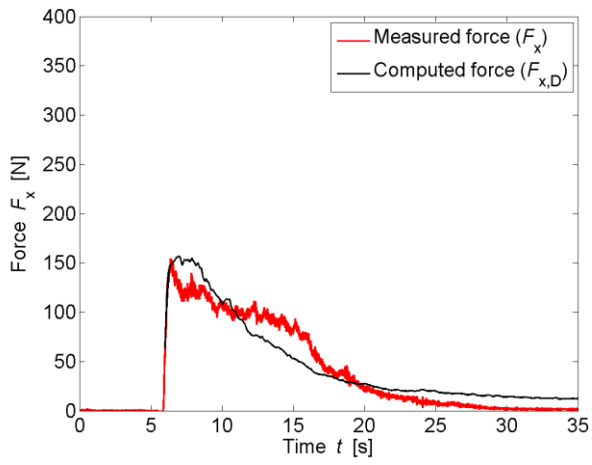


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.472	154.304	[N]
F_y	-33.351	30.986	[N]
F_z	-248.258	0.000	[N]
M_x	-8.993	7.340	[Nm]
M_y	-0.656	34.733	[Nm]
M_z	-1.806	1.047	[Nm]
Predicted Force	$F_{x,D,max}$	157.337	[N]
Initial time	t_0	5.907	[s]
Time to peak	τ_{max}	0.479	[s]
Total impulse	I_{tot}	1302.738	[Ns]
Peak Impulse	I_{peak}	48.080	[Ns]
Relative impulse	I^*	0.038	[-]
Wave height at $F_{x,max}$	h_M	0.874	[-]
Resistance coefficient	C_R	1.273	[-]

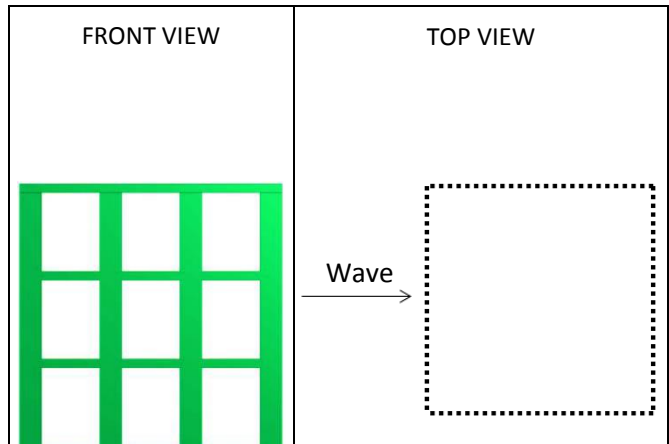


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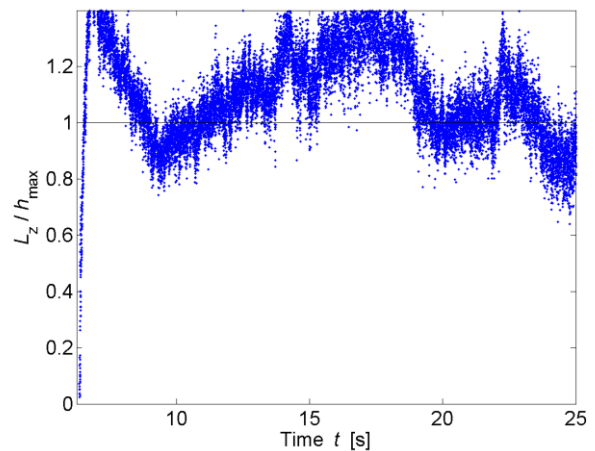
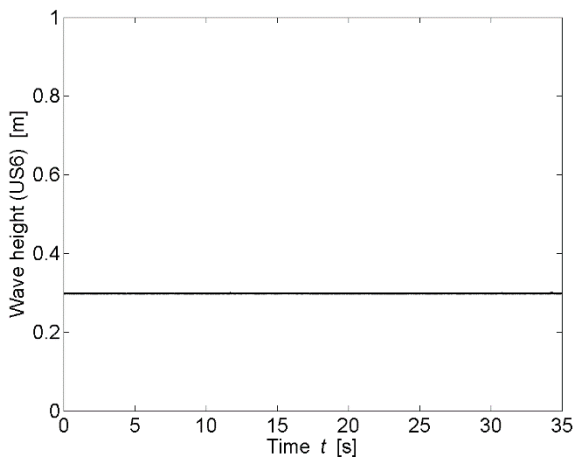
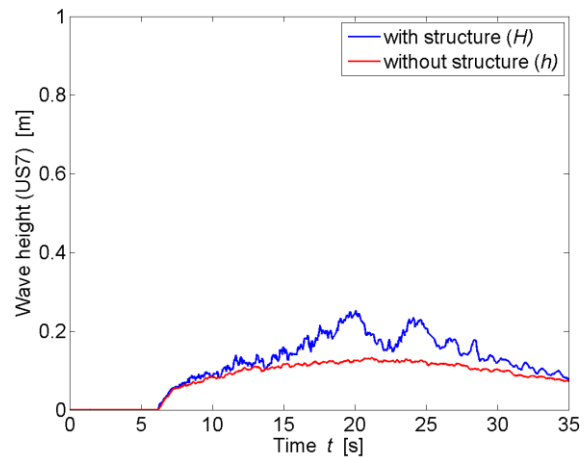
TEST PARAMETERS

Name	B60_0_WD1_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	61.15	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.358	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.252	[m]

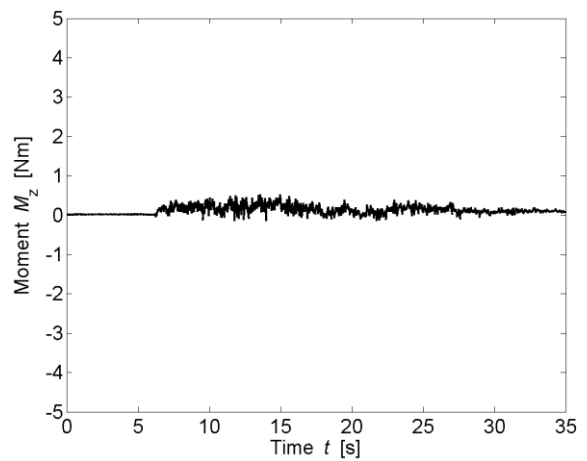
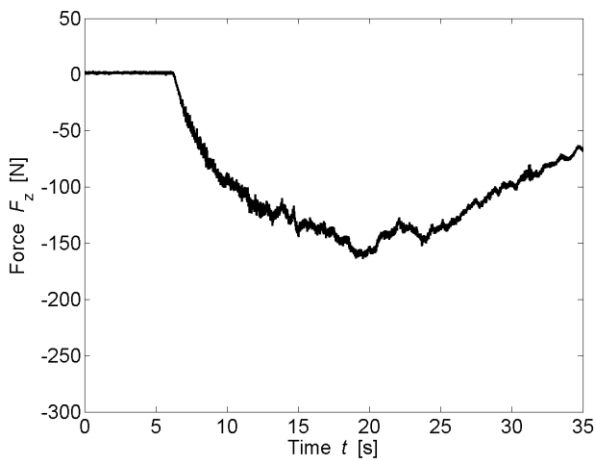
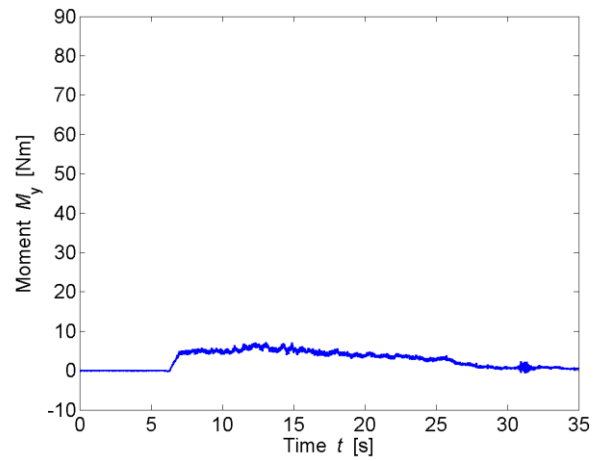
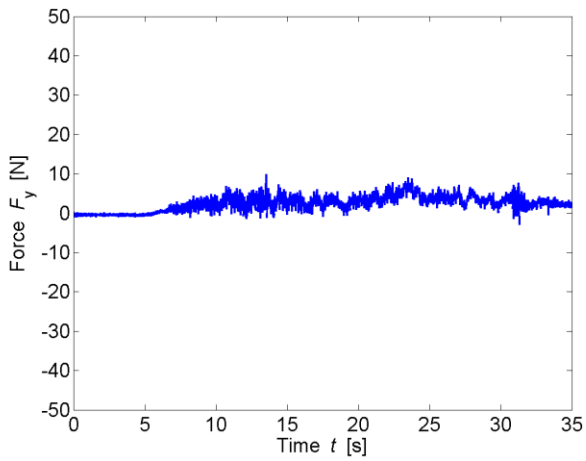
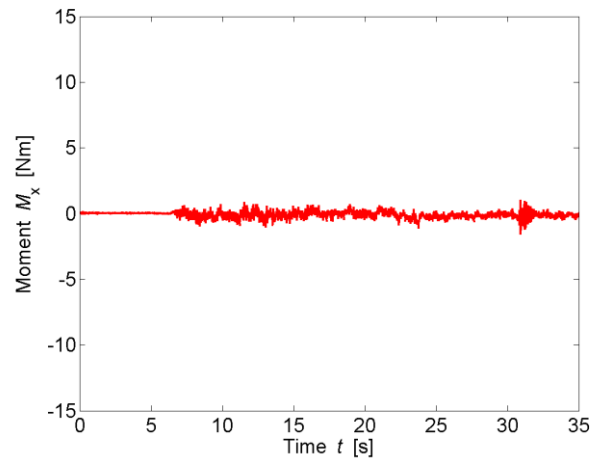
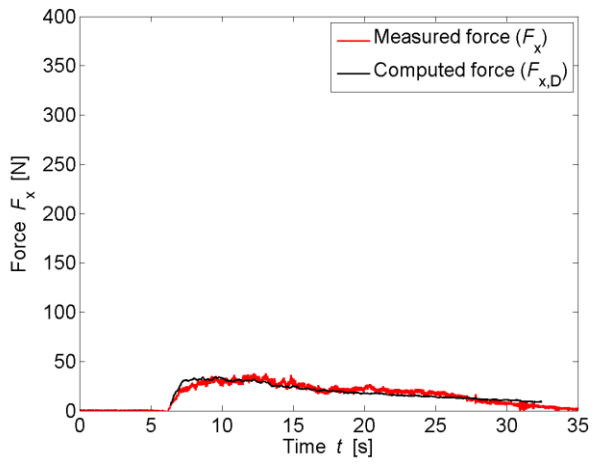


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.673	38.053	[N]
F_y	-2.933	9.891	[N]
F_z	-163.730	0.734	[N]
M_x	-1.554	1.024	[Nm]
M_y	-0.630	7.117	[Nm]
M_z	-0.146	0.527	[Nm]
Predicted Force	$F_{x,D,max}$	34.308	[N]
Initial time	t_0	6.286	[s]
Time to peak	τ_{max}	5.938	[s]
Total impulse	I_{tot}	476.176	[Ns]
Peak Impulse	I_{peak}	156.338	[Ns]
Relative impulse	I^*	0.319	[-]
Wave height at $F_{x,max}$	h_M	0.799	[-]
Resistance coefficient	C_R	0.892	[-]

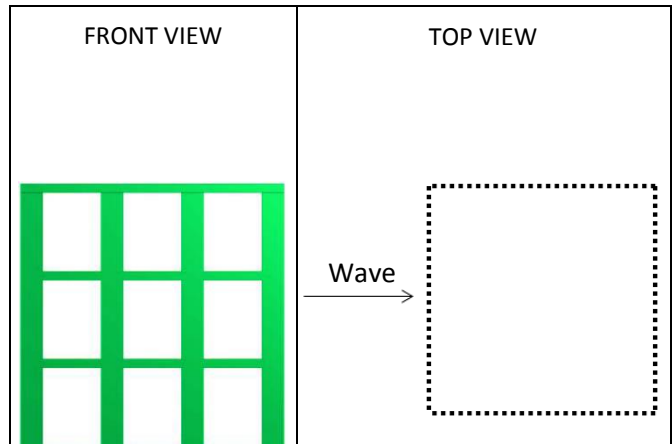


* All parameters are presented and defined at the beginning of the Appendix



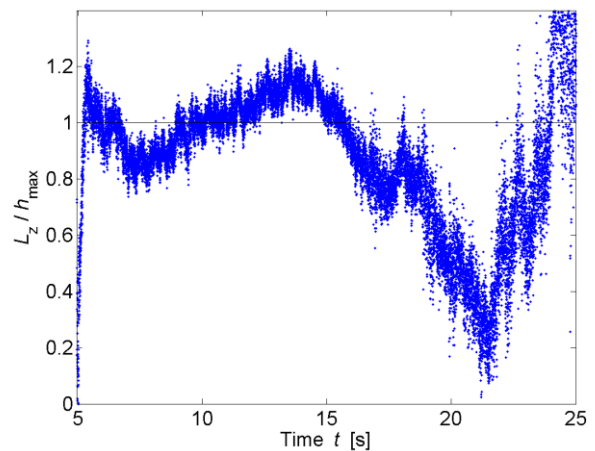
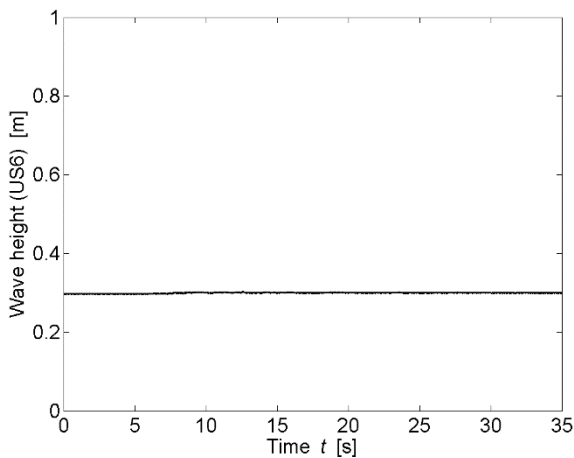
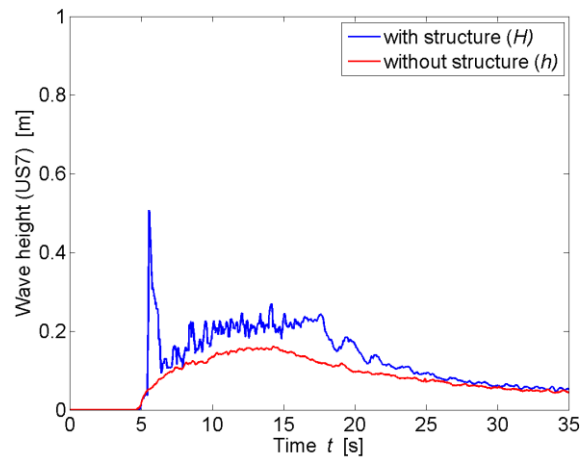
TEST PARAMETERS

Name	B60_0_WD2_ 1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.17	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.080	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.507	[m]

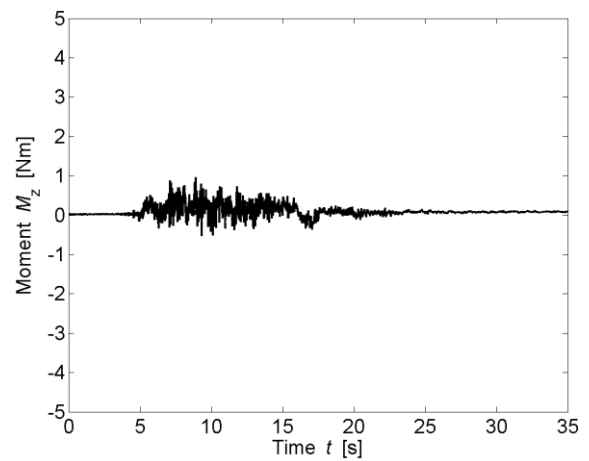
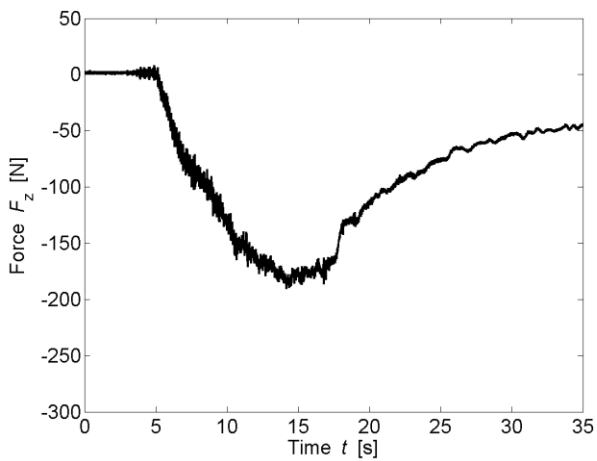
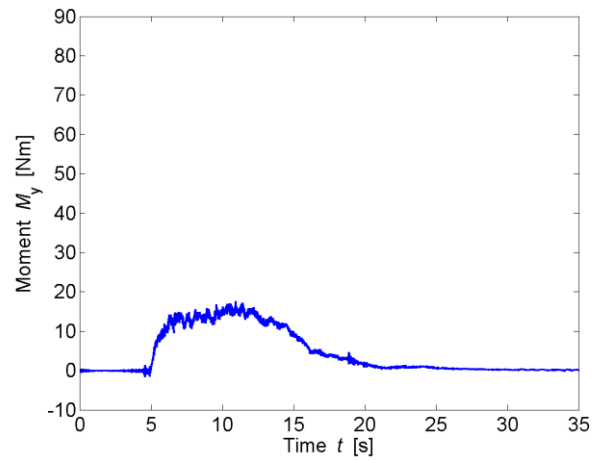
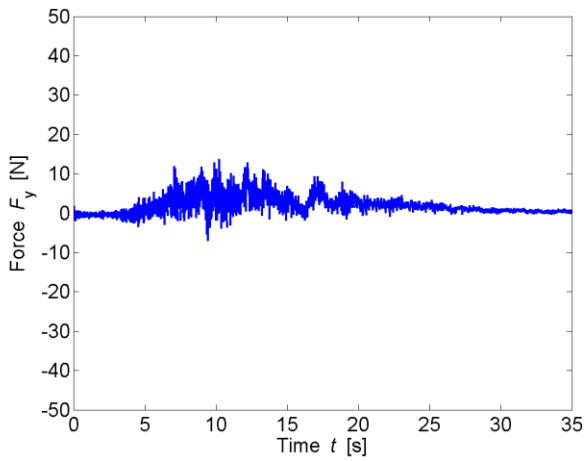
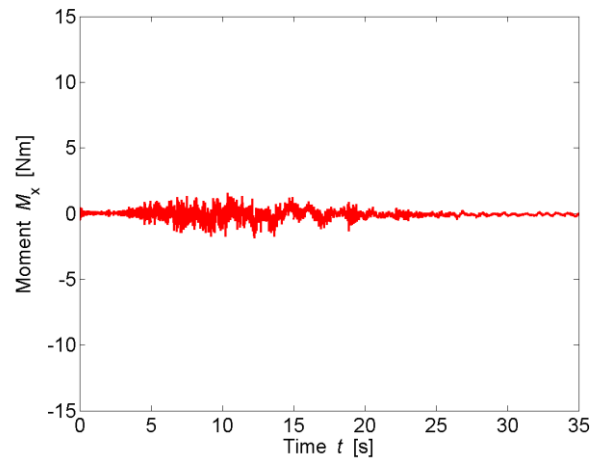
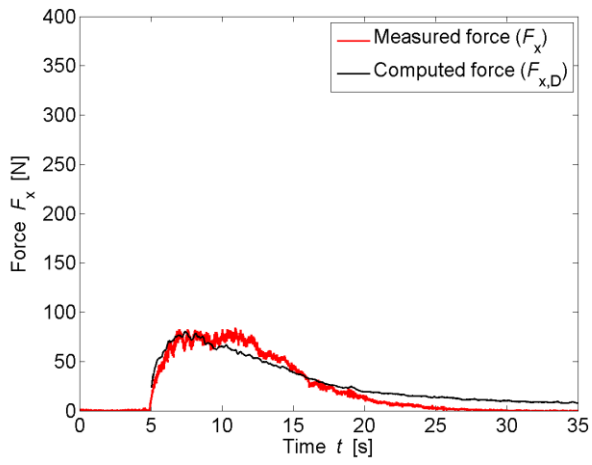


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.359	84.359	[N]
F_y	-7.068	13.733	[N]
F_z	-190.625	6.263	[N]
M_x	-1.866	1.566	[Nm]
M_y	-1.614	17.527	[Nm]
M_z	-0.526	0.954	[Nm]
Predicted Force	$F_{x,D,max}$	80.338	[N]
Initial time	t_0	4.986	[s]
Time to peak	τ_{max}	5.952	[s]
Total impulse	I_{tot}	796.182	[Ns]
Peak Impulse	I_{peak}	388.098	[Ns]
Relative impulse	I^*	0.501	[-]
Wave height at $F_{x,max}$	h_M	0.904	[-]
Resistance coefficient	C_R	0.965	[-]

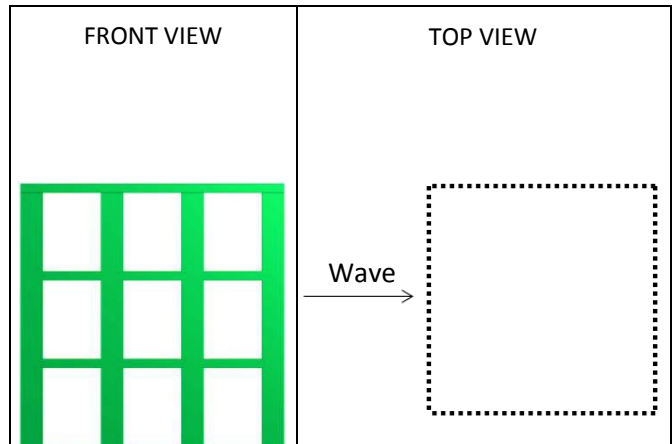


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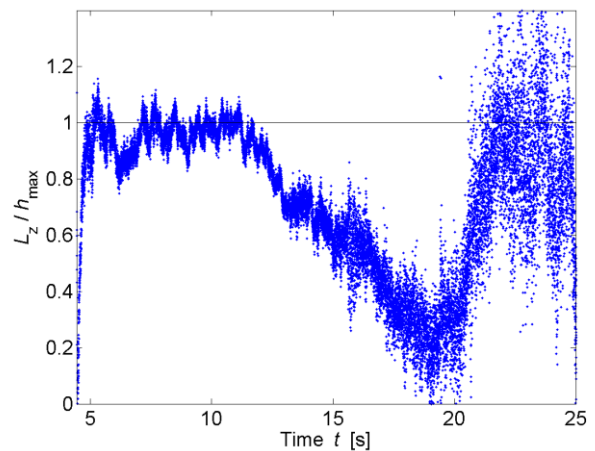
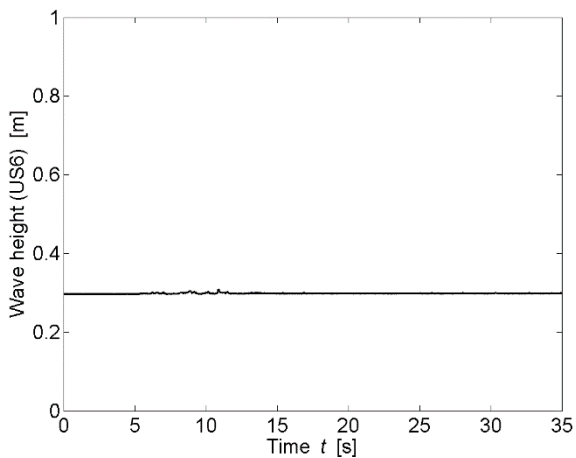
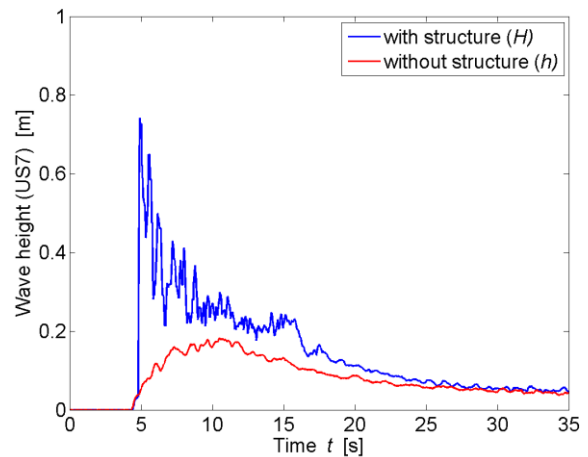
TEST PARAMETERS

Name	B60_0_WD3_2		
Repetitions	2		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.87	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.541	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.741	[m]

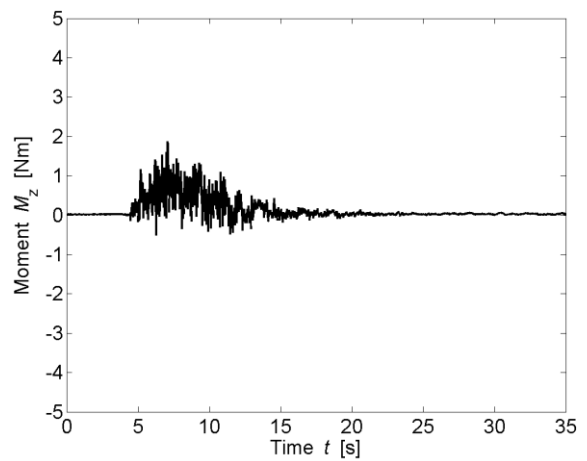
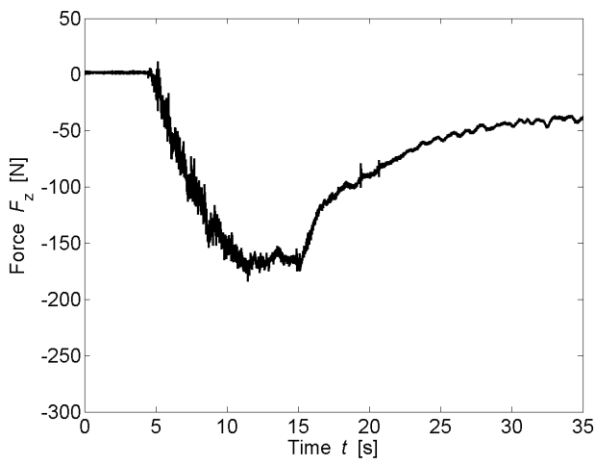
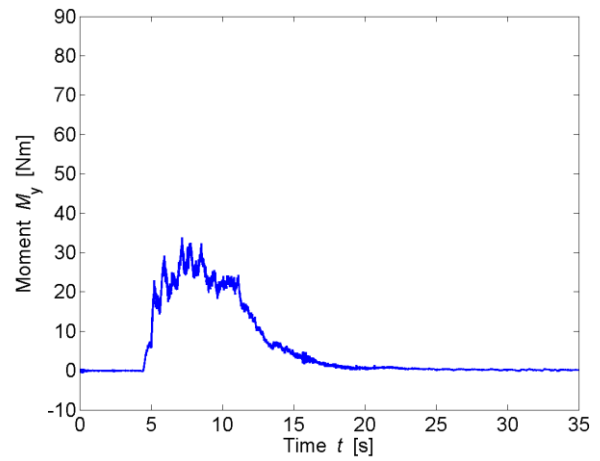
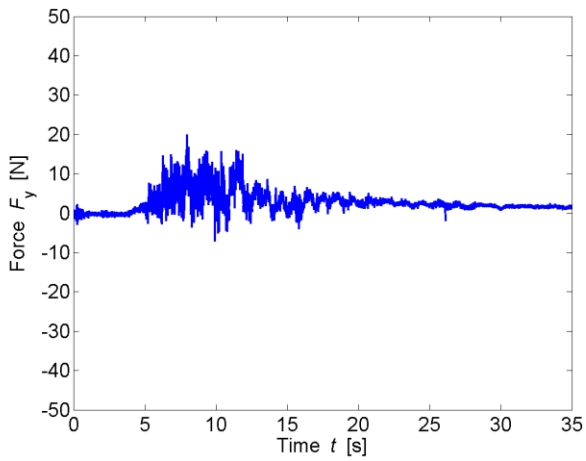
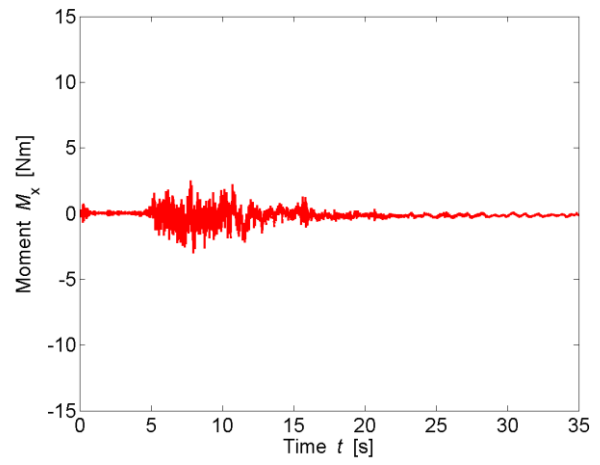
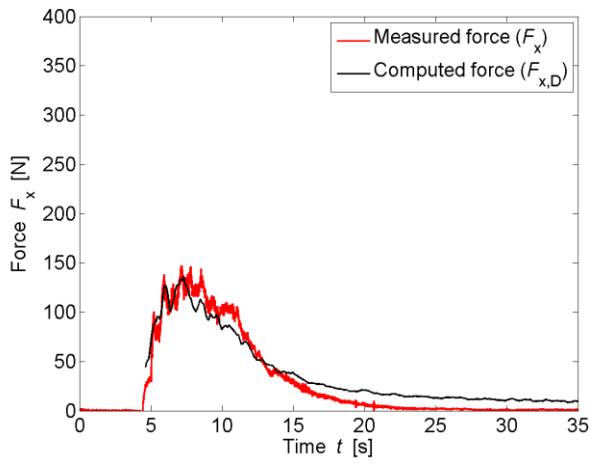


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.399	147.288	[N]
F_y	-7.215	19.924	[N]
F_z	-183.690	11.511	[N]
M_x	-2.984	2.527	[Nm]
M_y	-0.607	33.738	[Nm]
M_z	-0.515	1.873	[Nm]
Predicted Force	$F_{x,D,max}$	135.639	[N]
Initial time	t_0	4.497	[s]
Time to peak	τ_{max}	2.687	[s]
Total impulse	I_{tot}	984.896	[Ns]
Peak Impulse	I_{peak}	238.935	[Ns]
Relative impulse	I^*	0.251	[-]
Wave height at $F_{x,max}$	h_M	0.838	[-]
Resistance coefficient	C_R	0.780	[-]

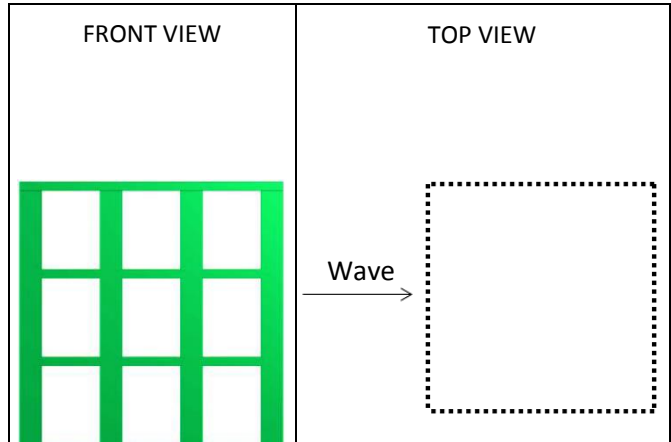


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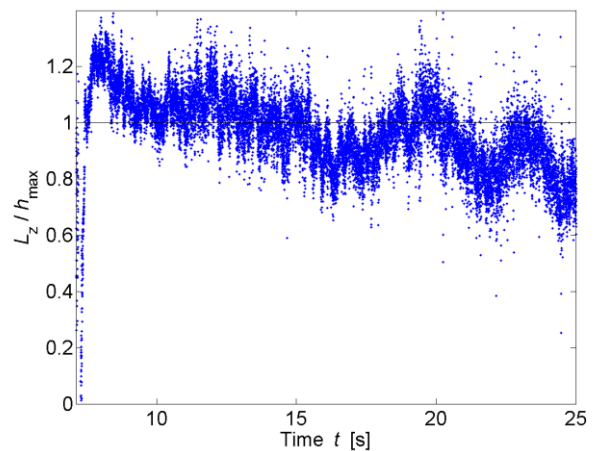
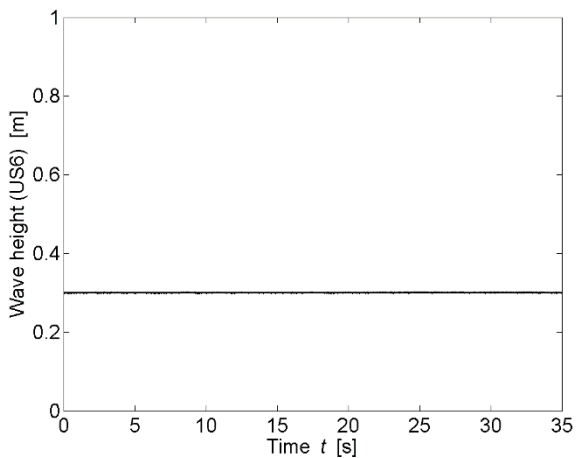
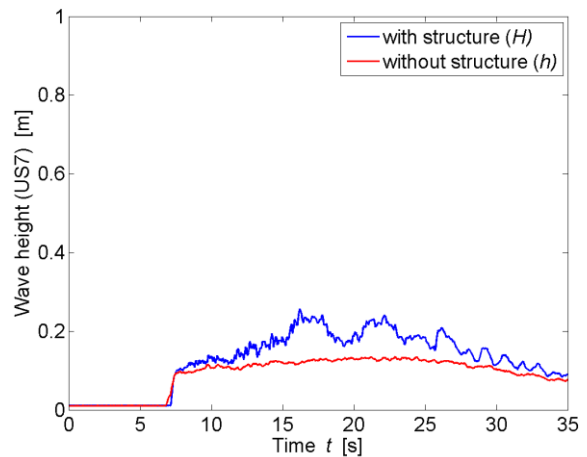
TEST PARAMETERS

Name	B60_0_WW1_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	61.22	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.085	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.256	[m]

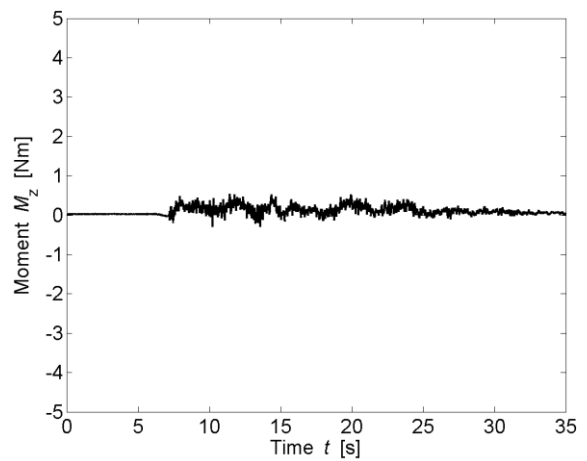
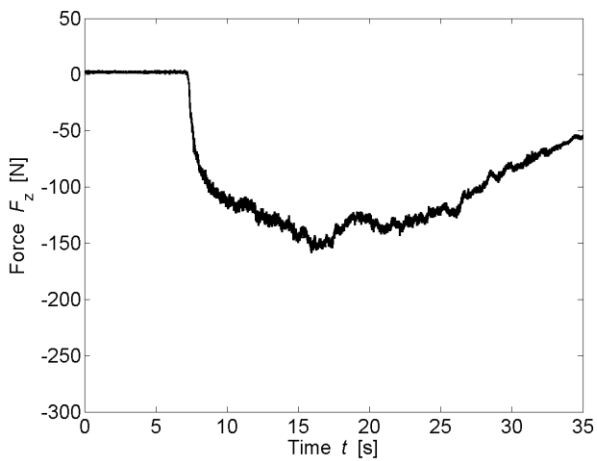
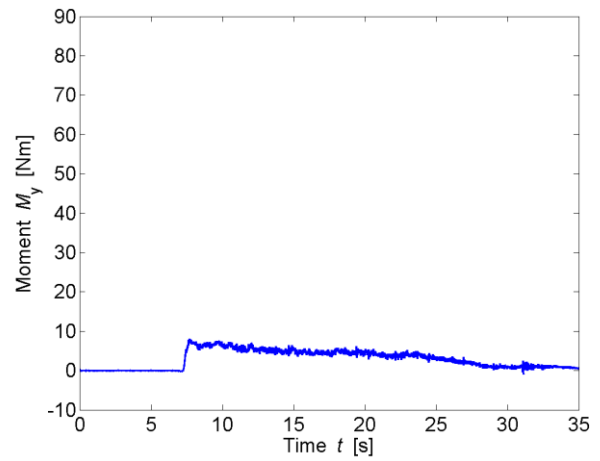
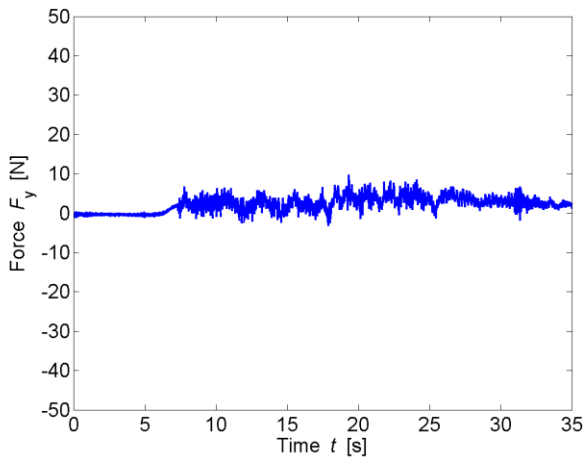
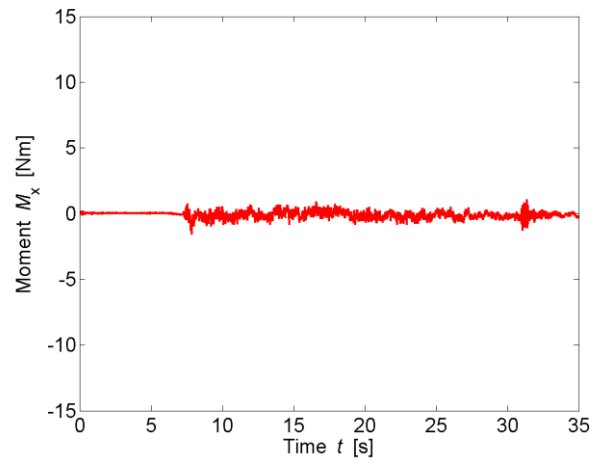
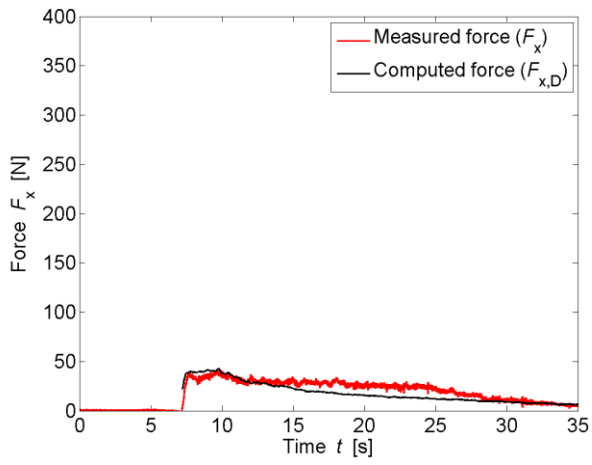


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.819	42.020	[N]
F_y	-3.202	9.793	[N]
F_z	-158.763	2.702	[N]
M_x	-1.554	1.086	[Nm]
M_y	-0.884	8.009	[Nm]
M_z	-0.295	0.538	[Nm]
Predicted Force	$F_{x,D,max}$	42.641	[N]
Initial time	t_0	7.191	[s]
Time to peak	τ_{max}	2.456	[s]
Total impulse	I_{tot}	552.409	[Ns]
Peak Impulse	I_{peak}	78.697	[Ns]
Relative impulse	I^*	0.139	[-]
Wave height at $F_{x,max}$	h_M	0.814	[-]
Resistance coefficient	C_R	0.742	[-]

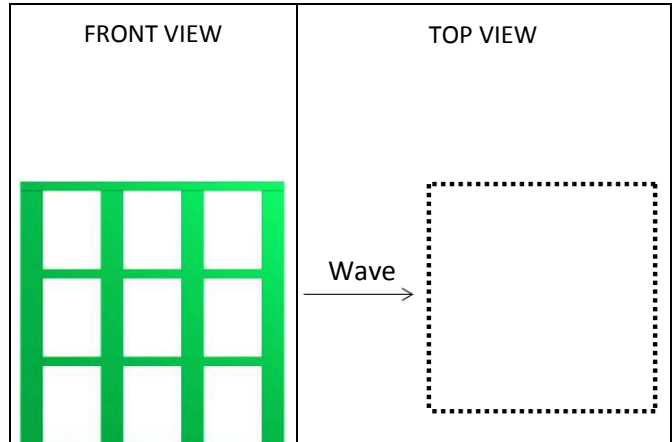


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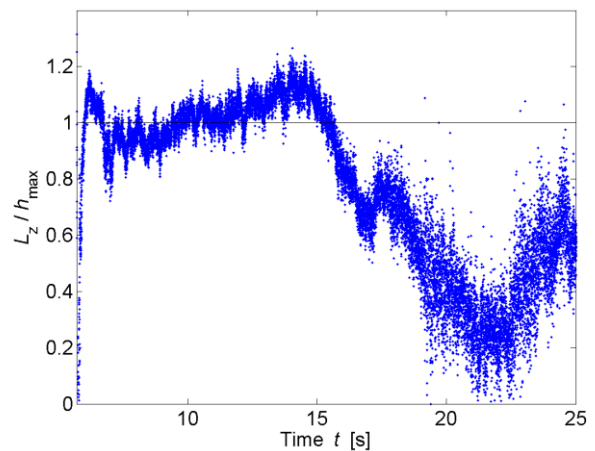
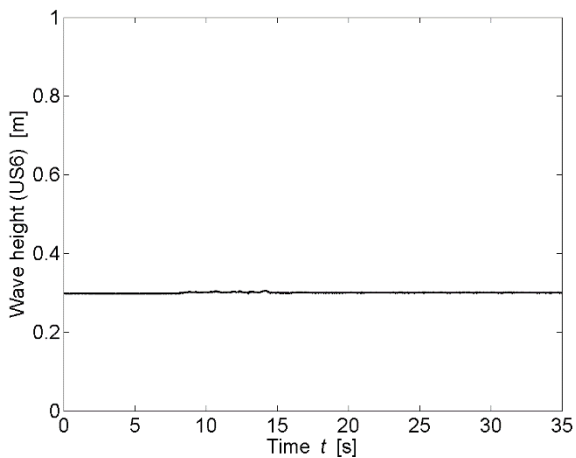
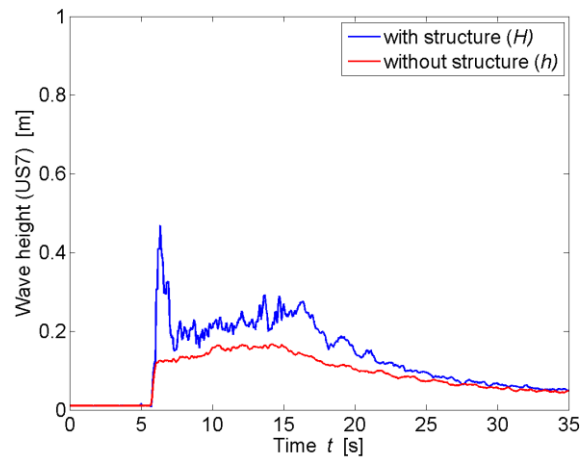
TEST PARAMETERS

Name	B60_0_WW1_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.38	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.680	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.468	[m]

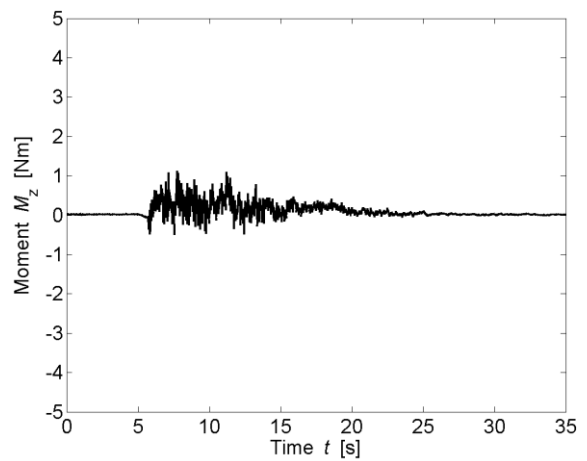
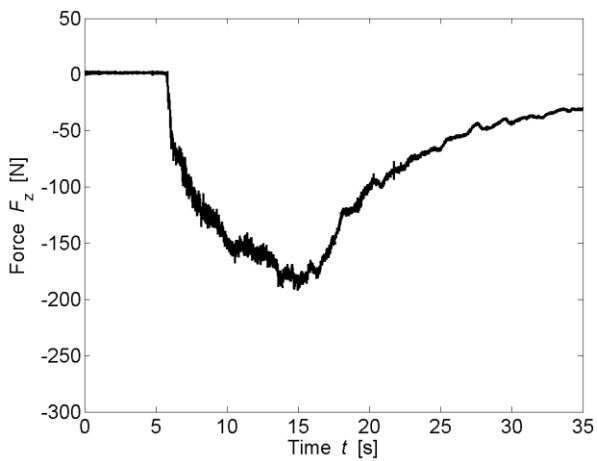
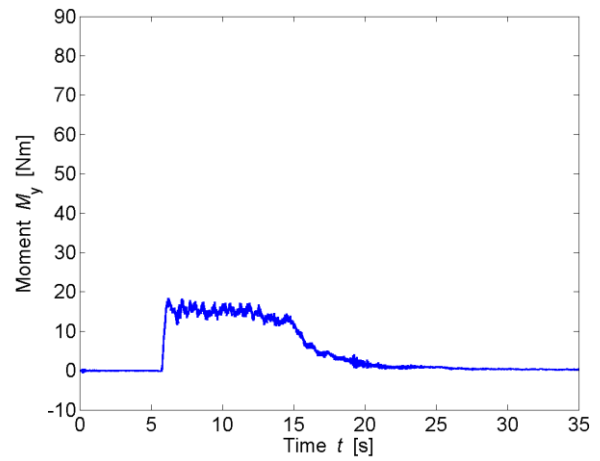
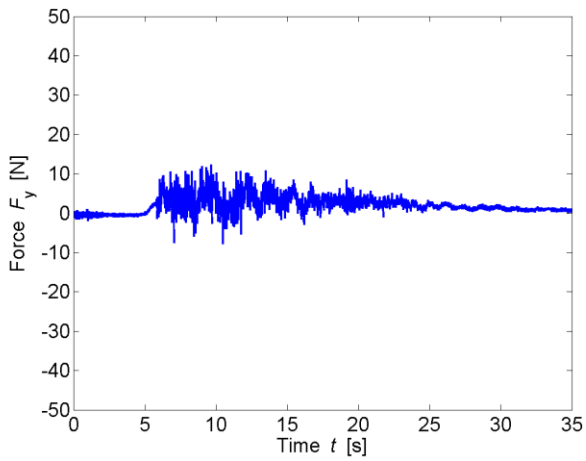
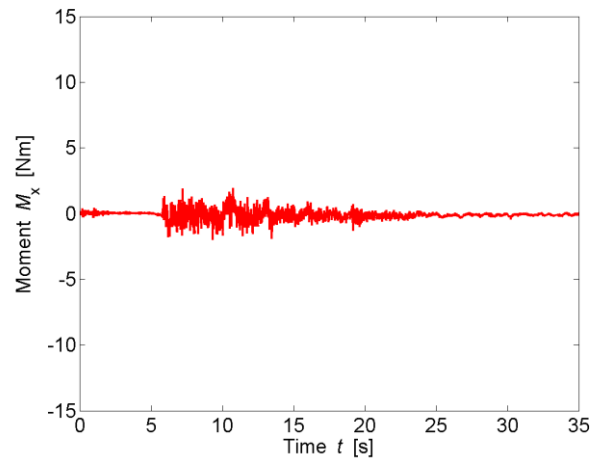
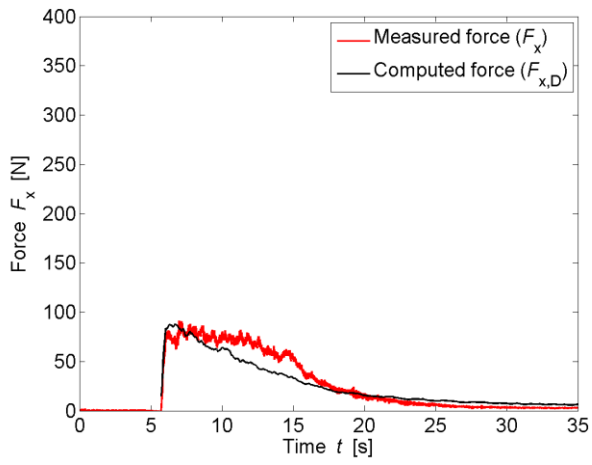


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.843	91.085	[N]
F_y	-7.900	12.338	[N]
F_z	-191.937	28.847	[N]
M_x	-1.973	1.938	[Nm]
M_y	-0.701	18.441	[Nm]
M_z	-0.492	1.120	[Nm]
Predicted Force	$F_{x,D,max}$	87.960	[N]
Initial time	t_0	5.758	[s]
Time to peak	τ_{max}	1.239	[s]
Total impulse	I_{tot}	851.453	[Ns]
Peak Impulse	I_{peak}	81.713	[Ns]
Relative impulse	I^*	0.101	[-]
Wave height at $F_{x,max}$	h_M	0.738	[-]
Resistance coefficient	C_R	0.719	[-]

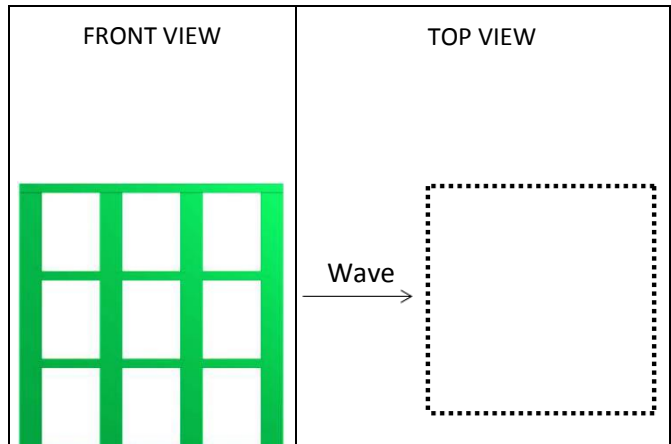


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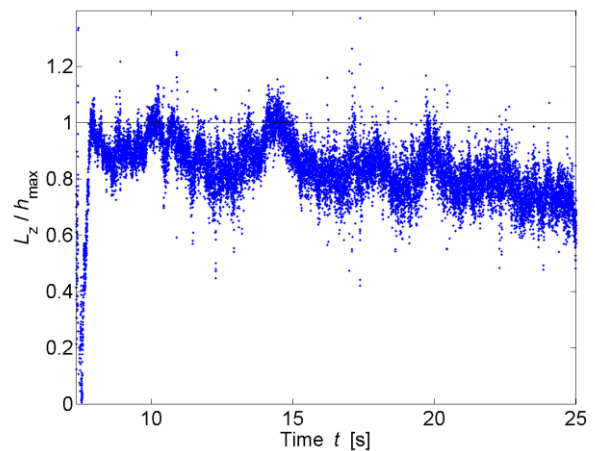
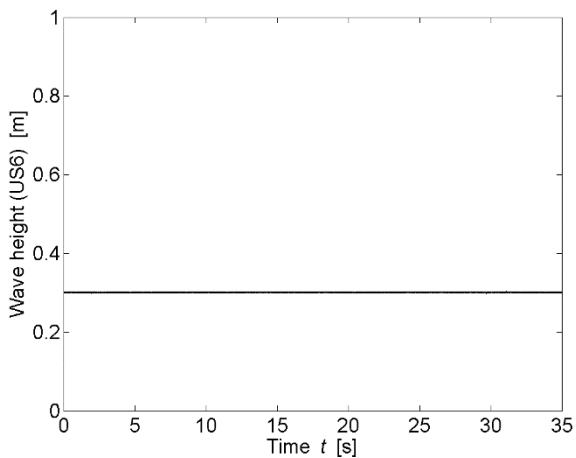
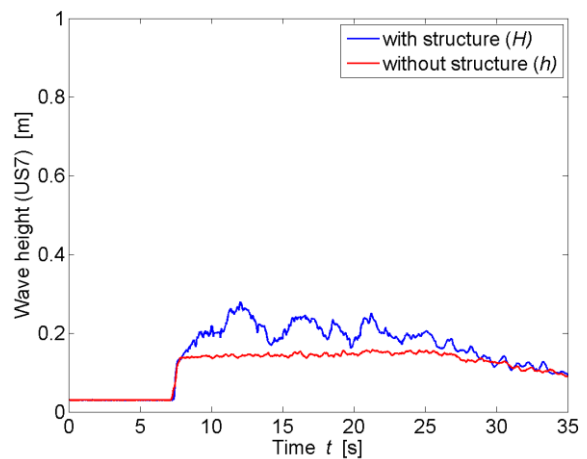
TEST PARAMETERS

Name	B60_0_WW3_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.07	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.961	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.280	[m]

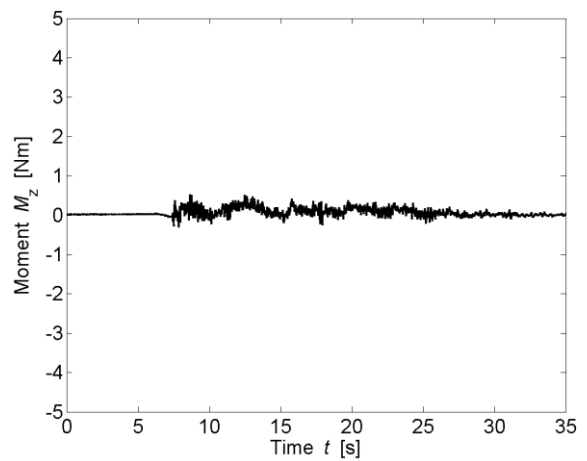
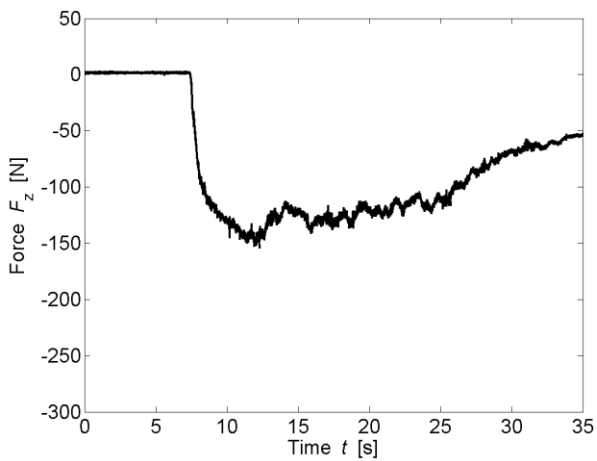
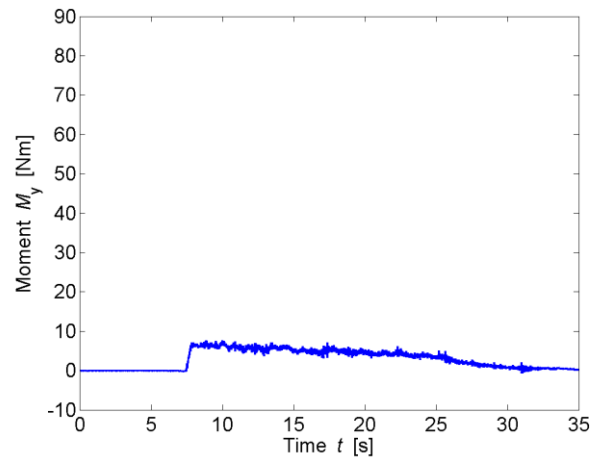
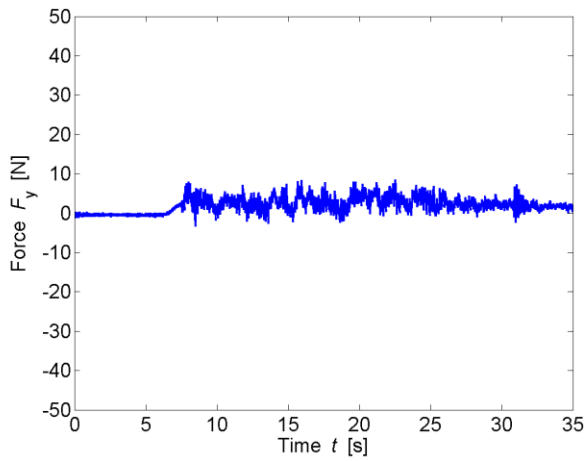
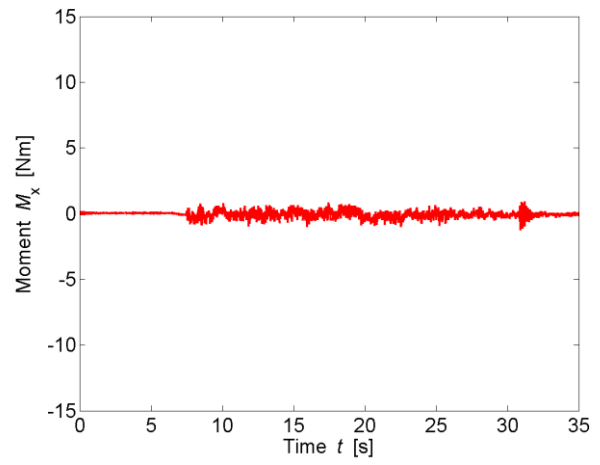
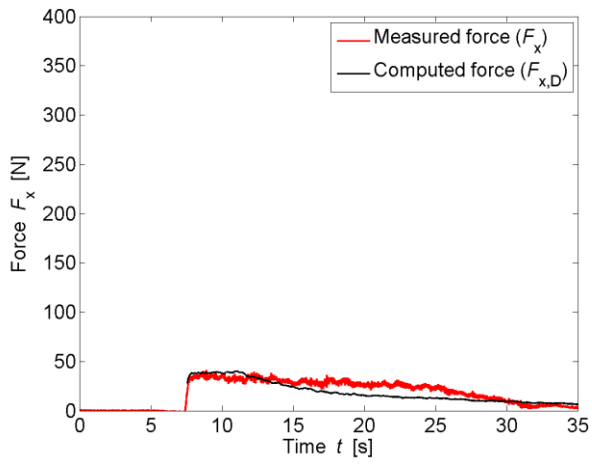


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.157	41.391	[N]
F_y	-3.397	8.471	[N]
F_z	-154.452	1.952	[N]
M_x	-1.241	0.906	[Nm]
M_y	-0.732	7.677	[Nm]
M_z	-0.308	0.522	[Nm]
Predicted Force	$F_{x,D,max}$	40.203	[N]
Initial time	t_0	7.412	[s]
Time to peak	τ_{max}	1.482	[s]
Total impulse	I_{tot}	565.870	[Ns]
Peak Impulse	I_{peak}	46.600	[Ns]
Relative impulse	I^*	0.080	[-]
Wave height at $F_{x,max}$	h_M	0.882	[-]
Resistance coefficient	C_R	0.736	[-]

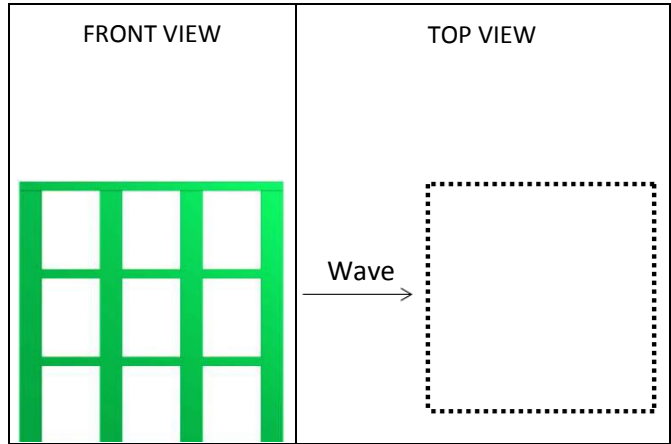


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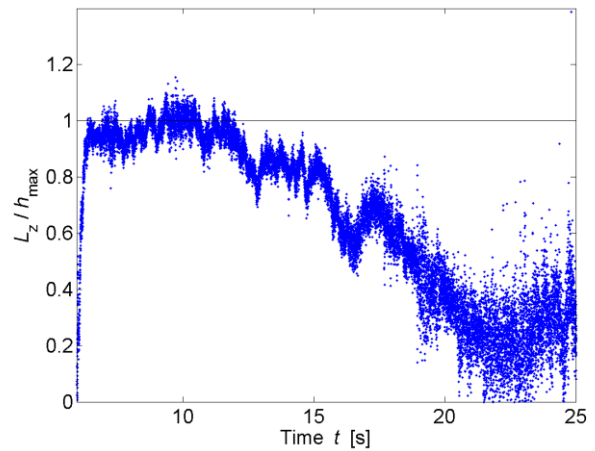
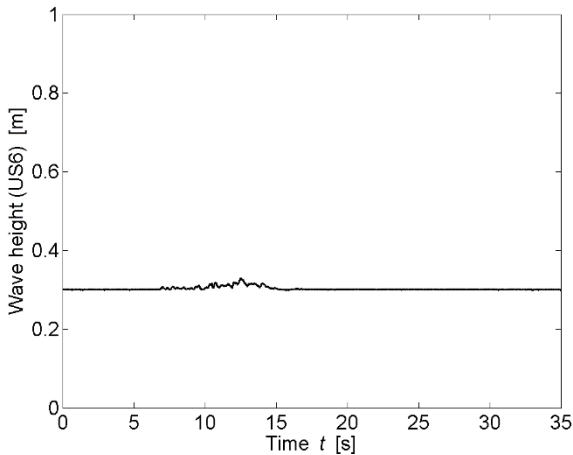
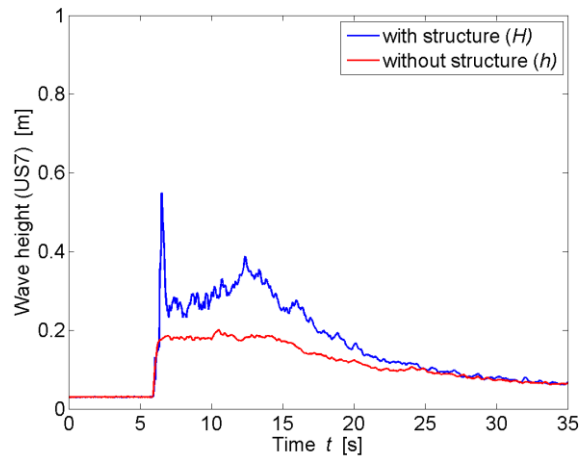
TEST PARAMETERS

Name	B60_0_WW3_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	60.03	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.494	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.549	[m]

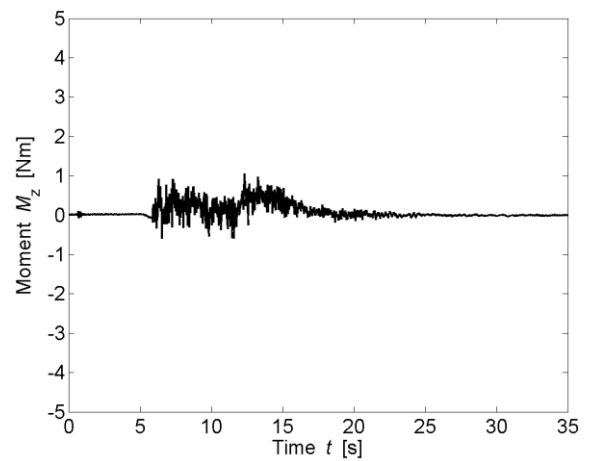
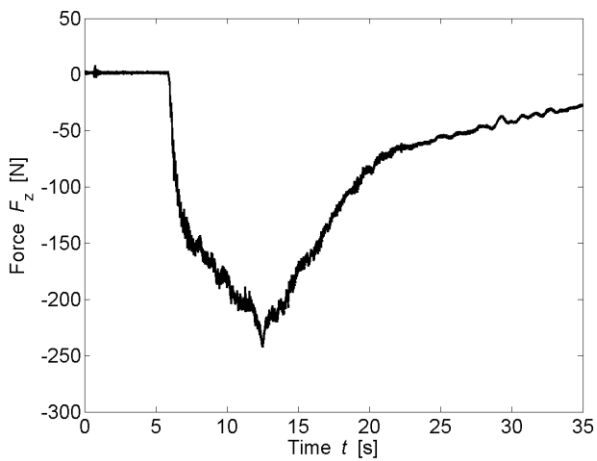
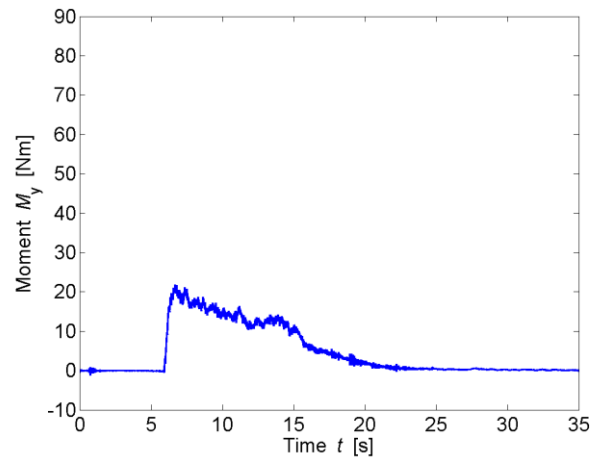
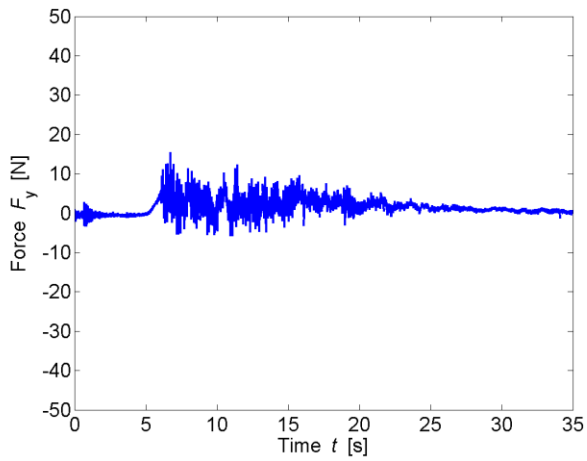
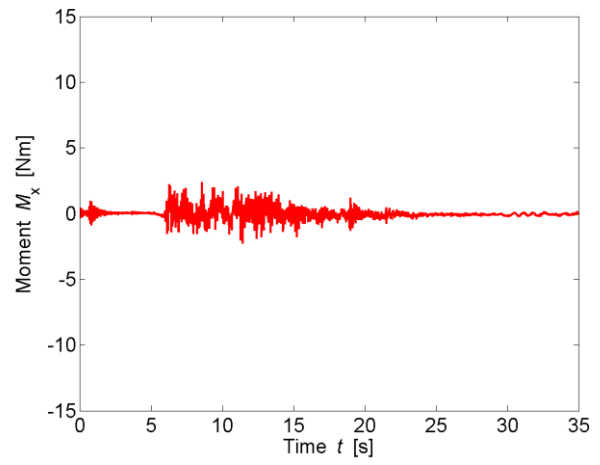
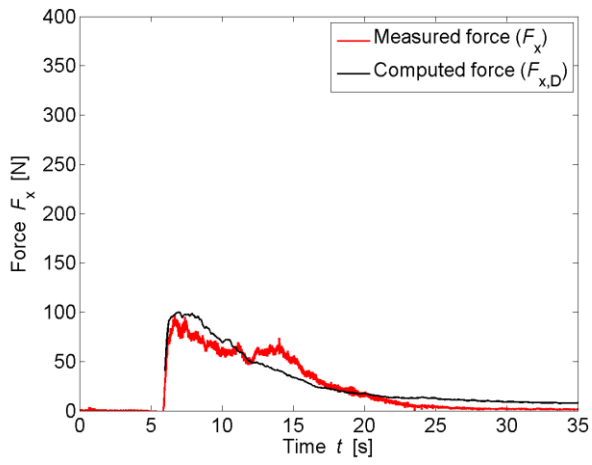


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.198	96.142	[N]
F_y	-5.845	15.446	[N]
F_z	-242.541	0.000	[N]
M_x	-2.273	2.389	[Nm]
M_y	-1.216	21.758	[Nm]
M_z	-0.589	1.060	[Nm]
Predicted Force	$F_{x,D,max}$	99.991	[N]
Initial time	t_0	5.974	[s]
Time to peak	τ_{max}	0.714	[s]
Total impulse	I_{tot}	783.559	[Ns]
Peak Impulse	I_{peak}	49.025	[Ns]
Relative impulse	I^*	0.065	[-]
Wave height at $F_{x,max}$	h_M	0.902	[-]
Resistance coefficient	C_R	0.798	[-]

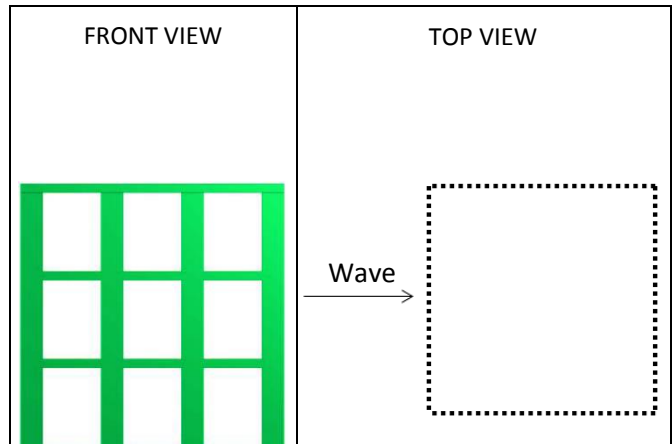


* All parameters are presented and defined at the beginning of the Appendix



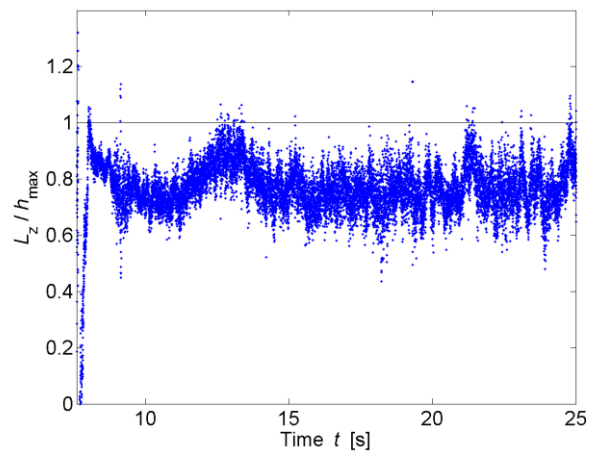
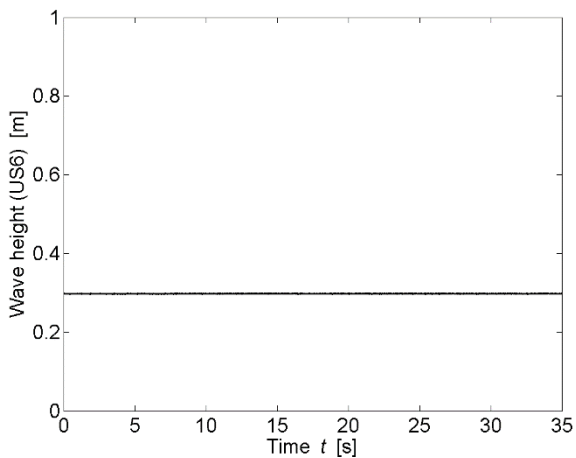
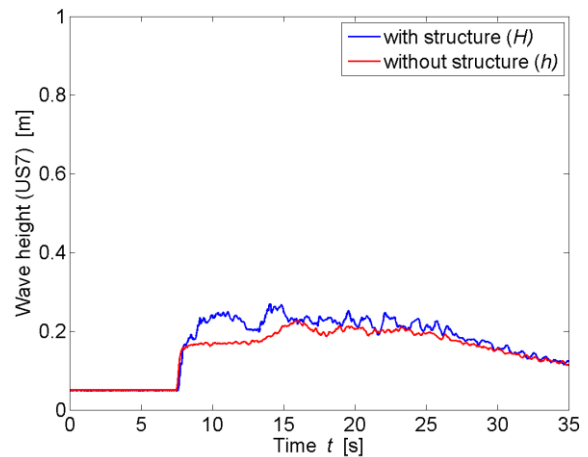
TEST PARAMETERS

Name	B60_0_WW5_1P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.70	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.928	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.270	[m]

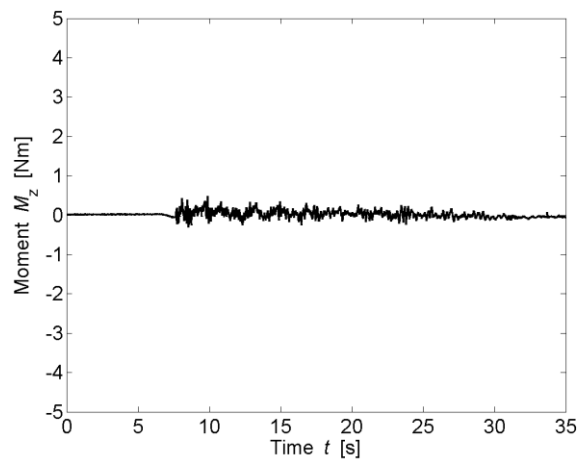
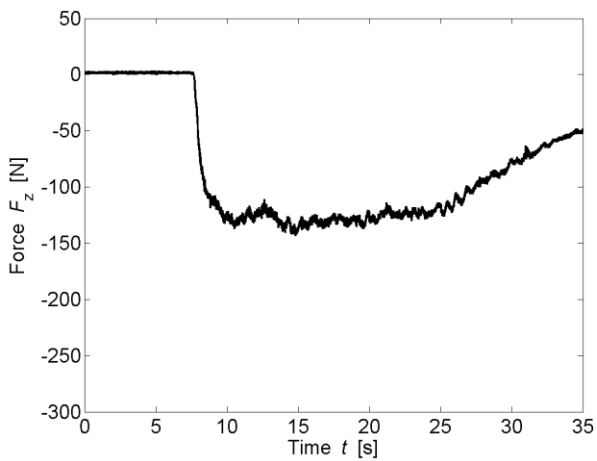
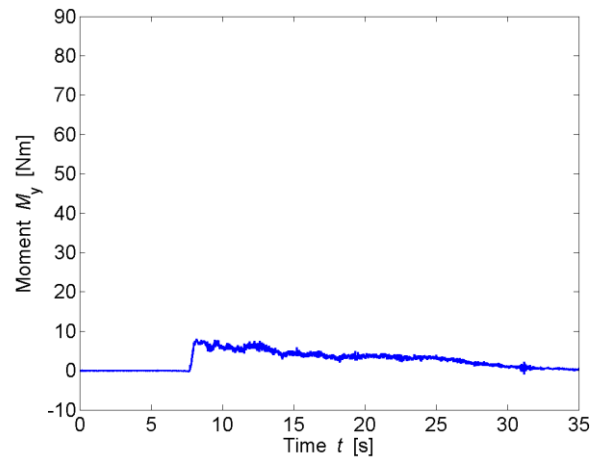
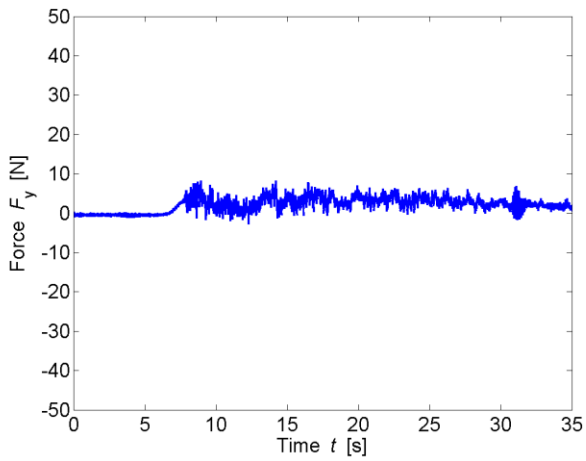
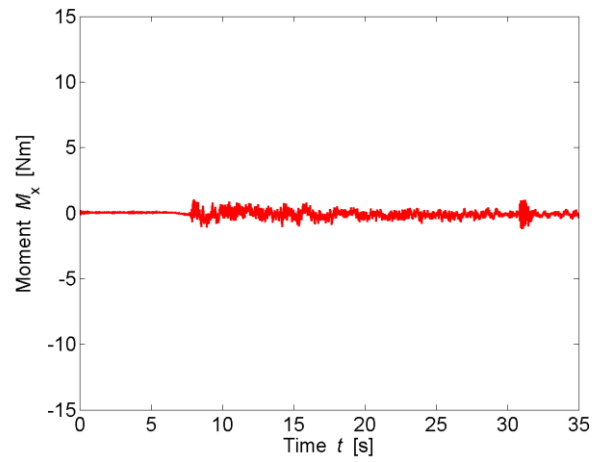
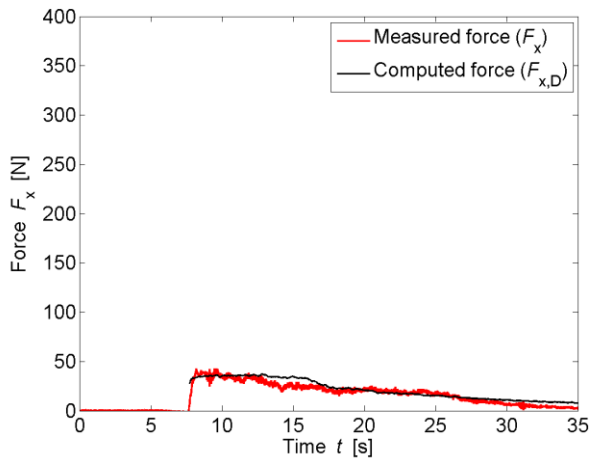


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.794	42.928	[N]
F_y	-2.810	8.276	[N]
F_z	-143.301	1.202	[N]
M_x	-1.204	1.029	[Nm]
M_y	-0.905	8.069	[Nm]
M_z	-0.304	0.479	[Nm]
Predicted Force	$F_{x,D,max}$	37.213	[N]
Initial time	t_0	7.652	[s]
Time to peak	τ_{max}	0.537	[s]
Total impulse	I_{tot}	477.667	[Ns]
Peak Impulse	I_{peak}	12.572	[Ns]
Relative impulse	I^*	0.026	[-]
Wave height at $F_{x,max}$	h_M	0.710	[-]
Resistance coefficient	C_R	0.771	[-]

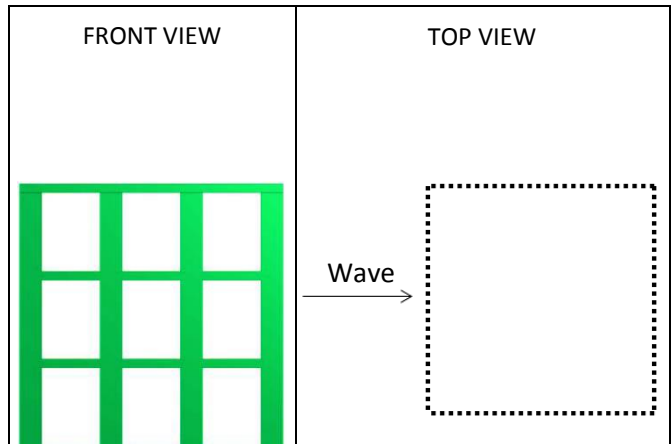


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TEST PARAMETERS

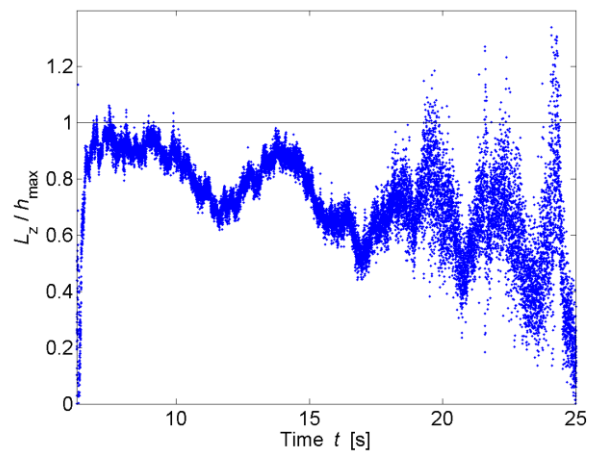
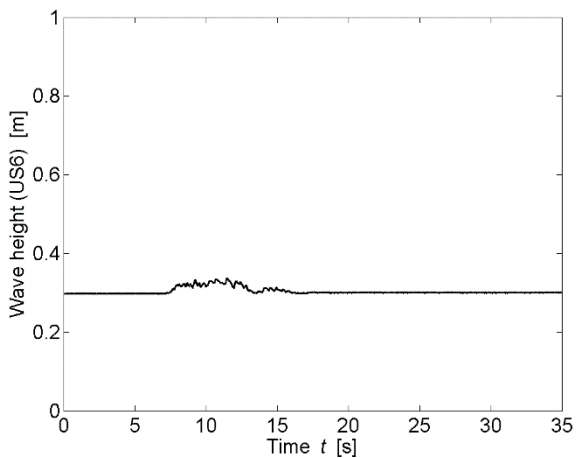
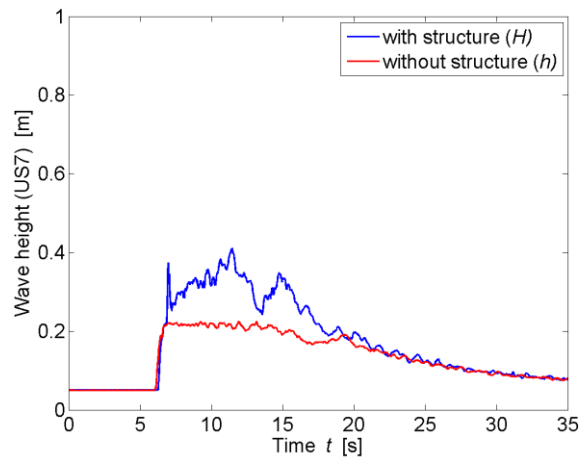
Name	B60_0_WW5_2P_1		
Repetitions	1		
Configuration	All Porous (0)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	60.58	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.441	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.411	[m]



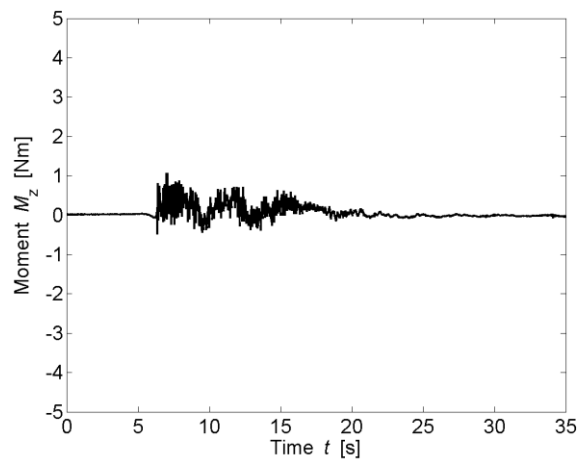
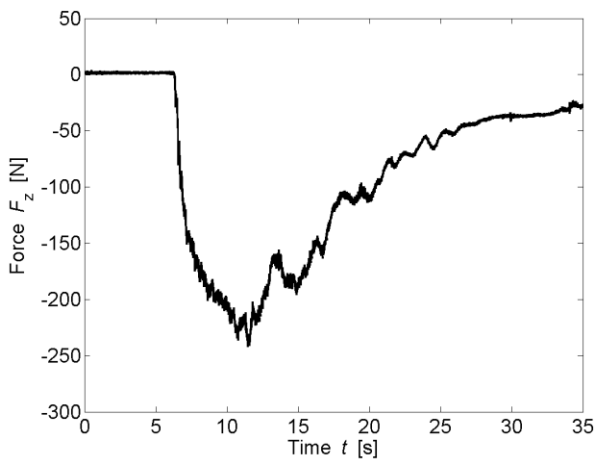
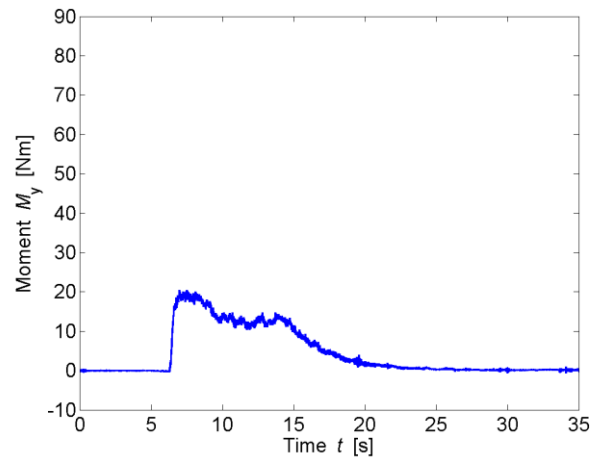
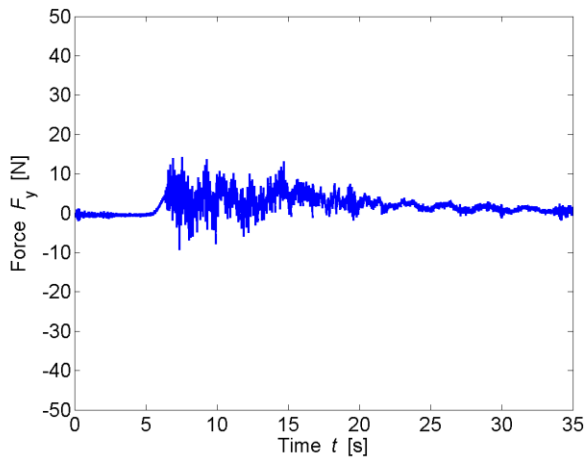
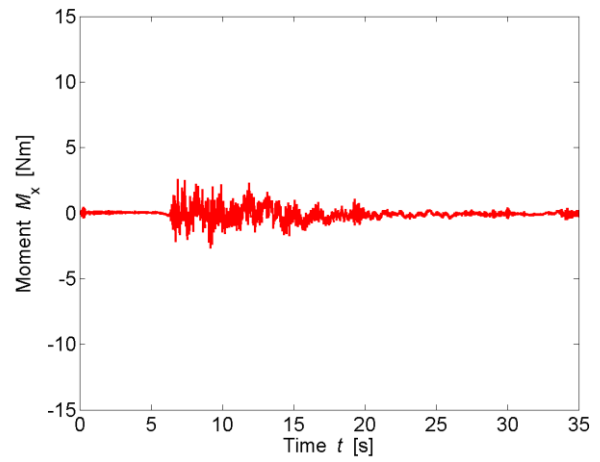
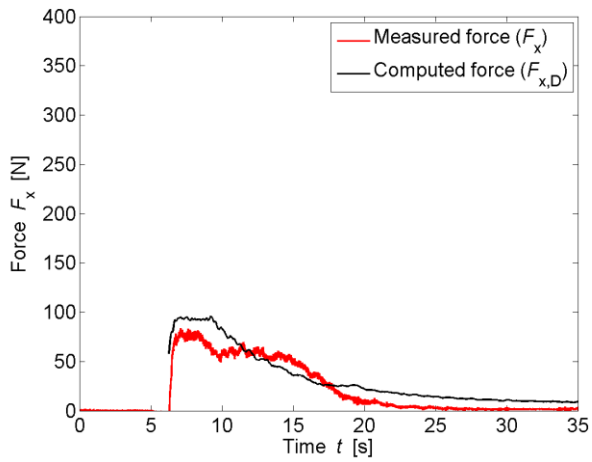
IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.052	83.537	[N]
F_y	-9.320	14.247	[N]
F_z	-241.979	0.734	[N]
M_x	-2.677	2.579	[Nm]
M_y	-0.732	20.436	[Nm]
M_z	-0.487	1.076	[Nm]

Predicted Force	$F_{x,D,max}$	95.725	[N]
Initial time	t_0	6.309	[s]
Time to peak	τ_{max}	0.778	[s]
Total impulse	I_{tot}	709.347	[Ns]
Peak Impulse	I_{peak}	46.233	[Ns]
Relative impulse	I^*	0.067	[-]
Wave height at $F_{x,max}$	h_M	0.985	[-]
Resistance coefficient	C_R	0.684	[-]

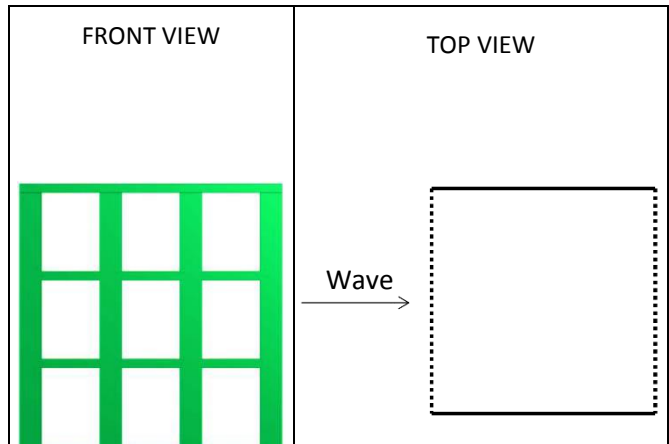


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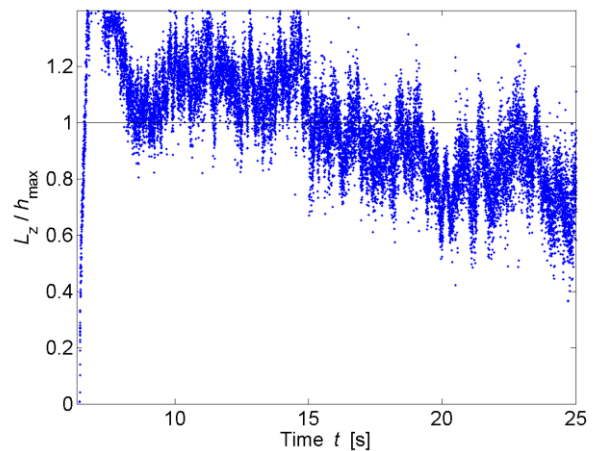
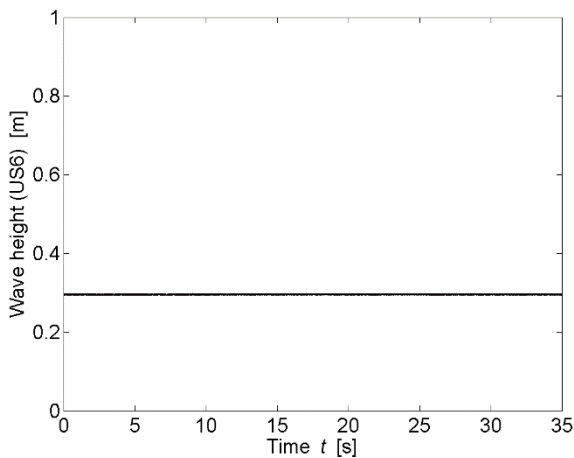
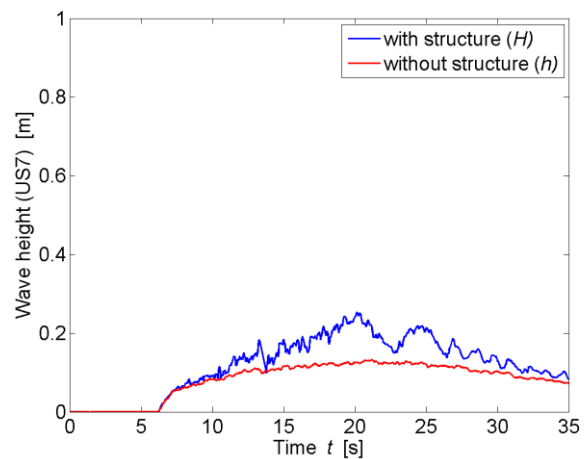
TEST PARAMETERS

Name	B60_F_WD1_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	61.15	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.361	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.253	[m]

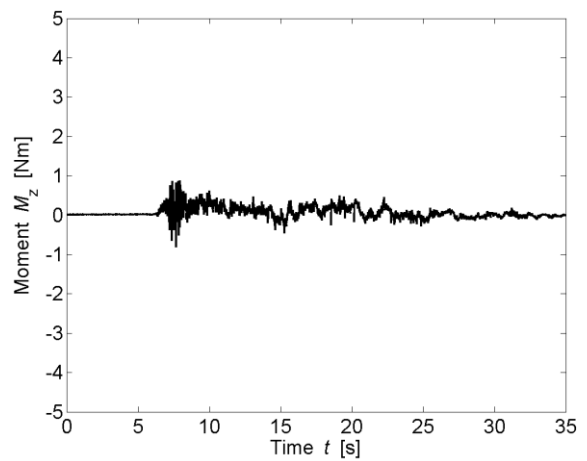
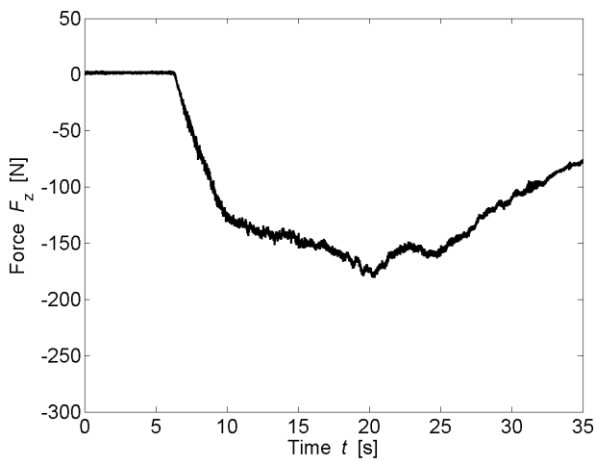
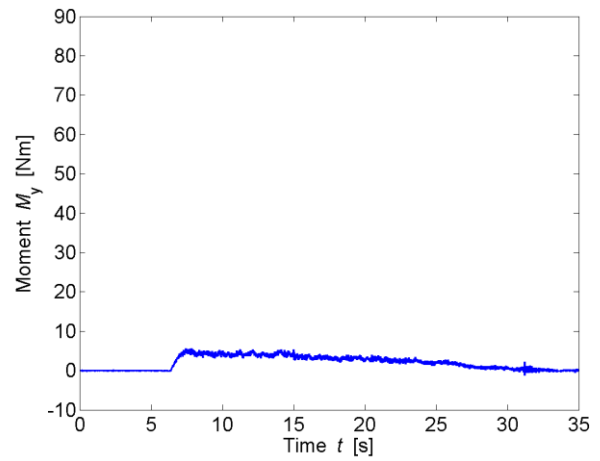
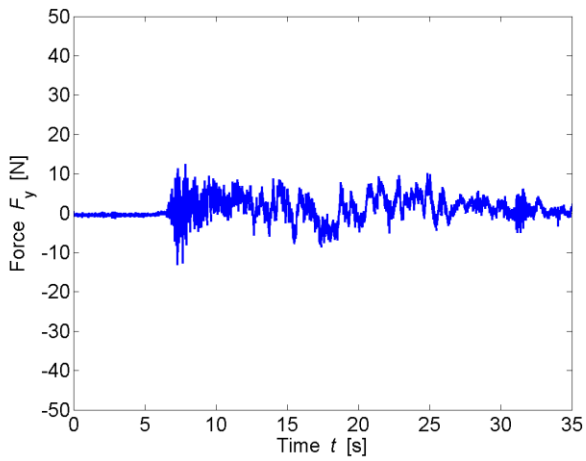
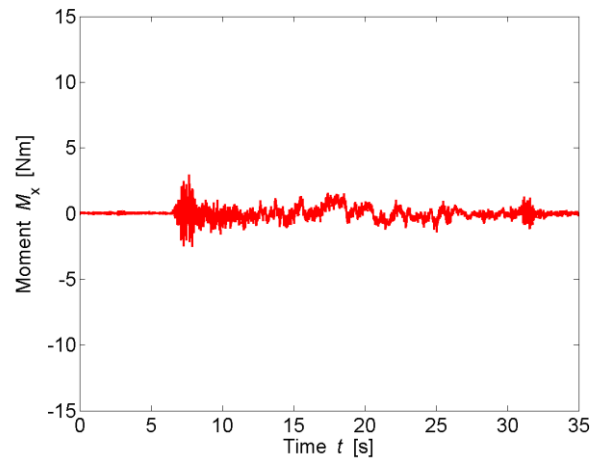
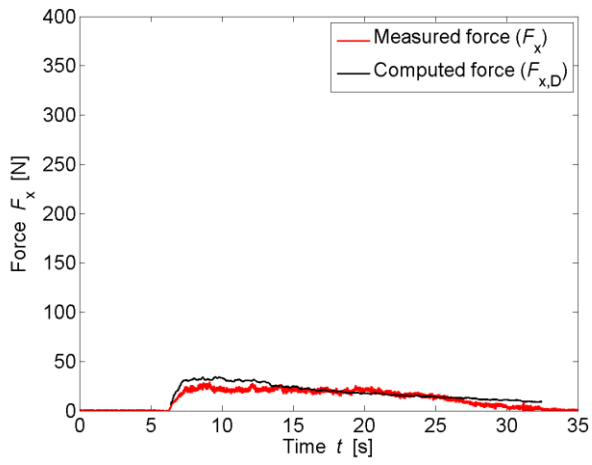


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.375	29.028	[N]
F_y	-13.088	12.460	[N]
F_z	-180.785	0.546	[N]
M_x	-2.502	2.962	[Nm]
M_y	-1.261	5.594	[Nm]
M_z	-0.815	0.874	[Nm]
Predicted Force	$F_{x,D,max}$	34.308	[N]
Initial time	t_0	6.359	[s]
Time to peak	τ_{max}	2.760	[s]
Total impulse	I_{tot}	388.632	[Ns]
Peak Impulse	I_{peak}	53.146	[Ns]
Relative impulse	I^*	0.134	[-]
Wave height at $F_{x,max}$	h_M	0.527	[-]
Resistance coefficient	C_R	0.632	[-]

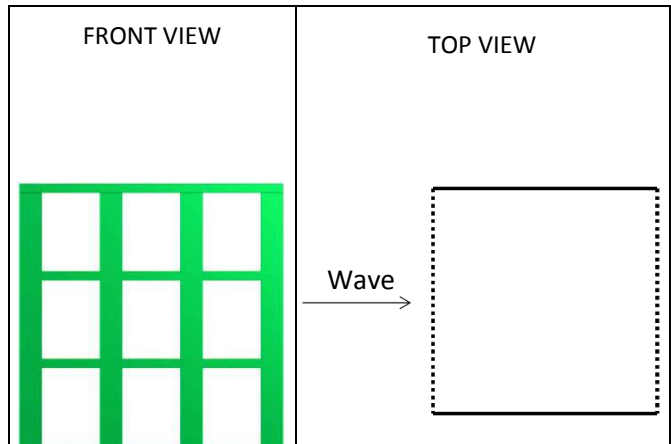


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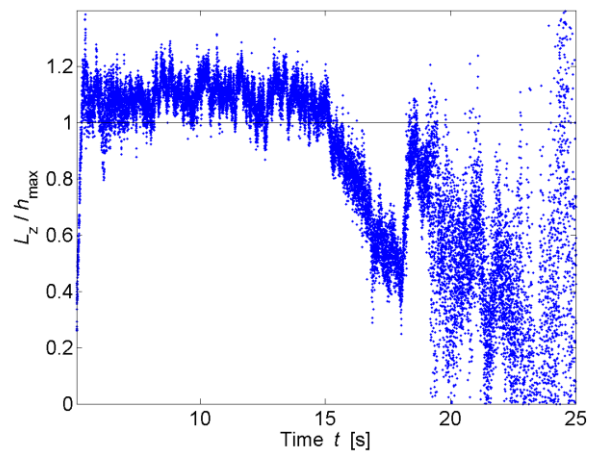
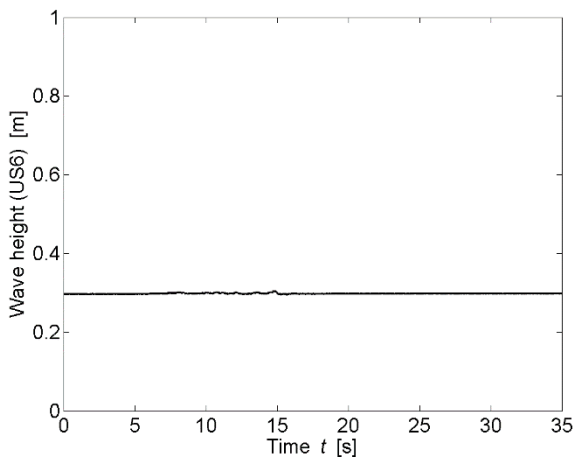
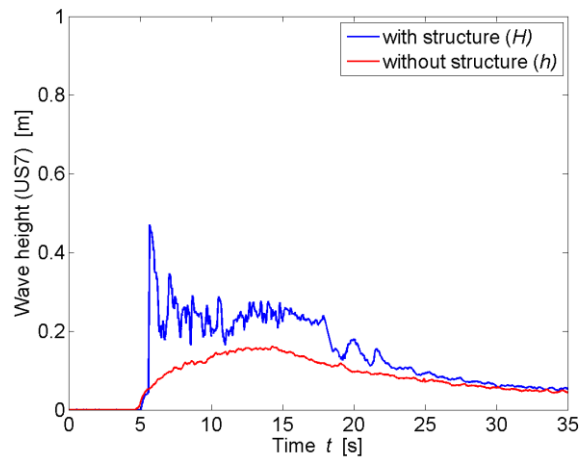
TEST PARAMETERS

Name	B60_F_WD2_ 2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.17	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.062	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.471	[m]

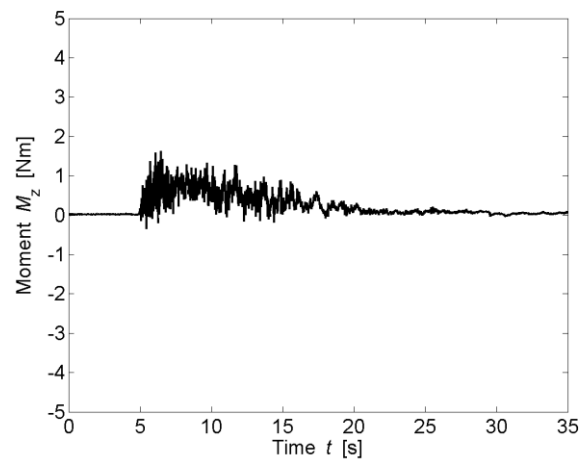
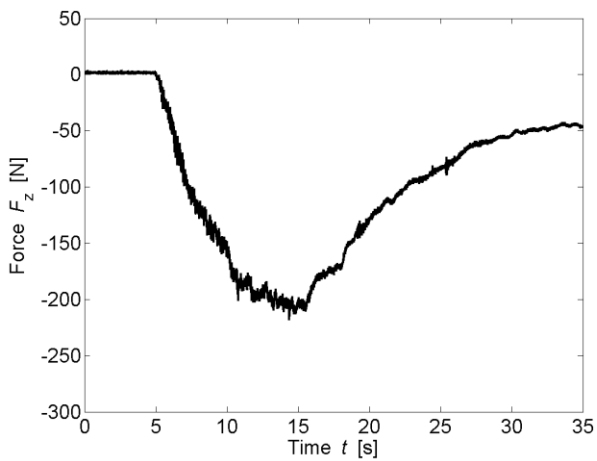
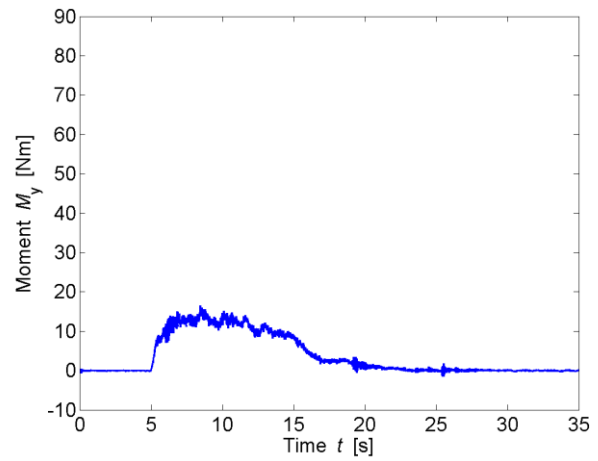
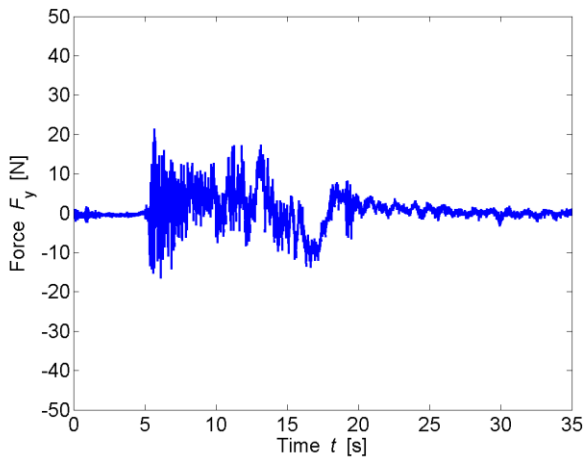
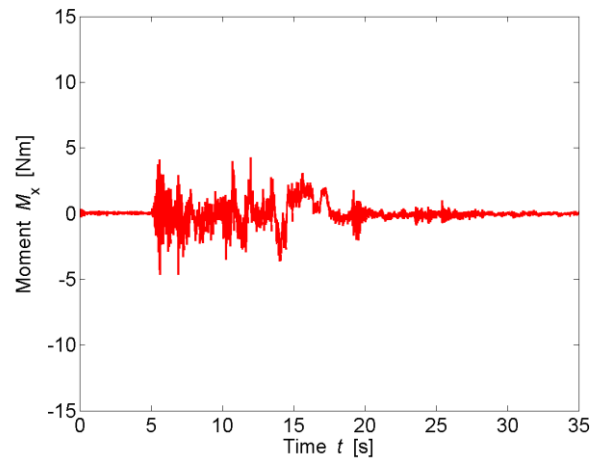
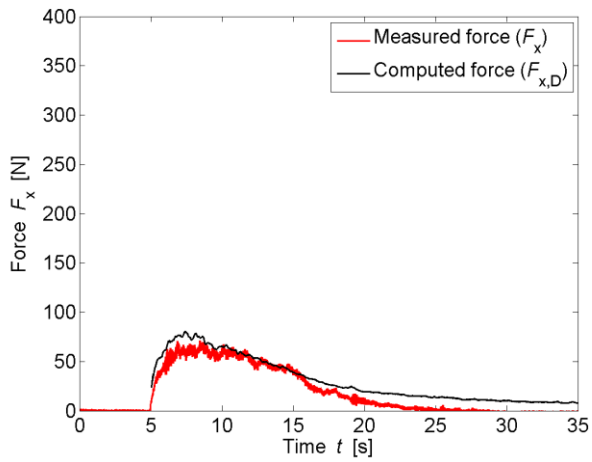


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.593	70.932	[N]
F_y	-18.693	24.207	[N]
F_z	-218.176	0.000	[N]
M_x	-4.634	4.270	[Nm]
M_y	-1.444	16.489	[Nm]
M_z	-0.344	1.628	[Nm]
Predicted Force	$F_{x,D,max}$	80.338	[N]
Initial time	t_0	5.127	[s]
Time to peak	τ_{max}	3.343	[s]
Total impulse	I_{tot}	638.838	[Ns]
Peak Impulse	I_{peak}	173.718	[Ns]
Relative impulse	I^*	0.275	[-]
Wave height at $F_{x,max}$	h_M	0.729	[-]
Resistance coefficient	C_R	0.665	[-]

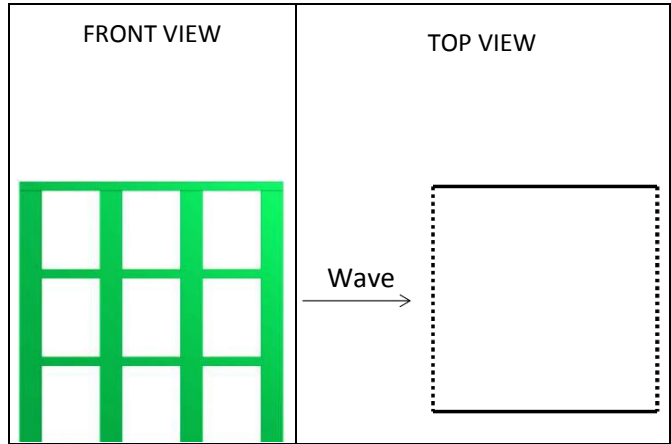


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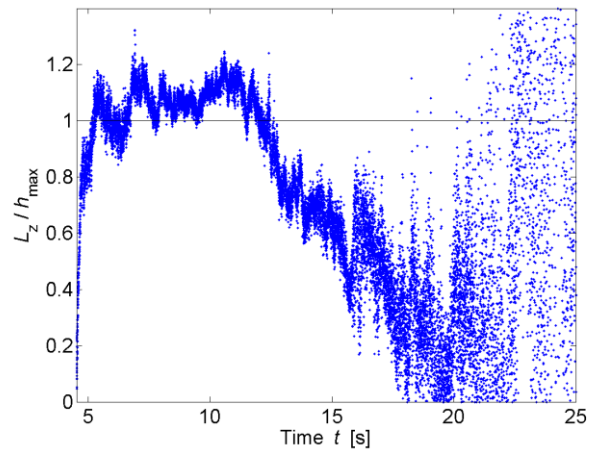
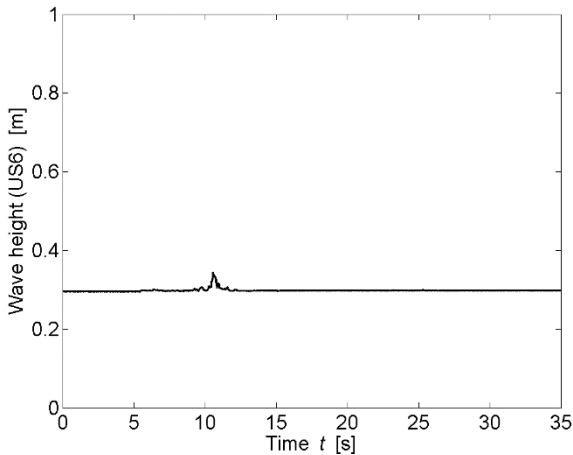
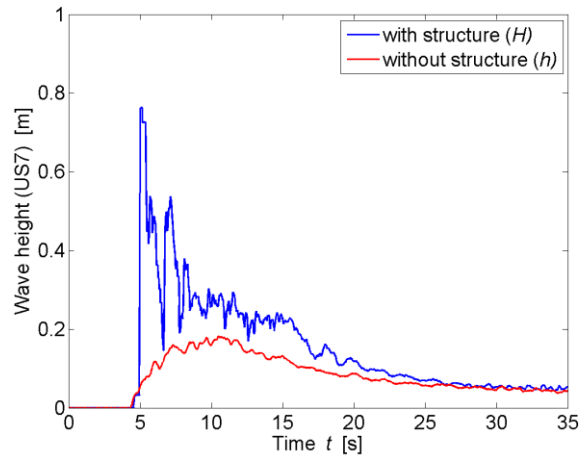
TEST PARAMETERS

Name	B60_F_WD3_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.87	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.567	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.763	[m]

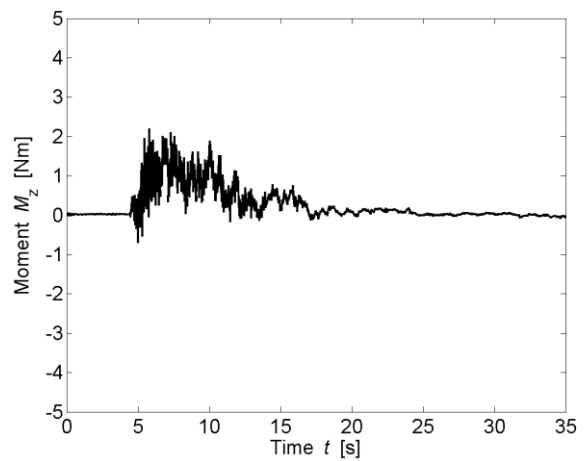
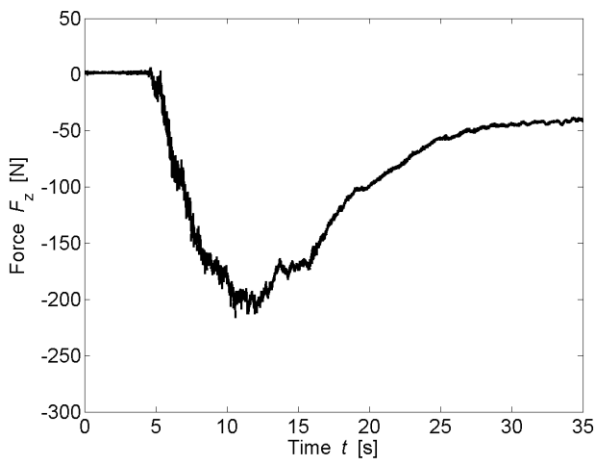
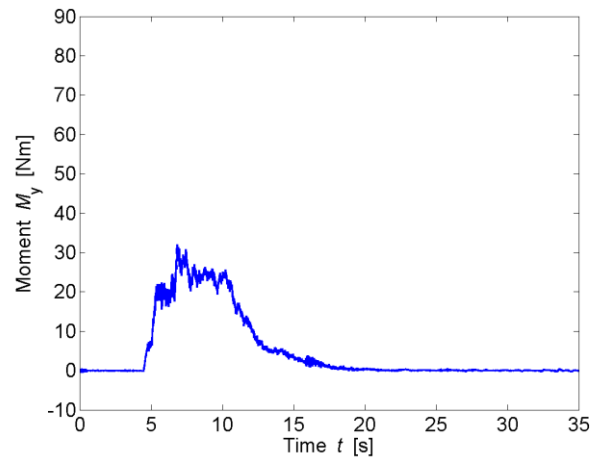
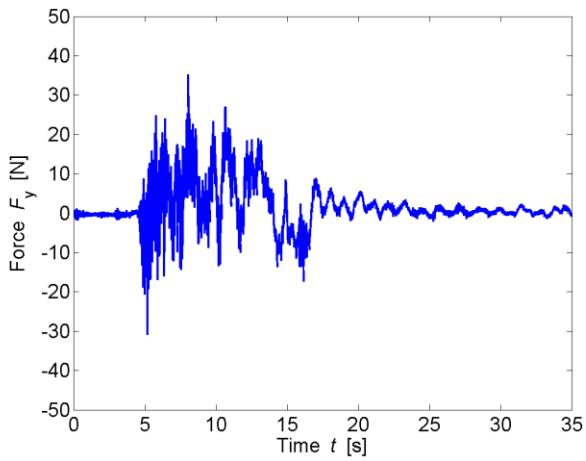
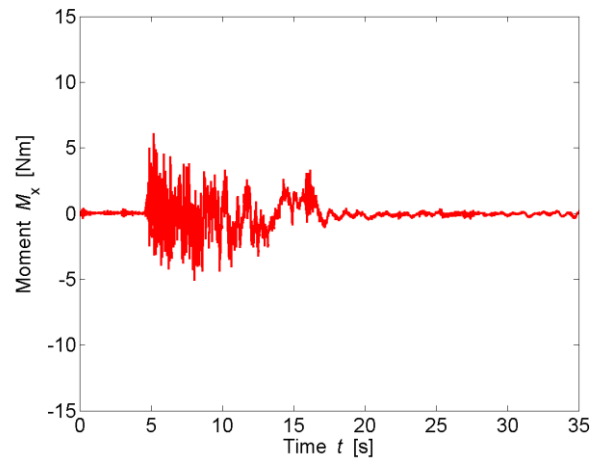
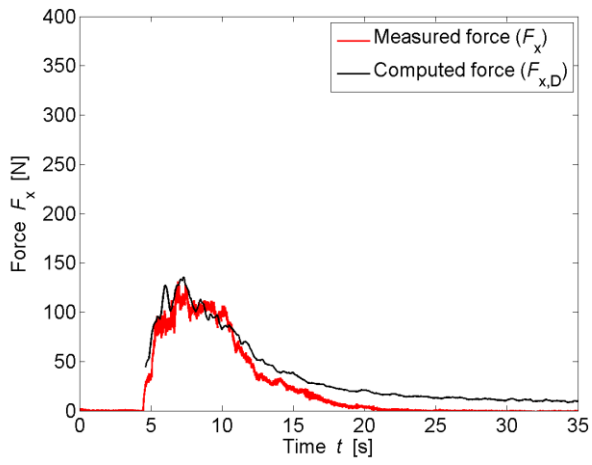


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.303	130.836	[N]
F_y	-30.831	35.268	[N]
F_z	-216.208	6.450	[N]
M_x	-5.095	6.095	[Nm]
M_y	-1.007	32.030	[Nm]
M_z	-0.702	2.197	[Nm]
Predicted Force	$F_{x,D,max}$	135.639	[N]
Initial time	t_0	4.583	[s]
Time to peak	τ_{max}	2.336	[s]
Total impulse	I_{tot}	794.904	[Ns]
Peak Impulse	I_{peak}	177.789	[Ns]
Relative impulse	I^*	0.225	[-]
Wave height at $F_{x,max}$	h_M	0.767	[-]
Resistance coefficient	C_R	0.698	[-]

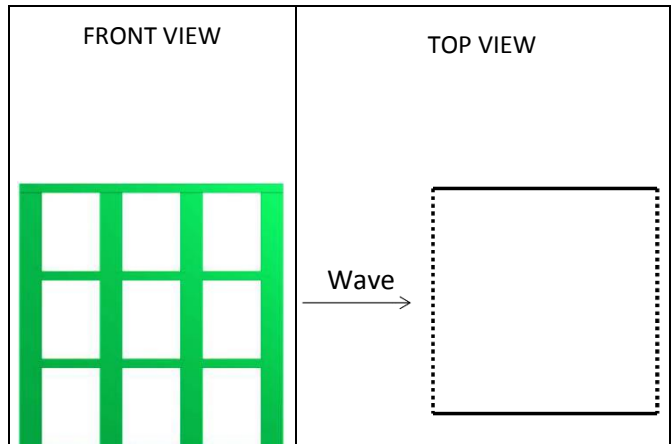


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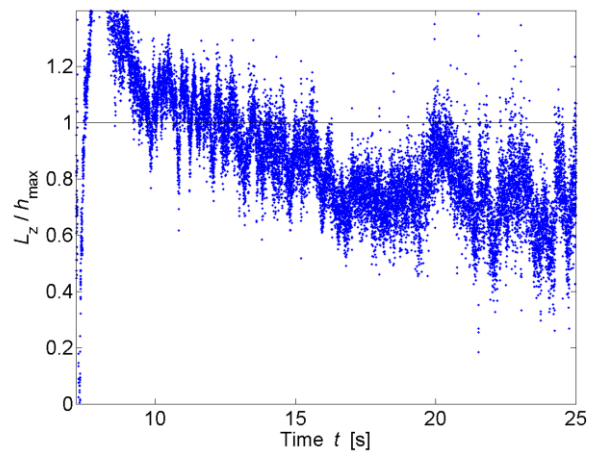
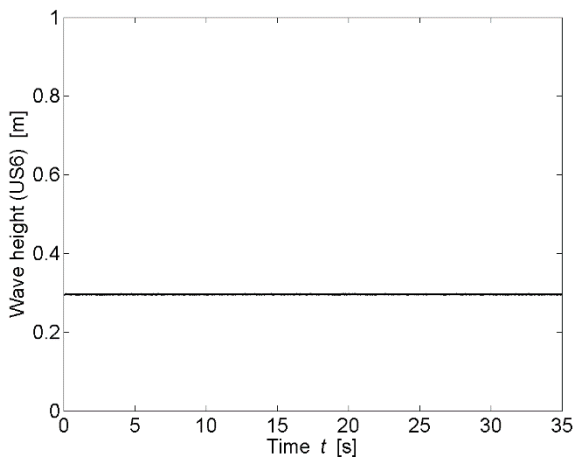
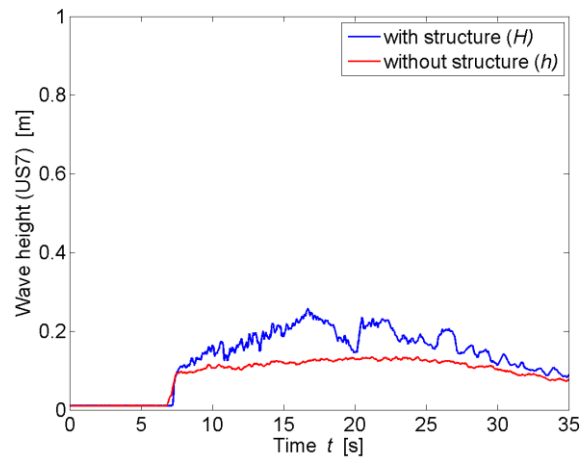
TEST PARAMETERS

Name	B60_F_WW1_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	61.22	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.069	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.258	[m]

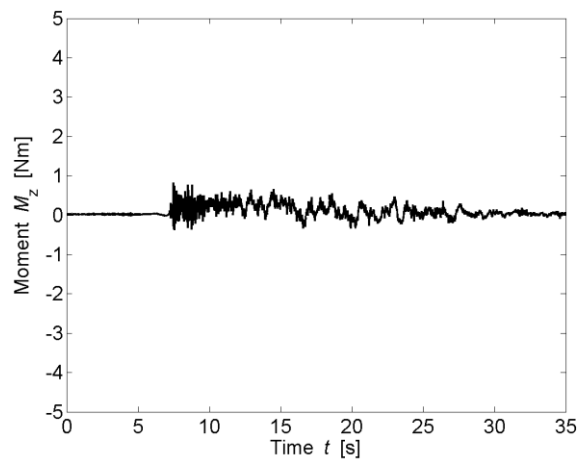
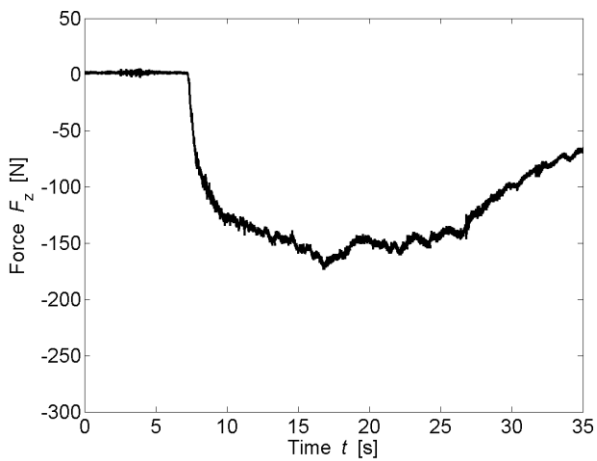
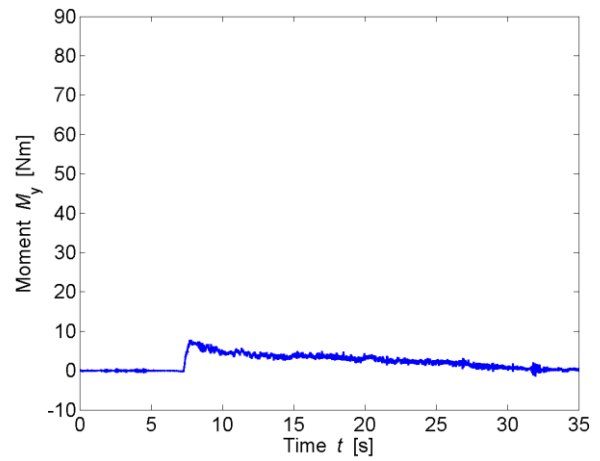
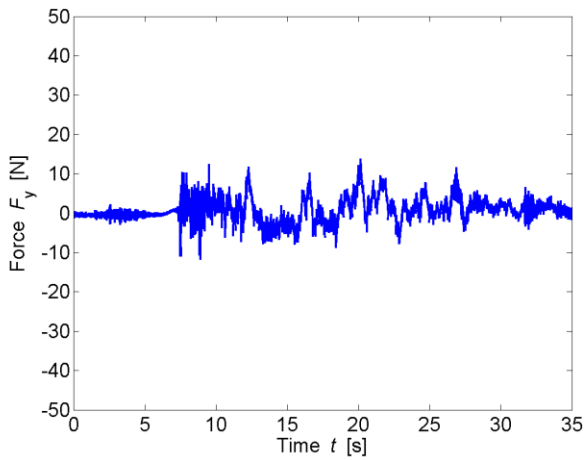
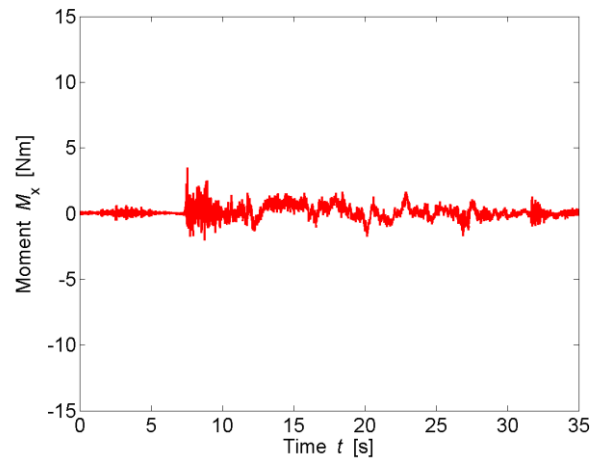
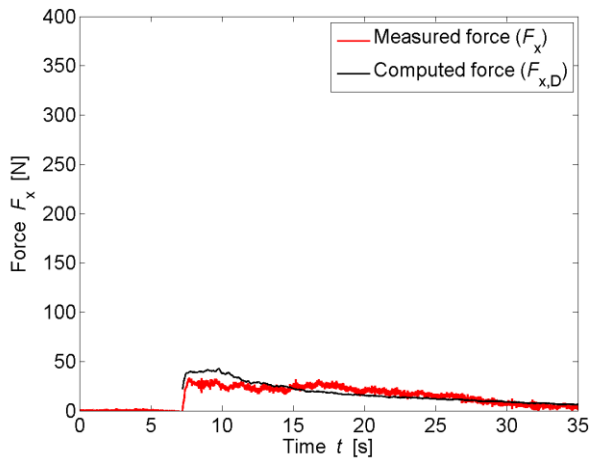


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.891	33.553	[N]
F_y	-11.816	13.782	[N]
F_z	-173.382	1.202	[N]
M_x	-2.041	3.497	[Nm]
M_y	-1.457	7.784	[Nm]
M_z	-0.371	0.830	[Nm]
Predicted Force	$F_{x,D,max}$	42.641	[N]
Initial time	t_0	7.248	[s]
Time to peak	τ_{max}	0.475	[s]
Total impulse	I_{tot}	436.389	[Ns]
Peak Impulse	I_{peak}	10.279	[Ns]
Relative impulse	I^*	0.023	[-]
Wave height at $F_{x,max}$	h_M	0.706	[-]
Resistance coefficient	C_R	0.595	[-]

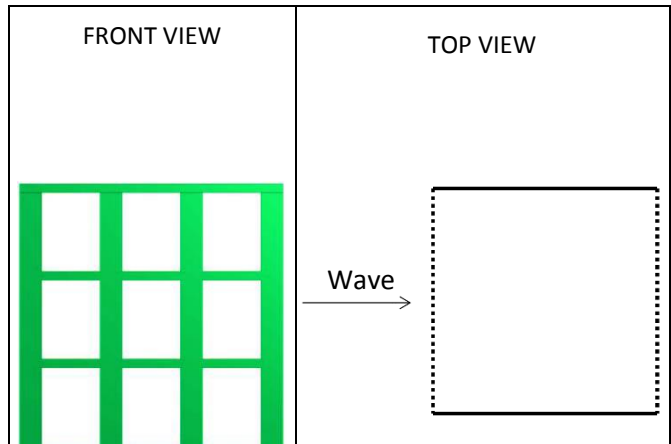


* All parameters are presented and defined at the beginning of the Appendix



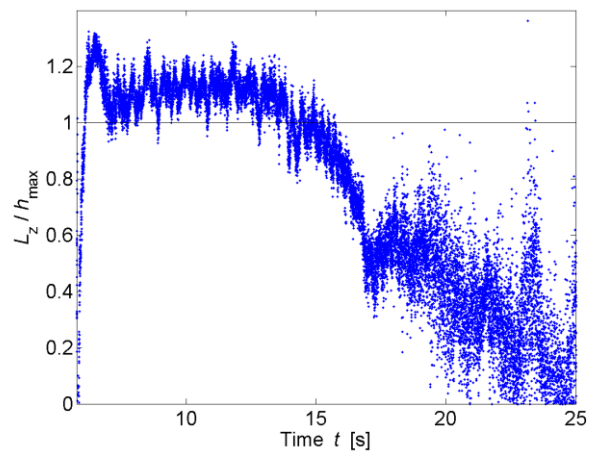
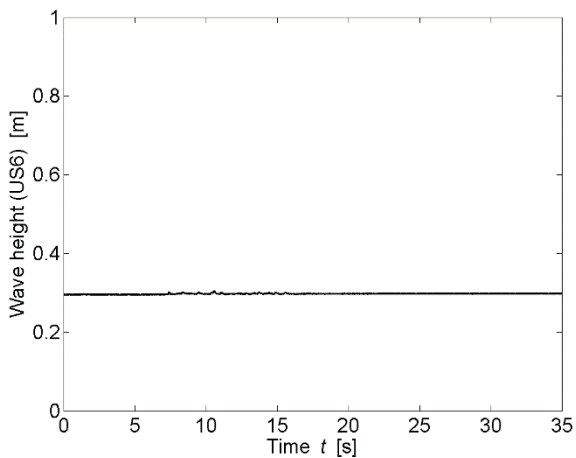
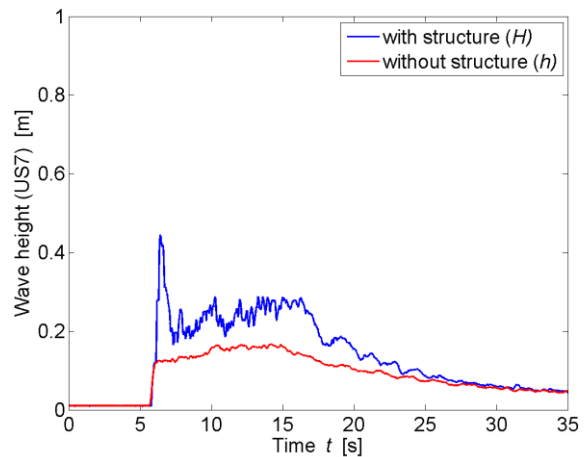
TEST PARAMETERS

Name	B60_F_WW1_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.38	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.663	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.445	[m]

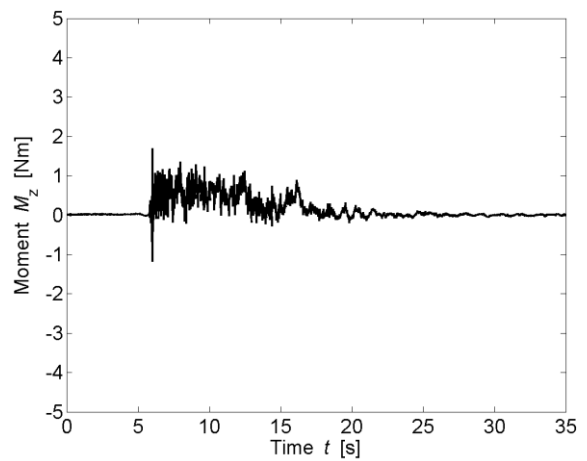
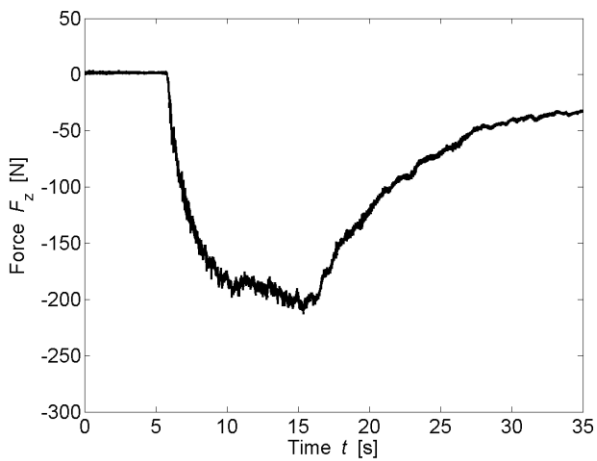
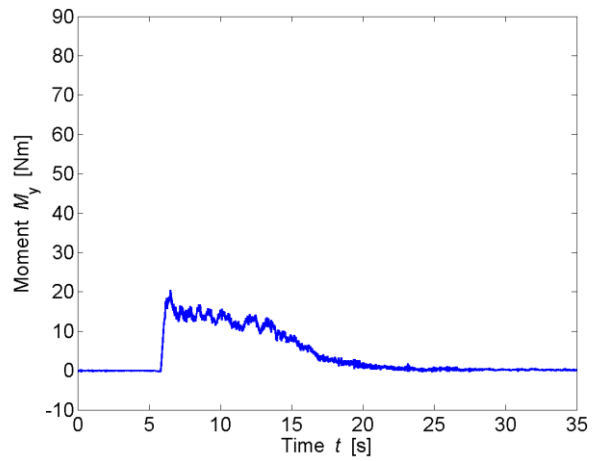
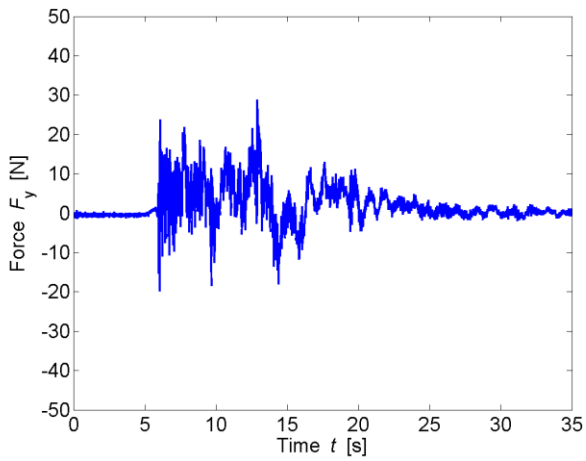
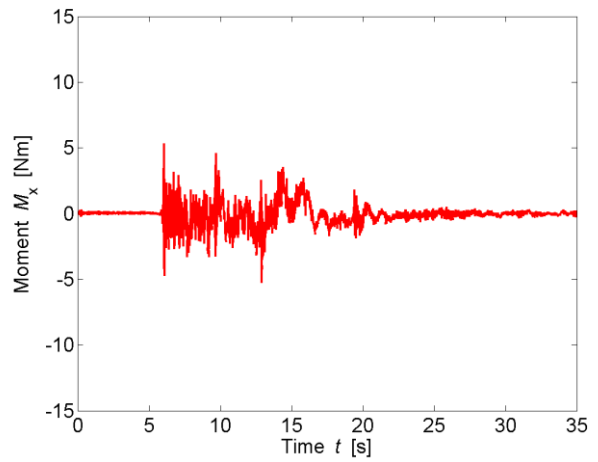
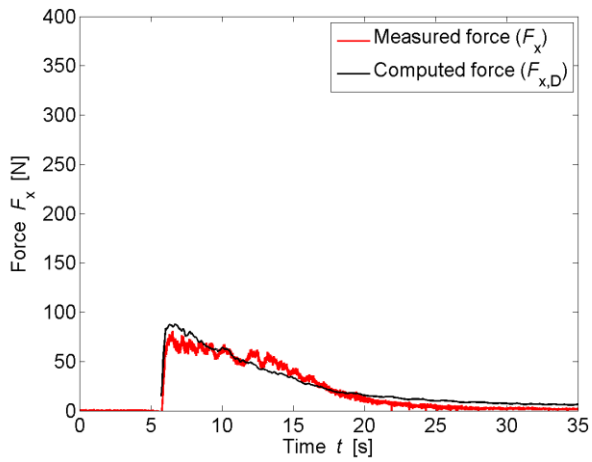


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.682	80.997	[N]
F_y	-19.843	28.857	[N]
F_z	-212.741	0.000	[N]
M_x	-5.264	5.326	[Nm]
M_y	-0.999	20.384	[Nm]
M_z	-1.180	1.703	[Nm]
Predicted Force	$F_{x,D,max}$	87.960	[N]
Initial time	t_0	5.817	[s]
Time to peak	τ_{max}	0.706	[s]
Total impulse	I_{tot}	689.025	[Ns]
Peak Impulse	I_{peak}	40.911	[Ns]
Relative impulse	I^*	0.062	[-]
Wave height at $F_{x,max}$	h_M	0.731	[-]
Resistance coefficient	C_R	0.660	[-]

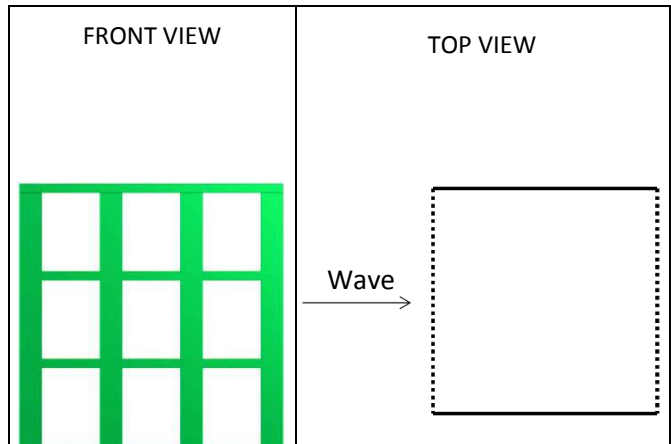


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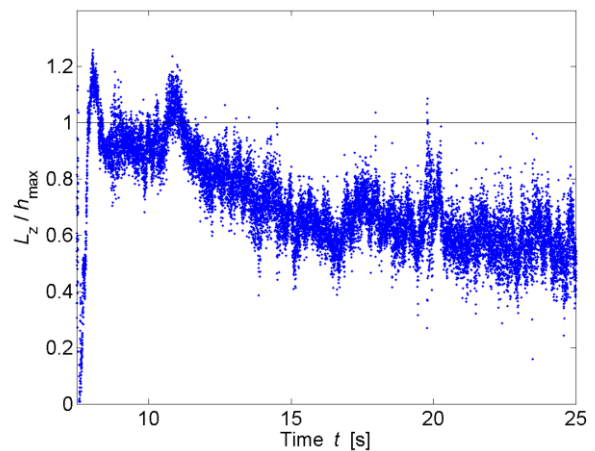
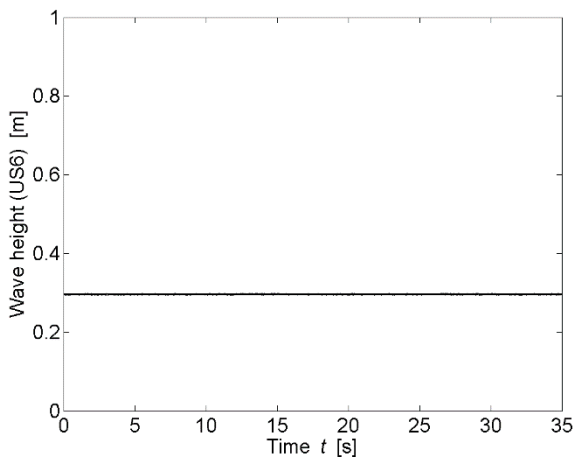
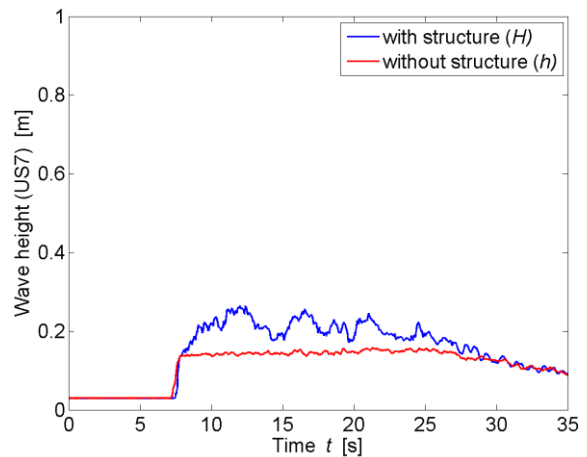
TEST PARAMETERS

Name	B60_F_WW3_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.07	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.954	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.265	[m]

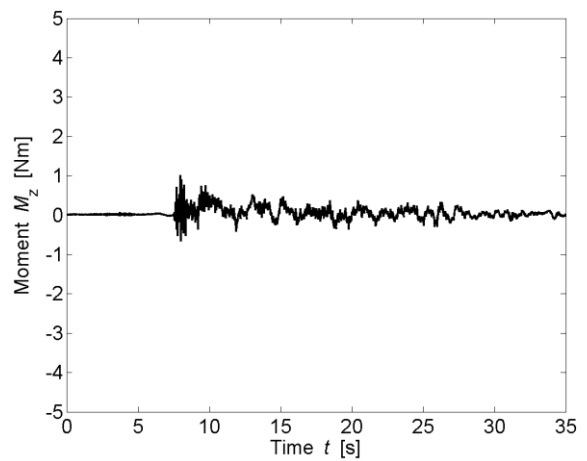
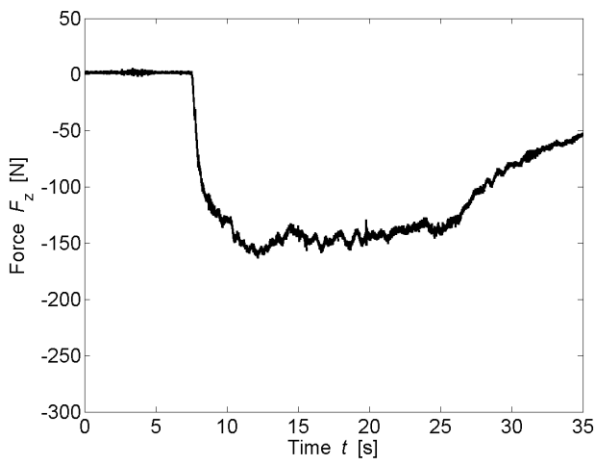
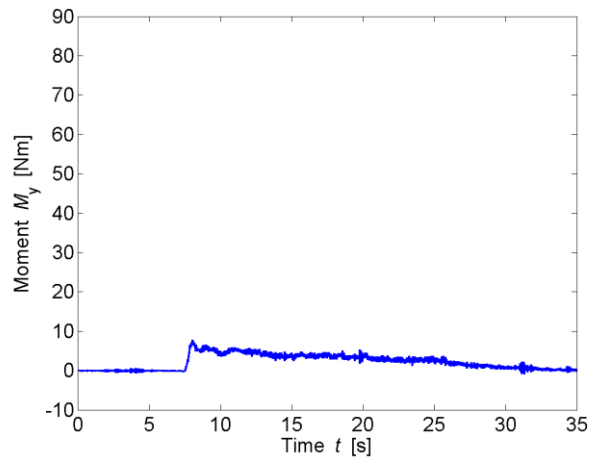
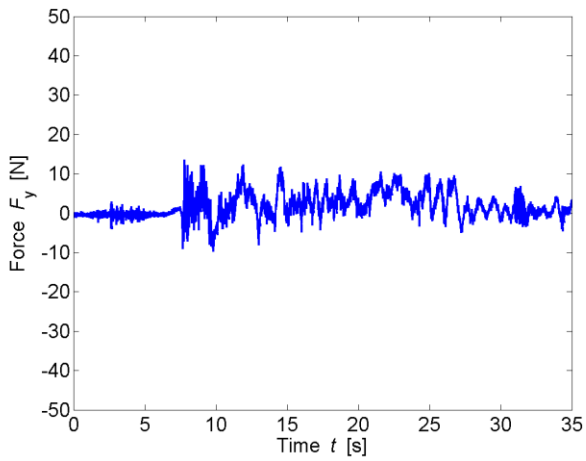
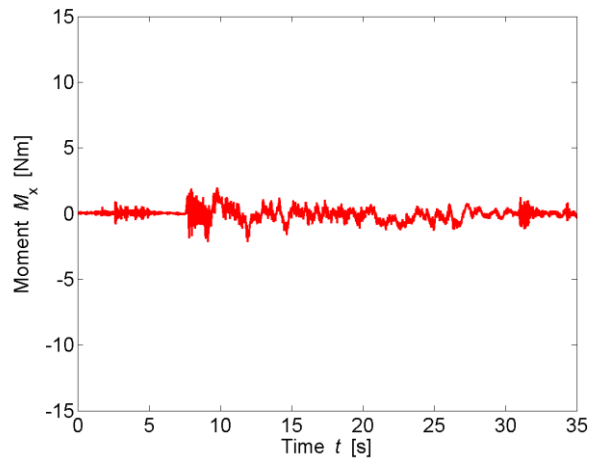
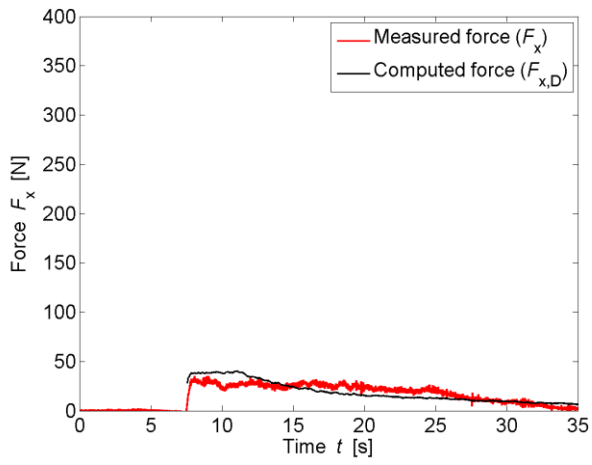


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.375	35.387	[N]
F_y	-9.760	13.537	[N]
F_z	-163.543	2.795	[N]
M_x	-2.166	1.964	[Nm]
M_y	-2.307	7.771	[Nm]
M_z	-0.664	1.010	[Nm]
Predicted Force	$F_{x,D,max}$	40.203	[N]
Initial time	t_0	7.511	[s]
Time to peak	τ_{max}	0.572	[s]
Total impulse	I_{tot}	477.856	[Ns]
Peak Impulse	I_{peak}	13.097	[Ns]
Relative impulse	I^*	0.027	[-]
Wave height at $F_{x,max}$	h_M	0.873	[-]
Resistance coefficient	C_R	0.638	[-]

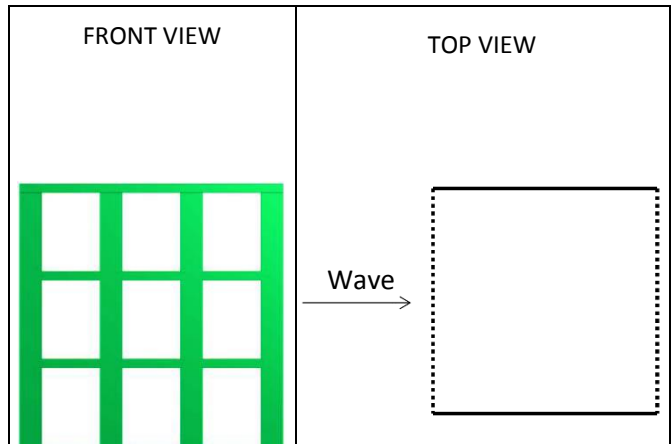


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TEST PARAMETERS

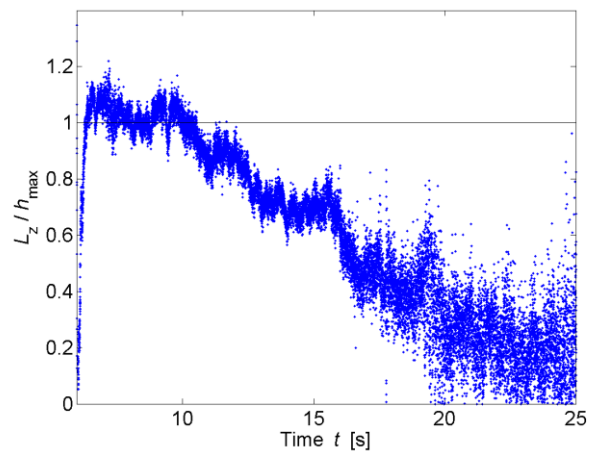
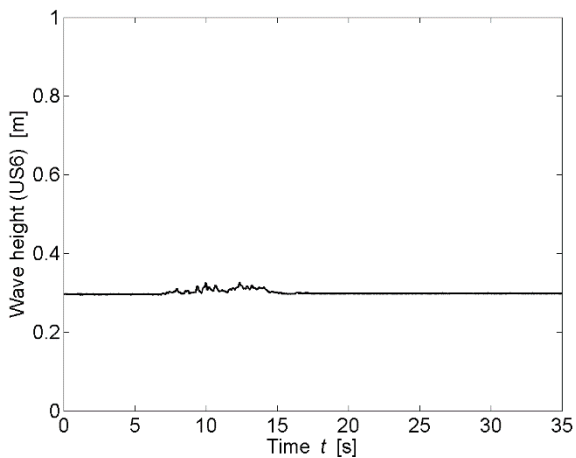
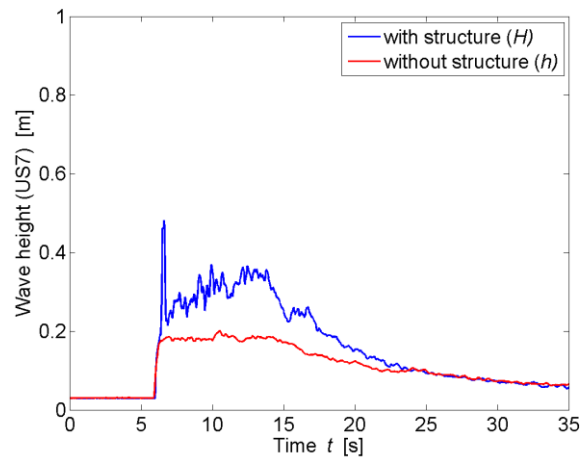
Name	B60_F_WW3_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	60.03	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.481	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.481	[m]

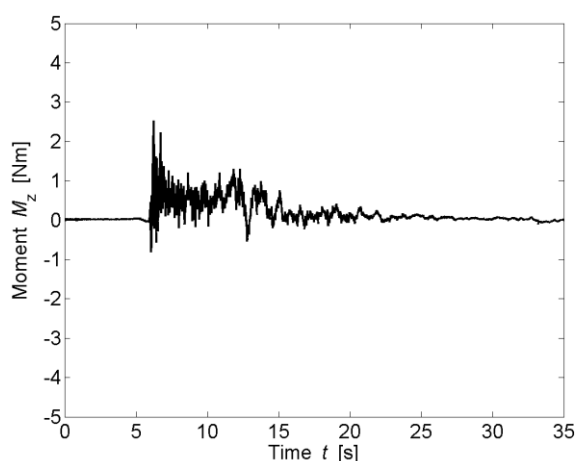
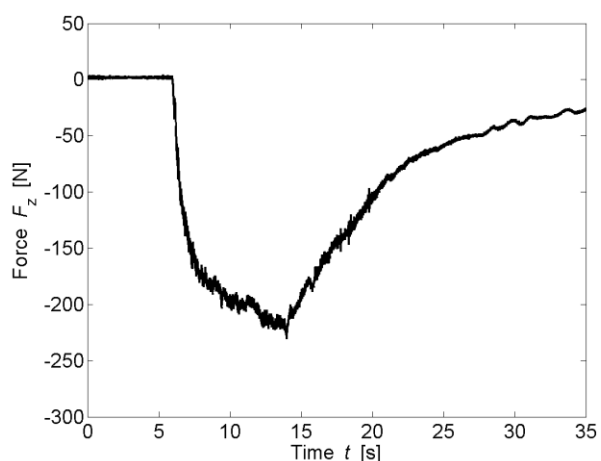
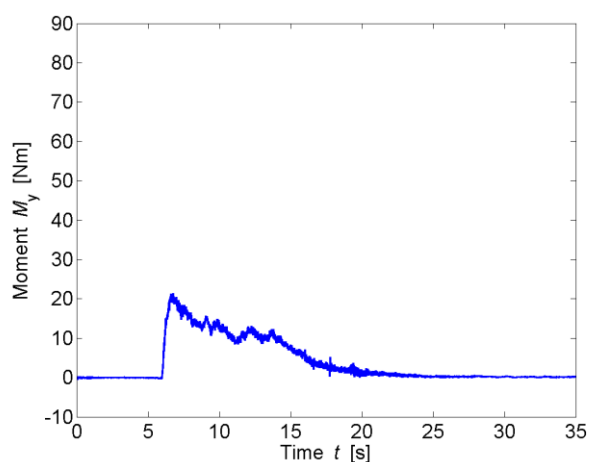
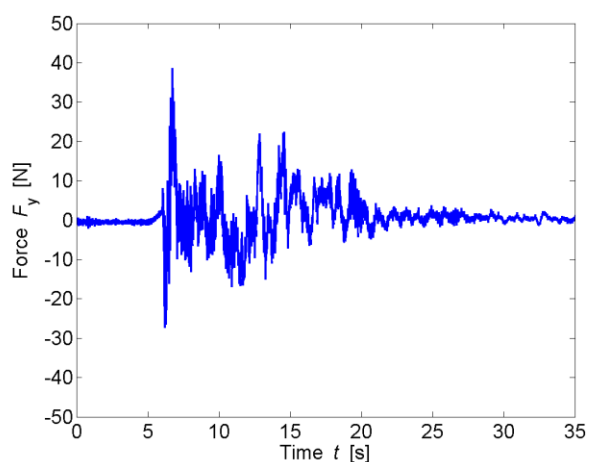
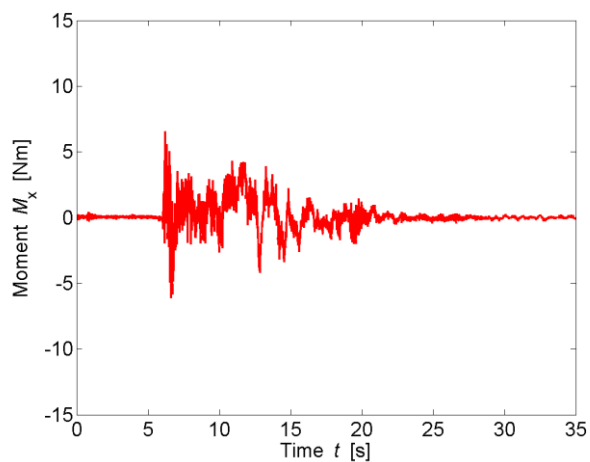
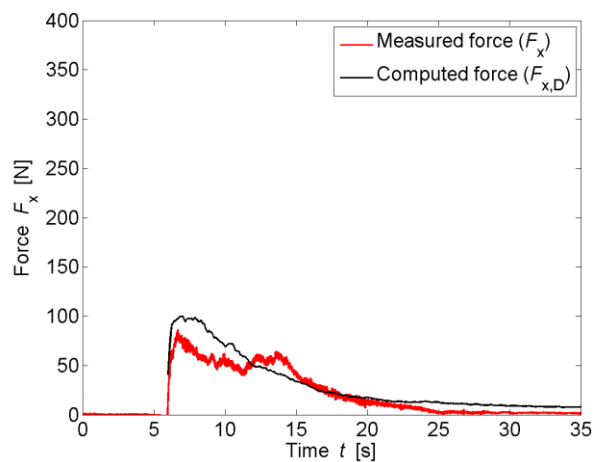


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.544	86.634	[N]
F_y	-27.380	38.597	[N]
F_z	-230.827	0.000	[N]
M_x	-6.119	6.564	[Nm]
M_y	-0.782	21.376	[Nm]
M_z	-0.808	2.523	[Nm]

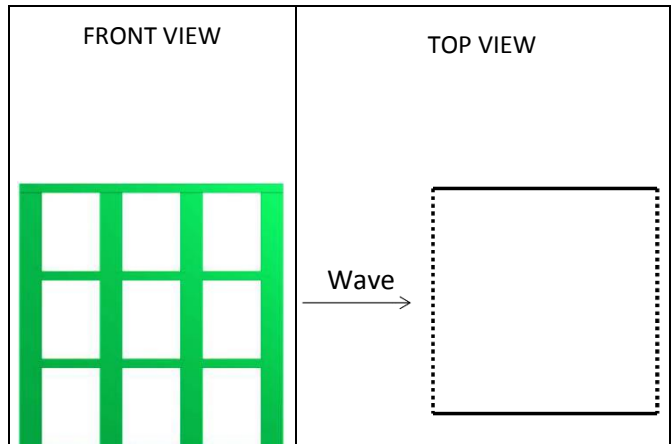
Predicted Force	$F_{x,D,max}$	99.991	[N]
Initial time	t_0	5.999	[s]
Time to peak	τ_{max}	0.678	[s]
Total impulse	I_{tot}	680.586	[Ns]
Peak Impulse	I_{peak}	40.634	[Ns]
Relative impulse	I^*	0.062	[-]
Wave height at $F_{x,max}$	h_M	0.899	[-]
Resistance coefficient	C_R	0.721	[-]





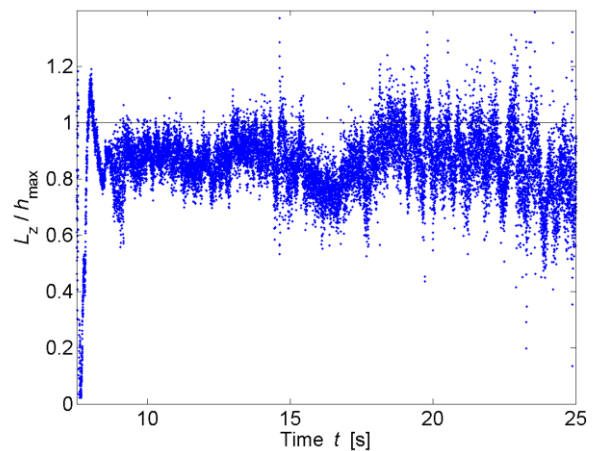
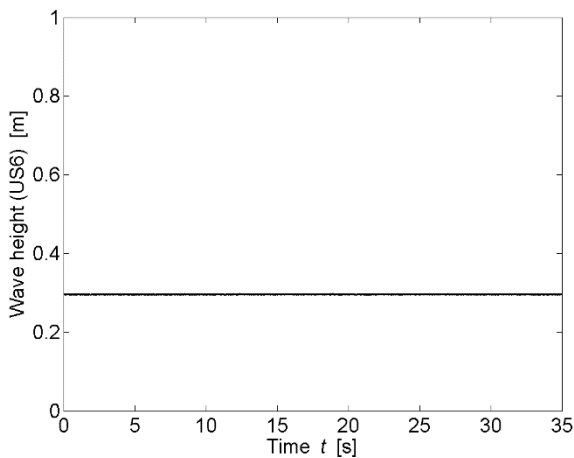
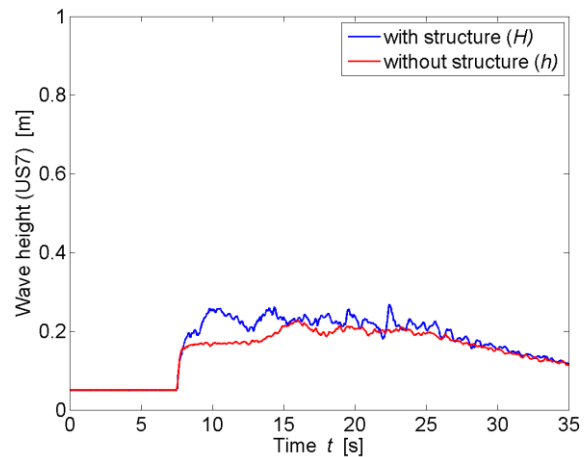
TEST PARAMETERS

Name	B60_F_WW5_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.70	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.921	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.267	[m]

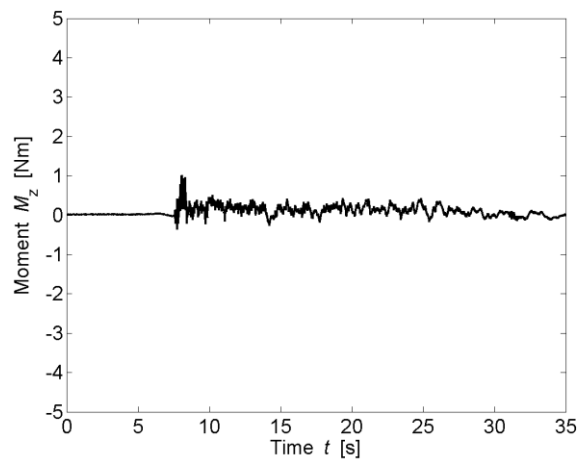
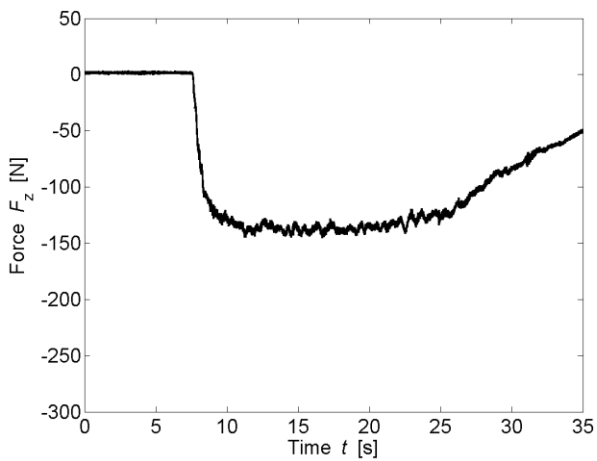
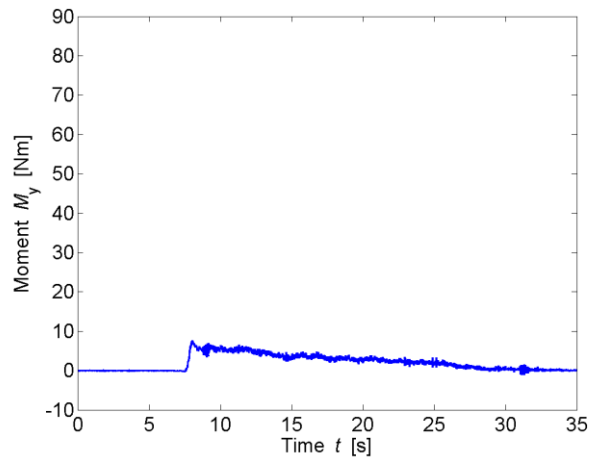
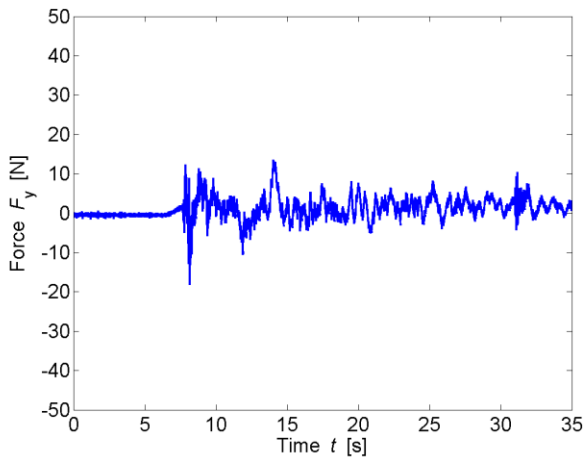
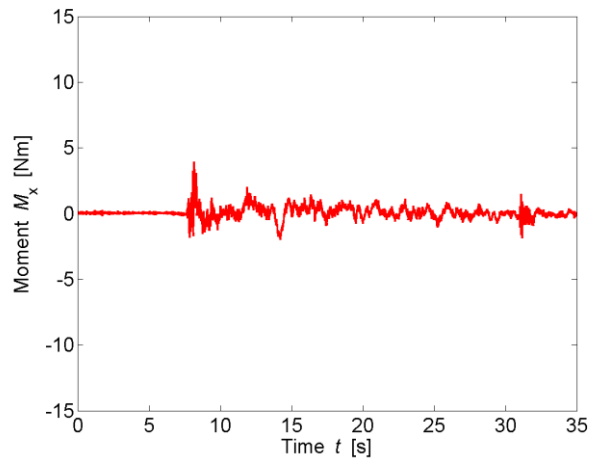
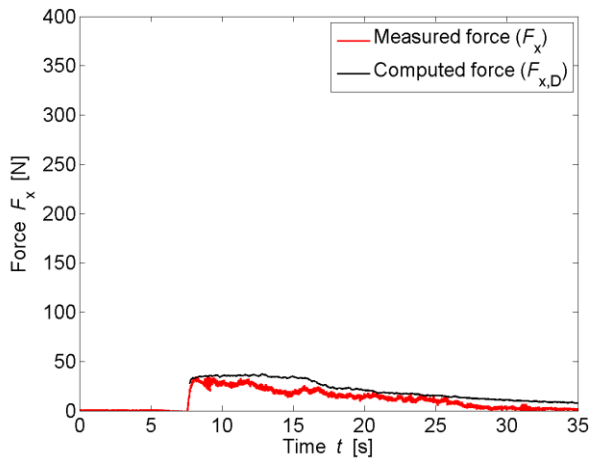


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.940	34.436	[N]
F_y	-18.154	13.562	[N]
F_z	-145.081	1.390	[N]
M_x	-1.976	3.927	[Nm]
M_y	-1.062	7.627	[Nm]
M_z	-0.361	1.012	[Nm]
Predicted Force	$F_{x,D,max}$	37.213	[N]
Initial time	t_0	7.567	[s]
Time to peak	τ_{max}	0.586	[s]
Total impulse	I_{tot}	358.564	[Ns]
Peak Impulse	I_{peak}	13.030	[Ns]
Relative impulse	I^*	0.036	[-]
Wave height at $F_{x,max}$	h_M	0.700	[-]
Resistance coefficient	C_R	0.657	[-]

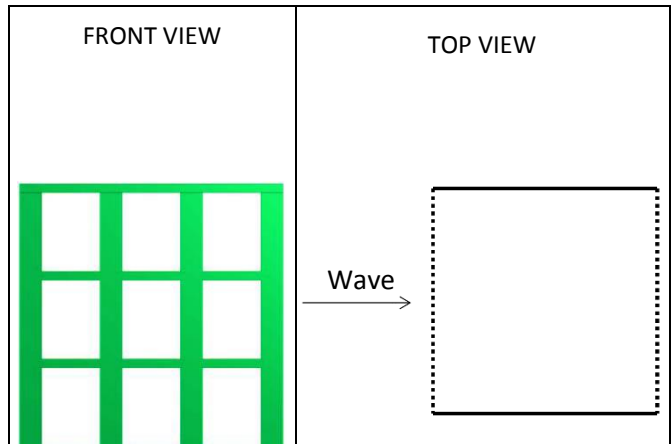


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TEST PARAMETERS

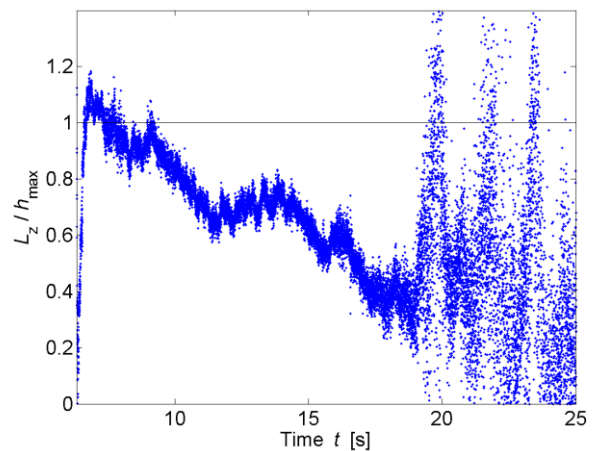
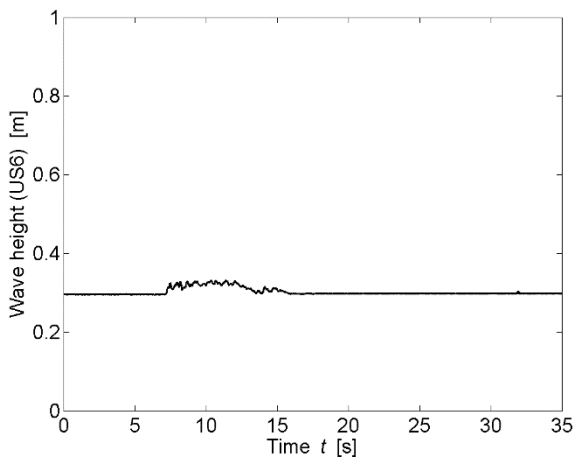
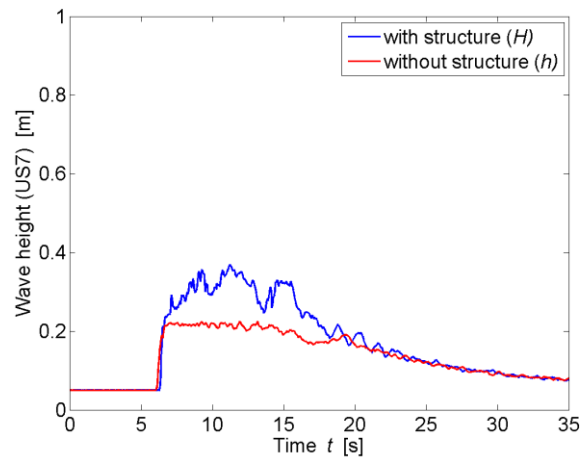
Name	B60_F_WW5_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	60.58	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.435	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.369	[m]

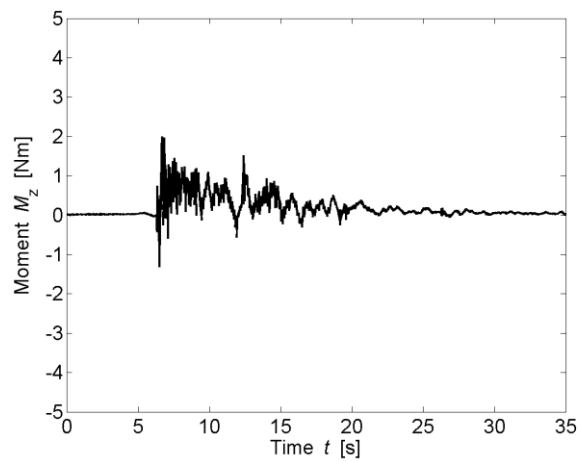
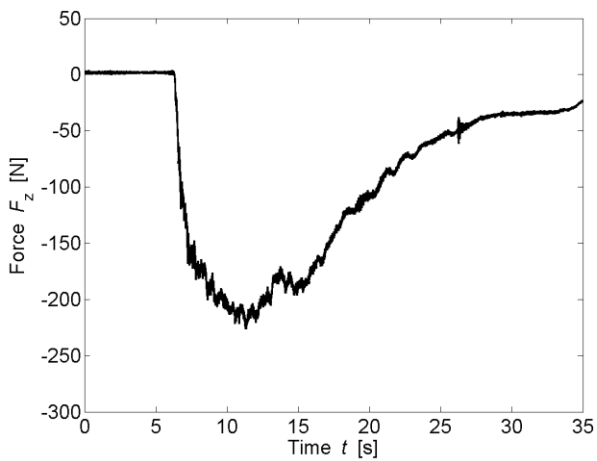
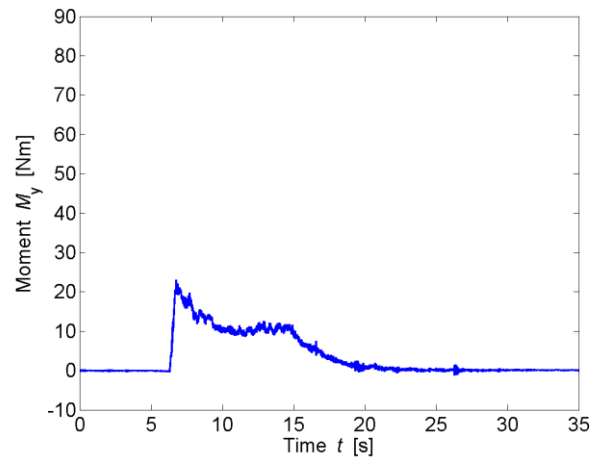
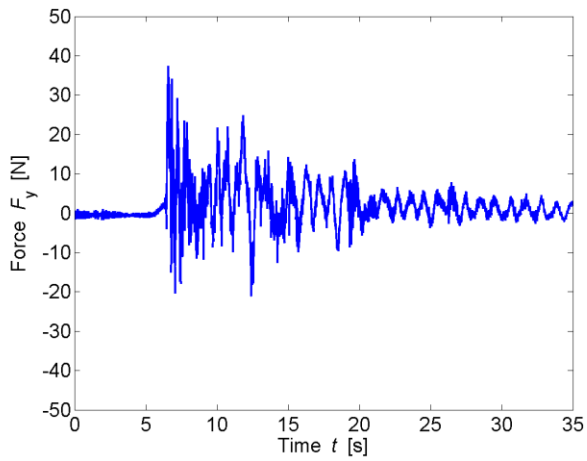
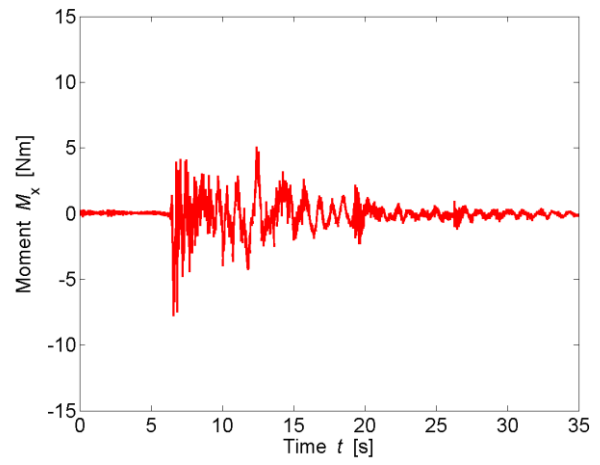
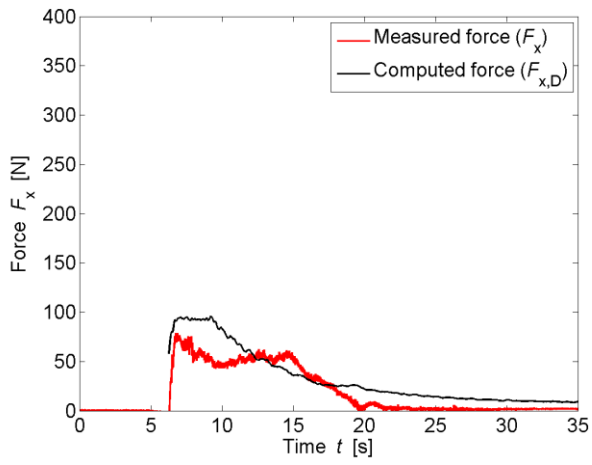


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.004	78.771	[N]
F_y	-21.066	37.447	[N]
F_z	-226.235	0.000	[N]
M_x	-7.784	5.076	[Nm]
M_y	-1.229	23.043	[Nm]
M_z	-1.309	1.994	[Nm]

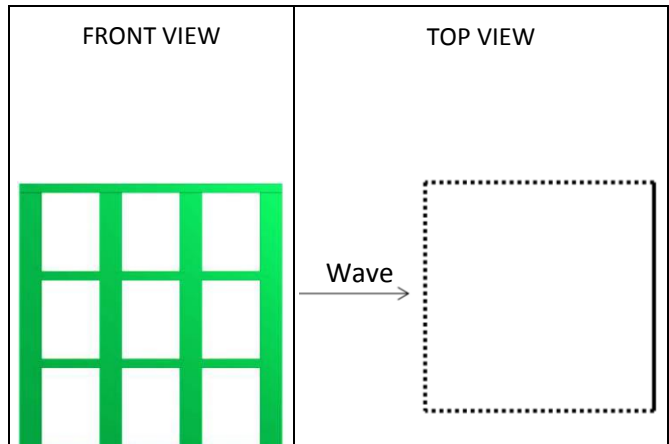
Predicted Force	$F_{x,D,max}$	95.725	[N]
Initial time	t_0	6.356	[s]
Time to peak	τ_{max}	0.416	[s]
Total impulse	I_{tot}	624.304	[Ns]
Peak Impulse	I_{peak}	21.117	[Ns]
Relative impulse	I^*	0.035	[-]
Wave height at $F_{x,max}$	h_M	0.952	[-]
Resistance coefficient	C_R	0.651	[-]





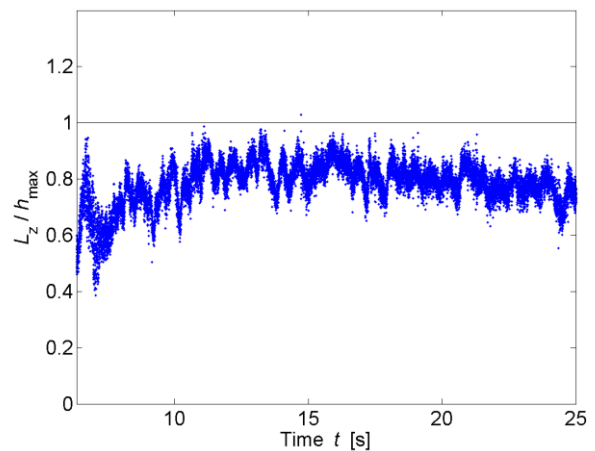
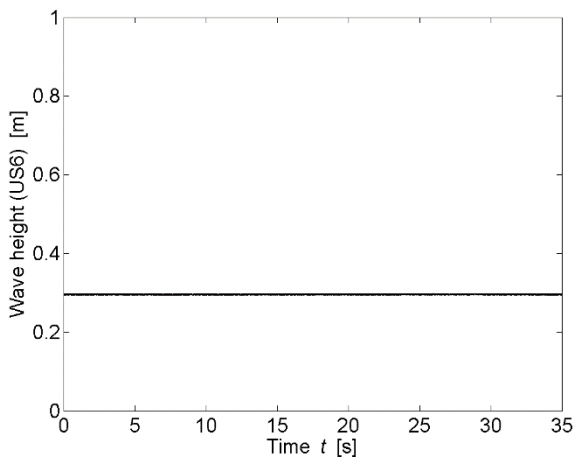
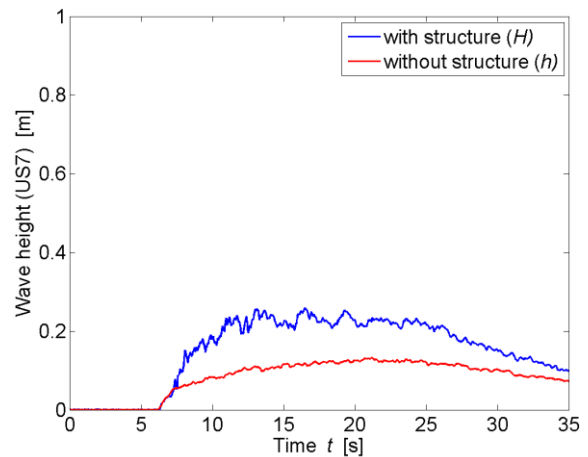
TEST PARAMETERS

Name	B60_B_WD1_1		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	61.15	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.342	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.259	[m]

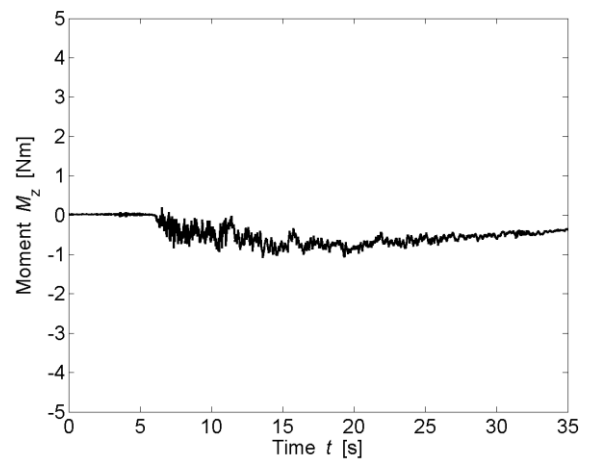
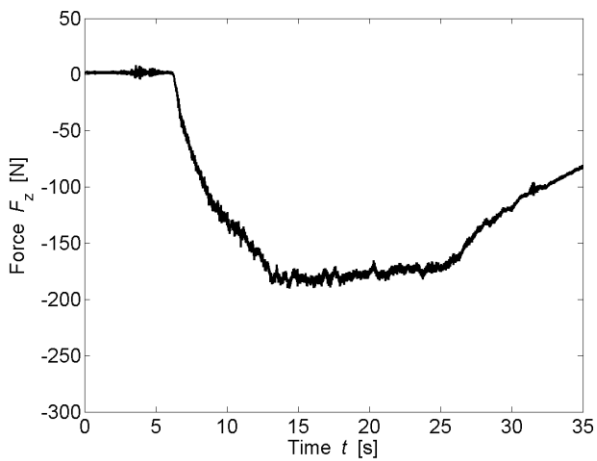
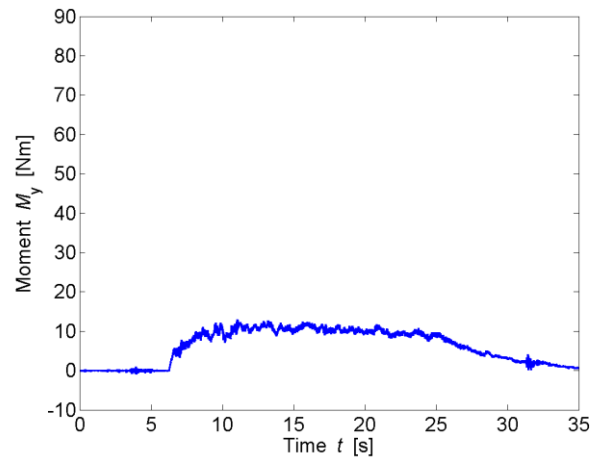
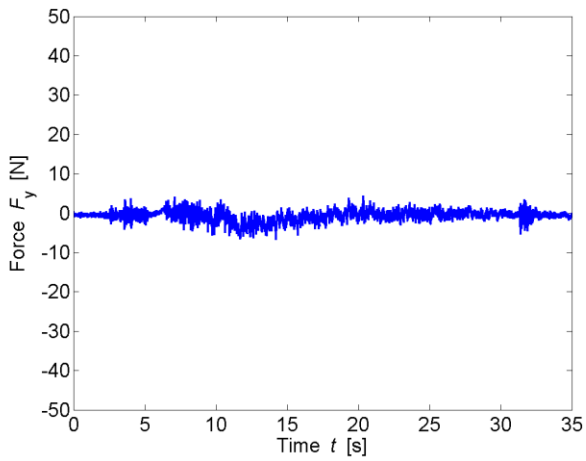
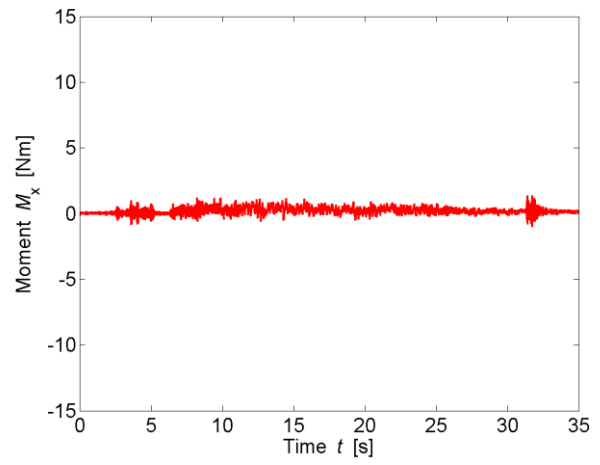
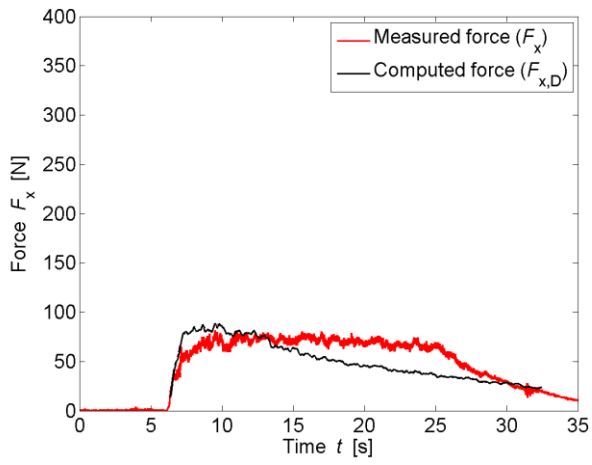


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.883	81.723	[N]
F_y	-6.775	4.434	[N]
F_z	-189.875	0.000	[N]
M_x	-0.985	1.362	[Nm]
M_y	-0.999	12.936	[Nm]
M_z	-1.088	0.194	[Nm]
Predicted Force	$F_{x,D,max}$	88.318	[N]
Initial time	t_0	6.381	[s]
Time to peak	τ_{max}	4.673	[s]
Total impulse	I_{tot}	1356.972	[Ns]
Peak Impulse	I_{peak}	282.533	[Ns]
Relative impulse	I^*	0.201	[-]
Wave height at $F_{x,max}$	h_M	0.677	[-]
Resistance coefficient	C_R	1.853	[-]

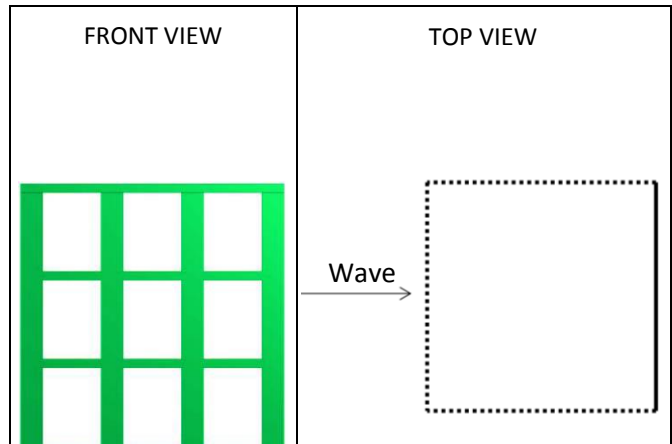


* All parameters are presented and defined at the beginning of the Appendix



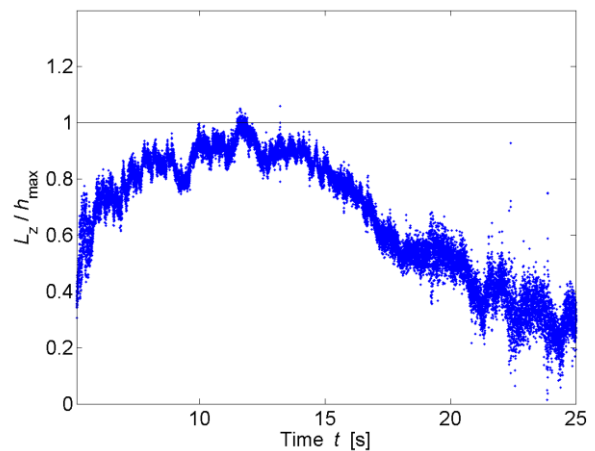
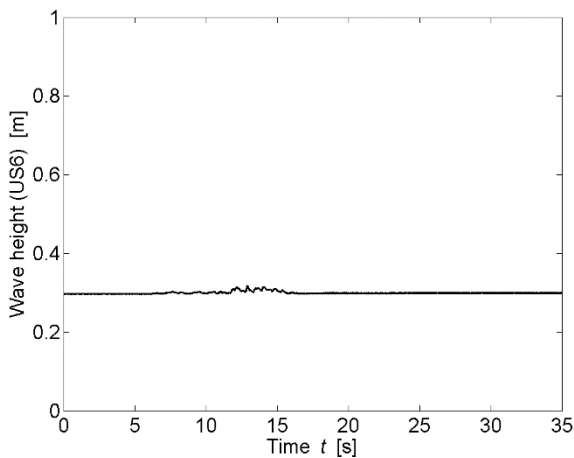
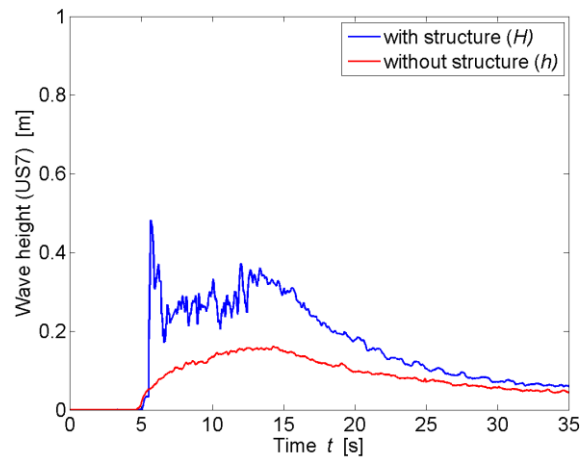
TEST PARAMETERS

Name	B60_B_WD2_4		
Repetitions	5		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.17	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.044	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.481	[m]

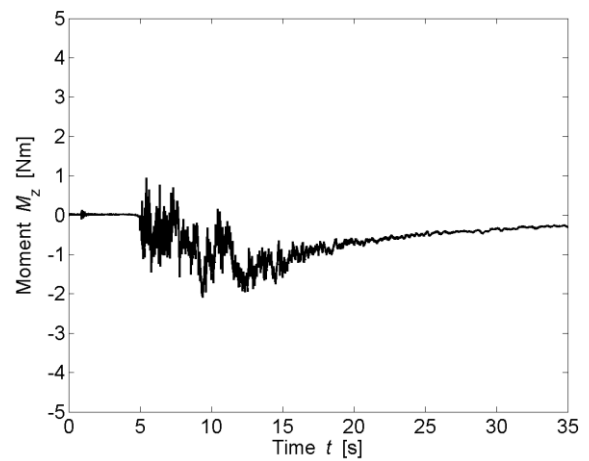
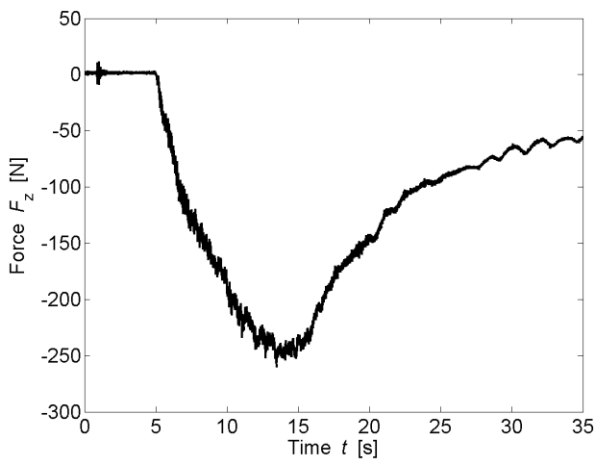
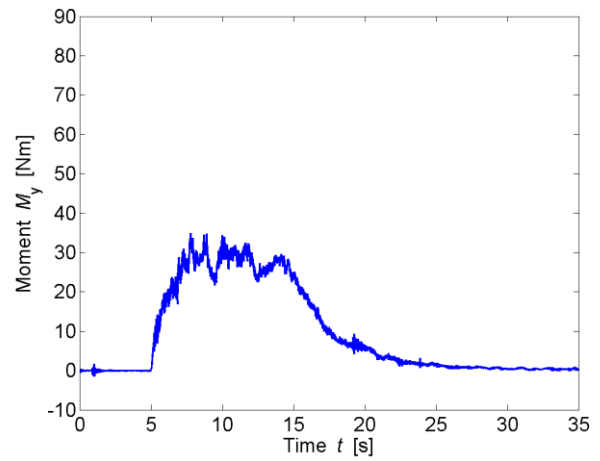
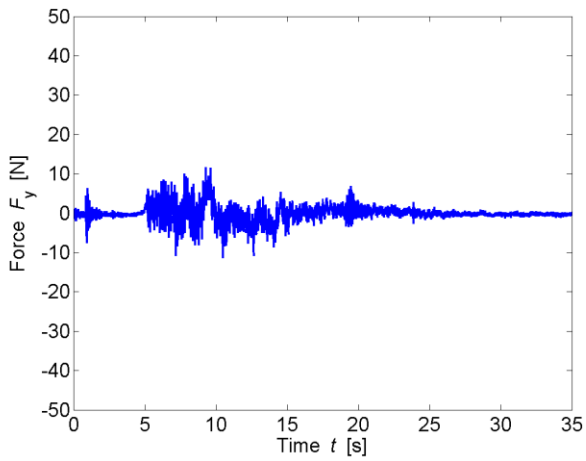
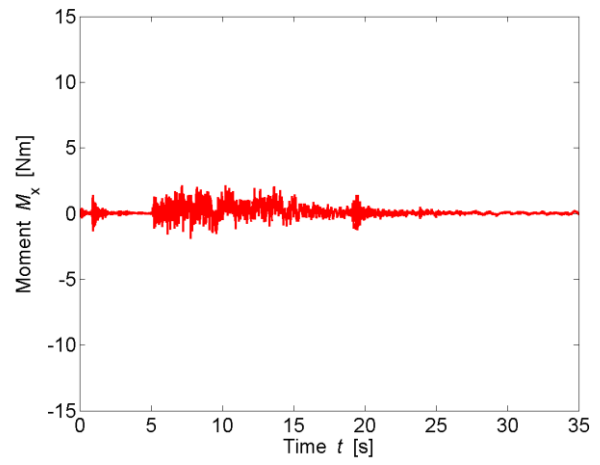
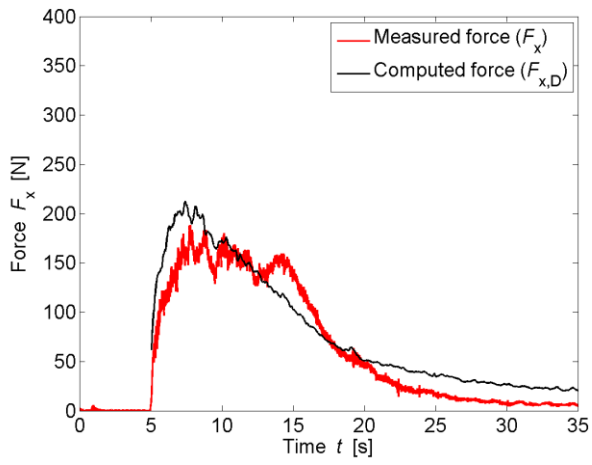


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.077	188.369	[N]
F_y	-11.400	11.628	[N]
F_z	-260.159	0.000	[N]
M_x	-1.900	2.147	[Nm]
M_y	-1.520	34.900	[Nm]
M_z	-2.085	0.951	[Nm]
Predicted Force	$F_{x,D,max}$	212.377	[N]
Initial time	t_0	5.139	[s]
Time to peak	τ_{max}	2.643	[s]
Total impulse	I_{tot}	2034.984	[Ns]
Peak Impulse	I_{peak}	333.434	[Ns]
Relative impulse	I^*	0.174	[-]
Wave height at $F_{x,max}$	h_M	0.649	[-]
Resistance coefficient	C_R	1.861	[-]

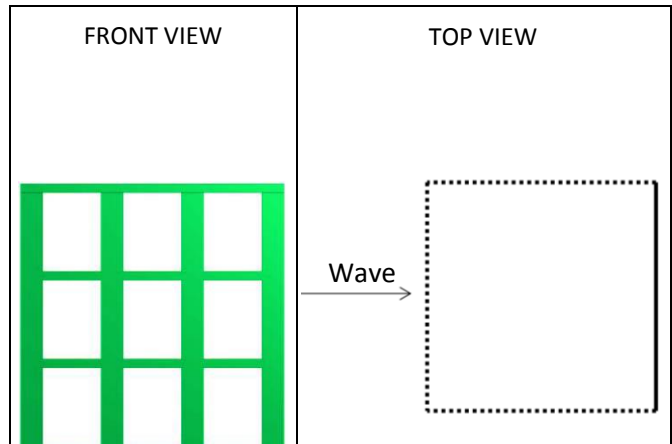


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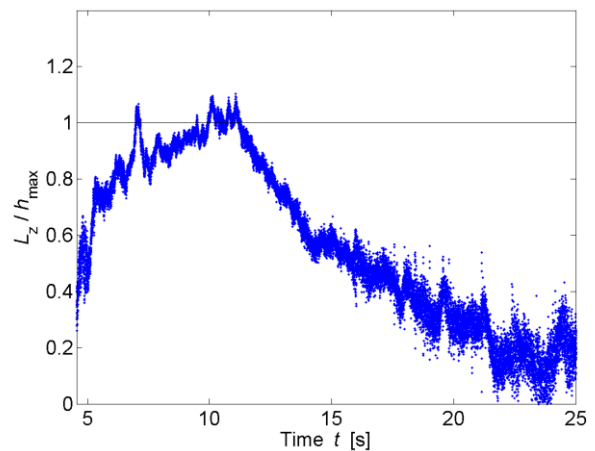
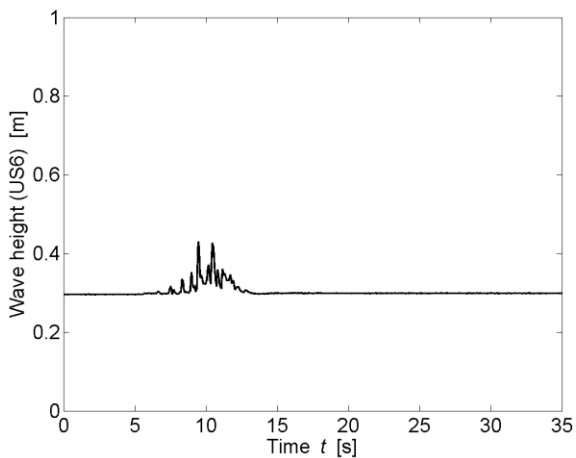
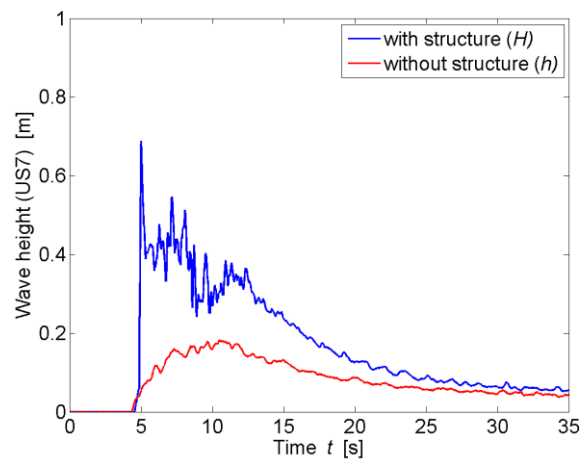
TEST PARAMETERS

Name	B60_B_WD3_2		
Repetitions	3		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.87	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.544	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.689	[m]

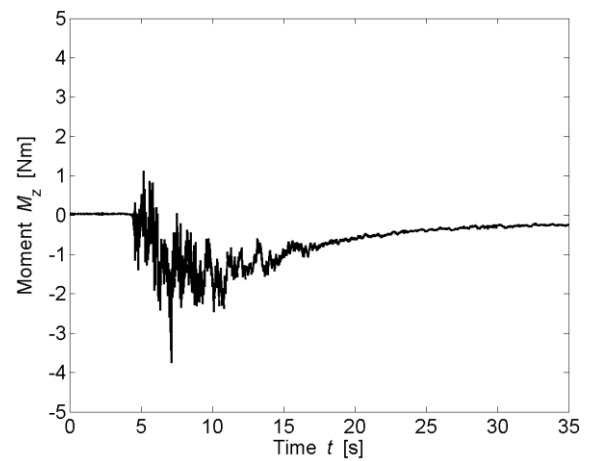
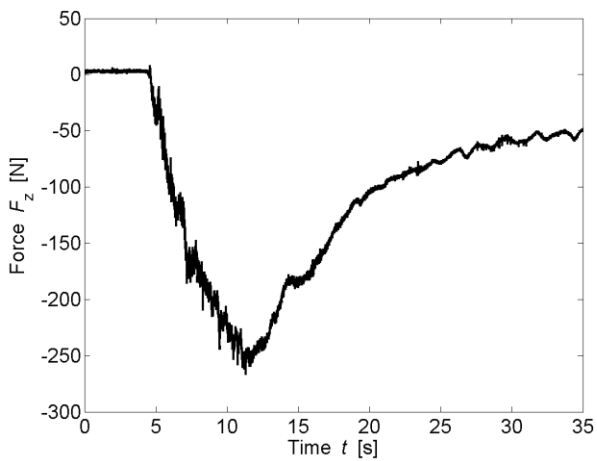
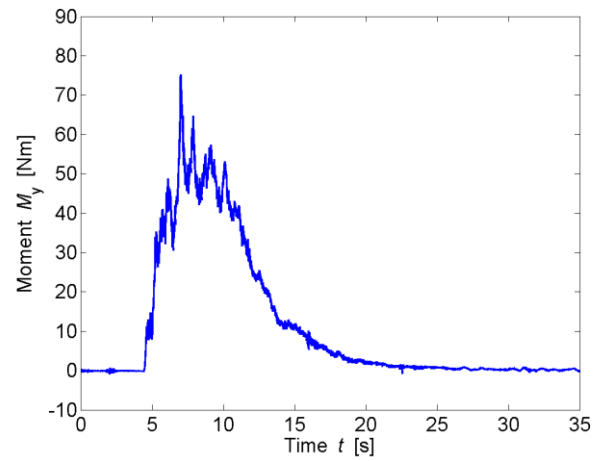
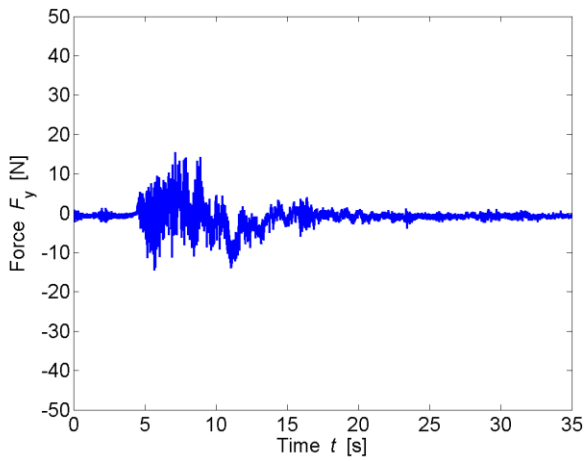
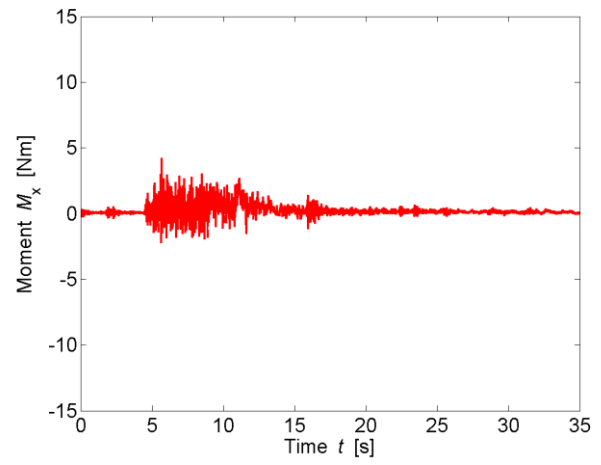
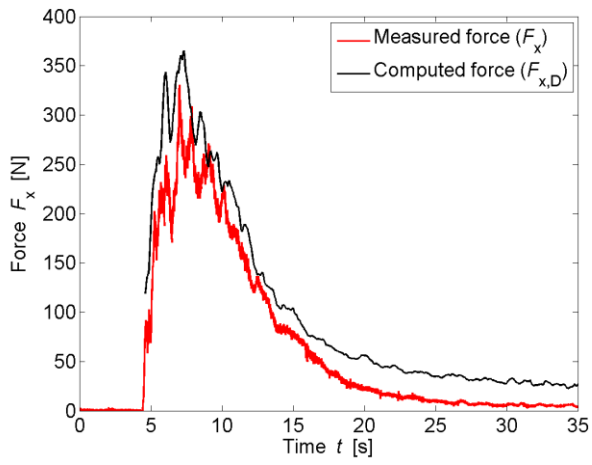


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.718	330.624	[N]
F_y	-14.577	15.524	[N]
F_z	-266.922	8.027	[N]
M_x	-2.216	4.226	[Nm]
M_y	-1.182	75.169	[Nm]
M_z	-3.750	1.119	[Nm]
Predicted Force	$F_{x,D,max}$	365.348	[N]
Initial time	t_0	4.605	[s]
Time to peak	τ_{max}	2.427	[s]
Total impulse	I_{tot}	2185.523	[Ns]
Peak Impulse	I_{peak}	448.861	[Ns]
Relative impulse	I^*	0.220	[-]
Wave height at $F_{x,max}$	h_M	0.798	[-]
Resistance coefficient	C_R	1.729	[-]

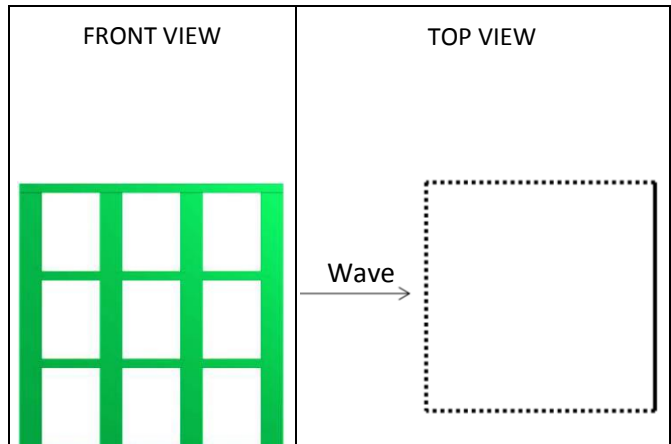


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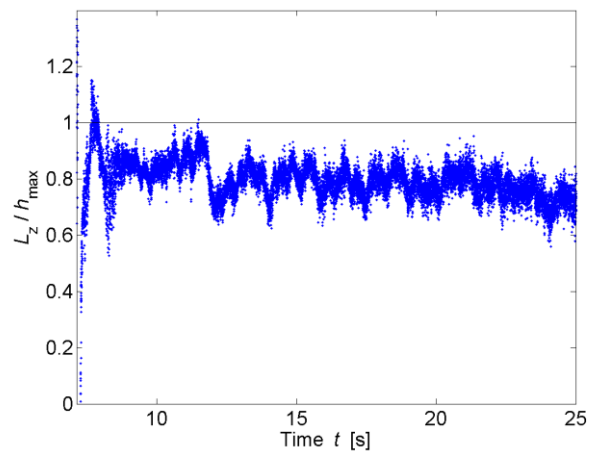
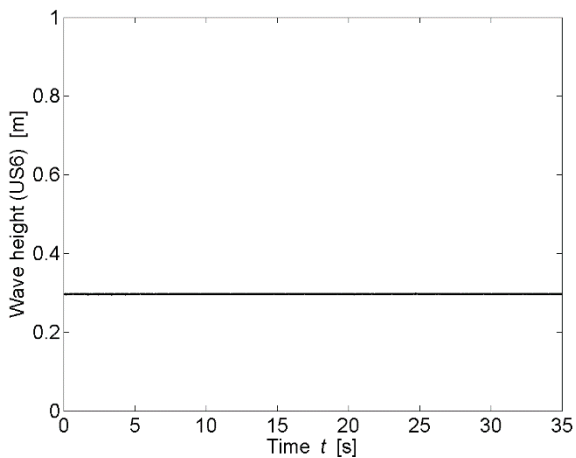
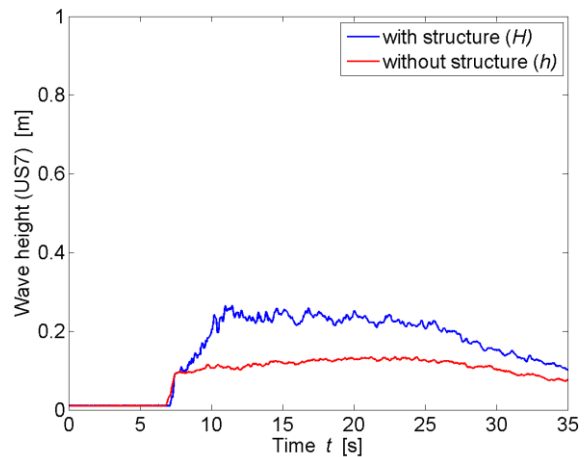
TEST PARAMETERS

Name	B60_B_WW1_1P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	61.22	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.128	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.265	[m]

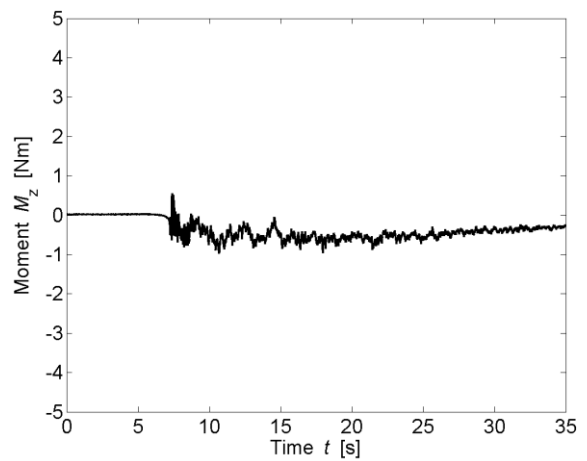
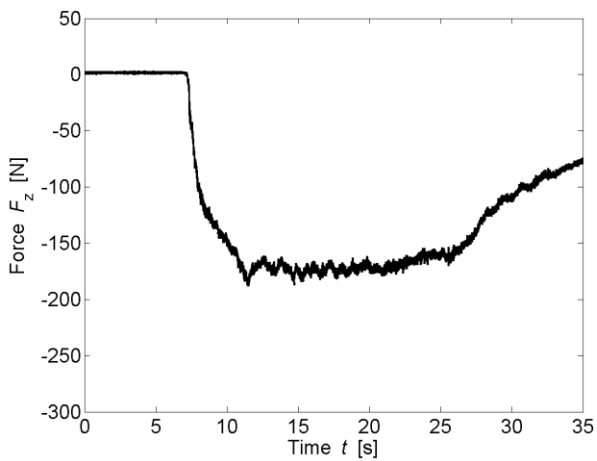
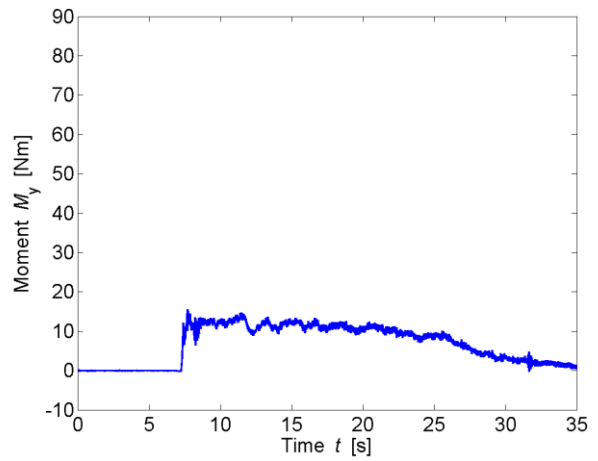
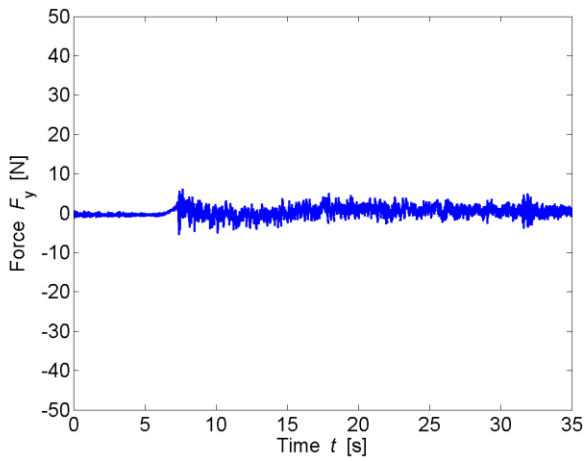
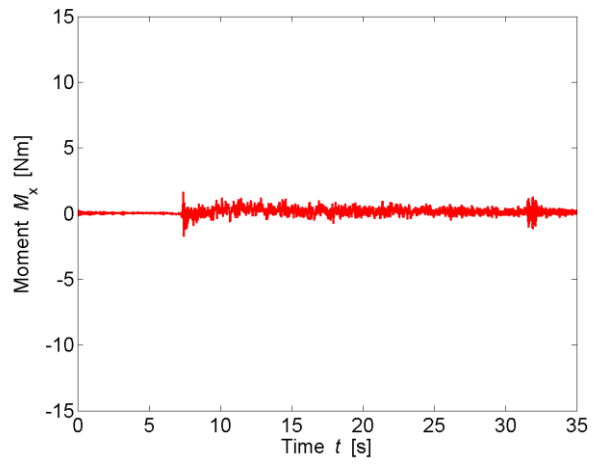
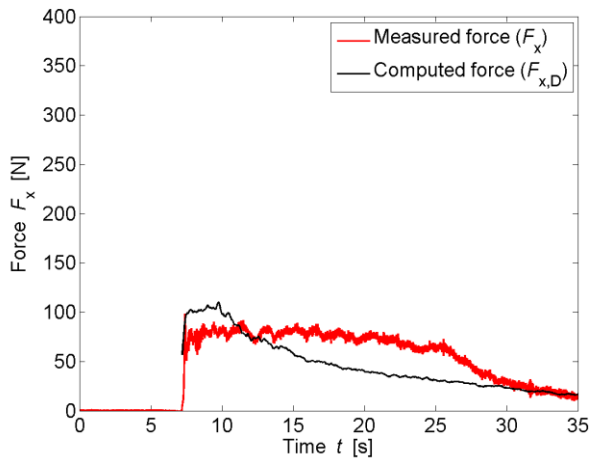


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-1.311	98.610	[N]
F_y	-5.502	6.196	[N]
F_z	-188.188	1.483	[N]
M_x	-1.741	1.657	[Nm]
M_y	-0.491	15.521	[Nm]
M_z	-0.968	0.556	[Nm]
Predicted Force	$F_{x,D,max}$	109.967	[N]
Initial time	t_0	7.179	[s]
Time to peak	τ_{max}	0.234	[s]
Total impulse	I_{tot}	1468.644	[Ns]
Peak Impulse	I_{peak}	5.494	[Ns]
Relative impulse	I^*	0.004	[-]
Wave height at $F_{x,max}$	h_M	0.633	[-]
Resistance coefficient	C_R	1.098	[-]

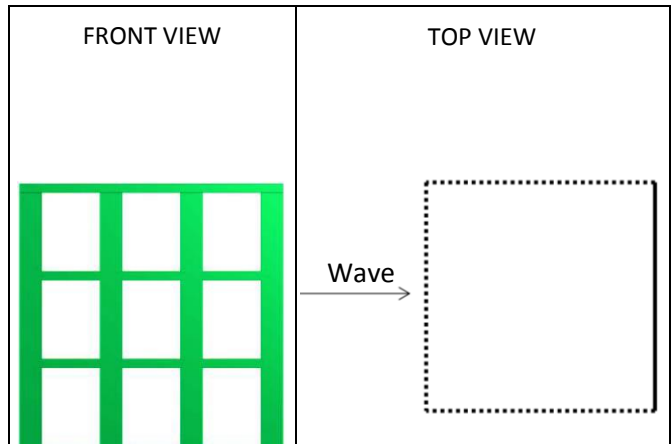


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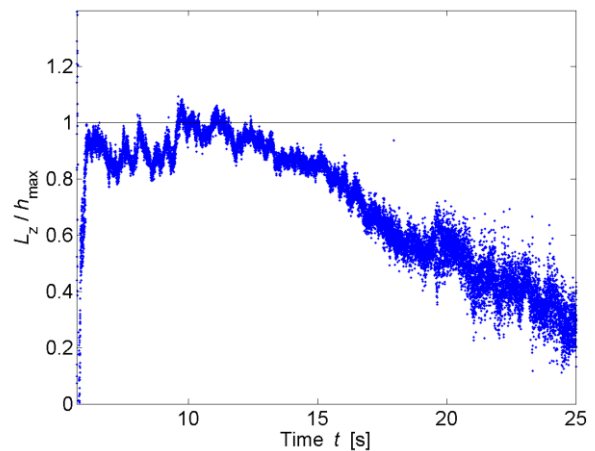
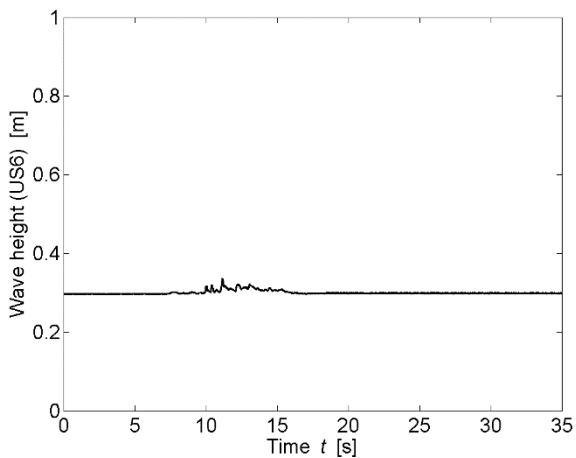
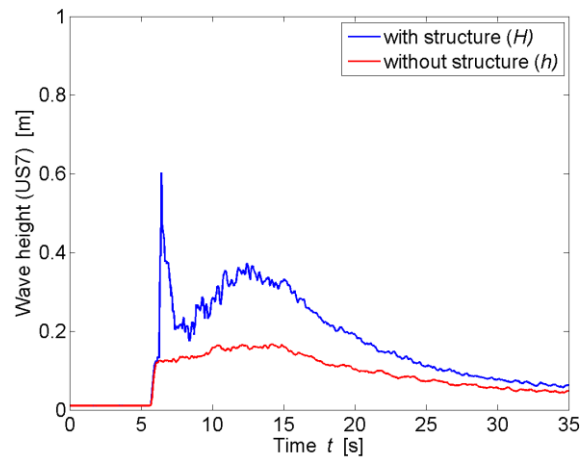
TEST PARAMETERS

Name	B60_B_WW1_2P_2		
Repetitions	2		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.38	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.709	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.603	[m]

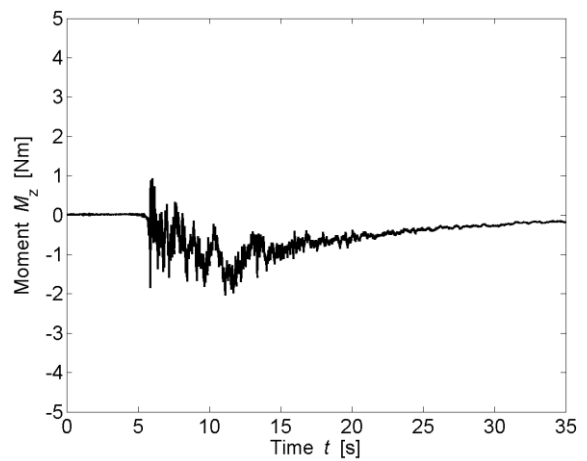
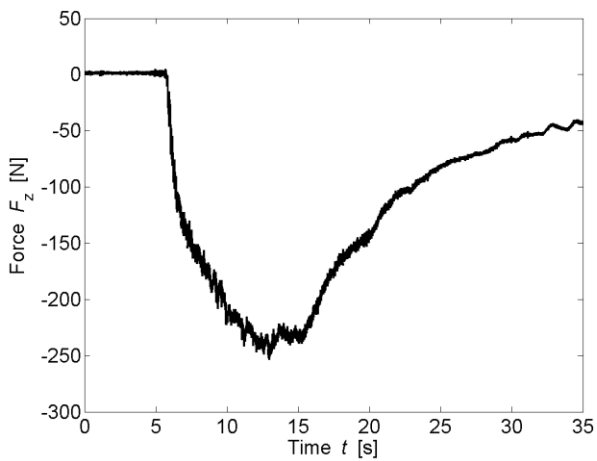
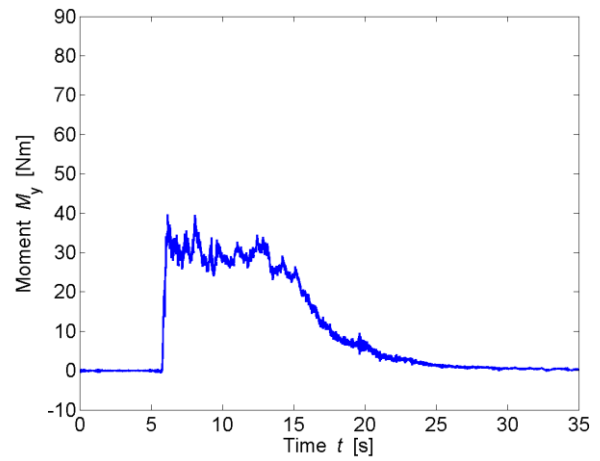
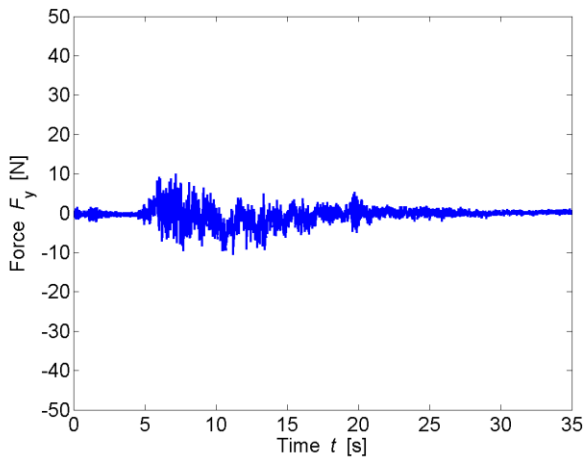
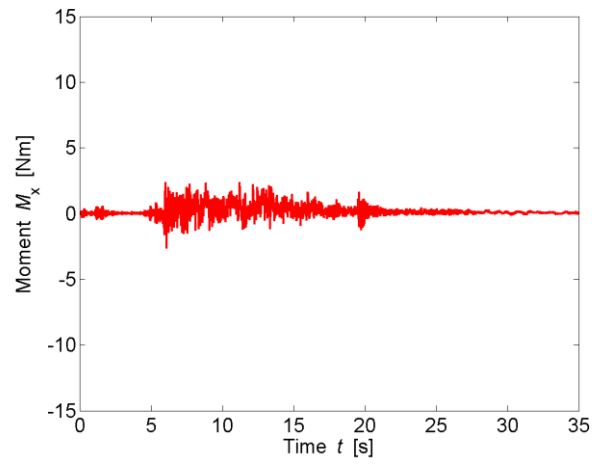
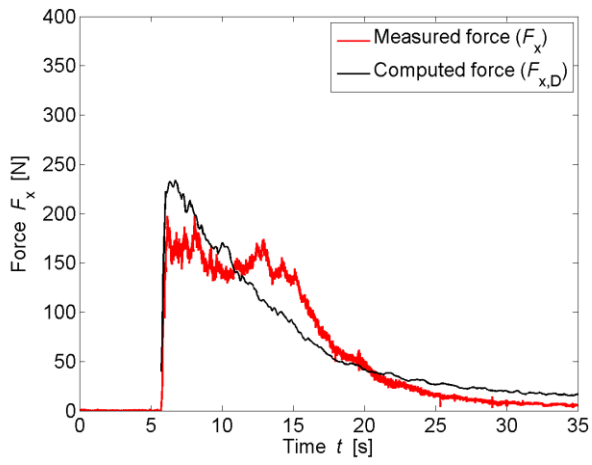


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.343	197.709	[N]
F_y	-10.519	10.038	[N]
F_z	-253.318	0.828	[N]
M_x	-2.624	2.379	[Nm]
M_y	-1.917	39.600	[Nm]
M_z	-2.042	0.933	[Nm]
Predicted Force	$F_{x,D,max}$	233.827	[N]
Initial time	t_0	5.723	[s]
Time to peak	τ_{max}	0.451	[s]
Total impulse	I_{tot}	1980.662	[Ns]
Peak Impulse	I_{peak}	45.865	[Ns]
Relative impulse	I^*	0.025	[-]
Wave height at $F_{x,max}$	h_M	0.713	[-]
Resistance coefficient	C_R	1.530	[-]

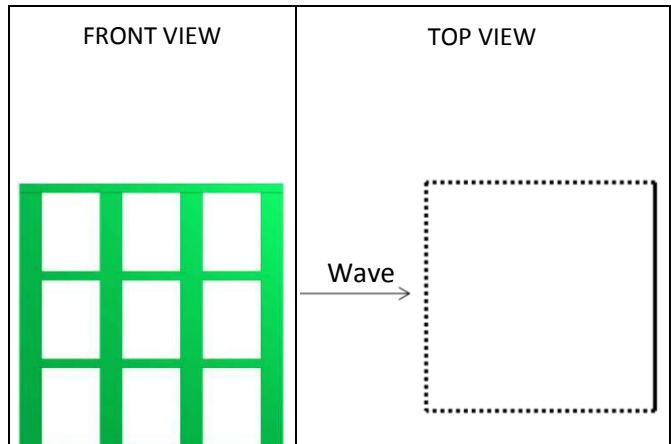


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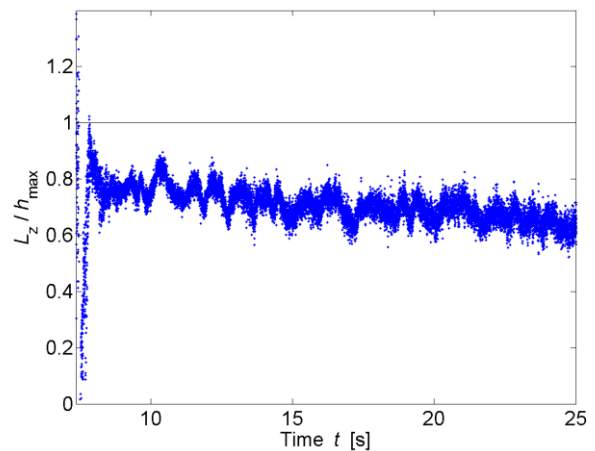
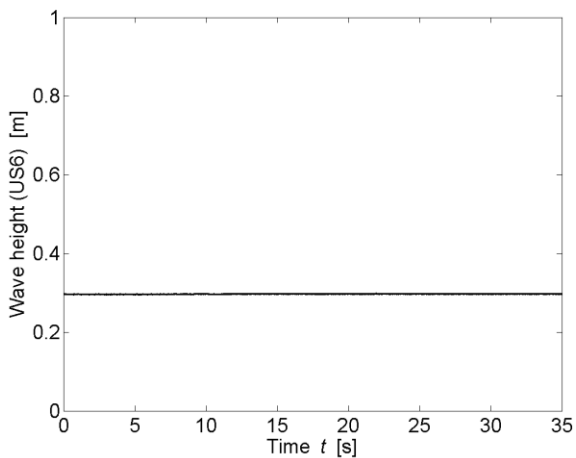
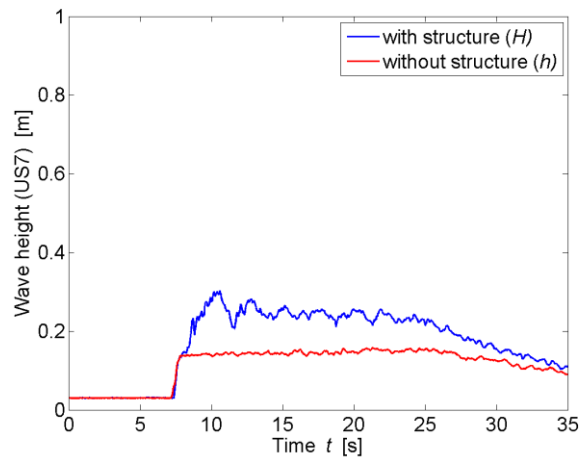
TEST PARAMETERS

Name	B60_B_WW3_1P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.07	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.984	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.303	[m]

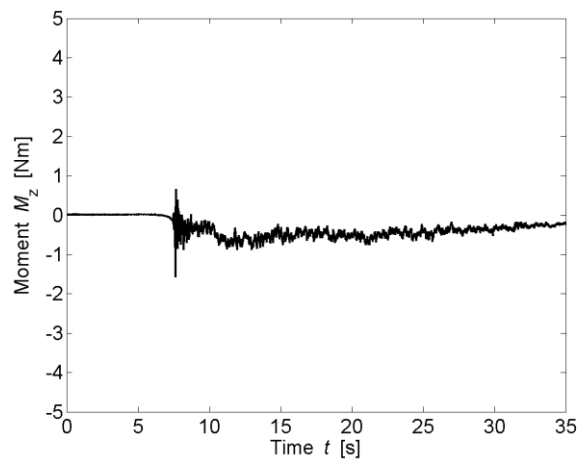
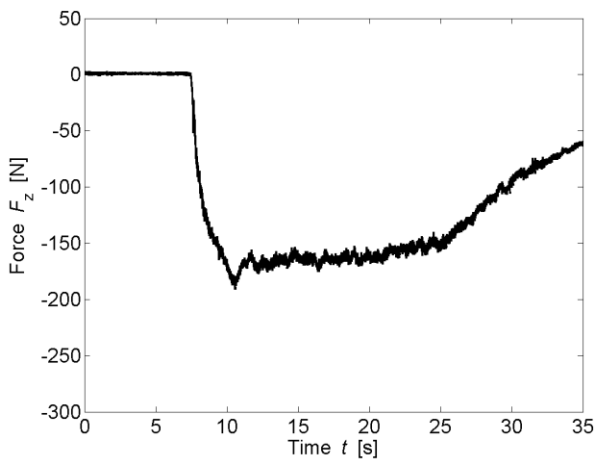
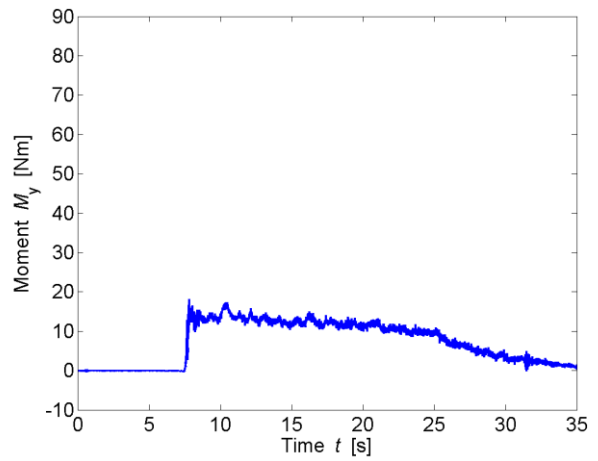
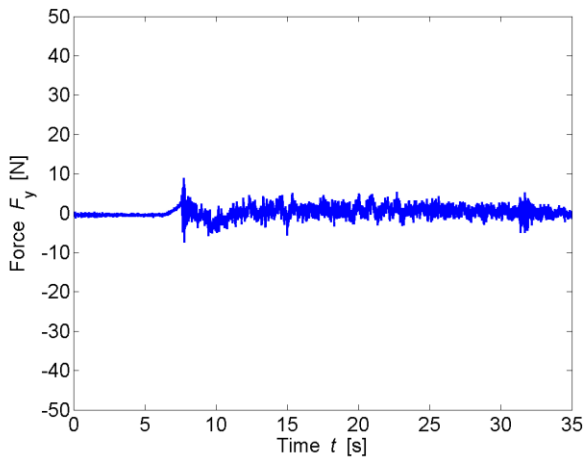
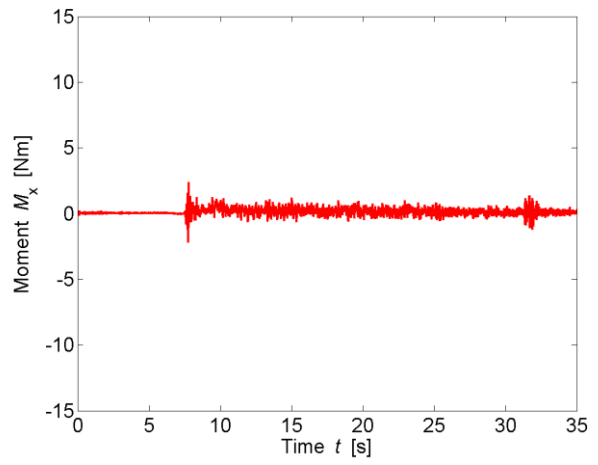
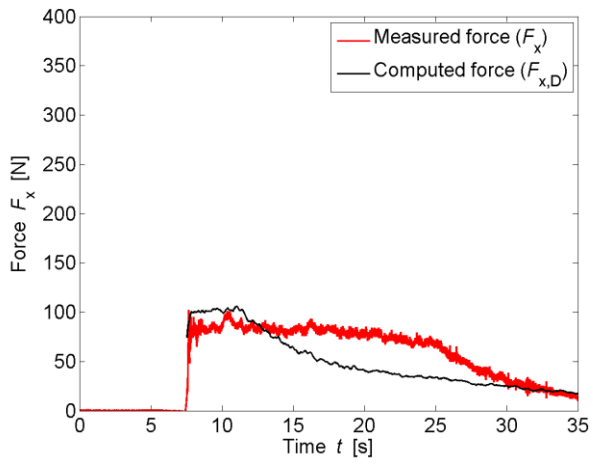


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.448	101.924	[N]
F_y	-7.484	8.937	[N]
F_z	-191.094	1.765	[N]
M_x	-2.174	2.384	[Nm]
M_y	-0.900	18.140	[Nm]
M_z	-1.570	0.666	[Nm]
Predicted Force	$F_{x,D,max}$	105.981	[N]
Initial time	t_0	7.418	[s]
Time to peak	τ_{max}	0.256	[s]
Total impulse	I_{tot}	1540.093	[Ns]
Peak Impulse	I_{peak}	6.029	[Ns]
Relative impulse	I^*	0.004	[-]
Wave height at $F_{x,max}$	h_M	0.781	[-]
Resistance coefficient	C_R	1.530	[-]

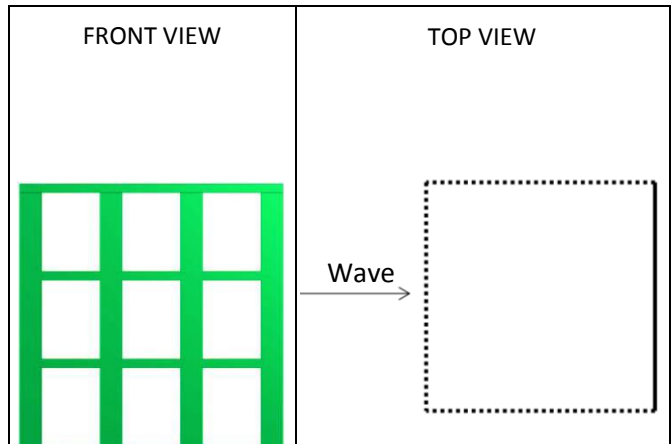


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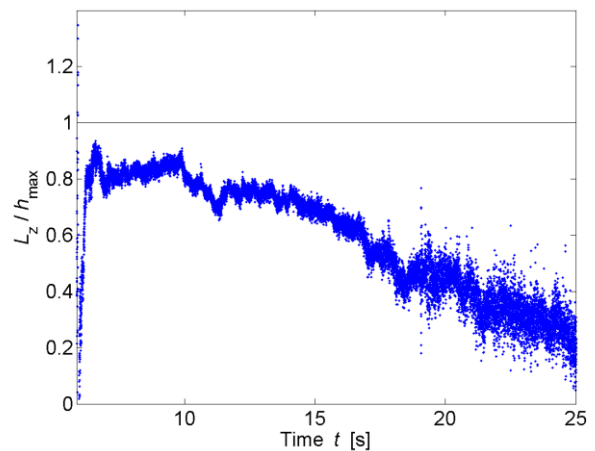
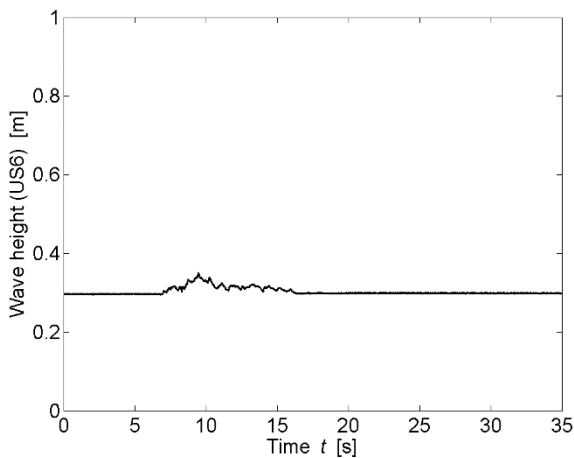
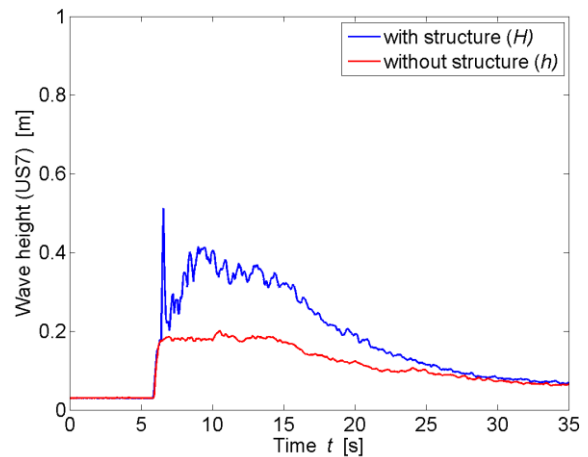
TEST PARAMETERS

Name	B60_B_WW3_2P_1		
Repetitions	1		
Configuration	Impervious back (B)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	60.03	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.530	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.512	[m]

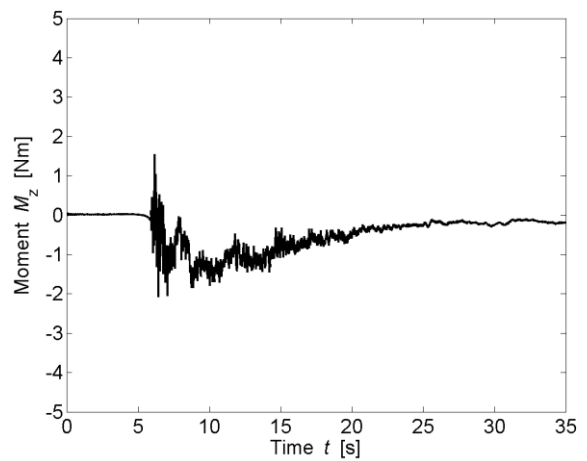
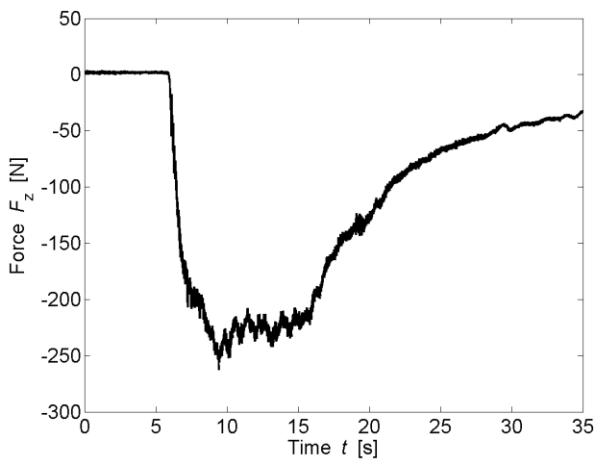
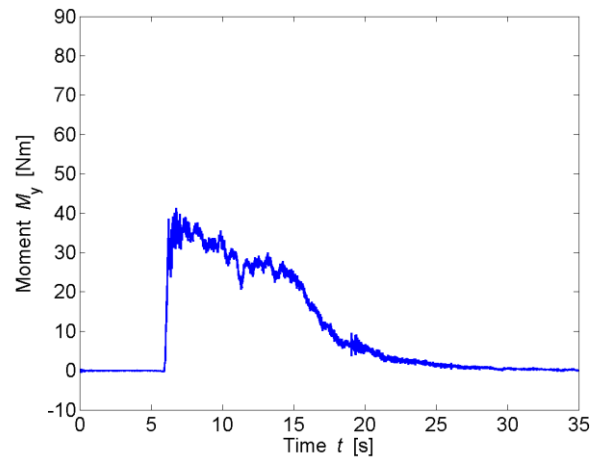
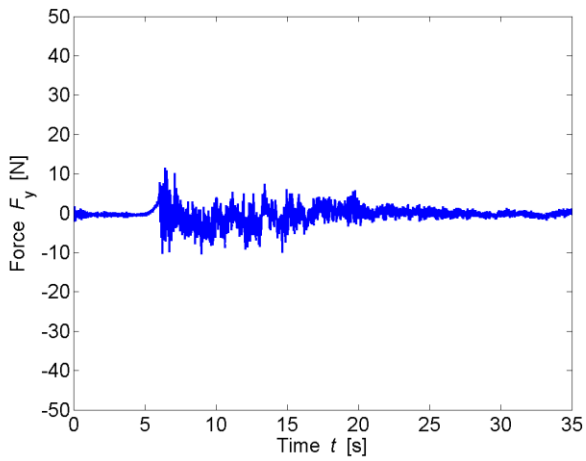
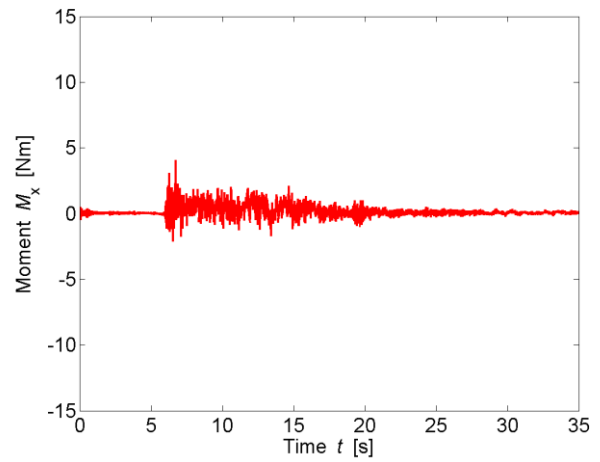
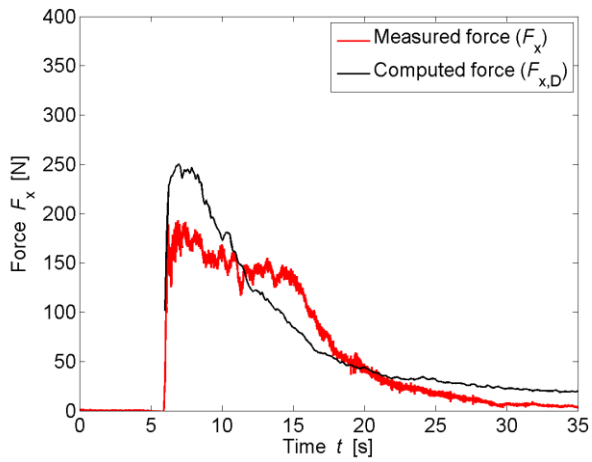


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.448	193.232	[N]
F_y	-10.397	11.531	[N]
F_z	-262.408	1.765	[N]
M_x	-2.096	4.059	[Nm]
M_y	-0.507	41.318	[Nm]
M_z	-2.076	1.546	[Nm]
Predicted Force	$F_{x,D,max}$	250.164	[N]
Initial time	t_0	5.898	[s]
Time to peak	τ_{max}	1.010	[s]
Total impulse	I_{tot}	1944.867	[Ns]
Peak Impulse	I_{peak}	137.448	[Ns]
Relative impulse	I^*	0.075	[-]
Wave height at $F_{x,max}$	h_M	0.921	[-]
Resistance coefficient	C_R	1.534	[-]

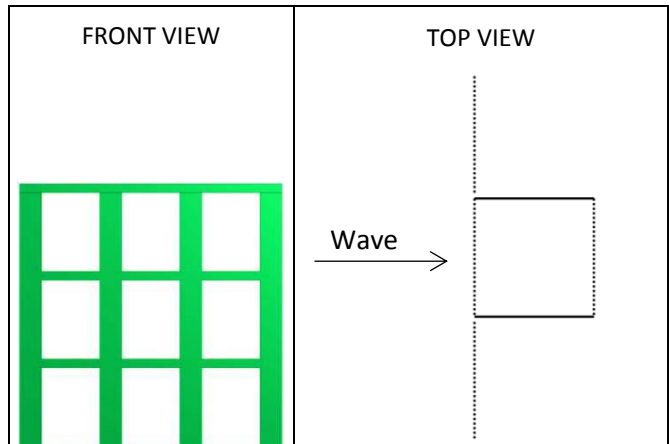


* All parameters are presented and defined at the beginning of the Appendix



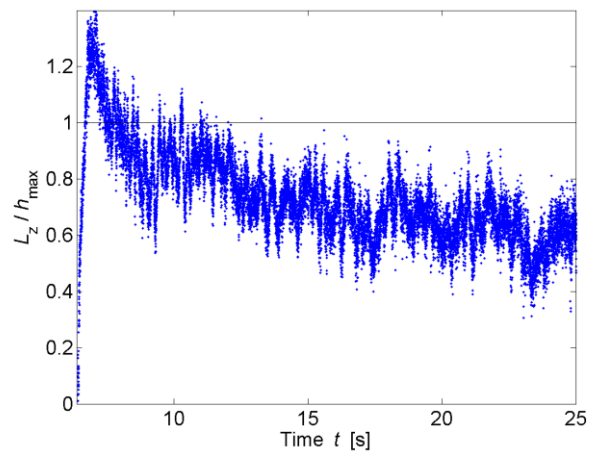
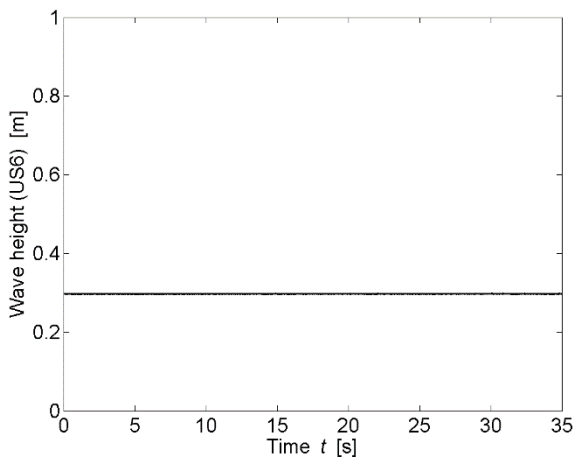
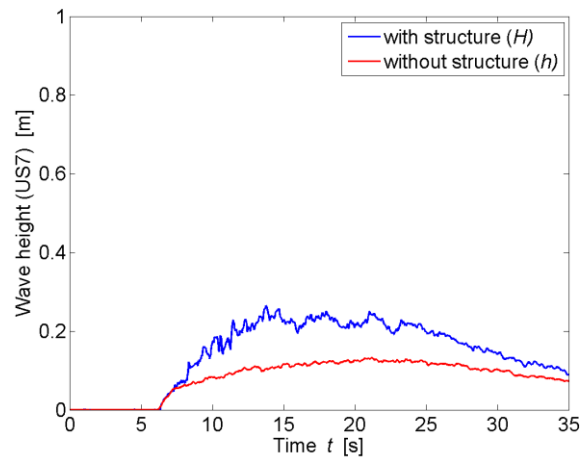
TEST PARAMETERS

Name	B60_S_WD1_1		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	61.15	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.343	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.265	[m]

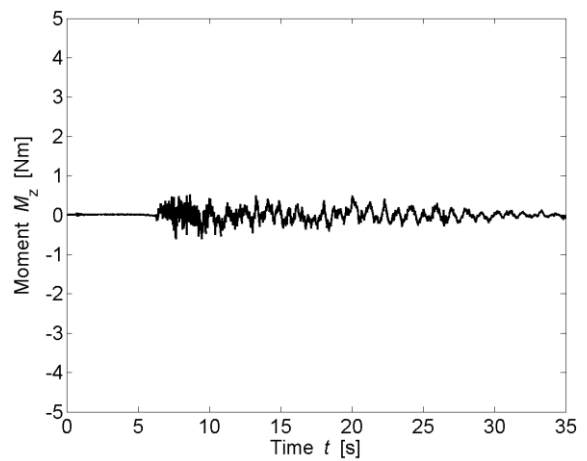
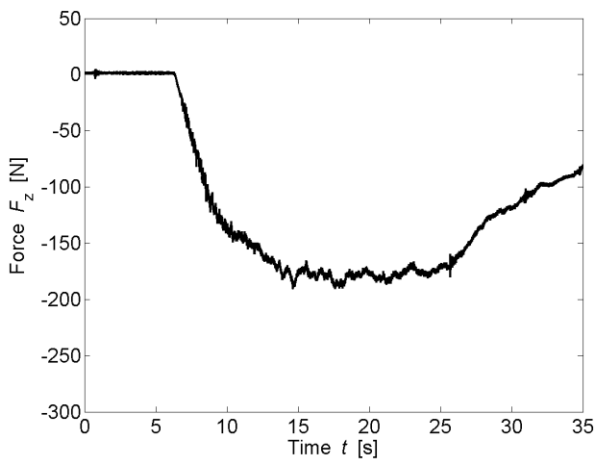
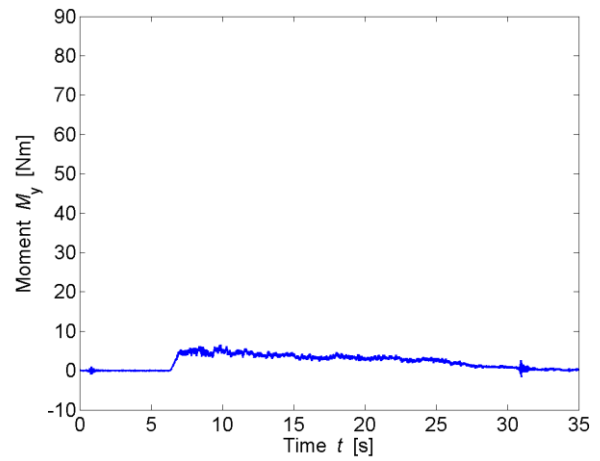
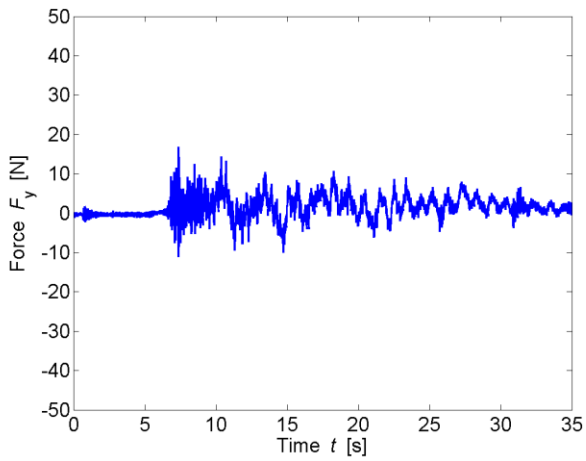
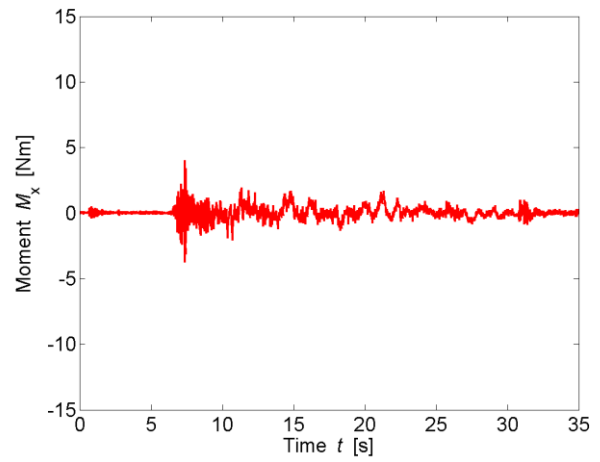
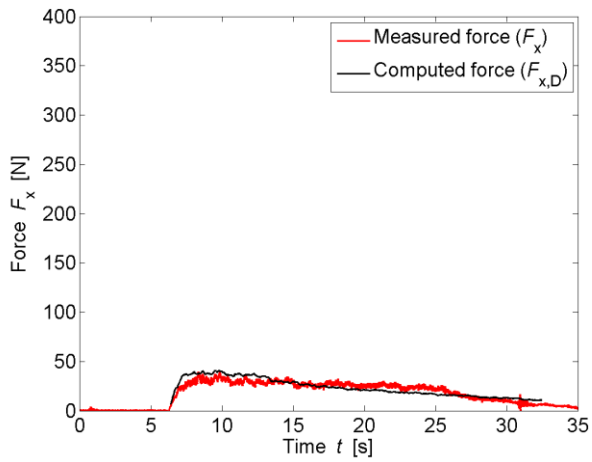


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.173	40.085	[N]
F_y	-11.106	16.817	[N]
F_z	-190.531	0.000	[N]
M_x	-3.750	4.031	[Nm]
M_y	-1.614	6.492	[Nm]
M_z	-0.604	0.520	[Nm]
Predicted Force	$F_{x,D,max}$	40.997	[N]
Initial time	t_0	6.415	[s]
Time to peak	τ_{max}	3.444	[s]
Total impulse	I_{tot}	532.201	[Ns]
Peak Impulse	I_{peak}	93.446	[Ns]
Relative impulse	I^*	0.171	[-]
Wave height at $F_{x,max}$	h_M	0.623	[-]
Resistance coefficient	C_R	0.853	[-]



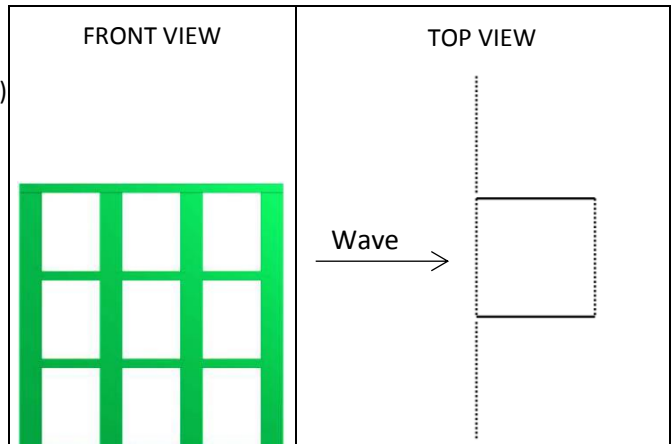
* All parameters are presented and defined at the beginning of the Appendix



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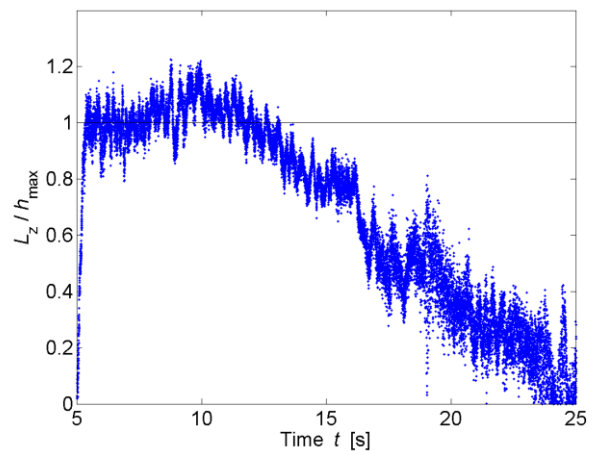
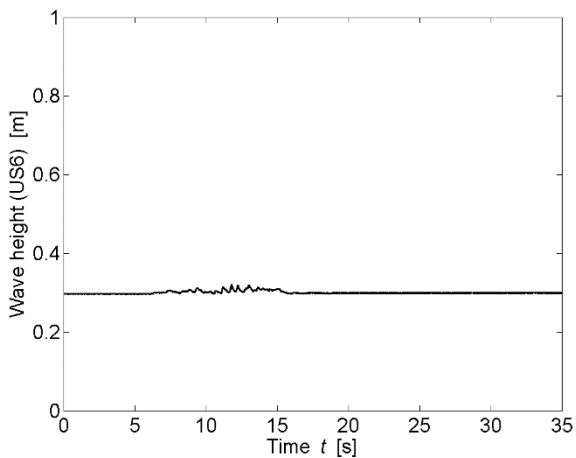
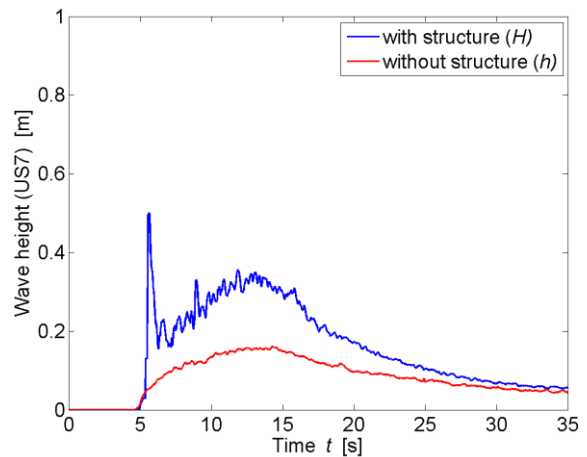
TEST PARAMETERS

Name	B60_S_WD2_ 1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.17	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.088	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.501	[m]

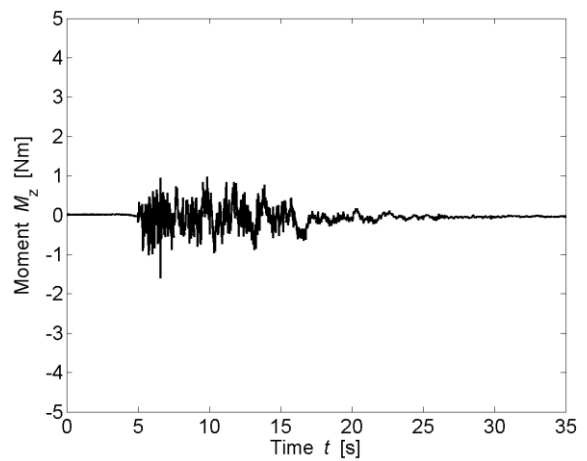
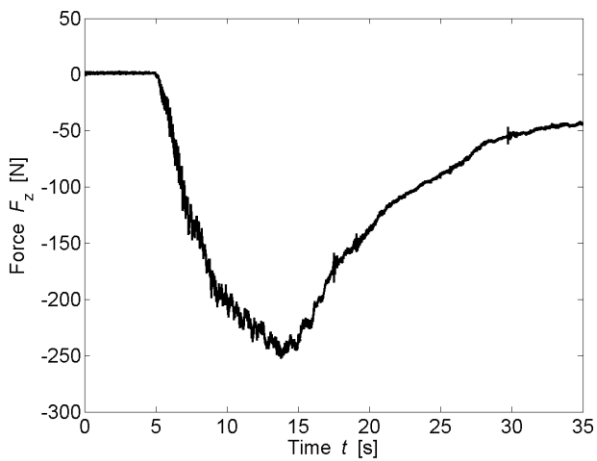
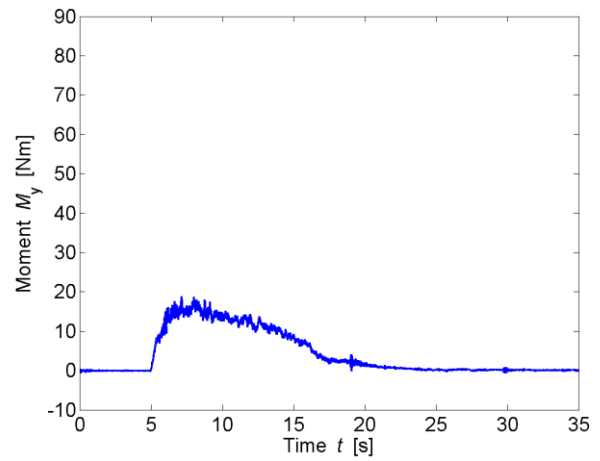
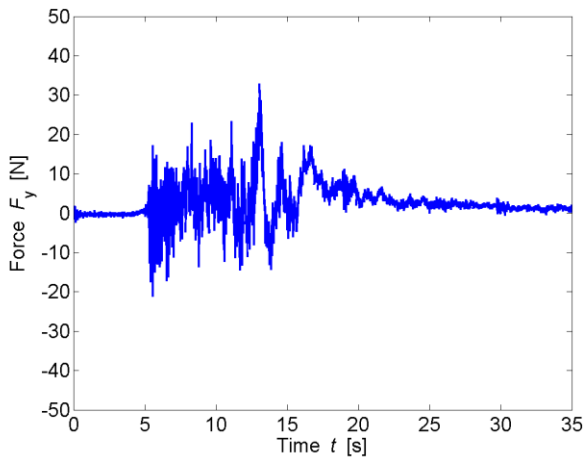
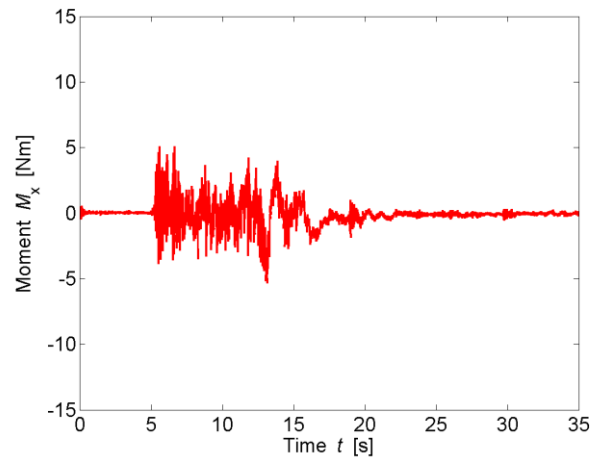
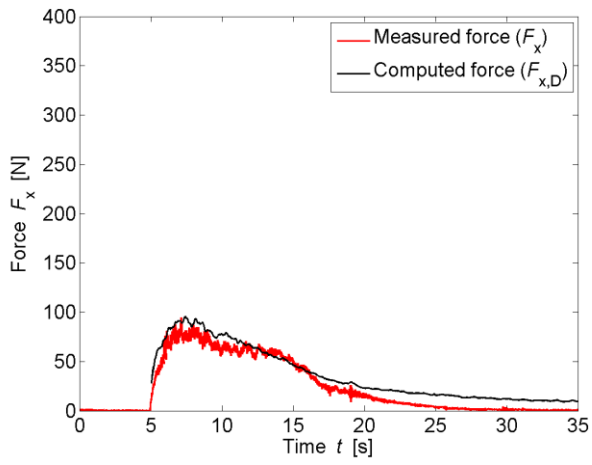


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.504	94.497	[N]
F_y	-21.140	32.846	[N]
F_z	-252.756	0.734	[N]
M_x	-5.314	5.089	[Nm]
M_y	-1.334	18.794	[Nm]
M_z	-1.607	0.969	[Nm]
Predicted Force	$F_{x,D,max}$	96.002	[N]
Initial time	t_0	5.029	[s]
Time to peak	τ_{max}	2.123	[s]
Total impulse	I_{tot}	817.431	[Ns]
Peak Impulse	I_{peak}	123.056	[Ns]
Relative impulse	I^*	0.156	[-]
Wave height at $F_{x,max}$	h_M	0.596	[-]
Resistance coefficient	C_R	0.875	[-]

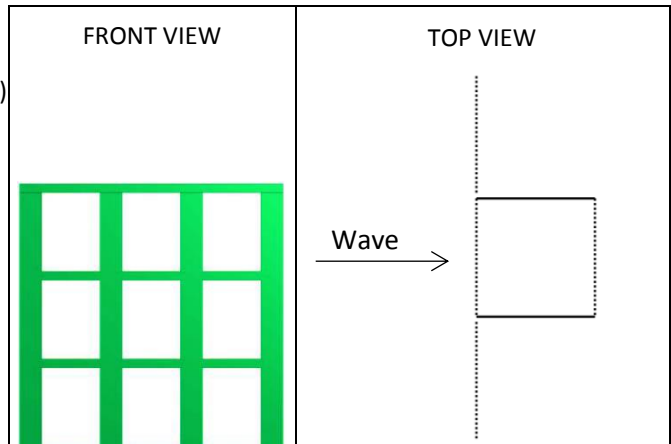


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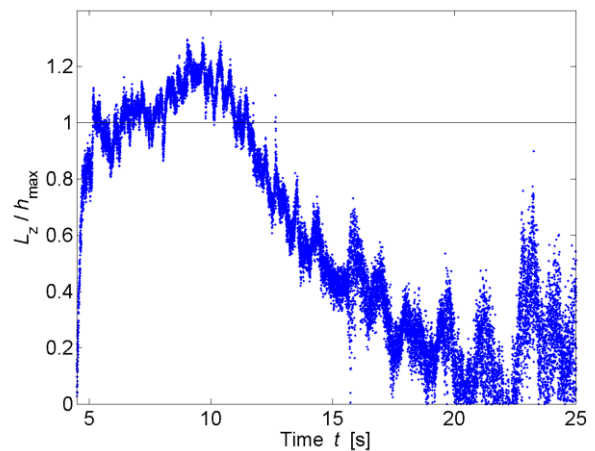
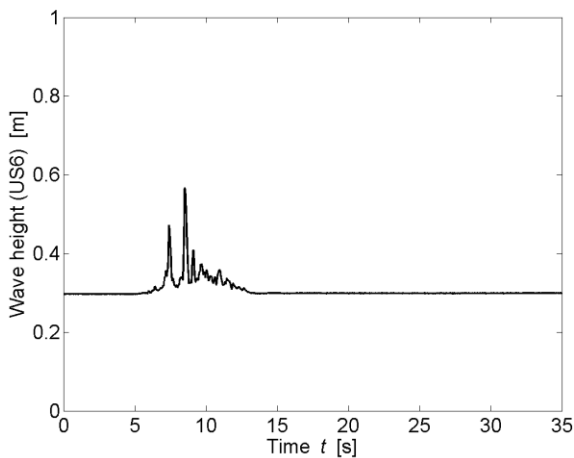
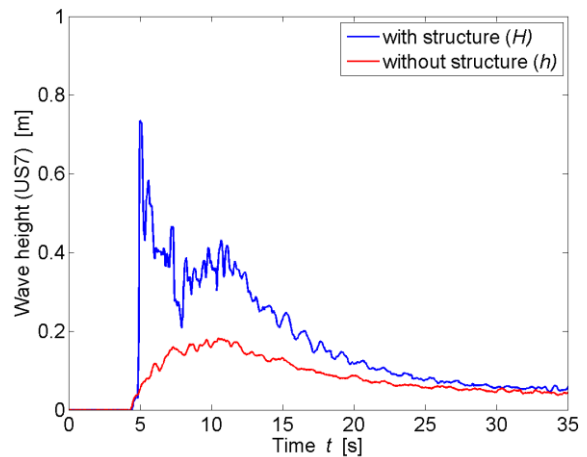
TEST PARAMETERS

Name	B60_S_WD3_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.87	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.561	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.735	[m]

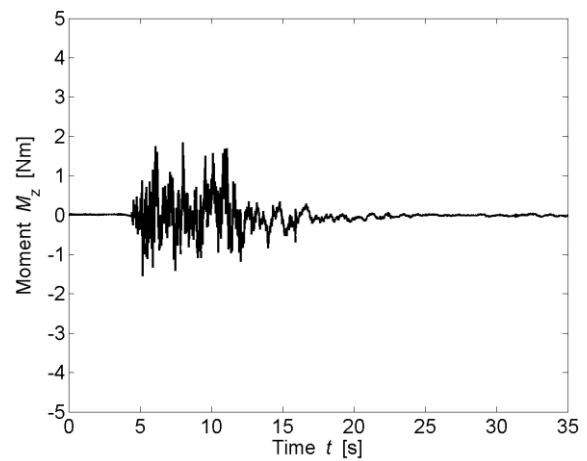
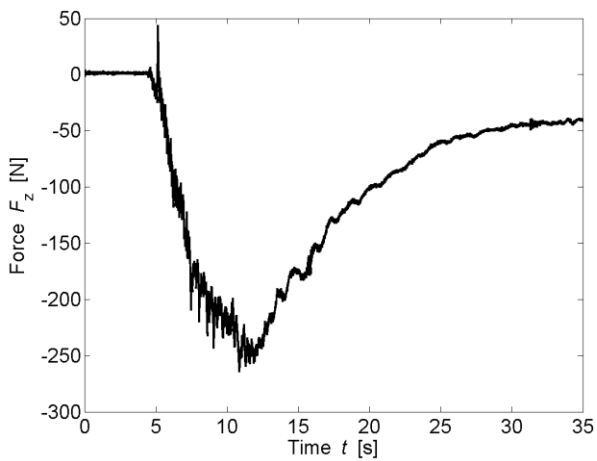
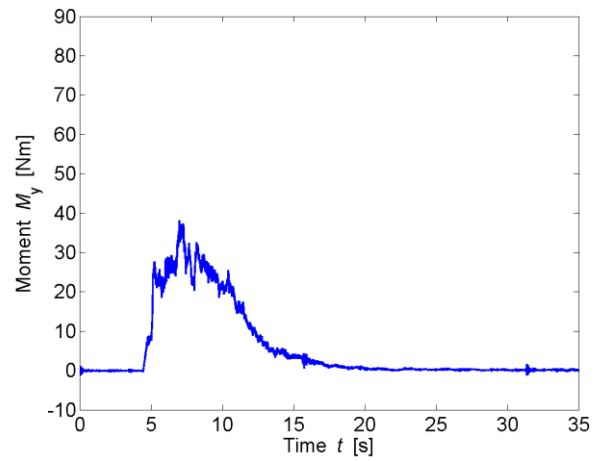
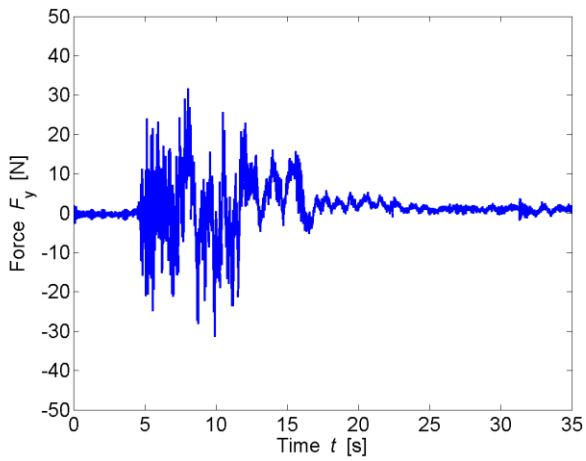
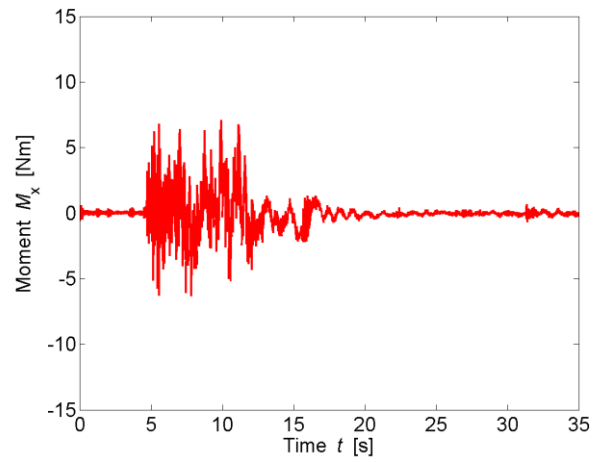
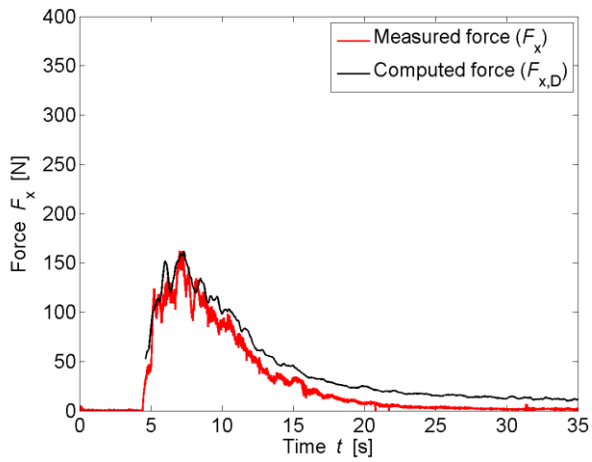


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.964	162.312	[N]
F_y	-31.394	31.696	[N]
F_z	-264.563	43.935	[N]
M_x	-6.330	7.087	[Nm]
M_y	-1.305	38.186	[Nm]
M_z	-1.543	1.842	[Nm]
Predicted Force	$F_{x,D,max}$	162.084	[N]
Initial time	t_0	4.522	[s]
Time to peak	τ_{max}	2.525	[s]
Total impulse	I_{tot}	970.348	[Ns]
Peak Impulse	I_{peak}	249.632	[Ns]
Relative impulse	I^*	0.271	[-]
Wave height at $F_{x,max}$	h_M	0.807	[-]
Resistance coefficient	C_R	0.877	[-]

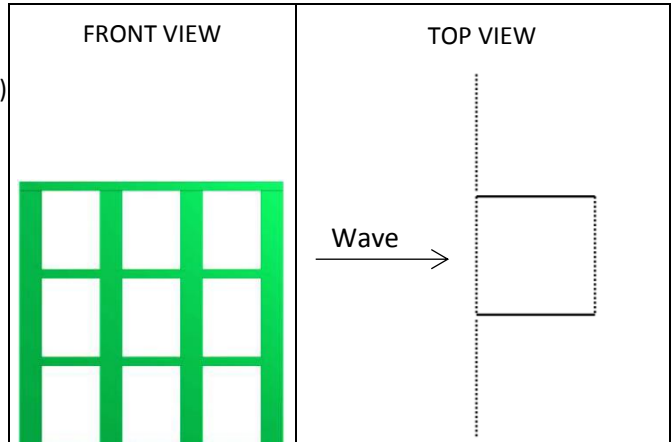


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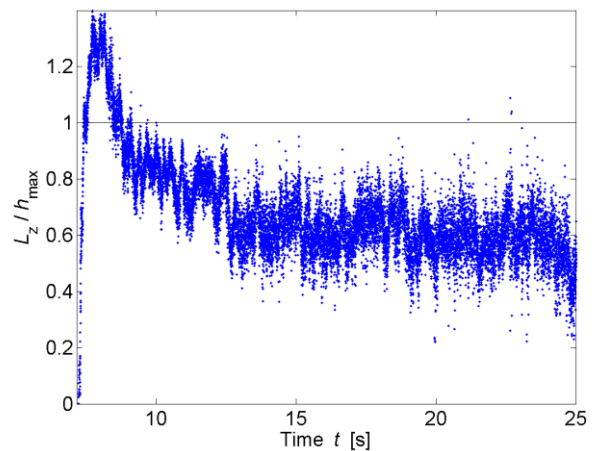
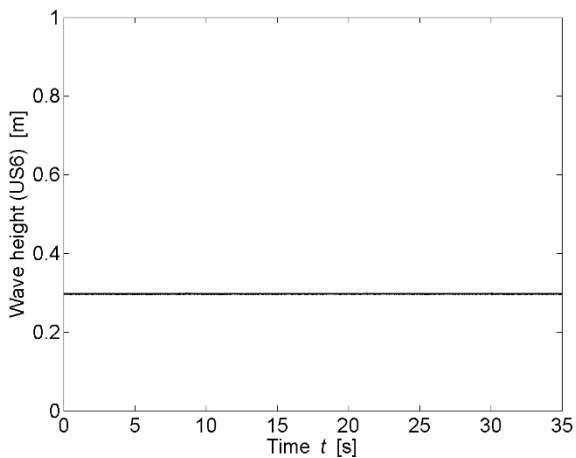
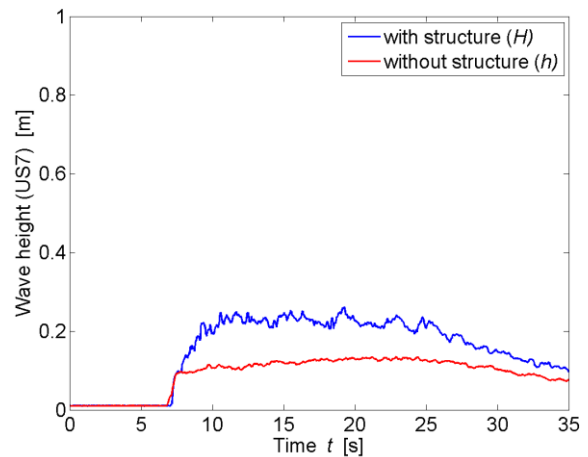
TEST PARAMETERS

Name	B60_S_WW1_1P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	61.22	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.124	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.261	[m]

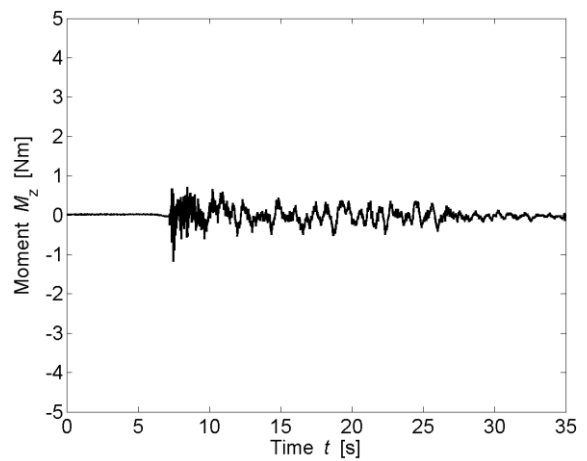
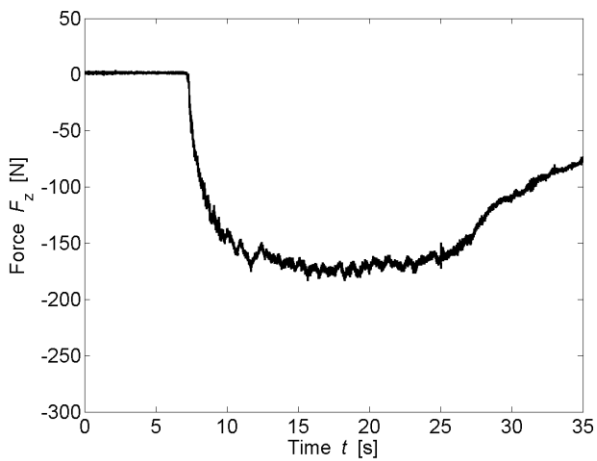
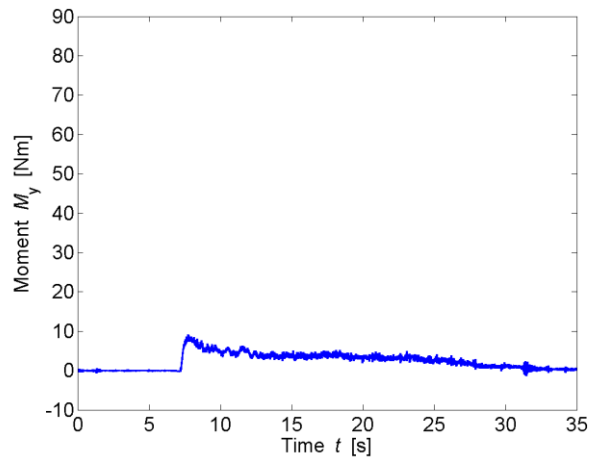
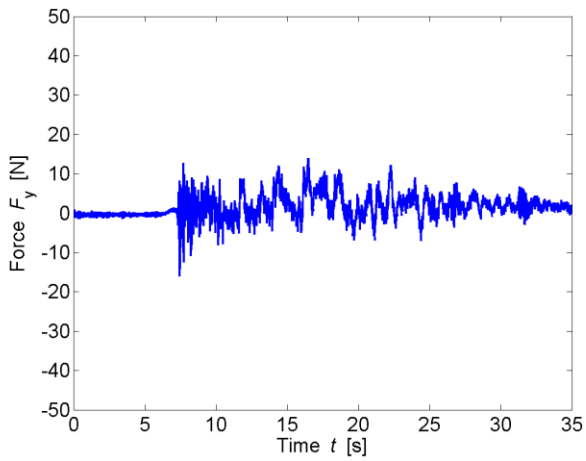
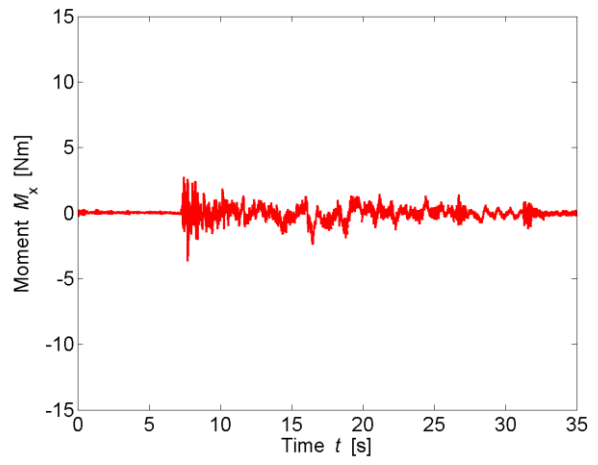
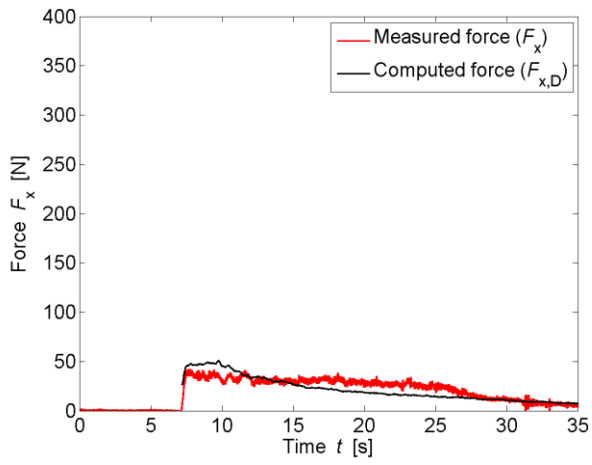


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.173	42.408	[N]
F_y	-16.001	14.002	[N]
F_z	-183.503	1.109	[N]
M_x	-3.664	2.777	[Nm]
M_y	-1.384	9.158	[Nm]
M_z	-1.172	0.718	[Nm]
Predicted Force	$F_{x,D,max}$	50.955	[N]
Initial time	t_0	7.196	[s]
Time to peak	τ_{max}	0.598	[s]
Total impulse	I_{tot}	591.290	[Ns]
Peak Impulse	I_{peak}	18.460	[Ns]
Relative impulse	I^*	0.030	[-]
Wave height at $F_{x,max}$	h_M	0.715	[-]
Resistance coefficient	C_R	0.714	[-]

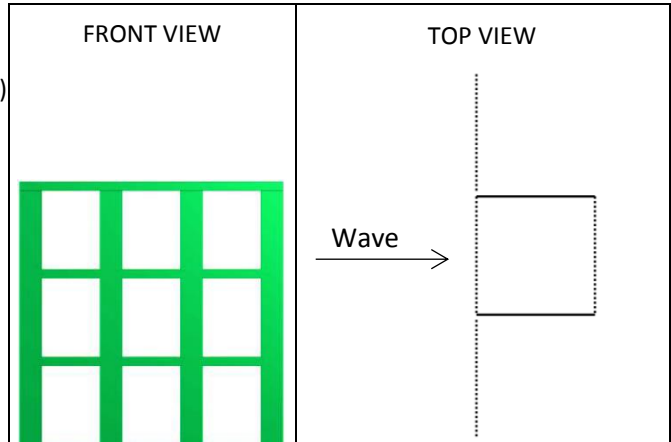


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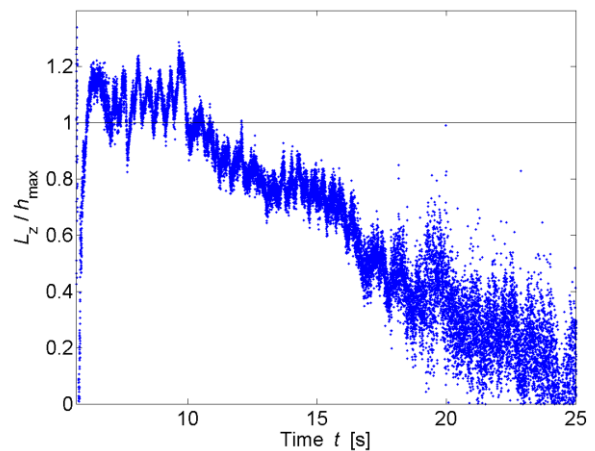
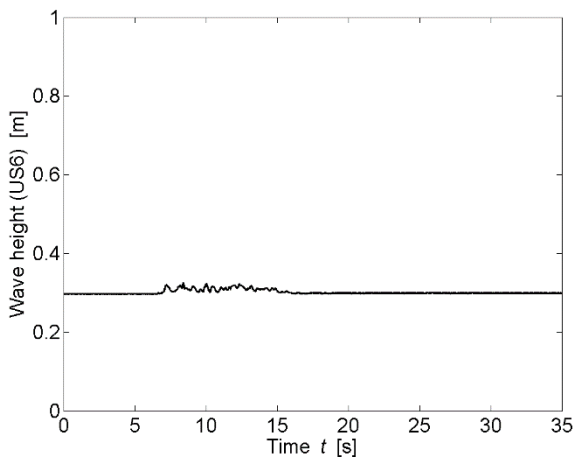
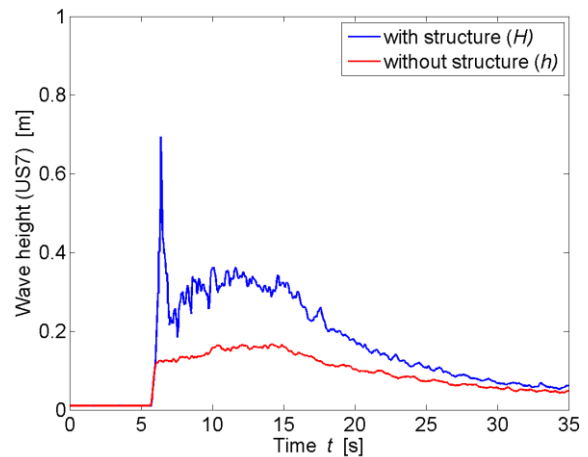
TEST PARAMETERS

Name	B60_S_WW1_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.38	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.675	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.694	[m]

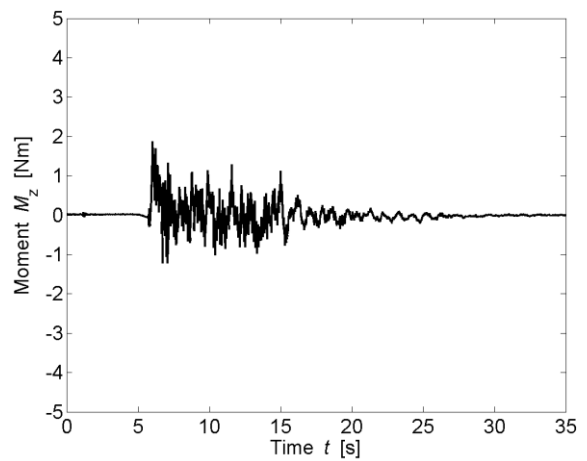
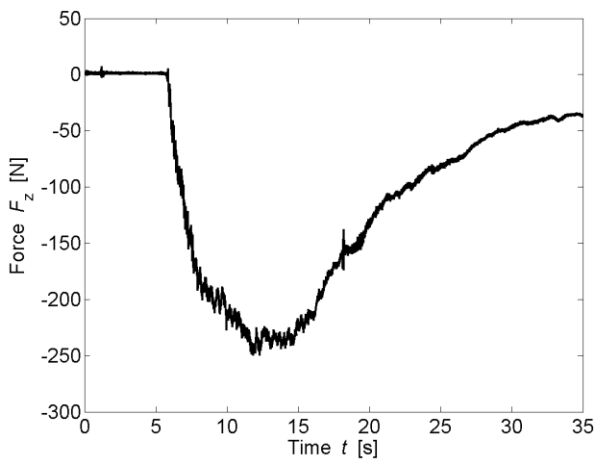
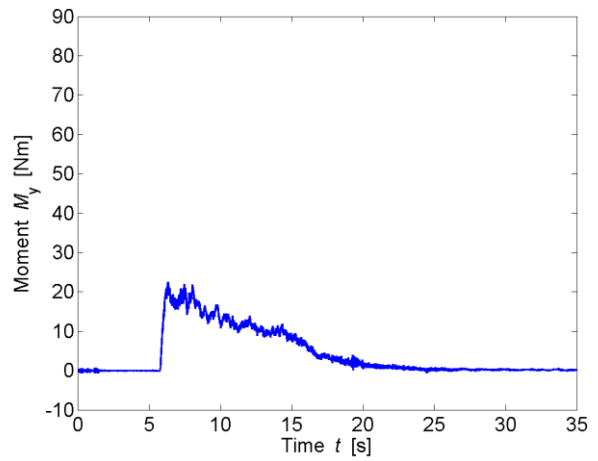
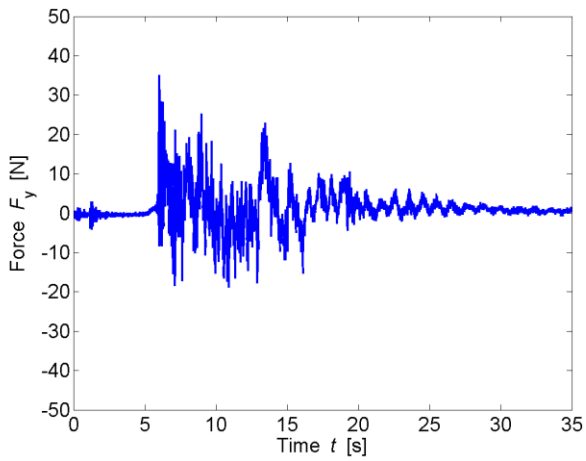
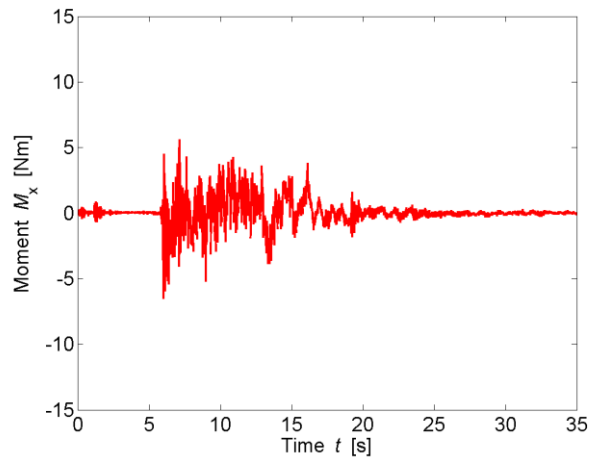
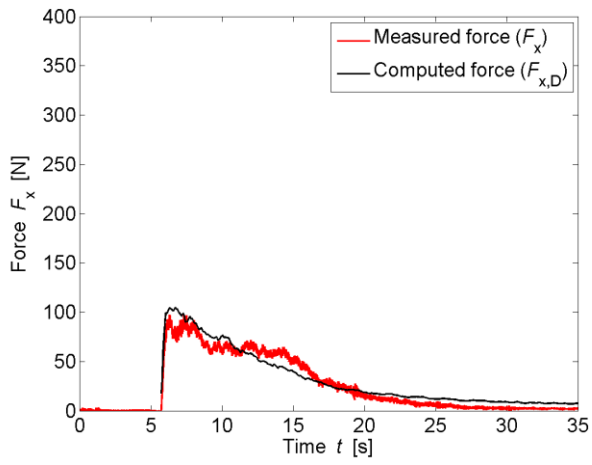


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.173	97.182	[N]
F_y	-18.913	35.073	[N]
F_z	-249.851	5.513	[N]
M_x	-6.533	5.602	[Nm]
M_y	-0.915	22.556	[Nm]
M_z	-1.220	1.873	[Nm]
Predicted Force	$F_{x,D,max}$	105.109	[N]
Initial time	t_0	5.754	[s]
Time to peak	τ_{max}	0.546	[s]
Total impulse	I_{tot}	841.903	[Ns]
Peak Impulse	I_{peak}	33.957	[Ns]
Relative impulse	I^*	0.042	[-]
Wave height at $F_{x,max}$	h_M	0.747	[-]
Resistance coefficient	C_R	0.769	[-]



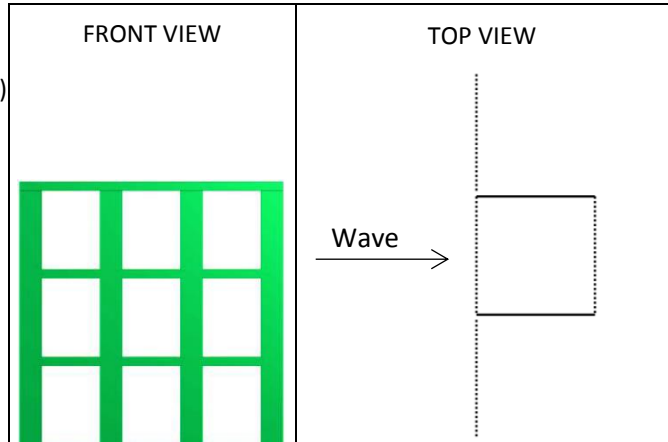
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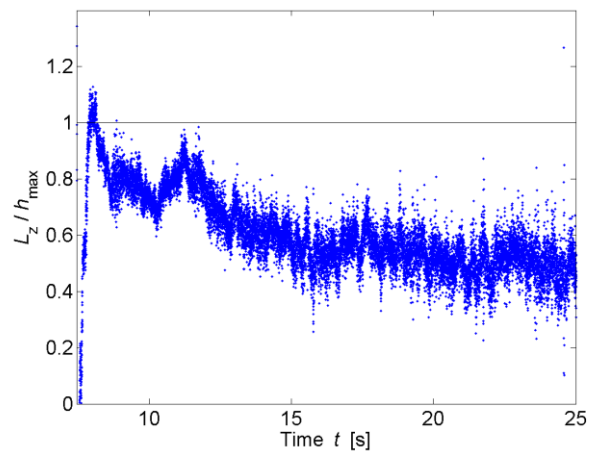
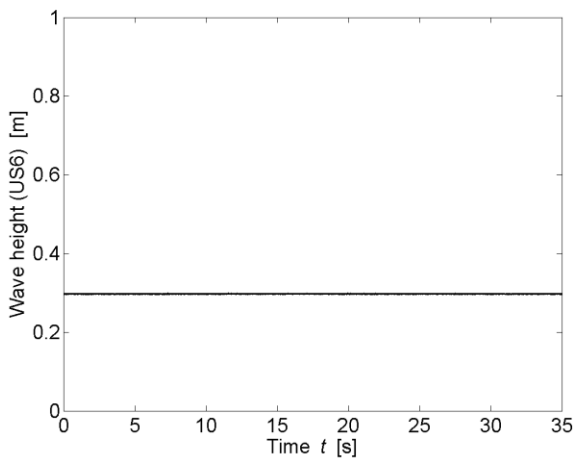
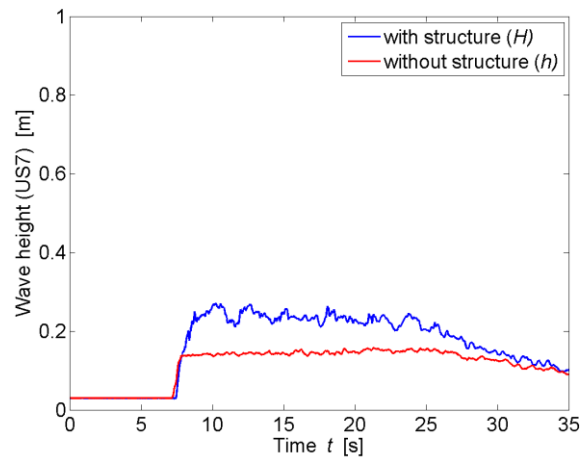
TEST PARAMETERS

Name	B60_S_WW3_1P_1		
Repetitions	2		
Configuration	With side building (S)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	62.07	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.961	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.265	[m]

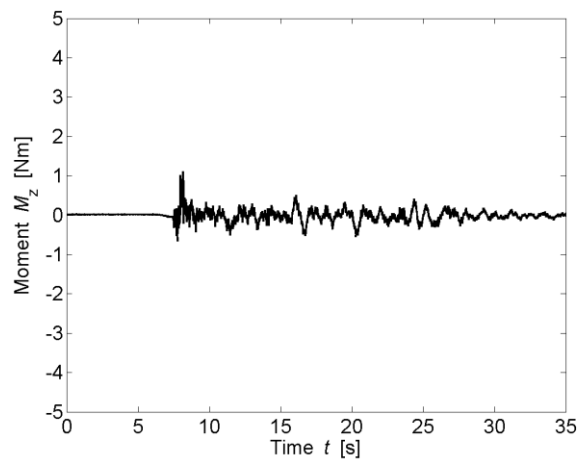
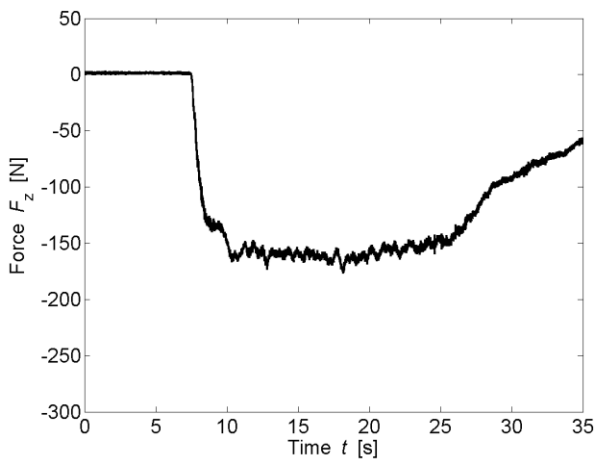
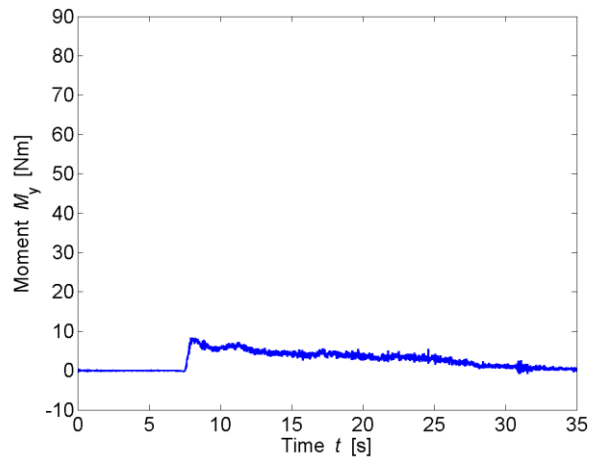
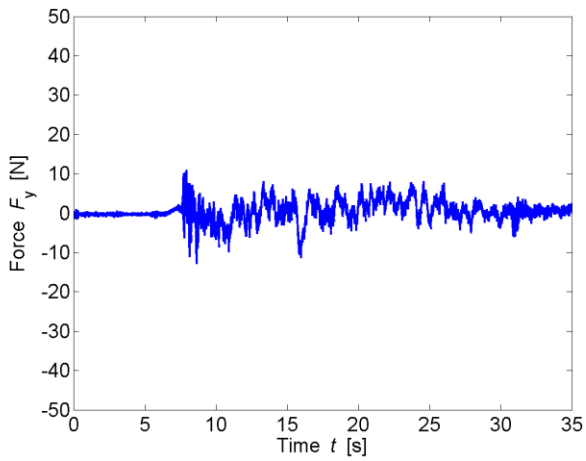
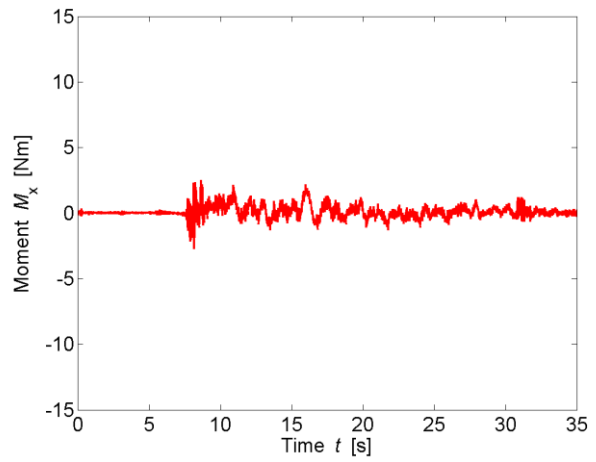
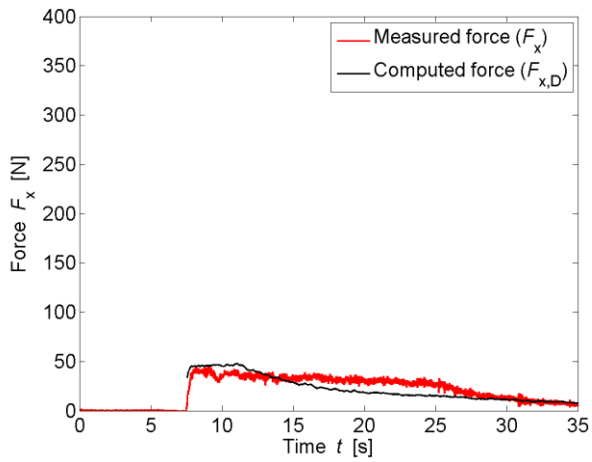


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.706	44.706	[N]
F_y	-12.942	10.943	[N]
F_z	-176.943	0.265	[N]
M_x	-2.716	2.509	[Nm]
M_y	-1.106	8.305	[Nm]
M_z	-0.658	1.112	[Nm]
Predicted Force	$F_{x,D,max}$	48.041	[N]
Initial time	t_0	7.505	[s]
Time to peak	τ_{max}	0.906	[s]
Total impulse	I_{tot}	631.801	[Ns]
Peak Impulse	I_{peak}	29.894	[Ns]
Relative impulse	I^*	0.047	[-]
Wave height at $F_{x,max}$	h_M	0.871	[-]
Resistance coefficient	C_R	0.844	[-]

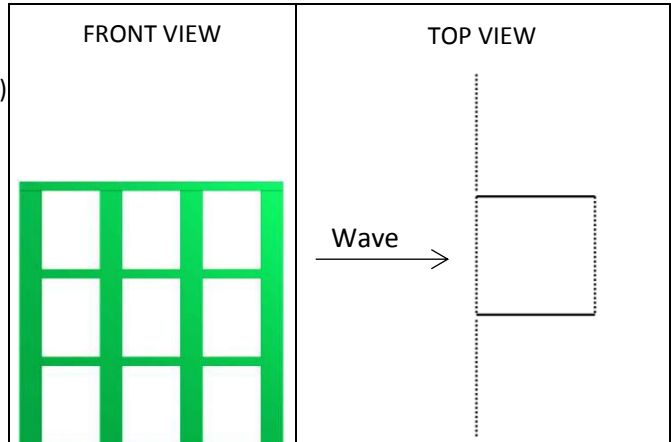


* All parameters are presented and defined at the beginning of the Appendix



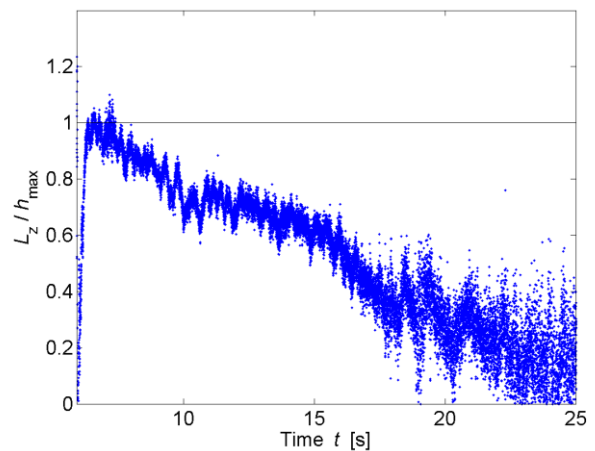
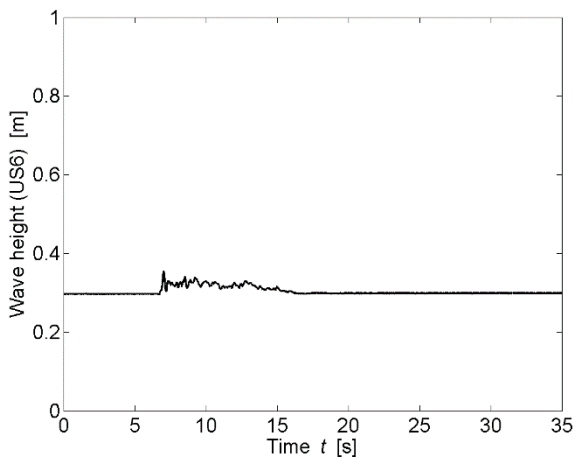
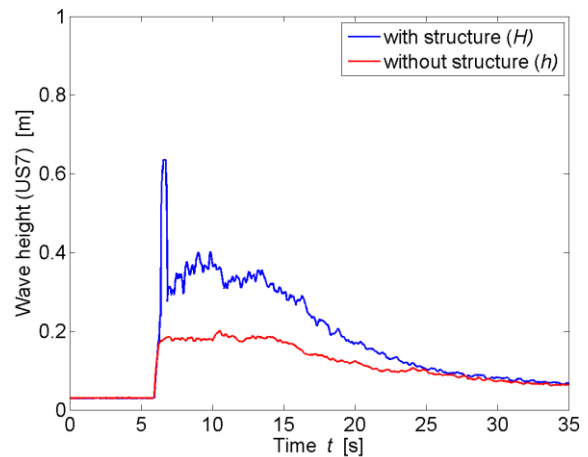
TEST PARAMETERS

Name	B60_S_WW3_2P_1		
Repetitions	1		
Configuration	With side building (S)		
Total porosity	P_{tot}	60	[%]
Porosity at h_{max}	$P_{h,max}$	60.03	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.481	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.481	[m]

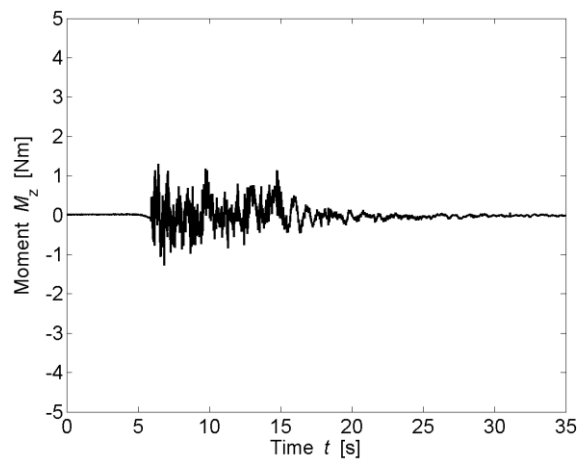
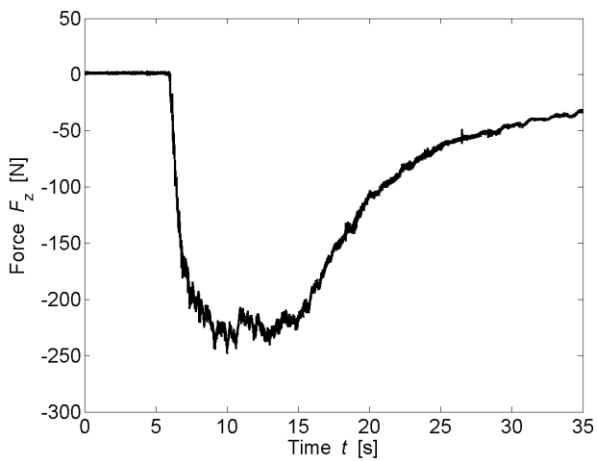
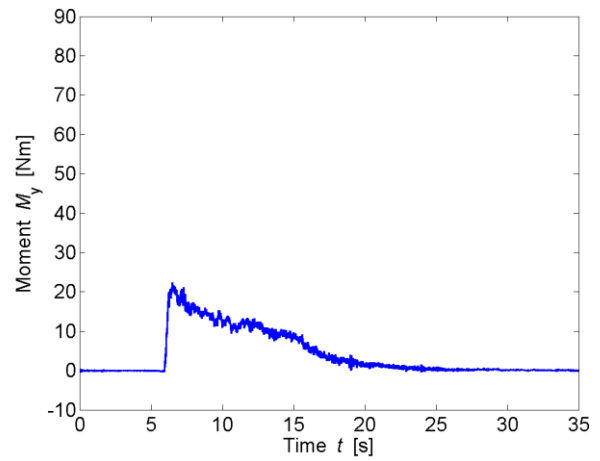
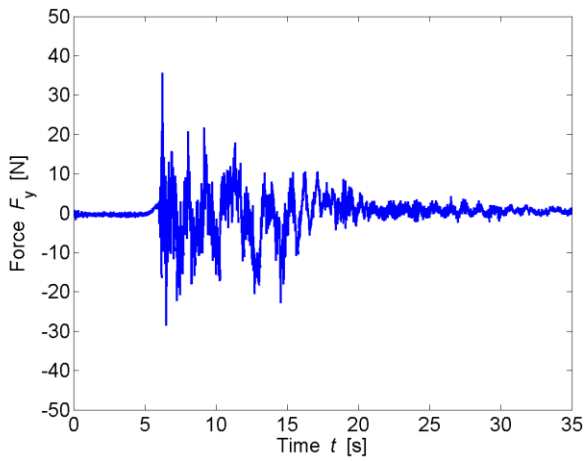
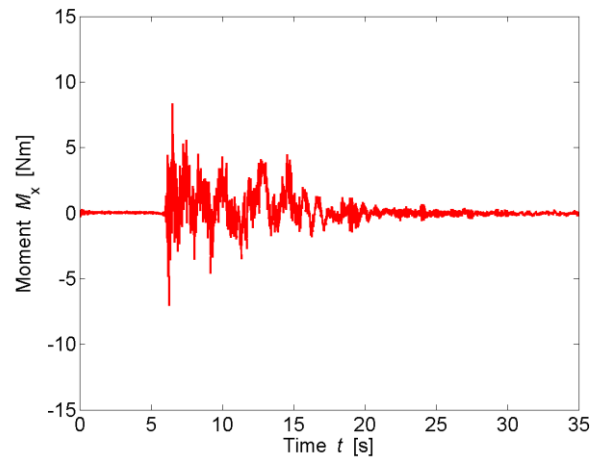
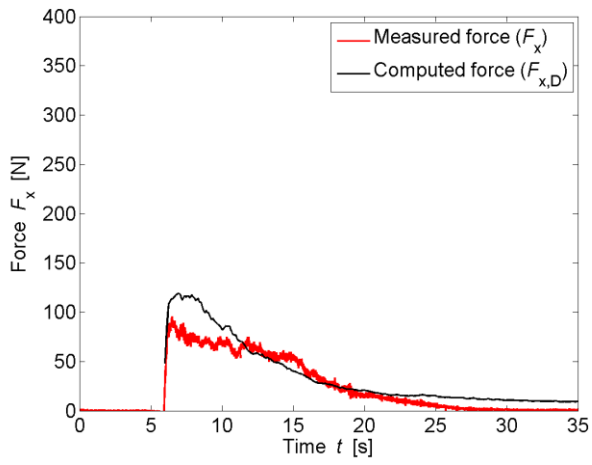


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-2.133	95.537	[N]
F_y	-28.579	35.611	[N]
F_z	-248.164	0.921	[N]
M_x	-7.054	8.343	[Nm]
M_y	-0.719	22.313	[Nm]
M_z	-1.278	1.299	[Nm]
Predicted Force	$F_{x,D,max}$	119.485	[N]
Initial time	t_0	5.957	[s]
Time to peak	τ_{max}	0.556	[s]
Total impulse	I_{tot}	813.917	[Ns]
Peak Impulse	I_{peak}	37.991	[Ns]
Relative impulse	I^*	0.048	[-]
Wave height at $F_{x,max}$	h_M	0.883	[-]
Resistance coefficient	C_R	0.777	[-]

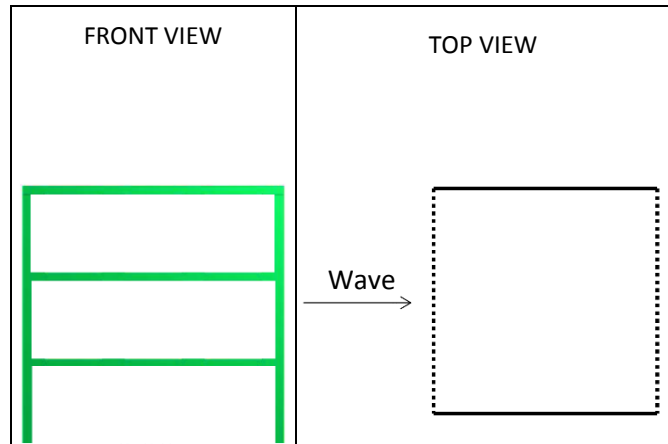


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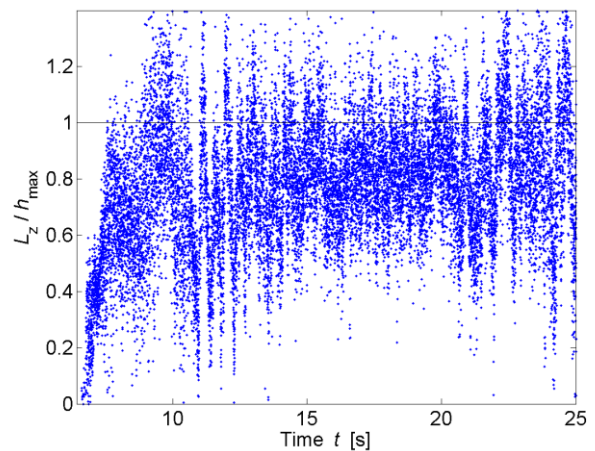
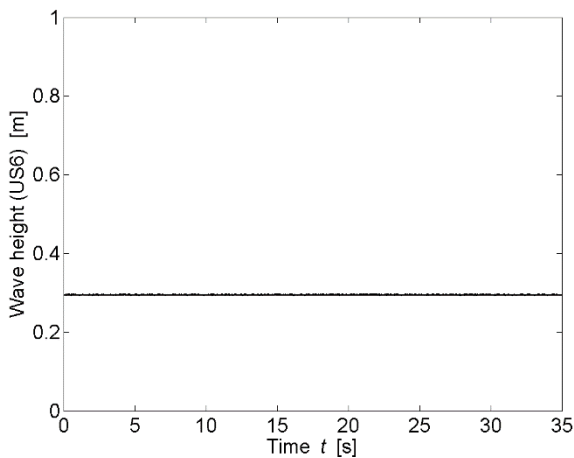
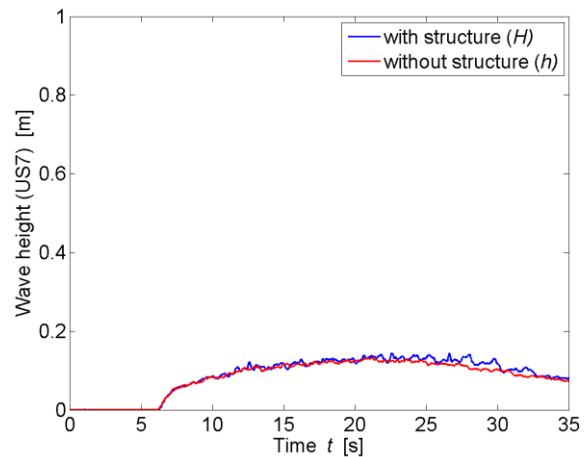
TEST PARAMETERS

Name	B84_F_WD1_2		
Repetitions	2		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	85.55	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD1)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.448	[m/s]
Maximum wave height	h_{max}	0.132	[m]
Maximum run-up height	H_{max}	0.144	[m]

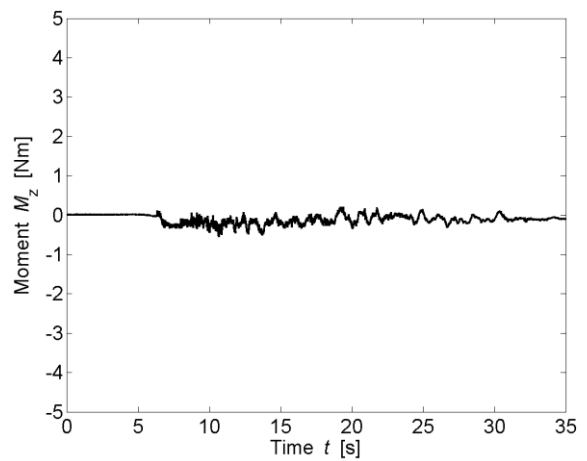
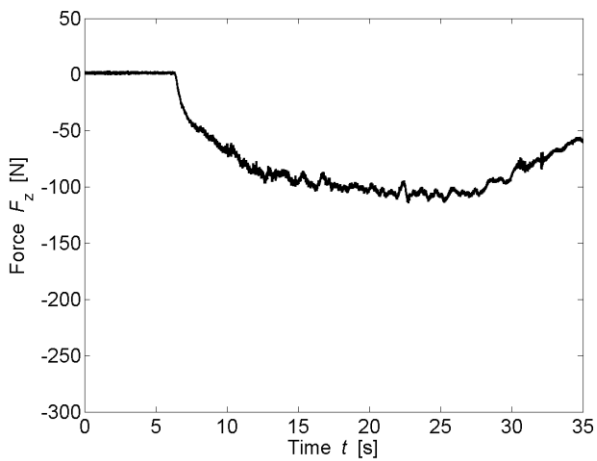
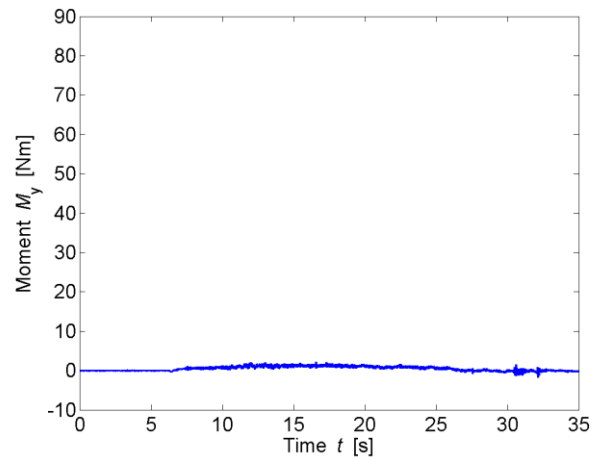
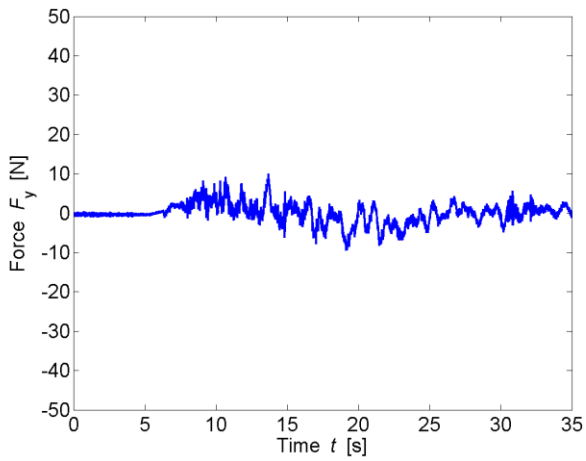
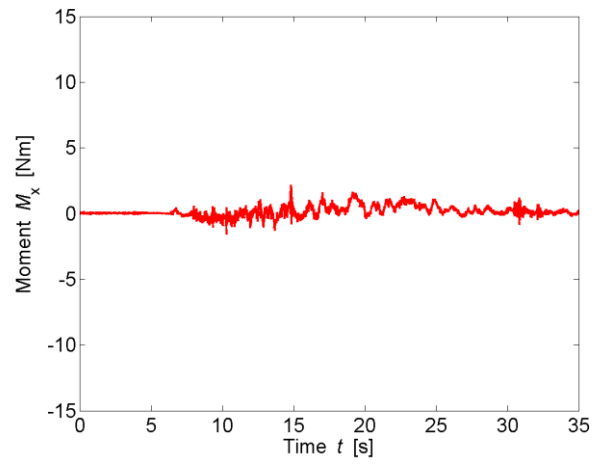
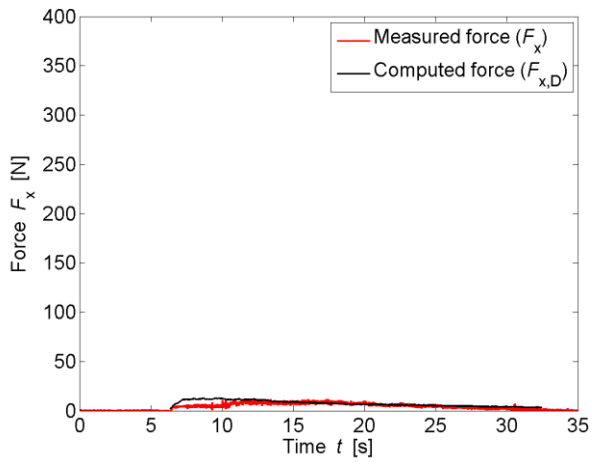


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.294	11.880	[N]
F_y	-9.494	9.976	[N]
F_z	-114.071	0.000	[N]
M_x	-1.566	2.200	[Nm]
M_y	-1.785	2.258	[Nm]
M_z	-0.550	0.207	[Nm]
Predicted Force	$F_{x,D,max}$	12.758	[N]
Initial time	t_0	6.479	[s]
Time to peak	τ_{max}	9.568	[s]
Total impulse	I_{tot}	130.801	[Ns]
Peak Impulse	I_{peak}	63.693	[Ns]
Relative impulse	I^*	0.475	[-]
Wave height at $F_{x,max}$	h_M	0.885	[-]
Resistance coefficient	C_R	0.312	[-]

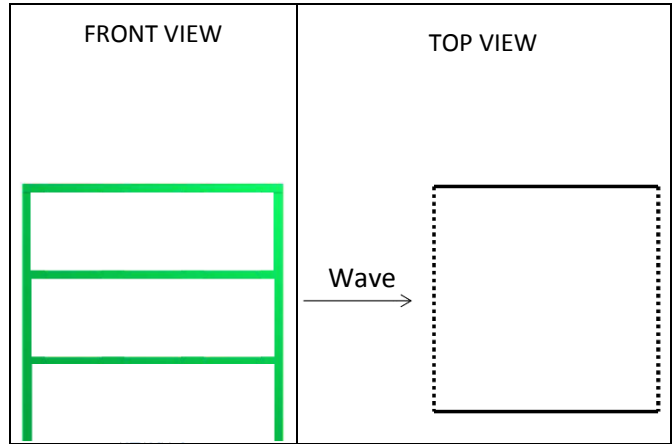


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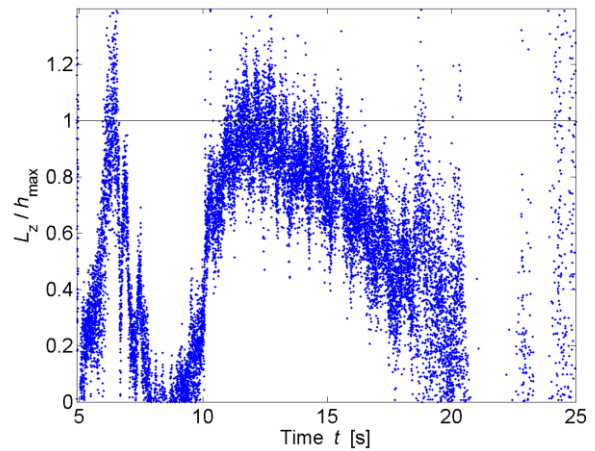
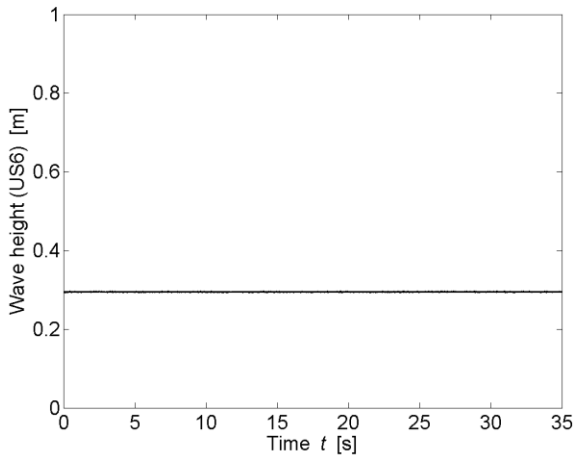
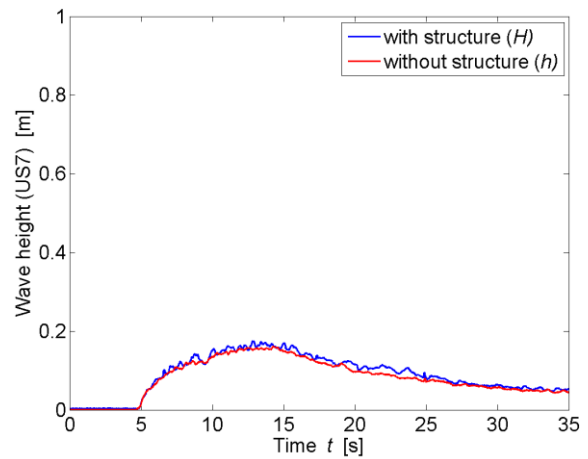
TEST PARAMETERS

Name	B84_F_WD2_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	87.01	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD2)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	2.642	[m/s]
Maximum wave height	h_{max}	0.162	[m]
Maximum run-up height	H_{max}	0.175	[m]

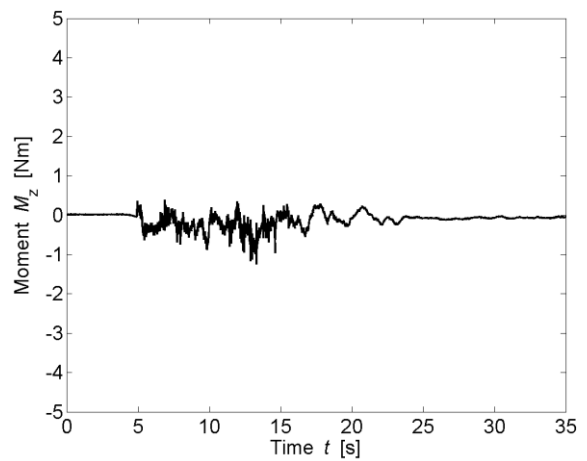
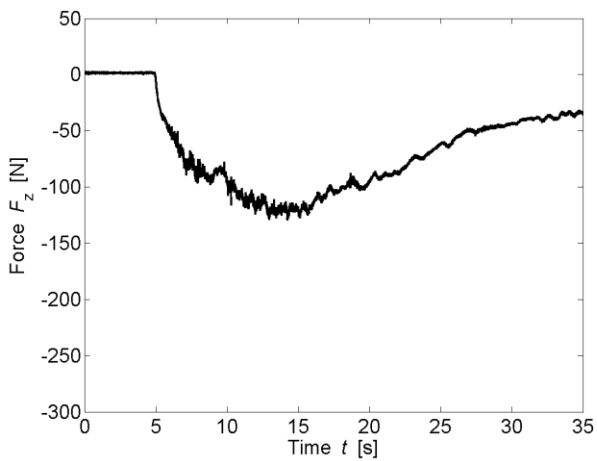
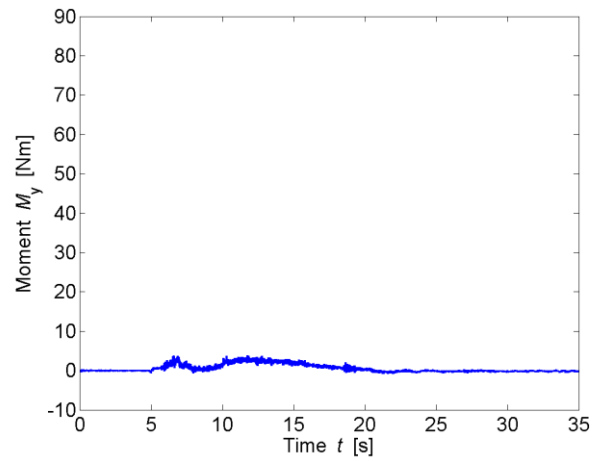
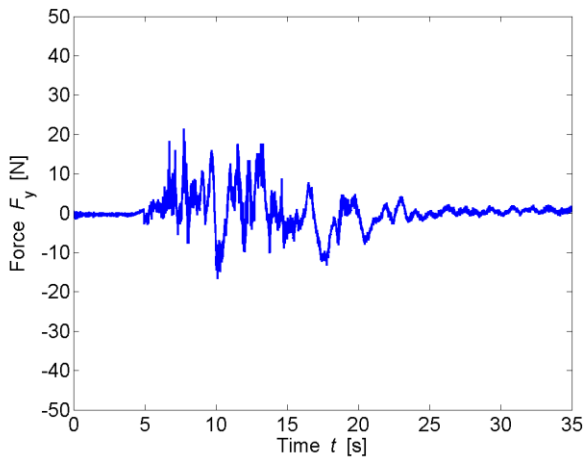
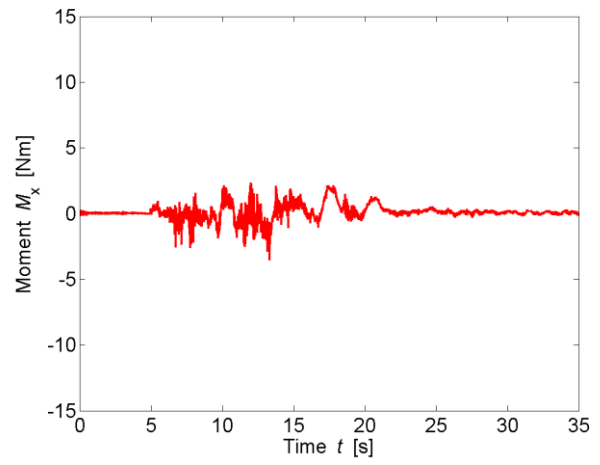
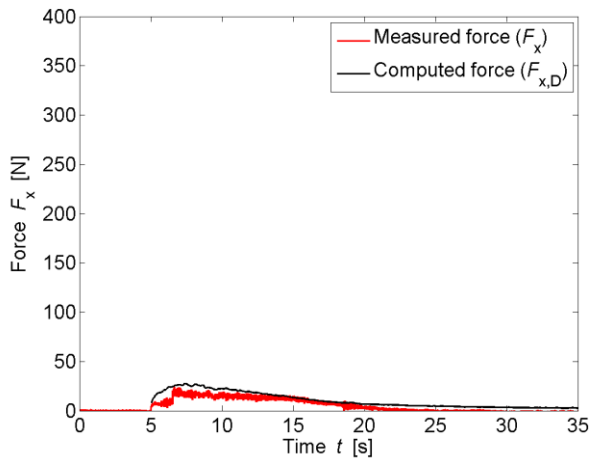


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.204	24.179	[N]
F_y	-16.670	21.462	[N]
F_z	-129.451	0.812	[N]
M_x	-3.547	2.357	[Nm]
M_y	-0.842	3.763	[Nm]
M_z	-1.243	0.384	[Nm]
Predicted Force	$F_{x,D,max}$	27.583	[N]
Initial time	t_0	4.957	[s]
Time to peak	τ_{max}	1.703	[s]
Total impulse	I_{tot}	178.683	[Ns]
Peak Impulse	I_{peak}	13.447	[Ns]
Relative impulse	I^*	0.075	[-]
Wave height at $F_{x,max}$	h_M	0.532	[-]
Resistance coefficient	C_R	0.198	[-]



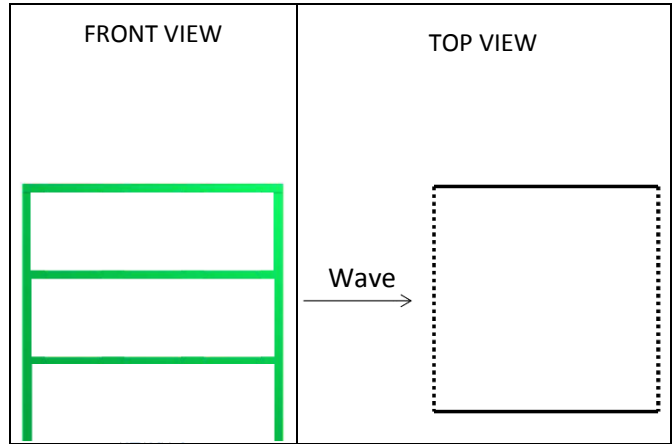
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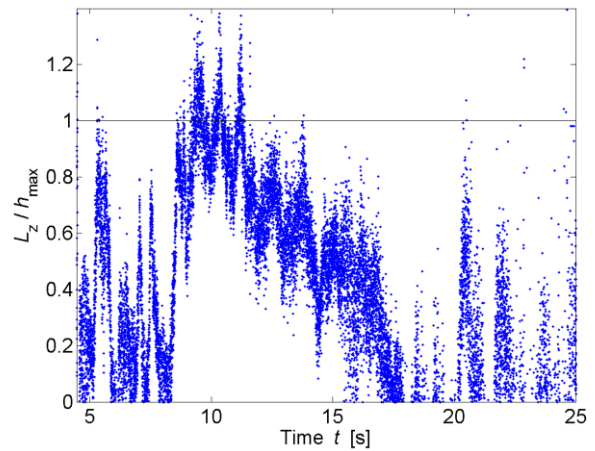
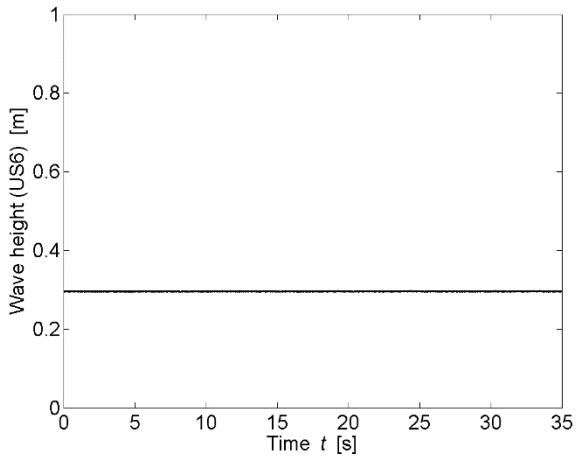
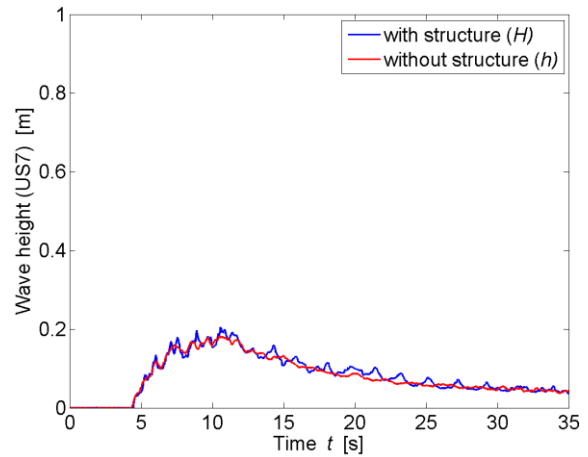
TEST PARAMETERS

Name	B84_F_WD3_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	88.03	[%]
Building height	H_B	0.3	[m]
Wave type	Surge (WD3)		
Impoundment depth	d_0	0.820	[m]
Initial still water depth	h_0	0.000	[m]
Front celerity	U	3.386	[m/s]
Maximum wave height	h_{max}	0.181	[m]
Maximum run-up height	H_{max}	0.205	[m]

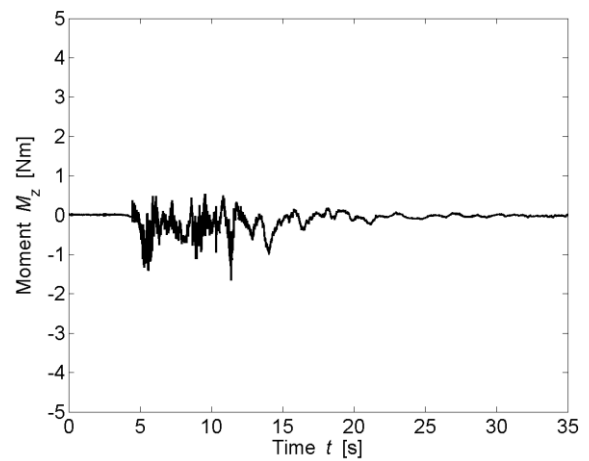
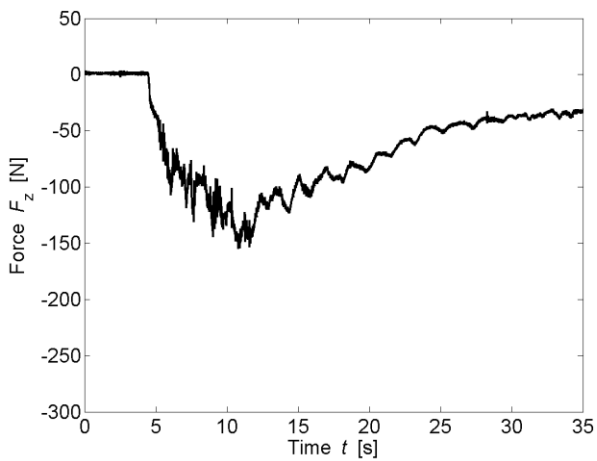
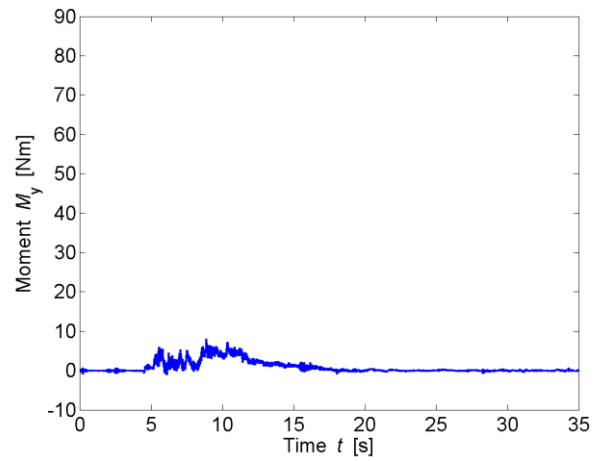
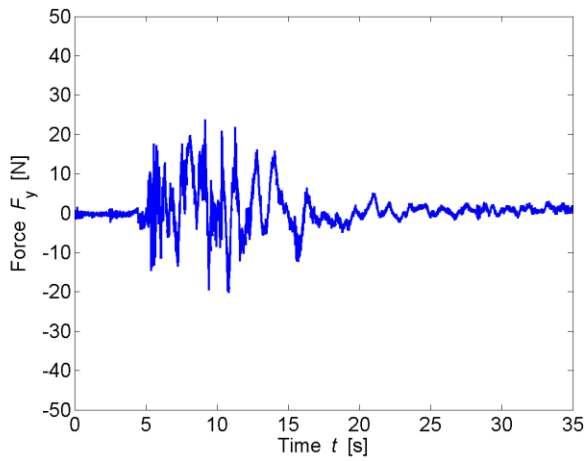
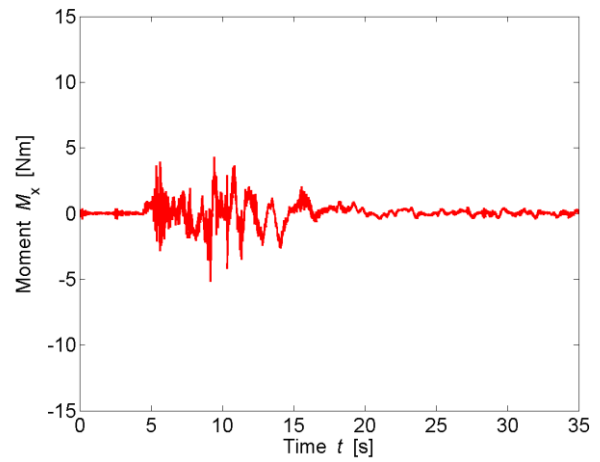
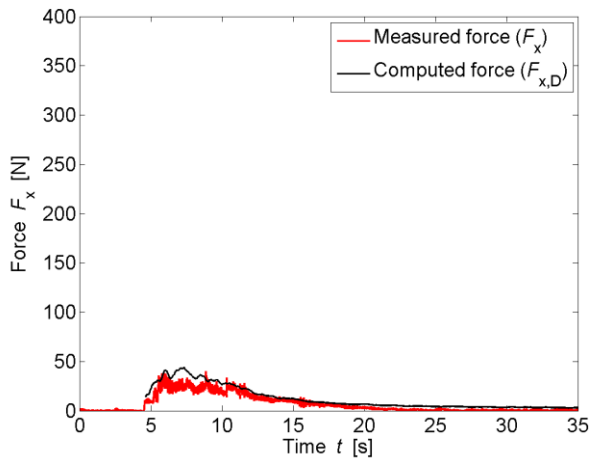


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.132	40.038	[N]
F_y	-20.270	23.813	[N]
F_z	-154.679	0.000	[N]
M_x	-5.162	4.297	[Nm]
M_y	-1.012	8.055	[Nm]
M_z	-1.660	0.544	[Nm]
Predicted Force	$F_{x,D,max}$	43.723	[N]
Initial time	t_0	4.507	[s]
Time to peak	τ_{max}	4.375	[s]
Total impulse	I_{tot}	240.484	[Ns]
Peak Impulse	I_{peak}	95.885	[Ns]
Relative impulse	I^*	0.425	[-]
Wave height at $F_{x,max}$	h_M	0.845	[-]
Resistance coefficient	C_R	0.209	[-]



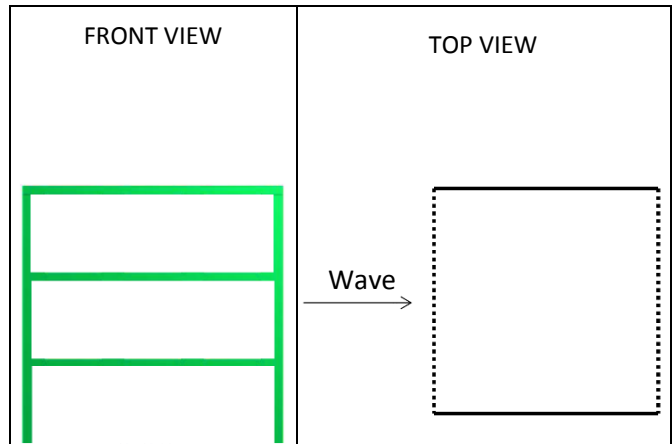
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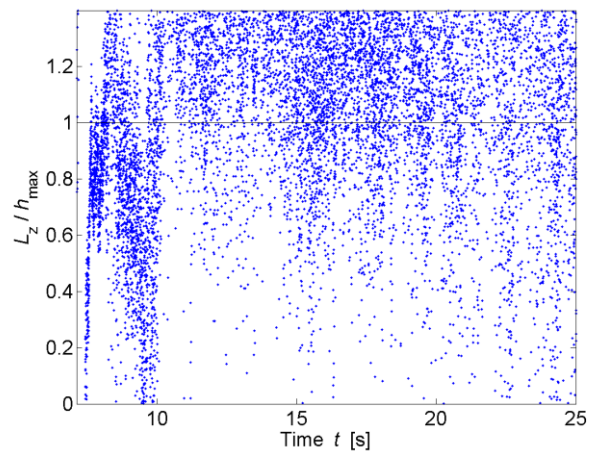
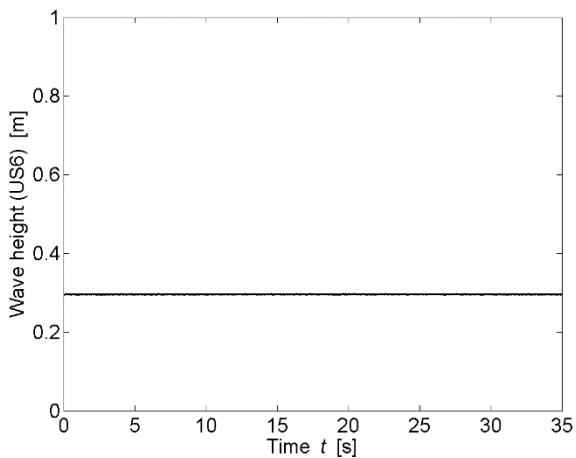
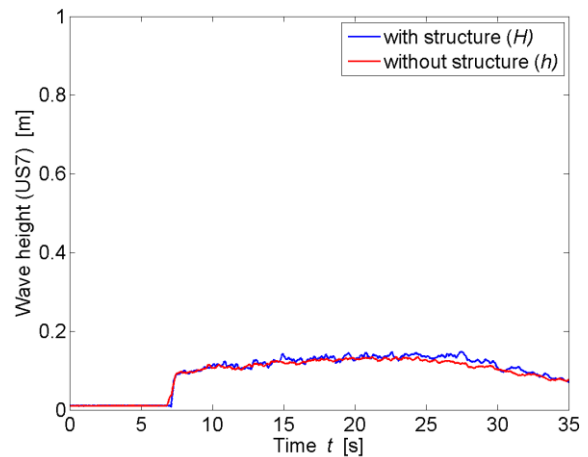
TEST PARAMETERS

Name	B84_F_WW1_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	85.80	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.098	[m/s]
Maximum wave height	h_{max}	0.135	[m]
Maximum run-up height	H_{max}	0.149	[m]

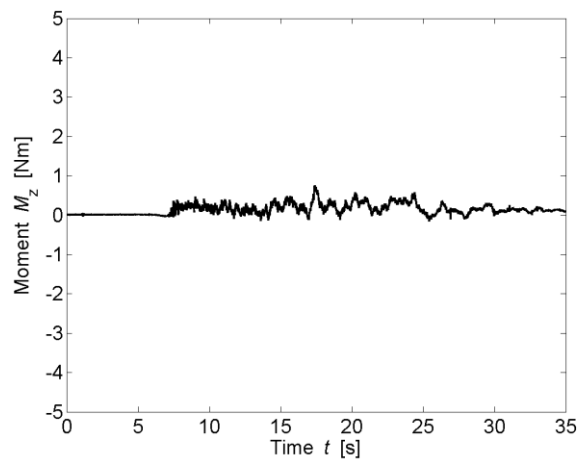
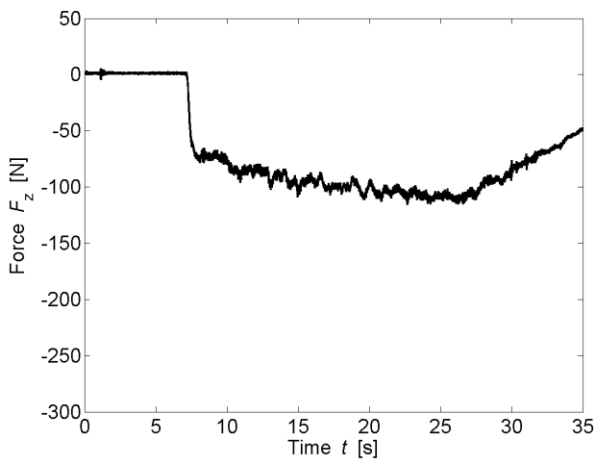
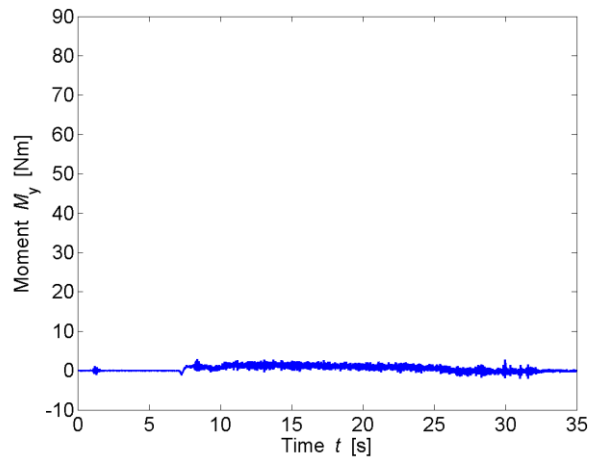
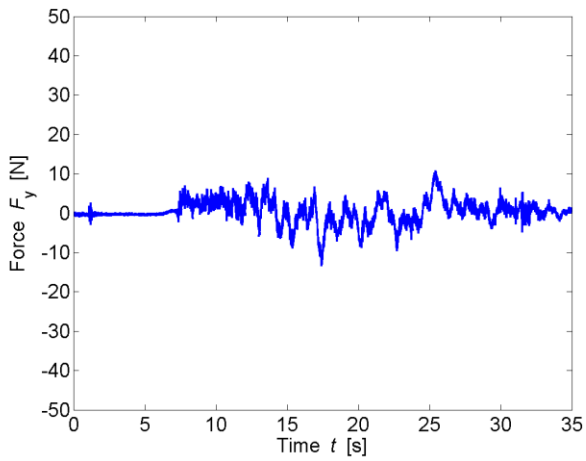
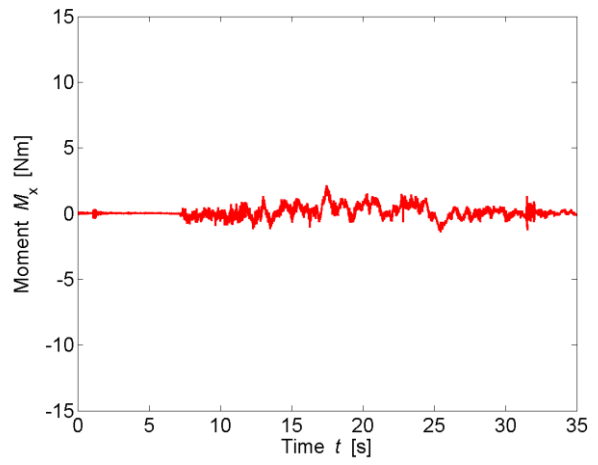
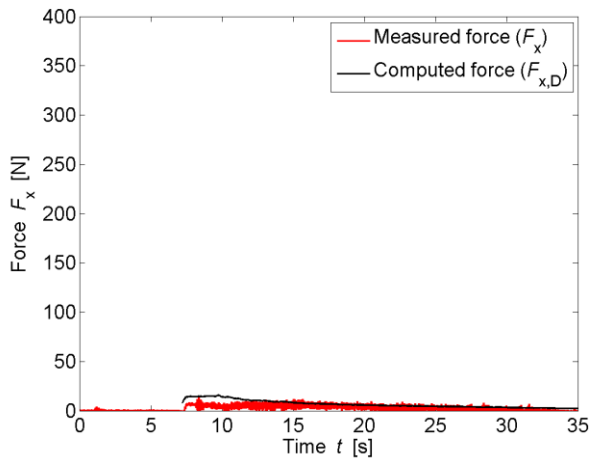


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-8.091	13.167	[N]
F_y	-13.478	10.854	[N]
F_z	-115.837	2.047	[N]
M_x	-1.394	2.142	[Nm]
M_y	-2.094	2.881	[Nm]
M_z	-0.158	0.756	[Nm]
Predicted Force	$F_{x,D,max}$	15.618	[N]
Initial time	t_0	7.157	[s]
Time to peak	τ_{max}	1.237	[s]
Total impulse	I_{tot}	86.469	[Ns]
Peak Impulse	I_{peak}	5.739	[Ns]
Relative impulse	I^*	0.066	[-]
Wave height at $F_{x,max}$	h_M	0.713	[-]
Resistance coefficient	C_R	0.118	[-]

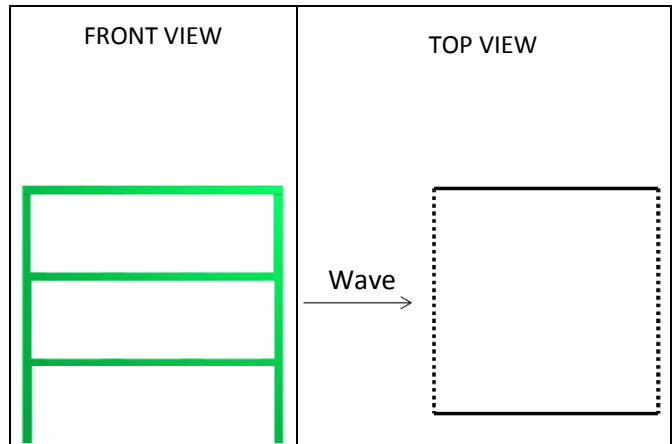


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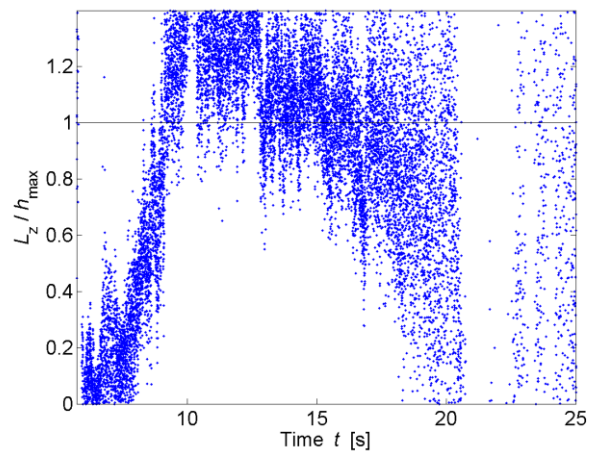
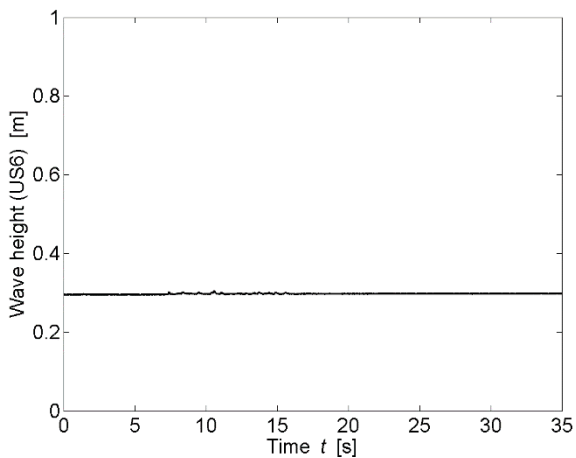
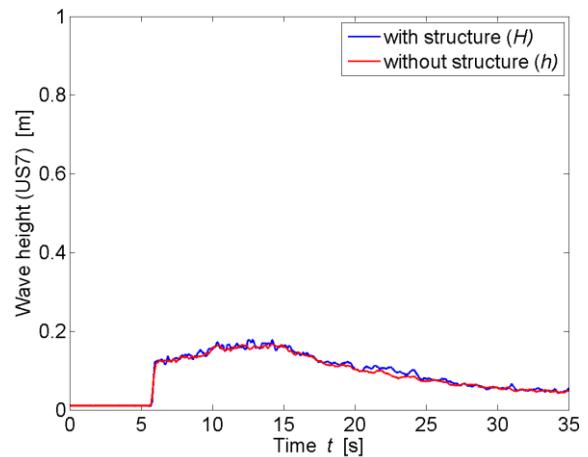
TEST PARAMETERS

Name	B84_F_WW1_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	87.45	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW1_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.010	[m]
Front celerity	U	2.663	[m/s]
Maximum wave height	h_{max}	0.167	[m]
Maximum run-up height	H_{max}	0.445	[m]

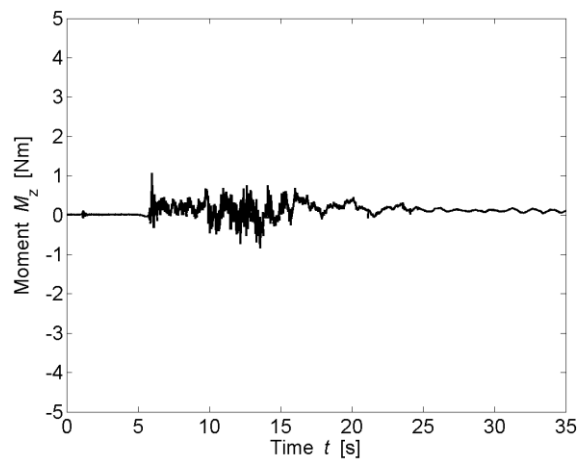
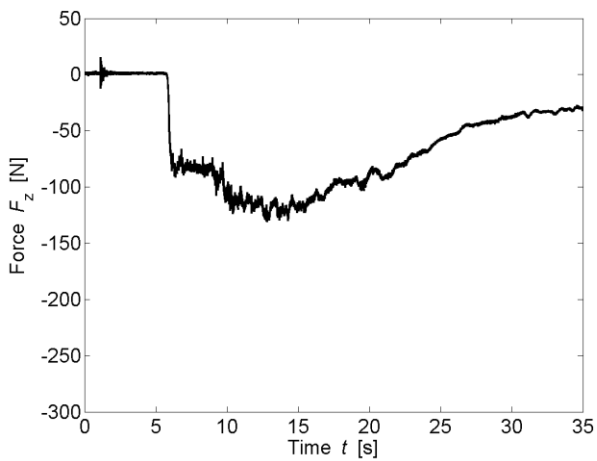
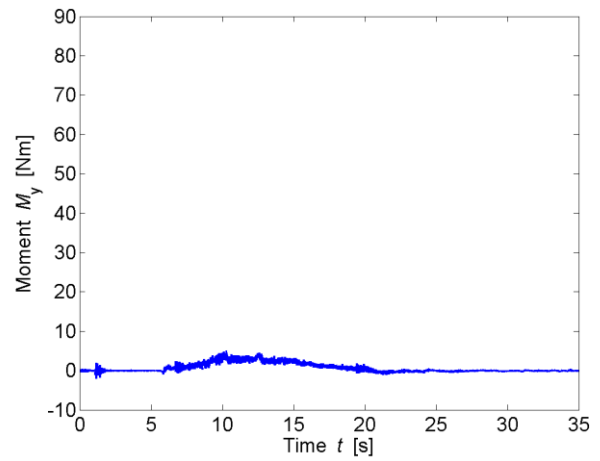
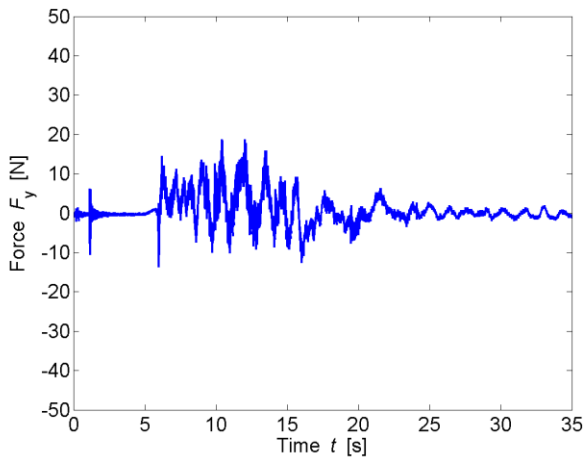
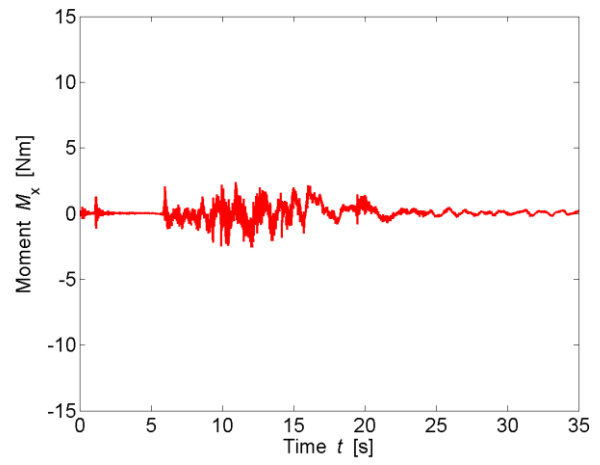
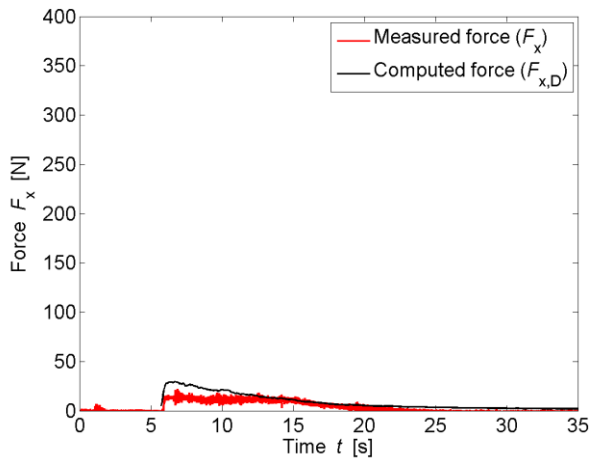


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-8.902	22.113	[N]
F_y	-13.625	18.801	[N]
F_z	-130.748	1.015	[N]
M_x	-2.573	2.410	[Nm]
M_y	-1.967	4.987	[Nm]
M_z	-0.833	1.064	[Nm]
Predicted Force	$F_{x,D,max}$	29.346	[N]
Initial time	t_0	5.773	[s]
Time to peak	τ_{max}	1.091	[s]
Total impulse	I_{tot}	135.374	[Ns]
Peak Impulse	I_{peak}	12.342	[Ns]
Relative impulse	I^*	0.089	[-]
Wave height at $F_{x,max}$	h_M	0.753	[-]
Resistance coefficient	C_R	0.123	[-]

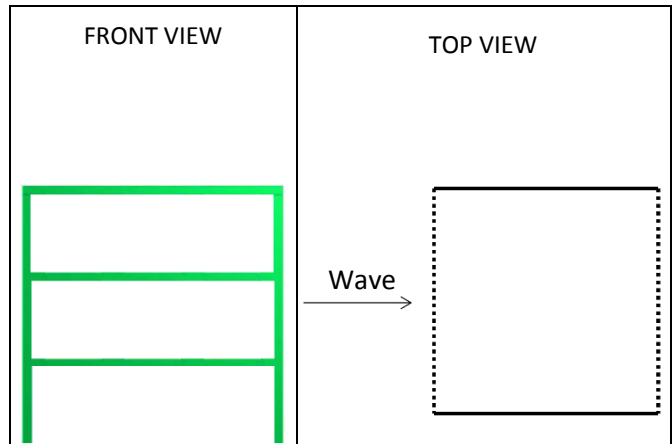


* All parameters are presented and defined at the beginning of the Appendix



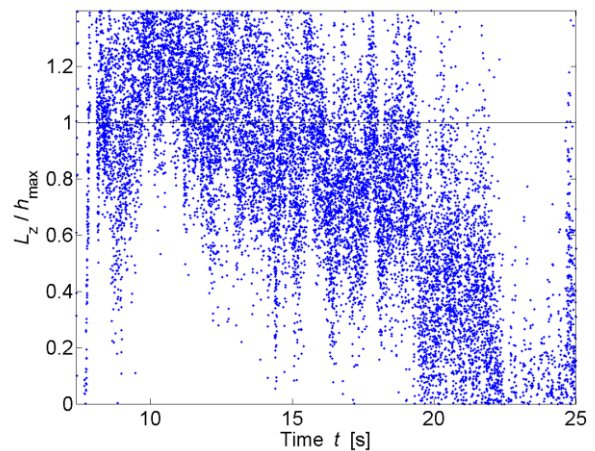
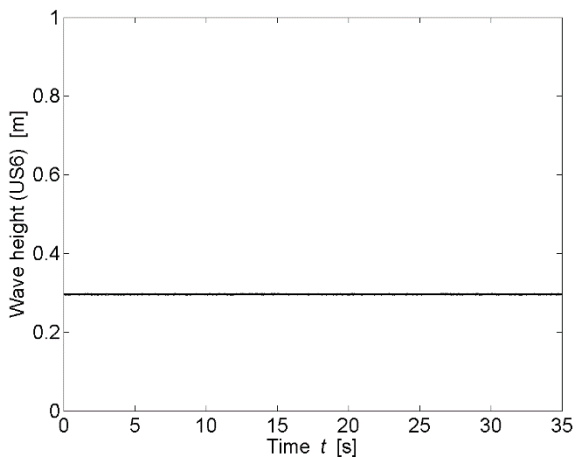
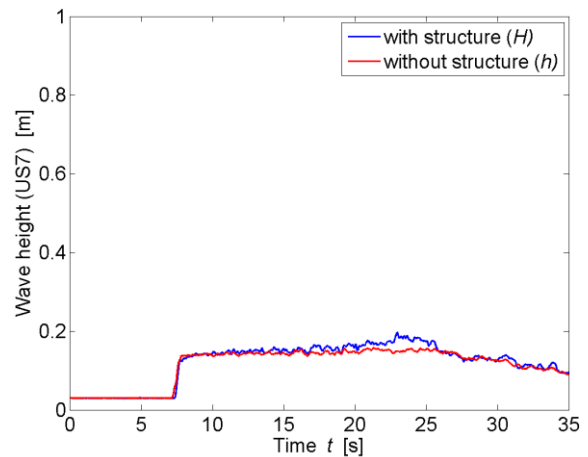
TEST PARAMETERS

Name	B84_F_WW3_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	87.11	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	1.981	[m/s]
Maximum wave height	h_{max}	0.191	[m]
Maximum run-up height	H_{max}	0.197	[m]

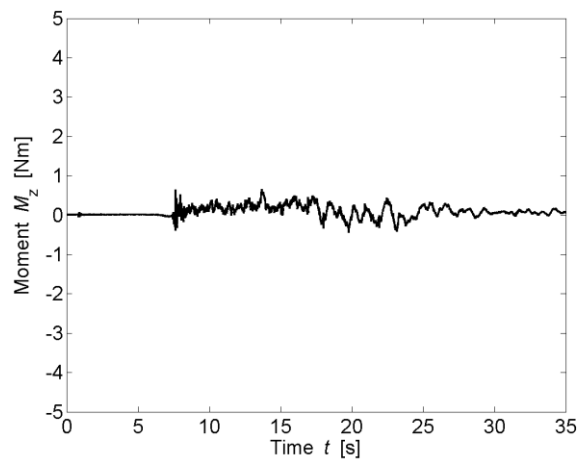
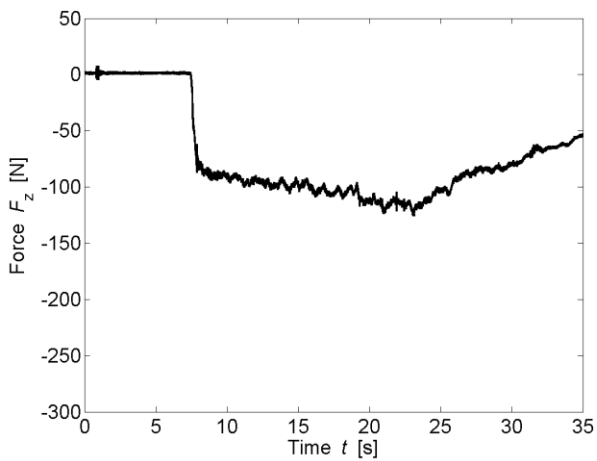
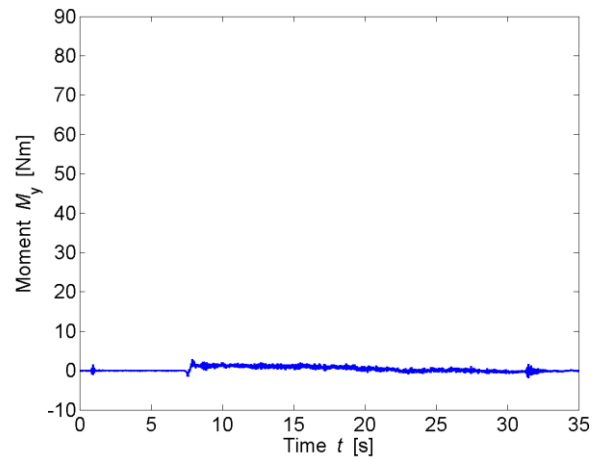
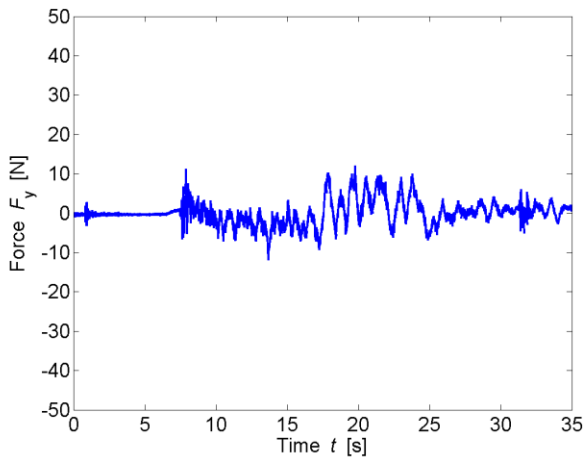
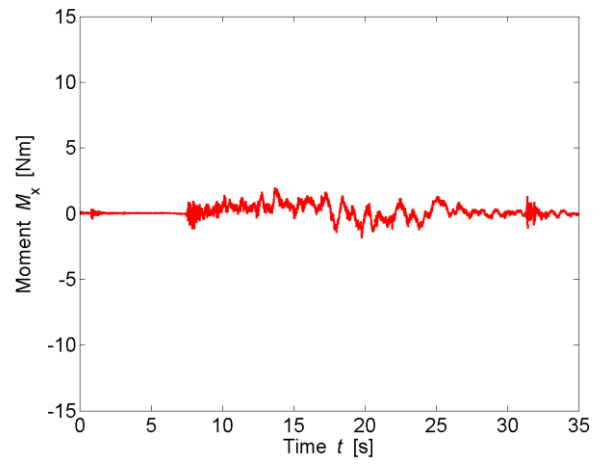
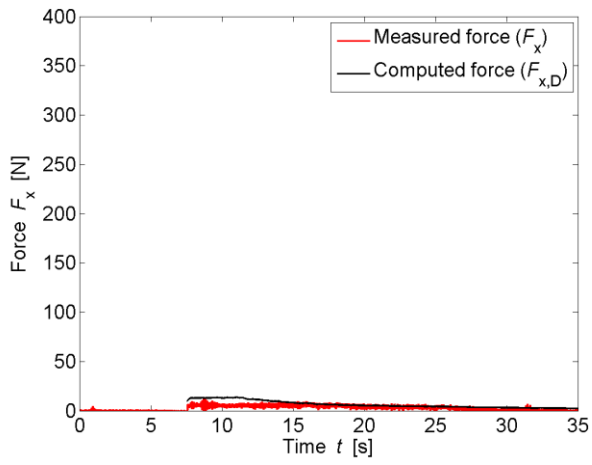


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-6.384	12.659	[N]
F_y	-11.861	12.029	[N]
F_z	-125.778	2.094	[N]
M_x	-1.865	1.997	[Nm]
M_y	-1.877	2.827	[Nm]
M_z	-0.442	0.658	[Nm]
Predicted Force	$F_{x,D,max}$	13.662	[N]
Initial time	t_0	7.446	[s]
Time to peak	τ_{max}	1.364	[s]
Total impulse	I_{tot}	92.787	[Ns]
Peak Impulse	I_{peak}	6.588	[Ns]
Relative impulse	I^*	0.070	[-]
Wave height at $F_{x,max}$	h_M	0.871	[-]
Resistance coefficient	C_R	0.119	[-]

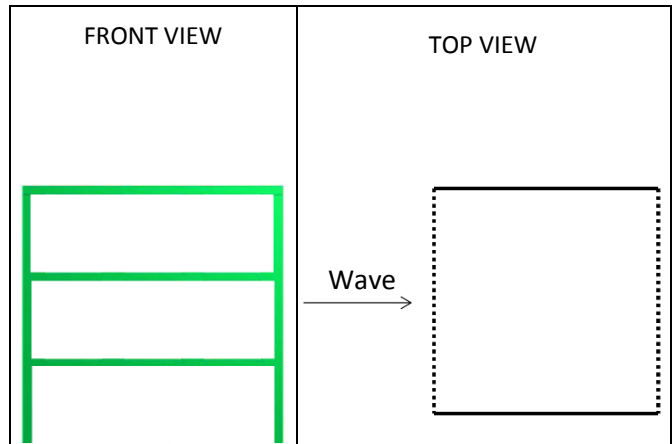


* All parameters are presented and defined at the beginning of the Appendix



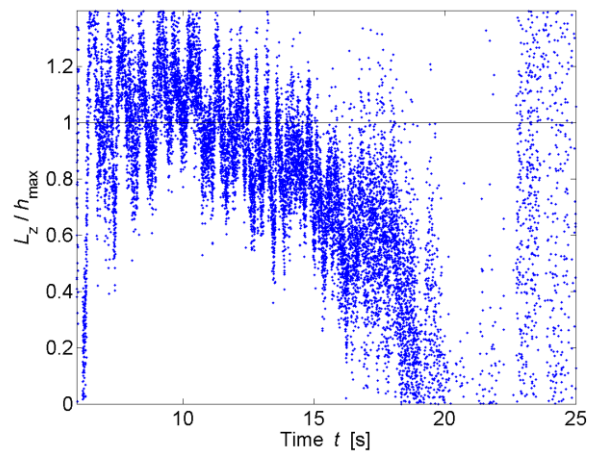
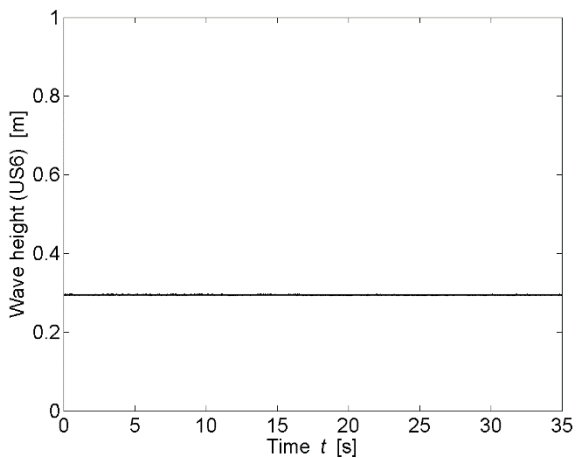
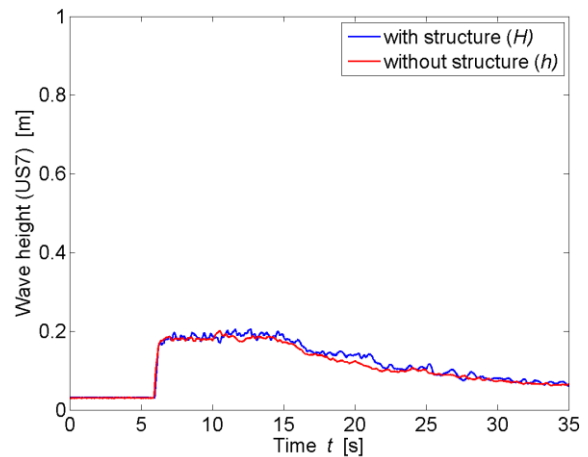
TEST PARAMETERS

Name	B84_F_WW3_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	84.22	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW3_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.030	[m]
Front celerity	U	2.513	[m/s]
Maximum wave height	h_{max}	0.201	[m]
Maximum run-up height	H_{max}	0.205	[m]

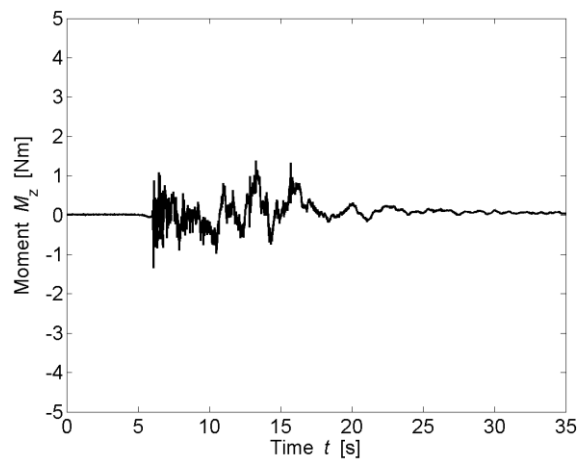
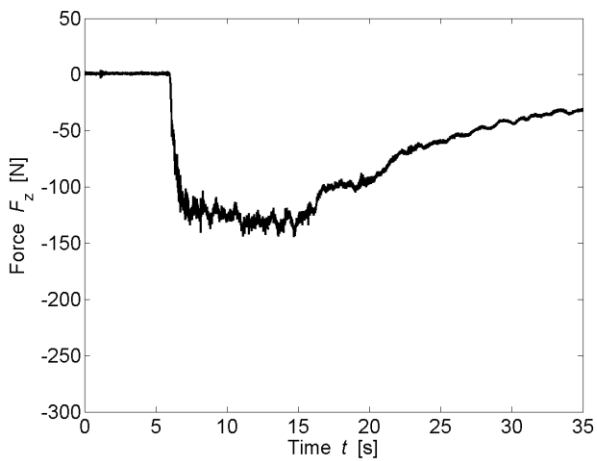
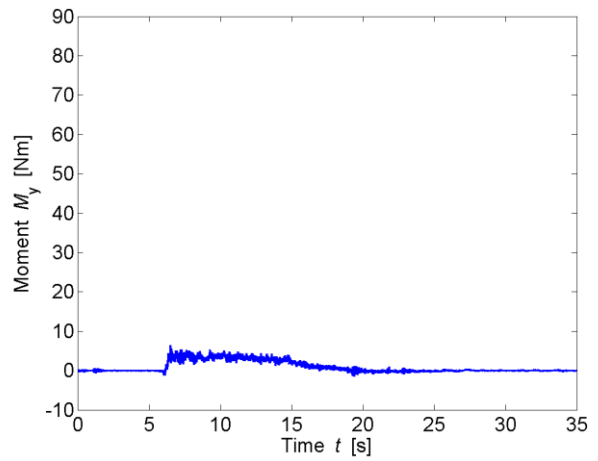
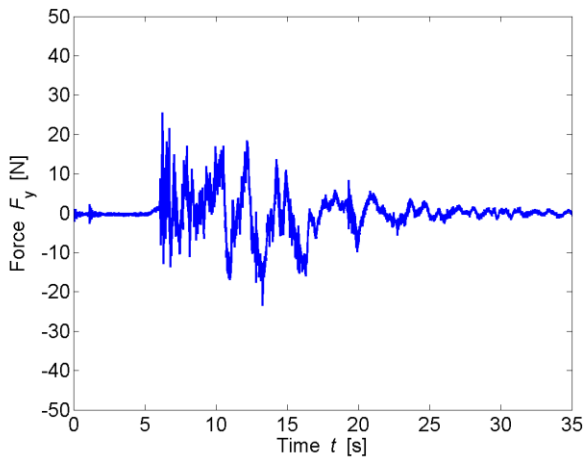
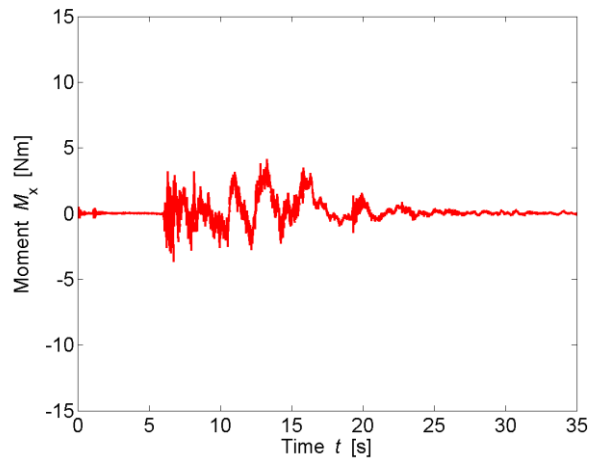
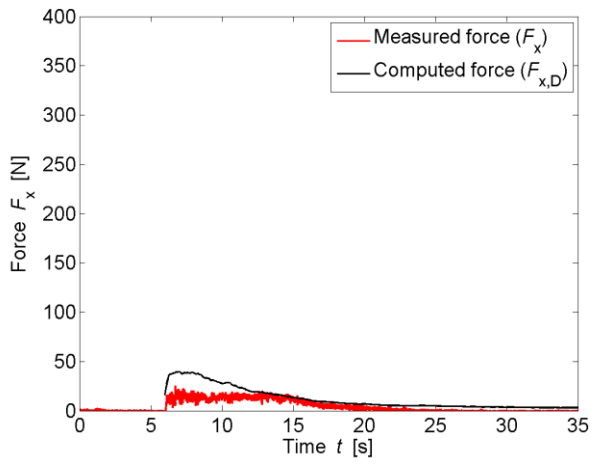


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-3.733	25.213	[N]
F_y	-23.458	25.536	[N]
F_z	-144.206	0.124	[N]
M_x	-3.660	4.132	[Nm]
M_y	-1.425	6.370	[Nm]
M_z	-1.344	1.380	[Nm]
Predicted Force	$F_{x,D,max}$	39.463	[N]
Initial time	t_0	5.989	[s]
Time to peak	τ_{max}	0.755	[s]
Total impulse	I_{tot}	151.938	[Ns]
Peak Impulse	I_{peak}	7.387	[Ns]
Relative impulse	I^*	0.048	[-]
Wave height at $F_{x,max}$	h_M	0.909	[-]
Resistance coefficient	C_R	0.148	[-]

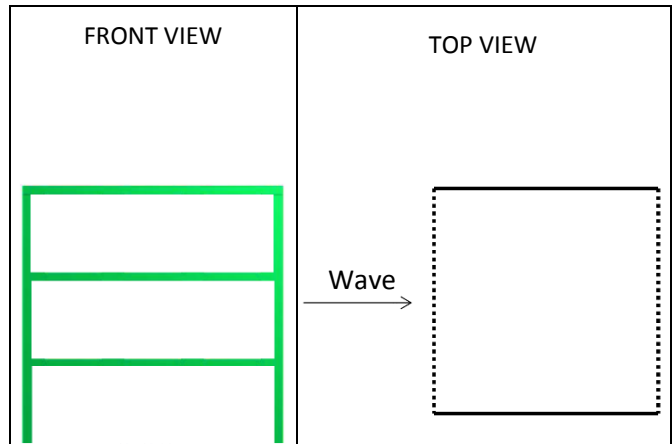


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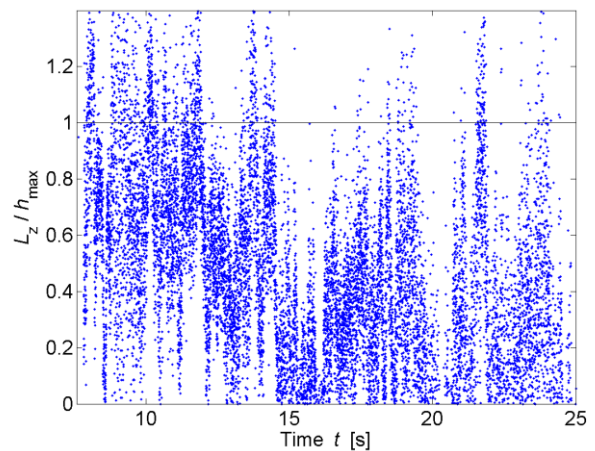
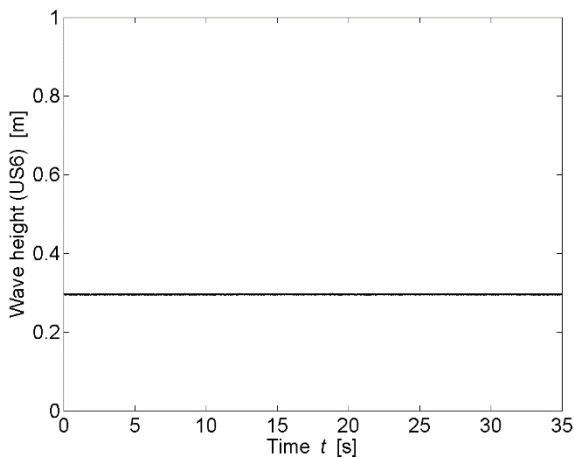
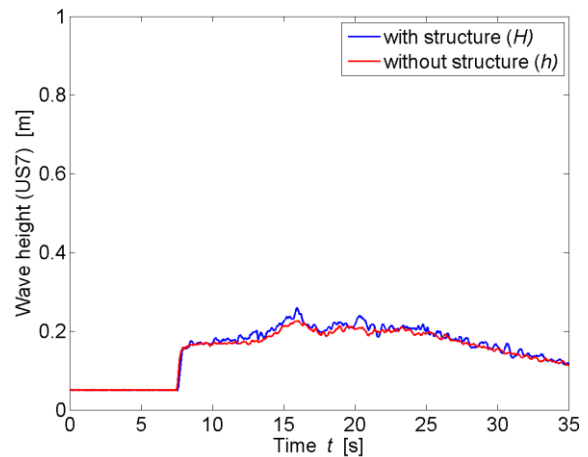
TEST PARAMETERS

Name	B84_F_WW5_1P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	88.13	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_1P)		
Impoundment depth	d_0	0.400	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	1.935	[m/s]
Maximum wave height	h_{max}	0.177	[m]
Maximum run-up height	H_{max}	0.259	[m]

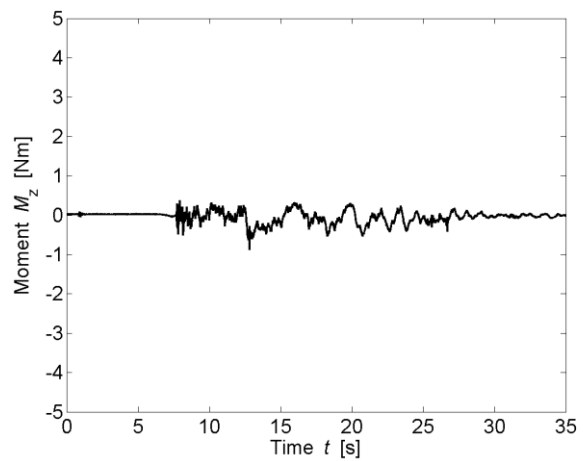
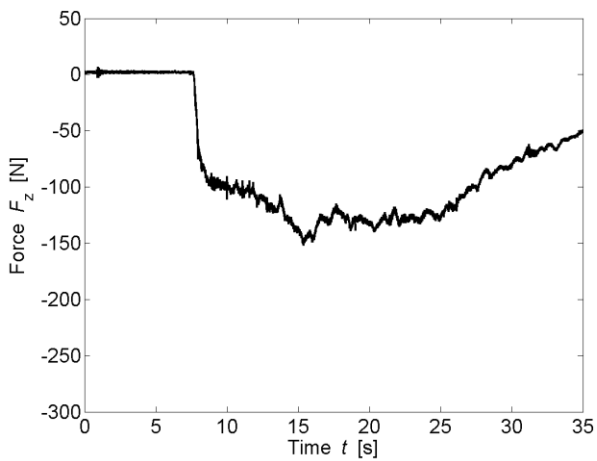
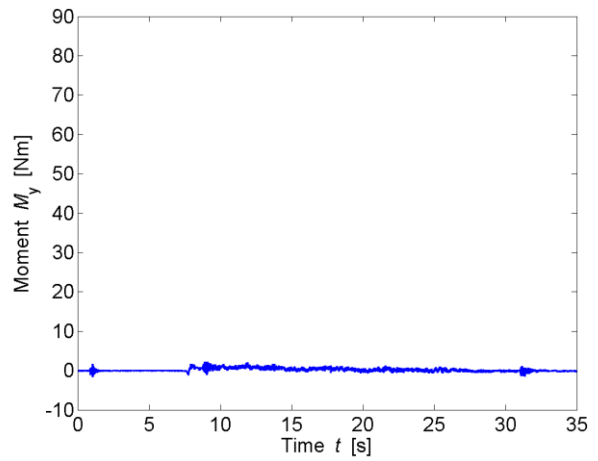
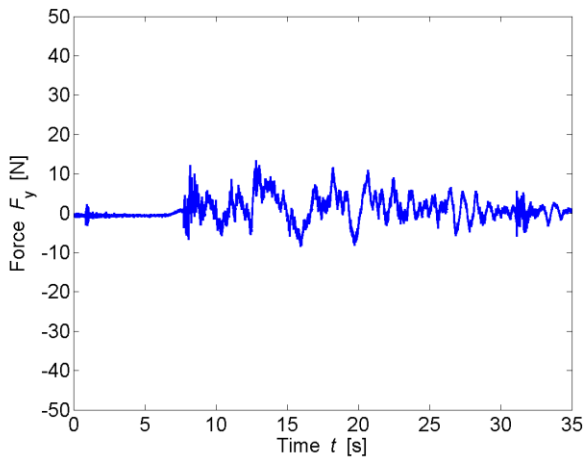
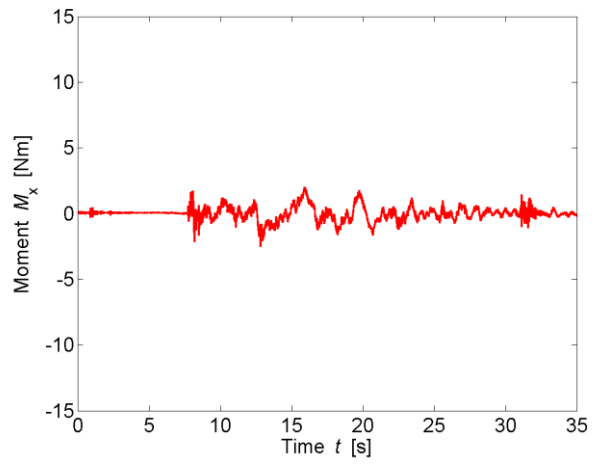
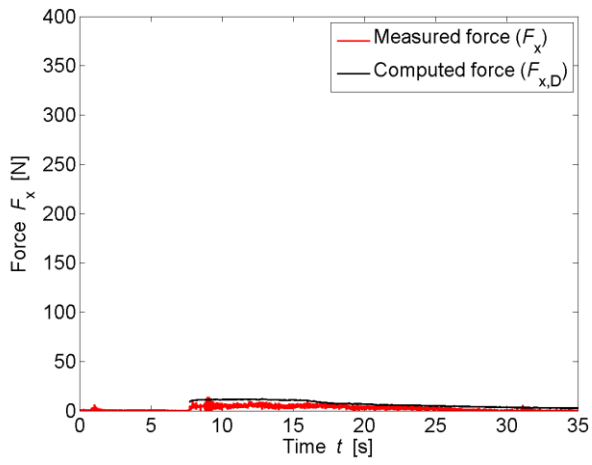


IMPACT PARAMETERS

	Min	Max	Unity
F_x	-5.819	14.083	[N]
F_y	-8.539	13.380	[N]
F_z	-152.053	2.218	[N]
M_x	-2.494	2.044	[Nm]
M_y	-1.625	2.242	[Nm]
M_z	-0.883	0.380	[Nm]
Predicted Force	$F_{x,D,max}$	11.842	[N]
Initial time	t_0	7.635	[s]
Time to peak	τ_{max}	1.364	[s]
Total impulse	I_{tot}	74.558	[Ns]
Peak Impulse	I_{peak}	5.362	[Ns]
Relative impulse	I^*	0.072	[-]
Wave height at $F_{x,max}$	h_M	0.729	[-]
Resistance coefficient	C_R	0.118	[-]

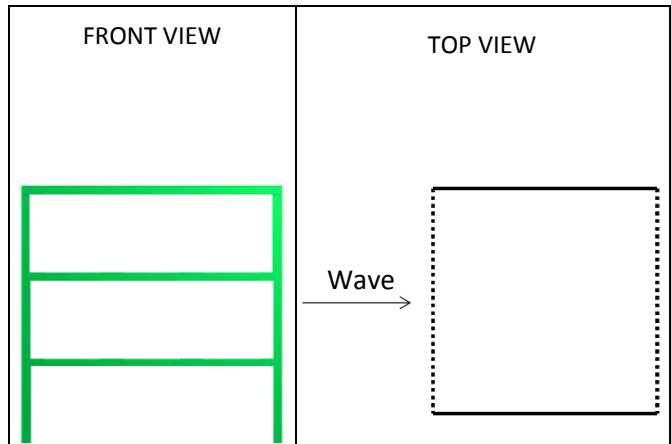


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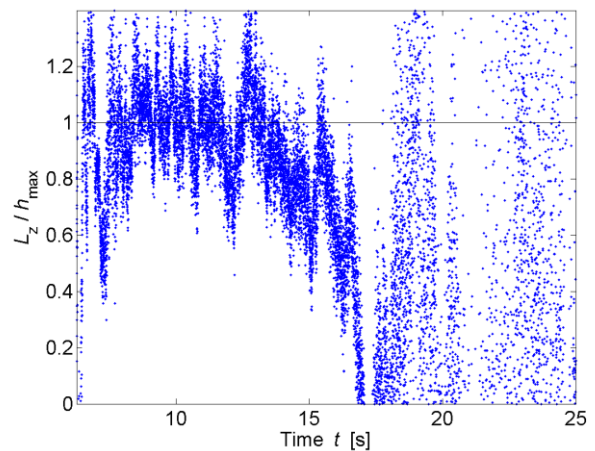
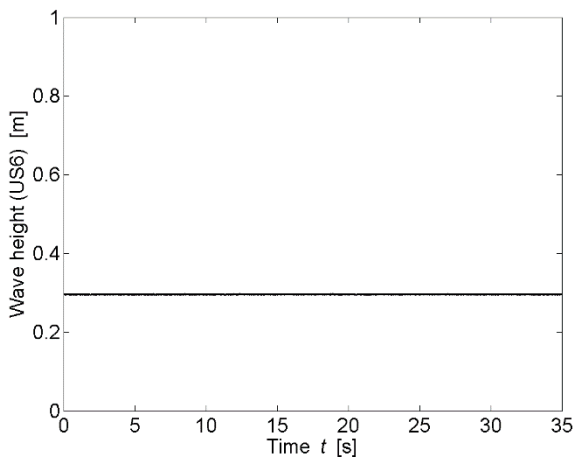
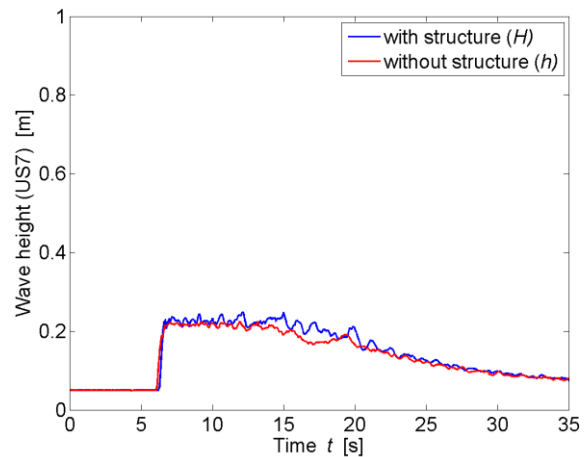
TEST PARAMETERS

Name	B84_F_WW5_2P_1		
Repetitions	1		
Configuration	Impervious sides (F)		
Total porosity	P_{tot}	84	[%]
Porosity at h_{max}	$P_{h,max}$	83.54	[%]
Building height	H_B	0.3	[m]
Wave type	Bore (WW5_2P)		
Impoundment depth	d_0	0.630	[m]
Initial still water depth	h_0	0.050	[m]
Front celerity	U	2.444	[m/s]
Maximum wave height	h_{max}	0.224	[m]
Maximum run-up height	H_{max}	0.249	[m]



IMPACT PARAMETERS

	Min	Max	Unity
F_x	-4.411	26.096	[N]
F_y	-21.168	26.515	[N]
F_z	-154.804	0.000	[N]
M_x	-4.601	4.587	[Nm]
M_y	-1.334	6.088	[Nm]
M_z	-0.840	1.082	[Nm]
Predicted Force	$F_{x,D,max}$	36.198	[N]
Initial time	t_0	6.319	[s]
Time to peak	τ_{max}	1.165	[s]
Total impulse	I_{tot}	143.529	[Ns]
Peak Impulse	I_{peak}	15.433	[Ns]
Relative impulse	I^*	0.108	[-]
Wave height at $F_{x,max}$	h_M	0.980	[-]
Resistance coefficient	C_R	0.129	[-]



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