

## **APPENDIX C**

### **Input and Output Data**

## Input and Output Data

The examples of the input data for the regular wave model are obtained from the laboratory data of Kajima et al. (1983). The input data consists of the incident wave height ( $H_i$ ), the wave period ( $T$ ) and the beach topography containing the distance from offshore ( $x$ ) and the still water depth ( $h_o$ ). The following table shows the examples of the input data of the regular wave model.

Table C.1 Input data by using the experiment condition of Kajima et al. (1983)

Case	$H_i$ (cm)	T (sec)	Beach Profile	File name
1.2	92.00	6.00	irregular beach	Topo_K12.txt
2.2	86.00	9.00	uniform slope beach	Topo_K22.txt
3.2	110.00	6.00	uniform slope beach	Topo_K32.txt
4.3	151.00	3.10	uniform slope beach	Topo_K43.txt
5.2	74.00	3.10	uniform slope beach	Topo_K52.txt
6.1	166.00	5.00	uniform slope beach	Topo_K61.txt

The output data is printed out from the regular wave program by using the print command. The results consist of the predicted wave height ( $H$ ) and the mean water level ( $\bar{\eta}$ ) at each position. The graphical output which displaying the beach profile and the wave transformation is also available. The examples of the input and output data are shown in the following pages.

Regular wave model case: = 1.2  
 Incident wave height = 92.00 cm  
 Wave period = 6.00 sec  
 Topography file: Topo\_K12.txt  
 Output file: K12.txt

x (m)	h <sub>o</sub> (cm)
40.00	448.00
40.50	447.90
41.00	448.00
41.50	448.00
42.00	448.00
42.50	448.00
43.00	448.00
43.50	448.00
44.00	448.00
44.50	448.00
45.00	448.00
45.50	448.00
46.00	447.90
46.50	447.50
47.00	446.80
47.50	445.50
48.00	444.10
48.50	443.00
49.00	441.80
49.50	440.00
50.00	438.20
50.50	437.10
51.00	436.20
51.50	436.00
52.00	436.10
52.50	436.50
53.00	436.60
53.50	435.40
54.00	433.60
54.50	430.50
55.00	427.30
55.50	425.10
56.00	423.00
56.50	421.00
57.00	418.70
57.50	415.50
58.00	412.00
58.50	408.60
59.00	405.30
59.50	402.10
60.00	393.90
60.50	370.80
61.00	354.50
61.50	365.70
62.00	383.40
62.50	387.30
63.00	385.70
63.50	382.50
64.00	379.40
64.50	377.10
65.00	375.00
65.50	373.00
66.00	370.90
66.50	368.50
67.00	365.90
67.50	363.00
68.00	360.20
68.50	357.60
69.00	355.20

69.50	353.10
70.00	351.30
70.50	350.10
71.00	348.90
71.50	347.40
72.00	345.60
72.50	343.00
73.00	340.00
73.50	337.10
74.00	334.20
74.50	331.60
75.00	329.10
75.50	326.60
76.00	324.10
76.50	321.60
77.00	319.00
77.50	316.50
78.00	313.70
78.50	310.50
79.00	307.20
79.50	304.10
80.00	300.90
80.50	297.70
81.00	294.70
81.50	292.40
82.00	290.70
82.50	289.70
83.00	289.00
83.50	288.40
84.00	287.40
84.50	285.90
85.00	283.80
85.50	281.50
86.00	278.90
86.50	276.30
87.00	274.00
87.50	272.30
88.00	270.20
88.50	267.40
89.00	265.70
89.50	266.00
90.00	263.90
90.50	255.40
91.00	245.00
91.50	236.60
92.00	230.20
92.50	224.90
93.00	219.80
93.50	214.70
94.00	209.40
94.50	203.60
95.00	197.10
95.50	190.20
96.00	182.90
96.50	175.30
97.00	167.10
97.50	158.20
98.00	149.40
98.50	141.10
99.00	133.30
99.50	126.40
100.00	120.80
100.50	116.30
101.00	113.10
101.50	112.00
102.00	114.60
102.50	121.00

103.00	128.60
103.50	133.60
104.00	135.80
104.50	136.90
105.00	138.20
105.50	140.70
106.00	144.50
106.50	149.60
107.00	156.20
107.50	164.20
108.00	172.40
108.50	179.10
109.00	183.90
109.50	186.30
110.00	187.10
110.50	187.50
111.00	186.50
111.50	183.10
112.00	178.00
112.50	172.90
113.00	168.50
113.50	164.00
114.00	159.30
114.50	154.60
115.00	150.40
115.50	146.80
116.00	143.60
116.50	140.30
117.00	137.00
117.50	133.80
118.00	130.90
118.50	128.20
119.00	125.30
119.50	122.30
120.00	119.30
120.50	116.00
121.00	112.00
121.50	108.30
122.00	105.00
122.50	101.70
123.00	98.40
123.50	94.60
124.00	90.20
124.50	85.40
125.00	80.40
125.50	75.60
126.00	71.10
126.50	67.30
127.00	64.30
127.50	62.20
128.00	61.40
128.50	61.90
129.00	64.20
129.50	68.50
130.00	73.60
130.50	78.00
131.00	80.10
131.50	80.10
132.00	78.80
132.50	76.00
133.00	72.10
133.50	67.80
134.00	63.40
134.50	58.90
135.00	54.00
135.50	48.50
136.00	42.80

136.50	37.10
137.00	31.40
137.50	26.10
138.00	21.80
138.50	19.10
139.00	17.90
139.50	16.40
140.00	14.00

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 File name = C:\data\K12.txt  
 Topography file = C:\data\Topo\_K12.txt

x = distance (m)  
 ho = still water depth (cm)  
 T = period (sec)  
 H = wave height (cm)  
 MWL = mean water level (cm)

x (m)	ho (cm)	T (sec)	H (cm)	MWL (cm)
40.00	448.00	6.00	92.00	0.00
40.50	447.90	6.00	92.00	-2.83
41.00	448.00	6.00	92.00	-2.83
41.50	448.00	6.00	92.00	-2.83
42.00	448.00	6.00	92.00	-2.83
42.50	448.00	6.00	92.00	-2.83
43.00	448.00	6.00	92.00	-2.83
43.50	448.00	6.00	92.00	-2.83
44.00	448.00	6.00	92.00	-2.83
44.50	448.00	6.00	92.00	-2.83
45.00	448.00	6.00	92.00	-2.83
45.50	448.00	6.00	92.00	-2.83
46.00	447.90	6.00	92.00	-2.83
46.50	447.50	6.00	92.01	-2.84
47.00	446.80	6.00	92.03	-2.84
47.50	445.50	6.00	92.06	-2.84
48.00	444.10	6.00	92.10	-2.85
48.50	443.00	6.00	92.13	-2.85
49.00	441.80	6.00	92.16	-2.85
49.50	440.00	6.00	92.21	-2.86
50.00	438.20	6.00	92.25	-2.86
50.50	437.10	6.00	92.28	-2.87
51.00	436.20	6.00	92.31	-2.87
51.50	436.00	6.00	92.31	-2.87
52.00	436.10	6.00	92.31	-2.87
52.50	436.50	6.00	92.30	-2.87
53.00	436.60	6.00	92.29	-2.87
53.50	435.40	6.00	92.33	-2.87
54.00	433.60	6.00	92.38	-2.88
54.50	430.50	6.00	92.46	-2.89
55.00	427.30	6.00	92.55	-2.90
55.50	425.10	6.00	92.61	-2.91
56.00	423.00	6.00	92.67	-2.92
56.50	421.00	6.00	92.73	-2.92
57.00	418.70	6.00	92.79	-2.93
57.50	415.50	6.00	92.89	-2.94
58.00	412.00	6.00	92.99	-2.96
58.50	408.60	6.00	93.09	-2.97
59.00	405.30	6.00	93.20	-2.98
59.50	402.10	6.00	93.30	-3.00
60.00	393.90	6.00	93.56	-3.03
60.50	370.80	6.00	94.37	-3.14
61.00	354.50	6.00	95.00	-3.23
61.50	365.70	6.00	94.56	-3.17
62.00	383.40	6.00	93.92	-3.08
62.50	387.30	6.00	93.78	-3.07
63.00	385.70	6.00	93.84	-3.07
63.50	382.50	6.00	93.95	-3.09
64.00	379.40	6.00	94.06	-3.10
64.50	377.10	6.00	94.14	-3.11

65.00	375.00	6.00	94.22	-3.12
65.50	373.00	6.00	94.29	-3.13
66.00	370.90	6.00	94.37	-3.14
66.50	368.50	6.00	94.46	-3.16
67.00	365.90	6.00	94.55	-3.17
67.50	363.00	6.00	94.66	-3.18
68.00	360.20	6.00	94.77	-3.20
68.50	357.60	6.00	94.88	-3.21
69.00	355.20	6.00	94.97	-3.23
69.50	353.10	6.00	95.06	-3.24
70.00	351.30	6.00	95.13	-3.25
70.50	350.10	6.00	95.18	-3.25
71.00	348.90	6.00	95.23	-3.26
71.50	347.40	6.00	95.29	-3.27
72.00	345.60	6.00	95.37	-3.28
72.50	343.00	6.00	95.48	-3.30
73.00	340.00	6.00	95.61	-3.31
73.50	337.10	6.00	95.74	-3.33
74.00	334.20	6.00	95.87	-3.35
74.50	331.60	6.00	95.99	-3.37
75.00	329.10	6.00	96.10	-3.39
75.50	326.60	6.00	96.22	-3.40
76.00	324.10	6.00	96.34	-3.42
76.50	321.60	6.00	96.46	-3.44
77.00	319.00	6.00	96.58	-3.46
77.50	316.50	6.00	96.71	-3.47
78.00	313.70	6.00	96.85	-3.50
78.50	310.50	6.00	97.01	-3.52
79.00	307.20	6.00	97.18	-3.55
79.50	304.10	6.00	97.35	-3.57
80.00	300.90	6.00	97.52	-3.60
80.50	297.70	6.00	97.69	-3.63
81.00	294.70	6.00	97.86	-3.65
81.50	292.40	6.00	97.99	-3.67
82.00	290.70	6.00	98.09	-3.69
82.50	289.70	6.00	98.15	-3.70
83.00	289.00	6.00	98.19	-3.71
83.50	288.40	6.00	98.22	-3.71
84.00	287.40	6.00	98.28	-3.72
84.50	285.90	6.00	98.37	-3.74
85.00	283.80	6.00	98.50	-3.76
85.50	281.50	6.00	98.64	-3.78
86.00	278.90	6.00	98.80	-3.81
86.50	276.30	6.00	98.96	-3.83
87.00	274.00	6.00	99.10	-3.86
87.50	272.30	6.00	99.21	-3.88
88.00	270.20	6.00	99.35	-3.90
88.50	267.40	6.00	99.53	-3.93
89.00	265.70	6.00	99.65	-3.95
89.50	266.00	6.00	99.63	-3.95
90.00	263.90	6.00	99.77	-3.97
90.50	255.40	6.00	100.37	-4.08
91.00	245.00	6.00	101.14	-4.22
91.50	236.60	6.00	101.81	-4.35
92.00	230.20	6.00	102.34	-4.46
92.50	224.90	6.00	102.80	-4.55
93.00	219.80	6.00	103.26	-4.65
93.50	214.70	6.00	103.74	-4.75
94.00	209.40	6.00	104.26	-4.87
94.50	203.60	6.00	104.85	-5.00
95.00	197.10	6.00	105.54	-5.16
95.50	190.20	6.00	106.32	-5.35
96.00	182.90	6.00	107.20	-5.58
96.50	175.30	6.00	108.17	-5.84
97.00	167.10	6.00	109.31	-6.15
97.50	158.20	6.00	108.12	-5.92
98.00	149.40	6.00	106.71	-5.62



98.50	141.10	6.00	105.16	-5.25
99.00	133.30	6.00	103.51	-4.84
99.50	126.40	6.00	101.70	-4.35
100.00	120.80	6.00	99.72	-3.78
100.50	116.30	6.00	97.64	-3.17
101.00	113.10	6.00	95.48	-2.52
101.50	112.00	6.00	93.11	-1.79
102.00	114.60	6.00	90.26	-0.95
102.50	121.00	6.00	89.14	-0.61
103.00	128.60	6.00	87.91	-0.27
103.50	133.60	6.00	87.17	-0.07
104.00	135.80	6.00	86.85	0.01
104.50	136.90	6.00	86.70	0.05
105.00	138.20	6.00	86.52	0.10
105.50	140.70	6.00	86.18	0.18
106.00	144.50	6.00	85.68	0.31
106.50	149.60	6.00	85.05	0.46
107.00	156.20	6.00	84.27	0.63
107.50	164.20	6.00	83.39	0.82
108.00	172.40	6.00	82.56	0.98
108.50	179.10	6.00	81.92	1.11
109.00	183.90	6.00	81.49	1.19
109.50	186.30	6.00	81.28	1.23
110.00	187.10	6.00	81.21	1.24
110.50	187.50	6.00	81.17	1.25
111.00	186.50	6.00	81.26	1.23
111.50	183.10	6.00	81.56	1.17
112.00	178.00	6.00	82.02	1.08
112.50	172.90	6.00	82.51	0.99
113.00	168.50	6.00	82.95	0.90
113.50	164.00	6.00	83.42	0.80
114.00	159.30	6.00	83.92	0.69
114.50	154.60	6.00	84.46	0.57
115.00	150.40	6.00	84.95	0.45
115.50	146.80	6.00	85.40	0.34
116.00	143.60	6.00	85.80	0.24
116.50	140.30	6.00	86.24	0.13
117.00	137.00	6.00	86.69	0.02
117.50	133.80	6.00	87.10	-0.09
118.00	130.90	6.00	86.05	0.14
118.50	128.20	6.00	85.01	0.37
119.00	125.30	6.00	83.97	0.60
119.50	122.30	6.00	82.91	0.84
120.00	119.30	6.00	81.81	1.09
120.50	116.00	6.00	80.67	1.36
121.00	112.00	6.00	79.52	1.63
121.50	108.30	6.00	78.26	1.93
122.00	105.00	6.00	76.93	2.26
122.50	101.70	6.00	75.62	2.59
123.00	98.40	6.00	74.27	2.93
123.50	94.60	6.00	72.96	3.26
124.00	90.20	6.00	71.57	3.63
124.50	85.40	6.00	70.11	4.02
125.00	80.40	6.00	68.53	4.46
125.50	75.60	6.00	66.79	4.96
126.00	71.10	6.00	64.98	5.51
126.50	67.30	6.00	63.03	6.10
127.00	64.30	6.00	60.95	6.74
127.50	62.20	6.00	58.87	7.38
128.00	61.40	6.00	56.73	8.02
128.50	61.90	6.00	54.61	8.62
129.00	64.20	6.00	52.39	9.21
129.50	68.50	6.00	51.61	9.41
130.00	73.60	6.00	50.87	9.58
130.50	78.00	6.00	50.27	9.72
131.00	80.10	6.00	50.00	9.77
131.50	80.10	6.00	50.00	9.77

132.00	78.80	6.00	50.17	9.74
132.50	76.00	6.00	50.54	9.65
133.00	72.10	6.00	51.08	9.52
133.50	67.80	6.00	51.67	9.37
134.00	63.40	6.00	50.76	9.59
134.50	58.90	6.00	49.73	9.84
135.00	54.00	6.00	48.63	10.12
135.50	48.50	6.00	47.35	10.46
136.00	42.80	6.00	45.86	10.89
136.50	37.10	6.00	44.18	11.41
137.00	31.40	6.00	42.24	12.06
137.50	26.10	6.00	40.01	12.83
138.00	21.80	6.00	37.41	13.74
138.50	19.10	6.00	34.67	14.65
139.00	17.90	6.00	32.20	15.40
139.50	16.40	6.00	30.49	15.88
140.00	14.00	6.00	29.14	16.25

## Beach Profile

$H_i = 92.00$  cm.  $T_i = 6$  sec. Topography = C:\data\Topo\_K12.txt

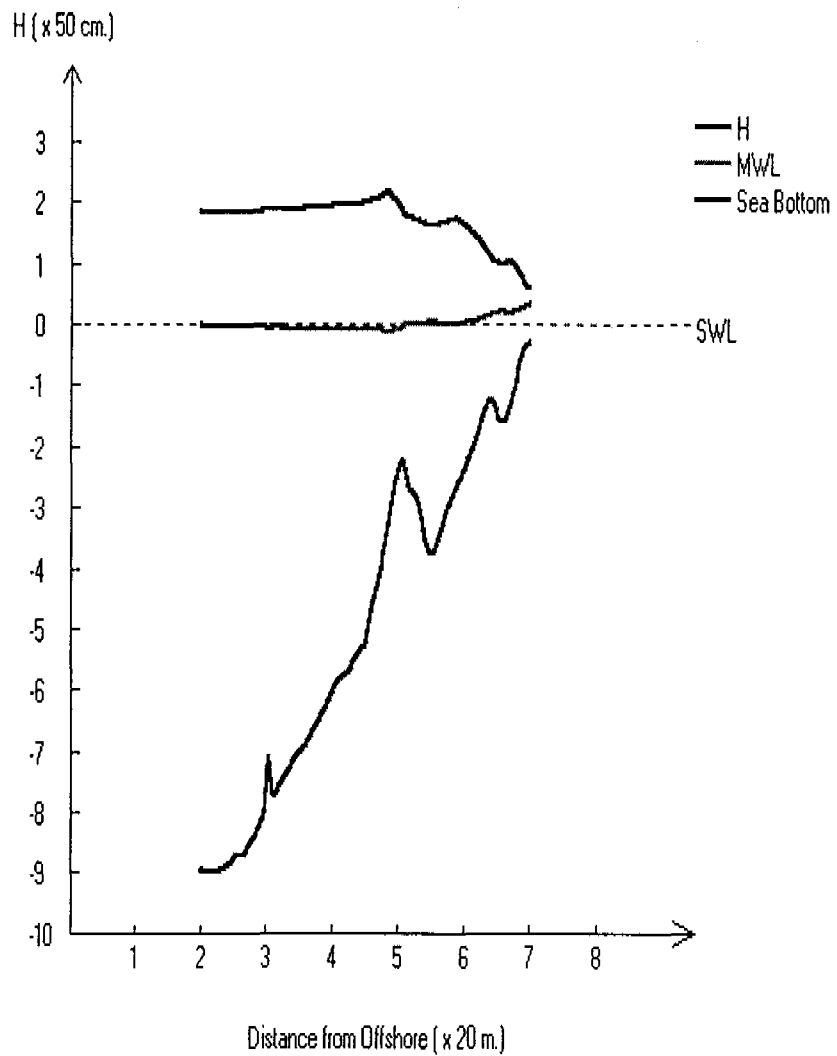


Fig. C.1 The beach profile and wave height transformation of regular wave model case 1.2 by using the experimental condition from Kajima et al. (1983)

Regular wave model case:	=	2.2
Incident wave height	=	86.00 cm
Wave period	=	9.00 sec
Topography file:		Topo_K22.txt
Output file:		K22.txt

x (m)	h <sub>o</sub> (cm)
10.00	350.00
10.50	349.80
11.00	350.00
11.50	350.00
12.00	350.00
12.50	350.00
13.00	350.00
13.50	350.00
14.00	350.00
14.50	350.00
15.00	349.90
15.50	349.50
16.00	349.00
16.50	348.50
17.00	348.00
17.50	347.50
18.00	347.10
18.50	347.00
19.00	346.90
19.50	346.40
20.00	345.70
20.50	344.50
21.00	342.90
21.50	341.00
22.00	339.20
22.50	337.50
23.00	335.90
23.50	334.00
24.00	332.20
24.50	330.50
25.00	328.90
25.50	327.00
26.00	325.20
26.50	323.50
27.00	321.70
27.50	319.60
28.00	317.50
28.50	316.10
29.00	314.70
29.50	313.00
30.00	311.30
30.50	310.10
31.00	308.90
31.50	307.50
32.00	305.90
32.50	304.00
33.00	302.20
33.50	300.60
34.00	299.40
34.50	298.50
35.00	297.70
35.50	296.50
36.00	295.40
36.50	294.50
37.00	293.70
37.50	292.50
38.00	291.40
38.50	290.50
39.00	289.50

39.50	288.10
40.00	286.70
40.50	286.10
41.00	285.50
41.50	284.30
42.00	282.70
42.50	280.60
43.00	278.60
43.50	277.10
44.00	275.90
44.50	274.50
45.00	273.00
45.50	271.50
46.00	269.70
46.50	267.70
47.00	265.80
47.50	264.60
48.00	263.30
48.50	261.50
49.00	259.40
49.50	257.50
50.00	255.30
50.50	252.70
51.00	250.40
51.50	248.80
52.00	247.60
52.50	246.20
53.00	244.20
53.50	241.80
54.00	239.70
54.50	238.30
55.00	237.40
55.50	236.10
56.00	234.30
56.50	232.00
57.00	229.60
57.50	227.40
58.00	225.40
58.50	223.70
59.00	222.10
59.50	220.50
60.00	218.70
60.50	216.70
61.00	214.20
61.50	211.60
62.00	209.30
62.50	207.70
63.00	206.60
63.50	205.40
64.00	203.60
64.50	201.40
65.00	199.10
65.50	197.00
66.00	195.10
66.50	192.50
67.00	189.70
67.50	187.40
68.00	185.40
68.50	183.30
69.00	180.80
69.50	178.10
70.00	175.60
70.50	173.70
71.00	172.40
71.50	171.40
72.00	170.30
72.50	169.10

73.00	167.80
73.50	166.70
74.00	166.00
74.50	165.40
75.00	164.50
75.50	163.10
76.00	161.60
76.50	160.40
77.00	159.60
77.50	159.30
78.00	159.40
78.50	159.60
79.00	159.60
79.50	159.20
80.00	158.50
80.50	157.90
81.00	157.30
81.50	156.80
82.00	156.20
82.50	155.50
83.00	154.70
83.50	153.90
84.00	153.00
84.50	152.10
85.00	151.10
85.50	150.20
86.00	149.30
86.50	148.40
87.00	147.50
87.50	146.50
88.00	145.50
88.50	144.40
89.00	143.20
89.50	141.80
90.00	140.20
90.50	138.40
91.00	136.50
91.50	134.60
92.00	132.80
92.50	131.10
93.00	129.50
93.50	128.00
94.00	126.50
94.50	125.00
95.00	123.50
95.50	122.00
96.00	120.50
96.50	118.80
97.00	117.10
97.50	115.30
98.00	113.70
98.50	112.30
99.00	111.00
99.50	109.70
100.00	108.40
100.50	107.20
101.00	105.90
101.50	104.40
102.00	102.70
102.50	100.80
103.00	98.70
103.50	96.30
104.00	93.80
104.50	91.30
105.00	89.10
105.50	87.10
106.00	84.90

106.50	82.20
107.00	79.50
107.50	76.90
108.00	74.30
108.50	72.00
109.00	70.10
109.50	68.70
110.00	67.70

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January 25, 2000 03:04:08 PM  
 File name = C:\data\K22.txt  
 Topography file = C:\data\Topo\_K22.txt

x = distance (m)  
 ho = still water depth (cm)  
 T = period (sec)  
 H = wave height (cm)  
 MWL = mean water level (cm)

x (m)	ho (cm)	T (sec)	H (cm)	MWL (cm)
10.00	350.00	9.00	86.00	0.00
10.50	349.80	9.00	86.01	-3.71
11.00	350.00	9.00	86.00	-3.71
11.50	350.00	9.00	86.00	-3.71
12.00	350.00	9.00	86.00	-3.71
12.50	350.00	9.00	86.00	-3.71
13.00	350.00	9.00	86.00	-3.71
13.50	350.00	9.00	86.00	-3.71
14.00	350.00	9.00	86.00	-3.71
14.50	350.00	9.00	86.00	-3.71
15.00	349.90	9.00	86.01	-3.71
15.50	349.50	9.00	86.03	-3.71
16.00	349.00	9.00	86.05	-3.71
16.50	348.50	9.00	86.08	-3.71
17.00	348.00	9.00	86.10	-3.72
17.50	347.50	9.00	86.13	-3.72
18.00	347.10	9.00	86.15	-3.72
18.50	347.00	9.00	86.16	-3.72
19.00	346.90	9.00	86.16	-3.72
19.50	346.40	9.00	86.19	-3.73
20.00	345.70	9.00	86.22	-3.73
20.50	344.50	9.00	86.29	-3.74
21.00	342.90	9.00	86.37	-3.75
21.50	341.00	9.00	86.47	-3.76
22.00	339.20	9.00	86.57	-3.77
22.50	337.50	9.00	86.66	-3.78
23.00	335.90	9.00	86.75	-3.79
23.50	334.00	9.00	86.85	-3.80
24.00	332.20	9.00	86.95	-3.81
24.50	330.50	9.00	87.05	-3.82
25.00	328.90	9.00	87.14	-3.83
25.50	327.00	9.00	87.24	-3.84
26.00	325.20	9.00	87.35	-3.85
26.50	323.50	9.00	87.44	-3.86
27.00	321.70	9.00	87.55	-3.87
27.50	319.60	9.00	87.67	-3.89
28.00	317.50	9.00	87.79	-3.90
28.50	316.10	9.00	87.88	-3.91
29.00	314.70	9.00	87.96	-3.92
29.50	313.00	9.00	88.06	-3.93
30.00	311.30	9.00	88.17	-3.95
30.50	310.10	9.00	88.24	-3.95
31.00	308.90	9.00	88.31	-3.96
31.50	307.50	9.00	88.40	-3.97
32.00	305.90	9.00	88.50	-3.98
32.50	304.00	9.00	88.62	-4.00
33.00	302.20	9.00	88.73	-4.01
33.50	300.60	9.00	88.84	-4.03
34.00	299.40	9.00	88.91	-4.03
34.50	298.50	9.00	88.97	-4.04



35.00	297.70	9.00	89.02	-4.05
35.50	296.50	9.00	89.10	-4.06
36.00	295.40	9.00	89.17	-4.07
36.50	294.50	9.00	89.23	-4.07
37.00	293.70	9.00	89.29	-4.08
37.50	292.50	9.00	89.37	-4.09
38.00	291.40	9.00	89.44	-4.10
38.50	290.50	9.00	89.50	-4.11
39.00	289.50	9.00	89.57	-4.12
39.50	288.10	9.00	89.66	-4.13
40.00	286.70	9.00	89.76	-4.14
40.50	286.10	9.00	89.80	-4.15
41.00	285.50	9.00	89.84	-4.15
41.50	284.30	9.00	89.93	-4.16
42.00	282.70	9.00	90.04	-4.18
42.50	280.60	9.00	90.18	-4.20
43.00	278.60	9.00	90.33	-4.22
43.50	277.10	9.00	90.43	-4.23
44.00	275.90	9.00	90.52	-4.24
44.50	274.50	9.00	90.62	-4.26
45.00	273.00	9.00	90.73	-4.27
45.50	271.50	9.00	90.84	-4.29
46.00	269.70	9.00	90.98	-4.30
46.50	267.70	9.00	91.13	-4.32
47.00	265.80	9.00	91.27	-4.34
47.50	264.60	9.00	91.37	-4.36
48.00	263.30	9.00	91.47	-4.37
48.50	261.50	9.00	91.61	-4.39
49.00	259.40	9.00	91.77	-4.42
49.50	257.50	9.00	91.92	-4.44
50.00	255.30	9.00	92.10	-4.46
50.50	252.70	9.00	92.31	-4.50
51.00	250.40	9.00	92.50	-4.52
51.50	248.80	9.00	92.64	-4.54
52.00	247.60	9.00	92.74	-4.56
52.50	246.20	9.00	92.86	-4.58
53.00	244.20	9.00	93.03	-4.61
53.50	241.80	9.00	93.24	-4.64
54.00	239.70	9.00	93.42	-4.67
54.50	238.30	9.00	93.55	-4.69
55.00	237.40	9.00	93.63	-4.70
55.50	236.10	9.00	93.75	-4.72
56.00	234.30	9.00	93.91	-4.75
56.50	232.00	9.00	94.12	-4.78
57.00	229.60	9.00	94.35	-4.82
57.50	227.40	9.00	94.56	-4.85
58.00	225.40	9.00	94.75	-4.89
58.50	223.70	9.00	94.92	-4.91
59.00	222.10	9.00	95.07	-4.94
59.50	220.50	9.00	95.23	-4.97
60.00	218.70	9.00	95.41	-5.00
60.50	216.70	9.00	95.62	-5.04
61.00	214.20	9.00	95.88	-5.08
61.50	211.60	9.00	96.15	-5.14
62.00	209.30	9.00	96.40	-5.18
62.50	207.70	9.00	96.57	-5.21
63.00	206.60	9.00	96.69	-5.24
63.50	205.40	9.00	96.82	-5.26
64.00	203.60	9.00	97.02	-5.30
64.50	201.40	9.00	97.27	-5.35
65.00	199.10	9.00	97.54	-5.40
65.50	197.00	9.00	97.78	-5.45
66.00	195.10	9.00	98.01	-5.50
66.50	192.50	9.00	98.32	-5.56
67.00	189.70	9.00	98.67	-5.63
67.50	187.40	9.00	98.96	-5.70
68.00	185.40	9.00	99.21	-5.75

68.50	183.30	9.00	99.48	-5.81
69.00	180.80	9.00	99.81	-5.88
69.50	178.10	9.00	100.18	-5.97
70.00	175.60	9.00	100.52	-6.05
70.50	173.70	9.00	100.79	-6.11
71.00	172.40	9.00	100.97	-6.15
71.50	171.40	9.00	101.12	-6.19
72.00	170.30	9.00	101.28	-6.23
72.50	169.10	9.00	101.45	-6.27
73.00	167.80	9.00	100.84	-6.13
73.50	166.70	9.00	100.20	-5.99
74.00	166.00	9.00	99.49	-5.83
74.50	165.40	9.00	98.77	-5.67
75.00	164.50	9.00	98.12	-5.53
75.50	163.10	9.00	97.51	-5.39
76.00	161.60	9.00	96.84	-5.25
76.50	160.40	9.00	96.19	-5.10
77.00	159.60	9.00	95.49	-4.94
77.50	159.30	9.00	94.72	-4.77
78.00	159.40	9.00	93.93	-4.60
78.50	159.60	9.00	93.90	-4.59
79.00	159.60	9.00	93.90	-4.59
79.50	159.20	9.00	93.96	-4.60
80.00	158.50	9.00	94.06	-4.63
80.50	157.90	9.00	93.38	-4.48
81.00	157.30	9.00	93.47	-4.50
81.50	156.80	9.00	92.78	-4.34
82.00	156.20	9.00	92.86	-4.37
82.50	155.50	9.00	92.20	-4.22
83.00	154.70	9.00	91.56	-4.08
83.50	153.90	9.00	91.66	-4.10
84.00	153.00	9.00	91.05	-3.97
84.50	152.10	9.00	90.41	-3.83
85.00	151.10	9.00	89.80	-3.69
85.50	150.20	9.00	89.18	-3.56
86.00	149.30	9.00	88.57	-3.42
86.50	148.40	9.00	87.97	-3.29
87.00	147.50	9.00	88.08	-3.32
87.50	146.50	9.00	87.46	-3.18
88.00	145.50	9.00	86.86	-3.05
88.50	144.40	9.00	86.27	-2.92
89.00	143.20	9.00	85.69	-2.79
89.50	141.80	9.00	85.14	-2.67
90.00	140.20	9.00	84.61	-2.56
90.50	138.40	9.00	84.09	-2.44
91.00	136.50	9.00	83.48	-2.31
91.50	134.60	9.00	82.85	-2.16
92.00	132.80	9.00	82.25	-2.03
92.50	131.10	9.00	81.61	-1.88
93.00	129.50	9.00	80.93	-1.73
93.50	128.00	9.00	80.23	-1.57
94.00	126.50	9.00	79.59	-1.42
94.50	125.00	9.00	78.94	-1.27
95.00	123.50	9.00	78.28	-1.12
95.50	122.00	9.00	77.61	-0.96
96.00	120.50	9.00	76.92	-0.81
96.50	118.80	9.00	76.26	-0.65
97.00	117.10	9.00	75.58	-0.49
97.50	115.30	9.00	74.89	-0.33
98.00	113.70	9.00	74.15	-0.15
98.50	112.30	9.00	73.37	0.03
99.00	111.00	9.00	72.57	0.22
99.50	109.70	9.00	71.85	0.39
100.00	108.40	9.00	71.12	0.57
100.50	107.20	9.00	70.39	0.74
101.00	105.90	9.00	69.67	0.91
101.50	104.40	9.00	68.98	1.07

102.00	102.70	9.00	68.25	1.25
102.50	100.80	9.00	67.52	1.42
103.00	98.70	9.00	66.81	1.60
103.50	96.30	9.00	66.03	1.78
104.00	93.80	9.00	65.23	1.98
104.50	91.30	9.00	64.38	2.20
105.00	89.10	9.00	63.49	2.42
105.50	87.10	9.00	62.53	2.66
106.00	84.90	9.00	61.66	2.89
106.50	82.20	9.00	60.77	3.12
107.00	79.50	9.00	59.82	3.37
107.50	76.90	9.00	58.78	3.64
108.00	74.30	9.00	57.71	3.93
108.50	72.00	9.00	56.59	4.24
109.00	70.10	9.00	55.44	4.55
109.50	68.70	9.00	54.20	4.89
110.00	67.70	9.00	53.00	5.21

## Beach Profile

$H_i = 86$  cm.  $T_i = 9$  sec. Topography = C:\data\Topo\_K22.txt

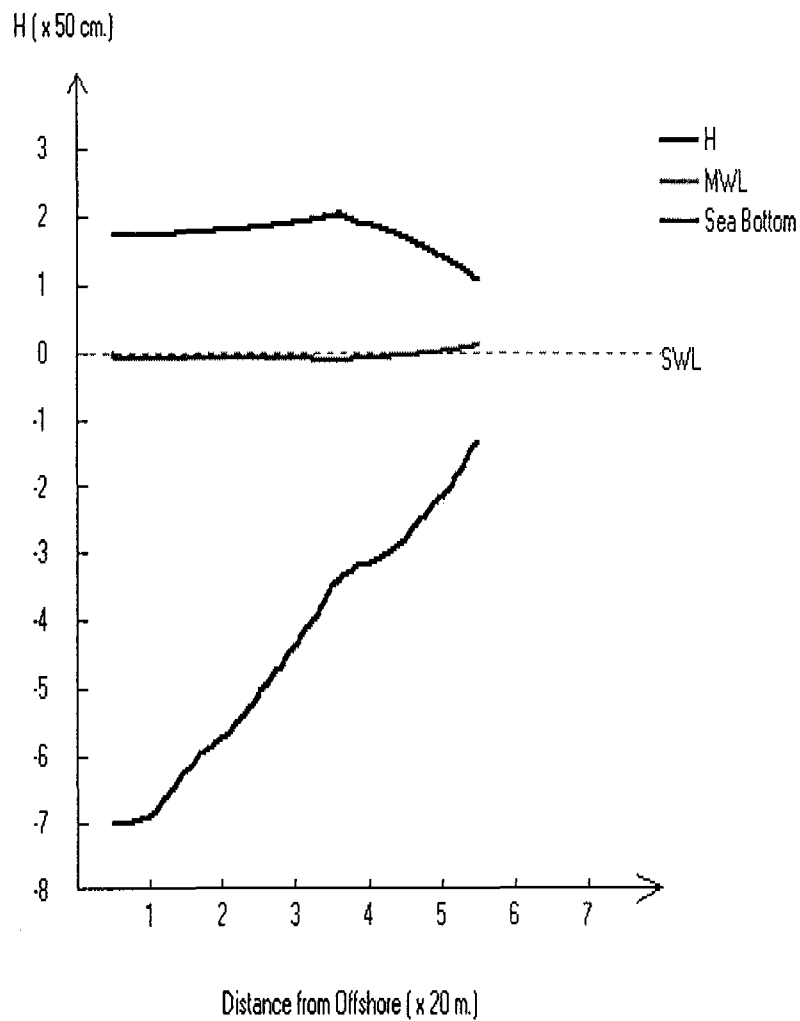


Fig. C.2 The beach profile and wave height transformation of regular wave model case 2.2 by using the experimental condition from Kajima et al. (1983)

Regular wave model case: = 3.2  
 Incident wave height = 110.00 cm  
 Wave period = 6.00 sec  
 Topography file: Topo\_K32.txt  
 Output file: K32.txt

x (m)	h <sub>o</sub> (cm)
35.00	450.00
35.50	449.10
36.00	449.80
36.50	450.00
37.00	450.00
37.50	450.00
38.00	450.00
38.50	450.00
39.00	450.10
39.50	450.40
40.00	450.10
40.50	448.80
41.00	446.80
41.50	444.40
42.00	442.00
42.50	439.50
43.00	437.00
43.50	434.40
44.00	431.80
44.50	429.00
45.00	426.10
45.50	423.50
46.00	421.00
46.50	418.50
47.00	416.20
47.50	414.00
48.00	412.00
48.50	409.90
49.00	407.80
49.50	405.40
50.00	402.90
50.50	400.50
51.00	398.10
51.50	395.90
52.00	393.50
52.50	390.90
53.00	388.10
53.50	385.50
54.00	382.90
54.50	380.50
55.00	378.10
55.50	375.90
56.00	373.70
56.50	371.40
57.00	369.10
57.50	366.90
58.00	364.60
58.50	362.30
59.00	360.20
59.50	358.20
60.00	355.10
60.50	351.40
61.00	348.40
61.50	345.60
62.00	343.00
62.50	340.50
63.00	337.80
63.50	335.00
64.00	332.00

64.50	329.00
65.00	326.10
65.50	323.20
66.00	320.30
66.50	317.70
67.00	315.10
67.50	312.60
68.00	310.10
68.50	307.70
69.00	305.30
69.50	303.10
70.00	300.80
70.50	298.40
71.00	296.00
71.50	293.60
72.00	291.10
72.50	288.60
73.00	286.10
73.50	283.60
74.00	281.10
74.50	278.70
75.00	276.40
75.50	274.10
76.00	271.80
76.50	269.60
77.00	267.30
77.50	265.10
78.00	262.90
78.50	260.60
79.00	258.30
79.50	256.10
80.00	253.70
80.50	251.30
81.00	248.70
81.50	246.10
82.00	243.40
82.50	240.60
83.00	237.90
83.50	235.20
84.00	232.50
84.50	229.80
85.00	227.30
85.50	224.70
86.00	222.30
86.50	219.90
87.00	217.50
87.50	215.20
88.00	212.80
88.50	210.40
89.00	208.00
89.50	205.50
90.00	202.90
90.50	200.20
91.00	197.50
91.50	194.80
92.00	191.80
92.50	188.60
93.00	184.80
93.50	180.20
94.00	174.50
94.50	170.80
95.00	169.60
95.50	167.80
96.00	165.70
96.50	163.20
97.00	160.50
97.50	157.60

98.00	154.80
98.50	152.10
99.00	149.60
99.50	147.20
100.00	144.70
100.50	142.30
101.00	140.00
101.50	137.70
102.00	135.50
102.50	133.30
103.00	131.10
103.50	128.80
104.00	126.40
104.50	124.00
105.00	121.70
105.50	119.50
106.00	117.20
106.50	114.90
107.00	112.70
107.50	110.60
108.00	108.50
108.50	106.70
109.00	105.40
109.50	104.70
110.00	104.00
110.50	102.30
111.00	100.00
111.50	97.50
112.00	95.20
112.50	92.80
113.00	90.10
113.50	87.20
114.00	84.30
114.50	81.50
115.00	78.90
115.50	76.40
116.00	74.00
116.50	71.50
117.00	68.90
117.50	66.20
118.00	63.60
118.50	60.90
119.00	58.30
119.50	55.70
120.00	53.00
120.50	50.40
121.00	47.80
121.50	45.10
122.00	42.50
122.50	40.00
123.00	37.70
123.50	35.40
124.00	33.20
124.50	30.90
125.00	28.70
125.50	26.50
126.00	24.10
126.50	21.60
127.00	19.10
127.50	16.50
128.00	13.90
128.50	11.40
129.00	9.10
129.50	6.80
130.00	4.30
130.50	1.80

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January 25, 2000 03:11:14 PM  
 File name = C:\data\K32.txt  
 Topography file = C:\data\Topo\_K32.txt

x = distance (m)  
 ho = still water depth (cm)  
 T = period (sec)  
 H = wave height (cm)  
 MWL = mean water level (cm)

x (m)	ho (cm)	T (sec)	H (cm)	MWL (cm)
35.00	450.00	6.00	110.00	0.00
35.50	449.10	6.00	110.03	-4.05
36.00	449.80	6.00	110.01	-4.05
36.50	450.00	6.00	110.00	-4.05
37.00	450.00	6.00	110.00	-4.05
37.50	450.00	6.00	110.00	-4.05
38.00	450.00	6.00	110.00	-4.05
38.50	450.00	6.00	110.00	-4.05
39.00	450.10	6.00	110.00	-4.05
39.50	450.40	6.00	109.99	-4.05
40.00	450.10	6.00	110.00	-4.05
40.50	448.80	6.00	110.04	-4.05
41.00	446.80	6.00	110.10	-4.06
41.50	444.40	6.00	110.17	-4.07
42.00	442.00	6.00	110.24	-4.08
42.50	439.50	6.00	110.32	-4.10
43.00	437.00	6.00	110.40	-4.11
43.50	434.40	6.00	110.49	-4.12
44.00	431.80	6.00	110.57	-4.13
44.50	429.00	6.00	110.66	-4.15
45.00	426.10	6.00	110.76	-4.16
45.50	423.50	6.00	110.85	-4.17
46.00	421.00	6.00	110.94	-4.19
46.50	418.50	6.00	111.02	-4.20
47.00	416.20	6.00	111.10	-4.21
47.50	414.00	6.00	111.18	-4.22
48.00	412.00	6.00	111.25	-4.24
48.50	409.90	6.00	111.33	-4.25
49.00	407.80	6.00	111.41	-4.26
49.50	405.40	6.00	111.50	-4.27
50.00	402.90	6.00	111.59	-4.29
50.50	400.50	6.00	111.68	-4.30
51.00	398.10	6.00	111.78	-4.31
51.50	395.90	6.00	111.86	-4.33
52.00	393.50	6.00	111.96	-4.34
52.50	390.90	6.00	112.06	-4.36
53.00	388.10	6.00	112.18	-4.38
53.50	385.50	6.00	112.28	-4.39
54.00	382.90	6.00	112.39	-4.41
54.50	380.50	6.00	112.49	-4.43
55.00	378.10	6.00	112.60	-4.44
55.50	375.90	6.00	112.69	-4.46
56.00	373.70	6.00	112.79	-4.47
56.50	371.40	6.00	112.89	-4.49
57.00	369.10	6.00	112.99	-4.51
57.50	366.90	6.00	113.09	-4.52
58.00	364.60	6.00	113.20	-4.54
58.50	362.30	6.00	113.31	-4.56
59.00	360.20	6.00	113.40	-4.57
59.50	358.20	6.00	113.50	-4.59



60.00	355.10	6.00	113.65	-4.61
60.50	351.40	6.00	113.83	-4.64
61.00	348.40	6.00	113.98	-4.67
61.50	345.60	6.00	114.12	-4.69
62.00	343.00	6.00	114.26	-4.71
62.50	340.50	6.00	114.39	-4.74
63.00	337.80	6.00	114.53	-4.76
63.50	335.00	6.00	114.68	-4.79
64.00	332.00	6.00	114.85	-4.82
64.50	329.00	6.00	115.01	-4.84
65.00	326.10	6.00	115.18	-4.87
65.50	323.20	6.00	115.34	-4.90
66.00	320.30	6.00	115.51	-4.93
66.50	317.70	6.00	115.67	-4.96
67.00	315.10	6.00	115.82	-4.99
67.50	312.60	6.00	115.98	-5.02
68.00	310.10	6.00	116.13	-5.04
68.50	307.70	6.00	116.28	-5.07
69.00	305.30	6.00	116.44	-5.10
69.50	303.10	6.00	116.58	-5.13
70.00	300.80	6.00	116.73	-5.15
70.50	298.40	6.00	116.89	-5.18
71.00	296.00	6.00	117.05	-5.22
71.50	293.60	6.00	117.21	-5.25
72.00	291.10	6.00	117.39	-5.28
72.50	288.60	6.00	117.56	-5.31
73.00	286.10	6.00	117.74	-5.35
73.50	283.60	6.00	117.92	-5.38
74.00	281.10	6.00	118.10	-5.42
74.50	278.70	6.00	118.28	-5.46
75.00	276.40	6.00	118.46	-5.49
75.50	274.10	6.00	118.64	-5.53
76.00	271.80	6.00	118.81	-5.56
76.50	269.60	6.00	118.99	-5.60
77.00	267.30	6.00	119.17	-5.64
77.50	265.10	6.00	119.35	-5.68
78.00	262.90	6.00	119.53	-5.71
78.50	260.60	6.00	119.73	-5.76
79.00	258.30	6.00	119.92	-5.80
79.50	256.10	6.00	120.11	-5.84
80.00	253.70	6.00	120.32	-5.88
80.50	251.30	6.00	120.54	-5.93
81.00	248.70	6.00	120.77	-5.98
81.50	246.10	6.00	121.01	-6.04
82.00	243.40	6.00	121.27	-6.10
82.50	240.60	6.00	121.53	-6.16
83.00	237.90	6.00	121.80	-6.22
83.50	235.20	6.00	122.07	-6.28
84.00	232.50	6.00	122.34	-6.35
84.50	229.80	6.00	122.62	-6.41
85.00	227.30	6.00	122.88	-6.48
85.50	224.70	6.00	123.16	-6.55
86.00	222.30	6.00	123.42	-6.61
86.50	219.90	6.00	123.69	-6.68
87.00	217.50	6.00	123.96	-6.75
87.50	215.20	6.00	124.23	-6.82
88.00	212.80	6.00	124.51	-6.89
88.50	210.40	6.00	124.80	-6.97
89.00	208.00	6.00	125.09	-7.04
89.50	205.50	6.00	125.40	-7.13
90.00	202.90	6.00	125.73	-7.22
90.50	200.20	6.00	126.08	-7.32
91.00	197.50	6.00	126.44	-7.42
91.50	194.80	6.00	126.81	-7.52
92.00	191.80	6.00	125.61	-7.27
92.50	188.60	6.00	124.36	-7.00
93.00	184.80	6.00	123.11	-6.73

93.50	180.20	6.00	121.83	-6.45
94.00	174.50	6.00	120.52	-6.17
94.50	170.80	6.00	118.93	-5.79
95.00	169.60	6.00	117.26	-5.38
95.50	167.80	6.00	115.84	-5.04
96.00	165.70	6.00	114.42	-4.70
96.50	163.20	6.00	113.01	-4.37
97.00	160.50	6.00	111.62	-4.04
97.50	157.60	6.00	110.20	-3.70
98.00	154.80	6.00	108.74	-3.35
98.50	152.10	6.00	107.31	-3.00
99.00	149.60	6.00	105.84	-2.64
99.50	147.20	6.00	104.41	-2.30
100.00	144.70	6.00	103.00	-1.95
100.50	142.30	6.00	101.56	-1.60
101.00	140.00	6.00	100.10	-1.24
101.50	137.70	6.00	98.65	-0.88
102.00	135.50	6.00	97.18	-0.51
102.50	133.30	6.00	95.78	-0.17
103.00	131.10	6.00	94.38	0.18
103.50	128.80	6.00	93.00	0.52
104.00	126.40	6.00	91.58	0.87
104.50	124.00	6.00	90.15	1.23
105.00	121.70	6.00	88.77	1.57
105.50	119.50	6.00	87.37	1.92
106.00	117.20	6.00	85.99	2.26
106.50	114.90	6.00	84.60	2.61
107.00	112.70	6.00	83.21	2.96
107.50	110.60	6.00	81.80	3.31
108.00	108.50	6.00	80.40	3.66
108.50	106.70	6.00	79.02	4.01
109.00	105.40	6.00	77.59	4.37
109.50	104.70	6.00	76.17	4.72
110.00	104.00	6.00	74.83	5.05
110.50	102.30	6.00	73.71	5.32
111.00	100.00	6.00	72.57	5.59
111.50	97.50	6.00	71.45	5.86
112.00	95.20	6.00	70.27	6.14
112.50	92.80	6.00	69.10	6.42
113.00	90.10	6.00	67.96	6.70
113.50	87.20	6.00	66.76	6.99
114.00	84.30	6.00	65.53	7.30
114.50	81.50	6.00	64.30	7.61
115.00	78.90	6.00	63.00	7.94
115.50	76.40	6.00	61.74	8.26
116.00	74.00	6.00	60.43	8.59
116.50	71.50	6.00	59.14	8.93
117.00	68.90	6.00	57.85	9.26
117.50	66.20	6.00	56.55	9.60
118.00	63.60	6.00	55.22	9.95
118.50	60.90	6.00	53.88	10.30
119.00	58.30	6.00	52.49	10.67
119.50	55.70	6.00	51.16	11.03
120.00	53.00	6.00	49.82	11.39
120.50	50.40	6.00	48.44	11.76
121.00	47.80	6.00	47.04	12.14
121.50	45.10	6.00	45.65	12.52
122.00	42.50	6.00	44.22	12.91
122.50	40.00	6.00	42.82	13.30
123.00	37.70	6.00	41.39	13.69
123.50	35.40	6.00	39.98	14.08
124.00	33.20	6.00	38.63	14.44
124.50	30.90	6.00	37.34	14.79
125.00	28.70	6.00	36.04	15.15
125.50	26.50	6.00	34.76	15.49
126.00	24.10	6.00	33.54	15.82
126.50	21.60	6.00	32.33	16.15

127.00	19.10	6.00	31.11	16.48
127.50	16.50	6.00	29.88	16.82
128.00	13.90	6.00	28.62	17.16
128.50	11.40	6.00	27.33	17.51
129.00	9.10	6.00	26.09	17.85
129.50	6.80	6.00	24.91	18.17
130.00	4.30	6.00	23.80	18.46
130.50	1.80	6.00	22.60	18.78

### Beach Profile

Hi = 110 cm. Ti = 6 sec. Topography = C:\data\Topo\_K32.txt

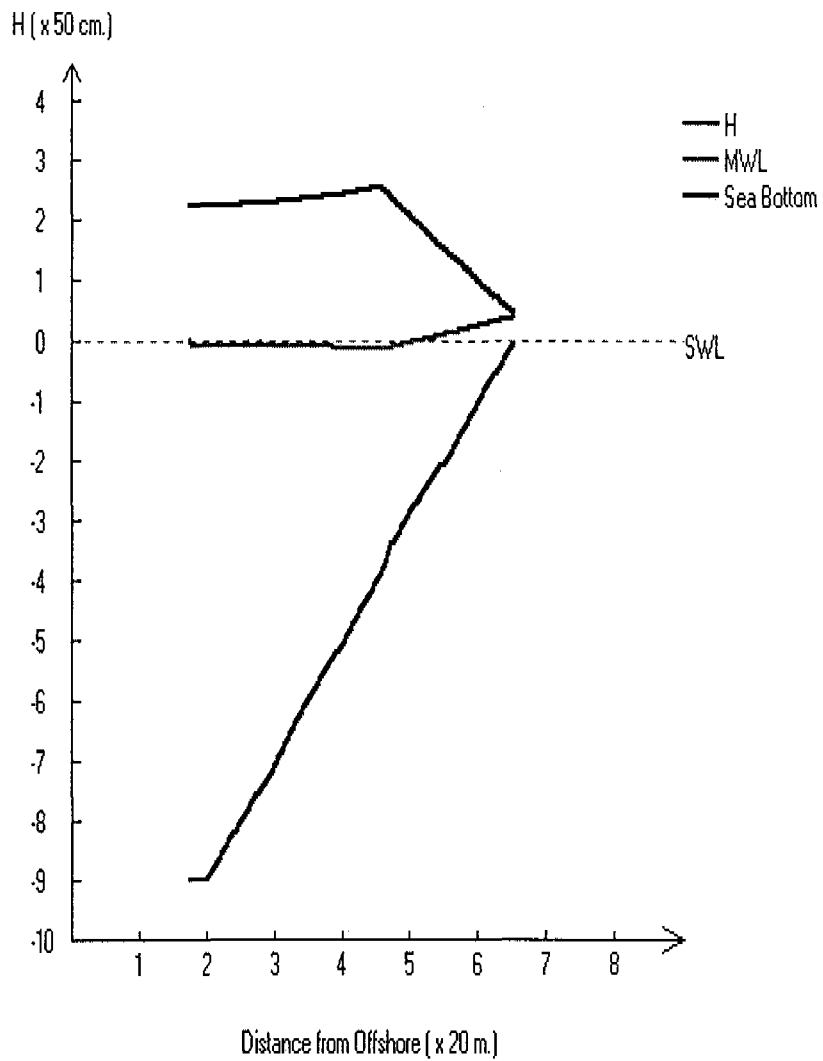


Fig. C.3 The beach profile and wave height transformation of regular wave model case 3.2 by using the experimental condition from Kajima et al. (1983)

Regular wave model case: = 4.3  
 Incident wave height = 151.00 cm  
 Wave period = 3.10 sec  
 Topography file: Topo\_K43.txt  
 Output file: K43.txt

x (m)	$h_0$ (cm)
5.00	400.00
5.50	397.90
6.00	397.70
6.50	396.50
7.00	395.00
7.50	393.50
8.00	392.00
8.50	390.50
9.00	389.00
9.50	387.50
10.00	386.00
10.50	384.50
11.00	382.80
11.50	381.00
12.00	379.00
12.50	377.00
13.00	374.80
13.50	372.50
14.00	370.10
14.50	368.00
15.00	366.00
15.50	364.00
16.00	362.00
16.50	360.00
17.00	358.00
17.50	356.00
18.00	354.00
18.50	352.00
19.00	350.20
19.50	348.50
20.00	347.00
20.50	345.50
21.00	344.00
21.50	342.50
22.00	341.00
22.50	339.50
23.00	338.00
23.50	336.50
24.00	335.20
24.50	334.00
25.00	332.80
25.50	331.40
26.00	330.00
26.50	328.50
27.00	327.00
27.50	325.50
28.00	324.00
28.50	322.60
29.00	321.20
29.50	320.00
30.00	318.80
30.50	317.40
31.00	315.80
31.50	314.00
32.00	312.20
32.50	310.60
33.00	309.00
33.50	307.50
34.00	306.00

34.50	304.60
35.00	303.20
35.50	302.10
36.00	301.60
36.50	300.10
37.00	297.50
37.50	295.70
38.00	294.00
38.50	292.40
39.00	290.60
39.50	288.70
40.00	286.80
40.50	285.30
41.00	283.90
41.50	282.50
42.00	281.00
42.50	279.50
43.00	277.80
43.50	276.10
44.00	274.40
44.50	272.80
45.00	271.30
45.50	270.00
46.00	268.50
46.50	267.00
47.00	265.40
47.50	263.80
48.00	262.40
48.50	261.10
49.00	259.70
49.50	258.30
50.00	256.60
50.50	254.70
51.00	252.20
51.50	248.70
52.00	243.60
52.50	241.40
53.00	242.40
53.50	242.10
54.00	241.00
54.50	239.60
55.00	238.20
55.50	236.80
56.00	235.50
56.50	234.20
57.00	232.80
57.50	231.30
58.00	229.60
58.50	227.90
59.00	226.30
59.50	224.80
60.00	223.40
60.50	222.10
61.00	220.60
61.50	219.00
62.00	217.70
62.50	216.60
63.00	215.50
63.50	214.40
64.00	213.20
64.50	211.90
65.00	210.70
65.50	209.60
66.00	208.30
66.50	206.90
67.00	205.40
67.50	204.00

68.00	202.50
68.50	201.10
69.00	199.60
69.50	198.10
70.00	196.70
70.50	195.20
71.00	193.80
71.50	192.30
72.00	190.90
72.50	189.50
73.00	188.30
73.50	187.80
74.00	187.10
74.50	185.40
75.00	183.50
75.50	181.60
76.00	180.00
76.50	178.50
77.00	177.30
77.50	176.10
78.00	174.70
78.50	173.10
79.00	171.60
79.50	170.00
80.00	168.50
80.50	167.00
81.00	165.40
81.50	163.90
82.00	162.30
82.50	160.80
83.00	159.30
83.50	157.70
84.00	156.20
84.50	154.70
85.00	153.10
85.50	151.60
86.00	150.10
86.50	148.50
87.00	147.00
87.50	145.60
88.00	144.30
88.50	143.20
89.00	141.80
89.50	140.40
90.00	139.10
90.50	137.90
91.00	136.40
91.50	134.50
92.00	132.80
92.50	131.20
93.00	129.70
93.50	128.20
94.00	126.70
94.50	125.10
95.00	123.60
95.50	122.10
96.00	120.60
96.50	119.10
97.00	117.60
97.50	116.00
98.00	114.50
98.50	112.90
99.00	111.20
99.50	109.20
100.00	107.20
100.50	105.30
101.00	103.60

101.50	102.00
102.00	100.50
102.50	99.10
103.00	97.80
103.50	96.70
104.00	95.40
104.50	93.90
105.00	92.40



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Civil Engineering Program  
Sirindhorn International Institute of Technology

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January 25, 2000 03:11:47 PM  
 File name = C:\data\K43.txt  
 Topography file = C:\data\Topo\_K43.txt

x = distance (m)  
 ho = still water depth (cm)  
 T = period (sec)  
 H = wave height (cm)  
 MWL = mean water level (cm)

x (m)	ho (cm)	T (sec)	H (cm)	MWL (cm)
5.00	400.00	3.10	151.00	0.00
5.50	397.90	3.10	150.92	-5.15
6.00	397.70	3.10	150.92	-5.16
6.50	396.50	3.10	150.87	-5.16
7.00	395.00	3.10	150.82	-5.17
7.50	393.50	3.10	150.76	-5.18
8.00	392.00	3.10	150.71	-5.19
8.50	390.50	3.10	150.65	-5.20
9.00	389.00	3.10	150.60	-5.21
9.50	387.50	3.10	150.54	-5.22
10.00	386.00	3.10	150.49	-5.22
10.50	384.50	3.10	150.43	-5.23
11.00	382.80	3.10	150.37	-5.24
11.50	381.00	3.10	150.31	-5.26
12.00	379.00	3.10	150.23	-5.27
12.50	377.00	3.10	150.16	-5.28
13.00	374.80	3.10	150.08	-5.30
13.50	372.50	3.10	150.00	-5.31
14.00	370.10	3.10	149.92	-5.33
14.50	368.00	3.10	149.84	-5.34
15.00	366.00	3.10	149.77	-5.36
15.50	364.00	3.10	149.70	-5.37
16.00	362.00	3.10	149.63	-5.39
16.50	360.00	3.10	149.56	-5.40
17.00	358.00	3.10	149.50	-5.42
17.50	356.00	3.10	149.43	-5.43
18.00	354.00	3.10	149.36	-5.45
18.50	352.00	3.10	149.29	-5.46
19.00	350.20	3.10	149.23	-5.48
19.50	348.50	3.10	149.18	-5.49
20.00	347.00	3.10	149.13	-5.50
20.50	345.50	3.10	149.08	-5.52
21.00	344.00	3.10	149.03	-5.53
21.50	342.50	3.10	148.98	-5.54
22.00	341.00	3.10	148.93	-5.56
22.50	339.50	3.10	148.88	-5.57
23.00	338.00	3.10	148.84	-5.58
23.50	336.50	3.10	148.79	-5.60
24.00	335.20	3.10	148.75	-5.61
24.50	334.00	3.10	148.71	-5.62
25.00	332.80	3.10	148.67	-5.63
25.50	331.40	3.10	148.63	-5.64
26.00	330.00	3.10	148.59	-5.66
26.50	328.50	3.10	148.54	-5.67
27.00	327.00	3.10	148.50	-5.69
27.50	325.50	3.10	148.46	-5.70
28.00	324.00	3.10	148.41	-5.72
28.50	322.60	3.10	148.37	-5.73
29.00	321.20	3.10	148.33	-5.74
29.50	320.00	3.10	148.30	-5.76

30.00	318.80	3.10	148.26	-5.77
30.50	317.40	3.10	148.23	-5.78
31.00	315.80	3.10	148.18	-5.80
31.50	314.00	3.10	148.13	-5.82
32.00	312.20	3.10	148.08	-5.84
32.50	310.60	3.10	148.04	-5.86
33.00	309.00	3.10	148.00	-5.88
33.50	307.50	3.10	147.96	-5.89
34.00	306.00	3.10	147.93	-5.91
34.50	304.60	3.10	147.89	-5.93
35.00	303.20	3.10	147.86	-5.95
35.50	302.10	3.10	147.83	-5.96
36.00	301.60	3.10	147.82	-5.96
36.50	300.10	3.10	147.78	-5.98
37.00	297.50	3.10	147.73	-6.02
37.50	295.70	3.10	147.69	-6.04
38.00	294.00	3.10	147.65	-6.06
38.50	292.40	3.10	147.61	-6.08
39.00	290.60	3.10	147.58	-6.11
39.50	288.70	3.10	147.54	-6.13
40.00	286.80	3.10	147.50	-6.16
40.50	285.30	3.10	147.48	-6.18
41.00	283.90	3.10	147.45	-6.20
41.50	282.50	3.10	147.42	-6.22
42.00	281.00	3.10	147.40	-6.24
42.50	279.50	3.10	147.37	-6.26
43.00	277.80	3.10	147.35	-6.29
43.50	276.10	3.10	147.32	-6.32
44.00	274.40	3.10	147.30	-6.34
44.50	272.80	3.10	147.27	-6.37
45.00	271.30	3.10	147.25	-6.39
45.50	270.00	3.10	147.24	-6.41
46.00	268.50	3.10	147.22	-6.44
46.50	267.00	3.10	147.20	-6.46
47.00	265.40	3.10	147.18	-6.49
47.50	263.80	3.10	147.17	-6.52
48.00	262.40	3.10	147.15	-6.54
48.50	261.10	3.10	147.14	-6.57
49.00	259.70	3.10	147.13	-6.59
49.50	258.30	3.10	147.12	-6.62
50.00	256.60	3.10	147.11	-6.65
50.50	254.70	3.10	147.10	-6.69
51.00	252.20	3.10	147.08	-6.73
51.50	248.70	3.10	147.07	-6.81
52.00	243.60	3.10	147.07	-6.91
52.50	241.40	3.10	145.17	-6.68
53.00	242.40	3.10	143.47	-6.41
53.50	242.10	3.10	143.47	-6.42
54.00	241.00	3.10	143.47	-6.44
54.50	239.60	3.10	143.47	-6.47
55.00	238.20	3.10	141.74	-6.25
55.50	236.80	3.10	141.75	-6.28
56.00	235.50	3.10	141.75	-6.30
56.50	234.20	3.10	140.01	-6.07
57.00	232.80	3.10	140.02	-6.10
57.50	231.30	3.10	140.03	-6.13
58.00	229.60	3.10	138.27	-5.90
58.50	227.90	3.10	138.29	-5.93
59.00	226.30	3.10	136.53	-5.70
59.50	224.80	3.10	136.54	-5.73
60.00	223.40	3.10	134.82	-5.49
60.50	222.10	3.10	134.84	-5.52
61.00	220.60	3.10	134.86	-5.55
61.50	219.00	3.10	133.13	-5.32
62.00	217.70	3.10	133.14	-5.34
62.50	216.60	3.10	133.16	-5.37
63.00	215.50	3.10	131.46	-5.13

63.50	214.40	3.10	131.47	-5.15
64.00	213.20	3.10	131.50	-5.17
64.50	211.90	3.10	129.79	-4.93
65.00	210.70	3.10	129.81	-4.95
65.50	209.60	3.10	129.83	-4.98
66.00	208.30	3.10	128.11	-4.73
66.50	206.90	3.10	128.14	-4.76
67.00	205.40	3.10	128.17	-4.80
67.50	204.00	3.10	126.44	-4.55
68.00	202.50	3.10	126.47	-4.58
68.50	201.10	3.10	124.73	-4.32
69.00	199.60	3.10	124.76	-4.35
69.50	198.10	3.10	123.03	-4.10
70.00	196.70	3.10	123.07	-4.13
70.50	195.20	3.10	123.11	-4.17
71.00	193.80	3.10	121.34	-3.90
71.50	192.30	3.10	121.39	-3.94
72.00	190.90	3.10	119.63	-3.67
72.50	189.50	3.10	119.66	-3.70
73.00	188.30	3.10	117.96	-3.44
73.50	187.80	3.10	117.96	-3.44
74.00	187.10	3.10	117.99	-3.46
74.50	185.40	3.10	118.05	-3.51
75.00	183.50	3.10	116.27	-3.24
75.50	181.60	3.10	116.35	-3.29
76.00	180.00	3.10	114.60	-3.01
76.50	178.50	3.10	114.66	-3.05
77.00	177.30	3.10	112.89	-2.76
77.50	176.10	3.10	112.94	-2.80
78.00	174.70	3.10	111.19	-2.51
78.50	173.10	3.10	111.26	-2.56
79.00	171.60	3.10	109.51	-2.27
79.50	170.00	3.10	109.58	-2.32
80.00	168.50	3.10	107.83	-2.03
80.50	167.00	3.10	107.90	-2.07
81.00	165.40	3.10	107.97	-2.11
81.50	163.90	3.10	106.25	-1.83
82.00	162.30	3.10	106.31	-1.87
82.50	160.80	3.10	104.59	-1.58
83.00	159.30	3.10	104.65	-1.62
83.50	157.70	3.10	102.93	-1.33
84.00	156.20	3.10	102.99	-1.37
84.50	154.70	3.10	101.26	-1.08
85.00	153.10	3.10	101.33	-1.11
85.50	151.60	3.10	99.57	-0.81
86.00	150.10	3.10	99.66	-0.85
86.50	148.50	3.10	97.90	-0.55
87.00	147.00	3.10	98.00	-0.60
87.50	145.60	3.10	96.27	-0.29
88.00	144.30	3.10	96.36	-0.33
88.50	143.20	3.10	94.61	-0.01
89.00	141.80	3.10	94.70	-0.06
89.50	140.40	3.10	92.99	0.25
90.00	139.10	3.10	93.08	0.21
90.50	137.90	3.10	91.35	0.52
91.00	136.40	3.10	91.45	0.48
91.50	134.50	3.10	91.56	0.43
92.00	132.80	3.10	89.84	0.73
92.50	131.20	3.10	88.12	1.05
93.00	129.70	3.10	88.20	1.01
93.50	128.20	3.10	86.55	1.31
94.00	126.70	3.10	86.64	1.27
94.50	125.10	3.10	84.99	1.57
95.00	123.60	3.10	85.08	1.53
95.50	122.10	3.10	83.37	1.85
96.00	120.60	3.10	83.49	1.80
96.50	119.10	3.10	81.78	2.13

97.00	117.60	3.10	81.90	2.08
97.50	116.00	3.10	80.19	2.40
98.00	114.50	3.10	78.50	2.72
98.50	112.90	3.10	78.64	2.67
99.00	111.20	3.10	76.95	2.99
99.50	109.20	3.10	77.10	2.94
100.00	107.20	3.10	75.45	3.25
100.50	105.30	3.10	73.77	3.57
101.00	103.60	3.10	73.90	3.52
101.50	102.00	3.10	72.22	3.85
102.00	100.50	3.10	70.59	4.18
102.50	99.10	3.10	70.72	4.13
103.00	97.80	3.10	69.05	4.46
103.50	96.70	3.10	69.16	4.42
104.00	95.40	3.10	67.55	4.74
104.50	93.90	3.10	67.70	4.69
105.00	92.40	3.10	66.04	5.03

## Beach Profile

$H_i = 151$  cm.  $T_i = 3.1$  sec. Topography = C:\data\Topo\_K43.txt

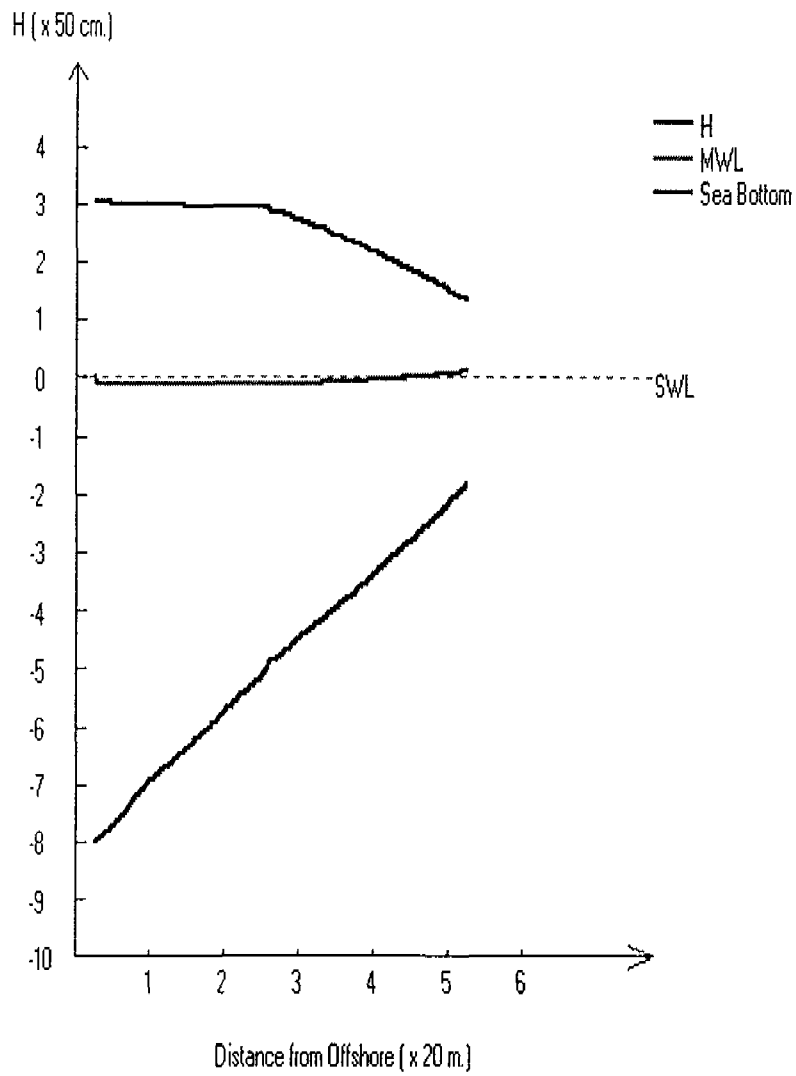


Fig. C.4 The beach profile and wave height transformation of regular wave model case 4.3 by using the experimental condition from Kajima et al. (1983)

Regular wave model case: = 5.2  
 Incident wave height = 74.00 cm  
 Wave period = 3.10 sec  
 Topography file: Topo\_K52.txt  
 Output file: K52.txt

x (m)	h <sub>o</sub> (cm)
5.00	350.00
5.50	349.90
6.00	350.00
6.50	349.50
7.00	349.00
7.50	348.00
8.00	347.00
8.50	345.50
9.00	344.00
9.50	342.50
10.00	340.90
10.50	338.00
11.00	335.00
11.50	332.50
12.00	329.90
12.50	326.00
13.00	321.90
13.50	317.50
14.00	312.90
14.50	308.00
15.00	303.00
15.50	298.00
16.00	293.00
16.50	288.50
17.00	283.90
17.50	279.00
18.00	274.00
18.50	269.00
19.00	264.00
19.50	258.90
20.00	253.90
20.50	248.40
21.00	242.90
21.50	237.40
22.00	232.10
22.50	227.00
23.00	222.40
23.50	218.60
24.00	215.40
24.50	213.10
25.00	211.30
25.50	210.10
26.00	209.00
26.50	208.00
27.00	207.20
27.50	206.50
28.00	205.70
28.50	204.50
29.00	203.20
29.50	202.00
30.00	201.00
30.50	200.00
31.00	199.00
31.50	198.00
32.00	197.20
32.50	196.50
33.00	196.00
33.50	195.50
34.00	194.80

34.50	194.00
35.00	193.20
35.50	192.50
36.00	191.80
36.50	191.00
37.00	190.00
37.50	188.80
38.00	187.30
38.50	185.20
39.00	183.50
39.50	183.20
40.00	183.10
40.50	182.40
41.00	181.30
41.50	180.60
42.00	179.80
42.50	179.00
43.00	178.20
43.50	177.50
44.00	176.80
44.50	175.90
45.00	174.80
45.50	173.50
46.00	172.20
46.50	171.00
47.00	169.80
47.50	168.50
48.00	167.20
48.50	166.10
49.00	165.00
49.50	164.00
50.00	163.00
50.50	162.10
51.00	161.20
51.50	160.50
52.00	159.80
52.50	159.00
53.00	158.20
53.50	157.40
54.00	156.50
54.50	155.40
55.00	154.20
55.50	153.00
56.00	151.80
56.50	150.50
57.00	149.30
57.50	148.10
58.00	147.10
58.50	146.20
59.00	145.50
59.50	145.30
60.00	144.30
60.50	142.50
61.00	141.20
61.50	140.10
62.00	139.10
62.50	138.00
63.00	136.80
63.50	135.60
64.00	134.40
64.50	133.20
65.00	132.10
65.50	131.10
66.00	130.20
66.50	129.20
67.00	128.40
67.50	127.70

68.00	127.00
68.50	126.30
69.00	125.50
69.50	124.50
70.00	123.40
70.50	122.40
71.00	121.50
71.50	120.60
72.00	119.70
72.50	118.70
73.00	117.30
73.50	115.30
74.00	114.00
74.50	113.70
75.00	113.00
75.50	112.10
76.00	111.10
76.50	110.10
77.00	109.10
77.50	108.10
78.00	107.00
78.50	105.80
79.00	104.80
79.50	104.00
80.00	103.20
80.50	102.40
81.00	101.70
81.50	101.00
82.00	100.30
82.50	99.40
83.00	98.50
83.50	97.50
84.00	96.50
84.50	95.50
85.00	94.30
85.50	93.00
86.00	91.80
86.50	90.70
87.00	89.80
87.50	89.20
88.00	88.60
88.50	87.70
89.00	86.90
89.50	86.30
90.00	85.70
90.50	85.10
91.00	84.10
91.50	82.70
92.00	81.50
92.50	80.40
93.00	79.10
93.50	77.70
94.00	76.70
94.50	76.00
95.00	75.20
95.50	74.20
96.00	73.20
96.50	72.20
97.00	71.20
97.50	70.20
98.00	69.00
98.50	67.60
99.00	66.50
99.50	65.80
100.00	65.10
100.50	64.10
101.00	62.90



101.50	61.50
102.00	60.20
102.50	59.10
103.00	57.90
103.50	56.50
104.00	55.20
104.50	54.20
105.00	53.20

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Civil Engineering Program  
Sirindhorn International Institute of Technology

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January 25, 2000 03:12:13 PM  
 File name = C:\data\K52.txt  
 Topography file = C:\data\Topo\_K52.txt

x = distance (m)  
 ho = still water depth (cm)  
 T = period (sec)  
 H = wave height (cm)  
 MWL = mean water level (cm)

x (m)	ho (cm)	T (sec)	H (cm)	MWL (cm)
5.00	350.00	3.10	74.00	0.00
5.50	349.90	3.10	74.00	-1.50
6.00	350.00	3.10	74.00	-1.50
6.50	349.50	3.10	73.99	-1.50
7.00	349.00	3.10	73.98	-1.51
7.50	348.00	3.10	73.97	-1.51
8.00	347.00	3.10	73.95	-1.51
8.50	345.50	3.10	73.93	-1.51
9.00	344.00	3.10	73.90	-1.52
9.50	342.50	3.10	73.88	-1.52
10.00	340.90	3.10	73.85	-1.52
10.50	338.00	3.10	73.81	-1.53
11.00	335.00	3.10	73.76	-1.53
11.50	332.50	3.10	73.72	-1.54
12.00	329.90	3.10	73.68	-1.55
12.50	326.00	3.10	73.62	-1.55
13.00	321.90	3.10	73.56	-1.56
13.50	317.50	3.10	73.50	-1.58
14.00	312.90	3.10	73.43	-1.59
14.50	308.00	3.10	73.37	-1.60
15.00	303.00	3.10	73.31	-1.61
15.50	298.00	3.10	73.25	-1.63
16.00	293.00	3.10	73.19	-1.64
16.50	288.50	3.10	73.14	-1.66
17.00	283.90	3.10	73.10	-1.67
17.50	279.00	3.10	73.05	-1.69
18.00	274.00	3.10	73.01	-1.71
18.50	269.00	3.10	72.97	-1.73
19.00	264.00	3.10	72.94	-1.75
19.50	258.90	3.10	72.91	-1.77
20.00	253.90	3.10	72.89	-1.79
20.50	248.40	3.10	72.88	-1.82
21.00	242.90	3.10	72.87	-1.84
21.50	237.40	3.10	72.87	-1.87
22.00	232.10	3.10	72.88	-1.90
22.50	227.00	3.10	72.89	-1.93
23.00	222.40	3.10	72.91	-1.96
23.50	218.60	3.10	72.94	-1.98
24.00	215.40	3.10	72.96	-2.01
24.50	213.10	3.10	72.98	-2.02
25.00	211.30	3.10	72.99	-2.03
25.50	210.10	3.10	73.01	-2.04
26.00	209.00	3.10	73.02	-2.05
26.50	208.00	3.10	73.03	-2.06
27.00	207.20	3.10	73.04	-2.06
27.50	206.50	3.10	73.04	-2.07
28.00	205.70	3.10	73.05	-2.08
28.50	204.50	3.10	73.07	-2.09
29.00	203.20	3.10	73.08	-2.10
29.50	202.00	3.10	73.10	-2.11

30.00	201.00	3.10	73.11	-2.11
30.50	200.00	3.10	73.13	-2.12
31.00	199.00	3.10	73.14	-2.13
31.50	198.00	3.10	73.16	-2.14
32.00	197.20	3.10	73.17	-2.14
32.50	196.50	3.10	73.18	-2.15
33.00	196.00	3.10	73.19	-2.16
33.50	195.50	3.10	73.20	-2.16
34.00	194.80	3.10	73.21	-2.17
34.50	194.00	3.10	73.22	-2.17
35.00	193.20	3.10	73.23	-2.18
35.50	192.50	3.10	73.25	-2.19
36.00	191.80	3.10	73.26	-2.19
36.50	191.00	3.10	73.27	-2.20
37.00	190.00	3.10	73.29	-2.21
37.50	188.80	3.10	73.32	-2.22
38.00	187.30	3.10	73.35	-2.24
38.50	185.20	3.10	73.39	-2.26
39.00	183.50	3.10	73.43	-2.27
39.50	183.20	3.10	73.43	-2.28
40.00	183.10	3.10	73.44	-2.28
40.50	182.40	3.10	73.45	-2.29
41.00	181.30	3.10	73.48	-2.30
41.50	180.60	3.10	73.49	-2.30
42.00	179.80	3.10	73.51	-2.31
42.50	179.00	3.10	73.53	-2.32
43.00	178.20	3.10	73.55	-2.33
43.50	177.50	3.10	73.57	-2.34
44.00	176.80	3.10	73.59	-2.35
44.50	175.90	3.10	73.61	-2.36
45.00	174.80	3.10	73.64	-2.37
45.50	173.50	3.10	73.68	-2.39
46.00	172.20	3.10	73.72	-2.40
46.50	171.00	3.10	73.75	-2.42
47.00	169.80	3.10	73.79	-2.43
47.50	168.50	3.10	73.83	-2.45
48.00	167.20	3.10	73.87	-2.46
48.50	166.10	3.10	73.91	-2.48
49.00	165.00	3.10	73.95	-2.49
49.50	164.00	3.10	73.98	-2.51
50.00	163.00	3.10	74.02	-2.52
50.50	162.10	3.10	74.05	-2.53
51.00	161.20	3.10	74.08	-2.55
51.50	160.50	3.10	74.11	-2.56
52.00	159.80	3.10	74.14	-2.57
52.50	159.00	3.10	74.17	-2.58
53.00	158.20	3.10	74.20	-2.59
53.50	157.40	3.10	74.23	-2.60
54.00	156.50	3.10	74.27	-2.62
54.50	155.40	3.10	74.31	-2.63
55.00	154.20	3.10	74.36	-2.65
55.50	153.00	3.10	74.41	-2.67
56.00	151.80	3.10	74.47	-2.69
56.50	150.50	3.10	74.53	-2.72
57.00	149.30	3.10	74.58	-2.74
57.50	148.10	3.10	74.64	-2.76
58.00	147.10	3.10	74.69	-2.78
58.50	146.20	3.10	74.73	-2.79
59.00	145.50	3.10	74.77	-2.81
59.50	145.30	3.10	74.78	-2.81
60.00	144.30	3.10	74.83	-2.83
60.50	142.50	3.10	74.93	-2.87
61.00	141.20	3.10	75.00	-2.89
61.50	140.10	3.10	75.06	-2.91
62.00	139.10	3.10	75.12	-2.94
62.50	138.00	3.10	75.18	-2.96
63.00	136.80	3.10	75.25	-2.99

63.50	135.60	3.10	75.32	-3.01
64.00	134.40	3.10	75.40	-3.04
64.50	133.20	3.10	75.48	-3.07
65.00	132.10	3.10	75.55	-3.10
65.50	131.10	3.10	75.61	-3.12
66.00	130.20	3.10	75.67	-3.14
66.50	129.20	3.10	75.74	-3.17
67.00	128.40	3.10	75.80	-3.19
67.50	127.70	3.10	75.85	-3.21
68.00	127.00	3.10	75.90	-3.23
68.50	126.30	3.10	75.95	-3.25
69.00	125.50	3.10	76.01	-3.27
69.50	124.50	3.10	76.09	-3.30
70.00	123.40	3.10	76.17	-3.33
70.50	122.40	3.10	76.25	-3.36
71.00	121.50	3.10	76.32	-3.39
71.50	120.60	3.10	76.40	-3.42
72.00	119.70	3.10	76.47	-3.44
72.50	118.70	3.10	76.56	-3.48
73.00	117.30	3.10	76.68	-3.52
73.50	115.30	3.10	76.86	-3.59
74.00	114.00	3.10	75.18	-3.26
74.50	113.70	3.10	73.45	-2.91
75.00	113.00	3.10	73.51	-2.94
75.50	112.10	3.10	73.56	-2.96
76.00	111.10	3.10	73.65	-2.99
76.50	110.10	3.10	71.94	-2.65
77.00	109.10	3.10	72.03	-2.68
77.50	108.10	3.10	70.38	-2.35
78.00	107.00	3.10	70.45	-2.38
78.50	105.80	3.10	70.57	-2.42
79.00	104.80	3.10	68.90	-2.08
79.50	104.00	3.10	68.98	-2.11
80.00	103.20	3.10	67.33	-1.78
80.50	102.40	3.10	67.41	-1.80
81.00	101.70	3.10	67.48	-1.83
81.50	101.00	3.10	65.82	-1.49
82.00	100.30	3.10	65.89	-1.51
82.50	99.40	3.10	65.98	-1.54
83.00	98.50	3.10	66.04	-1.56
83.50	97.50	3.10	64.43	-1.24
84.00	96.50	3.10	64.54	-1.27
84.50	95.50	3.10	62.90	-0.94
85.00	94.30	3.10	63.02	-0.98
85.50	93.00	3.10	63.12	-1.01
86.00	91.80	3.10	61.51	-0.68
86.50	90.70	3.10	61.59	-0.71
87.00	89.80	3.10	59.97	-0.37
87.50	89.20	3.10	60.04	-0.39
88.00	88.60	3.10	60.10	-0.41
88.50	87.70	3.10	58.54	-0.09
89.00	86.90	3.10	58.59	-0.11
89.50	86.30	3.10	58.66	-0.13
90.00	85.70	3.10	57.04	0.22
90.50	85.10	3.10	57.10	0.20
91.00	84.10	3.10	57.21	0.16
91.50	82.70	3.10	55.69	0.48
92.00	81.50	3.10	55.82	0.43
92.50	80.40	3.10	54.25	0.77
93.00	79.10	3.10	54.40	0.72
93.50	77.70	3.10	52.86	1.04
94.00	76.70	3.10	52.93	1.02
94.50	76.00	3.10	51.37	1.35
95.00	75.20	3.10	51.47	1.32
95.50	74.20	3.10	51.54	1.30
96.00	73.20	3.10	50.07	1.61
96.50	72.20	3.10	50.15	1.59

97.00	71.20	3.10	48.69	1.90
97.50	70.20	3.10	48.77	1.87
98.00	69.00	3.10	48.92	1.83
98.50	67.60	3.10	47.40	2.15
99.00	66.50	3.10	45.92	2.47
99.50	65.80	3.10	46.01	2.45
100.00	65.10	3.10	46.06	2.43
100.50	64.10	3.10	44.61	2.74
101.00	62.90	3.10	44.72	2.71
101.50	61.50	3.10	43.33	3.01
102.00	60.20	3.10	43.45	2.97
102.50	59.10	3.10	41.94	3.31
103.00	57.90	3.10	42.10	3.26
103.50	56.50	3.10	40.69	3.57
104.00	55.20	3.10	40.81	3.53
104.50	54.20	3.10	39.38	3.85
105.00	53.20	3.10	37.98	4.16

## Beach Profile

$H_i = 74$  cm.  $T_i = 3.1$  sec. Topography = C:\data\Topo\_K52.txt

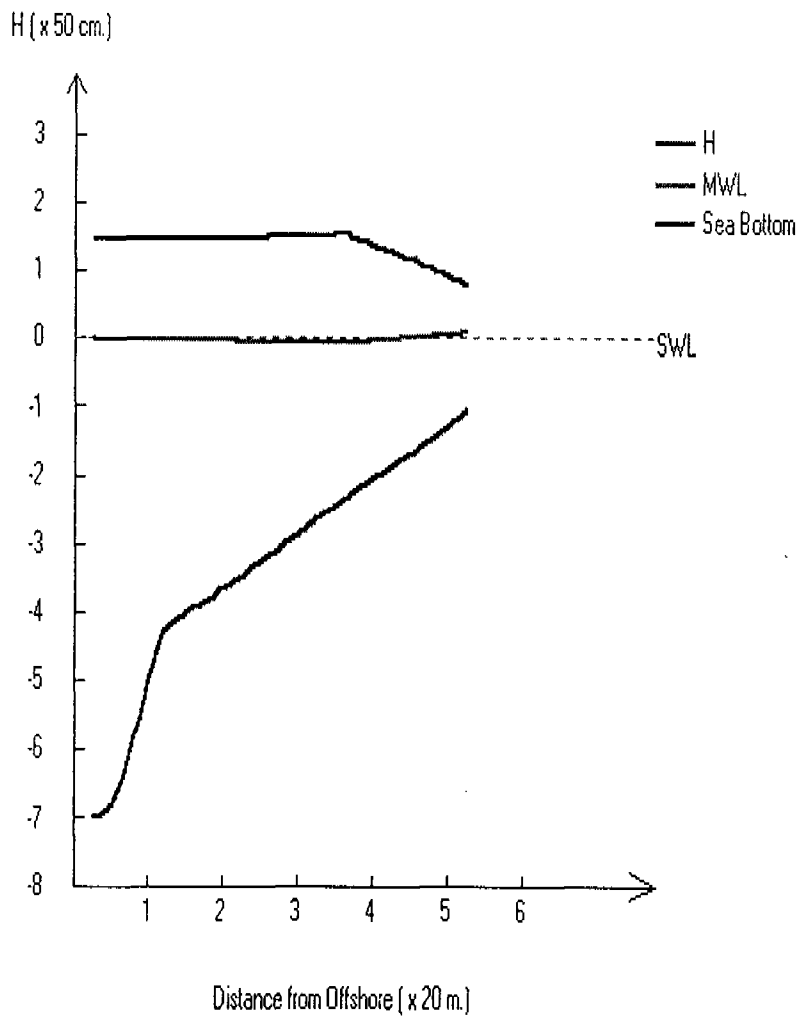


Fig. C.5 The beach profile and wave height transformation of regular wave model case 5.2 by using the experimental condition from Kajima et al. (1983)

Regular wave model case: = 6.1  
 Incident wave height = 166.00 cm  
 Wave period = 5.00 sec  
 Topography file: Topo\_K61.txt  
 Output file: K61.txt

x (m)	$h_0$ (cm)
51.00	398.00
51.50	397.90
52.00	397.90
52.50	398.00
53.00	398.00
53.50	398.00
54.00	398.00
54.50	398.00
55.00	398.10
55.50	398.10
56.00	398.20
56.50	398.30
57.00	398.40
57.50	398.30
58.00	398.20
58.50	398.00
59.00	397.80
59.50	397.40
60.00	396.70
60.50	395.70
61.00	394.30
61.50	392.60
62.00	390.50
62.50	388.30
63.00	385.80
63.50	383.10
64.00	380.20
64.50	377.10
65.00	373.70
65.50	370.20
66.00	366.50
66.50	362.60
67.00	358.50
67.50	354.20
68.00	349.80
68.50	345.30
69.00	340.70
69.50	336.00
70.00	331.20
70.50	326.20
71.00	321.20
71.50	316.10
72.00	311.10
72.50	306.10
73.00	301.00
73.50	296.10
74.00	291.10
74.50	286.10
75.00	281.20
75.50	276.30
76.00	271.30
76.50	266.10
77.00	260.50
77.50	254.40
78.00	247.50
78.50	239.30
79.00	229.80
79.50	218.70
80.00	211.00

80.50	207.30
81.00	203.30
81.50	199.00
82.00	194.50
82.50	189.80
83.00	185.00
83.50	180.20
84.00	175.50
84.50	171.00
85.00	166.70
85.50	162.40
86.00	158.10
86.50	153.90
87.00	149.90
87.50	146.10
88.00	142.40
88.50	138.90
89.00	135.40
89.50	132.10
90.00	128.80
90.50	125.60
91.00	122.60
91.50	119.70
92.00	116.90
92.50	114.40
93.00	112.00
93.50	109.80
94.00	107.60
94.50	104.90
95.00	101.00
95.50	96.30
96.00	91.20
96.50	85.70
97.00	79.70
97.50	73.60
98.00	67.30
98.50	61.10
99.00	55.10
99.50	49.50
100.00	44.40
100.50	39.90
101.00	35.70
101.50	31.20
102.00	23.40
102.50	13.40
103.00	6.00
103.50	0.20



Civil Engineering Program  
Sirindhorn International Institute of Technology

January 25, 2000 03:12:39 PM  
File name = C:\data\K61.txt  
Topography file = C:\data\Topo\_K61.txt

x = distance (m)  
ho = still water depth (cm)  
T = period (sec)  
H = wave height (cm)  
MWL = mean water level (cm)

x (m)	ho (cm)	T (sec)	H (cm)	MWL (cm)
51.00	398.00	5.00	166.00	0.00
51.50	397.90	5.00	166.00	-9.95
52.00	397.90	5.00	166.00	-9.95
52.50	398.00	5.00	166.00	-9.95
53.00	398.00	5.00	166.00	-9.95
53.50	398.00	5.00	166.00	-9.95
54.00	398.00	5.00	166.00	-9.95
54.50	398.00	5.00	166.00	-9.95
55.00	398.10	5.00	166.00	-9.95
55.50	398.10	5.00	166.00	-9.95
56.00	398.20	5.00	165.99	-9.95
56.50	398.30	5.00	165.99	-9.95
57.00	398.40	5.00	165.98	-9.95
57.50	398.30	5.00	165.99	-9.95
58.00	398.20	5.00	165.99	-9.95
58.50	398.00	5.00	166.00	-9.95
59.00	397.80	5.00	166.01	-9.96
59.50	397.40	5.00	166.02	-9.96
60.00	396.70	5.00	166.05	-9.97
60.50	395.70	5.00	166.09	-9.98
61.00	394.30	5.00	166.14	-10.00
61.50	392.60	5.00	166.21	-10.02
62.00	390.50	5.00	166.30	-10.05
62.50	388.30	5.00	166.38	-10.08
63.00	385.80	5.00	166.49	-10.11
63.50	383.10	5.00	166.60	-10.15
64.00	380.20	5.00	166.73	-10.19
64.50	377.10	5.00	166.87	-10.23
65.00	373.70	5.00	167.02	-10.28
65.50	370.20	5.00	167.18	-10.33
66.00	366.50	5.00	167.36	-10.39
66.50	362.60	5.00	167.55	-10.45
67.00	358.50	5.00	167.76	-10.51
67.50	354.20	5.00	167.98	-10.59
68.00	349.80	5.00	168.22	-10.66
68.50	345.30	5.00	168.47	-10.74
69.00	340.70	5.00	168.73	-10.83
69.50	336.00	5.00	169.01	-10.92
70.00	331.20	5.00	169.31	-11.01
70.50	326.20	5.00	169.63	-11.11
71.00	321.20	5.00	169.96	-11.22
71.50	316.10	5.00	170.31	-11.34
72.00	311.10	5.00	170.66	-11.45
72.50	306.10	5.00	171.04	-11.58
73.00	301.00	5.00	171.43	-11.71
73.50	296.10	5.00	171.82	-11.84
74.00	291.10	5.00	172.23	-11.98
74.50	286.10	5.00	172.66	-12.13
75.00	281.20	5.00	173.10	-12.28
75.50	276.30	5.00	173.56	-12.43

76.00	271.30	5.00	174.04	-12.61
76.50	266.10	5.00	174.56	-12.79
77.00	260.50	5.00	172.92	-12.52
77.50	254.40	5.00	171.26	-12.24
78.00	247.50	5.00	169.52	-11.94
78.50	239.30	5.00	167.75	-11.64
79.00	229.80	5.00	165.98	-11.35
79.50	218.70	5.00	164.25	-11.08
80.00	211.00	5.00	162.07	-10.63
80.50	207.30	5.00	159.70	-10.05
81.00	203.30	5.00	157.64	-9.56
81.50	199.00	5.00	155.56	-9.06
82.00	194.50	5.00	153.49	-8.56
82.50	189.80	5.00	151.37	-8.04
83.00	185.00	5.00	149.24	-7.51
83.50	180.20	5.00	147.07	-6.96
84.00	175.50	5.00	144.85	-6.39
84.50	171.00	5.00	142.60	-5.80
85.00	166.70	5.00	140.33	-5.19
85.50	162.40	5.00	138.04	-4.57
86.00	158.10	5.00	135.72	-3.93
86.50	153.90	5.00	133.40	-3.28
87.00	149.90	5.00	131.01	-2.60
87.50	146.10	5.00	128.62	-1.92
88.00	142.40	5.00	126.23	-1.23
88.50	138.90	5.00	123.80	-0.51
89.00	135.40	5.00	121.41	0.19
89.50	132.10	5.00	118.98	0.91
90.00	128.80	5.00	116.55	1.62
90.50	125.60	5.00	114.15	2.34
91.00	122.60	5.00	111.73	3.06
91.50	119.70	5.00	109.30	3.78
92.00	116.90	5.00	106.92	4.49
92.50	114.40	5.00	104.52	5.21
93.00	112.00	5.00	102.19	5.90
93.50	109.80	5.00	99.86	6.58
94.00	107.60	5.00	97.59	7.24
94.50	104.90	5.00	95.46	7.85
95.00	101.00	5.00	93.43	8.42
95.50	96.30	5.00	91.42	8.99
96.00	91.20	5.00	89.32	9.60
96.50	85.70	5.00	87.19	10.23
97.00	79.70	5.00	84.97	10.91
97.50	73.60	5.00	82.62	11.66
98.00	67.30	5.00	80.17	12.47
98.50	61.10	5.00	77.55	13.38
99.00	55.10	5.00	74.74	14.39
99.50	49.50	5.00	71.75	15.50
100.00	44.40	5.00	68.58	16.68
100.50	39.90	5.00	65.26	17.92
101.00	35.70	5.00	61.99	19.10
101.50	31.20	5.00	58.90	20.19
102.00	23.40	5.00	56.37	21.08
102.50	13.40	5.00	53.43	22.18
103.00	6.00	5.00	45.54	24.21
103.50	0.20	5.00	34.56	24.45

### Beach Profile

$H_i = 166$  cm.  $T_i = 5$  sec. Topography = C:\data\Topo\_K61.txt

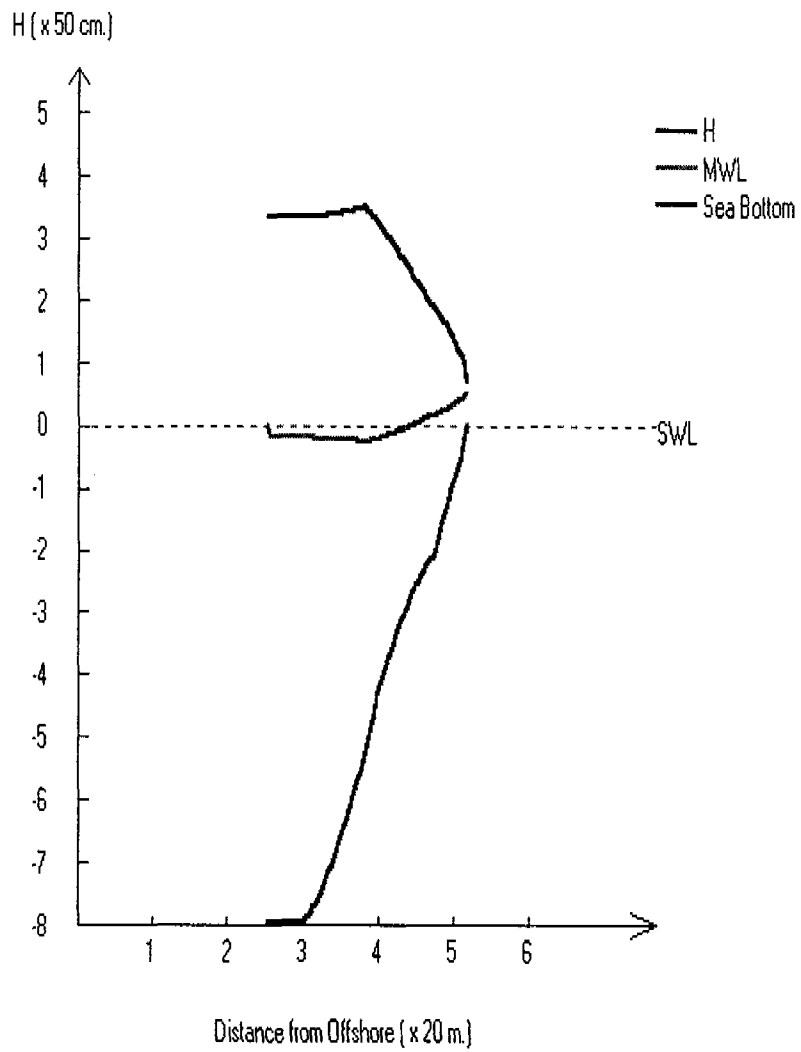


Fig. C.6 The beach profile and wave height transformation of regular wave model case 6.1 by using the experimental condition from Kajima et al. (1983)