

## **Appendix VII**

Original & Adjusted Hydrograph Tables

for

15 & 25-yr Storms

for

St. Johns, Volusia, and Indian River Counties

**ST. JOHNS COUNTY - Original & Adjusted Storm Tide Hydrograph  
Time Series Values for SBEACH**

Time Step (sec.)	15-yr Storm Tide Elevation NAVD (ft.)				
	Original Hydro Peak @ 6.80'	R001-R120 Peak @ 4.60'	R123-R151 Peak @ 4.70'	R152-R195 Peak @ 5.00'	R198-R209 Peak @ 4.90'
0.0	-1.44	-0.97	-1.00	-1.06	-1.04
0.5	-0.94	-0.64	-0.65	-0.69	-0.68
1.0	-0.34	-0.23	-0.24	-0.25	-0.25
1.5	0.30	0.20	0.21	0.22	0.22
2.0	0.94	0.64	0.65	0.69	0.68
2.5	1.58	1.07	1.09	1.16	1.14
3.0	2.17	1.47	1.50	1.60	1.56
3.5	2.67	1.81	1.85	1.96	1.92
4.0	3.07	2.08	2.12	2.26	2.21
4.5	3.34	2.26	2.31	2.46	2.41
5.0	3.47	2.35	2.40	2.55	2.50
5.5	3.44	2.33	2.38	2.53	2.48
6.0	3.27	2.21	2.26	2.40	2.36
6.5	2.97	2.01	2.05	2.18	2.14
7.0	2.54	1.72	1.76	1.87	1.83
7.5	2.05	1.39	1.42	1.51	1.48
8.0	1.52	1.03	1.05	1.12	1.10
8.5	1.01	0.68	0.70	0.74	0.73
9.0	0.55	0.37	0.38	0.40	0.40
9.5	0.17	0.12	0.12	0.13	0.12
10.0	-0.07	-0.05	-0.05	-0.05	-0.05
10.5	-0.16	-0.11	-0.11	-0.12	-0.12
11.0	-0.10	-0.07	-0.07	-0.07	-0.07
11.5	0.11	0.07	0.08	0.08	0.08
12.0	0.41	0.28	0.28	0.30	0.30
12.5	0.87	0.59	0.60	0.64	0.63
13.0	1.40	0.95	0.97	1.03	1.01
13.5	2.04	1.38	1.41	1.50	1.47
14.0	2.73	1.85	1.89	2.01	1.97
14.5	3.48	2.35	2.41	2.56	2.51
15.0	4.21	2.85	2.91	3.10	3.03
15.5	4.90	3.31	3.39	3.60	3.53
16.0	5.55	3.75	3.84	4.08	4.00
16.5	6.08	4.11	4.20	4.47	4.38

17.0	6.47	4.38	4.47	4.76	4.66
17.5	6.72	4.55	4.64	4.94	4.84
18.0	6.80	4.60	4.70	5.00	4.90
18.5	6.64	4.49	4.59	4.88	4.78
19.0	6.22	4.21	4.30	4.57	4.48
19.5	5.57	3.77	3.85	4.10	4.01
20.0	4.73	3.20	3.27	3.48	3.41
20.5	3.73	2.52	2.58	2.74	2.69
21.0	2.69	1.82	1.86	1.98	1.94
21.5	1.67	1.13	1.15	1.23	1.20
22.0	0.71	0.48	0.49	0.52	0.51
22.5	-0.13	-0.09	-0.09	-0.10	-0.09
23.0	-0.77	-0.52	-0.53	-0.57	-0.55
23.5	-1.19	-0.80	-0.82	-0.88	-0.86
24.0	-1.41	-0.95	-0.97	-1.04	-1.02
24.5	-1.43	-0.97	-0.99	-1.05	-1.03
25.0	-1.30	-0.88	-0.90	-0.96	-0.94
25.5	-0.94	-0.64	-0.65	-0.69	-0.68
26.0	-0.42	-0.28	-0.29	-0.31	-0.30
26.5	0.11	0.07	0.08	0.08	0.08
27.0	0.65	0.44	0.45	0.48	0.47
27.5	1.16	0.78	0.80	0.85	0.84
28.0	1.59	1.08	1.10	1.17	1.15
28.5	1.94	1.31	1.34	1.43	1.40
29.0	2.17	1.47	1.50	1.60	1.56
29.5	2.27	1.54	1.57	1.67	1.64
30.0	2.21	1.50	1.53	1.63	1.59
30.5	2.02	1.37	1.40	1.49	1.46
31.0	1.67	1.13	1.15	1.23	1.20
31.5	1.22	0.83	0.84	0.90	0.88
32.0	0.66	0.45	0.46	0.49	0.48
32.5	0.05	0.03	0.03	0.04	0.04
33.0	-0.56	-0.38	-0.39	-0.41	-0.40
33.5	-1.15	-0.78	-0.79	-0.85	-0.83
34.0	-1.67	-1.13	-1.15	-1.23	-1.20
34.5	-2.09	-1.41	-1.44	-1.54	-1.51
35.0	-2.40	-1.62	-1.66	-1.76	-1.73
35.5	-2.55	-1.73	-1.76	-1.88	-1.84
36.0	-2.56	-1.73	-1.77	-1.88	-1.84

**ST. JOHNS COUNTY - Original & Adjusted Storm Tide Hydrograph  
Time Series Values for SBEACH**

Time Step (sec.)	25-yr Storm Tide Elevation NAVD (ft.)				
	Original Hydro Peak @ 8.0'	R001-R120 Peak @ 5.40'	R123-R151 Peak @ 5.70'	R152-R195 Peak @ 5.90'	R198-R209 Peak @ 5.80'
0.0	-0.98	-0.66	-0.70	-0.72	-0.71
0.5	-0.54	-0.36	-0.38	-0.40	-0.39
1.0	0.00	0.00	0.00	0.00	0.00
1.5	0.65	0.44	0.46	0.48	0.47
2.0	1.38	0.93	0.98	1.02	1.00
2.5	2.12	1.43	1.51	1.56	1.54
3.0	2.84	1.92	2.02	2.09	2.06
3.5	3.53	2.38	2.52	2.60	2.56
4.0	4.14	2.79	2.95	3.05	3.00
4.5	4.64	3.13	3.31	3.42	3.36
5.0	4.98	3.36	3.55	3.67	3.61
5.5	5.17	3.49	3.68	3.81	3.75
6.0	5.21	3.52	3.71	3.84	3.78
6.5	5.14	3.47	3.66	3.79	3.73
7.0	4.92	3.32	3.51	3.63	3.57
7.5	4.53	3.06	3.23	3.34	3.28
8.0	4.04	2.73	2.88	2.98	2.93
8.5	3.50	2.36	2.49	2.58	2.54
9.0	2.94	1.98	2.09	2.17	2.13
9.5	2.43	1.64	1.73	1.79	1.76
10.0	2.01	1.36	1.43	1.48	1.46
10.5	1.70	1.15	1.21	1.25	1.23
11.0	1.55	1.05	1.10	1.14	1.12
11.5	1.57	1.06	1.12	1.16	1.14
12.0	1.77	1.19	1.26	1.31	1.28
12.5	2.11	1.42	1.50	1.56	1.53
13.0	2.60	1.76	1.85	1.92	1.89
13.5	3.20	2.16	2.28	2.36	2.32
14.0	3.90	2.63	2.78	2.88	2.83
14.5	4.64	3.13	3.31	3.42	3.36
15.0	5.39	3.64	3.84	3.98	3.91
15.5	6.10	4.12	4.35	4.50	4.42
16.0	6.75	4.56	4.81	4.98	4.89
16.5	7.30	4.93	5.20	5.38	5.29

17.0	7.70	5.20	5.49	5.68	5.58
17.5	7.94	5.36	5.66	5.86	5.76
18.0	8.00	5.40	5.70	5.90	5.80
18.5	7.88	5.32	5.61	5.81	5.71
19.0	7.58	5.12	5.40	5.59	5.50
19.5	7.10	4.79	5.06	5.24	5.15
20.0	6.48	4.37	4.62	4.78	4.70
20.5	5.76	3.89	4.10	4.25	4.18
21.0	4.97	3.35	3.54	3.67	3.60
21.5	4.16	2.81	2.96	3.07	3.02
22.0	3.37	2.27	2.40	2.49	2.44
22.5	2.63	1.78	1.87	1.94	1.91
23.0	2.00	1.35	1.43	1.48	1.45
23.5	1.51	1.02	1.08	1.11	1.09
24.0	1.18	0.80	0.84	0.87	0.86
24.5	1.01	0.68	0.72	0.74	0.73
25.0	1.02	0.69	0.73	0.75	0.74
25.5	1.16	0.78	0.83	0.86	0.84
26.0	1.42	0.96	1.01	1.05	1.03
26.5	1.77	1.19	1.26	1.31	1.28
27.0	2.19	1.48	1.56	1.62	1.59
27.5	2.65	1.79	1.89	1.95	1.92
28.0	3.09	2.09	2.20	2.28	2.24
28.5	3.49	2.36	2.49	2.57	2.53
29.0	3.80	2.57	2.71	2.80	2.76
29.5	4.01	2.71	2.86	2.96	2.91
30.0	4.10	2.77	2.92	3.02	2.97
30.5	4.04	2.73	2.88	2.98	2.93
31.0	3.83	2.59	2.73	2.82	2.78
31.5	3.47	2.34	2.47	2.56	2.52
32.0	2.97	2.00	2.12	2.19	2.15
32.5	2.36	1.59	1.68	1.74	1.71
33.0	1.68	1.13	1.20	1.24	1.22
33.5	0.97	0.65	0.69	0.72	0.70
34.0	0.29	0.20	0.21	0.21	0.21
34.5	-0.36	-0.24	-0.26	-0.27	-0.26
35.0	-0.90	-0.61	-0.64	-0.66	-0.65
35.5	-1.31	-0.88	-0.93	-0.97	-0.95
36.0	-1.57	-1.06	-1.12	-1.16	-1.14

**VOLUSIA COUNTY - Adjusted Storm Tide Hydrograph  
Time Series Values for SBEACH**

<b>Time Step (sec.)</b>	<b>15-yr Storm Tide Elevation NAVD (ft.)</b>			
	<b>Original Hydro Peak @ 5.30'</b>	<b>R001-R065 and R191-R205 Peak @ 3.70'</b>	<b>R066-R190 Peak @ 3.90'</b>	<b>R206-R234 Peak @ 3.50'</b>
0.0	-2.53	-1.59	-1.67	-1.50
0.5	-2.36	-1.48	-1.56	-1.40
1.0	-2.08	-1.30	-1.37	-1.23
1.5	-1.71	-1.07	-1.13	-1.01
2.0	-1.24	-0.78	-0.82	-0.74
2.5	-0.73	-0.46	-0.48	-0.43
3.0	-0.18	-0.11	-0.12	-0.11
3.5	0.34	0.21	0.22	0.20
4.0	0.82	0.51	0.54	0.49
4.5	1.22	0.77	0.81	0.72
5.0	1.55	0.97	1.02	0.92
5.5	1.78	1.12	1.18	1.06
6.0	1.95	1.22	1.29	1.16
6.5	1.99	1.25	1.32	1.18
7.0	1.88	1.18	1.24	1.12
7.5	1.63	1.02	1.08	0.97
8.0	1.30	0.82	0.86	0.77
8.5	0.91	0.57	0.60	0.54
9.0	0.52	0.33	0.34	0.31
9.5	0.15	0.09	0.10	0.09
10.0	-0.17	-0.11	-0.11	-0.10
10.5	-0.41	-0.26	-0.27	-0.24
11.0	-0.55	-0.34	-0.36	-0.33
11.5	-0.54	-0.34	-0.36	-0.32
12.0	-0.36	-0.23	-0.24	-0.21
12.5	-0.06	-0.04	-0.04	-0.04
13.0	0.39	0.24	0.26	0.23
13.5	0.94	0.59	0.62	0.56
14.0	1.60	1.00	1.06	0.95
14.5	2.30	1.44	1.52	1.36
15.0	3.04	1.91	2.01	1.80
15.5	3.75	2.35	2.48	2.22
16.0	4.42	2.77	2.92	2.62

16.5	4.99	3.13	3.30	2.96
17.0	5.46	3.42	3.61	3.24
17.5	5.77	3.62	3.81	3.42
18.0	5.90	3.70	3.90	3.50
18.5	5.83	3.66	3.85	3.46
19.0	5.55	3.48	3.67	3.29
19.5	5.07	3.18	3.35	3.01
20.0	4.40	2.76	2.91	2.61
20.5	3.58	2.25	2.37	2.12
21.0	2.67	1.67	1.76	1.58
21.5	1.72	1.08	1.14	1.02
22.0	0.81	0.51	0.54	0.48
22.5	-0.04	-0.03	-0.03	-0.02
23.0	-0.78	-0.49	-0.52	-0.46
23.5	-1.35	-0.85	-0.89	-0.80
24.0	-1.75	-1.10	-1.16	-1.04
24.5	-1.98	-1.24	-1.31	-1.17
25.0	-2.06	-1.29	-1.36	-1.22
25.5	-1.98	-1.24	-1.31	-1.17
26.0	-1.78	-1.12	-1.18	-1.06
26.5	-1.47	-0.92	-0.97	-0.87
27.0	-1.08	-0.68	-0.71	-0.64
27.5	-0.65	-0.41	-0.43	-0.39
28.0	-0.21	-0.13	-0.14	-0.12
28.5	0.20	0.13	0.13	0.12
29.0	0.57	0.36	0.38	0.34
29.5	0.86	0.54	0.57	0.51
30.0	1.04	0.65	0.69	0.62
30.5	1.11	0.70	0.73	0.66
31.0	1.05	0.66	0.69	0.62
31.5	0.87	0.55	0.58	0.52
32.0	0.56	0.35	0.37	0.33
32.5	0.17	0.11	0.11	0.10
33.0	-0.30	-0.19	-0.20	-0.18
33.5	-0.81	-0.51	-0.54	-0.48
34.0	-1.32	-0.83	-0.87	-0.78
34.5	-1.80	-1.13	-1.19	-1.07
35.0	-2.20	-1.38	-1.45	-1.31
35.5	-2.51	-1.57	-1.66	-1.49
36.0	-2.68	-1.68	-1.77	-1.59

**VOLUSIA COUNTY - Adjusted Storm Tide Hydrograph  
Time Series Values for SBEACH**

Time Step (sec.)	25-yr Storm Tide Elevation NAVD (ft.)						
	Original Hydro Peak @ 7.00'	R001-R065 Peak @ 4.60'	R066-R148 R171-R190 Peak @ 4.80'	R149-R170 Peak @ 4.90'	R191-R205 Peak @ 4.50'	R206-R229 Peak @ 4.30'	R230-R234 Peak @ 4.40'
0.0	-3.63	-2.39	-2.49	-2.54	-1.93	-2.23	-2.28
0.5	-3.25	-2.14	-2.23	-2.28	-1.80	-2.00	-2.04
1.0	-2.75	-1.81	-1.89	-1.93	-1.59	-1.69	-1.73
1.5	-2.14	-1.41	-1.47	-1.50	-1.30	-1.31	-1.35
2.0	-1.46	-0.96	-1.00	-1.02	-0.95	-0.90	-0.92
2.5	-0.76	-0.50	-0.52	-0.53	-0.56	-0.47	-0.48
3.0	-0.06	-0.04	-0.04	-0.04	-0.14	-0.04	-0.04
3.5	0.57	0.37	0.39	0.40	0.26	0.35	0.36
4.0	1.12	0.74	0.77	0.78	0.63	0.69	0.70
4.5	1.55	1.02	1.06	1.09	0.93	0.95	0.97
5.0	1.83	1.20	1.25	1.28	1.18	1.12	1.15
5.5	1.97	1.29	1.35	1.38	1.36	1.21	1.24
6.0	1.91	1.26	1.31	1.34	1.49	1.17	1.20
6.5	1.66	1.09	1.14	1.16	1.52	1.02	1.04
7.0	1.23	0.81	0.84	0.86	1.43	0.76	0.77
7.5	0.68	0.45	0.47	0.48	1.24	0.42	0.43
8.0	0.04	0.03	0.03	0.03	0.99	0.02	0.03
8.5	-0.64	-0.42	-0.44	-0.45	0.69	-0.39	-0.40
9.0	-1.30	-0.85	-0.89	-0.91	0.40	-0.80	-0.82
9.5	-1.89	-1.24	-1.30	-1.32	0.11	-1.16	-1.19
10.0	-2.40	-1.58	-1.65	-1.68	-0.13	-1.47	-1.51
10.5	-2.74	-1.80	-1.88	-1.92	-0.31	-1.68	-1.72
11.0	-2.88	-1.89	-1.97	-2.02	-0.42	-1.77	-1.81
11.5	-2.80	-1.84	-1.92	-1.96	-0.41	-1.72	-1.76
12.0	-2.51	-1.65	-1.72	-1.76	-0.27	-1.54	-1.58
12.5	-2.04	-1.34	-1.40	-1.43	-0.05	-1.25	-1.28
13.0	-1.41	-0.93	-0.97	-0.99	0.30	-0.87	-0.89
13.5	-0.63	-0.41	-0.43	-0.44	0.72	-0.39	-0.40
14.0	0.29	0.19	0.20	0.20	1.22	0.18	0.18
14.5	1.29	0.85	0.88	0.90	1.75	0.79	0.81
15.0	2.36	1.55	1.62	1.65	2.32	1.45	1.48
15.5	3.46	2.27	2.37	2.42	2.86	2.13	2.17
16.0	4.51	2.96	3.09	3.16	3.37	2.77	2.83

16.5	5.47	3.59	3.75	3.83	3.81	3.36	3.44
17.0	6.26	4.11	4.29	4.38	4.16	3.85	3.93
17.5	6.79	4.46	4.66	4.75	4.40	4.17	4.27
18.0	7.00	4.60	4.80	4.90	4.50	4.30	4.40
18.5	6.82	4.48	4.68	4.77	4.45	4.19	4.29
19.0	6.21	4.08	4.26	4.35	4.23	3.81	3.90
19.5	5.25	3.45	3.60	3.68	3.87	3.23	3.30
20.0	4.04	2.65	2.77	2.83	3.36	2.48	2.54
20.5	2.69	1.77	1.84	1.88	2.73	1.65	1.69
21.0	1.32	0.87	0.91	0.92	2.04	0.81	0.83
21.5	0.03	0.02	0.02	0.02	1.31	0.02	0.02
22.0	-1.11	-0.73	-0.76	-0.78	0.62	-0.68	-0.70
22.5	-2.06	-1.35	-1.41	-1.44	-0.03	-1.27	-1.29
23.0	-2.79	-1.83	-1.91	-1.95	-0.59	-1.71	-1.75
23.5	-3.29	-2.16	-2.26	-2.30	-1.03	-2.02	-2.07
24.0	-3.53	-2.32	-2.42	-2.47	-1.33	-2.17	-2.22
24.5	-3.55	-2.33	-2.43	-2.49	-1.51	-2.18	-2.23
25.0	-3.37	-2.21	-2.31	-2.36	-1.57	-2.07	-2.12
25.5	-3.04	-2.00	-2.08	-2.13	-1.51	-1.87	-1.91
26.0	-2.55	-1.68	-1.75	-1.79	-1.36	-1.57	-1.60
26.5	-1.97	-1.29	-1.35	-1.38	-1.12	-1.21	-1.24
27.0	-1.34	-0.88	-0.92	-0.94	-0.82	-0.82	-0.84
27.5	-0.67	-0.44	-0.46	-0.47	-0.50	-0.41	-0.42
28.0	0.00	0.00	0.00	0.00	-0.16	0.00	0.00
28.5	0.59	0.39	0.40	0.41	0.15	0.36	0.37
29.0	1.08	0.71	0.74	0.76	0.43	0.66	0.68
29.5	1.46	0.96	1.00	1.02	0.66	0.90	0.92
30.0	1.69	1.11	1.16	1.18	0.79	1.04	1.06
30.5	1.76	1.16	1.21	1.23	0.85	1.08	1.11
31.0	1.64	1.08	1.12	1.15	0.80	1.01	1.03
31.5	1.34	0.88	0.92	0.94	0.66	0.82	0.84
32.0	0.86	0.57	0.59	0.60	0.43	0.53	0.54
32.5	0.26	0.17	0.18	0.18	0.13	0.16	0.16
33.0	-0.43	-0.28	-0.29	-0.30	-0.23	-0.26	-0.27
33.5	-1.17	-0.77	-0.80	-0.82	-0.62	-0.72	-0.74
34.0	-1.89	-1.24	-1.30	-1.32	-1.01	-1.16	-1.19
34.5	-2.53	-1.66	-1.73	-1.77	-1.37	-1.55	-1.59
35.0	-3.08	-2.02	-2.11	-2.16	-1.68	-1.89	-1.94
35.5	-3.46	-2.27	-2.37	-2.42	-1.91	-2.13	-2.17
36.0	-3.67	-2.41	-2.52	-2.57	-2.04	-2.25	-2.31

**INDIAN RIVER COUNTY - Adjusted Storm Tide Hydrograph  
Time Series Values for SBEACH**

Time Step (sec.)	15-yr Storm Tide Elevation NAVD (ft.)		25-yr Storm Tide Elevation NAVD (ft.)	
	Original Hydro Peak @ 5.30'	Adjusted Hydro Peak @ 2.60'	Original Hydro Peak @ 6.50'	Adjusted Hydro Peak @ 3.70'
0.0	-2.73	-1.34	-2.29	-1.30
0.5	-2.39	-1.17	-2.24	-1.28
1.0	-1.96	-0.96	-2.04	-1.16
1.5	-1.57	-0.77	-1.79	-1.02
2.0	-1.15	-0.56	-1.46	-0.83
2.5	-0.67	-0.33	-1.04	-0.59
3.0	-0.10	-0.05	-0.56	-0.32
3.5	0.43	0.21	-0.08	-0.05
4.0	0.86	0.42	0.36	0.20
4.5	1.24	0.61	0.74	0.42
5.0	1.54	0.76	1.06	0.60
5.5	1.72	0.84	1.30	0.74
6.0	1.74	0.85	1.49	0.85
6.5	1.62	0.79	1.56	0.89
7.0	1.38	0.68	1.55	0.88
7.5	1.06	0.52	1.46	0.83
8.0	0.71	0.35	1.28	0.73
8.5	0.33	0.16	1.08	0.61
9.0	-0.06	-0.03	0.85	0.48
9.5	-0.43	-0.21	0.61	0.35
10.0	-0.73	-0.36	0.39	0.22
10.5	-0.96	-0.47	0.20	0.11
11.0	-1.05	-0.52	0.07	0.04
11.5	-1.03	-0.51	0.02	0.01
12.0	-0.86	-0.42	0.10	0.06
12.5	-0.58	-0.28	0.29	0.17
13.0	-0.17	-0.08	0.60	0.34
13.5	0.35	0.17	1.05	0.60
14.0	0.96	0.47	1.61	0.92
14.5	1.65	0.81	2.27	1.29
15.0	2.39	1.17	3.01	1.71
15.5	3.12	1.53	3.79	2.16
16.0	3.81	1.87	4.58	2.61
16.5	4.41	2.16	5.30	3.02

17.0	4.88	2.39	5.92	3.37
17.5	5.20	2.55	6.34	3.61
18.0	5.30	2.60	6.50	3.70
18.5	5.20	2.55	6.34	3.61
19.0	4.89	2.40	5.86	3.34
19.5	4.34	2.13	5.09	2.90
20.0	3.67	1.80	4.14	2.36
20.5	2.92	1.43	3.11	1.77
21.0	2.06	1.01	2.05	1.17
21.5	1.19	0.58	1.06	0.60
22.0	0.36	0.18	0.18	0.10
22.5	-0.40	-0.20	-0.57	-0.32
23.0	-1.04	-0.51	-1.20	-0.68
23.5	-1.52	-0.75	-1.67	-0.95
24.0	-1.85	-0.91	-2.03	-1.16
24.5	-1.91	-0.94	-2.25	-1.28
25.0	-1.85	-0.91	-2.34	-1.33
25.5	-1.68	-0.82	-2.32	-1.32
26.0	-1.40	-0.69	-2.13	-1.21
26.5	-1.02	-0.50	-1.87	-1.06
27.0	-0.60	-0.29	-1.55	-0.88
27.5	-0.15	-0.07	-1.18	-0.67
28.0	0.31	0.15	-0.79	-0.45
28.5	0.74	0.36	-0.40	-0.23
29.0	1.09	0.53	-0.02	-0.01
29.5	1.31	0.64	0.30	0.17
30.0	1.44	0.71	0.55	0.31
30.5	1.52	0.75	0.71	0.40
31.0	1.55	0.76	0.78	0.44
31.5	1.52	0.75	0.75	0.43
32.0	1.37	0.67	0.64	0.36
32.5	1.11	0.54	0.44	0.25
33.0	0.76	0.37	0.19	0.11
33.5	0.31	0.15	-0.12	-0.07
34.0	-0.17	-0.08	-0.45	-0.26
34.5	-0.65	-0.32	-0.79	-0.45
35.0	-1.08	-0.53	-1.13	-0.64
35.5	-1.41	-0.69	-1.41	-0.80
36.0	-1.64	-0.80	-1.65	-0.94