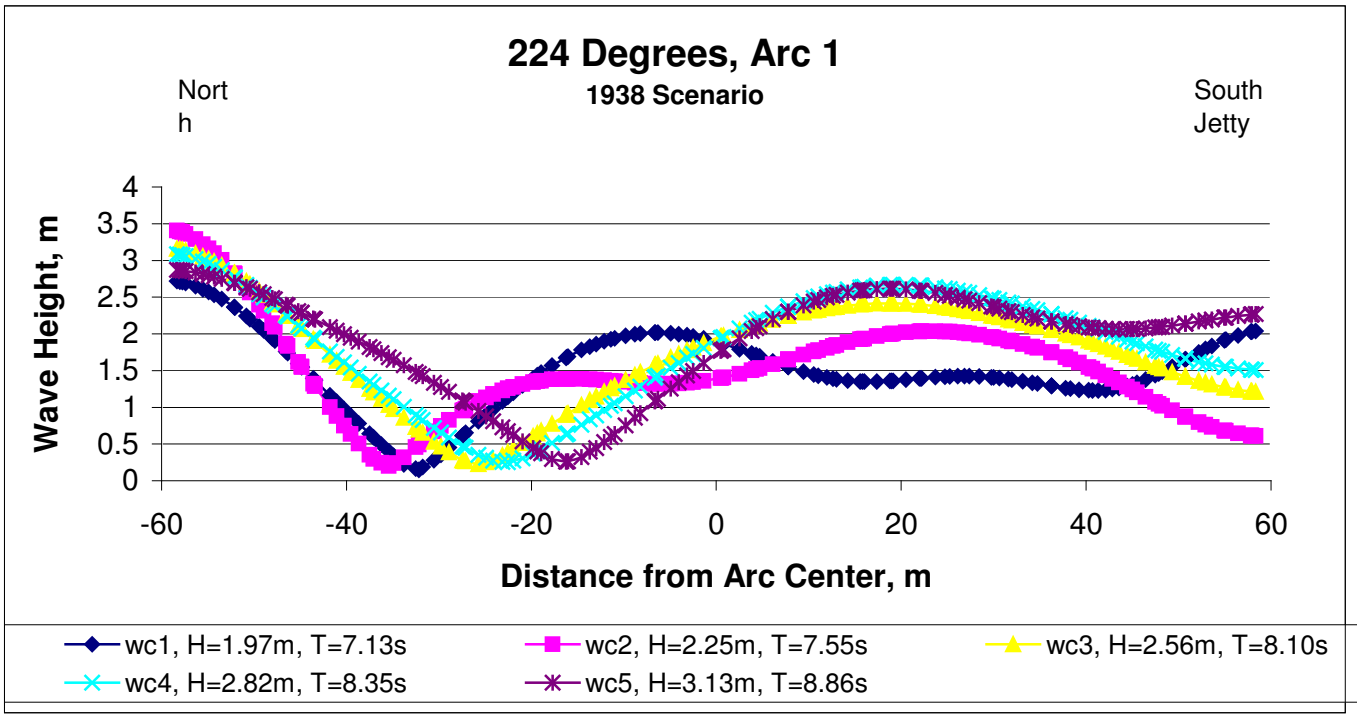
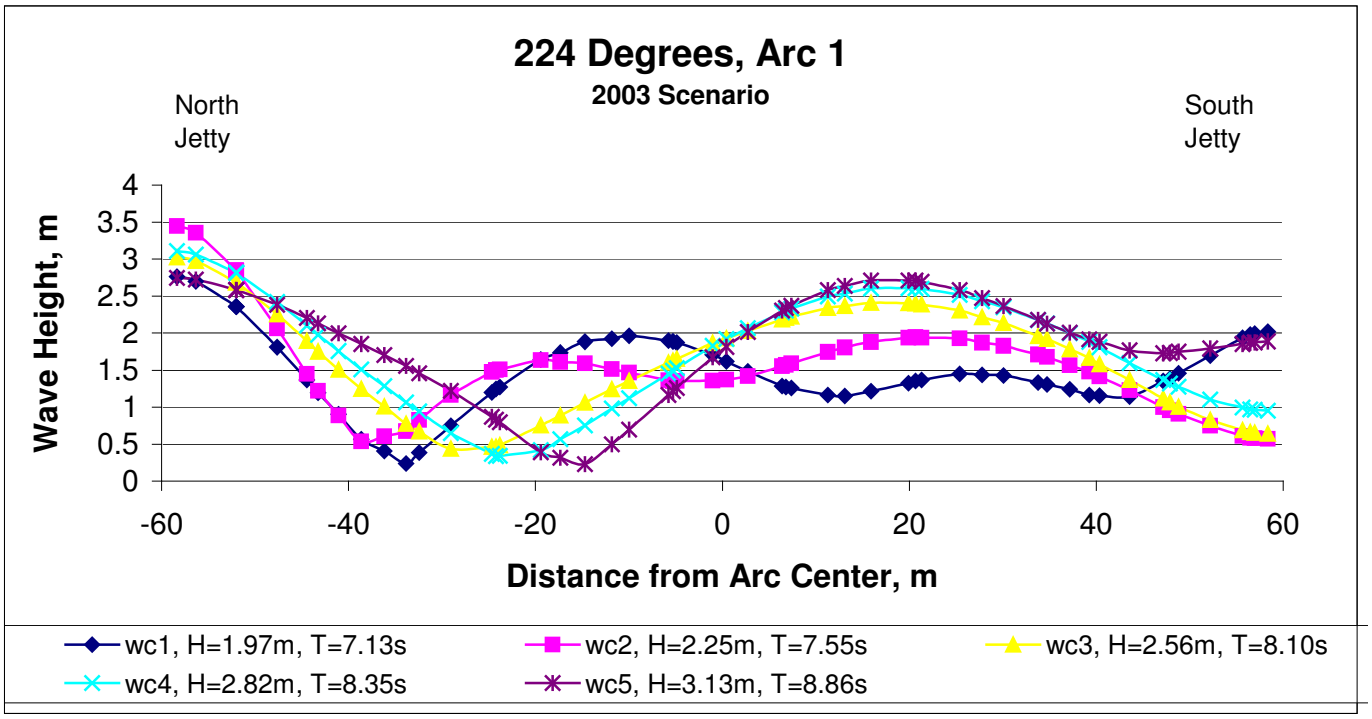
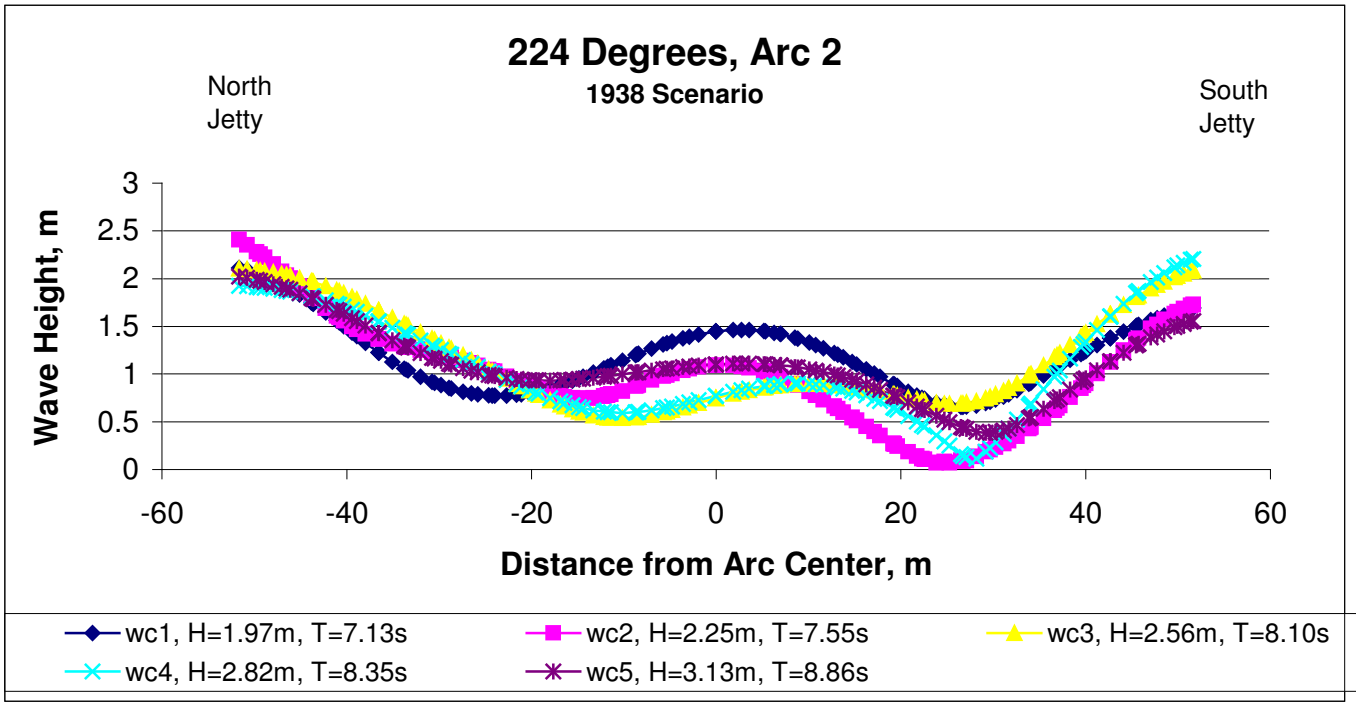
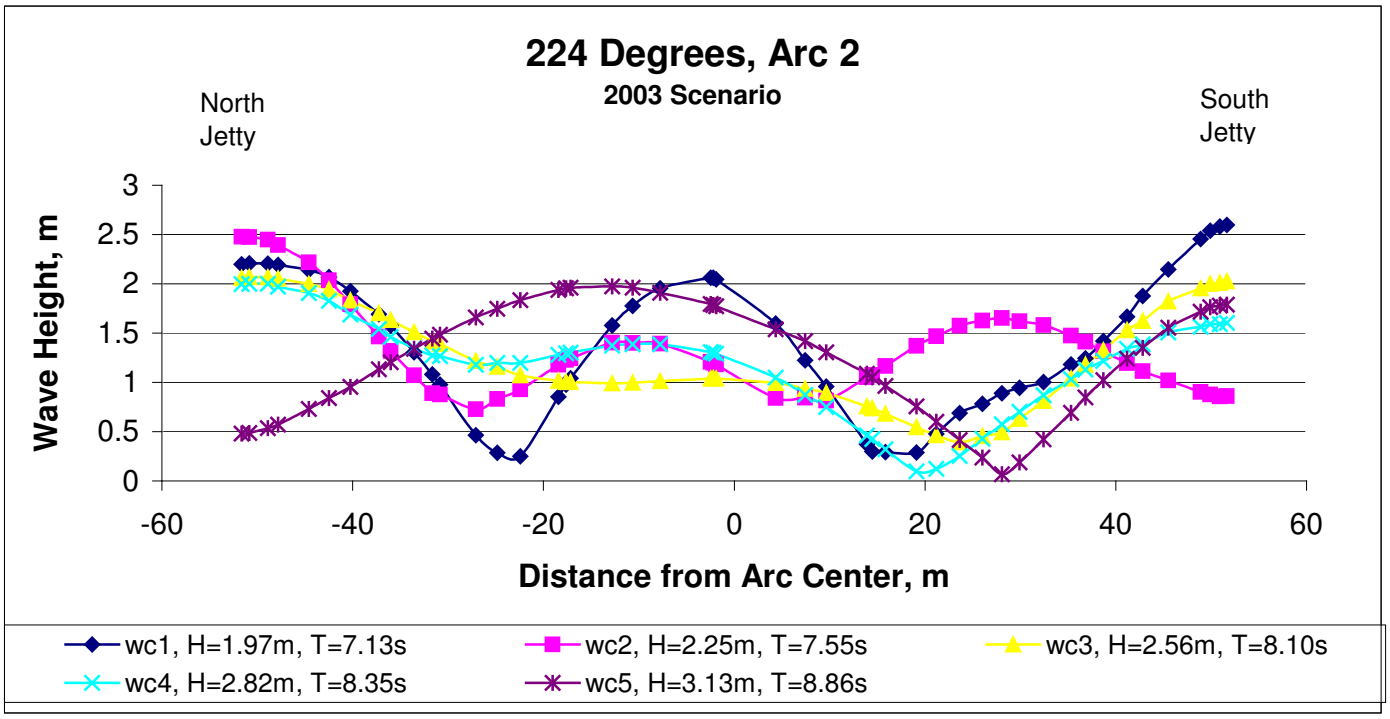
Appendix B

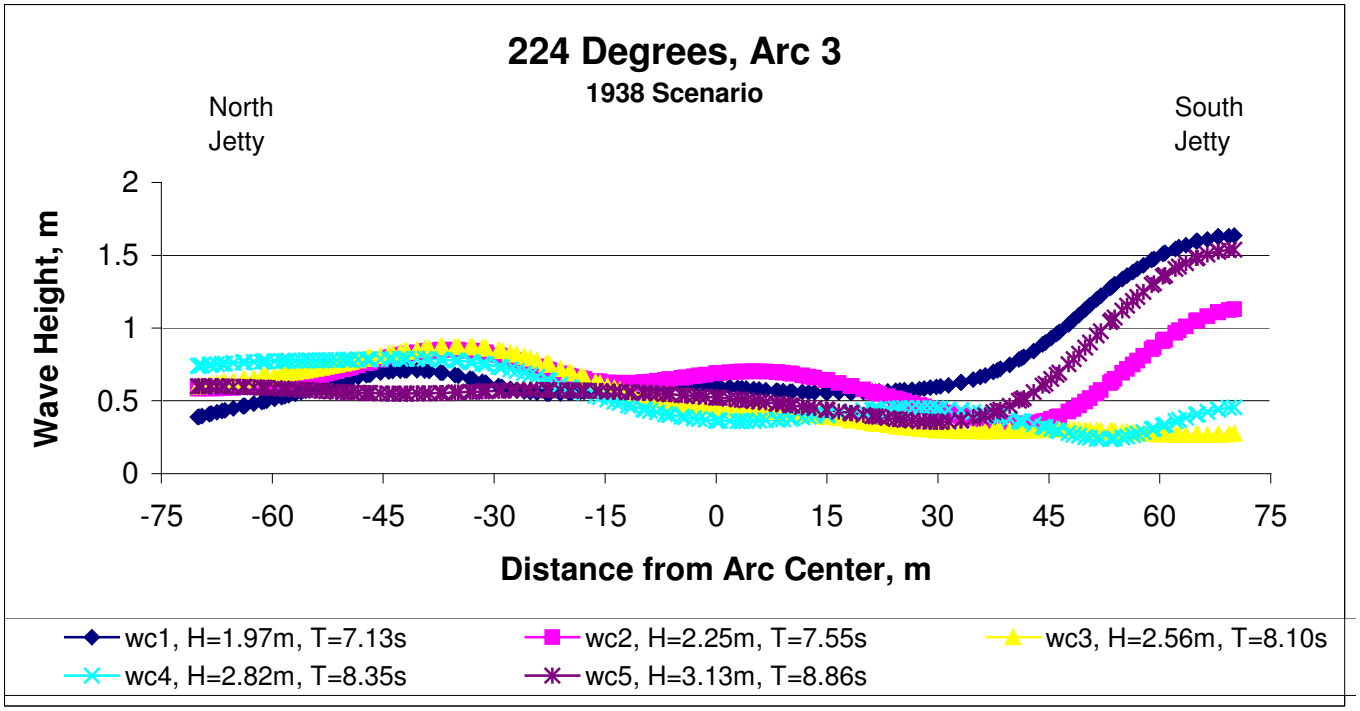
Wave Amplitudes (m)
Arcs 1-5

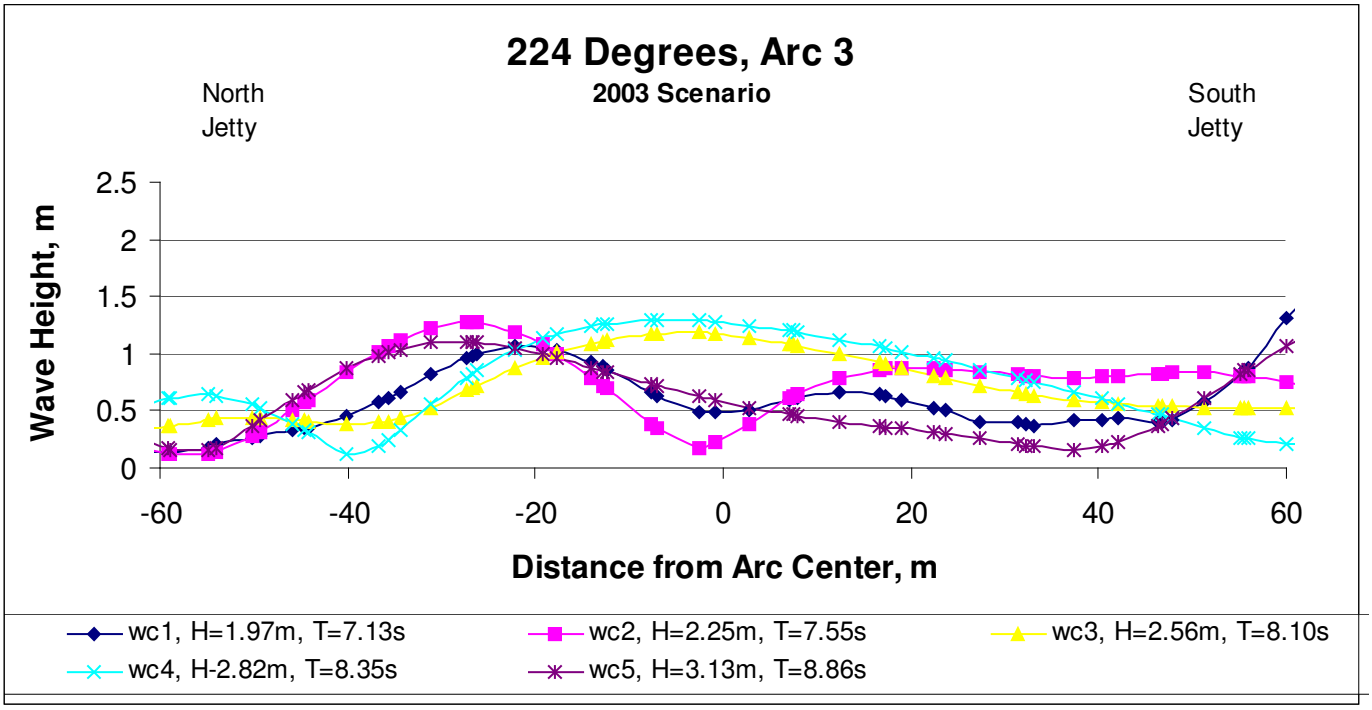

224 Degrees, Arc 1
1938 Scenario
Nort
h
South
Jetty
Wave Height, m
4
3.5
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

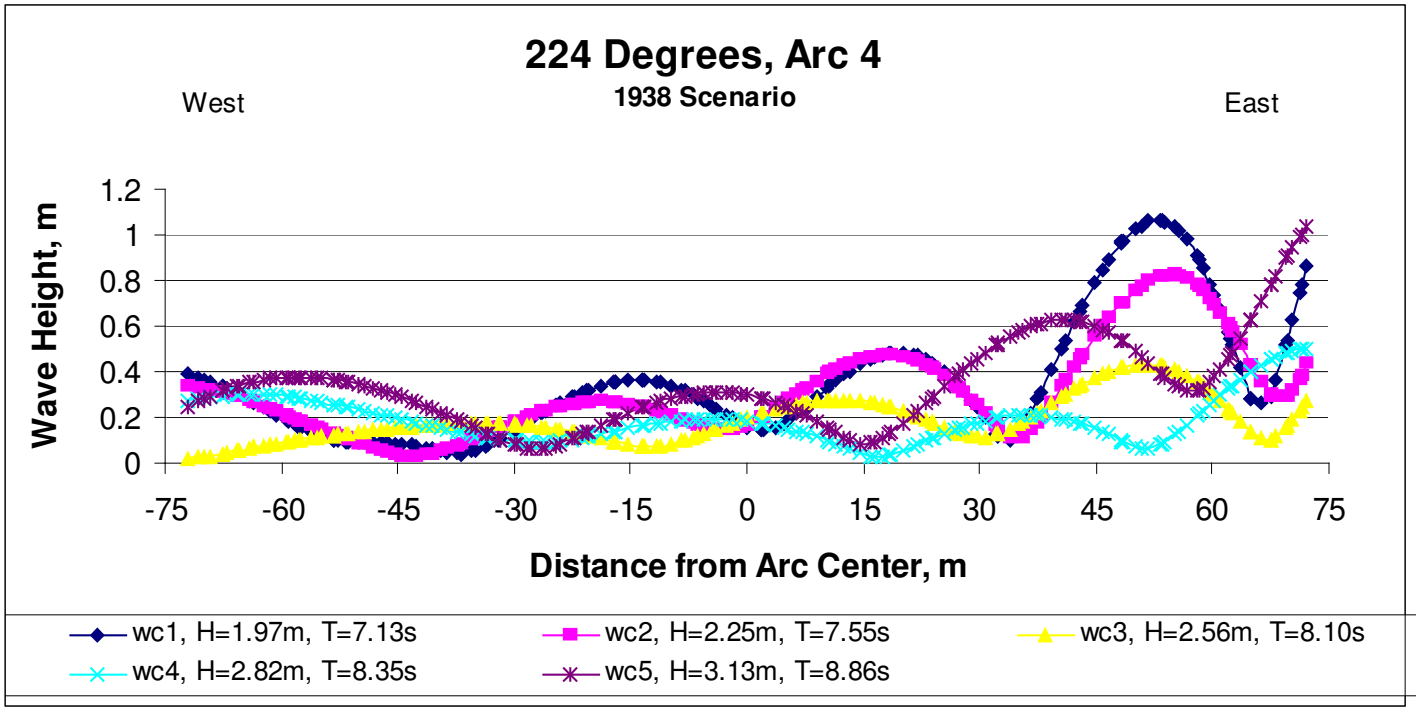

224 Degrees, Arc 1
2003 Scenario
North
Jetty
South
Jetty
Wave Height, m
4
3.5
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

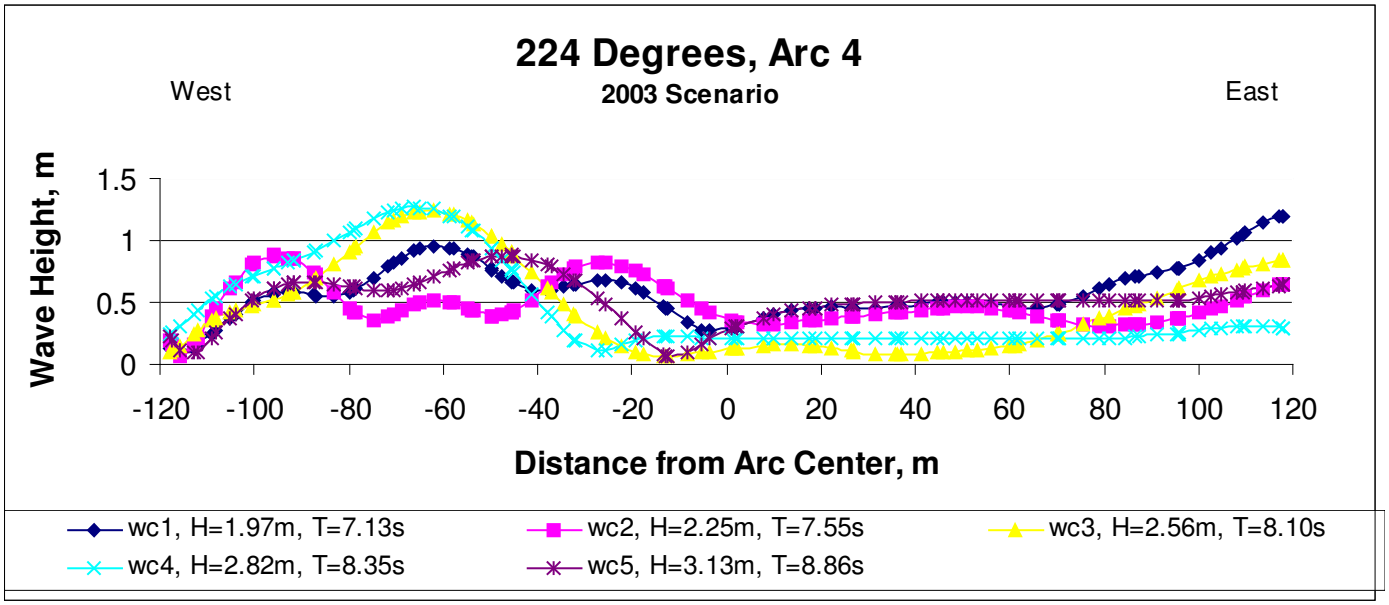

224 Degrees, Arc 2
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

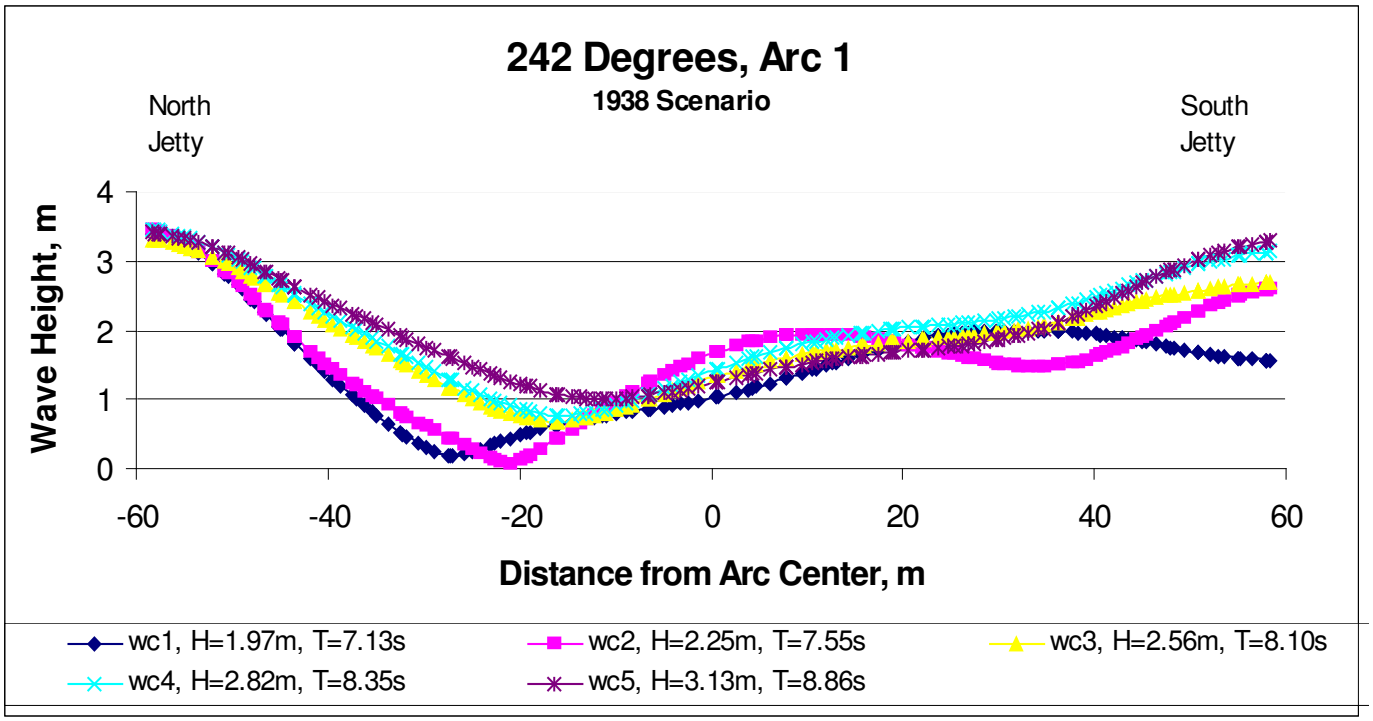

224 Degrees, Arc 2
2003 Scenario
North Jetty
South Jetty
Wave Height, m
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

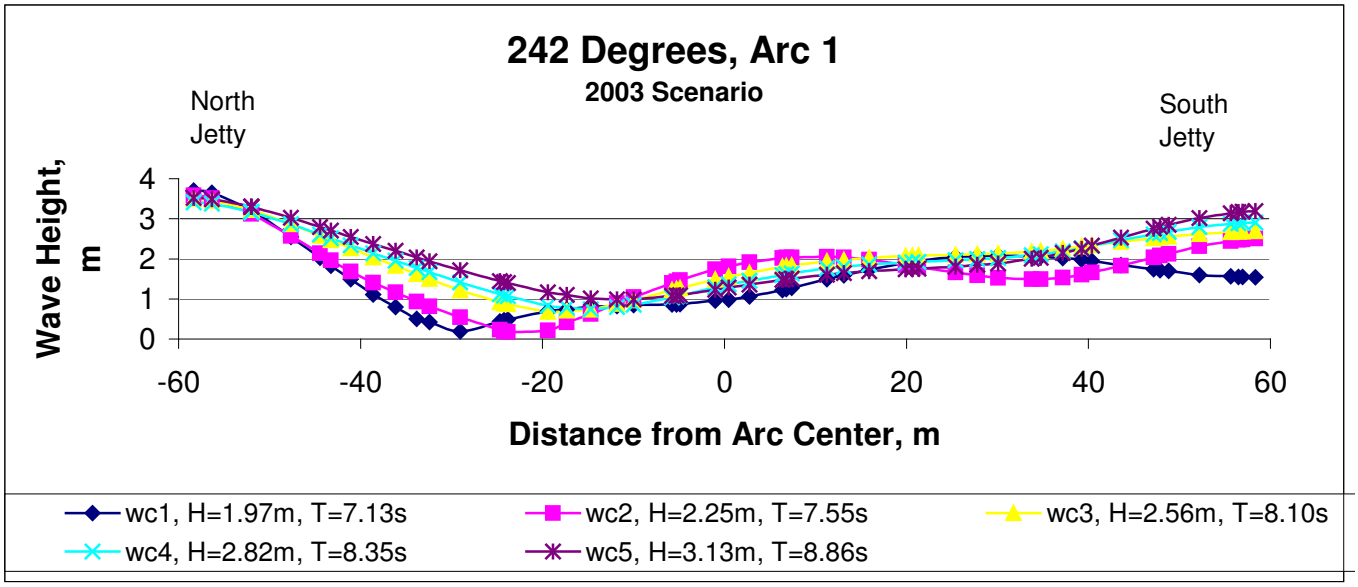

224 Degrees, Arc 3
1938 Scenario
North Jetty
South Jetty
Wave Height, m
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

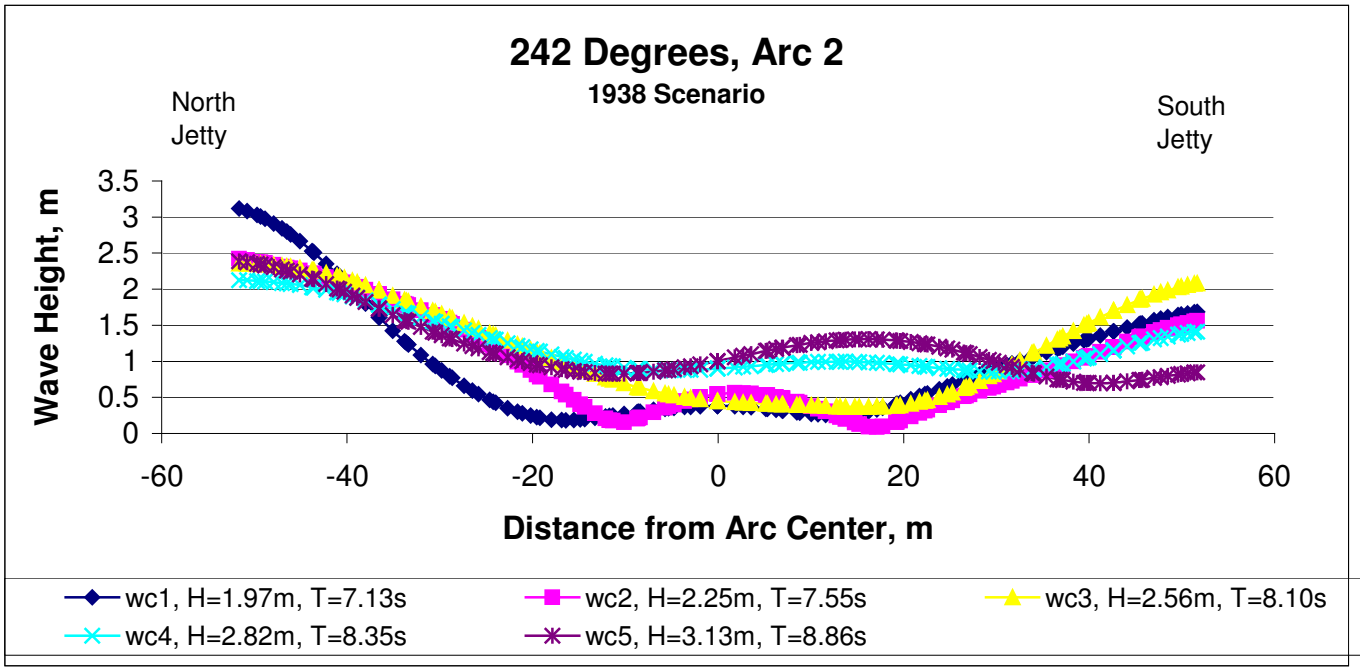

224 Degrees, Arc 3
2003 Scenario
North Jetty
South Jetty
Wave Height, m
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

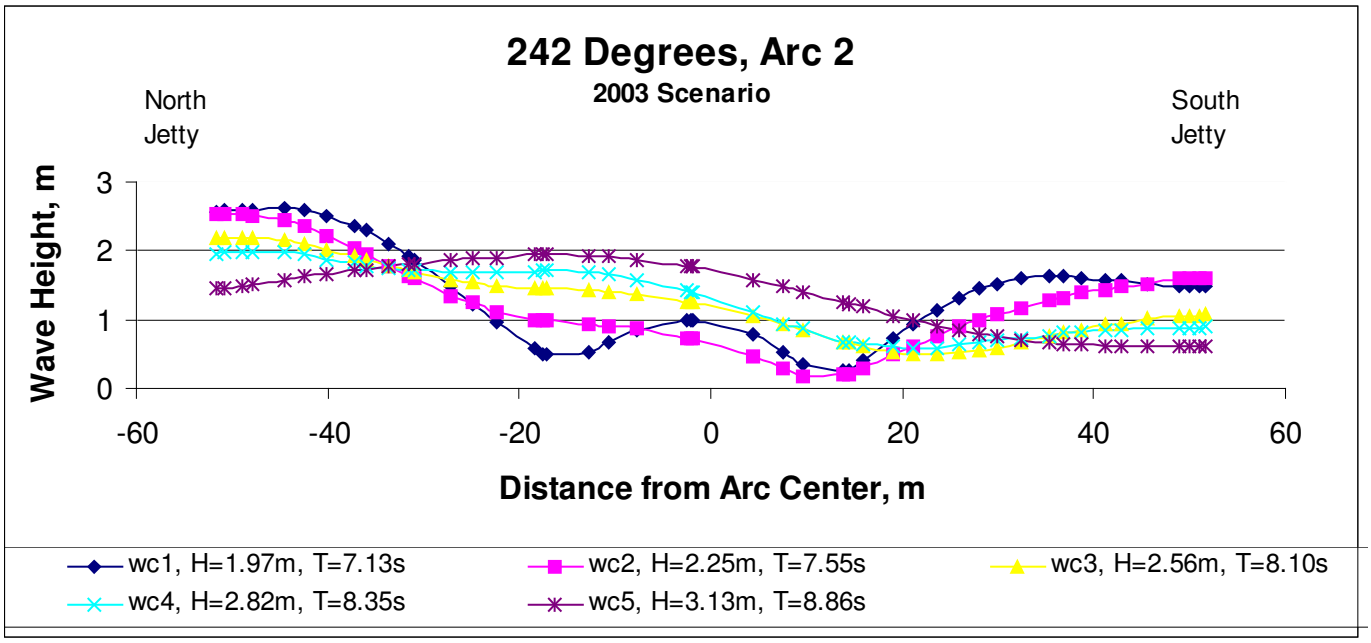

224 Degrees, Arc 4
1938 Scenario
West
East
Wave Height, m
1.2
1
0.8
0.6
0.4
0.2
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

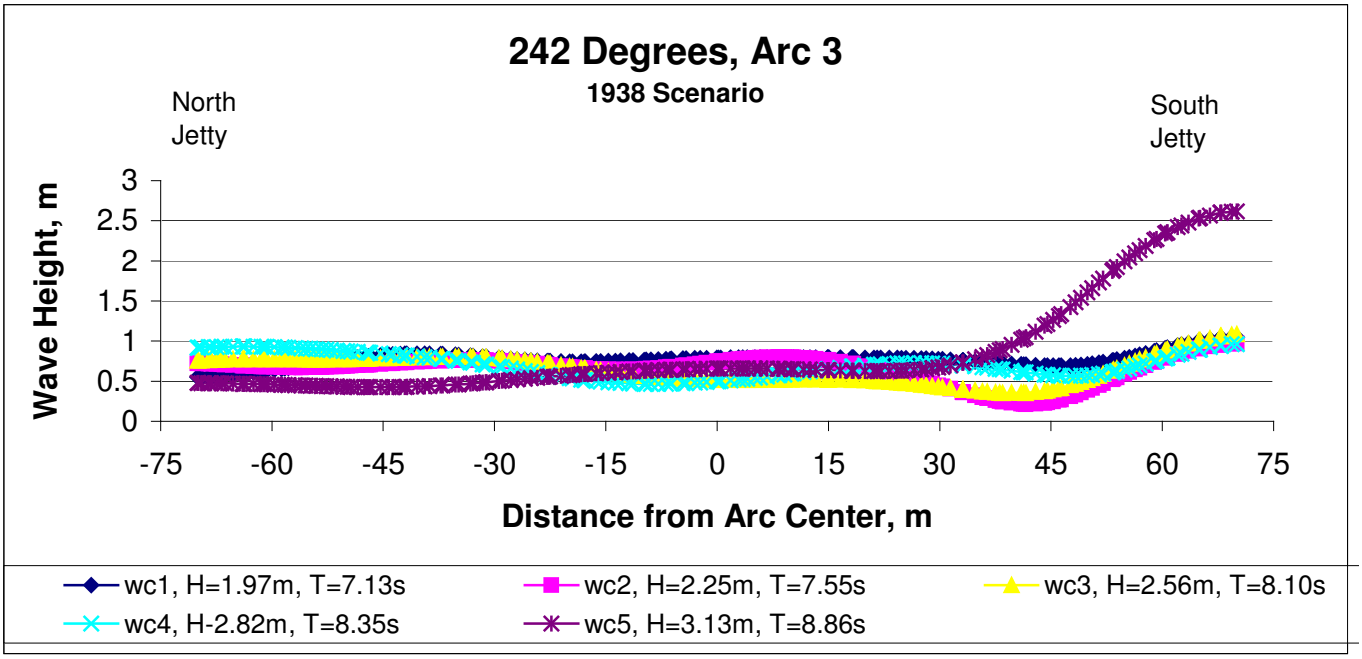

224 Degrees, Arc 4
2003 Scenario
West
East
Wave Height, m
1.5
1
0.5
0
-120
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

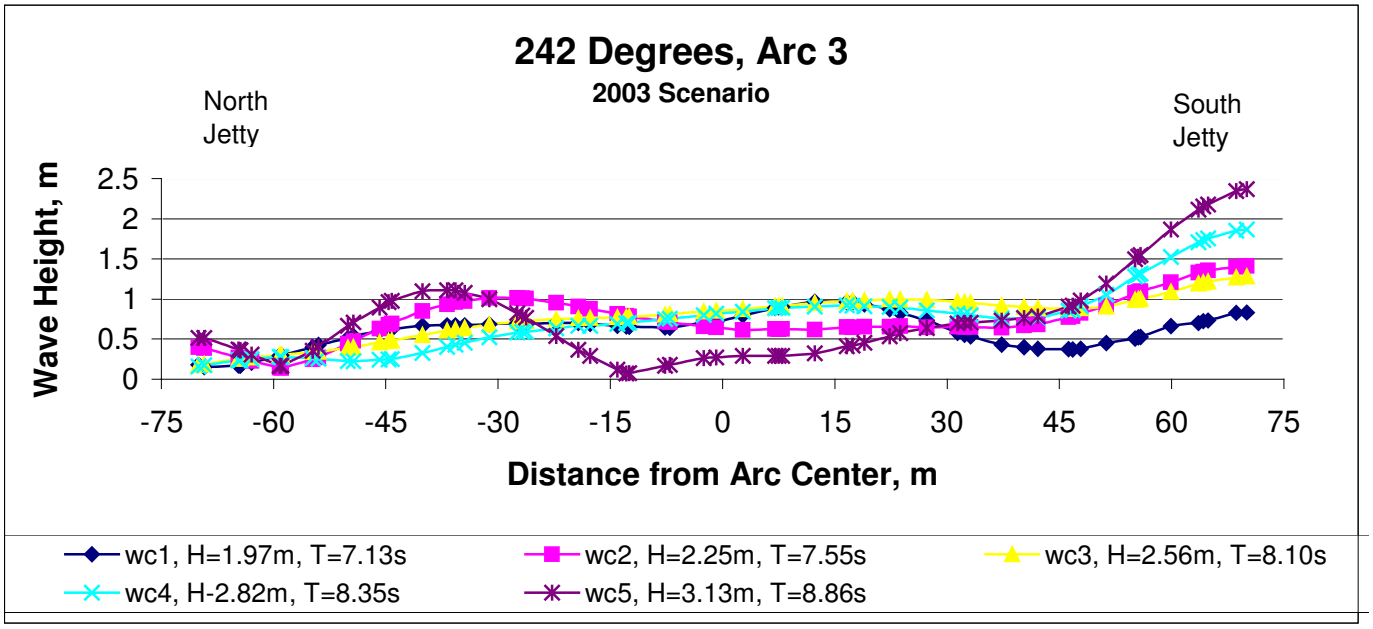

242 Degrees, Arc 1
1938 Scenario
North Jetty
South Jetty
Wave Height, m
4
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

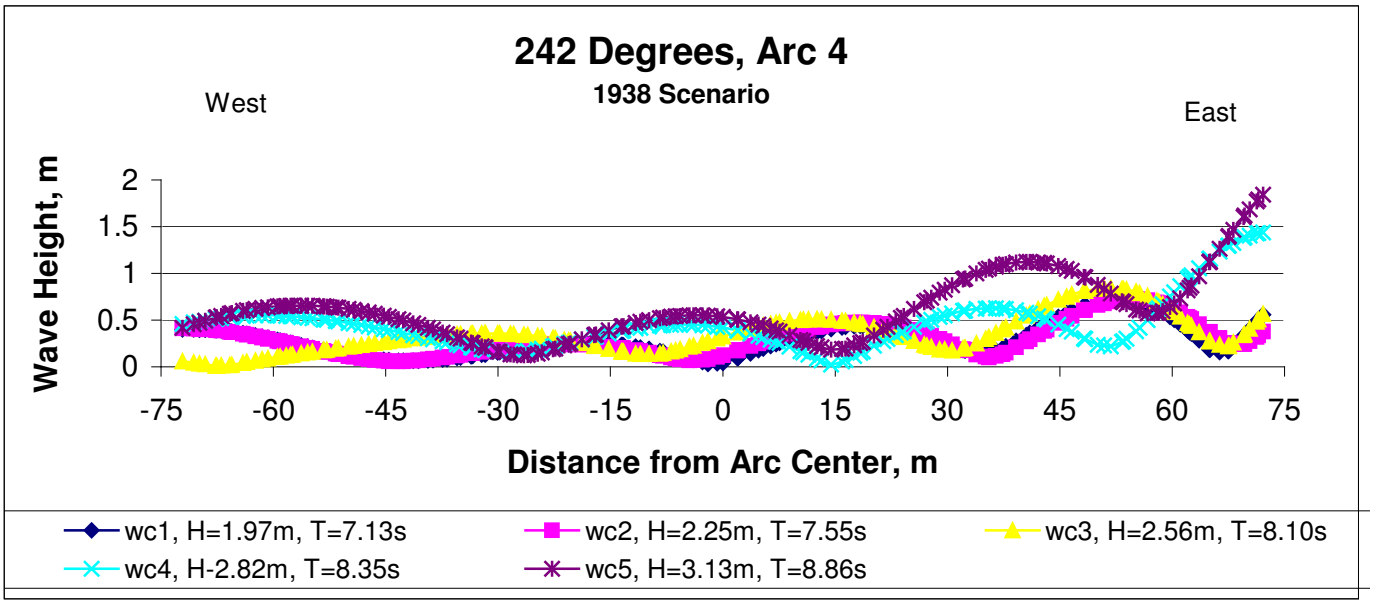

242 Degrees, Arc 1
2003 Scenario
North Jetty
South Jetty
Wave Height, m
4
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

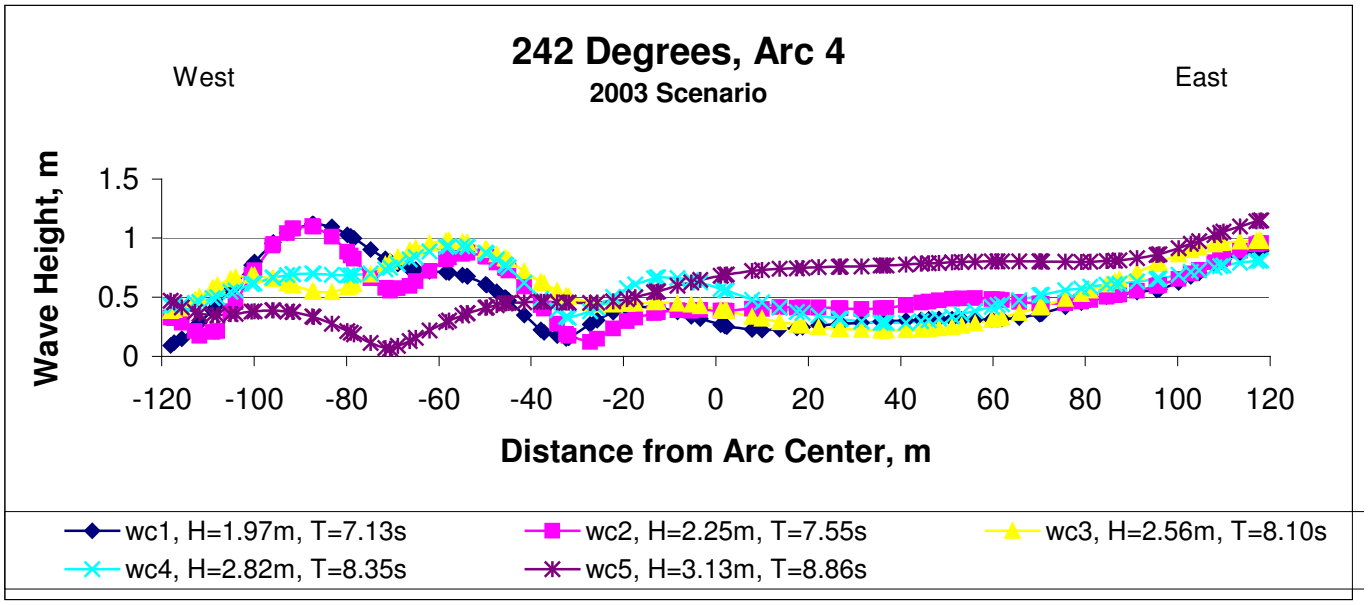

242 Degrees, Arc 2
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3.5
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

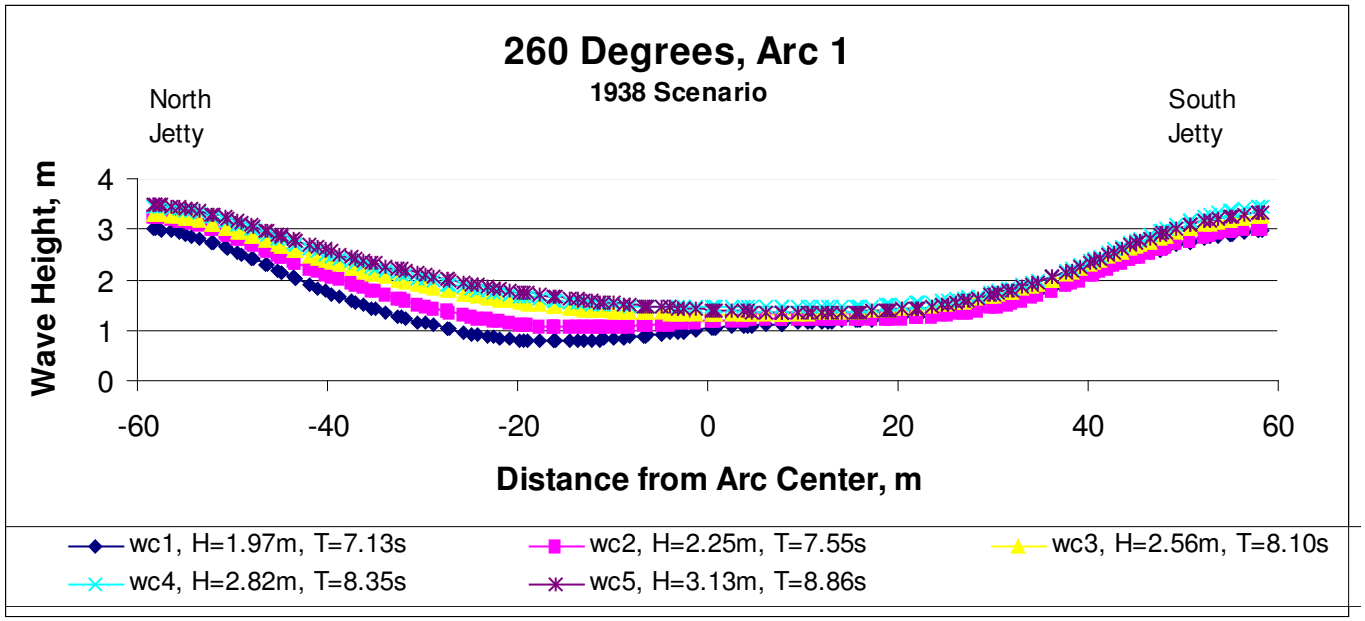

242 Degrees, Arc 2
2003 Scenario
North Jetty
South Jetty
Wave Height, m
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

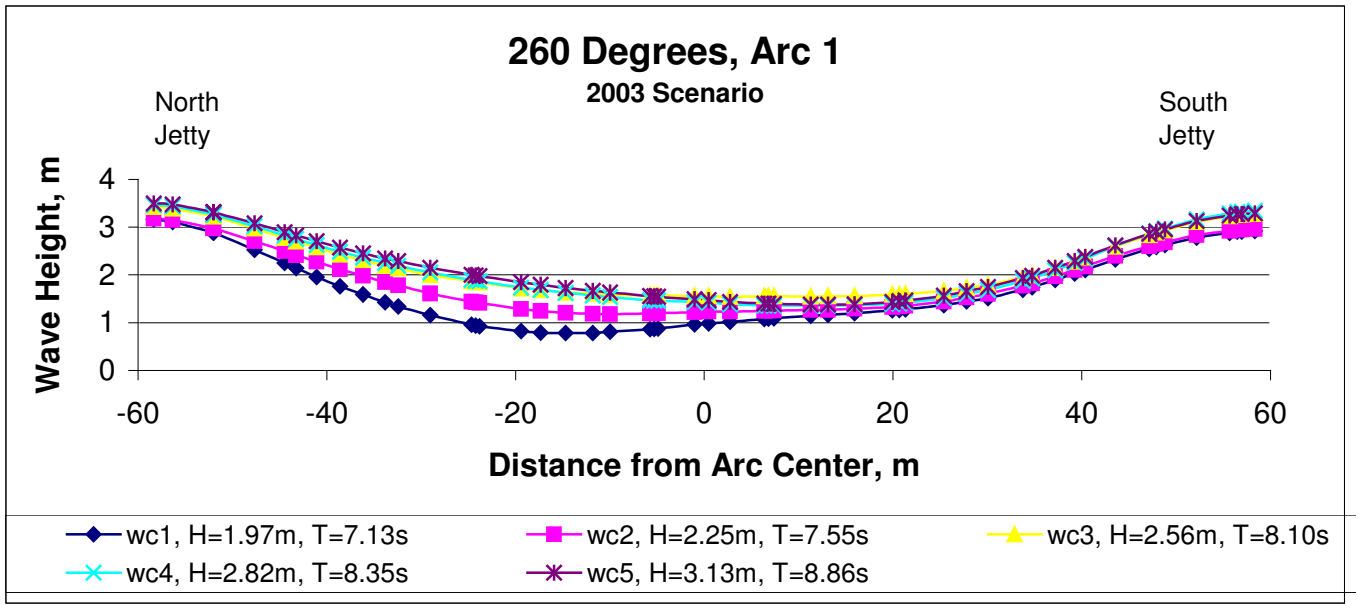

242 Degrees, Arc 3
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

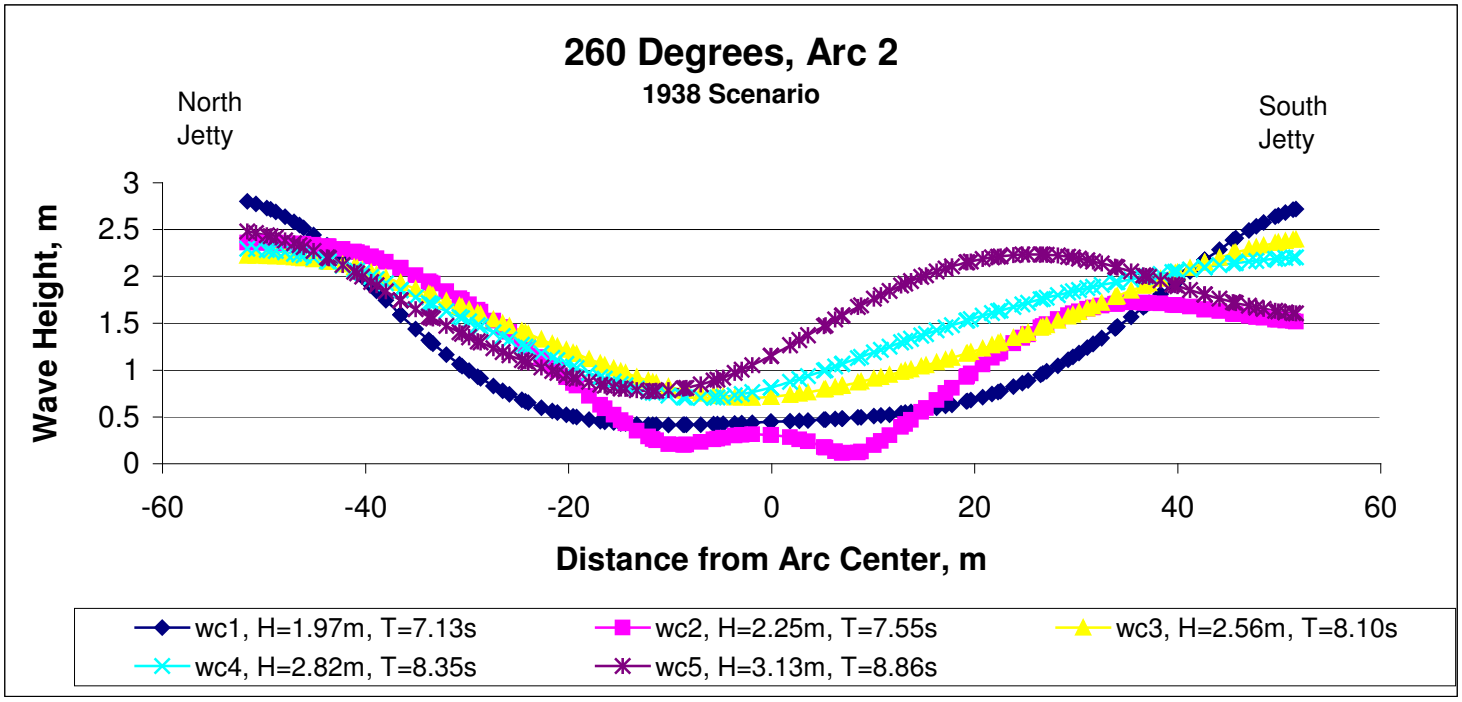

242 Degrees, Arc 3
2003 Scenario
North Jetty
South Jetty
Wave Height, m
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

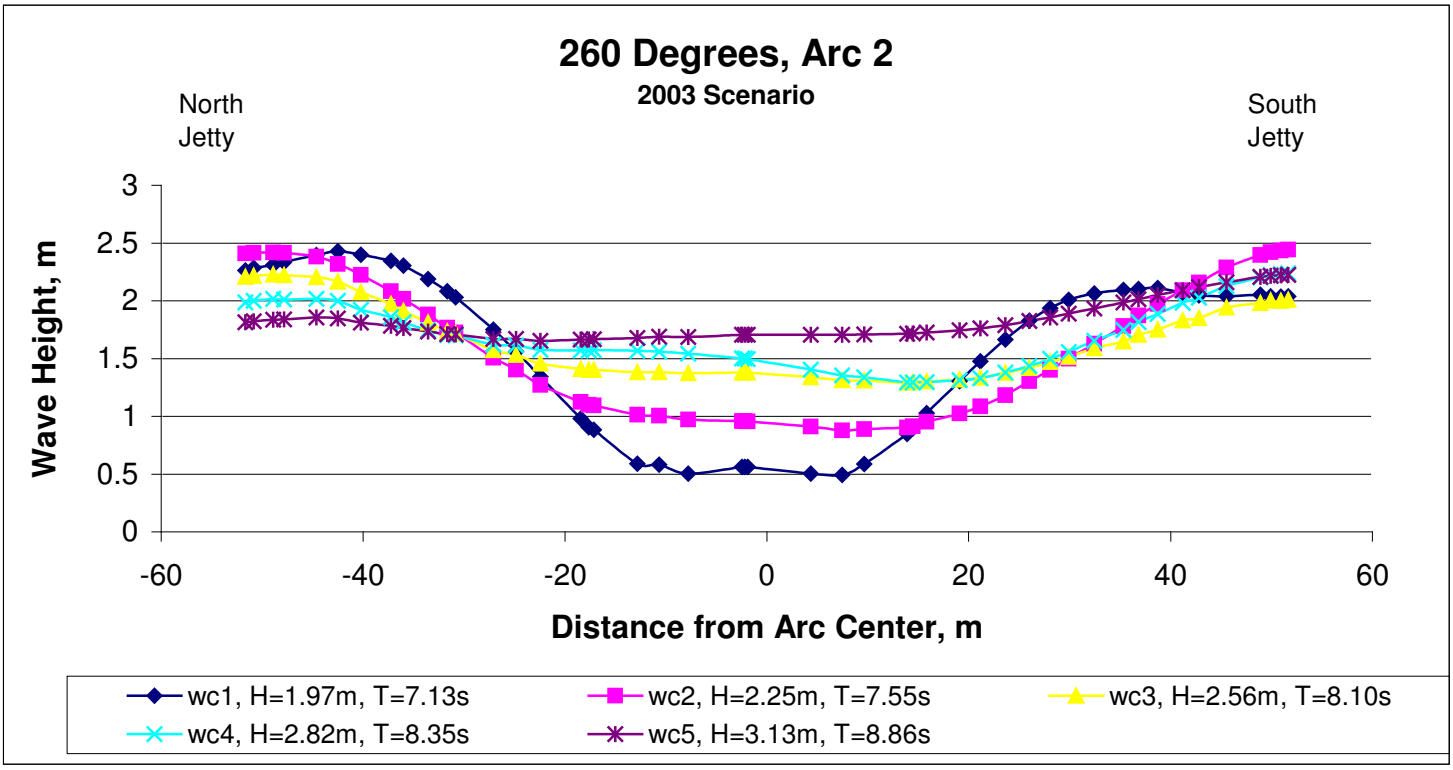

242 Degrees, Arc 4
1938 Scenario
West
East
Wave Height, m
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

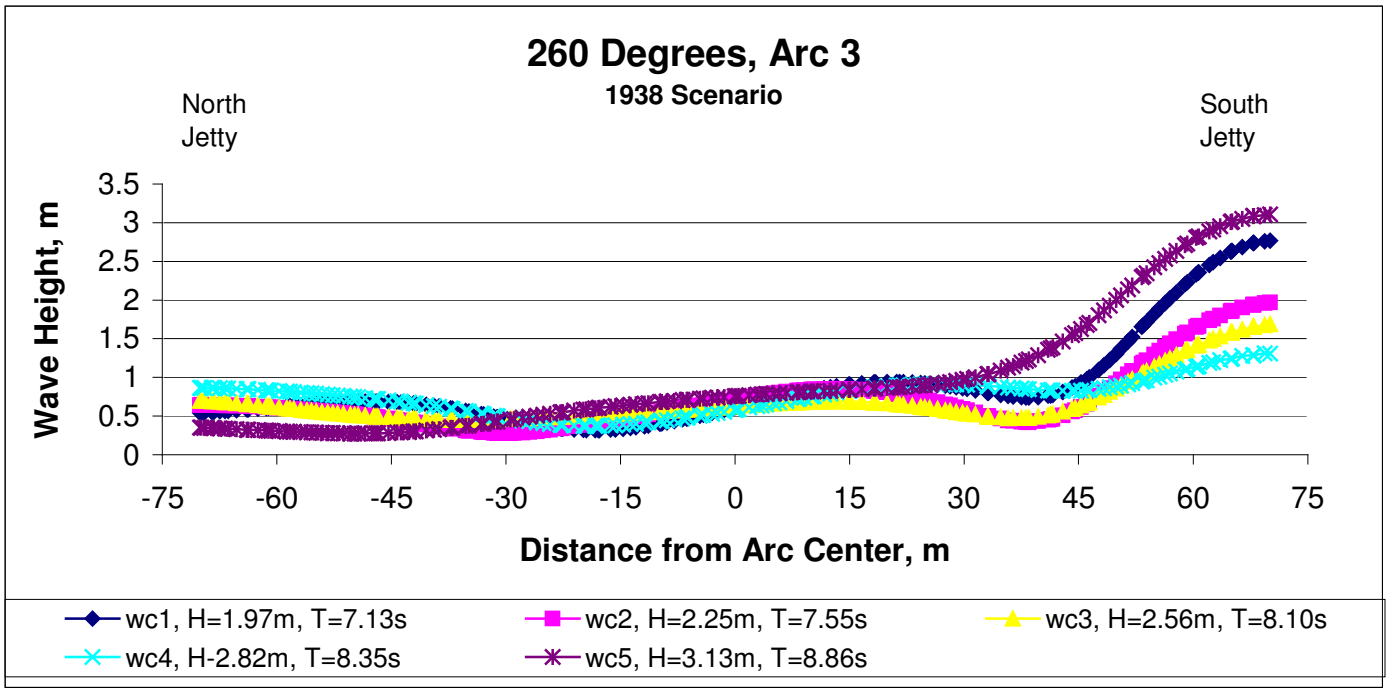

242 Degrees, Arc 4
2003 Scenario
West
East
Wave Height, m
1.5
1
0.5
0
-120
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

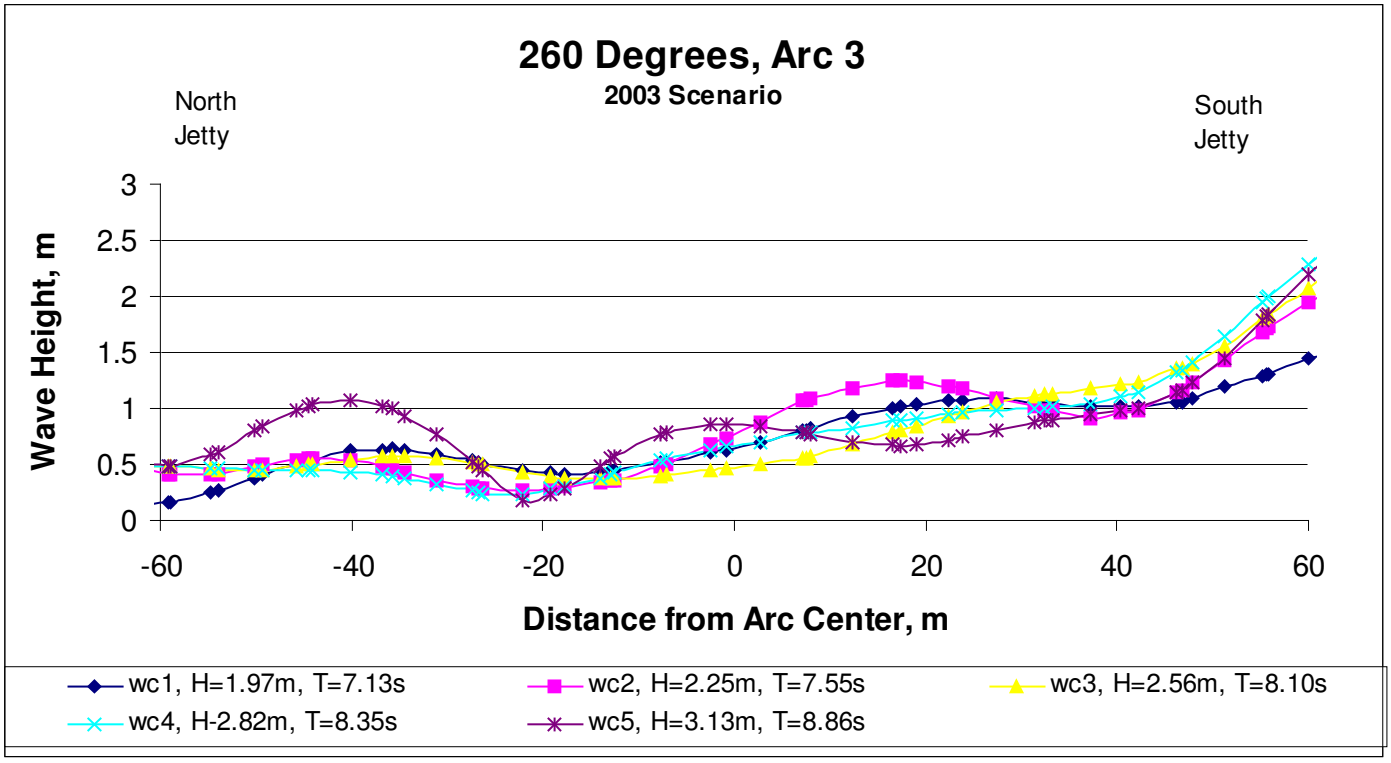

260 Degrees, Arc 1
1938 Scenario
North Jetty
South Jetty
Wave Height, m
4
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

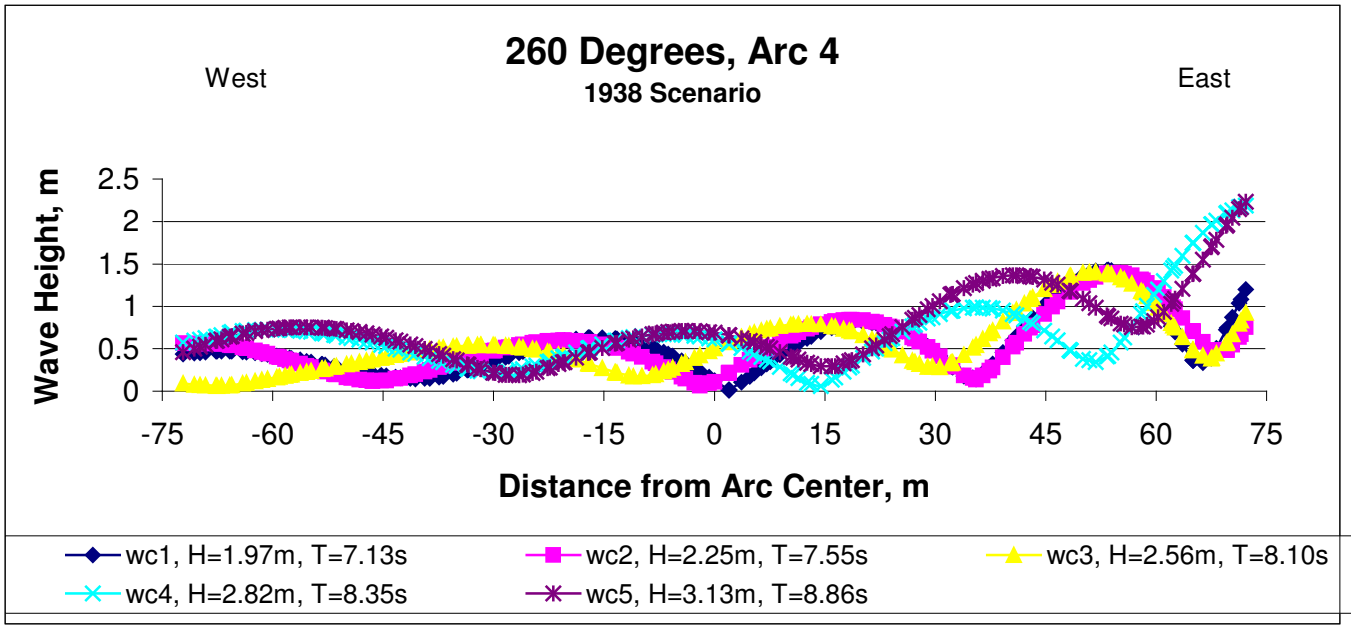

260 Degrees, Arc 1
2003 Scenario
North Jetty
South Jetty
Wave Height, m
4
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

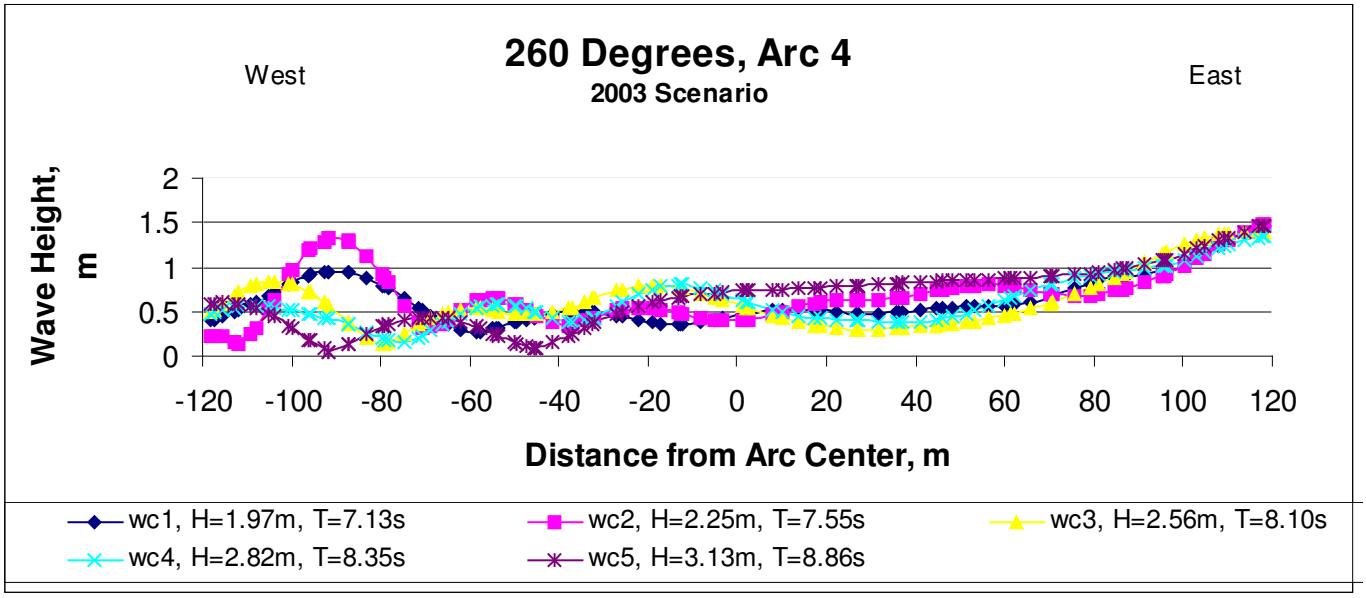

260 Degrees, Arc 2
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

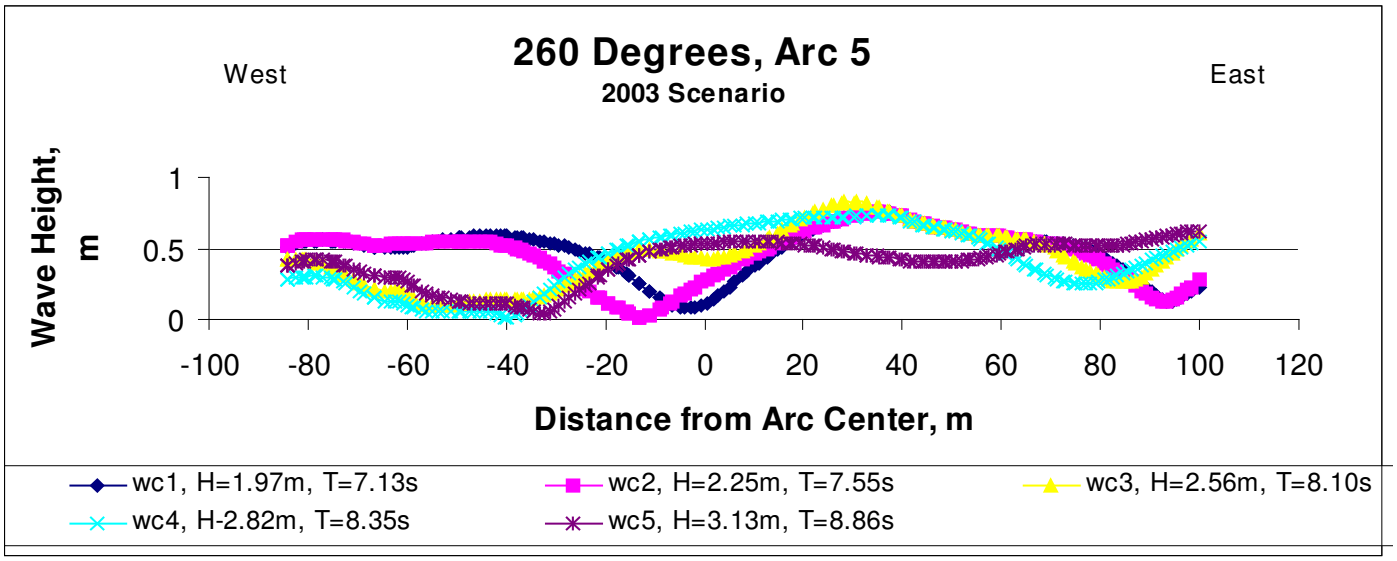

260 Degrees, Arc 2
2003 Scenario
North Jetty
South Jetty
Wave Height, m
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

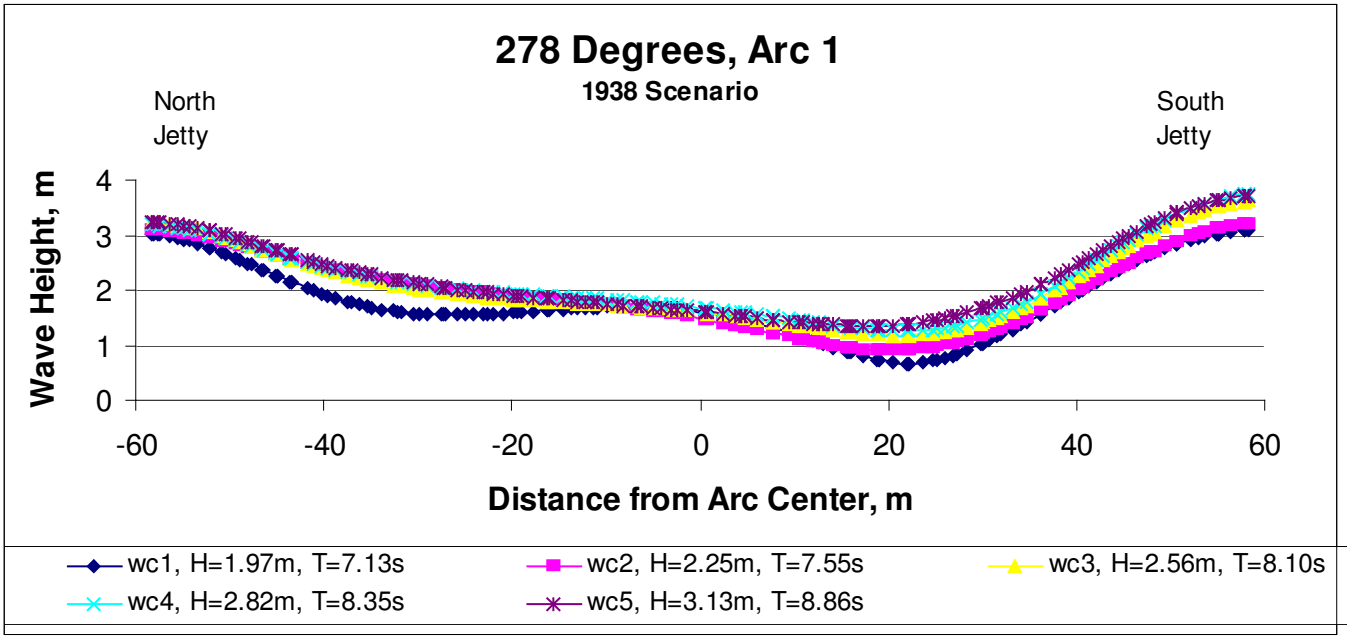

260 Degrees, Arc 3
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3.5
3
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

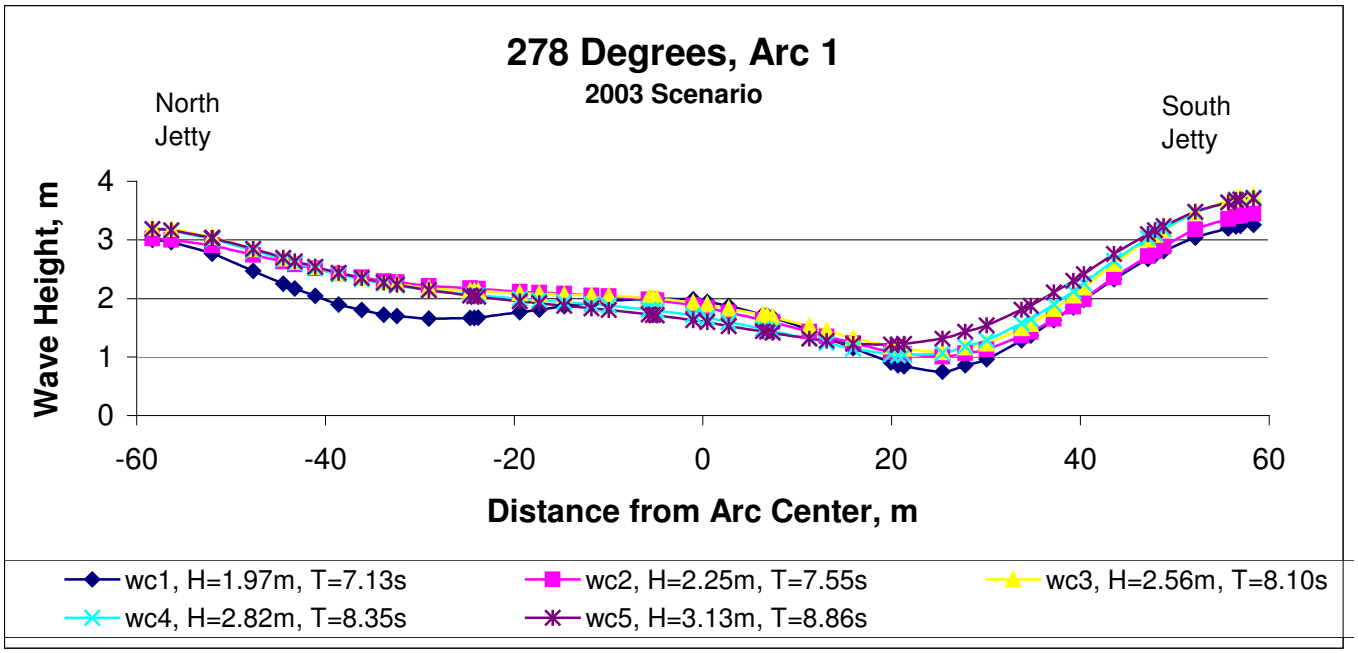

260 Degrees, Arc 3
2003 Scenario
North Jetty
South Jetty
Wave Height, m
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

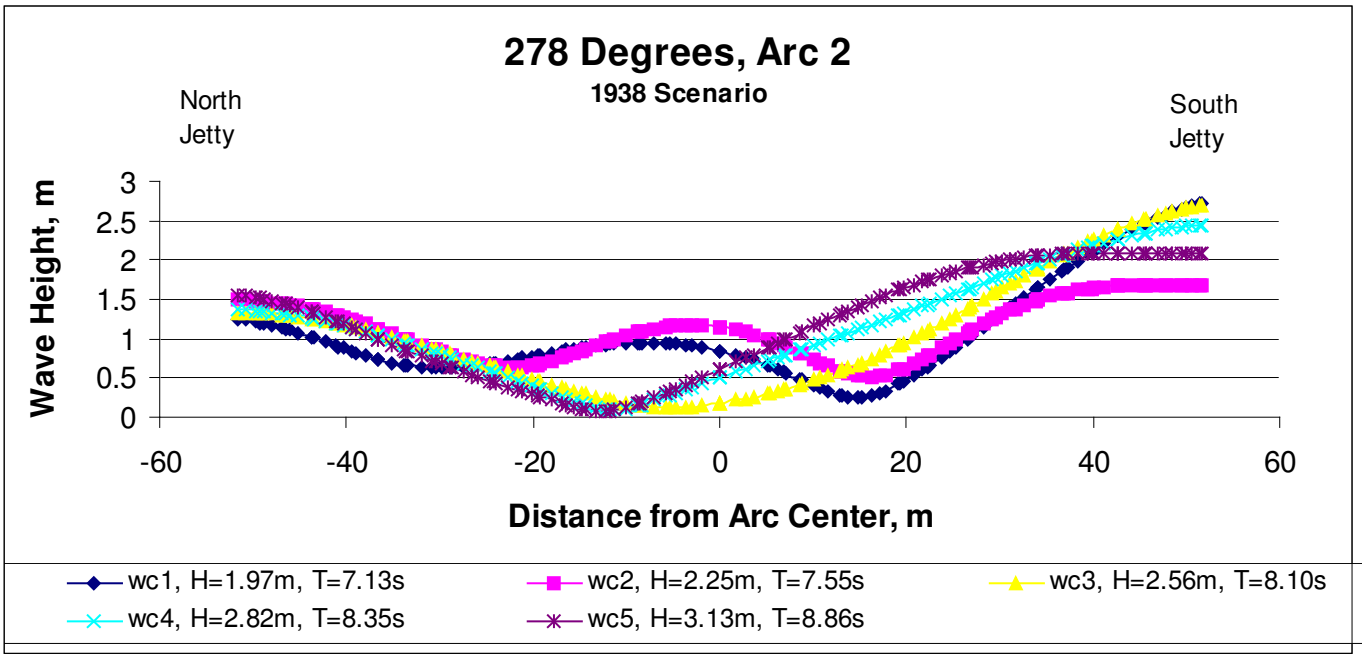

260 Degrees, Arc 4
1938 Scenario
West
East
Wave Height, m
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

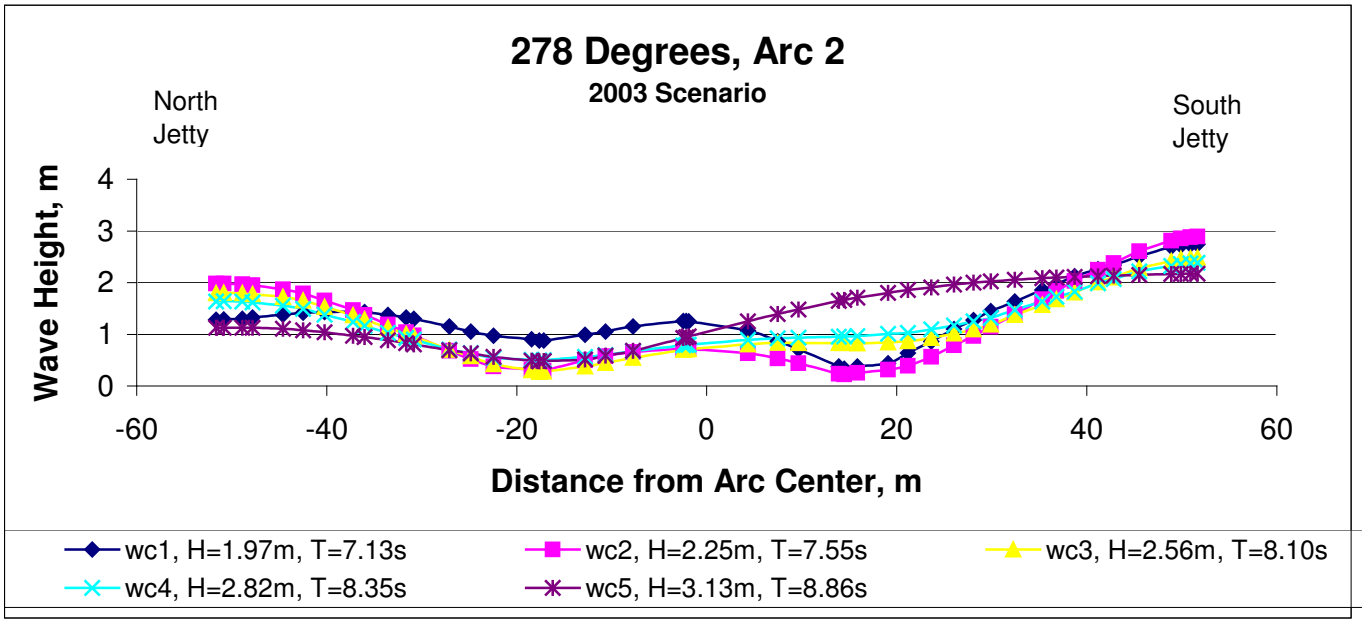

260 Degrees, Arc 4
2003 Scenario
West
East
Wave Height, m
2
1.5
1
0.5
0
-120
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

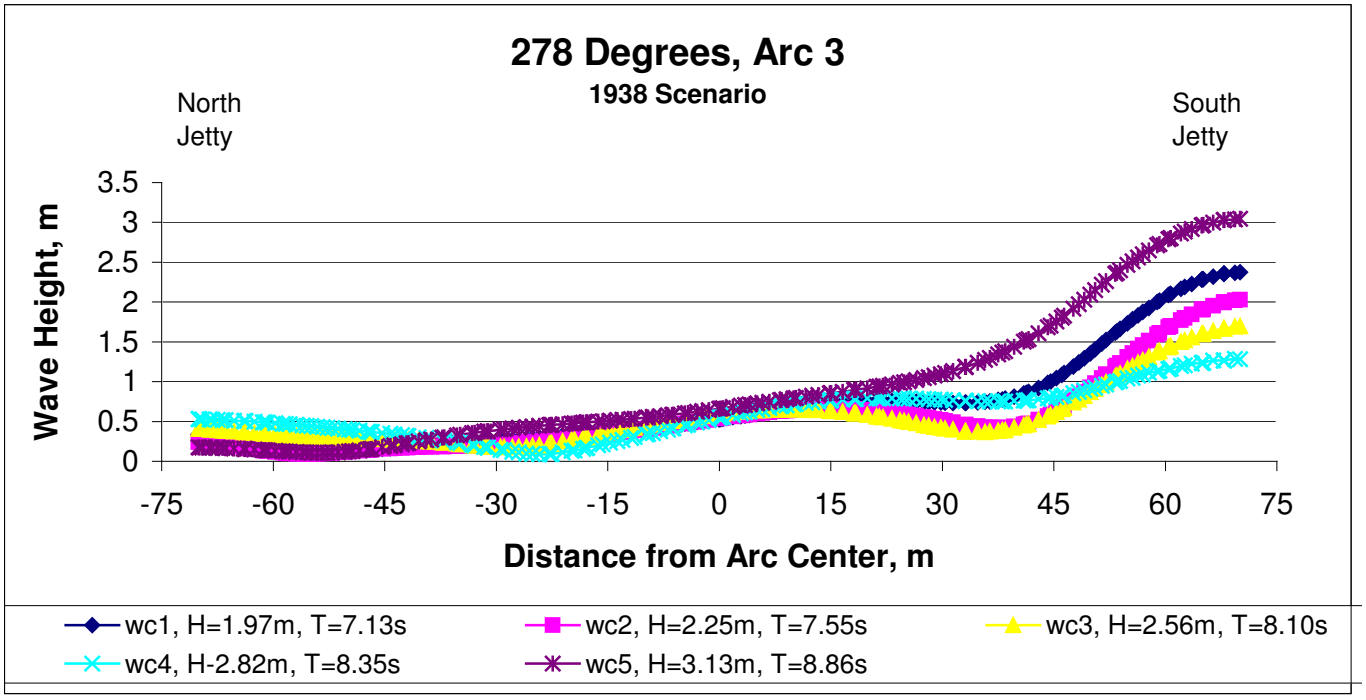

260 Degrees, Arc 5
2003 Scenario
West
East
Wave Height, m
1
0.5
0
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

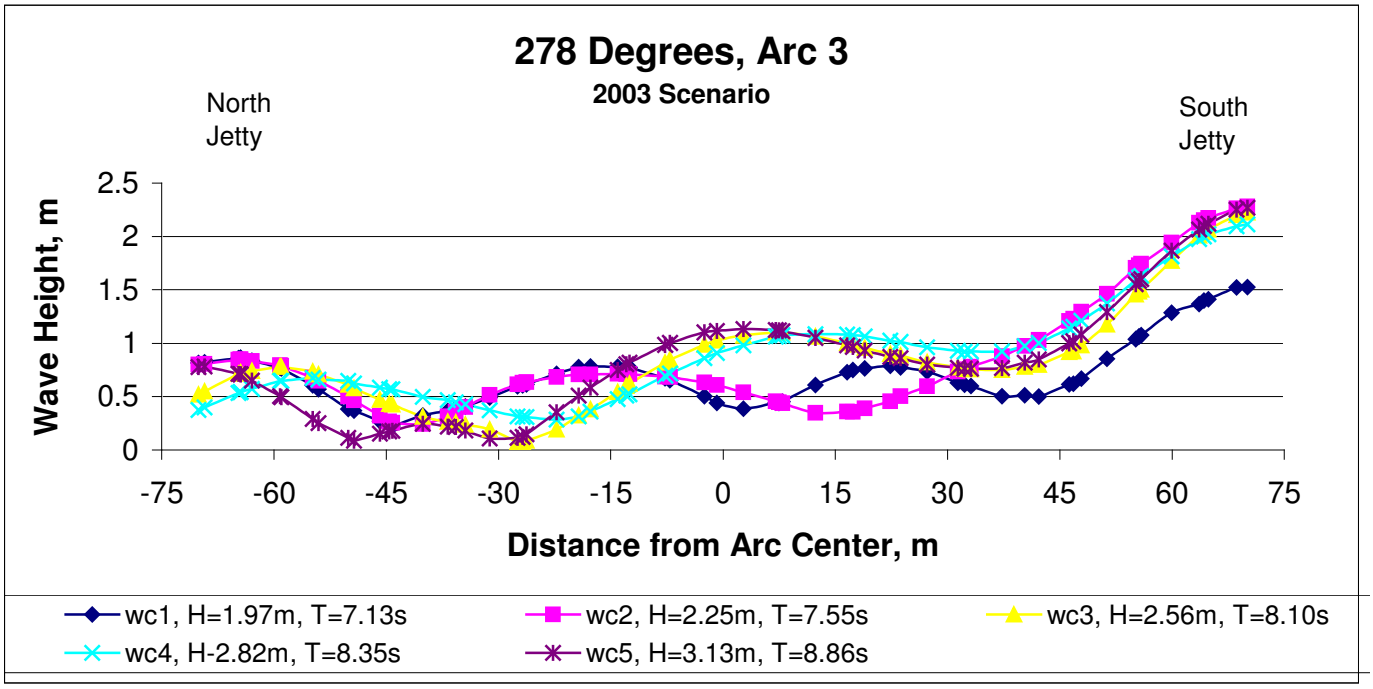

278 Degrees, Arc 1
1938 Scenario
North Jetty
South Jetty
Wave Height, m
4
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

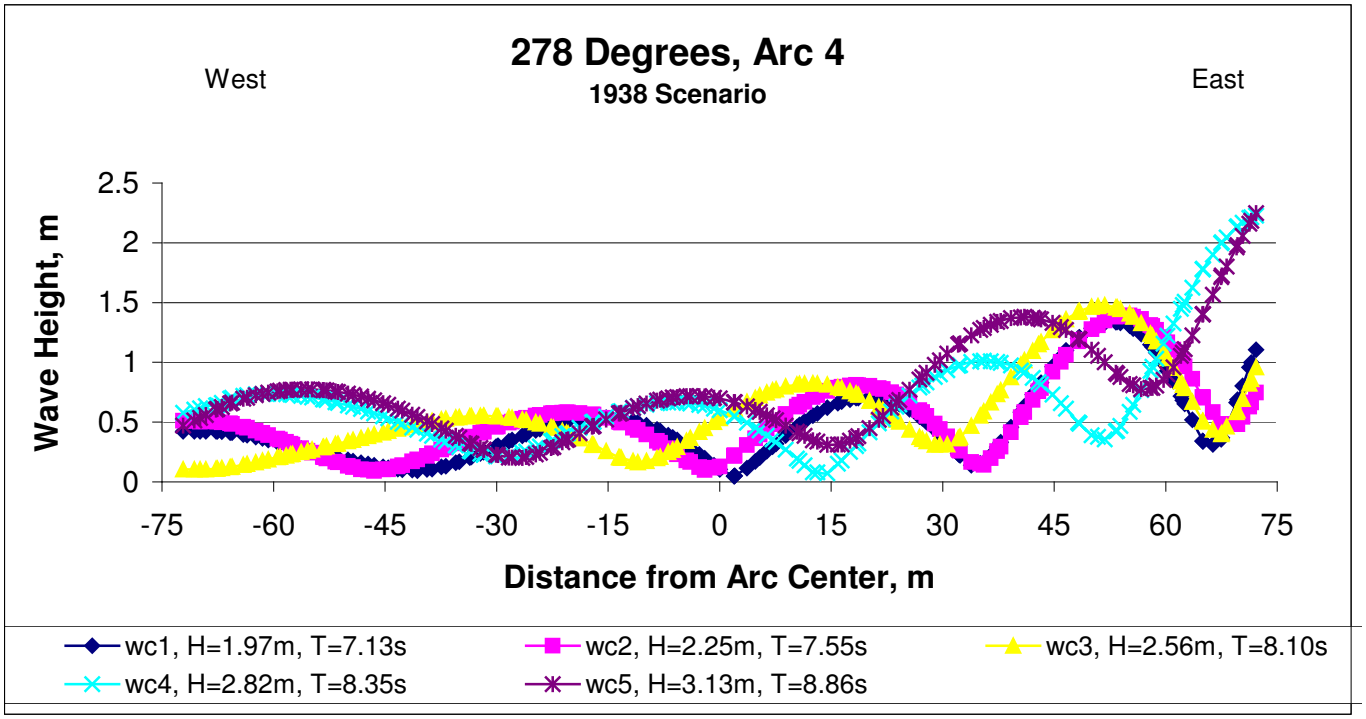

278 Degrees, Arc 1
2003 Scenario
North Jetty
South Jetty
Wave Height, m
4
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

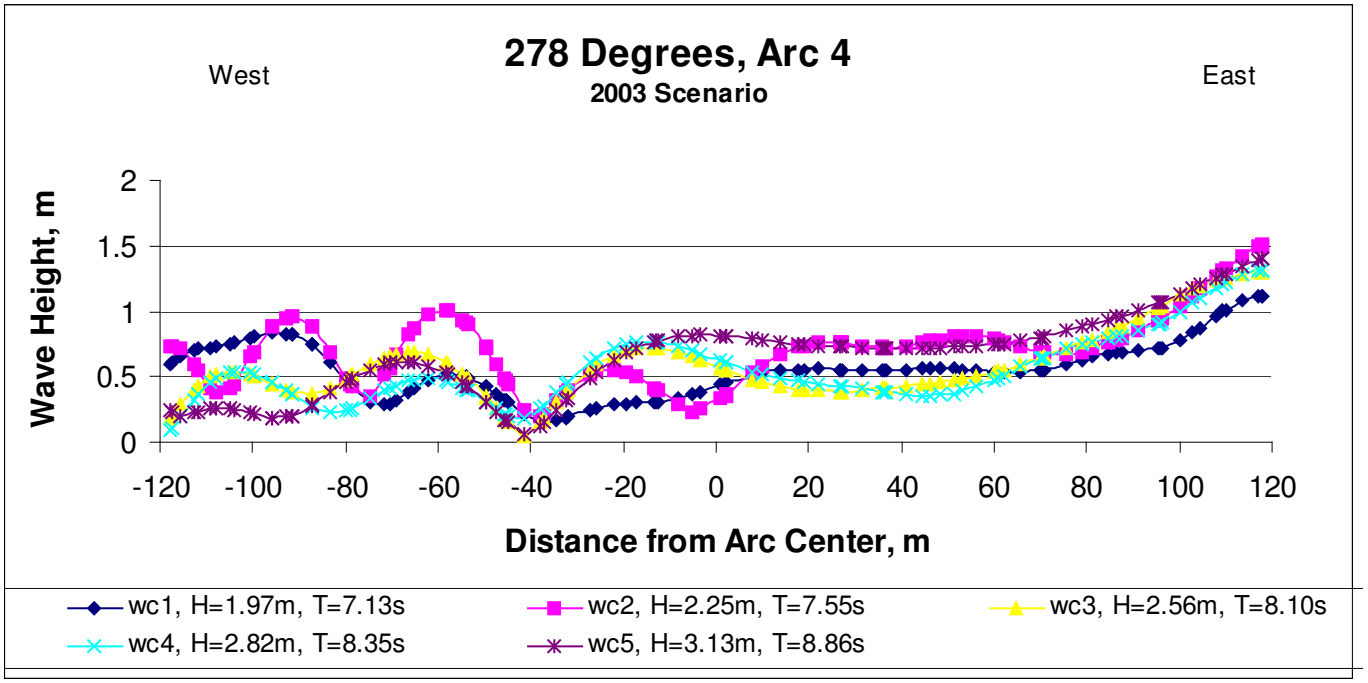

278 Degrees, Arc 2
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

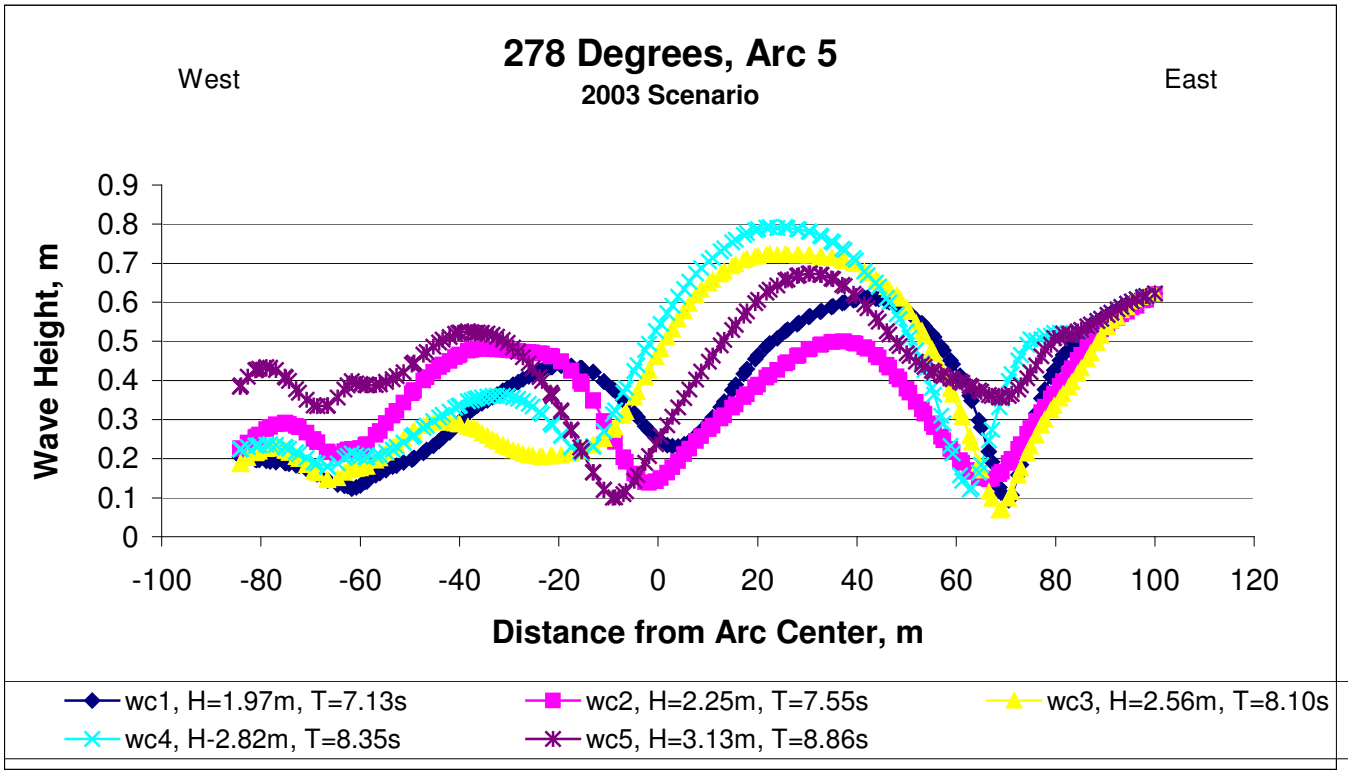

278 Degrees, Arc 2
2003 Scenario
North Jetty
South Jetty
Wave Height, m
4
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

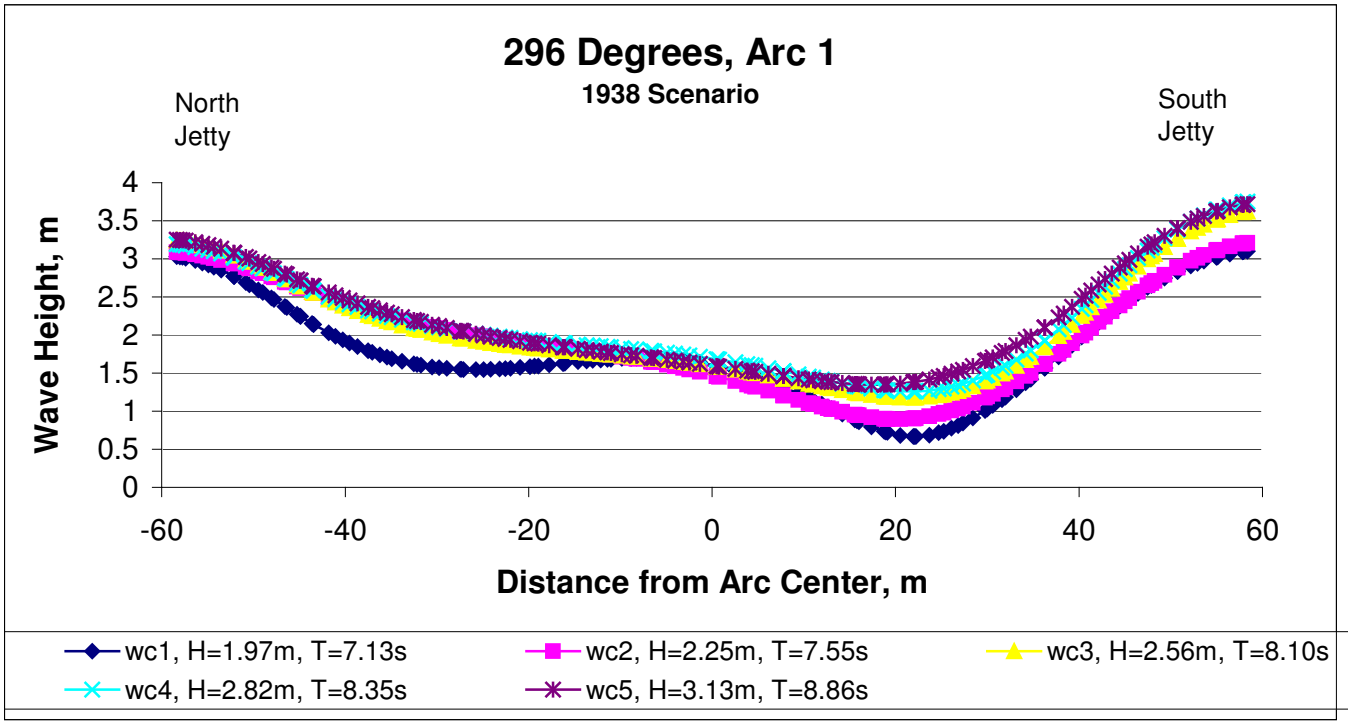

278 Degrees, Arc 3
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3.5
3
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

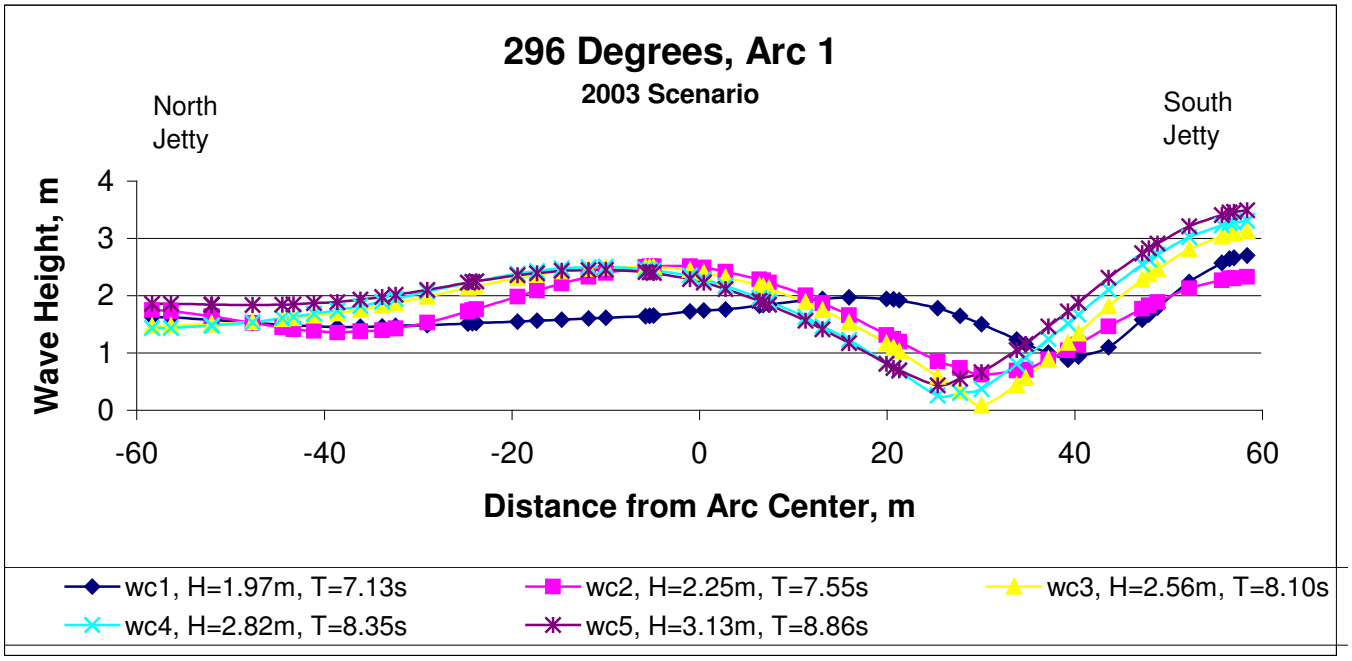

278 Degrees, Arc 3
2003 Scenario
North Jetty
South Jetty
Wave Height, m
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

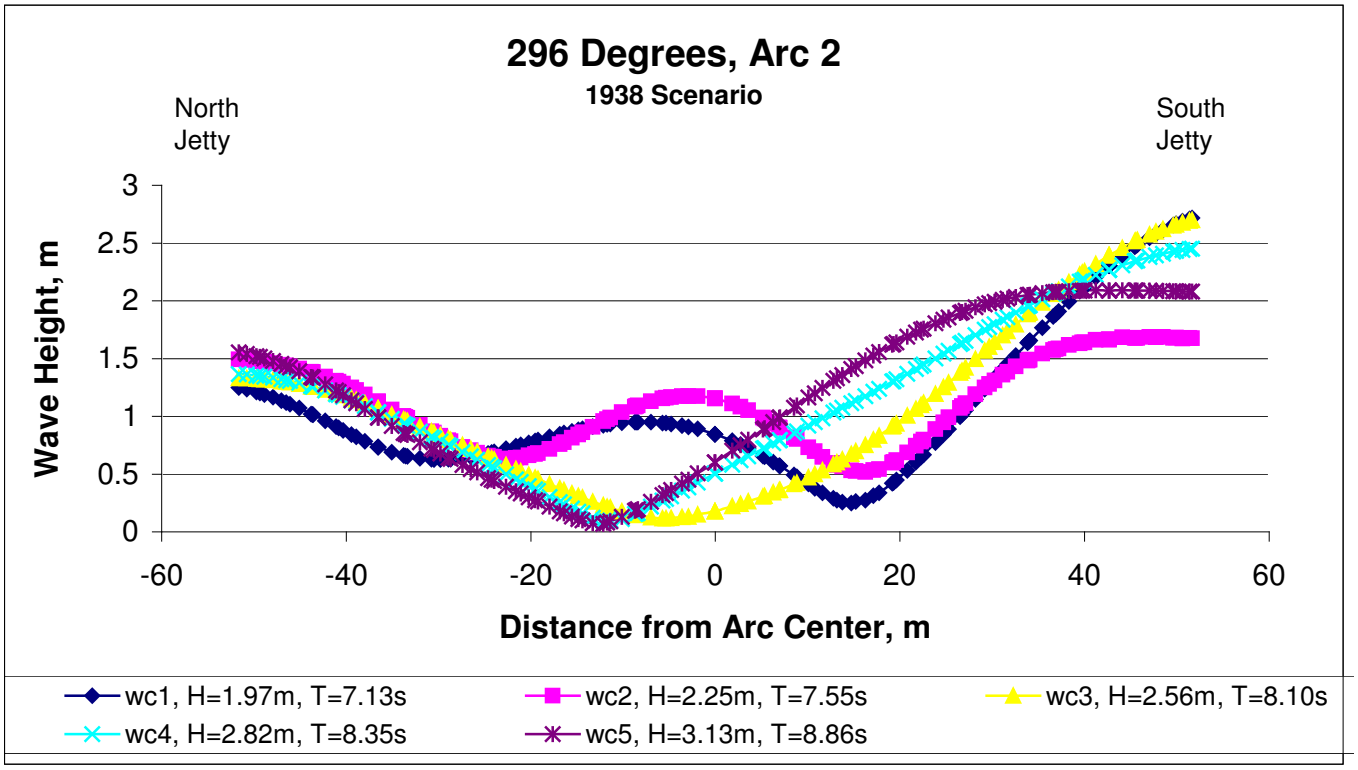

278 Degrees, Arc 4
1938 Scenario
West
East
Wave Height, m
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

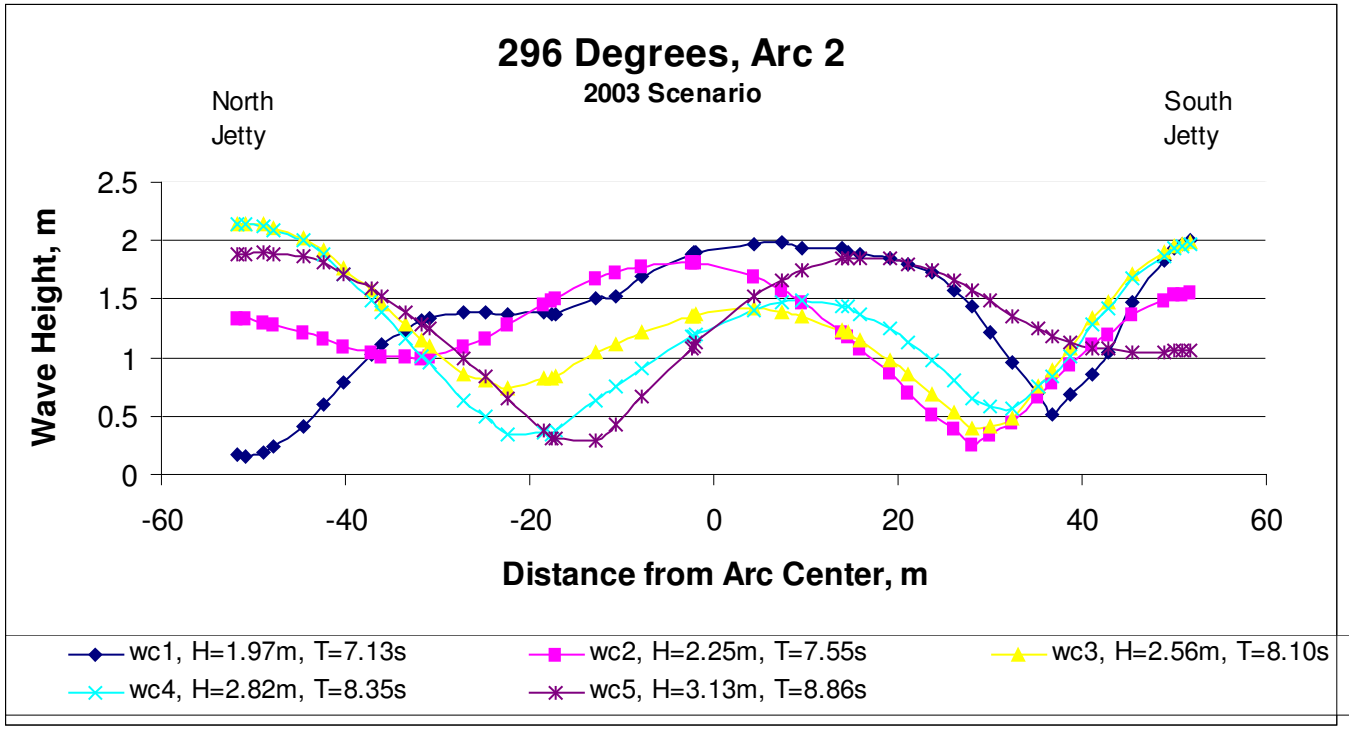

278 Degrees, Arc 4
2003 Scenario
West
East
Wave Height, m
2
1.5
1
0.5
0
-120
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

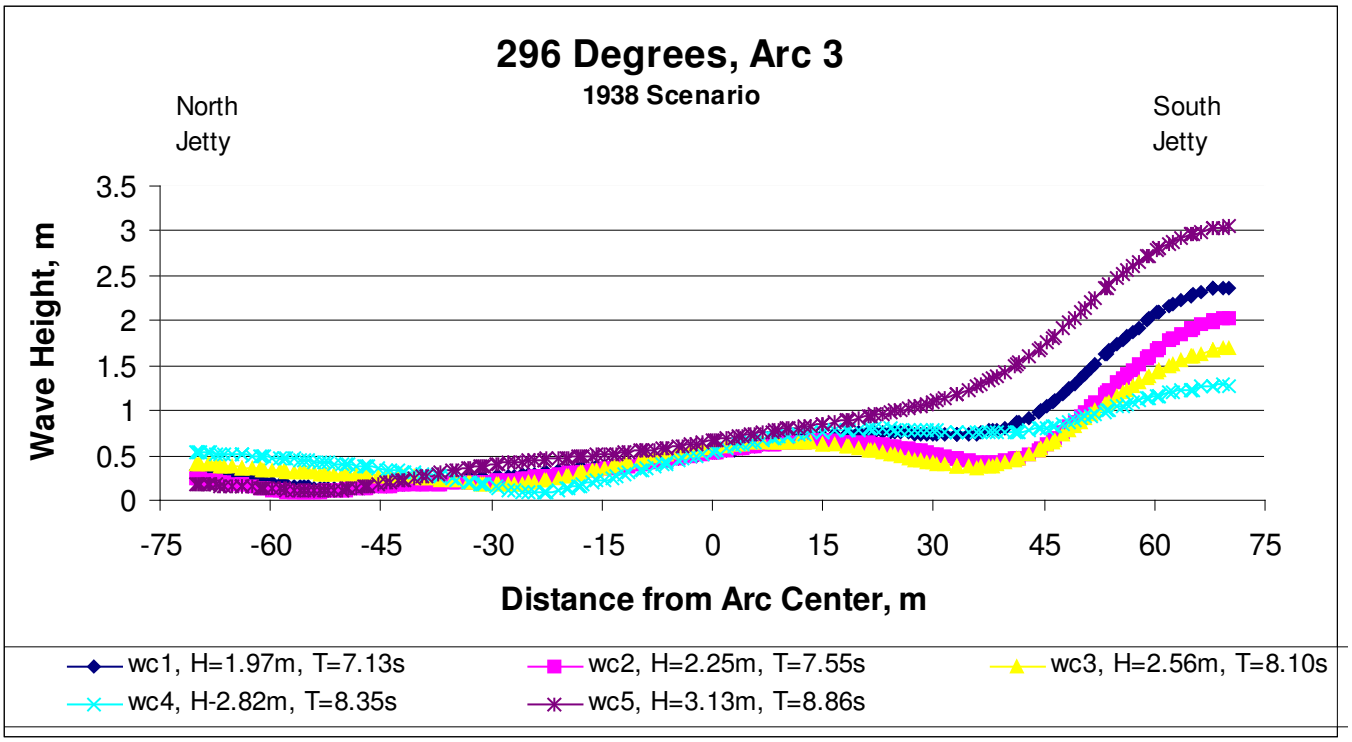

278 Degrees, Arc 5
2003 Scenario
West
East
Wave Height, m
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

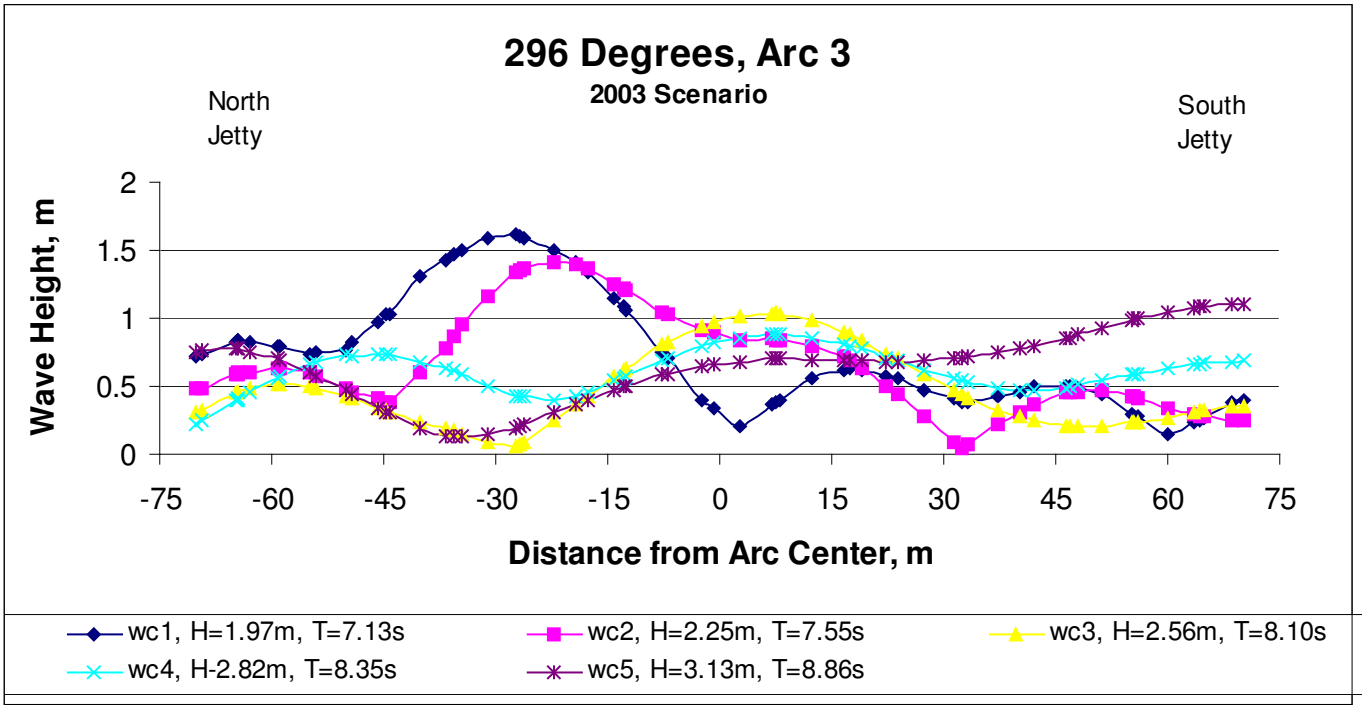

296 Degrees, Arc 1
1938 Scenario
North Jetty
South Jetty
Wave Height, m
4
3.5
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

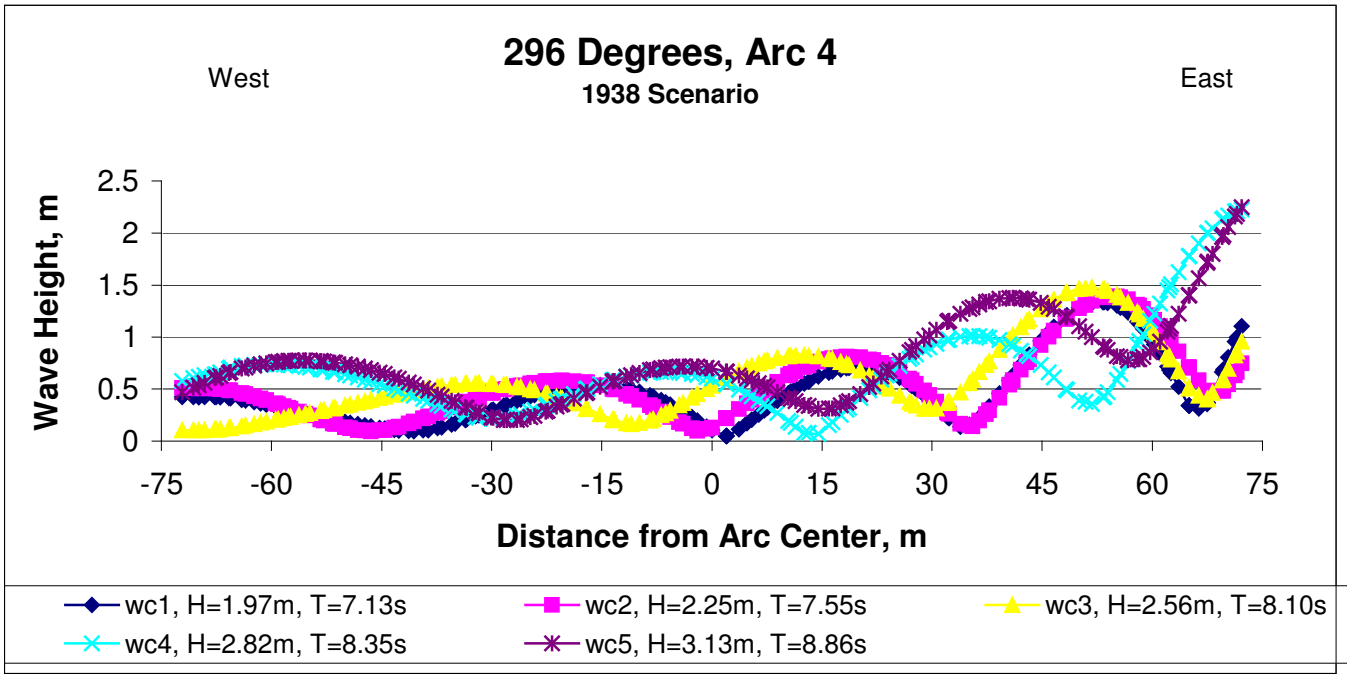

296 Degrees, Arc 1
2003 Scenario
North Jetty
South Jetty
Wave Height, m
4
3
2
1
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

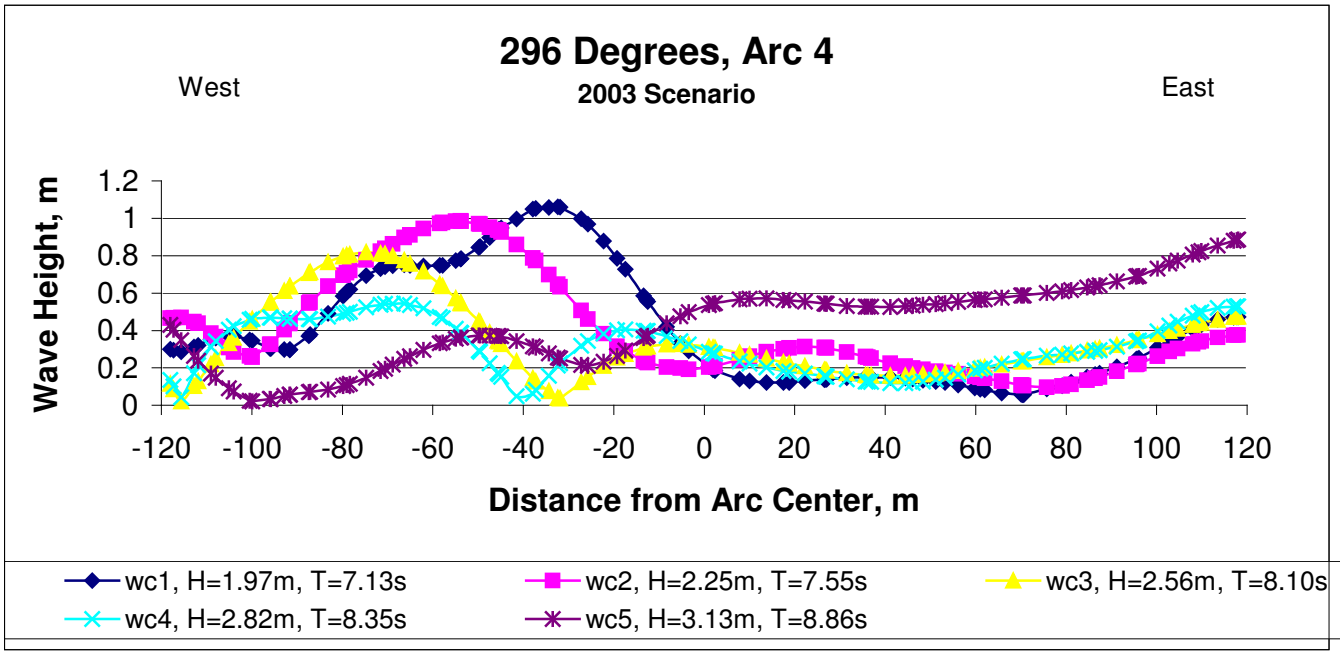

296 Degrees, Arc 2
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s

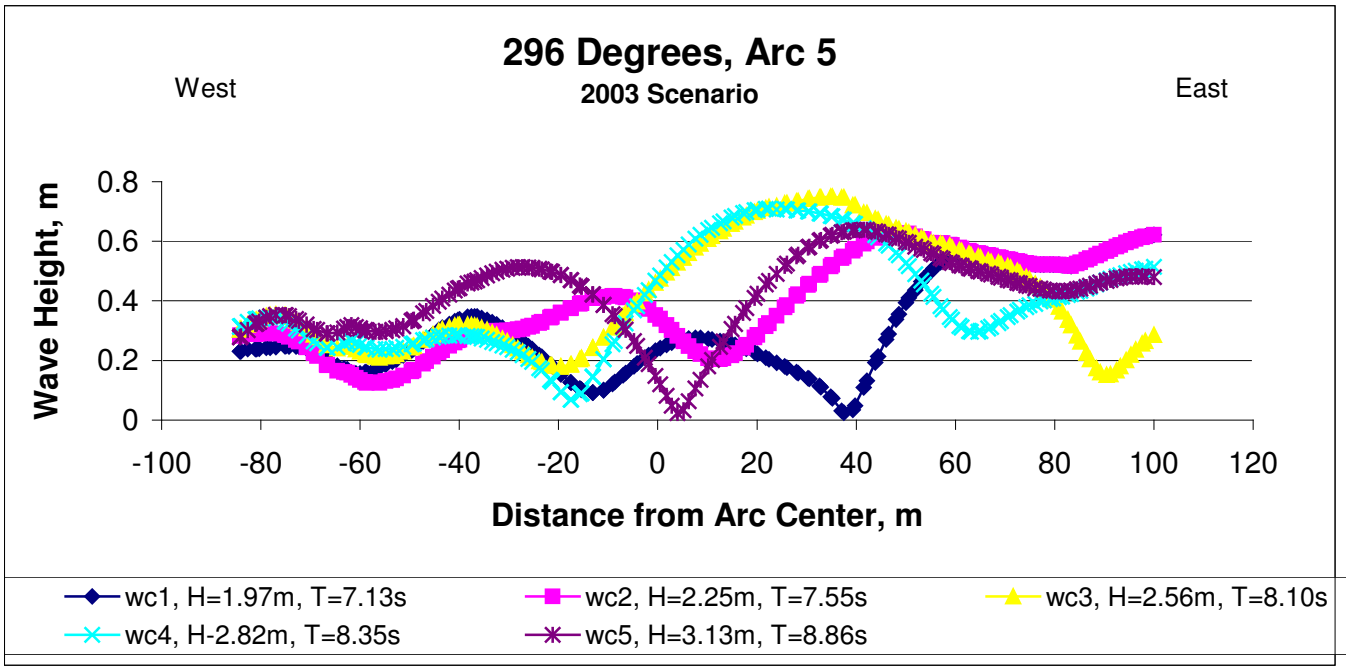

296 Degrees, Arc 2
2003 Scenario
North Jetty
South Jetty
Wave Height, m
2.5
2
1.5
1
0.5
0
-60
-40
-20
0
20
40
60
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s


296 Degrees, Arc 3
1938 Scenario
North Jetty
South Jetty
Wave Height, m
3.5
3
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s


296 Degrees, Arc 3
2003 Scenario
North Jetty
South Jetty
Wave Height, m
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s


296 Degrees, Arc 4
1938 Scenario
West
East
Wave Height, m
2.5
2
1.5
1
0.5
0
-75
-60
-45
-30
-15
0
15
30
45
60
75
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s


296 Degrees, Arc 4
2003 Scenario
West
East
Wave Height, m
1.2
1
0.8
0.6
0.4
0.2
0
-120
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H=2.82m, T=8.35s
wc5, H=3.13m, T=8.86s


296 Degrees, Arc 5
2003 Scenario
West
East
Wave Height, m
0.8
0.6
0.4
0.2
0
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
Distance from Arc Center, m
wc1, H=1.97m, T=7.13s
wc2, H=2.25m, T=7.55s
wc3, H=2.56m, T=8.10s
wc4, H-2.82m, T=8.35s
wc5, H=3.13m, T=8.86s