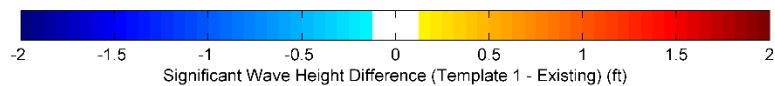
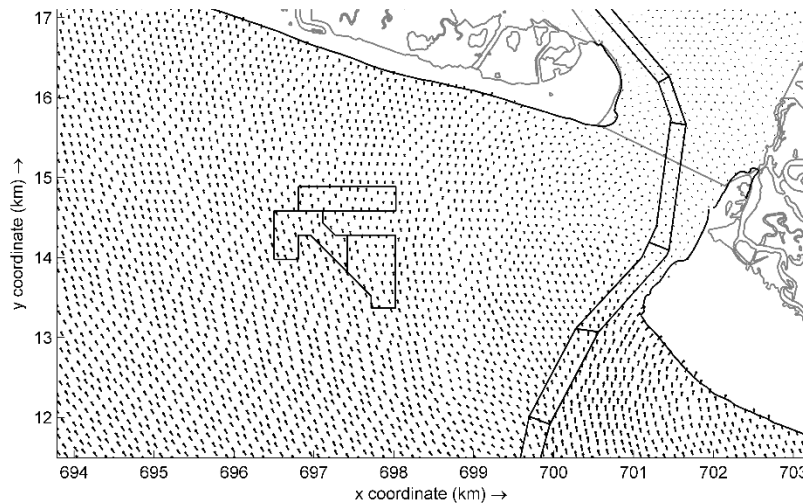
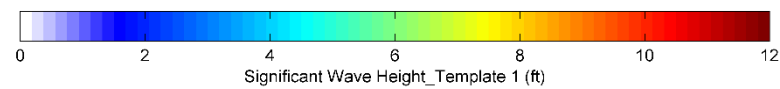
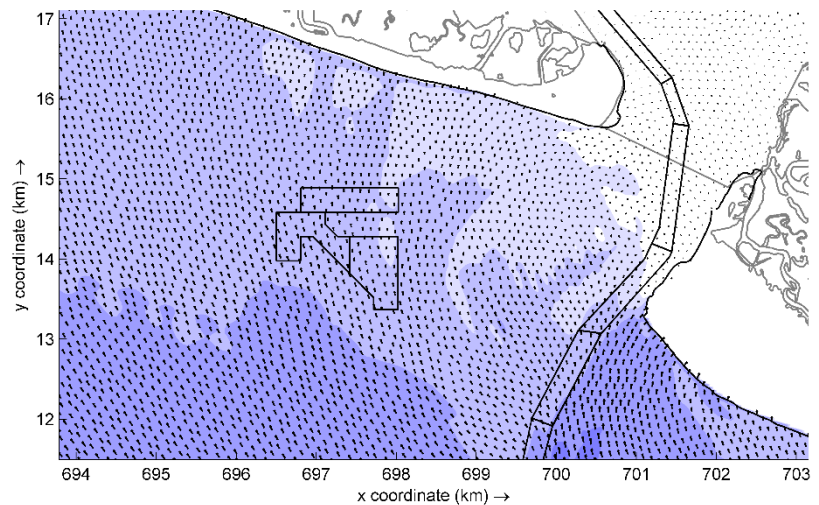
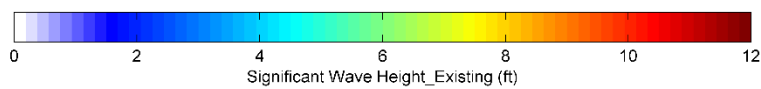
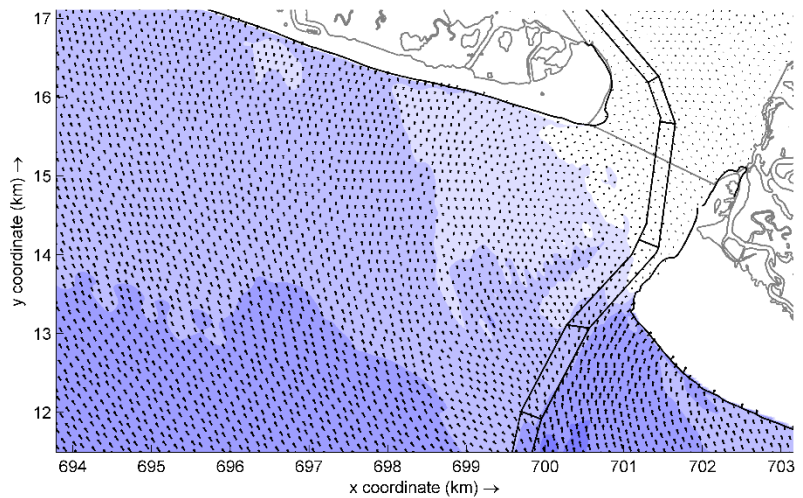




APPENDIX C1

Predicted wave fields for Existing and after-dredge bathymetric conditions
and changes in wave height caused by after-dredge bathymetric condition

Template 1



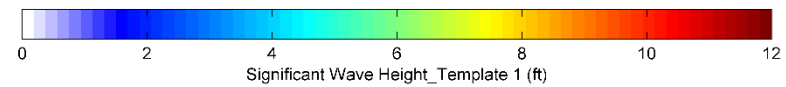
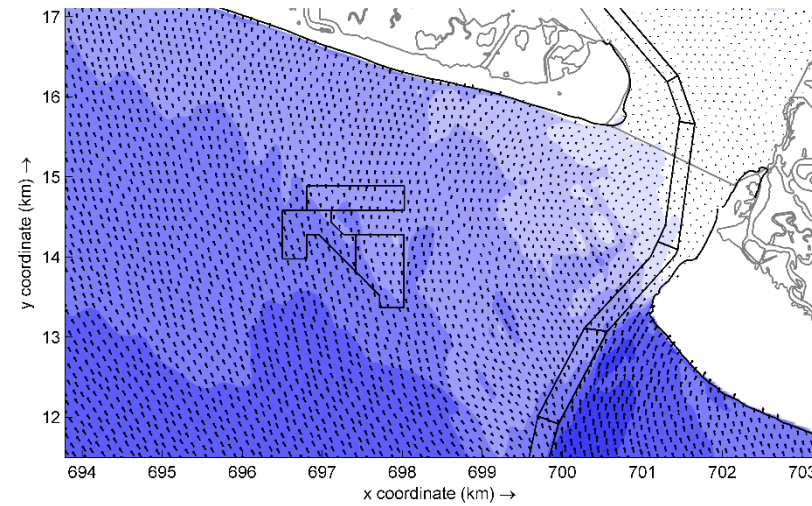
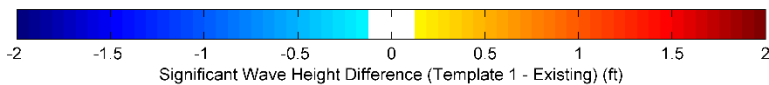
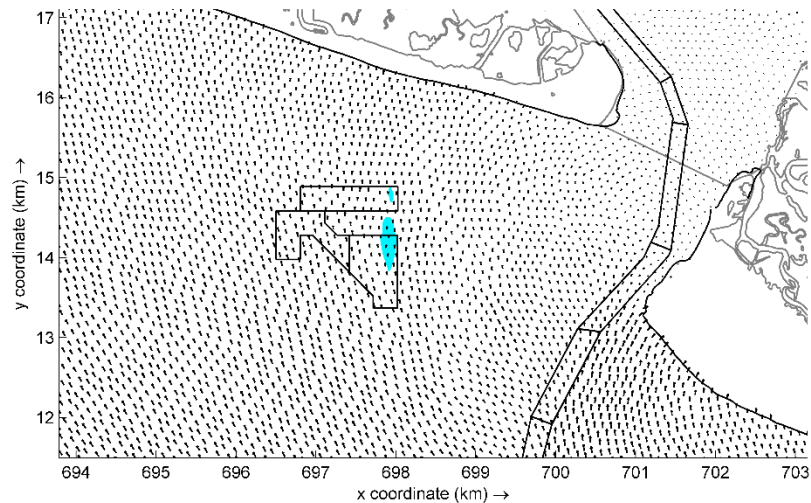
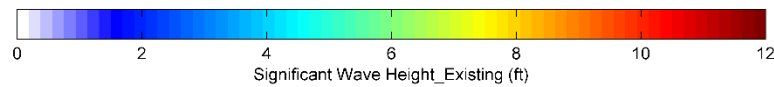
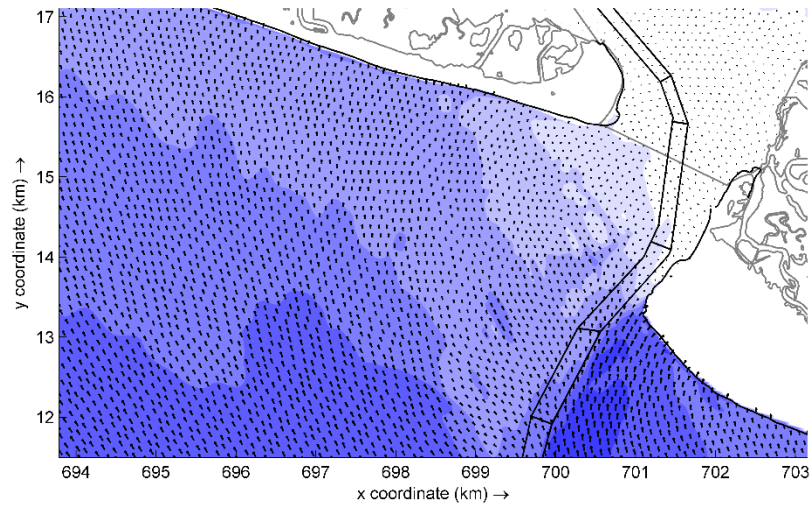
Offshore Wave Case01:

$H_s = 2.5$ ft, $T_p = 9.0$ s, Dir = 97.7 degN

Percent Occurrence = 4.854%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



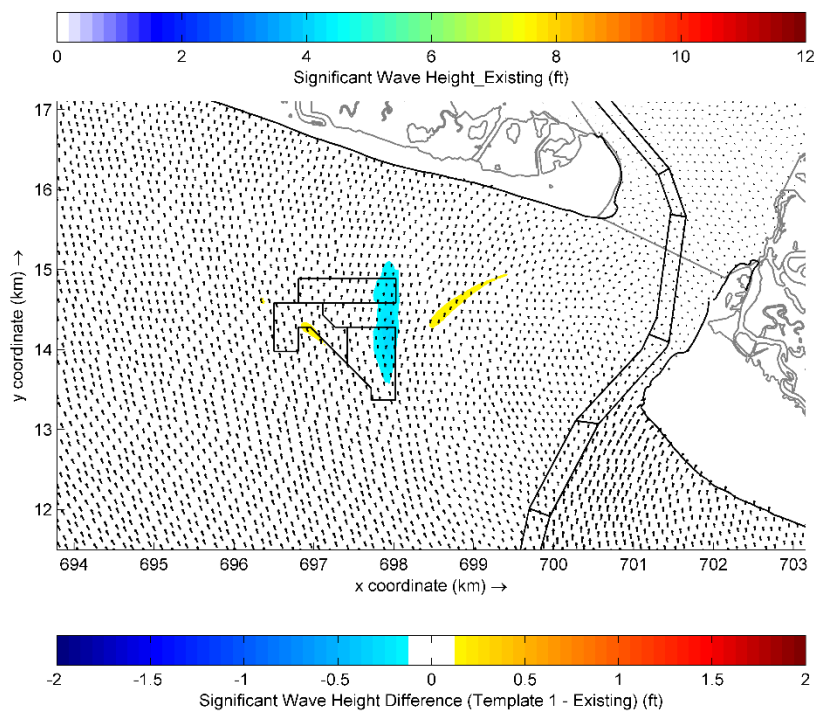
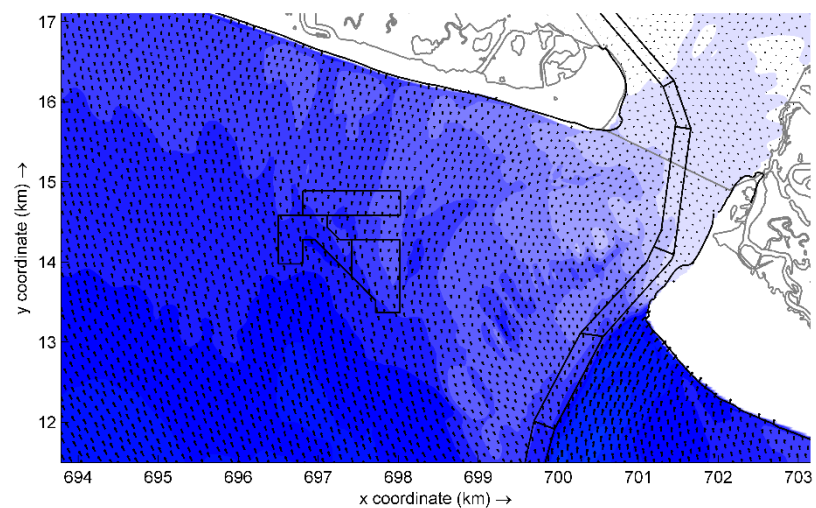
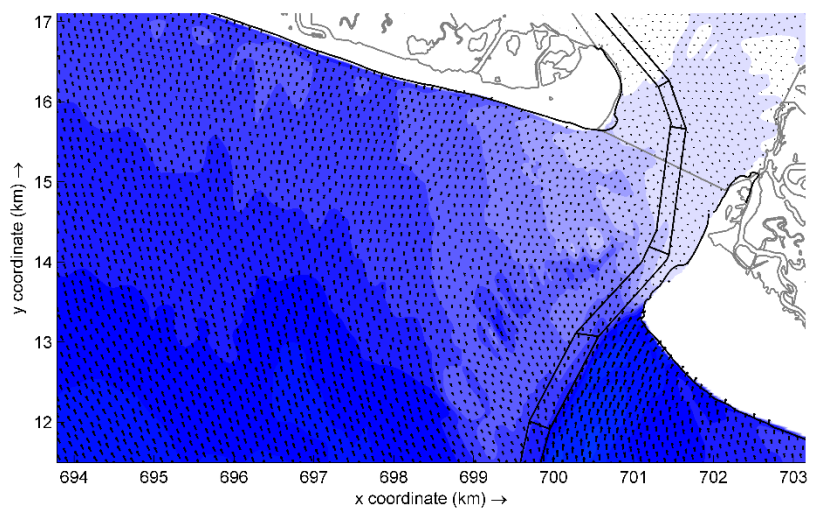
Offshore Wave Case02:

$H_s = 4.4$ ft, $T_p = 9.5$ s, Dir = 98.0 degN

Percent Occurrence = 3.973%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



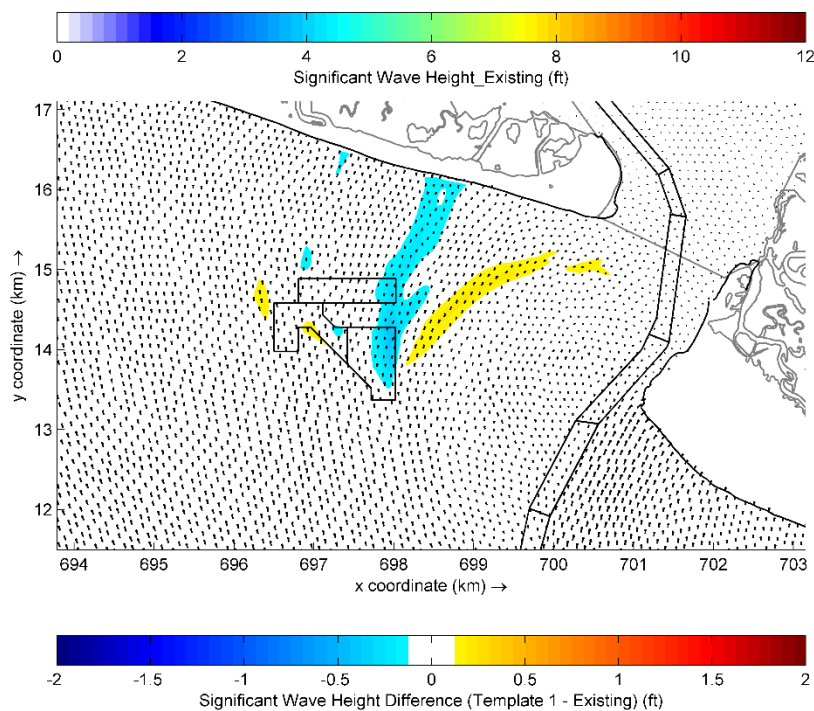
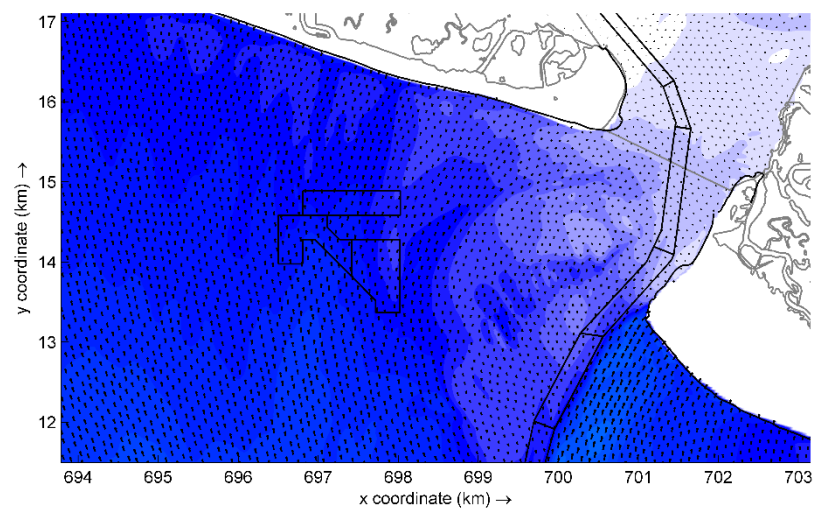
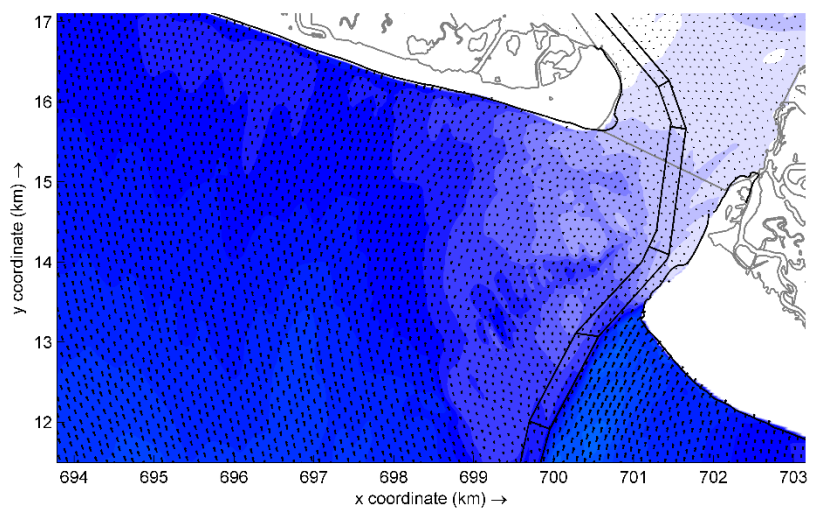
Offshore Wave Case03:

$H_s = 7.8$ ft, $T_p = 10.1$ s, Dir = 97.3 degN

Percent Occurrence = 0.635%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



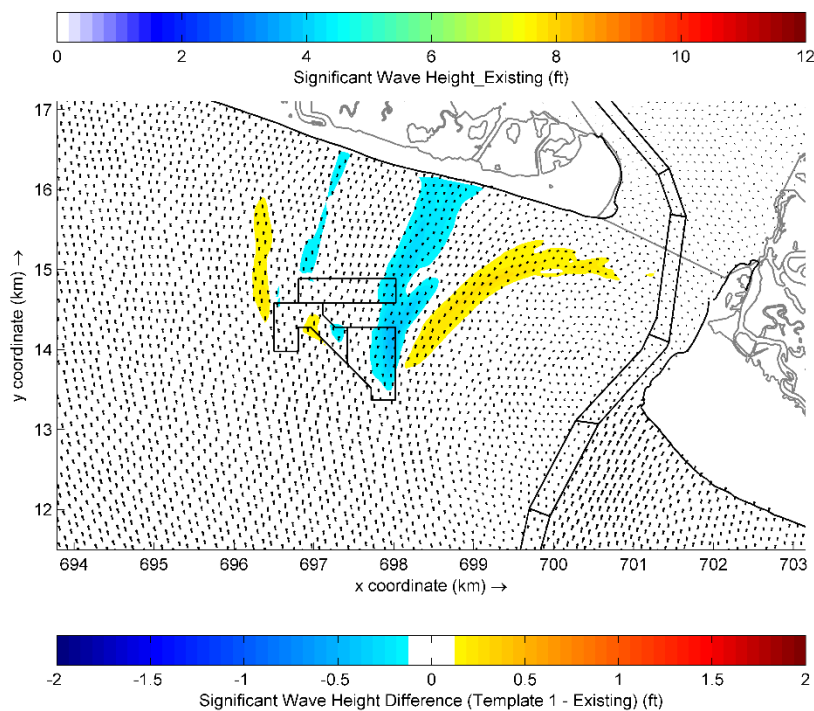
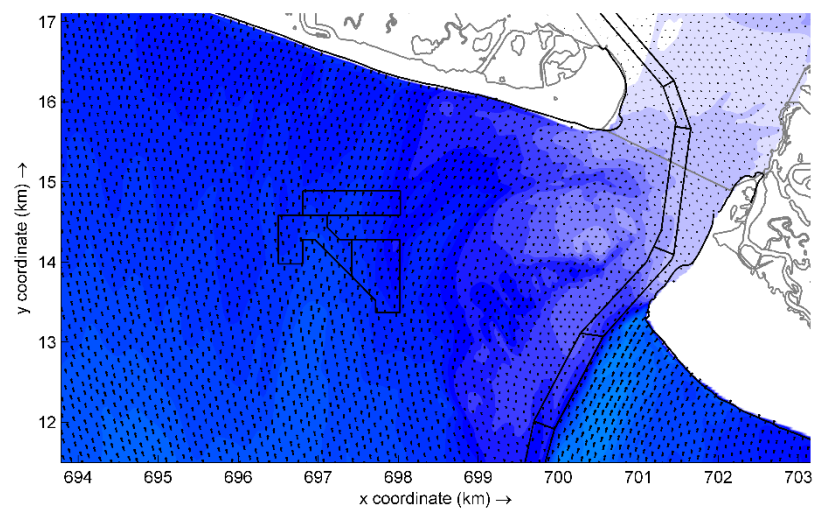
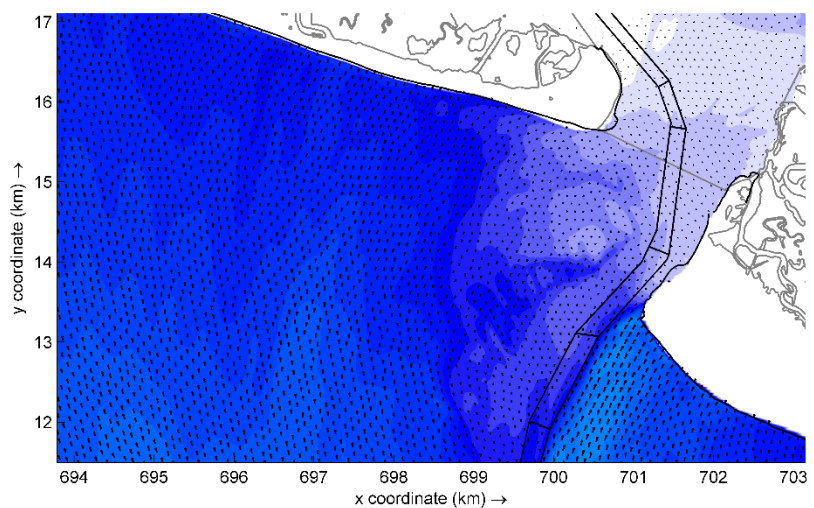
Offshore Wave Case04:

$H_s = 11.3$ ft, $T_p = 11.8$ s, Dir = 97.1 degN

Percent Occurrence = 0.164%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



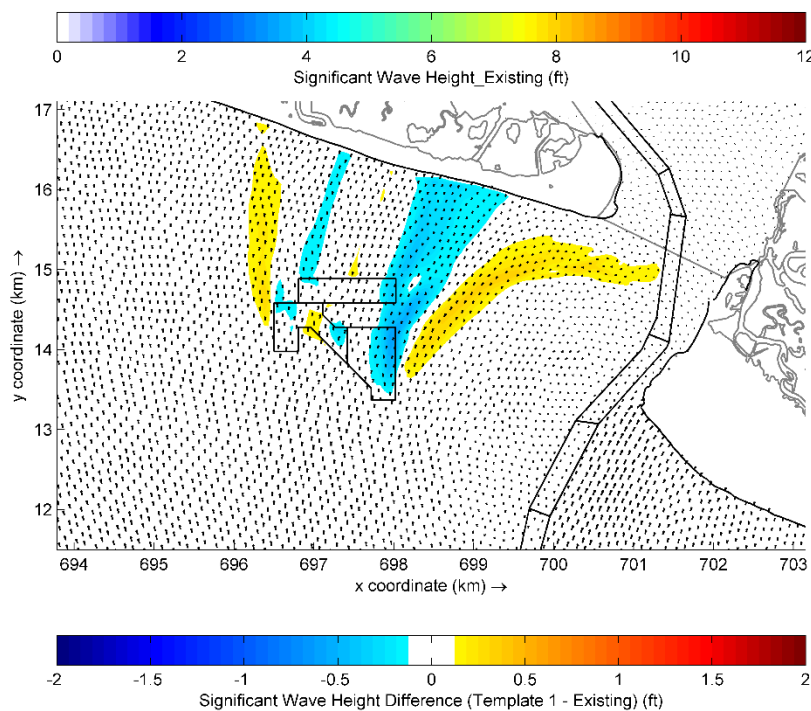
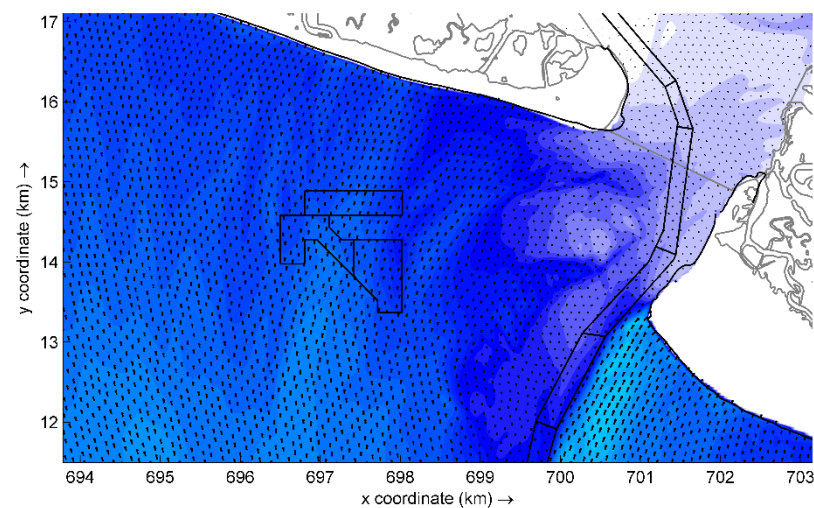
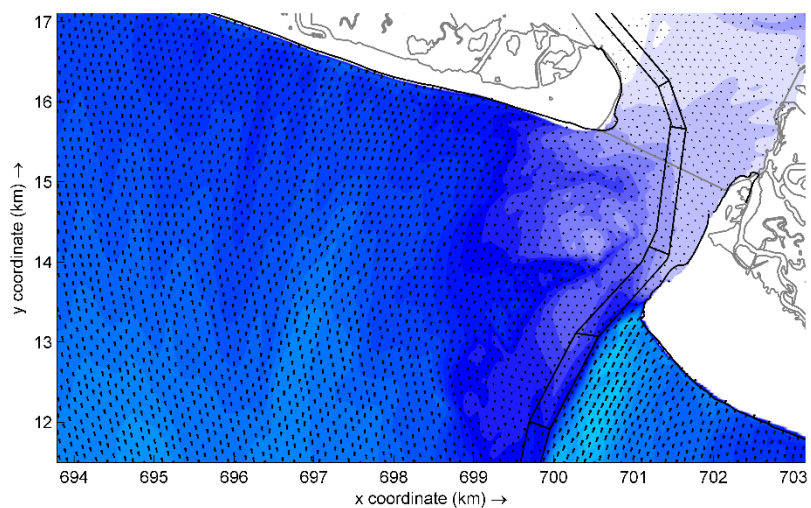
Offshore Wave Case05:

$H_s = 14.2$ ft, $T_p = 12.4$ s, Dir = 98.0 degN

Percent Occurrence = 0.054%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



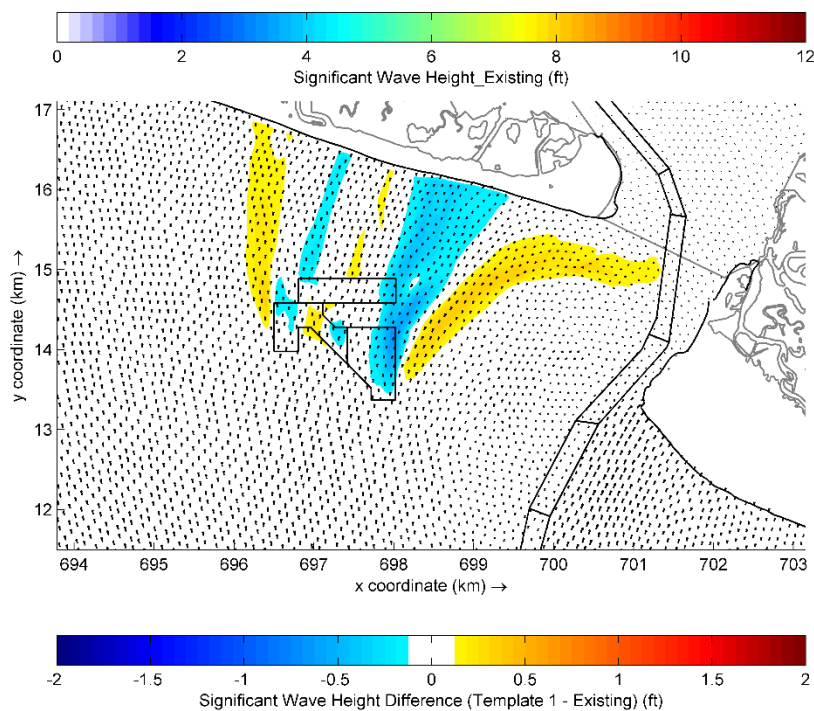
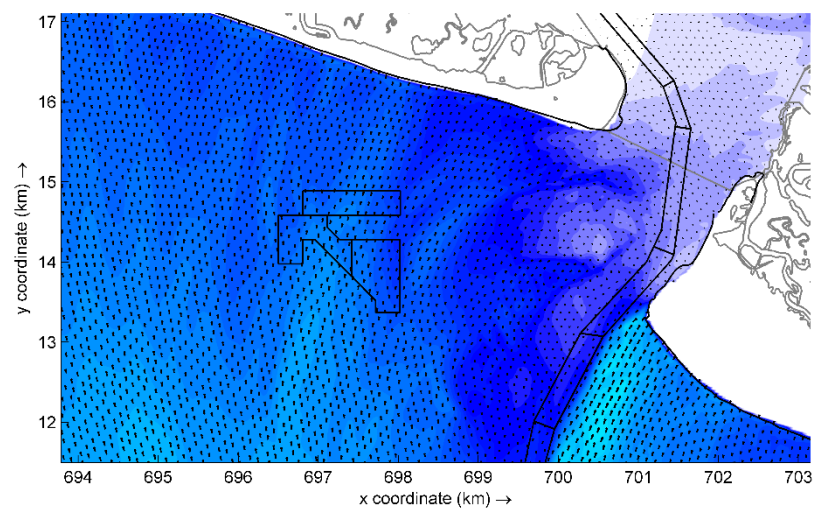
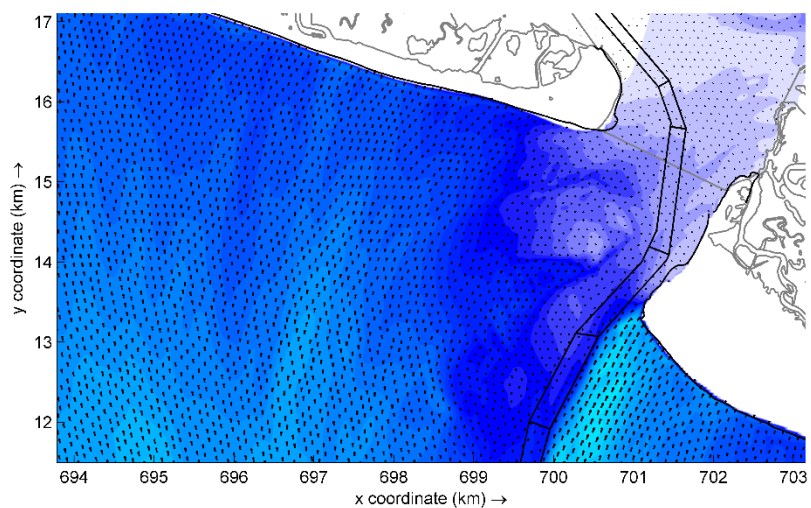
Offshore Wave Case06:

$H_s = 17.5$ ft, $T_p = 13.9$ s, Dir = 99.0 degN

Percent Occurrence = 0.016%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



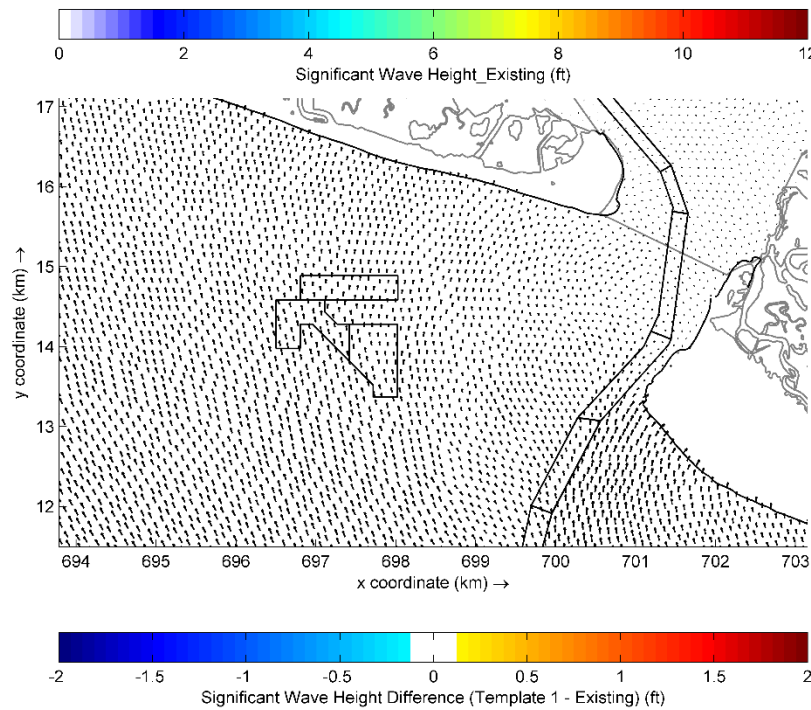
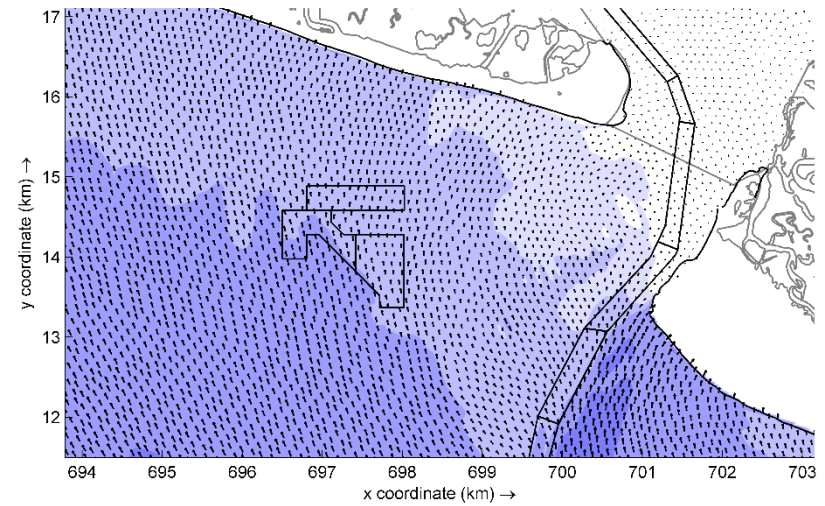
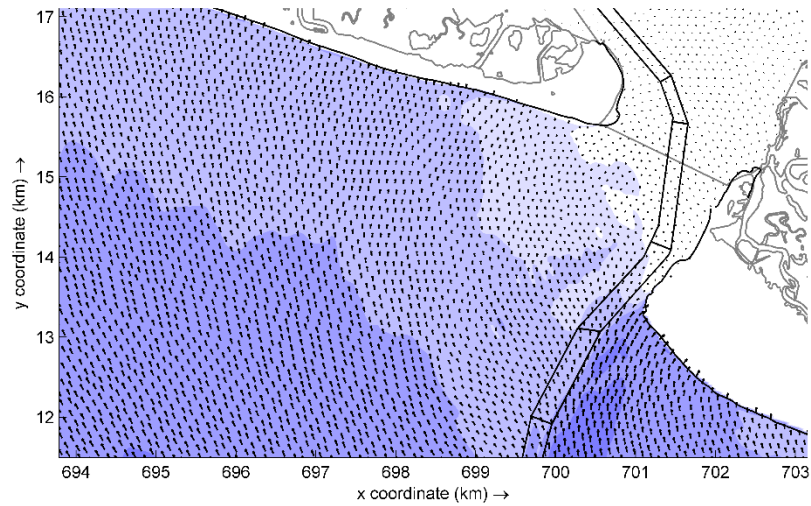
Offshore Wave Case07:

$H_s = 20.7$ ft, $T_p = 13.1$ s, Dir = 98.0 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



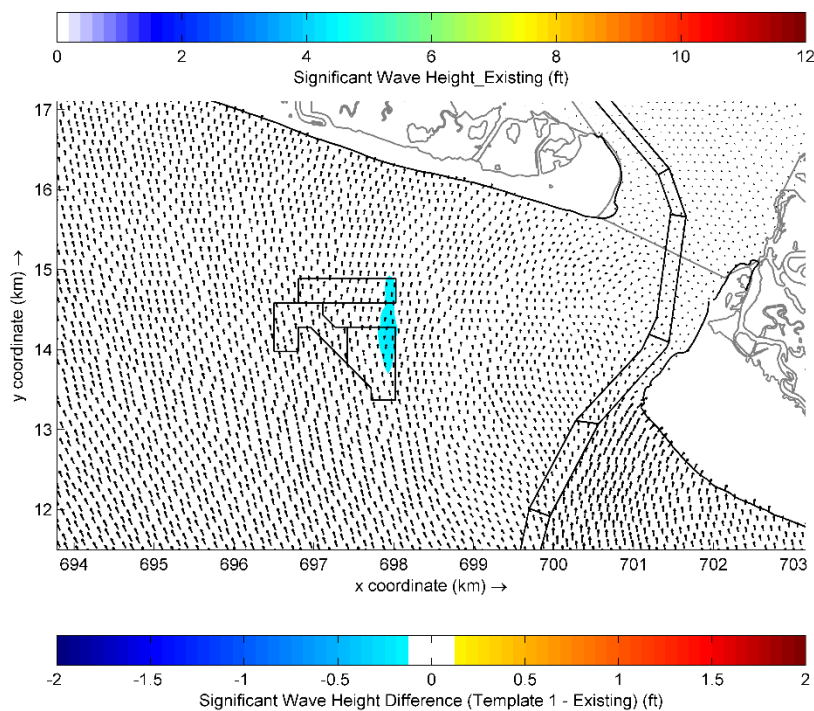
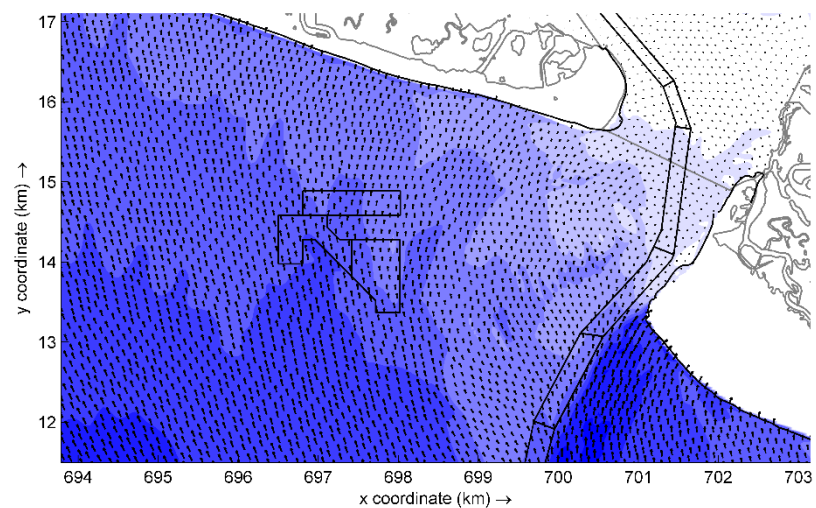
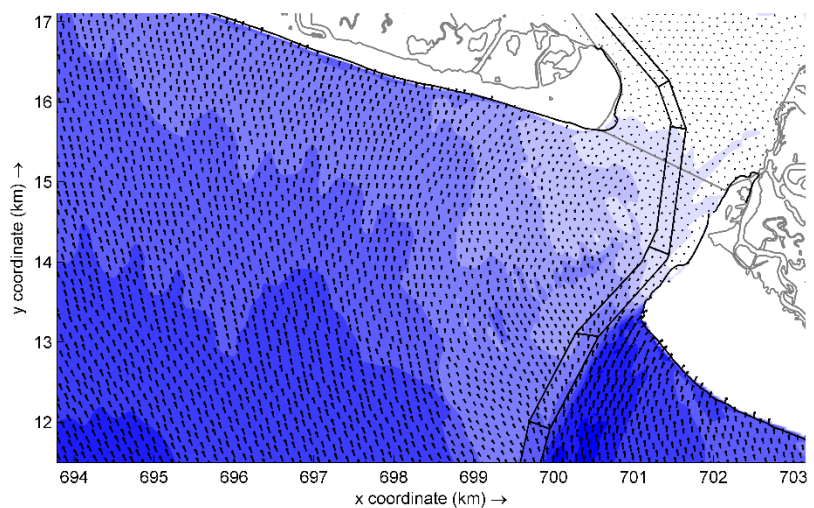
Offshore Wave Case08:

$H_s = 2.4$ ft, $T_p = 8.9$ s, Dir = 112.5 degN

Percent Occurrence = 6.297%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



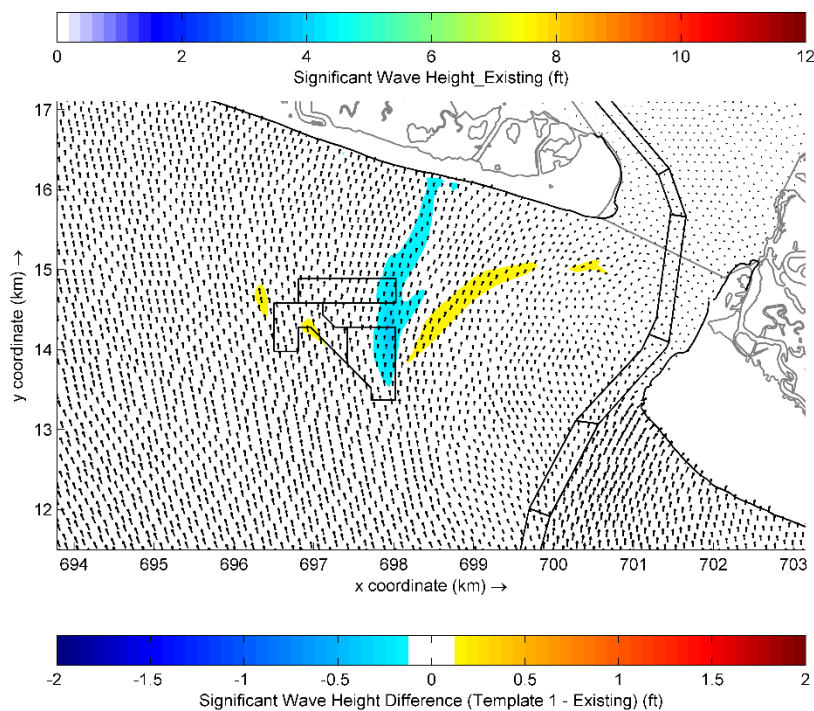
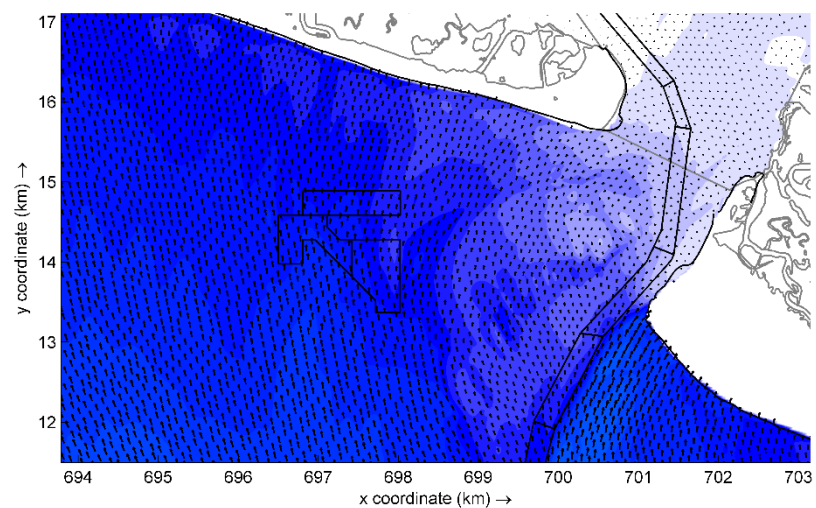
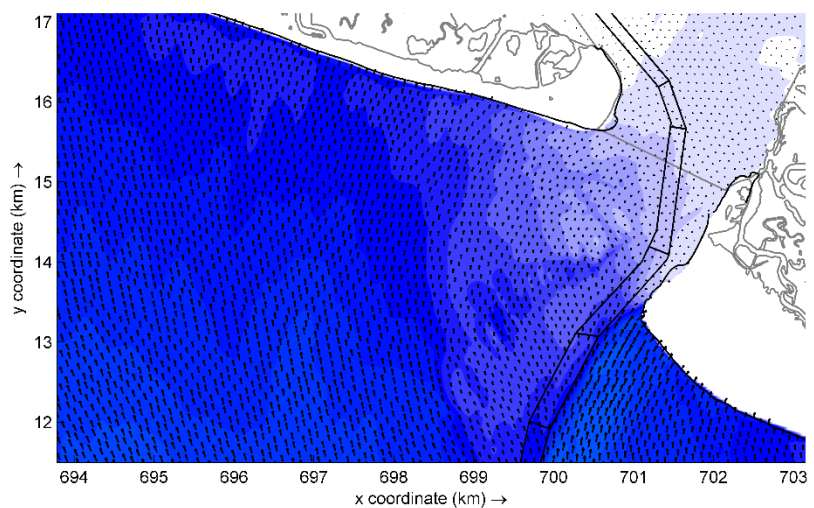
Offshore Wave Case09:

$H_s = 4.4$ ft, $T_p = 9.4$ s, Dir = 112.4 degN

Percent Occurrence = 5.030%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



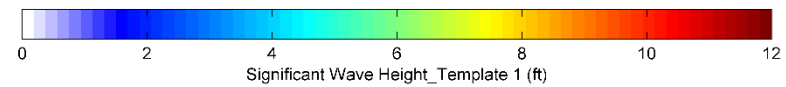
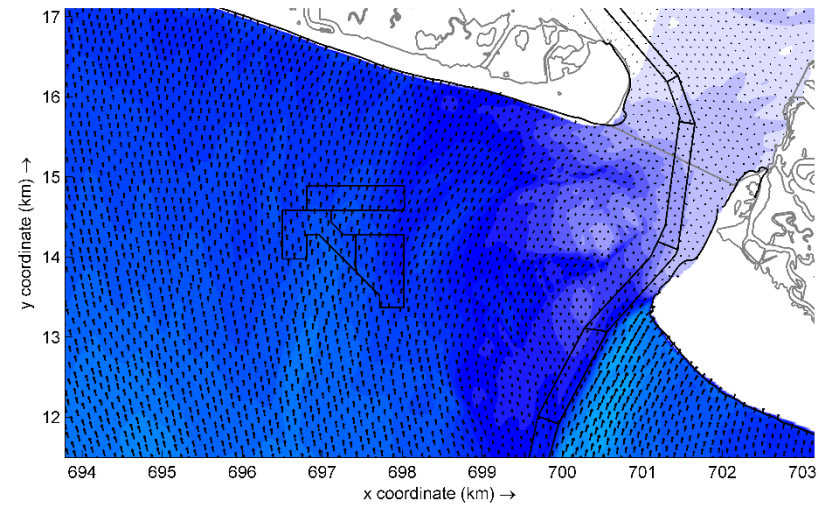
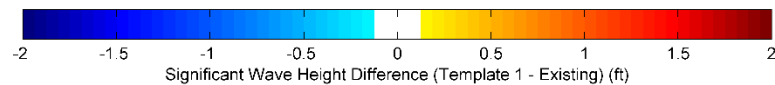
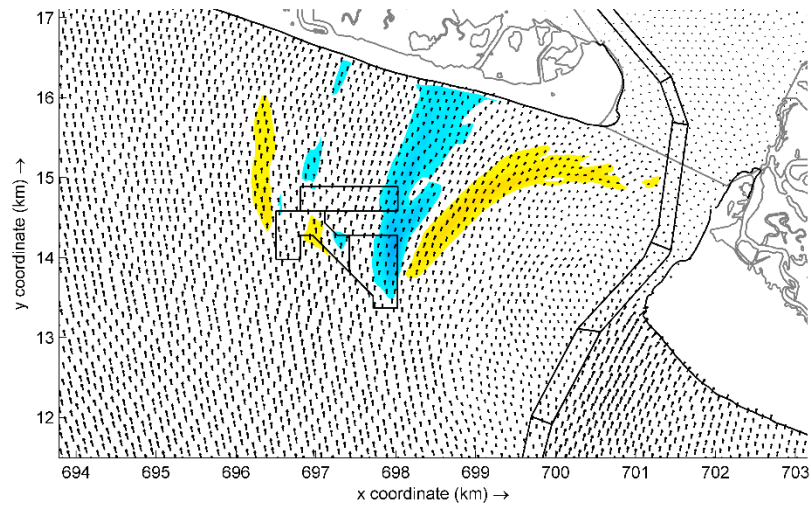
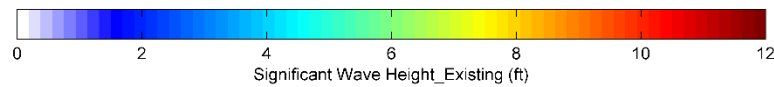
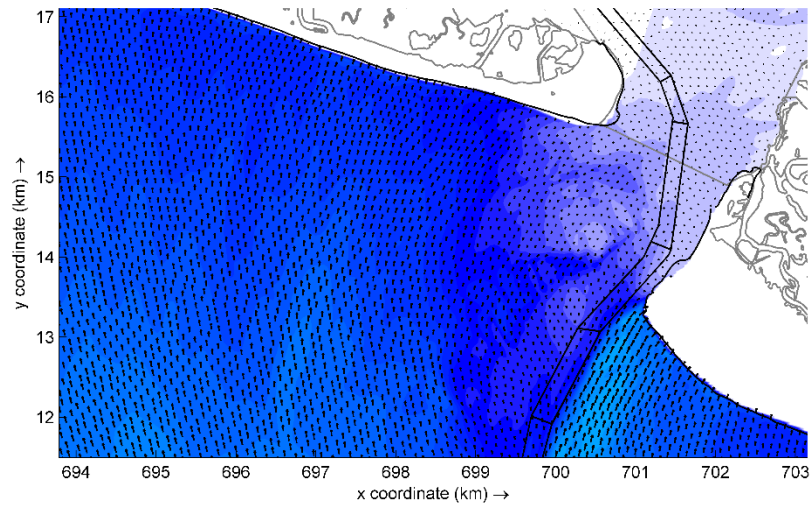
Offshore Wave Case10:

$H_s = 7.7$ ft, $T_p = 9.6$ s, Dir = 112.8 degN

Percent Occurrence = 0.714%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



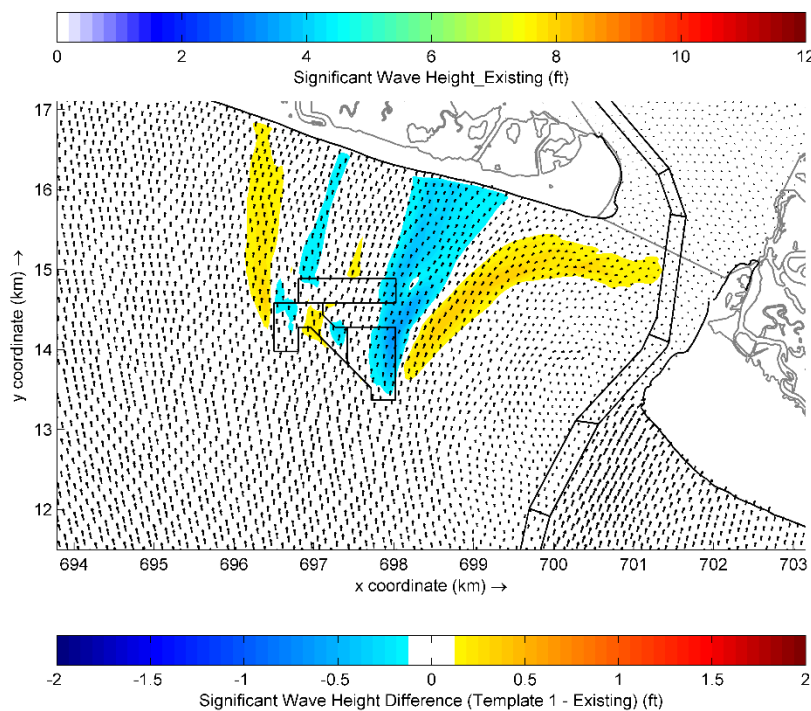
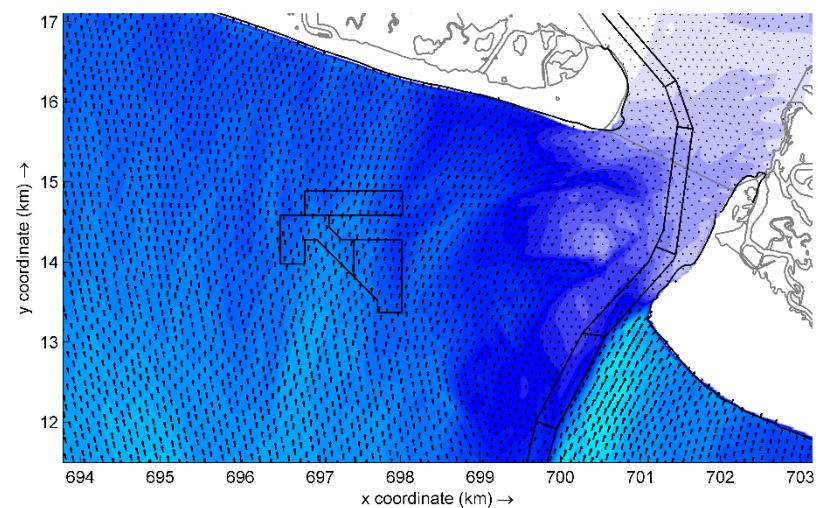
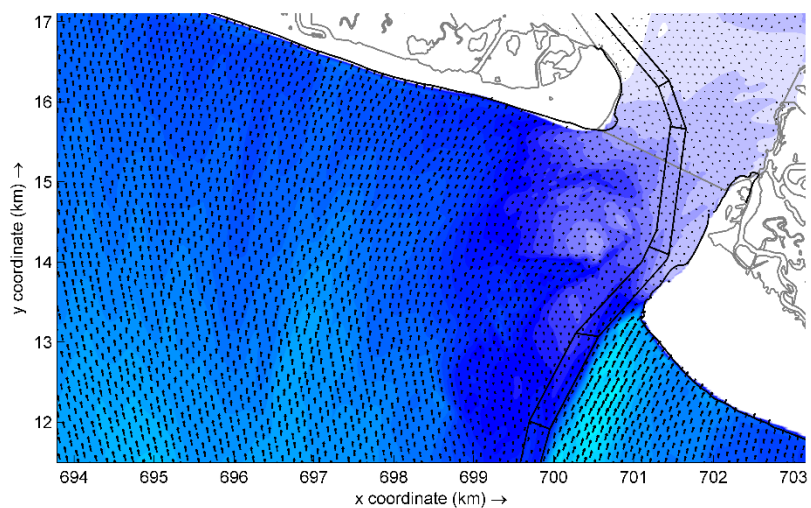
Offshore Wave Case11:

$H_s = 11.3$ ft, $T_p = 10.9$ s, Dir = 112.2 degN

Percent Occurrence = 0.129%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



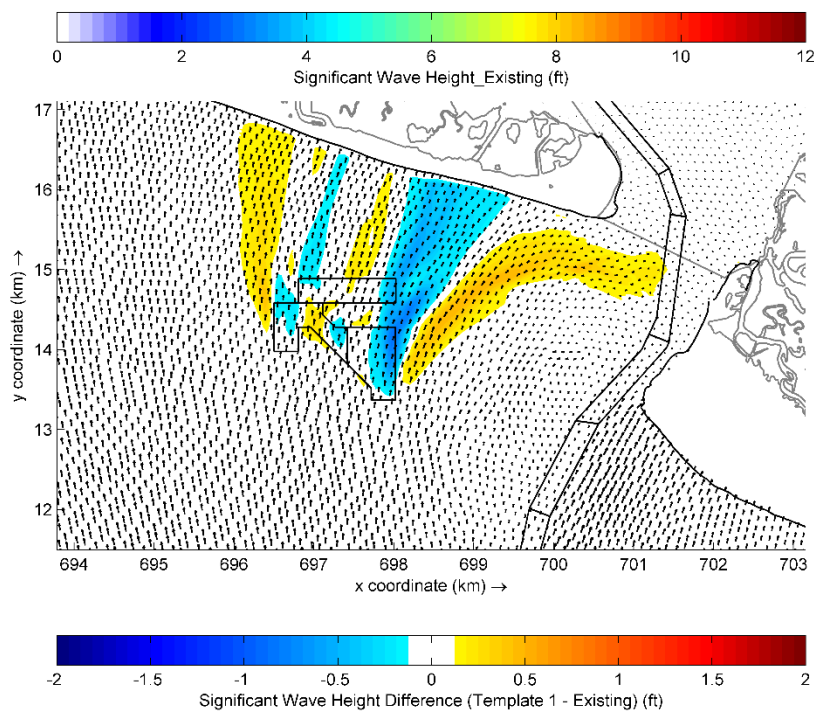
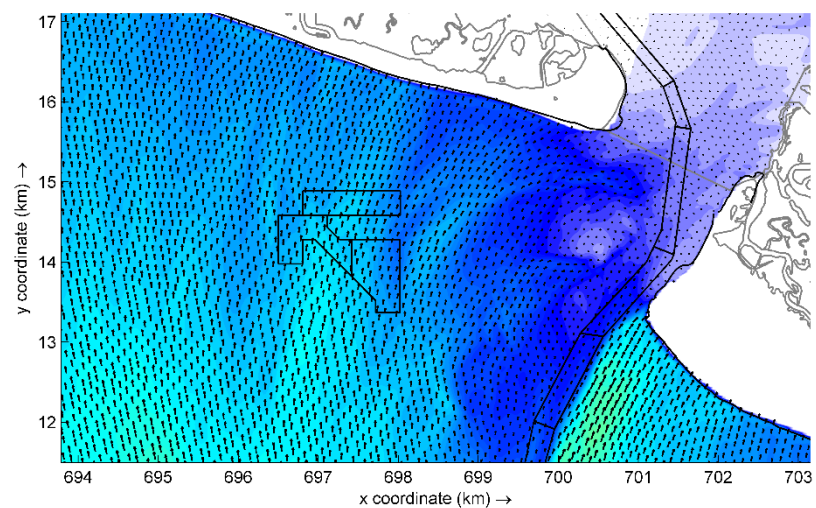
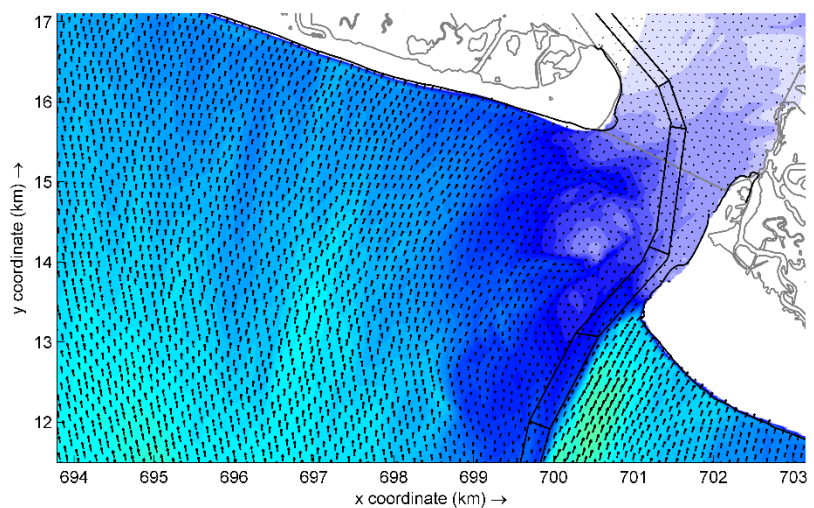
Offshore Wave Case12:

$H_s = 14.1$ ft, $T_p = 12.2$ s, Dir = 112.0 degN

Percent Occurrence = 0.038%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



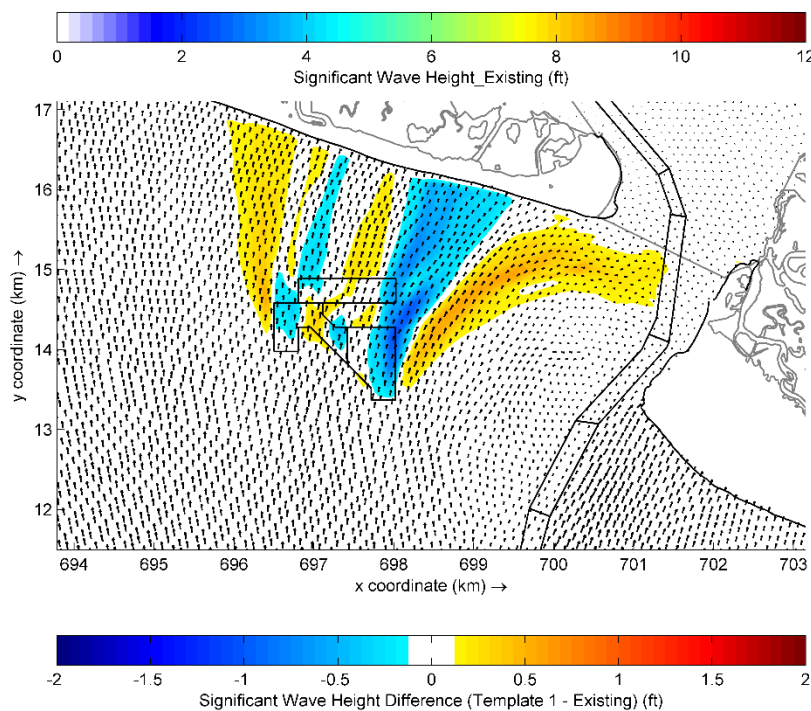
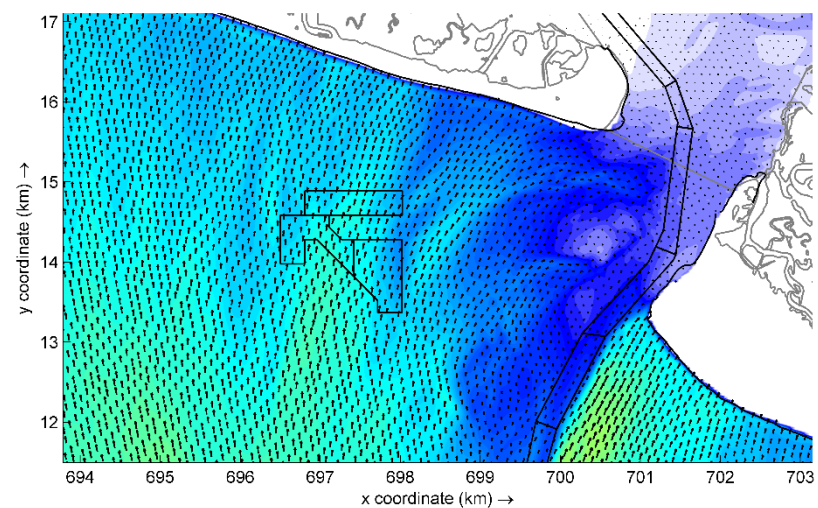
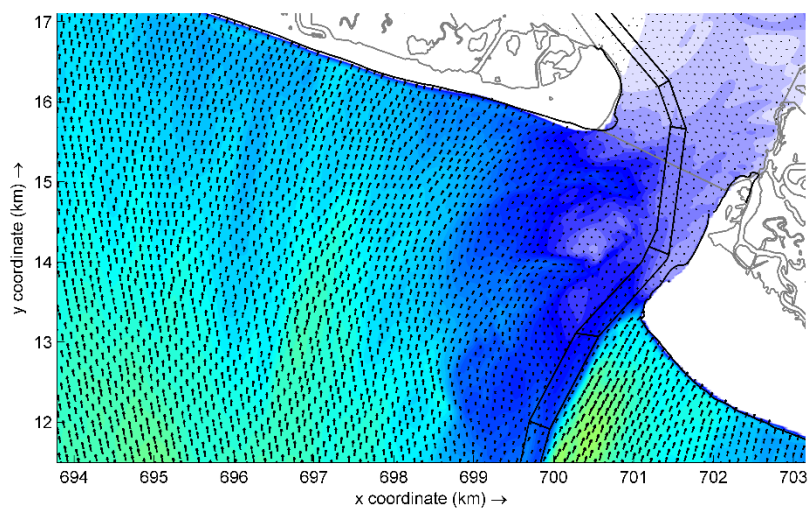
Offshore Wave Case13:

$H_s = 17.6$ ft, $T_p = 11.2$ s, Dir = 115.9 degN

Percent Occurrence = 0.005%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



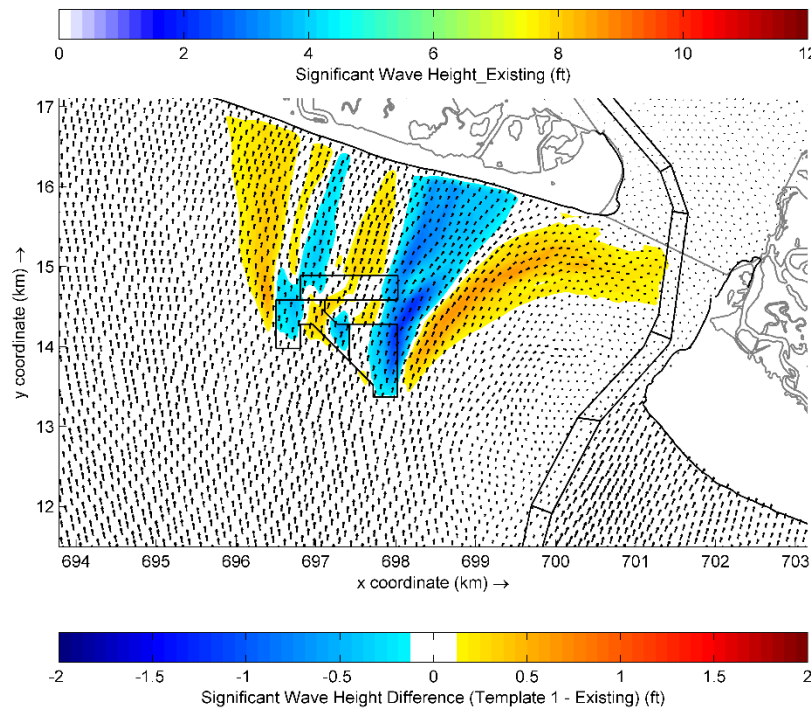
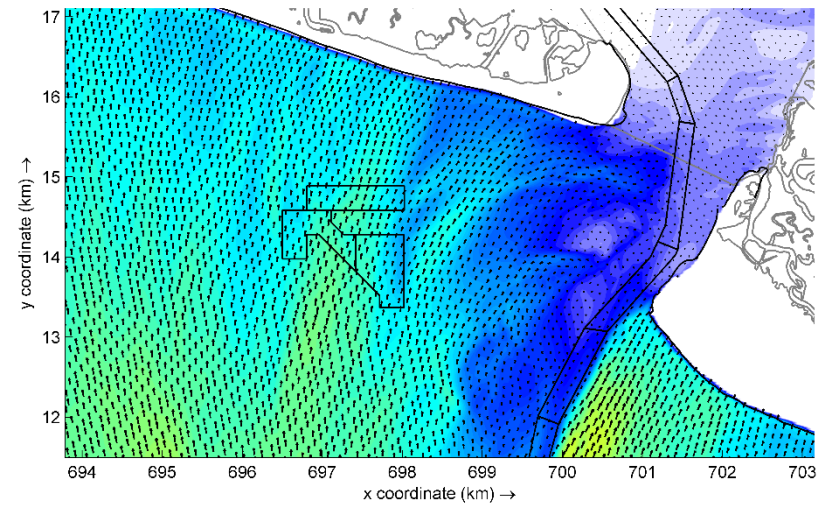
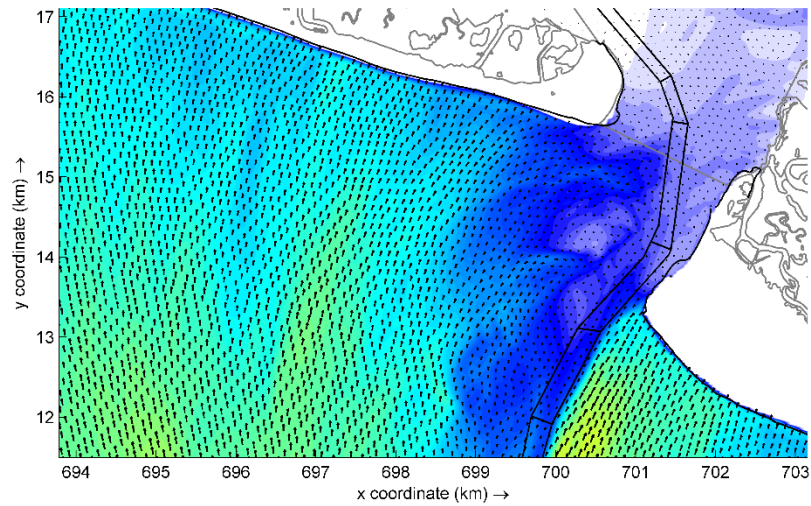
Offshore Wave Case14:

$H_s = 20.7$ ft, $T_p = 12.3$ s, Dir = 115.8 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



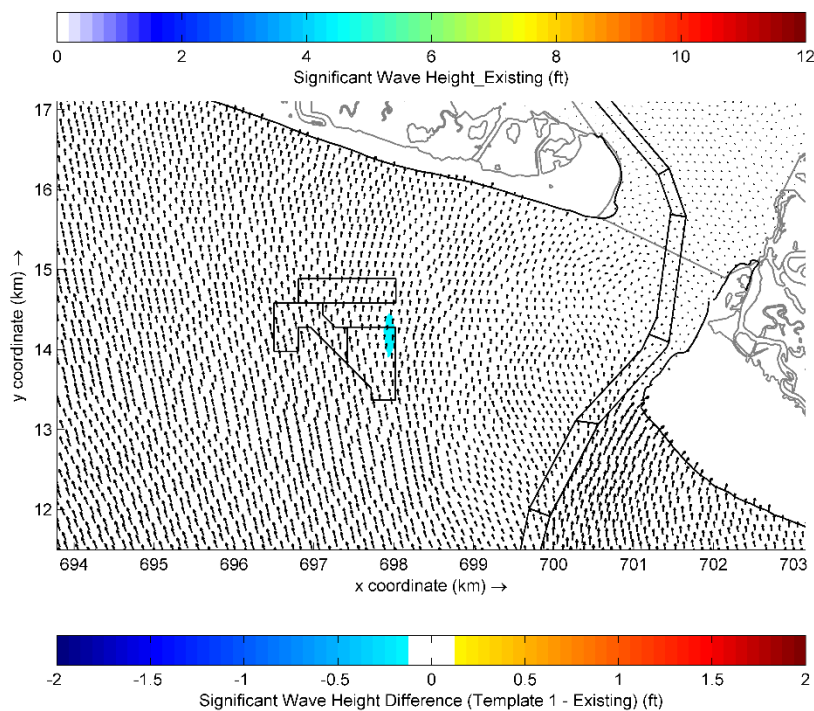
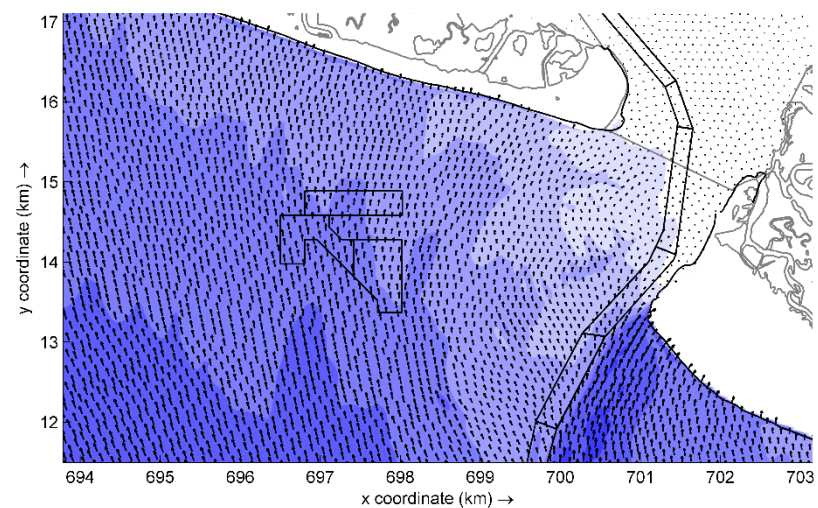
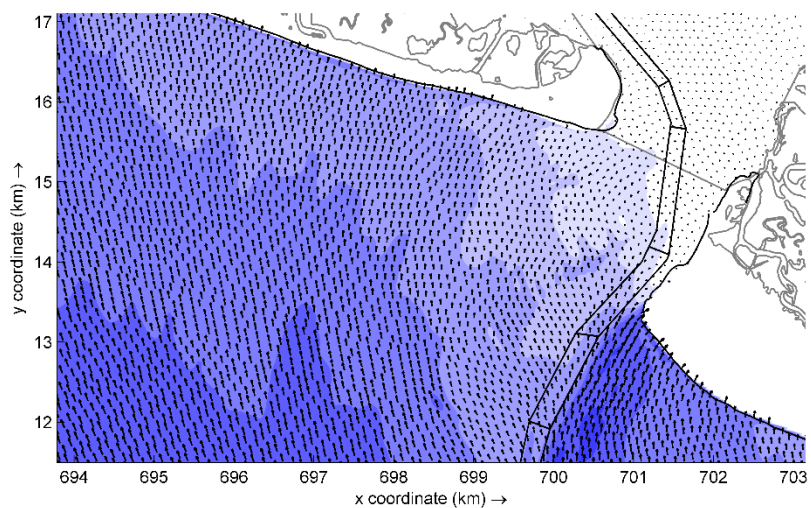
Offshore Wave Case15:

$H_s = 23.3$ ft, $T_p = 15.3$ s, Dir = 115.1 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



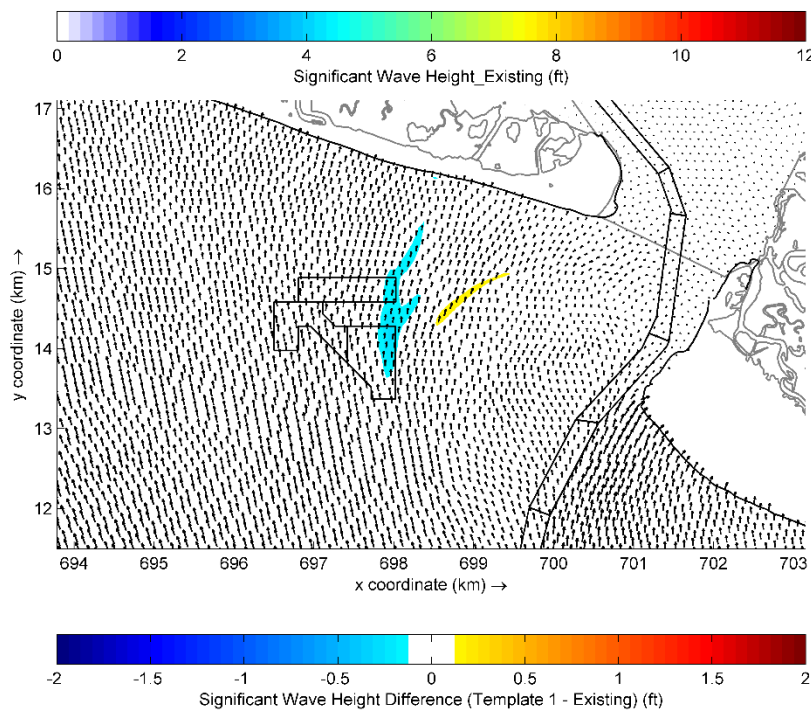
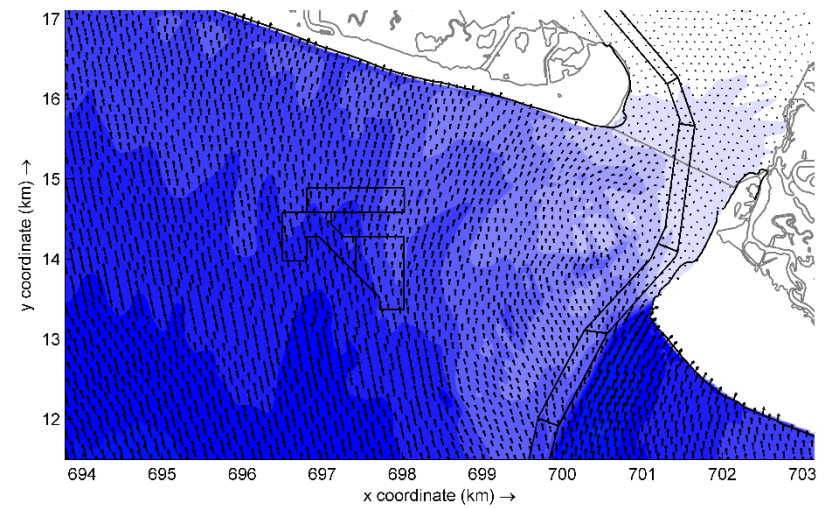
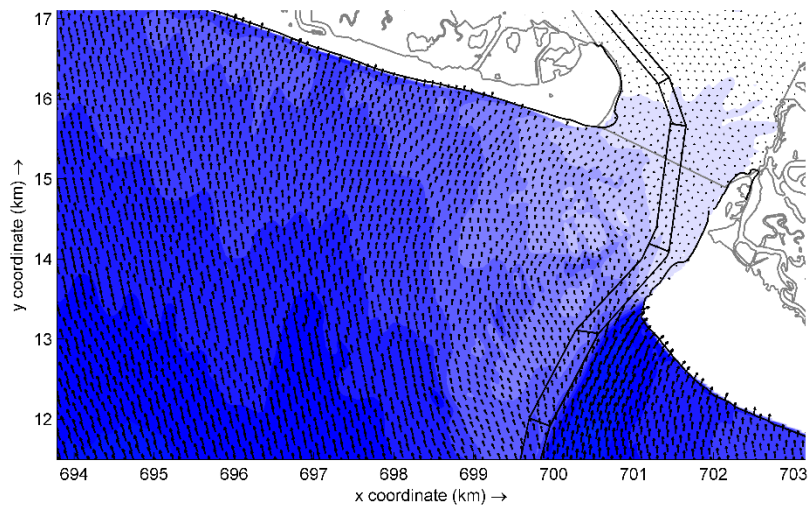
Offshore Wave Case16:

$H_s = 2.5$ ft, $T_p = 8.6$ s, Dir = 126.91 degN

Percent Occurrence = 5.573%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



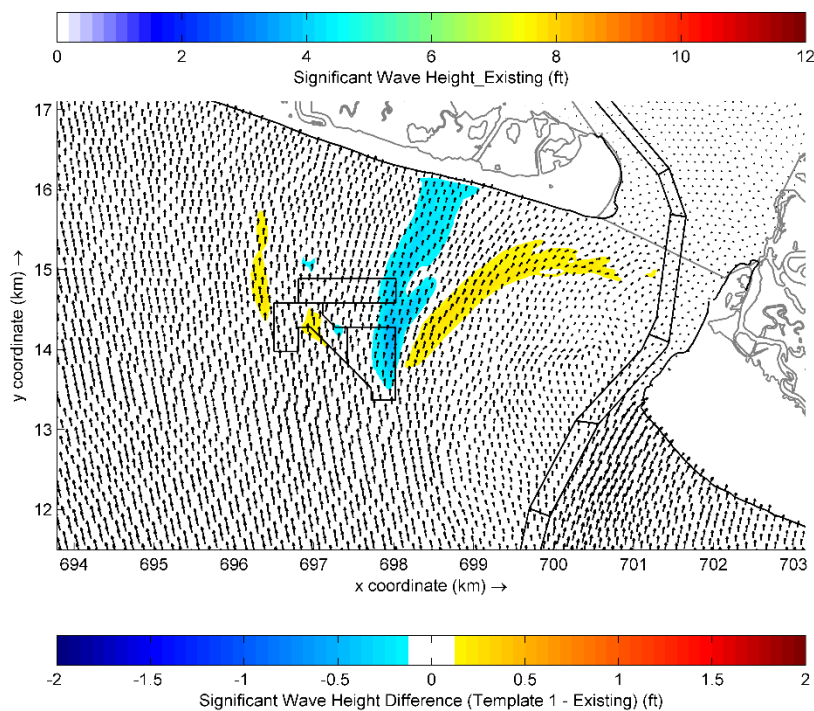
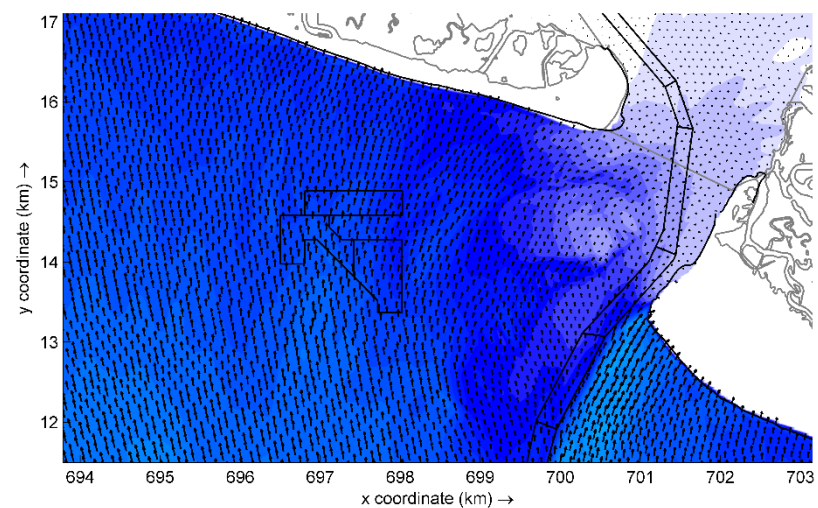
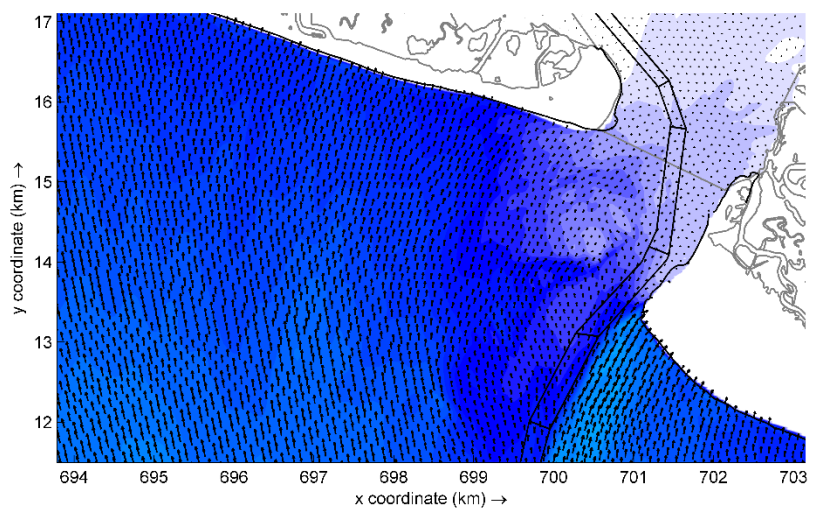
Offshore Wave Case17:

$H_s = 4.4$ ft, $T_p = 9.0$ s, Dir = 127.3 degN

Percent Occurrence = 4.728%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



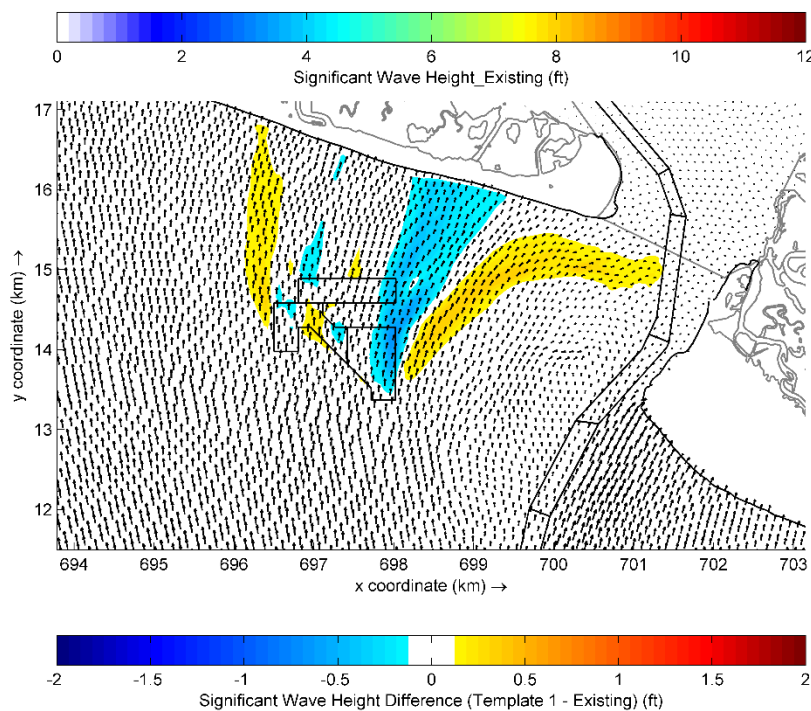
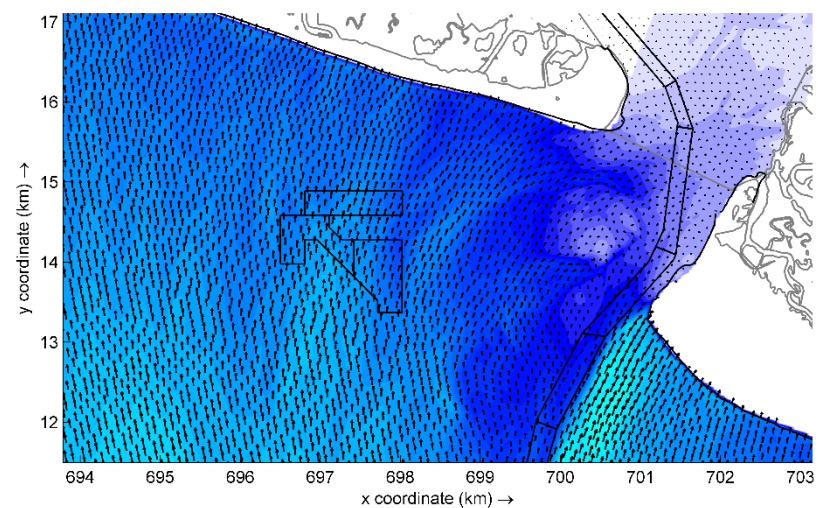
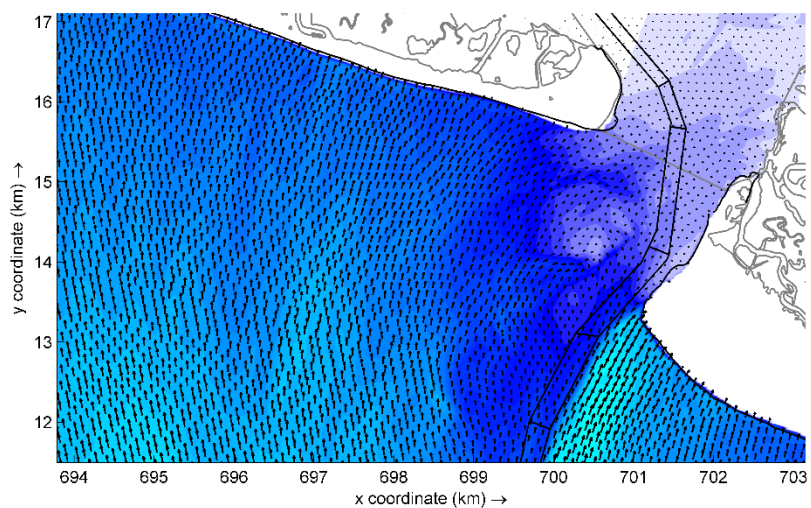
Offshore Wave Case18:

$H_s = 7.7$ ft, $T_p = 9.6$ s, Dir = 127.1 degN

Percent Occurrence = 0.789%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



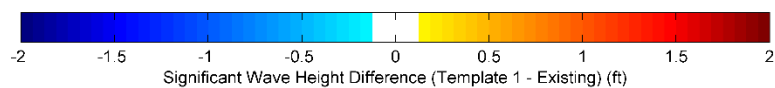
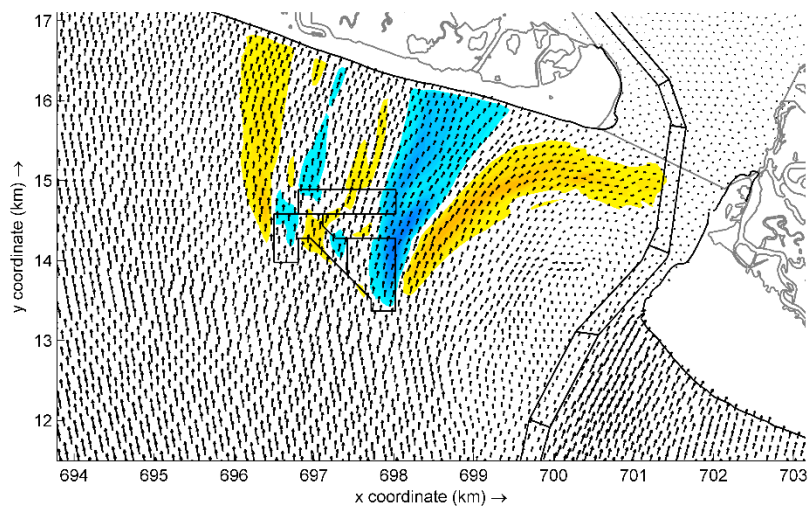
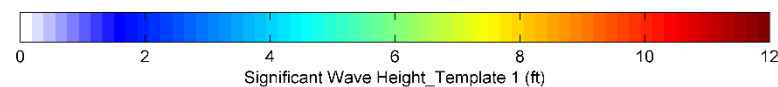
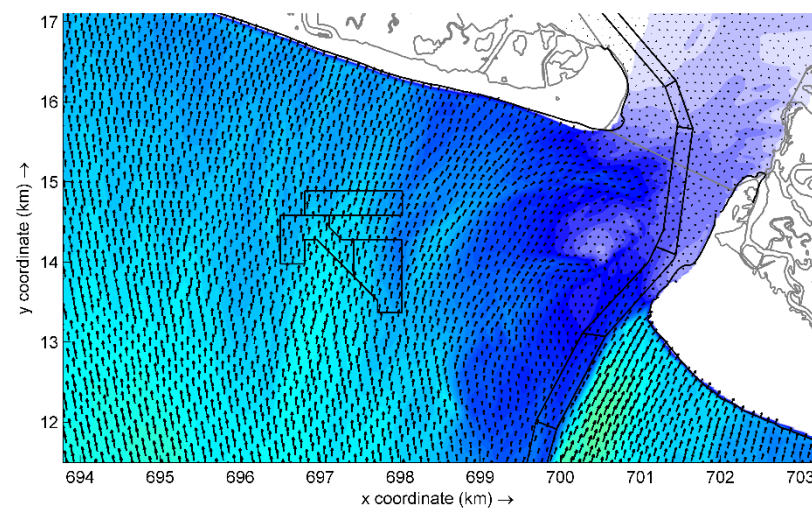
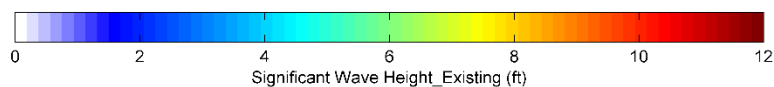
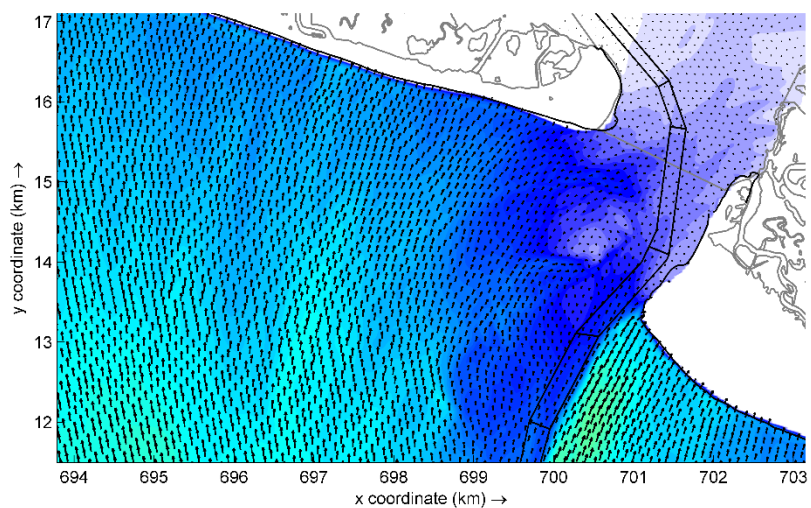
Offshore Wave Case19:

$H_s = 11.1$ ft, $T_p = 10.1$ s, Dir = 128.1 degN

Percent Occurrence = 0.135%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



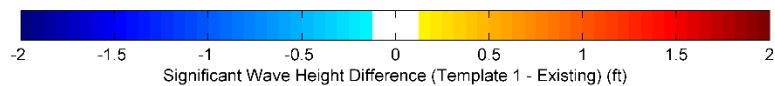
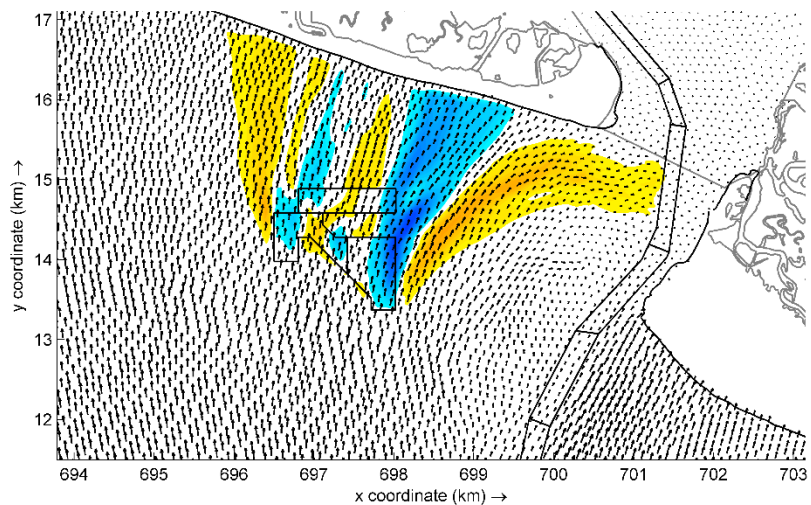
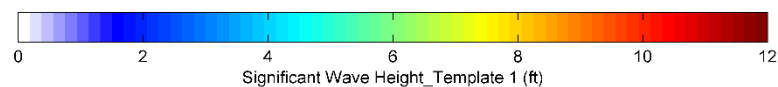
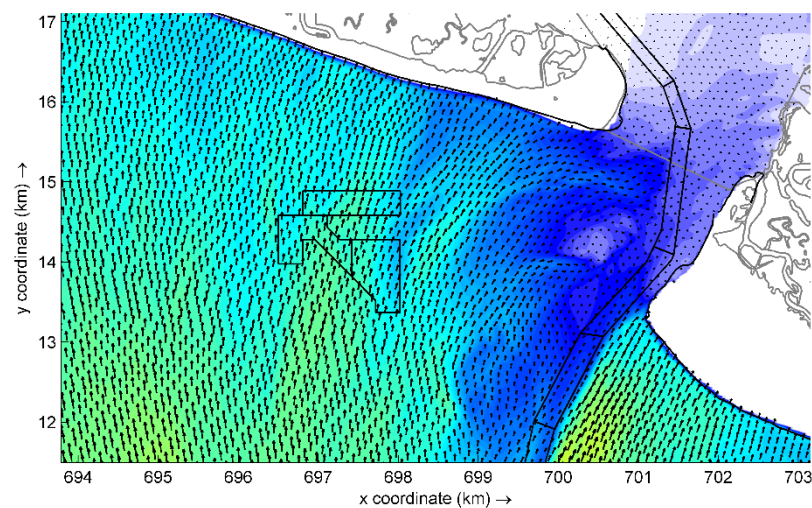
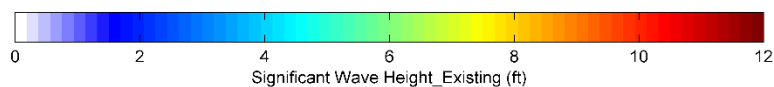
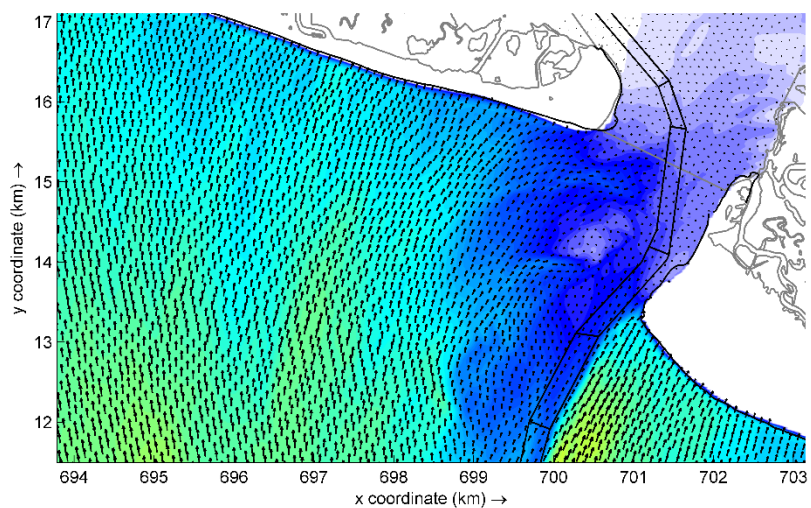
Offshore Wave Case20:

$H_s = 14.4$ ft, $T_p = 10.2$ s, Dir = 126.9 degN

Percent Occurrence = 0.035%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



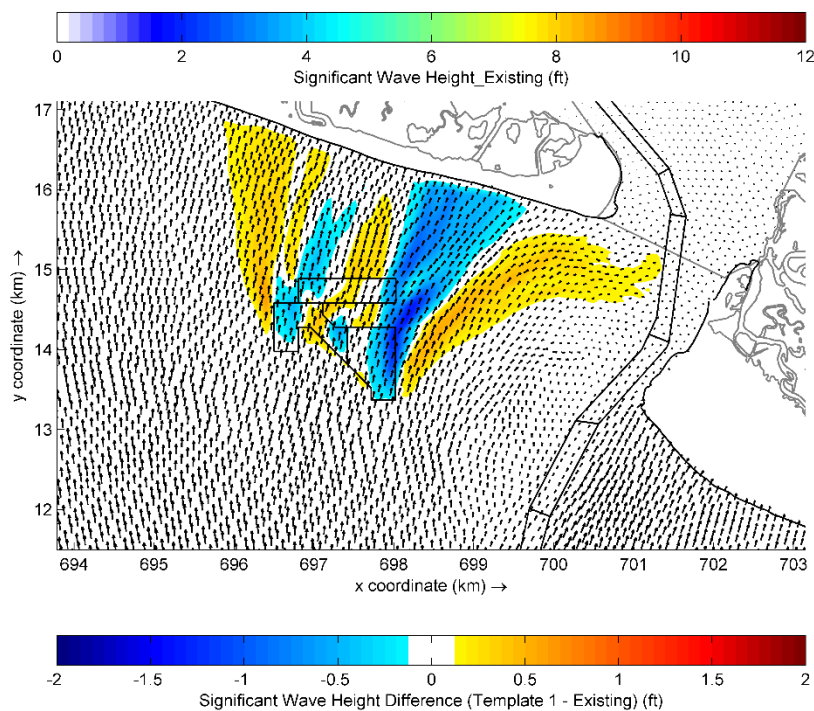
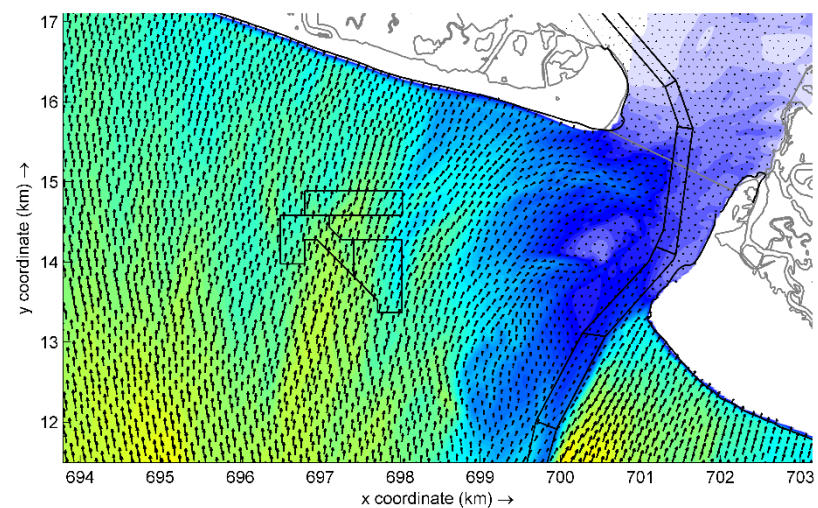
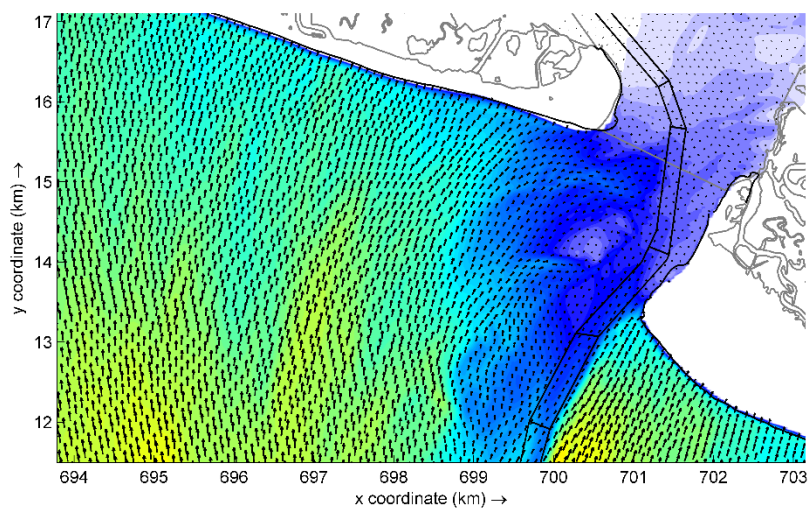
Offshore Wave Case21:

$H_s = 18.0$ ft, $T_p = 11.3$ s, Dir = 128.7 degN

Percent Occurrence = 0.010%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



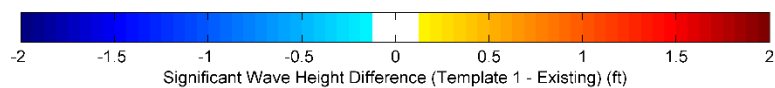
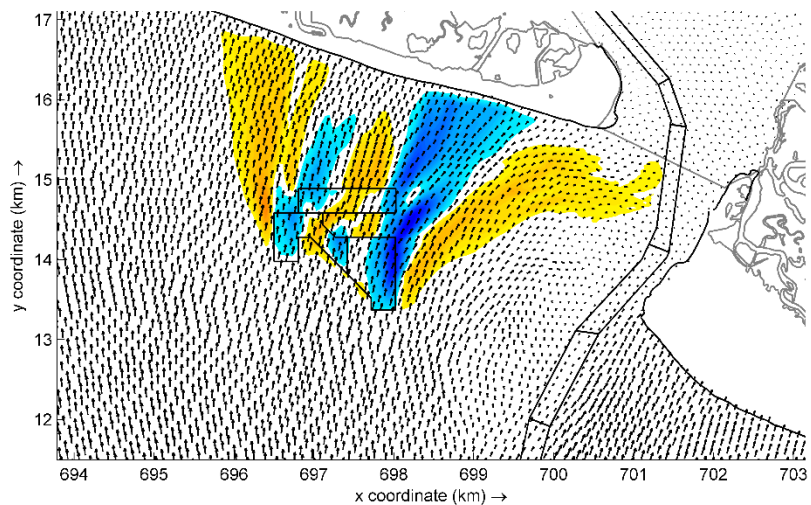
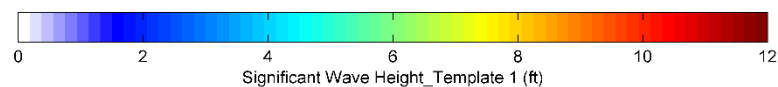
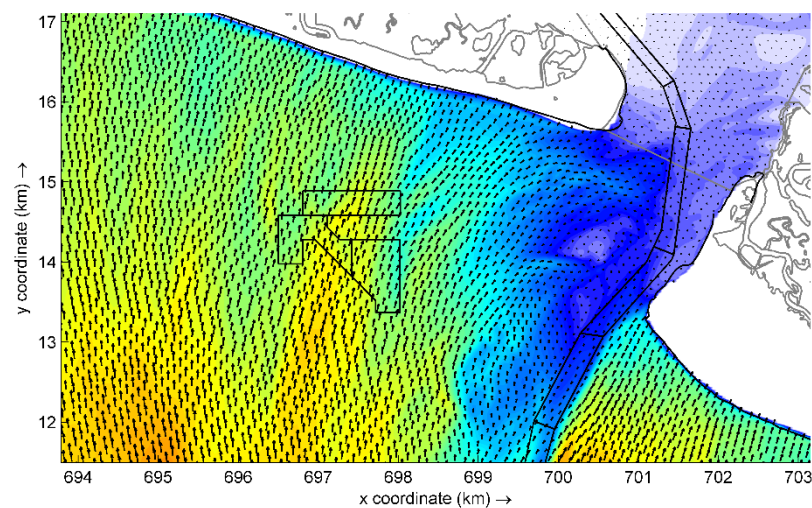
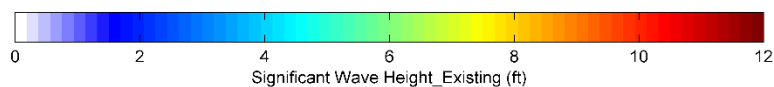
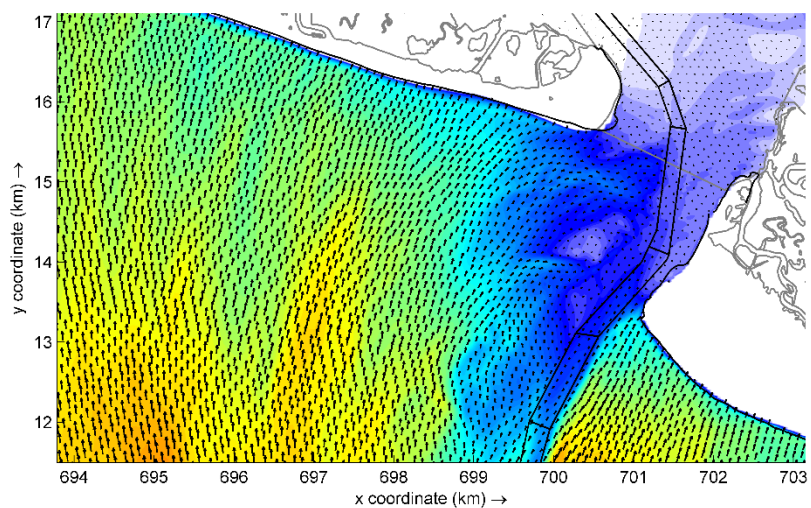
Offshore Wave Case22:

$H_s = 20.2$ ft, $T_p = 12.2$ s, Dir = 130.1 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



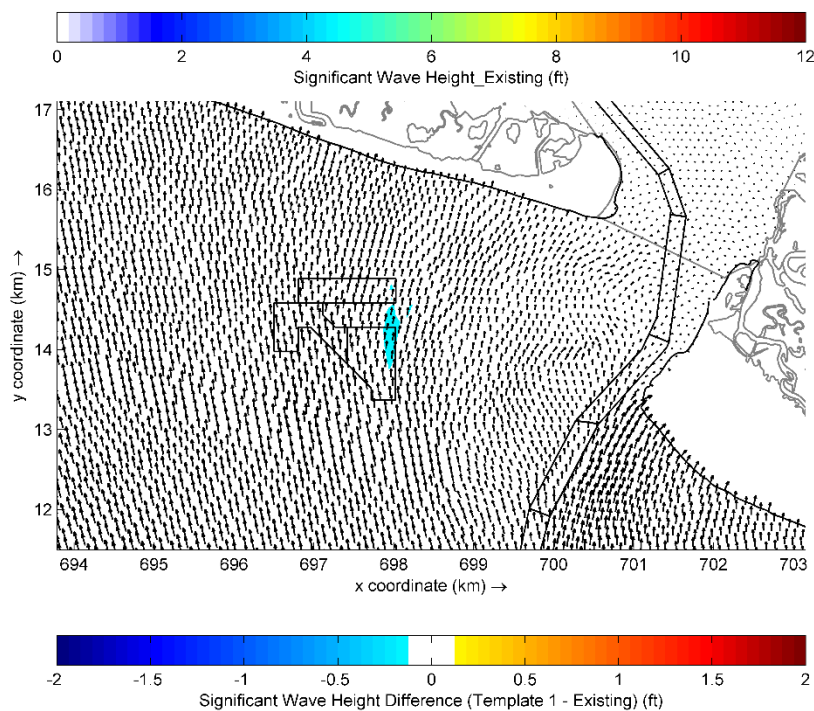
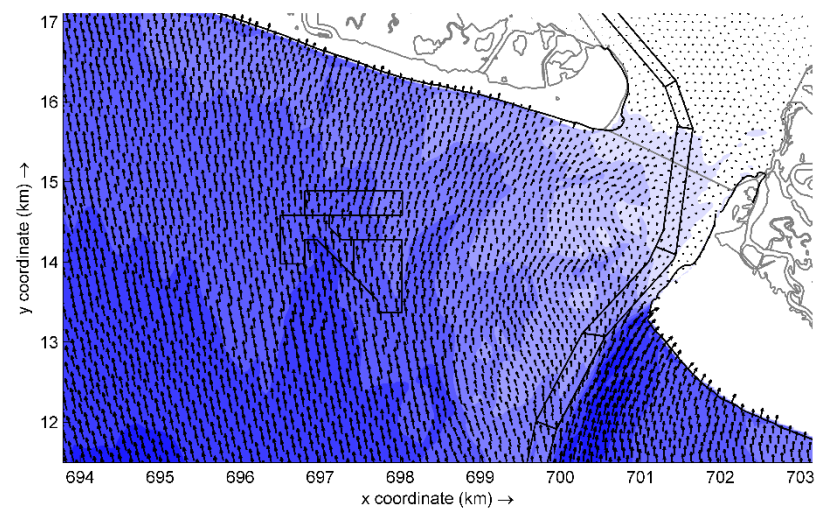
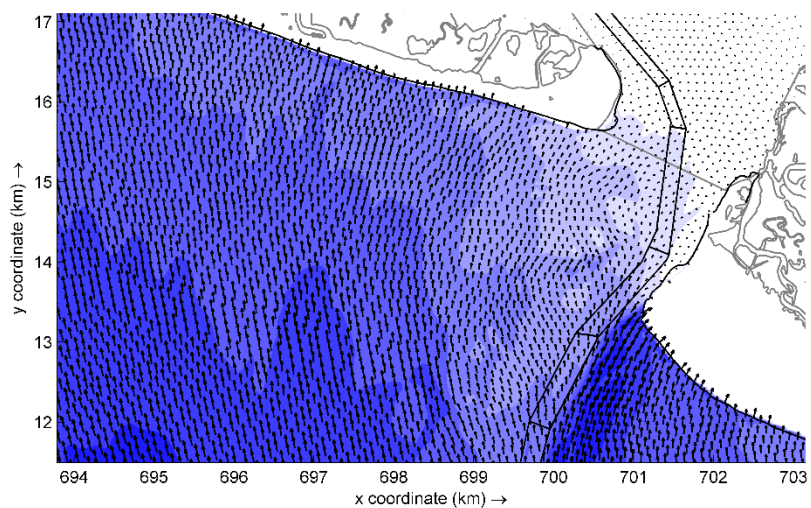
Offshore Wave Case23:

$H_s = 26.8$ ft, $T_p = 14.8$ s, Dir = 128.6 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



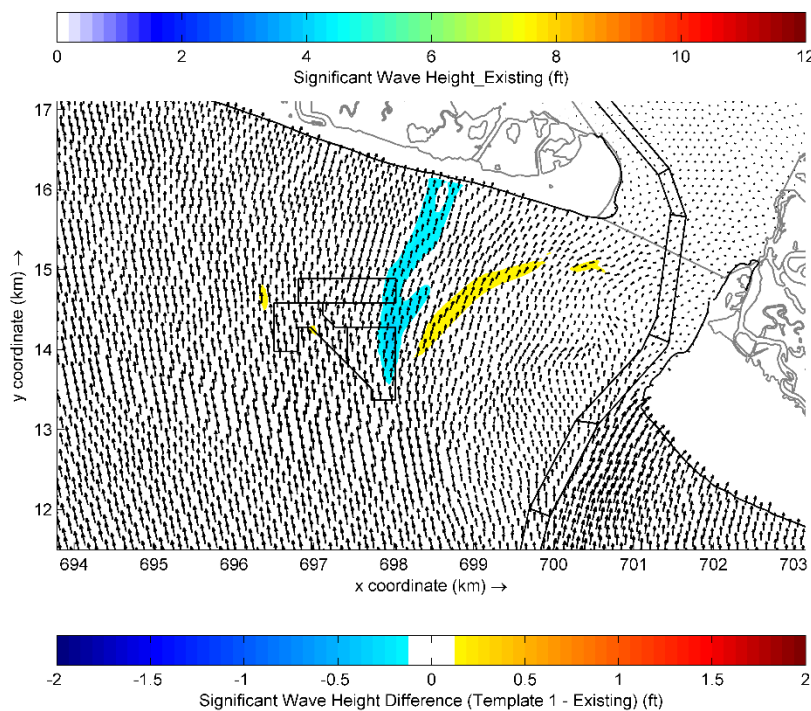
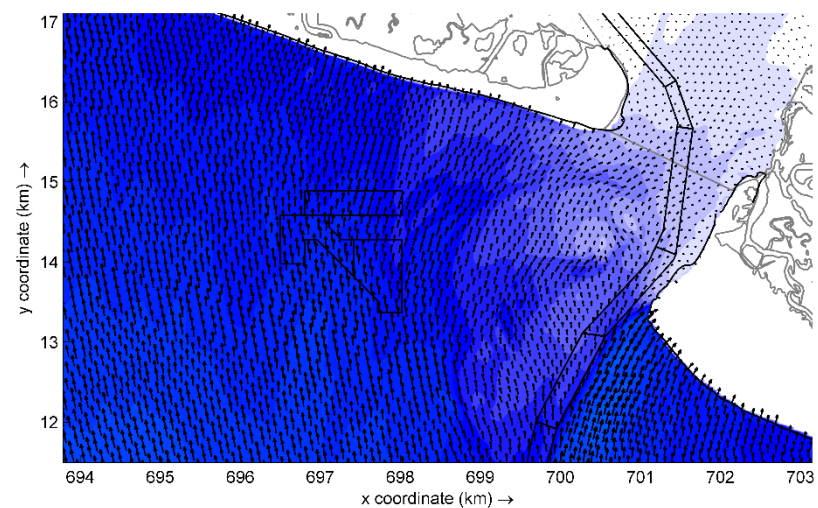
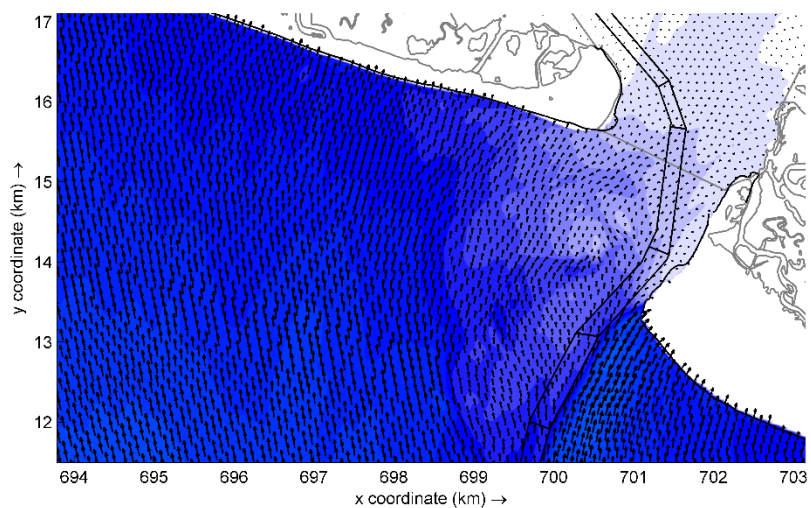
Offshore Wave Case24:

$H_s = 2.5$ ft, $T_p = 8.0$ s, Dir = 141.6 degN

Percent Occurrence = 3.391%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



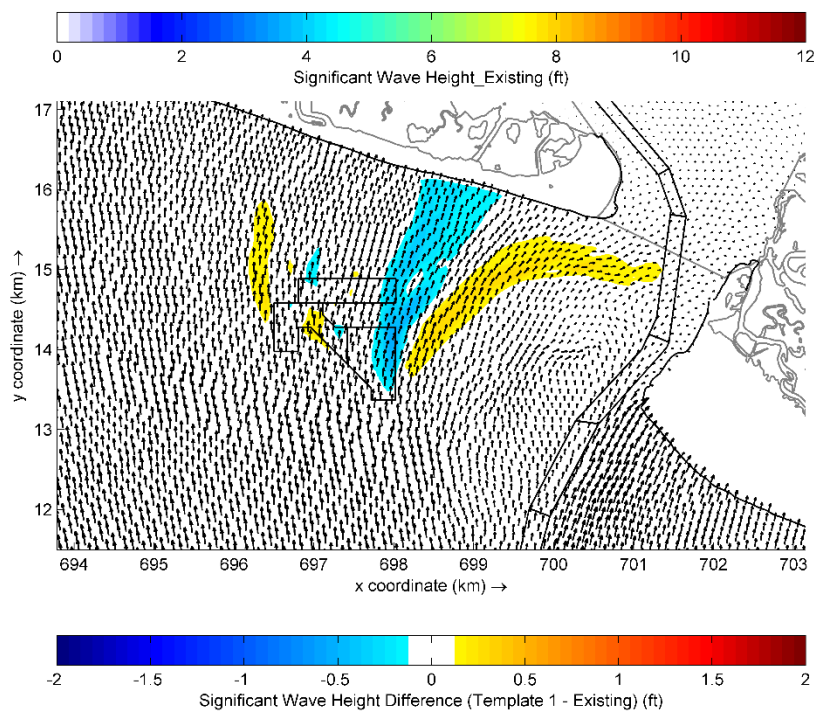
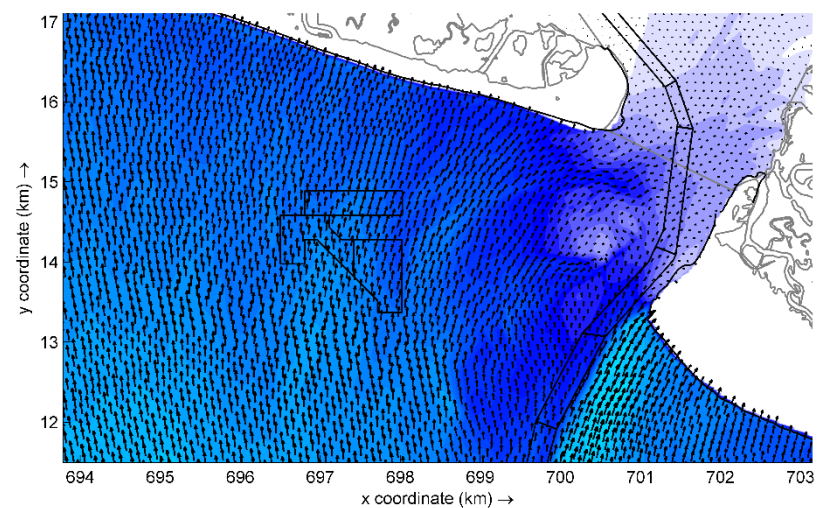
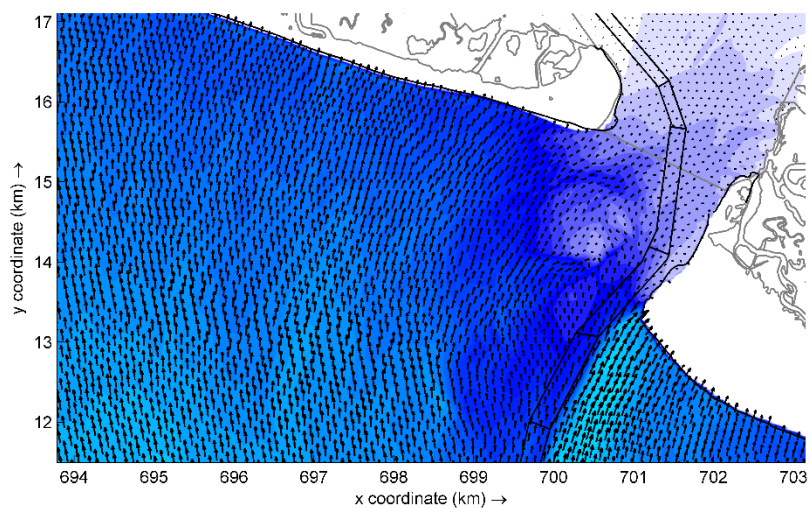
Offshore Wave Case25:

$H_s = 4.5$ ft, $T_p = 8.3$ s, Dir = 142.0 degN

Percent Occurrence = 3.696%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



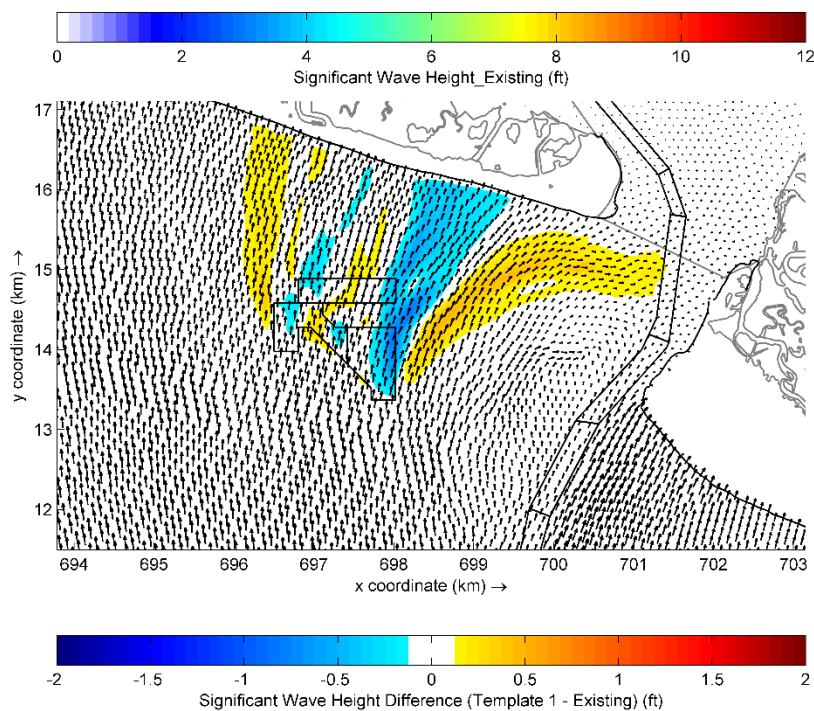
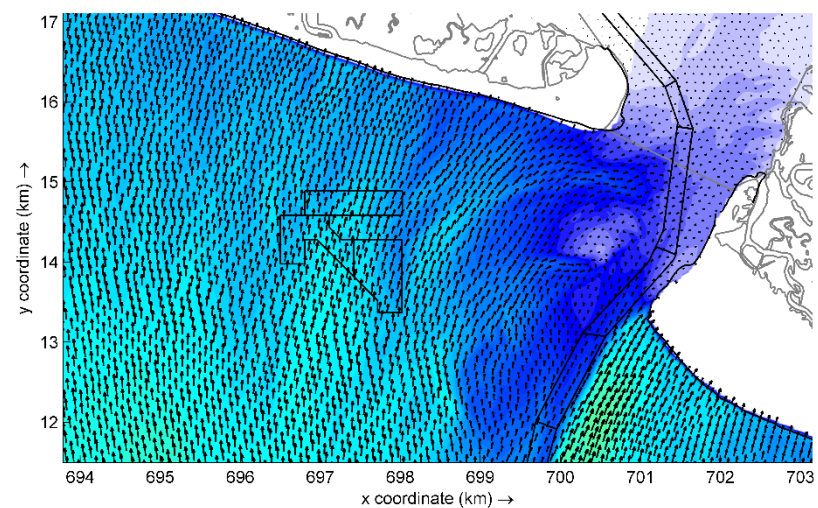
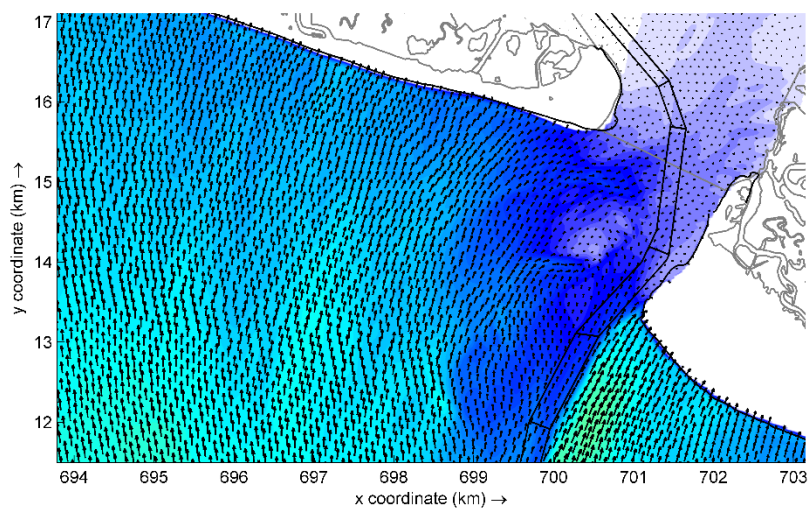
Offshore Wave Case26:

$H_s = 7.8$ ft, $T_p = 8.9$ s, Dir = 142.5 degN

Percent Occurrence = 0.646%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



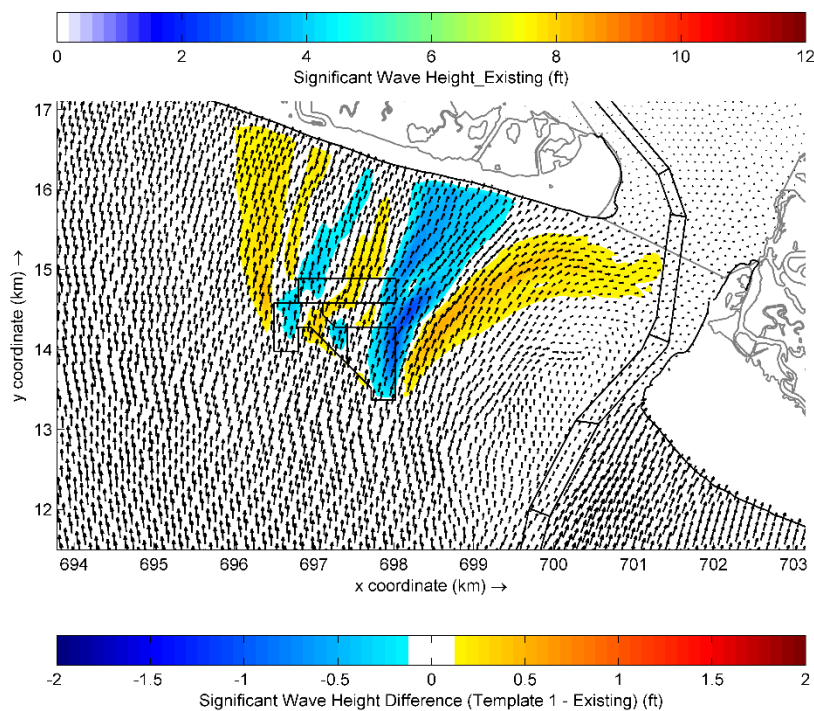
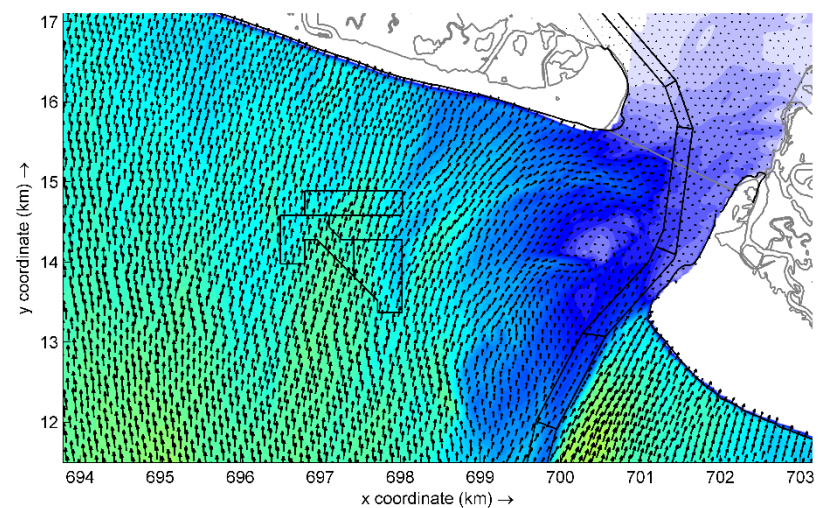
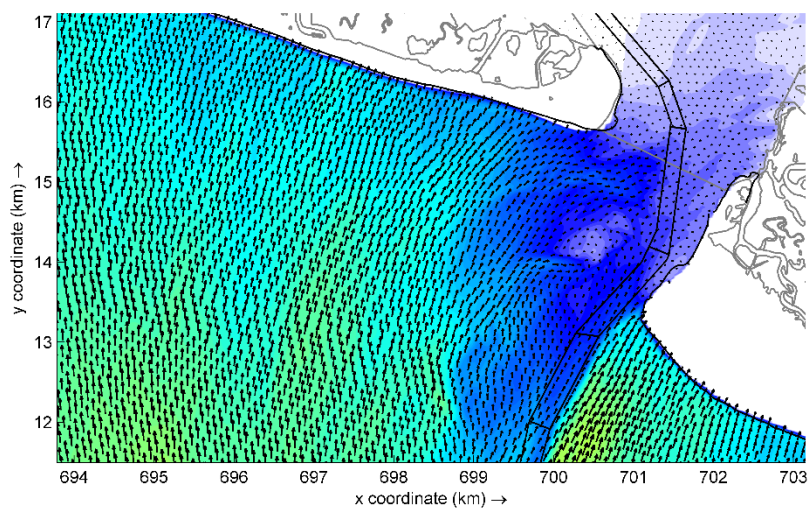
Offshore Wave Case27:

$H_s = 11.3$ ft, $T_p = 9.9$ s, Dir = 142.2 degN

Percent Occurrence = 0.193%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



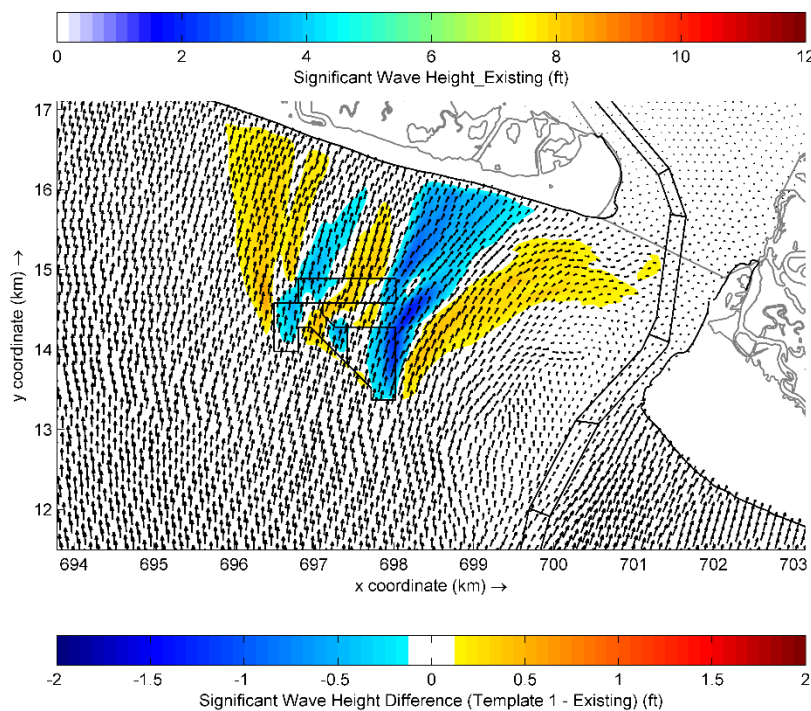
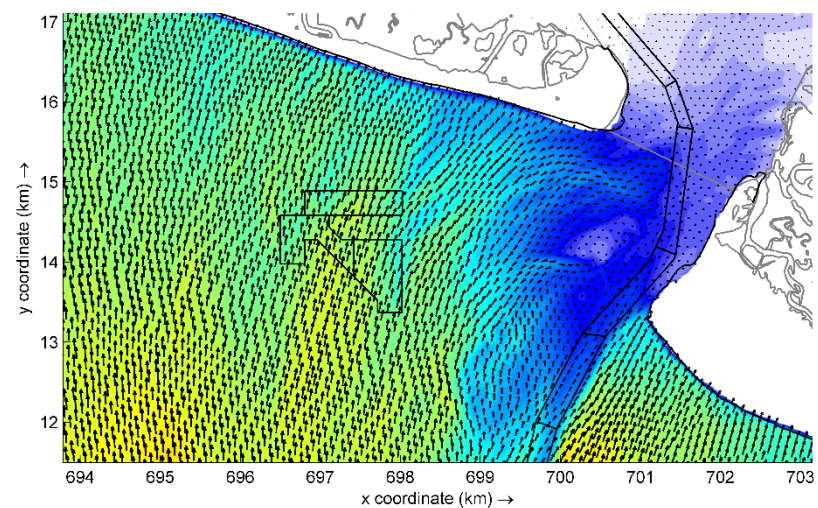
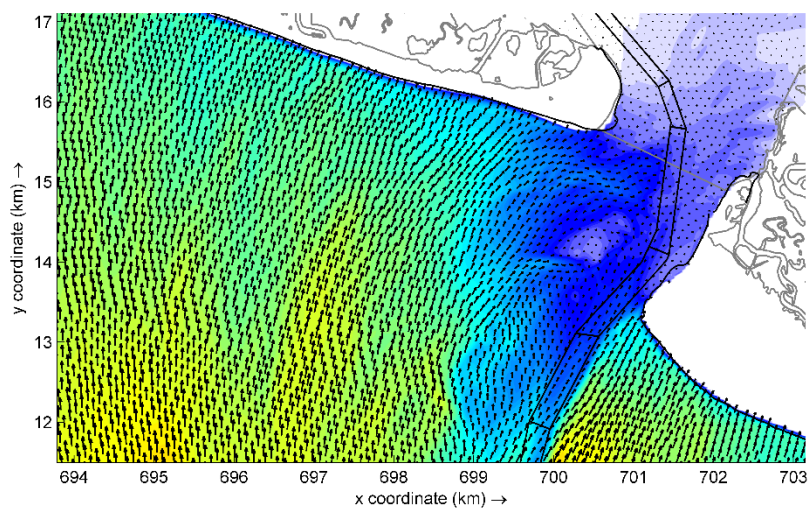
Offshore Wave Case28:

$H_s = 14.1$ ft, $T_p = 10.4$ s, Dir = 142.1 degN

Percent Occurrence = 0.054%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



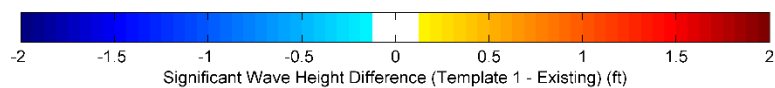
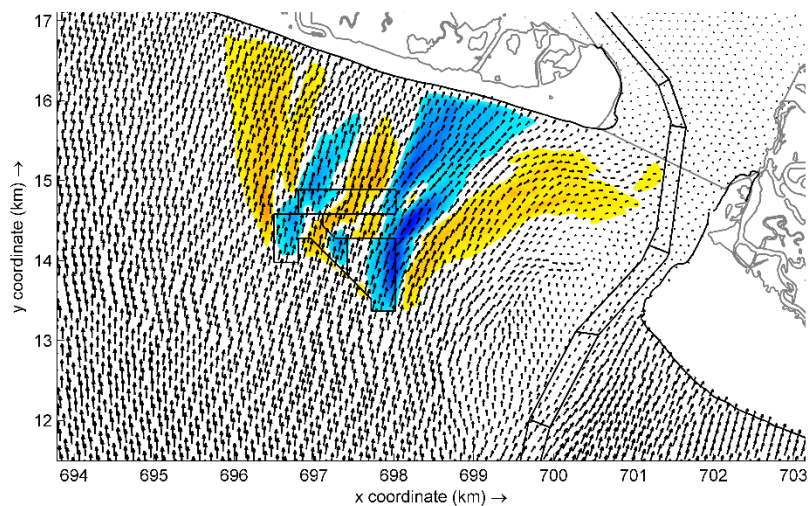
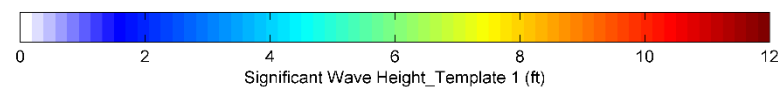
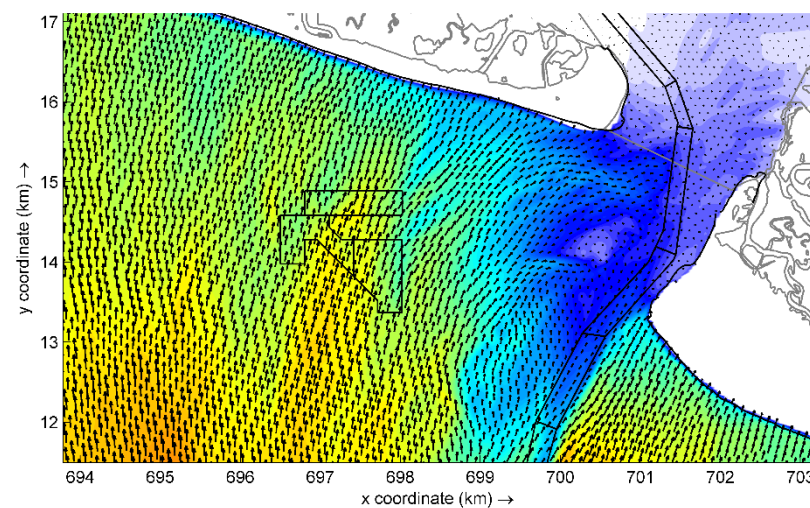
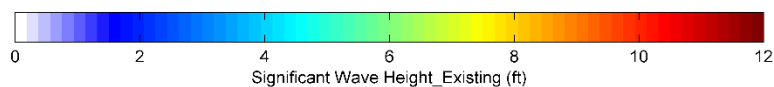
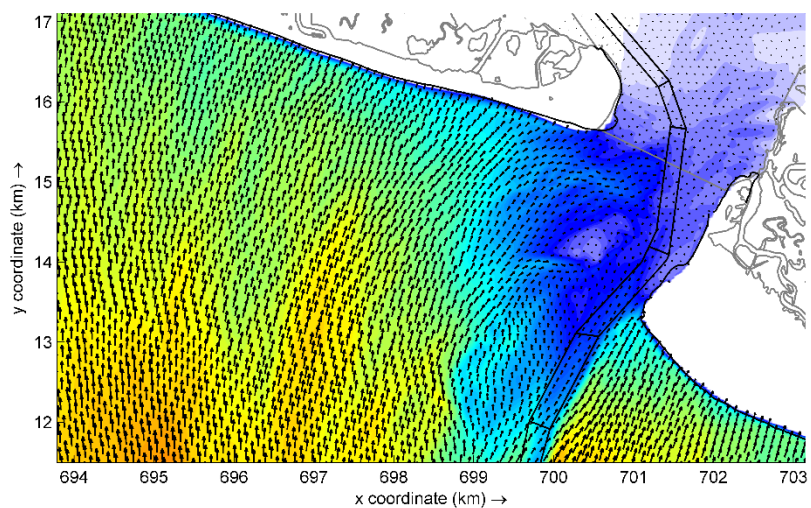
Offshore Wave Case29:

$H_s = 18.3$ ft, $T_p = 11.1$ s, Dir = 142.9 degN

Percent Occurrence = 0.011%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



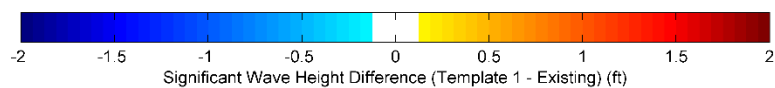
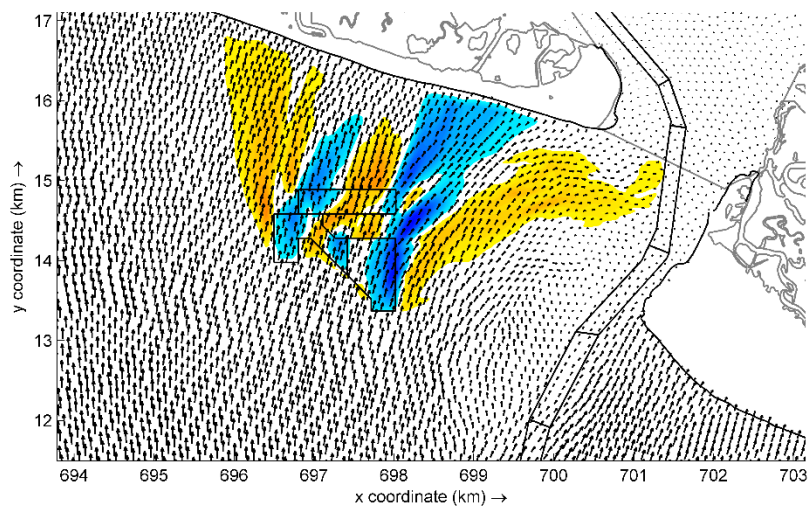
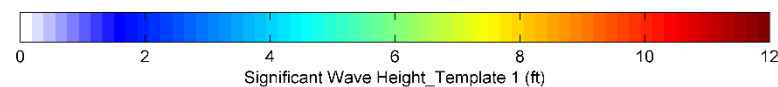
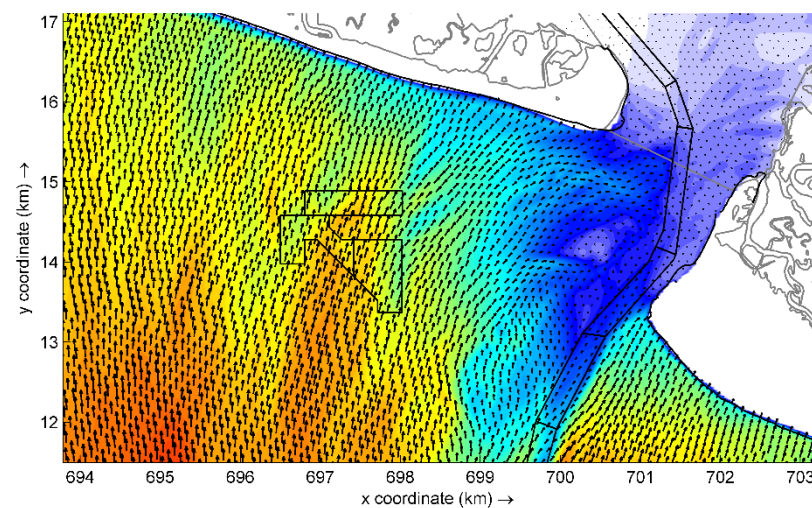
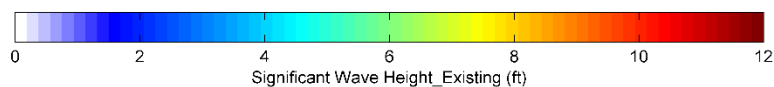
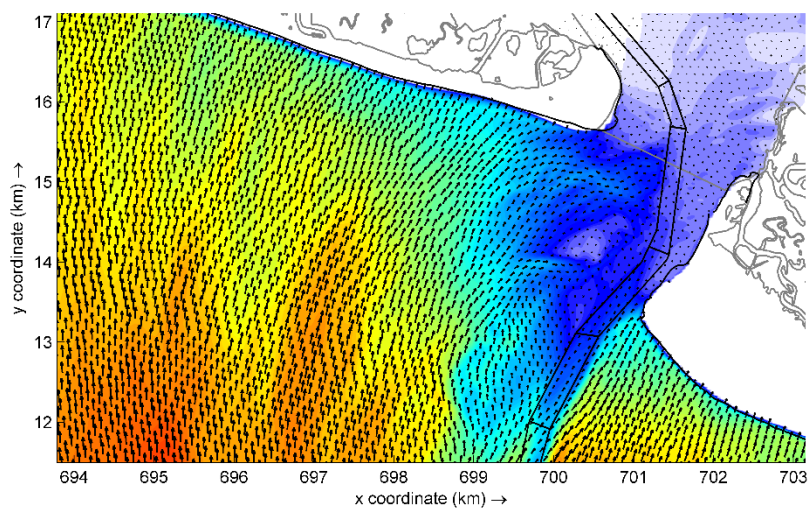
Offshore Wave Case30:

$H_s = 20.2$ ft, $T_p = 12.3$ s, Dir = 142.6 degN

Percent Occurrence = 0.003%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



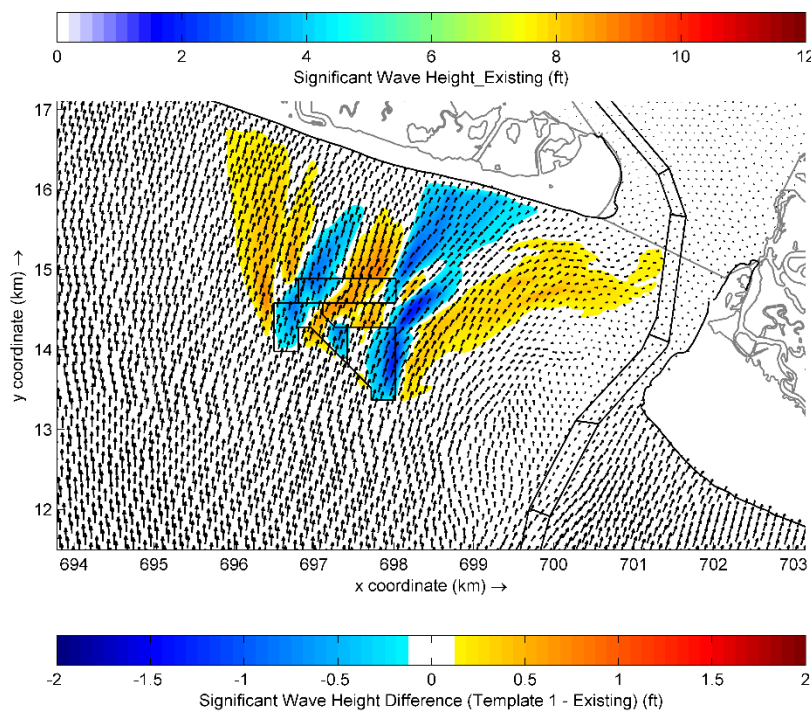
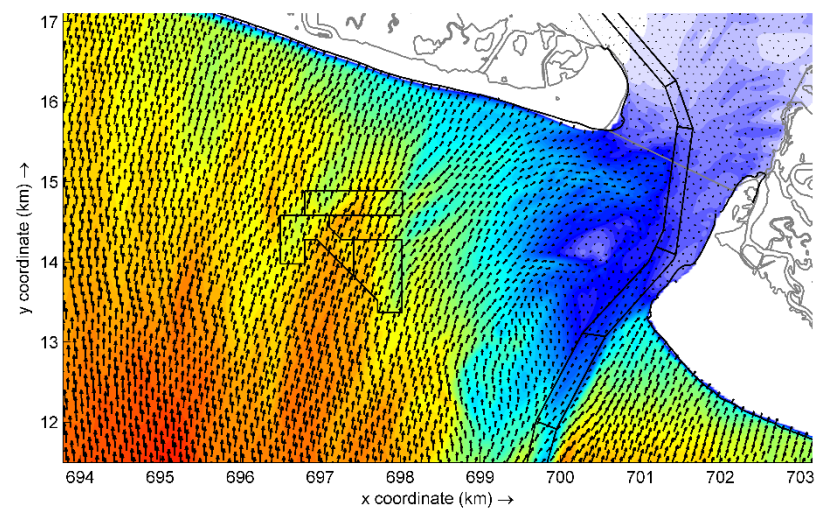
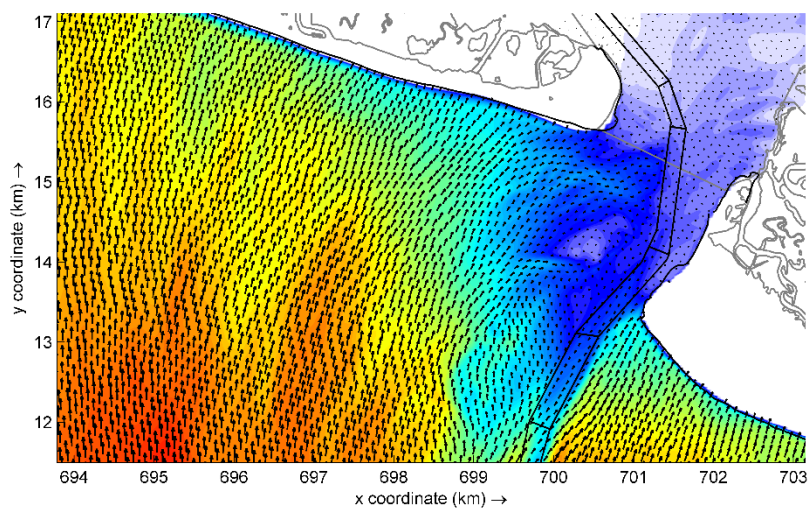
Offshore Wave Case31:

$H_s = 25.2$ ft, $T_p = 15.9$ s, Dir = 141.2 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



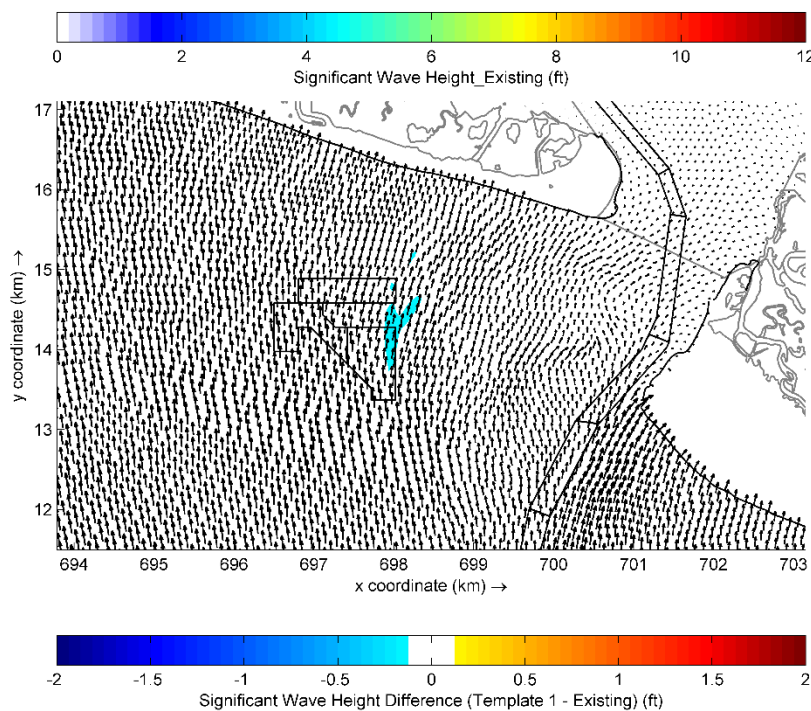
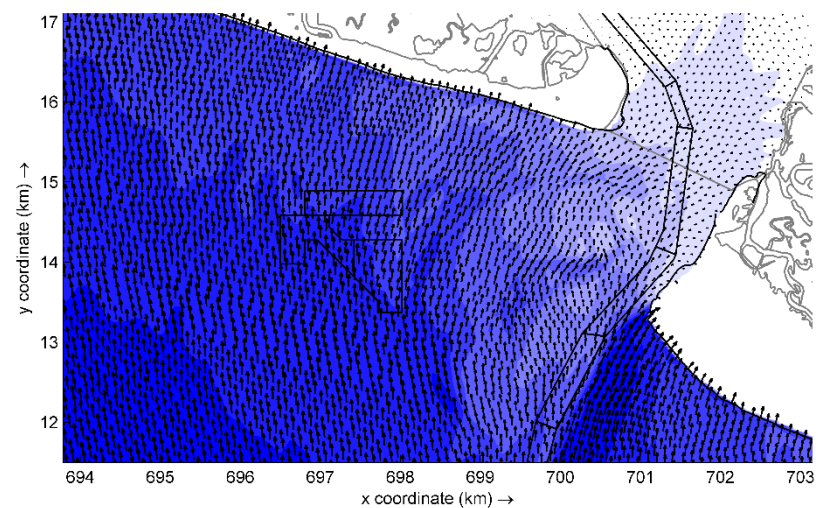
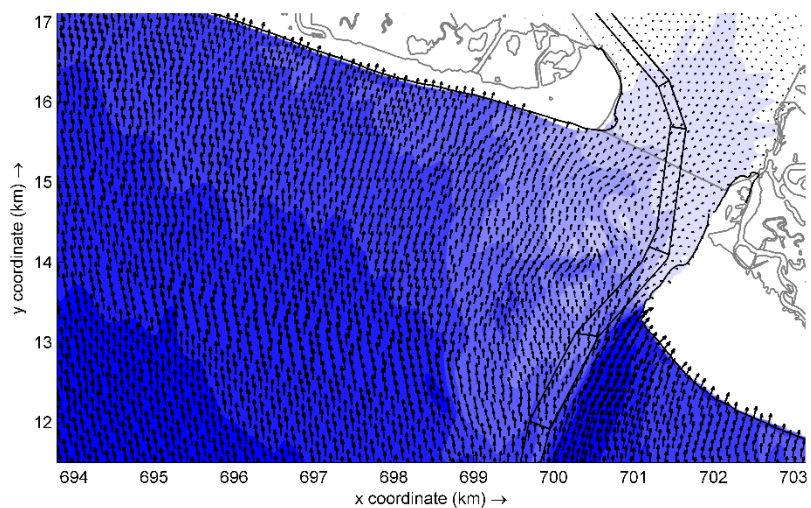
Offshore Wave Case32:

$H_s = 27.6$ ft, $T_p = 14.8$ s, Dir = 143.3 degN

Percent Occurrence = 0.001%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



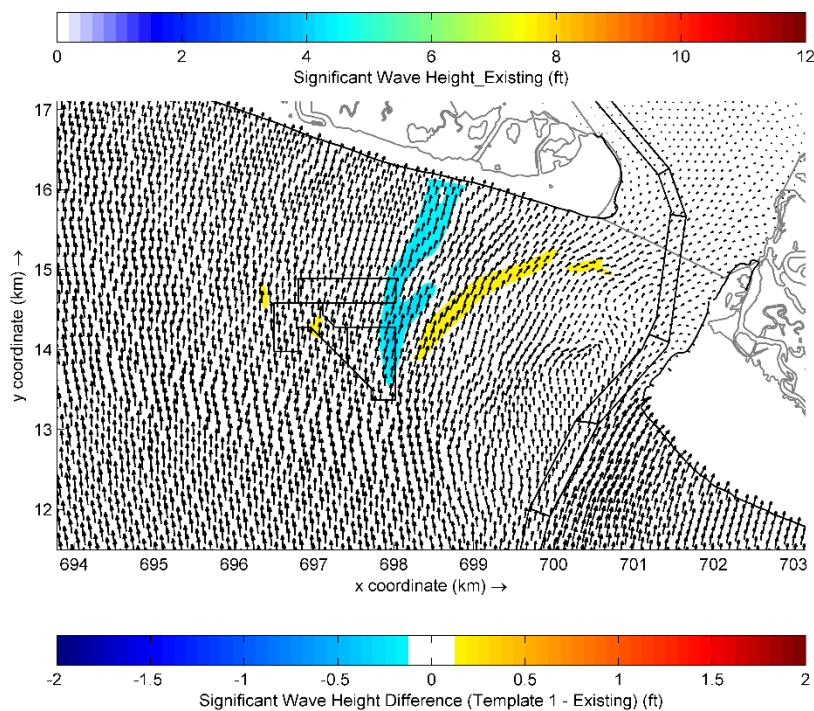
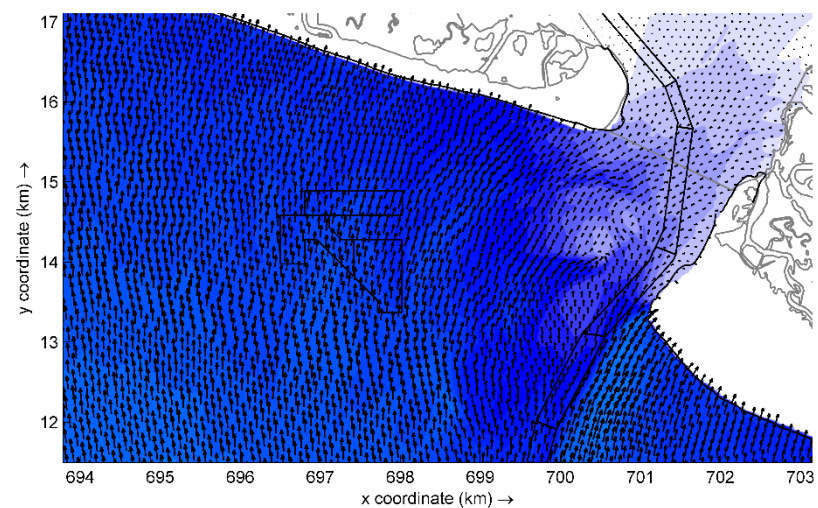
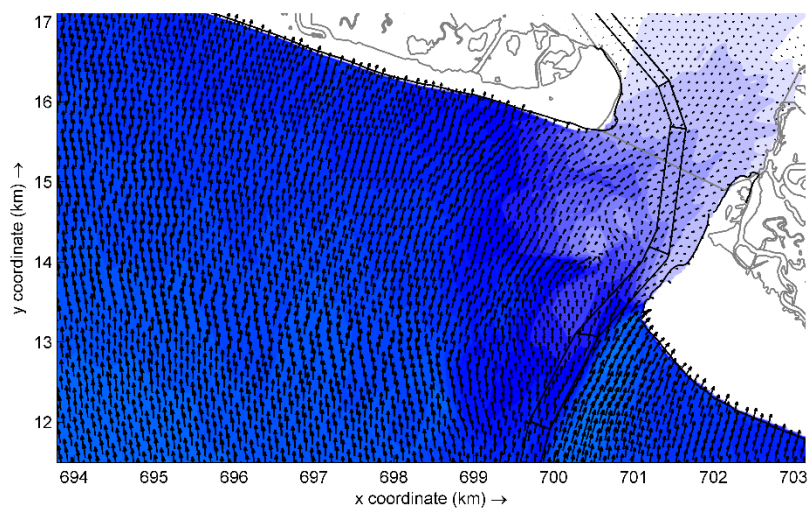
Offshore Wave Case33:

$H_s = 2.6$ ft, $T_p = 7.1$ s, Dir = 156.91 degN

Percent Occurrence = 2.225%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



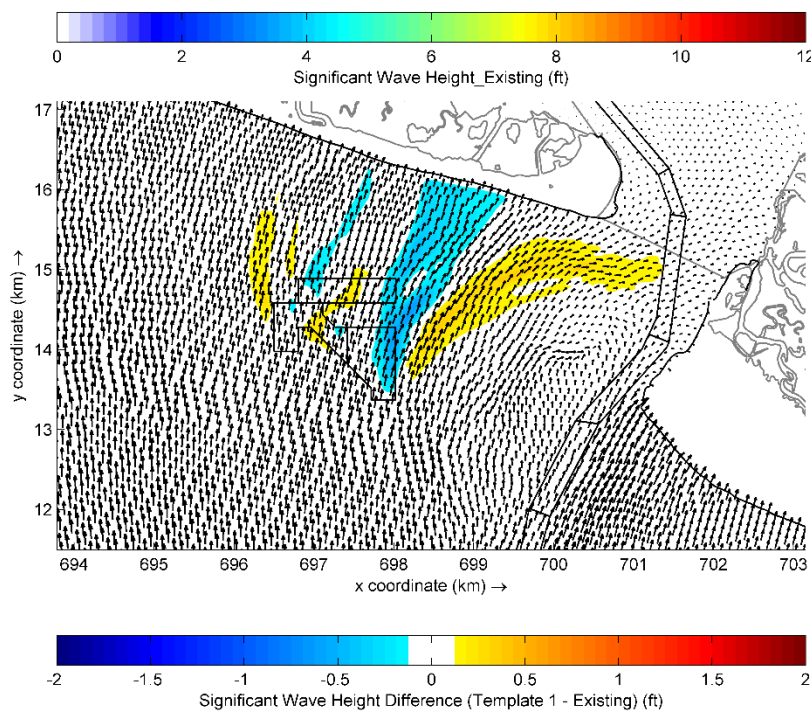
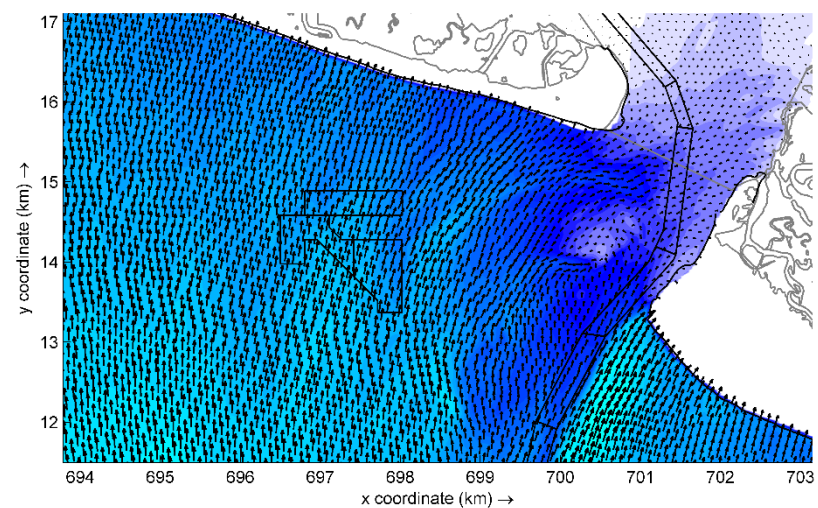
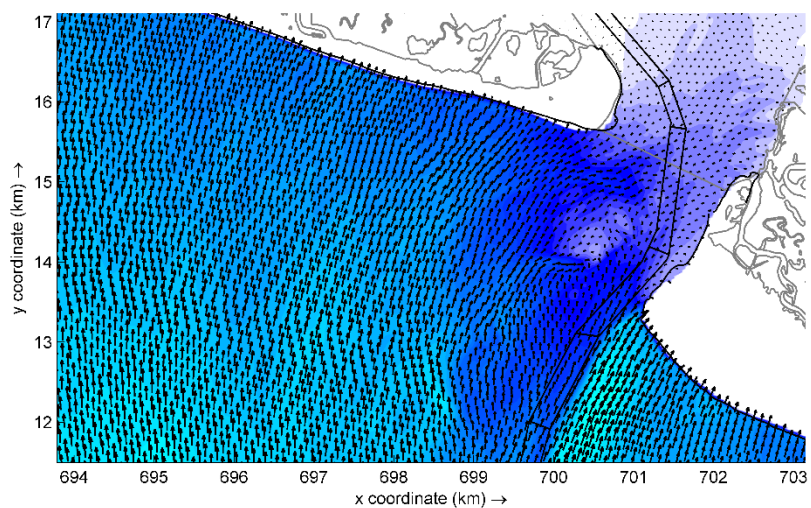
Offshore Wave Case34:

$H_s = 4.6$ ft, $T_p = 7.4$ s, Dir = 157.3 degN

Percent Occurrence = 2.810%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



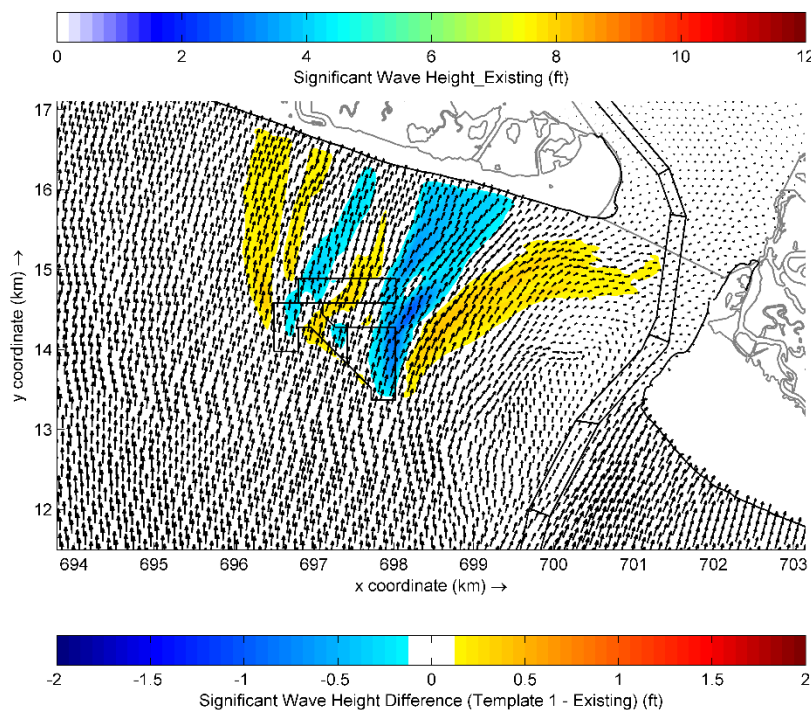
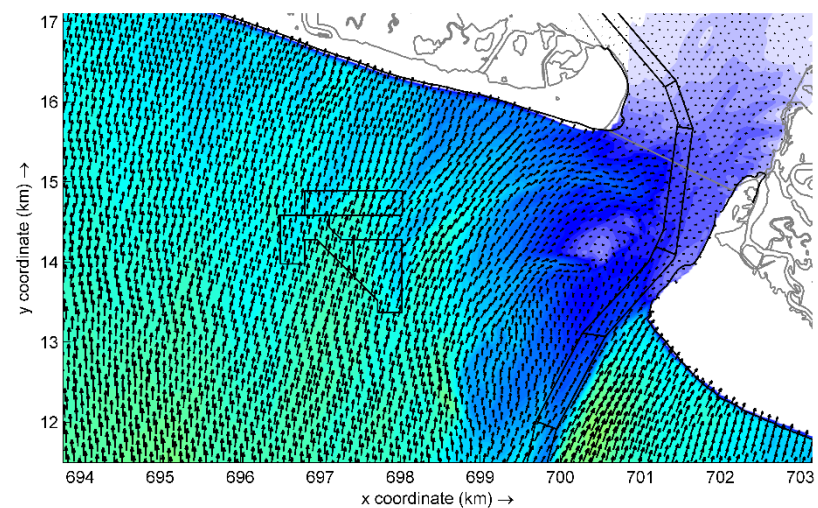
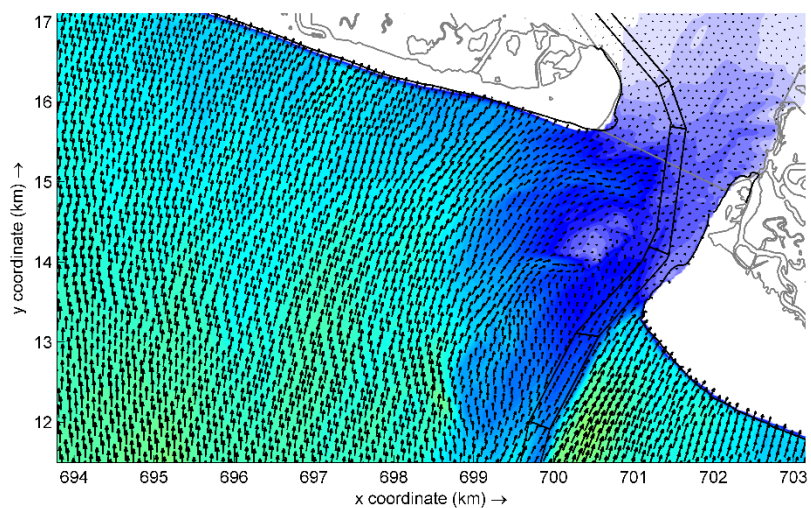
Offshore Wave Case35:

$H_s = 7.8$ ft, $T_p = 8.1$ s, Dir = 157.7 degN

Percent Occurrence = 0.739%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



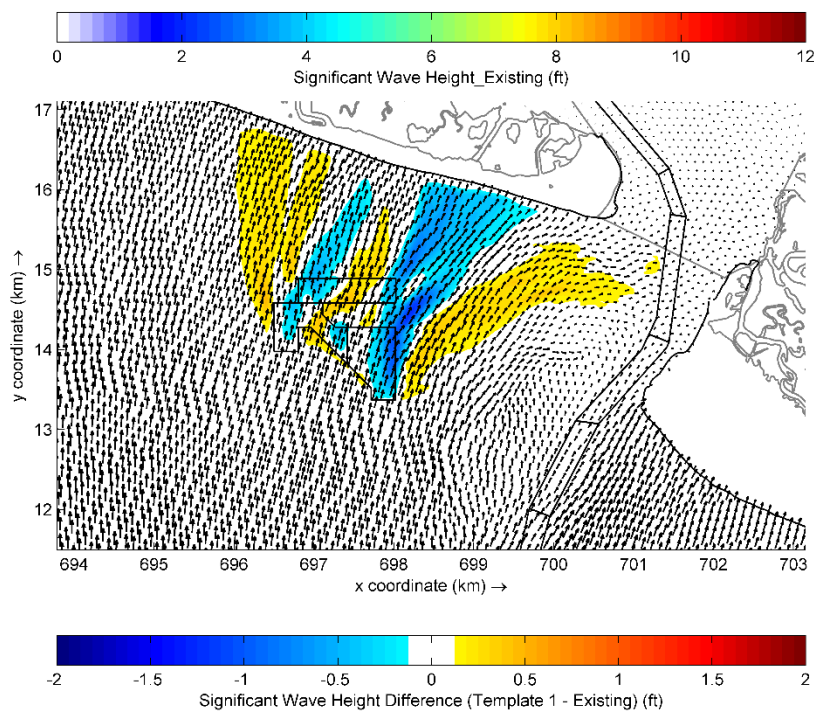
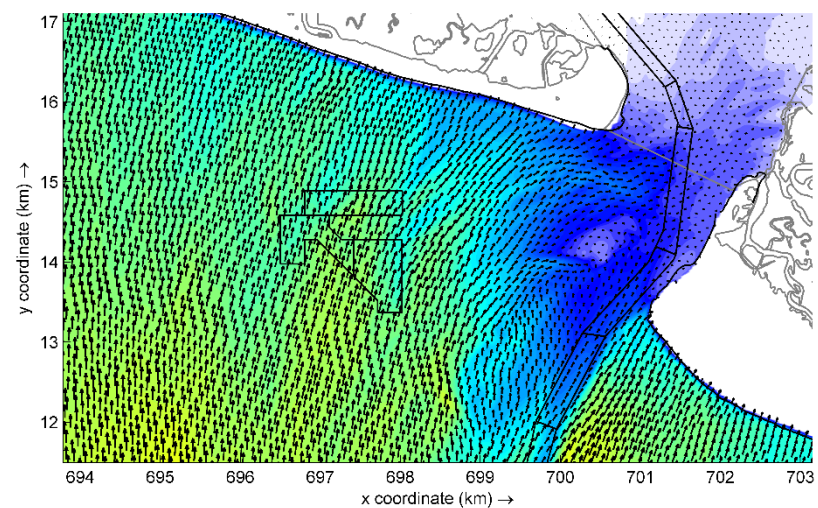
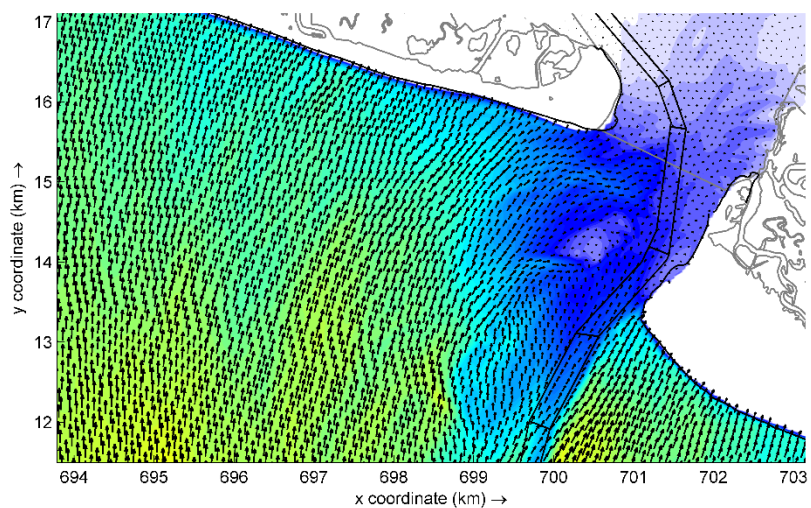
Offshore Wave Case36:

$H_s = 11.0$ ft, $T_p = 9.2$ s, Dir = 157.3 degN

Percent Occurrence = 0.174%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



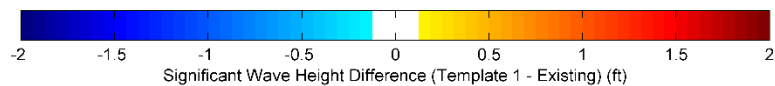
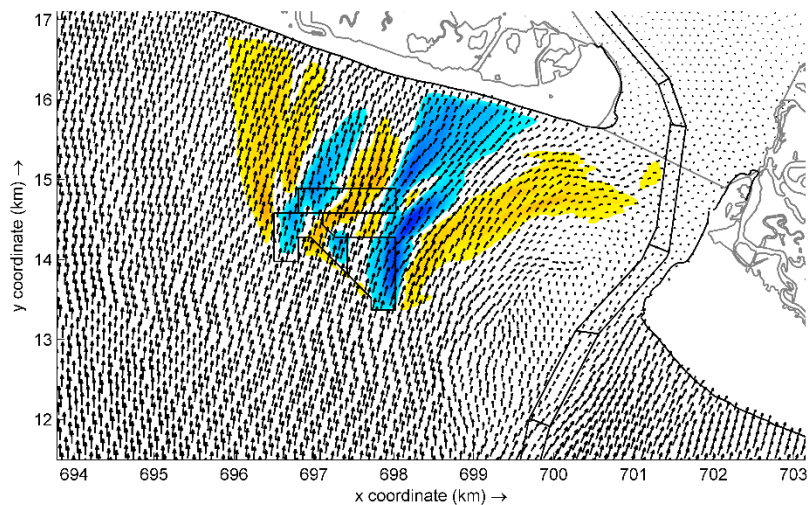
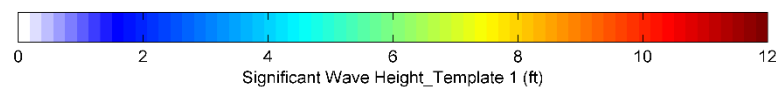
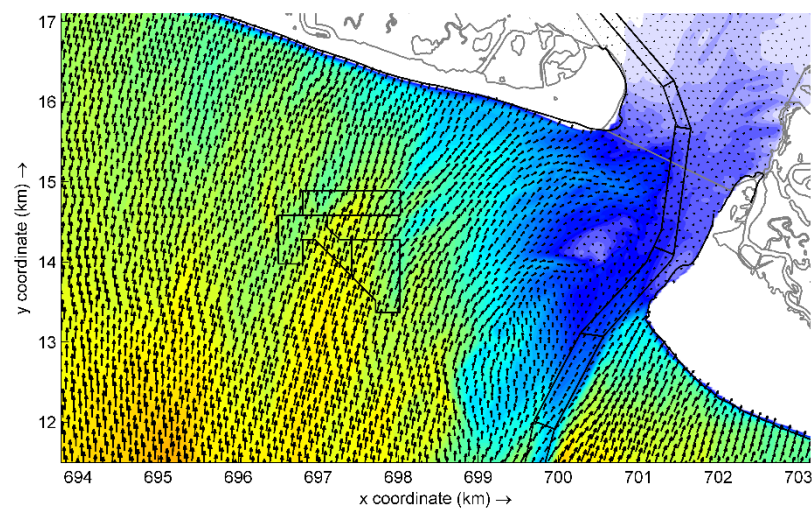
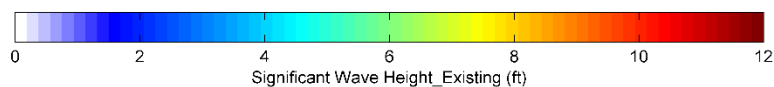
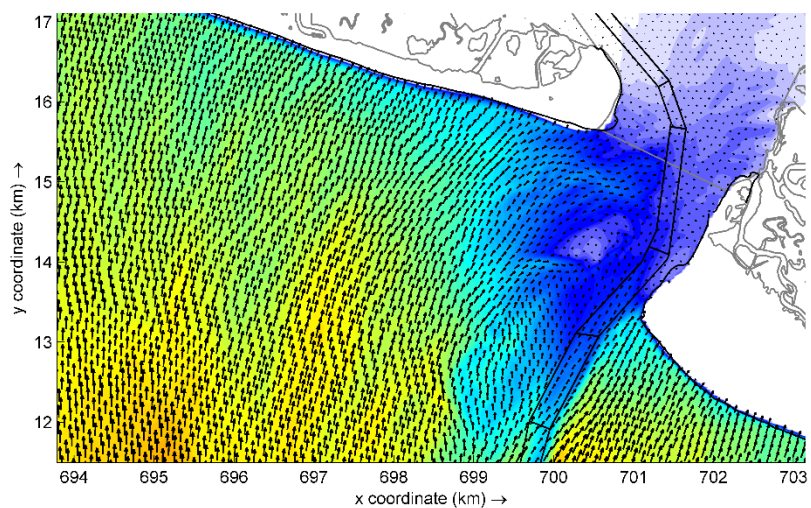
Offshore Wave Case37:

$H_s = 14.6$ ft, $T_p = 9.7$ s, Dir = 157.6 degN

Percent Occurrence = 0.035%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



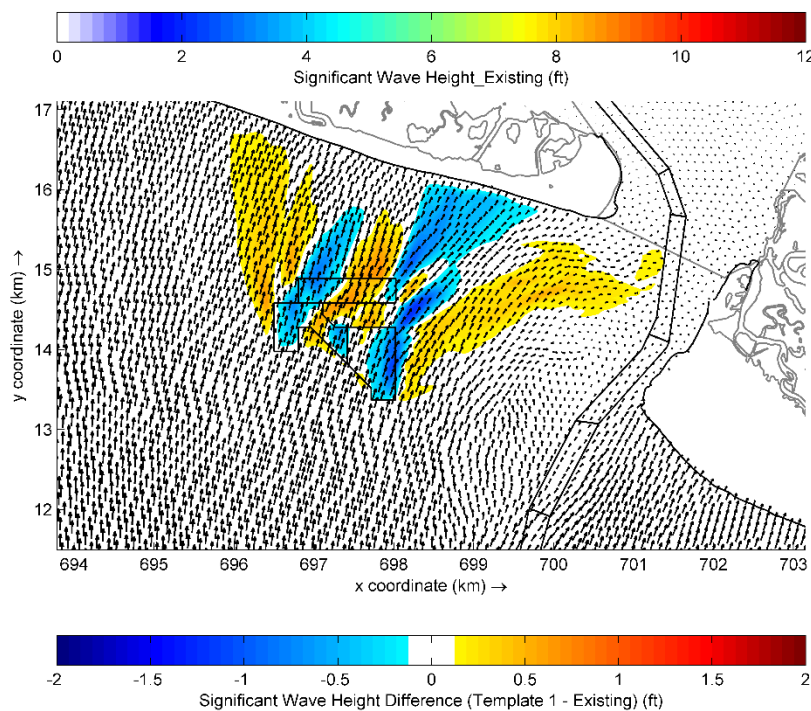
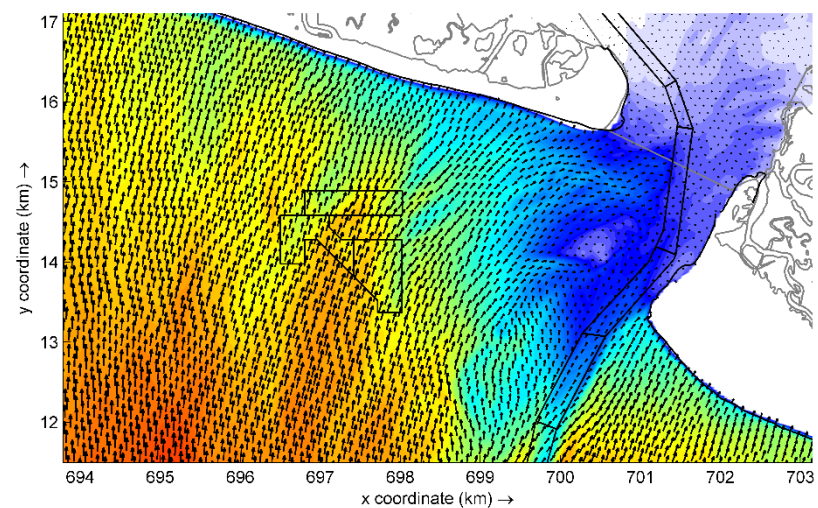
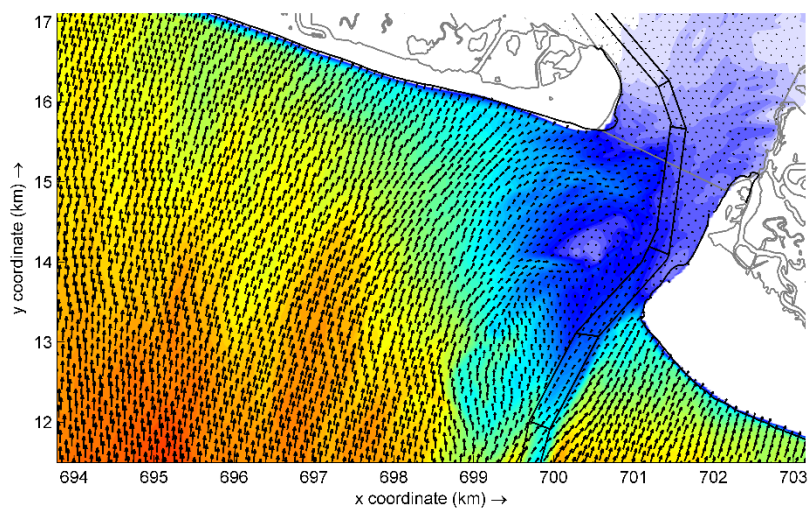
Offshore Wave Case38:

$H_s = 17.4$ ft, $T_p = 11.1$ s, Dir = 154.1 degN

Percent Occurrence = 0.007%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



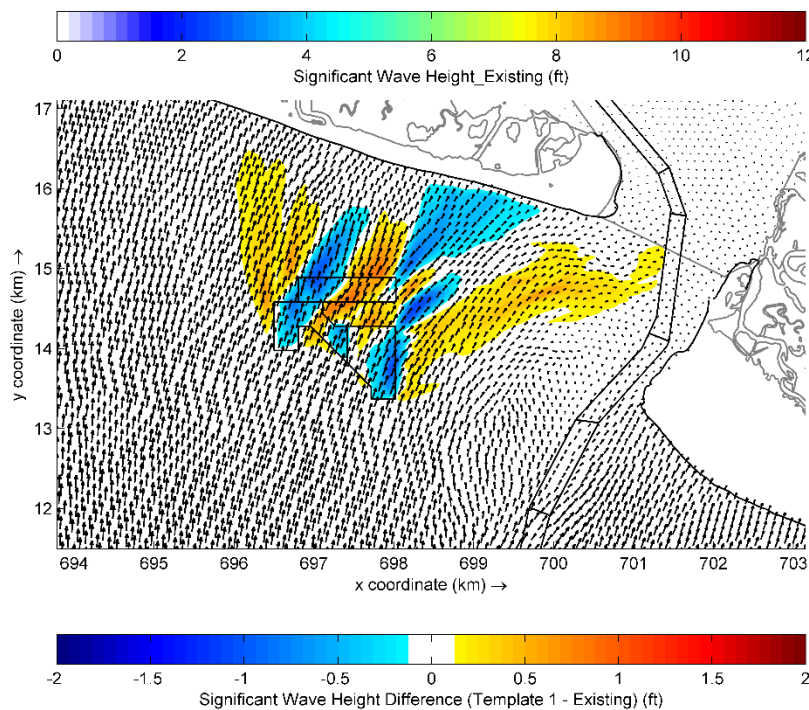
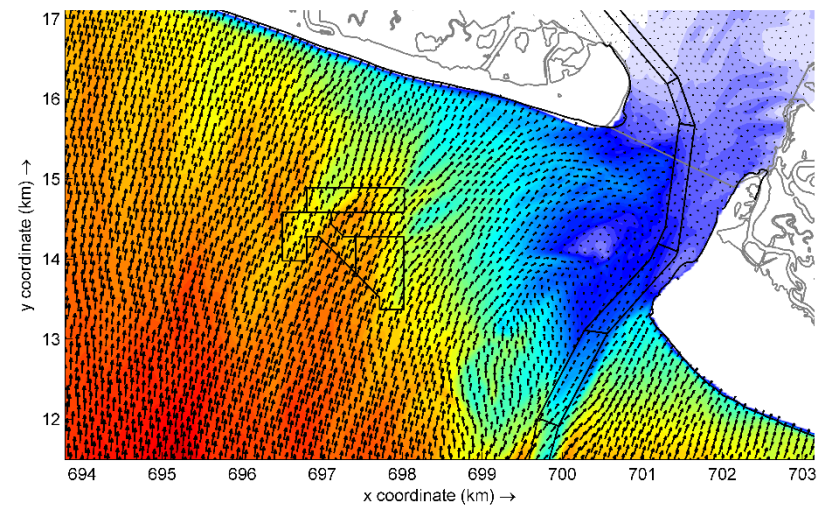
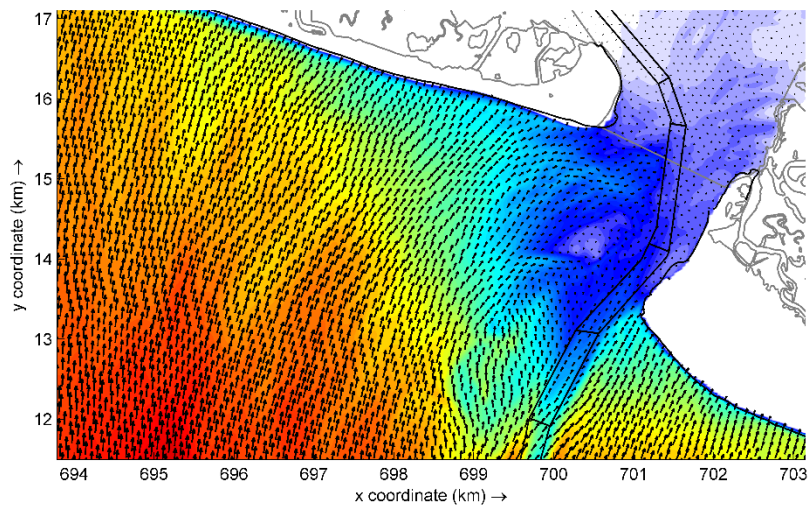
Offshore Wave Case39:

$H_s = 20.5$ ft, $T_p = 11.9$ s, Dir = 154.8 degN

Percent Occurrence = 0.003%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



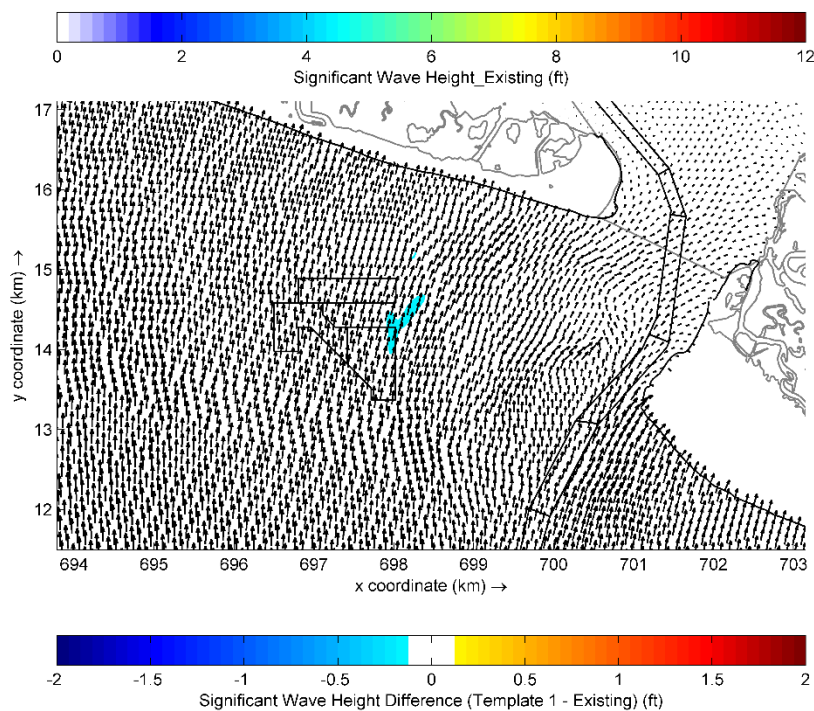
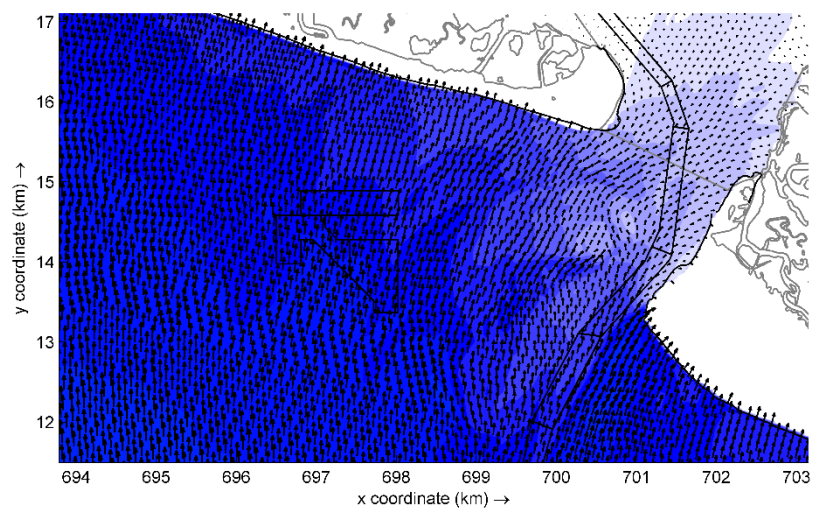
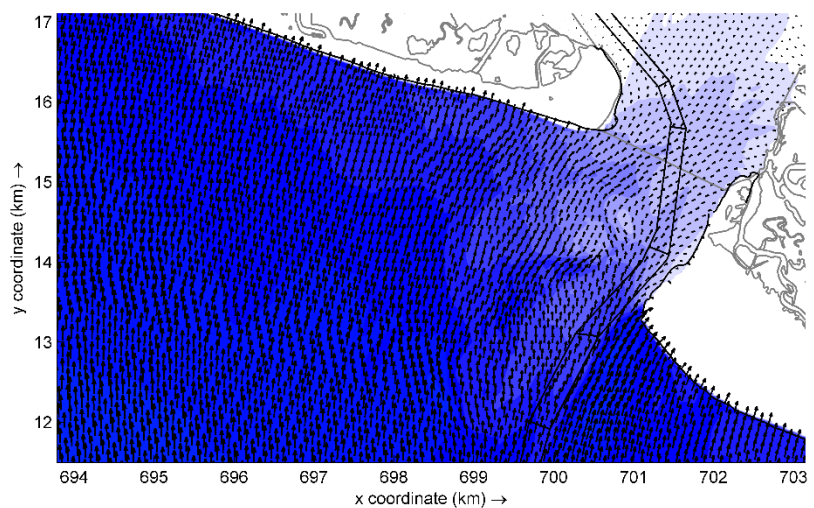
Offshore Wave Case40:

$H_s = 23.9$ ft, $T_p = 13.0$ s, Dir = 159.0 degN

Percent Occurrence = 0.001%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



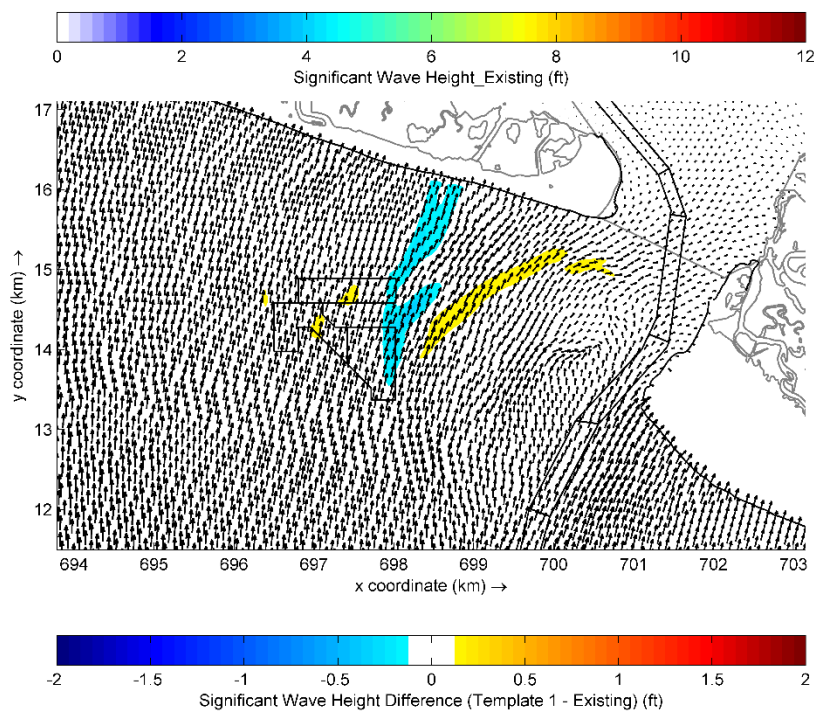
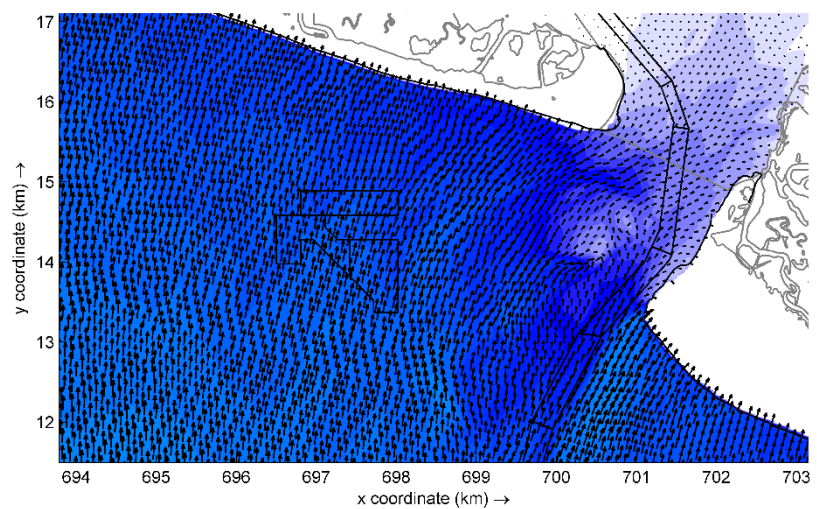
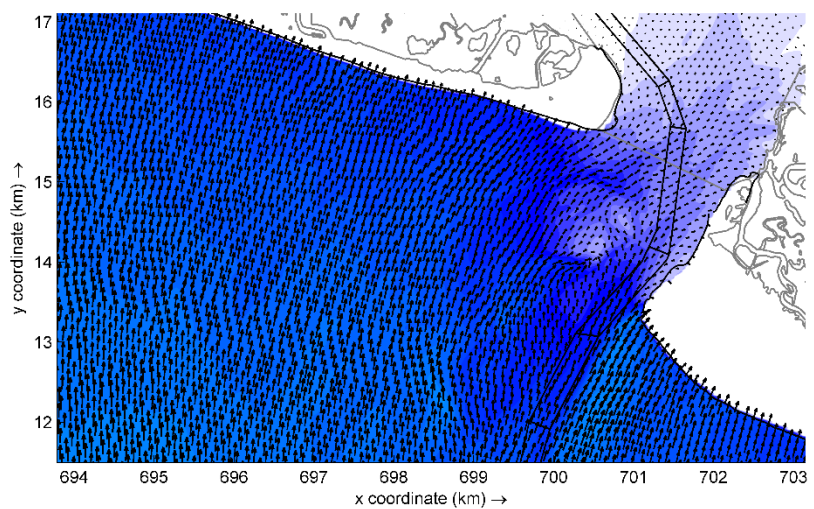
Offshore Wave Case41:

$H_s = 2.7$ ft, $T_p = 6.1$ s, Dir = 172.3 degN

Percent Occurrence = 1.770%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



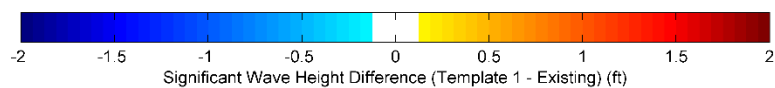
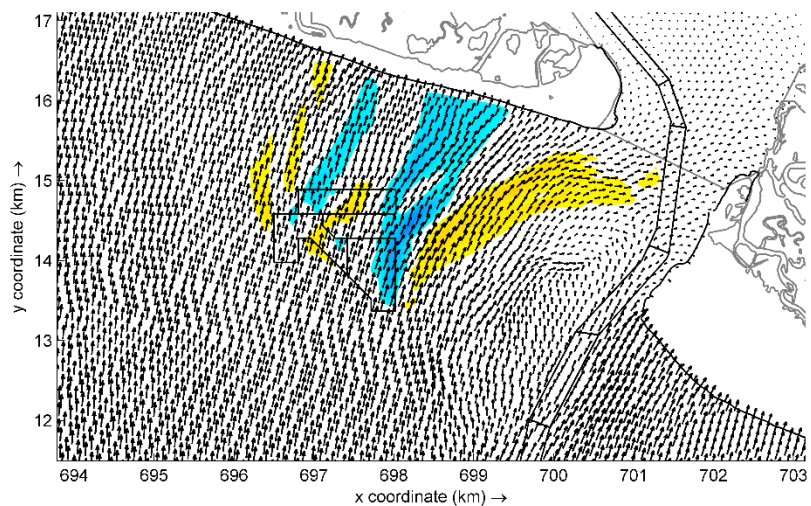
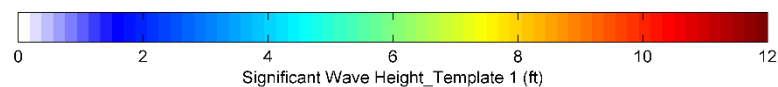
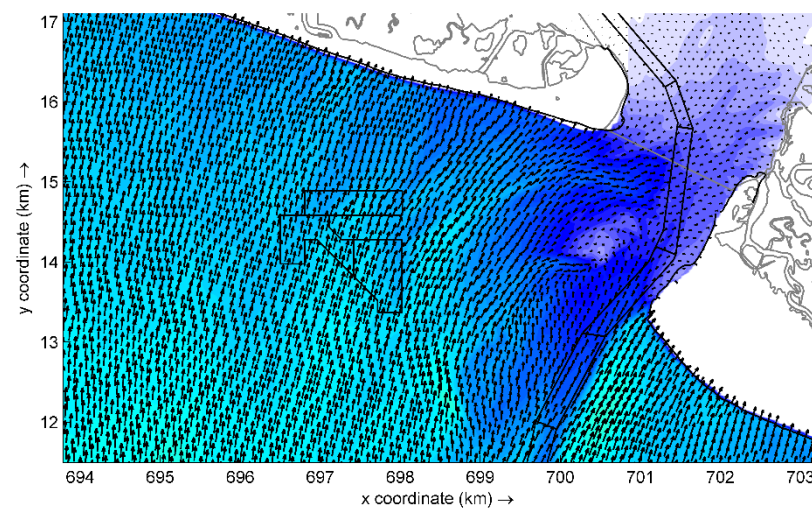
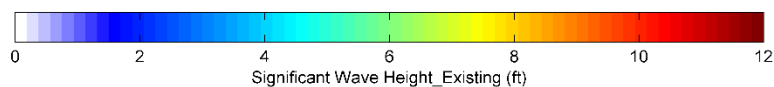
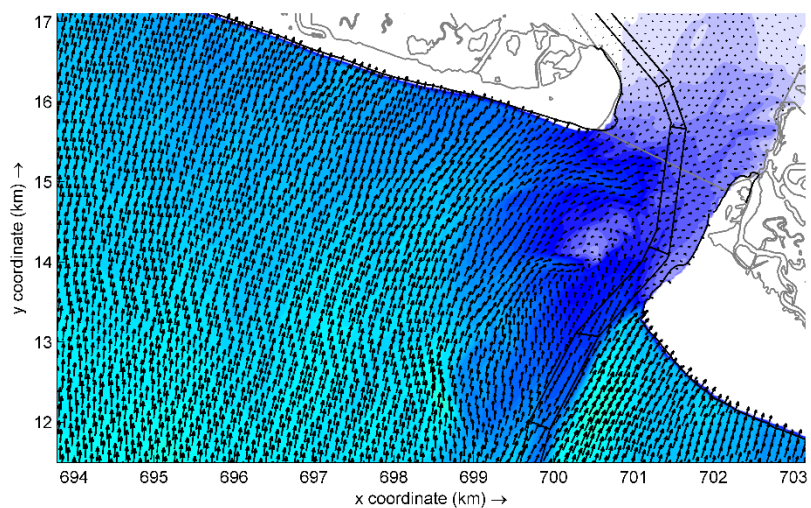
Offshore Wave Case42:

$H_s = 4.6$ ft, $T_p = 6.7$ s, Dir = 172.6 degN

Percent Occurrence = 3.194%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



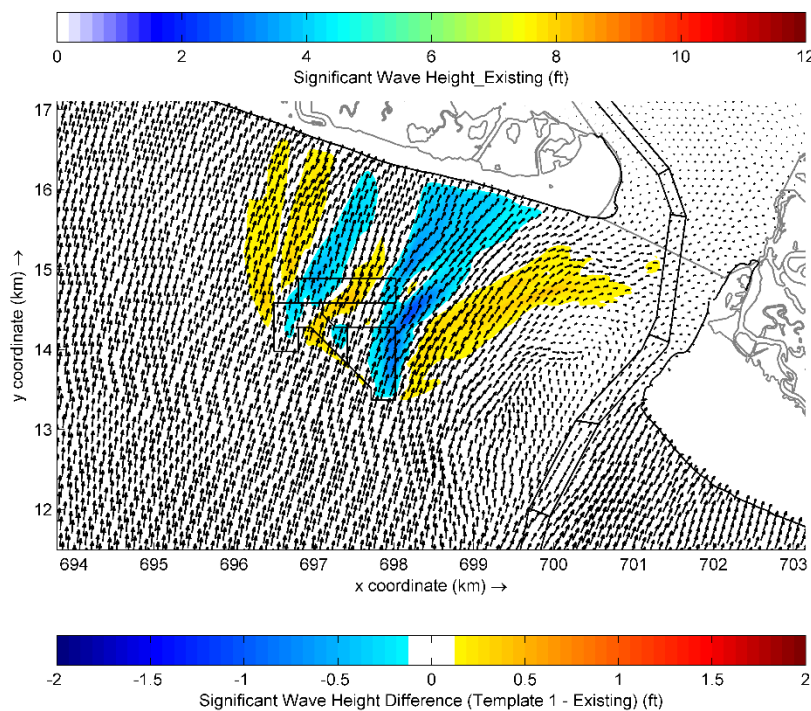
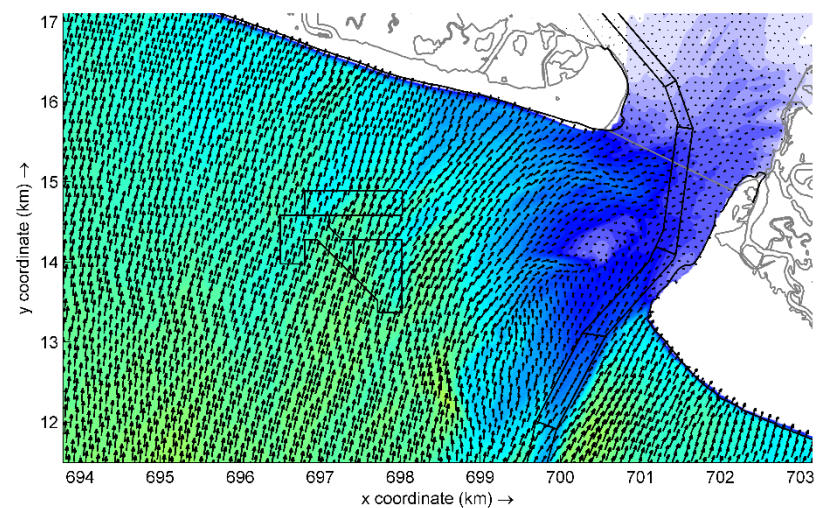
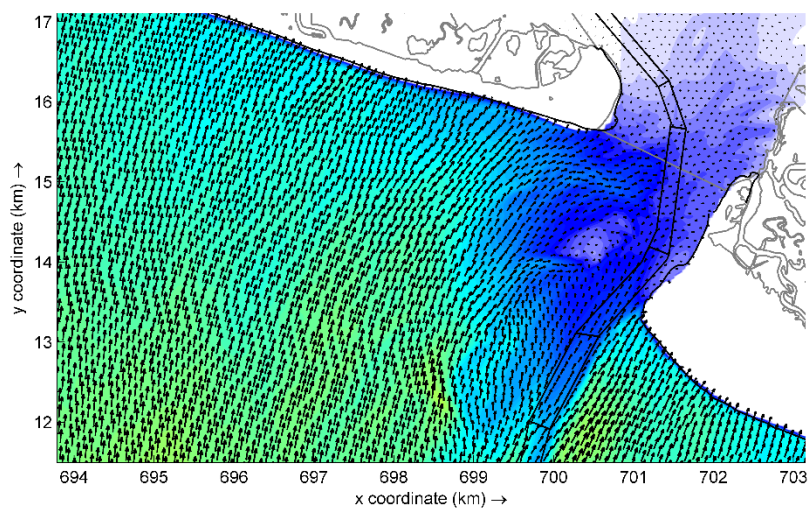
Offshore Wave Case43:

$H_s = 7.8$ ft, $T_p = 8.0$ s, Dir = 172.5 degN

Percent Occurrence = 1.012%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



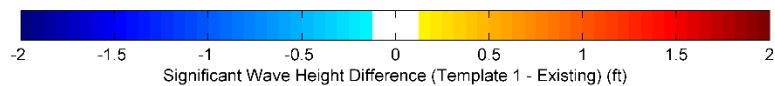
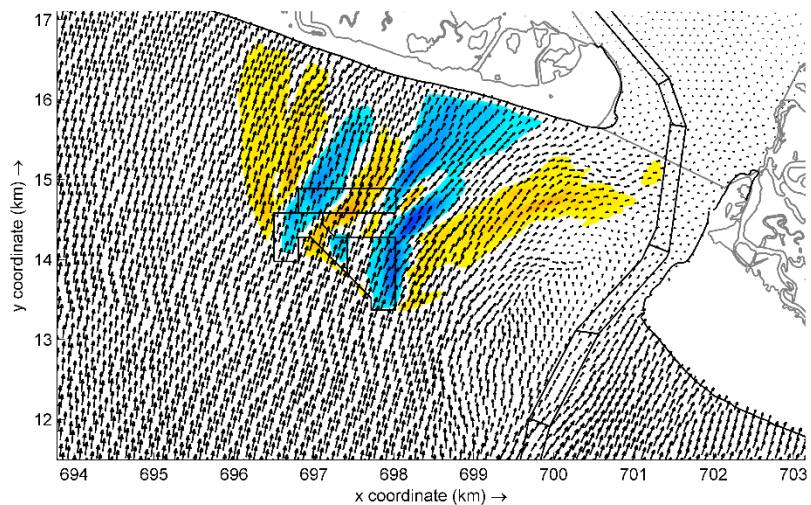
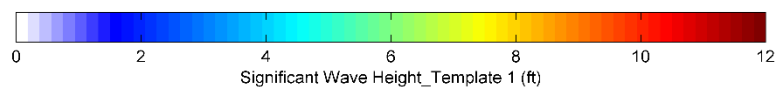
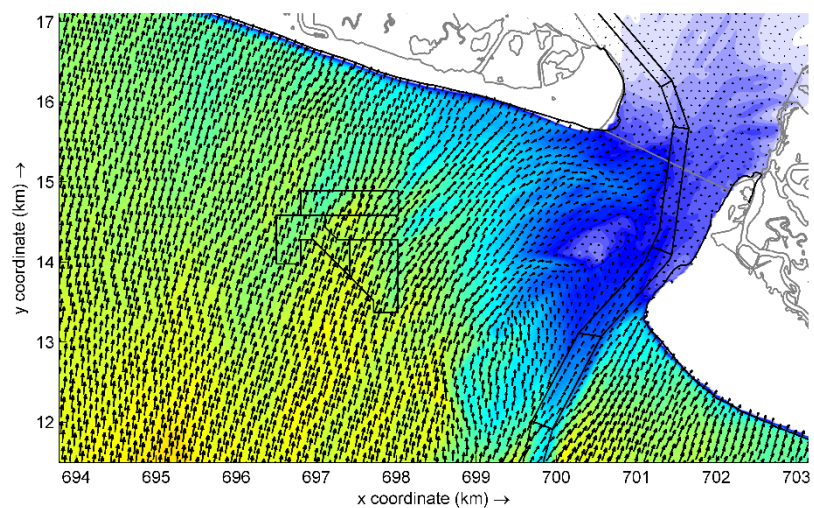
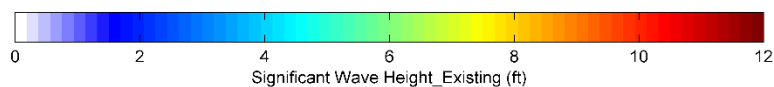
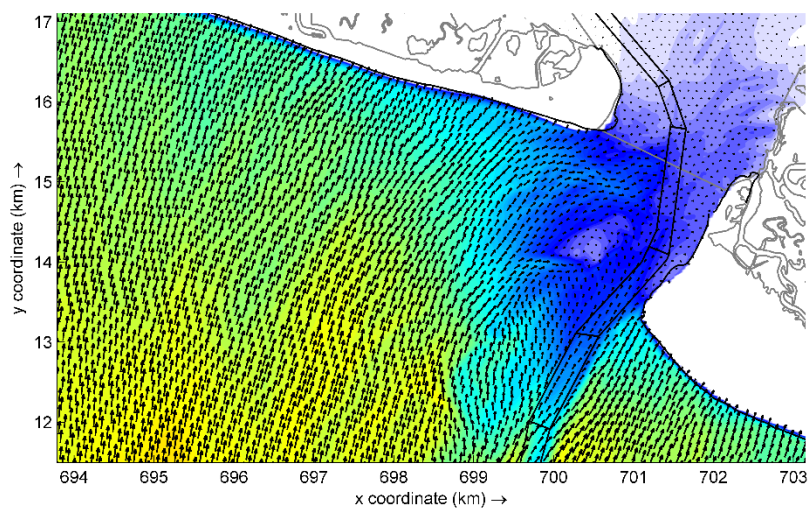
Offshore Wave Case44:

$H_s = 11.1$ ft, $T_p = 9.0$ s, Dir = 172.9 degN

Percent Occurrence = 0.204%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



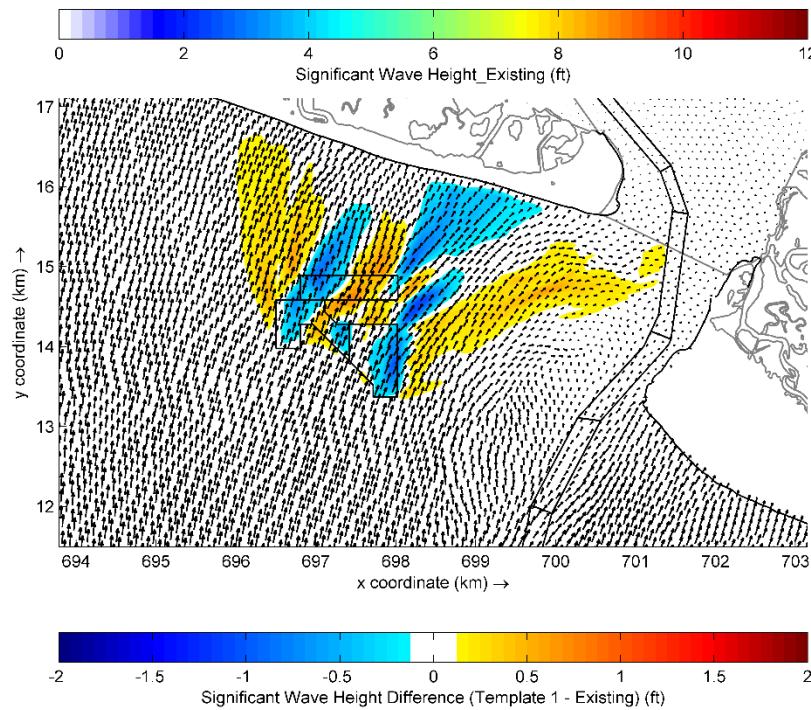
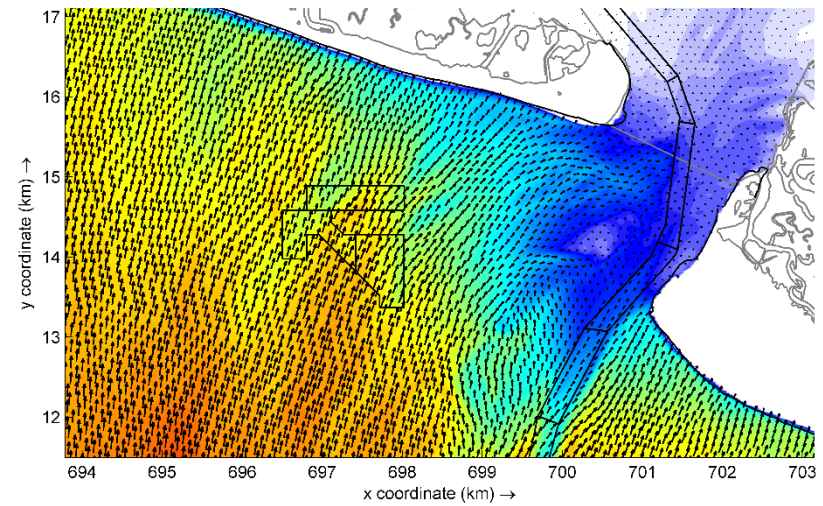
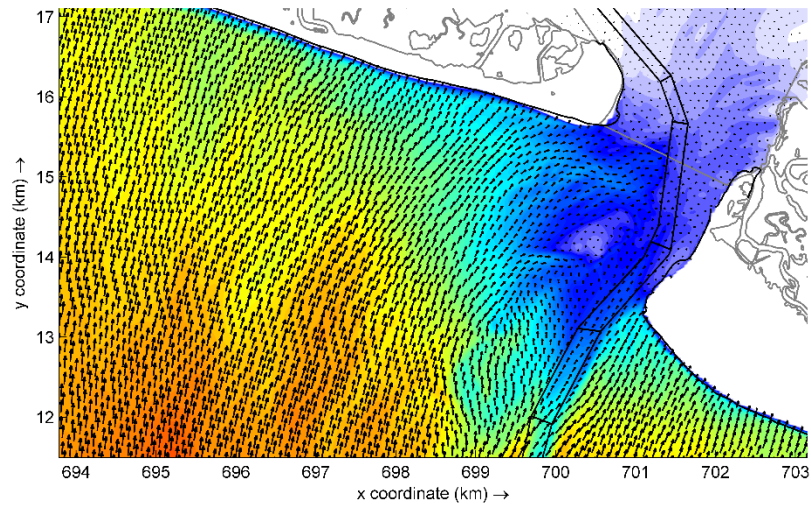
Offshore Wave Case45:

$H_s = 14.3$ ft, $T_p = 9.6$ s, Dir = 173.7 degN

Percent Occurrence = 0.029%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



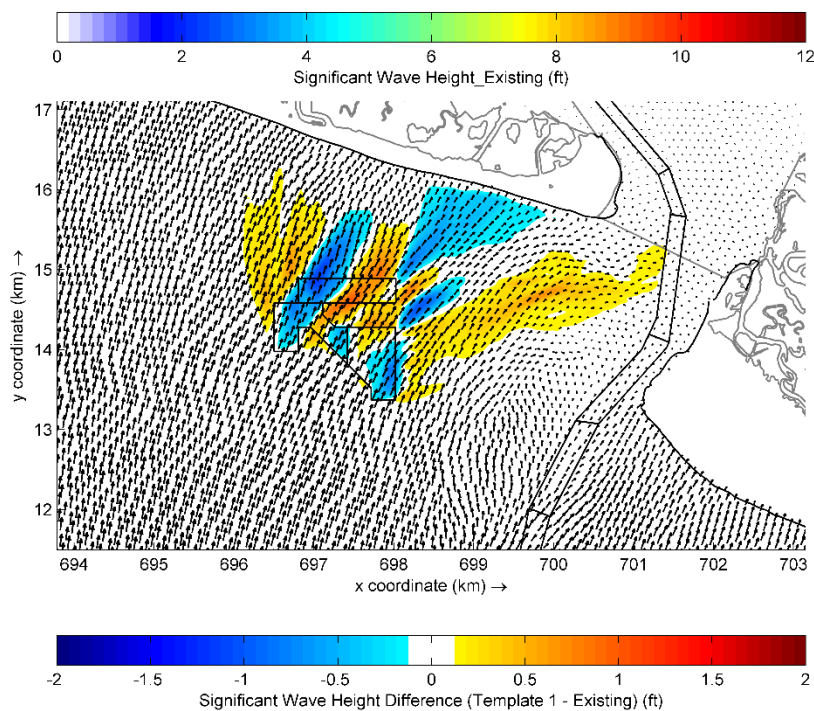
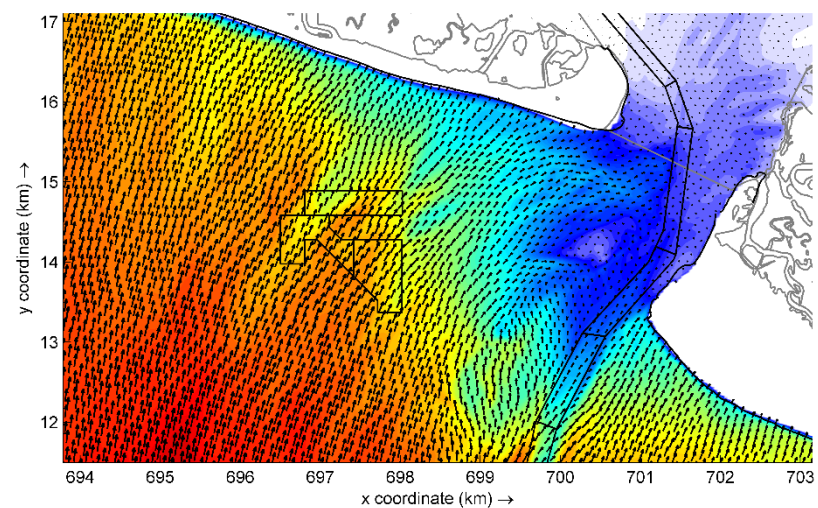
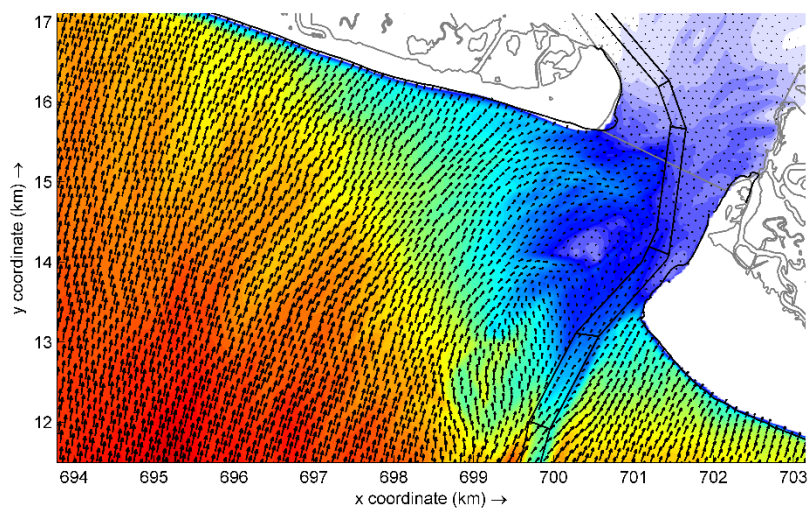
Offshore Wave Case46:

$H_s = 17.6$ ft, $T_p = 11.2$ s, Dir = 169.7 degN

Percent Occurrence = 0.004%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



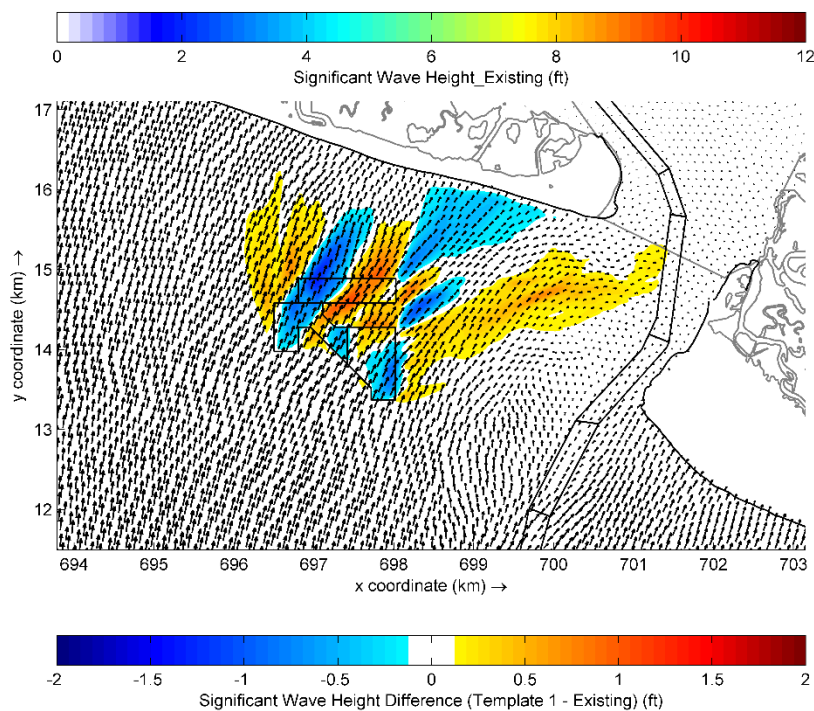
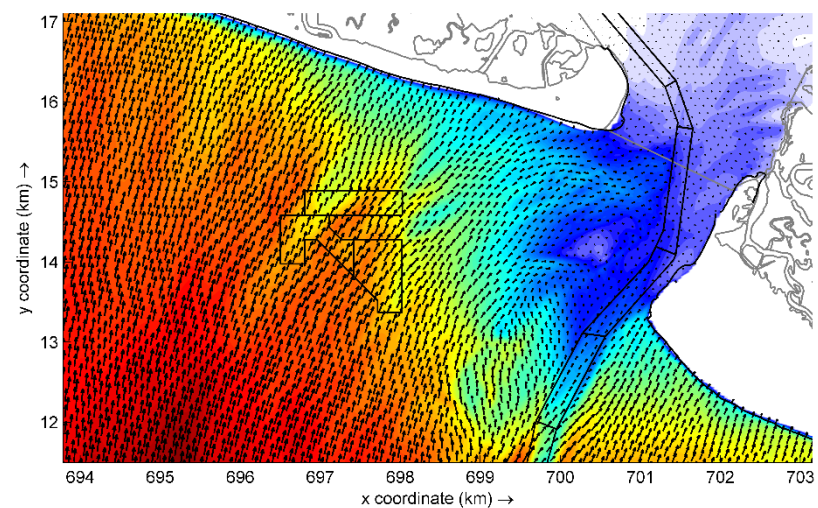
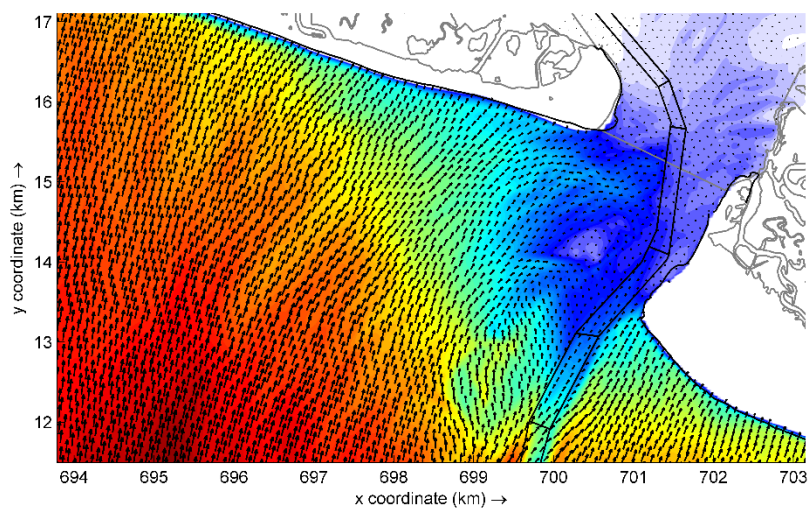
Offshore Wave Case47:

$H_s = 20.7$ ft, $T_p = 12.0$ s, Dir = 175.7 degN

Percent Occurrence = 0.004%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



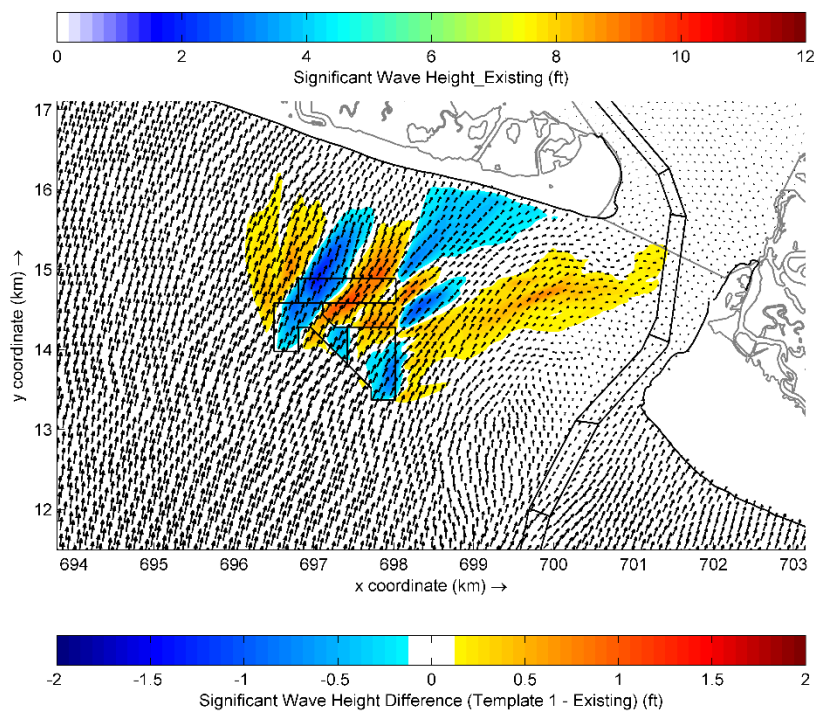
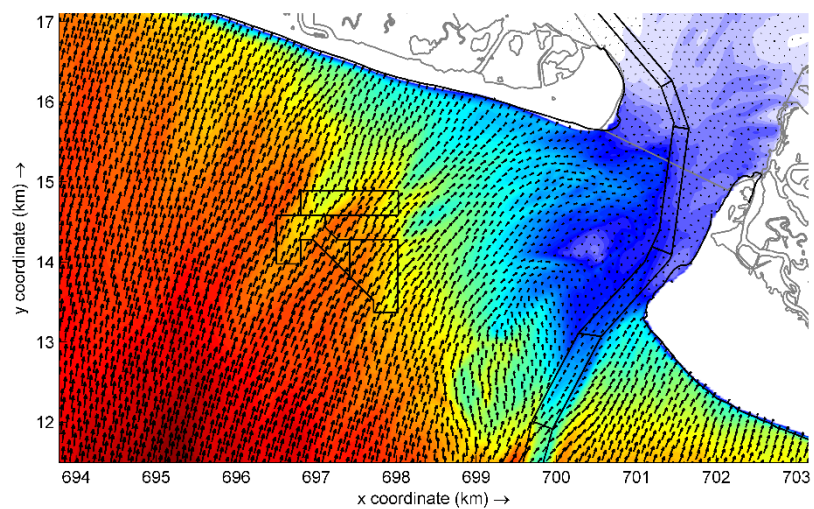
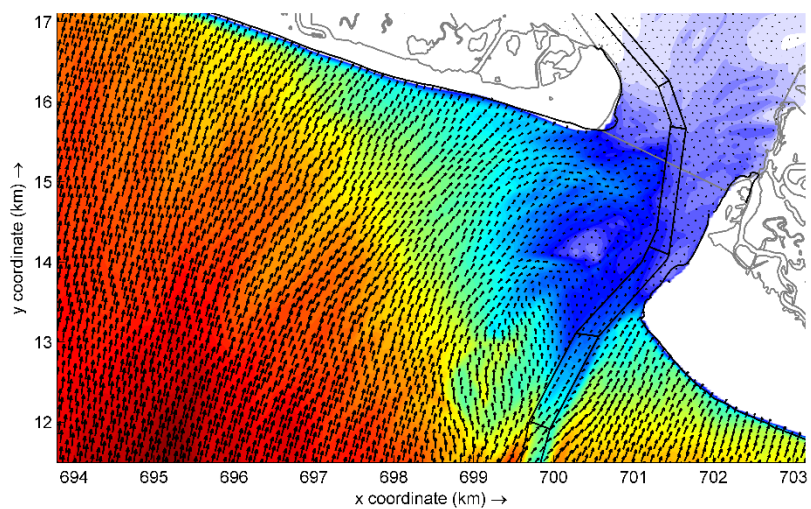
Offshore Wave Case48:

$H_s = 25.8$ ft, $T_p = 13.8$ s, Dir = 169.7 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



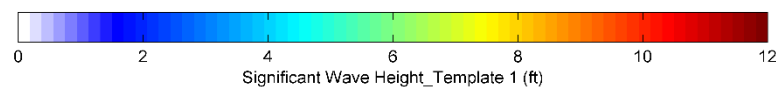
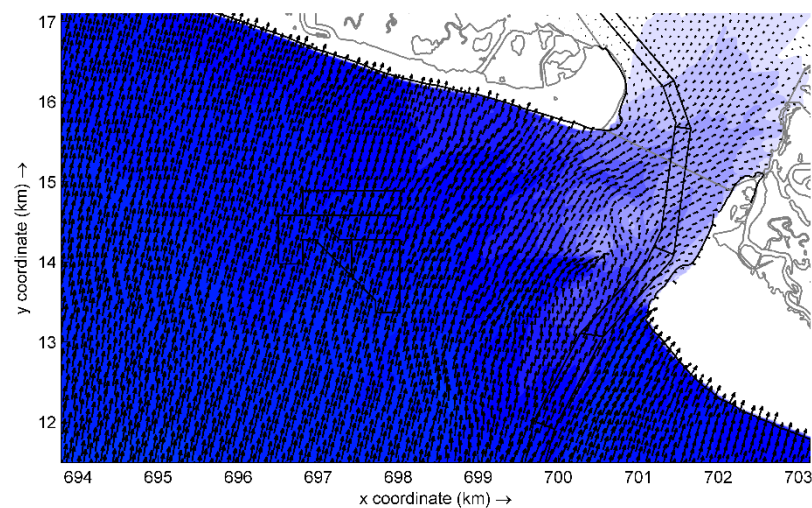
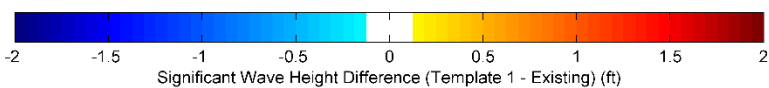
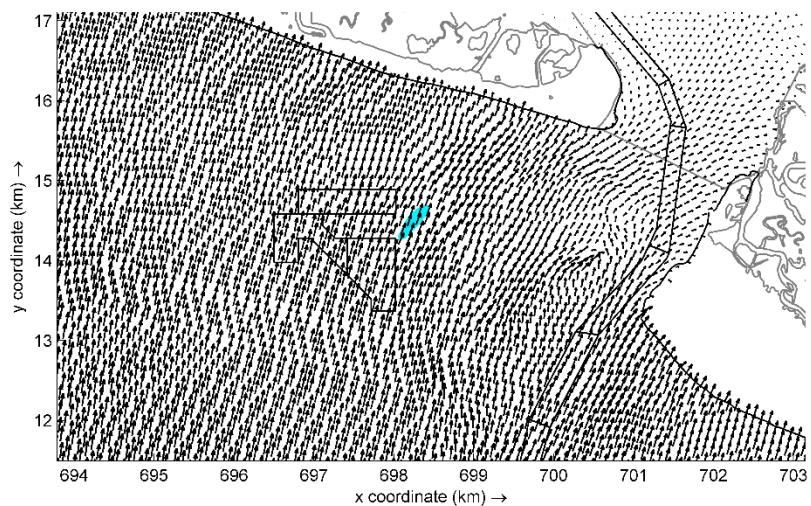
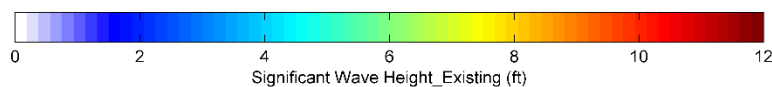
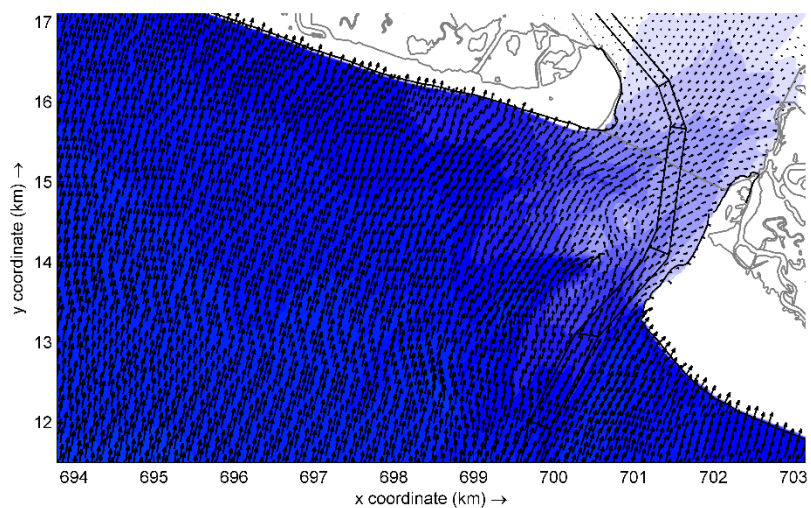
Offshore Wave Case49:

$H_s = 26.8$ ft, $T_p = 14.2$ s, Dir = 170.8 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



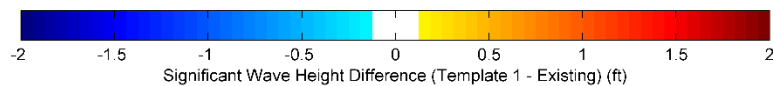
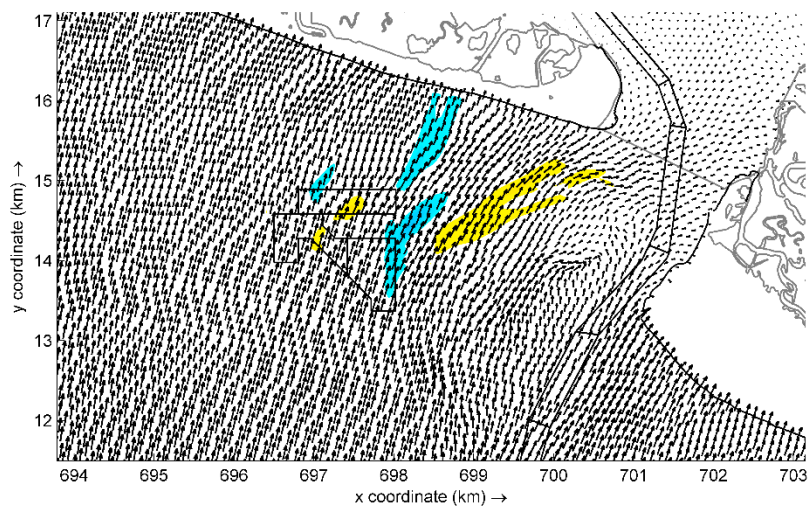
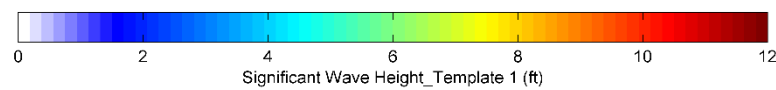
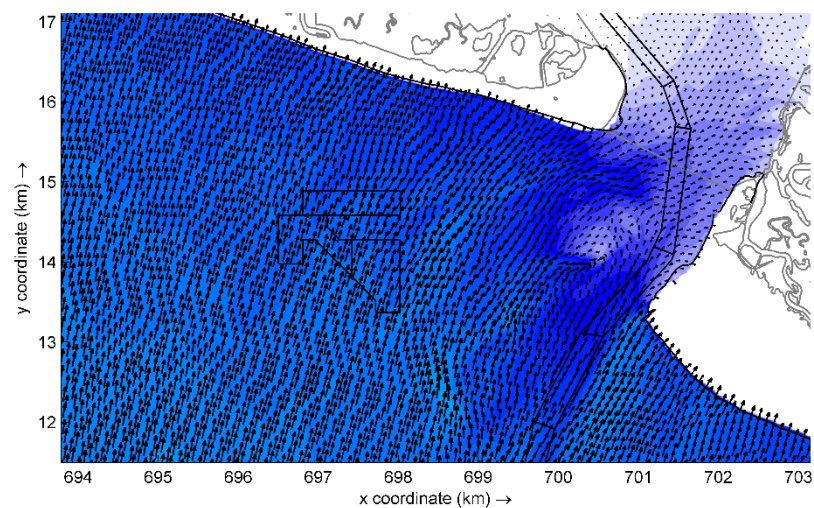
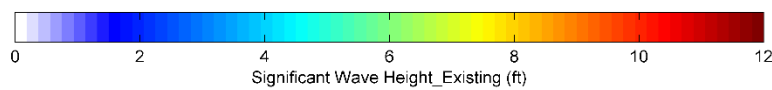
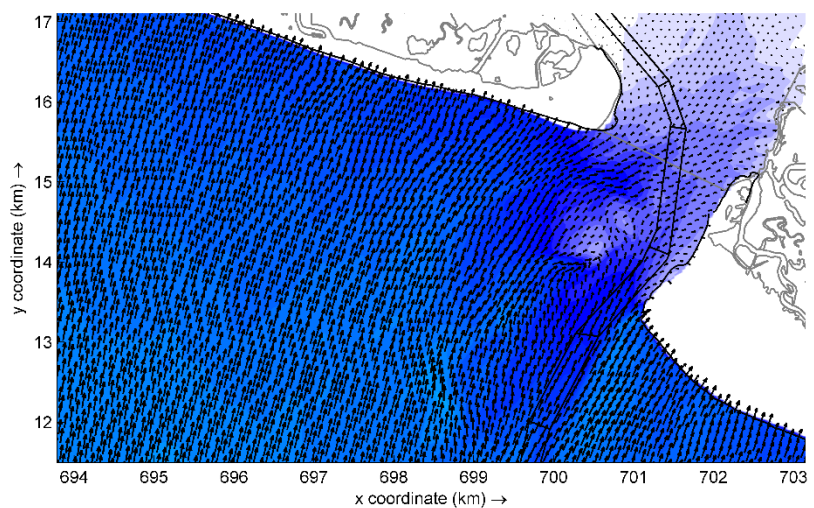
Offshore Wave Case50:

$H_s = 2.7$ ft, $T_p = 5.5$ s, Dir = 187.0 degN

Percent Occurrence = 1.607%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



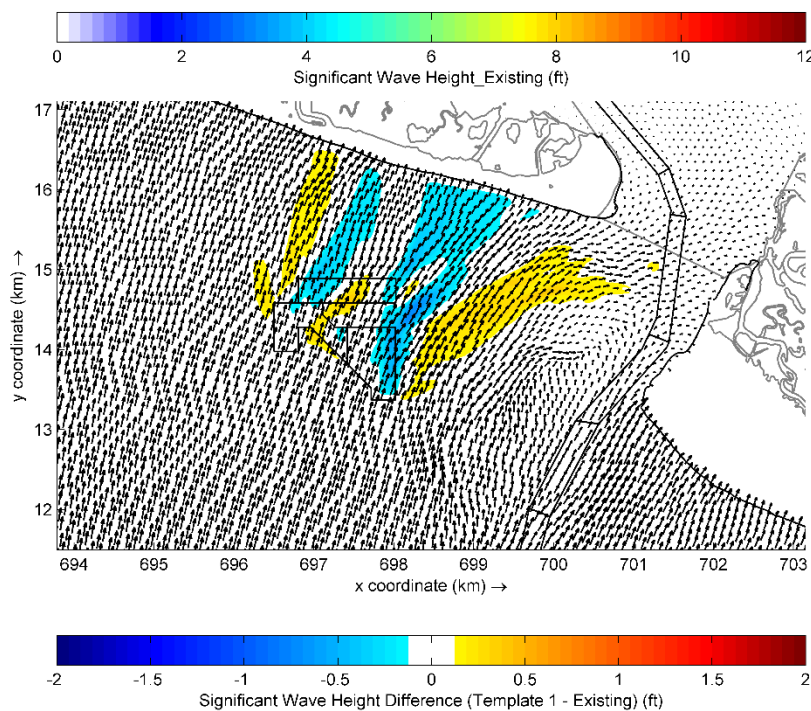
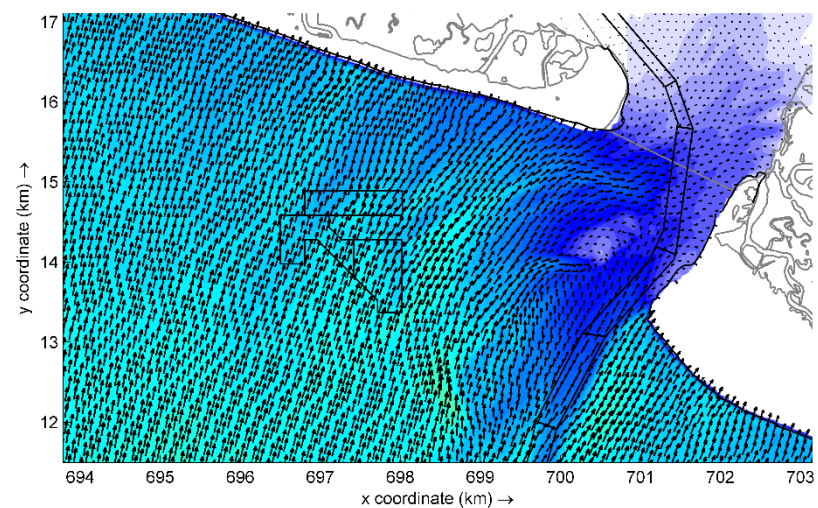
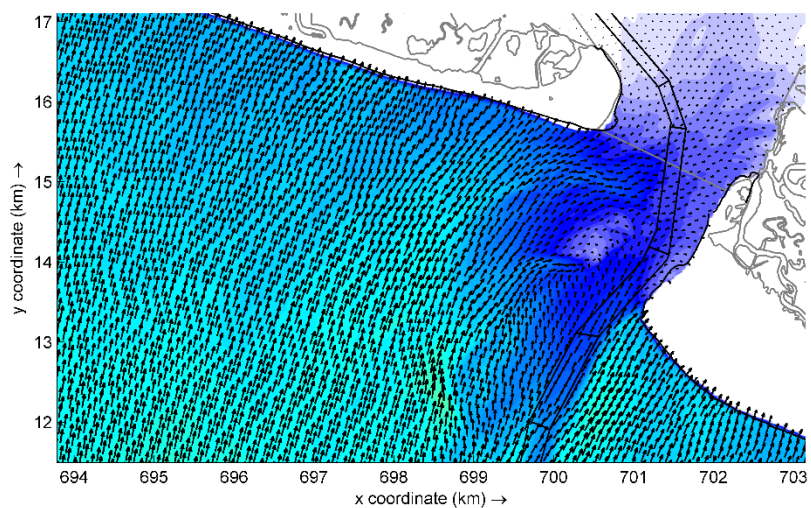
Offshore Wave Case51:

$H_s = 4.5$ ft, $T_p = 6.4$ s, Dir = 187.2 degN

Percent Occurrence = 3.474%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



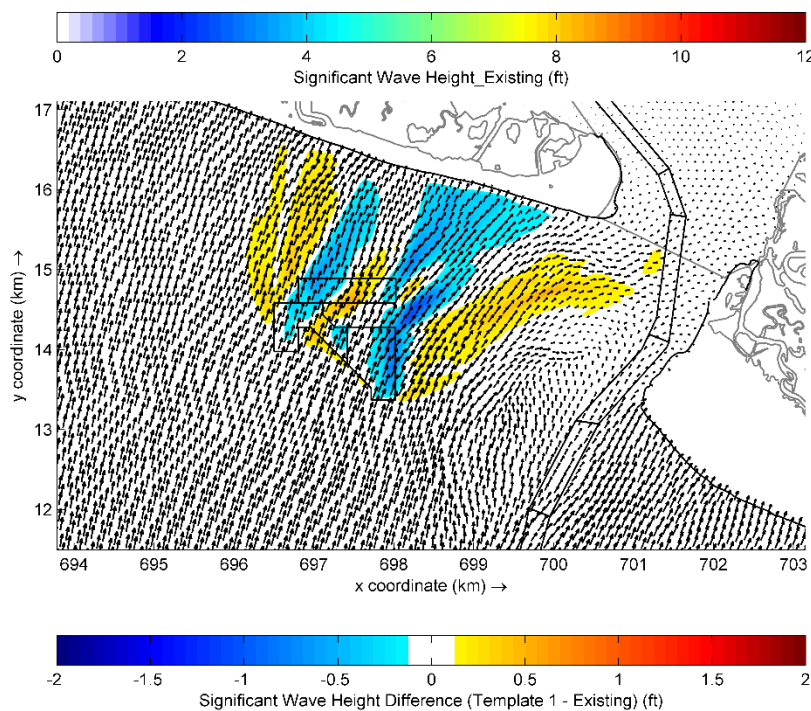
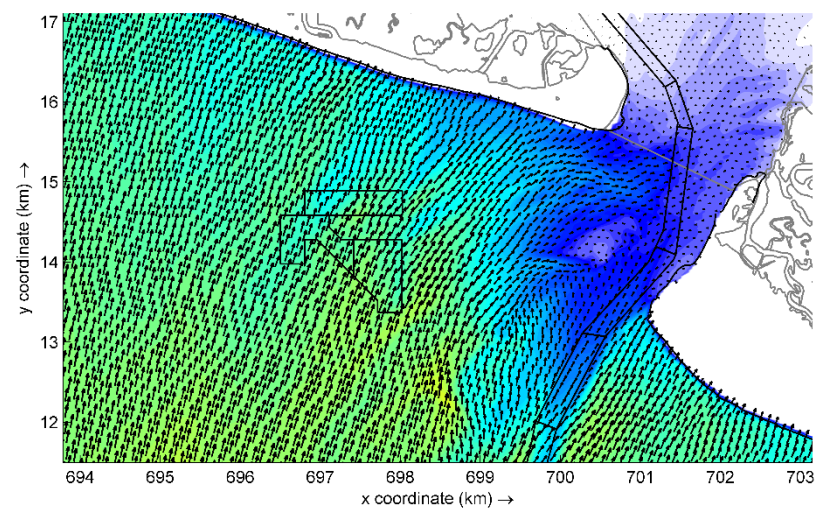
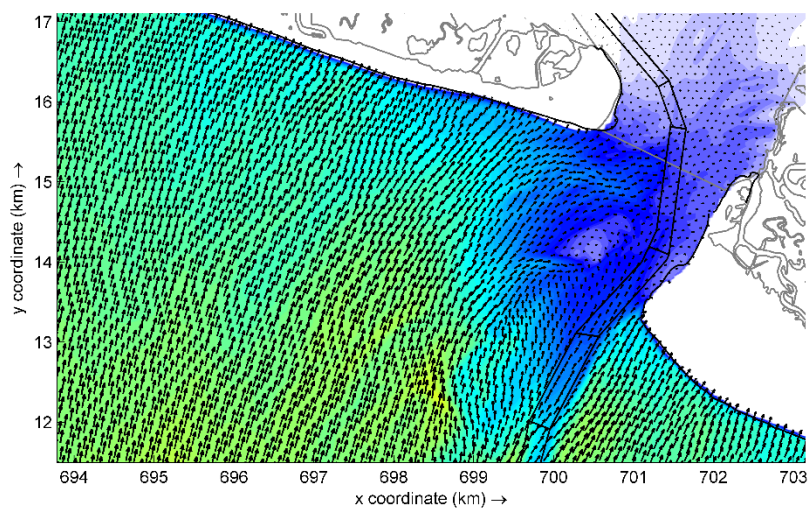
Offshore Wave Case52:

$H_s = 7.9$ ft, $T_p = 8.0$ s, Dir = 186.7 degN

Percent Occurrence = 1.063%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



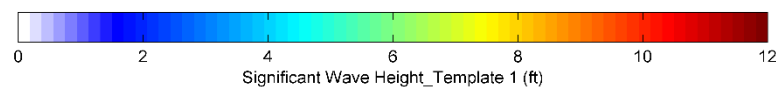
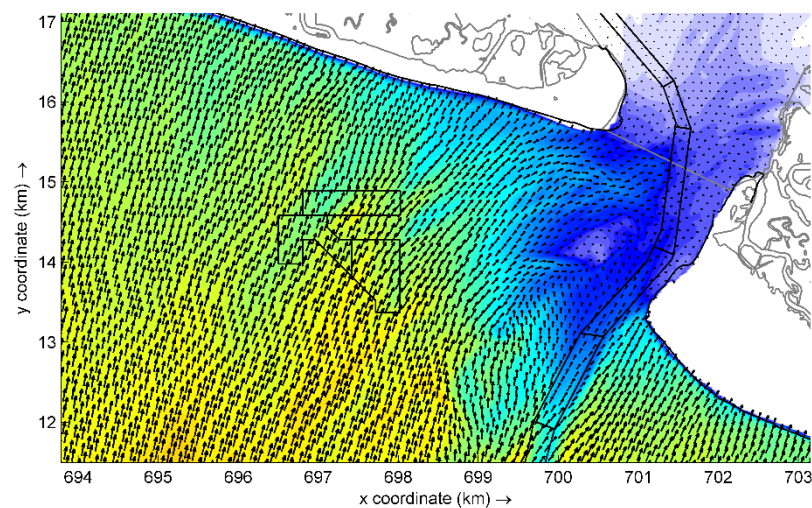
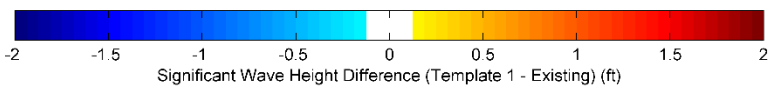
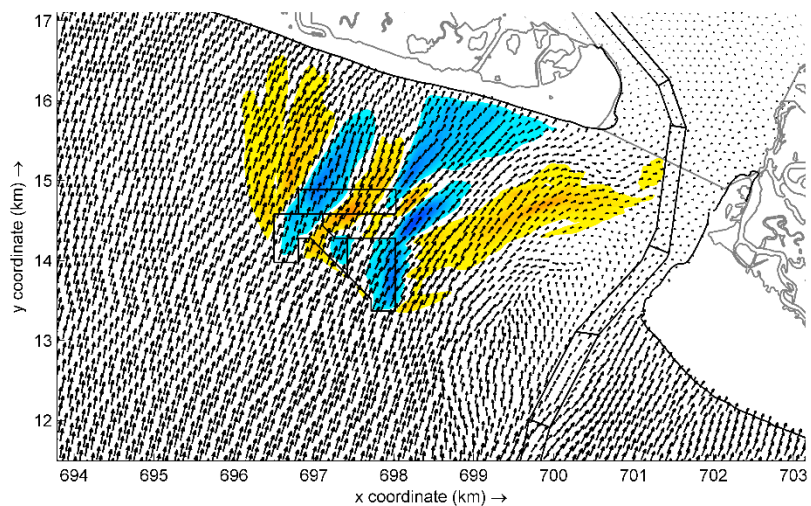
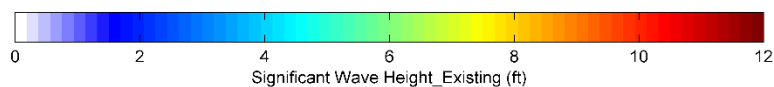
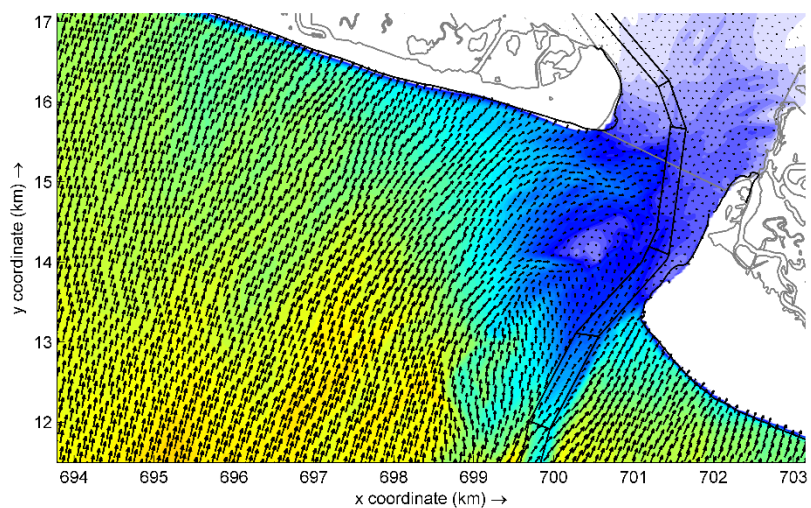
Offshore Wave Case53:

$H_s = 11.2$ ft, $T_p = 9.2$ s, Dir = 186.9 degN

Percent Occurrence = 0.232%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



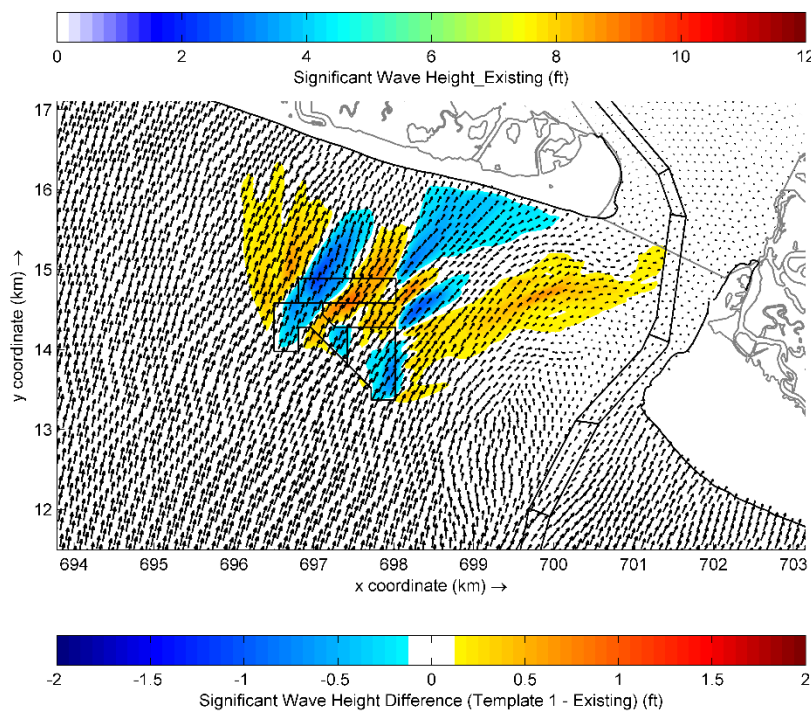
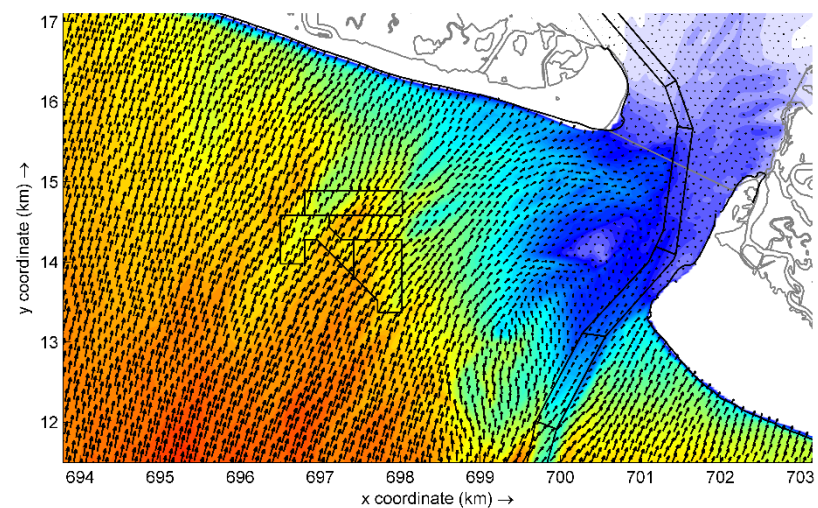
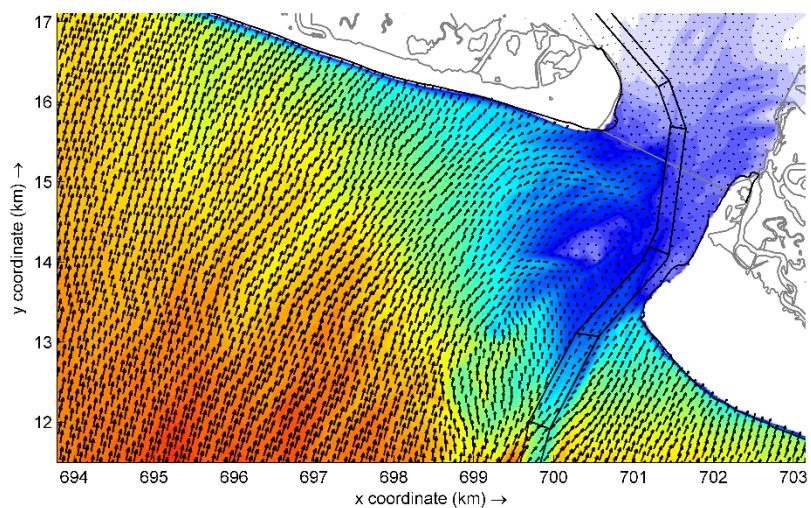
Offshore Wave Case54:

$H_s = 14.2$ ft, $T_p = 10.0$ s, Dir = 186.9 degN

Percent Occurrence = 0.050%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



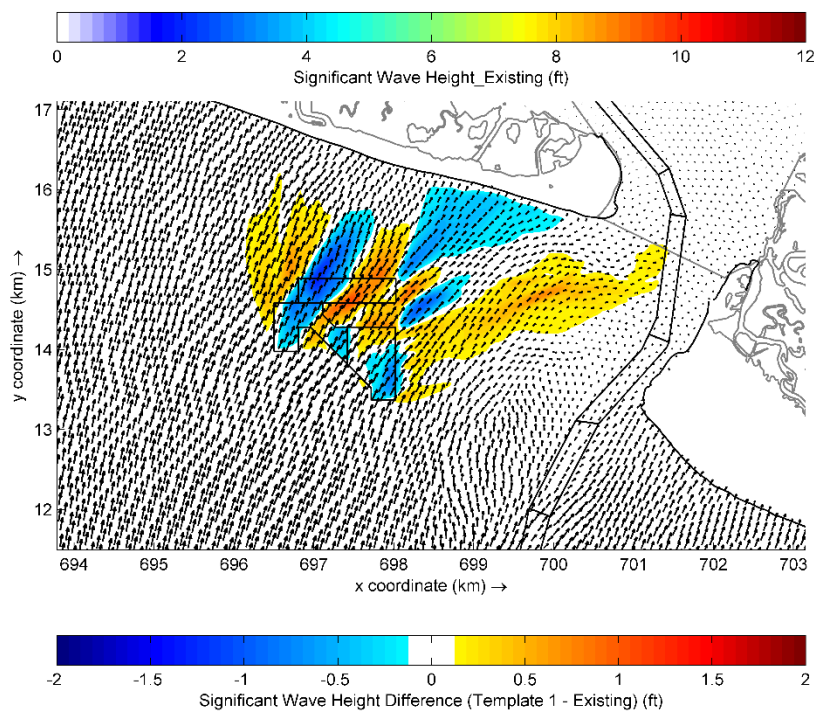
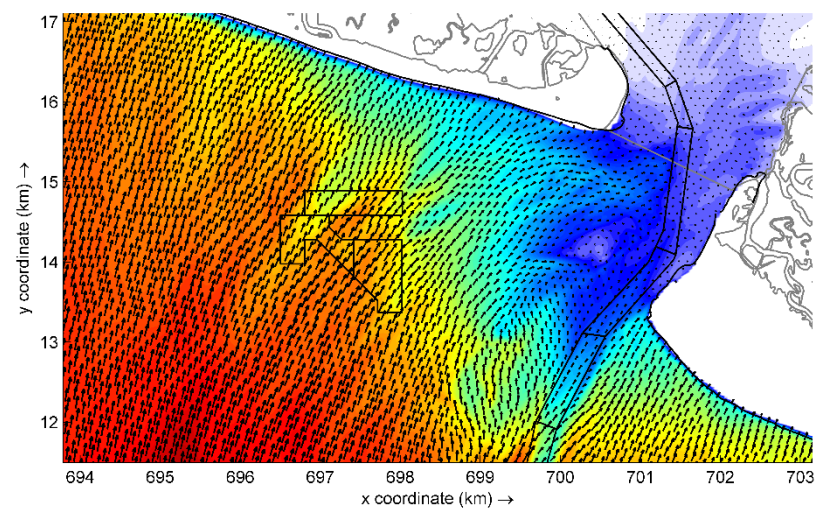
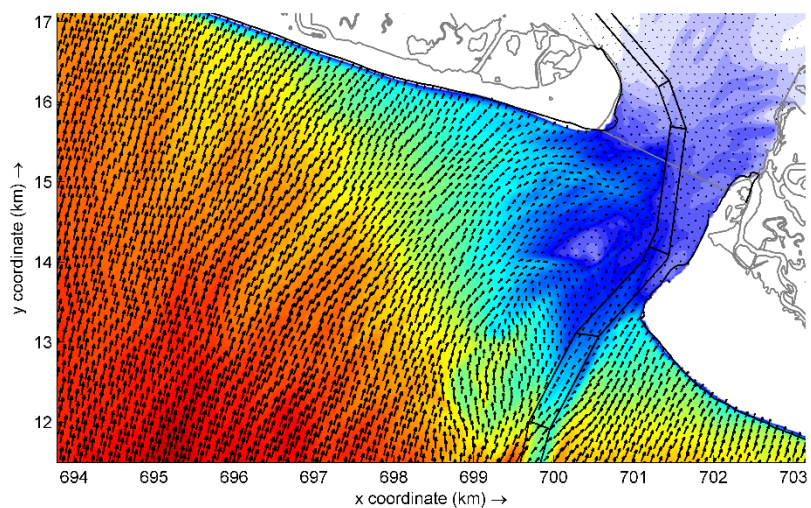
Offshore Wave Case55:

$H_s = 17.6$ ft, $T_p = 11.2$ s, Dir = 186.6 degN

Percent Occurrence = 0.005%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



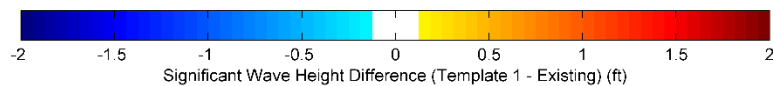
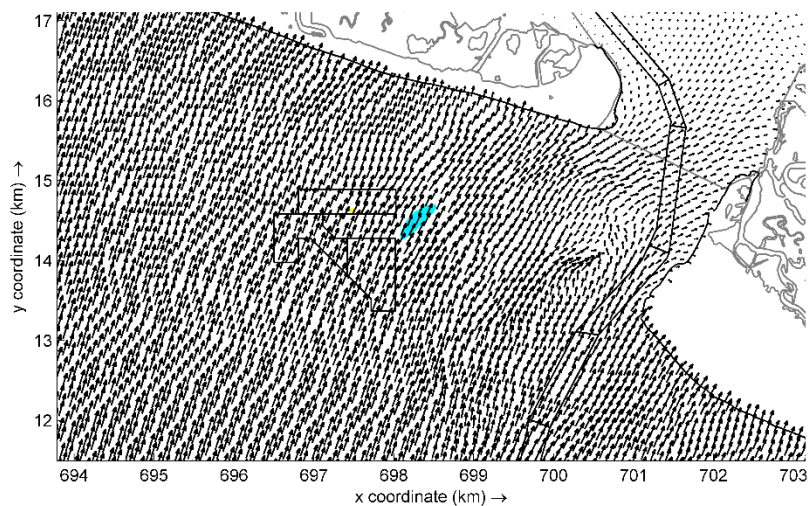
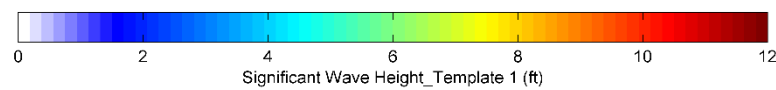
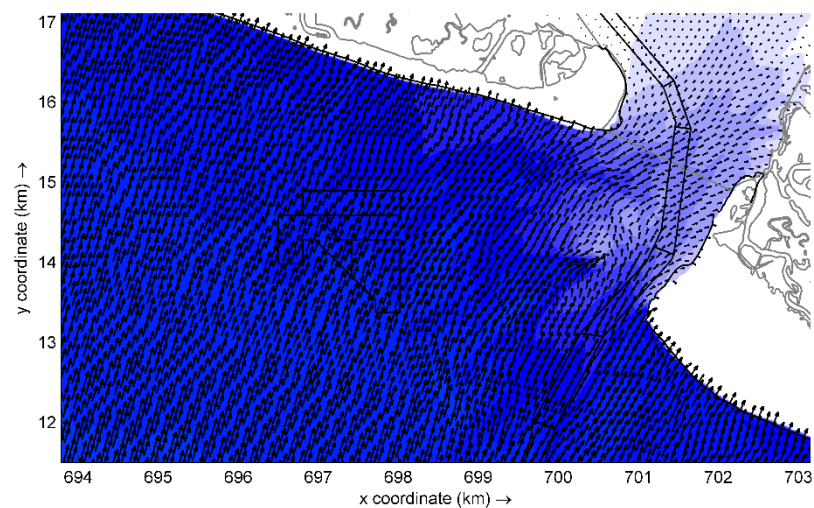
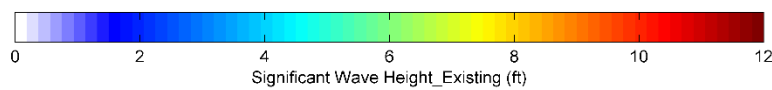
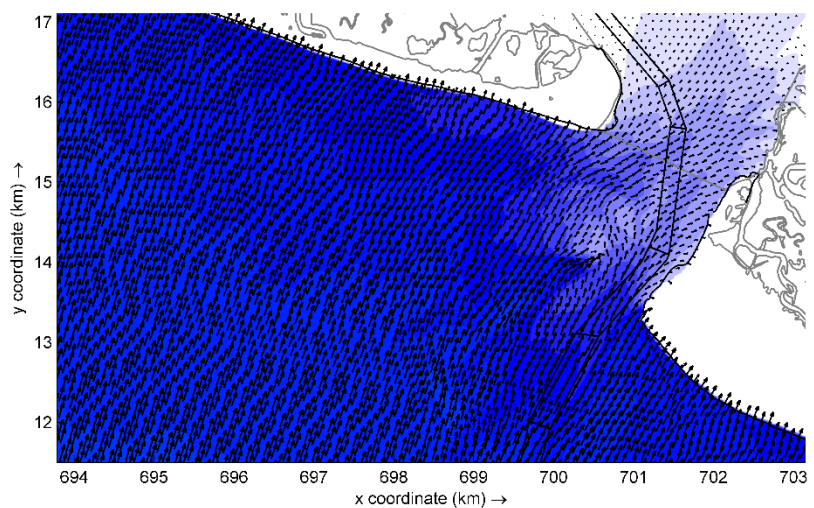
Offshore Wave Case56:

$H_s = 20.2$ ft, $T_p = 12.8$ s, Dir = 183.0 degN

Percent Occurrence = 0.001%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



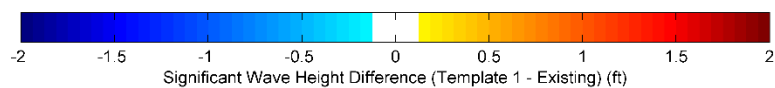
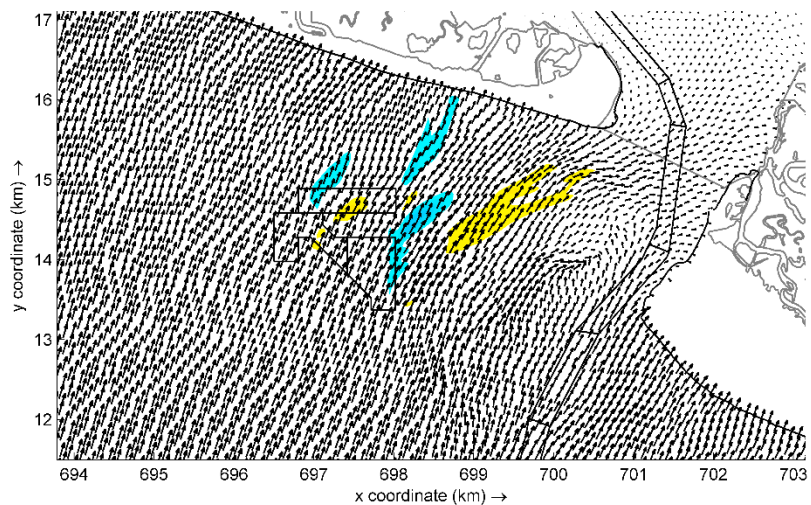
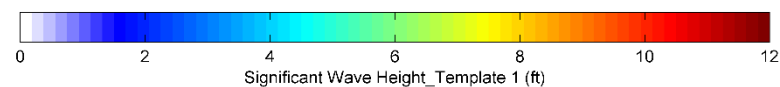
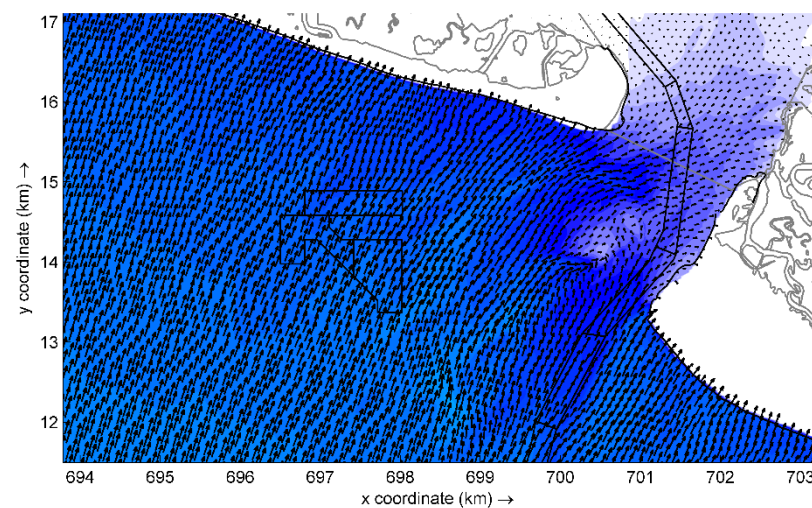
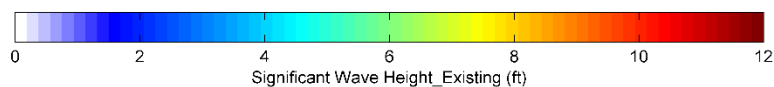
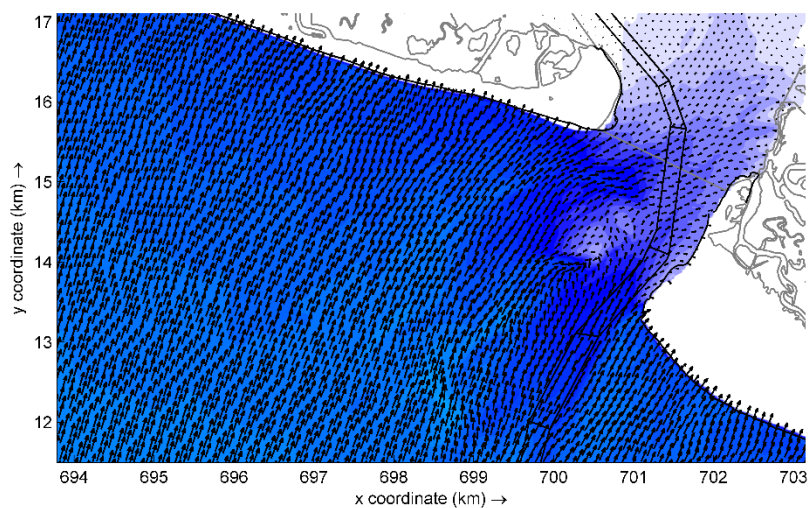
Offshore Wave Case57:

$H_s = 2.7$ ft, $T_p = 5.1$ s, Dir = 202.1 degN

Percent Occurrence = 1.613%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



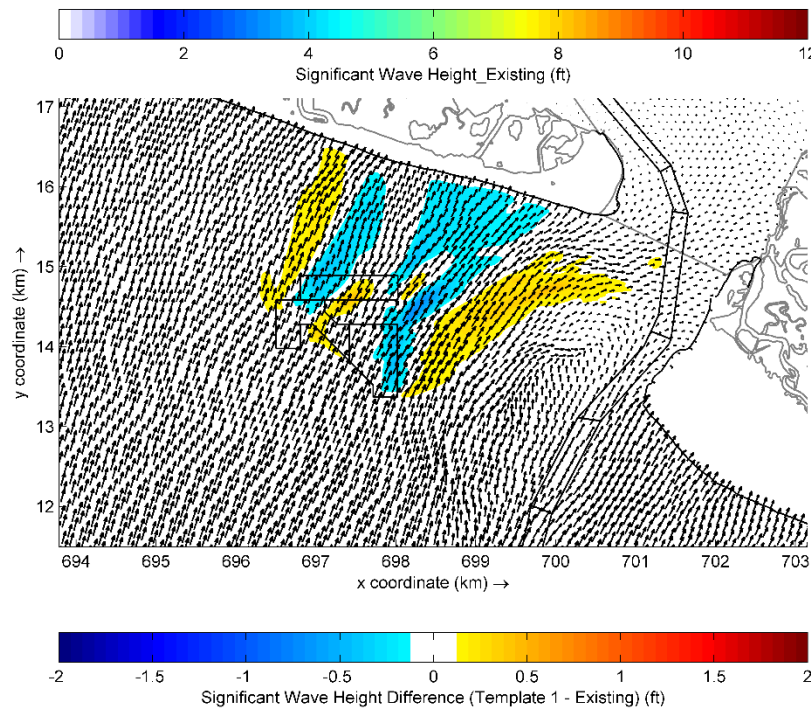
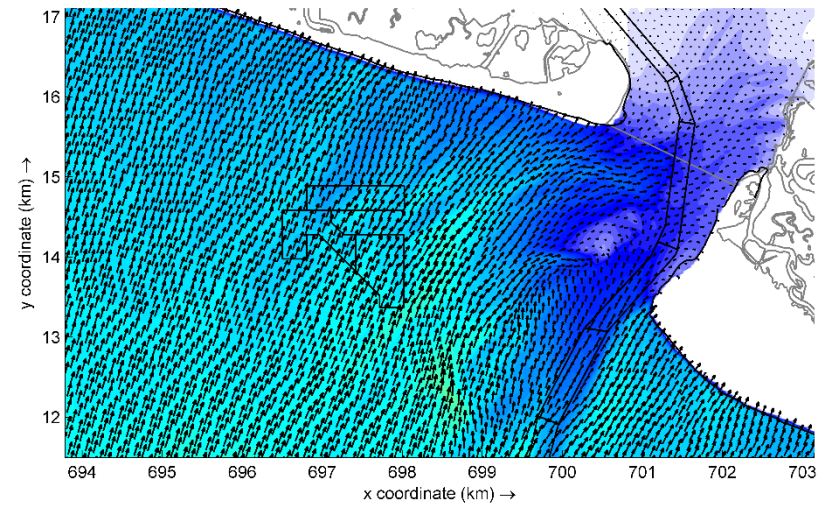
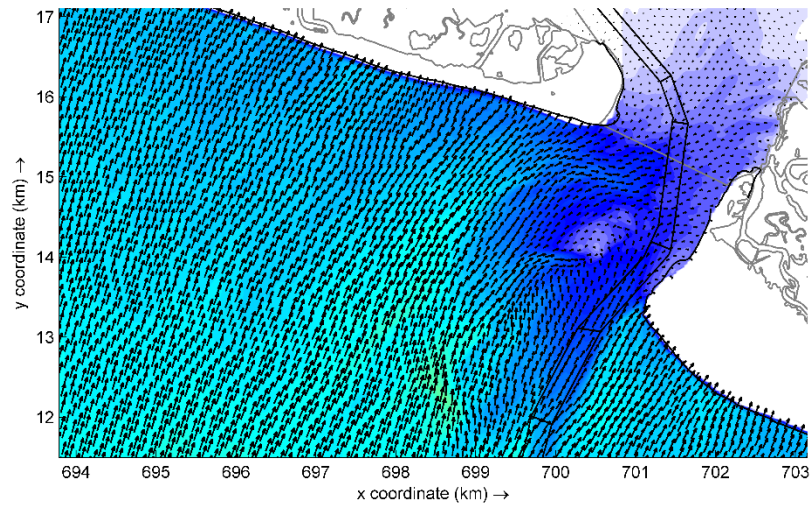
Offshore Wave Case58:

$H_s = 4.5$ ft, $T_p = 6.0$ s, Dir = 202.4 degN

Percent Occurrence = 3.239%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



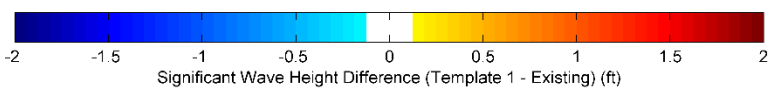
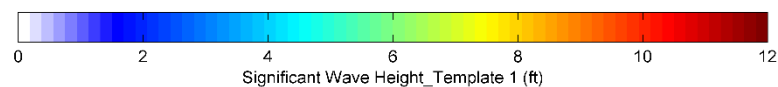
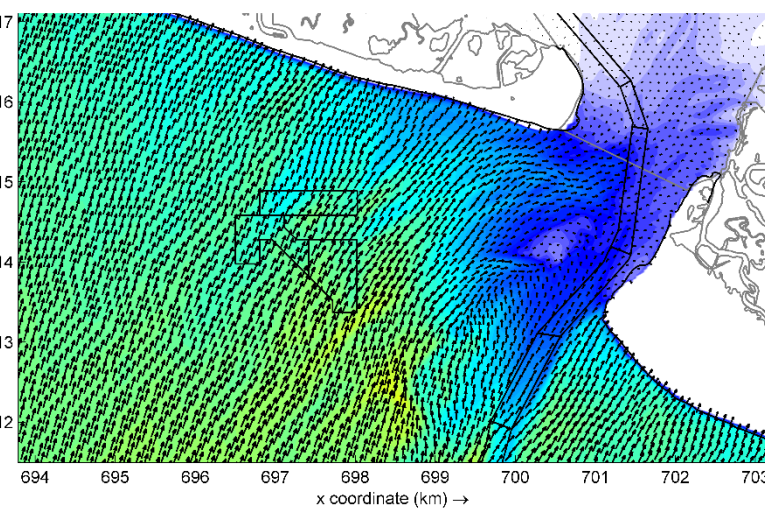
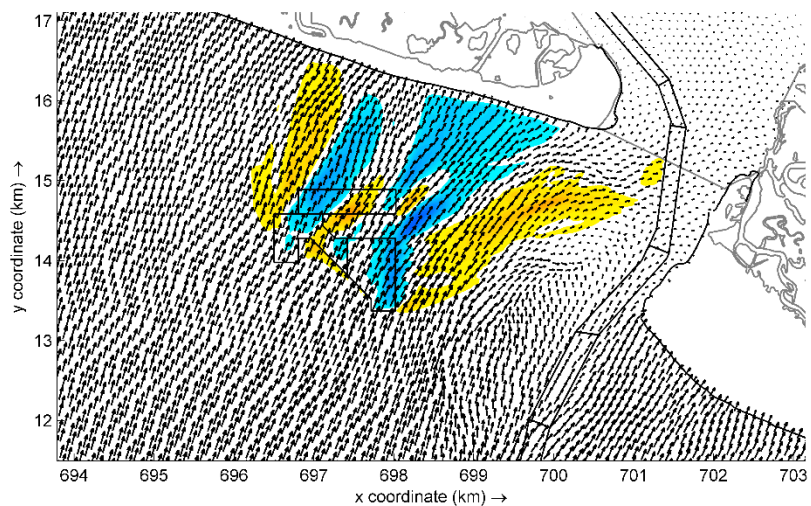
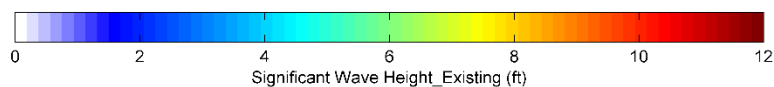
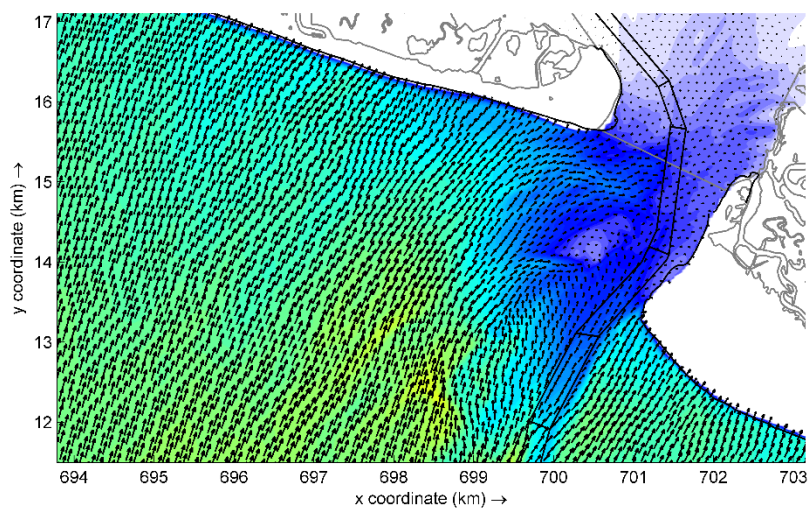
Offshore Wave Case59:

$H_s = 7.8$ ft, $T_p = 7.6$ s, Dir = 201.7 degN

Percent Occurrence = 0.727%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



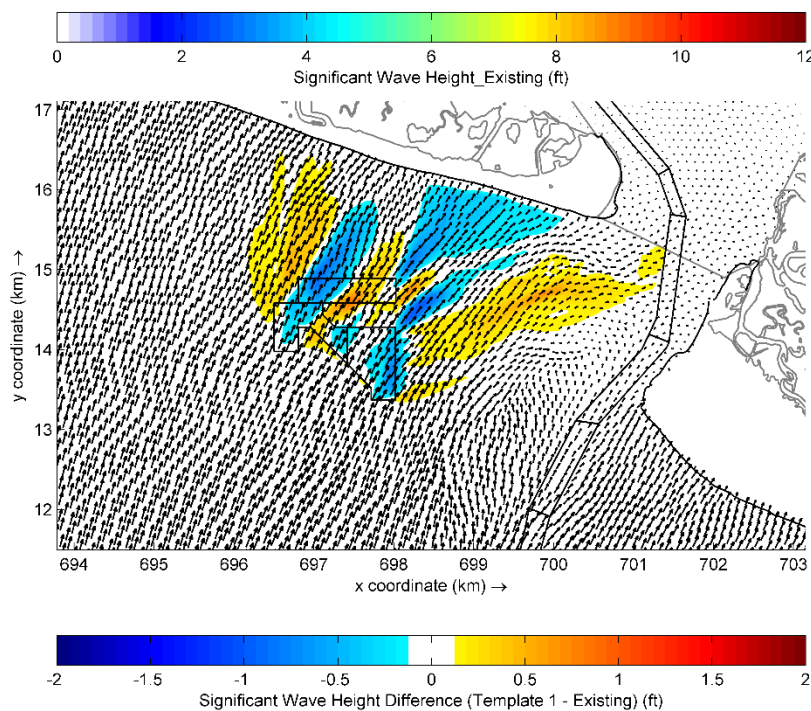
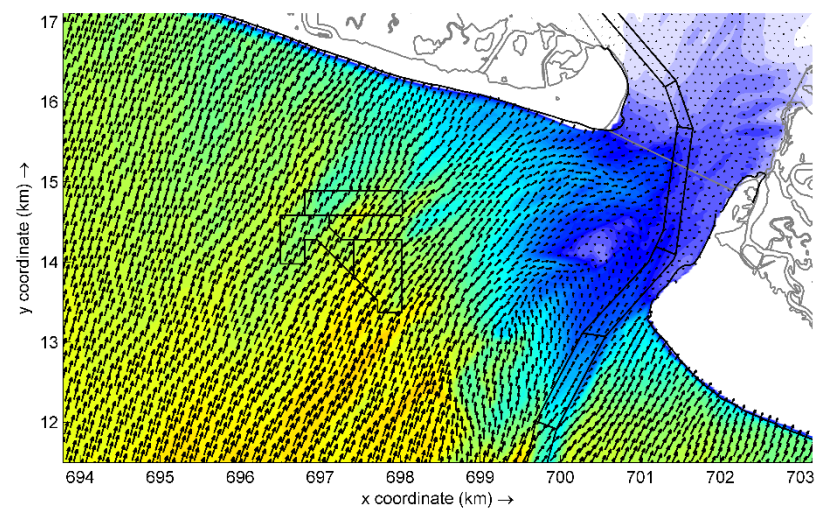
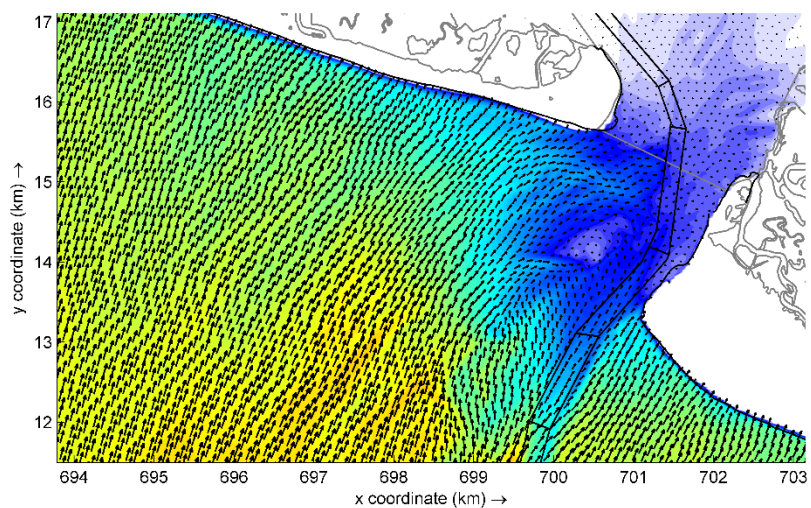
Offshore Wave Case60:

$H_s = 11.1$ ft, $T_p = 8.9$ s, Dir = 201.9 degN

Percent Occurrence = 0.189%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



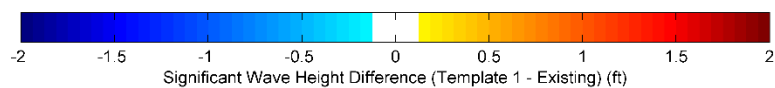
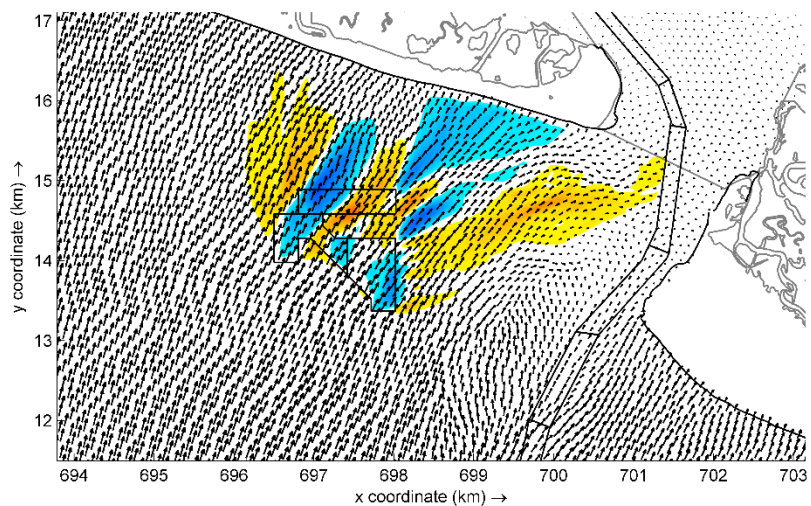
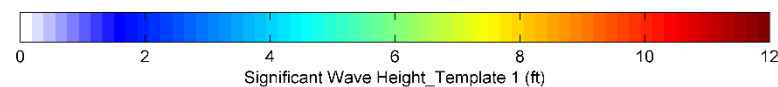
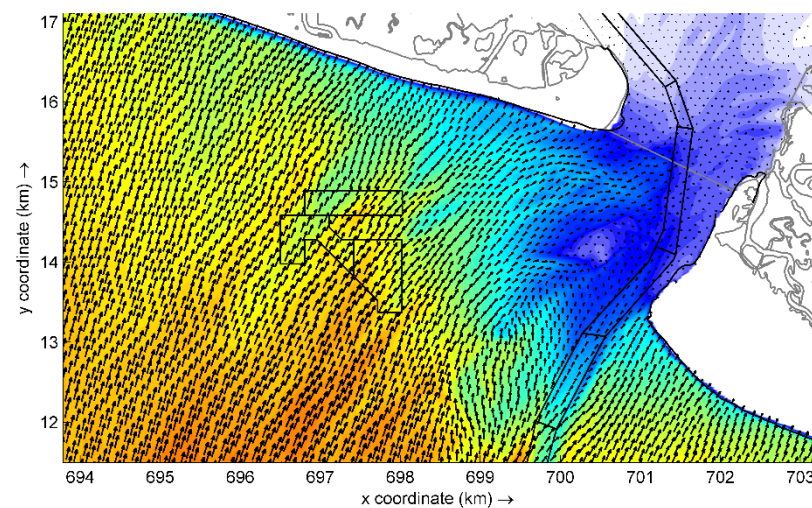
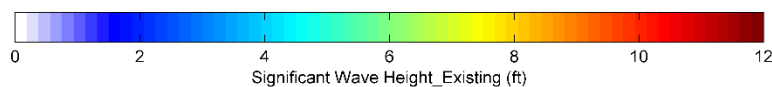
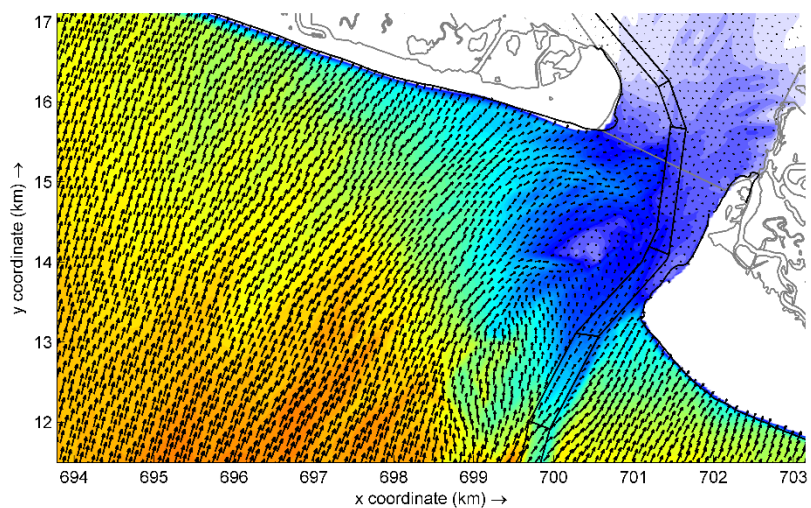
Offshore Wave Case61:

$H_s = 14.3$ ft, $T_p = 9.4$ s, Dir = 201.9 degN

Percent Occurrence = 0.040%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



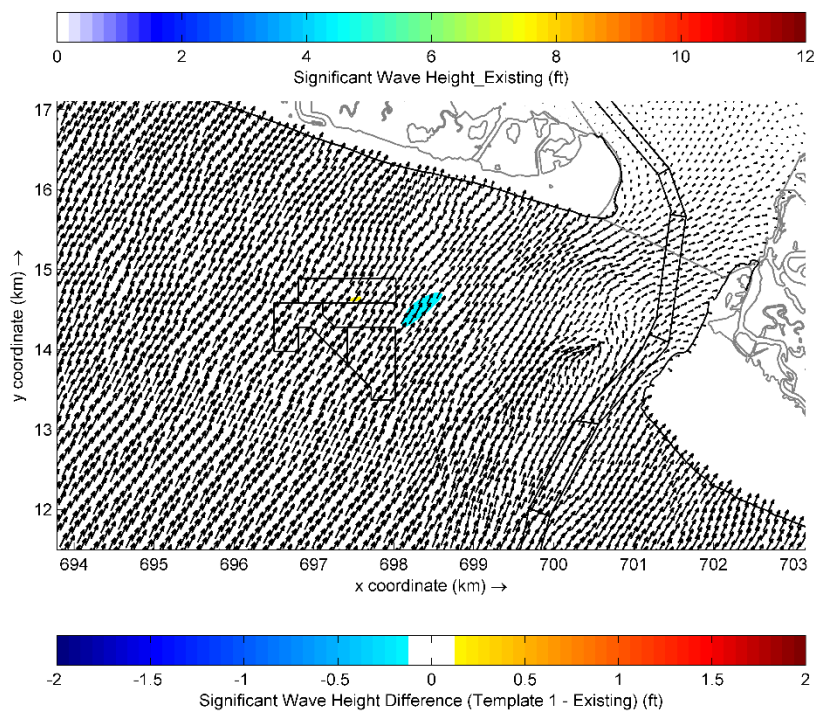
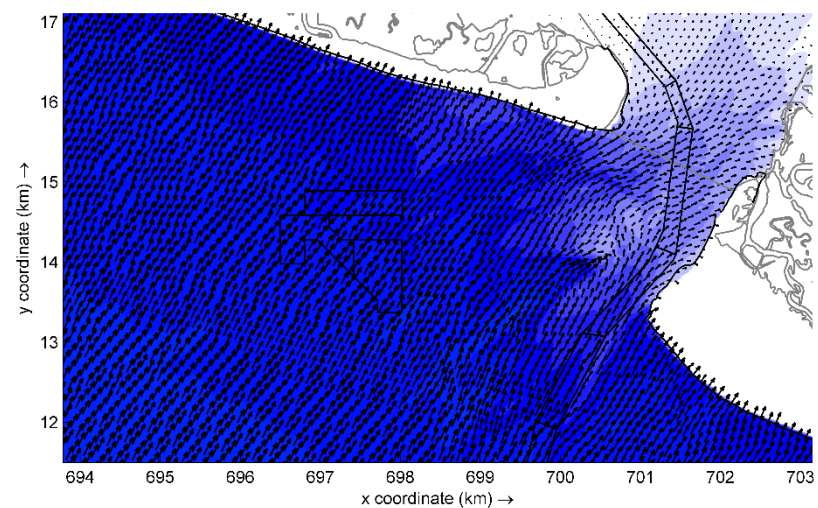
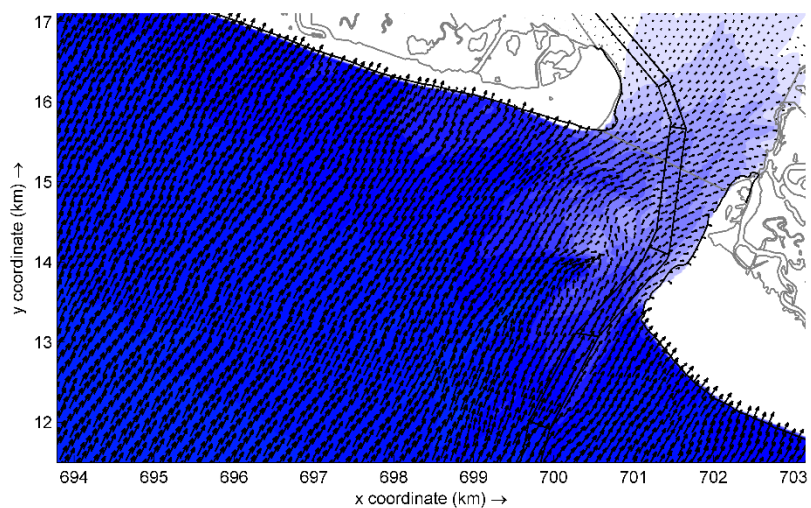
Offshore Wave Case62:

$H_s = 17.0$ ft, $T_p = 10.0$ s, Dir = 199.6 degN

Percent Occurrence = 0.003%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



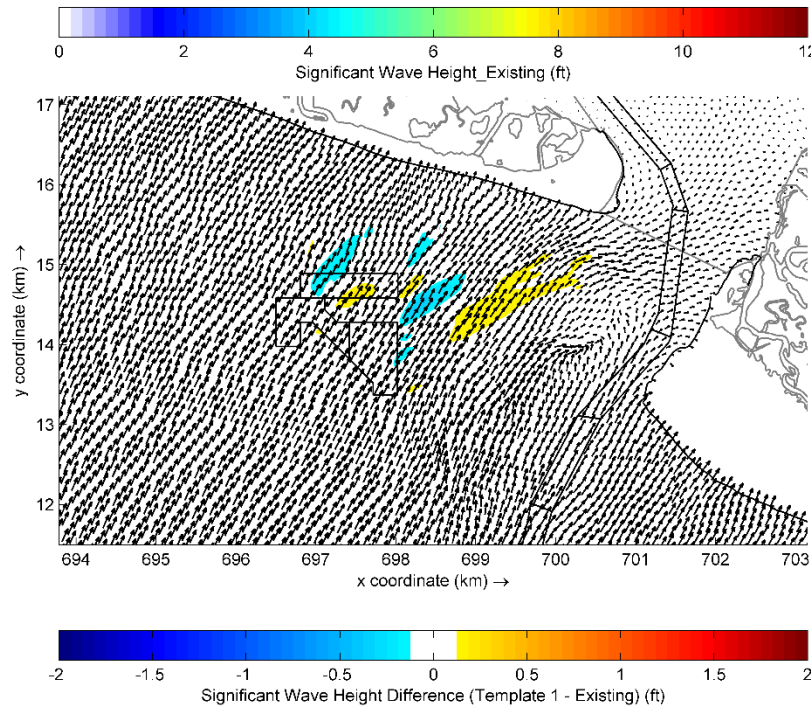
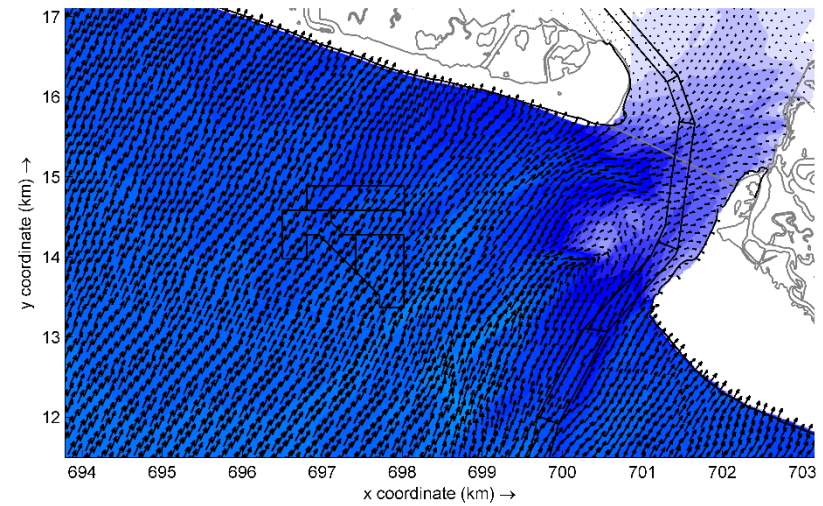
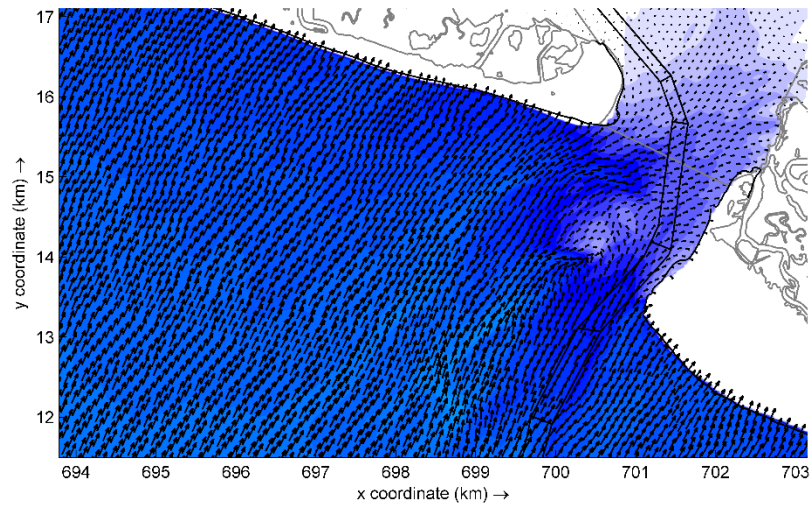
Offshore Wave Case63:

$H_s = 2.7$ ft, $T_p = 4.9$ s, Dir = 216.8 degN

Percent Occurrence = 1.319%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



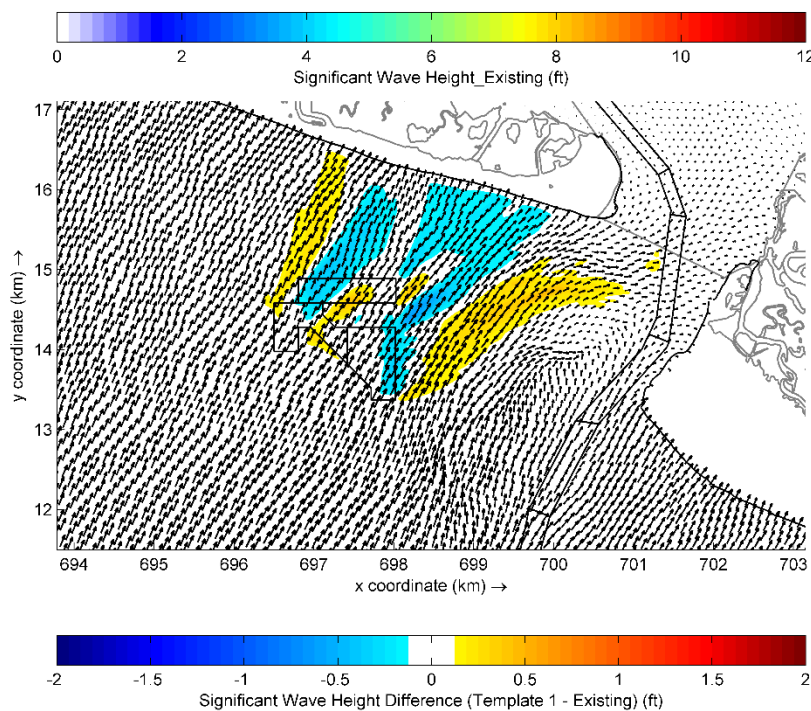
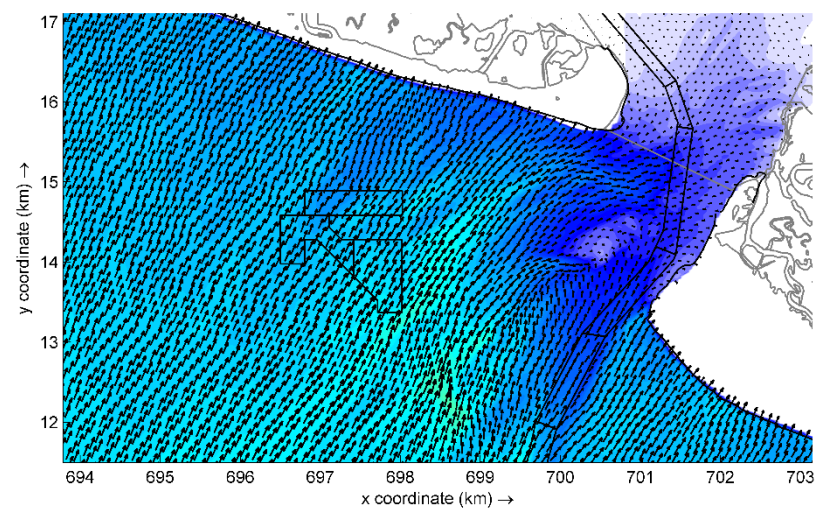
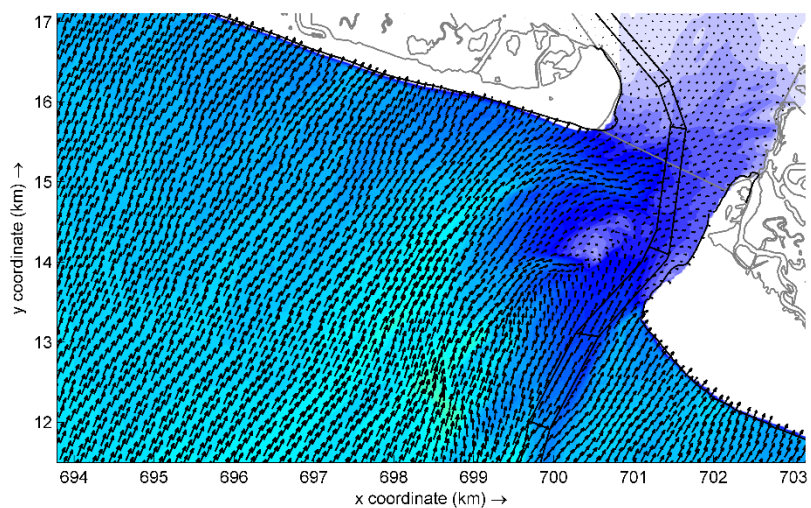
Offshore Wave Case64:

$H_s = 4.6$ ft, $T_p = 5.8$ s, Dir = 217.1 degN

Percent Occurrence = 3.141%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



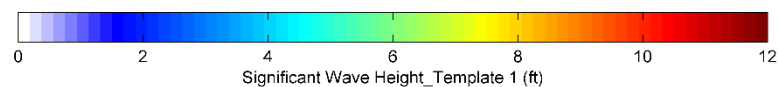
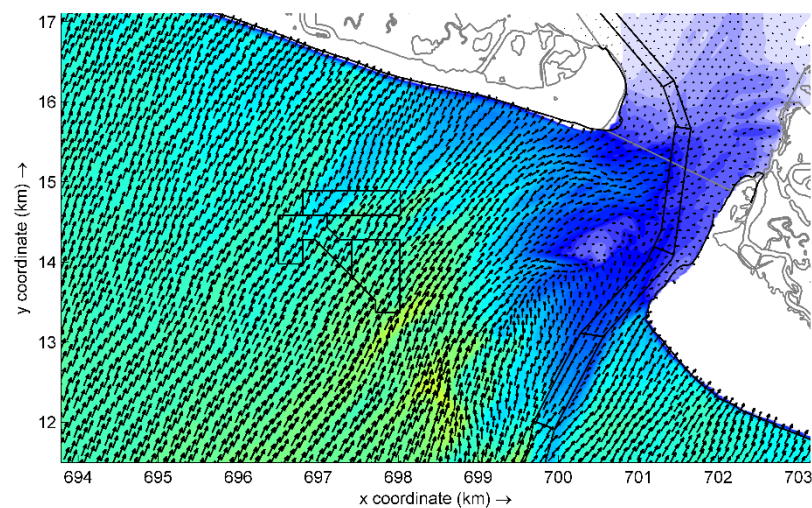
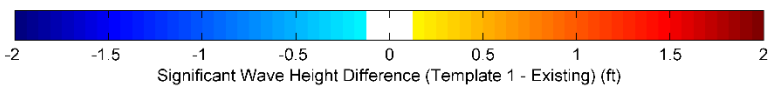
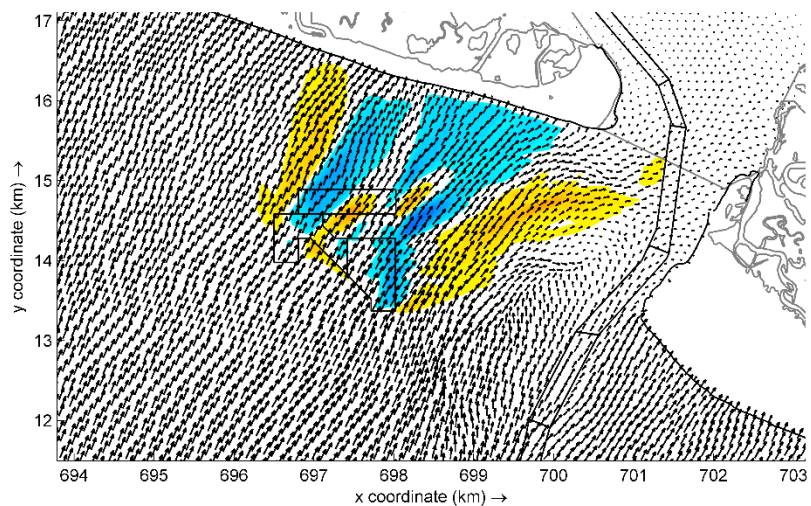
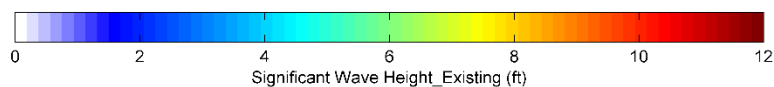
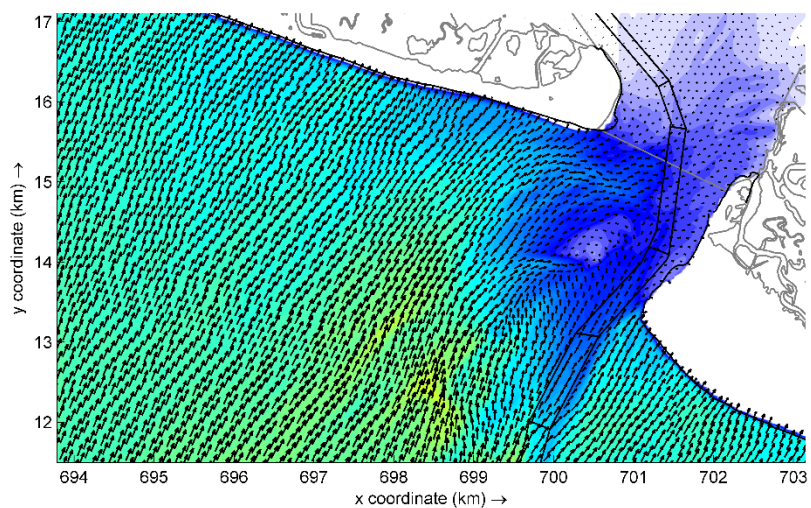
Offshore Wave Case65:

$H_s = 7.7$ ft, $T_p = 7.2$ s, Dir = 217.4 degN

Percent Occurrence = 0.666%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



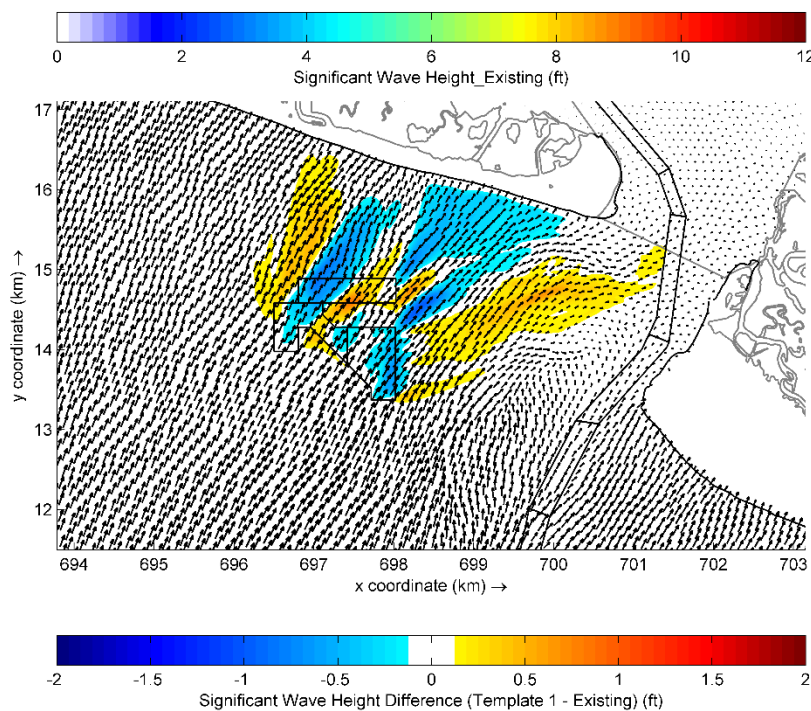
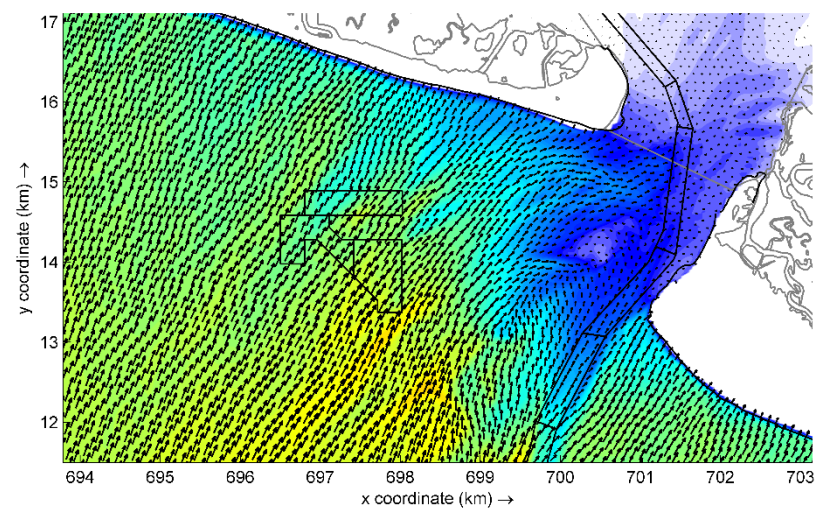
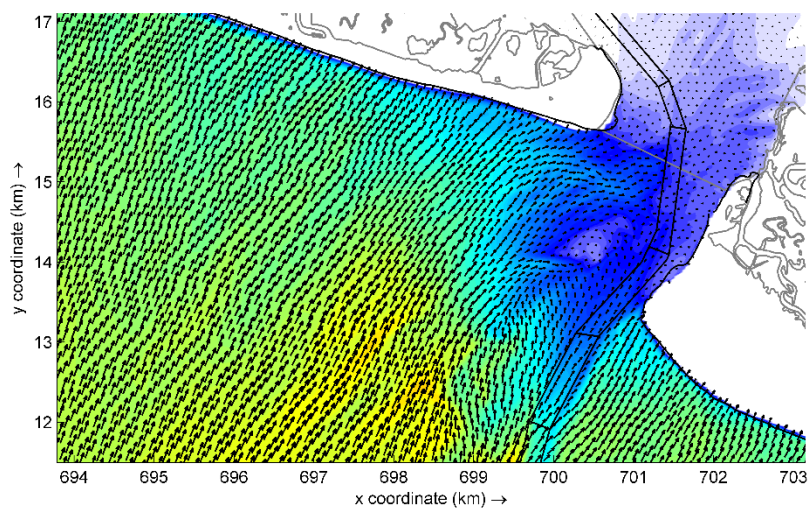
Offshore Wave Case66:

$H_s = 11.0$ ft, $T_p = 8.3$ s, Dir = 217.9 degN

Percent Occurrence = 0.115%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



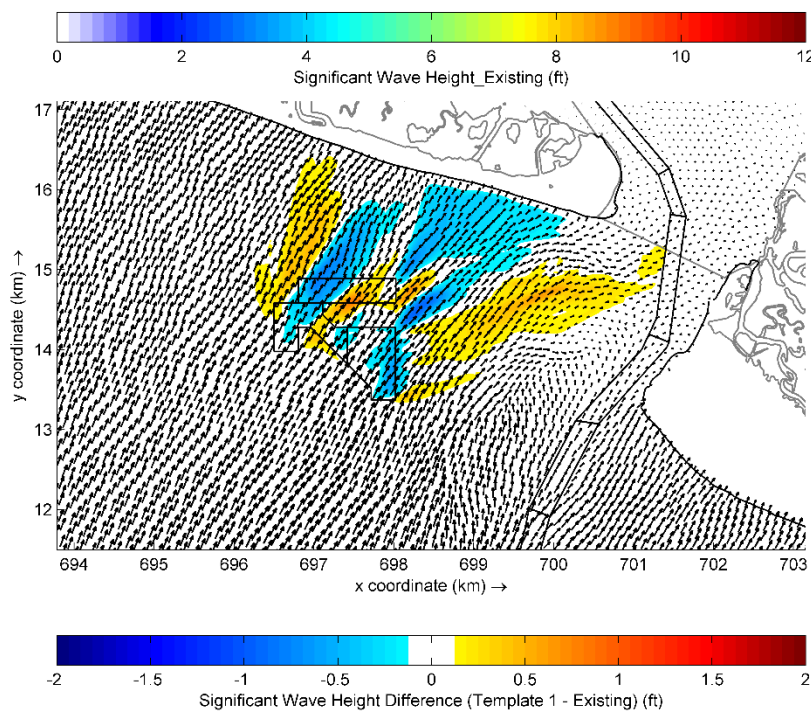
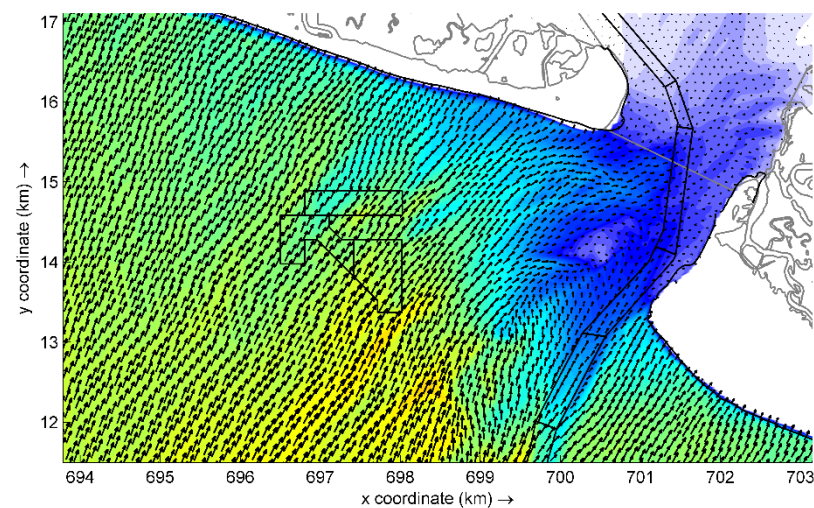
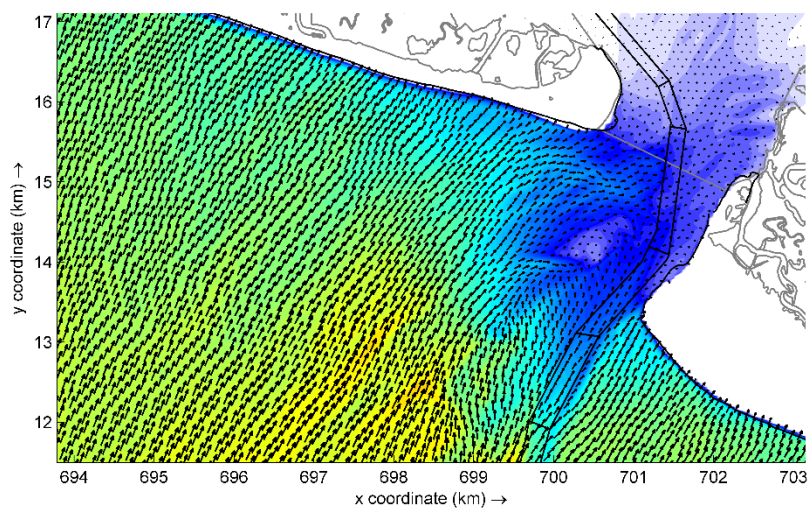
Offshore Wave Case67:

$H_s = 14.2$ ft, $T_p = 9.2$ s, Dir = 215.3 degN

Percent Occurrence = 0.015%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



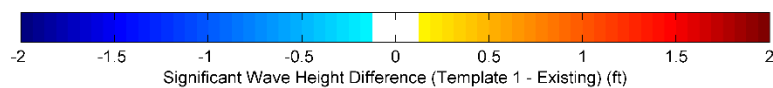
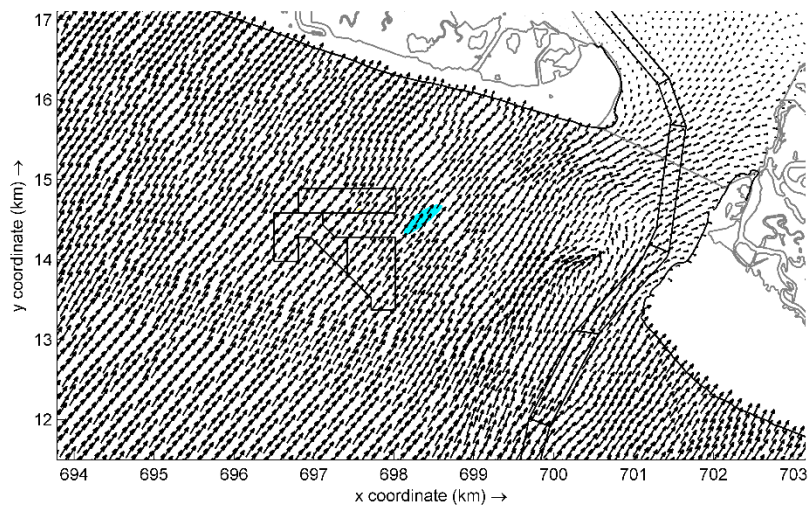
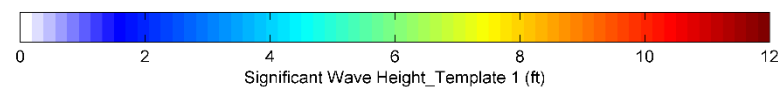
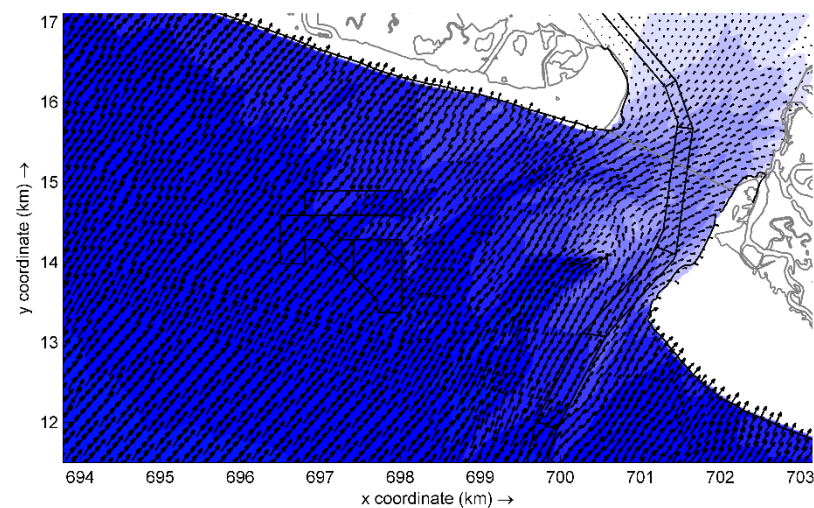
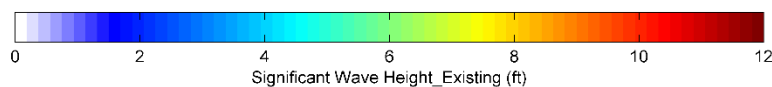
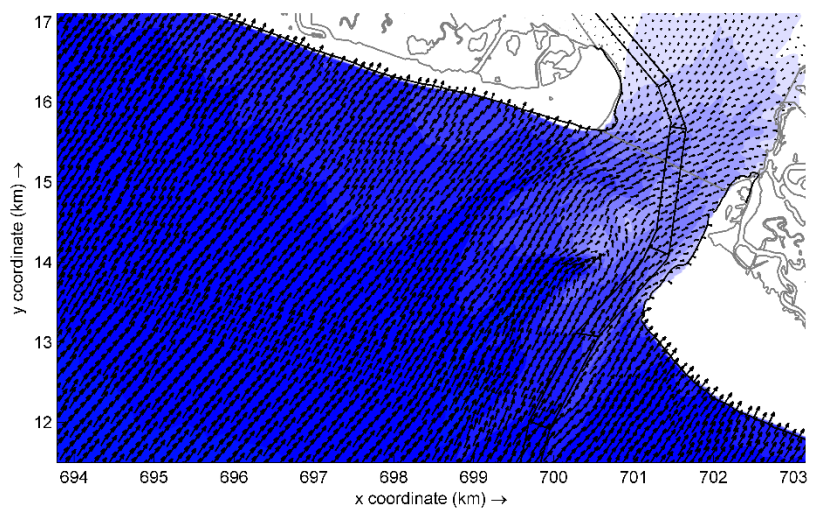
Offshore Wave Case68:

$H_s = 16.8$ ft, $T_p = 8.3$ s, Dir = 219.7 degN

Percent Occurrence = 0.001%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



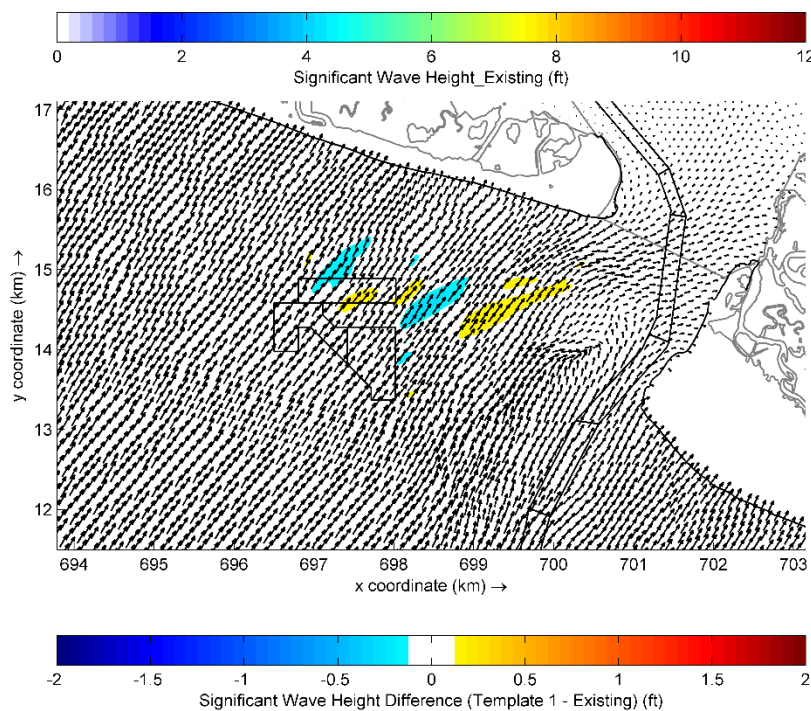
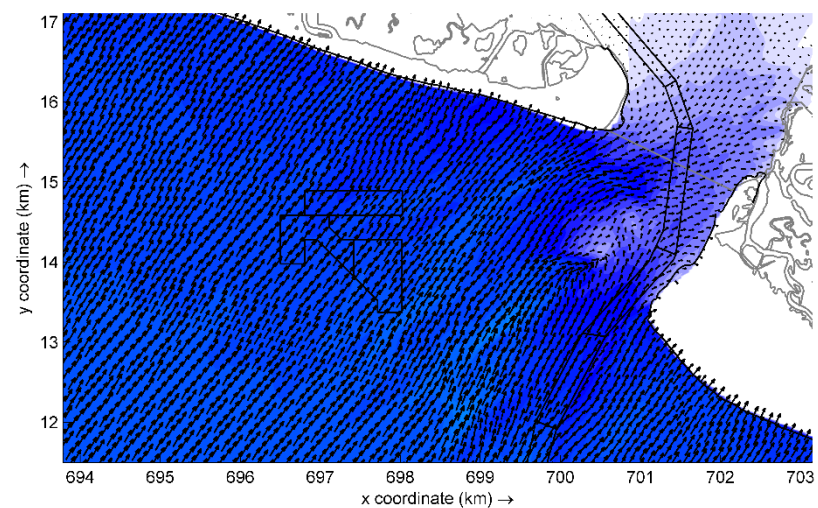
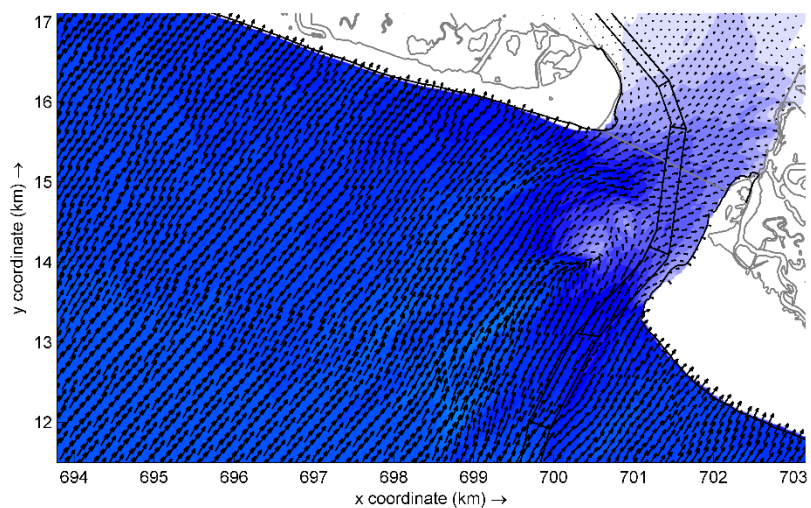
Offshore Wave Case69:

$H_s = 2.6$ ft, $T_p = 4.6$ s, Dir = 231.3 degN

Percent Occurrence = 0.688%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



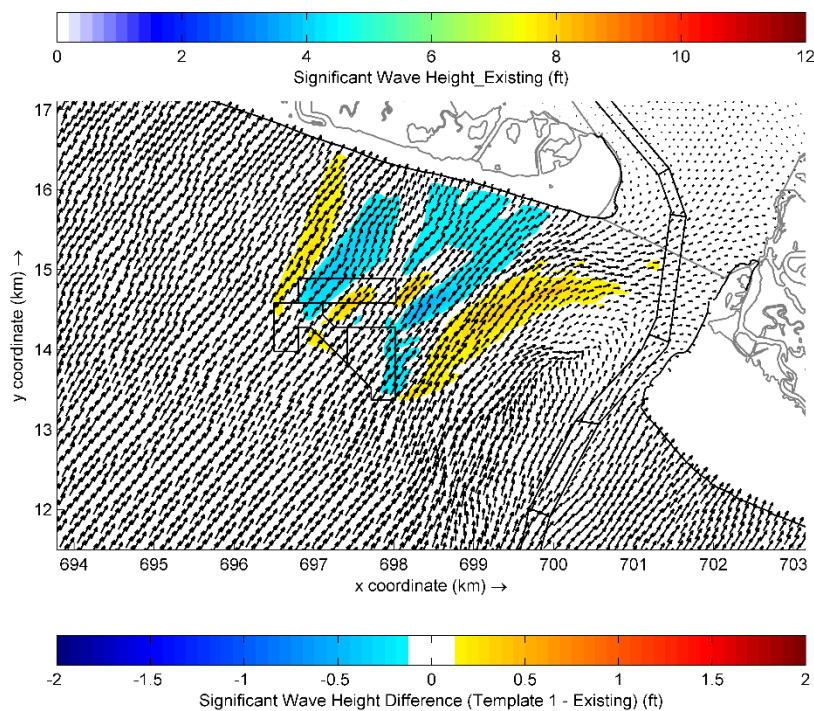
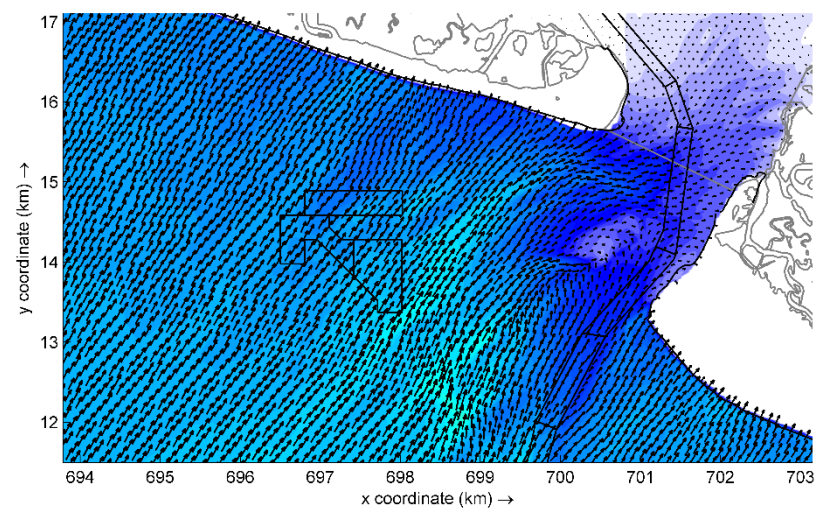
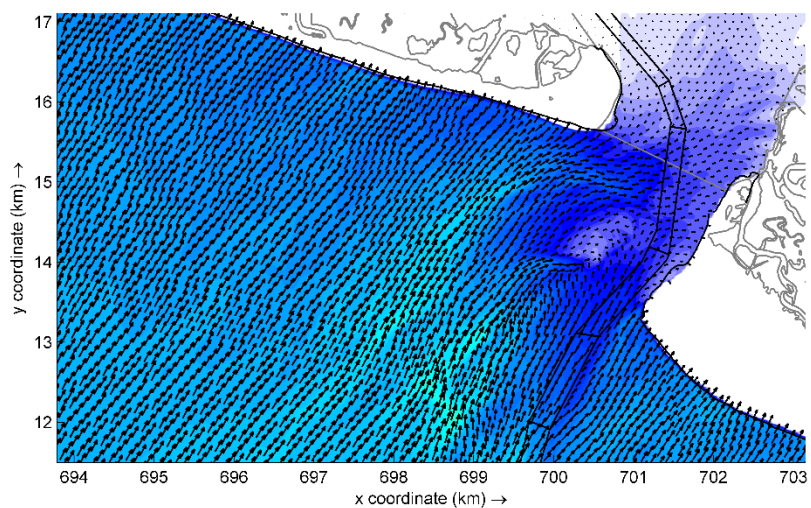
Offshore Wave Case70:

$H_s = 4.6$ ft, $T_p = 5.5$ s, Dir = 230.8 degN

Percent Occurrence = 1.609%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



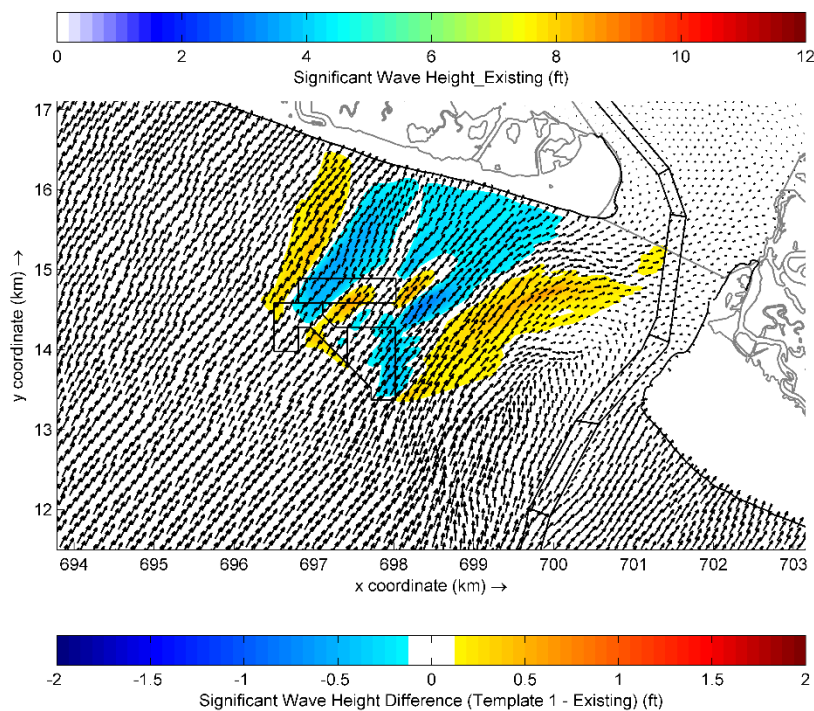
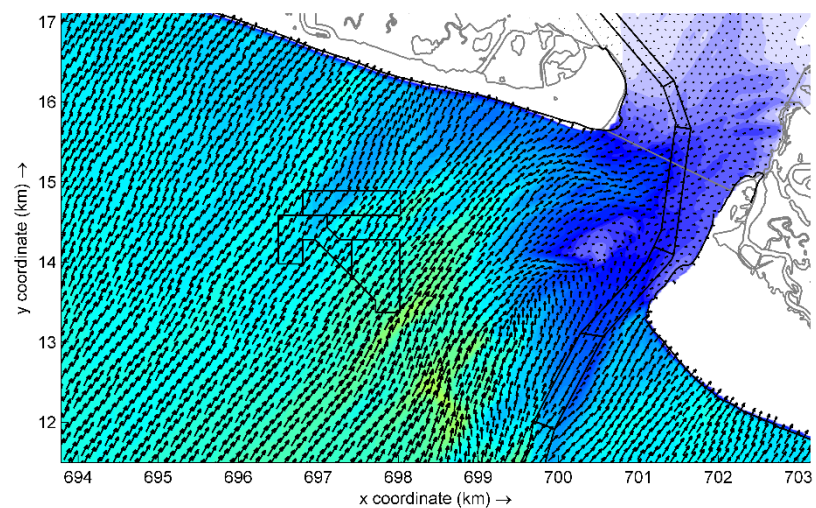
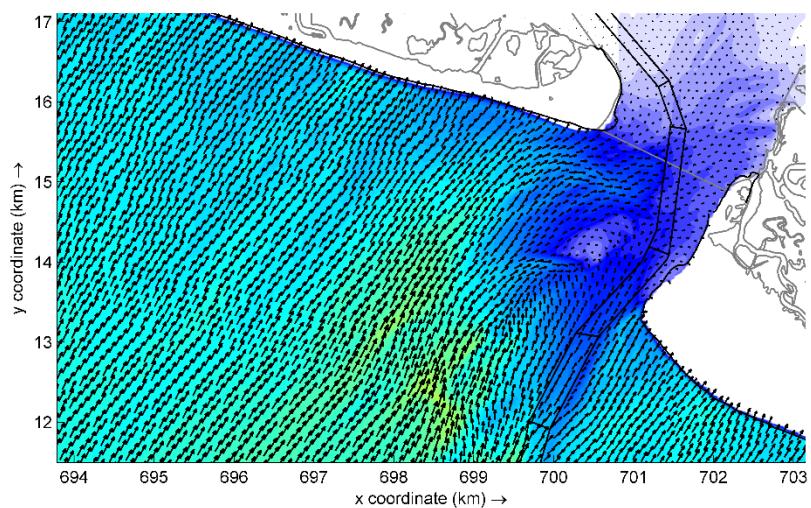
Offshore Wave Case71:

$H_s = 7.8$ ft, $T_p = 7.0$ s, Dir = 231.2 degN

Percent Occurrence = 0.367%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



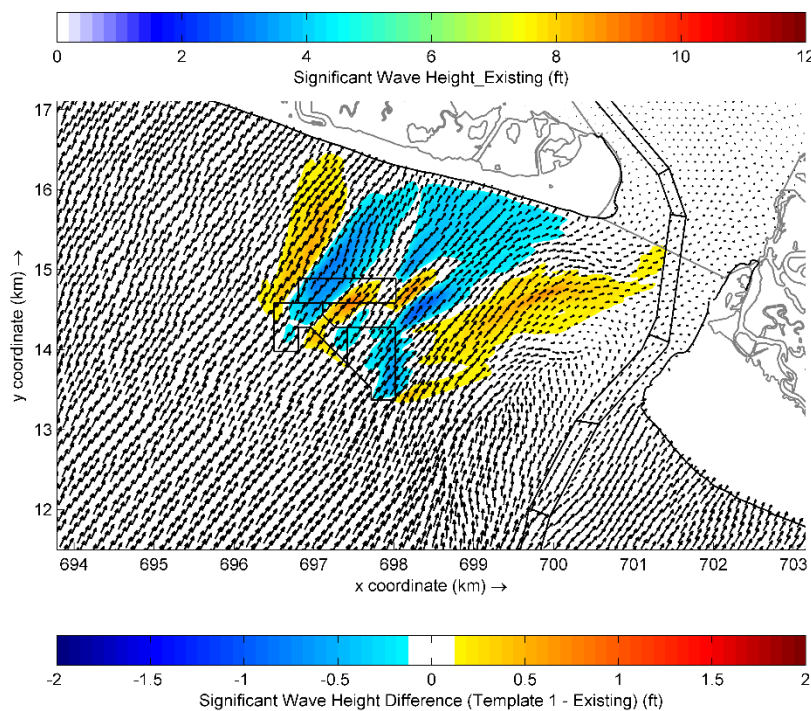
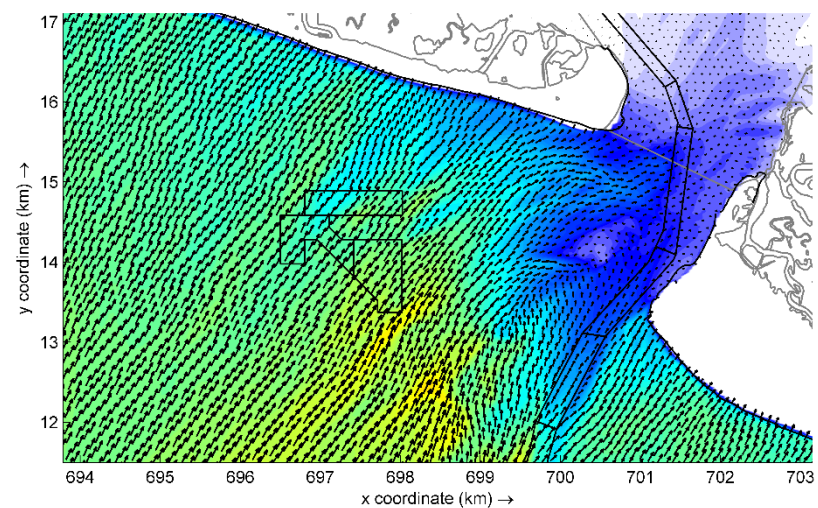
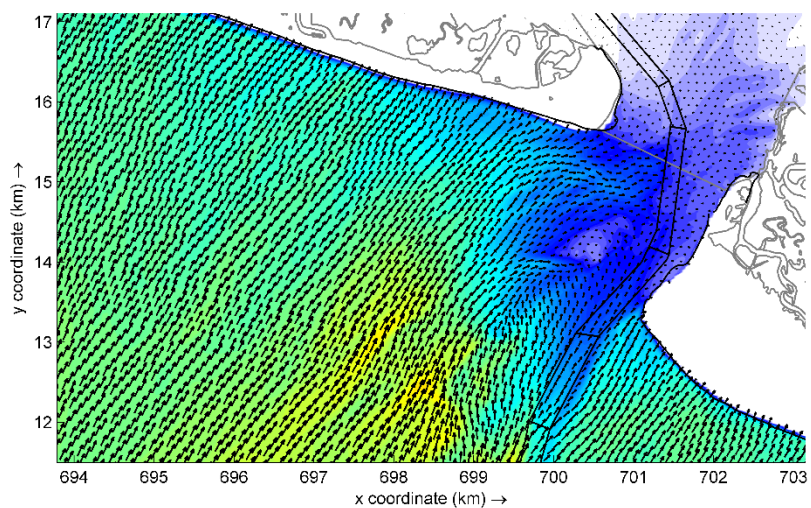
Offshore Wave Case72:

$H_s = 10.8$ ft, $T_p = 8.3$ s, Dir = 231.0 degN

Percent Occurrence = 0.071%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



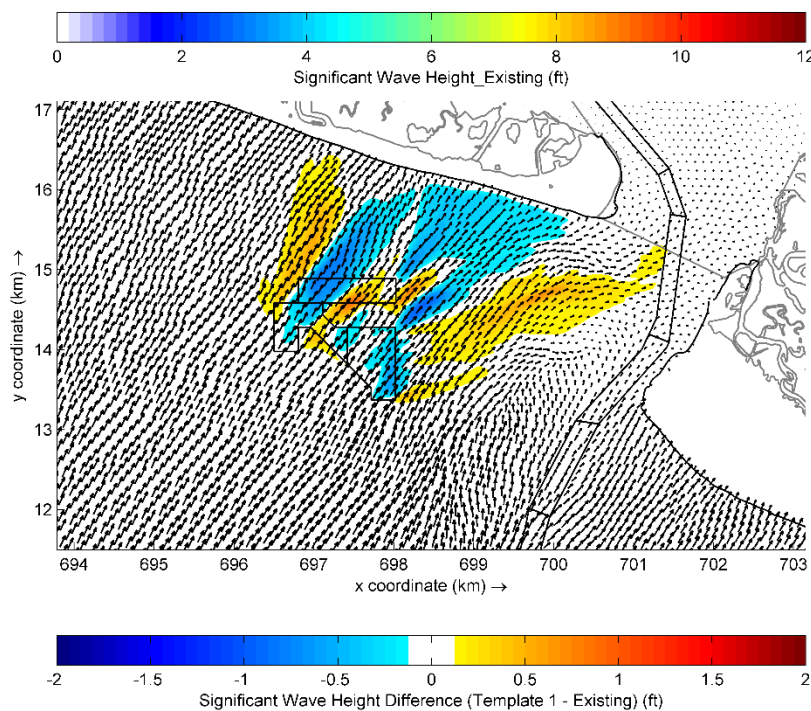
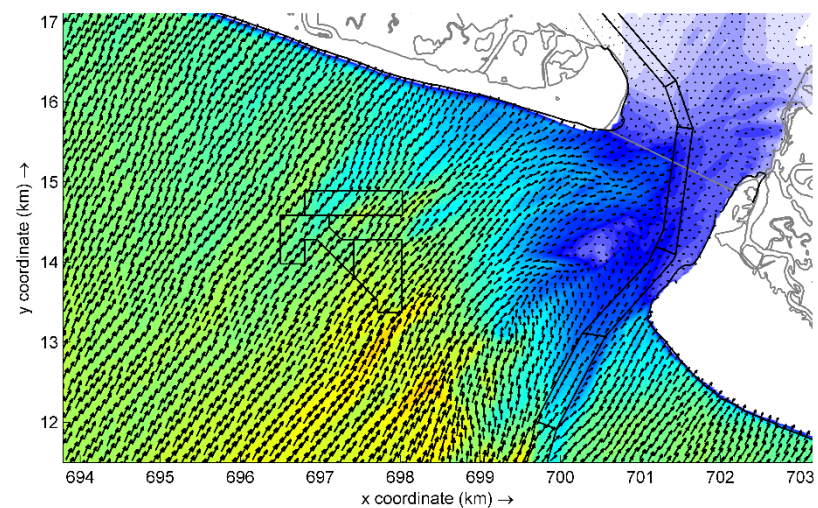
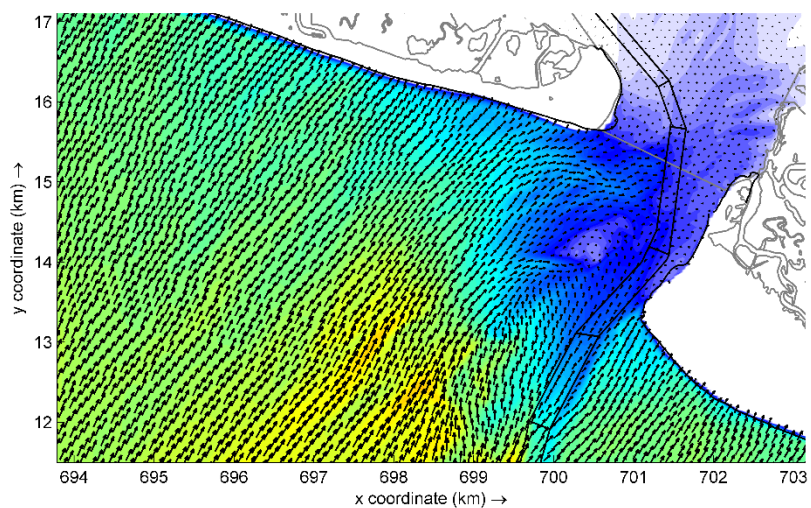
Offshore Wave Case73:

$H_s = 14.2$ ft, $T_p = 9.2$ s, Dir = 228.9 degN

Percent Occurrence = 0.007%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



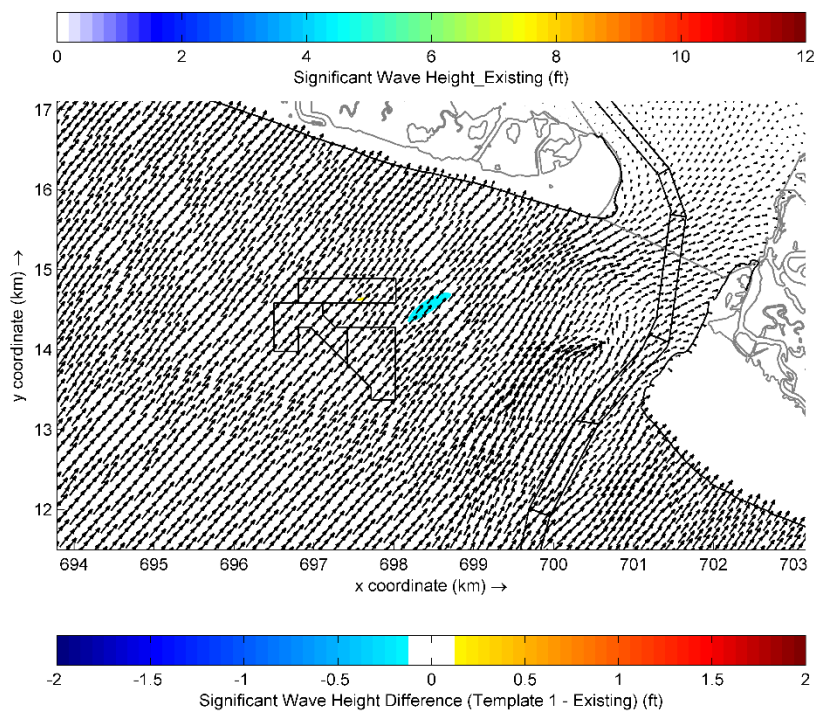
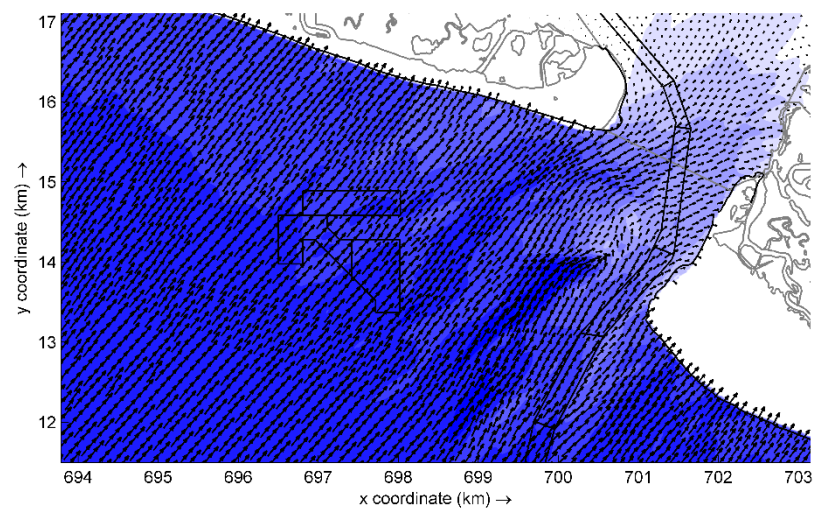
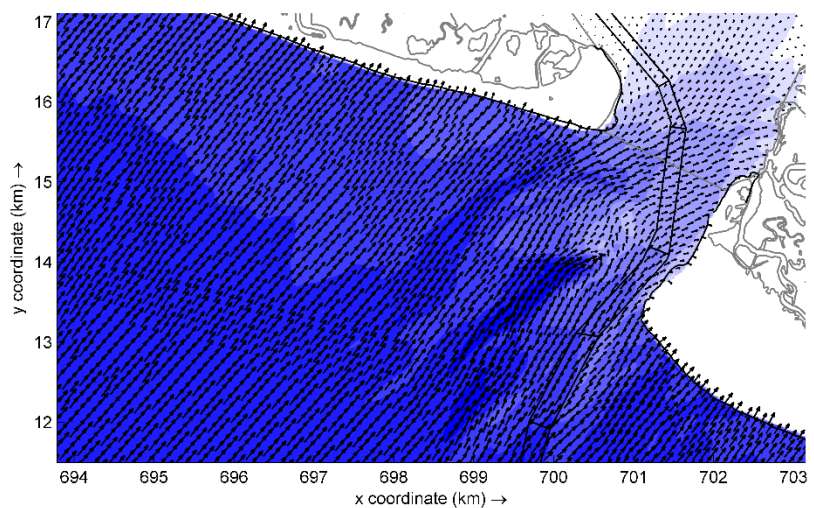
Offshore Wave Case74:

$H_s = 17.4$ ft, $T_p = 8.8$ s, Dir = 231.2 degN

Percent Occurrence = 0.005%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



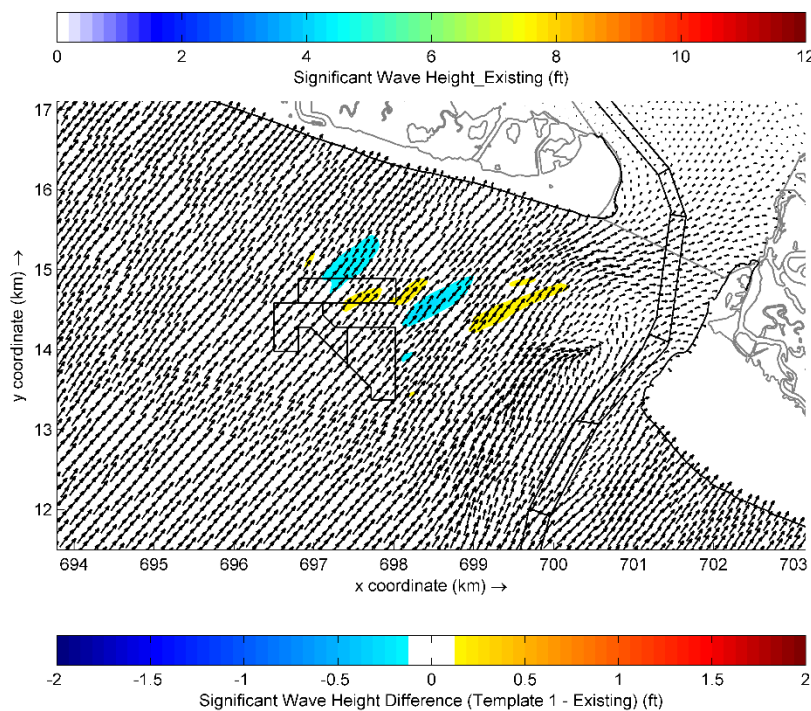
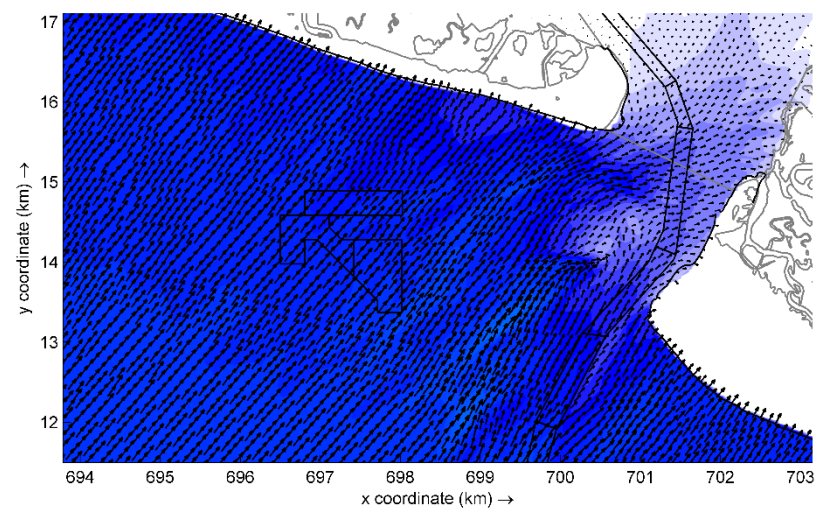
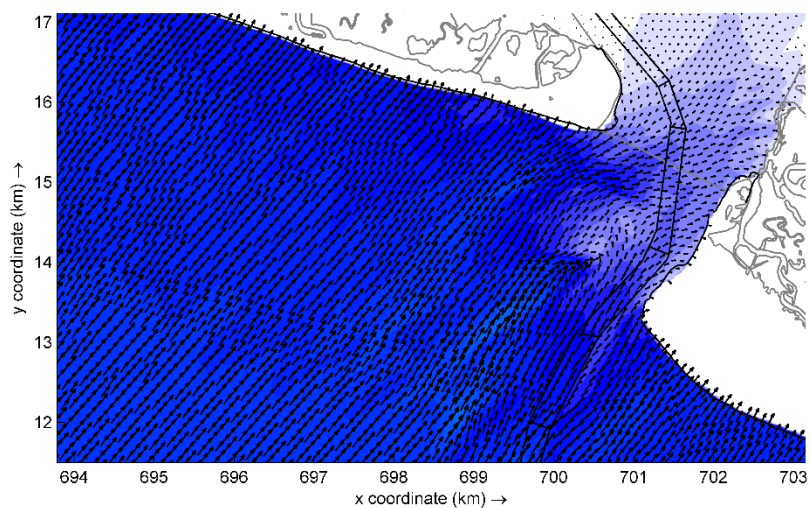
Offshore Wave Case75:

$H_s = 2.6$ ft, $T_p = 4.9$ s, Dir = 246.5 degN

Percent Occurrence = 0.301%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



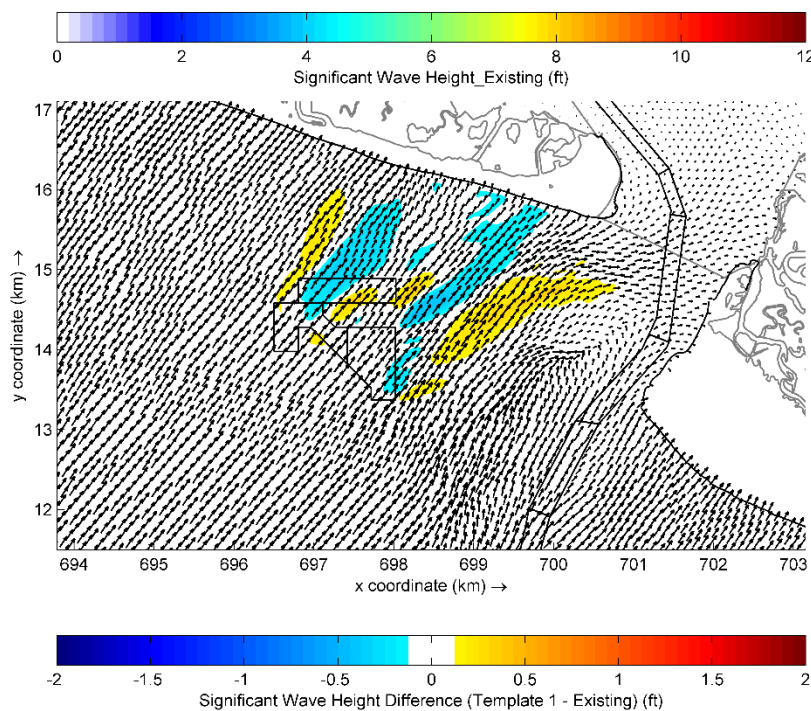
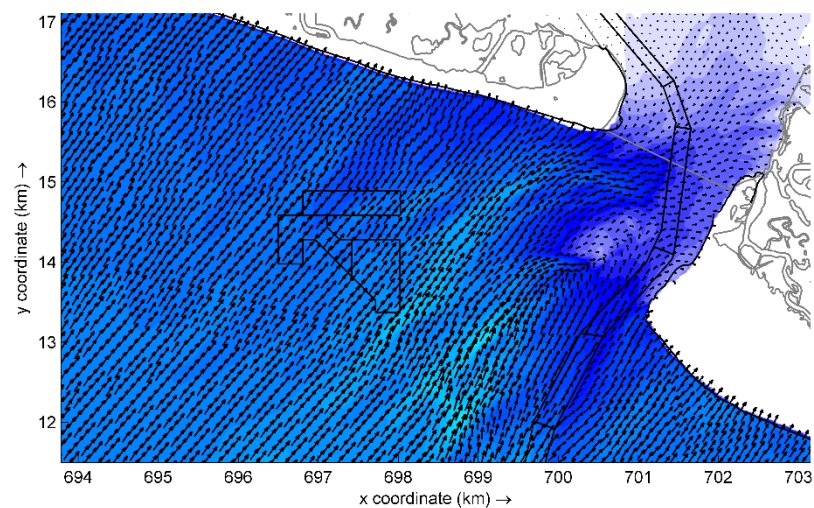
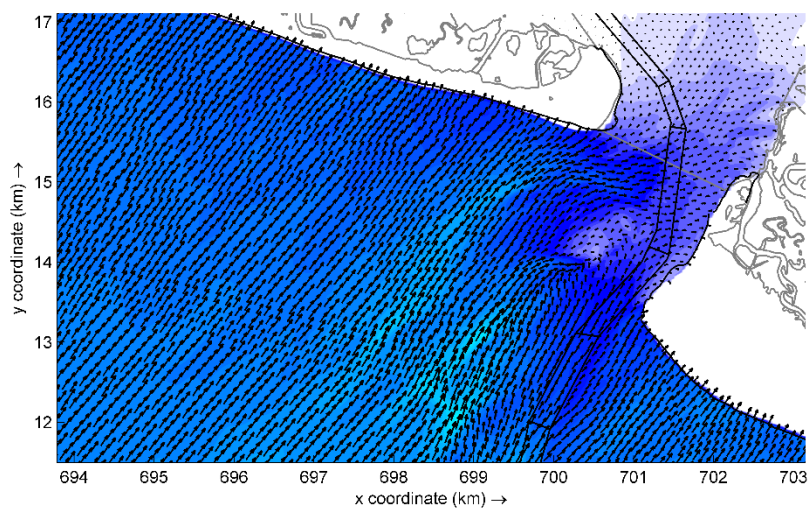
Offshore Wave Case76:

$H_s = 4.7$ ft, $T_p = 5.5$ s, Dir = 246.3 degN

Percent Occurrence = 0.539%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



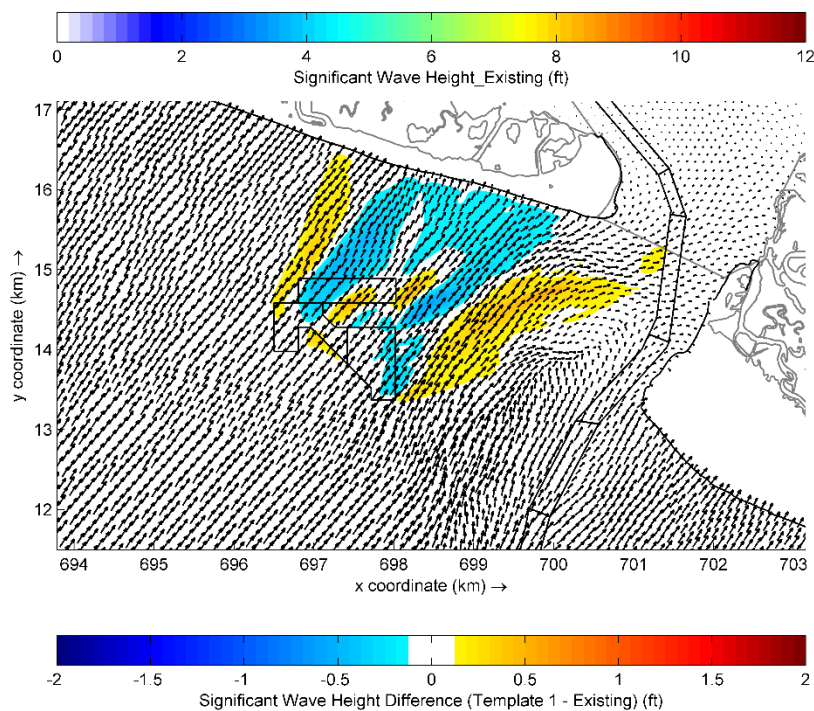
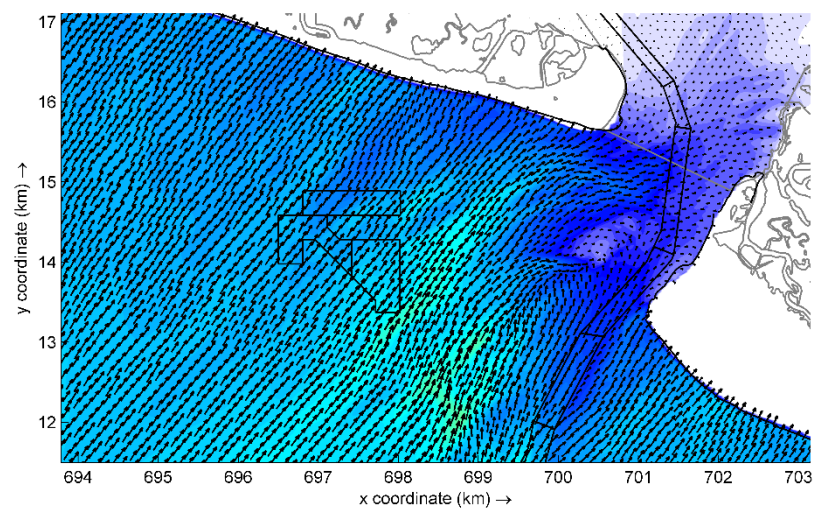
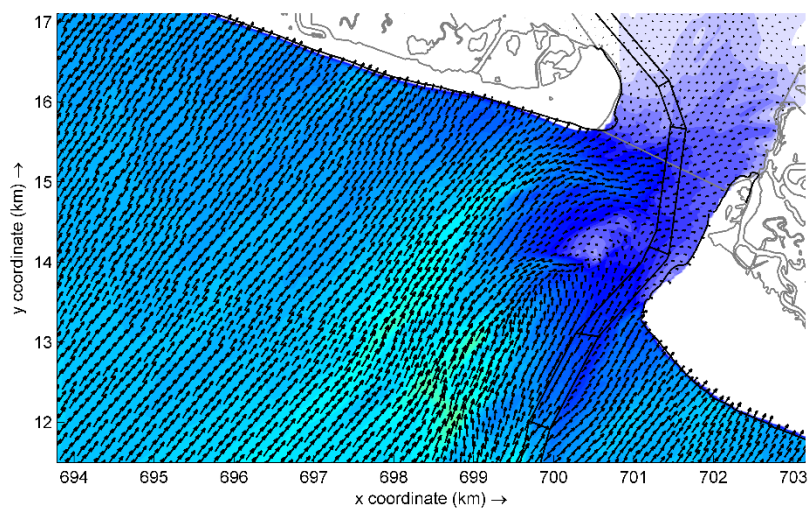
Offshore Wave Case77:

$H_s = 7.9$ ft, $T_p = 6.7$ s, Dir = 246.4 degN

Percent Occurrence = 0.190%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



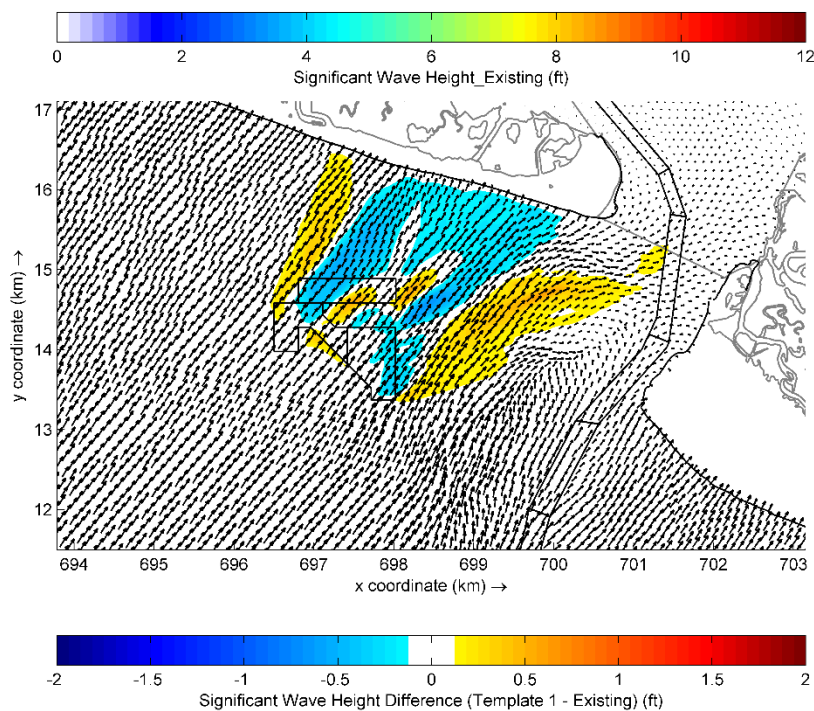
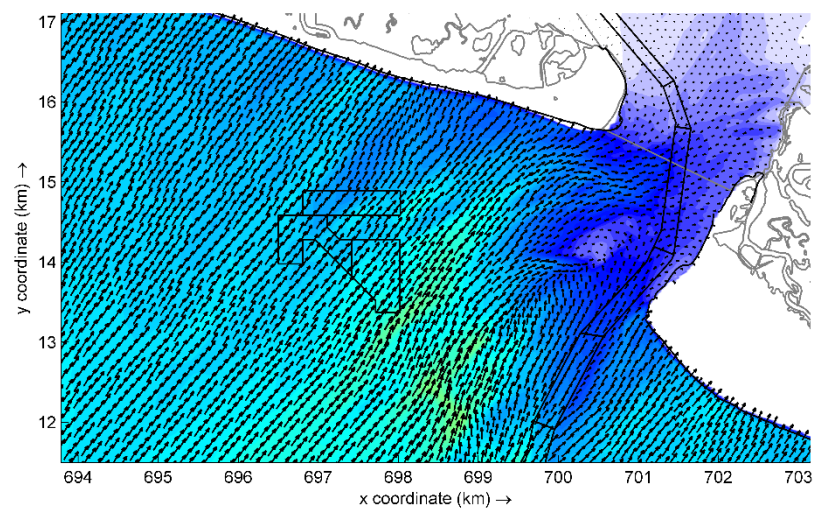
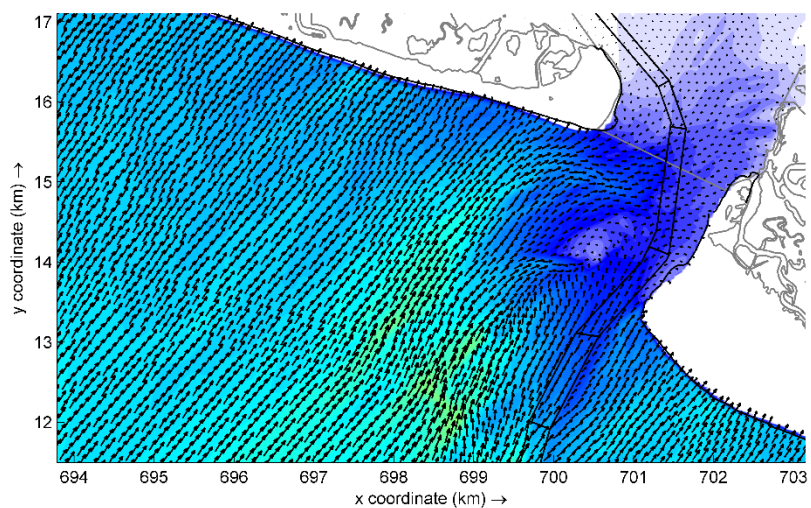
Offshore Wave Case78:

$H_s = 10.8$ ft, $T_p = 7.4$ s, Dir = 246.9 degN

Percent Occurrence = 0.039%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



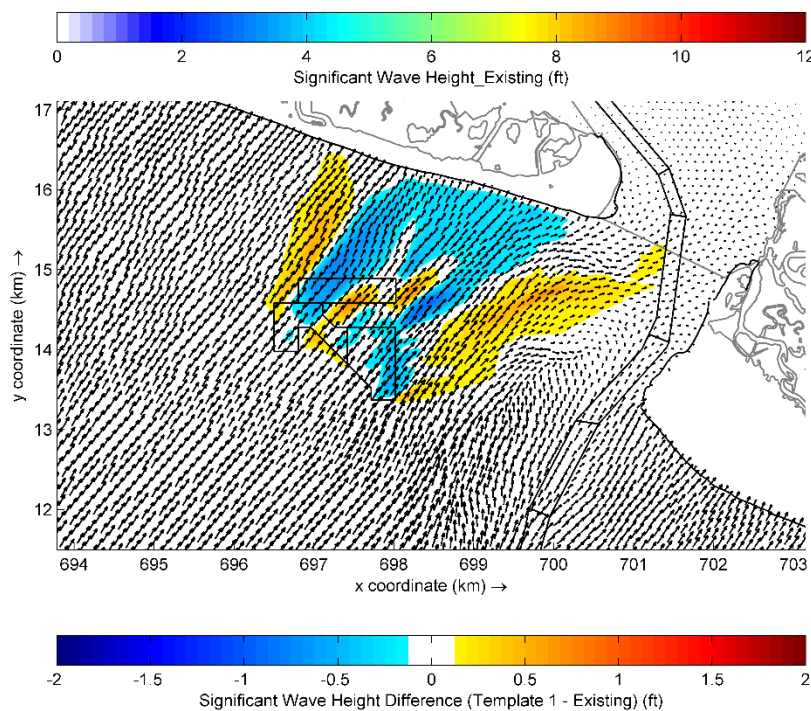
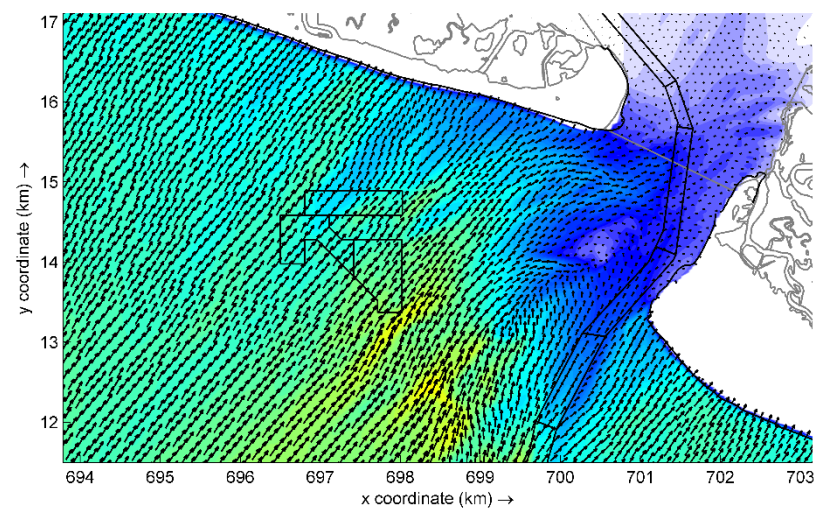
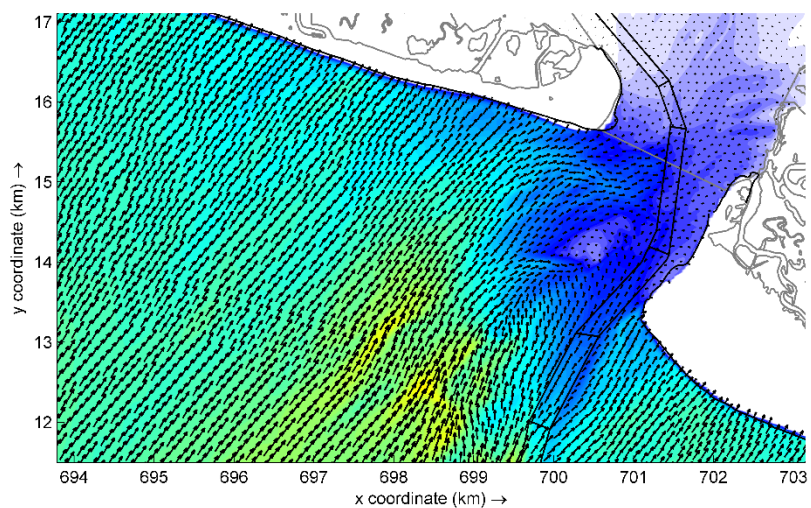
Offshore Wave Case79:

$H_s = 13.5$ ft, $T_p = 7.5$ s, Dir = 249.3 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



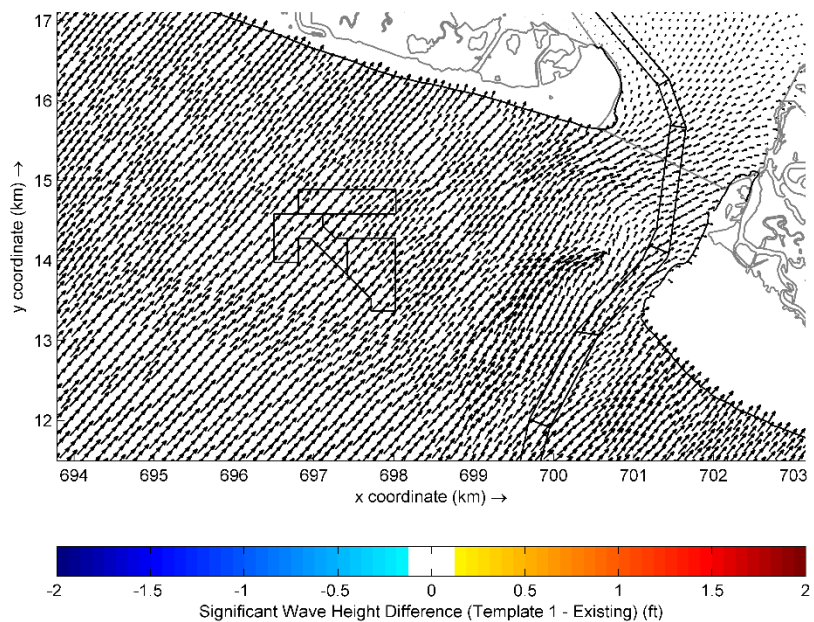
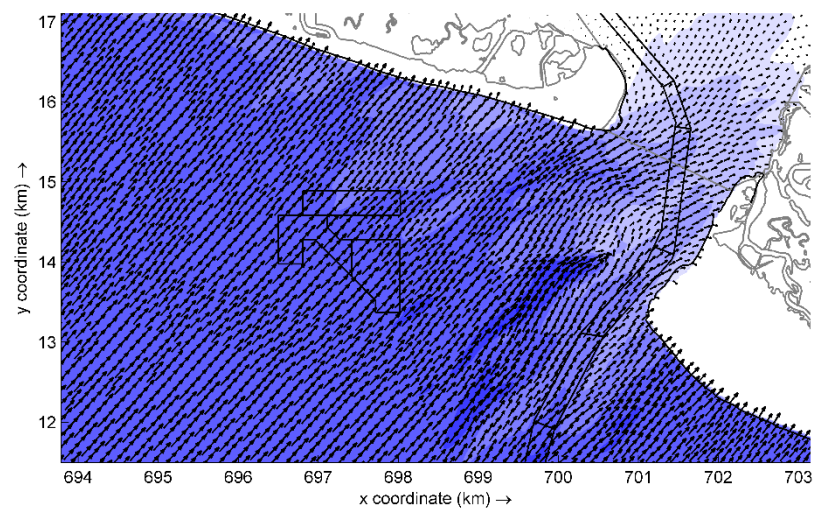
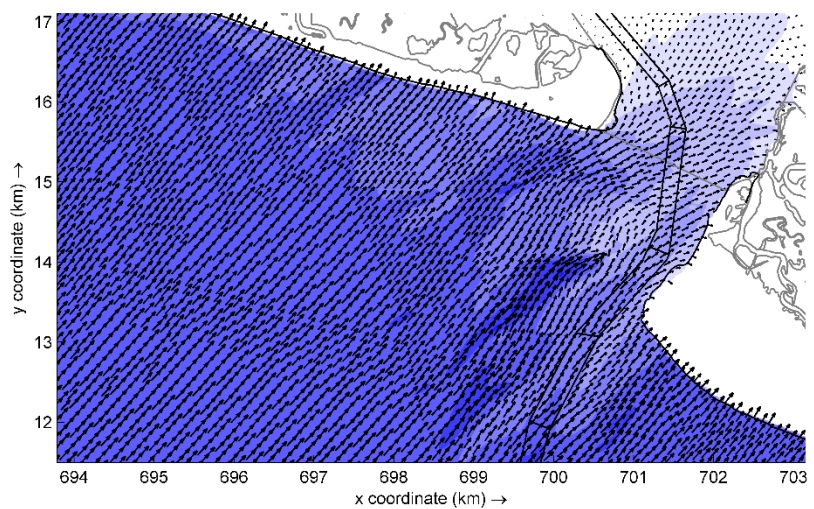
Offshore Wave Case80:

$H_s = 17.8$ ft, $T_p = 8.6$ s, Dir = 248.0 degN

Percent Occurrence = 0.001%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



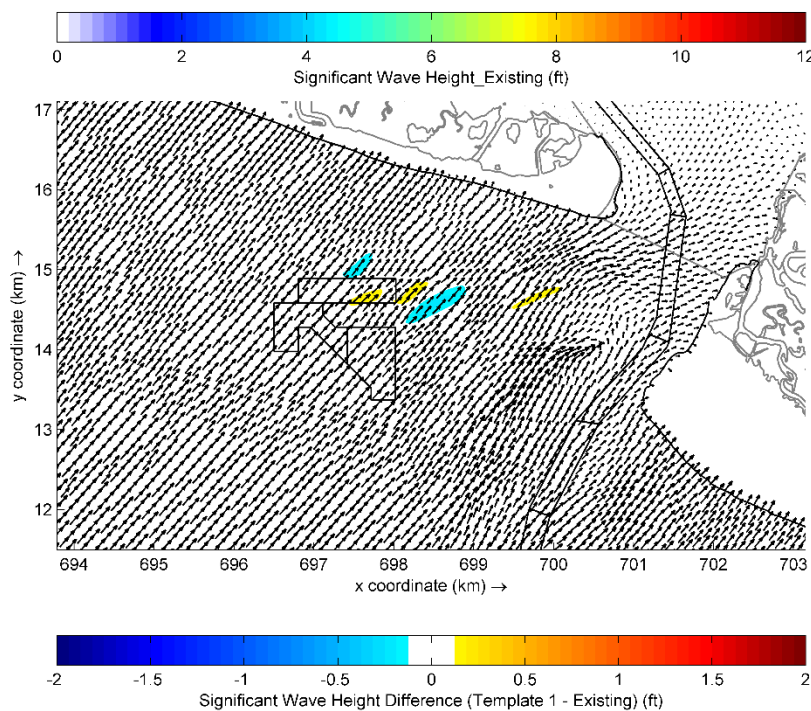
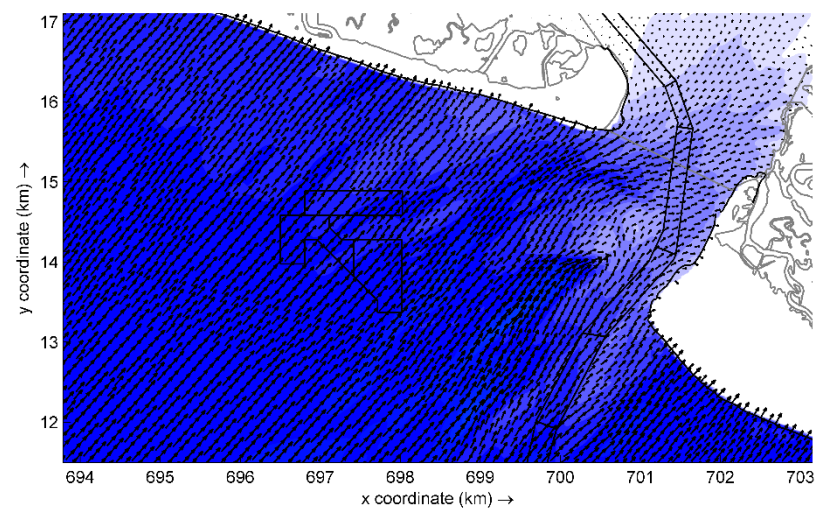
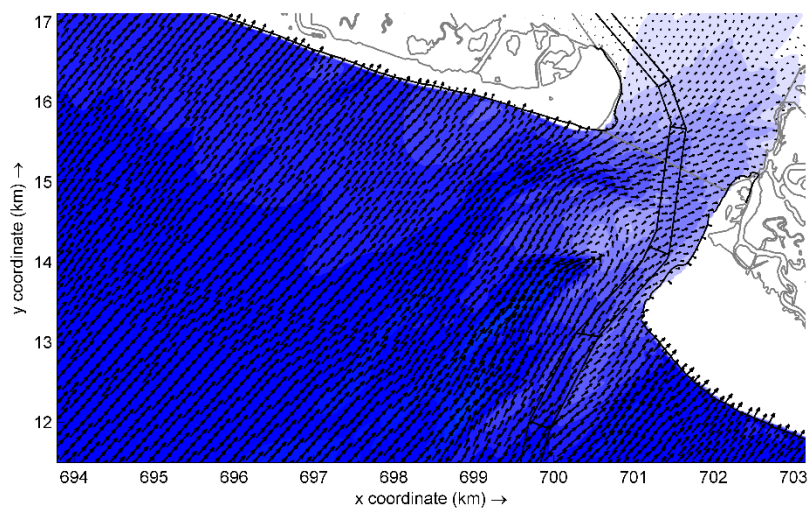
Offshore Wave Case81:

$H_s = 2.6$ ft, $T_p = 4.8$ s, Dir = 261.3 degN

Percent Occurrence = 0.169%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



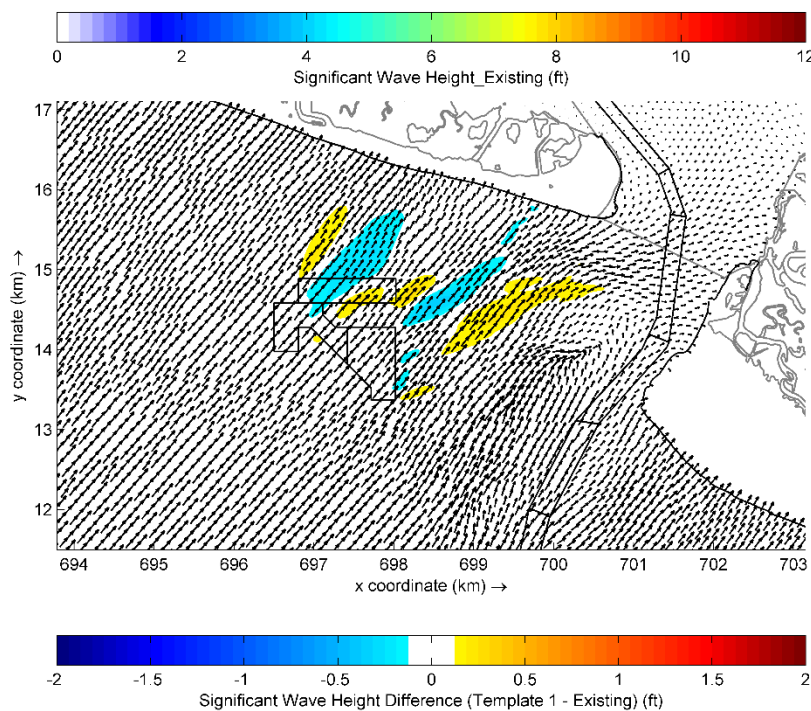
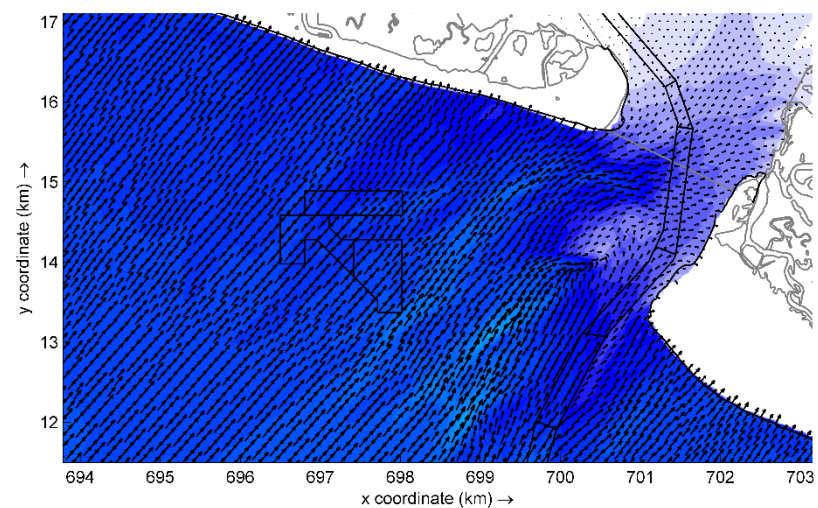
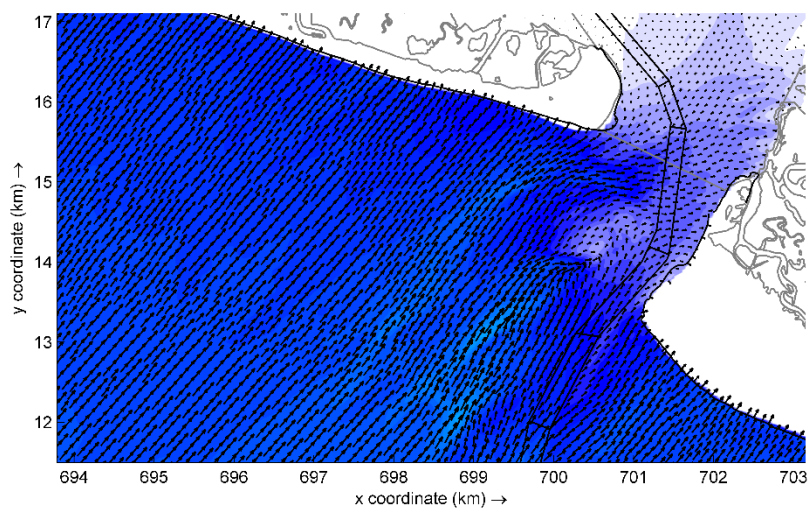
Offshore Wave Case82:

$H_s = 4.7$ ft, $T_p = 5.4$ s, Dir = 262.0 degN

Percent Occurrence = 0.321%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



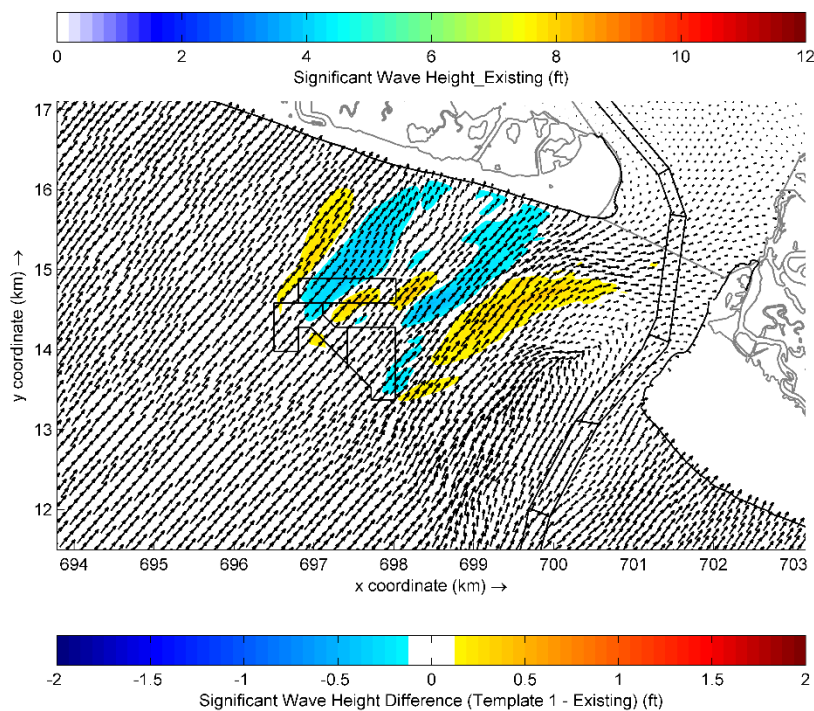
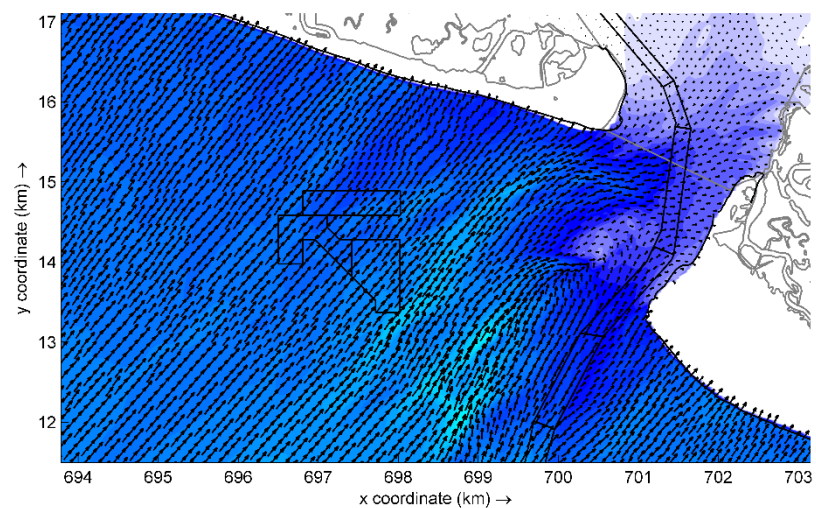
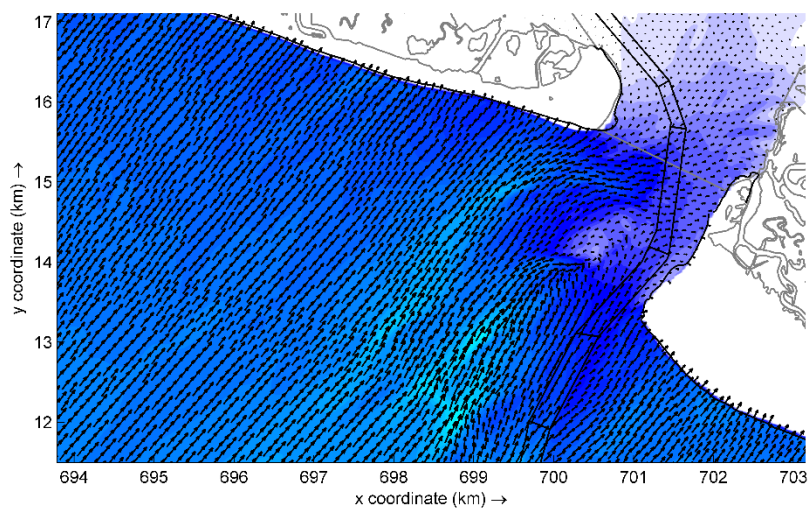
Offshore Wave Case83:

$H_s = 7.8$ ft, $T_p = 6.3$ s, Dir = 262.3 degN

Percent Occurrence = 0.168%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



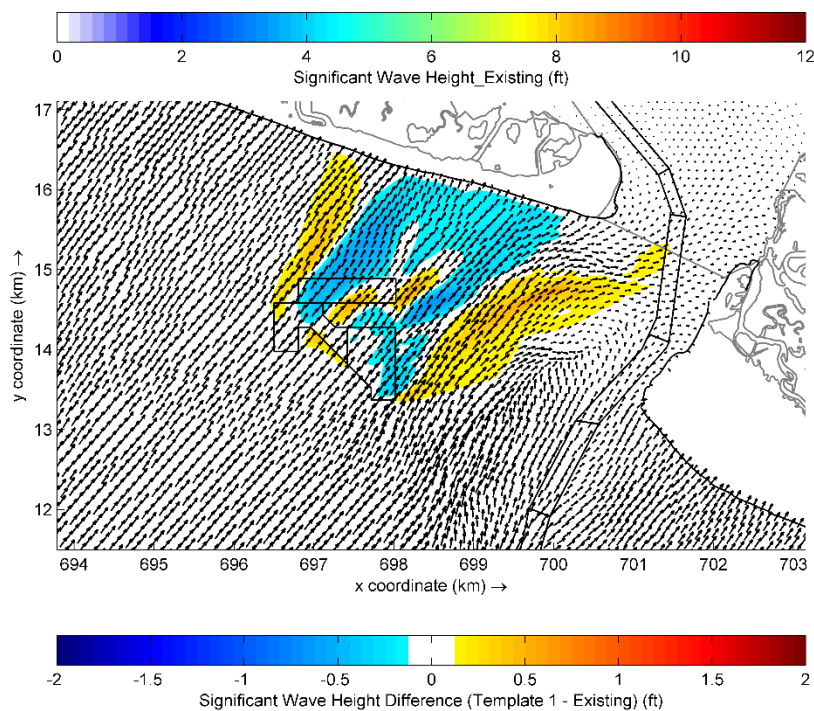
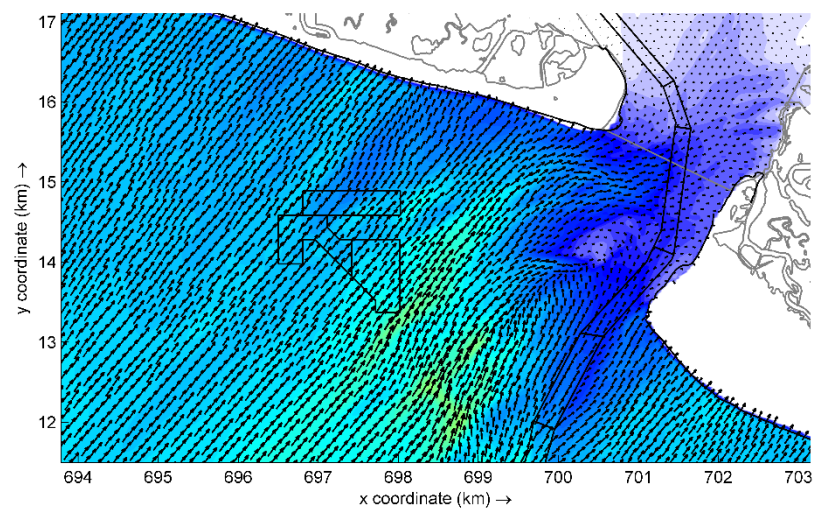
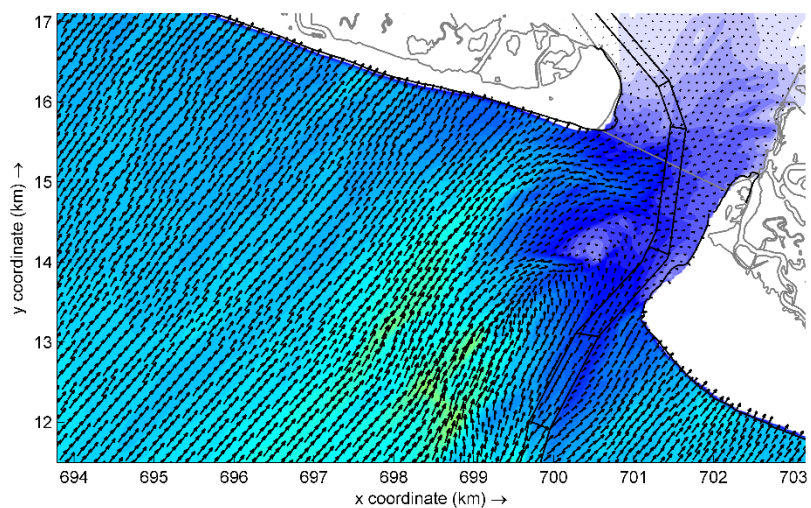
Offshore Wave Case84:

$H_s = 10.7$ ft, $T_p = 6.9$ s, Dir = 261.3 degN

Percent Occurrence = 0.040%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



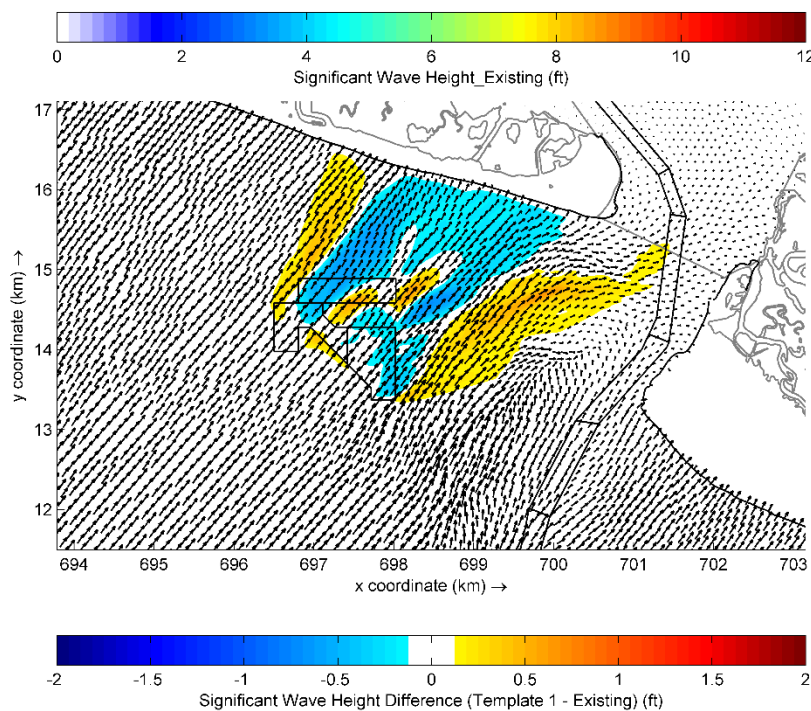
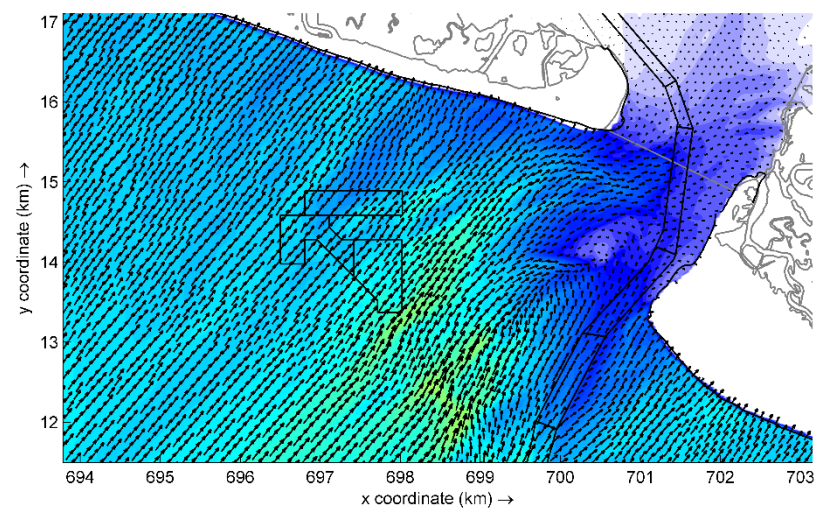
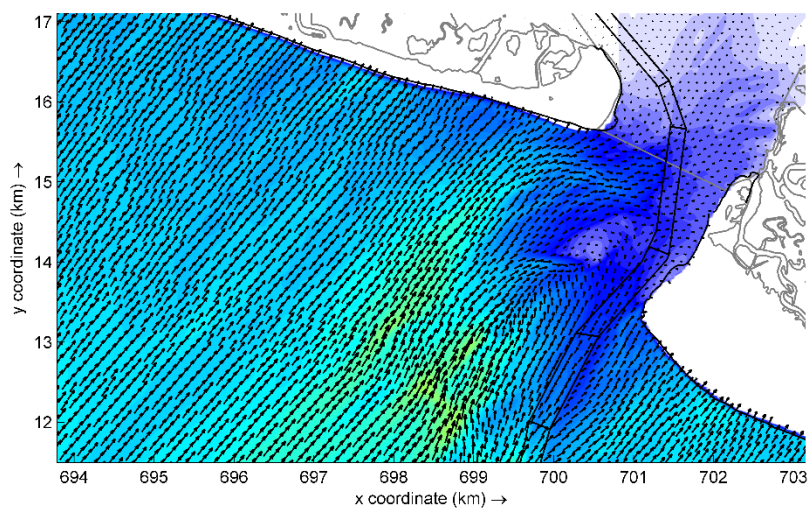
Offshore Wave Case85:

$H_s = 15.0$ ft, $T_p = 8.2$ s, Dir = 259.0 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)



Offshore Wave Case86:

$H_s = 17.9$ ft, $T_p = 8.3$ s, Dir = 263.5 degN

Percent Occurrence = 0.002%

From left to right and top to bottom:

- Wave under Existing condition (Existing)
- Wave under After-Dredge condition (Template 1)
- Changes in wave height (Template 1 – Existing)