

# **ROAD AND TRANSPORTATION MASTER PLAN**

WEST BANK AND GAZA STRIP

TA 2012013 PS 00 F10

**Annex 8 - Maritime Transport: Study Maps and Costs Analysis** 

**SEPTEMBER 30, 2016** 



























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Figure 79. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.75m, peak period Tp = 3.7s, and wave direction Dir= 340 °N.
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### 1. Maritime Transport Study Maps

Figure 1. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=0.25m, peak period Tp=2.1s, and wave direction Dir=0 °N.

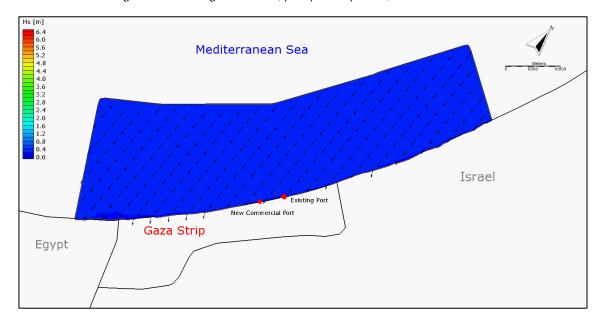
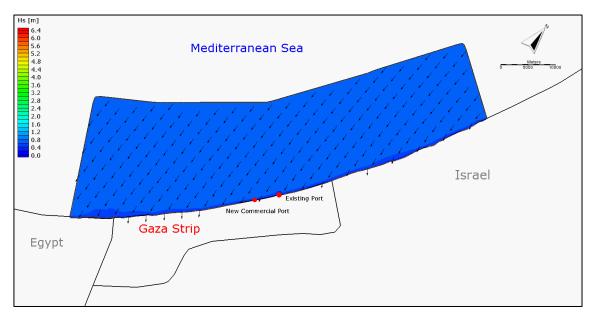


Figure 2. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.75m, peak period Tp = 3.7s, and wave direction Dir= 0 °N.













Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction Dir=0 °N. Figure 3.

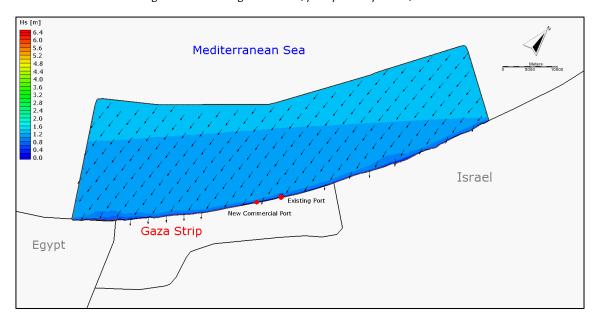
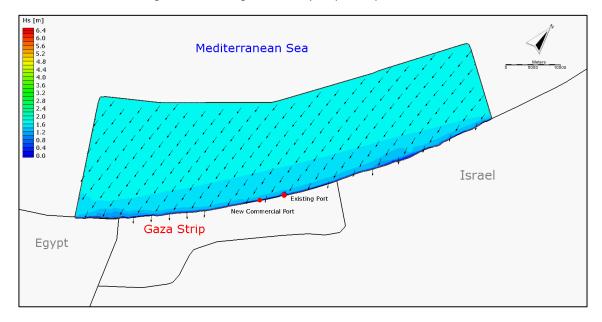


Figure 4. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction Dir= 0 °N.













Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=2.3m, peak period Tp=6.4s, and wave direction Dir=0 °N. Figure 5.

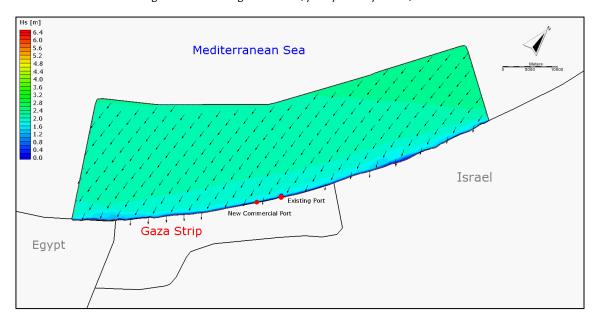
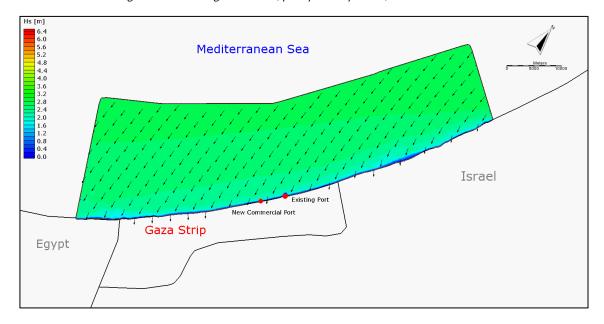


Figure 6. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 2.8m, peak period Tp = 7.1s, and wave direction Dir = 0 °N.















Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=0.25m, peak period Tp=2.1s, and wave direction  $Dir=250\,^{\circ}N$ . Figure 7.

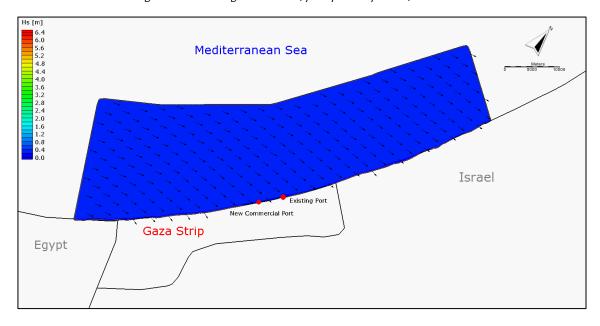
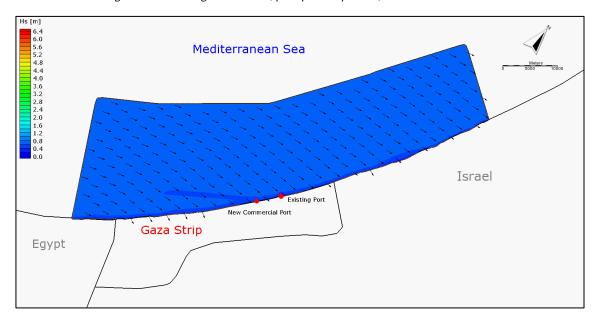


Figure 8. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=0.75m, peak period Tp=3.7s, and wave direction Dir=250 °N.





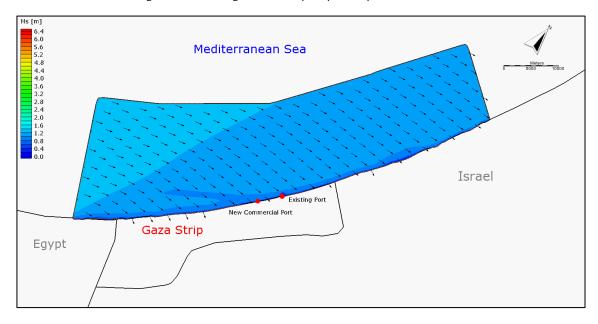








Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=1.3m, peak period Tp=4.8s, and wave direction Dir=250 °N. Figure 9.



Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=0.25m, peak period Tp=2.1s, and wave direction Dir= 260 °N. Figure 10.

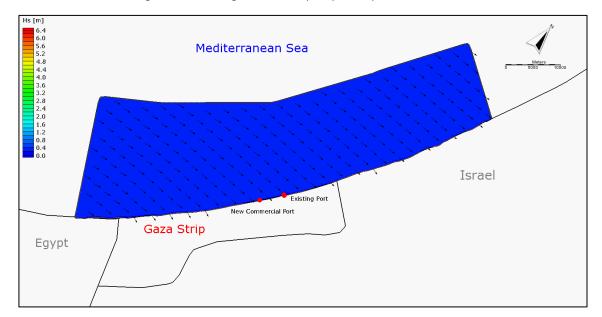






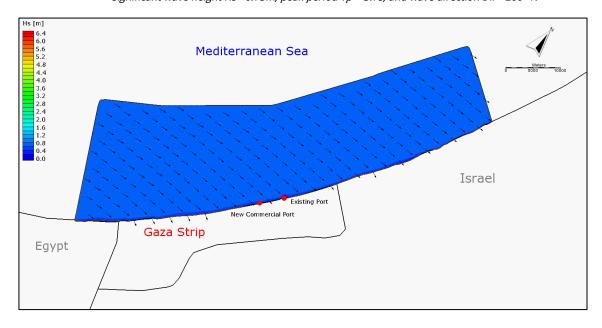








Figure 11. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.75m, peak period Tp = 3.7s, and wave direction Dir= 260 °N



Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=1.3m, peak period Tp=4.8s, and wave direction Dir=260 °N. Figure 12.

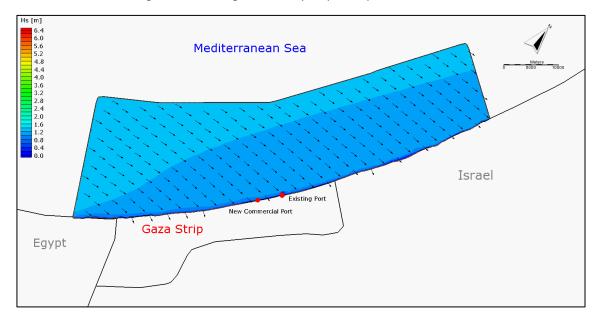












Figure 13. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction Dir= 260 °N.

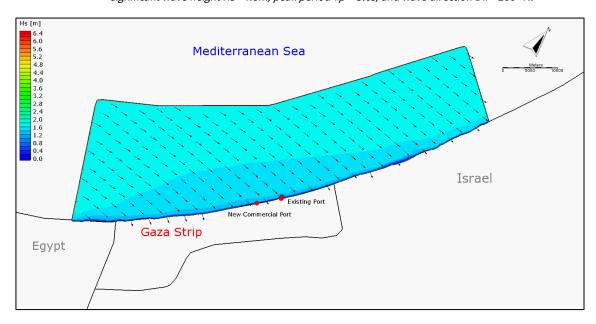


Figure 14. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir=  $260 \, ^{\circ}$ N.

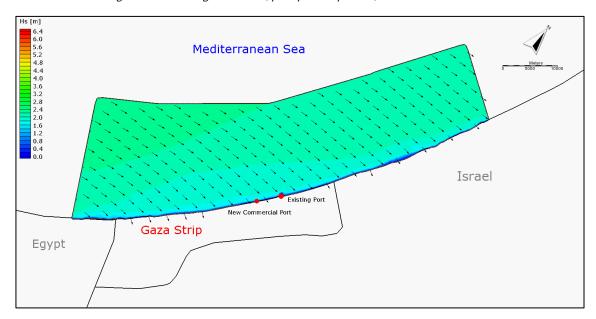














Figure 15. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.25m, peak period Tp = 2.1s, and wave direction Dir= 270 °N.

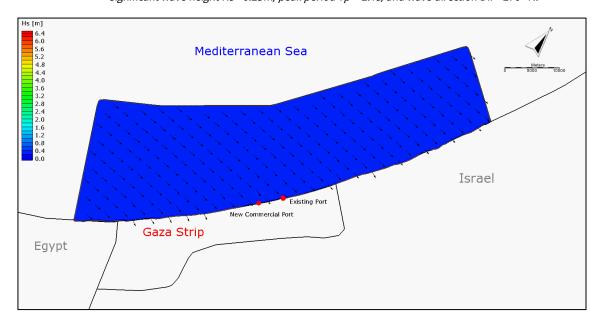


Figure 16. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.75m, peak period Tp = 3.7s, and wave direction Dir = 270 °N.

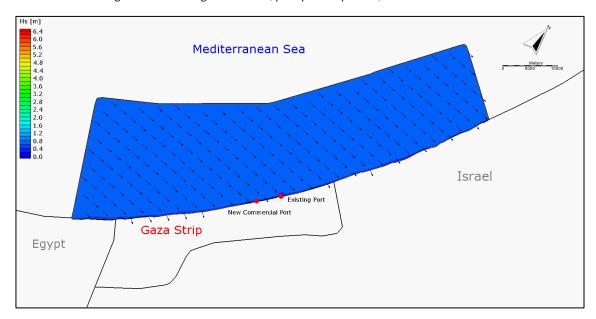












Figure 17. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction Dir= 270 °N.

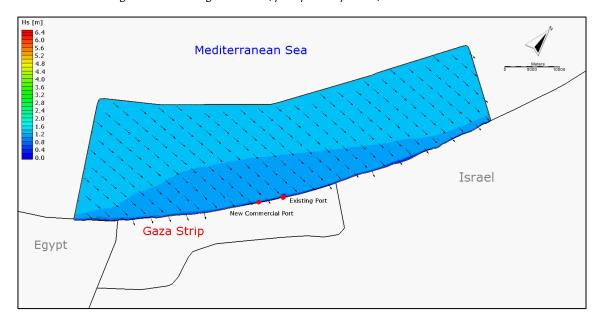


Figure 18. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction  $Dir = 270 \, ^{\circ}N$ .

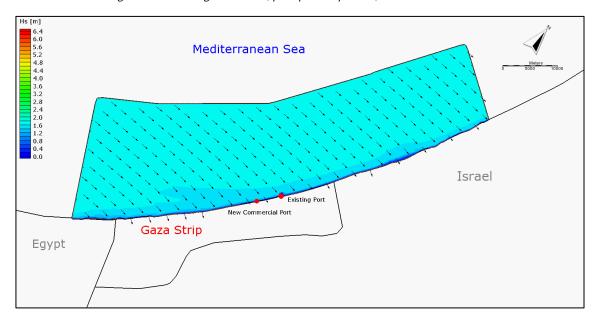












Figure 19. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir= 270 °N.

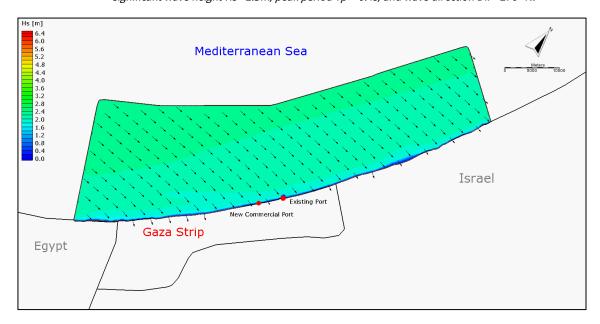


Figure 20. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction Dir=  $270 \, ^{\circ}$ N.

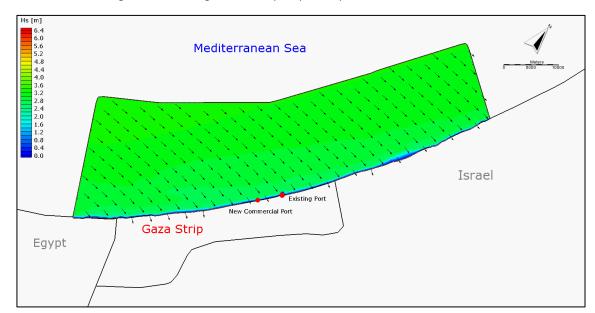














Figure 21. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.25m, peak period Tp = 2.1s, and wave direction Dir= 280 °N.

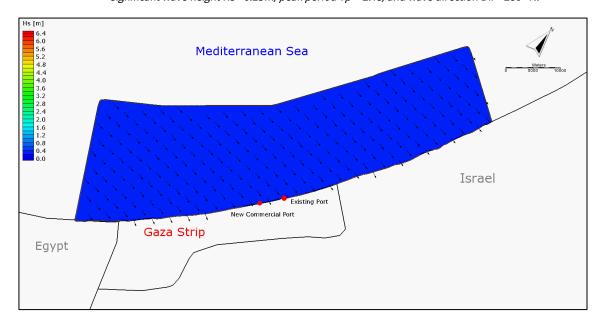


Figure 22. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.75m, peak period Tp = 3.7s, and wave direction Dir = 280 °N.

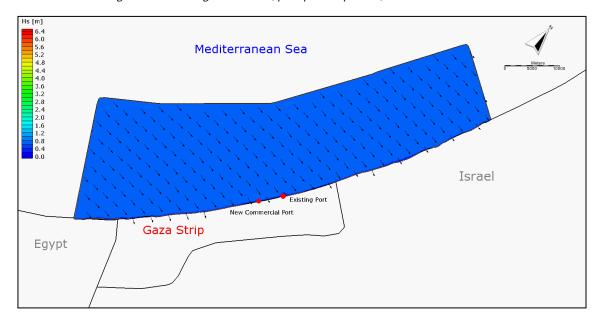












Figure 23. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction Dir= 280 °N.

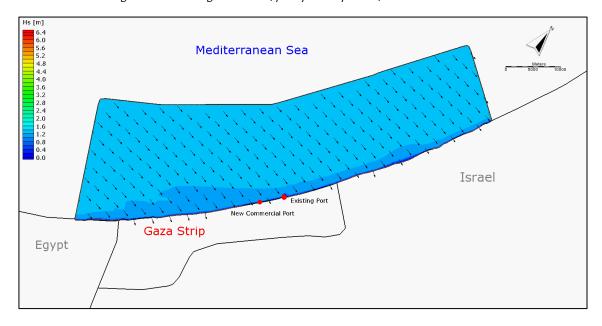


Figure 24. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction  $Dir = 280 \, ^{\circ}N$ .

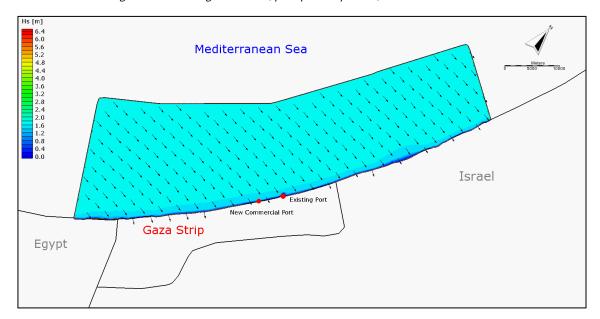












Figure 25. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir= 280 °N.

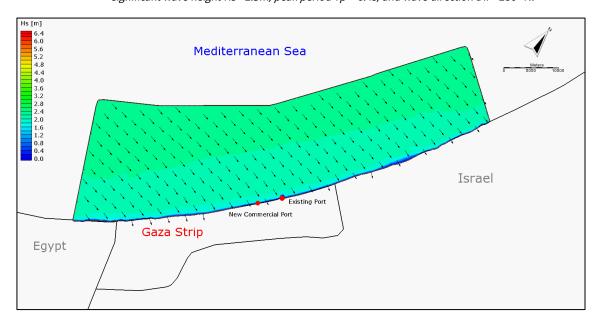


Figure 26. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.8m, peak period Tp = 7.1s, and wave direction Dir=  $280 \, ^{\circ}$ N.

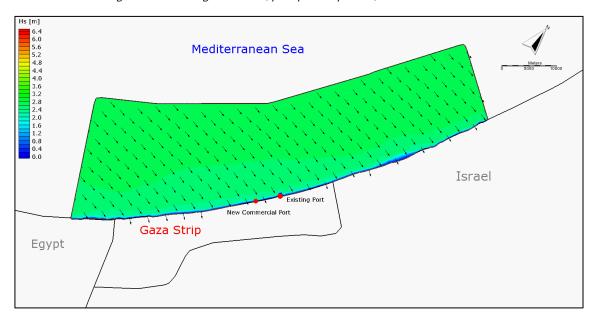












Figure 27. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction  $Dir=280 \, ^{\circ}N$ .

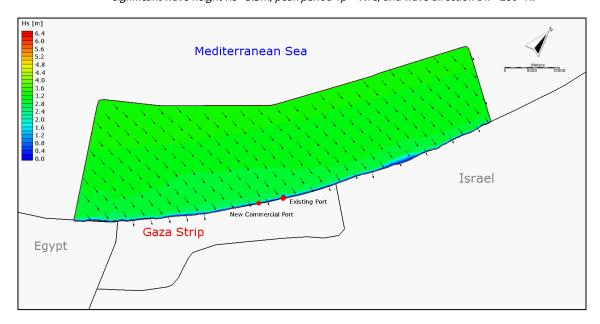


Figure 28. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.8m, peak period Tp = 8.3s, and wave direction Dir=  $280 \, ^{\circ}$ N.

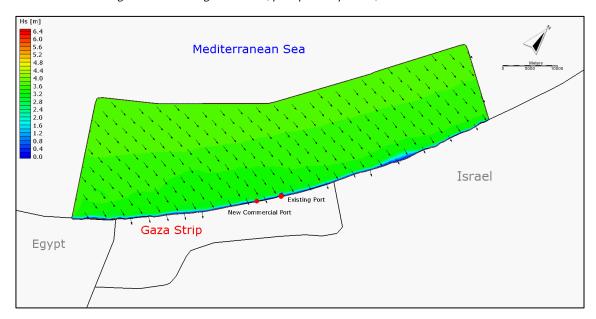












Figure 29. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 4.5m, peak period Tp = 9s, and wave direction Dir= 280 °N.

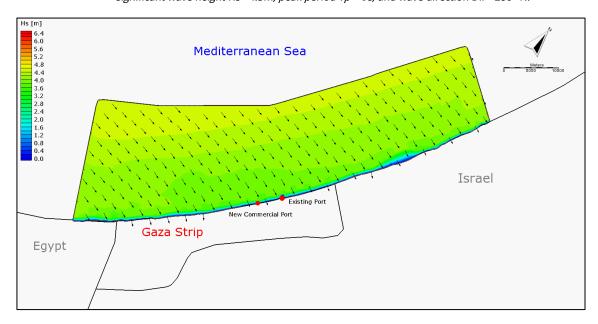


Figure 30. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.25m, peak period Tp = 2.1s, and wave direction Dir = 290 °N.

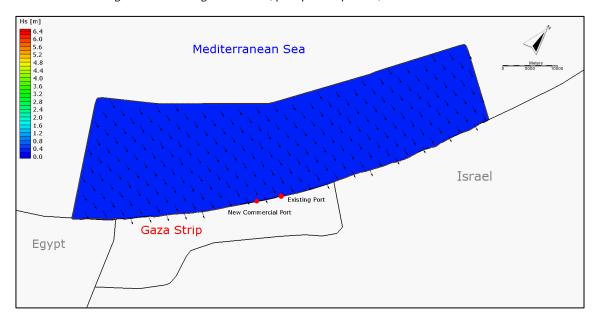












Figure 31. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.75m, peak period Tp = 3.7s, and wave direction Dir = 290 °N.

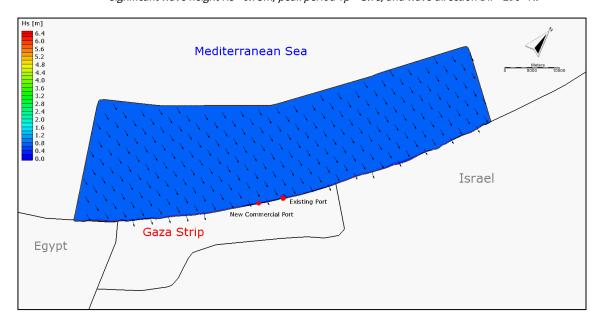


Figure 32. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction Dir=290 °N.

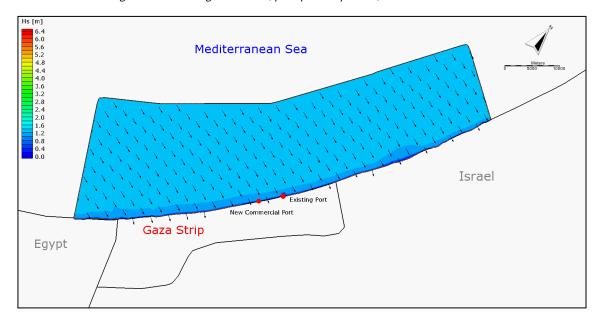












Figure 33. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction  $Dir=290 \, ^{\circ}N$ .

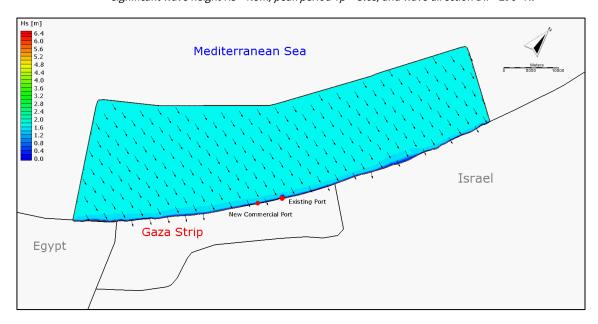


Figure 34. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir=290 °N

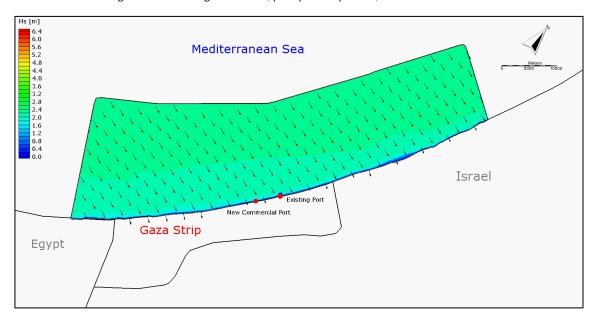












Figure 35. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.8m, peak period Tp = 7.1s, and wave direction Dir= 290 N.

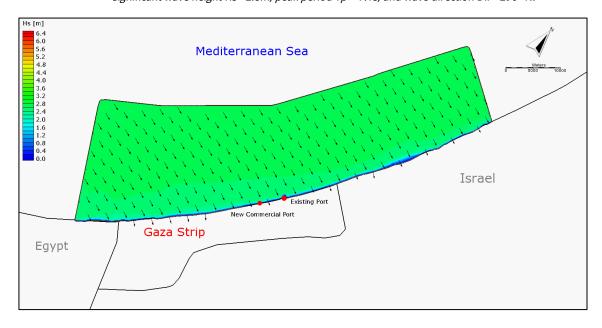


Figure 36. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction Dir= 290 °N.

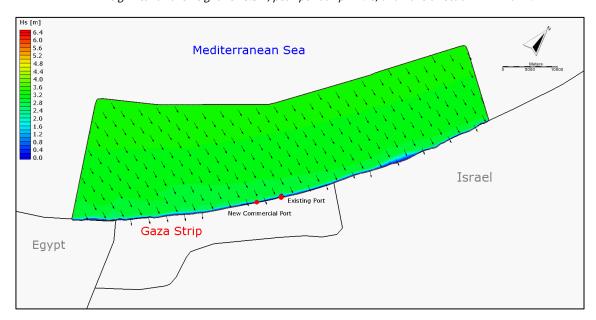












Figure 37. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.8m, peak period Tp = 8.3s, and wave direction Dir=290 °N.

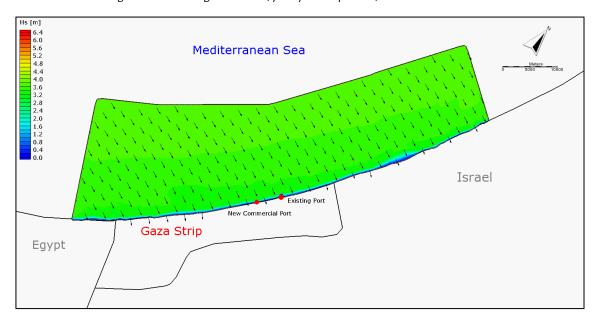


Figure 38. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 4.5m, peak period Tp = 9s, and wave direction Dir= 290 °N.

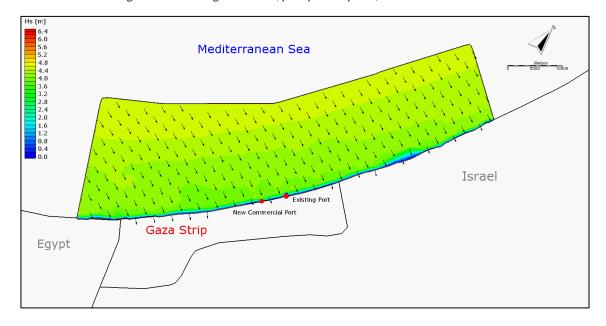














Figure 39. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 5.5m, peak period Tp = 10s, and wave direction Dir= 290 °N.

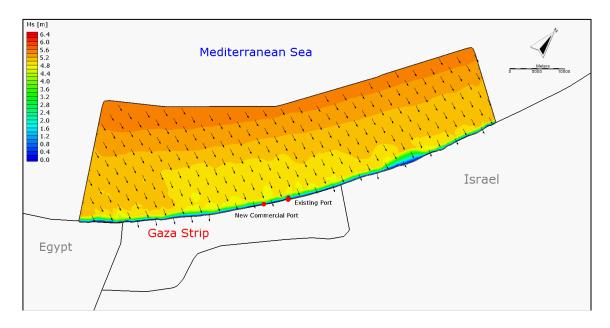


Figure 40. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=0.25m, peak period Tp=2.1s, and wave direction Dir=300 °N.

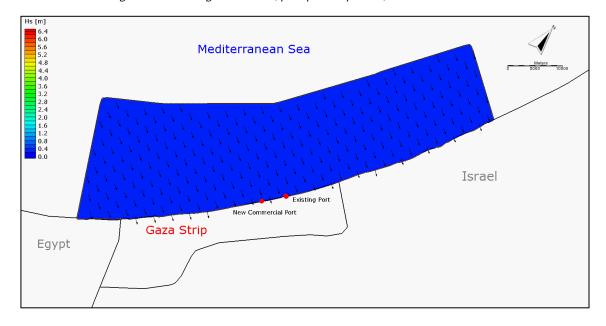












Figure 41. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.75m, peak period Tp = 3.7s, and wave direction Dir = 300 °N.

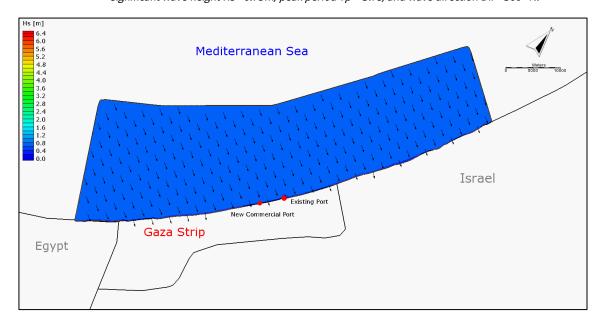


Figure 42. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction Dir=300 °N.

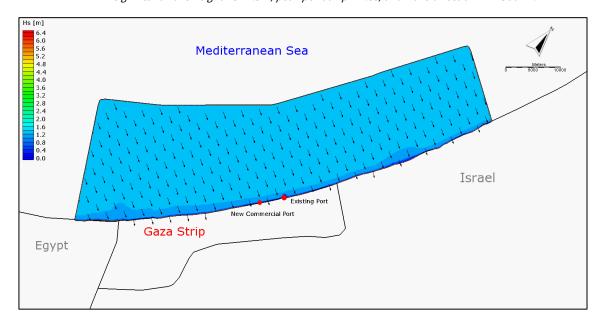












Figure 43. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction Dir= 300 °N.

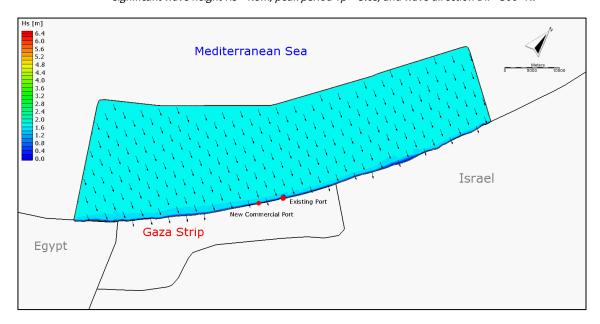


Figure 44. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 2.3m, peak period Tp = 6.4s, and wave direction Dir = 300 °N.

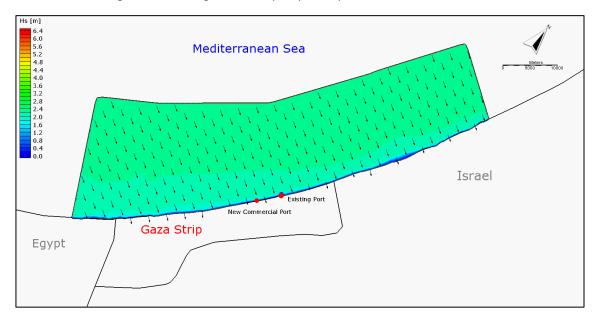














Figure 45. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.8m, peak period Tp = 7.1s, and wave direction Dir= 300 °N.

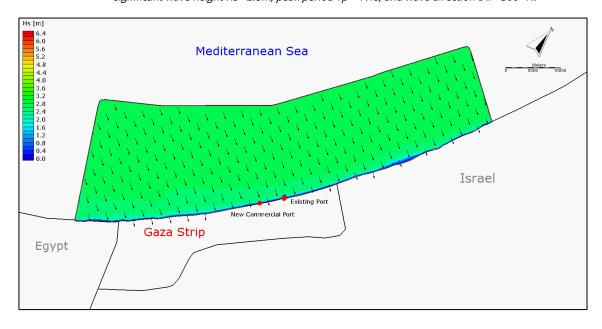


Figure 46. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction Dir=  $300 \, ^{\circ}$ N.

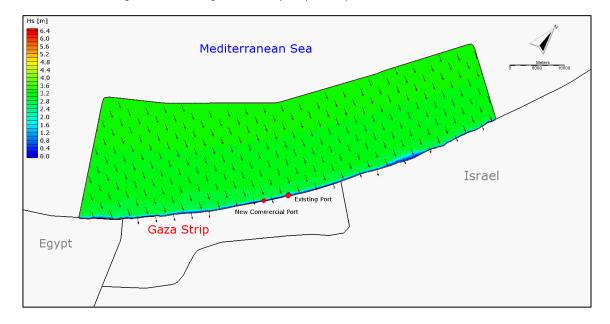














Figure 47. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.8m, peak period Tp = 8.3s, and wave direction Dir= 300 °N.

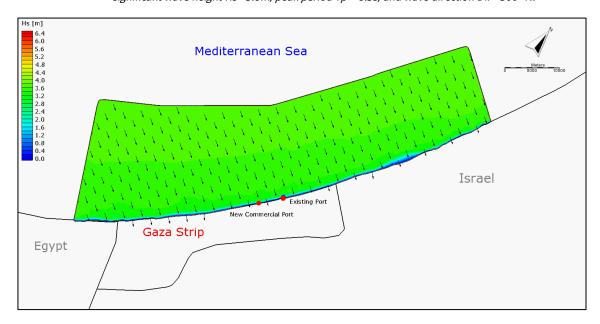


Figure 48. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 4.5m, peak period Tp = 9s, and wave direction Dir= 300 °N.

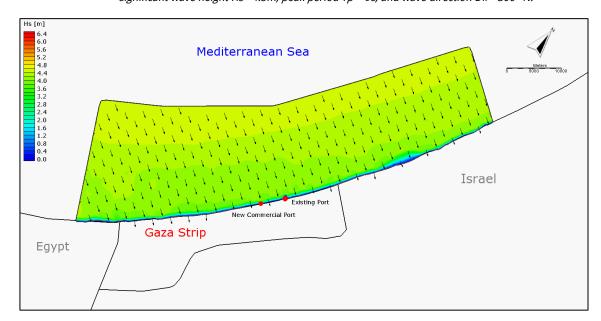














Figure 49. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 5.5m, peak period Tp = 10s, and wave direction Dir=  $300 \, ^{\circ}$ N.

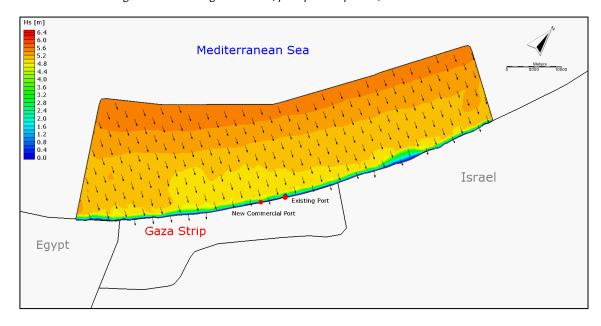


Figure 50. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 6.5m, peak period Tp = 11s, and wave direction Dir=  $300 \, ^{\circ}$ N.

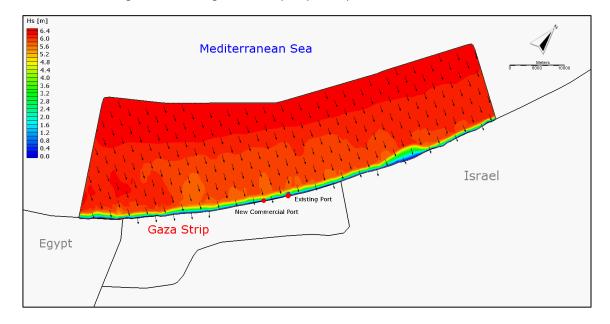












Figure 51. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.25m, peak period Tp = 2.1s, and wave direction Dir= 310 °N.

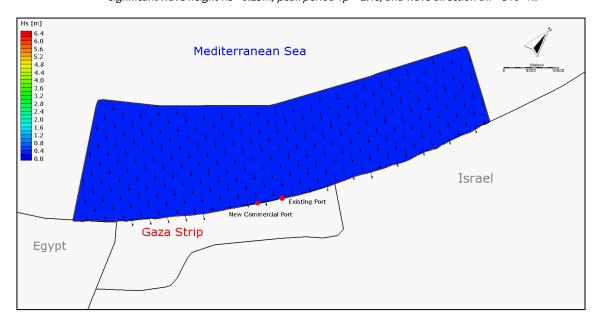


Figure 52. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.75m, peak period Tp = 3.7s, and wave direction Dir = 310 °N.

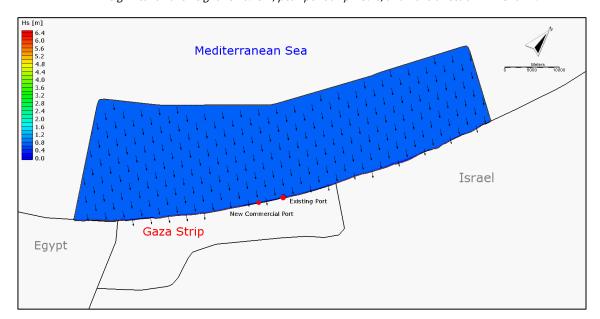












Figure 53. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction Dir= 310 °N.

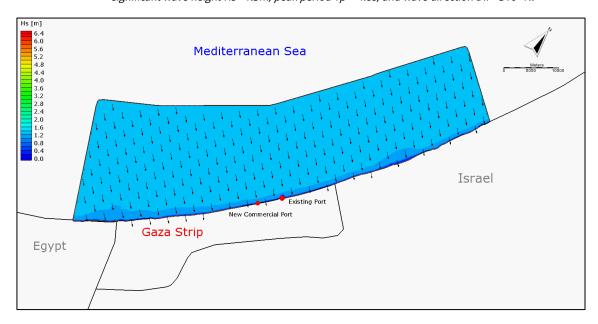


Figure 54. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction Dir=  $310 \, ^{\circ}$ N.

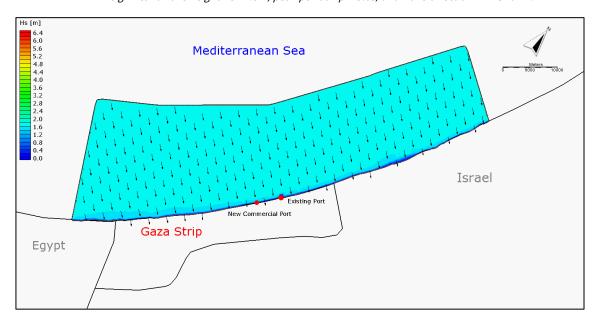












Figure 55. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir= 310 °N.

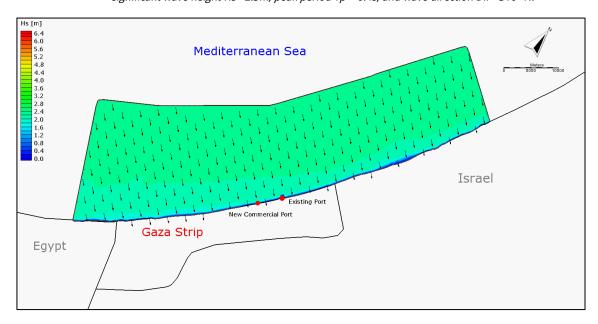


Figure 56. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.8m, peak period Tp = 7.1s, and wave direction Dir=  $310 \, ^{\circ}$ N.

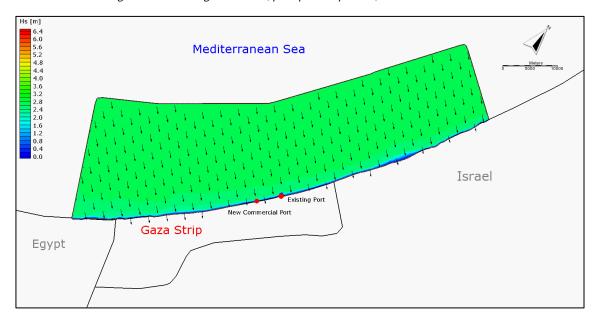












Figure 57. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction Dir= 310 °N.

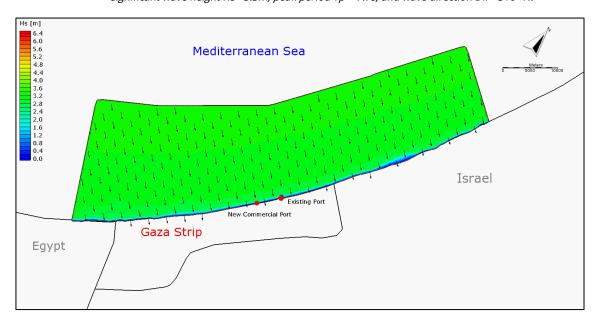


Figure 58. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.8m, peak period Tp = 8.3s, and wave direction Dir=310 °N.

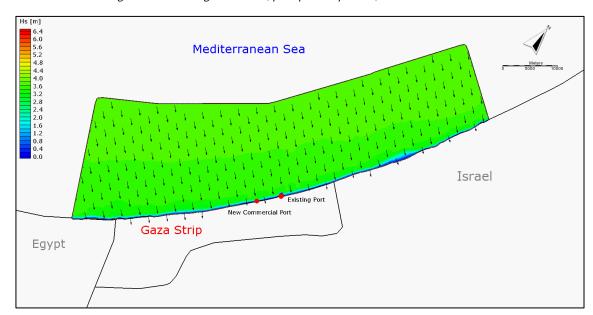












Figure 59. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 4.5m, peak period Tp = 9s, and wave direction Dir= 310 °N.

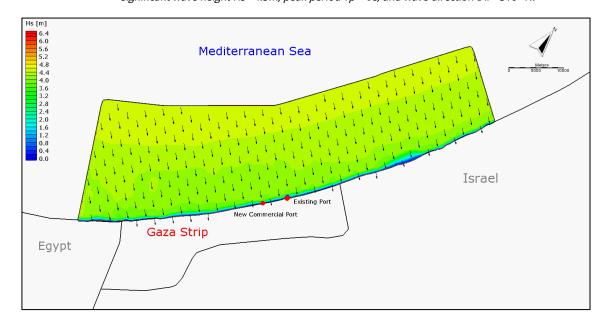


Figure 60. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=0.25m, peak period Tp=2.1s, and wave direction Dir=320 °N.

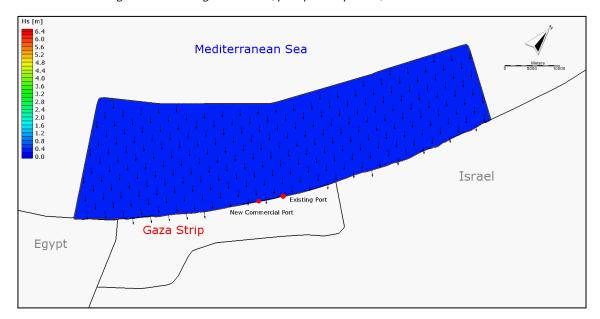












Figure 61. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.75m, peak period Tp = 3.7s, and wave direction Dir = 320 °N.

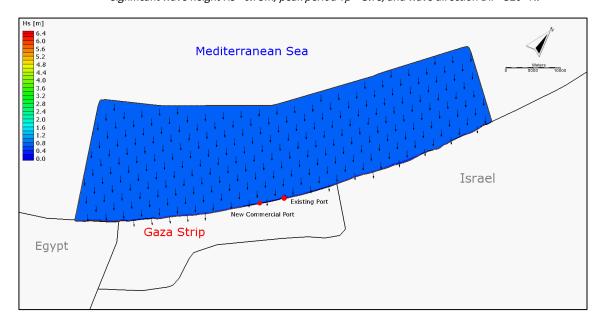


Figure 62. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction  $Dir = 320 \, ^{\circ}N$ .

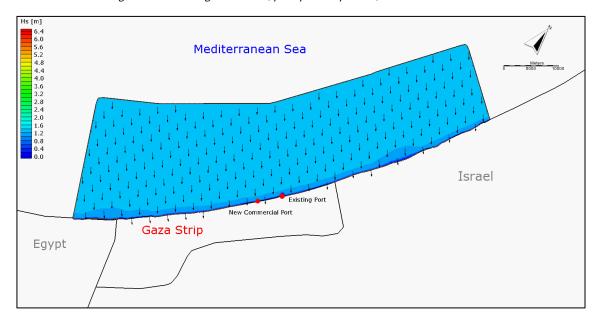












Figure 63. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction Dir= 320 °N.

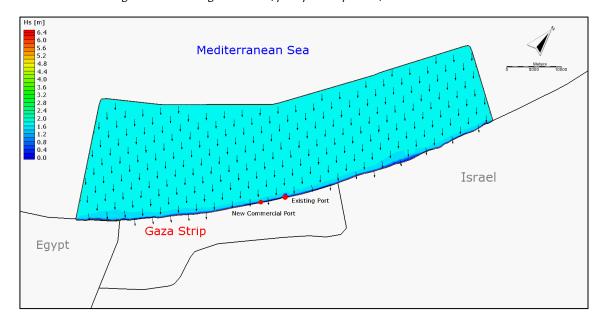


Figure 64. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir=  $320 \, ^{\circ}$ N.

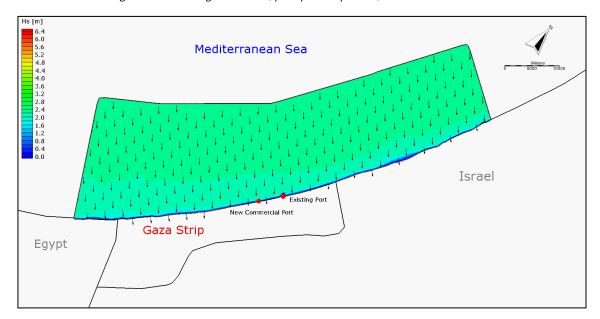












Figure 65. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.8m, peak period Tp = 7.1s, and wave direction Dir= 320 °N.

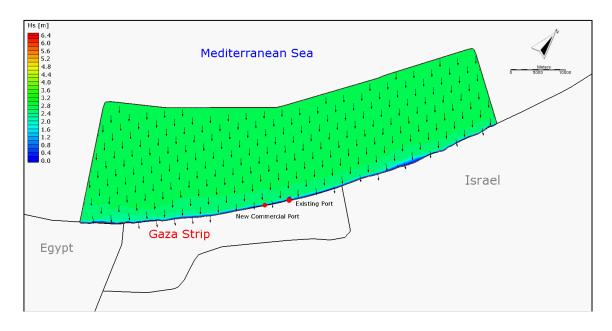


Figure 66. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction Dir=  $320 \, ^{\circ}$ N.

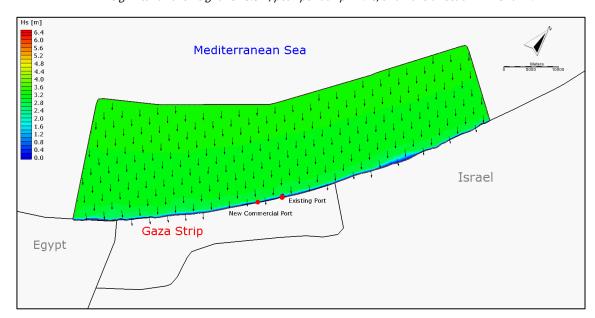












Figure 67. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.8m, peak period Tp = 8.3s, and wave direction Dir=320 °N.

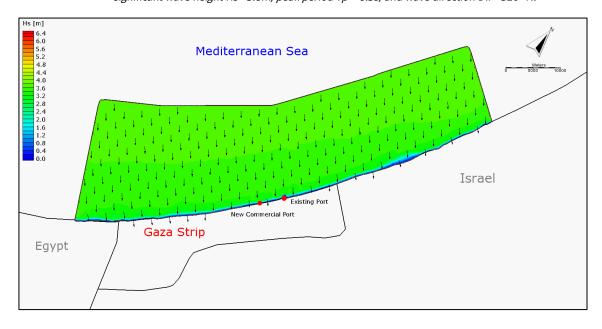


Figure 68. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 4.5m, peak period Tp = 9s, and wave direction Dir= 320 °N.

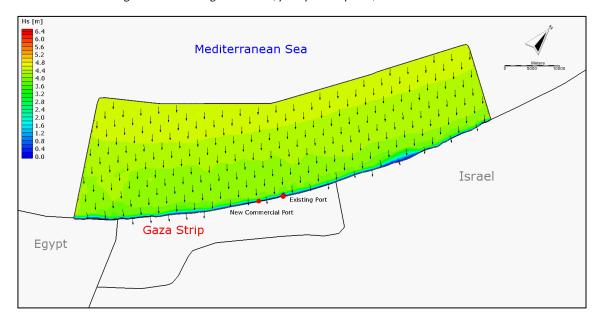














Figure 69. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.25m, peak period Tp = 2.1s, and wave direction Dir= 330 °N.

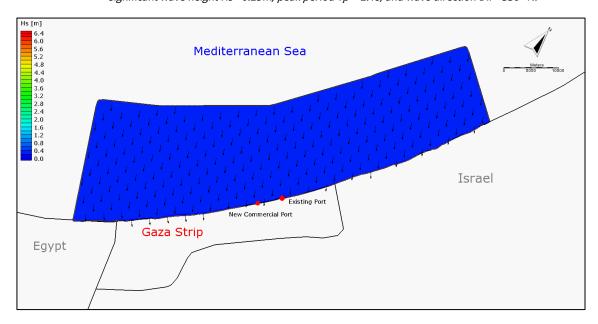


Figure 70. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.75m, peak period Tp = 3.7s, and wave direction Dir = 330 °N.

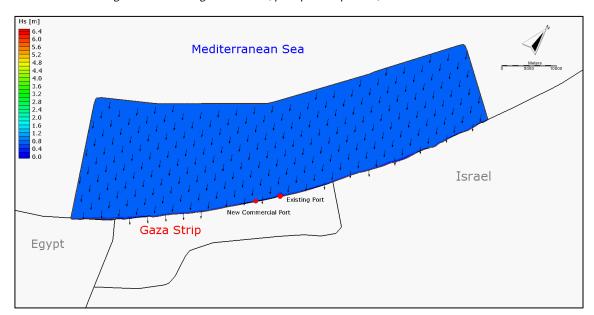












Figure 71. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction Dir= 330 °N.

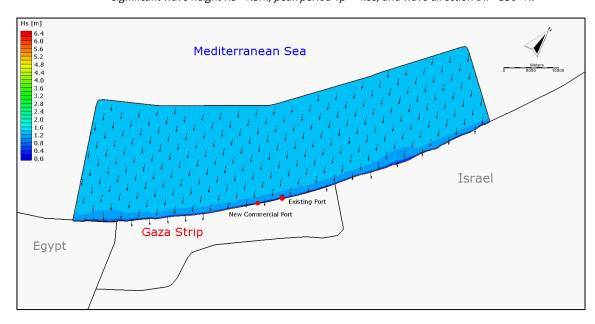


Figure 72. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction  $Dir=330 \, ^{\circ}N$ .

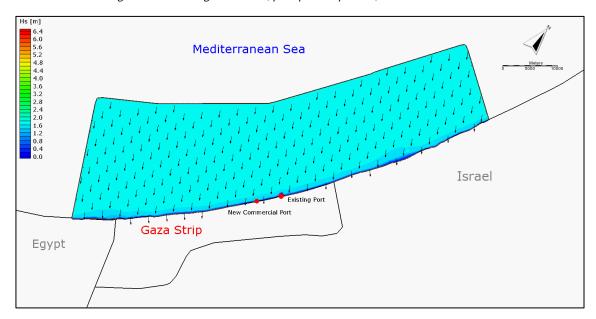














Figure 73. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir= 330 °N.

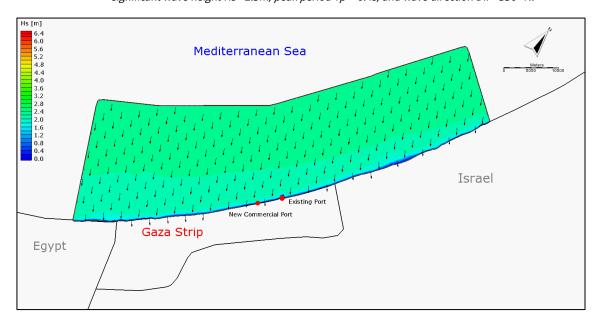


Figure 74. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.8m, peak period Tp = 7.1s, and wave direction Dir=  $330 \, ^{\circ}$ N.

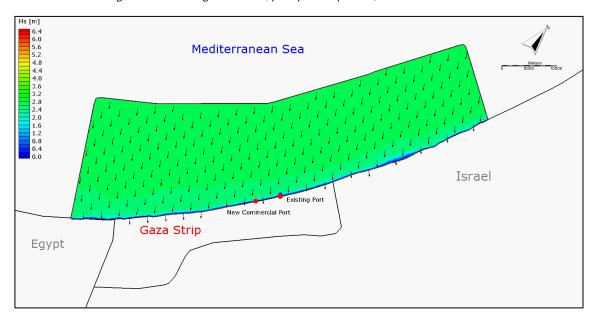












Figure 75. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction  $Dir=330 \, ^{\circ}N$ .

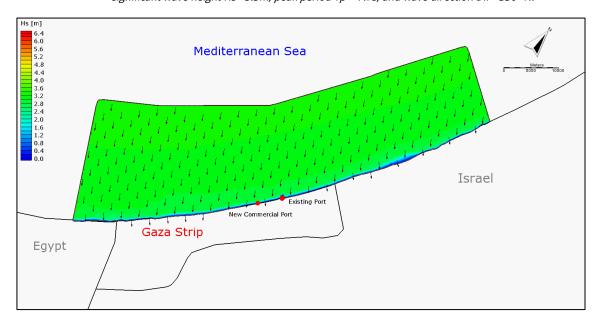


Figure 76. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.8m, peak period Tp = 8.3s, and wave direction Dir=  $330 \, ^{\circ}$ N.

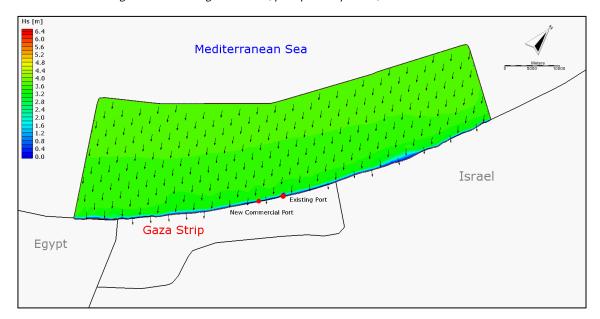














Figure 77. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 4.5m, peak period Tp = 9s, and wave direction Dir= 330 °N.

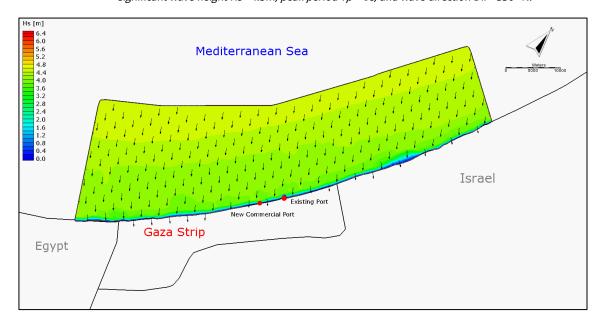


Figure 78. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs=0.25m, peak period Tp=2.1s, and wave direction Dir=340 °N.

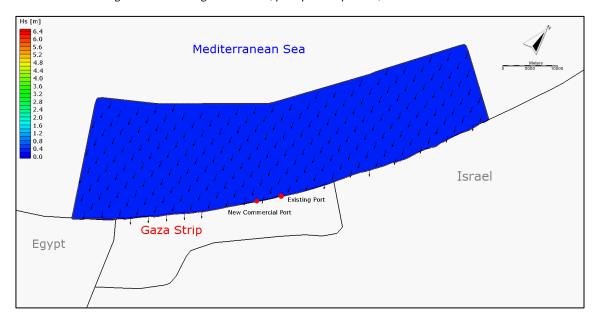












Figure 79. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.75m, peak period Tp = 3.7s, and wave direction Dir= 340 °N.

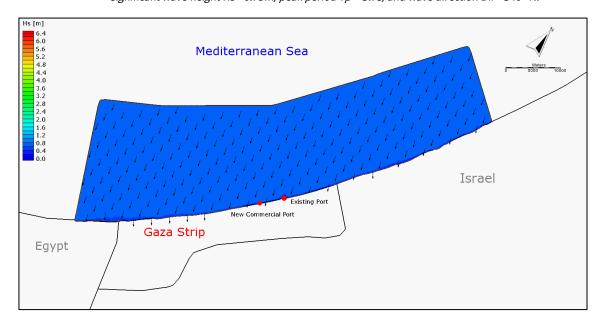


Figure 80. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction  $Dir = 340 \, ^{\circ}N$ .

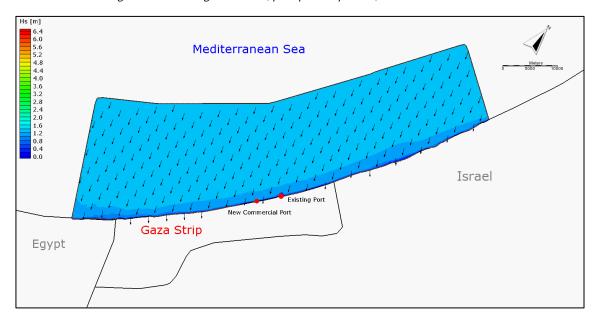














Figure 81. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction Dir= 340 °N.

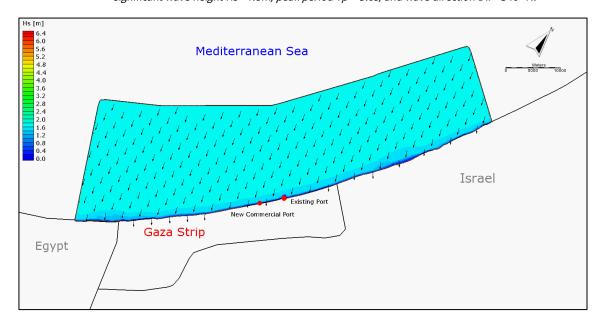


Figure 82. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir= 340 °N.

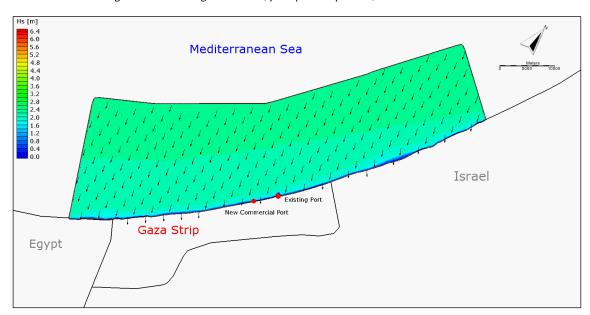












Figure 83. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.8m, peak period Tp = 7.1s, and wave direction Dir= 340 °N.

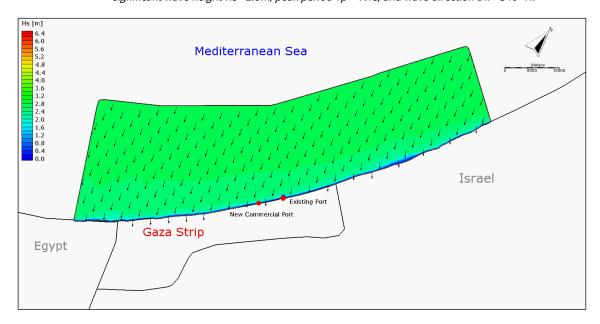


Figure 84. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction Dir=  $340 \, ^{\circ}$ N.

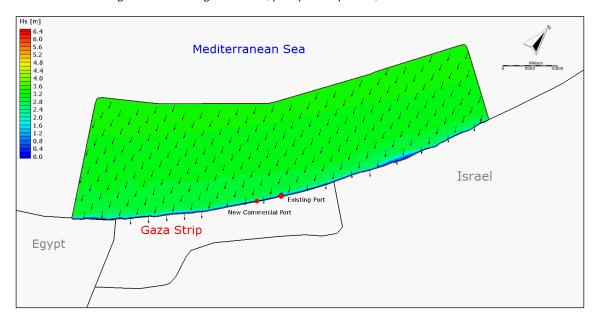














Figure 85. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.8m, peak period Tp = 8.3s, and wave direction Dir= 340 °N.

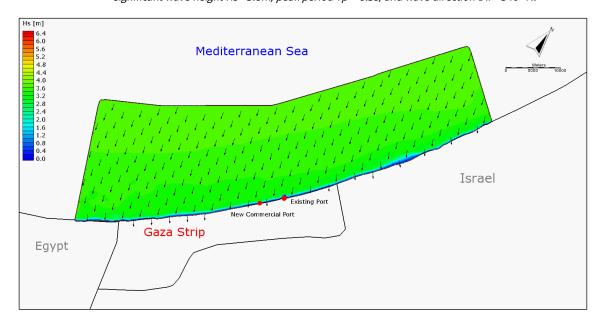


Figure 86. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 4.5m, peak period Tp = 9s, and wave direction Dir= 340 °N.

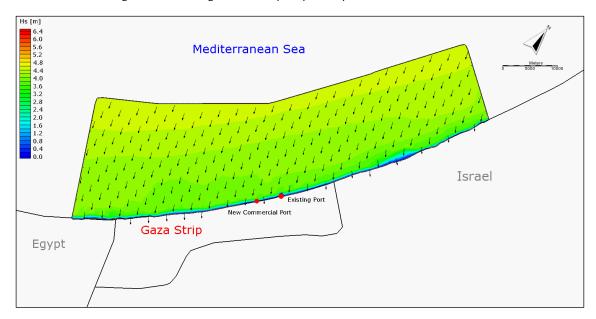














Figure 87. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 0.25m, peak period Tp = 2.1s, and wave direction Dir= 350 °N.

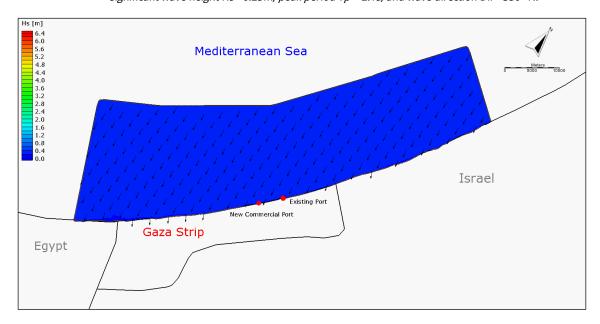


Figure 88. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs = 0.75m, peak period Tp = 3.7s, and wave direction Dir = 350 °N.

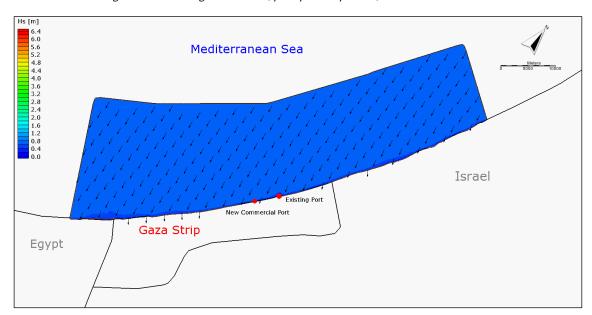












Figure 89. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.3m, peak period Tp = 4.8s, and wave direction Dir= 350 °N.

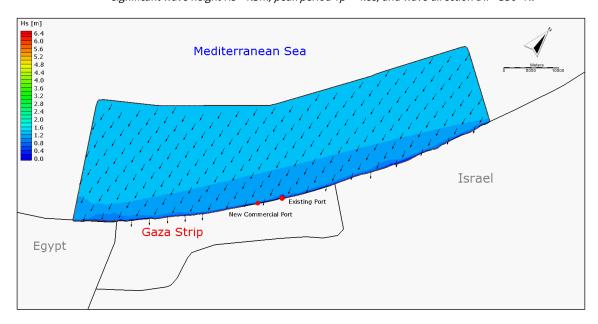


Figure 90. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 1.8m, peak period Tp = 5.6s, and wave direction  $Dir = 350 \, ^{\circ}N$ .

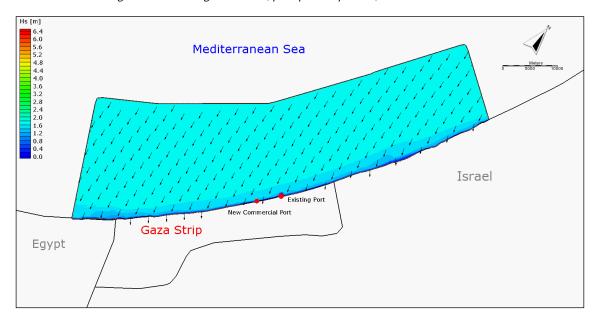














Figure 91. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.3m, peak period Tp = 6.4s, and wave direction Dir= 350 °N.

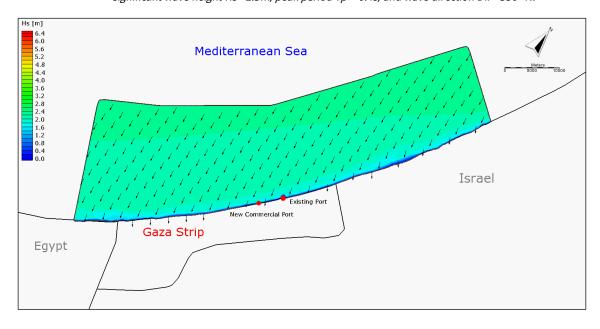


Figure 92. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 2.8m, peak period Tp = 7.1s, and wave direction Dir=  $350 \, ^{\circ}$ N.

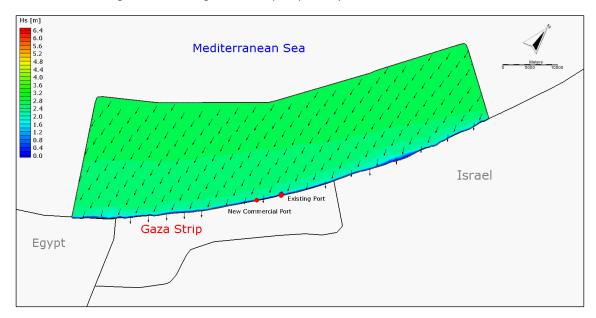






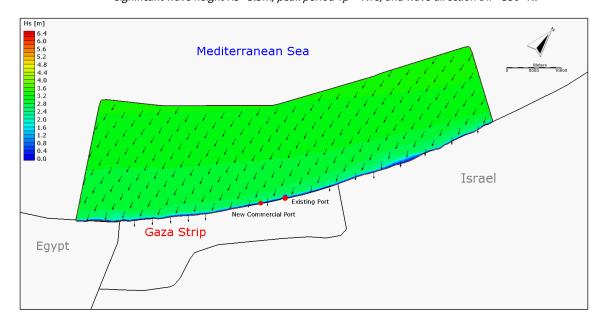








Figure 93. Spatial distribution of significant wave height. The arrows indicate the wave direction. Boundary conditions: significant wave height Hs= 3.3m, peak period Tp = 7.7s, and wave direction Dir=350 °N.















# 2. Costs Analysis for Maritime Transport Proposed Projects

## Costs Analysis for the Rehabilitation of Gaza Fishery Port

Tab 1. Main Costs for Rehabilitation of Gaza Fishery Port - Layout 1

Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)
PHASE 1				
DEFENSE WORKS				
Breakwater phase 1 (up to -8,00m)	1,010.00	m	22,000.00	22,220,000.00
Inner breakwater phase 1	285.00	m	10,000.00	2,850,000.00
QUAYS				
Quay phase 1 (up to -8,00m)	1,500.00	m	9,000.00	13,500,000.00
OPERATIONAL FORECOURTS				
Operational forecourt phase 1	230,000.00	m²	60.00	13,800,000.00
FILLING				
Filling phase 1 (up to +2,00m)	630,000.00	m³	8.00	5,040,000.00
ESCAVATION				
Escavation phase 1 (up to -8,00m)	1,320,000.00	m³	5.00	6,600,000.00
Mooring arrangements				
Mooring arrangements - phase 1			750,000.00	750,000.00
Elettrical, water and sprinkler systems				
Elettrical, water and sprinkler systems - phase 1			1,100,000.00	1,100,000.00
PIERS				
Pier phase 1	570.00	m	2,000.00	1,140,000.00
				67,000,000.00

Tab 2. Main Costs for Rehabilitation of Gaza Fishery Port - Layout 2

Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)
PHASE 1				
DEFENSE WORKS				
Breakwater phase 1 (up to -8,00m)	1,010.00	m	22,000.00	22,220,000.00
Inner breakwater phase 1	285.00	m	10,000.00	2,850,000.00
QUAYS				
Quay phase 1 (up to -8,00m)	1,900.00	m	9,000.00	17,100,000.00
OPERATIONAL FORECOURTS				
Operational forecourt phase 1	156,870.00	m²	60.00	9,412,200.00
FILLING				
Filling phase 1 (up to +2,00m)	628,000.00	m³	8.00	5,024,000.00
ESCAVATION				
Escavation phase 1 (up to -8,00m)	1,350,000.00	m³	5.00	6,750,000.00
Mooring arrangements				
Mooring arrangements - phase 1			493,800.00	493,800.00
Elettrical, water and sprinkler systems				
Elettrical, water and sprinkler systems - phase 1			900,000.00	900,000.00
PIERS				
Pier phase 1	1,625.00	m	2,000.00	3,250,000.00
				68.000.000.00













## Costs Analysis for the Construction of New Commercial Port in Gaza

Tab 3. Main Costs for New Gaza Commercial Port - Alternative 1 Layout A-S

N°	Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)	Maintenance (% of estimated cost)	Maintenance (€)
	PHASE 1						
	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	690.00	m	30,000.00	20,700,000.00	2.00	414,000.00
	Breakwater phase 1	2,318.00	m	60,000.00	139,080,000.00	2.00	2,781,600.00
1A.3	Temporany inner breakwater phase 1	605.00	m	10,000.00	6,050,000.00	1.00	60,500.00
1B	QUAYS						
	Quay phase 1 (up to -14,00m)	3,100.00	m	28,000.00	86,800,000.00	1.50	1,302,000.00
1C	OPERATIONAL FORECOURTS						
1C.1	Operational forecourt phase 1	573,500.00	m²	70.00	40,145,000.00	2.00	802,900.00
1D	FILLING						
1D.1	Filling phase 1 (up to +2,00m)	4,580,800.00	m³	12.00	54,969,600.00	-	-
1E	ESCAVATION						
1E.1	Escavation phase 1 (up to -10,00m)	233,400.00	m³	8.00	1,867,200.00	-	-
1F	Mooring arrangements	·					
1F.1	Mooring arrangements - phase 1		a corpo	2,500,000.00	2,500,000.00	1.00	25,000.00
	Elettrical, water and sprinkler systems			,,	,,		-,
	Elettrical, water and sprinkler systems - phase 1		a corpo	3,500,000.00	3,500,000.00	10.00	350,000.00
1H	PIERS		а сс.рс	0,000,000.00	0,000,000.00	10.00	000,000.00
	Pier phase 1	0.00	m	5,000.00	0.00	2.00	
	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
-1	Oranes phase i	1.00		0,000,000.00	363,611,800.00	10.00	6,536,000.00
					303,011,000.00		0,550,000.00
	PHASE 2						
2A	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	690.00	m	30.000.00	20.700.000.00	2.00	414.000.00
	Breakwater phase 1	2,318.00	m	60,000.00	139,080,000.00	2.00	2,781,600.00
	·	605.00		10,000.00	6,050,000.00	2.00	2,761,000.00
	Temporany inner breakwater phase 1 Inner breakwater phase 2		m	15,000.00	23,625,000.00	2.00	472,500.00
	QUAYS	1,575.00	m	15,000.00	23,625,000.00	2.00	472,500.00
		4.500.00		40.000.00	40,000,000,00	4.50	004 400 00
	Quay phase 2 (up to - 6,00m)	1,580.00	m	12,000.00	18,960,000.00	1.50	284,400.00
	Quay phase 1 (up to -14,00m)	3,100.00	m	28,000.00	86,800,000.00	1.50	1,302,000.00
	Quay phase 2 (up to -14,00m)	1,941.00	m	28,000.00	54,348,000.00	1.50	815,220.00
	OPERATIONAL FORECOURTS		_				
	Operational forecourt phase 1	573,500.00	m²	70.00	40,145,000.00	2.00	802,900.00
	Operational forecourt phase 2	482,600.00	m²	70.00	33,782,000.00	2.00	675,640.00
	FILLING						
	Filling phase 1 (up to +2,00m)	4,580,800.00	m³	12.00	54,969,600.00	-	-
	Filling phase 2 (up to +2,00m)	4,770,700.00	m³	12.00	57,248,400.00	-	-
	ESCAVATION						
	Escavation phase 2 (up to -6,00m)	308,600.00	m³	8.00	2,468,800.00	-	-
2E.2	Escavation phase 1 (up to -10,00m)	233,400.00	m³	8.00	1,867,200.00	-	-
2E.3	Escavation phase 2 (up to -14,00m)	1,949,200.00	m³	8.00	15,593,600.00	-	-
2F	Mooring arrangements						
2F.1	Mooring arrangements - phase 1		a corpo	2,500,000.00	2,500,000.00	1.00	25,000.00
2F.2	Mooring arrangements - phase 2		a corpo	2,000,000.00	2,000,000.00	1.00	20,000.00
	Elettrical, water and sprinkler systems						
2G.1	Elettrical, water and sprinkler systems - phase 1		a corpo	3,500,000.00	3,500,000.00	10.00	350,000.00
2G.2	Elettrical, water and sprinkler systems - phase 2		a corpo	3,000,000.00	3,000,000.00	10.00	300,000.00
	PIERS			. , ,	.,,		
	Pier phase 1	0.00	m	5,000.00	0.00	2.00	_
	Pier phase 2	841.00	m	5,000.00	4,205,000.00	2.00	84,100.00
2l	Cranes phase 1	1.00		8.000.000.00	8.000.000.00	10.00	800.000.00
	Cranes phase 2	5.00		8.000,000.00	40,000,000.00	10.00	4,000,000.00
		3.00				10.00	













### Tab 4. Main Costs for New Gaza Commercial Port - Alternative 1 Layout B-S

N°	Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)	Maintenance (% of estimated cost)	Maintenance (€)
	PHASE 1						
	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	715.00	m	30,000.00	21,450,000.00	2.00	429,000.00
	Breakwater phase 1	1,865.00	m	60,000.00	111,900,000.00	2.00	2,238,000.00
1A.3	Temporany inner breakwater phase 1	630.00	m	10,000.00	6,300,000.00	1.00	63,000.00
1B	QUAYS						
	Quay phase 1 (up to -14,00m)	1,000.00	m	28,000.00	28,000,000.00	1.50	420,000.00
1C	OPERATIONAL FORECOURTS						-
1C.1	Operational forecourt phase 1	505,200.00	m²	70.00	35,364,000.00	2.00	707,280.00
	FILLING						
1D.1	Filling phase 1 (up to +2,00m)	3,031,200.00	m³	12.00	36,374,400.00	-	-
1E	ESCAVATION						
1E.1	Escavation phase 1 (up to -10,00m)	304,500.00	m³	8.00	2,436,000.00	-	-
1F	Mooring arrangements						
1F.1	Mooring arrangements - phase 1		a corpo	1,500,000.00	1,500,000.00	1.00	15,000.00
	Elettrical, water and sprinkler systems						
1G.1	Elettrical, water and sprinkler systems - phase 1		a corpo	2,000,000.00	2,000,000.00	10.00	200,000.00
1H	PIERS						
1H.1	Pier phase 1	0.00	m	5,000.00	0.00	2.00	-
2l	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
					253,324,400.00		4,872,280.00
					,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	PHASE 2						
2A	DEFENSE WORKS						
2A.1	Breakwater phase 1 (up to -8,00m)	715.00	m	30,000.00	21,450,000.00	2.00	429,000.00
	Breakwater phase 1	1,865.00	m	60,000.00	111,900,000.00	2.00	2,238,000.00
	Temporany inner breakwater phase 1	630.00	m	10,000.00	6,300,000.00	-	-
	Inner breakwater phase 2	1,380.00	m	15,000.00	20,700,000.00	2.00	414.000.00
	QUAYS	,		.,	.,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Quay phase 2 (up to -6,00m)	1,220.00	m	12.000.00	14,640,000.00	1.50	219.600.00
	Quay phase 2 (up to -8,00m)	880.00	m	15,000.00	13,200,000.00	1.50	198,000.00
	Quay phase 1 (up to -14,00m)	1.000.00	m	28,000.00	28.000.000.00	1.50	420.000.00
	Quay phase 2 (up to -14,00m)	2,720.00	m	28,000.00	76,160,000.00	1.50	1,142,400.00
	OPERATIONAL FORECOURTS	,		.,	-,,		, , ,
	Operational forecourt phase 1	505,200.00	m²	70.00	35,364,000,00	2.00	707,280.00
	Operational forecourt phase 2	473,900.00	m²	70.00	33,173,000.00	2.00	663,460.00
	FILLING				, ,		,
2D.1	Filling phase 1 (up to +2,00m)	3,031,200.00	m³	12.00	36,374,400.00	-	-
	Filling phase 2 (up to +2,00m)	5,627,000.00	m³	12.00	67,524,000.00	-	-
	ESCAVATION	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			. ,. ,		-
	Escavation phase 2 (up to -6,00m)	237,100.00	m³	8.00	1,896,800.00	-	-
	Escavation phase 2 (up to -8,00m)	76,300.00	m³	8.00	610,400.00	-	-
	Escavation phase 1 (up to -10,00m)	304,500.00	m³	8.00	2,436,000.00	-	-
	Escavation phase 2 (up to -14,00m)	1,509,300.00	m³	8.00	12,074,400.00	-	-
	Mooring arrangements	,,		,,,,,	,. ,		
	Mooring arrangements - phase 1		a corpo	1,500,000.00	1,500,000.00	1.00	15,000.00
	Mooring arrangements - phase 2		a corpo	2,500,000.00	2,500,000.00	1.00	25,000.00
	Elettrical, water and sprinkler systems			,,	, ,		-,
	Elettrical, water and sprinkler systems - phase 1		a corpo	2,000,000.00	2,000,000.00	10.00	200,000.00
	Elettrical, water and sprinkler systems - phase 2		a corpo	4,000,000.00	4,000,000.00	10.00	400,000.00
	PIERS			.,,	.,,	.0.00	,
	Pier phase 1	0.00	m	5,000.00	0.00	2.00	-
	Pier phase 2	645.00	m	5.000.00	3,225,000.00	2.00	64.500.00
	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
	Cranes phase 2	5.00		8,000,000.00	40,000,000.00	10.00	4,000,000.00
- 1		5.00		0,000,000.00	-0,000,000.00	10.00	7,000,000.00













### Tab 5. Main Costs for New Gaza Commercial Port - Alternative 1 Layout C-S

N°	Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)	Maintenance (% of estimated cost)	Maintenance (€)
	PHASE 1						
	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	710.00	m	30,000.00	21,300,000.00	2.00	426,000.00
	Breakwater phase 1	2,190.00	m	60,000.00	131,400,000.00	2.00	2,628,000.00
	Inner breakwater phase 1	1,330.00	m	10,000.00	13,300,000.00	1.00	133,000.00
	QUAYS						-
	Quay phase 1 (up to -14,00m)	1,700.00	m	28,000.00	47,600,000.00	1.50	714,000.00
1C	OPERATIONAL FORECOURTS						-
1C.1	Operational forecourt phase 1	626,000.00	m²	70.00	43,820,000.00	2.00	876,400.00
1D	FILLING						-
1D.1	Filling phase 1 (up to +2,00m)	5,014,400.00	m³	12.00	60,172,800.00	-	-
1E	ESCAVATION						-
1E.1	Escavation phase 1 (up to -10,00m)	1,171,200.00	m³	8.00	9,369,600.00	-	-
1F	Mooring arrangements						-
1F.1	Mooring arrangements - phase 1			2,000,000.00	2,000,000.00	1.00	20,000.00
	Elettrical, water and sprinkler systems						-
	Elettrical, water and sprinkler systems - phase 1			3,000,000.00	3,000,000.00	10.00	300,000.00
	PIERS			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,		-
1H.1	Pier phase 1	0.00	m	5,000.00	0.00	2.00	-
	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
					-,,		,
					339,962,400.00		5,897,400.00
					000,002,400.00		0,007,400.00
	PHASE 2						
2A	DEFENSE WORKS						
	Breakwater phase 2 (up to -8,00m)	710.00	m	30,000.00	21,300,000.00	2.00	426,000.00
	Breakwater phase 2	2.190.00	m	60.000.00	131.400.000.00	2.00	2,628,000.00
	Inner breakwater phase 2	1,330.00	m	10,000.00	13,300,000.00	2.00	266,000.00
	QUAYS	1,550.00		10,000.00	13,300,000.00	2.00	200,000.00
	Quay phase 1 (up to -14,00m)	1,700,00	m	28.000.00	47.600.000.00	1.50	714.000.00
	Quay phase 1 (up to -14,00m)	4,400.00		28,000.00	123,200,000.00	1.50	1,848,000.00
2B.Z	OPERATIONAL FORECOURTS	4,400.00	m	28,000.00	123,200,000.00	1.50	1,848,000.00
	Operational forecourt phase 1	626,000.00	m²	70.00	43,820,000.00	1.50	657,300.00
	Operational forecourt phase 2		m²	70.00	22,680,000.00	1.50	340,200.00
		324,000.00	m-	70.00	22,680,000.00	1.50	340,200.00
	FILLING	5.04.4.400.00		40.00	00.470.000.00	_	
	Filling phase 1 (up to +2,00m)	5,014,400.00	m³	12.00	60,172,800.00		
	Filling phase 2 (up to +2,00m)	2,445,600.00	m³	12.00	29,347,200.00	-	-
	ESCAVATION	4 474 000 00		0.00	0.000.000.00		
	Escavation phase 1 (up to -10,00m)	1,171,200.00	m³	8.00	9,369,600.00	-	-
	Escavation phase 2 (up to -14,00m)	3,626,900.00	m³	8.00	29,015,200.00	-	-
	Mooring arrangements						
	Mooring arrangements - phase 1			2,000,000.00	2,000,000.00	1.00	20,000.00
	Mooring arrangements - phase 2	-		2,500,000.00	2,500,000.00	1.00	25,000.00
	Elettrical, water and sprinkler systems						
	Elettrical, water and sprinkler systems - phase 1			3,000,000.00	3,000,000.00	10.00	300,000.00
	Elettrical, water and sprinkler systems - phase 2			3,000,000.00	3,000,000.00	10.00	300,000.00
	PIERS	1					
	Pier phase 1	0.00	m	5,000.00	0.00	2.00	-
	Pier phase 2	645.00	m	5,000.00	3,225,000.00	2.00	64,500.00
21	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
	Cranes phase 2	5.00		8,000,000.00	40,000,000.00	10.00	4,000,000.00
					592,929,800.00		12,389,000.00













### Tab 6. Main Costs for New Gaza Commercial Port - Alternative 1 Layout D-S

N°	Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)	Maintenance (% of estimated cost)	Maintenance (€)
	PHASE 1						
	DEFENSE WORKS						
1A.1	Breakwater phase 1 (up to -8,00m)	700.00	m	30,000.00	21,000,000.00	2.00	420,000.00
1A.2	Breakwater phase 1	2,330.00	m	60,000.00	139,800,000.00	2.00	2,796,000.00
1A.3	Temporany inner breakwater phase 1	560.00	m	10,000.00	5,600,000.00	1.00	56,000.00
1B	QUAYS						
	Quay phase 1 (up to -14,00m)	2,080.00	m	28,000.00	58,240,000.00	1.50	873,600.00
1C	OPERATIONAL FORECOURTS						
1C.1	Operational forecourt phase 1	575,300.00	m²	70.00	40,271,000.00	2.00	805,420.00
1D	FILLING						
1D.1	Filling phase 1 (up to +2,00m)	4,602,400.00	m³	12.00	55,228,800.00	-	-
1E	ESCAVATION						
1E.1	Escavation phase 1 (up to -10,00m)	757,000.00	m³	8.00	6,056,000.00	-	-
1F	Mooring arrangements						
1F.1	Mooring arrangements - phase 1			2,000,000.00	2,000,000.00	1.00	20,000.00
1G	Elettrical, water and sprinkler systems						
1G.1	Elettrical, water and sprinkler systems - phase 1			3,500,000.00	3,500,000.00	10.00	350,000.00
1H	PIERS						
1H.1	Pier phase 1	0.00	m	5,000.00	0.00	2.00	-
21	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
	•				339,695,800.00		6.121.020.00
					,,		-,,-,,,,-
	PHASE 2						
2A	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	700.00	m	40,000.00	28,000,000.00	2.00	560,000.00
	Breakwater phase 1	2.330.00	m	70,000.00	163,100,000.00	2.00	3,262,000.00
	Temporany inner breakwater phase 1	560.00	m	10,000.00	5,600,000.00	2.00	112,000.00
	Inner breakwater phase 2	1,450.00	m	15,000.00	21,750,000.00	2.00	435,000.00
2B	QUAYS	1,100100		,			,
	Quay phase 1 (up to -14,00m)	2,080.00	m	28,000.00	58,240,000.00	1.50	873,600.00
	Quay phase 2 (up to -14,00m)	2,620.00	m	28,000.00	73,360,000.00	1.50	1,100,400.00
2C	OPERATIONAL FORECOURTS	_,,			,,		.,,
_	Operational forecourt phase 1	575,300.00	m²	70.00	40,271,000.00	1.50	604,065.00
	Operational forecourt phase 2	712,200.00	m²	70.00	49,854,000.00	1.50	747,810.00
	FILLING	7.12,200.00		7 0.00	10,001,000.00	1.00	7 11 (010.00
	Filling phase 1 (up to +2,00m)	4,602,400.00	m³	12.00	55,228,800.00	-	-
	Filling phase 2 (up to +2,00m)	5.561.100.00	m³	12.00	66,733,200,00	-	_
2E	ESCAVATION	0,001,100100					
	Escavation phase 1 (up to -10,00m)	757,000.00	m³	8.00	6,056,000.00	_	-
	Escavation phase 2 (up to -14,00m)	4,992,200.00	m³	8.00	39,937,600.00	-	_
	Mooring arrangements	1,002,200.00		0.00	00,007,000.00		
	Mooring arrangements - phase 1			2,000,000.00	2.000.000.00	1.00	20.000.00
	Mooring arrangements - phase 2			2,000,000.00	2,000,000.00	1.00	20,000.00
2G	Elettrical, water and sprinkler systems			2,000,000.00	2,000,000.00	1.00	20,000.00
-	Elettrical, water and sprinkler systems - phase 1			3,500,000.00	3,500,000.00		
	Elettrical, water and sprinkler systems - phase 2			3,500,000.00	3,500,000.00	10.00	350.000.00
2H	PIERS			0,000,000.00	0,000,000.00	10.00	330,030.00
	Pier phase 1	0.00	m	5,000.00	0.00	2.00	
	Pier phase 2	668.00	m	5,000.00	3.340.000.00	2.00	66.800.00
	Cranes phase 1	1.00	111	8,000,000.00	8,000,000.00	10.00	800,000.00
-1	Cranes phase 2	5.00		8,000,000.00	40,000,000.00	10.00	4,000,000.00
	Cialies pilase 2	5.00		0,000,000.00		10.00	
					670,470,600.00		12,951,675.00













### Tab 7. Main Costs for New Gaza Commercial Port - Alternative 1 Layout E-S

N°	Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)	Maintenance (% of estimated cost)	Maintenance (€)
	PHASE 1						
	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	700.00	m	30,000.00	21,000,000.00	2.00	420,000.00
	Breakwater phase 1	1,850.00	m	60,000.00	111,000,000.00	2.00	2,220,000.00
	Temponary inner breakwater phase 1	560.00	m	10,000.00	5,600,000.00	1.00	56,000.00
	QUAYS						
	Quay phase 1 (up to -14,00m)	2,100.00	m	28,000.00	58,800,000.00	1.50	882,000.00
_	OPERATIONAL FORECOURTS						
	Operational forecourt phase 1	605,500.00	m²	70.00	42,385,000.00	2.00	847,700.00
	FILLING						
	Filling phase 1 (up to +2,00m)	4,844,000.00	m³	12.00	58,128,000.00	-	-
	ESCAVATION						
	Escavation phase 1 (up to -10,00m)	759,300.00	m³	8.00	6,074,400.00	-	
	Mooring arrangements						
	Mooring arrangements - phase 1			2,000,000.00	2,000,000.00	1.00	20,000.00
	Elettrical, water and sprinkler systems						
	Elettrical, water and sprinkler systems - phase 1			3,500,000.00	3,500,000.00	10.00	350,000.00
-	PIERS						
	Pier phase 1	0.00	m	5,000.00	0.00	2.00	-
21	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
					316,487,400.00		5,595,700.00
	PHASE 2						
	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	700.00	m	30,000.00	21,000,000.00	2.00	420,000.00
	Breakwater phase 1	1,850.00	m	60,000.00	111,000,000.00	2.00	2,220,000.00
	Temponary inner breakwater phase 1	560.00	m	10,000.00	5,600,000.00	-	-
	Inner breakwater phase 2	1,410.00	m	15,000.00	21,150,000.00	2.00	423,000.00
	QUAYS						
	Quay phase 1 (up to -14,00m)	2,100.00	m	28,000.00	58,800,000.00	1.50	882,000.00
	Quay phase 2 (up to -14,00m)	1,900.00	m	28,000.00	53,200,000.00	1.50	798,000.00
_	OPERATIONAL FORECOURTS						
	Operational forecourt phase 1	605,500.00	m²	70.00	42,385,000.00	1.50	635,775.00
-	Operational forecourt phase 2	163,100.00	m²	70.00	11,417,000.00	1.50	171,255.00
	FILLING						
	Filling phase 1 (up to +2,00m)	4,844,000.00	m³	12.00	58,128,000.00	-	•
	Filling phase 2 (up to +2,00m)	1,168,700.00	m³	12.00	14,024,400.00	-	-
	ESCAVATION						
	Escavation phase 1 (up to -10,00m)	759,300.00	m³	8.00	6,074,400.00	-	-
	Escavation phase 2 (up to -14,00m)	3,165,900.00	m³	8.00	25,327,200.00	-	-
	Mooring arrangements						
	Mooring arrangements - phase 1			2,000,000.00	2,000,000.00	1.00	20,000.00
	Mooring arrangements - phase 2			1,500,000.00	1,500,000.00	1.00	15,000.00
	Elettrical, water and sprinkler systems						
	Elettrical, water and sprinkler systems - phase 1			3,500,000.00	3,500,000.00	10.00	350,000.00
	Elettrical, water and sprinkler systems - phase 2			2,500,000.00	2,500,000.00	10.00	250,000.00
	PIERS						
	Pier phase 1	0.00	m	5,000.00	0.00	2.00	
	Pier phase 2	660.00	m	5,000.00	3,300,000.00	2.00	66,000.00
	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
	Cranes phase 2	5.00		8,000,000.00	40,000,000.00	10.00	4,000,000.00
					488,906,000.00		11,051,030.00













### Tab 8. Main Costs for New Gaza Commercial Port - Alternative 1 Layout F-S

N°	Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)	Maintenance (% of estimated cost)	Maintenance (€)
	PHASE 1						
	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	700.00	m	30,000.00	21,000,000.00	2.00	420,000.00
	Breakwater phase 1	2,300.00	m	60,000.00	138,000,000.00	2.00	2,760,000.00
	Temponary inner breakwater phase 1	700.00	m	10,000.00	7,000,000.00	1.00	70,000.00
	Inner breakwater phase 1	750.00	m	15,000.00	11,250,000.00	2.00	
	QUAYS						
	Quay phase 1 (up to -14,00m)	2,510.00	m	28,000.00	70,280,000.00	1.50	1,054,200.00
1C	OPERATIONAL FORECOURTS						
	Operational forecourt phase 1	443,500.00	m²	70.00	31,045,000.00	1.50	465,675.00
	FILLING						
1D.1	Filling phase 1 (up to +2,00m)	3,548,000.00	m³	12.00	42,576,000.00	-	1
1E	ESCAVATION						
1E.1	Escavation phase 1 (up to - 6,00m)	217,720.00	m³	8.00	1,741,760.00	-	
1E.2	Escavation phase 1 (up to - 8,00m)	223,750.00	m³	8.00	1,790,000.00	-	-
	Mooring arrangements						
	Mooring arrangements - phase 1			2,200,000.00	2,200,000.00	1.00	22,000.00
	Elettrical, water and sprinkler systems			,,	,,.,.,.		,
1G.1	Elettrical, water and sprinkler systems - phase 1			2,500,000.00	2,500,000.00	10.00	250,000.00
	PIERS			,	,,		,,
1H.1	Pier phase 1	720.00	m	5,000.00	3,600,000.00	2.00	72,000.00
21	Cranes phase 1	1.00		8,000,000.00	8,000,000.00		800,000.00
	•				340,982,760.00		5,913,875.00
					,		2,010,01010
	PHASE 2						
2A	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	700.00	m	30.000.00	21.000.000.00	2.00	420.000.00
	Breakwater phase 1	2,300.00	m	60,000.00	138,000,000.00	2.00	2,760,000.00
	Temponary inner breakwater phase 1	700.00	m	10,000.00	7,000,000.00		-
	Inner breakwater phase 1	750.00	m	15,000.00	11,250,000.00	2.00	225,000.00
	Inner breakwater phase 2	660.00	m	15,000.00	9,900,000.00		198,000.00
	QUAYS			10,000.00	2,222,222.22		100,000.00
1B.1	Quay phase 1 (up to -14,00m)	2,510.00	m	28,000.00	70,280,000.00	1.50	1,054,200.00
	Quay phase 2 (up to -14,00m)	2,180.00	m	28,000.00	61,040,000.00		915,600.00
2C	OPERATIONAL FORECOURTS				51,510,00000		-
	Operational forecourt phase 1	443,500.00	m²	70.00	31,045,000.00	1.50	465,675.00
	Operational forecourt phase 2	545,070.00	m²	70.00	38,154,900.00	1.50	572,323.50
	FILLING	040,070.00		7 0.00	00,104,000.00	1.00	-
_	Filling phase 1 (up to +2,00m)	3,548,000.00	m³	12.00	42,576,000.00	-	-
	Filling phase 1 (up to +2,00m)	4,360,560.00	m³	12.00	52,326,720.00	-	<u> </u>
	ESCAVATION	-,500,500.00	- 111	12.00	52,520,720.00		-
	Escavation phase 1 (up to - 6,00m)	217,720.00	m³	8.00	1,741,760.00	_	-
	Escavation phase 1 (up to - 8,00m)	223,750.00	m³	8.00	1,741,760.00	-	-
	Escavation phase 1 (up to - 8,00m) Escavation phase 2 (up to -14,00m)	5,307,730.00	m³	8.00	42,461,840.00	-	-
		0,301,130.00	m	8.00	42,401,840.00	-	-
	Mooring arrangements	+		2 200 000 00	2 200 000 00	1.00	-
	Mooring arrangements - phase 1	+		2,200,000.00	2,200,000.00	1.00	20,000,00
	Mooring arrangements - phase 2	+		2,000,000.00	2,000,000.00	1.00	20,000.00
	Elettrical, water and sprinkler systems	+		2 500 000 00	2 500 002 02	40.00	-
	Elettrical, water and sprinkler systems - phase 1	+		2,500,000.00	2,500,000.00	10.00	250,000,00
	Elettrical, water and sprinkler systems - phase 2	+		3,500,000.00	3,500,000.00	10.00	350,000.00
	PIERS	700 00		F 000 00	0.000.000.00		70.000.00
	Pier phase 1	720.00	m	5,000.00	3,600,000.00	2.00	72,000.00
	Pier phase 2	0.00	m	5,000.00	0.00	2.00	-
21	Cranes phase 1	1.00		8,000,000.00	8,000,000.00		800,000.00
	Cranes phase 2	5.00		8,000,000.00	40,000,000.00	10.00	4,000,000.00
					590,366,220.00		11,852,798.50













### Tab 9. Main Costs for New Gaza Commercial Port - Alternative 1 Layout G-S

1.1.2   Breakweter phase 1	N°	Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)	Maintenance (% of estimated cost)	Maintenance (€)
1A.1 Breakwater phase 1 (up to 8.00m)								
1.1.2   Breakwater phase 1   2,380.00 m   6,000.00   14,600.000.00   2.00   2,832,000.00     1.1.4   Inner breakwater phase 1   760.00 m   15,000.00   1,140,000.00   2.00   228,000.00     1.1.4   Inner breakwater phase 1   760.00 m   15,000.00   1,140,000.00   2.00   228,000.00     1.1.4   Inner breakwater phase 1   760.00 m   15,000.00   2,250,000.00   1.50   63,900.00     1.1.5   Inner breakwater phase 1   760.00 m   215.00 m   12,000.00   4,260,000.00   1.50   63,900.00     1.1.5   Inner breakwater phase 1   760.00 m   215.00 m   760.00 m   225,000.00   1.50   43,875.00     1.1.5   OPERATIONAL FORECOURTS   772,000.00 m²   770.00   28,504,000.00   1.50   427,560.00     1.1.5   Fill Special full to 1,200m   772,000.00 m²   770.00   28,504,000.00   1.50   427,560.00     1.1.5   Inner break full to 1,200m   772,000.00 m²   8.00   1,002,000.00   1.50   1,002,000.00     1.1.5   Electrical phase 1 (tip to 2,00m)   120,000.00 m²   8.00   1,002,000.00   1.50   1,002,000.00     1.1.5   Electrical water and sprinkler systems   1.50   1,000.00 m²   8.00   1,002,000.00   1.00   2,000,000.00								
1.1.3   Temponary inner breakwater phase 1   \$60.00 m   1,000.000   3,600,000.00   2.00   228,000.00   18	1A.1	Breakwater phase 1 (up to -8,00m)		m				372,000.00
1.1.4   Invert breakwater phase 1				m		, ,		
18   QUAYS	1A.3	Temponary inner breakwater phase 1		m				36,000.00
18-1   Cleary phase 1 (up to 4,00m)			760.00	m	15,000.00	11,400,000.00	2.00	228,000.00
18.12   Carp y phase 1 (up to 1-4.00m)								
18.3   Casy phase 1 (up to -14,00m)	1B.1	Quay phase 1 (up to -6,00m)	355.00	m	12,000.00	4,260,000.00	1.50	63,900.00
10   OPERATIONAL FORECOURTS								48,375.00
10.1   Operational forecourt phase 1			1,730.00	m	28,000.00	48,440,000.00	1.50	726,600.00
10   FILLING								
10.1   Filling phase 1 (up to -2,00m)   3,626,400.00   m²   12.00   43,516,800.00   .     .     .     .		Operational forecourt phase 1	407,200.00	m²	70.00	28,504,000.00	1.50	427,560.00
ESCAVATION	1D	FILLING						
IEEL   Escavation phase 1 (up to - 6,00m)	1D.1	Filling phase 1 (up to +2,00m)	3,626,400.00	m³	12.00	43,516,800.00	-	-
TELE   Secaretion phase 1 (up to - 8,00m)   128,000.00   m²   8.00   1,024,000.00								
F							_	
15.1   Mooring arrangements - phase 1   2,000,000.00   2,000.000.00   1.00   20,000.000	1E.2	Escavation phase 1 (up to - 8,00m)	128,000.00	m³	8.00	1,024,000.00	-	-
Test		ŭ ŭ						
1631   Eletrical, water and sprinkler systems - phase 1					2,000,000.00	2,000,000.00	1.00	20,000.00
H	1G	Elettrical, water and sprinkler systems						
11-11   Pier phase 1					2,100,000.00	2,100,000.00	10.00	210,000.00
Cranes phase 1	1H	PIERS						
PHASE 2	1H.1	Pier phase 1	720.00	m	5,000.00	3,600,000.00	2.00	72,000.00
PHASE 2	21	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
DEFENSE WORKS						320,829,800.00		5,836,435.00
DEFENSE WORKS								
2A.1 Breakwater phase 1 (up to -8,00m) 620.00 m 30,000.00 18,600,000.00 2.00 372,000.00 2A.2 Breakwater phase 1 2,360.00 m 60,000.00 141,600,000.00 2.00 2,832,000.00 2A.3 Temponary inner breakwater phase 1 360.00 m 10,000.00 3,600,000.00 2A.4 Inner breakwater phase 1 760.00 m 15,000.00 11,400,000.00 2.00 228,000.00 2B QUAYS		PHASE 2						
2A.2 Breakwater phase 1	2A	DEFENSE WORKS						
2A.3 Temponary inner breakwater phase 1 360.00 m 10,000.00 3,600,000.00	2A.1	Breakwater phase 1 (up to -8,00m)	620.00	m	30,000.00	18,600,000.00	2.00	372,000.00
2A.4   hner breakwater phase 1	2A.2	Breakwater phase 1	2,360.00	m	60,000.00	141,600,000.00	2.00	2,832,000.00
28	2A.3	Temponary inner breakwater phase 1	360.00	m	10,000.00	3,600,000.00	-	-
2B.1   Quay phase 1 (up to -6,00m)   355.00 m   12,000.00   4,260,000.00   1.50   63,900.00     2B.2   Quay phase 1 (up to -8,00m)   215.00 m   15,000.00   3,225,000.00   1.50   48,375.00     2B.3   Quay phase 2 (up to -14,00m)   1,730.00 m   28,000.00   48,440,000.00   1.50   726,800.00     2B.4   Quay phase 2 (up to -6,00m)   490.00 m   12,000.00   5,880,000.00   1.50   88,200.00     2B.5   Quay phase 2 (up to -8,00m)   490.00 m   12,000.00   5,880,000.00   1.50   88,200.00     2B.5   Quay phase 2 (up to -14,00m)   2,920.00 m   28,000.00   17,175,000.00   1.50   257,625.00     2B.6   Quay phase 2 (up to -14,00m)   2,920.00 m   28,000.00   17,175,000.00   1.50   1,226,400.00     2C   OPERATIONAL FORECOURTS	2A.4	Inner breakwater phase 1	760.00	m	15,000.00	11,400,000.00	2.00	228,000.00
2B.2   Quay phase 1 (up to -8,00m)	2B	QUAYS						-
2B.3 Quay phase 1 (up to -14,00m)	2B.1	Quay phase 1 (up to -6,00m)	355.00	m	12,000.00	4,260,000.00	1.50	63,900.00
2B.4 Quay phase 2 (up to -6,00m)	2B.2	Quay phase 1 (up to -8,00m)	215.00	m	15,000.00	3,225,000.00	1.50	48,375.00
2B.5 Quay phase 2 (up to -8,00m)	2B.3	Quay phase 1 (up to -14,00m)	1,730.00	m	28,000.00	48,440,000.00	1.50	726,600.00
2B.6 Quay phase 2 (up to -14,00m)	2B.4	Quay phase 2 (up to -6,00m)		m	12,000.00	5,880,000.00	1.50	88,200.00
2C         OPERATIONAL FORECOURTS         407,200.00         m²         70.00         28,504,000.00         1.50         427,560.00           2C.1         Operational forecourt phase 1         407,200.00         m²         70.00         28,504,000.00         1.50         427,560.00           2D.7         FILLING         70.00         37,933,000.00         1.50         568,995.00           2D.1         Filling phase 1 (up to +2,00m)         3,626,400.00         m³         12.00         43,516,800.00         -         -           2D.2         Filling phase 2 (up to +2,00m)         4,915,500.00         m³         12.00         58,986,000.00         -         -         -           2E         ESCAVATION         120,000.00         m³         8.00         960,000.00         -         -         -         -           2E.1         Escavation phase 1 (up to -6,00m)         120,000.00         m³         8.00         960,000.00         -         -         -           2E.2         Escavation phase 2 (up to -14,00m)         21,35,000.00         m³         8.00         1,024,000.00         -         -         -         -           2F.2         Mooring arrangements         Phase 1         2,000,000.00         2,000,000.00         <	2B.5	Quay phase 2 (up to -8,00m)	1,145.00	m	15,000.00	17,175,000.00	1.50	257,625.00
2C.1 Operational forecourt phase 1	2B.6	Quay phase 2 (up to -14,00m)	2,920.00	m	28,000.00	81,760,000.00	1.50	1,226,400.00
2C.2   Operational forecourt phase 2   541,900.00   m²   70.00   37,933,000.00   1.50   568,995.00	2C	OPERATIONAL FORECOURTS						
Page 2	2C.1	Operational forecourt phase 1	407,200.00	m²	70.00	28,504,000.00	1.50	427,560.00
2D.1 Filling phase 1 (up to +2,00m)			541,900.00	m²	70.00	37,933,000.00	1.50	568,995.00
2D.2   Filling phase 2 (up to +2,00m)								
2E         ESCAVATION         -           2E.1         Escavation phase 1 (up to - 6,00m)         120,000.00         m³         8.00         960,000.00         -         -           2E.2         Escavation phase 2 (up to - 4,00m)         128,000.00         m³         8.00         1,024,000.00         -								-
ZE.1         Escavation phase 1 (up to - 6,00m)         120,000.00         m³         8.00         960,000.00         -			4,915,500.00	m³	12.00	58,986,000.00	-	-
2E.2         Escavation phase 1 (up to - 8,00m)         128,000.00         m³         8.00         1,024,000.00         -         -         -         -         2.23         Escavation phase 2 (up to -14,00m)         2,135,000.00         m³         8.00         17,080,000.00         -								-
2E.3         Escavation phase 2 (up to -14,00m)         2,135,000.00         m³         8.00         17,080,000.00         -         -           2F         Mooring arrangements         2         2,000,000.00         2,000,000.00         1.00         20,000.00           2F.1         Mooring arrangements - phase 1         2,500,000.00         2,500,000.00         1.00         25,000.00           2F.2         Biettrical, water and sprinkler systems         -         -         -         -           2G.1         Elettrical, water and sprinkler systems - phase 1         2,100,000.00         2,100,000.00         10.00         210,000.00           2G.2         Elettrical, water and sprinkler systems - phase 2         3,600,000.00         3,600,000.00         10.00         360,000.00           2H         PIERS         -         -         -         -         -           2H.1         Pier phase 1         720.00         m         5,000.00         3,600,000.00         2.00         72,000.00           2H.2         Pier phase 2         0.00         m         5,000.00         0.00         2.00         72,000.00           2I         Cranes phase 1         1.00         8,000,000.00         8,000,000.00         10.00         4,000,000.00			,					-
2F         Mooring arrangements           2F.1         Mooring arrangements - phase 1         2,000,000.00         2,000,000.00         1.00         20,000.00           2F.2         Mooring arrangements - phase 2         2,500,000.00         2,500,000.00         1.00         25,000.00           2G         Elettrical, water and sprinkler systems         - <t< th=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
2F.1 Mooring arrangements - phase 1         2,000,000.00         2,000,000.00         1.00         20,000.00           2F.2 Mooring arrangements - phase 2         2,500,000.00         2,500,000.00         1.00         25,000.00           2G         Elettrical, water and sprinkler systems - phase 1         2,100,000.00         2,100,000.00         10.00         210,000.00           2G.2 Elettrical, water and sprinkler systems - phase 2         3,600,000.00         3,600,000.00         10.00         360,000.00           2H         PIERS			2,135,000.00	m³	8.00	17,080,000.00	-	-
2F.2         Mooring arrangements - phase 2         2,500,000.00         2,500,000.00         1.00         25,000.00           2G         Elettrical, water and sprinkler systems         -	2F	Mooring arrangements						
2G         Elettrical, water and sprinkler systems         -           2G.1         Elettrical, water and sprinkler systems - phase 1         2,100,000.00         2,100,000.00         10.00         210,000.00           2G.2         Elettrical, water and sprinkler systems - phase 2         3,600,000.00         3,600,000.00         10.00         360,000.00           2H. Pier Phase 1         720.00         m         5,000.00         3,600,000.00         2.00         72,000.00           2H.2         Pier phase 2         0.00         m         5,000.00         0.00         2.00         -           2I         Cranes phase 1         1.00         8,000,000.00         8,000,000.00         10.00         800,000.00           Cranes phase 2         5.00         8,000,000.00         40,000,000.00         10.00         4,000,000.00						, ,		20,000.00
2G.1         Elettrical, water and sprinkler systems - phase 1         2,100,000.00         2,100,000.00         10.00         210,000.00           2G.2         Elettrical, water and sprinkler systems - phase 2         3,600,000.00         3,600,000.00         10.00         360,000.00           2H         PIERS         -         -         -         -         -           2H.1         Pier phase 1         720.00         m         5,000.00         3,600,000.00         2.00         72,000.00           2H.2         Pier phase 2         0.00         m         5,000.00         0.00         2.00         -           2I         Cranes phase 1         1.00         8,000,000.00         8,000,000.00         10.00         800,000.00           Cranes phase 2         5.00         8,000,000.00         40,000,000.00         10.00         4,000,000.00					2,500,000.00	2,500,000.00	1.00	25,000.00
2G.2         Elettrical, water and sprinkler systems - phase 2         3,600,000.00         3,600,000.00         10.00         360,000.00           2H         PIERS         -								-
2H         PIERS         5,000.00         3,600,000.00         2.00         72,000.00           2H.1 Pier phase 1         720.00         m         5,000.00         3,600,000.00         2.00         72,000.00           2H.2 Pier phase 2         0.00         m         5,000.00         0.00         2.00         -2.00           2I         Cranes phase 1         1.00         8,000,000.00         8,000,000.00         10.00         800,000.00           Cranes phase 2         5.00         8,000,000.00         40,000,000.00         10.00         4,000,000.00								210,000.00
2H.1         Pier phase 1         720.00         m         5,000.00         3,600,000.00         2.00         72,000.00           2H.2         Pier phase 2         0.00         m         5,000.00         0.00         2.00         -           2I         Cranes phase 1         1.00         8,000,000.00         8,000,000.00         10.00         800,000.00           Cranes phase 2         5.00         8,000,000.00         40,000,000.00         10.00         4,000,000.00					3,600,000.00	3,600,000.00	10.00	360,000.00
2H.2         Pier phase 2         0.00         m         5,000.00         0.00         2.00         -           2I         Cranes phase 1         1.00         8,000,000.00         8,000,000.00         10.00         800,000.00           Cranes phase 2         5.00         8,000,000.00         40,000,000.00         10.00         4,000,000.00								-
21         Cranes phase 1         1.00         8,000,000.00         8,000,000.00         10.00         800,000.00           Cranes phase 2         5.00         8,000,000.00         40,000,000.00         10.00         4,000,000.00				m		, ,		72,000.00
Cranes phase 2         5.00         8,000,000.00         40,000,000.00         10.00         4,000,000.00				m				-
	21	Cranes phase 1						800,000.00
585,743,800.00 12,326,655.00		Cranes phase 2	5.00		8,000,000.00	40,000,000.00	10.00	4,000,000.00
						585,743,800.00		12,326,655.00













Tab 10. Main Costs for New Gaza Commercial Port - Alternative 1 Layout H-S

N°	Description	Estimated	Unit	Estimated	Total	Maintenance (% of	Maintenance (€)
	PHASE 1	Qty		Unit price (€)	Estimated (€)	estimated cost)	``
1A	DEFENSE WORKS						
	Breakwater phase 1 (up to -8,00m)	600.00	m	30,000.00	18,000,000.00	2.00	360,000.00
	Breakwater phase 1	1,950.00	m	60,000.00	117,000,000.00	2.00	2,340,000.00
	Temponary inner breakwater phase 1	530.00	m	10,000.00	5,300,000.00	1.00	53,000.00
1A.4	Inner breakwater phase 1	565.00	m	15,000.00	8,475,000.00	2.00	169,500.00
1B	QUAYS						
1B.1	Quay phase 1 (up to -6,00m)	340.00	m	12,000.00	4,080,000.00	1.50	61,200.00
	Quay phase 1 (up to -8,00m)	630.00	m	15,000.00	9,450,000.00	1.50	141,750.00
	Quay phase 1 (up to -14,00m)	1,440.00	m	28,000.00	40,320,000.00	1.50	604,800.00
1C	OPERATIONAL FORECOURTS						
	Operational forecourt phase 1	387,600.00	m²	70.00	27,132,000.00	1.50	406,980.00
1D	FILLING						
	Filling phase 1 (up to +2,00m)	3,422,400.00	m³	12.00	41,068,800.00	-	-
1E	ESCAVATION	60.070.00	m 3	0.00	400 500 00		
	Escavation phase 1 (up to - 6,00m)	60,070.00	m³ m³	8.00 8.00	480,560.00	-	-
	Escavation phase 1 (up to - 10,00m)	28,720.00	III-	8.00	229,760.00	-	-
1F 1F 1	Mooring arrangements  Mooring arrangements - phase 1			2,100,000.00	2,100,000.00	1.00	21,000.00
1G	Elettrical, water and sprinkler systems			۷,100,000.00	۷,۱۷۵,000.00	1.00	21,000.00
	Elettrical, water and sprinkler systems - phase 1			2,200,000.00	2,200,000.00	10.00	220,000.00
1H	PIERS			2,200,000.00	2,200,000.00	10.00	220,000.00
	Pier phase 1	960.00	m	5,000.00	4,800,000.00	2.00	96,000.00
21	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
				-99,999.00	288,636,120.00	- 99,999.00	5,274,230.00
				00,000.00	200,000,:20.00	00,000.00	0,2. 1,200.00
	PHASE 2						
2A	DEFENSE WORKS						
2A.1	Breakwater phase 1 (up to -8,00m)	600.00	m	30,000.00	18,000,000.00	2.00	360,000.00
2A.2	Breakwater phase 1	1,950.00	m	60,000.00	117,000,000.00	2.00	2,340,000.00
2A.3	Temponary inner breakwater phase 1	530.00	m	10,000.00	5,300,000.00		-
2A.4	Inner breakwater phase 1	565.00	m	15,000.00	8,475,000.00	2.00	169,500.00
2A.4	Inner breakwater phase 2	640.00	m	15,000.00	9,600,000.00	2.00	192,000.00
2B	QUAYS						
	Quay phase 1 (up to -6,00m)	340.00	m	12,000.00	4,080,000.00	1.50	61,200.00
	Quay phase 1 (up to -8,00m)	630.00	m	15,000.00	9,450,000.00	1.50	141,750.00
	Quay phase 1 (up to -14,00m)	1,440.00	m	28,000.00	40,320,000.00	1.50	604,800.00
	Quay phase 2 (up to -6,00m)	535.00	m	12,000.00	6,420,000.00	1.50	96,300.00
	Quay phase 2 (up to -8,00m)	760.00	m	15,000.00	11,400,000.00	1.50	171,000.00
2C	Quay phase 2 (up to -14,00m)  OPERATIONAL FORECOURTS	2,070.00	m	28,000.00	57,960,000.00	1.50	869,400.00
	Operational forecourt phase 1	387,600.00	m²	70.00	27,132,000.00	1.50	406,980.00
	Operational forecourt phase 1	354,820.00	m²	70.00	24,837,400.00	1.50	372,561.00
2D.2	FILLING	354,020.00	- 111	70.00	27,007,400.00	1.30	312,301.00
	Filling phase 1 (up to +2,00m)	3,422,400.00	m³	12.00	41,068,800.00	-	-
	Filling phase 2 (up to +2,00m)	4,001,800.00	m³	12.00	48,021,600.00	-	-
2E	ESCAVATION	,,		12.50	.,,		
	Escavation phase 1 (up to - 6,00m)	60,070.00	m³	8.00	480,560.00	-	-
	Escavation phase 1 (up to - 8,00m)	28,720.00	m³	8.00	229,760.00	-	-
2E.3	Escavation phase 2 (up to -14,00m)	921,920.00	m³	8.00	7,375,360.00	-	-
2F	Mooring arrangements				-		
	Mooring arrangements - phase 1			2,100,000.00	2,100,000.00	1.00	21,000.00
	Mooring arrangements - phase 2			2,200,000.00	2,200,000.00	1.00	22,000.00
2G	Elettrical, water and sprinkler systems						
	Elettrical, water and sprinkler systems - phase 1			2,200,000.00	2,200,000.00	10.00	220,000.00
	Elettrical, water and sprinkler systems - phase 2			3,200,000.00	3,200,000.00	10.00	320,000.00
2H	PIERS	200.55		F 000 00	4 000 000 00	0.00	00 000 00
	Pier phase 1	960.00	m	5,000.00	4,800,000.00	2.00	96,000.00
2H.2	Pier phase 2 Cranes phase 1	0.00	m	5,000.00	0.00	2.00	800,000.00
<u> </u>	Cranes phase 2	1.00 5.00		8,000,000.00	8,000,000.00 40,000,000.00	10.00	
	Granes phase 2	5.00		-99.999.00		10.00	4,000,000.00
				-99,999.00	499,650,480.00	- 99,999.00	11,264,491.00













Tab 11. Main Costs for New Gaza Commercial Port - Alternative 1 Layout I-S

N°	Description	Estimated Qty	Unit	Estimated Unit price (€)	Total Estimated (€)	Maintenance (% of estimated cost)	Maintenance (€)
	PHASE 1						
1A	DEFENSE WORKS						
1A.1	Breakwater phase 1 (up to -8,00m)	600.00	m	30,000.00	18,000,000.00	2.00	360,000.00
	Breakwater phase 1	1,950.00	m	60,000.00		2.00	2,340,000.00
	Temponary inner breakwater phase 1	505.00	m	10,000.00	5,050,000.00	1.00	50,500.00
1A.4	Inner breakwater phase 1	565.00	m	15,000.00	8,475,000.00	2.00	169,500.00
1B	QUAYS						
1B.1	Quay phase 1 (up to -6,00m)	340.00	m	12,000.00	4,080,000.00	1.50	61,200.00
	Quay phase 1 (up to -8,00m)	630.00	m	15,000.00	9,450,000.00	1.50	141,750.00
	Quay phase 1 (up to -14,00m)	1,440.00	m	28,000.00	40,320,000.00	1.50	604,800.00
1C	OPERATIONAL FORECOURTS						
	Operational forecourt phase 1	376,650.00	m²	70.00	26,365,500.00	1.50	395,482.50
	FILLING						
	Filling phase 1 (up to +2,00m)	3,422,400.00	m³	12.00	41,068,800.00	-	-
	ESCAVATION	=======================================			4=0 400 00		
	Escavation phase 1 (up to - 6,00m)	59,800.00	m³	8.00	478,400.00	-	-
	Escavation phase 1 (up to - 10,00m)  Mooring arrangements	29,200.00	m³	8.00	233,600.00	-	-
	Mooring arrangements  Mooring arrangements - phase 1			2,100,000.00	2,100,000.00	1.00	21,000.00
	Elettrical, water and sprinkler systems			2,100,000.00	2,100,000.00	1.00	21,000.00
	Elettrical, water and sprinkler systems - phase 1			2,200,000.00	2,200,000,00	10.00	220,000.00
	PIERS			, ::,:::::	, : ,,:::::0	12.00	3,222.30
1H.1	Pier phase 1	960.00	m	5,000.00	4,800,000.00	2.00	96,000.00
21	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
					287,621,300.00		5,260,232.50
	PHASE 2						
	DEFENSE WORKS	000.00		20,000,00	40,000,000,00	0.00	200 000 00
	Breakwater phase 1 (up to -8,00m) Breakwater phase 1	600.00 1,950.00	m	30,000.00	18,000,000.00 117,000,000.00	2.00 2.00	360,000.00 2,340,000.00
	Temponary inner breakwater phase 1	505.00	m m	10,000.00	5,050,000.00	2.00	2,340,000.00
	Inner breakwater phase 1	565.00	m	15,000.00	8,475,000.00	2.00	169,500.00
	Inner breakwater phase 2	640.00	m	15,000.00	9,600,000.00	2.00	192,000.00
	QUAYS			,			
2B.1	Quay phase 1 (up to -6,00m)	340.00	m	12,000.00	4,080,000.00	1.50	61,200.00
	Quay phase 1 (up to -8,00m)	630.00	m	15,000.00		1.50	141,750.00
	Quay phase 1 (up to -14,00m)	1,440.00	m	28,000.00		1.50	604,800.00
	Quay phase 2 (up to -6,00m)	520.00	m	12,000.00	6,240,000.00	1.50	93,600.00
	Quay phase 2 (up to -8,00m)	820.00	m	15,000.00	12,300,000.00	1.50	184,500.00
	Quay phase 2 (up to -14,00m)  OPERATIONAL FORECOURTS	2,130.00	m	28,000.00	59,640,000.00	1.50	894,600.00
	Operational forecourt phase 1	376,650.00	m²	70.00	26,365,500.00	1.50	395,482.50
	Operational forecourt phase 2	474,760.00	m²	70.00		1.50	498,498.00
	FILLING	,. 22.30		1 2 3 5 6	11, 13,211.00		13,122.30
	Filling phase 1 (up to +2,00m)	3,422,400.00	m³	12.00	41,068,800.00	-	-
2D.2	Filling phase 2 (up to +2,00m)	4,141,700.00	m³	12.00	49,700,400.00	-	-
	ESCAVATION						
	Escavation phase 1 (up to - 6,00m)	59,800.00	m³	8.00	478,400.00	-	-
	Escavation phase 1 (up to - 8,00m)	29,200.00	m³	8.00		-	-
	Escavation phase 2 (up to -14,00m)	1,047,800.00	m³	8.00	8,382,400.00	-	-
	Mooring arrangements  Mooring arrangements - phase 1			2,100,000.00	2 100 000 00	1.00	24 000 00
	Mooring arrangements - phase 1  Mooring arrangements - phase 2			2,300,000.00	2,100,000.00 2,300,000.00	1.00	21,000.00 23,000.00
	Elettrical, water and sprinkler systems			2,300,000.00	2,300,000.00	1.00	23,000.00
	Elettrical, water and sprinkler systems - phase 1			2,200,000.00	2,200,000.00	10.00	220,000.00
	Elettrical, water and sprinkler systems - phase 2			3,400,000.00	3,400,000.00	10.00	340,000.00
	PIERS						-
2H.1	Pier phase 1	960.00	m	5,000.00	4,800,000.00	2.00	96,000.00
2H.2	Pier phase 2	0.00	m	5,000.00	0.00	2.00	-
	Cranes phase 1	1.00		8,000,000.00	8,000,000.00	10.00	800,000.00
	Cranes phase 2	5.00		8,000,000.00	40,000,000.00	10.00	4,000,000.00
				Į	512,417,300.00		11,435,930.50