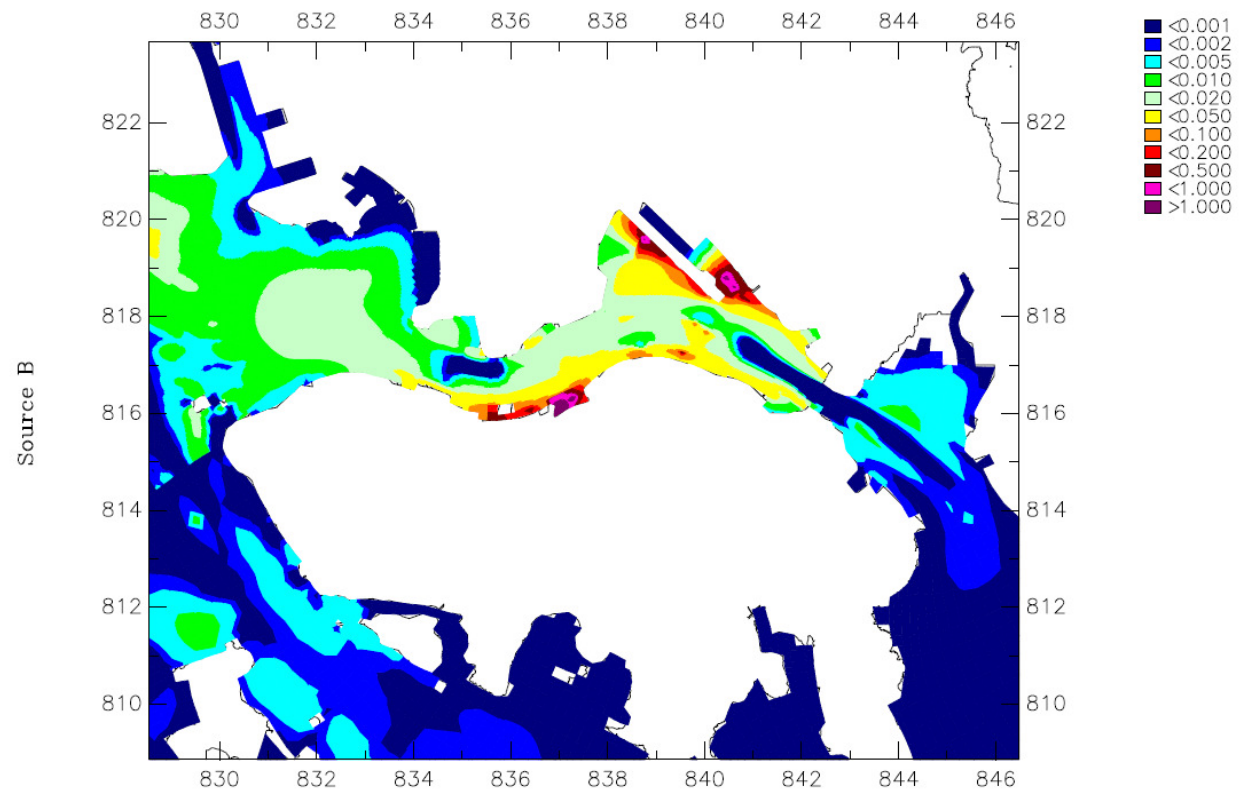
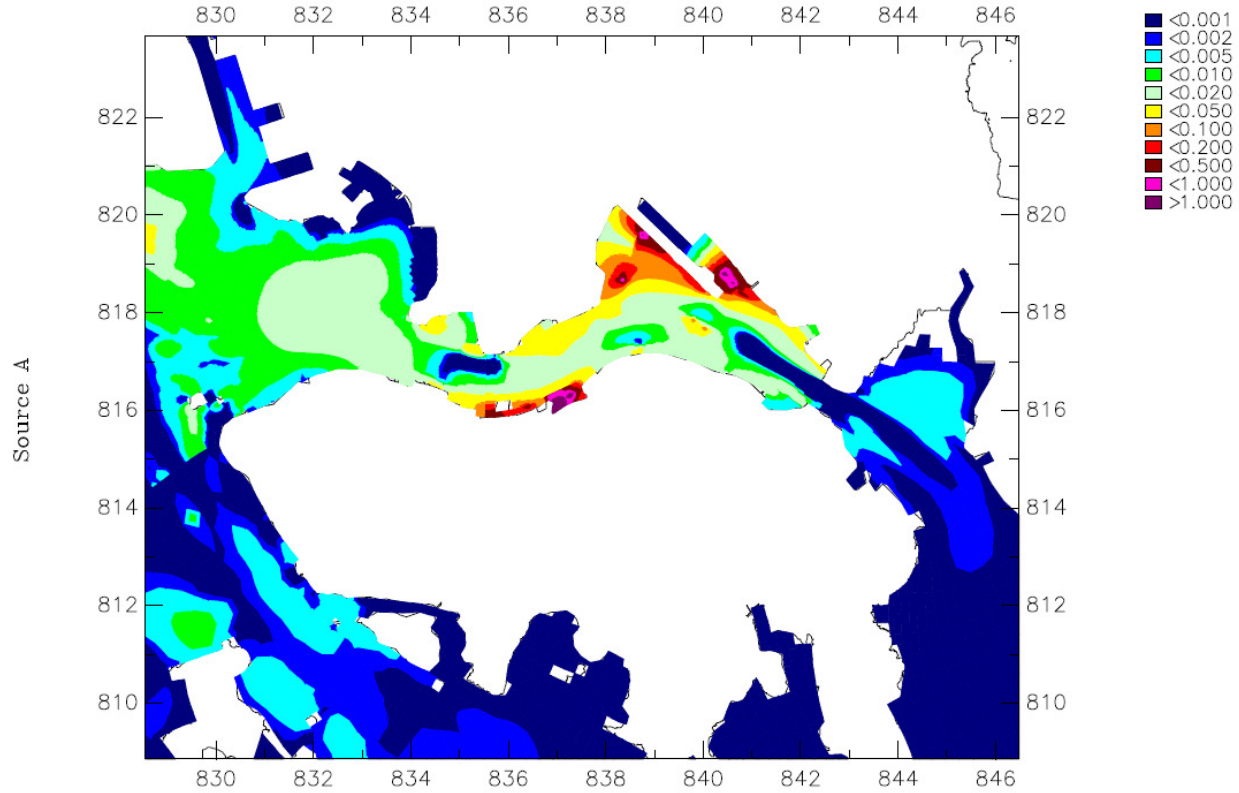


Installation of Submarine Gas Pipelines
and Associated Facilities from
To Kwa Wan to North Point for Former Kai Tak Airport Development
Consultancy Services for Feasibility Study and Detailed Design
Environmental Impact Assessment Report



Appendix B4
Sediment Plume Model Results – Scenario 2 Dry Season



Maximum Deposition Rate (kg/m²/day)

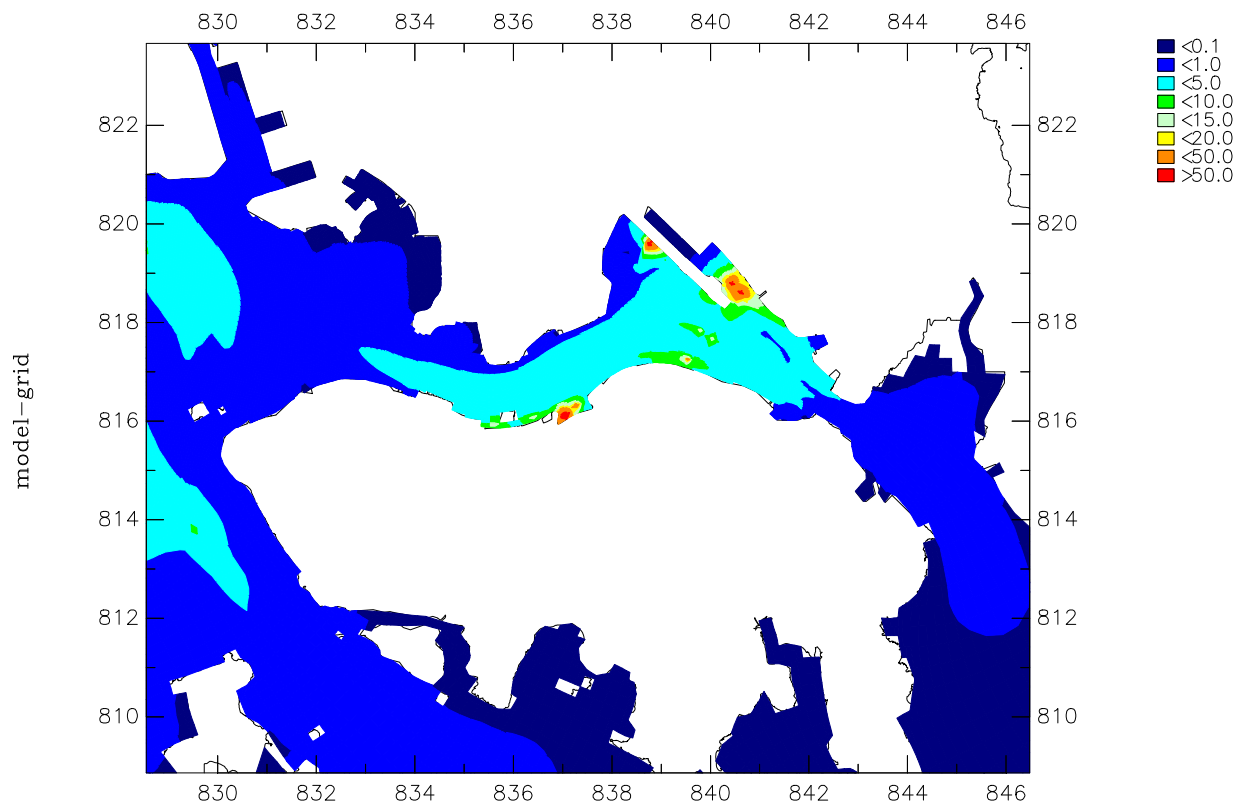
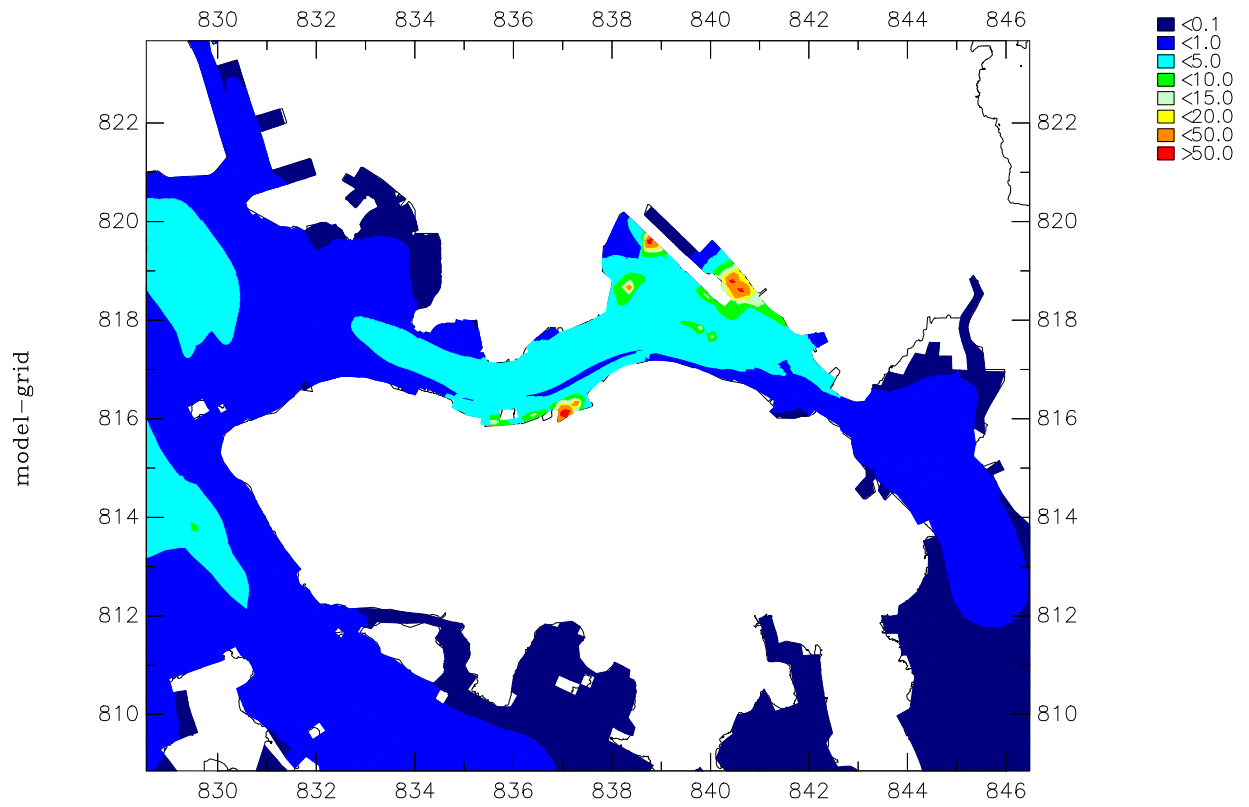
Upper Plot: Dredging Operations at Source A

Lower Plot: Dredging Operations at Source B

Dry Season

Scenario 2

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Maximum Depth-averaged SS Elevations (mg/L)

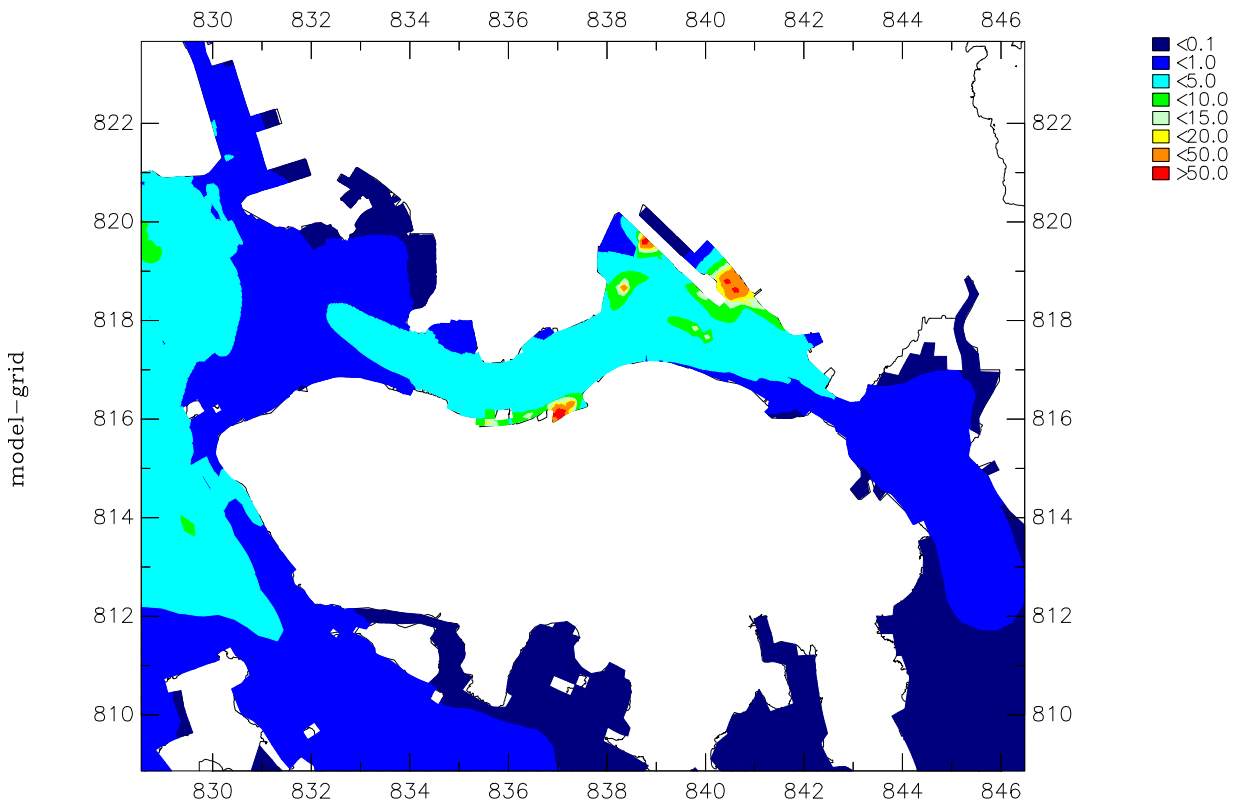
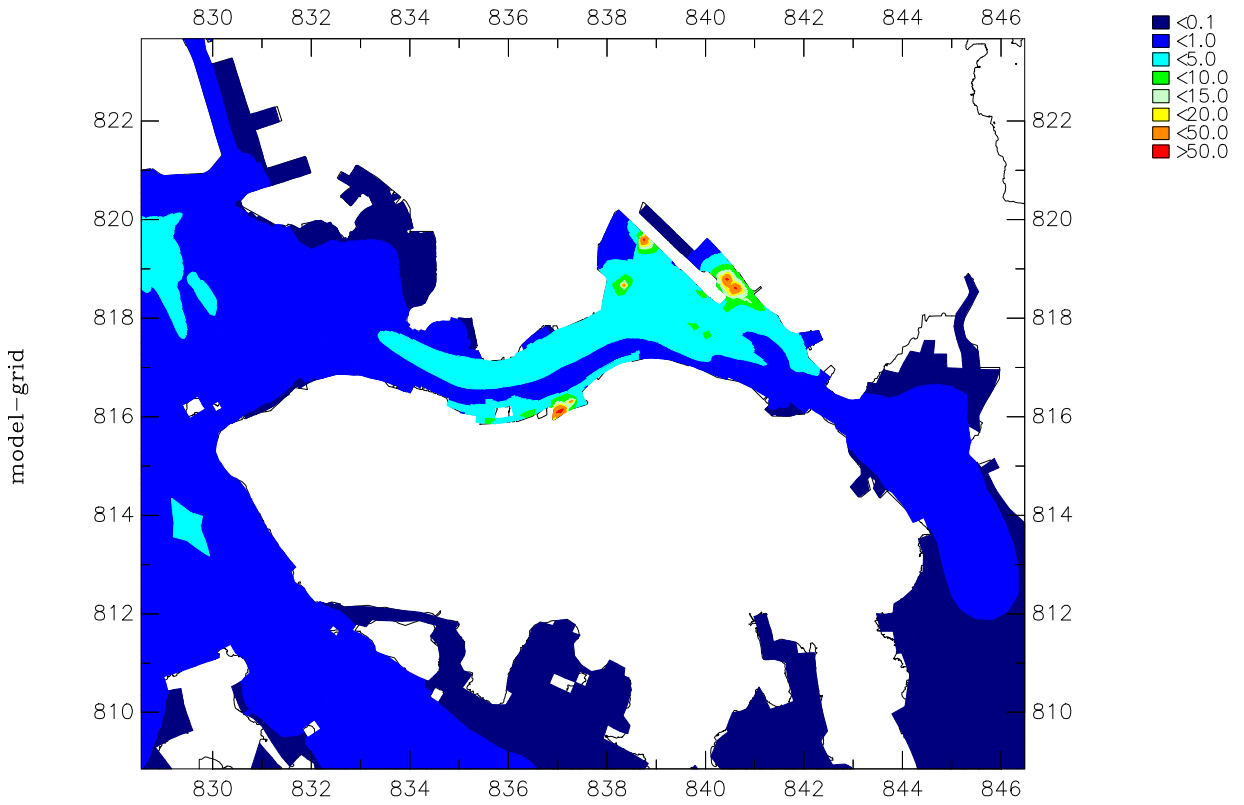
Dry Season

Scenario 2

Upper Plot: Source A (Cumulative)

Lower Plot: Source B (Cumulative)

Mott MacDonald Hong Kong Ltd

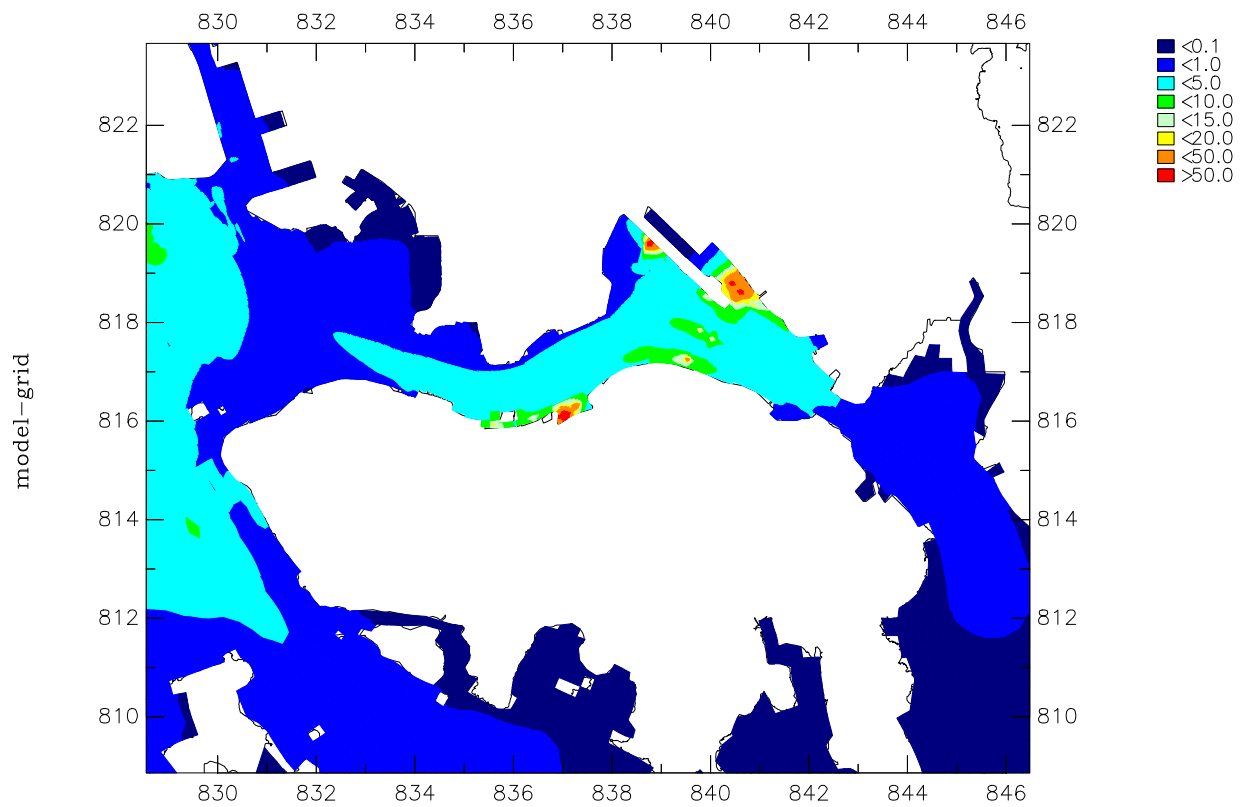
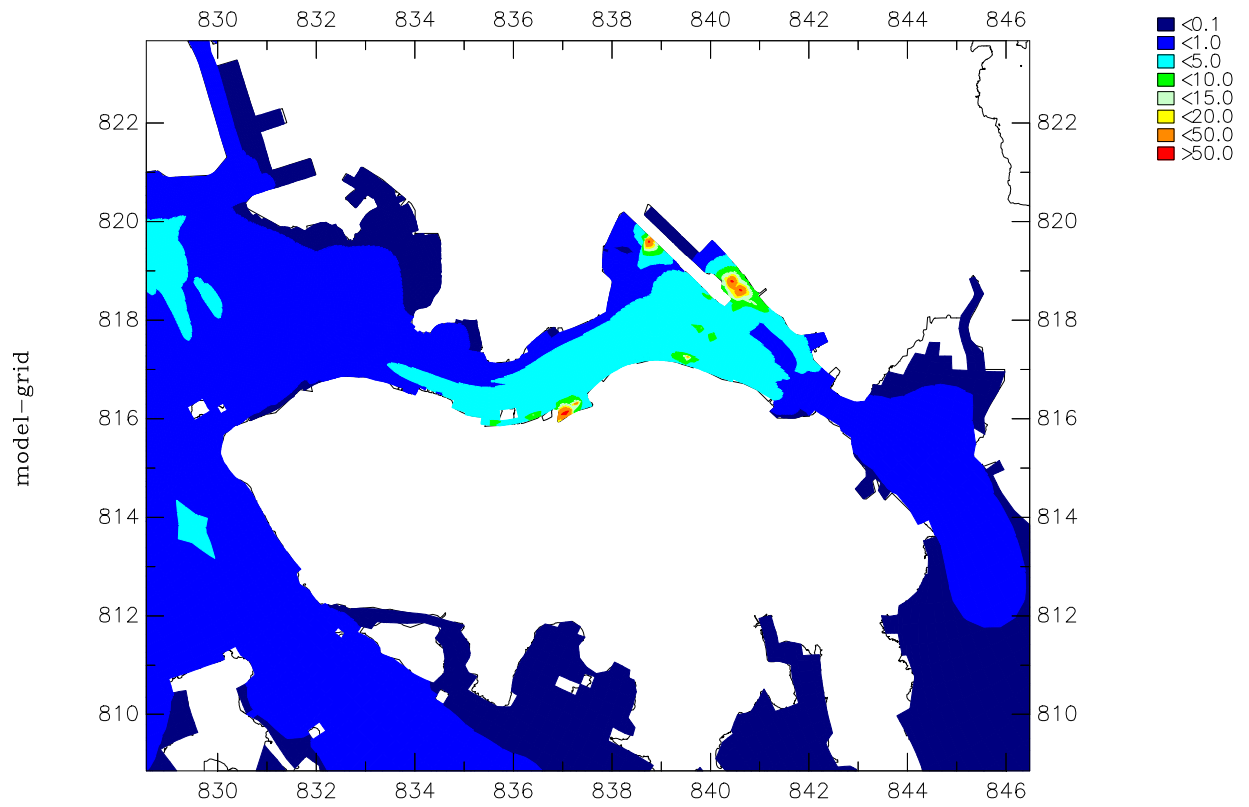


Maximum SS Elevations (mg/L) from Source A
 (Cumulative impacts from other Dredging Operations)
 Upper Plot: Top Layer; Lower Plot: Bottom Layer

Dry Season

Scenario 2

Mott MacDonald Hong Kong Ltd

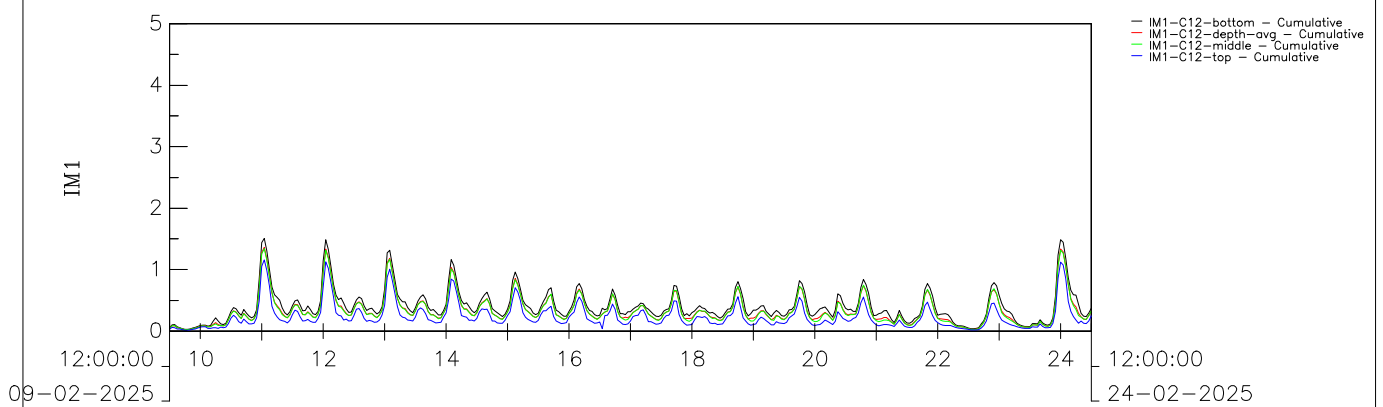
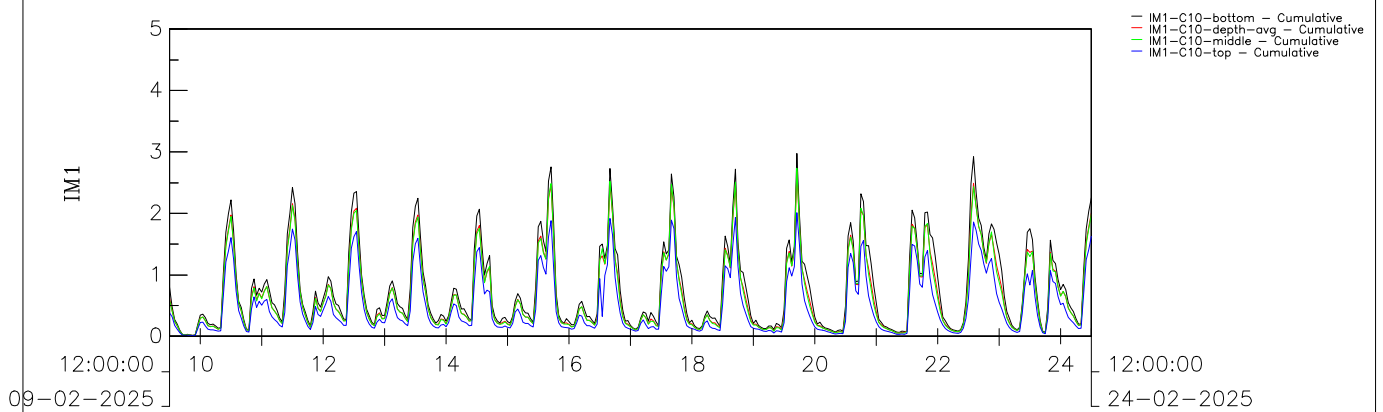
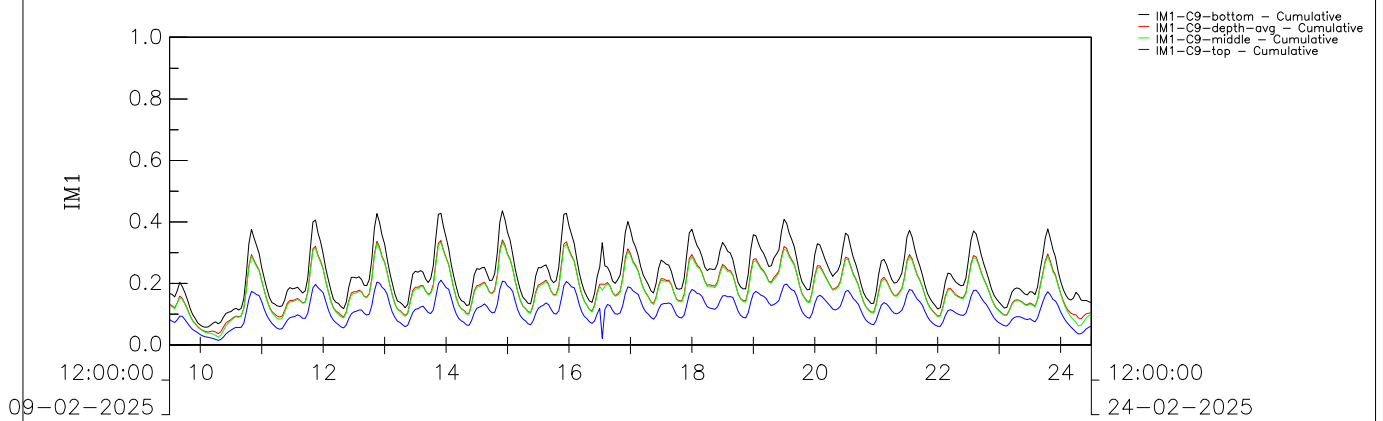
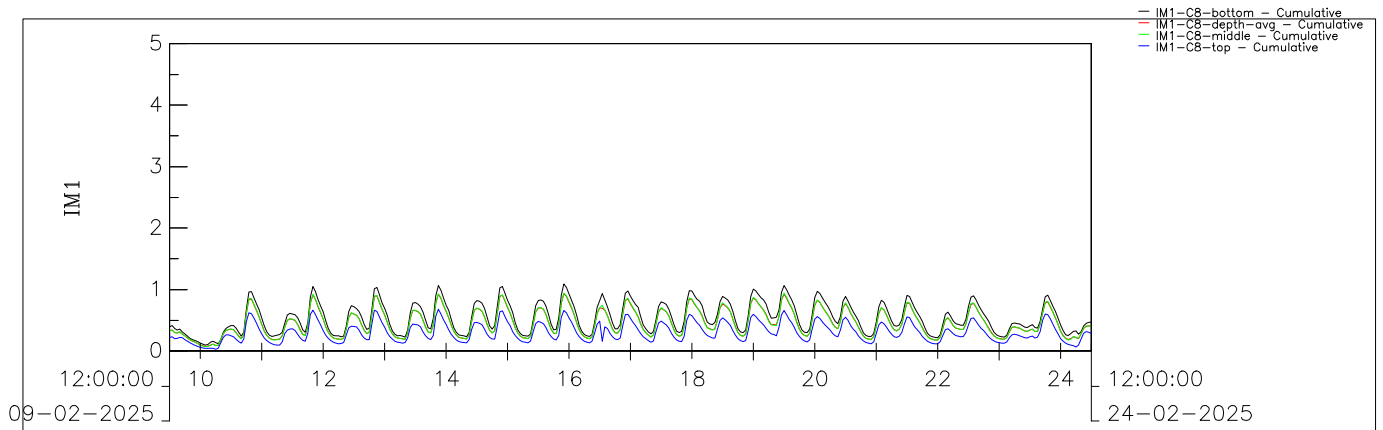


Maximum SS Elevations (mg/L) from Source B
 (Cumulative impacts from other Dredging Operations)
 Upper Plot: Top Layer; Lower Plot: Bottom Layer

Dry Season

Scenario 2

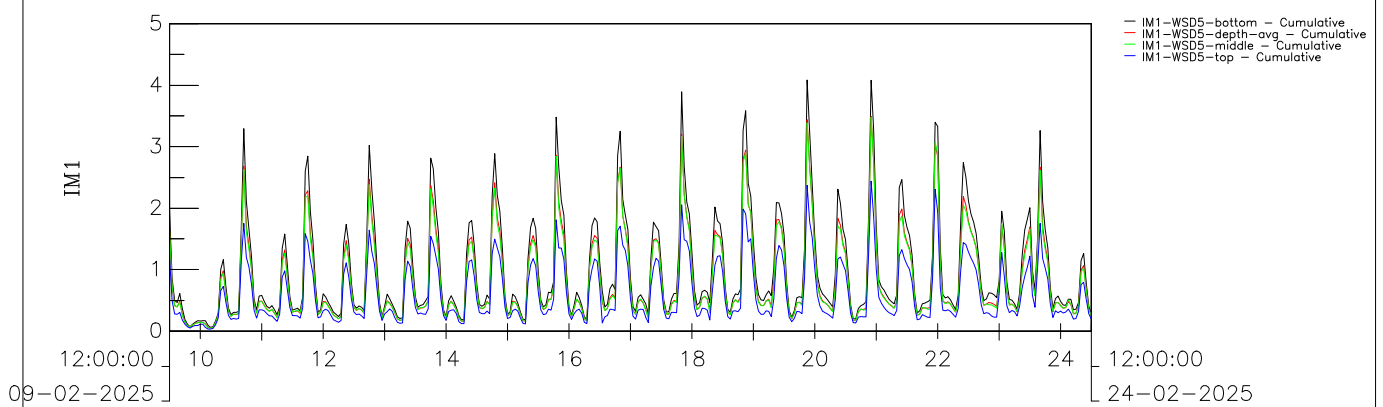
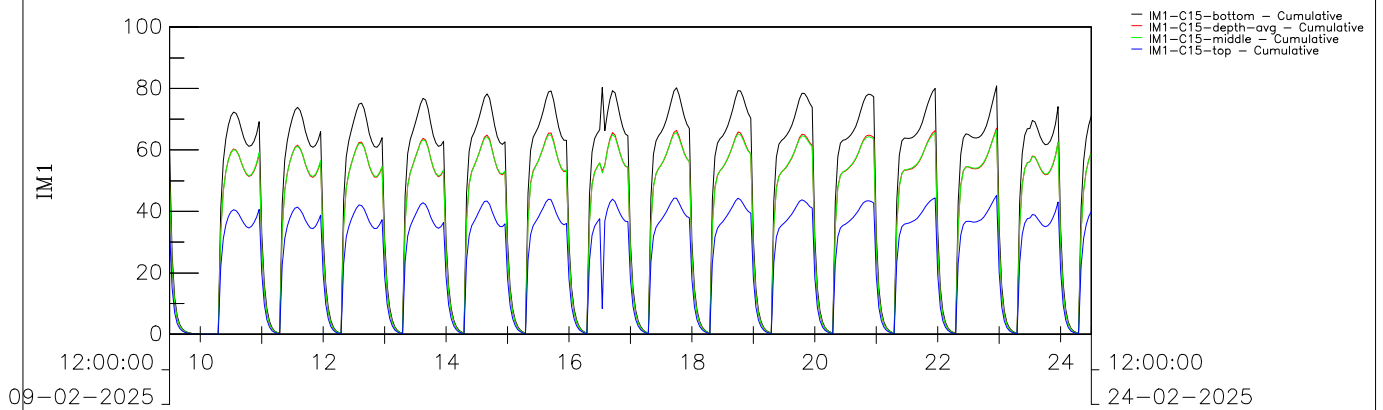
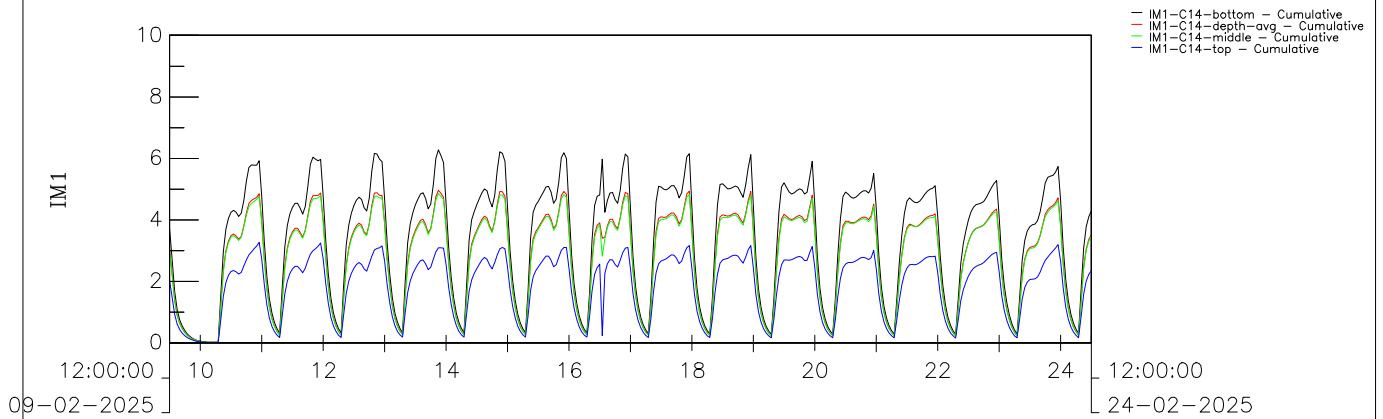
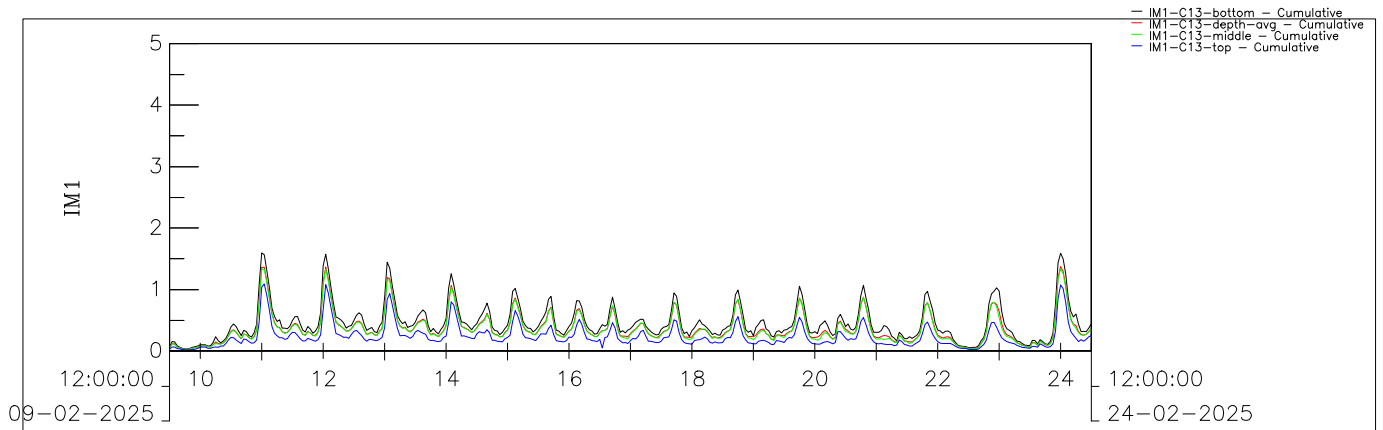
Mott MacDonald Hong Kong Ltd



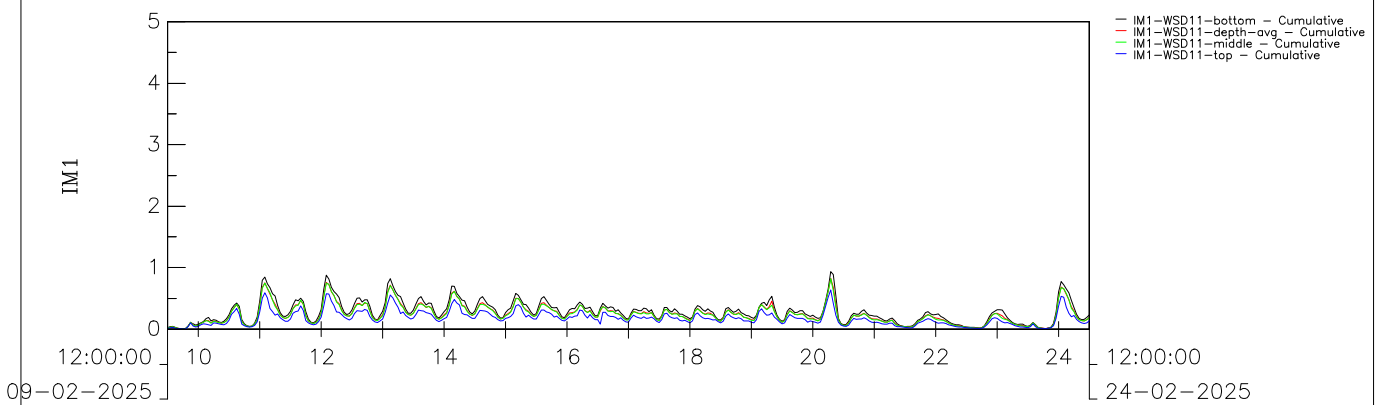
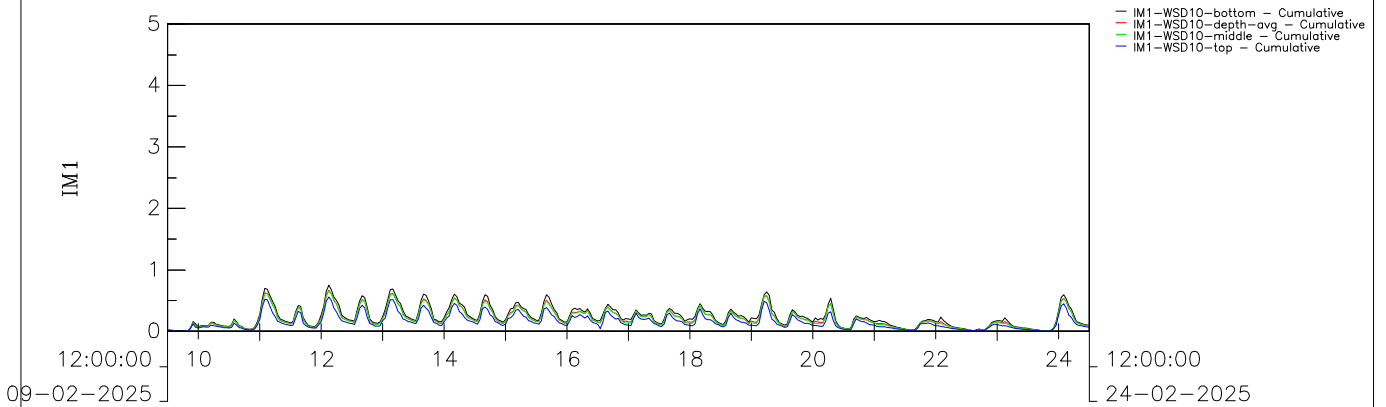
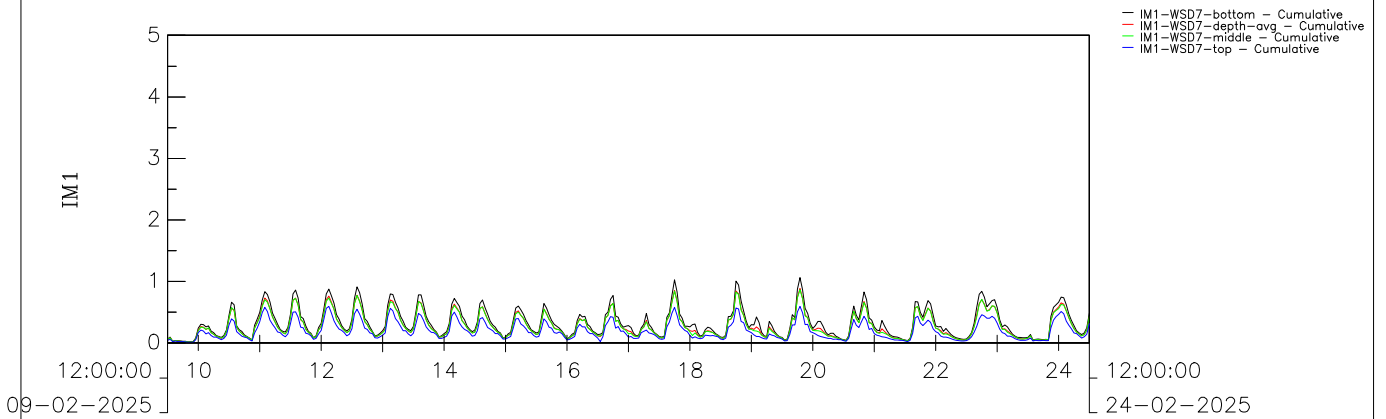
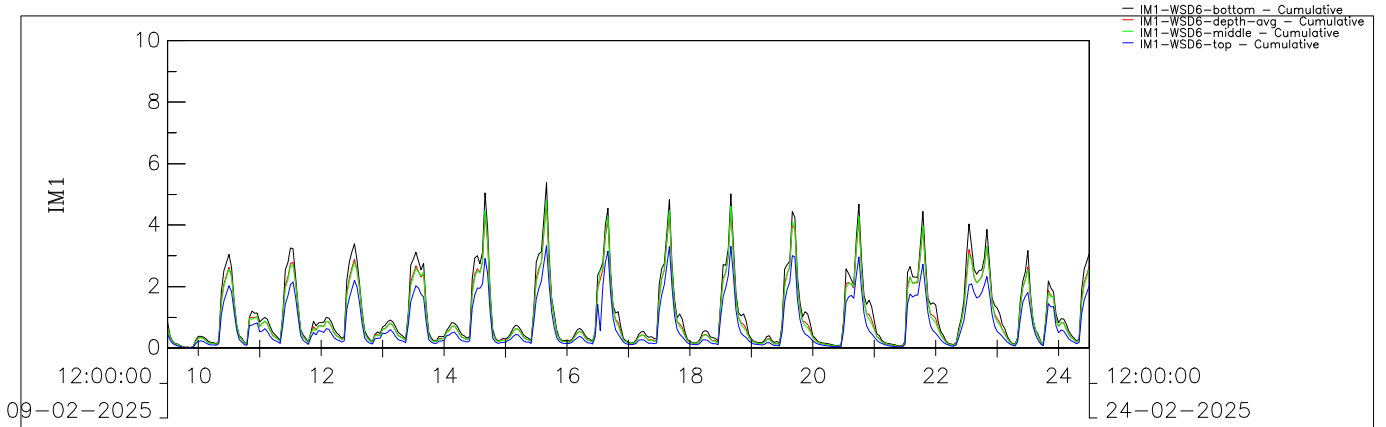
SS Elevations (mg/L) at Stations C8, C9, C10, C12
 from Source A (Cumulative)
 1st Plot: C8; 2nd Plot: C9; 3rd Plot: C10; 4th Plot: C12

Dry Season Scenario 2

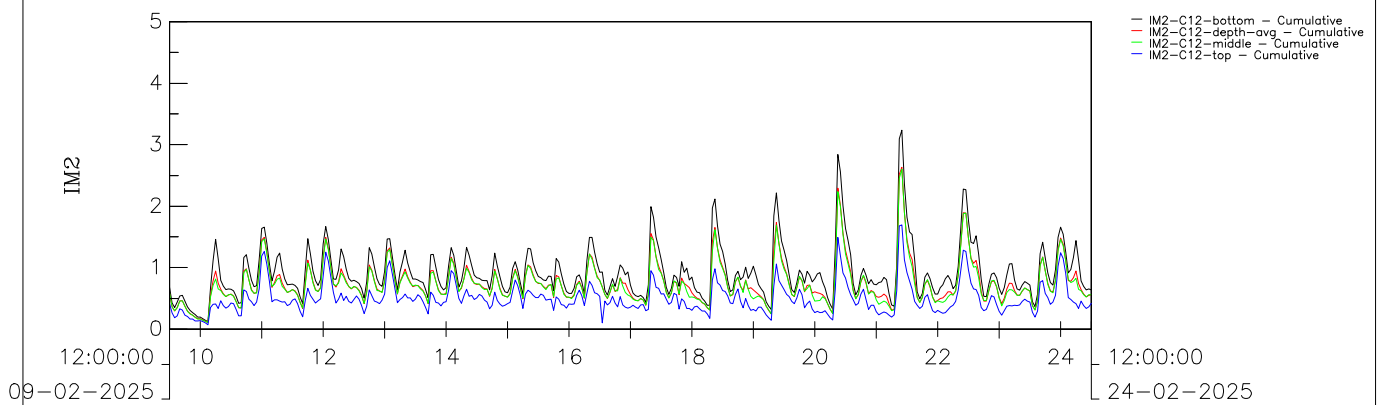
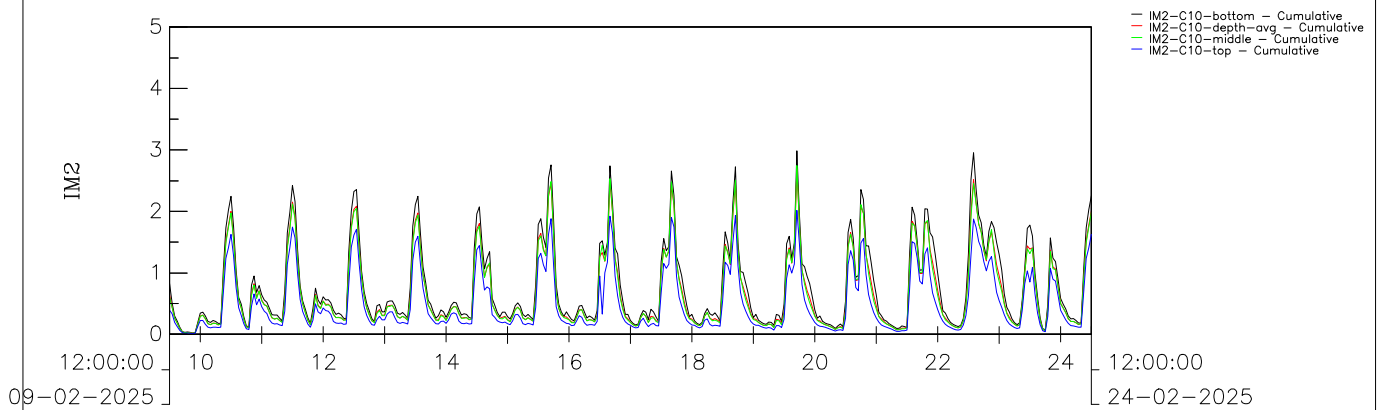
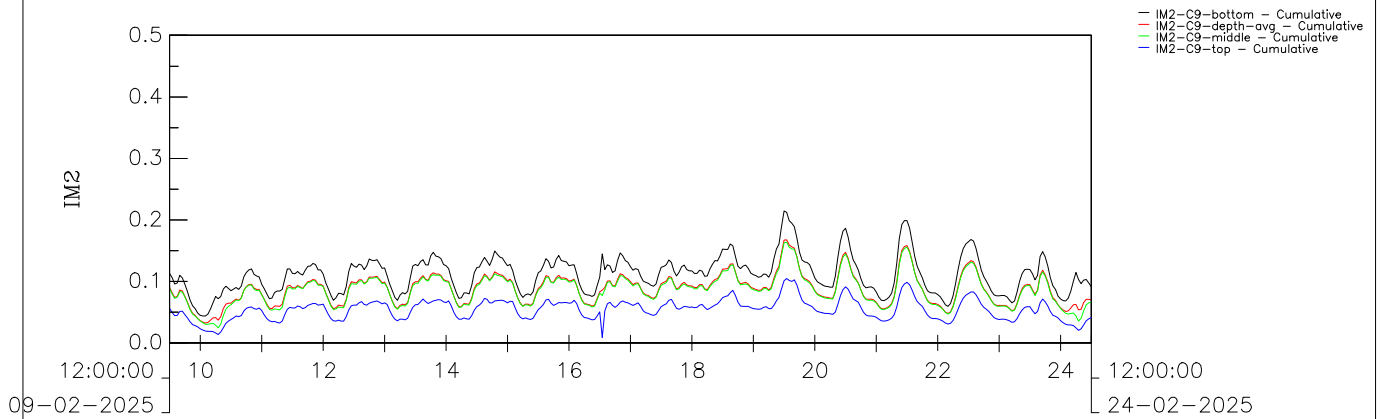
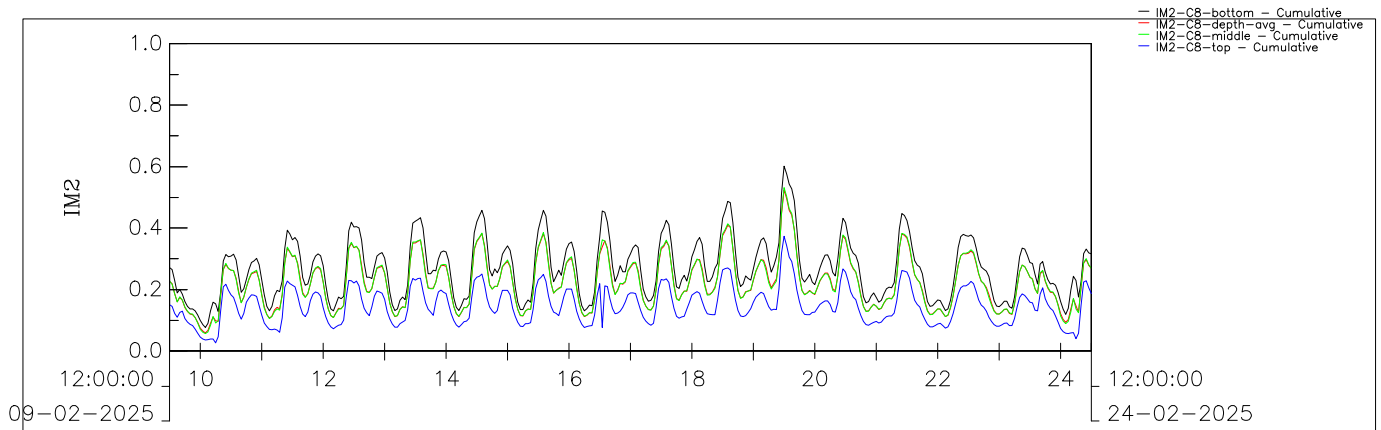
Mott MacDonald Hong Kong Ltd



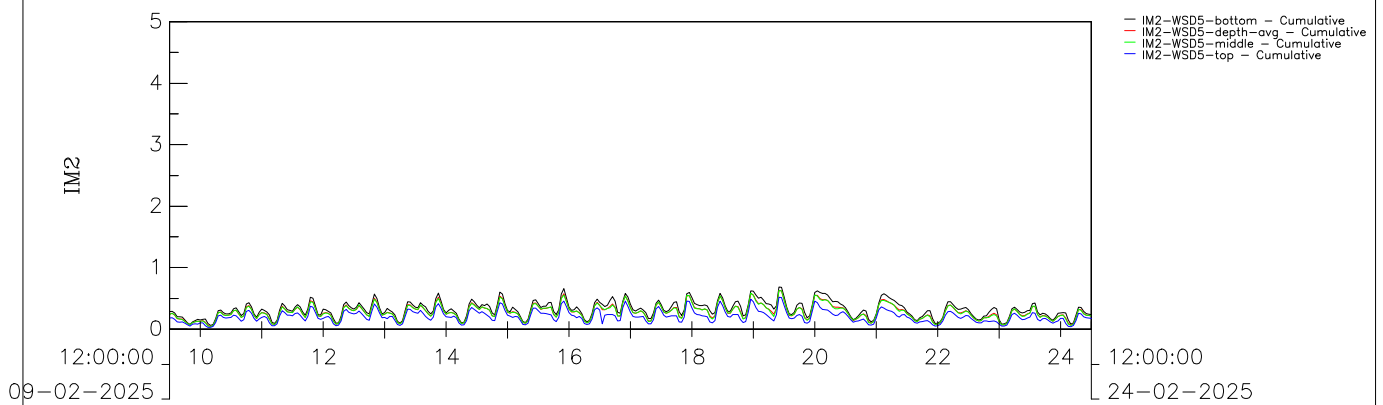
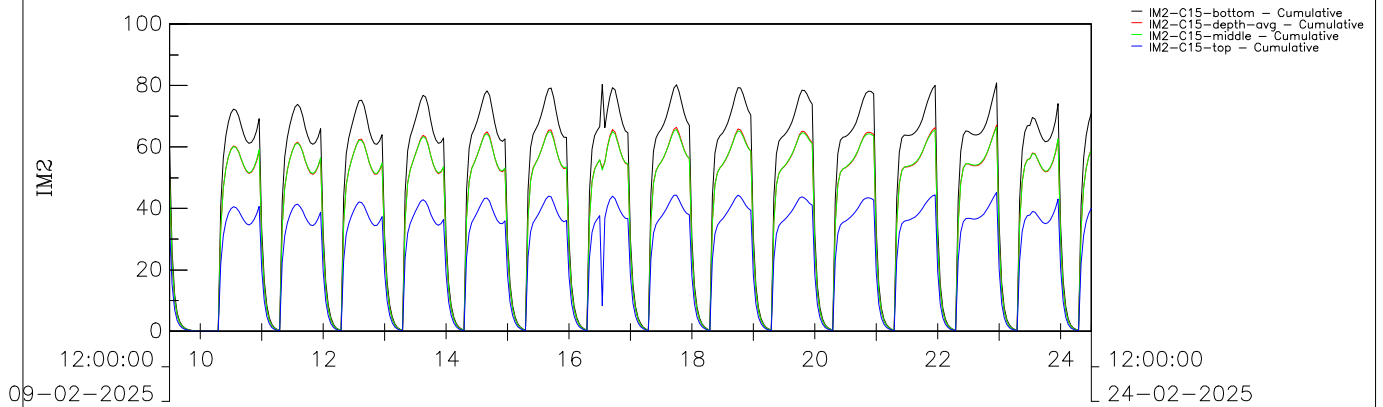
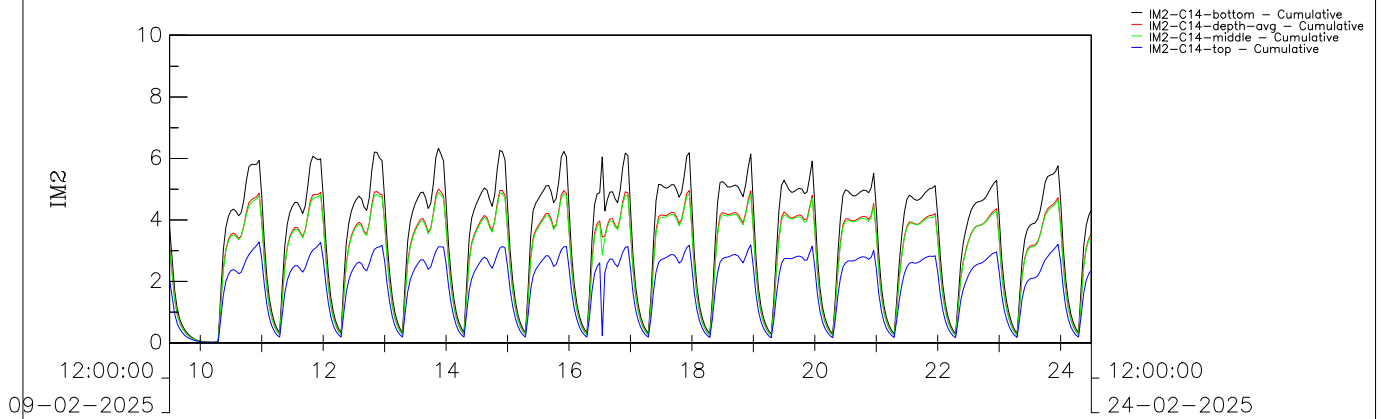
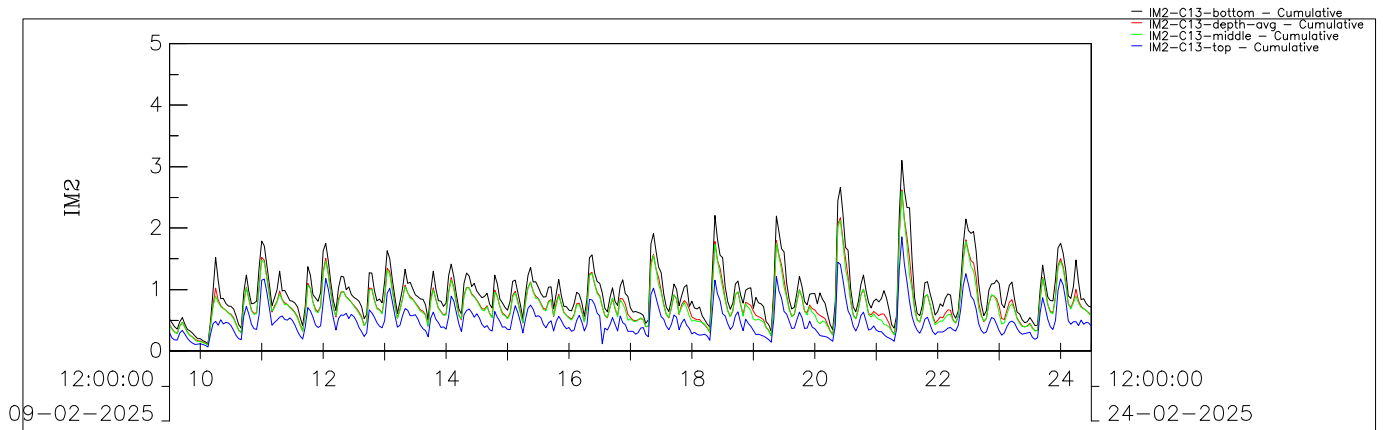
SS Elevations (mg/L) at Stations C13, C14, C15, WSD5 from Source A (Cumulative) 1st Plot: C13; 2nd Plot: C14; 3rd Plot: C15; 4th Plot: WSD5	Dry Season	Scenario 2
Mott MacDonald Hong Kong Ltd		



SS Elevations (mg/L) at Stations WSD6, WSD7, WSD10, WSD11 from Source A (Cumulative) 1st Plot: WSD6; 2nd Plot: WSD7; 3rd Plot: WSD10; 4th Plot: WSD11	Dry Season	Scenario 2
Mott MacDonald Hong Kong Ltd		



SS Elevations (mg/L) at Stations C8, C9, C10, C12 from Source B (Cumulative) 1st Plot: C8; 2nd Plot: C9; 3rd Plot: C10; 4th Plot: C12	Dry Season	Scenario 2
Mott MacDonald Hong Kong Ltd		



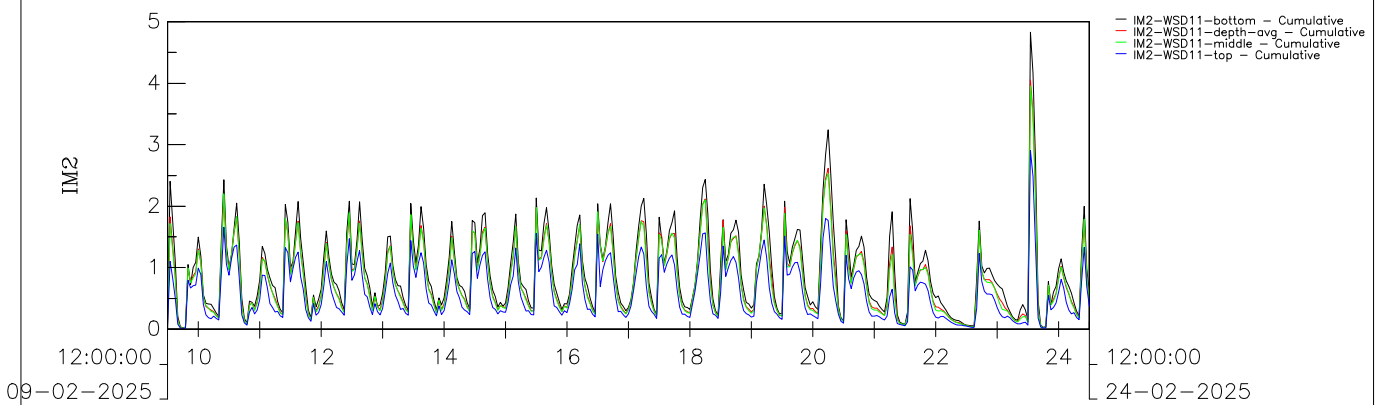
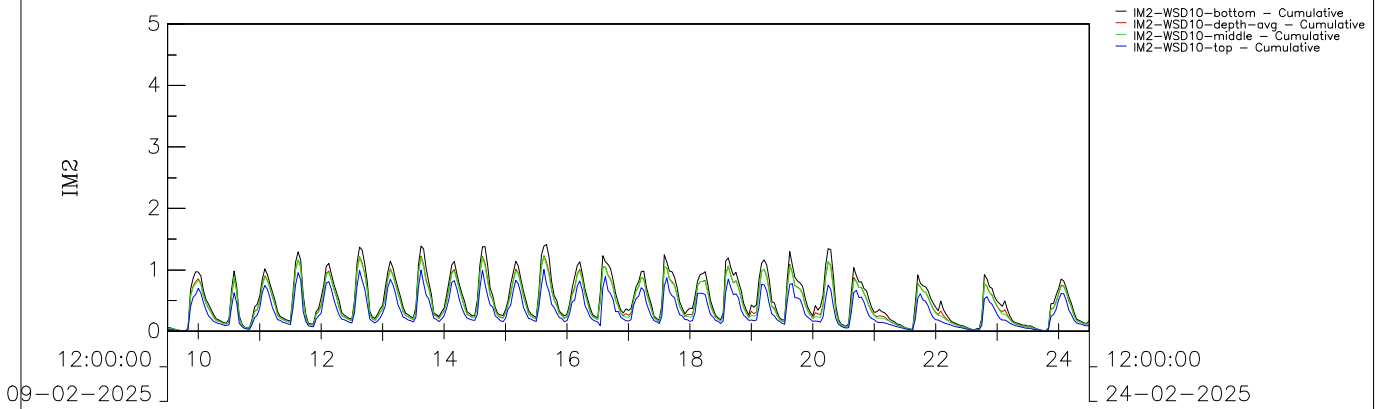
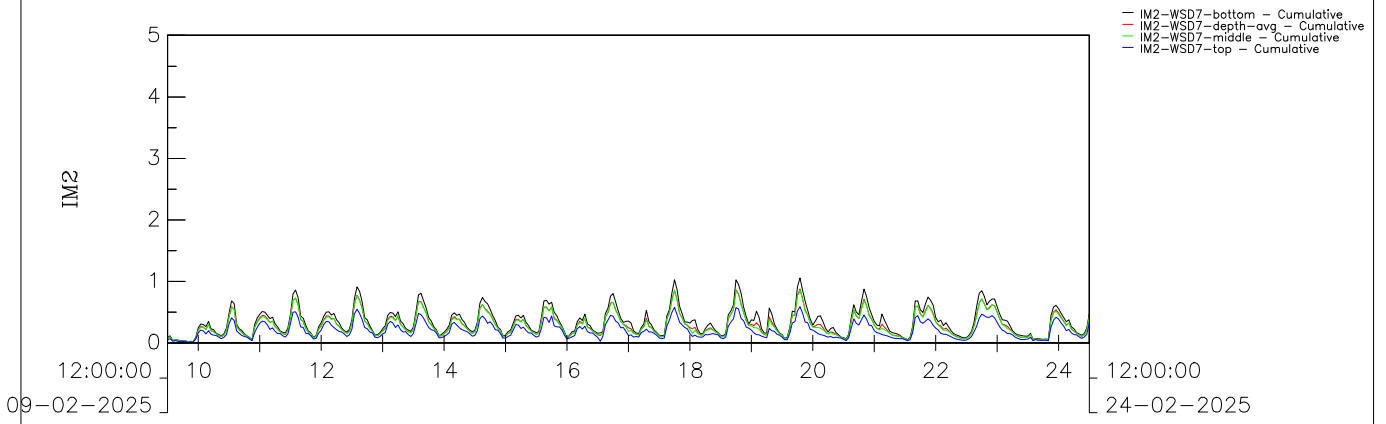
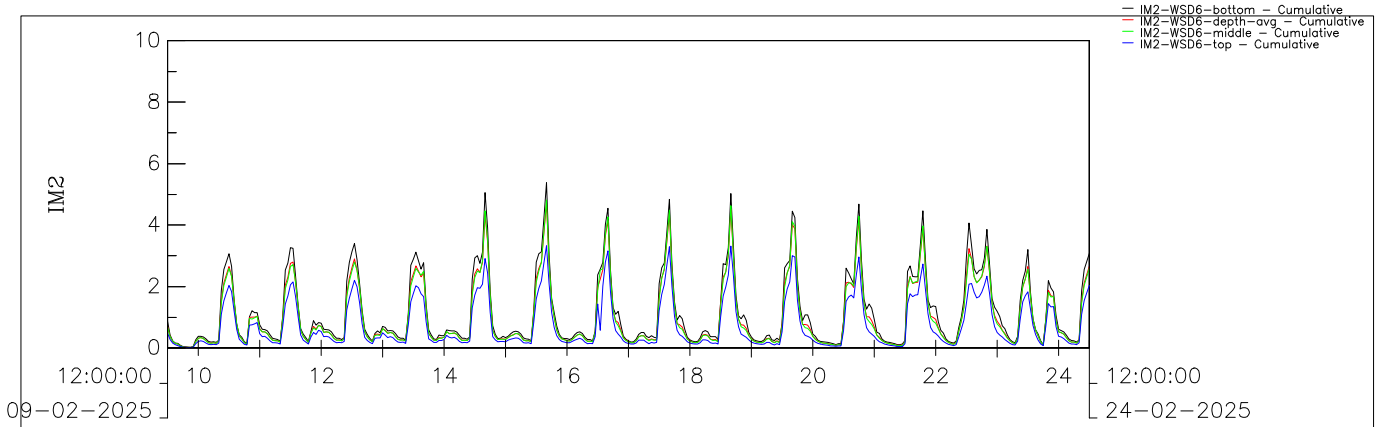
SS Elevations (mg/L) at Stations C13, C14, C15, WSD5
from Source B (Cumulative)

1st Plot: C13; 2nd Plot: C14; 3rd Plot: C15; 4th Plot: WSD5

Dry Season

Scenario 2

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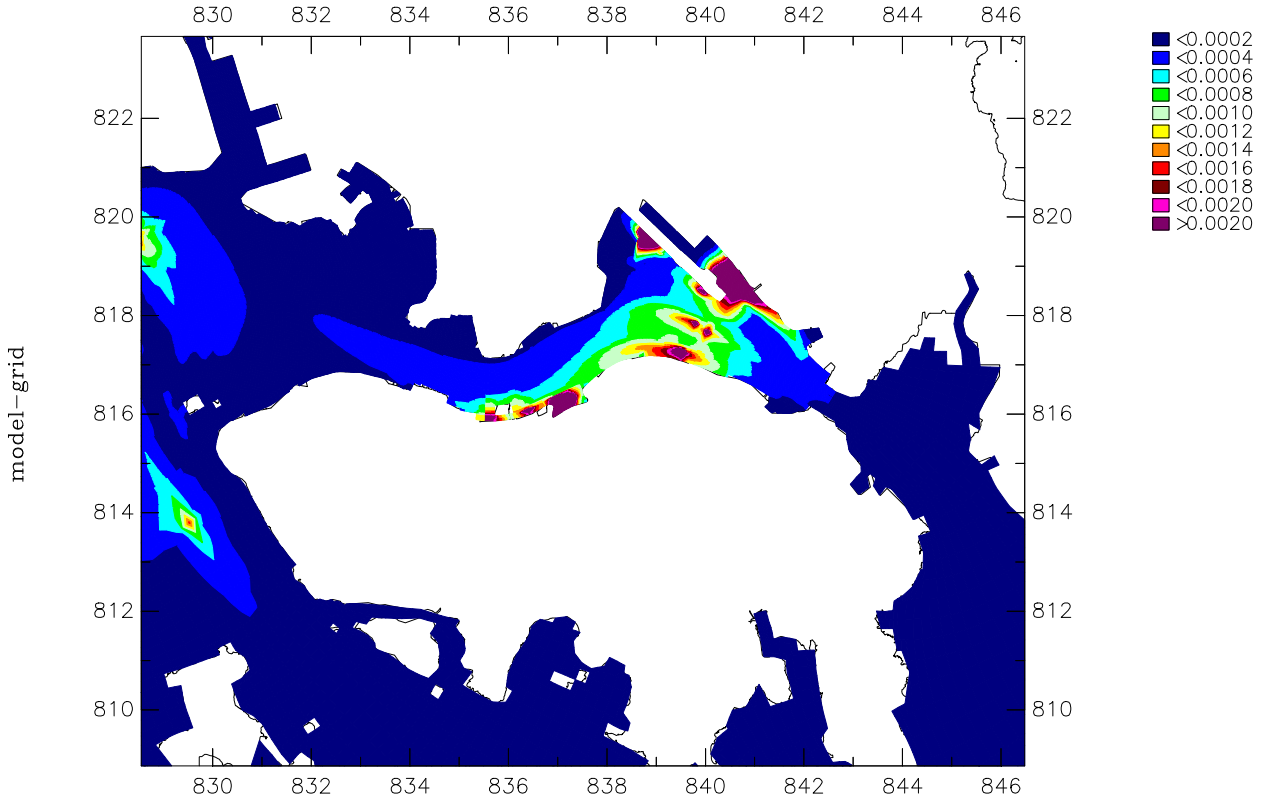
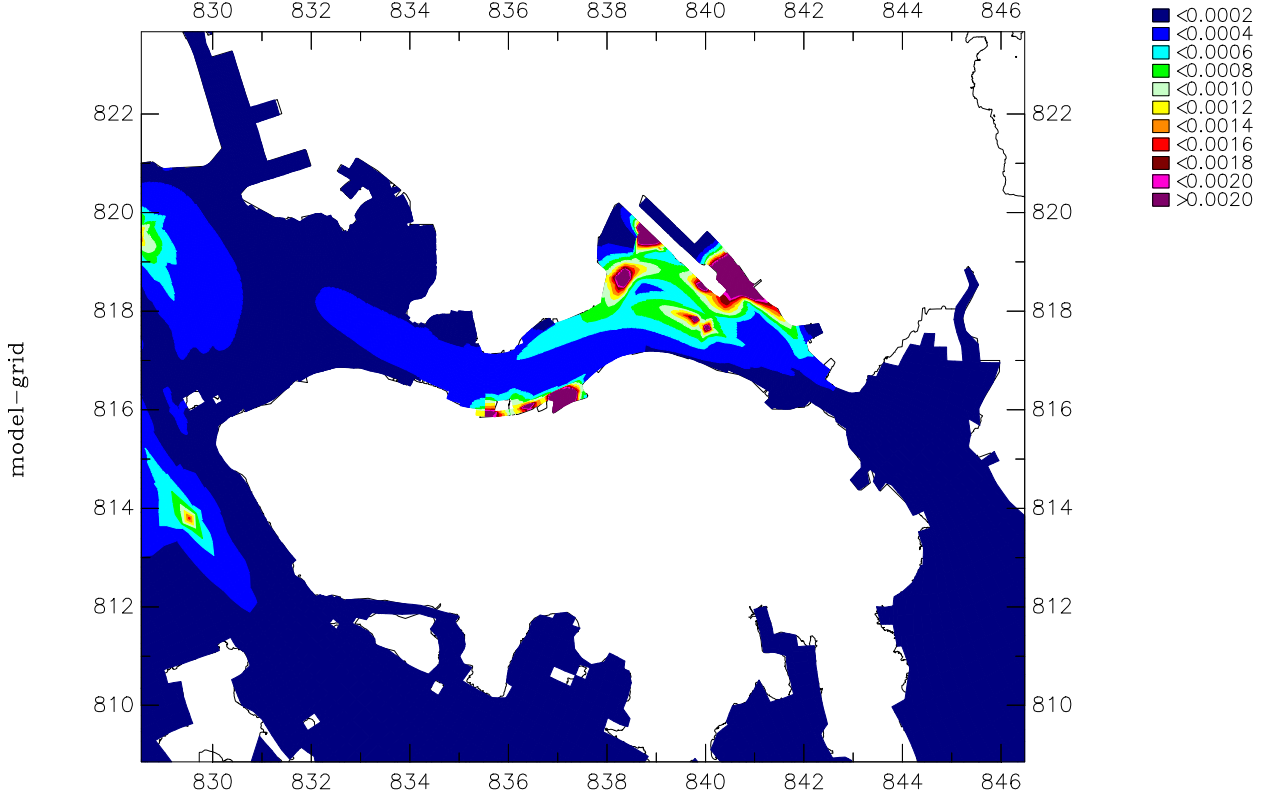
SS Elevations (mg/L) at Stations WSD6, WSD7, WSD10, WSD11 from Source B (Cumulative)

1st Plot: WSD6; 2nd Plot: WSD7; 3rd Plot: WSD10; 4th Plot: WSD11

Dry Season

Scenario 2

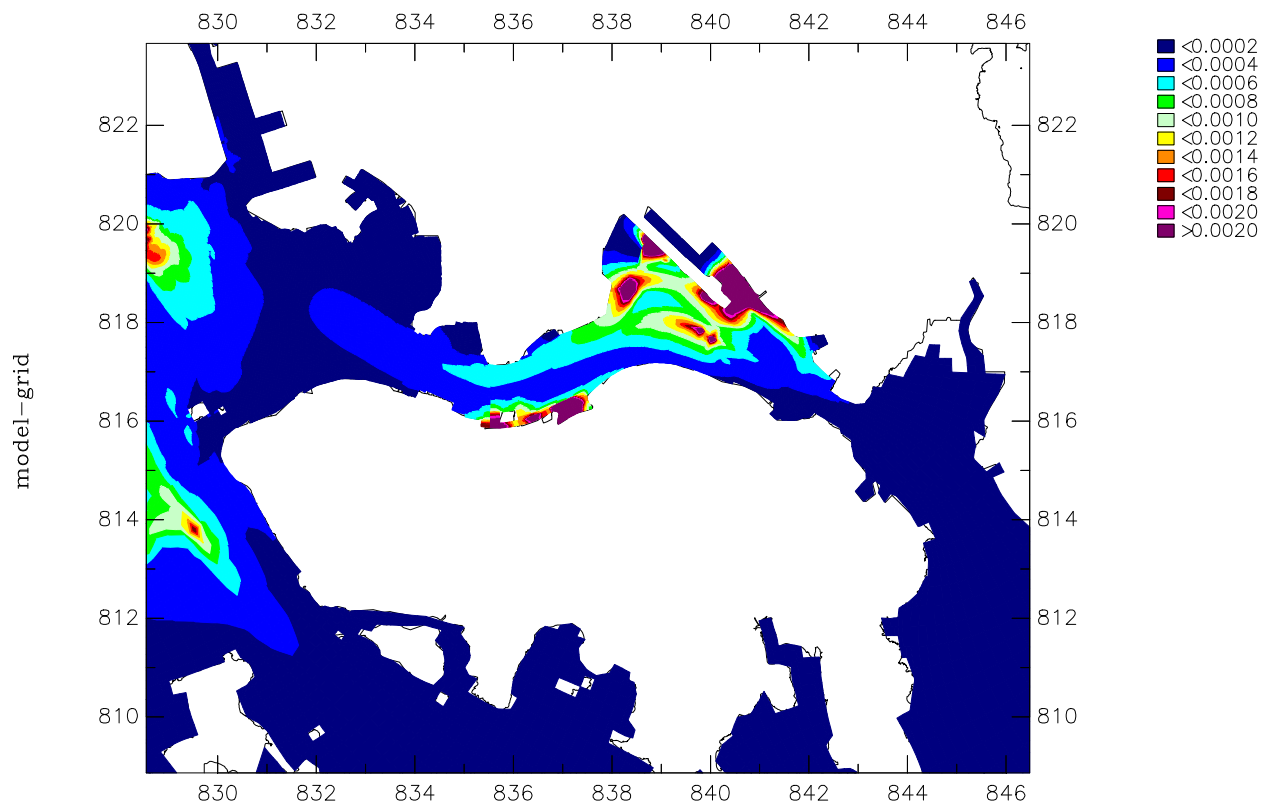
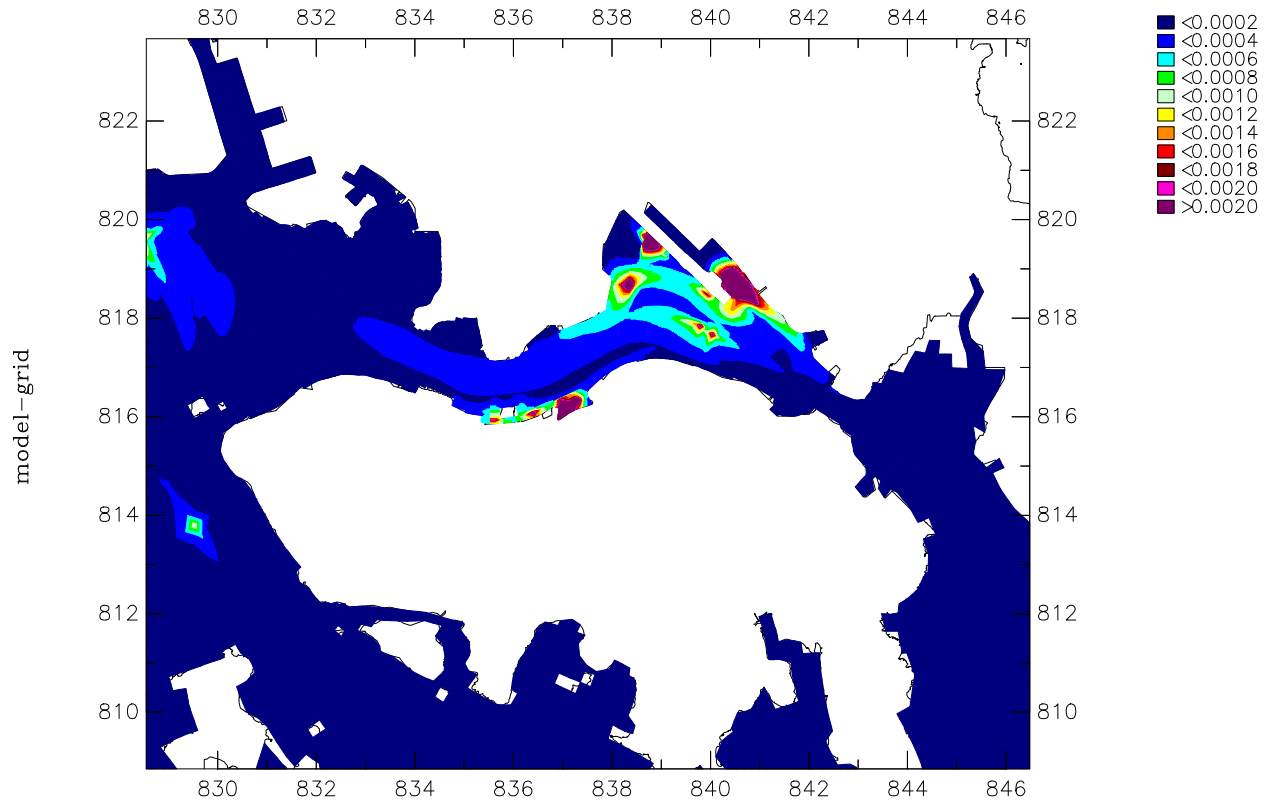
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Maximum Depth-averaged Total Inorganic Nitrogen (TIN) (mg/L)
 Upper Plot: Source A (Cumulative)
 Lower Plot: Source B (Cumulative)

Dry Season Scenario 2

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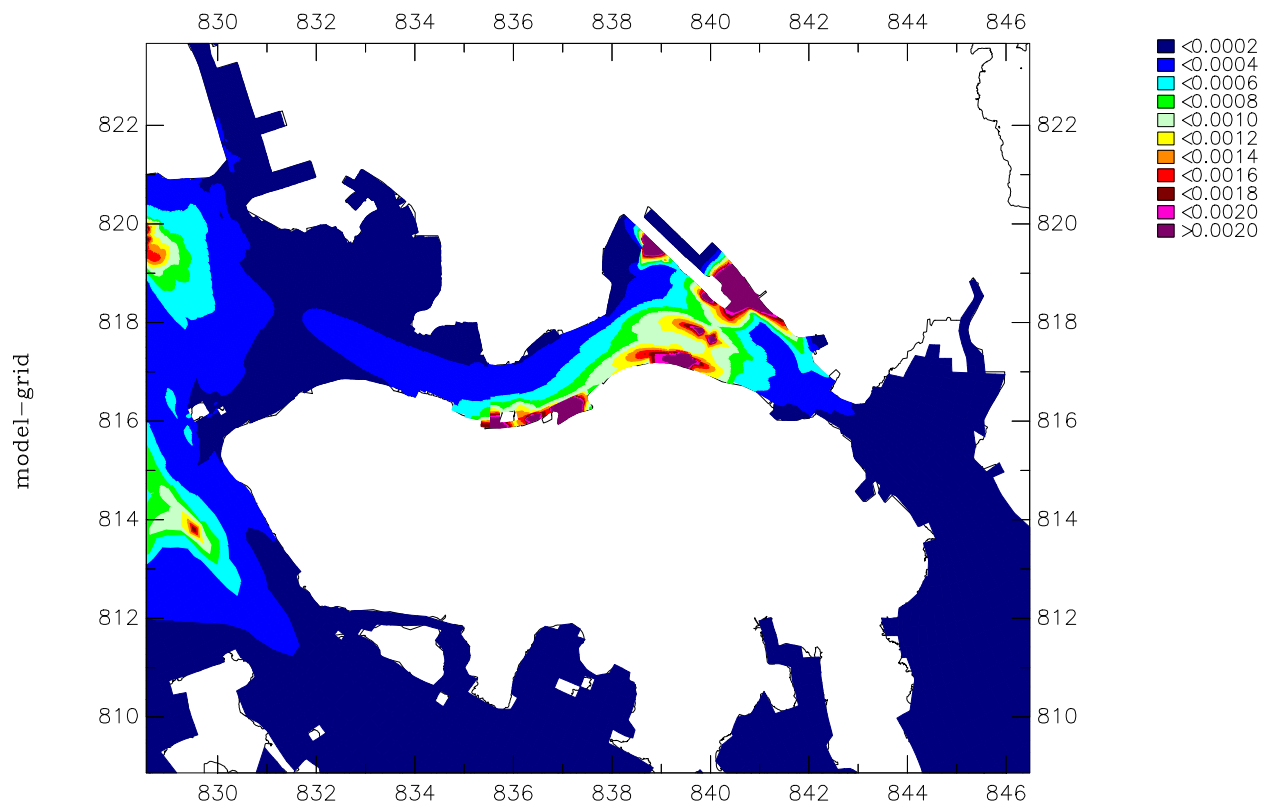
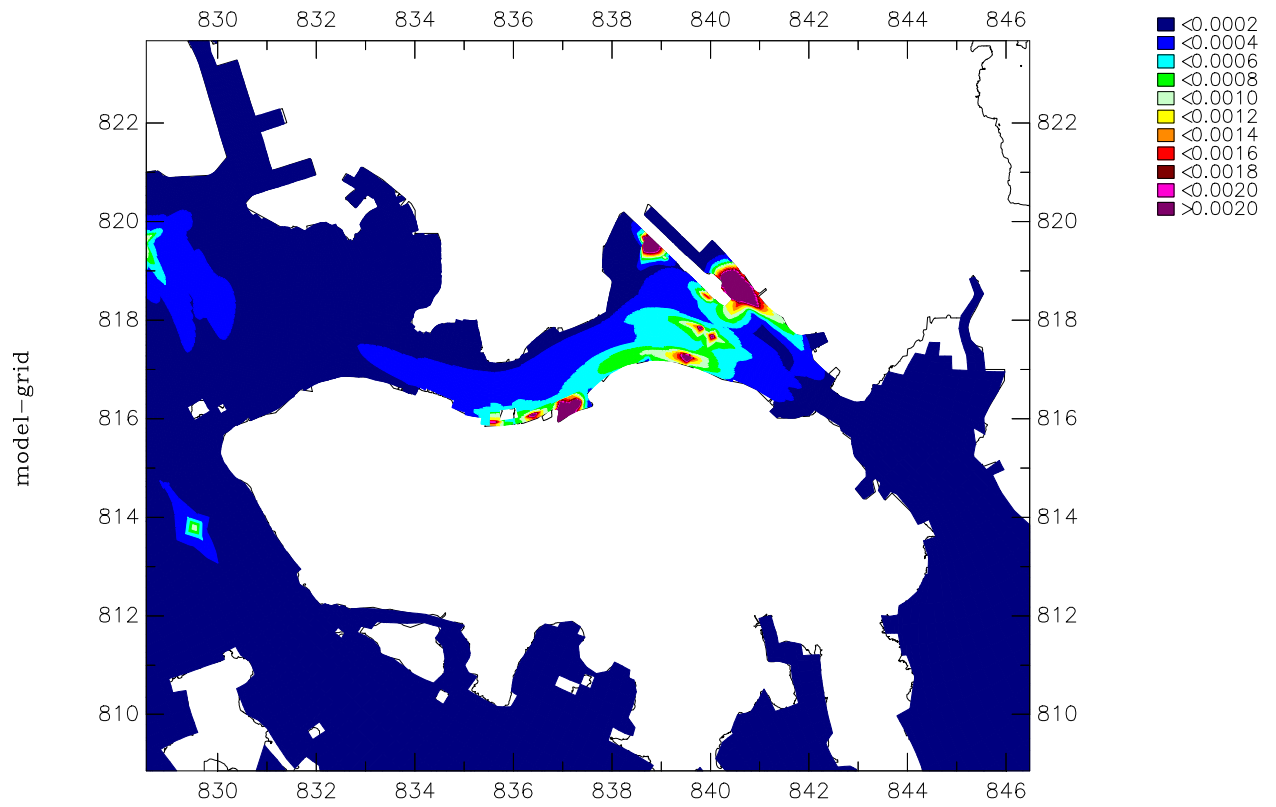


Maximum Total Inorganic Nitrogen (TIN) (mg/L) from Source A
 (Cumulative impacts from other Dredging Operations)
 Upper Plot: Top Layer; Lower Plot: Bottom Layer

Dry Season

Scenario 2

Mott MacDonald Hong Kong Ltd

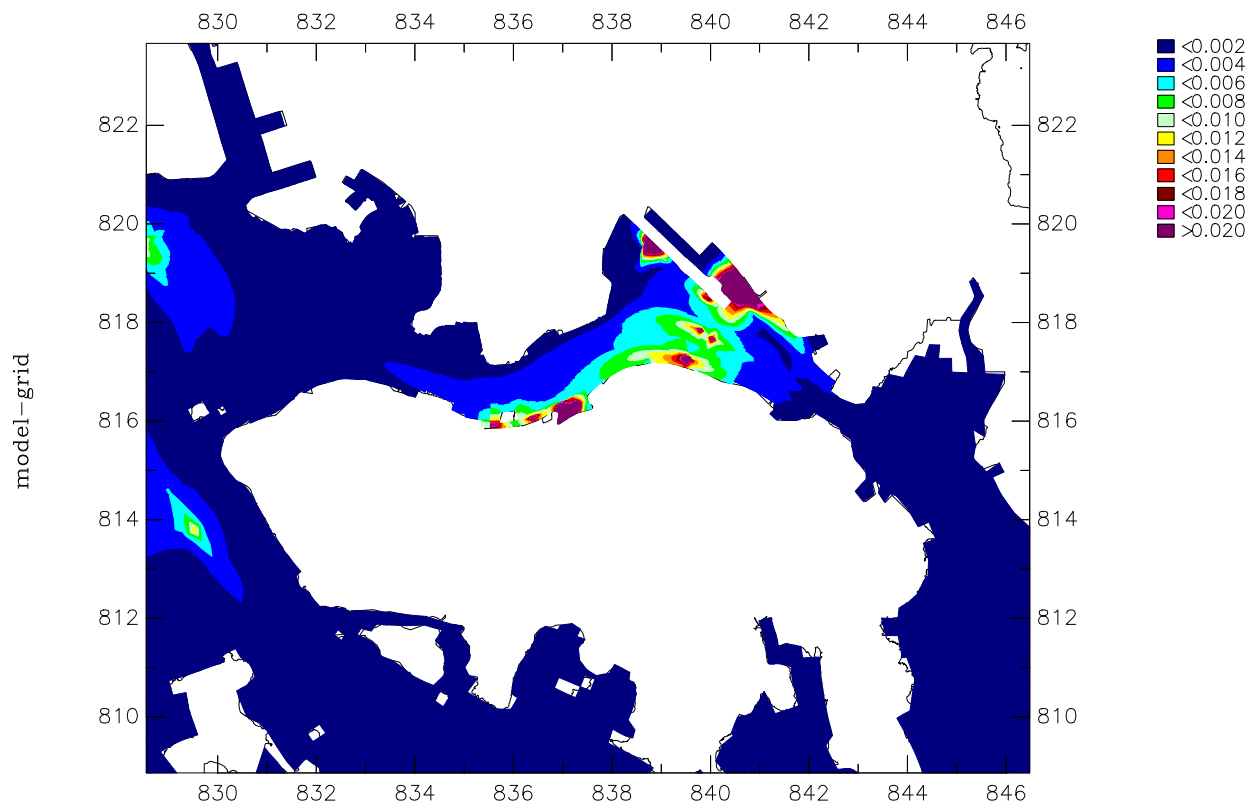
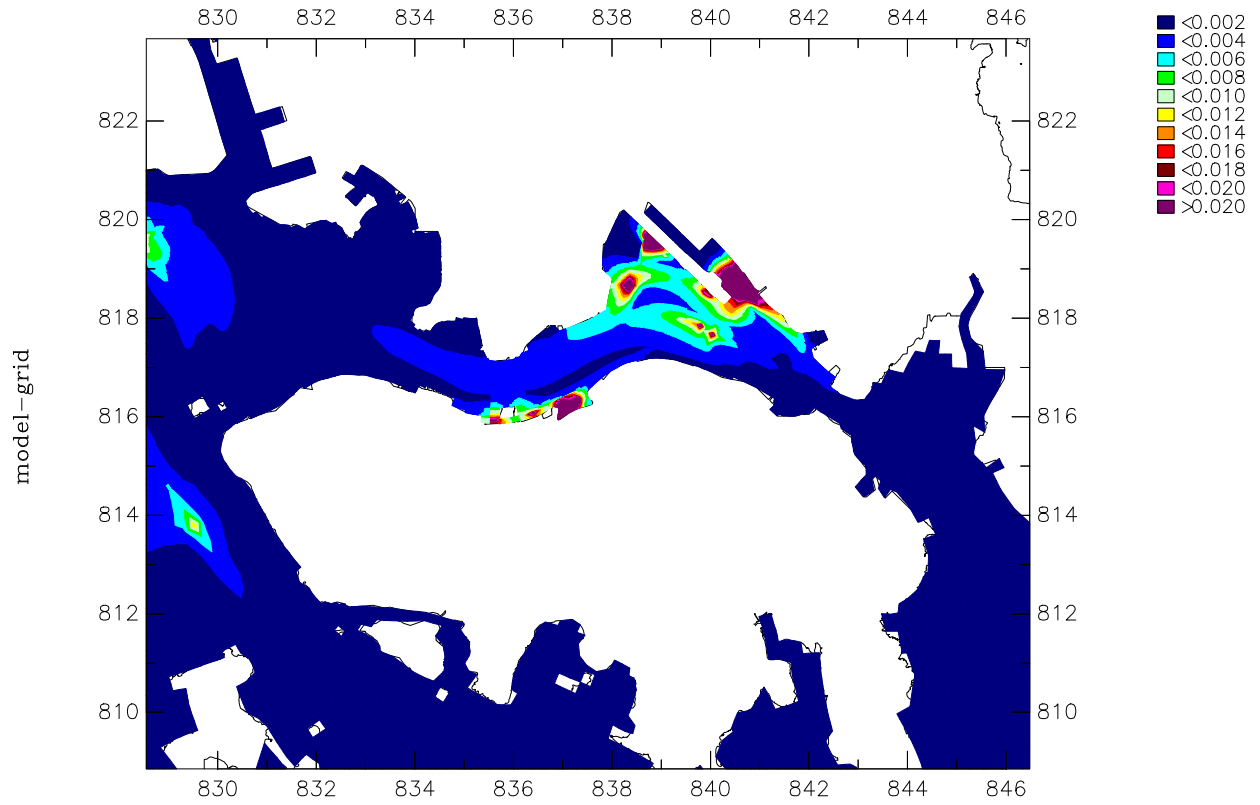


Maximum Total Inorganic Nitrogen (TIN) (mg/L) from Source B
 (Cumulative impacts from other Dredging Operations)
 Upper Plot: Top Layer; Lower Plot: Bottom Layer

Dry Season

Scenario 2

Mott MacDonald Hong Kong Ltd

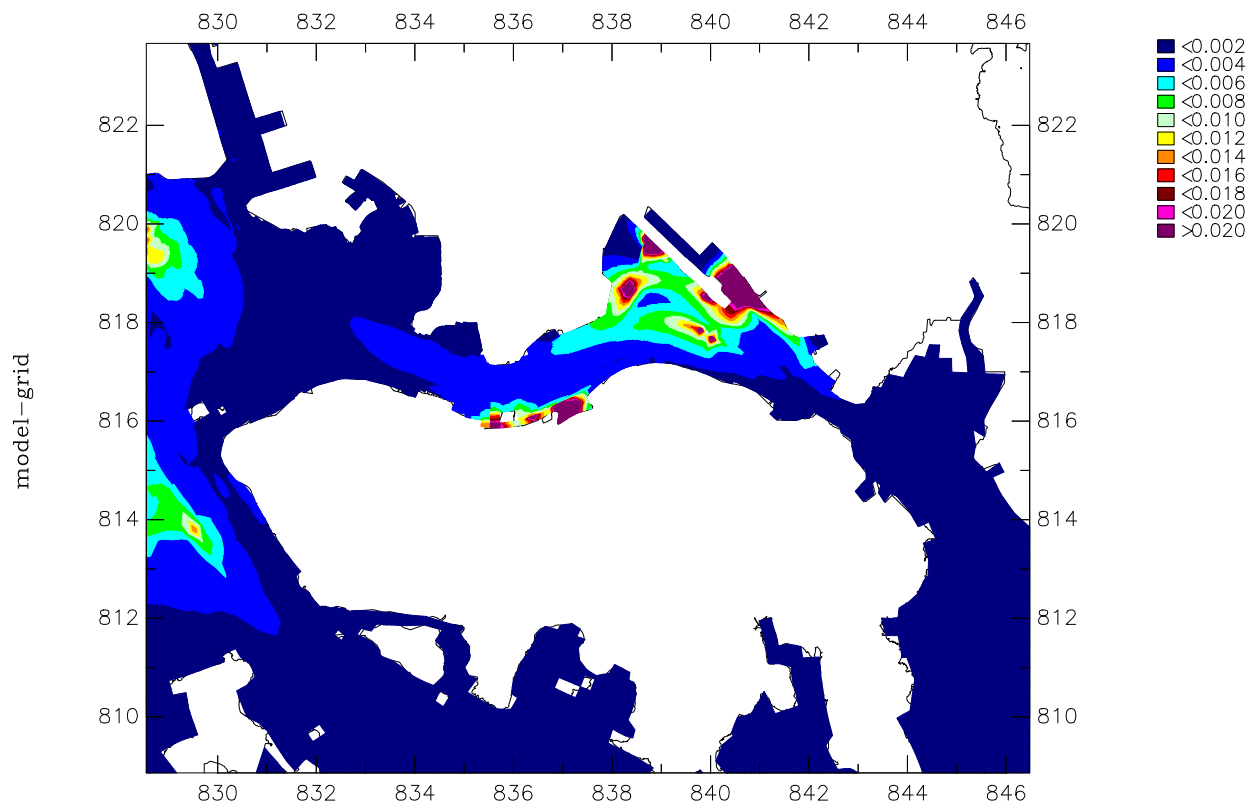
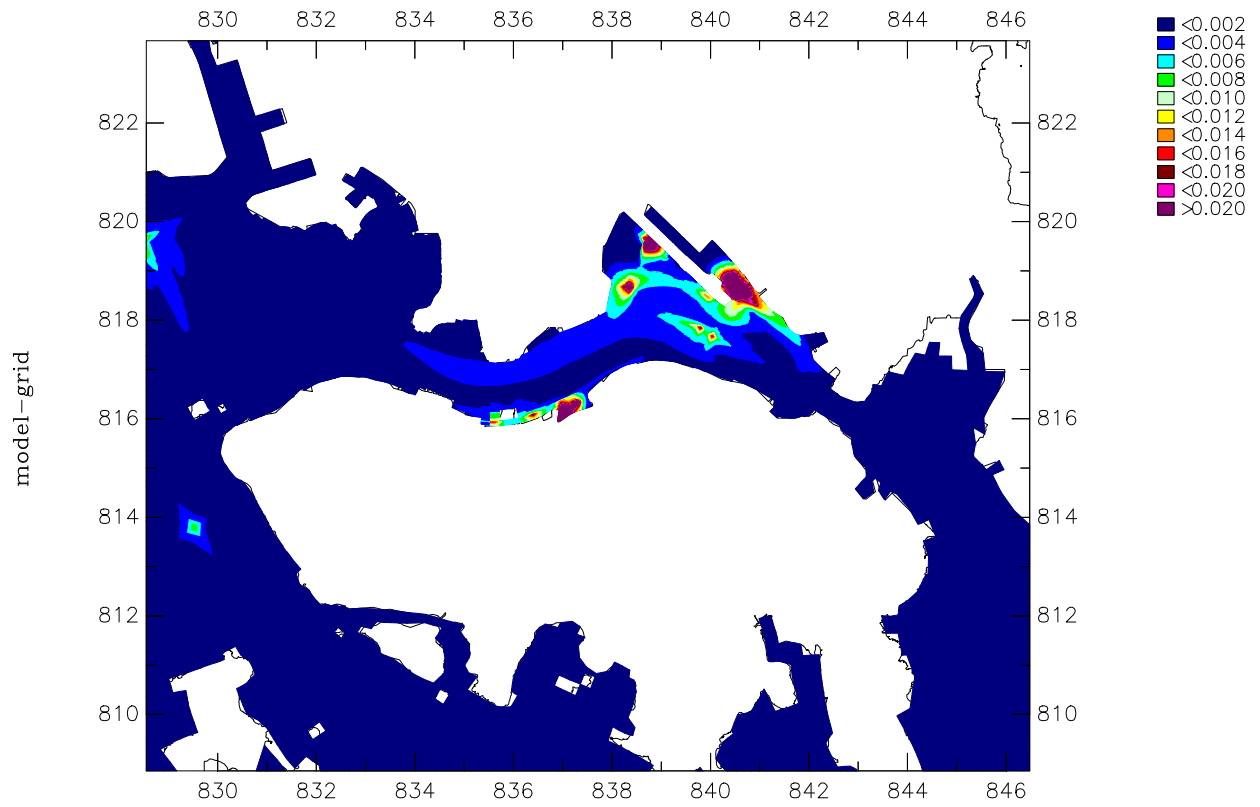


Maximum Depth-averaged Unionized Ammonia (NH₃) (mg/L)
 Upper Plot: Source A (Cumulative)
 Lower Plot: Source B (Cumulative)

Dry Season

Scenario 2

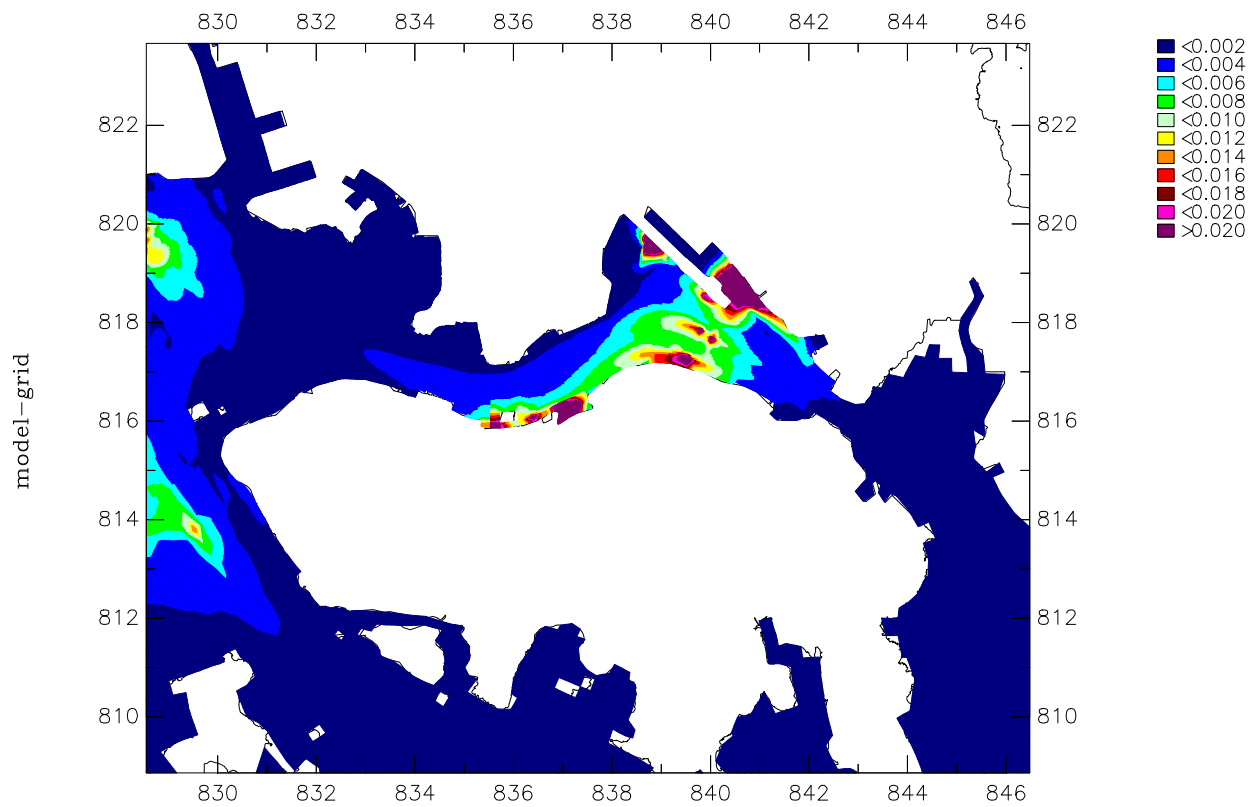
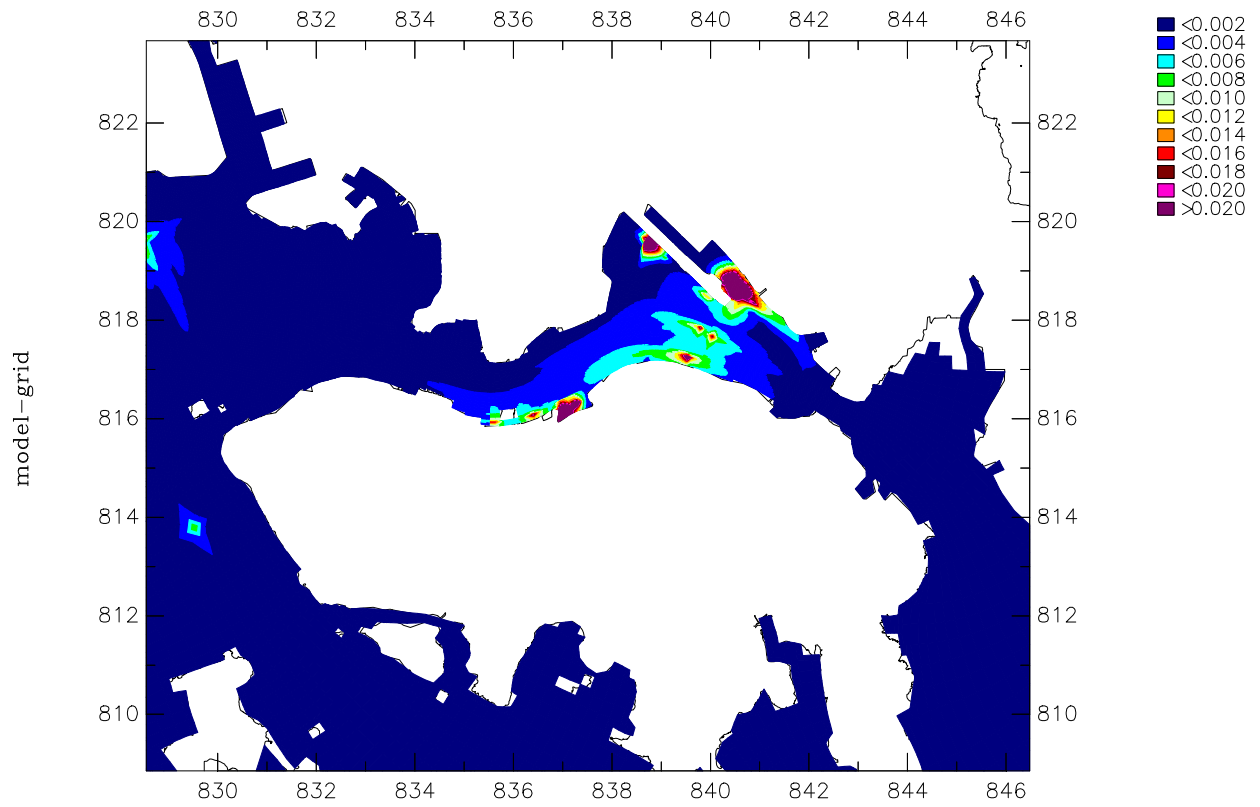
Mott MacDonald Hong Kong Ltd



Maximum Unionized Ammonia (NH₃) (mg/L) from Source A
 (Cumulative impacts from other Dredging Operations)
 Upper Plot: Top Layer; Lower Plot: Bottom Layer

Dry Season	Scenario 2
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Mott MacDonald Hong Kong Ltd

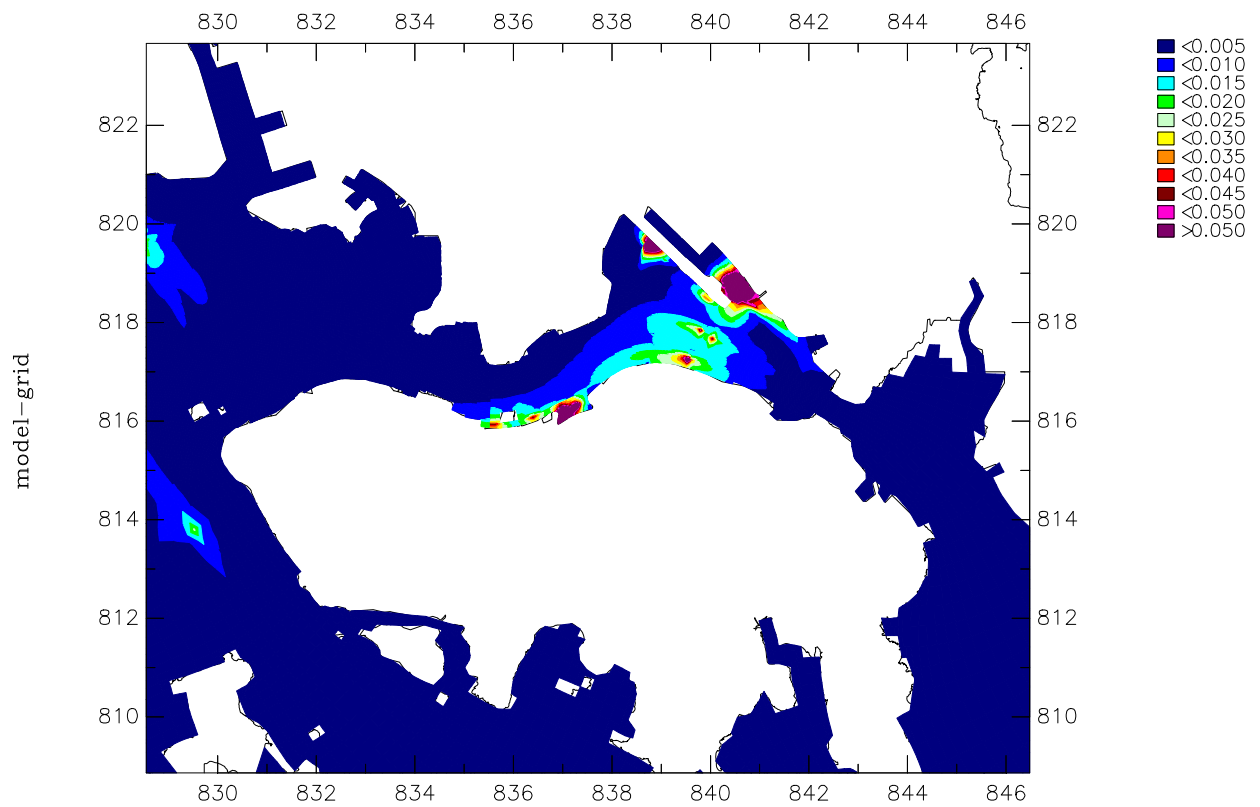
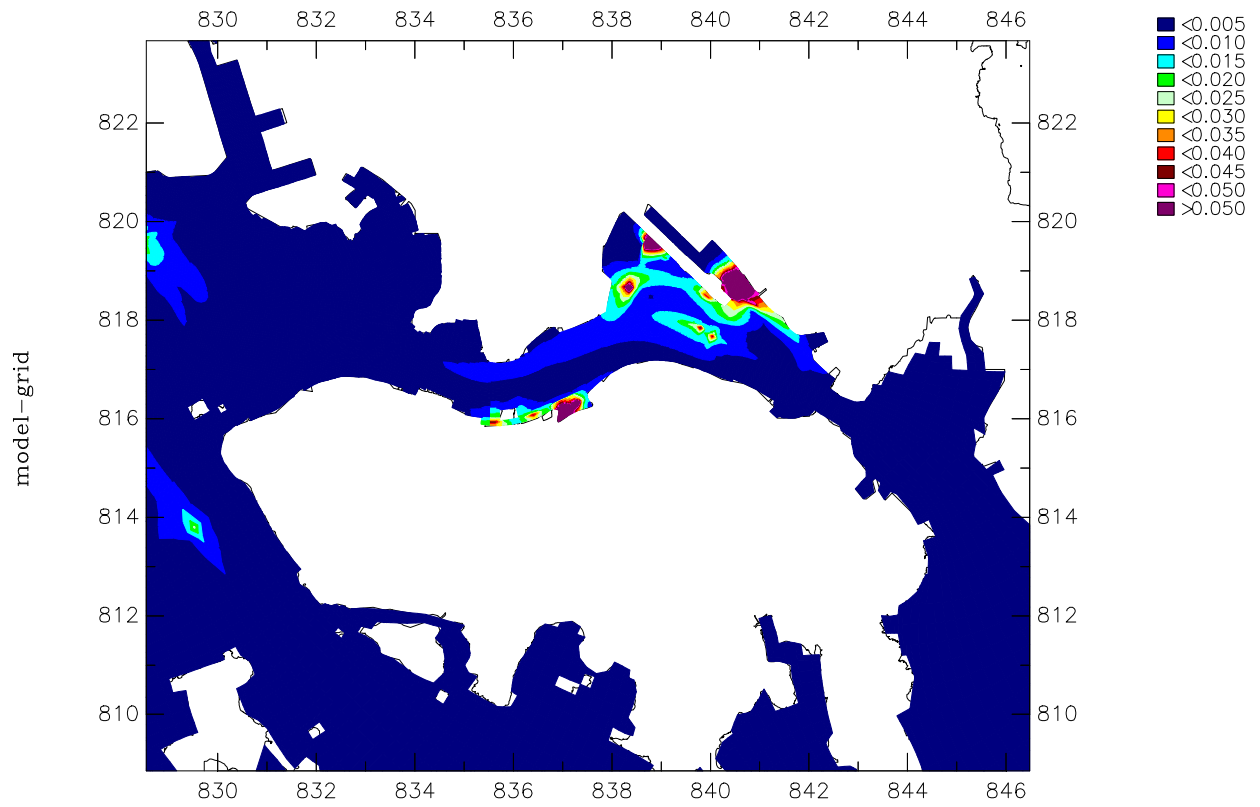


Maximum Unionized Ammonia (NH₃) (mg/L) from Source B
 (Cumulative impacts from other Dredging Operations)
 Upper Plot: Top Layer; Lower Plot: Bottom Layer

Dry Season

Scenario 2

Mott MacDonald Hong Kong Ltd

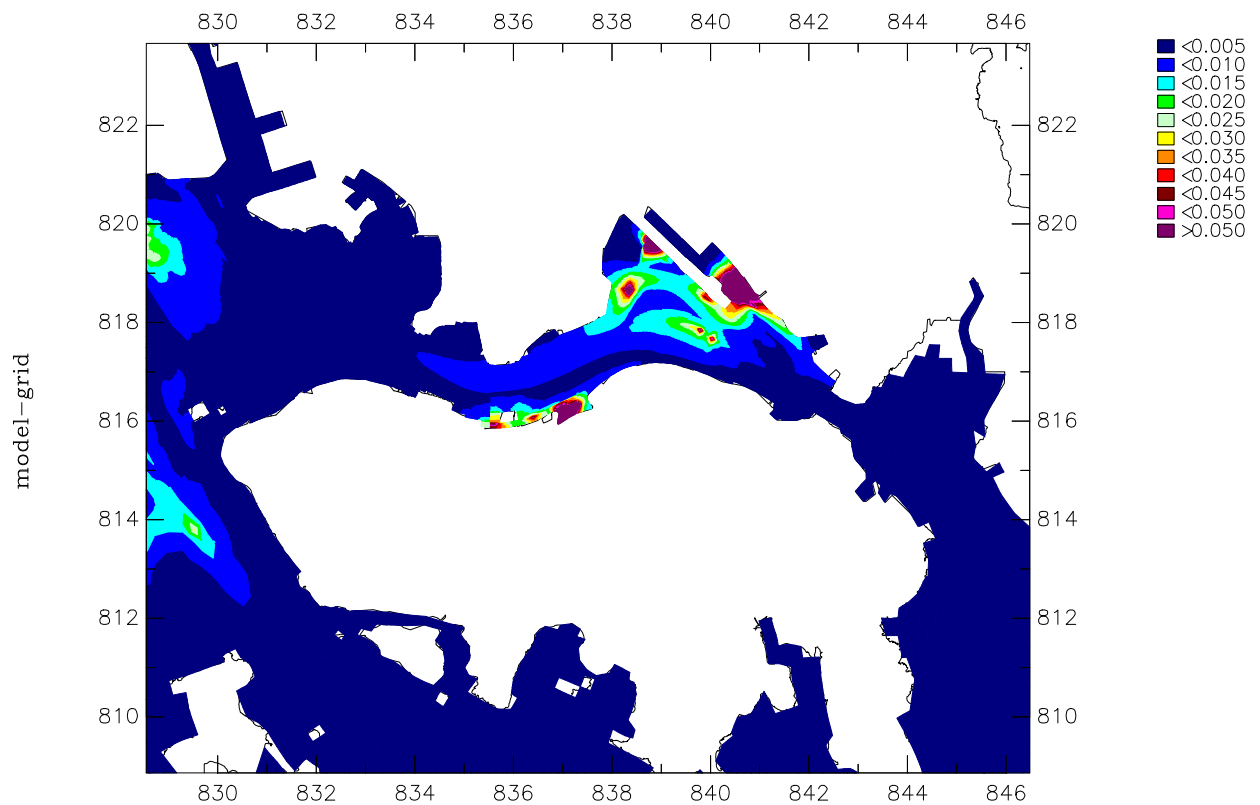
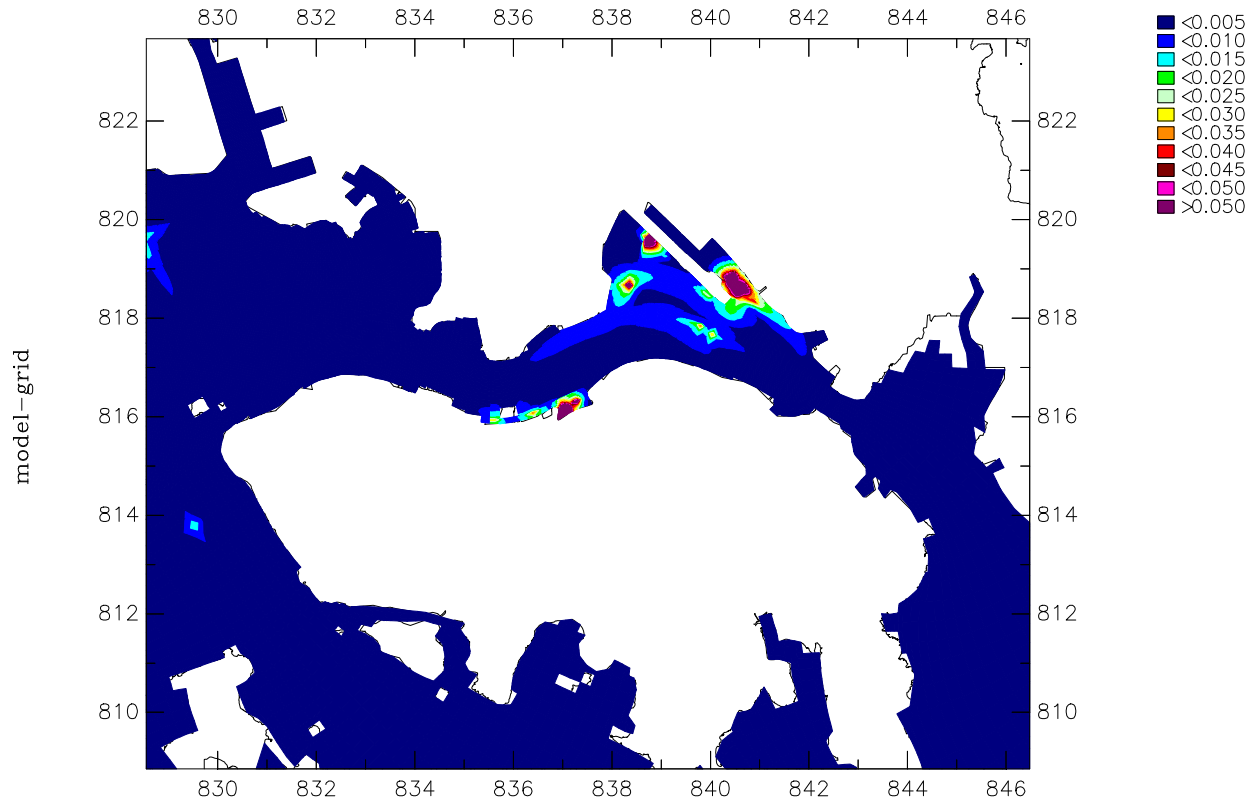


Maximum Depth-averaged Dissolved Oxygen Decrease (mg/L)
 Upper Plot: Source A (Cumulative)
 Lower Plot: Source B (Cumulative)

Dry Season

Scenario 2

Mott MacDonald Hong Kong Ltd

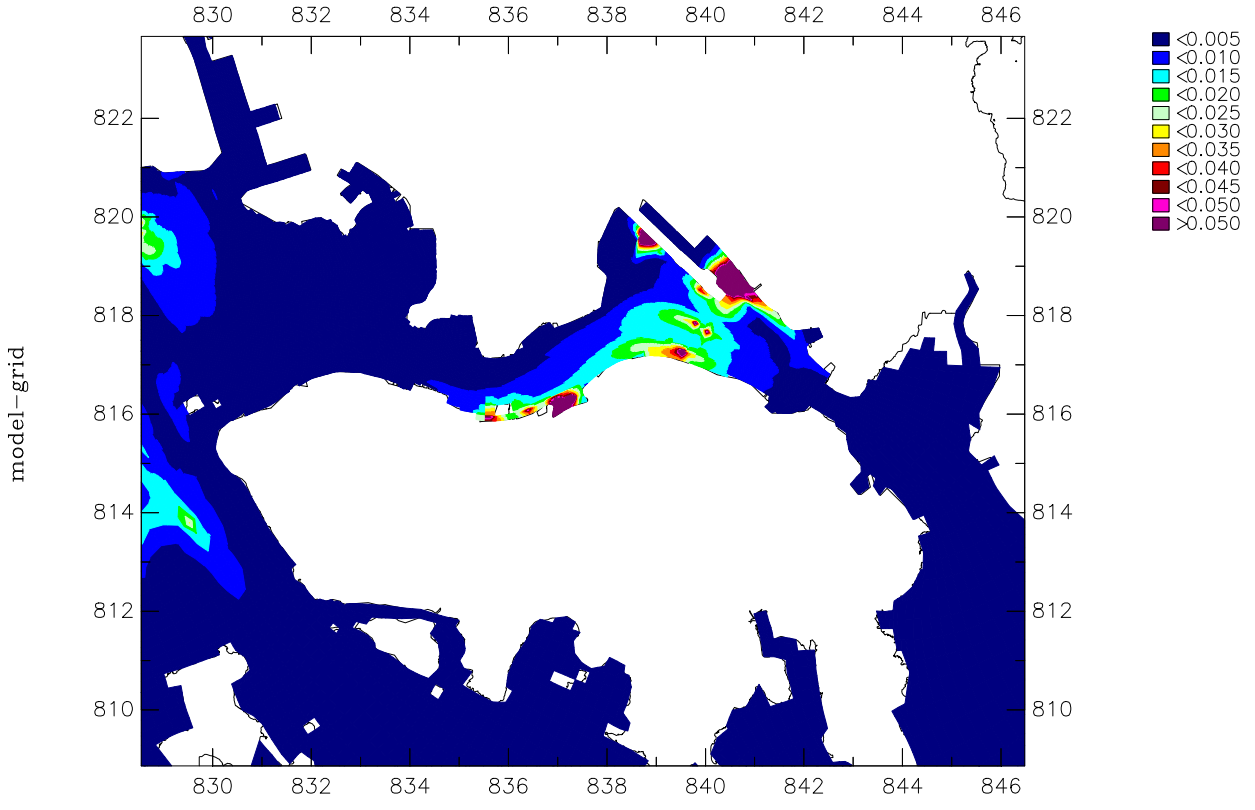
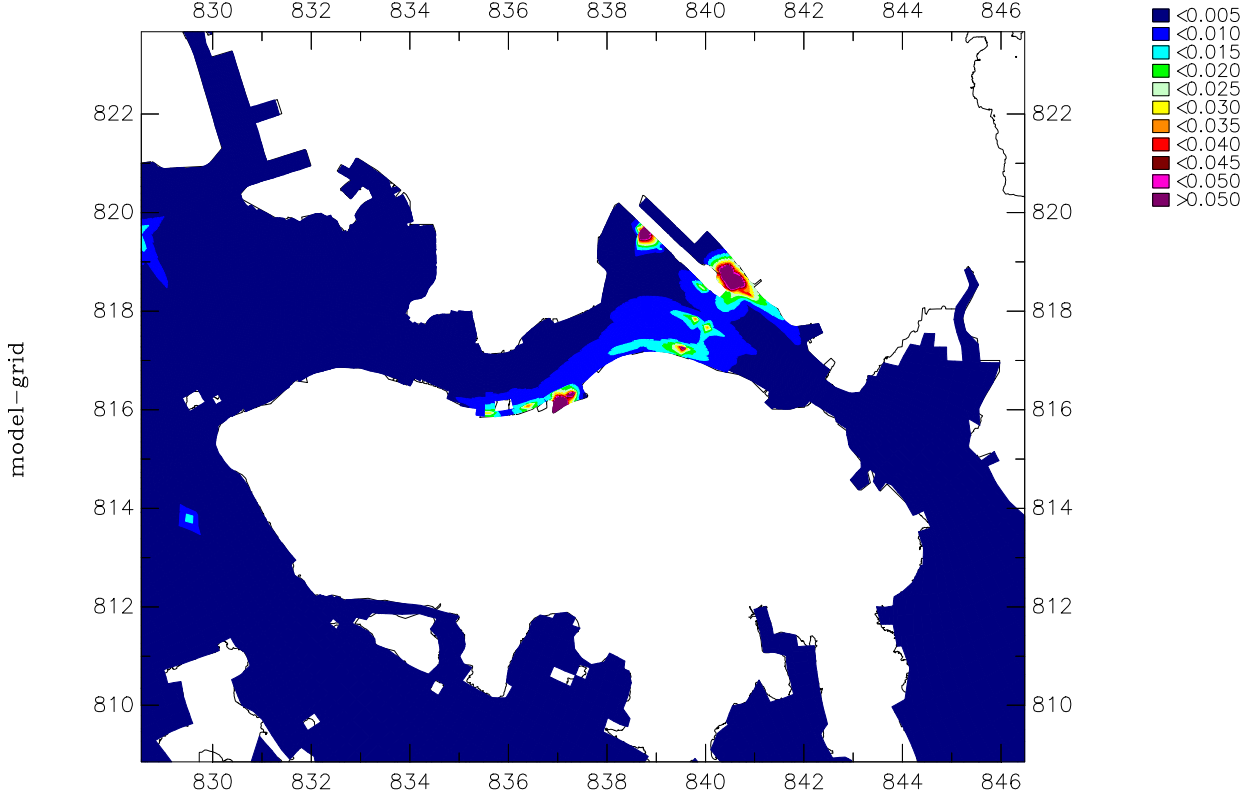


Maximum Dissolved Oxygen Decrease (mg/L) from Source A
 (Cumulative impacts from other Dredging Operations)
 Upper Plot: Top Layer; Lower Plot: Bottom Layer

Dry Season

Scenario 2

Mott MacDonald Hong Kong Ltd



Maximum Dissolved Oxygen Decrease (mg/L) from Source B
 (Cumulative impacts from other Dredging Operations)
 Upper Plot: Top Layer; Lower Plot: Bottom Layer

Dry Season

Scenario 2