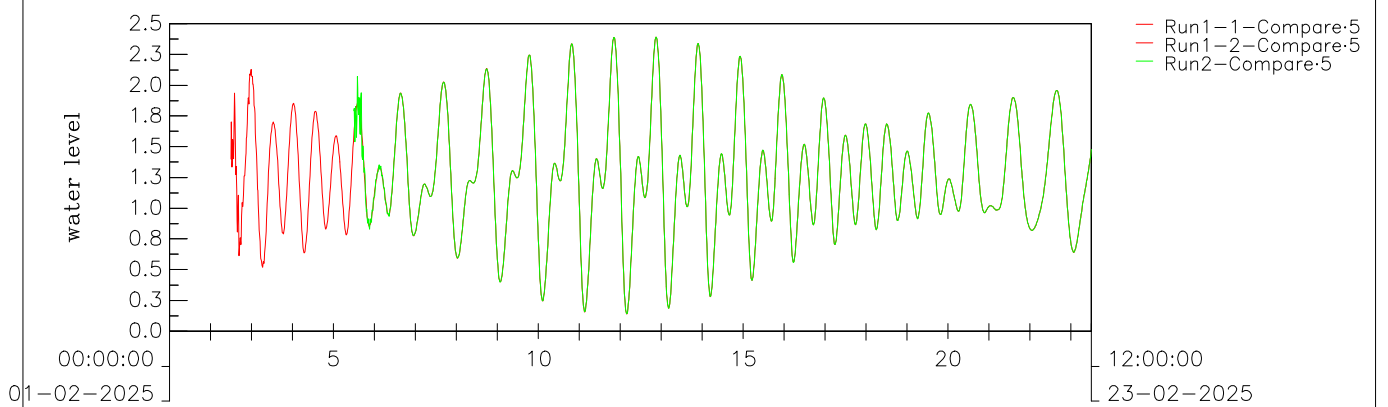
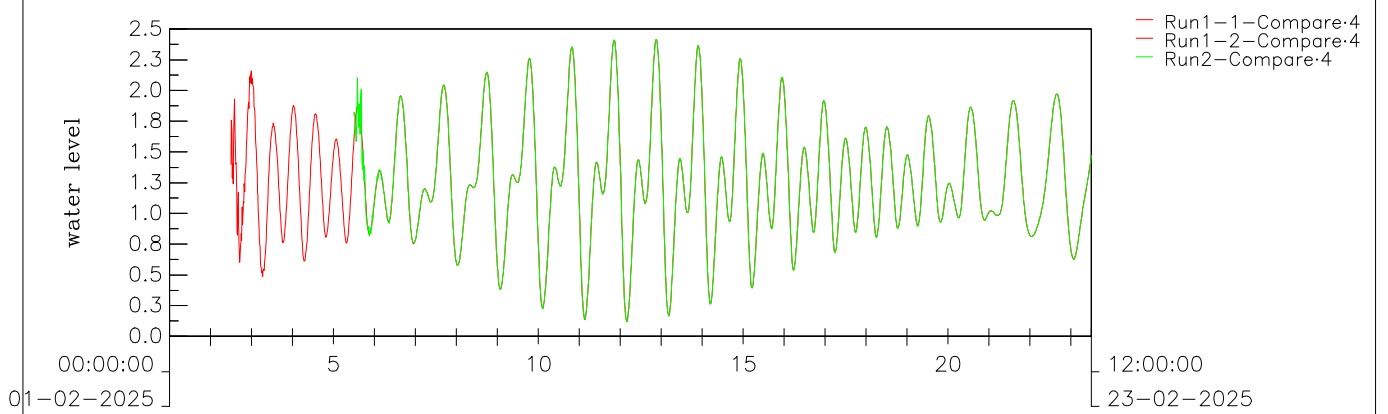
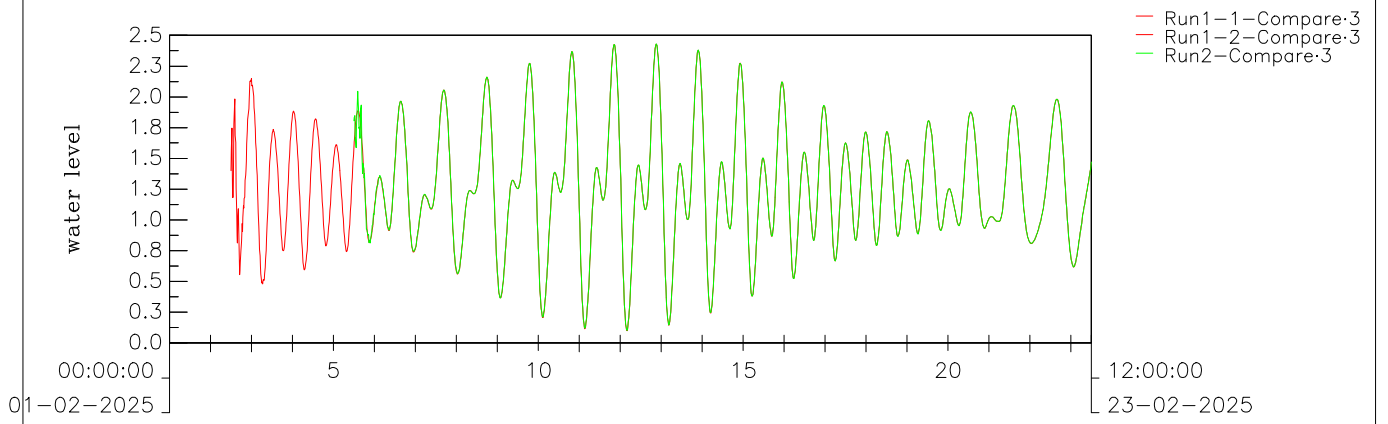
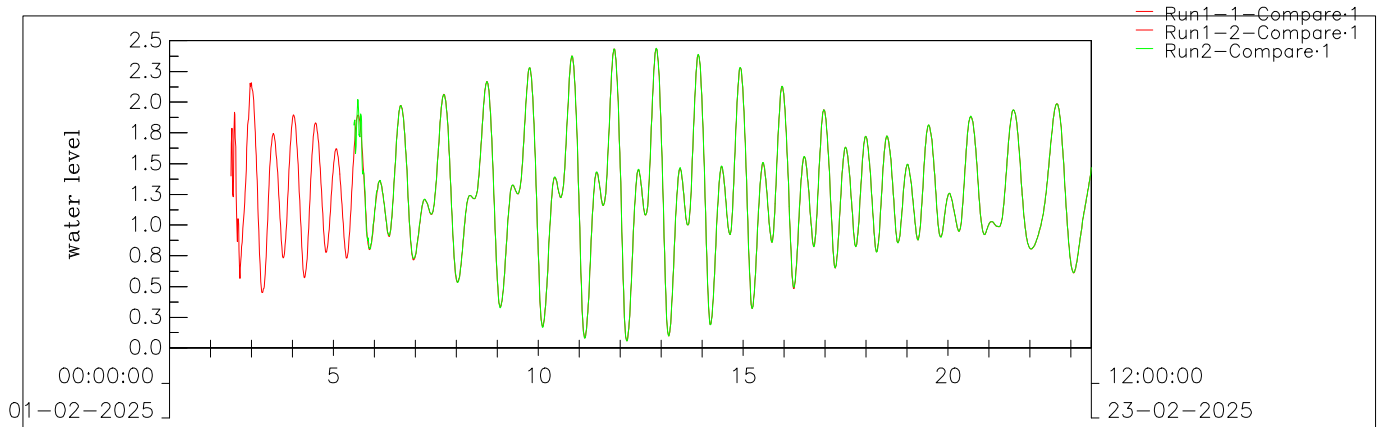


Installation of Submarine Gas Pipelines  
and Associated Facilities from  
To Kwa Wan to North Point for Former Kai Tak Airport Development  
Consultancy Services for Feasibility Study and Detailed Design  
Environmental Impact Assessment Report

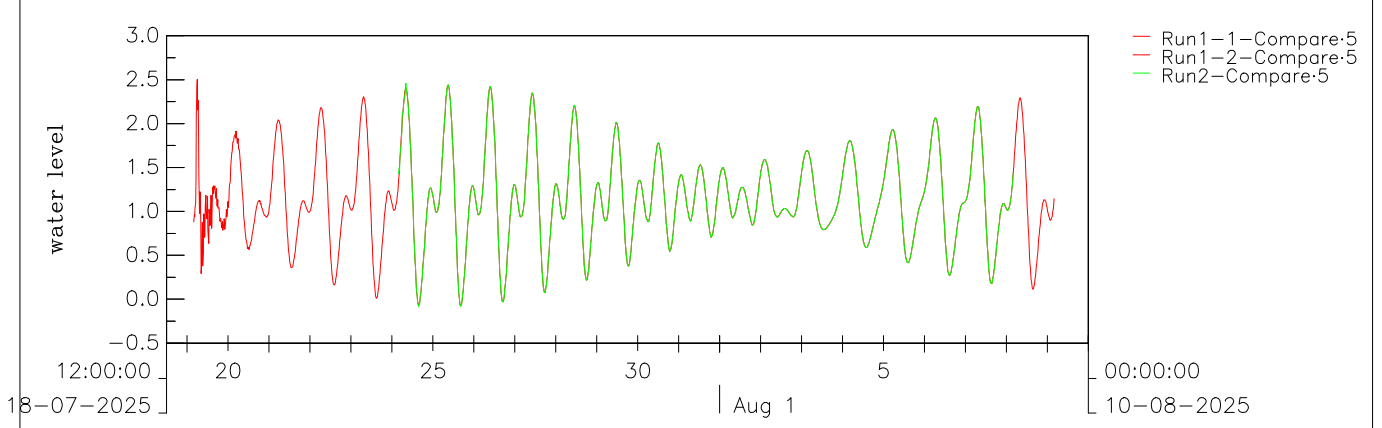
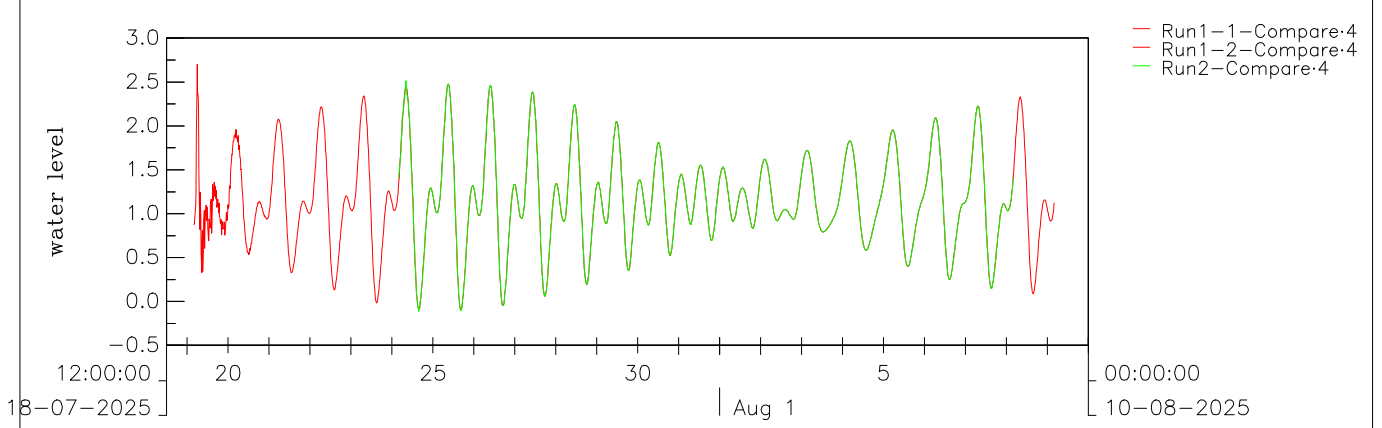
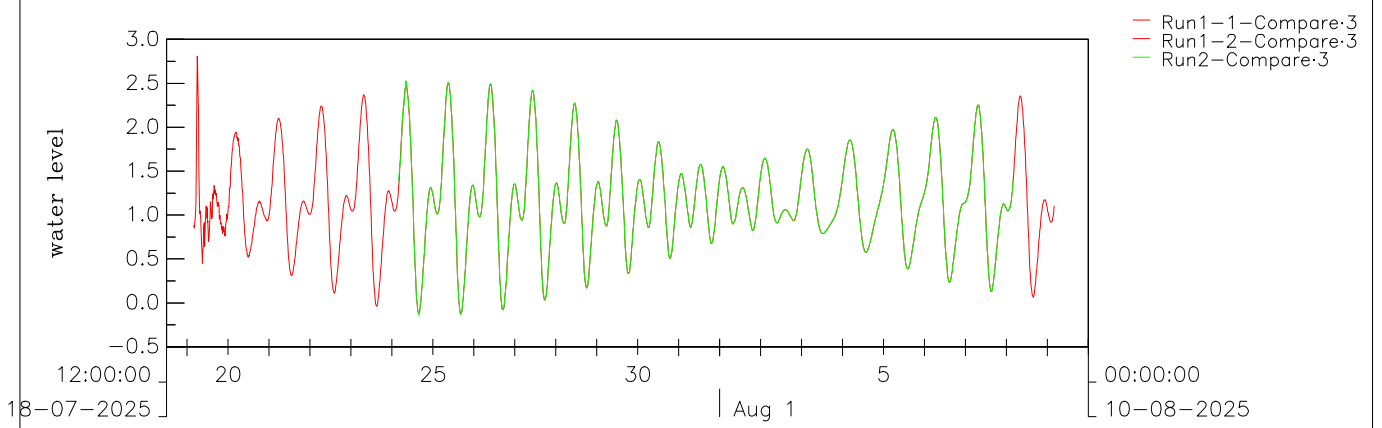
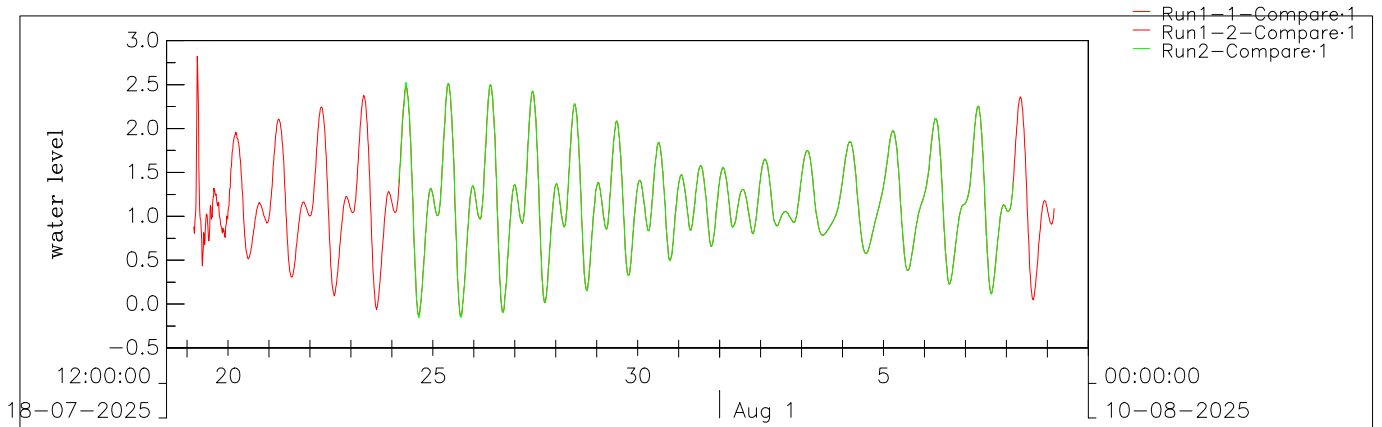


## **Appendix B1**

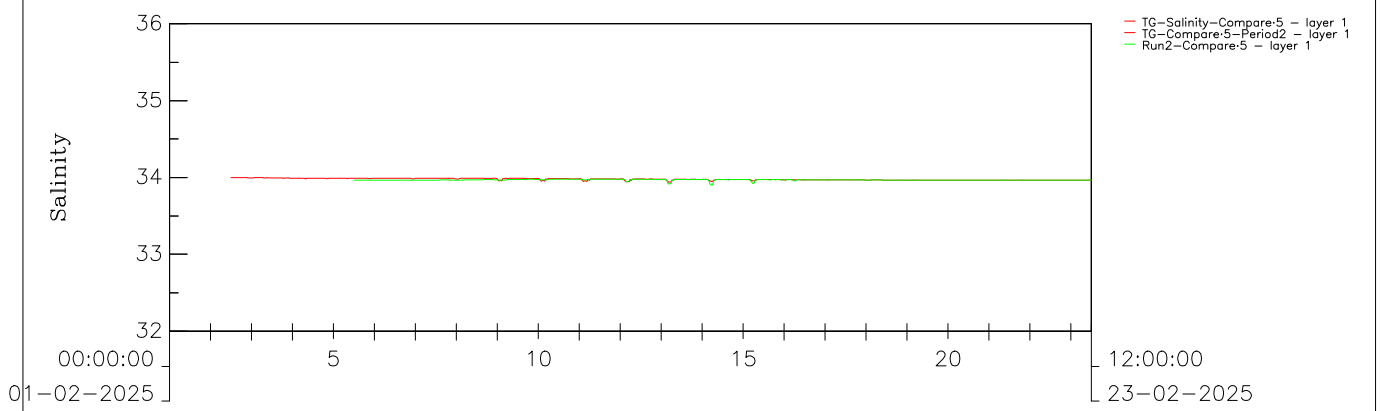
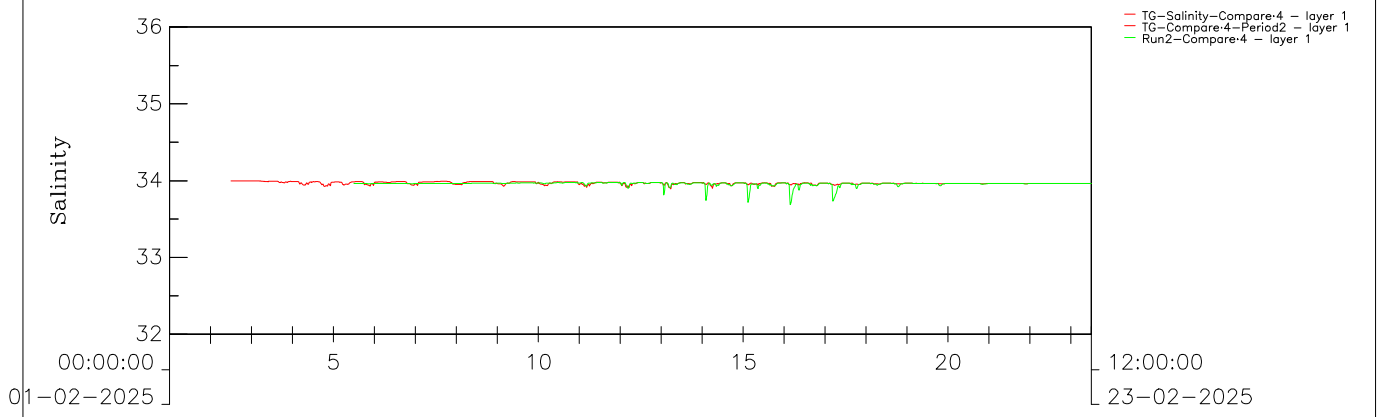
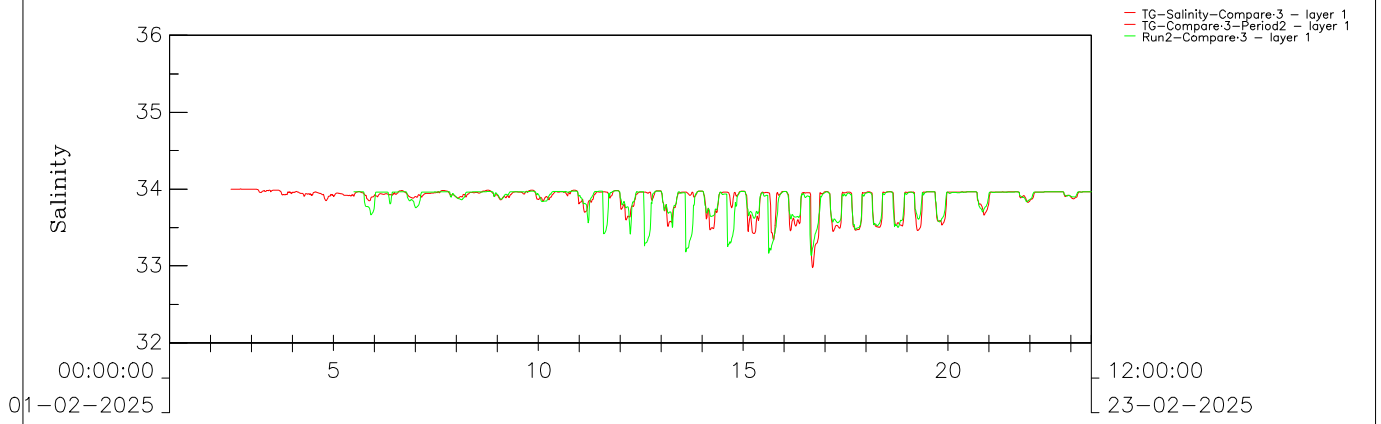
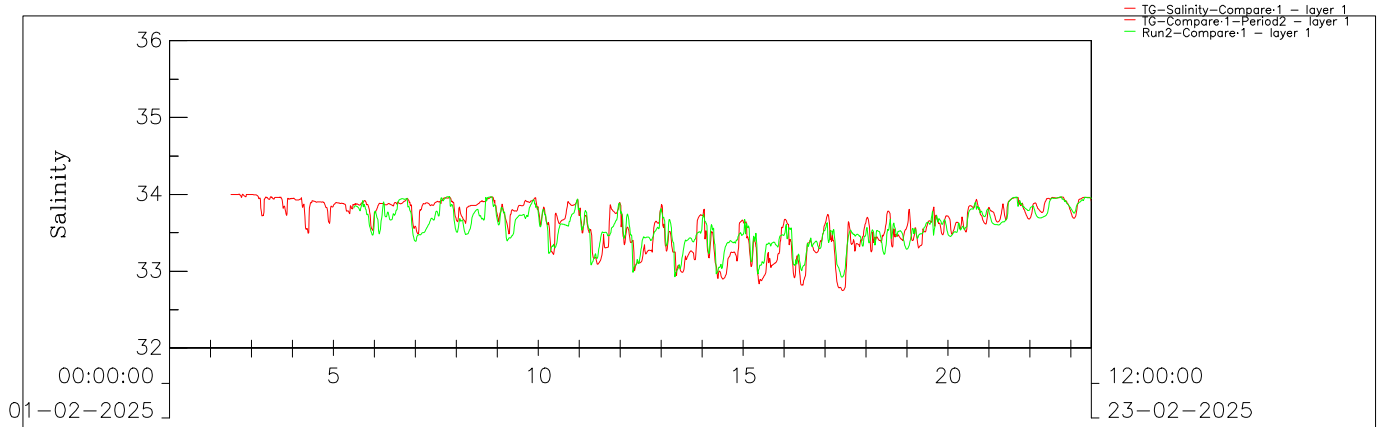
### **Model Verification and Spin-up Plots**



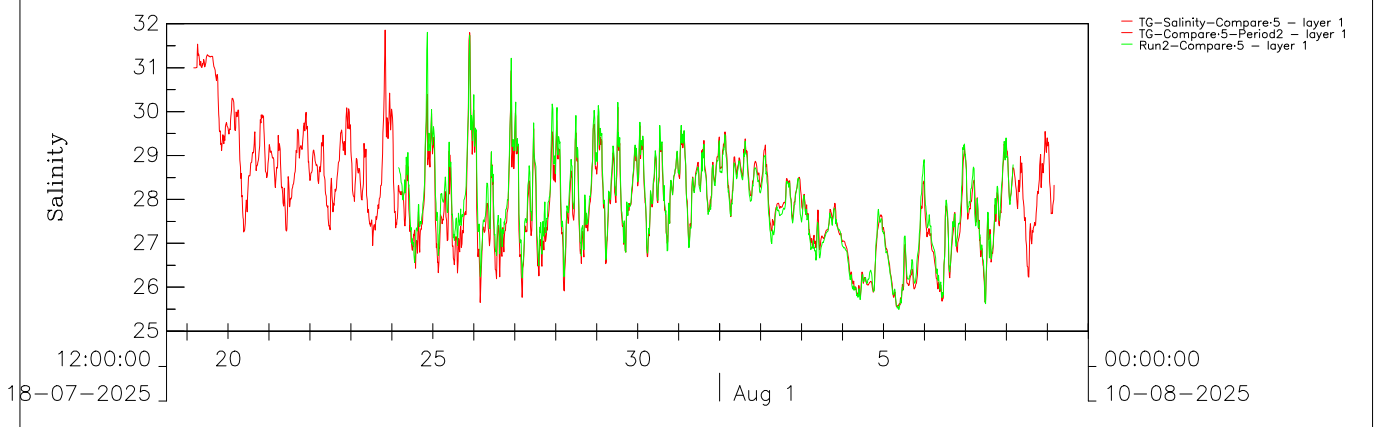
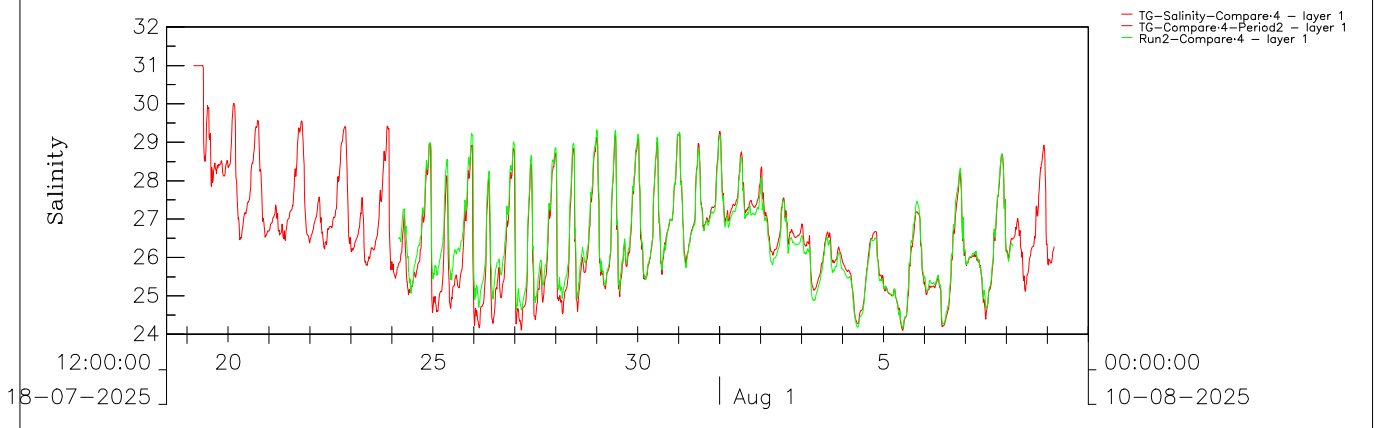
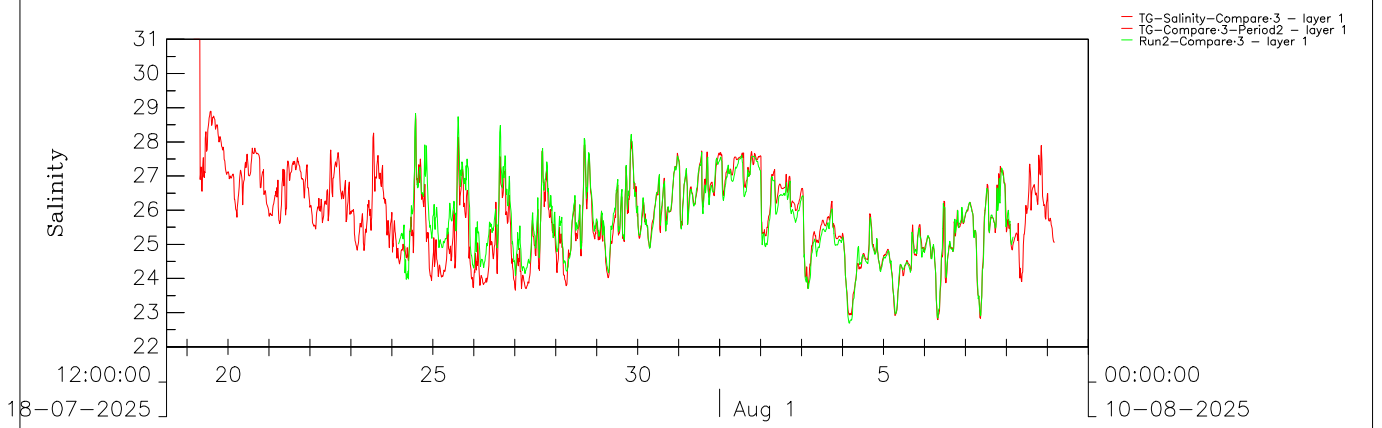
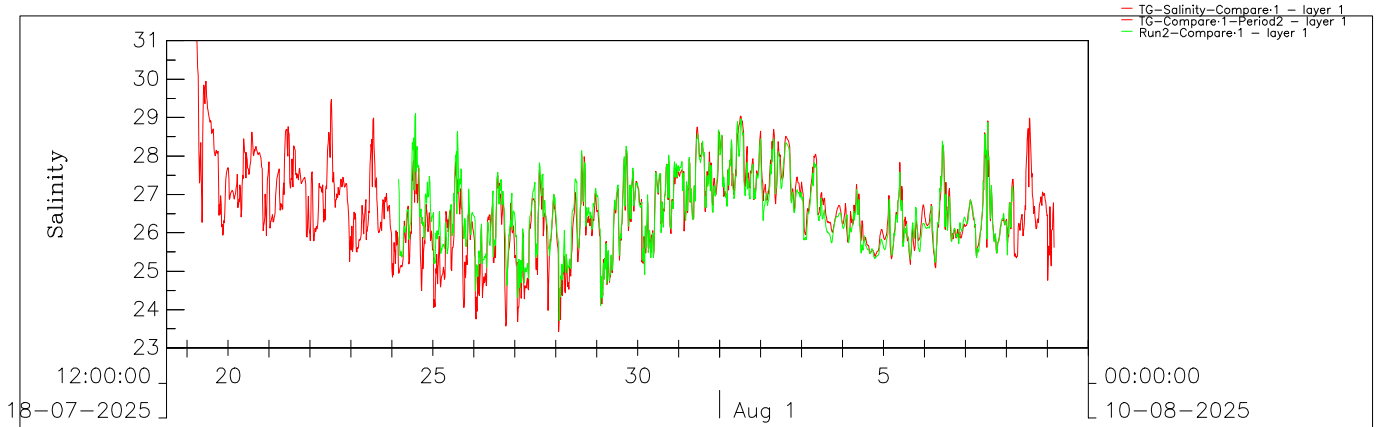
Comparison of two Spring-neap cycles Water Level Red Line: Run 1 (period1+period2); Green Line: Run 2	Dry	
Mott MacDonald Hong Kong Ltd.		



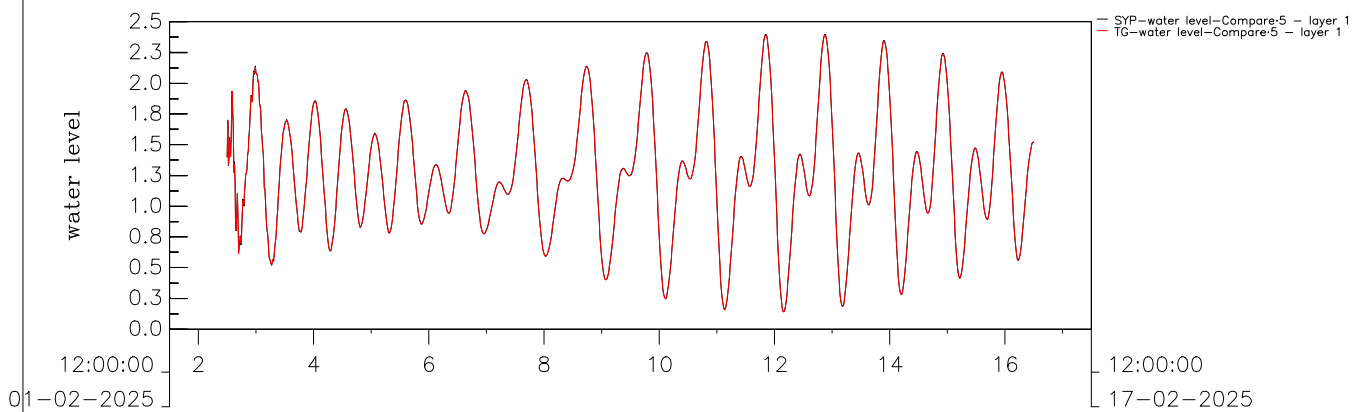
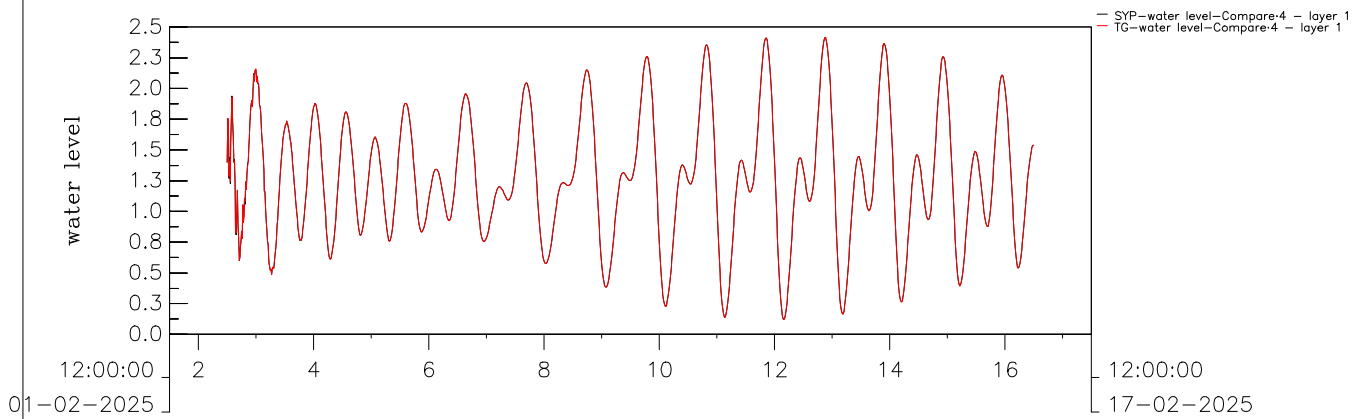
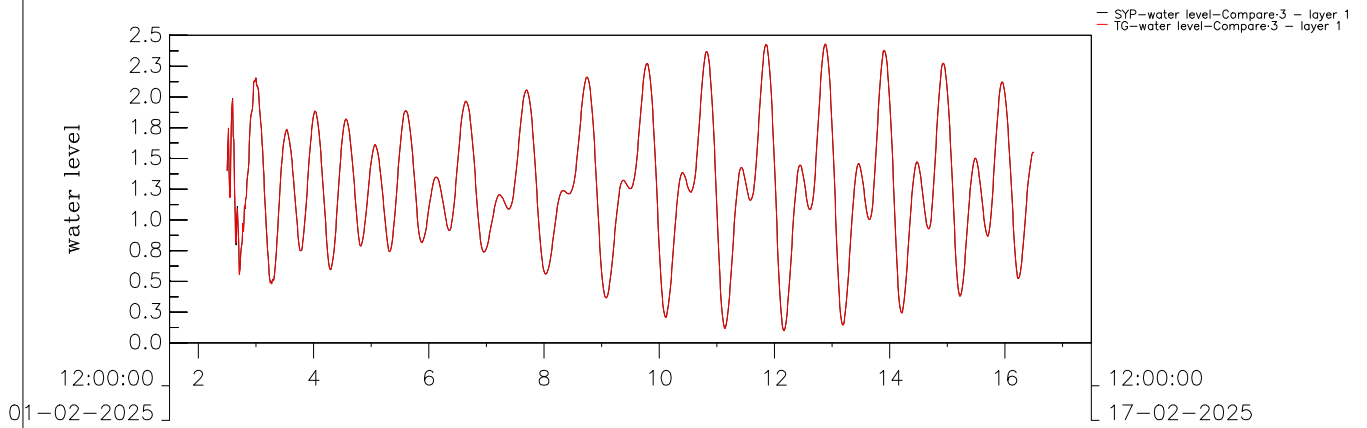
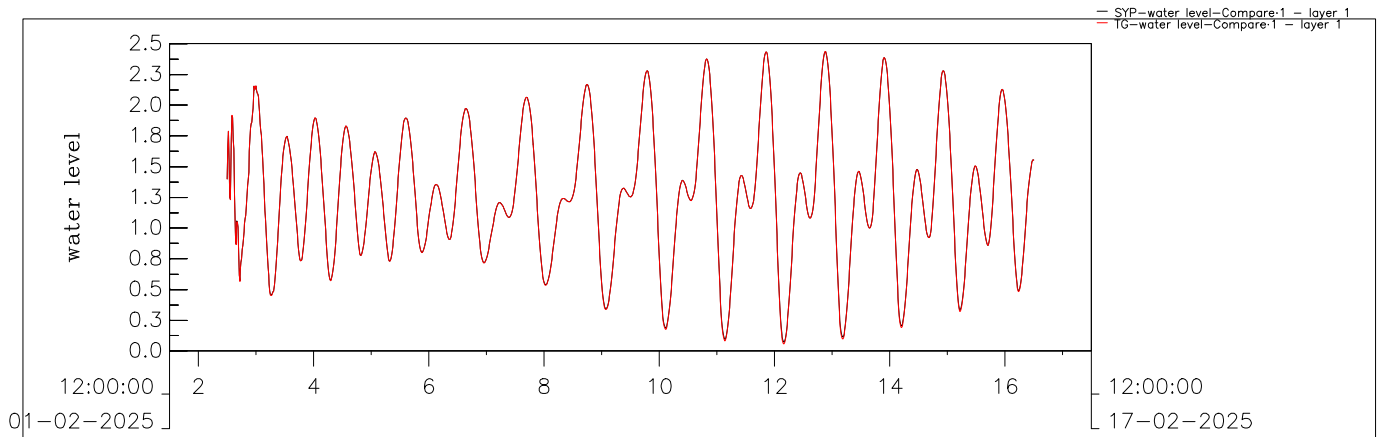
Comparison of two Spring-neap cycles	Wet	
Water Level		
Red Line: Run 1 (period1+period2); Green Line: Run 2		
Mott MacDonald Hong Kong Ltd.		



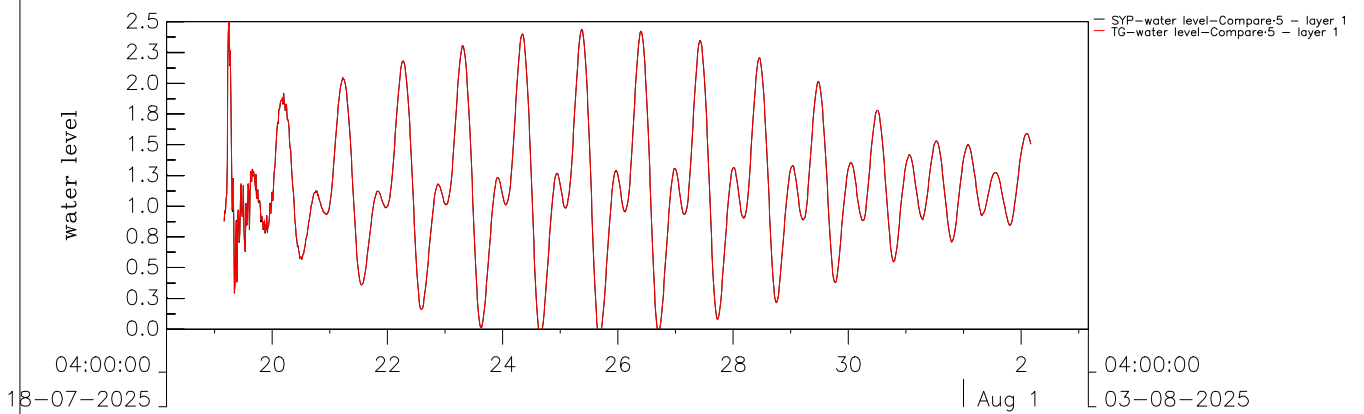
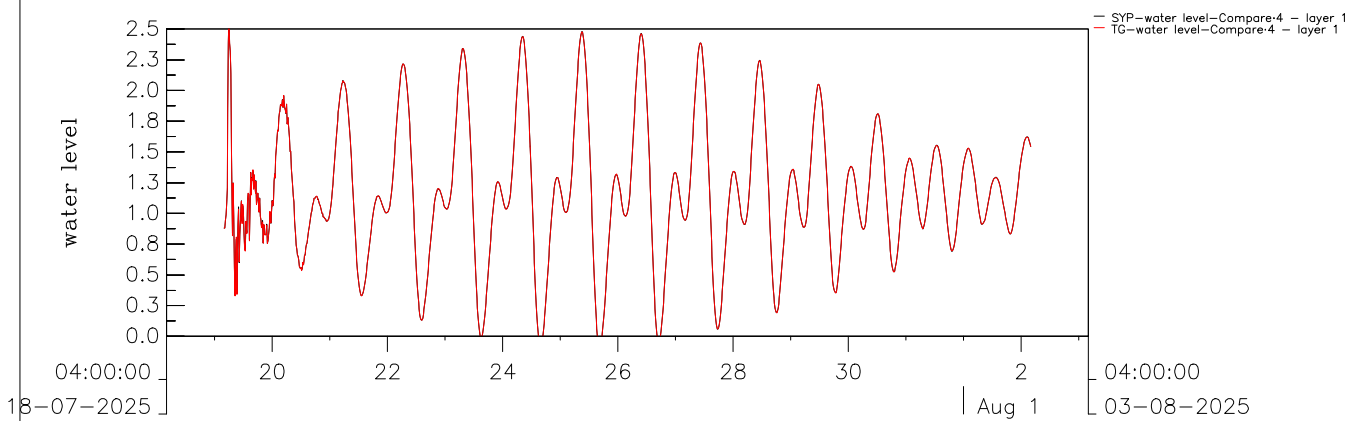
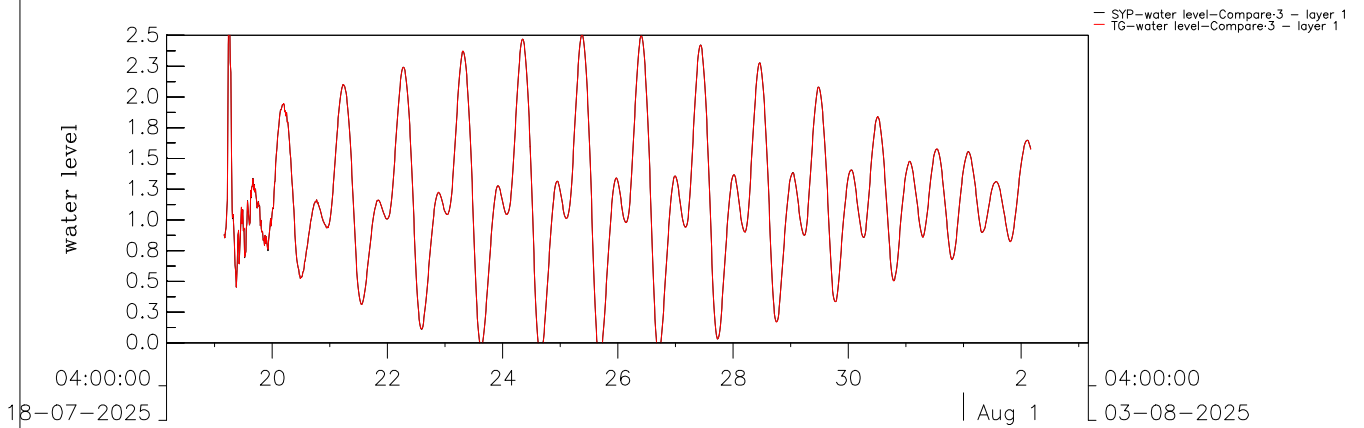
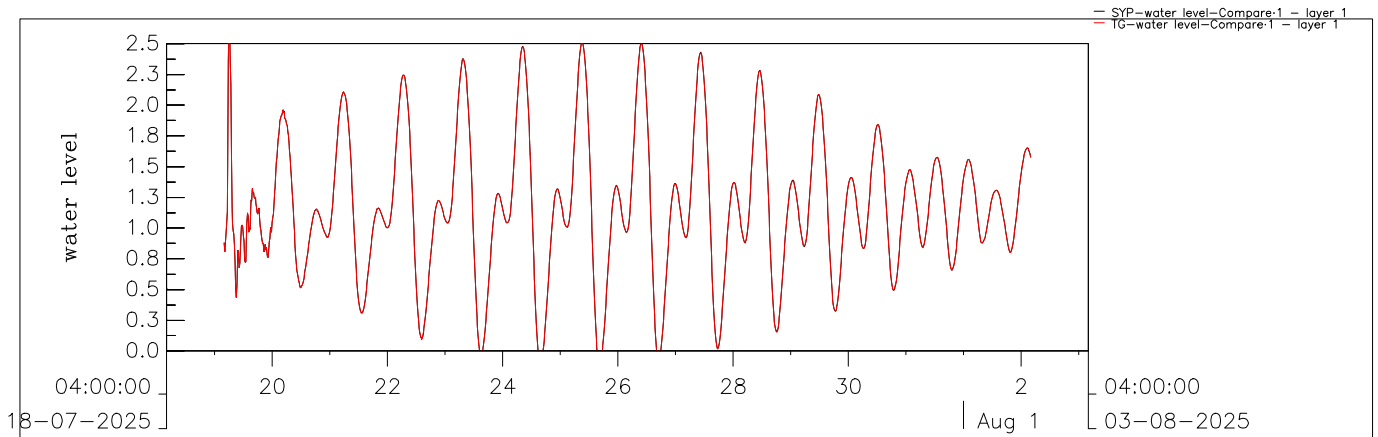
Comparison of two Spring-neap cycles	Dry	
Salinity		
Red Line: Run 1 (period1+period2); Green Line: Run 2		
Mott MacDonald Hong Kong Ltd.		



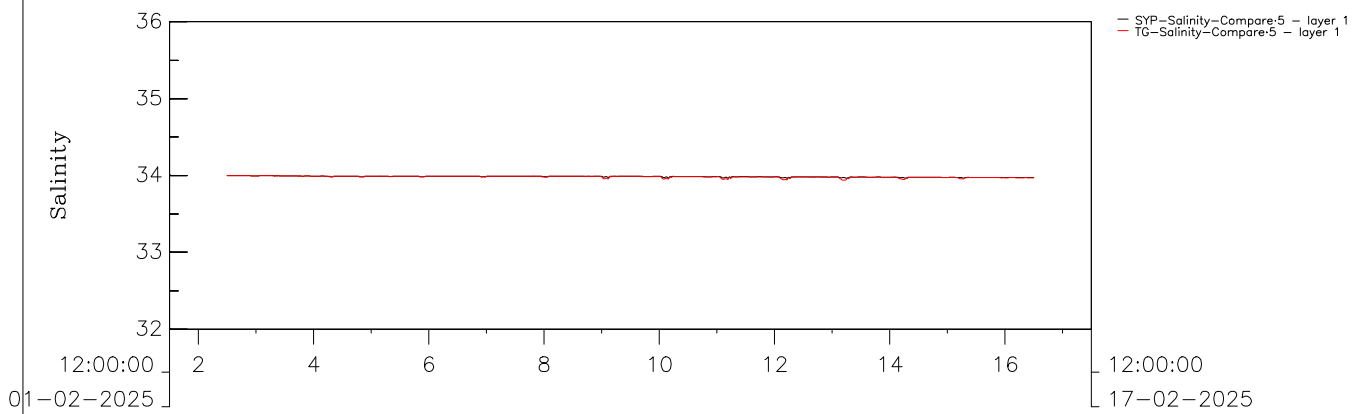
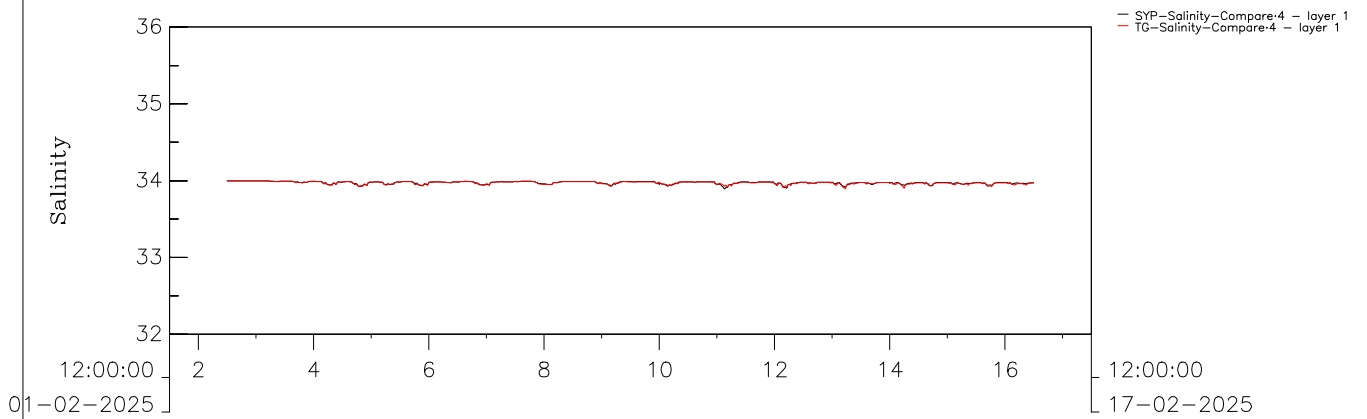
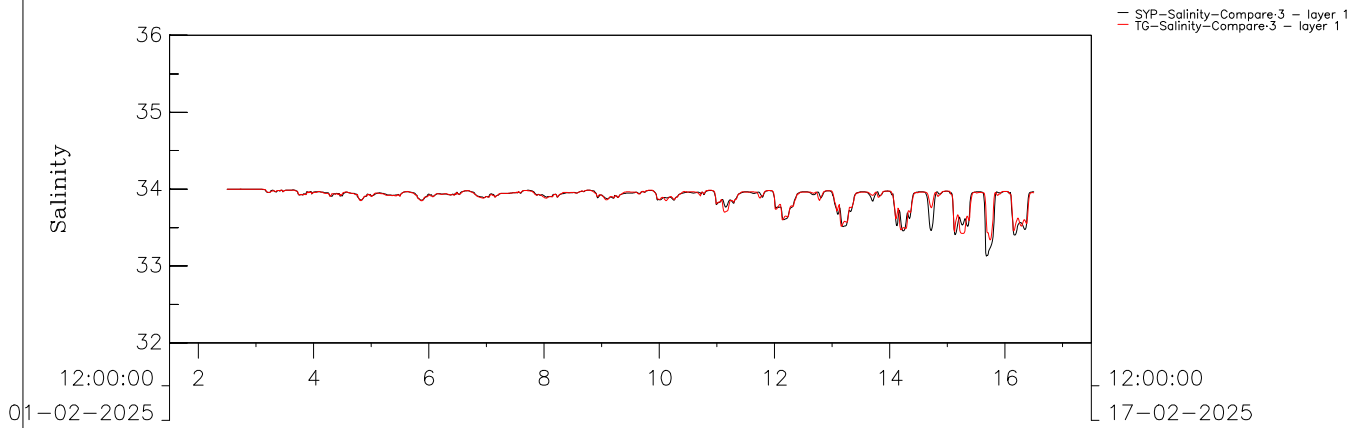
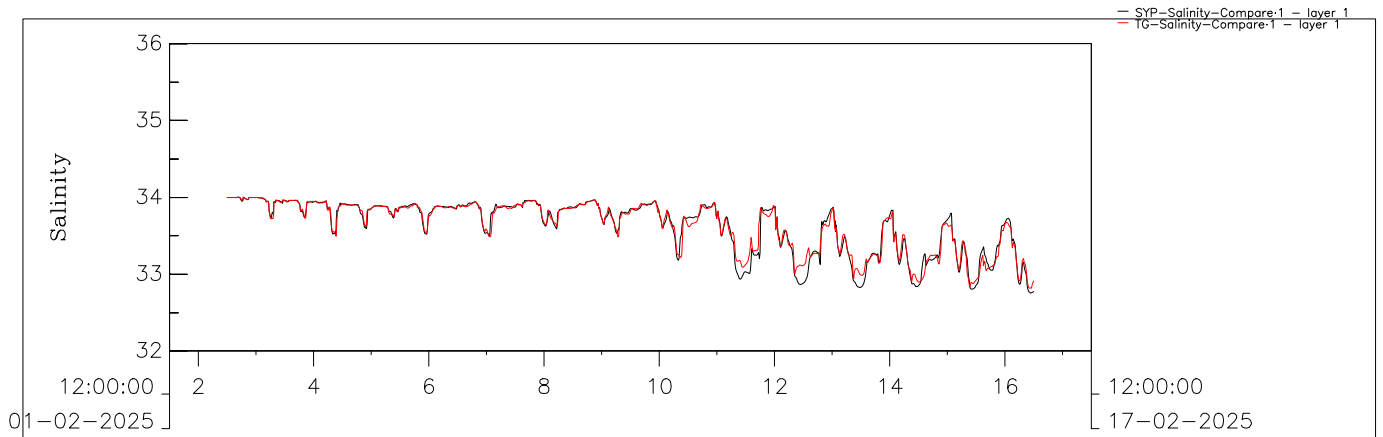
Comparison of two Spring-neap cycles	Wet	
Salinity		
Red Line: Run 1 (period1+period2); Green Line: Run 2		
Mott MacDonald Hong Kong Ltd.		



Water level (m) Orange line: Towngas Model; Black line: Sai Ying Pun Model	Dry	Period 1
	Surface Layer	
Mott MacDonald Hong Kong Ltd		

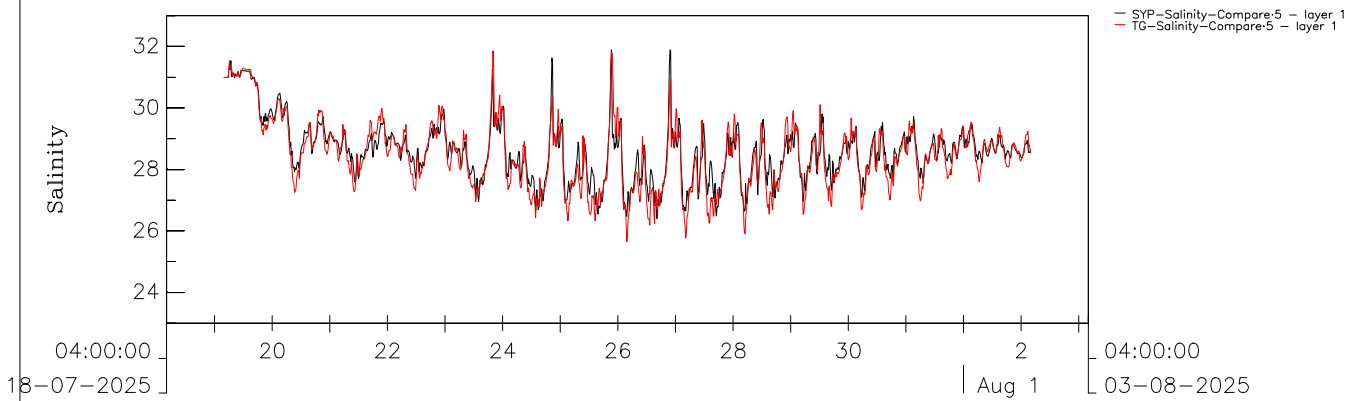
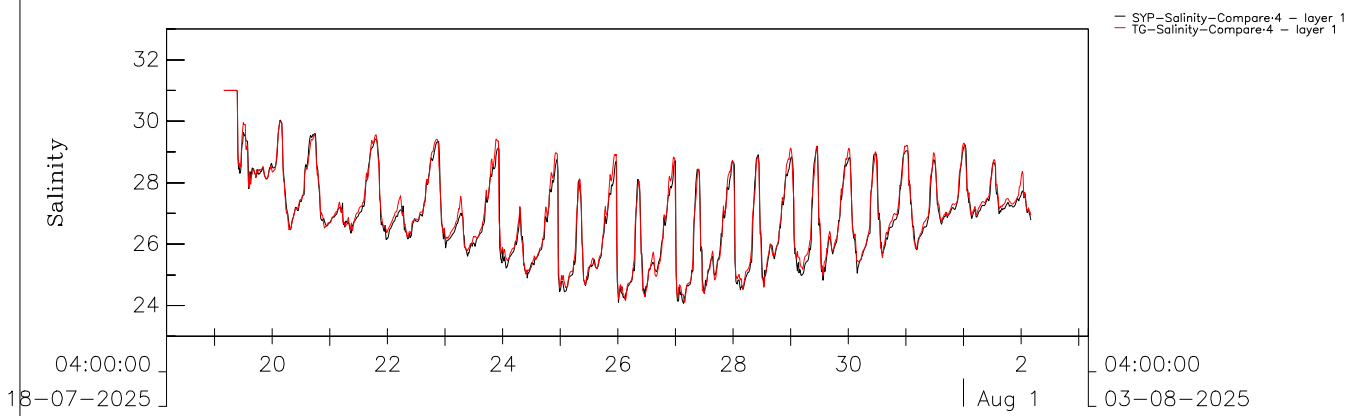
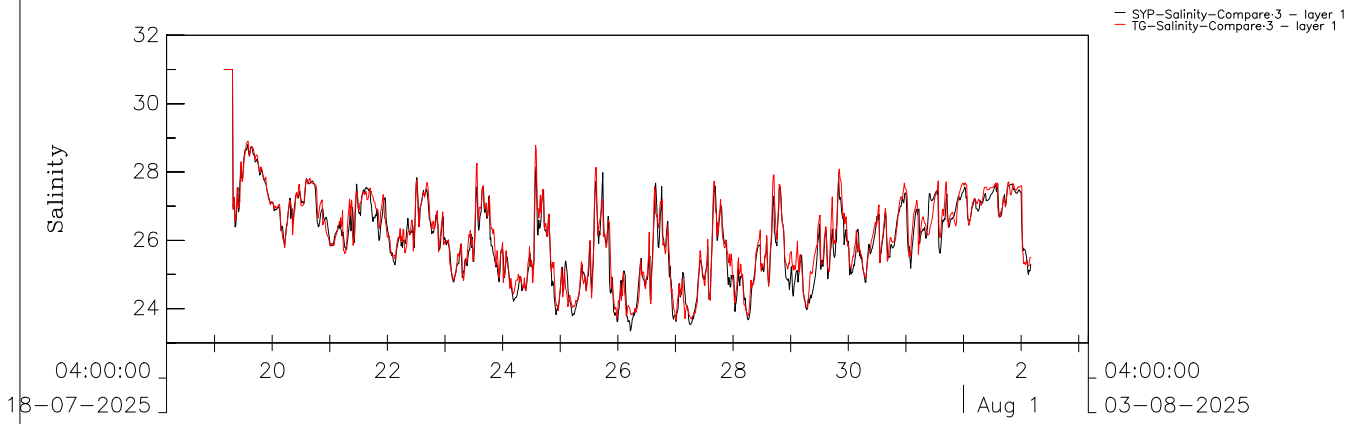
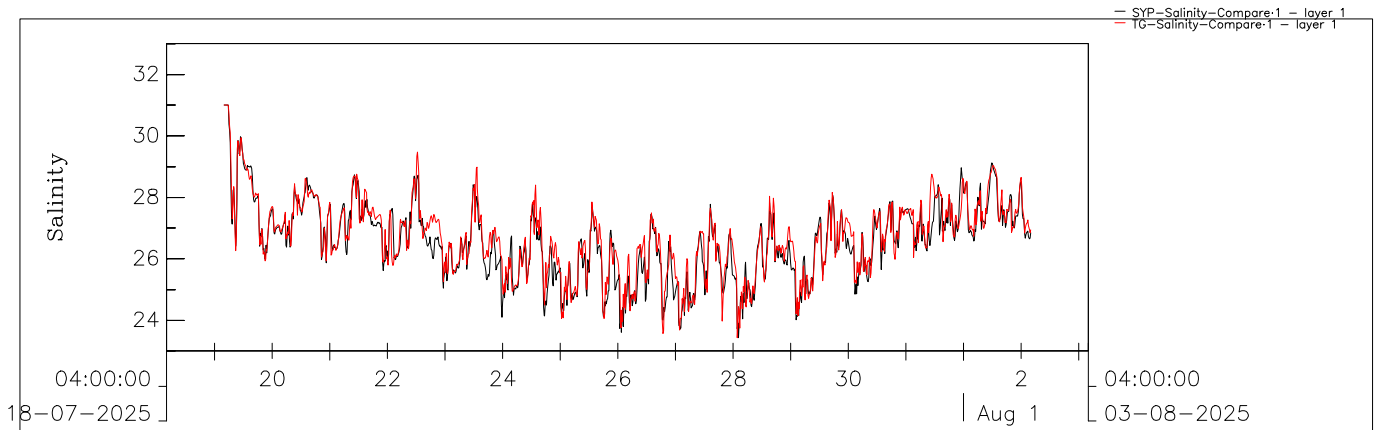


Water level (m) Orange line: Towngas Model; Black line: Sai Ying Pun Model	Wet	Period 1
	Surface Layer	
Mott MacDonald Hong Kong Ltd		

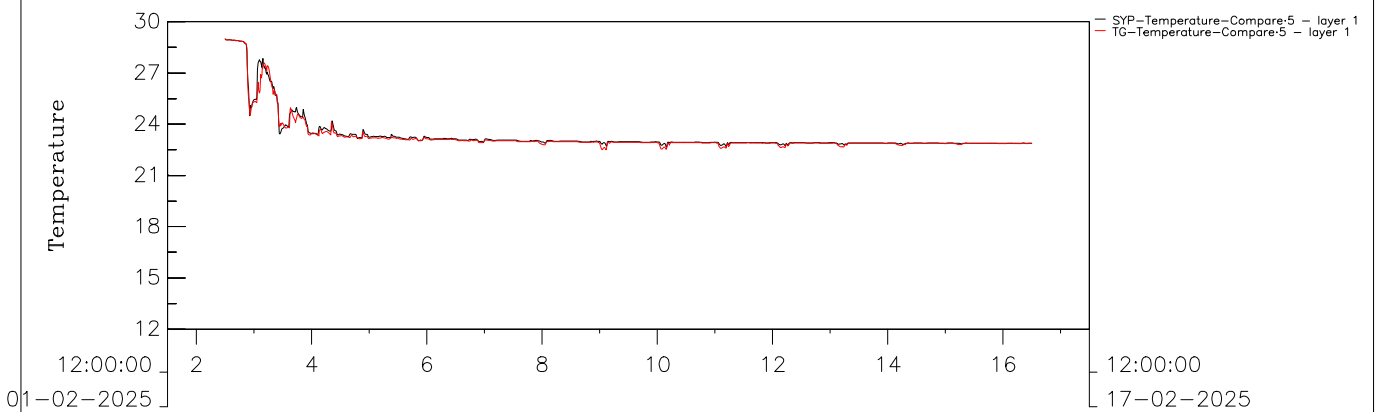
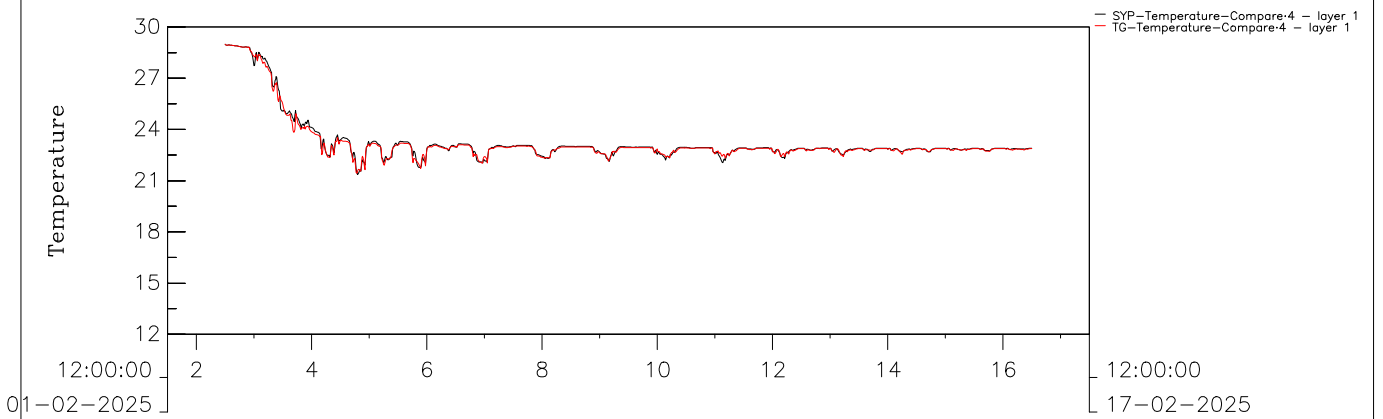
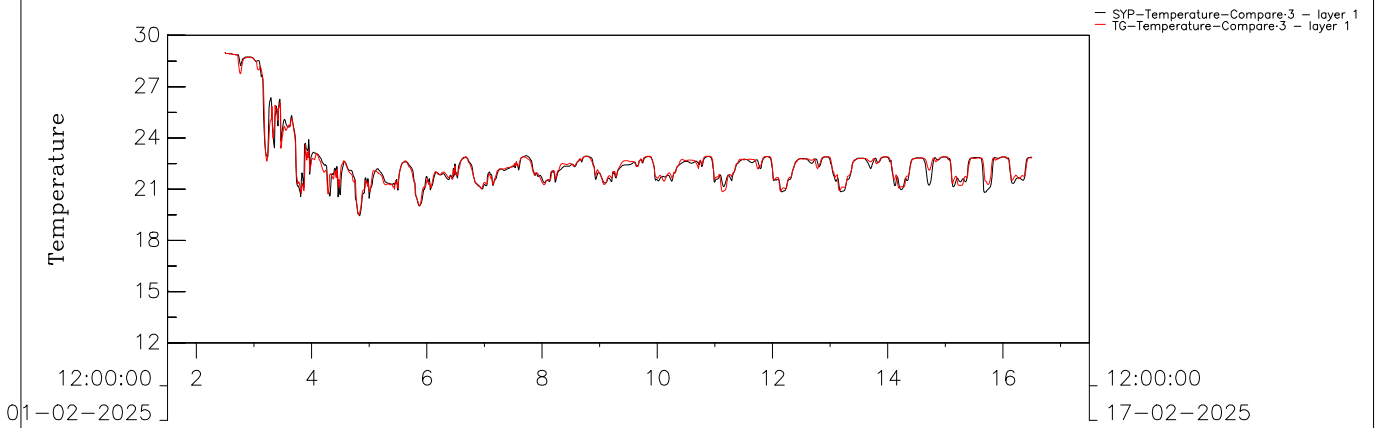
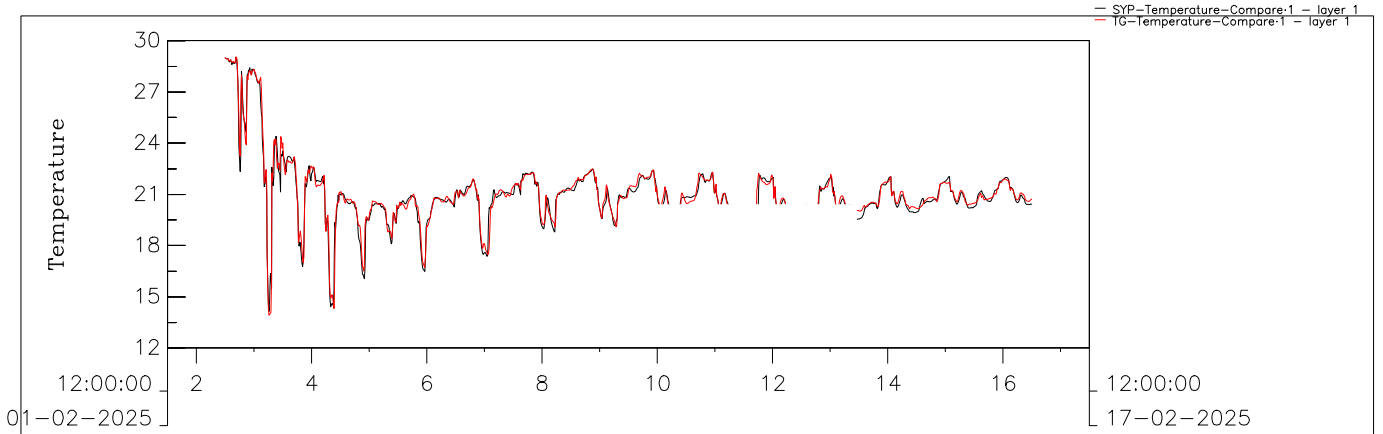


Salinity (ppm) Orange line: Towngas Model; Black line: Sai Ying Pun Model	Dry	Period 1
	Surface Layer	
Mott MacDonald Hong Kong Ltd		

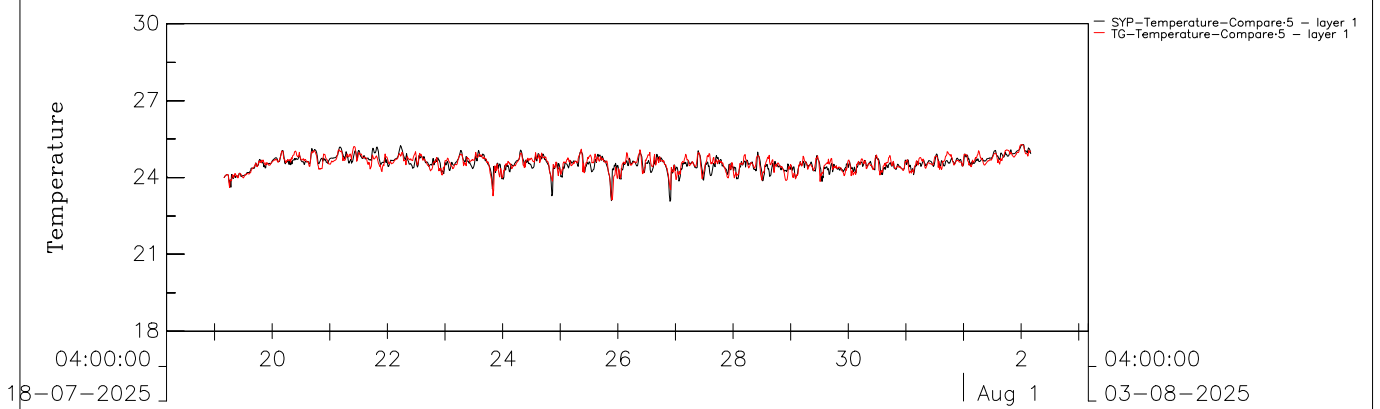
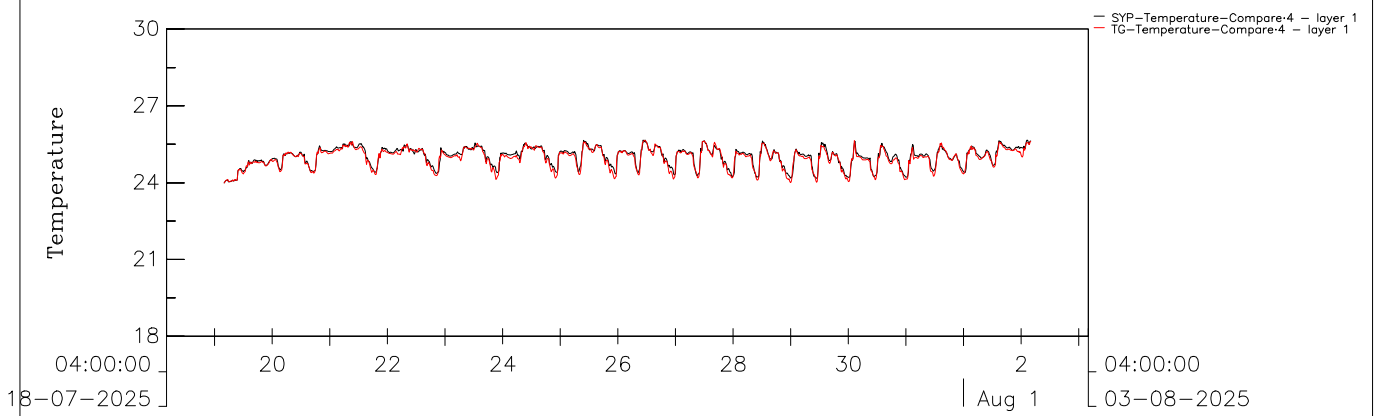
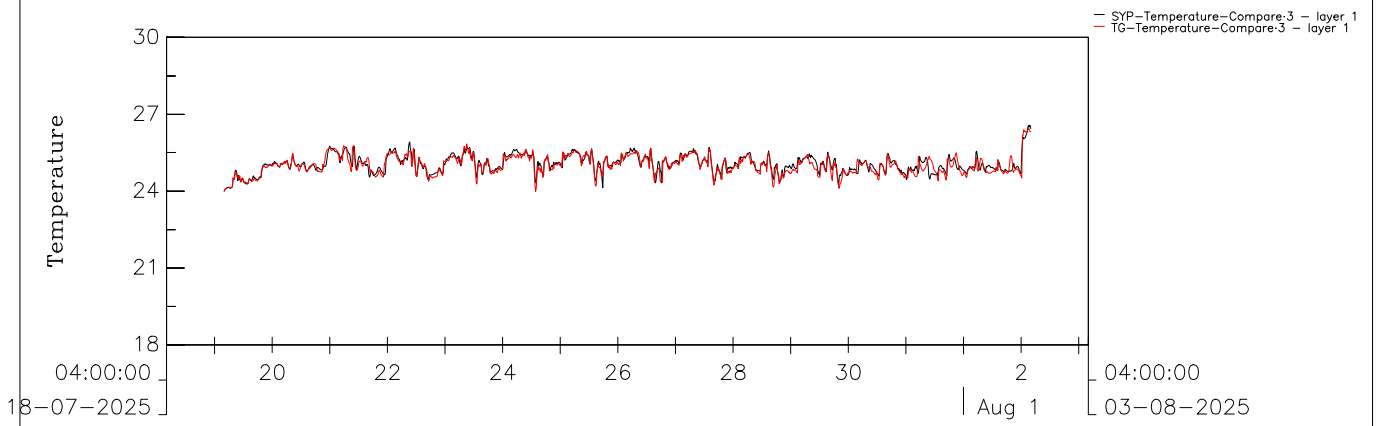
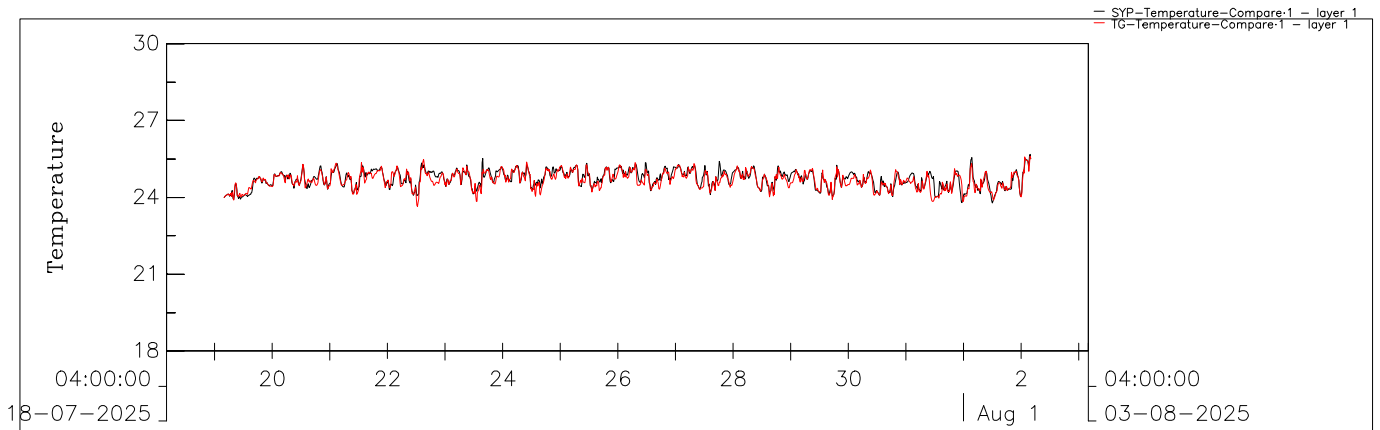




Salinity (ppt) Orange line: Towngas Model; Black line: Sai Ying Pun Model	Wet	Period 1
	Surface Layer	
Mott MacDonald Hong Kong Ltd		



Temperature (Degree Celcius) Orange line: Towngas Model; Black line: Sai Ying Pun Model	Dry	Period 1
	Surface Layer	
Mott MacDonald Hong Kong Ltd		



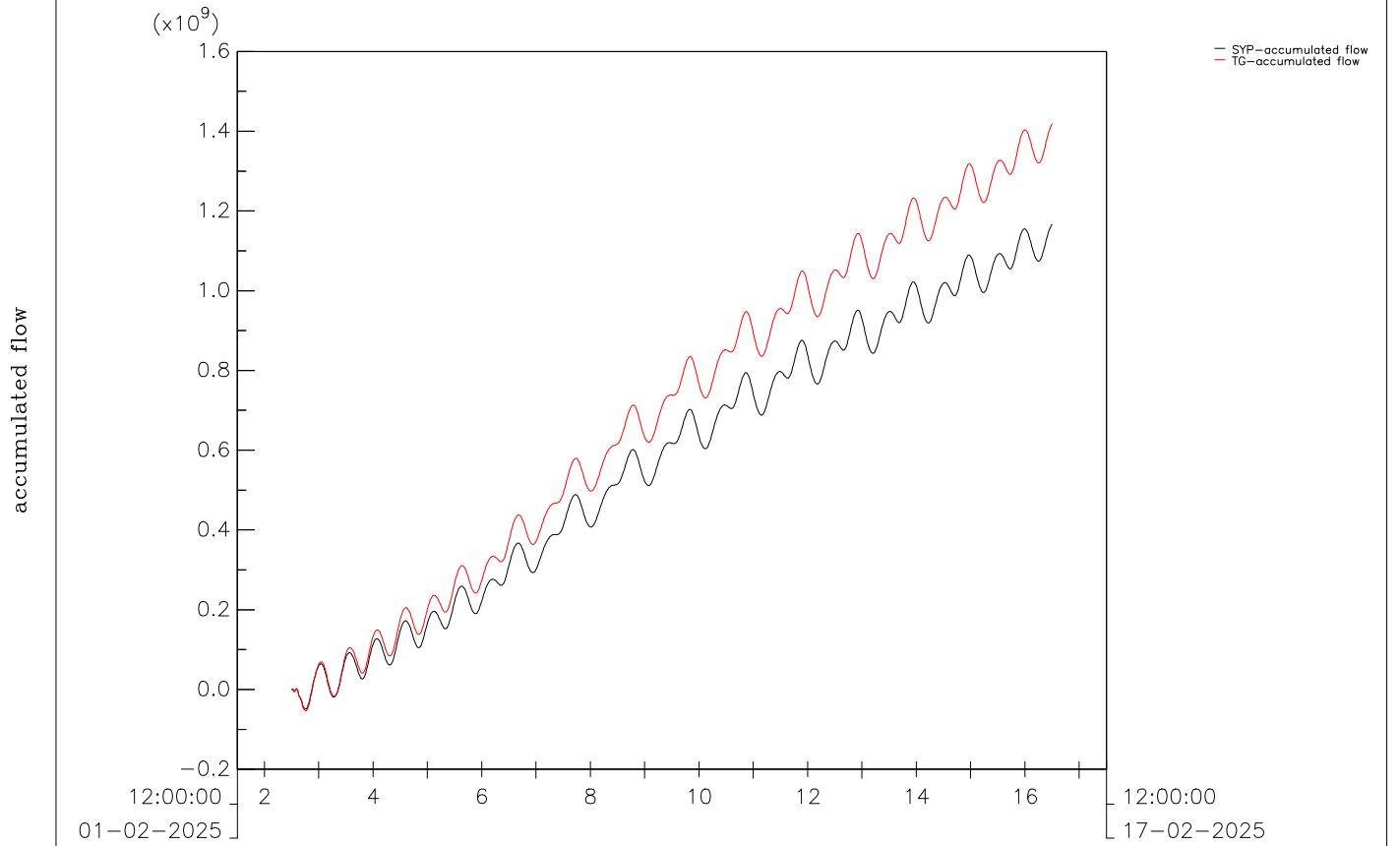
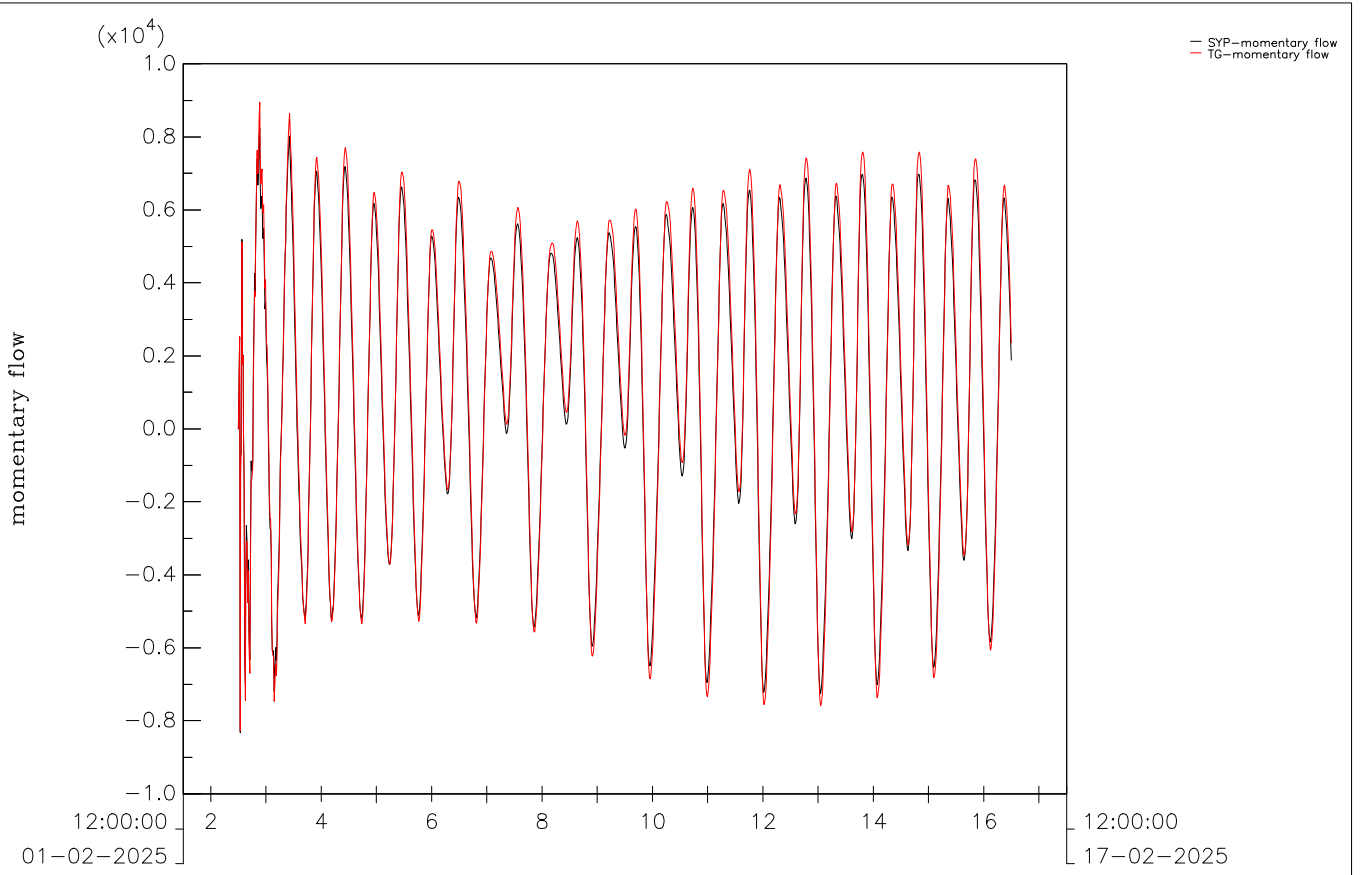
Temperature (Degree Celcius)  
Orange line: Towngas Model; Black line: Sai Ying Pun Model

Wet

Period 1

Surface Layer

Mott MacDonald Hong Kong Ltd

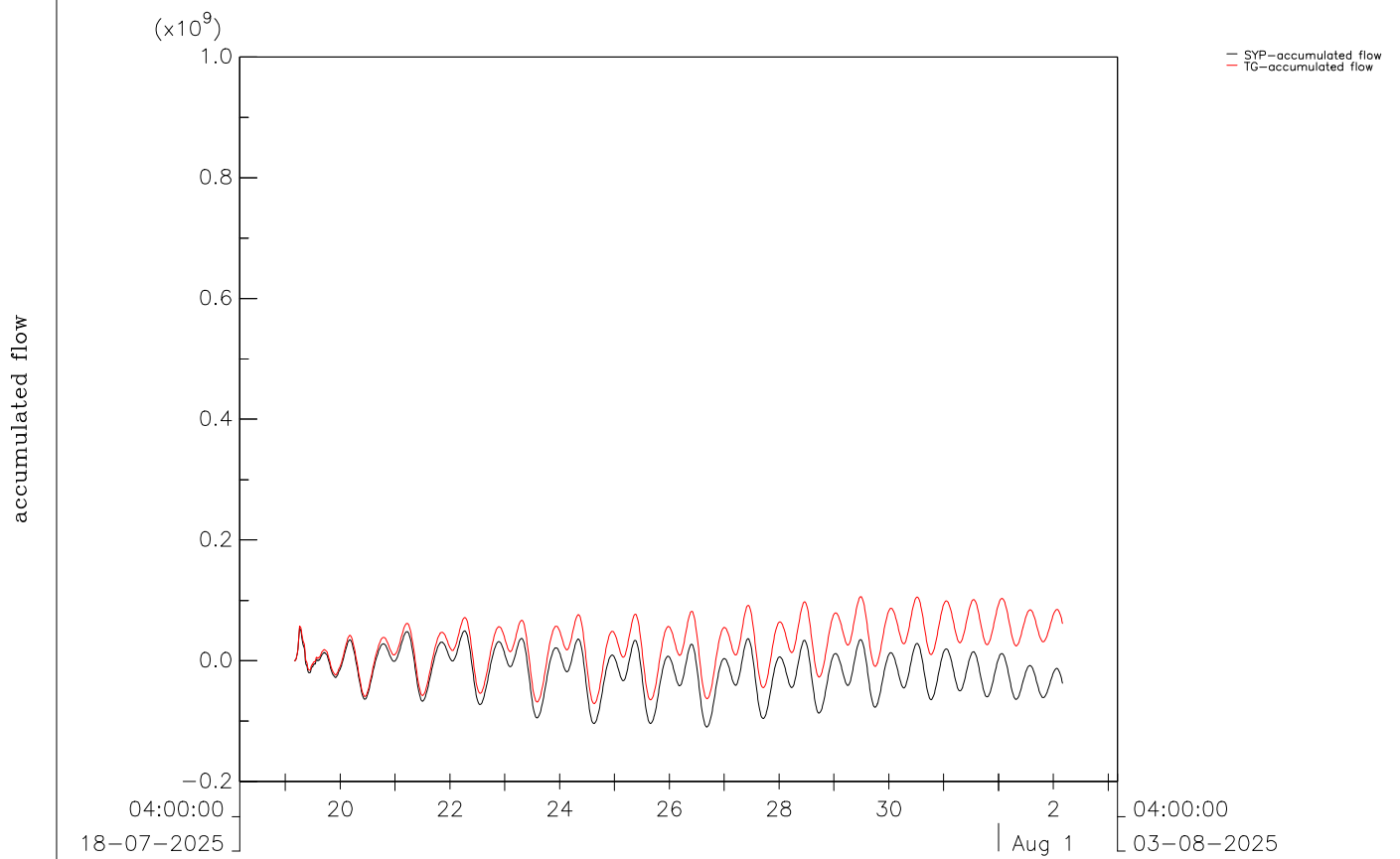
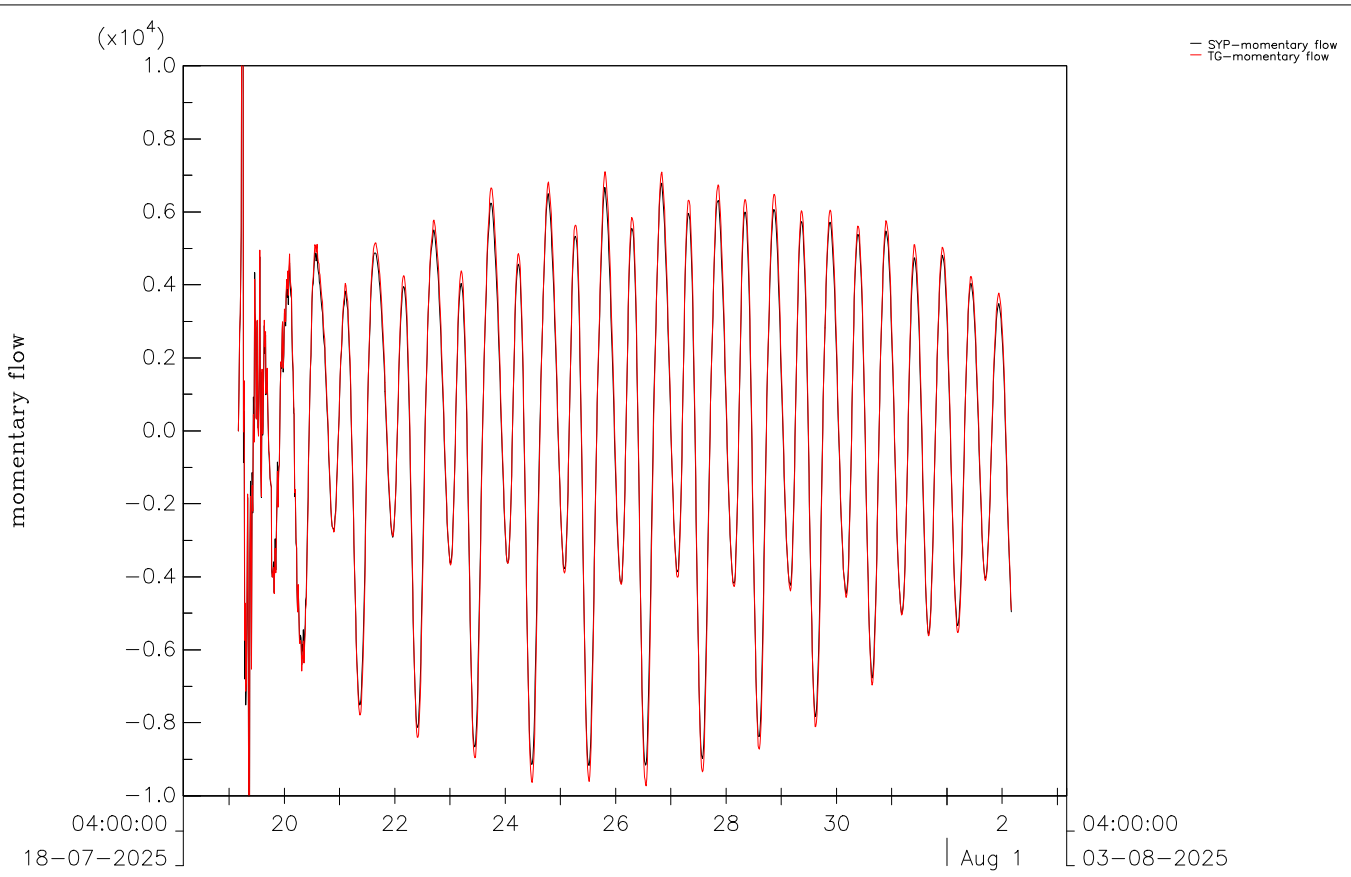


Upper: Momentum Flux; Lower: Accumulated Flux  
 Orange line: Towngas Model; Black line: Sai Ying Pun Model

Dry

Period 1

Mott MacDonald Hong Kong Ltd

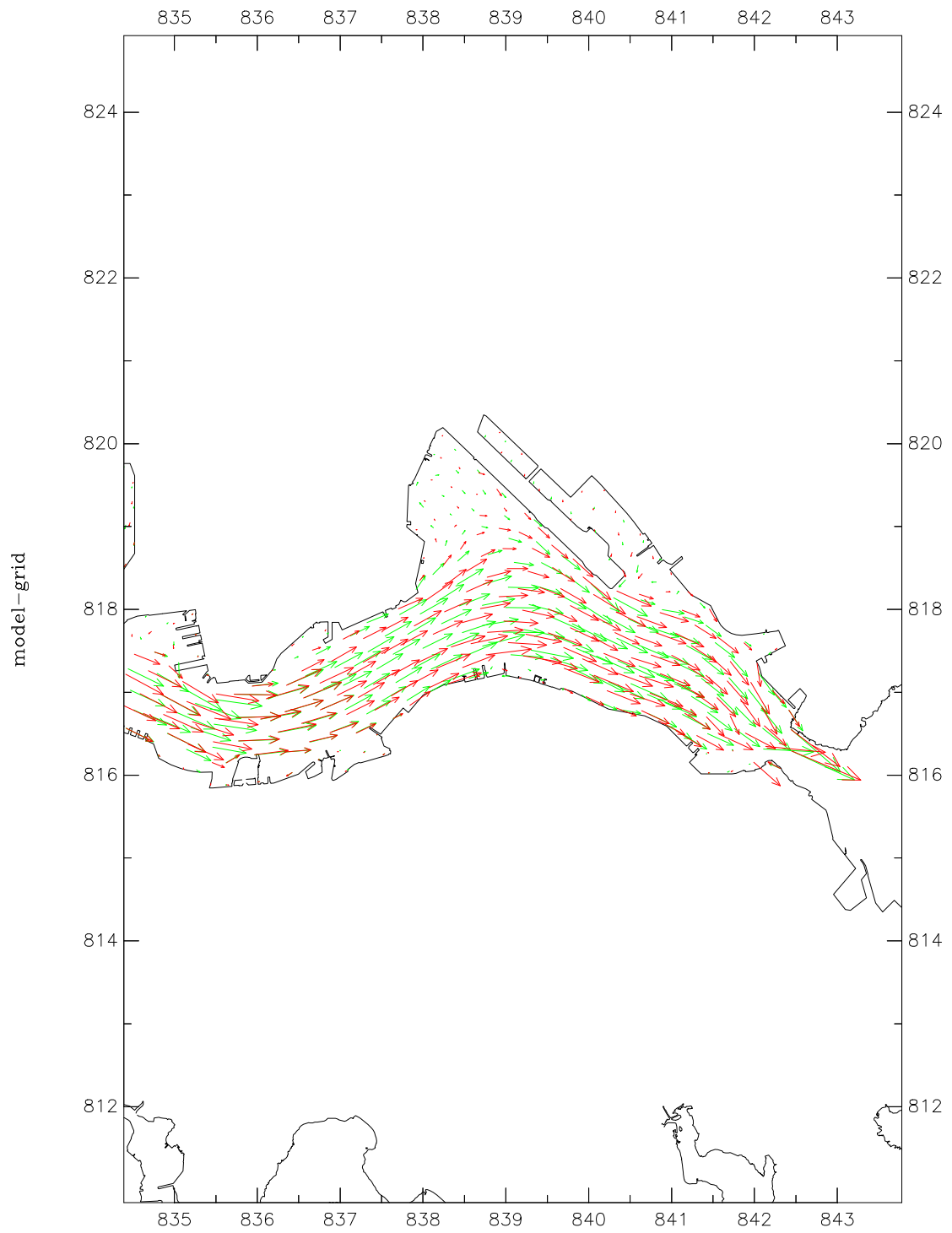


Upper: Momentum Flux; Lower: Accumulated Flux  
 Orange line: Towngas Model; Black line: Sai Ying Pun Model

Wet

Period 1

Mott MacDonald Hong Kong Ltd

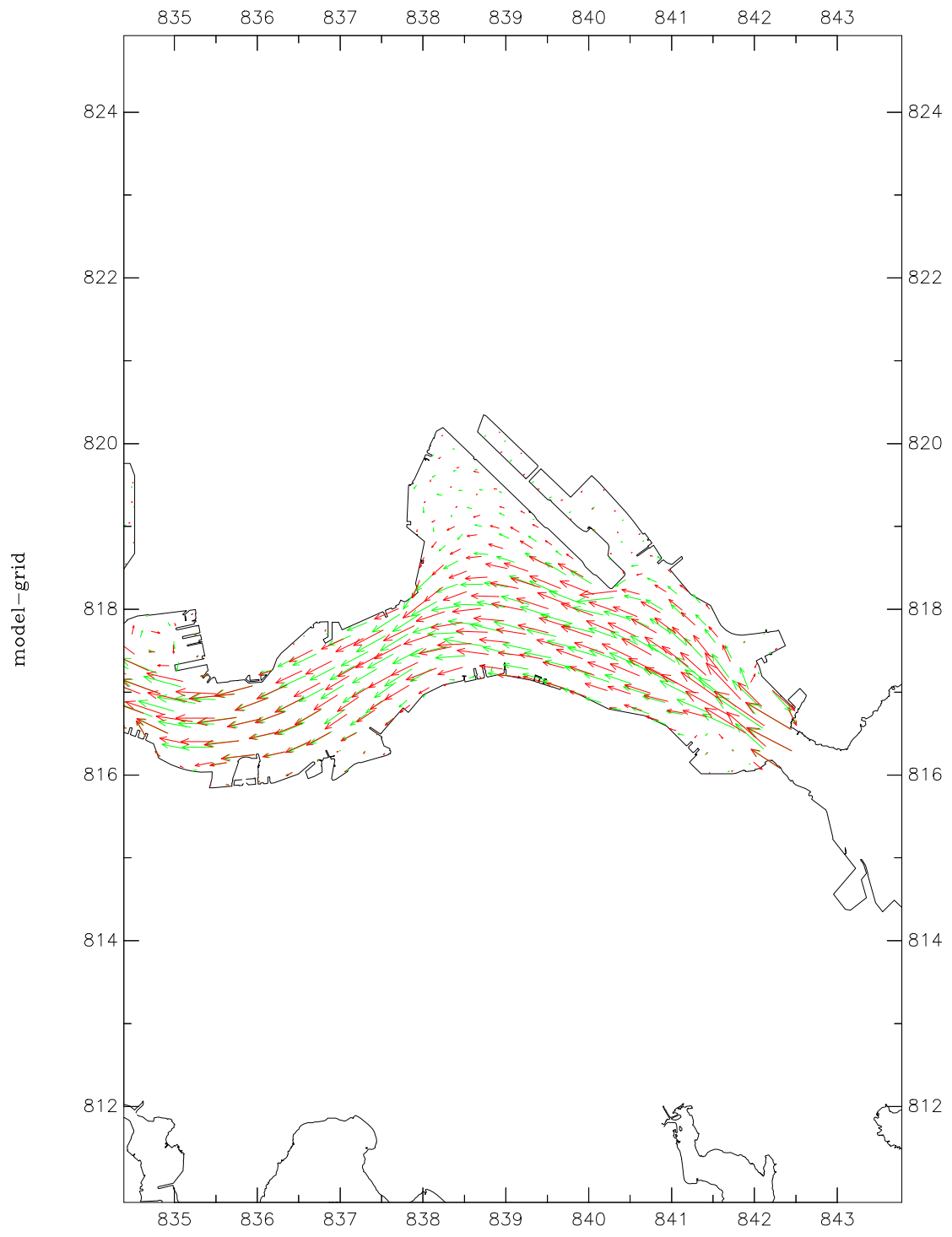


→ 0.500 m/s  
→ 0.500 m/s

Velocity Vector Plot (2025/02/12 00:00:00 : mid-ebb)  
 Orange line: Towngas Model; Green line: Sai Ying Pun Model

Dry	Period 1
Surface Layer	

Mott MacDonald Hong Kong Ltd

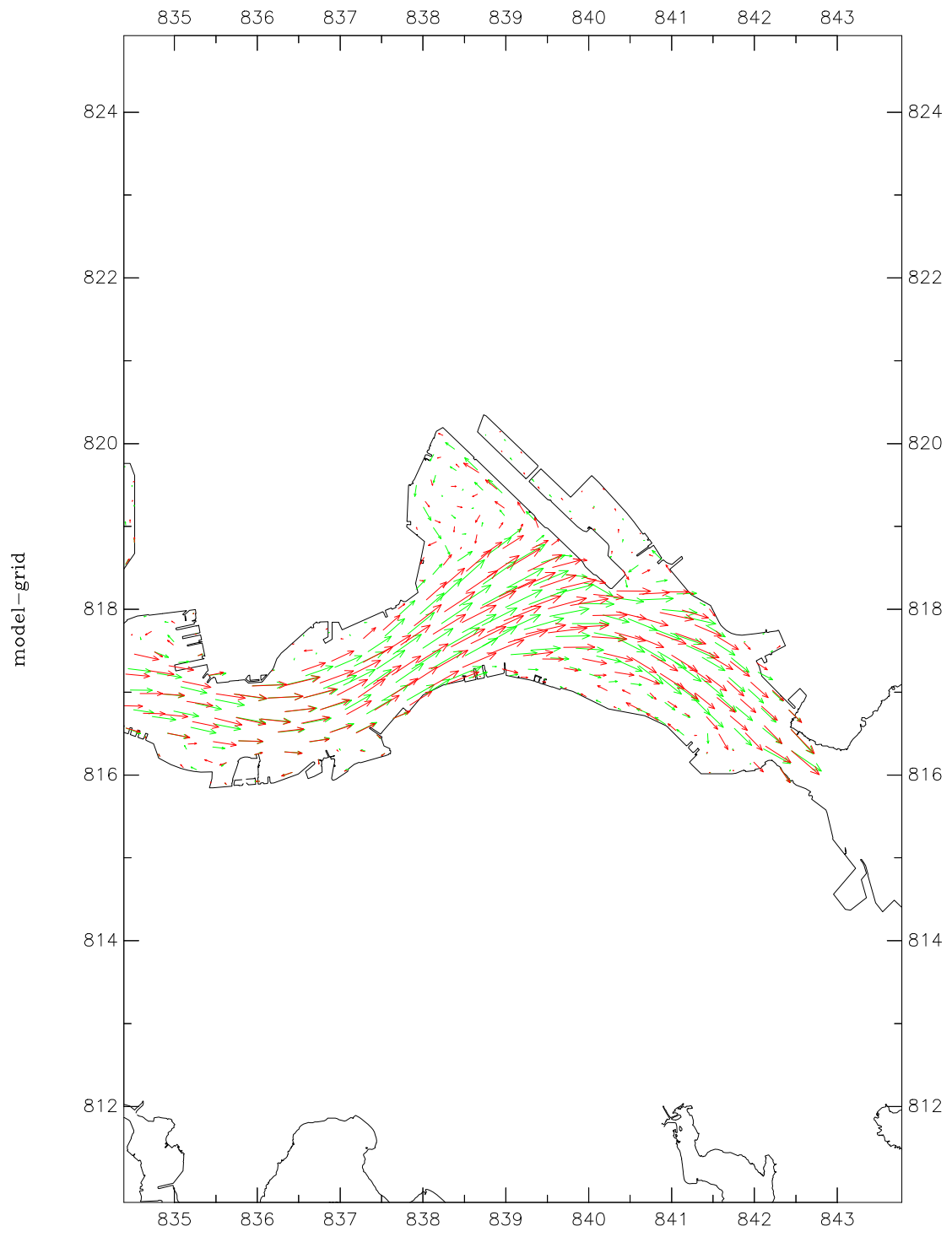


→ 0.500 m/s  
→ 0.500 m/s

Velocity Vector Plot (2025/02/12 18:00:00 : mid-flood)  
 Orange line: Towngas Model; Green line: Sai Ying Pun Model

Dry	Period 1
Surface Layer	

Mott MacDonald Hong Kong Ltd



→ 1.000 m/s  
→ 1.000 m/s

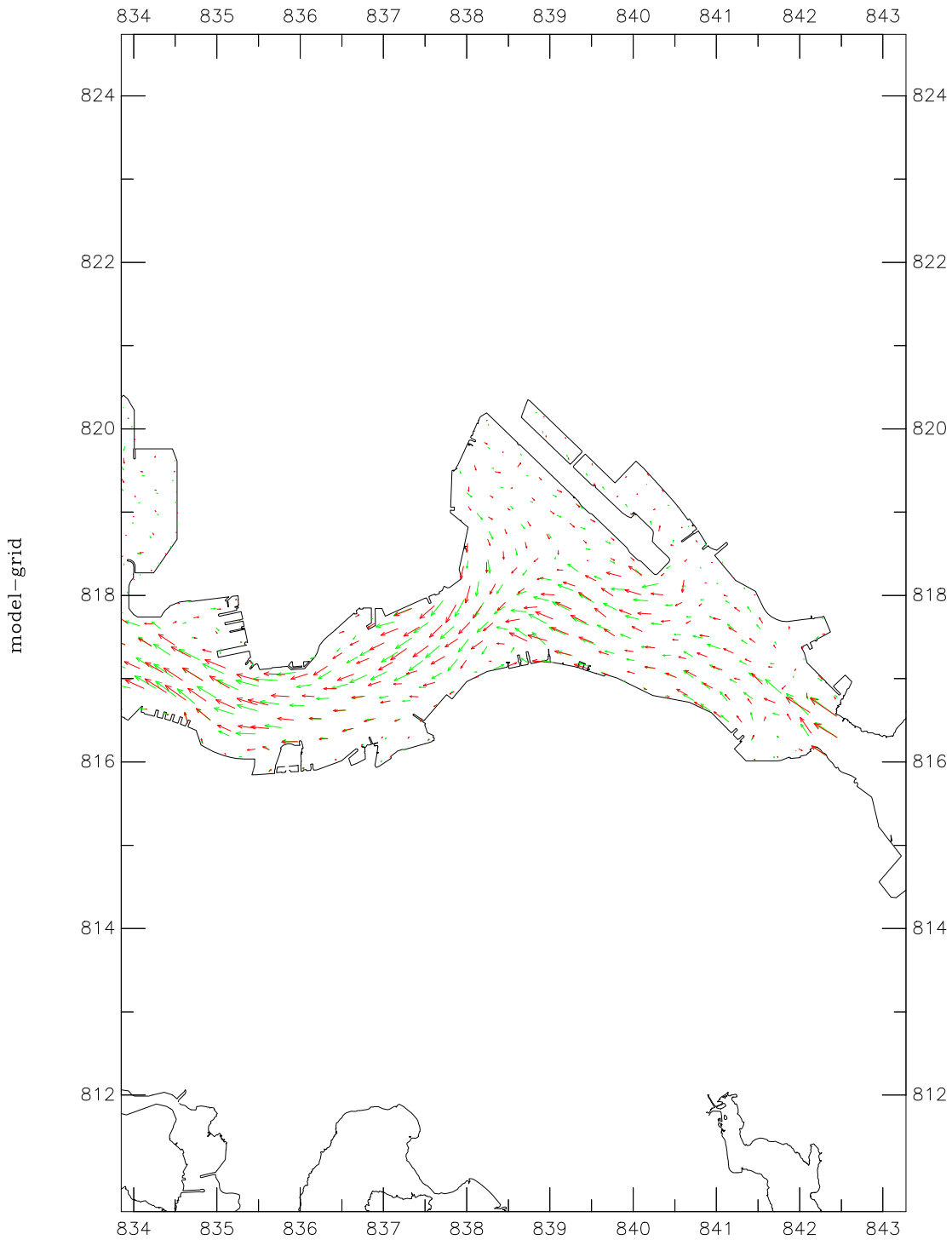
Velocity Vector Plot (2025/07/25 12:00:00 : mid-ebb)  
 Orange line: Towngas Model; Green line: Sai Ying Pun Model

Wet      Period 1

Surface Layer

Mott MacDonald Hong Kong Ltd





→ 1.000 m/s  
→ 1.000 m/s

Velocity Vector Plot (2025/07/25 19:00:00 : mid-flood)  
 Orange line: Towngas Model; Green line: Sai Ying Pun Model

Wet

Period 1

Surface Layer

Mott MacDonald Hong Kong Ltd