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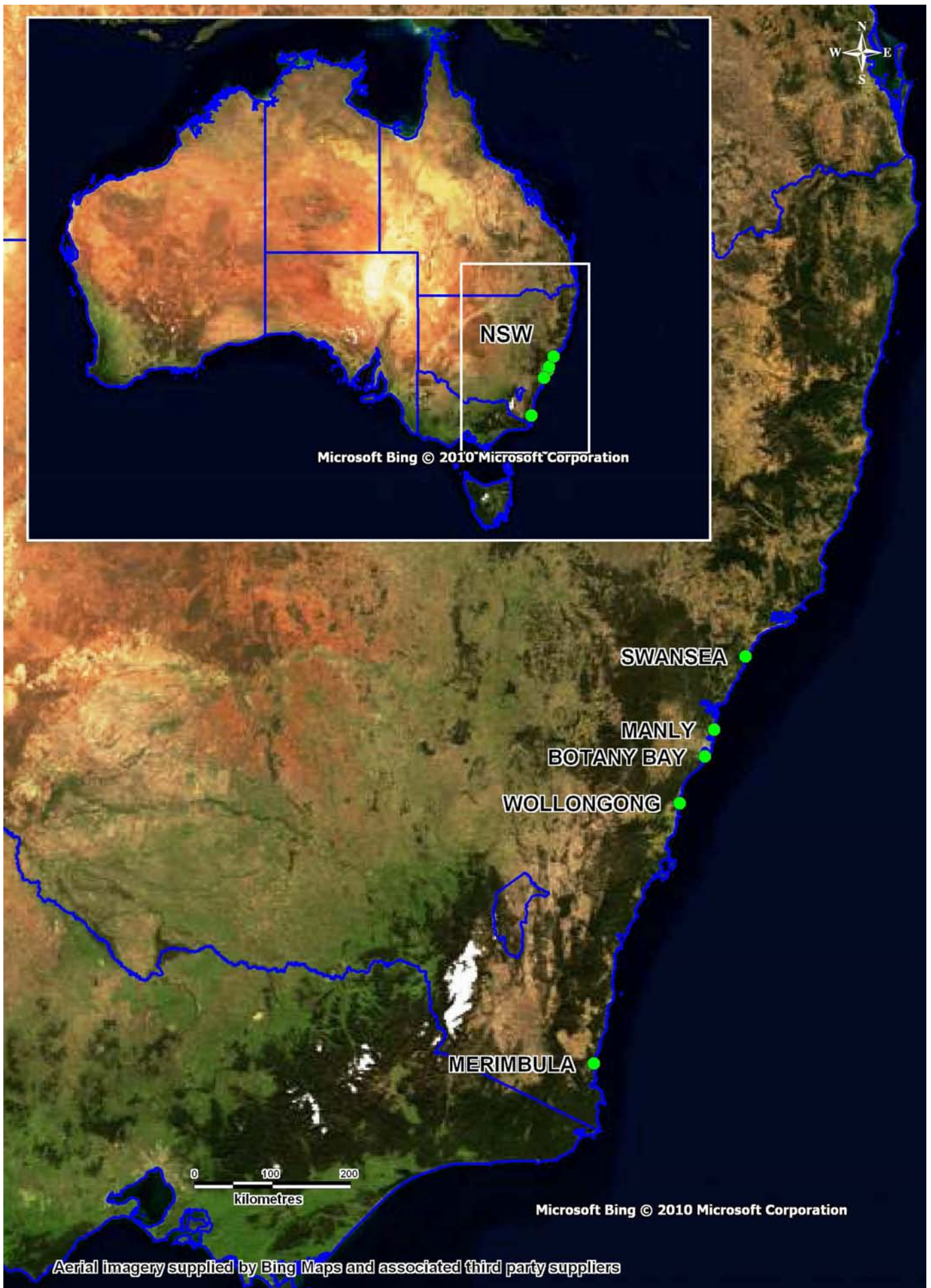
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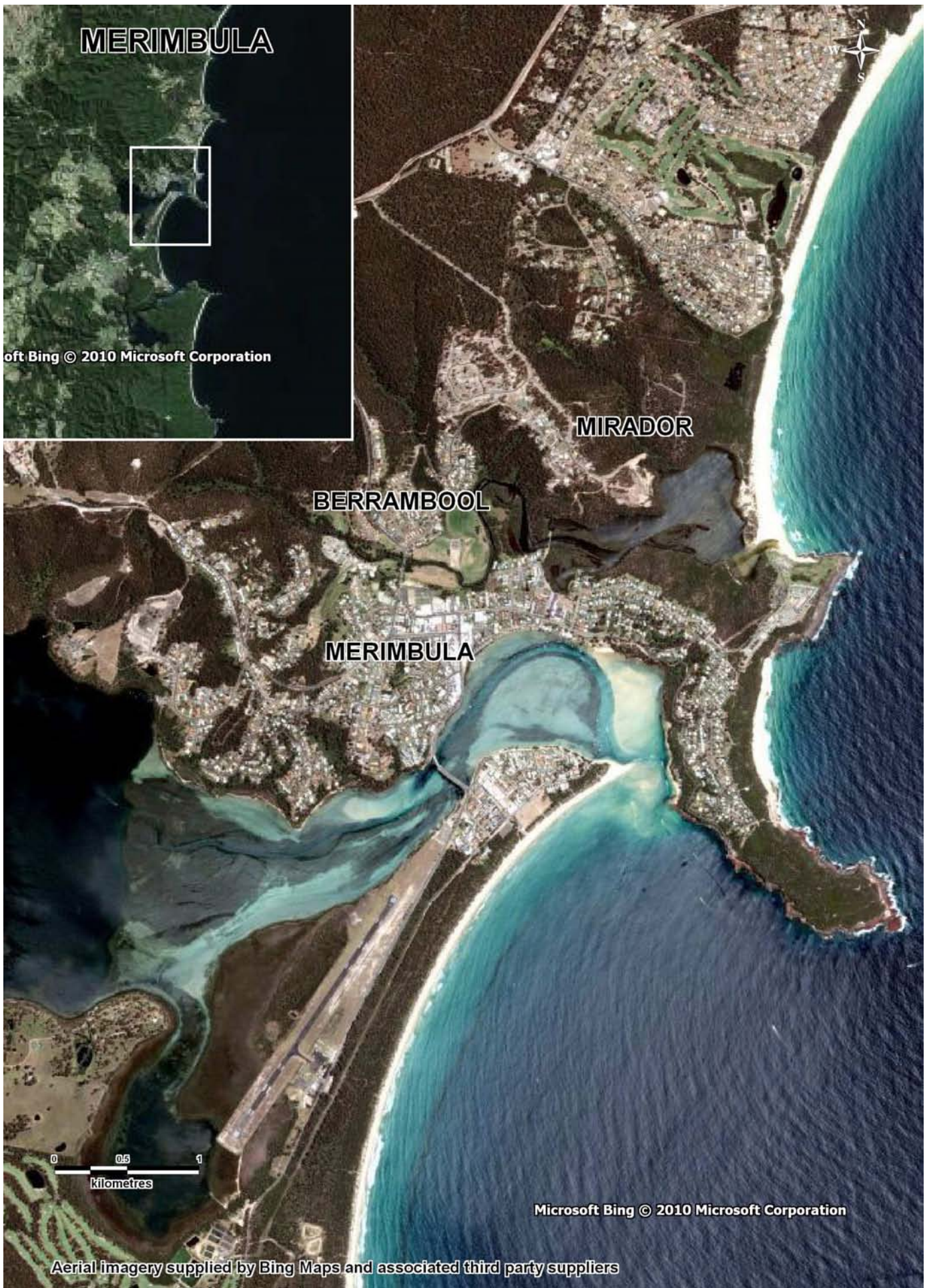




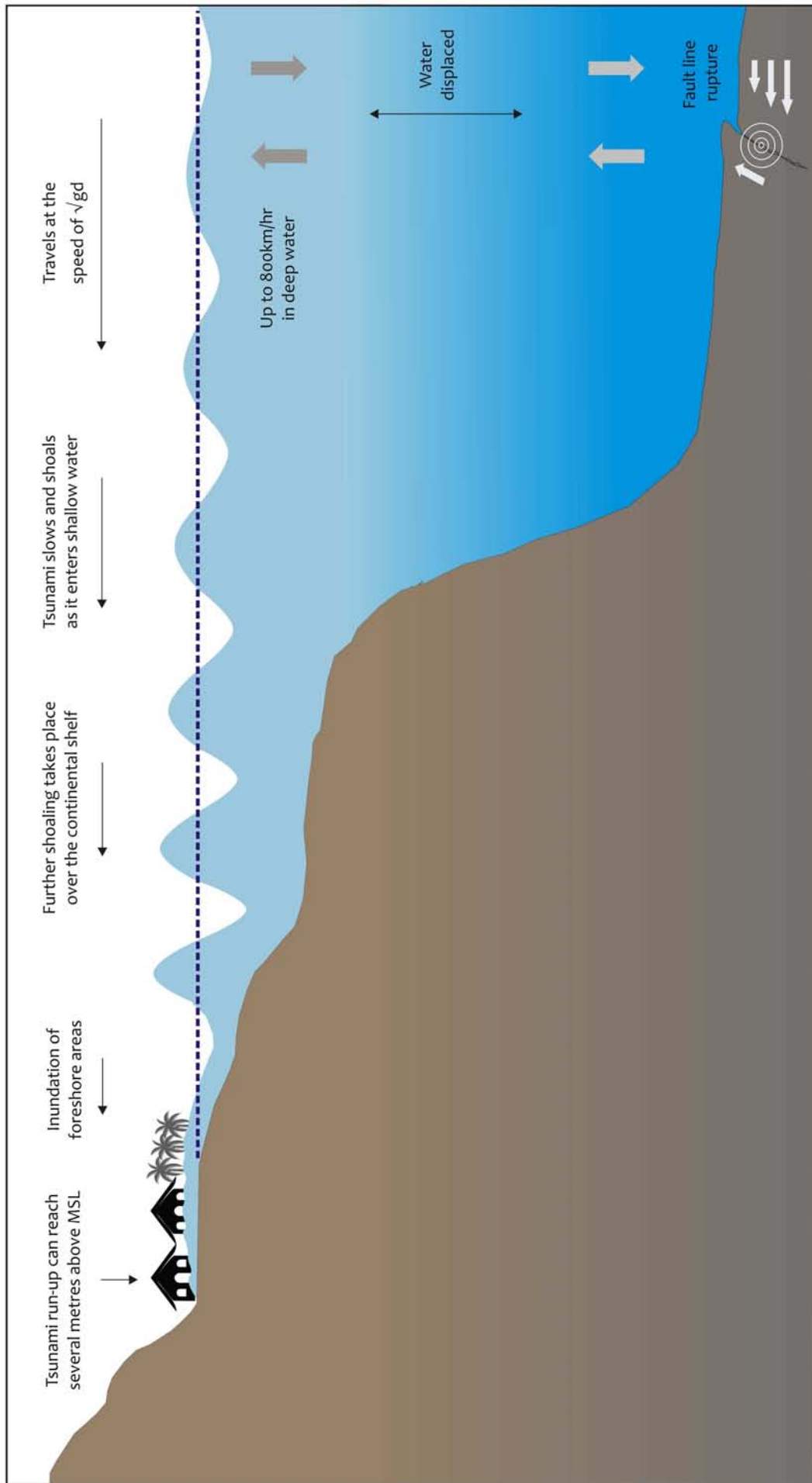


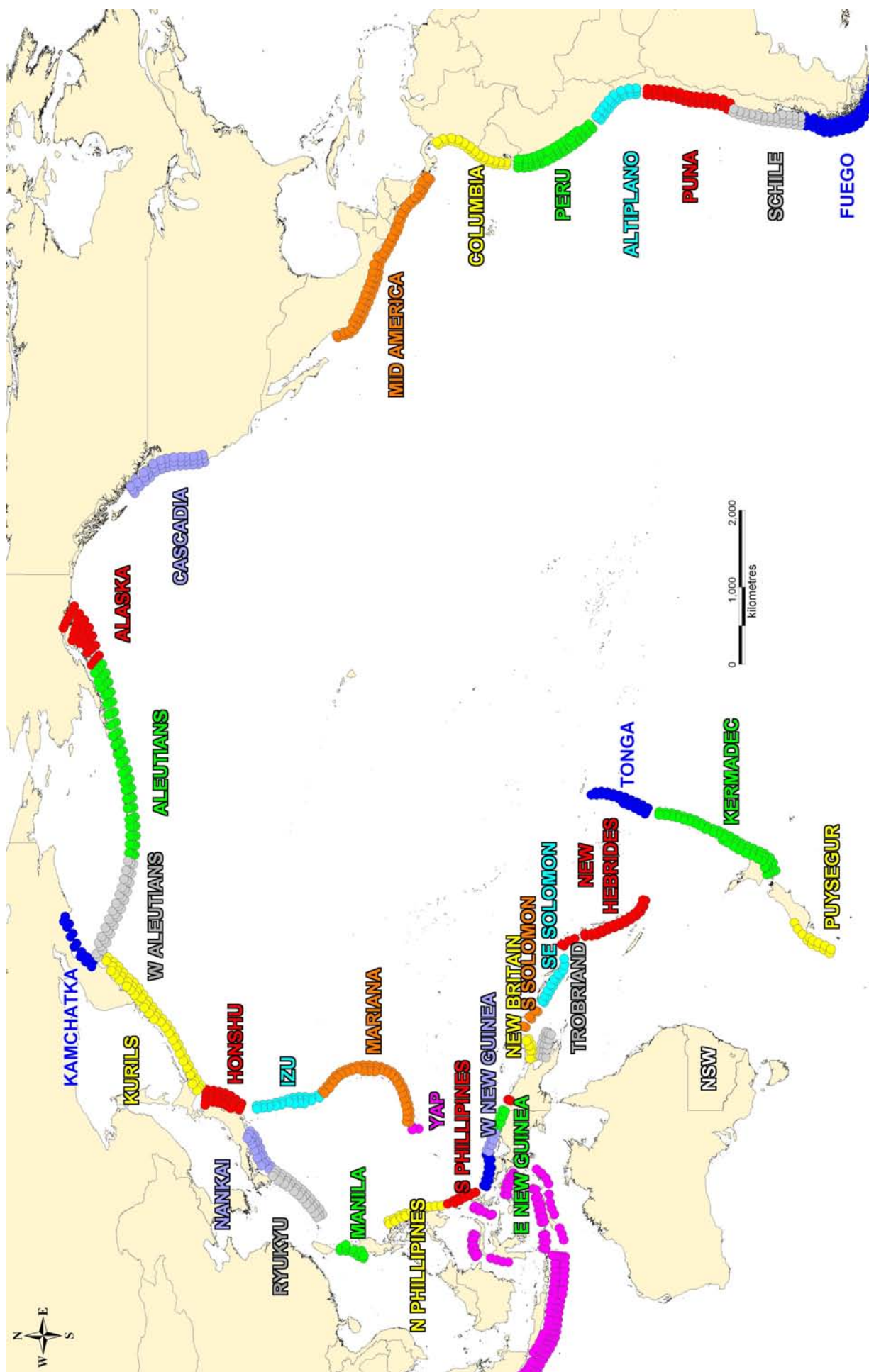














Mouse position  
Lon/Lat: 178.421 / -18.162

Hazard point  
Lon/Lat: 151.417 / -33.800

Offshore hazard  
Scenario Name: MAINLY  
Return Period: 500 years  
Wave Height: 0.55 ± 0.05 m

Area of interest

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Import file

Clear area

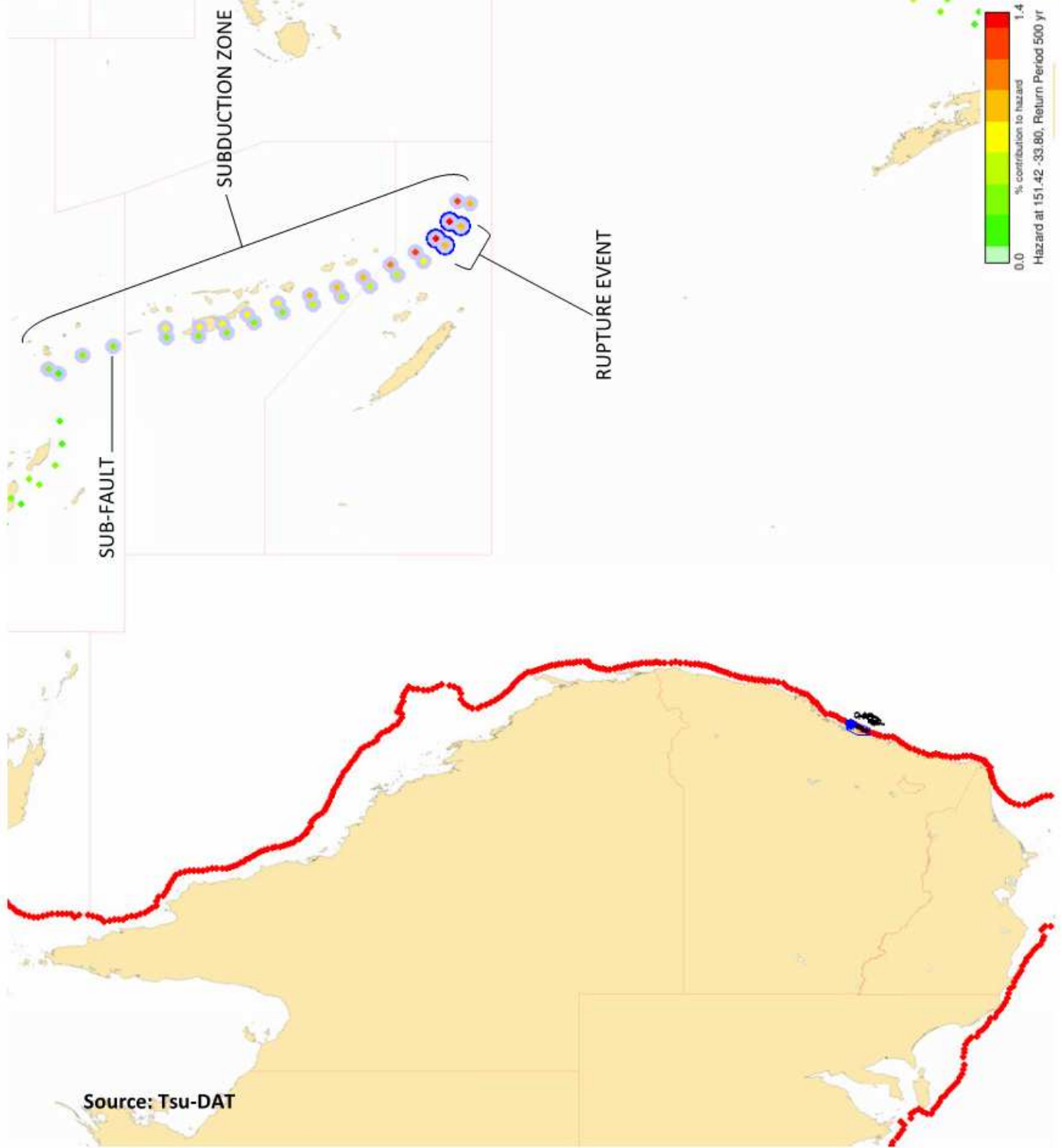
Order boundary points

Zone & events

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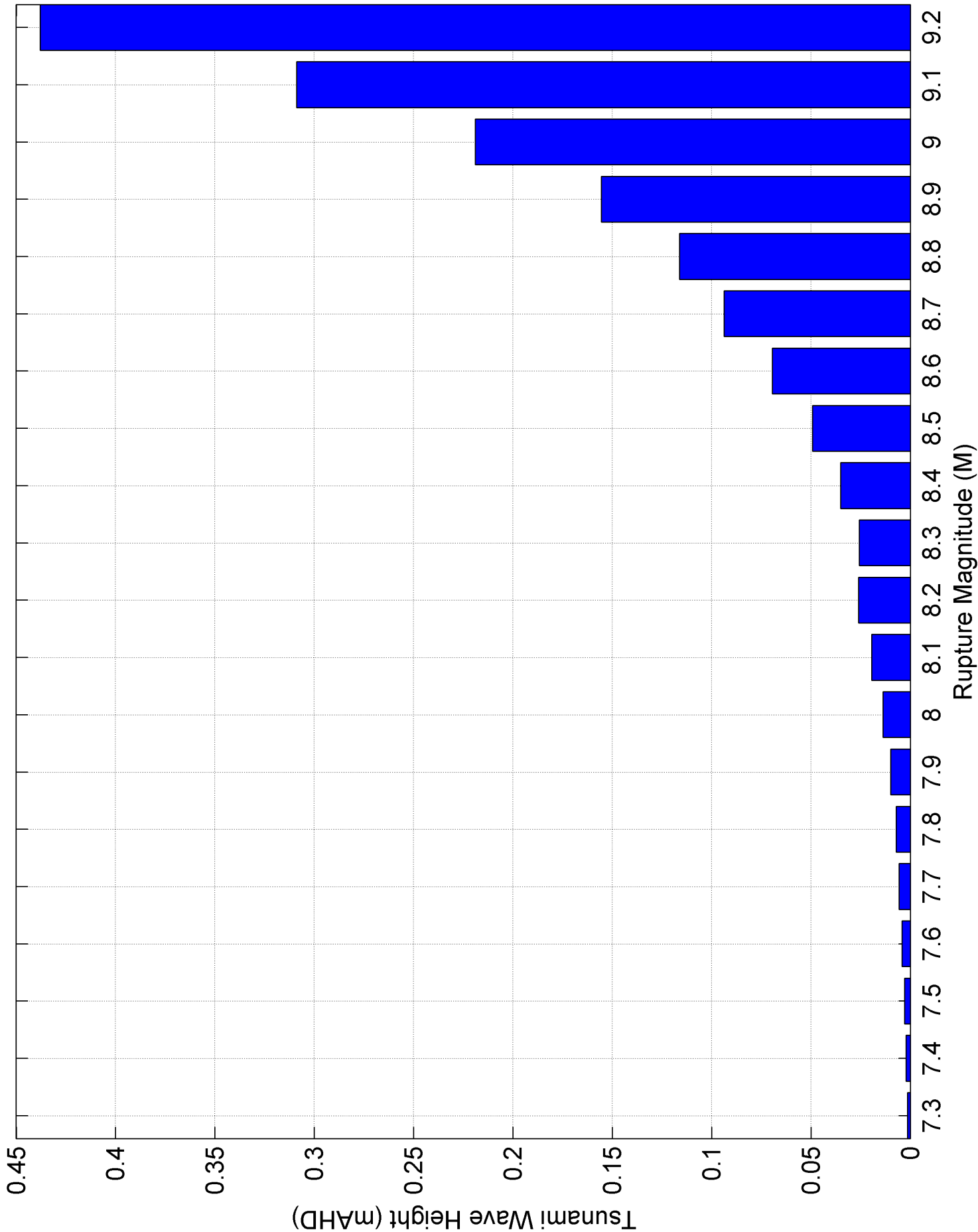
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49670	2.9e-006	0.50	8.5	11.000
49751	2.3e-006	0.52	8.6	13.000
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49789	5.6e-006	0.52	8.6	6.004

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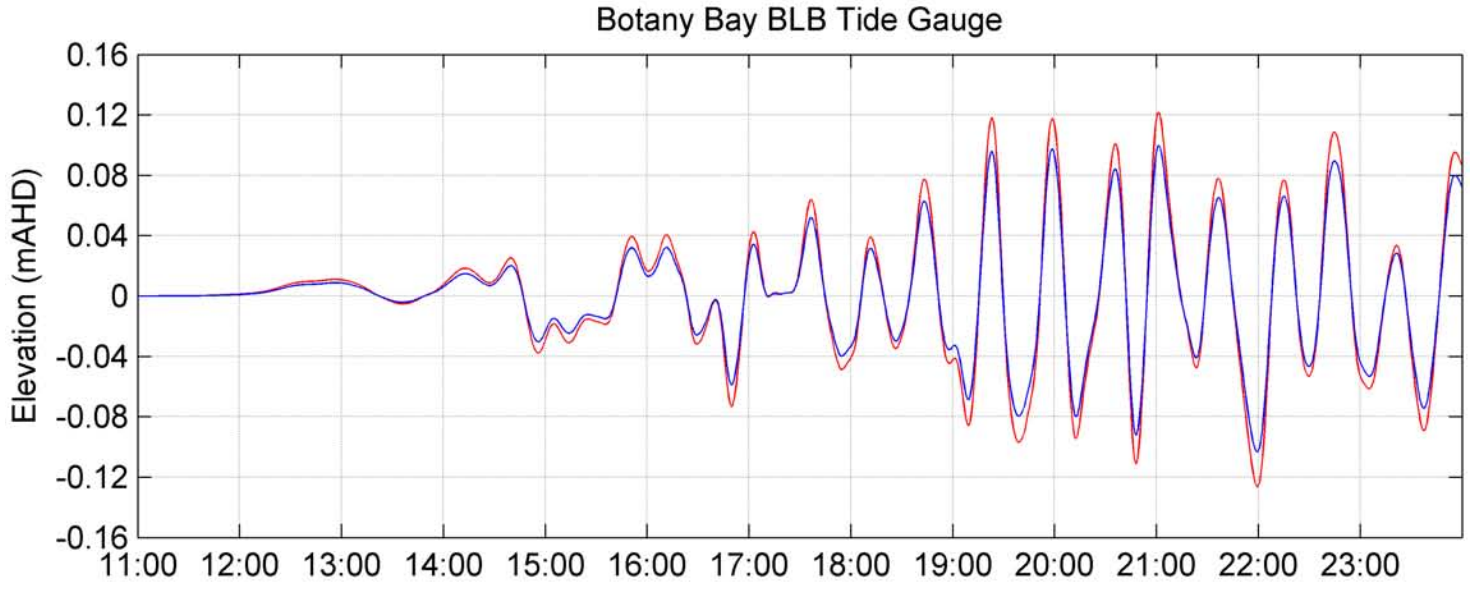
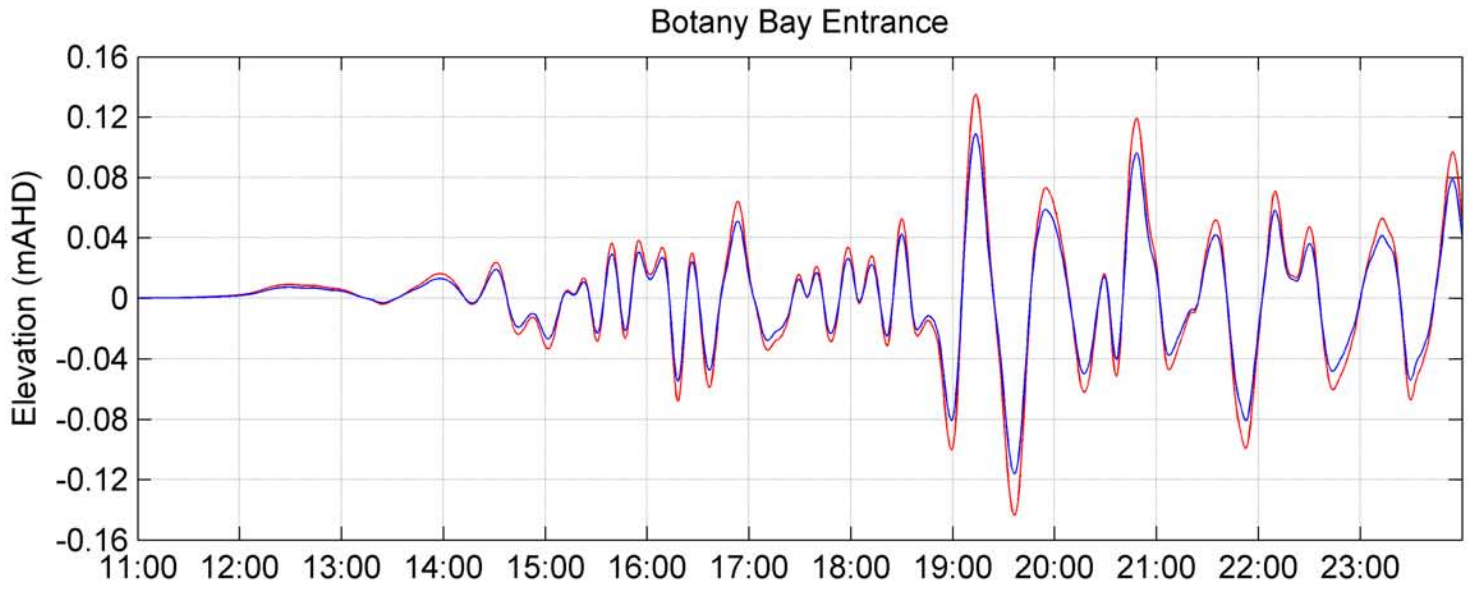
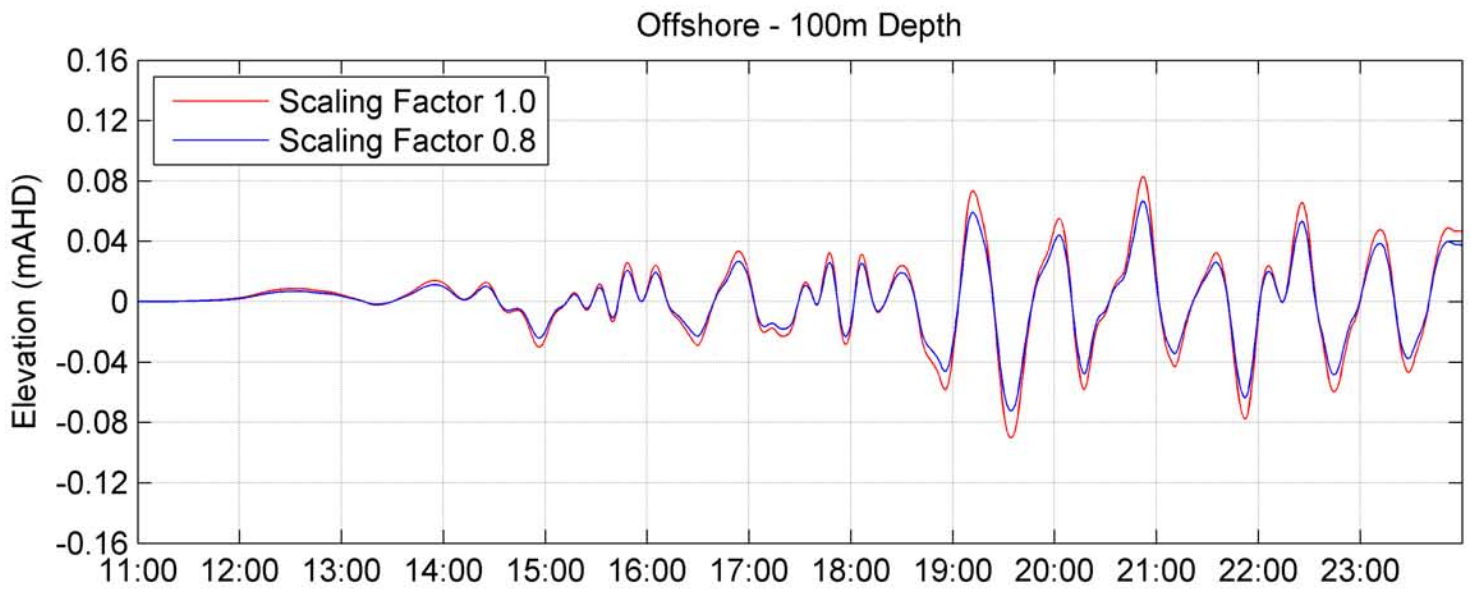




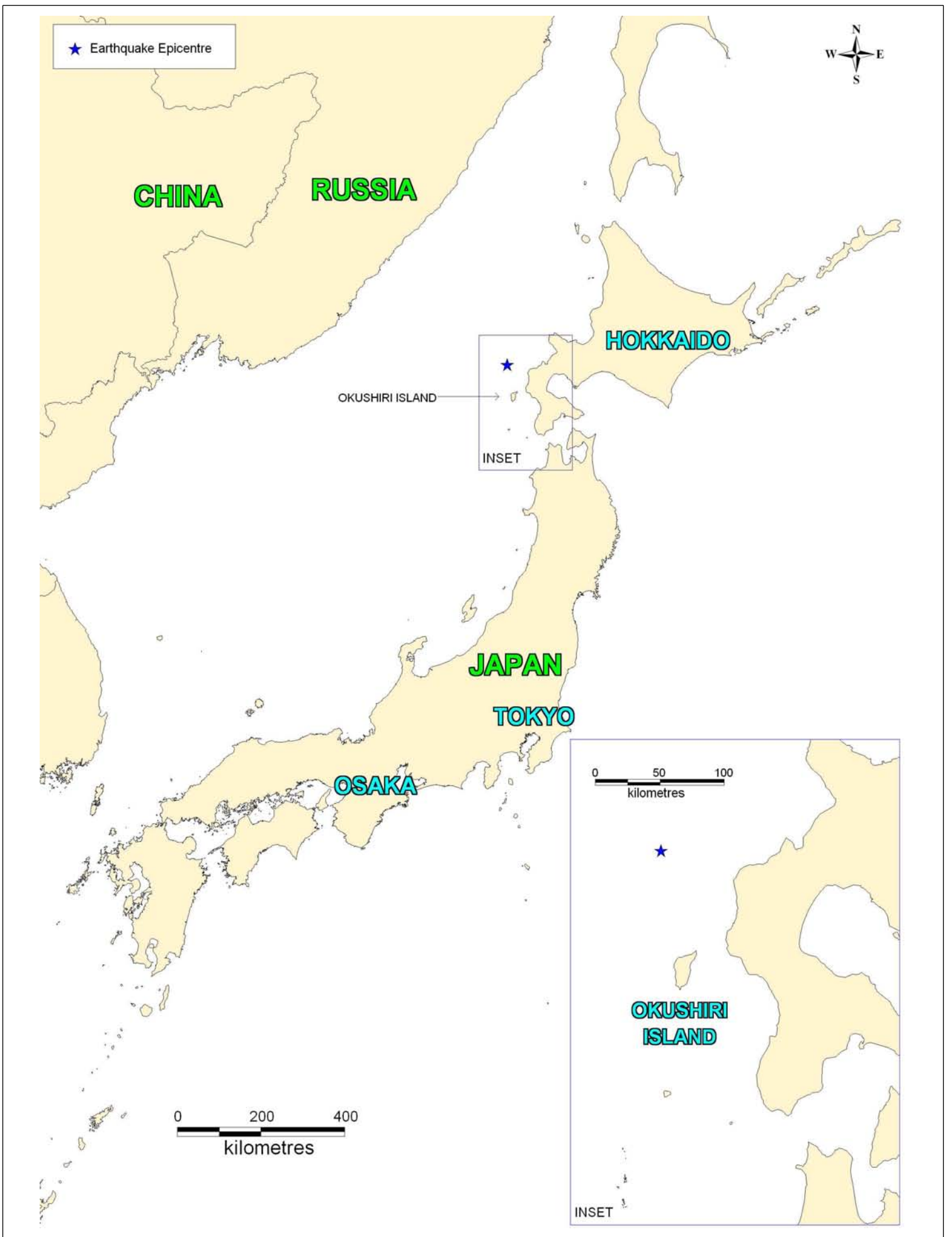


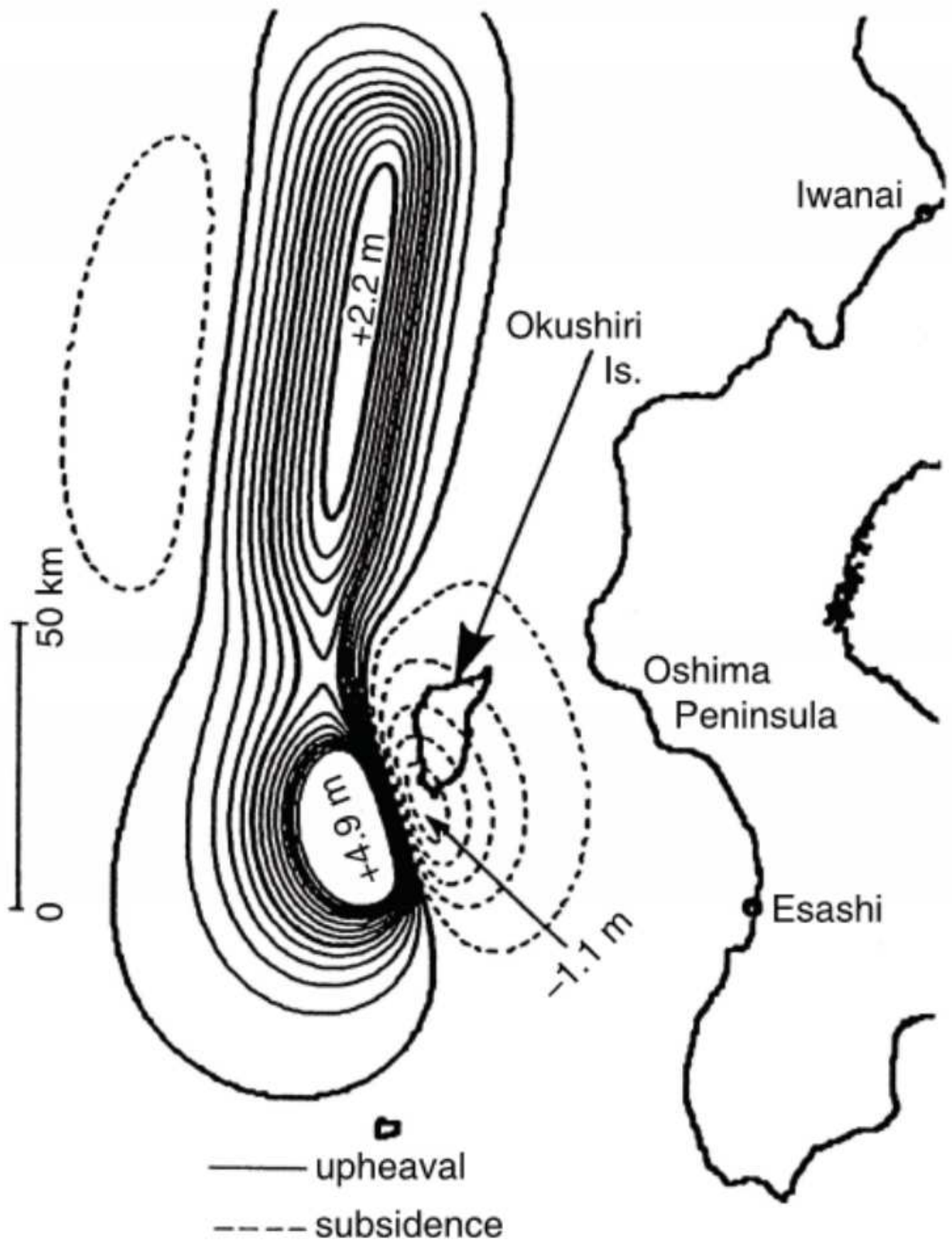
NSW Tsunami Inundation Modelling and Risk Assessment  
 T2 TSUNAMI WAVE HEIGHT OFFSHORE OF MERIMBULA  
 T2 RUPTURE ELEMENT 246 (TONGA SUBDUCTION ZONE)







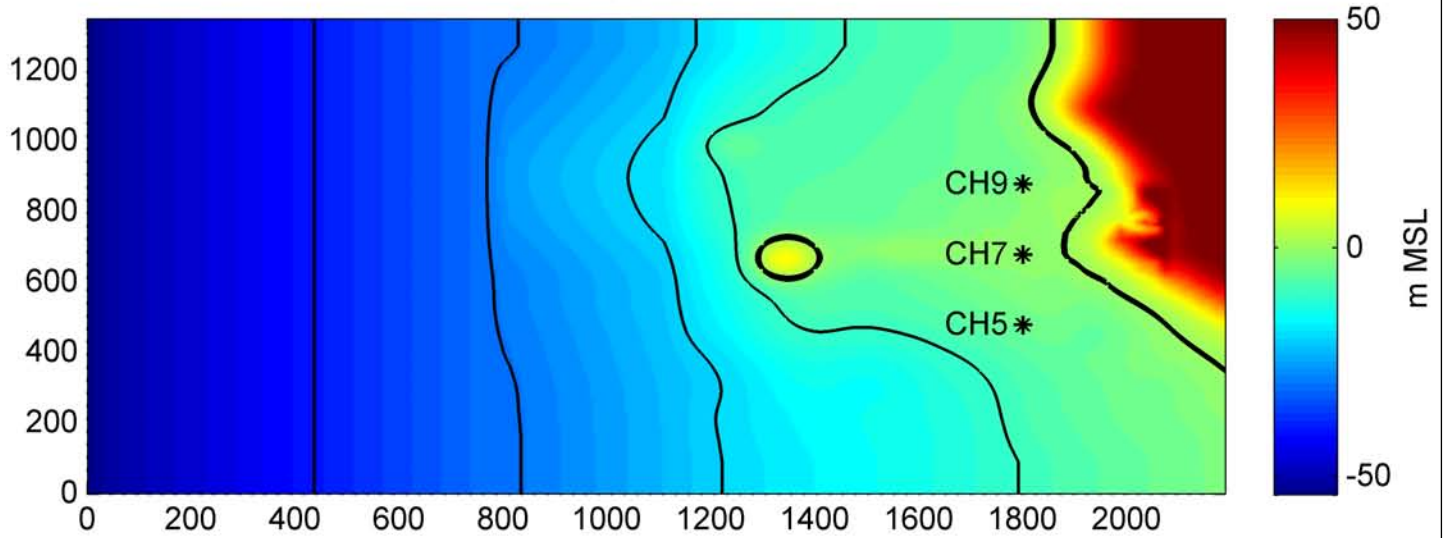




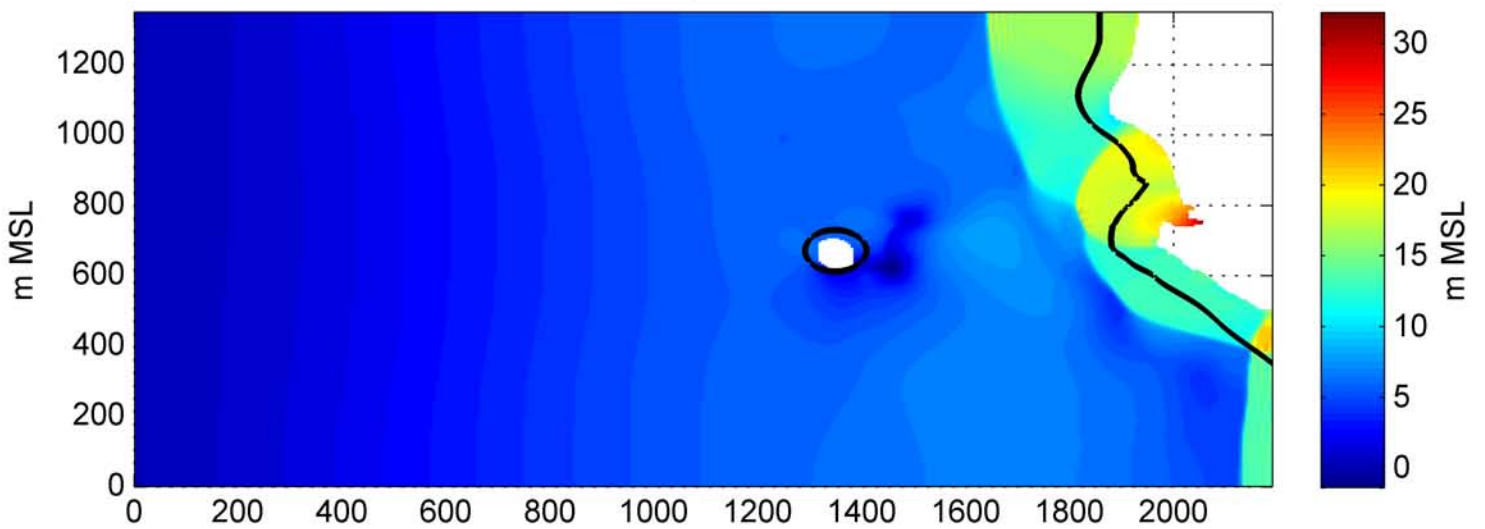
Source: Synolakis et al (2007)



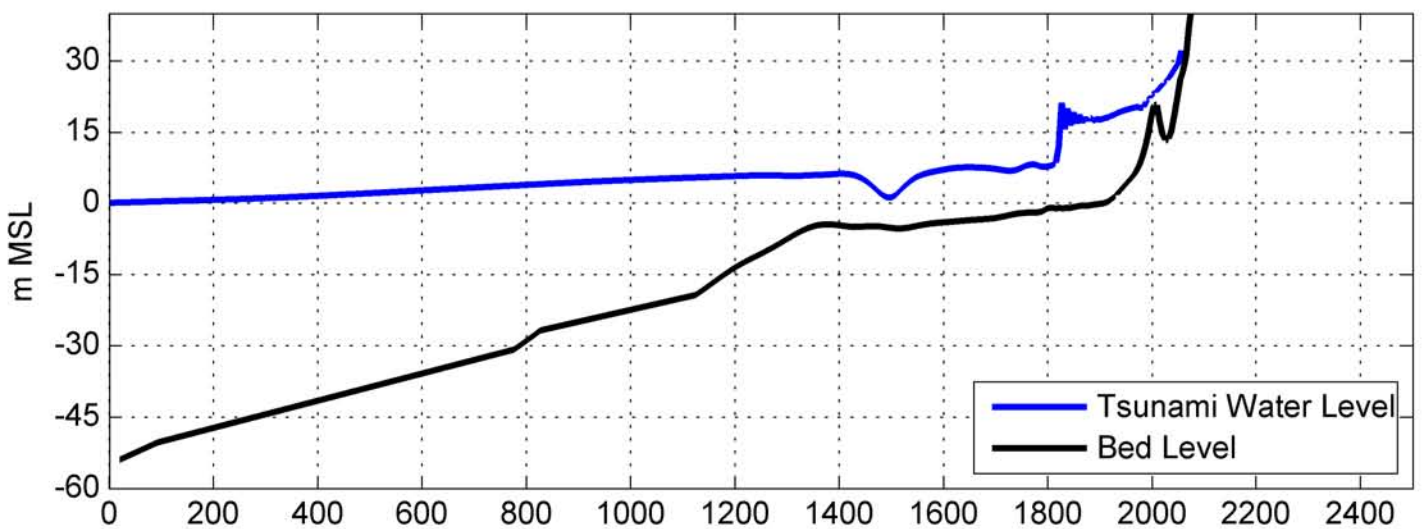
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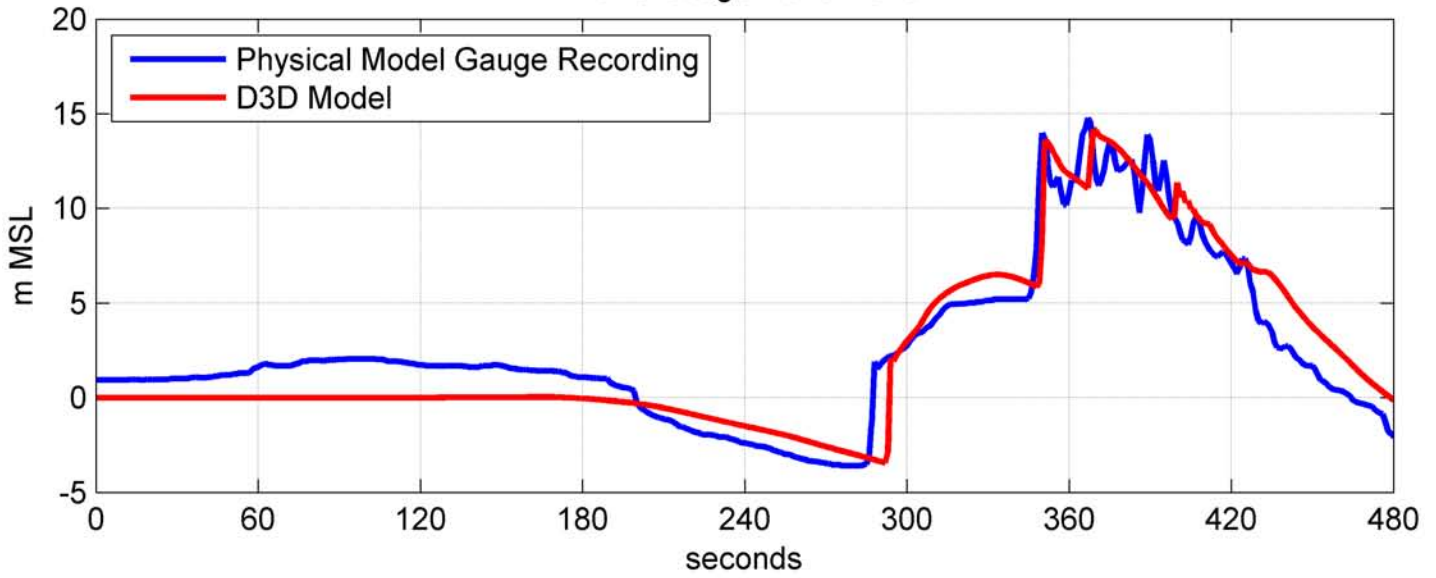
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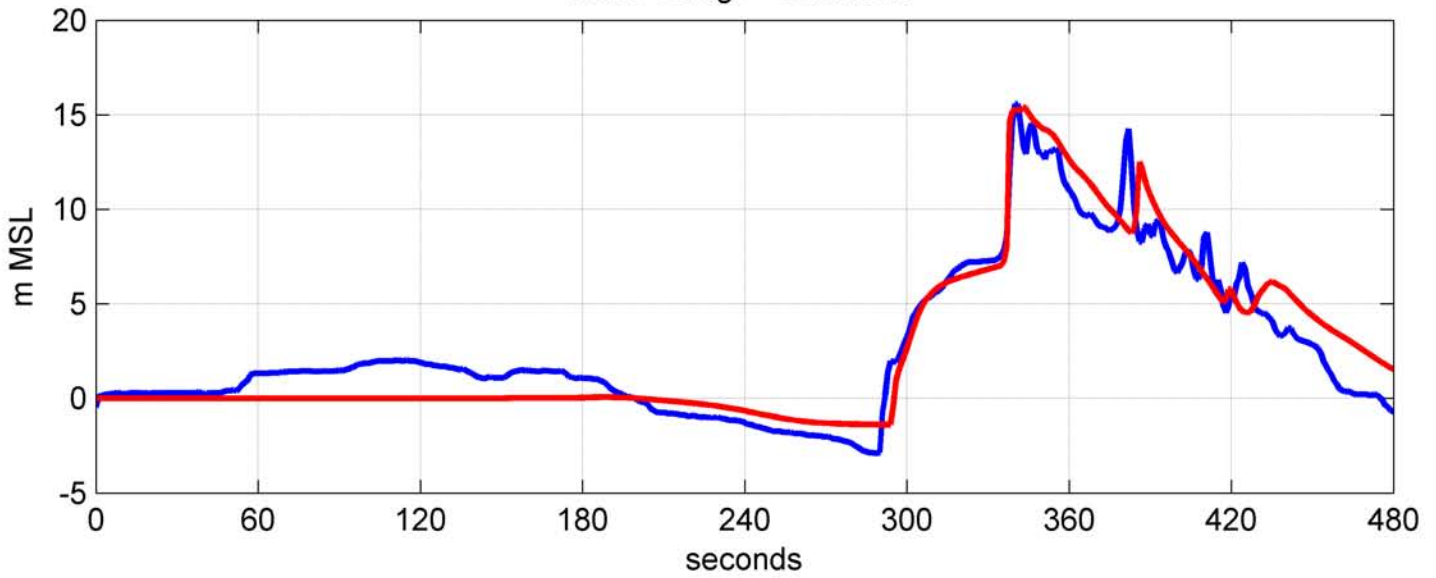
Maximum Runup Profile



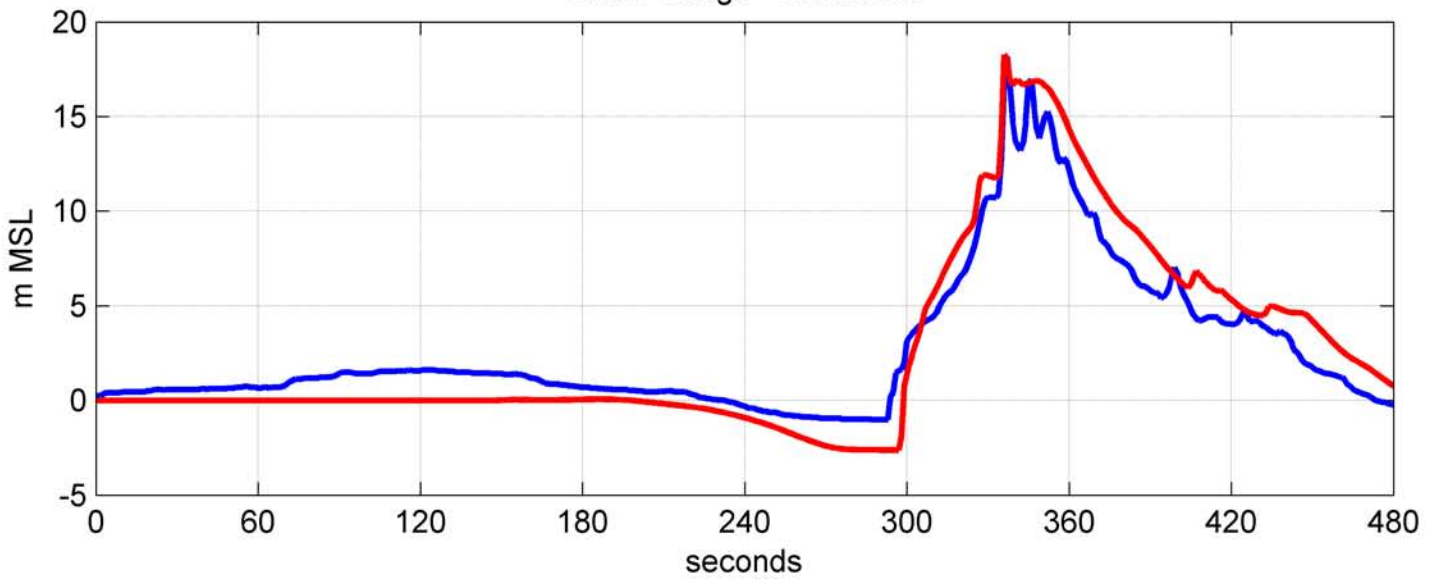
Wave Gauge - Channel 5



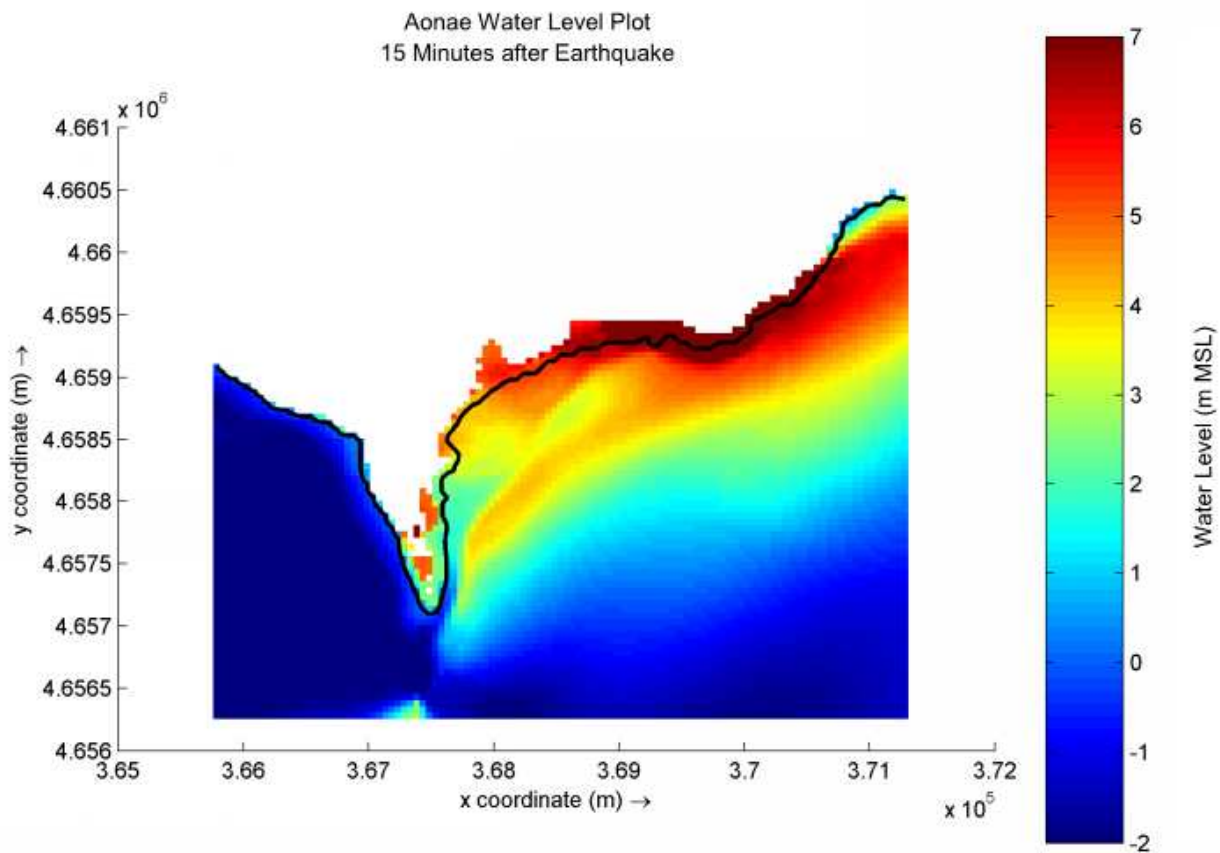
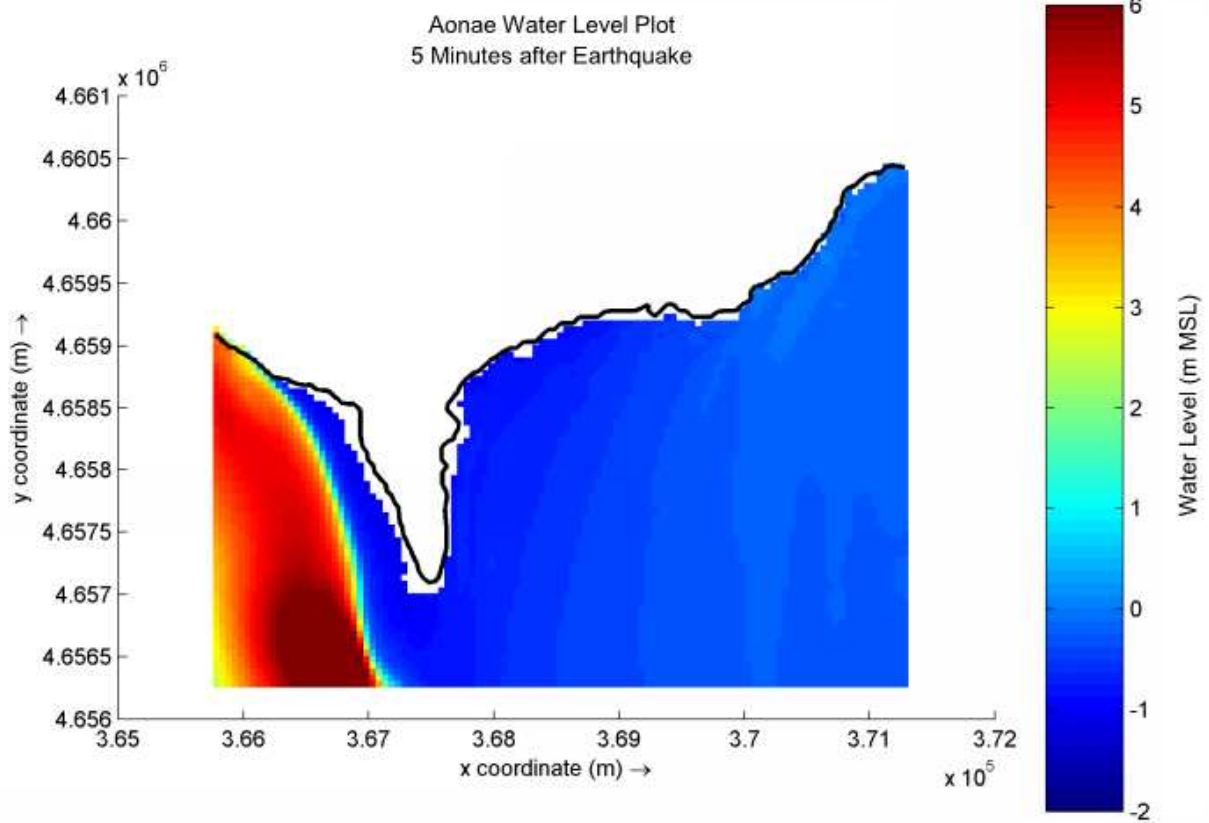
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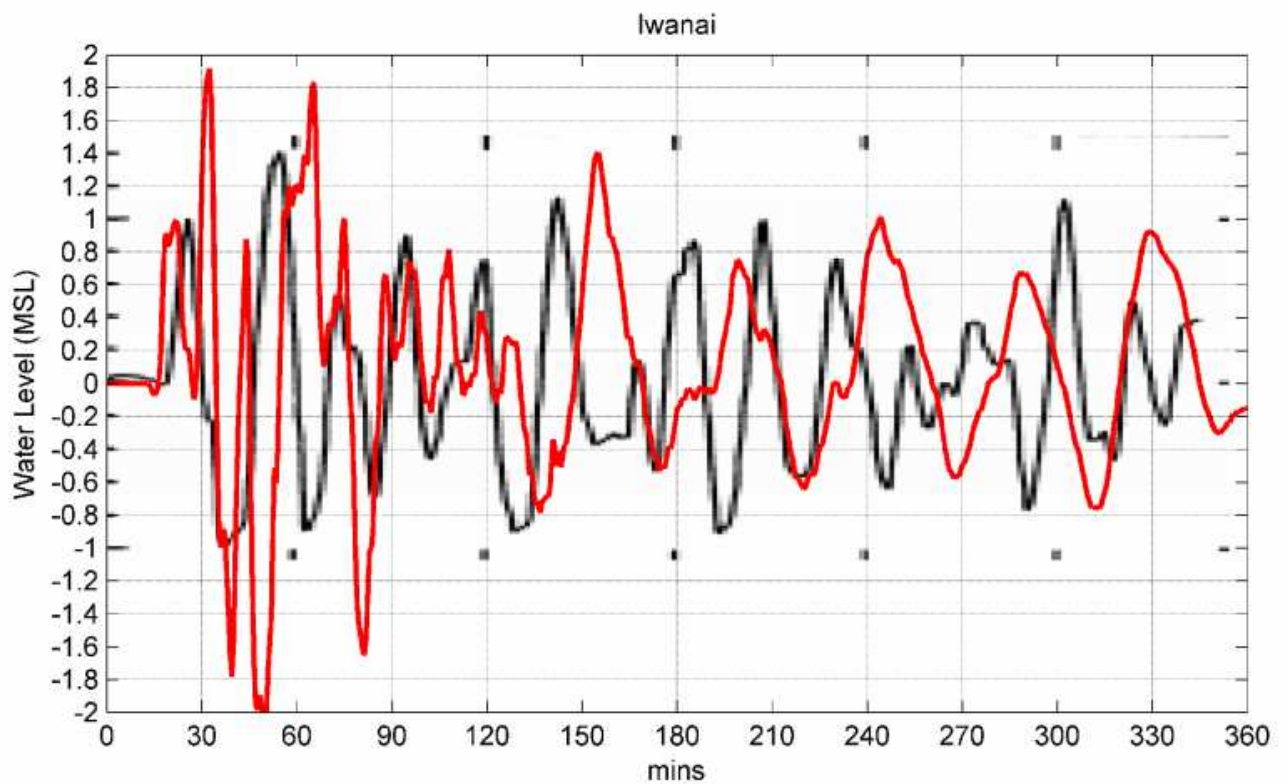
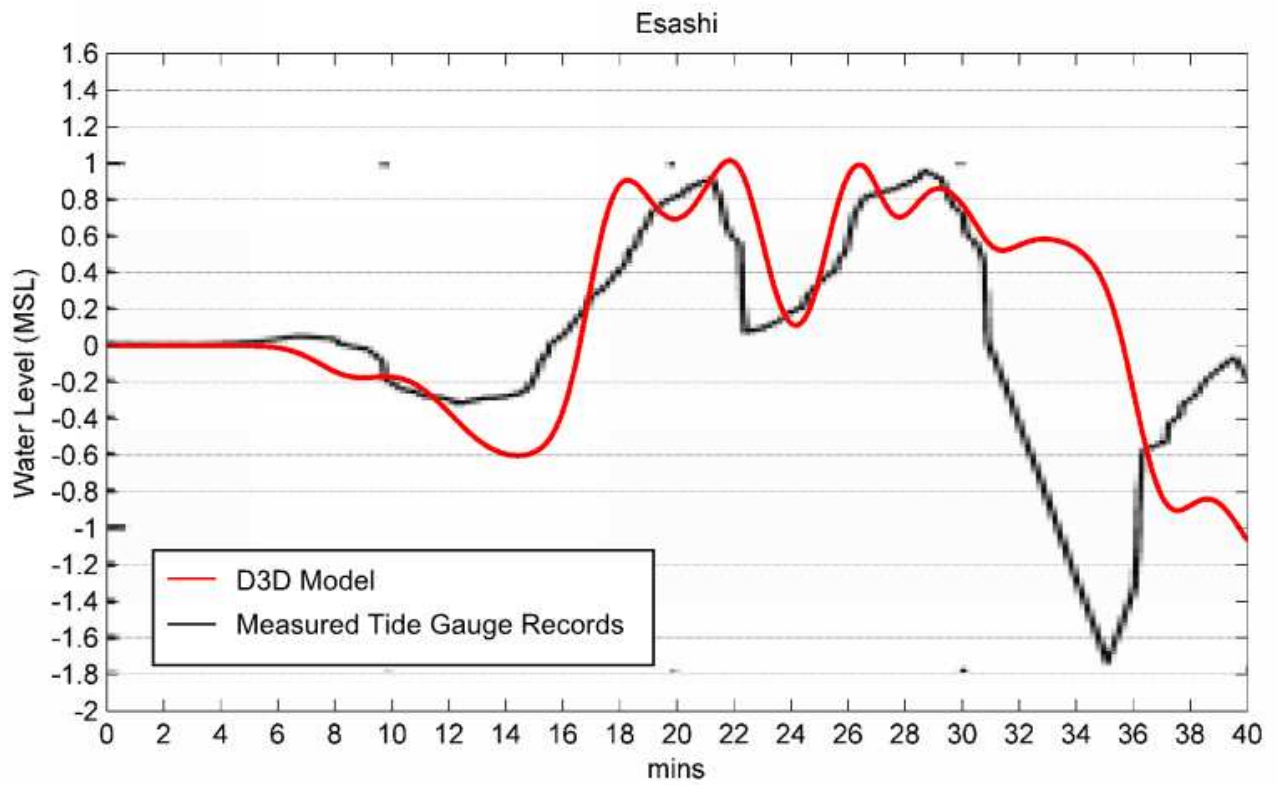


Wave Gauge - Channel 9





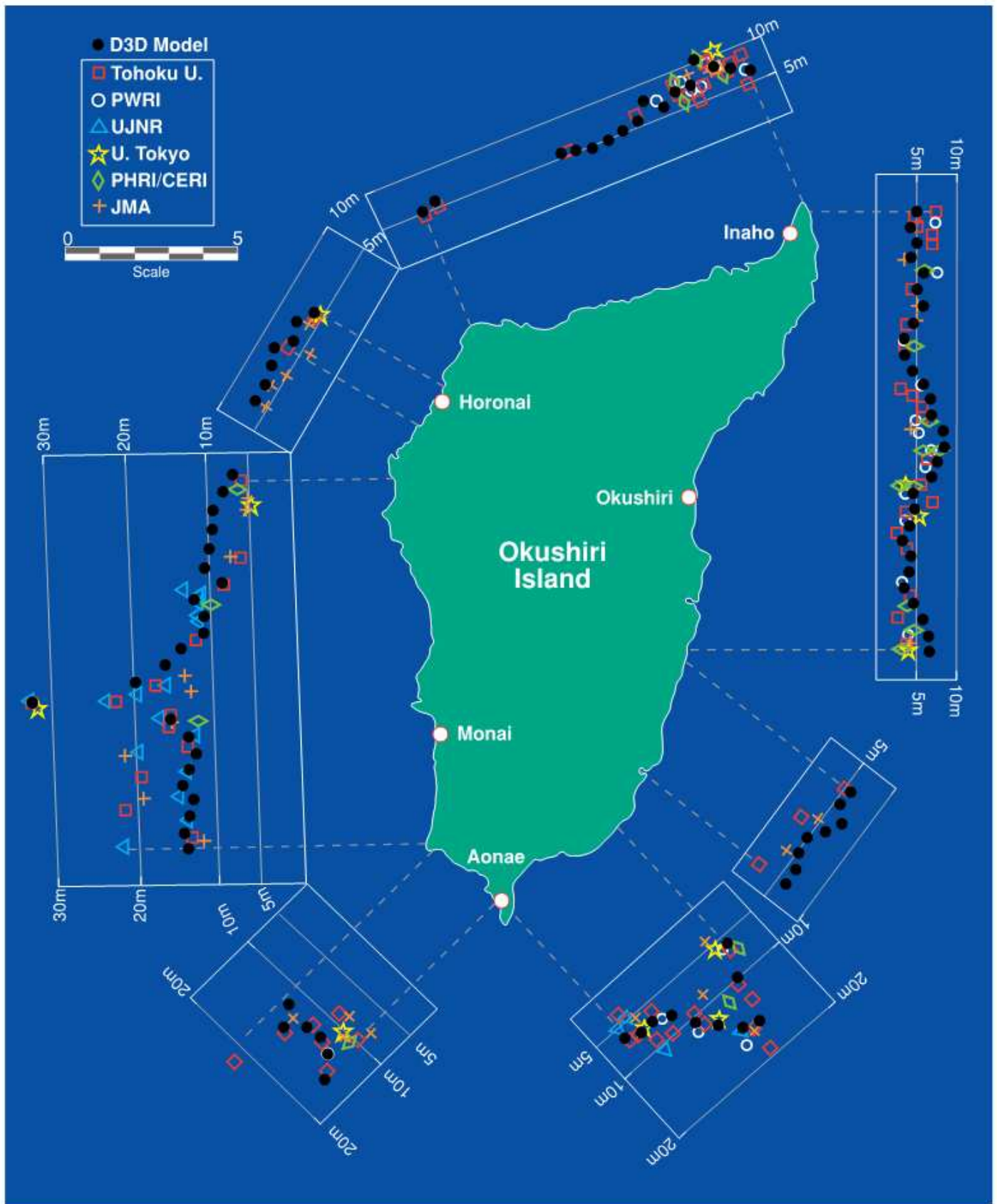




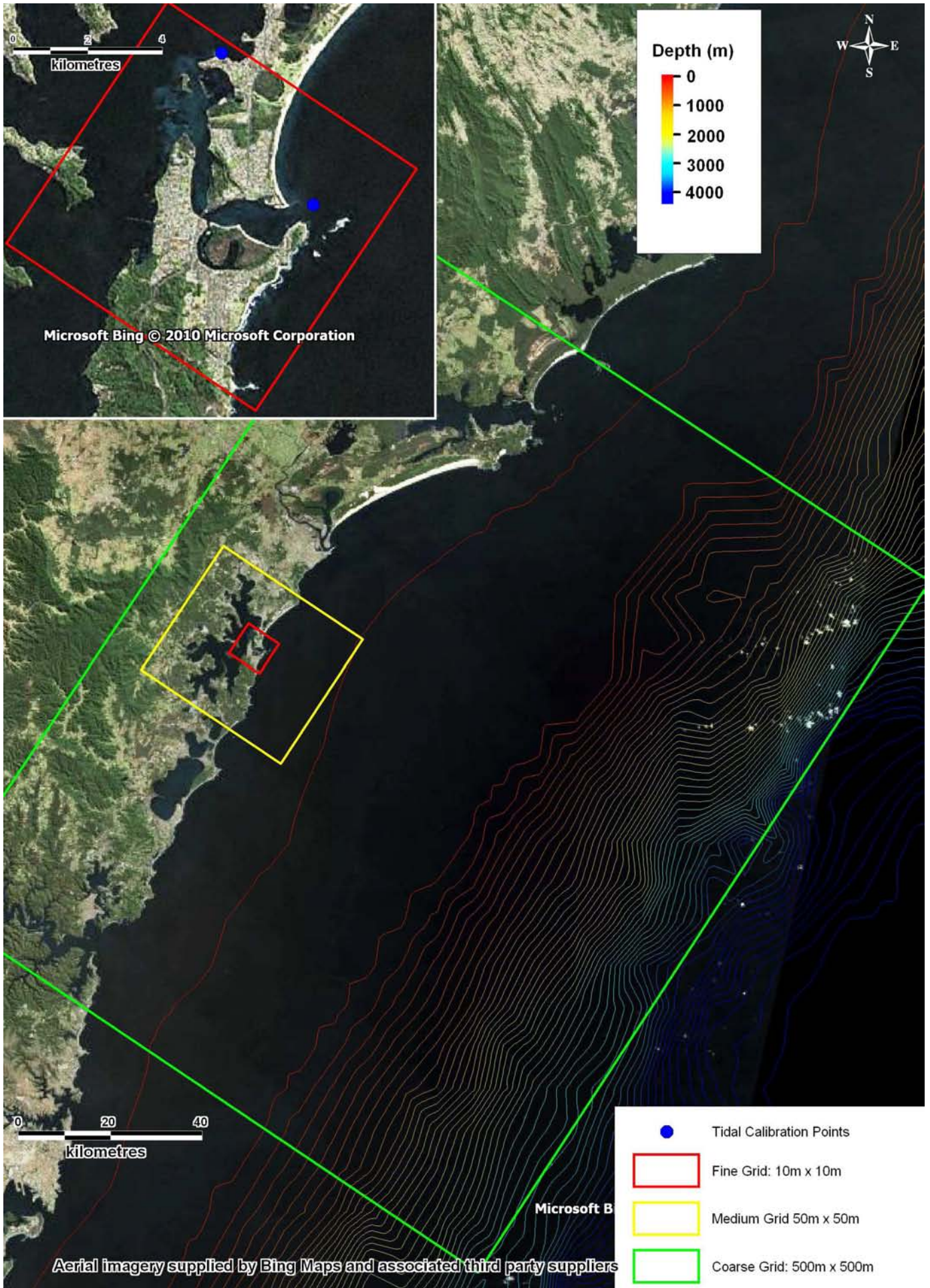
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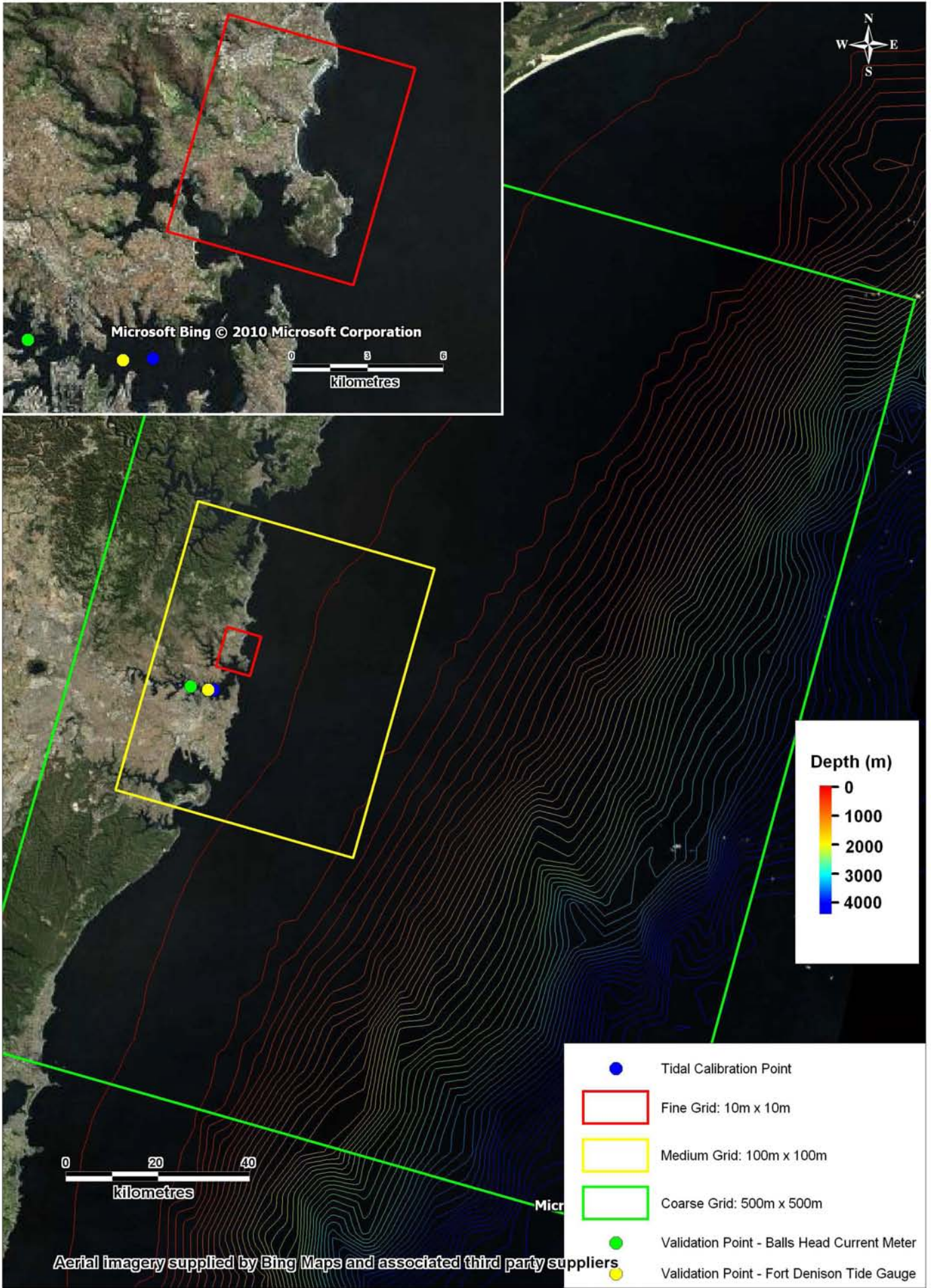
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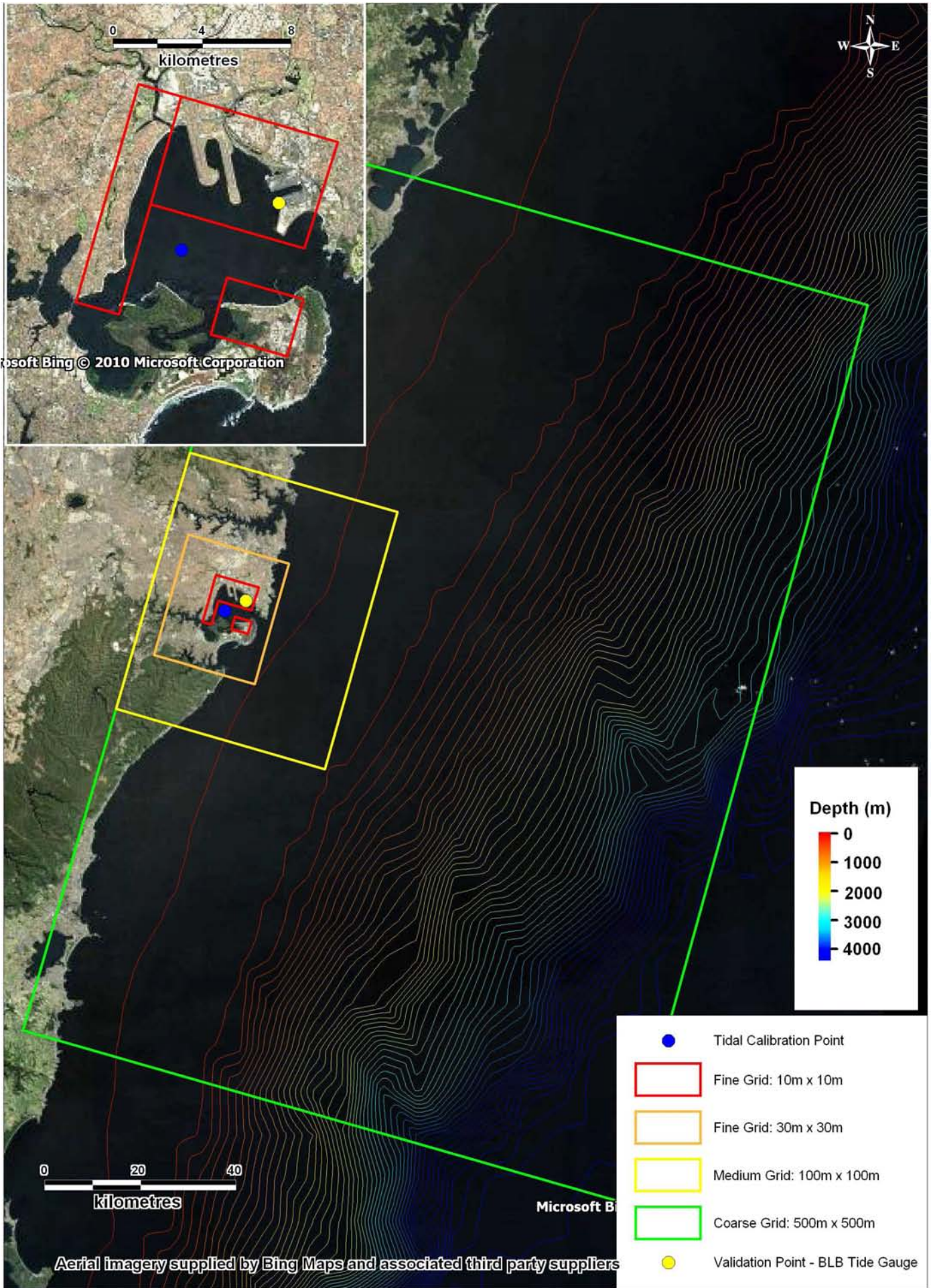




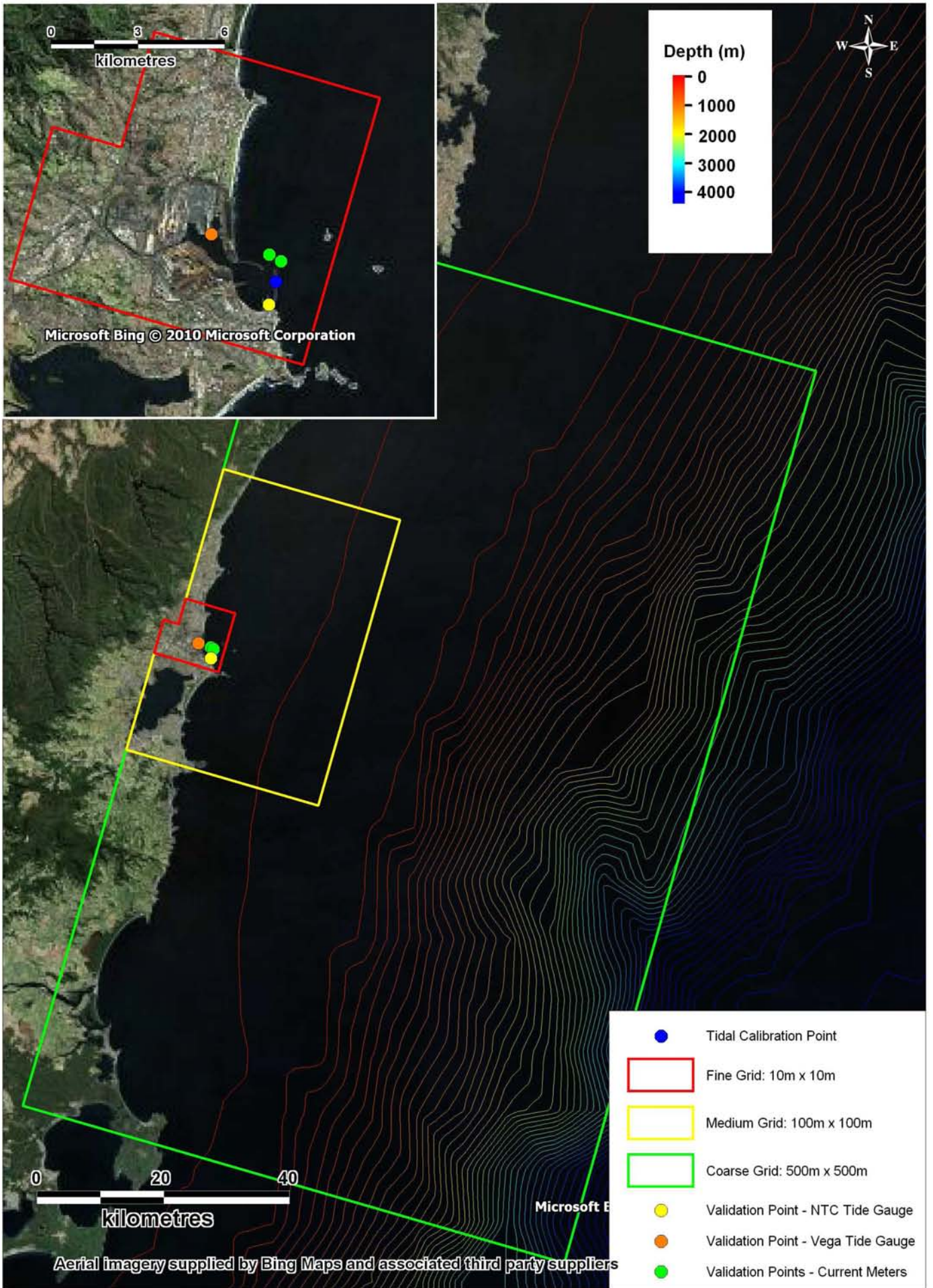




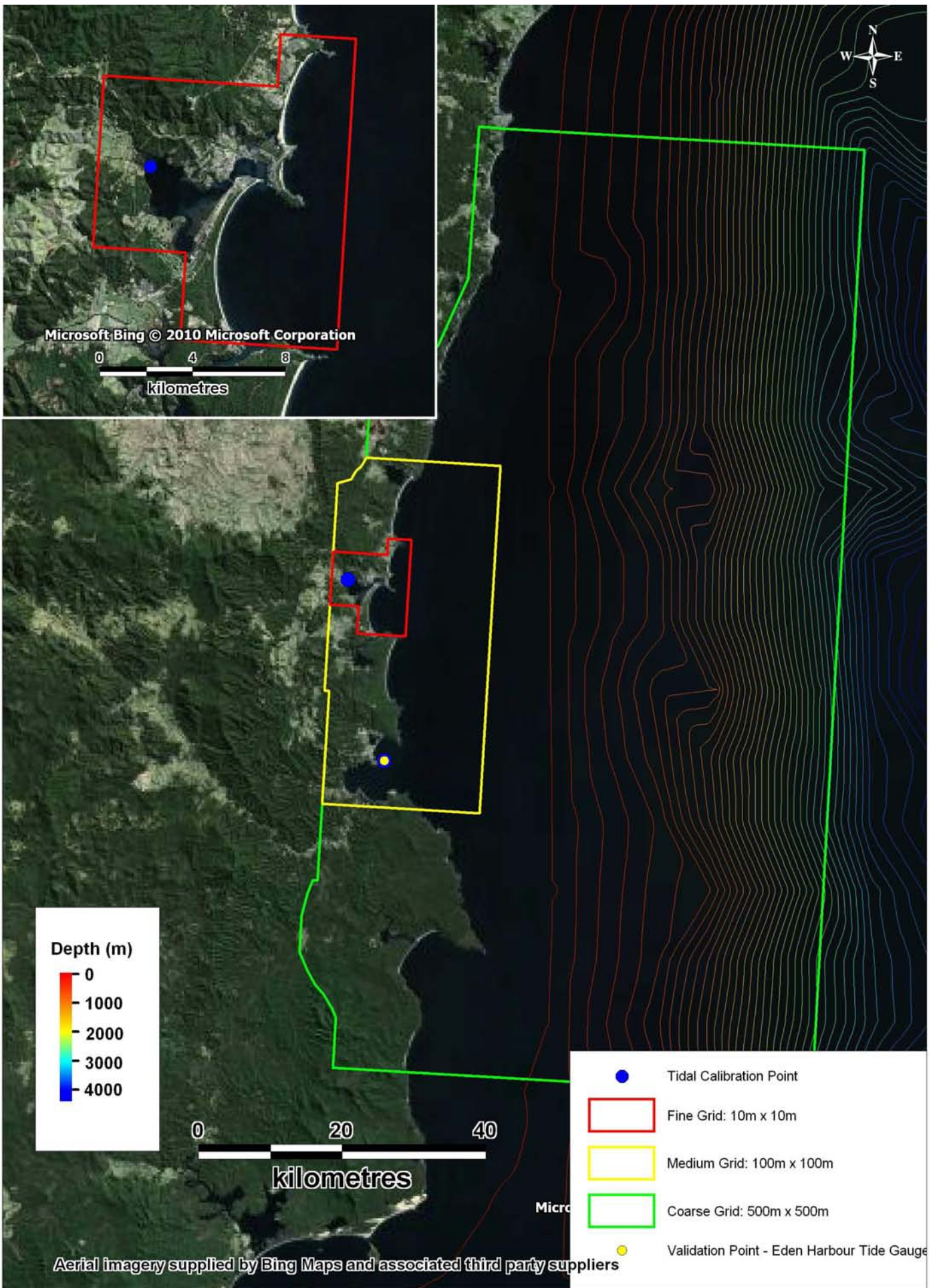






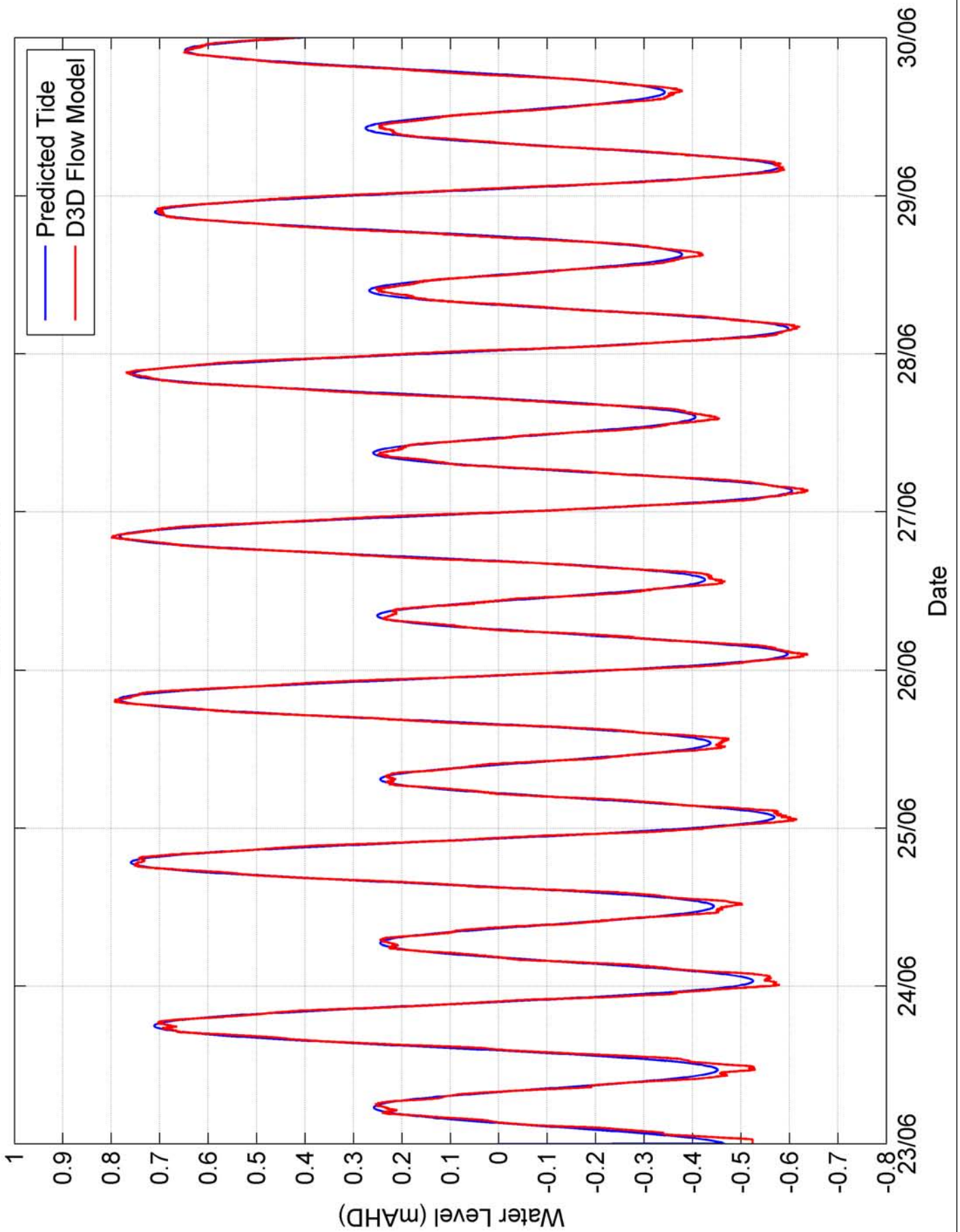




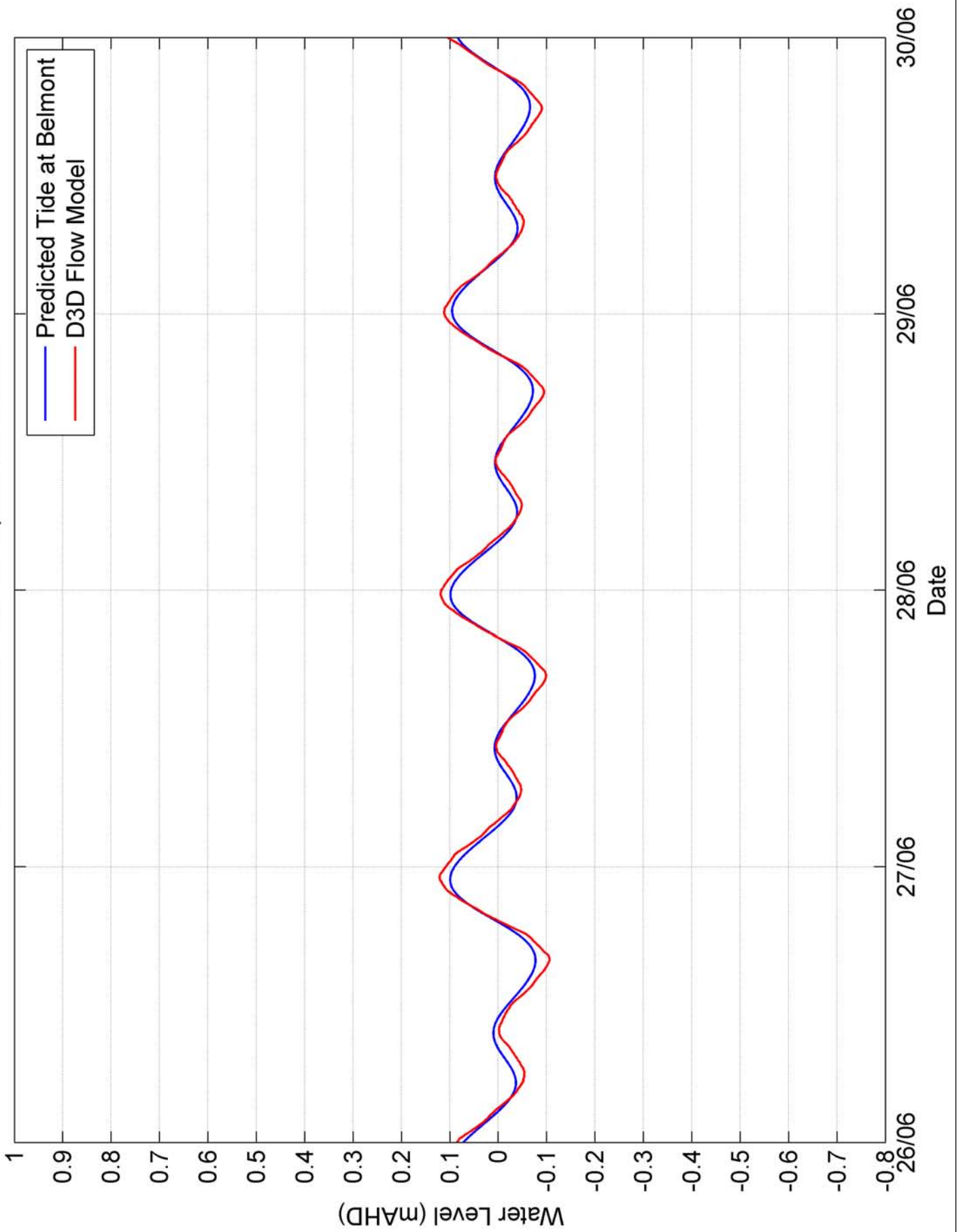




# Swansea Model Tidal Calibration

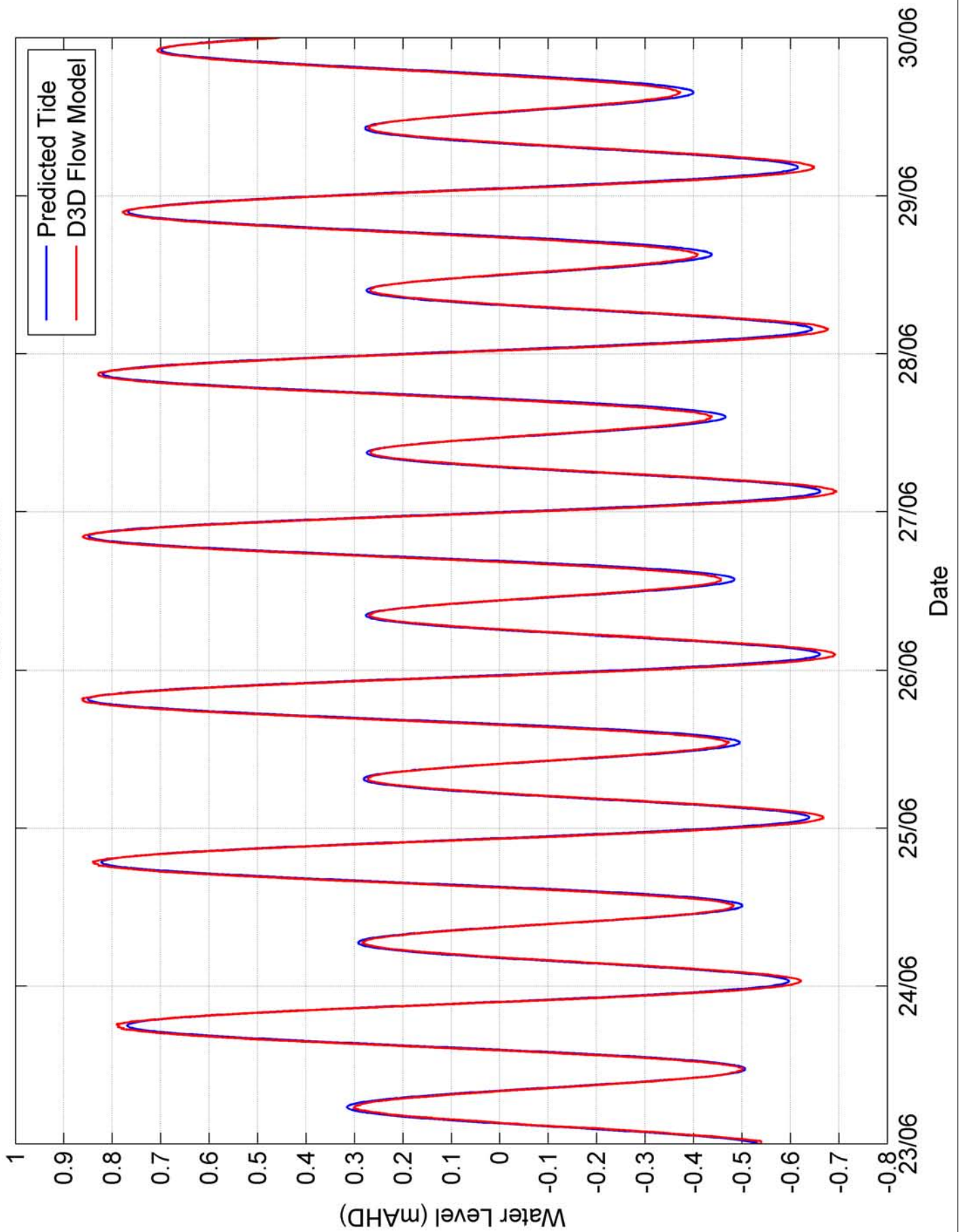


Swansea Model  
Tidal Calibration - Lake Macquarie at Belmont

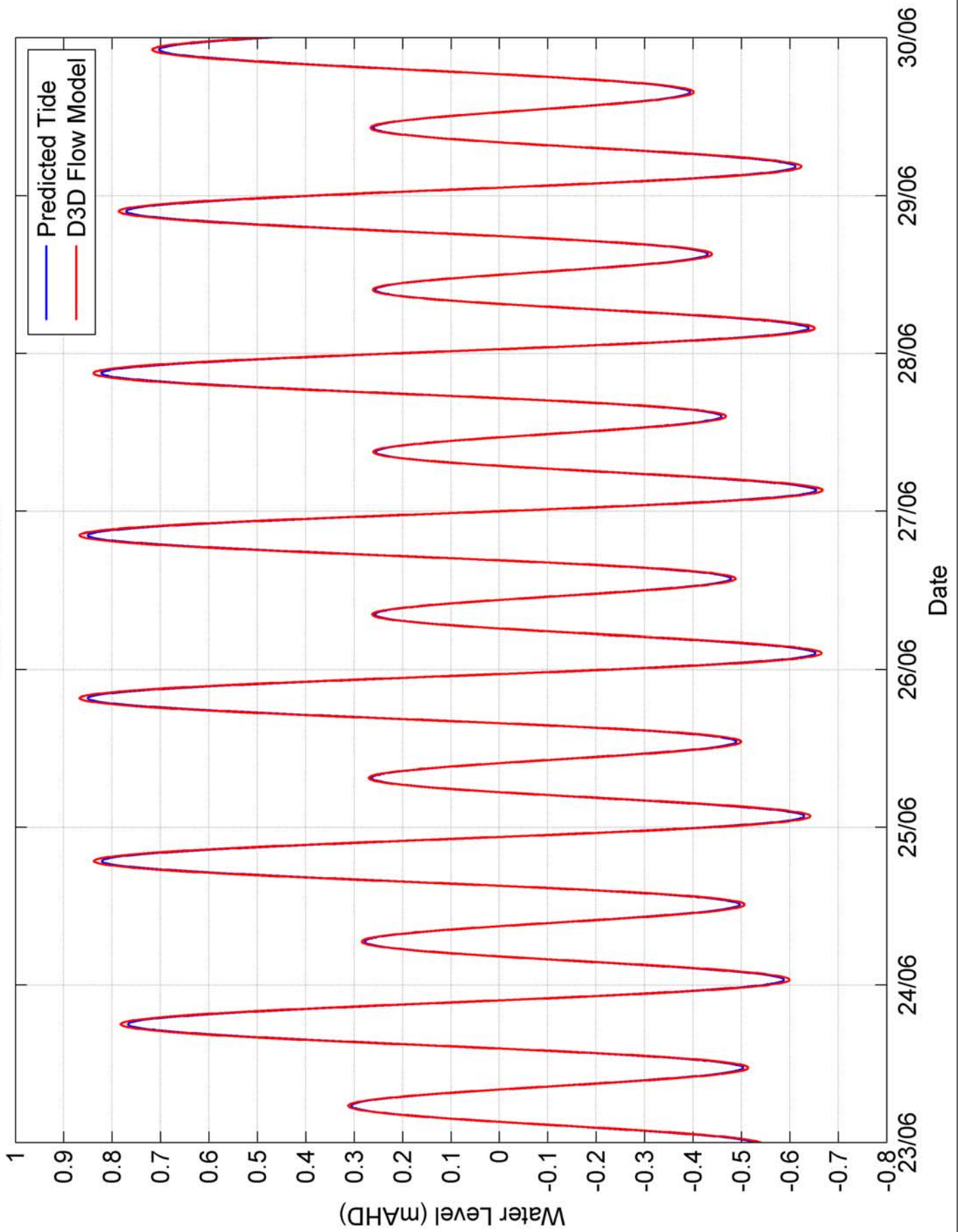




# Manly Model Tidal Calibration

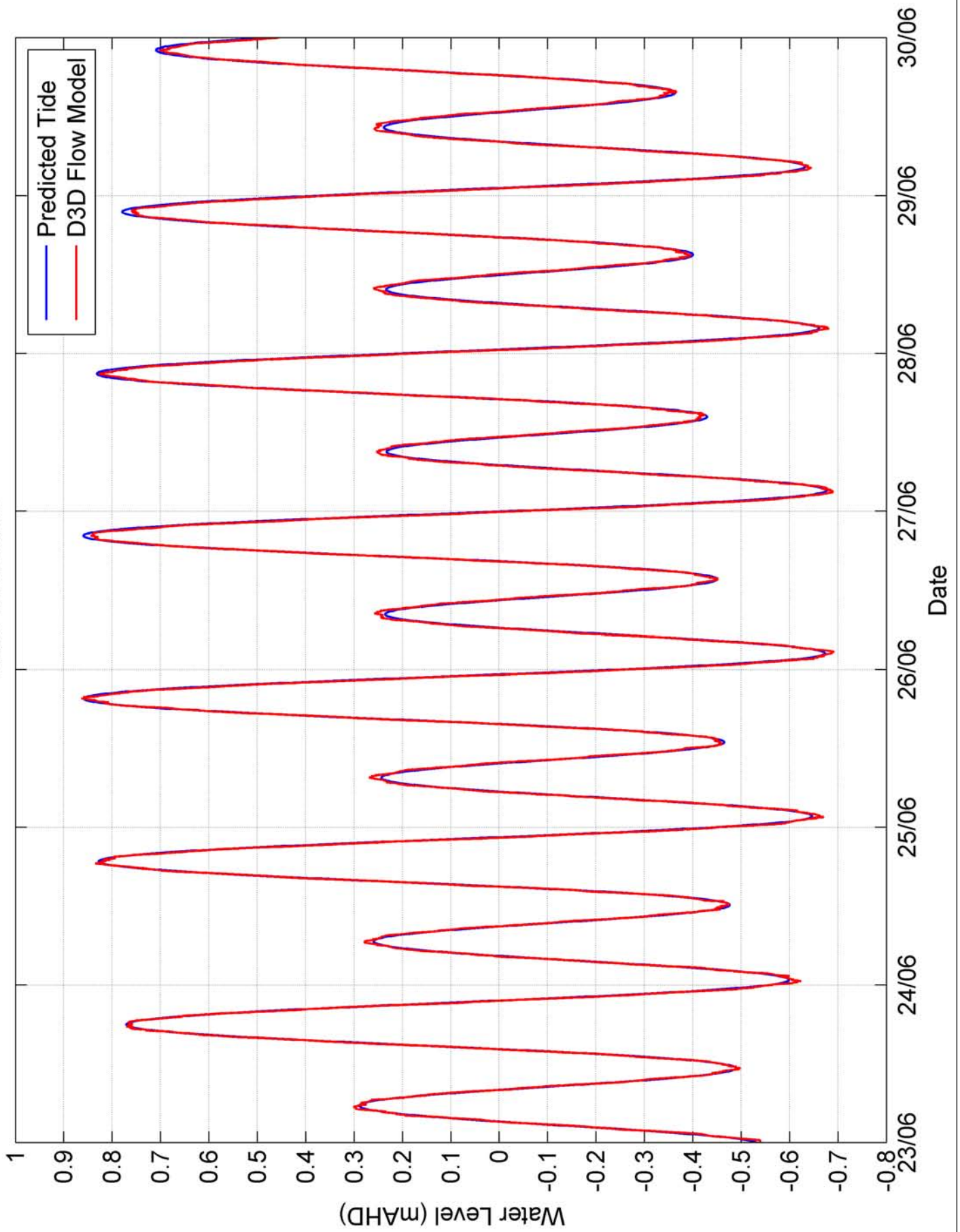


# Botany Bay Model Tidal Calibration

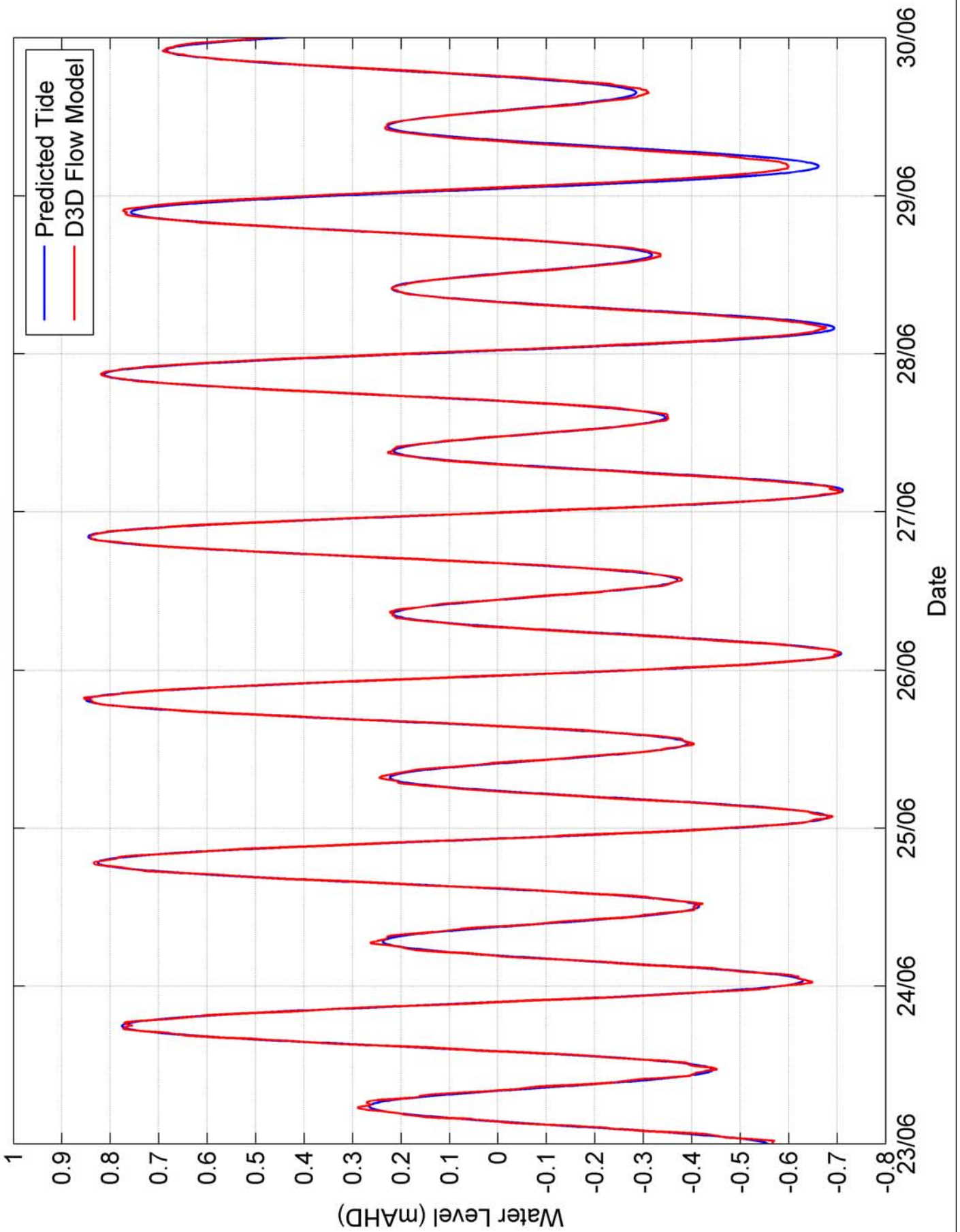




# Wollongong Model Tidal Calibration

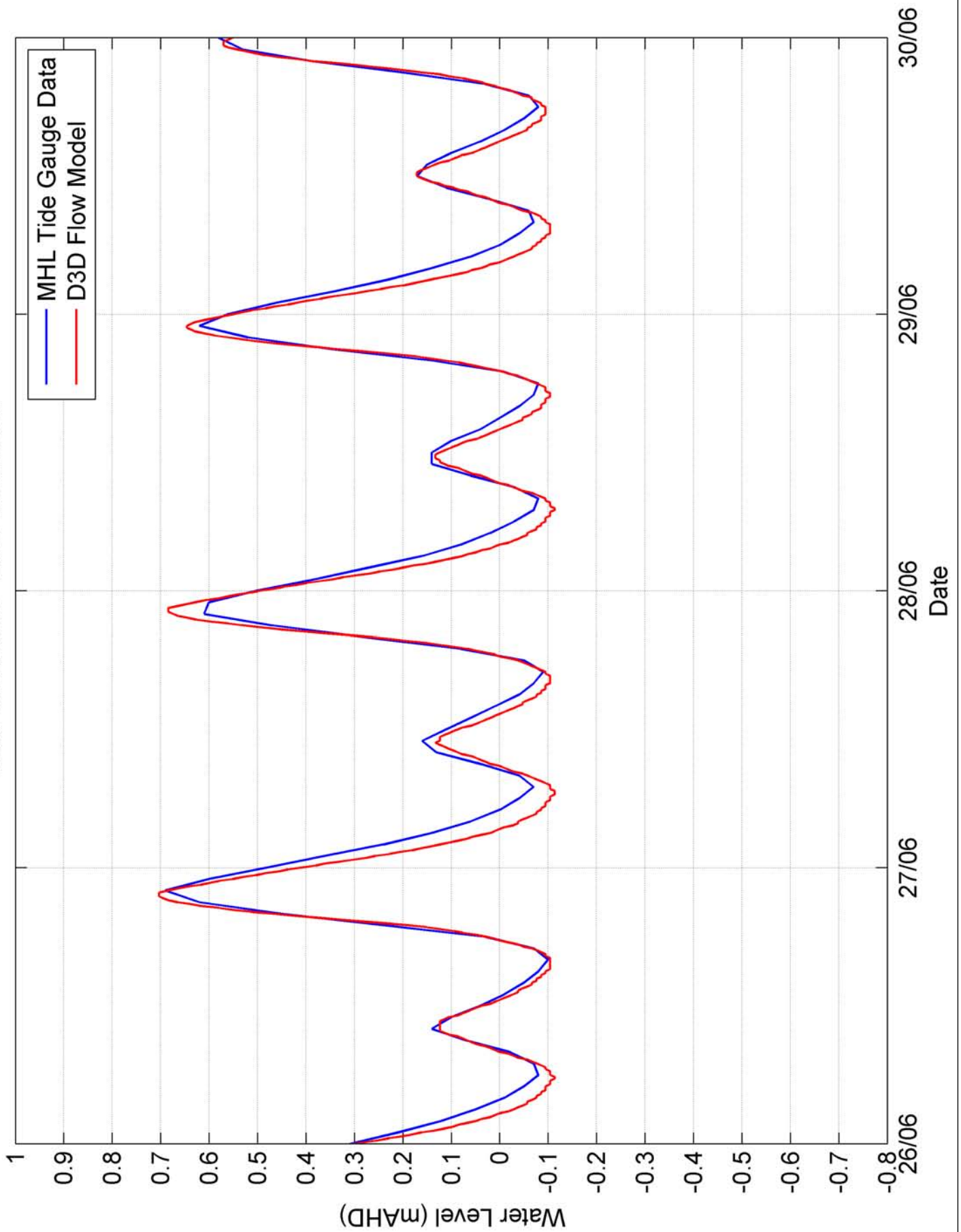


# Merimbula Model Tidal Calibration

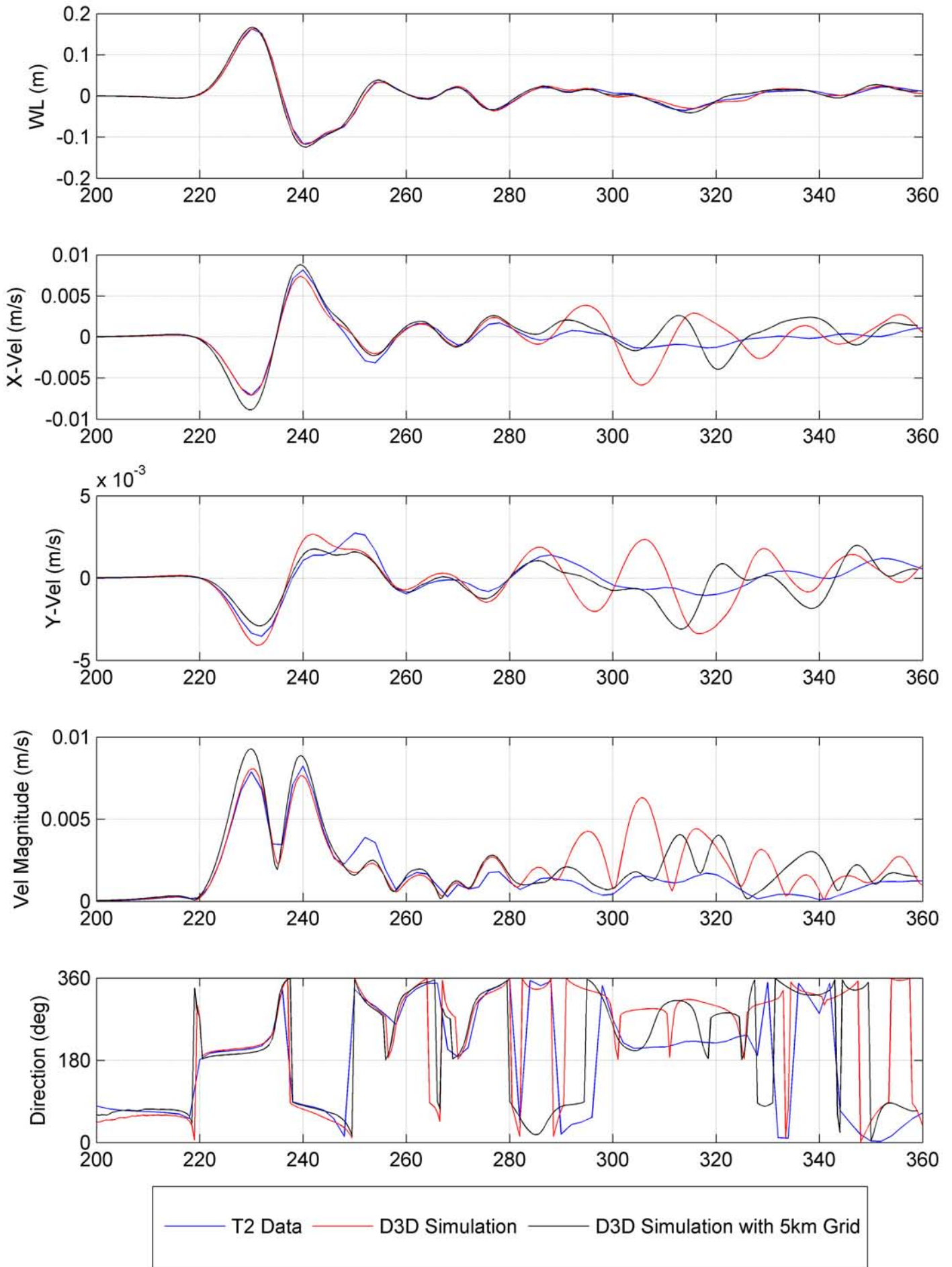




Merimbula Model  
Tidal Calibration - Lake Merimbula

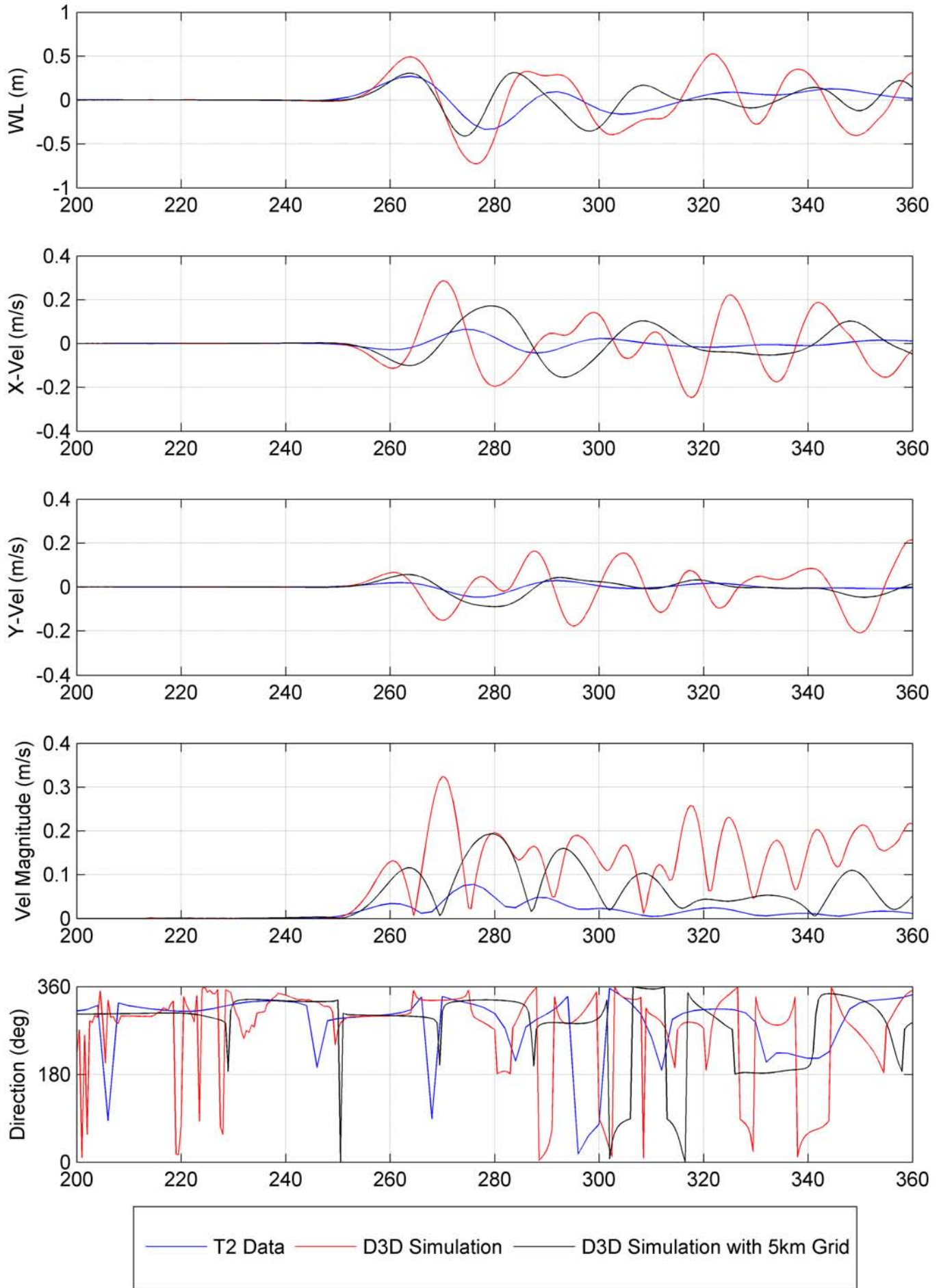


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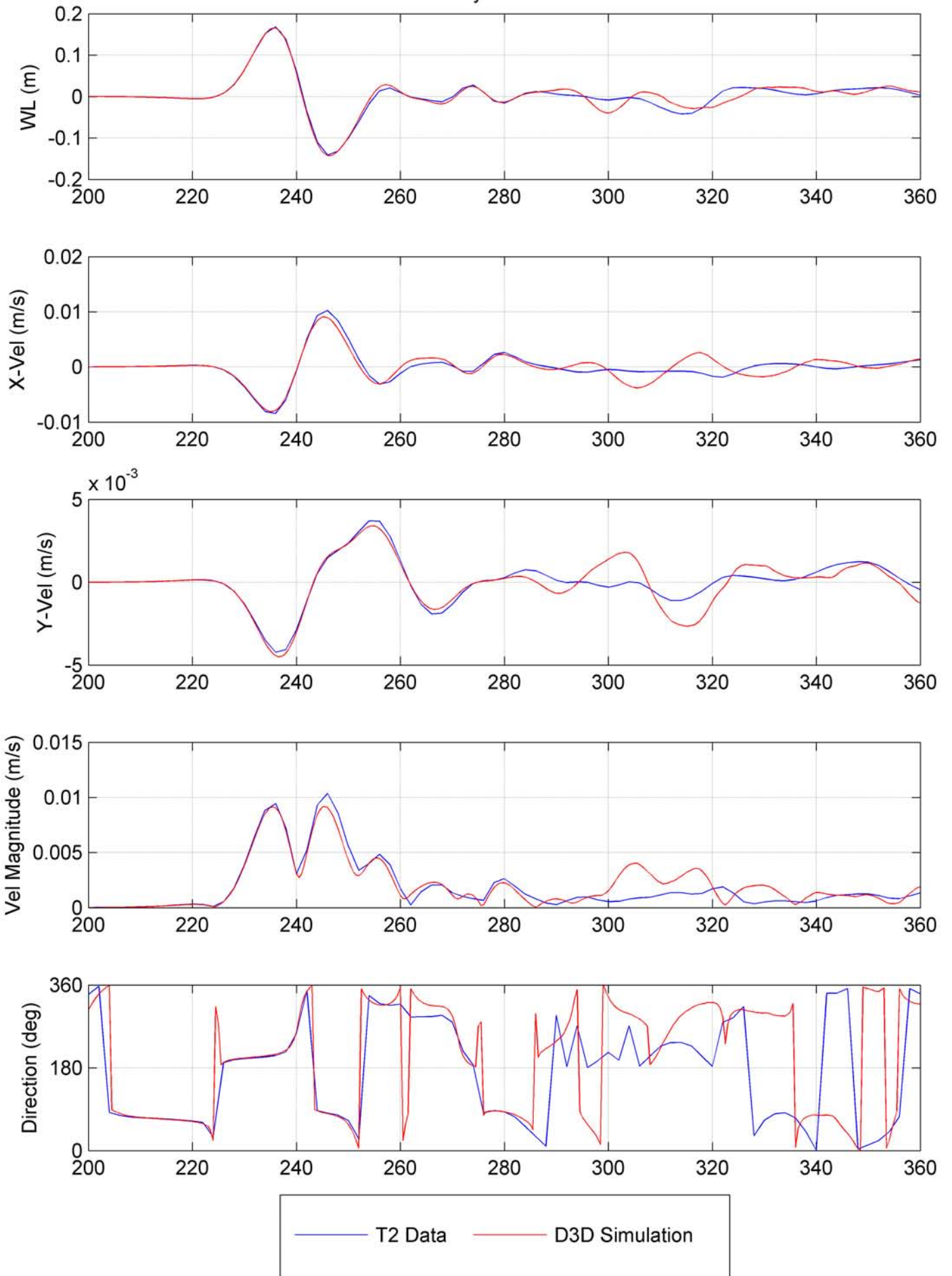




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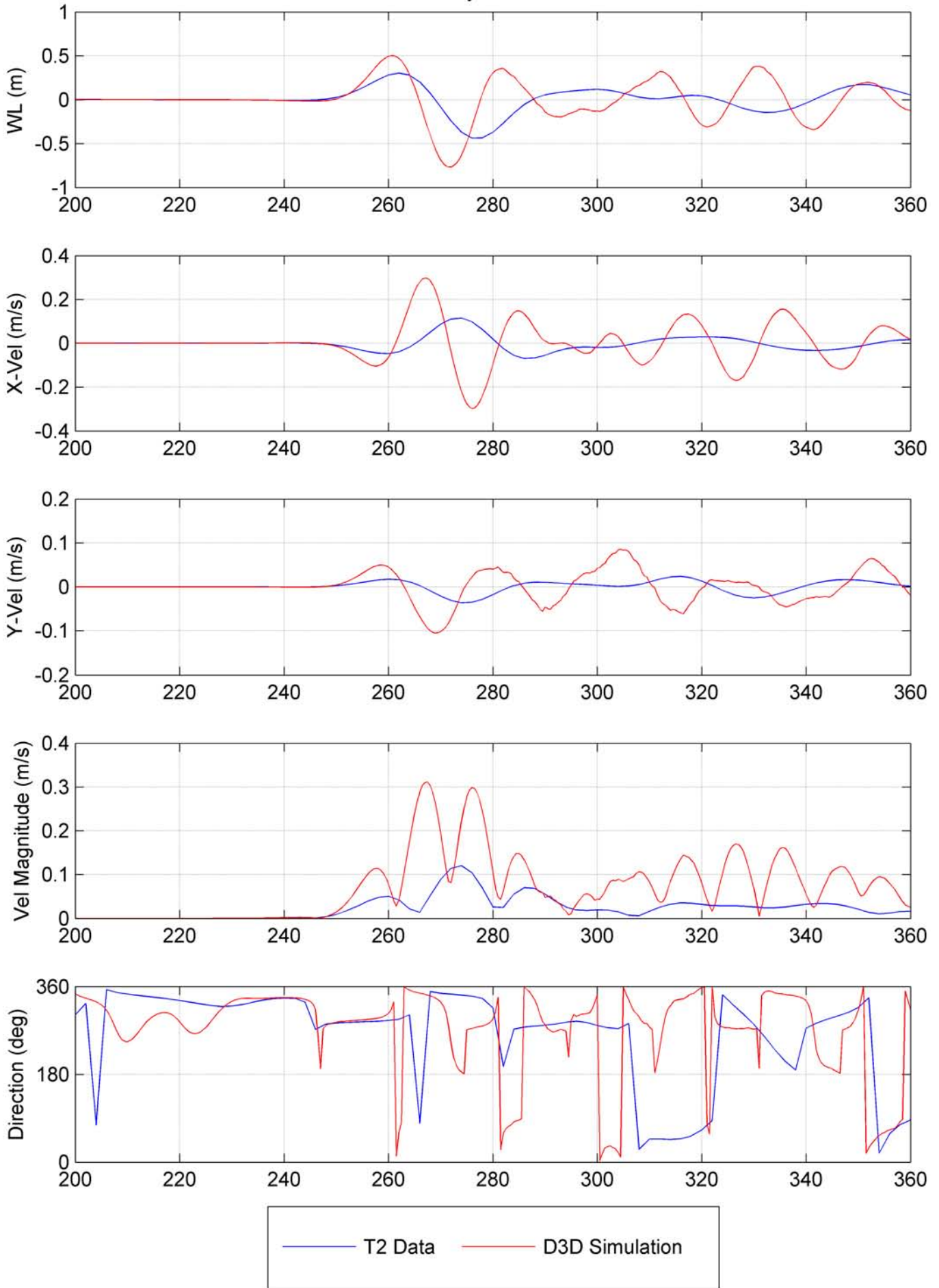


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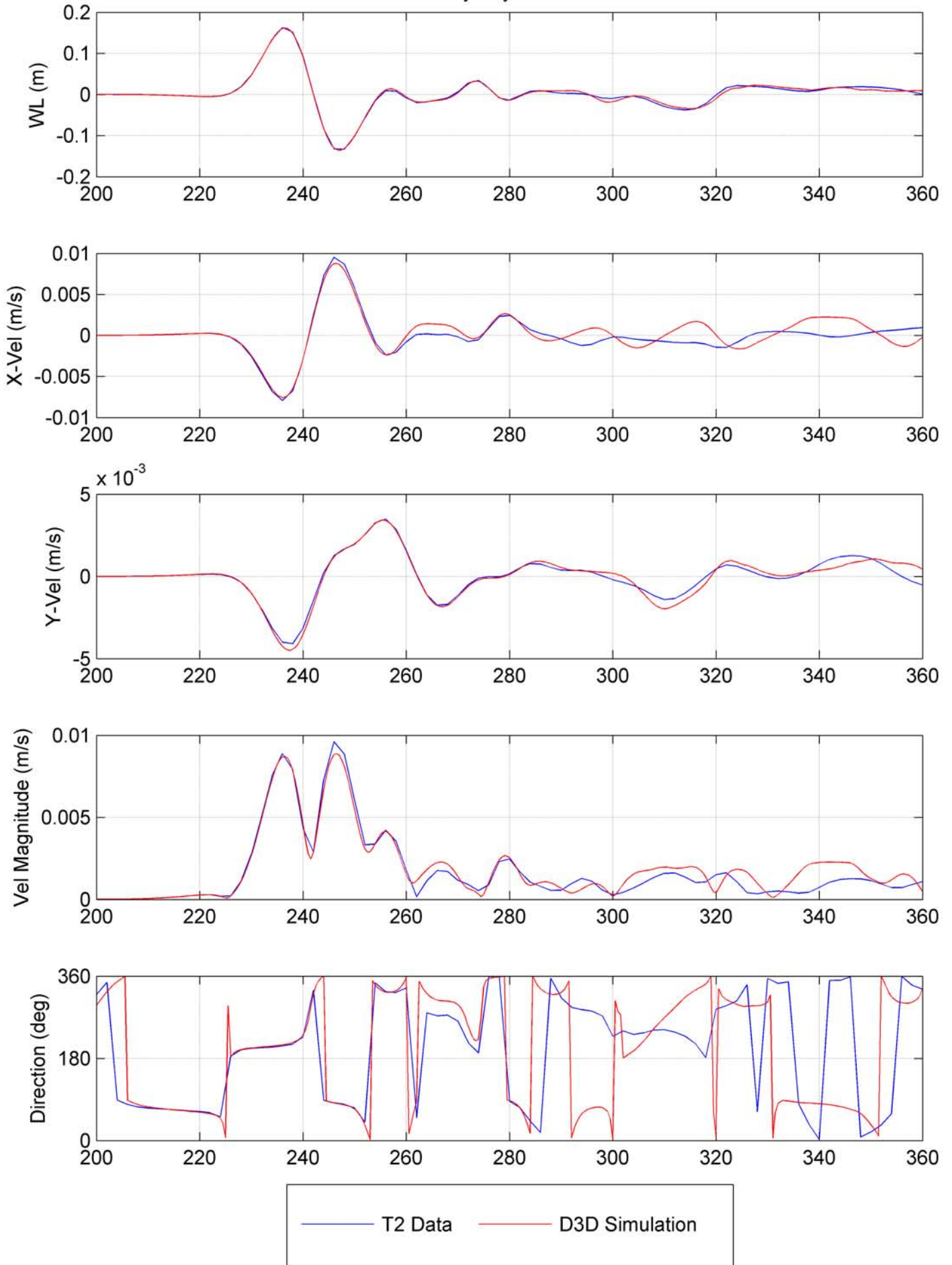




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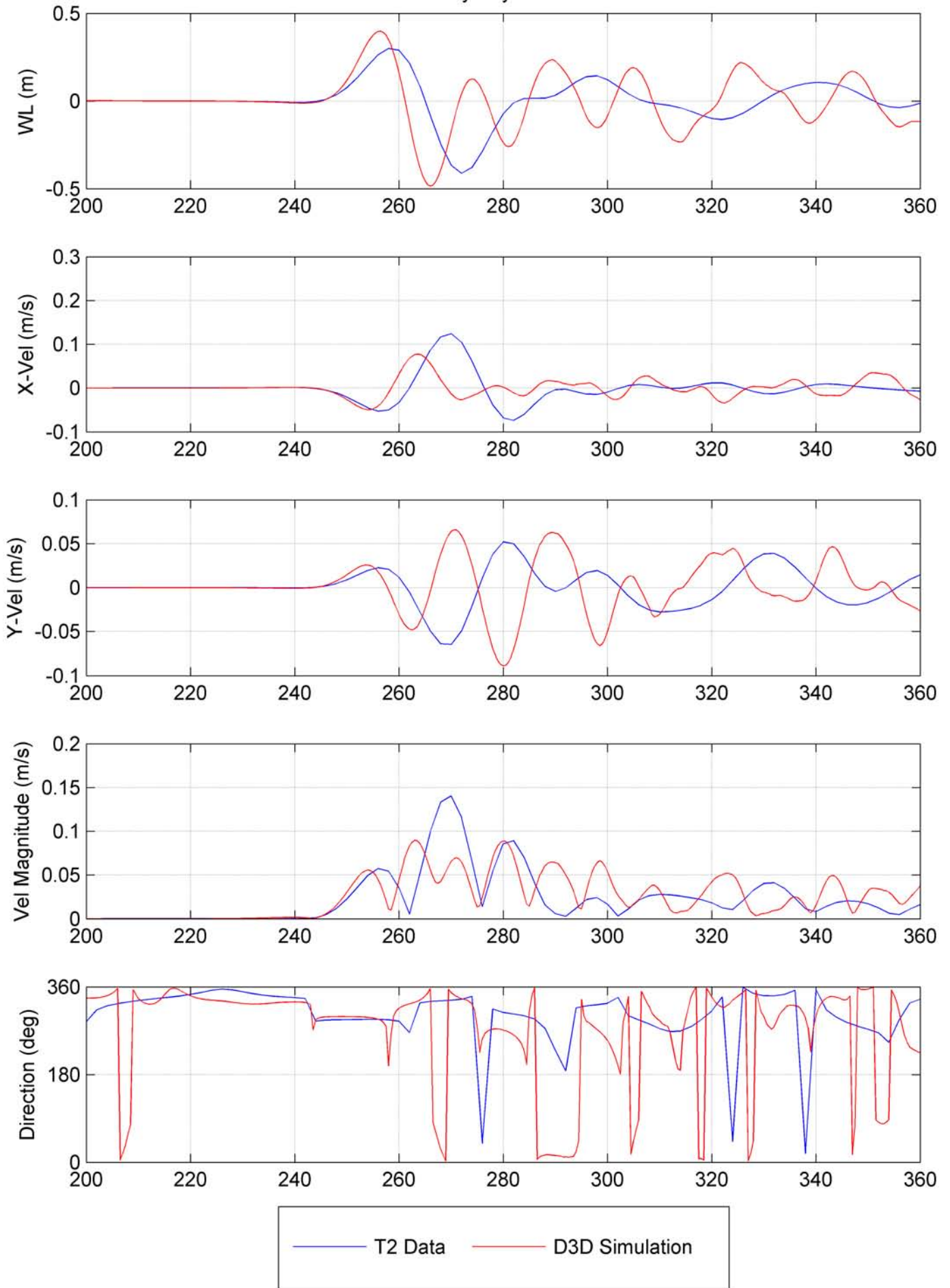


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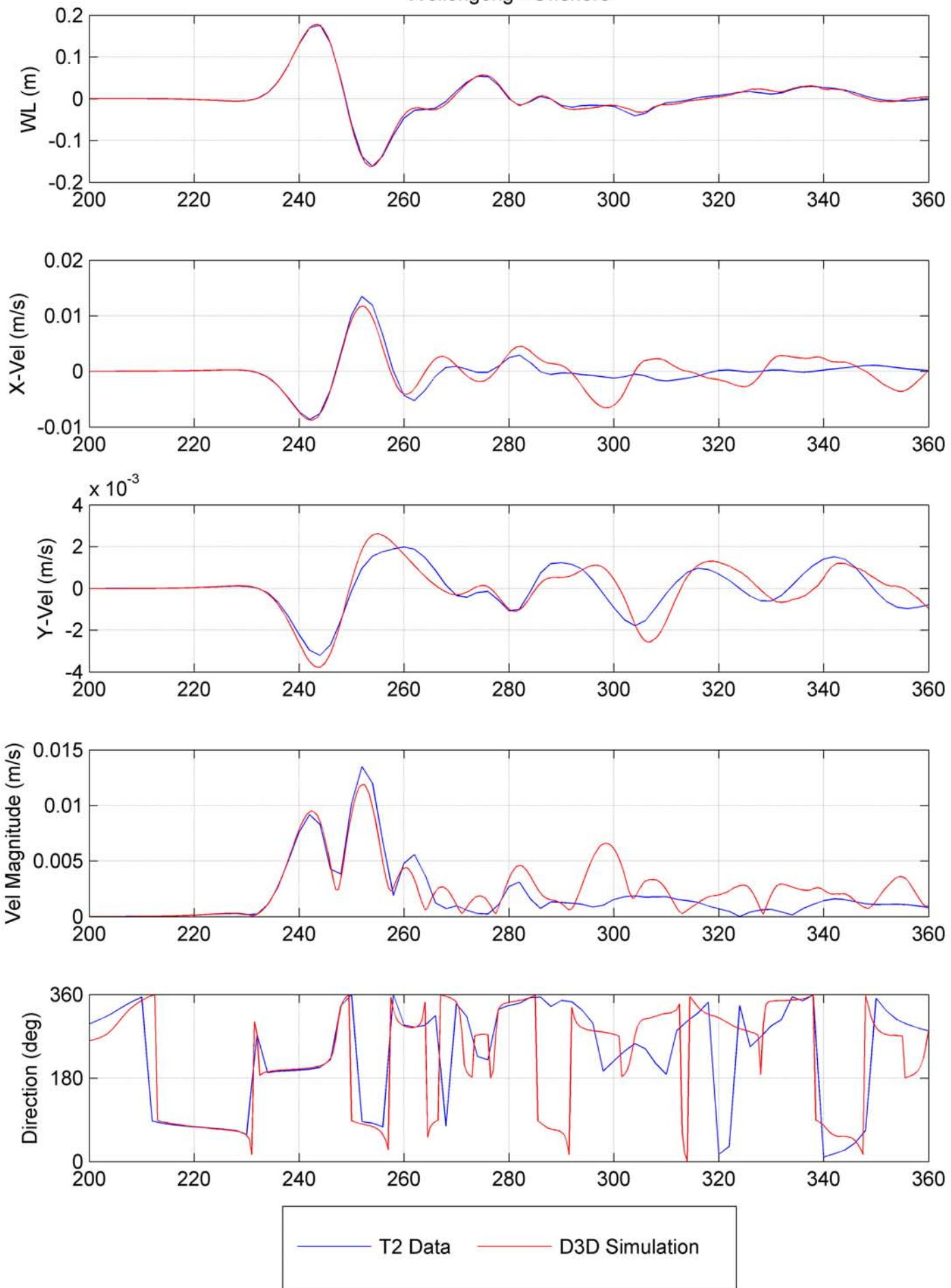




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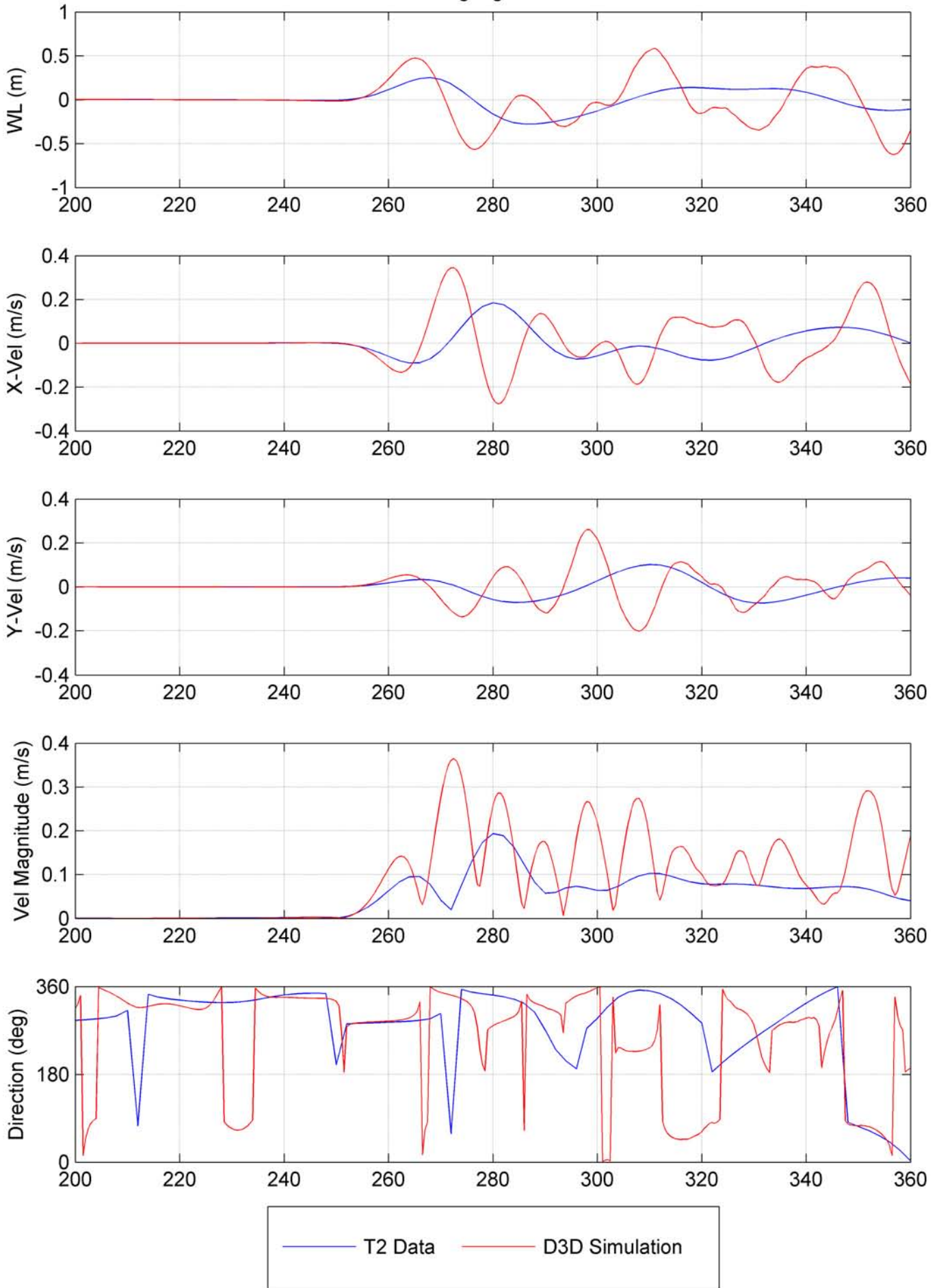


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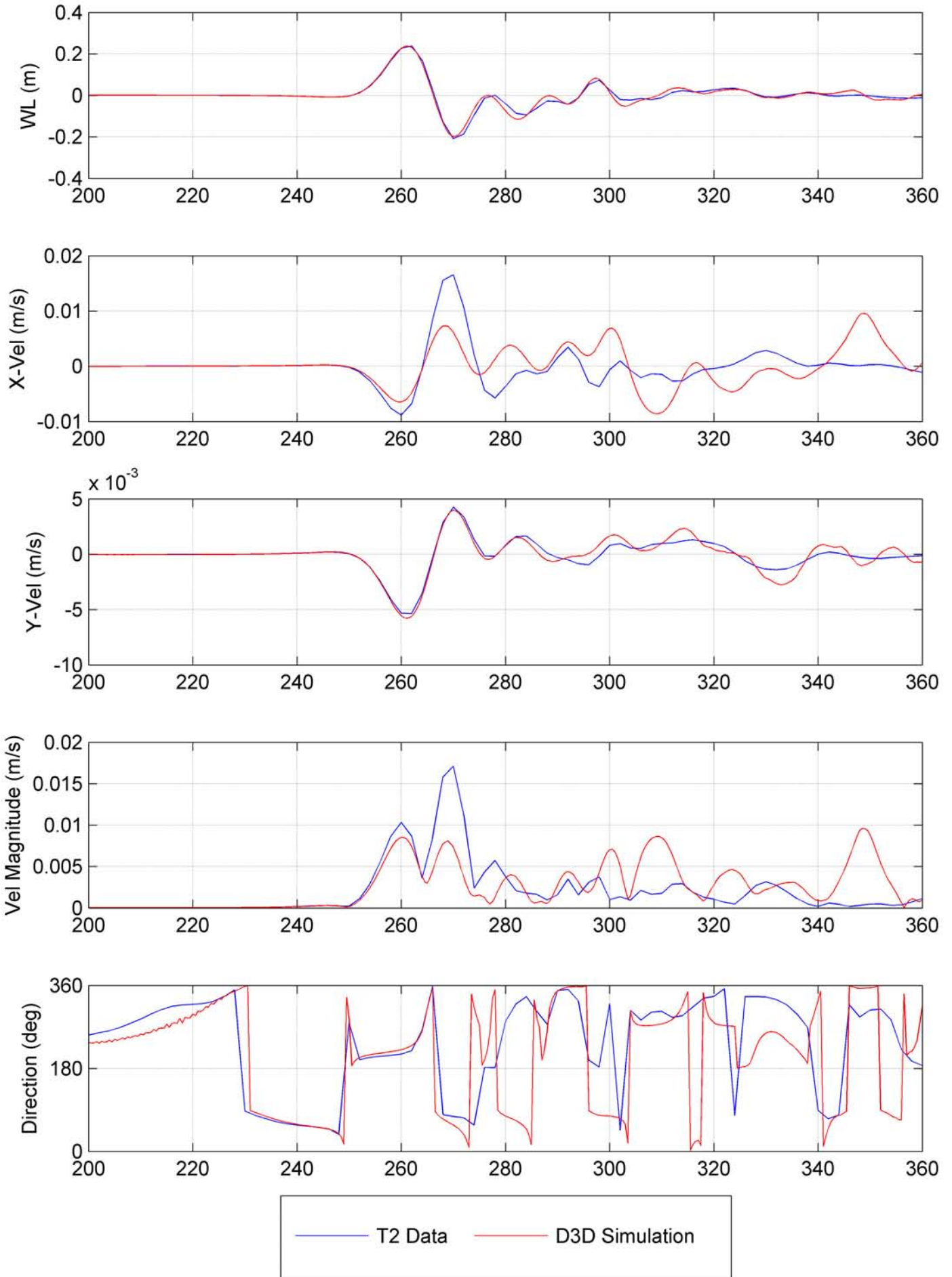




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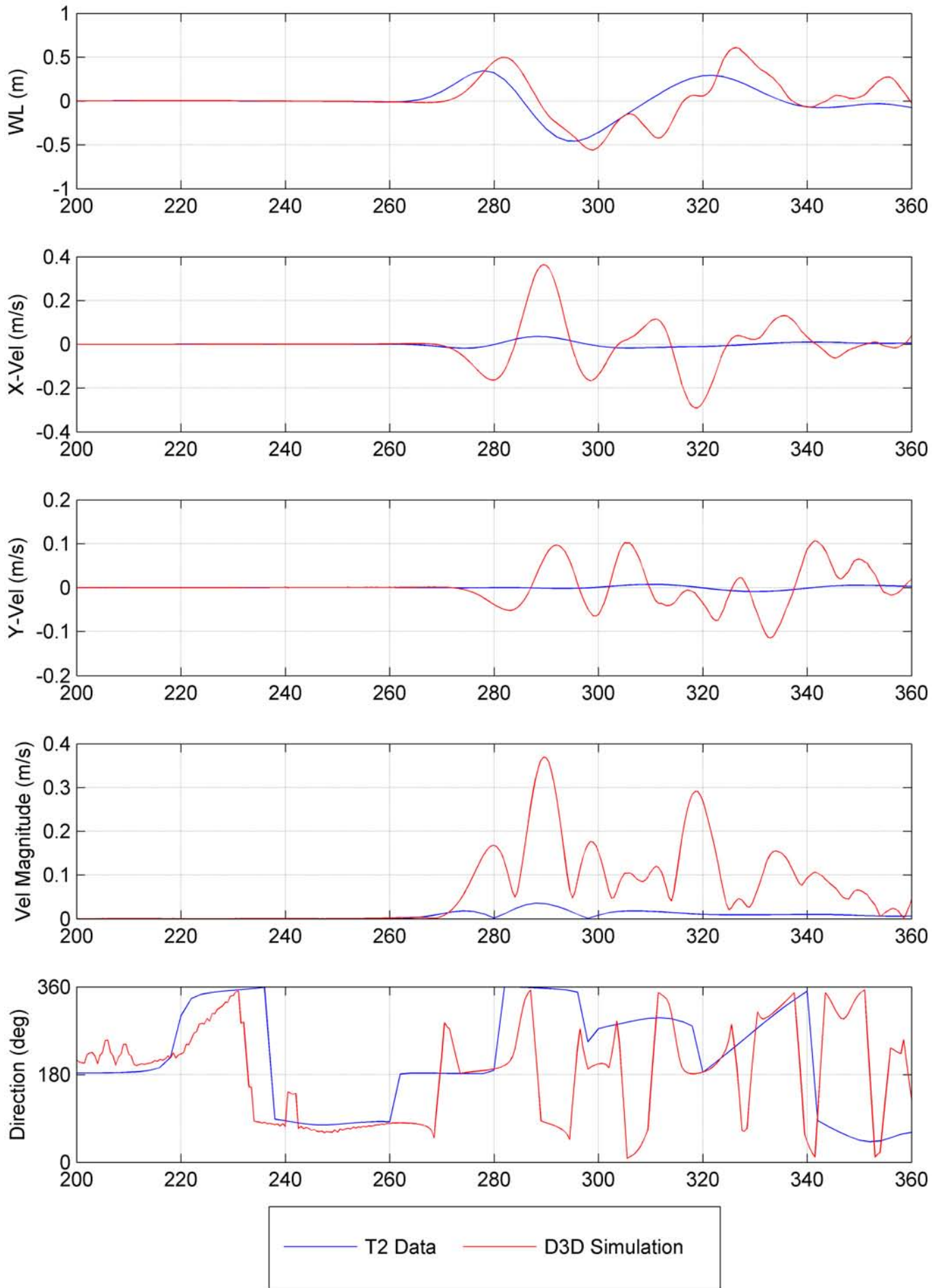


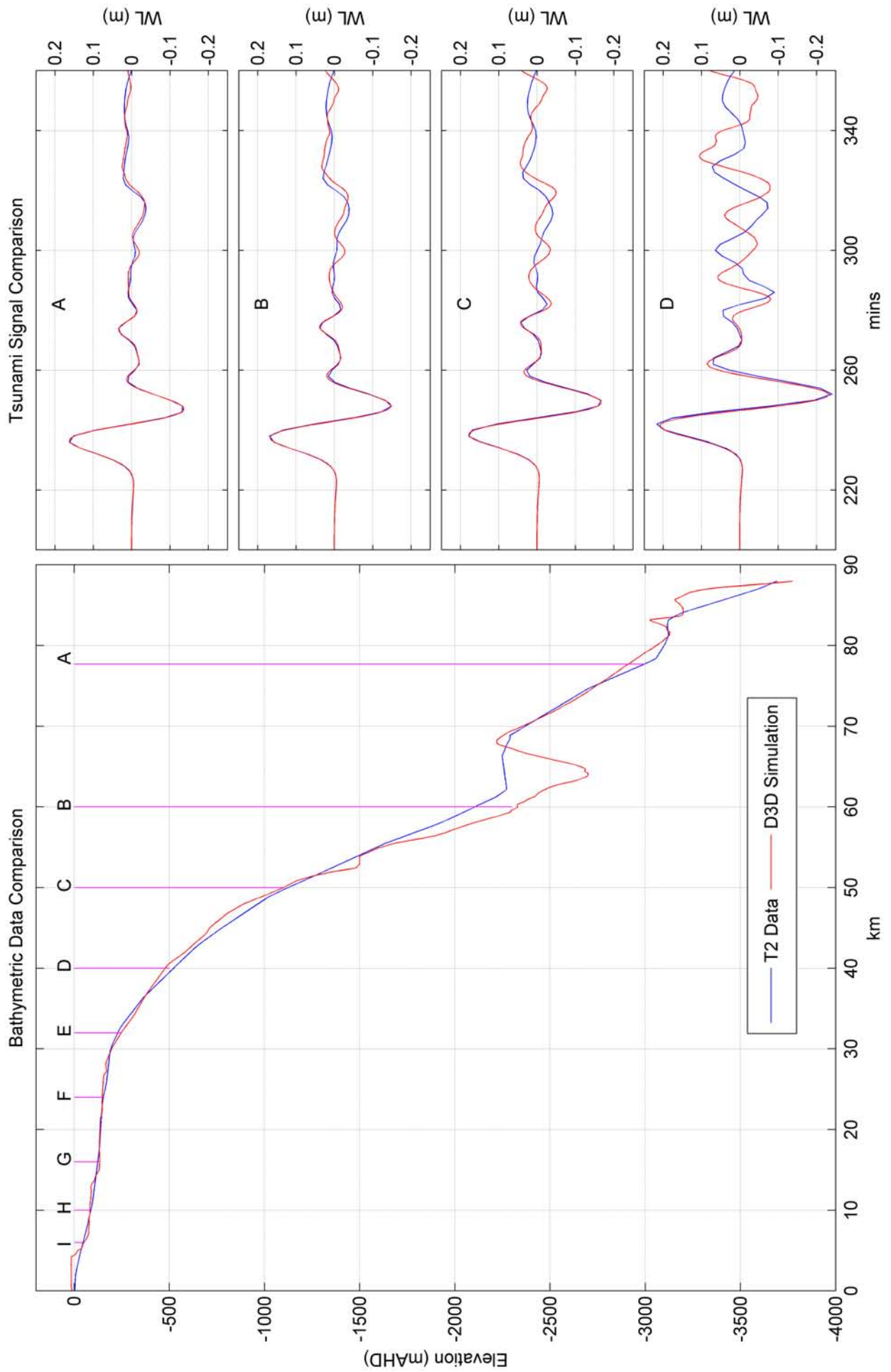
### Merimbula - Offshore



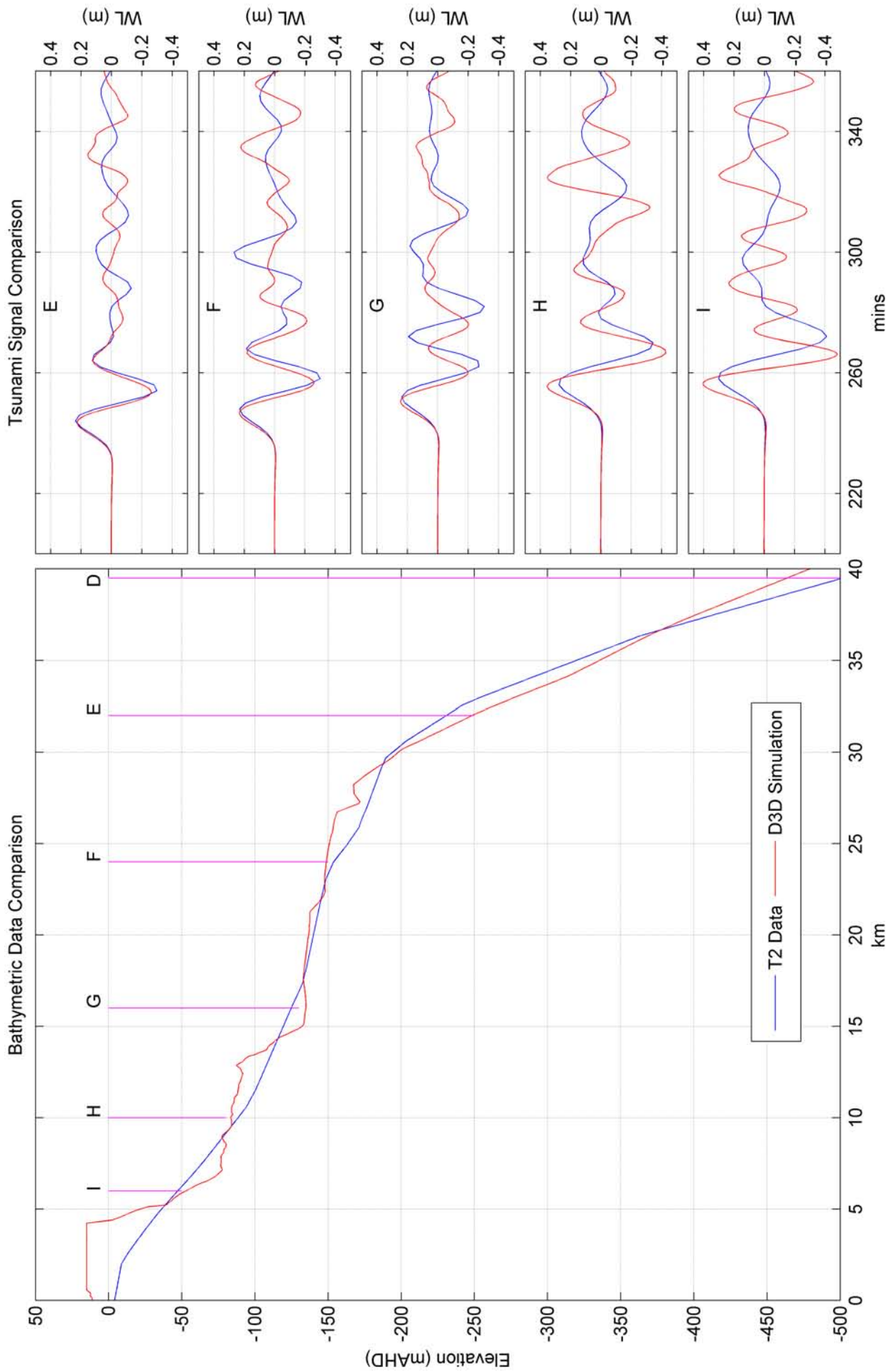


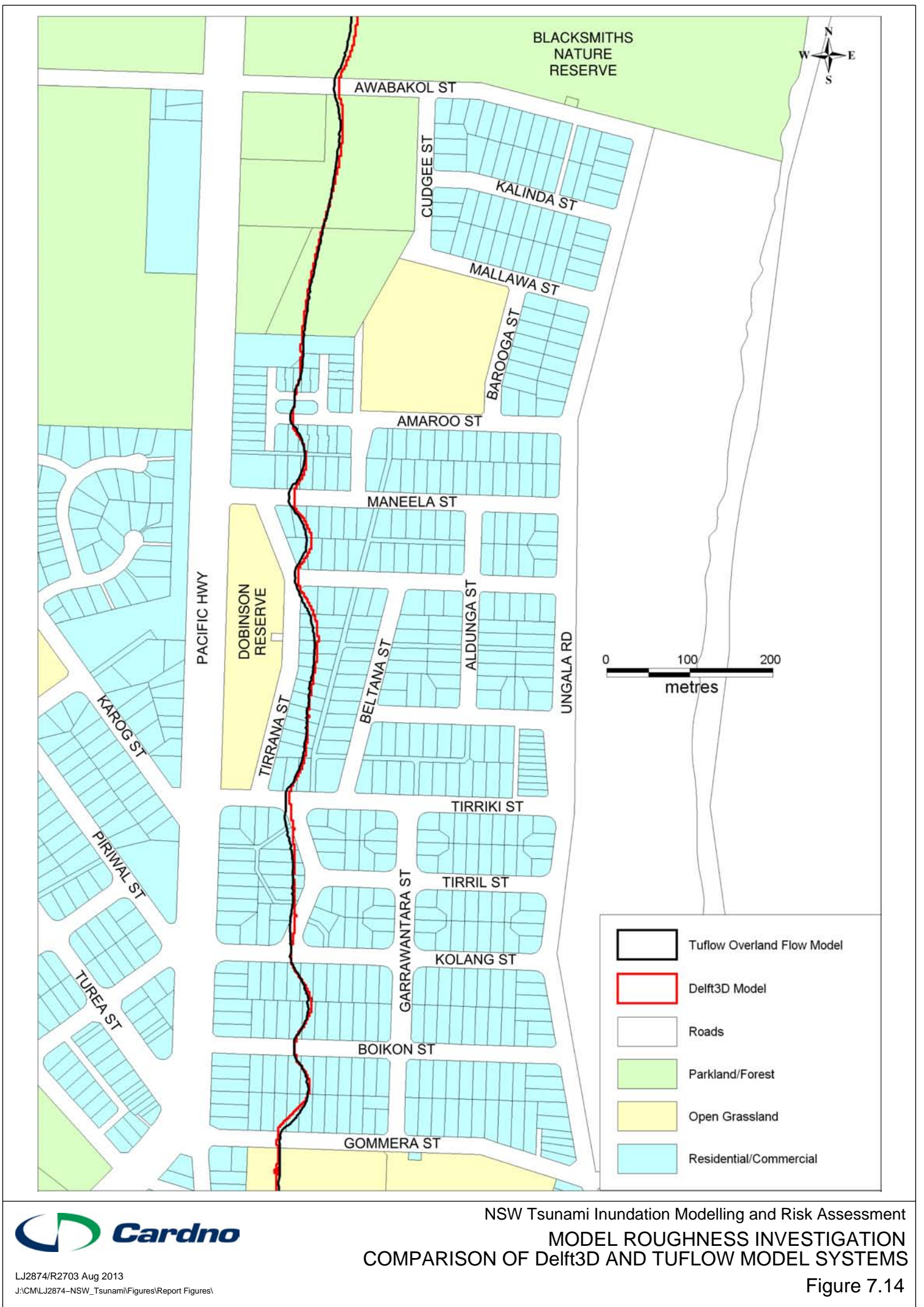
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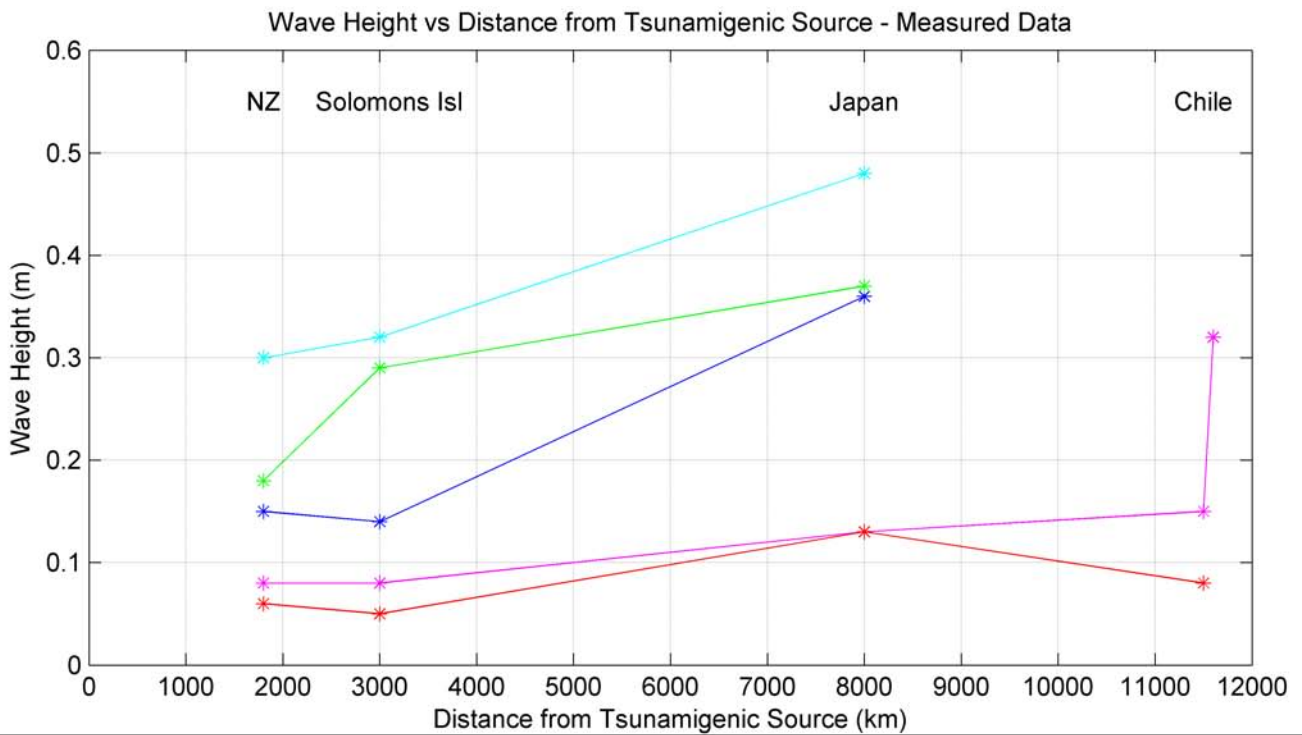




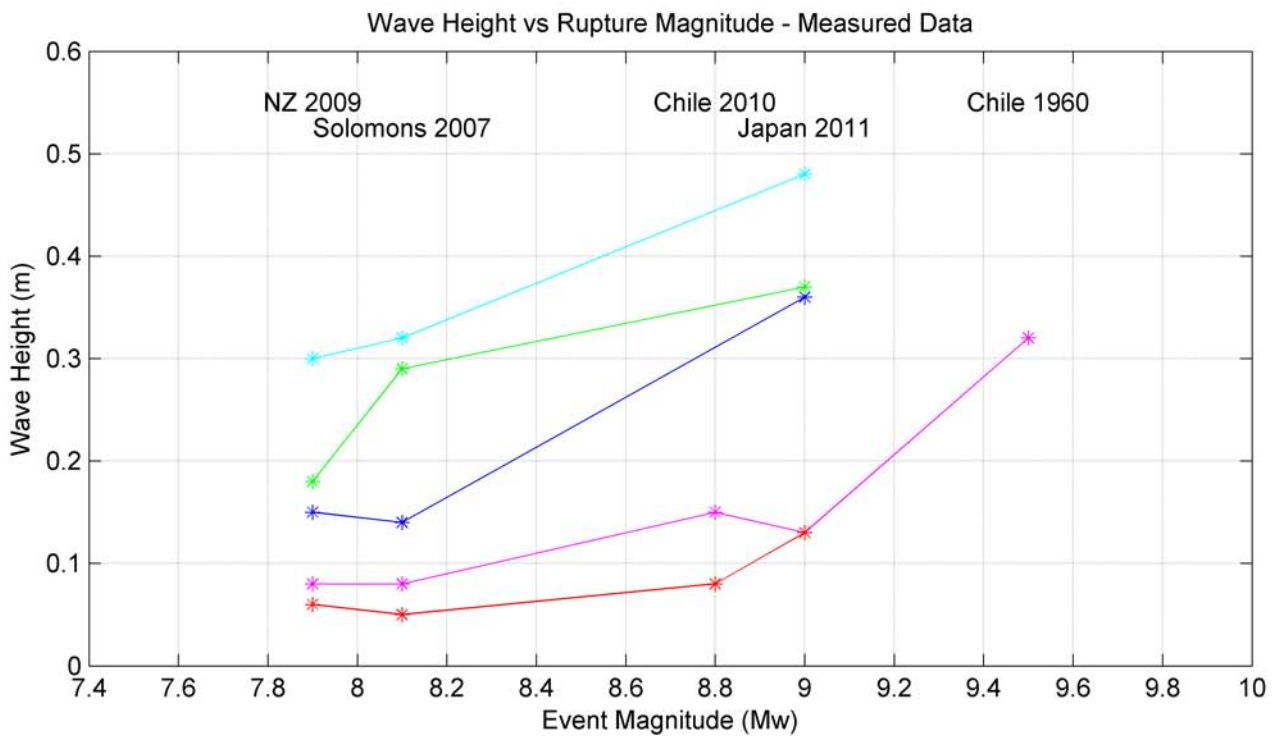


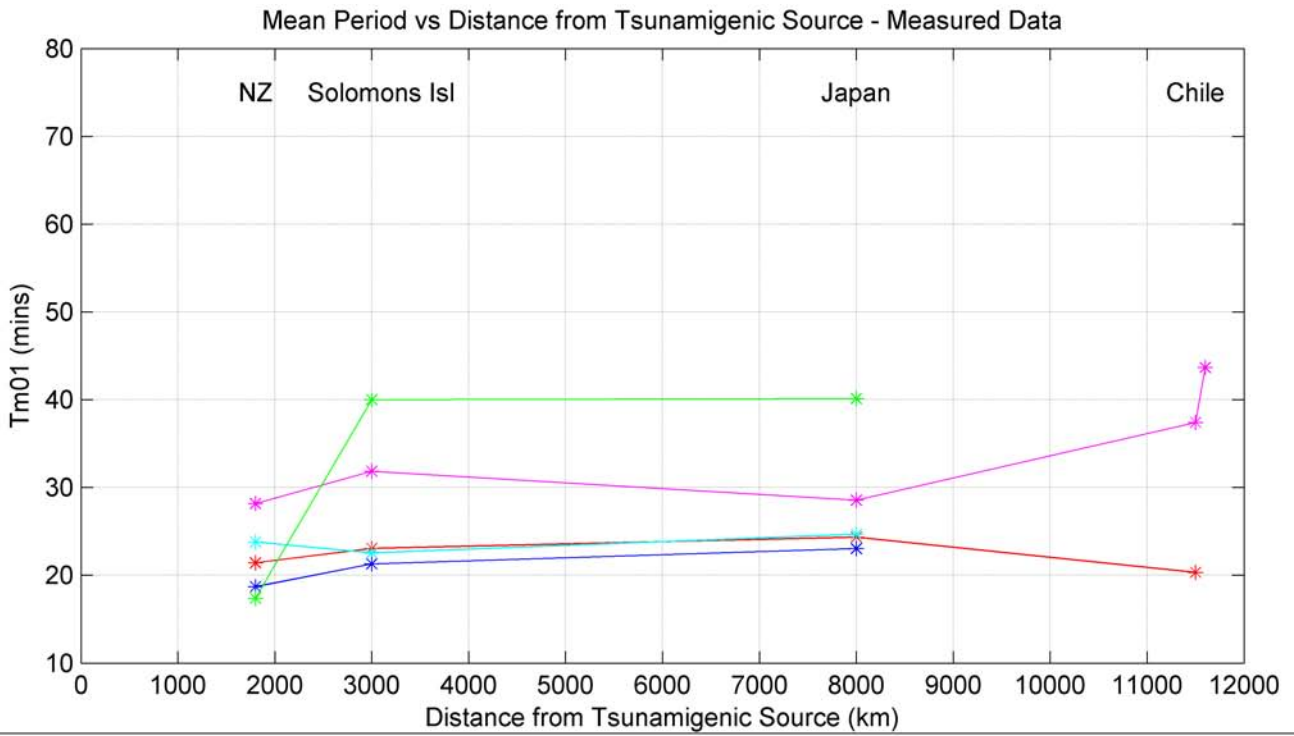




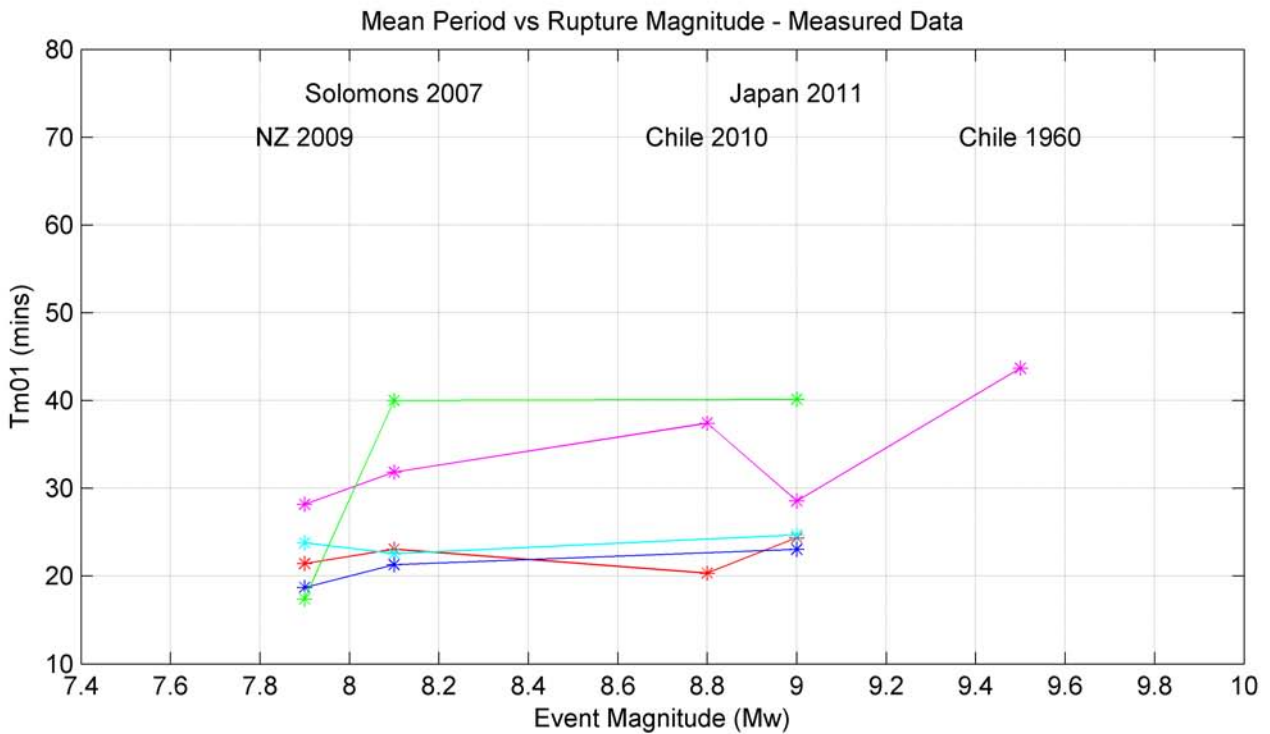


\* Fort Denison   
 \* Botany Bay   
 \* Port Kembla Inner Harbour   
 \* Port Kembla Outer Harbour   
 \* Eden



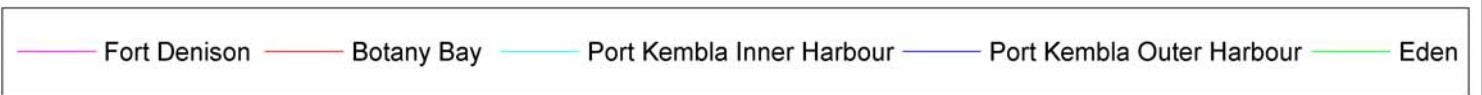
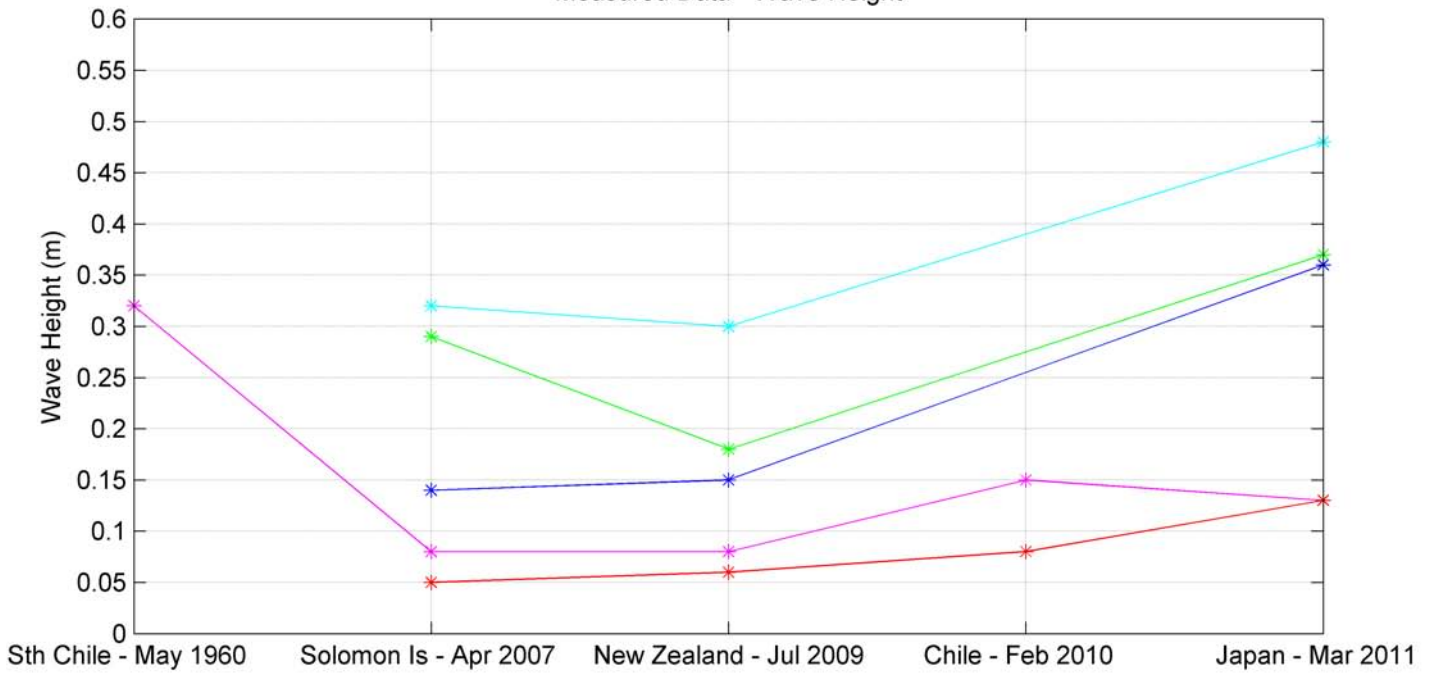


\* Fort Denison   
 \* Botany Bay   
 \* Port Kembla Inner Harbour   
 \* Port Kembla Outer Harbour   
 \* Eden

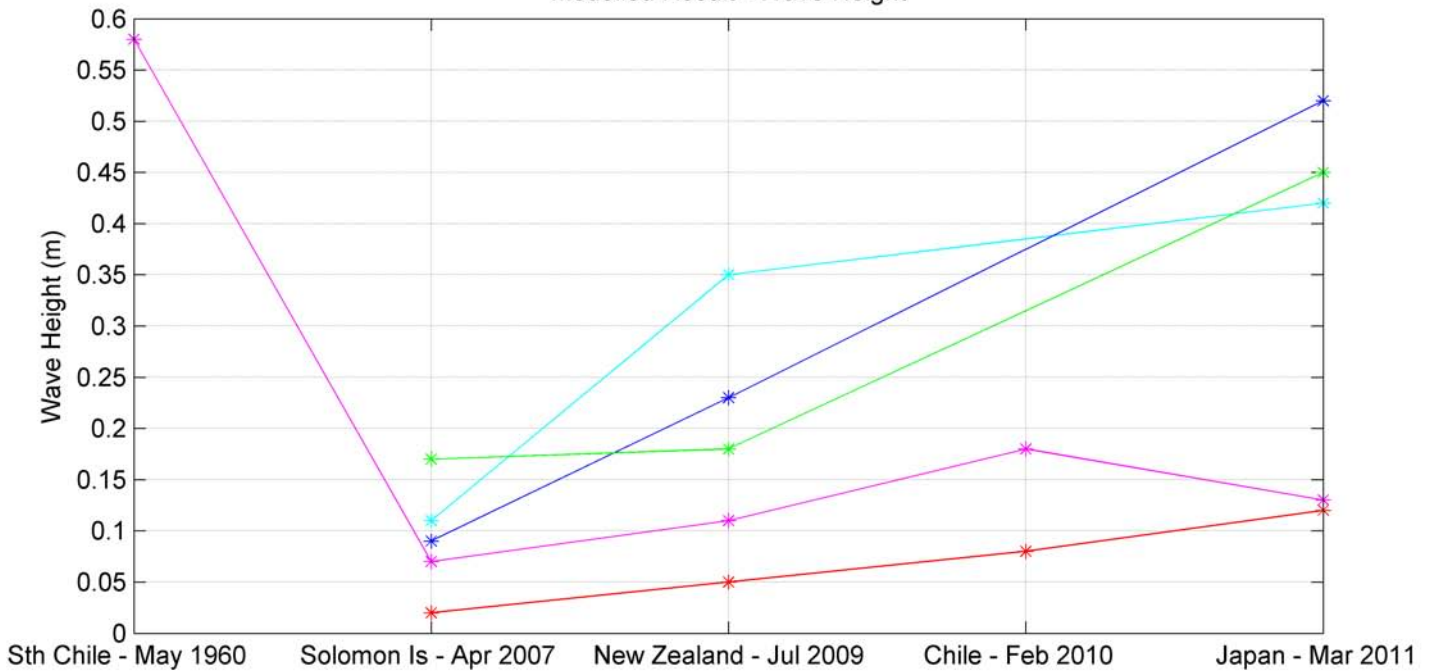




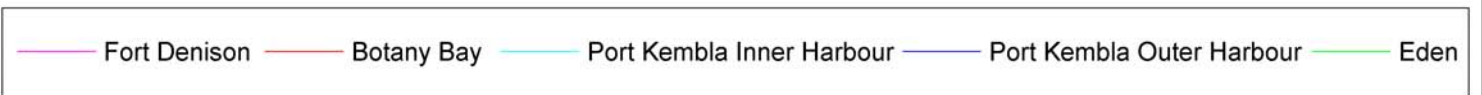
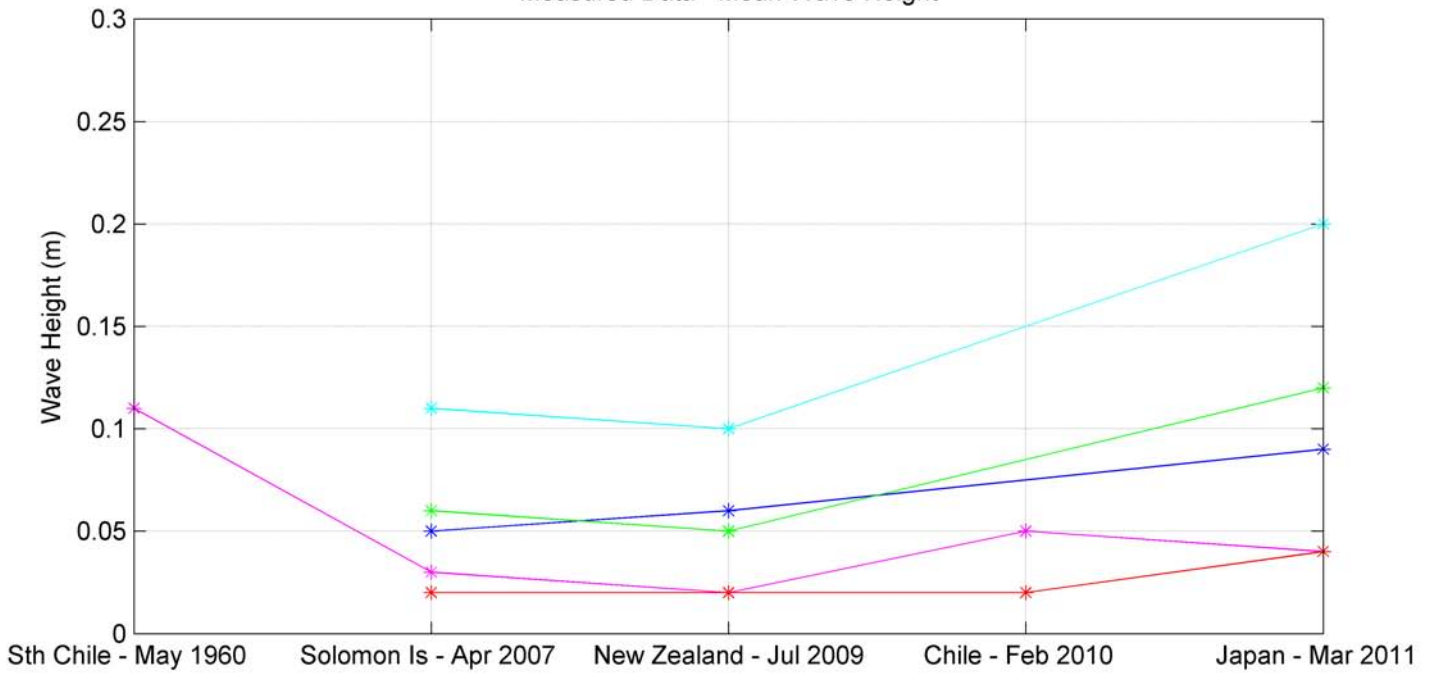
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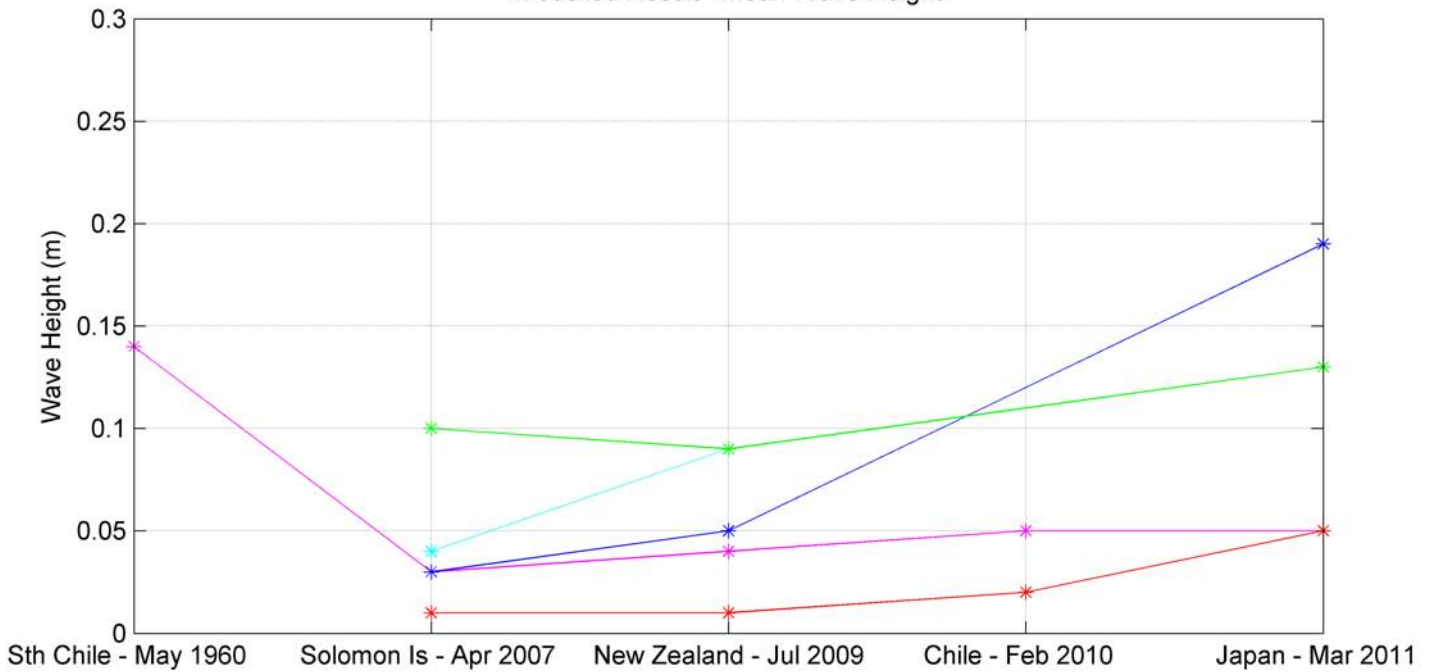
Modelled Result - Wave Height



Measured Data - Mean Wave Height

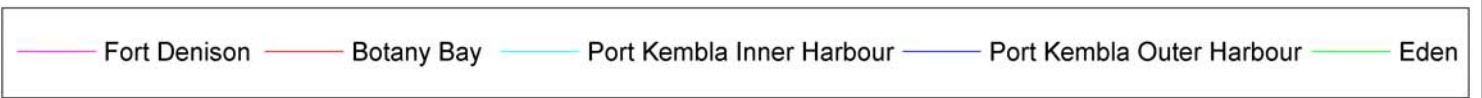
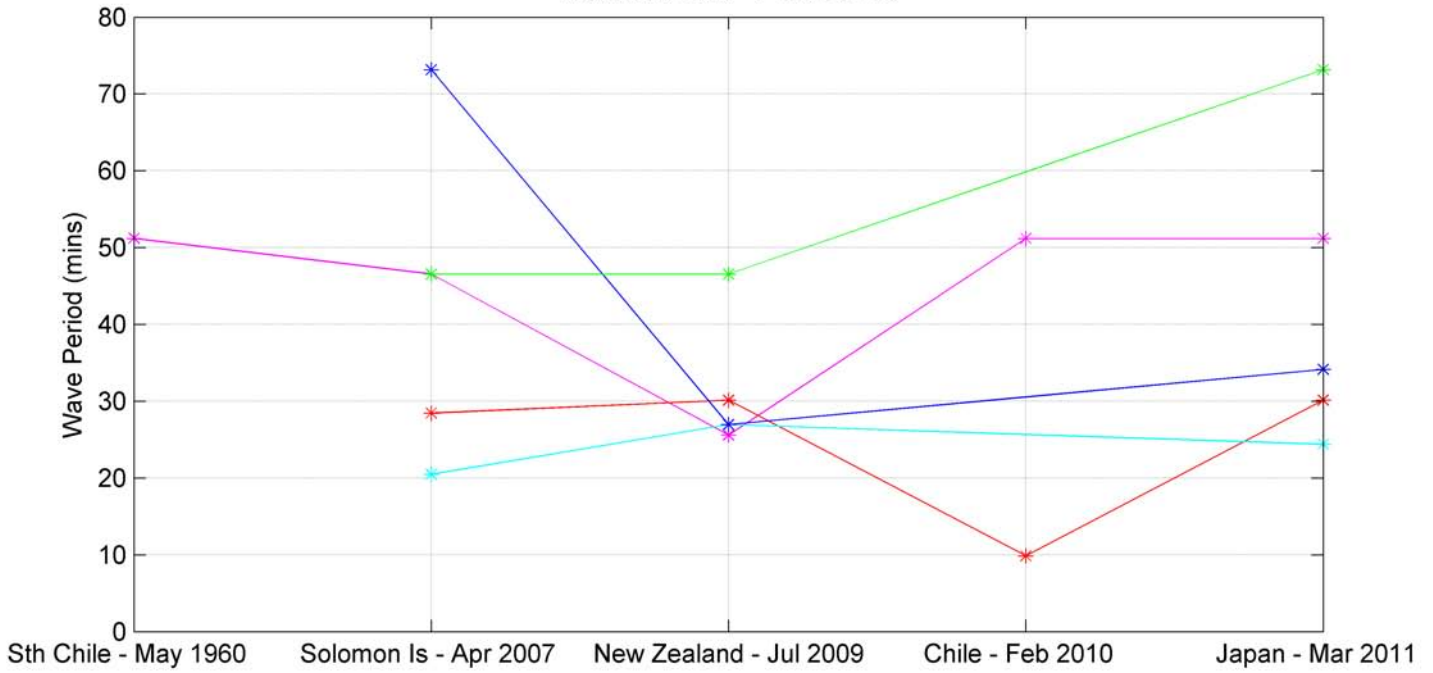


Modelled Result - Mean Wave Height

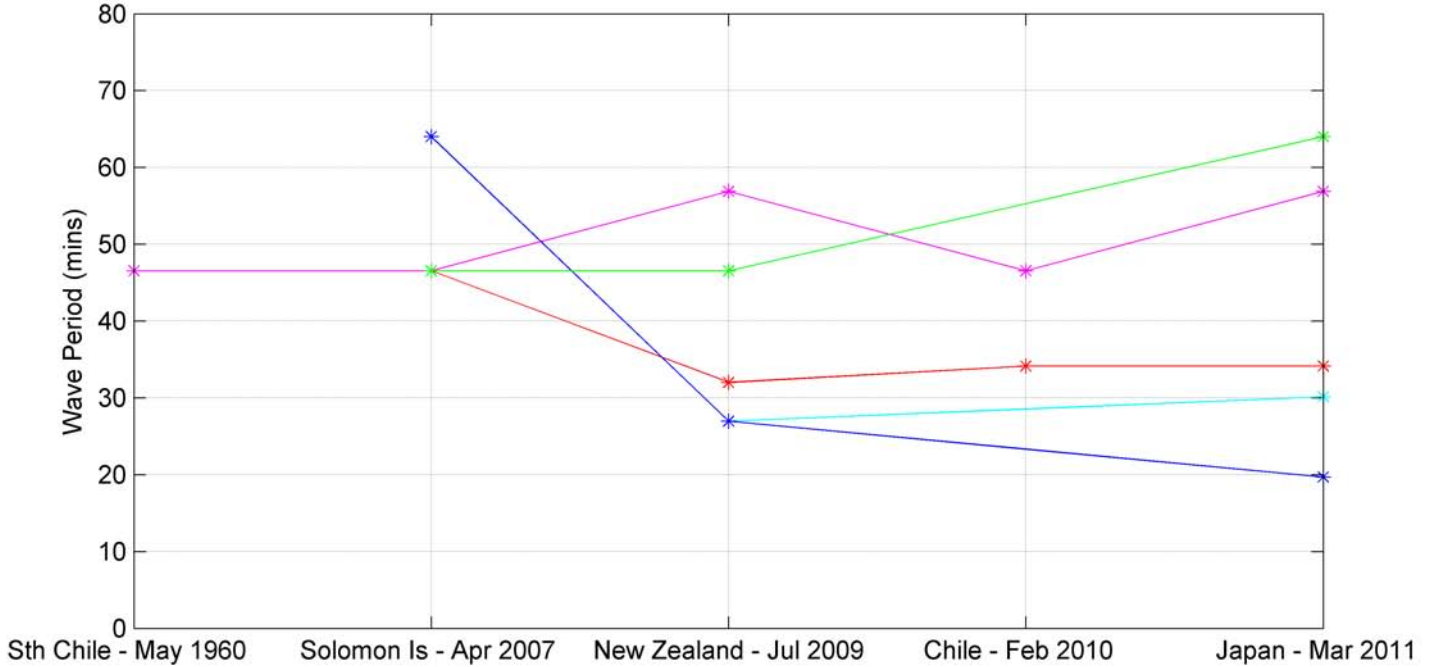




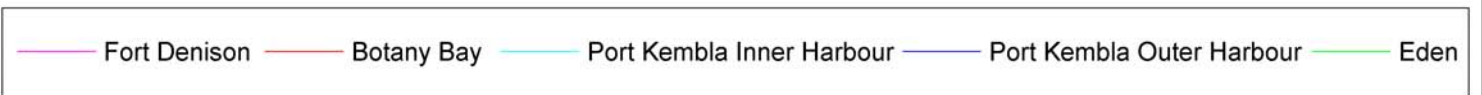
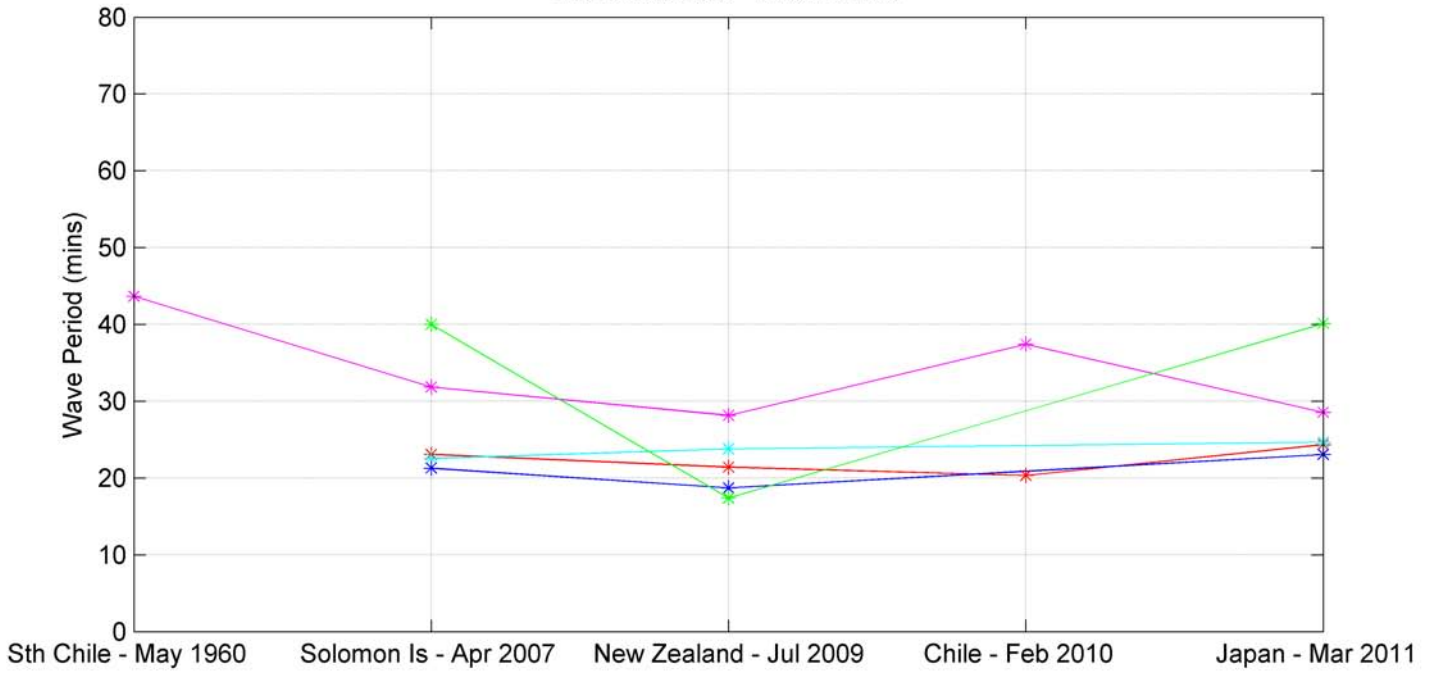
Measured Data - Peak Period



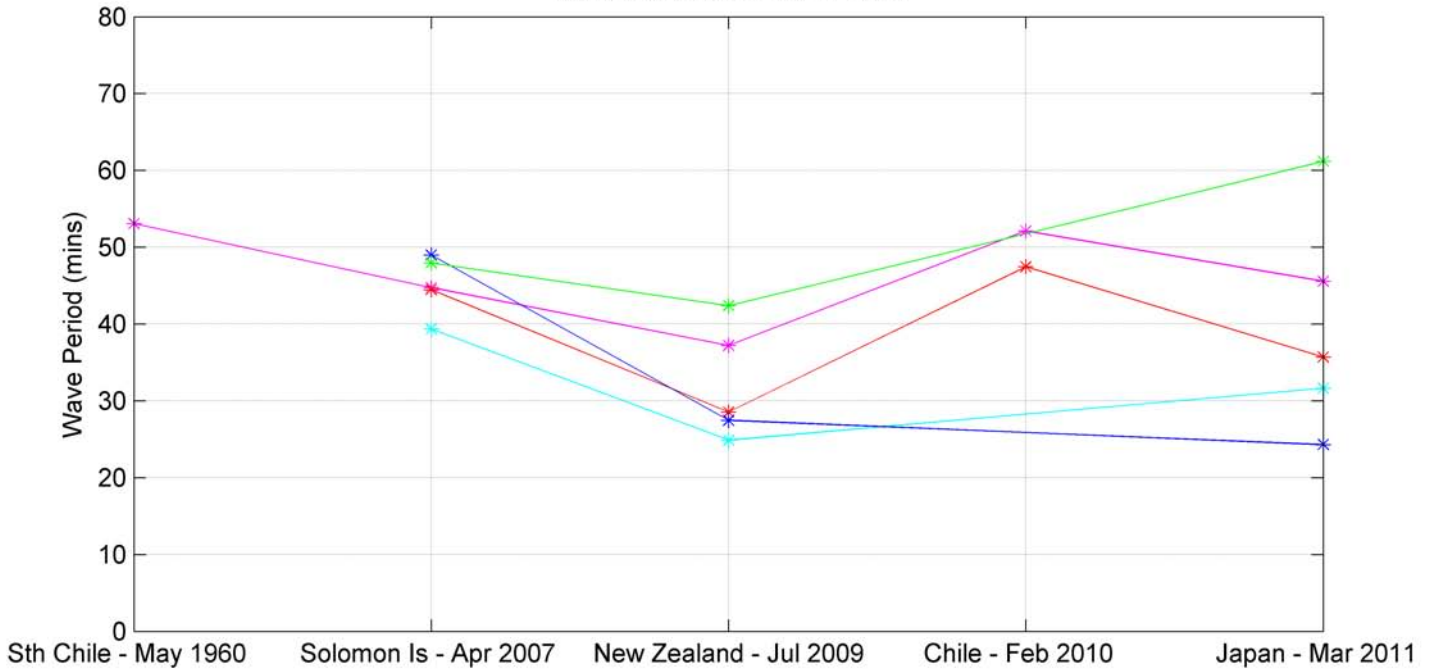
Modelled Result - Peak Period



Measured Data - Mean Period

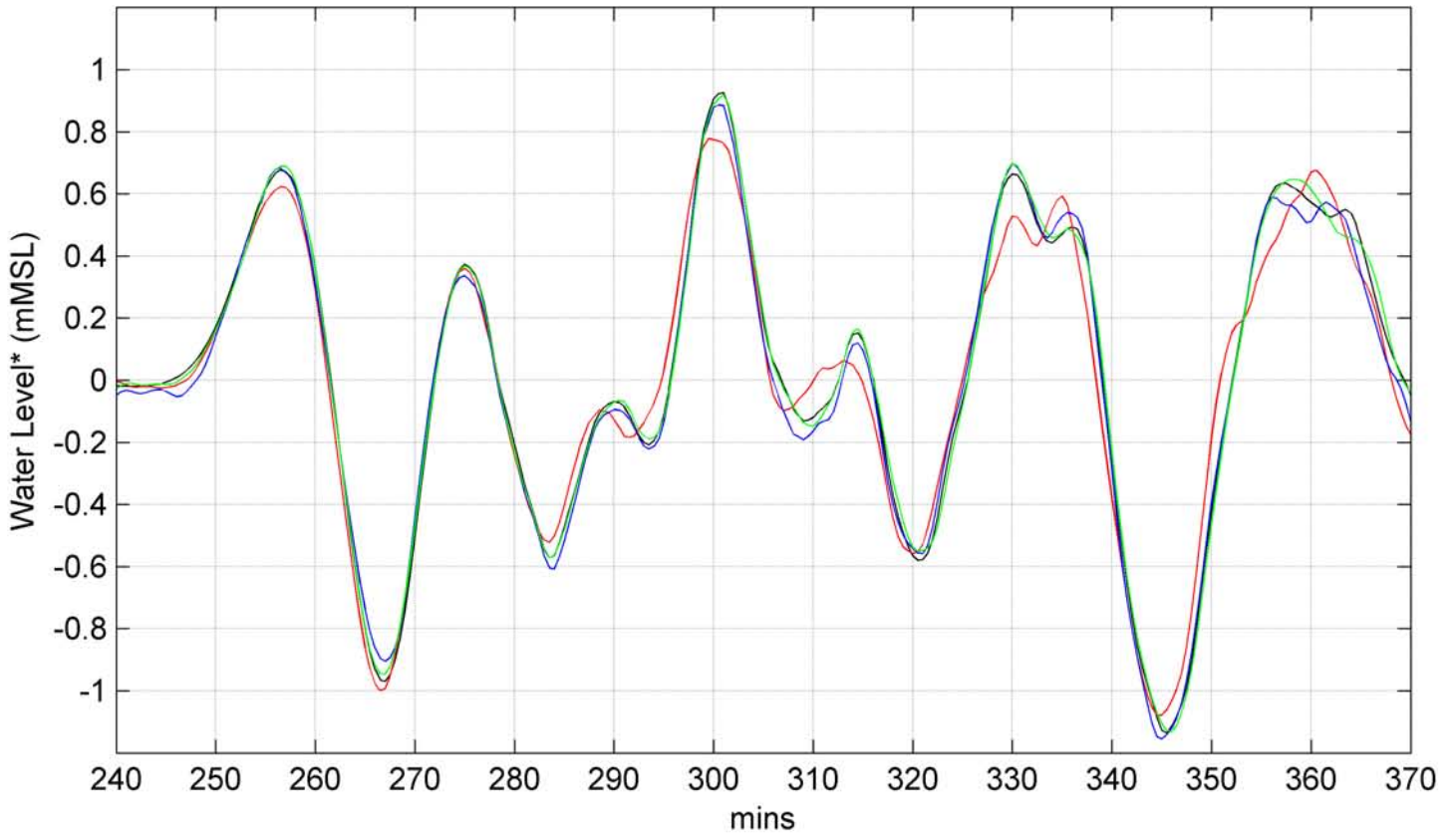


Modelled Result - Mean Period

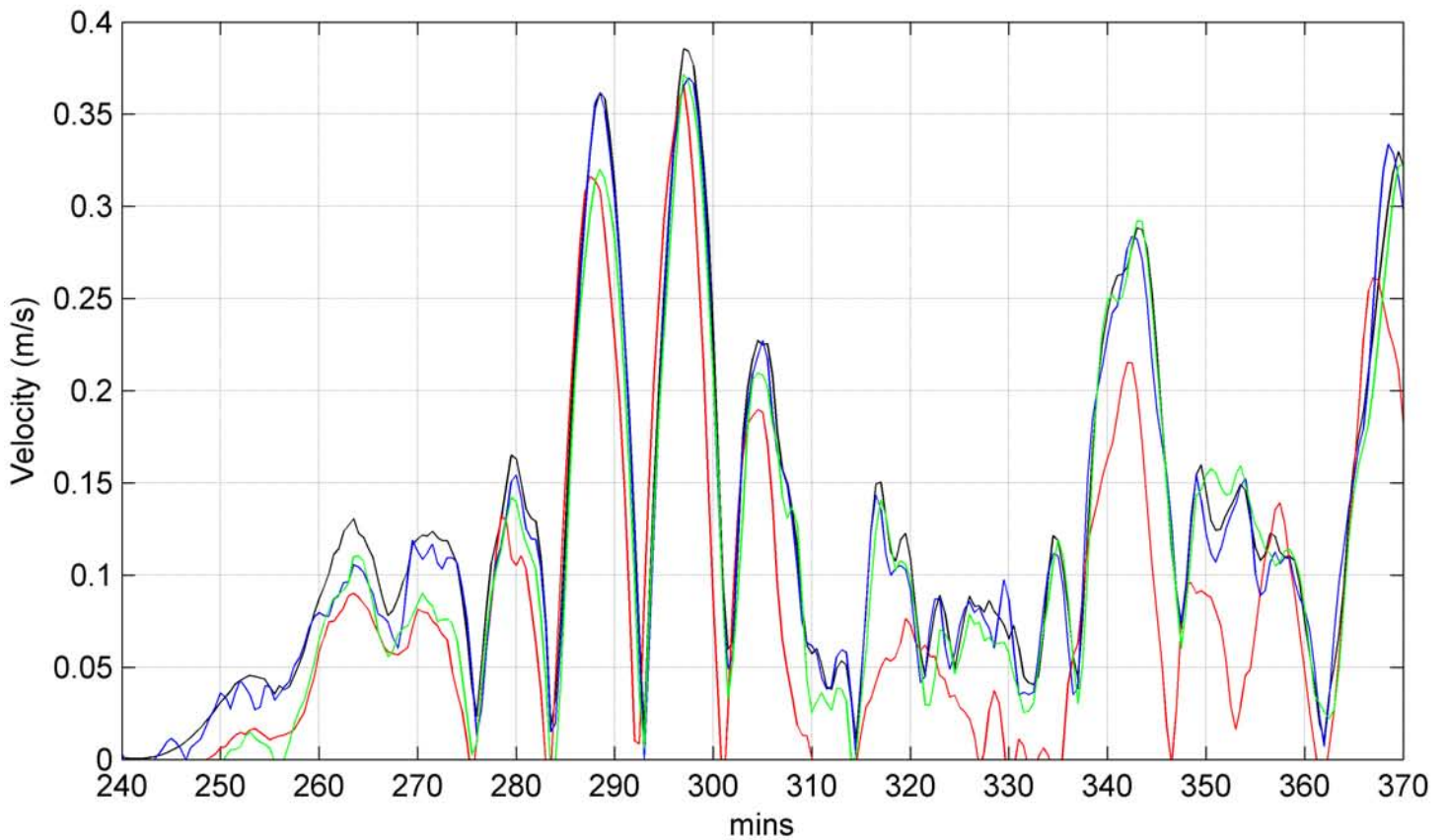


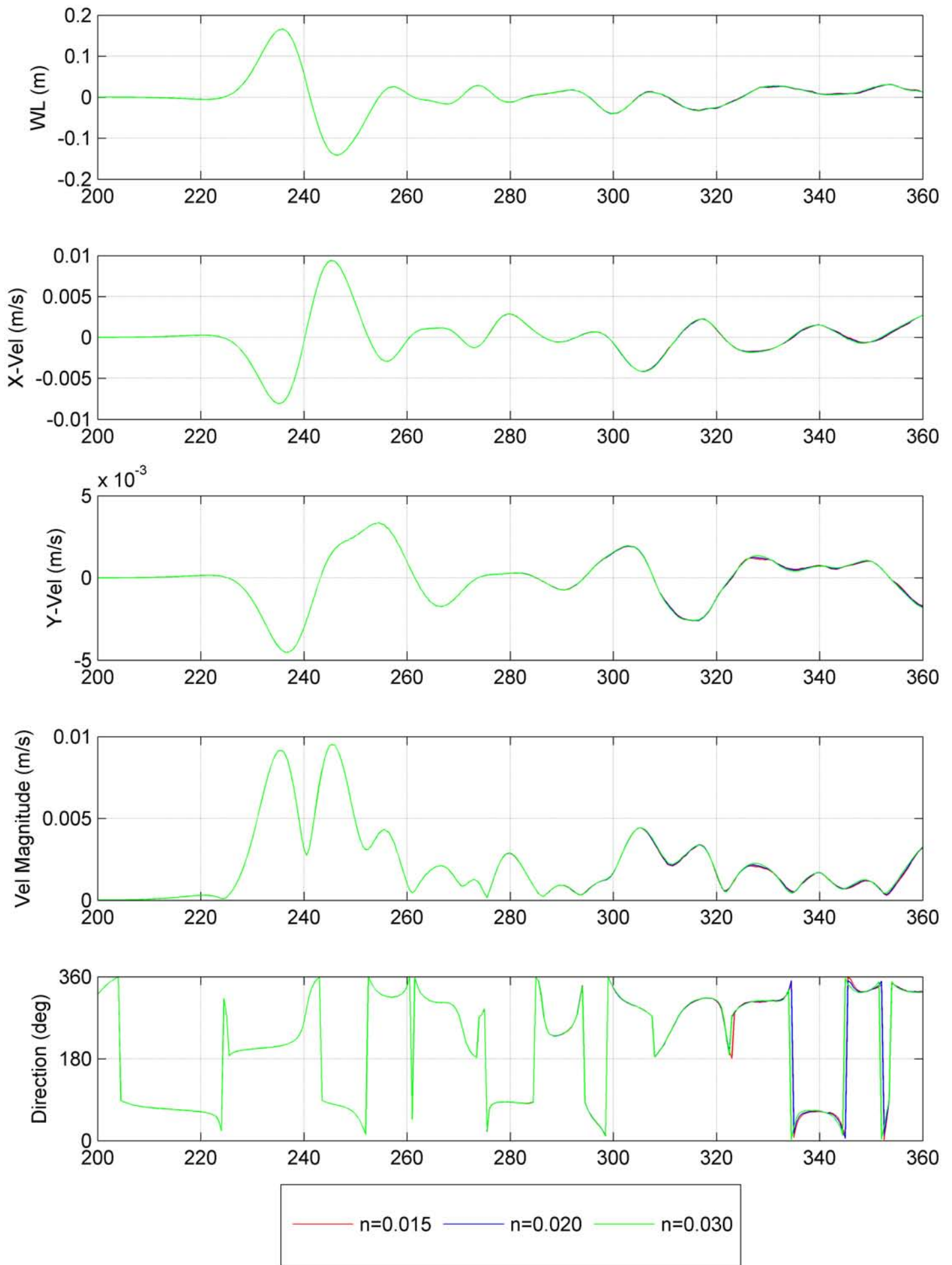


### Tidal Investigation Results

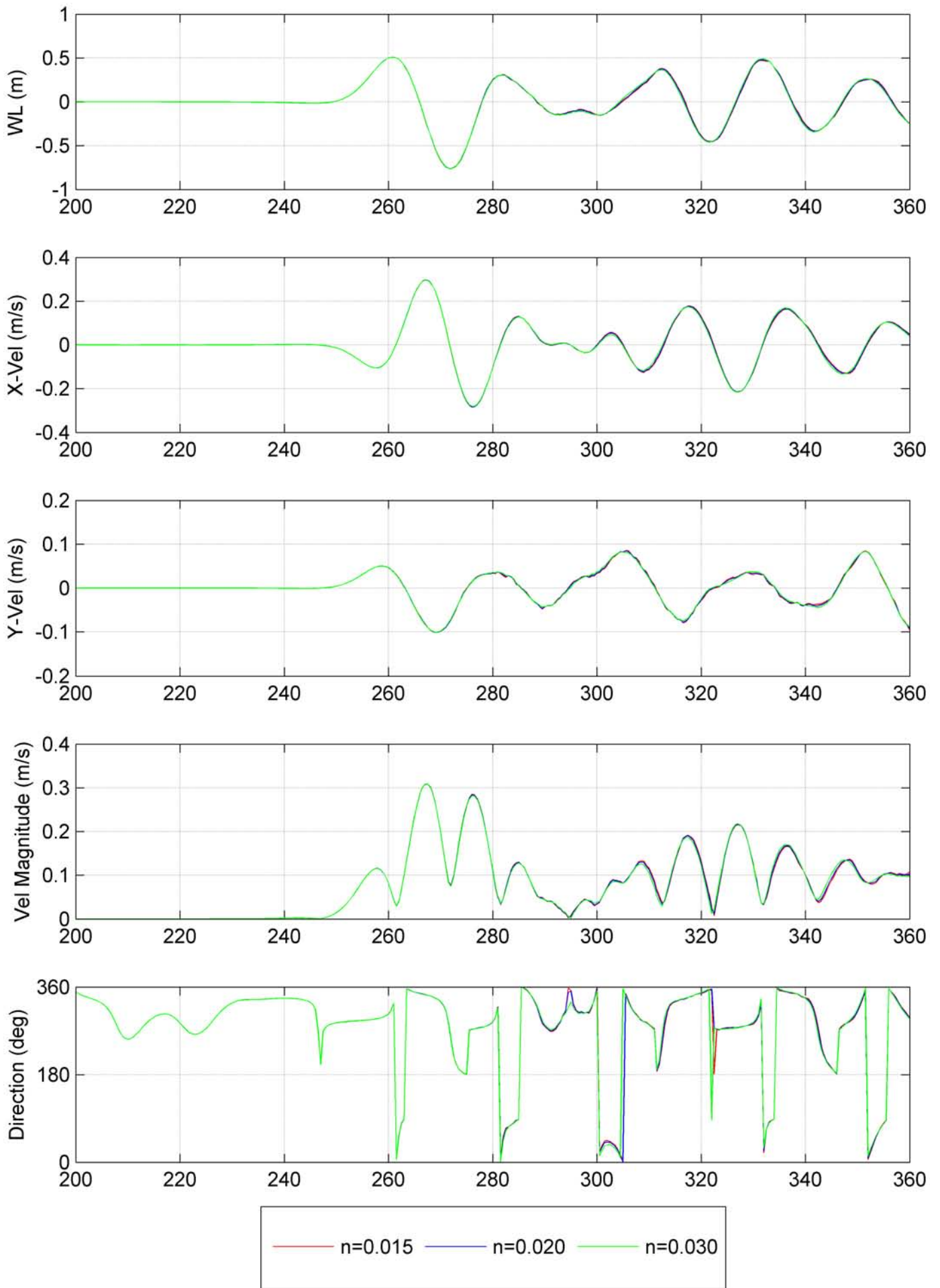


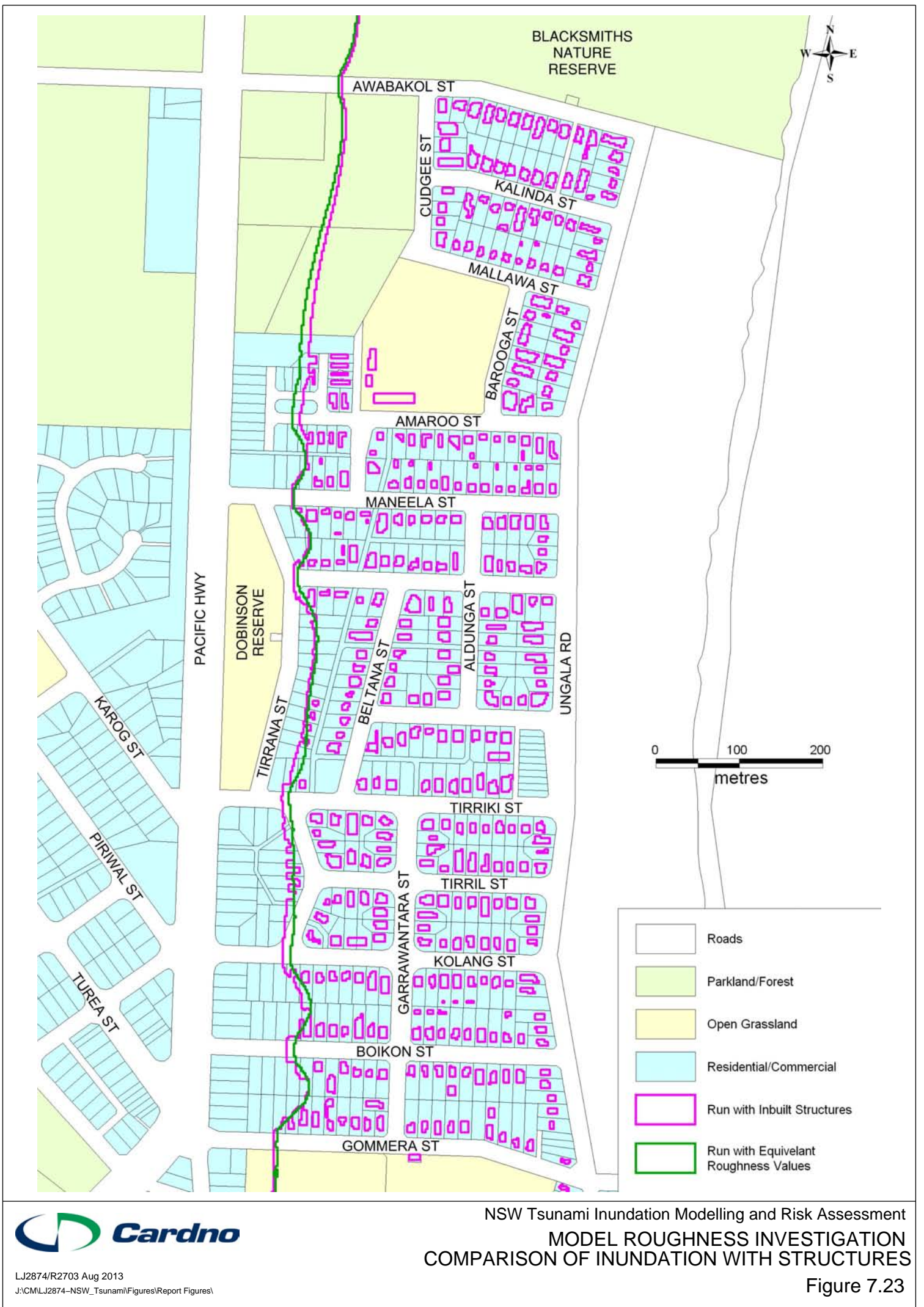
\* Tide Level Extracted from Signal







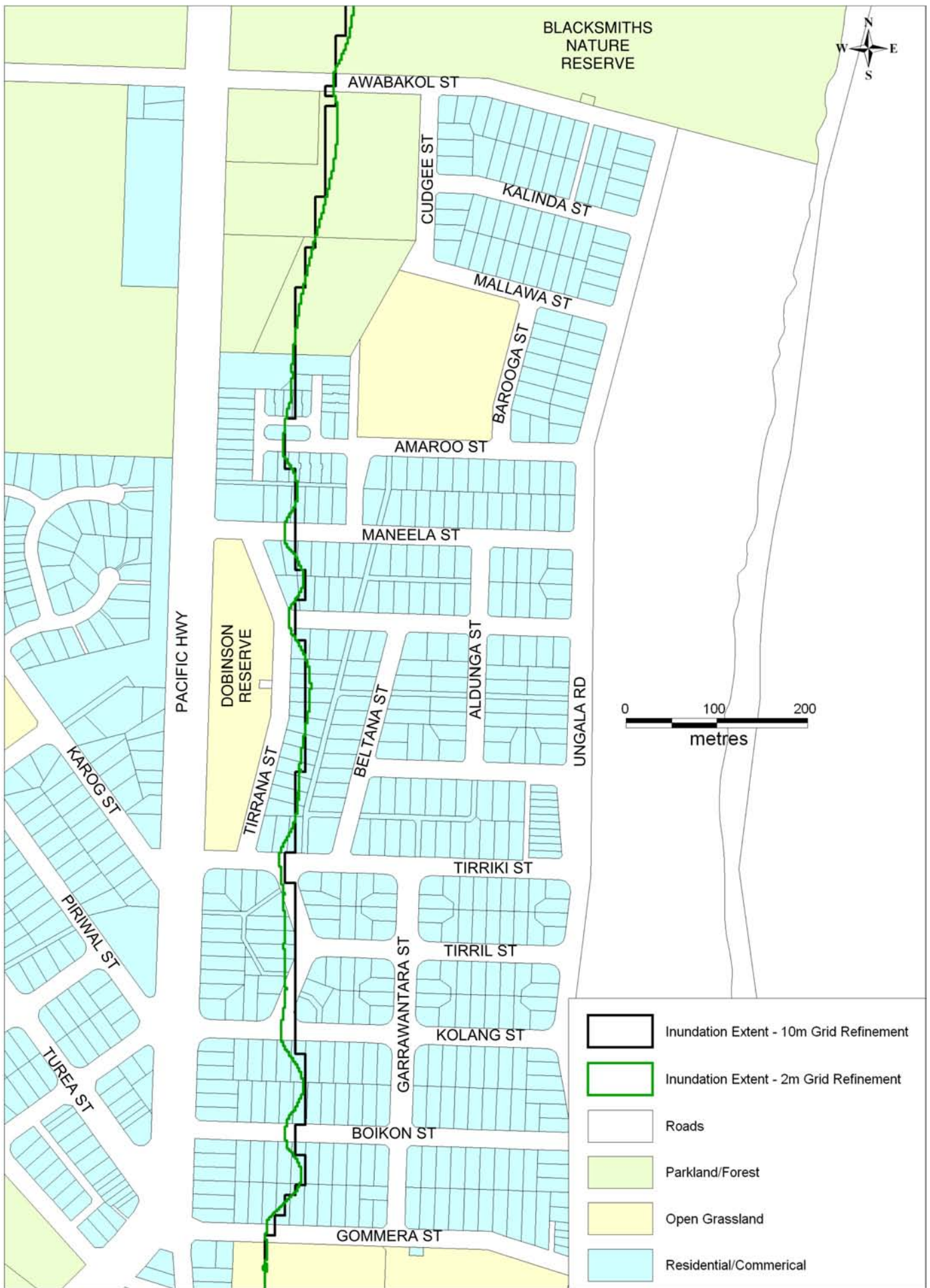






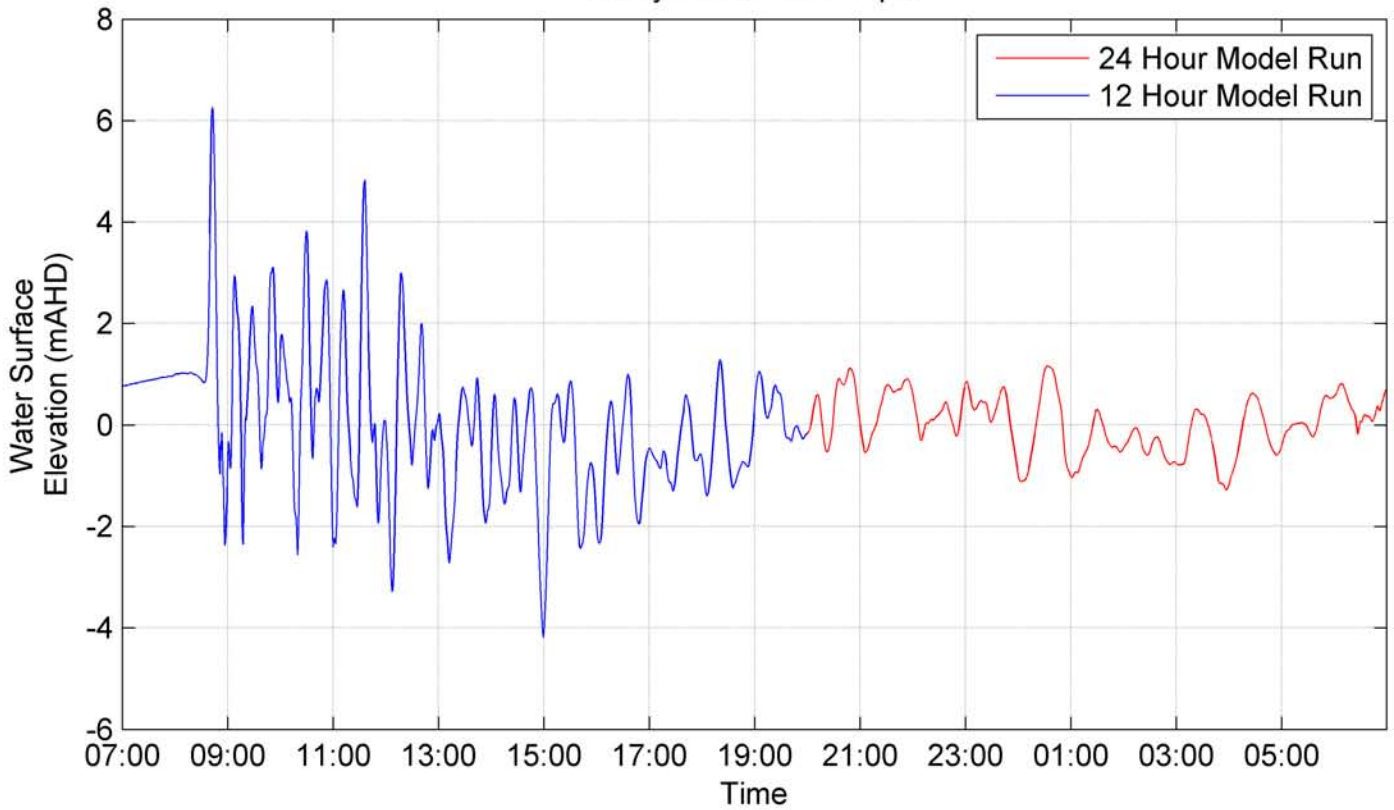




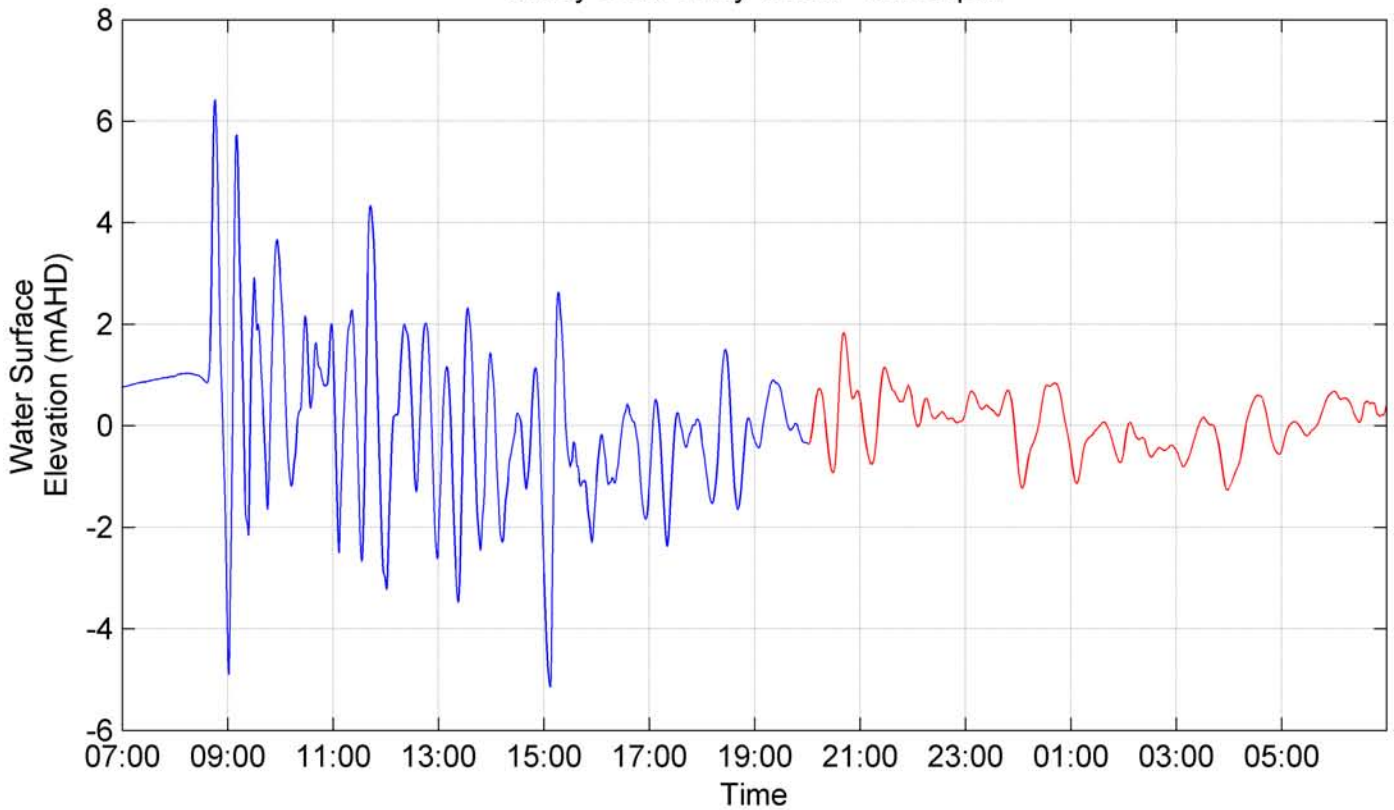




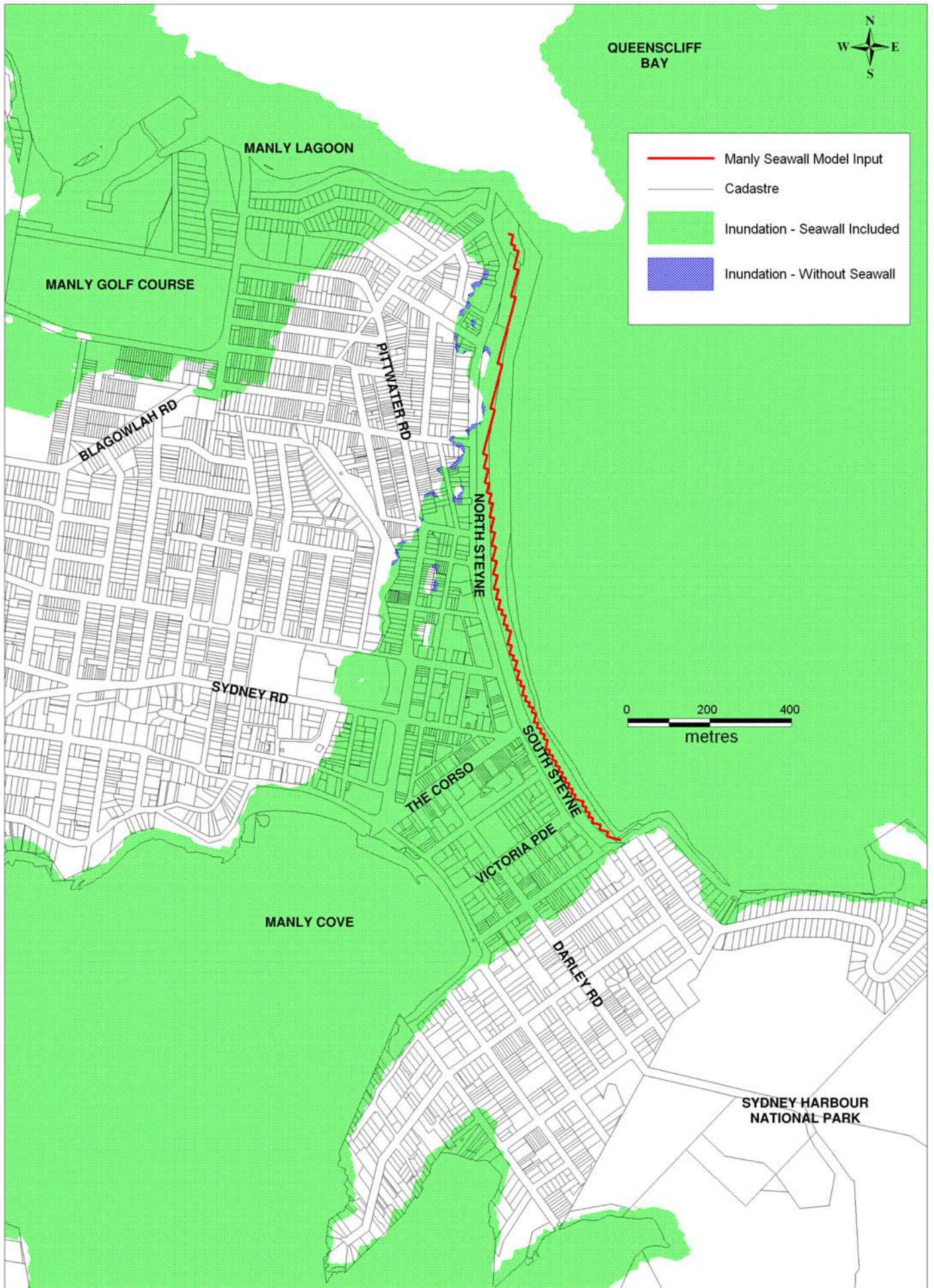
Manly Model System - 10000 years ARI  
Source Zone: Puysegur - Arriving at HAT  
Manly Beach - 5m Depth



Manly Cove Ferry Wharf - 5m Depth



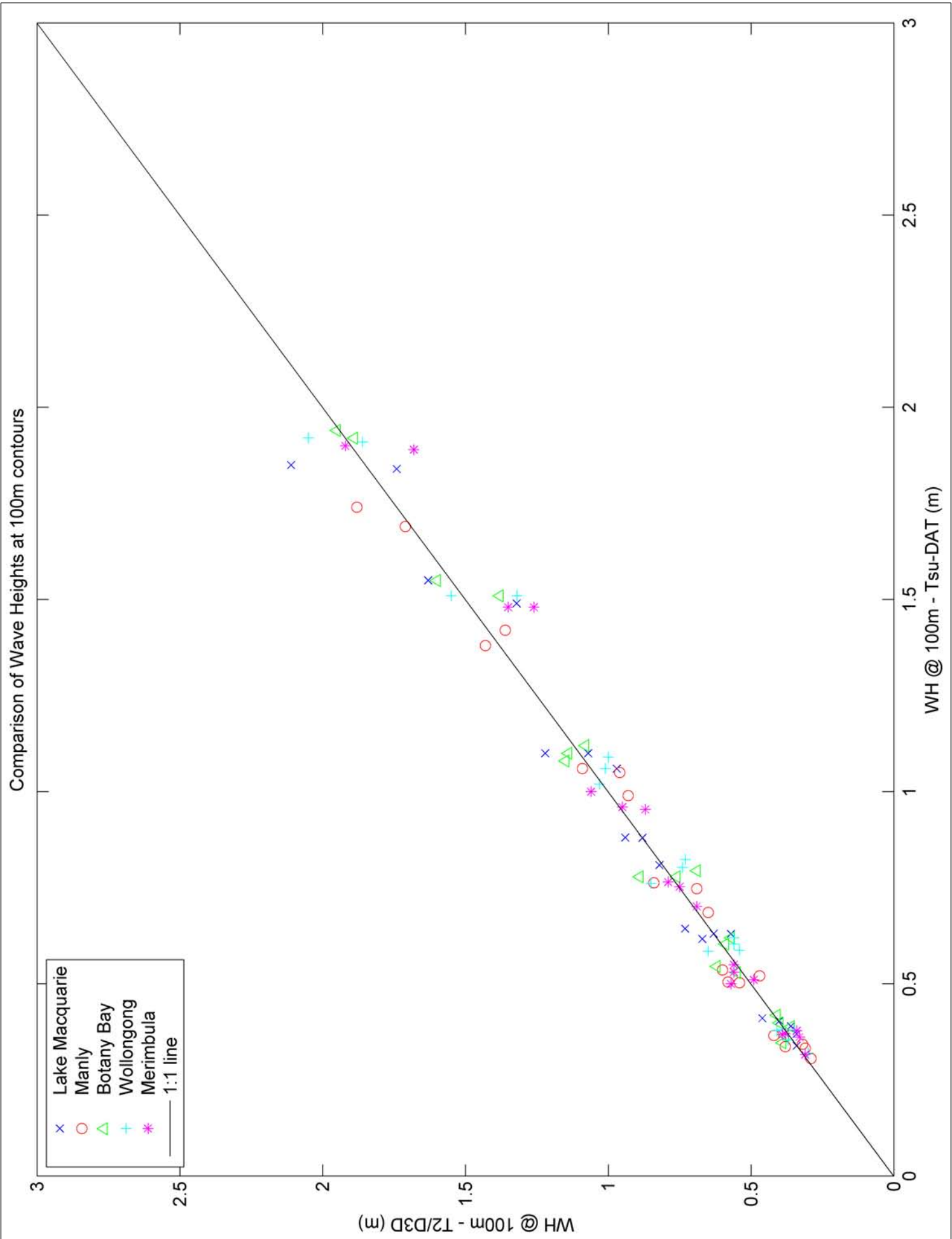




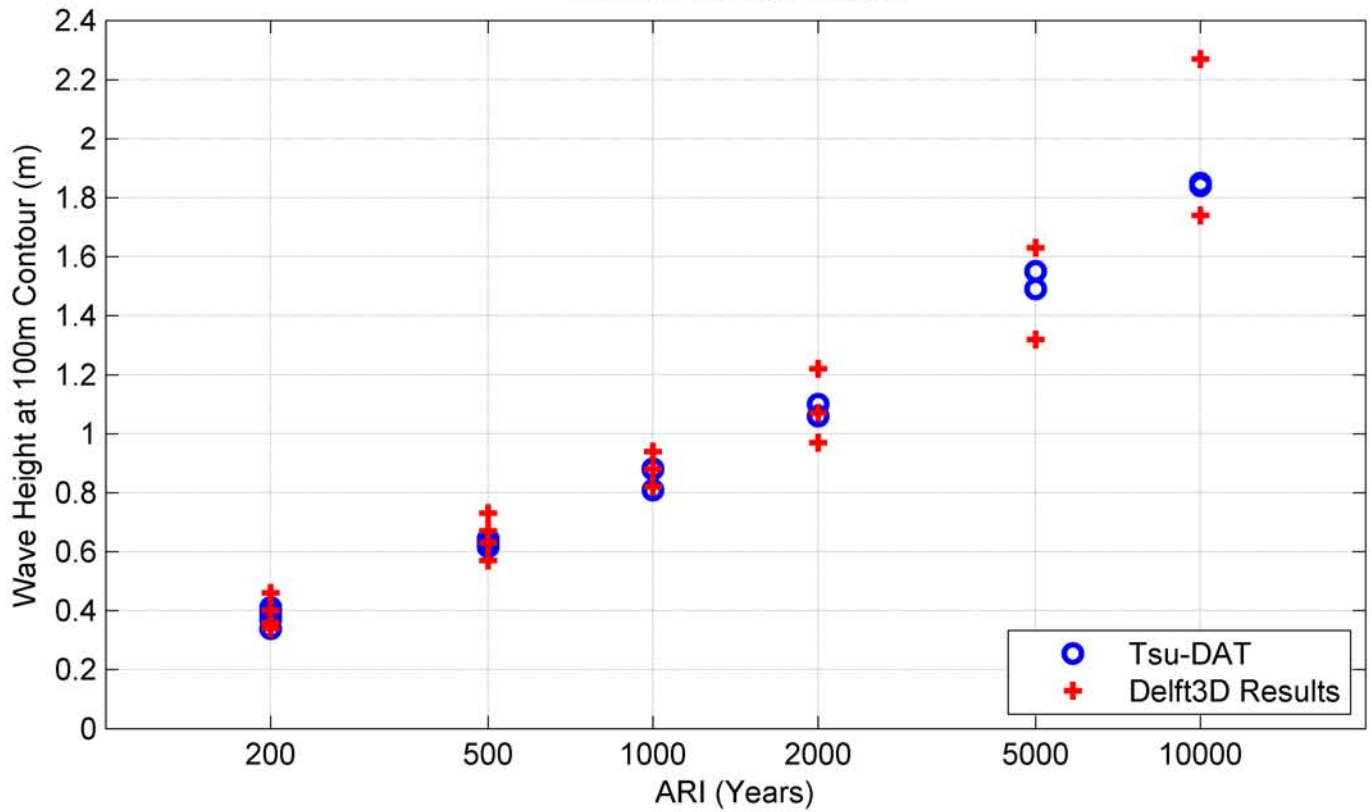
NSW Tsunami Inundation Modelling and Risk Assessment  
**IMPACT OF MANLY SEAWALL**  
**MANLY – 10,000 YR ARI – SOURCE ZONE NEW HEBRIDES**

Figure 7.27

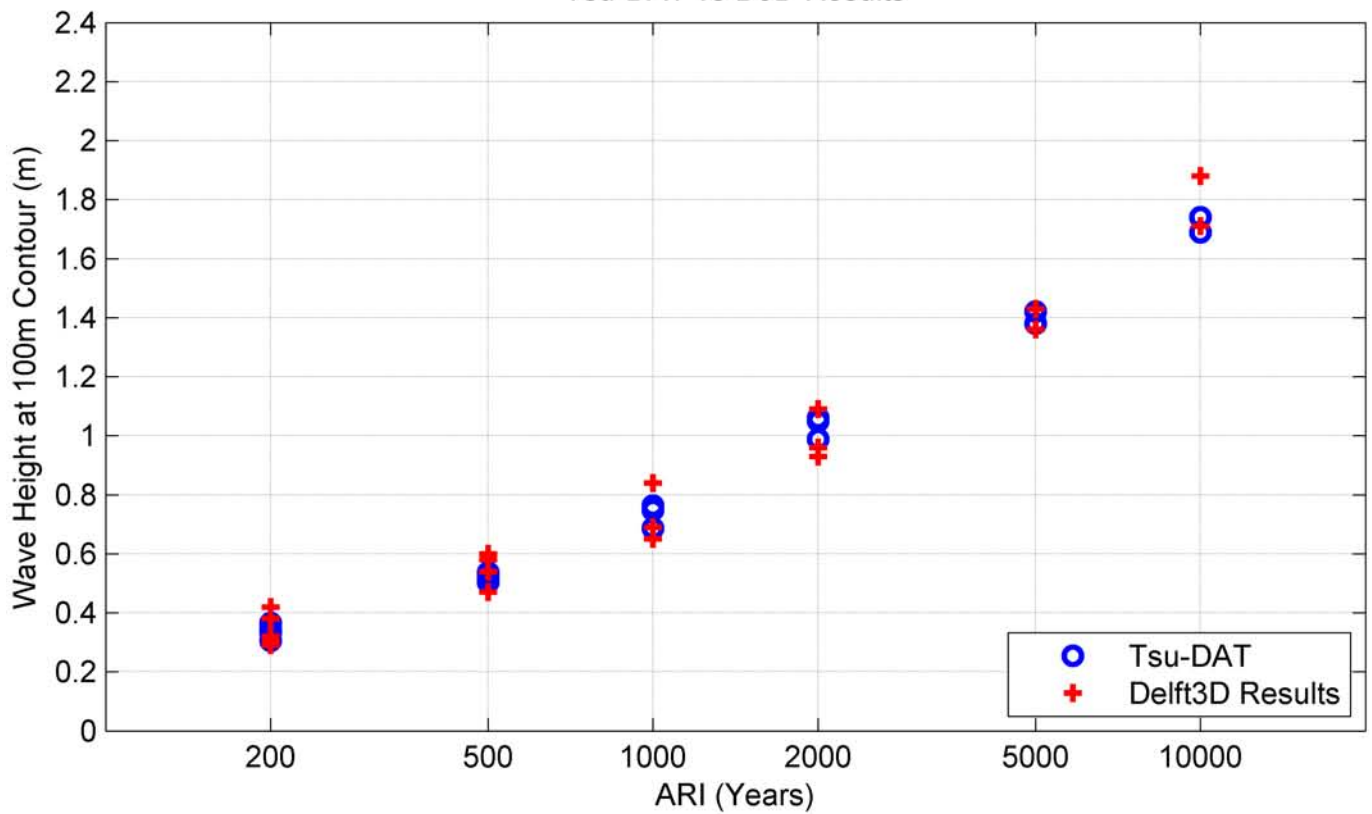




Swansea Grid System  
Wave Height at 100m Contour  
Tsu-DAT vs D3D Results

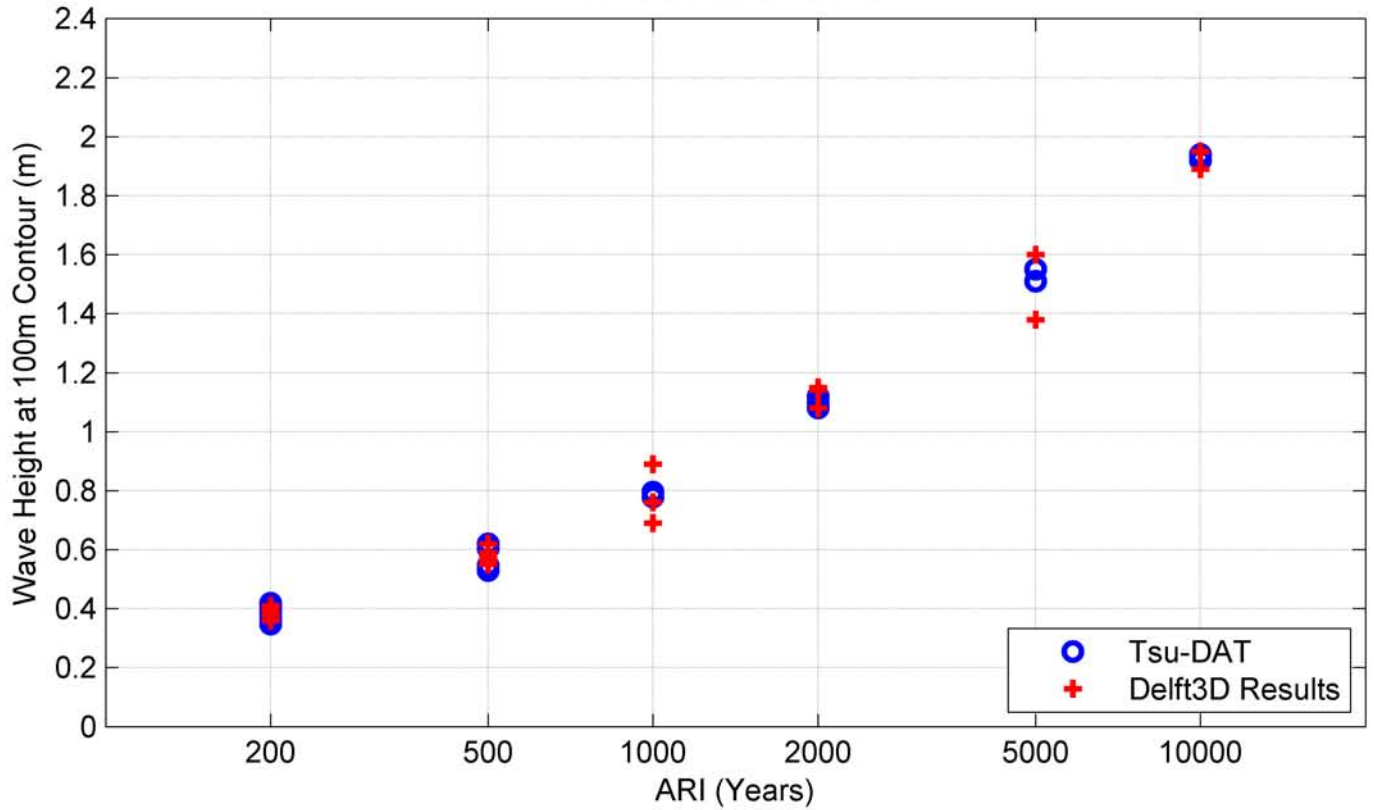


Manly Grid System  
Wave Height at 100m Contour  
Tsu-DAT vs D3D Results

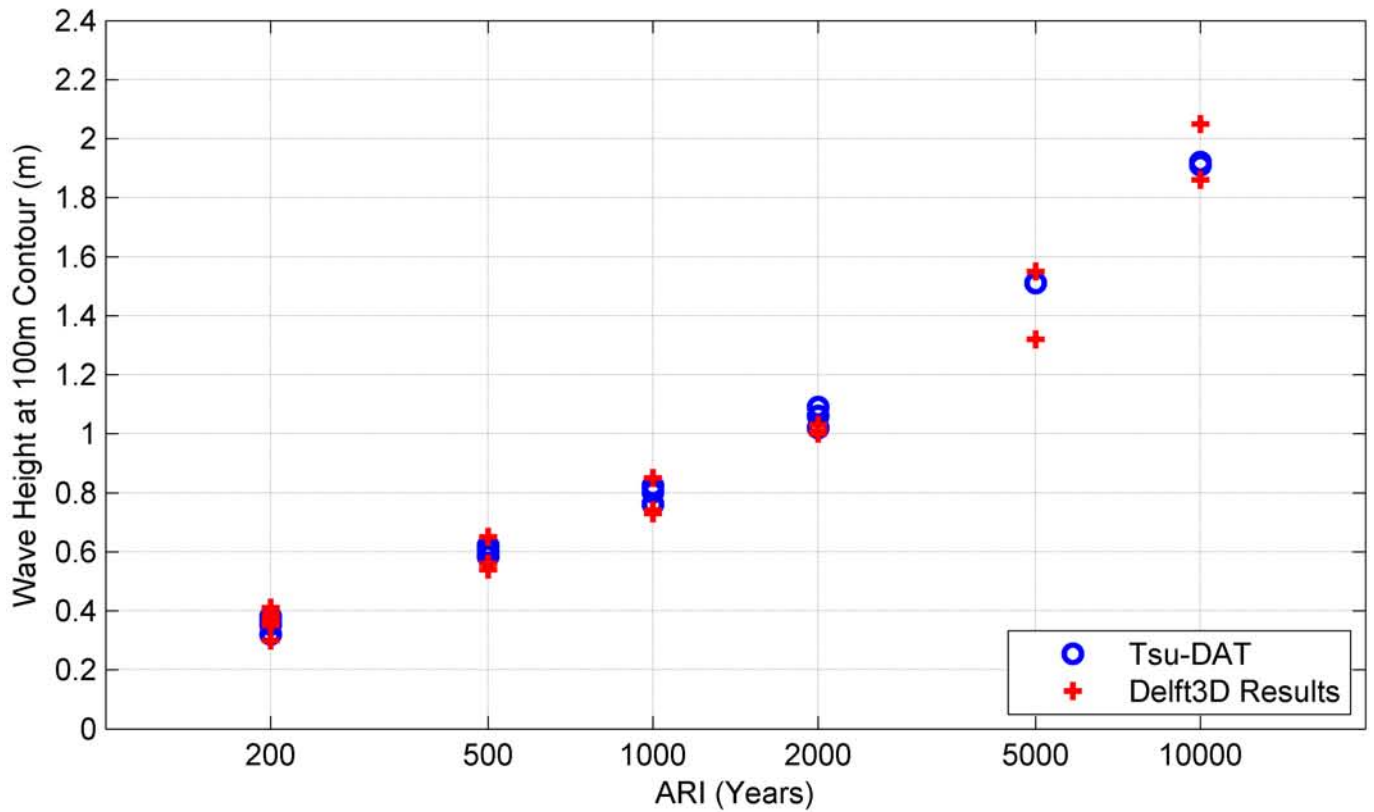




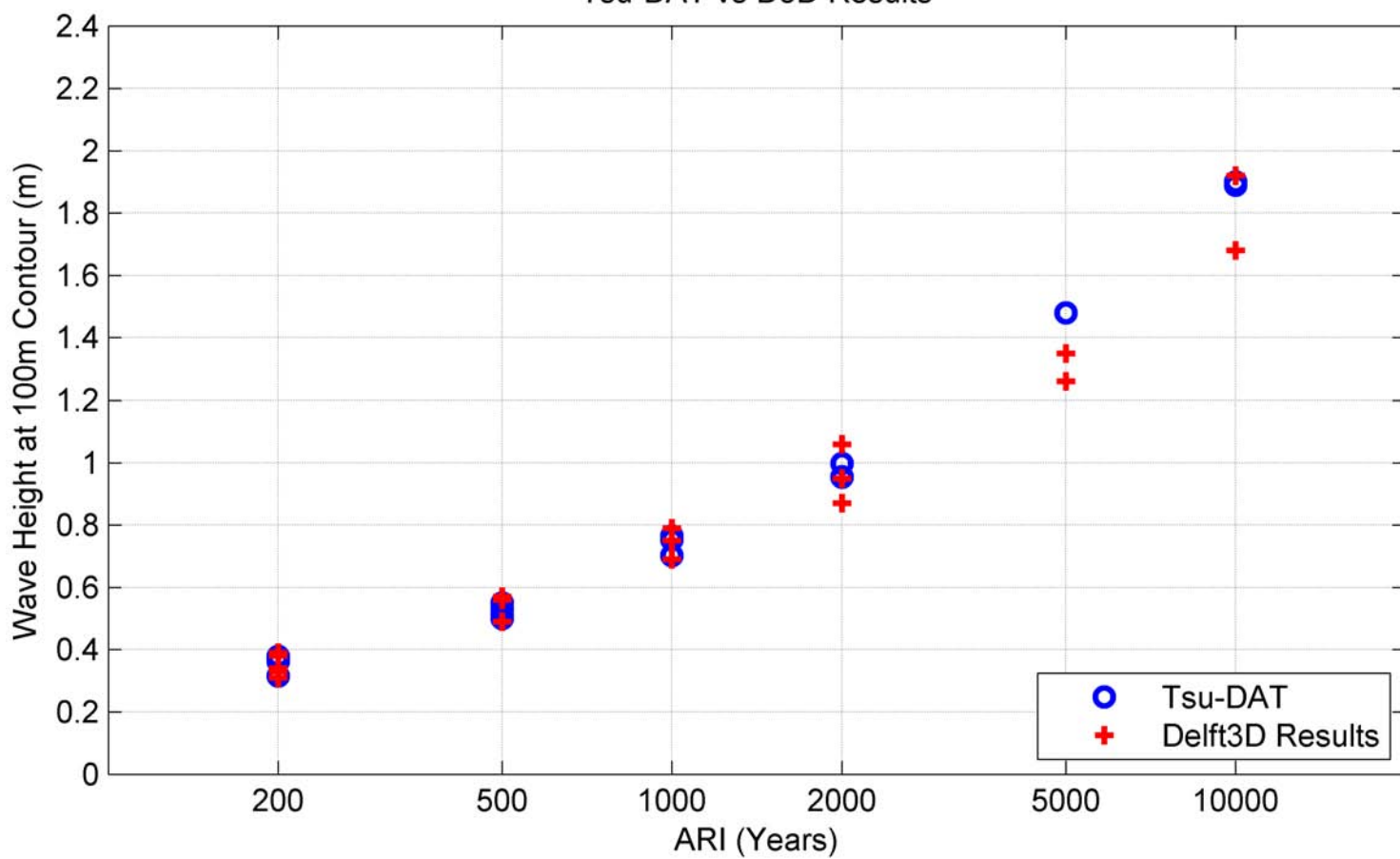
Botany Bay Grid System  
Wave Height at 100m Contour  
Tsu-DAT vs D3D Results



Wollongong Grid System  
Wave Height at 100m Contour  
Tsu-DAT vs D3D Results



Merimbula Grid System  
Wave Height at 100m Contour  
Tsu-DAT vs D3D Results





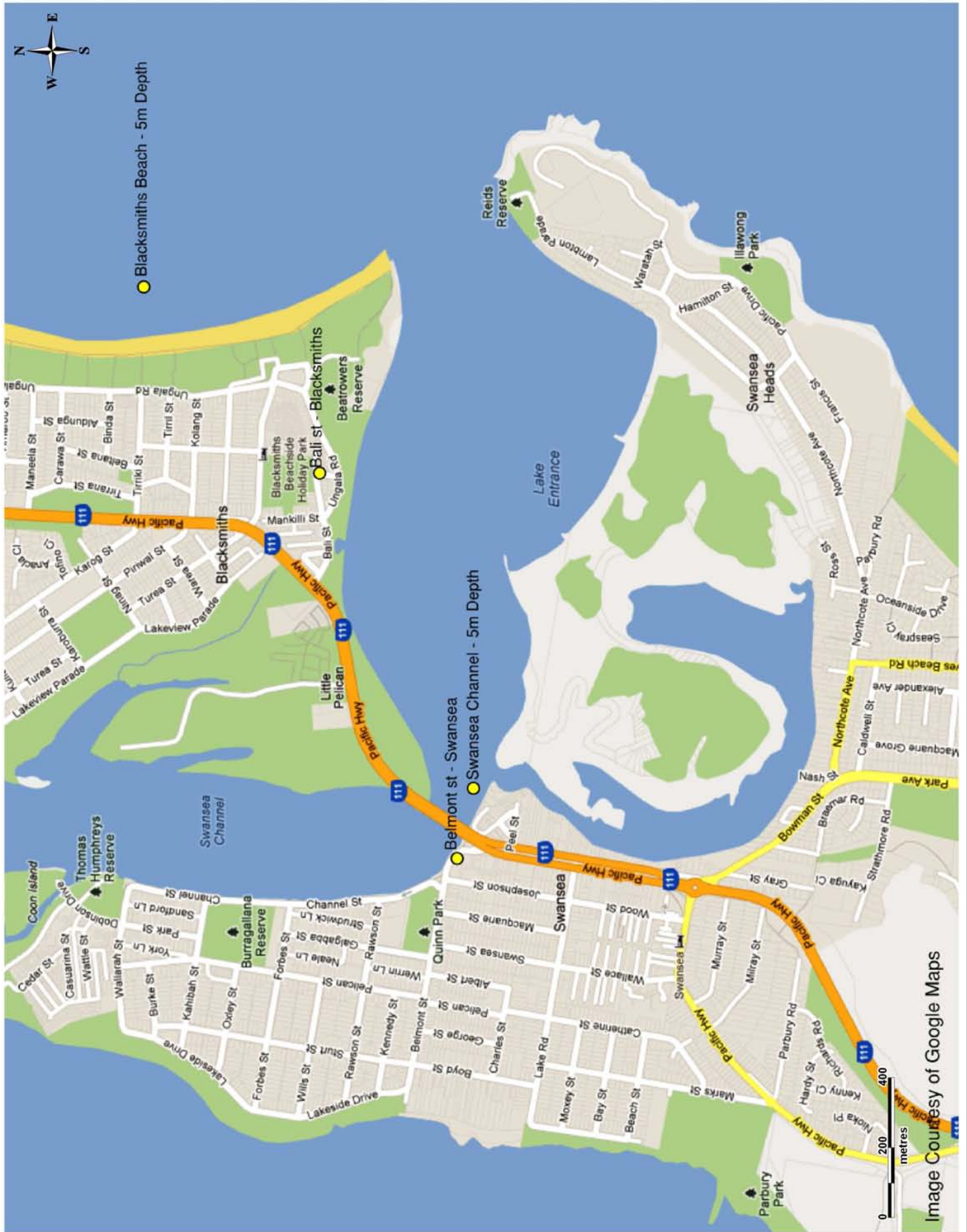








Image Courtesy of Google Maps

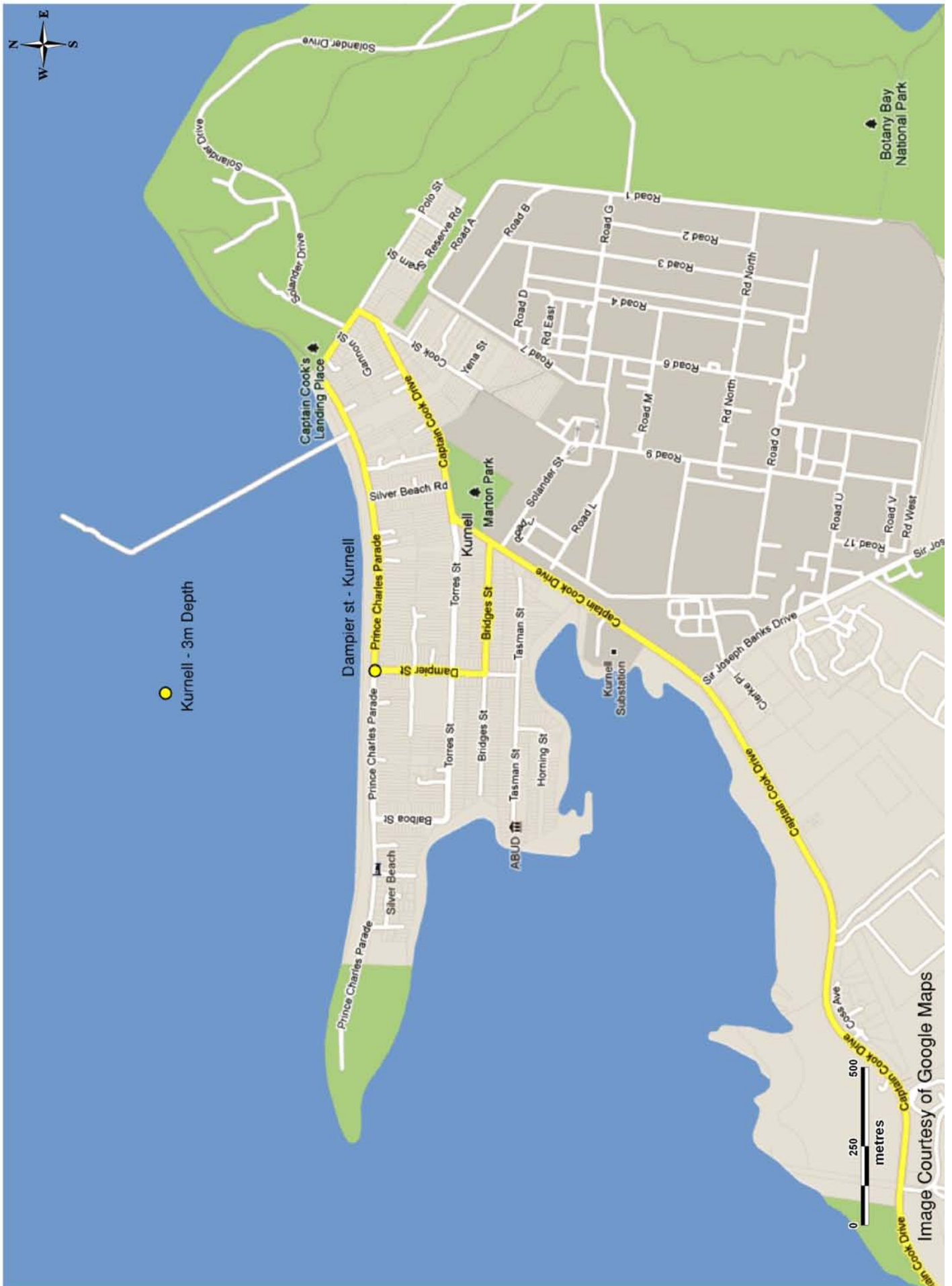
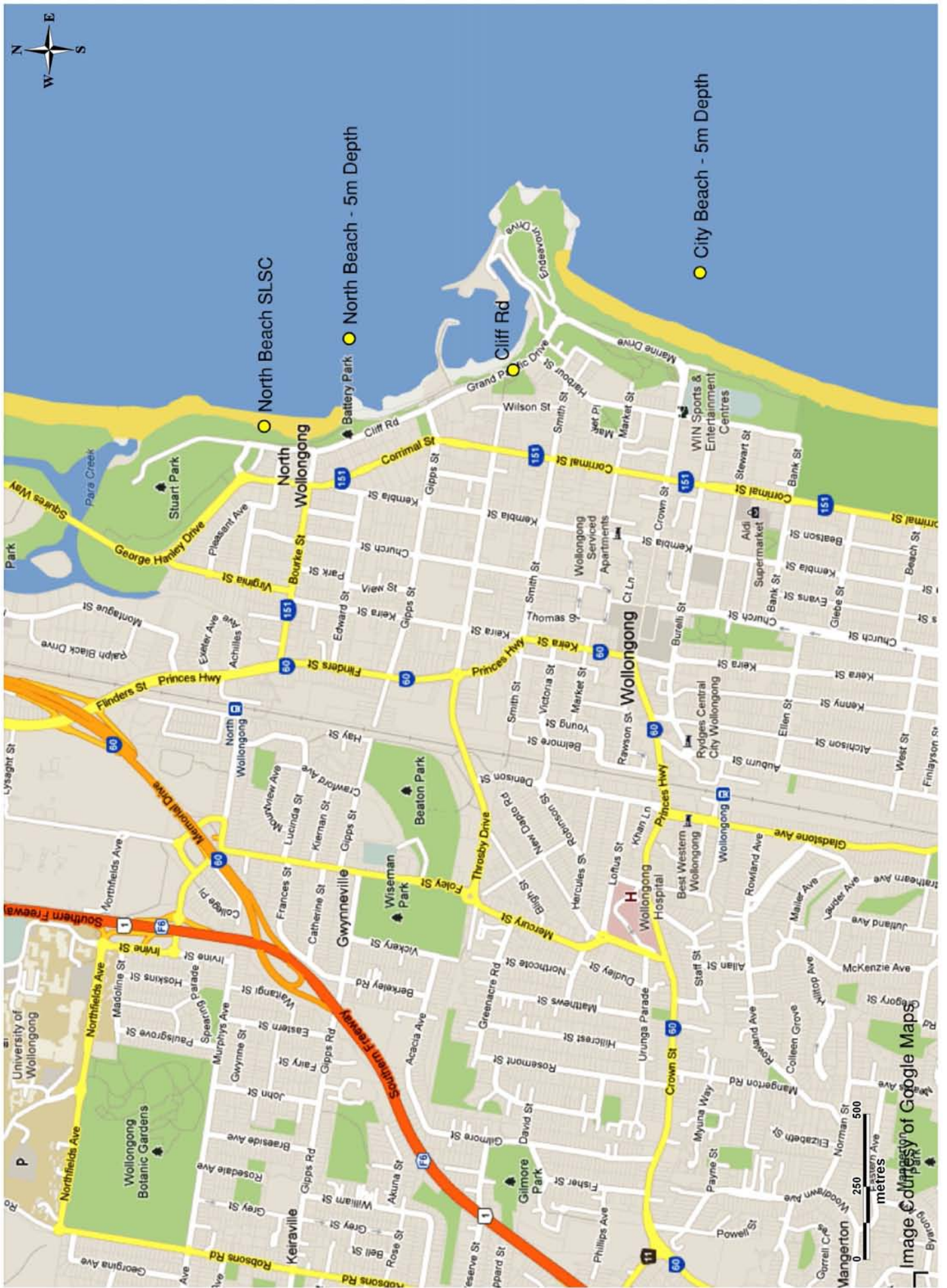
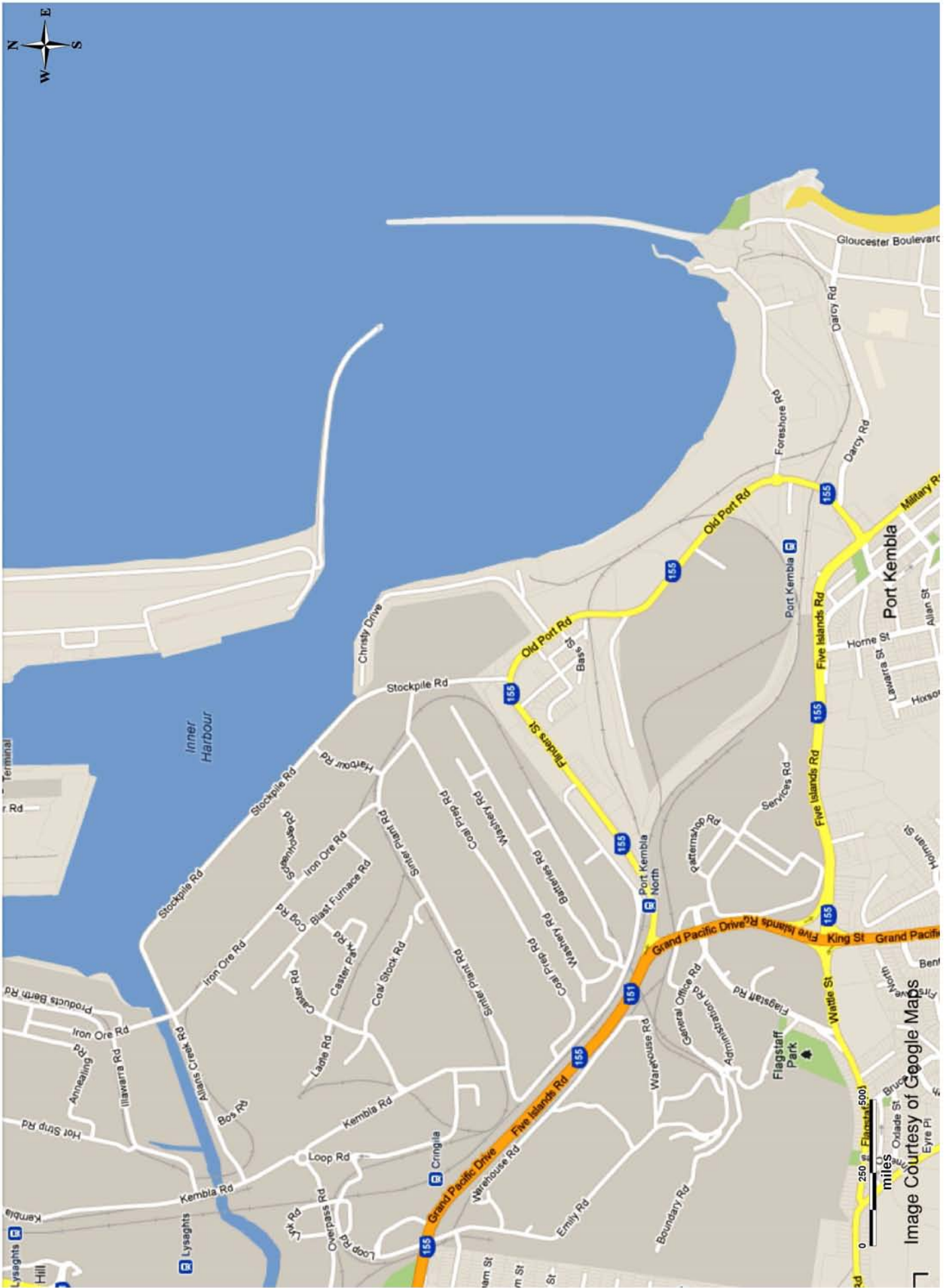


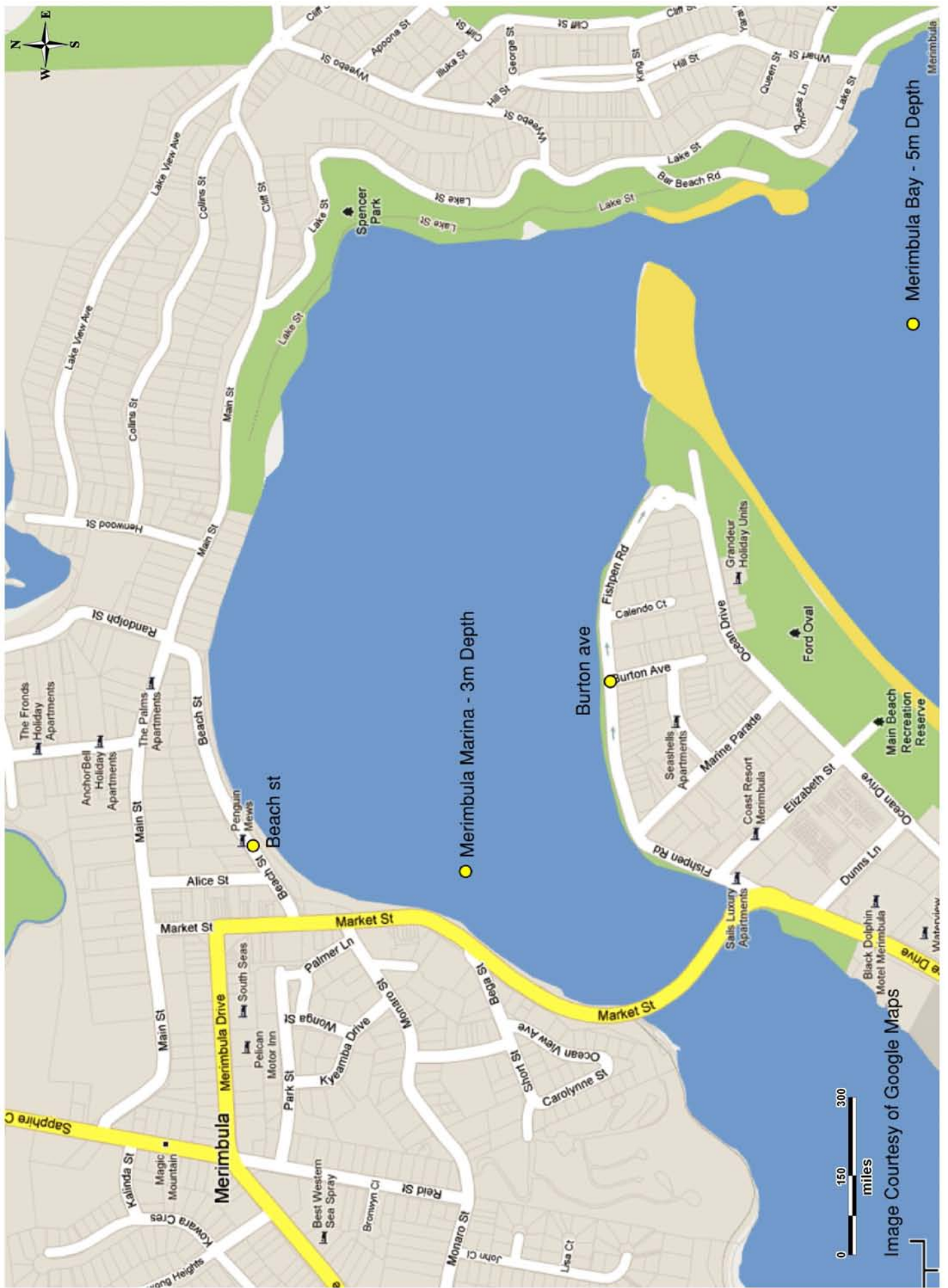
Image Courtesy of Google Maps



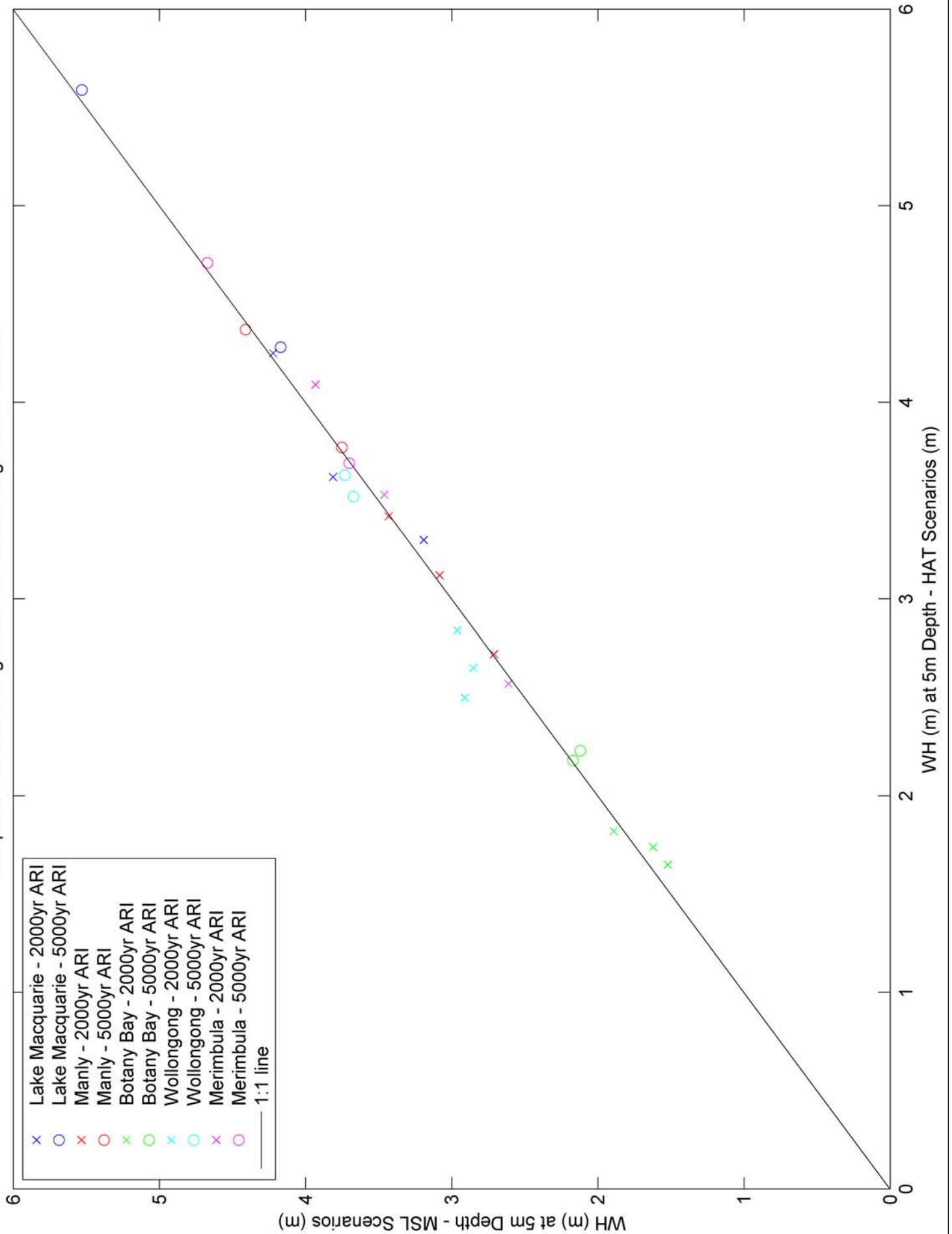






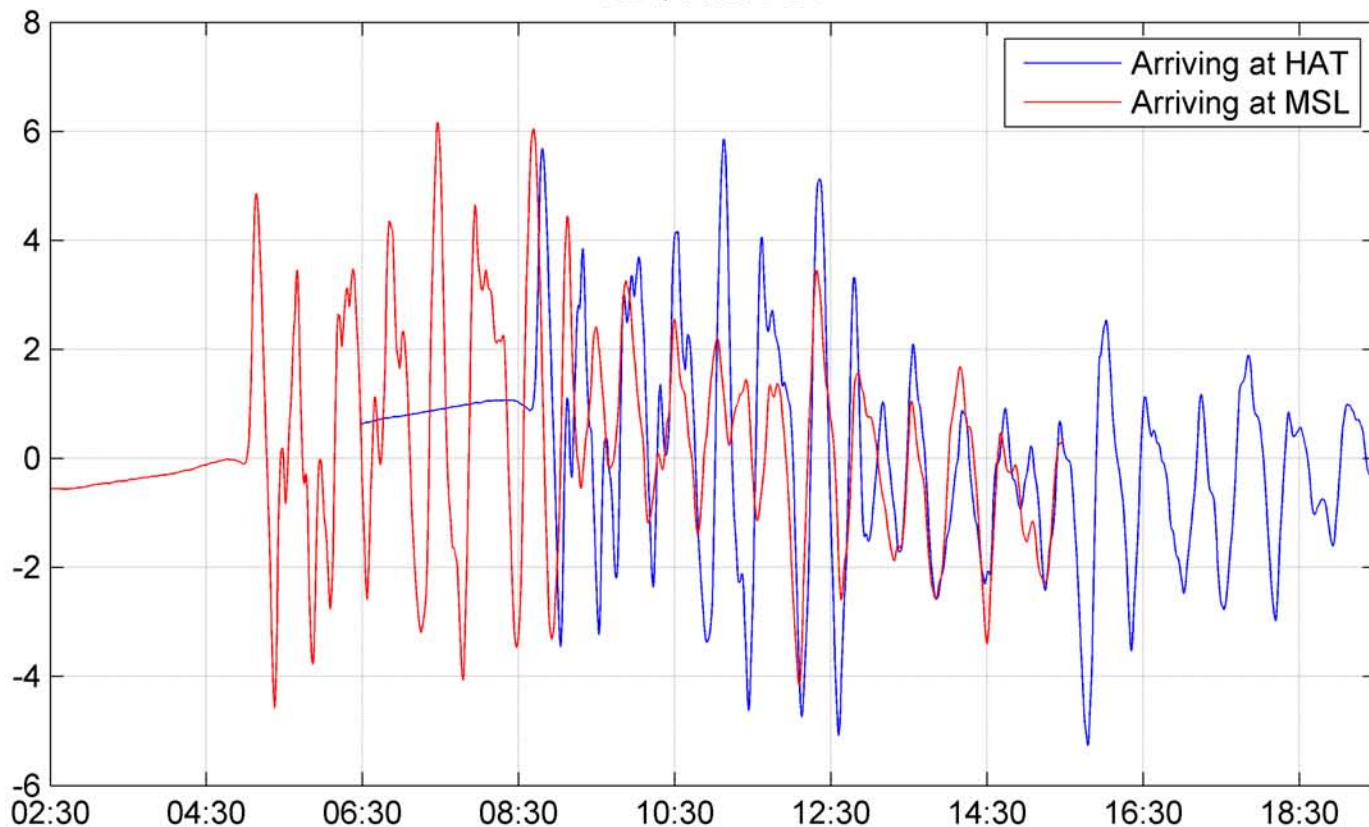


Comparison of Wave Heights for Tsunami Arriving at HAT and MSL





### LMQ-5000-PUY



### MBA-2000-KER

