

Global Wave Energy Testing Sites

SEAFLOOR BATHYMETRY AND SLOPE

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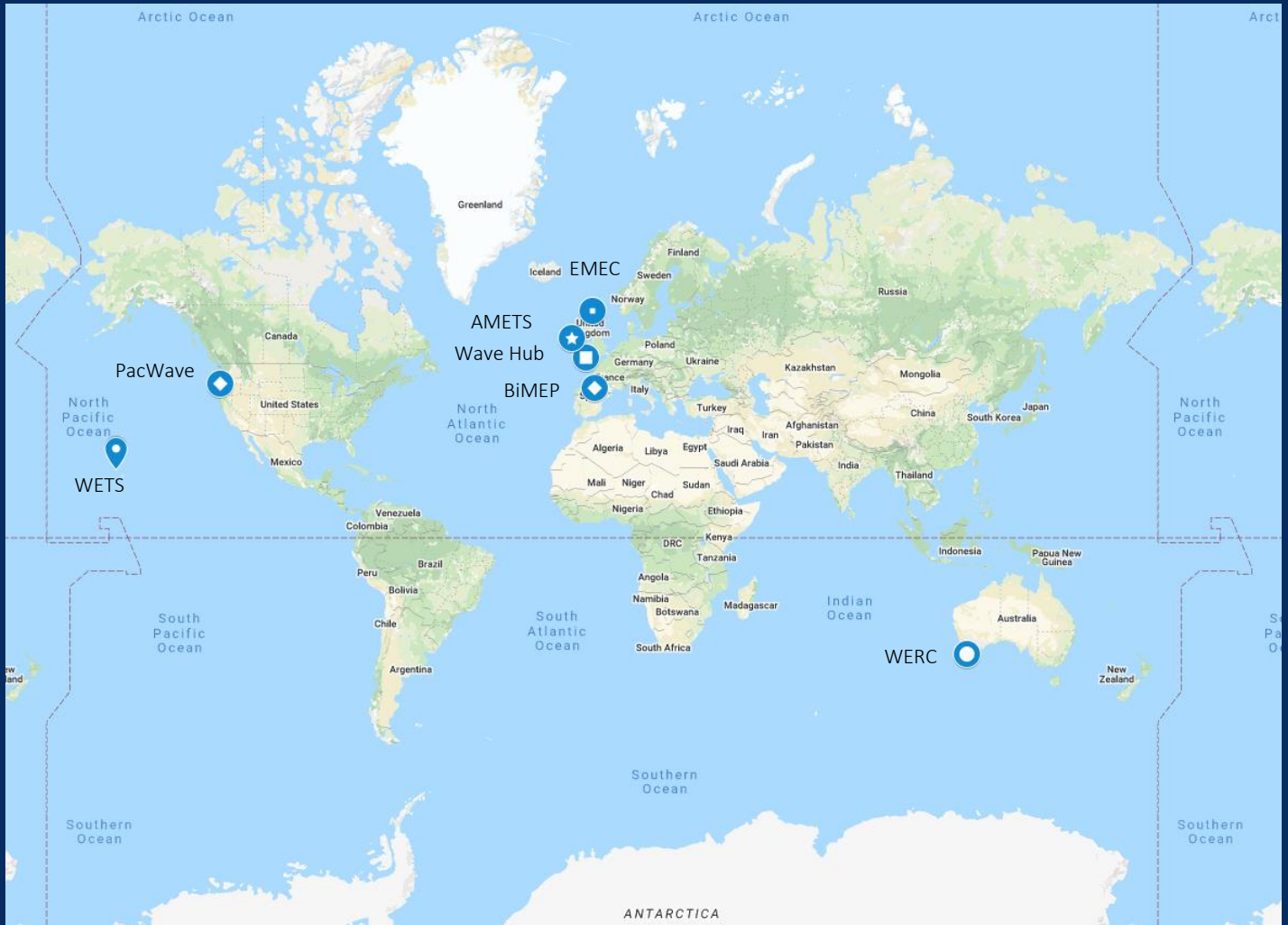
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MAP OF GLOBAL WAVE ENERGY TEST SITES



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	WAVE HUB TEST SITE
	WAVE ENERGY RESEARCH CENTER TEST SITE (WERC)
	PACWAVE TEST SITE
	EUROPEAN MARINE ENERGY CENTER (EMEC): BILLIA CROO TEST SITE
	BISCAY MARINE ENERGY PLATFORM TEST SITE (BIMEP)
	ATLANTIC MARINE ENERGY TEST SITE (AMETS)

HAWAII WAVE ENERGY TEST SITE (WETS)

Data obtained from GEBCO [1]

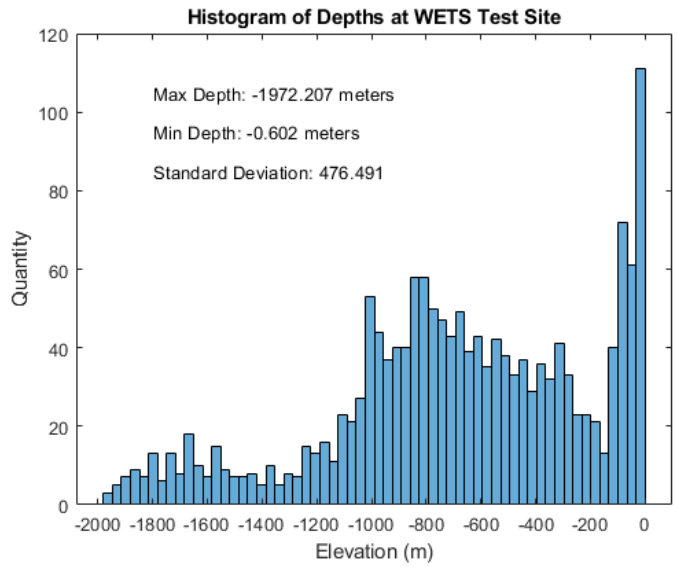
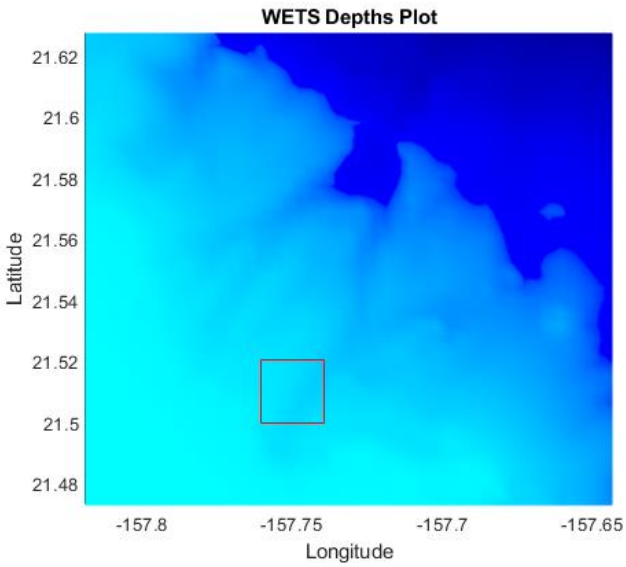
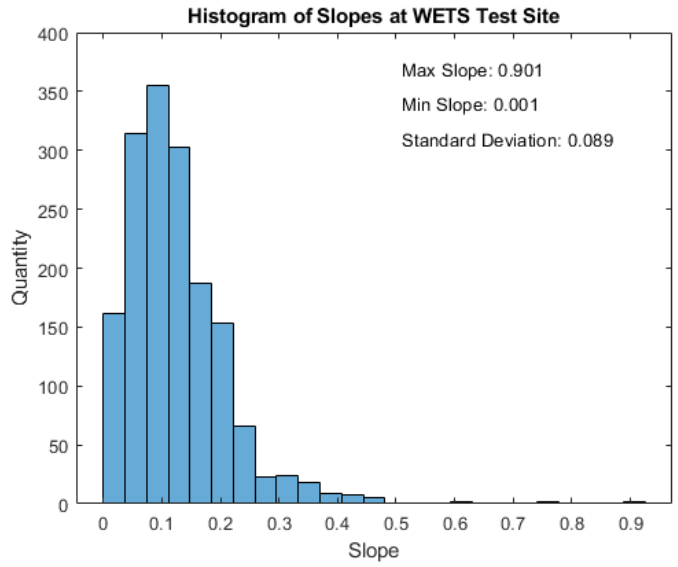
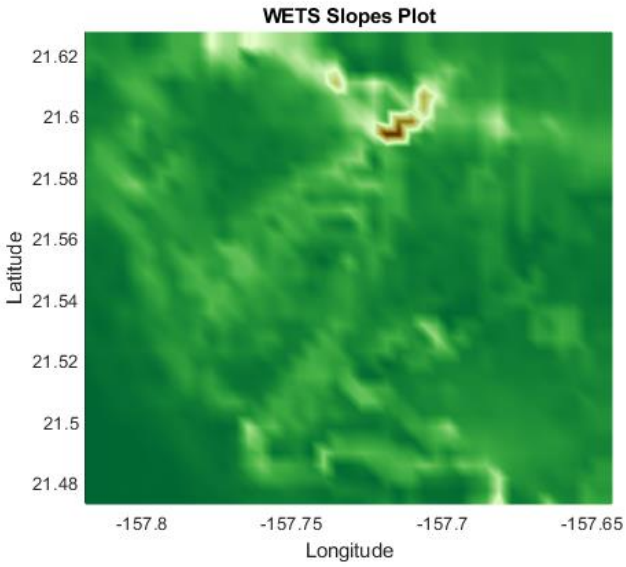


Table 1: WETS Wave Data (2019) [2]

2019 Data	Average	Maximum	Minimum
Wave Height (Meters)	1.70	5.04	0.57
Wave Period (Seconds)	6.45	12.97	4.15

WAVE HUB TEST SITE

Data obtained from GEBCO [1]

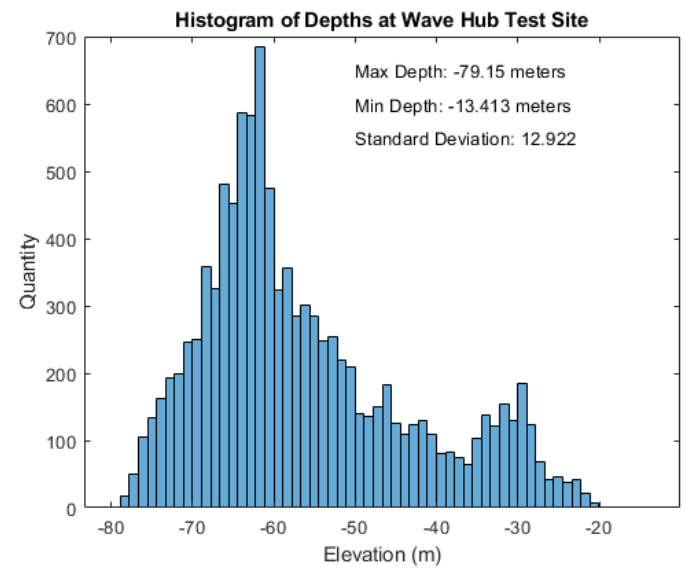
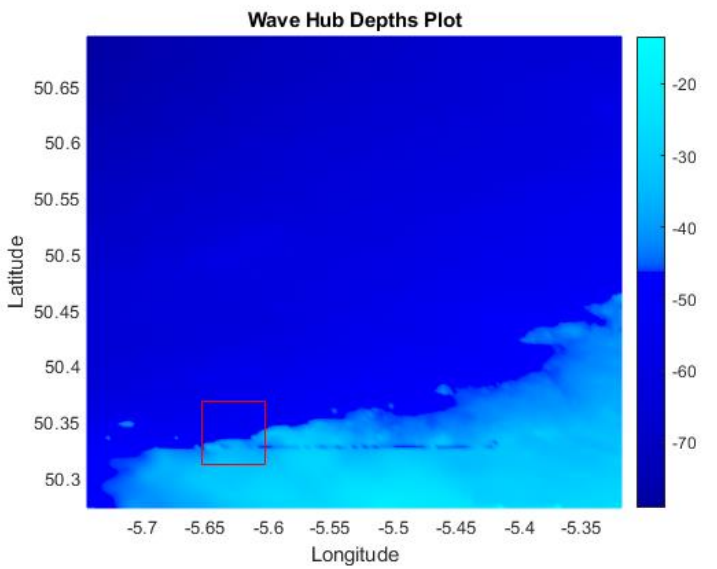
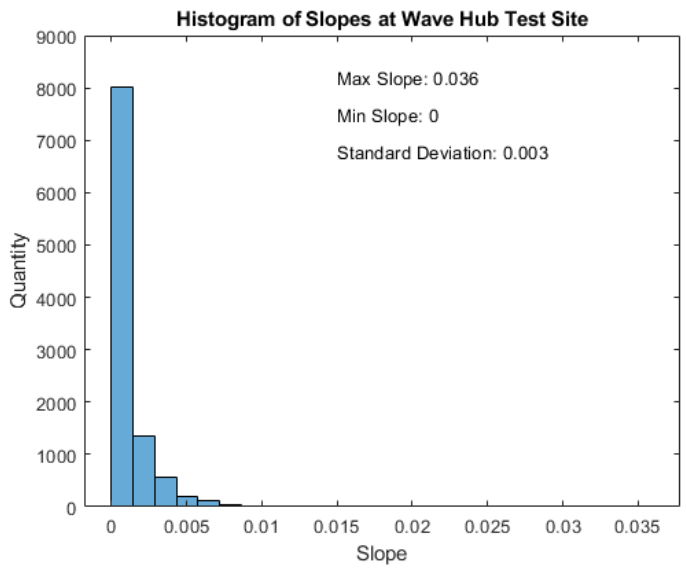
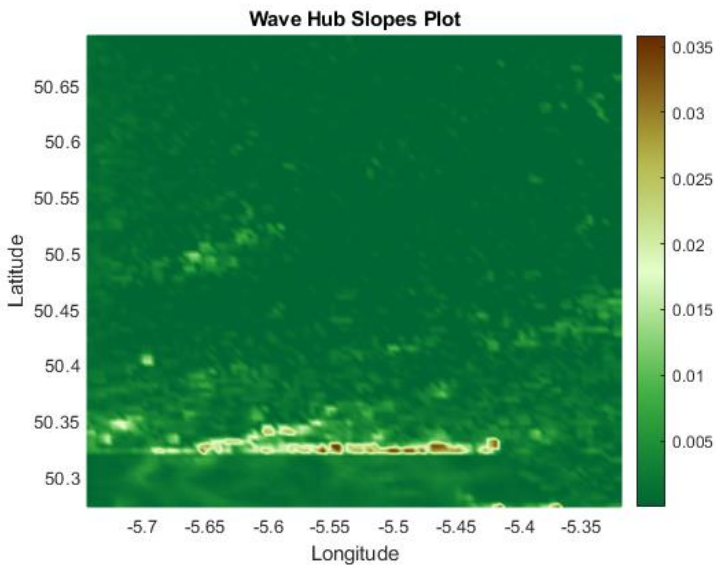


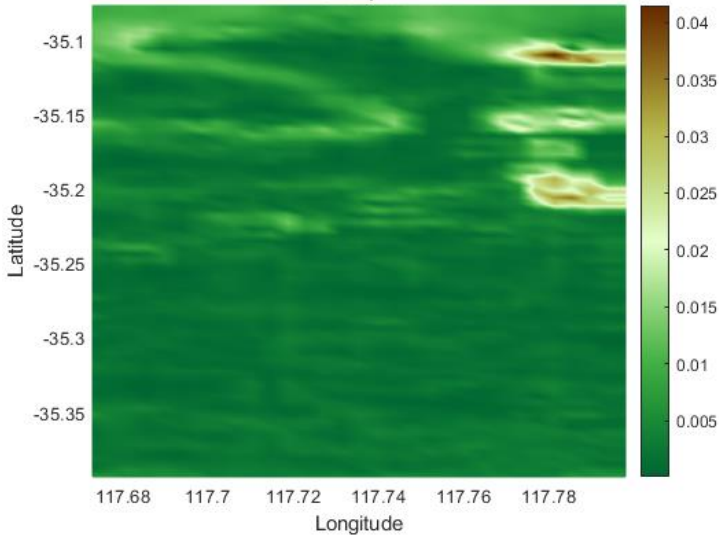
Table 2 Wave Hub Wave Data (2017) [3]

2017 Data	Average	Maximum	Minimum
Wave Height (Meters)	1.50	2.82	1.22
Wave Period (Seconds)	9.90	11.90	8.20

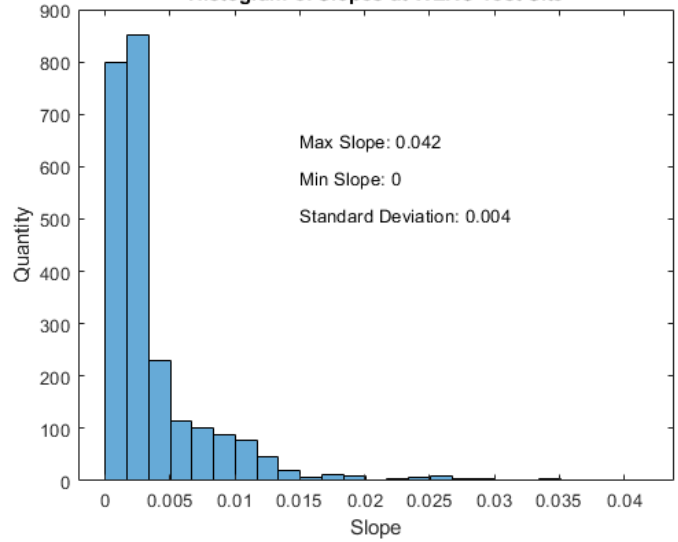
WAVE ENERGY RESEARCH CENTER TEST SITE (WERC)

Data obtained from GEBCO [1]

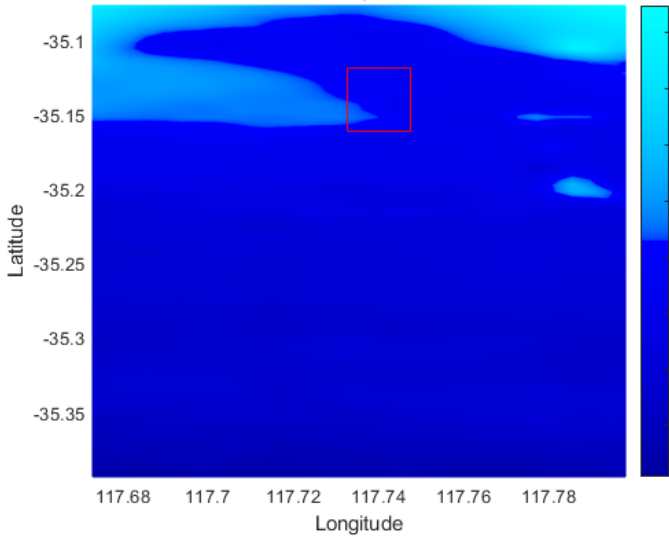
WERC Slopes Plot



Histogram of Slopes at WERC Test Site



WERC Depths Plot



Histogram of Depths at WERC Test Site

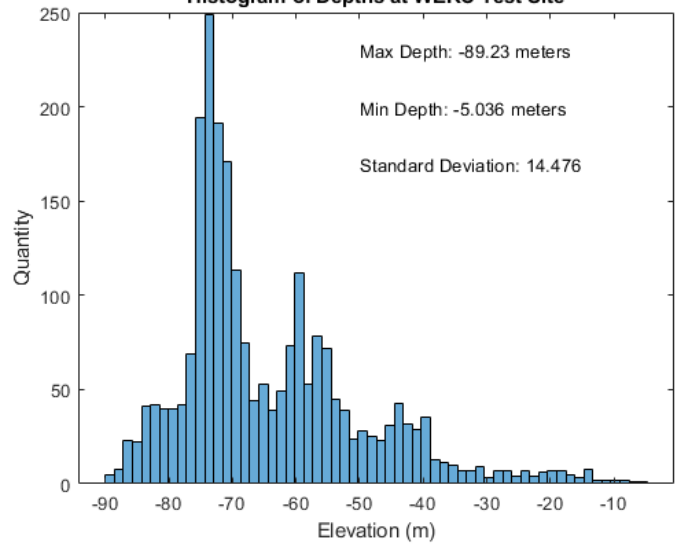


Table 3 WERC Wave Data (2017) [4]

2017 Data	Average	Maximum	Minimum
Wave Height (Meters)	2.80	6.70	1.21
Wave Period (Seconds)	8.61	14.36	5.02

PACWAVE TEST SITE

Data obtained from GEBCO [1]

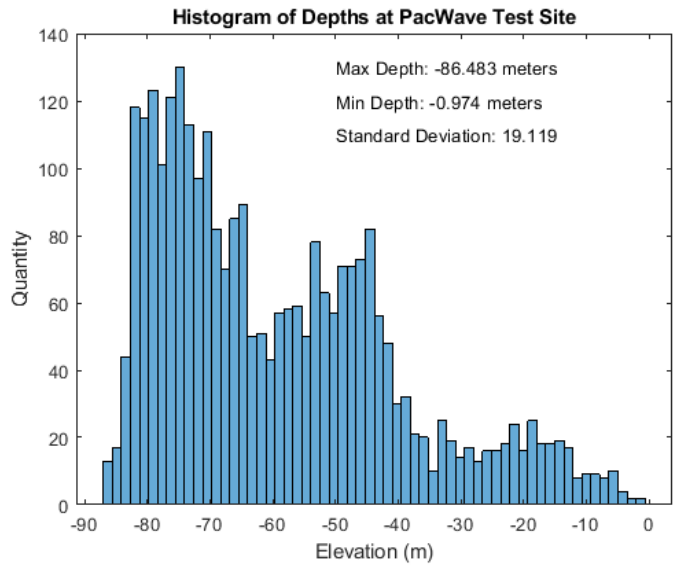
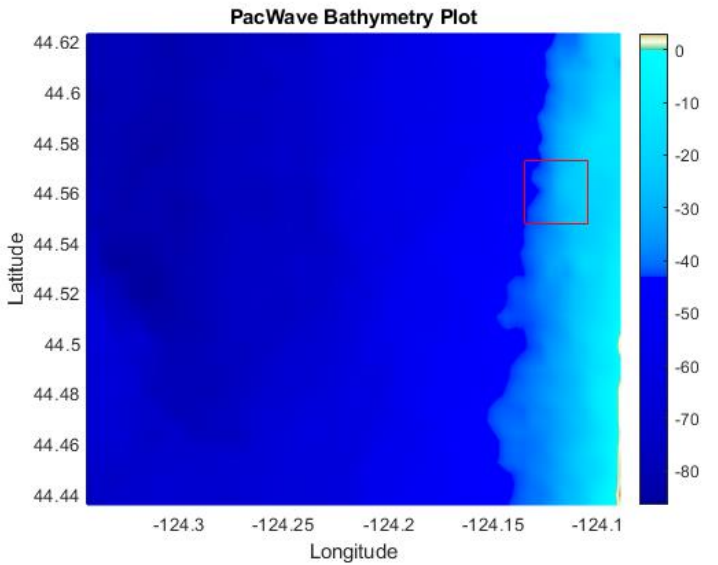
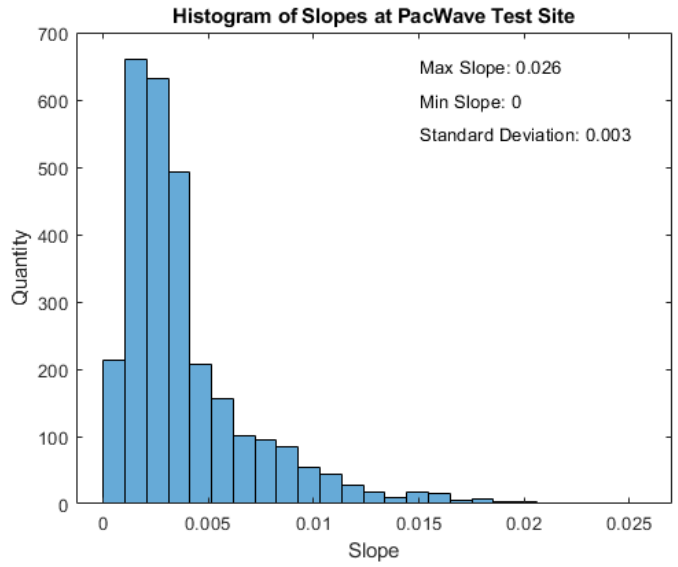
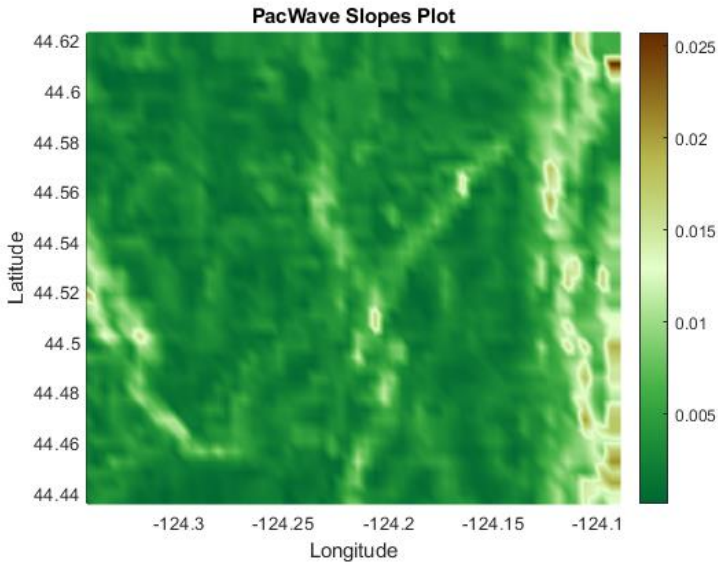


Table 4 PacWave Wave Data (2011) [5]

2011 Data	Average	Maximum	Minimum
Wave Height (Meters)	2.47	3.58	1.56
Wave Period (Seconds)	11.93	14.12	9.88

EUROPEAN MARINE ENERGY CENTER (EMEC): BILLIA CROO TEST SITE

Data obtained from GEBCO [1]

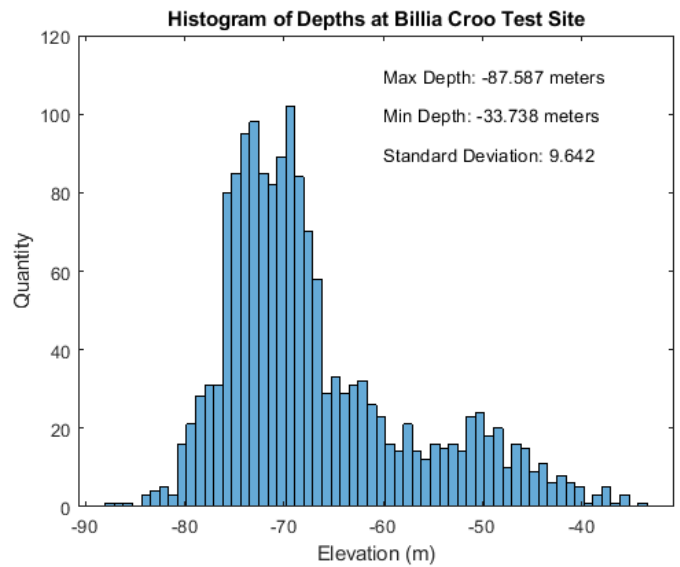
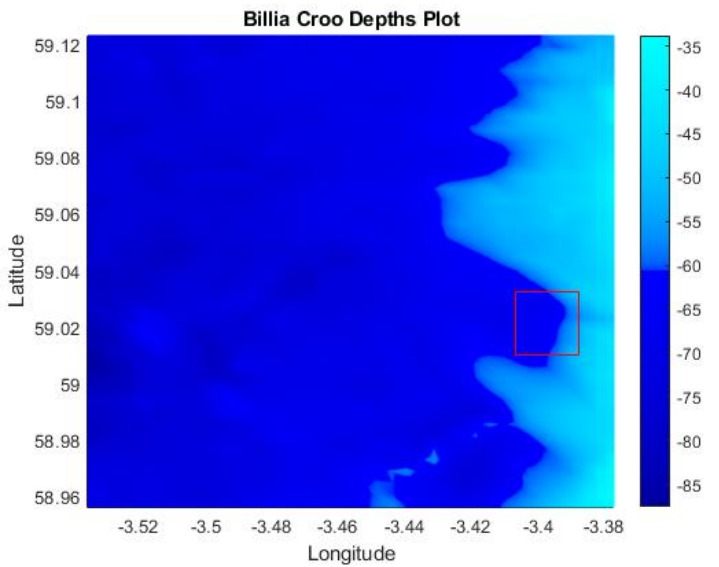
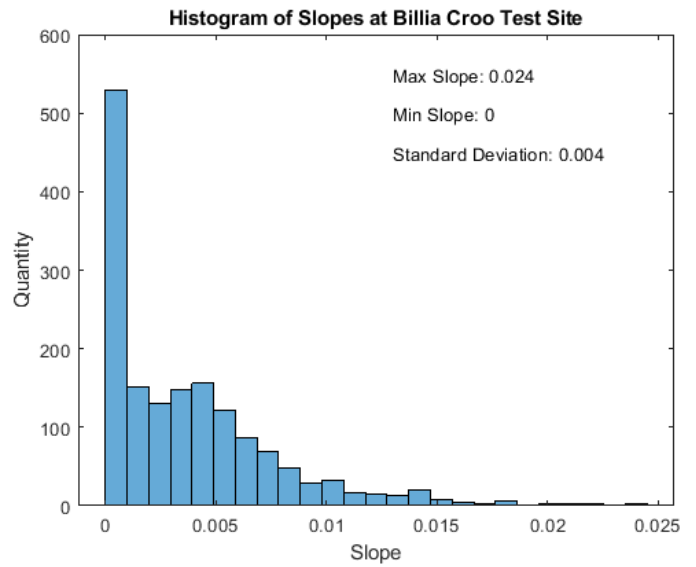
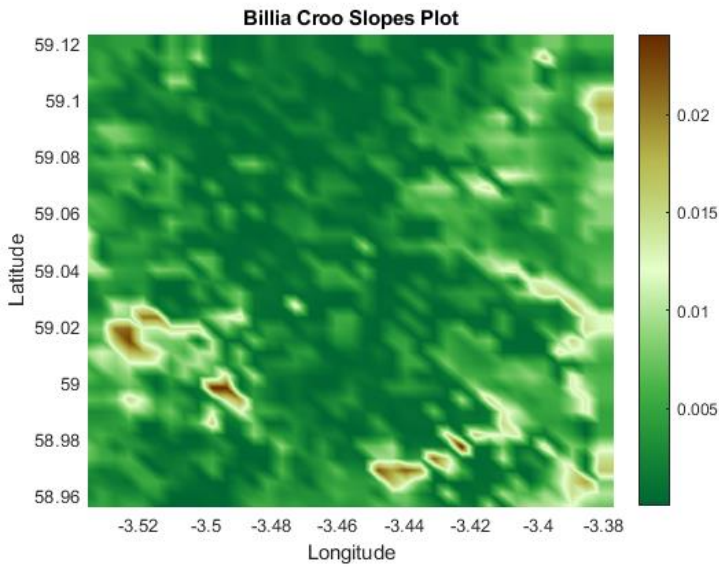


Table 5 Billia Croo Wave Data (2020) [6]

04/12/2020 20:00:00 Data	Maximum
Wave Height (Meters)	1.70
Wave Period (Seconds)	6.45

BISCAY MARINE ENERGY PLATFORM TEST SITE (BIMEP)

Data obtained from GEBCO [1]

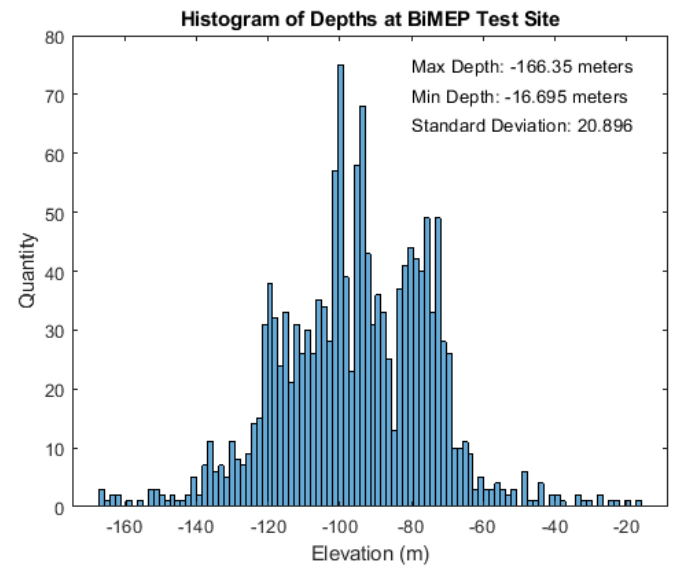
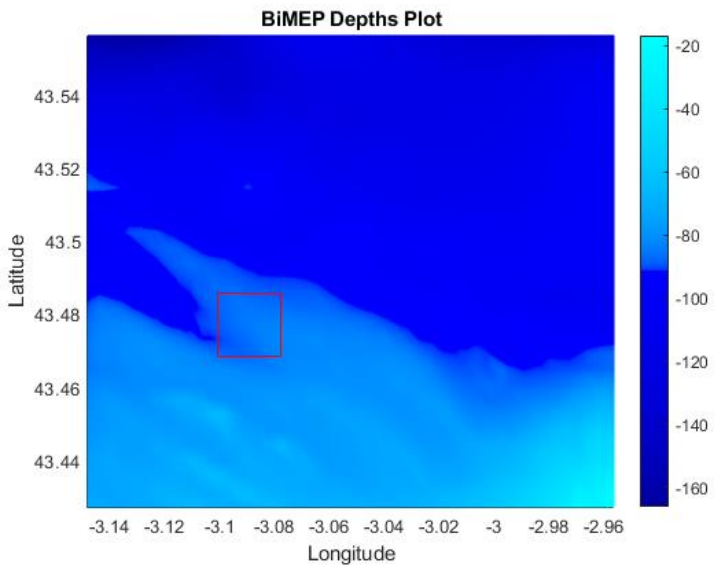
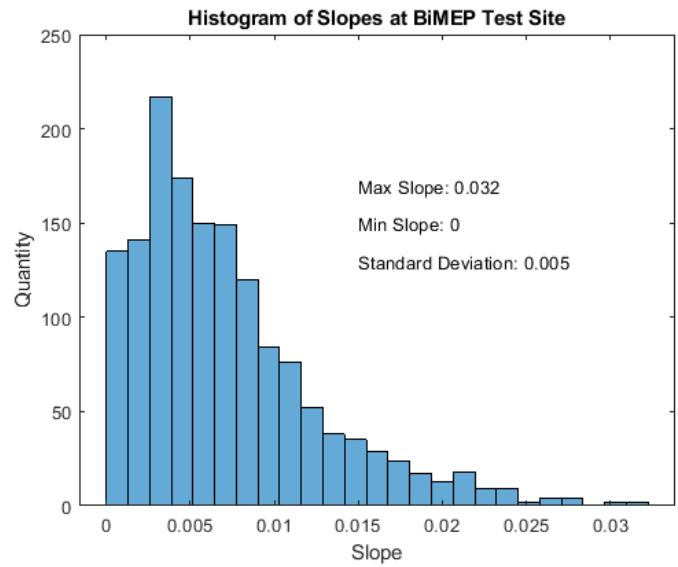
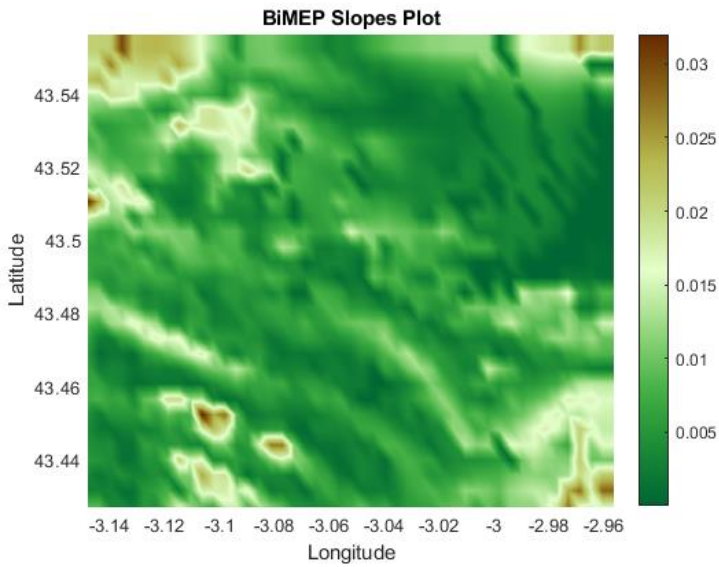


Table 6 BiMEP Wave Data (2020) [7]

04/12/2020 Data	Average
Wave Height (Meters)	0.16
Wave Period (Seconds)	22.75

ATLANTIC MARINE ENERGY TEST SITE (AMETS)

Data obtained from GEBCO [1]

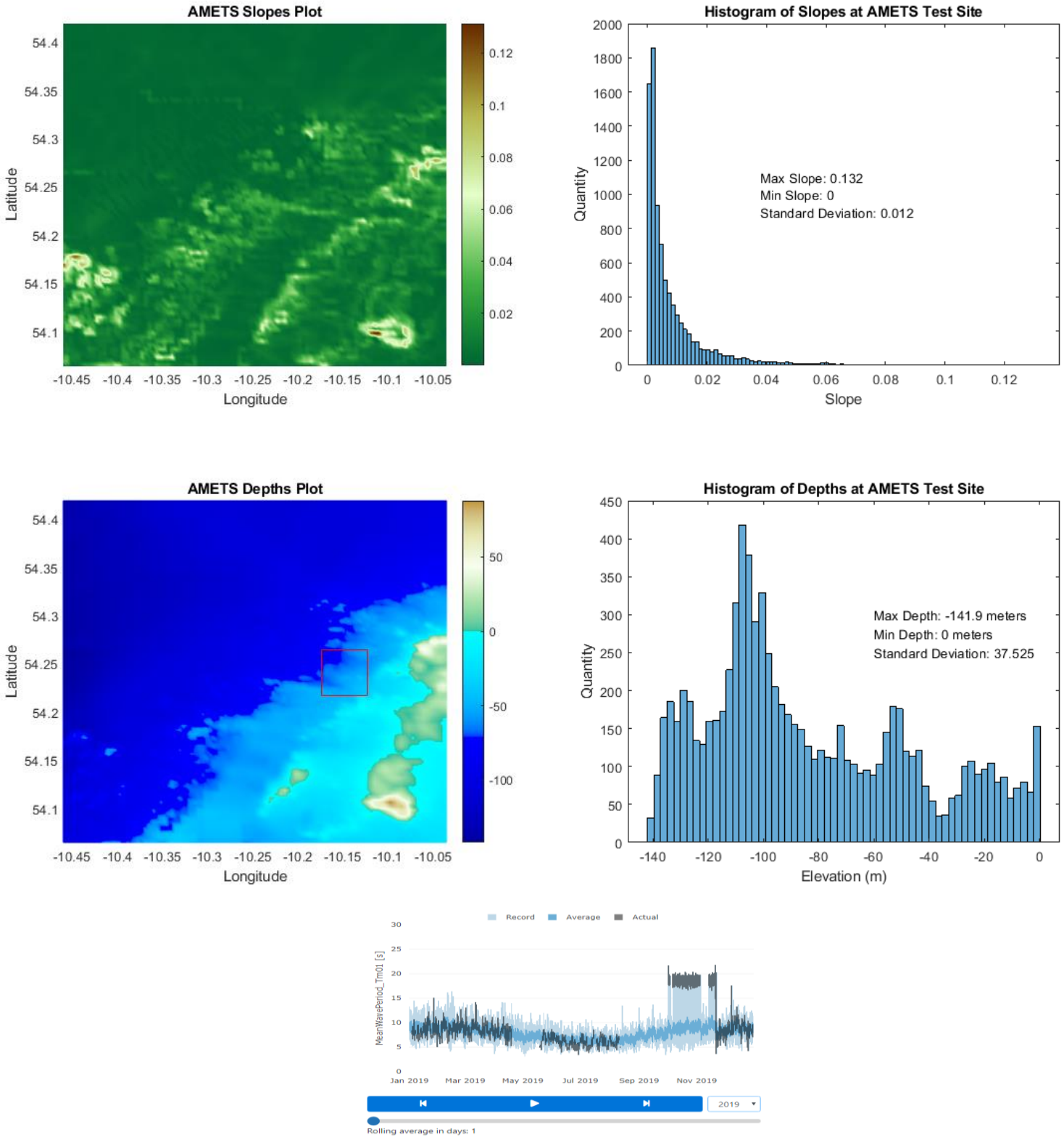


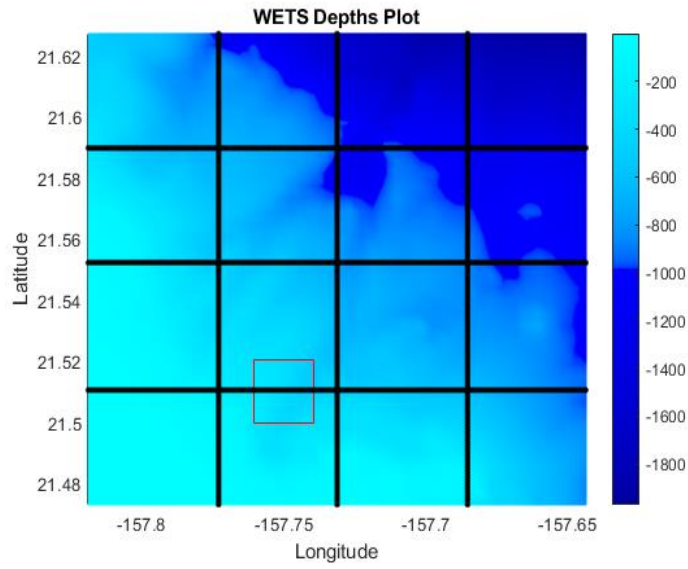
Figure 1 AMETS Wave Data (2019) [8]

REFERENCES

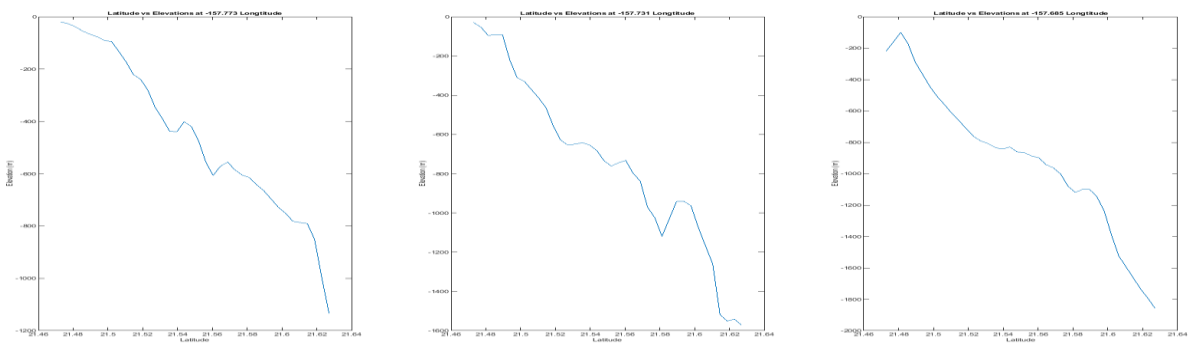
- [1] "GEBCO Gridded Bathymetry Data."
https://www.gebco.net/data_and_products/gridded_bathymetry_data/ (accessed Apr. 25, 2020).
- [2] "NDBC - Station 51207 Historical Data."
https://www.ndbc.noaa.gov/station_history.php?station=51207 (accessed Apr. 25, 2020).
- [3] "Channel Coastal Observatory - Wave Hub."
http://www.channelcoast.org/data_management/real_time_data/charts/?chart=116&tab=stats&disp_option=&data_type=table&year=2017 (accessed Apr. 25, 2020).
- [4] "Open Access to Ocean Data." <https://portal.aodn.org.au/> (accessed Apr. 25, 2020).
- [5] "Wave Information Studies."
http://wis.usace.army.mil/wis_products.html?dmn=pacific&staid=83024&lat=44.67&lon=-124.25&dep=-80 (accessed Apr. 25, 2020).
- [6] "Wave data : EMEC: European Marine Energy Centre." <http://www.emec.org.uk/facilities/live-data/wave-data/> (accessed Apr. 25, 2020).
- [7] "BiMEP." <https://bimep.com/> (accessed Apr. 25, 2020).
- [8] "IrishDataBuoyNetwork."
[http://vis.marine.ie/dashboards/#/dashboards/wave_spectral?buoy=AMETS Berth B Wave Buoy&measurement=MeanWavePeriod_Tm01](http://vis.marine.ie/dashboards/#/dashboards/wave_spectral?buoy=AMETS%20Berth%20B%20Wave%20Buoy&measurement=MeanWavePeriod_Tm01) (accessed Apr. 25, 2020).

APPENDIX

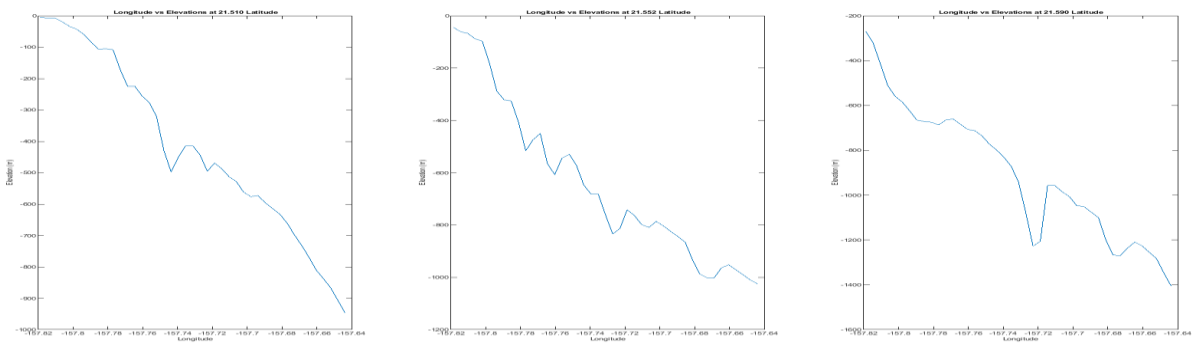
WETS Depths Plot



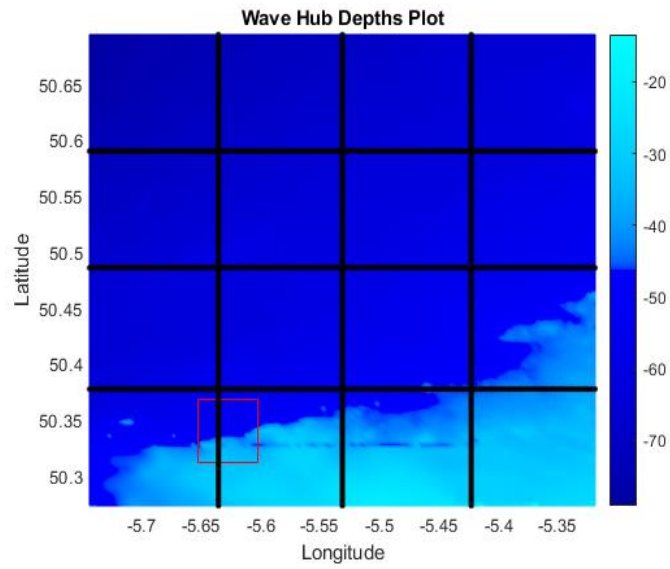
WETS Depths Plots at Different Longitudes



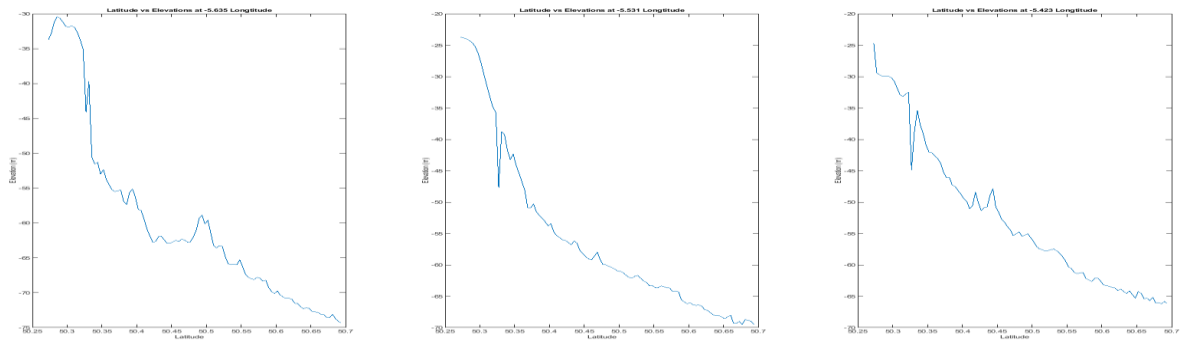
WETS Depths Plots at Different Latitudes



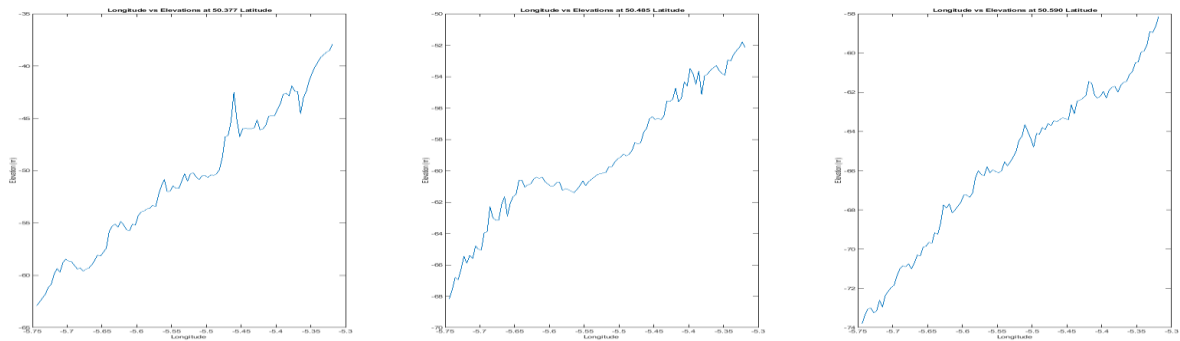
Wave Hub Depths Plot



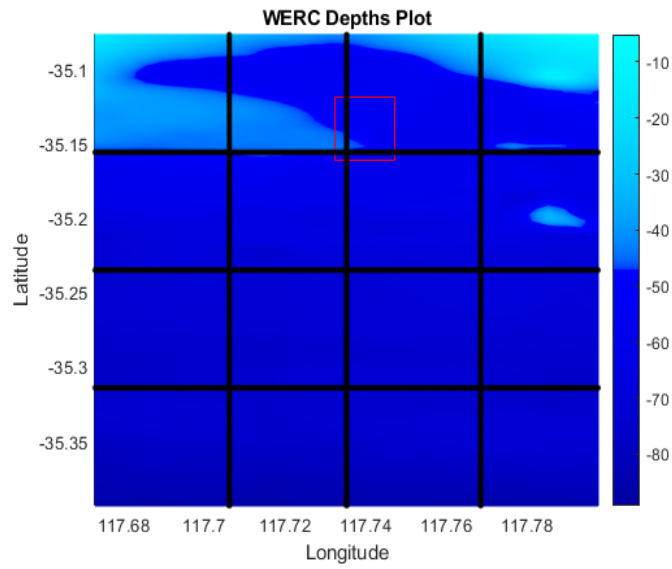
Wave Hub Depths Plots at Different Longitudes



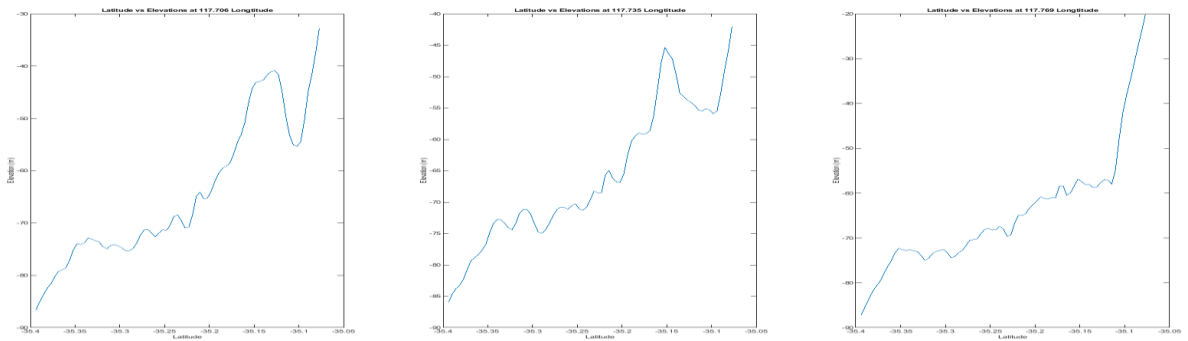
Wave Hub Depths Plots at Different Latitudes



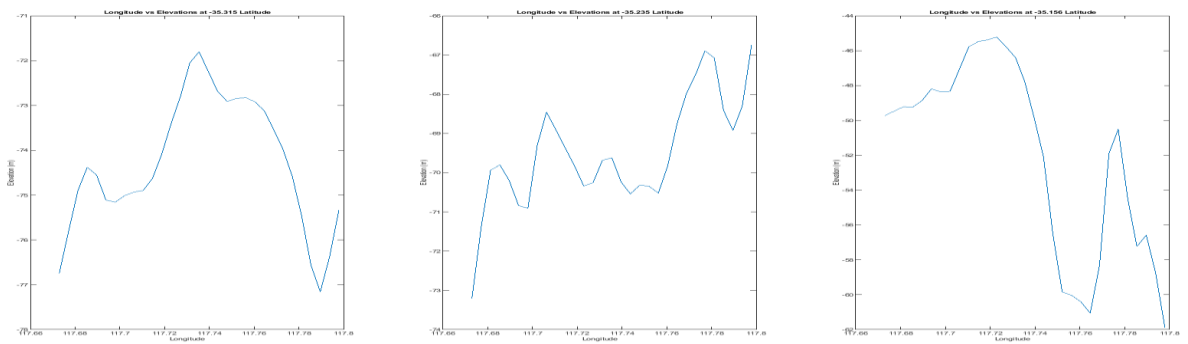
WERC Depths Plot



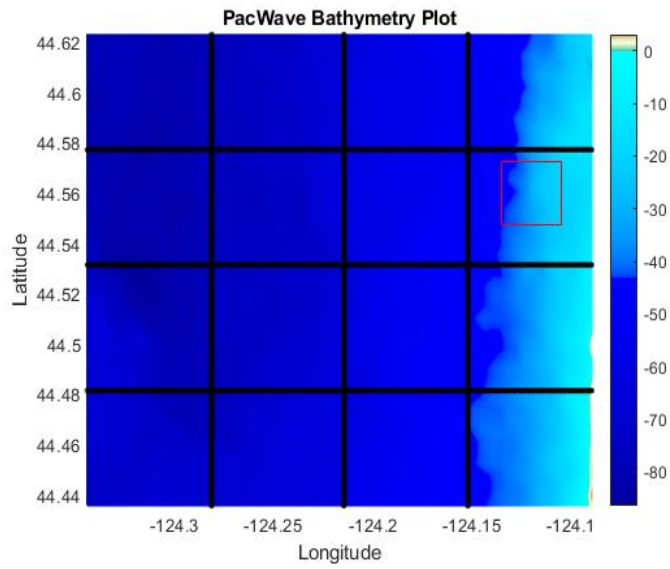
WERC Depths Plots at Different Longitudes



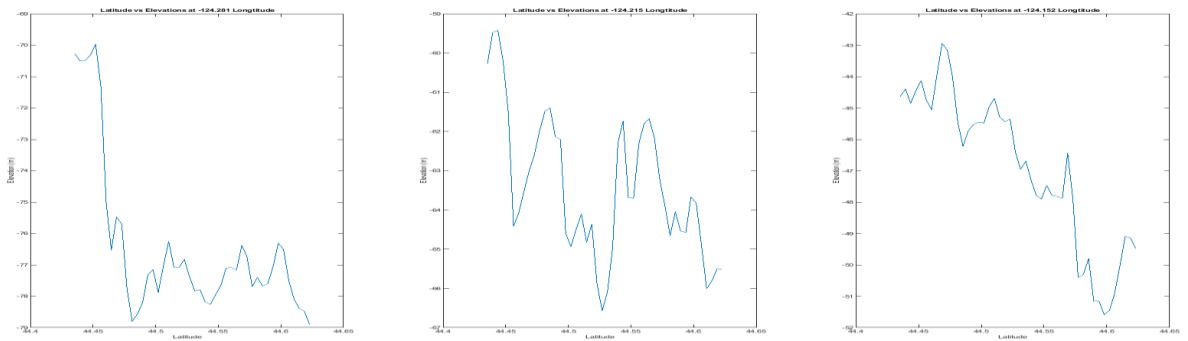
WERC Depths Plots at Different Latitudes



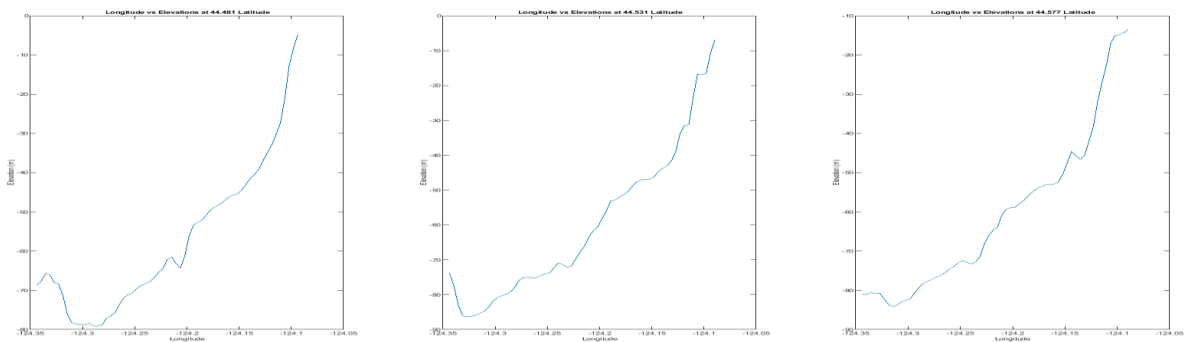
PacWave Depths Plot



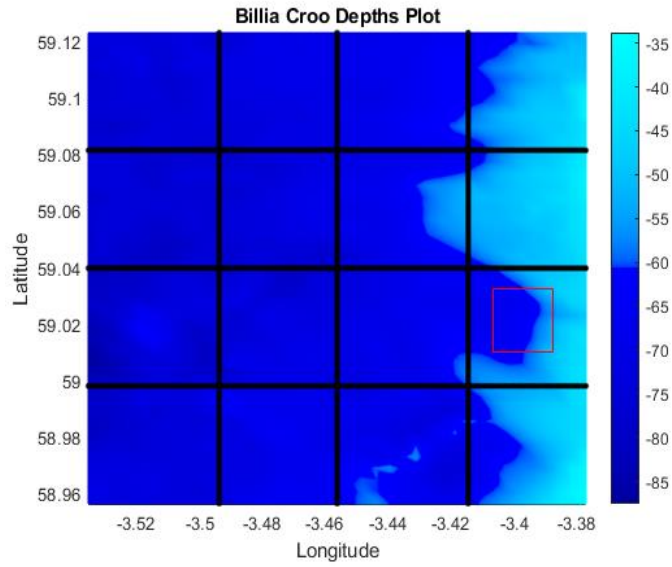
PacWave Depths Plots at Different Longitudes



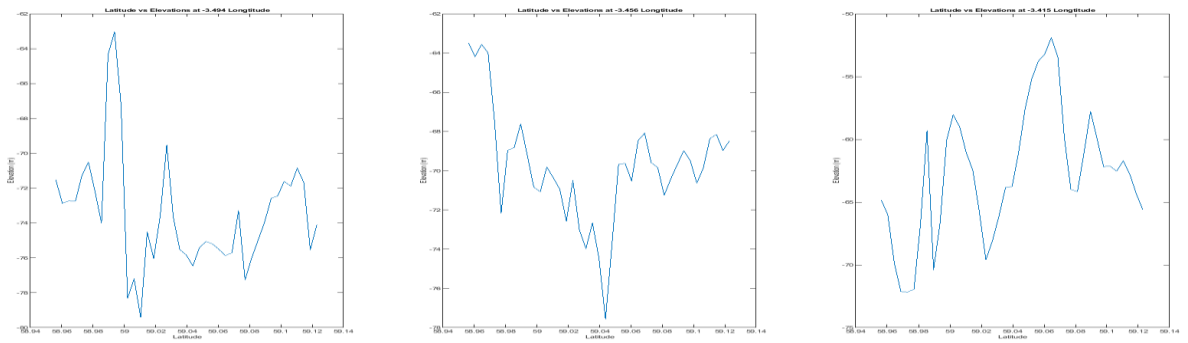
PacWave Depths Plots at Different Latitudes



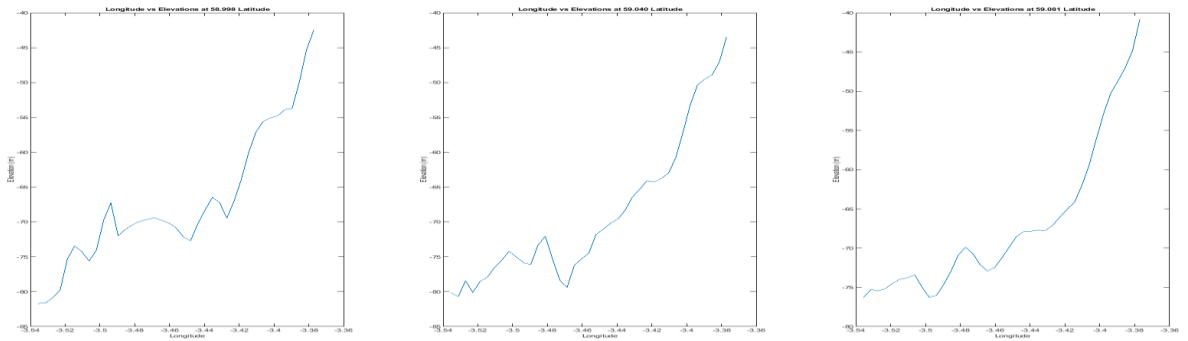
Billia Croo Depths Plot



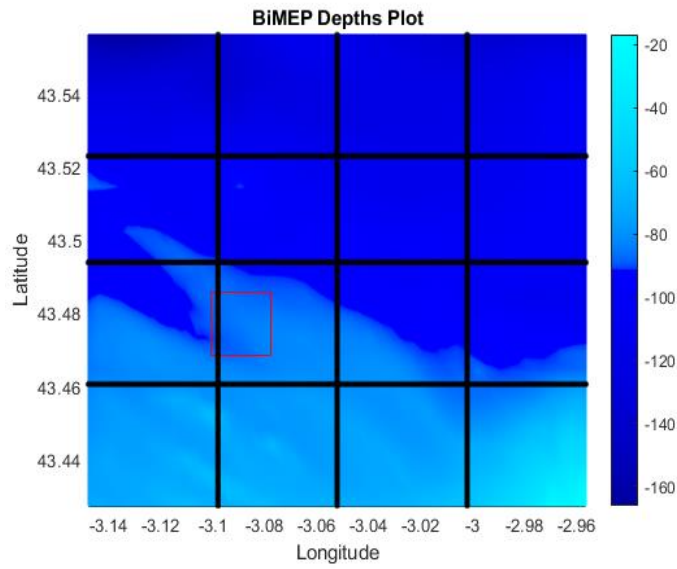
Billia Croo Depths Plots at Different Longitudes



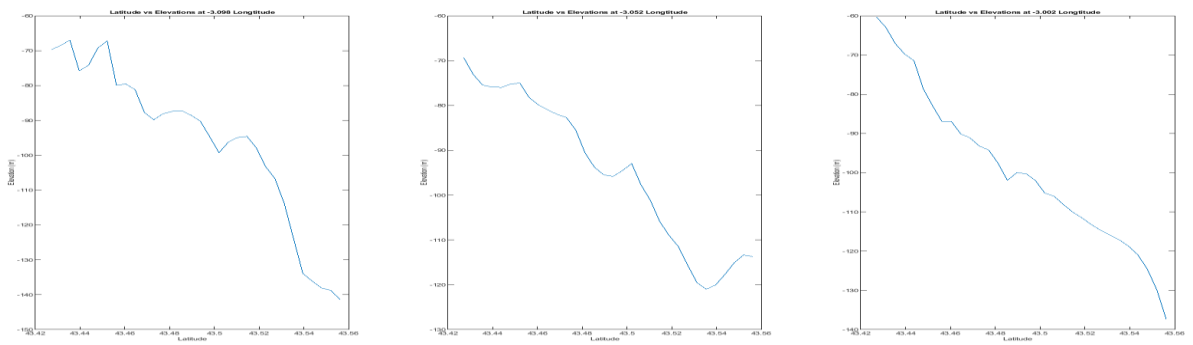
Billia Croo Depths Plots at Different Latitudes



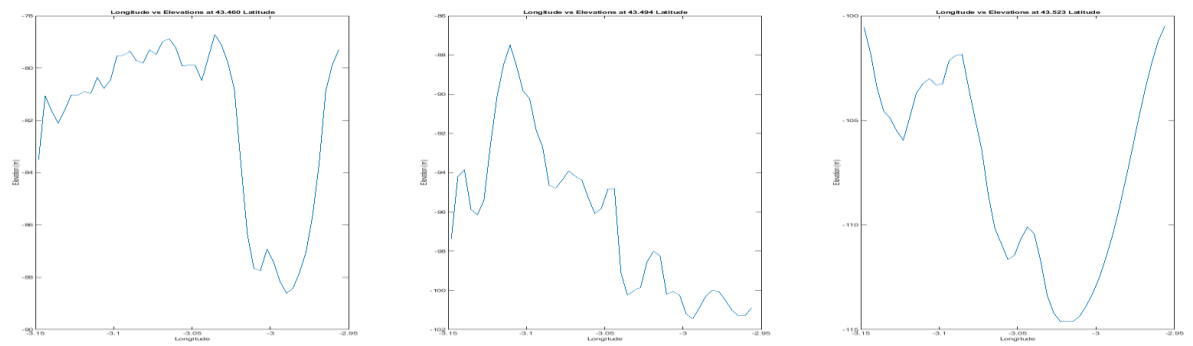
BiMEP Depths Plot



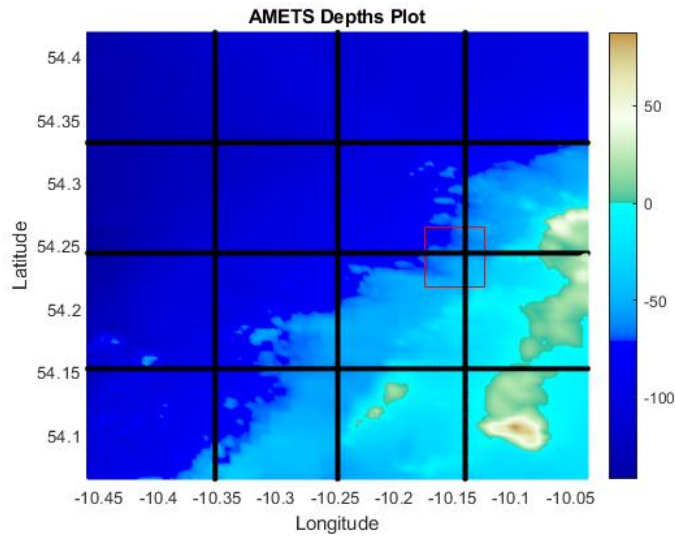
BiMEP Depths Plots at Different Longitudes



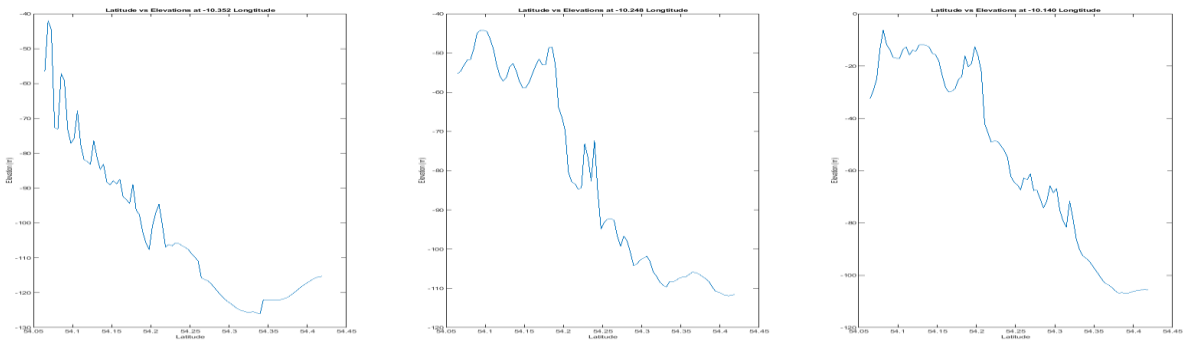
BiMEP Depths Plots at Different Latitudes



AMETS Depths Plot



AMETS Depths Plots at Different Longitudes



AMETS Depths Plots at Different Latitudes

