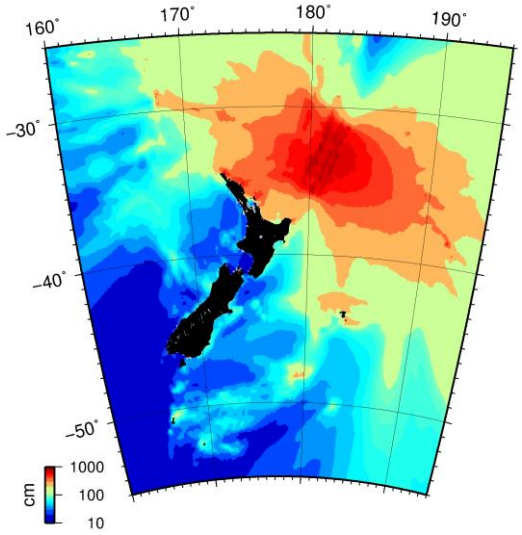
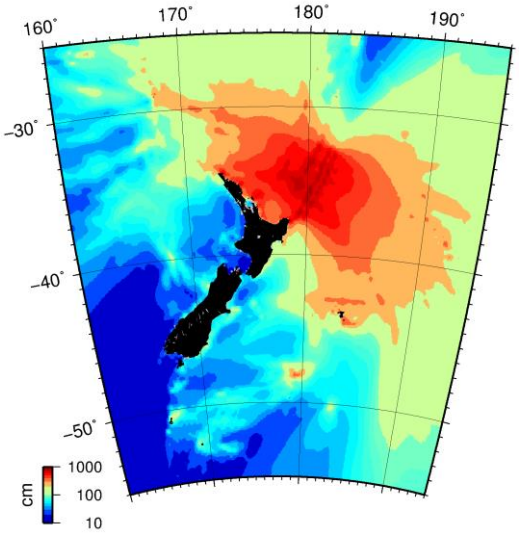
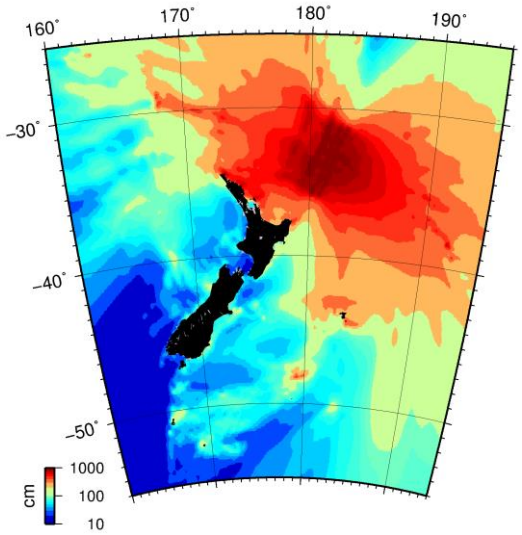
# 1 APPENDIX 1 – NEAR SOURCE PROPAGATION MODEL RESULTS: TONGA-KERMADEC (TK) TRENCH SCENARIOS



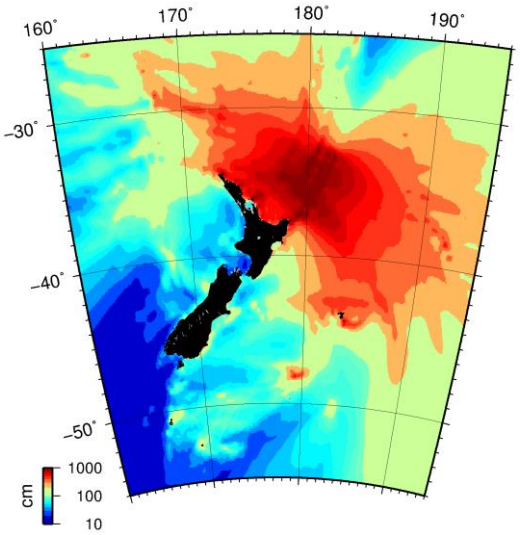

CASE 1



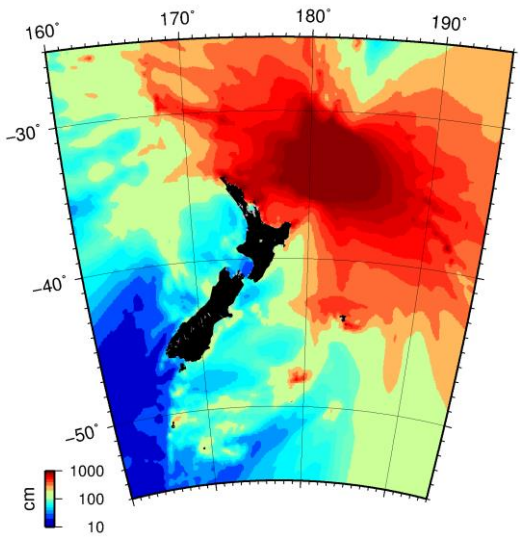

CASE 2



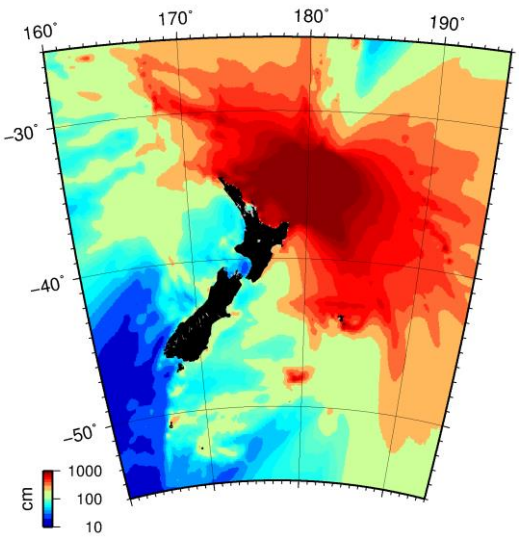

CASE 3



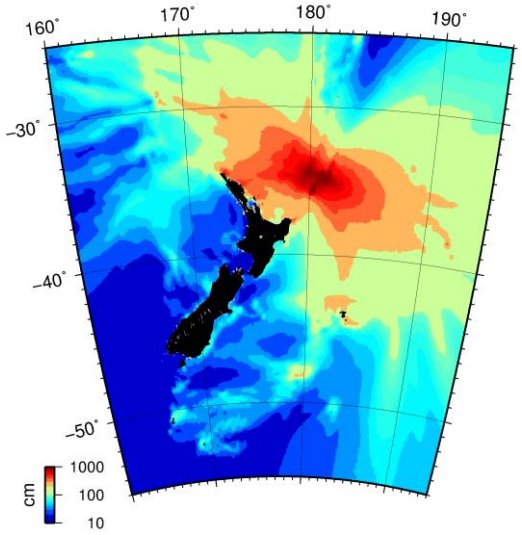

CASE 4



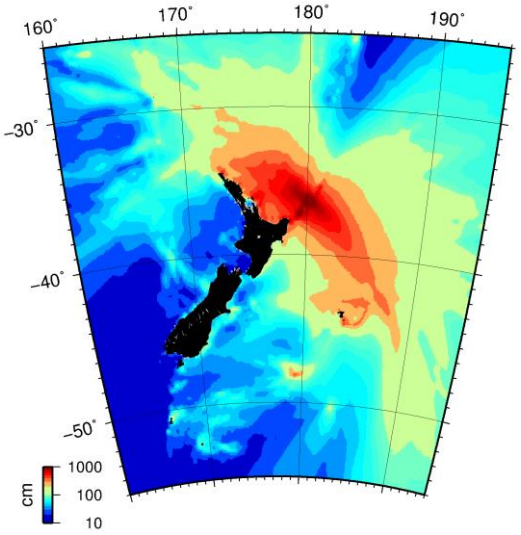

CASE 5




CASE 6




CASE 7

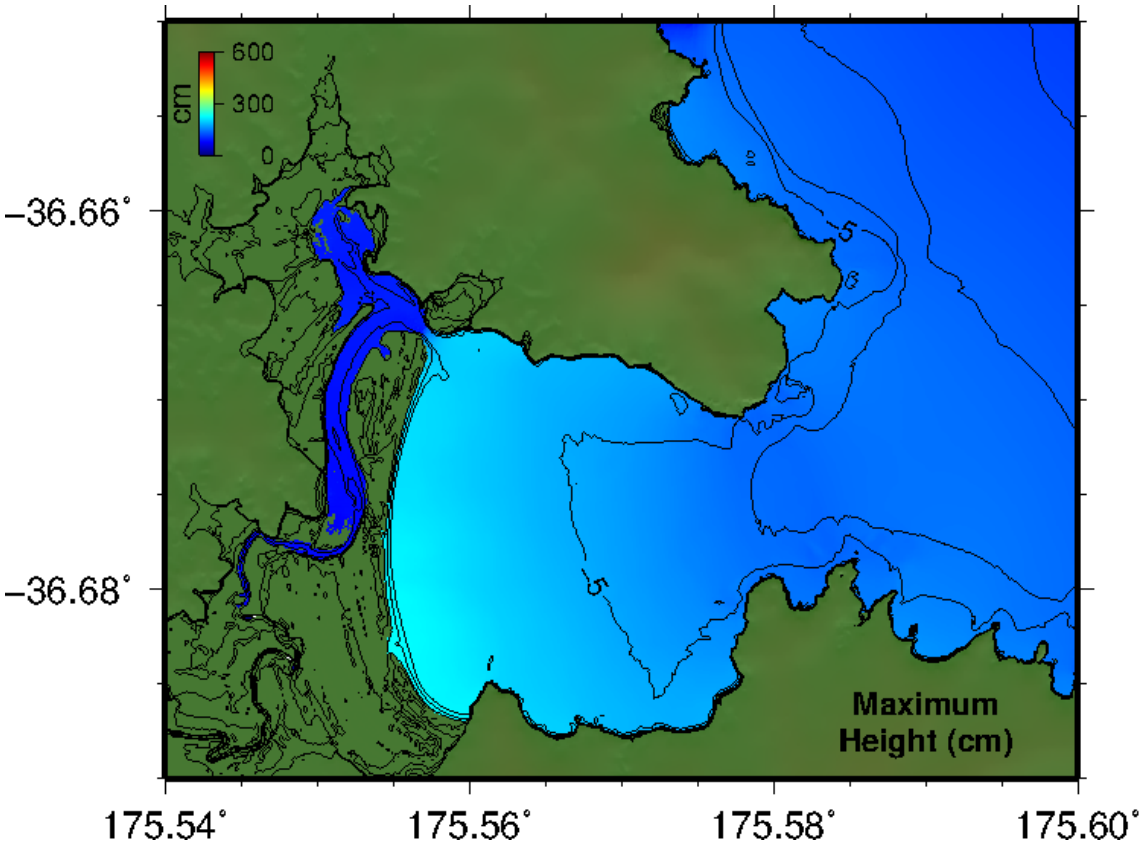


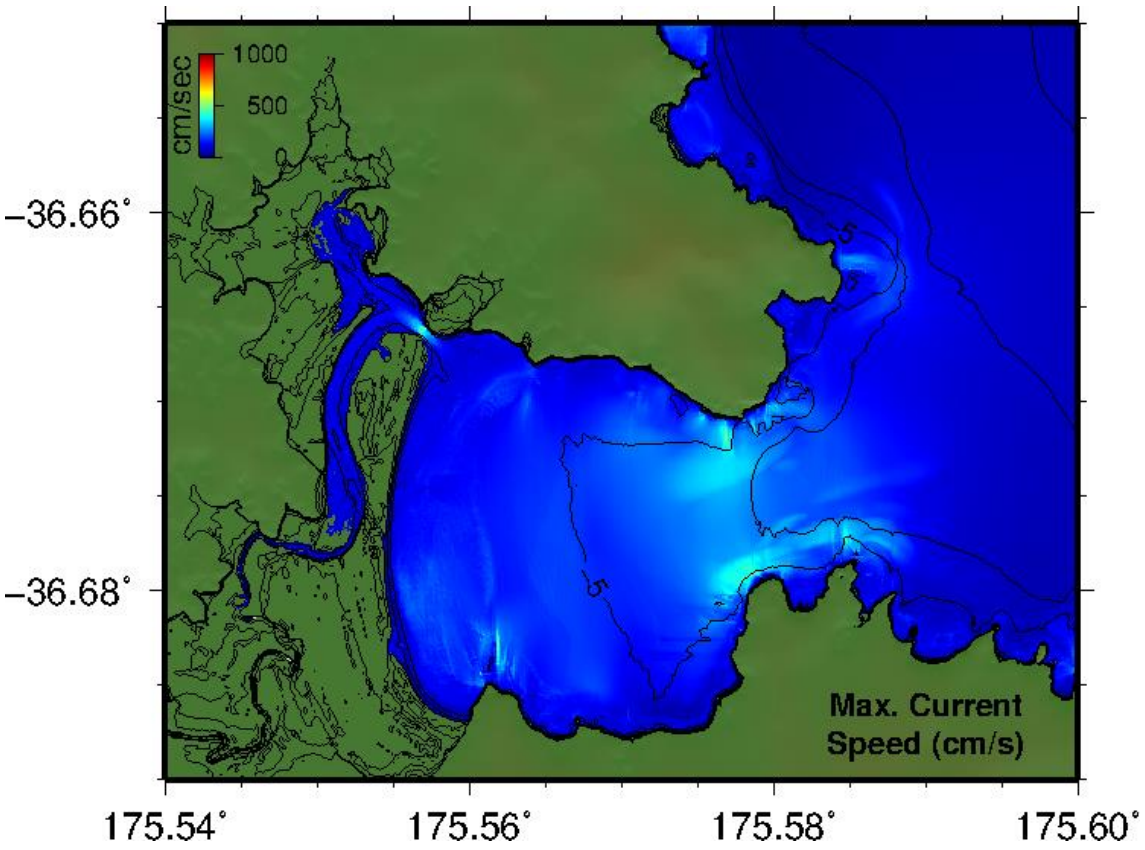

CASE 8

**Figure 1.1 Modelled maximum tsunami wave heights from cases 1 – 8 in the vicinity of New Zealand.**

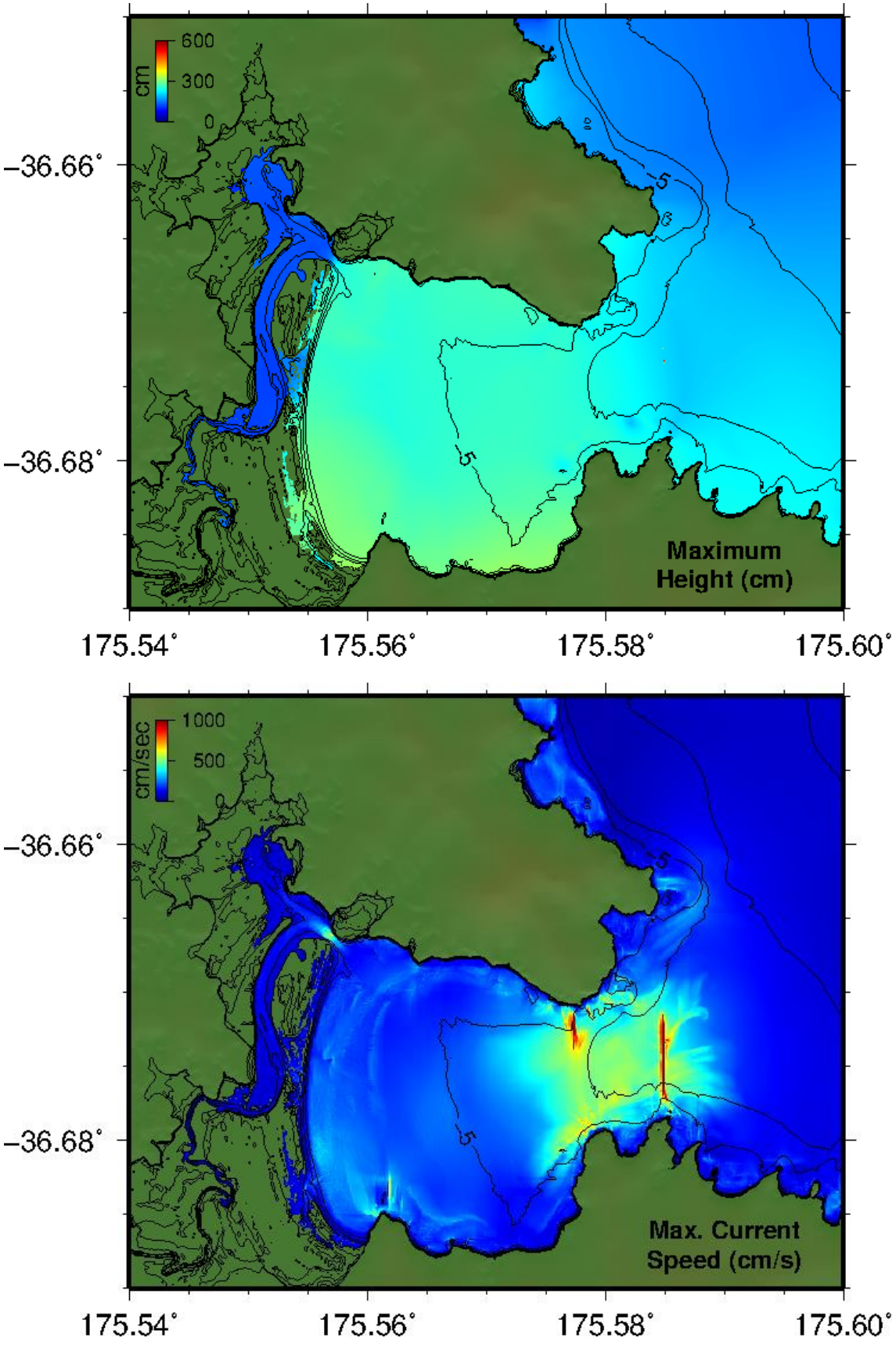
# 2 APPENDIX 2 – KENNEDY BAY: TK TRENCH SOURCES

Case 1:

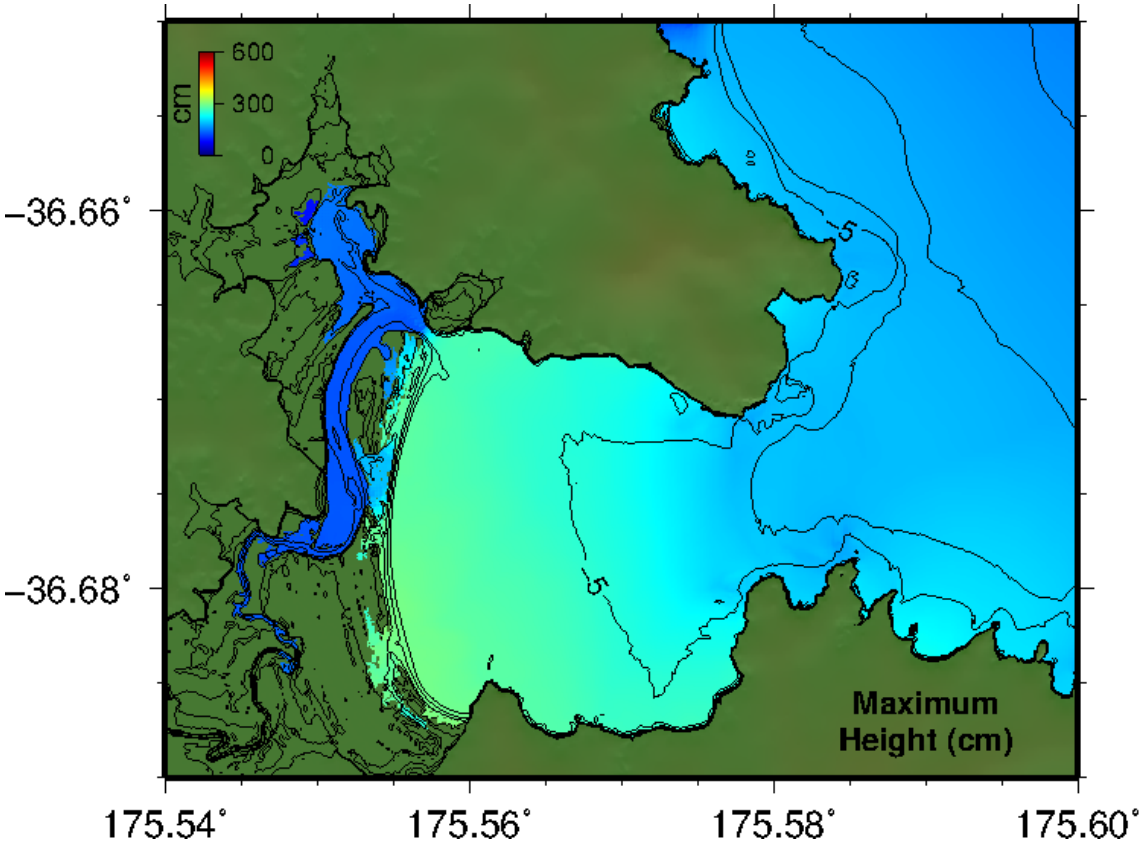


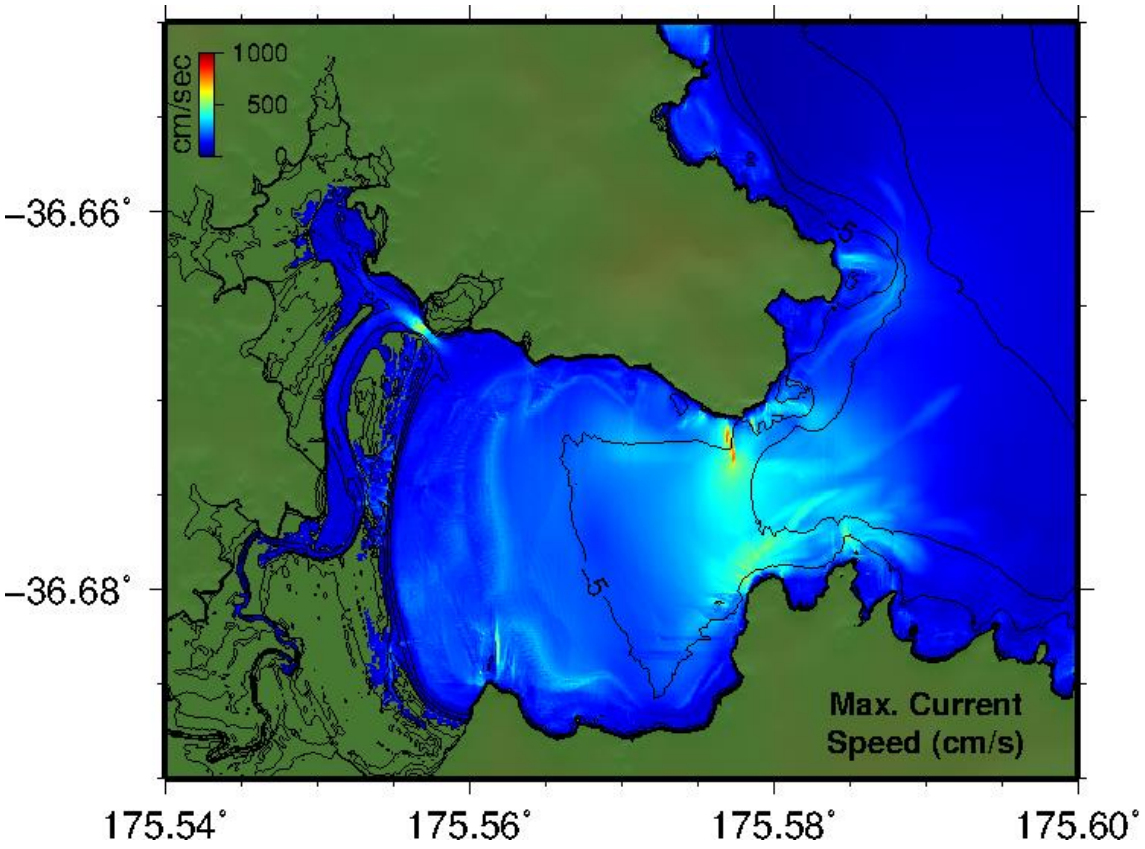



Case 2:

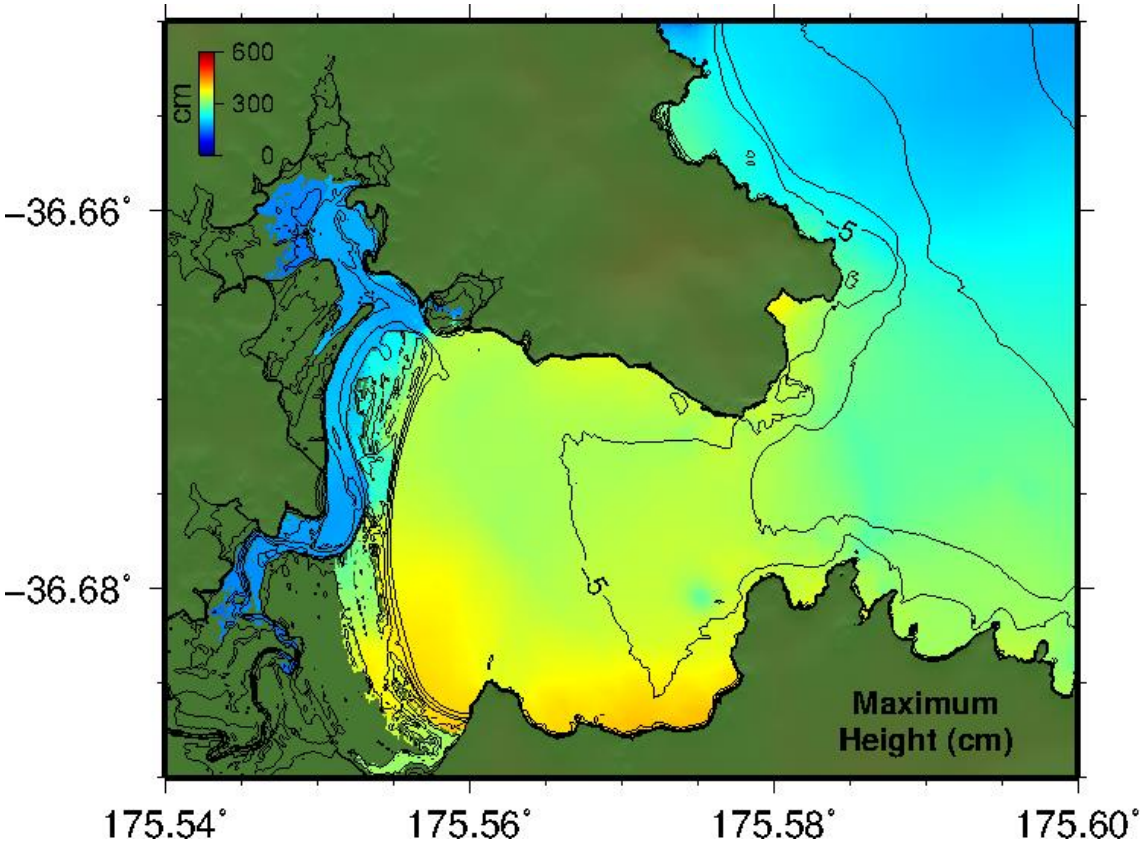

600
300
0
cm
5
5
Maximum
Height (cm)
–36.66˚
–36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
1000
500
0
cm/sec
5
5
Max. Current
Speed (cm/s)
–36.66˚
–36.68˚
175.54˚
175.56˚
175.58˚
175.60˚

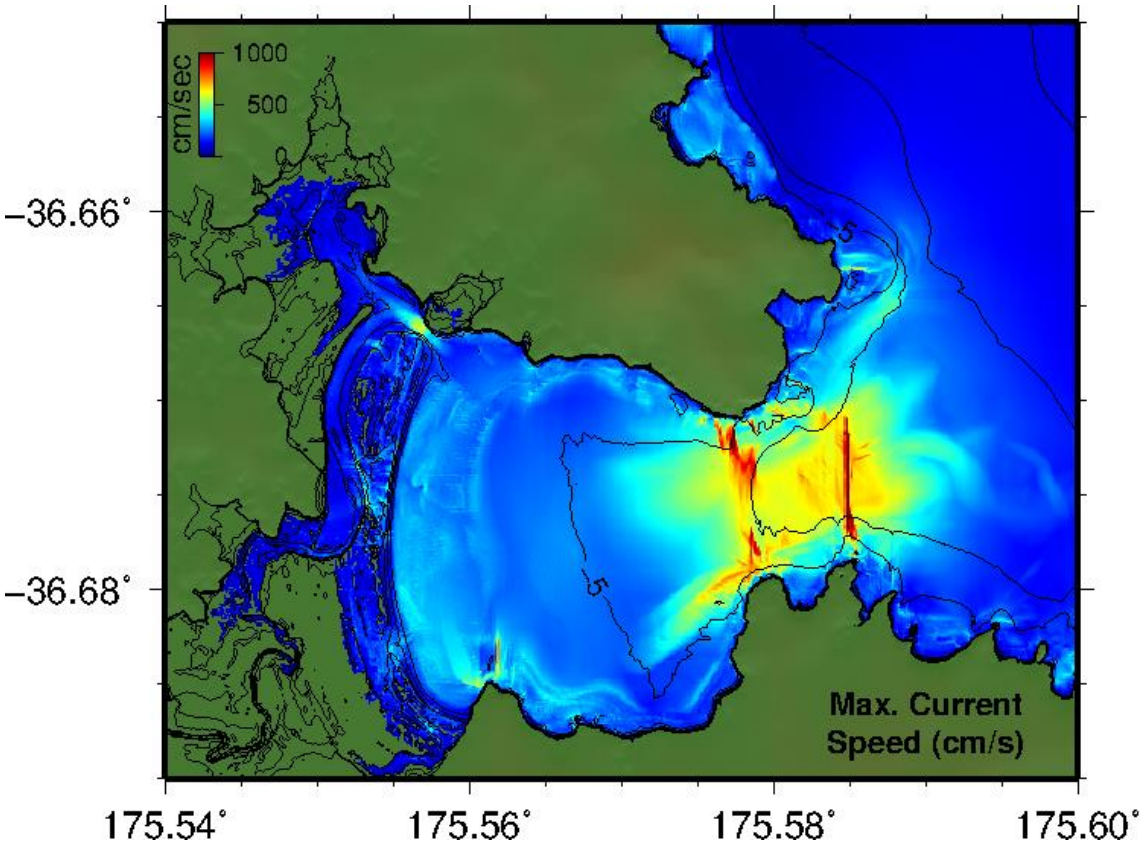
Case 3:


600
300
0
cm
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Maximum
Height (cm)

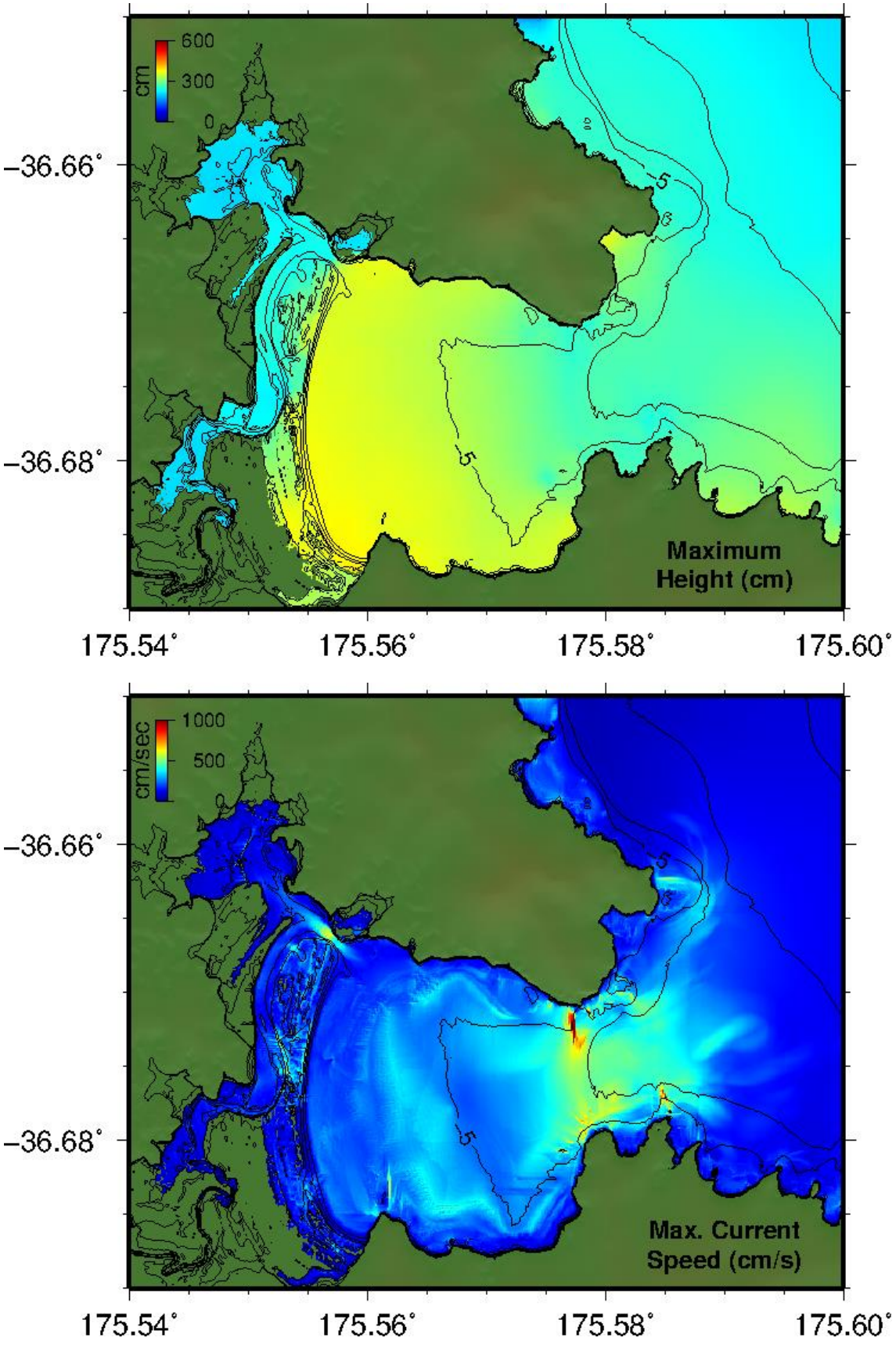

1000
500
0
cm/sec
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Max. Current
Speed (cm/s)

Case 4:

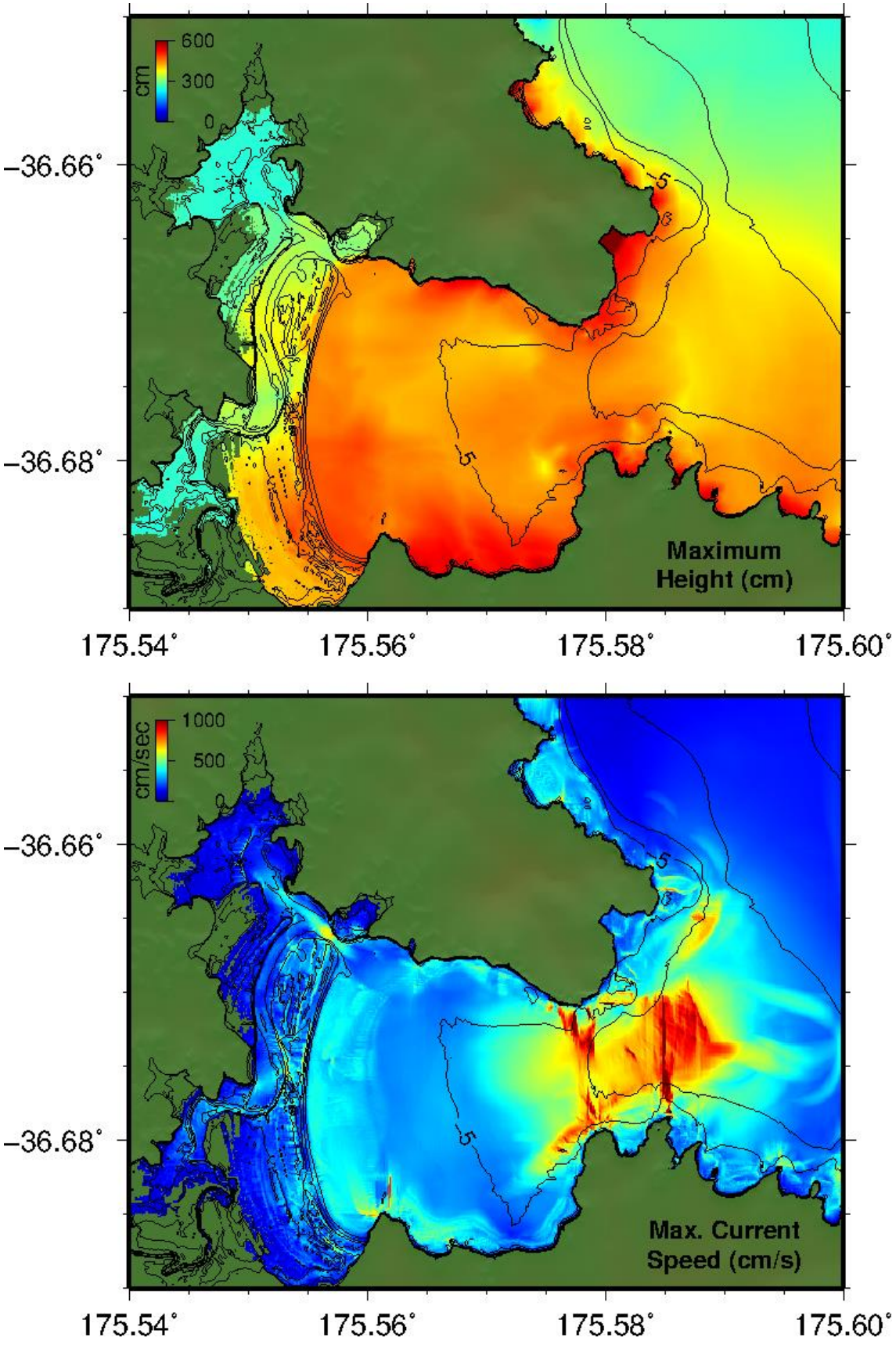

600
300
0
cm
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Maximum
Height (cm)


1000
500
0
cm/sec
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Max. Current
Speed (cm/s)

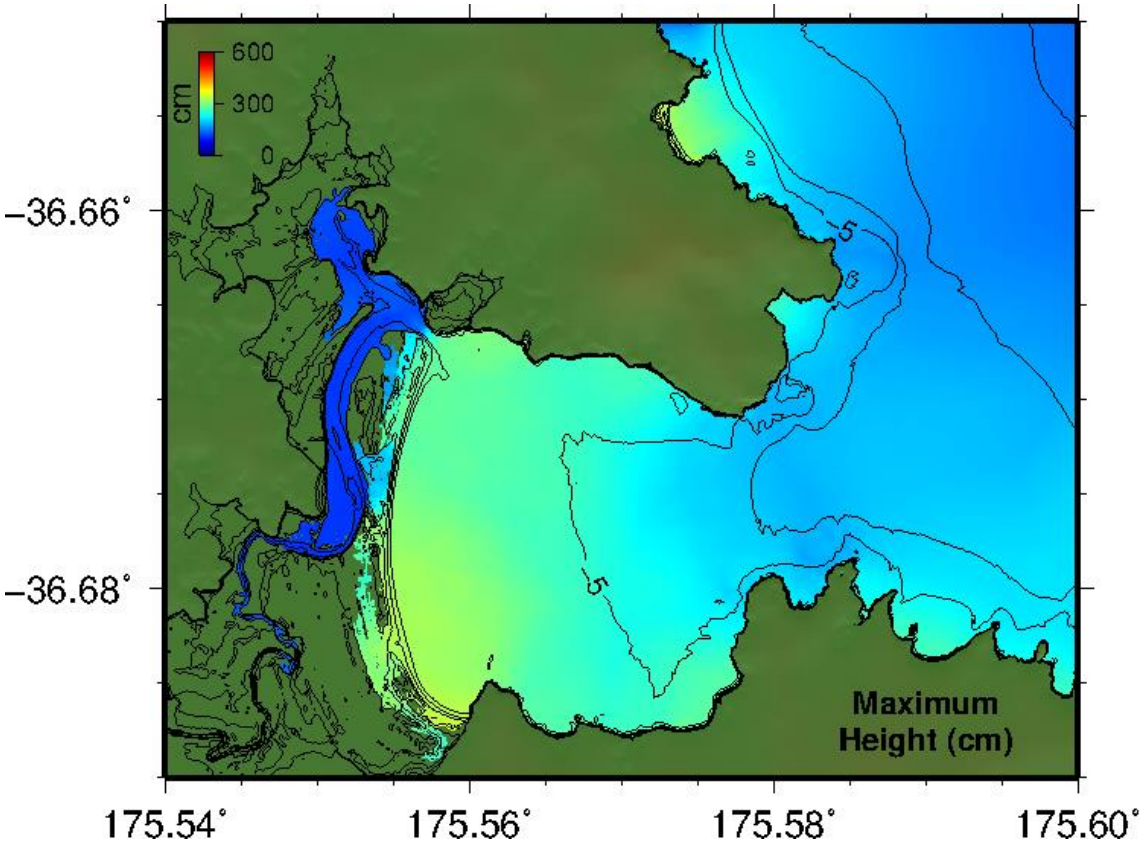
Case 5:

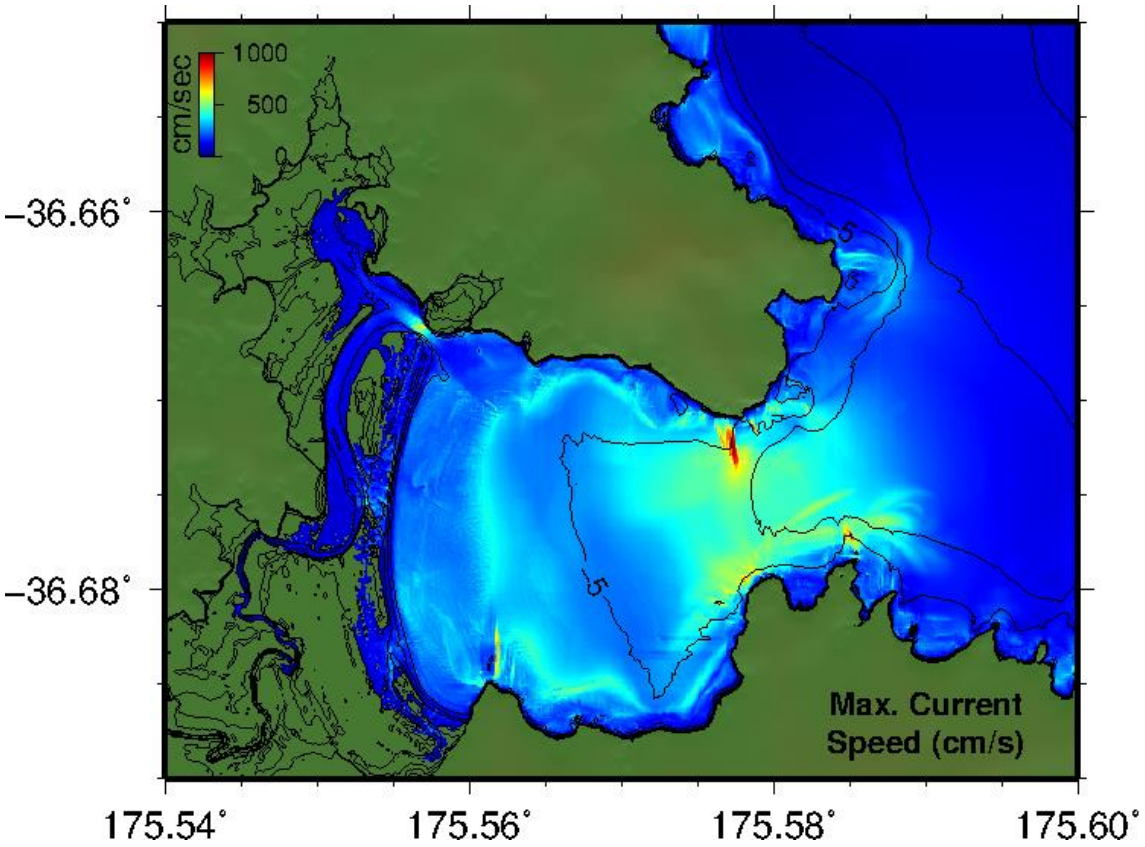

600
300
0
cm
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Maximum
Height (cm)
1000
500
0
cm/sec
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Max. Current
Speed (cm/s)

Case 6:

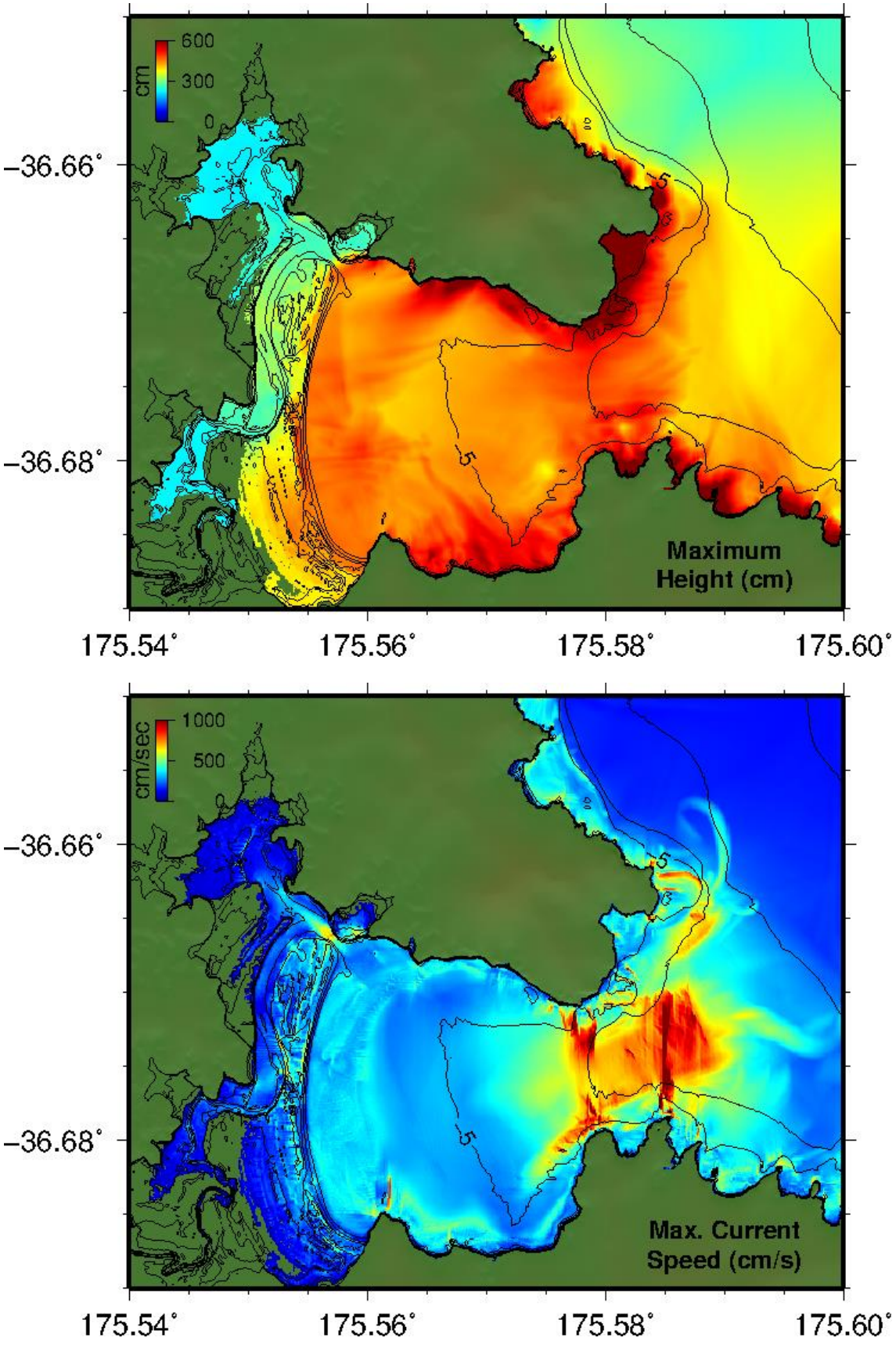

600
300
0
cm
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Maximum
Height (cm)
1000
500
0
cm/sec
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Max. Current
Speed (cm/s)

Case 7:


600
300
0
cm
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Maximum
Height (cm)


1000
500
0
cm/sec
-36.66˚
-36.68˚
175.54˚
175.56˚
175.58˚
175.60˚
Max. Current
Speed (cm/s)

Case 8:


600
300
0
cm
Maximum
Height (cm)
1000
500
0
cm/sec
Max. Current
Speed (cm/s)
−36.66˚
−36.68˚
175.54˚
175.56˚
175.58˚
175.60˚

Case 8 HT:

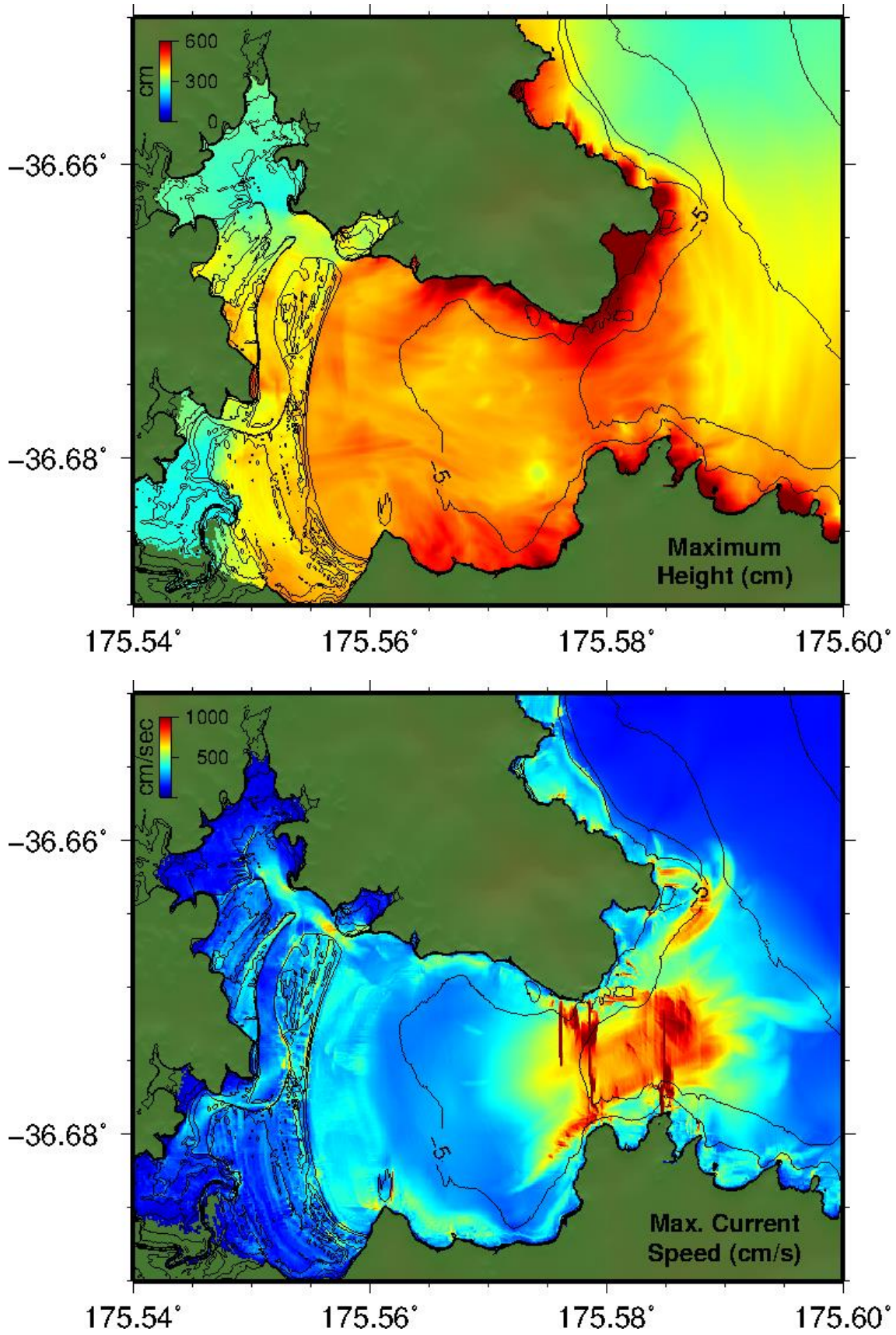
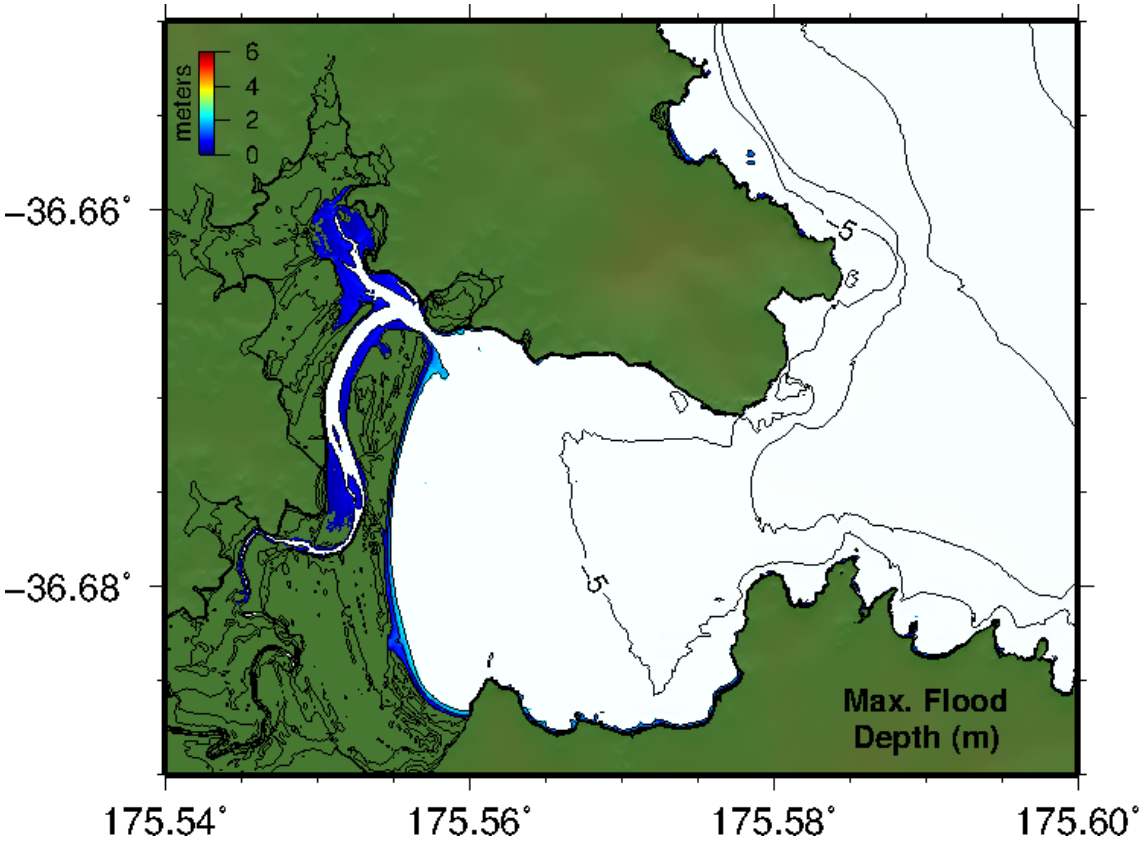
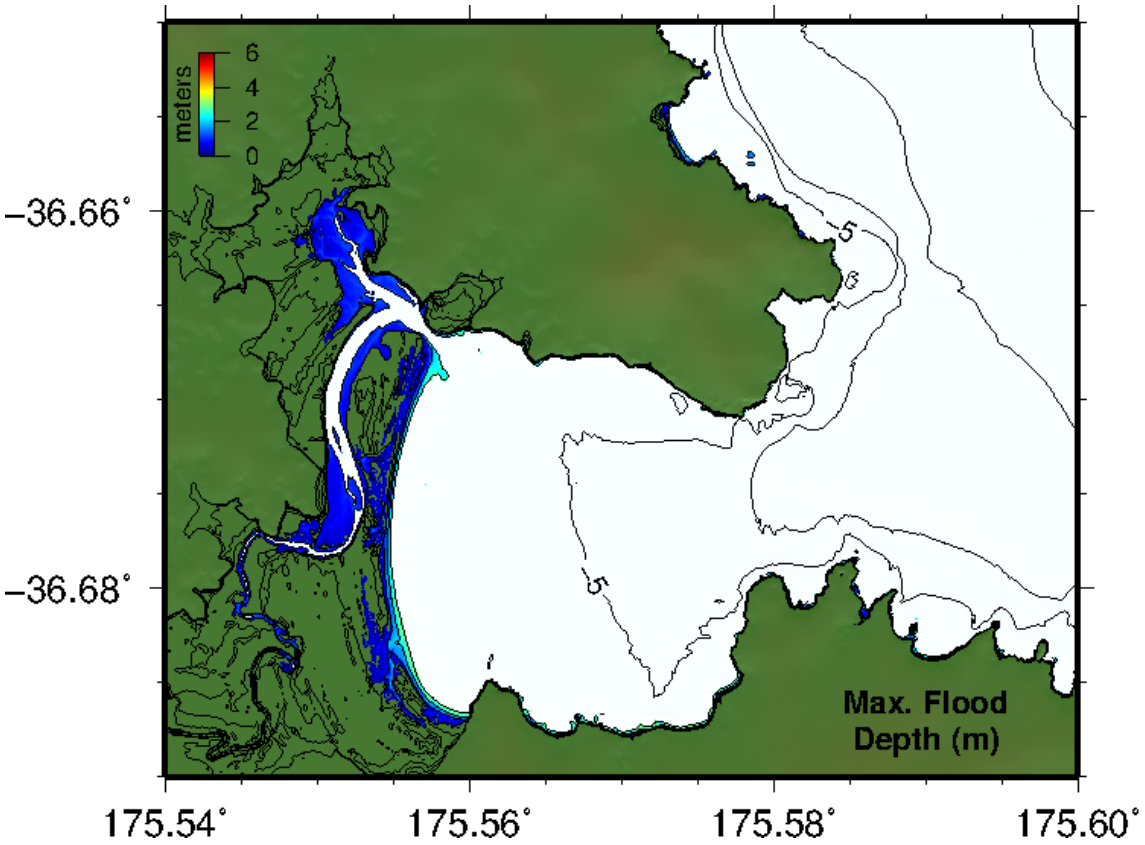



**Figure 2.1 Maximum computed water levels and current speeds for the Kermadec Trench Cases 1-8 in Kennedy Bay at MSL and Case 8 at HT.**

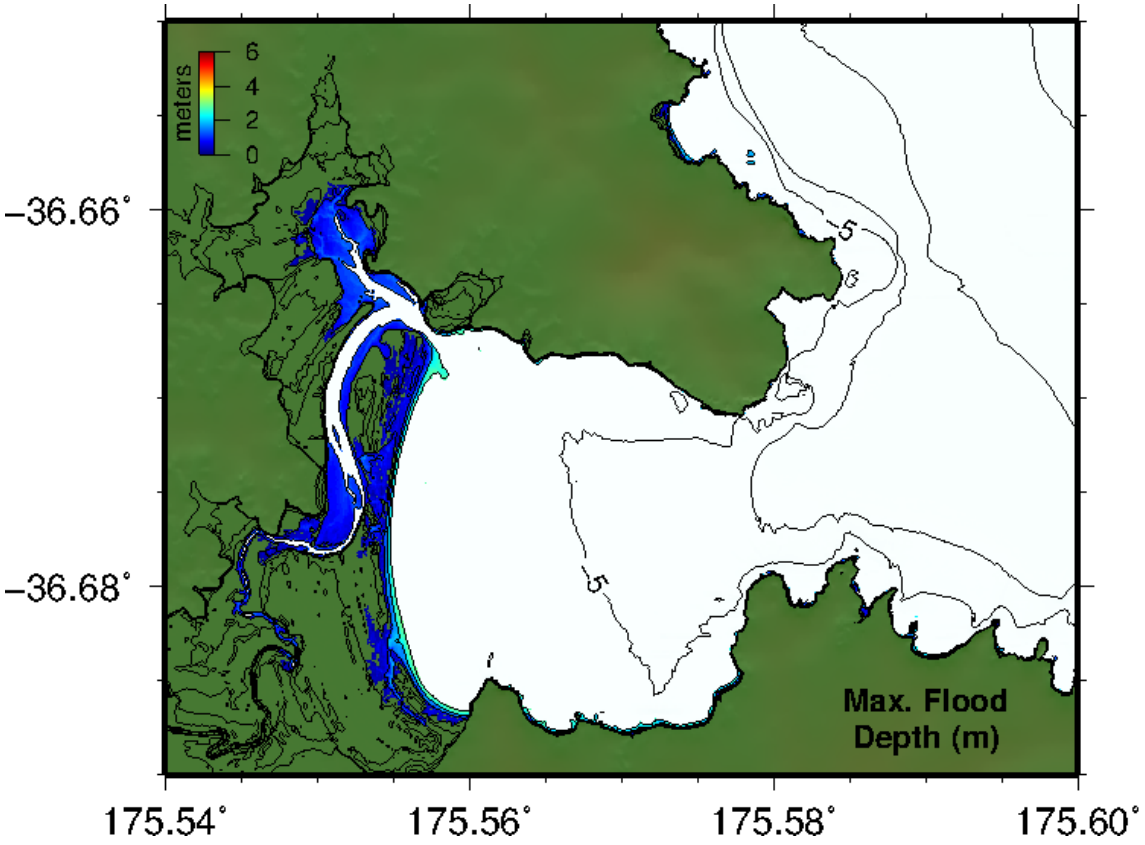
Case 1:


meters
6
4
2
0
−36.66˚
−36.68˚
5
6
5
Max. Flood
Depth (m)
175.54˚
175.56˚
175.58˚
175.60˚

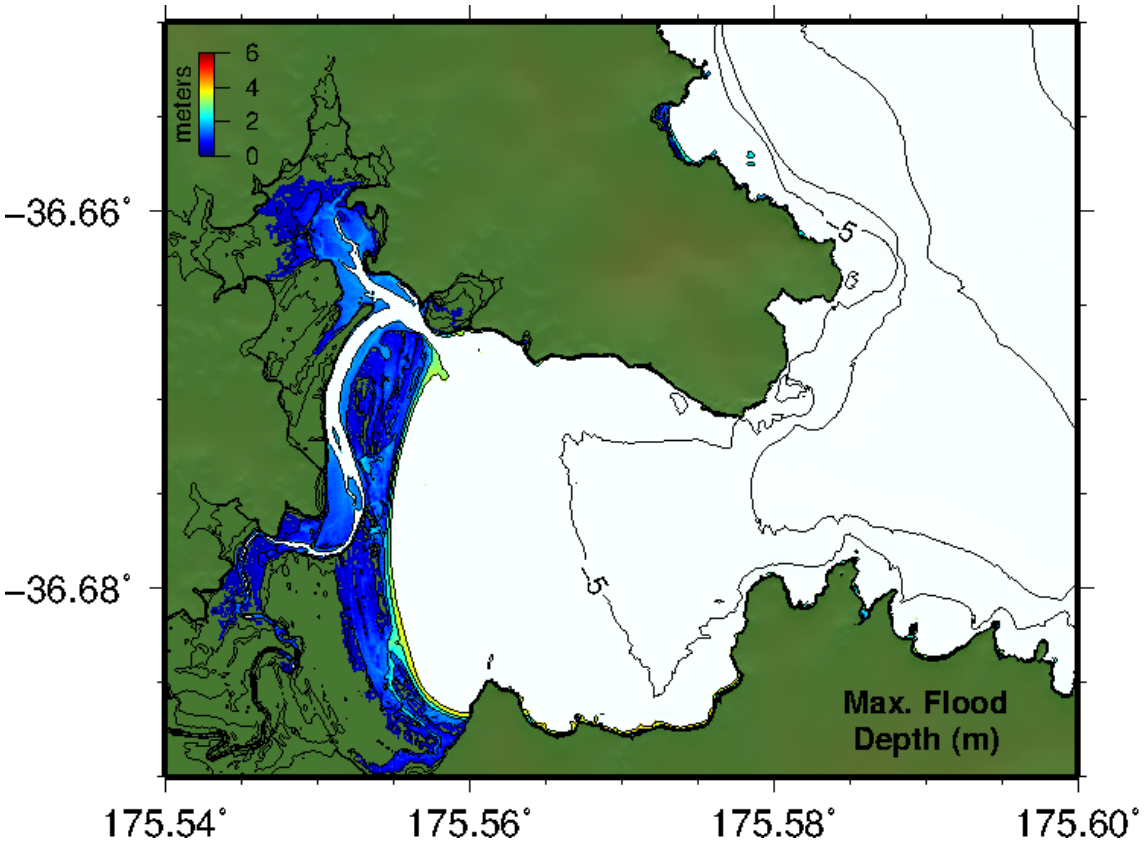
Case 2:


meters
6
4
2
0
−36.66˚
−36.68˚
5
6
5
Max. Flood
Depth (m)
175.54˚
175.56˚
175.58˚
175.60˚

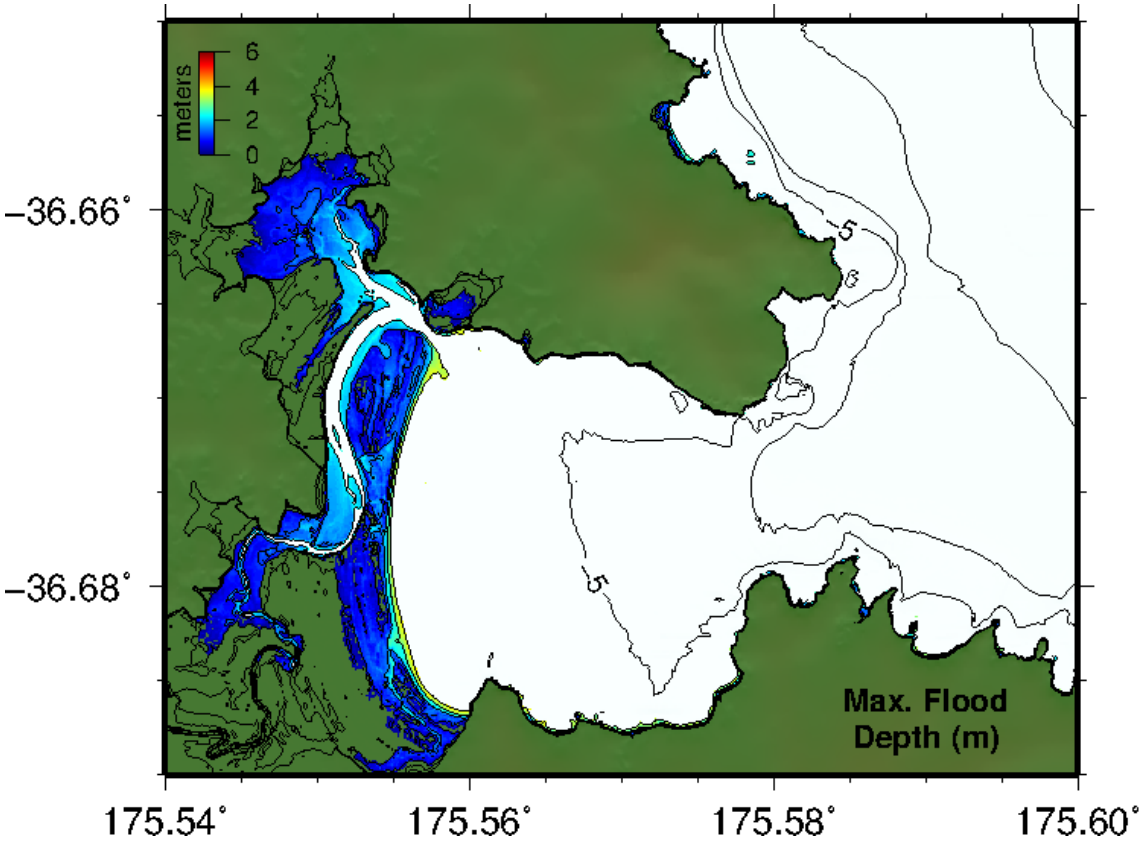
Case 3:


meters
6
4
2
0
-36.66˚
-36.68˚
5
6
5
Max. Flood
Depth (m)
175.54˚
175.56˚
175.58˚
175.60˚

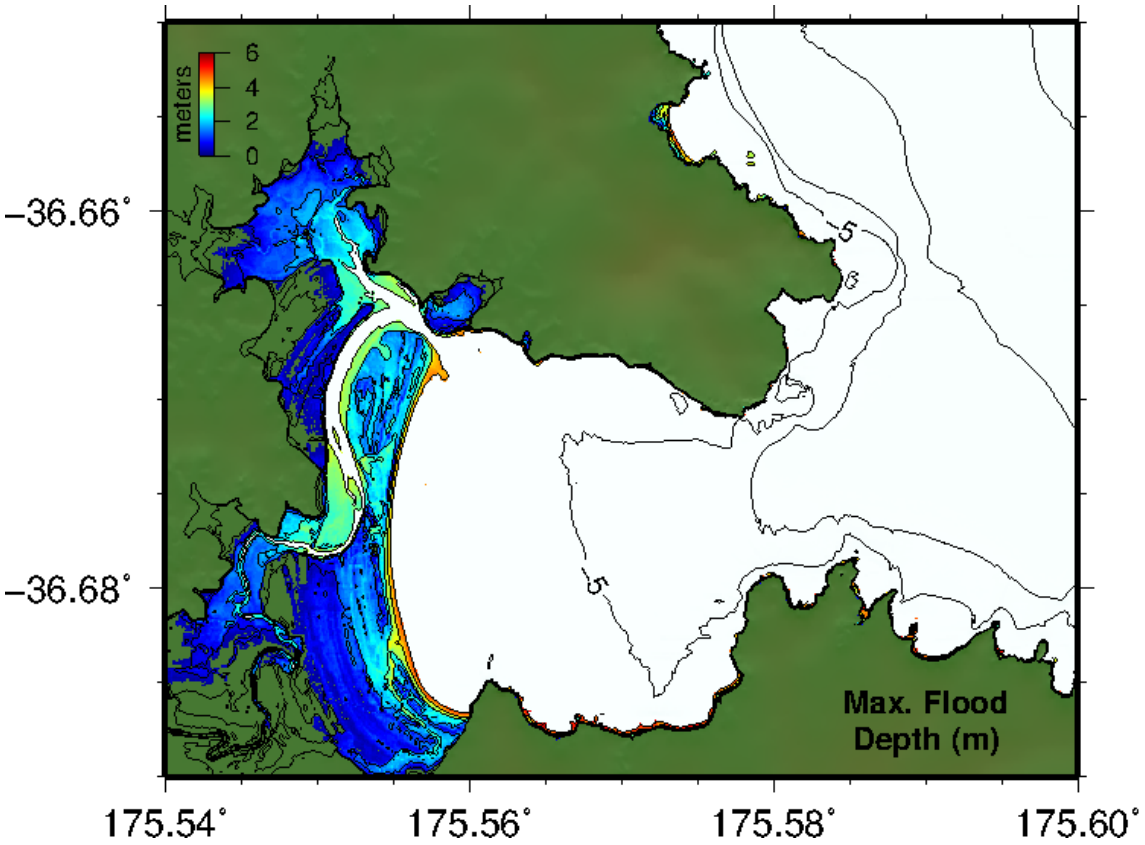
Case 4:


meters
6
4
2
0
-36.66˚
-36.68˚
5
6
5
Max. Flood
Depth (m)
175.54˚
175.56˚
175.58˚
175.60˚

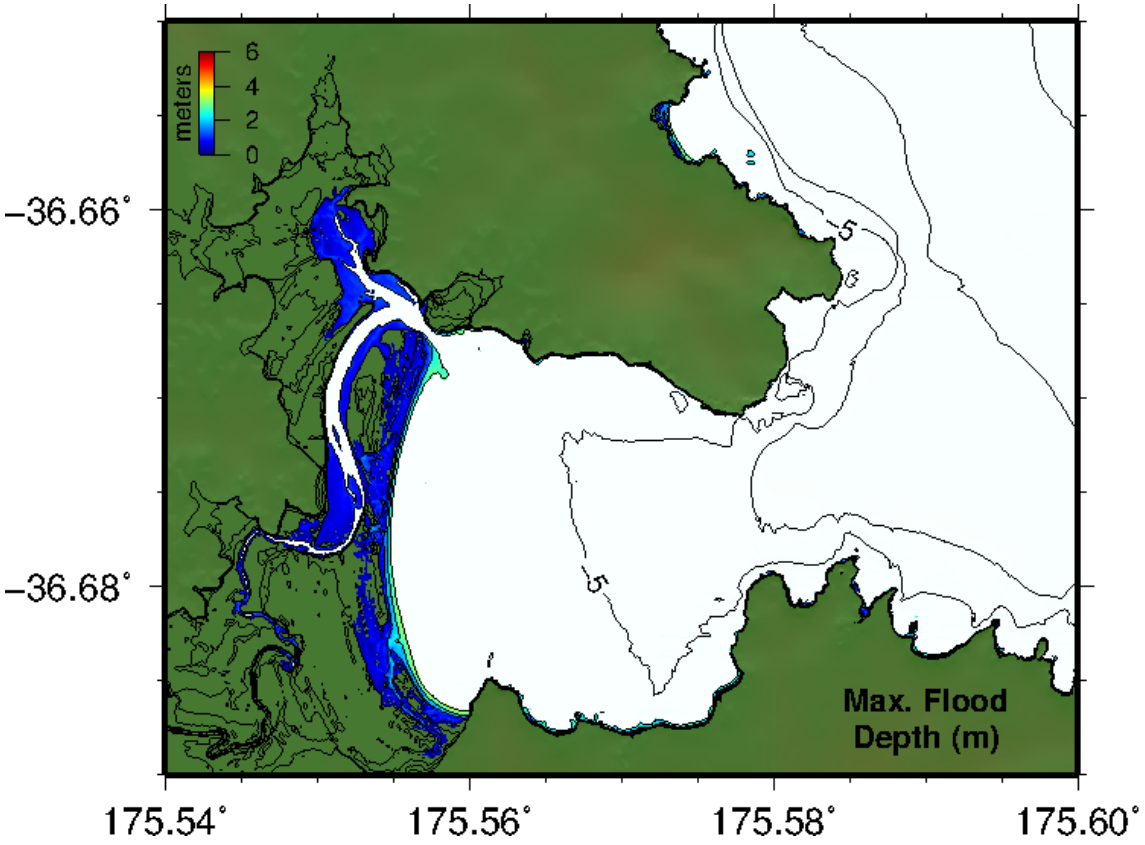
Case 5:


meters
6
4
2
0
-36.66˚
-36.68˚
5
6
5
Max. Flood
Depth (m)
175.54˚
175.56˚
175.58˚
175.60˚

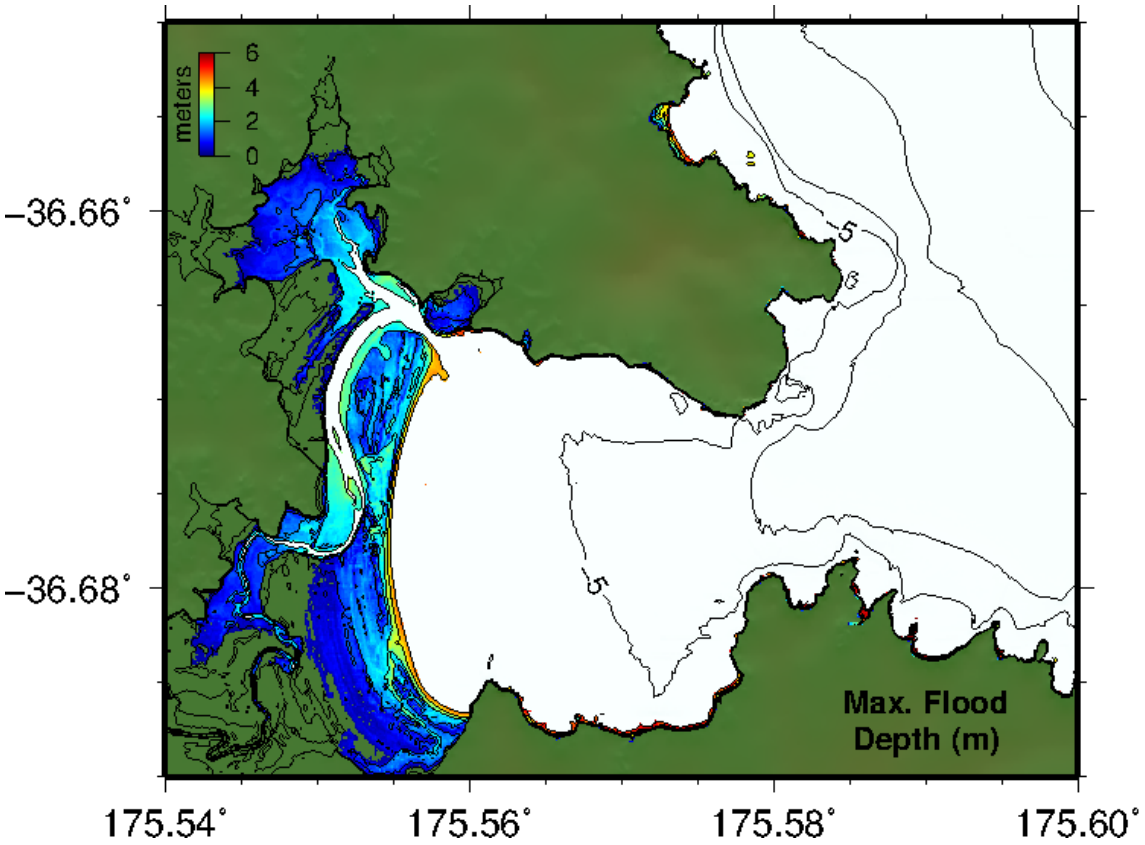
Case 6:


meters
6
4
2
0
-36.66˚
-36.68˚
5
6
5
Max. Flood
Depth (m)
175.54˚
175.56˚
175.58˚
175.60˚

Case 8:


meters
6
4
2
0
−36.66˚
−36.68˚
5
6
5
Max. Flood
Depth (m)
175.54˚
175.56˚
175.58˚
175.60˚

Case 8:


meters
6
4
2
0
−36.66˚
−36.68˚
5
6
5
Max. Flood
Depth (m)
175.54˚
175.56˚
175.58˚
175.60˚

Case 8 HT:

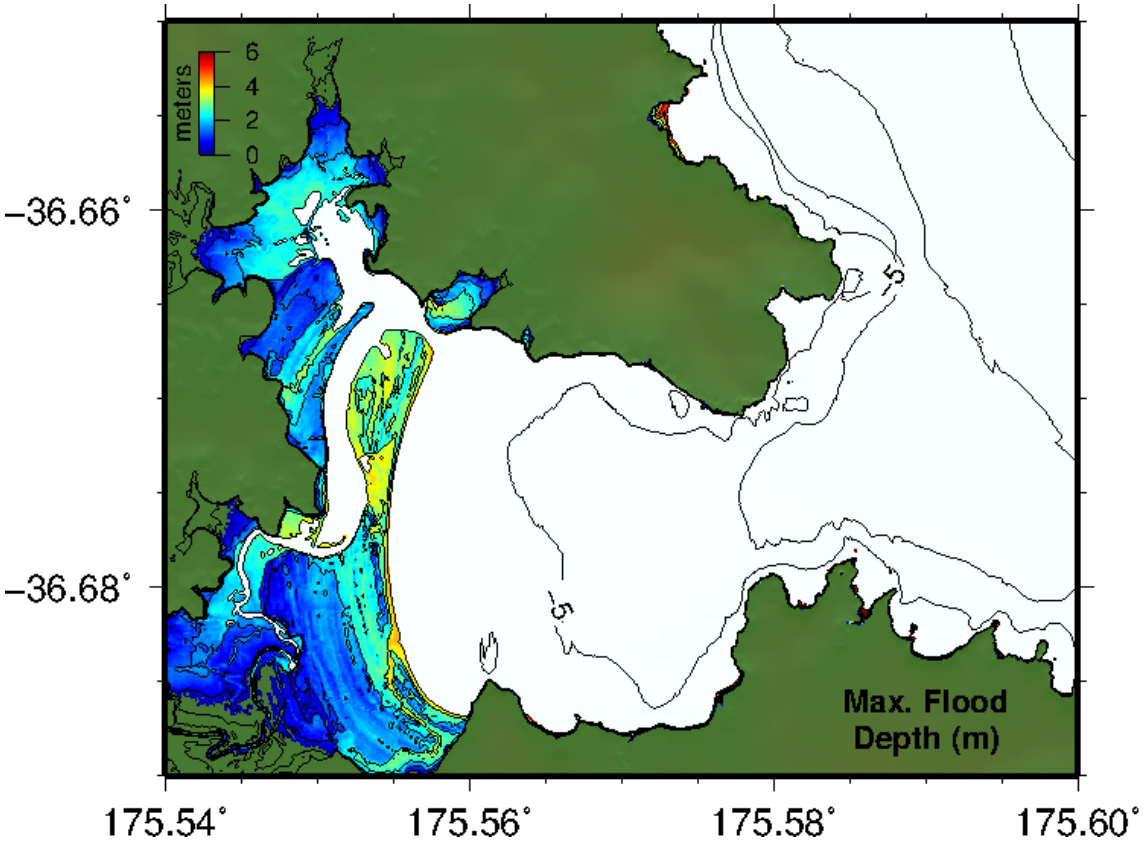
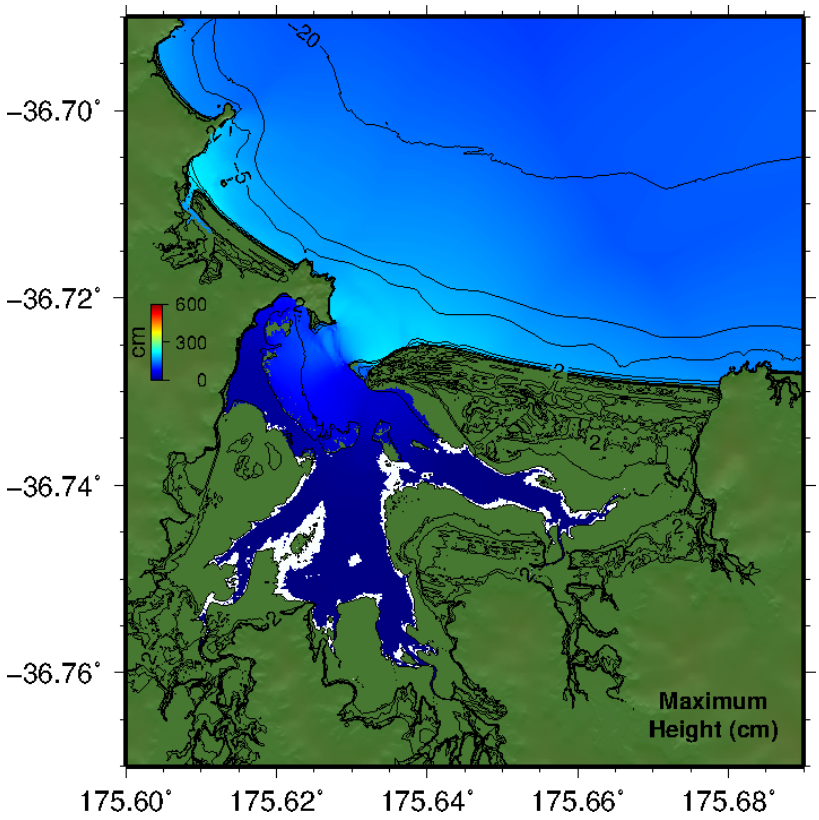
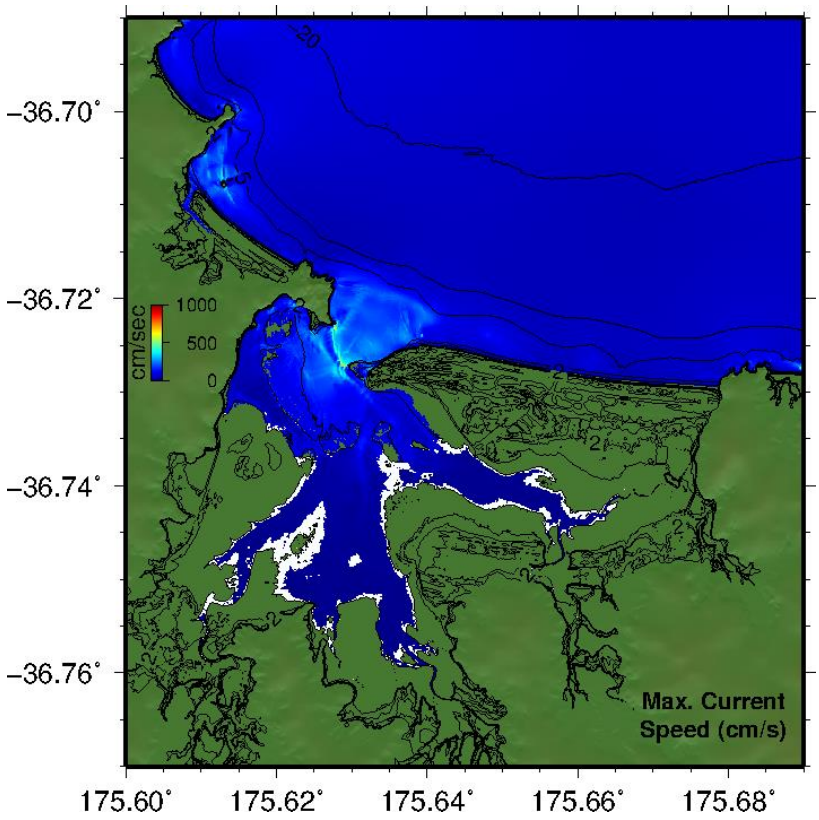



**Figure 2.2 Maximum computed overland flood depths for the Kermadec Trench Cases 1-8 in Kennedy Bay at MSL and Case 8 at HT.**

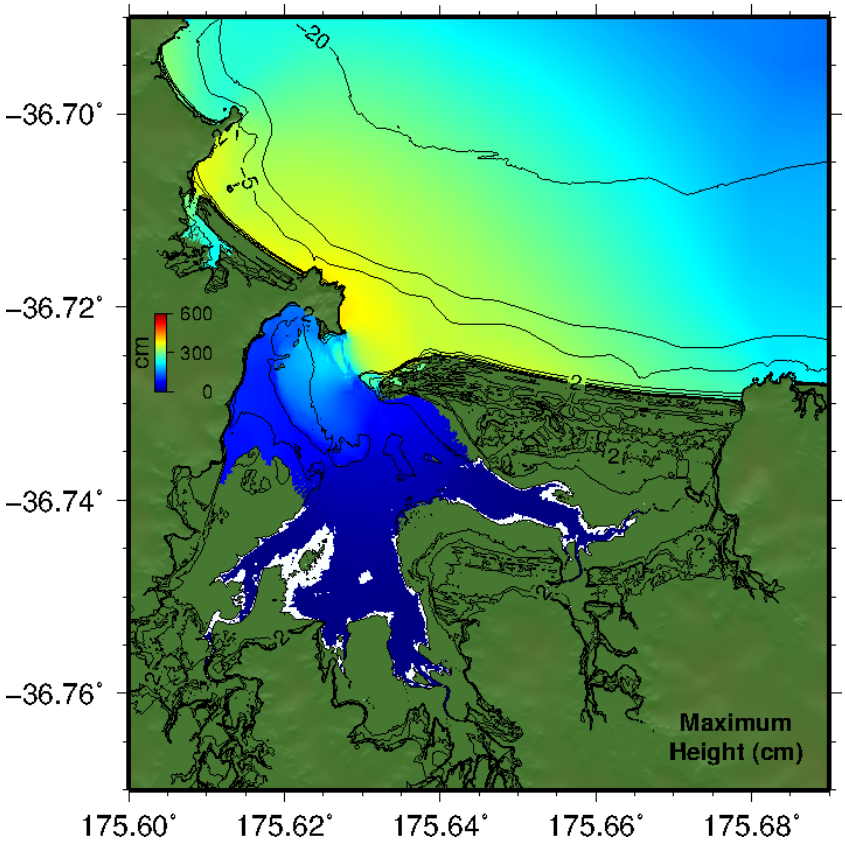
# 3 APPENDIX 3 – WHANGAPOUA: TK TRENCH SOURCES

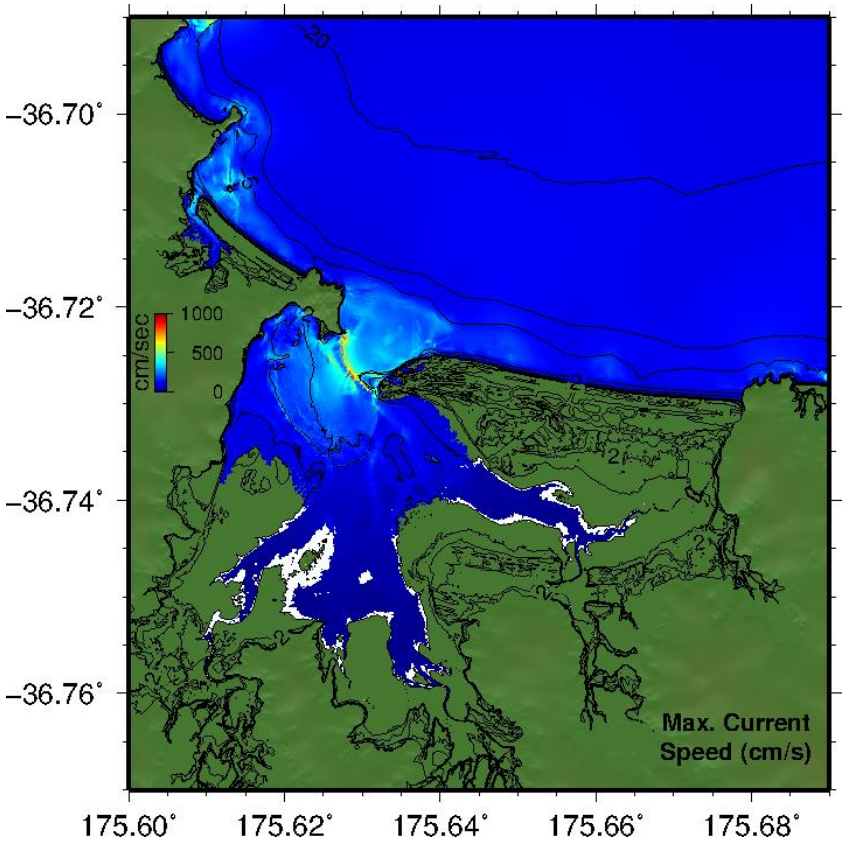
Case 1:



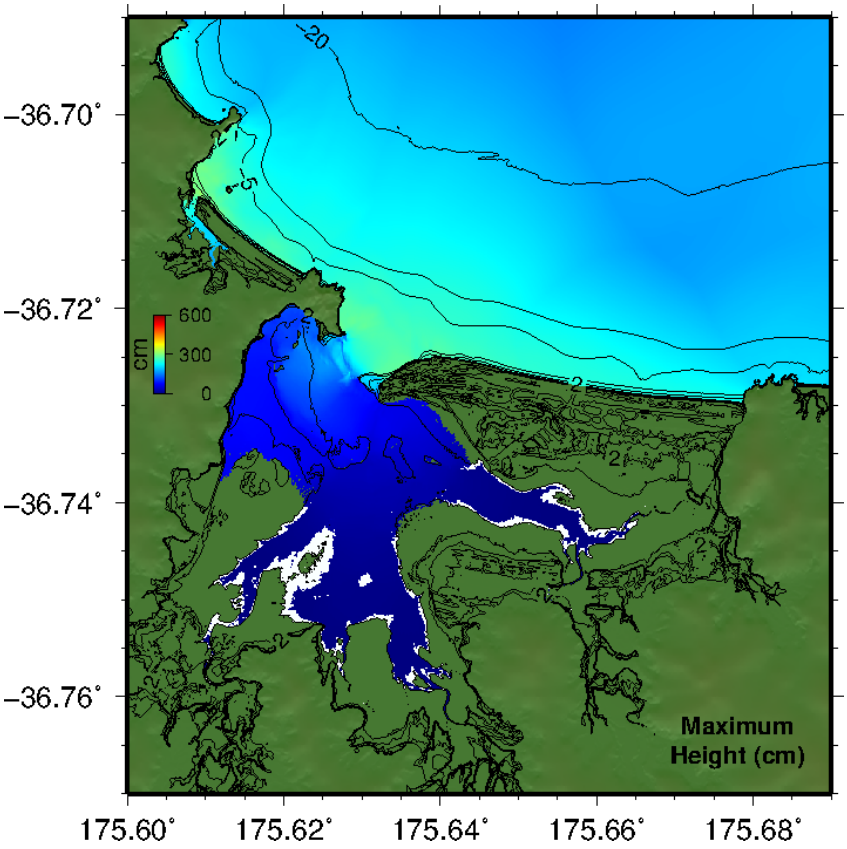



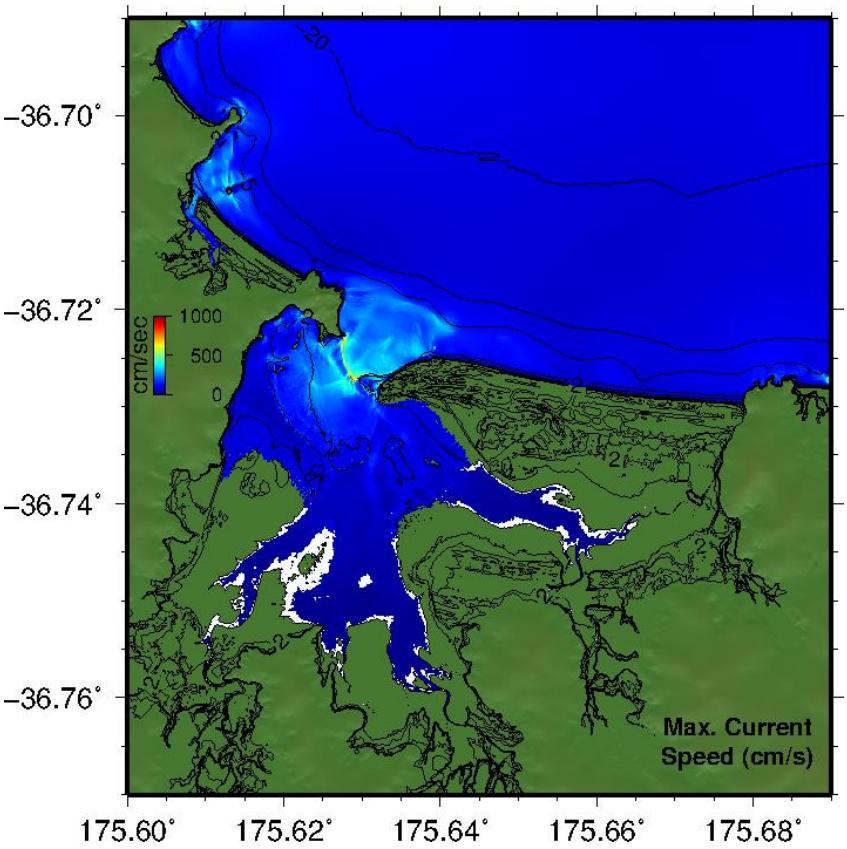
Case 2:


−36.70˚
−36.72˚
−36.74˚
−36.76˚
cm
600
300
0
20
5
2
Maximum
Height (cm)
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚

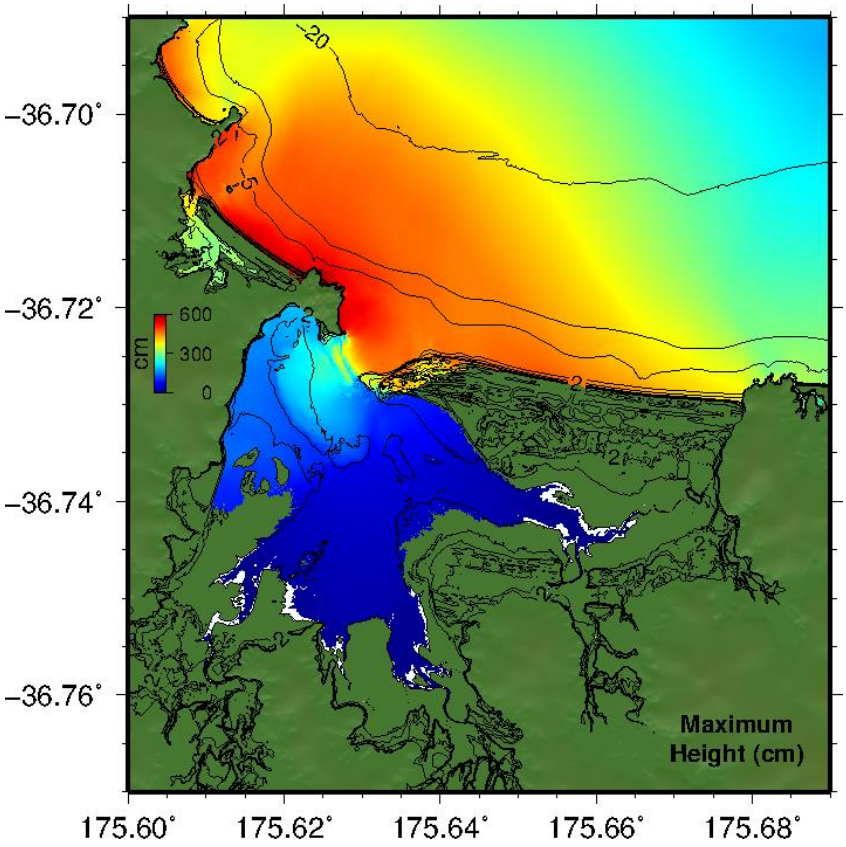

−36.70˚
−36.72˚
−36.74˚
−36.76˚
cm/sec
1000
500
0
20
2
Max. Current
Speed (cm/s)
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚

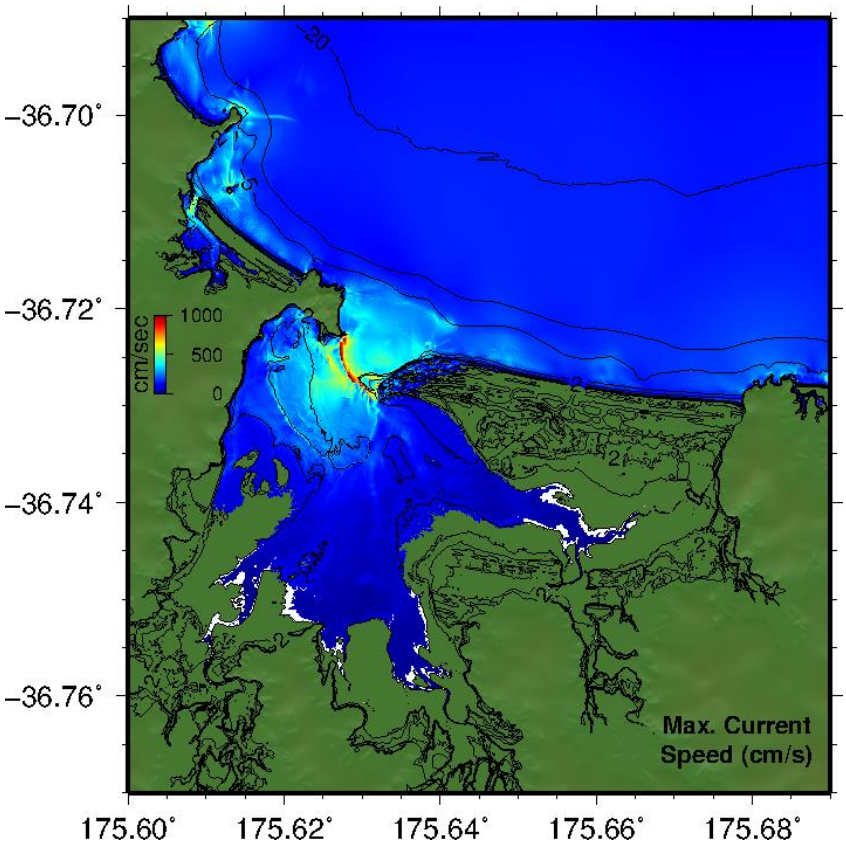
Case 3:


-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm
600
300
0
Maximum
Height (cm)

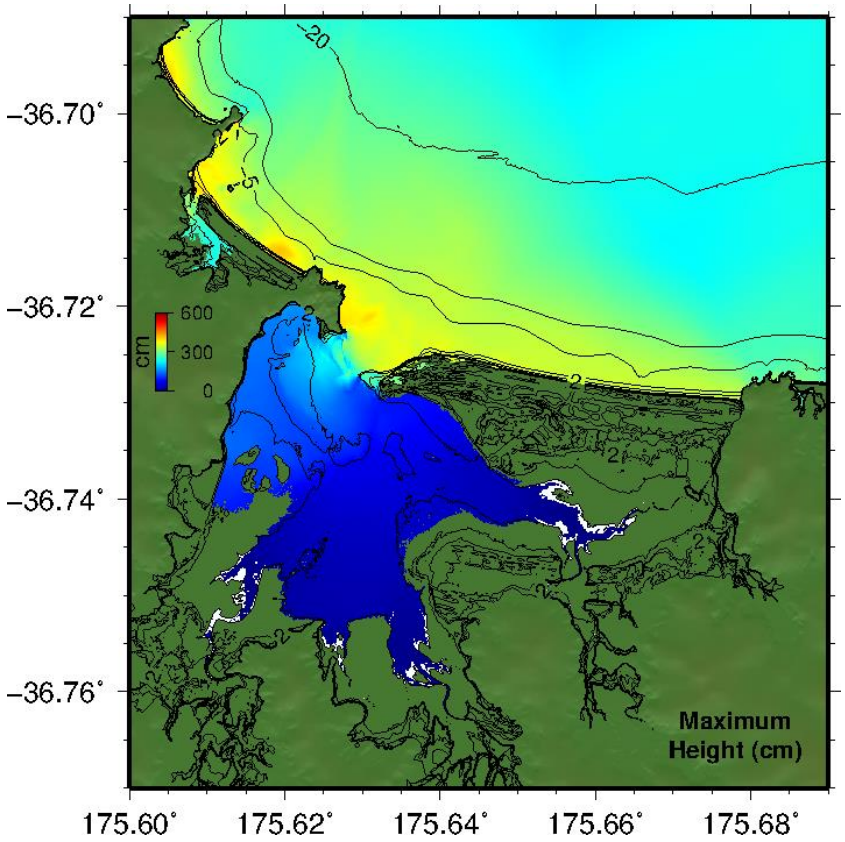

-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm/sec
1000
500
0
Max. Current
Speed (cm/s)

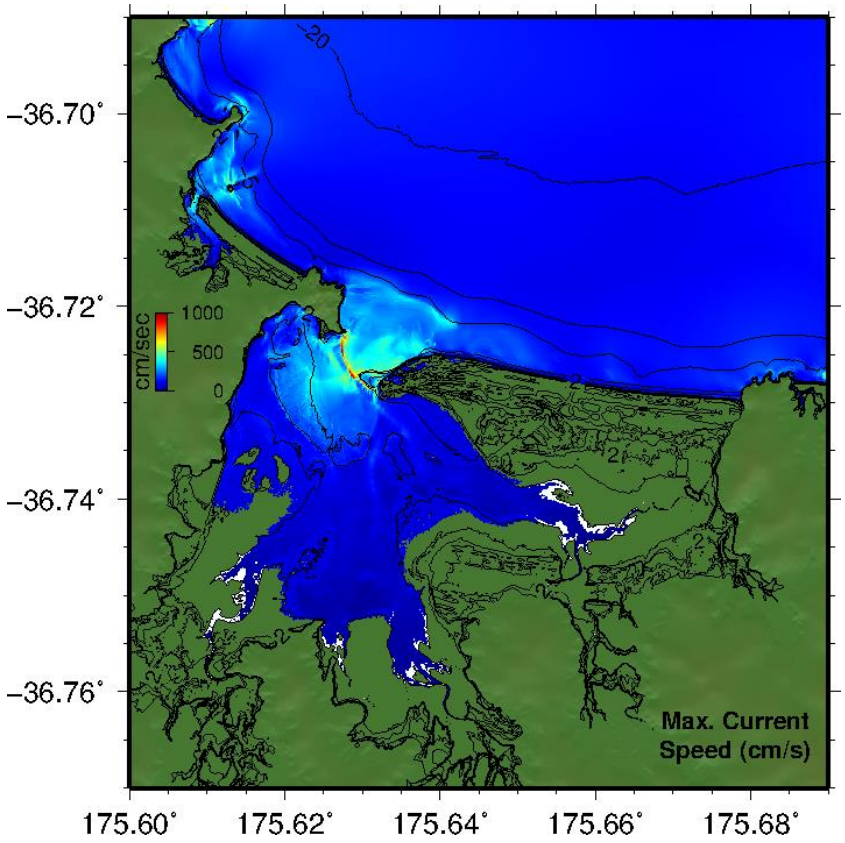
Case 4:


-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm
600
300
0
Maximum
Height (cm)

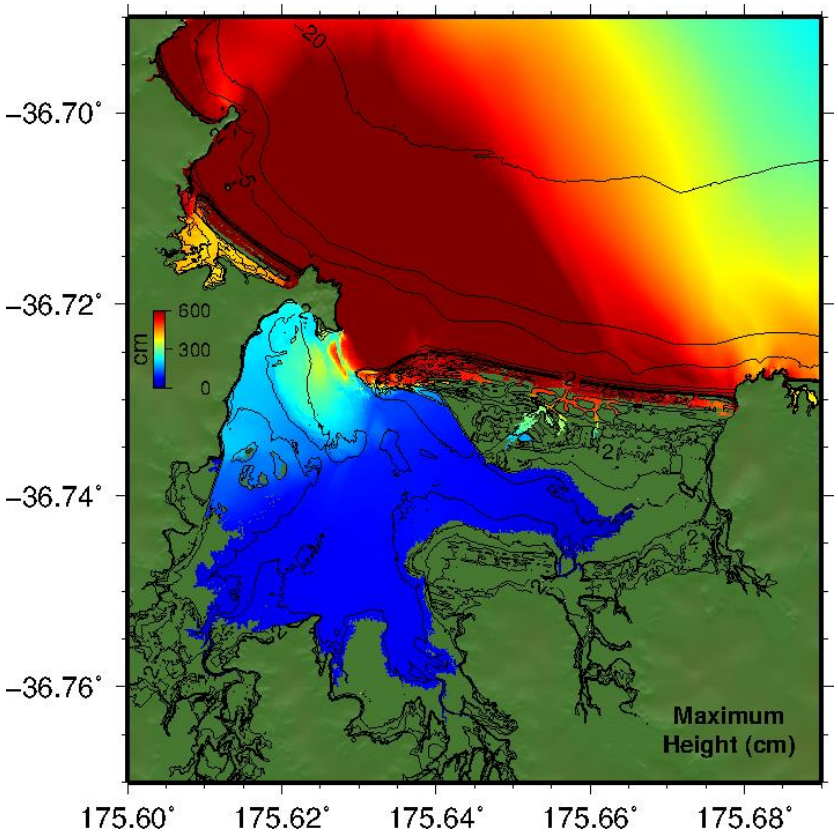

-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm/sec
1000
500
0
Max. Current
Speed (cm/s)

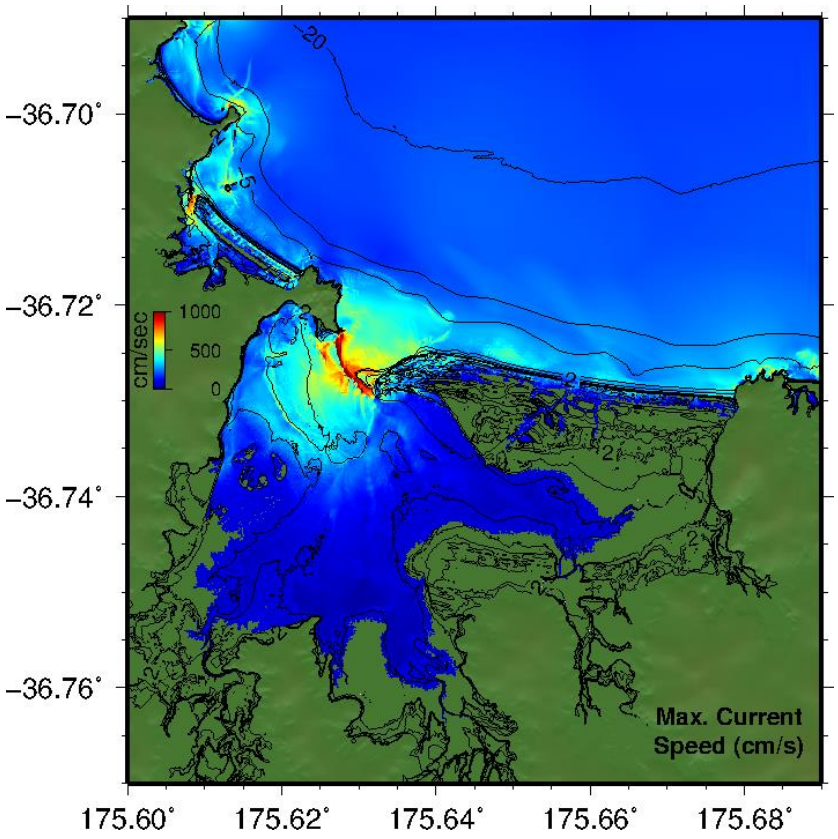
Case 5:


-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm
600
300
0
Maximum
Height (cm)

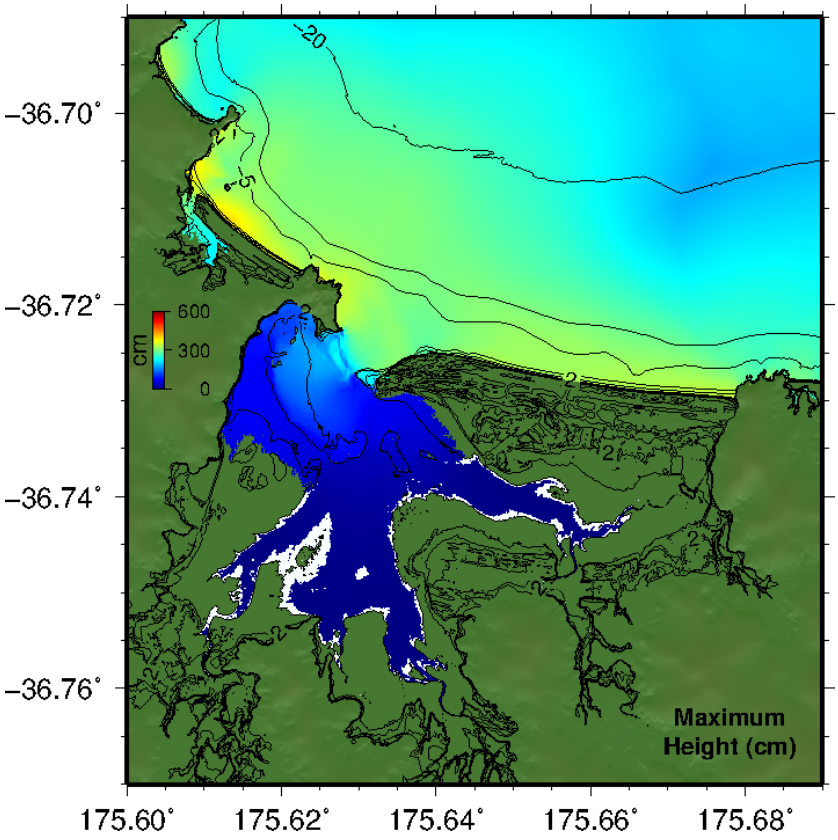

-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm/sec
1000
500
0
Max. Current
Speed (cm/s)

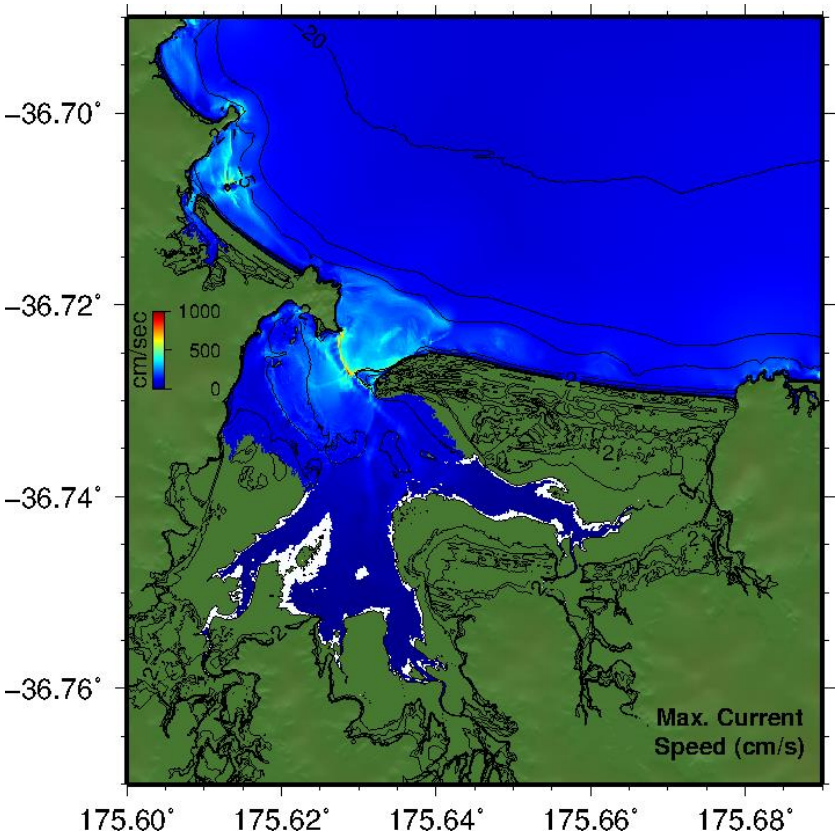
Case 6:


-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm
600
300
0
20
2
Maximum
Height (cm)

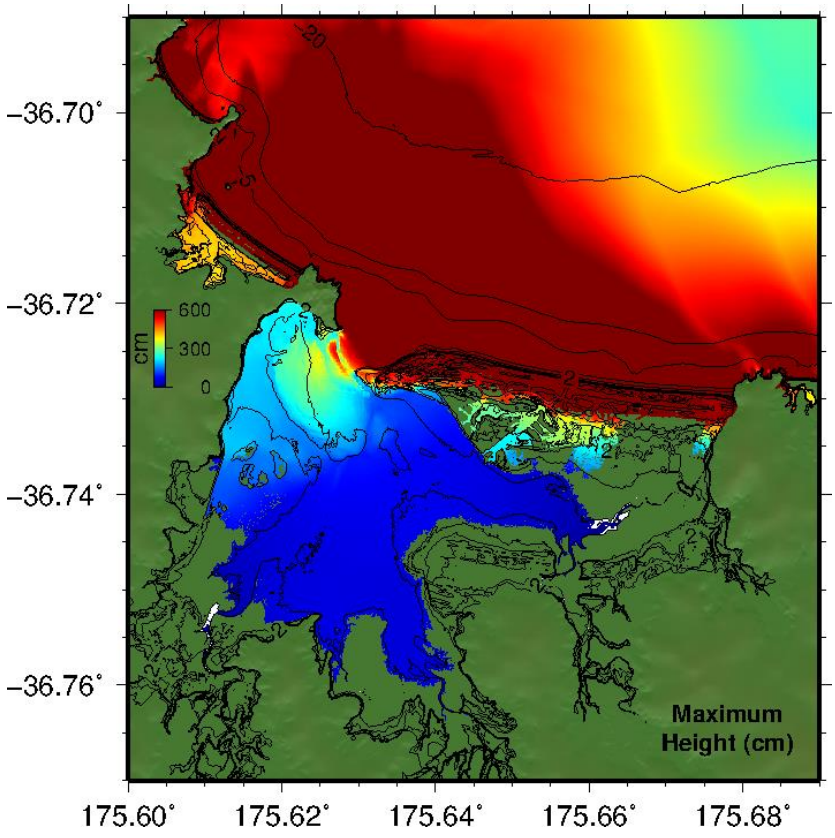

-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm/sec
1000
500
0
20
2
Max. Current
Speed (cm/s)

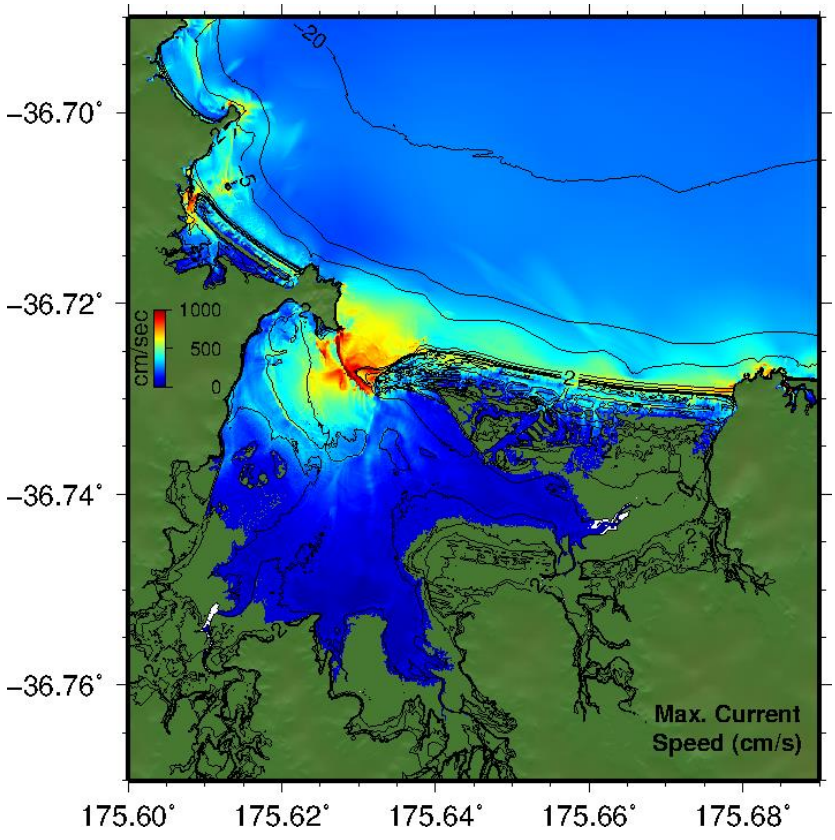
Case 7:


−36.70˚
−36.72˚
−36.74˚
−36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm
600
300
0
Maximum
Height (cm)


−36.70˚
−36.72˚
−36.74˚
−36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm/sec
1000
500
0
Max. Current
Speed (cm/s)

Case 8:


-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm
600
300
0
Maximum
Height (cm)


-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
cm/sec
1000
500
0
Max. Current
Speed (cm/s)

Case 8 HT:

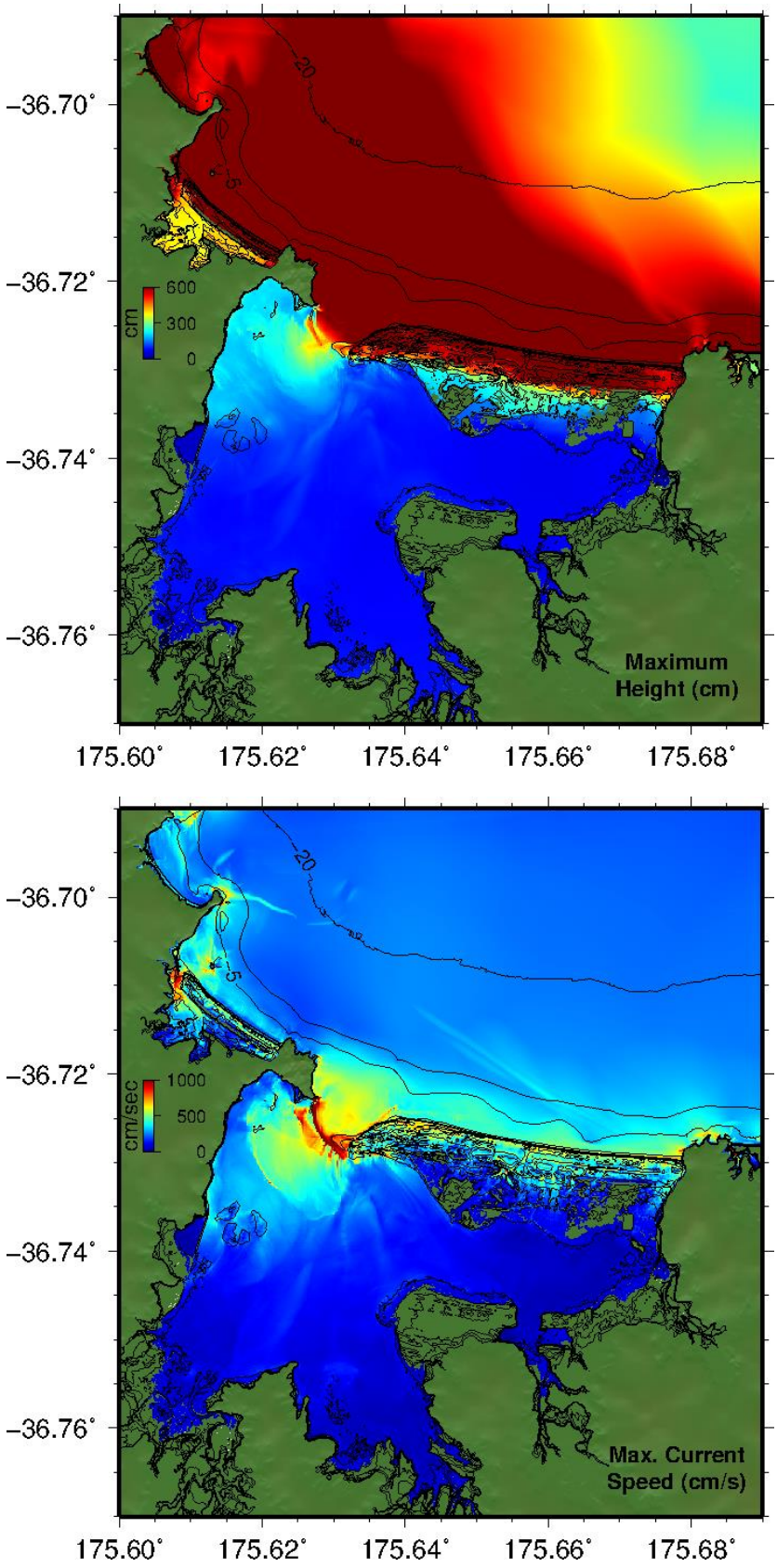
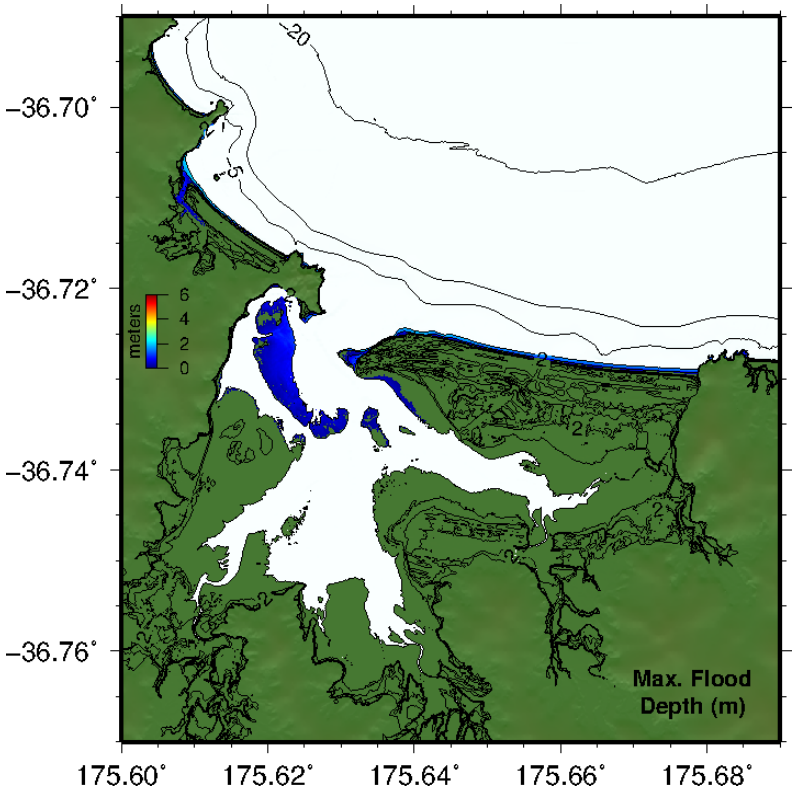
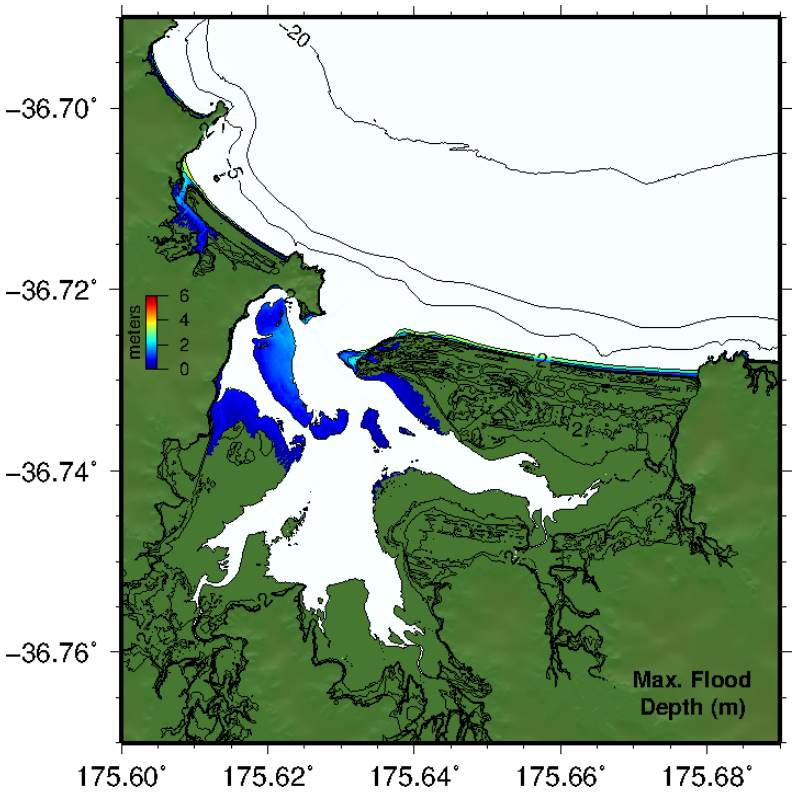



**Figure 3.1 Maximum computed water levels and current speeds for the Kermadec Trench Cases 1-8 in Whangapoua at MSL and Case 8 at HT.**

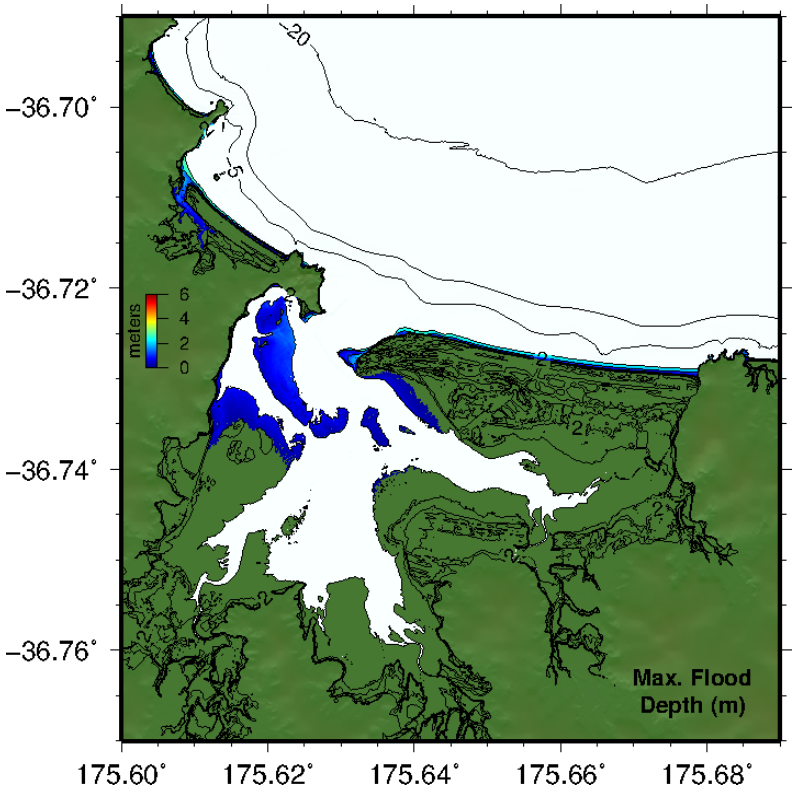
Case 1:


-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
meters
6
4
2
0
-20
-1
-5
2
Max. Flood
Depth (m)

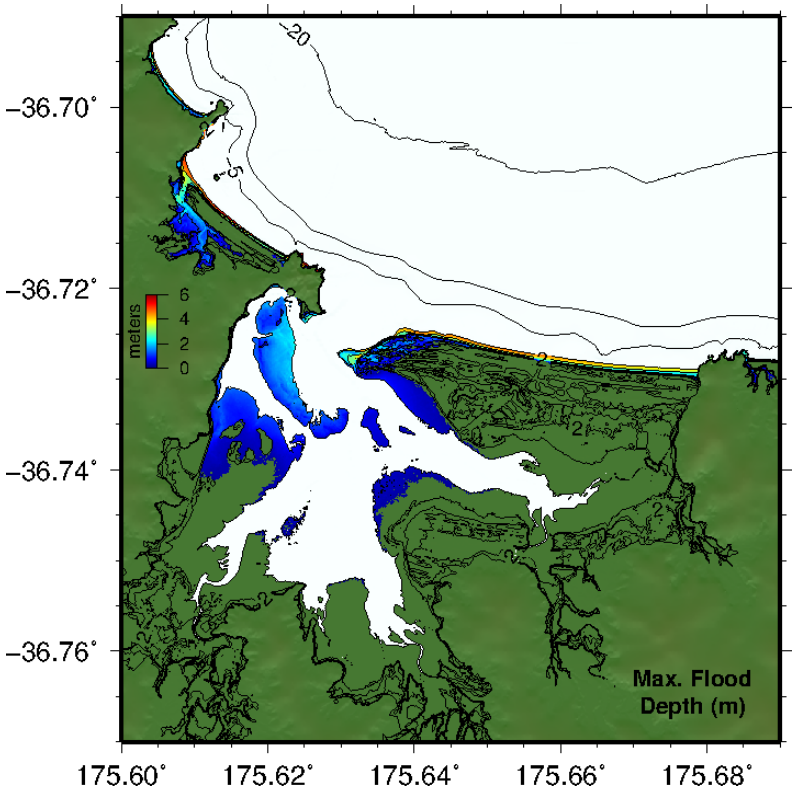
Case 2:


-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
meters
6
4
2
0
-20
-1
-5
2
Max. Flood
Depth (m)

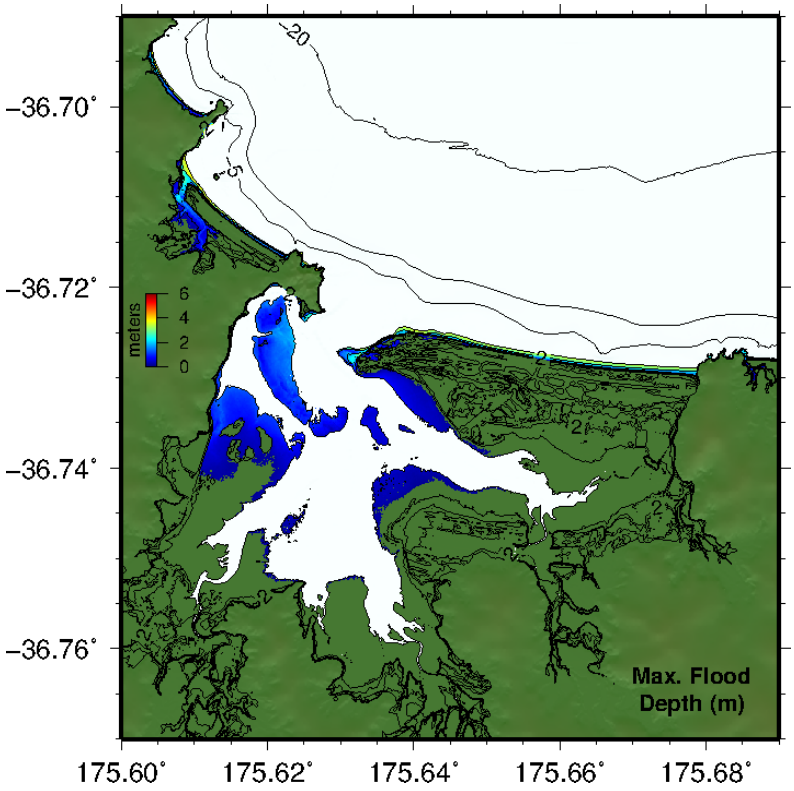
Case 3:


-20
-1
-5
-2
2
2
2
meters
6
4
2
0
Max. Flood
Depth (m)
-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚

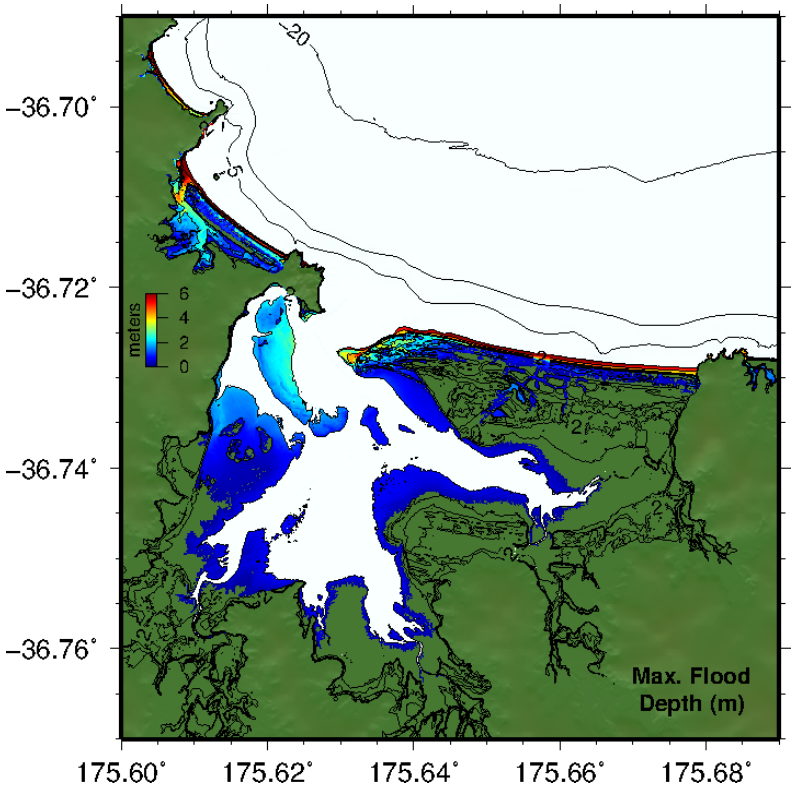
Case 4:


-20
-1
-5
-2
2
2
2
meters
6
4
2
0
Max. Flood
Depth (m)
-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚

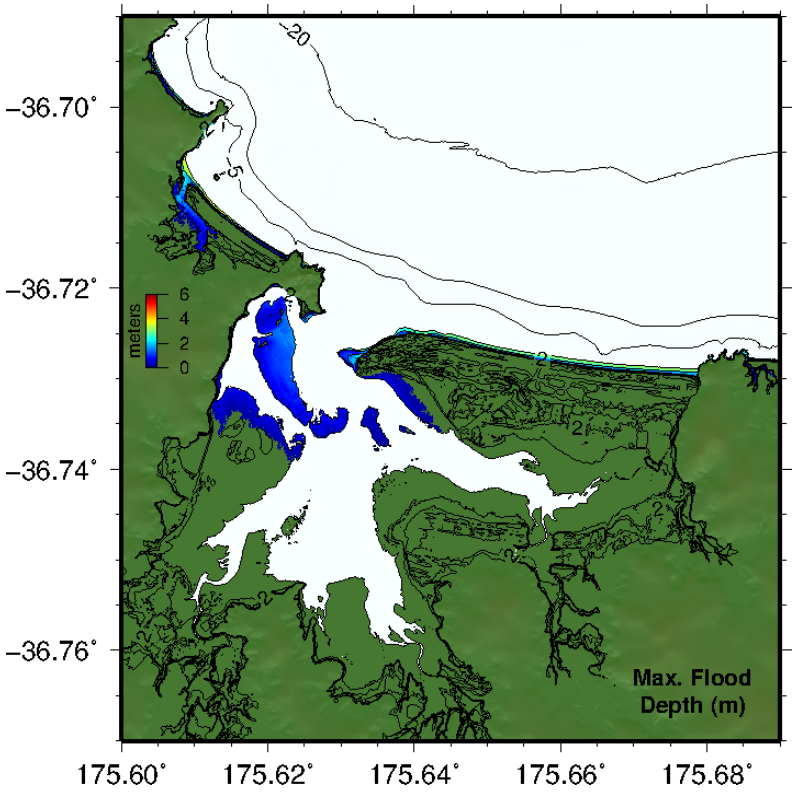
Case 5:


−36.70˚
−36.72˚
−36.74˚
−36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
meters
6
4
2
0
Max. Flood
Depth (m)

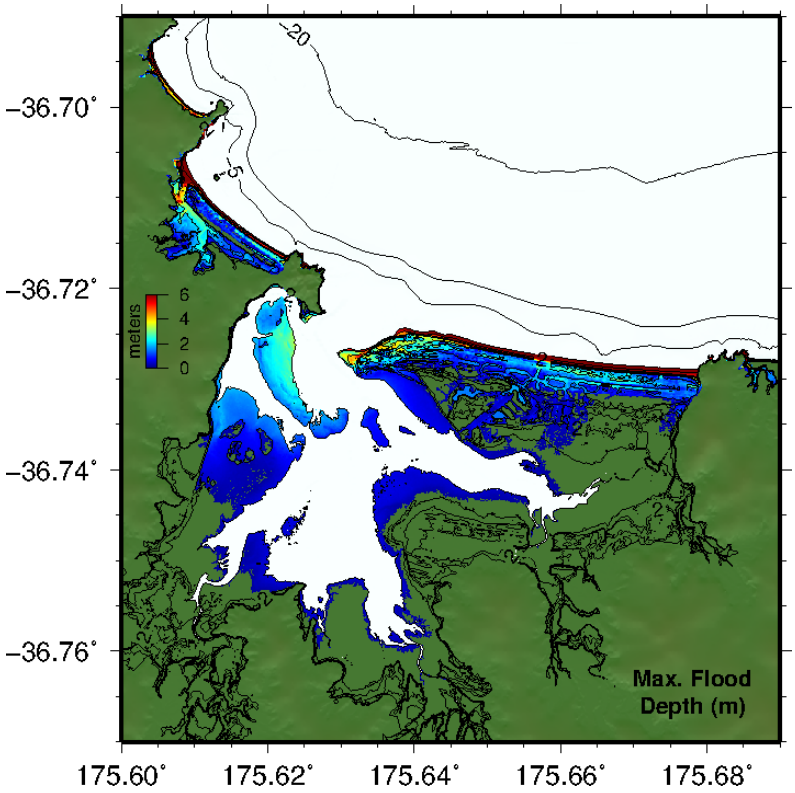
Case 6:


−36.70˚
−36.72˚
−36.74˚
−36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚
meters
6
4
2
0
Max. Flood
Depth (m)

Case 7:


-20
-1
-5
-2
meters
6
4
2
0
Max. Flood
Depth (m)
-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚

Case 8:


-20
-1
-5
-2
meters
6
4
2
0
Max. Flood
Depth (m)
-36.70˚
-36.72˚
-36.74˚
-36.76˚
175.60˚
175.62˚
175.64˚
175.66˚
175.68˚

Case 8 HT:

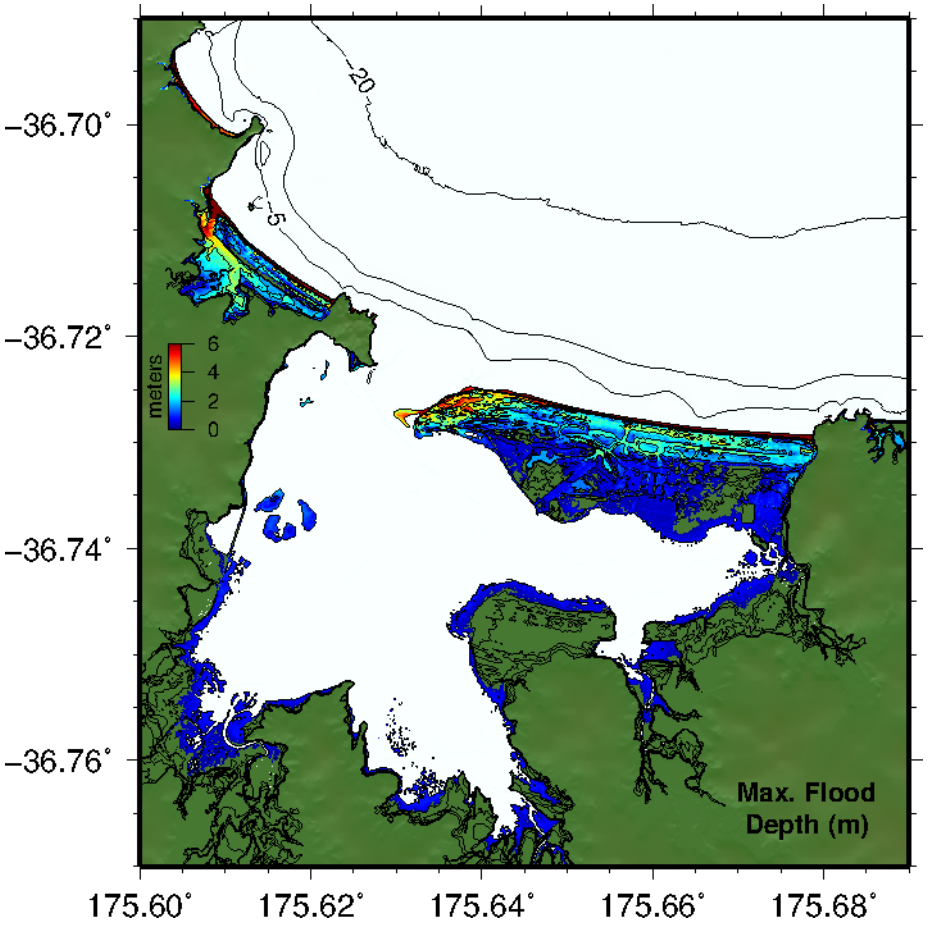
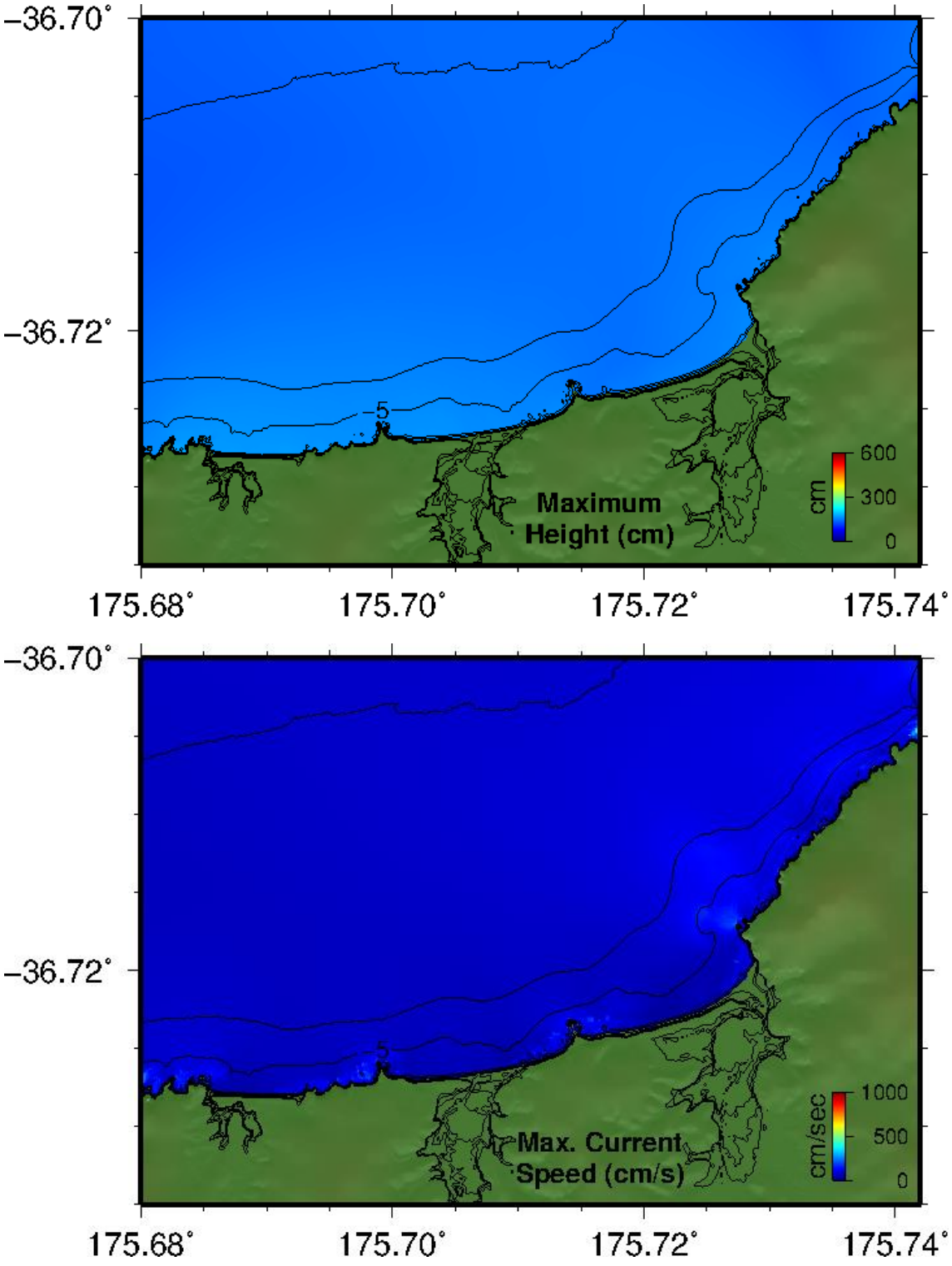


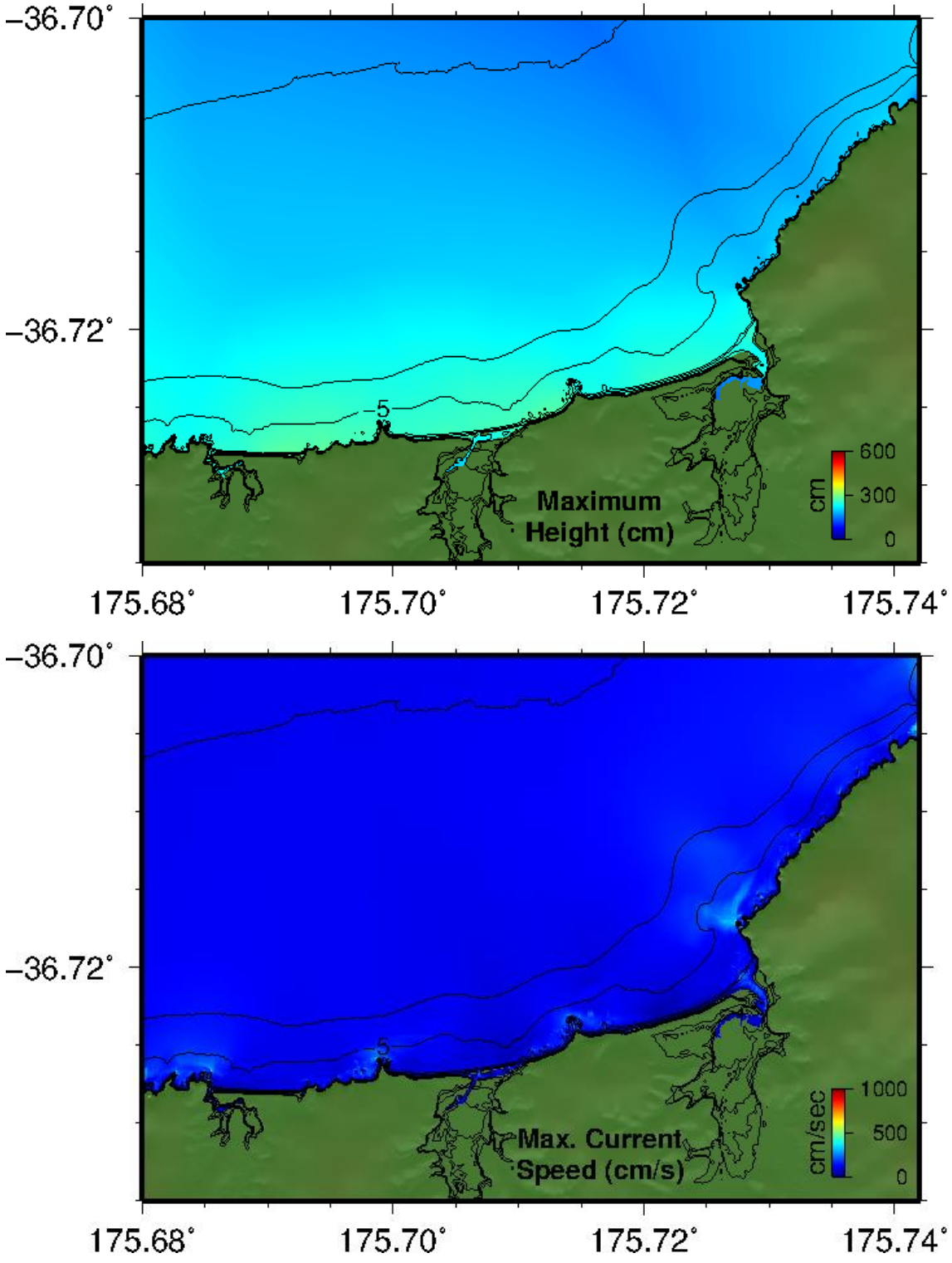

**Figure 3.2 Maximum computed overland flood depths for the Kermadec Trench Cases 1-8 in Whangapoua at MSL and Case 8 at HT.**

# 4 APPENDIX 4 – KUAOTUNU: TK TRENCH SOURCES

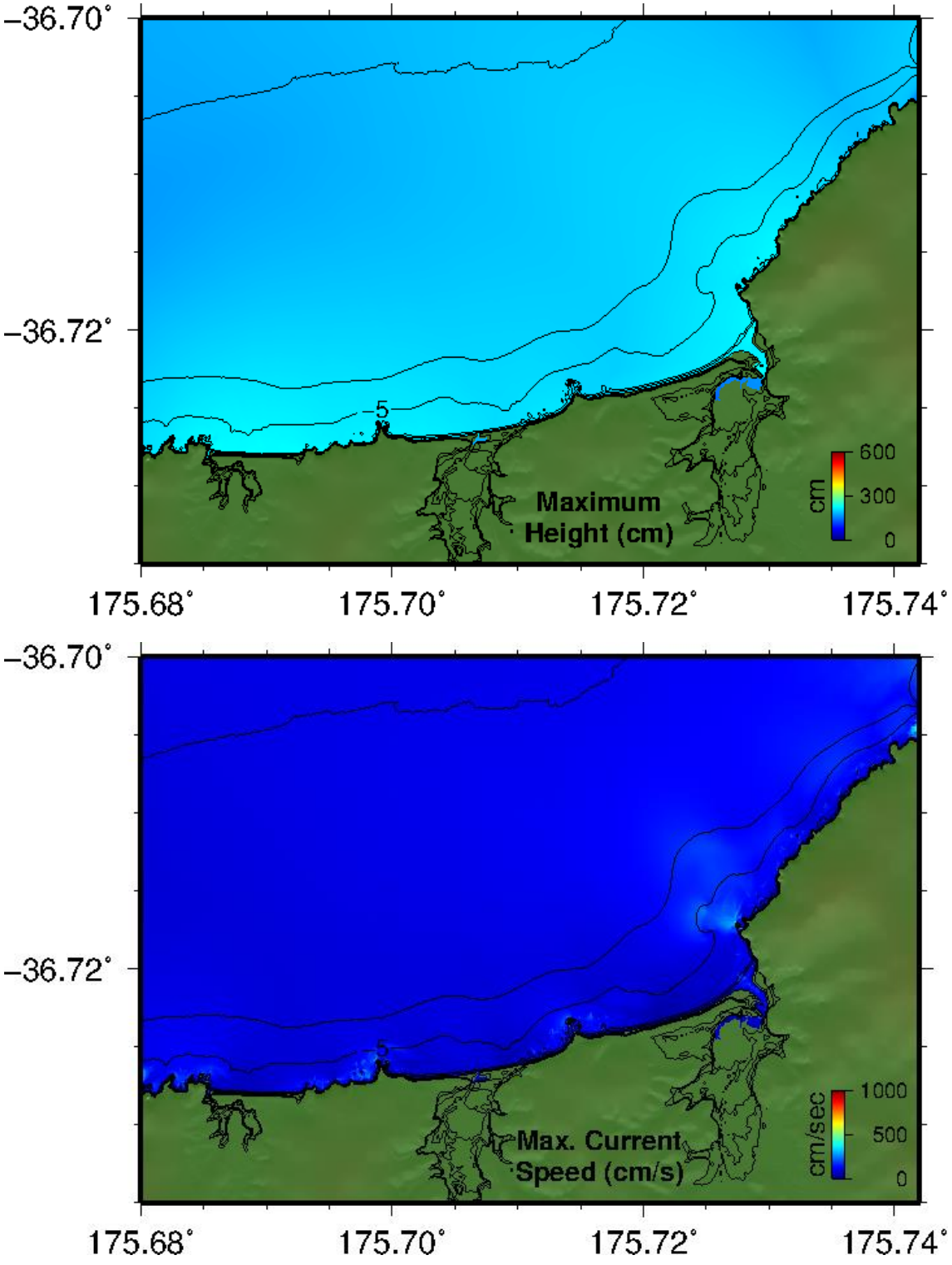
Case 1:



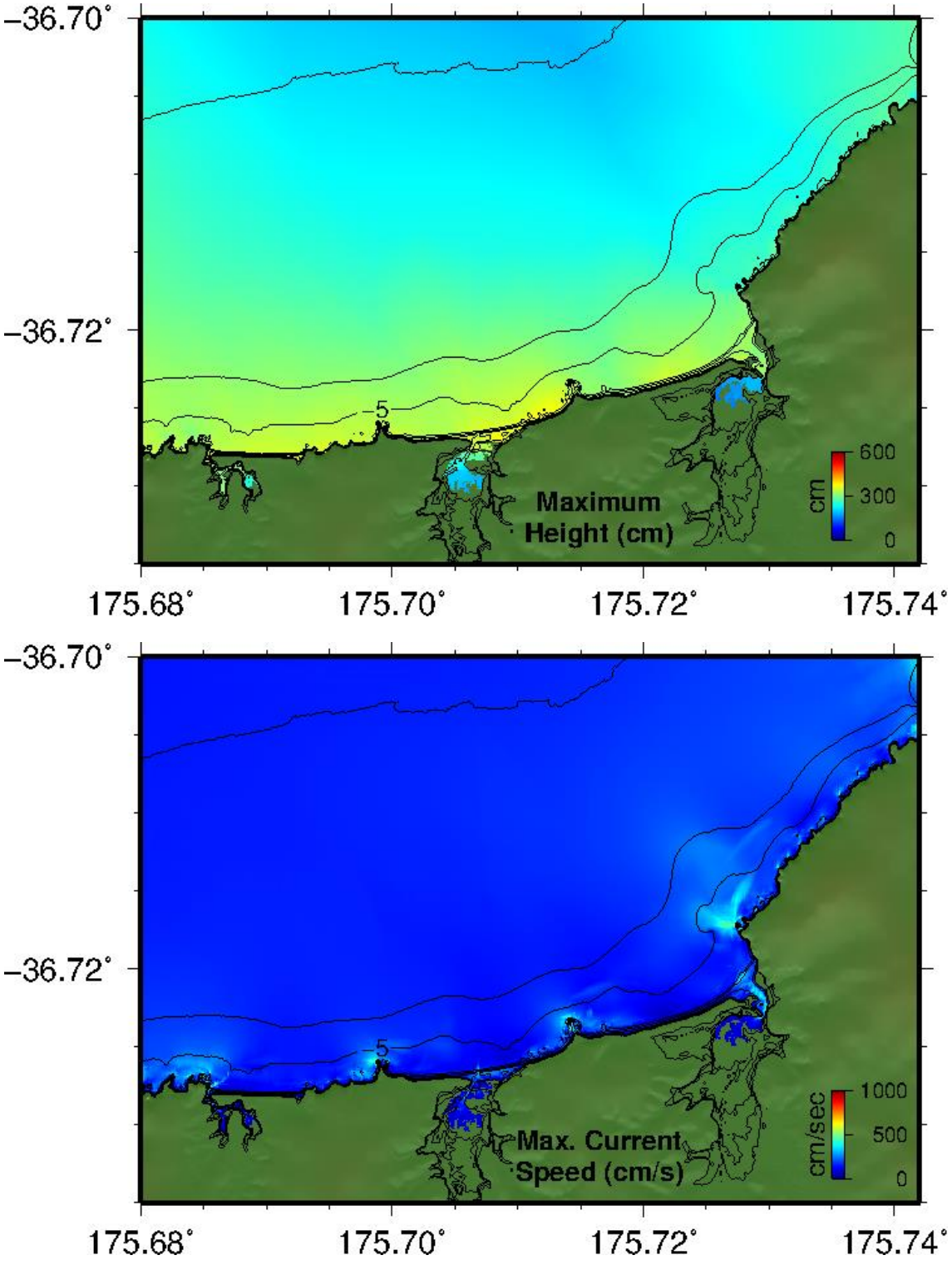
Case 2:


−36.70˚
−36.72˚
5
Maximum
Height (cm)
cm
600
300
0
175.68˚
175.70˚
175.72˚
175.74˚
−36.70˚
−36.72˚
5
Max. Current
Speed (cm/s)
cm/sec
1000
500
0
175.68˚
175.70˚
175.72˚
175.74˚

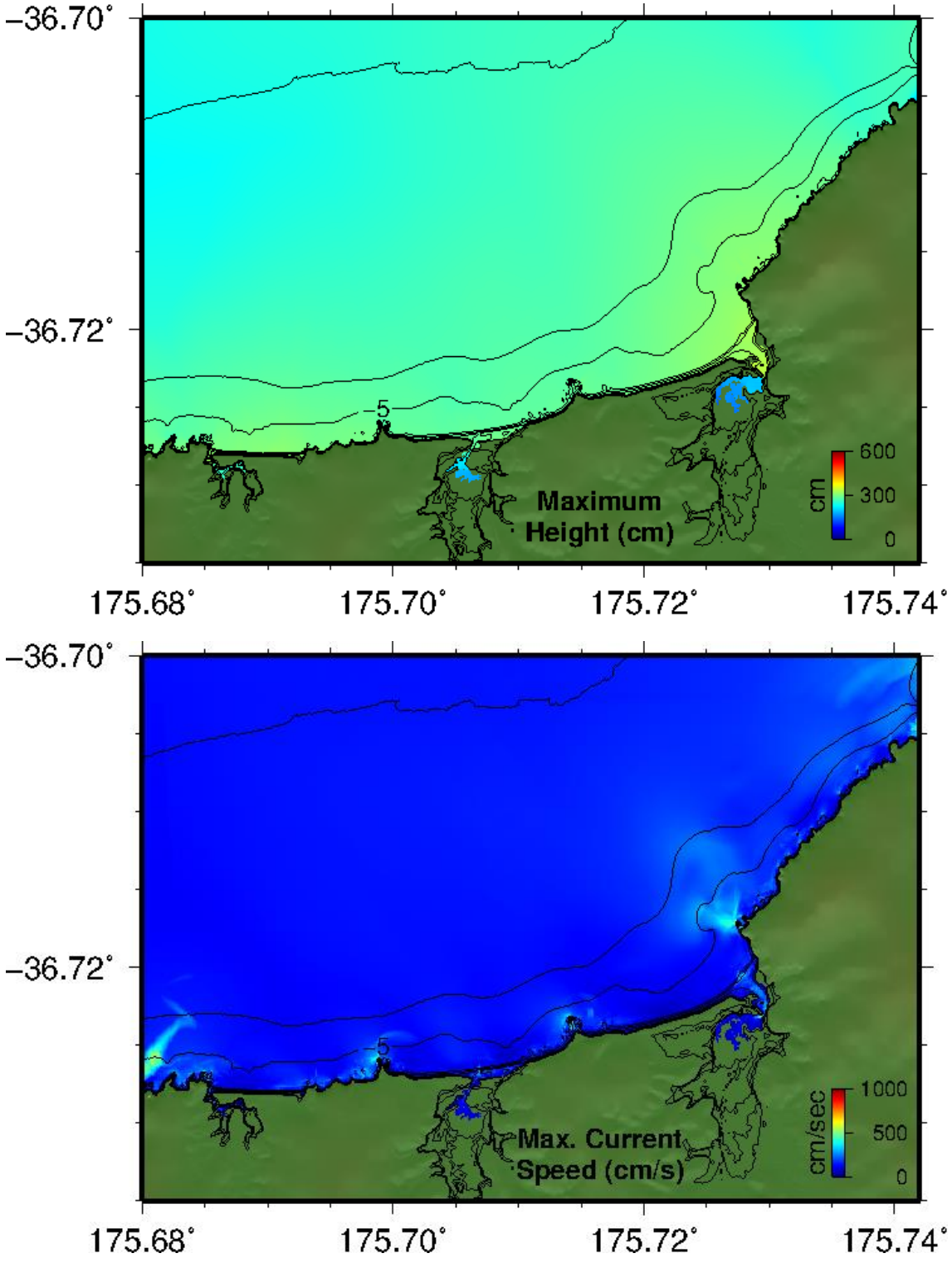
Case 3:


−36.70˚
−36.72˚
5
Maximum
Height (cm)
600
300
0
cm
175.68˚
175.70˚
175.72˚
175.74˚
−36.70˚
−36.72˚
Max. Current
Speed (cm/s)
1000
500
0
cm/sec
175.68˚
175.70˚
175.72˚
175.74˚

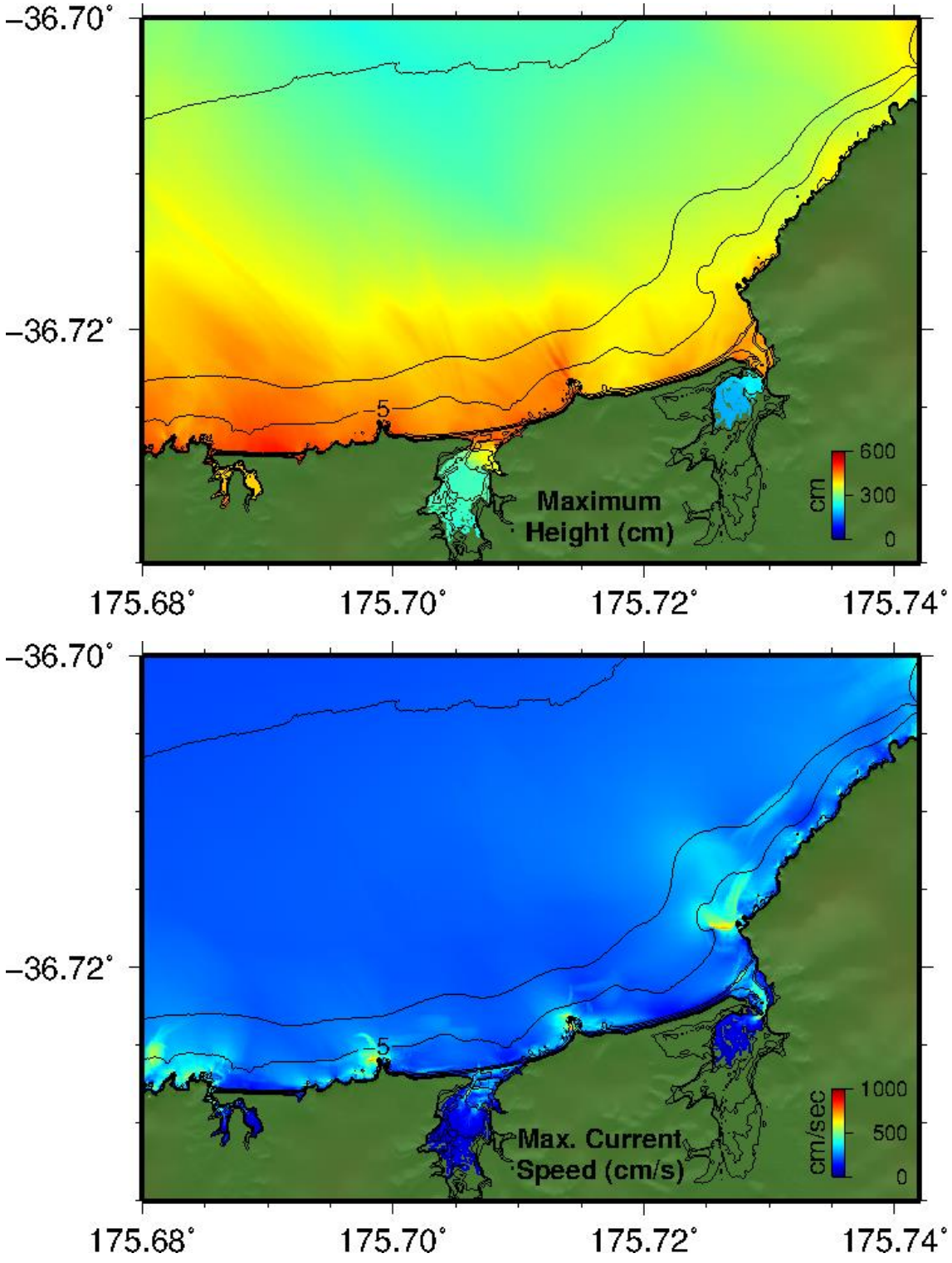
Case 4:


−36.70˚
−36.72˚
5
Maximum
Height (cm)
cm
600
300
0
175.68˚
175.70˚
175.72˚
175.74˚
−36.70˚
−36.72˚
5
Max. Current
Speed (cm/s)
cm/sec
1000
500
0
175.68˚
175.70˚
175.72˚
175.74˚

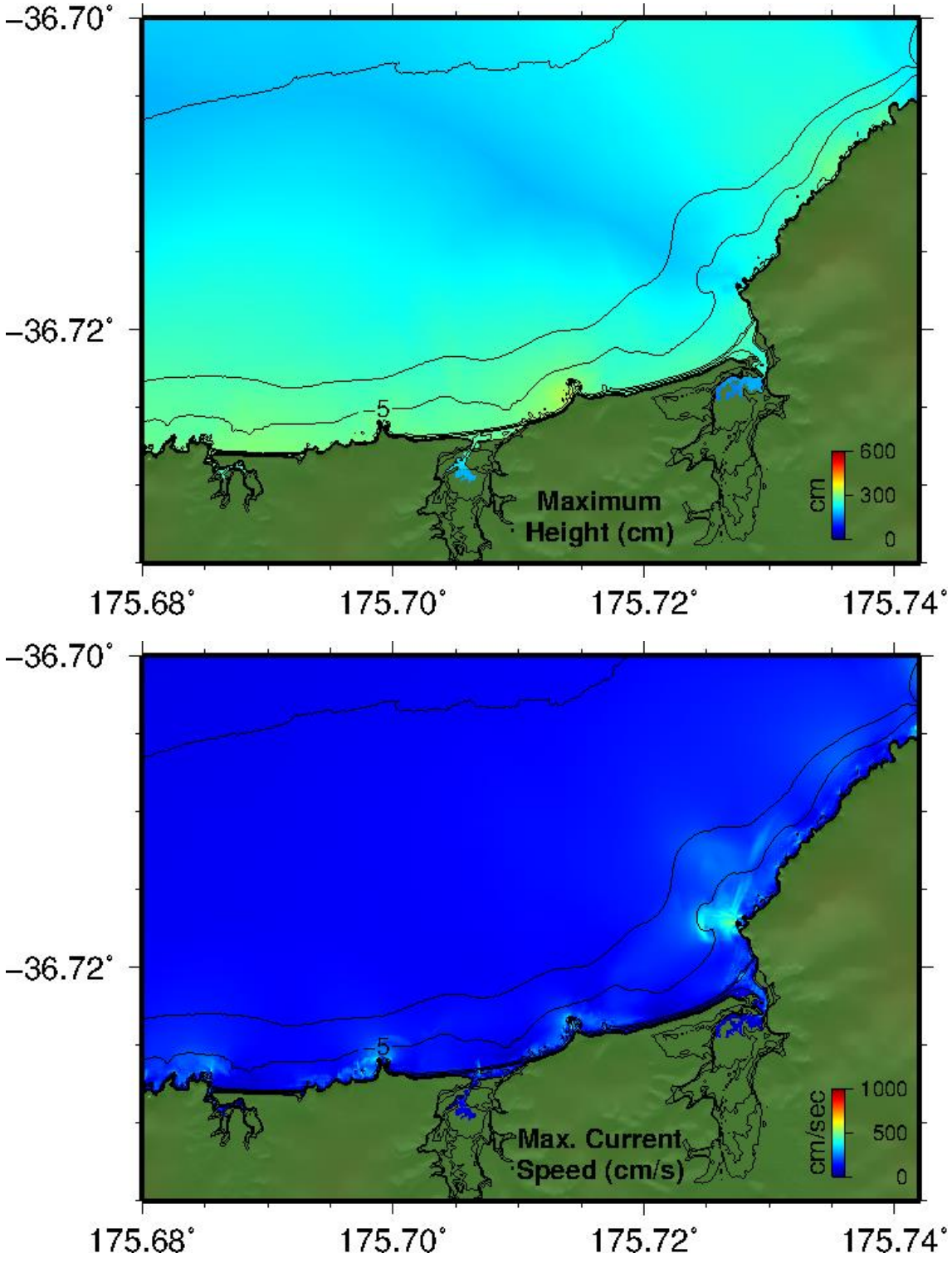
Case 5:


−36.70˚
−36.72˚
5
Maximum
Height (cm)
cm
600
300
0
175.68˚
175.70˚
175.72˚
175.74˚
−36.70˚
−36.72˚
5
Max. Current
Speed (cm/s)
cm/sec
1000
500
0
175.68˚
175.70˚
175.72˚
175.74˚

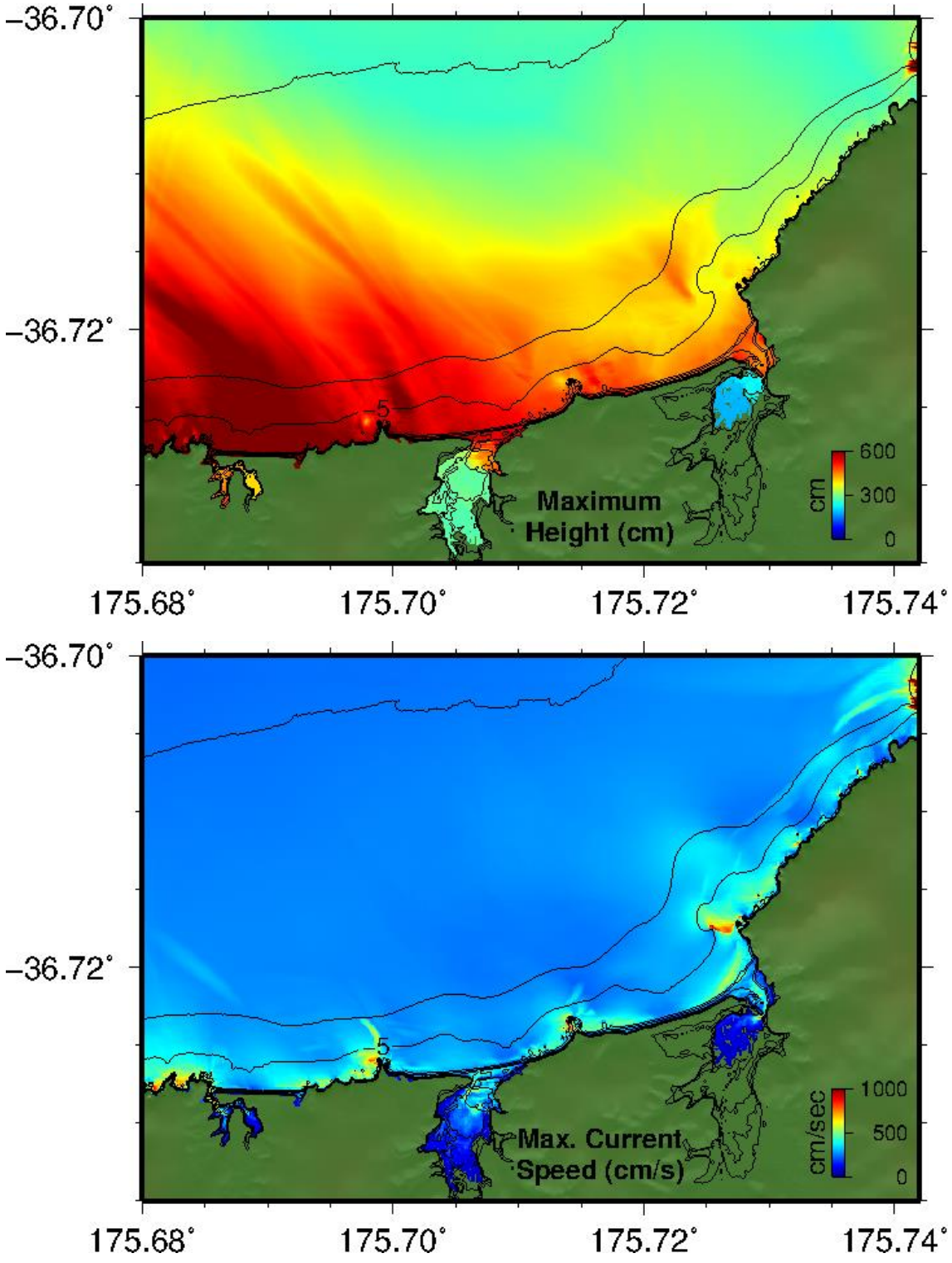
Case 6:


−36.70˚
−36.72˚
5
Maximum
Height (cm)
cm
600
300
0
175.68˚
175.70˚
175.72˚
175.74˚
−36.70˚
−36.72˚
5
Max. Current
Speed (cm/s)
cm/sec
1000
500
0
175.68˚
175.70˚
175.72˚
175.74˚

Case 7:


−36.70˚
−36.72˚
5
Maximum
Height (cm)
cm
600
300
0
175.68˚
175.70˚
175.72˚
175.74˚
−36.70˚
−36.72˚
5
Max. Current
Speed (cm/s)
cm/sec
1000
500
0
175.68˚
175.70˚
175.72˚
175.74˚

Case 8:


−36.70˚
−36.72˚
5
Maximum
Height (cm)
cm
600
300
0
175.68˚
175.70˚
175.72˚
175.74˚
−36.70˚
−36.72˚
5
Max. Current
Speed (cm/s)
cm/sec
1000
500
0
175.68˚
175.70˚
175.72˚
175.74˚

Case 8 HT:

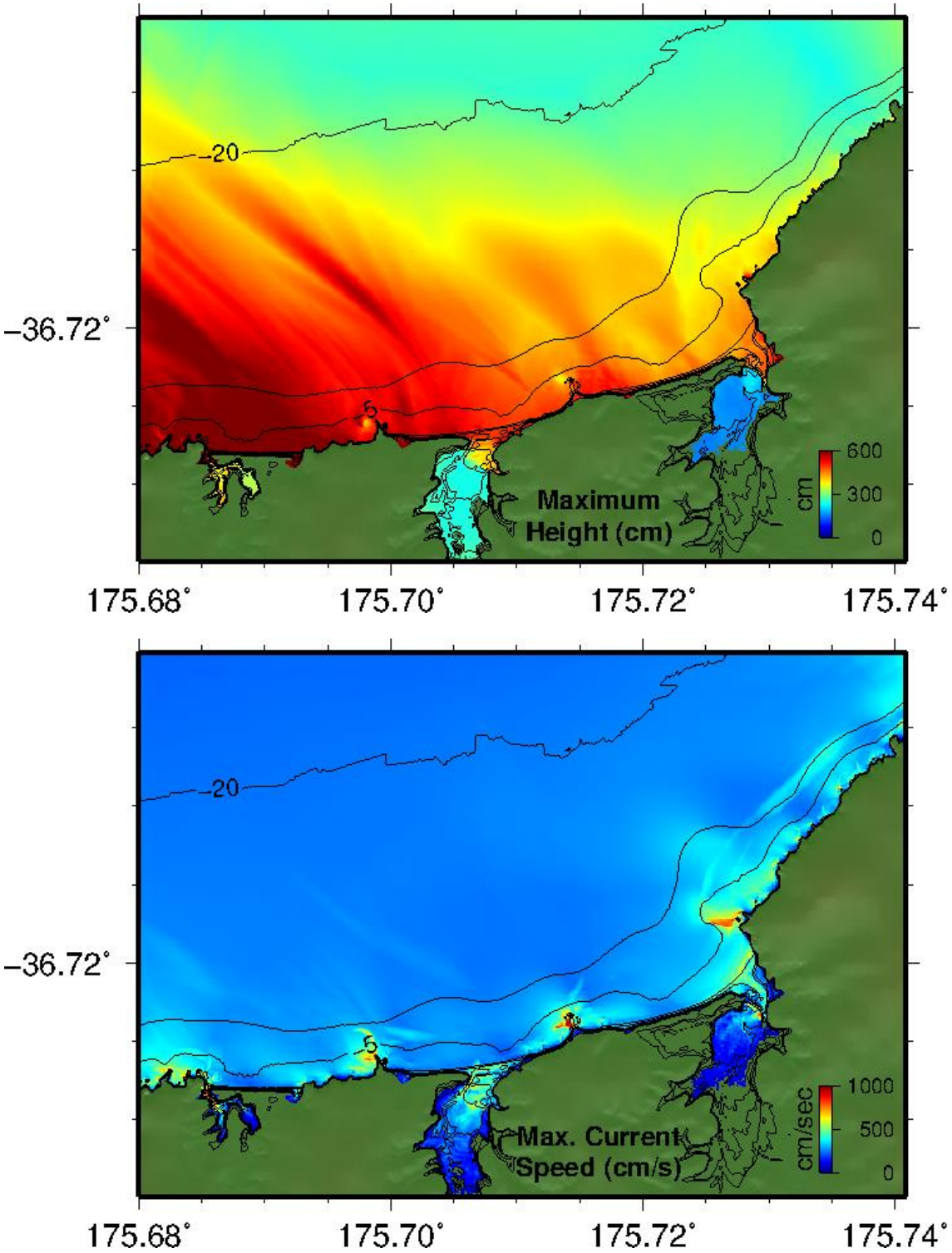
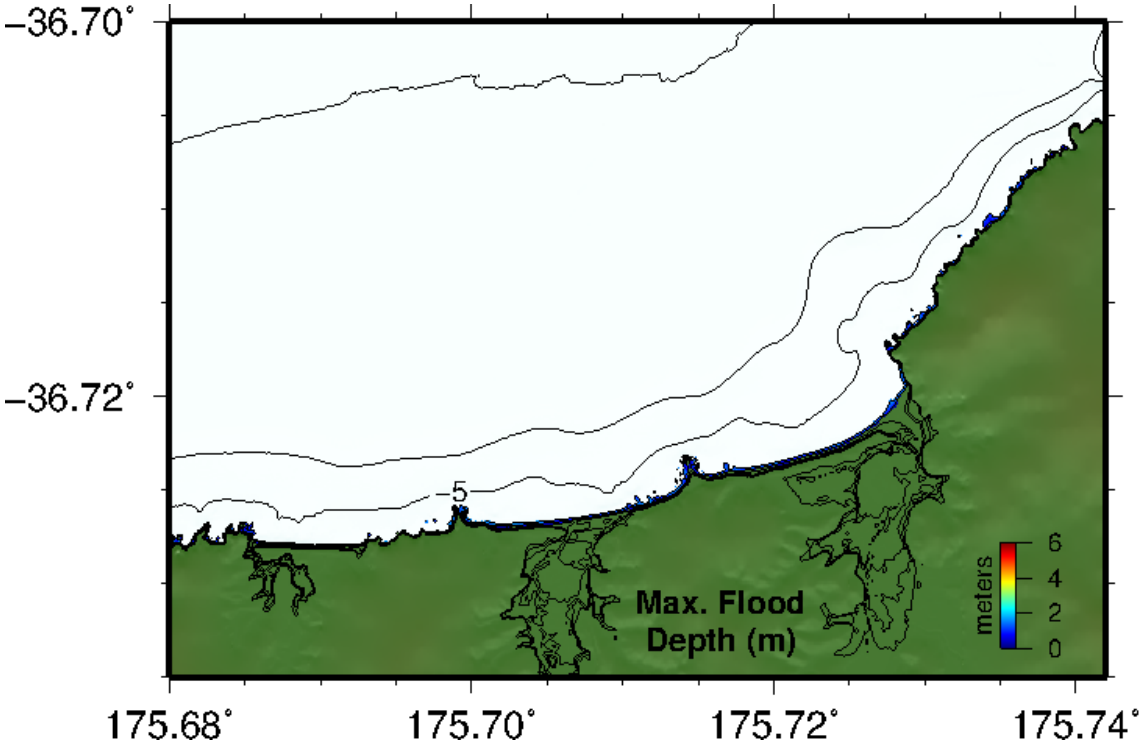
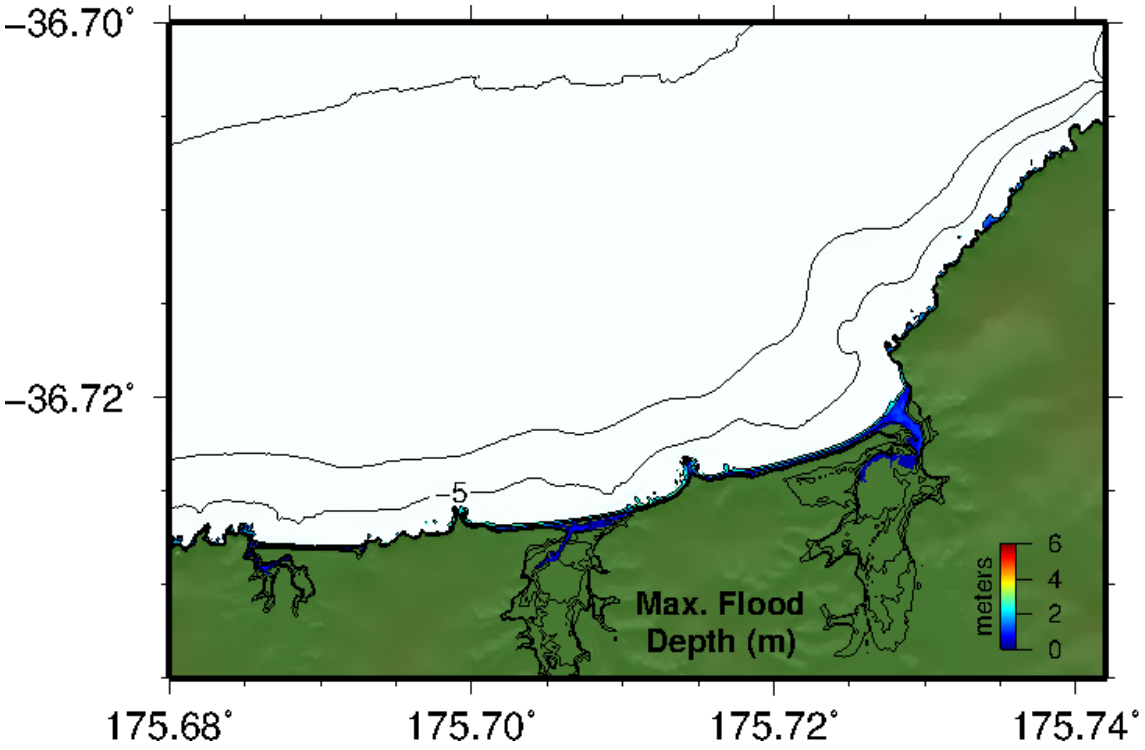



**Figure 4.1 Maximum computed water levels and current speeds for the Kermadec Trench Cases 1-8 in Kuaotunu at MSL and Case 8 at HT.**

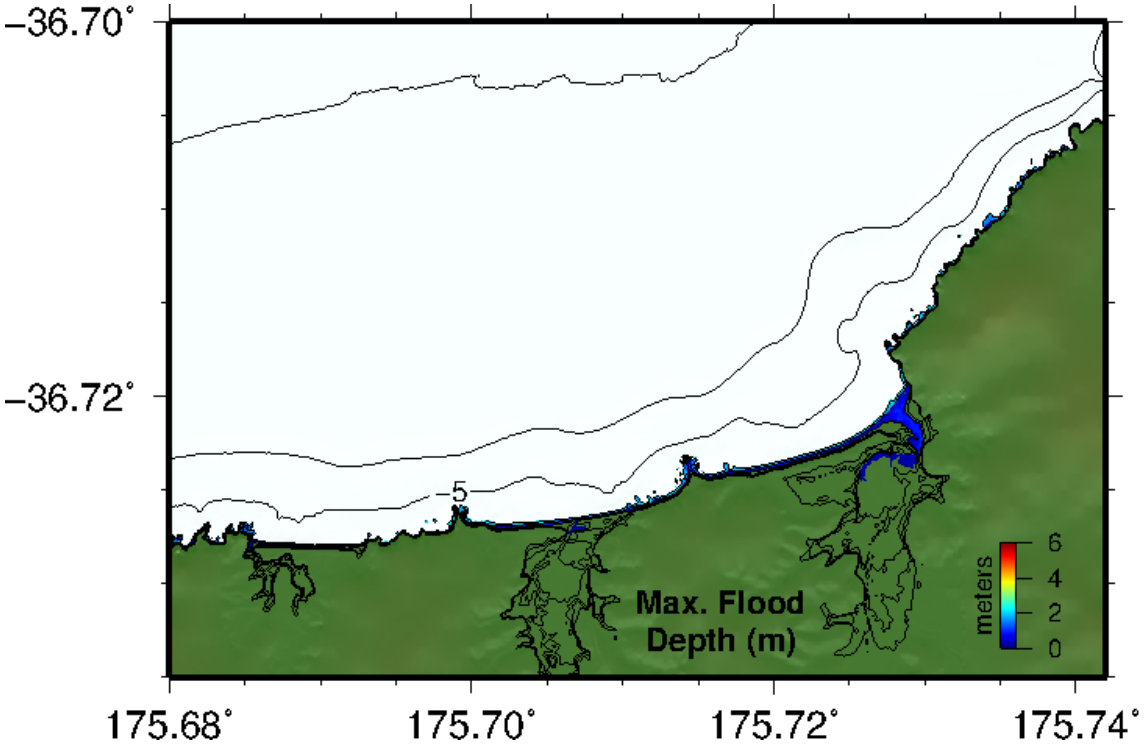
Case 1:


−36.70˚
−36.72˚
5
Max. Flood
Depth (m)
meters
6
4
2
0
175.68˚
175.70˚
175.72˚
175.74˚

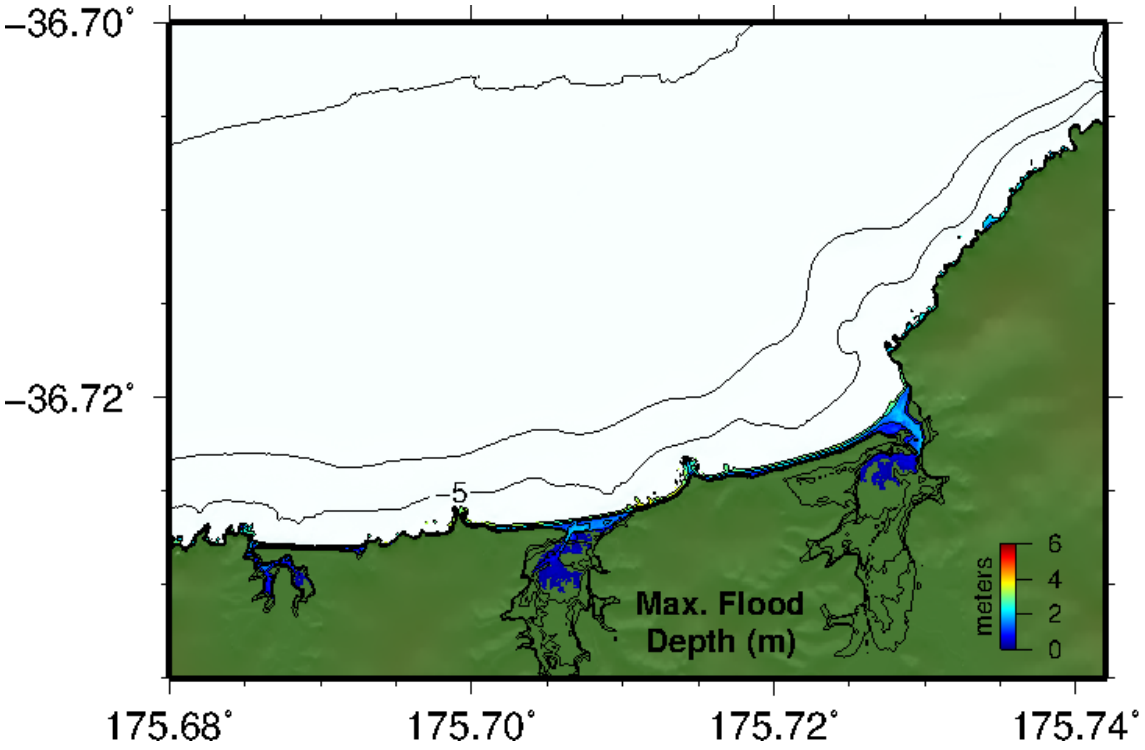
Case 2:


−36.70˚
−36.72˚
5
Max. Flood
Depth (m)
meters
6
4
2
0
175.68˚
175.70˚
175.72˚
175.74˚

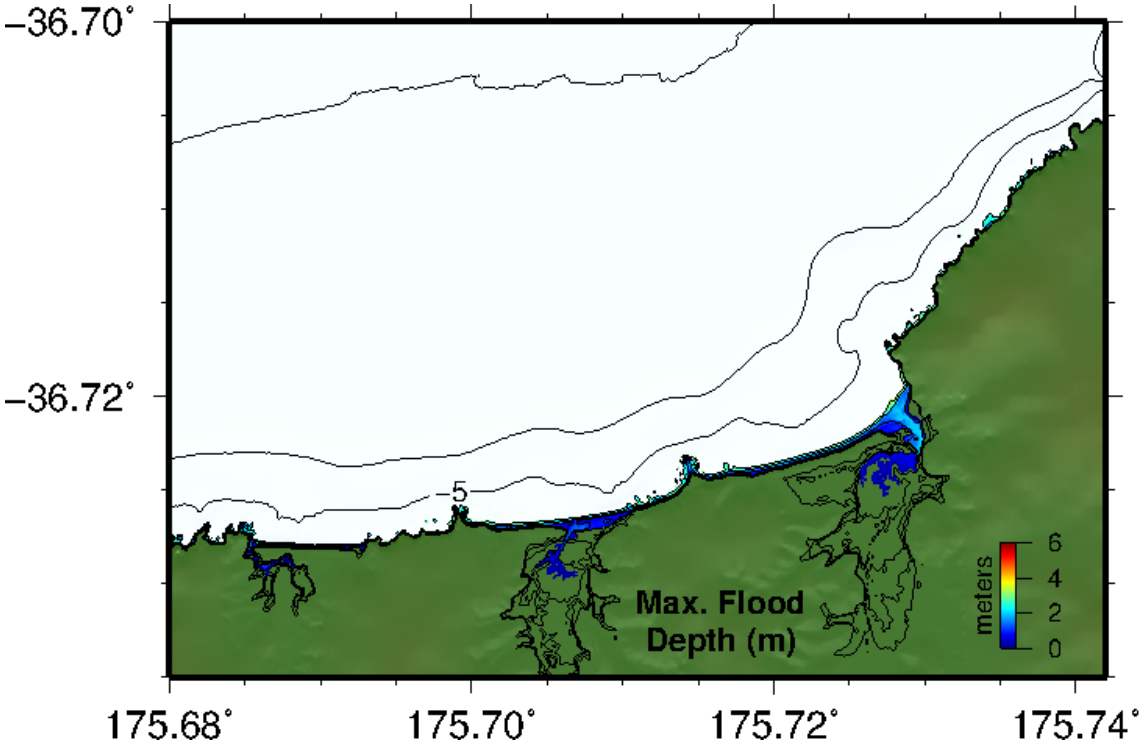
Case 3:


−36.70˚
−36.72˚
5
Max. Flood
Depth (m)
meters
6
4
2
0
175.68˚
175.70˚
175.72˚
175.74˚

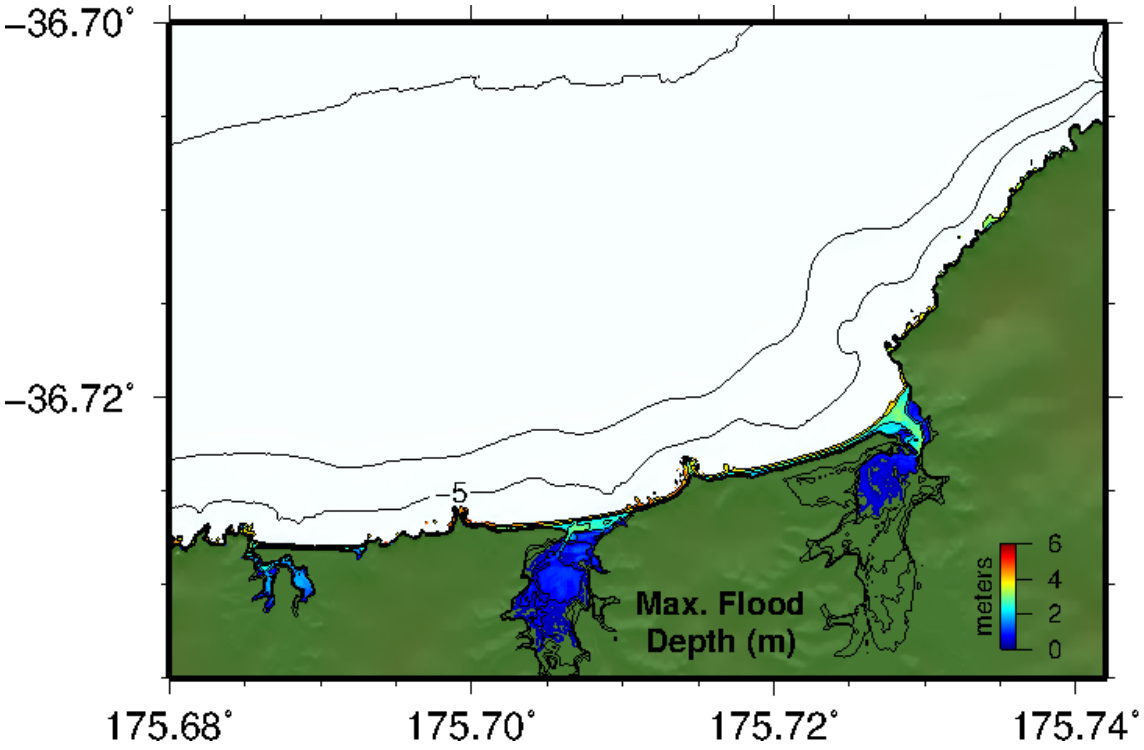
Case 4:


−36.70˚
−36.72˚
5
Max. Flood
Depth (m)
meters
6
4
2
0
175.68˚
175.70˚
175.72˚
175.74˚

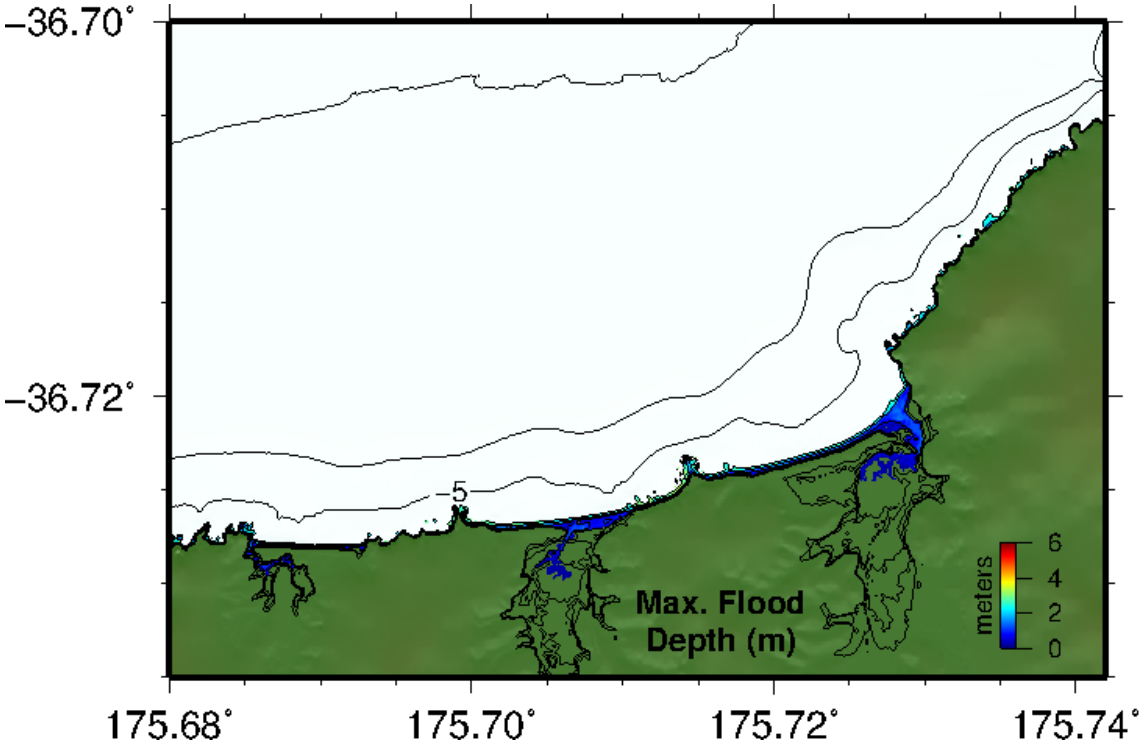
Case 5:


−36.70˚
−36.72˚
5
Max. Flood
Depth (m)
meters
6
4
2
0
175.68˚
175.70˚
175.72˚
175.74˚

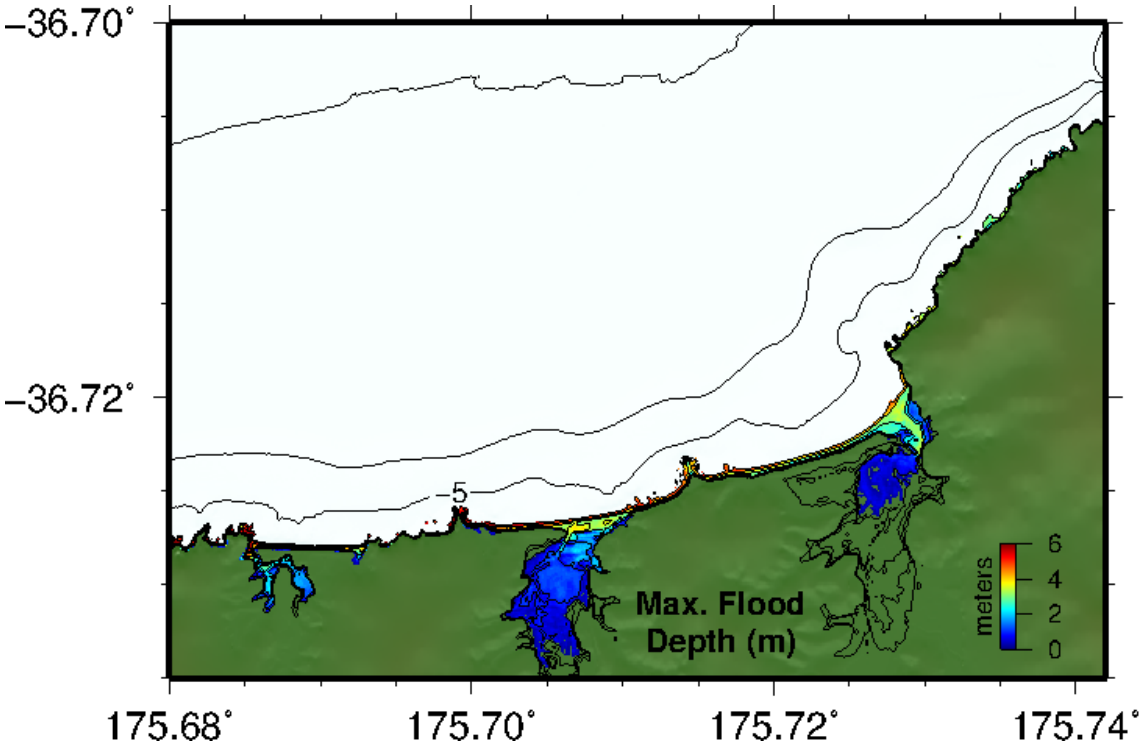
Case 6:


−36.70˚
−36.72˚
5
Max. Flood
Depth (m)
meters
6
4
2
0
175.68˚
175.70˚
175.72˚
175.74˚

Case 7:


−36.70˚
−36.72˚
5
Max. Flood
Depth (m)
meters
6
4
2
0
175.68˚
175.70˚
175.72˚
175.74˚

Case 8:


−36.70˚
−36.72˚
5
Max. Flood
Depth (m)
meters
6
4
2
0
175.68˚
175.70˚
175.72˚
175.74˚

Case 8 HT:

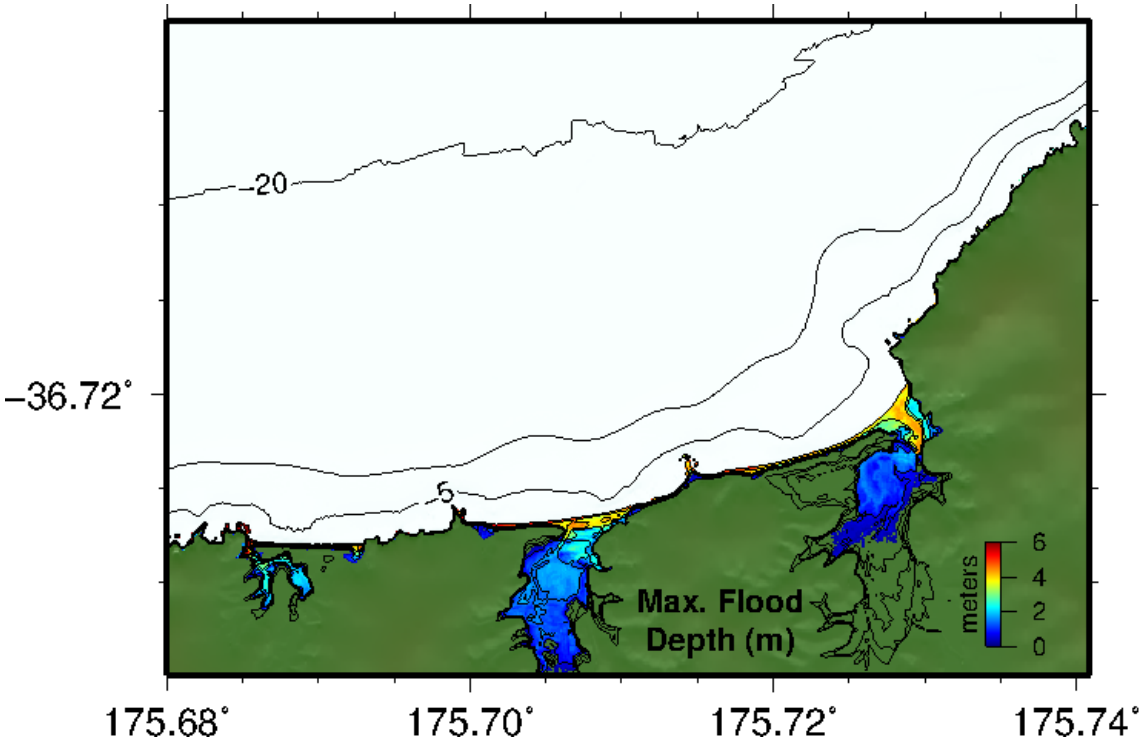
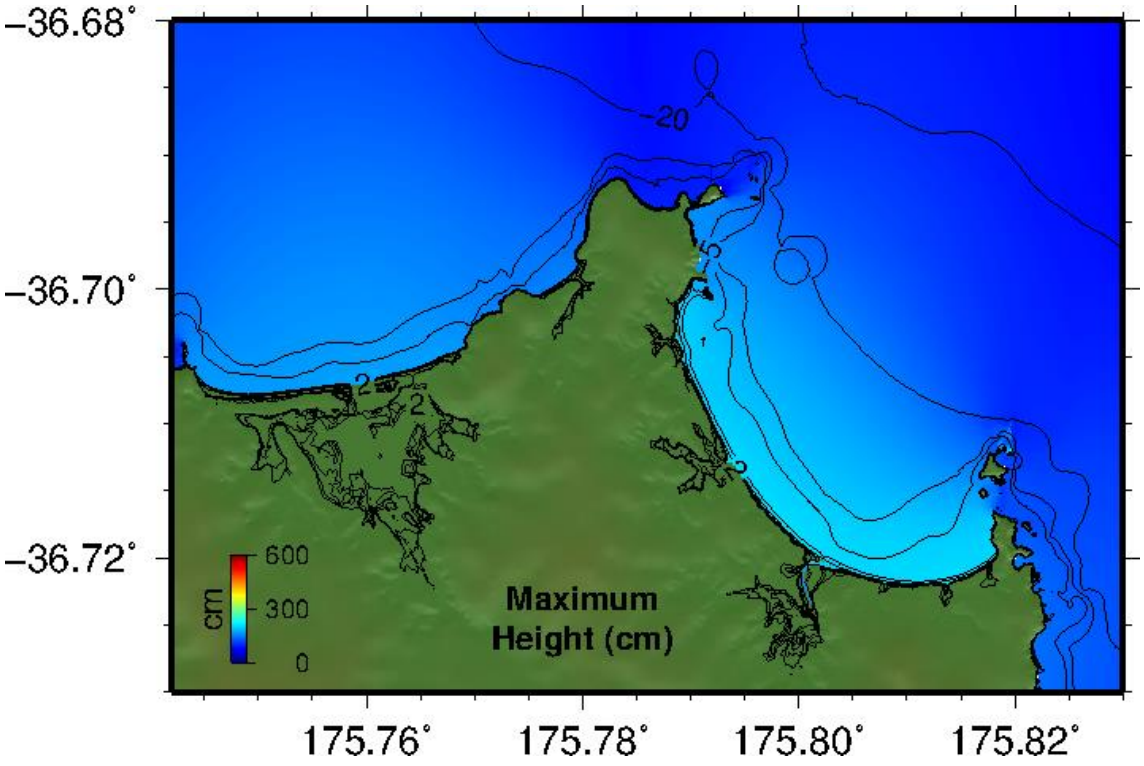
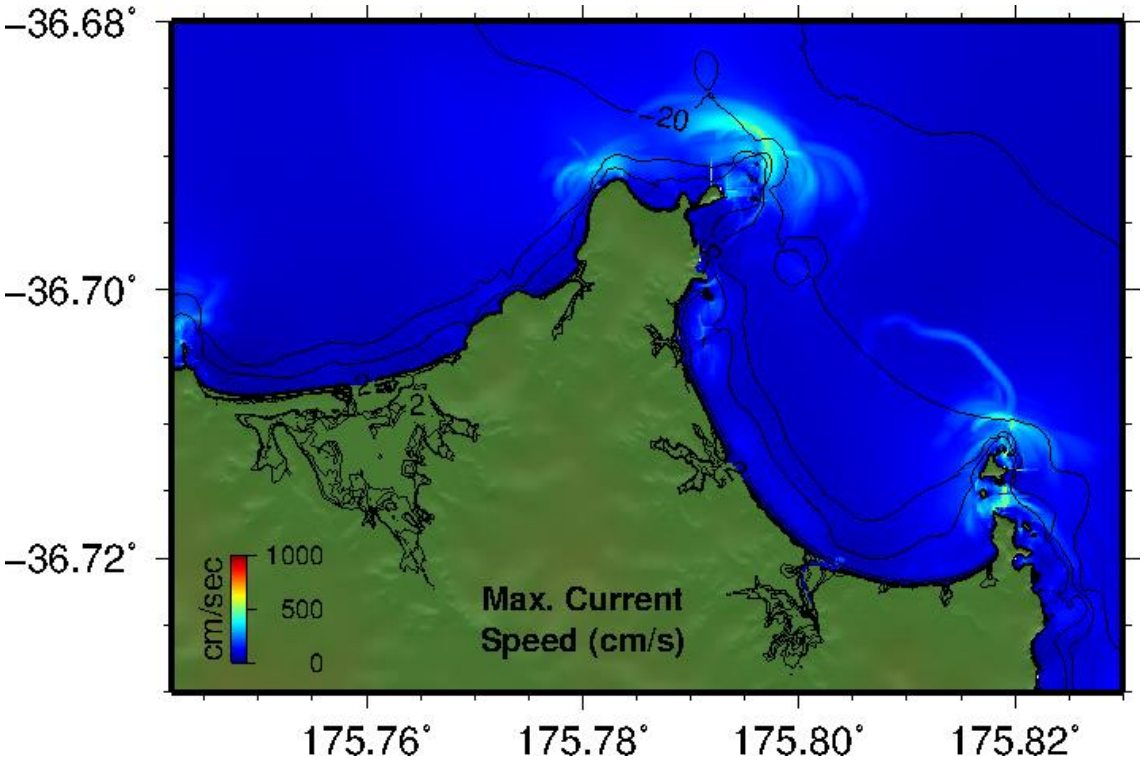



**Figure 4.2 Maximum computed overland flood depths for the Kermadec Trench Cases 1-8 in Kuaotunu at MSL and HT**

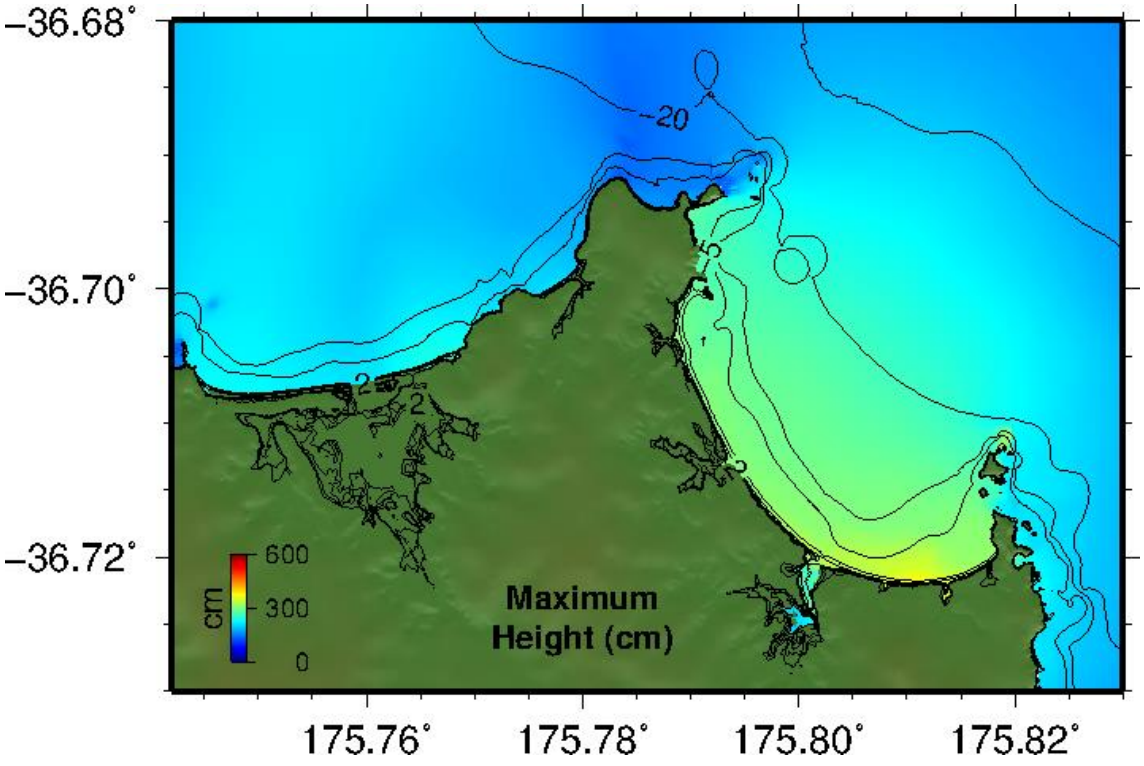
# 5 APPENDIX 5 – OPITO BAY: TK TRENCH SOURCES

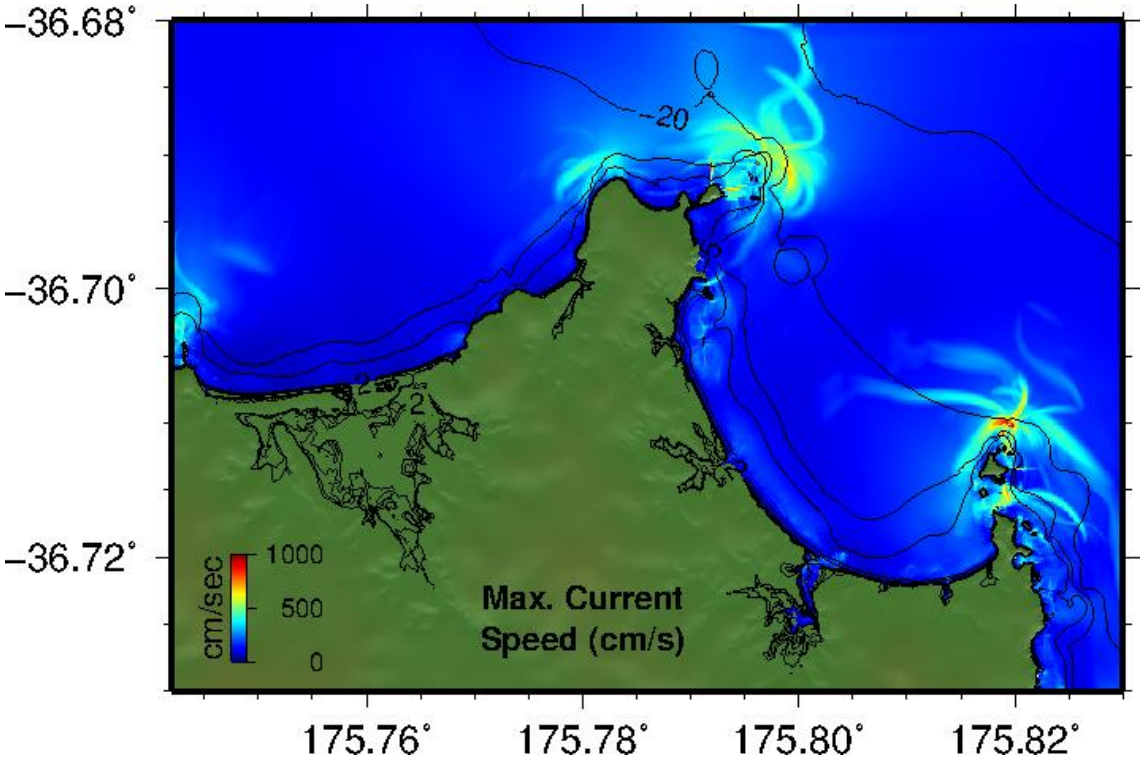
Case 1:



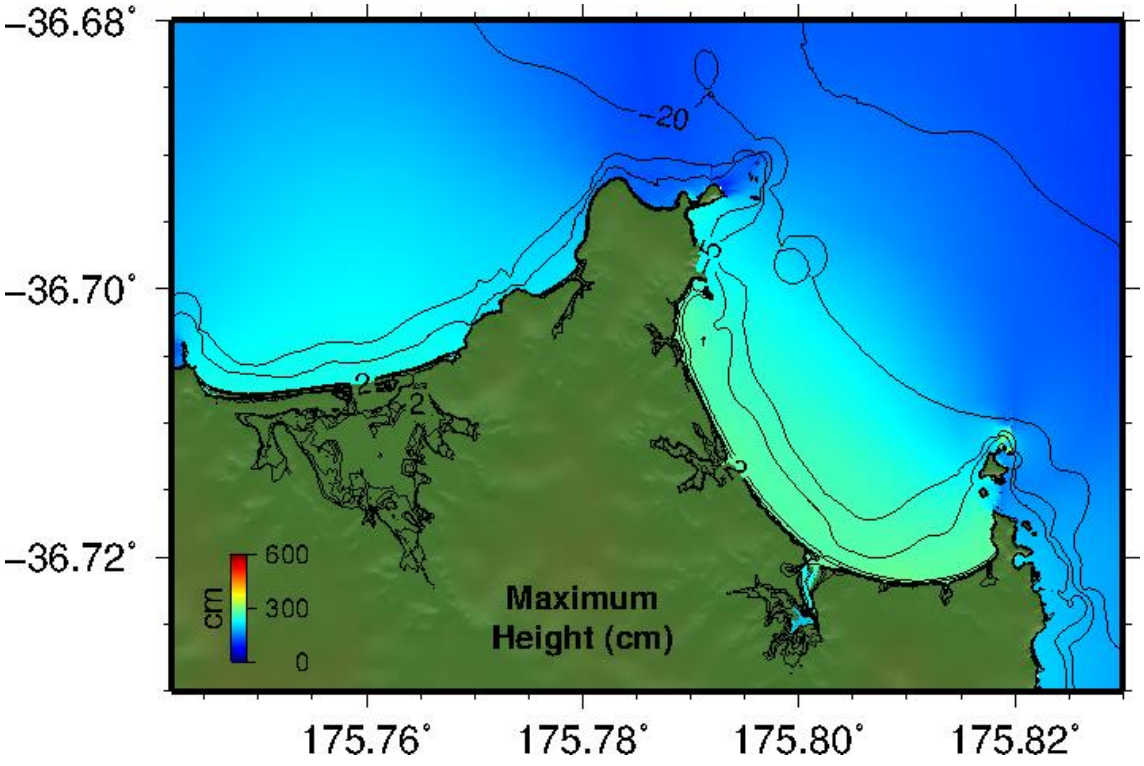



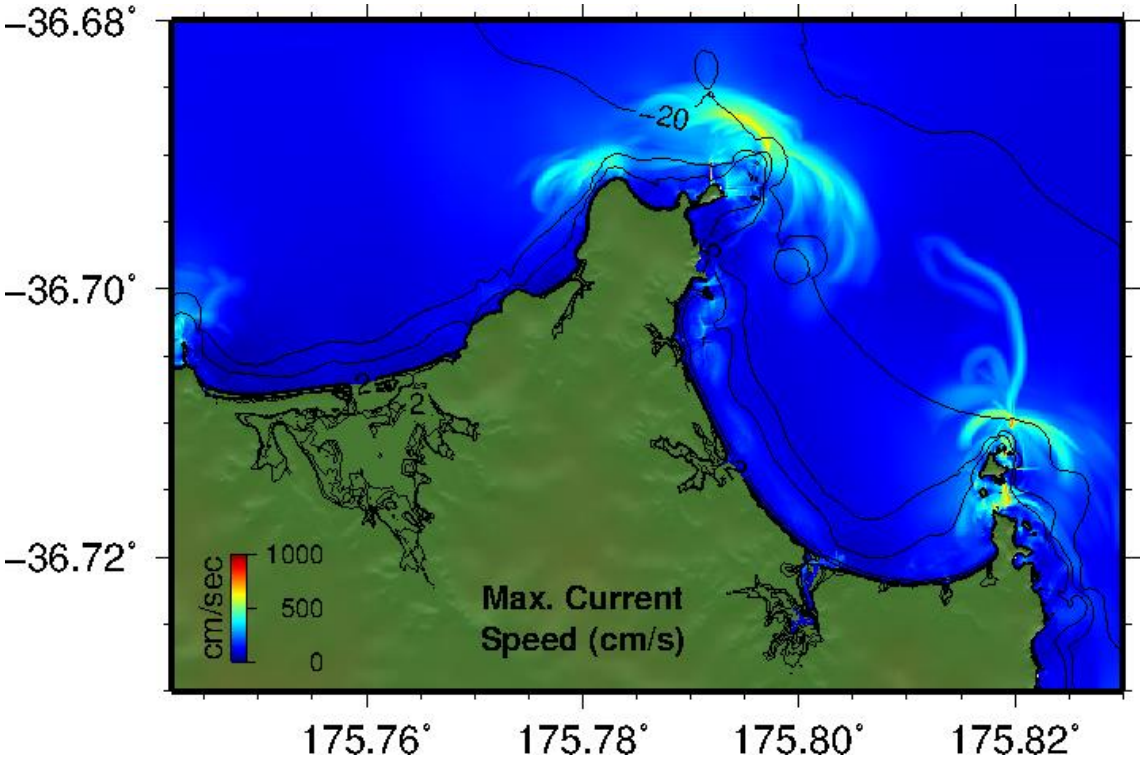
Case 2:


−36.68˚
−36.70˚
−36.72˚
20
2
cm
600
300
0
Maximum
Height (cm)
175.76˚
175.78˚
175.80˚
175.82˚

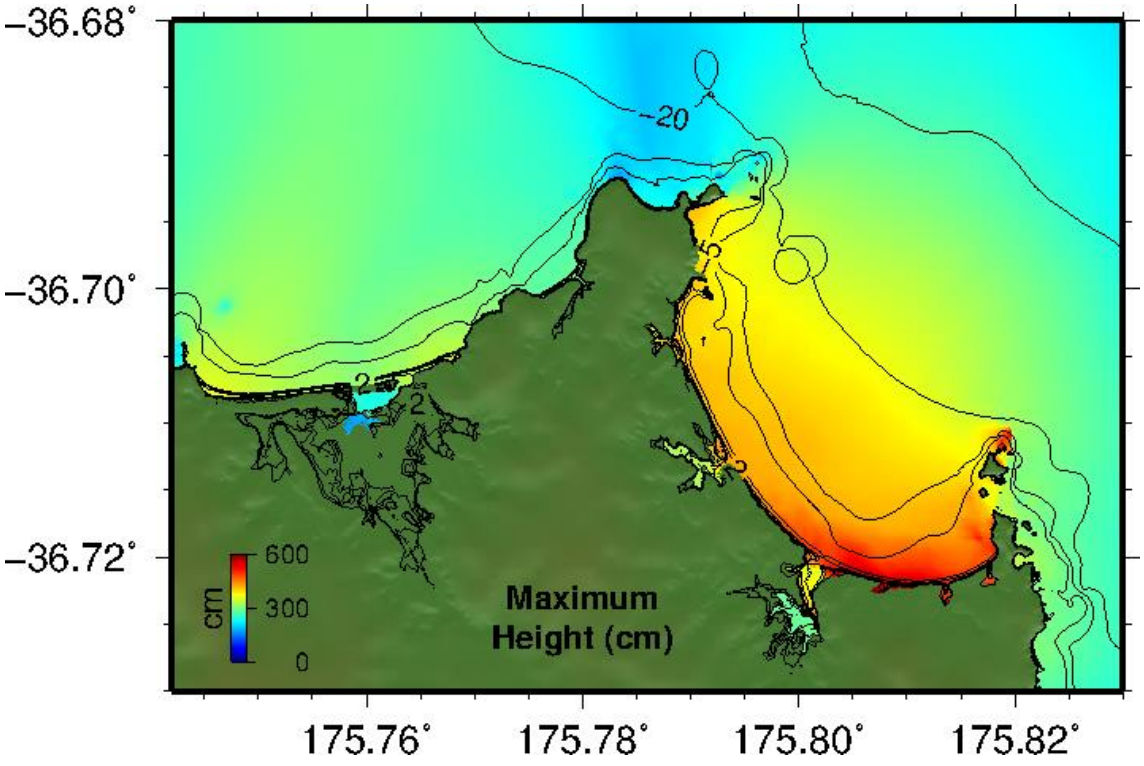

−36.68˚
−36.70˚
−36.72˚
20
2
cm/sec
1000
500
0
Max. Current
Speed (cm/s)
175.76˚
175.78˚
175.80˚
175.82˚

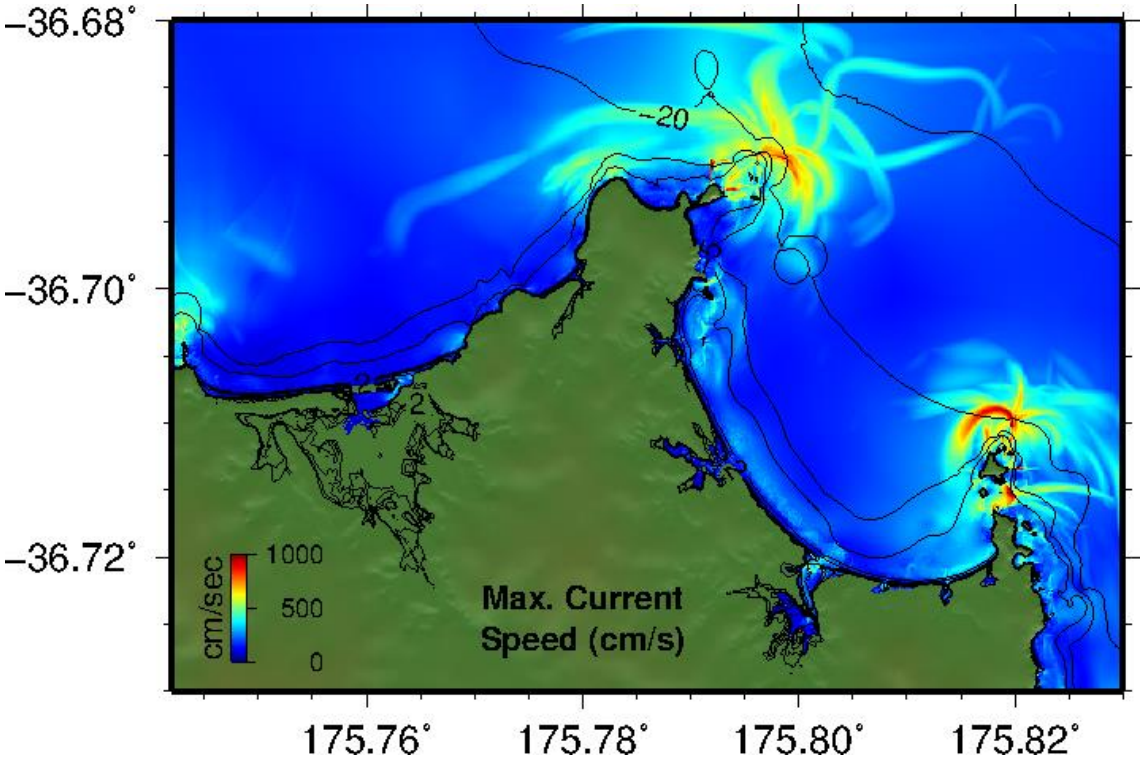
Case 3:


−36.68˚
−36.70˚
−36.72˚
20
2
cm
600
300
0
Maximum
Height (cm)
175.76˚
175.78˚
175.80˚
175.82˚

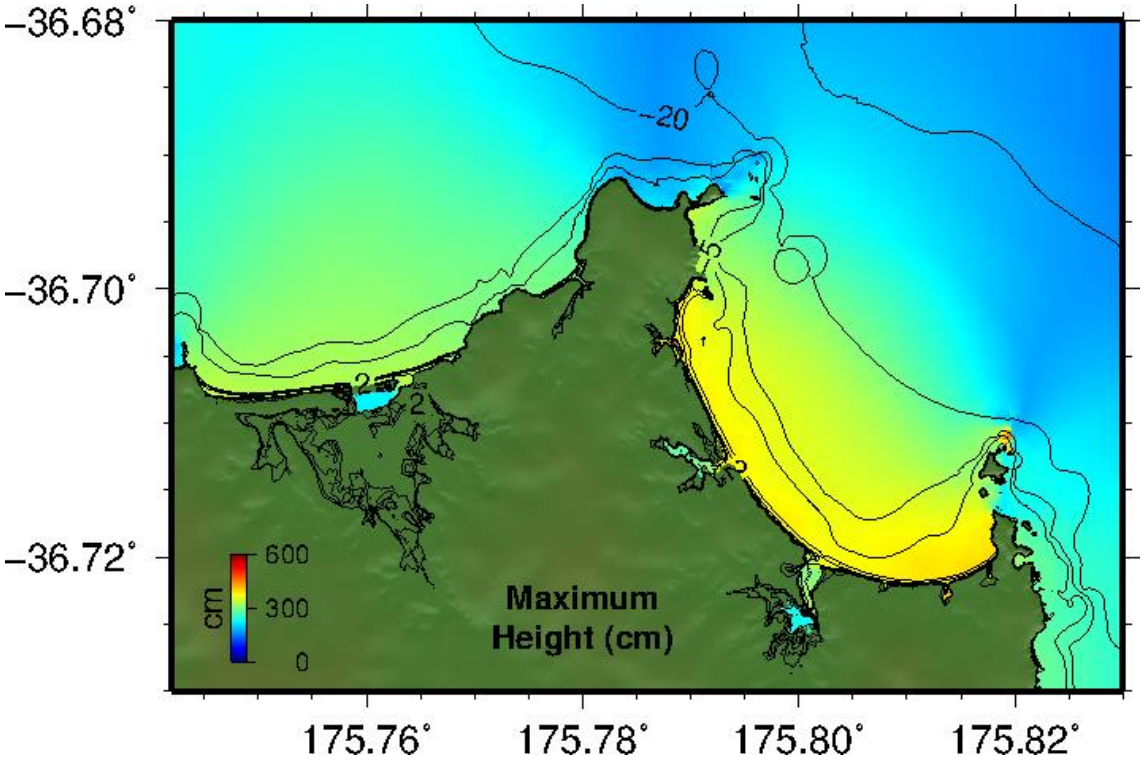

−36.68˚
−36.70˚
−36.72˚
20
2
cm/sec
1000
500
0
Max. Current
Speed (cm/s)
175.76˚
175.78˚
175.80˚
175.82˚

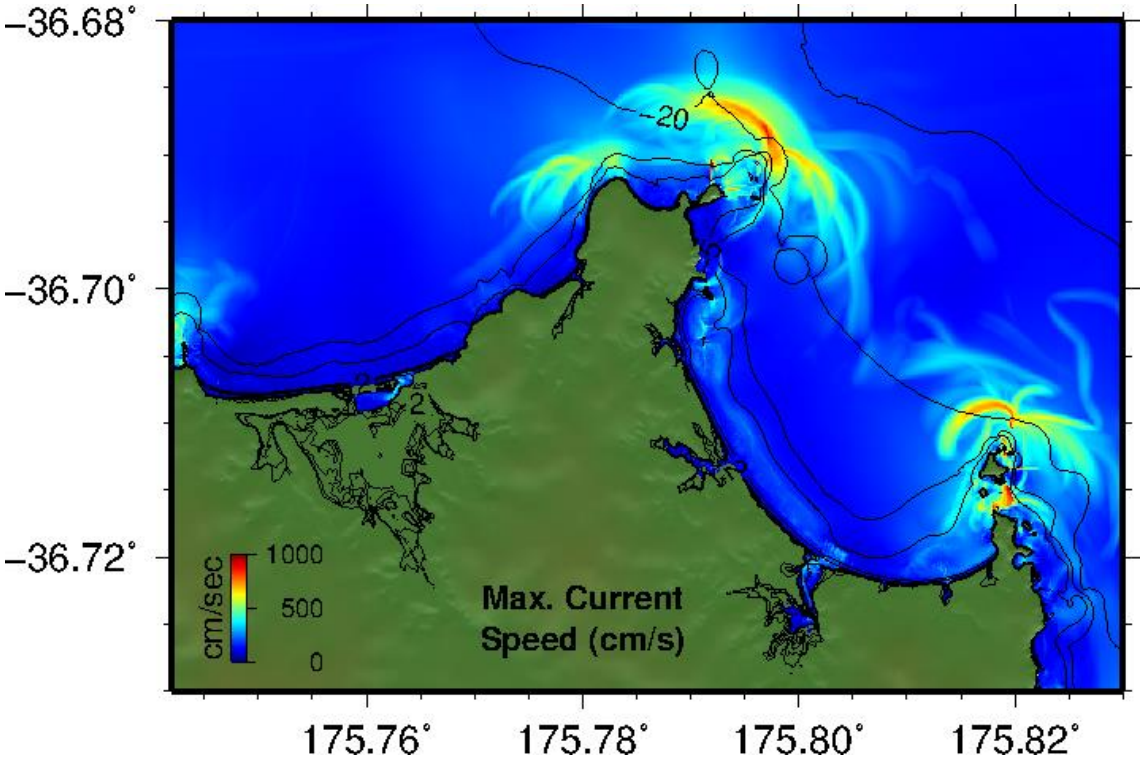
Case 4:


−36.68˚
−36.70˚
−36.72˚
−20
2
cm
600
300
0
Maximum
Height (cm)
175.76˚
175.78˚
175.80˚
175.82˚

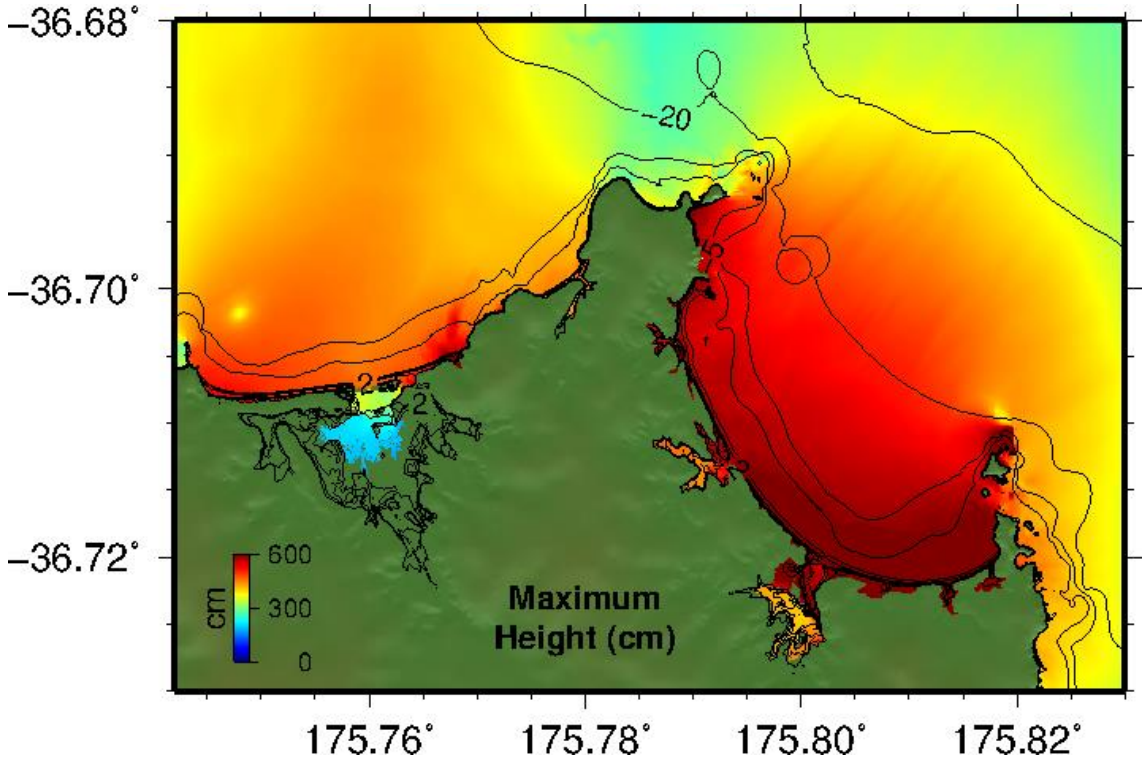

−36.68˚
−36.70˚
−36.72˚
−20
2
cm/sec
1000
500
0
Max. Current
Speed (cm/s)
175.76˚
175.78˚
175.80˚
175.82˚

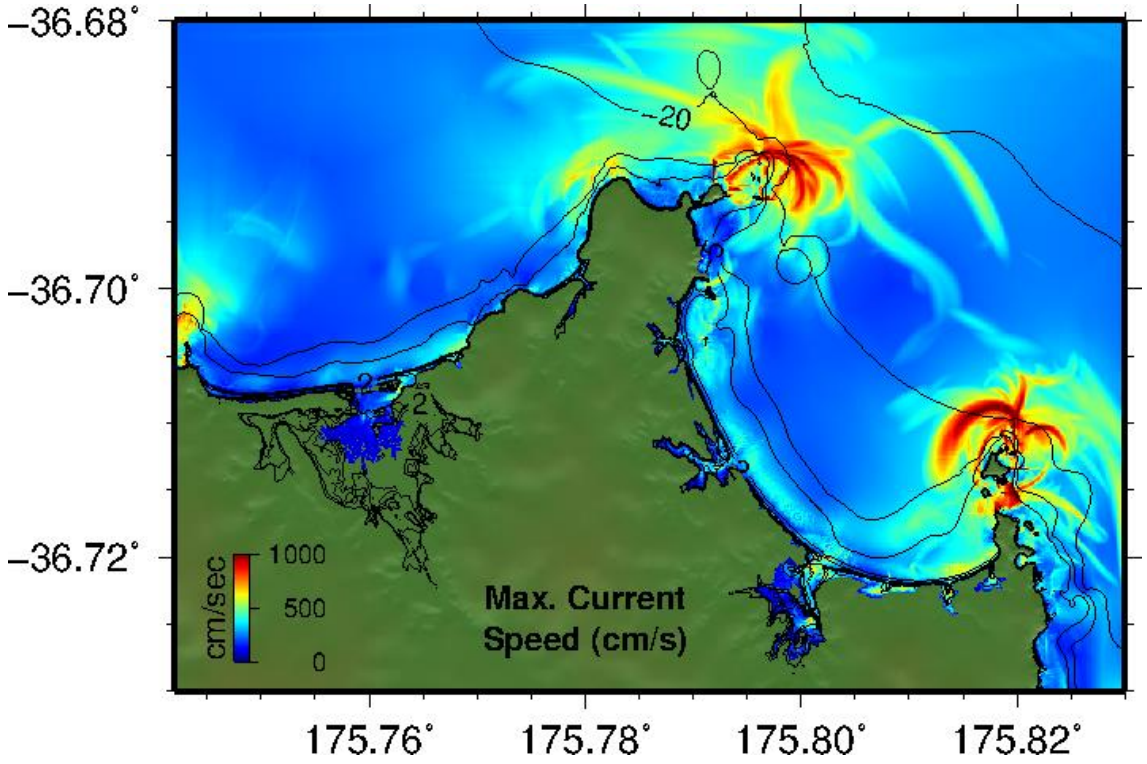
Case 5:


−36.68˚
−36.70˚
−36.72˚
20
2
2
600
300
0
cm
Maximum
Height (cm)
175.76˚
175.78˚
175.80˚
175.82˚

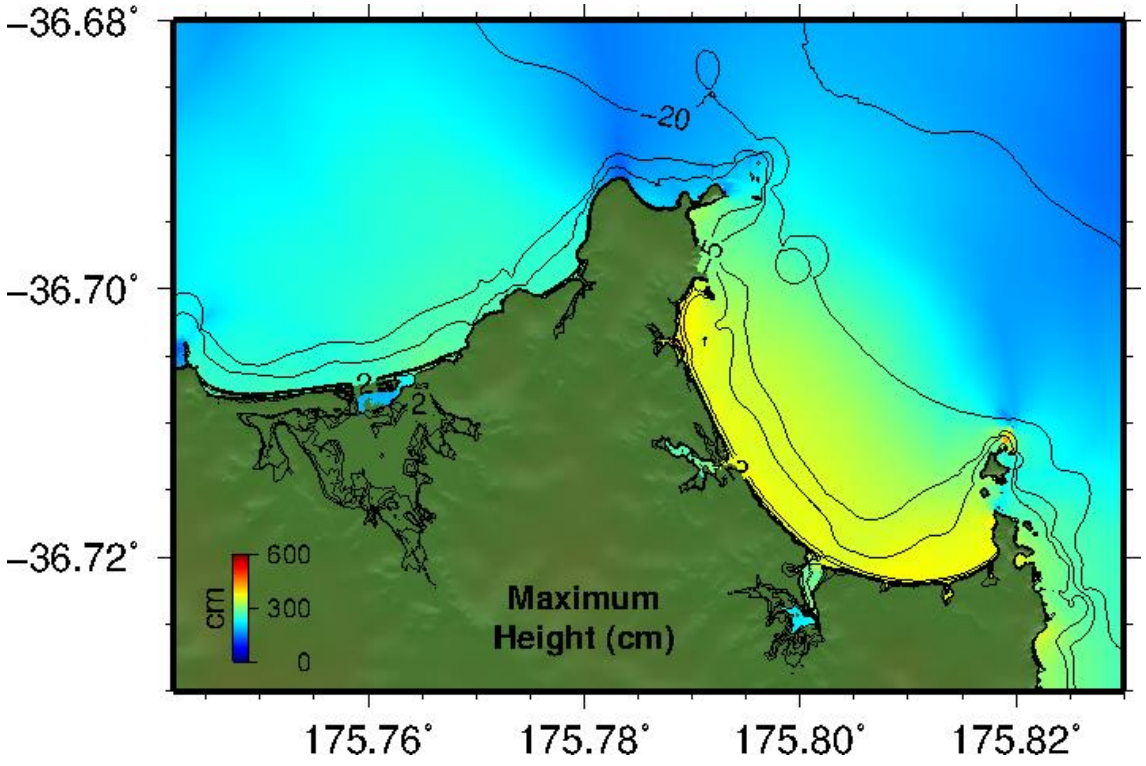

−36.68˚
−36.70˚
−36.72˚
20
2
1000
500
0
cm/sec
Max. Current
Speed (cm/s)
175.76˚
175.78˚
175.80˚
175.82˚

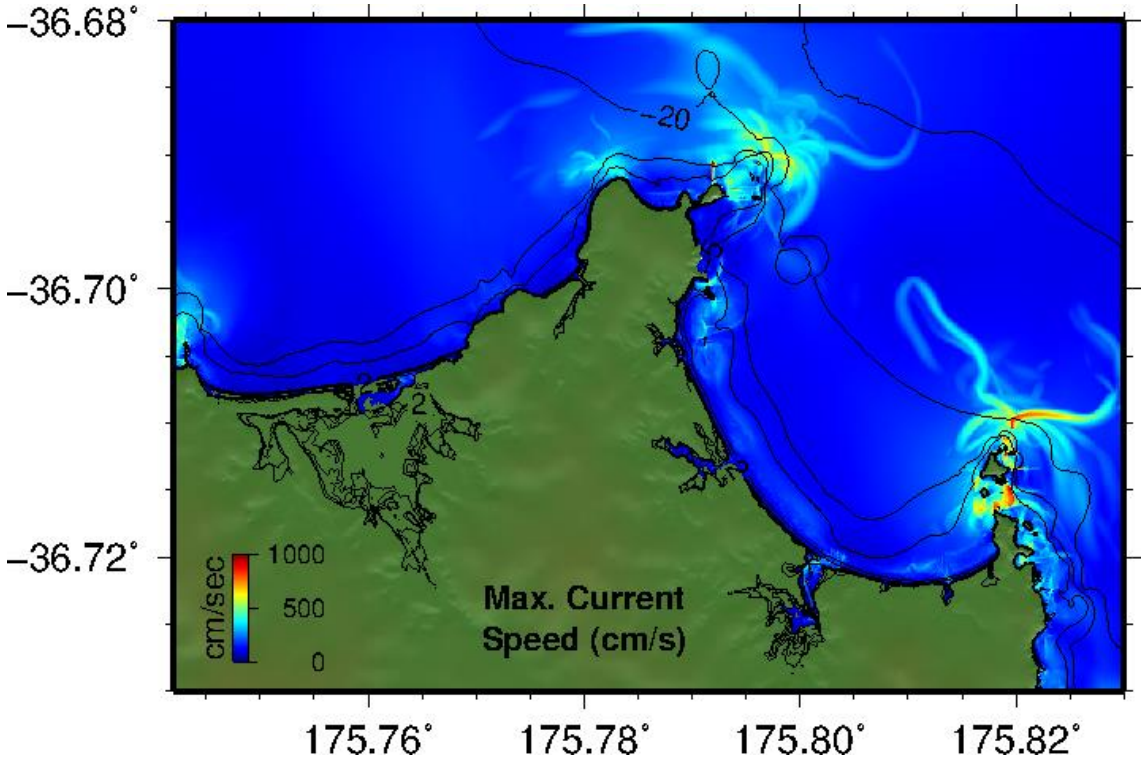
Case 6:


−36.68˚
−36.70˚
−36.72˚
20
2
2
600
300
0
cm
Maximum
Height (cm)
175.76˚
175.78˚
175.80˚
175.82˚

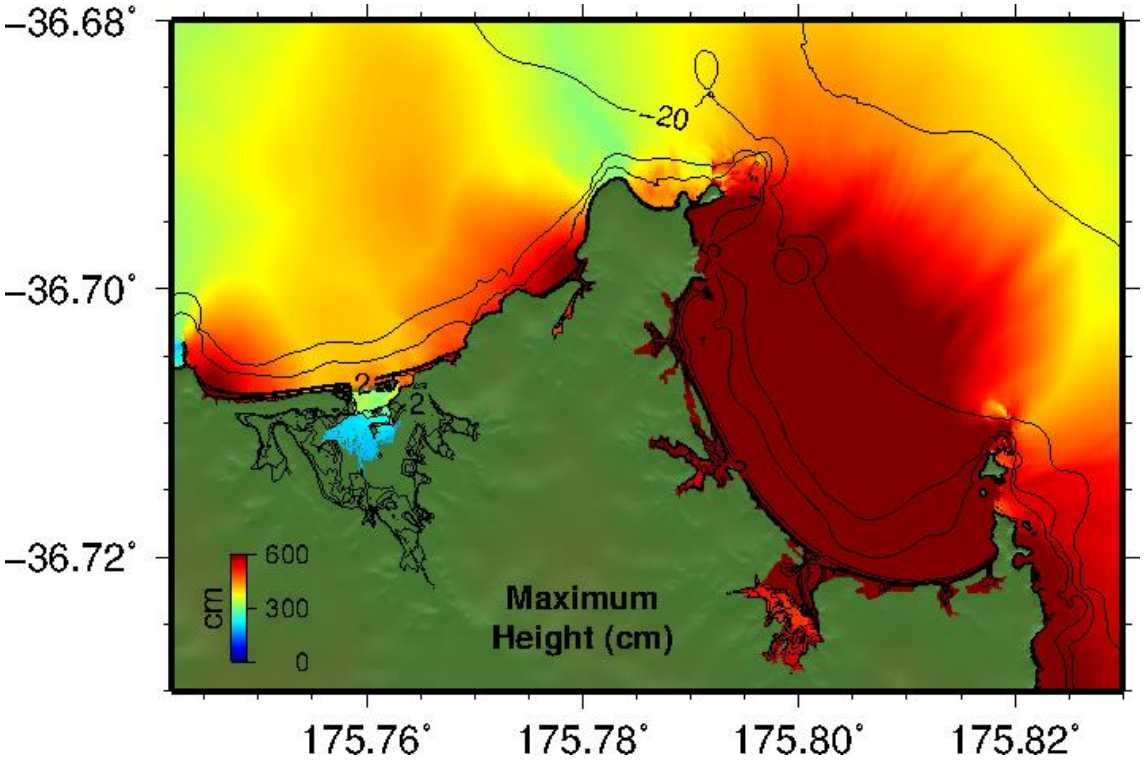

−36.68˚
−36.70˚
−36.72˚
20
2
2
1000
500
0
cm/sec
Max. Current
Speed (cm/s)
175.76˚
175.78˚
175.80˚
175.82˚

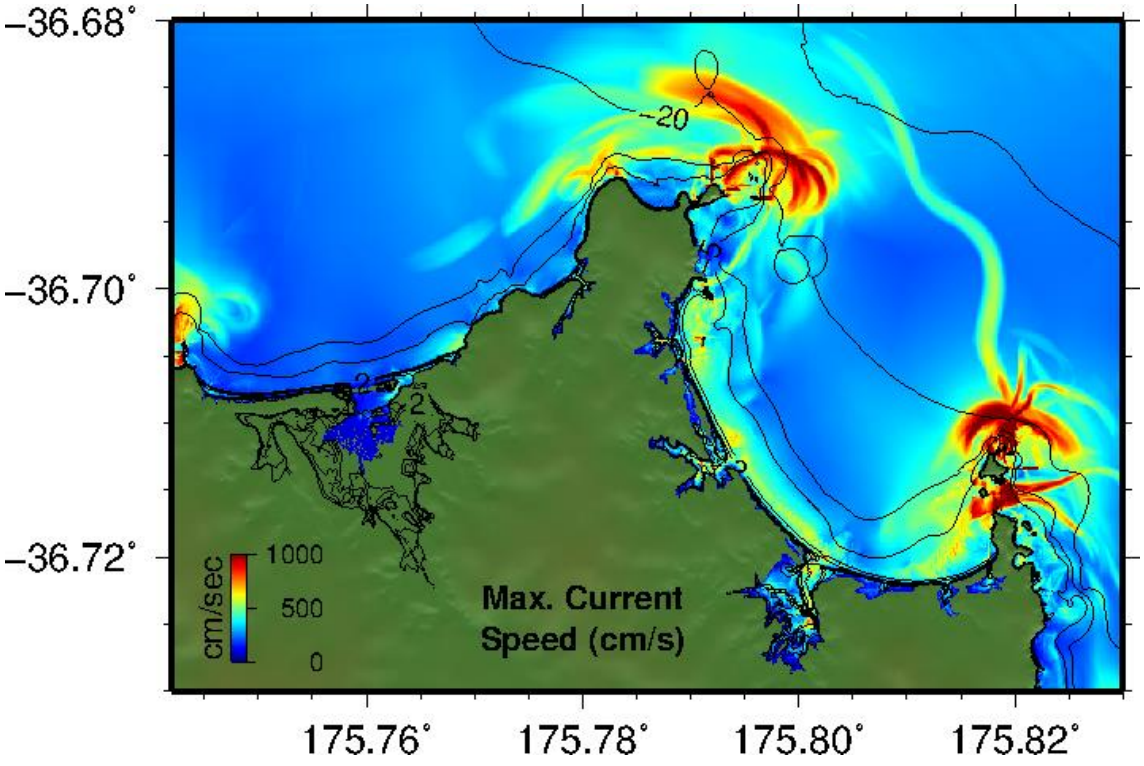
Case 7:


−36.68˚
−36.70˚
−36.72˚
−20
2
5
cm
600
300
0
Maximum
Height (cm)
175.76˚
175.78˚
175.80˚
175.82˚


−36.68˚
−36.70˚
−36.72˚
−20
2
cm/sec
1000
500
0
Max. Current
Speed (cm/s)
175.76˚
175.78˚
175.80˚
175.82˚

Case 8:


−36.68˚
−36.70˚
−36.72˚
−20
2
2
600
300
0
cm
Maximum
Height (cm)
175.76˚
175.78˚
175.80˚
175.82˚


−36.68˚
−36.70˚
−36.72˚
−20
2
2
1000
500
0
cm/sec
Max. Current
Speed (cm/s)
175.76˚
175.78˚
175.80˚
175.82˚

Case 8 HT:

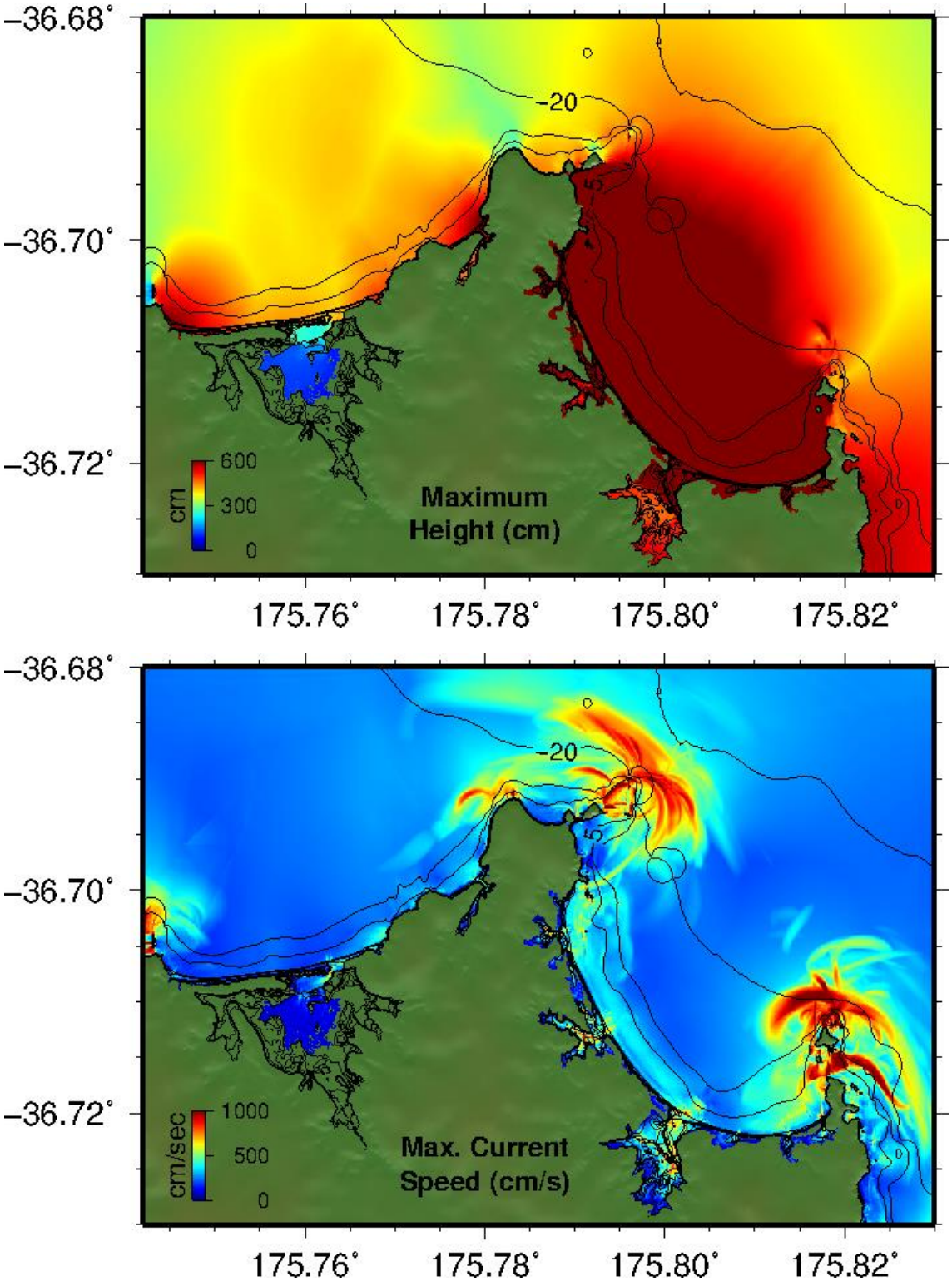
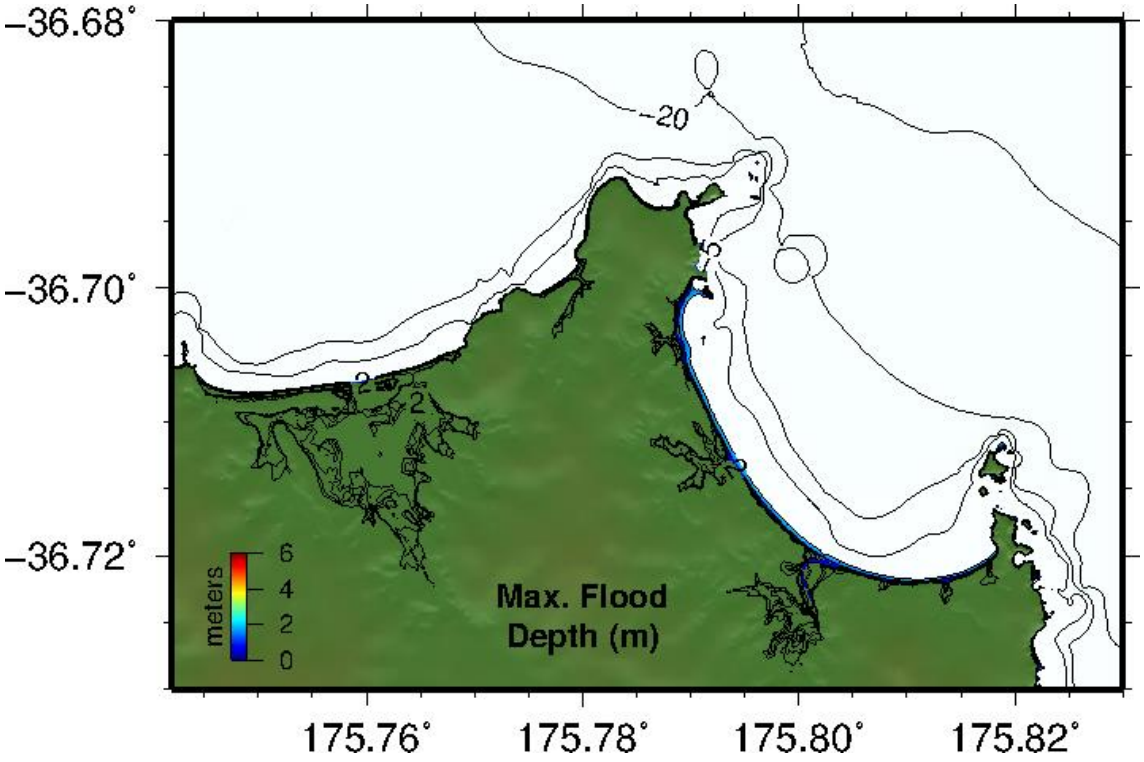
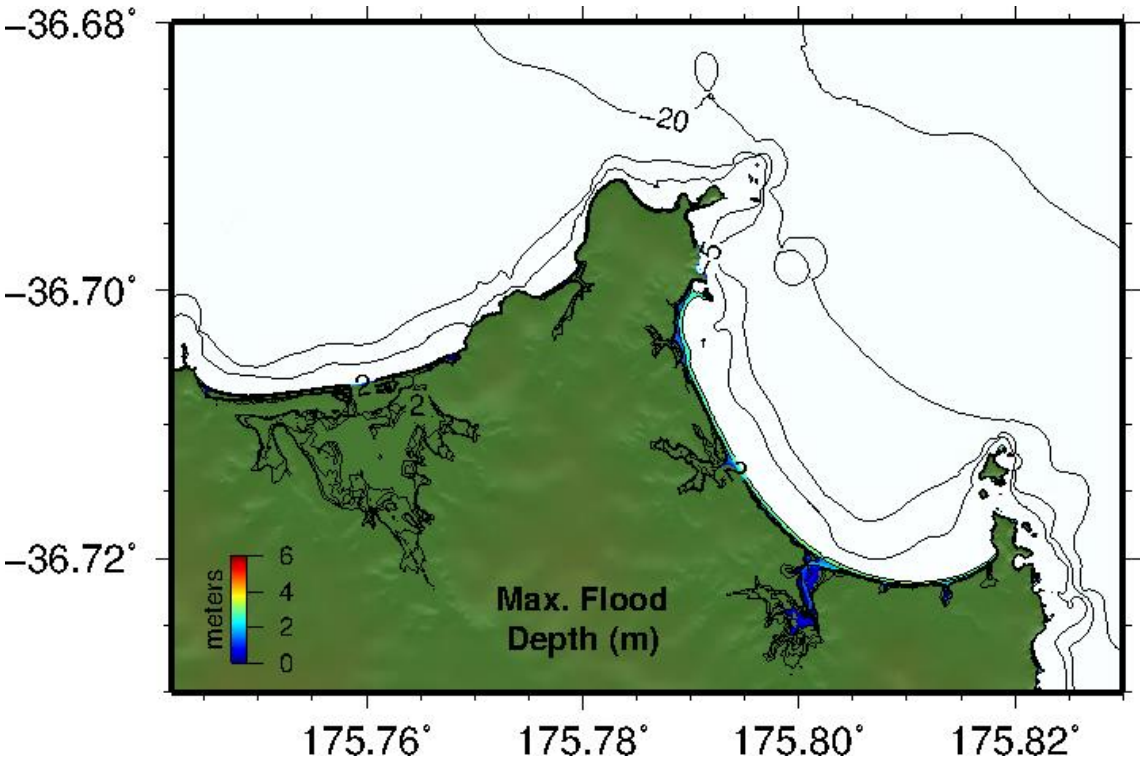



**Figure 5.1 Maximum computed water levels and current speeds for the Kermadec Trench Cases 1-8 in Opito Bay at MSL and Case 8 at HT.**

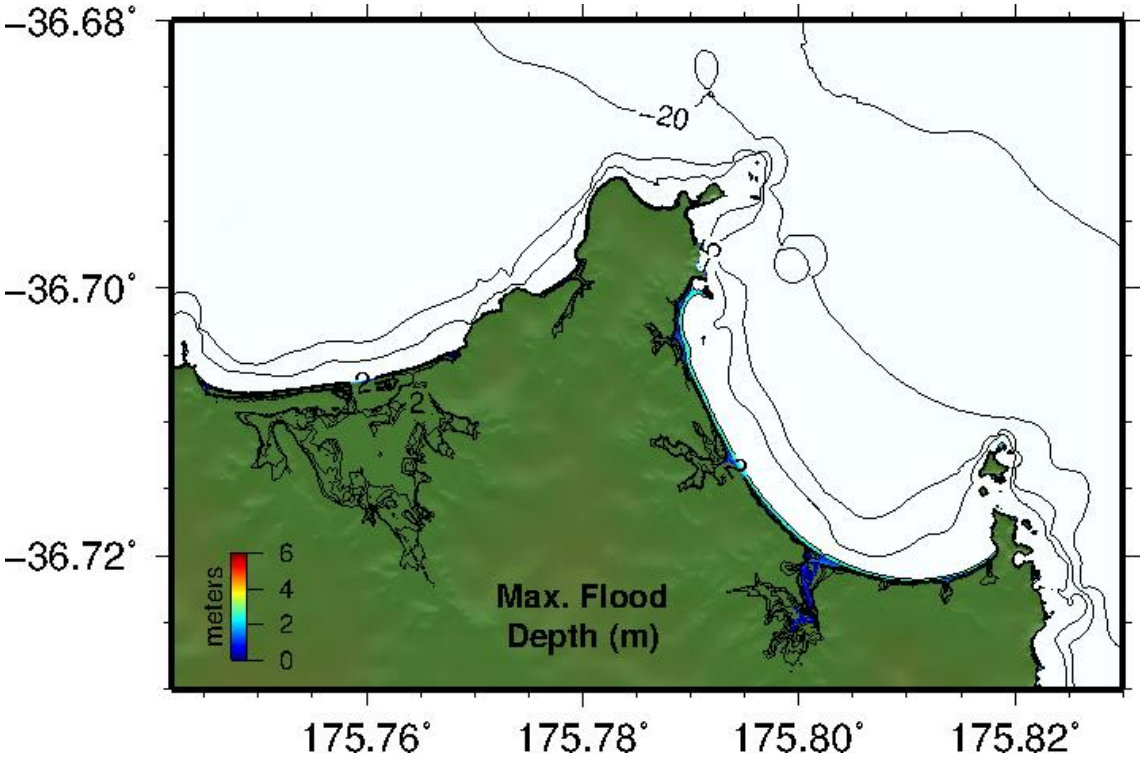
Case 1:


−36.68˚
−36.70˚
−36.72˚
−20
5
2
2
meters
6
4
2
0
Max. Flood
Depth (m)
175.76˚
175.78˚
175.80˚
175.82˚

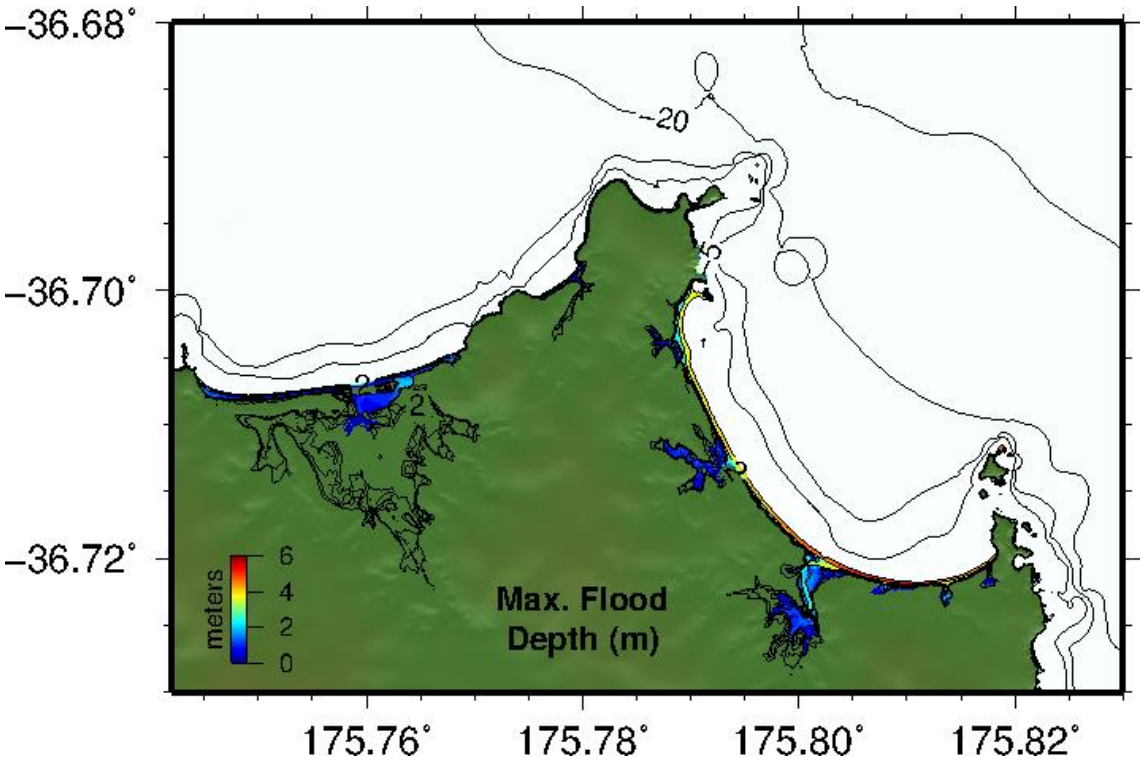
Case 2:


−36.68˚
−36.70˚
−36.72˚
−20
5
2
2
meters
6
4
2
0
Max. Flood
Depth (m)
175.76˚
175.78˚
175.80˚
175.82˚

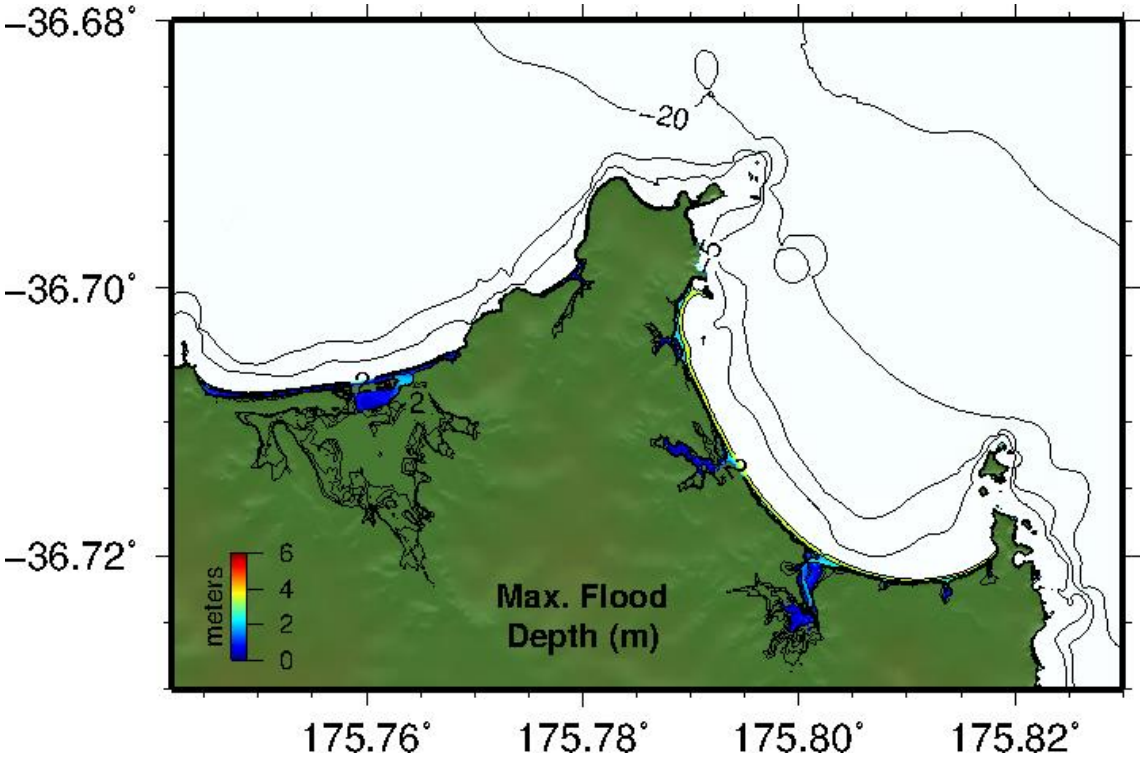
Case 3:


−36.68˚
−36.70˚
−36.72˚
−20
2
2
5
meters
6
4
2
0
Max. Flood
Depth (m)
175.76˚
175.78˚
175.80˚
175.82˚

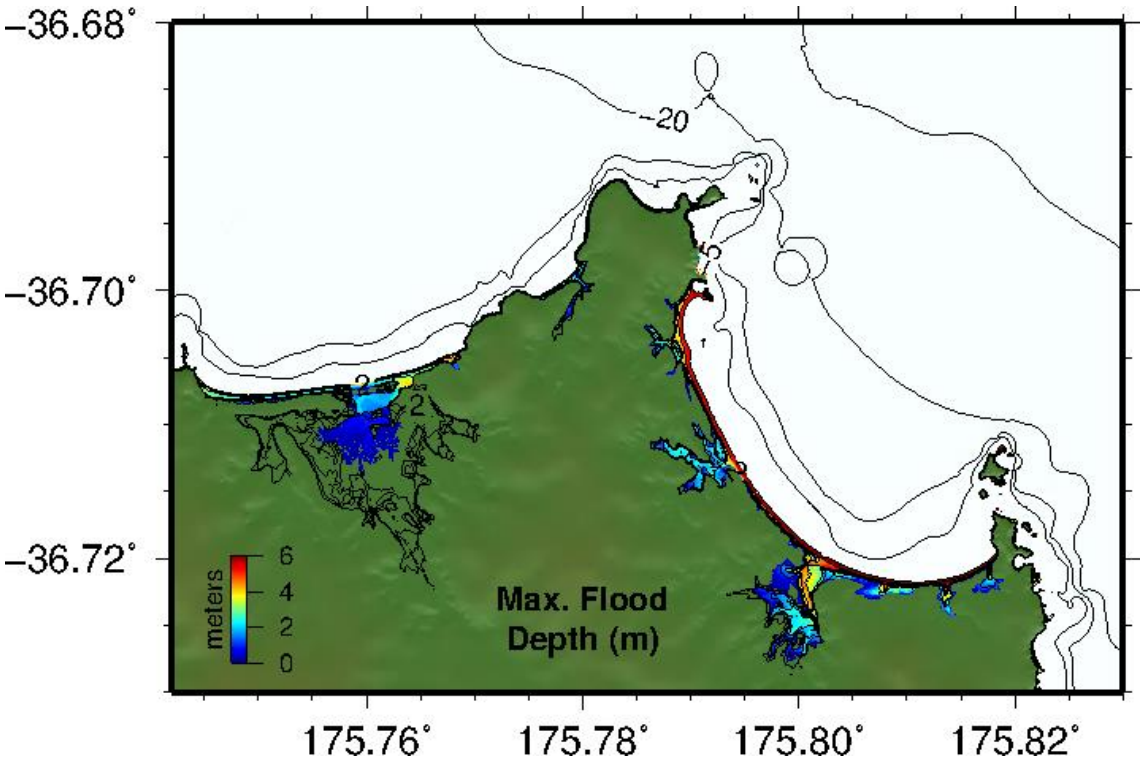
Case 4:


−36.68˚
−36.70˚
−36.72˚
−20
2
2
5
meters
6
4
2
0
Max. Flood
Depth (m)
175.76˚
175.78˚
175.80˚
175.82˚

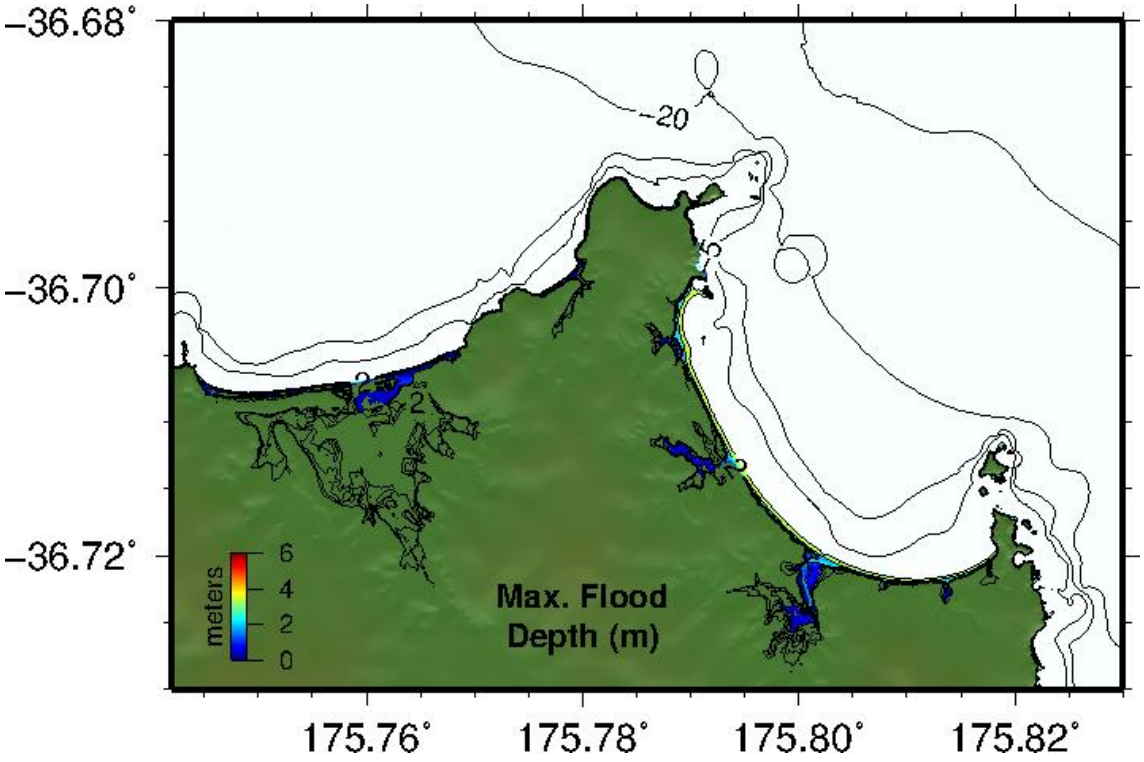
Case 5:


−36.68˚
−36.70˚
−36.72˚
175.76˚
175.78˚
175.80˚
175.82˚
−20
5
2
2
meters
6
4
2
0
Max. Flood
Depth (m)

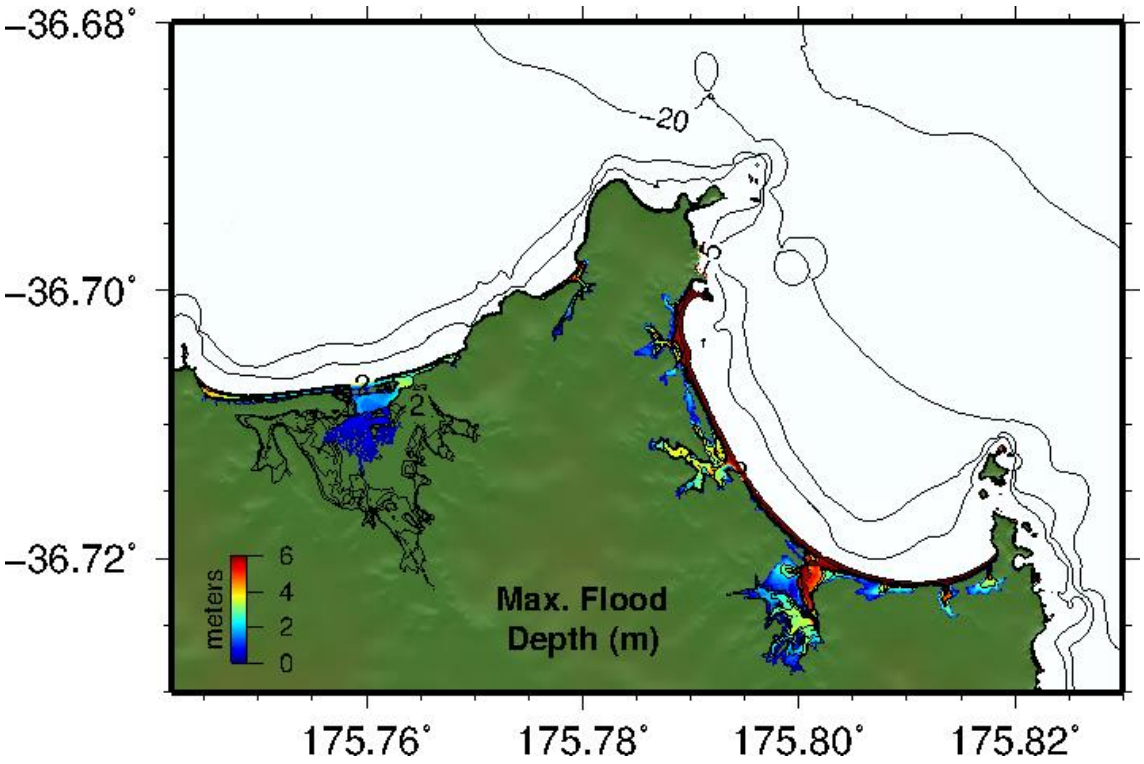
Case 6:


−36.68˚
−36.70˚
−36.72˚
175.76˚
175.78˚
175.80˚
175.82˚
−20
5
2
2
meters
6
4
2
0
Max. Flood
Depth (m)

Case 7:


−36.68˚
−36.70˚
−36.72˚
175.76˚
175.78˚
175.80˚
175.82˚
−20
2
meters
6
4
2
0
Max. Flood
Depth (m)

Case 8:


−36.68˚
−36.70˚
−36.72˚
175.76˚
175.78˚
175.80˚
175.82˚
−20
2
meters
6
4
2
0
Max. Flood
Depth (m)

Case 8 HT:

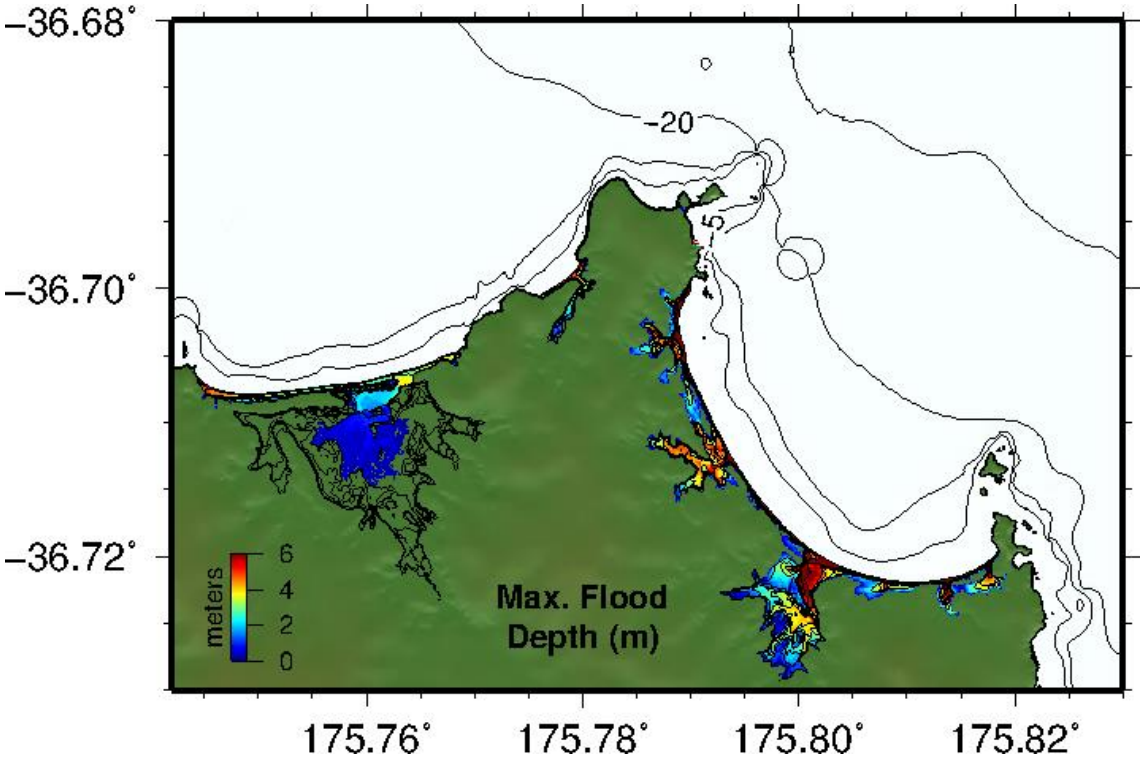
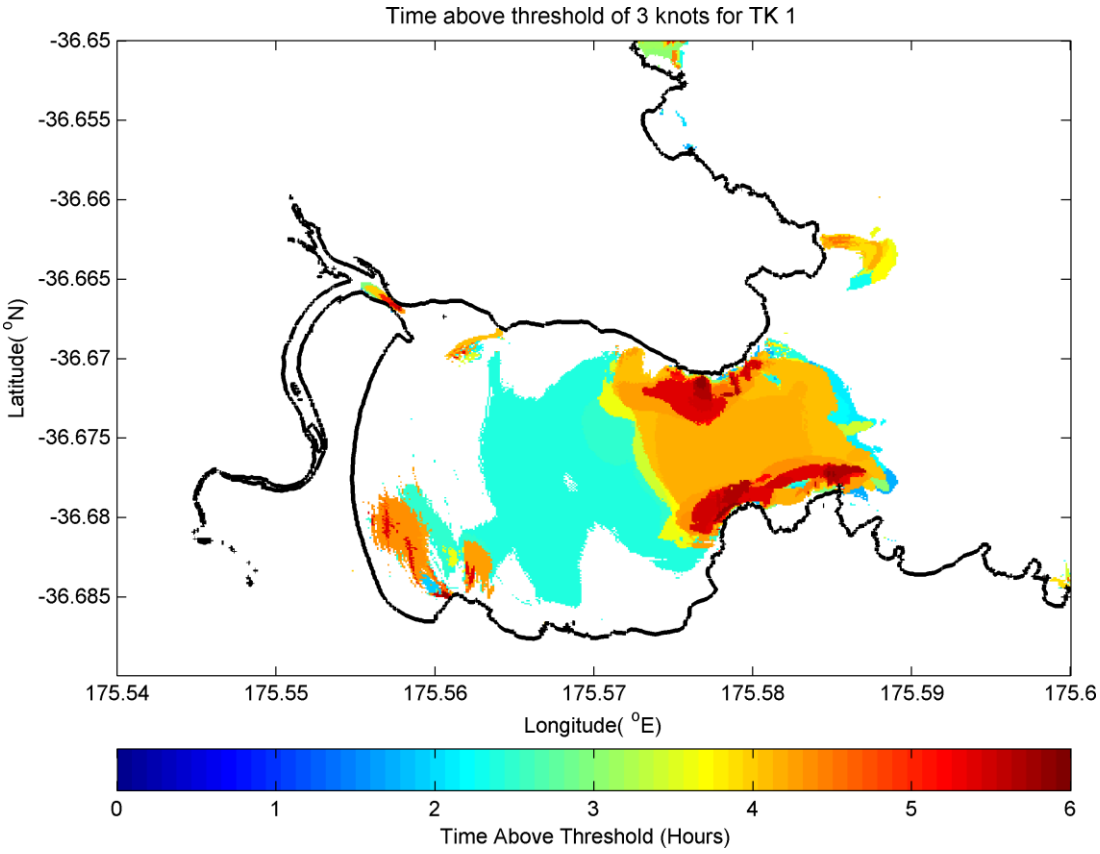
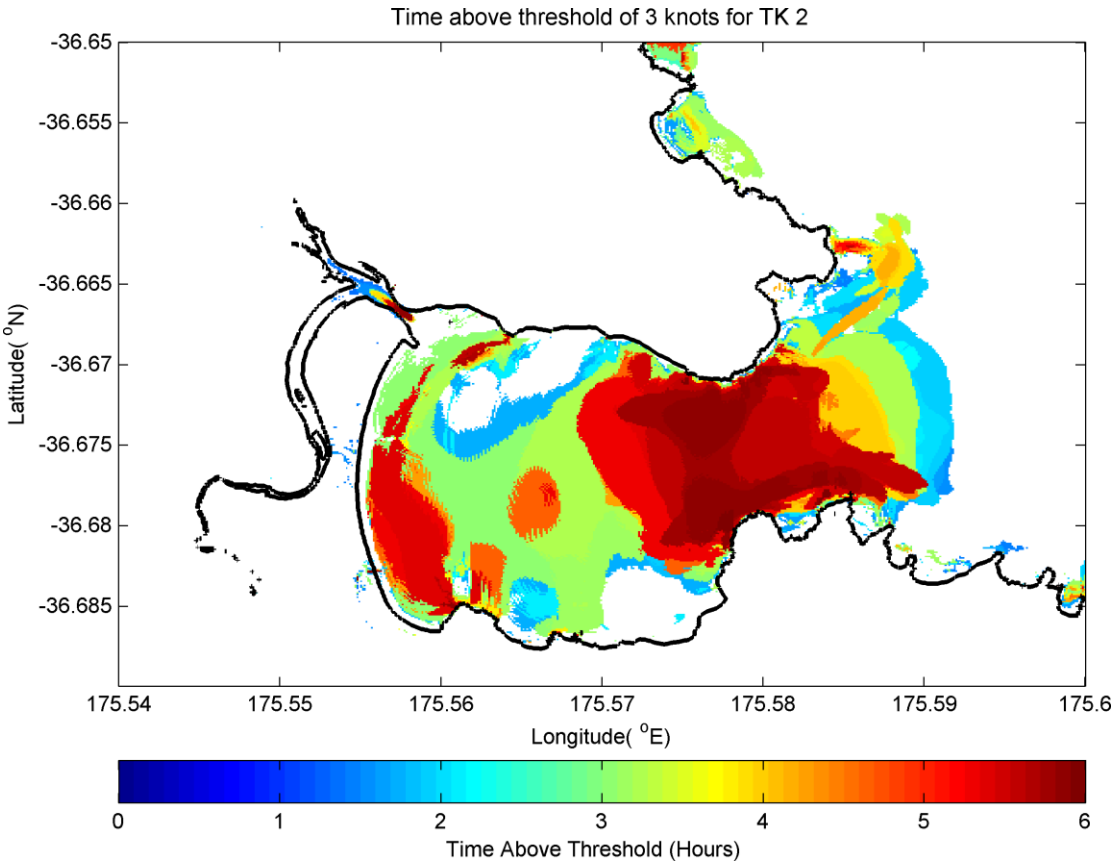
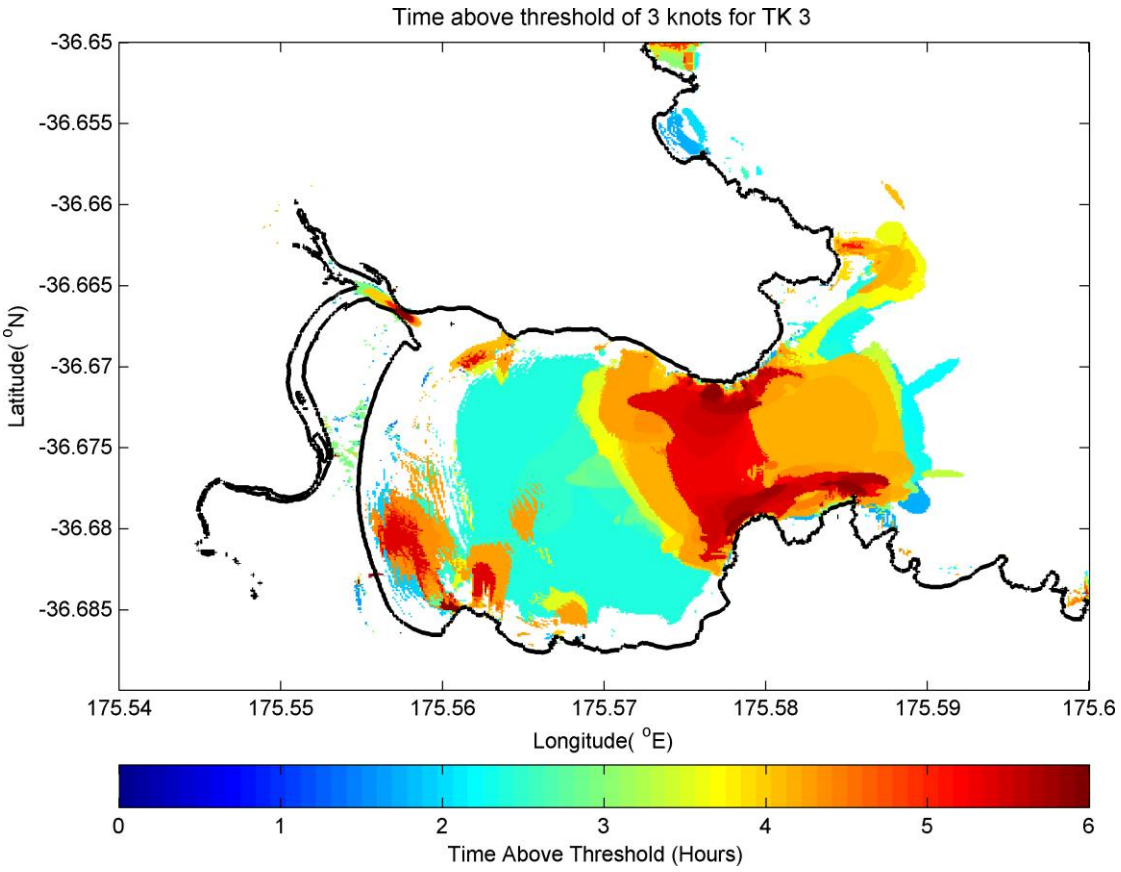


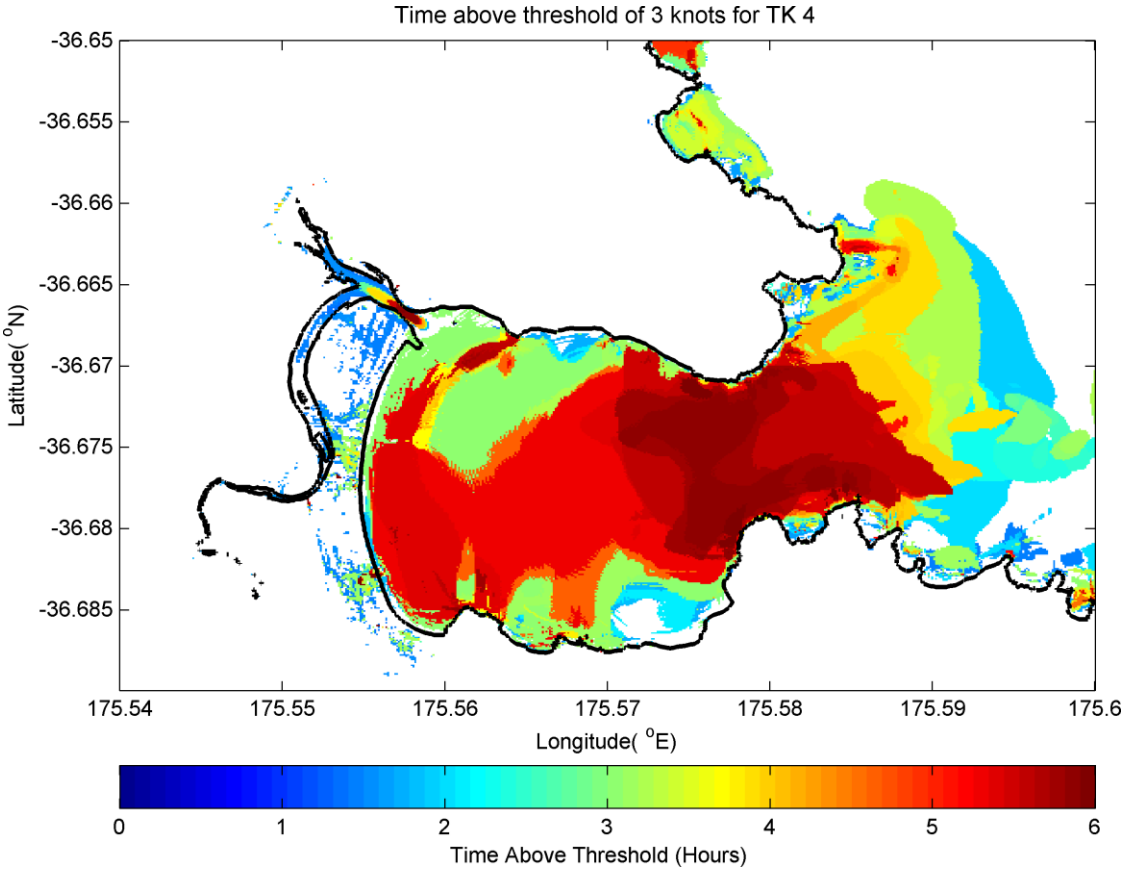

**Figure 5.2 Maximum computed overland flood depths for the Kermadec Trench Cases 1-8 in Opito Bay at MSL and HT**

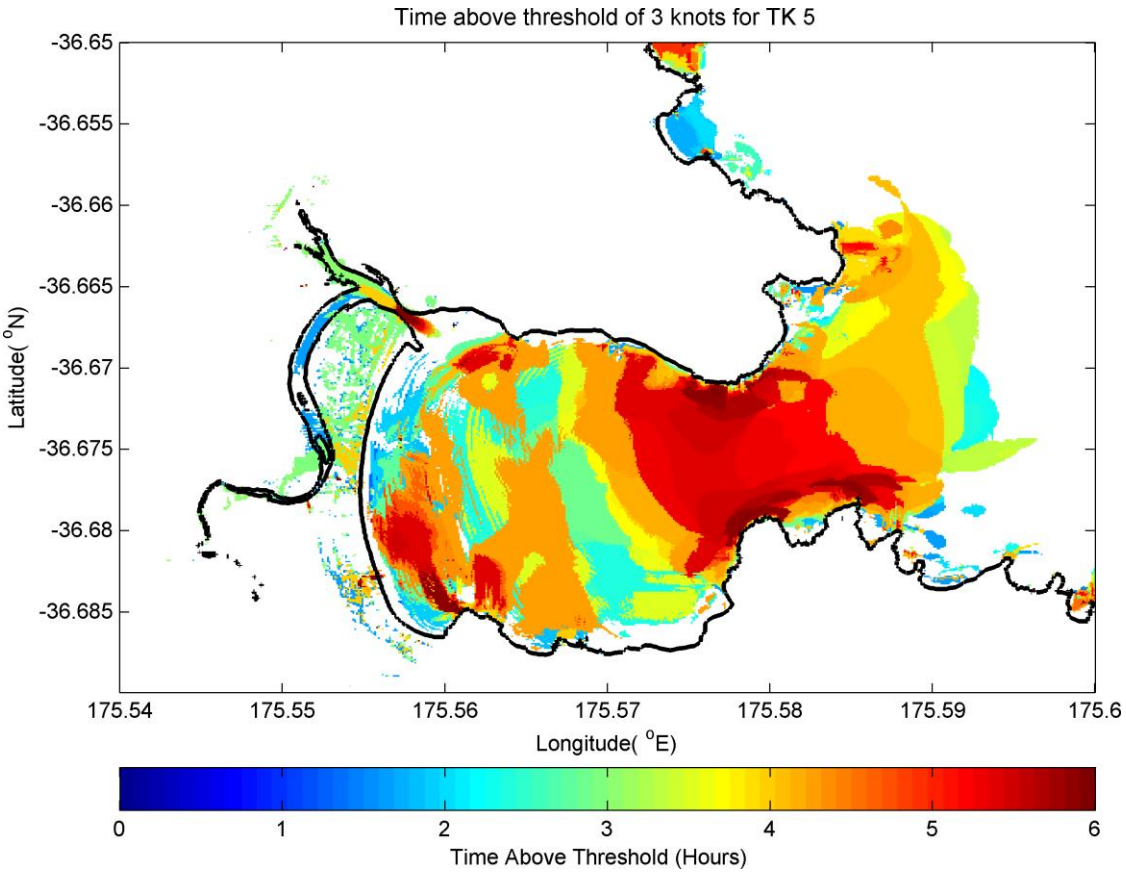
# 6 APPENDIX 6 – KENNEDY BAY: TK TRENCH CURRENT SPEED DURATION

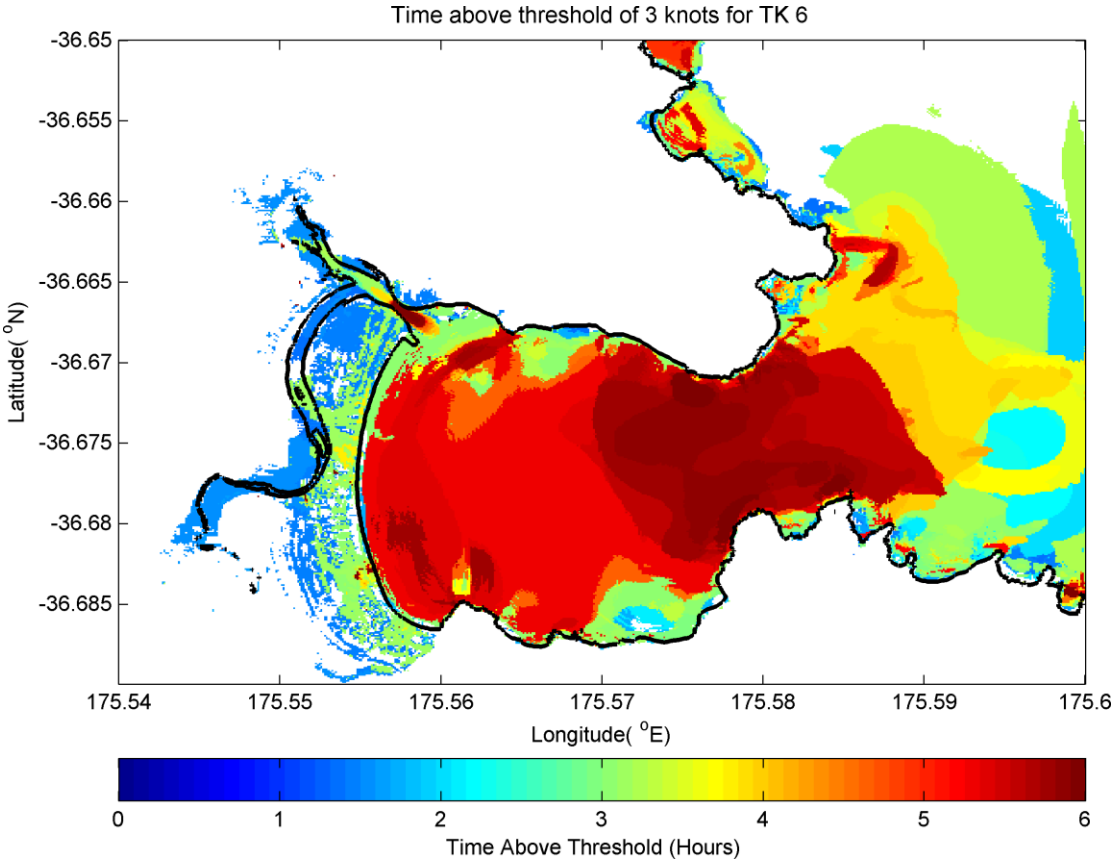


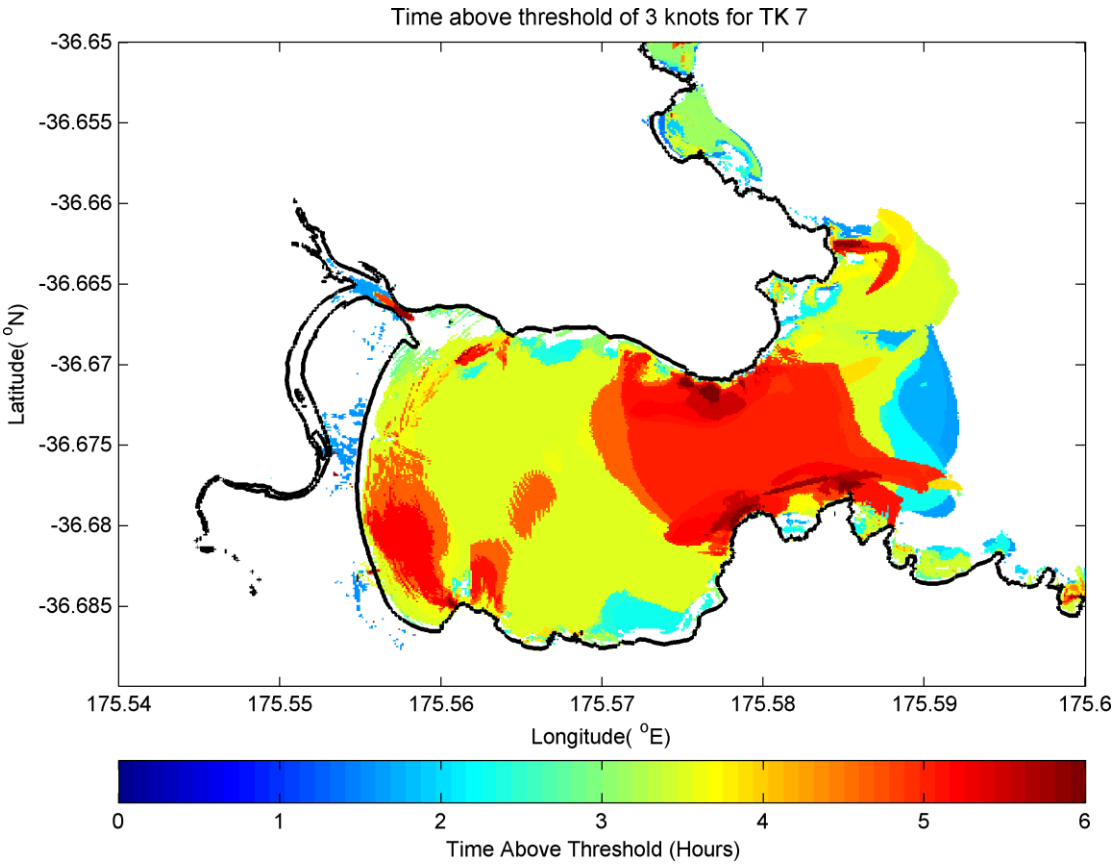



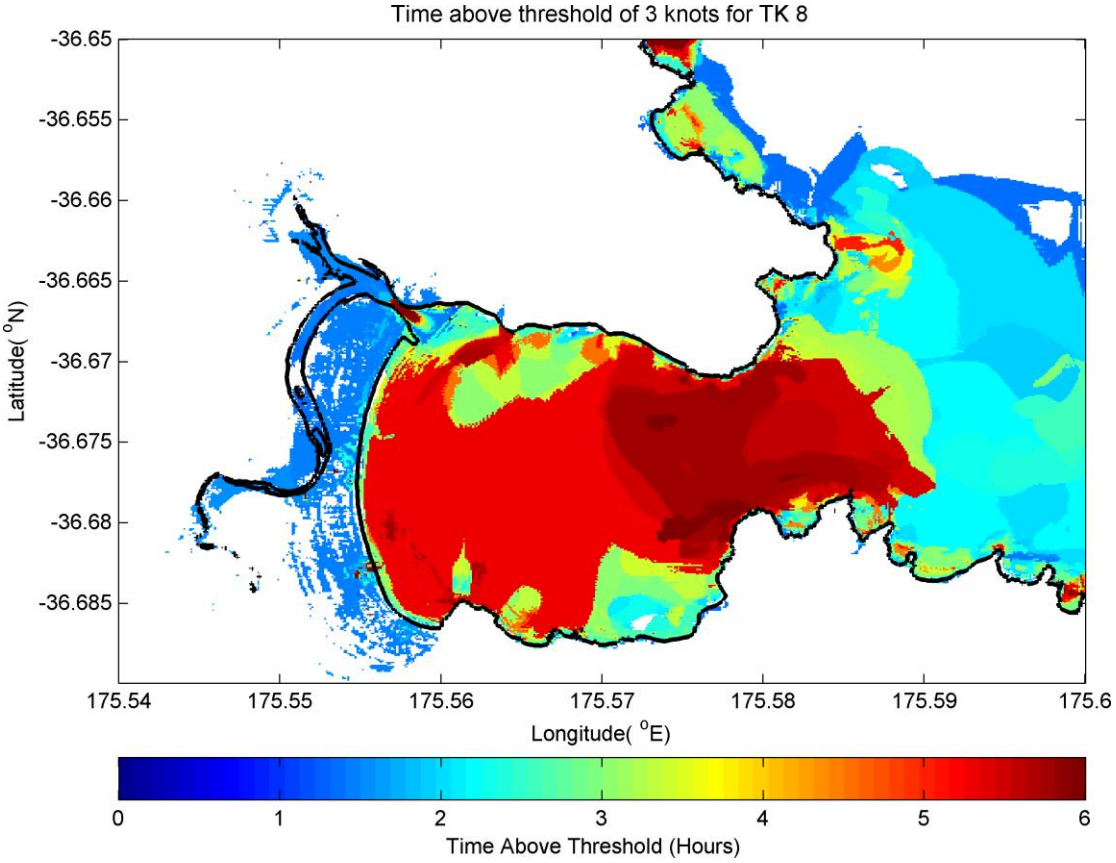

Time above threshold of 3 knots for TK 3
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)


Time above threshold of 3 knots for TK 4
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

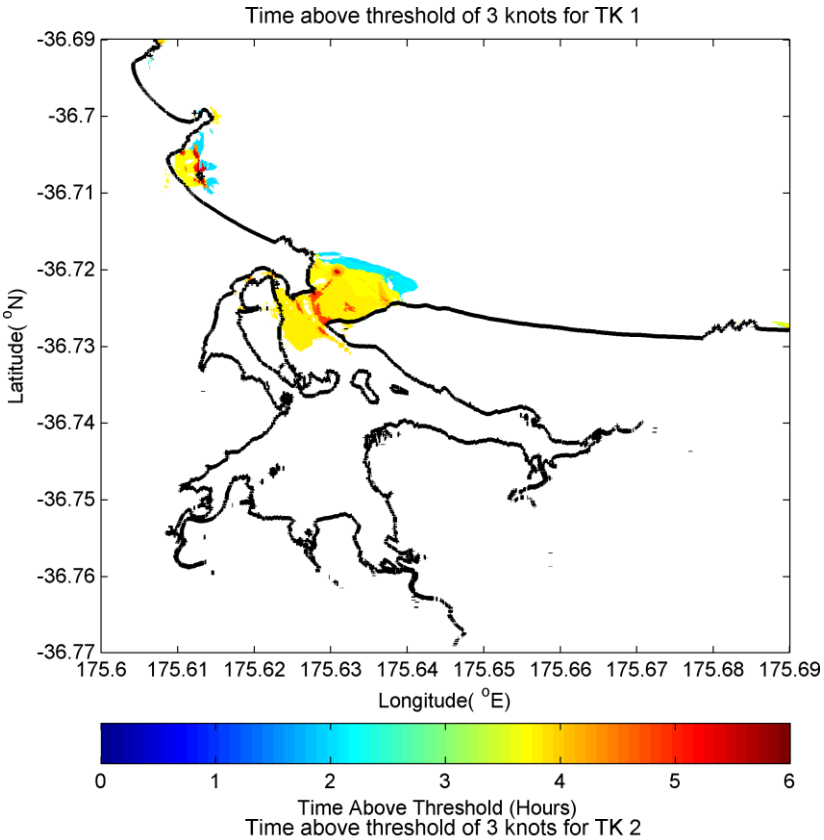

Time above threshold of 3 knots for TK 5
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

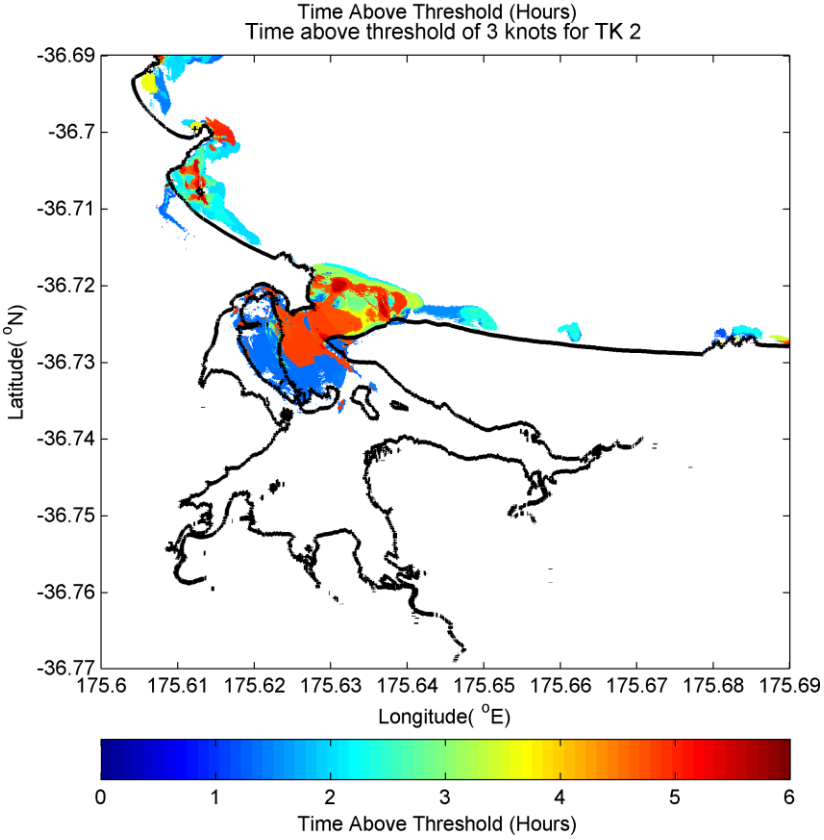

Time above threshold of 3 knots for TK 6
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

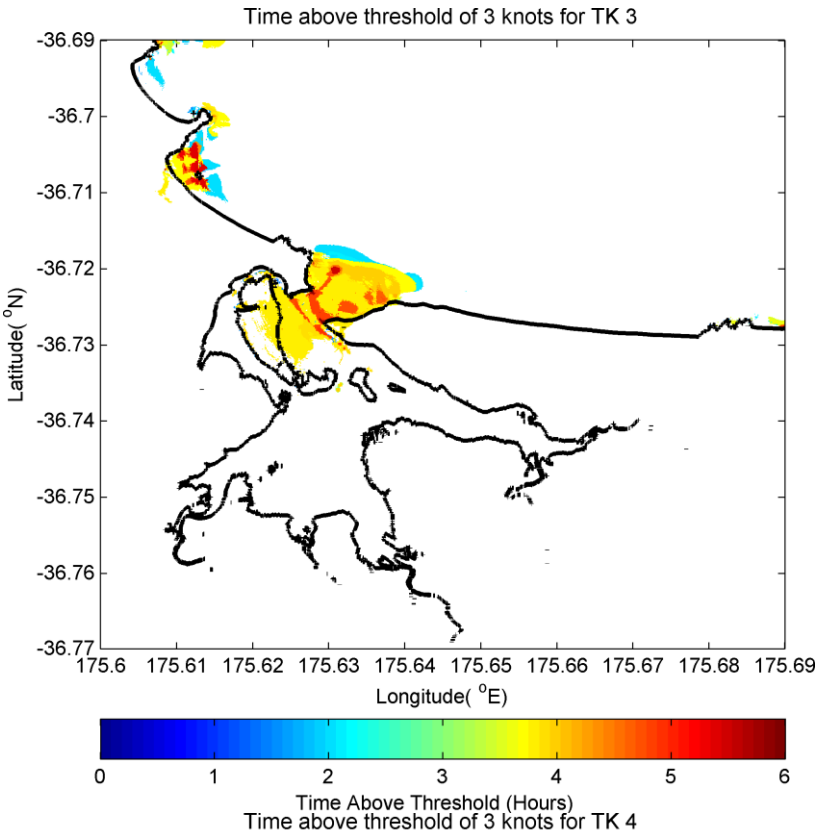

Time above threshold of 3 knots for TK 7
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

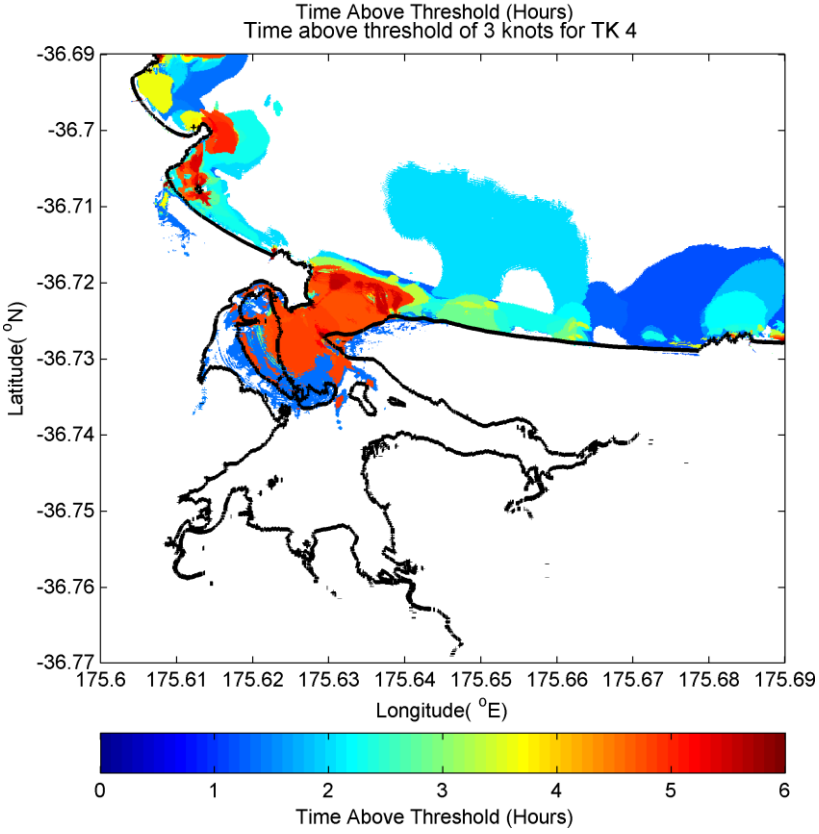

Time above threshold of 3 knots for TK 8
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

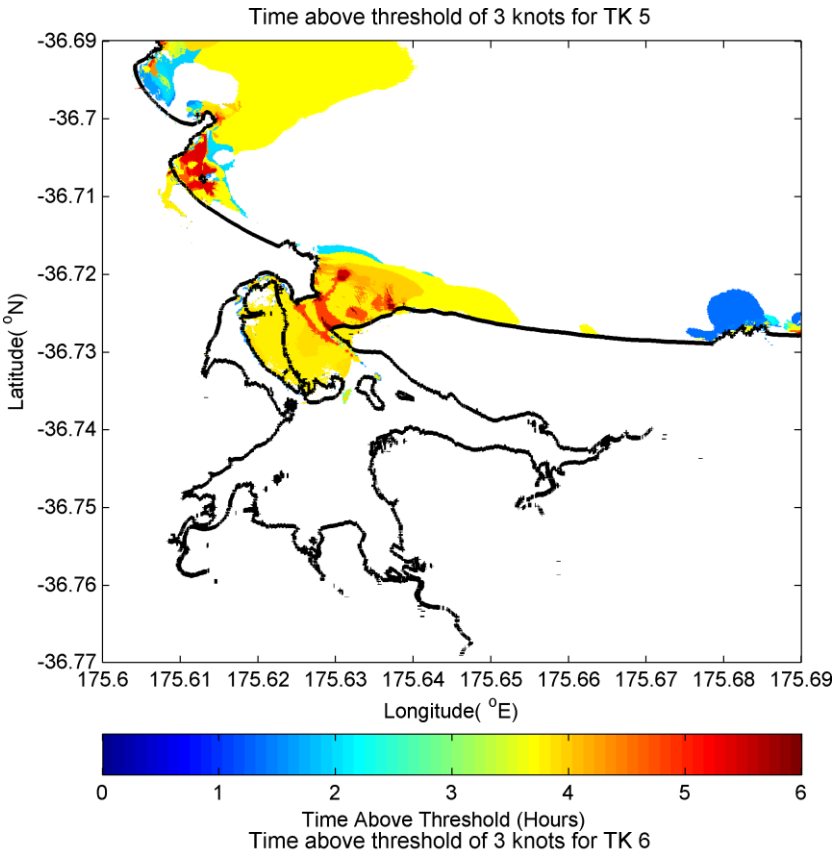
# 7 APPENDIX 7 – WHANGAPOUA: TK TRENCH CURRENT SPEED DURATION

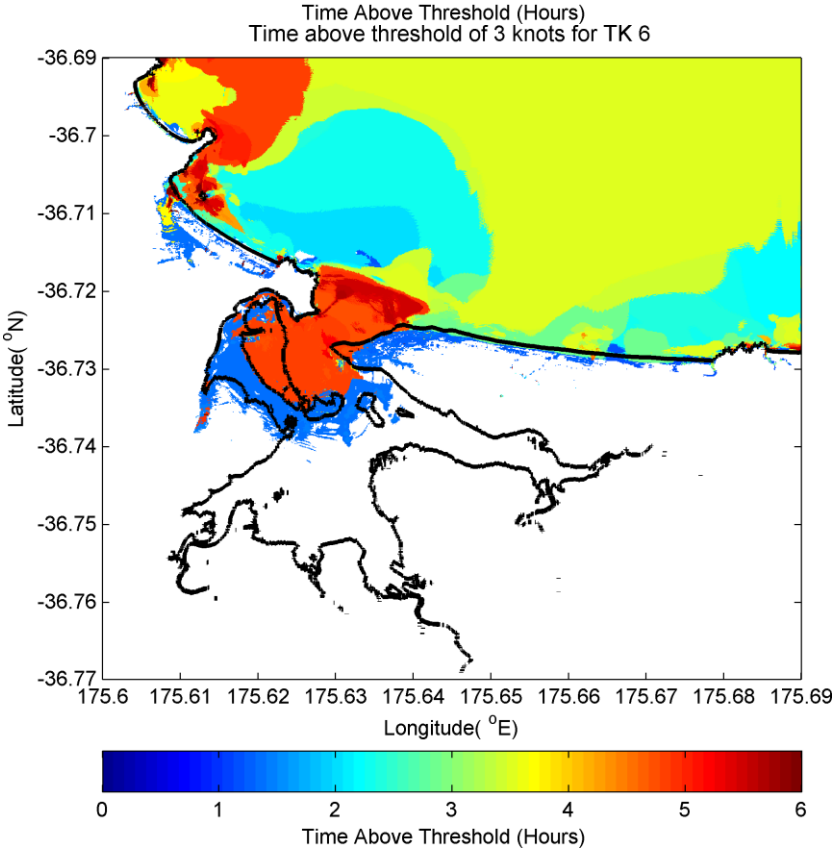


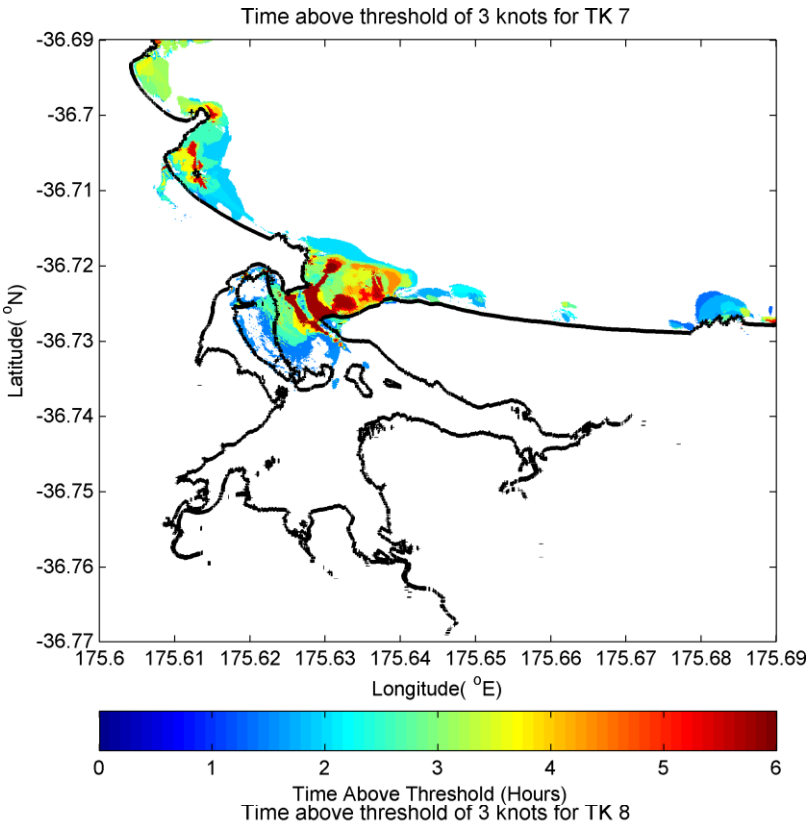



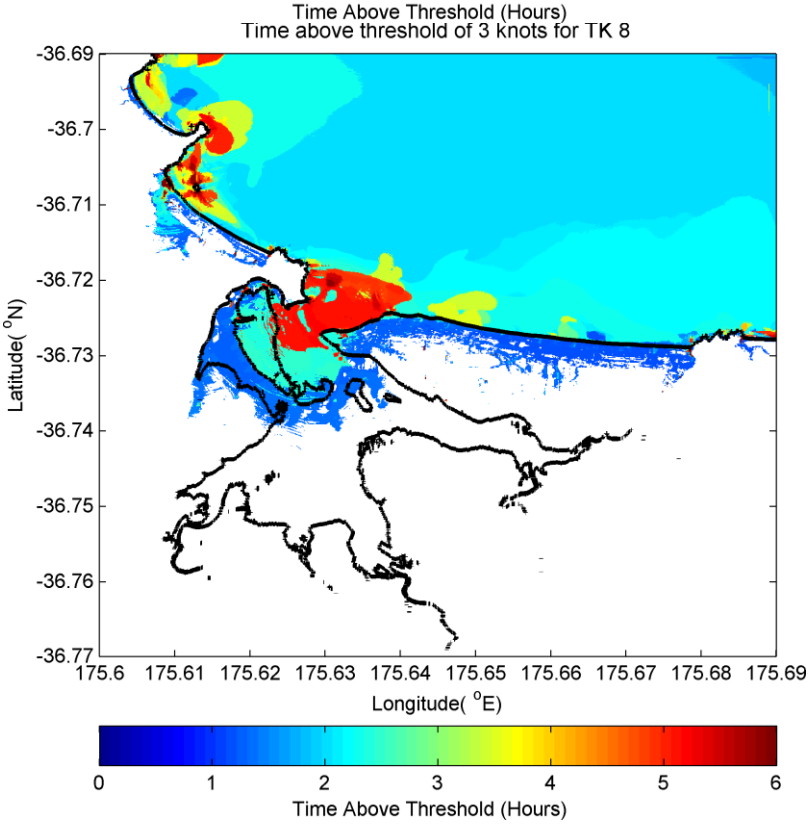

Time above threshold of 3 knots for TK 3
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)


Time above threshold of 3 knots for TK 4
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

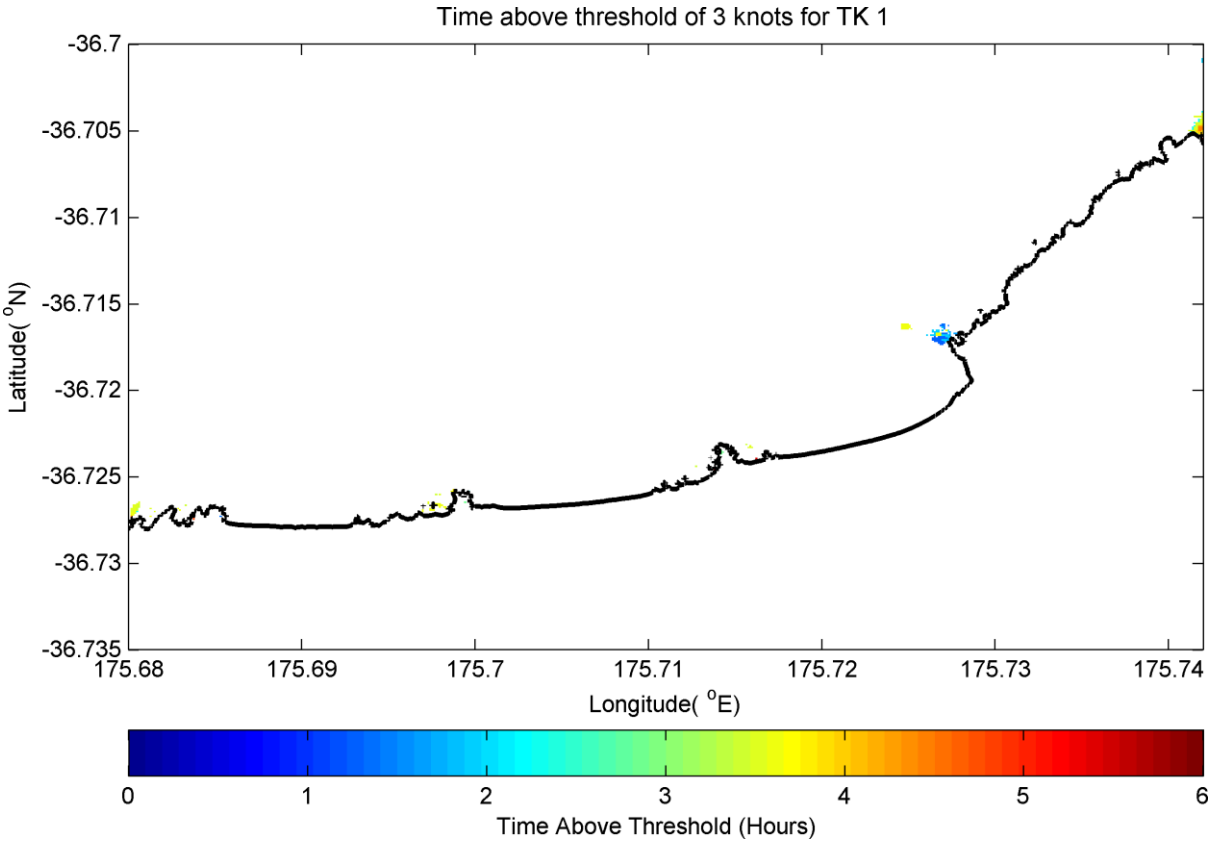

Time above threshold of 3 knots for TK 5
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

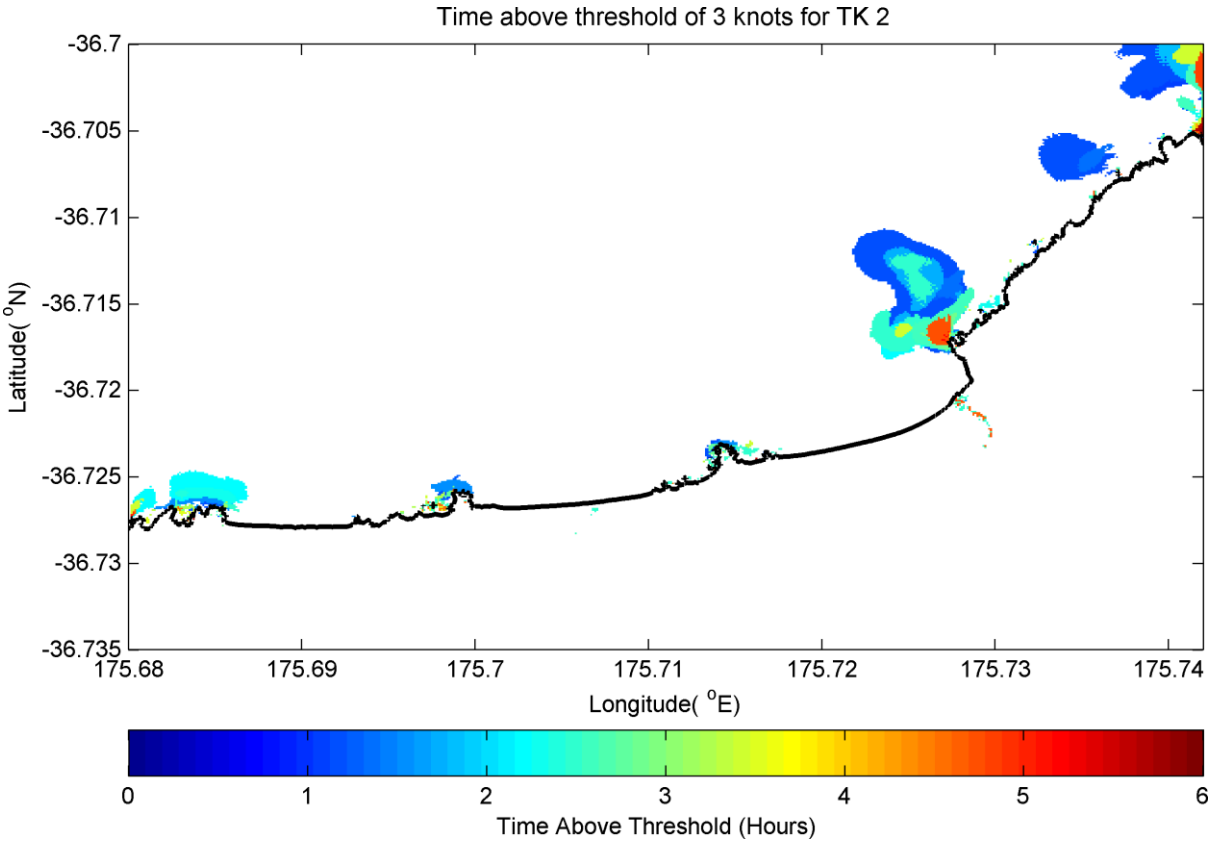

Time above threshold of 3 knots for TK 6
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

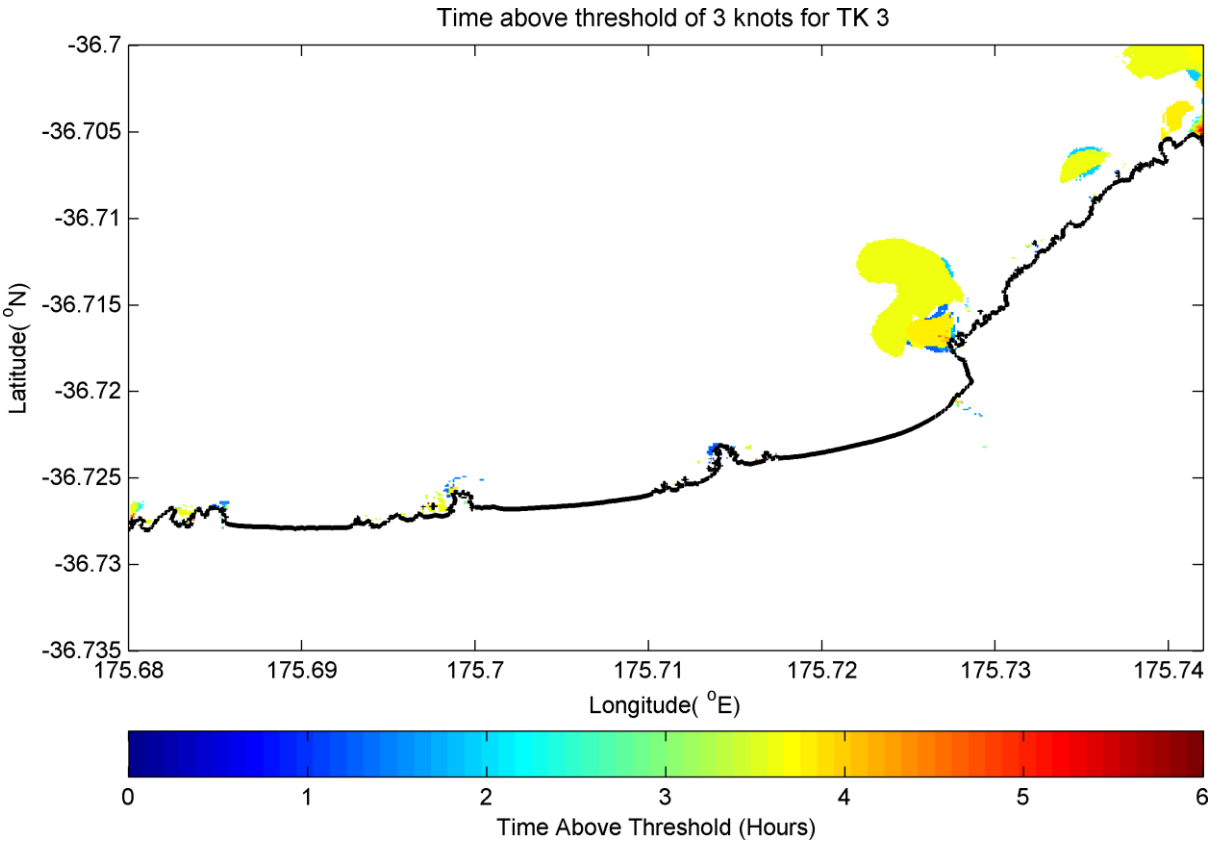

Time above threshold of 3 knots for TK 7
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6 175.61 175.62 175.63 175.64 175.65 175.66 175.67 175.68 175.69
Longitude( °E)
0 1 2 3 4 5 6
Time Above Threshold (Hours)

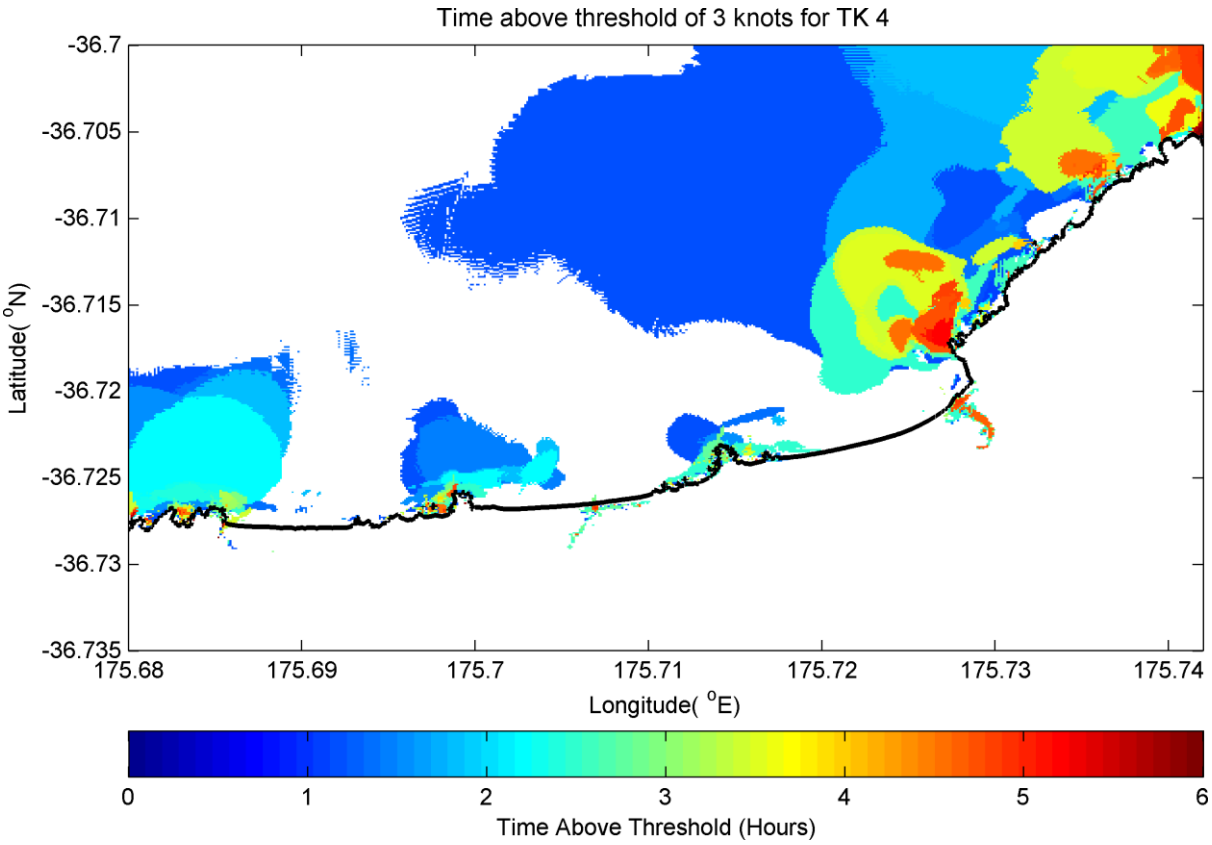

Time above threshold of 3 knots for TK 8
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6 175.61 175.62 175.63 175.64 175.65 175.66 175.67 175.68 175.69
Longitude( °E)
0 1 2 3 4 5 6
Time Above Threshold (Hours)

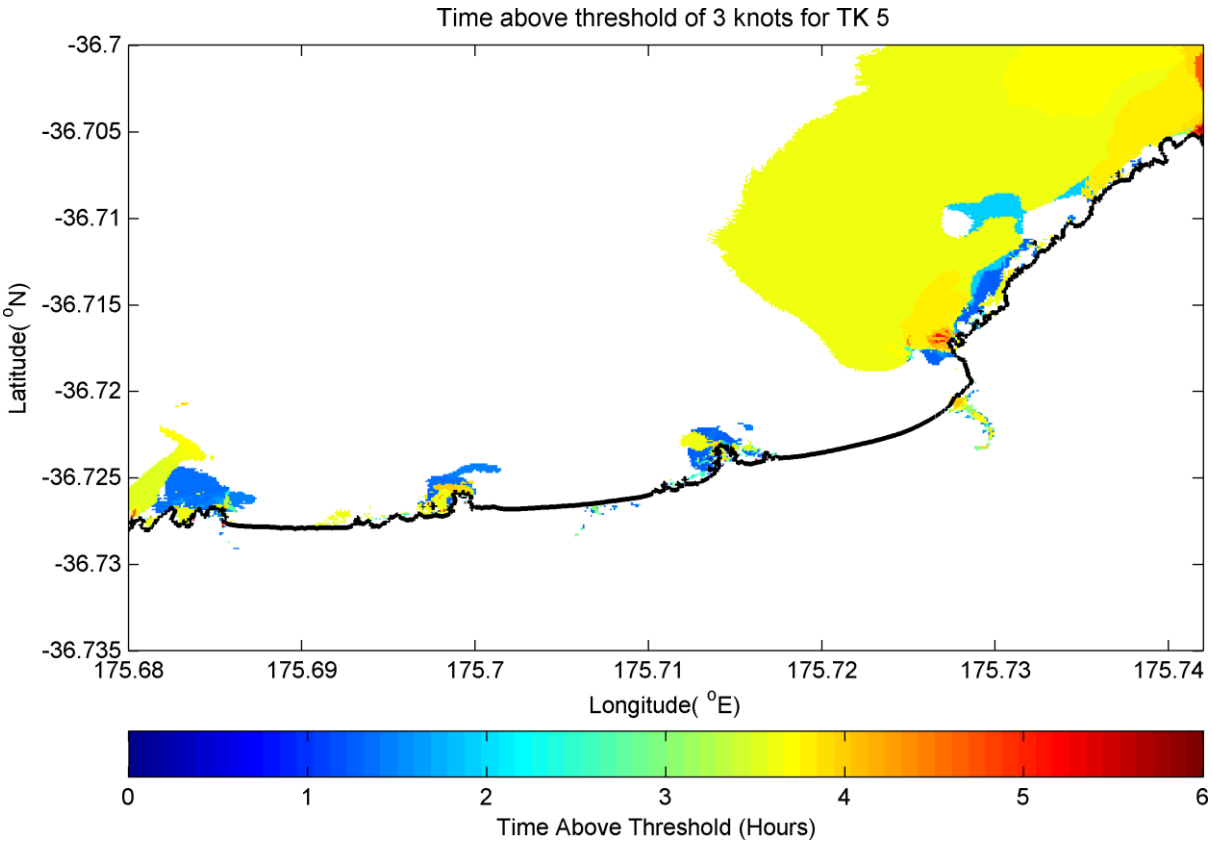
# 8 APPENDIX 8 – KUAOTUNU: TK TRENCH CURRENT SPEED DURATION

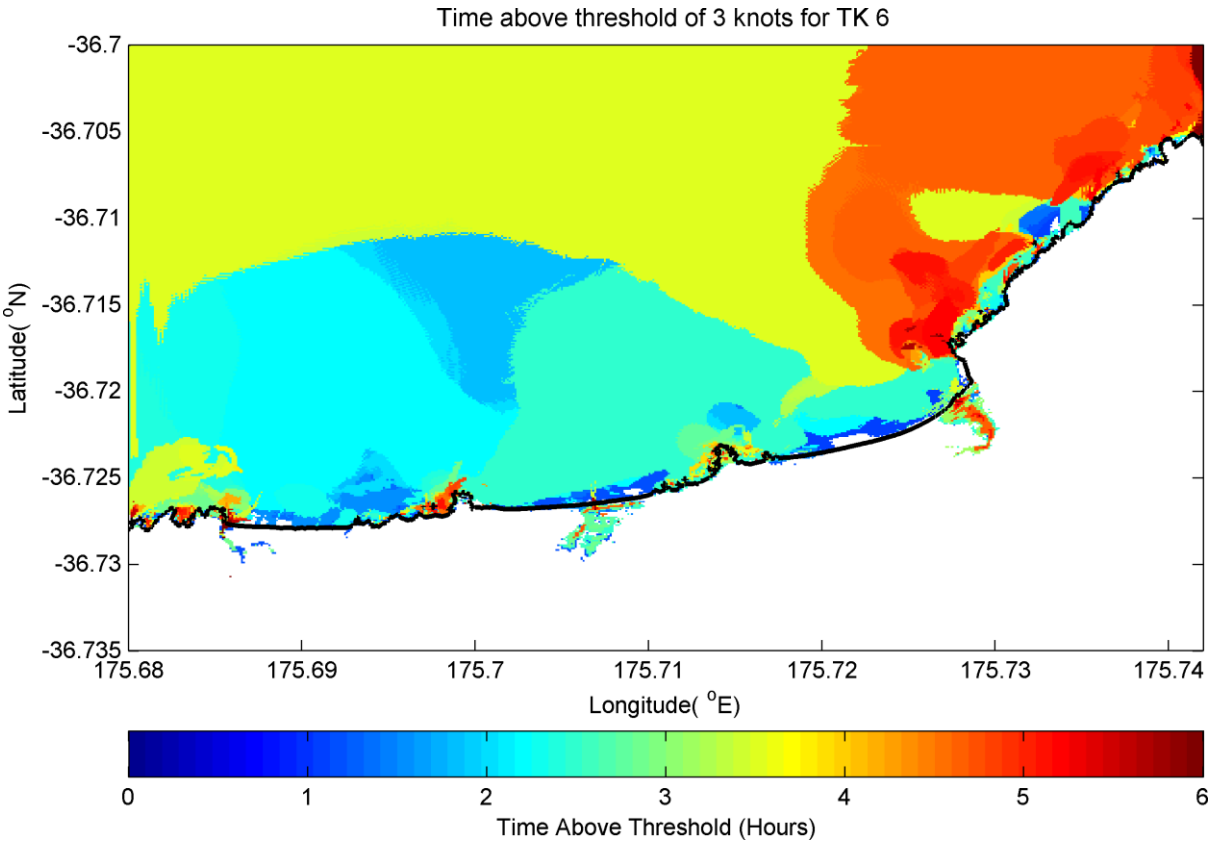


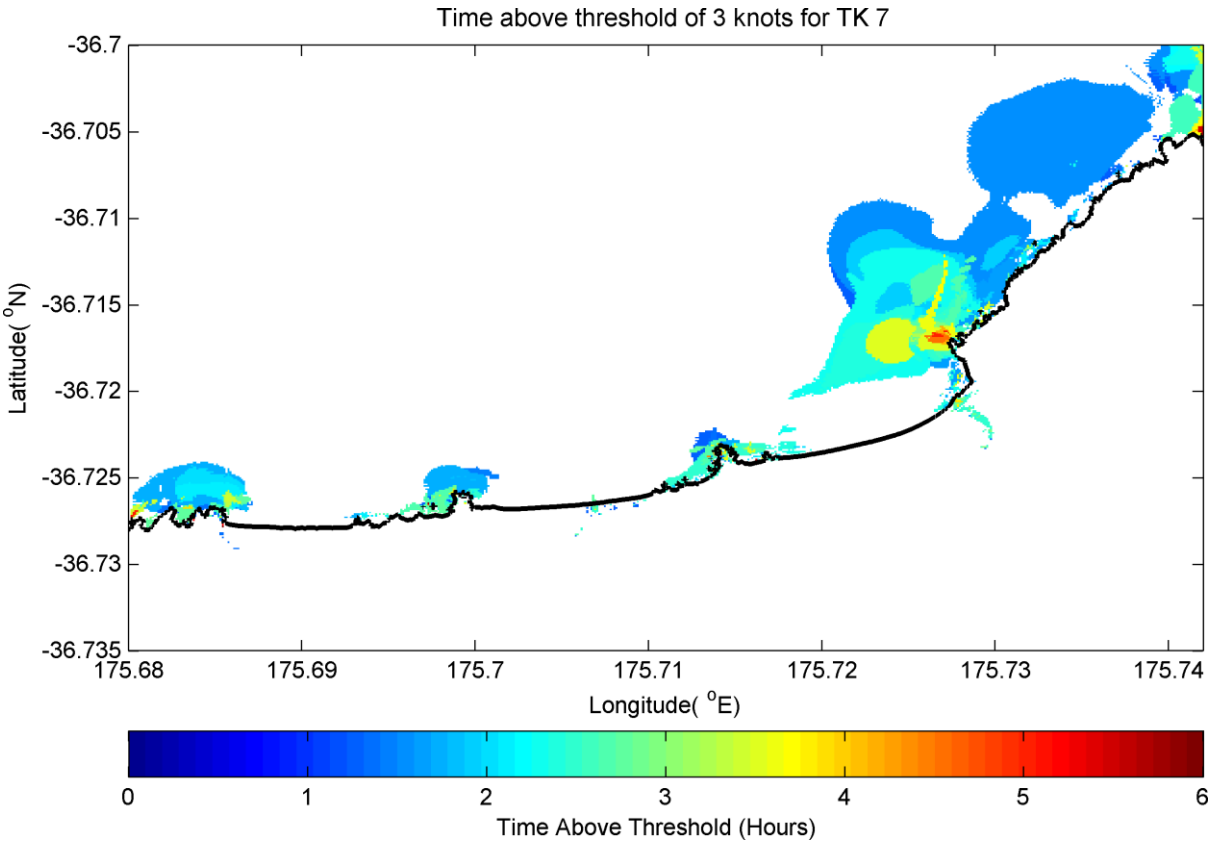



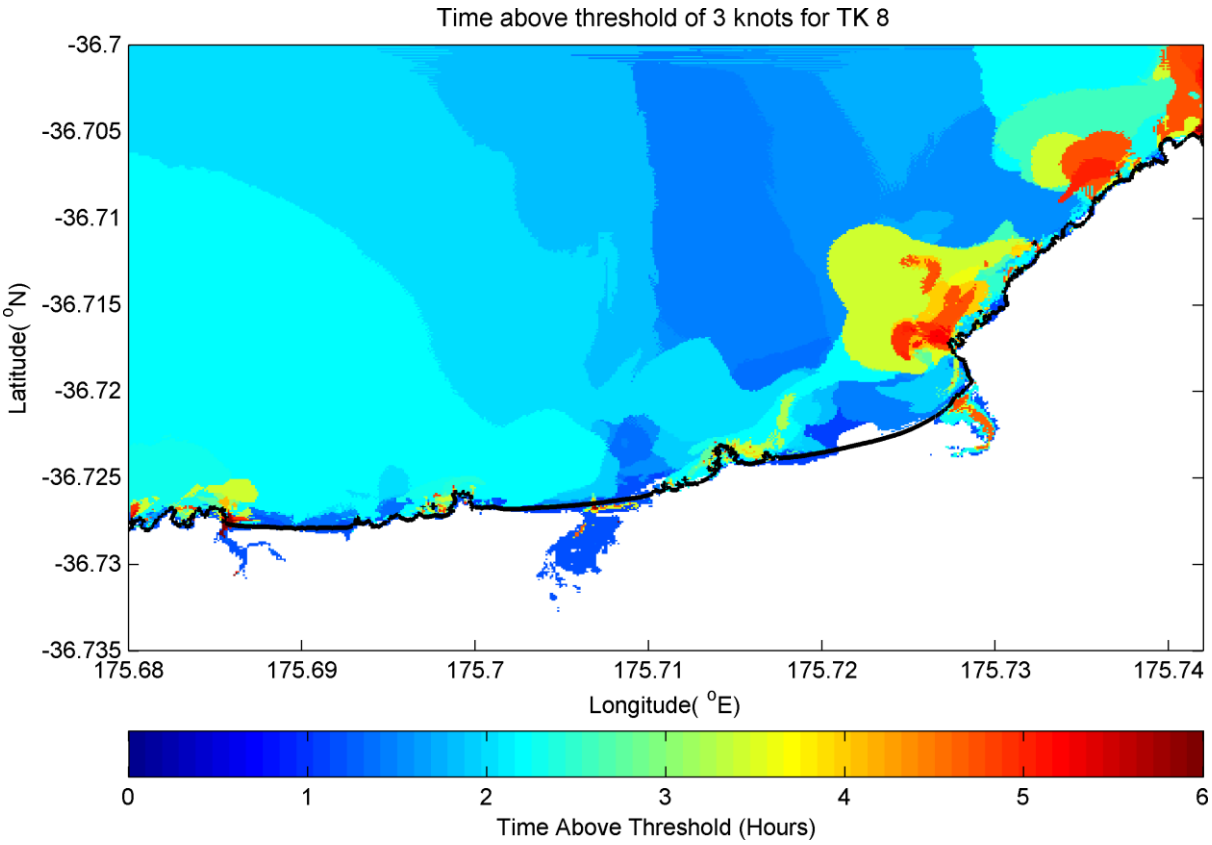

Time above threshold of 3 knots for TK 3
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
-36.735
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)


Time above threshold of 3 knots for TK 4
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
-36.735
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

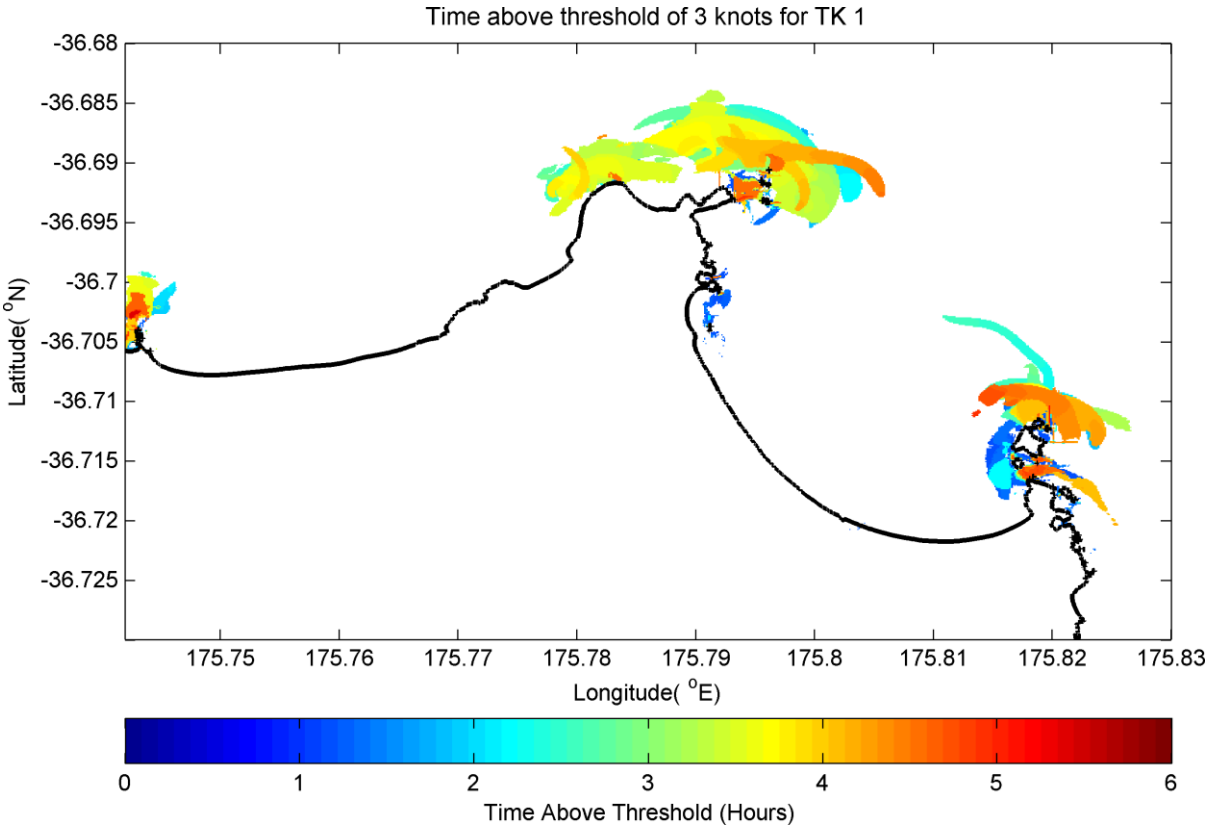

Time above threshold of 3 knots for TK 5
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
-36.735
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

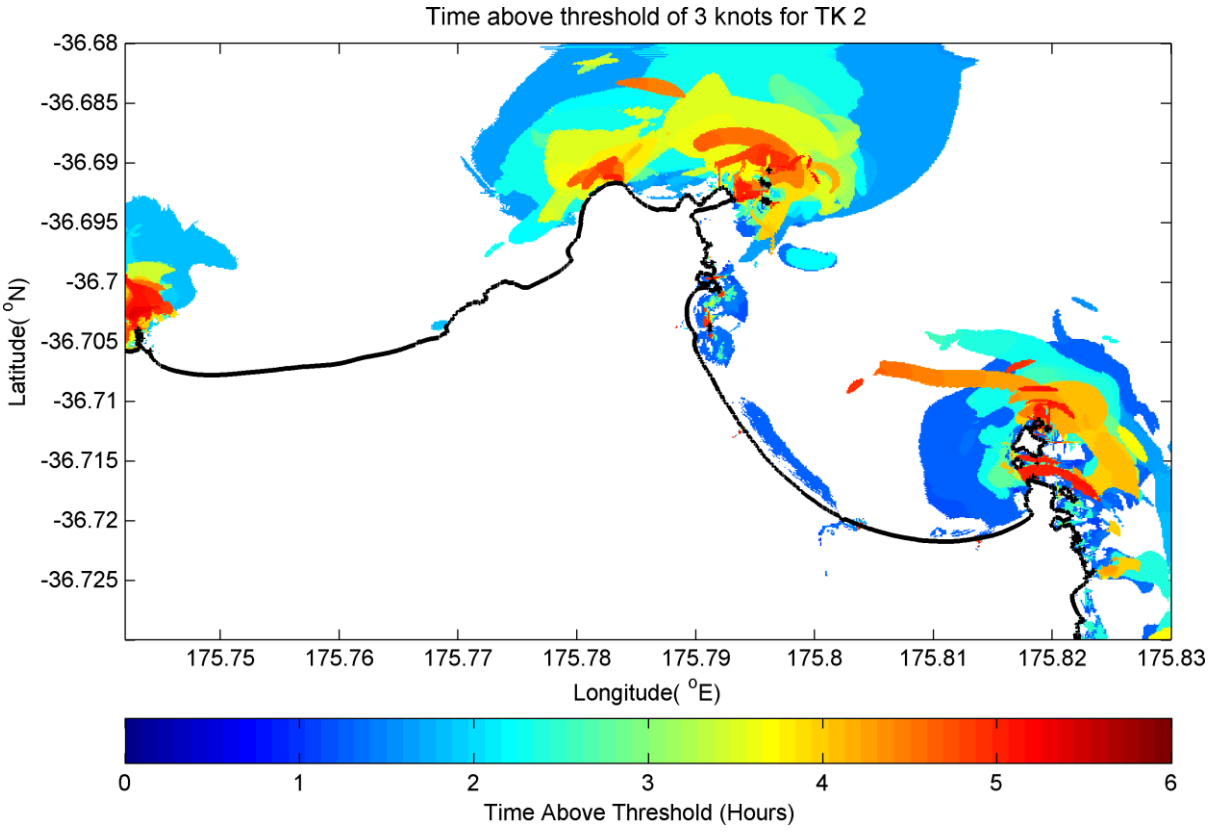

Time above threshold of 3 knots for TK 6
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
-36.735
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

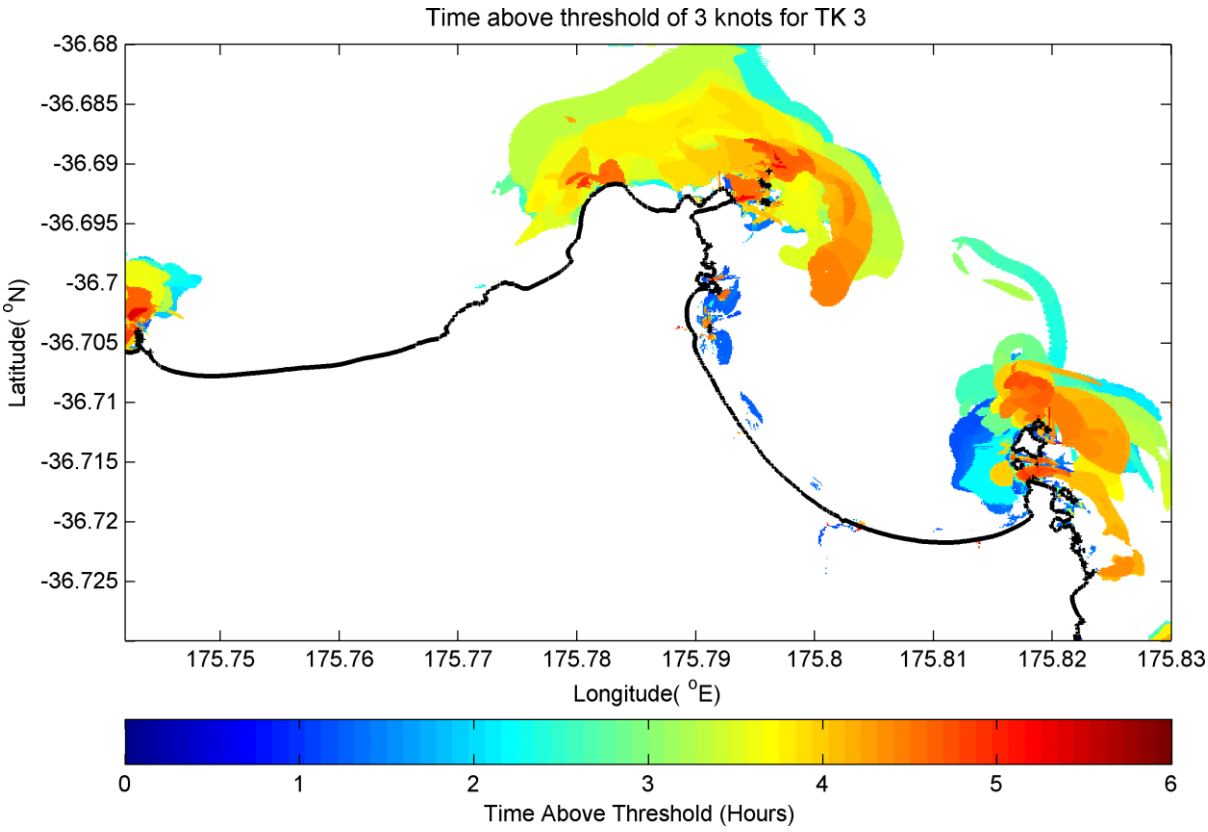

Time above threshold of 3 knots for TK 7
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
-36.735
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

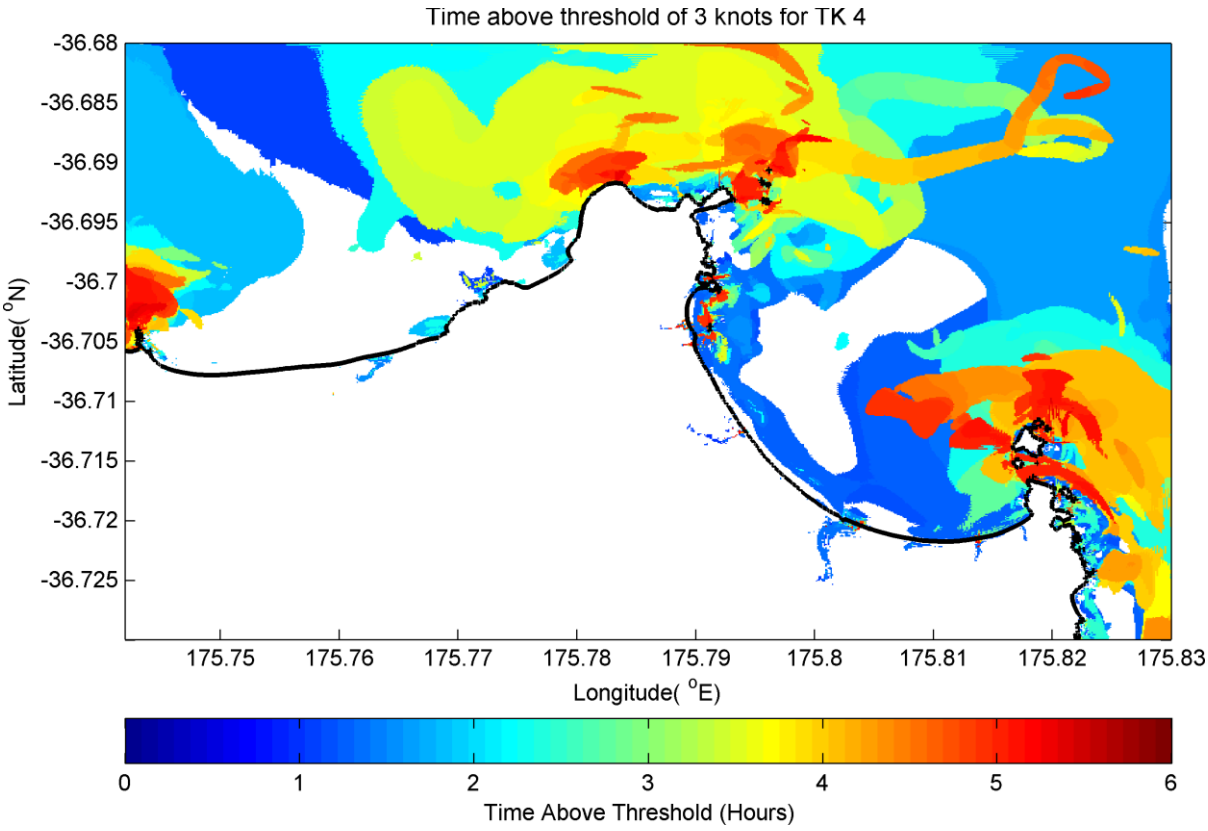

Time above threshold of 3 knots for TK 8
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
-36.735
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

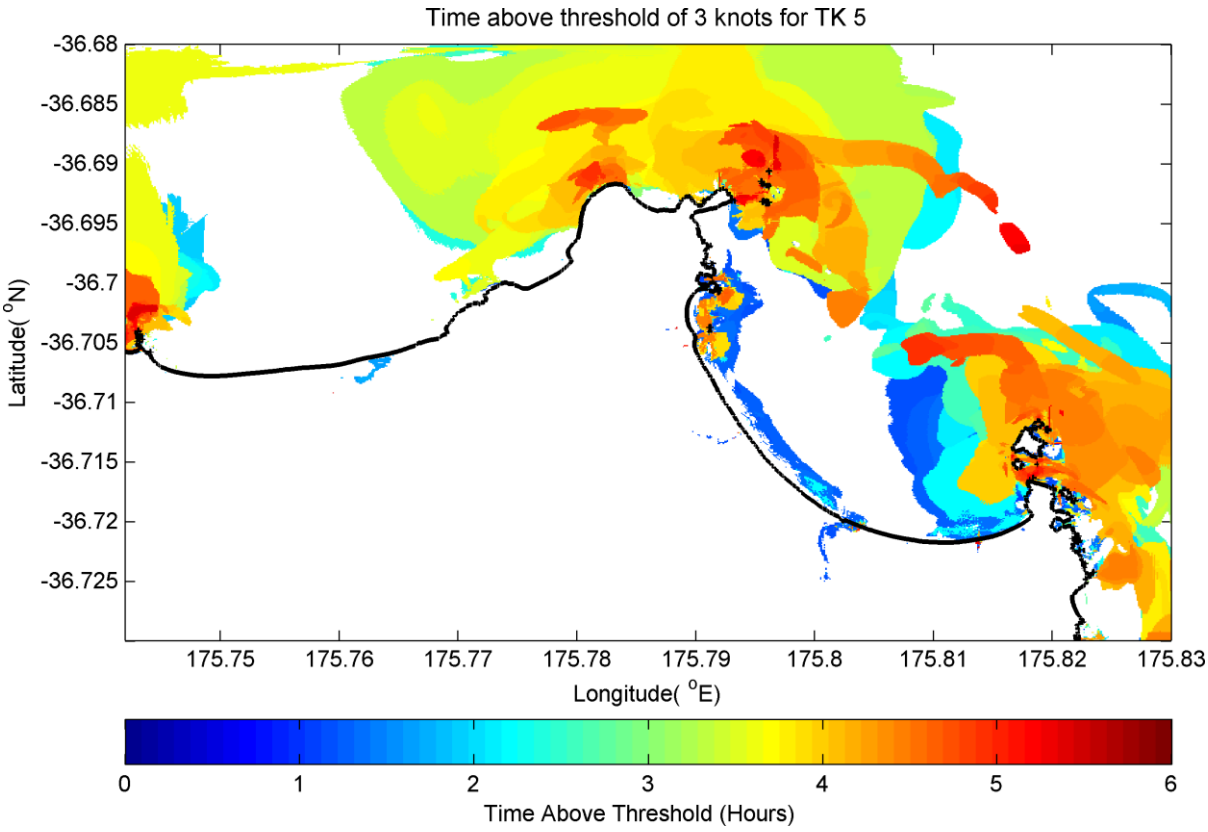
# 9 APPENDIX 9 – OPITO BAY: TK TRENCH CURRENT SPEED DURATION

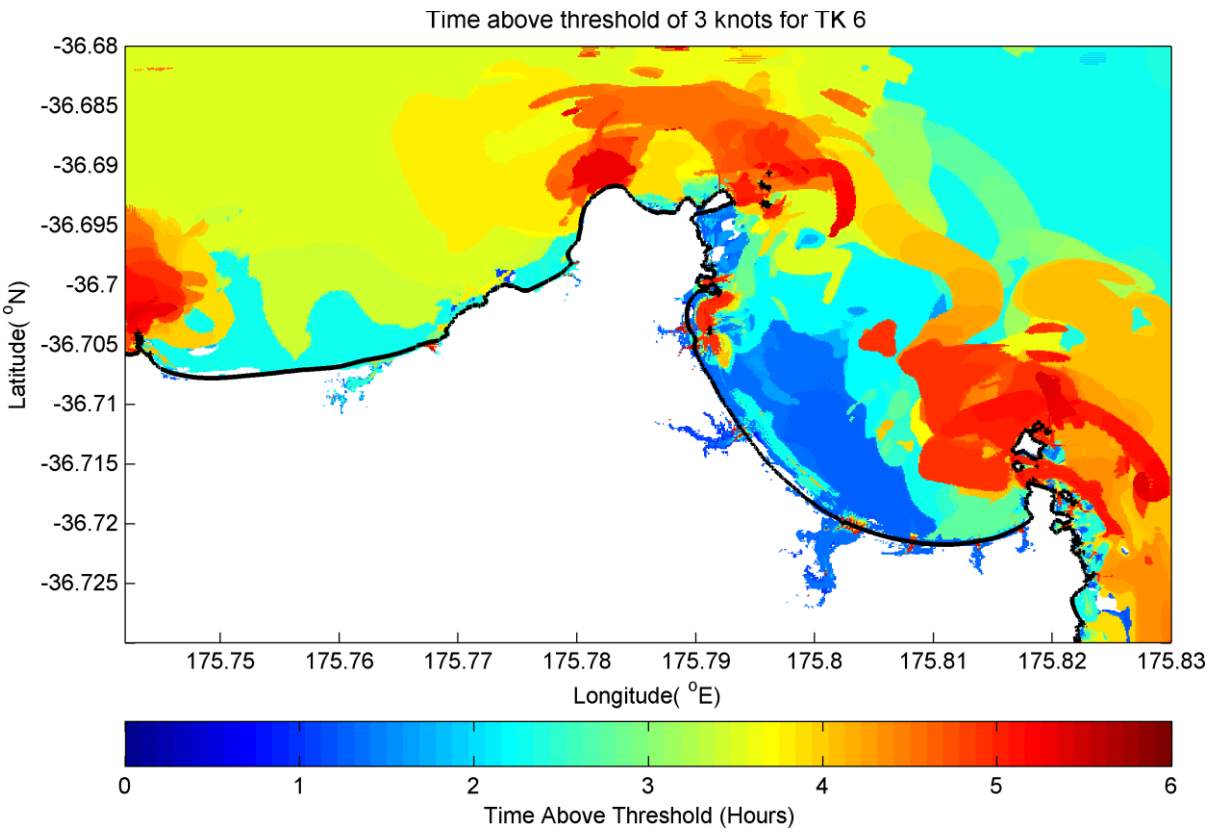


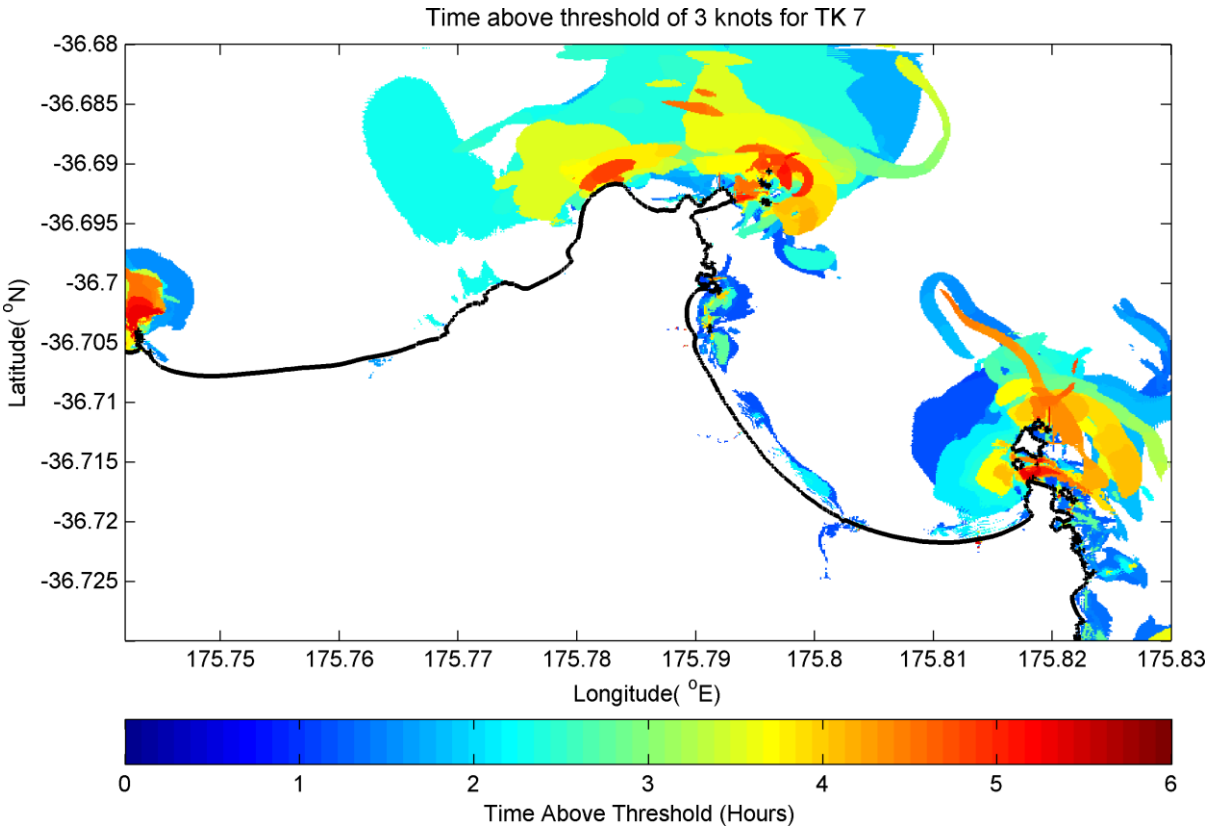



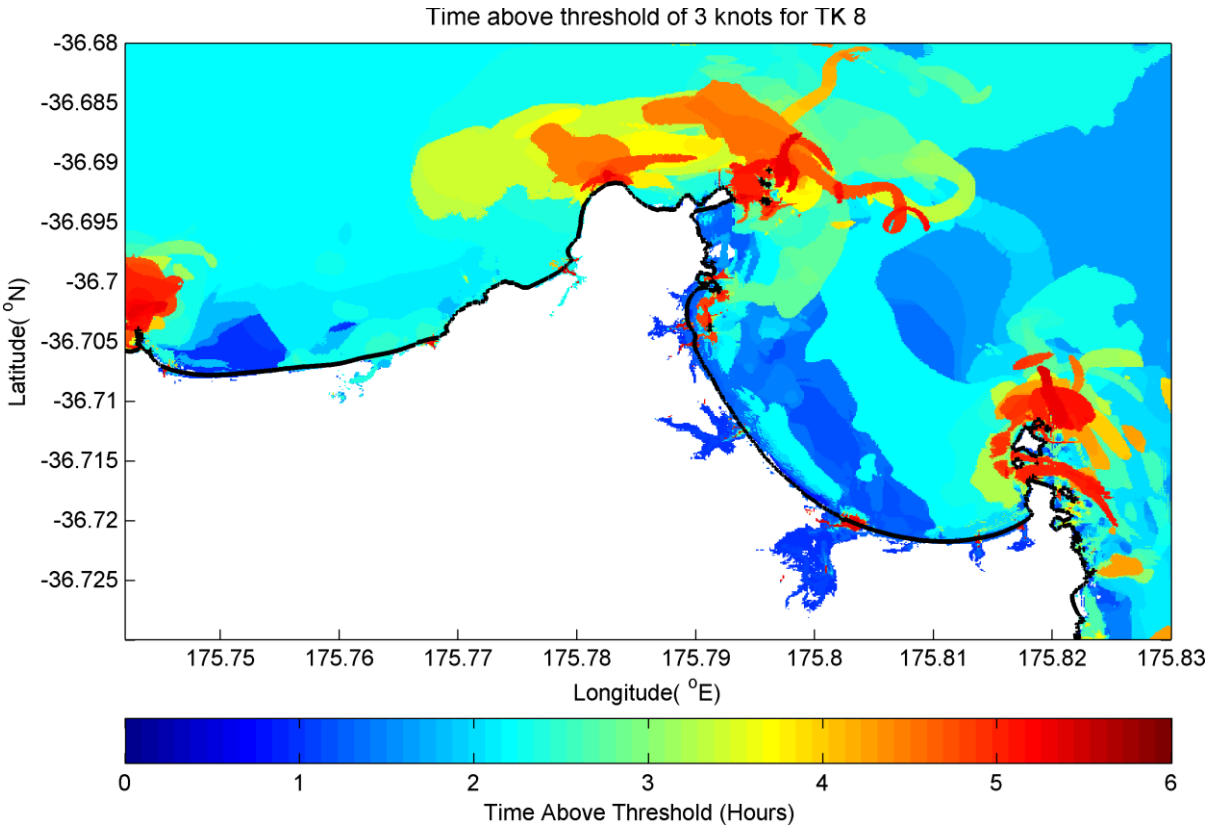

Time above threshold of 3 knots for TK 3
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)


Time above threshold of 3 knots for TK 4
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)


Time above threshold of 3 knots for TK 5
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)


Time above threshold of 3 knots for TK 6
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

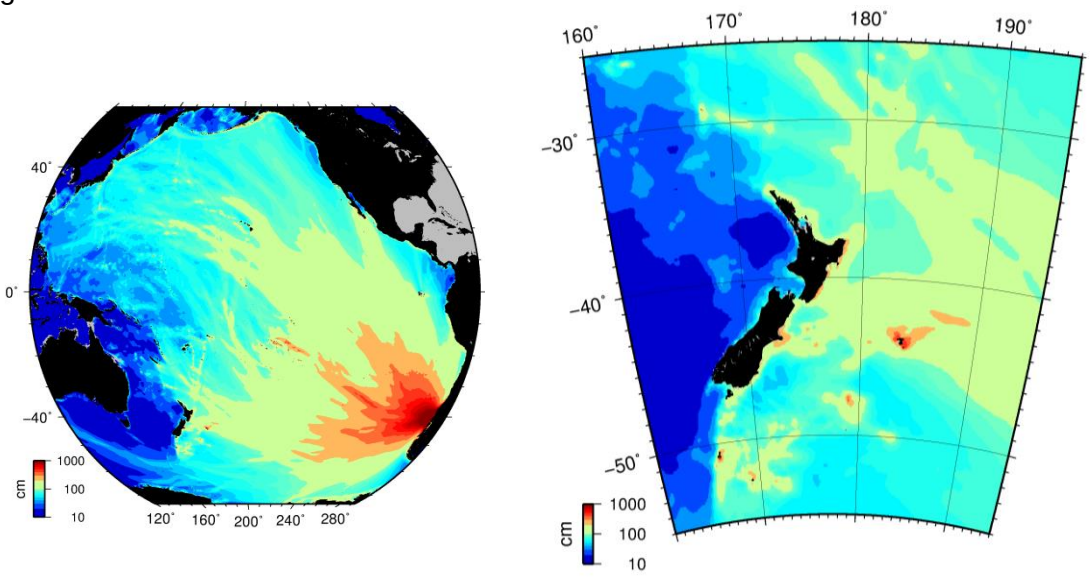

Time above threshold of 3 knots for TK 7
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)


Time above threshold of 3 knots for TK 8
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
1
2
3
4
5
6
Time Above Threshold (Hours)

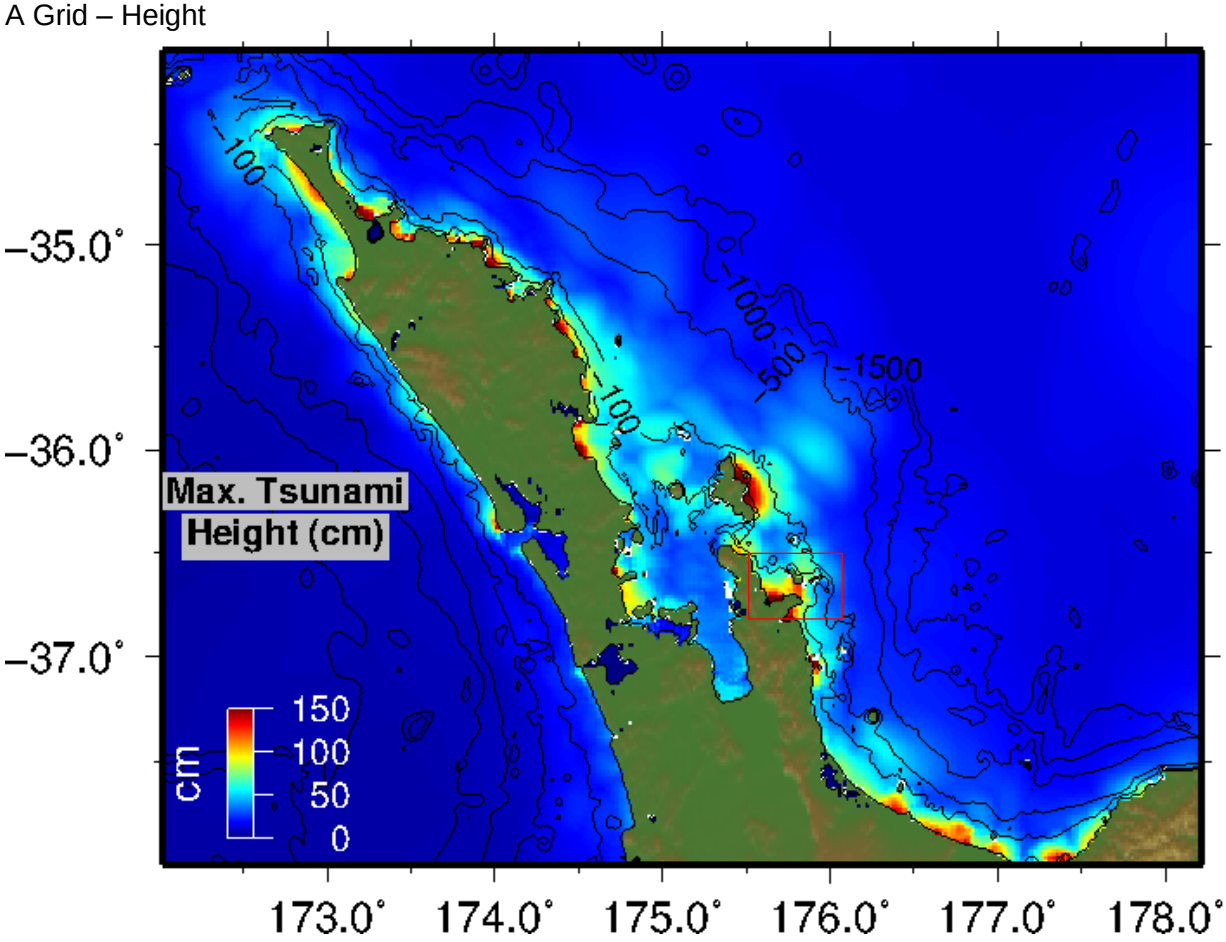
# 10 APPENDIX 10 – KENNEDY BAY: DISTANT SOURCE TSUNAMI

## *10.1 Valdivia, Chile 1960*

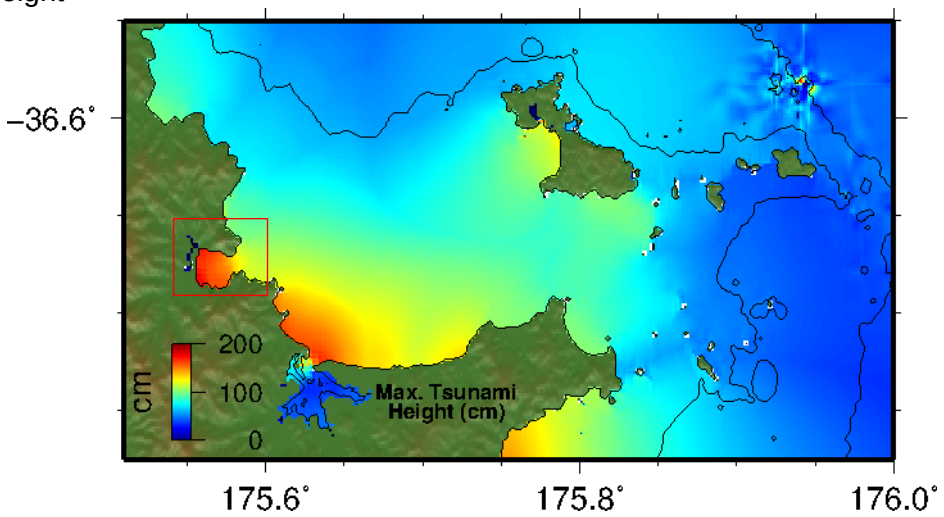
Propagation Model



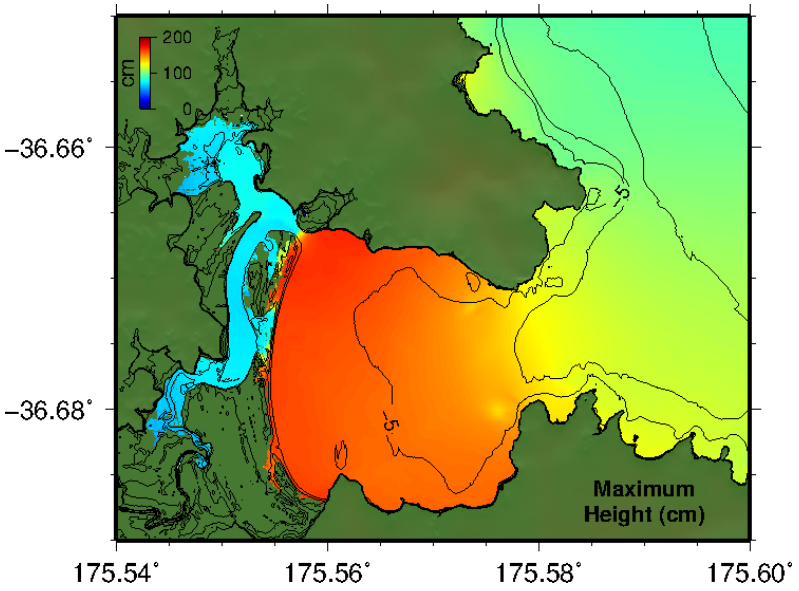

A Grid – Height



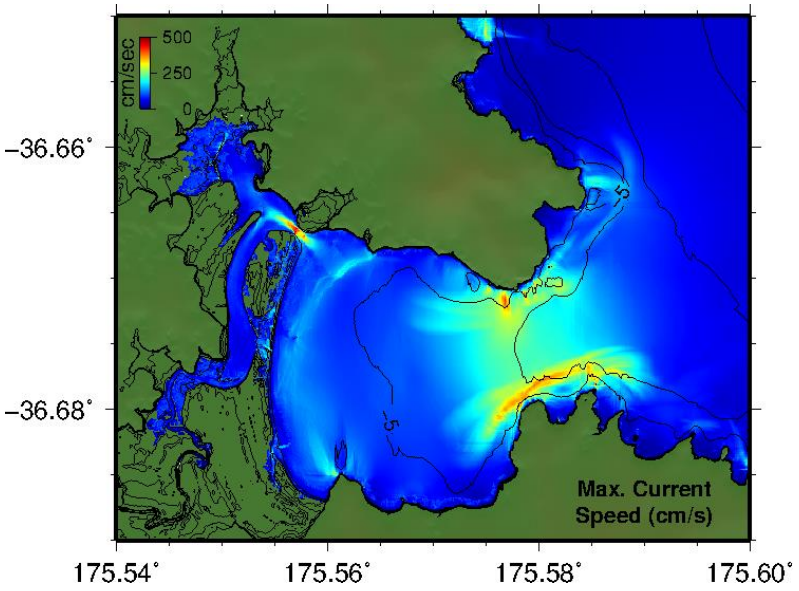
B Grid - Height




C Grid – Height

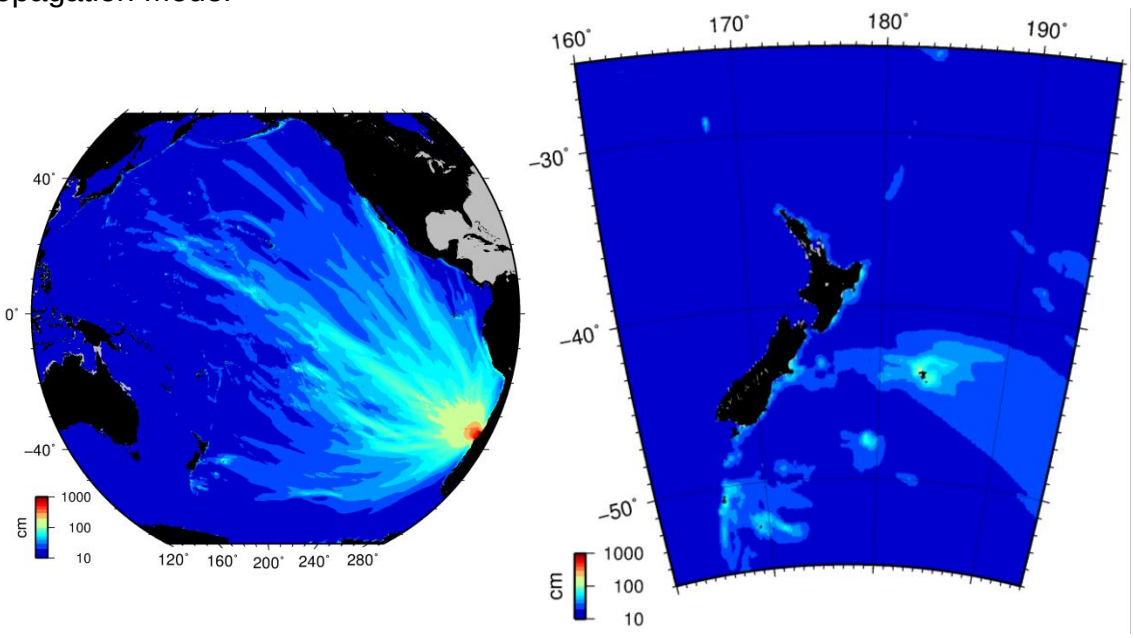



Current Speed

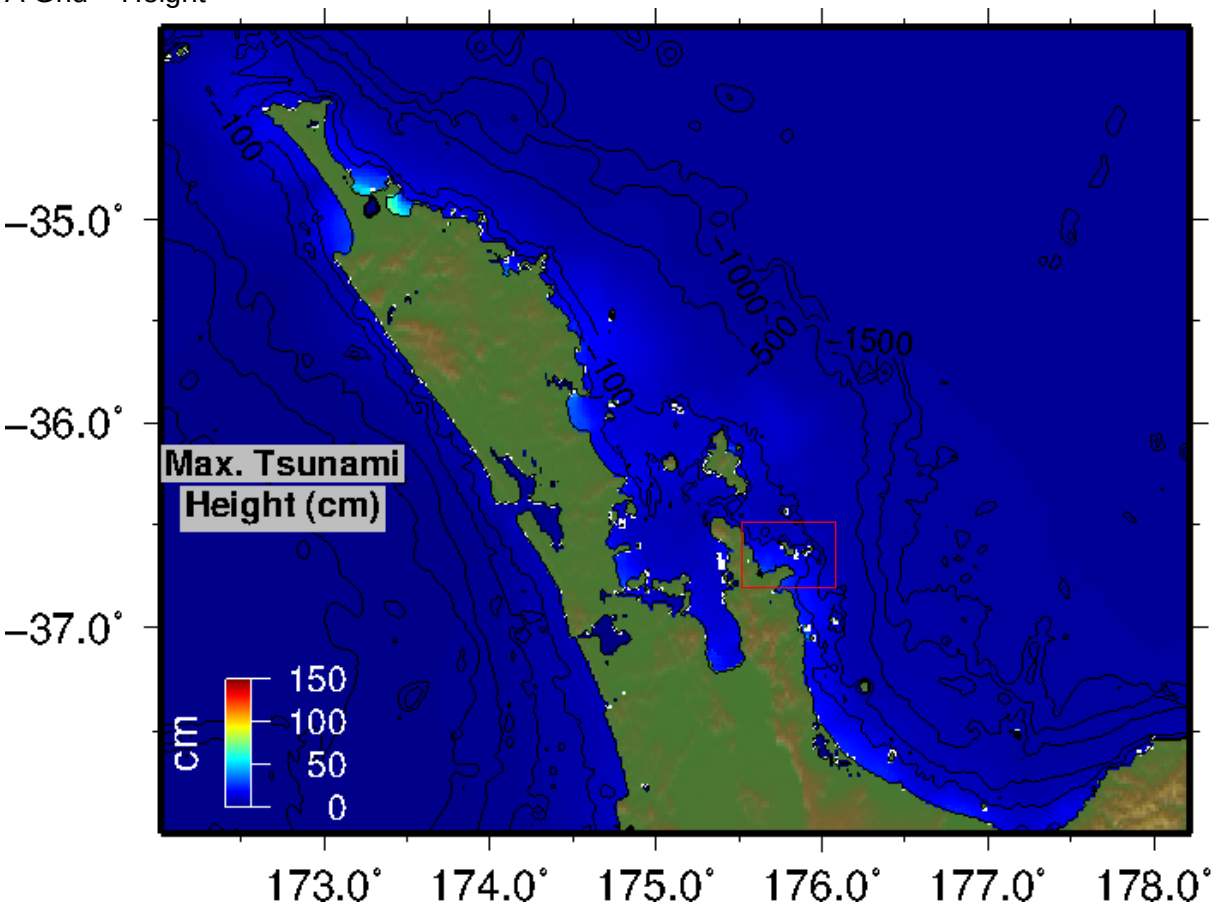


### *10.2 Maule, Chile 2010*

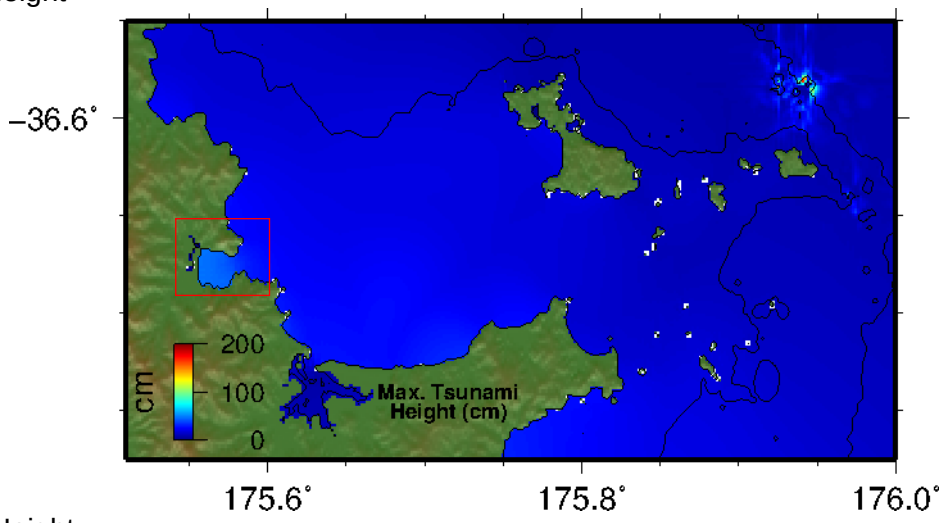
Propagation Model



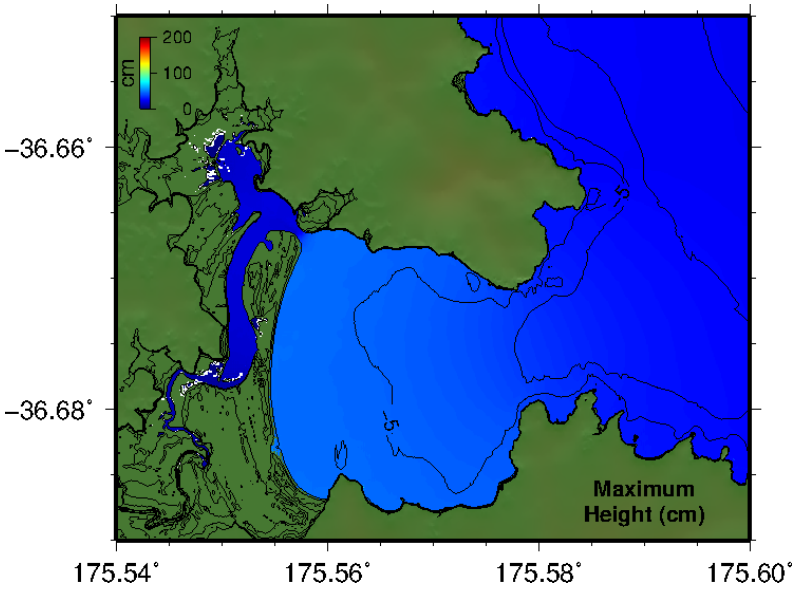

A Grid – Height



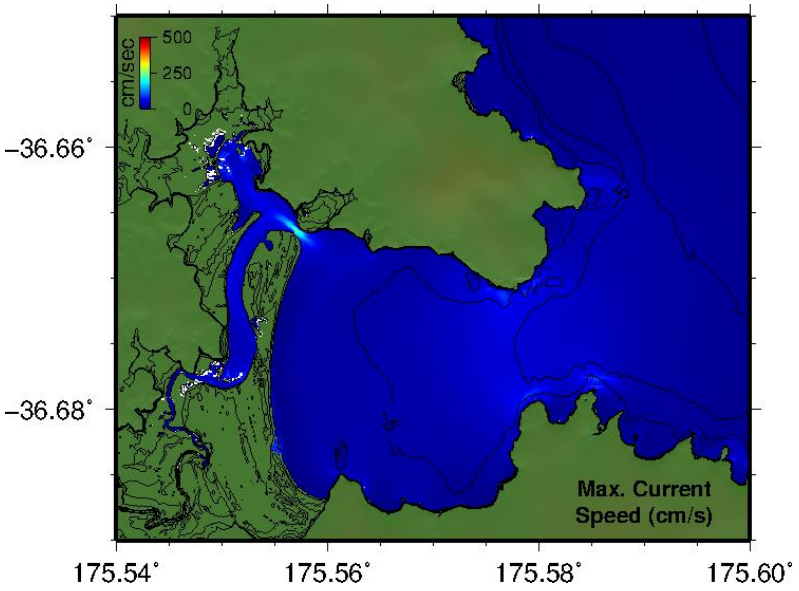
B Grid - Height




C Grid – Height

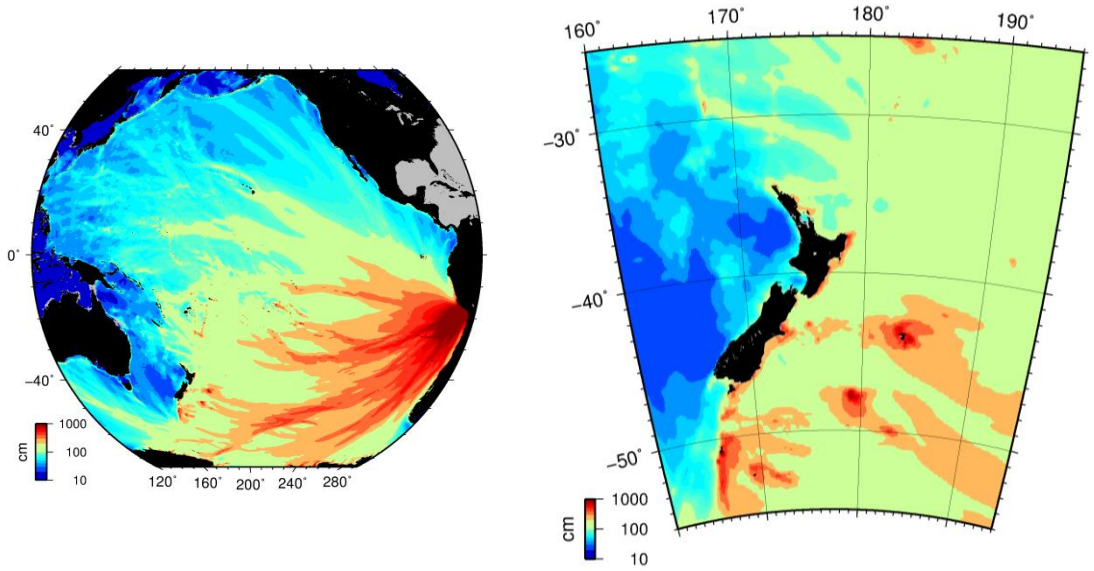



Current Speed

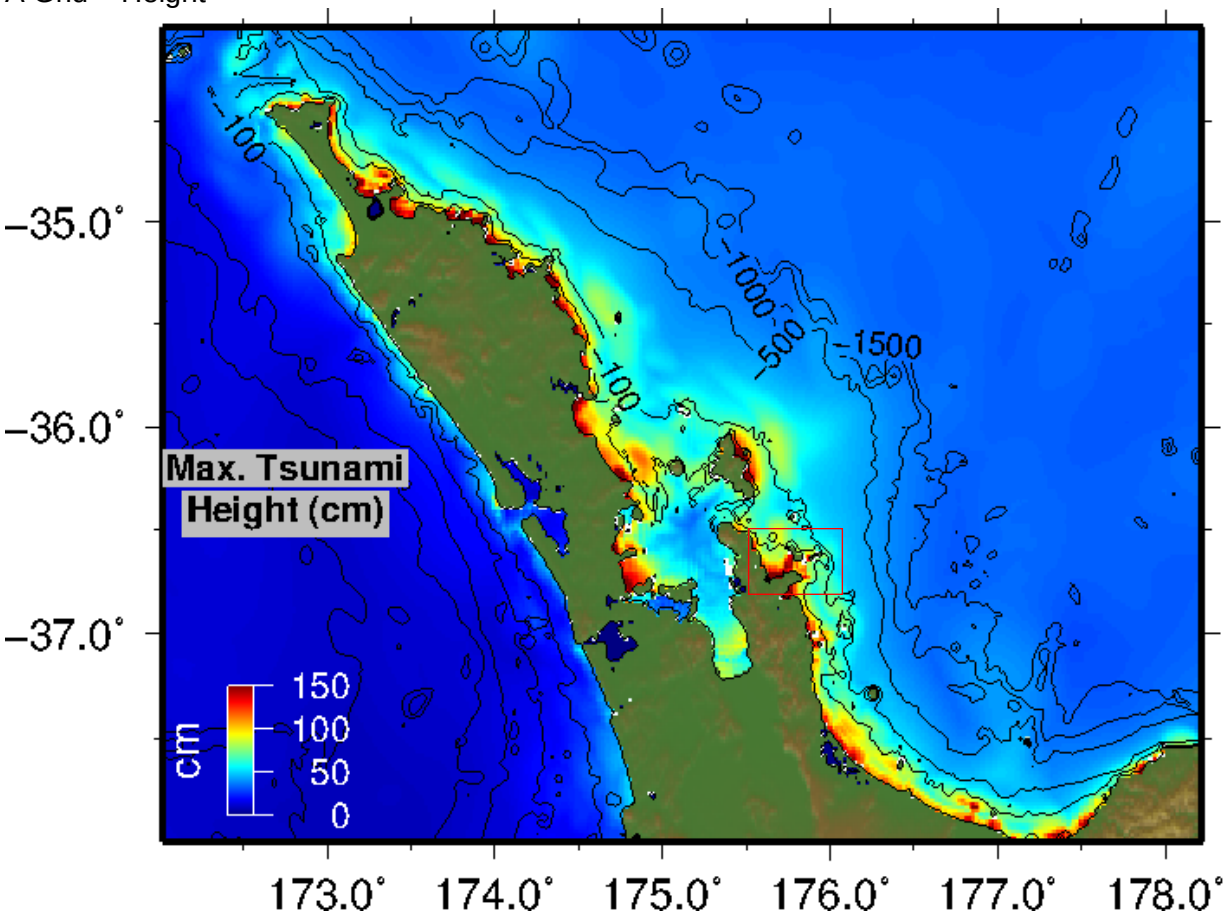


### *10.3 Arica, 1868*

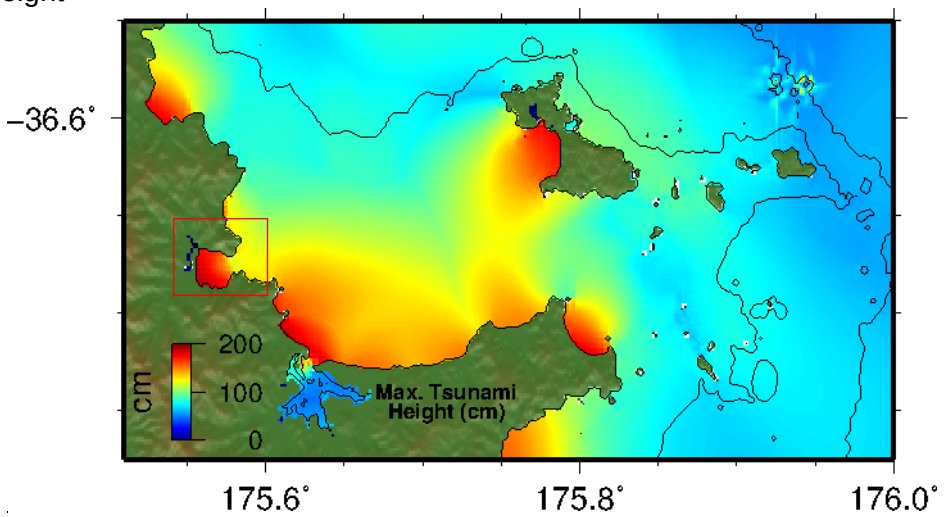
Propagation Model



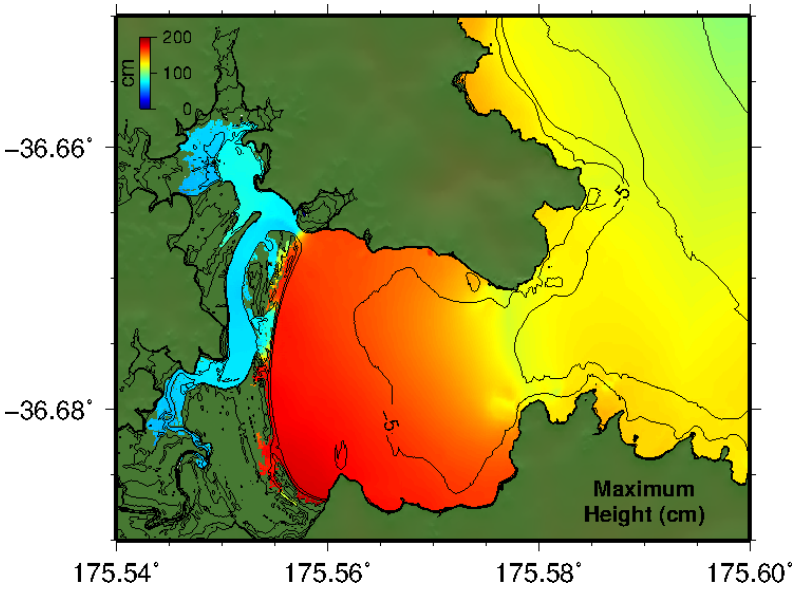

A Grid – Height



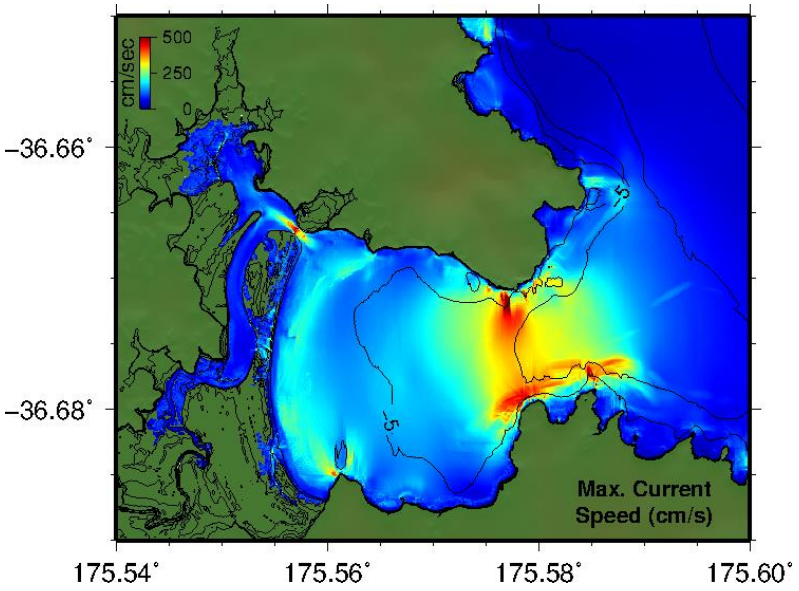
B Grid - Height




C Grid – Height

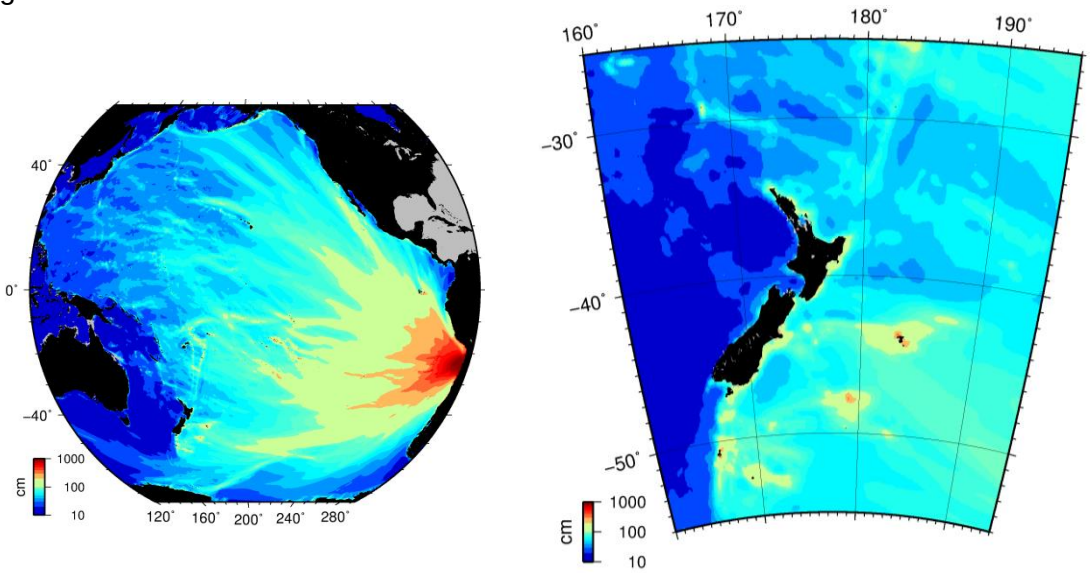



Current Speed

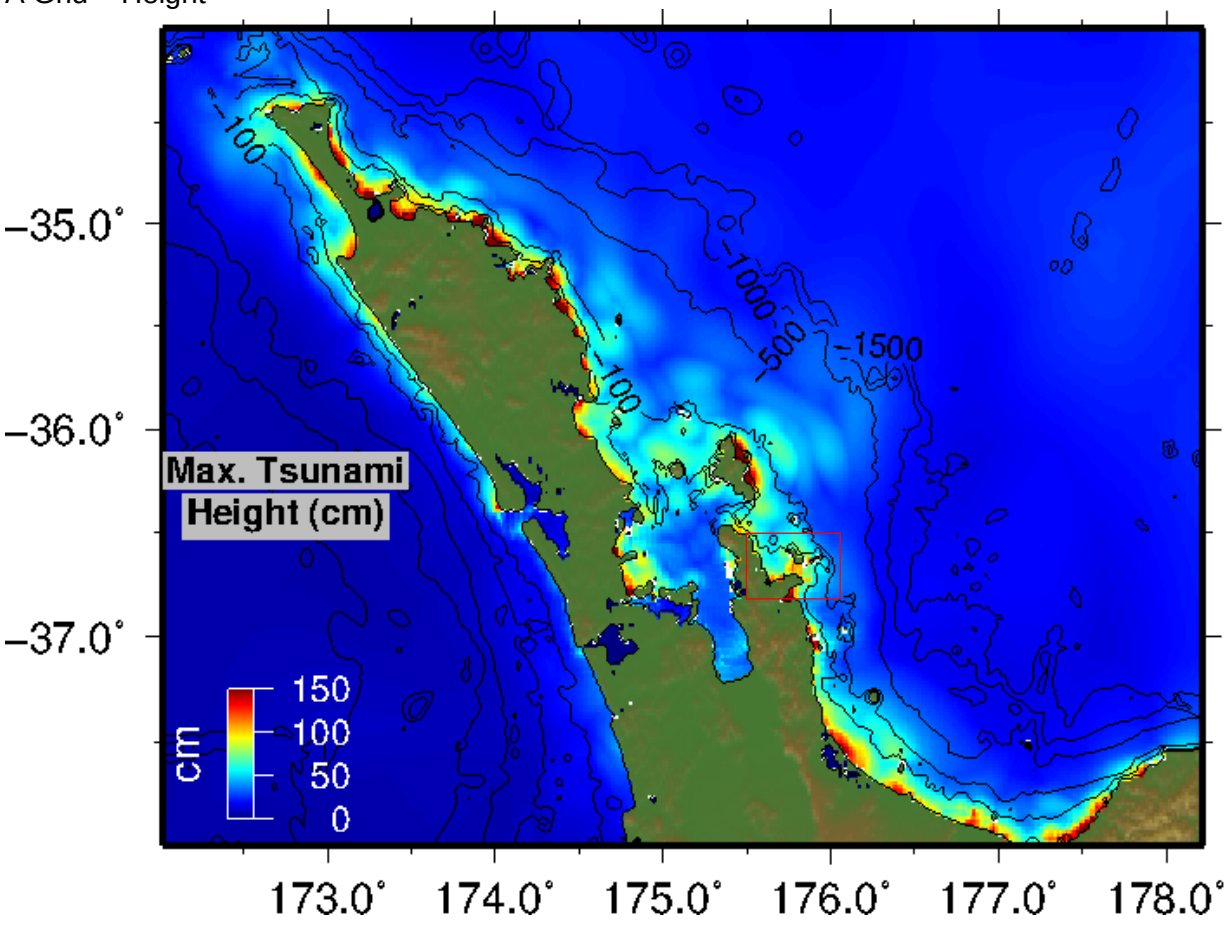


### *10.4 Chile North 1*

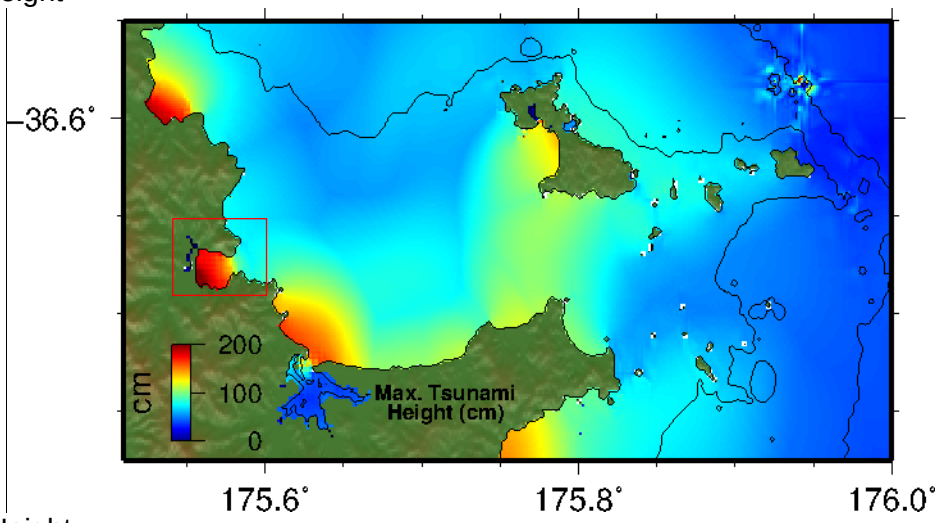
Propagation Model



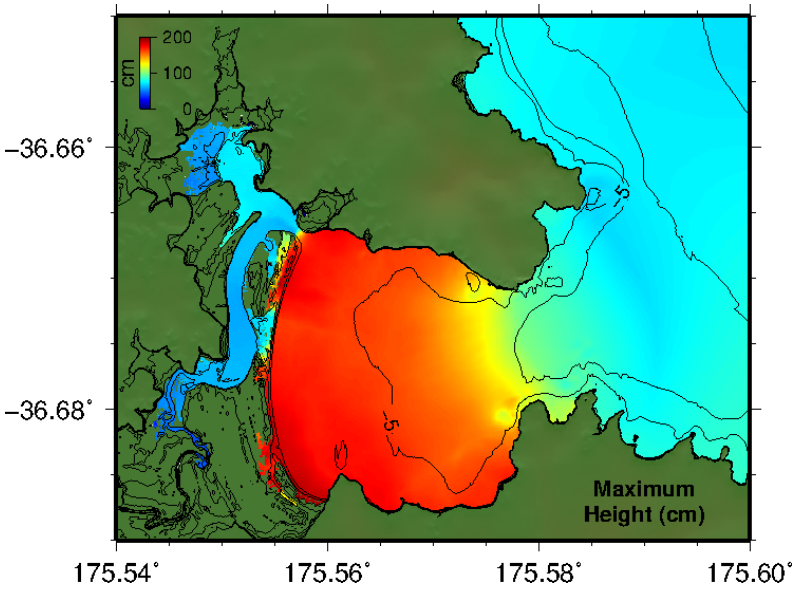

A Grid – Height



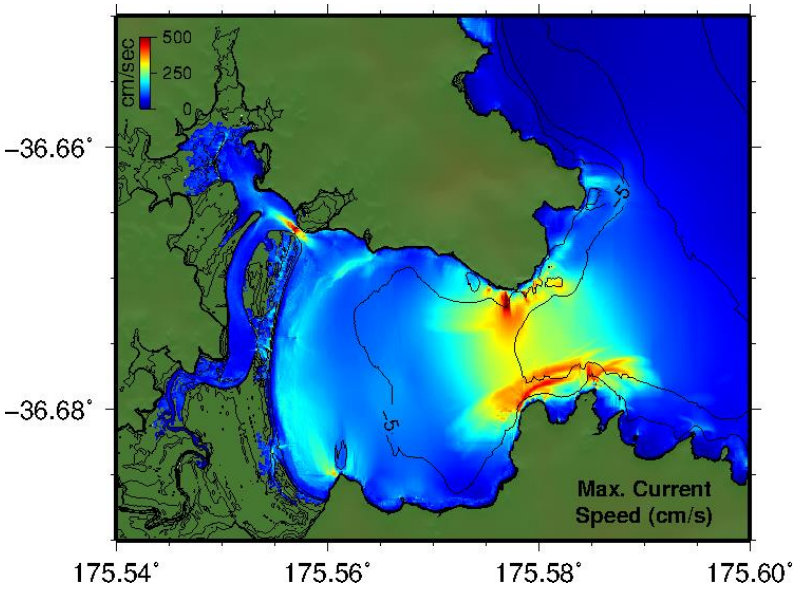
B Grid - Height




C Grid – Height

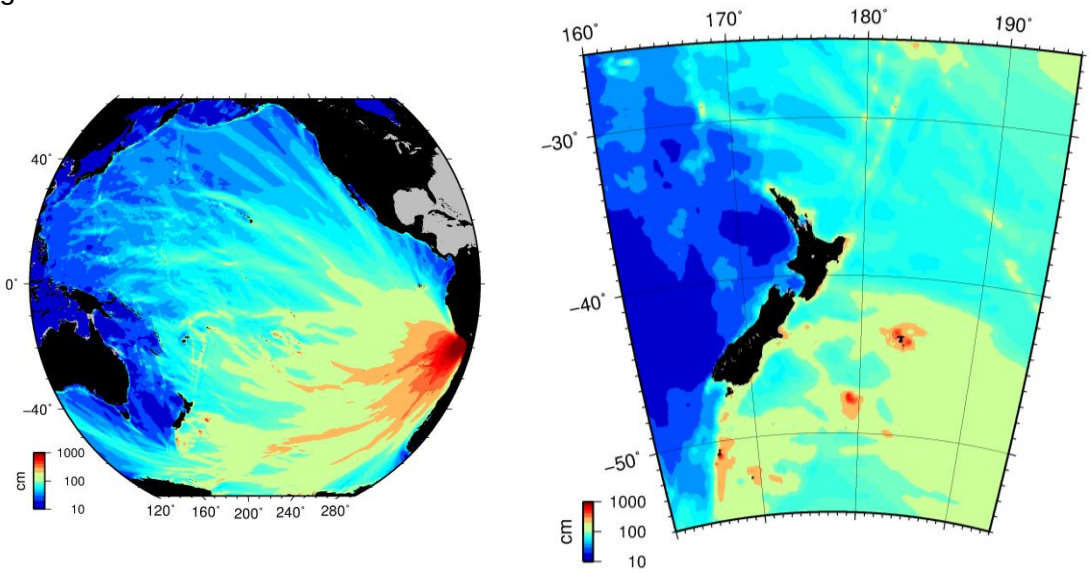



Current Speed

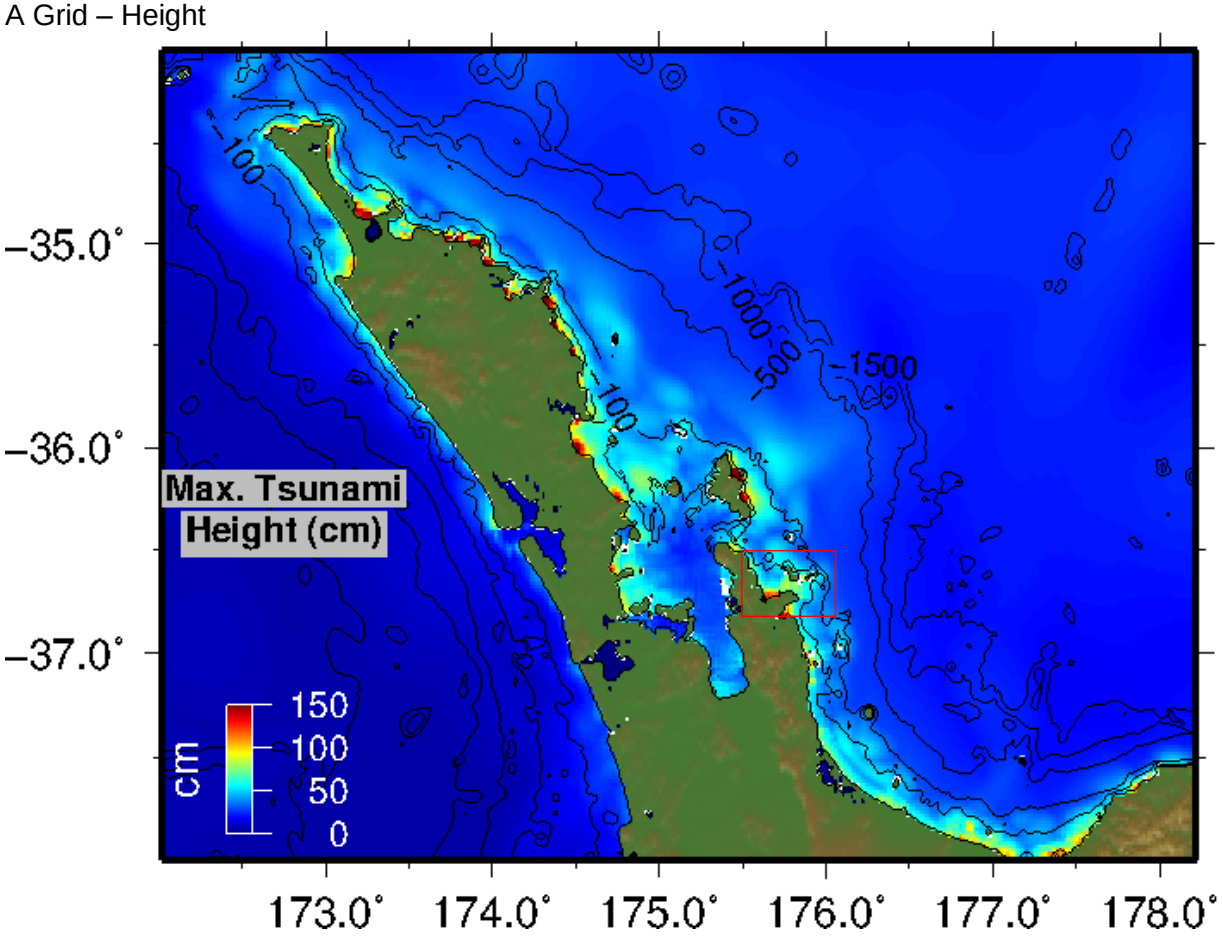


### *10.5 Chile North 2*

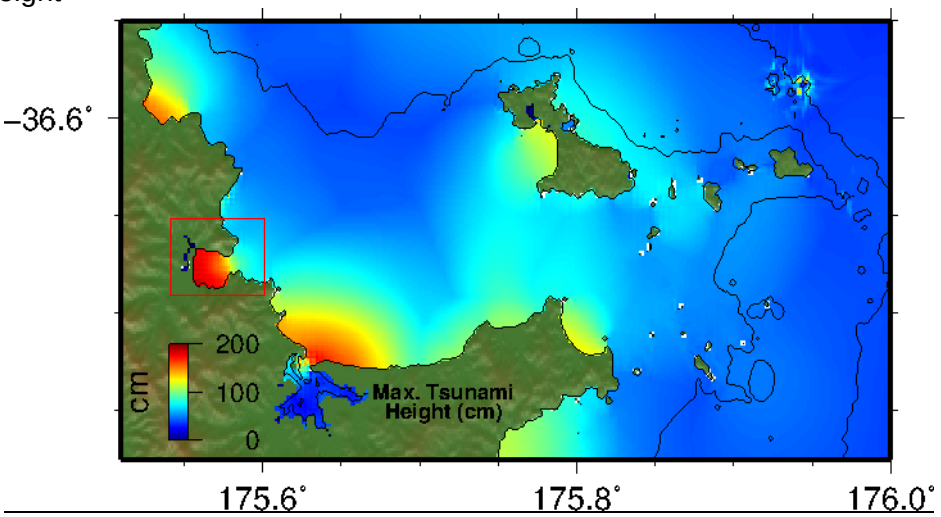
Propagation Model



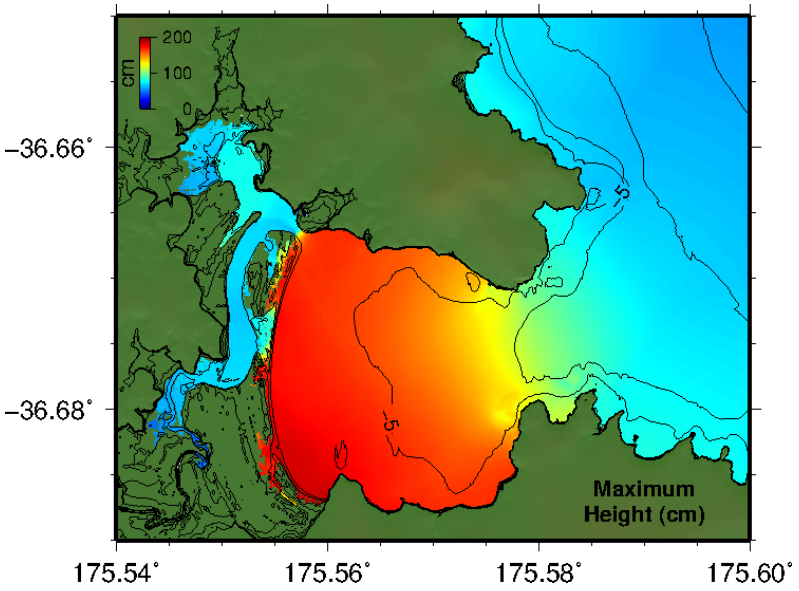

A Grid – Height



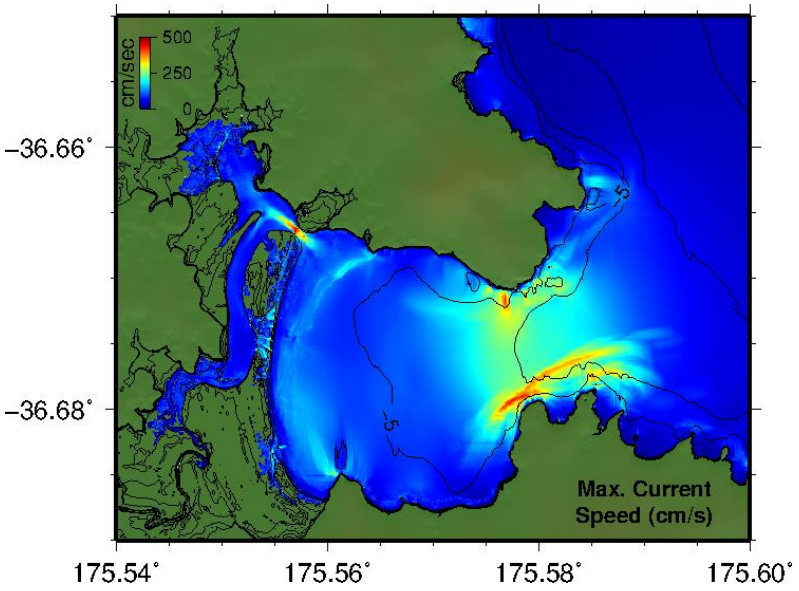
B Grid - Height




C Grid – Height

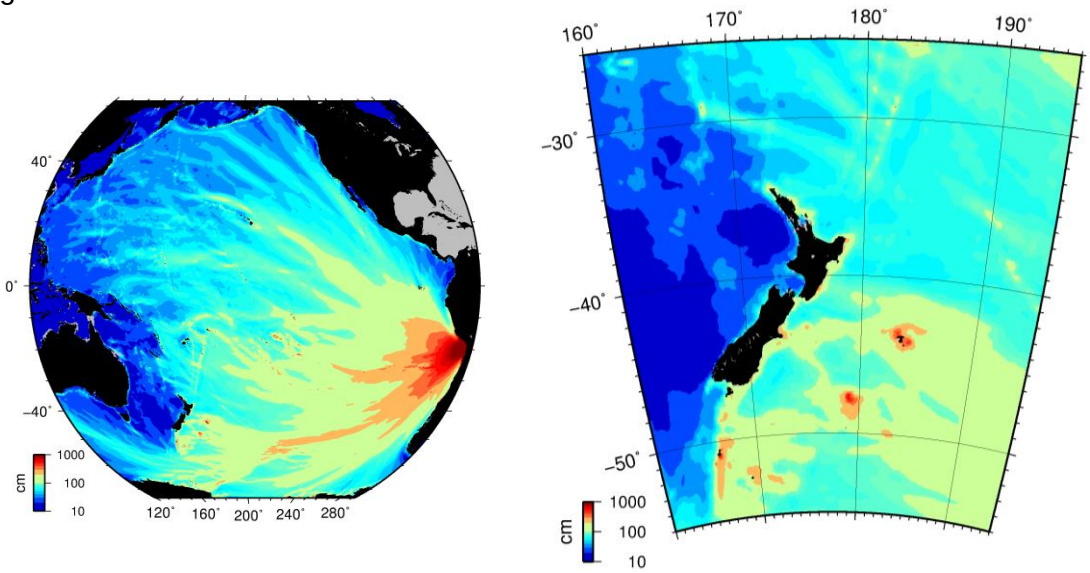



Current Speed

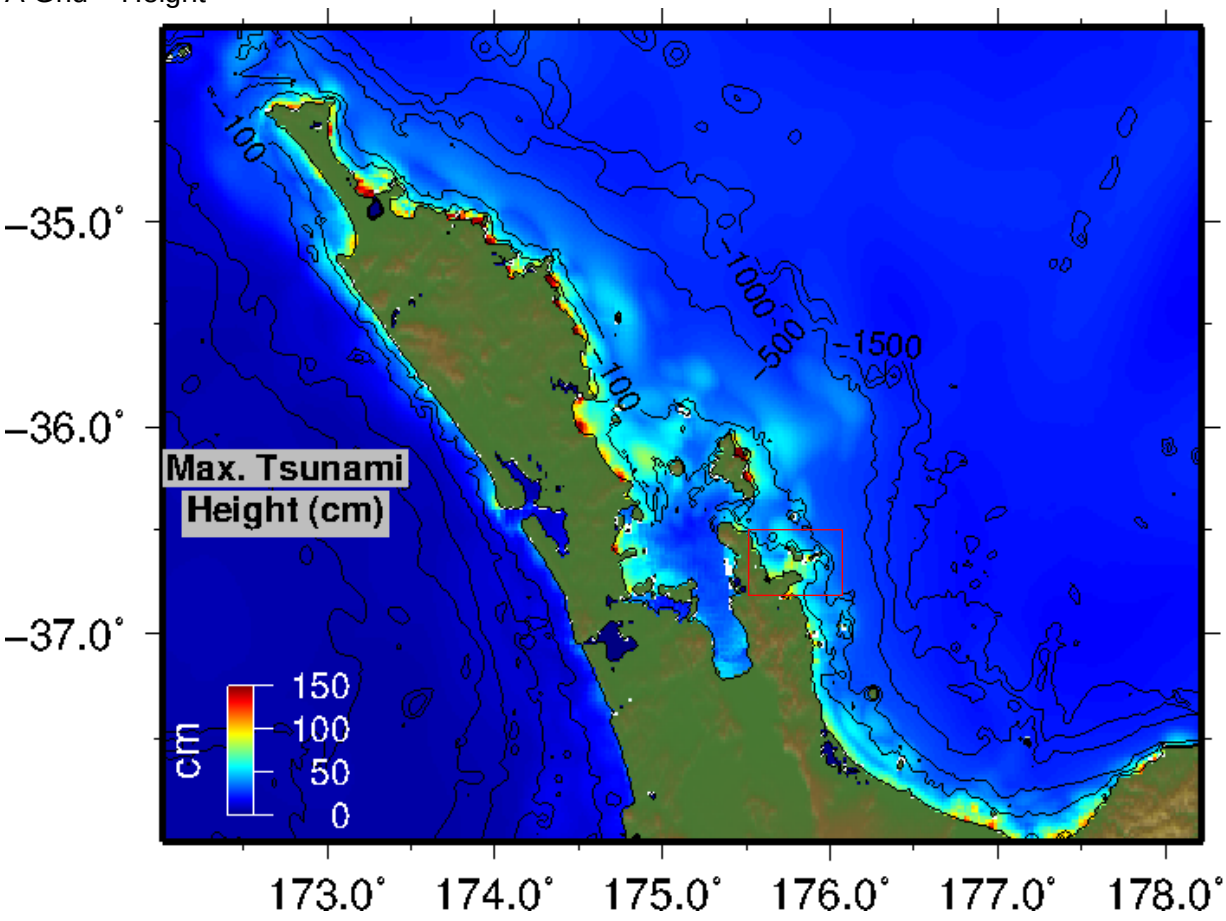


### *10.6 Chile North 3*

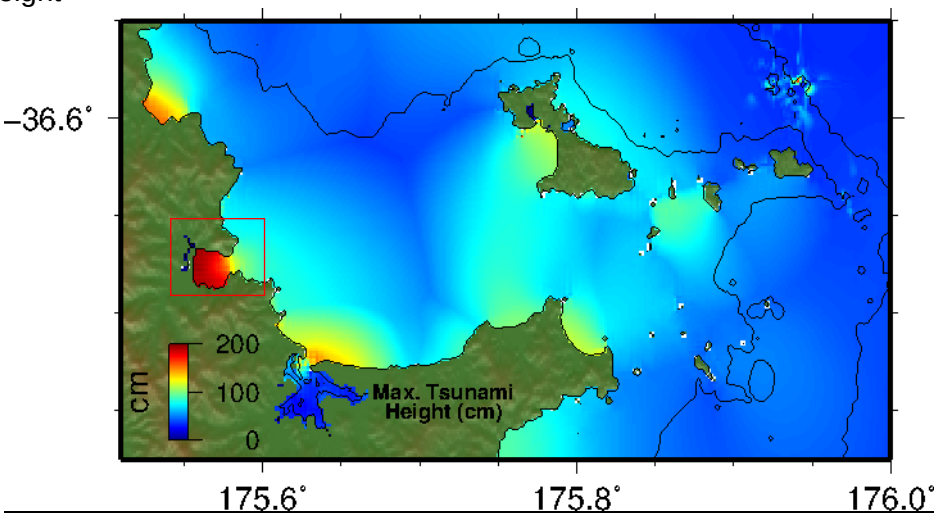
Propagation Model



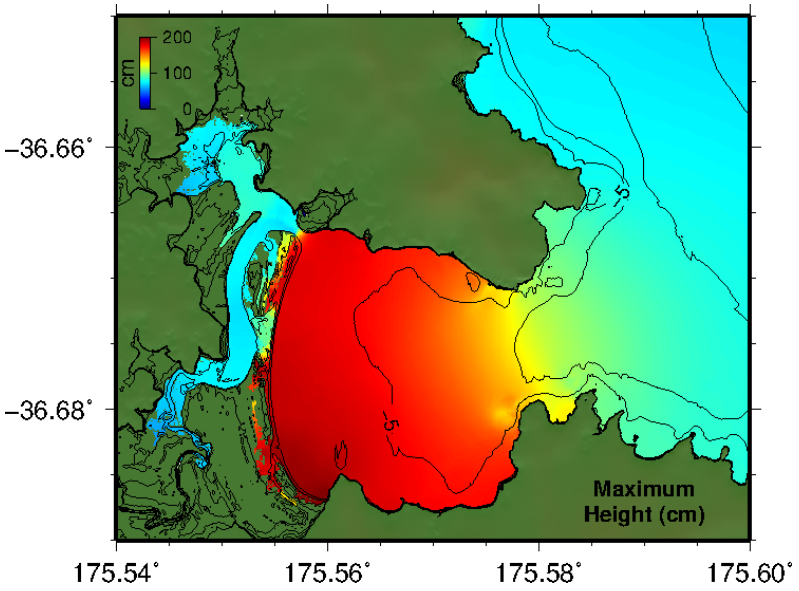

A Grid – Height



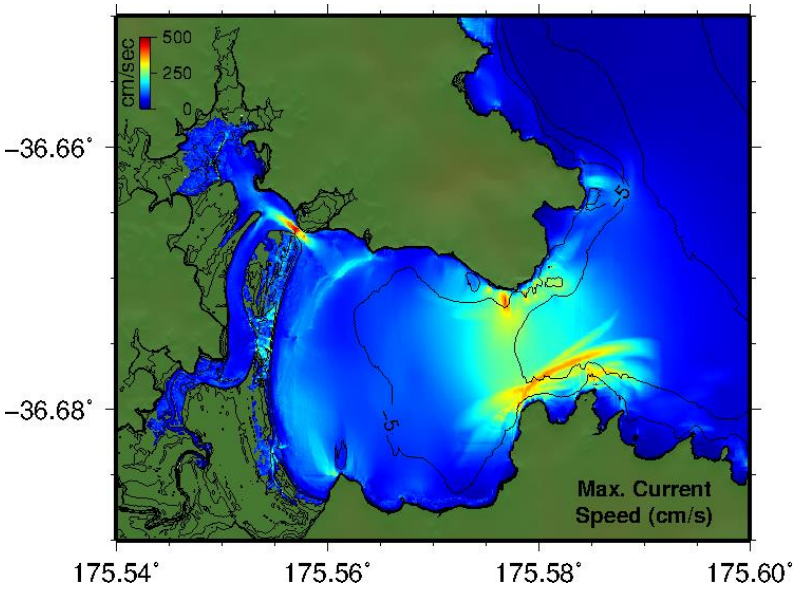
B Grid - Height




C Grid – Height

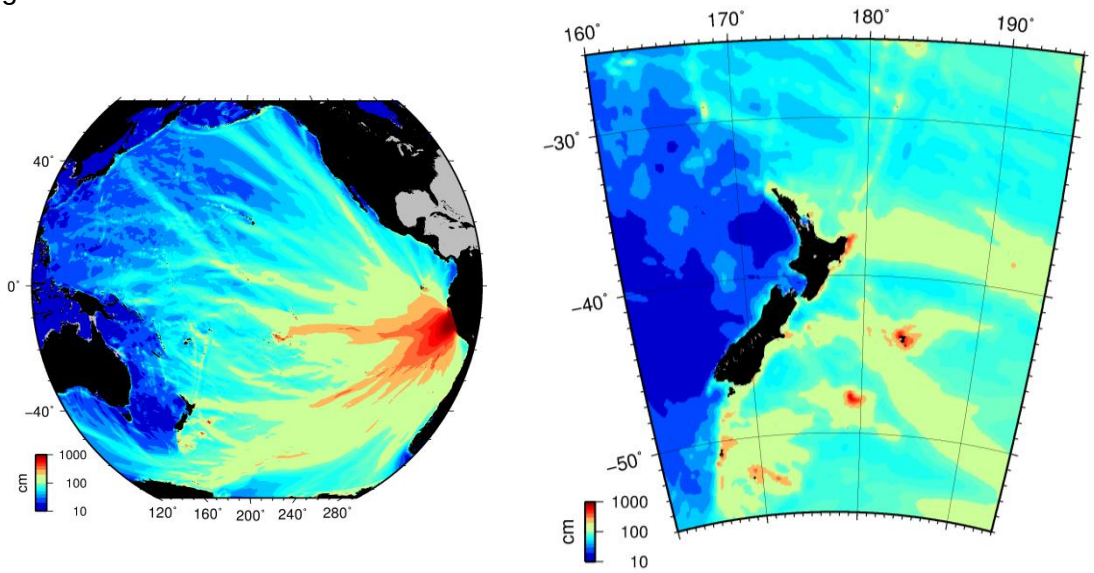



Current Speed

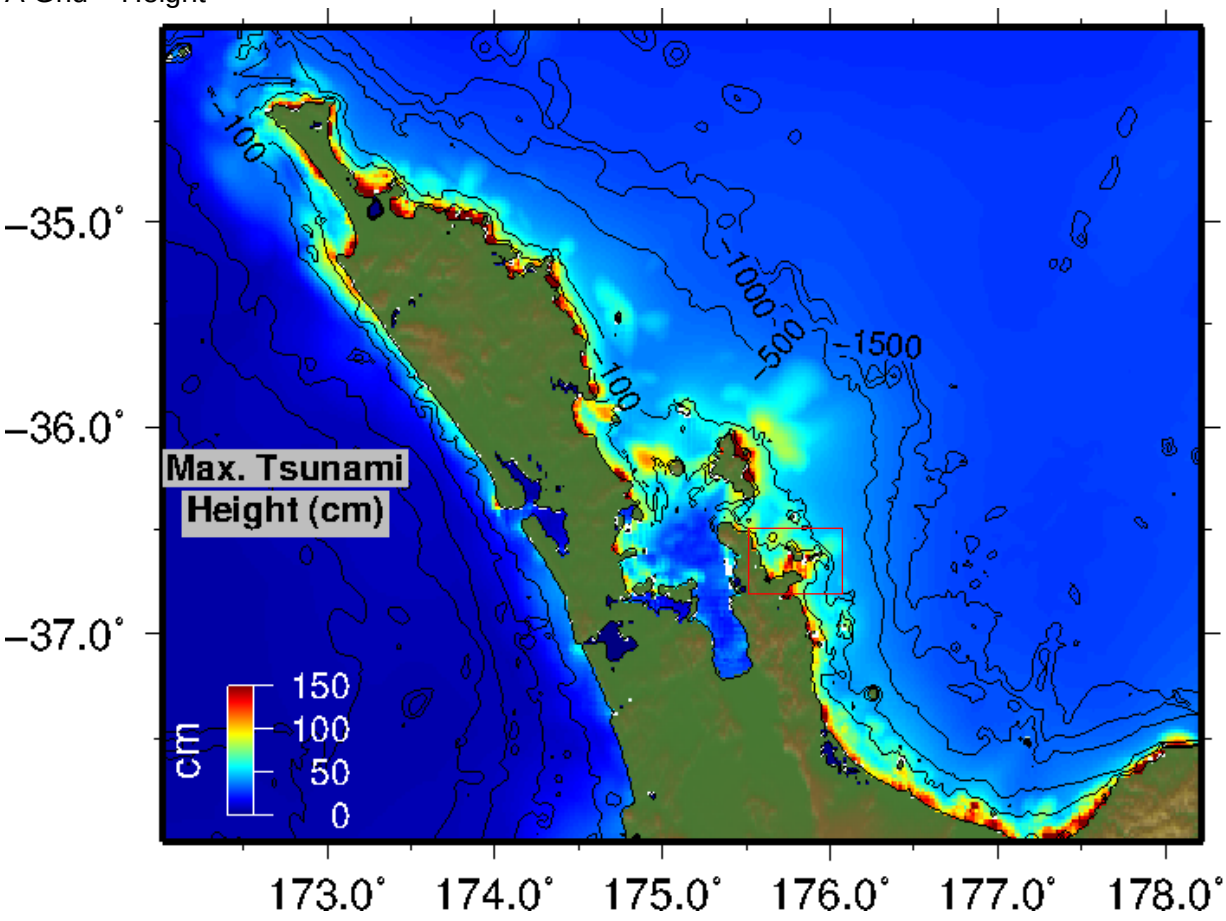


## *10.7 Central Peru*

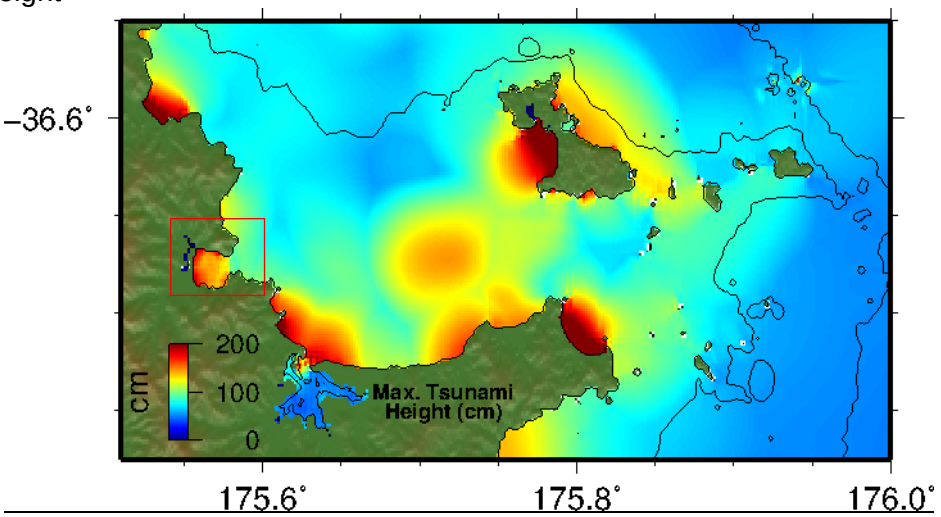
Propagation Model



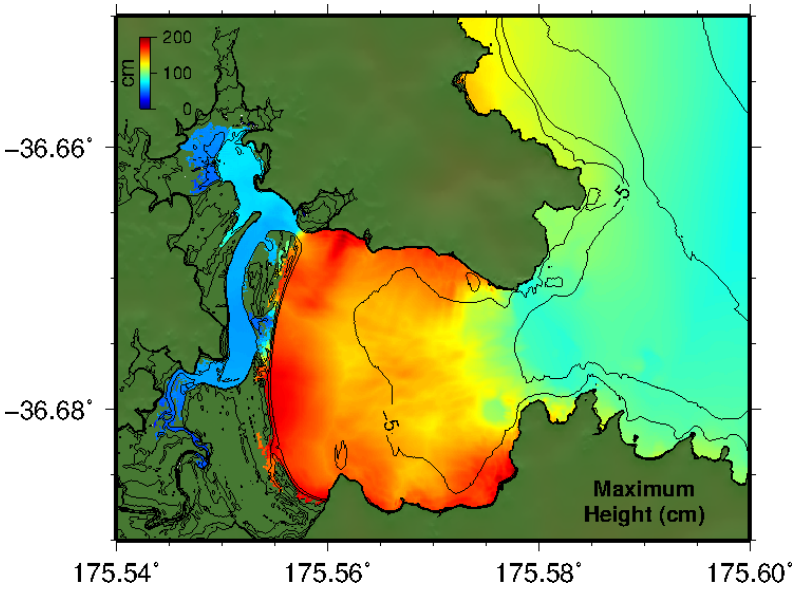

A Grid – Height



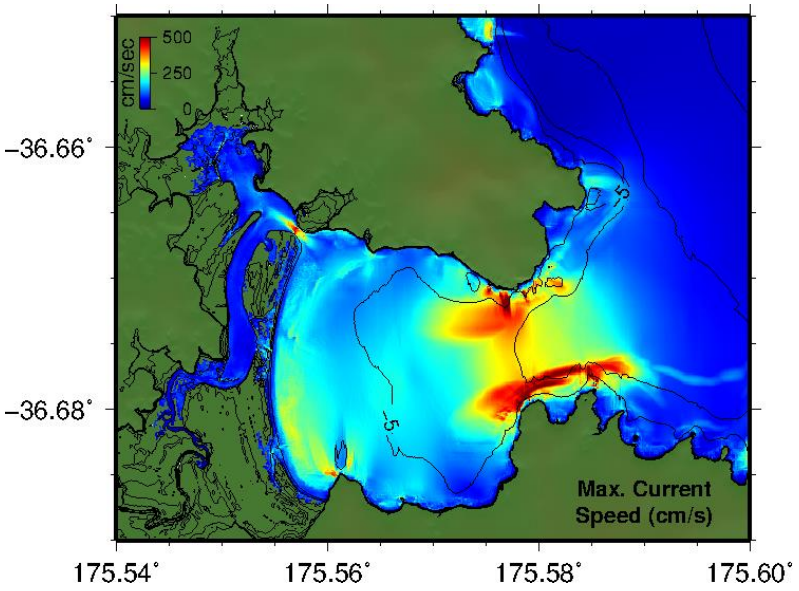
B Grid - Height




C Grid – Height



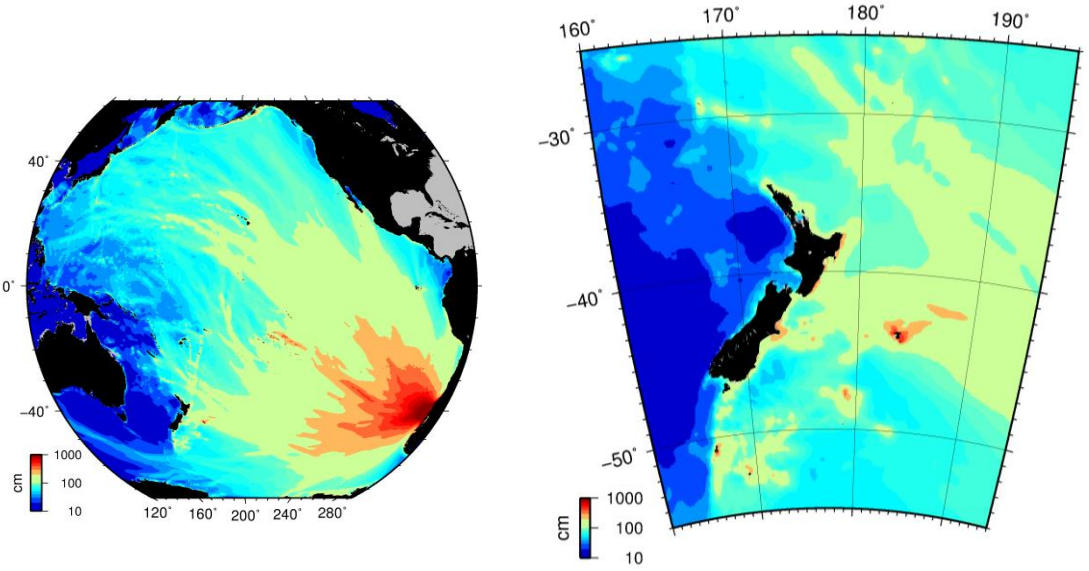

Current Speed



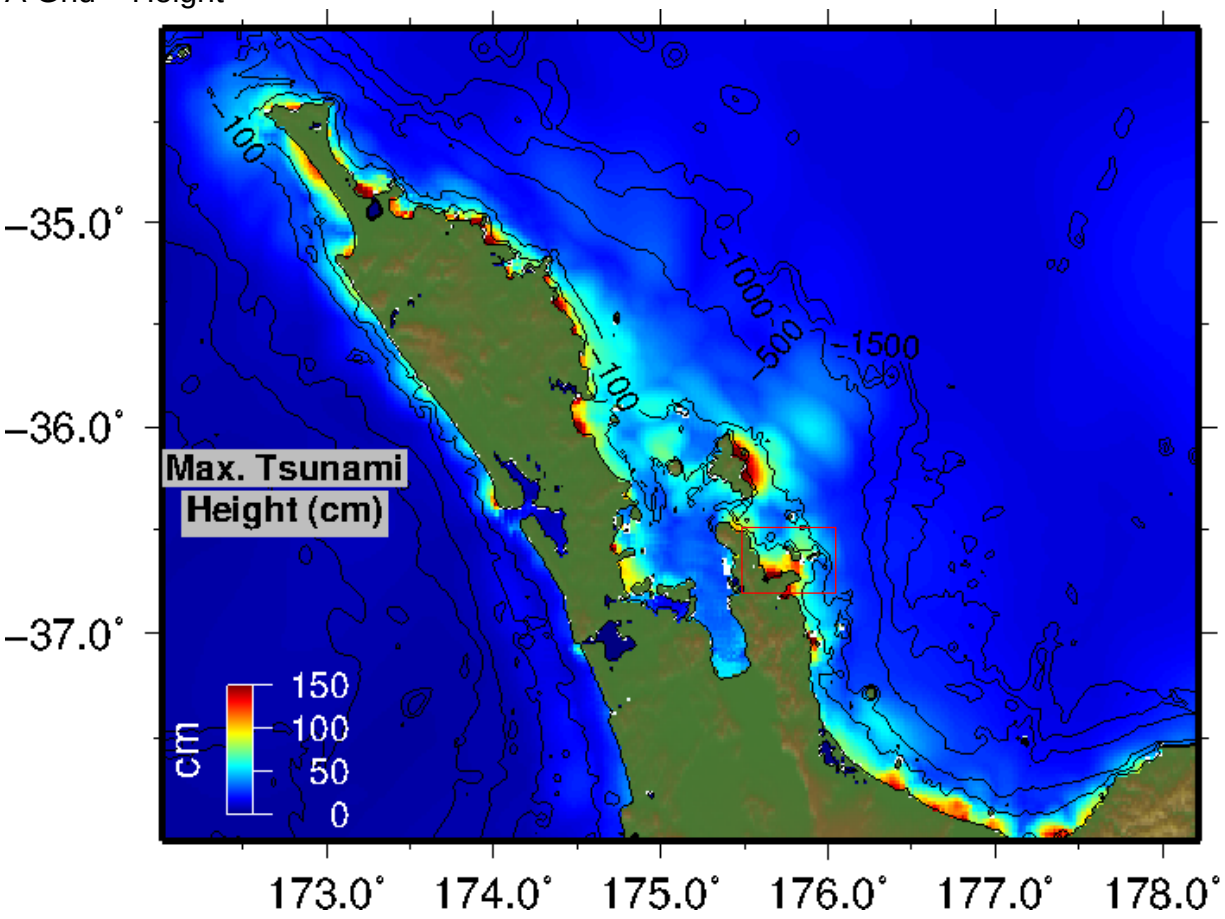
# 11 APPENDIX 11 – WHANGAPOUA: DISTANT SOURCE TSUNAMI

## *11.1 Valdivia, Chile 1960*

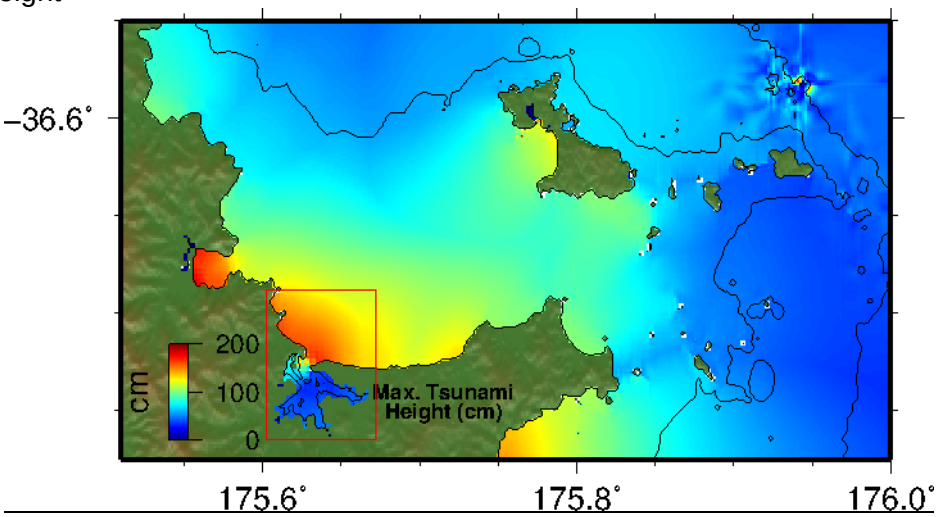
Propagation Model



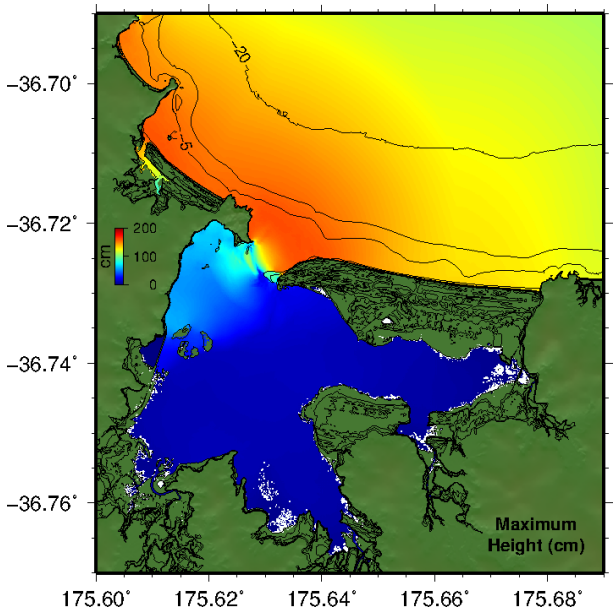

A Grid – Height



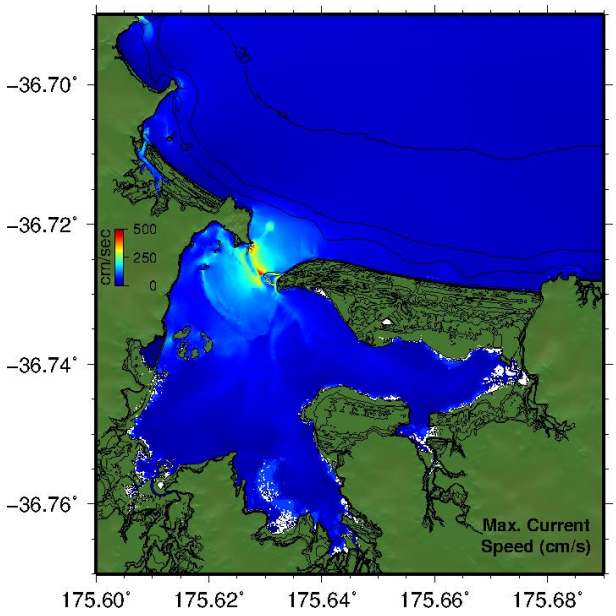
B Grid - Height




C Grid – Height

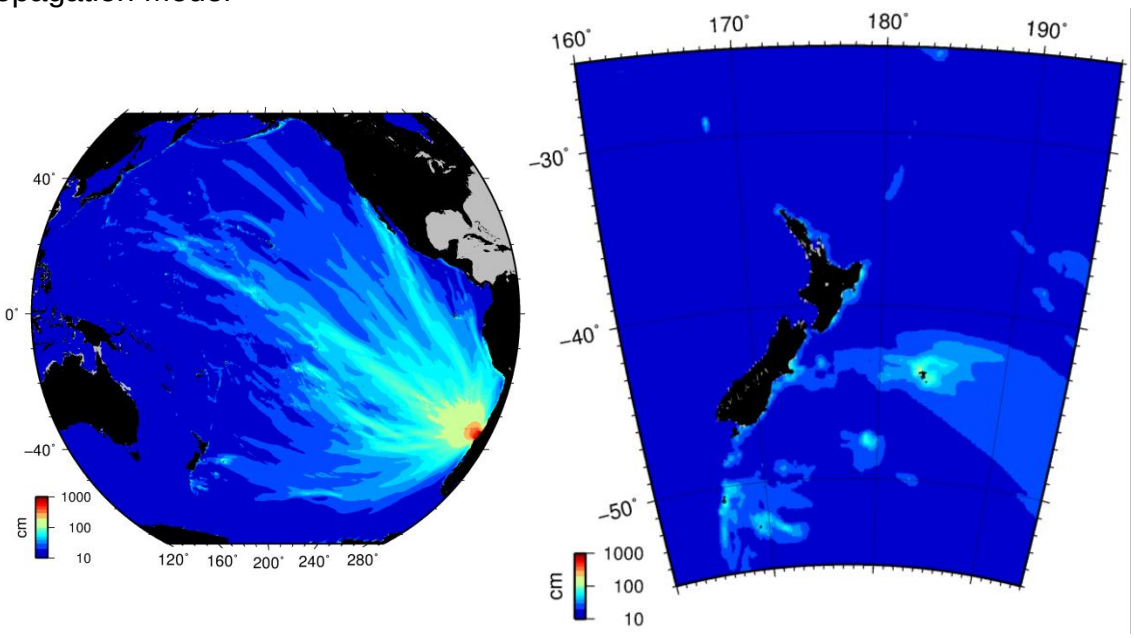



Current Speed

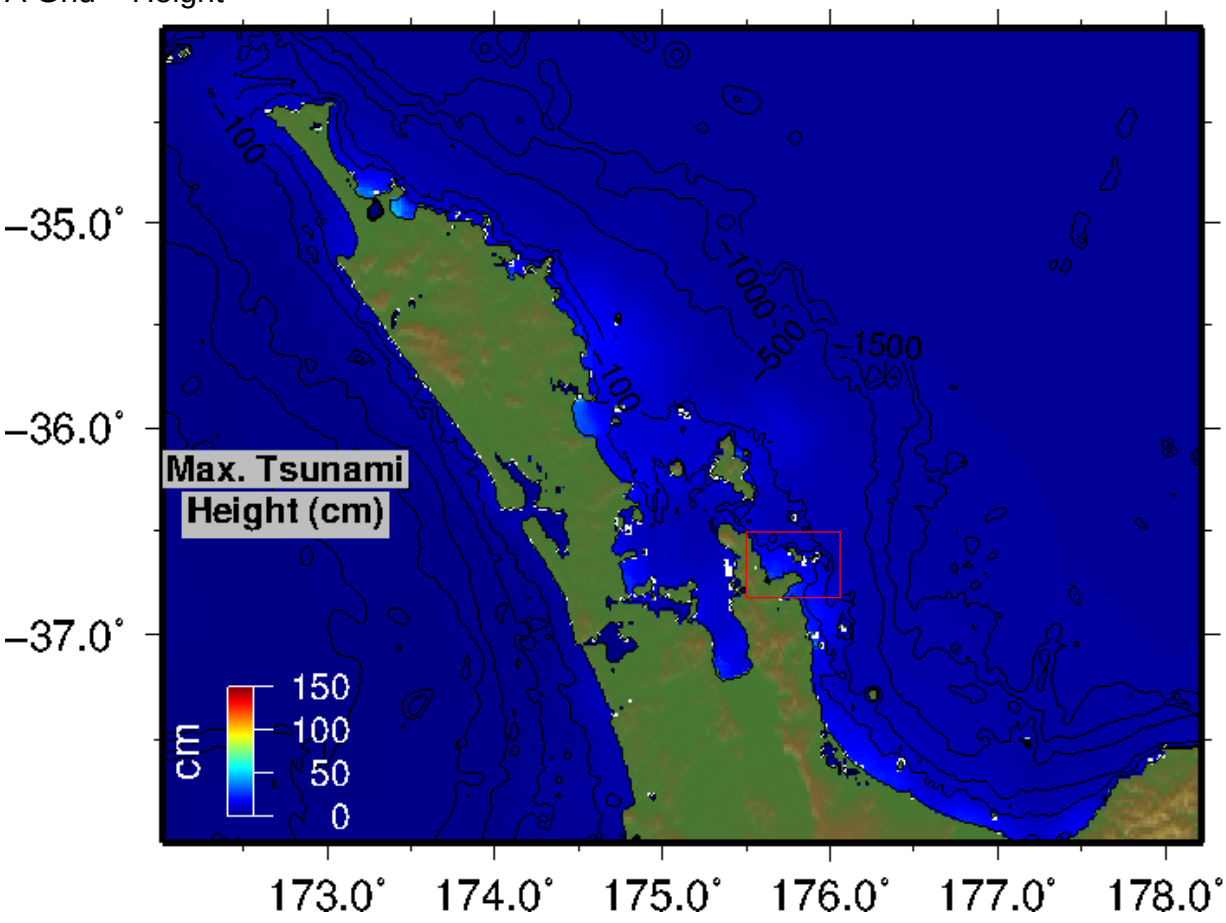


### *11.2 Maule, Chile 2010*

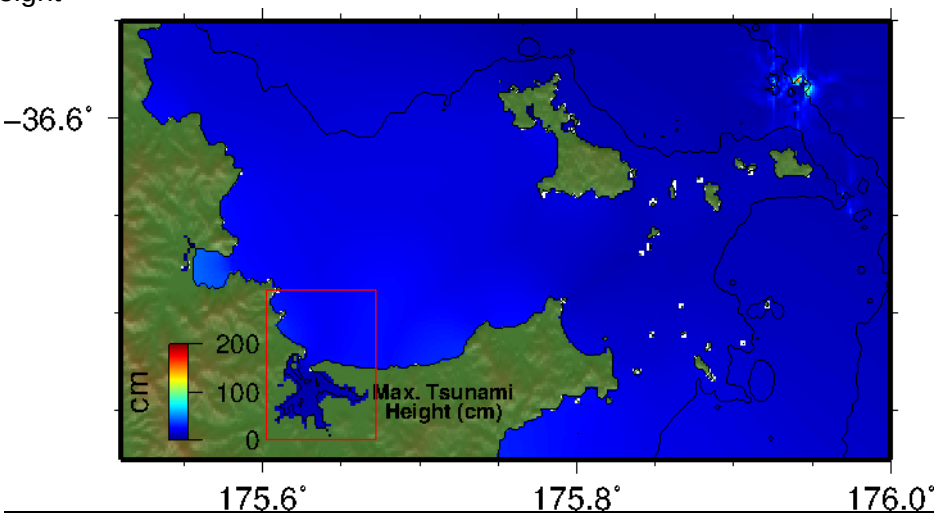
Propagation Model



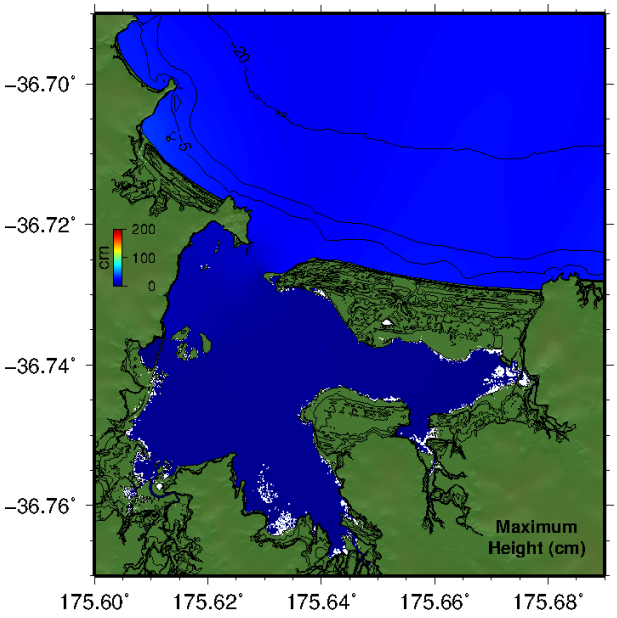

A Grid – Height



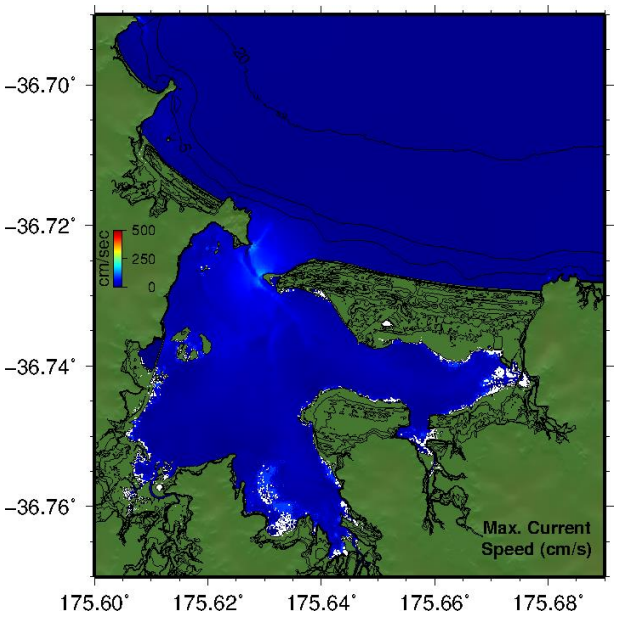
B Grid - Height




C Grid – Height

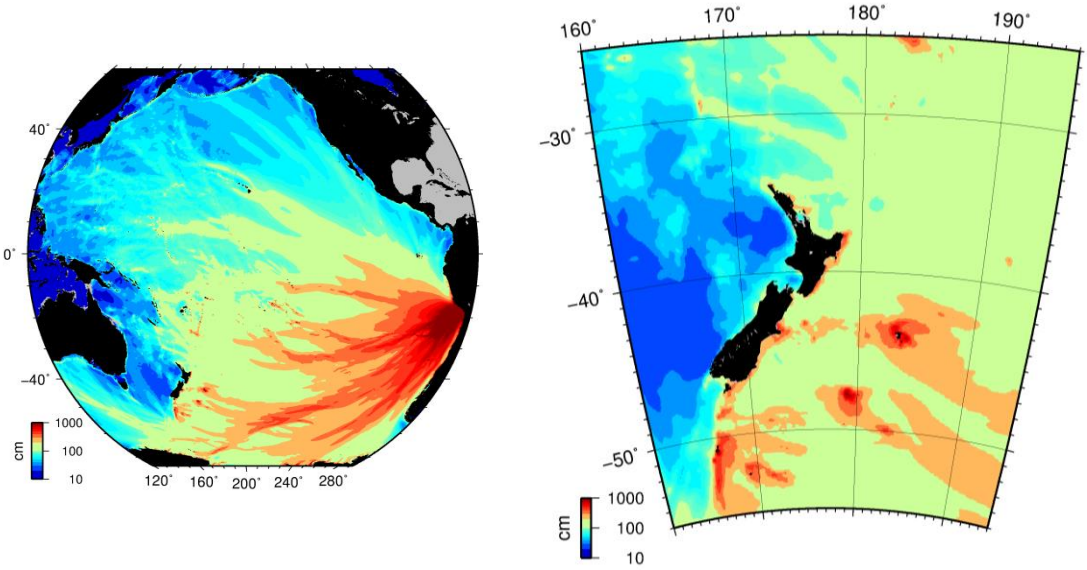



Current Speed

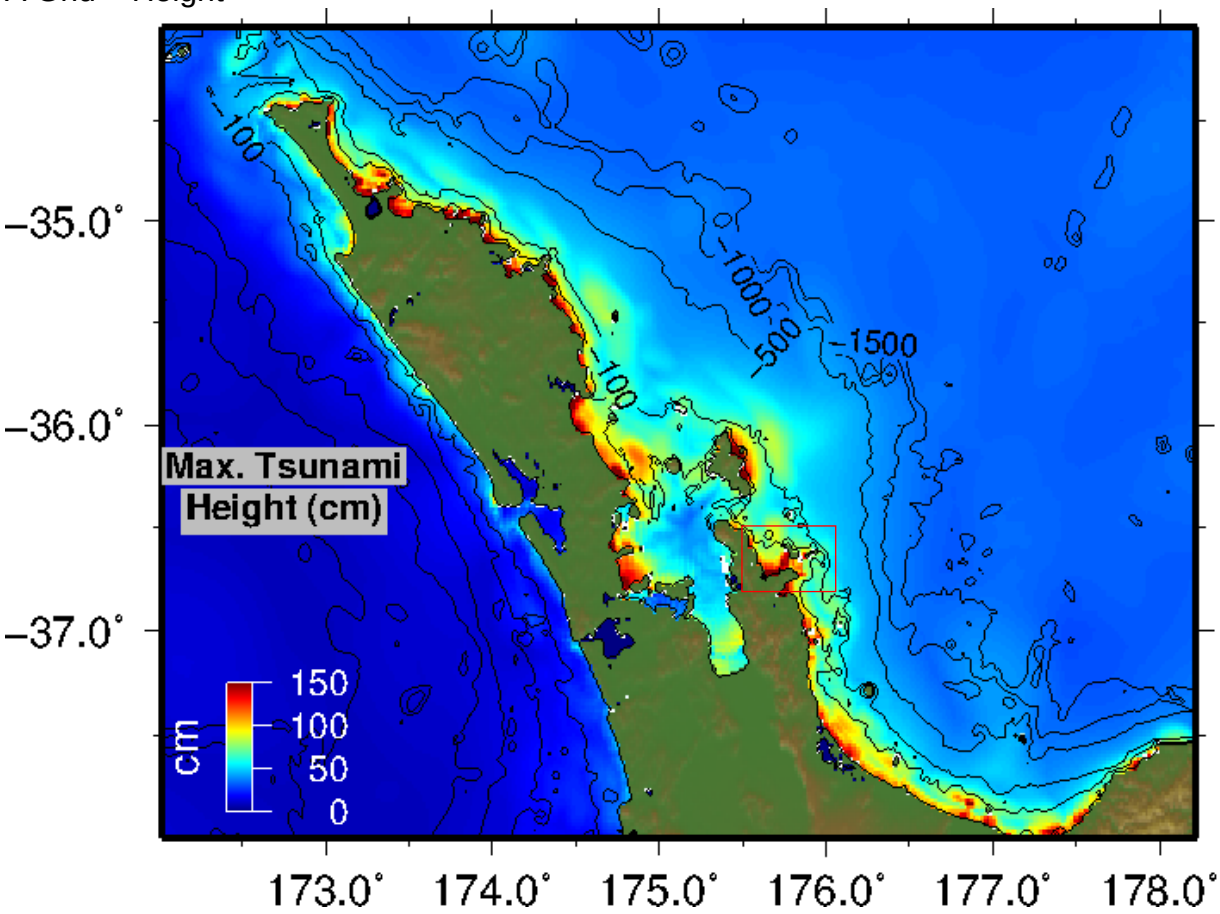


### *11.3 Arica, 1868*

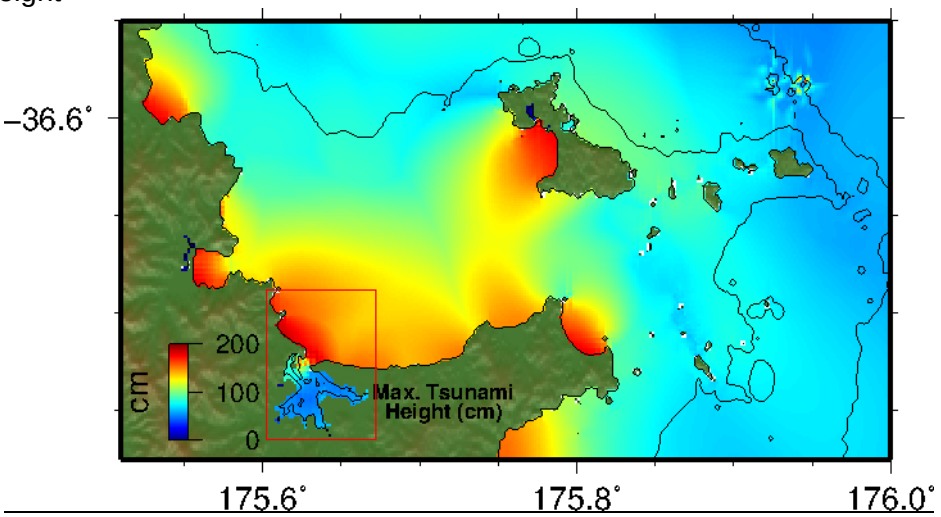
Propagation Model



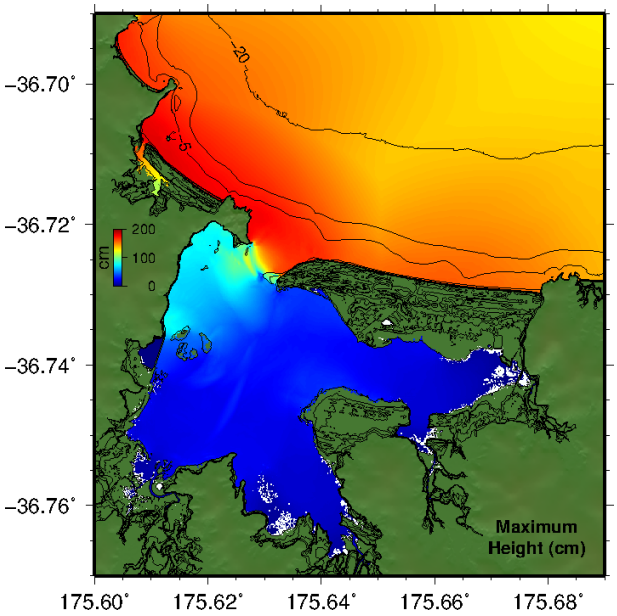

A Grid – Height



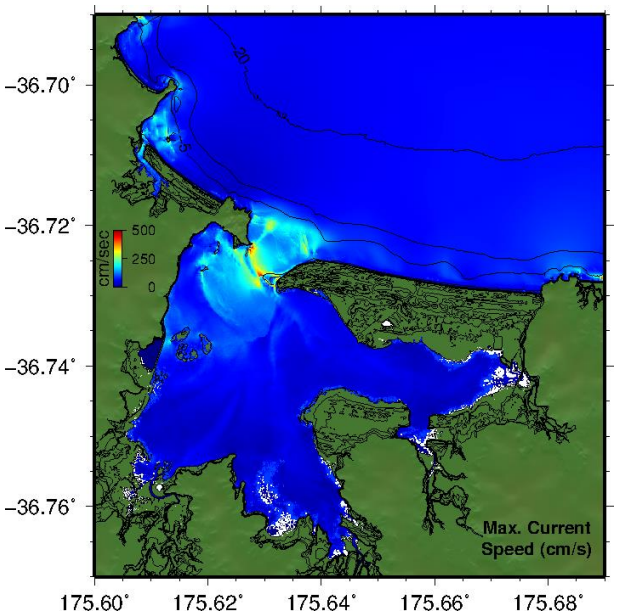
B Grid - Height




C Grid – Height

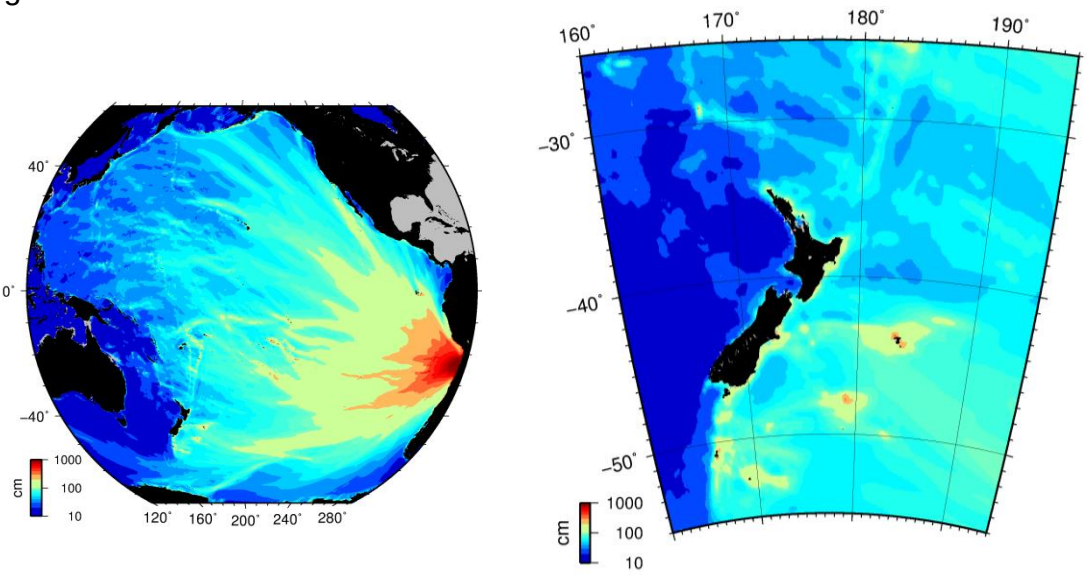



Current Speed

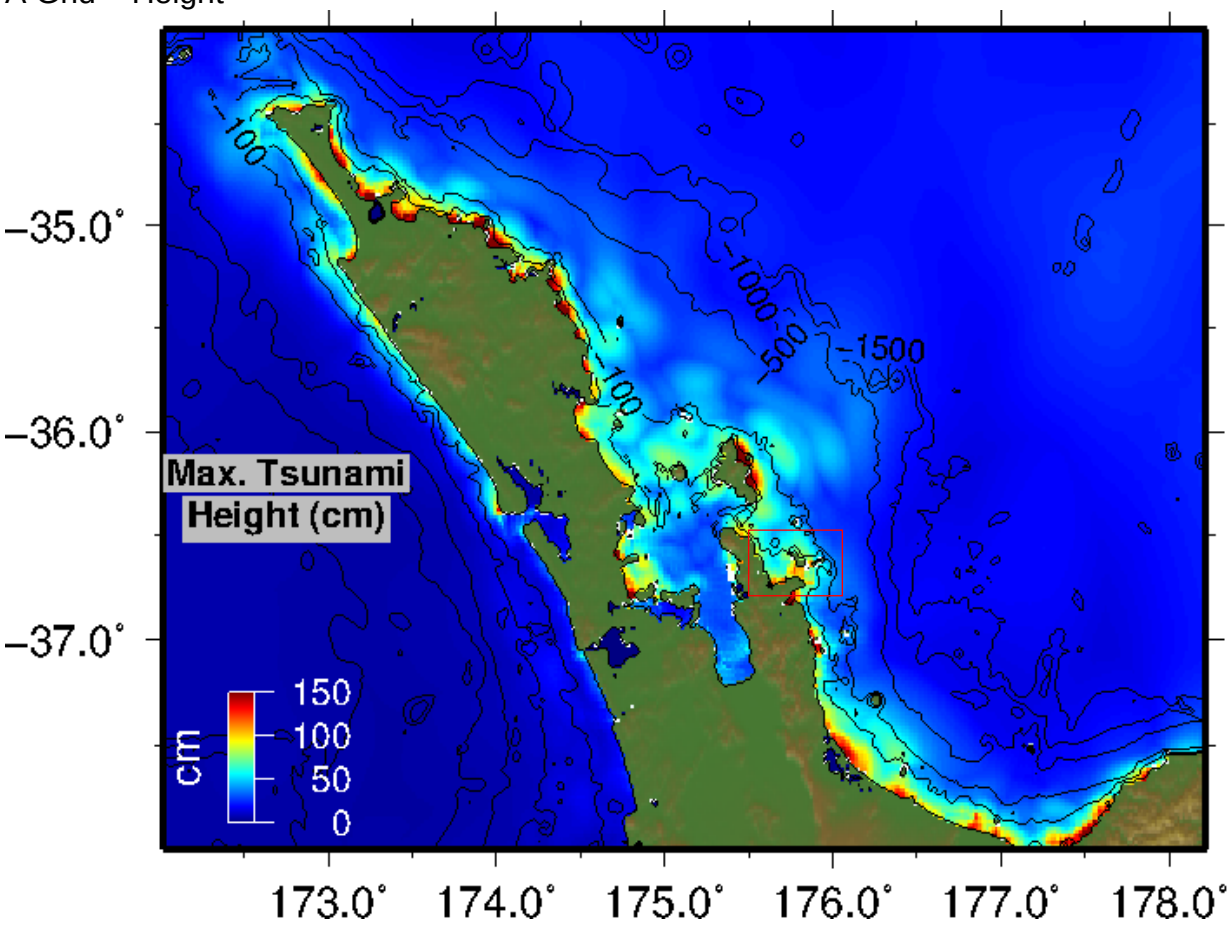


### *11.4 Chile North 1*

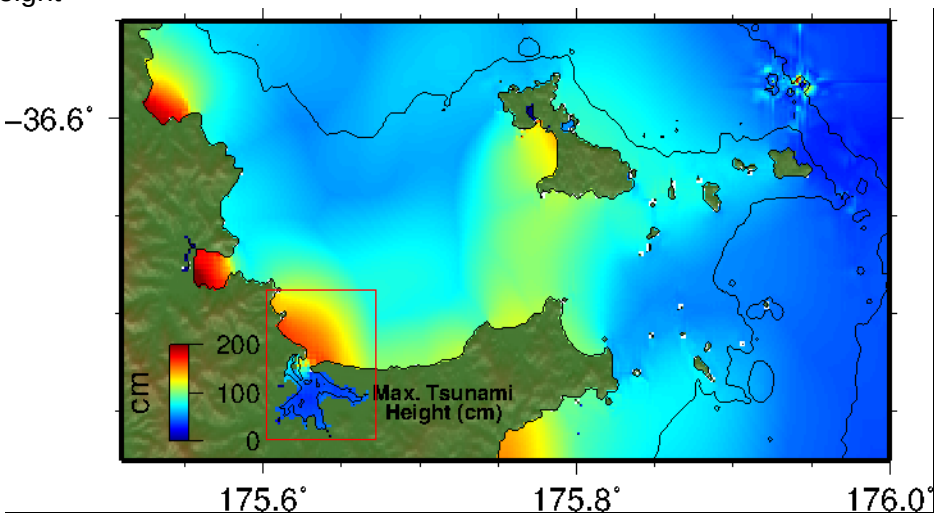
Propagation Model



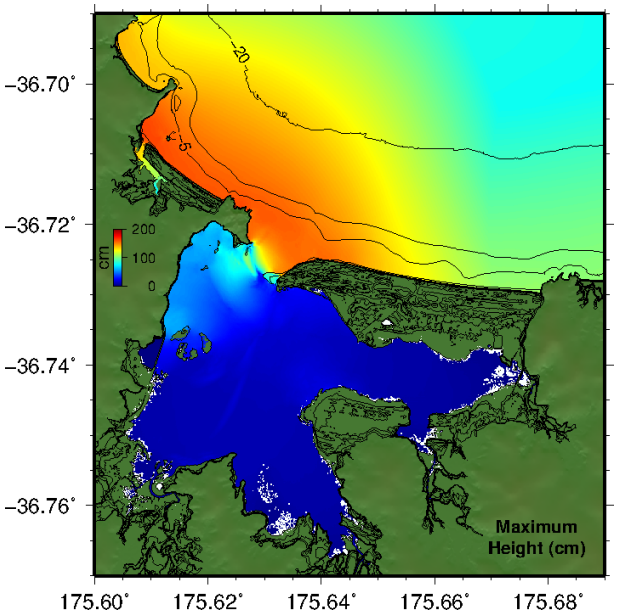

A Grid – Height



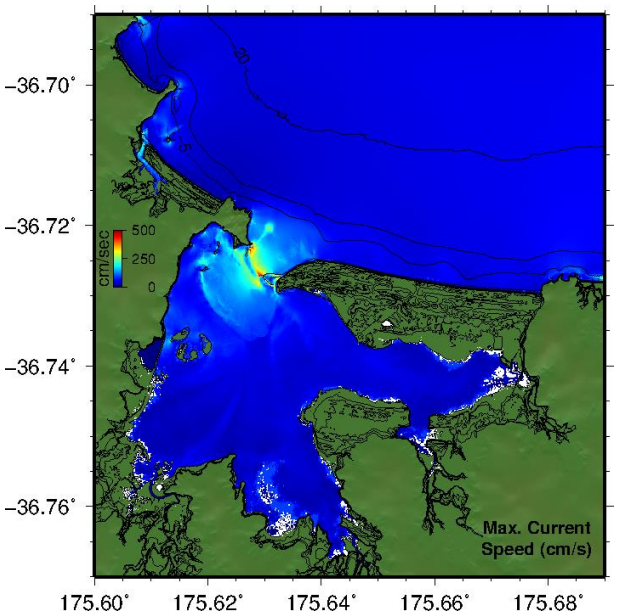
B Grid - Height




C Grid – Height

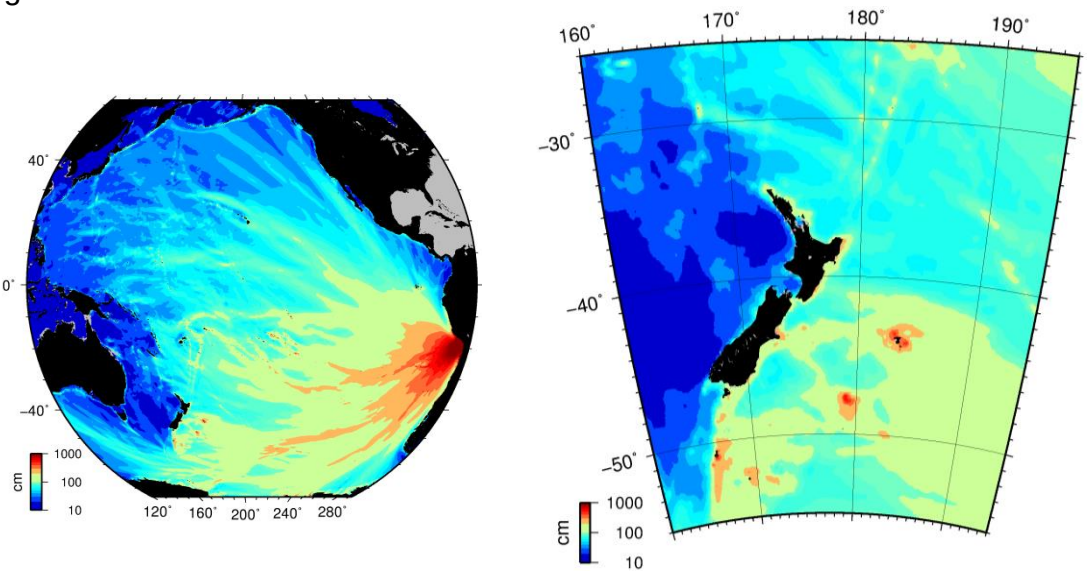



Current Speed

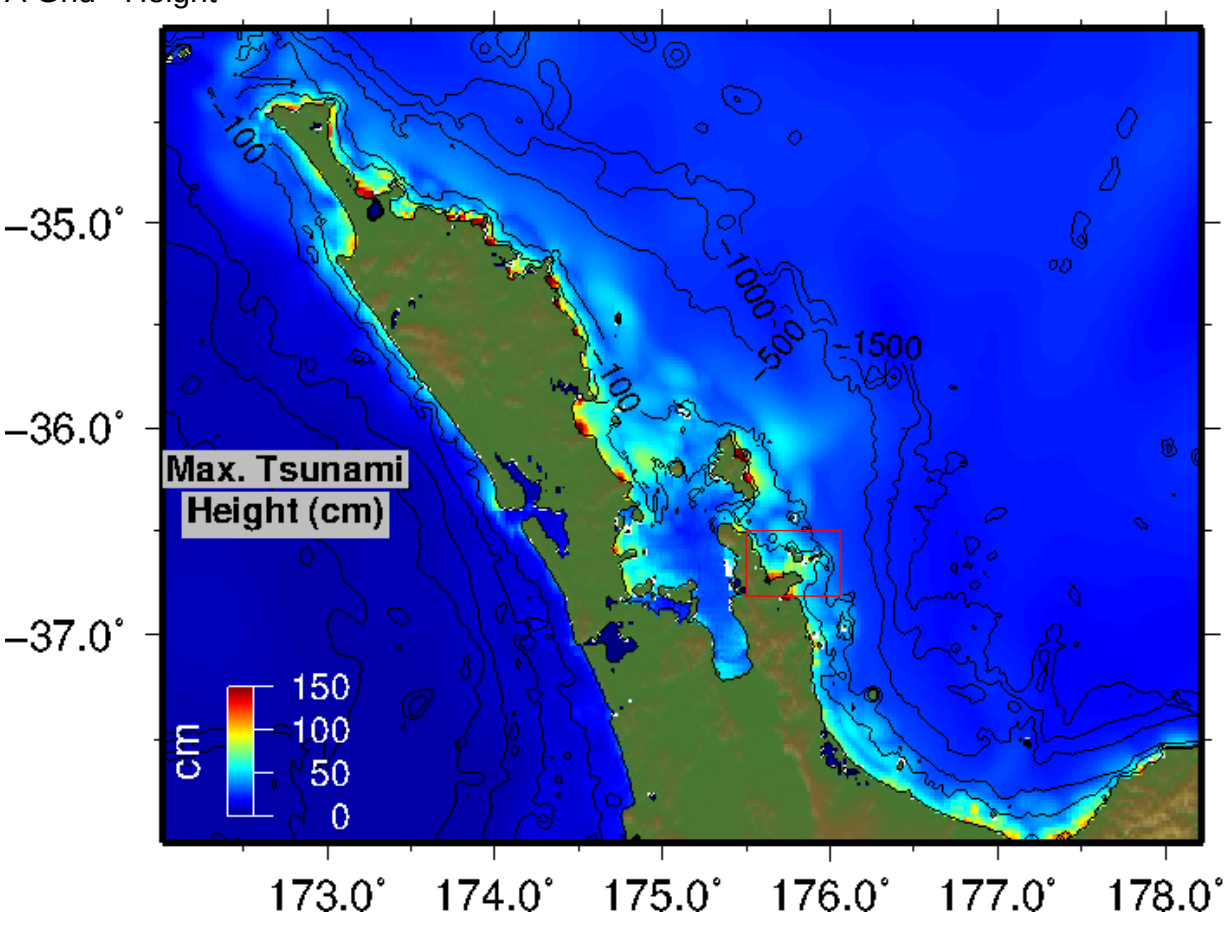


### *11.5 Chile North 2*

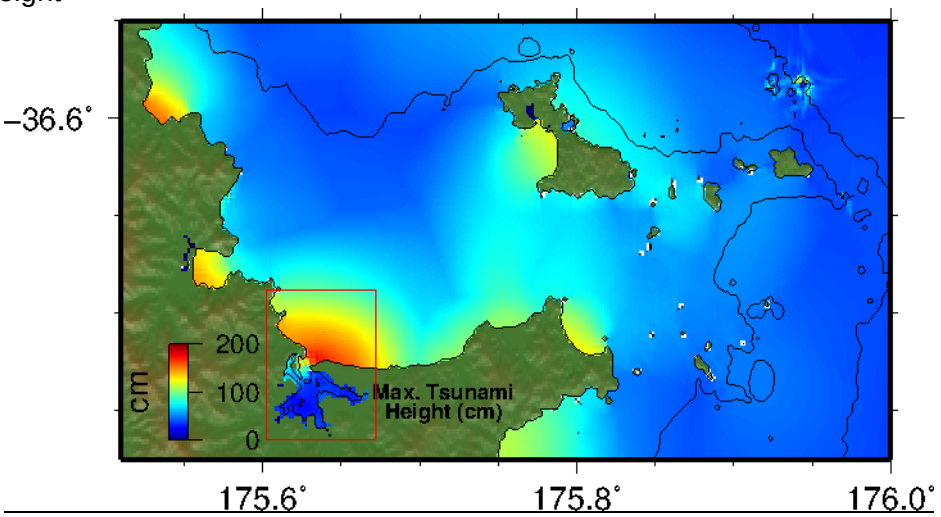
Propagation Model



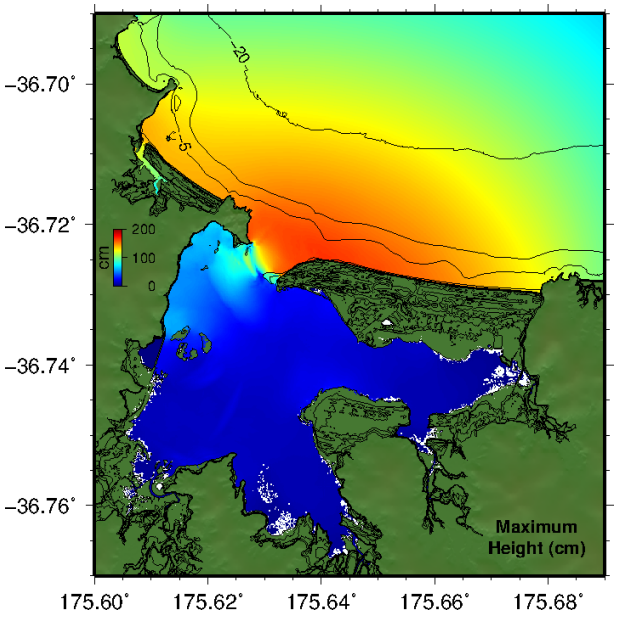

A Grid - Height



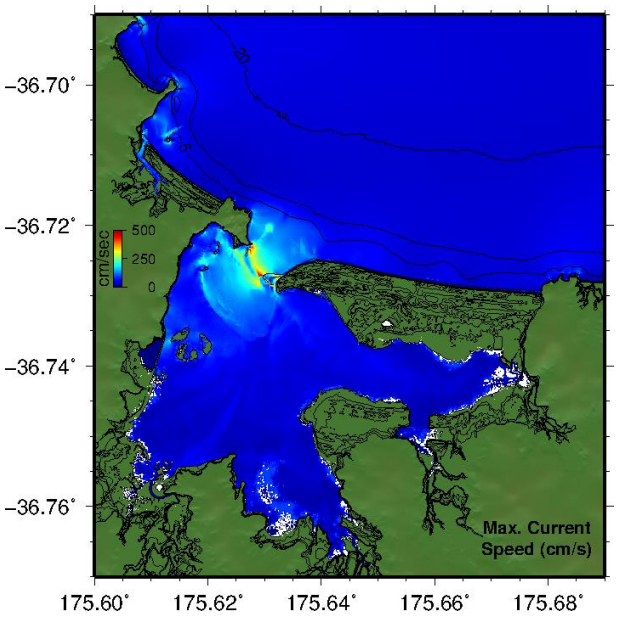
B Grid - Height




C Grid – Height

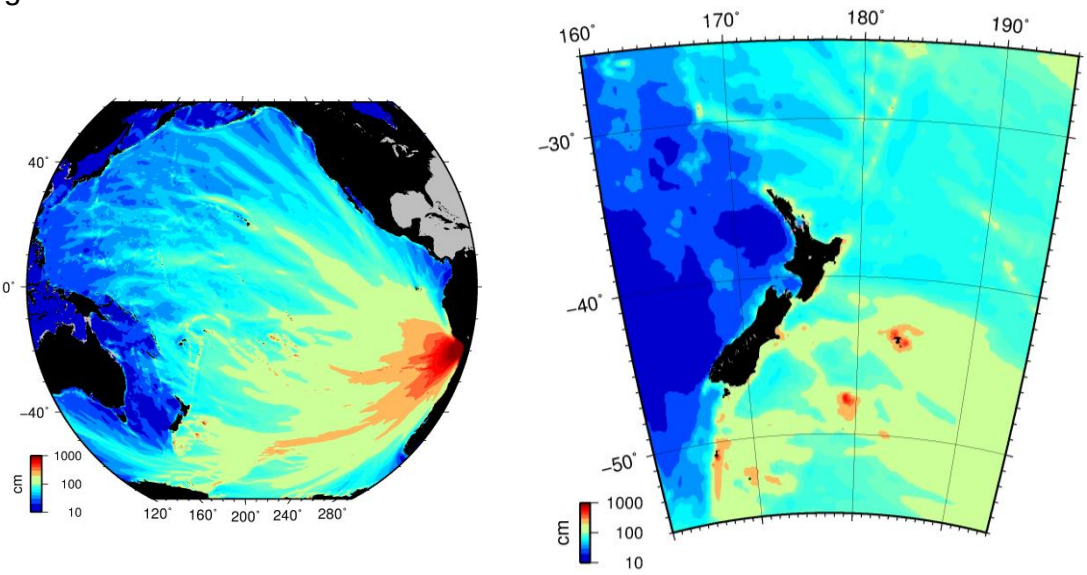



Current Speed

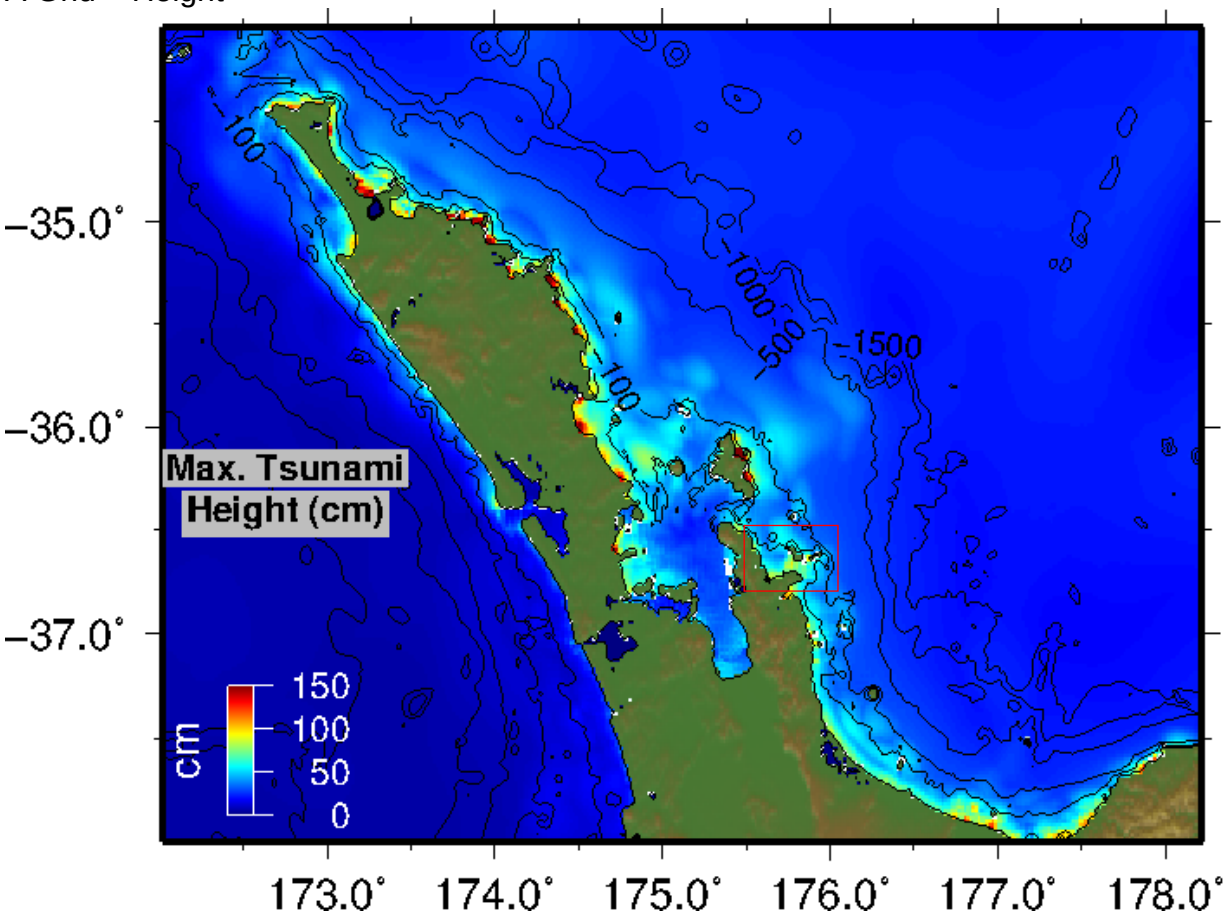


### *11.6 Chile North 3*

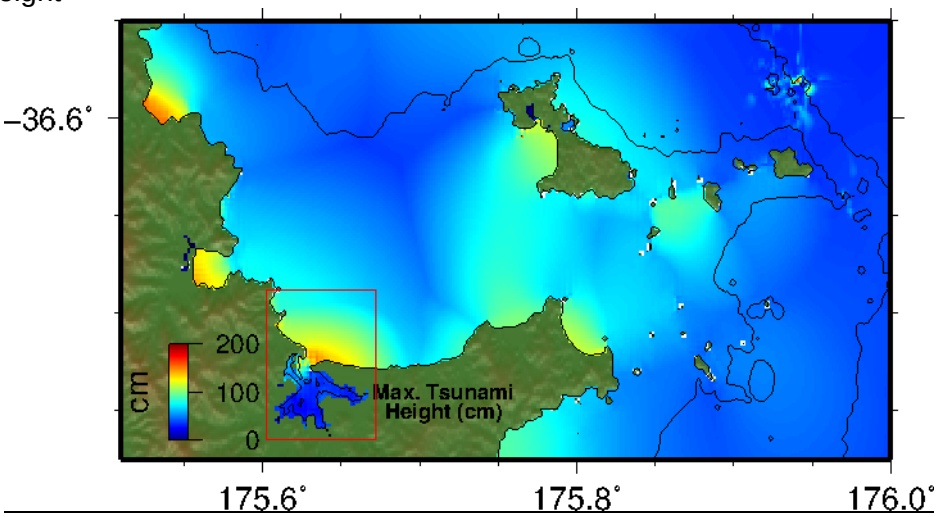
Propagation Model



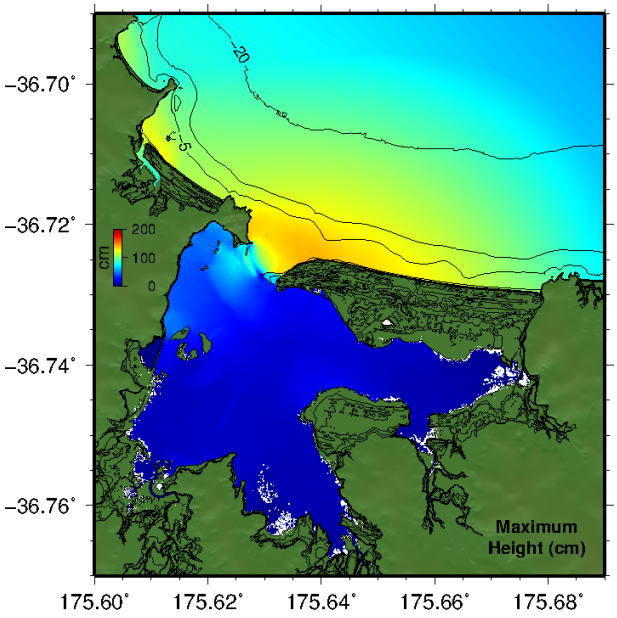

A Grid – Height



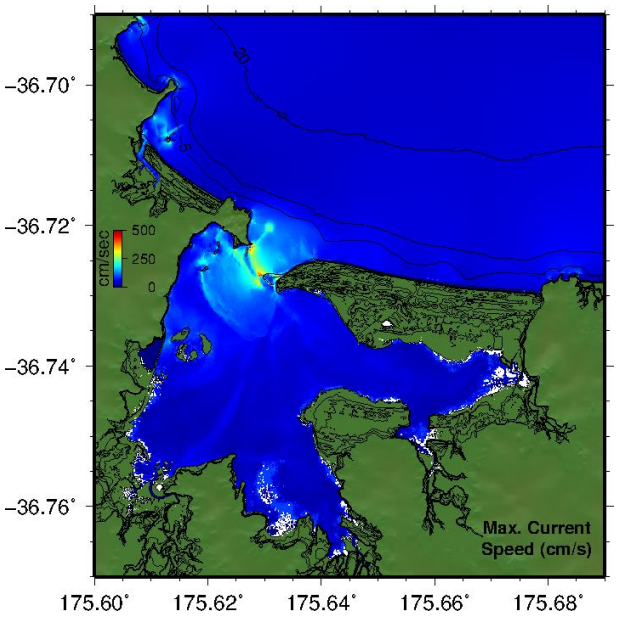
B Grid - Height




C Grid – Height

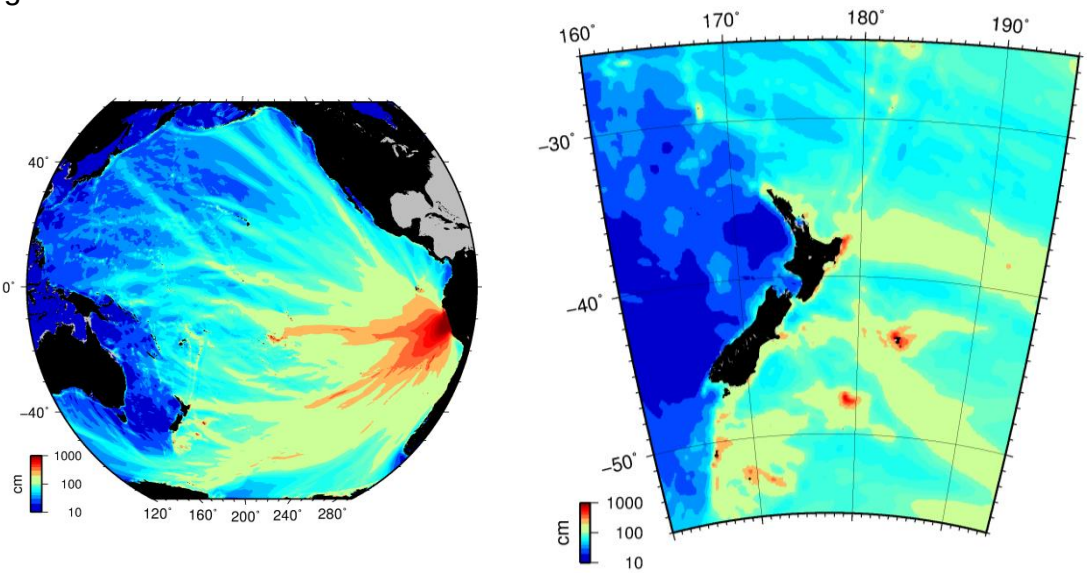



Current Speed

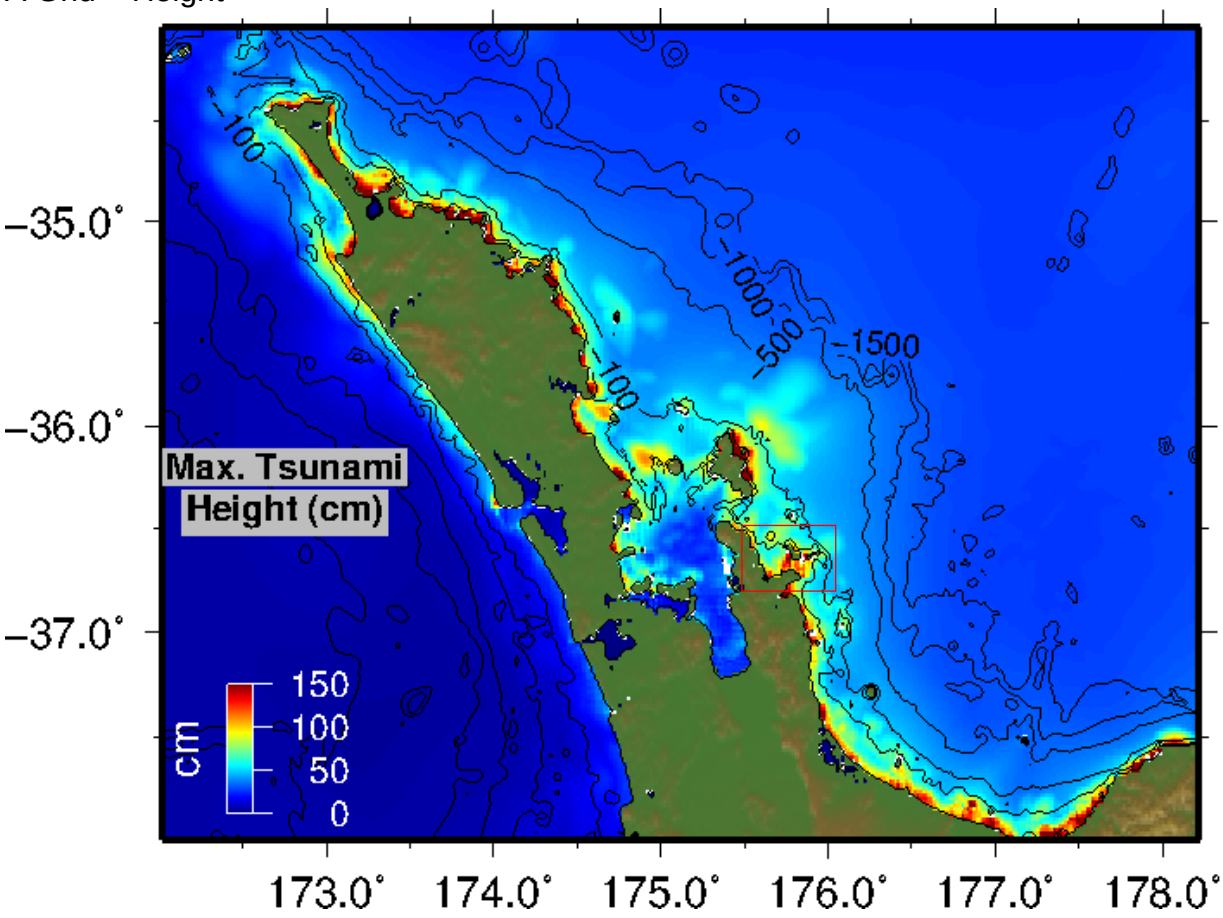


### *11.7 Central Peru*

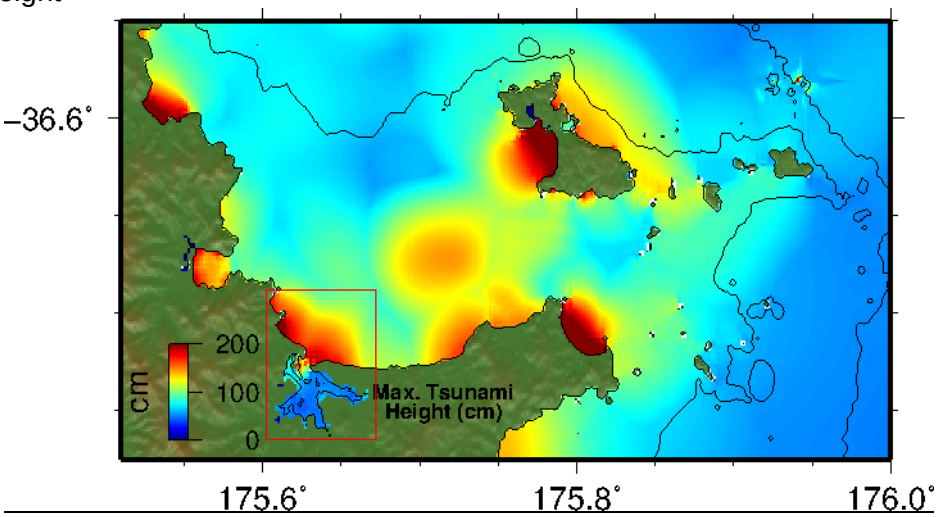
Propagation Model



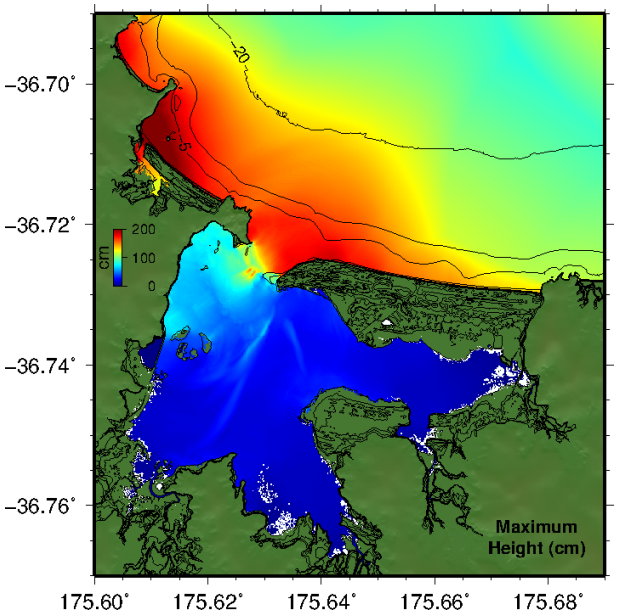

A Grid – Height



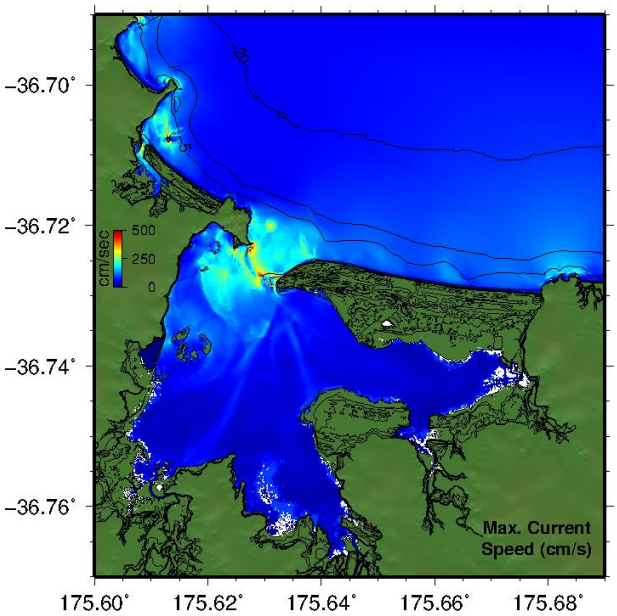
B Grid - Height




C Grid – Height



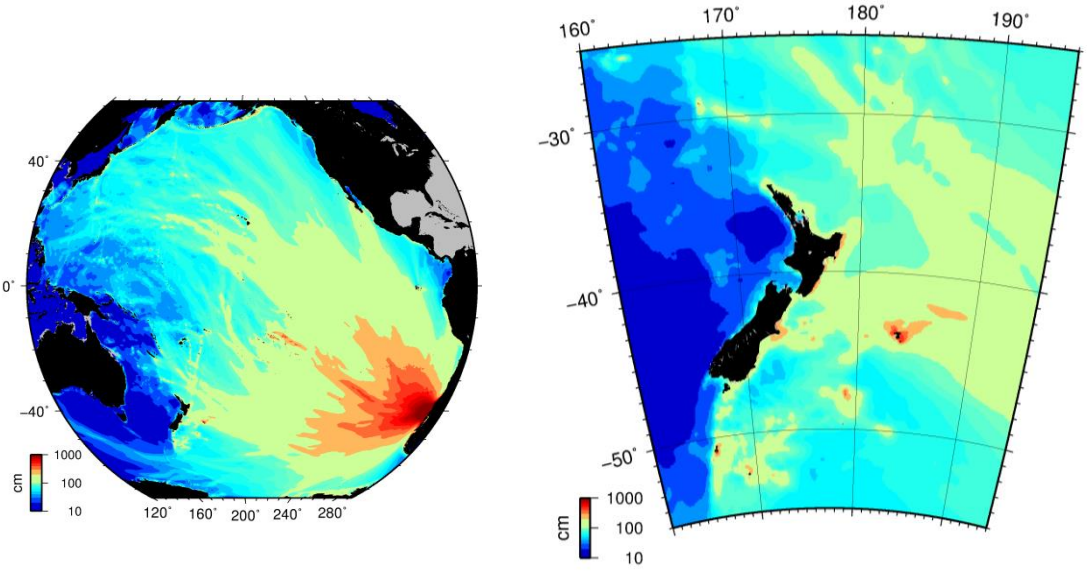

Current Speed



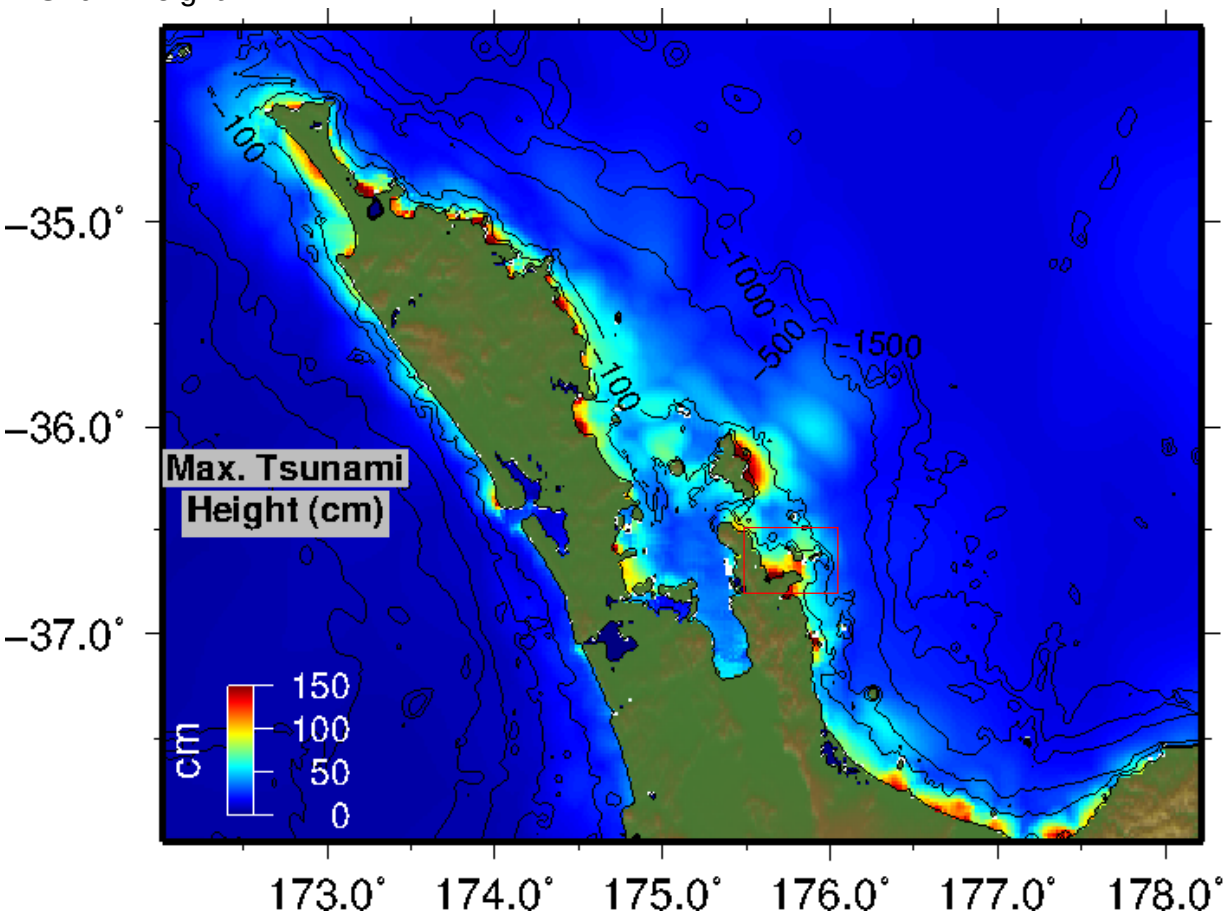
# 12 APPENDIX 12 – KUAOTUNU: DISTANT SOURCE TSUNAMI

## *12.1 Valdivia, Chile 1960*

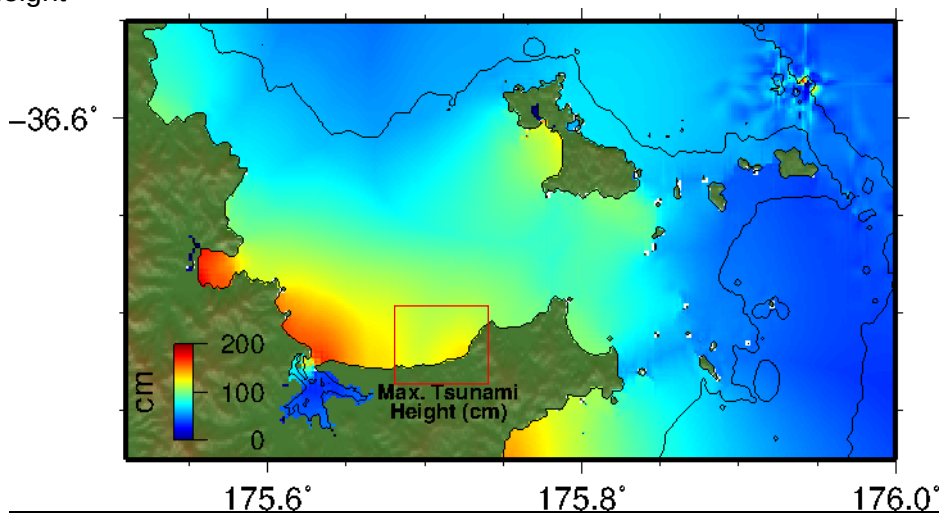
Propagation Model



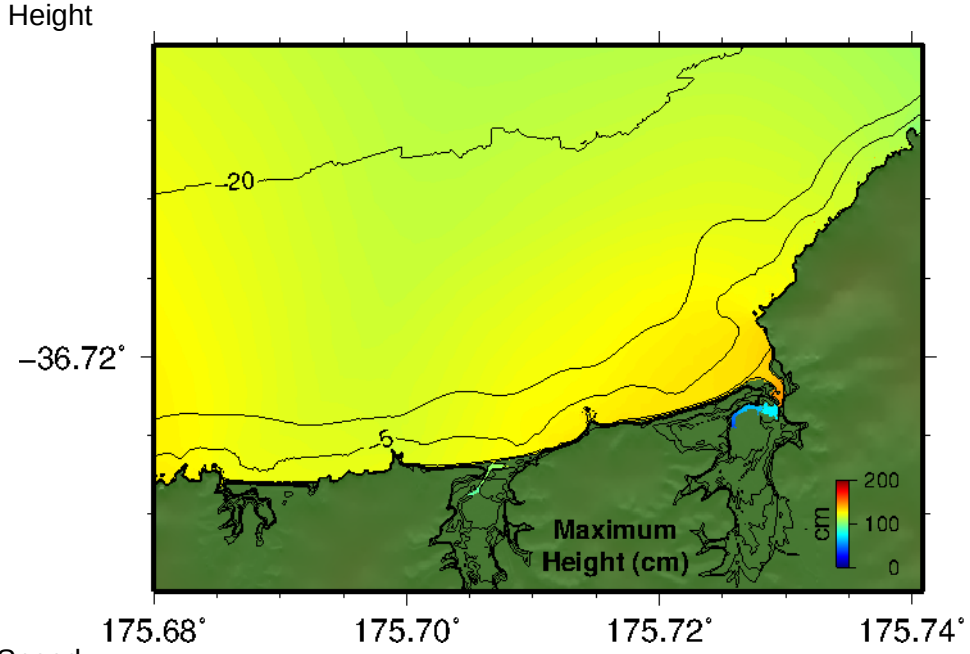

A Grid – Height



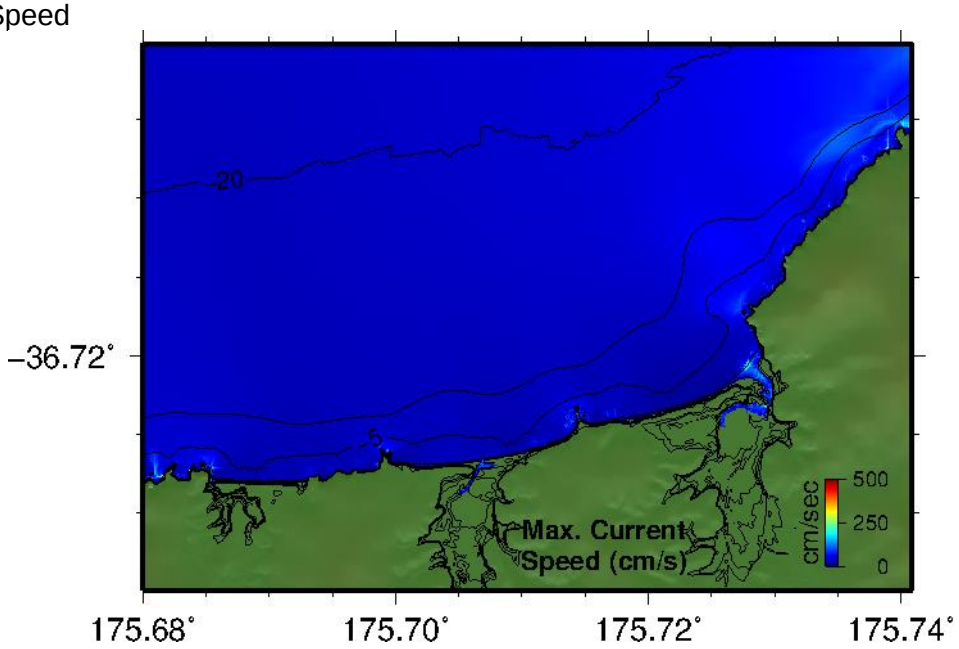
B Grid - Height




C Grid – Height

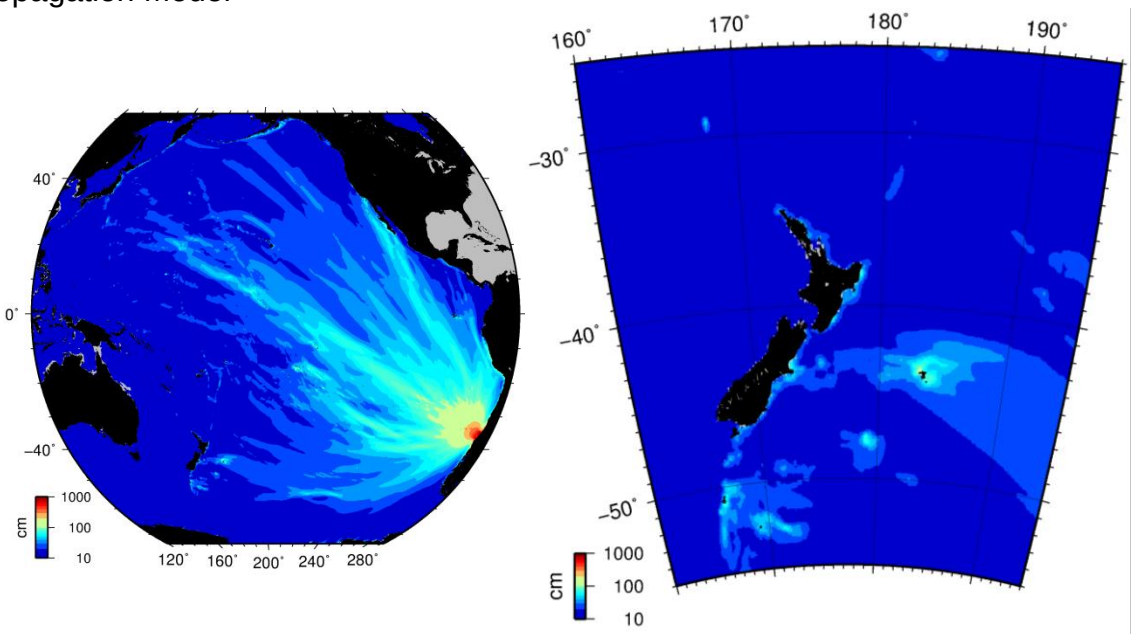



Current Speed

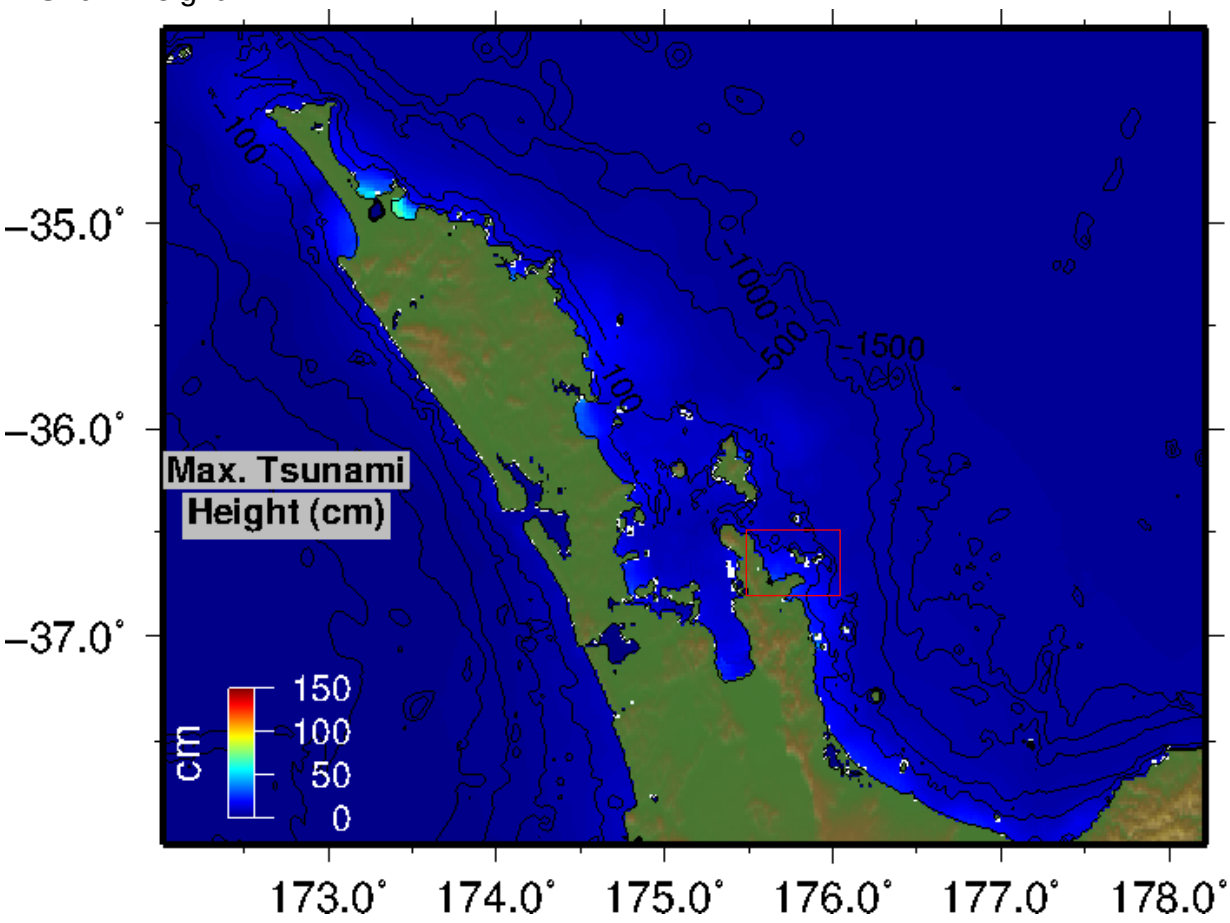


### *12.2 Maule, Chile 2010*

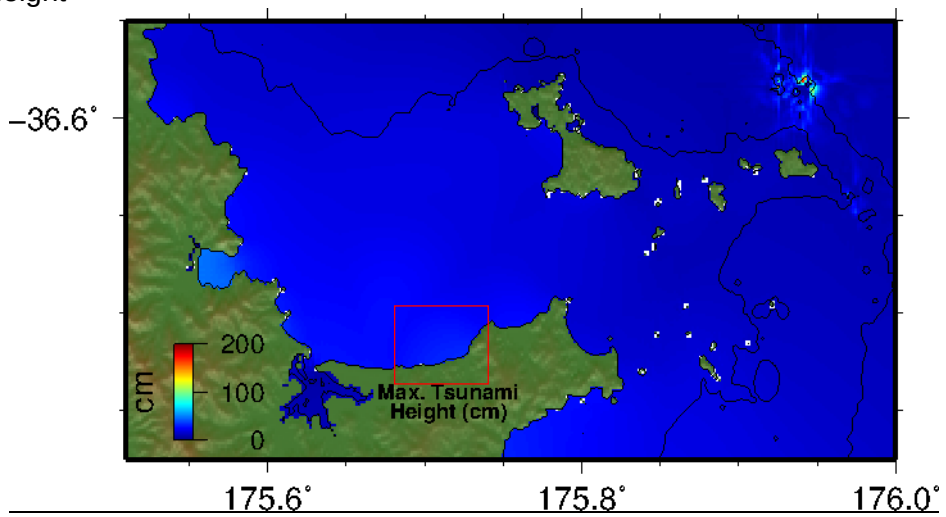
Propagation Model



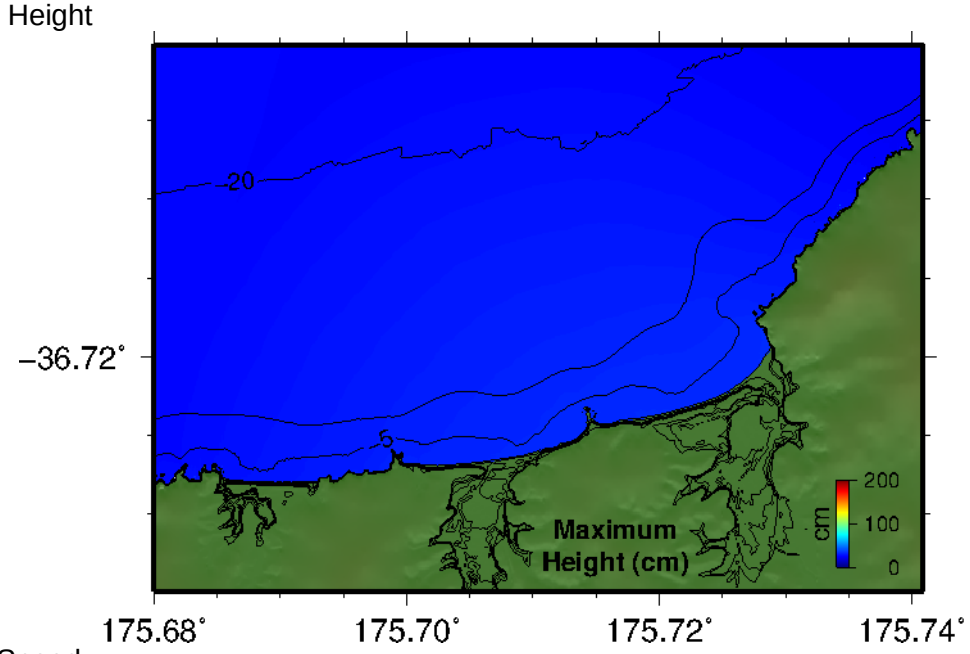

A Grid – Height



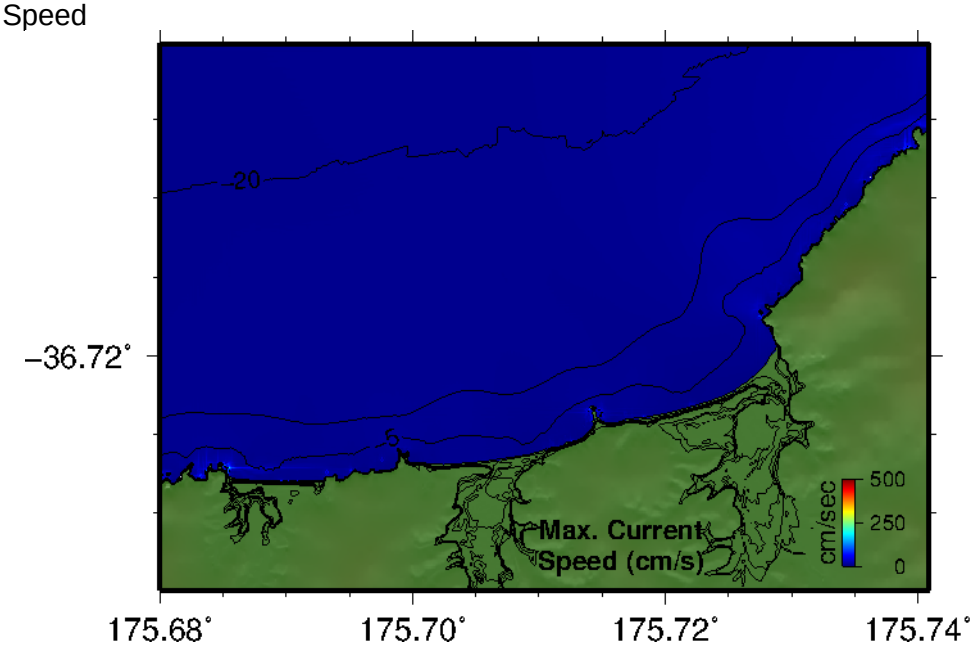
B Grid - Height




C Grid – Height

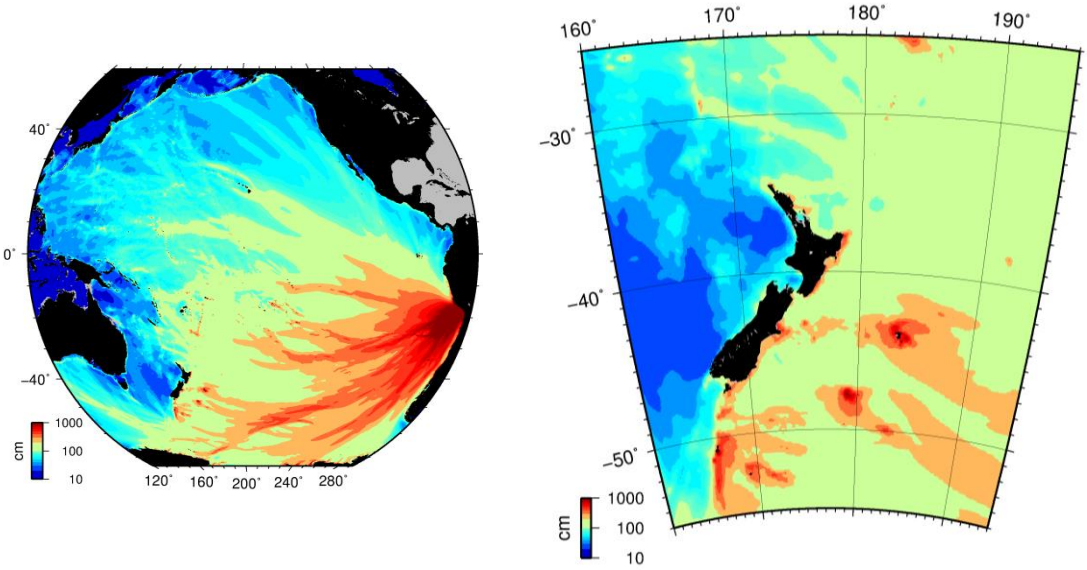



Current Speed

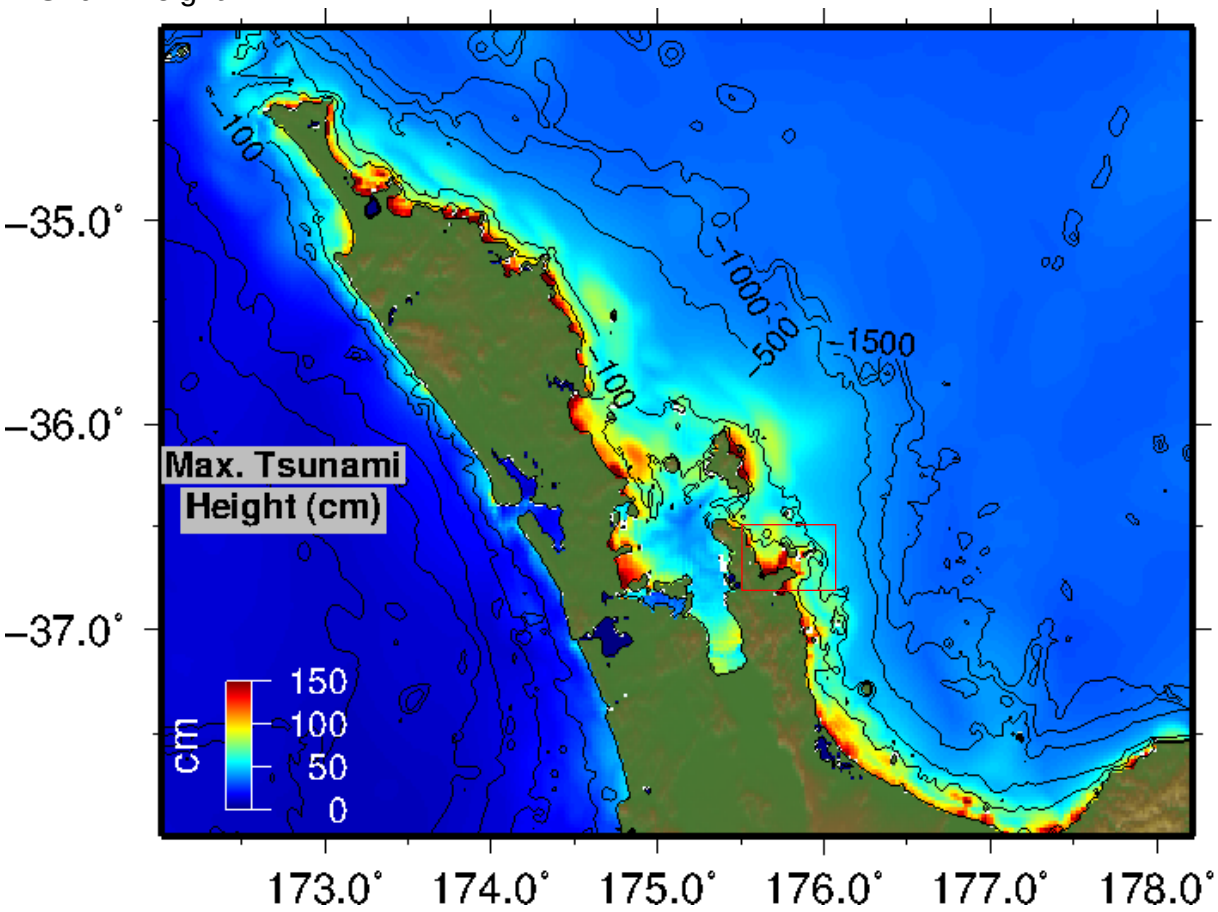


### *12.3 Arica, 1868*

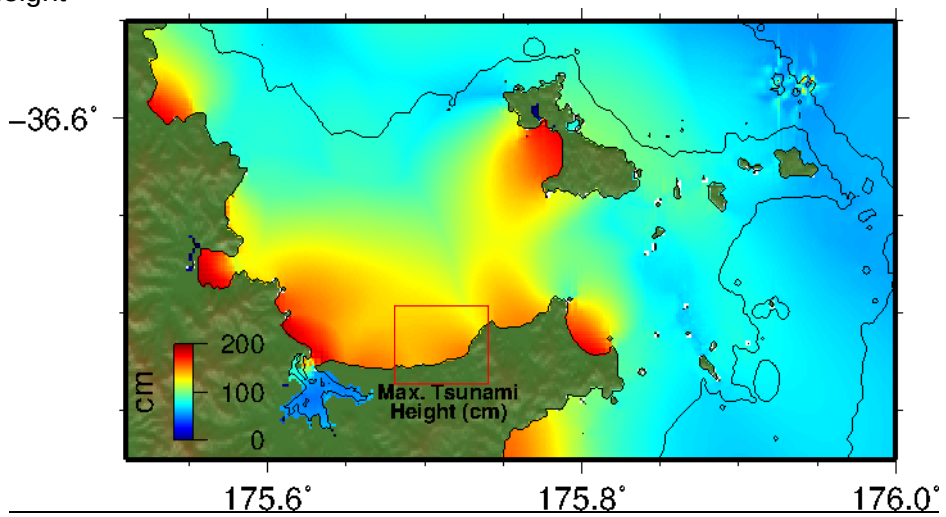
Propagation Model



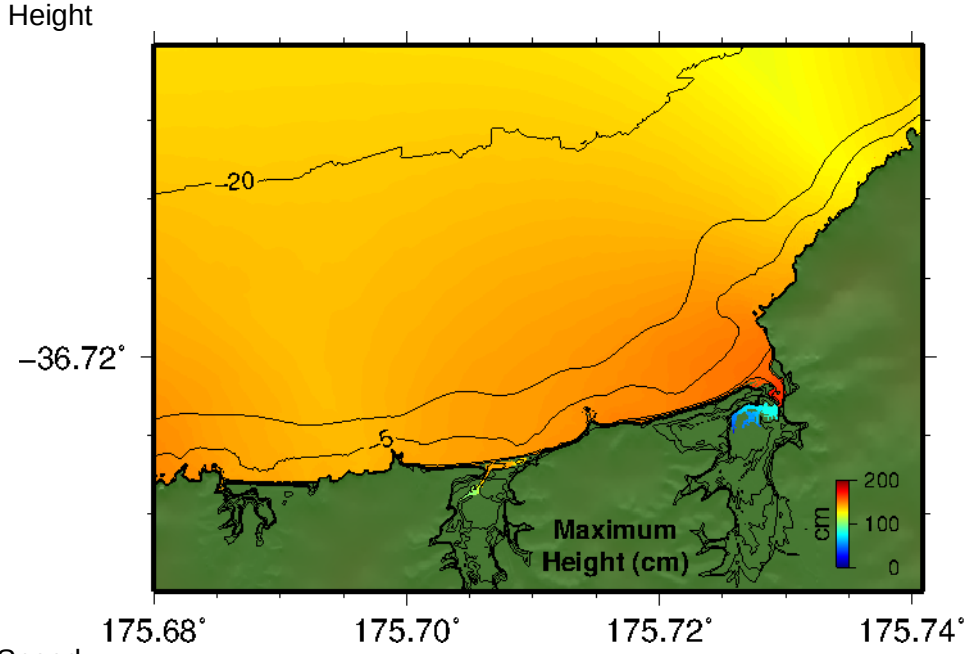

A Grid – Height



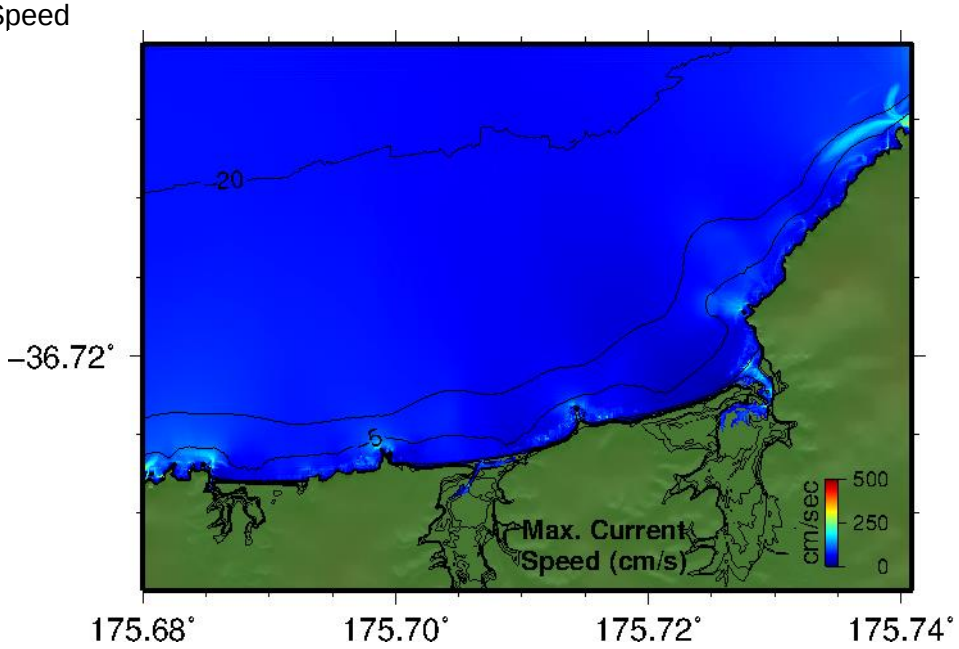
B Grid - Height




C Grid – Height

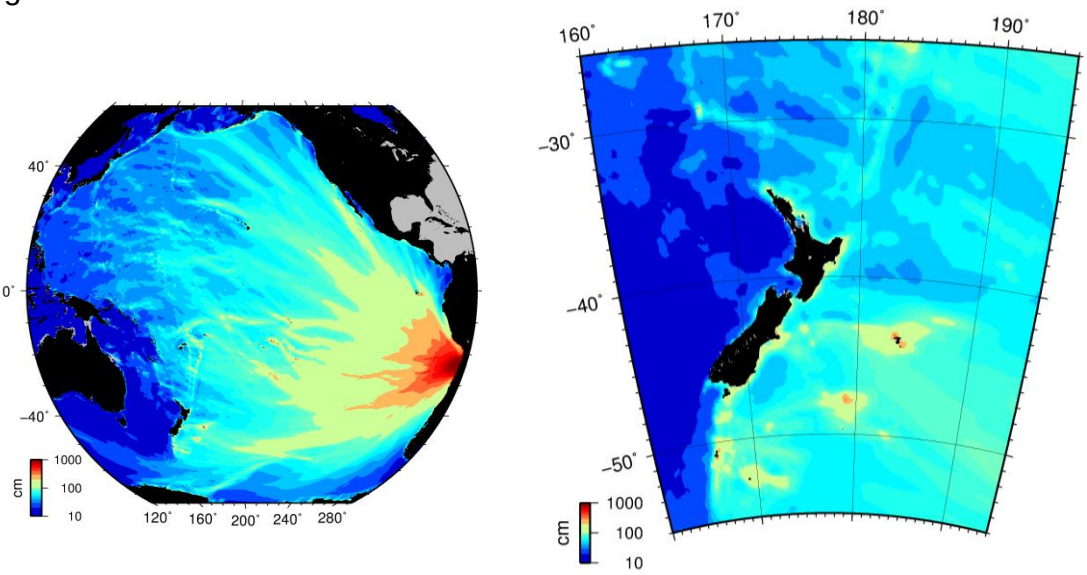



Current Speed

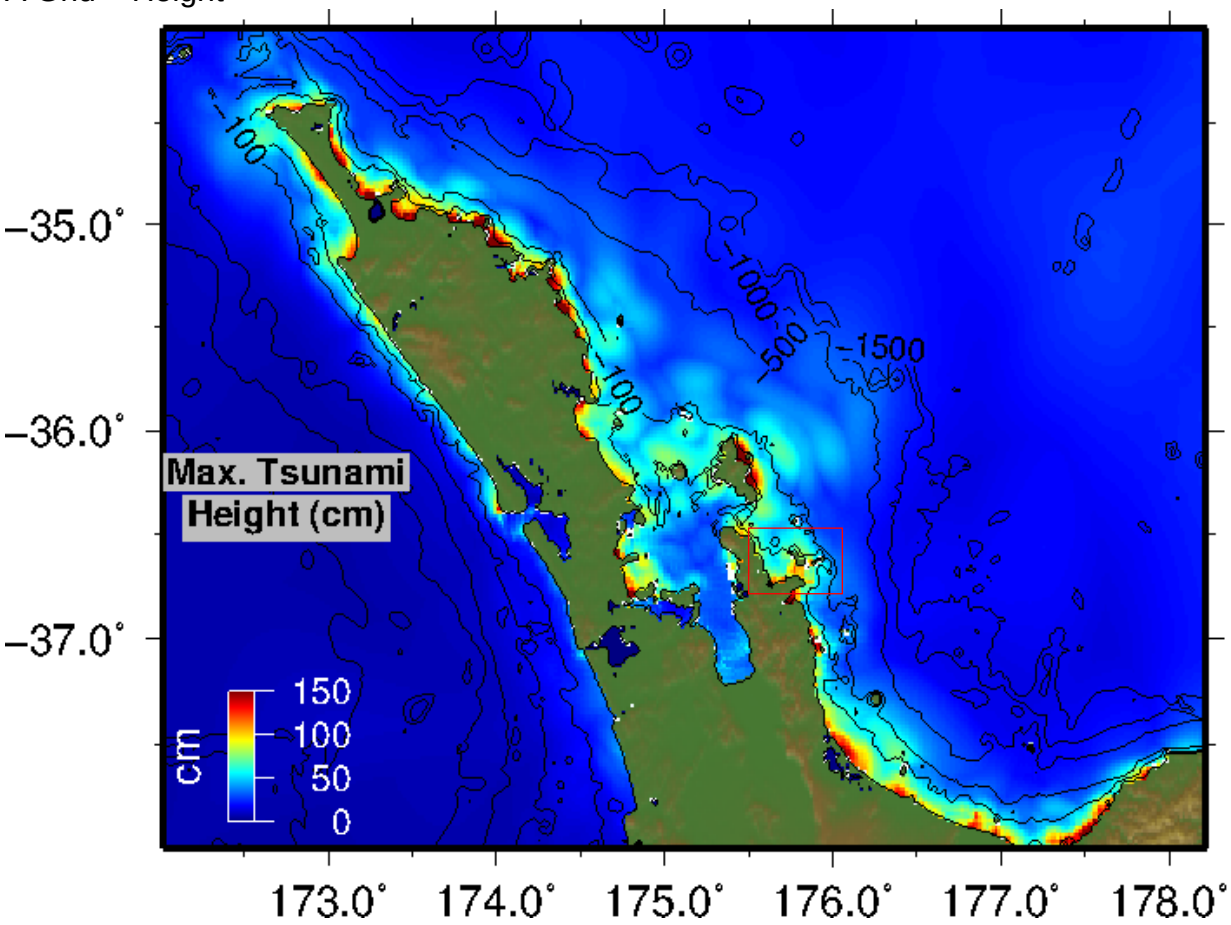


### *12.4 Chile North 1*

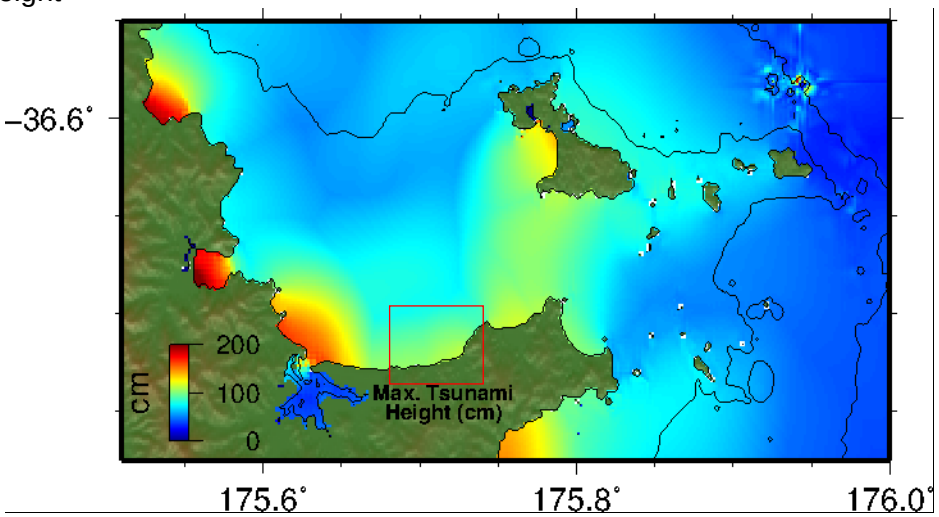
Propagation Model



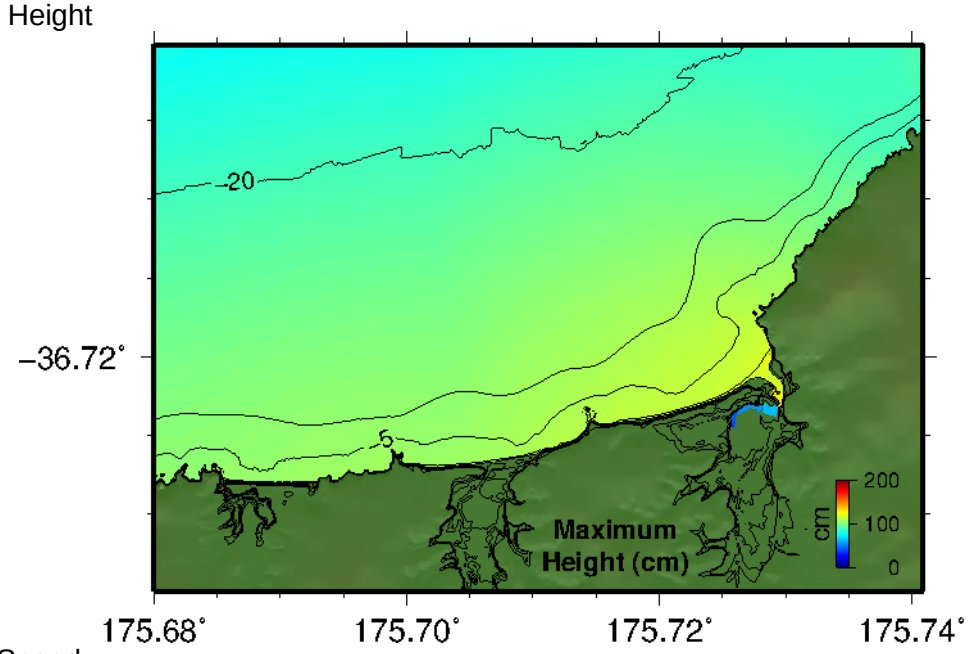

A Grid – Height



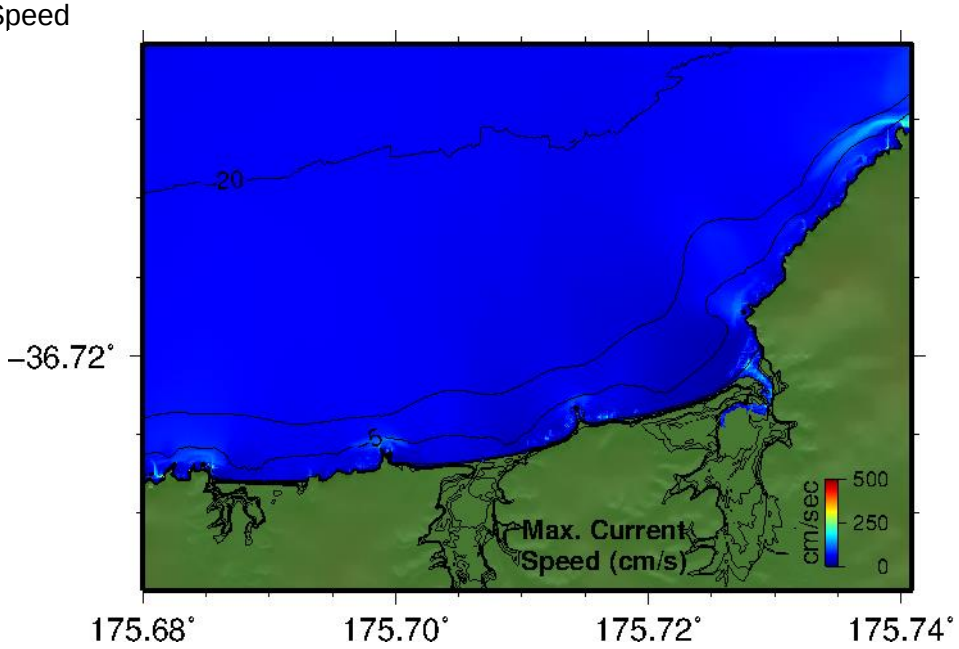
B Grid - Height




C Grid – Height

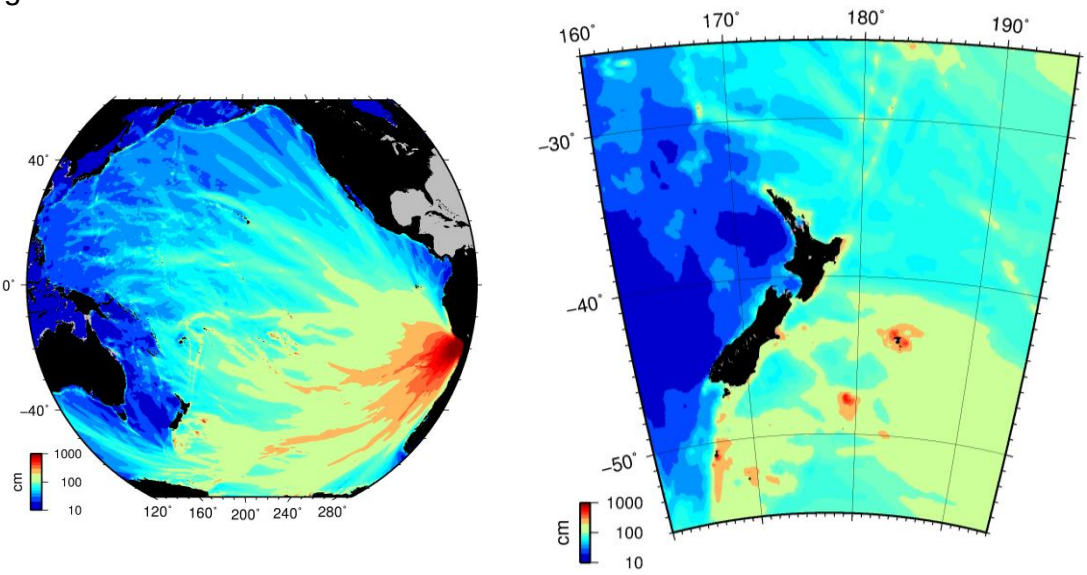



Current Speed

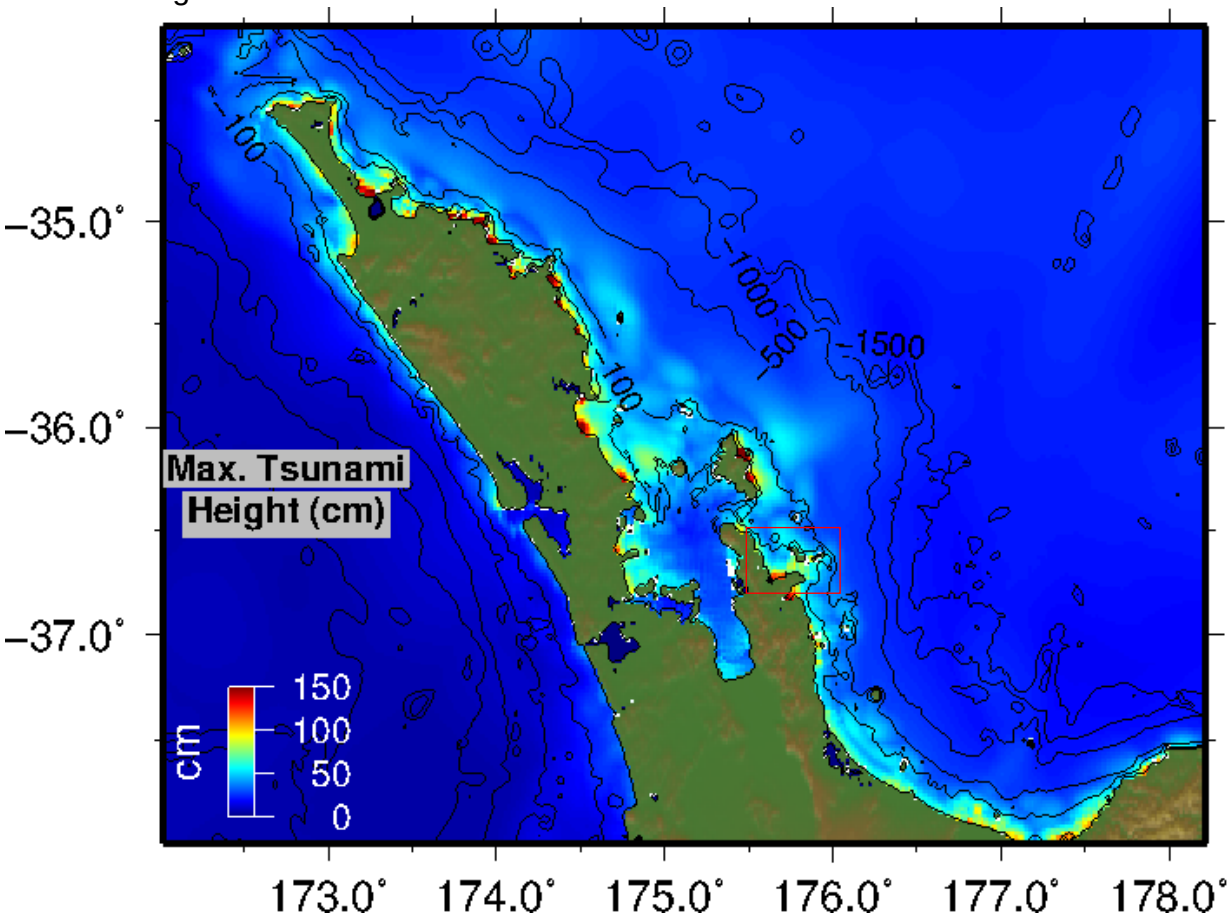


### *12.5 Chile North 2*

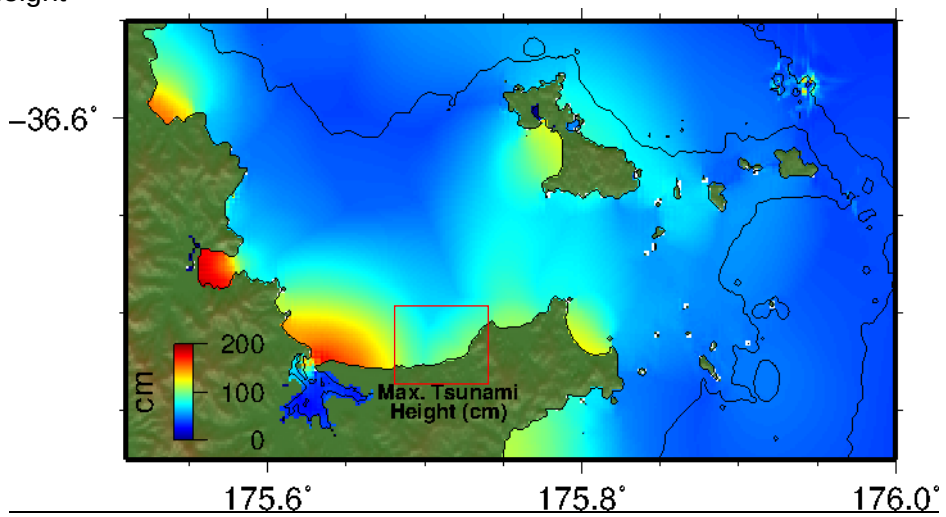
Propagation Model



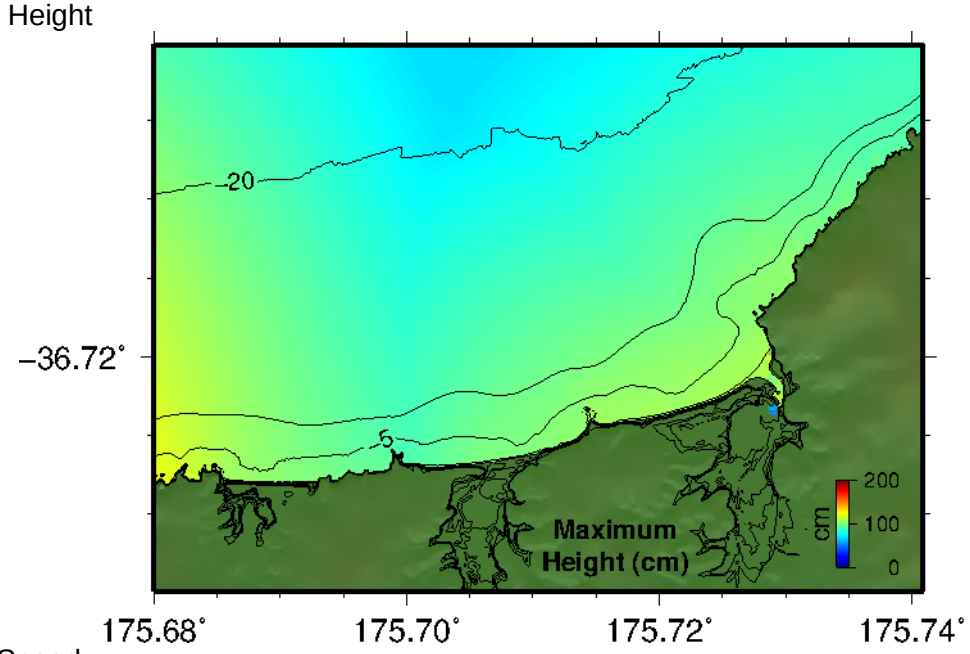

A Grid - Height



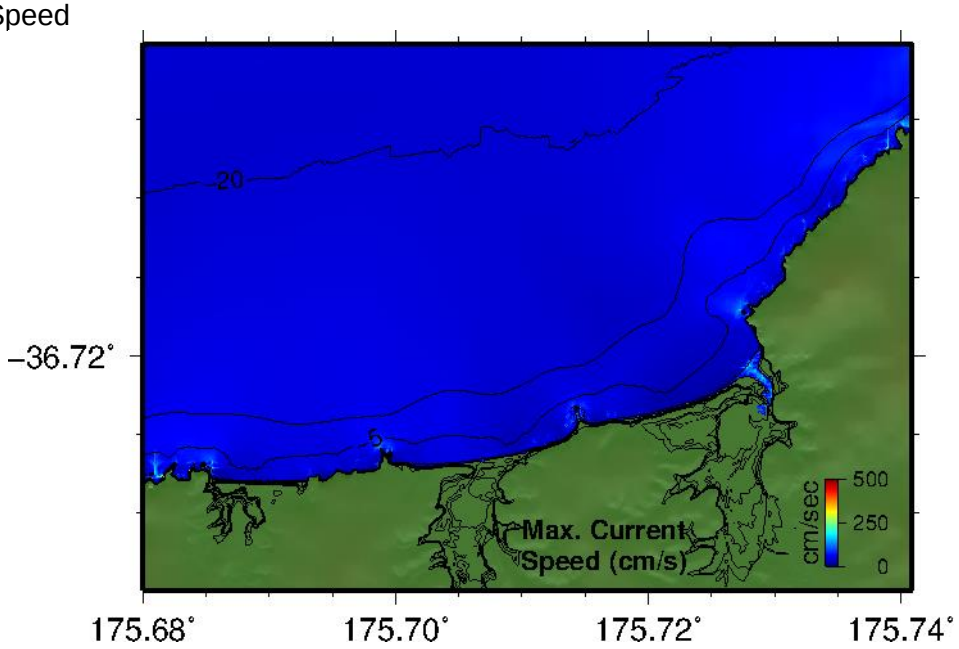
B Grid - Height




C Grid – Height

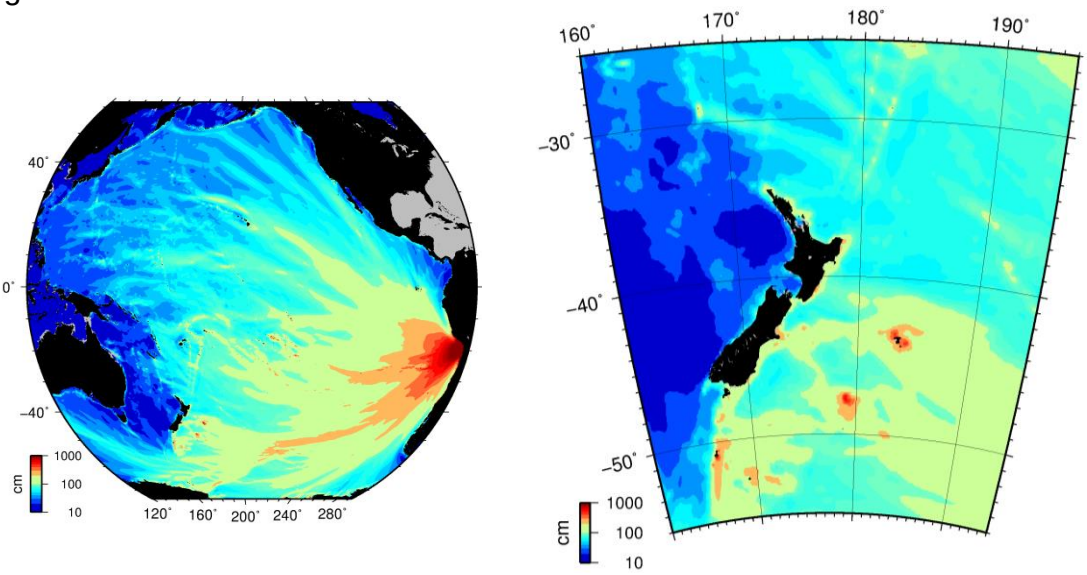



Current Speed

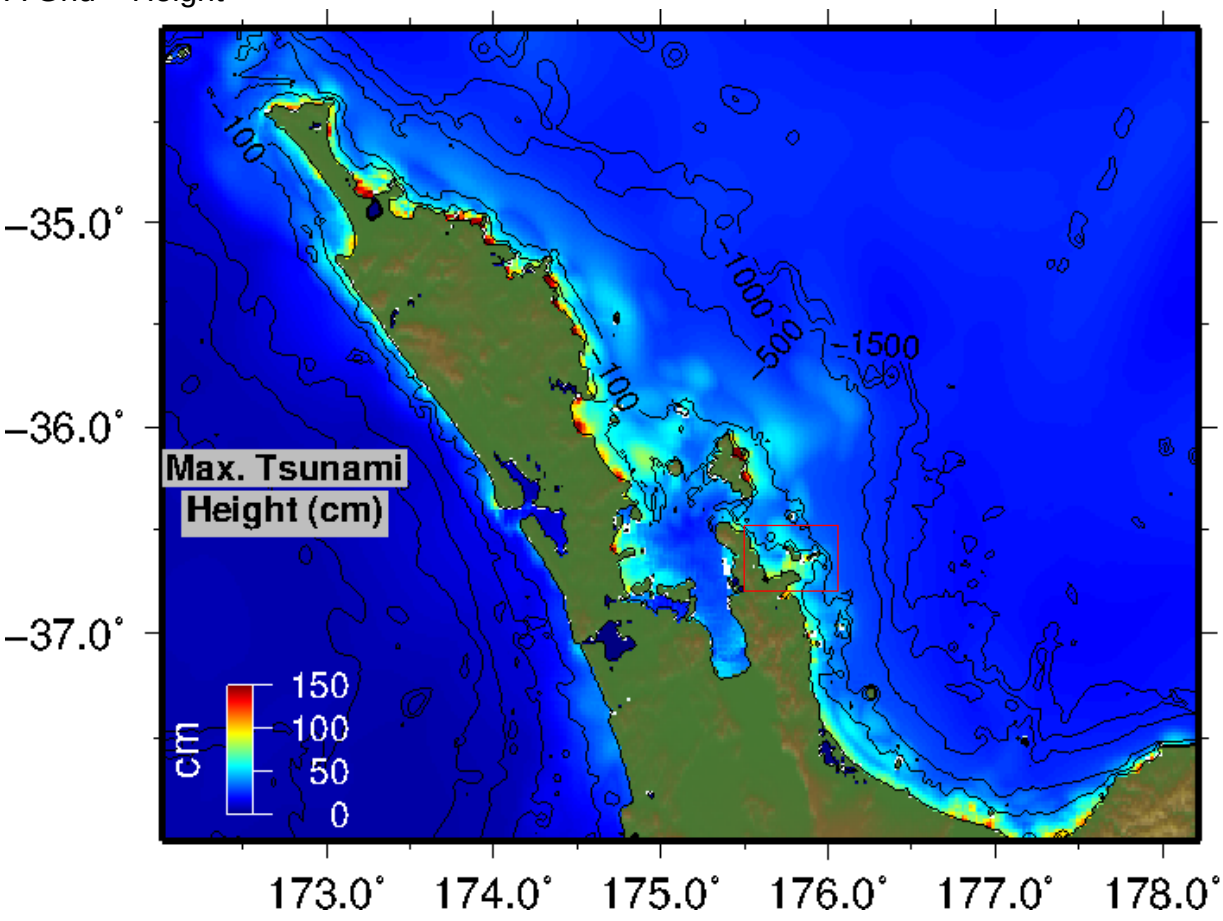


### *12.6 Chile North 3*

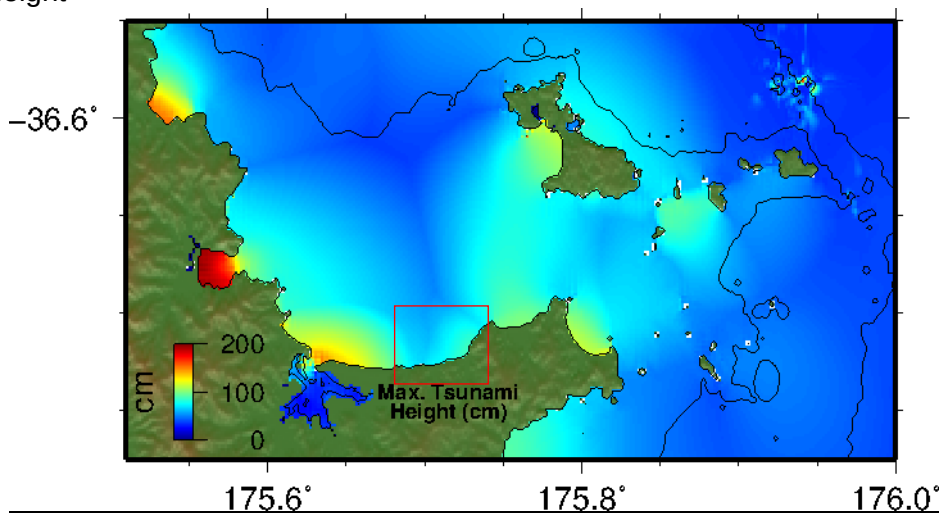
Propagation Model



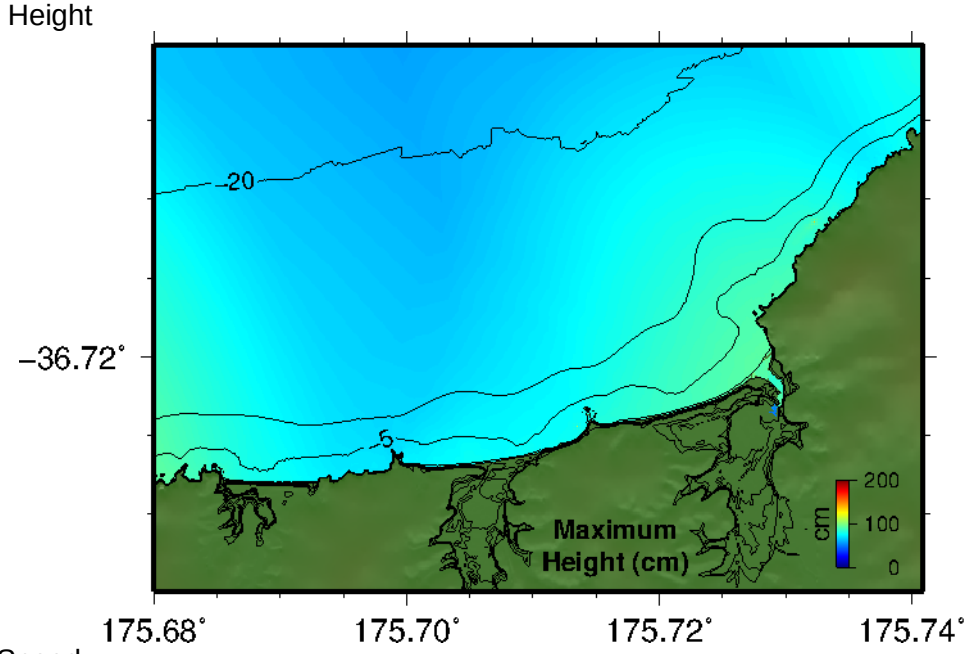

A Grid – Height



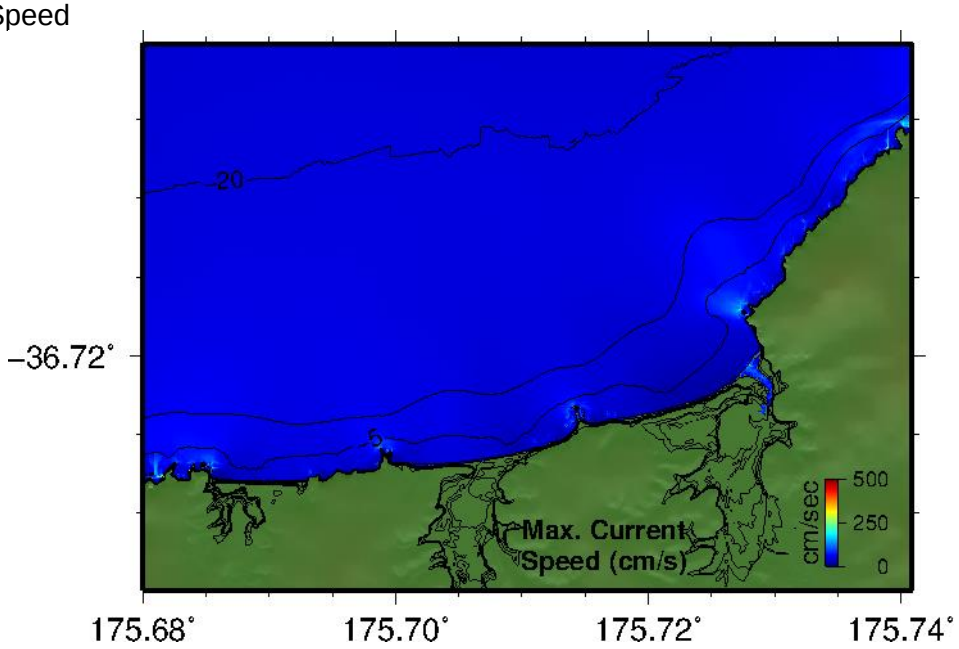
B Grid - Height




C Grid – Height

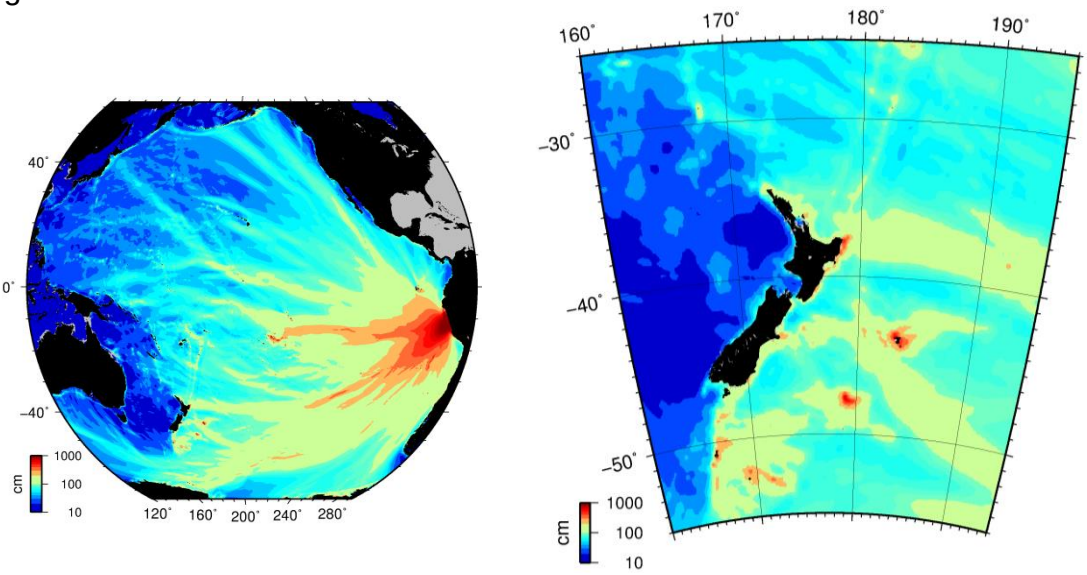



Current Speed

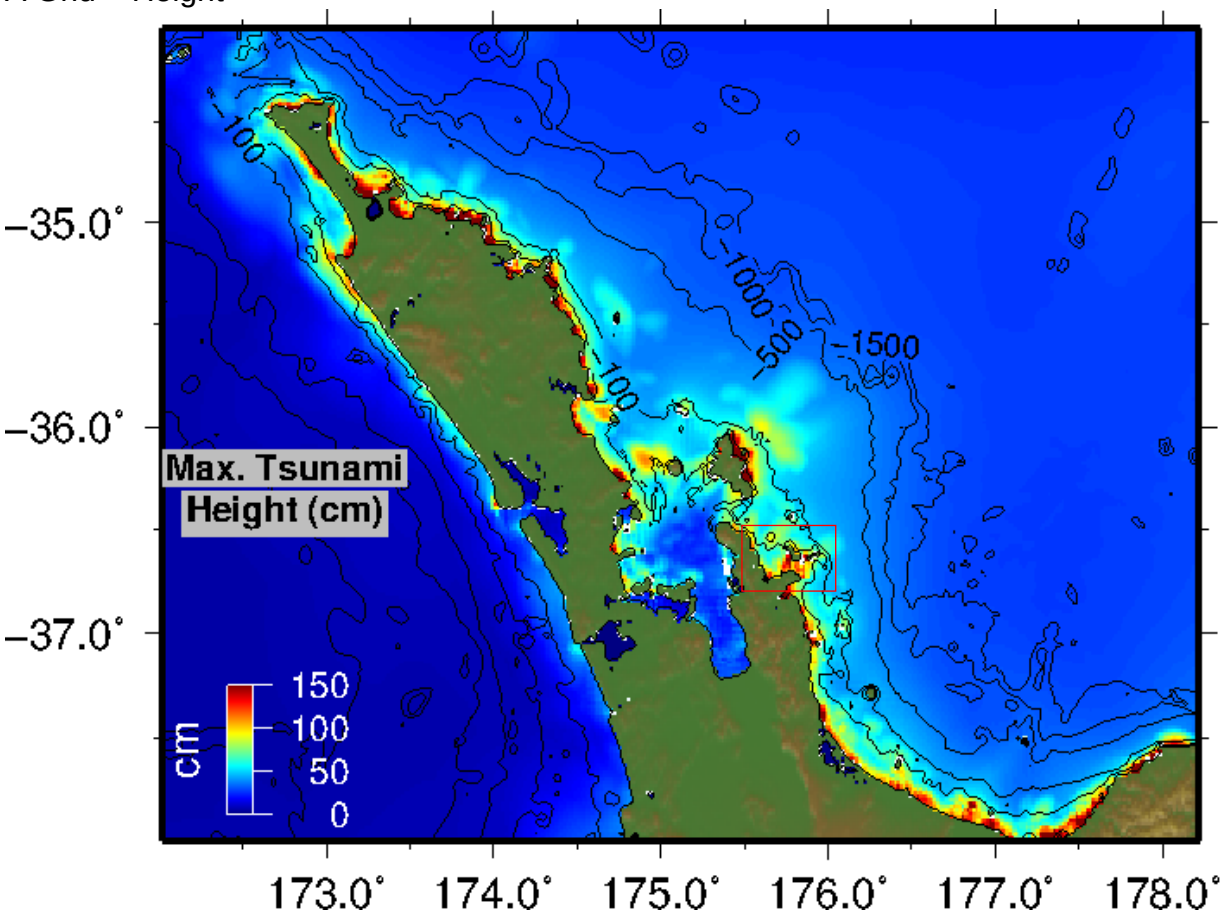


### *12.7 Central Peru*

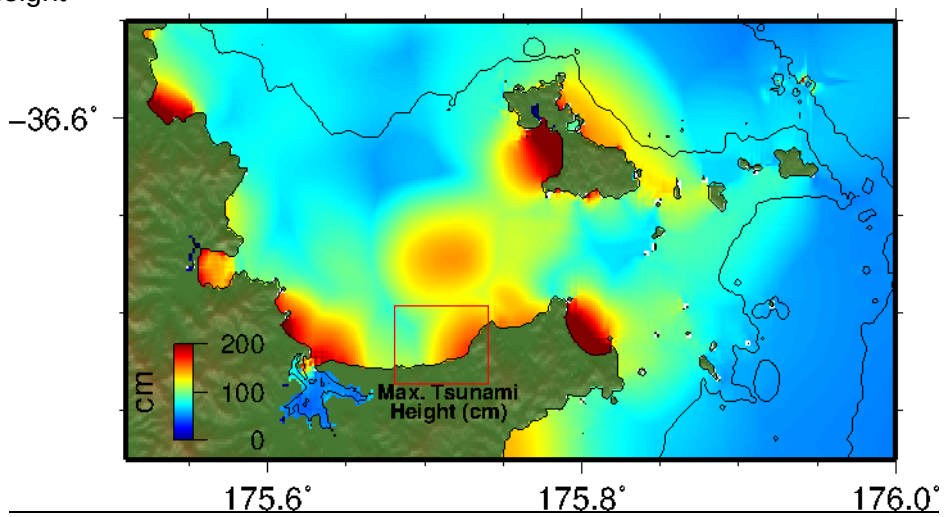
Propagation Model



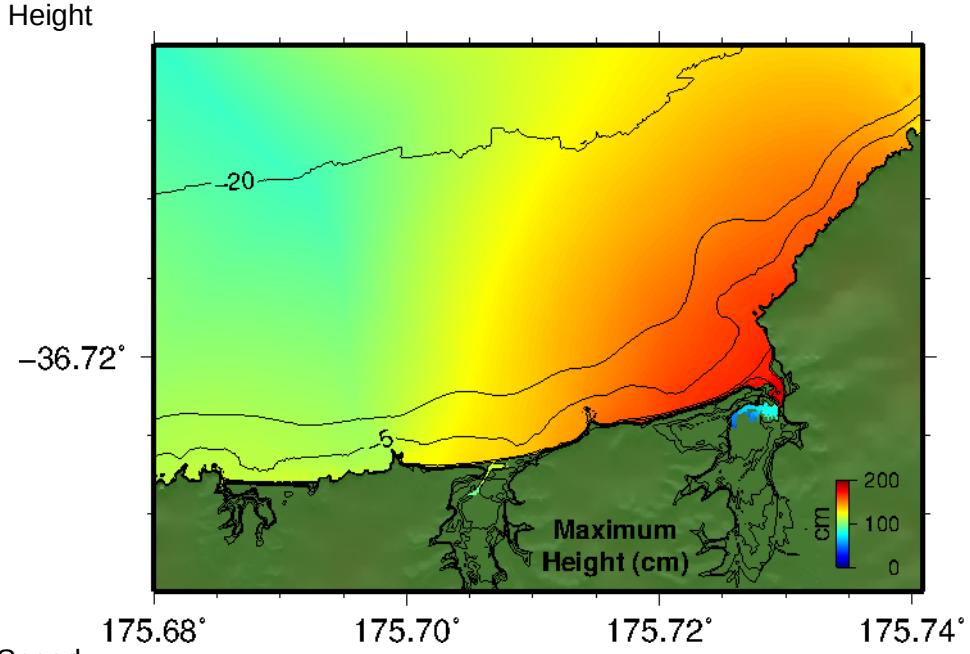

A Grid – Height



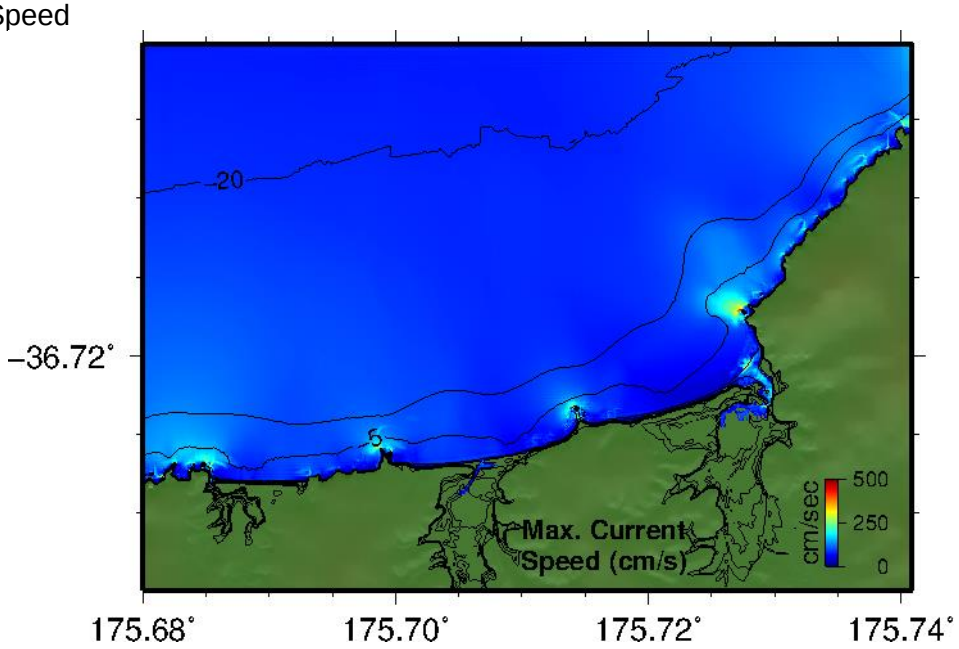
B Grid - Height




C Grid – Height



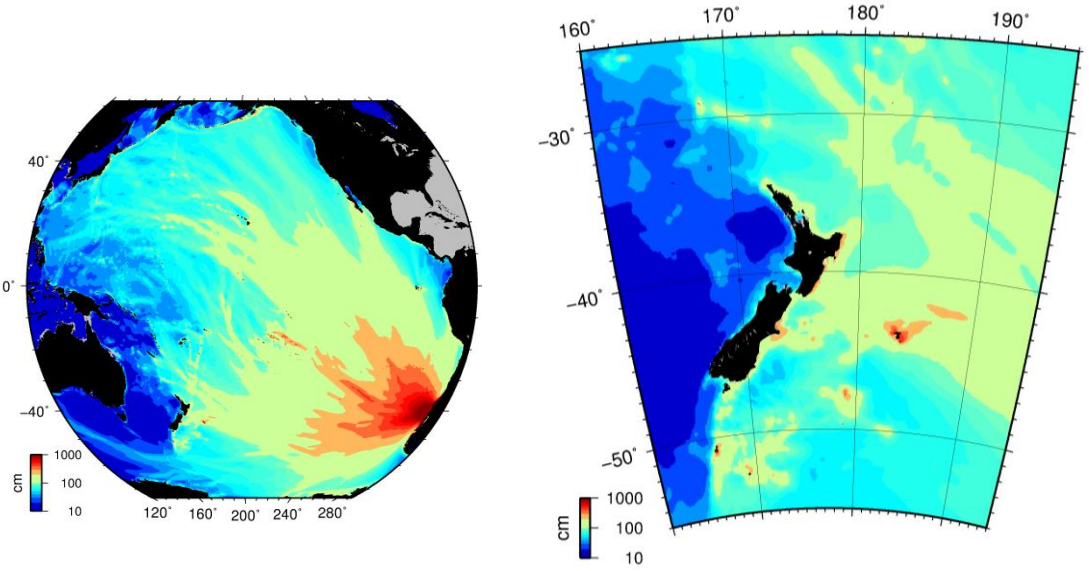

Current Speed



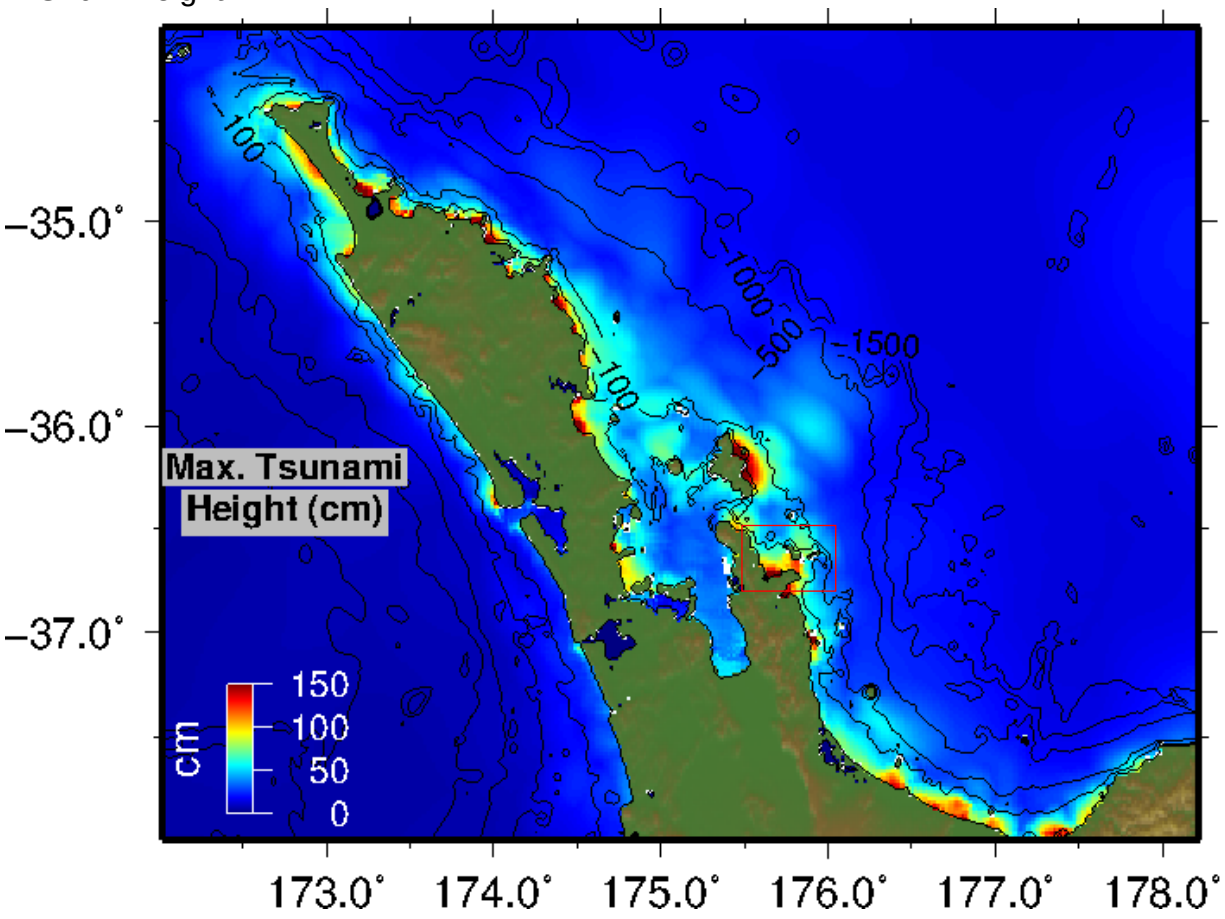
# 13 APPENDIX 13 – OPITO BAY: FAR-FIELD SOURCE TSUNAMI

## *13.1 Valdivia, Chile 1960*

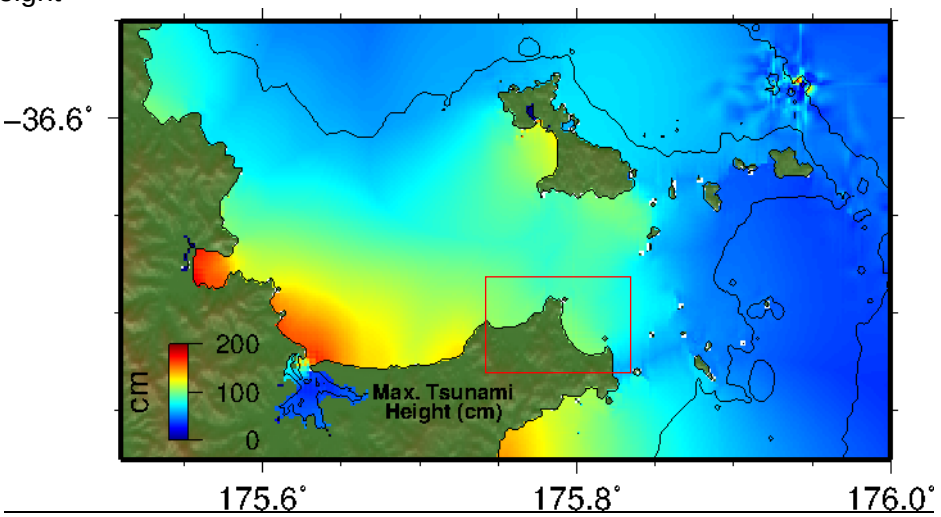
Propagation Model



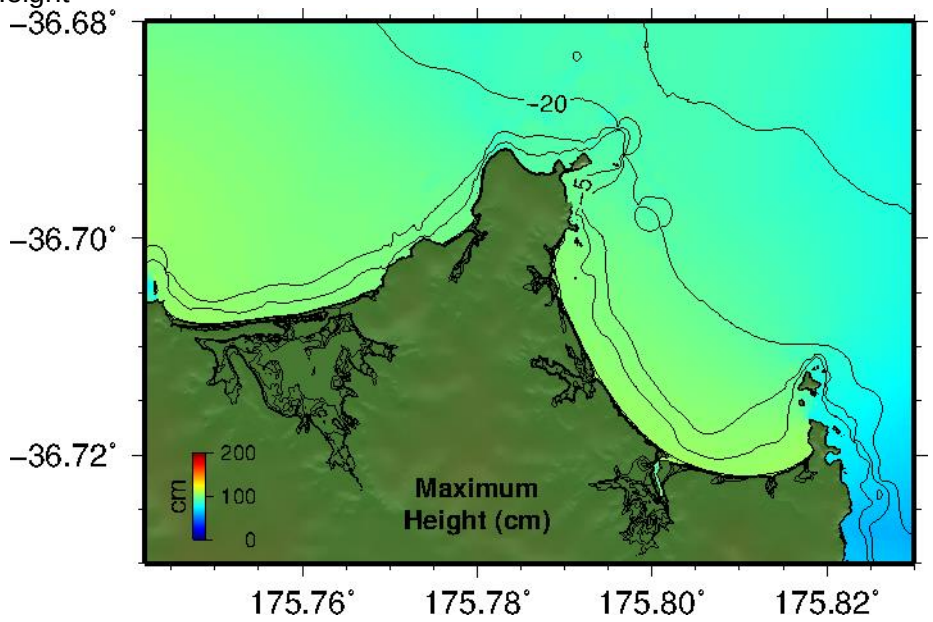

A Grid – Height



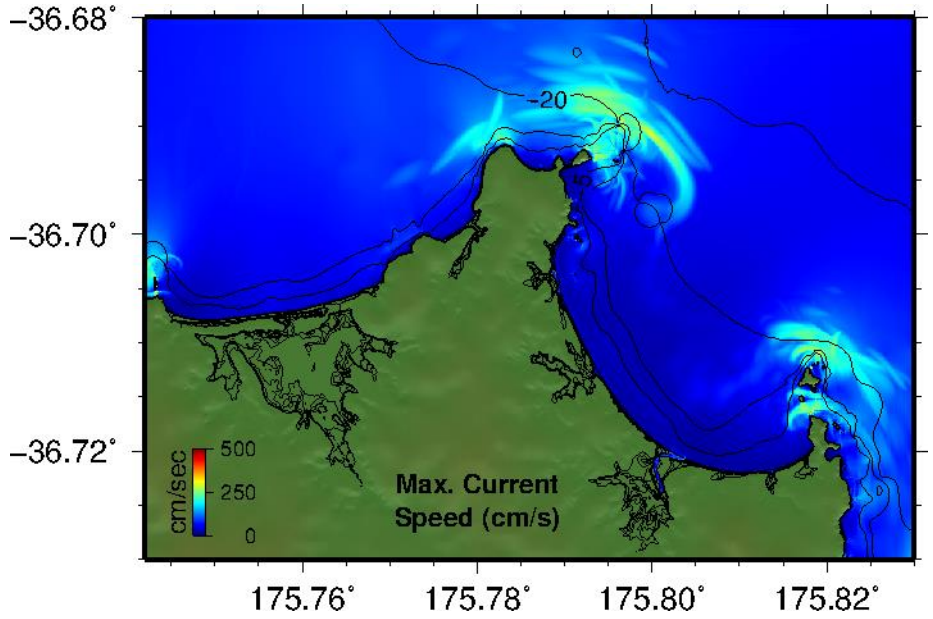
B Grid - Height




C Grid – Height

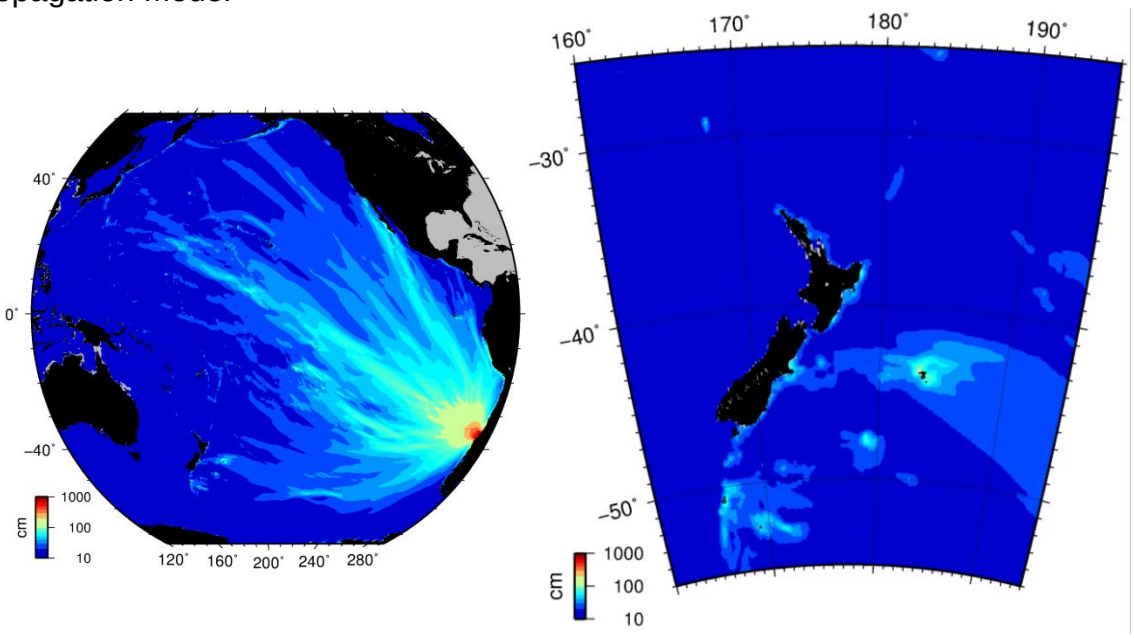



Current Speed

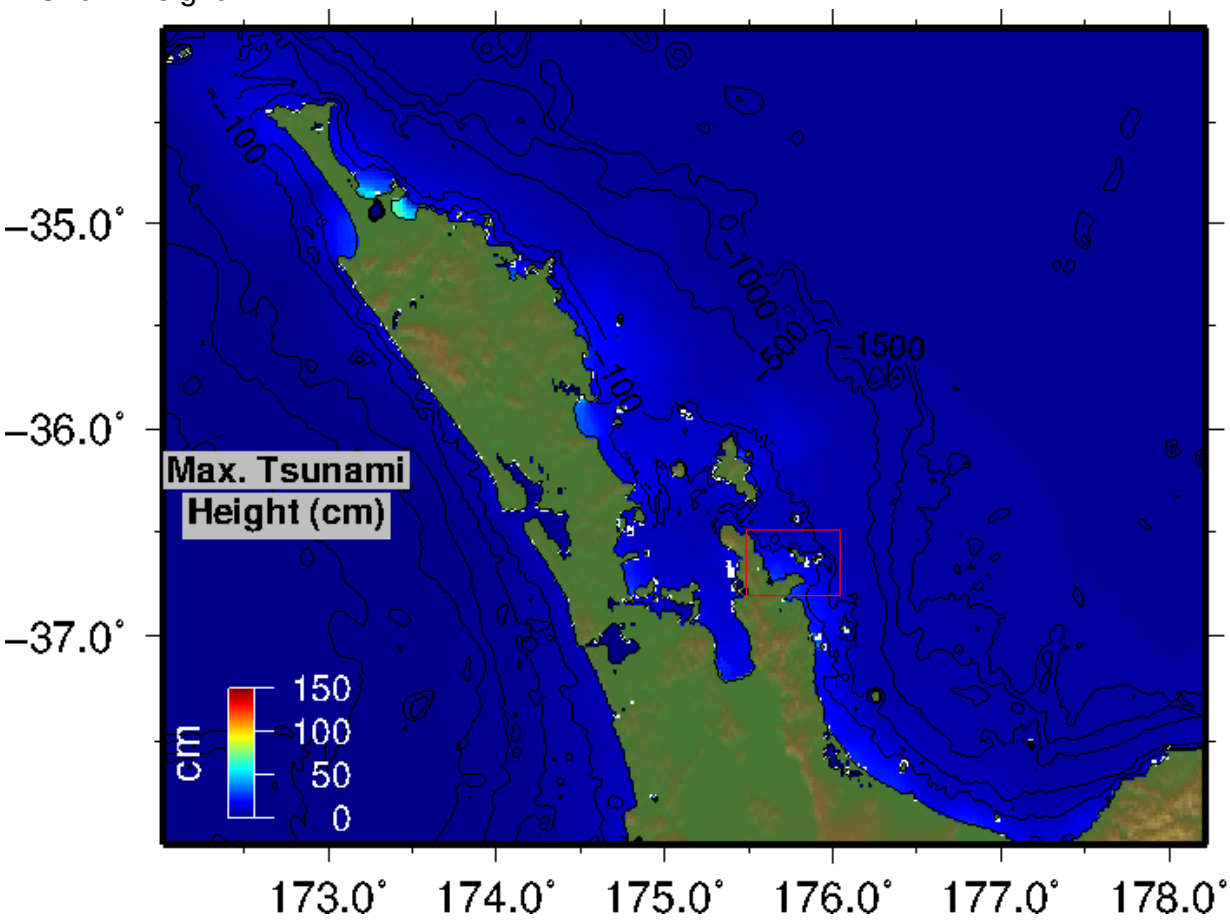


### *13.2 Maule, Chile 2010*

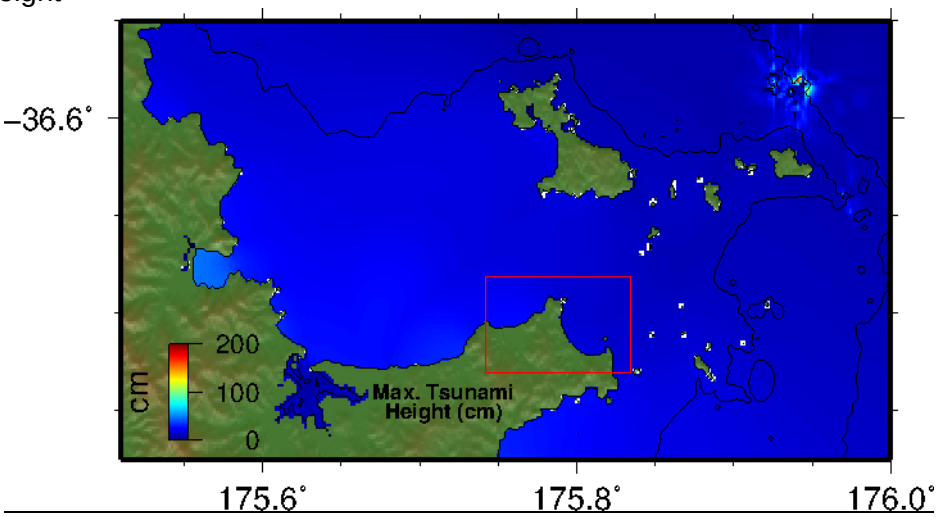
Propagation Model



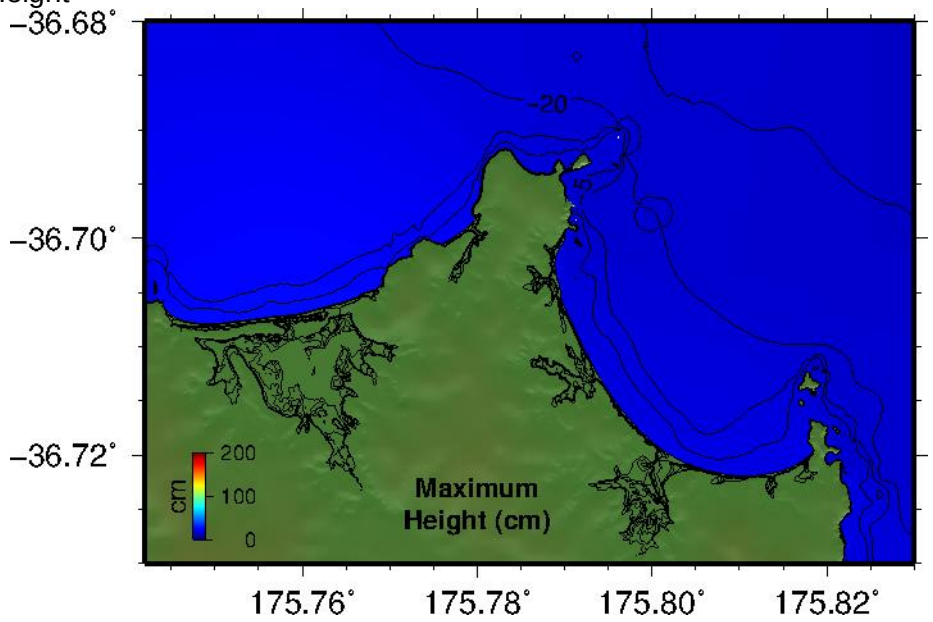

A Grid – Height



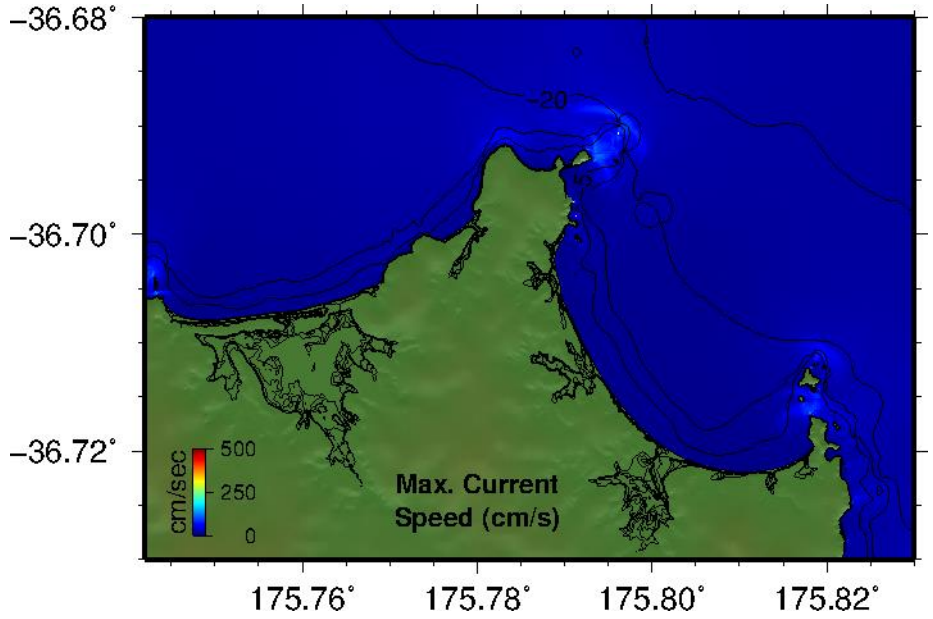
B Grid - Height




C Grid – Height

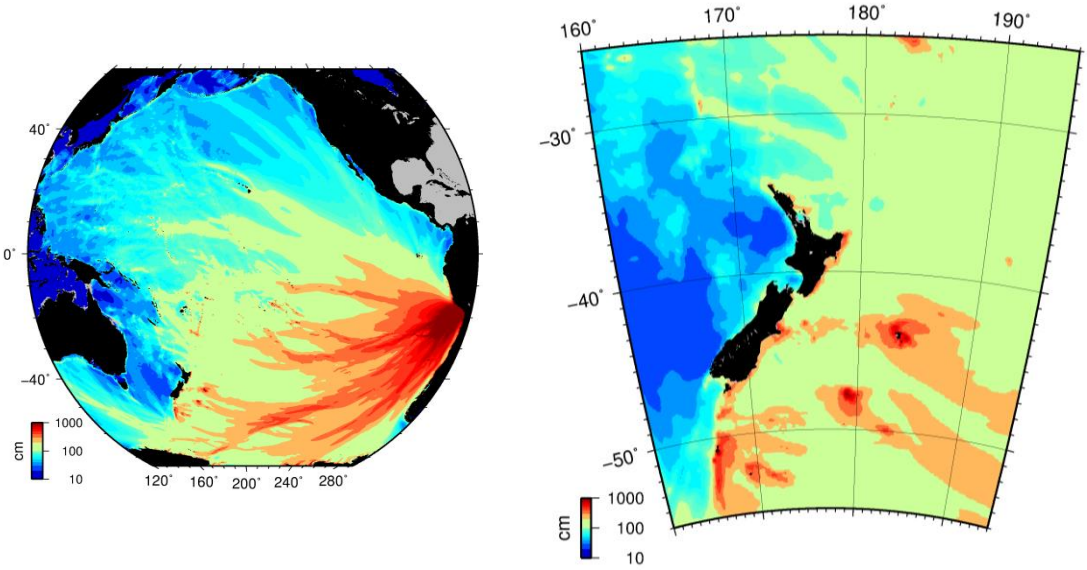



Current Speed

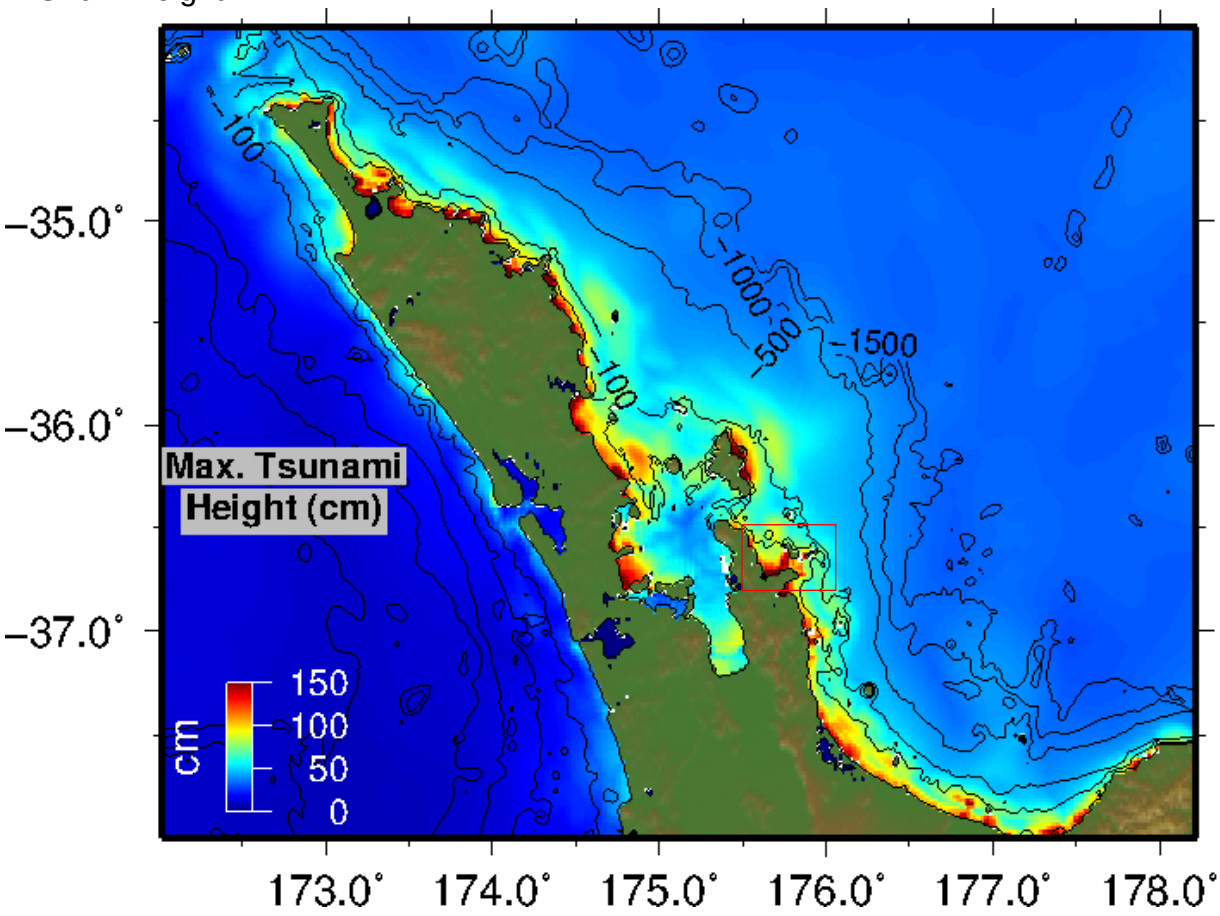


### *13.3 Arica, 1868*

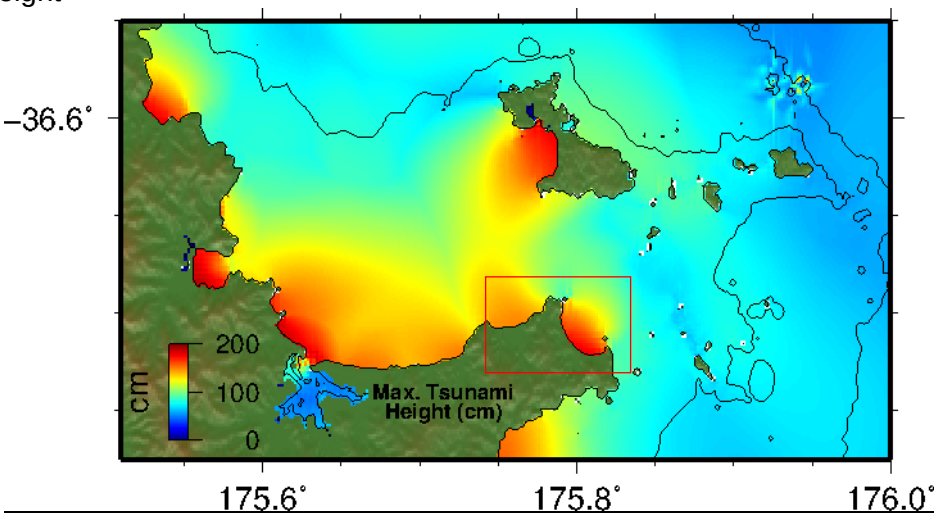
Propagation Model



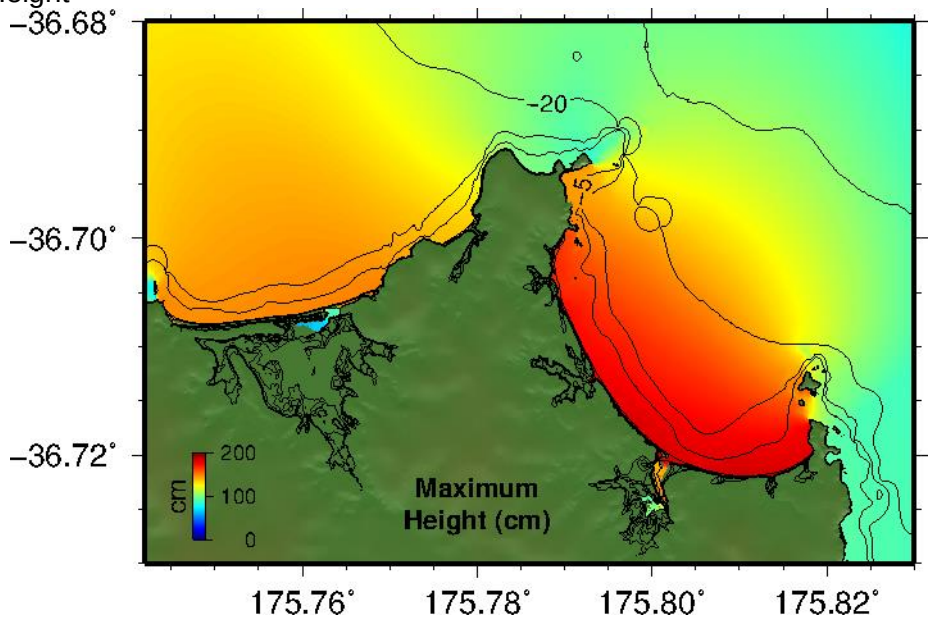

A Grid – Height



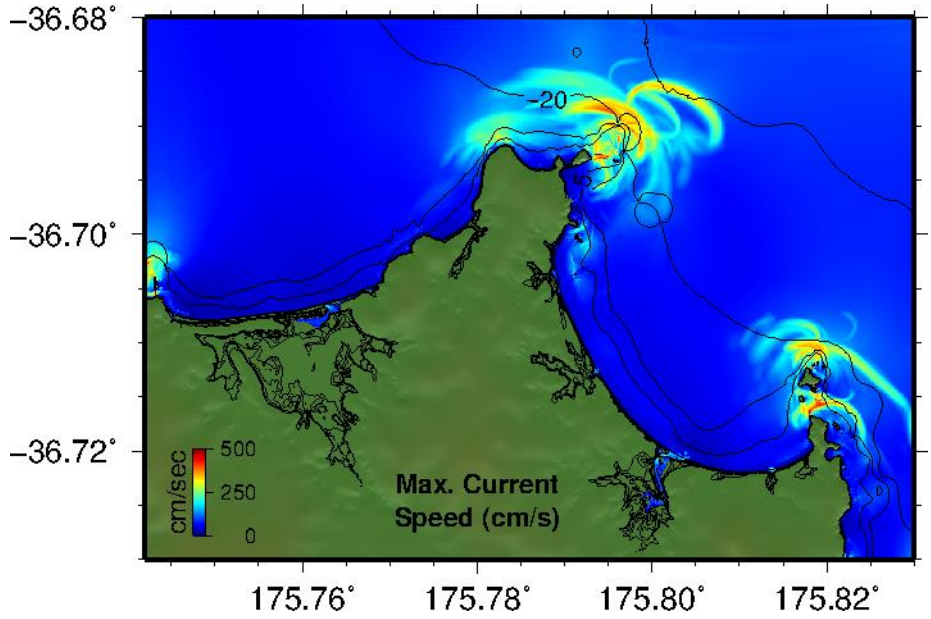
B Grid - Height




C Grid – Height

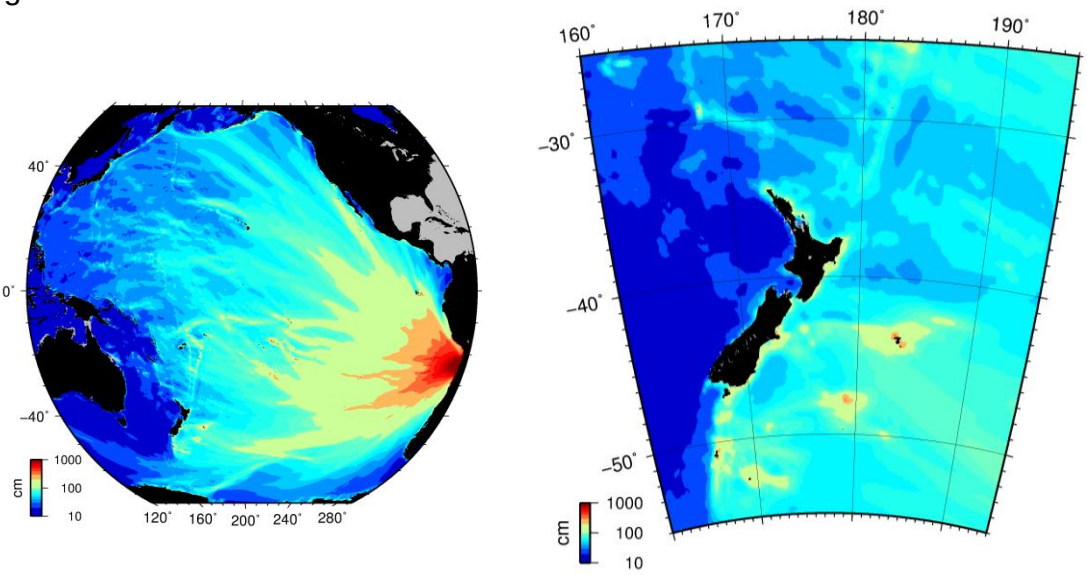



Current Speed

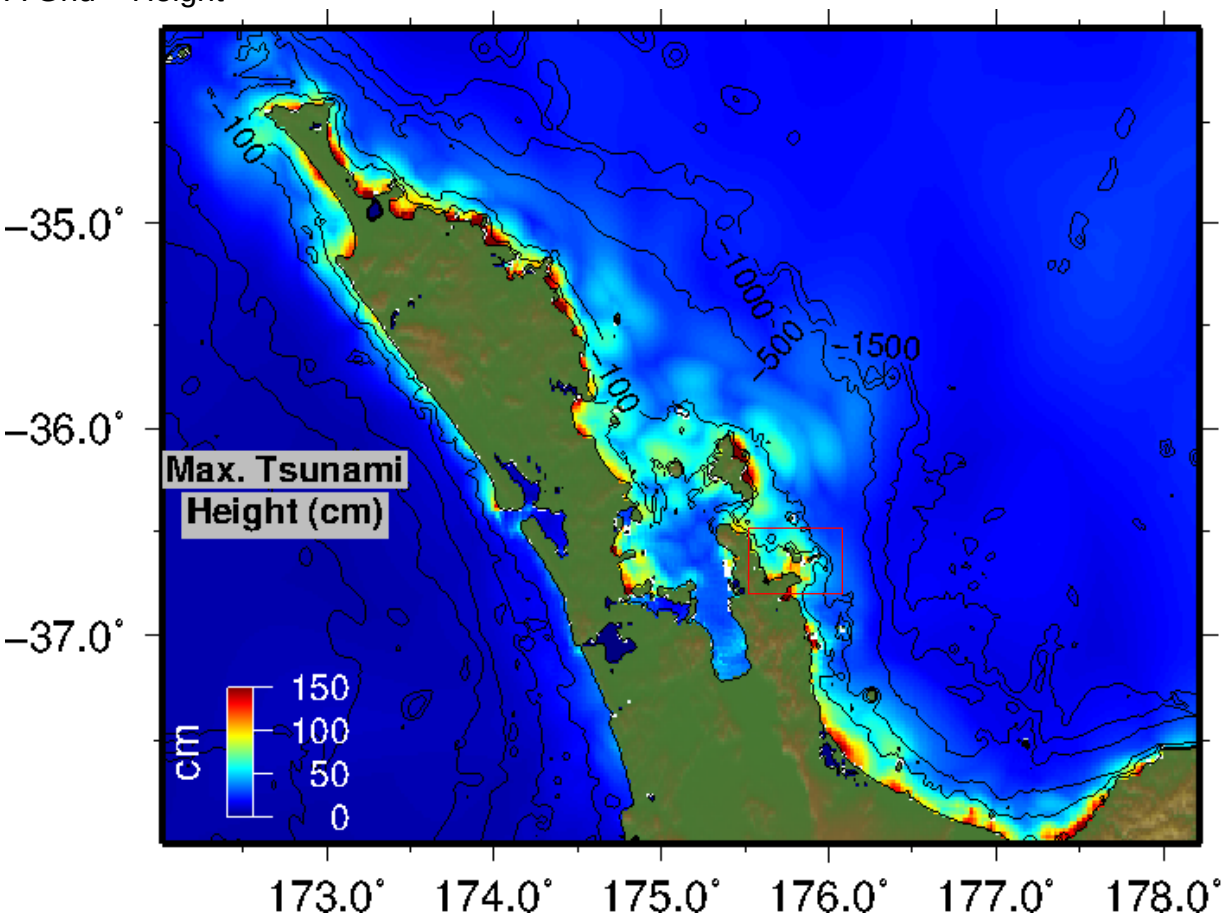


### *13.4 Chile North 1*

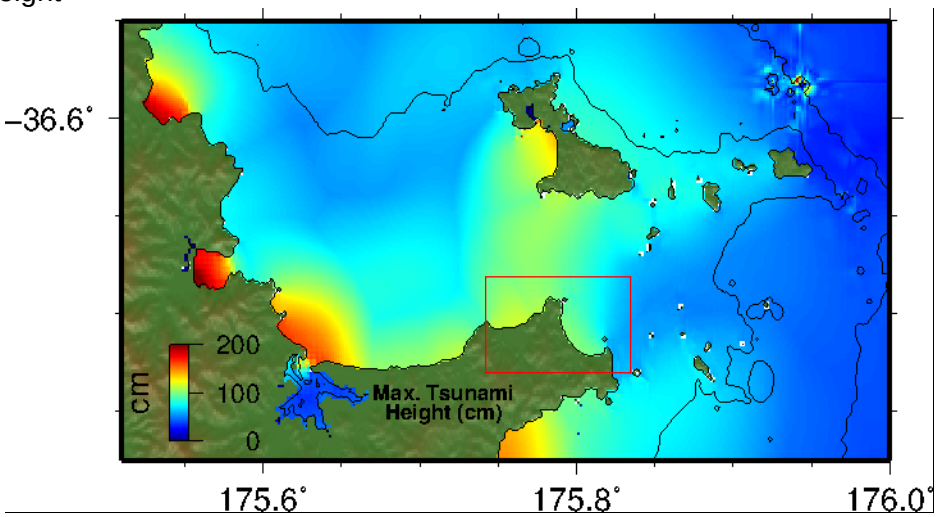
Propagation Model



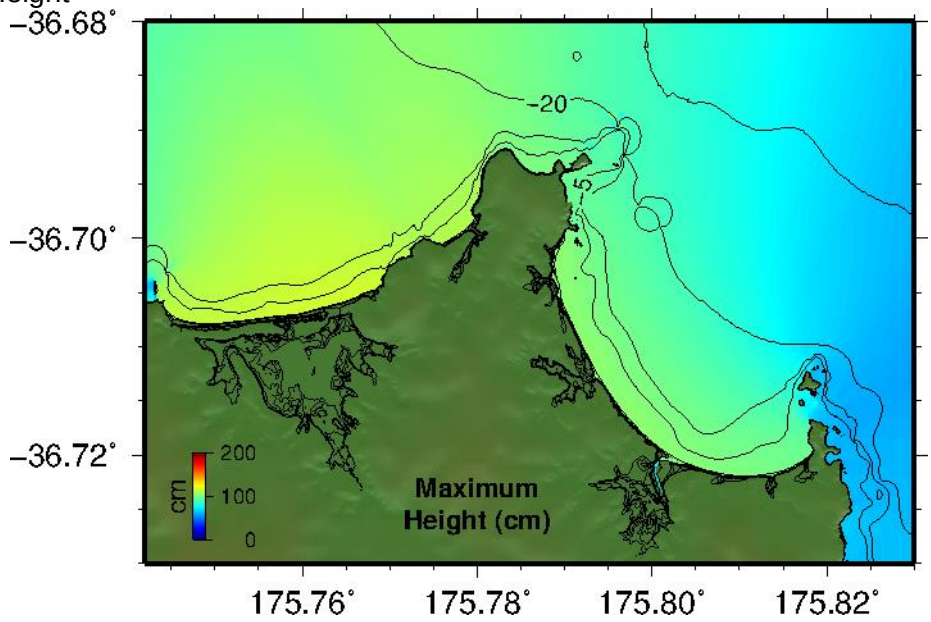

A Grid – Height



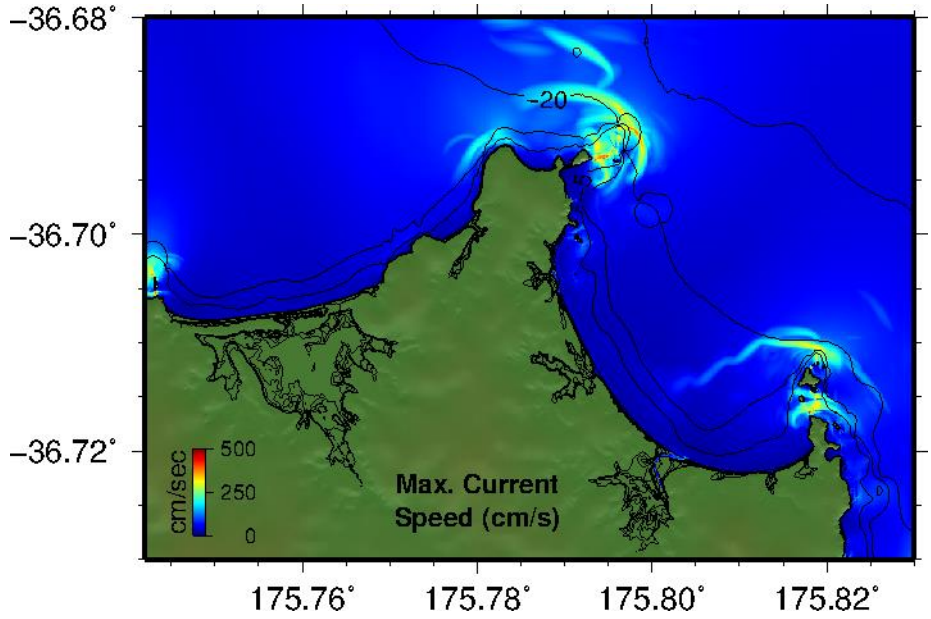
B Grid - Height




C Grid – Height

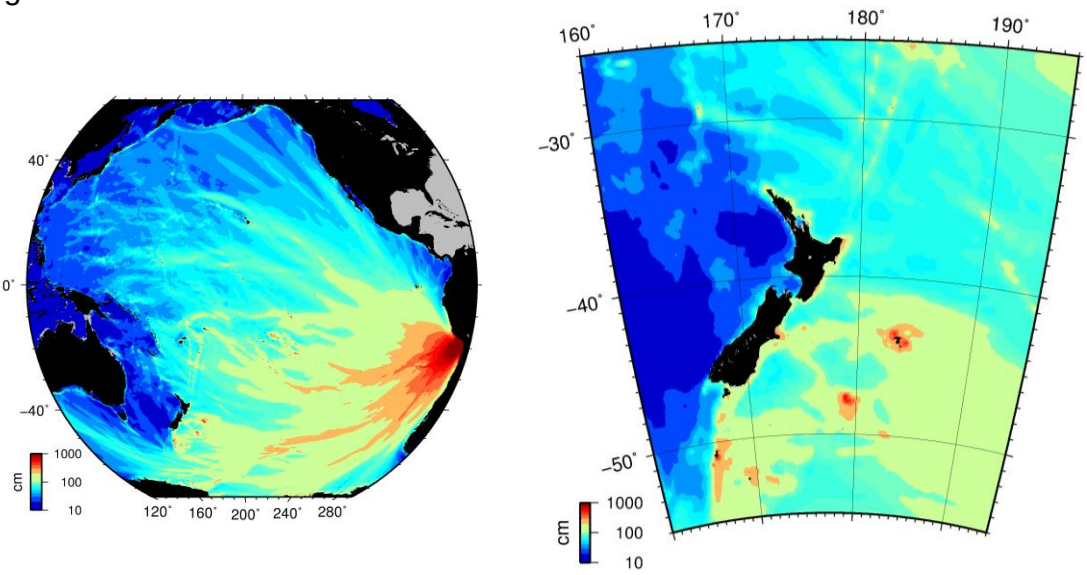



Current Speed

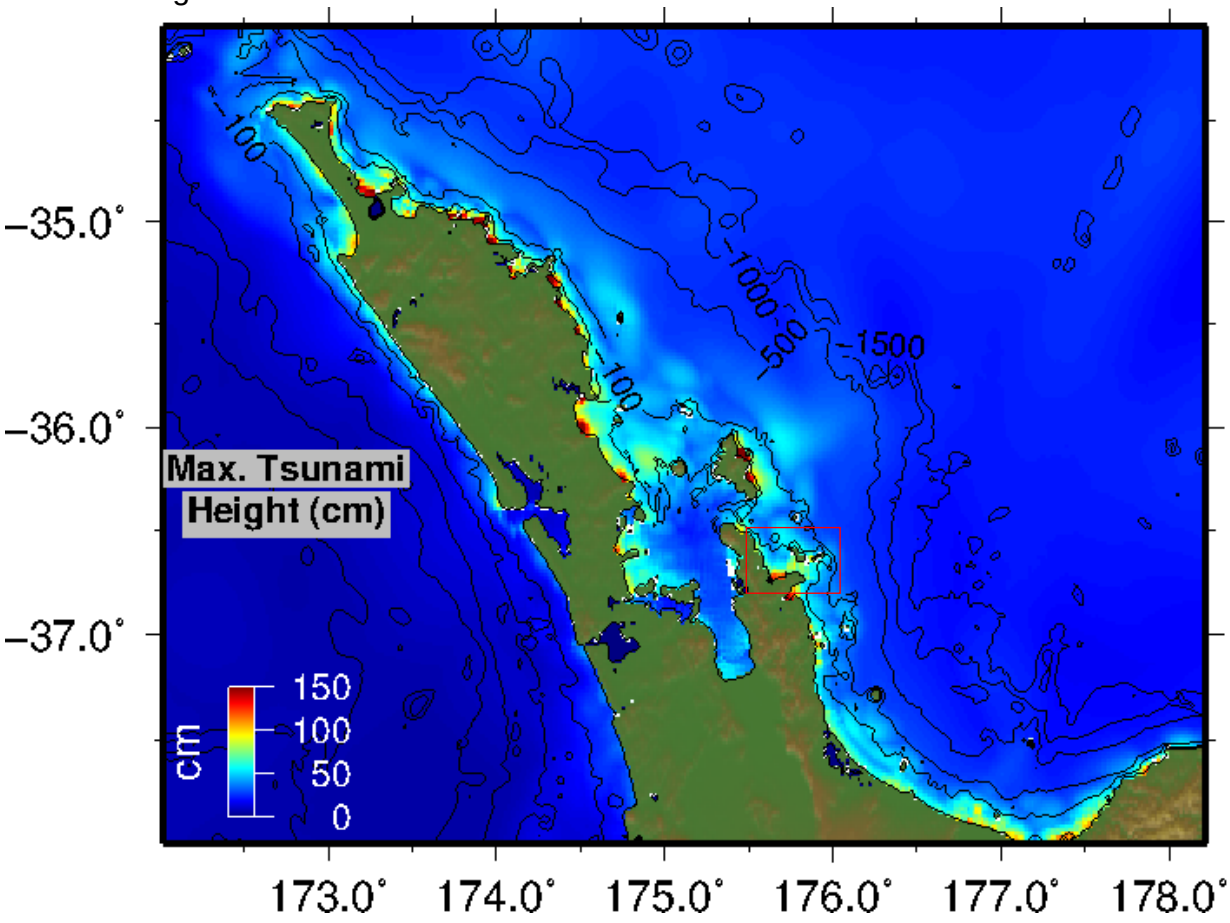


### *13.5 Chile North 2*

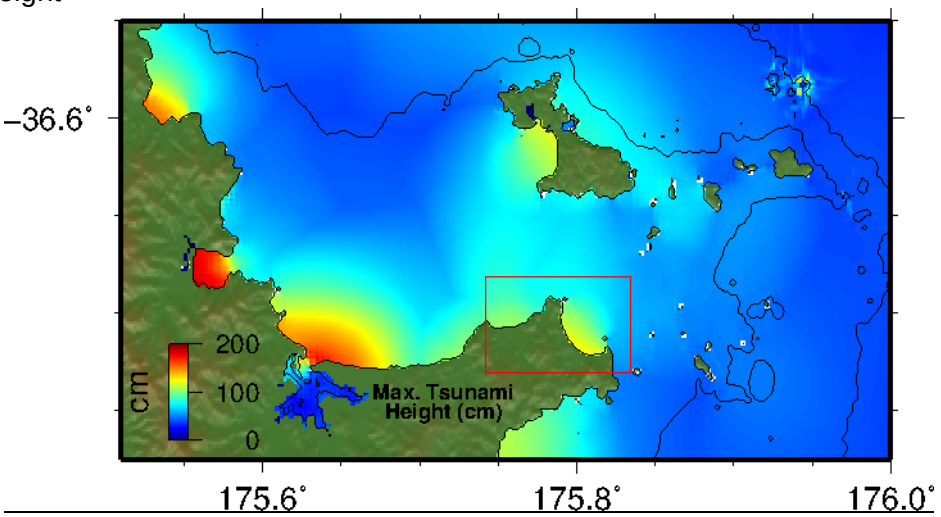
Propagation Model



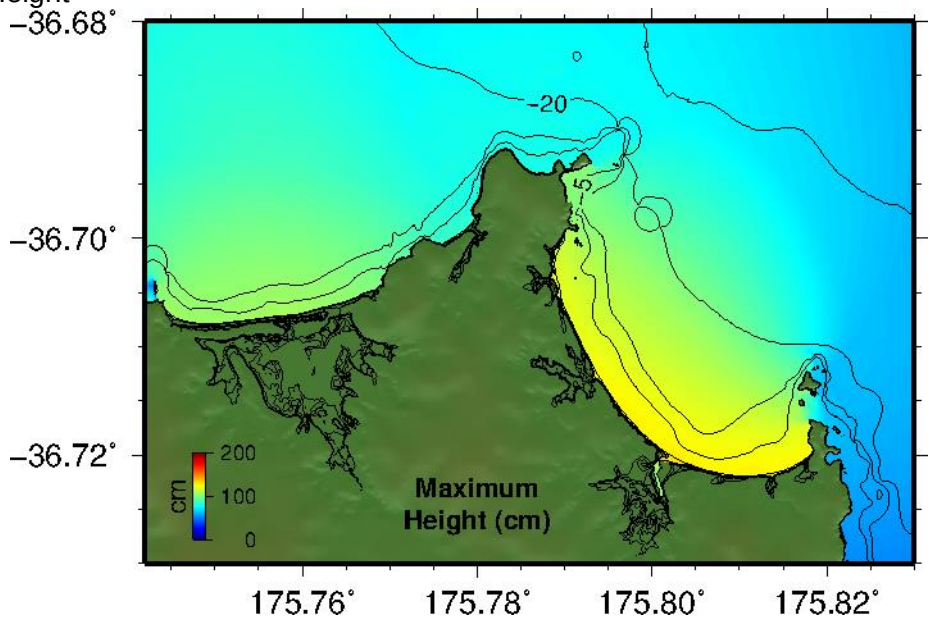

A Grid - Height



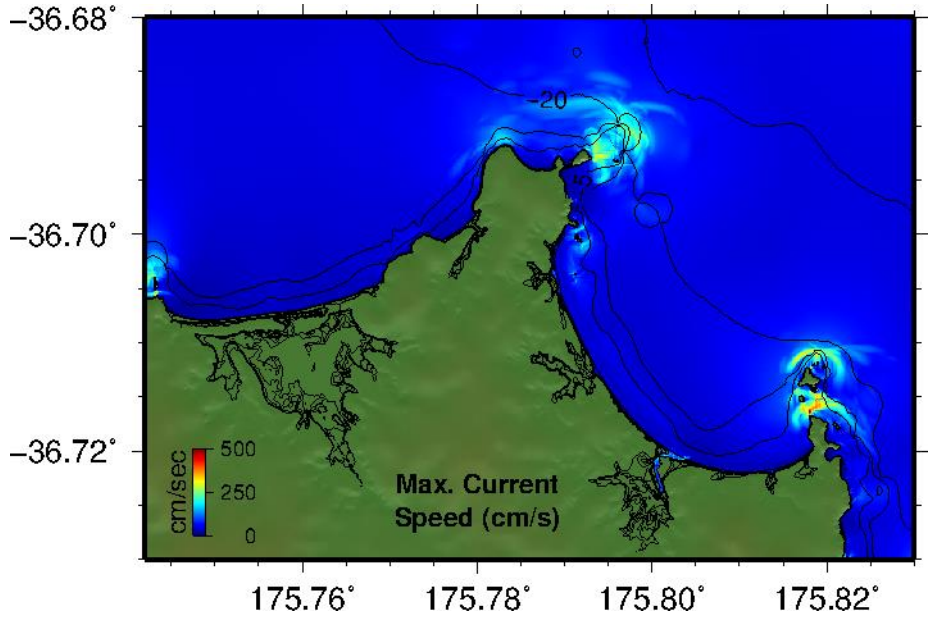
B Grid - Height




C Grid – Height

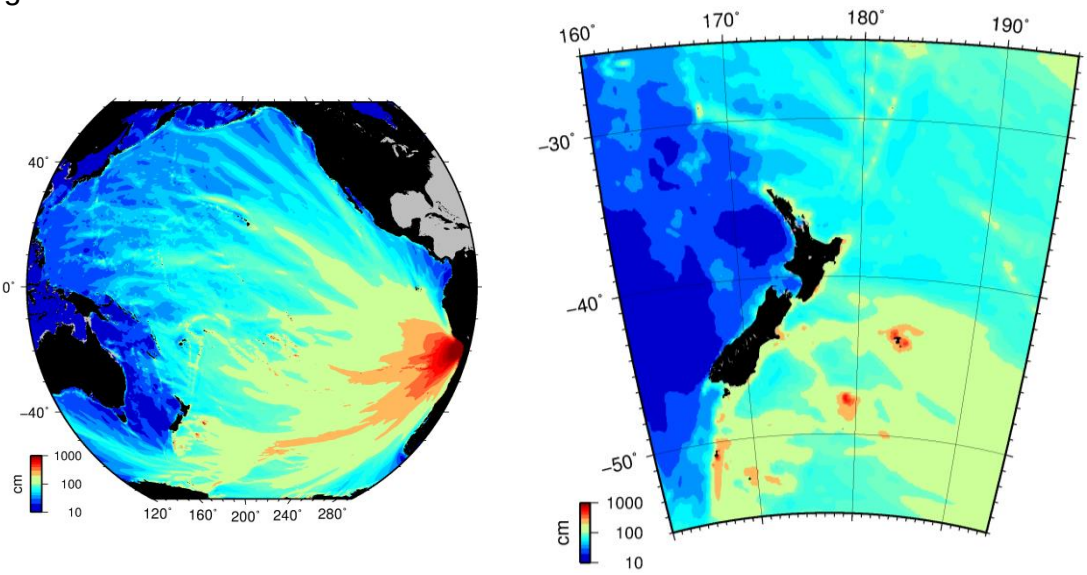



Current Speed

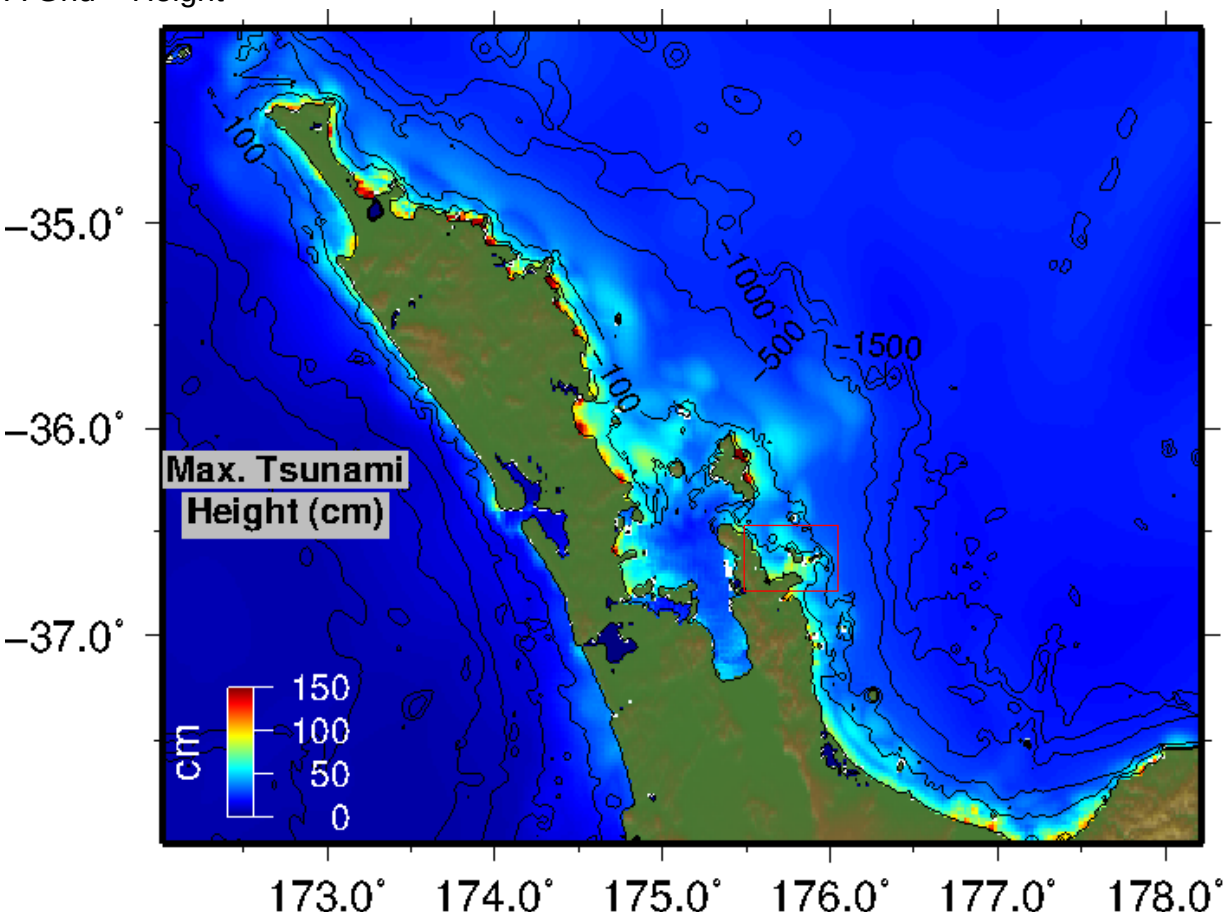


### *13.6 Chile North 3*

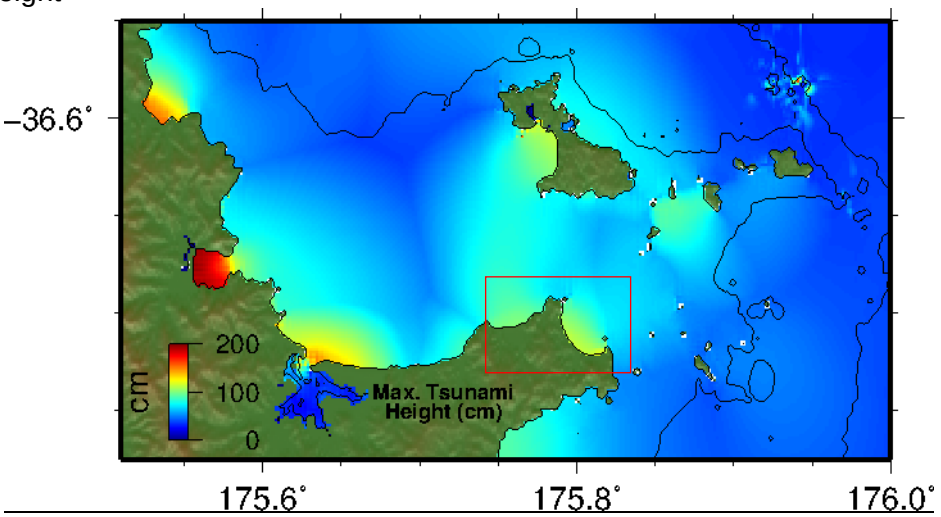
Propagation Model



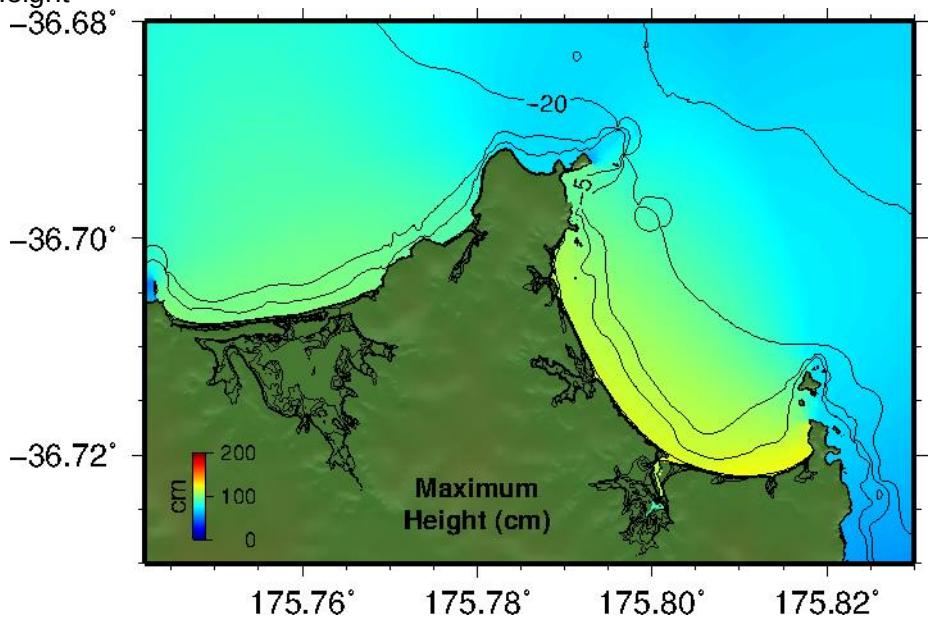

A Grid – Height



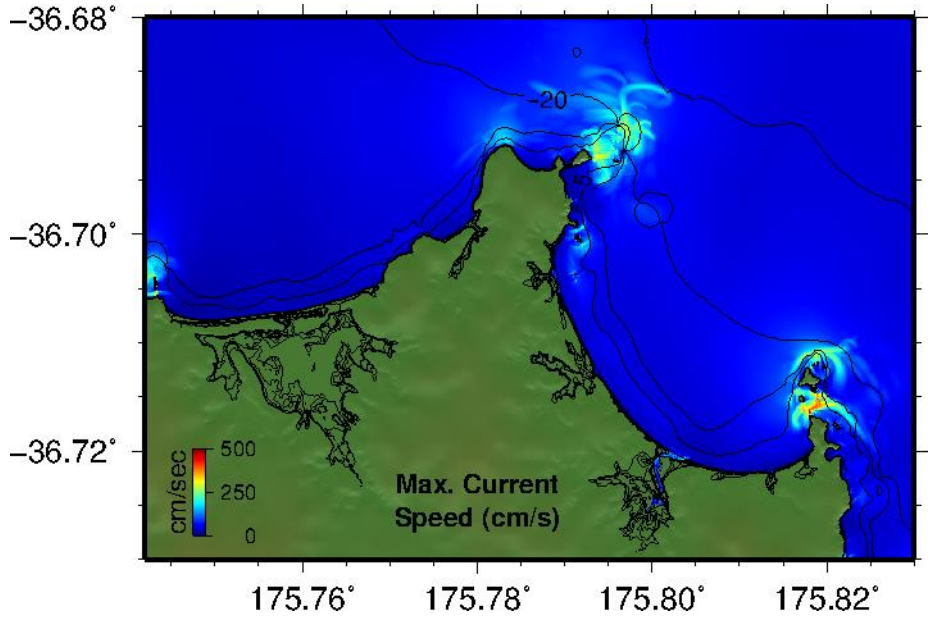
B Grid - Height




C Grid – Height

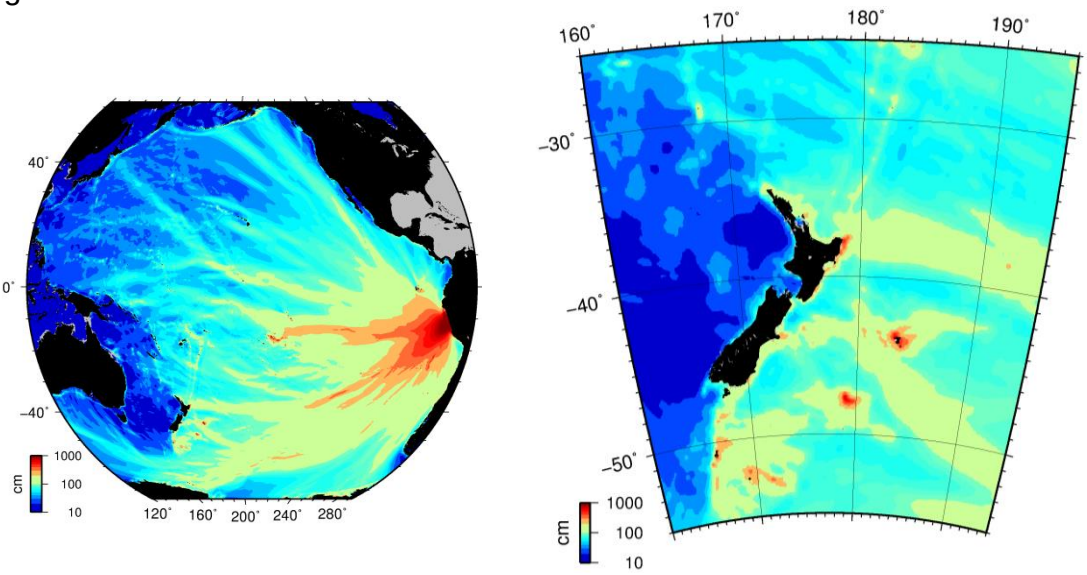



Current Speed

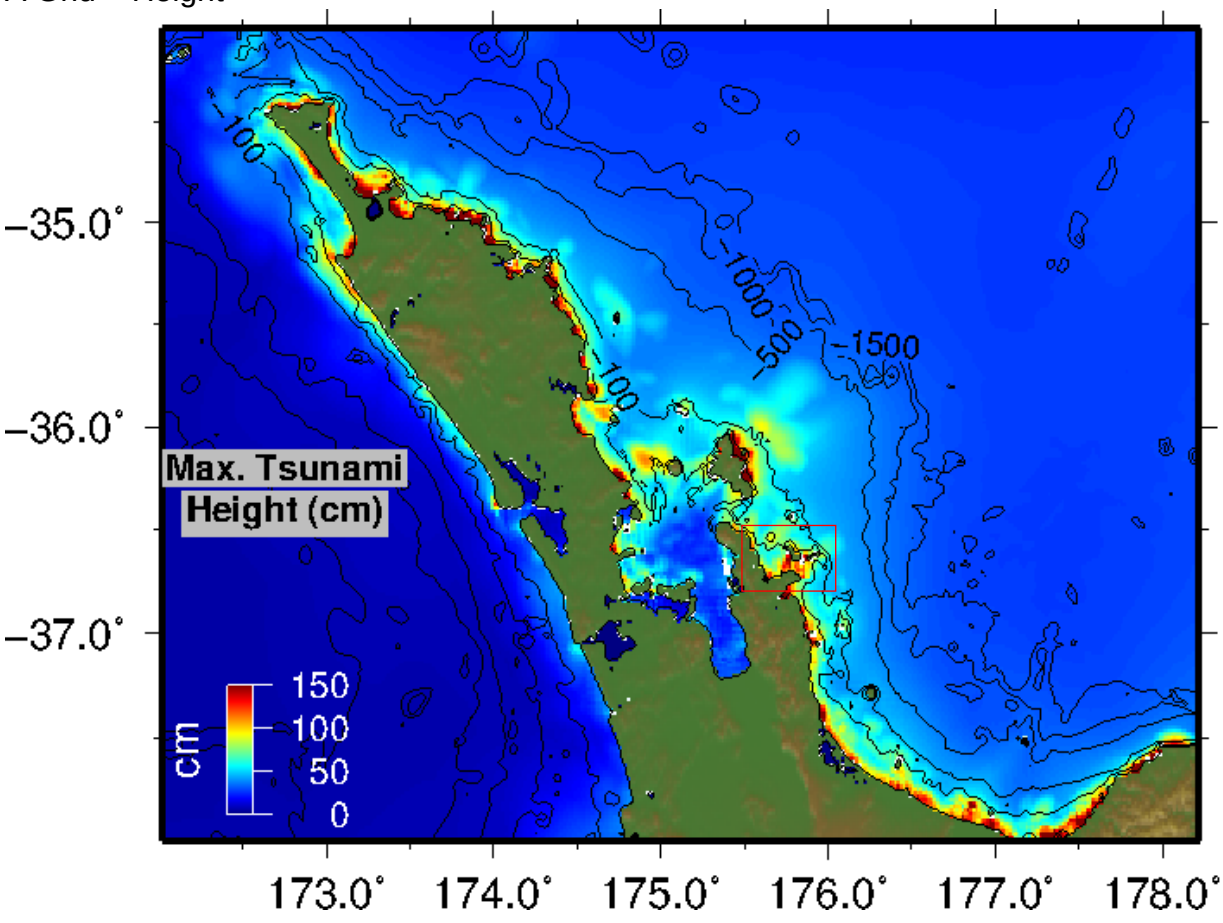


### *13.7 Central Peru*

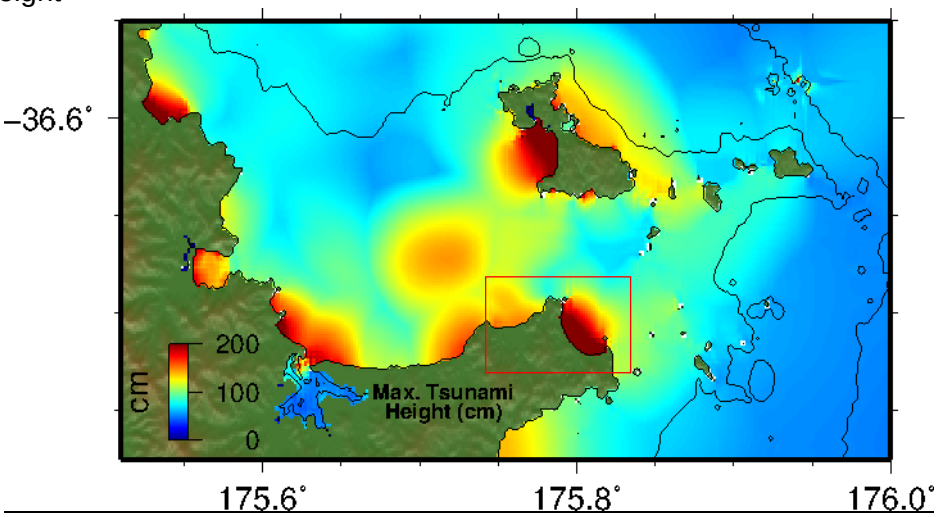
Propagation Model



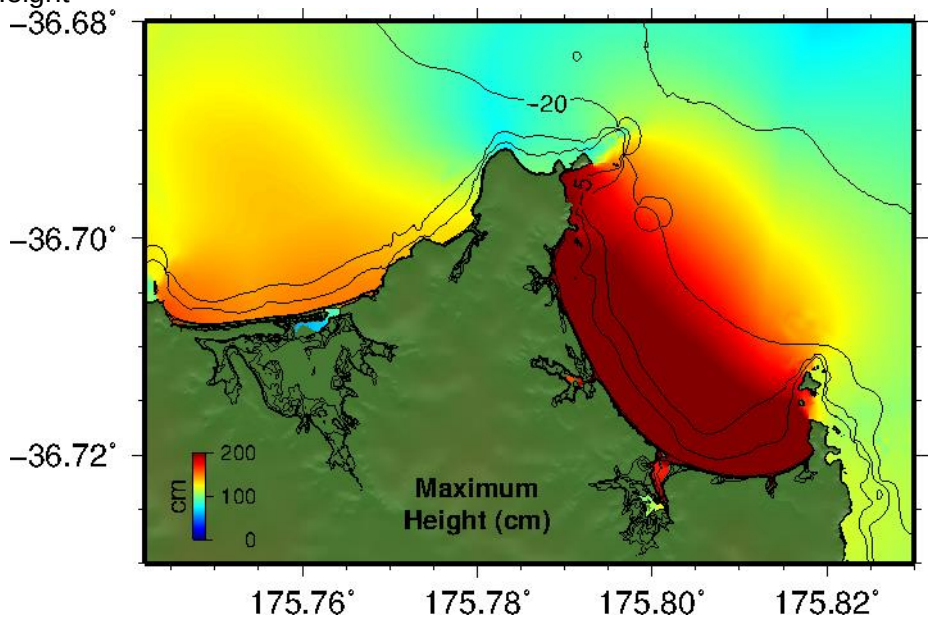

A Grid – Height



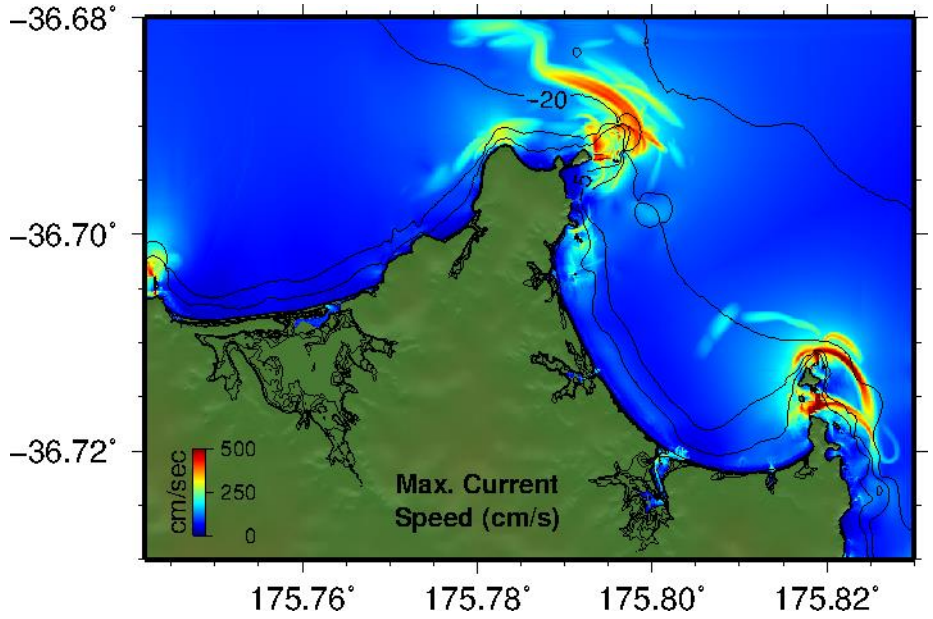
B Grid - Height



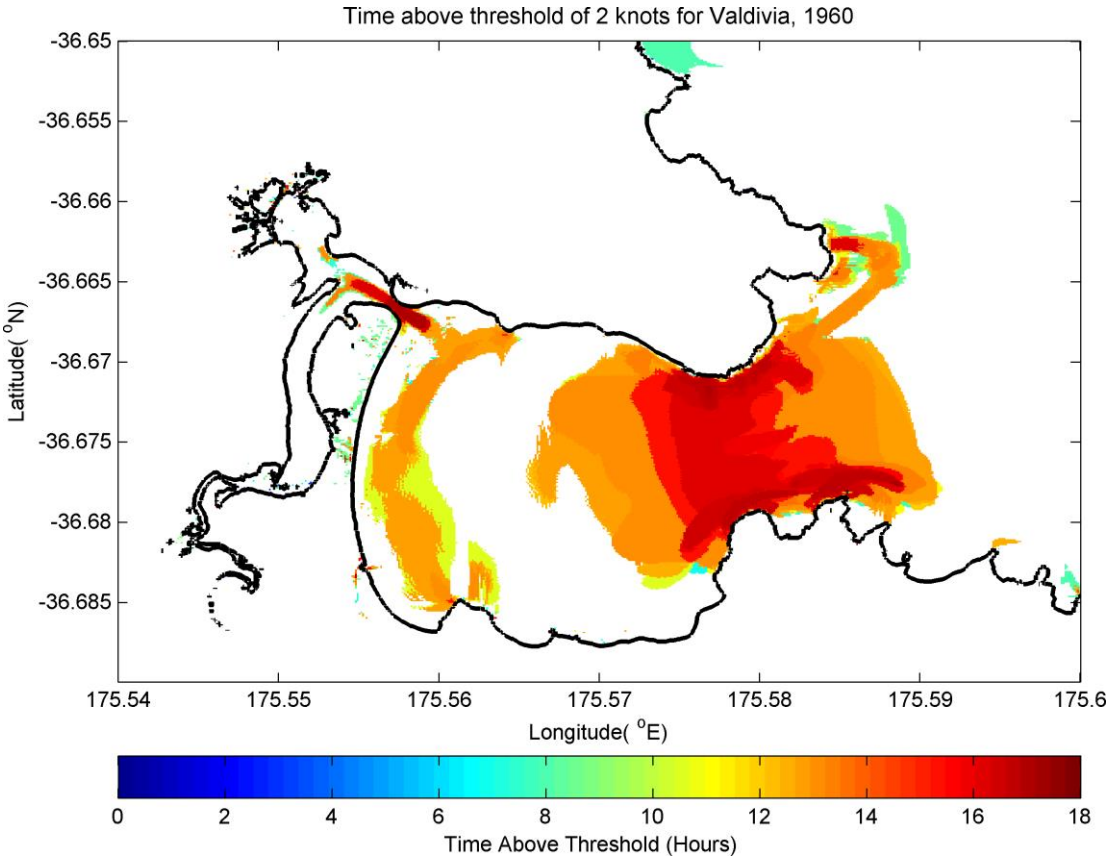

C Grid – Height

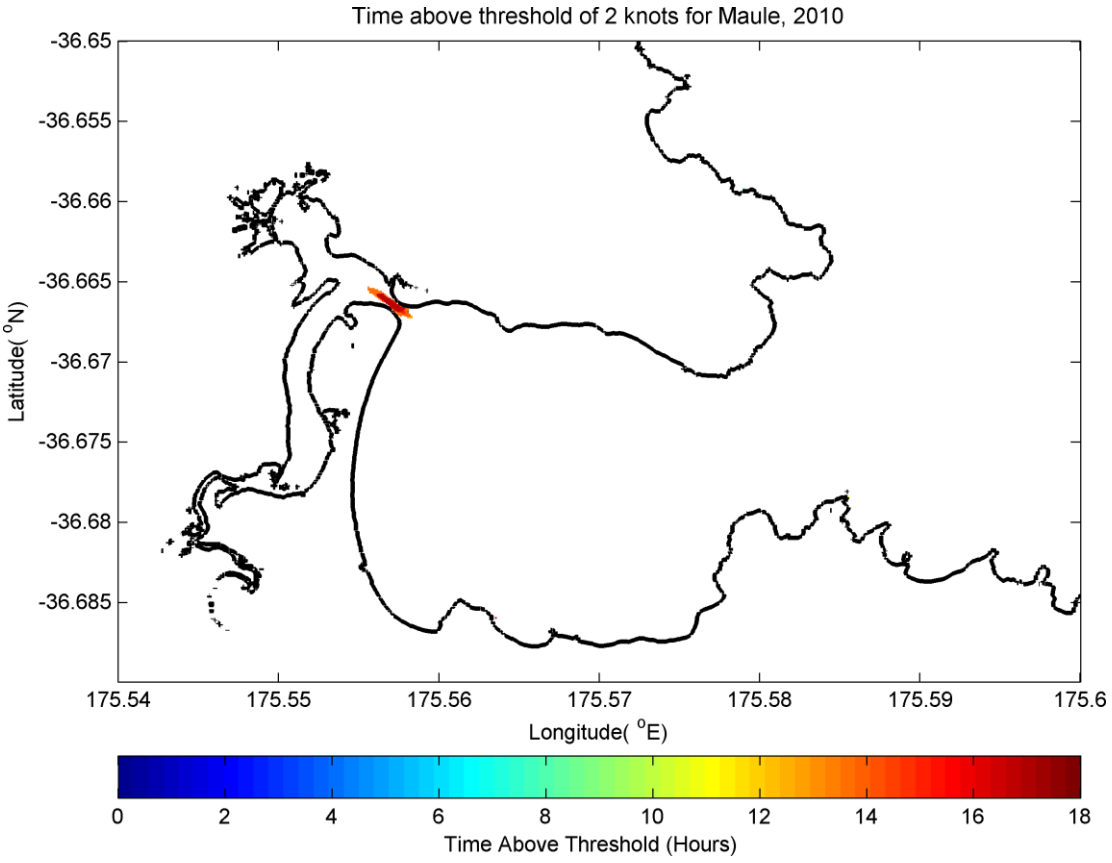


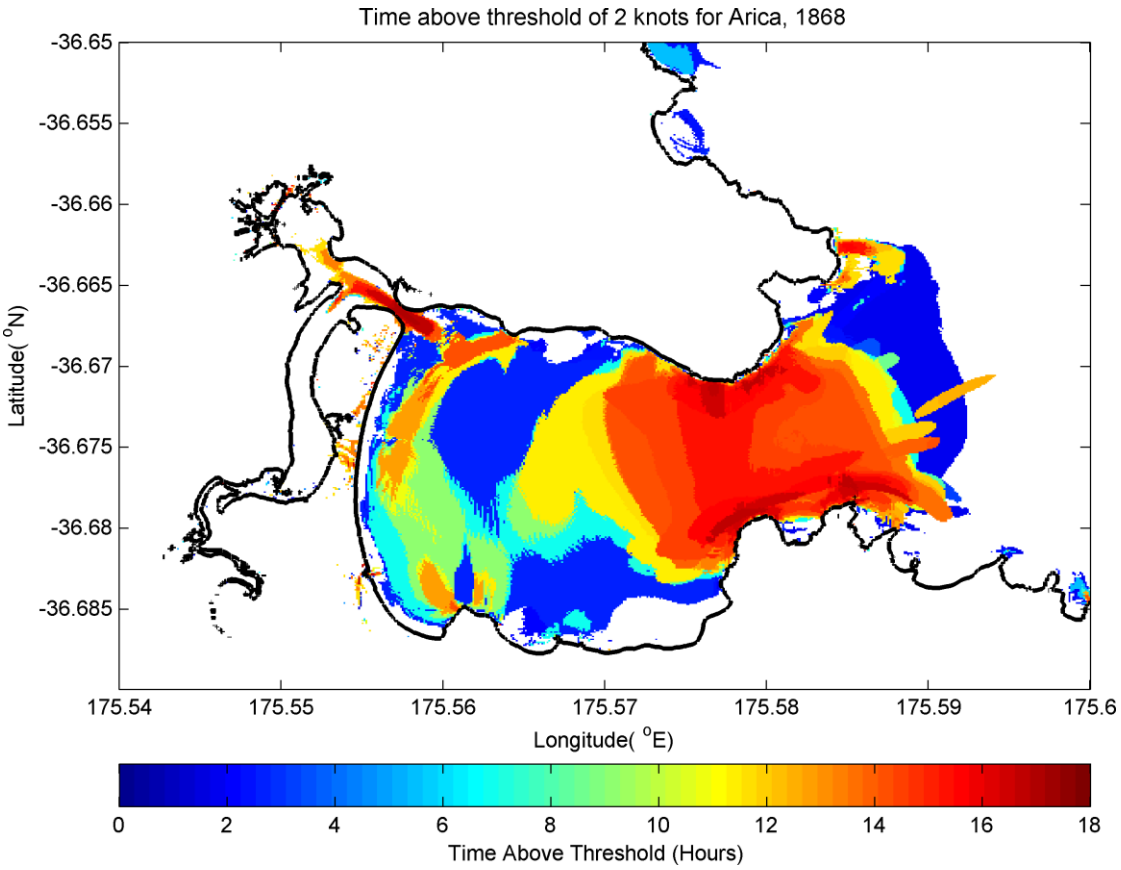

Current Speed

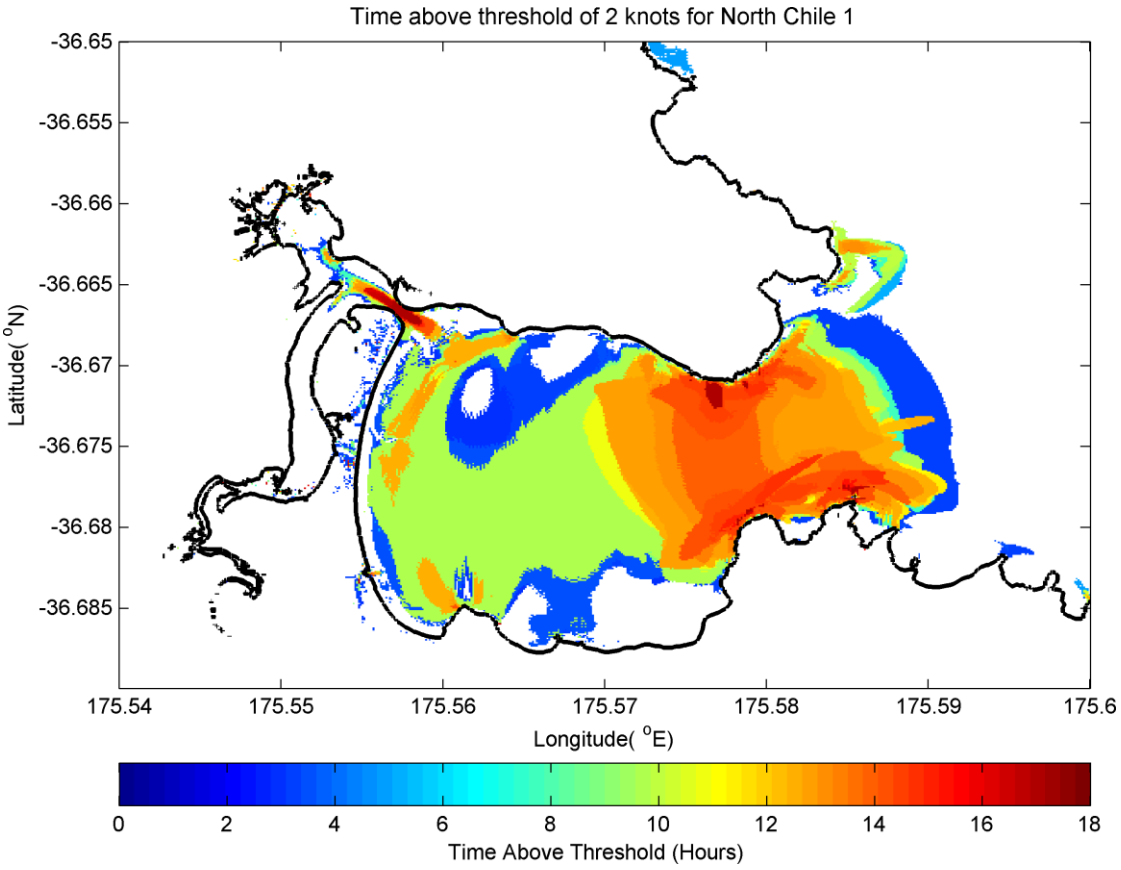


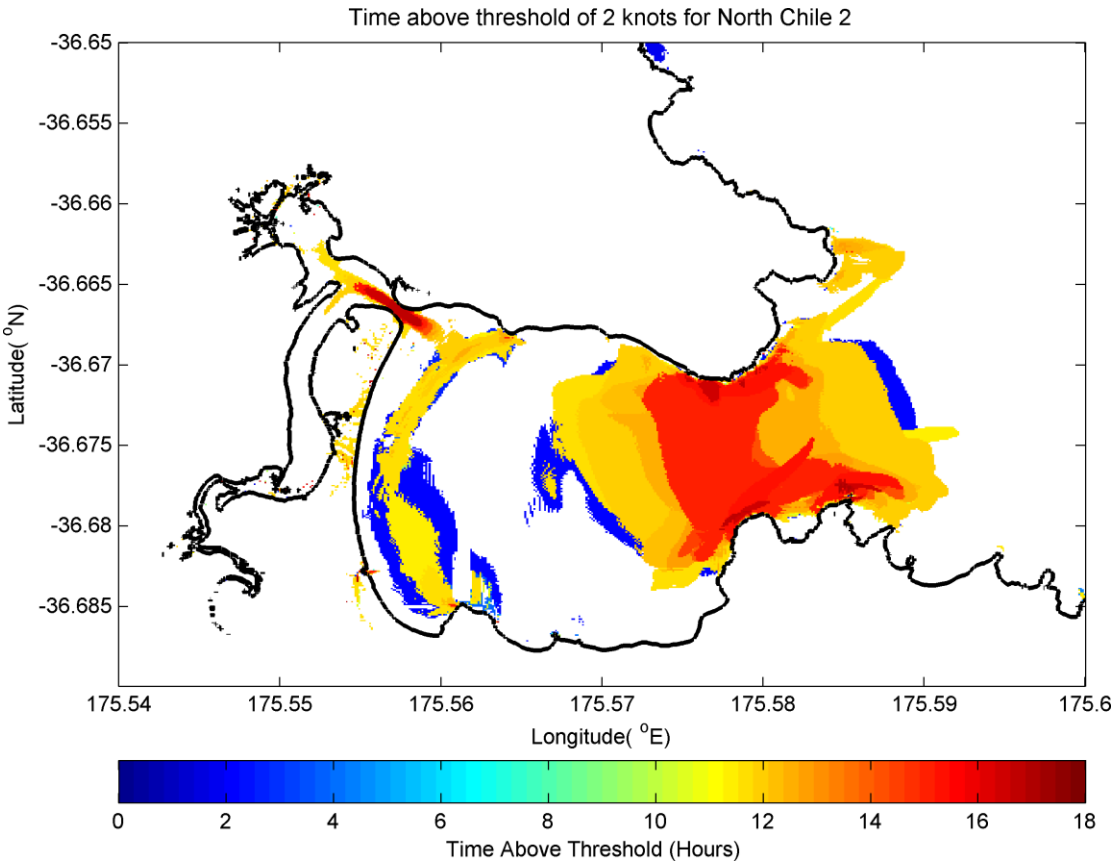
# 14 APPENDIX 14 – KENNEDY BAY: DISTANT SOURCE CURRENT SPEED DURATION

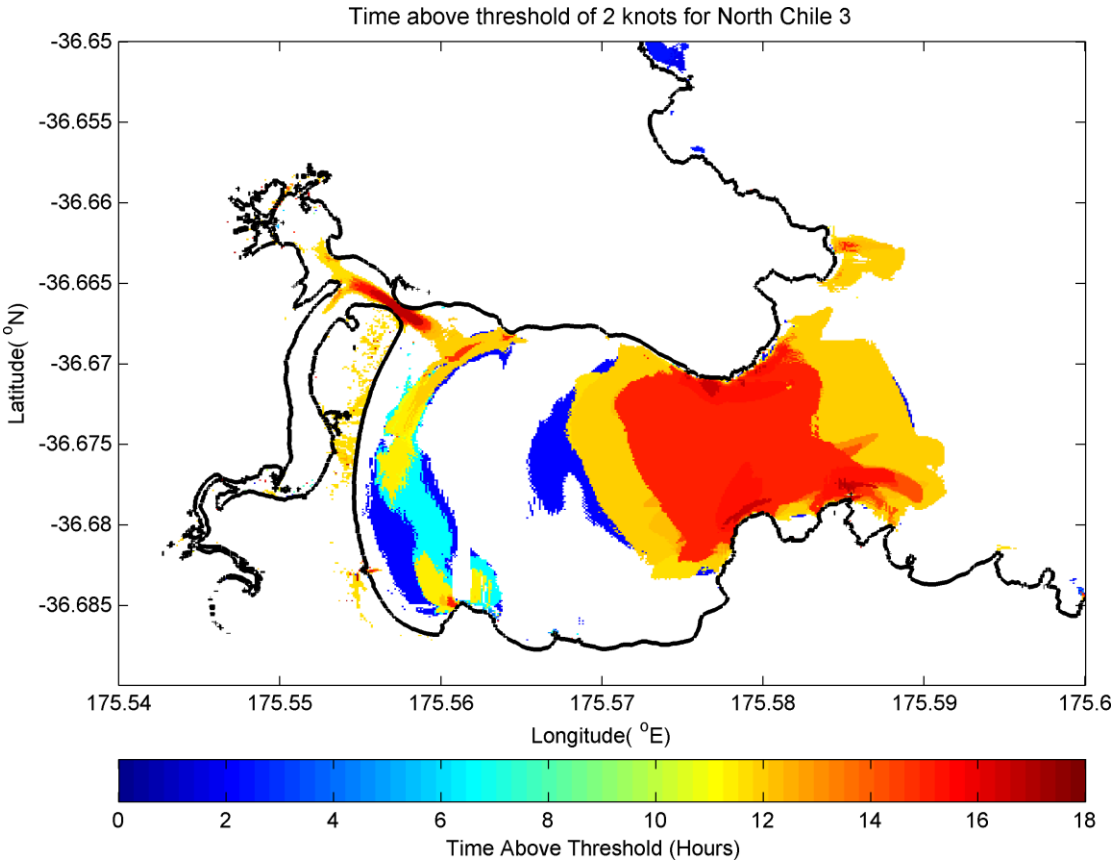


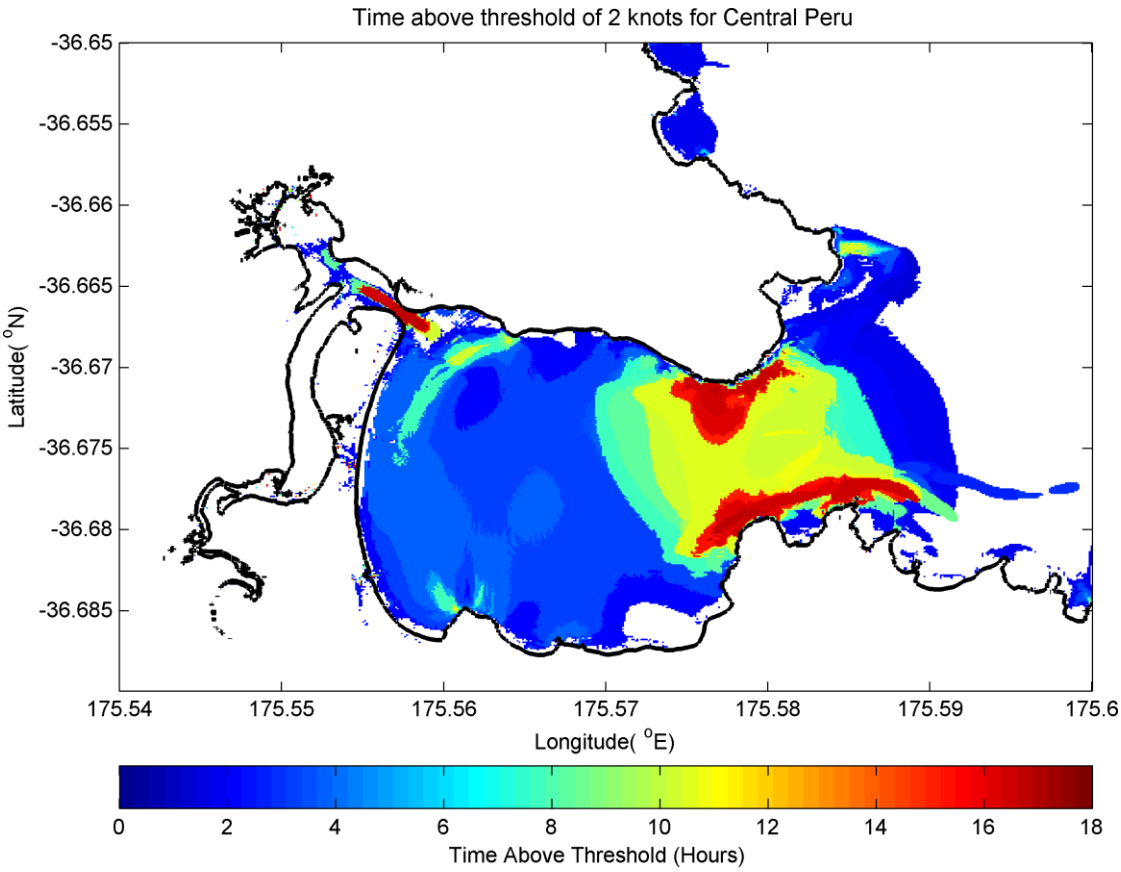




Time above threshold of 2 knots for Arica, 1868
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

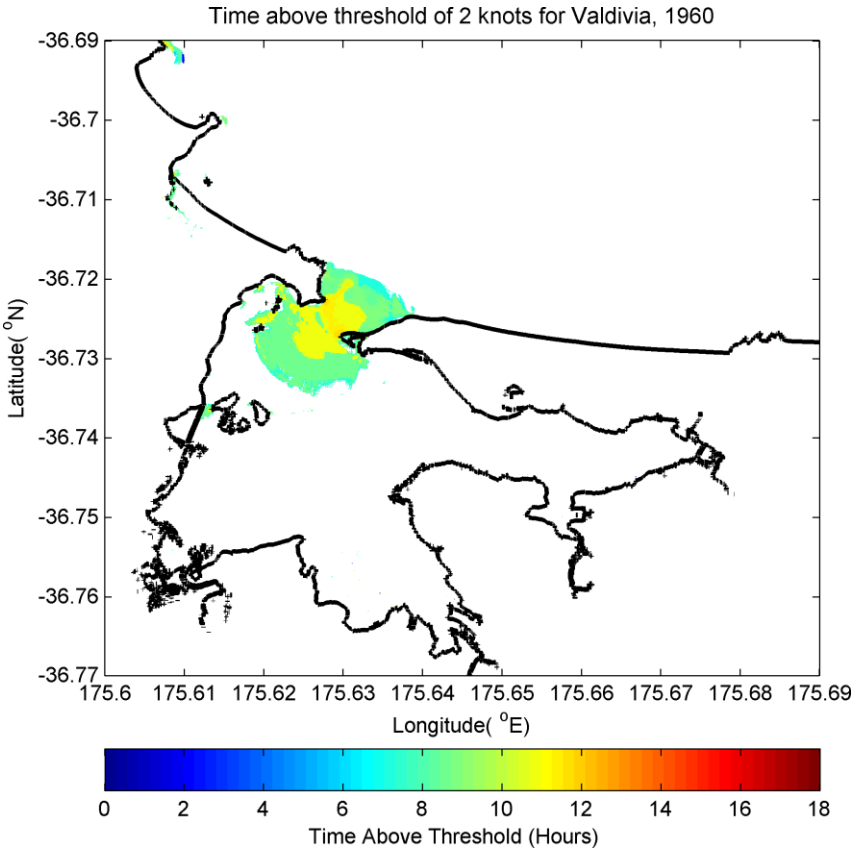

Time above threshold of 2 knots for North Chile 1
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

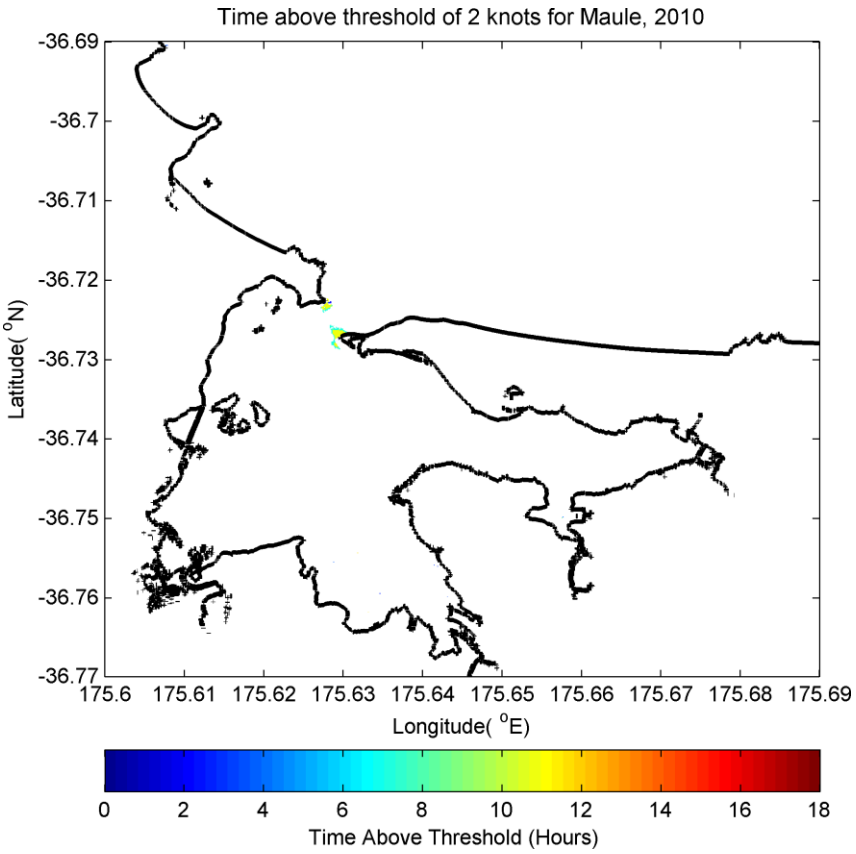

Time above threshold of 2 knots for North Chile 2
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

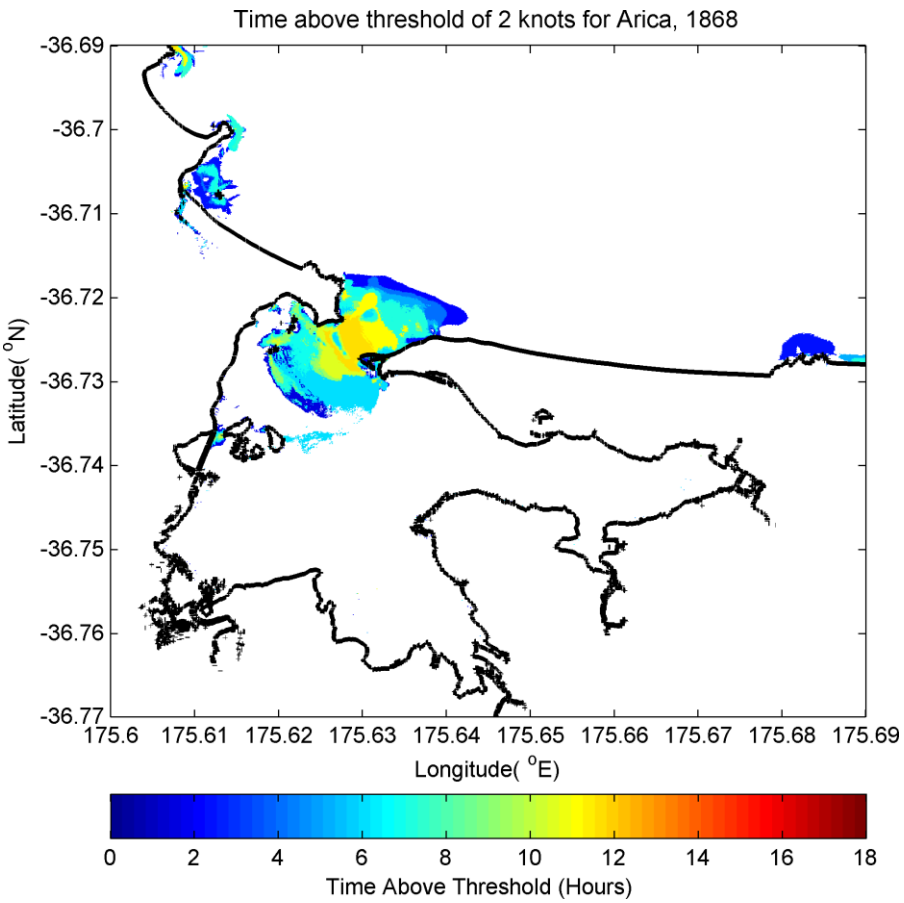

Time above threshold of 2 knots for North Chile 3
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

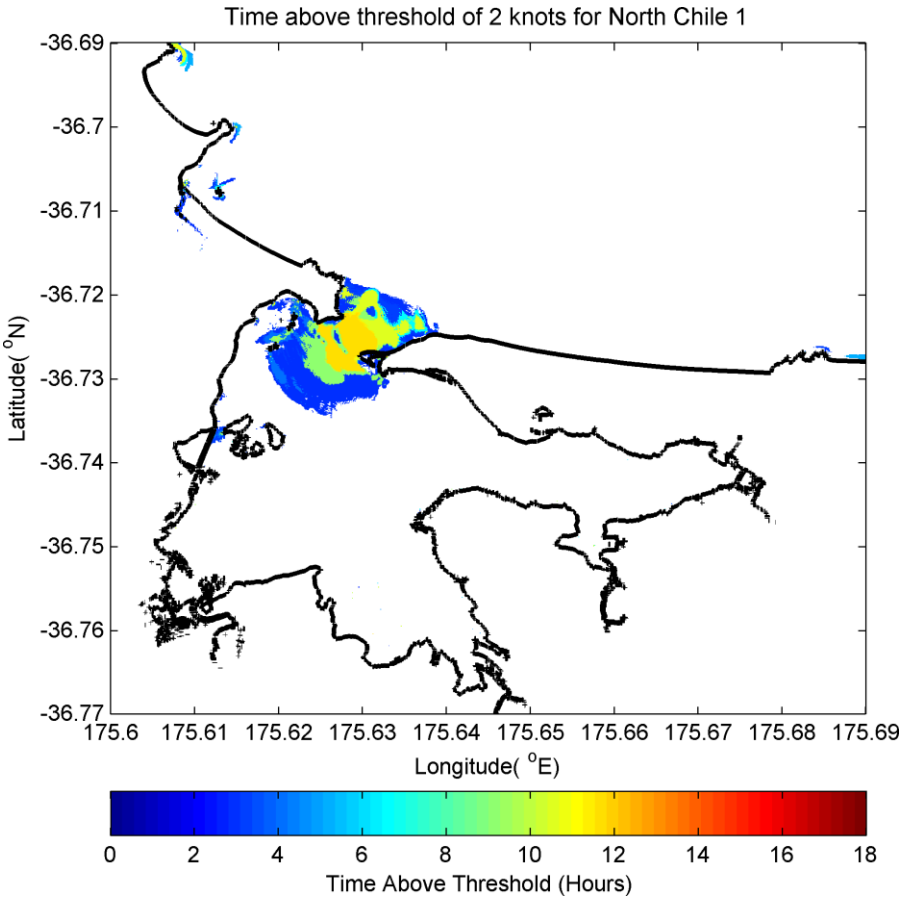

Time above threshold of 2 knots for Central Peru
-36.65
-36.655
-36.66
-36.665
-36.67
-36.675
-36.68
-36.685
Latitude( °N)
175.54
175.55
175.56
175.57
175.58
175.59
175.6
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

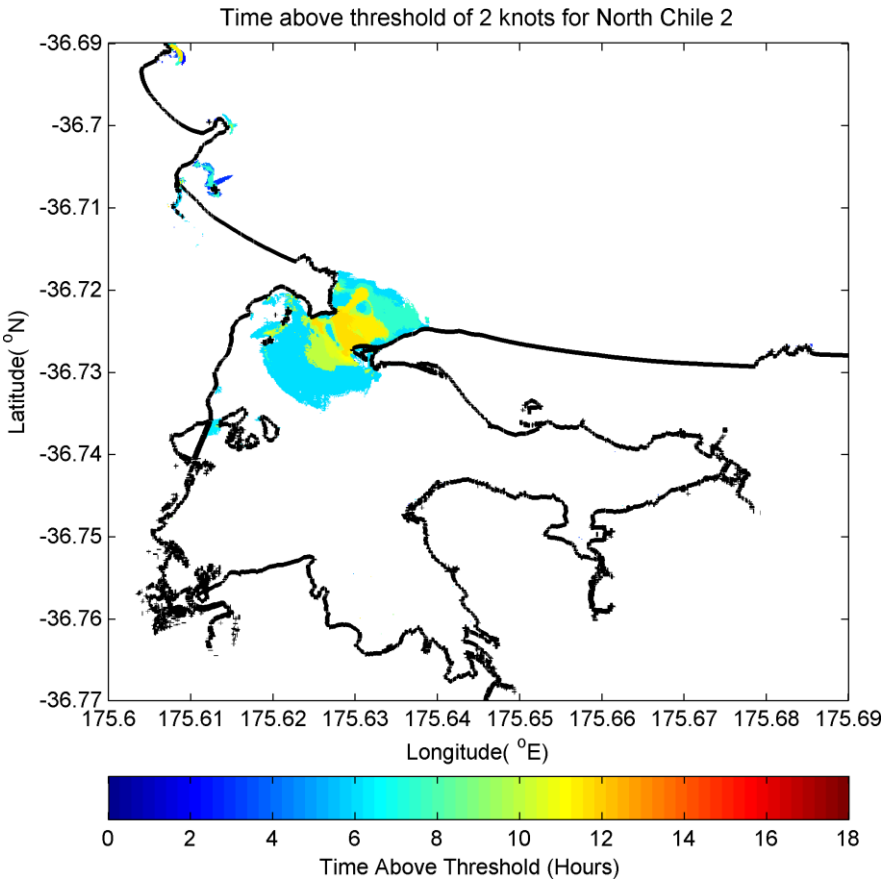
# 15 APPENDIX 15 – WHANGAPOUA: DISTANT SOURCE CURRENT SPEED DURATION

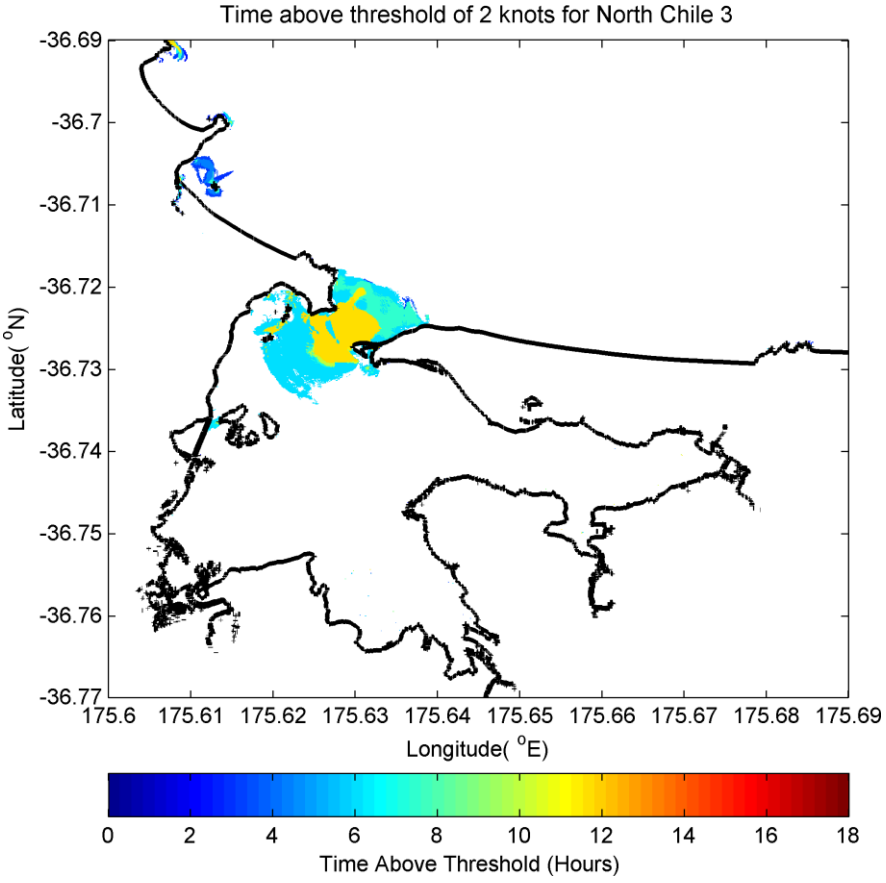


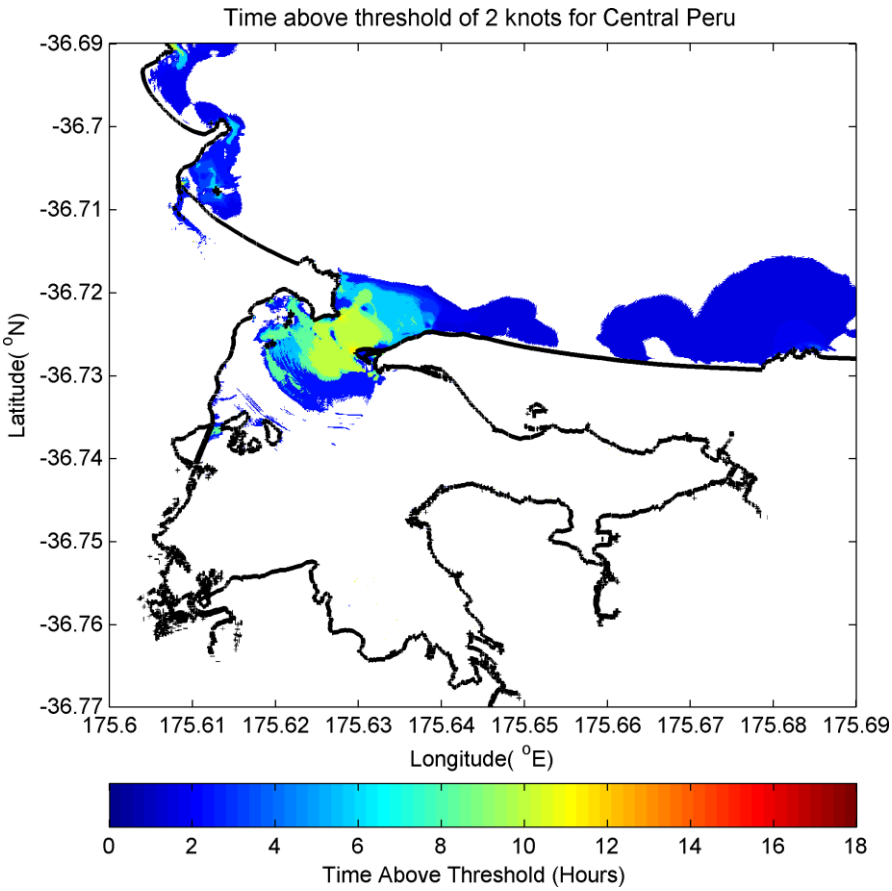




Time above threshold of 2 knots for Arica, 1868
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

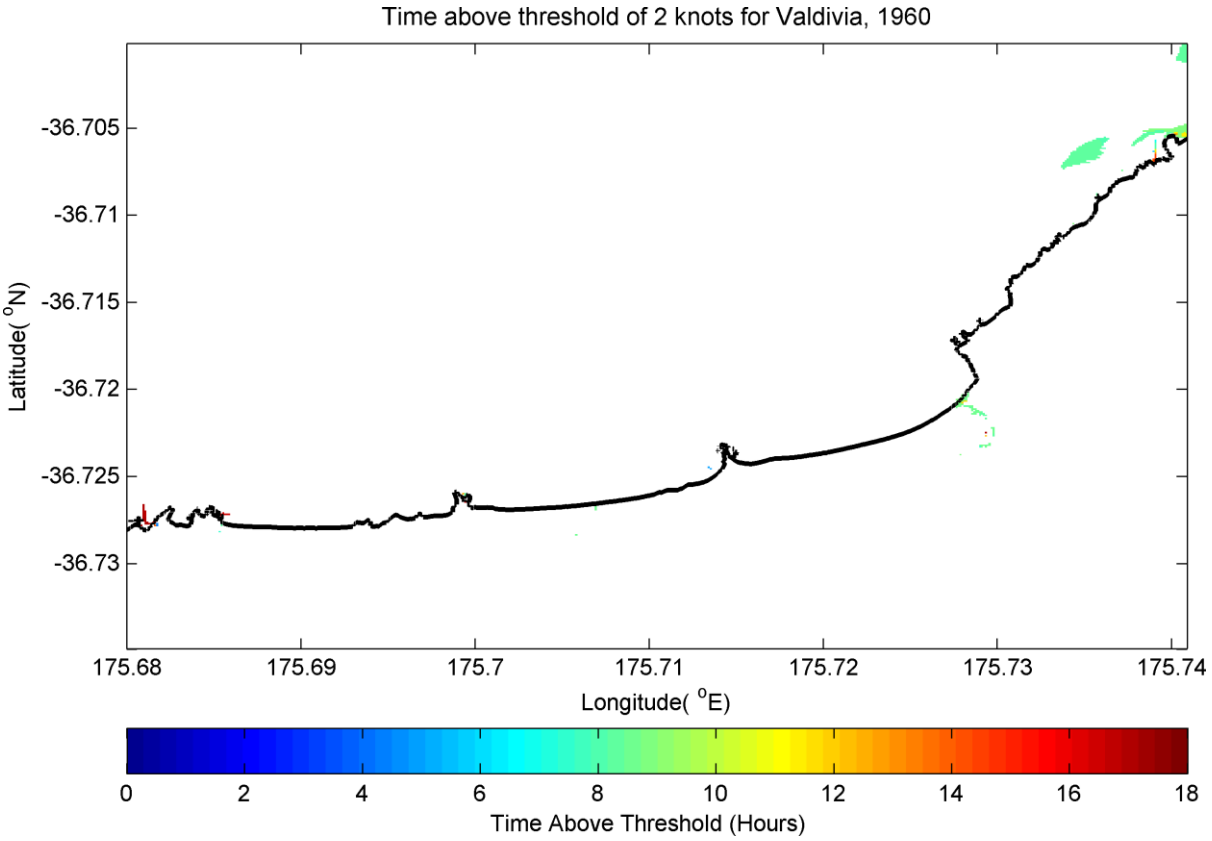

Time above threshold of 2 knots for North Chile 1
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

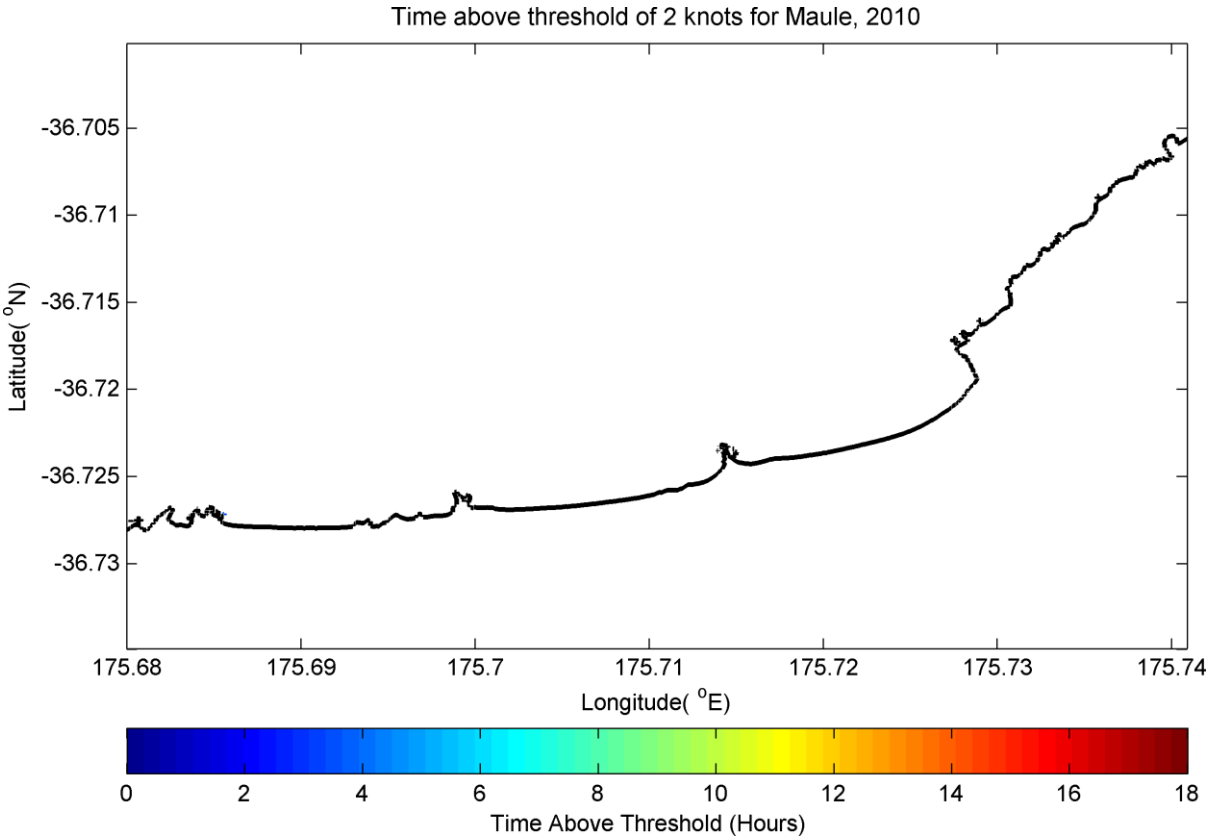

Time above threshold of 2 knots for North Chile 2
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

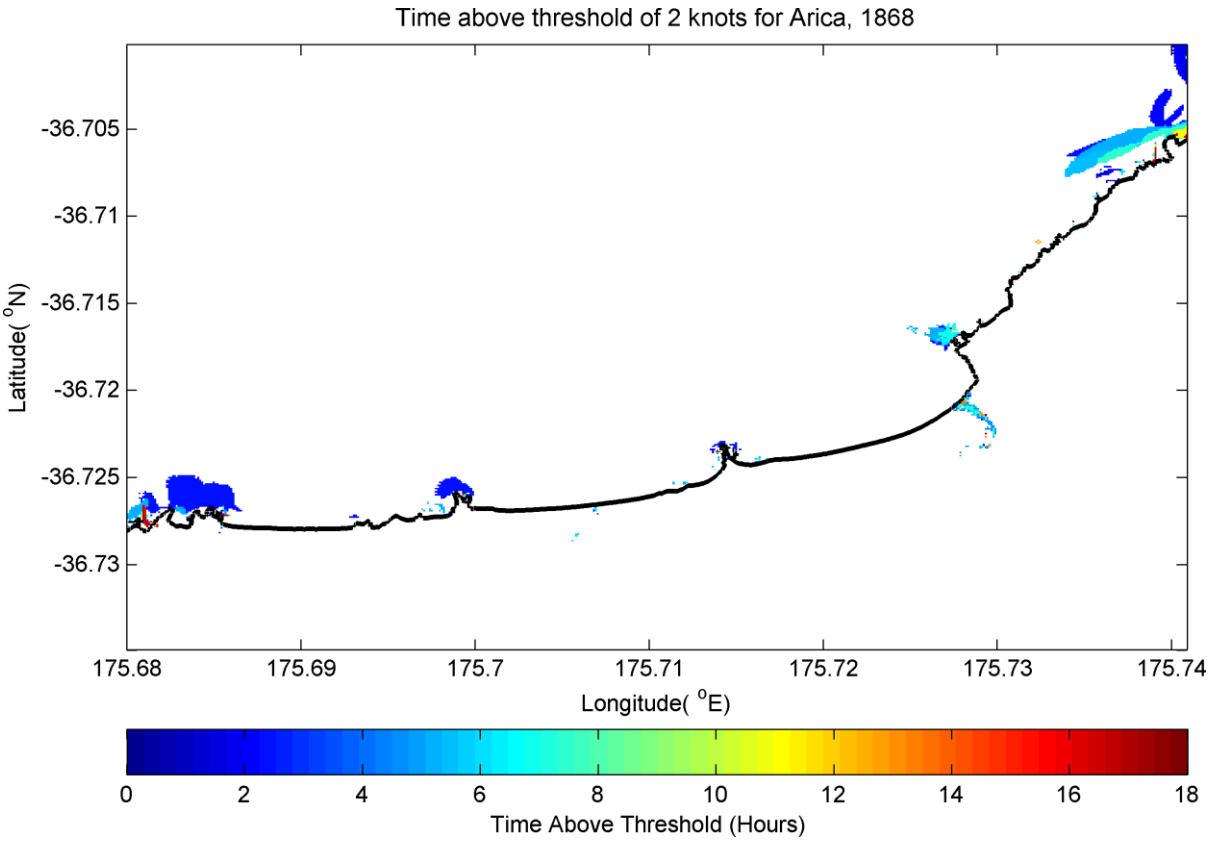

Time above threshold of 2 knots for North Chile 3
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

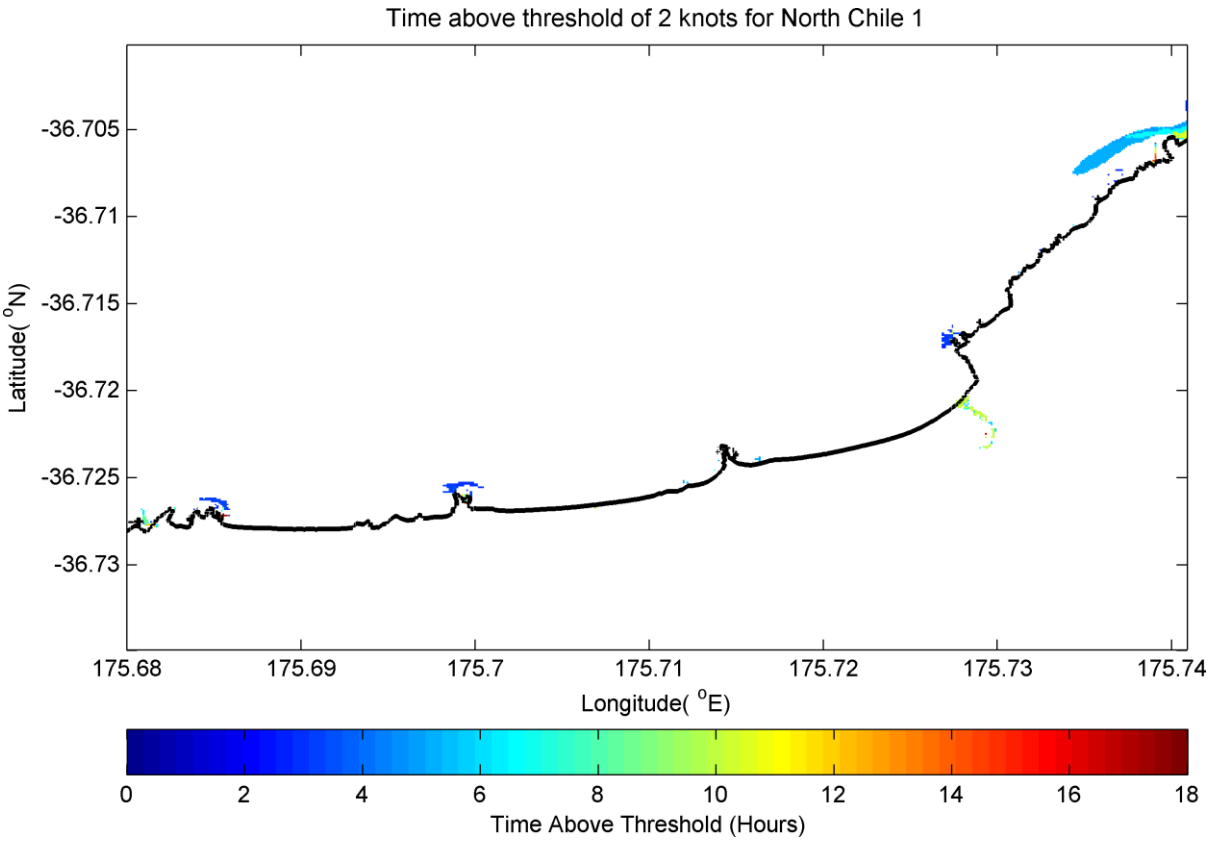

Time above threshold of 2 knots for Central Peru
-36.69
-36.7
-36.71
-36.72
-36.73
-36.74
-36.75
-36.76
-36.77
Latitude( °N)
175.6
175.61
175.62
175.63
175.64
175.65
175.66
175.67
175.68
175.69
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

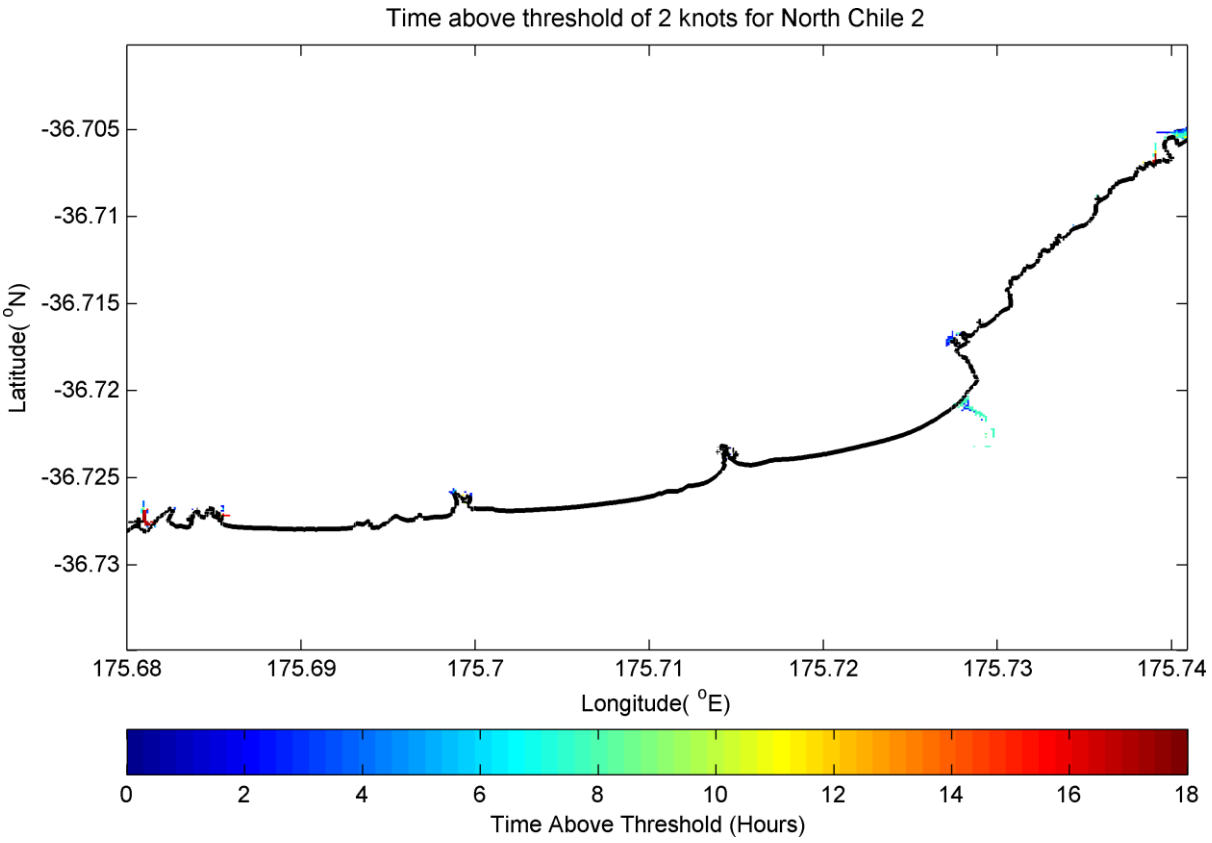
# 16 APPENDIX 16 – KUAOTUNU: DISTANT SOURCE CURRENT SPEED DURATION

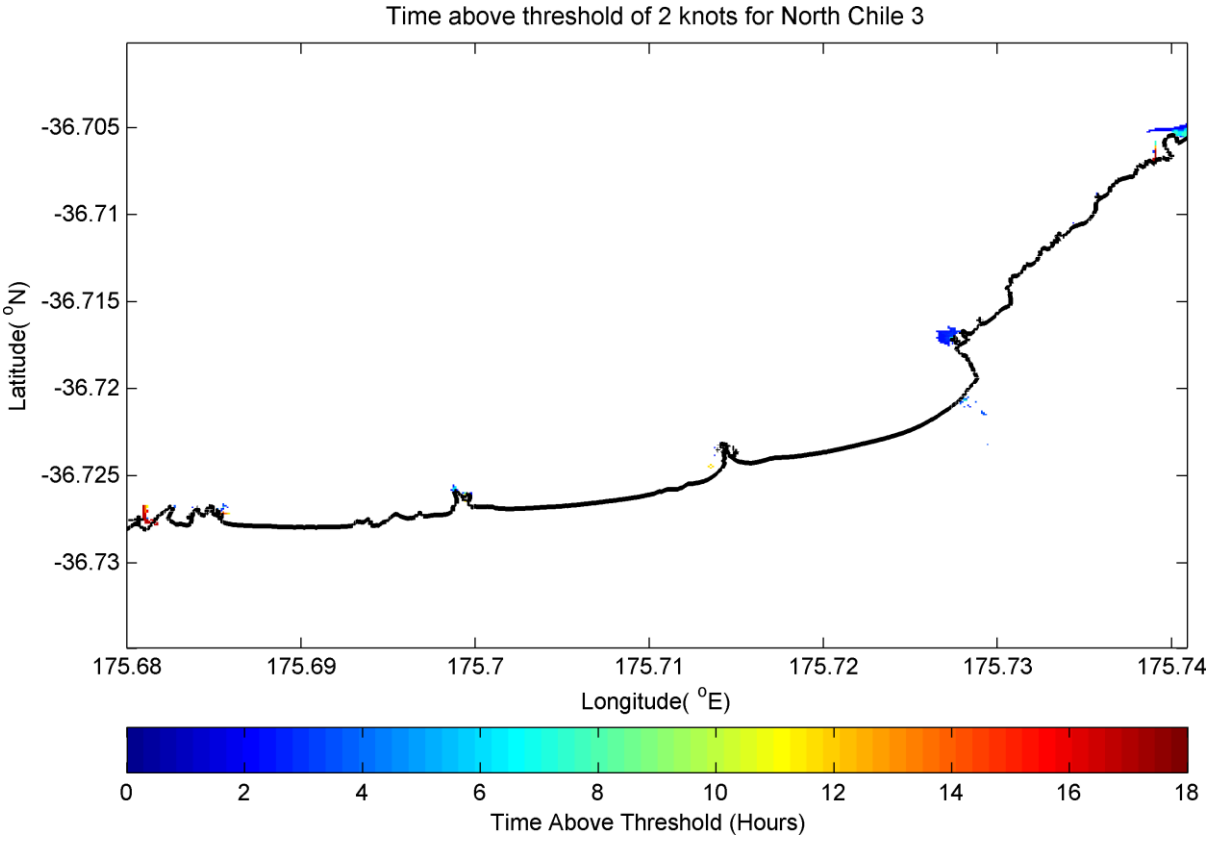


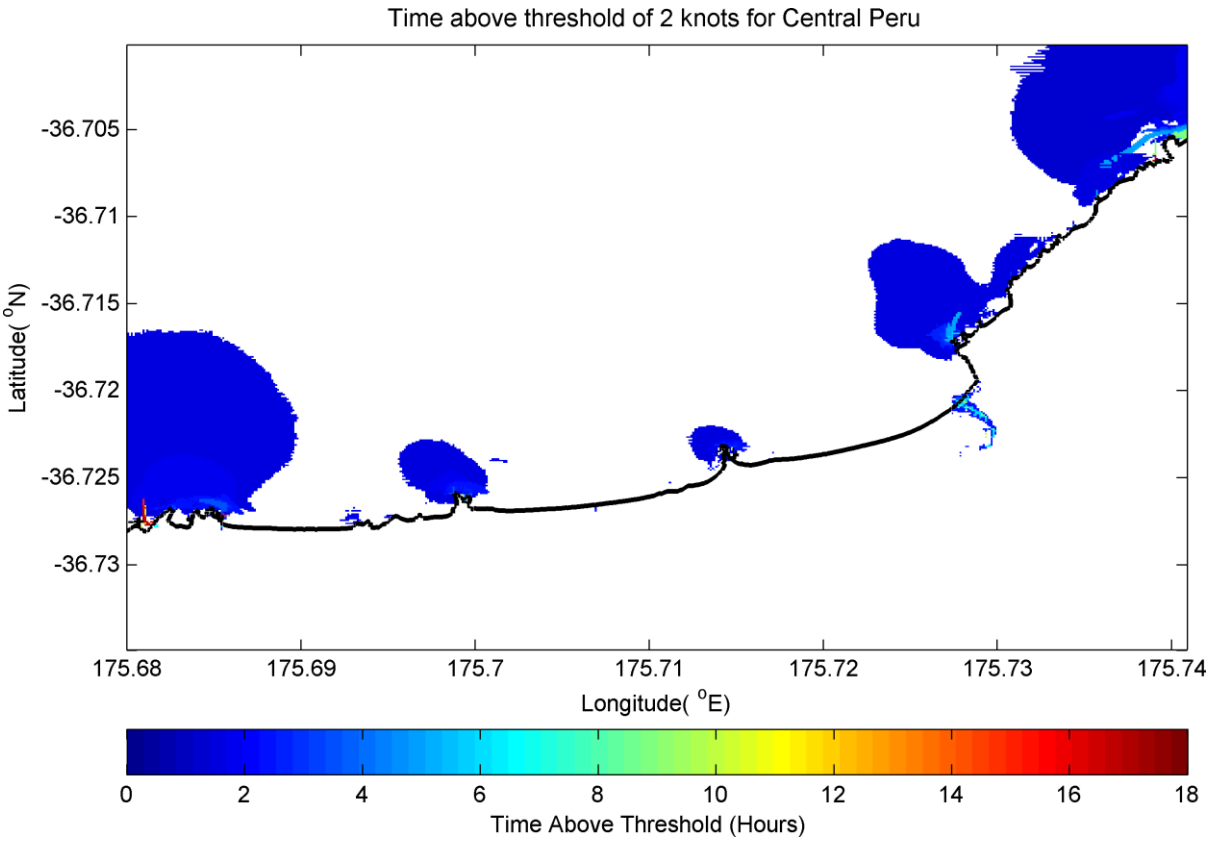




Time above threshold of 2 knots for Arica, 1868
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

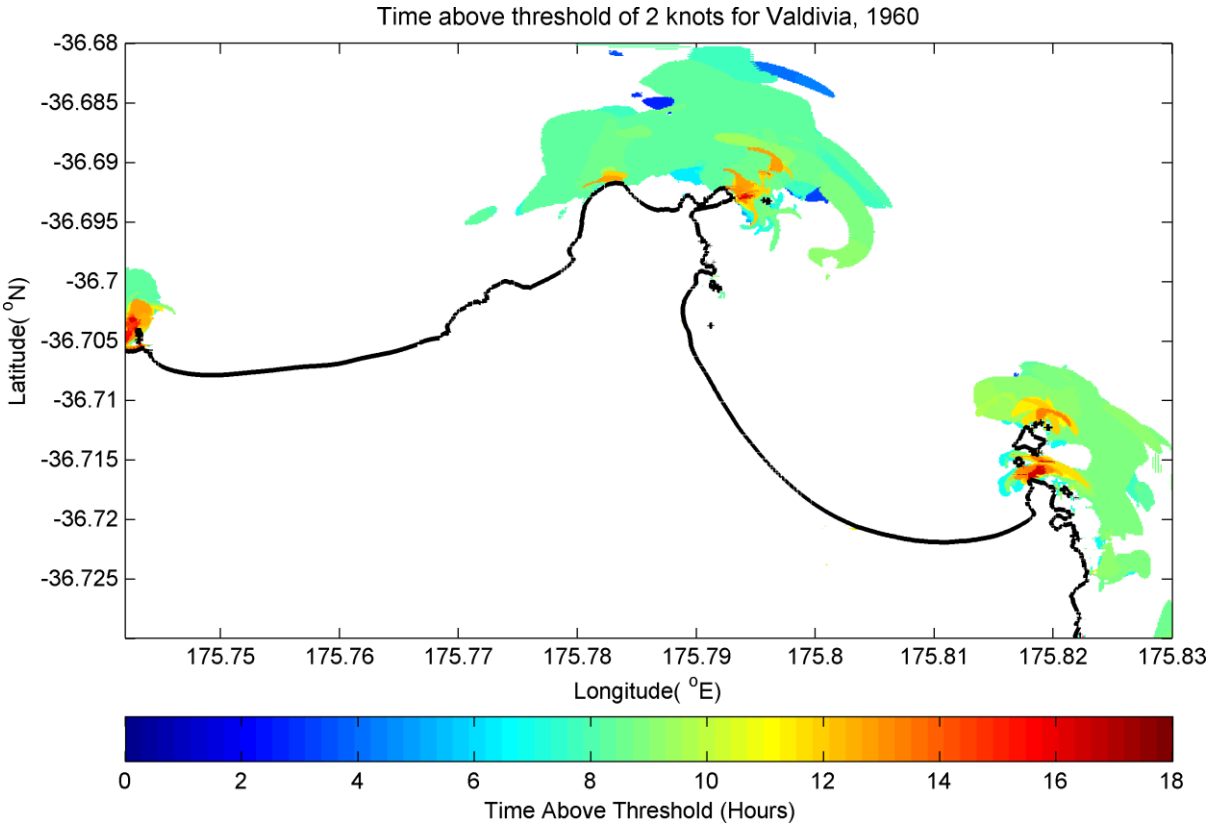

Time above threshold of 2 knots for North Chile 1
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

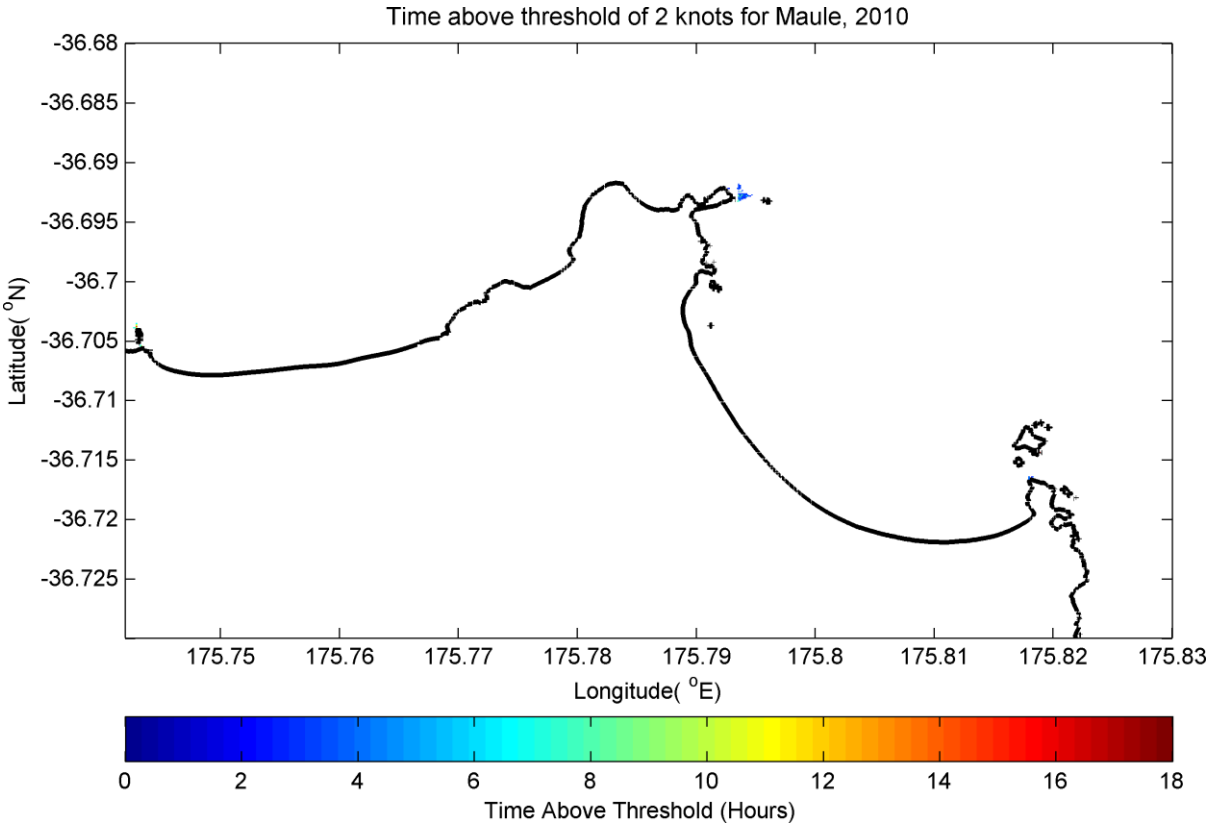

Time above threshold of 2 knots for North Chile 2
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

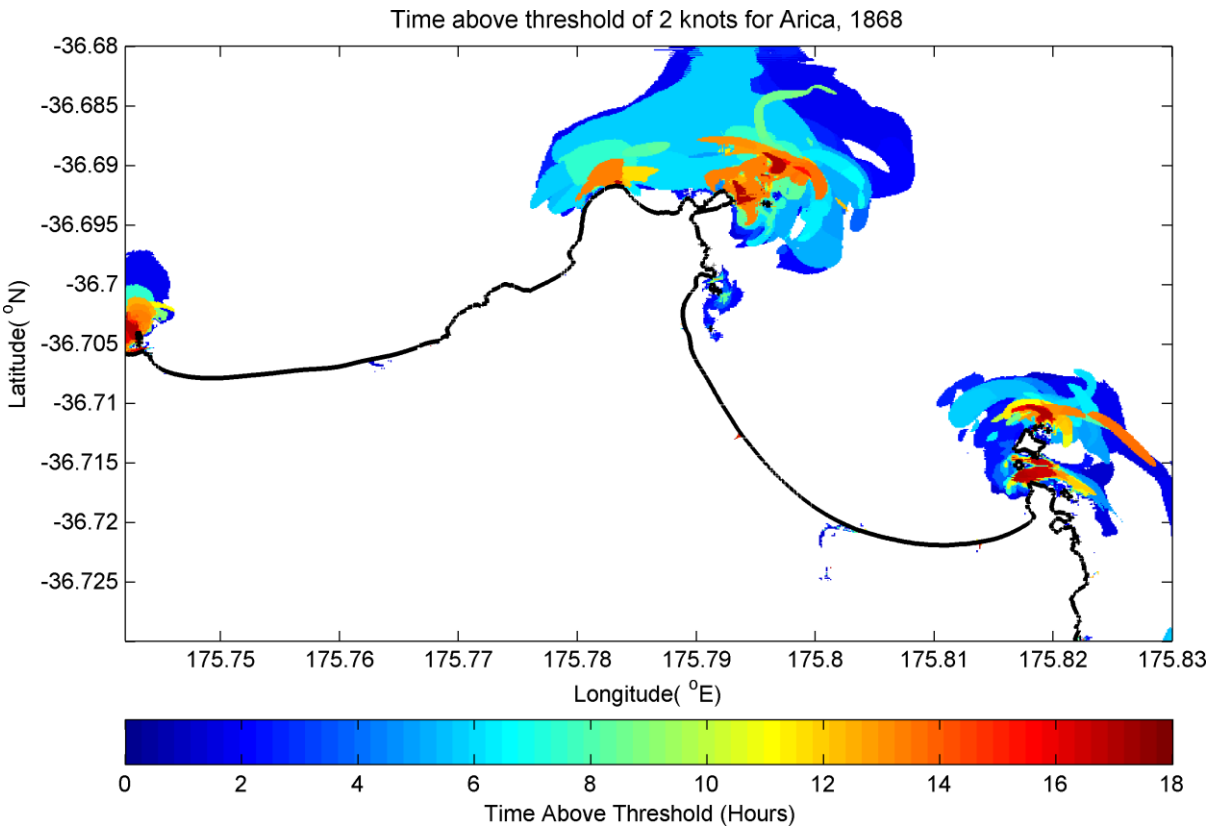

Time above threshold of 2 knots for North Chile 3
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

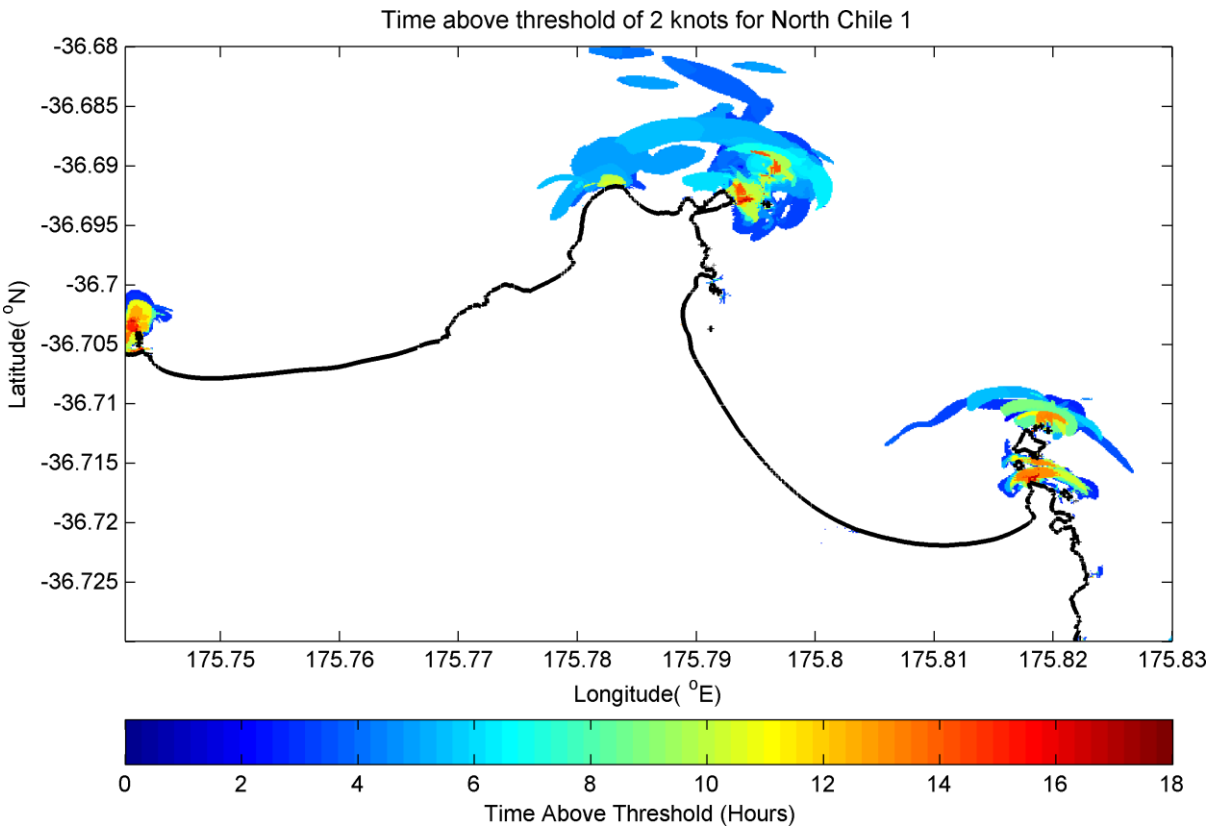

Time above threshold of 2 knots for Central Peru
-36.705
-36.71
-36.715
-36.72
-36.725
-36.73
Latitude( °N)
175.68
175.69
175.7
175.71
175.72
175.73
175.74
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)

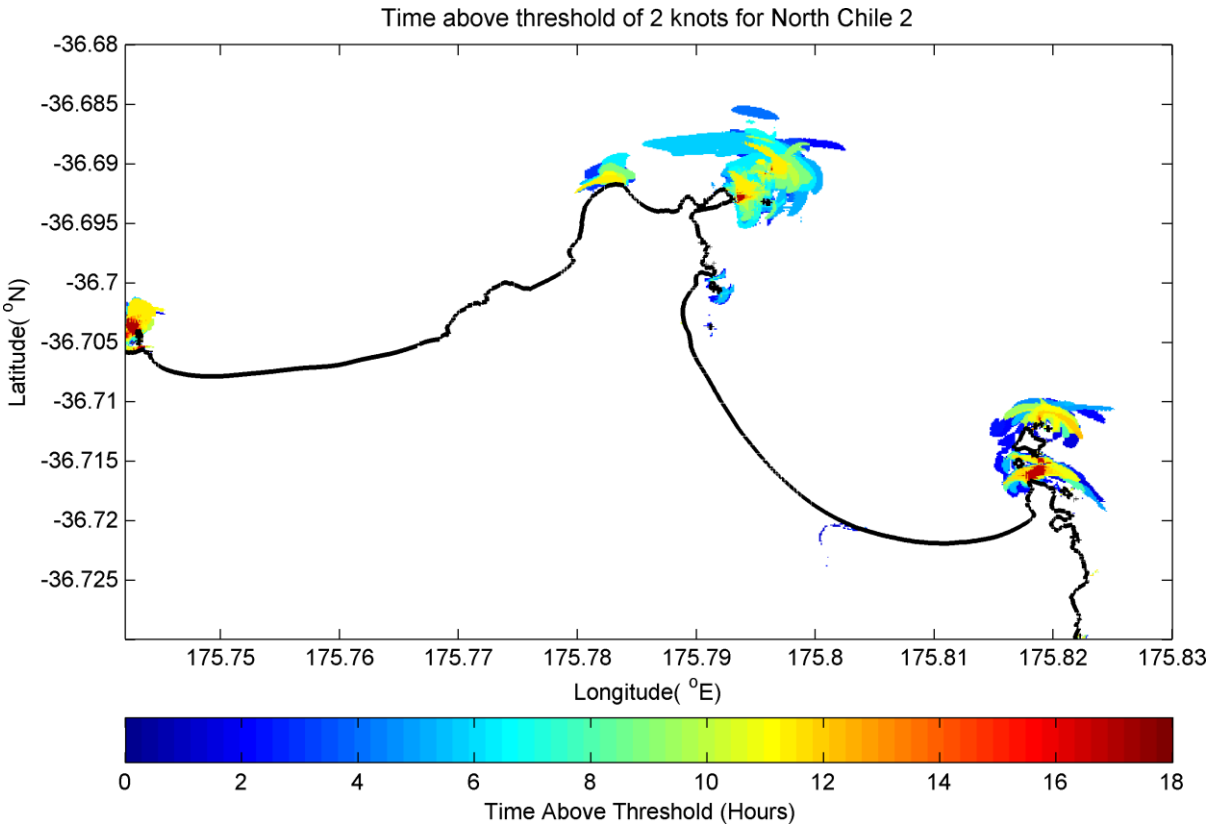
# 17 APPENDIX 17 – OPITO BAY: DISTANT SOURCE CURRENT SPEED DURATION

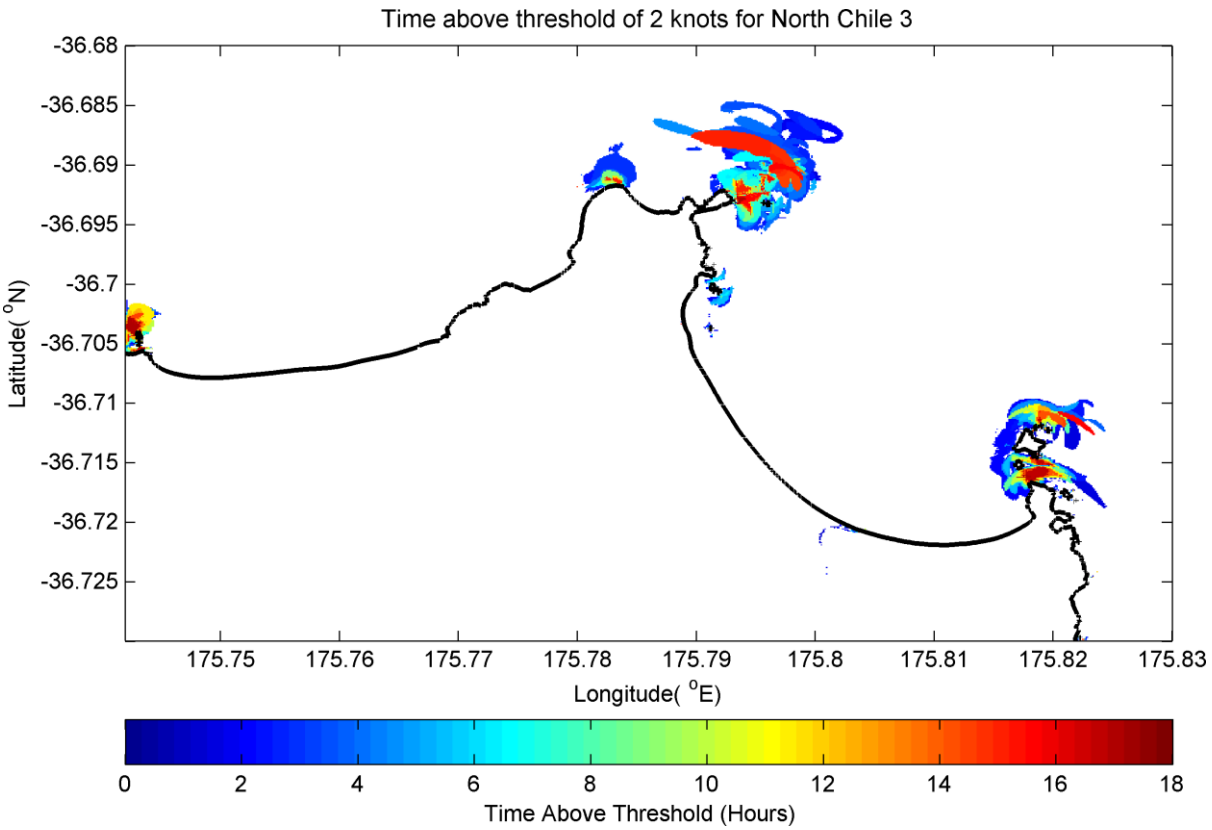


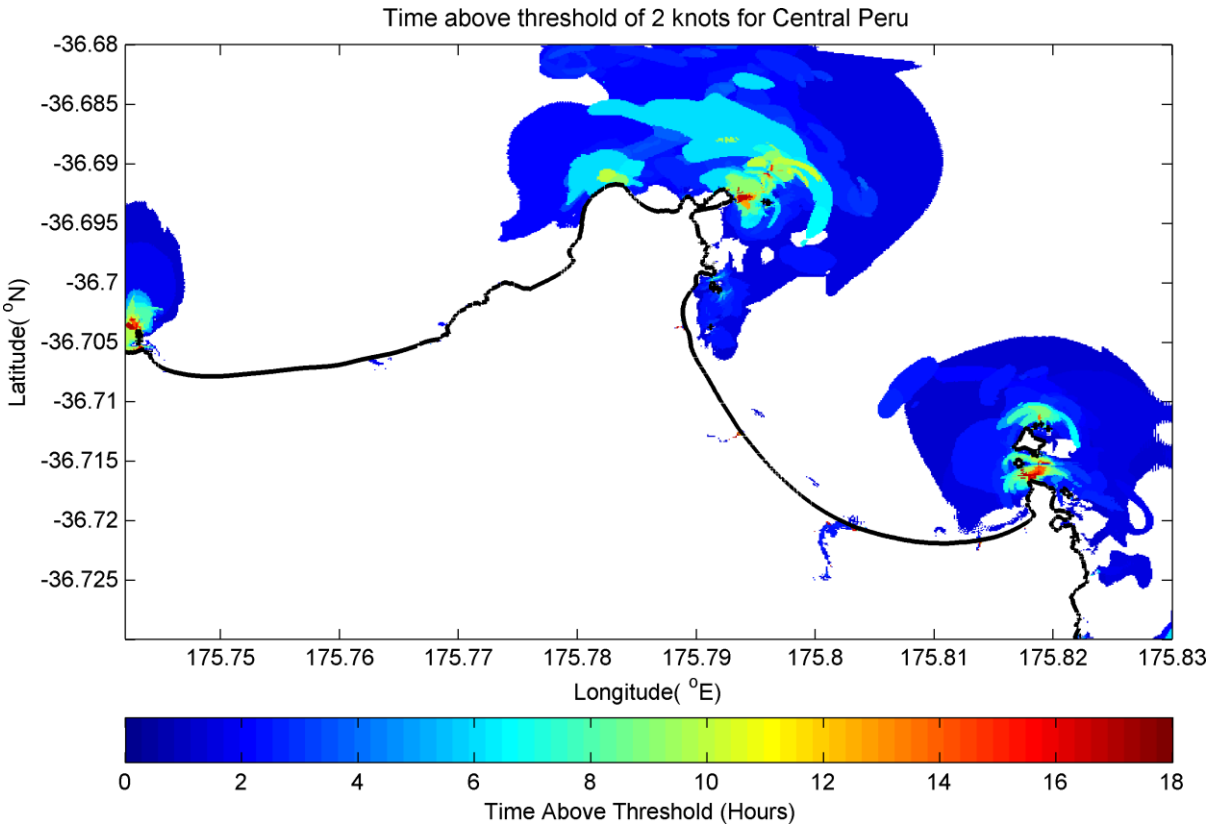




Time above threshold of 2 knots for Arica, 1868
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)


Time above threshold of 2 knots for North Chile 1
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)


Time above threshold of 2 knots for North Chile 2
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)


Time above threshold of 2 knots for North Chile 3
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)


Time above threshold of 2 knots for Central Peru
-36.68
-36.685
-36.69
-36.695
-36.7
-36.705
-36.71
-36.715
-36.72
-36.725
Latitude( °N)
175.75
175.76
175.77
175.78
175.79
175.8
175.81
175.82
175.83
Longitude( °E)
0
2
4
6
8
10
12
14
16
18
Time Above Threshold (Hours)