

## **APPENDICES**

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## APPENDIX 1: REFERENCES TO TSUNAMI-RELATED PUBLICATIONS RELEVANT TO NEW ZEALAND

Table A 1.1 lists tsunami modelling studies organised on the basis of study location. Table A 1.2 lists research and modelling studies, not necessarily location specific, but with relevance to New Zealand.

**Table A 1.1** A brief summary of tsunami modelling and inundation studies in New Zealand.

District	Communities/Suburbs	Tsunami Sources	References
Northland	Maximum tsunami elevations along Northland coastlines	M <sub>w</sub> 8.5, 8.8, 8.9, 9.4 scenario events in Kermadec subduction zone and 3 M <sub>w</sub> 8.15 scenarios in Southern New Hebrides subduction zone	William Power, Laura Wallace, Xiaoming Wang and Martin Reyners (2012) Tsunami hazard posed to New Zealand by the Kermadec and Southern New Hebrides subduction margins: an assessment based on plate boundary kinematics, interseismic coupling and historical seismicity. Pure Appl. Geophys. 169: 1-35.
	Maximum tsunami elevations along most of Northland coastlines	M <sub>w</sub> 9.0 in South America, M <sub>w</sub> 9.2 in Solomon Sea, M <sub>w</sub> 9.2 in New Hebrides, M <sub>w</sub> 9.0 in Tonga-Kermadec trench	James Goff, Roy Walters and Fraser Callaghan (2006) Tsunami source study, NIWA Client Report CHC2006-082 (Environment Waikato Technical Report 2006/49)
	Inundation modelling in many coastal communities in the Northland region. Ahipara, Bream Bay, Bay of Islands, Doubtless Bay, East Beach, Dargaville, Mangawhai, Omapere, Whangarei, Whangarei East Coast North, Whangarei East coast south, Whangaroa, Whangaruru	South America scenario similar to the 1868 event, M <sub>w</sub> 8.5 and M <sub>w</sub> 9.0 scenario events in Tonga-Kermadec subduction trench	Emily Lane, Roy Walters, Jade Arnold and Helen Roulston (2007) Northland Regional Council tsunami modelling study 1, NIWA Client Report CHC2007-109.  Philip Gillibrand, Emily Lane, Jade Arnold, John Carter, Jen Dumas, Matt Enright and James Goff (2008) Northland Regional Council tsunami modelling study 2, NIWA Client Report CHC2008-115.  Jade Arnold, John Carter, Jen Dumas and Philip Gillibrand (2009) Northland Regional Council tsunami modelling study 3, NIWA Client Report CHC2009-042.
	Whangarei Harbour and environs, including Marsden Bay, Takahiwai, Oakleigh, Otaika, Whangarei and Bream Head;	South America scenario similar to the 1868 event, M <sub>w</sub> 8.5 and M <sub>w</sub> 9.0 scenario events in Tonga-Kermadec subduction trench	Jade Arnold, Philip Gillibrand and Julian Sykes (2010) Numerical modelling of tsunami inundation for Whangarei Harbour and environs, NIWA Client Report CHC2010-133

District	Communities/Suburbs	Tsunami Sources	References
Auckland	Maximum tsunami elevations along most of Auckland coastlines	M <sub>w</sub> 9.0 in South America, M <sub>w</sub> 9.2 in Solomon Sea, M <sub>w</sub> 9.2 in New Hebrides, M <sub>w</sub> 9.0 in Tonga-Kermadec trench	James Goff, Roy Walters and Fraser Callaghan (2006) Tsunami source study, NIWA Client Report CHC2006-082 (Environment Waikato Technical Report 2006/49)
	Maximum tsunami elevations along most of Auckland coastlines	M <sub>w</sub> 8.5, 8.8, 8.9, 9.4 scenarios events in Kermadec subduction zone and 3 M <sub>w</sub> 8.15 scenarios in Southern New Hebrides subduction zone	William Power, Laura Wallace, Xiaoming Wang and Martin Reyners(2012) Tsunami hazard posed to New Zealand by the Kermadec and Southern New Hebrides subduction margins: an assessment based on plate boundary kinematics, interseismic coupling and historical seismicity. Pure Appl. Geophys. 169: 1-35.
	Inundation modelling in many coastal communities in the Auckland region, including Omaha and Snell Beach, Waiwera to Whangaparoa Peninsula, North Shore, CBD, Te Atatu to Mission Bay, Kaiaua and Waiheke Island;	M <sub>w</sub> 9.5 scenario in South America (a variation to the 1868 event)	Emily Lane, Roy Walters, Jade Arnold, Matt Enright and Helen Roulston (2009) Auckland Regional Council inundation study, Prepared by National Institute of Water & Atmospheric Research Ltd for Auckland Regional Council. Auckland Regional Council Technical Report 2009/113
	Probabilistic tsunami hazard study of Auckland region for a 2500-year return period	Kermadec subduction interface, southern New Hebrides	William Power, Xiaoming Wang, Emily Lane and Philip Gillibrand (2012). A Probabilistic Tsunami Hazard Study of the Auckland Region, Part I: Propagation Modelling and Tsunami Hazard Assessment at the Shoreline. Pure Appl. Geophys., DOI 10.1007/s00024-012-0543-z. Emily Lane, Philip Gillibrand, Xiaoming Wang and William Power (2012). A Probabilistic Tsunami Hazard Study of the Auckland Region, Part II: Inundation Modelling and Hazard Assessment. Pure Appl. Geophys, DOI: 10.1007/s00024-012-0538-9.

District	Communities/Suburbs	Tsunami Sources	References
Waikato	Maximum tsunami elevations on most of Waikato coastlines	M <sub>W</sub> 9.0 in South America, M <sub>W</sub> 9.2 in Solomon Sea, M <sub>W</sub> 9.2 in New Hebrides, M <sub>W</sub> 9.0 in Tonga-Kermadec trench	James Goff, Roy Walters and Fraser Callaghan (2006) Tsunami source study, NIWA Client Report CHC2006-082 (Environment Waikato Technical Report 2006/49)
	Maximum tsunami elevations on most of Waikato coastlines	M <sub>W</sub> 8.5, 8.8, 8.9, 9.4 scenarios events in Kermadec subduction zone and 3 M <sub>W</sub> 8.15 scenarios in Southern New Hebrides subduction zone	William Power, Laura Wallace, Xiaoming Wang and Martin Reyners(2012) Tsunami hazard posed to New Zealand by the Kermadec and Southern New Hebrides subduction margins: an assessment based on plate boundary kinematics, interseismic coupling and historical seismicity. Pure Appl. Geophys. 169: 1-35.
Bay of Plenty	Maximum tsunami elevations on most Bay of Plenty coastlines	M <sub>W</sub> 9.0 in South America, M <sub>W</sub> 9.2 in Solomon Sea, M <sub>W</sub> 9.2 in New Hebrides, M <sub>W</sub> 9.0 in Tonga-Kermadec trench	James Goff, Roy Walters and Fraser Callaghan (2006) Tsunami source study, NIWA Client Report CHC2006-082 (Environment Waikato Technical Report 2006/49)
	Maximum tsunami elevations on most of Bay of Plenty coastlines	M <sub>W</sub> 8.5, 8.8, 8.9, 9.4 scenarios events in Kermadec subduction zone and 3 M <sub>W</sub> 8.15 scenarios in Southern New Hebrides subduction zone	William Power et al. (2012) Tsunami hazard posed to New Zealand by the Kermadec and Southern New Hebrides subduction margins: an assessment based on plate boundary kinematics, interseismic coupling and historical seismicity. Pure Appl. Geophys. 169; 1-35.
	Inundation modelling for Wairakei, Te Tumu,	Tonga-Kermadec-Hikurangi M <sub>W</sub> 8.5 scenario; local faults (White Island faults, composite Volkner faults, composite Astolabe faults); complex combination of subduction zone earthquake and landslide; sector collapse of seamount/submarine volcano	Roy Walters, Fraser Callaghan and James Goff (2006) Wairakei/Te Tumu tsunami inundation study. Prepared by National Institute of Water & Atmospheric Research Ltd for Environment Bay of Plenty. NIWA Client Report CHC2006-020.

<b>District</b>	<b>Communities/Suburbs</b>	<b>Tsunami Sources</b>	<b>References</b>
Gisborne	Maximum tsunami elevations on most of Bay of Plenty coastlines	M <sub>w</sub> 8.5, 8.8, 8.9, 9.4 scenarios events in Kermadec subduction zone and 3 M <sub>w</sub> 8.15 scenarios in Southern New Hebrides subduction zone	William Power, Laura Wallace, Xiaoming Wang and Martin Reyners (2012) Tsunami hazard posed to New Zealand by the Kermadec and Southern New Hebrides subduction margins: an assessment based on plate boundary kinematics, inter-seismic coupling and historical seismicity. Pure Appl. Geophys. 169: 1-35.
	Inundation modelling around Poverty Bay, including Gisborne City center, Muriwai and Wainui;	M <sub>w</sub> 9.1 and M <sub>w</sub> 9.4 distant source scenarios from South America; M <sub>w</sub> 8.8 and M <sub>w</sub> 9.0 Whole Hikurangi subduction interface rupture	Xiaoming Wang, Gegar Prasetya, William Power, Biljana. Lukovic, Hannah Brackley and Kelvin Berryman (2009). Gisborne District Council Tsunami Inundation Study, GNS Science Consultancy Report 2009/233 130 p.
Wellington	Empirical model of inundation in Wellington and Horizon regions; the rule has been used to develop tsunami evacuation zone maps (red, orange and yellow zones) around New Zealand;	Probabilistic tsunami height with a 500 year return period from regional and distant sources; Probabilistic tsunami height with a 2500 year return period from all sources	Graham Leonard (compiler), (2009). Interim tsunami evacuation planning zone boundary mapping for the Wellington and horizons regions defined by a GIS-calculated attenuation rule. GNS Science Report SR2008/30, Lower Hutt, 18p.
Canterbury	Inundation modelling in Motunau, Waikuku Beach, The Pines/Kairaki/Kaiapoi and Woodend Beach, Lyttelton Harbour, Akaroa harbour, Taumutu village and the margins of Lake Ellesmere, Rakaia River mouth, Rangitata River mouth, Browns Beach, Seaforth to Scarborough, Pareora River mouth;	South America (1868 Scenario)	Philip Gillibrand, Jade Arnold, Emily Lane, Helen Roulston and Matthew Enright (2011) Modelling coastal inundation in Canterbury from a South American tsunami. Prepared by National Institute of Water & Atmospheric Research Ltd for Environmental Canterbury. Environmental Canterbury Report R11/08.
	Inundation modelling in coastal areas of Christchurch and Kaiapoi, taking into account of the topography variation from the 2011 February earthquake;	South America (1868 Scenario)	Emily Lane, Jade Arnold, Julian Sykes and Helen Roulston (2012) Modelling coastal inundation in in Christchurch and Kaiapoi from a South America tsunami using topography from after the 2011 February earthquake. Prepared by National Institute of Water & Atmospheric Research Ltd

District	Communities/Suburbs	Tsunami Sources	References
			for Environmental Canterbury. Environmental Canterbury Report R12/38.
	Tsunami impact along Kaikoura coast	Local faults offshore Kaikoura coast (North Canterbury shelf fault, Conway Ridge fault, Kekerengu Bank thrust), submarine landslide in Kaikoura Canyon	Roy Walters, Philip Barnes and James Goff (2006): Locally generated tsunami along the Kaikoura coastal margin: Part 1. Fault ruptures, New Zealand Journal of Marine and Freshwater Research, 40(1): 1-15. Roy Walters, Philip Barnes, Keith Lewis, James Goff and Jason Fleming (2006): Locally generated tsunami along the Kaikoura coastal margin: Part 2. Submarine landslides, New Zealand Journal of Marine and Freshwater Research, 40(1): 17-28
Otago	Clutha District: Papatowai, Catlins River Mouth (including Pounaweia, New Haven, Jack's Bay), Kaka Point, Lower Clutha, Toko Mouth, Taieri Mouth;  Dunedin City: Brighton, St Kilda/St Clair, Otago Harbour, Long Beach, Aramoana, Purakanui, Harwood, Warrington, Blueskin Bay, Karitane, Waikouaiti;  Waitaki District: Taranui, Kakanui, Oamaru;	1:600-year near-source scenarios in Puysegur trench, 1:500-year distant source scenarios in South American Scenarios, offshore landslide scenarios	Emily Lane, Roy Walters, Michelle Wild, Jade Arnold, Matt Enright, Helen Roulston and Joshu Mountjoy (2007). Otago region hazards management investigation: tsunami modelling study. NIWA Client Report: CHC2007-030.  Michael Goldsmith (2012). Community vulnerable to elevated sea level and coastal tsunami events in Otago, Prepared by Michael Goldsmith, Manager Natural Hazards, Otago Regional Council. ISBN 978 0 478 37630 2  Michael Goldsmith (2012). Community vulnerability to elevated sea level and coastal tsunami events in Otago – Map Book, Prepared by Michael Goldsmith, Manager Natural Hazards, Otago Regional Council. ISBN 978 0 478 37631-9.

District	Communities/Suburbs	Tsunami Sources	References
Southland		Local sources	<p>Walters, R. A., &amp; Callaghan, F. (2005). Understanding local source tsunamis: 1820s Southland tsunami EQC04201 (Vol. CHC2005-035, pp. 27 leaves : 16 figs, 14 refs). Christchurch: NIWA.</p> <p>Downes, G., Cochran, U., Wallace, L., Reyners, M., Berryman, K., Walters, R., . . . Bell, R. (2005). EQC Project 03/490 - Understanding local source tsunamis: 1820s Southland tsunami EQC04201 (Vol. HAM2005-135, pp. 92 p.). Hamilton: NIWA and IGNS.</p>

**Table A 1.2** Tsunami research and modelling studies relevant to New Zealand.

Author(s)	Location	Reference	Source
Walters, R.A. Goff, J.	All New Zealand	(2003) <i>Assessing Tsunami Hazard Along the New Zealand Coast</i> , Science of Tsunami Hazards, 21(3): 137-153. (2002) R.A. Walters, <i>Long wave resonance on the New Zealand coast</i> . NIWA Technical Report 109, 32 pp.	Amplification estimates for distant source tsunami approaching from the east.
Power, W. Downes, G. Stirling, M.	All New Zealand	(2004) <i>Progress towards a probabilistic tsunami hazard map for New Zealand</i> . Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract OS22B-07.	South American earthquakes
Power, W.	All New Zealand	(2005) Display for Te Papa, Wellington.	26 December 2004 Indian Ocean (Sumatra) earthquake
Power, W.	All New Zealand	(2004) Display for the National Aquarium, Hawkes Bay.	1868 Peru earthquake
Gilmour, A.E.	All New Zealand	(1964) <i>Tsunami travel times to New Zealand</i> . New Zealand Oceanographic Institute Chart Misc. Series 7, 1:37,090,000. Wellington (1967) <i>Tsunami travel times to New Zealand</i> . New Zealand Journal of Marine and Freshwater Research, 1(2): 139-142.	Locations around the Pacific Ocean
de Lange, W.P. Healy, T.	Auckland	(2001) <i>Tsunami hazard for the Auckland region and Hauraki Gulf, New Zealand</i> . Natural Hazards, 24(3): 267-284.	Kerepehi fault, South America, Auckland Volcanic Field
Prasetya, G.S.	Auckland area	(1998) <i>Modelling volcanic tsunamis</i> . MSc Thesis, The University of Waikato, Hamilton, 299 pp.	Volcanic events in the Auckland Volcanic Field
Chittleborough, J.	Australia (Southeast)	(2004) <i>Tsunami waves caused by Fiordland, NZ earthquake of August 2003</i> : National Tidal Facility Australia, 7 pp.	2003 Fiordland earthquake
de Lange, W.P.	Bay of Plenty, East Cape	(1983) <i>Tsunami hazard: an investigation into the potential tsunami hazards of the Bay of Plenty Region using numerical models</i> . M.Sc. Thesis, University of Waikato, Hamilton, 250 pp.	Earthquakes and pyroclastic flows at Mayor Island and White Island
de Lange, W.P. Healy, T.	Bay of Plenty	<i>Tsunami hazards in the Bay of Plenty, New Zealand: an example of hazard analysis using numerical models</i> . Journal of Shoreline Management, 2: 177-197	South America

Author(s)	Location	Reference	Source
de Lange, W.P. Prasetya, G.S. Healy, T.	Bay of Plenty	(2001) <i>Modelling of Tsunamis Generated by Pyroclastic Flows (Ignimbrites)</i> . Natural Hazards, 24: 251-266.	Mayor Island
McKenzie, D.D.J.	Bay of Plenty	(1993) <i>Numerical modelling of tsunamis in the Bay of Plenty</i> . MSc Thesis, University of Waikato, Hamilton, 88 pp.	Earthquakes associated with Whakatane graben, and Taupo volcanic zone faults
Weir, G.J. White, S.P.	Bay of Plenty	(1982) <i>Mathematical modelling of volcanic tsunamis</i> , New Zealand Journal of Marine and Freshwater Research, 16(3/4): 373-382.	White Island volcanic events
Todd, D.	Canterbury and Otago	(1999) <i>Regional tsunami studies: Canterbury and Otago</i> , Tephra, October: 56-58.	South America
Walters, R.A. Barnes, P. Lewis, K. Goff, J., Fleming, J.	Kaikoura	(2006) Locally generated tsunami along the Kaikoura coastal margin: Part 2. Submarine landslides. New Zealand Journal of Marine and Freshwater Research 40(1): 17-28  (2004) R.A. Walters, <i>Tsunami generation, propagation, and runup</i> . Estuarine and Coastal Modelling: Proc. of the 8th International Conference, edited by M.L. Spaulding, ASCE: 423-438.  (2005) R.A. Walters, <i>Coastal Ocean models: Two useful finite element methods</i> . Continental Shelf Research 25: 775-793.	Submarine landslides, landslide in Kaikoura Canyon
Walters, R.A. Barnes, P. Goff, J.	Kaikoura	(2006) Locally generated tsunami along the Kaikoura coastal margin: Part 1. Fault ruptures. New Zealand Journal of Marine and Freshwater Research, 40(1) 1-16..  (2005) R.A. Walters, <i>A semi-implicit finite element model for non-hydrostatic (dispersive) surface waves</i> . International Journal for Numerical Methods in Fluids 49(7): 721-737.	Kaikoura thrust fault
Walters, R.A.	Hawkes Bay	(2004) Display for the National Aquarium, Hawkes Bay.	Earthquakes on the Lachlan fault
de Lange, W.P.	Poverty Bay	(1997) <i>Tsunami hazard associated with marl diapirism off Poverty Bay, New Zealand</i> . In: D.N.B. Skinner (Ed.), Geological Society of New Zealand 1997 Annual Conference. Geological Society of New Zealand, Wellington, p. 49.	Mud volcanism

Author(s)	Location	Reference	Source
de Lange, W.P. Healy, T.	Poverty Bay	(1997) <i>Numerical modelling of tsunamis associated with marl diapirism off Poverty Bay, New Zealand</i> , Combined Australasian Coastal Engineering and Ports Conference, Christchurch: 1043-1047.	Mud volcanism
Magill, C.	Poverty Bay	(2001) <i>Numerical modelling of tsunami generated by mass movement</i> . MSc thesis, University of Waikato, 198.	Landslides
Cochran, U. G. Downes, G. Walters, R. et al.	Southland	EQC report (in preparation)	Earthquakes on the southern portion of the Alpine fault and within the Puysegur trench.
Magill, C.R.	Lake Tarawera, Poverty Bay	(2001) Numerical modelling of tsunami generated by mass movement. MSc Thesis, University of Waikato, Hamilton, 198 pp.	Pyroclastic flow (Tarawera), Landslide (Poverty Bay).
de Lange, W.P. Magill, C.R. Nairn, J.A. Hodgson, K.	Lake Tarawera	(2002) <i>Tsunami generation by pyroclastic flows entering Lake Tarawera</i> , Eos, 83(22:supplement): WP54.	Tarawera volcano
de Lange, W.P. Chicks, L. Healy, T.	Firth of Thames	(2001) <i>Potential tsunami hazard associated with the Kerepehi Fault, Firth of Thames, New Zealand</i> . Natural Hazards, 24(3): 309-318. (1999) <i>Tsunami hazard and inundation modelling for the Firth of Thames</i> , Tephra, October: 51-55.	Kerepehi fault, South America, Auckland Volcanic Field
Chick, L.M.	Firth of Thames, Hauraki Gulf	(1999) <i>Potential tsunami hazard associated with the Kerepehi Fault, Hauraki Gulf, New Zealand</i> . MSc Thesis, The University of Waikato, Hamilton, 284 pp.	Earthquakes on Kerepehi fault
Butcher, C.N. Gilmour, A.E.	Wellington and Lyttelton Harbours	(1987) <i>Free oscillations in Wellington and Lyttelton Harbours</i> . DFMS Reports, 1: 3-10.	Chile 1960 and Alaska 1964 earthquakes
Abraham, E.R.C.	Wellington Harbour	(1997) <i>Seiche modes of Wellington Harbour, New Zealand</i> . New Zealand Journal of Marine and Freshwater Research, 31(2): 191-200.	
Barnett, A. Beanland, S. Taylor, R.G.	Wellington Harbour (Te Papa)	(1991) <i>Tsunami and Seiche Computation for Wellington Harbour</i> , Proceedings of Pacific Conference on Earthquake Engineering, Vol. 2, Auckland.	Crustal earthquakes in Cook Strait and South American earthquakes.

Author(s)	Location	Reference	Source
Gilmour, A. Stanton, B.	Wellington Region	(1990) <i>Tsunami Hazards in the Wellington Region</i> , Report for Wellington Regional Council, by DSIR.	Crustal earthquakes in Cook Strait and South American earthquakes.
Power, W. Downes, G. McSaveney, M. Beavan, J. Hancox, G.	West Coast	(2003) <i>The Fiordland earthquake and tsunami, New Zealand, 21 August 2003</i> , Proceedings of the IUGG Tsunami Workshop 2003 and the International Workshop, Tsunamis in the South Pacific, Kluwer.	2003 Fiordland earthquake
Power, W.L. Reyners, M.E. Wallace, L.M.	East Coast	(2005) Source models of tsunamigenic earthquakes on the Hikurangi Plate interface. 1 p. In: <i>USGS Tsunami Sources Workshop 2006: Great Earthquake Tsunami Sources: Empiricism &amp; Beyond, April 21-22, 2005</i> . US Geological Survey.	Hikurangi Margin
Leonard, G.S. Johnston, D.M. Downes, G.L. Power, W.L. Paton, D.	All New Zealand	(2005) Understanding effective societal response to warnings and development of national guidelines for tsunami evacuation mapping. p. 24-25 In: <i>Living on the edge: coastal sustainability: NZCS Conference, Kaikoura 2005</i> . [Auckland]: New Zealand Coastal Society.	Locations around the Pacific Ocean
Leonard, G.S. Johnston, D.M. Downes, G.L. Power, W.L. Lukovic, B. Paton, D. Brounts, H.	All New Zealand	(2005) Tsunami evacuation zone mapping for rapid national use: a draft method allowing for varied risk, evolving tsunami models and human behaviour. p. 36-37 In: <i>Conference proceedings: 7th New Zealand Natural Hazards Management Conference, Christchurch, 23-24 August 2005</i> . Lower Hutt, GNS Science. GNS Science miscellaneous series 8	Locations around the Pacific Ocean
Power, W.L.	Wellington Harbor	(2007) Response of Wellington Harbour to the 2007 Solomon Islands and Peru tsunamis. p. 133 In: Mortimer, N.; Wallace, L.M. (Eds.) <i>Geological Society of New Zealand &amp; New Zealand Geophysical Society Joint Annual Conference: launching International Year of Planet Earth, 26-29 November 2007, Tauranga: programme and abstracts</i> . Geological Society of New Zealand. Geological Society of New Zealand miscellaneous publication 123A.	Solomon Islands, Peru

Author(s)	Location	Reference	Source
Power, W.L. Lukovic, B.	All New Zealand	(2008) Using cluster analysis to optimize tsunami evacuation zones. Abstract NG23A-1113 In: <i>2008 AGU Fall Meeting, 15-19 December, San Francisco: abstracts</i> . Washington, DC: American Geophysical Union. Eos 89(53:supplement)	subduction zone earthquakes
Power, W.L.; Cousins, W.J.; King, A.B.; Destegul, U.	Cook Strait	(2008) Tsunami hazards of Cook Strait. p. 72 In: Wysoczanski, R. (comp.) <i>Geological Society of New Zealand, New Zealand Geophysical Society, New Zealand Geochemical &amp; Mineralogical Society joint annual conference: Geosciences '08: programme and abstracts</i> . Lower Hutt: Geological Society of New Zealand. Geological Society of New Zealand miscellaneous publication 125A.	Faults within Cook Strait, e.g., Wairarapa Fault, Hikurangi subduction zone, Wellington fault
Wang, X. Prasetya, G. Power, W.L.	Poverty Bay, Gisborne	(2009) Tsunami inundation modeling in Poverty Bay, New Zealand: preparedness for potential tsunamis from distant and local sources. Abstract SE58-A011 In: <i>6th Annual Meeting AOGS, 11 to 15 August 2009, Singapore: abstracts</i> . Singapore: Asia Oceania Geosciences Society.	South America, Hikurangi subduction interface/Outer rise, Ariel Bank fault, Gable End fault, Lachlan fault
Wang,X. Power, W.L. Bell, R.E. Downes, G.L. Holden, C.	Gisborne	(2009) Slow rupture of the March 1947 Gisborne earthquake suggested by tsunami modelling. p. 221 In: Barrell, D.J.A.; Tulloch, A.J. (Eds.) <i>Geological Society of New Zealand &amp; New Zealand Geophysical Society Joint Annual Conference, Oamaru, 23-27 November 2009: programme and abstracts</i> . Wellington: Geological Society of New Zealand. Geological Society of New Zealand miscellaneous publication 128A.	Hikurangi Margin
Power, W.L. Prasetya, G. Wang, X. Wilson, K.J.	Southland	(2009) The Fiordland 2009 tsunami: observations and interpretation. p. 173 In: Barrell, D.J.A.; Tulloch, A.J. (eds) <i>Geological Society of New Zealand &amp; New Zealand Geophysical Society Joint Annual Conference, Oamaru, 23-27 November 2009: programme and abstracts</i> . Wellington: Geological Society of New Zealand. Geological Society of New Zealand miscellaneous publication 128A.	Fiordland fault

Author(s)	Location	Reference	Source
Bell, R.E. Wang, X. Power, W.L. Downes, G.L. Holden, C.	East Coast, Gisborne	(2009) Hikurangi Margin tsunami earthquake generated by slip over a subducted seamount. p. 18 In: Barrell, D.J.A.; Tulloch, A.J. (Eds.) <i>Geological Society of New Zealand &amp; New Zealand Geophysical Society Joint Annual Conference, Oamaru, 23-27 November 2009: programme and abstracts</i> . Wellington: Geological Society of New Zealand. Geological Society of New Zealand miscellaneous publication 128A.	Hikurangi Margin
Leonard, G.S. Johnston, D.M. Power, W.L. Coetzee, D. Downes, G.L. Lukovic, B.	All New Zealand	(2010) A national tsunami evacuation mapping framework: warning preparedness for communities integrating social and geoscience best practice. p. 168 In: Hoskin, P.; Hikuroa, D.; Eccles, J. (conveners) <i>GeoNZ 2010: geoscience, geothermal: abstract volume: Auckland, 21-24 November 2010</i> . Wellington: Geoscience Society of New Zealand. Geoscience Society of New Zealand miscellaneous publication 129A.	All sources
Gale, N.H. Gledhill, K.R. Power, W.L.	All New Zealand	(2010) Tsunami threats: evaluation and advice. p. 101 In: Hoskin, P.; Hikuroa, D.; Eccles, J. (conveners) <i>GeoNZ 2010: geoscience, geothermal: abstract volume: Auckland, 21-24 November 2010</i> . Wellington: Geoscience Society of New Zealand. Geoscience Society of New Zealand miscellaneous publication 129A.	All sources
Power, W.L. Clark, K.J. Beavan, R.J. Wang, X. Prasetya, G. Holden, C. Wallace, L.M.		(2011) The 2009 South Pacific tsunami: implications for tsunami hazard in the South Pacific. Abstract 4610 In: <i>XXV IUGG General Assembly, Melbourne, Australia, 28 June - 7 July 2011: abstracts</i> . IUGG.	Tonga trench
Leonard, G.S. Power, W.L. Johnston, D.M. Coetzee, D. Downes, G.L.	All New Zealand	(2011) The New Zealand National Tsunami Evacuation Mapping Framework: from modelling and warning to community preparedness. Abstract 4601 In: <i>XXV IUGG General Assembly, Melbourne, Australia, 28 June - 7 July 2011: abstracts</i> . IUGG.	All sources

<b>Author(s)</b>	<b>Location</b>	<b>Reference</b>	<b>Source</b>
Cousins, W.J. Power, W.L. Destegul, U. King, A.B.	Wellington Region	(2008) Earthquake and tsunami losses from major earthquakes affecting the Wellington Region. Benfield Limited. 18 p.	Wellington fault, Wairarapa fault, Booboo fault, Hikurangi subduction zone
Leonard, G.S. Power, W.L. Lukovic, B. Smith, W.D. Langridge, R.M. Johnston, D.M. Downes, G.L.	All New Zealand	(2008) Interim tsunami evacuation planning zone boundary mapping for the Wellington and Horizons regions defined by a GIS-calculated attenuation rule. Lower Hutt: GNS Science. GNS Science report 2008/30. 18 p.	All Sources
Power, W.L. Gale, N.H. Lukovic, B. Gledhill, K.R. Clitheroe, G. Berryman, K.R. Prasetya, G.	All New Zealand	(2010) Use of numerical models to inform distant-source tsunami warnings. Lower Hutt: GNS Science. GNS Science report 2010/11. 22 p.	Distant Sources
Smith, W.D. Power, W.L. Lukovic, B. Cousins, W.J.	Wanganui	(2007) Wanganui tsunami risk assessment. GNS Science consultancy report 2007/308. 10 p.	All Sources
Wright, K.C. Baldi, M. Van Dissen, R.J. Salinger, J. Dellow, G.D. Page, M.J. Power, W.L. King, D. Lindsay, J.	Auckland Region	(2009) Natural hazards and their impacts, Auckland region. Auckland Regional Council Technical Report No.010 February 2009.	Local, Regional and distant sources
Power, W.L. Reyners, M.E. Wallace, L.M.	East Coast	(2008) Tsunami hazard posed by earthquakes on the Hikurangi subduction zone interface. GNS Science consultancy report 2008/40. 58 p.	Hikurangi subduction interface
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Cousins, W.J. Power, W.L. Destegul, U. King, A.B. Trevethick, R. Blong, R. Weir, B. Miliauskas, B.	Wellington Region	(2009) Earthquake and tsunami losses from major earthquakes affecting the Wellington region. Paper 24 In: Why do we still tolerate buildings that are unsafe in earthquakes: New Zealand Society for Earthquake Engineering 2009 Conference, 3-5 April, Christchurch, New Zealand. Wellington, NZ: New Zealand Society for Earthquake Engineering.	Wellington fault, Wairarapa fault, subduction zone to Cook Strait
Power, W.L. Downes, G.L. McSaveney, M.J. Beavan, R.J. Hancox, G.T.	South Coast	(2006) The Fiordland earthquake and tsunami, New Zealand, 21 August 2003. p. 31-42 In: Satake, K. (Ed.) Tsunamis : case studies and recent developments. Berlin: Springer Dordrecht. Advances in natural and technological hazards research 23.	Fiordland fault
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Prasetya, G. Wang, X. Palmer, N.G.	Tiwai Point	(2010) Tsunami inundation modelling for Tiwai Point. GNS Science consultancy report 2010/293, 75 p.	Subduction zone in Peru, Puysegur trench, Fiordland fault
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Chagué-Goff, C.; Goff, J.R.	Northland Region	(2006) Tsunami hazard assessment for the Northland region. NIWA Client Report CHC2006-069.	South America, Aleutian Islands, Tonga-Kermadec, Kuril Islands, Krakatau eruption
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Goff, J. Walters, R. Lamarche, G. Wright, I. Chagué-Goff, C.	Auckland Region	(2005) Tsunami Overview Study. Auckland Regional Council Technical Publication No.280.	South America, Aleutian Islands, Kuril Islands, Solomon Islands, Kamchatka, Krakatau Volcano, Kermadec trench, Local sources inside Hauraki Gulf such as Hauraki graben and Rangitoto Volcano
Walters, R. Barnes, P. Goff, J.	Kaikoura coast	(2006) Locally generated tsunami along the Kaikoura coastal margin: Part 1. Fault ruptures, New Zealand Journal of Marine and Freshwater Research, 40(1): 1-16	Local faults in Kaikoura margin

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Hayes; G.P. Furlong, K.P.	South Coast	(2010) Quantifying potential tsunami hazard in the Puysegur subduction zone, south of New Zealand. Geophysical Journal International, 183(3): 1512–1524.	Puysegur subduction zone

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Hayes, G.P. Furlong, K.P. Ammon, C.J.	South coast	(2009) Intraplate deformation adjacent to the Macquarie Ridge south of New Zealand—the tectonic evolution of a complex plate boundary, <i>Tectonophysics</i> , 463, 1-14. doi:10.1016/j.tecto.2008.09.024.	Macquarie Ridge
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