

# Considered Faults

Fault name	Year	Mw	Depth	Status	GeoNet Link	SRF status	Reference material
Kaikoura	2016	7.8	15km	We have an SRF.  Pre made srf found	<a href="https://www.geonet.org.nz/earthquake/2016p858000">https://www.geonet.org.nz/earthquake/2016p858000</a>	Bespoke SRF	
East Cape	2016	7.1	22km		<a href="https://www.geonet.org.nz/earthquake/2016p661332">https://www.geonet.org.nz/earthquake/2016p661332</a>	SRF from GCMT	<a href="#">source</a>
Wilberforce	2015	6.0	5km	We have an SRF  Pre made srf found	<a href="https://www.geonet.org.nz/earthquake/2015p012816">https://www.geonet.org.nz/earthquake/2015p012816</a>	Bespoke SRF	
Eketahuna	2014	6.2	34km	Real-time simulation done  Mw may be too low  Pre made srf found	<a href="https://www.geonet.org.nz/earthquake/2014p051675">https://www.geonet.org.nz/earthquake/2014p051675</a>	Bespoke SRF	<a href="#">source.pdf</a>  <a href="#">source</a>
Lake Grassmere	2013	6.6	7km		<a href="https://www.geonet.org.nz/earthquake/2013p613797">https://www.geonet.org.nz/earthquake/2013p613797</a>	SRF from corrected GCMT	<a href="#">source</a>
Cook Strait	2013	6.5	16km		<a href="https://www.geonet.org.nz/earthquake/2013p543824">https://www.geonet.org.nz/earthquake/2013p543824</a>	SRF from GCMT	<a href="#">source.pdf</a>  <a href="#">Eketahuna_2014_Cook_Straight_2013.pdf</a>
Christchurch	2011 (Dec)	5.9	7km		<a href="https://www.geonet.org.nz/earthquake/3631380">https://www.geonet.org.nz/earthquake/3631380</a>	SRF from corrected GCMT	
Christchurch	2011 (June)	6.0	7km	We have an SRF  Pre made srf found	<a href="https://www.geonet.org.nz/earthquake/3528839">https://www.geonet.org.nz/earthquake/3528839</a>	Bespoke SRF	
Christchurch	2011	6.2	5km	We have an SRF  Pre made srf found	<a href="https://www.geonet.org.nz/earthquake/3468575">https://www.geonet.org.nz/earthquake/3468575</a>	Bespoke SRF	
Darfield	2010	7.2	11km	We have an SRF  Pre made srf found	<a href="https://www.geonet.org.nz/earthquake/3366146">https://www.geonet.org.nz/earthquake/3366146</a>	Bespoke SRF	
Dusky Sounds	2009	7.8	12km		<a href="https://www.geonet.org.nz/earthquake/3124785">https://www.geonet.org.nz/earthquake/3124785</a>	SRF from GCMT	<a href="#">Beavan_DuskySoundSourceModelGps_GJI_2010.pdf</a>  <a href="#">Fry_DuskySoundEq2009_BNZSEE_2010.pdf</a>
Gisborne	2007	6.7	33km		<a href="https://www.geonet.org.nz/earthquake/2839343">https://www.geonet.org.nz/earthquake/2839343</a>	SRF from GCMT	<a href="#">Gisbourne_2007_Mw6p6.pdf</a>
George Sound	2007	6.7	5km		<a href="https://www.geonet.org.nz/earthquake/2808298">https://www.geonet.org.nz/earthquake/2808298</a>	SRF from GCMT	<a href="#">George_sound_2007_Mw6p7.pdf</a>
Fiordland	2003	7.2	24km		<a href="https://www.geonet.org.nz/earthquake/2103645">https://www.geonet.org.nz/earthquake/2103645</a>	SRF from GCMT	<a href="#">McGinty_Fiordland2003earthquakesource_GJI_2007.pdf</a>
<b>Faults not simulated</b>							
	2007	6.6	18km		<a href="https://www.geonet.org.nz/earthquake/2801205">https://www.geonet.org.nz/earthquake/2801205</a>	Not included currently	
	2018	6.7	126km	Geonet: unnoticable	<a href="https://www.geonet.org.nz/earthquake/2018p681569">https://www.geonet.org.nz/earthquake/2018p681569</a>	Not included currently	
	2011	6.6	86km	475km NE of Whakatane	<a href="https://www.geonet.org.nz/earthquake/3499092">https://www.geonet.org.nz/earthquake/3499092</a>	Not included currently	
	2014	6.5	33km	450 km north-east of Whakatane	<a href="https://www.geonet.org.nz/earthquake/2014p773447">https://www.geonet.org.nz/earthquake/2014p773447</a>	Not included currently	
	2001	7.1	33km	390 km north-east of Gisborne	<a href="https://www.geonet.org.nz/earthquake/1780673">https://www.geonet.org.nz/earthquake/1780673</a>	Not included currently	
	2001	6.6	12km	155 km north-east of Te Araroa	<a href="https://www.geonet.org.nz/earthquake/2060807">https://www.geonet.org.nz/earthquake/2060807</a>	Not included currently	

	2016	6.7	5km	25 km east of Hanmer Springs	<a href="https://www.geonet.org.nz/earthquake/2016p859524">https://www.geonet.org.nz/earthquake/2016p859524</a>	Not included currently	
	2004	7.0	12km	180 km north-west of Snares Islands	<a href="https://www.geonet.org.nz/earthquake/2326055">https://www.geonet.org.nz/earthquake/2326055</a>	Not included currently	
	2007	6.6	18km	220 km south-west of Snares Islands	<a href="https://www.geonet.org.nz/earthquake/2801205">https://www.geonet.org.nz/earthquake/2801205</a>	Not included currently	
<b>Older Events without CMT</b>							
Lake Rotoma	2004	5.4	5km	25 km north-east of Rotorua	<a href="https://www.geonet.org.nz/earthquake/2266243">https://www.geonet.org.nz/earthquake/2266243</a>	Not included currently	
Secretary Island	1993	6.8	5km	80 km west of Te Anau	<a href="https://www.geonet.org.nz/earthquake/471730">https://www.geonet.org.nz/earthquake/471730</a>	Not included currently	
Weber II	1990	6.4	30km	15 km south-west of Porangahau	<a href="https://www.geonet.org.nz/earthquake/125056">https://www.geonet.org.nz/earthquake/125056</a>	Not included currently	
Lake Tennyson	1990	5.9	13km	30 km north-west of Hanmer Springs	<a href="https://www.geonet.org.nz/earthquake/97781">https://www.geonet.org.nz/earthquake/97781</a>	Not included currently	
Te Anau	1988	6.7	73km	45 km north-west of Te Anau	<a href="https://www.geonet.org.nz/earthquake/16899">https://www.geonet.org.nz/earthquake/16899</a>	Not included currently	
Edgecumbe	1987	6.5	10km	15 km north-west of Whakatane	<a href="https://www.geonet.org.nz/earthquake/04228">https://www.geonet.org.nz/earthquake/04228</a>	Not included currently	
Waiotapu	1983	4.6	5km	25 km south of Rotorua	<a href="https://www.geonet.org.nz/earthquake/1564800">https://www.geonet.org.nz/earthquake/1564800</a>	Not included currently	
Napier-Taradale	1980	5.7	30km	5 km south of Hastings	<a href="https://www.geonet.org.nz/earthquake/1561256">https://www.geonet.org.nz/earthquake/1561256</a>	Not included currently	
Waikato	1976	5.1	12km	20 km south-east of Te Awamutu	<a href="https://www.geonet.org.nz/earthquake/1558120">https://www.geonet.org.nz/earthquake/1558120</a>	Not included currently	
Inangahua	1968	7.1	12km	20 km west of Murchison	<a href="https://www.geonet.org.nz/earthquake/1550210">https://www.geonet.org.nz/earthquake/1550210</a>	Not included currently	
Seddon	1966	5.8	12km	35 km east of Seddon	<a href="https://www.geonet.org.nz/earthquake/1549063">https://www.geonet.org.nz/earthquake/1549063</a>	Not included currently	
Wairarapa II	1942	6.8	40km	10 km south-west of Masterton	<a href="https://www.geonet.org.nz/earthquake/1584854">https://www.geonet.org.nz/earthquake/1584854</a>	Not included currently	
Wairarapa I	1942	6.9	12km	Within 5 km of Masterton	<a href="https://www.geonet.org.nz/earthquake/1584843">https://www.geonet.org.nz/earthquake/1584843</a>	Not included currently	
Horoeka	1934	7.2	12km	5 km east of Pongaroa	<a href="https://www.geonet.org.nz/earthquake/1584770">https://www.geonet.org.nz/earthquake/1584770</a>	Not included currently	
Hawkes Bay	1931	7.4	20km	20 km north of Napier	<a href="https://www.geonet.org.nz/earthquake/2178228">https://www.geonet.org.nz/earthquake/2178228</a>	Not included currently	
Buller (Murchison)	1929	7.3	20km	15 km north-west of Murchison	<a href="https://www.geonet.org.nz/earthquake/2178128">https://www.geonet.org.nz/earthquake/2178128</a>	Not included currently	
Arthur's Pass	1929	7.0	12km	20 km north-east of Arthur's Pass	<a href="https://www.geonet.org.nz/earthquake/2178125">https://www.geonet.org.nz/earthquake/2178125</a>	Not included currently	
North Canterbury	1888	7.0	12km	20 km west of Hanmer Springs	<a href="https://www.geonet.org.nz/earthquake/2178073">https://www.geonet.org.nz/earthquake/2178073</a>	Not included currently	
Cape Farewell	1868	7.2	12km	55 km north-east of Collingwood	<a href="https://www.geonet.org.nz/earthquake/2178062">https://www.geonet.org.nz/earthquake/2178062</a>	Not included currently	
Wairarapa	1855	8.2	33km	20 km west of Martinborough	<a href="https://www.geonet.org.nz/earthquake/2178057">https://www.geonet.org.nz/earthquake/2178057</a>	Not included currently	
Marlborough	1848	7.4	12km	45 km south-west of Seddon	<a href="https://www.geonet.org.nz/earthquake/2177819">https://www.geonet.org.nz/earthquake/2177819</a>	Not included currently	

