

Table S1: Largest historical earthquakes in the Chilean convergent margin 1400 to present.

YEAR	LAT South	LAT North	Length [km]	Magnitude [Mw]
1430	-23.5202	-17.7696	680	9.0
1543	-21.4374	-17.7696	431	8.7
1575	-34.3101	-32.7746	204	8.0
1575	-44.8873	-37.5678	1081	9.2
1615	-19.2597	-18.0946	136	7.9
1647	-35.2626	-31.6197	484	8.0
1657	-38.5345	-36.5335	280	8.0
1730	-35.1511	-29.6821	718	8.5
1737	-42.9733	-38.8538	605	9.0
1751	-40.2730	-36.4787	537	8.5
1768	-20.9279	-17.7045	378	8.7
1796	-30.3912	-28.8484	197	7.7
1819	-29.7414	-26.1845	446	8.3
1822	-34.8717	-31.9098	393	8.0
1835	-38.3208	-34.3664	544	8.6
1837	-41.8155	-37.3512	643	8.9
1877	-22.7035	-17.5091	612	8.8
1880	-31.6281	-29.9707	214	8.2
1906	-34.5352	-31.7358	370	8.4
1922	-30.3323	-25.8162	567	8.6
1928	-34.8717	-33.4605	189	8.0
1943	-31.3869	-29.5040	242	7.9
1960	-44.8873	-37.7837	1051	9.3
1966	-26.2423	-24.9036	164	7.7
1967	-22.1337	-21.4505	81	7.4
1971	-32.3184	-31.2024	145	7.8
1985	-33.1754	-31.7358	189	7.8
1995	-24.2695	-22.4512	219	8.1
2007	-22.3881	-20.9917	166	7.7
2010	-38.4811	-34.0844	605	8.8
2014	-20.8256	-19.4935	157	8.2
2014	-21.1323	-20.3459	93	7.7
2015	-31.6281	-29.9707	214	8.3
2016	-43.5923	-42.9240	102	7.6