

Major Earthquakes of Canada

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
NATIONAL EARTHQUAKE INFORMATION CENTER
WORLD DATA CENTER A FOR SEISMOLOGY

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Major Earthquakes

1 a	Charlevoix-Kamouraska Region, Quebec	02/05/1663	mag 7.0
2	Near Montreal, Quebec	09/16/1773	mag 5.8
3 a	Charlevoix-Kamouraska Region, Quebec	12/06/1791	mag 6.0
3 b	Charlevoix-Kamouraska Region, Quebec	10/17/1800	mag 6.0
3 c	Charlevoix-Kamouraska Region, Quebec	10/02/1870	mag 6.5
4	Washington-British Columbia Border	12/15/1872	mag 7.4
5	Yukon-Alaska Border	09/04/1899	mag 8.0
6	Vancouver Island, British Columbia	12/06/1918	mag 7.0
7	Beaufort Sea	11/16/1920	mag 6.5
1 b	Charlevoix-Kamouraska Region, Quebec	03/01/1925	mag 6.7

8 a	Off Southern Queen Charlotte Islands	05/05/1929	mag 7.0
9	South of Newfoundland	11/13/1929	mag 7.2
10	Baffin Bay	11/25/1933	mag 7.3
11	Quebec-Ontario Border	11/01/1935	mag 6.2
12	West of Vancouver Island, British Columbia	02/09/1939	mag 6.5
13	Richardson Mountains	06/09/1940	mag 6.5
14	Eastern Ontario-New York Border	09/09/1944	mag 5.6
15	Vancouver Island, British Columbia	06/23/1946	mag 7.3
16	Off Queen Charlotte Islands	08/22/1949	mag 8.1
17	Alaska-British Columbia Border	02/13/1958	mag 7.9

8 b	Off Southern Queen Charlotte Islands	09/24/1970	mag 7.4
18	West of Vancouver Island, British Columbia	07/05/1972	mag 5.7
19	Yukon-Alaska Border	02/26/1979	mag 7.1
20	West of Vancouver Island, British Columbia	12/17/1980	mag 6.8
21	New Brunswick	01/09/1982	mag 5.7
22	Mackenzie Region, Northwest Territories	12/03/1985	mag 6.9
23	Saguenay Region, Quebec	11/25/1988	mag 6.0
24	Ungava Peninsula, Quebec	12/25/1989	mag 6.3
25	West of Vancouver Island, British Columbia	01/02/1992	mag 6.9
26	West of Vancouver Island, British Columbia	04/06/1992	mag 6.9

This map depicts selected epicenters of strong earthquakes (magnitude ≥ 5.6) that have occurred in or near Canada. Earthquakes in western Canada are the result of relative plate motions of the Pacific, North American, and Juan de Fuca plates. Earthquakes in ACCU Canada may be the result of differential postglacial uplift. Most earthquakes in southeastern Canada are associated with ancient geologic rift systems within the North American plate. Data sources for this map are:

National Earthquake Information Center, Preliminary Determination of Epicenters (PDE), U. S. Geological Survey.
F. M. Anglin, R. J. Wetzel, R. B. Hosser, G. C. Rodgers, and J. A. Drysdale, 1990. Seismicity Map of Canada, Geological Survey of Canada.