

Panic Prevails In Many Places As Dominion Shaken By Severe Earthquake

SERIES OF QUAKE START IN QUEBEC SHAKE ONTARIO AND EASTERN STATES, SEVEREST IN HISTORY OF DOMINION

Tremors Are Distinctly Felt in All Parts of Two Provinces.

FROM THE SAGUENAY

Property Damage Is Comparatively Slight—No Lives Are Lost.

QUEBEC SUFFERS

Panic Prevails in Many Places As Crowded Buildings Are Shaken.

Canadian Press Despatch. Quebec, March 1.—Quebec was visited by five distinct and severe earth tremors last night and early this morning, and quite a lot of damage was caused throughout the city and district. The roof of the union station was damaged, and several small buildings collapsed.

Associated Press Despatch. New York, March 1.—Old Mother Earth shook herself just a trifle last night, sending a vigorous earthquake jolt-mell throughout the northeastern part of the United States and Canada.

The tremors were noticeable for about two minutes at 9:23 o'clock and, although not strong enough to cause damage, they shook territories from northeastern New England to the Mississippi, and from the province of Ontario as far south as Wheeling, W. Va., Richmond and Louisville.

In the great centers of population—New York, Chicago, Montreal, Toronto, Philadelphia, Washington, Pittsburgh, Cleveland, Boston, Detroit and others—the quake was severe enough to alarm millions of people. In some cities, notably Detroit, hotel guests hurried into the street. In others theatres and movie halls were vacated, their patrons mistaking the quake for a serious explosion. New York's many storied canyons of steel and concrete felt the shock, too. In fact, reports from the Fordham University said that the tremors, lasting for more than two minutes, were the strongest ever felt in the metropolis. The needle of the Fordham seismograph jiggled over an amplitude of seven inches.

The disturbance appeared to have been of varied intensity. Describing the earthquake experts at Georgetown University in Washington as "very severe," the quake was said to have lasted from 15 to 20 seconds in Hartford, Conn., but for more than two minutes in other cities, including New York.

SEVEREST LOCAL QUAKE.

Canadian Press Despatch. Ottawa, March 1.—Four times more severe than any previously recorded here, was the official report of the earthquake which was a quarter of an inch.

Canadian Press Despatch. Ottawa, March 1.—Unfortunately, while the markings of the earthquake registered on the seismograph at the dominion observatory, constitute tremors are but faintly marked, due to the fact that the shocks arrived in such quick succession that the seismograph with such intensity and so quickly that it had not time to trace the progress of the earth's tremors to about two minutes, when the quake was at its worst.

"The earthquake on Saturday evening was by far the most severe registered in the history of the dominion observatory," stated A. E. Hodgson, government seismologist. "As a matter of fact, it is the fourth largest ever recorded here. The others were the Frisco and Japanese quakes, and one which occurred February 4, 1923, somewhere in the North Pacific ocean, and from which the water wave, travelling at a speed of 400 miles an hour for 3,000 miles, wrecked shipping in the harbor of Hawaii and destroyed seafloor residences.

Came From Quebec. "The earthquake felt on Saturday night was most severe for about ten minutes starting from 9:21, and it probably originated somewhere near the mouth of the Saguenay River, where the geologists have known for some time that there is serious fault in the earth's strata. It was of such a severe character when recorded here that undoubtedly would be strong

Quake Unlikely To Repeat Visit

Canadian Press Despatch. Toronto, March 1.—While the quake in Ontario was startling to those who recognized it, the officials of the meteorological office do not fear a repetition. Professor A. P. Coleman, geologist at the University of Toronto, stated tonight the quake was really insignificant as compared with those which occurred in the real earthquake zone. Fortunately, he said, Ontario was not in the earthquake zone, and there has been a destructive earthquake anywhere in the province. He felt that it might be a good many years before there would be another quake of any kind in Ontario.

enough to rock if not destroy any but solidly built building in the vicinity in which it occurred. The first time in the history of the dominion observatory the quake was recorded on the microbarograph, which records sudden changes in atmospheric pressure. The markings on the barometric reading show a sharp jag denoting the big kick made by old mother earth.

Mr. Hodgson said the earth has been found to be about as elastic as steel and that there are waves traveling through its both longitudinally and transversely. The possibility of Ottawa experiencing an earthquake of such an intensity as that which destroyed Tokyo is practically negligible, according to Prof. Stuart, director of the dominion observatory, owing to the fact that in this district the formation of the earth is very old and settled.

Affects Radio. Mr. Stuart was somewhat surprised to hear that some persons had reported "hearing" the earthquake while listening in on the radio. He said this would probably be the barometric pressure affecting the electrical instruments, such as amplifiers in the broadcasting stations.

The speed with which these earth waves travel is indicated by Mr. Hodgson, who turned up the records showing that in the quake at Tokyo, Japan, the preliminary tremors arrived, after travelling a distance of 10,000 miles, in 13 minutes, 26 seconds; the secondary wave arrived in 24 minutes, 46 seconds, and the long waves in 46 minutes, 30 seconds. Mr. Hodgson explained that the long waves are rarely felt in earthquakes, but it is the preliminary and very fast tremors which are felt most and do the most damage.

At the auditorium here 8,000 people were gathered to witness the Canada-Ottawa hockey match, and the earthquake came between periods. The building vibrated violently and a falling window created a tense atmosphere, which threatened for a few moments to bring the crowd to the verge of panic. There was a slight movement towards the doors when the vibrations apparently faded away and the crowd settled down again slightly ruffled to watch the game.

A crowd witnessing the annual pupils' concert at the Glebe collegiate institute responded quickly to the shaking of the building, and in the gallery of the assembly hall there was a pushing for the exits. Several women grew hysterical, but order was restored as the tremors became faint.

SIXTH OF AN INCH.

Canadian Press Despatch. Toronto, March 1.—Officials of the meteorological office here this evening stated that one or more earthquakes were registered on the seismograph at the observatory last night between 9:21 and 11 o'clock. The greatest movement of the ground was one-sixth of an inch. The fact that the tremors were recorded on the seismograph until 11 p.m., the officials stated, indicated two or more earthquakes, the nearest being 275 miles in a southeasterly direction. No damage was recorded.

The officials of the observatory had some difficulty in determining the exact time of the tremors owing to the fact that the record was superimposed on the seismograph, supporting their belief that there were several quakes.

Quite apart from the fact that the local officials found a mystery in the quake, from the standpoint that they felt there must have been two distinct quakes going on at the same time, the quake's vibrating was mysterious from another standpoint. And that was because of the strange conflict on the part of those who felt it and those who did not.

Quake Psychology. So many stories have been told since the quake that it almost appears as though there is such a thing

Western Ontario Towns and Cities Report Slight Damage From Shock.

WALLS ARE CRACKED

Woodstock and Stratford Residents Feel Distinct Tremors On Saturday Evening.

DISHES ARE BROKEN

Chickens Are Thrown From Their Roosts Near Wallaceburg.

Special to The Advertiser. St. Thomas, March 1.—Residents of St. Thomas experienced a severe earthquake shock Saturday evening, in common with other cities and towns of Western Ontario.

Although no great damage was caused outside of the cracking of plaster and the falling of goods from the shelves in grocery stores and breaking of dishes, the people themselves became alarmed to a certain extent.

On Talbot street residents in the apartments above the stores came rushing down their stairways to the street, even to a few in scanty night attire, expecting their home to come down upon them.

The shock was sufficient at all parts of the city to set chandeliers and pictures swinging and rattle and shake dishes from cupboards.

Woodstock

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Woodstock, March 1.—Severe earthquake disturbance was felt by residents of Woodstock at 9:30 Saturday night, when the tremors caused a decided feeling of uneasiness among apartment dwellers and others. The shocks continued over a period of about two minutes, and several persons living in upper stories of buildings are reported to have been made sick.

No damage is reported to have taken place.

Woodstock college observatory also noted the disturbance, which is the first to occur here within the lifetime of the oldest local resident.

Stratford

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Stratford, March 1.—Several resi-

as an earthquake psychology, that some people are sensitive to the vibrations, while others are not. When the quake came between periods, the meteorological official he found himself at a loss to explain it. Many instances were reported where members of families felt the tremors and noticed articles moving in their homes, while others were not aware of anything unusual.

The tremors seemed to have been felt over the entire province, but to a varying degree, according to reports covering as far west as Sarnia and from the mining districts of Northern Ontario.

While quake records are found on the local seismograph every few days, this was the first one since last Sunday, when the electric fixtures in the rooms to swing and dishes to rattle in cupboards in the kitchen.

The shocks were also noticed at the priest's house near the Blessed Sacrament church, Victoria avenue. The earth disturbance was so loud that Father Dignan and his assistants thought the movement due to the collapse of masonry at the church.

Forest

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Forest, March 1.—Earth tremors of sufficient force to shake floors and walls were plainly felt here Saturday evening. A brick was dislodged from the owner's head. Chairs and tables rocked very noticeably and caused several citizens to turn in on their radio sets, where they soon heard the event being generally confirmed.

Wallaceburg

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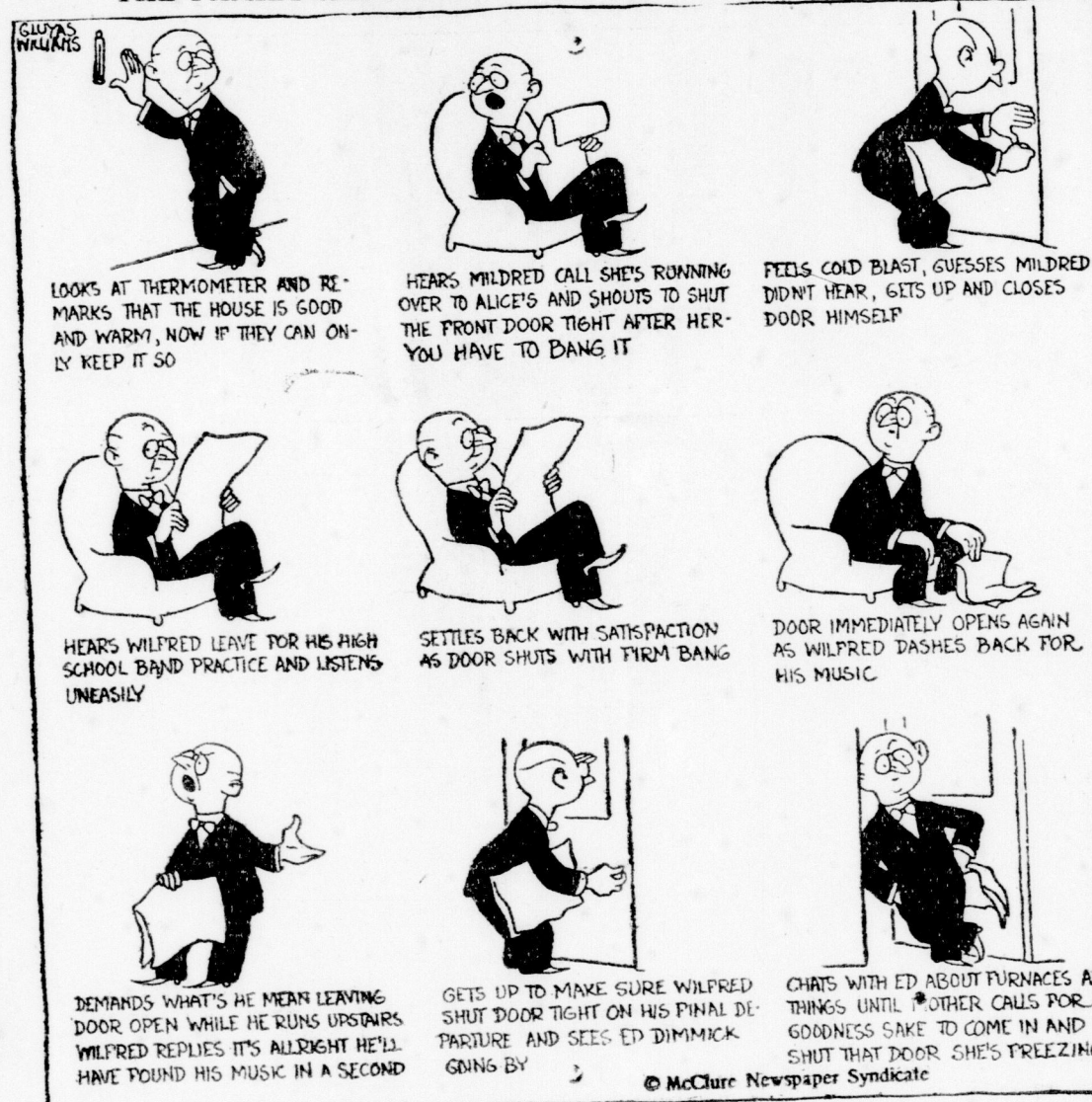
Wallaceburg, March 1.—The earthquake shock on Saturday night was plainly felt here. Although no damage was done kitchenware on shelves was thrown to the floor and the moving of pictures on walls was visible. On a farm close by chickens at roost were reported to have been thrown off their roosts. People in their homes complain of a feeling of dizziness during the quake.

Wingham

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Wingham, March 1.—Distinct earthquake shocks were felt here at about 9:35 this evening. Articles on shelves in some of the stores

THE FAMILY ALBUM—KEEPING THE FRONT DOOR SHUT.



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den of Stratford, particularly in the downtown district, quite distinctly felt earth tremors last night shortly after 9 o'clock.

Many reported that pictures on the walls were shaken and the chairs were sent sliding.

Goderich

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Goderich, March 1.—Saturday evening about 9:30 an earth tremor of quite decided force was felt throughout the town and neighborhood. The movement was at first felt quite violently, and continued about a minute and a half in less noticeable waves. Although not violent enough to displace anything, many reports are given of furniture moving and the shaking of electric light fixtures and other hanging objects.

In the memory of the oldest residents, this is the first quake that has ever been felt locally of any decided nature, although some recollect a very slight tremor some years ago.

Sarnia

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Sarnia, March 1.—Distinct earthquake tremors were felt last night, a number of people reporting articles knocked off walls and stores reporting small articles falling from the shelves.

No damage reported here.

Chatham

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Chatham, March 1.—Earth shocks lasting twenty seconds were felt here at 9:25 Saturday evening, but no damage resulted.

Brucar Road gives the most detailed information. Sitting with two friends in his home on Queen street, he was alarmed by the earth rumbling, which caused the electric fixtures in the rooms to swing and dishes to rattle in cupboards in the kitchen.

The shocks were also noticed at the priest's house near the Blessed Sacrament church, Victoria avenue. The earth disturbance was so loud that Father Dignan and his assistants thought the movement due to the collapse of masonry at the church.

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