

MCGILL UNIVERSITY ARCHIVES	
ACC. NO.	2211/57
REF.	60

Pemission N^o,
Nov. 20. 1877.

Dr. J. W. Dawson

Dear Sir

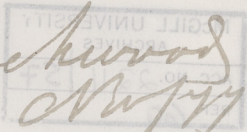
Enclose herewith my
note on Earthquake of Nov. 4. 1877
as requested. It is to be printed
with others in Amer. Journal
of Science.

Hoping it may be in time
for your use I remain

Yours very truly

C. J. Rockwood

Rockwood
New York



Committed by
Nov. 20. 1877

W. W. Benson
Dear Sir

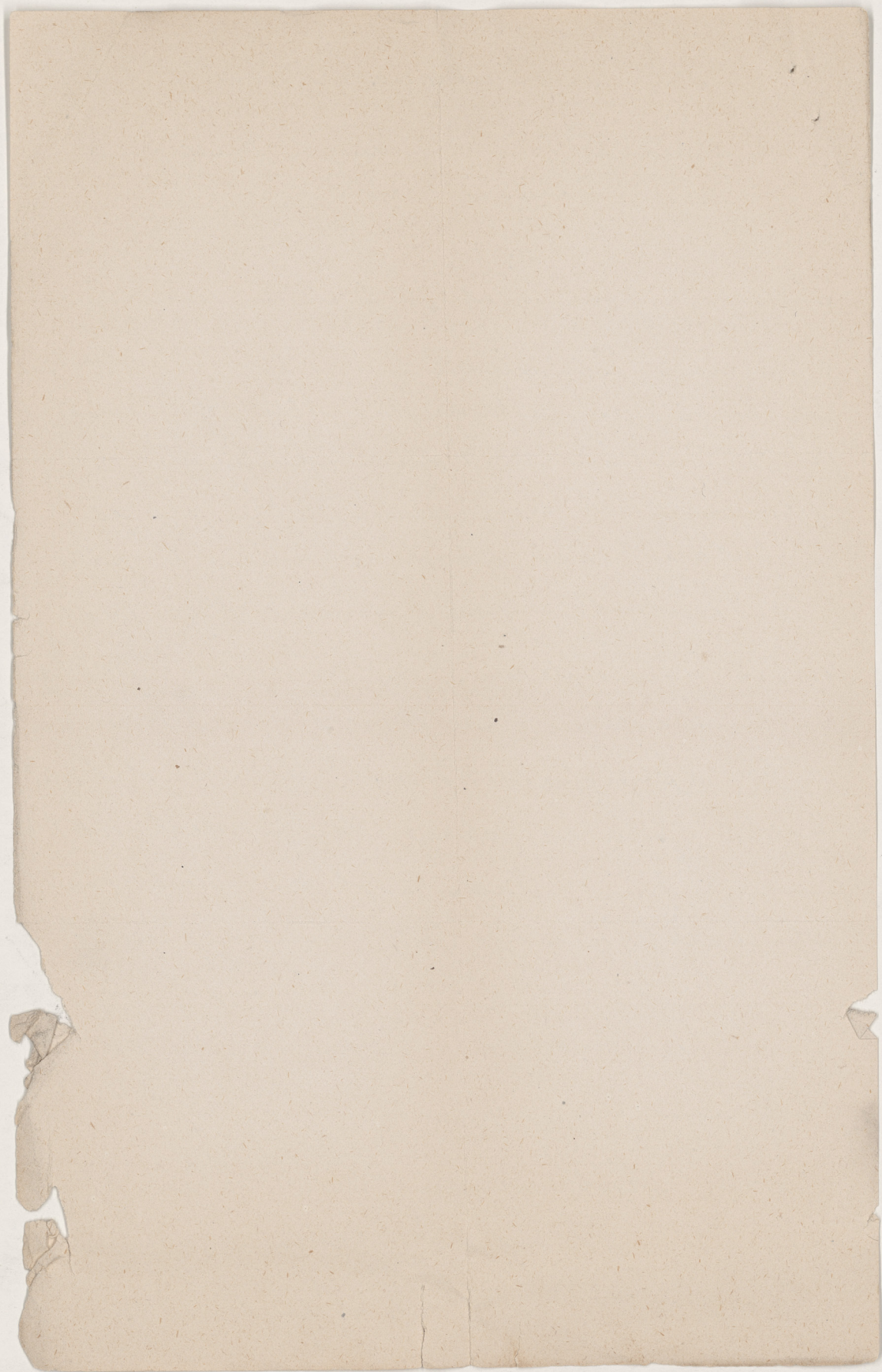
Enclosed herewith are
sent a Certificate of Nov. 4. 1877
as requested. It is the printed
with other in Gen. Journal
of Science.
If you wish to see it in
for your use & opinion
Yours very truly
W. W. Benson

Note on Earthquake of Nov. 4, 1897

to appear in Jan. No. American Journal of
Science parts

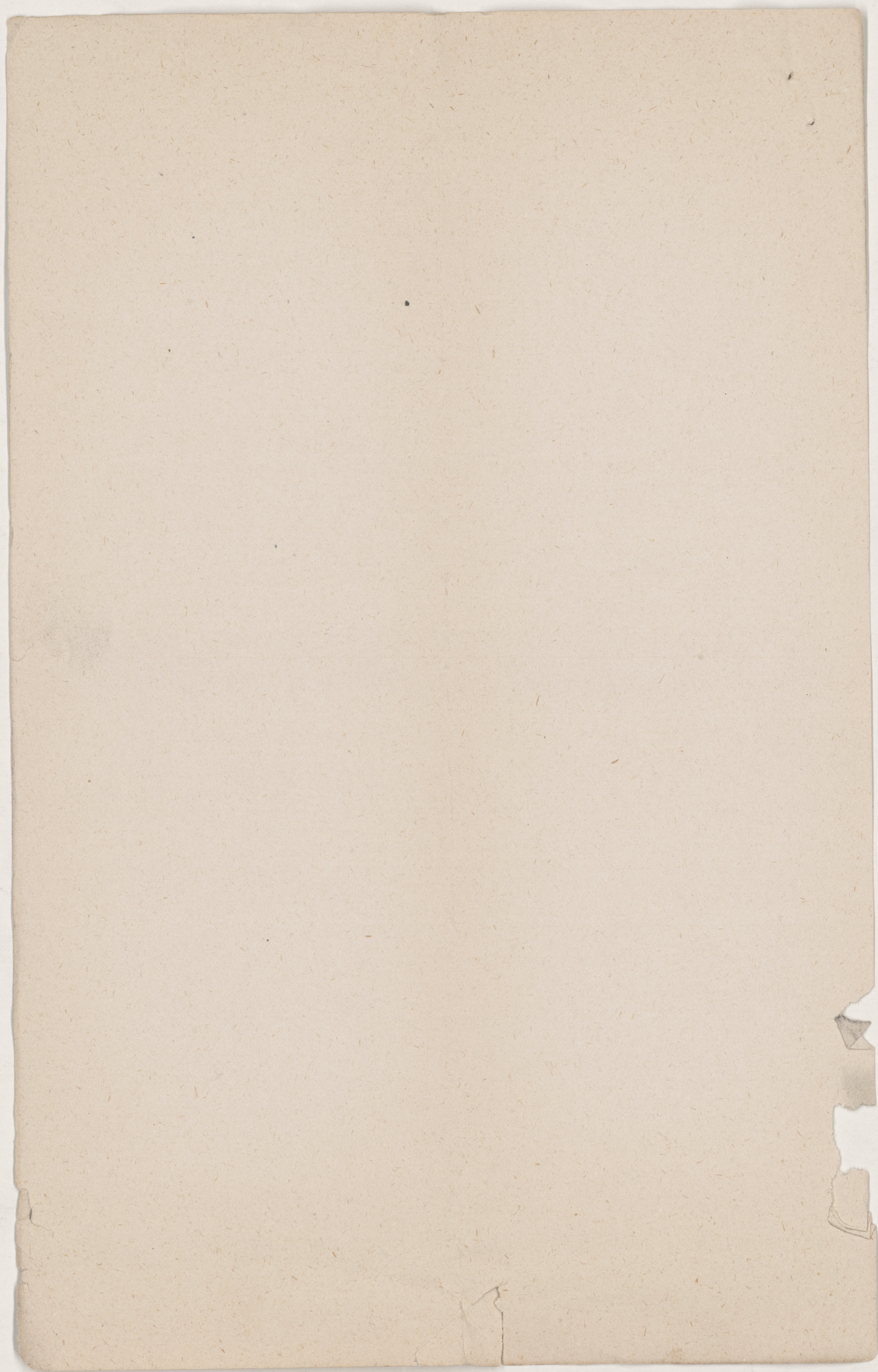
Nov. 4, 1897 — About 2 A.M. a rather

severe earthquake was felt throughout a large part of Canada New York and New England. It was reported from Ottawa, Perth and many other places in Ontario east of a line joining Kingston and Pembroke; from Cornwall, Montreal and other points in the St. Lawrence valley as far east as Three Rivers; from Hanover N. H., Springfield Mass., Hartford Conn. & other places along the Connecticut River; from Plattsburgh N.Y., Burlington Vt., Whitehall, Saratoga N.Y., Bennington Vt. and the valley of Lake Champlain and the Hudson as far south as Albany; and finally from Utica Rome, Auburn and the Mohawk Valley. It was probably felt throughout the whole Adirondack



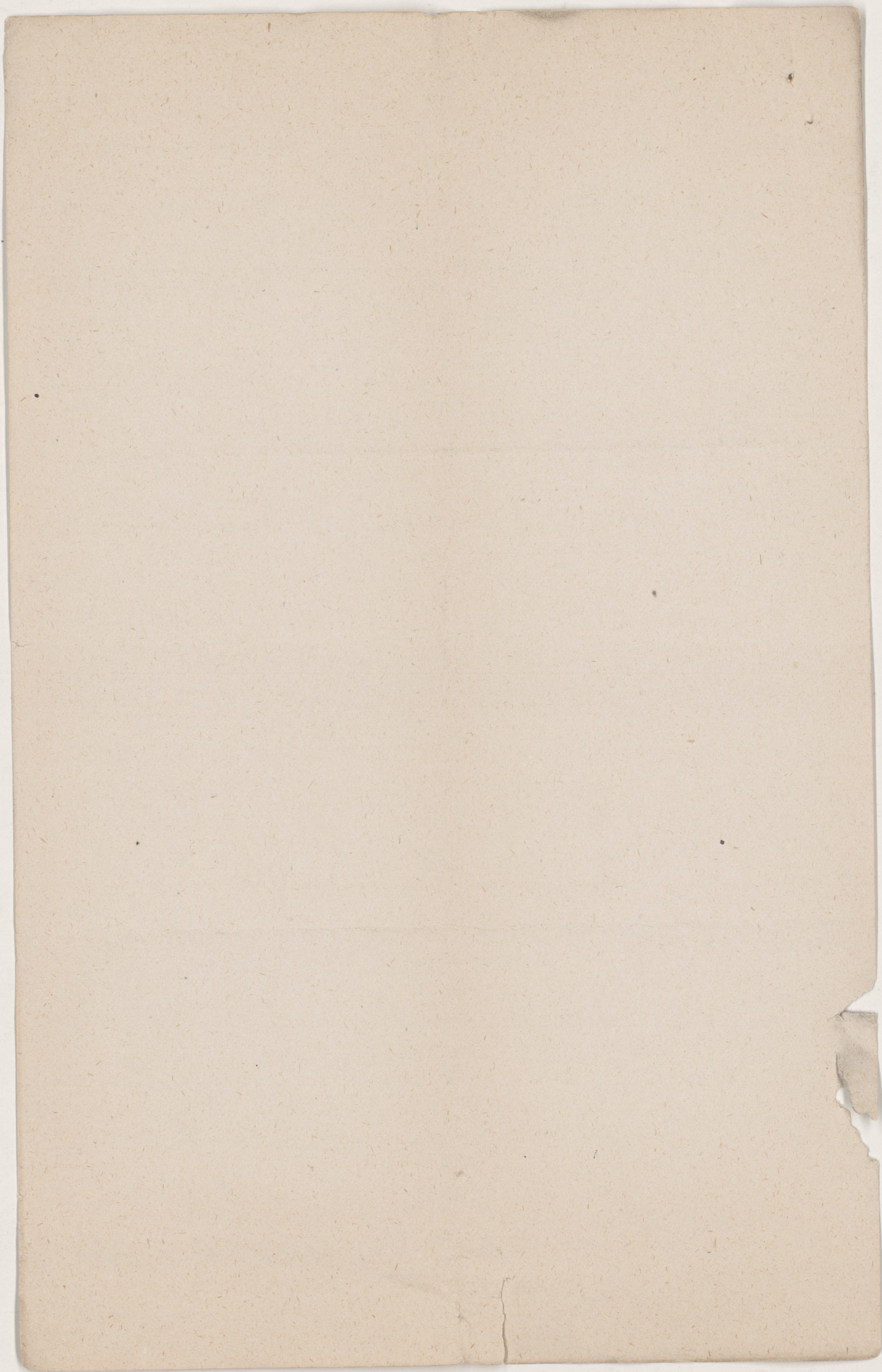
region which is thus enclosed, but whence no reports could be expected. It would thus seem to have been felt over the irregular trapezium, whose angles are marked by Pembroke Ont., Three Rivers P.Q., Hartford Conn, and Auburn N.Y. and which is therefore some 200 miles on its northern and southern sides, about 300 miles on the east and 175 miles on the west. -

In regard to the exact time of the shock, the reports differ too much among themselves and are mostly of too vague a nature to permit any deductions therefrom as to the direction or rate of progress of the vibration. Comparing reports from thirty six localities, ⁱⁿ which the time is given, and rejecting those as quite wide of the truth, we find them cluster closely about 2. A.M.; none earlier than 1.45 Am



none later than 2:10 Am., most being between 1.50 and 2. Am. local time. - The ones which appear most reliably accurate are Montreal 1.50 Am. (J.W. Dawson), Hartford Conn. 1.56 (Ed. Hartford Courant) = 1.52 Montreal time, and Albany 1.53 (Dudley Observatory) = 1.54 Montreal time. The Hartford time is also confirmed by an apparently careful report from Windsor Conn. giving 1.55 Am. - Many (25) give in a general way "2 Am.", "about 2. Am.", etc. etc. -

The duration in Montreal was about 20 seconds. The other reports vary from 4 or 5 seconds to 2 or 3 minutes and in one case 5 minutes. Most of them however give about half a minute. - The shock seems to have been most severe in the valley of the St. Lawrence and about Lake Champlain where the vibration was sufficient to overturn crockery, crack



ceilings, and in a few cases to throw down chimneys.

The reports are nearly unanimous that the vibration advanced from West to East, only one report (Hanover N.H.) stating it as from North to South, this however on the concurrent testimony of three observers.

In some places a rumbling noise and in others two or several shocks were reported; at Dudley Observatory "a severe shock of ten seconds duration followed after an interval of 30 seconds by a lighter one"; at Hanover N.H. "a succession of 5 or 6 waves increasing in intensity for the first third of the time and then decreasing"; - at Montreal "a low rumbling ~~noise~~ sound followed by a sharp explosion & then a tremor."

In compiling the above I have been able to compare reports from 58 stations.

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Rockwood
Emthyn
Dec/77