

1

SAINT LOUIS UNIVERSITY
SAINT LOUIS, MISSOURI

DEPARTMENT OF GEOPHYSICS
15 NORTH GRAND BOULEVARD

June 2, 1937

To the Director of the
Seismographic Station

Dear Sir:

A study is proposed of the deep earthquake which occurred April 16, 1937, 03^h14^m52^s, G.M.T. at approximately latitude 22°2 S, Longitude 179°0 E. This study will be made by Reverend A. J. Westland, S.J., studying at the Geophysical Laboratory of Saint Louis University.

For the purpose of this study we should like to secure the original records (or failing that, photographic copies of the original records) as registered at your station. The records secured on loan will be handled carefully. Originals will be returned promptly on the completion of the work.

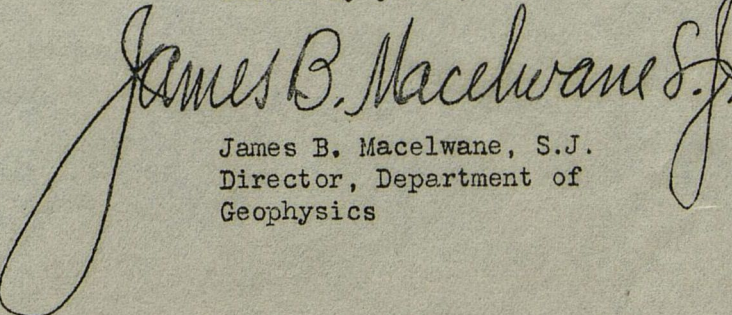
Anticipating your compliance with the above request, we enclose for your convenience a form on which to tabulate the information required in the interpretation of the records.

We ask that the records be mailed addressed to

Reverend A. J. Westland S.J.
Geophysical Laboratory
Saint Louis University
15 North Grand Boulevard
Saint Louis, Missouri, U.S.A.

Trusting that we may be favoured with your cooperation in the proposed investigation, I am

Sincerely yours,


James B. Macelwane, S.J.
Director, Department of
Geophysics

enclosure

SEISMOGRAM INTERPRETATION DATA

Station address.....
Record Identification No.....
Time Correction (to nearest second, + indicating a recorded time as slow; - indicating it as fast).....
(Is the exact minute as registered indicated by the beginning or by the end of the break? Indicated by the.....)
Average length of minute on diagram in min.....

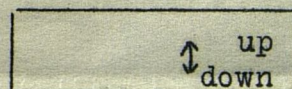
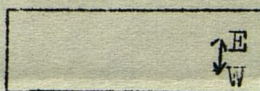
Constants of Instrument:- Type
(as Wiechert, etc.)
Mass
(Undamped period) T_0
(Static magnification) V
(Damping ratio) ϵ ; 1
(Friction) r/T_0^2
Means of damping
(Reduced Pendulum Length l)

For Galvanometrically-recording Seismographs:-
(Undamped pendulum period) T
(Undamped galvanometer period) T_1
(Distance galvanometer to drum in centimeters) A
(Damping constant) μ^2
(Transmission factor) k

Information regarding the station at which records were made:
 ϕ $^\circ$ ' λ $^\circ$ '....."

Height above Mean Sea Level in Metres.....
Nature of foundation soil or rock.....

On each seismogram please mark an arrow as illustrated,



thus indicating the interpretation to be placed on a sudden shift of the record line, in terms of the true earth movement causing the shift.

Remarks.....
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