

# THE PANAMA CANAL

DEPARTMENT OF OPERATION AND MAINTENANCE  
DIVISION OF METEOROLOGY AND HYDROGRAPHY

## EARTHQUAKE REPORT

SEISMOGRAPH STATION, BALBOA HEIGHTS

Lat. 8° 57' 39" N.

Long. 79° 33' 29" W.

Altitude of Station, 118 feet.

Seismic Record No. 94 Date May 1 1917 Greenwich mean time, midnight to midnight.

PHASE	N-S COMPONENT (Azimuth 180° 23')	E-W COMPONENT (Azimuth 90° 07')
	h. m. s.	h. m. s.
First preliminary tremors began	18-43-20	18-43-37
Second preliminary tremors began	18-51-04	18-51-24
Long waves began	18-59-10	18-59-32
Maximum	19-35-50	19-24-10
End of principal portion	19-46-00	19-38-48
End of earthquake	21-54-00	21-01-00
	mm.	mm.
Maximum amplitude	1.5	3.0
	s.	s.
Average period of waves	---	---
First preliminary tremors	---	---
Second preliminary tremors	6	12
Long waves	12	20
Maximum	12	16
End of principal portion	16	16
End portion	20	18
Period of pendulum	20	20
Magnification	35	35

Handwritten calculations:

$$\begin{array}{r} 18 \ 51 \ 04 \\ - 18 \ 43 \ 20 \\ \hline 7 \ 44 \ 44 \end{array}$$

$$\begin{array}{r} \Delta = 6140 \\ P-O = 939 \\ \hline 18 \ 51 \ 04 \\ - 18 \ 31 \ 25 \\ \hline 19 \ 19 \ 39 \end{array}$$

REMARKS: 100 K Instruments - Bosch Omori - Damping medium  
Distance about 3300 miles  
Direction ?  
Intensity I

Handwritten calculation:

$$\begin{array}{r} 18 \ 43 \ 20 \\ + 9 \ 39 \\ \hline 33 \ 41 \end{array}$$