

Ithaca Seismograph Station resumes operation.

1934  
International  
Seismological  
Centre

In February of this year our two Bosch-Omori instruments were put into operation after having been idle since June, 1929. Difficulty was experienced at first with numerous technical details, but by March sufficient progress had been made to get fair records of some shocks.

Considerable trouble has been had with the electrical contacts in the clock, but at the present writing an inexpensive photo-electric cell connection is being installed and this should aid materially in solving our chief difficulty--time control.

Although our instruments are not modern, their operation is proving of considerable interest to many students in the geology department, and it is hoped that the reports we submit will be sufficiently accurate to have some scientific value.

Herewith is our instrumental report from March 1 to September 30, 1934.

Yours very truly,

L. C. Conant, Observer.

Seismograph Station,  
Department of Geology,  
Cornell University,  
Ithaca, N. Y., U.S.A.

November 27, 1934.

The Ithaca station is grateful to the following organizations which have continued to send us reports during our period of inactivity:

Apia

Dominion Observatory, Ottawa:-  
Bibliography of Seismology  
Instrumental Reports

Florissant

Harvard:- Reprints

Hawaiian Volcano Observatory:- The Volcano Letter

Jesuit Seismological Association

Kobe

Little Rock

Oxford:- International Seismological Summary, Tables  
Reprints

Pasadena

Regis

St. Louis

U. S. Coast & Geodetic Survey:-  
United States Earthquakes.  
Instrumental Reports.

Ithaca



Seismograph Station - Department of Geology  
Cornell University

Instruments: 2 Bosch-Omori 25 kg. pendulums, N-S and E-W.  
T<sub>0</sub>: 30 seconds. Air damping; mechanical registration.

Time: Greenwich Civil. Accuracy: June 1 to Oct. 15 probably  
± 5 seconds; at other times probably ± 2 seconds.

March 1 to September 30, 1934

Date 1934	Phase	G C T h m s	Remarks
March 5	eL	12-51.4 ca	
12			Instruments out of operation from about 15 h-10 m to 16 h.
12	eP eS eSR <sub>1</sub>	18-26.3 30.6 31.7	Paper poorly smoked and record indistinct.
13	e M	13-48 ca 14-16 ca	
24	e e M	12-31.0 34.5 13-09 ca	USCGS gives O: 12-4-30 100S., 161°E.
April 15	e e M	22-36.0 ca 40.9 ca 23-38 ca	
May 4	eL	0-56.5 ca	
4	O iP ePR <sub>1</sub> iS iSR <sub>1</sub> M F	4-36-02 44-20 46-07 51-00 54-14 5- 0 ca 40 ca	Δ: 45.2°; 4990 km; 3120 mi. USCGS gives O: 4h-36.lm. 61° N.; 148° W.
6	e e e e	8-20-40 21-40 24-04 25-44	
14	e e eM	13-28.6 31.6 32.3	

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Date 1934	Phase	G C T h m s	Remarks
May 14	0 eP ePR <sub>1</sub> iS eSR <sub>1</sub> cL eM	22-12.9 21.5 23.4 28.4 31.7 32.5 38 ca	Δ: 47.5°; 5277 km.; 3277 mi. USCGS gives 0: 22h 13.0m. 59°N., 150°W.
15	e eS(?)	15-35.0 36.7	
19	0 iP iPR <sub>1</sub> iS eSR <sub>1</sub>	10-47.8 53.8 54.6 58.7 11- 0.2	Δ: 28.5°; 3165 km.; 1967 mi. USCGS gives 0: 10 h 47.8 m. 16°N., 90°W.
22	i	18-36.7 ca	Faint seismic activity from about 17h 20m to about 19h 15m.
23	e	13- 0.5 ca	Faint seismic activity
25	e e eM	13-17. ca 20.1 27.5	
June 2	e	14-01 ca	
8	e e e	5-00.5 ca 06.2 ca 08.7 ca	
13	i e	2-13-54 14-56	
13	i i	22-34-54 38-20	
15	e e e	6-45-40 45.5 ca 48-06	
18	e e e	9-29.2 ca 37.5 ca 38.5 ca	
22			Shock reported by USCGS at 18-33.8 not recorded. Paper being changed.
24	iP	6-09-44	

Date 1934	Phase	G C T h m s	Remarks
July 3	e	20-03.5 ca	Minute marks not recorded, and time is only approximate.
6	0 iP iPR <sub>1</sub> iS <sub>1</sub>	22-48-40 22-55-40 53-58 23-01-18	$\Delta(S-P): 35.5^{\circ}; 3950 \text{ km.}$ USCGS gives 0: 22-48-51
10	eS eL	1-11.3 ca 14.8 ca	USCGS gives location at 19°N, 80°W.
From July 17, 21h-50m to September 23, 17h-20m the instruments were not in operation.			
Sept. 23 to Sept. 30: no tremors recorded.			

L. C. Conant, Observer

ITHACA



Seismograph Station - Department of Geology  
Cornell University, Ithaca, N. Y.

Instruments: 2 Bosch-Omori 25 kg. pendulums, N-S, and E-W.  
T<sub>0</sub>: 30 secs.; Air damping;  $\epsilon$  5:1; smoked paper; V:12.

Time: Checked daily by radio time signals. Accuracy probably  $\pm 2$  seconds.

October 1 to December 31, 1934.

Date 1934	Phase	G C T h m s	Remarks
October 10	e eS? eE e	16-03 08.2 13.4 16.4	USCGS gives 23°N. 176°W.
29	eN eN	2-51 53	Early phases masked by strong microseisms.
November 5	H eP? eS?	23- 2.7 23-12.8 21.2	$\Delta$ (S-P): 6750km. USCGS gives H: 23h-2.4m. 52°N. 176°W.
Nov. 14, 19 h. 24m. to Nov. 18, 0h. 0m. instruments out of operation for alterations.			
18	e	15-21	Micros. mask early portion.
30	iP iPR <sub>1</sub> eS eSR <sub>2</sub>	2-11.5 ca 12.5 ca 16.6 <sup>±</sup> .2 18.7	No minute marks for several hours; time only approximate; and apparently one minute slow. $\Delta$ (S-P): 30° $\Delta$ (Meas): 34° USCGS gives H: 2h.05m.20s. 20°N., 104.5°W.
December 3	ePN ePR <sub>1</sub> N eSE <sub>1</sub>	2-44.6 45.3 49.4	USCGS gives H: 2h.38.6m. 15°N., 89°W.
3	eN eL?	20-43.7 52.7	Distinct seismic activity 20h. 52.7 to 20h. 59m., but micros. abundant.
14	H ePN iS ePS?E	17-24.8 34.8 43.1 43.6	$\Delta$ (S-P): 60°; 6665 km. USCGS gives H: 17h.24.8m. and approximately 19°S., 70°W.
15	Weak seismic activity from about 2h.26m. to 4h., but phases lost in microseisms.		

## ITHACA (continued)

1934	Phase	G C T	Remarks
December 22	Seismic activity from about 14h.37m. to 15h.20., but phases lost in microseisms.		
23	iE iE iE	10-11.3 12.2 13.5	
Instruments out of operation Dec. 27, 22h.56m. to Dec. 30, 2h. 45m.			
30	eSN eSR <sub>1</sub> ?E F	14-04.0 6.6 15.	USCGS gives H:13h.51.9m. 31°N., 116°W.
31	H ePE iS F	18-46.6 52.7 57.6 20-10 ca.	N-S needle thrown from drum by surface (Love?) wave. Strong micros. $\Delta$ (S-P):28.8°; 3200 km. USCGS gives H:18h.45m.30s. 30°N., 116°W.

L. C. Conant, Observer

March, 1935.