The Pennsylvania State College

Mineral Industries Experiment Station

SEISMOGRAPHIC REPORT VI

1940

School of Mineral Industries

State College, Pa.

We thankfully acknowledge the receipt of the following publications and reports during January-June, 1940.

Apia	Oct.-Dec. 1939; Jan.-Mar. 1940
Bur. Centr. France	Feb., Mar. 1940
Bur. Centr. U.G.G.I.	Feb., Mar. 1940
Florissant	June-Oct. 1939
Fordham	Oct.-Dec. 1939; Jan.-Mar. 1940
Fort de France	July-Dec. 1939
Georgetown	Seism. Desp. Jan.-Mar. 1940
Hamburg	July-Dec. 1939
Harvard	1937, 1938, 1939
Helgoland	July-Sept. 1939
Helwan	Aug.-Dec. 1939
Jesuit Seismol. Assoc.	Prel. Bulls. 29, 37-49, 51/1939 1, 4, 5, 8, 10/1940
Kjobenhavn	#37-39, Jan.-Sept. 1936
Ksara	1937; Oct.-Dec. 1939; Jan.-Mar.1940
La Plata	July-Dec. 1939
Little Rock	Jan.-May 1939
Malaga	July-Dec. 1936
Manila	Oct.-Dec. '39; Jan.-Apr. 1940
Melbourne	July-Oct. 1939; Jan.-Mar. 1940
Ottawa and aux.	Nov., Dec. 1939; Jan.-Apr. 1940
Paris	Feb., Mar. 1940
Pasadena	Oct.-Dec. 1938; Prel. #14-16
Perth	Jan.-April 1940
Pittsburgh	Jan.-April 1940
Reykjavik	1939
Riverview	Oct.-Dec. 1939; Jan., Feb. 1940
St. Louis	May-Sept. 1939
Scoresby Sund	#14, Jan.-June 1936
Strasbourg (Clermont-Ferrand)	Feb., Mar. 1940
Switzerland	1938; Dec. 1939; Jan.-May 1940
Tananarive	1938; Jan.-May 1939
Uccle	Mar. 23, 1939 - Dec. 31, 1939
Upsala	July 1938 - June 1939
U.S.C.G.S.	Aug.-Dec. 1937; Jan.-May 1938
Wellington and aux.	P 93-98; S56
Williamstown	Apr.-Dec. 1938; Jan.-Dec. 1939; Jan.-Mar. 1940

Geophysical Laboratory

State College, Pennsylvania

State College, Pennsylvania. N-45-E Component, T_o = 6 secs.

Date 1940	Phase	G. h.	C. m.	T. s.	T	Remarks
I/6	e	14	24	45		
	e		32	21		
	e(L)	15	01.7			
	M		10		18	
I/17	e	01	38.9			
	eL	02	03			
I/24		05	01.0-07.5			Strange disturbance standing out from heavy microseisms.
I/28	e ?	08	47	01		
	e		48	56		
	e		50	19	2	
	M			35	2	
	F		55			
II/7	e	17	27	25		
	i		36	02	5	
	M		52			
II/8	M	08	26.5			
II/20	i	03	04	23		
	M		28.0			
II/29	e	16	19	37		
	i			53		
III/6	e	00	18	28		
	i		19	05		
III/6	e	06	15	48		
III/9	e	05	29			
III/21	e	14	12	37		
	i			47		
III/14	e	18	42	25		
	i			39		
III/14	i	20	05	13		
	i			43		
III/27	e	12	42	16		
	e		50	50		
	e		53	47		
	e		58	39		
	i	13	00	23		
	e		02	21		
	e		03	27		
	eL		07.5			
	M		13.5		15	
III/28	e	16	07	26		
III/28	e	17	55.6			
III/28	e	17	03	17		
IV/16	eP	06	18	46		
	i			52		
	i		19	20		
	i		20	03		
	iS		27	45		
	i		28	44		
	e	06	35.7			
	eL		39.4			
	M		44.9		20	
	C					Merging with the following.

State College, Pennsylvania N-45-E Component, T_o = 6 sec.

Date	Phase	G. h.	C. m.	T. s.	T	Remarks
1940						
IV/16	iP	06	54	08		
	eS	07	00	11		
	eL		15.4			Merging with the following.
IV/16	iP	07	59	58		
	i	08	03	02		
	F		15			
IV/23	i	21	27	55		Disturbance ?
V/3	i	21	46	25		Blast ?
V/4	e	07	35	11		
	i			37		
	e		37	59		
	i		44	12		
	eL		58.5			
	M					Not pronounced.
V/5	e	02	12	21		
	e			40		
	e		14	20		
V/11	e	14	14	45		
V/17	i	02	06	24		
	e		08	17		
	eL		19.7		18	
V/19	e	04	43	12		Destructive in Imperial Valley, California.
	e		44	06		
	e		45	13		
	e		46	15		
	e	04	47	12		
	e		48	15		
	e		49	22		
	e		50	29		
	e		51.7			
	i		52	54		Remainder lost because recording mirror is moved off to one side.
V/19	e	15	29	08		
	e		35	34		
	i		38	33		
V/24	iP	16	42	59		
	i		43	05		
	i			26		Mirror off.
V/28	e?	10	01	12		
	eL		39			
V/29	eP	02	05	38		
	e?		06	34		
	e		10	34		
	i		11	29		
	i(!)			48		
	e		13	22		
	e		14	32		
	i		15	36		
	M		19.5			

State College, Pennsylvania N-45-E Component, T_o = 6 sec.

Date	Phase	G. h.	C. m.	T. s.	T	Remarks
1940						
VI/3	eP	18	11	35		
	e		12	29		
	e		15	19		
	i	18	15	32		
	e		16	40		
	e		18.3			
	i		21	21		
	eL		22	02		
	F		57			
VI/7	i	23	21	50		Blast.
VI/10	i	14	00	05		Disturbance ?
	i		01	07		
VI/17	i	10	37	40		
	i			53		
	i		38	26		
	i		39	55		
	e		41	09		
	e		46	21		
	e		47	45		
	e(L)		58	41		
	M	11	01.4		10	
	C				8	
	F	12				
VI/18	eP(?)	18	50	00		Disturbed by microseisms.
	i			34		
	i		53	02		
	i		59	05		
	eL	19	13.4			
	M					Not pronounced.
VI/23	e	21	55	30		Preliminaries very weak, beginning uncertain.
	i	21	57	31		
	i			58		
	i		58	23		
	i	22	00	23		
	M		02.5		8	

Macroseismic Report: On May 28, 1940, several inhabitants of Harrisburg, Pa., reported having felt a slight earthquake around 20 o'clock G.M.T. The records of our seismograph, as well as those of the Franklin Institute, Philadelphia, Pa., according to a notification from the U. S. Coast and Geodetic Survey, failed to disclose any disturbance.

H. Landsberg

The Earthquake Station
of
The Pennsylvania State College

Locality: The Station is located in a vault under the central wing of the School of Mineral Industries Building. The instrument is mounted on a concrete pillar separated from the foundations and anchored to bedrock (Dolomite). The geographic coordinates are:

$\Phi = 40°48'N.$ $\Lambda = 77°52'W.$ $H = 390\ m$

Geocentric coordinates (according to Gutenberg and Richter):

$A = 40°36'N.$ $\Lambda = 77°52'W.$ $H = +3\ km.$

Instrumental Equipment: The Station has one horizontal seismograph of the Bosch-Omori type with 5 kg mass which was designed and constructed at the School. The pendulum is orientated N45E and records photographically, the distance from mirror to recording drum being 1 m and the recording speed 1.5cm/min. The instrument constants are:

$T_0 = 6\ sec.$ $E : 1 = 4 : 1$ $V = 120$

Time Service: The time is controlled by a Spindler and Hoyer clock, which is compared twice daily with the NAA-Time signals from the U. S. Naval Observatory, Arlington. The clock movement is satisfactory enough to warrant an accuracy of time within one second.

Communications: Please address all communications to the

Geophysical Laboratory
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