January 1944

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

SYMBOLS AND STATION CONSTANTS

CG—CAPE GIRARDEAU (in cooperation with Southeast Missouri State Teachers College, Cape Girardeau, Mo., U. S. A.) — (inaugurated, 1938)
Latitude: geographical, 37°19′N; geocentric, 37°08′N.
Longitude: 89°32′W. Altitude: h = 134m, H+h = 4km.
Lithologic foundation: limestone.
Seismographs: Wood-Anderson short period EN.
Director of the Station: Professor John Harty.

FL—FLORISSANT (in cooperation with Saint Stanislaus Seminary, Florissant, Missouri, U. S. A.)—(inaugurated, 1928)
Latitude: geographical, 38°48′06″N; geocentric, 38°37′N.
Longitude: 90°22′12″W. Altitude: h = 160m, H+h = 4km.
Lithologic foundation: Pennsylvanian shale.
Seismographs: Galitzin-Wilip ENZ, Wood-Anderson short period EN.
Clock: Shortt synchronome.
Director of the Station: Reverend James B. Macelwane, S. J.

LR—LITTLE ROCK (in cooperation with Saint John's Seminary, Pulaski Heights, Little Rock, Arkansas, U. S. A.)—(inaugurated, 1930).
Latitude: geographical, 34° 47′N; geocentric, 34°36′N.
Longitude: 92°21′W. Altitude: h = 135m, H+h = 5 km.
Lithologic foundation: sandstone.
Seismographs: Wood-Anderson short period EN.
Clock: Howard-Gaertner.
Director of the Station: Monsignor Joseph A. Murray.

SL—SAINT LOUIS I, Administration Building of Saint Louis University, 221 North Grand Boulevard — (inaugurated, January 1, 1910).
Latitude: geographical, 38°38′11″N; geocentric, 38°27′N.
Longitude: 90°14′00″W. Altitude: h = 160m, H+h = 4 km.
Lithologic foundation: clay.
Seismograph: Wiechert (80 kg) EN.
Clock: Wiechert.

II, University Gymnasium, 3672 West Pine Boulevard — (inaugurated, 1927).
Latitude: geographical, 38°38′10″N; geocentric, 38°27′N.
Longitude: 90°14′10″W. Altitude: h = 161m, H+h = 4 km.
Lithologic foundation: Mississippian limestone.
Seismographs: Wood-Anderson short period EN.
Macelwane-Sprengnether Z; Sprengnether NE.
Clock:Wiechert.
Director: Reverend James B. Macelwane, S.J.

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 Olive Street, Saint Louis 8, Mo., U.S.A.

SEISMOLOGICAL BULLETIN

PREFACE

Commencing with the year 1944, the station bulletins of the Saint Louis University group will be issued jointly as one seismological bulletin of the Institute of Geophysical Technology. As this first issue of the new bulletin is released the previous individual station bulletins of Saint Louis and Florissant have been completed. Previous years for Cape Girardeau and Little Rock have not been completed. The Cape Girardeau station bulletin for July-December 1942 and January-December 1943 will be issued as an individual station bulletin when completed. Likewise an individual station bulletin will be prepared for Little Rock for the years 1940, 1941, 1942, and 1943.

August, 1948

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of January, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
1	Jan. 1	S.L.	(e)N	S.	16 30 29	
2	Jan. 3	S.L.	eLE	S.	10 34 23	
3	Jan. 4	S.L.	ePZ	M.S.	01 04 11	$\Delta_{P-H} = 30°6$
			eZ	M.S.	01 04 23	$\Delta_{meas} = 30°8$
			eSE	S.	01 09 21	$H = 00^h57^m53^s$
			e(SR_1)E	S.	01 10 21	Epicentral Region:
			eLN	S.	01 13 03	12°8 N., 71.4 W.
			F	S.	01 39.5	
4	Jan. 5	S.L.	(e)Z	M.S.	04 17 58	
5	Jan. 5	S.L.	iZ	M.S.	07 56 45.5	
6	Jan. 5	S.L.	iPZ	M.S.	11 05 28.5	$\Delta_{P-H} = 30°2$
			iZ	M.S.	11 05 33.5	$\Delta_{meas} = 30°9$
			iSN	S.	11 10 33.5	$H = 10^h59^m14^s$
			eN	S.	11 12 58.5	Epicentral Region:
			eL	S.	11 14.9	12°8 N., 71°4 W.
			F	S.	12 21.5	
	Jan. 5	C.C.	ePN	W.A.	11 05 15	
7	Jan. 5	S.L.	eP'Z	M.S.	21 32 12	$\Delta_{PR_1-H} = 143°2$
			iP'Z	M.S.	21 32 15	$\Delta_{meas} = 143°5$
			iZ	M.S.	21 32 28	$H = 21^h13^m01^s$
			iZ	M.S.	21 32 35	Epicentral Region:
			iPR_1Z	M.S.	21 35 22	3°5 S., 101°7 E.
			i(SKKS)Z	M.S.	21 36 19	
			i(PSKS)N	S.	21 45 56	Depth of Focus:
			eN	S.	21 47 21	125±km.
			i(PPS)N	S.	21 48 19	
			eN	S.	21 49 05	
			i(SR_1)N	S.	21 53 50	
			(sSR_1)N	S.	21 54 54	
			iSR_2N	S.	21 59 29	
			eLN	S.	22 04 --	
			FN	S.	23 48 --	
	Jan. 5	C.G.	eP'N	W.A.	21 32 18	
			eN	W.A.	21 33 20	
8	Jan. 6	S.L.	iPZ	M.S.	16 53 34	$\Delta_{P-H} = 54°8$
			iZ	M.S.	16 53 43	$\Delta_{meas} = 55°3$
			eZ	M.S.	16 57 51	$H = 16^h14^m07^s$
			eSN	S.	17 01 12	Epicenter:
			eLN	S.	17 13 --	15° S., 75°5 W.

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of January, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
9	Jan. 7	S.L.	ePR$_1$Z	M.S.	03 09 25	New Guinea.
			iPR$_1$Z	M.S.	03 09 30	Deep.
			epPR$_1$Z	M.S.	03 09 57	
			eE	S.	03 10 27	
			iSKSE	S.	03 14 51	
			eE	S.	03 15 49	
			eSKKSE	S.	03 16 15	
			eSPE	S.	03 19 20	
			eL	S.	03 20 --	
			F	S.	05 02 --	
	Jan. 7	Fl.				Time Uncertain.
10	Jan. 7	Fl.		W.A.	05 22 --	Time Uncertain.
	Jan. 7	C.G.	iPN	W.A.	05 18 20.8	Local
			iSN	W.A.	05 18 23	
	Jan. 7	S.L.	iE	W.A.	05 18 57	
11	Jan. 8	S.L.	eZ	M.S.	10 16 14	
			eLE	S.	10 29 --	
12	Jan. 8	S.L.	eZ	M.S.	19 36 12.5	
			eL	S.	20 08 --	
	Jan. 8	Fl.				Time Uncertain
13	Jan. 10	S.L.	ePZ	M.S.	04 33 53	
14	Jan. 10	S.L.	iPZ	M.S.	20 15 01	Δ_{P-H} = 23°3
			ipPZ	M.S.	20 15 08	Δ_{meas} = 23°3
			iSN	S.	20 19 13	H = 20h09m56s
			isSN	S.	20 19 27	Epicentral Region:
						17°1 N., 100°3 W.
						Slightly deep.
	Jan. 10	C.G.	iPN	W.A.	20 14 52	Δ_{P-H} = 22°2
			iSN	W.A.	20 19 09	Δ_{meas} = 22°2
	Jan. 10	Fl.	iPZ	G.W.	20 15 03	Δ_{P-H} = 23°2
			iPN	W.A.	20 15 10	Δ_{meas} = 23°4
			iSZ	G.W.	20 19 16	
			isSZ	G.W.	20 19 28	
15	Jan. 10	S.L.	iPZ	M.S.	20 38 32	Aftershock of No. 14?
			ipPZ	M.S.	20 38 40	
			i(S)Z	M.S.	20 42 57	
			i(sS)Z	M.S.	20 43 09	
	Jan. 10	C.G.	iPN	W.A.	20 38 23	
			eSE	W.A.	20 42 46	
	Jan. 10	Fl.	iPN	W.A.	20 38 34	
			iSN	W.A.	20 43 00	

SAINT LOUIS UNIVERSITY
TITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of January, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
16	Jan. 12	S.L.	iPZ	M.S.	15 08 20	Δ_{P-H} = 26°3
			iZ	M.S.	15 08 40	Δ_{meas} = 26°3
			eSN	S.	15 12 53	H = $15^h02^m42^s$
			eN	S.	15 13 30	Epicenter:
			eLN	S.	15 15 33	40° N., 124°2 W.
			F	S.	15 55 --	
	Jan. 12	C.G.	e	W.A.n	15 08 47	
			eL	W.A.n	15 17.5	
	Jan. 12	Fl.	iSN	G.W.	15 12 57	Δ_{S-H} = 26°2
			eLN	G.W.	15 15.5	Δ_{meas} = 26°1
			F	G.W.	15 51 --	
17	Jan. 15	S.L.	eE	W.A.	05 54 09	Δ_{S-H} = 41°3
			eSN	S.	06 00 25	Δ_{meas} = 41°2
			eL	S.	06 03.5	H = $05^h46^m18^s$?
			F	S.	06 33 --	Epicentral Region:
						17°6 N., 49°7 W.
	Jan. 15	Fl.	e(P)Z	G.W.	05 54 01	Δ_{S-H} = 41°3
			eSN	G.W.	06 00 25	Δ_{meas} = 41°4
			eLN	G.W.	06 03 48	
			F	G.W.	06 31 --	
18	Jan. 16	S.L.	iPZN	M.S.	00 00 56	Δ_{P-H} = 72°7
			eNE	W.A.	00 00 57	Δ_{meas} = 72°7
			iPE	S.	00 00 57	H = $23^h49^m33^s$
			ipPZ	M.S.	00 01 05	Epicenter:
			eN	S.	00 01 42	31° S., 68°2 W.
			i(S)N	S.	00 10 11	About 40 km deep.
			iE	S.	00 10 15	
			iSN	S.	00 10 17	
			eSE	W.A.	00 10 17	
			eSN	W.A.	00 10 18	
			isSE	S.	00 10 34	
	Records of January 15, 1944 are at La Plata, Argentina.					
19	Jan. 16	S.L.	eE	S.	14 37 50	
			(M)	S.	14 38.5	
			(L)	S.	14 40 --	
	Jan. 16	Fl.	(e)	G.W.n	14 38 38	
			(I)	G.W.n	14 42 --	
20	Jan. 20	S.L.	ePZ	M.S.	03 12 28	Δ_{S-H} = 95°1
			iPZ	M.S.	03 12 29.5	Δ_{meas} = 95°1
			epPZ	M.S.	03 12 52	H = $02^h59^m17^s$
			iZ	M.S.	03 12 59	Epicentral Region:
			eSKSE	S.	03 22 56	15°5 S., 174°5 W.
			eSE	S.	03 23 38	
			e(SP)E	S.	03 24 59	About 100 km deep.
			eL	S.	03 29 --	
			F	S.	04 17 --	

No.	Date	Sta	Phase	Inst	h m s	Remarks
20 (Con't.)	Jan. 20	Fl.	ePZ	W.A.	03 12 31	$\Delta_{S-H} = 95°3$
			iSKSE	G.W.	03 22 59	$\Delta_{meas} = 95°$
			eSE	G.W.	03 23 40	
21	Jan. 20	S.L.	iPZ	M.S.	12 49 03	
			iZ	M.S.	12 49 15	
			iZ	M.S.	12 49 24	
			iZ	M.S.	12 49 56	
22	Jan. 22	S.L.	ePZ	M.S.	19 59 31	
	Jan. 22	Fl.	eN	W.A.	19 59 45	
23	Jan. 22	S.L.	ePE	W.A.	22 01 27	
	Jan. 22	Fl.	ePN	W.A.	22 01 24	
24	Jan. 23	S.L.	iPZ	M.S.	07 27 10	South of Alaska.
			iZ	M.S.	07 27 14	May be deep.
			iZ	M.S.	07 27 23	
			e(S)E	S.	07 34 16	
	Jan. 23	Fl.	ePN	W.A.	07 27 09	
			eN	W.A.	07 27 13	
			eN	W.A.	07 27 27	
			eN	G.W.	07 34 13	
			eLN	G.W.	07 46 --	
			F	G.W.	08 10 --	
	Jan. 23	C.G.	eN	W.A.	07 27 20	
25	Jan. 24	S.L.	ePZ	M.S.	00 15 57	
			eZ	M.S.	00 16 07	
			eZ	M.S.	00 16 15	
	Jan. 24	Fl.	ePN	W.A.	00 15 58	
	Jan. 24	C.G.	ePN	W.A.	00 15 49	
26	Jan. 24	S.L.	eE	S.	06 17 28	
	Jan. 24	Fl.	eE	G.W.	06 17 07	
			F	G.W.	06 25 --	
27	Jan. 25	S.L.	ePˈZ	M.S.	07 52 31	Region about
			epPˈZ	M.S.	07 53 07	8° S., 121° E.
			i(SKP)Z	M.S.	07 56 05	
			iZ	M.S.	07 56 57	
	Jan. 25	Fl.	epPˈZ	G.W.	07 53 06	
			e(SKP)Z	G.W.	07 56 04	
28	Jan. 25	S.L.	iPZ	M.S.	12 48 17	
			iZ	M.S.	12 48 22	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of January, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
29	Jan. 27	S.L.	eZ	M.S.	04 59 51	
			eZ	M.S.	04 59 56	
			eZ	M.S.	05 00 21	
	Jan. 27	Fl.	eE	W.A.	04 59 35	
			eE	W.A.	04 59 41	
			eN	W.A.	04 59 59	
			eE	W.A.	05 00 14	
			eE	W.A.	05 00 25	
	Jan. 27	C.G.	eN	W.A.	05 00 40	
30	Jan. 28	S.L.	eLN	S.	11 51.5	
			F	M.S.	12 38.5	
	Jan. 28	Fl.	e(L)E	G.W.	11 55 --	
			F	G.W.	12 21 --	
31	Jan. 29	S.L.	iPZ	M.S.	02 33 26	H = $02^h25^m13^s$.
			iPZ	M.S.	02 33 31	Epicentral Region:
			i(pP)Z	M.S.	02 33 36	
			eZ	M.S.	02 35 19	63° N., 153°8 W.
			eSE	S.	02 40 05	Slightly deep.
			eLE	S.	02 46 47	
			F	S.	03 53.5	
	Jan. 29	Fl.	iPZ	G.W.	02 33 30	
			e(S)E	G.W.	02 40 03	
			F		03 43 --	
	Jan. 29	C.G.	ePN	W.A.	02 33 36	
			e(pP)N	W.A.	02 33 41	
32	Jan. 31	S.L.	(e)Z	M.S.	00 05 39	
			eLN	S.	00 29 53	
33	Jan. 31	S.L.	e(P)Z	M.S.	02 59 25	
			$e(PR_1)Z$	M.S.	02 59 38	
			eLN	S.	03 05 54	
	Jan. 31	Fl.	eN	G.W.	03 06 03	
	Jan. 31	C.G.	eLN	W.A.	03 05 54	
34	Jan. 31	S.L.	ePZ	M.S.	09 40 41	
			eZ	M.S.	09 40 57	
	Jan. 31	Fl.	eN	G.W.	10 02 51	
35	Jan. 31	S.L.	eZ	M.S.	21 32 36	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of January, 1944.

Minor Seismic Activity

Station	From h m	To h m	Date
S.L.	00 40	05 00	Jan. 3
S.L.	23 06	23 07	4
S.L.	08 25.5	08 40	5
S.L.	11 46.5	11 58	6
S.L.	03 22.5	03 31	8
S.L.	11 25	11 26	8
S.L.	05 35	05 40	14
S.L.	03 29.5	03 56.5	15
S.L.	02 05.5	02 08.5	15
Fl.	21 22	21 30	14
S.L.	14 17.5	14 29.5	17
S.L.	16 40	16 43	17
S.L.	06 18.5	06 22.5	18
S.L.	21 19	22 30	20
S.L.	03 22	03 30	22
S.L.	14 --	20 --	21
Fl.	04 36	04 39	24
S.L.	07 04	08 39	31

James B. Macelwane, S. J.
Director

Paul E. Howe
Student Assistant

February, 1944
March, "
April, "

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

SYMBOLS AND STATION CONSTANTS

CG—CAPE GIRARDEAU (in cooperation with Southeast Missouri State Teachers College, Cape Girardeau, Mo., U. S. A.) — (inaugurated, 1938)
Latitude: geographical, 37°19′N; geocentric, 37°08′N.
Longitude: 89°32′W. Altitude: h = 134m, H+h = 4km.
Lithologic foundation: limestone.
Seismographs: Wood-Anderson short period EN.
Director of the Station: Professor John Harty.

FL—FLORISSANT (in cooperation with Saint Stanislaus Seminary, Florissant, Missouri, U. S. A.)—(inaugurated, 1928)
Latitude: geographical, 38°48′06″N; geocentric, 38°37′N.
Longitude: 90°22′12″W. Altitude: h = 160m, H+h = 4km.
Lithologic foundation: Pennsylvanian shale.
Seismographs: Galitzin-Wilip ENZ, Wood-Anderson short period EN.
Clock: Shortt synchronome.
Director of the Station: Reverend James B. Macelwane, S. J.

LR—LITTLE ROCK (in cooperation with Saint John's Seminary, Pulaski Heights, Little Rock, Arkansas, U. S. A.)—(inaugurated, 1930).
Latitude: geographical, 34° 47′N; geocentric, 34°36′N.
Longitude: 92°21′W. Altitude: h = 135m, H+h = 5 km.
Lithologic foundation: sandstone.
Seismographs: Wood-Anderson short period EN.
Clock: Howard-Gaertner.
Director of the Station: Monsignor Joseph A. Murray.

SL—SAINT LOUIS I, Administration Building of Saint Louis University, 221 North Grand Boulevard — (inaugurated, January 1, 1910).
Latitude: geographical, 38°38′11″N; geocentric, 38°27′N.
Longitude: 90°14′00″W. Altitude: h = 160m, H+h = 4 km.
Lithologic foundation: clay.
Seismograph: Wiechert (80 kg) EN.
Clock: Wiechert.

II, University Gymnasium, 3672 West Pine Boulevard — (inaugurated, 1927).
Latitude: geographical, 38°38′10″N; geocentric, 38°27′N.
Longitude: 90°14′10″W. Altitude: h = 161m, H+h = 4 km.
Lithologic foundation: Mississippian limestone.
Seismographs: Wood-Anderson short period EN.
Macelwane-Sprengnether Z; Sprengnether NE.
Clock:Wiechert.
Director: Reverend James B. Macelwane, S.J.

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of February, 1944

No.	Date	Sta	Phase	Inst	h m s	Remarks
36	Feb. 1	S.L.	ePZ	M.S.	03 35 09	Δ_{P-H} = 84°4
			iPZ	M.S.	03 35 13	Δ_{meas} = 84°4
			iPZ	M.S.	03 35 16	H = $03^h22^m43^s$
			iZ	M.S.	03 35 31	Epicentral Region:
			iZ	M.S.	03 36 01	41°5 N., 32°3 E.
			iZ	M.S.	03 36 55	
			iZ	M.S.	03 37 57	
			iZ	M.S.	03 38 08	
			iPR_1Z	M.S.	03 38 31	
			iPR_2Z	M.S.	03 40 28	
			$e(PR_3)Z$	M.S.	03 42 04	
			iE	S.	03 45 52	
			iE	S.	03 48 33	
			eSR_1E	S.	03 51 25	
			eSR_1N	S.	03 51 35	
			F	M.S.	08.2	
		Fl.	iPZ	G.W.	03 35 16	
			iZ	G.W.	03 35 31	
			iZ	G.W.	03 35 49	
			iPR_1Z	G.W.	03 38 35	
			iZ	G.W.	03 38 58	
			iPR_2Z	G.W.	03 40 24	
			e(S)E	G.W.	03 45 41	
		C.G.	ePN	W.A.	03 35 19	Δ_{P-H}= 85°6
			eN	W.A.	03 35 34	Δ_{meas} = 85°4
			eN	W.A.	03 38 14	
			eN	W.A.	03 38 19	
			ePR_1N	W.A.	03 38 30	
			eN	W.A.	03 41 12	
			e(S)N	W.A.	03 45 54	
			F		05 18 --	
37	Feb. 1	S.L.	iPZ	M.S.	05 28 54	Δ_{P-H} = 87°8
			ipPZ	M.S.	05 29 07	Δ_{meas} = 87°8
			iZ	M.S.	05 29 25	H = $05^h16.2^m$
			iZ	M.S.	05 30 03	Epicentral Region:
			eZ	M.S.	05 30 21	40°5 N., 141°3 E.
			e(SKS)Z	M.S.	05 39 14	About 70 km. deep.
		Fl.	iPZ	G.W.	05 28 53	Δ_{P-H} = 87°5
			iZ	G.W.	05 29 10	Δ_{meas} = 87°6
			eSKSE	W.A.	05 39 11	
			eSE	G.W.	05 39 20	
			iSE	G.W.	05 39 23	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of February, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
37 (Con't.)	Feb. 1	C.G.	ePN	W.A.	05 29 01	Δ_{P-H} = 89°1
			eN	W.A.	05 29 05	Δ_{meas} = 89°2
			epPN	W.A.	05 29 13	
			eN	W.A.	05 29 24	
			e(SKS)N	W.A.	05 39 22	
38	Feb. 1	S.L.	iPZ	M.S.	06 21 24	Aftershock of No. 36
39	Feb. 1	S.L.	ePZ	M.S.	17 42 12	Blast ?
40	Feb. 1	S.L.	eZ	M.S.	21 37 18	
			eLE	S.	22 09 41	
		Fl.	eE	G.W.	22 13.1	Surface Waves.
41	Feb. 2	S.L.	ePZ	M.S.	03 45 47	Aftershock of No. 36
			iPZ	M.S.	03 45 50	
			iZ	M.S.	03 46 02	
42	Feb. 2	S.L.	ePZ	M.S.	22 55 01	
			eZ	M.S.	22 55 23	
43	Feb. 2	S.L.	ePZ	M.S.	19 42 09	
44	Feb. 3	S.L.	ePZ	M.S.	11 32 33	Region of 5°6 N., 71°6 W. H = $11^h25.4^m$ Δ_{P-H} = 36°6 Δ_{meas} = 37°
45	Feb. 3	S.L.	iPZ	M.S.	12 22 06	Δ_{P-H} = 35°3
			iZ	M.S.	12 22 13	Δ_{meas} = 35°4
			iPR_1Z	M.S.	12 23 20	H = $12^h15^m08^s$
			iPR_2Z	M.S.	12 23 44	Epicenter:
			i(PcP)Z	M.S.	12 24 29	59°5 N., 135°6 W.
			eSE	S.	12 27 47	
			eSR_1E	S.	12 29 43	
			$e(SR_2)E$	S.	12 30 26	
			eN	S.	12 33 04	
			iN	S.	12 33 44	
		C.G.	ePN	W.A.	12 22 17	
			eN	W.A.	12 23 20	
			ePR_1N	W.A.	12 23 40	
			ePR_2N	W.A.	12 24 04	
			ePR_3N	W.A.	12 24 19	
			eN	W.A.	12 24 54	
			eSR_1N	W.A.	12 30 23	
			F	W.A.	12 59 --	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of February, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
45 (Con't.)	Feb. 3	Fl.	iPZ	G.W.	12 22 05	Δ_{P-H} = 35°2
			eZ	G.W.	12 23 14	Δ_{meas} = 35°3
			ePR_1Z	G.W.	12 23 21	
			iPR_2Z	G.W.	12 23 44	
			e(PcP)Z	G.W.	12 24 30	
			eSE	G.W.	12 27 44	
			eSR_1E	G.W.	12 29 46	
			e(L)E	G.W.	12 32 43	
			iE	G.W.	12 34 03	
			F	G.W.	14 09 --	
46	Feb. 3	S.L.	ePZ	M.S.	14 17 22	Region of No. 44.
47	Feb. 4	S.L.	iPZ	M.S.	21 18 06	Region of:
			ipPZ	M.S.	21 18 40	39°2 N., 143°5 E.
			eSKSE	S.	21 27 36	$H = 21^h05.5^m$
			eSE	S.	21 28 06	About 150 km. deep.
			esSKSE	S.	21 28 39	
			esSE	S.	21 29 10	
		Fl.	eSKSE	G.W.	21 27 34	
			ePN	W.A.	21 18 05	
			epPN	W.A.	21 18 40	
48	Feb. 4	S.L.	ePZ	M.S.	23 54 37	Eastern Greenland.
			eSE	S.	24 02 02	$H = 23^h 46.1^m$
			eN	S.	24 04 24	
			eN	S.	24 05 45	
			eL	S.	24 10 --	
			F	S.	24 49 --	
		Fl.	eSE	G.W.	24 02 01	
			eLE	G.W.	24 09.5	
			F	G.W.	24 30 --	
49	Feb. 5	S.L.	eZ	M.S.	17 39 10	Epicentral Region:
			ePR_1Z	M.S.	17 39 20	23°6 N., 121°2 E.
			eZ	M.S.	17 39 36	$H = 17^h20.1^m$
			eSKSN	S.	17 45 10	Δ_{PR_1-H} = 111°6
			eSPN	S.	17 48 54	Δ_{meas} = 111°2
			ePPPSN	S.	17 50 40	
			F	S.	19 47 --	
		Fl.	iPR_1Z	G.W.	17 39 17	Δ_{PR_1-H} = 111°2
			eZ	G.W.	17 42 18	Δ_{meas} = 111°0
			eZ	G.W.	17 44 57	
			eSKSE	G.W.	17 45 21	
			eSPE	G.W.	17 48 45	
			eE	G.W.	17 49 25	
			F	G.W.	19 32 --	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of February, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
50	Feb. 5	S.L.	eN	W.A.	20 45 40	
			eN	W.A.	20 45 42	
			eLE	S.	21 00.5	
		Fl.	eN	W.A.	20 45 46	
			eLE	G.W.	21 00.1	
51	Feb. 5	C.G.	ePN	W.A.	22 10 44	
			eN	W.A.	22 10 52	
52	Feb. 6	S.L.	ePZ	M.S.	18 47 45	$\Delta_{meas} = 36°.8$
			eZ	M.S.	18 48 02	$\Delta_{P-H} = 36°.7$
			eLN	S.	18 57 31	$H = 18^h40.6^m$
						Epicentral Region: 10°.3 N., 64° W.
		Fl.	ePN	W.A.	18 47 45	$\Delta_{P-H} = 36°.7$
			eE	W.A.	18 48 30	$\Delta_{meas} = 36°.9$
		C.G.	ePN	W.A.	18 47 29	
			eN	W.A.	18 47 47	
53	Feb. 7	S.L.	e(L)E	S.	17 58 57	South Alaska.
		Fl.	e(L)E	G.W.	17 59 12	
54	Feb. 10	S.L.	ePZ	M.S.	12 18 02	
55	Feb. 11	S.L.	eE	S.	19 24 58	
56	Feb. 14	S.L.	iPZ	M.S.	03 05 07	Roughly 39°N., 143°E.
			eZ	M.S.	03 05 15	
57	Feb. 14	S.L.	eZ	M.S.	09 42 13	
58	Feb. 15	S.L.	iPZ	M.S.	05 47 23	$H = 05^h39.5^m$
			iZ	M.S.	05 47 29	Region of 49°N., 32°W.
			eSN	S.	05 53 45	$\Delta_{P-H} = 42°.2$
		Fl.				Time correction uncertain.
59	Feb. 15	S.L.	ePR_1Z	M.S.	16 02 55	$H = 15^h56.0^m$ Region of 17°N., 66°W. $\Delta_{PR_1-H} = 29°.6$
60	Feb. 16	S.L.	iPZ	M.S.	11 20 15	Alaska?
			eZ	M.S.	11 20 34	
			eSE	S.	11 27 27	
			eLN	S.	11 32 13	
			F	S.	12 07.5	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of February, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
61	Feb. 18	S.L.	iPZ eZ	M.S. M.S.	19 30 41 19 30 48	Southwestern Canada?
62	Feb. 19	S.L.	ePZ eSN eN F	M.S. S. S. S.	11 44 15 11 51 04 11 56 18 12 20.5	H = $11^h35.9^m$ ΔP-H = 45°7 Region of 59°N., 24°W.
63	Feb. 19	S.L.	e(P)Z	M.S.	16 03 03	Northern Pacific. South of Aleutians.
64	Feb. 19	S.L.	e(L)Z	M.S.	20 21.6	
65	Feb. 20	S.L.	eZ eE	M.S. S.	19 40 26 19 55 59	
66	Feb. 21	S.L.	ePZ e(L)E	M.S. S.	00 36 26 00 50.6	
67	Feb. 21	S.L.	iPZ iZ iPR$_1$Z iZ eSE L eE eScPE F	M.S. M.S. M.S. M.S. S. S. S. S. S.	11 33 57 11 34 02 11 34 22 11 34 32 11 38 19 11 39 -- 11 40 58 11 41 47 12 42 --	H = $11^h28.9^m$ Region of : 104°6 W., 19°0 N. ΔP-H = 23°
		C.G.	eN eN	W.A. W.A.	11 33 59 11 37 04	
68	Feb. 21	S.L.	eE eLE	S. S.	15 41 35 15 50 13	
69	Feb. 21	S.L.	(e)Z e(L)E	M.S. S.	17 42 05 17 57 40	
70	Feb. 21	S.L.	eLE	S.	20 54.3	
71	Feb. 23	S.L.	eN eLE M	S. S. S.	01 44 28 01 53 -- 01 56.2	
72	Feb. 23	S.L.	eZ eN F	M.S. S. S.	05 57 10 06 07 03 06 29.5	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of February, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
73	Feb. 23	S.L.	iPZ	M.S.	12 35 15	H = $12^h25.5^m$
			iZ	M.S.	12 35 23	Δ_{P-H} = 59.1
			iZ	M.S.	12 35 31	Region of 51°N., 176°W.
			ipPZ	M.S.	12 35 40	
			eSE	S.	12 43 20	About 100 km. deep.
			eE	S.	12 43 39	
			esSE	S.	12 44 00	
			eN	S.	12 44 47	
			eE	W.A.	12 45 00	
			eLE	S.	12 53 45	
			F	S.	13 33 --	
74	Feb. 25	S.L.	iPZ	M.S.	06 44 01	
75	Feb. 25	S.L.	iPZ	M.S.	07 41 22	H = $07^h32.5^m$
			e(SR_1)N	S.	07 52 29	Δ_{P-H} = 49°5
			eLE	S.	07 56 03	Region: 68°N., 166°W.
			F	S.	08 33 --	
		Fl.	ePE	W.A.	07 41 20	Δ_{P-H} = 49°2
			eSR_1E	G.W.	07 51 48	
			F	G.W.	08 27 --	
76	Feb. 26	S.L.	ePZ	M.S.	22 31 27	Alaska.
			iPZ	M.S.	22 31 29	H = $22^h22.9^m$
			eZ	M.S.	22 32 18	
			eLE	S.	22 45.3	
			F	S.	23 14 --	
		Fl.	ePZ	G.W.	22 31 27	
			eL	G.W.	22 44.9	
77	Feb. 28	S.L.	eE	S.	16 35 33	
78	Feb. 28	S.L.	e(P)Z	M.S.	17 52 01	
			eLE	S.	18 06 27	
		Fl.	eLE	G.W.	18 06 22	
79	Feb. 29	S.L.	iPZ	M.S.	03 51 17	H = $03^h42^m07^s$
			iZ	M.S.	03 51 58	Δ_{P-H} = 56°3
			iPcPZ	M.S.	03 52 02	Δ_{meas} = 56°3
			ipPZ	M.S.	03 52 14	Tentative Epicenter:
			iZ	M.S.	03 52 46	14°2 S., 69°3 W.
			iZ	M.S.	03 53 11	
			iPR_1Z	M.S.	03 53 25	About 275 km. deep.
			iZ	M.S.	03 54 07	
			ipPR_1Z	M.S.	03 54 27	
			ipPR_3Z	M.S.	03 55 57	
			iSE	S.	03 58 40	
			iSE	S.	03 58 47	
			iE	S.	03 59 13	
			iSPE	S.	03 59 58	

(Con't. on next page)

No.	Date	Sta	Phase	Inst	h m s	Remarks
79 (Con't.)	Feb. 29	S.L.	iE	S.	04 00 18	
			isSE	S.	04 00 47	
			iScSE	S.	04 01 32	
			iSR_1E	S.	04 02 43	
			$e(sSR_1)E$	S.	04 04 43	
			eLE	S.	04 08 38	
			F	S.	06 06 --	
		Fl.	iPZ	G.W.	03 51 19	Δ_{meas} = 56°4
			iZ	G.W.	03 52 02	
			iPcP	G.W.	03 52 09	
			ipPZ	G.W.	03 52 16	
			iPR_1Z	G.W.	03 53 30	
			$ipPR_1Z$	G.W.	03 54 23	
			$ipPR_3Z$	G.W.	03 55 58	
			iSE	G.W.	03 58 44	
			iSE	G.W.	03 58 51	
			eSPE	G.W.	03 59 31	
			iE	G.W.	04 00 02	
			isSE	G.W.	04 00 49	
			iScSE	G.W.	04 01 35	
			iE	G.W.	04 02 11	
			iSR_1E	G.W.	04 02 44	
			iSR_1E	G.W.	04 02 53	
			eE	G.W.	04 03 55	
			$esSR_1$	G.W.	04 04 32	
			eE	G.W.	04 06 59	
			e(L)E	G.W.	04 08 06	
			F	G.W.	05 44 --	
		C.G.	iPE	W.A.	03 51 07	Δ_{meas} = 55°
			ePcPE	W.A.	03 51 57	
			eE	W.A.	03 56 09	
			eSE	W.A.	03 58 28	
			eE	W.A.	04 00 33	
80	Feb. 29	S.L.	eP'Z	M.S.	16 47 27	H = $16^h28^m08^s$
			iP'Z	M.S.	16 47 33	Epicenter: 0°0N., 75°0E.
			iZ	M.S.	16 47 42	Δ_{PR_1-H} = 139°2
			iPR_1Z	M.S.	16 50 22	Δ_{meas} = 139°2
			$eSKP_1Z$	M.S.	16 51 06	
			iZ	M.S.	16 51 34	
			iPR_2Z	M.S.	16 53 29	
			eSKSZ	M.S.	16 54 47	
			ePR_3Z	M.S.	16 55 43	
			ePSKSN	S.	17 00 23	
			e(PPS)N	S.	17 02 26	
			eSR_1N	S.	17 08 38	
			ePPSSN	S.	17 09 16	
			eSR_2N	S.	17 13 59	
			F	S.	20.5	
		C.G.	eP'N	W.A.	16 47 45	Δ_{PR_1-H} = 140°3
			ePR_1N	W.A.	16 50 29	Δ_{meas} = 140°4
			$eSKP_1E$	W.A.	16 51 12	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of February, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
80 (Con't.)	Feb. 29	Fl.	ePʹZ	G.W.	16 47 24	
			iZ	G.W.	16 47 44	
			ePR_1Z	G.W.	16 50 22	
			$eSKP_1Z$	G.W.	16 50 52	
			iZ	G.W.	16 51 17	
			ePR_2Z	G.W.	16 53 32	
			e(SKS)Z	G.W.	16 55 12	
			ePR_3Z	G.W.	16 55 51	
			ePSKSE	G.W.	17 00 39	
			ePPPSZ	G.W.	17 04 15	
			eSR_1E	G.W.	17 08 45	
			eSR_2E	G.W.	17 13 45	
			F	G.W.	20.2	
81	Feb. 29	S.L.	ePZ	M.S.	20 44 51	
			eN	S.	20 55 35	

Minor Seismic Activity

Station	From h m s	To h m s	Date
S.L.	04 22 --	04 32 --	Feb. 2
Fl.	04 22 --	04 27.5	2
S.L.	12 58 36		4
S.L.	03 09 --	03 38 --	5
S.L.	16 36.5	16 43 --	5
S.L.	20 17 --	20 43 --	7
Fl.	20 21 --	20 31 --	7
S.L.	17 07.5	17 10 --	15
S.L.	03 15 --	03 20 --	16
S.L.	03 15 --	03 19 --	19
S.L.	00 59 --	01 03 --	22
S.L.	07 37 --	07 52 --	22
S.L.	02 59.5	03 18 --	26
S.L.	02 35 --	03 38 --	27

James B. Macelwane, S. J.,
Director.

Paul E. Howe,
Student Assistant.

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of March, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
82	March 1	S.L.	e(L)N	S.	13 37 40	
83	March 5	S.L.	ePZ	M.S.	17 34 39	Epicentral Region by U.S.C.G.S.: 8° N., 127° E. H = 17h16.1m 200 km. deep. (Approx.)
			iPR1Z	M.S.	17 36 12	
			eSE	S.	17 45 48	
			eSR1E	S.	17 53 00	
			eLE	S.	18 15 14	
			F	S.	19 08 --	
		Fl.	ePR1E	W.A.	17 36 13	
84	March 6	S.L.	ePZ	M.S.	20 15 14	Epicentral Region: 44°2 N., 128°6 W. May be 50 km. deep. ΔP-H = 29°6 H = 20h09m09s
			eSE	S.	20 20 17	
			eE	S.	20 20 24	
			e(sS)E	S.	20 20 37	
			eSR1E	S.	20 21 42	
			eLN	S.	20 23 49	
			eMN	S.	20 26 00	
		Fl.	ePZ	G.W.	20 15 16	
			eSZ	G.W.	20 20 18	
			eE	G.W.	20 20 45	
			e(L)E	G.W.	20 24 07	
85	March 6	S.L.	ePZ	M.S.	21 11 59	Aftershock of No 84.
			ePR1Z	M.S.	21 12 58	
			eSE	S.	21 16 53	Normal.
			eE	S.	21 21 17	
			eME	S.	21 22 13	
		Fl.	ePZ	G.W.	21 11 56	
			eSE	G.W.	21 17 06	
			eME	G.W.	21 22 17	
86	March 6	S.L.	ePZ	M.S.	23 22 37	Aftershock of No. 84. H = 23h16m32s Δmeas = 29°3
			ePR1Z	M.S.	23 23 39	
			eSN	S.	23 27 41	
			eSR1N	S.	23 29 04	
			eLN	S.	23 31 11	
			eMN	S.	23 33 29	
		Fl.	ePR1Z	G.W.	23 23 42	Δmeas = 29°1
			eSE	G.W.	23 27 41	
			eE	G.W.	23 29 45	
			eLE	G.W.	23 31 31	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of March, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
87	March 7	S.L.	ePZ	M.S.	06 15 19	Aftershock of No. 84.
			e(S)E	S.	06 20 42	Δ_{meas} = 29°6
			e(I)E	S.	06 24 38	H = $06^h09^m13^s$
		Fl.	ePZ	G.W.	06 15 19	Δ_{meas} = 29°4
			eSE	G.W.	06 20 20	
88	March 7	S.L.	ePZ	M.S.	06 51 14	H = $06^h44^m56^s$
			eSE	S.	06 56 45	Δ_{meas} = 30°6
			eE	S.	07 00 47	Aftershock of No. 84.
			eE	S.	07 03 41	
89	March 7	S.L.	ePZ	M.S.	08 27 37	Δ_{meas} = 29°7
			eSE	S.	08 32 37	H = $08^h21^m08^s$
			eE	S.	08 36 51	Aftershock of No. 84.
			eE	S.	08 37 49	
		Fl.	ePZ	G.W.	08 27 35	Δ_{meas} = 29°5
			eSE	G.W.	08 32 38	
90	March 9	S.L.	eLE	S.	16 37 54	Aftershock of No. 84 ?
		Fl.	eLE	G.W.	16 38 --	
91	March 9	S.L.	eLE	S.	16 48 16	Aftershock of No. 84 ?
		Fl.	eLE	G.W.	16 48.5	
92	March 9	S.L.	eLE	S.	17 23 47	Aftershock of No. 84 ?
		Fl.	eLE	G.W.	17 24 --	
93	March 9	S.L.	ePZ	M.S.	22 17 18	Foreshock of No. 94.
			eSKSN	S.	22 27 54	
			eSPN	S.	22 29 58	
94	March 9	S.L.	iPZ	M.S.	22 26 32	H = $22^h13^m00^s$
			eZ	M.S.	22 26 57	Δ_{P-H} = 97°0
			ePR_1Z	M.S.	22 30 28	Δ_{meas} = 97°2
			iSKSN	S.	22 37 06	Epicentral Region:
			eSE	W.A.	22 37 58	44°4 N., 85°5 E.
			iSPN	S.	22 39 22	
			e(SR_1)N	S.	22 45 34	
			e(SR_2)N	S.	22 48 26	
			eLN	S.	23 00 19	
		C.G.	eSKSN	W.A.	22 36 13	Δ_{meas} = 97°7
		Fl.	ePZ	G.W.	22 26 32	Δ_{meas} = 97°1
			e(PR_1)Z	G.W.	22 30 37	Δ_{P-H} = 97°0
			iSKSE	G.W.	22 37 05	
			eSPZ	G.W.	22 39 22	
			eSR_2E	G.W.	22 49 06	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of March, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
95	March 10	S.L.	ePZ	M.S.	06 52 42	H = $06^h40^m08^s$
			ipPZ	M.S.	06 52 55	Δ_{P-H} = 85°9
			epPR$_1$Z	M.S.	06 56 21	Δ_{meas} = 86°1
			eSE	S.	07 03 21	Epicentral Region:
			eSR$_1$E	S.	07 09 11	41°4 N., 143°3 E.
			e(SR$_3$)E	S.	07 15 43	Depth: 50 km.
			eLE	S.	07 20 36	
			F	S.	08.5	
		Fl.	ePZ	G.W.	06 52 44	Δ_{meas} = 86°0
			epPR$_1$Z	G.W.	06 56 16	Δ_{P-H} = 86°3
			eSKSE	G.W.	07 03 37	
			eSE	G.W.	07 03 49	
			eSR$_1$E	G.W.	07 09 08	
			e(SR$_3$)E	G.W.	07 15 39	
			eLE	G.W.	07 21 --	
			F	G.W.	08.1	
96	March 12	S.L.	e(P)Z	M.S.	18 22 26	
97	March 14	S.L.	e(P)Z	M.S.	07 32 47	
			eLE	S.	07 52.6	
		Fl.	eLE	G.W.	07 53.5	
98	March 15	S.L.	eIE	S.	05 59 --	
		Fl.	eLE	G.W.	05 59.5	
99	March 15	S.L.	eZ	M.S.	09 15 42	
100	March 21	S.L.	e(P)Z	M.S.	15 28 07	Weak.
			eLN	S.	15 43 --	
101	March 21	S.L.	iPZ	M.S.	22 22 37	Epicentral Region by
			e(pP)Z	M.S.	22 22 52	U.S.C.G.S.:
			eZ	M.S.	22 24 04	42° N., 143° E.
			ePR$_1$Z	M.S.	22 26 18	
			iSE	S.	22 33 15	(May be 50 km. deep.)
			eSR$_1$E	S.	22 38 57	
			eLE	S.	22 50 --	
		Fl.	e(P)Z	G.W.	22 22 50	
			eSE	G.W.	22 33 01	
			eSR$_1$E	G.W.	22 38 56	
			eLE	G.W.	22 52 --	

Seismological Bulletin for the month of March, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
102	March 22	S.L.	eZ	M.S.	01 02 05	Epicentral Region:
			i(P')Z	M.S.	01 02 10	8°.7 S., 123°.8 E
			iP'Z	M.S.	01 02 19	H = $00^h43^m20^s$
			iPR_1Z	M.S.	01 05 02	Δ_{PR_1}-H = 137°.7
			iSKPZ	M.S.	01 05 32	Δ_{meas} = 137°.8
			$ipPR_1Z$	M.S.	01 05 47	
			iZ	M.S.	01 06 06	200±km deep.
			isSKPE	S.	01 06 49	
			ePR_2Z	M.S.	01 07 58	
			eSKKSE	S.	01 11 39	
			esSKKSE	S.	01 12 52	
			esSN	S.	01 15 06	
			ePPSE	S.	01 17 50	
			eE	S.	01 18 40	
			eSR_1Z	M.S.	01 22 53	
			e(FPSS)N	S.	01 23 59	
			eSR_2E	S.	01 28 59	
			eN	S.	01 36 39	
			F	S.	03.4	
		Fl.	iP'Z	G.W.	01 02 22	Δ_{PR_1}-H = 138°.0
			iPR_1Z	G.W.	01 05 03	Δ_{meas} = 137°.6
			eSKPZ	G.W.	01 05 38	
			esSKPE	G.W.	01 06 47	
			eZ	G.W.	01 11 38	
			eSKKSE	G.W.	01 11 41	
			ePPSE	G.W.	01 17 34	
			ePPPSE	G.W.	01 18 47	
			eSR_1	G.W.	01 23 00	
			eSR_2E	G.W.	01 28 01	
			F	G.W.	03.3	
		C.G.	eP'N	W.A.	01 02 23	Δ_{meas} = 138°.8
			eSKPN	W.A.	01 05 44	
			$epPR_1N$	W.A.	01 05 59	
103	March 22	S.L.	e(P)Z	M.S.	17 45 18	
104	March 22	S.L.	iPZ	M.S.	17 56 50	
			iZ	M.S.	17 57 03	
			eLE	S.	18 15 --	
105	March 22	S.L.	eN	S.	19 32 54	
			eLE	S.	19 57 --	
		Fl.	eLE	G.W.	19 58 --	
106	March 23	S.L.	iPZ	M.S.	12 11 00	Off West Coast of
			e(S)E	S.	12 15 59	Central America.
		Fl.	ePN	W.A.	12 11 05	Time correction uncertain.

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of March, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
107	March 24	S.L.	iPZ	M.S.	17 08 07	Epicentral Region:
			eSN	S.	17 13 07	by U.S.C.G.S.
						9° N., 83 1/2°W.
108	March 25	S.L.	iPZ	M.S.	04 30 06	Central America?
109	March 25	S.L.	eZ	M.S.	19 30 22	
110	March 26	S.L.	iPZ	M.S.	23 54 55	
		Fl.	ePN	W.A.	23 54 58	
111	March 28	S.L.	eLE	S.	11 25 --	
112	March 28	S.L.	eLE	S.	23 37 --	Also Fl.
113	March 31	S.L.	eP'Z	M.S.	03 11 03	Region by U.S.C.G.S.
			eZ	M.S.	03 11 17	5 1/2°S., 136 1/2°E.
			ePR_1Z	M.S.	03 13 23	
			iSKPZ	M.S.	03 14 09	H = $02^h51.9^m$
			iZ	M.S.	03 14 17	
			eE	M.S.	03 14 52	
			ePR_2E	M.S.	03 15 44	
			eSE	M.S.	03 21 40	
			eSR_1E	M.S.	03 30 20	
			eSR_2N	M.S.	03 35 46	
			eN	M.S.	03 46 18	
			eL	M.S.	03 55.4	
			F	M.S.	05.6	
		Fl.	eZ	G.W.	03 13 02	
			eSKPZ	G.W.	03 14 18	
			ePR_2Z	G.W.	03 15 42	
			eSE	G.W.	03 30 21	
			F	G.W.	05.3	
		C.G.	eSKPN	W.A.	03 14 17	
114	March 31	C.G.	eN	W.A.	20 42 28	
			eN	W.A.	20 42 41	
			eN	W.A.	20 44 11	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of March, 1944.

Minor Seismic Activity

Station	Date	From h m s	To h m s	Remarks
S.L.	March 1	21 32.5	22 01	Calif. reports quake.
S.L.	6	03 21.4	03 25.5	
S.L.	6	13 11.5	13 22.5	
S.L.	8	23 49.5	24 14	
Fl.	8	23 51	24 15	
S.L.	12	13 54	14 23	
S.L.	14	12 25	12 51	
S.L.	14	19 28	19 55	
S.L.	16	13 09.5	13 29	
S.L.	17	00 25	00 47	
Fl.	17	00 30	00 39	
S.L.	17	17.5	17.7	
S.L.	25	12 40.5	12 55.5	
Fl.	24	23 07.5	23 13	
S.L.	25	22 22.5	22 37	
S.L.	26	17.2	17.5	
Fl.	27	04.0	05.7	Seismic?
S.L.	27	04.3	06.5	Seismic?

James B. Macelwane, S. J.
Director

Paul E. Howe
Student Assistant

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of April, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
115	April 2	S.L.	eLN	S.	04 51 36	
116	April 3	S.L.	e(L)N	S.	13 04 39	
117	April 3	S.L.	eLN	S.	13 22 58	
118	April 3	S.L.	eSN	S.	18 16 38	
			eLN	S.	18 36.1	
		Fl.	eLE	G.W.	18 39 --	
119	April 4	S.L.	ePZ	M.S.	22 57 46	$H = 22^h46^m10^s$
			eSE	S.	23 07 22	Epicentral Region:
						35°2 S., 100°5 W.
						$\Delta_{P-H} = 74°6$
						$\Delta_{meas} = 74°5$
120	April 5	S.L.	iPZ	M.S.	04 53 14	$H = 04^h40.7^m$
			iZ	M.S.	04 53 21	Epicentral Region:
			eSN	S.	05 03 39	40° N., 31° E.
			eLE	S.	05 20.5	$\Delta_{P-H} = 84°8$
						$\Delta_{meas} = 84°9$
		Fl.	eLE	S.	05 21.4	
121	April 6	S.L.	iPZ	M.S.	02 39 25	
			eZ	M.S.	02 39 41	
		Fl.	ePN	W.A.	02 39 26	
122	April 7	S.L.	iPZ	M.S.	13 38 27	$H = 13^h32^m51^s$.
			iPR_1Z	M.S.	13 39 19	Epicentral Region:
			iPcPZ	M.S.	13 41 25	11°6 N., 86°3 W.
			eSN	S.	13 42 51	$\Delta_{P-H} = 26°9$
			eSN	S.	13 43 03	$\Delta_{meas} = 27°1$
			esSN	S.	13 43 20	Depth of Focus: 100±km.
			eSR_1N	S.	13 44 01	
			eN	S.	14 15 04	
		C.G.	ePN	W.A.	13 38 13	$\Delta_{P-H} = 25°4$
			iPN	W.A.	13 38 14	$\Delta_{meas} = 25°7$
			ePR_1N	W.A.	13 38 14	
			eSN	W.A.	13 42 31	
			eSR_1N	W.A.	13 43 36	
123	April 10	S.L.	iPZ	M.S.	02 32 10	

Seismological Bulletin for the month of April, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
124	April 10	S.L.	iPZ	M.S.	21 09 29	
			iZ	M.S.	21 09 49	
125	April 11	S.L.	(e)Z	M.S.	01 28 23	
126	April 11	S.L.	eLN	S.	02 43 --	
		Fl.	eLN	G.W.	02 43.3	
127	April 11	S.L.	iPZ	M.S.	23 06 01	$H = 23^h00^m45^s$
			eSN	S.	23 10 27	Epicentral Region: 15°1 N., 97°7 W. $\Delta_{P-H} = 24°1$ $\Delta_{meas} = 24°1$
		Fl.	ePZ	G.W.	23 06 03	
			eSE	G.W.	23 10 25	
128	April 13	S.L.	eN	S.	15 52 42	
129	April 17	S.L.	iPZ	M.S.	17 57 16	
			iZ	M.S.	17 57 38	
			eN	S.	18 10 49	
		Fl.	ePZ	G.W.	17 57 16	
			eZ	G.W.	17 57 39	
130	April 19	S.L.	ePZ	M.S.	22 43 14	Epicentral Region by U.S.C.G.S.: 29° S., 116° W. $H = 22^h32.0^m$
			iZ	M.S.	22 45 13	
			iSE	S.	22 52 23	
			eSR_2E	S.	23 00 13	
			eLN	S.	23 05 --	
		Fl.	ePZ	G.W.	22 43 19	
			iSE	G.W.	22 52 28	
			eSR_2E	G.W.	23 00 18	
			eLE	G.W.	23 05 --	
131	April 21	S.L.	ePZ	M.S.	15 08 15	$H = 15^h01^m27^s$
			eSE	S.	15 13 45	Epicenter: 4°8 N., 84°7 W. $\Delta_{P-H} = 34°1$ $\Delta_{meas} = 34°1$
			$e(SR_1)E$	S.	15 15 59	
			F	S.	15.6	
		Fl.	ePZ	G.W.	15 08 18	
			eSE	G.W.	15 13 48	
			eZ	G.W.	15 16 10	
132	April 22	S.L.	ePZ	M.S.	03 46 49	
			eSE	S.	03 55 58	
			eE	S.	04 04 05	
		Fl.	eSE	G.W.	03 56 03	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of April, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
133	April 23	S.L.	e(P)Z	M.S.	08 25 56	
134	April 23	S.L.	epPZ	M.S.	11 12 32	Epicentral Region by
			eSKSE	S.	11 21 00	U.S.C.G.S.:
			iE	S.	11 21 41	22°0 S., 177 1/2°W.
			eSN	S.	11 22 10	Depth approximately
			eSR_1E	S.	11 29 24	375 km.
135	April 24	S.L.	eLE	S.	02 28 --	
		Fl.	eLE	G.W.	02 28 --	
136	April 26	S.L.	iP'Z	M.S.	02 13 14	Epicentral Region:
			iPR_1Z	M.S.	02 15 01	1°0 S., 135°0 E.
			eSKPE	S.	02 16 25	H = $01^h54.3^m$
			ePR_2Z	M.S.	02 18 00	Agreement is poor.
			eSPE	S.	02 24 54	Possibly slightly deep.
			iSR_1E	S.	02 31 55	Δ_{PR_1-H} = 124°6
			ePPSSE	S.	02 32 30	Δ_{meas} = 124°4
			eE	S.	02 34 53	
			iSR_2E	S.	02 36 43	
			eLE	S.	02 53.6	
			F	S.	04.7	
		Fl.	eP'Z	G.W.	02 13 14	Δ_{SR_1-H} = 124°0
			iPR_1Z	G.W.	02 14 59	Δ_{meas} = 124°2
			eSKPE	G.W.	02 16 25	
			eSKSE	G.W.	02 20 14	
			eSPE	G.W.	02 24 55	
			eE	G.W.	02 30 35	
			eSR_1E	G.W.	02 31 48	
			iSR_1E	G.W.	02 31 52	
			iPPSSE	G.W.	02 32 26	
			iSR_2E	G.W.	02 36 39	
			F	G.W.	04.5	
137	April 26	S.L.	eZ	M.S.	18 46 52	
138	April 27	S.L.	eP'Z	M.S.	14 57 07	Epicentral Region:
			iPZ	M.S.	14 57 12	1°0 S., 134°0 E.
			iZ	M.S.	14 57 17	H = $14^h38.2^m$
			iPR_1Z	M.S.	14 59 01	Poor Agreement.
			iPR_2Z	M.S.	15 01 38	Possibly 50 km. deep.
			iSKSE	S.	15 04 22	
			eE	S.	15 05 51	Δ_{meas} = 124°4
			eSE	S.	15 07 07	
			iSPE	S.	15 08 57	
			iE	S.	15 11 29	
			iSR_1E	S.	15 15 53	
			F	S.	18.5	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of April, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
138 (Con't.)	April 27	Fl.	iP'Z	G.W.	14 57 15	Δ_{meas} = 124°2
			ePR$_1$Z	G.W.	14 58 52	
			iZ	G.W.	14 59 27	
			ePR$_2$Z	G.W.	15 01 11	
			iSKSE	G.W.	15 04 22	
			e(SKKS)E	G.W.	15 05 47	
			iSE	G.W.	15 07 26	
			iSPE	G.W.	15 08 59	
			eSR$_1$E	G.W.	15 15 36	
			eE	G.W.	15 16 02	
			eSR$_2$E	G.W.	15 20 37	
			F	G.W.	18.0	
139	April 27	S.L.	eP'Z	M.S.	19 24 13	Aftershock of No. 136. H = 19^{h}05.2^m
			ePR$_1$Z	M.S.	19 26 01	
			eSKSE	S.	19 31 19	
			eSPN	S.	19 36 01	
			eSR$_1$N	S.	19 42 54	
			eE	S.	19 43 40	
			eE	S.	19 45 49	
			eSR$_2$E	S.	19 47 49	
			eLE	S.	20 02 49	
			eME	S.	20 15 54	
			F	S.	21.5	
140	April 28	S.L.	(e)	M.S.	05 55 37	
141	April 28	S.L.	iPZ	M.S.	05 56 47	H = 05^{h}50^{m}28^s Epicentral Region: 8° N., 82 1/2°W. Δ_{P-H} = 30°7 Δ_{meas} = 30°7
			iPR$_1$ZN	M.S.	05 57 45	
			eSN	S.	06 01 51	
			eE	S.	06 03 42	
			F	M.S.	06.6	
		Fl.	iPZ	G.W.	05 56 49	Δ_{meas} = 30°9
			iPR$_1$Z	G.W.	05 57 47	
			eSN	G.W.	06 01 57	
			eE	G.W.	06 03 47	
			F	G.W.	06.5	
142	April 29	S.L.	e(P)Z	M.S.	06 34 37	
			eLN	S.	06 50 09	
		Fl.	eLN	G.W.	06 50 30	
143	April 29	S.L.	ePZ	M.S.	16 30 48	
144	April 29	S.L.	eZ	M.S.	18 30 59	Very weak.

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of April, 1944.

Minor Seismic Activity

Station	Date	From G.M.T. h m s	To h m s	Remarks
S.L.	April 8	03 55	04 02	Pasadena reports quake.
S.L.	9	19.1	19.5	
S.L.	10	04 33	04 51	
Fl.	10	04 33	04 40	
S.L.	16	09 26	09 43.5	
S.L.	18	12 46.5	12 53	
S.L.	25	18 56	19 17	

James B. Macelwane, S. J.
Director

Paul E. Howe
Student Assistant.

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of May, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
145	May 4	S.L.	eZ	M.S.	06 07 31	Very weak.
146	May 4	S.L.	iPZ	M.S.	06 20 17	
147	May 4	S.L.	e(L)N	S.	07 38 --	
		Fl.	e(L)	G.W.	07 37.5	
148	May 4	S.L.	ePZ	M.S.	20 42 58	Very weak. H = $20^h36.3^m$ Region: 6° N., 83° W.
149	May 6	S.L.	ePZ	M.S.	00 21 35	H = $00^h13^m45^s$
			iPZ	M.S.	00 21 38	Epicenter:
			iPZ	M.S.	00 21 41	23°0 N., 44°6 W.
			iZ	M.S.	00 22 29	Δ_{P-H} = 41°8
			ePR_1E	S.	00 23 13	Δ_{meas} = 41°8
			e(ScP)E	S.	00 27 41	
			iSE	S.	00 27 59	
			$e(SR_1)N$	S.	00 30 57	
			eE	S.	00 31 49	
			eLE	S.	00 33 20	
			F	S.	01.6	
		Fl.	ePZ	G.W.	00 21 37	Δ_{P-H} = 42°1
			eZ	G.W.	00 22 22	Δ_{meas} = 42°0
			ePR_1Z	G.W.	00 23 25	
			eSE	G.W.	00 27 53	
			$e(SR_1)N$	G.W.	00 30 36	
			eE	G.W.	00 31 50	
			eLE	G.W.	00 33 21	
			F	G.W.	01.6	
150	May 6	S.L.	ePZ	M.S.	17 47 18	Weak.
151	May 7	S.L.	iPZ	M.S.	15 18 15	Region: 58° N., 104° W.
			$e(PR_1)Z$	M.S.	15 20 04	H = $15^h10.0^m$
			eSE	S.	15 25 01	
			eScSN	S.	15 28 23	
			eLE	S.	15 32.7	
			F	S.	16.5	
		Fl.	eN	G.W.	15 25 23	
			eScSN	G.W.	15 28 22	
			F	G.W.	16.5	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of May, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks.
152	May 9	S.L.	ePZ	M.S.	14 37 08	H = $14^h29.9^m$
			epP Z	M.S.	14 37 19	Epicentral Region:
			iSE	S.	14 42 59	3° N., 54.5° W.
			eSR$_1$E	S.	14 45 22	Depth of Focus: 75±km.
			F	S.	15.6	
		Fl.	iSE	G.W.	14 43 02	
			eSR$_1$E	G.W.	14 46 03	
			F	G.W.	15.4	
153	May 9	S.L.	eZ	M.S.	19 34 12	May not be seismic.
			eZ	M.S.	19 39 02	
154	May 11	S.L.	(e)Z	M.S.	08 44 39	Very Weak.
155	May 12	S.L.	e(L)E	S.	07 54	
156	May 13	S.L.	eZ	M.S.	02 51 42	Weak; indefinite beginning.
157	May 13	S.L.	ePZ	M.S.	22 10 34	
			eLE	S.	22 24	
		Fl.	eLE	S.	22 24.3	
158	May 14	S.L.	iPZ	M.S.	11 07 38	H = $05^h54.5^m$
			ePR$_1$Z	M.S.	11 11 26	Region: 175° W., 14° S.
			eSKSE	S.	11 17 59	Probably deeper than normal.
		Fl.	ePZ	G.W.	11 07 38	
			ePR$_1$Z	G.W.	11 11 27	
			eSKSE	G.W.	11 17 59	
159	May 14	S.L.	eZ	M.S.	17 37 53	Very weak.
160	May 15	Fl.	eE	G.W.	19 45 19	
			eE	G.W.	19 47 55	
			eLE	G.W.	20 11 --	
161	May 17	S.L.	ePZ	M.S.	07 07 20	
162	May 18	S.L.	ePR$_1$Z	M.S.	05 02 39	H = $04^h43^m14^s$
			eSKSE	S.	05 08 37	Epicentral Region:
			eSKKSE	S.	05 09 45	1°5 S., 151° E.
			iSPE	S.	05 12 11	Δ_{PR_1-H} = 113°5
			eSR$_2$E	S.	05 22 44	Δ_{meas} = 113°3
			eLE	S.	05 35 --	
			F	S.	07.1	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of May, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
162 (Con't.)	May 18	Fl.	ePR$_1$Z	G.W.	05 02 38	Δ_{PR_1-H}=113°3
			eZ	G.W.	05 03 11	Δ_{meas} = 113°2
			eSKSE	G.W.	05 08 39	
			eSKKSE	G.W.	05 09 44	
			eSPE	G.W.	05 12 11	
			eSR$_2$E	G.W.	05 22 31	
			F	G.W.	06.9	
163	May 18	S.L.	ePZ	M.S.	20 07 47	H = 19^{h}55.5^m
			eE	S.	20 18 08	Epicentral Region:
			eE	S.	20 23 37	110° W., 41 1/2°S.
			F	S.	21.0	Δ_{P-H} = 81°8
						Δ_{meas} = 82°1
		Fl.	ePZ	G.W.	20 07 47	Δ_{P-H} = 81°8
			eN	G.W.	20 18 11	Δ_{meas} = 82°2
			eN	G.W.	20 23 --	
			F	G.W.	20.9	
164	May 19	S.L.	ePR$_1$Z	M.S.	00 38 41	H = 00^{h}19.3^m
			eSKSE	S.	00 44 37	Epicentral Region:
			eSKKSE	S.	00 45 47	2° S., 152 1/2°E.
			iSPE	S.	00 48 14	Δ_{PR_1-H} = 113°2
			eE	S.	00 58 03	
			eSR$_2$E	S.	00 58 48	
			eLE	S.	01 12 --	
			F	S.	03.3	
		Fl.	ePR$_1$Z	G.W.	00 38 39	Δ_{PR_1-H} = 112°9
			eE	G.W.	00 41 53	
			eSKSE	G.W.	00 44 43	
			eSKKSE	G.W.	00 45 45	
			eSPE	G.W.	00 48 09	
			eSR$_1$E	G.W.	00 54 08	
			eSR$_2$E	G.W.	00 58 47	
			eLE	G.W.	01 12 --	
			F	G.W.	03.4	
165	May 20	S.L.	eZ	M.S.	01 06.2	Weak beginning.
			eE	S.	01 08 07	
			eLE	S.	01 10 13	
		Fl.	eLE	G.W.	01 10 22	
166	May 20	S.L.	ePZ	M.S.	22 43 41	
167	May 20	S.L.	ePZ	M.S.	23 38 33	
			eE	S.	23 45 18	
			eLE	S.	23 53 --	
		Fl.	ePZ	G.W.	23 38 35	
			eLE	G.W.	23 54.5	

Seismological Bulletin for the month of May, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
168	May 21	S.L.	ePZ	M.S.	00 24 40	Very weak beginning.
			eE	S.	00 36 47	
			e(L)E	S.	00 40 --	
		Fl.	e(L)E	G.W.	00 40 --	
169	May 21	S.L.	ePZ	M.S.	00 45 01	Weak.
170	May 21	S.L.	ePZ	M.S.	04 50 56	$\Delta_{P-H} = 49°4$
			iPZ	M.S.	04 50 59	$\Delta_{meas} = 49°6$
			eSE	S.	04 58 14	
			eSR_1E	S.	05 01 34	
			eLE	S.	05 05 44	
			F	S.	05 38 --	
		Fl.	ePZ	G.W.	04 50 59	Epicentral Region:
			eSE	G.W.	04 58 17	11°1 N., 44° W.
			eLE	G.W.	05 06 --	$H = 04^h42^m08^s$
			F	G.W.	05 35 --	$\Delta_{P-H} = 49°8$
						$\Delta_{meas} = 49°8$
171	May 21	Fl.	ePZ	G.W.	17 12 53	U.S.C.G.S. gives:
			eSE	G.W.	17 17 14	$H = 17^h07.1^m$
			F	G.W.	17 32 --	Epicentral Region:
						19 1/2° N., 71° W.
172	May 23	S.L.	iPZ	M.S.	10 48 05	$H = 10^h38^m30^s$
			eSE	S.	10 55 47	Epicentral Region:
			eLE	S.	11 04.5	52° N., 171 1/2° W.
			eME	S.	11 09 --	$\Delta_{P-H} = 55°9$
			F	S.	12.0	
		Fl.	eSN	G.W.	10 55 44	$\Delta_{S-H} = 55°0$
173	May 24	S.L.	ePZ	M.S.	01 35 50	Epicenter: 20°0 N, 70°8 W.
			eSE	S.	01 40 14	$H = 01^h30^m26^s$
			eLE	S.	01 42 16	$\Delta_{P-H} = 24°9$
			F	S.	02.2	$\Delta_{meas} = 25°1$
		Fl.	ePZ	G.W.	01 35 56	$\Delta_{P-H} = 25°5$
			eSE	G.W.	01 40 30	$\Delta_{meas} = 25°3$
			F	G.W.	02.1	
174	May 25	S.L.	eP	M.S.	01 19 29	$H = 01^h06^m37^s$
			pP	M.S.	01 21 42	$\Delta_{S-H} = 102°5$
			SP	M.S.	01 22 53	$\Delta_{meas} = 102°7$
			PKP	M.S.	01 23 21	Epicenter:
			PR_1	M.S.	01 23 50	21°9 S., 179°2 W.
			pPR_1	M.S.	01 25 46	Depth = 625±km.
			pPKP	M.S.	01 25 48	
			PR_2	M.S.	01 26 13	
			SKS	S.	01 29 07	

(Con't. on next page)

No.	Date	Sta	Phase	Inst	h m s	Remarks
174 (Con't.)	May 25	S.L.	SKKS	S.	01 29 52	
			eS	S.	01 30 24	
			SP	S.	01 32 01	
			PS	S.	01 33 25	
			sS	S.	01 34 29	
			SR_1	S.	01 37 29	
			SR_2	S.	01 41 26	
		Fl.	ePZ	G.W.	01 19 29	$\Delta_{P-H} = 102.^{\circ}0$
			epPZ	G.W.	01 21 44	$\Delta_{meas} = 102.^{\circ}6$
			isPZ	G.W.	01 22 55	
			iPR_1Z	G.W.	01 23 50	
			eE	G.W.	01 26 54	
			iSKSE	G.W.	01 29 08	
			iSKKSE	G.W.	01 29 53	
			eSE	G.W.	01 30 30	
			iSPE	G.W.	01 32 08	
			iE	G.W.	01 33 01	
			esSE	G.W.	01 34 32	
			eSR_1E	G.W.	01 37 41	
			F	G.W.	04.3	
175	May 25	S.L.	iPR_1Z	M.S.	13 17 30	$H = 12^h58.1^m$
			iZ	M.S.	13 17 53	Epicentral Region:
			eE	S.	13 18 11	2° S., 152° E.
			iPR_2E	S.	13 19 58	$\Delta_{P-H} = 131.^{\circ}5$
			iSKSE	S.	13 23 30	$\Delta_{meas} = 131.^{\circ}1$
			iSKKSE	S.	13 24 32	
			iSE	S.	13 25 28	
			iE	S.	13 26 18	
			iPSE	S.	13 27 01	
			F	S.	17.8	
176	May 28	S.L.	iPZ	M.S.	00 05 04	
177	May 29	S.L.	iPZ	M.S.	02 50 02	$H = 02^h43^m20^s$
			eSE	M.S.	02 55 28	Epicentral Region:
			$e(SR_1)E$	S.	02 57 42	$5.^{\circ}9$ N., $82.^{\circ}3$ W.
			eSR_2E	S.	02 58 20	$\Delta_{P-H} = 33.^{\circ}3$
						$\Delta_{meas} = 33.^{\circ}3$
178	May 29	S.L.	ePZ	M.S.	02 59 27	
179	May 29	S.L.	ePZ	M.S.	15 30 30	$H = 15h19.0^m$
			e(S)E	S.	15 39 44	Region: 33° S., 53° W.
180	May 30	S.L.	e(P)Z	M.S.	03 52 47	
181	May 30	S.L.	eP'Z	M.S.	10 15 01	Indian Ocean?
			eZ	M.S.	10 17 31	
182	May 31	S.L.	iPZ	M.S.	11 01 45	South America.

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of May, 1944.

Minor Seismic Activity

Station	Date	From h m s	To h m s	Remarks
S.L.	May 4	08.8	09.3	Pas. has a "P" at $08^h\,06^m\,07^s$
S.L.	5	06.4	07.5	
Fl.	5	06.6	07.4	
S.L.	6	02.7	03.5	
S.L.	7	19.2	19.4	
S.L.	8	17.1	17.4	
S.L.	14	00.6	00.8	
S.L.	19	17 26 --	18 08 --	
Fl.	22	16 44 --	17 00 --	

James B. Macelwane, S. J.
Director

Paul E. Howe
Student Assistant

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of June, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
183	June 1	S.L.	eE	S.	02 49 54	
184	June 3	S.L.	eLE	S.	01 54.5	
		Fl.	eLE	G.W.	01 54.5	
185	June 3	S.L.	iSKSE	S.	04 33 18	H = $04^h10.8^m$ Region: 28°N., 145°E. About 400 km. deep. $\Delta SKS - H = 95°2$ $\Delta_{meas} = 95°2$
		Fl.	iPR_1Z	G.W.	04 27 23	$\Delta PR_1 - H = 95°2$
			$epPR_1Z$	G.W.	04 28 41	$\Delta_{meas} = 95°0$
			iSKSE	G.W.	04 33 18	
			eSE	G.W.	04 34 07	
			eE	G.W.	04 36 14	
186	June 3	S.L.	e(P)Z	M.S.	07 18 24	Epicentral Region by U.S.C.G.S. 20° N., 63° W. H = $07^h12^m13^s$
			ePR_1Z	M.S.	07 19 08	
			eLE	S.	07 26.3	
			F	S.	08.1	
		Fl.	eLE	G.W.	07 26.4	
187	June 3	S.L.	eE	S.	16 01 11	U.S.C.G.S. gives: H = $15^h46.4^m$ Epicentral Region: 8° S., 80° W. Slight depth.
			eE	S.	16 03 19	
188	June 4	S.L.	iSE	S.	13 46 20	
			e(L)E	S.	13 59 --	
			F	S.	15.4	
		Fl.	e(L)E	G.W.	13 59.5	
189	June 4	S.L.	iSE	S.	19 57 08	
			e(L)E	S.	20 09.5	
		Fl.	iSE	G.W.	19 57 06	Beginning masked by microseisms.
			e(L)E	G.W.	20 10 --	
190	June 5	S.L.	eLE	S.	01 19 --	

Seismological Bulletin for the month of June, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
191	June 6	S.L.	eSKKSE	S.	04 10 55	U.S.C.G.S. gives:
			eSE	S.	04 11 41	H = $03^h44.2^m$
			ePSE	S.	04 13 32	Epicentral Region:
			eLE	S.	04 38 --	5° S., 152°E.
192	June 7	S.L.	eLE	S.	06 41 --	
		Fl.	eLE	G.W.	06 41.5	
193	June 8	S.L.	iPZ	M.S.	02 46 19	H = $02^h38^m15^s$
			iPcPZ	M.S.	02 47 23	ΔP-H = 50°9
			epPZ	M.S.	02 48 11	Δmeas = 60°0
			iSN	S.	02 52 53	Epicentral Region:
			eScSN	S.	02 55 06	9 1/2° S., 72° W.
			eE	S.	02 56 39	Depth: 600+km.
		Fl.	iPZ	G.W.	02 46 23	
			iSN	G.W.	02 52 58	
			eScSE	G.W.	02 55 08	
194	June 8	S.L.	ePZ	M.S.	15 39 59	
195	June 9	S.L.	ePR_1Z	M.S.	20 54 44	U.S.C.G.S. gives:
			eSKSE	M.S.	21 00 24	H = $20^h35.0^m$
			e(PPS)E	M.S.	21 05 53	Epicentral Region:
			eSR_1E	M.S.	21 10 55	4° S., 150° E.
			F	M.S.	23.6	
		Fl.	ePR_1Z	G.W.	20 54 43	
			e(PPS)E	G.W.	21 05 52	
			eE	G.W.	21 10 12	
			F	G.W.	23.4	
196	June 10	Fl.	eE	G.W.	14 44 09	
			eLE	G.W.	14 56 --	
197	June 11	S.L.	eSE	S.	19 32 01	H = $19^h18^m54^s$
			eSR_1E	S.	19 34 31	Epicentral Region:
			M	S.	19 40 --	0°7 N., 85°7 W.
			F	S.	20.5	Δmeas = 38°1
		Fl.	ePZ	G.W.	19 26 14	ΔP-H = 38°1
			iSE	G.W.	19 32 07	Δmeas = 38°3
			eSR_1E	G.W.	19 34 35	
			F	G.W.	20.4	
198	June 12	S.L.	ePE	W.A.	10 50 34	Epicenter by Pasadena:
			eLN	S.	10 57 14	33° 58' N., 116° 45' W.
			eME	S.	10 58 55	H = $10^h45^m34^s$
		Fl.	ePE	W.A.	10 50 32	San Andreas fault in
			eME	G.W.	10 58 48	San Gorgonio Pass.

Seismological Bulletin for the month of June, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
199	June 12	S.L.	ePE	W.A.	11 21 30	
			iPE	W.A.	11 21 34	
			eSE	S.	11 25 42	
			iLN	S.	11 28 16	
			iME	S.	11 29 48	
			F	S.	11.9	
		Fl.	ePE	W.A.	11 21 29	
			iPE	W.A.	11 21 33	
			eSE	G.W.	11 25 40	
			eLN	G.W.	11 28 03	
			eME	G.W.	11 29 43	
200	June 13	S.L.	iPZ	M.S.	10 04 42	
			iZ	M.S.	10 04 58	
			eE	S.	10 12 20	
		Fl.	iPZ	G.W.	10 04 42	
201	June 13	S.L.	iPZ	M.S.	18 48 56	H = $18^h40.2^m$ Region: 7°S., 72°W.
		Fl.	iPZ	G.W.	18 48 58	
202	June 15	S.L.	e(P)Z	M.S.	16 45 32	Weak.
203	June 16	S.L.	ePZ	M.S.	00 18 51	
			iZ	M.S.	00 19 04	
		Fl.	iZ	G.W.	00 19 04	
204	June 16	S.L.	iPZ	M.S.	04 30 21	Near Japan. Depth: 100±km.
			ipPZ	M.S.	04 30 40	
			eSE	S.	04 40 48	
			esSE	S.	04 41 20	
		Fl.	eSE	G.W.	04 40 47	
			esSE	G.W.	04 41 19	
205	June 16	S.L.	iPZ	M.S.	21 56 41	H = $21^h51^m37^s$
			iZ	M.S.	21 57 16	Epicenter:
			iZ	M.S.	21 57 31	19°4 N., 104°7 W.
			eSN	S.	22 00 49	Δ_{P-H} = 22°9
			iSN	S.	22 00 55	Δ_{meas} = 22°9
			iE	S.	22 01 14	
			iSR$_1$E	S.	22 01 53	
			eLE	S.	22 02.7	
		Fl.	iPZ	G.W.	21 56 42	Δ_{P-H} = 23°0
			iE	W.A.	21 57 14	Δ_{meas} = 22°9
			iE	W.A.	21 57 33	
			iSN	G.W.	22 00 59	
			eL	C.W.	22 03 --	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of June, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
206	June 18	S.L.	eLE	S.	02 50 --	
207	June 18	S.L.	e(P)Z eMN	M.S. S.	22 17 37 22 24.2	U.S.C.G.S. Reports: H = $22^h12.3^m$ Epicentral Region: 26° N., 110° W.
208	June 19	S.L.	MN	S.	00 16.2	Epicenter by Pasadena: 33° 52' N., 118° 13' W. H = $00^h03^m33^s$
209	June 19	S.L.	M	S.	03 18.7	Epicenter by Pasadena: 33° 52' N., 118° 13' W. H = $03^h06^m07^s$
210	June 20	S.L. Fl.	iPZ iE iE iE	M.S. S. S. G.W.	02 02 50 02 10 41 02 12 00 02 10 42	
211	June 20	S.L. Fl.	ePZ eSE eSE	M.S. S. G.W.	12 29 08 12 39 36 12 39 38	Kurile Islands?
212	June 21	S.L.	ePE ePR$_1$E eSKSE iSKKSE ePS eSR$_1$E	S. S. S. S. S. S.	11 12 58 11 17 29 11 23 37 11 24 34 11 26 58 11 33 28	H = $10^h55^m20^s$ Epicenter: 21°6 S., 169°3 E. Probably deeper than normal. Δ_{P-H} = 111°1 Δ_{meas} = 111°1
		Fl.	ePZ ePR$_1$Z eSKSE eSKKSE ePSE eSR$_1$E	G.W. G.W. G.W. G.W. G.W. G.W.	11 12 56 11 17 29 11 23 37 11 24 31 11 26 59 11 33 39	Δ_{P-H} = 110°7 Δ_{meas} = 111°0
213	June 21	S.L.	ePZ eE	M.S. S.	17 12 30 17 22 08	Weak - no surface waves.
		Fl.	eZ	G.W.	17 22 07	
214	June 22	S.L.	e(P)Z (e)E F	M.S. S. S.	00 45 44 00 52 11 01 09 --	Weak.
215	June 23	S.L.	eZ	M.S.	06 47 58	

Seismological Bulletin for the month of June, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
216	June 23	S.L.	eZ	M.S.	07 42 32	Weak.
			eE	S.	07 50 34	
217	June 25	S.L.	ePZ	M.S.	01 13 35	Epicenter:
			iPZ	M.S.	01 13 36	14°5 N., 93°3 W.
			iZ	M.S.	01 13 44	H = $01^h08^m18^s$
			eSN	S.	01 18 00	Δ_{P-H} = 24°2
			F	S.	02.6	Δ_{meas} = 24°2
		Fl.	ePZ	G.W.	01 13 35	Δ_{P-H} = 24°2
			eSZ	G.W.	01 18 12	Δ_{meas} = 24°3
			eSE	G.W.	01 18 09	
			eE	G.W.	01 25 51	
			F	G.W.	02.0	
218	June 25	S.L.	ePZ	M.S.	04 28 56	U.S.C.G.S. gives:
			iPZ	M.S.	04 29 00	Epicentral Region:
			eSN	S.	04 39 21	39° N., 29° E.
			F	S.	05.8	Western Turkey.
		Fl.	ePZ	G.W.	04 28 54	Time Uncertain.
			iPZ	G.W.	04 28 57	
			eSE	G.W.	04 39 25	
			F	G.W.	05.6	
219	June 25	S.L.	ePZ	M.S.	07 10 23	Aftershock of No. 218.
			eSN	S.	07 20 54	
			F	S.	07.9	
		Fl.	ePZ	G.W.	07 10 21	Time Uncertain.
			eSN	G.W.	07 20 51	
220	June 25	S.L.	ePZ	M.S.	08 16 43	Epicentral Region:
			eSE	S.	08 24 20	51 1/2°N., 72 1/2°W.
						H = $08^h07^m03^s$
						Δ_{P-H} = 56°7
						Δ_{meas} = 56°7
		Fl.	eSE	G.W.	08 24 18	
221	June 25	S.L.	ePZ	M.S.	08 19 56	
			eSE	S.	08 27 33	
222	June 26	S.L.	eZ	M.S.	14 23 53	U.S.C.G.S. gives:
			eN	S.	14 44 22	H = $04^h16.3^m$
			eE	S.	14 46 07	Epicentral Region:
			F	S.	17.0	39° N., 29° W.
		Fl.	eE	G.W.	14 44 24	Time Uncertain.
			eE	G.W.	14 46 05	

Seismological Bulletin for the month of June, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
223	June 26	S.L.	iPZ	M.S.	17 53 36	Epicentral Region:
			iZ	M.S.	17 53 40	1° S., 24° W.
			iZ	M.S.	17 53 50	H = $17^h42.2^m$
			eZ	M.S.	17 54 35	
			iZ	M.S.	17 55 18	
			eSEN	S.	18 03 00	
			eE	S.	18 03 37	
			eN	S.	18 08 40	
			eLE	S.	18 16 10	
			F	S.	19.5	
224	June 27	S.L.	e(P)Z	M.S.	03 31 48	No S phases.
225	June 27	S.L.	(e)Z	M.S.	23 40 55	Foreshock of#228?
			eZ	M.S.	23 41 10	
			eN	S.	23 45 17	
			e(M)N	S.	23 50.2	
			F	S.	24.2	
226	June 28	S.L.	ePZ	M.S.	05 37 05	Foreshock of # 228.
			eE	S.	05 41 31	
			F	S.	Lost	
227	June 28	S.L.	ePZ	M.S.	05 51 33	Foreshock of # 228.
228	June 28	S.L.	iPZ	M.S.	08 04 10	H = $07^h58^m50^s$
			iZ	M.S.	08 07 14	Epicenter:
			iSE	S.	08 08 35	14°1 N., 92°5 W.
			eE	S.	08 11 09	Δ_{P-H} = 24°5
			F	S.	Lost	Δ_{meas} = 24°5
		C.G.	ePN	W.A.	08 03 55	Δ_{P-H} = 23°0
			eSN	W.A.	08 08 06	Δ_{meas} = 23°0
			F	W.A.	08.8	
229	June 28	S.L.	iPZ	M.S.	08 29 41	Aftershock of # 228.
230	June 28	S.L.	ePZ	M.S.	09 09 21	Aftershock of # 228.
231	June 28	S.L.	ePZ	M.S.	10 00 38	Aftershock of # 228.
232	June 28	S.L.	ePZ	M.S.	10 58 37	Aftershock of # 228.
233	June 29	S.L.	ePZ	M.S.	01 42 34	Aftershock of # 228.
			F	M.S.	02.3	
234	June 29	S.L.	ePZ	M.S.	06 25 33	Aftershock of # 228.
235	June 29	S.L.	ePZ	M.S.	11 38 44	Aftershock of # 228.
			eN	S.	11 45 59	
			F	M.S.	12.3	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of June, 1944.

Minor Seismic Activity

Station	Date	From h m s G.M.T.	To h m s	Remarks
S.L.	June 2	01 03 --	01 22 --	
S.L.	2	09.1	09.5	
S.L.	3	09.1	09.9	
S.L.	3	12 26 --	12 35 --	
S.L.	4	00 18 --	00 24 --	
S.L.	6	12 35 --	12 47 --	
S.L.	7	00 47.5	00 55.5	
S.L.	12	02.5	03.1	
S.L.	13	08 40 --	08 51 --	Also Fl.
S.L.	18	09 17 --	09 23 --	
S.L.	19	02 30.5	02 47.5	
S.L.	26	04 18 --	04 50 --	
S.L.	26	05 40 --	06 10 --	
S.L.	26	19 24 --	19 33 --	
S.L.	28	19 02.5	19 14 --	

James B. Macelwane, S. J.
Director

Paul E. Howe
Student Assistant

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of July, 1944

No.	Date	Station	Phase	Inst.	h m s	Remarks
236	July 1	S.L.	ePZ eSE F	M.S. S. S.	11 25 13 11 29 25 12.0	
237	July 2	S.L.	ePZ eSN F	M.S. S.	04 00 44 04 05 11	Region: 13° N., 92°W. H = 03h55.2m
238	July 2	S.L.	e(SKS)N eN	S. S.	09 00 01 09 03 41	Southwest Pacific Deep?
239	July 2	S.L.	ePZ F	M.S. S.	09 12 02 09 45	
240	July 2	S.L.	ePZ iPZ iSN F	M.S. M.S. S. S.	22 17 37 22 17 43 22 22 08 23 4[illegible]	Epicentral Region: 13° N., 93° W. H = 22h12m07s Δp-H = 2596 Δmeas = 2598
241	July 3	S.L.	e(P)Z eSN F	M.S. S. S.	04 27 37 04 32 05 04 58	Aftershock of No. 240
242	July 3	S.L.	eLN eLE F	S. S. S.	05 50 12 05 52 00 05 55	Pasadena gives: 35° 21' N., 117° 52' W. H = 05h38m23s
243	July 3	S.L.	iPZ	M.S.	07 30 42	
244	July 4	S.L.	e(P)Z eN F	M.S. S. S.	03 28 07 03 33 03 03 55	Weak
245	July 5	S.L.	iPZ eSN F	M.S. S. S.	09 51 58 09 56 28 10.3	Off the Pacific coast of Guatemala
246	July 5	S.L.	e(P)Z F	M.S. S.	10 18(54) 12.3	Very weak

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of July, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
247	July 9	S.L.	e(P)Z	M.S.	02 53 27	Weak.
			eLN	S.	03 02 22	
			F	S.	03 08 --	
248	July 10	S.L.	eE	W.A.	12 54 12	Mac instruments not operating.
249	July 10	Fl.	ePZ	G.W.	13 38 06	Near Samoa.
			i(pP)Z	G.W.	13 38 54	U.S.C.G.S. gives:
			iSKSE	G.W.	13 48 27	14° S., 176° W.
			F	G.W.	14 48 --	H = $13^h24.9^m$ h = 150km.
250	July 10	S.L.	ePR$_1$Z	M.S.	16 06 28	Region: 31°S., 178°W.
			e(SKS)E	S.	16 12 32	H = $15^h47^m46^s$
			i(SKKS)E	S.	16 13 25	ΔPR$_1$-H = 107°7
			ePSE	S.	16 15 48	Δmeas = 107°7
			F	S.	18 25 --	
		Fl.	ePR$_1$Z	G.W.	16 06 23	ΔPR$_1$-H = 107°1
			e(SKS)E	G.W.	16 12 31	Δmeas = 107°6
			e(SKKS)E	G.W.	16 13 25	
			F	G.W.	18 21 --	
251	July 12	S.L.	iPZ	M.S.	07 53 42	No surface work. Deep?
252	July 12	S.L.	ePZ	M.S.	08 09 13	Probably a foreshock of # 253.
			eSN	S.	08 15 37	
			e(SR$_2$)N	S.	08 18 52	
			F	S.	Lost in following.	
		Fl.	eZ	G.W.	08 09 26	
			eSE	G.W.	08 15 39	
			F	G.W.	Lost in following.	
253	July 12	S.L.	ePZ	M.S.	08 22 31	Epicentral Region:
			iSN	S.	08 28 57	18°7 N., 48°4 W.
			i(SR$_2$)N	S.	08 32 13	H = $08^h14^m45^s$
			F	S.	09 16 --	ΔP-H = 41°3
						Δmeas = 41°4
		Fl.	ePZ	G.W.	08 22 39	ΔP-H = 41°5
			iSE	G.W.	08 29 02	Δmeas = 41°6
			F	G.W.	09 19 --	
254	July 12	S.L.	ePZ	M.S.	19 34 47	44°7 N., 114°5 W.
			iPZ	M.S.	19 34 48	H = $19^h30^m22^s$
			eSE	S.	19 38 29	ΔP-H = 19°3
			i(L)E	S.	19 40 26	Δmeas = 19°3
			F	S.	20 44 --	
		Fl.	ePZ	G.W.	19 34 46	ΔP-H = 19°2
			eSE	G.W.	19 38 22	Δmeas = 19°2
			i(L)E	G.W.	19 40 10	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of July, 1944.(Con't.)

No.	Date	Sta	Phase	Inst	h m s	Remarks
255	July 13	S.L.	ePZ	M.S.	10 58 39	Japan.
			eSKSE	S.	11 09 18	Δ= about 94°
			eSKKSE	S.	11 09 54	
			eN	S.	11 10 01	
			e(S)N	S.	11 10 15	
			e(PPS)N	S.	11 12 05	
			F	S.	13.1	
		Fl.	eZ	G.W.	10 58 46	Time doubtful.
			eSKSE	G.W.	10 09 20	
			eSKKSE	G.W.	10 09 57	
			F	G.W.	12 52 --	
256	July 13	S.L.	ePZ	M.S.	19 55 57	Epicentral Region:
			eSN	S.	20 00 09	16°2 N., 97°0 W.
			F	S.	20 23 --	Δ_{P-H} = 23°2
						Δ_{meas} = 23°2
						H = 19h50m50s
		Fl.	ePZ	G.W.	19 55 58	Δ_{P-H} = 23°3
			eSE	G.W.	20 00 16	Δ_{meas} = 23°3
			F	G.W.	20 18 --	
257	July 15	S.L.	e(P)Z	M.S.	23 44 27	Very Weak.
258	July 16	S.L.	ePZ	M.S.	10 32 11	U.S.C.G.S. gives:
			eZ	M.S.	10 35 08	22° S., 175° W.
			eZ	M.S.	10 36 38	H = 10h19.1m
			iSN	S.	10 43 04	h = 450±km.
			eE	S.	10 44 27	
			e(SR_1)N	S.	10 50 00	
			F	S.	11 33 --	
		Fl.	eSE	G.W.	10 42 38	Time doubtful.
			eE	G.W.	10 43 07	
			e(sS)E	G.W.	10 45 26	
			e(SR_1)E	G.W.	10 50 09	
			F	G.W.	11 01 --	
259	July 17	S.L.	ePZ	M.S.	11 07 04	Turkey.
			e(S)E	S.	11 18 12	Δ= about 95°
			e(PPS)E	S.	11 20 08	
			e(SR_1)E	S.	11 24 53	
			F	S.	13.5	
260	July 19	S.L.	e(P)Z	M.S.	10 34 43	Region:
			e(SKS)N	S.	10 45 22	33° N., 140° E.
			iSE	S.	10 46 00	H = 10h21m18s
			iPSN	S.	10 47 05	Δ_{PS-H} = 95°1
			i(PPS)N	S.	10 48 08	Δ_{meas} = 94°4
			eSR_1N	S.	10 52 27	
			eSR_2E	S.	10 55 28	
			eLN	S.	11 06 48	
			F	S.	Lost.	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
260 (Con't.)	July 19	Fl.	ePZ	G.W.	10 34 37	Δ_{PR_1-H} = 94°7
			ePR$_1$Z	G.W.	10 38 28	Δ_{meas} = 94°2
			eSKSN	G.W.	10 45 05	
			iSE	G.W.	10 45 57	
			e(PS)E	G.W.	10 47 14	
			eE	G.W.	10 48 28	
			eSR$_1$E	G.W.	10 52 34	
			F	G.W.	Lost	
261	July 19	S.L.	ePZ	M.S.	11 15 49	South America.
262	July 19	S.L.	ePZ	M.S.	11 28 44	
263	July 19	S.L.	ePZ	M.S.	11 35 27	
264	July 19	S.L.	ePZ	M.S.	16 35 18	Central America.
			eSE	S.	16 40 18	
			F	S.	17 +	
		Fl.	ePZ	G.W.	16 35 25	Time doubtful.
			e(S)E	G.W.	16 39 46	
			F	G.W.	17 12 --	
265	July 19	Fl.	ePZ	G.W.	18 04 08	Central America?
			eSE	G.W.	18 09 16	Time doubtful.
			F	G.W.	18 45 --	
266	July 20	Fl.	eLE	G.W.	00 03.5	Time doubtful.
			F	G.W.	00 52 --	
267	July 20	Fl.	eLE	G.W.	02 47 18	Time doubtful.
			F	G.W.	02 57 --	
268	July 20	S.L.	eSKSN	S.	20 31 04	
			eSKKSE	S.	20 31 37	
			e(SR$_1$)E	S.	20 37 19	
			eN	S.	20 38 26	
			F	S.	22 17 --	
		Fl.	eSKSE	G.W.	20 31 07	Time doubtful.
			eSKKSE	G.W.	20 31 41	
			F	G.W.	22 05 --	
269	July 21	S.L.	e(F)Z	M.S.	02 24 57	
270	July 21	S.L.	eZ	M.S.	10 30 15	
			e(L)N	S.	10 40 32	
			F	S.	10 44 --	
271	July 21	S.L.	ePZ	M.S.	12 30 54	Epicentral Region:
			eZ	M.S.	12 30 59	43°0 N., 127°2 W.
			iZ	M.S.	12 31 04	H = 12^{h}24^{m}54^s
			eSE	S.	12 35 37	Δ_{P-H} = 28°6
			eLN	S.	12 38 30	Δ_{meas} = 28°6
			F	S.	13 17 --	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
271 (Con't.)	July 21	Fl.	ePZ	G.W.	12 30 58	Time doubtful.
			eSE	G.W.	12 35 40	Δ_{meas} = 28°4
			F	G.W.	Lost.	
272	July 21	S.L.	e(P)Z	M.S.	19 04 10	
			eE	S.	19 15 17	
			F	S.	20 22 --	
273	July 22	S.L.	iPZ	M.S.	11 33 28	Deep?
			iZ	M.S.	11 33 45	Region: 17°N., 95°W.
			iSE	S.	11 37 28	H = $11^h28^m35^s$
			iE	S.	11 37 45	Δ_{P-H} = 21°8
			iN	S.	11 38 08	Δ_{meas} = 21°9
			iSR_1N	S.	11 38 20	
			iSR_2N	S.	11 38 27	
			F	S.	12 12 --	
		Fl.	iPZ	G.W.	11 33 30	Δ_{P-H} = 22°0
			iZ	G.W.	11 33 49	Δ_{meas} = 22°0
			iSE	G.W.	11 37 30	
			iE	G.W.	11 37 49	
			F	G.W.	12 04 --	
274	July 22	S.L.	ePZ	M.S.	11 56 40	Aftershock?
275	July 23	S.L.	eZ	M.S.	15 52(54)	Very Weak.
276	July 23	S.L.	iPZ	M.S.	16 24 04	Epicentral Region:
			ipPZ	M.S.	16 24 59	23°3 S., 67°0 W.
			ePR_1Z	M.S.	16 26 41	H = $16^h13^m50^s$
			eSE	S.	16 32 26	h = 250±km.
			e(PS)E	S.	16 33 30	Δ_{P-H} = 65°6
			eE	S.	16 35 17	Δ_{meas} = 65°9
			F	S.	17 04 --	
277	July 24	S.L.	eSKSE	S.	07 55 36	Region:
			eSKKSE	S.	07 56 40	10°5 S., 161°E.
			ePSE	S.	07 59 06	H = $07^h30^m27^s$
			epPSE	S.	07 59 35	h = 50±km.
			ePPSE	S.	08 00 20	
			F		10.0	
278	July 24	S.L.	e(P)Z	M.S.	22 12 58	Weak.
279	July 27	S.L.	iPZ	M.S.	00 13 23	54°3 N., 163°5 W.
			ipPN	S.	00 13 40	H = $00^h04^m30^s$
			iP_cPZ	M.S.	00 14 31	h = 80±km.
			iSN	S.	00 20 37	Δ_{P-H} = 50°8
			isSN	S.	00 21 08	Δ_{meas} = 50°9
			iScSN	S.	00 23 06	
			isScSN	S.	00 23 40	
			F	S.	03.5	
		C.G.	ePE	W.A.	00 13 33	Δ_{P-H} = 52°1
			eSE	W.A.	00 20 55	Δ_{meas} = 52°2
			F	W.A.	01.0	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of July, 1944. (Con't.)

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
280	July 27	S.L.	ePZ	M.S.	00 52 46	U.S.C.G.S. Gives: 44°7 N., 115°2 W. H = 00h48.3m
281	July 27	S.L.	ePʹZ	M.S.	08 37 47	Region: 12° N., 92°5 E. H = 08h18m40s
			ePR$_1$Z	M.S.	08 39 58	
			eSKPZ	M.S.	08 41 04	
			eSE	S.	08 47 57	
			eE	S.	08 48 24	
			ePSE	S.	08 50 25	
			eSR$_1$E	S.	08 57 10	
			F	S.	10.4	
282	July 27	S.L.	ePZ	M.S.	10 36 46	Weak.
283	July 28	S.L.	ePZ	M.S.	03 43 10	South America?
284	July 29	S.L.	ePZ	M.S.	11 43 03	Pasadena gives: 40° N., 125° W. H = 11h37m15s
			e(M)E	S.	11 52 17	
			F	S.	12.0	
285	July 29	S.L.	e(P)Z	M.S.	13 08 59	Indefinite beginning.
286	July 29	S.L.	e(SKS)N	S.	22 47 36	
			e(M)E	S.	23 13 --	
			F	S.	24.1	
287	July 30	S.L.	iPZ	M.S.	04 13 02	Approximately: 37° N., 21° W. Possibly deeper than normal.
			iZ	M.S.	04 13 05	
			iZ	M.S.	04 13 08	
			iSE	S.	04 23 17	
			i(sS)E	S.	04 23 36	
		Fl.	ePZ	G.W.	04 13 03	
			eSE	G.W.	04 23 17	
			e(sS)E	G.W.	04 23 37	
			F	G.W.	05.2	
288	July 31	S.L.	eN	W.A.	00 52 51	Local shock? Also recorded at Little Rock.(No time marks.)
			eN	W.A.	00 53 10	
			F	W.A.	00 55 --	
		Fl.	eE	W.A.	00 52 48	
			eN	W.A.	00 53 27	
			F	W.A.	00 55 --	
289	July 31	S.L.	e(P)Z	M.S.	21 34 53	
			eN	S.	21 39 48	
			F	S.	22 06 --	

Minor Seismic Activity

Station	Date	From h m s	To h m s
S.L.	July 4	01 20	01 38
S.L.	7	19 00	19 46
S.L.	8	01 42	02 16
S.L.	11	19.3	20.2
S.L.	13	00 48	01 56
S.L.	16	00 20	01 31
S.L.	19	01 19	01 25
S.L.	22	06 57	07 20
S.L.	23	10 59	13 33
Fl.	25	05 --	06 --
S.L.	30	00 58	01 33
S.L.	30	09 55	10 48
S.L.	31	18 28	19 06

James B. Macelwane, S. J.
Director

Harry K. Haill
Student Assistant

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

SYMBOLS AND STATION CONSTANTS

CG—CAPE GIRARDEAU (in cooperation with Southeast Missouri State Teachers College, Cape Girardeau, Mo., U. S. A.) — (inaugurated, 1938)
Latitude: geographical, 37°19′N; geocentric, 37°08′N.
Longitude: 89°32′W. Altitude: h = 134m, H+h = 4km.
Lithologic foundation: limestone.
Seismographs: Wood-Anderson short period EN.
Director of the Station: Professor John Harty.

FL—FLORISSANT (in cooperation with Saint Stanislaus Seminary, Florissant, Missouri, U. S. A.)—(inaugurated, 1928)
Latitude: geographical, 38°48′06″N; geocentric, 38°37′N.
Longitude: 90°22′12″W. Altitude: h = 160m, H+h = 4km.
Lithologic foundation: Pennsylvanian shale.
Seismographs: Galitzin-Wilip ENZ, Wood-Anderson short period EN.
Clock: Shortt synchronome.
Director of the Station: Reverend James B. Macelwane, S. J.

LR—LITTLE ROCK (in cooperation with Saint John's Seminary, Pulaski Heights, Little Rock, Arkansas, U. S. A.)—(inaugurated, 1930).
Latitude: geographical, 34° 47′N; geocentric, 34°36′N.
Longitude: 92°21′W. Altitude: h = 135m, H+h = 5 km.
Lithologic foundation: sandstone.
Seismographs: Wood-Anderson short period EN.
Clock: Howard-Gaertner.
Director of the Station: Monsignor Joseph A. Murray.

SL—SAINT LOUIS I, Administration Building of Saint Louis University, 221 North Grand Boulevard — (inaugurated, January 1, 1910).
Latitude: geographical, 38°38′11″N; geocentric, 38°27′N.
Longitude: 90°14′00″W. Altitude: h = 160m, H+h = 4 km.
Lithologic foundation: clay.
Seismograph: Wiechert (80 kg) EN.
Clock: Wiechert.

II, University Gymnasium, 3672 West Pine Boulevard — (inaugurated, 1927).
Latitude: geographical, 38°38′10″N; geocentric, 38°27′N.
Longitude: 90°14′10″W. Altitude: h = 161m, H+h = 4 km.
Lithologic foundation: Mississippian limestone.
Seismographs: Wood-Anderson short period EN.
Macelwane-Sprengnether Z; Sprengnether NE.
Clock:Wiechert.
Director: Reverend James B. Macelwane, S.J.

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of August, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
290	Aug. 1	S.L.	ePZ	M.S.	15 33 44	Mexico; Tacubaya gives:
			eSN	S.	15 37 56	15°8 N., 97°4 W.
			F	S.	15.7	
291	Aug. 2	S.L.	iPZ	M.S.	12 34 13	Region: 10° N., 84° W.
			eSN	S.	12 39 14	H = $12^h28^m10^s$
			F	S.	13.2	
292	Aug. 2	S.L.	e(SKS)E	S.	18 13 24	
			e(SKKS)E	S.	18 14 06	
			F	S.	19.3	
		Fl.	e(SKS)E	G.W.	18 13 26	
			F	G.W.	19.2	
293	Aug. 2	S.L.	iPZ	M.S.	20 20 30	Off the coast of Chile.
			eSE	S.	20 29 57	Deep?
			eE	S.	20 30 14	
			F	S.	20.6	
		Fl.	eSE	G.W.	20 29 58	
			eE	G.W.	20 30 16	
			F	G.W.	20.5	
294	Aug. 2	S.L.	ePZ	M.S.	20 39 55	Very similar to
			eSE	S.	20 49 22	preceding.
			eE	S.	20 49 38	
			F	S.	20.9	
		Fl.	eSE	G.W.	20 49 24	
			F	G.W.	20.9	
295	Aug. 2	S.L.	eLN	S.	23 57 40	
			F	S.	24.6	
296	Aug. 4	S.L.	ePZ	M.S.	20 00 14	Southwest of Central
			e(S)N	S.	20 04 27	America.
			F	S.	20.1	
297	Aug. 4	S.L.	iPZ	M.S.	20 38 36	Approximately:
			eSN	S.	20 46 18	25° S., 75° W.
			e(ScS)E	S.	20 48 20	H = $20^h29.2^m$
			F	S.	21.3	Possibly slightly deeper
		Fl.	eSE	G.W.	20 46 18	than normal.
			e(ScS)E	G.W.	20 48 24	
			F	G.W.	20.9	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of August, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
298	Aug. 5	S.L.	iPZ	M.S.	01 06 28	Foreshock of # 299.
			e(PcP)Z	M.S.	01 07 39	H = $00^h57^m19^s$
			eSN	S.	01 13 56	
			eN	S.	01 14 05	
			eN	S.	01 15 25	
			F	S.	01.5	
		Fl.	iPZ	G.W.	01 06 30	
			eE	G.W.	01 14 00	
			F	G.W.	01.3	
299	Aug. 5	S.L.	iPZ	M.S.	01 33 19	13°6 S., 92°7 W.
			iZ	M.S.	01 33 22	H = $01^h24^m10^s$
			iZ	M.S.	01 34 25	Δ_{P-H} = 52°2
			eSE	S.	01 40 48	Δ_{meas} = 52°1
			F	S.	02.2	
		Fl.	iPZ	G.W.	01 33 21	Δ_{P-H} = 52°5
			eSE	G.W.	01 40 50	Δ_{meas} = 52°2
			F	G.W.	02.2	
300	Aug. 5	S.L.	ePZ	M.S.	13 12 26	12°1 N., 87°2 W.
			epPZ	M.S.	13 12 40	H = $13^h07^m00^s$
			e(PR_1)Z	M.S.	13 12 53	h = 100±km.
			i(PR_2)Z	M.S.	13 13 21	Δ_{P-H} = 26°2
			eN	S.	13 16 36	Δ_{meas} = 26°3
			eSE	S.	13 16 51	
			i(SR_1)N	S.	13 17 41	
			iLN	S.	13 19 31	
			F	S.	13.9	
		Fl.	ePZ	G.W.	13 12 28	Δ_{P-H} = 26°4
			eSE	G.W.	13 16 55	Δ_{meas} = 26°4
			e(SR_1)E	G.W.	13 17 47	
			F	G.W.	13.9	
301	Aug. 6	S.L.	eE	S.	15 53 05	
			eSE	S.	15 53 39	
			F	S.	16.0	
		Fl.	eSE	G.W.	15 53 34	Time Uncertain.
			F	G.W.	16.0	
302	Aug. 6	S.L.	e(PR_1)Z	M.S.	18 33 31	
			eN	S.	18 50 33	
			F	S.	21.1	
		Fl.	e(PR_1)Z	G.W.	18 33 28	Time Uncertain.
			F	G.W.	20.7	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of August, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
303	Aug. 7	S.L.	ePZ	M.S.	00 12 11	Mexico.
			ePR$_2$Z	M.S.	00 12 46	
			eSN	S.	00 16 13	
			F	S.	00.5	
		Fl.	ePZ	G.W.	00 12 12	
			F	G.W.	00.3	
304	Aug. 7	S.L.	ePZ	M.S.	03 35 08	Epicentral Region: 15°.5 S., 73°.8 W. H = 03^{h}25^{m}32^s Δ_{P-H} = 56°.2 Δ_{meas} = 56°.4 the character of the recordings of this earthquake indicate that it is deeper than normal. However, the present interpretation is based on a normal depth.
			iPZ	M.S.	03 35 09	
			iZ	M.S.	03 35 22	
			iSE	S.	03 43 02	
			iN	S.	03 43 47	
			i(ScS)E	S.	03 44 54	
			iN	S.	03 45 39	
			iN	S.	03 46 14	
			iSR$_1$N	S.	03 47 06	
			i(SR$_2$)N	S.	03 48 46	
			i(SR$_3$)N	S.	03 49 57	
			F	S.	07.3	
305	Aug. 7	S.L.	ePZ	M.S.	05 07 55	
306	Aug. 7	S.L.	eSKSE	S.	13 09 32	New Hebrides. Δ= about 110°.0
			eSE	S.	13 11 09	
			ePSE	S.	13 13 55	
			eE	S.	13 15 13	
			F	S.	Lost	

No record at Saint Louis from 13^{h}50^m August 7 to 14^{h}30^m August 8.

307	Aug. 7	Fl.	iPZ	G.W.	18 52 29	16°.1 N., 97°.7 W. H = 18^{h}47^{m}17^s Δ_{P-H} = 23°.7 Δ_{meas} = 23°.7
			eSE	G.W.	18 56 46	
			F	G.W.	19.4	
		C.G.	ePN	W.A.	18 52 19	Δ_{P-H} = 22°.6 Δ_{meas} = 22°.3
			eSE	W.A.	18 56 45	
			F	W.A.	19.0	
308	Aug. 7	Fl.	ePZ	G.W.	23 48 06	Epicentral Region: 15°.0 S., 72°.2 W. H = 23^{h}38^{m}31^s Δ_{P-H} = 56°.0 Δ_{meas} = 56°.2
			iSE	G.W.	23 55 59	
			iE	G.W.	23 56 10	
			e(ScS)E	G.W.	23 57 51	
			F	G.W.	24.3	
309	Aug. 8	C.G.	ePN	W.A.	03 43 11	Guatemala.
			eSE	W.A.	03 47 19	
			F	W.A.	03.9	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of August, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
310	Aug. 8	Fl.	iPR_1Z	G.W.	08 53 47	4°9 S., 140°5 E.
			$ipPR_1Z$	G.W.	08 54 11	H = $08^h33^m30^s$
			$e(PR_2)Z$	G.W.	08 56 49	h = 100±km.
			eSKSE	G.W.	08 59 05	Δ_{PR_1-H} = 123°0
			esSKSE	G.W.	08 59 50	Δ_{meas} = 123°1
			ePSE	G.W.	09 03 40	
			epPSE	G.W.	09 04 04	
			ePPSZ	G.W.	09 05 02	
			e(pPPS)E	G.W.	09 05 42	
			iSR_1N	G.W.	09 10 17	
			$isSR_1N$	G.W.	09 10 58	
			F	G.W.	10.3	
311	Aug. 9	S.L.	iPZ	M.S.	04 21 19	18°9 N., 67°2 W.
			iPR_1Z	M.S.	04 21 54	H = $04^h15^m28^s$
			eSN	S.	04 26 01	Δ_{P-H} = 27°6
			i(P)Z	M.S.	04 26 32	Δ_{meas} = 28°0
			F	M.S.	05.0	Another shock?
		Fl.	eSE	G.W.	04 26 07	Δ_{S-H} = 27°7
			F	G.W.	04.9	Δ_{meas} = 28°1
312	Aug. 9	S.L.	ePZ	M.S.	05 41 05	Central America?
			F	S.	05.9	
313	Aug. 9	S.L.	eSE	S.	07 44 45	
			F	S.	07.8	
314	Aug. 10	S.L.	ePZ	M.S.	01 59 09	51°5 N., 129°8 W.
			iPZ	M.S.	01 59 10	H = $01^h52^m52^s$
			eSE	S.	02 04 12	Δ_{P-H} = 30°5
			iSE	S.	02 04 18	Δ_{meas} = 30°5
			iSR_1E	S.	02 06 03	
			iLE	S.	02 07 57	
			F	S.	05.5	
		C.G.	ePE	W.A.	01 59 16	Δ_{P-H} = 31°3
			eLN	W.A.	02 09 49	Δ_{meas} = 31°7
			F	W.A.	03.0	
315	Aug. 10	S.L.	eP'E	S.	11 08 34	New Guinea.
			eN	S.	11 11 56	Δ = about 125°0
			e(SKS)E	S.	11 14 35	
			eE	S.	11 15 39	
			eSKKSN	S.	11 16 37	
			eSE	S.	11 18 16	
			eE	S.	11 23 10	
			F	S.	Lost in following	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
316	Aug. 10	S.L.	iPZ	M.S.	11 36 32	16°0 N., 96°2 W.
			ipPZ	M.S.	11 36 43	H = $11^h31^m26^s$
			iSPZ	M.S.	11 36 48	h = 50±km.
			i(PR$_1$)N	S.	11 37 12	Δ_{P-H} = 23°3
			iSE	S.	11 40 46	Δ_{meas} = 23°3
			isSE	S.	11 41 04	
			iSR$_1$E	S.	11 41 20	
			F	S.	13.4	
		C.G.		W.A.	11 36 16	Δ_{P-H} = 22°1
			eSE	W.A.	11 40 20	Δ_{meas} = 22°0
			F	W.A.	11.8	
317	Aug. 10	S.L.	eSE	S.	19 50 08	
			eE	S.	19 55 00	
			F	S.	20.5	
318	Aug. 13	S.L.	e(P)Z	M.S.	08 27 42	Indefinite beginning.
			e(S)E	S.	08 32 46	Foreshock of following?
			F	S.	Lost	S phase doubtful.
319	Aug. 13	S.L.	iPZ	M.S.	08 28 47	
			eN	S.	08 33 07	----Part of preceding?
			eSE	S.	08 33 47	
			eE	S.	08 34 10	
			eN	S.	08 35 21	----Part of preceding?
			eN	S.	08 36 20	49°9 N., 127°7 W.
			eLN	S.	08 37 56	H = $08^h22^m40^s$
			F	S.	09.4	Δ_{P-H} = 29°4
						Δ_{meas} = 29°2
		Fl.	ePE	G.W.	08 28 43	Vertical not operating.
			eSE	G.W.	08 33 43	Δ_{P-H} = 29°0
			F	G.W.	09.5	Δ_{meas} = 29°1
320	Aug. 14	S.L.	iPZ	M.S.	11 15 30	58°4 N., 151°9 W.
			ipPZ	M.S.	11 15 53	H = $11^h07^m32^s$
			iZ	M.S.	11 17 36	h = 100±km.
			iSE	S.	11 22 01	Δ_{P-H} = 43°9
			isSE	S.	11 22 40	Δ_{meas} = 43°8
			iSR$_1$N	S.	11 25 27	
			isSR$_1$E	S.	11 26 04	
			F	S.	12.0	
		Fl.	epPE	G.W.	11 15 50	Vertical not operating.
			iSE	G.W.	11 21 58	Δ_{pP-H} = 43°6
			isSE	G.W.	11 22 36	Δ_{meas} = 43°7
			iSR$_1$E	G.W.	11 25 18	
			isSR$_1$E	G.W.	11 25 50	
			F	G.W.	11.9	
321	Aug. 14	Fl.	eN	G.W.	14 51 52	U.S.C.G.S. gives:
			eE	G.W.	14 58 29	Philippine Islands.
			eLE	G.W.	15 17 --	
			F	G.W.	16.2	

Seismological Bulletin for the month of August, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
322	Aug. 14	S.L.	ePZ	M.S.	16 56 53	Weak.
323	Aug. 14	S.L.	e(P)Z	M.S.	17 57 16	Indefinite beginning.
			eZ	M.S.	17 58 20	
324	Aug. 14	S.L.	ePZ	M.S.	23 05 57	
			iZ	M.S.	23 06 12	
325	Aug. 15	S.L.	eZ	M.S.	01 39 11	Indefinite beginning.
			eSKSE	S.	01 46 50	Δ = about 100°0
			ePSN	S.	01 49 13	
			ePPSE	S.	01 50 33	
			eSR$_1$E	S.	01 55 29	
			F	S.	03.0	
326	Aug. 15	S.L.	ePR$_1$Z	M.S.	12 06 22	13°0 N., 142°3 E.
			iSKSE	S.	12 12 21	H = 11^{h}47^{m}42^s
			isSKSE	S.	12 13 12	h = 150±km.
			iSN	S.	12 13 47	ΔPR$_1$-H = 109°0
			isSN	S.	12 15 39	Δmeas = 108°7
			ePSN	S.	12 15 45	
			ipPSN	S.	12 16 22	
			iPPSN	S.	12 16 42	
			eE	S.	12 18 27	
			iSR$_1$E	S.	12 21 26	
			isSR$_1$E	S.	12 22 14	
			F	S.	14.1	
		Fl.	iSKSE	G.W.	12 12 18	ΔSKS-H = 109°3
			isSKSE	G.W.	12 13 10	Δmeas = 108°6
			iSE	G.W.	12 13 40	
			ePSE	G.W.	12 15 45	
			ipPSE	G.W.	12 16 20	
			e(PPS)E	G.W.	12 16 44	
			iSR$_1$E	G.W.	12 21 22	
			esSR$_1$E	G.W.	12 22 14	
			F	G.W.	Lost.	
327	Aug. 16	S.L.	eLE	S.	15 27 20	
			F	S.	15.6	
		Fl.	eLE	G.W.	15 27 15	
			F	G.W.	15.5	

No Saint Louis Records from August 16, 18^h to August 18, 15^h.

328	Aug. 18	Fl.	iPZ	G.W.	10 46 05	37°9 N., 139°2 E.
			ipPZ	G.W.	10 46 41	H = 10^{h}33^{m}27^s
			i(sP)Z	G.W.	10 46 56	h = 200±km.
			iPR$_1$Z	G.W.	10 49 41	ΔP-H = 90°4
			ipPR$_1$Z	G.W.	10 50 15	Δmeas = 90°8
			iSKSE	G.W.	10 56 23	
			iSE	G.W.	10 56 47	

(Con't. on next page)

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
328	August 18 (Con't)	Fl	isSKSE	G.W	10 57 25	
			i(sS)E	G.W.	10 57 41	
			i(PS)E	G.W.	10 58 50	
			iSR_1E	G.W.	11 02 49	
			$isSR_1E$	G.W.	11 03 44	
			F	G.W.	12.5	
		C.G.	ePE	W.A.	10 46 13	ΔP-H = 92°0
			eSKSE	W.A.	10 56 23	Δmeas = 92°1
			eSE	W.A.	10 57 02	
			e(sS)E	W.A.	10 58 01	
			F	W.A.	11.0	
329	August 18	S.L.	ePg	M.S.	19 32 49	Epicentral Region:
			eSN	S.	19 41 06	18°1 S., 71°3 W.
			F	S.	20.7	H = $19^h22^m48^s$
						ΔP-H = 59°7
						Δmeas = 59°7
		Fl.	ePg	G.W.	19 32 49	ΔP-H = 59°8
			iSE	G.W.	19 41 08	Δmeas = 59°8
			eE	G.W.	19 42 41	
			F	G.W.	20.7	
330	August 21	S.L.	iPg	M.S.	02 48 53	
			e(S)N	S.	02 53 51	
			F	S.	03.0	
331	August 21	S.L.	ePg	M.S.	20 25 09	General Region:
			eSN	S.	20 33 52	2° N., 33° W.
			ePSE	S.	20 34 15	H = 20^h14^m7
			$e(SR_1)N$	S.	20 41 10	
			F	S.	21.3	
		Fl.	ePg	G.W.	20 25 14	Time doubtful
			eSN	G.W.	20 34 00	
			F	G.W.	21.2	
332	August 22	S.L.	ePg	M.S.	07 25 23	Weak
			F	S.	07.6	
333	August 22	S.L.	e(P)g	M.S.	17 01 37	Very Weak
334	August 22	S.L.	ePg	M.S.	19 29 23	
			F	M.S.	20.0	
335	August 23	S.L.	eN	S.	09 17 51	
			e(L)N	S.	09 20.1	
			F	S.	09.4	
336	August 24	S.L.	iPg	M.S.	00 05 07	Region:
			ipPg	M.S.	00 05 31	16°5 N., 96° W.
			ig	M.S.	00 05 37	H = $00^h00^m10^s$
			iSN	S.	00 09 08	h = 100± Km
			isSE	S.	00 09 38	ΔP-H = 22°9
			F	S.	00.5	Δmeas = 22.9

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
336 (Con't.)	August 24	Fl.	ePZ	G.W.	00h05m09s	ΔP-H = 23°1
			epPZ	C.W.	00 05 39	Δmeas = 23°0
			eSE	G.W.	00 09 09	
			isSE	G.W.	00 09 43	
			F	G.W.	00.3	
337	August 24	S.L.	ePZ	M.S.	02 43 25	Weak
338	August 24	S.L.	ePZ	M.S.	16 08 13	General Region:
			eSN	S.	16 15 48	77° N., 5° E.
			eSR$_1$N	S.	16 19 31	H = 17h59m0
			eLN	S.	16 24 16	
			F	S.	17.0	
		Fl.	ePZ	G.W.	16 08 12	Time doubtful
			eSN	G.W.	16 15 41	
			F	G.W.	16.8	
339	August 24	Fl.	iPZ	G.W.	23 42 42	Time doubtful
			ipPZ	G.W.	23 43 02	15°5 N., 93°6 W.
			iSE	G.W.	23 46 48	H = 23h37m51s
			F	G.W.	25.3	h = 80±km.
						ΔS-P = 23°3
						Δmeas = 23°1
		C.G.	ePN	W.A.	23 42 38	ΔP-H = 21.°7
			ipPN	W.A.	23 42 57	Δmeas = 21.°7
			iSPN	W.A.	23 43 07	
			iSE	W.A.	23 46 34	
			i(sS)E	W.A.	23 46 53	
340	August 26	S.L.	ePZ	M.S.	02 06 49	Deep?
			e(pP)Z	M.S.	02 07 16	
			eN	S.	02 16 02	
			F	S.	02.5	
341	August 27	S.L.	ePZ	M.S.	18 57 44	N.S., E.W. not operating.
			eZ	M.S.	18 57 50	
342	August 30	S.L.	eSKSE	S.	01 39 16	Epicentral Region:
			eE	S.	01 39 33	17°0 S., 167°9 E.
			ePSE	S.	01 42 38	H = 01h14m12s
			eE	S.	01 43 05	ΔSKS-H = 109°5
			ePPSE	S.	01 43 42	Δmeas = 109°5
			eSR$_1$E	S.	01 48 36	
			eSR$_2$E	S.	01 53 06	
			F	S.	03.9	
		Fl.	eSKSE	G.W.	01 39 23	Time doubtful.
			ePSE	G.W.	01 42 46	
			eE	G.W.	01 49 02	
			F	G.W.	03.8	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of August, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
343	Aug. 30	S.L.	iPZ	M.S.	04 09 53	U.S.C.G.S. gives:
			iZ	M.S.	04 10 47	Region: 14°.5 S., 78° W.
			eSE	S.	04 17 48	H = $04^h00.8^m$
			esSE	S.	04 18 55	h = 100±km.
			eSR_1E	S.	04 19 30	
			$esSR_1E$	S.	04 20 41	
			F	S.	04.4	
		Fl.	iSE	G.W.	04 17 49	Time doubtful.
			esSE	G.W.	04 19 01	
			eSR_1E	G.W.	04 19 31	
			$esSR_1E$	G.W.	04 20 42	
			F	G.W.	04.4	

Minor Seismic Activity

Station	Date	From h m s	To h m s
S.L.	August 1	18 29	18 47
S.L.	6	17 00	18 18
FL.	8	02 57	03 18
S.L.	8	15 26	15 34
S.L.	11	10 00	10 15
S.L.	11	17 51	18 18
S.L.	12	10 13	10 43
S.L.	12	10 12	10 35
FL.	17	18 27	18 33
FL.	21	12 00	12 12
S.L.	25	03 59	04 15
Fl.	31	16 06	16 48
S.L.			

James B. Macelwane, Director

Harry K. Haill, Student Assistant

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month September, 1944

No.	Date	Sta	Phase	Inst	h m s	Remarks
			(No time signal at St. Louis from Sept. 1 to Sept. 18)			
344	Sept. 5	C.G.	e(P) i(S) i	W.A. W.A. W.A.	$0^h4^m57^s$ 04 43 27 04 45 35	Dominion Observatory gives: 44° 51' N., 74° 18' W.
345	Sept. 16	Fl.	eLN F	G.W. G.W.	03 00 27 03.1	U.S.C.G.S. gives: 42°5 N., 127° W. $H = 02^h44.7^m$
346	Sept. 20	S.L.	ePZ	M.S.	18 38 35	Weak
347	Sept. 21	S.L.	ePZ	M.S.	01 57 11	
348	Sept. 23	S.L.	ePZ iPZ iSN iN F	M.S. M.S. S. S. S.	12 24 28 12 24 29 12 33 42 12 33 47 16 -- --	Epicentral Region: 53°2 N., 162°0 E. $H = 12^h13^m28^s$ $h = 50^{\pm}$ km. $\Delta_{P-H} = 69°3$ $\Delta_{meas} = 69°3$
		Fl.	ePZ iPZ ipPZ iSE F	G.W. G.W. G.W. G.W. G.W.	12 24 29 12 24 33 12 24 40 12 33 36 16 -- --	$\Delta_{P-H} = 69°4$ $\Delta_{meas} = 69°2$
		C.G.	ePE eSE F	W.A. W.A. W.A.	12 24 45 12 34 05 13.3	Time doubtful $\Delta_{S-P} = 71°5$ $\Delta_{meas} = 70°9$
349	Sept. 23	S.L.	e(SKKS)N eSN eSR_1N F	S. S. S. S.	16 26 58 16 27 37 16 34 59 18.6	Region: 31° S., 177° W. $H = 16^h01^m19^s$
		Fl.	eSN F	G.W. G.W.	16 27 38 17.9	
350	Sept. 23	S.L.	ePZ eLE F	M.S. S. S.	22 43 24 23 07.4 23.4	Weak

No.	Date	Sta	Phase	Inst.	h m s	Remarks
351	Sept. 24	S.L.	iPZ	M.S.	11 06 56	Region: 53° N., 160° E. H = $10^h55^m45^s$
			eSN	S.	11 16 12	
			F	S.	11.2	
		Fl.	iPZ	G.W.	11 06 54	
			eSN	G.W.	11 16 10	
			F	G.W.	11.9	
352	Sept. 24	S.L.	iZ	M.S.	20 39 03	May not be seismic
			iZ	M.S.	20 39 28	
353	Sept. 25	S.L.	ePZ	M.S.	10 47 03	Weak
354	Sept. 25	S.L.	iPE	W.A.	11 37 37.0	Local shock 37°56' N., 89° 58'W. H = $11^h37^m22.9^s$ For details see Earthquake Notes, Vol. 16, No. 4, pp. 1-2, June, 1945
			iSE	W.A.	11 37 48.9	
		Fl.	iPE	W.A.	11 37 40.7	
			iPN	W.A.	11 37 40.9	
		C.G.	iPE	W.A.	11 37 36.4	
			iSE	W.A.	11 37 46.2	
355	Sept. 25	S.L.	iPZ	M.S.	16 26 50	Aftershock of No. 348
			eSN	S.	16 35 59	
			eN	S.	16 36 09	
			eScSE	S.	16 37 02	
			F	S.	17.5	
		Fl.	ePZ	G.W.	16 26 50	
			eSE	G.W.	16 36 04	
			eScSE	G.W.	16 37 02	
			F	G.W.	17.3	
356	Sept. 25	S.L.	ePZ	M.S.	17 24 35	
			e(SR_1)E	S.	17 38 38	
			F	S.	18.1	
357	Sept. 25	S.L.	ePZ	M.S.	21 24 17	Mexico Tacubaya gives: 16° N., 95°5 W.
			eSN	S.	21 28 43	
			F	S.	Lost	
358	Sept. 25	S.L.	iPZ	M.S.	21 34 13	Region of No. 357
			eSN	S.	21 38 36	
			F	S.	21.9	
359	Sept. 27	S.L.	ePR$_1$N	M.S.	16 43 07	Epicentral Region: 38°1 N., 73°6 E. H = $16^h25^m06^s$ Δ_{PR_1-H} = 102°2 Δ_{meas} = 102°0
			iSE	S.	16 50 37	
			iPSN	S.	16 52 12	
			F	S.	18.6	
		Fl.	ePZ	G.W.	16 39 01	Δ_{P-H} = 101°9 Δ_{meas} = 101°8
			eSKSE	G.W.	16 49 36	
			eSE	G.W.	16 50 37	
			F	G.W.	19.3	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of September, 1944

No.	Date	Sta	Phase	Inst.	h m s	Remarks
360	Sept. 29	S.L.	ePZ	M.S.	17 06 28	Weak
361	Sept. 29	S.L.	(e) Z? ePZ eZ eSE F	M.S. M.S. M.S. S. S.	19 17 39 19 17 44 19 17 47 19 25 19 20.8	Epicentral Region: 51°5 N., 170°3 W. H = 19h08m14s Δ_{P-H} = 55°2 Δ_{meas} = 55°2
362	Sept. 29	S.L.	iPZ	M.S.	22 10 49	

Minor Seismic Activity

Station	Date	From	To
		h m	h m
S.L.	September 21	07 06	07 44
S.L.	30	01 34	02 00
S.L.	30	04 36	05 45
S.L.	30	08 26	09 16

James B. Macelwane, S. J.
Director

Harry K. Haill
Student Assistant

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
363	Oct. 1	S.L.	ePZ	M.S.	08 26 06	
			e(S)E	S.	08 35 08	
			F	S.	09.3	
364	Oct. 2	S.L.	iPN	W.A.	17 27 04	14°4 N., 90°6 W.
			ipPN	W.A.	17 27 36	H = $17^h21^m59^s$
			iSE	W.A.	17 31 14	h = 150± Km
			isSE	W.A.	17 32 15	Δ_{P-H} = 24°2
			F	W.A.	17.8	Δ_{meas} = 24°1
		C.G.	ePE.	W.A.	17 26 53	Δ_{P-H} = 23°0
			eE	W.A.	17 27 56	Δ_{meas} = 22°9
			eSE	W.A.	17 30 47	
			e(sS)E	W.A.	17 31 30	
			F	W.A.	17.6	
365	Oct. 2	S.L.	ePN	W.A.	20 42 26	43°5 N., 141°7 E.
			ipP	W.A.	20 42 42	H = $20^h29^m57^s$
			eSKSE	W.A.	20 52 48	Δ_{P-H} = 85°6
			iSE	W.A.	20 53 02	Δ_{meas} = 85°7
			isSE	W.A.	20 53 32	h = 80± Km.
			ePSE	W.A.	20 53 54	
			F	W.A.	21.1	
		C.G.	eSKSE	W.A.	20 52 55	Δ_{S-H} = 87°6
			eSE	W.A.	20 53 13	Δ_{meas} = 86°9
			esSE	W.A.	20 53 46	
			F	W.A.	20.9	
366	Oct. 3	S.L.	(eE)?	W.A.	02 31 42	
			eE	W.A.	02 32 53	
367	Oct. 5	S.L.	ePZ	M.S.	15 28 28	Epicentral Region: 4.4 N., 77.8 W. H = $15^h21^m25^s$ Δ_{P-H} = 36°0 Δ_{meas} = 36°0
368	Oct. 5	S.L.	ePR$_1$Z	M.S.	17 16 15	Region:
			eSKSE	S.	17 22 22	4° S., 152° E.
			eSKKSE	S.	17 23 26	H = $16^h57.1^m$
			ePSE	S.	17 25 58	h = about 150 km.
			F.	S.	Lost	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
369	Oct. 5	S.L.	(eZ)	M.S.	17 26 30	
			ePZ	M.S.	17 26 55	
			iZ	M.S.	17 27 01	
			iE	S.	17 32 19	Part of Preceding?
			iE	S.	17 37 03	Part of Preceding?
			F	S.	Lost	
370	Oct. 5	S.L.	ipPR$_1$Z	M.S.	17 47 57	Epicentral Region:
			iSN	S.	17 54 58	21°9 S., 171°2 E.
			isSN	S.	17 55 52	H = $17^h28^m34^s$
			iSR$_1$N	S.	18 03 24	h = 150± Km
			iSR$_2$N	S.	18 06 55	ΔS-H = 110°0
			F	S.	20+	Δ_{meas} = 109°8
371	Oct. 6.	S.L.	ePZ	M.S.	02 47 09	39°9 N., 26°2 E.
			iPZ	M.S.	02 47 13	H = $02^h34^m50^s$
			iZ	M.S.	02 47 17	ΔP-H = 82°3
			iSN	S.	02 57 28	Δ_{meas} = 82°4
			F	S.	05.6	
		Fl.	ePZ	G.W.	02 47 11	ΔP-H = 82°6
			eSN	G.W.	02 57 37	Δ_{meas} = 82°5
			F	G.W.	05.4	
372	Oct. 6	S.L.	eZ	M.S.	09 05 51	
			eE	S.	09 12 47	
			F	S.	10.3	
373	Oct. 7	S.L.	e(PR$_1$)E	M.S.	19 10 44	New Hebrides
			eE	S.	19 11 16	Δ = about 109°
			e(PR$_2$)E	S.	19 12 35	
			eE	S.	19 13 48	
			eN	S.	19 14 11	
			e(SKS)E	S.	19 16 17	
			e(SKKS)E	S.	19 17 29	
			eSE	S.	19 18 09	
			e (PS)E	S.	19 20 03	
			F	S.	21.6	
374	Oct. 7	S.L.	ePZ	M.S.	21 46 48	38°0 N., 25°9 E.
			iPZ	M.S.	21 46 52	H = $21^h34^m24^s$
			eE	S.	21 55 31	ΔP-H = 83°2
			F	S.	22.5	Δ_{meas} = 83°0
375	Oct. 9	S.L.	ePZ	M.S.	02 20 16	Epicentral Region:
			F	S.	Lost	9°1 S., 75°8 W.
						H = $02^h11^m25^s$
						ΔP-H = 49°8
						Δ_{meas} = 49°8
376	Oct. 9	S.L.	iPZ	M.S.	02 33 12	
			eZ	M.S.	02 33 21	
			F	S.	03.1	

No.	Date	Sta.	Phase	Inst	h m s	Remarks
377	Oct. 9	S.L.	eLN	S.	21 32.7	Southwest Pacific
			F	S.	22.3	
378	Oct. 11	S.L.	iPZ	M.S.	09 58 20	Epicentral Region:
			i(pF)Z	M.S.	09 58 33	14°8 S., 173°7 W.
			i	S.	10 08 54	H = 09h45m16s
			i	S.	10 09 16	h = 80± Km
						Δ_{P-H} = 92°4
						Δ_{meas} = 94°0
						Saint Louis readings from J.S.A. Preliminary Bulletin #40, 1944
		Fl.	iPZ	G.W.	09 58 21	Δ_{P-H} = 92°7
			iSKSE	G.W.	10 08 52	Δ_{meas} = 93°9
			isSKSE	G.W.	10 09 18	
			F	G.W.	11.5	
379	Oct. 13	S.L.	eE	S.	11 45 43	Epicentral Region:
			eSN	S.	11 46 44	33°9 S., 178°4 W.
			ePSE	S.	11 48 24	H = $11^h20^m10^s$
			e(SR_2)E	S.	11 58 02	Δ_{PS-H} = 109°0
			F	S.	13.5	Δ_{meas} = 108°9
		Fl.	e(PR_1)Z	G.W.	11 39 10	Δ_{SKKS-H} = 108°7
			eSKKSE	G.W.	11 46 09	Δ_{meas} = 108°9
			eSN	G.W.	11 46 45	
			F	G.W.	13.2	
380	Oct. 14	S.L.	eP'Z	M.S.	02 37 00	Region: 7° S., 151° E.
			ePR_1E	S.	02 38 04	H = $02^h18.4^m$
			i(PS)E	S.	02 48 02	h = about 50 Km
			F	S.	05.0	
		Fl.	ePR_1Z	G.W.	02 38 09	
			eSKSE	G.W.	02 43 51	
			e(PS)E	G.W.	02 48 12	
			F	G.W.	04.9	
381	Oct. 14	S.L.	eSKSE	S.	09 32 23	Approximately: 11° S, 173°E.
			ePSE	S.	09 34 56	H = $09^h07.8^m$
			eSR_1E	S.	09 40 29	
			eSR_2E	S.	09 44 44	
			F	S.	10.7	
382	Oct. 14	S.L.	iPZ	M.S.	15 27 24	Northern Japan
			eZ	M.S.	15 29 08	Deep
			eSE	S.	15 37 17	No surface waves
			eE	S.	15 39 04	
			F	S.	15.7	
		Fl.	eSE	G.W.	15 37 16	
			eE	G.W.	15 39 19	
			F	G.W.	15.7	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
383	Oct.14	S.L.	eSKSE	S.	16 45 27	Southwest Pacific
			eSKKSN	S.	16 46 32	Δ = about 110°
			eN	S.	16 47 57	
			eE	S.	16 53 15	
			F	S.	17.7+	
		Fl.	eSKSE	G.W.	16 45 25	
			eSKKSE	G.W.	16 46 32	
			F	G.W.	18.0	
384	Oct. 14	Fl.	e(SKS)E	G.W.	19 43 18	Southwest Pacific
			e(SKKS)E	G.W.	19 44 36	
			F	G.W.	19.8	
385	Oct. 14	S.L.	eP'Z	M.S.	20 35 19	Southeast of Mindanao
			ePR$_1$Z	M.S.	20 37 15	Δ = about 128°
			e(SKP)N	S.	20 38 41	
			ePSN	S.	20 47 31	
			ePPSN	S.	20 48 56	
			e(SR$_1$)N	S.	20 54 59	
			F	S.	22.6	
		Fl.	ePR$_1$Z	G.W.	20 37 12	
			e(SKP)E	G.W.	20 38 42	
			e(SKKS)E	G.W.	20 44 23	
			eE	G.W.	20 46 10	
			F	G.W.	22+	
386	Oct. 15	S.L.	ePZ	M.S.	04 12 58	Epicentral Region:
			eZ	M.S.	04 13 09	10°7 S., 78°4 W.
			eSE	S.	04 20 07	H = $04^h04^m05^s$
			ePSE	S.	04 20 41	ΔP-H = 50°0
			eE	S.	04 22 41	Δ_{meas} = 50°4
			e(SR$_1$)E	S.	04 23 40	
			F	S.	04.9	
		Fl.	eE	G.W.	04 19 36	Δ_{meas} = 50.6
			e(S)E	G.W.	04 20 05	
			F	G.W.	04.5	
387	Oct. 15	S.L.	e(PS)E	S.	08 28 40	Southwest Pacific?
			eLE	S.	08 49 07	
			F	S.	09.5	
388	Oct. 15	S.L.	eLE	S.	20 08 13	
			F	S.	20.2	
389	Oct. 17	Fl.	ePR$_1$Z	G.W.	18 56 06	Epicentral Region:
			eSKSN	G.W.	19 02 08	30°7 N., 83°2 E.
			eSKKSN	G.W.	19 03 08	H = $18^h36^m57^s$
			iSPZ	G.W.	19 05 21	Δ_{PS-H} = 110°9
			iPSN	G.W.	19 05 31	Δ_{meas} = 110°8
			F	G.W.	21.3	
390	Oct. 19	S.L.	eLE	S.	04 58 31	
			F	S.	05.1	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
391	Oct. 19	S.L.	eLE	S.	16 21 22	
			F	S.	16.6	
392	Oct. 20	S.L.	iPZ	M.S.	23 14 42	
		Fl.	ePE	W.A.	23 14 40	
			F	W.A.	23 16.6	
393	Oct. 21	S.L.	iPZ	M.S.	10 52 22	
394	Oct. 21	S.L.	ePZ	M.S.	20 24 05	Off the coast of Guatemala.
			eSN	S.	20 28 26	
			eE	S.	20 28 52	
			eME	S.	20 36 02	
			F	S.	21.0	
395	Oct. 23	S.L.	ePZ	M.S.	23 47 30	0°.7 N., 79°.6 W.
			iPZ	M.S.	23 47 31	H = $23^h40^m07^s$
			ePR$_1$Z	M.S.	23 49 07	Δ_{P-H} = 38°.6
			iZ	M.S.	23 49 19	Δ_{meas} = 39°.0
			iSE	S.	23 53 45	
			iSR$_1$E	S.	23 56 08	
			F	S.	03.6	
		Fl.	ePZ	G.W.	23 47 33	Δ_{P-H} = 38°.8
			iPZ	G.W.	23 47 36	Δ_{meas} = 39°.2
			iPR$_1$Z	G.W.	23 49 10	
			i(ScP)E	G.W.	23 53 17	
			iSE	G.W.	23 53 31	
			F	G.W.	04.4	
396	Oct. 26	S.L.	ePZ	M.S.	01 53 20	
397	Oct. 29	S.L.	iSKSN	S.	00 36 44	Same Region as No. 389, October 17.
			eSKKSN	S.	00 37 42	
			eSE	S.	00 38 13	
			eN	S.	00 39 50	
			iPSN	S.	00 40 07	
			eE	S.	00 40 29	
			ePPSN	S.	00 41 07	
			e(PKKP)Z	S.	00 41 14	
			eN	S.	00 41 28	
			ePPSN	S.	00 41 55	
			F	S.	02.7	
		Fl.	e(PR$_1$)Z	G.W.	00 30 39	H = $00^h11^m15^s$
			eN	G.W.	00 36 21	
			eSKSE	G.W.	00 36 44	
			eSKKSE	G.W.	00 37 38	
			e(S)E	G.W.	00 38 15	
			ePSN	G.W.	00 40 05	
			F	G.W.	02 5	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of October, 1944

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
398	Oct. 30	S.L.	ePZ	M.S.	05 42 00	10°6 N., 43°8 W.
			ipPZ	M.S.	05 42 12	$H = 05^h33^m12^s$
			eSE	S.	05 49 16	$h = 50^{\pm}$ km
			eSR_1E	S.	05 52 56	$\Delta_{P-H} = 49°9$
			F	S.	06.4	$\Delta_{meas} = 50°0$
		Fl.	eSE	G.W.	05 49 19	$\Delta_{S-H} = 50°4$
			eLE	G.W.	05 56.5	$\Delta_{meas} = 50°2$
			F	G.W.	06.2	

Minor Seismic Activity

Station	Date	From h m	To h m
S.L.	October 14	06 36	06 57
S.L.	14	07 44	08 13
S.L.	14	22	24.5
Fl.	15	09 00	10 53
S.L.	15	09 45	11 35
S.L.	17	04 39	05 44
S.L.	21	22.0	22.5

James B. Macelwane, S. J.
Director

Harry K. Haill
Student Assistant

SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of November, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
399	Nov. 1	S.L.	iP'Z	M.S.	12 20 51	Region: 4° S., 102° E.
			iZ	M.S.	12 21 03	H = 12h01m30s
			iZ	M.S.	12 21 12	h = 100±km.
			ipP'Z	M.S.	12 21 18	
			iZ	M.S.	12 21 27	
			eSR$_1$E	S.	12 42 47	
			ePPSSE	S.	12 44 01	
			eLE	S.	13 05.5	
			F	S.	14.1	
400	Nov. 3	S.L.	eN	S.	06 39 49	
			eLN	S.	07 03 48	
			F	S.	07.9	
401	Nov. 5	S.L.	e(P)Z	M.S.	06 12 06	Weak.
402	Nov. 6	S.L.	(eZ)	M.S.	06 09 02	Japan?
			eSN	S.	06 13 48	
			eSR$_1$E	S.	06 15 50	
			eLN	S.	06 26 58	
			F	S.	07.5	
		Fl.	eSR$_1$E	G.W.	06 15 49	
			F	G.W.	07.4	
403	Nov. 6	S.L.	eZ	M.S.	17 35 03	Obscured by microseisms.
			(eE)	S.	17 43 16	
404	Nov. 7	S.L.	iPZ	M.S.	05 42 03	Deep?
			iZ	M.S.	05 42 05	No surface waves.
			iZ	M.S.	05 42 11	General Region:
			e(S)Z	M.S.	05 46 29	14° N., 89° W.
			F	M.S.	05 47.0	H = 05h36.7m
		C.G.	ePN	W.A.	05 41 54	Time doubtful.
405	Nov. 8	S.L.	ePZ	M.S.	04 14 26	
406	Nov. 8	S.L.	e(P)Z	M.S.	06 35 13	
			eLE	S.	06 51 12	
			F	S.	07.1	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of November, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
407	Nov. 10	S.L.	epPZ	M.S.	13 25 20	Epicentral Region:
			iSE	S.	13 31 56	54°2 N., 156°7 W.
			i(PS)E	S.	13 32 08	h = 50±km.
			isSN	S.	13 32 32	H = $13^h16^m46^s$
			i(pPS)E	S.	13 32 41	ΔpP-H = 46°5
			eSR$_1$N	S.	13 35 30	Δmeas = 46°7
			F	S.	Lost	
408	Nov. 13	S.L.	ePnE	W.A.	11 50(20)	Very weak initial phase.
			iS*N	W.A.	11 51 27	Epicentral Region:
			F	W.A.	11 56.7	39°7 N., 84°2 W.
						H = $11^h49^m09^s$
						ΔS*-H = 4°6
						Δmeas = 4°7
		Fl.	ePnE	W.A.	11 50 19	ΔPn-H = 4°6
			eSnN	W.A.	11 51 12	ΔSn-H = 4°9
			iS*E	W.A.	11 51 30	Δmeas = 4°8
			F	W.A.	11 57.1	
		C.G.	eS*N	W.A.	11 51 32	ΔS*-H = 4°8
			eN	W.A.	11 51 35	Δmeas = 4°9
			F	W.A.	11 53.2	Felt at Anna and Botkins, Ohio.
409	Nov. 13	S.L.	eE	S.	19 47 14	Epicentral Region:
			eSN	S.	19 47 53	24°9 S., 177°9 E.
						H = $19^h23^m30^s$
						h = 600±km.
						ΔS-H = 106°1
						Δmeas = 106°5
410	Nov. 14	S.L.	iSN	S.	00 01 39	
			F	S.	00.6	
		Fl.	eSN	G.W.	00 01 38	
			F	G.W.	00.4	
411	Nov. 14	S.L.	(ePZ)	M.S.	00 42 04	
			eSE	S.	00 51 25	
			eSR$_1$E	S.	00 56 04	
			F	S.	02.1	
		Fl.	eN	G.W.	00 47 49	
			eSE	G.W.	00 51 26	
			F	G.W.	02.2	
412	Nov. 14	S.L.	ePZ	M.S.	23 26 50	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
413	Nov. 14	S.L.	eSKSN	S.	23 42 05	Region:
			esSKSN	S.	23 42 44	41° N., 66°E.
			eSKKSE	S.	23 43 15	H = $23^h18.6^m$
			e(sSKKS)E	S.	23 43 38	h = about 100 km.
			iPSN	S.	23 44 45	
			eN	S.	23 46 45	
			F	S.	24.4	
414	Nov. 15	S.L.	ePZ	M.S.	16 06 58	South of Easter Island?
			e(S)E	S.	16 16 22	
			F	S.	16.6	
415	Nov. 15	S.L.	eP'Z	M.S.	21 06 01	Epicentral Region:
			iPR_1Z	M.S.	21 07 31	4° N., 128° E.
			eSKSE	S.	21 12 56	H = $20^h47^m04^s$
			ePSE	S.	21 18 06	ΔPR_1-H = 125°2
			ePPSE	S.	21 19 26	Δmeas = 125°0
			F	S.	24.3	
		Fl.	eP'Z	G.W.	21 05 59	ΔPR_1-H = 125°0
			iPR_1Z	G.W.	21 07 50	Δmeas = 124°8
			eSKSE	G.W.	21 12 55	
			e(PS)E	G.W.	21 18 14	
			F	G.W.	24.2	
416	Nov. 15	S.L.	iPZ	M.S.	22 34 14	Deep?
			i(pP)Z	M.S.	22 34 48	
			F	S.	Lost	
417	Nov. 16	S.L.	ePR_1E	S.	12 29 50	12°1 S., 166°1 E.
			iSKSE	S.	12 36 03	H = $12^h10^m59^s$
			eSE	S.	12 37 44	ΔPS-H = 108°3
			iE	S.	12 38 52	Δmeas = 108°0
			iPSE	S.	12 39 06	
			F	S.	15.4	
		Fl.	iSKSE	G.W.	12 36 02	ΔPS-H = 108°5
			iPSE	G.W.	12 39 08	Δmeas = 107°9
			F	G.W.	15.3	
418	Nov. 18	S.L.	ePZ	M.S.	08 04 33	29°0 S., 112°2 W.
			iSE	S.	08 13 46	H = $07^h53^m20^s$
			F	S.	09.1	ΔP-H = 70°8
						Δmeas = 70°6
419	Nov. 19	S.L.	eLE	S.	04 33 48	
			F	S.	05.0	
420	Nov. 19	S.L.	eLE	S.	07 39.4	
			F	S.	08.2	
421	Nov. 19	S.L.	ePZ	M.S.	19 23 12	
			eZ	M.S.	19 23 19	
			eZ	M.S.	19 23 37	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
422	Nov. 20	S.L.	ePZ	M.S.	03 34 36	
423	Nov. 20	S.L.	e(SKKS)E	S.	05 07 27	Possibly the same region as # 417, Nov. 16, with $H = 04^h41.3^m$
			eLE	S.	05 35.0	
			F	S.	06.3	
424	Nov. 20	S.L.	iPZ	M.S.	21 41 41	$50^\circ.9$ N., $155^\circ.0$ E.
			ipPZ	M.S.	21 42 09	$H = 21^h30^m23^s$
			iSE	S.	21 51 00	$h = 150 \pm$km.
			F	S.	21 52.0	$\Delta_{P-H} = 74^\circ.2$
						$\Delta_{meas} = 74^\circ.1$
425	Nov. 21	S.L.	ePZ	M.S.	10 16 03	Region: 56°S., 70°W.
			iSKSN	S.	10 26 38	$H = 10^h02.5^m$
			iPSN	S.	10 28 53	Possibly deeper than normal.
			eSR_1E	S.	10 34 04	
			F	S.	11.5	
		Fl.	eSKSN	G.W.	10 26 43	
			F	G.W.	11.5	
426	Nov. 21	S.L.	eZ	M.S.	15 12 54	Very weak.
			F	M.S.	15 14.0	
427	Nov. 23	S.L.	e(P)Z	M.S.	05 55 16	Weak.
			F	M.S.	05 56.7	
428	Nov. 23	S.L.	e(P)Z	M.S.	11 02 40	Very Weak.
			F	M.S.	11 03.7	
429	Nov. 24	S.L.	ePZ	M.S.	05 03 18	$19^\circ.0$ S., $169^\circ.1$ E.
			eE	S.	05 06 38	$H = 04^h49^m00^s$
			iPR_1Z	M.S.	05 07 48	$h = 100 \pm$km.
			iE	S.	05 08 47	$\Delta_{PR_1-H} = 109^\circ.7$
			iSKSE	S.	05 13 40	$\Delta_{meas} = 109^\circ.9$
			isSKSE	S.	05 14 37	
			iSKKSE	S.	05 14 57	
			iSE	S.	05 15 54	
			iPSE	S.	05 17 16	
			iPPSE	S.	05 18 14	
			iE	S.	05 19 39	
			iSR_1E	S.	05 23 15	
			$isSR_1E$	S.	05 24 21	
			iSR_2E	S.	05 27 26	
			F	S.	08.0	
		Fl.	ePZ	G.W.	05 03 15	$\Delta_{PR_1-H} = 109^\circ.8$
			iPR_1Z	G.W.	05 07 49	$\Delta_{meas} = 109^\circ.8$
			iZ	G.W.	05 08 49	
			iSKSE	G.W.	05 13 36	
			isSKSE	G.W.	05 14 36	
			iSKKSE	G.W.	05 15 00	
			iSE	G.W.	05 15 52	
			iPSE	G.W.	05 17 09	

(Continued on next page)

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of November, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
429 (Continued)	Nov. 24	Fl.	iPPSE	G.W.	05 18 08	
			iE	G.W.	05 22 35	
			iSR_1E	G.W.	05 23 17	
			$isSR_1E$	G.W.	05 24 21	
			iE	G.W.	05 25 03	
			iE	G.W.	05 26 05	
			iSR_2E	G.W.	05 27 24	
			F	G.W.	07.6	
430	Nov. 24	S.L.	eLE	S.	19 13 13	
			F	S.	19.4	
431	Nov. 26	S.L.	e(P)Z	M.S.	00 51 09	
			eLE	S.	01 22 --	
			F	S.	01.9	
432	Nov. 26	S.L.	eSR_1E	S.	08 47 04	Region: 19° S., 173° W.
			eME	S.	09 00.5	$H = 08^h15.5^m$
			F	S.	10.3	
433	Nov. 27	S.L.	ePZ	M.S.	16 38 06	16°0 N., 97°7 W.
			iZ	M.S.	16 38 16	$H = 16^h32^m54^s$
			e(S)N	S.	16 42 31	$\Delta P-H = 23°7$
			eLN	S.	16 47.4	$\Delta meas = 23°7$
			F	S.	17.2	
		Fl.	ePZ	G.W.	16 38 07	$\Delta P-H = 23°8$
						$\Delta meas = 23°7$
434	Nov. 28	S.L.	e(P)Z	M.S.	16 15 12	
			iLN	S.	16 21 52	
			F	S.	16.6	
435	Nov. 28	S.L.	ePZ	M.S.	19 06 56	Kurile Islands.
			eSE	S.	19 17 14	
			F	S.	20.1	
436	Nov. 29	S.L.	e(P)Z	M.S.	00 49 01	Indefinite.
			e(S)E	S.	00 56 44	Peru?
			F	S.	01.3	
437	Nov. 29	S.L.	$e(PR_1)E$	S.	19 09 58	Aftershock of # 429,
			eE	S.	19 11 07	November 24, at 04^h.
			eSKSE	S.	19 16 02	$H = 18^h51^m23^s$
			e(sSKS)E	S.	19 17 17	h = 150±km.
			eSN	S.	19 17 49	
			iE	S.	19 18 15	
			i(sS)N	S.	19 18 59	
			eE	S.	19 19 48	
			i(PPS)NE	S.	19 20 35	
			iE	S.	19 26 45	
			$e(SR_2)N$	S.	19 30 45	
			F	S.	21.4	

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
Seismological Bulletin for the month of November, 1944.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
437 (Con't.)	Nov. 29	Fl.	e(SKKS)E	G.W.	19 17 23	
			iE	G.W.	19 18 13	
			eE	G.W.	19 19 47	
			i(PPS)E	G.W.	19 20 33	
			eE	G.W.	19 26 43	
			iE	G.W.	19 31 17	
			F	G.W.	21.1	
438	Nov. 30	S.L.	eSKSN	S.	02 09 54	Epicentral Region:
			eE	S.	02 10 36	24°9 S., 178°8 W.
			iSN	S.	02 11 08	H = $01^h45^m50^s$
			e(PS)N	S.	02 12 30	h = 200±km.
			e(pPS)E	S.	02 14 08	Δ_{S-H} = 104°1
			eE	S.	02 17 11	Δ_{meas} = 104°1
			F	S.	03.3	
		Fl.	eSKSE	G.W.	02 09 50	Δ_{S-H} = 104°2
			eE	G.W.	02 10 34	Δ_{meas} = 104°0
			eSE	G.W.	02 11 12	
			F	G.W.	03.2	

Minor Seismic Activity

Station	Date	From h m	To h m
S.L.	November 7	16 36	17 16
S.L.	17	22 --	24 --
S.L.	19	06 22	06 42

James B. Macelwane, S. J.
Director

Harry K. Haill
Student Assistant

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY
3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of December, 1944

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
439	Dec. 1	S.L.	iSKSE	S.	04 23 02	Epicentral Region:
			iE+	S.	04 23 45	21°2 S., 179°1 W.
			iSN	S.	04 24 18	H = $04^h00^m27^s$
			esSN	S.	04 28 06	Δ_{S-H} = 102°2
			eSR_1N	S.	04 31 27	Δ_{meas} = 102°2
			F	S.	05.3	h = 600 Km.
		Fl.	eSKSE	G.W.	04 23 00	Δ_{S-H} = 102°2
			eE	G.W.	04 23 45	Δ_{meas} = 102°1
			eSN	G.W.	04 24 18	
			eSR_1N	G.W.	04 31 26	
			F	G.W.	05.1	
440	Dec. 2	S.L.	ePZ	M.S.	03 02 44	Region: 2°5 N., 84°5 W.
			eZ	M.S.	03 02 50	H = $02^h55^m37^s$
			eSN	S.	03 08 42	Δ_{P-H} = 36°5
			F	S.	03.4	Δ_{meas} = 36°5
441	Dec. 4	S.L.	e(P)Z	M.S.	03 09 58	
442	Dec. 4	S.L.	e(P)Z	M.S.	11 34 00	
443	Dec. 4	S.L.	eZ	M.S.	20 52 22	Region: 16° N, 145° E.
			ePR_1Z	M.S.	20 53 00	H = 20 34 36
			$epPR_1Z$	M.S.	20 53 13	h = 50± km
			iSKSE	S.	20 59 14	Δ_{PR_1-H} = 105°6
			eE	S.	20 59 25	Δ_{meas} = 105°3
			eS_E	S.	21 00 42	
			eSN	S.	21 00 48	
			e(PS)E	S.	21 02 10	
			eN	S.	21 07 51	
			iSR_1E	S.	21 08 05	
			eN	S.	21 08 10	
			F	S.	22.4	
		Fl.	$e(pPR_1)Z$	G.W.	20 53 18	Δ_{SKS-H} = 105°9
			iSKSE	G.W.	20 59 15	Δ_{meas} = 105°1
			eSR_1E	G.W.	21 08 04	
			F	G.W.	22.2	
444	Dec. 5.	S.L.	iPZ	M.S.	01 02 23	Epicentral Region:
			epPZ	M.S.	01 02 55	32°9 S., 66°8 W.
			esPZ	M.S.	01 03 05	H = $00^h51^m00^s$
			eSN	S.	01 11 37	h = 150± Km
			eN	S.	01 12 14	Δ_{P-H} = 75°0
			F	S.	01.3	Δ_{meas} = 75°0

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
445	Dec. 5	S.L.	ePZ	M.S.	09 33 58	
446	Dec. 5	S.L.	ePZ	M.S.	14 46 11	Region 25° N., 110°W.
			iPZ	M.S.	14 46 14	H = $14^h41^m22^s$
			iZ	M.S.	14 46 19	
			eSN	S.	14 50 07	
			eLN	S.	14 52 26	
			iLN	S.	14 52 51	
			F	S.	Lost	
447	Dec. 5	S.L.	ePZ	M.S.	17 14 10	Region 25°N., 110°W.
			iZ	M.S.	17 14 19	H = $17^h09^m20^s$
			eSN	S.	17 18 05	
			eLN	S.	17 20 28	
			iLN	S.	17 20 56	
			F	S.	17.8	
448	Dec. 5	S.L.	e(P)Z	M.S.	17 57 45	Indefinite
			eLN	S.	18 04.7	Region of No. 447?
			F	S.	18.2	
449	Dec. 7	S.L.	ePZ	M.S.	04 49 09	Weak initial phase.
			iZ	M.S.	04 49 38	Region of 33°N., 137°E.
			iPR_1Z	M.S.	04 53 17	H = 04 35 46
			iSKSN	S.	04 59 36	Destructive along
			iSE	S.	05 00 20	Pacific coast of Lower
			F	S.	10.3	Honshu, Japan
		Fl.	ePZ	G.W.	04 49 09	
			iZ	G.W.	04 49 25	
			iPR_1E	G.W.	04 53 19	
			iSE	G.W.	05 00 21	
			F	G.W.	10.0	
		C.G.	e(P)E	W.A.	04 49 48	
			eSN	W.A.	05 00 53	
			F	W.A.	06.9	
450	Dec. 7	S.L.	ePZ	M.S.	06 39 00	Aftershock of No. 449
			ePR_1Z	M.S.	06 43 06	
451	Dec. 7	S.L.	e(P)Z	M.S.	22 55 12	
			eE	S.	23 12.8	
			F	S.	23.3	
452	Dec. 8	S.L.	eN	S.	01 35 38	Epicentral Region:
			eSN	S.	01 35 56	20°0 S., 175°5 W.
			e(L)N	S.	01 51 --	H = $01^h10^m40^s$
			F	S.	02.7	$\Delta S-H = 98°9$
						$\Delta_{meas} = 98°7$
453	Dec. 8	S.L.	e(S)E	S.	07 43 28	Epicentral Region:
			eE	S.	07 45 45	21°7 S., 169°9 E.
			eE	S.	07 47 19	H = $07^h17^m14^s$
			eE	S.	07 49 58	h = 100± Km
			F	S.	09.3	$\Delta_{meas} = 110°9$

No.	Date	Sta.	Phase	Inst.	h m s	Remakrs
454	Dec. 8	S.L.	ePSE	S.	13 27 41	Region of No. 453
			eE	S.	13 28 07	h = 100± Km
			eSR$_1$E	S.	13 34.3	
			F	S.	Lost	
455	Dec. 8	S.L.	iPZ	M.S.	18 34 20	Epicentral Region:
			eSE	S.	18 45 33	33°9 N., 141.2 E.
			eSR$_1$E	S.	18 51 48	H = 18^{h}21^{m}06^s
			eIE	S.	19 02.5	ΔP-H = 93°3
			F	S.	20.1	Δ_{meas} = 93°3
456	Dec. 10	S.L.	iPKP$_1$Z	M.S.	05 31 23	Approximately:
			iZ	M.S.	05 31 32	24° S., 65° E.
			iPKP$_2$Z	M.S.	05 31 44	H = 05^{h}11.5^m
			iZ	M.S.	05 31 47	Possibly deeper than
			iPR$_1$Z	M.S.	05 35 21	normal.
			iZ	M.S.	05 35 30	
			eSKKSN	S.	05 42 04	
			eN	S.	05 45 19	
			iPSKSN	S.	05 45 51	
			eE	S.	05 46 34	
			iE	S.	05 48 39	
			iE	S.	05 50 35	
			iSR$_1$E	S.	05 54 31	
			eE	S.	05 59 46	
			F	S.	07.8	
		Fl.	iPKP$_1$Z	G.W.	05 31 24	
			iPKP$_2$Z	G.W.	05 31 50	
			iPR$_1$Z	G.W.	05 35 26	
			eE	G.W.	05 39 39	
			iSKKSE	G.W.	05 42 11	
			eE	G.W.	05 45 13	
			iE	G.W.	05 48 46	
			eE	G.W.	05 50 05	
			iE	G.W.	05 50 36	
			eSR$_1$E	G.W.	05 54 32	
			F	G.W.	07.5	
457	Dec. 10	S.L.	e(PR$_1$)Z	M.S.	09 45 37	No surface waves
						Pasadena gives Region of Japan.
						Depth about 600 Km?
458	Dec. 10	S.L.	ePR$_1$Z	M.S.	16 44 01	18°3 S., 167°8 E.
			eSKSE	S.	16 49 57	H = 16^{h}25^{m}00^s
			iSKKSE	S.	16 51 03	ΔPR$_1$-H = 110°3
			iE	S.	16 51 23	Δ_{meas} = 110°4
			iPSE	S.	16 53 26	
			iSR$_1$E	S.	16 59 01	
			F	S.	20 --	
		Fl.	ePR$_1$Z	G.W.	16 44 04	ΔPR$_1$-H = 110°7
			iZ	G.W.	16 44 18	Δ_{meas} = 110°5
			iSKSE	G.W.	16 50 09	
			iSKKSE	G.W.	16 51 04	
			iPSE	G.W.	16 53 42	
			F	G.W.	20 --	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
459	Dec. 10	S.L.	iPZ	M.S.	19 42 52	
			e(L)E	S.	20 26 --	
			F	S.	21.3	
		Fl.	ePZ	G.W.	19 42 52	
460	Dec. 12	S.L.	e(P)E	S.	01 26 22	
461	Dec. 12	S.L.	iPE	S.	04 27 20	52°0 N., 176°7 W.
			iE	S.	04 27 30	$H = 04^h17^m24^s$
			iE	S.	04 27 51	Possibly slightly
			iE	S.	04 28 56	deeper than normal.
			eN	S.	04 30 20	$\Delta_{P-H} = 59°0$
			iSE	S.	04 35 32	$\Delta_{meas} = 58°9$
			iE	S.	04 35 47	
			eN	S.	04 37 02	
			iN	S.	04 37 08	
			iN	S.	04 37 25	
			iSR_1N	S.	04 39.4	
			F	S.	07.6	
		Fl.	iPZ	G.W.	04 27 18	$\Delta_{P-H} = 58°8$
			iZ	G.W.	04 27 27	$\Delta_{meas} = 58.8$
			iSE	G.W.	04 35 28	
			F	G.W.	07.6	
462	Dec. 12	S.L.	eSKSE	S.	10 49 10	Japan
			e(S)E	S.	10 49 52	Δ about 92°
			ePPSN	S.	10 51 28	
			iE	S.	10 52 52	
			eSR_1N	S.	10 56 20	
			e(L)E	S.	11 07.9	
			F	S.	12.3	
		Fl.	ePZ	G.W.	10 38 40	
			e(S)E	G.W.	10 49 58	
			ePPSN	G.W.	10 51 38	
			eE	G.W.	10 53 37	
			F	G.W.	12.2	
463	Dec. 15	S.L.	ePZ	M.S.	04 59 11	Tacubaya gives: 18° 39'N., 104° 33'W.
464	Dec. 15	S.L.	e(P)Z	M.S.	05 21 26	Region of #463
465	Dec. 15	S.L.	(eP)Z	M.S.	08 18 45	
466	Dec. 15	S.L.	ePZ	M.S.	14 01 17	
			iZ	M.S.	14 01 22	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
467	Dec. 17	S.L.	iPZ	M.S.	07 41 42	Region: 14° N., 99° W.
			eE	S.	07 43 41	H = $07^h36.3^m$
			eSN	S.	07 46 08	
			eLN	S.	07 51.5	
			eME	S.	07 52 24	
			F	S.	08.6	
468	Dec. 19	S.L.	eN	S.	14 43 57	Japan?
			eLE	S.	14 47 47	S phases lost changing records
			iME	S.	14 55 05	
			F	S.	16.3	
		Fl.	eZ	G.W.	14 31 42	
			eE	G.W.	14 41 59	
			iME	G.W.	14 55 05	
			F	G.W.	16.0	
469	Dec. 20	S.L.	eLE	S.	15 10,8	
			F	S.	15.7	
		Fl.	eLE	G.W.	15 11.6	
			F	G.W.	15.8	
470	Dec. 20	S.L.	eSN	S.	21 11 09	28°3 S., 178°0 W.
			ePSE	S.	21 12 50	H = $20^h45^m05^s$
			eSR E	S.	21 18 33	Δ_{PS-H} = 106°2
			eE	S.	21 21.5	Δ_{meas} = 105°7
			eLE	S.	21 35.4	Reported felt in Kermedec Islands
			F	S.	22.3	
		Fl.	eE	G.W.	21 22.1	
			eLE	G.W.	21 35.3	
			F	G.W.	22.4	
471	Dec. 21	S.L.	e(P)Z	M.S.	05 24 57	Pasadena gives: Northern California
			e(S)E	S.	05 29 35	
			eLN	S.	05 34 07	
			iMN	S.	05 35 33	
			F	S.	05.7	
		Fl.	eLE	G.W.	05 35 13	
			F	G.W.	05.7	
472	Dec. 21	S.L.	eSKSE	S.	20 38 33	Epicentral Region:
			esSKSE	S.	20 39 20	28°5 S., 179°6 W.
			ePSE	S.	20 41 34	H = 20 14 10
			eE	S.	20 41 51	h = 100± Km
			ePPSE	S.	20 42 41	Δ_{PS-H} = 106°4
			eSR$_1$N	S.	20 47 13	Δ_{meas} = 106°8
			eN	S.	20 47 31	
			eSR$_2$E	S.	20 51.3	Reported felt in Keomadec Islands
			eE	S.		
			eLN	S.	21 00.4	
			F	S.	22.6	

Continued on next page

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
472 (Con't.P	Dec. 21	Fl.	eSKSE	G.W.	20 38 36	ΔSKS-H = 105°8
			esSKSE	G.W.	20 39 19	Δmeas = 106°7
			e(SR_1)E	G.W.	20 46 53	
			eSR_2E	G.W.	20 51.5	
			eLE	G.W.	21 01.0	
			F	G.W.	22.2	
473	Dec. 21	S.L.	eSKSE	S.	22 52 29	Region of No. 472
			esSKSE	S.	22 53 13	h = 100± Km
			iSN	S.	22 53 54	
			esSN	S.	22 54 40	
			ePSE	S.	22 55 25	
			ePPSE	S.	22 56 37	
			eN	S.	23 00 03	
			eN	S.	23 00 14	
			eSR_2E	S.	23 05 25	
			e(L)E	S.	23 12.4	
			F	S.	24.4	
		Fl.	eSKSE	G.W.	22 52 30	
			ePPSE	G.W.	22 56 37	
			eLE	G.W.	23 14 --	
			F	G.W.	24.2	
474	Dec. 22	S.L.	eSKSN	S.	06 01 37	Region of No. 472
			eSE	S.	06 03 16	
			eE	S.	06 08 51	
			eE	S.	06 13 07	
			eLE	S.	06 25.5	
			F	S.	07.3	
		Fl.	eLE	G.W.	06 26 --	
			F	G.W.	07.1	
475	Dec. 22	S.L.	ePN	W.A.	22 42 30	Region of:
			eSE	W.A.	22 51 14	23°1 S., 71°2 W.
						H = $22^h32^m10^s$
						h = 150± Km
						Sprengnether Instruments not operating
476	Dec. 23	S.L.	ePnN	W.A.	07 24 20.5	Reported felt in Caruthersvill, Missouri
			eSnE	W.A.	07 24 49.7	ΔSn-Pn = 162 miles
			iSnN	W.A.	07 24 50.7	
			iLE	W.A.	07 24 52.7	
477	Dec. 24	S.L.	eE	S.	15 14 18	
			eN	S.	15 16 40	
			eN	S.	15 17 46	
			eE	S.	15 34 32	
			e(L)E	S.	15 38 05	
			F	S.	16.4	

No.	Date	Sta	Phase	Inst.	h m s	Remarks
478	Dec. 27	Fl.	iPR$_1$Z	G.W.	15 45 22	Epicentral Region:
			ipPR$_1$Z	G.W.	15 45 47	6°.5 S., 151°.7 E.
			iSKKSE	G.W.	15 52 28	h = 100± Km
			iPSE	G.W.	15 55 10	H = $15^h25^m50^s$
			iLE	G.W.	16 25 —	Δ_{PR_1-H} = 116°.2
			F	G.W.	18.0	Δ_{meas} = 116°.2
479	Dec. 29	S.L.	ePZ	M.S.	23 02 32	Epicentral Region:
			iSE	S.	23 07 44	9°.2 N., 102°.0 W.
			iSN	S.	23 07 53	H = $22^h56^m06^s$
			F	S.	Lost	Δ_{P-H} = 31°.5
						Δ_{meas} = 31°.3
		Fl.	eSN	G.W.	23 07 39	Δ_{S-H} = 31°.0
			eLN	G.W.	23 11 00	Δ_{meas} = 31°.4
			F	G.W.	Lost	
480	Dec. 29	S.L.	ePZ	M.S.	23 10 08	Region of #479
			i(S)E	S.	23 15 04	
			F	S.	Lost	
		Fl.	i(S)N	G.W.	23 16 03	
			F	G.W.	Lost	
481	Dec. 29	S.L.	iPZ	M.S.	23 51 48	Region of #479
			iN	S.	23 52 48	
			eE	S.	23 56 24	
			i(S)N	S.	23 56 46	
			i(S)N	S.	23 57 11	
			iLN	S.	24 01 56	
			F	S.	24.3	
		Fl.	e(S)N	G.W.	23 57 00	
			F	G.W.	24.3	
482	Dec. 30	S.L.	ePZ	M.S.	22 09 08	Region:
			iPZ	M.S.	22 09 15	44°N., 130° W.
			iZ !	M.S.	22 09 24	H = $22^h02^m50^s$
			iSN	S.	22 14 15	
			iLN	S.	22 16 08	
			F	S.	23.2	
		Fl.	iE	G.W.	22 09 19	
			iSE	G.W.	22 14 14	
			F	G.W.	23 -- —	
483	Dec. 31	S.L.	ePZ	M.S.	22 01 12	
			eSN	S.	22 05 40	14°.1 N. 93°.5 W.
			eE	S.	22 06 07	H = $21^h55^m47^s$
			eE	S.	22 06 28	Δ_{P-H} = 25°.0
			eE	S.	22 12 48	Δ_{meas} = 25°.0
			F	S.	22.7	
		Fl.	eSN	G.W.	22 05 38	Δ_{S-H} = 24°.9
			F	G.W.	22.5	Δ_{meas} = 25°.1

Minor Seismic Activity

Station	Date	From h m	To h s	Remarks
S.L.	December 7	16 01	16 06	
S.L.	7	21 42	22 38	
S.L.	8	09 25	09 53	
S.L.	13	03 29	03 48	
S.L.	17	14 17	15 09	
Fl.	17	14 39	15 05	
S.L.	17	22 13	22 31	
S.L.	18	17 57	18 06	
S.L.	21	00 12	00 56	
S.L.	22	02 40	03 05	
S.L.	22	09 48	10 07	
S.L.	22	11 30	12 10+	
S.L.	23	18 06	19 09	
S.L.	27	01 --	03.5	Strong surface waves.
Fl.	27	06 52	07 08	
Fl.	28	01 35	04 09	

James B. Macelwane, S. J.
Director

Harry K. Haill
Student Assistant