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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Trinidad, West Indies.

JAN 1961

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10°	39.0'	N	LONG.	61°	24.1'	W	27m.
GRENADA	(GREN)	LAT.	12°	02.7'	N	LONG.	61°	44.1'	W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13°	10.2'	N	LONG.	61°	15.5'	W	10m.
BARBADOS	(BARB)	LAT.	13°	07.4'	N	LONG.	59°	35.6'	W	70m
DOMINICA	(DOM)	LAT.	15°	17.7'	N	LONG.	61°	23.5'	W	40m
ANTIGUA	(ANT)	LAT.	17°	08.6'	N	LONG.	61°	50.1'	W	27m
ST. KITTS	(ST. KIT)	LAT.	17°	20.3'	N	LONG.	62°	43.7'	W	

EQUIPMENT

All stations are equipped with Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

EPICENTRES are quoted to the first decimal place of a degree when this is justified, other wise to one half of a degree.

Depths are quoted to one kilometer and origin times to one tenth of a second.

Intensity Scale in use: Modified Mercalli Intensity Scale.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West.

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

DATE 1961		STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN	1	TRIN	eP	01.41.59		2.1°	
			eS	01.42.20			
	1	TRIN	eP	11.16.59			
	1	TRIN	eP	15.23.17			
	1	ST. KIT	iP	16.59.33		2.6°	
			iS	17.00.00			
		TRIN	eP	17.00.45		7.7°	
	1	TRIN	eP	21.08.20		1.1°	
			iS	21.08.32			
	2	ST. KIT	eP	00.34.15			
	2	TRIN	eP'2	21.11.44		148.5°	USCGS Gives H: 20.51.59 E: 6.8° S 150.3°E Depth: About 62 km
	2	ST. KIT	eP	22.45.09			
	2	TRIN	eP	23.03.28		1.1°	
			iS	23.03.40			
	3	ST. KIT	iP	06.49.28			
		ST. VIN	eP	06.49.59			
			e	06.50.48			
		BARB	eP	06.50.31			
		TRIN	iP	06.50.38			
	3	ST. KIT	iP	06.53.34	d		D = K C = A
	3	ST. KIT	iP	06.55.20			

DATE 1916		STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN	3	ST. KIT	iP	07.44.16	d		
		TRIN	eP	07.45.27			
	3	ST. KIT	iP	08.48.28	c		
		ST. VIN	eP	08.49.01			
		TRIN	iP	08.49.39			
	3	ST. KIT	iP	13.44.18		2.67°	H: 13.43.41 E: 18.0°N 60.0°W Magnitude: 6.4
			iS	13.44.49			
		ST. VIN	eP	13.44.51		5.01°	
		TRIN	eP	13.45.27		7.51°	
			eS	13.46.47			
	3	ST. KIT	iP	13.48.27			
		ST. VIN	eP	13.48.59			
		TRIN	eP	13.49.37			
	3	ST. KIT	iP	21.14.40			
	4	TRIN	iP	07.07.44		1,3°	
			iS	07.07.57			
		ST. VIN	eP	07.07.59		2.4°	
	4	TRIN	eP	17.02.53			
	4	TRIN	iP	17.10.31		0.5°	
			iS	17.10.36			
	5	TRIN	eP	02.37.57		3.2°	
			iS	02.38.30			

DATE 1961		STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN	5	ST. KIT	eP	14.19.29		90.6°	Felt: Adak USCGS Gives H: 14.06.26 E: 51.6°N 176.3°W Depth: About 37 km.
		ST. VIN	eP	14.19.47		95.0°	
		TRIN	eP	14.19.56		97.0°	
	5	ST. VIN	eP'	16.13.(40)		154.5°	Felt: New Guinea USCGS gives H: 15.53.56 E: 4.1°S 143.0°E Depth: About 108 km.
		ST. KIT	eP'	16.13.41		151.7°	
		TRIN	eP' i	16.13.41 16.14.40		155.2°	
	5	TRIN	eP'	18.16.59		130.5°	USCGS Gives H: 17.57.57 E: 21.2°S 169.3°E Depth: About 123 km.
			i	18.17.01			
		ST. KIT	eP'	18.17.02		130.8°	
	5	ST. KIT	eP	18.20.22			
	5	TRIN	eP'	18.33.45		130.6°	USCGS Gives H: 18.14.43 E: 21.0°S 169.1°E Depth: About 124 km.
		ST. KIT	eP'	18.33.46		131.0°	
	5	TRIN	eP	22.07.22			
	5	ST. KIT	eP	22.47.51		2.2°	
			iS	22.48.13			
	6	TRIN	eP	08.17.20		1.7°	
			iS	08.17.38			
	7	TRIN	eP	18.28.28		74.2°	USCGS Gives H: 18.16.51 E: 57.2°S 25.3°W Depth: About 94 km.
		ST. VIN	eP	18.28.42		76.5°	
		ST. KIT	eP	18.29.06		80.8°	
	7	ST. KIT	eP	21.05.16		1.6°	
			iS	21.05.32			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN 8	TRIN	eP	06.43.10		0.8°	
		eS	06.43.18			
8	TRIN	eP	21.15.39			
9	TRIN	eP	07.46.46		0.4°	
		iS	07.48.51			
9	ST. KIT	iP	11.07.26	d	1.61°	H: 11.07.03 E: 17.7° N 61.1° W Depth about 25 km. Magnitude: 6.4
	ST. VIN	eP	11.08.06		4.54°	
	BARB	eP	11.08.14		4.82°	
	TRIN	eP	11.08.43		7.05°	
		iP	11.08.45			
9	ST. KIT	iP	11.11.38		1.7°	USCGS Gives H: 11.11.13 E: 17.6° N 61.0° W Depth: About 52 km.
	ST. VIN	eP	11.12.15		4.4°	
	BARB	eP	11.12.31		4.6°	
	TRIN	eP	11.12.54		7.0°	
9	ST. VIN	e	11.22.14			
	ST. KIT	iP	11.22.31			
9	ST. KIT	iP	11.24.34		0.81°	H: 11.24.23 E: 17.0° N 62.0° W Magnitude: 5.6
	ST. VIN	eP	11.25.17		3.86°	
	TRIN	eP	11.25.52		6.34°	
9	ST. KIT	iP	12.39.52		1.3°	
		iS	12.40.05			
9	ST. VIN	eP	12.53.08			
9	ST. VIN	eP	13.01.40			

DATE 1961		STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN	9	TRIN	eP	16.23.58		3.2°	
			eS	16.24.31			
	9	ST. KIT	iP	17.27.46		2.5°	
			iS	17.28.12			
	9	ST. KIT	iP	19.22.34		1.7°	USCGS gives H: 19.22.06 E: 17.8°N 61.0°W Depth: About 31 km
		ST. VIN	eP	19.23.13		4.6°	
		BARB	eP	19.23.20		4.9°	
		TRIN	eP	19.23.52		7.2°	
			iP	19.23.54			
			iS	19.25.05			
	9	ST. KIT	iP	19.25.25		1.1°	USCGS gives H: 19.25.00 E: 17.7°N 61.6°W Depth: About 31 km
		ST. VIN	iP	19.26.06	d	4.6°	
		BARB	eP	19.26.14		5.0°	
		TRIN	eP	19.26.43		7.1°	
			iS	19.28.02			
	9	ST. KIT	eP	19.38.40		2.0°	
			iS	19.39.01			
	9	ST. KIT	iP	19.49.43		0.89°	H: 19.49.31 E: 16.8°N 61.9°W Magnitude: 5.5
		ST. VIN	eP	19.50.23		3.74°	
		TRIN	eP	19.50.58		6.22°	
	9	ST. KIT	iP	20.05.39			
	9	ST. KIT	iP	20.11.31		1.6°	
			iS	20.11.48			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN 9	ST. KIT	iP	20.42.08		2.0°	
		iS	20.42.29			
9	ST. KIT	eP	20.55.20		2.1°	
		iS	20.55.41			
10	ST. KIT	eP	06.22.33		2.2°	
		eS	06.22.56			
10	ST. KIT	iP	08.01.07		1.7°	
		iS	08.01.25			
	ST. VIN	e	08.01.49			
10	ST. KIT	eP	08.25.13		2.1°	
		iS	08.25.34			
10	TRIN	e	10.55.47			
10	ST. KIT	iP	11.09.42		0.92°	H: 11.09.29
	ST. VIN	eP	11.10.21		3.71°	E: 16.8° N 61.9° W
	TRIN	eP	11.10.58		6.20°	Magnitude: 5.9
10	ST. KIT	eP	11.15.43		2.2°	
		eS	11.16.06			
10	TRIN	eP	14.21.44			
		e	14.28.48			
10	ST. KIT	iP	14.33.10		2.3°	
		iS	14.33.33			
10	ST. VIN	eP	18.33.17			

DATE 1961		STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE
JAN	10	ST. KIT	eP	23.04.23		2.4°
			iS	23.04.48		
	10	ST. VIN	eP	23.10.56		
	11	ST. KIT	eP	00.05.05		2.4°
			iS	00.05.30		
	11	ST. KIT	eP	06.50.00		2.3°
			iS	06.50.24		
	11	ST. KIT	eP	08.48.14		2.4°
			iS	08.48.38		
	11	ST. KIT	iP	09.58.30		2.3°
			iS	09.58.54		
	11	DOM	e	10.38.05		
		TRIN	iP	10.38.08	d	0.9
			iS	10.38.17		
	11	ST. KIT	iP	11.02.10		1.6°
			iS	11.02.27		
		DOM	eP	11.02.21		2.4°
	11	ST. KIT	eP	15.19.22		2.1°
			iS	15.19.43		
	11	ST. KIT	iP	16.25.45		2.1°
			iS	16.26.07		
	11	ST. KIT	eP	17.17.36		2.0°
			iS	17.17.56		

DATE 1961		STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE
JAN	11	ST. KIT	iP	18.00.49		1.9°
			eS	18.01.08		
	11	ST. KIT	iP	19.22.39	d	2.1°
			iS	19.23.00		
	11	TRIN	iP	20.26.23		0.7°
			iS	20.26.31		
	11	ST. KIT	iP	21.54.07		2.2°
			iS	21.54.30		
	12	TRIN	iP	09.39.10	d	1.4°
			iS	09.39.25	c	
	12	TRIN	eP	19.03.35		
	12	TRIN	eP	22.06.03		
	13	ST. VIN	eP	10.34.55		
	13	ST. VIN	eP	11.21.53		
	13	ST. KIT	iP	13.37.25	c	2.0°
			iS	13.37.46		
	14	TRIN	eP	00.26.33		2.2°
			iS	00.26.55		
	14	ST. KIT	eP	03.23.44		2.1°
			iS	03.24.05		
	14	TRIN	eP'	05.52.14		145.7°

USCGS Gives H: 05.23.43
E: 5.4°S 152.9°E
Depth: About 81 km.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN 14	TRIN	eP	07.34.39		0.7°	
		iS	07.34.46			
	ST. VIN	eP	07.34.53		1.6°	
14	TRIN	iP	12.19.20		1.0°	
		iS	12.19.30			
14	TRIN	iP	12.32.39	d	1.3°	
		iS	12.32.53			
14	TRIN	eP	16.20.13		12.2°	USCGS gives H: 16.17.26 E: 6.7°N 73.0°W Depth: About 177 km.
		i	16.20.22			
		i	16.22.44			
	ST. VIN	eP	16.20.28		13.4°	
	DOM	eP	16.20.44		14.2°	
	ST. KIT	eP	16.20.45		14.5°	
	BARB	eP	16.20.48		14.6°	
14	TRIN	iP	21.00.54	d	1.1°	
		iS	21.01.05			
	ST. VIN	eP	21.01.07		2.0°	
		iS	21.01.27			
15	ST. KIT	iP	05.56.41		0.88°	H: 05.56.29 E: 16.9°N 62.0°W Magnitude: 6.0
	ST. VIN	eP	05.57.22		3.74°	
	BARB	e	05.57.28		4.36°	
	GREN	eP	05.57.38		4.80°	
	TRIN	eP	05.57.56		6.22°	
		i	05.58.01			

DATE 1961		STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN	15	ST. KIT	eP	06.37.31		2.2°	
			iS	06.37.53			
	15	DOM	eP	07.56.53		4.2°	
			iP	07.56.56			
			iS	07.57.36			
	15	ST. KIT	e	17.03.35		130.7°	USCGS Gives H: 16.44.45 E: 20.4°S 169.5°E Depth: About 182 km.
		TRIN	eP'	17.03.39		130.3°	
	15	ST. VIN	eP	18.50(08)		2.7°	H: 18.49.30 E: 15½°N 60½°W Depth: About 75 km. Magnitude: 5.5
		ST. KIT	eP	18.50(09)		2.9°	
			iS	18.50.38			
		TRIN	eP	18.50.(44)		5.2°	
			e	18.51.42			
	16	ST. KIT	iP	13.05.59		2.1°	
			iS	13.06.21			
	16	TRIN	iP	16.28.19	d	0.8°	
			iS	16.28.27			
	16	ST. KIT	iP	17.16.19		2.3°	
			iS	17.16.43			
	17	BARB	eP	06.51.53		0.44°	H: 06.51.43 E: 12.9°N 59.2°W Magnitude: 4.4
		ST. VIN	eP	06.52.12			
			e	06.52.38		2.02°	
		TRIN	eP	06.52.27			
			i	06.53.16		3.09°	
	17	ST. KIT	eP	07.07.31		2.1°	
			eS	07.07.52			

DATE 1961		STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN	17	TRIN	eP	07.44.32		2.9°	H: 07.43.51
			iP	07.44.34			E: About 10°N 64°W
			iS	07.45.02			Depth: About 100 km.
							Magnitude: 5.8
		ST. VIN	eP	07.44.49		4.3°	
		ST. KIT	eP	07.45.35		7.4°	
	17	TRIN	iP	09.31.09	d	1.2°	
			iS	09.31.21			
	18	ST. KIT	eP	03.24.27		2.2°	
			iS	03.24.49			
	18	ST. KIT	eP	07.15.24		2.0	
			iS	07.15.45			
	18	TRIN	iP	20.38.04		1.2°	
			iS	20.38.17			
	18	ST. KIT	ip	23.30.58		2.2°	
			iS	23.31.20			
	19	TRIN	eP	01.39.02		2.3°	
			iS	01.39.25			
	20	ST. VIN	eP	15.04.07		1.4°	
			iS	15.04.21			
		GREN	iP	15.04.07		1.4°	
			iS	15.04.21			
		TRIN	e	15.04.43			
	20	ST. VIN	eP	17.21.27			
		TRIN	eP	17.21.31			

X 17-9.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN 20	TRIN	iP	22.45.58		0.6°	
X 22-34?		iS	22.46.04			
21	TRIN	iP	07.43.11		0.5°	
		iS	07.43.17			
21	TRIN	iP	08.11.12		0.7°	
		iS	08.11.19			
21.	TRIN	eP	14.52.42		21.4°	USCGS Gives H; 14.47.57 E: 8.6°N 82.8°W
	ST. VIN	eP	14.52.47		21.6°	Depth: About 40 km
22	TRIN	e	03.46.54			
X 3-24?		e	04.04.51			
		e	04.38.08			
22	TRIN	eP	20.55.05			
22	TRIN	eP	22.31.04			
22	TRIN	eP	22.52.35			
		i	22.52.52			
22	TRIN	eP	23.25.40			
		e	23.27.01			
22	TRIN	eP	23.41.48			
23	TRIN	eP	00.07.02			
23	TRIN	eP	00.35.24			
		e	00.36.48			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN 23	TRIN	eP	01.15.38			Small
		e	01.16.51			
23	TRIN	eP	02.49.42			
24	GREN	eP	23.17.30		21.2°	USCGS Gives H: 23.12.49 E: 8.3°N 82.9°W Depth: About 78 km.
	TRIN	eP	23.17.31		21.4°	
	ST. V IN	eP	23.17.40		21.9°	
25	TRIN	eP	03.51.33		22.0°	USCGS Gives H: 03.46.46 E: 0° 80.2°W
26	TRIN	iP	00.04.53	c		
	GREN	eP	00.05.00			
26	ST. VIN	eP	10.48.18			
		e	10.48.42			
	TRIN	eP	10.48.54			
26	TRIN	iP	11.39.30	d	0.7°	
		iS	11.39.37			
26	ST. VIN	e	18.42.11			
26	TRIN	eP'	19.08.01		130.0°	USCGS Gives H: 18.48.57 E: 20.7°S 169.5°E Depth: About 106 km.
27	TRIN	eP	01.11.47			
27	TRIN	eP'	14.14.50		146.5°	USCGS Gives H: 13.55.16 E: 5.5°S 151.9°E Depth: About 118 km.

DATE 1961		STATION	PHASE	TIME G.M.T	MOTION	DISTANCE	
JAN	28	TRIN	eP	03.30.34		28.3°	USCGS Gives H: 03.24.39 E: 13.6°S 76.6°W Depth: About 35 km.
		GREN	eP	03.30.41		29.0°	
		BARB	eP	03.31.01		31.4°	
	28	TRIN	eP	14.17.16		69.0°	USCGS Gives H: 14.06.21 E: 45.0°S 105.8°W Depth: About 144 km
	28	TRIN	iP	15.13.02	c	0.8°	
			iS	15.13.10			
		GREN	eP	15.13.17		1.9°	
	28	TRIN	iP	16.16.54	d	1.0°	
			iS	16.17.05			
		GREN	iP	16.16.58		1.4°	
			iS	16.17.12			
	28	TRIN	iP	17.13.36	d	0.8°	
			iS	17.13.44			
		GREN	eP	17.13.57		2.3°	
	28	TRIN	eP	23.50.40			
	29	TRIN	eP	13.37.22		95.8°	USCGS Gives H: 13.23.55 E: 51.8°N 175.9°W Depth: About 41 km.
	30	TRIN	iP	02.08.10	c	1.1°	
			iS	02.08.22			
		GREN	eP	02.08.16		1.6°	
			iS	02.08.32			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JAN 30	TRIN	eP	09.10.08			
31	TRIN	eP	01.01.00		82.6°	USCGS Gives H:00.48.37 E: 55.8°N 153.9°W Depth: About 26 km.
31	TRIN	eP	14.13.53		1.7°	
		iS	14.14.10			

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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Trinidad, West Indies.

- FEB 1981

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10°	39.0'	N	LONG.	61°	24.1'	W 27m.
GRENADA	(GREN)	LAT.	12°	02.7'	N	LONG.	61°	44.1'	W 30m.
ST. VINCENT	(ST. VIN)	LAT.	13°	10.2'	N	LONG.	61°	15.5'	W 10m.
BARBADOS	(BARB)	LAT.	13°	07.4'	N	LONG.	59°	35.6'	W 70m
DOMINICA	(DOM)	LAT.	15°	17.7'	N	LONG.	61°	23.5'	W 40m
ANTIGUA	(ANT)	LAT.	17°	08.6'	N	LONG.	61°	50.1'	W 27m
ST. KITTS	(ST. KIT)	LAT.	17°	20.3'	N	LONG.	62°	43.7'	W

EQUIPMENT

All stations are equipped with Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

EPICENTRES are quoted to the first decimal place of a degree when this is justified, other wise to one half of a degree.

Depths are quoted to one kilometer and origin times to one tenth of a second.

Intensity Scale in use: Modified Mercalli Intensity Scale.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West.

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
FEB 1	TRIN	eP'	05.13.20		146.3°	USCGS Gives H: 04.53.44 E: 11.9°N 143.7°E Depth: About 95 km.
1	TRIN	eP	09.17.12			
	GREN	e	09.17.29			
1	TRIN	iP iS	15.02.30 15.02.44		1.43°	H:15.02.11 E: 10.9°N 62.3°W Depth: About 125 km. Magnitude: 4.3
	GREN	iP iS	15.02.35 15.02.52		1.67°	
	ST. VIN	eP	15.02.49		2.70°	
2	TRIN	eP	02.03.01			
2	ST. VIN	eP	08.45.14		0.10°	H: 08.45.13 E: 13.2°N 61.4°W Magnitude: (3.7)
	GREN	eP	08.45.29		1.18°	
	TRIN	eP	08.45.48		2.53°	
2	TRIN	eP'	11.32.57		144.0°	USCGS Gives H: 11.13.32 E: 13.6°N 145.3°E Depth: About 131 km.
4	TRIN	eP	01.19.01		30.0°	USCGS Gives H: 01.13.05 E: 18.3°S 69.3°W Depth: About 178 km.
	GREN	eP	01.19.12		31.2°	
	ST. VIN	eP	01.19.20		32.7°	
4	ST. VIN	eP	01.49.27			
4	TRIN	eP iS	06.57,53 06.58.05		1.2°	
	GREN	eP iS	06.57.58 06.58.15		1.7°	
4	TRIN	eP' e	09.11.04 09.11.37		138.1°	USCGS Gives H: 08.51.49 E: 24.7°N 95.3°E Depth: About 162 km.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
FEB 4	TRIN	eP	10.06.02		1.1°	
		iS	10.06.13			
4	TRIN	eP'	19.28.58		145.2°	Felt: Off east coast of Formosa. USCGS Gives H: 19.09.13 E: 24.0°N 122.7°E Depth: About 14 km.
5	BARB	eP	07.41.38		1.1°	
	ST. VIN	iP	07.41.46	c	1.6°	
		iS	07.42.03			
5	TRIN	iP	15.43.18		21.2°	USCGS Gives H: 15.38.34 E: 8.0°N 82.8°W Depth: About 49 km.
		i	15.43.24			
		eS	15.47.17			
	GREN	iP	15.43.19		21.3°	
	ST. VIN	eP	15.43.25		21.6°	
	BARB	eP	15.43.41		23.4°	
5	TRIN	iP	19.11.08			
	GREN	eP	19.11.09			
6	TRIN	eP	10.36.09		30.7°	USCGS Gives H: 10.30.07 E: 19.2°S 68.6°W Depth: About 181 km.
	GREN	eP	10.36.19		31.9°	
	ST. VIN	eP	10.36.28		33.3°	
6	TRIN	iP	14.46.35	d	1.1°	
		iS	14.46.47			
6	GREN	eP'	19.48.15		144.0°	USCGS Gives H: 19.29.33 E: 4.8°S 154.2°E Depth: About 470 km
	TRIN	eP'	19.48.19		144.1°	
	ST. VIN	eP'	19.48.19		144.2°	
	BARB	eP'	19.48.27		145.7°	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
FEB 6	GREN	eP'	22.04.36		143.1°	Felt: Solomon Islands. USCGS Gives H: 21.45.14 E: 6.8°S 155.3°E Depth: About 59 km.
	ST. VIN	eP'	22.04.38		143.5°	
	TRIN	eP'	22.04.40		143.6°	
		e	22.04.43			
	BARB	eP'	22.04.48		144.9°	
7	TRIN	iP	10.34.39			
7	TRIN	iP	12.19.52	d	1.5°	
		iS	12.20.08			
7	TRIN	eP	14.02.34			
7	TRIN	eP'	15.48.10		145.6°	USCGS Gives H: 15.28.33 E: 23.5°N 121.0°E Depth: About 38 km.
7	TRIN	iP	18.26.23	d	1.4°	
		iS	18.26.38			
8	TRIN	eP	02.39.43		1.9°	
		iS	02.40.02			
8	TRIN	eP'	02.55.40		132.0°	USCGS Gives H: 02.36.41 E: 15.3°S 167.5°E Depth: About 162 km.
8	TRIN	eP	02.58.56			
8	TRIN	eP	08.08.38		21.2°	USCGS Gives H: 08.04.14 E: 10.6°S 71.0°W Depth: About 669 km.
	GREN	eP	08.08.47		24.2°	
		e	08.10.22			
	ST. VIN	eP	08.08.57		25.6°	
	BARB	eP	08.09.07		26.0°	
		eS	08.12.54			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
FEB 8	TRIN	iP	11.55.36	d	1.2°	
		iS	11.55.48			
8	GREN	iP	23.17.45	c	3.87°	H: 23.16.50
		iS	23.18.23			E: 12.3°N 65.2°W
						Depth: About 200 km.
	ST. VIN	iP	23.17.51	d	4.35°	Magnitude: 6.5
		iS	23.18.40			
	TRIN	iP	23.17.54	d	4.49°	
		iS	23.18.41			
	BARB	eP	23.18.16		5.85°	
9	TRIN	eP	07.34.22			
9	TRIN	eP	18.34.38			
		e	18.35.33			
10	TRIN	iP	09.59.41	d	1.3°	
		iS	09.59.55			
11	TRIN	eP	09.03.13			
12	GREN	iP	10.09.47	c	1.0°	
		iS	10.09.58			
	ST. VIN	eP	10.09.57		1.8°	
		iS	10.10.15			
12	TRIN	eP	10.10.56		1.4°	
		iS	10.11.10			
12	ST. KIT	eP'	13.17.39		127.5°	USCGS Gives H: 12.57.15
						E: 13.1°S 171.8°E
						Depth: About 598 km.
13	TRIN	iP	04.08.40	c	1.2°	
		iS	04.08.53			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
FEB 13	GREN	eP	18.18.19		0.1°	
		e	18.18.36			
	TRIN	eP	18.18.24		0.4°	
		iS	18.18.29			
14	TRIN	iP	08.34.01	c	1.52°	H: 08.33.39
		iS	08.34.15			E: 11.0°N 62.7°W
	GREN	iP	08.34.02	c	1.57°	Depth: About75 km.
		iS	08.34.19			Magnitude: 4.7
	ST. VIN	eP	08.34.17		2.67°	
14	TRIN	iP	09.04.32		0.6°	
		iS	09.04.38			
14	TRIN	e	19.38.27			
14	ST. KIT	iP	20.45.18		1.6°	
		iS	20.45.35			
15	BARB	eP	00.02.38			
15	ST. VIN	iP	12.33.56	c	2.60°	H: 12.33.19
		iS	12.34.27			E: 15.6°N 60.7°W
	ST. KIT	iP	12.33.56	c	2.67°	Depth: About 75 km.
						Magnitude: 5.0
	BARB	e	12.34.04		2.80°	
	GREN	iP	12.34.12		3.76°	
	TRIN	iP	12.34.30	c	5.06°	
		iS	12.35.24			
15	TRIN	iP	23.15.28	c	0.6°	
		iS	23.15.34			
17	TRIN	eP	06.14.43		12.4°	USCGS Gives H: 06.11.36
		i	06.14.50			E: 6.5°N 73.5°W
	GREN	eP	06.14.50		12.6°	Depth: About 25. km.
	ST. VIN	eP	06.15.04		13.6°	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE
FEB 17	BARB	e	18.38.46		
	ST. VIN	eP	18.38.51		
17	ST. VIN	eP	19.19.04		
	BARB	eP	19.19.10		
17	ST. VIN	eP	19.55.22		
	BARB	eP	19.55.52		
17	TRIN	iP	08.24.13	c	1.2°
		iS	08.24.25		
	GREN	eP	08.24.16		1.6°
		iS	08.24.32		
18	TRIN	eP	09.06.54		
		i	09.06.58		
18	ST. VIN	eP	09.48.46		
	BARB	eP	09.48.47		
	GREN	eP	09.49.08		
	TRIN	eP	09.49.17		
18	TRIN	eP	19.48.06		3.5°
		iS	19.48.42		
19	TRIN	eP	00.33.24		
19	TRIN	eP	16.08.22		2.7°
		iS	16.08.50		
	ST. VIN	eP	16.08.26		3.1°
19	TRIN	iP	17.13.44		1.1°
		iS	17.13.56		
20	TRIN	eP	02.55.00		

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
FEB 20	ST. KIT	eP	12.10.27			
	TRIN	eP	12.11.56			
20	TRIN	eP	18.33.33			
	ST. VIN	eP	18.33.53			
20	ST. VIN	iP	18.54.50		2.20°	H: 18.54.19
		iS	18.55.12			E: 15.0°N 60.2°W
						Depth: About 80 km
	BARB	eP	18.54.52		2.09°	Magnitude: 5.6
	ST. KIT	iP	18.55.08		3.45°	
	TRIN	eP	18.55.23		4.55°	
		i	18.56.17			
20	TRIN	eP	22.31.42		20.8°	USCGS Gives H: 22.27.00
		e	22.37.13			E: 2.5°S 77.6°W
						Depth: About 50 km.
21	ST. VIN	eP	10.49.42		2.93°	H: 10.49.01
		eS	10.50.12			E: 15.7°N 59.8°W
						Magnitude: 5.7
	ST. KIT	iP	10.49.46		3.22°	
		iS	10.50.19			
	TRIN	eP	10.50.16		5.33°	
21	ST. VIN	e	16.49.56			
21	TRIN	iP	18.05.54	d	1.2°	
		iS	18.06.06			
21	ST. KIT	iP	18.42.34		1.5°	
		iS	18.42.49			
21	ST. KIT	iP	22.06.07		2.3°	
		iS	22.06.30			
	TRIN	eP	22.07.27		5.0°	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
FEB 21	TRIN	iP	23.29.04	d	1.1°	Felt: Tobago
		iS	23.29.15			Intensity: IV
	ST. VIN	eP	23.29.24		2.5°	
22	TRIN	eP	02.13.30		1.2°	
		eS	02.13.42			
23	ST. KIT	eP	08.10.51		2.8°	
		iS	08.11.20			
	ST. VIN	eP	08.11.02		3.5°	
23	TRIN	iP	15.56.38		1.3°	
		iS	15.56.51			
23	TRIN	eP	19.33.12			Small
23	ST. VIN	eP	21.09.06			
24	ST. KIT	iP	00.29.04			
24	TRIN	eP'	03.23.43		142.8°	USCGS Gives H: 03.04.12 E: 26.1°N 125.4°E Depth: About 25 km.
24	TRIN	iP	06.27.38	d	0.4°	
		iS	06.27.43			
26	TRIN	eP	05.59.21			
26	TRIN	iP	13.45.30	d	0.83°	H: 13.45.18 E: 11.0°N 62.2°W Magnitude: 5.7
		iS	13.45.39			
	ST. VIN	eP	13.45.51		2.32°	
	ST. KIT	iP	13.46.48		6.35°	
26	TRIN	eP'	18.30.04		136.3°	1 killed, several injured, and extensive property damage at Miyazaki. 3 ft. Tsunami observed in South West Shikoku. USCGS Gives H: 18.10.49 E: 31.4°N 131.2°E Depth: About 54 km.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
FEB 26	TRIN	eP'_2	21.21.04		153.1°	Felt: Luzon, Philippine Islands. USCGS Gives H: 21.01.05 E: 16.0°N 121.6°E Depth: About 32 km
27	TRIN	eP	01.10.41		12.0°	USCGS Gives H: 01.07.51 E: 6.7°N 73.0°W Depth: About 200 km
		iP	01.10.47			
		iS	01.13.10			
	ST. VIN	eP	01.10.55		13.1°	
	ST. KIT	eP	01.11.11		14.3°	
	BARB	eP	01.11.21		14.5°	
27	TRIN	eP	07.57.00		0.8°	
		iS	07.57.08			
27	TRIN	eP	15.49.14		22.7°	Minor damage at San Jose. USCGS Gives H: 15.44.20 E: 9.8°N 84.4°W Depth: About 97 km.
	ST. VIN	eP	15.49.14		22.8°	
28	ST. KIT	eP	03.58.57		3.3°	
		iS	03.59.31			
	TRIN	eP	04.00.29		9.8°	
28	TRIN	iP	21.52.57		1.1°	
		iS	21.53.09			
	ST. VIN	eP	21.53.18		2.6°	
28	TRIN	eP	22.07.49			
28	TRIN	eP	23.54.26			
28	TRIN	eP	23.58.23		0.8°	
		iS	23.58.31			

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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Trinidad, West Indies.

MAR 1961

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10°	39.0'	N	LONG.	61°	24.1'	W	27m.
GRENADA	(GREN)	LAT.	12°	02.7'	N	LONG.	61°	44.1'	W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13°	10.2'	N	LONG.	61°	15.5'	W	10m.
BARBADOS	(BARB)	LAT.	13°	07.4'	N	LONG.	59°	35.6'	W	70m
DOMINICA	(DOM)	LAT.	15°	17.7'	N	LONG.	61°	23.5'	W	40m
ANTIGUA	(ANT)	LAT.	17°	08.6'	N	LONG.	61°	50.1'	W	27m
ST. KITTS	(ST. KIT)	LAT.	17°	20.3'	N	LONG.	62°	43.7'	W	

EQUIPMENT

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Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

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Intensity Scale in use: Modified Mercalli Intensity Scale.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West.

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAR 1	TRIN	eP'	00.43.01		145.9°	USCGS gives H: 00.23.43 E: 13.2° N 143.2° E Depth about 221 km.
2	TRIN	eP	22.52.10			
		iP	22.52.12			
3	BARB	eP	05.00.43		1.6°	
	ST. VIN	eP	05.01.00		3.0°	
		iS	05.01.31			
4	TRIN	eP	08.01.08			
5	TRIN	eP	10.31.09			
		i	10.31.21			
5	TRIN	iP	20.13.20		0.6°	
		iS	20.13.26			
6	BARB	e	21.13.35			
	ST. VIN	iP	21.14.30	d	2.7°	
	ST. KIT	eP	21.14.47		5.4°	
	TRIN	e	21.15.06			
6	TRIN	eP	23.40.31		1.4°	
		iS	23.40.45			
7	TRIN	iP	05.02.26	d	0.2°	
		iS	05.02.28			
7	TRIN	eP	06.03.28		1.1°	
		eS	06.03.39			
7	TRIN	iP	08.47.12		1.3°	
		iS	08.47.25			
7	TRIN	eP'	10.29.23		116.3	USCGS gives H: 10.10.39 E: 28.2° S 175.7° W
		ePS	10.40.00			Depth about 43 km.

1961

			TIME G.M.T.	MOTION	DISTANCE	
MAR 7	TRIN	eP'	23.31.31		145.1°	Felt New Britain Region USCGS gives H: 23.12.00 E: 4.7°S 153.2° E Depth about 90 km.
		iP'	23.31.35			
		ePP	23.35.10			
	ST. VIN	eP'	23.31.31		145.2°	
8	TRIN	iP	00.46.54		1.4°	
		iS	00.47.09			
8	TRIN	eP	07.01.38		1.7°	
		iS	07.01.55			
8	TRIN	eP	11.26.48			
	ST. VIN	eP	11.26.49			
		e	11.29.03			
8	TRIN	eP	18.50.11		1.5°	
		iP	18.50.14			
		iS	18.50.27			
8	TRIN	eP	18.51.57		1.2°	
		iS	18.52.09			
9	TRIN	eP	03.13.26			
	ST. VIN	eP	03.14.01			
9	BARB	eP	04.03.22		17.8°	USCGS gives H: 03.59.09 E: 10.9° N 41.7° W Depth about 27 km.
	TRIN	eP	04.03.36		19.2°	
	ST. VIN	eP	04.03.41		19.3°	
	ST. KIT	eP	04.03.58		21.6°	
9	BARB	e	04.20.31			
10	ST.VIN	iP	03.44.07		2.39°	H: 03.43.34 E: 15° N 61.7° W Depth: About 175 km Magnitude: 5.2.
		i	03.44.38			
	BARB	eP	03.44.17		2.82°	
	ST. KIT	eP	03.44.20		3.27°	
		e	03.44.56			
	TRIN	iP	03.44.39		4.60°	
		iS	03.45.27			

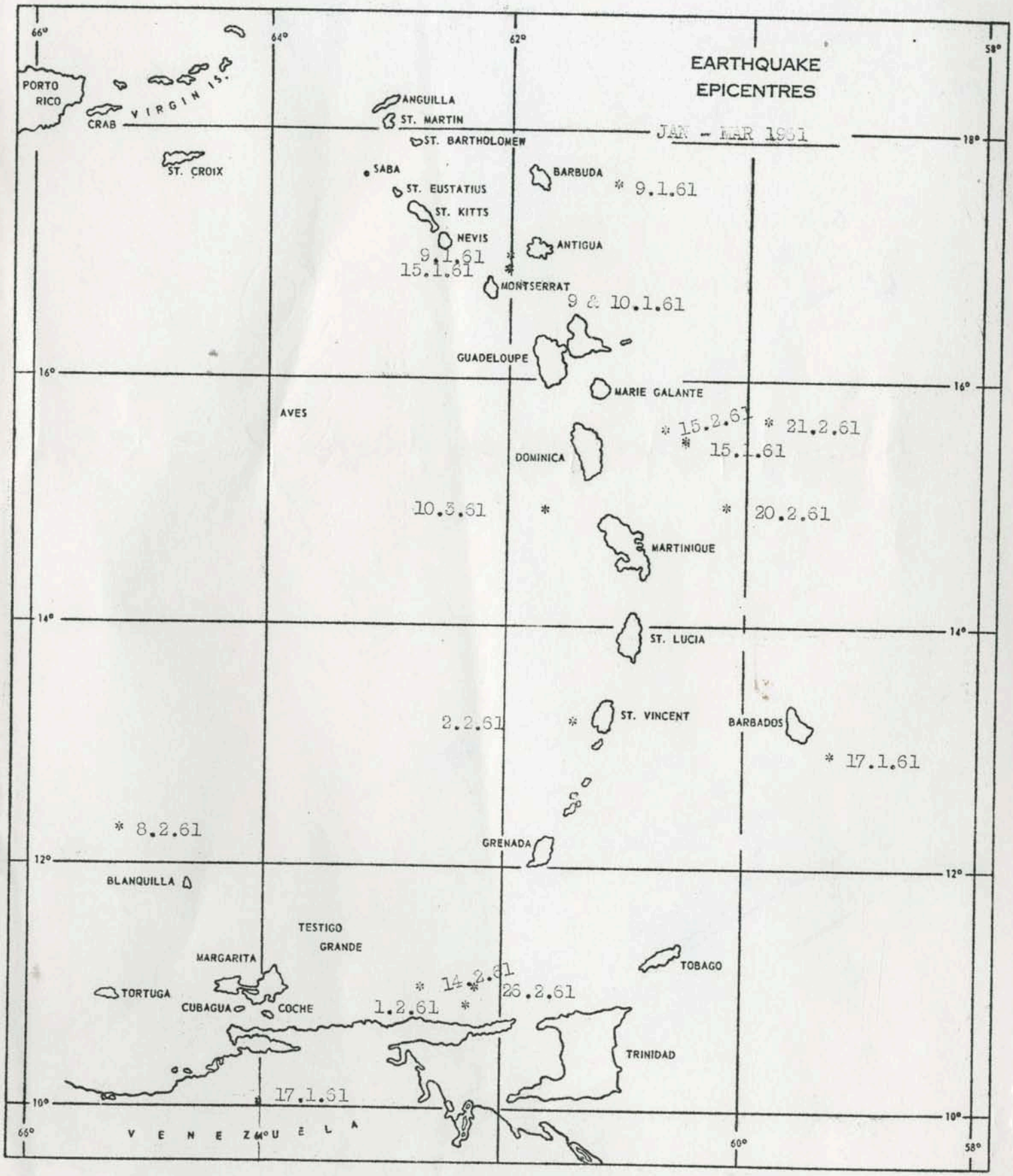
DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAR10	BARB	eP	22.12.02			
11	ST. KIT	eP	00.30.37			Small
	TRIN	eP	00.31.56			
11	TRIN	eP	22.10.11			
	.	i	22.10.17			
	ST. VIN	e	22.10.24			
12	ST. VIN	e	09.51.16			
12	TRIN	eP	17.38.04			
12	TRIN	iP	19.39.46		0.6°	
		iS	19.39.52			
12	TRIN	eP	22.44.45		1.5°	
		eS	22.45.00			
13	TRIN	eP'	05.10.53		145.3°	USCGS gives H: 04.51.14 E: 5.2° S 153.3° E Depth about 25 km.
13	ST. KIT	eP	08.11.33		42.3°	USCGS gives H: 08.03.44 E: 19.2° N 107.3° W Depth about 49 km.
13	ST. VIN	iP	22.19.38		2.3°	
		iS	22.20.02			
14	TRIN	iP	09.32.01		1.2°	
		iS	09.32.14			
14	TRIN	iP	17.47.33			
	ST. VIN	iP	17.47.36			
15	ST. KIT	eP'	10.34.33		144.7°	Felt: Rabaul.
	ST. VIN	eP'	10.34.40		147.0°	U.SCGS gives H: 10.14.56
	TRIN	eP'	10.34.40		147.0°	E: 3.3° S 150.7° E Depth about 21 km.

1961			TIME G.M.T.	MOTION	DISTANCE	
MAR15	ST. KIT	eP'	13.20.28		143.5°	Felt: Karlai and Rabaul.
	ST. VIN	eP'	13.20.32		145.8°	USCGS gives H: 13.01.02
	TRIN	eP'	13.20.34		146.0°	E: 4.4° S
	BARB	eP'	13.20.38		147.4°	152.5° E
						Depth about 99 km.
15	TRIN	iP	15.26.28			
		iS	15.26.46		1.7°	
	ST. VIN	iP	15.26.31		2.0°	
	TRIN	iS	15.26.46			
15	TRIN	eP	16.31.37			
15	TRIN	eP	20.21.38		(1.1°)	
		iS	20.21.(49)			
16	TRIN	eP	10.42.14		1.2°	
		iP	10.42.17			
		iS	10.42.26			
16	ST. VIN	iP	11.19.58			
16	TRIN	eP'	14.05.43		176.0°	Flores Island. Some casualties and major property damage at Ende. USCGS gives H: 13.45.36 E: 8.2° S 122.0° E Depth about 74 km.
17	ST. VIN	iP	05.43.23		1.6°	
	TRIN	iP	05.43.27		1.9°	
		iS	05.43.46			
17	ST. KIT	eP	05.58.39		1.7°	
		iS	05.58.56			
17	TRIN	eP	13.58.33		2.63°	H: 13.57.56
	ST. VIN	eP	13.58.42		3.26°	E: 11.3° N 64.0° W
	ST. KIT	eP	13.59.23		6.15°	Magnitude 5.6
17	TRIN	iP	17.37.33		1.4°	
		iS	17.37.47			
17	TRIN	iP	22.59.11		0.7°	
		iS	22.59.19			
18	TRIN	eP	08.03.26			

			TIME G.M.T.	MOTION	DISTANCE	
MAR. 19	ST. KIT	iP	08.27.30		1.6°	
		iS	08.27.46			
20	TRIN	eP	00.28.41		1.4°	
		iS	00.28.56			
20	ST. KIT	eP	06.21.29		23.5°	Felt: Managua.
	TRIN	eP	06.21.35		24.2°	USCGS gives H: 06.16.24
	ST. VIN	eP	06.21.40		24.5°	E: 11.5° N
						86.3° W
						Depth about 122 km.
20	TRIN	eP	06.30.06		1.4°	
		iS	06.30.20			
20	TRIN	eP	16.18.07			
		e	16.22.11			
20	TRIN	iP	18.33.33		1.3°	
		iS	18.33.46			
	ST. VIN	ep	18.33.55		2.8°	
		i	18.34.28			
21	TRIN	e	00.39.08			
21	ST. KIT	iP	04.42.07		1.5°	
		iS	04.42.23			
21	ST. KIT	iP	11.19.44			
	TRIN	eP	11.21.03			
21	ST. KIT	iP	13.05.30		1.7°	
		iS	13.05.48			
21	ST. KIT	iP	13.58.49		1.6°	
		iS	13.59.05			
21	ST. KIT	iP	14.15.14			
22	ST. KIT	iP	17.21.(04)		1.1°	
		iS	17.21.(16)			
24	TRIN	eP	02.18.11		23.2°	USCGS gives H: 02.13.14
						E: 8.5° S
						74.7° W
						Depth about 175 km.

			09.29.26	1.3°	
		iS	09.29.40		
24	TRIN	iP	17.01.17	1.3°	
		iS	17.01.31		
25	TRIN	eP	02.14.49	22.2°	USCGS gives H: 02.10.00
		ePP	02.15.17		E; 2.1° S
					79.4° W
					Depth about 25 km.
25	ST. VIN	eP	06.05.36		
		e	06.07.04		
25	ST. KIT	iP	23.03.38	0.7°	
		iS	23.03.45		
27	ST. VIN	iP	06.40.28	2.6°	
		iS	06.40.55		
28	TRIN	iP	08.36.39	1.4°	
		iS	08.36.53		
28	ST. VIN	eP'	09.55.55	165.9°	USCGS gives H: 09.35.55
		eP'2	09.56.55		E: 0,2° N
	BARB	eP'	09.55.59	166.8°	123.6° E
	TRIN	eP'	09.55.58	168.2°	Depth about 83 km.
		eP'2	09.57.11		
		ePP	10.00.56		
28	TRIN	iP	12.16.47	1.1°	
		iS	12.16.58		
28	ST. VIN	eP	12.42.32	104.3°	USCGS gives H: 12.29.13
	BARB	eP	12.42.37	105.8°	E: 51.7° N
	TRIN	eP	12.42.39	106.3°	176.2° W
					Depth about 60 km.
28	TRIN	iP	15.58.53	0.8°	
		iS	15.59.02		
	ST. VIN	iP	15.59.13	2.2°	
		iS	15.59.36		
28	TRIN	eP	21.08.30		
		e	21.13.44		
	BARB	eP	21.08.39		
	ST. VIN	eP	21.08.51		
		e	21.14.26		
	ST. KIT	eP	21.09 (23)		

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE
MAR 28	TRIN	iP	21.40.40		0.6°
		iS	21.40.46		
29	TRIN	eP	04.53.28		2.1°
		iS	04.53.50		
29	TRIN	iP	19.28.22		1.3°
		iS	19.28.36		
30	TRIN	iP	10.17.19		0.9°
		iS	10.17.28		
30	TRIN	eP	20.48.13		1.2°
		iS	20.48.25		
31	TRIN	iP	23.41.16		1.1°
		iS	23.41.28		



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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Trinidad, West Indies.

APR 1961

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10° 39.0' N	LONG.	61° 24.1' W	27m.
GRENADA	(GREN)	LAT.	12° 02.7' N	LONG.	61° 44.1' W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13° 10.2' N	LONG.	61° 15.5' W	10m.
BARBADOS	(BARB)	LAT.	13° 07.4' N	LONG.	59° 35.6' W	70m
DOMINICA	(DOM)	LAT.	15° 17.7' N	LONG.	61° 23.5' W	40m
ANTIGUA	(ANT)	LAT.	17° 08.6' N	LONG.	61° 50.1' W	27m
ST. KITTS	(ST. KIT)	LAT.	17° 20.3' N	LONG.	62° 43.7' W	

EQUIPMENT

All stations are equipped with Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

EPICENTRES are quoted to the first decimal place of a degree when this is justified, other wise to one half of a degree.

Depths are quoted to one kilometer and origin times to one tenth of a second.

Intensity Scale in use: Modified Mercalli Intensity Scale.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West.

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

1961		PHASE	TIME G.M.T.	MOTION	DISTANCE	
APR 1	TRIN	ePP	15.38.19		116.8°	USCGS gives H: 15.18.23
		eSKSP	15.48.08			E: 39.6°N 77.7°E
						Depth; About 21 km
2	BARB	eP	20.56.37		2.24°	H: 20.56.02
	ST. VIN	eP	20.56.53		3.62°	E: 14.6° N 57.9° W
		iS	20.57.50			Magnitude: 5.3.
	TRIN	iP	20.57.17		5.26°	
2	TRIN	eP	22.13.50		1.0°	
		iS	22.14.00			
3	TRIN	eP	01.13.17		12.0°	USCGS gives H: 01.10.32
		iPP	01.13.25			E: 6.8°N 72.9°W
	ST. VIN	eP	01.13.32		13.0°	Depth: About 221 km
	BARB	eP	01.13.53		14.4°	Depth about 221 km.
3	TRIN	iP	01.25.40			
3	TRIN	iP	03.24.39			
3	ST. VIN	iP	11.18.40		1.55°	H: 11.18.18
		iS	11.18.57			E: 14.2° N 61.1°W
	BARB	eP	11.18.52		2.17°	Magnitude 4.4
	TRIN	iP	11.19.11		3.76°	
		iS	11.19.48			
3	ST. VIN	eP	14.43.33			
		i	14.43.44			
4	TRIN	eP	08.55.01		1.1°	
		iS	08.55.13			
4	TRIN	iP	09.47.33		0.7°	
		iS	09.47.41			
4	TRIN	eP'	10.54.51		149.0°	Felt: New Britain Region
						USCGS gives H: 10.35.11
						E: 5.9°S 149.4°E
						Depth: About 124 km.
4	ST. KIT	eP	20.03.46		1.8°	
		eS	20.04.05			
4	TRIN	eP	23.31.57			

1961		PHASE	TIME G.M.T.	MOTION	DISTANCE	
APR 6	ST. KIT	eP	04.14.35		58.0°	USCGS gives H: 04.04.46
		iP	04.14.39			E: 40.1° N
	ST. VIN	eP	04.14.58		61.5°	124.8° W
						Depth about 73 km.
6	ST. KIT	iP	08.43.32		1.7°	
		iS	08.43.50			
6	ST. VIN	eP	09.38.19		3.30°	H: 09.37.33
	TRIN	eP	09.38.37		4.56°	E: 13.7° N 57.9° W
		iS	09.39.25			Depth about 73 km.
	ST. KIT	eP	09.38.56		5.93°	
		eS	09.39.59			
6	TRIN	eP	11.31.36		1.1°	
		iS	11.31.47			
6	TRIN	iP	19.47.18		1.3°	
		iS	19.47.32			
6	TRIN	eP	21.15.47		2.1°	
		iS	21.16.09			
7	TRIN	eP	15.01.33			
7	ST. VIN	eP	18.19.30			
7	ST. VIN	e	18.25.19			
7	TRIN	iP	19.16.26		1.3°	
		iS	19.16.39			
	ST. VIN	e	19.16.46			
8	TRIN	eP	03.12.00		22.8°	USCGS gives H: 03.06.50
						E: 2.6° S
						81.0° W
						Depth about 25 km.
8	TRIN	eP	04.27.02		21.8°	Several injured and extensive property damage in Southern Chimbarazo Province.
						USCGS Gives H: 04.22.09
						E: 2.2°S 79.2°W
						Depth: About 25 km.
8	TRIN	eP	04.51.56		21.8°	USCGS gives H: 04.47.02
						E: 2.1° S
						79.1° W
						Depth about 24 km.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
APR 8	TRIN	eP	09.08.42		21.8°	USCGS gives H: 09.03.49 E: 2.1°S 79.1°W Depth: About 24 km.
8	TRIN	iP	11.56.14		1.4°	
		iS	11.56.28			
8	TRIN	iP	14.24.51		0.8°	
		iS	14.24.59			
	ST. VIN	e	14.25.15			
8	TRIN	eP	18.08.38		49.7°	USCGS gives H: 17.59.47 E: 38.2°S 72.7°W Depth: About 60 km.
	ST. VIN	eP	18.08.57		52.5°	
	BARB	e	18.10.01		52.7°	
8	TRIN	eP'_2	21.56.03		143.5°	USCGS gives H: 21.36.42 E: 14.8°N 145.1°E Depth: About 105 km.
		e	21.56.31			
9	TRIN	eP	14.54.46			
9	TRIN	iP	21.59.13		1.5°	
		iS	21.59.29			
	ST. VIN	eP	21.59.45		3.7°	Small.
10	TRIN	iP	05.49.29		0.7°	
		iS	05.49.36			
11	TRIN	iP	01.13.42		1.8°	
		iS	01.14.00			
11	TRIN	eP	07.37.19		4.6°	
		eS	07.38.07			
11	TRIN	iP	09.58.25		1.3°	
		iS	09.58.38			
11	TRIN	iP	14.13.18			
11	TRIN	iP	18.09.29		0.9°	

1961		ASE	TIME G.M.T.	MOTION	DISTANCE	
APR 11	TRIN	iP	20.10.01		0.6°	
		iS	20.10.07			
12	TRIN	iP	03.04.40		1.2°	
		iS	03.04.53			
	ST. VIN	eP	03.05.02		2.9°	
		iS	03.05.32			
12	TRIN	eP	10.45.03		09.8°	USCGS gives H: 10.42.44 E: 18.8°N 67.3°W Depth: About 74 km.
	ANT	e	10.45.03		05.5°	
12	TRIN	eP	11.39.44		12.5°	USCGS Gives H: 11.36.14 E: 6.9°N 73.5°W Depth: About 35 km.
		iPP	11.39.51			
12	TRIN	iP	12.02.12		1.3°	
		iS	12.02.25			
12	ST. KIT	eP	22.25.54		25.8°	Minor damage at El. Salvador and southern El Salvador. 722 H/S USCGS Gives H: 24.20.34 E: 13.1°N 88.9°W Depth: About 122 km.
		eIP	22.26.15			
		ePCS	22.53.00			
	ANT	eP	22.26.05		26.5°	
	TRIN	eP	22.26.06		27.3°	
		ePCP	22.29.31			
		eSCP	22.33.04			
	ST. VIN	eP	22.26.(13)		27.2°	
12	ST. VIN	eP	22.45.52			
13	ST. VIN	eP	06.25.55		2.7°	
	TRIN	eP	06.26.03		3.2°	
		eS	06.26.37			
13	ANT	iP	12.43.09		0.9°	
	ST. KIT	iP	12.43.24		2.0°	
		iS	12.43.45			

			TIME G.M.T.	MOTION	DISTANCE	
APR14	TRIN	eP	01.29.30			
14	ANT	iP	02.47.26	c	2.36°	H: 02.46.52 E: 15.5° N 60.7° W Depth about 150 km. Magnitude 4.9
	V	iS	02.47.48			
	ST. VIN	iP	02.47.31	c	2.77°	
	ST. KIT	iP	02.47.34		2.97°	
		eS	02.48.04			
14	TRIN	eP	17.20.20		1.0°	
		iP	17.20.22			
		iS	17.20.30			
15	TRIN	iP	09.43.09		1.3°	
		iS	09.43.22			
15	ANT	iP	10.05.51		0.8°	
		iS	10.06.00			
	ST. KIT	eP	10 06.58		1.4°	
		iS	10.06.12			
16	ANT	eP	07.02.19			
	ST. KIT	eP	07.02.20			
16	TRIN	iP	08.58.09		1.6°	
		iS	08.58.25			
16	ANT	eP.	10.27.03			
16	TRIN	eP.	21.15.15		1.6°	
		iS	21.15.32			
17	TRIN	iP	09.52.26		1.7°	
		iS	09.52.43			
17	TRIN	eP	10.14.22		1.2°	
		iS	10.14.35			
	ST. VIN	eP	10.14.32		1.9°	

1961		SE	TIME G.M.T.	MOTION	DISTANCE	
APR17	ST. KIT	eP	14.30.44		1.5°	
		iS	14.30.59			
	ANT	eP	14.30.54		2.5°	
		iS	14.31.19			
17	TRIN	eP	14.41.23		1.4°	
		eS	14.41.37			
17	TRIN	iP	20.29.41		1.2°	
		iS	20.29.54			
17	TRIN	eP	20.41.30		32.2°	USCGS gives H: 20.35.15 E: 20.8° S 68.5° W Depth about 200 km.
	ST. VIN	eP	20.41.51			
18	TRIN	iP	08.04.37		1.8°	
		iS	08.04.56			
18	ANT	iP	10.45.58		2.34°	H: 10.45.25 E: 16.0° N 59.9° W Depth about 100 km. Magnitude 4.4
		iS	10.46.22			
	ST. KIT	iP	10.46.09		3.14°	
	ST. VIN	iP	10.46.11		3.27°	
		iS	10.46.44			
	TRIN	eP	10.46.44		5.64°	
19	TRIN	iP	10.30.08		1.3°	
		iS	10.30.21			
19	TRIN	eP	13.29.43			
20	TRIN	eP	06.57.05			
20	ANT	eP	23.57.29			
	ST. KIT	eP	23.57.40			
21	TRIN	iP	17.41.27		1.2°	
		iS	17.41.40			

			TIME G.M.T.	MOTION	DISTANCE	
1961						
APR21	TRIN	eP	18.50.08			
		i	18.50.15			
21	TRIN	iP	20.39.22			
22	TRIN	e	00.49.38			
22	ST. KIT	iP	04.19.02		2.3°	
		iS	04.19.26			
	ANT	eP	04.19.11		2.8°	
22	TRIN	iP	08.54.24		1.9°	
		iS	08.54.44			
22	TRIN	e	11.34.41			
22	ANT	iP	14.26.(07)		(1.4°)	
	ST. KIT	iP	14.26.12		1.7°	
		iS	14.26.30			
22	TRIN	eP	18.17.51		1.3°	
		iS	18.18.04			
22	TRIN	iP	18.50.11		0.8°	
		iS	18.50.19			
22	TRIN	eP	19.06.43		23.4°	USCGS gives H: 19.01.34 E: 2.8° S 80.8° W Depth about 30 km.
22	GREN	iP	21.19.24		1.3°	
		iS	21.19.37		1.2°	
	TRIN	iP	21.19.24			
		iS	21.19.36			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
APR22	TRIN	iP	23.05.12		1.3°	
		iS	23.05.26			
	GREN	eP	23.05.18		1.8°	
		iS	23.05.37			
23	TRIN	iP	02.52.32		1.1°	
		iS	02.52.44			
	GREN	iP	02.52.37		1.6°	
		iS	02.52.54			
23	TRIN	eP	07.27.36			
		i	07.27.42			
24	ANT	eP	05.51.35		2.1°	
		eS	05.51.56			
25	TRIN	eP	09.44.23			
		e	09.46.07			
25	ANT	iP	22.12.(51)	d	.98°	H: 22.12.40 E: 18.0 ° N 61.4° W Magnitude 5.8
		iS	22.12.(58)			
	ST. KIT	iP	22.13.00	d	1.43°	
		iS	22.13.15			
	ST. VIN	eP	22.13.48		4.85°	
	TRIN	eP	22.14.23		7.37°	
25	ANT	eP	23.13.(15)		(1.0°)	
	ST. KIT	eP	23.13.25		1.7°	
		iS	23.13.42			
26	ANT	eP	00.19.(58)			
	ST. KIT	eP	00.20.06			
26	ANT	eP	02.23.(01)			
	ST. KIT	eP	02.23.09			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
APR26	ANT	iP	03.28.(11)		(1.1°)	
		iS	03.28.(20)			
	ST. KIT	iP	03.28.20		1.7°	
		iS	03.28.38			
	ST. VIN	eP	03.29.09		5.3°	
27	TRIN	e	18.06.48			
28	ANT	iP	06.10.20		1.1°	
		iS	06.10.30			
	ST. KIT	iP	06.10.25		1.5°	
28	ST. VIN	eP	12.59.30			
28	ST. VIN	eP	14.15.02			
29	TRIN	e	01.14.44			
	GREN	eP	01.15.43		1.6°	
		iS	01.16.00			
29	TRIN	eP	08.07.31		1.2°	
		iS	08.07.44			
	GREN	eP	08.07.43		2.0°	
29	TRIN	iP	23.18.36			
30	TRIN	eP	07.42.35		47.8°	USCGS gives H: 07.33.54 E: 52.0° N 31.9° W Depth about 38 km.
30	TRIN	iP	20.04.10			
30	ST. KIT	iP	21.11.06		0.3°	
		iS	21.11.10			

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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Trinidad, West Indies.

MAY 1961

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STATIONS REPORTING

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GRENADA	(GREN)	LAT.	12°	02.7'	N	LONG.	61°	44.1'	W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13°	10.2'	N	LONG.	61°	15.5'	W	10m.
BARBADOS	(BARB)	LAT.	13°	07.4'	N	LONG.	59°	35.6'	W	70m
DOMINICA	(DOM)	LAT.	15°	17.7'	N	LONG.	61°	23.5'	W	40m
ANTIGUA	(ANT)	LAT.	17°	08.6'	N	LONG.	61°	50.1'	W	27m
ST. KITTS	(ST. KIT)	LAT.	17°	20.3'	N	LONG.	62°	43.7'	W	

EQUIPMENT

All stations are equipped with Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

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From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAY 1	TRIN	iP	08.52.01		0.8°	
		iS	08.52.09			
	GREN	eP	08.52.07		1.4°	
		iS	08.52.21			
1	ST. VIN	eP	17.05.09			
		i	17.05.12			
2	TRIN	iP	06.30.46		1.2°	
		iS	06.30.58			
	GREN	iP	06.30.48		1.4°	
		iS	06.31.02			
2	TRIN	iP	08.46.26		1.2°	
		iS	08.46.38			
2	TRIN	eP	20.19.52			
2	TRIN	e	23.14.31			
3	ST. VIN	eP	16.27.51			
3	ST. VIN	eP	17.06.30			
4	ST. KIT	eP	00.12.55			
	ANT	e	00.13.02			
4	TRIN	iP	00.28.02		1.2°	
		iS	00.28.14			
4	TRIN	eP	06.50.20			Small.
4	ANT	eP	07.04.00		14.5°	USCGS gives H: 07.00.33 E: 17.7° N 46.4° W
	ST. VIN	eP	07.04.07		14.9°	
	ST. KIT	eP	07.04.13		15.6°	Depth about 19 km.
	DOM	eP	07.04.(15)		14.6°	
	GREN	eP	07.04.17		15.8°	
	TRIN	eP	07.04.22		16.0°	

			BE	TIME G.M.T.	MOTION	DISTANCE
MAY 4	DOM		eP	07.18.(16)		
	ANT		eP	07.18.39		
	ST. VIN		e	07.18.55		
4	DOM		eP	07.33.(17)		
	ANT		e	07.33.33		
	ST. VIN		eP	07.33.53		
4	ST. KIT		iP	10.38.20	1.0°	
			iS	10.38.31		
4	TRIN		eP	20.26.00	24.9°	USCGS gives H: 20.20.37 E: 5.1°S 81.0°W Depth: About 49 km.
5	DOM		eP	00.43.25	0.88°	H: 00.43.13 E: 15.0° N 60.5° W Magnitude 5.2
	ST. VIN		iP	00.43.40	2.00°	
	ANT		eP	00.43.(47)	2.48°	
	ST. KIT		eP	00.43.57	3.13°	
	GREN		eP	00.43.59	3.21°	
	TRIN		eP	00.44.(19)	4.45°	
5	TRIN		iP	06.19.20	1.1°	
			iS	06.19.32		
	GREN		iP	06.19.25	1.7°	
			iS	06.19.42		
5	TRIN		iP	08.30.48	0.7°	
			iS	08.30.56		
	GREN		eP	08.30.57	1.3°	
			iS	08.31.10		
5	GREN		eP	12.42.45	1.6°	
			iS	12.43.02		

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAY 5	ST. KIT	iP	20.32.31		0.7°	
		iS	20.32.38			
	DOM	e	20.33.(12)			
7	GREN	eP'	00.45.03		143.9°	USCGS gives H: 00.25.41 E: 6.1° S 154.4°E
	ST. VIN	eP'	00.45.04		144.2°	Depth: About 123 km.
	TRIN	eP'	00.45.06		144.3°	
	DOM	eP'	00.45.(06)		144.0°	
	BARB	eP'	00.45.11		145.7°	
7	TRIN	eP	04.52.18			
7	TRIN	iP	07.58.26		1.2°	
		iS	07.58.38			
7	GREN	eP	08.59.35		1.1°	
		eS	08.59.46			
	TRIN	eP	08.59.54		2.5°	Very Small.
7	TRIN	eP'	10.42.42		161.7°	USCGS gives H: 10.22.44 E: 5.8° N126.8°E
	ST. KIT	eP'	10.42.48		155.6°	Depth: About 89 km.
	DOM	eP'	10.43.(08)		157.4°	
7	ST. VIN	e	12.28.21			
	TRIN	eP	12.28.36			
7	DOM	e	12.42.(15)			
	ST. VIN	e	12.42.41			
7	DOM	eP	12.52.(59)			
	ST. KIT	eP	12.53.11			
7	ST. VIN	eP	13.25.28		14.1°	USCGS gives H: 13.22.05 E: 16.0° N 46.9°E
	TRIN	eP	13.25.40		15.0°	Depth: About 39 km.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAY 7	TRIN	eP	13.38.46		0.9°	
		iS	13.38.56			
	DOM	e	13.39.(22)			
7	TRIN	e	15.10.33			Small.
7	GREN	iP	19.01.35		1.2°	
		iS	19.01.48			
	TRIN	eP	19.01.47		2.1°	
		iS	19.02.09			
7	TRIN	iP	22.10.52		1.7°	
		iS	22.11.10			
8	TRIN	e	19.42.27			
9	TRIN	iP	04.46.32		1.3°	
		iS	04.46.46			
	GREN	eP	04.46.36		1.7°	
		iS	04.46.54			
10	TRIN	iP	03.43.48		0.9°	
		iS	03.43.57			
10	TRIN	eP	08.58.17		0.7°	USCGS gives H: 08.55.59 E: 9.1°N 71.1°W Depth: About 50 km.
10	TRIN	e	10.57.41			
11	TRIN	iP	04.59.10		1.11°	H: 04.58.54 E: 11.4° N 60.5° W Magnitude 4.5
		iS	04.59.21			
	GREN	iP	04.59.13		1.37°	
		iS	04.59.28			
	ST. VIN	eP	04.59.22		1.95°	
		e	04.59.47			

MAY11	TRIN	eP	08.47.14	49.1°	USCGS gives H: 08.38.27 E: 37.2°SS 73.6°W Depth: About 47 km.
		e	09.10.25		
		L	09.23.00		
	GREN	eP	08.47.24	50.4°	
	ST. VIN	eP	08.47.31	51.6°	
	ST. KIT	eP	08.47.58	55.1°	
12	TRIN	iP	00.21.33	0.6°	
		iS	00.21.39		
12	GREN	eP	01.45.25	1.5°	
		iS	01.45.40		
	TRIN	eP	01.45.28	1.6°	
		iS	01.45.45		
12	ST. KIT	iP	02.00.08		
12	TRIN	eP	02.59.11	1.3°	
		iS	02.59.24		
	GREN	eP	02.59.15	1.7°	
		iS	02.59.32		
12	ST. KIT	iP	08.23.40	1.2°	
		iS	08.23.52		
12	TRIN	iP	15.51.29	0.8°	
		iS	15.51.37		
12	ST. VIN	eP	18.05.27	1.3°	
		iS	18.05.40		
13	TRIN	eP'	19.38.44	144.0°	USCGS gives H: 19.19.37 E: 25.3°N 122.6°E Depth: About 261 km.

1961		SE	TIME G.M.T.	MOTION	DISTANCE	
MAY14	DOM	eP	04.42.(46)			
14	TRIN	eP	16.50.52		1.1°	
		iS	16.51.04			
	GREN	eP	16.50.53		1.2°	
		i	16.51.10			
14	TRIN	iP	21.20.49		2.41°	H: 21.20.15 E: 9.1° N 63.3° W Magnitude 5.9
		iS	21.21.13			
	GREN	eP	21.21.02		3.32°	
		iS	21.21.36			
	ST.VIN	eP	21.21.19		4.54°	
		iS	21.22.06			
	ST. KIT	eP	21.22.11		8.29°	
15	DOM	iP	02.01.(46)	d	0.2°	
		iS	02.01.(48)			
16	ST. KIT	eP	03.40.30		2.7°	
		eS	03.40.57			
17	TRIN	iP	13.19.52		1.4°	
		iS	13.20.07			
	GREN	iP	13.19.57	c	1.8°	
		iS	13.20.15			
17	ANT	iP	18.29.21		0.8°	
	ST. KIT	iP	18.29.30		1.4°	
		iS	18.29.44			
17	ANT	iP	19.19.07		0.1°	
	ST. KIT	iP	19.19.27		1.5°	
		iS	19.19.42			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAY17	TRIN	eP	19.37.22		1.5°	
		iP	19.37.24			
		iS	19.37.38			
	GREN	eP	19.37.27		2.0°	
		iS	19.37.47			
17	DOM	eP	21.01.(34)		1.82°	H: 21.01.13 E: 15.8° N 59.6° W Magnitude: 5.4.
		iS	21.01.(58)			
	ANT	eP	21.01.49		2.57°	
		iS	21.02.15			
	ST. VIN	ep	21.01.57		3.08°	
		iS	21.02.28			
	ST. KIT	eP	21.02.01		3.41°	
19	ANT	eP	05.51.19			
	ST. KIT	iP	05.51.27			
19	ST. KIT	iP	08.33.39			
19	ST. KIT	eP	09.31.00		25.6°	USCGS gives H: 09.25.27 E: 11.3°N 88.3°W Depth: About 34 km
	TRIN	eP	09.31.11		26.7°	
	DOM	eP	09.31.(23)		26.5°	
19	TRIN	eP	15.57.02			
19	TRIN	eP	18.25.37		1.1°	
		iS	18.25.48			
19	ANT	iP	21.53.40		0.79°	H: 21.53.29 E: 16.9° N 61.1° W Magnitude: 5.2
		iS	21.53.48			
	DOM	eP	21.53.(51)		1.60°	
	ST. KIT	iP	21.53.53		1.66°	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAY20	ST. KIT	iP	12.07.08			
21	TRIN	eP	17.46.37		24.0°	USCGS gives H: 17.41.28 E: 3.1°S 80.9°W Depth: About 27 km.
21	TRIN	iP	19.10.32		0.5°	
		iS	19.10.37			
21	DOM	eP'	21.59.42		145.6°	Minor damage in Sydney USCGS Gives H: 21.40.03 E: 34.5°S 150.4°E Depth: About 27 km
	ST. KIT	eP'	21.59.43		145.8°	
		iP'2	21.59.4			
	ANT	eP'2	21.59.45		146.3°	
		iP'2	21.59.48			
22	ANT	iP	01.31.(03)			
	ST. KIT	iP	01.31.13			
22	GREN	eP.	03.41.30			
		i	03.41.38			
22	ANT	iP	04.13.(54)		(1.1°)	
	ST. KIT	iP	04.13.59		1.5°	
		iS	04.14.14			
22	TRIN	iP	04.33.22		1.3°	
		iS	04.33.36			
	GREN	eP	04.33.24		1.6°	
		iS	04.33.41			
22	TRIN	iP	10.36.29		1.3°	
		iS	10.56.42			
	GREN	eP	10.36.31		1.5°	
		iS	10.36.47			

1961			TIME G.M.T.	MOTION	DISTANCE	
MAY22	ST. VIN	eP	12.53.22		1.6°	
		eS	12.53.38			
22	TRIN	eP	14.17.56			Small.
22	TRIN	iP	15.04.38		1.33°	H: 15.04.19 E: 10.8° N 62.6° W Depth about 50 km. Magnitude 4.7
		iS	15.04.51			
	GREN	iP	15.04.42.		1.60°	
		iS	15.04.58			
	ST. VIN	eP	15.04.59		2.77°	
22	TRIN	iP	18.11.46		0.7°	
		iS	18.11.53			
22	TRIN	eP	22.55.51		0.6°	
		iS	22.55.58			
	GREN	eP	22.55.59		1.2°	Very Small.
23	ANT	eP	02.57.(26)		79.9°	Moderate property damage in Rodes area and south western Turkey. USCGS gives H: 02.45.16 E: 36.4° N 28.3° E Depth: About 49 km.
	ST. KIT	eP	02.57.28		80.2°	
	DOM	eP	02.57.(29.)		80.5°	
	ST. VIN	eP	02.57.32		81.8°	
	GREN	eP	02.57.41		83.1°	
	TRIN	eP	02.57.46		83.5°	
23	ST. KIT	eP	03.45.13		22.0°	USCGS gives H: 03.40.26 E: 9.8°N 28.3°E Depth: About 136 km.
		t	04.07.29			
	GREN	eP	03.45.14		22.1°	
	TRIN	eP	03.45.15		22.4°	
	ST. VIN	eP	03.45.21		22.7°	
	DOM	eP	03.45.(21)		22.9°	
		t	04.08.(34)			
	ANT	eP	03.45.(21)		23.0°	
		t	04.07.55			
	BARB	eP	03.45.35		24.2°	

			TIME G.M.T.	MOTION	DISTANCE	
MAY23	ST. KIT	eP	03.47.58			
		t	04.10.25			
	TRIN	eP	03.47.58			
		iP	03.47.59			
	GREN	eP	03.47.58			
	ST. VIN	eP	03.48.02			
		t	04.09.47			
	ANT	eP	03.48.(05)			
		t	04.11.27			
	DOM	eP	03.48.(14)			
		t	04.11.(17)			
	BARB	eP	03.48.19			
23	TRIN	e	03.57.08			Small.
23	ST. KIT	e	04.19.03			
	DOM	e	04.20.(10)			
23	ST. VIN	eP	15.55.28			
23	ST. KIT	iP	16.50.06		24.4°	Felt at Managua and south eastern El. Salvador. USCGS gives H: 16.44.59 E: 12.6° 87.3° W Depth: About 138 km.
	GREN	eP	16.50.15		25.0°	
	TRIN	eP	16.50.16		25.4°	
		iP	16.50.19			
		eS	16.54.37			
		l	16.59.00			
	ANT	eP	16.50.(17)		25.1°	
	DOM	eP	16.50.(17.)		25.3°	
	ST. VIN	eP	16.50.18		25.5°	
		i	16.50.39			
	BARB	eP	16.50.34		26.8°	
24	ST. VIN	eP	16.12.46		0.6°	
		eS	16.12.52			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAY25	DOM	eP	10.36.(51)			
25	TRIN	iP	21.13.29		0.87°	H: 21.13.17 E: 11.2° N 61.6° W Depth: About 75 km. Magnitude: 3.9
		iS	21.13.39			
	GREN	eP	21.13.33		1.11°	
		iS	21.13.44			
	ST. VIN	eP	21.13.46		2.13°	
26	ST. KIT	eP	05.12.11		28.3°	USCGS gives H: 05.06.27 E: 15.4°N 91.9°W Depth: About 123 km.
	ANT	eP	05.12.(18)		29.0°	
	DOM	eP	05.12.(22)		29.4°	
	GREN	eP	05.12.22		29.8°	
	ST. VIN.	eP	05.12.23		29.9°	
	TRIN	eP	05.12.26		30.2°	
26	TRIN	iP	05.38.36		0.7°	
		iS	05.38.42			
26	TRIN	iP	08.14.28		0.7°	
		iS	08.14.35			
26	TRIN	eP	08.46.36		22.7°	USCGS gives H: 08.42.15 E: 10.1°S 70.6°W Depth: About 678 km.
	GREN	eP	08.46.44		23.9°	
26	ST. VIN	eP	16.21.12		1.6°	
		iS	16.21.28			
26	ST. VIN	iP	18.22.43	d	1.0°	
		iS	18.22.54			
	GREN	iP	18.22.54		1.7°	
		iS	18.23.12			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAY26	TRIN	iP	19.17.38		1.2°	
		iS	19.17.51			
	GREN	eP	19.17.41		1.5°	
		iS	19.17.57			
27	DOM	eP	03.02.(50)			
27	ST. VIN	eP	13.40.28			
27	ST. VIN	eP	16.21.31			
27	ST. VIN	eP	22.14.19			
27	GREN	iP	23.33.13		0.99°	H: 23,32.59 E: 12.3° N 61.4° W Depth about 100 km. Magnitude 3.9
		iS	23.33.24			
	ST. VIN	iP	23.33.17		1.27°	
		iS	23.33.32			
	TRIN	iP	23.33.25		1.87°	
		iS	23.33.45			
28	TRIN	i	02.59.05			
28	ST. VIN	eP	07.27.49		1.5°	
		eS	07.28.04			
28	TRIN	iP	10.48.25			
29	DOM	iP	00.54.08		1.39°	H: 00.53.49 E: 15.2° N 61.1° W Depth about 150 km. Magnitude 5.2
	ST. VIN	eP	00.54.23		2.42°	
		eS	00.54.47			
	ST. KIT	iP	00.54.31		3.00°	
29	ST. KIT	iP	01.41.14		1.5°	
		iS	01.41.30			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
MAY29	GREN	eP	07.37.25		52.0°	Small.
	TRIN	e	07.37.42		50.5°	Felt Near the coast of southern Chile, Temuco and Valdivia. USCGS gives H:07.28.12 E: 39.6° 73.4° W Depth about 13 km.
29	DOM	eP	09.18.59		1.3°	
		iS	09.19.12			
	ST. KIT	eP	09.19.11		2.4°	
		iS	09.19.35			
29	TRIN	i	11.43.35			
30	TRIN	iP	04.32.19		0.2°	
		iS	04.32.20			
30	TRIN	iP	06.14.35		0.1°	
		iS	06.14.37			
30	TRIN	e	18.41.02			Small.
31	ANT	eP'	19.35.(30)		145.3°	Felt. New Britain USCGS Gives H: 19.15.57 E: 5.3°S 151.6°E Depth: About 56 km
	ST. VIN	eP'	19.35.(33)		146.5°	
	TRIN	eP'	19.35.36		146.8°	
31	TRIN	eP'	21.21.37		145.9°	Small. USCGS gives H: 21.02.10 E: 12.8°N 143.5°E Depth: About 138 km.

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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Trinidad, West Indies.

- JUN 1961

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10° 39.0' N	LONG.	61° 24.1' W	27m.
GRENADA	(GREN)	LAT.	12° 02.7' N	LONG.	61° 44.1' W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13° 10.2' N	LONG.	61° 15.5' W	10m.
BARBADOS	(BARB)	LAT.	13° 07.4' N	LONG.	59° 35.6' W	70m
DOMINICA	(DOM)	LAT.	15° 17.7' N	LONG.	61° 23.5' W	40m
ANTIGUA	(ANT)	LAT.	17° 08.6' N	LONG.	61° 50.1' W	27m
ST. KITTS	(ST. KIT)	LAT.	17° 20.3' N	LONG.	62° 43.7' W	

EQUIPMENT

All stations are equipped with Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

EPICENTRES are quoted to the first decimal place of a degree when this is justified, other wise to one half of a degree.

Depths are quoted to one kilometer and origin times to one tenth of a second.

Intensity Scale in use: Modified Mercalli Intensity Scale.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West.

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 1	ST. KIT	eP	10.04.20		6.7°	
	DOM	eP	10.04.(47)		(8.7°)	
	ST. VIN	eP	10.05.(07)		(10.1°)	
	GREN	eP	10.05.13		10.5°	
	TRIN	iP	10.05.32		11.9°	
		iS	10.07.34			
1	TRIN	iP	10.59.13		0.74°	H: 10.59.02 E: 10.6°N 60.7°W Magnitude: 5.5
		iS	10.59.21			
	GREN	iP	10.59.27		1.77°	
		iS	10.59.45			
	ST. VIN	iP	10.59.39		2.62°	
		eS	11.00.06			
1	TRIN	eP	23.57.01		0.7°	
		eS	23.57.08			
2	TRIN	e	00.16.47			
2	TRIN	e	05.42.22			
2	TRIN	eP	18.31.18		22.7°	USCGS gives H: 18.26.09 E: 2.9°S 79.9°W Depth: About 25 km.
2	TRIN	iP	19.07.02		0.9°	
		iS	19.07.11			
	GREN	eP	19.07.06		1.3°	
		iS	19.07.19			
2	ST. VIN	eP	20.11.22		1.4°	
		eS	20.11.36			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 2	TRIN	iP	22.38.23		1.2°	
		iS	22.38.36			
3	TRIN	eP'	06.14.59		146.8°	USCGS gives H: 05.55.13 E: 4.3° S 151.1° E Depth about 18 km.
3	ST. VIN	eP	16.46.28		1.5°	
	TRIN	eP	16.46.48		2.9°	
		iS	16.47.18			
3	TRIN	iP	18.32.39		0.1°	
		iS	18.32.40			
3	TRIN	eP	21.31.09		0.9°	
		iS	21.31.18			
4	TRIN	eP'	07.52.04		123.5°	USCGS gives H: 07.33.05 E: 33.8° N 81.8° E Depth ab. ut 46 km.
6	ANT	eP	00.27.16			
	ST. KIT	eP	00.27.25			
6	ANT	iP	00.34.02		1.77°	H: 00.33.38 E: 18.3° N 60.5° W
	ST. KIT	iP	00.34.12		2.37°	Depth: About 50 km. Magnitude: 5.7
		iS	00.34.34			
	DOM	eP	00.34.(14)		3.09°	
		iS	00.34.(50)			
	ST. VIN	iP	00.34.51		5.16°	
		eS	00.35.46			
	BARB	e	00.35.04		5.20°	Small
	GREN	eP	00.35.07		6.34°	
	TRIN	eP	00.35.(29)		7.65°	
		eS	00.36.47			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
JUN 7	TRIN	iP	07.05.00		1.4°	
		iS	07.05.15			
	GREN	eP	07.05.07		1.9°	
		iS	07.05.27			
7	ST. KIT	iP	07.23.(34)		1.6°	
		iS	07.23.(51)			
7	ST. VIN	eP	14.24.38		53.4°	USCGS gives H: 14.15.19 E: 5.4°S 11.6°W
	ANT	eP	14.24.49		55.0°	Depth: About 17 km.
7	ST. VIN	eP	18.15.33		1.4°	
		eS	18.15.47			
8	TRIN	iP	23.43.40		0.8°	
		iS	23.43.48			
	GREN	eP	23.43.49		1.3°	
		iS	23.44.02			
9	TRIN	eP	05.58.47		21.4°	USCGS gives H: 05.53.56 E: 0.4° N 80.3°W Depth: About 15 km.
9	ST. VIN	eP	13.24.24		1.0°	
		iS	13.24.34			
9	TRIN	eP	13.30.37			
		e	13.31.21			
9	TRIN	eP'	15.37.44		152.1°	Small USCGS Gives H: 15.17.51 E: 5.5°N 95.8°E Depth: About 100 km.

			TIME G.M.T.	MOTION	DISTANCE	
JUN	9 TRIN	iP	23.13.18		1.47°	H: 23.12.57 E: 10.6° N 62.9° W Magnitude: 5.3
		iS	23.13.32			
	GREN	iP	23.13.23		1.83°	
		iS	23.13.42			
	ST. VIN	eP	23.13.39		3.02°	
	10 ST. KIT	iP	06.21.21		0.9°	
		iS	06.21.31			
	ANT	iP	06.21.(25)		1.0°	
		iS	06.21.(36)			
	10 GREN	iP	18.03.54		1.01°	H: 18.03.40 E: 11.8° N 62.2° W Depth: About 100 km. Magnitude: (5.1)
		iS	18.04.06			
	TRIN	eP	18.04.03		1.67°	
		iP	18.04.06			
		iS	18.04.22			
	ST. VIN	eP	18.04.05		1.84°	
		iS	18.04.22			
	10 TRIN	eP	18.44.32		3.0°	
		eS	18.45.02			
	12 GREN	eP	10.17.50			
	TRIN	eP	10.17.56			
	12 ST. KIT	iP	10.53.54		1.0°	
		iS	10.54.04			
	12 ANT	iP	17.10.18		0.4°	
		iS	17.10.22			
	ST. KIT	iP	17.10.27		0.8°	
		iS	17.10.35			

1961		TIME G.M.T.	MOTION	DISTANCE	
JUN 13 ANT	iP	14.27.41		1.1°	
	iS	14.27.53			
ST. KIT	iP	14.27.47		1.6°	
	iS	14.28.03			
14 TRIN	eP'	01.00.34		138.2°	Small USCGS gives H: 00.41.10 E: 24.5°N 95.0°E Depth: About 52 km.
14 ANT	iP	01.30.11		0.7°	
	iS	01.30.19			
ST. KIT	iP	01.30.21		1.4°	
	iS	01.30.35			
14 DOM	eP	07.24.45		1.3°	
	iS	07.24.58			
ST. KIT	e	07.25.09			
ST. VIN	e	07.25.14			
14 ST. VIN	eP	17.53.42		0.7°	
	iS	17.53.50			
15 TRIN	eP	00.54.21		11.8°	USCGS gives H: 00.51.32 E: 6.8°N 73.0°W Depth: About 198 km.
	i	00.54.28			
GREN	eP	00.54.29		12.0°	
15 TRIN	iP	05.48.10		0.6°	
	iS	05.48.16			
16 GREN	eP	07.17.47			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 16	TRIN	iP	07.19.59		1.35°	H: 07.19.40 E: 11.1° N 62.3° W Depth: About 100 km Magnitude: 4.8
		iS	07.20.11			
	GREN	iP	07.20.00	d	1.42°	
		iS	07.20.13			
	ST. VIN	iP	07.20.15	d	2.49°	
		iS	07.20.44		°	
	DOM	e	07.20.44		4.38°	
	ST. KIT	eP	07.21.09		6.31°	
16	TRIN	iP	10.34.45		12.0°	Felt at Barrancabermeja; Maracaibo, Venezuela. USCGS gives H: 10.31.56 E: 8.8°N 73.4°W Depth: About 120 km.
		i	10.37.14			
	GREN	iP	10.34.45		11.9°	
		i	10.36.57			
	ST. VIN	iP	10.34.53		12.5°	
	DOM	iP	10.35.01		13.5°	
	ST. KIT	iP	10.35.03		13.6°	
	BARB	eP	10.35.16		13.9°	
		iP	10.35.20			
		i	10.38 02			
16	DOM	e	10.55.(11)			
	ST. VIN	eP	10.55.29			
16	TRIN	iP	18.27.18		1.27°	H: 18.27.00 E: 10.9° N 62.3° W Depth: About 100 km Magnitude: 4.4
		iS	18.27.31			
	GREN	iP	18.27.22		1.53°	
		iS	18.27.38			
	ST. VIN	eP	18.27.37		2.61°	
		eS	18.28.04			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 17	ST. VIN	eP	03.05.35		1.2°	
		eS	03.05.47			
	GREN	eP	03.05.50		2.1°	
		eS	03.06.12			
17	ANT	iP	04.15.27		1.18°	H: 04.15.11 E: 18.3° N 61.5° W Magnitude: (5.4)
		iS	04.15.41			
	ST. KIT	iP	04.15.32		1.48°	
		iS	04.15.46			
	DOM	eP	04.15.54		3.00°	
17	ANT	eP	05.29.05			
	ST. KIT	iP	05.29.09			
17	GREN	eP	11.02.10			
	TRIN	eP	11.02.23			
		e	11.10.13			
		e	11.12.35			
	ST. VIN	eP	11.02.39			
17	TRIN	eP	15.16.37			
		L	15.23.			
18	ST. KIT	eP	00.43.09			
	ANT	eP	00.43.(22)			
	TRIN	eP	00.44.36			Small
18	TRIN	eP	03.31.36			
		e	03.33.10			
18	TRIN	iP	14.13.21			
	ST. KIT	e	14.13.24			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 18	TRIN	iP	14.47.27		0.9°	
		iS	14.47.36			
	GREN	eP	14.47.31		1.5°	
		iS	14.47.47			
18	ANT	iP	16.00.(41)		(1.5°)	
	ST. KIT	eP	16.00.54		2.4°	
		eS	16.01.18			
18	ST. VIN	e(P)	20.15.(16)		1.2°	
		eS	20.15.(28)			
18	ANT	eP	21.13.(15)			
19	ST. KIT	iP	01.46.48		2.05°	H: 01.46.19 E: 17.7° N 64.8° W
	ANT	eP	01.47.00		2.92°	Magnitude: 5.5.
	DOM	eP	01.47.16		4.09°	
	TRIN	eP	01.48.09		7.79°	Small.
19	ST. VIN	e	01.52.(46)			
		e	01.53.(18)			
19	ANT	eP'	02.05.(14)		148.0°	USCGS gives H: 01.45.30 E: 12.6° N 121.9° E
	ST. KIT	eP'	02.05.14		147.7°	Depth about 120 km.
	DOM	eP'	02.05.20		149.8°	
19	TRIN	eP	09.00.03			
		e	09.00.21			
	ST. KIT	e	09.01.26			
21	ST. KIT	eP	04.02.49		23.4°	USCGS gives H: 03.57.44 E: 15.3° N 87.3° W
	GREN	eP	04.03.03		24.7°	Depth about 114 km.

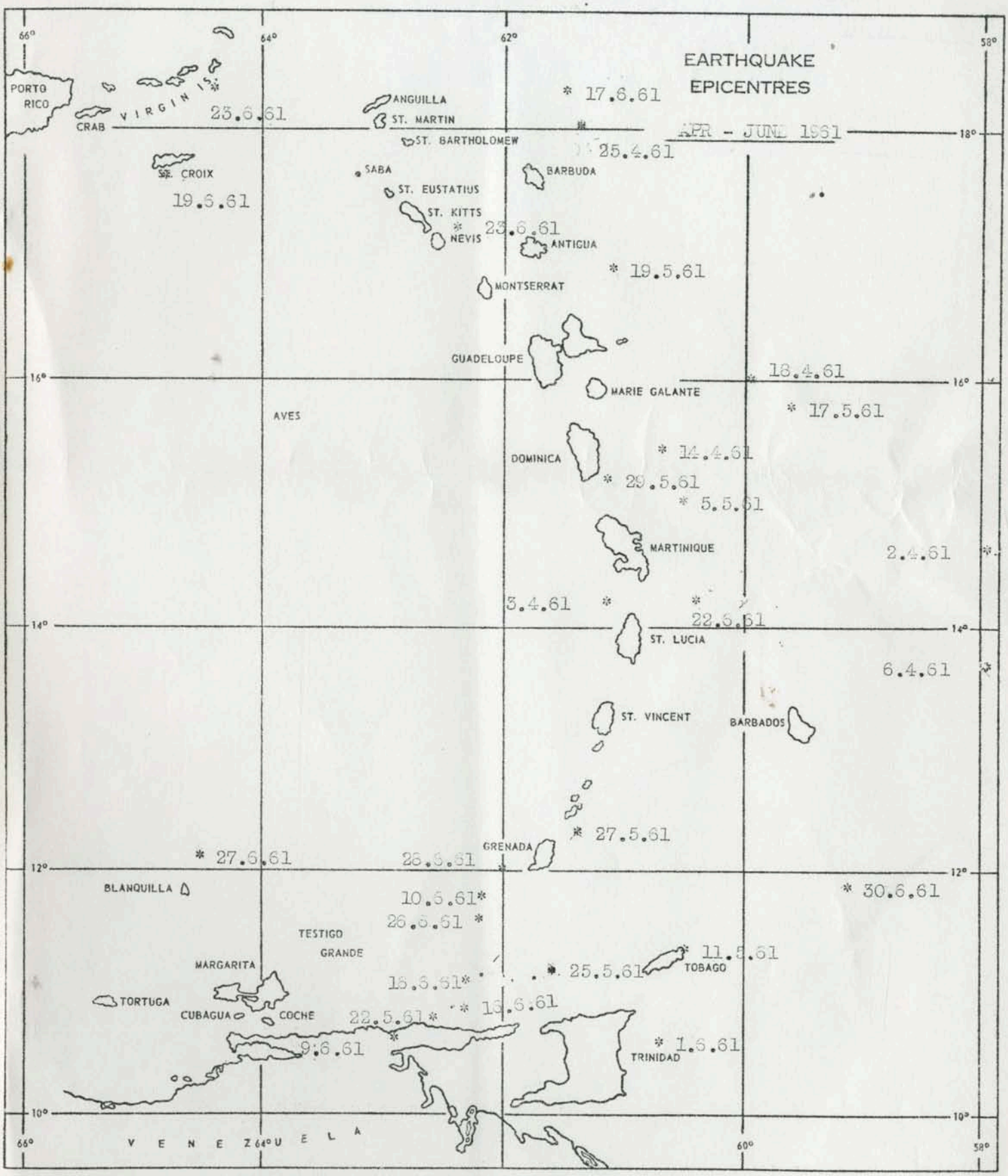
DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 21	DOM	eP	04.17.57		1.7°	
		eS	04.18.14			
	ST. VIN	e	04.18.(31)			
		e	04.18.(45)			
21	TRIN	iP	18.48.21		0.5°	
		iS	18.48.26			
21	TRIN	eP'	20.44.57		171.1°	USCGS gives H: 20.25.01 E: 7.6° S 110.0° E Depth about 163 km.
22	TRIN	iP	12.01.16		1.2°	
		iS	12.01.28			
22	ST. VIN	iP	22.39.09		1.31°	H: 22.38.50 E: 14.2° N 60.4° W Depth: About 50 km. Magnitude: 4.4
		iS	22.39.23			
	DOM	eP	22.39.(21)		1.53°	
		eS	22.39.44			
	GREN	eP	22.39.26		2.50°	
	TRIN	eP	22.39.42		3.70°	
	ANT	e	22.39.(47)		3.29°	
	ST. KIT	e	22.39.56		3.89°	
23	ST. KIT	eP	02.26.49			
	ANT	eP	02.26.(53)			
23	TRIN	iP	02.32.38		1.3°	
		iS	02.32.51			
	GREN	eP	02.32.41		1.6°	
		iS	02.32.58			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 23	ST. KIT	eP	02.58.04		0.33°	H: About 02.58.00 E: About 17.2°N 62.4°W Magnitude: 5.2
	ANT	eP	02.58.(12)		0.56°	
	DOM	e	02.58.35		2.14°	
	ST. VIN	e	02.59.(03)		4.17°	
	GREN	eP	02.59.11		5.18°	
	TRIN	eP	02.59.34		6.60°	
23	ST. KIT.	iP	03.04.07		1.90°	H: 03.03.40 E: 18.3°N 64.4°W Magnitude: 5.7
	ANT	eP	03.04.(15)		2.75°	
	ST. VIN	e	03.04.(26)		6.00°	
	DOM	eP	03.04.39		4.22°	
	GREN	eP	03.05.13		6.80°	
	TRIN	eP	03.05.36		8.22°	
23	ST. KIT	eP	06.11.20			
	TRIN	eP	06.12.28			
		e	06.14.35			
23	TRIN	eP	09.06.45		66.3°	USCGS gives H: 08.55.55 E: 43.9° N 128.9° W Depth: About 50 km.
23	TRIN	eP	09.33.33		66.0°	USCGS gives H: 09.22.50 E: 43.9° N 128.8° W Depth: About 53 km.
23	ST. KIT	iP	17.30.56		1.0°	
		iS	17.31.07			
	ANT	eP	17.31.(05)		1.6°	
		iS	17.31.(21)			
24	TRIN	iP	13.54.36		1.1°	
		iS	13.54.47			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 24	TRIN	e	18.43.09			
25	TRIN	iP	02.28.48		1.4°	
		iS	02.29.03			
25	TRIN	eP	11.01.21			
26	DOM	eP	03.06.29		0.4°	
		eS	03.06.33			
26	GREN	iP	08.44.46		1.30°	H: 08.44.27 E: 11.6° N 62.2° W Depth: About 135 km. Magnitude: 4.0
		iS	08.45.01			
	TRIN	iP	08.44.50		1.63°	
		iS	08.45.06			
	ST. VIN	eP	08.44.58		2.17°	
26	TRIN	e	09.52.32			
26	TRIN	eP	16.46.41		12.6°	USCGS gives H: 16.43.41 E: 11.2° N 74.5° W Depth about 89 km.
27	TRIN	iP	01.56.43		1.1°	
		iS	01.56.54			
	GREN	eP	01.56.49		1.6°	
		iS	01.57.05			
27	TRIN	eP	03.12.44		23.0°	USCGS gives H: 03.07.48 E: 8.5° S 74.4° W Depth about 170 km.
	GREN	eP	03.12.53		23.9°	
	ST. VIN	eP	03.13.04		25.3°	
	BARB	eP	03.13.14		26.1°	
	ANT	eP	03.13.(30)		27.9°	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 27	TRIN	eP'	07.23.07		137.4°	USCGS gives H: 07.03.42 E: 27.8° N 99.4° E Depth: About 33 km.
27	GREN	eP	07.46.11		2.71°	H: 07.45.33 E: 12.1° N 64.5° W Magnitude: 5.7
	ST. VIN	eP	07.46.20		3.36°	
		e	07.46.37			
	TRIN	eP	07.46.21		3.37°	
		i	07.46.39			
27	TRIN	iP	20.23.24			
28	GREN	iP	09.11.45		1.5°	
		iS	09.12.00			
	TRIN	iP	09.11.47		1.5°	
		iS	09.12.03			
28	GREN	eP	13.22.11		1.03°	H: 13.21.56 E: 12.0° N 62.0° W Depth: About 110 km. Magnitude: 3.4
		iS	13.22.22			
	ST. VIN	eP	13.22.19		1.70°	
		eS	13.22.36			
	TRIN	eP	13.22.21		1.75°	
28	ST. VIN	eP	17.04.55			
28	TRIN	eP	18.05.37			
		i	18.05.43			
		e	18.08.06			
29	ANT	eP	02.28.(23)		2.5°	
		iS	02.28.(49.)			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
JUN 29	TRIN	iP	03.55.12		1.8°	
		iS	03.55.31			
	GREN	e	03.55.29			
29	TRIN	eP'	09.42.13		133.8°	USCGS gives H: 09.22.56 E: 13.8° S 166.0° E Depth: About 37 km.
		ePKS	09.45.43			
29	TRIN	e	18.03.56			Small
	ST. VIN	eP	18.03.56			
29	TRIN	eP	22.13.55			Small
30	BARB	e	16.42.25		1.34°	H:16.41.57 E: 11.9°N 59.1°W Magnitude: 6.0
	ST. VIN	iP	16.42.31	d	2.46°	
		iS	16.42.58			
	TRIN	iP	16.42.33		2.57°	
		iS	16.42.57			
	GREN	iP	16.42.33	c	2.57°	
		iS	16.43.00			
	DOM	e(P)	16.42.(59)		4.07°	
		eS	16.43.(43)			
	ANT	eP	16.43.(20)		5.87°	
30	BARB	eP	23.17.06		3.81°	H: 23.16.09 E: 16.8°N 58.5°W Magnitude: 6.1
	DOM	e	23.17.23		3.17°	
	GREN	eP	23.17.29		5.69°	
	TRIN	eP	23.17.44		6.76°	



UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Regional Research Centre,

Trinidad, West Indies.

Jul 1961

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10°	39.0'	N	LONG.	61°	24.1'	W	27m.
GRENADA	(GREN)	LAT.	12°	02.7'	N	LONG.	61°	44.1'	W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13°	10.2'	N	LONG.	61°	15.5'	W	10m.
ST. LUCIA	(ST. LUC)	LAT.	14°	01.7'	N	LONG.	61°	00.5'	W	30m.
BARBADOS	(BARB)	LAT.	13°	07.4'	N	LONG.	59°	35.6'	W	70m.
DOMINICA	(DOM)	LAT.	15°	17.7'	N	LONG.	61°	23.5'	W	40m.
ANTIGUA	(ANT)	LAT.	17°	08.6'	N	LONG.	61°	50.1'	W	27m.
ST. KITTS	(ST. KIT)	LAT.	17°	20.3'	N	LONG.	62°	43.7'	W	

EQUIPMENT

Trinidad is equipped with three components of Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

All other stations have similar equipment recording vertical component only.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

Intensity Scale in use: Modified Mercalli Intensity Scale.

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1	ANT.	iP iS	06.40.(41) 06.40.(52)		1.1°	
1	TRIN	eP L	13.16.38 13.26		29.2°	USCGS Gives H: 13.10.47 E: 15.3° S 75.0° W Depth: About 146 km.
1	TRIN	iP iS	21.56.01 21.56.07		0.6°	
2	TRIN	iP iS	04.27.37 04.27.45		0.7°	
2	ST. KIT	eP iS	14.40.(42) 14.40.(45)		0.3°	
2.	TRIN	e	21.29.32			Small
3	TRIN	eP	08.31.13		23.5°	USCGS Gives H: 08.26.11 E: 3.3° S 80.5° W Depth: About 25 km.
3	TRIN	eP e	14.55.01 14.55.26			
	GREN	eP	14.55.07			
	ST. KIT	e	14.55.(33)			
3	ST. KIT	iP iS	21.04.20 21.04.38		1.7°	
	ANT.	eP eS	21.04.(27) 21.04.(46)		1.9°	
4	TRIN	eP'	06.30.03		140.2°	Small USCGS Gives H; 06.10.45 E: 17.9° N 146.4° E Depth: About 145 km.

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
4	ANT.	iP	15.41.(13)		0.8°	
		iS	15.41.(21)			
	ST. KIT	iP	15.41.(24)		1.3°	
		iS	15.41.(38)			
4	TRIN	iP	19.47.23		0.4°	
		iS	19.47.27			
5	DOM	iP	05.02.45	d	1.03°	H: 05.02.30
	ST. VIN	iP	05.02.58	c	2.04°	E: 15.0°N 60.4°W Depth: About 25 km Magnitude: 6.4
	BARB	eP	05.03.02		2.05°	
		iS	05.03.28			
		i	05.04.54			
	ANT.	iP	05.03.06	d	2.54°	
	ST. KIT	iP	05.03.15	d	3.23°	
	GREN	iP	05.03.16	c	3.26°	
		iS	05.03.52			
	TRIN	iP	05.03.33		4.48°	
		iS	05.04.19			
6	ANT.	e	05.54.(31)			
	ST. KIT	iP	05.54.(36)			
6	TRIN	iP	06.32.22		1.1°	
		iS	06.32.34			
	GREN	iP	06.32.23	c	1.1°	
		iS	06.32.34			
6	ST. KIT	iP	09.45.(13)			
6	TRIN	iP	16.35.17		0.9°	
		iS	16.35.26			
	GREN	eP	16.35.19		1.6°	
		iS	16.35.36			

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
6	TRIN	eP'	22.28.29		130.6°	USCGS Gives H: 22.09.31
		i	22.28.39			E: 20.0°S 169.0°E
		e	22.31.57			Depth: About 47 km
	ST. VIN	eP'	22.28.29		131.5°	
		i	22.28.40			
		e	22.32.01			
	ANT.	eP'	22.28.(35)		132.1°	
		e	22.32.(04)			
	GREN	eP'	22.28.36		130.7°	
	DOM	eP'	22.28.42		132.0°	
	ST. KIT	eP'	22.28.42		131.0°	
	BARB	eP'	22.28.46		133.0°	
6	TRIN	iP	23.26.48		0.8°	
		iS	23.26.56			
7	TRIN	iP	12.12.36		1.30°	H: 12.12.18
		iS	12.12.49			E: 9.8°N 62.3°W
						Depth: About 50 km
	GREN	iP	12.12.52		2.39°	Magnitude: 5.8
	BARB	eP	12.13.(24)		4.27°	Small
	DOM	eP	12.13.37		5.62°	
		iS	12.14.35			
		e	12.17.52			
	ST. KIT	iP	12.14.(08)		7.60°	

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
7	ST. KIT	eP'	13.30.(24)		146.0°	Felt: New Britain USCGS Gives H: 13.10.44
	ANT.	eP'	13.30.(25)		147.0°	E: 5.7°S 149.7°E Depth: About 57 km
	GREN	eP'	13.30.27		148.2°	
	DOM	eP'	13.30.28		148.0°	
	ST. VIN	iP'	13.30.29		148.3°	
	TRIN	eP' iP2'	13.30.30 13.30.46		148.6°	
	BARB	eP2	13.30.43		150.2°	Very small
7	TRIN	iP iS	21.51.36 21.51.49		1.2° 2	
	GREN	eP	21.51.52		2.4°	
7	TRIN	eP iS	22.14.46 22.15.03		1.6°	
	GREN	eP eS	22.14.49 22.15.06		1.7°	
8	TRIN	iP iS	03.33.52 03.33.59		0.6°	
	GREN.	eP	03.34.02		1.4°	
8	TRIN	eP iS	11.36.56 11.37.14		1.7°	
	GREN	eP	11.37.10		2.7°	
8	TRIN	eP' e	15.53.48 15.55.08		130.0°	USCGS Gives H: 15.34.39 E: 20.1°S 169.8°E Depth: About 44 km
8	ST. VIN	e(P) eS	20.03.(09) 20.03.(32)		(2.2°)	
8	TRIN	eP'	21.33.09		130.4°	USCGS Gives H: 21.13.59 E: 20.2°S 169.0°E Depth: About 56 km

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
8	TRIN	eP'	22.07.54		130.4°	USCGS Gives H: 21.48.46 E: 20.2°S 169.0°E Depth: About 68 km
9	ANT.	iP	03.41.(26)		1.0°	
		iS	03.41.(36)			
9	TRIN	iP	09.46.35		1.3°	
		iS	09.46.48			
	GREN	iP	09.46.39		1.6°	
		iS	09.46.56			
10	TRIN	iP	00.50.46		0.6°	
		iS	00.50.53			
10	TRIN	e	04.05.38			
10	TRIN	iP	13.55.31		1.3°	
		iS	13.55.45			
	GREN	eP	13.55.38		1.9°	
		eS	13.55.57			
10	TRIN	iP	18.56.18		0.71°	H: 18.56.08 E: 10.9°N 61.4°W Depth: About 75 km Magnitude: 4.0
		iS	18.56.25			
	GREN	iP	18.56.28	d	1.38°	
		iS	18.56.41			
	ST. VIN	eP	18.56.42		2.39°	
		eS	18.57.09			
10	ST. VIN	eP	19.43.(24)			
10	TRIN	iP	21.58.52		0.64°	H: 21.58.43 E: 10.6°N 61.9°W Depth: About 50 km Magnitude: 4.5
		iS	21.58.57			
	GREN	iP	21.59.04		1.50°	
		iS	21.59.21			
	ST. VIN	eP	21.59.21		2.65°	
		eS	21.59.49			

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
11	GREN	eP	07.07.00		1.1°	
		iP	07.07.02			
		iS	07.07.11			
	TRIN	eP	07.07.02		1.2°	
	ST. VIN	e	07.07.(31)			
11	ST. VIN	eP_2'	09.51.(26)		146.7°	USCGS Gives H: 09.31.57
						E: 8.3°N 93.3°E
	TRIN	eP_2'	09.51.31		148.1°	Depth: About 163 km
11	TRIN	iP	19.02.59		0.8°	
		iS	19.03.07			
11	TRIN	iP	23.39.26		1.3°	
		iS	23.39.39			
	GREN	eP	23.39.33		1.9°	
		iS	23.39.52			
13	ST. KIT	iP	01.10.(10)		1.2°	
		iS	01.10.(23)			
	ANT.	iP	01.10.(15)		1.7°	
		iS	01.10.(32)			
13	TRIN	iP	03.37.20		1.9°	
		iS	03.37.39			
13	ST. KIT	eP	09.24.49			
13	ST. VIN	eP	09.48.26		2.7°	
		eS	09.48.54			
13	TRIN	eP	10.51.41			
13	TRIN	e	22.04.14			
14	TRIN	eP'	01.26.48		146.7°	Small
						Felt: Rabaul, New Britain
						USCGS Gives H: 01.07.11
						E: 5.4°S 151.9°E
						Depth: About 77 km

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
14	ST. VIN	e(P)	22.10.51		(2.6°)	
		eS	22.11.18			
15	ST. VIN	eP	00.24.22		2.2°	
		eS	00.24.44			
15	TRIN	iP	10.28.41			
15	TRIN	iP	12.42.18			
15	TRIN	i	20.26.38			
16	TRIN	eP'	14.20.45		128.4°	USCGS Gives H: 14.01.39 E: 22.7°S 171.2°E Depth: About 56 km
16	ST. VIN	eP	17.19.36		2.4°	
		eS	17.20.00			
17	ST. KIT	eP	01.07.16			
	TRIN	eP	01.08.05			
17	ANT	eP	15.59.(19)		1.0°	
		iS	15.59.(29)			
	ST. KIT	iP	15.59.28		1.8°	
		iS	15.59.47			
17	TRIN	eP'	17.27.54		146.1°	USCGS Gives H: 17.08.17 E: 5.4°S 152.4°E Depth: About 64 km
17	ST. VIN	e	17.59.01			
		e	17.59.12			
18	TRIN	iP	00.58.53		0.6°	
		iS	00.59.00			
	ST. VIN	e(P)	00.59.21		(2.6°)	
		eS	00.59.42			

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
18	ANT.	eP'	14.22.(55)		132.1°	Felt: Kyushu, Japan
	TRIN	e	14.22.55		138.0°	USCGS Gives H: 14.03.37
		eP'	14.23.04			E: 29.4° N 131.6° E
		ePP	14.25.49			Depth: About 21 km
		L	15.09.			
	ST. VIN	eP'	14.22.57		135.7°	
		ePP	14.25.34			
	BARB	eP'	14.23.04		136.3°	
18	TRIN	eP'	14.53.27		137.6°	USCGS Gives H: 14.34.07
						E: 29.9° N 131.2° E
						Depth: About 72 km
19	ST. VIN	e(P)	03.36.(21)		(1.3°)	
		eS	03.36.(35)			
19	TRIN	eP	15.26.51			
19	TRIN	eP	16.33.18			
		i	16.33.26			
19	ANT.	iP	21.53.(21)		1.1°	
		iS	21.53.(32)			
20	TRIN	eP	02.33.20			
20	ST. KIT	iP	13.09.(26)		3.6°	
		iS	13.10.(02)			
	ANT	eP	13.09.(40)		4.4°	
		iS	13.10.(25)			
22	ANT	eP	01.17.(42)		(1.5°)	
	ST. KIT	iP	01.17.(43)		1.5°	
		iS	01.17.(58)			

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
22	DOM	eP	22.39.(09)		2.08°	H: About 22.38.53
		eS	22.39.26			E: " 14.9°N 59.3°W
						Magnitude: 5.0
	ST. VIN	eP	22.39.27		2.58°	
		eS	22.39.53			
	ANT.	eP	22.39.37		3.34°	
	ST. KIT	e	22.39.41		4.12°	
	TRIN	eP	22.40.05		4.71	
		e	22.40.54			
23	TRIN	iP	11.52.44		1.4	
		iS	11.52.58			
23	TRIN	eP'	14.22.52		131.6°	Felt: New Hebrides Islands
		e	14.26.23			USCGS Gives H: 14.03.40
						E: 18.5°S 168.2°E
						Depth: About 44 km
23	GREN	eP	14.48.08		61.1°	USCGS Gives H: 14.38.04
						E: 6.9°N 123.5°W
	TRIN	eP	14.48.11		61.5°	Depth: About 89 km
	ST. VIN	iP	14.48.11		61.5°	
	ANT.	eP	14.48.(20)		61.0°	
23	TRIN	eP	15.16.00		0.9°	
		iS	15.16.09			
23	TRIN	eP	15.52.53			Small
23	TRIN	eP'	22.10.19		131.4°	USCGS Gives H: 21.51.08
		e	22.13.42			E: 18.3°S 168.3°E
						Depth: About 44 km
	ST. KIT	eP'	22.10.20		131.6°	
		e	22.13.51			
	ANT.	eP'	22.10.(22)		132.0°	
24	TRIN	eP	01.58.23		22.4°	Felt: Ecuador
		iP	01.58.26			USCGS Gives H: 01.53.27
						E: 2.3°S 79.6°W
						Depth: About 25 km

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
24	TRIN	e(P)	02.12.16		21.0°	Small USCGS Gives H: 02.07.19 E: 1.6°S 78.3°W Depth: About 30 km
24	TRIN	eP iS	07.48.31 07.48.34		0.3°	
24	TRIN	eP' eP_2'	09.08.08 09.09.13		168.0°	USCGS Gives H: 08.48.14 E: 0 124.1°E Depth: About 159 km
25	TRIN	eP e(S)	02.52.27 02.56.01		21.6°	USCGS Gives H: 02.48.14 E: 8.8°S 71.3°W Depth: About 642 km
	GREN	eP iP	02.52.35 02.52.36		22.7°	
	DOM	eP	02.53.01		25.8°	
	ST. KIT	eP	02.53.15		27.1°	
	ANT	eP	02.53.(15)		27.3°	
25	TRIN	eP iS	03.51.33 03.51.39		0.6°	
	ST. VIN	iP	03.52.(44)		(1.4°)	
25	ST. KIT	iP iS	14.43.20 14.43.33		1.39°	H: 14.43.01 E: 17.3°N 63.1°W Depth: About 140 km
	ANT	iP iS	14.43.26 14.43.44		1.77°	Magnitude: 5.7
	DOM	eP	14.43.42		2.90°	
26	TRIN	iP iS	10.48.02 10.48.28		2.5°	
26	GREN	eP iS	22.06.47 22.07.03		1.6°	
27	DOM	e(P) eS	01.33.54 01.34.23		(2.8°)	

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
27	DOM	eP	16.53.(13)		1.2°	
		iS	16.53.(26)			
28	TRIN	eP'	00.53.31		141.7°	USCGS Gives H: 00.34.18 E: 27.0°N 126.6°E Depth: About 136 km
28	TRIN	eP	01.09.55		20.4°	USCGS Gives H: 01.05.30 E: 2.2°S 77.1°W Depth: About 136 km
		iP	01.09.58			
		eS	01.13.40			
	GREN	eP	01.10.01		20.9°	
		iP	01.10.02			
		eS	01.13.51			
	ST. VIN	eP	01.10.09		22.2°	
		eS	01.14.08			
	BARB	eP	01.10.25		23.1°	
		iP	01.10.28			
	DOM	eP	01.10.(26)		23.5°	
		iP	01.10.(29)			
	ANT	eP	01.10.(38)		24.4°	
		iP	01.10.(40)			
		eS	01.14.(51)			
28	TRIN	iP	02.57.09		0.6°	
		iS	02.57.15			
28	DOM	e	08.35.(37)			
28	TRIN	iP	09.30.54		1.4°	
		iS	09.31.08			
28	ANT	iP	19.30.(39)		(1.1°)	
	ST. KIT	iP	19.30.(51)		1.9°	
		iS	19.31.(10)			
29	ST. KIT	eP	15.52.35		1.8°	
		iS	15.52.54			

DATE 1961 JULY	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE
30	TRIN	eP	08.39.12		1.7°
		iP	08.39.15		
		iS	08.39.29		
	GREN	eP	08.39.20		2.4°
		eS	08.39.45		
31	ST. KIT	eP	01.02.36		1.7°
		iS	01.02.53		
	ANT	eP	01.02.49		3.6°
31	ANT	eP	07.54.(34)		
	ST. KIT	eP	07.54.45		
31	TRIN	iP	17.48.17		1.4°
		iS	17.48.32		

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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Regional Research Centre,

Trinidad, West Indies.

AUG 1961

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10°	39.0'	N	LONG.	61°	24.1'	W	27m.
GRENADA	(GREN)	LAT.	12°	02.7'	N	LONG.	61°	44.1'	W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13°	10.2'	N	LONG.	61°	15.5'	W	10m.
ST. LUCIA	(ST. LUC)	LAT.	14°	01.7'	N	LONG.	61°	00.5'	W	30m.
BARBADOS	(BARB)	LAT.	13°	07.4'	N	LONG.	59°	35.6'	W	70m.
DOMINICA	(DOM)	LAT.	15°	17.7'	N	LONG.	61°	23.5'	W	40m.
ANTIGUA	(ANT)	LAT.	17°	08.6'	N	LONG.	61°	50.1'	W	27m.
ST. KITTS	(ST. KIT)	LAT.	17°	20.3'	N	LONG.	62°	43.7'	W	

EQUIPMENT

Trinidad is equipped with three components of Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

All other stations have similar equipment recording vertical component only.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

Intensity Scale in use: Modified Mercalli Intensity Scale.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
AUG 1	ST. VIN	eP	03.19.34		14.5°	USCGS Gives H:03.16.11 E:15.5°N 46.6°W Depth:About 48 km
	ANT.	eP	03.19.(34)		14.7°	
	GREN	eP	03.19.43		15.4°	
	TRIN	eP iPP	03.19.47 03.19.54		15.5°	
1	TRIN	iP iS	03.30.27 03.30.39		1.2°	
	GREN	eP iS	03.30.33 03.30.50		1.7°	
1	DOM	e i	03.33.15 03.33.53			
1	TRIN	eP	03.38.15			Small
1	DOM	e	03.51.56			
1	ANT	eP'	05.59.(12)		138.0°	Felt: Solomon Islands region USCGS Gives H:05.39.53 E:9.8°S 160.5°E Depth:About 50 km
	TRIN	eP' e	05.59.16 06.02.54		138.7°	
	ST. VIN	eP'	05.59.19		138.4°	
	ST. KIT	e	06.00.10		137.3°	
1	TRIN	eP iS	06.39.34 06.39.47		1.2°	
1	TRIN	eP eS	07.32.47 07.42.17		74.0°	USCGS Gives H:07.21.12 E:56.8°S 25.1°W Depth:About 44 km
	GREN	eP	07.32.56		75.5°	
	ST. VIN	eP	07.33.03		76.3°	
	DOM	eP	07.33.13		78.3°	
	ANT	eP	07.33.(23)		80.4°	
	ST. KIT	eP	07.33.25		81.0°	
1	TRIN	eP	09.35.56			
	GREN	eP	09.36.05			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
AUG 1	TRIN	eP	09.46.14		74.1°	USCGS Gives H:09.34.41 E:57.1°S 26.1°W Depth:About 31 km
	ST. VIN	e	09.46.21		76.6°	
	GREN	eP	09.46.22		75.5°	
	DOM	eP	09.46.34		78.4°	
	ST. KIT	eP	09.46.52		81.0°	
2	TRIN	eP	02.43.02		74.2°	USCGS Gives H:02.31.25 E:56.7°S 24.8°W Depth:About 25 km
		ePPP	02.47.41			
	GREN	eP	02.43.10		75.5°	
	ST. VIN	eP	02.43.(19)		76.5°	
	DOM	eP	02.43.31		78.5°	
	ST. KIT	eP	02.43.38		81.1°	
	ANT	eP	02.43.(39)		80.1°	
2	TRIN	eP	11.20.39		1.2°	
		iS	11.20.51			
2	ST. KIT	eP	22.19.12		2.9°	
		iS	22.19.42			
	ANT	eP	22.19.21		3.6°	
3	ST. KIT	iP	03.09.01		4.16°	H:03.08.03 E:18.5°N 66.9°W Magnitude:7.1
	ANT	iP	03.09.14		5.03°	
	DOM	eP	03.09.31		6.19°	
		i	03.09.37			
	GREN	eP	03.09.56		8.17°	
		iP	03.10.00			
		iS	03.11.21			
		e	03.17.11			
	BARB	eP	03.10.10		8.88°	
	TRIN	eP	03.10.17		9.51°	
		iP	03.10.20			
		iS	03.11.55			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
AUG 3	GREN	e	03.22.09			Very small
	DOM	e	03.22.59			
	ST.KIT	eP	03.23.04			
	TRIN	eP	03.23.16			
3	TRIN	eP	05.43.46		1.7°	
		iP	05.43.47			
		iS	05.44.03			
	GREN	eP	05.44.00		2.7°	Very small
3	ST.VIN	iP'	23.53.16		144.1°	USCGS Gives H:23.33.38 E:12.1°N 143.8°E
	TRIN	iP'	23.53.19		145.7°	Depth:About 20 km
5	TRIN	iP	03.11.57		0.5°	
		iS	03.12.02			
	GREN	eP	03.12.10		1.9°	
		iS	03.12.29			
5	TRIN	eP	09.33.54		30.2°	Felt:Arequipa, Peru USCGS Gives H:09.27.46 E:18.8°S 68.2°W Depth:About 113 km
	GREN	eP	09.34.04		31.4°	
	ST. VIN	eP	09.34.15		32.7°	
5	ANT	iP	15.15.(50)		(1.2°)	
		iS	15.16.(03)			
	ST. KIT	iP	15.15.55		1.7°	
		iS	15.16.13			
5	TRIN	eP	16.50.02			
		i	16.50.06			
	GREN	i	16.50.08			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
AUG 5	TRIN	iP	20.02.38		1.48°	H: 20.02.18
						E: 10.7°N 62.9°W
	GREN	iP	20.02.43		1.78°	Magnitude: 4.7
		iS	20.03.03			
	ST. VIN	iP	20.03.00		2.96°	
		iS	20.03.29			
5	ANT	iP	22.35.(42)			
	ST. KIT	eP	22.35.57			
6	TRIN	iP	16.52.(24)		1.37°	H: 16.52.05
		iS	16.52.(37)			E: 10.6°N 62.8°W
	GREN	iP	16.52.30		1.81°	Magnitude: (5.4)
		iS	16.52.48			
	ST. VIN	eP	16.52.47		3.01°	
		eS	16.53.19			
6	DOM	eP	17.21.41			
		i	17.21.43			
6	GREN	iP	23.31.21		1.6°	
		iS	23.31.38			
	TRIN	iP	23.31.(23)		(1.5°)	
		iS	23.31.(39)			
7	TRIN	iP	06.02.(03)			
	GREN	iP	06.02.25			
7	TRIN	eP	12.26.(22)			
7	TRIN	iP	17.20.(03)		(0.5°)	
		iS	17.20.(07)			
8	TRIN	iP	08.33.(57)		(1.2°)	
		iS	08.34.(09)			
8	ANT	eP	12.31.(13)		87.9°	USCGS Gives H: 12.18.19
						E: 50.9° 170.7°W
	ST. VIN	eP	12.31.31		91.2°	Depth: About 24 km
	TRIN	eP	12.31.(37)		93.3°	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
AUG 8	TRIN	iP	22.47.13			
9	ST. KIT	iP	01.50.15		1.6°	
		iS	01.50.32			
	ANT	eP	01.50.(18)			
9	ANT	eP	02.18.(51)		(2.7°)	
		iS	02.19.(19)			
	ST. KIT	iP	02.18.55		2.8°	
		iS	02.19.24			
9	TRIN	cP	10.36.46		1.1°	
		iP	10.36.47			
		iS	10.36.57			
	GREN	eP	10.36.47		1.2°	
		iS	10.36.59			
9	TRIN	eP'	16.21.42		130.5°	USCGS Gives H:16.02.36
		e	16.25.05			E:19.1°S 168.7°E
						Depth:About 69 km
10	DOM	iP	02.08.(47)		(0.2°)	
		iS	02.08.(49)			
10	TRIN	iP	04.58.08		1.3°	
		iS	04.58.22			
	GREN	eP	04.58.10		1.6°	
		iS	04.58.26			
10	GREN	iP	10.02.53	d	1.4°	
		iS	10.03.08			
	TRIN	iP	10.03.03		1.9°	
		iS	10.03.23			
10	TRIN	eP	12.03.23		2.3°	
		iS	12.03.47			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
AUG10	TRIN	iP	20.08.22		1.2°	
		iS	20.08.34			
	GREN	iP	20.08.26		1.5°	
		iS	20.08.42			
11	TRIN	eP	06.21.24		1.2°	
		iS	06.21.37			
11	ST. KIT	iP	06.33.22		2.0°	
		iS	06.33.43			
11	TRIN	iP	11.43.49		0.9°	
		iS	11.43.58			
	GREN	iP	11.43.54		1.3°	
		iS	11.44.07			
11	TRIN	iP	12.30.50		1.3°	
		iS	12.31.03			
	GREN	iP	12.30.51		1.5°	
		iS	12.31.07			
11	TRIN	eP	16.10.24			
11	DOM	iP	16.48.48		1.26°	H:16.48.30
	ANT	iP	16.49.(01)	c	2.09°	E:15.7°N 60.6°W
		iS	16.49.(24)			Depth:About 100 km
						Magnitude:4.5
	ST. KIT	iP	16.49.10		2.78°	
		iS	16.49.38			
	TRIN	eP	16.49.43		5.17°	
11	GREN	iP	19.55.07		1.2°	
		iS	19.55.20			
	TRIN	iP	19.55.14		1.6°	
		iS	19.55.31			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
11	TRIN	iP	20.34.38		1.3°	
		iS	20.34.51			
	GREN	iP	20.34.40		1.6°	
		iS	20.34.57			
12	ST. VIN	iP	12.16.56	d	0.94°	H:12.16.42
		iS	12.17.05			E:13.7°N 62.0°W
						Magnitude:(4.9)
	GREN	iP	12.17.07		1.71°	
	TRIN	eP	12.17.27		3.14°	
12	ST. KIT	iP	17.07.39		1.0°	
		iS	17.07.50			
	ANT	iP	17.07.40		1.1°	
		iS	17.07.51			
13	TRIN	eP'	06.20.36		143.8°	USCGS Gives H:06.01.02
						E:25.3°N 121.5°E
						Depth:About 25 km
13	DOM	eP	07.50.17		1.81°	H:07.49.52
						E:17.0°N 60.6°W
	ST. KIT	iP	07.50.21	d	2.04°	Magnitude.(5.3)
		iS	07.50.42			
	ST. VIN	eP	07.50.48		3.83°	
	GREN	eP	07.51.03		5.02°	
	TRIN	eP	07.51.23		6.35°	
13	DOM	iP	13.36.56		1.66°	H:13.36.33
		iS	13.37.12			E:14.8°N 60.4°W
						Depth:About 140 km
	ST. VIN	iP	13.37.04	c	2.19°	Magnitude:6.1
	ANT	iP	13.37.16		3.02°	
	GREN	iP	13.37.19	c	3.26°	
		iS	13.37.51			
	ST. KIT	iP	13.37.25	c	3.64°	
		iS	13.38.02			
	TRIN	iP	13.37.35		4.40°	
		iS	13.38.19			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
AUG 13	ANT	eP	15.05.(16)		(2.2°)	
		iS	15.05.(39)			
	ST. KIT	iP	15.05.30		2.8°	
		iS	15.05.59			
	TRIN	e	15.06.42			Very small
13 13	ANT	eP	15.12.(12)		2.2°	
		iS	15.12.(35)			
	ST. KIT	iP	15.12.25		3.1°	
		iS	15.12.57			
13	ANT	eP	16.03.(17)			
	ST. KIT	e	16.03.29			
13	TRIN	eP	17.33.32			
		i	17.33.35			
13	ANT	eP	22.38.(13)			
	ST. KIT	e	22.38.24			
14	TRIN	iP	07.33.20		0.7°	
		iS	07.33.27			
14	TRIN	eP'	23.47.51		130.0°	Felt:Port Vila New Hebrides Islands region USCGS Gives H:23.28.47 E:20.3°S 169.4°E Depth:About 97 km
15	TRIN	eP	08.54.17		0.3°	
		iS	08.54.20			
15	DOM	eP	09.19.30		1.90°	H:09.19.03 E:15.1°N 62.0°W Depth:About 200 km Magnitude:5.2
		eS	09.19.49			
	GREN	eP	09.19.53		3.51°	
	TRIN	eP	09.20.11		4.78°	
		iS	09.21.00			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
15	TRIN	iP	10.00.11		0.3°	
		iS	10.00.14			
15	TRIN	iP	10.35.09		0.3°	
		iS	10.35.12			
15	ANT	eP'	19.22.(55)		125.0°	USCGS Gives H:19.03.56 E:32.8°N 142.4°E Depth:About 39 km
	TRIN	eP'	19.23.08		130.8°	Small
15	TRIN	eP	21.37.42		1.3°	
		iS	21.37.55			
	GREN	iP	21.37.44	c	1.5°	
		iS	21.38.00			
16	TRIN	eP	00.59.16			
	GREN	e	00.59.46			Very small
16	ANT	iP	03.16.(14)		(0.5°)	
		iS	03.16.(19)			
	ST. KIT	eP	03.16.28		1.4°	
		iS	03.16.43			
16	TRIN	iP	09.02.00		0.4°	
		iS	09.02.04			
16	BARB	eP	15.53.15		1.35°	Very small
	GREN	iP	15.53.23	c	2.07°	H:15.52.54 E:13.5°N 60.6°W Depth:About 100 km Magnitude:4.3
		iS	15.53.44			
	TRIN	eP	15.53.37		3.11°	
		eS	15.54.09			
17	TRIN	eP	06.46.57		63.2°	USCGS Gives H:06.36.23 E:34.4°S 109.0°W Depth:About 25 km
		L	07.09.			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
17	TRIN	iP	09.54.05		0.6°	
		iS	09.54.11			
17	ANT	iP	16.00.(01)	d	1.50°	H:16.00.41
		iS	16.00.(11)			E:17.3°N 60.3°W
						Magnitude:(5.7)
	DOM	eP	16.00.13		2.27°	
		iS	16.00.37			
	ST. KIT	iP	16.00.15	d	2.34°	
		iS	16.00.38			
	GREN	eP	16.00.58		5.43°	
	TRIN	e	16.01.21		6.72°	
17	TRIN	eP	21.34.59			
		e	21.36.07			
18	DOM	eP	04.34.25		1.4°	
		eS	04.34.40			
18	TRIN	iP	16.27.08		1.4°	
		iS	16.27.22			
19	TRIN	eP	03.08.58			
		i	03.09.03			
19	TRIN	eP	03.57.33		1.4°	
		iS	03.57.47			
	GREN	iP	03.57.38	d	1.8°	
		iS	03,57.57			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
19	TRIN	iP	05.14.15		23.4°	USCGS Gives H:05.09.50
		i	05.16.56			E:10.7°S 71.0°W
		i	05.20.20			Depth:About 649 km
		i	05.21.57			
	GREN	iP	05.14.24	d	24.2°	
		i	05.16.(03)			
		i	05.18.(05)			
	ST. VIN	iP	05.14.34		25.6°	
		i	05.18.(23)			
		i	05.24.(02)			
	BARB	iP	05.14.43	c	25.8°	
		i	05.18.31			
		e	05.22.26			
		e	05.26.25			
	DOM	iP	05.14.51	c	27.4°	
	ST. KIT	iP	05.15.05	d	28.8°	
	ANT	iP	05.15.(05)		28.9°	
19	ANT	eP	14.54.08		7.09°	H:14.52.28
		iP	14.54.09			E:18.0°N 69.1°W
						Depth:About 100 km
	DOM	eP	14.54.21		7.96°	Magnitude:6.9
		iP	14.54.22			
		iS	14.55.44			
		T	15.05.46			
	ST. VIN	iP	14.54.32		9.03°	
		T	15.03.(26)			
	GREN	iP	14.54.38		9.33°	
		iS	14.56.12			
		T	15.03.47			
	TRIN	eP	14.54.56		10.47°	
		iP	14.54.57			
		iS	14.56.43			
	BARB	eP	14.54.59		10.45°	
		e	14.56.42			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
19	TRIN	eP	15.53.24			Small USCGS Gives H:16.01.26 E:11.4°S 70.6°W Depth:645 km
19	TRIN	iP	16.05.56		23.7°	
	GREN	iP	16.06.06		24.8°	
	ST. VIN	iP	16.06.15	d	26.1°	
20	DOM	iP	04.39.03		1.5°	
		iS	04.39.18			
	ANT	iP	04.39.(10)		(2.0°)	
	ST. VIN	e	04.39.25			
		e	04.39.54			
20	TRIN	iP	04.40.23		1.2°	
		iS	04.40.36			
	GREN	eP	04.40.27		1.7°	
		iS	04.40.44			
20	TRIN	eP	06.03.30			
20	TRIN	eP	09.14.41		23.8°	USCGS Gives H:09.10.12 E:11.4°S 70.8°W Depth:About 678 km
	GREN	eP	09.14.49		24.8°	
20	GREN	iP	13.31.16		1.6°	
		iS	13.31.33			
20	ST. VIN	iP	21.00.39	c	2.39°	H:21.00.05 E:14.9°N 62.2°W Depth:About 150 km Magnitude:4.6
		iS	21.01.03			
	ANT	eP	21.00.(49)		2.60°	
	GREN	iP	21.00.51		3.22°	
	TRIN	iP	21.01.09		4.55°	

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
21	TRIN	iP	01.07.03		1.3°	
		iS	01.07.16			
	GREN	iP	01.07.10		2.0°	
		iS	01.07.30			
21	TRIN	iP	03.43.04		1.76°	H:03.43.40
		iS	03.43.19			E:11.4°N 60.1°W
						Depth:About 100 km
	GREN	iP	03.43.07		1.99°	Magnitude:3.7
		iS	03.43.28			
	ST. VIN	iP	03.43.13	d	2.32°	
		iS	03.43.38			
21	TRIN	eP	05.12.10		0.9°	
		iS	05.12.19			
21	TRIN	eP	06.26.25			Small
21	TRIN	eP	07.59.35			Small
21	ST. KIT	eP	09.19.15		1.7°	
		iS	09.19.33			
21	ANT	iP	16.57.24			
21	ST. KIT	eP	19.41.40		3.45°	H:19.41.51
		iS	19.42.14			E:19.9°N 64.3°W
						Depth:About 200 km
	ANT	eP	19.41.48		4.02°	Magnitude:6.0
	DOM	eP	19.42.11		5.64°	
	TRIN	eP	19.43.09		9.78°	
21	ST. VIN	eP	21.58.27			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
22	DOM	eP	08.13.28		1.19°	H:08.13.11
		eS	08.13.46			E:14.4°N 60.7°W
						Magnitude:4.9
	ST. VIN	iP	08.13.29		1.32°	
		iS	08.13.48			
	GREN	eP	08.13.47		2.53°	
	TRIN	eP	08.14.04		3.76°	Small
22	DOM	eP	23.15.58		0.2°	
		iS	23.16.00			
22	TRIN	eP	23.23.06		1.2°	
		iS	23.23.18			
23	DOM	eP	08.00.47		1.7°	
		eS	08.01.05			
	ST. VIN	eP	08.00.(59)		(2.1°)	
		eS	08.01.21			
23	ST. KIT	iP	09.28.(19)			
23	TRIN	iP	09.56.02		0.5°	
		iS	09.56.08			
23	ST. VIN	eP	17.17.53			
23	TRIN	iP	17.55.45			
24	TRIN	eP	04.15.36		0.6°	
		eS	04.15.42			
24	TRIN	eP	18.00.19			
24	GREN	iP	22.48.19		1.5°	
		iS	22.48.34			
	TRIN	iP	22.48.23		1.6°	
		iS	22.48.39			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
25	ANT	iP	05.08.37	d	1.8°	
		iS	05.08.56			
25	TRIN	eP	07.12.15		86.8°	Small USCGS Gives H:06.59.30 E:53.5°N 161.2°W Depth:About 36 km
26	ANT	iP	01.18.32			
26	TRIN	eP	01.22.27		11.9°	USCGS Gives H:01.19.39 E:7.0°N 73.2°W Depth:About 183 km
		i	01.22.34			
	GREN	eP	01.22.29		12.3°	
	ST. VIN	eP	01.22.42		13.1°	
	ANT	eP	01.23.02		14.5°	
26	TRIN	iP	02.21.32		2.2°	
		iS	02.21.54			
	GREN	eP	02.21.45		3.1°	
26	TRIN	iP	06.54.48		1.79°	H:06.54.23 E:10.7°N 63.0°W Depth:About 100 km Magnitude:3.8
			06.55.05			
	GREN	eP	06.54.52		2.01°	
		iS	06.55.12			
	ST. VIN	eP	06.55.06		3,10°	
26	TRIN	iP	17.25.55		0.8°	
		iS	17.26.04			
	GREN	eP	17.26.11		1.9°	
26	GREN	eP	19.12.23			
26	TRIN	iP	19.56,04		1.4°	
		iS	19.56.18			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
26	GREN	eP	21.59.44			
26	TRIN	iP	22.02.14		1.4°	
		iS	22.02.29			
26	TRIN	iP	22.14.16		1.61°	H:22.13.54
		iS	22.14.34			E:9.6°N 62.7°W
						Magnitude:(5.5)
	GREN	eP	22.14.30		2.57°	
		iS	22.14.55			
	ST. VIN	eP	22.14.47		3.79°	
26	ST. VIN	e(P)	23.11.09		(1.1°)	
		eS	23.11.21			
27	TRIN	eP	04.24.59			Small
27	ANT	eP	07.57,11			
27	GREN	eP	12.42.21			
27	GREN	eP	13.40.44			
27	GREN	eP	15.52.15			
27	GREN	eP	16.40.00			
		i	16.40.12			
27	TRIN	eP'	17.07,14		139.7°	USCGS Gives H:16.47.45
						E:18.3°N 146.6°E
						Depth:About 27 km
27	TRIN	eP	22.40.05		0.7°	
		iS	22.40.12			
28	ANT	eP	00.25.59			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
28	ANT	iP	05.16.06			
28	TRIN	iP	06.33.52		27.1°	USCGS Gives H:06.28.19 E:15.1°S 70.2°W Depth:About 185 km
		e	06.40.33			
	GREN	iP	06.34.03		28.1°	
		e	06.38.42			
	ST. VIN	iP	06.34.14	c	29.7°	
	BARB	eP	06.34.20		29.8°	
	DOM	eP	06.34.29		31.6°	
	ANT	eP	06.34.(44)		(33.1°)	
28	TRIN	iP	07.32.17		1.5°	
		iS	07.32.33			
28	TRIN	e	08.01.51			Small
28	TRIN	e	21.38.43			
		e	21.41.46			
29	TRIN	iP	08.32.20		1.4°	
		iS	08.32.35			
	GREN	eP	08.32.35		2.4	
29	ST. KIT	e	17.14.20			
	ANT	e	17.14.37			
	TRIN	eP	17.15.34			
		e	17.15.41			
		e	17.17.31			

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
29	TRIN	iP	21.32.58		0.7°	
		iS	21.33.05			
	GREN	eP	21.33.05		1.6°	
		iS	21.33.21			
	ST. VIN	e	21.33.27			Small
30	BARB	eP	02.04.43			
30	ANT	eP	02.38.16		84.2°	USCGS Gives H:02.25.45 E:53.7° N 166.3° W Depth: 67 km
	TRIN	eP	02.38.41		89.6°	Small
30	TRIN	eP	03.50.21		21.3°	Small
	ST. KIT	eP	03.50.58		25.0°	USCGS Gives H:03.45.26 E:3.5° S 77.7° W Depth:About 25 km
31	TRIN	iP	01.53.04		23.2°	USCGS Gives H:01.48.38 E:10.6° S 70.9° W Depth:About 626 km
		i	01.55.42			
	GREN	iP	01.53.12		24.1°	
	ST. VIN	iP	01.53.22	d	25.4°	
	BARB	iP	01.53.31	d	25.9°	
		e	01.56.16			
		iS	01.57.21			
	DOM	iP	01.53.36		27.5°	
	ST. KIT	iP	01.53.52	d	28.7°	
	ANT	iP	01.53.(53)		28.8°	

DATE 1961 AUG	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
31	TRIN	iP	02.01.30		22.7°	Felt:Arequipa, Peru
		e	02.34.47			USCGS Gives H:01.57.08
		e	02.43.45			E:10.4°S 70.7°W
						Depth:About 629 km
	GREN	iP	02.01.41		23.9°	
		iS	02.05.23			
	ST. VIN	iP	02.01.51		25.2°	
	BARB	eP	02.01.58		25.6°	
		iP	02.02.02			
		i(S)	02.05.56			
	DOM	iP	02.02.12		27.1°	
	ST. KIT	iP	02.02.19		28.5°	
	ANT	iP	02.02.(20)		28.5°	
31	TRIN	eP	03.56.08		1.4°	
		iS	03.56.23			
31	TRIN	eP	15.04.34		26.3°	USCGS Gives H:14.59.01
						E:9.5°S 79.0°W
	GREN	eP	15.04.50		27.2°	Depth:About 100 km

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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Regional Research Centre,

Trinidad, West Indies.

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10°	39.0'	N	LONG.	61°	24.1'	W	27m.
GRENADA	(GREN)	LAT.	12°	02.7'	N	LONG.	61°	44.1'	W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13°	10.2'	N	LONG.	61°	15.5'	W	10m.
ST. LUCIA	(ST. LUC)	LAT.	14°	01.7'	N	LONG.	61°	00.5'	W	30m.
BARBADOS	(BARB)	LAT.	13°	07.4'	N	LONG.	59°	35.6'	W	70m.
DOMINICA	(DOM)	LAT.	15°	17.7'	N	LONG.	61°	23.5'	W	40m.
ANTIGUA	(ANT)	LAT.	17°	08.6'	N	LONG.	61°	50.1'	W	27m.
ST. KITTS	(ST. KIT)	LAT.	17°	20.3'	N	LONG.	62°	43.7'	W	

EQUIPMENT

Trinidad is equipped with three components of Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

All other stations have similar equipment recording vertical component only.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

Intensity Scale in use: Modified Mercalli Intensity Scale.

DATE 1961 SEPT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1	TRIN	iP	00.21.06		75.7°	USCGS Gives H: 00.09.35 E:59.3°S 27.3°W Depth: About 131 km
	GREN	iP	00.21.14	c	77.0°	
	BARB	eP	00.21.14		77.0°	
	ST. VIN	eP	00.21.20		78.0°	
	DOM	eP	00.21.31		80.0°	
	ANT	eP	00.21.(42)		82.0°	
	ST. KIT	iP	00.21.44		82.4°	
1	TRIN	iP iS	16.40.43 16.41.05		2.2°	
1	TRIN	eP ePcP	18.56.45 18.59.46		30.7°	USCGS Gives H: 18.50.35 E: 13.5°N 92.5°W Depth: About 37 km
3	ST. KIT	eP	04.53.28		24.4°	Felt: Managua, Nicaragua USCGS Gives H: 04.48.26 E: 12.1°N 86.9°W Depth: About 124 km.
	GREN	eP	04.53.34		24.7°	
	TRIN	eP	04.53.36		25.1°	
	ST. VIN	eP	04.53.39		25.2°	
3	TRIN	eP i eS	10.22.16 10.22.24 10.24.46		13.2°	Small USCGS Gives H: 10.19.20 E: 6.4°N 73.4°W Depth: About 86 km
3	TRIN	iP iS	12.38.59 12.39.14		1.38°	H: 12.38.40 E: 9.8°N 62.5°W Magnitude: 6.5
	GREN	eP iP iS	12.39.13 12.39.17 12.39.32		2.40°	
	ST. VIN	iP iS	12.39.30 12.40.12		3.61°	
	BARB	e	12.39.50		4.40°	
	DOM	eP eS	12.39.59 12.40.57		5.63°	
	ST. KIT	eP eS	12.40.27 12.41.47		7.58°	

DATE SEPT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
3	ST. KITT.	iP	15.13.23		1.7°	
	ANT	eP	15.13.23		1.7°	
		iS	15.13.41			
3	GREN	eP	17.25.09		1.2°	
		eS	17.25.22			
3	ST. KIT	eP	17.30.34		2.7°	
		eS	17.31.02			
3	TRIN	iP	22.09.05		0.4°	
		iS	22.09.09			
4	TRIN	iP	04.29.33		1.31°	H: 04.29.15 E: 10.9°N 62.7°W Magnitude: 5.4
		iS	04.29.46			
	GREN	iP	04.29.36	c	1.51°	
		iS	04.29.52			
	ST. VIN	eP	04.29.53		2.69°	
		eS	04.30.26			
4	ST. KIT	iP	07.42.39			
4	ST. KIT	eP	10.02.18		91.0°	USCGS Gives H: 09.49.11 E: 51.4°N 178.1°W Depth: About 35 km.
	ST. VIN	iP	10.02.37	d	95.3°	
	TRIN	eP	10.02.45		97.2°	
4	TRIN	eP	15.09.49			Small
4	TRIN	eP'	16.29.39		164.7°	USCGS Gives H: 16.09.20 E: 1.3°N 127.7°E Depth: About 156 km.
	ST. VIN	e	16.29.46		162.9°	
5	TRIN	eP	02.18.17			
		e	02.19.58			
5	TRIN	eP	02.49.20		73.9°	Small USCGS Gives H: 02.37.35 E: 80.0°N 2.3°W Depth: About 18 km.

DATE SEPT 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
5	ST. KIT	eP	11.46.10		74.3°	Felt: Anchorage USCGS Gives H: 11.34.37 E: 59.8°N 150.6°W Depth: About 44 km
	ST. VIN	eP	11.46.34		78.2°	
	TRIN	eP	11.46.45		80.5°	
5	TRIN	eP iS	16.30.15 16.30.32		1.7°	
6	TRIN	iP iS	05.21.05 05.21.19		1.4°	
	GREN	iP iS	05.21.10 05.21.30		1.9°	
6	TRIN	eP	15.17.44			
6	TRIN	eP	15.36.08		27.9°	Small USCGS Gives H: 15.30.20 E: 10.8°S 79.1°W Depth: About 45 km
	ST. KIT	eP	15.36.49		32.7°	
8	TRIN	eP iS	02.11.03 02.11.16		1.3°	
8	TRIN	eP	06.12.55		23.1°	USCGS Gives H: 06.07.55 E: 1.5°S 81.0°W Depth: About 56 km
8	TRIN	eP	07.47.26			
8	TRIN	eP	11.37.48		73.1°	USCGS Gives H: 11.26.33 E: 56.1°S 27.3°W Depth: About 125 km.
	ST. VIN	eP iP	11.38.02 11.38.04		75.1°	
	BARB	eP	11.38.03		74.5°	
	ST. KIT	iP	11.38.25	c	79.4°	
9	TRIN	eP	16.22.18			

1961 SEPT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
9	ANT	eP	22.18.22		1.6°	
		iS	22.18.38			
	ST. KIT	eP	22.18.26		1.9°	
		iS	22.18.46			
10	TRIN	eP	04.51.25		33.7°	USCGS Gives H: 04.45.27
		i	04.53.52			E: 22.7°S 63.1°W
						Depth: About 519 km.
	GREN	iP	04.51.34	d	35.0°	
		e	04.56.33			
	ST. VIN	iP	04.51.43	d	36.2°	
		e	04.53.57			
		e	04.56.46			
	BARB	eP	04.51.49		36.4°	
	ANT	eP	04.52.14		39.9°	
	ST. KIT	eP	04.52.16		40.0°	
10	TRIN	eP	08.23.26		1.3°	
		iS	08.23.40			
11	ST. KIT	iP	21.45.45	c	2.1°	
		iS	21.46.06			
11	TRIN	iP	22.15.24	c	1.14°	Felt: Trinidad
						Intensity IV
	GREN	iP	22.15.25	d	1.15°	H: 22.15.08
						E: 11.3°N 61.9°W
	ST. VIN	iP	22.15.38		2.16°	Depth: About 90 km.
		iS	22.15.59			Magnitude: 6.1
	BARB	iP	22.15.54	d	3.01°	
		iS	22.16.24			
		i	22.16.45			
	ST. KIT	eP	22.16.35		6.17°	
		iP	22.16.37			
		i	22.17.12			
11	ST. KIT	eP	22.21.54		3.1°	
		eS	22.22.26			
11	TRIN	iP	22.34.07	c	1.3°	
		eS	22.34.20			
	GREN	iP	22.34.24		2.5°	

DATE 1961 SEPT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
12	TRIN	iP	20.48.41		0.7°	
		iS	20.48.48			
12	ST. KIT	iP	20.58.41			
13	TRIN	iP	02.08.04		1.39°	H: 02.07.44
		iS	02.08.17			E: 10.7°N 62.8°W
						Depth: About 50 km.
	GREN	iP	02.08.09	d	1.71°	Magnitude: 5.3
		iS	02.08.27			
	ST. VIN	eP	02.08.25		2.88°	
		i	02.09.01			
13	TRIN	iP	06.51.41		1.36°	H: 06.51.22
		iS	06.51.55			E: 10.8°N 62.7°W
						Depth: About 50 km.
	GREN	iP	06.51.45	d	1.59°	Magnitude: 4.4
		iS	06.52.01			
	ST. VIN	eP	06.52.01		2.75°	
		e(S)	06.52.34			
13	GREN	eP	21.28.49			
	ST. VIN	eP	21.28.56			
14	GREN	eP	00.06.28		2.31°	H: 00.05.55
		iP	00.06.30			E: 10.9°N 63.8°W
		iS	00.06.51			Depth: About 50 km.
						Magnitude: 5.2
	TRIN	iP	00.06.28	c	2.37°	
		iS	00.06.52			
	ST. VIN	eP	00.06.41		3.33°	
14	ST. KIT	iP	07.16.10			
14.	TRIN	eP	13.11.52			
14	TRIN	eP	18.06.47			

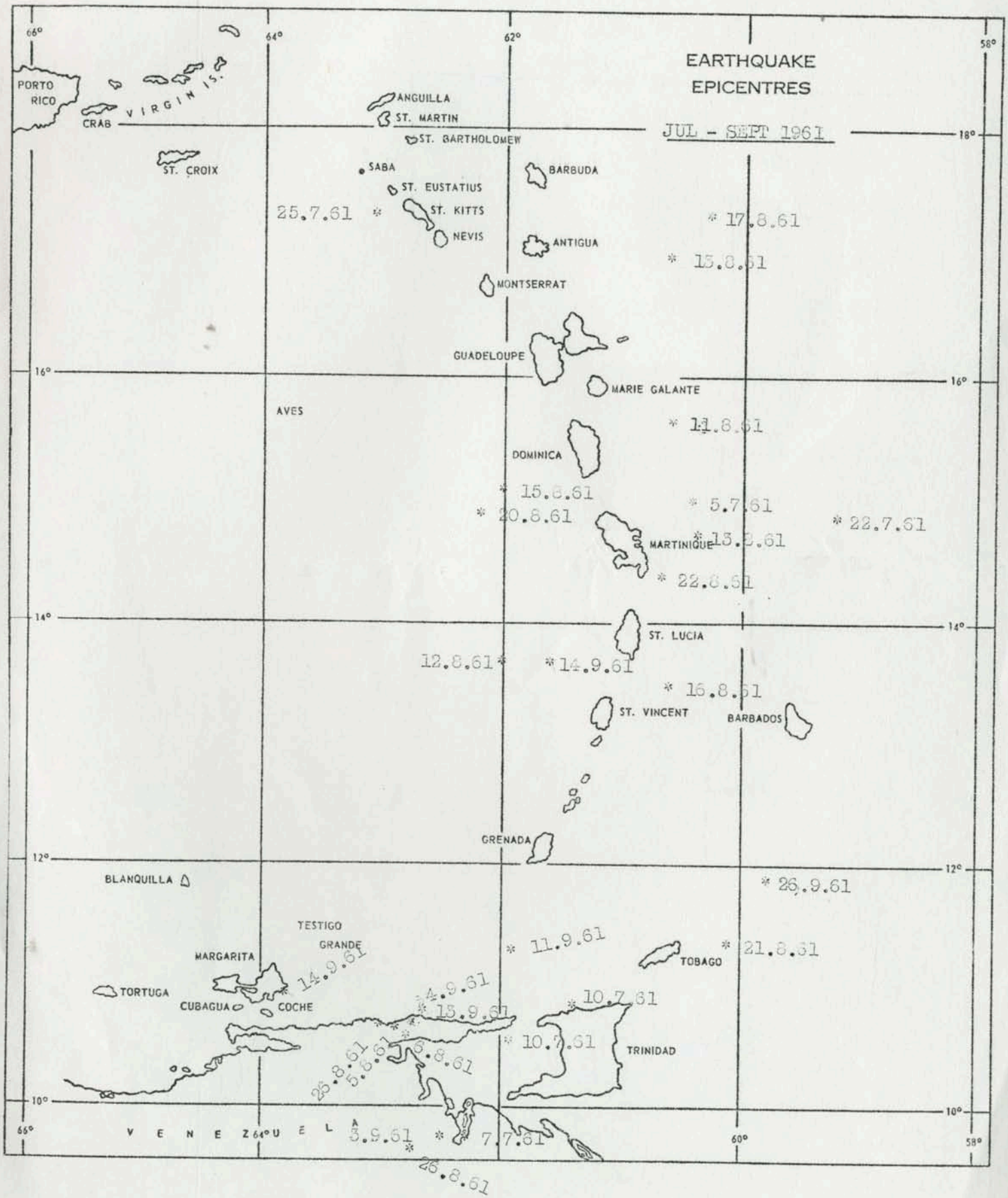
DATE 1961 SEPT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
14	ST. VIN	iP	23.12.23		1.47°	H: 23.12.02
		iS	23.12.36			E: 13.7°N 61.6°W
						Depth: About 150 km.
	GREN	iP	23.12.31		2.10°	Magnitude: 5.0
		iS	23.12.52			
	TRIN	iP	23.12.48	d	3.28°	
		eS	23.13.18			
15	ST. KIT	eP	01.58.47		84.9°	USCGS Gives H: 01.46.08
	ST. VIN	eP	01.58.54		86.5°	E: 35.1°N 33.9°E
						Depth: About 25 km.
	GREN	eP	01.58.59		87.6°	
	TRIN	eP	01.59.03		88.0°	
15	ST. VIN	eP	07.59.48		1.2°	
		iS	08.00.00			
15	ST. VIN	iP	21.28.47		1.0°	Small
		iS	21.39.03			
16	GREN	e	07.27.43			
		i	07.28.05			
16	ST. VIN	eP	13.50.17			
	GREN	e	13.50.54			
17	GREN	e	06.01.30			
		i	06.01.57			
17	ANT	eP	06.08.55			
	ST. KIT	iP	06.09.00			
17	ST. KIT	eP'	23.41.50		148.6°	USCGS Gives H: 23.22.06
	ANT	eP'	23.41.53		149.3°	E: 5.9°S 147.4°E
						Depth: About 45 km.
	ST. VIN	iP'	23.41.55	d	150.6°	

DATE 1961 SEPT	STATION	PHASE	TIME. G.M.T.	MOTION	DISTANCE	
19	GREN	iP	02.31.34	d	32.2°	USCGS Gives H: 02.25.49 E: 20.3°S 63.2°W Depth: About 609 km.
	ST. VIN	iP	02.31.44		33.6°	
		e	02.37.15			
	BARB	eP	02.31.48		33.7°	
	ANT	iP	02.32.14		37.5°	
		e	02.37.23			
	ST. KIT	iP	02.32.15		37.9°	
		i	02.37.21			
19	GREN	e	07.12.15			
19	GREN	iP	09.51.02	c	21.3°	USCGS Gives H: 09.46.18 E: 6.7°N 82.4°W Depth: About 33 km
	ST. VIN	eP	09.51.11		21.8°	
	ST. KIT	iP	09.51.14		21.9°	
	BARB	eP	09.51.31	c	23.5°	
19	GREN	eP	10.03.26		1.6°	
		iS	10.03.42			
20	ST. KIT	iP	01.42.01			
22	GREN	iP	13.01.43		1.6°	
		iS	13.01.59			
22	TRIN	iP	18.51.41		1.1°	
		iS	18.51.52			
22	GREN	iP	19.51.23		2.9°	
		iS	19.51.53			
23	ST. KIT	iP	03.30.23		0.5°	
		i	03.31.55			
	ANT	iP	03.30.(29)		(1.0°)	
		iS	03.30.(40)			
23	DOM	eP	23.33.(53)		(0.4°)	
		iP	23.33.(54)			
		iS	23.33.(58)			

DATE 1961 SEPT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
24	TRIN	eP	04.25.16		1.2°	
		iS	04.25.28			
24	GREN	eP	17.04.23		74.7°	USCGS Gives H:16.52.41 E: 56.5°S 26.2°W Depth: About 25 km
	ST. KIT	eP	17.04.52.		80.4°	Small
24	ST. VIN	eP	18.47.34			
24	ST. KIT	eP	19.11.19		34.0°	Felt: Chilpanciago and Federal district.
	ST. VIN	eP	19.11.36		36.3°	USCGS Gives H: 19.04.41 E: 18.4°N 98.6°W Depth: About 81 km.
	GREN	eP	19.11.(37)		36.0°	
	TRIN	eP	19.11.41		37.1°	
26	BARB	eP	15.52.28		1.22°	H: 15.52.09 E: 11.9°N 59.7°W Magnitude:(5.9)
		iP	15.52.35			
		iS	15.52.41			
	ST. VIN	iP	15.52.37	c	2.03°	
		iS	15.52.56			
	GREN	iP	15.52.38		2.06°	
		iS	15.53.01			
	TRIN	iP	15.52.(45)	d	2.14°	
		iS	15.53.(09)			
	DOM	eP	15.53.03		3.79°	
		eS	15.53.42			
	ANT	eP	15.53.28		5.64°	
		eS	15.54.27			
27	GREN	eP	02.03.(13)		40.5°	USCGS Gives H: 01.55.32 E: 19.2°N 105.1°W Depth: About 54 km.
27	ST. KIT	iP	02.07.08		1.6°	
		iS	02.07.24			
	ANT	eP	02.07.(13)		(1.9°)	
27	TRIN	eP	08.37.(10)			
	GREN	eP	08.37.(17)			

DATE 1961 SEPT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
27	ST. VIN	iP	12.19.34		78.3°	USCGS Gives H: 12.07.39 E: 59.4° S 24.2° W
	DOM	eP	12.19.45		80.5°	Depth: About 110 km.
27	DOM	eP	14.09.07			
27	ANT	eP	19.39.(52)		86.7°	USCGS Gives H: 19.27.01 E: 52.2° N 168.7° W
	ST. VIN	eP	19.40.03		89.7°	Depth: About 22 km
28	ST. KIT	iP	00.30.59	c	1.3°	
		iS	00.31.13			
	ANT	iP	00.31.(07)		(1.9°)	
		iS	00.31.(27)			
28	TRIN	eP'	01.43.(59)		162.0°	USCGS Gives H: 01.24.00 E: 3.9° S 102.0° E Depth: About 78 km.
28	ST. KIT	eP	09.25.59		0.3°	
		iS	09.26.03			
29	ST. KIT	iP	02.05.32		1.0°	
		iS	02.05.43			
	ANT	iP	02.05.(38)		(1.4°)	
29	TRIN	eP'	09.04.(59)		145.4°	USCGS Gives H: 08.45.27 E: 13.8° N 94.0° E Depth: About 133 km.
29	TRIN	iP	10.58.(42)	c	(0.8°)	
		iS	10.58.(50)			
29	DOM	iP	11.22.41			
29	TRIN	iP	15.29.49	c	1.6°	
		iS	15.30.05			
29	TRIN	eP'	19.26.10		168.4°	USCGS Gives H: 19.06.13 E: 0.5° N 122.4° E Depth: About 110 km
		e	19.26.32			

DATE 1961 SEPT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
29	TRIN	iP	22.42.35	c	20.0°	USCGS Gives H: 22.38 .06 E: 1.7°N 79.3°W Depth; About 60 km.
	GREN	iP	22.42.37		20.3°	
29.36	ST. VIN	iP	22.42.47	d	21.7°	
	DOM	eP	22.43.03		22.4°	
	ST. KIT	eP	22.43.03		22.7°	
	ANT	eP	22.43.(09)		23.3°	
30	ST. KIT	iP iS	00.10.09 00.10.13	c	0.5°	
	ANT	iP iS	00.10.(12) 00.10.(20)	c	(0.8°)	
30	TRIN	eP	07.32.33		1.3°	
	GREN	eP iS	07.32.50 07.33.15		2.5°	
	ST. VIN	e	07.33.(03)			Small
30	TRIN	iP iS	14.53.06 14.53.19	c	1.3°	
	ST. VIN	eP	14.53.27		2.8°	



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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Regional Research Centre,

Trinidad, West Indies.

OCT 1961

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRN)*	LAT.	10°	39.0'N	LONG.	61°	24.1'W	27m.
GRENADA	(GRE)	LAT.	12°	02.7'N	LONG.	61°	44.1'W	30m.
ST. VINCENT	(SVI)	LAT.	13°	10.2'N	LONG.	61°	15.5'W	10m.
BARBADOS	(BRB)	LAT.	13°	07.4'N	LONG.	59°	35.6'W	70m.
DOMINICA	(DOM)	LAT.	15°	17.7'N	LONG.	61°	23.5'W	40m.
ANTIGUA	(ANI)	LAT.	17°	08.6'N	LONG.	61°	50.1'W	27m.
ST. KITTS	(SKI)	LAT.	17°	20.3'N	LONG.	62°	43.7'W	
HOPE, JAMAICA	(HOP)	LAT.	18°	01' N	LONG.	76°	45' W	200m.
BEVERLEY, JAMAICA	(BEV)	LAT.	18°	27' N	LONG.	77°	18' W	123m.
BLACK RIVER, JAMAICA	(BRJ)	LAT.	18°	02' N	LONG.	77°	52' W	8m.

EQUIPMENT

Trinidad is equipped with three components of Willmore Watts 1 second period seismometers and ¼ second period galvanometers recording at 60mm/min.

All other stations have similar equipment recording vertical component only.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

* The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

Intensity Scale in use: Modified Mercalli Intensity Scale.

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
2	GRE	eP	09.24.07		1.8°	
		iS	09.24.26			
2	SKI	iP	12.			
2	SKI	iP	12.21.10			
	AWI	eP	12.21.(23)			
		iP	12.21.(31)			
	GRE	eP	12.22.07			
2	SKI	eP	21.16.55		4.0°	
		iS	21.17.36			
	AWI	eP	21.17.(08)		(6.7°)	
	DOM	e	21.17.34			
3	SVI	eP	04.04.54			
		e	04.05.35			
3	AWI	iP	04.44.16		0.7°	
		iS	04.44.23			
	SKI	iP	04.44.18		1.3°	
		iS	04.44.31			
	DOM	e	04.44.35			
3	SKI	iP	08.43.09			
3	AWI	iP	16.58.11		1.4°	
		iS	16.58.25			
	SKI	iP	16.58.24		2.0°	
		iS	16.58.45			
3	SKI	iP	17.03.33	c	0.4°	
	AWI	iP	17.03.39		0.7°	
		iS	17.03.46			
3	TRN	iP	20.36.23	c	2.05°	H: 20.35.54
	SVI	eP	20.36.52		4.16°	E: 9.4°N 63.0°W
		i	20.37.52			Magnitude: 6.3
	DOM	e	20.37.21		6.11°	Small
	AWI	eP	20.37.(45)		7.82°	
	SKI	iP	20.37.46		7.93°	

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
3	AWI	eP	22.48.18		1.2°	
3	AWI	eP	22.48.44	c	1.0°	
		iS	22.48.54			
	SKI	iP	22.48.54		2.1°	
		iS	22.49.16			
	DOM	e	22.49.07			
3	AWI	eP	22.52.43		1.1°	
		iS	22.52.55			
	SKI	eP	22.52.53		2.1°	
		eS	22.53.15			
4	AWI	eP	03.06.(36)			
	SKI	iP	03.06.42			
4	AWI	iP	03.38.54	c	1.1°	
		iS	03.39.05			
	SKI	iP	03.39.05		2.1°	
		iS	03.39.27			
4	AWI	iP	17.28.51		2.23°	H:17.28.20
		iS	17.29.14			E:16.2°N 62.0°W
	DOM	iP	17.28.51		2.29°	Depth:About 225 km
						Magnitude:5.2
	SKI	iP	17.28.54	c	2.38°	
		iS	17;29.19			
	SVI	iP	17.29.12		3.70°	
6	SKI	iP	23.39.19			
7	TRN	eP	06.55.48			
		i	06.56.15			
7	TRN	eP	10.00.45		22.0°	USCGS Gives H:09.55.54
	GRE	eP	10.00.48		22.2	E:0.4°S 80.2°W
	DOM	eP	10.01.10		24.0°	Depth:About 48 km
	SKI	eP	10.01.14		25.0°	

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
7	TRN	eP	11.25.33		2.3°	
		iS	11.25.57			
	SVI	iP	11.25.48		3.0°	
		eS	11.26.18			
8	AWI	iP	03.06.07		1.8°	
		iS	03.06.26			
	SKI	iP	03.06.10		1.8°	
		iS	03.06.28			
8	AWI	iP	08.48.39		2.04°	H:08.48.10
		iS	08.48.59			E:16.2°N 62.0°W
	DOM	eP	08.48.39		2.07°	Depth:About 200 km
						Magnitude:5.7
	SKI	iP	08.48.43	c	2.27°	
		iS	08.49.07			
	BRB	e	08.49.46		4.20°	Very small
8	GRE	eP	12.49.28		43.0°	USCGS Gives H:12.41.35
	SKI	eP	12.50.05		47.8°	E:29.9°S 71.8°W
						Depth:About 65 km
8	TRN	iP	20.33.(57)	d	(1.1°)	
		iS	20.34.(08)			
9	TRN	eP'	00.01.(30)		165.0°	USCGS GivesH:23.41.32
						E:1.6°N 127.3°E
						Depth:About 102 km
9	AWI	eP	05.38.(55)		(0.9°)	
	SKI	iP	05.39.03		1.5°	
		iS	05.39.18			
9	TRN	iP	15.11.(40)		(1.3°)	
		iS	15.11.(54)			
10	TRN	eP'	08.45.(12)		144.5°	USCGS Gives H:08.25.55
						E:5.4°S 154.3°E
						Depth:About 154 km

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
10	DOM	iP	12.32.14		1,51°	H:12.31.53
	AWI	eP	12.32.21		2.01°	E:15.9°N 61.0°W
		iP	12.32.23			Depth:About 150 km
						Magnitude:5.1
	SKI	iP	12.32.30		2.58°	
		iS	12.32.56			
	SVI	e(P)	12.32.41		3.02°	
11	SKI	iP	22.03.40		1.8°	
		iS	22.03.59			
	AWI	iP	22.03.50		2.9°	
		iS	22.04.20			
12	AWI	iP	08.03.12		1.0°	
		iS	08.03.22			
	SKI	eP	08.03.24		1.8°	
		iS	08.03.42			
	DOM	e	08.03.45			
12	SKI	iP	13.54.05	d	2.63°	H;13.53.28
		iS	13.54.29			E:18.8°N 65.6°W
	AWI	iP	13.54.17	d	3.45°	Depth:About 50 km
		iS	13.54.53			Magnitude:6.3
						Felt:San Juan, Puerto Rico
	DOM	iP	13.54.37	d	4.92°	
		iS	13.55.27			
	SVI	iP	13.55.01	d	6.67°	
		T	14.00.23			
	GRE	iP	13.55.(14)	d	7.42°	
		T	14.01.19			
12	TRN	iP	14.09.55		1.62°	H:14.09.32
	GRE	iP	14.10.01		2.03°	E:10.5°N 63.0°W
						Depth:About 50 km
	SVI	iP	14.10.17		3.19°	Magnitude:6.3
		iS	14.10.48			
	DOM	iP	14.10.43	d	5.05°	
		iS	14.11.34			
	AWI	eP	14.11.09		6.73°	
		iP	14.11.12			
		iS	14.12.19			
	SKI	iP	14.11.09		6.84°	
		iS	14.12.20			

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
12	TRN	eP	16.06.58		1.2°	
		iS	16.07.11			
13	TRN	eP	05.10.25		72.5°	USCGS GivesH:04.59.05 E:55.9°S 27.2°W Depth:About 67 km
	GRE	iP	05.10.32		73.9°	
	SVI	eP	05.10.38		75.0°	
	SKI	iP	05.11.03		79.8°	
13	TRN	eP	10.58.20		74.0°	USCGS Gives H:10.46.48 E:60.3°S 34.3°W Depth:About 44 km
	GRE	eP	10.58.27		75.2°	Small
13	TRN	e	18.58.27			
		i	18.58.51			
14	DOM	eP	04.02.28		0.5°	
		iS	04.02.31			
14	SVI	iP	15.24.54		1.4°	
		iS	15.25.09			
	TRN	eP	15.25.31		4.1°	
14	TRN	eP	16.39.51		0.9°	
		iS	16.40.00			
15	TRN	iP	05.09.25	c	1.4°	
		iS	05.09.40			
15	TRN	eP	07.37.13			
15	DOM	e	09.24.11			
15	AWI	iP	21.14.32	c	0.5°	
		iS	21.14.37			
	SKI	iP	21.14.45		1.5°	
		iS	21.15.01			

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
16	SKI	iP	08.10.45	c	1.69°	H:08.10.21
	AWI	iP iS	08.10.46 08.11.02		1.72°	E:17.9°N 62.2°W Depth:About 170 km Magnitude:5.7
	DOM	iP iS	08.11.04 08.11.33	c	3.12°	
	SVI	iP	08.11.32		5.06°	
	BRB	eP	08.11.42		5.61°	
	GRE	iP	08.11.47	d	6.07°	
	TRN	eP iP	08.12.07 08.12.10		7.49°	
16	TRN	eP	18.32.28			
17	AWI	iP iS	01.19.18 01.19.32		1.47°	H:01.18.58 E:17.3°N 60.3°W Magnitude:(5.3)
	DOM	eP	01.19.29		2.22°	
	SKI	eP iS	01.19.31 01.19.55		2.31°	
18	TRN	iP iS	08.41.20 08.41.26	d	0.6°	
18	TRN	eP eS	08.49.55 08.50.07		1.2°	
18	GRE	iP	17.00.49		49.6°	Minor damage in area between Curico and Valdivia.
	SVI	iP	17.00.57		50.9°	
	BRB	eP	17.01.04		51.0°	Small
	DOM	eP	17.01.12		53.0°	USCGS Gives H:16.52.00 E:36.7°S 72.6°W Depth:About 67 km
	AWI	eP	17.01.18		54.5°	
	SKI	eP	17.01.19		54.6°	
18	GRE	eP	18.19.22		50.1°	USCGS Gives H:18.10.30 E:36.9°S 73.5°W Depth:About 55 km
	SVI	eP	18.19.30		51.5°	
	SKI	eP	18.19.44		55.0°	

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
19	GREN	eP	08.40.19		50.0°	USCGS Gives H:08.31.29 E:36.9°S 72.7°W Depth:About 61 km
19	GRE	eP	11.27.57		49.8°	USCGS Gives H:11.19.20 E:37.1°S 69.8°W Depth:About 155 km
		iP	11.27.59			
	SVI	eP	11.28.08		51.0°	
	DOM	eP	11.28.21		53.0°	
	SKI	eP	11.28.35		54.6°	
		e	11.29.11			
19	DOM	e	11.40.51			
19	TRN	eP	18.03.42			
		i	18.06.28			
		e	18.08.29			
20	TRN	eP	14.30.10			
21	TRN	eP	01.52.28			
22	GRE	eP	18.23.43			
22	TRN	eP	19.02.00			Small
22	GRE	eP	19.05.36			
22	TRN	eP	19.21.41		1.2°	Very small
		eS	19.21.53			
23	TRN	eP	00.20.10		74.2°	USCGS Gives H:00.08.33 E:60.4°S 33.4°W Depth:About 25 km
	GRE	eP	00.20.22		75.8°	
	SVI	eP	00.20.33		77.0°	
	DOM	eP	00.20.39		79.0°	
	AWI	eP	00.20.47		81.0°	
	SKI	eP	00.20.50		81.2°	

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
23	SKI	iP	08.48.21		1.3	
	AWI	eP	08.48.24		1.5°	
		iS	08.48.40			
23	TRN	eP	12.12.29		1.5°	
		eS	12.12.45			
23	BRB	e	14.13.13			Small
23	AWI	eP	14.59.38			
23	SVI	iP	17.27.55		1.22°	H:17.27.38 E:14.0°N 60.4°W Magnitude:(4.6)
		iS	17.28.08			
	BRB	eP	17.27.57		1.17	Very small
	GRE	iP	17.28.12		2.39°	
		iS	17.28.37			
23	GRE	iP	21.09.38	d	1.6°	
		iS	21.09.54			
24	GRE	iP	00.20.56		3.0°	
		iS	00.21.27			
24	GRE	iP	04.55.33		1.9°	
		iS	04.55.53			
24	DOM	eP	09.18.05		1.33°	H:09.17.46 E:15.2°N 60.0°W Magnitude:(4.8)
		iS	09.18.19			
	SVI	eP	09.18.19		2.32°	
		eS	09.18.42			
	AWI	eP	09.18.(26)		2.64°	
		eS	09.18.59			
	SKI	eP	09.18.34		3.38°	
		eS	09.19.13			
24	TRN	eP	23.31.09		1.1°	
		iS	23.31.20			

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
25	TRN	eP	03.48.01		1.9°	
		iS	03.48.21			
	GRE	e	03.48.06			Small
	SVI	e	03.48.42			
25	GRE	iP	04.08.51	d		
25	DOM	eP	06.09.11			
25	SKI	iP	06.09.16		0.3°	
		iS	06.09.19			
	AWI	iP	06.09.24		0.9°	
		iS	06.09.34			
25	SKI	iP	06.13.01		0.3°	
		iS	06.13.05			
	AWI	iP	06.13.09		0.9°	
		iS	06.13.19			
25	TRN	eP	09.00.05		26.4°	USCGS Gives H:08.54.37 E:9.7°S 78.6°W Depth:About 110 km
		e	09.08.04			
	GRE	eI	09.00.13		27.5°	
	BRB	eP	09.00.36		29.5°	
	SVI	eP	09.00.38		28.9°	
	SKI	eP	09.00.46		31.2°	
	AWI	eP	09.00.47		31.5°	
		i	09.01.11			
	DOM	e	09.00.52		30.2°	
25	SKI	iP	09.04.59		0.5°	
	AWI	eP	09.05.06		1.0°	
		iS	09.05.16			
25	SKI	iP	23.08.29			

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
26	SKI	iP	00.36.55		0.4°	
		iS	00.36.58			
	AWI	iP	00.37.03	d	0.8°	
		iS	00.37.11			
	DOM	e	00.37.34			
26	SKI	iP	00.41.10		0.3°	
		iS	00.41.13			
	AWI	iP	00.41.18		0.9°	
	DOM	e	00.41.46			
26	SKI	iP	00.55.59		0.5°	
	AWI	iP	00.56.06		1.0°	
		iS	00.56.16			
26	DOM	e	00.57.51		149.0°	USCGS Gives H:00.38.20 E:3.1°S 147.4°E Depth:About 14 km
	SKI	eP'	00.58.05		146.9°	
	AWI	eP'	00.58.06		148.0°	
	TRN	eP'	00.58.10		150.2°	
	SVI	eP_2'	00.58.23		149.6°	Small
26	TRN	iP	03.12.43	c	0.6°	
		iS	03.12.49			
26	SKI	iP	05.55.14		0.3°	
	AWI	eP	05.55.23		0.9°	
		iS	05.55.33			
26	GRE	eP	08.25.01		50.8°	USCGS Gives H:08.16.03 E:37.9°S 73.4°W Depth:About 55 km
26	TRN	eP	18.48.49			
26	SVI	eP	19.18.40		0.5°	
		iS	19.18.46			
	TRN	eP	19.18.44		0.8°	

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
26	TRN	eP	21.59.06		12.0°	USCGS Gives H:21.56.18
		i	21.59.13			E:6.9°N 73.1°W
		e	22.01.36			Depth:About 167 km
	SVI	eP	21.59.19		12.8°	
	DOM	eP	21.59.32		14.0°	
	SKI	eP	21.59.34		14.2°	
	BRB	eP	21.59.41		14.3°	
	AWI	eP	21.59.(43)		14.7°	
26	SKI	iP	22.21.20			
	AWI	eP	22.21.28			
27	TRN	iP	00.46.21	d	0.5°	
		iS	00.46.26			
27	SKI	eP	01.00.28		1.5°	
		iS	01.00.44			
	AWI	iP	01.00.28		1.5°	
27	AWI	iP	07.33.13	d	1.2°	
		iS	07.33.25			
	SKI	iP	07.33.23	d	1.8°	
		iS	07.33.41			
	DOM	e	07.33.44			
27	SKI	iP	23.18.58		3.0°	
		iS	23.19.29			
28	DOM	iP	10.18.11		0.96°	H:10.17.57
		iS	10.18.26			E:15.0°N 60.5°W
	SVI	iP	10.18.25		1.96°	Magnitude:5.5
		iS	10.18.48			
	BRB	e	10.18.31		2.02°	Very small
	GRE	iP	10.18.42		3.17°	
		i	10.19.24			
	SKI	iP	10.18.43	c	3.22°	
		iS	10.19.19			
	TRN	eP	10.19.(04)		4.41°	

DATE 1961 OCT	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
29	SKI	eP	09.22.32		61.4°	USCGS Gives H:09.12.16
	AWI	eP	09.22.34		62.0°	E:49.0°N 128.7°W
	DOM	eP	09.22.49		63.8°	Depth:About 16 km
	TRN	eP	09.23.09		67.2°	
29	TRN	eP	15.32.47			
		i	15.33.27			
29	SKI	iP	20.34.24	c	0.4°	
		iS	20.34.28			
29	SKI	iP	20.38.20		0.3°	
		iS	20.38.23			
29	SKI	eP	23.50.39		1.4°	
		iS	23.50.53			
30	TRN	iP	03.56.25			
30	DOM	eP	20.26.39		2.19°	H:20.26.08
		eS	20.27.06			E:16.4°N 59.5°W
	AWI	iP	20.26.42		2.40°	Magnitude:4.7
		iS	20.27.13			
	SKI	eP	20.26.55		3.27°	
		iS	20.27.34			
	SVI	eP	20.27.00		3.69°	
		eS	20.27.39			
30	AWI	eP'	22.55.20		129.0°	USCGS Gives H:22.36.20
	DOM	eP'	22.55.28		130.4°	E:29.3°N 141.8°E
	SKI	e	22.55.32		128.0°	Depth:About 80 km
31	SKI	iP	09.36.35		1.0°	
		iS	09.36.45			
	AWI	iP	09.36.40		1.5°	
		eS	09.36.56			
31	TRN	eP	12.20.35			
31	TRN	iP	21.10.39		0.6°	
		iS	21.10.45			

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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Regional Research Centre,

Trinidad, West Indies.

- NOV 1981

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRIN)*	LAT.	10° 39.0' N	LONG.	61° 24.1' W	27m.
GRENADA	(GREN)	LAT.	12° 02.7' N	LONG.	61° 44.1' W	30m.
ST. VINCENT	(ST. VIN)	LAT.	13° 10.2' N	LONG.	61° 15.5' W	10m.
BARBADOS	(BARB)	LAT.	13° 07.4' N	LONG.	59° 35.6' W	70m
DOMINICA	(DOM)	LAT.	15° 17.7' N	LONG.	61° 23.5' W	40m
ANTIGUA	(ANT)	LAT.	17° 08.6' N	LONG.	61° 50.1' W	27m
ST. KITTS	(ST. KIT)	LAT.	17° 20.3' N	LONG.	62° 43.7' W	

EQUIPMENT

All stations are equipped with Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

EPICENTRES are quoted to the first decimal place of a degree when this is justified, other wise to one half of a degree.

Depths are quoted to one kilometer and origin times to one tenth of a second.

Intensity Scale in use: Modified Mercalli Intensity Scale.

*The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West.

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
NOV 1	DOM	eP	09.26.51		0.6°	
	AWI	eP	09.27.12		02.2°	
		iS	09.27.35			
	SKI	e	09.27.49			
1	DOM	eP	09.28.21		0.6°	
	AWI	eP	09.28.42		02.1°	
		iS	09.29.04			
1	TRN	iP	11.48.33		1.2°	Very Small
		iS	11.48.45			
1	AWI	iP	23.30.45	d	0.9°	
		iS	23.30.53			
	SKI	eP	23.30.49		1.1°	
		iS	23.31.01			
2	SKI	iP	13.30.14		0.3°	
		iS	13.30.18			
2	SVI	eP	15.43.38			
2	SKI	iP	15.48.48		0.3°	
		iS	15.48.51			
	AWI	iP	15.48.54		1.0°	
		iS	15.49.04			
2	SKI	iP	23.03.58		0.12°	H: 23.03.56
	AWI	iP	23.04.08	d	0.80°	E: 17.2°N 62.7°W
	DOM	iP	23.04.28	d	2.27°	Depth: About 10 km
		i	23.04.58			Magnitude: 6.3
	SVI	eP	23.04.56		4.25°	
		i	23.08.33			
	BRB	eP	23.05.(13)		5.07°	
	GRE	eP	23.05.09		5.23°	
		iP	23.05.10			
		i	23.10.10			
	TRN	eP	23.05.31		6.66°	
		iP	23.05.32			
		eS	23.06.42			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 2	SKI	iP	23.07.(23)		(0.5°)	Leewar Islands aftershock
	AWI	iP	23.07.30		0.9°	
		iS	23.07.39			
2	SKI	iP	23.14.20		0.3°	Leeward Island aftershock
		iS	23.14.23			
	AWI	iP	23.14.26		0.9°	
		eS	23.14.36			
2	SKI	iP	23.15.35		0.5°	Leeward Island aftersho
	AWI	iP	23.15.41		1.0°	
		iS	23.15.51			
2	SKI	iP	23.16.04		0.5°	Leeward Island aftershock
	AWI	iP	23.16.11		0.9°	
		iS	23.16.21			
2	SKI	iP	23.16.46		0.5°	Leeward Island aftershock
	AWI	iS	23.16.53		1.0°	
		iS	23.17.03			
2	SKI	iP	23.19.21		0.3°	Leeward Island aftersho
		iS	23.19.24			
A	AWI	eP	23.19.29		1.0°	
		iS	23.19.39			
2	SKI	iP	23.22.38		0.19°	H: 23.22.35
	AWI	iP	23.22.44	d	0.67°	E: 17.5°N 62.5°W
	DOM	eP	23.23.09		2.39°	Depth: About 10 km
						Magnitude: 4.3
2	SKI	iP	23.25.05		0.3°	Leeward Island aftershock
		iS	23.25.09			
	AWI	iP	23.25.12	d	1.0°	
		iS	23.25.23			
2	SKI	iP	23.26.19		0.4°	Leeward Island aftershock
	AWI	iP	23.26.26		0.9°	
		iS	23.26.35			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 2	SKI	eP	23.28.51		0.4°	Leeward Islands aftershock
		iS	23.28.55			
2	SKI	iP	23.29.07		0.3°	Leeward Islands aftershock
		iS	23.29.11			
	AWI	eP	23.29.14		0.9°	
		iS	23.29.24			
2	SKI	iP	23.30.11		0.3°	Leeward Islands aftershock
		iS	23.30.14			
	AWI	eP	23.30.18		0.9°	
		iS	23.30.28			
2	SKI	eP	23.31.56		0.3°	Leeward Islands aftershock
		iS	23.31.59			
2	SKI	iP	23.34.54			Leeward Islands aftershock
2	SKI	iP	23.36.37		0.3°	Leeward Islands aftershock
		iS	23.36.40			
2	SKI	iP	23.38.41			Leeward Islands aftershock
2	SKI	iP	23.40.30		0.2°	Leeward Islands aftershock
		iS	23.40.32			
	AWI	eP	23.40.39		1.0°	
		iS	23.40.49			
2	SKI	iP	23.42.44		0.4°	Leeward Islands aftershock
		iS	23.42.48			
2	SKI	iP	23.44.40		0.7°	Leeward Islands aftershock
	AWI	iP	23.44.45		1.1°	
		iS	23.44.57			
2	SKI	iP	23.45.59		0.7°	Leeward Islands aftershock
		iS	23.46.06			
2	SKI	iP	23.51.53		0.6°	Leeward Islands aftershock
	AWI	iP	23.51.58		1.0°	
		iS	23.52.09			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 2	SKI	eP	23.55.33		0.5°	Leeward Islands aftershock
		iS	23.55.39			
3	SKI	eP	00.02.35		0.7°	Leeward Islands aftershock
		iS	00.02.43			
3	SKI	eP	00.19.47		0.4°	Leeward Islands aftershock
		iS	00.19.51			
	AWI	iP	00.19.53		0.8°	
3	SKI	eP	00.26.26		0.4°	Leeward Islands aftershock
		iS	00.26.30			
3	SKI	iP	00.28.19		0.3°	Leeward Islands aftershock
		iS	00.28.23			
	AWI	eP	00.28.27		1.0°	
		iS	00.28.37			
3	SKI	iP	00.35.12		0.5°	Leeward Islands aftershock
		iS	00.35.16			
	AWI	iP	00.35.19		1.0°	
		iS	00.35.29			
3	SKI	iP	00.54.52		0.5°	Leeward Islands aftershock
		iS	00.54.56			
3	SKI	eP	01.41.06		0.3°	Leeward Islands aftershock
		iS	01.41.09			
3	SKI	iP	01.42.13		0.4°	Leeward Islands aftershock
		iS	01.42.17			
	AWI	iP	01.42.21		0.9°	
3	SKI	iP	01.58.12		0.3°	Leeward Islands aftershock
		iS	01.58.15			
3	SKI	iP	02.01.39		0.6°	Leeward Islands aftershock
		iS	02.01.45			
	AWI	iP	02.01.48		1.0°	
		iS	02.01.59			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 3	SKI	iP	02.03.06		0.4°	Leeward Islands aftershock
		iS	02.03.10			
	AWI	iP	02.03.12		1.0°	
		iS	02.03.22			
3	SKI	iP	02.05.26		0.4°	Leeward Islands aftershock
		iS	02.05.30			
	AWI	eP	02.05.32		0.9°	
3	SKI	iP	02.50.08		0.3°	Leeward Islands aftershock
		iS	02.50.11			
	AWI	eP	02.50.14		0.8°	
3	SKI	iP	03.06.21		0.3°	Leeward Islands aftershock
		iS	03.06.24			
	AWI	eP	03.06.28		0.9°	
		iS	03.06.38			
3	SKI	iP	03.09.27		0.4°	Leeward Islands aftershock
		iS	03.09.31			
3	SKI	eP	03.33.01		0.4°	Leeward Islands aftershock
		iS	03.33.05			
3	SKI	iP	03.36.26		0.4°	Leeward Islands aftershock
		iS	03.36.31			
	AWI	eP	03.36.32		0.8°	
3	SKI	iP	03.57.52		0.23°	H: 03.57.48
	AWI	iP	03.57.59		0.74°	E: 17.6° N 62.5° W
	DOM	eP	03.58.24		2.51°	Depth: About 10 km Magnitude: 5.4
3	SKI	iP	04.21.35		0.5°	Leeward Islands aftershock
	AWI	iP	04.21.42		1.0°	
		iS	04.21.52			
3	SKI	iP	04.27.32		0.3°	Leeward Islands aftershock
		iS	04.27.35			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 3	SKI	eP	04.28.48		0.5°	Leeward Islands aftershock
		iS	04.28.54			
	AWI	iP	04.28.54		0.9°	
3	SKI	iP	04.46.56			Leeward Islands aftershock
3	SKI	iP	04.49.13	c	0.6°	Leeward Islands aftershock
		iS	04.49.19			
	AWI	iP	04.49.20	d	1.1°	
	DOM	e	04.49.49			
3	SKI	iP	05.06.52		0.3°	Leeward Islands aftershock
		iS	05.06.55			
3	SKI	iP	05.36.52		0.19°	H: 05.36.48
	AWI	iP	05.36.57	d	0.67°	E: 17.5°N 62.5°W
	DOM	eP	05.37.22		2.39°	Depth: About 10 km Magnitude: 5.4
	TRN	eP	05.38.25		6.88°	Very small
3						
3	DOM	e	05.41.38			
	SVI	eP	05.41.42			
3	SKI	iP	05.43.59		0.4°	Leeward Islands aftershock
		iS	05.44.03			
	AWI	iP	05.44.06	d	0.9°	
		iS	05.44.15			
3	SKI	iP	05.47.44		0.4°	Leeward Islands aftershock
		iS	05.47.48			
	AWI	eP	05.47.50		0.7°	
3	SKI	iP	06.08.09		0.3°	Leeward Islands aftershock
	AWI	iP	06.08.17		0.8°	
		iS	06.08.25			
3	SKI	iP	07.01.30		0.5°	Leeward Islands aftershock
		iS	07.01.35			
	AWI	iP	07.01.38		0.9°	
	DOM	e(P)	07.02.(06)		(3.0°)	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 3	SKI	eP	07.04.29		0.3°	Leeward Islands aftershock
		iS	07.04.32			
3	SKI	eP	07.14.25		0.5	Leeward Islands aftershock
		iS	07.14.30			
3	SKI	iP	07.20.38		0.3°	Leeward Islands aftershock
		iS	07.20.41			
3	SKI	iP	08.51.31			Leeward Islands aftershock
	AWI	iP	08.51.38	d		
	DOM	eP	08.52.(07)			
3	SKI	eP	08.55.01		0.5°	Leeward Islands aftershock
		iS	08.55.07			
3	SKI	iP	09.36.33	c	0.5°	Leeward Islands aftershock
		iS	09.36.39			
	AWI	iP	09.36.41		1.1°	
		iS	09.36.52			
	DOM	eP	09.37.(10)			
3	SKI	iP	09.38.10		0.23°	H: 09.38.05
		iS	09.38.16			E: 17.7°N 62.6°W
	AWI	iP	09.38.17		0.86°	Depth: About 10 km
	DOM	eP	09.38.42		2.61°	Magnitude:(5.6)
3	SKI	iP	12.12.53		0.3°	Leeward Islands aftershock
		iS	12.12.57			
	AWI	iP	12.13.00		1.0°	
		iS	12.13.11			
3	SKI	iP	12.24.34	d	0.23°	H: 12.24.30
		iS	12.24.37			E: 17.6°N 62.5°W
	AWI	iP	12.24.40	d	0.74°	Depth: About 10 km
		iS	12.24.49			Magnitude: 4.6
	DOM	eP	12.25.05		2.51°	Small

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 3	SKI	iP	14.07.36		0.4°	Leeward Islands aftershock
		iS	14.07.41			
	AWI	eP	14.07.44		0.9°	
		iS	14.07.54			
3	TRN	eP	16.05.34		2.4°	
		iP	16.05.35			
		iS	16.06.00			
	GRE	eP	16.05.48		2.9°	
		iS	16.06.18			
3	SKI	iP	16.37.49	c	0.4°	Leeward Islands aftershock
		iS	16.37.53			
	AWI	iP	16.37.58		1.1°	
		iS	16.38.09			
3	SKI	iP	19.16.36		0.5°	Leeward Islands aftershock
		iS	19.16.42			
3	SKI	iP	20.45.44		0.4°	Leeward Islands aftershock
		iS	20.45.48			
3	SKI	iP	21.04.13		0.3°	Leeward Islands aftershock
		iS	21.04.16			
	AWI	iP	21.04.19		0.7°	
3	SKI	iP	23.10.20		0.3°	Leeward Islands aftershock
		iS	23.10.23			
	AWI	eP	23.10.27		1.0°	
		iS	23.10.37			
3	SKI	iP	23.15.40		0.4°	Leeward Islands aftershock
		iS	23.15.44			
	AWI	eP	23.15.46		1.0°	
		iS	23.15.56			
4	SKI	eP	01.10.04		0.3°	Leeward Islands aftershock
		iS	01.10.08			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961 NOV 4	SKI	iP	01.55.54		0.5°	Leeward Islands aftershock
		iS	01.56.00			
	AWI	eP	01.56.00		0.9°	
		iP	01.56.02			
4	SKI	iP	03.43.47		0.4°	Leeward Islands aftershock
		iS	03.43.51			
4.	SKI	iP	04.00.30	c	0.3°	Leeward Islands aftershock
		iS	04.00.34			
	AWI	iP	04.00.37		0.9°	
		iS	04.00.47			
4	SKI	iP	04.03.46		0.4°	Leeward Islands aftershock
		iS	04.03.50			
4	SKI	iP	04.58.28			Leeward Islands aftershock
4	SKI	eP	15.10.28		0.4°	Leeward Islands aftershock
		iS	15.10.32			
4	SKI	iP	16.39.16		0.3°	Leeward Islands aftershock
		iS	16.39.19			
5	SKI	eP	00.16.09		0.3°	Leeward Islands aftershock
		iS	00.16.11			
5	SKI	iP	02.17.44		0.5°	Leeward Islands aftershock
		iS	02.17.49			
5	TRN	eP	03.06.09		0.6°	
		iS	03.06.15			
5	TRN	iP	08.32.56	c	0.6°	
		iS	08.33.02			
5	SKI	iP	08.43.48		0.3°	Leeward Islands aftershock
		iS	08.43.51			
5	SKI	eP	10.29.49		0.3°	Leeward Islands aftershock
		iS	10.29.52			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
NOV 5	GRE	iP	10.31.25	c	1.46°	H: 10.31.05
		i	10.31.44			E: 12.1°N 60.3°W
	SVI	eP	10.31.26		1.49°	Depth: About 50 km
		iP	10.31.27			Magnitude: 4.3
		i	10.31.45			
	BRB	eP	10.31.27		1.33°	
	TRN	iP	10.31.31	d	1.85°	
		iS	10.31.50			
	DOM	e	10.32.07		3.39°	
5	SKI	iP	12.59.09			
5	SKI	iP	14.20.52			
5	DOM	iP	14.54.31		1.32°	H: 14.54.12
		iS	14.54.43			E: 16.3°N 60.5°W
	SKI	eP	14.54.(50)		2.39°	Magnitude: 5.4
	SVI	eP	14.54.58		3.20°	
		eS	14.55.32			
	GRE	eP	14.55.14		4.40°	
	TRN	e	14.55.38		5.69°	Very small
5	SKI	iP	16.52.23			
	DOM	e	16.52.59			
5	TRN	e	21.10.53			Very small
5	SKI	iP	21.13.23		2.4°	
		iS	21.13.48			
	DOM	eP	21.13.29		2.8°	
5	SKI	iP	22.19.25			
5	SKI	iP	22.49.53			
6	SKI	iP	04.08.08	c	1.7°	
		iS	04.08.25			
	DOM	e	04.08.33			

			TIME G.M.T.	MOTION	DISTANCE	
NOV 6	SKI	iP	04.45.06			
6	GRE	iP	05.19.15	d		
6	GRE	eP	14.49.54		1.19°	H: 14.49.37
		iS	14.50.05			E: 11.7°N 61.7°W
	TRN	eP	14.49.59		1.53°	Depth: About 125 km
		iP	14.50.01			Magnitude: 3.5
		iS	14.50.17			
	SVI	eP	14.50.03		1.92°	
		iS	14.50.22			
6	SKI	iP	20.14.08		0.4°	
		iS	20.14.12			
	AWI	iP	20.14.15		0.9°	
6	TRN	iP	21.01.59	c	1.3°	
		iS	21.02.12			
	GRE	eP	21.02.08		1.7°	
		iS	21.02.25			
7	BRJ	e	05.36.27			
7	DOM	iP	10.35.02		1.1°	
		iS	10.35.13			
	AWI	iP	10.35.09		1.6°	
		iS	10.35.25			
7	SKI	iP	14.49.25		1.2°	
		iS	14.49.38			
	AWI	iP	14.49.34		1.9°	
		iS	14.49.53			
7	SKI	iP	23.40.09		0.14°	H: 23.40.07
						E: 17.2°N 62.6°W
	AWI	iP	23.40.17		0.72°	Depth: About 10 km
	DOM	eP	23.40.39		2.23°	Magnitude: 5.9
		iP	23.40.43			
		iS	23.40.05			
	SVI	eP	23.41.06		4.23°	
	GRE	iP	23.41.19	d	5.22°	
	BRB	eP	23.41.(20)		5.01°	
	TRN	eP	23.41.41		6.65°	
		iP	23.41.42			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
NOV 7	DOM	e	23.44.58			
	SVI	i	23.45.02			
	SKI	iP	23.45.38		0.5°	
	AWI	eP	23.45.45		1.0°	
		iS	23.45.55			
	GRE	e	23.46.21			
8	SKI	iP	00.10.50		0.3°	
		iS	00.10.52			
	AWI	iP	00.10.57		0.8°	
	DOM	e	00.11.26			
8	SKI	iP	00.30.24			
	AWI	iP	00.30.32			
8	SKI	iP	00.31.43		0.4°	
	AWI	eP	00.31.50		0.9°	
		iS	00.31.59			
8	SKI	iP	01.45.10		0.3°	
	AWI	iP	01.45.18		0.9°	
		iS	01.45.27			
8	SKI	iP	03.13.00		0.4°	
	AWI	eP	03.13.07		0.9°	
		iS	03.13.16			
8	SKI	iP	05.02.51			
	AWI	iP	05.02.58			
8	SKI	iP	05.48.(50)		0.13°	H: 05.48.48
	AWI	iP	05.48.58		0.71°	E: 17.3°N 62.6°W
		iS	05.49.08			Depth: About 10 km
						Magnitude: 5.2
	DOM	eP	05.49.21		2.26°	
		iS	05.49.48			
	SVI	e (P)	05.49.45		4.52°	
		e	05.53.52			
	GRE	iP	05.50.02		5.25°	
		e	05.55.02			
	TRN	eP	05.50.23		6.68°	Small
		iP	05.50.25			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 8	SKI	iP	06.11.(56)		0.12°	H: 06.11.54
	AWI	iP	06.12.05		0.80°	E: 17.2°N 62.7°W
		iS	06.12.14			Depth: About 10 km
						Magnitude: 5.1
	DOM	eP	06.12.(29)		2.27°	
		eS	06.12.57			
	GRE	eP	06.13.08		5.23°	
	TRN	eP	06.13.(31)		6.66°	Small
8	SKI	iP	06.15.37		0.4°	
	AWI	eP	06.15.45		0.9°	
		iS	06.15.55			
8	SKI	iP	06.53.(48)		(0.4°)	
		iS	06.53.(52)			
	AWI	iP	06.53.56		1.0°	
		iS	06.54.06			
8	SKI	iP	07.38.22		0.13°	H: 07.38.20
	AWI	iP	07.38.29		0.71°	E:17.3°N 62.6°W
						Depth: About 10 km
	DOM	eP	07.38.52		2.28°	Magnitude: 5.1
		eS	07.39.26			
	GRE	eP	07.39.33		5.28°	
	TRN	eP	07.39.55		6.71°	
8	AWI	eP	10.08.06			
8	SKI	iP	11.45.11		0.4°	
	AWI	iP	11.45.18		0.9°	
		iS	11.45.27			
8	SKI	iP	22.39.14			
8	SKI	iP	22.53.10			
9	SKI	iP	01.59.55			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 9	TRN	eP	04.26.(23)		34.4°	USCGS Gives H: 04.19.42 E: 22.9°S 67.9°W Depth: About 84 km
	GRE	eP	04.26.33		35.8°	
		iP	04.26.37			
	SVI	eP	04.26.42		36.8°	
	DOM	eP	04.26.56		39.0°	
9	HOP	iP	06.03.24	d	0.3°	
		iS	06.03.27			
	BRJ	e	06.03.52			Small
9	BRJ	iP	18.33.29			
		e	18.35.31			
10	TRN	eP	02.13.13		27.5°	USCGS Gives H: 02.07.35 E: 14.3°S 71.9°W Depth: About 68 km
	GRE	eP	02.13.21		28.2°	
	SVI	eP	02.13.32		29.7°	
	DOM	eP	02.13.47		31.5°	
	SKI	eP	02.14.02		33.0°	
10	SKI	iP	06.50.39			
11	SKI	iP	01.33.34		0.4°	
		iS	01.33.38			
	AWI	eP	01.33.(49)		(1.4°)	
		iS	01.34.(04)			
11	SKI	iP	02.53.25		0.4°	
		iS	02.53.29			
11	SKI	iP	03.17.02		1.2°	
		iS	03.17.15			
11	DOM	eP	04.19.56		1.26°	H: 04.19.38 E: 15.3°N 62.5°W Depth: About 75 km Magnitude: 3.5
	AWI	iP	04.20.07	d	2.03°	
		iS	04.20.27			
	SKI	eP	04.20.08		2.14°	Small
		e	04.20.36			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961 NOV 11	HOP	e	12.30.01			Small
	SKI	iP	12.30.19			
	AWI	iP	12.30.(33)			
11	SKI	iP	20.58.32		0.6°	
		iS	20.58.38			
11	GRE	eP	21.52.06		23.2°	USCGS Gives H: 21.47.00 E: 8.2°S 75.0°W Depth: About 119 km
12	SKI	iP	05.04.01			
12	SKI	iP	14.24.01		1.2°	
		iS	14.24.13			
13	SKI	iP	04.50.43		0.4°	
		iS	04.50.47			
	AWI	eP	04.50.51		0. 9°	
		iS	04.51.01			
13	AWI	eP	05.54.16		0.9°	
		iS	05.54.25			
	SKI	iP	05.54.25		1.4°	
		iS	05.54.40			
13	TRN	eP	08.14.39			
		e	08.16.22			
	HOP	e.	08.15.02			
		e	08.17.02			
13	HOP	eP	11.28.29			
13	SKI	iP	16.06.56		1.4°	
		iS	16.07.11			
	AWI	iP	16.06.59		1.6°	
13	SKI	iP	16.54.54		0.3°	
		iS	16.54.58			
	AWI	iP	16.55.01	d	1.0°	
		iS	16.55.11			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 14	BRJ	iP	04.45.05		11.3°	USCGS Gives H: 04.42.27
	HOP	eP	04.45.20		11.8°	E:7.3°N 82.4°W
		iP	04.45.28			Depth: About 29 km
		iS	04.47.36			
	TRN	eP	04.47.09		21.1°	
		iP	04.47.12			
	GRE	eP	04.47.10		21.2°	
	SKI	eP	04.47.16		21.7°	
	SVI	eP	04.47.18		21.8°	
	AWI	eP	04.47.24		22.3°	
	BRB	eP	04.47.38		23.2°	
14	BRJ	eP	04.54.(17)			
	HOP	e	04.54.47			
14	TRN	eP	07.14.13		Very small	
14	AWI	iP	11.09.00		1.2°	
		iS	11.09.12			
	SKI	iP	11.09.10		1.5°	
		iS	11.09.25			
14	SVI	eP	21.43.54		2.2°	
		iS	21.44.17			
	AWI	eP	21.43.(59)		(2.6°)	
	SKI	eP	21.44.12		3.5°	
15	AWI	eP	00.33.00		0.6°	
		iS	00.33.06			
	SKI	i	00.33.28			
15	SKI	eP	07.35.43		2.8°	
		iS	07.36.12			
	AWI	e	07.35.52		Small	
	TRN	eP	07.36.03		4.2°	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 15	TRN	iP	14.39.27		0.55°	H: 14.39.19
	GRE	eP	14.39.47		1.98°	E: 10.1°N 61.3°W
		iP	14.39.50			Magnitude: 5.2
		iS	14.40.08			
	SVI	eP	14.40.01		3.04°	
15	TRN	iP	16.27.12		0.6°	
		iS	16.27.18			
15	HOP	iP	17.03.24		2.2°	
		iS	17.03.47			
	BRJ	iP	17.03.25		2.4°	
		iS	17.03.50			
16	SKI	iP	08.21.22	c	6.01°	H: 08.19.53
		iS	08.22.31			E: 18.1°N 69.0°W
	AWI	iP	08.21.32		6.87°	Magnitude: 6.0
		iS	08.22.48			
	HOP	eP	08.21.41		7.42°	
	BRJ	iP	08.21.(56)		8.49°	
	SVI	eP	08.22.00		8.92°	
	BRB	eP	08.22.22		10.31°	
	TRN	eP	08.22.24		10.45°	
		iP	08.22.26			
		iS	08.24.17			
17	SKI	iP	10.43.17		0.5°	
		iS	10.43.22			
17	SKI	iP	12.19.19		0.4°	
		iS	12.19.22			
18	SKI	iP	07.08.33		1.0°	
		iS	07.08.44			
	AWI	iP	07.08.37	d	1.2°	
		iS	07.08.49			
18	SKI	iP	08.12.42		0.3°	
	AWI	iP	08.12.50	d	0.9°	
		iS	08.12.59			

1961			TIME G.M.T.	MOTION	DISTANCE	
NOV 18	TRN	eP	10.39.12		23.3°	USCGS Gives H: 10.34.06
	GRE	eP	10.39.20		24.4°	E: 8.8°S 74.7°W
	SVI	eP	10.39.30		25.7°	Depth: About 50 km
	BRB	eP	10.39.(42)		26.4°	
	BRJ	eP	10.39.45		27.1°	
		e	10.40.30			
	SKI	eP	10.39.58		28.5°	
	HOP	e	10.40.06		27.0°	
18	TRN	eP	18.27.56			
		i	18.27.59			
		e	18.28.22			
	GRE	e	18.28.04			
18	GRE	eP'	22.29.22		144.5°	Felt: Near coast of Formosa
	TRN	eP'	22.29.29		145.7°	USCGS Gives H: 22.09.53
						E: 23.7°N 121.8°E
						Depth: About 60 km
19	TRN	eP	01.46.39		1.72°	H: 01.46.13
	GRE	eP	01.46.50		2.64°	E: 9.7°N 62.5°W
		iS	01.47.16			Depth: About 100 km
						Magnitude: 3.5
	SVI	eP	01.47.06		3.80°	
19	SKI	eP	06.26.46			
19	AWI	eP	22.41.39			
19	BRJ	eP'	23.41.32		151.2°	USCGS Gives H: 23.21.56
		e	23.41.42			E: 0.8°N 124.3°E
	HOP	eP'	23.41.36		152.0°	Depth: About 157 km.
	TRN	e	23.41.46		167.5°	Small
		e	23.42.50			
	SKI	e	23.42.20		160.9°	
20	HOP	eP	00.01.12			
		e	00.03.04			
		e	00.03.16			
	BRJ	iP	00.01.16			
		e	00.03.24			
	TRN	eP	00.01.20			Small

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 20	AWI	iP	04.04.59			
20	TRN	iP	05.01.04		1.0°	
		iS	05.01.14			
20	SKI	eP	18.03.32		24.2°	USCGS Gives H: 17.58.18
	AWI	e	18.03.36		24.0°	E: 31.3°N 40.9°W
	SVI	eP	18.03.57		26.2°	Depth: About 44 km
	TRN	eP	18.04.07		28.0°	
	BRJ	eP	18.05.26		35.7°	
21	TRN	eP	06.39.14		2.05°	H: 06.38.45
		iP	06.39.16			E: 09.9°N 63.3°W
	GRE	eP	06.39.22		2.66°	Magnitude: 6.2
		iP	06.39.23			
		iS	06.39.49			
	SVI	eP	06.39.39		3.85°	
	AWI	eP	06.40.29		7.37°	
		iP	06.40.39			
	SKI	eP	06.40.30		7.45°	
21	TRN	eP	06.47.06			
21	TRN	eP	08.04.15		2.87°	H: 08.03.35
		iP	08.04.17			E:09.5°N 64.1°W
	GRE	eP	08.04.24		3.42°	Magnitude: 6.4
		iP	08.04.29			
		iS	08.04.57			
	SVI	iP	08.04.40		4.57°	
		iS	08.05.28			
	AWI	eP	08.05.(30)		7.91°	
	SKI	iP	08.05.(32)		7.91°	
21	TRN	iP	08.07.46		1.5°	
		iS	08.08.02			
21	TRN	eP	11.59.31		1.7°	
		iP	11.59.34			
		iS	11.59.48			
	GRE	e	11.59.54			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
NOV 21	AWI	iP	20.11.18		0.49°	H: 20.11.11
	SKI	iP	20.11.29		1.28°	E: 17.4°N 61.4°W Magnitude: 6.1
	SVI	iP	20.12.11		4.20°	
	GRE	eP	20.12.26		5.33°	
	BRB	e	20.12.27		4.57°	
	TRN	eP	20.12.(48)		6.71°	
		eS	20.13.(58)			
21	HOP	iP	20.31.13		0.3°	
		iS	20.31.16			
	BRJ	eP	20.31.32		1.5°	
		eS	20.31.47			
21	AWI	iP	21.27.16			
22	AWI	iP	01.11.20	d	0.5°	
		iS	01.11.25			
	SKI	eP	01.11.32		1.3°	
		iS	01.11.45			
22	TRN	eP	03.14.14		1.9°	
		iP	03.14.16			
		iS	03.14.33			
	GRE	eP	03.14.23		2.5°	
22	BRJ	eP	03.57.37			
22	TRN	eP	11.43.18		1.8°	
		iS	11.43.36			
22	AWI	iP	14.58.54		1.01°	H: 14.58.39
	DOM	eP	14.59.03		1.68°	E: 16.8°N 61.1°W Depth: About 75 km
		iS	14.59.20			Magnitude: 3.8
	SKI	iP	14.59.04		1.74°	
		iS	14.59.22			
23	TRN	iP	02.17.26		2.5°	
		iS	02.16.51			
23	AWI	eP	09.43.44			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
NOV 23	HOP	eP	10.38.41		10.2°	USCGS Gives H: 10.36.11
	GRE	eP	10.40.48		22.6°	E: 11.1°N 84.7°W
	TRN	eP	10.40.55		23.0°	Depth: About 168 km
23	SKI	iP	13.29.40		0.4°	
		iS	13.29.44			
24	SKI	eP	07.46.57		0.9°	
		iS	07.47.06			
24	BRJ	eP	13.28.(52)			
24	BRJ	eP	19.44.18			
25	GRE	iP	01.54.52	c	1.6°	
		iS	01.55.08			
	TRN	iP	01.54.58	d	1.9°	
		iS	01.55.17			
25	AWI	iP	09.57.(41)		(0.8°)	
	SKI	iP	09.57.48		1.3°	
		iS	09.58.01			
	DOM	eP	09.58.11		3.0°	
		eS	09.58.42			
25	SKI	iP	11.59.50		1.5°	
		iS	12.00.05			
25	BRJ	e	14.30.15		127.7°	USCGS Gives H: 14.11.23
	SVI	ee	14.30.15		143.9°	E: 6.3°S 154.8°E
	AWI	eP'	14.30.43		142.0°	Depth: About 83 km
	TRN	eP'	14.30.47		144.0°	
	SKI	eP'	14.30.(48)		142.8°	
26	AWI	eP	06.27.57			
	SKI	e	06.28.01			
26	HOP	e(P)	08.20.34		2.2°	
		eS	08.20.57			

1961			TIME G.M.T.	MOTION	DISTANCE
NOV 26	AWI	eP	16.33.49		
	SKI	e	16.33.57		
27	TRN	eP	00.40.01		1.8° Small
		eS	00.40.20		
	GRE	e	00.40.(02)		
27	HOP	eP	01.10.27		
		e	01.12.26		
	TRN	eP	01.10.30		
		i	01.10.38		
		e	01.12.59		
	BRJ	eP	01.10.31		
		e	01.12.29		
	GRE	eP	01.10.(35)		
	AWI	eP	01.11.07		
27	BRJ	eP	07.00.(50)		
	HOP	e	07.01.24		Small
27	SKI	iP	13.47.49		0.9°
		iS	13.47.58		
	AWI	iP	13.47.55		1.2°
27	TRN	eP	20.12.50		2.5°
		iP	20.12.53		
	GRE	eP	20.12.55		2.8°
		eS	20.13.24		
27	SKI	iP	20.40.16		1.2°
		iS	20.40.28		
27	BRJ	iP	22.24.37		1.2°
		iS	22.24.50		
28	AWI	eP	00.31.36		
28	SKI	eP	03.13.09		
	AWI	eP	03.13.20		

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
NOV28	DOM	iP	04.09.39	c	1.33°	H: 04.09.20
		iS	04.09.56			E: 14.8°N 61.7°W
	SVI	iP	04.09.50	c	2.07°	Depth: About 130 km
		iS	04.10.14			Magnitude: 4.6
	AWI	iP	04.09.56	c	2.62°	
	SKI	iP	04.10.02	c	2.98°	
	GRE	iP	04.10.03	c	3.01°	
		eS	04.10.41			
	TRN	iP	04.10.21		4.33°	
		iS	04.11.09			
28	TRN	iP	09.54.13		2.14	H: 09.53.42
	GRE	iP	09.54.13		2.19°	E: 10.8°N 63.6°W
		i(S)	09.54.31			Magnitude: 5.1
	SVI	eP	09.54.29		3.27°	
		eS	09.55.02			
29	TRN	eP	05.32.51			Very small
29	GRE	eP	20.43.17		22.6°	USCGS Gives H: 20.38.07
						E: 6.9°S 75.9°W
						Depth: About 25 km
29	TRN	eP	22.14.54			
30	TRN	iP	04.47.36	c	1.04°	H: 04.47.21
		iS	04.47.47			E: 11.2°N 62.0°W
	GRE	iP	04.47.37		1.14°	Depth: About 75 km
		iS	04.47.48			Magnitude: 4.1
	SVI	eP	04.47.52		2.25°	

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UNIVERSITY COLLEGE OF THE WEST INDIES

SEISMIC RESEARCH UNIT

Regional Research Centre,

Trinidad, West Indies.

- DEC 1981

Preliminary Seismological Bulletin.

STATIONS REPORTING

TRINIDAD	(TRN)*	LAT.	10°	39.0'N	LONG.	61°	24.1'W	27m.
GRENADA	(GRE)	LAT.	12°	02.7'N	LONG.	61°	44.1'W	30m.
ST. VINCENT	(SVI)	LAT.	13°	10.2'N	LONG.	61°	15.5'W	10m.
BARBADOS	(BRB)	LAT.	13°	07.4'N	LONG.	59°	35.6'W	70m.
DOMINICA	(DOM)	LAT.	15°	17.7'N	LONG.	61°	23.5'W	40m.
ANTIGUA	(AWI)	LAT.	17°	08.6'N	LONG.	61°	50.1'W	27m.
ST. KITTS	(SKI)	LAT.	17°	20.3'N	LONG.	62°	43.7'W	
HOPE, JAMAICA	(HOP)	LAT.	18°	01' N	LONG.	76°	45' W	200m.
BEVERLEY, JAMAICA	(BEV)	LAT.	18°	27' N	LONG.	77°	18' W	123m.
BLACK RIVER, JAMAICA	(BRJ)	LAT.	18°	02' N	LONG.	77°	52' W	8m.

EQUIPMENT

Trinidad is equipped with three components of Willmore Watts 1 second period seismometers and $\frac{1}{4}$ second period galvanometers recording at 60mm/min.

All other stations have similar equipment recording vertical component only.

Magnification is 10,000 at 3 cycles/sec. except at Barbados where it is 3,000 at 3 cycles/sec.

* The Trinidad station has been operated in the past at the temporary sites given below:-

From 1st May 1953 to 1st January 1955 at 10° 40.1' North 61° 31.2' West

From 1st January 1955 to 1st September 1958 at 10° 44.7' North 61° 33.2' West.

Intensity Scale in use: Modified Mercalli Intensity Scale.

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
DEC 1	HOP	e(P)	02.47.48		1.4°	
		iS	02.48.03			
	BRJ	eP	02.47.50		1.5°	
1	GRE	iP	03.00.(29)		(1.1°)	
		eS	03.00.(40)			
	TRN	eP	03.00.37		(1.5°)	
		iS	03.00.53			
1	TRN	iP	11.42.40	d	1.3°	
		iS	11.42.54			
1	TRN	e	20.08.(48)			
1	AWI	eP'	21.31.55		137.8°	USCGS Gives H: 21.13.04
	TRN	eP'	21.32.(12)		142.0°	E: 26.5°N 124.9°E Depth: About 206 km
1	TRN	iP	22.42.(17)	c	(1.1°)	
		iS	22.42.(28)			
	GRE	e(P)	22.42.(22)		(1.6°)	
		eS	22.42.(38)			
2	AWI	iP	05.11.19			
	SKI	i	05.11.43			
2	DOM	eP	06.55.41		1.39°	H: 06.55.21
		eS	06.55.55			E: 15.1°N 60.2°W
	SVI	eP	06.55.54		2.29°	Depth: About 75 km
		eS	06.56.17			Magnitude: 3.7
	AWI	e	06.56.03		2.66°	Very Small
	GRE	eP	06.56.10		3.47°	Very Small
2	AWI	iP	08.41.32		1.6°	
	SKI	iP	08.41.41		2.3°	
		iS	08.42.05			
2	AWI	eP	08.58.10			
	SKI	e	08.58.20			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
DEC 2	BRJ	iP	16.50.43			
	TRN	iP	16.51.48			
	GRE	eP	16.51.50			
2	AWI	eP	21.55.24			
	DOM	eP	21.55.24			
3	TRN	iP	08.57.30		1.3°	Small
		iS	08.57.43			
3	TRN	eP	08.59.49			Small
4	TRN	eP	05.52.56			
4	SKI	eP	06.43.02			
4	SKI	iP	07.37.54		6.18°	H: 07.36.22
		iS	07.39.09			E: 18.2°N 69.1°W
	HOP	iP	07.38.09	d	7.31°	Magnitude: 6.6
		iS	07.39.29			
	DOM	eP	07.38.19		7.99°	
		iS	07.39.50			
	BRJ	iP	07.38.25		8.37°	
		iS	07.40.01			
	SVI	eP	07.38.34		9.12°	
	GRE	eP	07.38.39		9.45°	
		eS	07.40.25			
	BRB	eP	07.38.54		10.52°	
	TRN	eP	07.38.56		10.65°	
		iP	07.38.58			
		iS	07.40.53			
4	TRN	eP	16.16.41		19.5°	Small USCGS Gives H: 16.12.09 E: 0.6°N 78.3°W Depth: About 25 km
4	HOP	eP	21.43.43			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE
1961					
DEC 5	TRN	eP'	13.21.18		131.7°
	AWI	eP'	13.21.27		132.1°
5	TRN	eP	13.24.32		
	AWI	eP	13.24.34		
	DOM	e	13.24.34		
5	TRN	iP	13.59.39		1.3°
		iS	13.59.52		
	GRE	iP	13.59.41		1.5°
		iS	13.59.56		
6	AWI	e(P)	04.17.33		
6	TRN	iP	04.45.09		0.7°
	GRE	eP	04.45.23		1.7°
		iS	04.45.40		
6	GRE	eP	06.08.12		
	TRN	iP	06.08.17		
	HOP	eP	06.08.22		
	BRJ	eP	06.08.23		
6	BRJ	eP	11.17.21		
7	TRN	iP	11.08.30		0.6°
		iS	11.08.36		
7	DOM	eP	12.26.38		1.3°
		iS	12.26.51		
	SVI	iP	12.26.46		1.9°
		iS	12.27.06		
7	SKI	iP	22.58.20		0.4°
		iS	22.58.24		
	AWI	eP	22.58.28		0.9°

Felt: Santo, New Hebrides Islands.
USCGS Gives H: 13.02.32
E: 16.0°S 168.1°E
Depth: About 145 km

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
DEC 8	SKI	iP	02.14.02		0.5°	
		iS	02.14.07			
	AWI	eP	02.14.12		1.1°	
8	SKI	iP	06.11.15			
	AWI	e	06.11.24			
8	SKI	eP	06.50.27		0.8°	
		iS	06.50.35			
	AWI	eP	06.50.35		1.1°	
		iS	06.50.46			
8	TRN	eP	07.03.02		1.6°	
		eS	07.03.18			
8	BRJ	eP	09.38.39			
8	AWI	eP	09.51.20		1.0°	
		iS	09.51.30			
	SKI	eP	09.51.(27)		(1.5°)	
		iS	09.51.(43)			
8	AWI	eP'	09.56.16		154.5°	USCGS Gives H: 09.36.25 E: 1.8°S 139.4°E Depth: About 55 km
8	SKI	iP	11.54.(05)	c	(0.5°)	
		iS	11.54.(10)			
	AWI	eP	11.54.14		1.2°	
8	SKI	iP	15.59.(25)	c	(0.1°)	
	AWI	iP	15.59.33		0.7°	
d		iS	15.59.40			
8	HOP	eP	19.04.57		1.4°	
		eS	19.05.11			
8	TRN	e	23.13.34			Very small

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
DEC 9	SKI	eP	02.27.(15)		76.3°	USCGS Gives H: 02.15.22
	AWI	eP	02.27.20		77.0°	E: 56.3°N 153.9°W
	DOM	eP	02.27.34		78.6°	Depth: About 31 km
	TRN	eP	02.27.42		82.3°	
9	GRE	eP	04.05.03		30.4°	USCGS Gives H: 03.58.55
	TRN	eP	04.05.04		29.3°	E: 14.9°S 75.7°W
		e	04.12.47			Depth: About 39 km
	SVI	eP	04.05.15		31.7°	
		iP	04.05.21			
	BRB	eP	04.05.28		32.1°	
	BRJ	eP	04.05.28		34.0°	
	DOM	eP	04.05.33		33.4°	
	AWI	eP	04.05.41		34.5°	
	SKI	eP	04.05.(54)		34.7°	
	HOP	e	04.06.19			
9	TRN	iP	07.06.28		1.2°	
		iS	07.06.40			
	GRE	eP	07.06.28		1.3°	
9	SKI	iP	09.31.(54)	c	(0.4°)	
		iS	09.31.(58)			
	AWI	eP	09.32.02		1.0°	
		iS	09.32.12			
9	TRN	eP	11.27.46		55.8°	USCGS Gives H: 11.18.09
	GRE	eP	11.27.52		57.0°	E: 43.7°S 75.2°W
		iP	11.27.55			Depth: About 34 km
	SVI	eP	11.28.00		58.3°	
		i	11.28.16			
	DOM	eP	11.28.19		60.3°	
	HOP	eP	11.28.24		61.0°	
	BRJ	eP	11.28.25		62.5°	
	AWI	eP	11.28.30		61.8°	
	SKI	eP	11.28.(30)		62.1°	
9	TRN	eP'	20.07.29		120.0°	USCGS Gives H: 19.49.41
						E: 21.7°S 179.9°E
						Depth: About 620 km

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
DEC 10	GRE	eP	01.59.05			
10	SVI	eP	03.22.51		2.49°	H: 03.22.16
	SKI	eP	03.23.03		3.33°	E: 15.3°N 60.0°W
		eS	03.23.37			Magnitude: 5.1
	GRE	eP	03.23.08		3.69°	Small
10	SKI	eP	03.40.(01)		(1.9°)	
		eS	03.40.(21)			
10	GRE	eP	11.41.24			
10	GRE	eP	16.46.52			
10	SKI	iP	19.20.(18)	c	(0.5°)	
		iS	19.20.(23)			
10	GRE	eP	19.50.46		1.5°	
		iS	19.51.01			
	TRN	iP	19.50.(49)		(1.6°)	
		iS	19.51.(05)			
10	SKI	iP	21.16.(23)	c	(0.3°)	
		iS	21.16.(26)			
10	BRB	eP	21.36.21		1.20°	H: 21.36.01
	SVI	iP	21.36.(33)		2.36°	E: 12.1°N 59.2°W
		iS	21.37.(01)			Depth: About 50 km
						Magnitude: 5.1
	GRE	iP	21.36.37		2.55°	
		iS	21,37.04			
	TRN	iP	21.36.(41)		2.65°	
		iS	21.37.(09)			
	DOM	eP	21.36.56		3.89°	
		iS	21.37.35			
10	SKI	eP	22.45.(02)		(0.3°)	
		iS	22.45.(05)			
10	TRN	iP	23.36.(57)		(0.6°)	
		iS	23.37.(03)			
	GRE	eP	23.37.13		1.8°	

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
DEC 11	TRN	iP	05.50.(02)		(0.8°)	
		iS	05.50.(11)			
11	HOP	e	12.55.30			
11	GRE	eP	14.04.15			
11	SKI	eP	16.33.(40)		(3.3°)	
		iS	16.34.(14)			
11	SKI	eP	16.36.(58)			
11	GRE	eP	18.18.47			
11	SKI	iP	18.27.(32)		(0.3°)	
		iS	18.27.(36)			
11	AWI	iP	23.56.30			
	SKI	iP.	23.56.31	c		
12	GRE	eP	03.41.34			
	TRN	eP	03.41.53			
		i	03.43.53			
12	BRB	iP	11.18.49		1.79°	H: 11.18.20
		iS	11.19.11			E: 11.6°N 59.8°W
	TRN	iP	11.18.49		2.06°	Depth: About 100 km
						Magnitude: 5.9
	GRE	iP	11.18.51	c	2.15°	
		iS	11.19.16			
	SVI	iP	11.18.52	c	2.29°	
		iS	11.19.18			
	DOM	eP	11.19.19		4.09°	
		iS	11.20.05			
	AWI	eP	11.19.44		5.92°	
	HOP	eP	11.22.25		17.61°	
	BRJ	eP	11.22.32		18.58°	

DATE, 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
DEC 12	TRN	iP	14.55.33		0.9°	
		iS	14.55.43			
	GRE	iP	14.55.38		1.2°	
		iS	14.55.51			
13	GRE	e	03.27.44			
13	SKI	iP	18.02.52			
13	SKI	iP	19.51.26	c	0.3°	
		iS	19.51.29			
	AWI	iP	19.51.34		0.8°	
		iS	19.51.42			
13	SKI	iP	23.18.45	c	0.3°	
		iS	23.18.48			
	AWI	eP	23.18.53		1.0°	
14	SKI	eP	00.49.21			
	AWI	e	00.49.30			
14	SKI	iP	01.37.29	c	0.4°	
		iS	01.37.33			
	AWI	iP	01.37.39		1.0°	
		iS	01.37.48			
14	SKI	iP	03.56.54	c	0.5°	
		iS	03.56.59			
	AWI	eP	03.57.03		0.9°	
		iS	03.57.11			
14	SKI	iP	05.14.46	c	0.5°	
		iS	05.14.51			
	AWI	iP	05.14.54		1.1°	
14	TRN	eP'	07.30.20		156.5°	Small
	SKI	eP'2	07.30.21		152.9°	USCGS Gives H: 07.10.23
	AWI	eP'2	07.30.23		153.8°	E: 3.1°S 140.9°E
						Depth: About 44 km

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE
DEC 14	SKI	eP	08.21.21		0.4°
		iS	08.21.26		
14	TRN	eP	11.07.54		1.1°
		iS	11.08.05		
	GRE	eP	11.08.03		1.8°
14	SKI	iP	14.28.34	c	0.4°
		iS	14.28.38		
	AWI	eP	14.28.43		1.0°
14	SKI	iP	14.32.53		
	AWI	eP	14.33.08		
14	SKI	iP	18.14.12		0.4°
		iS	18.14.16		
	AWI	iP	18.14.21		1.1°
14	SKI	iP	18.36.16	c	0.5°
		iS	18.36.21		
	AWI	eP	18.36.26		1.2°
14	SKI	iP	18.36.37		0.4°
		iS	18.36.41		
14	SKI	iP	19.32.08		
	AWI	iP	19.32.17		
14	SVI	e	19.33.10		
	GRE	iP	19.33.20		
	TRN	eP	19.33.42		
14	SVI	eP	19.37.05		
14	SKI	iP	20.00.26	c	0.5°
		iS	20.00.31		

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
DEC 14	SKI	iP	20.03.44	c	0.6°	
		iS	20.03.51			
	AWI	iP	20.03.54		1.3°	
	15 SKI	iP	09.15.08		0.3°	
		iS	09.15.11			
	15 SKI	iP	10.15.23	c	0.3°	
		iS	10.15.26			
	15 SKI	iP	10.41.13			
	15 SVI	iP	17.32.27		3.05°	H: 17.31.44
	GRE	eP	17.32.35		3.56°	E: 15.0°N 63.7°W
		iS	17.32.58			Depth: About 75 km
	TRN	eP	17.32.54		4.93°	Magnitude: 4.0 Small
	16 AWI	iP	03.03.34		0.7°	
		iS	03.03.41			
	SKI	iP	03.03.43		1.7°	
		iS	03.04.00			
	16 TRN	iP	07.53.09		0.7°	
		iS	07.53.16			
	GRE	eP	07.53.27		2.0°	
	16 TRN	iP	10.36.08		0.5°	
		iS	10.36.13			
	16 GRE	eP	15.04.02			
	16 GRE	eP	16.33.26			
	17 TRN	iP	14.07.40		0.6°	
		iS	14.07.47			
	17 GRE	eP	21.38.01		30.0°	USCGS Gives H: 21.32.02
	TRN	e	21.38.12			E: 14.4°S 75.8°W
						Depth: About 85 km

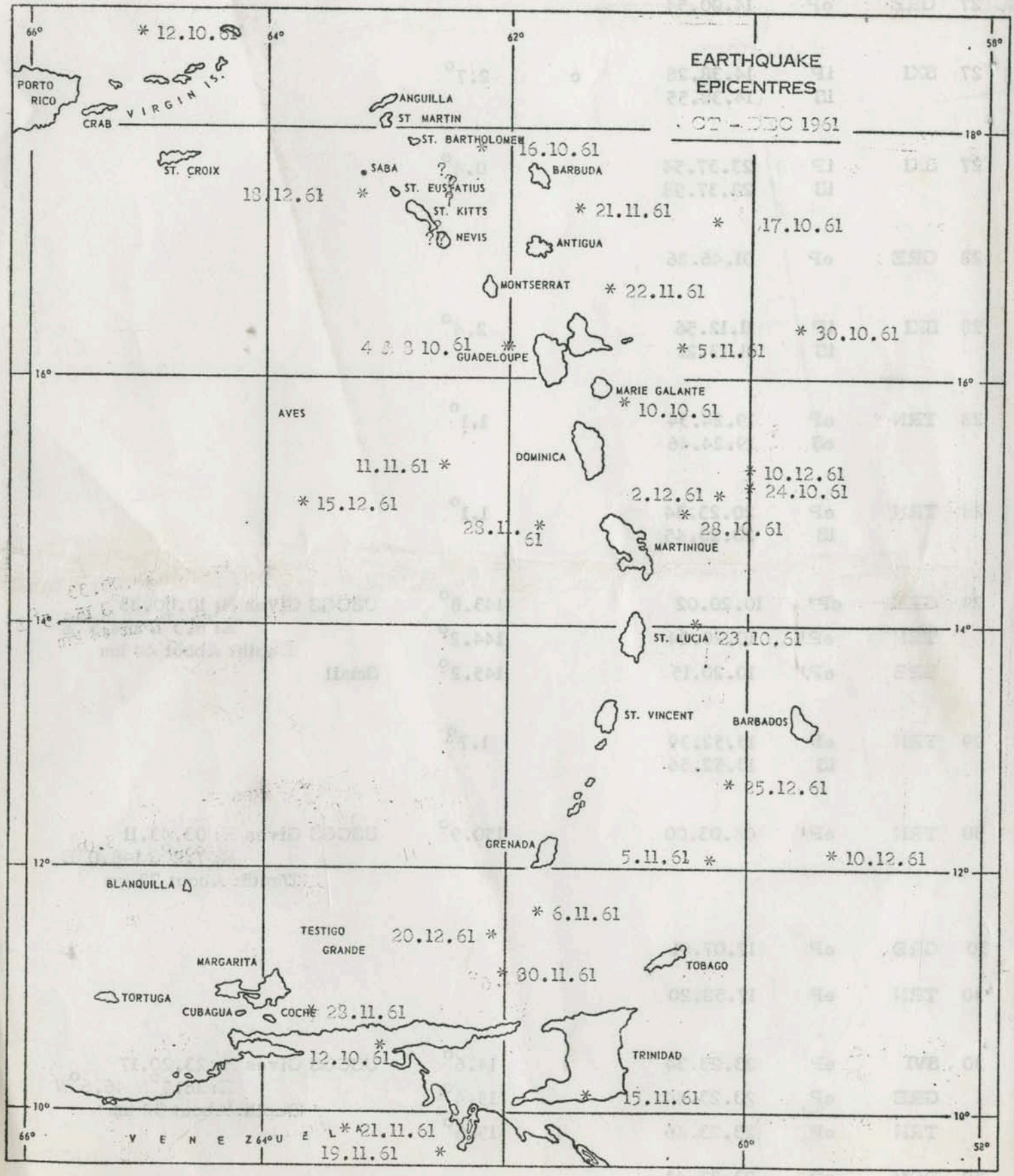
DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
DEC 18	HOP	iP	02.18.31	c	0.3°	
		iS	02.18.34			
18	SKI	iP	14.34.(31)		(0.49°)	H: About 14.34.24
	DOM	eP	14.35.05		(2.82°)	E: About 17.5°N 63.2°W
	SVI	e	14.35.(36)		(4.74°)	Depth: About 10 km
		e	14.39.29			Magnitude: 5.6
	GRE	eP	14.35.42		(5.65°)	
	TRN	eP	14.36.05		(7.09°)	
18	SKI	iP	14.43.28			
18	SKI	iP	14.45.27			
18	SKI	iP	15.16.45		0.3°	
		iS	15.16.48			
18	SKI	iP	15.44.(31)			
18	SKI	iP	15.56.01			
18	SKI	iP	16.55.34	c	0.1°	
		iS	16.55.36			
18	SKI	iP	17.04.41		0.4°	
		iS	17.04.45			
18	SKI	iP	17.09.47			
18	SKI	iP	17.30.16		0.1°	
		iS	17.30.18			
18	TRN	e(P)	18.05.09			
		i	18.05.27			
18	TRN	eP	20.36.22			Small
19	HOP	iP	02.18.37		0.3°	
		iS	02.18.40			

DATE 1961	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
DEC 19	DOM	iP	09.58.(26)		0.8°	
		iS	09.58.(35)			
	SKI	eP	09.58.51		2.7°	
		iS	09.59.19			
19	TRN	eP	19.16.07			
19	TRN	eP	22.12.20			
19	GRE	e	23.57.44			
20	GRE	iP	00.26.53	d	1.30°	H: 00.26.35 E: 11.5°N 62.1°W Depth: About 125 km Magnitude: 4.4
		iS	00.27.06			
	TRN	iP	00.26.57	d	1.60°	
		iS	00.27.11			
	SVI	eP	00.27.05		2.16°	
		eS	00.27.27			
20	TRN	iP	06.06.50		1.3°	
		iS	06.07.03			
	GRE	iP	06.06.53	d	1.7°	
		iS	06.07.10			
20	GRE	eP	10.11.14			
20	HOP	eP	13.28.40		13.6°	West Central Columbia. 23 killed 100 injured, and moderate property damage in Caldas Province. USCGS Gives H: 13.25.34 E: 4.6°N 75.6°W Depth: About 176 km
		iP	13.28.44			
		iS	13.31.02			
	GRE	iP	13.29.59	d	15.3°	
		i	13.32.(01)			
	TRN	iP	13.29.01	d	15.2°	
	SVI	eP	13.29.15		16.5°	
		iP	13.29.18			
		iS	13.32.(05)			
	DOM	eP	13.29.(30)		17.8°	
		iP	13.29.(34)			
		iS	13.32.(53)			
	SKI	iP	13.29.31		17.5°	
	BRB	iP	13.29.33		17.8°	

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
DEC 20	SVI	eP	17.34.04			
	DOM	eP	17.34.12			
	GRE	eP	17.34.15			
20	SKI	iP	21.04.37	c	0.3°	
		iS	21.04.41			
20	SKI	iP	21.13.50	c	0.5°	
		iS	21.13.55			
21	TRN	eP	00.40.38			
21	GRE	eP	18.42.36			
22	SKI	iP	22.07.43			
23	TRN	eP	09.04.58			
	HOP	eP	09.06.41			
23	HOP	eP	14.39.09		11.9°	USCGS Gives H: 14.36.27 E: 6.4°N 73.4°W Depth: About 197 km
		iP	14.39.12			
		iS	14.41.09			
	GRE	eP	14.39.20		12.3°	
	TRN	iP	14.39.20		12.4°	
23	HOP	iP	23.23.50	d	1.1°	
		iS	23.24.01			
24	SKI	iP	10.43.33		1.0°	
		iS	10.43.43			
24	TRN	eP	14.30.56		25.3°	USCGS Gives H: 14.25.33 E: 5.7°S 80.9°W Depth: About 52 km
	GRE	eP	14.31.01		26.0°	
	SKI	eP	14.31.31		29.0°	
24	TRN	eP	17.21.13		26.3°	Small USCGS Gives H: 17.15.42 E: 6.0°S 81.7°W Depth: About 25 km

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
DEC 24	TRN	iP	22.15.31		1.0°	
		iS	22.15.41			
	GRE	eP	22.15.37		1.2°	
		iS	22.15.50			
24	GRE	eP	23.52.22		51.5°	USCGS Gives H: 23.43.19 E: 38.3°S 74.6°W Depth: About 31 km
25	BRB	eP	08.32.15		0.63°	H; 08.32.04 E: 12.7°N 60.1°W Magnitude: 5.6
	SVI	iP	08.32.21		1.21°	
	GRE	iP	08.32.29	d	1.75°	
		iS	08.32.47			
	TRN	e	08.32.42		2.45°	
	DOM	eP	08.32.(47)		2.85°	
		eS	08.33.21			
	SKI	e	08.33.21		5.25°	
26	GRE	eP'	04.44.03		170.2°	USCGS gives H: 04.24.55 E: 5.5°S 110.7°E Depth: About 566 km
	TRN	eP'	04.44.06		170.8°	
26	SKI	iP	05.38.13		1.1°	
		iS	05.38.24			
26	SKI	eP	13.47.11			
26	TRN	eP	16.48.57		1.6°	
		iS	16.49.13			
	GRE	e	16.48.58			
26	SKI	eP	20.55.52			
	TRN	eP	20.57.01			
26	GRE	iP	21.17.06		2.2°	
		iS	21.17.28			
	TRN	eP	21.17.08		2.3°	
27	SKI	iP	12.58.31			

DATE	STATION	PHASE	TIME G.M.T.	MOTION	DISTANCE	
1961						
DEC 27	GRE	eP	14.00.54			
27	SKI	iP	14.38.28	c	2.7°	
		iS	14.38.55			
27	SKI	iP	23.37.54		0.4°	
		iS	23,37.58			
28	GRE	eP	01.46.26			
28	SKI	iP	11.12.56		2.4°	
		iS	11.13.21			
28	TRN	eP	19.24.34		1.1°	
		eS	19.24.46			
28	TRN	eP	20.23.34		1.1°	
		iS	20.23.45			
29	GRE	eP'	10.20.02		143.8°	USCGS Gives H: 10.00.33
	TRN	eP'	10.20.04		144.2°	E: 6.3°S 154.5°E
	BRE	eP'	10.20.15		145.2°	Depth: About 44 km Small
29	TRN	eP	13.52.39		1.7°	
		iS	13.52.56			
30	TRN	eP'	04.03.00		150.9°	USCGS Gives H: 03.43.11 E: 7.2°S 148.0°E Depth: About 78 km
30	GRE	eP	17.07.01			
30	TRN	eP	17.58.20			
30	SVI	eP	23.23.34		14.6°	USCGS Gives H: 23.20.17
	GRE	eP	23.23.44		15.4°	E: 16.5°N 46.6°W
	TRN	eP	23.23.46		15.6°	Depth: About 32 km
30	DOM	eP	23.37.43			
31	SKI	iP	14.42.49		1.6°	
		iS	14.43.06			



? Earthquakes of 2nd, 3rd, 7th and 8th November, 1961