International Seismological Centre

NOTICE TO ALL RECIPIENTS

In addition to Preliminary Announcement #6, Local SEISMIC EVENTS, there is attached the first in a series of reports covering TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK. This report covers the month of May 1963, and future reports will be issued monthly as soon as sufficient data has been received and evaluated.

WESTON OBSERVATORY

16 July 1963

International Seismological Centre

TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK - May 1963

Date	Origin Time GMT	Location	Phases Received			
			Milo	Berlin	Caribou	Weston
1	10 03 20	New Hebrides Isl.	iPKP			
5	15 17 01	Chile	iP iPcP	iP iPcP	iP iPcP	iP iPcP
7	05 16 21	Central Alaska	P			
8	08 50 56	Unimah Isl., Aleut.	iP pP	iP pP	iP pP	iP pP
10	22					
12	20 08 43	Kodiak Isl.	iP	iP	iP	iP
13	01 32 36	Columbia	iP dpP	iP dpP		
	14 07 46	New Hebrides Isl.	P'	P'	P'	
	12 44 00	Mexico-Guatemala Border	P PP PcP	P PP PcP	P PcP	P
17	04 06 36	Kurile Isl. Region	iP	iP	iP	iP
	12 21	Hokkaido, Japan	P'	P'		
	14 20	So. Peru	P'	P'		
	19 58					
	22 39					
	23 09	Tonga Islands ??				
18	05 33 25	LaRioja Prov., Argentina	iP	iP	iP	
	12 39	Bali	eP	eP	eP	eP
19	01 03 04	Coast of So. Chile	P	P	P	P
	16					
	21 35 49	No. Atlantic Ocean	iP T	iP T	iP	iP

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Origin Date	Time Z	Location	Phases Received Milo	Berlin	Reston	Carlton
20	11 38 00	Kermudec Islands	1P' PKP	1P' PKP	1P' P' PP S PS PPS or SPP	1P'
22	13 56 43	Kurile Islands region	P	P	P	P
22	16 01	Molucca Passage	PKP PP	PKP PP	PKP PP	PKP
22	22 12	Java Sea	PKP	PKP	PKP	
23	07 43 58	Leeward Islands region	eP eS eT	eP eS eT	eP eS T	
25	18 24					
25	16 26	Sandwich Isl. Region			eP	
26	12 53	So. Peru				
26	16 17		1S	1S		1S
26	23 17	Coast of Kamchatka				
27	04 09	Coast of Kamchatka				
29	22 57	Mexico/Guatemala Border ??				
31	04 49	So. Peru				

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LOCAL SEISMIC EVENTS

Week 1 - 7 June 1963

Preliminary Announcement #1

Date	Origin Time	Type Event	Epicenter	Sta. Reporting
1	20 46 41.7	Weak Local	42.6°N 73°W	W B M D
1	14 14 29.2	Weak Blast	45.7°N 73.3°W	B M
1	00 39 53.9	Local Event	-	M
3	20 06 51.3	Weak Blast	46.0°N 71.2°W (Thetford Mines)	B M
3	20 49 26.9	Weak Blast	-	B
3	16 03 25.2	Weak Blast	45.8°N 72.9°W (St. Jude, P.Q.)	B M
3	16 33 29.3	Weak Blast	45.8°N 71.9°W (Asbestos)	B M
3	19 22	Three Blasts	45.9°N 71.2°W (Lake St. Francis)	B M
3	20 01 57.3	Weak Blast	45.6°N 71.9°W (Megantic, P.Q.)	B M
4	13 00 10.0	Local Event	-	B
4	18 23 54.2	Weak Blast	46.3°N 71.4°W (Thetford Mines)	B M
4	19 45 18.9	Weak Blast	16.2°W71.5°W (Thetford Mines)	B M
4	20 05 44.4	Weak Blast	46.0°N 71.3°W (Black Lake, P.Q.)	B M
4	18 50 45.7	Local Event	45.9°N 73.2°W (St. Lawrence River)	B M
4	16 32 35.5	Weak Blast	45.8°N 71.9°W (Asbestos)	B M
5	16 23 37.0	Weak Blast	45.8°N 72.1°W	B M
5	16 16 15.5	Local Event	45.9°N 71.8°W	B M

Date	Origin Time	Type Event	Epicenter	Sta. Reportin
5	18 05 01	Local Event		B
5	17 56 55.5	Local Event		B
5	19 52 24.0	Local Event		B M
5	22 53 13.8	Weak Local	44.9°N 69.2°W (Newport, Me.)	B M W
5	22 11 52.3	Local Event		B
6	03 41 16.4	Local Event		B M
6	13 34 34.6	Local Event	45°N 69°W	B M
6	16 24 45.9	Weak Blast	45.7°N 72.0°W (Asbestos)	B M
6	21 11 15.5	Weak Blast	46.2°N 71.0°W (Thetford Mines)	B M
6	19 54 09.1	Weak Blast	46.1°N 71.3°W (Black Lake, P.Q)	B M
6	15 57 33.2	Weak Blast	45.0°N 71.3°W (Black Lake, P.Q.)	B M
7	14 41 07.7	Local Event	44.0°N 74.0°W	B M
7	16 27 01.2	Weak Blast	45.7°N 72.3°W	B M
7	16 14 50.6	Weak Blast	45.8°N 71.9°W	B M
7	19 53 39.6	Weak Blast	46.0°N 71.3°W (Black Lake, P.Q.)	B M
7	18 30 59.4	Weak Blast	46.0°N 71.3°W	B M
7	20 01 16.8	Weak Blast	45.8°N 71.7°W (Asbestos)	B M
7	20 07 53.8	Weak Blast	46.0°N 71.3°W (Black Lake, P.Q.)	B M
7	21	Local Event		B M
7	20 13 43.7	Weak Blast	45.7°N 70.9°W (Megantic, P.Q.)	B M

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The New England Seismic Network erected and maintained by Weston Observatory has four remote unmanned stations in New England, and one laboratory station at Weston. Each of these stations is equipped with three short period portable Benioff seismometers having periods of 1.0 second. The seismometer signals are amplified through a differential operational amplifier, giving a maximum systems response at 0.8 second. The seismic detection sites are located as follows:

W --Weston, Mass.	42°23'04.9"N	71°19'19.5"W
M - Milo, Maine	45°14'37"N	69°2'25"W
C - Caribou, Maine	46°55'57"N	68°7'15"W
E - Marshfield, Maine	44°44'20"N	67°29'22"W
B - Berlin, N.H.	44°35'26"N	71°15'23"W

Arrivals from (D) - Dartmouth College, Hanover, N.H. have been supplied through the courtesy of Prof. R. Decker of the Department of Geology.

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LOCAL SEISMIC EVENTS

Week 8 - 14 June 1963 — Preliminary Announcement #2

Date	Origin Time	Type Event	Epicenter	Sta. Reporting
8	13 49	Local Event		M
8	18 39	Blast	46.2°N 71.4°W Thetford Mines	B M
8	20 53 40.3	Local Event	47.7°N 71.5°W	B M
9	03 42 46	Blast	46.1°N 71.3°W Thetford Mines	B M
10	19 56 10.8	Blast	46.0°N 71.3°W Black Lake	B M
10	21 36 18.7	Blast	44.8°N 69.4°W Newport, Me.	B M
10	20 03 43.7	Blast	46.0°N 71.4°W Black Lake	B M
11	03 47 48	Blast	46.2°N 71.4°W Thetford Mines	B M
11	19 51 47	Blast	46.0°N 71.3°W Black Lake	B M
11	19 53 24	Blast	46.2°N 71.4°W Thetford Mines	B M
11	20 04 32	Blast	45.8°N 71.6°W Ham Nord, P.Q.	B M
11	16 16 42.2	Blast	45.8°N 71.9°W Asbestos	B M
12	19 51 24	Blast	46.0°N 71.2°W Black Lake	B M
12	21 21 03.1	Local Event	46.5°N 75.0°W Nominingue, P.Q.	B M
12	23 17 02	Weak Local	44.9°N 69.5°W Hartland, Me.	B M

Date	Origin Time	Type Event	Epicentar	Sta. Reporting	
12	16 14 13.6	Weak Blast	45.8°N 72.0°W	B	M
12	19 16 05.0	Weak Blast	46.0°N 76.2°W Black Lake	B	M
12	16 23	Local Event		B	M
12	18 47	Local Event		B	M
12	17 21	Local Event		B	M
12	18 11	Local Event		B	M
13	19 23 46.2	Local Event	44°N 70°W Rockland, Me.	B	M
13	19 56 34.4	Weak Blast	46.1°N 71.2°W Thetford Mines	B	M
13	21 42 57.7	Local Event	Moosehead Lake, Me. or Newport, Me.	B	M
13	21 51	Local Event		B	
13	16 14 22.2	Local Event	46.1°N 72.0°W Victoriaville, P.Q.	B	M
13	14 24 45	Weak Local	45.8°N 70.4°W Jackman, Me.	B	M
13	15 14 35.8	Local Event	47.5°N 75.5°W	B	M
14	11 42 38.3	Weak Blast	45.9°N 71.4°W Black Lake	B	M
14	12 20 24.3	Weak Local	42.8°N 73.7°W Pittsfield, Mass.	B	M W
14	19 53 12.1	Local Event	45.9°N 71.0°W St. Evariste Sta., P.Q.	B	M C
14	22 24 55.1	Local Event	Moosehead Lake, Me. or Newport, Me.	B	M
14	21 55 50.8	Weak Local	46.1°N 69.9°W	B	M

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Date	Origin Time	Type Event	Epicenter	Sta. Reportin		
14	21 49 34.7	Local Event	45.9°N 70.2°W Jackman, Me.	B	M	
14	16 15 47.3	Weak Blast	45.9°N 71.9°W Asbestos	B	M	
14	16 19 37.3	Local Event	W.Stewartstown, N.H. or Mt.Washington,N.H.	B	M	
14	16 29 34.0	Local Event	41.6°N 70.2°W Dennis Port, Mass.	B	M	W
14	16 22 47.0	Local Event	44.8°N 72.4°W Newport, Vt.	B	M	
14	18 41 39.6	Local Event	45.9°N 71.0°W Lake St. Francis, P.Q.	B	M	C
14	16 01 50.3	Local Event	45.1°N 73.3°W Lacolle, P.Q.	B	M	
14	16 03	Local Event		B	M	
14	23 00 16.3	Weak Blast		B		
14	22 54 47.1	Weak Blast		B		
14	14 22 40.0	Weak Blast	Newcastle Bridge, N.B.	C		
14	14 28 07.1	Local Event		W		

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LOCAL SEISMIC EVENTS

Week 15 -- 21 June 1963 — Preliminary Annoucement #3

Date	Origin Time	Type Event	Epicenter	Sta. Reporting
16	03 46 48	Weak Blast	46.0°N 71.4°W Black Lake	B M
16	04 33 35	Local Event	46.7°N 71.6°W St. Antione, P.Q.	B M
17	13 28 12	Local Event	46.1°N 73.2°W Sorel, P.Q.	B M
17	12 50 28	Local Event		B
17	12 54 28	Local Event		B
17	16 14 45	Local Event	45.4°N 73.7°W Montreal, P.Q.	B M
17	15 50 11	Local Event		B
17	16 20 28	Weak Blast	46.0°N 71.4°W Black Lake	B M
17	16 10 55	Local Event	45.8°N 71.6°W Ham Nord, P.Q.	B M
17	22 36 03	Local Event	45.3°N 69.1°W Milo, Maine	B M
17	19 58 45	Weak Blast	45.8°N 71.8°W Asbestos	B M
17	19 50 18	Weak Blast	46.0°N 71.3°W Black Lake	B M
17	21 51 17	Local Event	45.7°N 73.4°W L'Assumption, P.Q.	B M
17	19 42 49	Weak Blast	46.7°N 71.5°W Thetford Mines	B M
18	15 58 13	Local Event	Dover-Foxcroft, Me.	B M

Date	Origin Time	Type Event	Epicenter	Sta. Reporting		
18	16 06 27	Local Event		B	M	
18	18 39 52	Local Event	46.2°N 71.8°W Plessisville, P.Q.	B	M	
18	15 23 50	Weak Blast	46.1°N 71.3°W Black Lake	B	M	
18	16 14 46	Weak Blast	46.0°N 71.6°W Black Lake	B	M	
18	23 00 34	Weak Local	48.7°N 69.5°W	B	M	C
18	13 50 45	Local Event	46.3°N 74.6°W Alexandria, Ont.	B	M	
19	16 43 31	Local Event		B		
19	19 51 13	Weak Blast	46.0°N 71.4°W	B	M	
19	18 35 03	Weak Blast	46.2°N 71.3°W Thetford Mines	B	M	
19	19 04 58	Local Event		B		
19	18 26	Local Event		B	M	
19	02 06 17	Local Event	45.0°N 74.8°W Massena, N.Y.	B	M	
19	16 13 49	Local Event	46.0°N 71.7°W Ham Nord, P.Q.	B	M	
19	16 28 19	Local Event	45.8°N 71.7°W Ham Nord, P.Q.	B	M	
19	16 17 20	Local Event	Monson, Me. or Newport, Me.	B	M	
19	19 54 27	Local Event	46.1°N 71.9°W Arthabaska, P.Q.	B	M	
19	22 58 43	Local Event	Near Milo, Me.		M	
19	22 02	Local Event		B	M	

Date	Origin Time	Type Event	Epicenter	Sta. Reporting
19	23 06 26	Local Event		B
20	00 27 13	Local Event	46.8°N 73.4°W L'Assumption, P.Q.	B M
20	16 12 55	Local Event	45.9°N 72.1°W Danville, P.Q.	B M
20	17 42 53	Weak Blast	46.0°N 71.4°W Black Lake	B M
20	17 19 54	Local Event	45.4°N 72.1°W Sherbrooke, P.Q.	B M
20	19 52 16	Weak Blast	46.0°N 71.3°W Black Lake	B M
20	19 53 09	Weak Blast	46.0°N 71.3°W Black Lake	B M
20	19 54 09	Weak Blast	45.8°N 71.8°W Asbestos	B M
20	20 08 00	Weak Blast	46.1°N 71.3°W Thetford Mines	B M
21	18 09 24	Weak Blast	46.0°N 71.3°W Black Lake	B M
21	18 10 23	Weak Local	45.0°N 74.8°W Massena, N.Y.	B M
21	20 15 41	Weak Blast	46.1°N 71.2°W Thetford Mines	B M
21	20 14	Local Event		M
21	22 21	Local Event		B M
21	19 51 21	Weak Blast	46.1°N 71.4°W Thetford Mines	B M
21	19 53 56	Weak Blast	46.1°N 71.4°W Thetford Mines	B M
21	19 56 01	Local Event	45.8°N 71.7°W Ham Nord, P.Q.	B M

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LOCAL SEISMIC EVENTS

Week 22 June - 28 June 1963 — Preliminary Announcement #4

Date	Origin Time (G)	Type Event	Epicenter	Sta. Reporting
24	14 55 18	Depth Charge	43.0N 69.19W Bay of Maine	M B
24	14 46 14	Depth Charge	43.08N 69.19W	M B
24	14 43 10	Depth Charge	43.08N 69.19W	M B
24	14 51 08	Depth Charge	43.08N 69.4W	M B
24	14 59 37	Local Event	46.4N 71.1W Ste Marie P.Q.	M B
24	22 54 55	Local Event	44.75N 68.9W Bangor, Maine	M B
24	22 03 42	Local Event		B
25	14 14 00	Depth Charge	43.08N 69.19W	M
25	14 20 31	Depth Charge	43.08N 69.19W	M
25	14 23 24	Depth Charge	43.08N 69.19W	M
25	14 24 21	Depth Charge	43.08N 69.19W	M
25	14 27 35	Depth Charge	43.08N 69.19W	M
25	14 30 06	Depth Charge	43.08N 69.19W	M
25	17 50 41	Local Event		O
25	20 55	Local Event		M
25	23 03	Local Event		M
25	19 06 45	Local Event		M
25	20 57 55	Weak Blast		B
26	10 35 43	Local Event	Greenville, Me. or Newport, Me.	B M

Date	Origin Time (G)	Type Event	Epicenter	Sta. Reporting	
26	22 51 20	Local Event		B	
26	22 21	Local Event		B	
26	22 02	Local Event		B	
26	23 33 51	Local Event	47.4N 74.0W	B	M
26	18 08 50	Local Event	47.6N 69.5W St. Alexandre, P.Q.	B	M
26	20 02 03	Local Event	46.1N 72.1W Arthabaska, P.Q.	B	M
26	19 33 16	Local Event	Lowelltown, Me. or Augusta, Me.	B	M
26	20 05 41	Local Event	45.8N 71.2W Garthby, P.Q.	B	M
26	19 35 31	Weak Blast	46.1N 71.4W Thetford Mines	B	M
26	19 58 46	Local Event	45.4N 71.7W Montreal, P.Q.	B	M
26	19 50	Local Event		B	M
26	18 38 48	Local Event	47.4N 74.0W Kempt Lake, P.Q.	B	M
26	14 15 40	Depth Charge	43.1N 69.2W	B	M
26	14 20 07	Depth Charge	43.1N 69.2W	B	M
26	14 24 12	Depth Charge	43.1N 69.2W	B	M
26	14 27 03	Depth Charge	43.1N 69.2W	B	M
26	14 27 14	Depth Charge	43.1N 69.2W	B	M
26	18 40 02	Depth Charge	43.1N 69.2W	B	M
26	17 48 15	Depth Charge	43.1N 69.2W	B	M

Date	Origin Time (=)	Type Event	Epicenter	Sta. Reporting
26	17 07	Local Event		B M
26	Bet. 1710 and 1724	Four (4) Depth Chgs.	43.1N 69.2W	B M
26	15 02 07	Local Event		B M
26	16 12 46	Local Event	44.1N 72.8W Northfield, Vt.	B M
27	18 51 09	Weak Blast	45.8N 71.2W Garthby, P.Q.	B M
27	Bet. 14 05 and 1815	Depth Chgs. (24)	43.1N 69.2W	
27	19 53 16	Local Event		M
27	19 56 13	Local Event		M
27	20 14 19	Local Event		M
28	18 26 30	Local Event		E
28	18 20 10	Local Event	46.0N 69.0W Mt. Katahdin, Me.	E B
28	18 34 22	Local Event	45.9N 69.2W Mt. Katahdin, Me.	E B
28	17 21 20	Local Event	46.2N 68.5W Smyrna Mills, Me.	M B
28	20 37 12	Local Event		E
28	19 54 22	Local Event	46.3N 71.4W Area Lyster Sta., P.Q.	B E M
28	22 12 37	Local Event	44.8N 69.0W Newport, Me.	E B M
28	22 17 43	Local Event	44.8N 68.9W Newport, Me.	E B M
28	15 32 00	Depth Charge	46.9N 71.2W Quebec City	B M
28	16 12 54	Blast	46.1N 71.9W Arthabaska, P.Q.	B E M

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
28	16 23 11	Local Event	45.8N 71.8W Ham Nord,P.Q.	B M
28	16 23 56	Local Event	44.5N 74.0W Adirondack Mts.N.Y.	B N
28	14 53 31	Depth Charge	43.1N 69.2W	B M E
28	14 44 14	Depth Charge	43.1N 69.2W	B M E
28	15 05 03	Depth Charge	43.1N 69.2W	B M E
28	15 25 14	Depth Charge	43.1N 69.2W	B M E
28	16 06 08	Local Event		B
28	16 46	Local Event		B M
28	14 05 21	Distant Blast	47.8N 71.2W Wilds of Quebec	B M
28	14 47 24	Depth Charge	43.1N 69.2W	B M E
28	14 38 01	Depth Charge	43.1N 69.2W	B M E
28	14 59 22	Depth Charge	43.1N 69.2W	B M E
28	15 09 29	Depth Charge	43.1N 69.2W	B M E
28	15 19 53	Depth Charge	43.1N 69.2W	B M E
28	14 50 30	Depth Charge	43.1N 69.2W	B M E

LOCAL SEISMIC EVENTS

Week 29 June - 5 July 1963 *

Preliminary Announcement #5

Date	Origin Time	Type Event	Epicenter	Sta. Reporting		
29	00 39 03	Weak Blast	46.0°N 71.35°W Black Lake	B	E	
29	01 47 24.1	Local Event		B		
29	01 04 18	Local Event			E	
29	17 28 54	Weak Blast	46.1°N 71.8°W	B	E	M
July 2	14 38 00	Weak Blast	44.8°N 69.2°W Newport, Me.			M
3	16 08 42	Local Event		B		
3	20 10 15	Weak Blast	46.1°N 71.1°W	B		M
3	21 15 23	Weak Blast	46.0°N 71.3°W	B		M
4	18 26 59	Weak Blast			E	
4	19 51 33	Weak Blast	46.1°N 71.3°W Thetford Mines	B		M
5	18 25	Weak Blast			E	
5	18 36 32	Local Event	44.9°N 72.3°W Newport, Vt.	B	E	M
5	19 27 13	Weak Blast	46.1°N 71.3°W Thetford Mines	B	E	M
5	18 29	Local Event		B		
5	20 49	Weak Blast		B		
5	20 50	Weak Blast		B		
5	13 14 41	Local Event				M

* Note: Due to periodic maintenance checks the N. E. network stations were not in continuous operation from 28 June through 2 July 1963.

International Seismological Centre

LOCAL SEISMIC EVENTS

Week 13 - 19 July 1963

Preliminary Announcement #7

Date	Origin Time(G)	Type Event	Epicenter	Sta.Reporting
13	20 09 03	Weak Blast	46.8°N 71.0°W Thetford Mines	B E M
13	20 01 06	Local Event	45.9°N 71.1°W Lake St. Francis	B E
13	22 45 44	Local Event		B
13	16 16 09	Weak Blast	45.8°N 72.1°W Drummondville East, P.Q.	B E M
13	18 51 11			B
15	16 13 57	Weak Blast	45.8°N 72.0°W Asbestos, Que.	B E M O
15	18 05 02			E
15	20 07 29	Weak Blast	45.9°N 70.9°W St. Evariste St.,P.Q.	B E M O
15	20 24 50			E
16	22 50 46			B
16	16 13 02			B
16	16 26 03			B
16	16 04 51			B
16	17 21 01			E
16	22 22 51	Local Event		M
17	21 45 32			E
17	18 46 43			E
17	16 19 49			B
17	16 12 11			B

Date	Origin Time (S)	Type Event	Epicenter	Sta. Reporting
17	16 12 11			B
17	22 38 21			B
17	23 15 21	Local Event		B
17	23 43 42			B
18	00 22 44			B
18	03 42 54			B
18	18 19 46			E
18	18 20 55			E
18	17 00 28			E
18	16 13 00			B
18	15 05 33			B
18	12 17 54			E
17	13 37 51	Local Event	46.0°N 66.0°W New Castle Bridge	E C
19	13 58 02			E
19	18 04 03			E
19	16 12 40	Strong Blast	45.8°N 72.0°W Danville, P.Q.	B E C M
19	18 14 52	Local Event	45.6°N 73.3°W N.E. of Montreal	B E
19	20 07 07	Depth Charge	42.4°N 70.1°W due East of Boston	B E M
19	21 36 49			E
19	20 57 58			B
19	20 28 47			B
19	18 30 11			B

International Seismological Centre

Date	Origin Time(≡)	Type Event	Epicenter	Sta.Reporting
19	18 31 46			B
19	19 42 51			B
19	19 23 58			B
19	21 45 08			B

International Seismological Centre

LOCAL SEISMIC EVENTS

Week 20 -26 July 1963

Preliminary Announcement #8

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
20	16 12 23	Local Event	45.8°N 71.5°W Ham Nord	B M C
20	16 24 41	Weak Blast	45.8°N 71.8°W Asbestos P.Q.	B M C
20	18 21 43			E
20	18 12 33			E
20	18 05 11			E
21	18 18 21			E
21	18 05 00			E
22	16 13 05			B
22	17 01 12	Local Event	46.1°N 70.2°W	B M C
22	17 11 10			E
22	18 27 24	Weak Blast	46.2°N 70.9°W E. Broughton Sta.	M C E
22	21 36 42			E
22	19 06 33			B
22	23 57 05			B
23	00 42 41			E
23	03 45 47	Weak Blast	46.0°N 71.1°W Black Lake	B M C E
23	21 54 13			B
23	21 45 19			B
23	20 15 42			B
23	16 12 43			B

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting	
23	18 26 50	Local Event	46.3°N 70.8°W St. Joseph P.Q.	B	E
23	18 22 39				E
23	14 10 40	Local Event	46.6°N 66.0°W New Castle Bridge	B	E
24	01 38 19			B	
24	03 43 24	Weak Blast	46.0°N 71.3°W Thetford Mines	B	E
24	13 33 15				E
24	16 31 04	Local Event	45.9°N 72.0°W Warwick, P.Q.	B	E
24	16 59 03		47.5°N 72.9°W La Tuque, P.Q.	B	E
25	20 49 07			B	
25	18 27 17				E
25	18 23 42				E
26	21 46 38			B	
26	15 53 45			B	
26	16 04 53			B	
26	17 15 50			B	
26	16 15 04	Double Blast		B	
26	15 58 06			B	
26	15 07 06	Local Event	46.2°N 72.8°W Lake St. Peter, P.Q.	B	E

LOCAL SEISMIC EVENTS

Week 27 July - 2 August 1963 — Preliminary Announcement #9

Date	Origin Time (Z)	Type Event	Epicenter	Sta.	Reporting		
27	00 15 09			B			
27	16 22 49			B			
27	19 48 48			B			
31	19 47 07			B			
31	18 15 50	Weak Blast	New Castle Bridge	E			
31	20 22 00			B			
31	18 52 44			B			
31	18 23 25			B			
31	13 54 22	Weak Blast	New Castle Bridge	E			
31	18 26 34	Weak Blast	New Castle Bridge	E			
31	15 52 12	Weak Local			M		
August							
1	00 31 53			B			
1	06 34 20	Local Quake	46.8°N 66.5°W New Brunswick	B	E	M	C
1	18 38 50			B			
1	19 49 35			B			
1	19 55 32	Weak Blast	46.1°N 71.4°W Thetford Mines	B		M	C
1	16 25 34			B			
1	15 27 21	Weak Blast	45.9°N 65.5°W New Castle Bridge	E		C	
1	18 22 49	Weak Blast	?New Castle Bridge	E			

Date	Origin Time (Z)	Type Event	Epicenter	Sta.	Reporting	
1	18 32 23	Weak Blast	?New Castle Br.		E	
2	14 59 03			B		
2	18 39 23			B		
2	18 07 22		?New Castle Br.		E	
2	16 04 52			B		
2	17 54 39			B		
2	15 54 55	Weak Blast	New Castle Br. 46.8°N 65.9°W		E	C
2	16 21 15	Weak Blast	45.9°N 72.0°W Warwick, P.Q.	B	E	
2	20 47 58			B		
2	19 50 48	Weak Blast	46.1°N 70.3°W Thetford Mines	B	E	
2	20 06 17	Weak Blast	46.2°N 71.1°W E.Broughton Sta.	B	E	M

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LOCAL SEISMIC EVENTS

Week 3 -- 9 August 1963

Preliminary Announcement #10

Date	Origin Time	Type Event	Epicenter	Sta. Reporting
3	03 43 21			B
3	16 12 15	Local Event	45.9°N 72.0°W	B M C E
3	17 05 14			B
3	16 44 03			B
3	18 36 03			E
5	18 19 51			E
5	15 01 38			E
5	15 59 17			B
5	16 00 26			B
5	16 01 46			B
5	16 13 56			B
5	18 18 24			B
5	20 29 25			B
5	21 51 06			B
5	22 21 37			B
6	03 46 45			B
6	13 51 36	Weak Blast	46.1°N 71.9°W Thetford Mines	B M C
6	15 10 09	Weak Blast	46.0°N 65.9°W New Castle Bridge	M C E
6	16 29 36	Weak Blast	46.7°N 71.7°W Asbestos	B M

Date	Origin Time	Type Event	Epicenter	Sta. Reporting
6	17 15 37	Weak Blast	45.8°N 66.6°W	M C E
6	18 15 36	Double Blast	46.0°N 66.6°W New Castle Bridge	C E
6	18 23 14	Weak Blast	45.9°N 65.8°W New Castle Bridge	M C E
6	21 44 18	Weak Blast	46.4°N 70.8°W Thetford Mines	B M C E
6	21 49 46	Weak Blast	45.9°N 65.8°W New Castle Bridge	C E
7	00 43 12	Weak Blast	45.8°N 71.2°W Thetford Mines	B M
7	17 44 08			M
7	18 21 53	Weak Blast	46.1°N 65.8°W New Castle Bridge	C E
7	18 25 30	Weak Blast	46.0°N 66.6°W New Castle Bridge	C E
7	19 42 18	Weak Blast	46.2°N 71.4°W E. Broughton Sta.	B M
7	19 46 09			B
7	19 54 32	Weak Blast	45.9°N 72.2°W Asbestos	B M C
7	21 38 15	Local Event	44.5°N 65.8°W Digby, Nova Scotia	M E
7	22 45 37			B
8	15 07 36	Weak Blast	45.9°N 65.7°W New Castle Bridge	M C E
8	15			B M E
8	16 12 33	Weak Blast	46.7°N 71.7°W Asbestos	B M C

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Date	Origin Time	Type Event	Epicenter	Sta. Reportin
8	17 09 35			M C E
8	18 21 26	Weak Blast	46.0°N 66.7°W New Castle Bridge	C E
8	19 05 32	Weak Blast	46.0°N 71.9°W Black Lake	B M C E
8	20			B
8	21 19 40	Weak Blast	45.8°N 71.6°W Thetford Mines	B M E
8	22 00 19	Weak Blast	46.0°N 65.9°W New Castle Bridge	M C E
9	01 37 34			M
9	16 28 16	Blast	46.0°N 72.2°W Asbestos	B M C
9	18 08 23	Weak Blast	46.0°N 65.9°W New Castle Bridge	M C E
9	18 11			C E
9	18 18 03	Local Event	Caribou	C
9	18 23			B

LOCAL SEISMIC EVENTS

Week 10 - 16 August 1963

Preliminary Announcement #11

Date	Origin Time (Z)	Type Event	Epicenter	Station Reporting
10	01 22 45	Local Quake	47.6°N 68.5°W	B M C E
10	16 12 27	Weak Blast	45.6°N 71.9°W	B M C -
10	16 1	Weak Blast	Asbestos 46.1°N 65.9°W	- - C E
10	18 02 54	Weak Blast	New Castle Bridge 45.8°N 65.9°W	M C E
10	18 28 40	Weak Blast	46.5°N 66.6°W	M C E
11	17 59 10	Weak Blast	46.6°N 66.6°W	- - C E
12	01 54 55	Local Quake	47.8°N 69.7°W	B M C E
12	14 36 45	Underwater blast	Rivere du Loupe 43.0°N 69.3°W	B M C E
12	18 45 05	Underwater blast	43.0°N 69.3°W	B M C E
12	14 49 28	Underwater Blast	43.0°N 69.3°W	B M C -
12	14 52 04	Underwater Blast	46.4°N 71.2°W	B M C -
12	16 20 17	Local Event	45.3°N 71.2°W	B M C -
12	18 17 03	Weak Blast	46.6.°N 66.°W	- - C E
12	18 20 53	Weak Blast	46.6°N 66.6°W	- M C E
12	18 29 41	Weak Blast	46.1°N 65.9°W	- M C E
12	18 44 17	Weak Blast	45.9°N 71.4°W	B M C -
13	13 23 00	Weak Blast	Disraeli 45.9°N 65.8°W	- M C E
13	14 36 15	Two Blasts	Newcastle Bridge (46.2°N 71.9°W (46.2°N 71.8°W	B M - E
13	15 06 12	Underwater Explosion	43.3oN 69.2°W	B M - E
13	15 13 00	Underwater Explosion	43.3°N 69.2°W	B M C E

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
13	16	Local Event		B
13	16 12 49	Weak Blast	46. °N 72. °W Arthabaska, P.Q.	B M C E
13	17 12	Underwater Blast		B M C E
13	17 47	Underwater Blast		- M C E
13	18 17 37	Weak Blast	46.1°N 66.1°W	- - C E
13	18 19 53	Weak Blast	46.1°N 66.1°W	- M C E
13	18 20 53	Weak Blast	46.1°N 66.1°W	- - C E
13	19 53 18	Weak Blast	66.0°N 71.3°W Thetford Mines	B M C E
13	21 46 40	Weak Blast	44°N 73°W Northfield, Vt.	B M C -
14	11 45 06	Weak Blast	46.0°N 71.1°W Lk.St. Frances,P.Q.	B M
14	16 15 10	Weak Blast	44°N 73°W Northfield, Vt.	B M C -
14	18	Local Event		- - C E
14	19	Local Event		B M - -
14	19 52 46	Weak Blast	66.0°N 71.3°W Thetford Mines	B M C -
14	22 09 01	Local Event	Near Caribou, Me.	- - C -
15	13 27 54	Local Event		B M - -
15	13 37 02	Local Event	Near Berlin,N.H.	B - - -
15	14 26	Local Event	Near Machias,Me.	- - - E
15	14 35 24	Local Event	Near Machias,Me.	- - - E

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Date	Origin Time(Z)	Type Event	Epicenter	Sta.	Reporting
15	16 32 36	Weak ?Blast	45.8°N 72.0°W Danville, P.Q.	B	M - -
15	18 17	Local Event		B	M - -
15	18 54 37	Weak Blast	45.9°N 71.7°W Ham Nord, P.Q.	B	M C E
15	19 48 30			B	M
16	16 15 08	Weak Blast	45.5°N 71.6°W Lime Ridge,P.Q.	B	M C -
16	18 05 06	Weak Blast	45.9°N 65.8°W Newcastle Bridge, N.B.	-	M C E
16	18 22 48	Weak Blast	45.9°N 65.8°W Newcastle Bridge,N.B.	-	- C E
16	19 46 43	Weak Blast	66.0°N 71.3°W Thetford Mines	B	M C E
16	19 51 49	Local Event	45.9°N 71.3°W St. Girard P.Q.	B	M - -
16	19 55 04	Blast	45.9°N 71.2°W Megantic P.Q.	B	M C E
16	19 59 22	Blast	46.0°N 71.6°W	B	M - -
16	20 05 50	Blast	66.0°N 71.3°W Thetford Mines	B	M C -

International Seismological Centre

Notice to All Recipients

In addition to Preliminary Announcement #12, there is attached the second report covering TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK covering the month of June 1963. The seismic detection sites are located as follows:

W	-	Weston, Mass.	42°23'04.9"N	71°19'19.5"W
M	-	Milo, Maine	45°14'37"N	69°2'25"W
C	-	Caribou, Maine	46°55'57"N	68°7'15"W
E	-	E. Machias, Maine	44°44'20"N	67°29'22"W
B	-	Berlin, N.H.	44°35'26"N	71°15'23"W

Weston Observatory

27 August 1963

LOCAL SEISMIC EVENTS

Week 17 August to 23 August 1963 — Preliminary Announcement #12

Date	Origin Time	Type Event	Epicenter	Sta. Reporting
18	12 30 43			- - C E
18	15 38 10			- - - E
18	22 16 53			- - C -
19	04 17 47			- - C -
19	11 52 48			- - - E
19	14 01 09			- M - -
19	16 20 18	Weak Blast	45.8°N 71.3°W Asbestos	B M C -
19	18 22 15	Weak Blast	45.9°N 65.8°W New Castle Br.	- M C E
19	18 55	Local Event		B - - E
19	19 44 29	Blast	46.2°N 71.5°W	B M - -
19	20	Local Event		B M C E
19	22 27 24		44.8°N 69.2°W Plymouth, Me.	B M - E
20	14 08 20	Blast	Near Caribou	- - C -
20	15	Local Event		- M - -
20	16 20 54	Blast	45.8°N 71.5°W St. Gerard	- M C -
20	18 22 05	Local Event		- - - E
20	18 30 10	Blast	46.1°N 66.1°W New Castle Br.	- - - E
20	18 45 19	Blast	66.0°N 71.3°W Thetford Mines	- M - -
20	21 31 25			- - C -

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting
21	11 38 57			- - C -
21	14 01 56	Local Event		B - C -
21	14 25	Local Event		- - C -
21	14 29	Local Event		- - C -
21	14 33 44	Local Event		- - - E
21	15 03	Local Event		- M - -
21	15 06 10	Underwater Blast	43.5°N 69.2°W	B M C E
21	16 15 23	Blast	45.6°N 71.9°W Windsor, P.Q.	B M C -
21	18 08 16	Blast	46.1°N 66.1°W New Castle Br.	- - C E
21	18 20 54	Underwater Blast	43.1°N 69.2°W	- M C E
21	18 59 08	Underwater Blast	43.1°N 69.2°W	B M C E
21	21 43 20	Blast	45.6°N 73.1°W St. Hilaire,P.Q.	B M - -
22	11 28	Local Event		- - C -
22	15 41 05	Underwater Blast	43.1°N 69.2°W	B M C E
22	16 13	Local Event		B - - -
22	16 19 19	Blast	45.7°N 71.8°W Asbestos	B M - -
22	16 44 01	Blast	46.1°N 74.5°W	B M - E
22	17 17 24	Blast	46.1°N 66.1°W New Castle Br.	- - C E
22	17 57 19	Depth Charge	44.0°N 64.0°W	B M C E
22	18 07 00	Blast	45.2°N 72.3°W Knowlton,P.Q.	B M - E

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting
22	18 23 53	Blast	46.1°N 66.1°W New Castle Br.	- - C E
22	18 40 00	Blast	46.1°N 66.1°W New Castle Br.	B M C E
22	19 52 40	Blast	46.0°N 71.3°W Thetford Mines	B M C E
22	19 55 30	Blast	46.2°N 71.3°W	B M - -
22	19 58 21	Blast	45.9°N 71.1°W Lake St. Frances	B M C E
22	20 22 11	Blast	46.2°N 71.1°W N. Broughton Sta. P.Q.	B M - -
22	21 50 49	Blast	Near Berlin, N.H.	B - - -
22	22 38 06	Blast	Asbestos, P.Q.	B - - -
22	22 43	Local Event		B - - -
22	22 59	Local Event		B - - -
22	23 14 04	Blast		B - - -
22	23 37	Local Event		B - - -
23	00 08	Blast		B - - -
23	14 04 05	Local Event		- - C -
23	14 30 17	Blast	46.1°N 70.7°W St. Georges, P.Q.	- M C E
23	14	Local Event		- - C E
23	15 16 00	Blast	Asbestos	B - - -
23	16 28 00	Blast	Asbestos	B M C -
23	17 11	Local Event		- M C -
23	18 18 49	Blast	45.9°N 71.9°W	B - C -
23	18 23 23	Strong Blast	46.1°N 66.1°W Newcastle Br.	B M C E

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Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
23	18 52 07	Strong Blast	45.9°N 71.2°W Lake St.Frances, P.Q.	B M C E
23	19 35 33	Local Event	44.3°N 72.6°W Montpelier, Vermont	B M - -
23	19 49 36	Blast	46.1°N 71.2°W Thetford Mines	B M - -
23	20 07 22	Local Event		B - - -
23	20 55 08	Local Event	45.8°N 71.0°W	B M C -
23	21 08	Local Event		B - - -
23	20 43 32	Local Event	45.7°N 73.0°W St. Jude, P.Q.	B M - -

International Seismological Centre

TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK - June 1963

Date	Origin Time (Z)	Location	Milo	Berlin	Caribou	Weston	E.Mach
2	21 04 24	Sandwich Isl.Reg.	P'	P'	P'	P'	-
2	00		P	P	-	-	-
2	04		P	P	-	-	-
2	22 22 00	Coast of Guatemala	P	P	-	P	-
3	11 31 48	Columbia	P	P	P	P	-
4	21 04 42	Halmahera Reg.	P'	P'	-	-	-
4	11 54 09	Kermadec Isl.	P'	P'	-	-	-
7	19 30 35	Clipperton Isl.Reg.	P	P	P	-	-
8	13 34 23	S. Alaska	S	-	-	-	-
8	16		eP	eP	-	-	-
9	20		P	P	P	-	-
10	04 16 37	W. of Macquarie Isl.	P'	P'	P'	P'	-
10	06 39 04	W. of M. I.	P'	P'	P'	P'	-
11	13 08 31	Central Alaska	P	P	P	P	-
13	16 59 10	Nr.Coast Central Chile	P	P	-	-	-
17	18 32 14	SW Yukon	P	P	P	P	-
17	23 02 06	Nr.S.Coast Sumatra	P'	P'	P'	P'	-
18	16 54 05	N. of Puerto Rico	P	P	-	-	-
19	18		P	P	-	-	-

International Seismological Centre

Date	Origin Time(Z)	Location	Phases Received				
			Milo	Berlin	Caribou	Weston	E.Mac
19	11 58 55	Solomon Islands	P'	P'	-	-	-
21	12 18 26	Jujuy Prov.,Argentina	P	P	P	-	-
24	04 26 37	Cook Inlet, Alaska	P	P	P	P	-
			PcP	PcP	PcP	PcP	-
			PP	PP	PP	PP	-
			S	S	S	S	-
			SS	SS	SS	SS	-
			Q	-	-	-	-
24	14 18 29	SE Alaska	PPP	PPP	PPP	-	-
24	16 17 15	Fox Isl.Reg.Aleut.	P	P	P	P	-
26	17 24 40	Nr.Coast of Panama	P	P	P	P	P
27	07 23 15	Fiji Isl.Region	P'	P'	-	P'	P'
27	07 08 01	Yukon Terr.	P	P	-	P	P
27	13		P	P	-	-	-
28	21 55 38	Kurile Isl. Reg.	P	P	-	-	P
28	02 28 51	Indian Ocean	P'	P'	-	-	P'
28	22 57 03	Kurile Isl.Reg.	P	P	-	-	P
28	23 16 56	Nr.N.Coast New Guinea	-	P'	-	-	P'
29	23 53 56	Kurile Isl. Region	P	P	-	-	P

LOCAL SEISMIC EVENTS

Week 24 - 30 August 1963 — Preliminary Announcement #13

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting *
24	07 49 01	Local Event	Near Machias	- - - E -
24	15 46 29	Local Event	Near Berlin	B - - - -
24	16 20 18	Blast	Near Berlin	B - - - -
24	17 02 07	Blast	45.8°N 71.7°W Ham Mt.	B - - E -
24	18 03 39	Local Event	Near Machias	- - - E -
24	18 05 25			B - - E -
24	19 35 41	Local Event	Near Berlin	B - - - -
24	20 19 22	Blast	46.0°N 72.2°W Carmel, P.Q.	B - - E -
25	17 49 05	Local Event	Near Machias	- - - E -
26	02 41	Local Event		B - - - -
26	14 15	Local Event		- - C - -
26	16 11 46	Local Event	Near Berlin	B - - - -
26	16 29 04	Local Quake	New York	B M C E -
26	18 08 34	Blast	New Castle Br.	- - C E -
26	19 28 50	Local Event	Near Berlin	B - - - -
26	19 53 27	Blast	46.2°N 71.4°W	B M - - -

* W - Weston, Mass. 42°23'04.9"N 71°19'19.5"W
M - Milo, Maine 45°14'37"N 69°2'25"W
C - Caribou, Maine 46°55'57"N 68°7'15"W
E - Marshfield, Maine 44°44'20"N 67°29'22"W
B - Berlin, N.H. 44°35'26"N 71°15'23"W

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting
26	19 57 17	Blast	46.2°N 71.4°W	B M - - -
26	20 29 02	Local Event	Near Berlin	B - - - -
26	21 17 49	Local Event	Near Berlin	B - - - -
26	22 44	Local Event	Near Berlin	B - - - -
27	02 32	Local Event		B - C - -
27	15 28 27	Local Event	Near Berlin	B - - - -
27	15 50	Local Event	Near Berlin	B - - - -
27	16 12 42	Blast	45.8°N 71.9°W Asbestos Mines	B M - - -
27	17 17	Local Event		- M C - -
27	17 37 53	Blast	45.7°N 72.4°W	B M - - -
27	18 28 58	Blast	New Castle Br.	- - C E -
27	18 50 25	Blast	46.1°N 71.1°W Thetford Mines	B M C - -
27	18 58 17	Blast	46.3°N 71.0°W E. Broughton Sta.	B M C E -
27	19 43 42	Local Event	Near Berlin	B - - - -
27	19 50 36	Blast	46.3°N 71.0°W E. Broughton Sta.	B M C E -
27	19 54 04	Blast	46.2°N 70.9°W	B M C - -
27	20 08 18		46.8°N 69.97°W Lac Frontiere, Me-Que.	B M - - -
27	20 45	Local Event	Near Berlin	B - - - -
27	22 04 03		46.68°N 73.27°W (20mi. NE of Montreal)	B M - - -
28	13 07 04		46.70°N 70.15°W St. Philemon, P.Q.	- M C - -

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting
28	14 34 00	Depth Charge	44.37°N 69.30°W Bay of Maine	B M C E =
28	15 10 46	Depth Charge	43.4°N 69.3°W Bay of Maine	B M - E -
28	15 17 18	Depth Charge	43.4°N 69.3°W Bay of Maine	B M C E -
28	15 21 28	Depth Charge	43.4°N 69.3°W Bay of Maine	B M - E -
28	15 51 52	Blast	45.72°N 71.28°W Nr. Richmond, P.Q.	B M - - -
28	16 13 39	Depth Charge	43.4°N 69.3°W Bay of Maine	B M - E -
28	16 18	Blast		B - - - -
28	16			B - - - -
28	17 31 38	Depth Charge	43.0°N 69.4°W Bay of Maine	B M C E -
28	17 35 27	Depth Charge	43.0°N 69.4°W Bay of Maine	B M C E -
28	17 47 52	Depth Charge	43.17°N 69.3°W Bay of Maine	B M C E -
28	17 58 04	Depth Charge	44.1°N 69.2°W Bay of Maine	B M C E -
28	18 15 50	Blast	45.98°N 66.05°W New Castle Br.	- M C E -
28	18 55 28	Blast	45.92°N 71.13°W Lake St. Francis	B M C - -
28	19 35 01	Depth Charge	43.27°N 68.27°W Bay of Maine	B M - E -
28	19 41 16	Depth Charge	43.4°N 69.3°W Bay of Maine	B M C E -

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting
28	21 43			B - - - -
28	22 57 40			B - - - -
29	14 02 40	Blast	45.9°N 65.8°W New Castle Br.	- M C E -
29	15 36 56			B - - - -
29	15 55 12			B - - - -
29	16 08 13	Depth Charge	43.2°N 69.3°W Bay of Maine	B M C E -
29	16 13 06	Depth Charge	43.4°N 69.3°W Bay of Maine	B M C E -
29	16 15 29	Depth Charge	43.5°N 69.2°W Bay of Maine	B M C E -
29	16 25 03	Blast	45.84°N 72.1°W Danville, P.Q.	B M - - -
29	16 36 25	Blast	45.70°N 71.60°W S. of Ham Mt.	B M C - -
29	18 22 24	Blast	46.0°N 66.1°W New Castle Br.	- M C E -
29	18 23 54	Blast	46.0°N 66.1°W New Castle Br.	- M C E -
29	18 45 06	Blast	45.97°N 71.24°W Black Lake	B M C - -
29	18 47 55	Blast	45.62°N 73.27°W 20 mi.NE of Montreal	B M - - -
29	19 54 08	Blast	45.85°N 71.15°W nr. Lake St.Francis PQ.	B M C - -
29	19 56 03	Blast	45.8°N 71.1°W nr. Lake St.Francis PQ	B M C - -
29	20 06 13	Blast	46.0°N 70.9°W nr.Ste Everiste Sta.	B M - - -

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting
29	23 29 01			B - - - -
30	13 52 58	Blast	46.1°N 66.0°W New Castle Br.	- M C E -
30	15 51 22			B - - - -
30	15 52			B - - - -
30	15 52 34			B - - - -
30	16 14 01	Blast	Thetford Mines	B - - - -
30	18 14 35	Blast	46.0°N 66.0°W New Castle Br.	- - C E -
30	18 17 50	Blast	46.0°N 66.0°W New Castle Br.	- - C E -
30	19 44 41	Blast	Thetford Mines	B - - - -
30	19 50 55			B - - - -
30	20 01 08	Local Event	46.3°N 71.9°W Vallee Junction, P.Q.	B M - - -
30	22 47 53	Local Event		B - - - -
30	23 54 49	Local Event	45.7°N 73.2°W Vercheres, P.Q.	B M

International Seismological Centre

Notice to All Recipients

In addition to Preliminary Announcement #14, there is attached the third report of TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK for the month of July 1963. Network seismic detection sites are located as follows:

W	- Weston, Mass.	42°23'04.9"N	71°19'19.5"W
M	- Milo, Maine	45°14'37"N	69°2'25"W
C	- Caribou, Maine	46°55'57"N	68°7'15"W
E	- E.Machias,Maine	44°44'20"N	67°29'22"W
B	- Berlin, N.H.	44°35'26"N	71°15'23"W

Weston Observatory

10 September 1963

International Seismological Centre

LOCAL SEISMIC EVENTS

Week 31 August - 6 September 1963 — Preliminary Announcement #14

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting
31	00			B - - - -
31	14 36	Blast	New Castle Br.	- - C E -
31	19 20 45	Blast	46.25°N 71.0°W E. Broughton Sta.	B M C - -
31	19 49 35	Blast	46.3°N 71.5°W 20 mi.NW Thetford Mines	B M - - -
31	19 55 50	Blast	46.05°N 66.0°W New Castle Br.	- - C E -
31	22 06 15	Blast	46.1°N 72.8°W Pierreville,P.Q.	B M - - -
31	22 49 40	Blast	46.1°N 72.8°W Pierreville,P.Q.	B M - - -
September				
2	18 13	Blast	New Castle Br.	- - C E -
3	12 49 58	Blast	New Castle Br.	- M C E -
3	16 29 06	Blast	45.6°N 72.75°W bet.Actonvale and St. Hyacinthe, P.Q.	B M - - -
3	18 21 50	Blast	New Castle Br.	- M C E -
3	18 30 35	Blast	46.0°N 65.9°W New Castle Br.	- M C E -
3	19 51 53		45.9°N 71.3°W Disraeli, P.Q.	B M - - -

Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting
3	19 52 38	Blast	46.0°N 71.3°W Black Lake P.Q.	B M - - -
4	15 43 02	Blast	44.8°N 69.2°W Plymouth, Me.	- M - E -
4	16 12 21	Blast	46.0°N 72.4°W Carmel, P.Q.	B M C - -
4	17 23 25	Blast	New Castle Br.	- M C E -
4	18 08 16	Blast	New Castle Br.	- M C E -
4	19 45 01	Blast	New Castle Br.	- - C E -
4	19 45 51	Blast	46.0°N 71.3°W Black Lake, P.Q.	B M C - -
4	20 40 56	Blast	46.2°N 71.4°W E.Broughton Sta.	B M C - -
5	14 47 59	Blast	New Castle Br.	- M C E -
5	14 53 49	Local Event	44.2°N 69.0°W Camden, Me.	B M - E -
5	16 21 16	Local Event	45.9°N 72.5°W Drummenville, P.Q.	B M C - -
5	18 18 55	Blast	New Castle Br.	- M C E -
5	18 19 55	Blast	New Castle Br.	B M - E -
5	18 32 50	Blast	46.2°N 71.5°W 20 mi.NW Thetford Mines	B M C - -
5	19 05 16	Blast	44.2°N 69.0°W Camden, Maine	B M - E -
5	19 51 55	Blast	45.8°N 71.1°W Lake St. Francis, P.Q.	B M C - -
5	19 55 58	Blast	46.2°N 71.4°W Thetford Mines	B M - - -

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Date	Origin Time(Z)	Type Event	Epicenter	Sta. Reporting					
5	20 03 25	Blast	46.0°N 71.3°W Black Lake P.Q.	B	M	C	-	-	
6	16 14 04	Blast	45.75°N 71.86°W Asbestos, P.Q.	B	M	C	-	-	
6	16 26 30	Blast	45.7°N 71.95°W Asbestos, P.Q.	B	M	C	-	-	
6	19 50 11	Blast	46.28°N 71.44°W E. Broughton Sta.	B	M	C	-	-	
6	19 54 22	Blast	46.03°N 71.35°W Black Lake	B	M	C	-	-	
6	20 10 15	Blast	46.05°N 66.05°W New Castle Br.	-	M	C	E	-	
6	20			B	M	-	-	-	

International Seismological Centre

TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK - July 1963

Date	Origin Time (Z)	Location	Phases Received				
			Milo*	Berlin*	Caribou*	Weston*	E.Machi
4	10 58 13	Tonga Isl.Reg.	P'	P'	-	-	P'
5	05 48 13	Peru	P	P	-	-	P
7	19 35		eP'	eP'	-	-	eP'
8	17 49 30	Central Alaska	eP S	eP S	- -	- -	eP S
9	09 24 33	Costa Rica-Panama Border	eP	-	-	-	-
9	21 11		P	-	-	-	-
9	21 18		-	P	-	-	-
10	05 22 57	Kurile Isl.Reg.	P	P	P	-	P
10	11 47 35	So. Peru	P	P	P	-	P
11	19 41		P	-	P	-	P
13	13 41		P	P	P	-	P
14	05 41 43	Coast No.Venezuela	P	P	P	-	P
15	08 41 07	Kamchatka	P	P	P	-	P
16	18 27 18	Georgia SSR	?	?	?	-	?
17	07 01 57	Java	-	P'	-	-	P'

- - - - - - - - - - -

* Weston, Mass. 42°23'04.9"N 71°19'19.5"W
Milo, Maine 45°14'37"N 69°2'25"W
Caribou, Maine 46°55'57"N 68°7'15"W
E.Machias, Maine 44°44'20"N 67°29'22"W
(Marshfield)
Berlin, N.H. 44°35'26"N 71°15'23"W

International Seismological Centre

Date	Origin Time(Z)	Location	Phases Received				
			Mile	Berlin	Caribou	Weston	E.Machi
17	11 57 06	Georgia, SSR	P	P	P	-	P
18	04 58 09	Sandwich Isl.Reg.	P S	P S	P S	- -	P S
18	00 04 05	Vancouver Isl.Reg.	e	e	e	-	e
19	05 46 05	Liguarian Sea	P PcP pP pPcP	P PcP pP pPcP	P PcP pP pPcP	P PcP pP S ScS SS	P PcP pP pPcP
19	11 46 39	Andreanof Isl.Aleut.	P	P	P	-	P
20	00 11 35	Yukon	i e	- e	i e	- -	- e
20	06 36 10	Macquirie Isl.Reg.	P	P	P	-	P
25	07 04 21	No. Colombia	P	P	P	-	P
24	23 12		-	P	-	-	P
26	04 17 16	So. Yugoslavia	P	P	P	-	P
27	05 58 23	Liguarian Sea	-	-	P	-	-
28	07 55 21	off Coast of Java	P'	-	P'	-	-
30	06 52 22	Kamchatka	P	P	P	-	P

LOCAL SEISMIC EVENTS

Week 7 - 13 September 1963 — Preliminary Announcement #14

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting*
7	11 42 34	Blast	46.04°N 71.86°W Thetford Mines	B M C - -
7	12 47 03	Blast	46.05°N 65.8°W Cumberland Bay, P.Q.	- M C E -
7	16 13 24	Blast	45.75°N 71.85°W Asbestus, P.Q.	B M C E -
7	17 50 55	Blast	46.0°N 66.0°W Grand Lake, N.B.	- M C E -
7	18 26 23	Local Quake	44.48°N 68.25°W Mt. Desert Island, Maine	B M - E -
7	18 54 51	Blast	46.1°N 71.3°W Thetford Mines	B M C - -
7	19 49 04	Blast	46.1°N 71.48°W nr. Thetford Mines	B M C - -
8	18 07 19	Blast	46.05°N 66.05°W New Castle Bridge	- M C E -
8	20 26 55	Local Quake	43.5°N 69.9°W Off Portland Harbor	B M C E -
9	18 31 44	Blast	46.0°N 66.0°W Grand Lake, N.B.	- M C E -

* W - Weston, Mass. 42°23'04.9"N 71°19'19.5"W
M - Milo, Maine 45°14'37"N 69°2'25"W
C - Caribou, Maine 46°55'57"N 68°7'15"W
E - Marshfield, Maine 44°44'20"N 67°29'22"W
B - Berlin, N.H. 44°35'26"N 71°15'23"W

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting				
9	18 52 15	Blast	45.92°N 70.40°W Disraeli, P.Q.	B	M	C	-	-
9	19 49 49	Blast	46.2°N 71.6°W nr. Plessisville, P.Q.	B	M	C	-	-
9	19 53 36	Blast	46.17°N 72.31°W North of Thetford Mines	B	M	C	-	-
9	23 28 06	Blast	46.18°N 71.32°W North of Thetford Mines	B	M	C	-	-
10	14 13 22	Blast	46.05°N 65.85°W Cumberland Bay, P.Q.	-	M	C	E	-
10	15 43 50	Blast	46.05°N 71.29°W Thetford Mines	B	M	-	-	-
10	15	S Wave		B	M	-	-	-
10	16 13 58	Blast	45.93°N 72.98°W Warwick, P.Q.	B	M	C	E	-
10	15	S Wave		B	M	-	-	-
10	18	S Wave	New Castle Bridge Area	-	M	C	E	-
10	18 24 19	Blast	46.0°N 65.90°W Cumberland Bay, P.Q.	-	M	C	E	-
10	19 46 47	Blast	46.23°N 71.54°W Between Plessisville and East Broughton Station	B	M	C	-	-
10	19 51 47	Blast	46.24°N 71.54°W Between Plessisville and East Broughton Station	B	M	C	E	-
10	20 05 20	Blast	45.9°N 71.5°W Between Ham Nord and Disraeli	B	M	C	E	-

International Seismological Centre

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting				
10	21 16 13	Blast	43.2°N 73.4°W Salem, N.Y.	B	M	-	-	-
10	22 01 05	Blast	Near Machias	-	-	-	E	-
10	22 11 30	Local Event	Near Berlin	B	-	-	-	-
10	23 06 01	Blast	Near Milo	-	M	-	-	-
11	14 13 22	Blast	46.03°N 66.17°W New Castle Bridge	-	M	C	E	-
11	16 13 08	Blast	46.08°N 72.4°W Near Carmel, P.Q.	B	M	C	-	-
11	16 27 24	Blast	45.83°N 72.13°W Near Drummondville East, P.Q.	B	M	C	-	-
11	17 07 57	Blast	44.3°N 69.0°W Lincolnville, Me.	B	M	C	E	-
11	17 50 30	Blast	46.05°N 71.4°W Near Black Lake	B	M	C	-	-
11	18 14 08	Blast	46.03°N 65.85°W Cumberland Bay, N.B.	-	M	C	E	-
11	18	S Wave	New Castle Bridge	-	M	C	E	-
11	18 23 24	Blast	46.10°N 66.00°W New Castle Bridge	-	M	C	E	-
11	19 45 53	Blast	46.15°N 71.75°W Plessisville, P.Q.	B	M	C	-	-
11	19 51 02	Blast	46.1°N 71.4°W Near Thetford Mines	B	M	-	-	-
11	19 55 10	Blast	45.75°N 71.92°W Asbestos, P.Q.	B	M	-	-	-

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
11	20	S Wave		B M - - -
11	20 08 16	Blast	46.1°N 71.3°W Thetford Mines	B M C - -
12	19 46 34	Blast	46.1°N 71.3°W Thetford Mines	B M C - -
12	19	S Wave		B M C - -
12	19 50 57	Blast	46.15°N 71.5°W Near Thetford Mines	B M C - -
12	20	S Wave		B M - - -
13	13 34 59	Blast	46.1°N 66.05°W New Castle Bridge	- M C E -
13	15	S Wave		B M - - -
13	16 34 33	Blast	45.87°N 72.05°W Near Danville, P.Q.	B M C - -
13	17 42 30	Blast	46.1°N 66.0°W New Castle Bridge	- - C E -
13	18 27 30	Blast	46.1°N 66.0°W New Castle Bridge	- M C E -
13	19 21 12	Blast	46.1°N 71.45°W Near Thetford Mines	B M C - -
13	19 25 40	Blast	46.08°N 66.1°W New Castle Bridge	- M C E -
13	19	S Wave		B M C - -
13	20 14 31	Local Event	44.83°N 69.25°W Newport, Maine	B M C E -

International Seismological Centre

LOCAL SEISMIC EVENTS

Week 14 - 20 September 1963 — Preliminary Announcement #16

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting*
14	16 13 13	Blast	45.95°N 71.95°W Warwich, P.Q.	B M C - -
14	16 24 13	Blast	45.9°N 72.2°W W. of Warwich, P.Q.	B M C - -
14	17 01 27	Blast	44.6°N 69.2°W Near Dixmunt, Me.	- M C E -
14	18 09 42	Blast	45.95°N 65.8°W Cumberland Bay, N.B.	- M C E -
14	18 24 27	Blast	46.0°N 65.9°W Newcastle Bridge, N.B.	- M C E -
14	19 03 33	Blast	46.3°N 71.6°W Near Plessisville, P.Q.	B M C - -
14	19 34 58	Blast	45.2°N 72.3°W Lake Memphremagog, Vermont	B M - - -
14	10 12 04	Blast	46.2°N 71.4°W Thetford Mines	B M C E -
15	13 58 10	Blast	46.0°N 65.9°W Cumberland Bay, N.B.	B M C E -
15	14 02 44	Blast	45.0° 71.6°W W. of Black Lake	B M - E -
16	15 59 23	Blast	42.9°N 74.0°W N. of Schenectady, New York	B M C - -

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*W - Weston, Mass.	42°23'04.9"N	71°19'19.5"W
M - Milo, Maine	45°14'37"N	69°2'25"W
C - Caribou, Maine	46°55'57"N	68°7'15"W
E - Marshfield, Maine	44°44'20"N	67°29'22"W
B - Berlin, N.H.	44°35'26"N	71°15'23"W

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
16	16 37	S Wave	46.0°N 65.9°W Newcastle Bridge	- - C E -
16	18 13 41	Blast	46.8°N 65.9°W Grand Lake, N.B.	- M C E -
16	18 20	S Wave	46.0°N 65.9°W Newcastle Bridge	- - C E -
16	18 26 11	Blast	46.0°N 65.9°W Newcastle Bridge	- M C E -
16	19 52 46	Blast	46.05°N 71.4°W Black Lake, P.Q.	B M C - -
16	20 02 13	Blast	46.3°N 71.6°W Near Thetford Mines	B M C E -
16	20 06 45	Blast	46.1°N 71.3°W Black Lake, P.Q.	B M - - -
16	21 10 03	Blast	45.6°N 72.05°W Near Windsor, P.Q.	B M C - -
16	22 07 28	Local Event	Near Machias	- - - E -
17	16 02 51	Blast	46.0°N 65.9°W Newcastle Bridge	- M C E -
17	18 25 46	Blast	46.0°N 65.9°W Newcastle Bridge	- M C E -
17	18 38 50	Blast	46.1°N 71.6°W W. of Black Lake	B M C - -
17	19 42 56	Blast	46.3°N 71.1°W East Broughton Station	B M - - -
17	19 50 59	Blast	46.1°N 71.6°W W. of Black Lake	B M C - -

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
17	23 05 08	Blast	45.5°N 72.4°W Near Eastman, P.Q.	B M - - -
18	05 34	Underwater Blast	44°N 64°W Off Halifax, N.S.	B M C E -
18	05 45	Underwater Blast	44°N 64°W Off Halifax, N.S.	- M - E -
18	16 27 13	Blast	46.0°N 72.1°W Near Victoriaville, P.Q.	B M C - -
18	17 04 19	Blast	45.9°N 65.9°W Near Newcastle Bridge, N.B.	- M C E -
18	18 47 33	Blast	46.1°N 71.6°W Near Thetford Mines	B M C - -
18	19 45 00	Blast	46.05°N 71.3°W Thetford Mines	B M C E -
18	19 51 20	Blast	46.1°N 71.6°W Near Thetford Mines	B M C - -
18	20 18 23	Blast	43.8°N 71.3°W Lake Winnipeusaukee, N.H.	B M - E -
18	21 49 [illegible]	Underwater Blast	42.6°N 62.6°W N. Atlantic Ocean	- M C E -
18	[illegible] 19 04	Blast	45.65°N 73.55°W Montreal, P.Q.	B M - - -
19	14 10	S Wave	46.0°N 65.9°W Newcastle Bridge	- - C E -
19	16 19 32	Blast	45.85°N 72.2°W W. of Warwick, P.Q.	B M C - -
19	16 38 52	Underwater Blast	42.6°N 62.6°W N. Atlantic Ocean	- M C E -
19	18 18 16	Blast	45.95°N 65.95°W Near Newcastle Bridge	- M C E -

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
19	18 48	S Wave		B M - - -
19	19 14 50	Underwater Blast	42.6°N 62.6°W N. Atlantic Ocean	- M C E -
19	19 49	Underwater Blast		- M - E -
19	20 05 26	Blast	45.9°N 72.0°W Warwick, P.Q.	B M C - -
19	21 59 49	Underwater Blast	42.6°N 62.6°W N. Atlantic Ocean	B M C E -
19	23 43 57	Blast	45.5°N 73.7°W Montreal, P.Q.	B M - - -
20	16 13 54	Blast	46.1°N 71.9°W Arthabaska, P.Q.	B M - - -
20	16 35 24	Blast	46.0°N 72.1°W Near Victoriaville, P.Q.	B M C - -
20	17 09 50	Blast	46.0°N 66.1°W Newcastle Bridge	- M C E -
20	18 48 49	Blast	45.98°N 71.3°W Black Lake, P.Q.	B M C - -
20	19 43 59	Blast	46.25°N 71.6°W Near Thetford Mines	B M - - -
20	20 06 48	Blast	46.4°N 71.3°W Near East Broughton Station	B M C - -
20	20 04 30	Blast	45.9°N 72.0°W Warwick, P.Q.	B M - - -
20	20 54 59	Blast	45.5°N 73.0°W Near St. Pie, P.Q.	B M - - -

International Seismological Centre

LOCAL SEISMIC EVENTS

Week 21 - 27 September 1963 — Preliminary Announcement #17

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting*
21	05 04 22.0	Blast	71.2°W 46.3°N E. Broughton Sta.	B M - - -
21	11 58 38.8	Blast	45.6°N 73.6°W Montreal, P.Q.	B M - - -
21	13 05 55.6	Blast	46.0°N 65.9°W Newcastle Br. N.B.	M C - - -
21	13 22 21.9	Blast	46.1°N 71.3°W Black Lake, P.Q.	B E M - -
21	13 35 57.8	Blast	46.4°N 71.9°W	B M - -
21	16 21 36.9	Local Event		B - - - -
21	18 17 48.9	Blast	66.0° W 46.0° N New Castle Bridge, N.B.	E C M - -
21	18 28 28.6	Blast	65.7°W46.0°N Cumberland Bay, N.B.	E C M - -
	19 55 59.0	Blast	45.8°N 72.0°W Asbestos, P.Q.	B M C

- - - - - - - - - - - - - - -

*W - Weston, Mass.	42°23'04.9"N	71°19'19.5"W
M - Milo, Maine	45°14'37"N	69°2'25"W
C - Caribou, Maine	46°55'57"N	68°7'15"W
E - Marshfield, Maine	44°44'20"N	67°29'22"W
B - Berlin, N. H.	44°35'26"N	71°15'23"W

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting*
21	21 49 26.6	Blast	72.2W 45.5N Sherbrooke, P.Q.	B M
23	11 34 41.8	Blast	65.9W 46.0N Newcastle Bridge, N.B.	E C M
	16 24 51.9	Blast	71.9W 45.9N Warwick, P.Q.	B MC
	19 48 20.0	Blast	71.45W 46.05N Black Lake, P.Q.	B M C
	19 51 25.5	Blast	71.6W 46.2N W. of Thetford Mines, P.Q.	B M C
	20 00 12.0	Blast	72.0W 46.0N N. of Warwick, P.Q.	B M C
	22 45 28.5	Blast	45.3N 74.5W E. of Alexandria, P.Q.	B M C
	23 01 25.2	Blast	45.7N 73.6W Montreal, P.Q.	B M
24	16 54 10.0	Blast	45.6N 72.6W Actonvale, P.Q.	B M
	19 33 45.7	Blast	71.5W 46.0N Black Lake, P.Q.	B M C
	20 21 23.5	Blast	71.2W 46.1N Black Lake, P.Q.	B M C

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting*
24	20 26 50.0	Local Event	46.1N 77.2W	B C M
	22 12 56.2	Blast	45.7N 73.6W Montreal, P.Q.	B M
25	15 42 55.9	Blast	65.9W 46.0N Newcastle Bridge, N.B.	E C M
	16 14 36.8	Blast	72.0W 45.9N Warwick, P.Q.	B M C
	16 25 50.0	Blast	72.0W 45.9N Warwick, P.Q.	B M C
	18 18 49.2	Underwater Blast	43.3N 70.5W Bay of Maine	B E M C
	18 33 27.0	Blast	71.5W 46.2N Thetford Mines	B M C
	19 52 49.2	Blast	71.5W 46.1N Black Lake	B M C
	19 53 19.3	Blast	71.5W 46.1N Black Lake	B M C
	23 14 04.3	Blast	45.7N 73.6W Montreal	B M
	23 34 41.9	Local Event	45.0N 73.7W Hemmingford, N.Y.-P.Q.	B M C

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting*
26	14 40 21.5	Blast	65.9W 46.0N Newcastle Bridge, N.B.	E C M
	16 14 20.5	Blast	72.1W 46.0N Warwick, P.Q.	B M
	16 24 47.1	Blast	72.1W 46.0N Warwick, P.Q.	B M
	17 30 54.6	Underwater Blast	66.3W 40.8N	B M C E
	17 49 17.0	Blast Underwater	Bay of Maine 67.3W 47.9N	E M B
	18 04 00.2	Blast	45.9N 65.95W Newcastle Bridge, N.B.	E C M
	18 23 30.3	Underwater Blast	69.7W 43.0N Bay of Maine	B M E C
	18 37 14.6	Blast	45.95N 66.0W Newcastle Bridge	E C M
	19 50 10.3	Blast	71.45W 46.0N Black Lake	B M C
	19 58. 56.4	Blast	72.2W 45.8N W. of Warwick, P.Q.	B M
27	02 34 00.2	Blast	45.6N 73.6W Montreal, P.Q.	B M

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting *
27	03 48 06.7	Blast	71.4W 45.9N Black Lake, P.Q.	B M
	05 51 35.0	Blast	73.6W 45.6N Montreal, P.Q.	B M C
	06 18 02.5	Blast	73.6W 45.6N Montreal, P.Q.	B M
	16 14 56.8	Blast	45.7N 73.5W Montreal, P.Q.	B M C
	17 39 56.3	Local Event	43.2N 74.9W Salisbury Center, N.Y.	B M C
	18 37 31.8	Blast	46.1N 71.4W Black Lake, P.Q.	B M C
	19 16 04.2	Blast	46.0N 65.95W Newcastle Bridge	E C M
	19 44 12.0	Blast	71.4W 46.0N Black Lake	B M C
	19 48 22.0	Blast	71.35W 46.0N Black Lake	B M
	19 51 53.7	Blast	71.4W 46.0N Black Lake	B M C
	19 54 54.5	Blast	72.0W 45.9N Warwick, P.Q.	B M C

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Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting *
27	20 04 07.6	Blast	71.2W 46.2N E. of Thetford Mines	B M
	21 21 54.8	Blast	45.6N 73.6W Montreal, P.Q.	B M
	21 33 28.7	Blast	45.6N 73.6W Montreal, P.Q.	B M
	21 51 52.5	Blast	45.6N 73.3W Montreal, P.Q.	B M
	22 28 22.7	Blast	71.5W 46.2N Thetford Mines, P.Q.	B M C
	22 48 56.8	Local Event	73.0W 45.15N Farnham, P.Q.	B M

International Seismological Centre

Notice to All Recipients

In addition to Preliminary Announcement #18, there is attached the ~~third~~ fourth report covering TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK for the month of August 1963.

Weston Observatory

8 October 1963

International Seismological Centre

LOCAL SEISMIC EVENTS

Week 28 September - 4 October 1963 — Preliminary Announcement #18

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting*
28	16 09 48	Blast	46.3°N 71.7°W Bet. Plessisville and E. Broughton Sta. PQ	B M C - -
28	16 19 54	Blast	45.7°N 72.1°W Danville, P.Q.	B M C - -
28	16 23 01	Local Event	45.6°N 73.6°W Montreal, PQ	B M - - -
28	17 26 24	Local Event	46.0°N 65.5°W Forks, N.B.	- M C E -
28	18 11 56	Blast	46.0°N 65.9°W Newcastle Bridge	- M C E -
28	18 19 28	Blast	46.0°N 65.9°W Newcastle Bridge	- M C E -
28	19 46 08	Blast	46.3°N 71.7°W Plessisville, P.Q.	B M - - -
29	15 00 02	Local Event	47.9°N 69.6°W Cacouna, P.Q.	- M C - -
29	15 33 59	Blast	46.0°N 65.9°W Newcastle Bridge	- M C E -
29	17 23 28	Underwater Blast	40.8°N 66.3°W Texas Tower #2	B M C E -
29	17 44 18	Blast	46.0°N 65.9°W Newcastle Bridge	- M C E -

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* W	-	Weston, Mass.	42°23'04.9"N	71°19'19.5"W
M	-	Milo, Maine	45°14'37"N	69°2'25"W
C	-	Caribou, Maine	46°55'57"N	68°7'15"W
E	-	Marshfield, Maine	44044'20"N	67°29'22"W
B	-	Berlin, N.H.	44°35'26"N	71°15'23"W

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
30	18 29 00	Blast	45.95°N 66.05°W Newcastle Bridge	- M O E -
30	19 26 11	Local Event	45.6°N 73.4°W Montreal, P.Q.	B M - - -
30	19 53 12	Blast	46.1°N 71.4°W Black Lake	B M C - -
30	20 02 13	Local Event	45.9°N 72.05°W Warwick, P.Q.	B M - - -
30	20 05 25	Blast	46.3°N 71.6°W Bet. Plessisville and E.Broughton Sta.	B M - - -
Oct. 1	14 26 01	Blast	46.0°N 71.3°W Black Lake	B M C E -
1	16 13 57	Local Event	45.9°N 72.0°W Warwick, P.Q.	B M C - -
1	16 14 07	Blast	45.8°N 71.8°W Asbestos, P.Q.	B M - - -
1	19 15 52	Local Event	45.6°N 68.8°W Millinockett, Me.	B M C E -
1	19 19 53	Blast	46.05°N 71.3°W Black Lake	B M C E -
1	19 54 51	Blast	46.12°N 71.3°W Thetford Mines	B M C - -
2	15 09 40	Local Event	45.4°N 73.4°W Montreal, P.Q.	B M - - -
2	16 06 06	Local Event	45.0°N 76.0°W 65 mi.NW Ottawa	B M - - -
2	16 13 42	Local Event	45.7°N 73.0°W St.Hyacinthe, P.Q.	B M - - -
2	16 32 08	Blast	46.1°N 71.7°W Black Lake	B M C E -
2	16 40 34	Local Event	45.9°N 72.1°W Warwick, P.Q.	B M C - -
2	15			B M - - -

Date	Origin Time (Z)	Type Event	Epicenter	Sta. Reporting
2	18 43 48	Local Event	46.4°N 72.0°W Manseau, P.Q.	B M C - -
2	19 47 02	Local Event	47.8°N 72.2°W Near Lac Edouard PQ	B M C E -
2	20 07 23	Blast	46.3°N 71.1°W E.Broughton Sta.	B M C - -
2	20 07 43	Blast	E.Broughton Sta.	B M - - -
2	20 18 02	Blast	46.2°N 71.2°W Bet.E.Broughton St. and Thetford Mines	B M C - -
2	20 29 35	Local Event	45.3°N 72.8°W Cowansville,P.Q.	B M C - -
2	21 19 31	Local Event	45.5°N 73.6°W Montreal, PQ	B M - - -
3	13			B M - - -
3	14 04 19	Blast	Newcastle Bridge	B M C E -
3	16 25 13	Local Event	45.9°N 72.1°W Warwick, P.Q.	B M - - -
3	16 27 24	Blast	46.2°N 71.3°W Thetford Mines	B M - - -
3	18 29 18	?	43.6°N 69.8°W off Portland Harbor	B M C E -
3	19 09 02	Local Event	45.7°N 73.3°W NE of Montreal P.Q.	B M - - -
3	19 50 19	Blast	46.2°N 71.7°W W. of Thetford Mines	B M - - -
3	19 53 33	Blast	46.2°N 71.7°W Plessisville, P.Q.	B M - E -

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TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK - August 1963

Origin Date	Time (Z)	Location	Phases Received Milo*	Berlin*	Caribou*	Weston*	E.Machias*
2	09 07 18.0	N. Atlantic Oc.	P R	P R	P R	- -	P R
3	03 48 06	Solomon Isl.	PKP	PKP	PKP	-	PKP
3	10 21 36	Mid-Atlantic Oc.	iP eS	iP eS	iP eS	- -	iP eS
3	16 29 35	Andreanof Isl.	iP	iP	iP	-	iP
3	20 26 04	Kermadec Isl.	ePKP	ePKP	ePKP	-	ePKP
4	07 08 47	So. of Java	iPKP	iPKP	-	-	iPKP
5	15 39 07	Macquarie Isl.	ePKP	ePKP	ePKP	-	ePKP
6	13 36 35	N. Atlantic Oc.	P	P	P	-	P
7	04 33 42	Sakhalin Isl. Reg. USSR	P	-	P	-	P
7	07 17 25	Atlantic Oc.	P	-	P	-	P
8	02 14 54	Fox Isl. Aleut.	P	P	P	-	P
12	01 05 34	Near Coast of Central Chile	P	-	P	-	P
13	03 26 45	Kodiak Isl.	P	P	P	-	P
13	04 53 58	Banda Sea	-	-	-	-	ePKP
18	18 43 16	Andreanof Isl.	P	-	P	-	-
21	03 39 22	Caribbean Sea	iP	iP	iP	-	iP
22	03 58 43	Central Alaska	eP	-	-	-	-
22	09 27 09	off Coast of Oregon	-	eP	eP	-	-
22	19 52 25	Solomon Isl.	iPKP	iPKP	iPKP	-	iPKP

International Seismological Centre

Date	Origin Time(Z)	Location	Phases Received: Milo	Berlin	Caribou	Weston	E.Machi
23	13 09 25	Off E.Coast of Kamchatka	-	P	P	-	P
25	06 11 43	Central Turkey	-	eP	-	-	eP
25	12 18 12	Fiji Isl. Region	-	iPkP	-	-	-
29	08 53 48	Sinkiang Prov., China	ePkP	ePkP	ePkP	-	ePkP
29	15 30 31	Off Coast of Peru	iP	iP	iP	-	iP
30	00 16 36	Off S.Coast of Java	ePkP	ePkP	-	-	ePkP

* (Weston, Mass. 42°23'04.9"N 71°19'19.5"W
(Milo, Maine 45°14'37"N 69°2'25"W
(Caribou, Maine 46°55'57"N 68°7"15"W
(E.Machias, Maine (Marshfield) 44°44'20"N 67°29'22"W
(Berlin, N.H. 44°35'26"N 71°15'23"W

International Seismological Centre

LOCAL SEISMIC EVENTS

WEEK 5 - 11 OCTOBER 1963 PRELIMINARY ANNOUNCEMENT NO. 19

DATE	ORIGIN TIME Z	EVENT	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
10/5	14 52 36	BL	46.0	66.0	NEWCASTLE BRIDGE	E C
10/5	18 22 35	BL	46.0	66.0	NEWCASTLE BRIDGE	E C
10/5	18 25 31	BL	46.0	66.0	NEWCASTLE BRIDGE	E C
10/6	16 10 10	BL	46.0	66.0	NEWCASTLE BRIDGE	E C
10/6	17 51 27	BL	46.0	66.0	NEWCASTLE BRIDGE	B M E C
10/6	17 53 09	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/6	18 21 00	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/7	05 04 05	LE	47.8	69.7	ST. ALEXANDRIA P.Q.	B M C
10/7	16 43 51	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/7	18 14 48	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/7	18 16 50	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/7	19 17 54	BL	45.6	73.6	MONTREAL P.Q.	B M
10/7	19 52 30	BL	46.1	71.5	BLACK LAKE	B M E C
10/7	20 05 37	BL	46.4	71.6	LYSTER STATION P.Q.	B M
10/8	16 17 15	BL	45.9	72.0	WARWICK P.Q.	B M
10/8	16 17 21	BL	45.8	70.4	N. OF JACKMAN ME.	B M
E0/8	17 20 02	BL	42.5	69.6	MASSACHUSETTS BAY	B M E
10/8	18 14 15	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/8	18 24 19	BL	46.0	71.4	BLACK LAKE	B M C
10/8	18 29 57	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/8	19 44 39	BL				M
10/8	19 55 12	BL				M
10/8	19 57 57	BL				M
10/8	20 01 54	BL				M
10/8	21 17 51	BL	44.7	74.6	ST. REGIS FALLS	B M
10/9	01 03 13	LE	44.7	70.3	DIXFIELD ME.	B M E C
10/9	16 22 18	BL	45.7	72.0	ASBESTOS P.Q.	B M
10/9	16 22 53	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/9	16 32 35	BL	45.7	72.0	ASBESTOS P.Q.	B M C
10/9	18 19 09	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/9	19 19 41	BL	45.0	70.6	RANSELEY ME.	B M
10/9	19 45 25	BL	46.1	76.4	BLACK LAKE	B M
10/9	19 50 54	BL	46.1	47.4	BLACK LAKE	B M
10/9	19 52 20	BL	46.1	71.4	BLACK LAKE	B M
10/9	19 55 19	LE	47.6	69.0	ST. EUSEBE P.Q.	M C
10/9	20 06 15	BL	45.8	71.9	WARWICK P.Q.	B M C

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DATE	ORIGIN TIME Z	EVENT	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
10/9	20 27 42	BL	45.5	75.6	MONTREAL P.Q.	B M
10/9	21 06 28	BL	45.7	72.1	DANVILLE P.Q.	B M
10/9	21 21 45	BL	45.4	74.7	NR. ALEXANDRIA P.Q.	B M C
10/9	21 32 06	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/9	23 19 30	BL	45.6	72.6	ACTONVALE P.Q.	B M
10/10	12 21 36	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/10	15 55 47	BL	45.6	73.5	MONTREAL P.Q.	B M
10/10	15 57 06	BL	45.3	72.4	EASTMAN P-Q.	B M
10/10	15 58 46	BL	46.0	66.0	NEWCASTLE BRIDGE	B M E C
10/10	16 02 52	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/10	16 31 29	BL	46.1	71.0	NR. BLACK LAKE	B M
10/10	18 13 18	UE	43.3	69.4	BAY OF MAINE	B M E C
10/10	19 45 58	BL	46.2	71.6	W. OF THETFORD MINES	B M
10/10	19 50 23	BL	46.1	71.3	BLACK LAKE	M C
10/10	19 55 24	BL	46.0	72.0	WARWICK P.Q.	B M C
10/10	20 08 19	BL	46.1	71.3	THETFORD MINES	B M C
10/10	20 26 18	BL	46.3	71.5	NR. PLESSISVILLE P.Q.	B M C
10/10	21 30 36	BL	46.0	73.0	NR. YAMASKA P.Q.	B M
10/10	21 34	BL				B M
10/10	21 39 33	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/10	21 39 55	BL	43.9	73.7	SCHROON LAKE N.Y.	B M
10/10	22 28 04	BL				B M
10/10	21 51 05	BL	45.4	72.0	SHERBROOKE P.Q.	B M E C
10/11	13 22 54	BL	46.1	65.9	NEWCASTLE BRIDGE	M E C
10/11	15 26 47	UE	44.4	63.7	TERENCE BAY N.S.	B M E C
10/11	16 24 16	BL	45.8	72.1	NR. DANVILLE P.Q.	B M C
10/11	16 33 01	BL	45.9	71.9	WARWICK P.Q.	B M
10/11	17 49 14	BL	45.9	66.1	NEWCASTLE BRIDGE	M E C
10/11	18 02 53	BL	45.9	66.0	NEWCASTLE BRIDGE	M E C
10/11	19 04 05	BL	46.1	71.4	THETFORD MINES	B M C
10/11	19 50 50	BL	46.0	71.3	BLACK LAKE	B M E C
10/11	20 16 39	BL	45.3	73.6	NR. MONTREAL P.Q.	B M
10/11	20 19 04	BL	46.2	71.1	THETFORD MINES	B M
10/11	21 08 19	BL	45.6	72.9	STE HYACINTHE P.Q.	B M

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*W - WESTON MASS.	42	23 04.9N	71 19 19.5W
M - MILO MAINE	45	14 37N	69 2 25W
C - CARIBOU MAINE	46	55 57N	68 7 15W
E - MARSHFIELD ME.	44	44 20N	67 29 22W
B - BERLIN N.H.	44	35 26N	71 15 23W

BL - BLAST
LQ - LOCAL QUAKE
LE - LOCAL EVENT
UE - UNDERWATER EXPLOSION

Weston

International Seismological Centre

OCT. 1963

LOCAL SEISMIC EVENTS

WEEK 12 - 18 OCTOBER 1963

PRELIMINARY ANNOUNCEMENT NO.

DATE	ORIGIN TIME Z	EVENT	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
10/12	16 17 314	BL	45.6	71.8	WINDSOR PQ	B M C
10/12	17 01 297	BL	46.45	65.75	NEWCASTLE BRIDGE	M E C
10/12	18 15 121	BL	46.1	65.9	NEWCASTLE BRIDGE	M E C
10/13	18 06 025	BL	46.0	65.4	NEWCASTLE BRIDGE	M E C
10/14	12 29 141	LQ	46.55	76.35	NR MONTCERF PQ	B M E C W
10/14	16 16 301	BL	45.77	72.0	ASBESTOS PQ	B M C
10/14	16 16 348	BL	45.77	72.0	ASBESTOS PQ	B M C
10/14	18 28 139	BL	46.2	65.65	NEWCASTLE BRIDGE	M E C
10/15	15 55 479	BL	45.0	73.0	NR LAKE CHAMPLAIN	B M
10/15	16 04 330	BL	45.8	73.0	ST JUDE PQ	B M
10/15	16 25 074	BL	45.3	71.6	ASBESTOS P Q	B M C
10/15	16 23 360	BL				B M
10/15	16 41 387	BL	45.8	74.7	NR LORIGINAL PQ	B M
10/15	16 53 118	BL	45.5	74.8	NR LORIGINAL PQ	B M
10/15	17 06 091	BL	46.2	65.7	NEWCASTLE BRIDGE	M E C
10/15	18 07 469	BL	46.2	65.9	NEWCASTLE BRIDGE	M E C
10/15	19 03 085	BL	46.2	71.6	PLESSISVILLE PQ	B M C
10/15	19 45 415	BL	45.75	71.1	NR ST. GERARD	B M C
10/15	19 49 587	BL	46.2	71.6	NR THETFORD MINES	B M
10/15	19 52 158	BL	45.75	71.1	NR ST GERARD	B M E C
10/15	20 13 595	BL	45.3	72.9	NR FARNHAM PQ	B M
10/15	20 25 274	UE	43.4	70.0	SE OF PORTLAND ME	B M E C
10/15	20 32 187	BL	45.53	69.5	NEWCASTLE BRIDGE	M E C
10/15	21 16 417	BL	45.0	74.65	MASSENA N.Y.	B M
10/15	21 28 203	BL	44.0	73.8	NR SCHROON LAKE N.Y.	B M
10/15	21 34 222	BL	46.35	71.05	E. BROUGHTON STATION	B M
10/15	22 50 164	BL	45.6	72.9	ST. HYACINTHE PQ	B M C
10/16	11 06 383	BL	46.15	65.7	NEWCASTLE BRIDGE	M E C
10/16	15 31 062	LQ	42.40	70.05	NR GLOUCESTER MASS	B M E C W
10/16	15 53 091	BL	45.5	73.5	MONTREAL PQ	B M
10/16	16 09 422	BL	45.4	73.1	MARIEVILLE PQ	B M C
10/16	16 15 063	BL	45.3	72.0	DANVILLE PQ	B M C
10/16	18 21 538	BL	46.3	65.8	NEWCASTLE BRIDGE	M E C

International Seismological Centre

DATE	ORIGIN TIME Z	EVENT	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
10/16	19 43 529	BL	46.1	65.7	NEWCASTLE BRIDGE	M E C
10/16	19 51 24	BL	46.0	71.8	ARTHABASKA PQ	B M C
10/16	19 51 024	BL	46.0	71.8	ARTHABASKA PQ	B M C
10/16	20 06 358	BL	46.1	72.1	VICTORIAVILLE PQ	B M
10/16	21 14 508	BL				B M
10/16	22 10 354	BL	45.0	73.4	CHAMPLAIN N.Y.	B M
10/17	14 32 302	BL	46.1	65.7	NEWCASTLE BRIDGE	M E C
10/17	15 20 464	BL	46.2	65.9	NEWCASTLE BRIDGE	M E C
10/17	16 12 583	BL	46.75	72.0	ASBESTOS PQ	B M C
10/17	16 21 230	BL	45.0	73.8	NR CHATEAUGAY N.Y.	B M
10/17	18 56 031	BL	46.3	71.65	NR PLESSISVILLE PQ	B M
10/17	18 59 169	UE	43.91	69.1	PORT CLYDE ME	B M E C
10/17	19 42 199	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/17	19 51 191	BL	46.7	73.5	MONTREAL PQ	B M
10/17	20 32 424	UE	43.3	69.6	BAY OF MAINE	B M E C
10/17	21 45 439	BL	44.9	73.7	NR MOOERS FORK N.Y.	B M
10/17	22 10 313	BL	45.7	73.75	NR MONTREAL PQ	B M
10/18	03 45 291	BL	45.7	71.5	ST GERARD PQ	B M C
10/18	04 12 115	BL	46.3	71.6	NR PLESSISVILLE PQ	B M
10/18	15 02 302	LQ	40.45	76.77	NR HARRISBURG PA	B M E C W
10/18	15 43 121	LQ	42.55	70.3	NR GLOUCESTER HARBOR	B M E C W
10/18	16 00 463	BL	45.2	73.9	NR HOWICH PQ	B M
10/18	16 13 404	BL	45.3	73.75	NR ST REMI PQ	B M
10/18	16 31 076	BL	45.7	72.0	ASBESTOS PQ	B M E C
10/18	17 36 117	BL	41.15	72.4	LONG ISLAND SOUND	B M E C
10/18	18 20 248	BL	46.2	65.8	NEWCASTLE BRIDGE	M E C
10/18	18 20 375	BL	45.8	65.9	NEWCASTLE BRIDGE	M E C
10/18	18 55 141	BL	46.2	71.7	PLESSISVILLE PQ	B M C
10/18	19 44 542	BL	45.45	71.7	NR COOKSHINE PQ	M E C
10/18	20 04 582	BL	46.2	71.3	THETFORD MINES	B M
10/18	20 14 223	BL	45.2	71.2	NR THETFORD MINES	B M

*W - WESTON MASS.	42 23 04.9N	71 19 19.5W
M - MILO MAINE	45 14 37N	69 2 25W
C - CARIBOU MAINE	46 55 57N	68 7 15W
E - MARSHFIELD ME.	44 44 20N	67 29 22W
B - BERLIN N.H.	44 35 26N	71 15 23W

BL - BLAST
LQ - LOCAL QUAKE
LE - LOCAL EVENT
UE - UNDERWATER EXPLOSION

International Seismological Centre

October 63

LOCAL SEISMIC EVENTS

WEEK 19 - 25 OCTOBER 1963 PRELIMINARY ANNOUNCEMENT NO. 21

DATE	ORIGIN TIME Z	EVENT	LAT.-N	LONG.-W	LOCATION	STATIONS RECEIVING*
10/19	16 26 548	BL	45.8	72.2	NR DANVILLE PQ	B M E C
10/19	18 07 153	BL	45.2	65.7	NEWCASTLE BRIDGE	M E C
10/19	19 50 209	BL	46.2	66.0	NEWCASTLE BRIDGE	M E C
10/19	20 29 240	UE	43.2	69.3	BAY OF MAINE	B M E C
10/20	03 37 356	BL	46.1	71.5	NR THETFORD MINES	B M C
10/20	13 55 556	BL	46.2	66.0	NEWCASTLE BRIDGE	M E C
10/20	15 40 164	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
10/21	16 15 517	BL	45.9	72.0	WARWICK PQ	B M E C
10/21	16 26 196	BL	45.8	64.1	AMHURST NS	B M C
10/21	19 50 592	BL	46.1	71.6	PLESSISVILLE	B M C
10/22	16 17 514	BL	45.7	72.2	DANVILLE PQ	B M E C
10/22	12 33 293	LE	42.2	78.9	RANDOLPH N.Y.	B M C
10/22	13 21 148	BL	46.6	65.9	UPPER BLACKVILLE NB	M E C
10/22	18 25 302		46.3	65.3		M E C
10/22	18 35 418	BL	46.0	71.5	BLACK LAKE	B M E C
10/22	19 50 196	BL	45.9	71.4	DISRAELI PQ	M E C
10/22	20 06 450		46.1	71.6		B M E C
10/23	01 07 014	LE	45.6	67.2	MCADAM NB	B M E C
10/23	01 24 027		43.05	71.2	RAYMOND N.H.	B M E C
10/23	03 43 060	BL	46.0	71.4	BLACK LAKE	B M E C
10/23	16 09 034	LE	45.0	72.8	RICHFORD VT.	B M E C
10/23	16 31 501	LE	44.7	69.15	DIXMONT ME.	B M E C
10/23	18 12 022	BL	46.1	65.9	NEWCASTLE BRIDGE	M E C
10/23	18 41 563	BL	46.1	71.8	ARTHABASKA PQ	B M E C
10/23	19 50 221		46.1	71.6		B M C
10/23	19 50 288	BL	46.0	71.7	ARTHABASKA PQ	B M C
10/23	20 19 059	BL	46.5	71.9	FORTIERVILLE PQ	B M C
10/23	21 12 078	BL	46.1	66.0	NEWCASTLE BRIDGE	M E C
10/23	21 31 273	BL	45.3	73.0	FARNHAM PQ	B M C
10/24	03 45 170	BL	46.2	71.8	PLESSISVILLE PQ	B M C
10/24	09 08 196	BL	46.2	65.7	NEWCASTLE BRIDGE	M E C
10/24	16 17 261	BL	45.6	73.6	MONTREAL PQ	B M E C
10/24	16 27 058	BL	45.7	71.9	ASBESTOS PQ	B M E C
10/24	16 50 492	BL	46.3	65.7	NEWCASTLE BRIDGE	M E C

DATE	ORIGIN TIME Z	EVENT	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
10/24	18 28 232	BL	46.1	65.9	NEWCASTLE BRIDGE	M E C
10/24	19 42 016	BL	46.2	71.8	PLESSISVILLE PQ	B M C
10/24	19 51 551		46.0	71.6		B M E C
10/24	19 54 120		46.0	71.6		B M C
10/24	19 57 541	UE	43.7	70.0	PORTLAND ME	B M E C
10/24	20 05 257	LQ	42.65	70.05	MASS. BAY	B M C
10/24	21 43 166	BL	45.4	72.7	GRANBY PQ	B M C
10/25	18 25 484	BL	46.2	72.2	ASTON JUNCTION PQ	B M E C
10/25	18 42 263		46.25	66.2		M E C
10/25	19 50 301	BL	45.95	71.35	BLACK LAKE	B M C
10/25	19 50 483	BL	46.03	71.3	BLACK LAKE	B M C
10/25	20 03 304	BL	46.25	71.8	PLESSISVILLE PQ	B M C
10/25	21 05 208	LE	44.68	69.6	N. OF WATERVILLE	B M E
10/25	21 13 417	LE	43.8	74.25	BLUE MT. LAKE N.Y.	B M C
10/25	20 22 584		46.1	71.6		B M C
10/25	20 41 167		46.42	65.4		M E C
10/25	21 48 286	BL	45.4	72.85	ST. CESAIRE PQ	B M C
10/21	16 24 264	BL	45.77	72.13	DANVILLE PQ	B M C ***

*W - WESTON MASS.	42 23 04.9N	71 19 19.5W
M - MILO MAINE	45 14 37N	69 2 25W
C - CARIBOU MAINE	46 55 57N	68 7 15W
E - MARSHFIELD ME.	44 44 20N	67 29 22W
B - BERLIN N.H.	44 35 26N	71 15 23W

BL - BLAST
LQ - LOCAL QUAKE
LE - LOCAL EVENT
UE - UNDERWATER EXPLOSION

International Seismological Centre

Oct-Nov 63

LOCAL SEISMIC EVENTS

WEEK 26 OCTOBER - 1 NOVEMBER PRELIMINARY ANNOUNCEMENT NO. 22

DATE	ORIGIN TIME Z	EVENT	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
10/26	16 19 535	BL	45.75	72.2	NW OF RICHMOND PQ	B M E C
10/26	16 20 022	BL	45.7	72.2	NW OF RICHMOND PQ	B M E C
10/26	18 19 475	BL	46.35	65.6		B M E C
10/26	18 22 592	BL	46.3	65.65		M E C
10/26	18 53 583	BL	45.6	73.4	MONTREAL PQ	B M C
10/26	19 44 219	BL	46.1	71.6	W OF THETFORD MINES	B M E C
10/27	03 49 128	BL	45.65	72.55	ACTONVALE PQ	B M E C
10/27	17 57 365	BL	46.45	65.75		B M E C
10/28	13 34 157	BL	46.3	65.6	NEAR CHIPMAN NB	M E C
10/28	15 01 399	UE	44.0	62.0	80 MI ESE HALIFAX NS	B M E C
10/28	16 55 070	BL	47.15	72.0	N OF VICTORIAVILLE PQ	B M C
10/28	17 16 167	BL	46.1	65.7	CUMBERLAND BAY NB	M E C
10/28	18 33 569	LE	44.2	75.6	ANTWERP NY	B M C
10/28	18 49 129	BL	46.25	66.0	N OF NEWCASTLE BRIDGE	M E C
10/28	19 32 530	BL	46.4	65.3	HARCOURT NB	M E C
10/28	19 34 271	LE	49.5	64.3	NR ANTICOSTI ISL	M E C
10/28	19 48 278	LE	45.8	75.5	NOTRE DAME DE LA SALETTE PQ	B M E C
10/28	20 29 319	BL	46.3	65.6	NE OF CHIPMAN NB	M E C
10/28	20 46 455	BL	46.1	71.9	VICTORIAVILLE PQ	B M E C
10/28	22 57 220	BL	46.3	65.35		M E C
10/30	17 25 295	BL	47.2	73.5		B M C
10/30	19 31 225	BL	46.15	71.9	ARTHABASKA PQ	B M C
10/30	20 36 290	BL	46.5	65.25	HARCOURT NB	M E C
10/30	20 52 345	BL	46.13	71.6	ENE OF ARTHABASKA	B M C
10/30	22 36 579	LQ	42.7	70.8	IPSWICH MASS	B M E C W
10/30	22 37 046	BL	44.0	73.2	MIDDLEBURY VT	B M E C
10/31	17 12 387	BL	46.0	71.85	ARTHABASKA PQ	B M C
10/31	18 40 130	BL	46.08	66.15	NEWCASTLE BRIDGE	M E C
10/31	18 43 051	LE	46.45	65.2	HARCOURT NB	M E C

International Seismological Centre

*W - WESTON MASS.	42	23 04.9N	71 19 19.5W
M - MILO MAINE	45	14 37N	69 2 25W
C - CARIBOU MAINE	46	55 57N	68 7 15W
E - MARSHFIELD ME.	44	44 20N	67 29 22W
B - BERLIN N.H.	44	35 26N	71 15 23W

BL - BLAST
LQ - LOCAL QUAKE
LE - LOCAL EVENT
UE - UNDERWATER EXPLOSION

International Seismological Centre

TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK - OCTOBER 1963

DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MACHI
10/1/63	02 43 27.1	COLUMBIA	P	P	P		P
10/3/63	05 32 18.4	NR EAST COAST OF TAIWAN				R	
10/3/63	23 24 34.7	KYUSHU JAPAN				P	
						S	
						Q	
						R	
10/6/63	17 15 33.9	CENTRAL CHILE	P	P	P		P
10/7/63	03 59 54.1	NR WEST COAST OF NICARAGUA				R	
10/7/63	12 53		P	P	P		P
10/9/63	03 21 11.1	BERING SEA	P	P	P		P
10/9/63	10 17 07.8	OFF COAST JALISCO MEXICO	P	P	P	R	P
10/12/6302	46 48.1	BAFFIN ISLAND	EP I	EP I	EP		
10/12/63	11 26 57.9	KURILE ISL (KI)	P	P	P	P	P
						S	
						PP	
						PPP	
10/13/63	15 59 52.2	KI	P	P	P		P
10/13/63	16 28 58.2	KI	P	P	P		P
10/13/63	16 45 18.8	NR COAST OF MICHOACON MEXICO	P	P	P		P
10/13/63	18 13 44.6	NR COAST MICHOACAN	P	P	P		P
10/13/63	21 55 00.8	KI	P	P	P		P
10/13/63	22 02 58.1	KI	P	P	P		P
10/14/63	23 52 22.8	KI	P	P	P		
10/14/63	00 03 04.1	KI	P	P			
10/14/63	04 06 01.7	KI	P	P	P		P
10/14/63	04 11 14.0	KI	P	P	P		P
10/14/63	04 13 03.1	KI	P	P	P		P
10/14/63	05 24 12.3	KI	P	P	P		P
10/14/63	06 28		P	P	P		P

International Seismological Centre

DATE	ORIGIN TIME(Z)		LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MAC
10/14/63	06	26 11.7	FOX ISL ALEUT	P	P	P		P
10/14/63	06	29 01.5	KI	I P	P			
10/14/63	07	54 33.9	KI	P	P			
10/14/63	13	21 45.2	KI	P	P	P	P	P
					PAP	PAP	PAP	PAP
							S	
							SS	
							Q	
							R	
10/15/63	20	41 30.2	KI	P	P	P		P
10/15/63	21	44 58.0	CERAM	I PKP	I PKP			
10/16/63	05	15 36.1	KI	P	P			P
10/16/63	10	30 55.2	KI	P	P	P		P
10/16/63	15	43 00.8	TADZHIK SSR		I P	I P		
10/16/63	21	30 52.7	KI		P			P
10/17/63	23	24 34.4	KI	P	P	P		P
10/18/63	23	54 56.9	KI	P	P	P		P
10/18/63	04	01 21.7	KI	P	P	P		P
10/18/63	08	53 33.9	KI	P	P	P		P
10/18/63	17	55 00.2	KI	P	P	P		P
10/18/63	21	22 52.7	KI	P	P	P		P
10/19/63	02	18 37.9	KI	P	P	P		P
							P	
							S	
							S	
							Q	
10/19/63	03	34 19.6	KI	P	P	P	P	P
							S	
							S	
10/19/63	03	47 07.7	KI	P	P	P		P
10/19/63	12	12			I P			I P
10/19/63	23	11 40.9	KI	P	P	P		P
10/20/63	01	05		I	I	I		I

International Seismological Centre

DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MA
10/20/63	00 53 07.2	KI	P	P	P		P
10/20/63	02 09 29.4	KI	P	P	P		P
10/20/63	04 31 37.1	KI	P	P	P		P
10/20/63	04 40 09.1	KI	P	P			
10/20/63	04 46 57.9	KI	P	P	P		P
10/20/63	06 10 25.0	KI	P	P	P		P
			I	I	I		I
10/20/63	06 38 51.0	KI	I	I			
10/20/63	08 26 12.3	KI	P	P	P		P
10/20/63	11 52 20.7	KI	P	P	P	S	P
			PAP	PAP	PAP	PAP	PAP
						SS	
						G	
						R	
10/20/63	09 10 43.9	KI	P	P	P	P	P
			PCP	PCP	PCP	PAP	PCP
						S	
						SS	
						SSS	
10/20/63	12 59 58.6	S. ALGERIA	P	P	P		P
10/20/63	13 21 14.1	KI	P	P	P		P
10/20/63	16 00 15.1	KI	P	P	P		
10/20/63	17 41 27.3	KI	P	P	P		P
10/20/63	17 58 58.7	KI	P	P	P		P
10/20/63	00 22 53.3	NR COAST CHILE		P	P		
10/21/63	15 50		P	P	P		P
10/21/63	23 29 20.7	KI	P	P	P		P
10/22/63	03 17	PROBABLY KI	I	I	I		I
10/23/63	04 24	PROBABLY KI	I	I	I		I
10/23/63	09 47 08.1	E OF HONSHU JAPAN	P	P	P		P
10/24/63	07 26 23.9	OFF COAST OF SUMATRA	P	P	P		P
10/24/63	20 18	PROBABLY KI	P	P	P		P
			I		I	I	I
10/25/63	06 02 06.6	NEAR ISL ALEUT	P	P	P		P

International Seismological Centre

DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MACHI
10/25/63	10 17 57.1	KI	P	P	P		P
10/26/63	03 56	PROBABLY KI	P	P	P	P	P
			I	I	I	S	I
10/26/63	05 02	PROBABLY KI	P	P	P		P
			I	I	I		I
10/26/63	06 00	PROBABLY KI	P	P	P		P
			I	I	I		I
			I	I	I		I
10/26/63	11 21 47.6	KI	P	P	P		P
			I	I	I		I
10/26/63	11 32	PROBABLY KI	P	P	P		P
			I	I	I		I
10/26/63	19 05 58.1	KI	P	P	P		P
10/26/63	22 41 29.8	NEW BRITAIN	P	P	P		P
10/27/63	20 05 38.1	KI	P	P	P		P
			I	I	I		I
10/28/63	12 03 19.8	OFF EAST COAST KAMCHATKA	P	P	P		P
10/28/63	20 49		I	I	I		I
10/28/63	22 00		I	I	I		I

*W - WESTON MASS.	42 23 04.9N	71 19 19.5W
M - MILO MAINE	45 14 37N	69 2 25W
B - BERLIN N.H.	44 35 26N	71 15 23W
C - CARIBOU MAINE	46 55 57N	68 7 15W
E - MARSHFIELD ME.	44 44 20N	67 29 22W

International Seismological Centre

November 63

LOCAL SEISMIC EVENTS

WEEK 2 - 8 NOVEMBER

PRELIMINARY ANNOUNCEMENT NO. 23

DATE	ORIGIN TIME Z	EVENT	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
11/2	16 41 388	BL	45.4	73.1	ST. CESAIRE PQ	B M C
11/3	19 03 374	BL	46.25	65.6	NE OF CHIPMAN NB	M E C
11/4	17 22 066	BL	45.8	72.1	DANVILLE PQ	B M C
11/4	18 50 412	BL	44.8	75.55	W OF CARDINAL PQ	B M C
11/4	19 08 327	BL	46.35	65.5	NE OF CHIPMAN NB	M E C
11/4	20 51 204	BL	46.1	71.65	16 MI. W OF THETFORD M2N	
11/4	20 51 204	BL	46.1	71.65	W OF THETFORD MINES	B M C
11/4	20 52 497	BL	46.17	71.55	ESE OF PLESSISVILLE	B M C
11/4	20 53 162	BL	46.17	71.73	PLESSISVILLE PQ	B M C
11/4	21 07 090	BL	45.92	72.4	CARMEL P Q	B M C
11/5	09 46 107	LQ	42.2	70.3	NO OF CAPE COD MASS	B M C
11/5	15 41 114	BL	46.30	65.70	CHIPMAN NB	M C
11/5	17 12 396	BL	45.75	72.5		B M C
11/5	18 57 358	BL	46.1	65.9	CHIPMAN NB	M E C
11/5	19 02 220	BL	46.3	66.0	NEWCASTLE BR	M E C
11/5	19 12 197	BL	46.3	65.5		M E C
11/5	19 13 322	BL	46.2	65.8	CHIPMAN NB	M E C
11/5	20 22 572	BL	45.8	71.8	ASBESTOS PQ	B M C
11/5	20 51 323	BL	46.14	71.63	PLESSISVILLE P Q	M C
11/5	21 28 037	LE	45.85	69.57	MOOSEHEAD LAKE ME	B M E
11/5	22 15 375	LE	46.0	74.3	STE AGATHE P Q	B M C
11/5	22 22 216	LE	45.25	72.7	COWANSVILLE P Q	B M C
11/6	17 06 586	LE	45.9	73.8		B M C
11/6	17 29 433	BL	45.9	72.1	WARWICK P Q	B M E C
11/6	19 08 469	BL	46.3	66.0	NEWCASTLE BR	M E C
11/6	19 09 540	BL	46.3	65.7	CHIPMAN N B	M E C
11/6	19 12 324	BL	46.30	65.7	CHIPMAN N B	M E C
11/6	19 25 277	BL	46.1	66.0	NEWCASTLE BR	M E C
11/6	20 41 290	LE	47.5	74.0	KEMPT LAKE PQ	B M C
11/6	20 53 047	BL	45.95	71.25	LAKE ST FRANCIS PQ	B M E C
11/6	21 07 254	BL	46.05	71.3	BLACK LAKE P Q	B M C
11/7	15 53 059	BL	46.3	65.8	CHIPMAN NB	M E C
11/7	16 45 015	LE	44.3	75.4	GOUVERNEUR N Y	B M C

International Seismological Centre

DATE	ORIGIN TIME Z	EVENT	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
11/7	17 26 301	BL	46.1	71.9	ARTHABASKA P Q	B M C
11/7	17 50 530	BL	46.3	65.7	CHIPMAN N B	M E C
11/7	19 16 333	BL	46.2	65.9	CHIPMAN N B	M E C
11/7	19 20 401	BL	46.3	65.7	CHIPMAN N B	M E C
11/7	20 24 018	BL	46.2	71.6	PLESSISVILLE PQ	B M E C
11/7	20 51 132	BL	46.0	71.6		B M C
11/7	21 19 253	LE	45.8	73.7	ST LIN P Q	B M C
11/7	22 30 205	BL	46.0	71.7		B M C
11/8	17 14 279	BL	45.8	72.3		B M C
11/8	19 07 413	BL	46.3	65.8	CHIPMAN N B	M E C
11/8	19 24 223	BL	46.3	65.8	CHIPMAN N B	M E C
11/8	19 28 304	BL	46.0	71.7		B M C
11/8	20 52 371	BL	46.05	71.8	ARTHABASKA P Q	B M C
11/8	22 37 092	BL	45.6	72.9	ST HYACINTHE P Q	B M C

*W - WESTON MASS. 42 23 04.9N 71 19 19.5W
M - MILO MAINE 45 14 37N 69 2 25W
C - CARIBOU MAINE 46 55 57N 68 7 15W
E - MARSHFIELD ME. 44 44 20N 67 29 22W
B - BERLIN N.H. 44 35 26N 71 15 23W

BL - BLAST
LQ - LOCAL QUAKE
LE - LOCAL EVENT
UE - UNDERWATER EXPLOSION

International Seismological Centre

LOCAL SEISMIC EVENTS

WEEK 9 - 15 NOVEMBER 1963 PRELIMINARY ANNOUNCEMENT NO. 24

DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
11/9	12 46 034	BL	46.0	71.5	BLACK LAKE PQ	B M C
11/9	17 31 188	LE	43.35	68.05	SE OF PENOBSCOT BAY	M E C W
11/9	18 43	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
11/9	19 12	BL	46.0	66.0	NEWCASTLE BRIDGE	M E C
11/10	16 21 267	BL	47.1	70.8	ST. JOACHIM PQ	B M C
11/11	17 24 482	BL	45.85	72.3	DRUMMONDVILLE EAST	B M E C
11/11	19 06 460	BL	46.35	65.6	NE OF CHIPMAN NB	M E C
11/11	19 22 436	BL	46.35	65.85	N OF CHIPMAN NS	M E C
11/11	20 11 201	BL	46.4	65.55	NE OF CHIPMAN	M E C
11/11	20 46 130	BL	46.1	71.65	W OF THETFORD MINES	B M C
11/11	20 53 335	BL	46.3	71.65	LYSTER STA. PQ	B M C
11/11	21 07 596	BL	46.4	71.8	VILLEROY PQ	B M C
11/12	17 23 301	BL	45.8	75.9	LOW PQ	B M C
11/12	17 28 261	BL	46.4	65.65	NE OF CHIPMAN	M E C
11/12	19 10 586	BL	46.35	65.6	NE OF CHIPMAN	M E C
11/12	19 31 492	BL	46.4	65.65	NE OF CHIPMAN NB	M E C
11/12	19 51 245	BL	46.2	71.35	PLESSISVILLE PQ	B M E C
11/12	20 33 471	BL	46.4	65.65	NE OF CHIPMAN NB	
11/12	20 49 516	BL	46.3	71.6	PLESSISVILLE PQ	B M C
11/12	20 51 321	BL	45.95	71.55	HAM NORD PQ	B M C
11/13	13 59 271	BL	46.35	66.0	N OF NEWCASTKE BRIDGE	M E C
11/13	17 08 452	LE	45.05	74.0	N OF CHATEAUGAY NY	B M C
11/13	17 11 205	BL	45.55	73.0	ST PIE PQ	B M E C
11/13	17 24 028	BL	45.8	72.1	DANVILLE PQ	B M E C
11/13	19 11 022	BL	46.3	65.7	NE OF CHIPMAN	M E C
11/13	19 20 473	BL	46.3	65.75	NE OF CHIPMAN	M E C
11/13	21 06 486	BL	45.95	72.25	CARMEL PQ	B M C
11/13	21 11 041	BL	46.1	71.5	THETFORD MINES	B M C
11/14	17 14 078	BL	45.85	72.5	DRUMMONDVILLE EAST	B M E C
11/14	19 08 462	BL	46.35	65.5	NE OF CHIPMAN NB	M E C
11/14	19 13 550	BL	46.45	65.2	HARCOURT NB	M E C
11/14	19 59 521	BL	46.3	65.65	NE OF CHIPMAN NB	M E C
11/14	20 42 158	BL	45.9	71.35	DISRAELI PQ	B M C
11/14	20 51 152	BL	46.1	71.55	W OF THETFORD MINES	B M C

International Seismological Centre

Notice to All Recipients

In addition to Preliminary Announcement #25, there is attached the fourth report covering TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK for the month of September 1963.

Weston Observatory
Weston, Massachusetts

27 November 1963

International Seismological Centre

LOCAL SEISMIC EVENTS

WEEK 16 - 22 NOVEMBER 1963 PRELIMINARY ANNOUNCEMENT NO. 25

DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
11/16	12 00 102	BL	45.6	73.2	ST. HILAIRE PQ	B M C
11/16	13 34 285	BL	46.4	65.7	N OF CHIPMAN NB	M E C
11/16	15 54 471	BL	46.0	72.5	CARMEL PQ	B M C
11/16	17 20 563	BL	45.8	71.95	ASBESTOS PQ	B M C
11/16	18 47 19	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/16	19 20 38	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/16	20 47 538	BL	46.1	71.7	W OF THETFORD MINES	B M E C
11/16	20 49 552	BL	46.1	71.7	W OF THETFORD MINES	B M E C
11/18	19 06 26	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/18	19 10 28	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/18	19 15 12	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/18	20 36 11	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/19	17 15 200	BL	46.05	73.05	SOREL PQ	B E C
11/19	17 15 241	BL	45.84	72.25	NW OF DANVILLE	B E C
11/19	17 29 090	BL	45.7	72.3	W OF RICHMOND	B E C
11/19	19 07 43	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/19	19 22 56	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/19	20 28 16	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/19	20 51 408	BL	46.1	72.1	VICTORIAVILLE	B M C
11/19	20 52 261	BL	45.95	71.3	SE OF BLACK LAKE	B M E C
11/19	20 53 091	BL	46.2	71.7	PLESSISVILLE	B M C
11/20	17 11 587	BL	45.95	72.1	NW OF WARWICK	B M C
11/20	17 12 055	BL	45.95	72.1	NW OF WARWICK	B M C
11/20	17 12 157	BL	45.75	71.8	ASBESTOS PQ	B M C
11/20	19 01 18	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/20	19 13 08	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/20	20 12 253	BL	46.05	71.9	ARTHABASKA PQ	B M E C
11/20	20 14 57	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/20	20 51 541	BL	45.95	71.35	S OF BLACK LAKE	B M E C
11/20	20 52 031	BL	45.85	71.75	NE OF ASBESTOS	B M E C
11/21	13 34 55	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/21	17 08 319	LE	44.85	73.55	CHAZY NY	B M E C
11/21	17 17 420	BL	45.75	71.9	ASBESTOS PQ	B M C

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DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
11/21	19 07 53	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/21	20 06 416	BL	46.1	71.5	THETFORD MINES	B M C
11/21	20 44 069	BL	46.1	71.3	THETFORD MINES	B M E C
11/21	20 52 419	BL	46.0	71.4	BLACK LAKE PQ	B M C
11/22	17 08 227	BL	45.5	73.4	MONTREAL PQ	B M C
11/22	17 17 067	BL	45.7	71.95	ASBESTOS PQ	B M E C
11/22	17 24 305	BL	45.85	71.95	ASBESTOS PQ	B M C
11/22	18 15 077	BL	45.4	72.7	GRANBY PQ	B M E C
11/22	19 13 41	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/22	19 17 21	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/22	19 51 379	BL	46.0	71.3	BLACK LAKE PQ	B M E C
11/22	20 03 35	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/22	20 51 527	BL	46.1	71.3	THETFORD MINES	B M E C
11/22	20 58 529	BL	46.0	71.3	BLACK LAKE PQ	B M E C

*W - WESTON MASS.	42 23 04.9N	71 19 19.5W
M - MILO MAINE	45 14 37N	69 2 25W
C - CARIBOU MAINE	46 55 57N	68 7 15W
E - MARSHFIELD ME.	44 44 20N	67 29 22W
B - BERLIN N.H.	44 35 26N	71 15 23W

**BL - BLAST
LQ - LOCAL QUAKE
LE - LOCAL EVENT
UE - UNDERWATER EXPLOSION

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TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK - SEPTEMBER 1963

DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MACHIA
9/2/63	14 10 44.7	GULF OF CALIF			P S		P S
9/3/63	05 29 39.5	KURILE ISLANDS	P	P	P		P
9/3/63	06 12 08.9	ANDREANOF ISLANDS		P	P		P
9/3/63	18 37 42.6	COLOMBIA	P	P	P		P
9/4/63	35 06 47.0	NR COAST ALGERIA	P	P	P	P	P
9/4/63	13 32 12.3	NR E COAST BAFFIN ISLAND	P	P	P	EP IP IS	P
9/4/63	16 22		P	P	P		
9/4/63	19 10		E	E	E		E
9/4/63	21 20 18.5	BAFFIN ISL	Q	Q	Q	ER	Q
9/4/63	21 41 00.6	NR E COAST BAFFIN ISLAND	PCP	PCP	PCP	ER	PCP
9/6/63	01 46 13.3	NR E COAST BAFFIN ISLAND	P	P	P	ER	P
9/6/63	10 16 38.9	KERMADEC ISLANDS	PKP	PKP	PKP		PKP
9/6/63	20 31 46.1	VANCOUVER ISL REG			P		
9/7/63	03 16		I		I		
9/7/63	12 44 01.1	KAMCHATKA	P	P	P		P
9/8/63	09 06 16.0	SE OF EASTER ISL	P	P	P		

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DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MACHI
9/8/63	19 50 29.8	FIJI ISL REG	PP PAP	PP PAP	PP PAP		PP
9/9/63	02 45 45.5	NEW BRITAIN	PKP	PKP	PKP		PKP
9/10/63	17 01 07.3	ALASKA PENINSULA REGION	P	P	P		P
9/10/63	21 58			I	E		
9/12/63	08 18 57.9	CYPRUS	P	P	P		
9/13/63	17 00 00	NUCLEAR EVENT SHOAL	P	P	P	P S	P
9/13/63	23 02 07.2	ANDREANOF ISLANDS		P	P		P
9/14/63	03 52 16.9	KERMADEC ISLANDS	PKP	PKP	PKP		
9/15/63	00 46 54.1	SANTA CRUZ ISL	PKP PP	PKP PP	PKP	PKP PP S	PKP
9/17/63	05 54 33.7	CENTRAL PERU	P S	P S	P S		P
9/17/63	19 20 08.2	SANTA CRUZ ISL	PKP	PKP	PKP	PKP PP SS	PKP
9/18/63	16 58 12.5	TURKEY	P	P	P	P S	P
9/18/63	22 31 23	BAFFIN ISL REG	Q	Q	Q		
9/20/63	03 03 32.9	SVALBARD REG	P	P	P		P
9/20/63	22 11 32.2	PERU-BOLIVIA BORDER	P	P	P	P	P
9/24/63	08 30 01.6	LARIOJA PROV. ARGENTINA	P	P	P		

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ORIGIN DATE	TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MACHIA
9/24/63	16 30 16.0	NR COAST PERU	P S	P S	P S	P S	P
9/26/63	05 28 07.3	ANDREANOF ISL	P	P	P	P	P
9/28/63	06 58 12.7	KERMADEC ISL	PKP	PKP	PKP		PKP
9/29/63	02 55 05	BALLENY ISL REG	PKP	PKP	PKP		PKP
9/29/63	22 16 38.6	IONIAN SEA	P	P	P		P
9/29/63	22 44 02.9	GUATEMALA	P	P	P		P

*M	- MILO MAINE	45 14 37N	69 2 25W
B	- BERLIN N.H.	44 35 26N	71 15 23W
C	CARIBOU MAINE	46 55 57N	68 7 15W
W	- WESTON MASS.	42 23 04.9N	71 19 19.5W
E	- MARSHFIELD ME.	44 44 20N	67 29 22W

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The New England Seismic Network erected and maintained by Weston Observatory has four remote unmanned stations in New England, and one laboratory station at Weston. Each of these stations is equipped with three short period portable Benioff seismometers having periods of 1.0 second. The seismometer signals are amplified through a differential operational amplifier, giving a maximum systems response at 0.8 second. The seismic detection sites are located as follows:

W - Weston, Mass.	42°23'04.9"N	71°19'19.5"W
M - Milo, Maine	45°14'37"N	69°2'25"W
C - Caribou, Maine	46°55'57"N	68°7'15"W
E - Marshfield, Maine	44°44'20"N	67°29'22"W
B - Berlin, N.H.	44°35'26"N	71°15'23"W

Determinations are listed for all seismic frequency arrivals of local origin detected from the network. It is hoped that by including even the obscure signals, other workers may be aided in their identification of events. Information on any of the phases and the corresponding arrival times may be obtained on request from Weston Observatory.

International Seismological Centre

LOCAL SEISMIC EVENTS

WEEK 23 - 29 NOVEMBER 1963

PRELIMINARY ANNOUNCEMENT NO. 26

DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
11/23	17 31 560	BL	45.75	72.15	DANVILLE PQ	B M E C
11/23	19 07 072	BL	49.2	63.0	CHICOTHE ANTICOSTI IS.	B M E C
11/23	20 02 34	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/25	18 00 57	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/25	19 05 10	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/25	19 05 21	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/26	04 38 453	BL	46.0	71.3	BLACK LAKE PQ	B M E C
11/26	17 14 358	BL	45.7	71.95	ASBESTOS PQ	B M E C
11/26	17 24 550	BL	45.7	71.95	ASBESTOS PQ	B M E C
11/26	18 32 00	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/26	18 35 045	BL	45.5	73.4	MONTREAL PQ AREA	B M C
11/26	19 06 19	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/26	19 32 134	BL	46.0	71.3	BLACK LAKE AREA	B M E C
11/26	20 49 232	BL	46.0	71.3	BLACK LAKE PQ	B M E C
11/26	20 53 35	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
11/26	20 54 542	BL	45.7	71.95	ASBESTOS PQ	B M E C
11/26	23 04 59	BL	45.5	73.4	MONTREAL PQ AREA	B M C
11/27	15 42 45	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/27	17 17 47	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
11/27	19 26 38	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/27	19 45 11	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
11/27	20 49 06	BL	46.0	71.3	BLACK LAKE PQ AREA	B M C
11/27	20 52 33	BL	46.0	71.3	BLACK LAKE PQ AREA	B M C
11/27	20 52 54	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
11/28	14 55 00	BL	45.5	73.4	MONTREAL PQ AREA	B M C
11/28	17 06 43	BL	45.5	73.4	MONTREAL PQ AREA	B M C
11/28	17 15 22	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
11/28	17 15 30	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
11/28	17 58 12	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/28	19 27 45	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/28	20 22 01	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/28	20 44 30	BL	46.0	71.3	BLACK LAKE PQ AREA	B M C
11/28	20 51 39	BL	46.0	71.3	BLACK LAKE PQ AREA	B M C

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DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
11/29	17 17 23	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
11/29	17 28 35	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
11/29	18 52 02	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/29	19 05 24	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
11/29	19 38 35	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
11/29	20 10 57	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
11/29	20 52 31	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
11/29	20 58 20	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
11/29	21 19 57	BL	46.1	71.3	THETFORD MINES AREA	B M E C

*W - WESTON MASS.	42 23 04.9N	71 19 19.5W
M - MILO MAINE	45 14 37N	69 2 25W
C - CARIBOU MAINE	46 55 57N	68 7 15W
E - MARSHFIELD ME.	44 44 20N	67 29 22W
B - BERLIN N.H.	44 35 26N	71 15 23W

**BL - BLAST
LQ - LOCAL QUAKE
LE - LOCAL EVENT
UE - UNDERWATER EXPLOSION

International Seismological Centre

LOCAL SEISMIC EVENTS

WEEK 30 NOVEMBER - 6 DECEMBER 1963 PRELIMINARY ANNOUNCEMENT NO. 27

DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
11/30	12 43 37	BL	46.0	71.3	BLACK LAKE AREA	B M E C
11/30	17 31 13	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
12/1	17 44 37	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/2	15 20 22	LE	42.9	69.2	75 MILES SE OF PORTLAND HARBOR ME.	B M E C
12/2	15 23 13	LE	42.9	69.2	75 MILES SE OF PORTLAND HARBOR ME.	B M E C
12/2	15 26 14	LE	42.9	69.2	75 MILES SE OF PORTLAND HARBOR ME.	B M E C
12/2	15 34 25	LE	42.9	69.2	75 MILES SE OF PORTLAND HARBOR ME.	B M E C
12/2	15 37 36	LE	42.9	69.2	75 MILES SE OF PORTLAND HARBOR ME.	B M E C
12/2	16 56 351	LE	44.6	75.6	MORRISTOWN N.H.	B M C
12/2	17 05 37	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/2	17 11 33	BL	45.7	71.9	ASBESTOS PQ AREA	B M E C
12/2	19 11 13	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/2	20 10 04	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/2	20 22 14	BL	45.5	73.4	MONTREAL PQ AREA	B M C
12/2	20 33 39	BL	45.7	72.0	ASBESTOS PQ AREA	B M C
12/2	20 41 29	BL	46.0	71.3	BLACK LAKE AREA	B M C
12/2	22 02 03	BL	46.0	71.3	BLACK LAKE AREA	B M C
12/3	17 17 01	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
12/3	29 00 01	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/3	19 47 27	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/3	19 52 13	BL	46.0	71.3	BLACK LAKE AREA	B M E C
12/3	20 51 36	BL	46.0	71.3	BLACK LAKE AREA	B M C
12/3	21 08 19	BL	46.0	71.3	BLACK LAKE AREA	B M E C
12/4	17 20 56	BL	45.5	73.4	MONTREAL PQ AREA	B M C
12/4	17 27 11	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
12/4	17 36 48	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/4	19 01 43	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/4	19 07 01	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/4	19 15 56	BL	46	66	NEWCASTLE BRIDGE AREA	M E C

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DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
12/4	20 09 31	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/4	20 34 27	BL	46.0	71.3	BLACK LAKE AREA	B M E C
12/4	20 48 57	BL	45.5	73.4	MONTREAL PQ AREA	B M C
12/4	20 50 40	BL	46.0	71.3	BLACK LAKE AREA	B M C
12/4	20 51 57	BL	46.0	71.3	BLACK LAKE AREA	B M E C
12/4	21 06 36	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/4	21 32 378	LQ	43.5	71.25	N OF ALTON N.H.	B M E C W
12/5	16 48 38	BL	45.5	73.4	MONTREAL PQ AREA	B M C
12/5	17 16 52	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/5	17 23 28	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/5	19 24 47	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/5	19 43 25	BL	46.0	71.3	BLACK LAKE AREA	B M E C
12/5	19 59 34	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/5	20 29 25	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/5	20 45 27	BL	46.0	71.3	BLACK LAKE AREA	B M C
12/5	20 52 53	BL	46.0	71.3	BLACK LAKE AREA	B M E C
12/6	04 41 23	BL	46.0	71.3	BLACK LAKE AREA	B M E C
12/6	16 38 23	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	16 41 45	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	16 45 20	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	16 52 27	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	16 54 27	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	16 58 13	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	17 00 42	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	17 03 26	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	17 06 00	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	17 08 50	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/6	17 12 18	BL	45.5	73.5	MONTREAL PQ AREA	B M C
12/6	17 14 35	BL	45.7	71.95	ASBESTOS PQ AREA	B M C
12/6	17 37 58	BL	45.5	73.5	MONTREAL PQ AREA	B M C
12/6	19 07 23	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/6	19 10 50	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/6	19 19 59	BL	45.5	73.5	MONTREAL PQ AREA	B M C
12/6	20 51 321	BL	46.1	71.3	THETFORD MINES AREA	B M E C
12/6	21 07 25	BL	46.0	71.3	BLCK LAKE AREA	B M E C
12/6	21 17 05	BL	46.0	71.3	BLACK LAKE AREA	B M C

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*W - WESTON MASS.	42	23 04.9N	71 19 19.5W
M - MILO MAINE	45	14 37N	69 2 25W
C - CARIBOU MAINE	46	55 57N	68 7 15W
E - MARSHFIELD ME.	44	44 20N	67 29 22W
B - BERLIN N.H.	44	35 26N	71 15 23W

**BL - BLAST
LE - LOCAL EVENT
LQ - LOCAL QUAKE
UE - UNDERWATER EXPLOSION

International Seismological Centre

LOCAL SEISMIC EVENTS

WEEK 7 - 13 DECEMBER 1963 PRELIMINARY ANNOUNCEMENT NO. 2

DATE	ORIGIN TIME Z	EVENT***	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING
12/7	16 46 13	BL	46	66	NEWCASTLE BRIDGE AREA	B M E C
12/7	16 59 12	BL	45.5	73.5	MONTREAL PQ AREA	B M C
12/7	17 24 06	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/7	17 33 13	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/7	17 33 19	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/7	17 29 50	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/7	18 47 42	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/7	19 16 523	BL	45.65	72.9	STE HYACINTHE PQ	B M C
12/7	19 26 04	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/7	19 54 17	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/9	10 30 542	BL	45.8	63.9	OXFORD NS	M E C
12/9	13 11 056	BL	45.2	73.0	FARNHAM PQ	B M E C
12/9	16 47 16	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/9	17 11 28	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/9	18 13 12	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/9	20 01 53	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/9	20 22 25	BL	46.0	71.3	BLACK LAKE PQ AREA	B M C
12/9	21 08 47	BL	46.0	71.3	BLACK LAKE PQ AREA	B M C
12/10	20 12 44	BL	46.1	71.3	THETFORD MINES AREA	B M C
12/10	16 10 08	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/10	17 06 30	BL	45.5	73.5	MONTREAL PQ AREA	B M C
12/10	17 22 57	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/10	20 52 38	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/10	19 57 50	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/10	19 11 47	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/10	19 32 39	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/10	20 40 13	BL	46.0	71.3	BLACK LAKE PQ	B M E C
12/11	15 36 00	UE	43	69	SE OF PORTLAND ME.	B M E C
12/11	15 43 40	UE	43	69	SE OF PORTLAND ME.	B M E C
12/11	16 15 56	UE	43	69	SE OF PORTLAND ME.	B M E C
12/11	16 24 53	UE	43	69	SE OF PORTLAND ME.	B M E C
12/11	16 28 34	UE	43	69	SE OF PORTLAND ME.	B M E C
12/11	16 32 17	UE	43	69	SE OF PORTLAND ME.	B M E C
12/11	16 35 59	UE	43	69	SE OF PORTLAND ME.	B M E C

International Seismological Centre

DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
12/11	17 25 59	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/11	17 36 53	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/11	17 37 00	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/11	17 43 55	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/11	20 03 24	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/11	20 17 13	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/11	20 20 58	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/11	20 43 32	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/11	20 53 52	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/11	20 58 18	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/12	16 22 48	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/12	17 24 02	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/12	18 56 36	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/12	20 50 25	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/12	20 53 41	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/13	17 33 44	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/13	18 10 34	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/13	18 26 49	UE	43.1	69.2	SE OF PORTLAND ME.	M E C
12/13	18 30 41	UE	43.1	69.2	SE OF PORTLAND ME.	M E C
12/13	18 33 03	UE	43.1	69.2	SE OF PORTLAND ME.	M E C
12/13	19 31 28	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/13	20 23 54	BL	46	66	NEWCASTLE BRIDGE AREA	M E C

*W - WESTON MASS.	42 23 04.9N	71 19 19.5W
M - MILO MAINE	45 14 37N	69 2 25W
C - CARIBOU MAINE	46 55 57N	68 7 15W
E - MARSHFIELD ME.	44 44 20N	67 29 22W
B - BERLIN N.H.	44 35 26N	71 15 23W

**BL - BLAST
LE - LOCAL EVENT
LQ - LOCAL QUAKE
UE - UNDERWATER EXPLOSION

International Seismological Centre

Notice To All Recipients

In addition to Preliminary Announcement #29, there is attached the fourth report covering TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK for the month of October 1963.

Weston Observatory
Weston, Massachusetts

23 December 1963

International Seismological Centre

LOCAL SEISMIC EVENTS

WEEK 14 - 20 DECEMBER 1963 PRELIMINARY ANNOUNCEMENT NO. 2

DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
12/14	14 37 47	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/14	17 13 20	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/14	17 13 27	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/14	18 36 52	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/14	19 30 39	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/14	20 00 398	BL	45.5	72.85	ST. PIE PQ	B M C
12/14	20 10 42	BL			MONTREAL PQ AREA	B M C
12/14	20 42 12	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/15	03 47 429	BL	44.8	62.7	TANGIER N.S.	B M E C
12/16	16 19 20	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/16	16 22 07	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/16	16 24 24	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/16	16 28 00	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/16	16 54 55	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/16	16 57 54	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/16	17 18 54	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/16	17 18 17	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/16	18 28 22	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/16	19 35 30	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/16	20 45 00	BL	46.0	71.3	BLACK LAKE PQ	B M E C
12/16	21 07 47	BL	46.0	71.3	BLACK LAKE PQ	B M E C
12/16	21 10 19	BL	45.5	73.5	MONTREAL PQ AREA	B M C
12/17	00 29 52	BL	46.0	71.3	BLACK LAKE PQ AREA	B M C
12/17	17 15 34	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/17	17 49 54	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/17	17 51 56	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/17	17 54 19	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/17	17 46 56	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/17	17 58 52	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/17	18 01 26	UE	43.1	69.3	SE OF PORTLAND ME.	B M E C
12/17	19 17 09	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/17	20 19 47	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/17	20 51 56	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/17	20 52 56	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C

DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING
12/17	23 53 15	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/18	16 14 41	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/18	16 47 47	BL	45.5	73.5	MONTREAL PQ AREA	B M
12/18	17 18 18	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/18	19 07 19	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/18	20 09 50	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/18	20 52 45	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/18	20 52 54	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/18	22 08 41	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/19	16 02 18	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/19	16 15 28	BL	45.5	73.5	MONTREAL PQ AREA	B M C
12/19	17 25 52	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/19	19 11 58	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/19	20 01 53	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/19	20 44 19	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/19	20 50 07	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/19	20 51 15	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/19	22 58 05	BL	45.5	73.5	MONTREAL PQ AREA	B M C
12/20	17 12 18	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/20	18 05 24	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/20	19 17 42	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/20	20 20 10	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/20	20 48 13	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/20	20 51 00	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/20	21 27 34	BL	45.5	73.5	MONTREAL PQ AREA	B M C

**W - WESTON MASS.	42 23 04.9N	71 19 19.5W
M - MILO MAINE	45 14 37N	69 2 25W
C - CARIBOU MAINE	46 55 57N	68 7 15W
E - MARSHFIELD ME.	44 44 20N	67 29 22W
B - BERLIN N.H.	44 35 26N	71 15 23W

**BL - BLAST
LE - LOCAL EVENT
LQ - LOCAL QUAKE
UE - UNDERWATER EXPLOSION

International Seismological Centre

TELESEISMS DETECTED BY THE NEW ENGLAND NETWORK - OCTOBER 1963

DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MACH
10/1/63	02 43 27.1	COLUMBIA	P	P	P		P
10/3/63	05 32 18.4	NR EAST COAST OF TAIWAN					
10/3/63	23 24 34.7	KYUSHU JAPAN				R P S Q R	
10/6/63	17 15 33.9	CENTRAL CHILE	P	P	P		P
10/7/63	03 59 54.1	NR WEST COAST OF NICARAGUA				R	
10/7/63	12 53		P	P	P		P
10/9/63	03 21 11.1	BERING SEA	P	P	P		P
10/9/63	10 17 07.6	OFF COAST JALISCO MEXICO	P	P	P	R	P
10/12/63	02 46 48.1	BAFFIN ISLAND	EP I	EP I	EP		
10/12/63	11 26 57.9	KURILE ISL (KI)	P	P	P	P S PP PPP	P
10/13/63	15 59 52.2	KI	P	P	P		P
10/13/63	16 28 58.2	KI	P	P	P		P
10/13/63	16 45 18.8	NR COAST OF MICHOACON MEXICO	P	P	P		P
10/13/63	18 13 44.6	NR COAST MICHOACAN	P	P	P		P
10/13/63	21 55 00.8	KI	P	P	P		P
10/13/63	22 02 58.1	KI	P	P	P		P
10/14/63	23 52 22.8	KI	P	P	P		
10/14/63	00 03 04.1	KI	P	P			
10/14/63	04 06 01.7	KI	P	P	P		P
10/14/63	04 11 14.0	KI	P	P	P		P
10/14/63	04 13 03.1	KI	P	P	P		P
10/14/63	05 24 12.3	KI	P	P	P		P
10/14/63	06 28		P	P	P		P

International Seismological Centre

DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MACH
10/14/63	06 26 11.7	FOX ISL ALEUT	P	P	P		P
			I				
10/14/63	06 29 01.5	KI	P	P			
10/14/63	07 54 33.9	KI	P	P			
10/14/63	13 21 45.2	KI	P	P	P	P	P
				PAP	PAP	PAP	PAP
						S	
						SS	
						Q	
						R	
10/15/63	20 41 30.2	KI	P	P	P		P
			I	I			
10/15/63	21 44 58.0	CERAM	PKP	PKP			
10/16/63	05 15 36.1	KI	P	P			P
10/16/63	10 30 55.2	KI	P	P	P		P
				I	I		
10/16/63	15 43 00.8	TADZHIK SSR		P	P		
10/16/63	21 30 52.7	KI		P			P
10/17/63	23 24 34.4	KI	P	P	P		P
10/18/63	23 54 56.9	KI	P	P	P		P
10/18/63	04 01 21.7	KI	P	P	P		P
10/18/63	08 53 33.9	KI	P	P	P		P
10/18/63	17 55 00.2	KI	P	P	P		P
10/18/63	21 22 52.7	KI	P	P	P		P
10/19/63	02 18 37.9	KI	P	P	P	P	P
						S	
						SS	
						Q	
10/19/63	03 34 19.6	KI	P	P	P	P	P
						S	
						SS	
10/19/63	03 47 07.7	KI	P	P	P		P
10/19/63	12 12			I			I
10/19/63	23 11 40.9	KI	P	P	P		P
10/20/63	01 05		I	I	I		I
			I	I	I		I

International Seismological Centre

DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MAC
10/20/63	00 53 07.2	KI	P	P	P		P
10/20/63	02 09 29.4	KI	P	P	P		P
10/20/63	04 31 37.1	KI	P	P	P		P
10/20/63	04 40 09.1	KI	P	P			
10/20/63	04 46 57.9	KI	P	P	P		P
10/20/63	06 10 25.0	KI	P	P	P		P
			I	I	I		I
10/20/63	06 38 51.0	KI	I	I			
10/20/63	08 26 12.3	KI	P	P	P		P
10/20/63	11 52 20.7	KI	P	P	P	S	P
			PAP	PAP	PAP	PAP	PAP
						SS	
						G	
						R	
10/20/63	09 10 43.9	KI	P	P	P	P	P
			PCP	PCP	PCP	PAP	PCP
						S	
						SS	
						SSS	
10/20/63	12 59 58.6	S. ALGERIA	P	P	P		P
10/20/63	13 21 14.1	KI	P	P	P		P
10/20/63	16 00 15.1	KI	P	P	P		
10/20/63	17 41 27.3	KI	P	P	P		P
10/20/63	17 58 58.7	KI	P	P	P		P
10/20/63	00 22 53.3	NR COAST CHILE		P	P		
10/21/63	15 50		P	P	P		P
10/21/63	23 29 20.7	KI	P	P	P		P
10/22/63	03 17	PROBABLY KI	I	I	I		I
10/23/63	04 24	PROBABLY KI	I	I	I		I
10/23/63	09 47 08.1	E OF HONSHU JAPAN	P	P	P		P
10/24/63	07 26 23.9	OFF COAST OF SUMATRA	P	P	P		P
10/24/63	20 18	PROBABLY KI	P	P	P		P
			I		I	I	I
10/25/63	06 02 06.6	NEAR ISL ALEUT	P	P	P		P

International Seismological Centre

DATE	ORIGIN TIME(Z)	LOCATION	PHASES RECEIVED MILO*	BERLIN*	CARIBOU*	WESTON*	E.MACH
10/25/63	10 17 57.1	KI	P	P	P		P
10/26/63	03 56	PROBABLY KI	P	P	P	S	P
			I	I	I		I
10/26/63	05 02	PROBABLY KI	P	P	P		P
			I	I	I		I
10/26/63	06 00	PROBABLY KI	P	P	P		P
			I	I	I		I
			I	I	I		I
10/26/63	11 21 47.6	KI	P	P	P		P
			I	I	I		I
10/26/63	11 32	PROBABLY KI	P	P	P		P
			I	I	I		I
10/26/63	19 05 58.1	KI	P	P	P		P
10/26/63	22 41 29.8	NEW BRITAIN	P	P	P		P
10/27/63	20 05 38.1	KI	P	P	P		P
			I	I	I		I
10/28/63	12 03 19.8	OFF EAST COAST KAMCHATKA	P	P	P		P
10/28/63	20 49		I	I	I		I
10/28/63	22 00		I	I	I		I

*W	WESTON MASS.	42 23 04.9N	71 19 19.3W
M	MILO MAINE	45 14 37N	69 2 25W
B	BERLIN N.H.	44 35 26N	71 15 23W
C	CARIBOU MAINE	46 55 57N	68 7 15W
E	MARSHFIELD ME.	44 44 20N	67 29 22W

International Seismological Centre

LOCAL SEISMIC EVENTS

WEEK 21 - 27 DECEMBER 1963 — PRELIMINARY ANNOUNCEMENT NO. 30

DATE	ORIGIN TIME Z	EVENT**	LAT.N	LONG.W	LOCATION	STATIONS RECEIVING*
12/21	17 13 46	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/21	19 44 10	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/21	20 49 28	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/21	17 13 42	BL	45.7	71.95	ASBESTOS PQ	B M E C
12/23	15 02 50	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/23	17 15 00	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/23	17 24 47	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/23	20 44 20	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/23	23 10 06	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/24	17 10 00	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/24	17 16 35	BL	45.7	71.95	ASBESTOS PQ AREA	B M E C
12/24	17 24 41	BL	46	66	NEWCASTLE BRIDGE AREA	B M E C
12/24	18 38 41	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/24	18 43 39	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/24	18 47 43	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/24	20 28 11	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/26	19 03 03	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/26	19 47 51	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/26	19 57 10	UE	42.26	70.02	16 MI NNE OF PROVINCETOWN MASS.	B M E C W
12/27	16 00 46	BL	46.0	71.3	BLACK LAKE PQ AREA	B M E C
12/27	19 05 51	BL	46	66	NEWCASTLE BRIDGE AREA	M E C
12/27	19 20 53	BL			LAKE ST. JOHN PQ	C
12/27	21 02 47	BL	45.5	73.5	MONTREAL PQ	B M C
12/27	21 48 59	BL	45.5	73.5	MONTREAL PQ AREA	B M C

*W - WESTON MASS	42 23 04.9N	71 19 19.5W
M - MILO MAINE	45 14 37N	69 2 25W
C - CARIBOU MAINE	46 55 57N	68 7 15W
E - MARSHFIELD ME.	44 44 20N	67 29 22W
B - BERLIN N.H.	44 35 26N	71 15 23W

**BL - BLAST
LE LOCAL EVENT
LQ - LOCAL QUAKE
UE UNDERWATER EXPLOSION