

SEABROOK UPDATED FSAR

APPENDIX 2E

HISTORICAL EARTHQUAKES IN THE SITE VICINITY

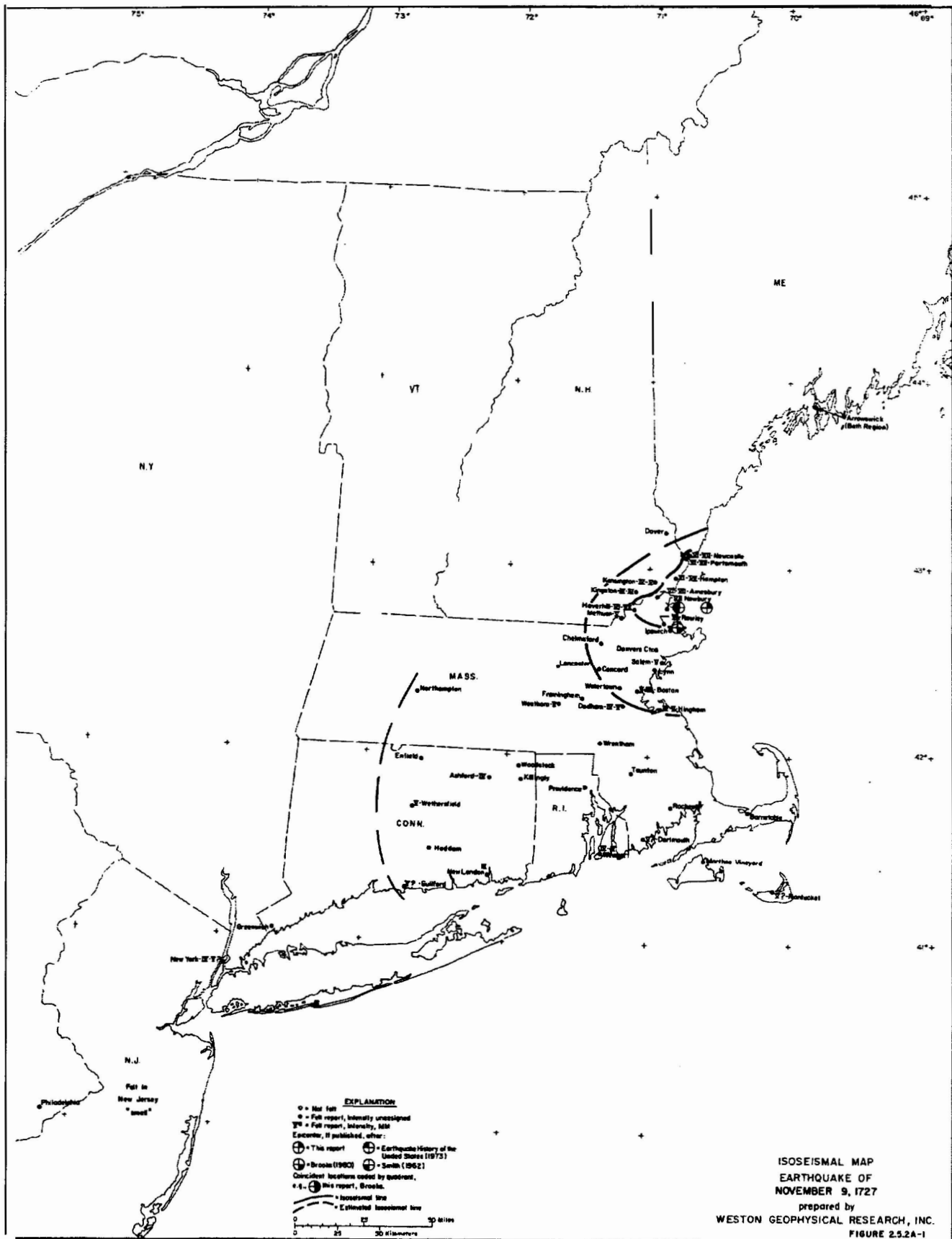
The information contained in this appendix was not revised, but has been extracted from the original FSAR and is provided for historical information.

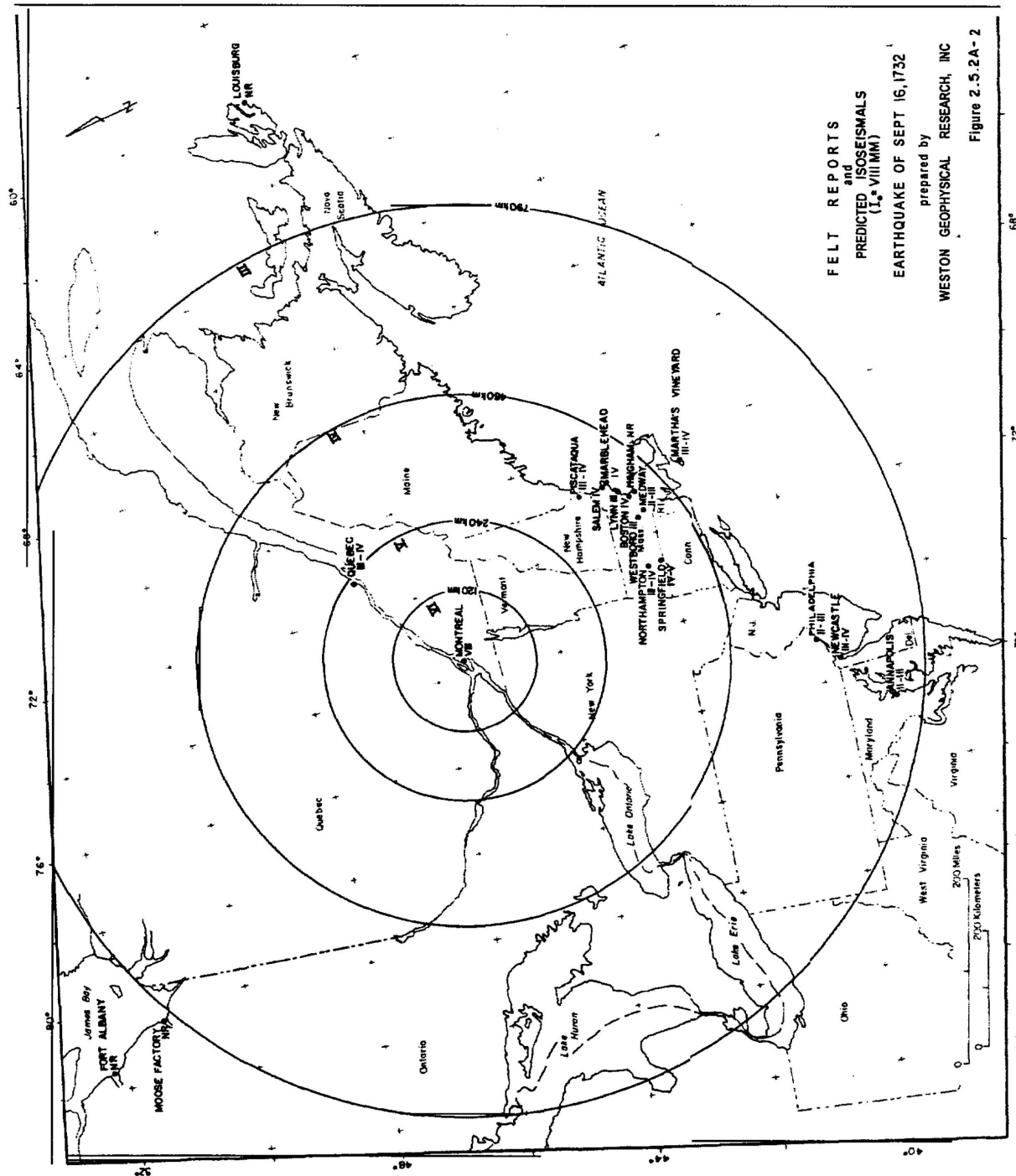
APPENDIX **2.5.2A**

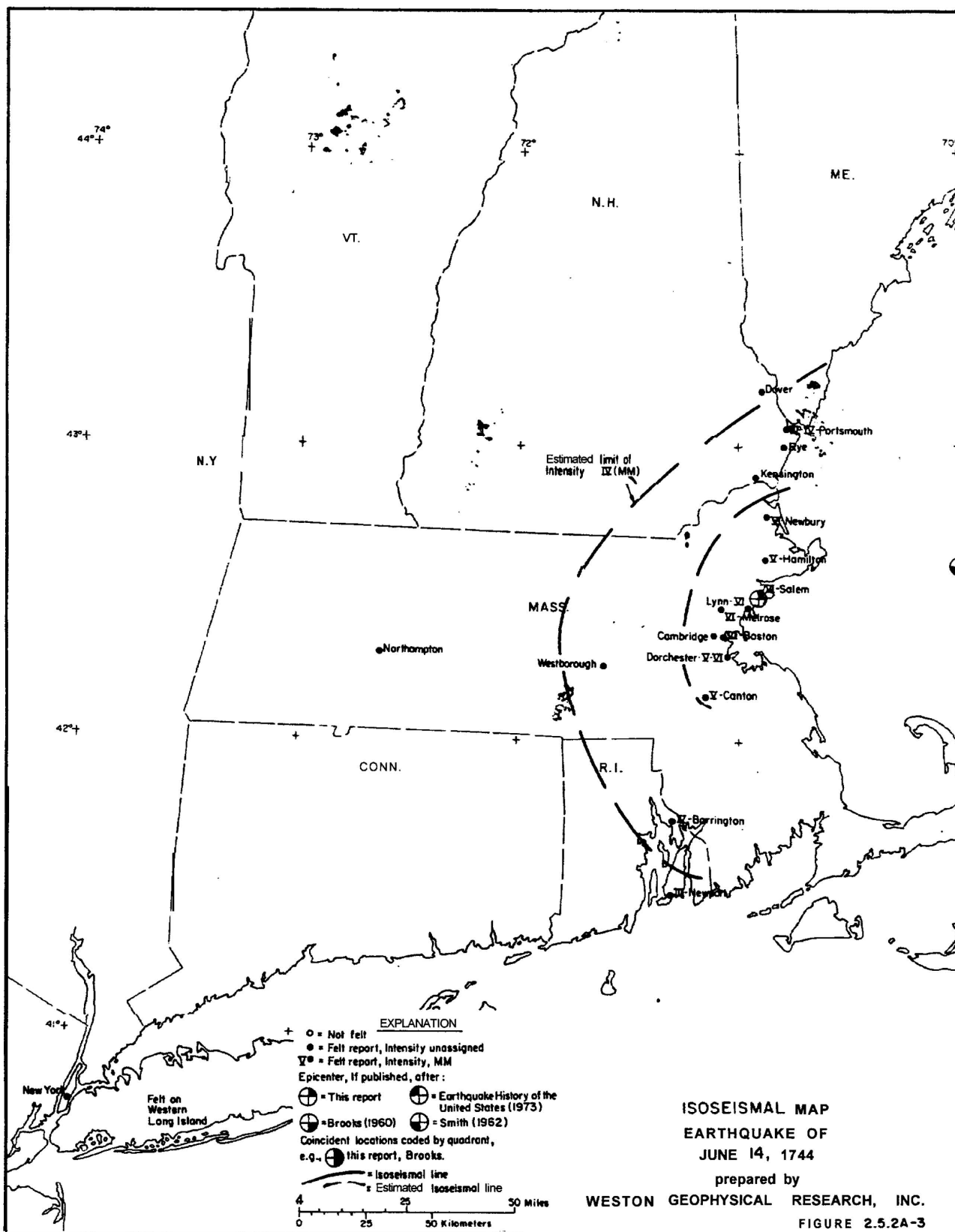
PART I

LIST OF ISOSEISMAL MAPS

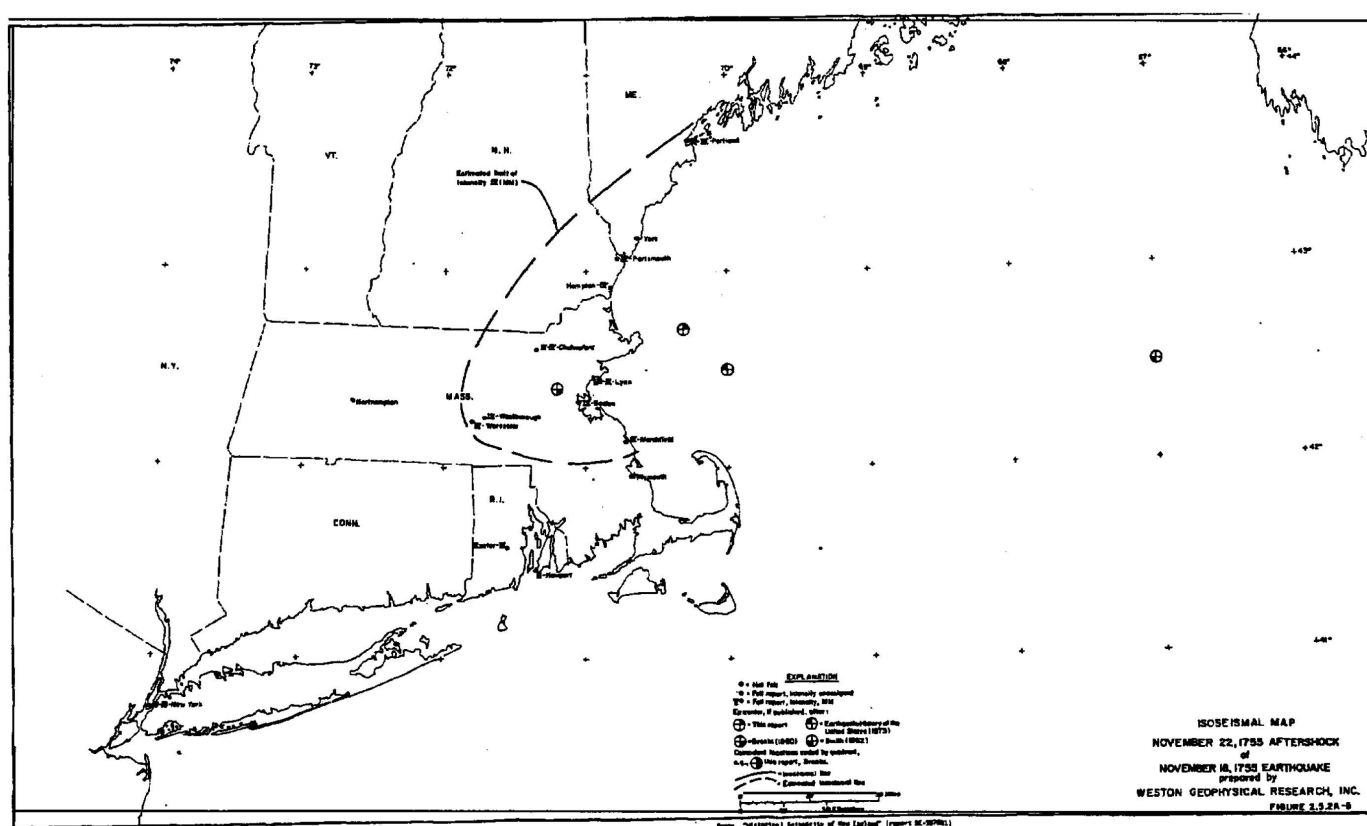
<u>DATE</u>	<u>FIGURE NO.</u>
1727 NOV 09	2.5.2A-1
1732 SEP 16	2.5.2A-2
1744 JUN 14	2.5.2A-3
1755 NOV 18	2.5.2A-4
1755 NOV 22	2.5.2A-5
1761 MAR 12	2.5.2A-6
1791 MAY 06	2.5.2A-7
1810 NOV 09	2.5.2A-8
1811 DEC 16	2.5.2A-9
1814 NOV 28	2.5.2A-10
1817 OCT 05	2.5.2A-11
1823 JUL 23	2.5.2A-12
1846 AUG 25	2.5.2A-13
1947 AUG 08	2.5.2A-14
1852 NOV 27	2.5.2A-15
1854 DEC 11	2.5.2A-16
1857 DEC 23	2.5.2A-17
1872 NOV 18	2.5.2A-18
1880 MAY 12	2.5.2A-19
1882 DEC 19	2.5.2A-20
1884 AUG 10	2.5.2A-21
1884 NOV 23	2.5.2A-22
1886 SEP 01	2.5.2A-23
1891 MAY 01	2.5.2A-24
1905 JUL 15	2.5.2A-25
1905 AUG 30	2.5.2A-26
1907 OCT 16	2.5.2A-27
1918 AUG 21	2.5.2A-28
1925 JAN 07	2.5.2A-29
1925 MAR 01	2.5.2A-30
1925 OCT 09	2.5.2A-31
1926 MAR 18	2.5.2A-32
1927 MAR 09	2.5.2A-33
1929 AUG 12	2.5.2A-34
1929 NOV 18	2.5.2A-35
1931 APR 20	2.5.2A-36
1940 DEC 20/24	2.5.2A-37
1944 SEP 05	2.5.2A-38
1957 APR 26	2.5.2A-39
1963 OCT 16	2.5.2A-40
1973 JUN 15	2.5.2A-41a and b

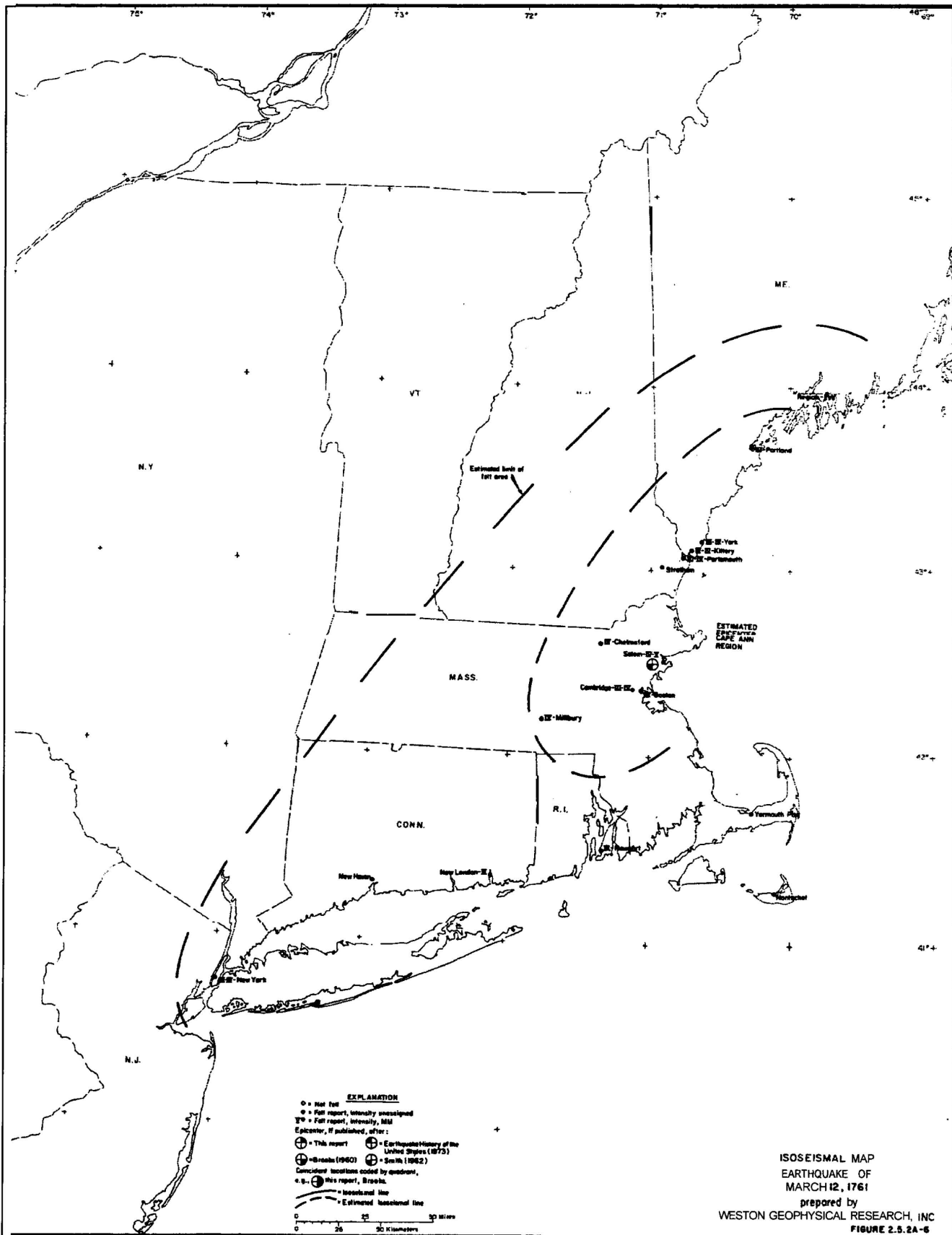




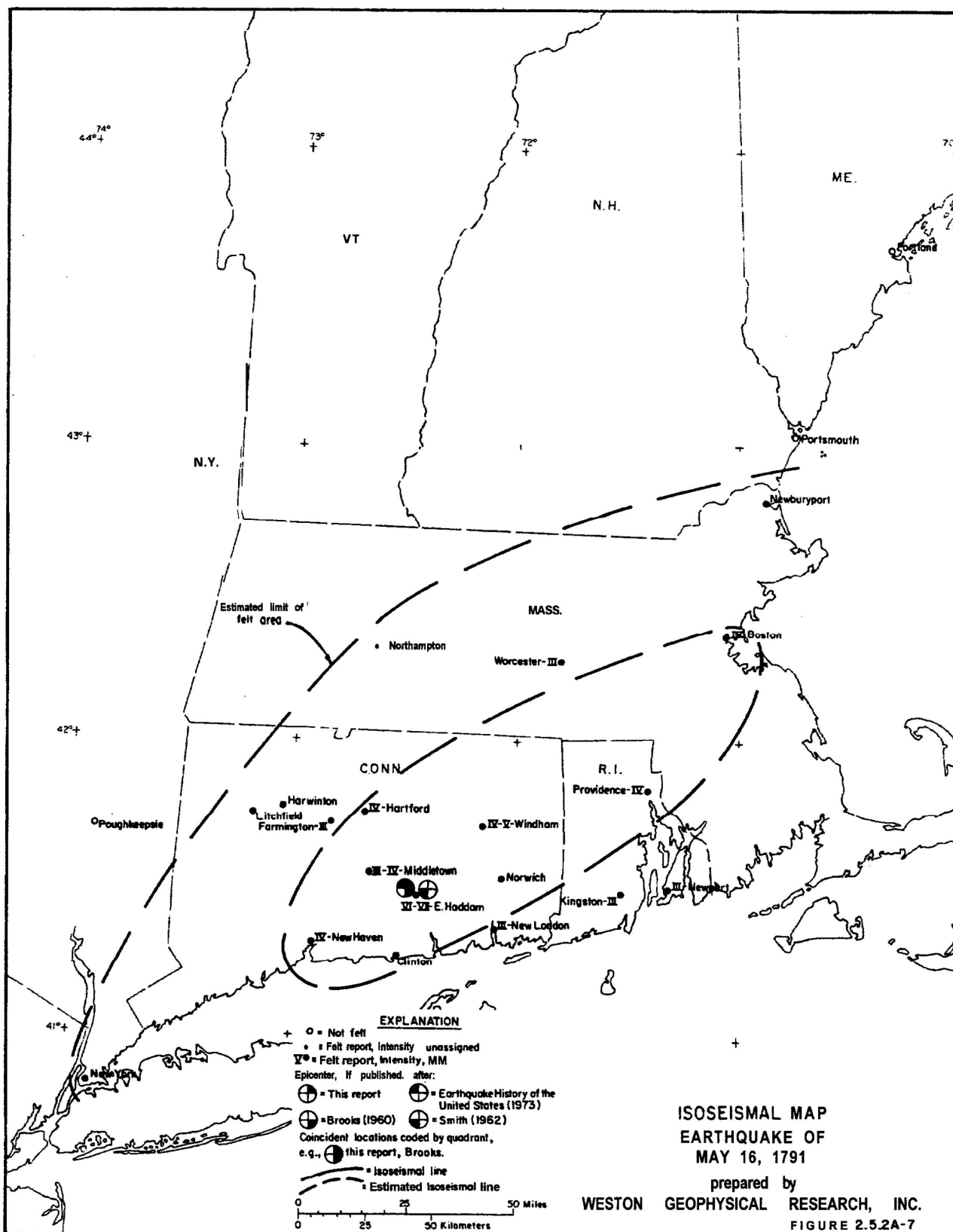


FROM: "Historical Seismicity of New England" (report BE-SG7601)
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Docket No. 50-471

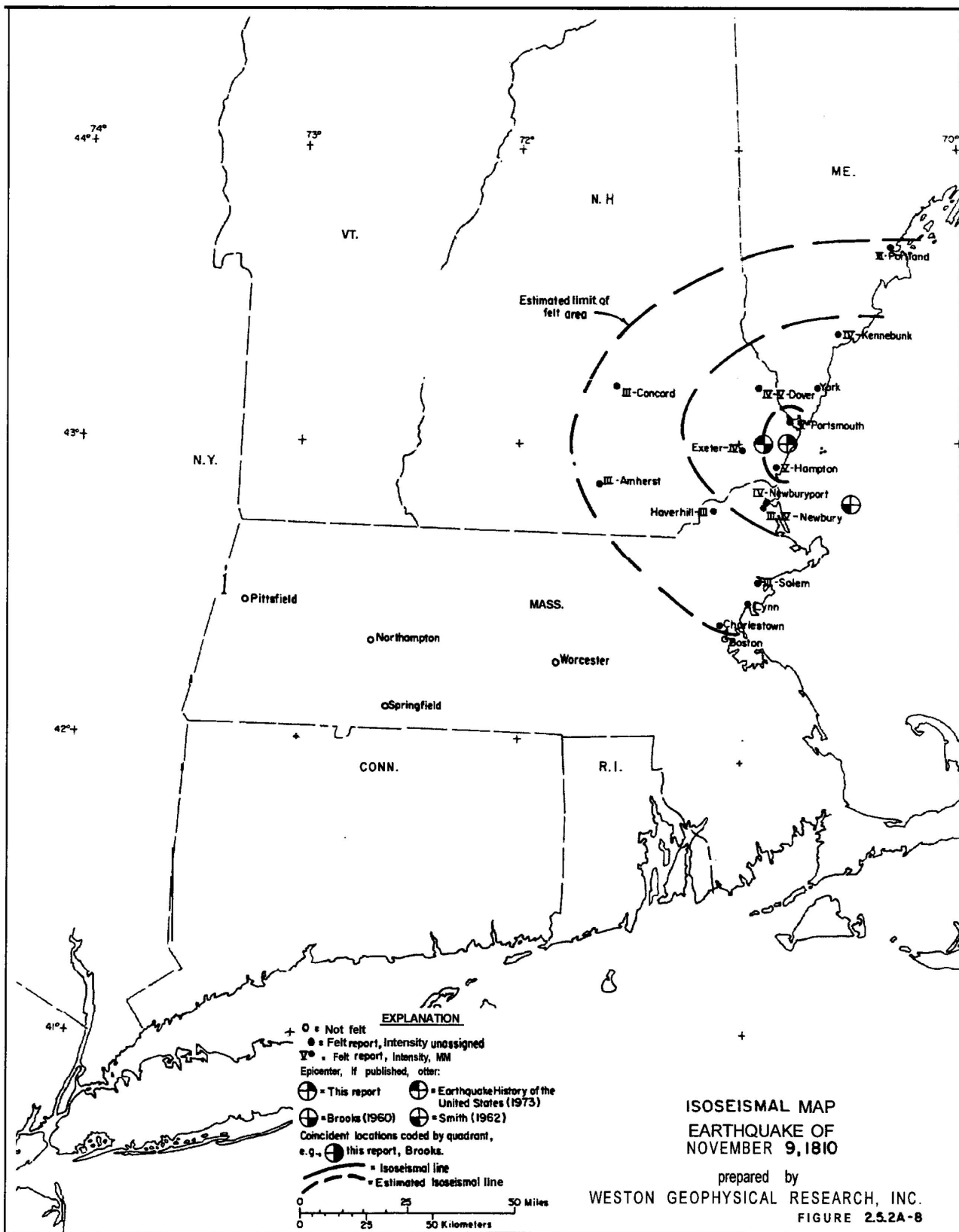




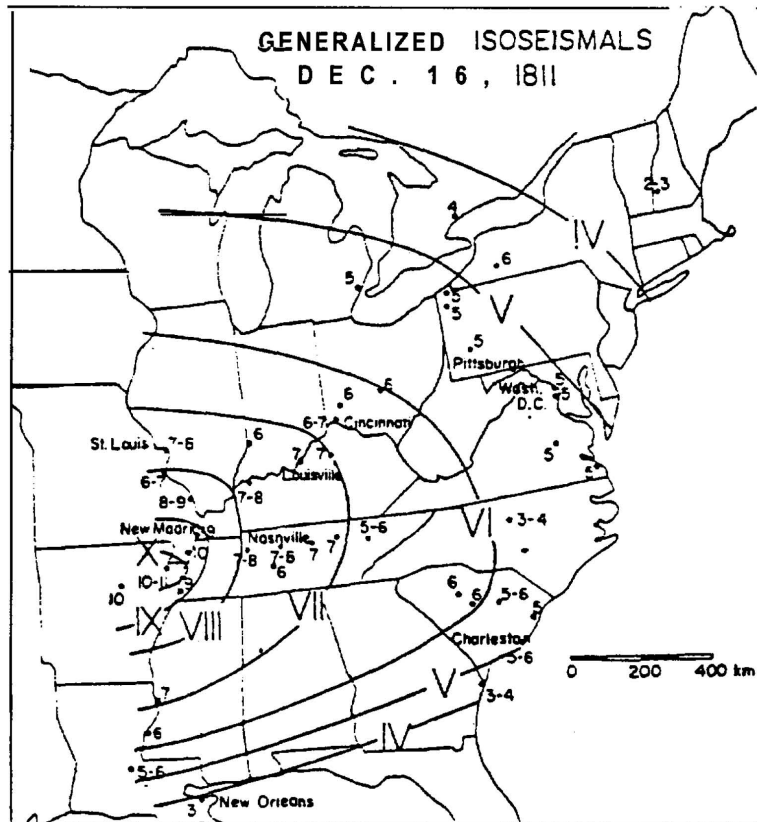
U.S. "Historical Seismicity of New England" (report 85-SEP001)
prepared for Boston Edison Company, Pilgrim Unit 2,
Sector No. 50-071



From: "Historical Seismicity of New England" (report BE-567601)
prepared for Boston Edison Company, Pilgrim Unit 2,
Docket No. 50-471

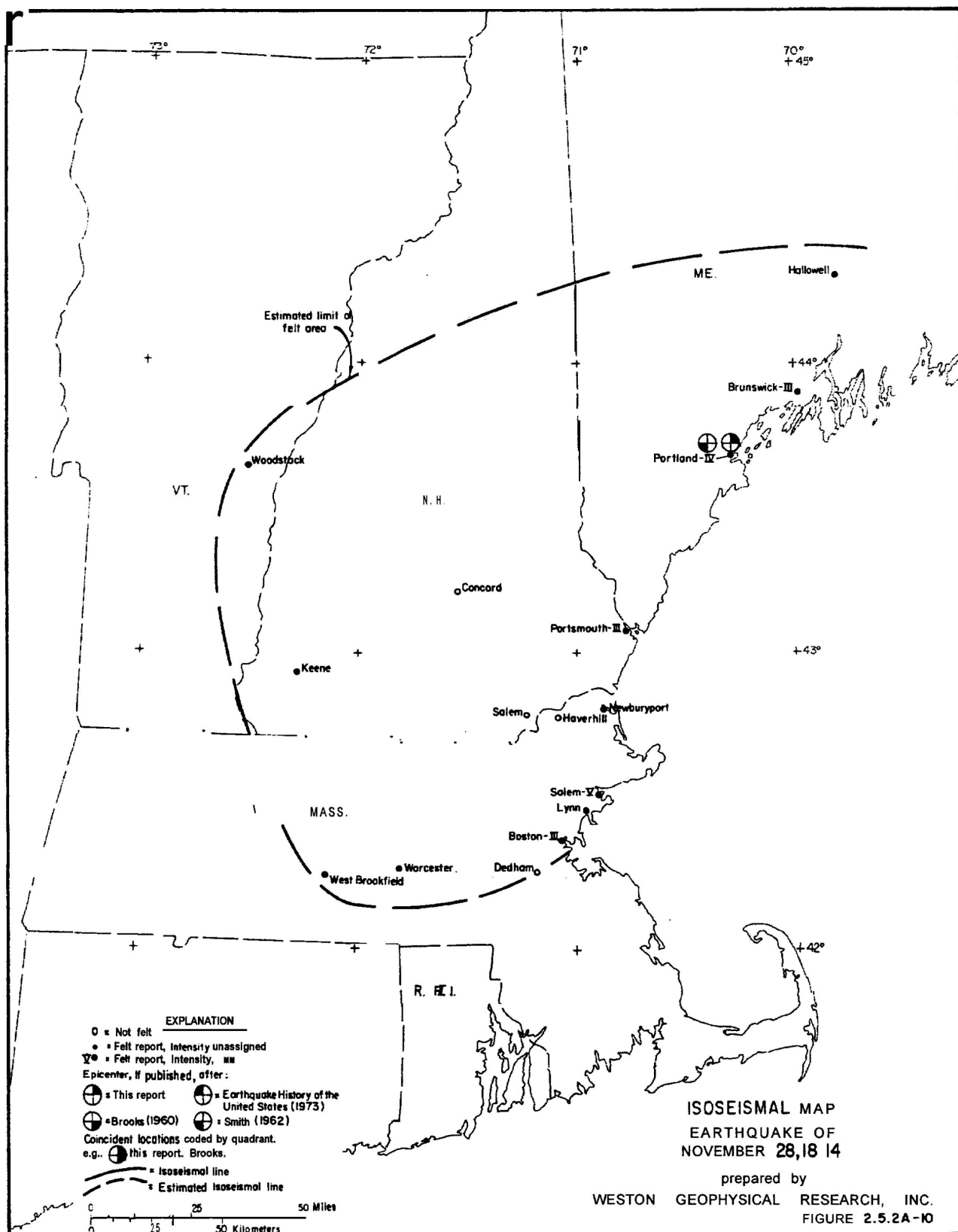


from: "Historical Seismicity of New England" (report BE-S67601)
prepared for Boston Edison Company, Pilgrim Unit 2
Docket No. 50-471

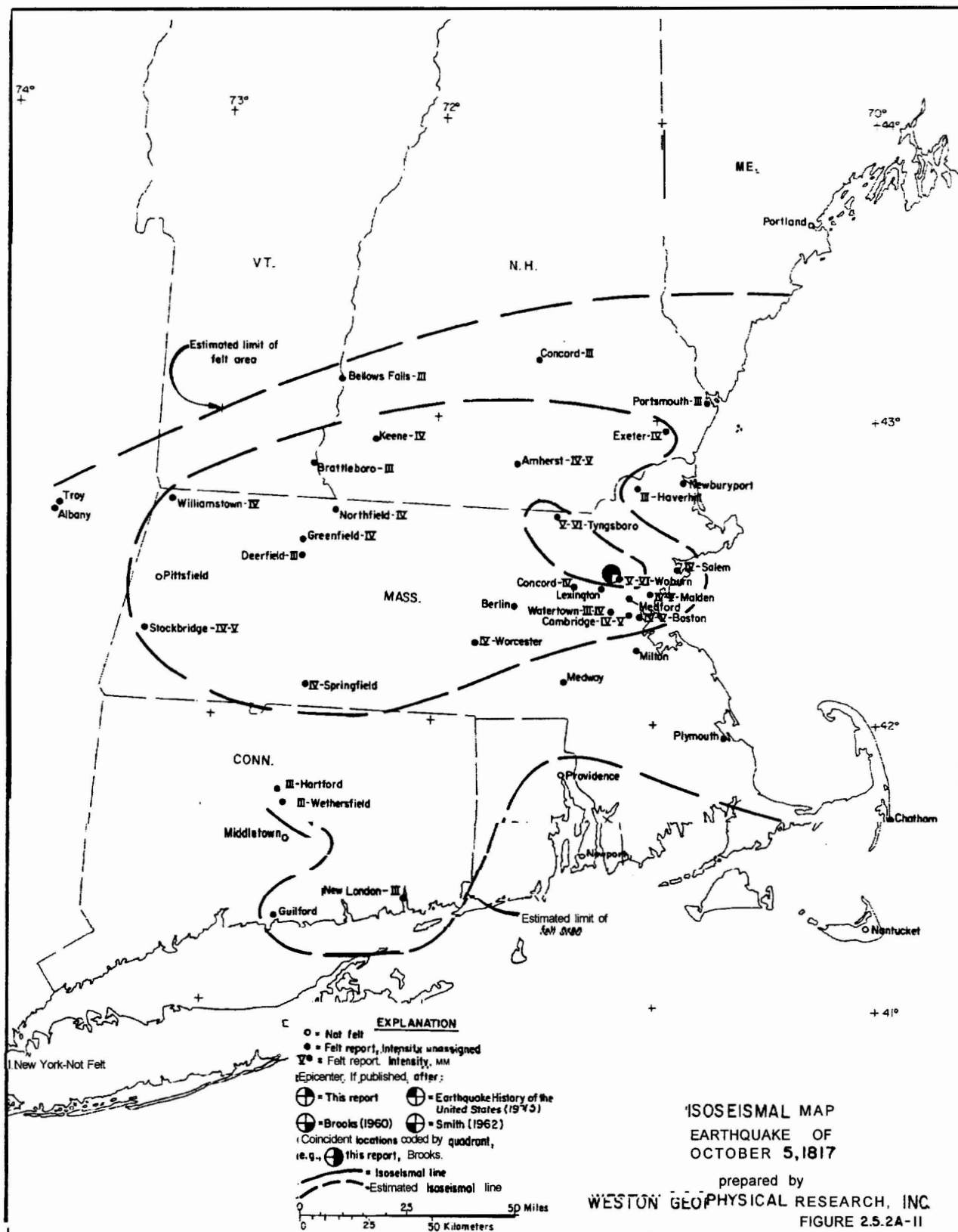


Generalized isoseismal map of the earthquake of December 16, 1811 at 08^h15^m GMT. MM intensity values at individual points are given in Arabic numerals (see Table 1 for sources of information). The isoseismals, labeled with Roman numerals, indicate the outer bound of the region of specified intensity.

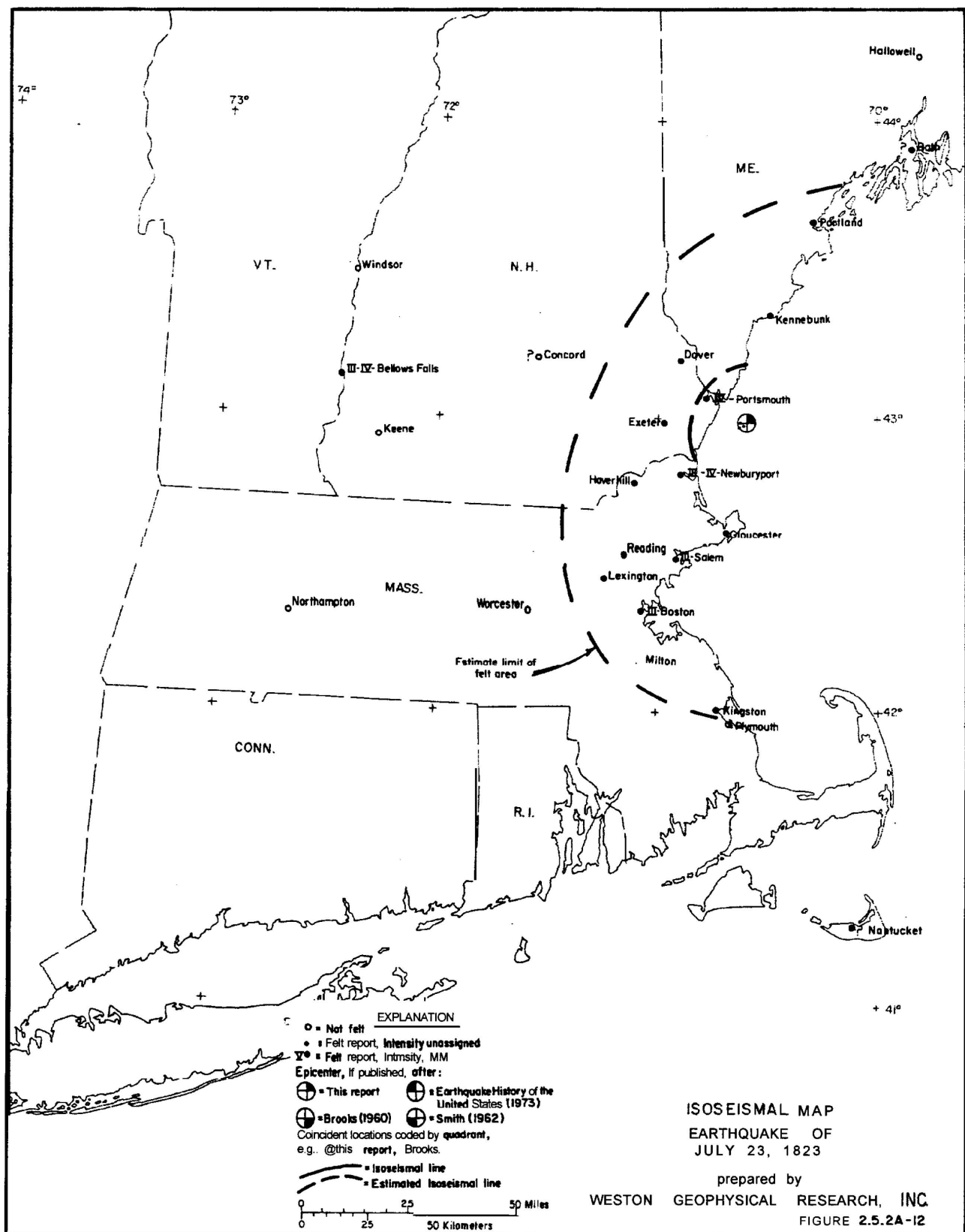
Nuttli, Otto W., 1973, The Mississippi Valley Earthquakes of 1811 and 1812: Intensities, Ground Motion and Magnitudes, B.S.S.A., Vol. 63, No. 1, pp. 227-248.



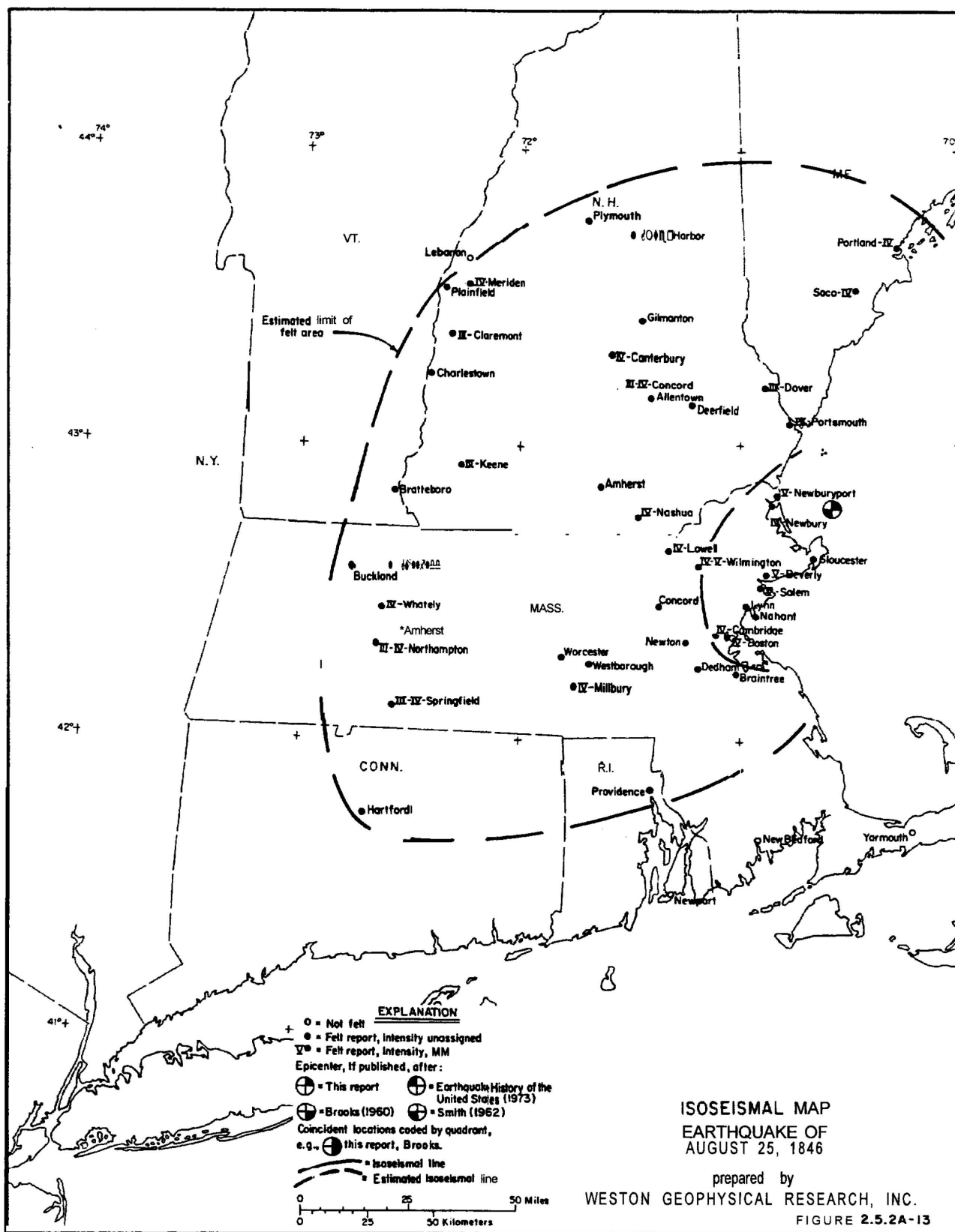
an: "Historical Seismicity of New England" (report BE-567601)
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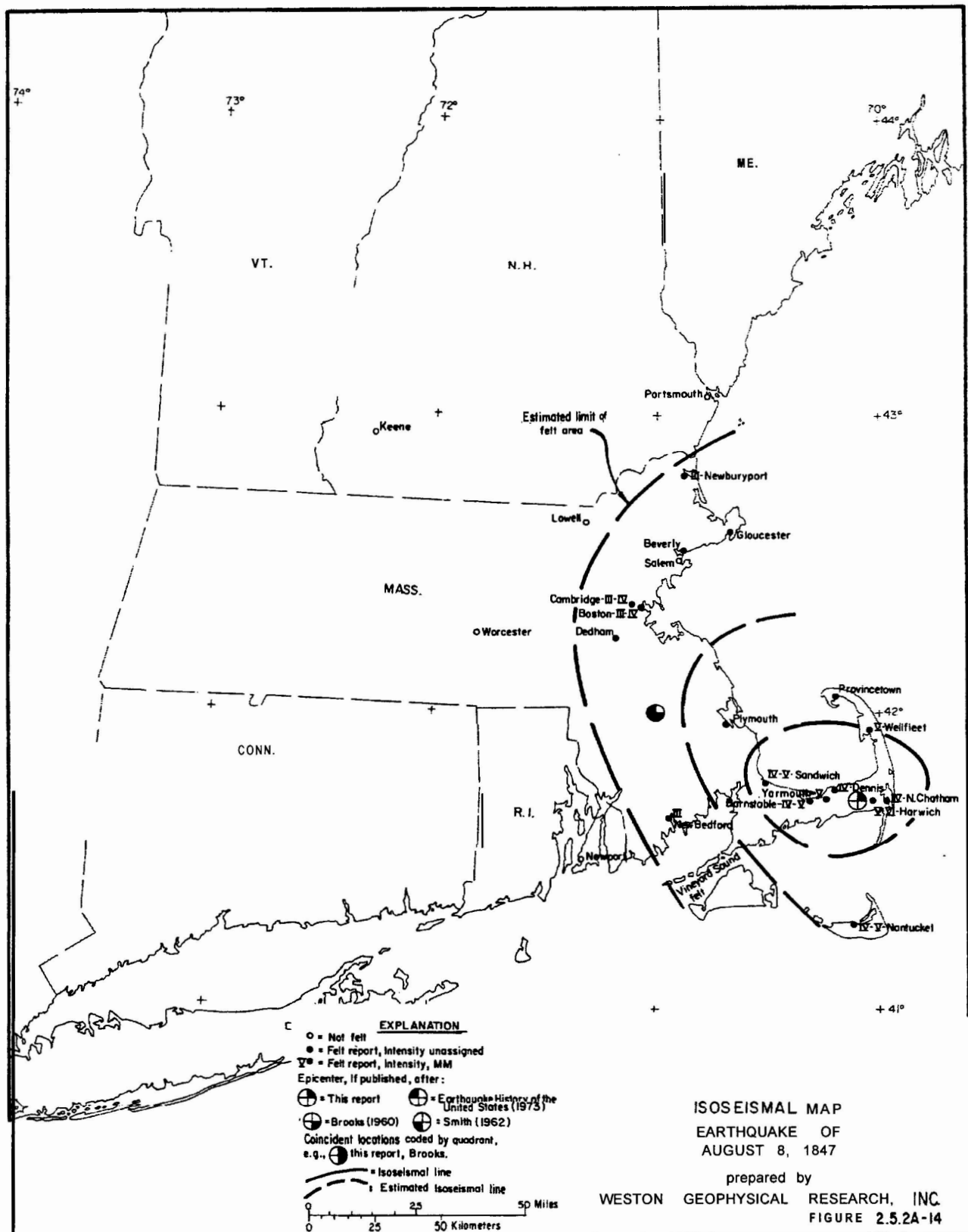
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Docket No. 50-471



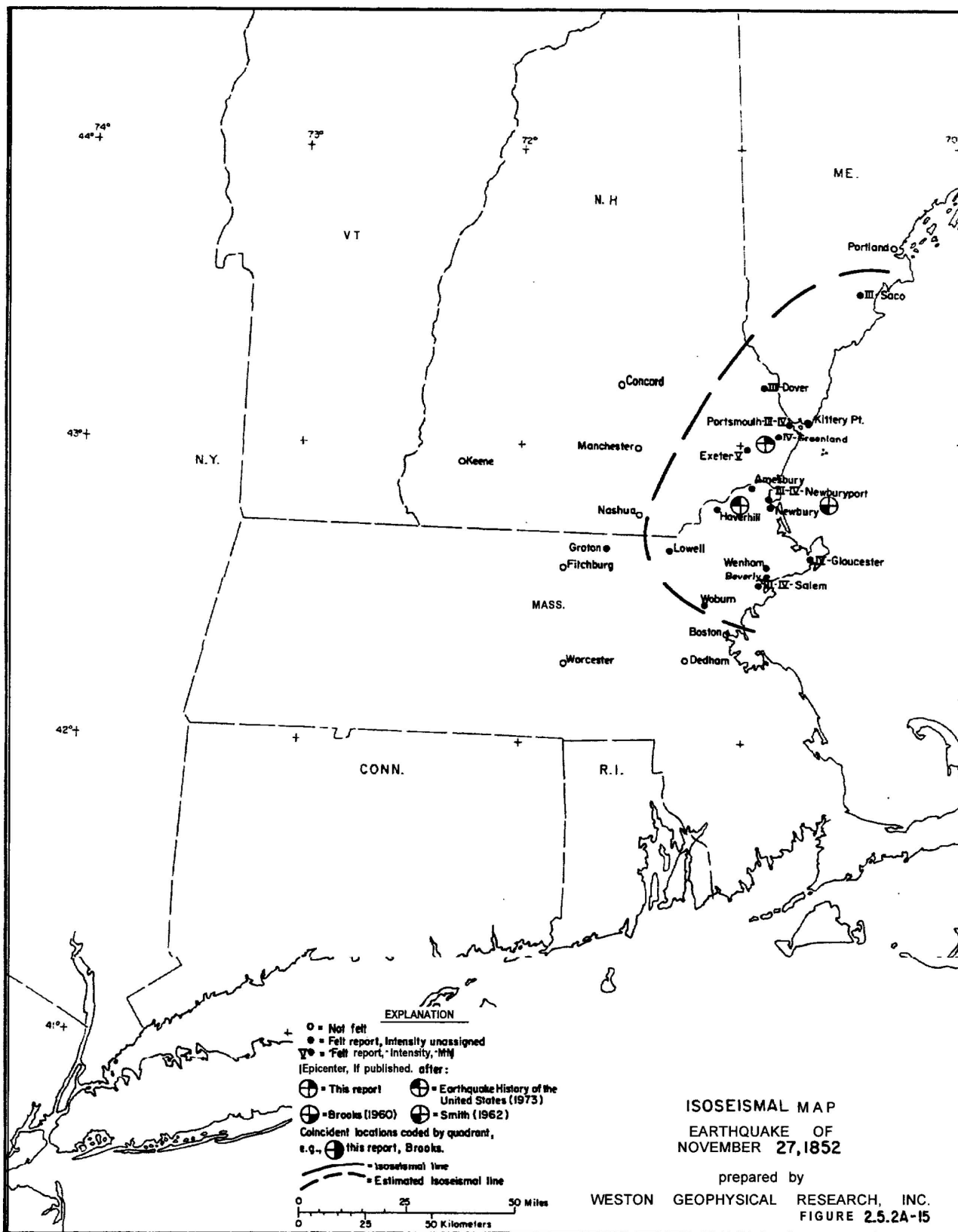
NOTE: "Historical Seismicity of New England" (report BE-567601)
prepared for Boston Edison Company, Pilgrim Unit 2,
Docket No. 50-471



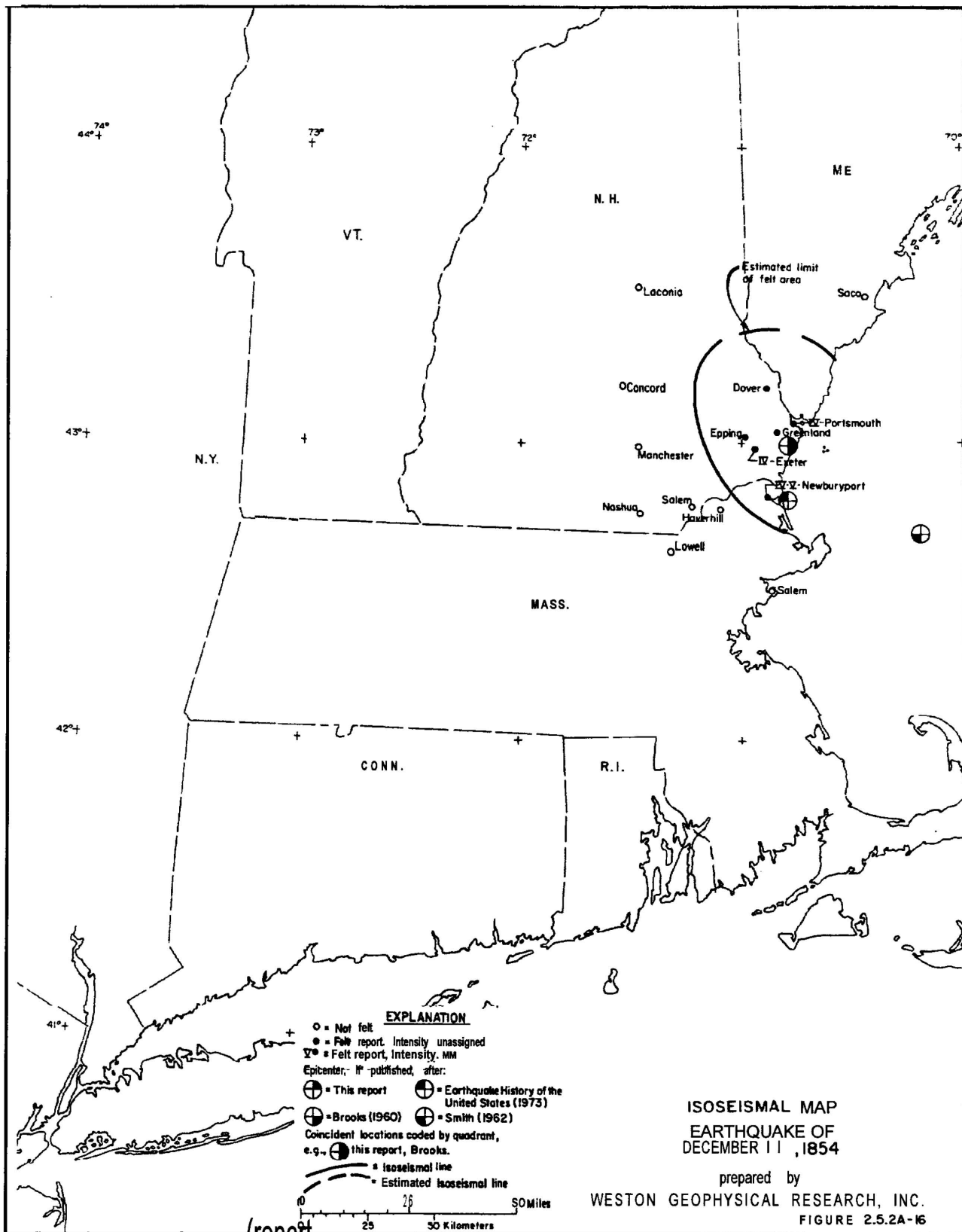
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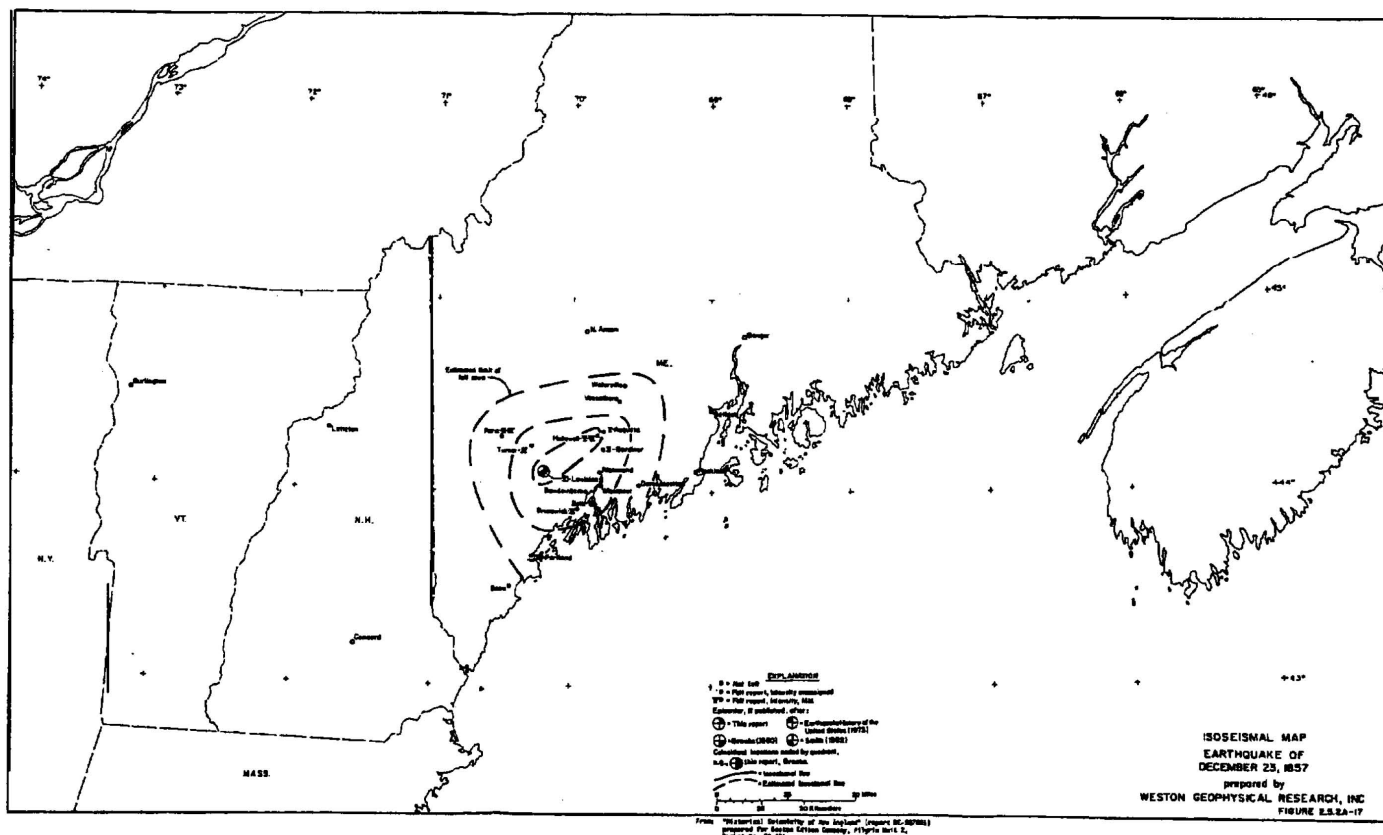
NOTE: "Historical Seismicity of New England" (report RE-SG7601)
prepared for Boston Edison Company, Pilgrim Unit 2,
Docket No. 50-471

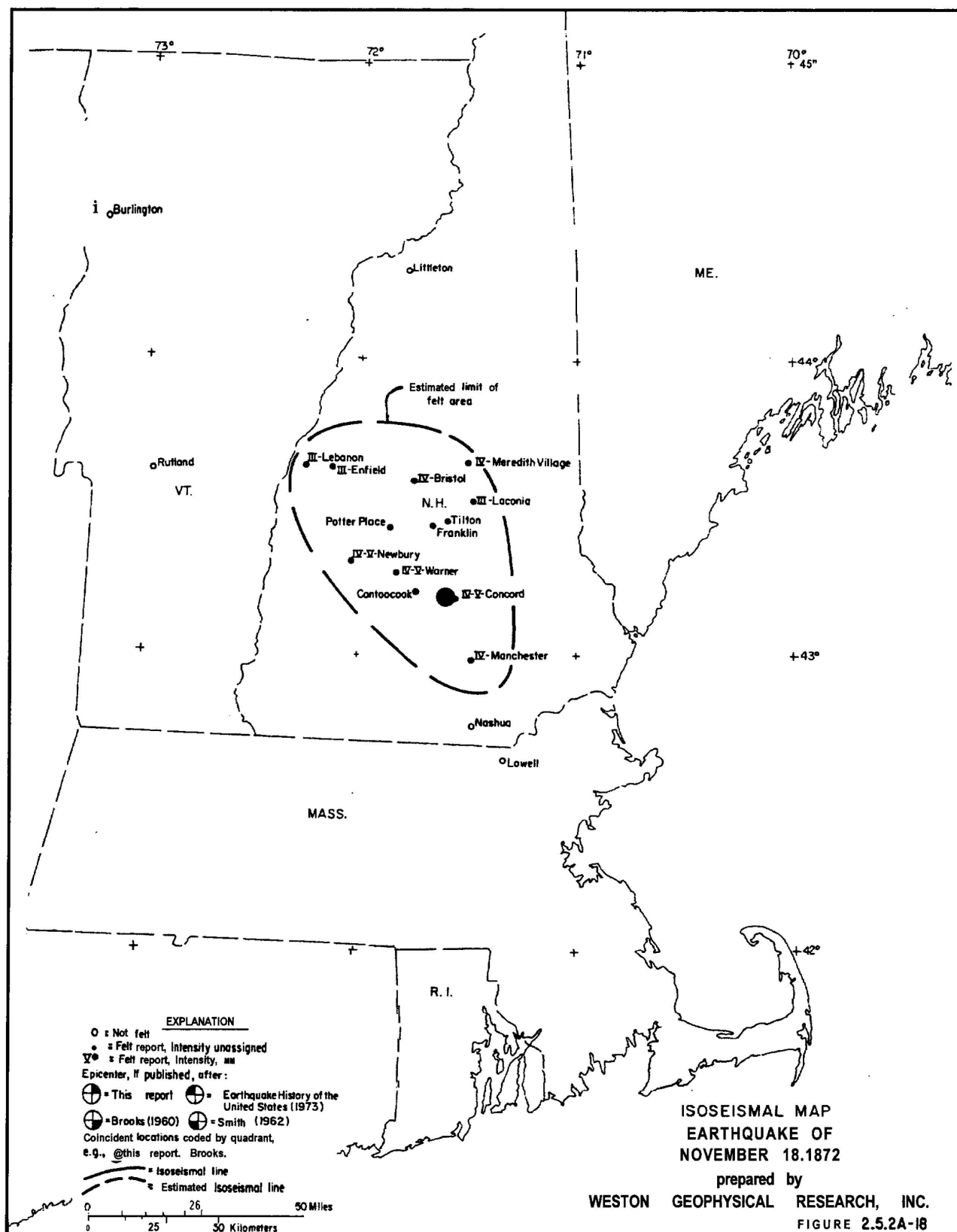


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Docket No. 50-471

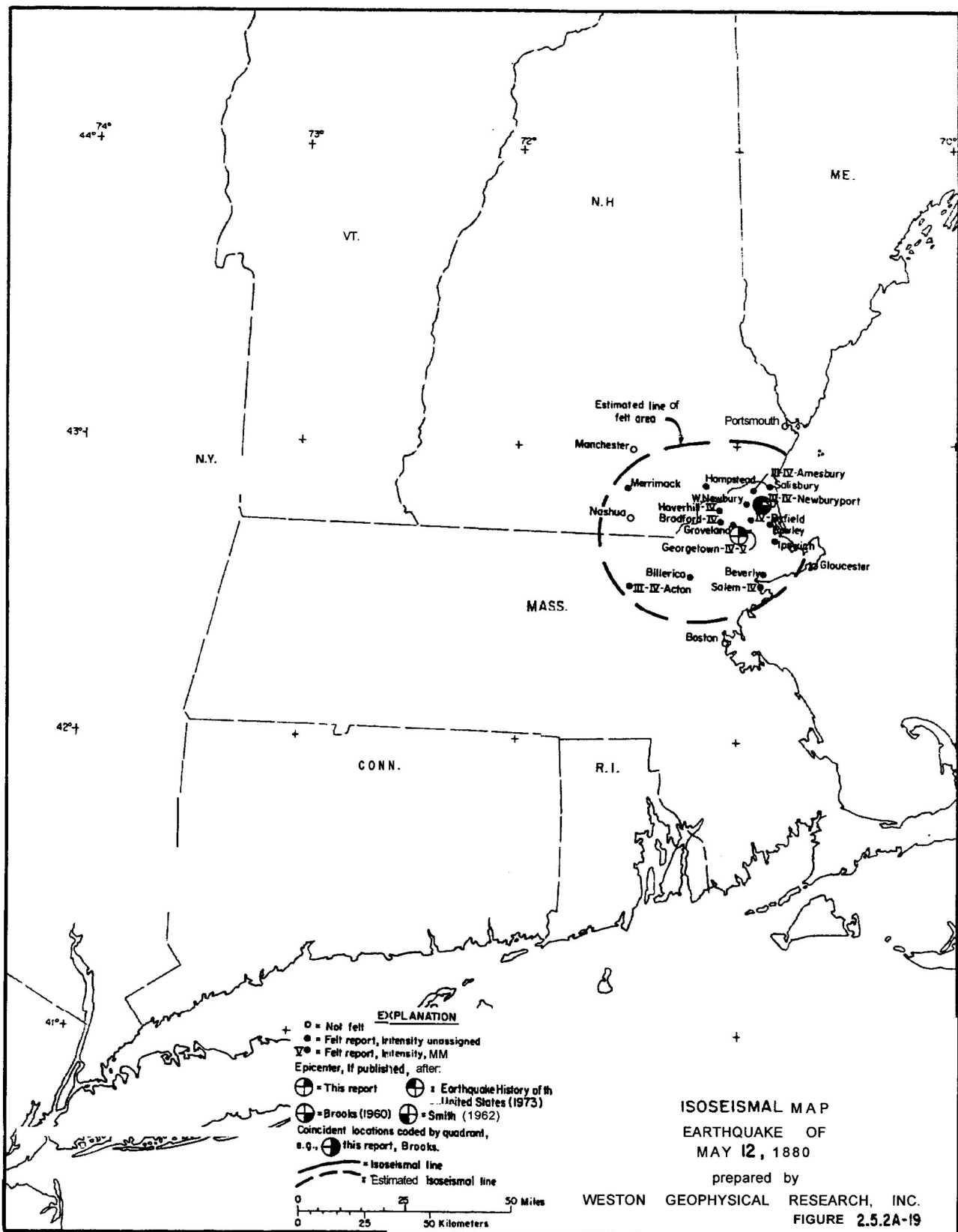


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Docket No. 50-471

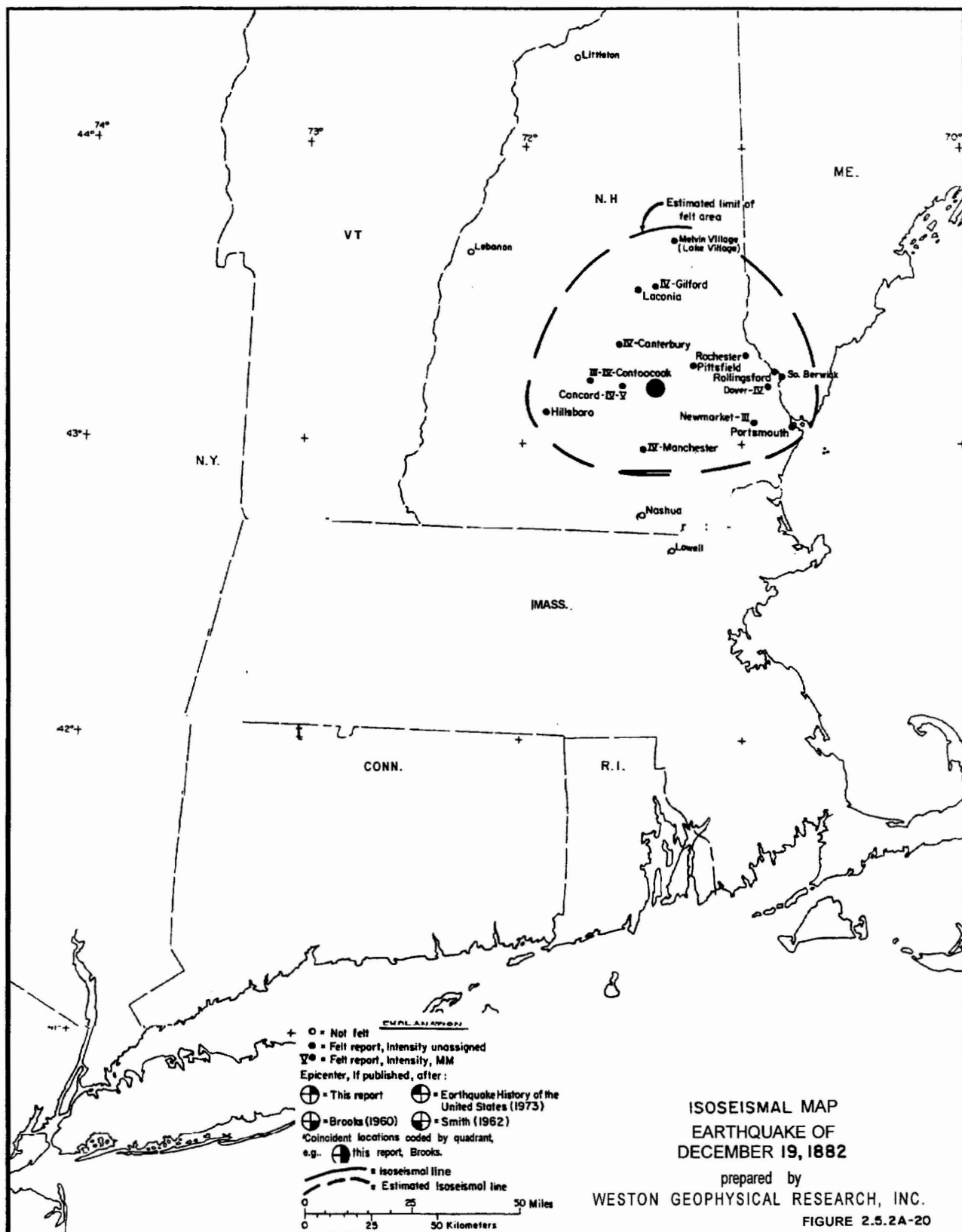




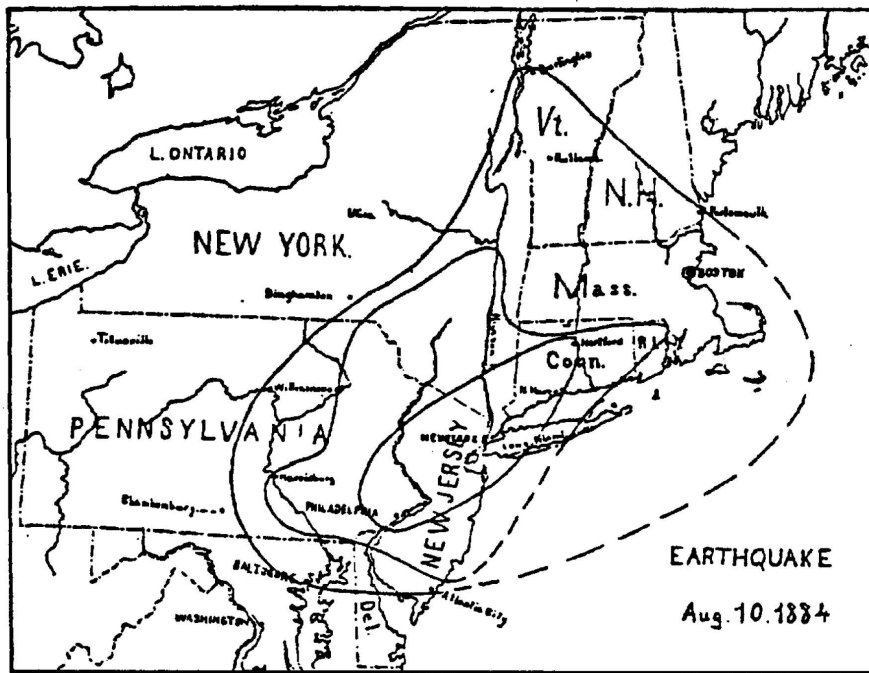
III: "Historical Seismicity Of New England" (report BE-SG7601)
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From: "Historical Seismicity of New England" (report BE-SG7601)
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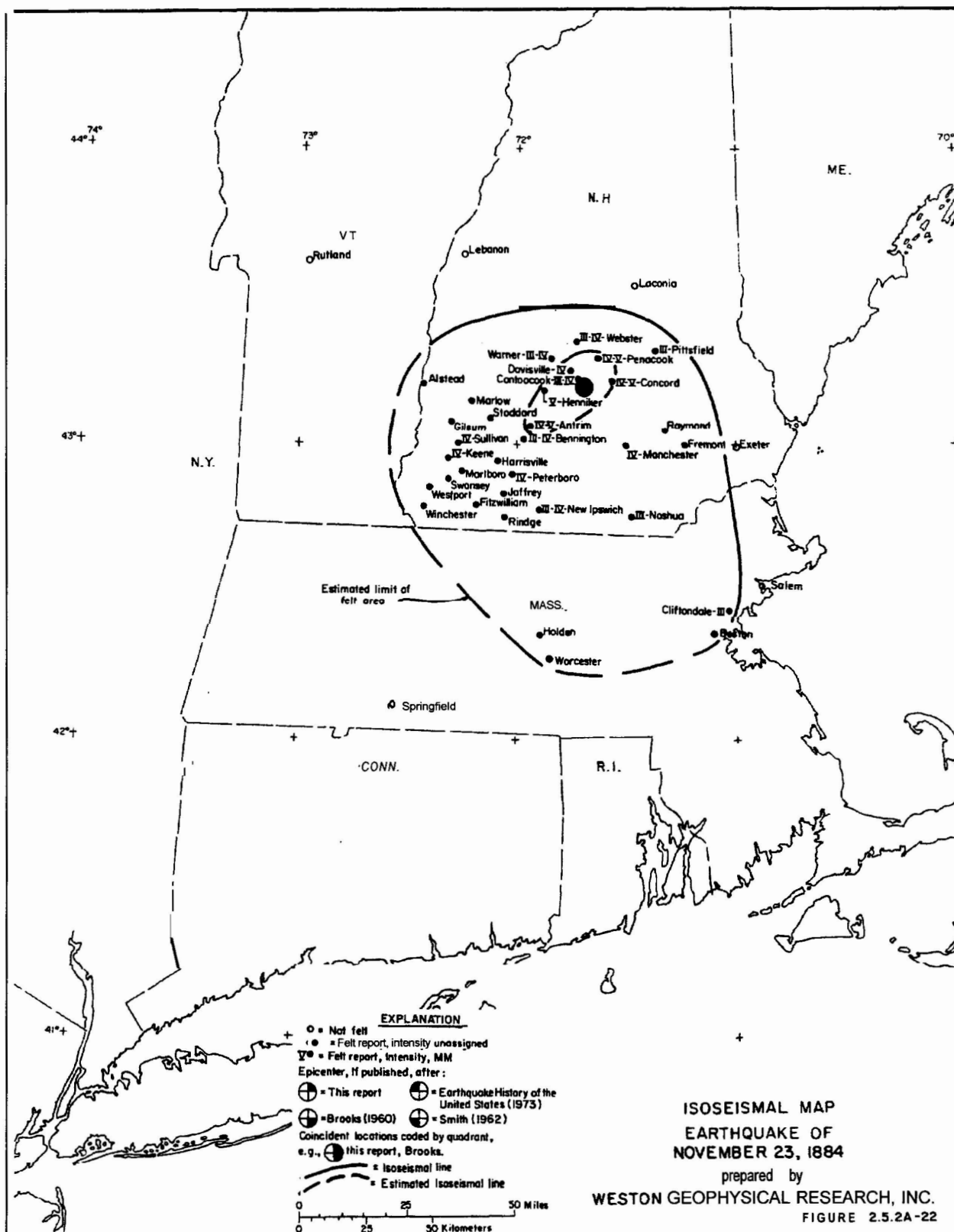


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Docket No. 50-471

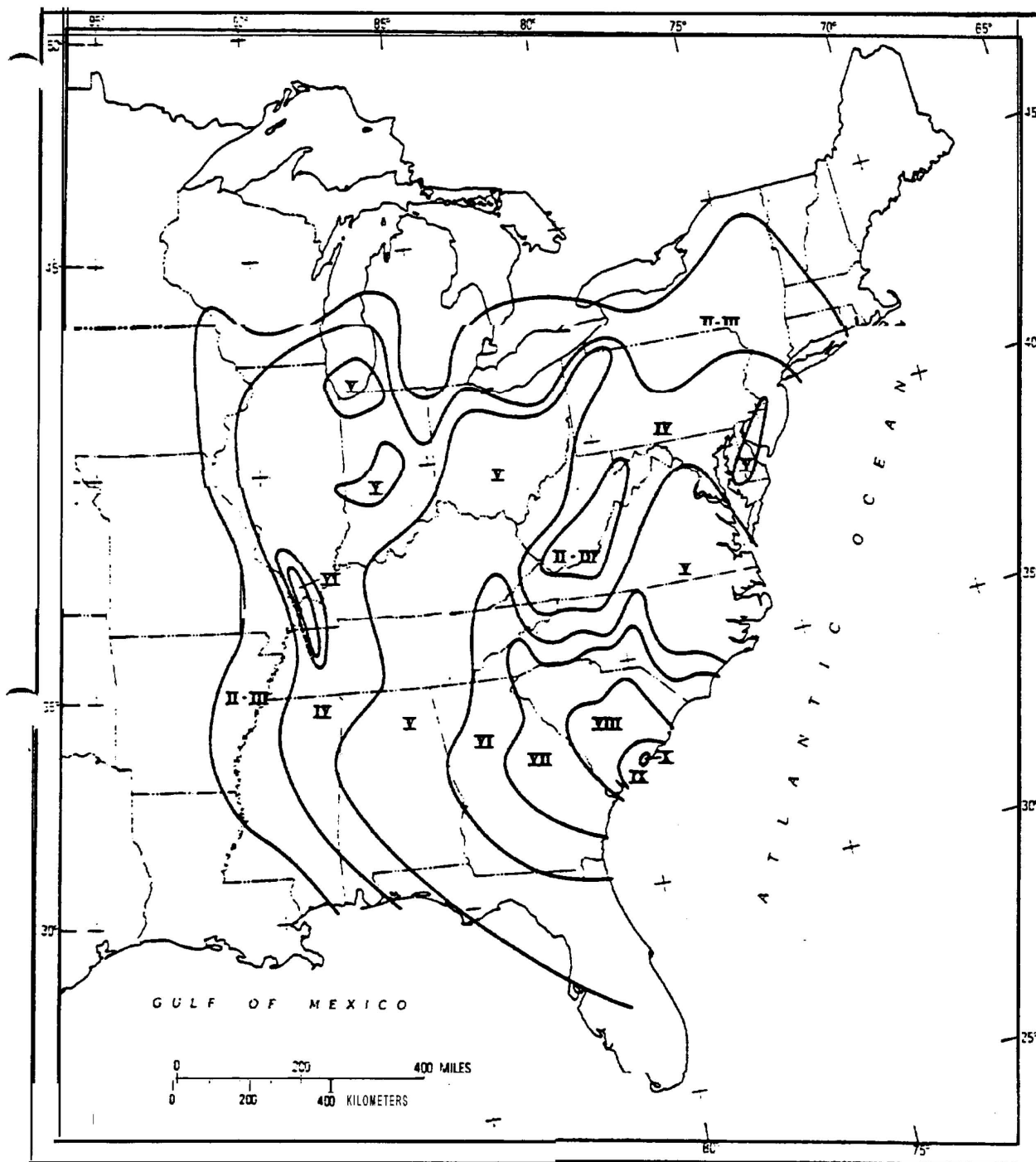


Rockwood, C. G., Jr., "Notices of Recent American Earthquakes",
 Amer. Jour. Sci., V. 29, pp. 425-437.

Figure 2.5.2A-21



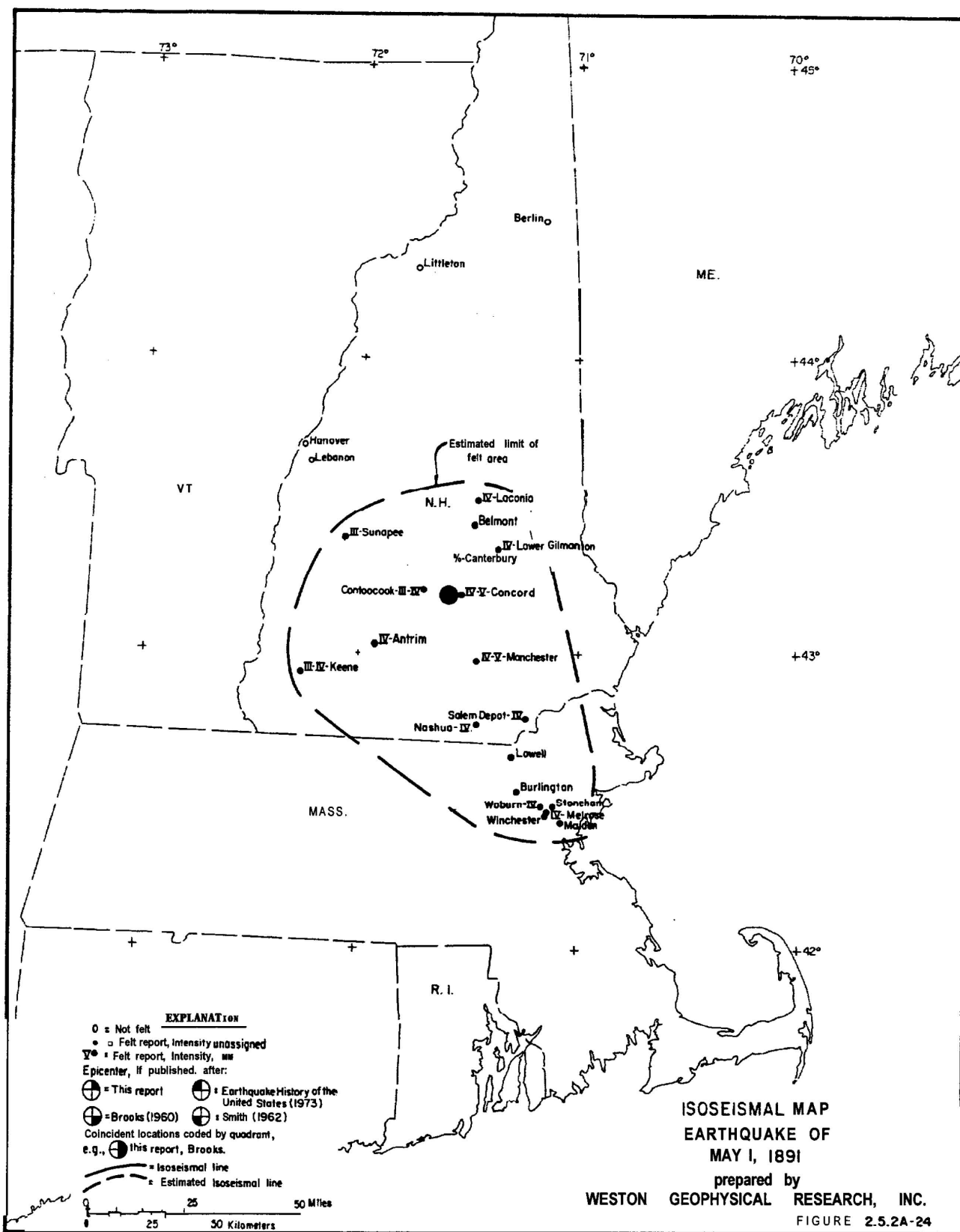
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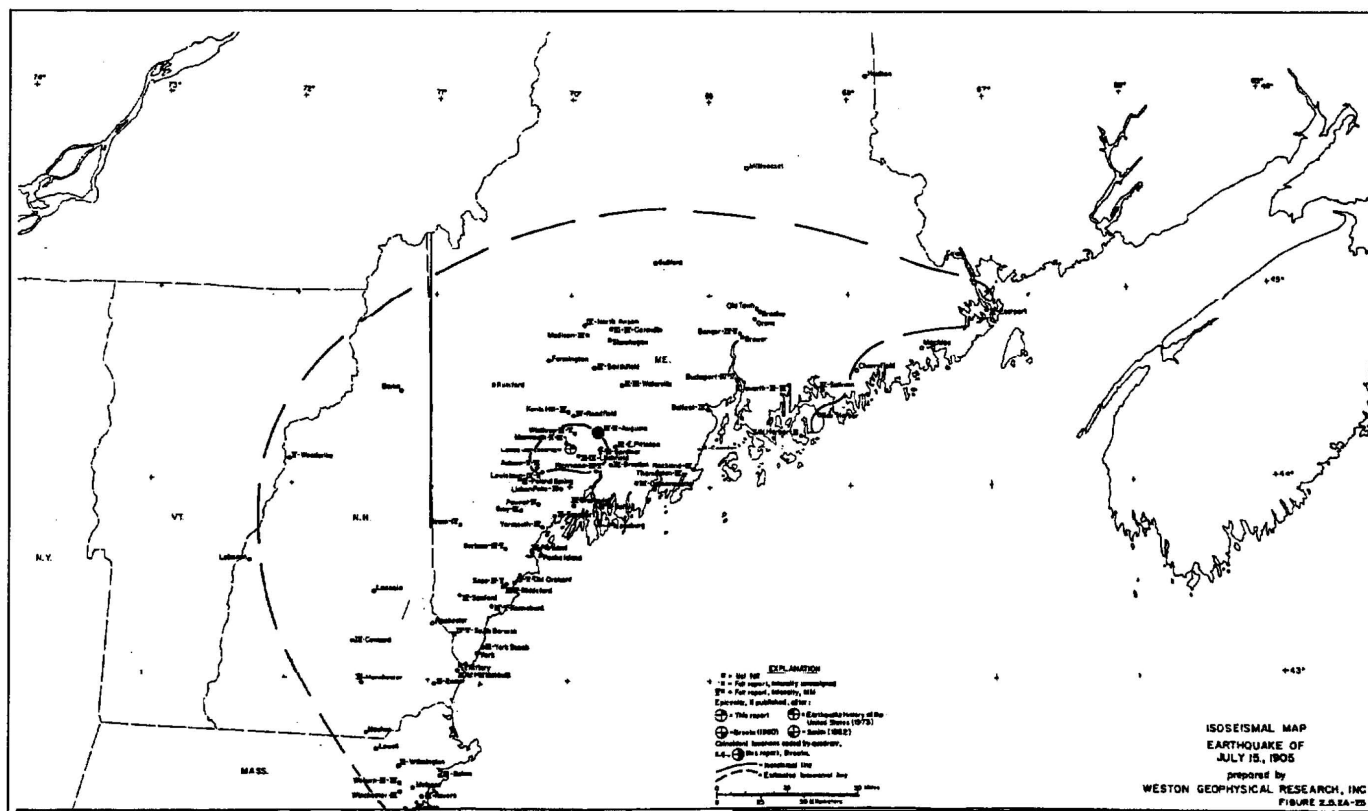
—Isoseismal map of the Eastern United States contoured to show the broad regional patterns of the reported intensities for the 1886 Charleston earthquake. Contoured intensity levels are shown in Roman numerals.

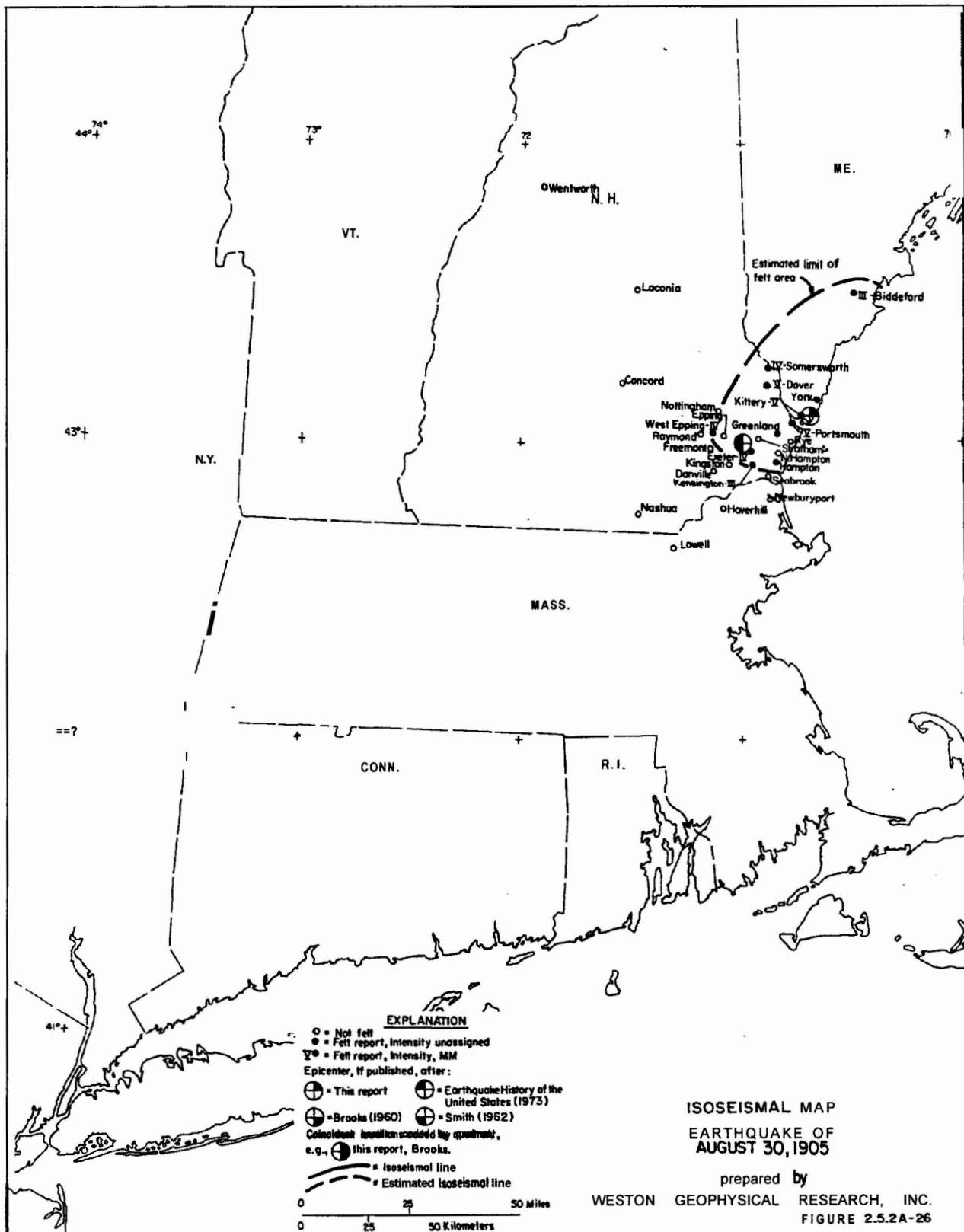
"Studies Related to the Charleston, South Carolina, Earthquake of 1886-A Preliminary Report". Geological Survey Professional Paper 1028, U.S.G.S., Washington, D.C., 1977.

Figure 2.5.2A-23

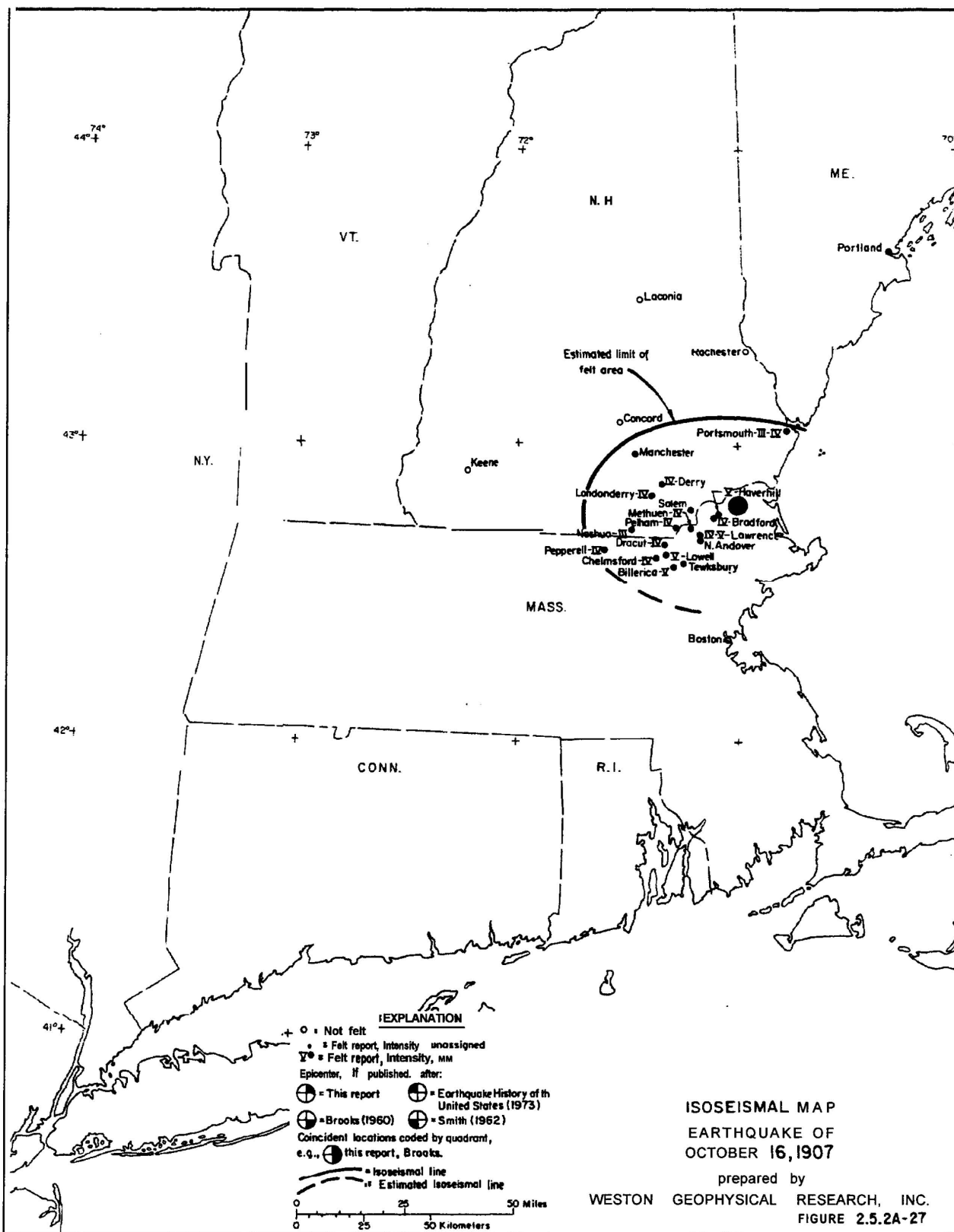


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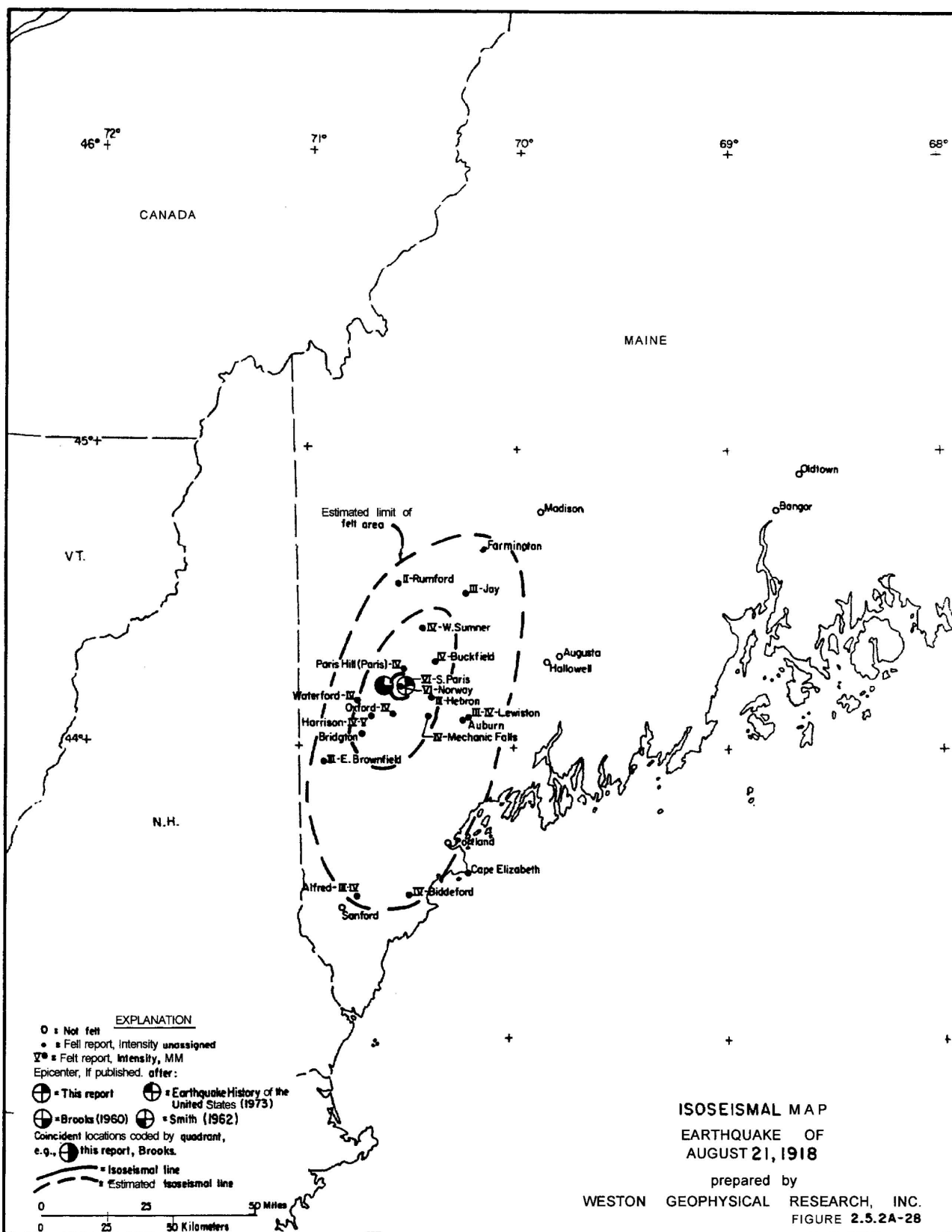




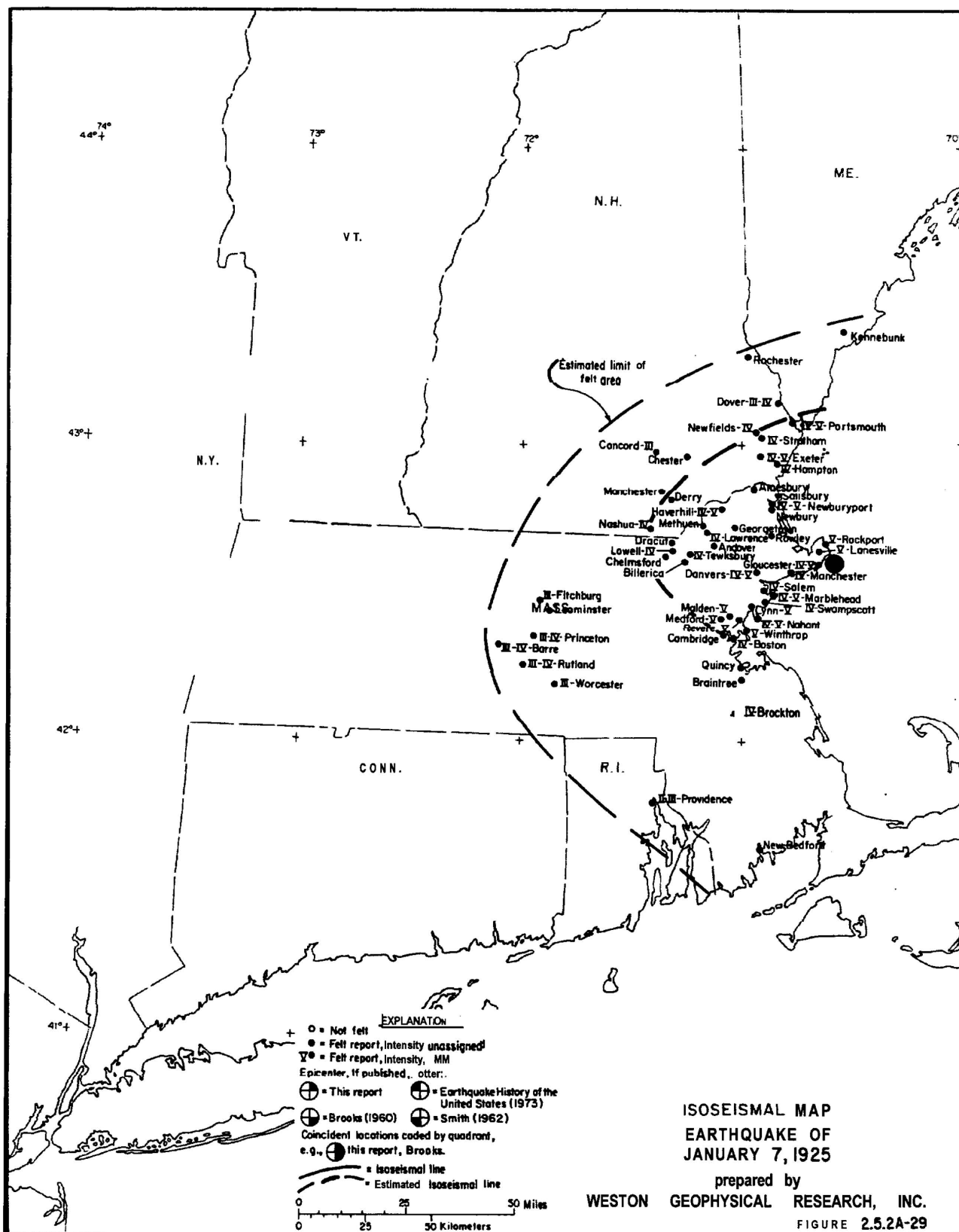
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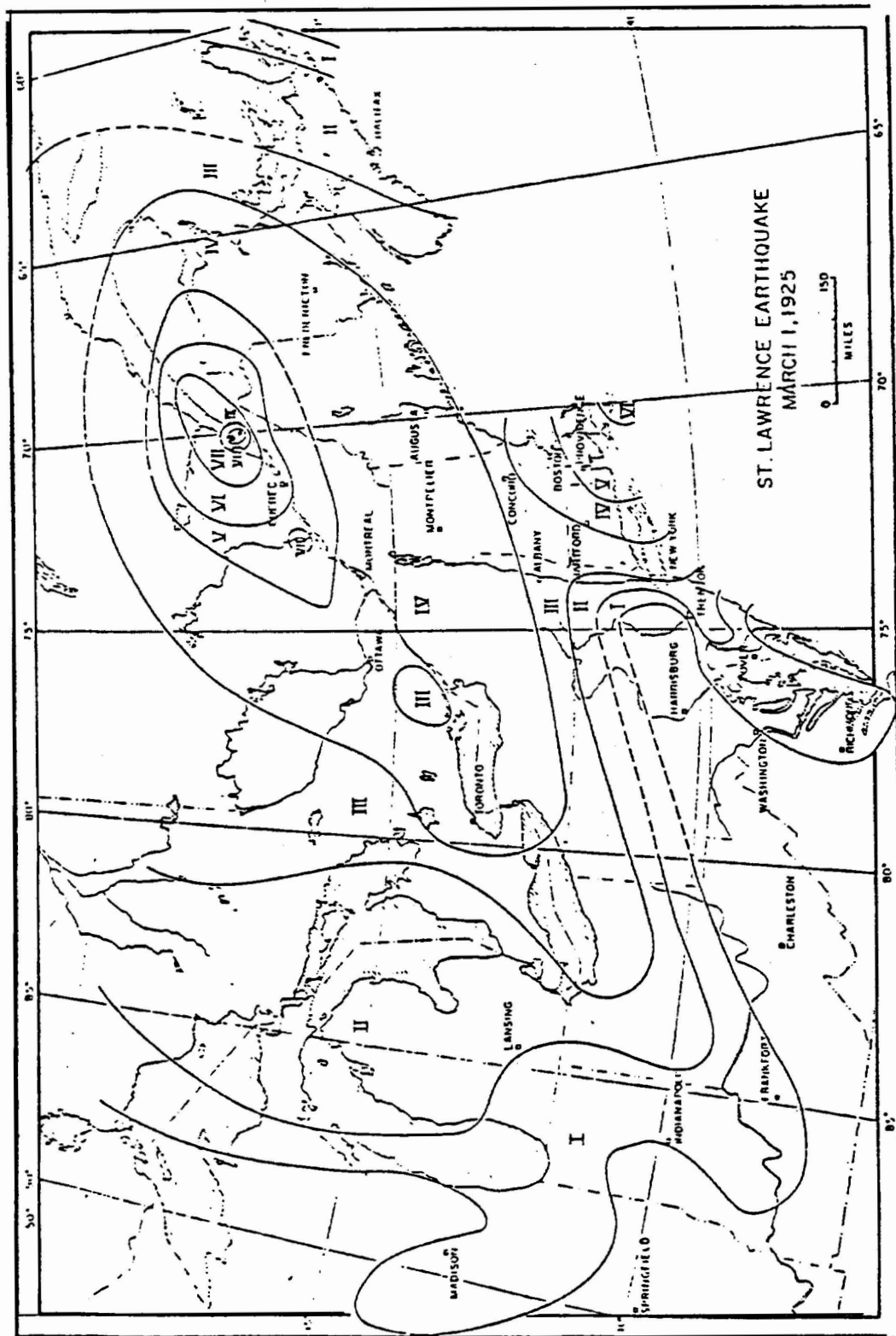
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From: "Historical Seismicity of New England" (report NE-567601)
prepared for Boston Edison Company, Pilgrim Unit 2.
Docket No. 50-471

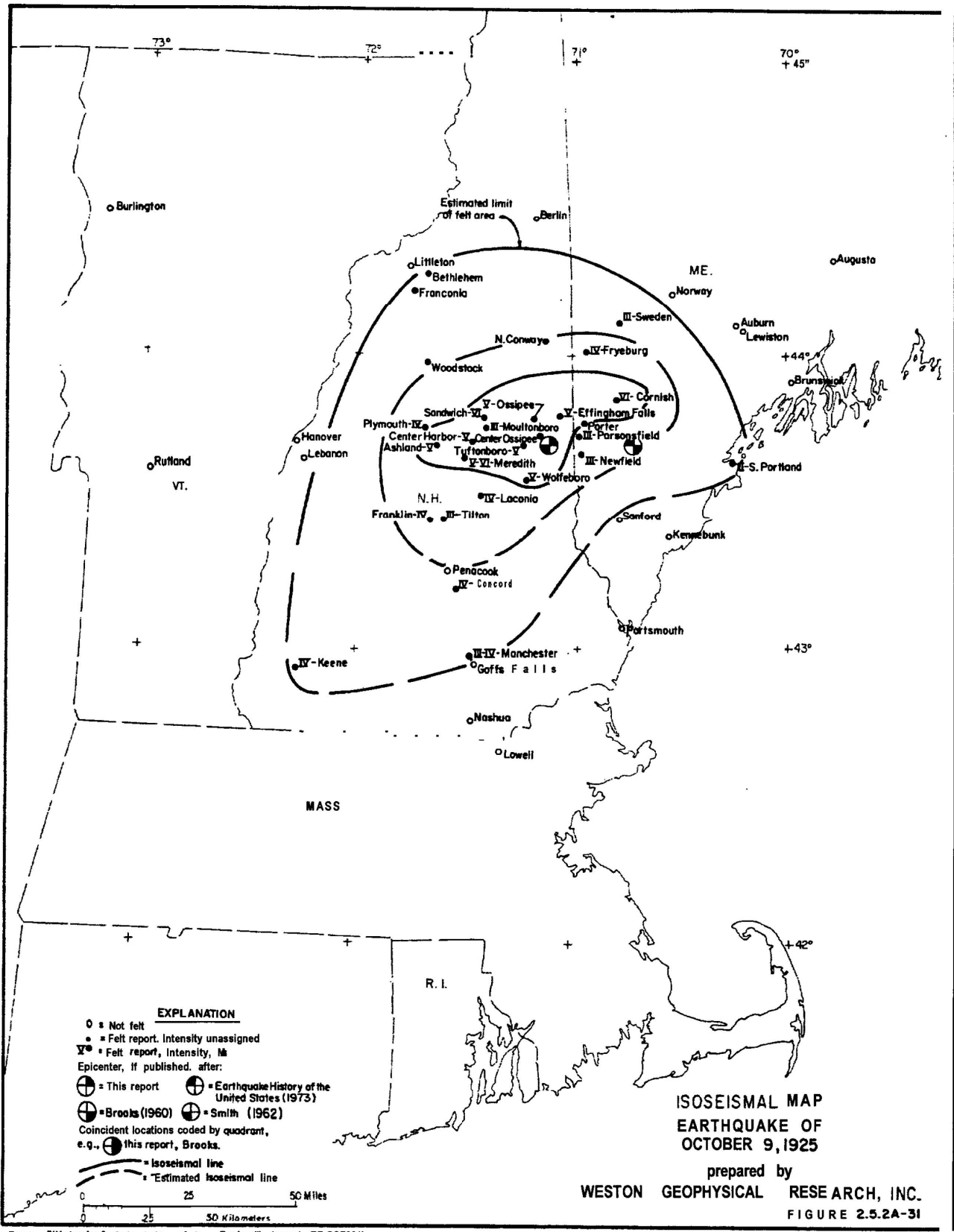


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Docket No. So-471

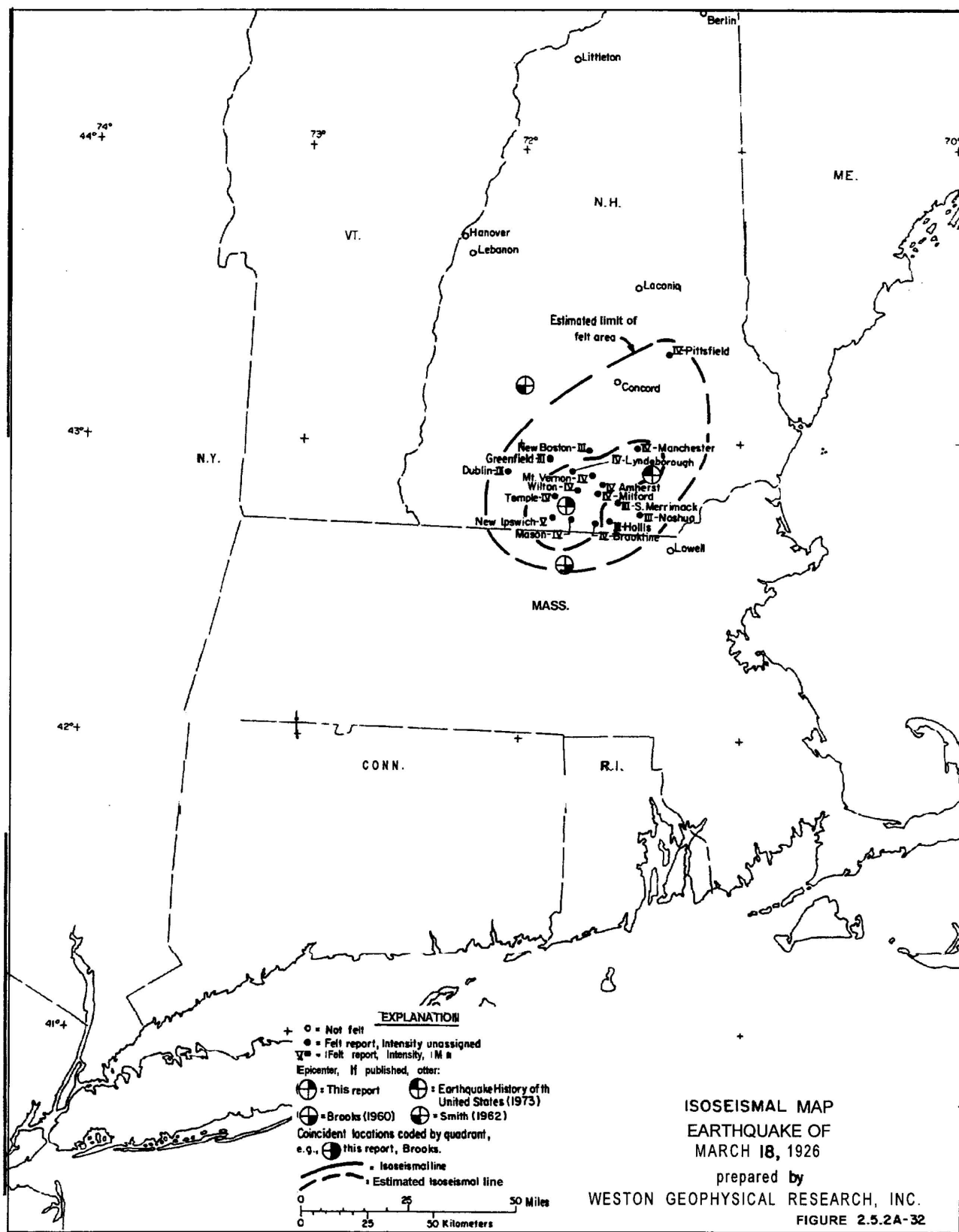


Smith, W. E. T., Earthquakes of Eastern Canada And Adjacent Areas, 1928-1959, Publications of the Dominion Observatory, Department of Mines and Technical Surveys, Ottawa, Canada, 1966, p. 119, Vol. 32, No. 3.

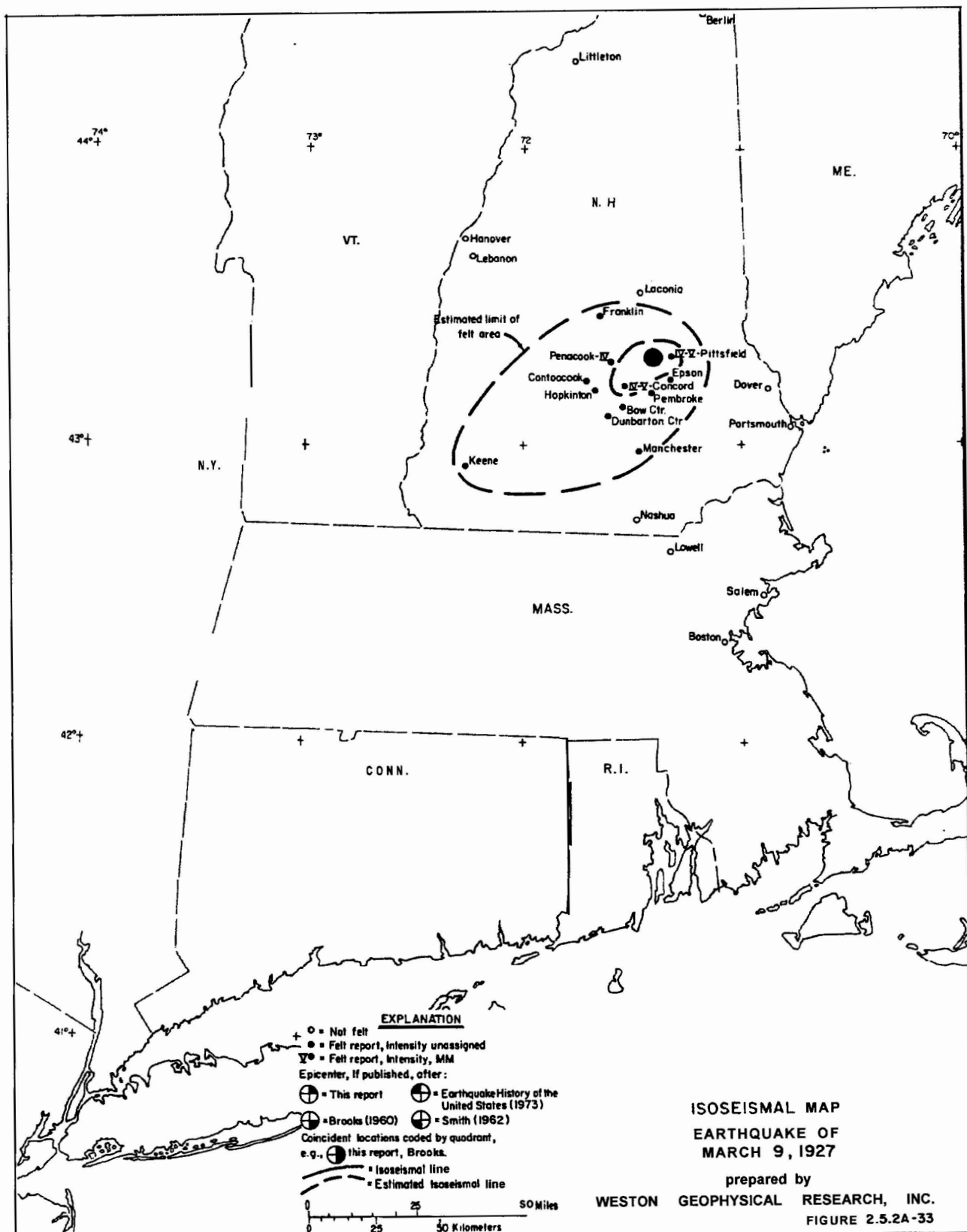
Figure 2.5.2A-30



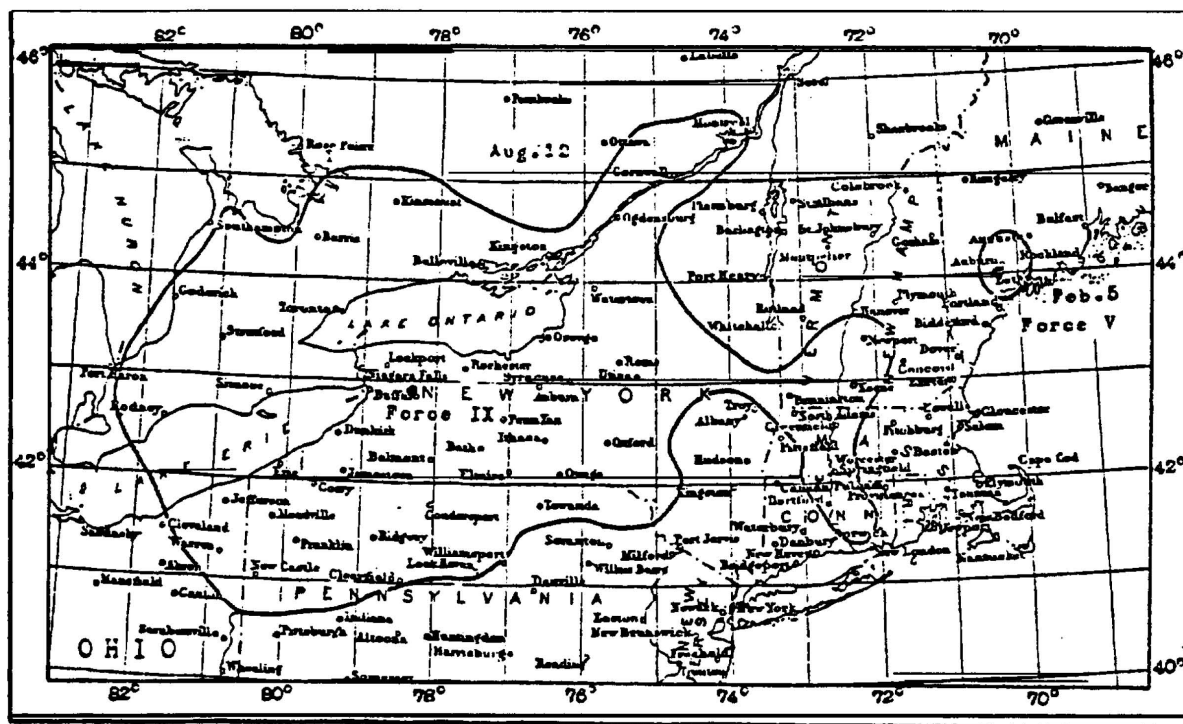
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"OM: "Historical Seismicity of New England" (report BE-S67601)
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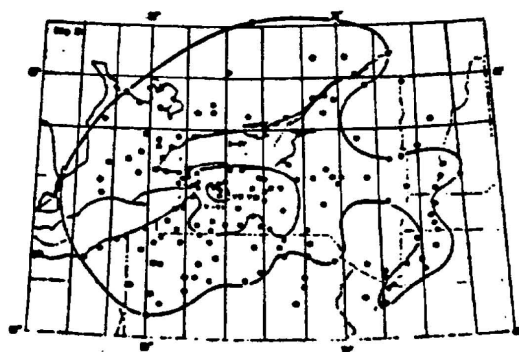


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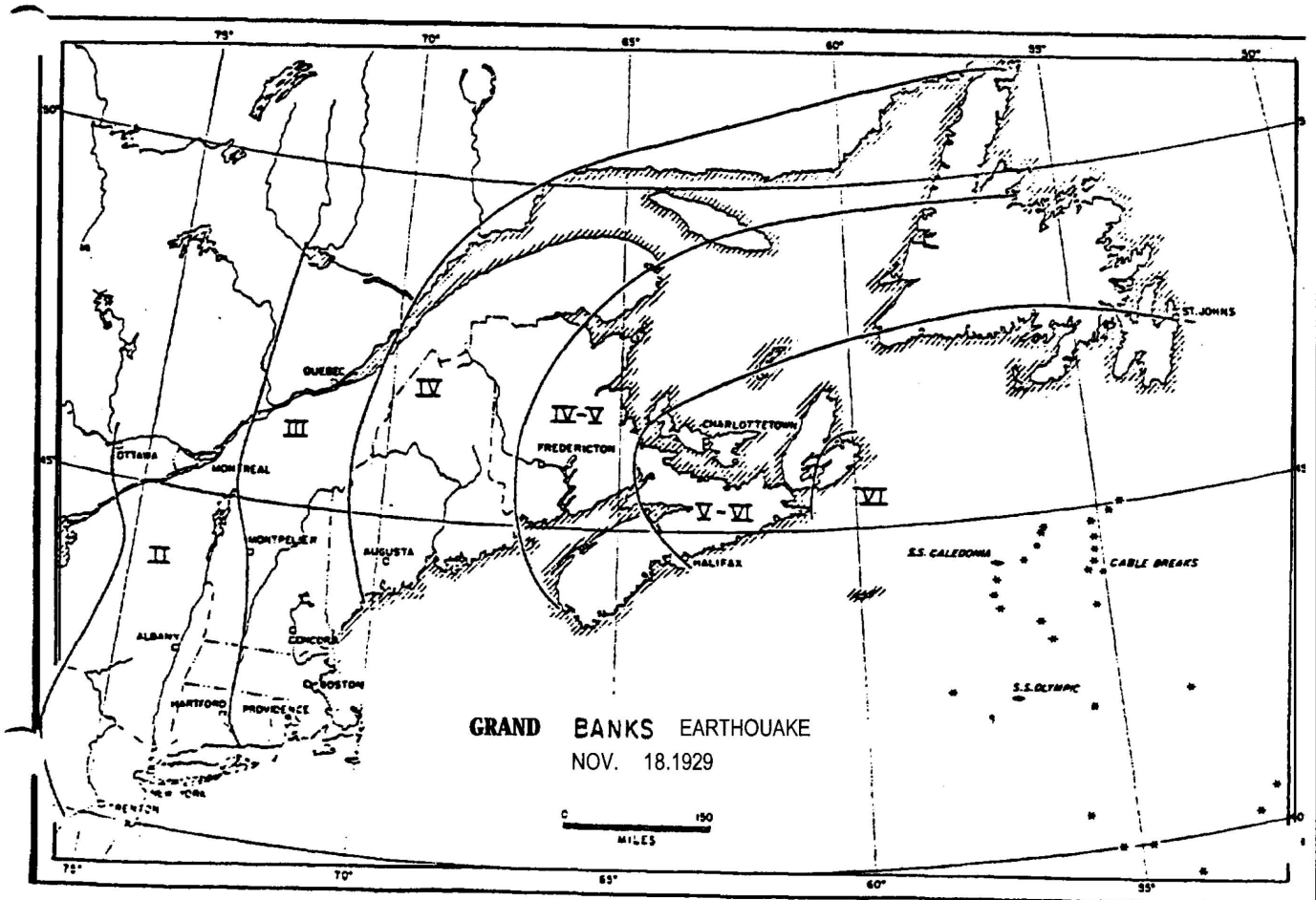
Areas affected by shocks of February 5 and August 12

Heck, N. H. and R. R. Bodle, 1931, United States Earthquakes, 1929,
United States Department of Commerce, Coast and Geodetic Survey,
Washington, D.C., p. 7.



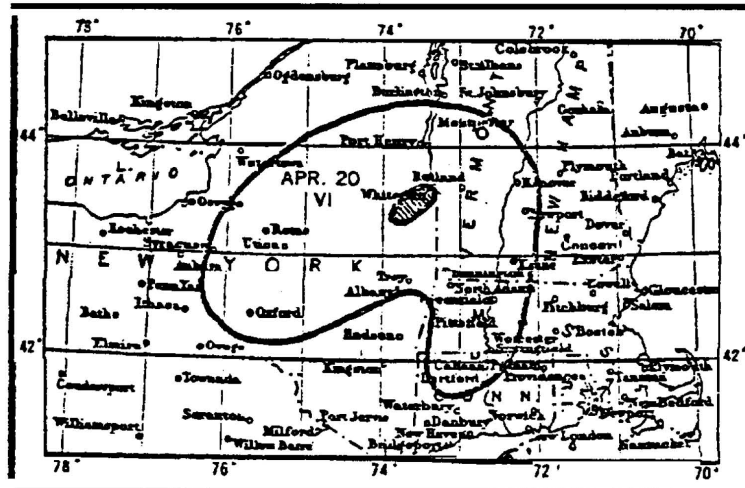
The Attica, New York. Earthquake of August 12, 1929. A
modification of Heck and Bodle (1931, fig. 3): 125,000 sq. mi.

Docekal, J., 1971, Earthquakes of the Stable Interior with Emphasis on the Midcontinent,
Department of Geology, University of Nebraska,
Lincoln, Nebraska, p. 134.



Smith, W.E.T., Earthquakes of Eastern Canada and Adjacent Areas, 1928-1959,
Publications of the Dominion Observatory, V. 32, No. 3, Ottawa,
 Canada, 1966.

Figure 2.5.2A-35

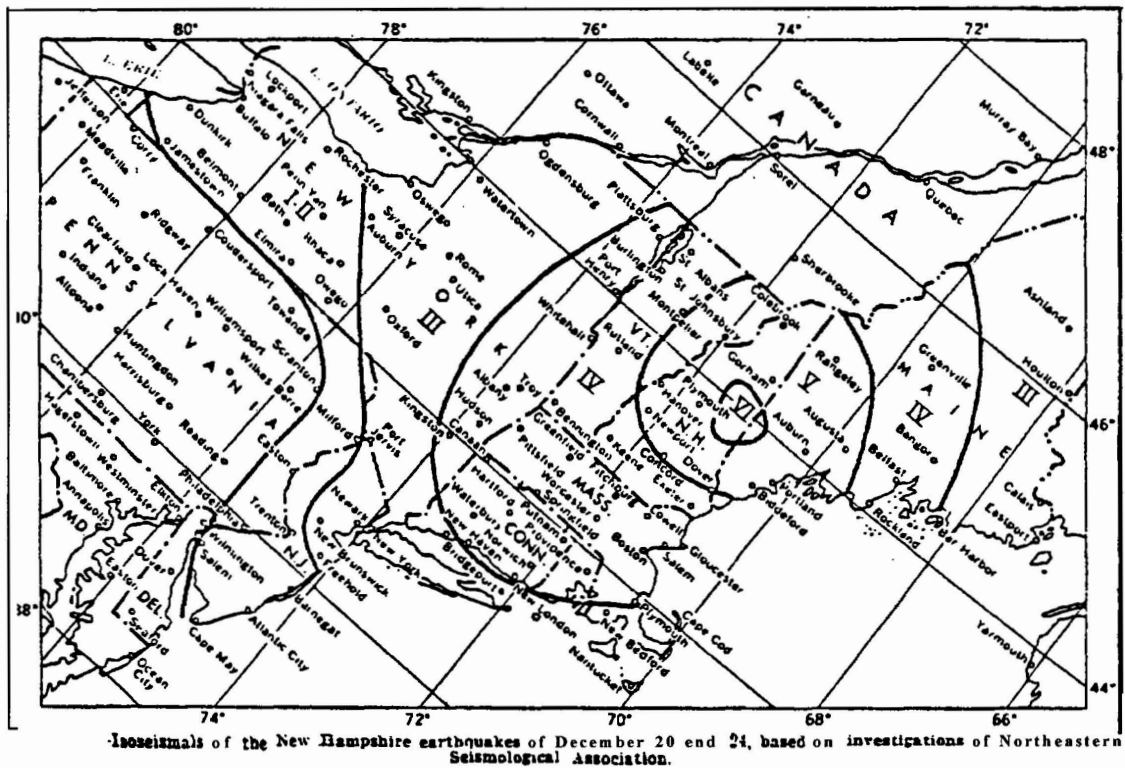


Area affected by Lake George shock of April 20

Neumann, Frank, United States Earthquakes, 1931, U.S. Dept. of
Commerce, Coast and Geodetic Survey, Washington, D.C., 1932

April 20, 1931

Figure 2.5.2A-36



Neumann, Frank, United States Earthquakes, 1940, U.S. Dept. of Commerce, Coast and Geodetic Survey, Washington, D.C., 1942.

Dec. 20, 24, 1940

Figure 2.5.2A-37

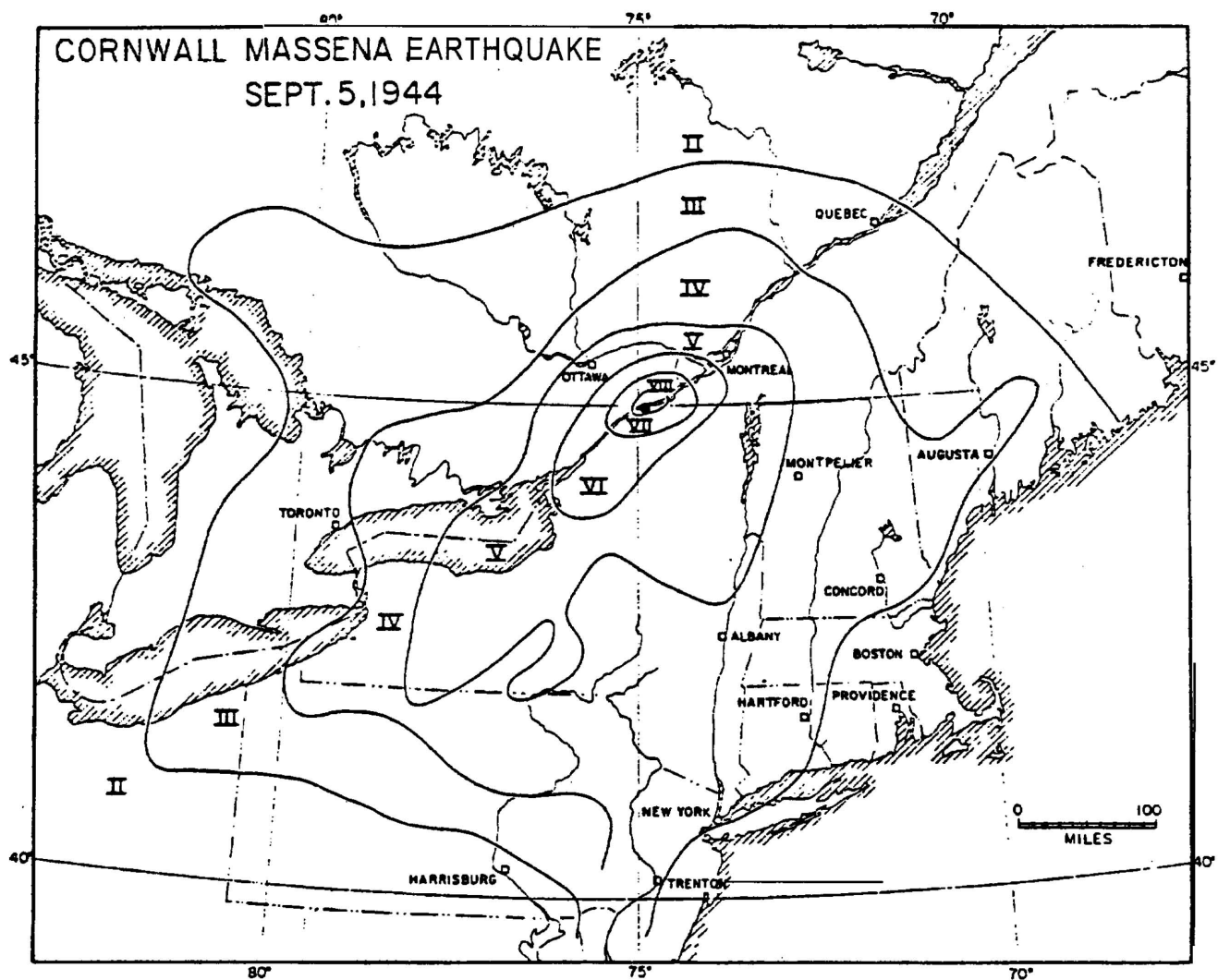
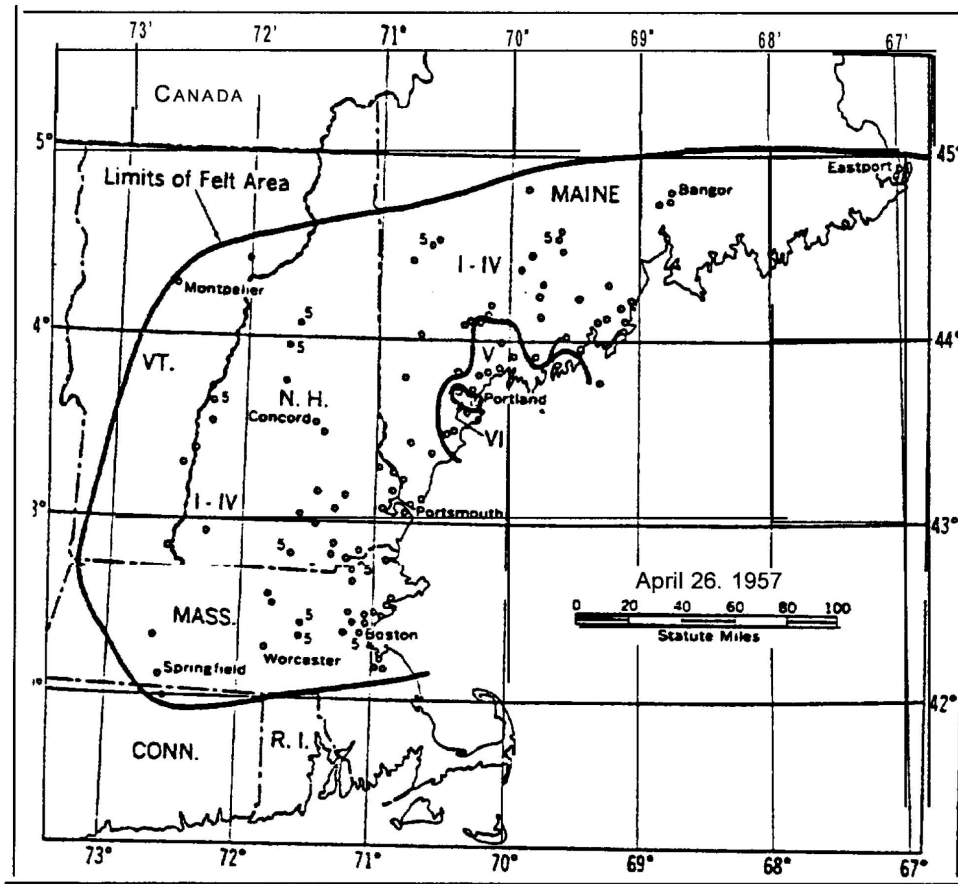


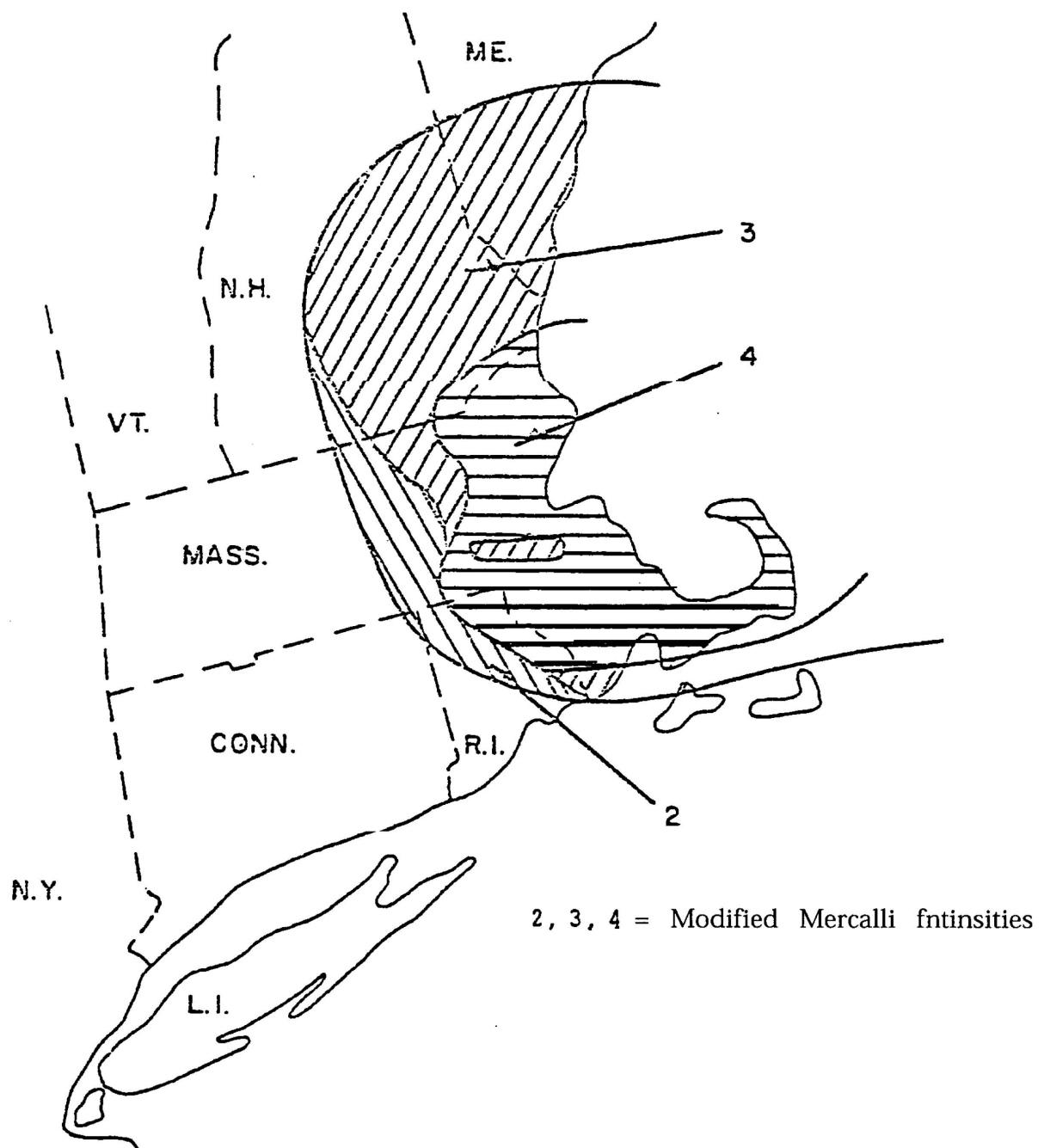
FIGURE 6. Adapted from Milne (M14).

Smith, W.E.T., 1966, Earthquakes of Eastern Canada and Adjacent Areas, 1928-1959, Publications of the Dominion Observatory, Ottawa, Canada, Vol. 32, No. 3.



Brazee, R. J. and W. K. Cloud, United States Earthquakes, 1957,
 U.S. Dept. of Commerce, Coast and Geodetic Survey,
 Washington, D.C., 1959.

Figure 2.5.2A-39



*after Breitling, W., "Crustal Structure and Attenuation Derived from the Boston Earthquake of October 16, 1963," Unpublished Master's Thesis, Boston College, Chestnut Hill, Massachusetts, 1965, page 2.

Wetmiller, R. J.,
 "The Quebec-Maine
 Border Earthquake,
 15 June, 1973", Cana-
 dian Jour. of Earth
 Sci., V. 12, No. 11,
 1975.

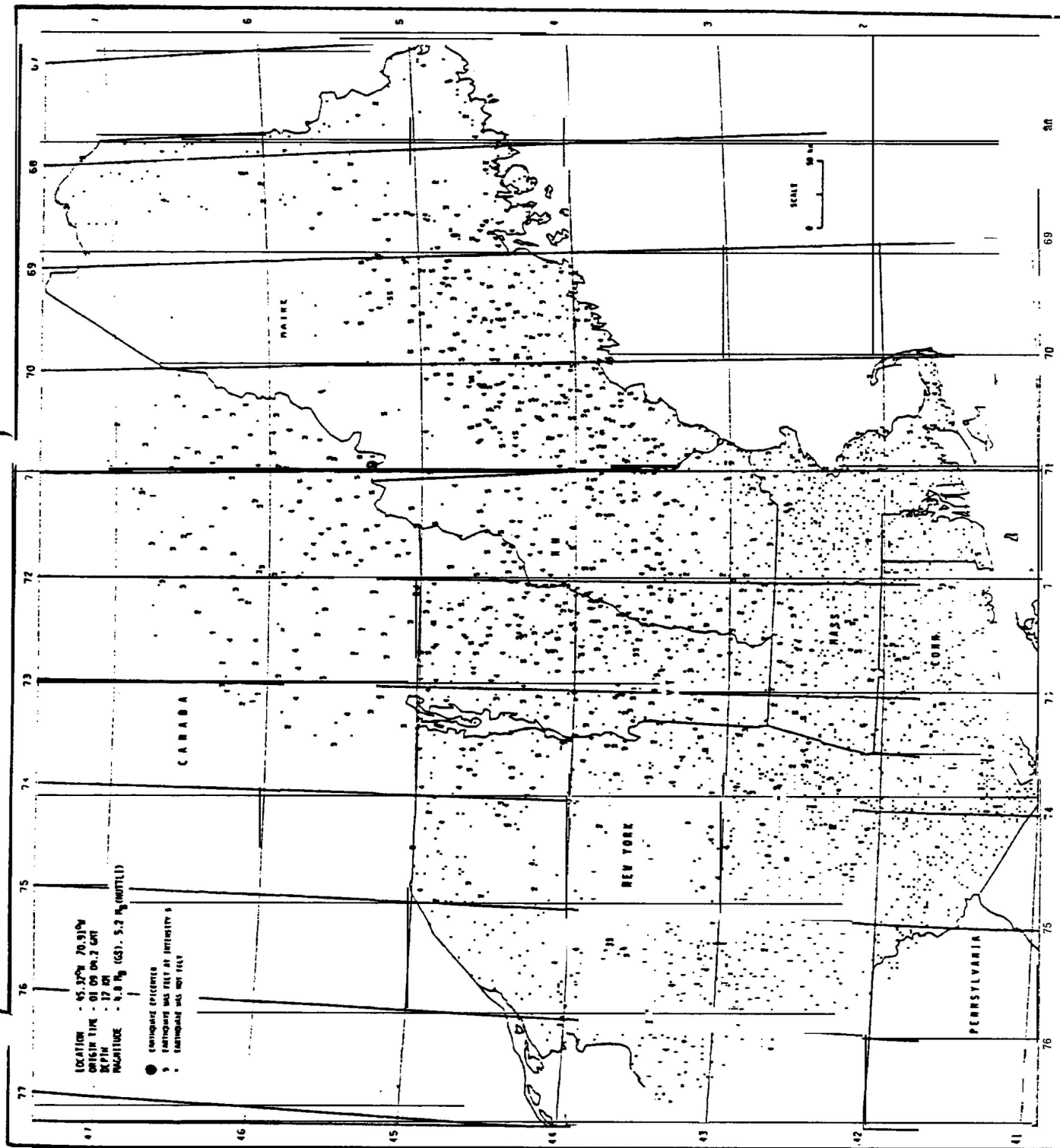
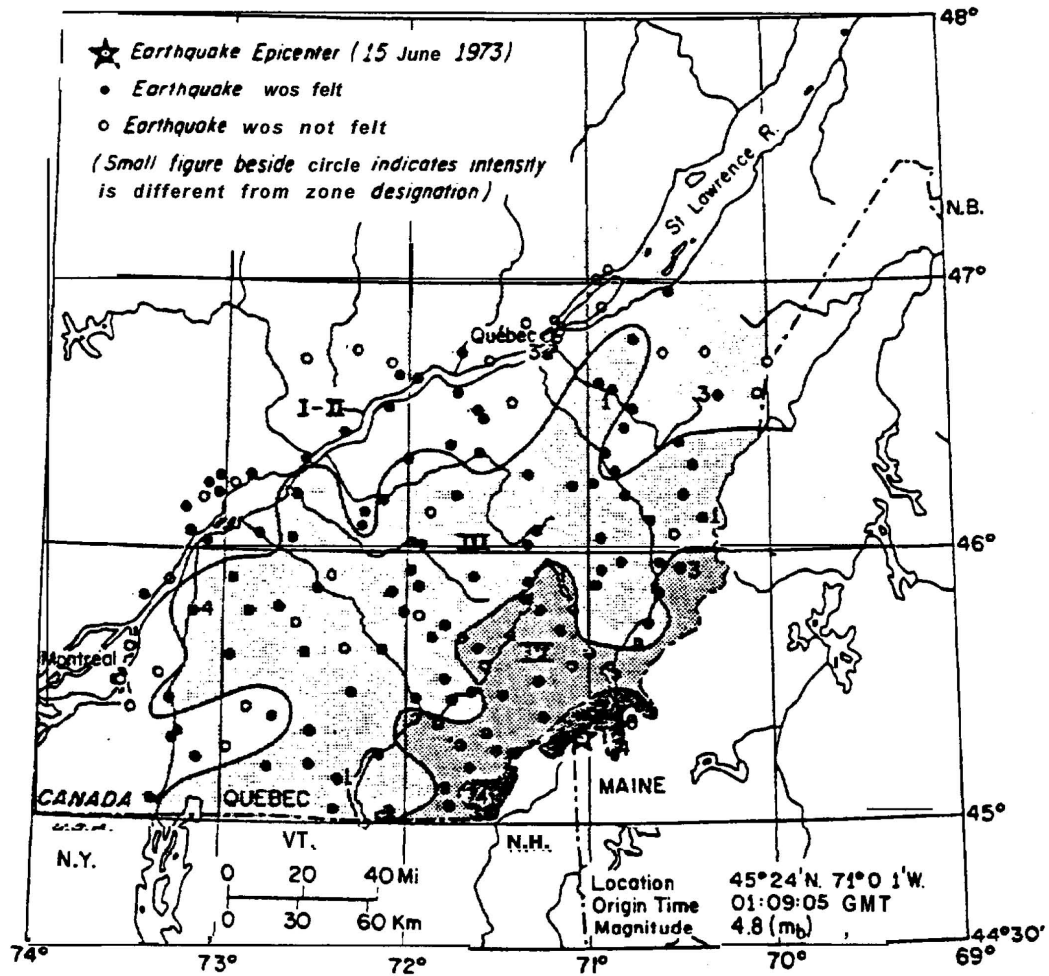


Figure 2.5.2A-41a



Wetmiller, R. J., "The Quebec-Maine Border Earthquake, 15 June, 1973", Canadian Jour. of Earth Sci., V. 12, no. 11, 1975.