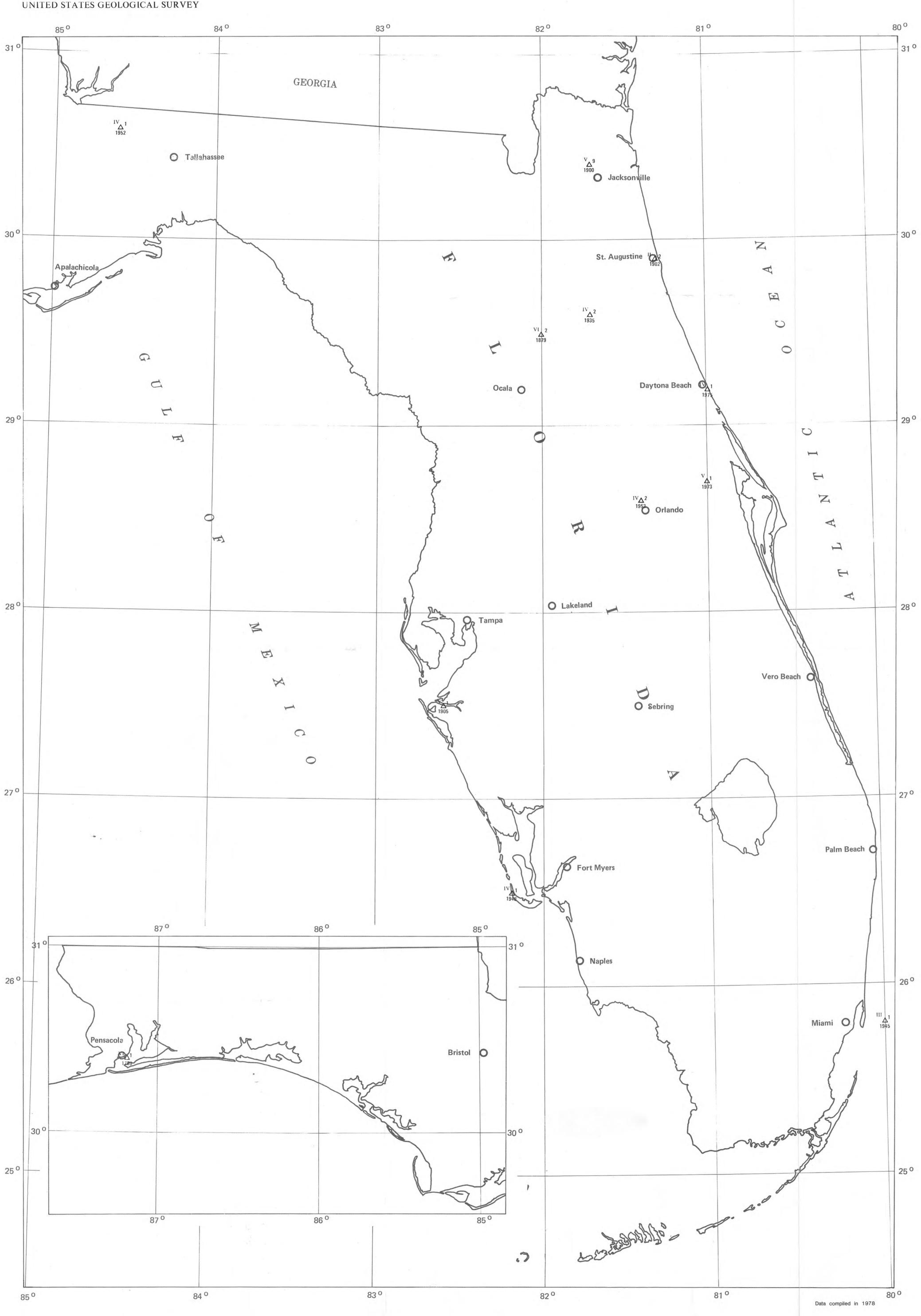
DEPARTMENT OF THE INTERIOR



The earthquake data shown on this map and listed in table 1 are a list of earthquakes that were originally used in preparing the Seismic Risk Studies in the United States (Algermissen, 1969) which have been recompiled and updated through 1977. The data have been reexamined and intensities assigned where none had been assigned before. Other intensity values were updated from new and additional data sources that were not available at the time of original compilation. Some epicenters were relocated on the basis of new information. The data shown in table 1 are estimates of the most accurate hypocenter, magnitude, and intensity of each earthquake, on the basis of historical and current information. Known or suspected explosions are listed in table 1 but are not plotted on the seismicity map.

The data in table 1 were used to compile the seismicity map. The latitude and longitude were rounded to the nearest tenth of a degree and sorted so that all identical locations were grouped together and counted. A triangle represents the epicenter plotted to a tenth of a degree. The number of earthquakes at each location is shown on the map by the number to the right of the triangle. A Roman numeral to the left of a triangle is the maximum Modified Mercalli intensity (Wood and Neumann, 1931) of all earthquakes located at that geographic position. The absence of an intensity value indicates that no intensities have been assigned to earthquakes at that location. A year shown below a triangle is the latest year for which the maximum intensity was recorded.

The data are listed chronologically in table 1 in the following categories: date, origin time, N. latitude, W. longitude, depth, hypocenter quality and referenced data sources, magnitude, and intensity (Modified Mercalli) and intensity source references. Table 1 has some basic limitations in terms of the size (magnitude or intensity) of the earthquakes listed. Prior to 1965 all recorded felt earthquakes are listed, after 1965 only published earthquakes having magnitudes above the 2.5-3.0 range are listed; the lower magnitude levels apply mostly to the eastern United States. The low magnitude events located in recent years with dense seismograph networks have not been included.

- 1. Leaders (..) indicate information not available. 2. Latitude and longitude are listed to a hundredth of a degree if they have been published with

b. Determination of noninstrumental epicenters from felt data are estimated to be accurate within the ranges of latitude and longitude listed below; each range is letter coded as indicated: • F 0.0°-0.5°

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MISCELLANEOUS FIELD STUDI MAP MF-10 SEISMICITY MAP OF FLORI

INTRODUCTION

EXPLANATION OF THE TABLES

Listed below is an explanation of the symbols and codes used in the tables:

that degree of accuracy, or greater; however, most historical events have been published only to the nearest degree or tenth of a degree and are therefore listed at this accuracy in table 1. An asterisk (*) to the right of the longitude indicates that the latitude 'and longitude were not given in the source reference, but were assigned by the compilers of the data file. An (x) to the right of the longitude indicates that the event is an explosion, a suspected explosion, or a nontectonic event; these have not been plotted on the map. 3. The letter code in the HYPOCENTER, QUAL column is defined below: a. Determination of instrumental hypocenters are estimated to be accurate within the ranges of

latitude and longitude listed below; each range is letter coded as indicated: A 0.0°-0.1° B 0.1°-0.2°

C 0.2°-0.5° D 0.5°-1.0° E 1.0° or larger

G 0.5°-1.0° H 1.0°-2.0°

I 2.0° or larger 4. The reference identification numbers in the HYPOCENTER, REF and INTENSITY, REF columns indicate the sources of the hypocenter and intensity. They are listed in numerical order in table 2. 5. The magnitudes listed under "USGS" are mb values (Gutenberg and Richter, 1956) published in the Preliminary Determination of Epicenters (PDE) by the National Earthquake Information Service, U. S. Geological Survey and predecessor organizations. Associated with the magnitude values listed

under "OTHER" are the source code and type. Type is defined by 1 = ML (Richter, 1958), 2 = mbLg (Nuttli, 1973), and 3 = MS (Bath, 1966). The source codes are listed below: BLA - Virginia Polytechnic Institute and State University, Blacksburg, Va. 6. An asterisk (*) in the INTENSITY, MM column indicates that the intensity was assigned by the compiler on the basis of the available data at the time the catalog was compiled.

REFERENCES

YEAR MONTH DAY H M S (N.) (W.) (KM) QUAL REF USGS OTHER MM H 1780 FEB 06 ••••• •• 30•4 87•2 * •• G 101 1879 JAN 13 04 45 .. 29.5 82.0 .. H 38 VI 04 55 .. 29.5 82.0 .. н 1879 JAN 13 38 1886 JAN 08 18 34 •• 30•4 81•7 •• H 103 1886 SEP 01 30.4 81.7 * .. H 69 1886 SEP 03 21 · · · 30.4 81.7 * .. H 84 1886 SEP 04 09 .. . 30.4 81.7 .. H 103 1886 SEP 05 30.4 81.7 * .. H 69 30.4 81.7 * .. H 1886 SEP 08 69 103 1886 SEP 09 18 47 •• 30•4 81•7 •• H 1893 JUN 21 07 07 •• 30•4 81•7 * •• H 84 1900 OCT 10 30.3 81.7 x ... H 84 1900 OCT 10 30.3 81.7 x .. H 84 TTT* 1900 OCT 10 30.3 81.7 x .. H III* 1900 OCT 10 30.3 81.7 x ... H 84 III* 1900 OCT 10 30.3 81.7 x ... H 84 III* 1900 OCT 10 30.3 81.7 x ... H 84 III* 1900 OCT 10 30.3 81.7 x .. H 84 III* 1900 OCT 10 30.3 81.7 x .. H 84 TTT* 1900 OCT 31 16 15 •• 30•4 81•7 •• H 38 84 1902 MAY 21 29.9 81.3 * .. H 1902 MAY 21 00 29.9 81.3 * .. H 84 TT 1905 SEP 04 09 · · 27.5 82.6 * · H 84 III 1930 JUL 19 18 53 .. 25.8 81.4 x .. H 03 V 1 1935 NOV 14 03 10 ·· 29.6 81.7 * ·· H 69 1935 NOV 14 03 30 ·· 29.6 81.7 * ·· H 69 •• •• •• 1940 DEC 27 01 28.0 82.5 x .. H 13 1942 JAN 19 19 26.5 81.0 x .. I 69 TV* 1942 JAN 19 26.5 81.0 x .. 69 1942 JAN 19 26.5 81.0 x .. 69 1942 JAN 19 ••••• •• 26.5 81.0 x •• 69 1942 JAN 19 26.5 81.0 x .. 69 1942 JAN 19 26.5 81.0 x .. 69 TV* 1942 JAN 19 26.5 81.0 x 1942 JAN 19 26.5 81.0 x .. 69 TV* 1942 JAN 19 26.5 81.0 x .. TV* 1942 JAN 19 26.5 81.0 x .. 69 TV* 1942 JAN 19 26.5 81.0 x .. 69 TV* 1942 JAN 19 26.5 81.0 x .. 69 TV* 1942 JAN 19 26.5 81.0 x .. 69 1942 JAN 19 26.5 81.0 x .. 69 1942 JAN 19 26.5 81.0 x .. 69 TV* 1942 JAN 19 26.5 81.0 x .. 69 TV* 1942 JAN 19 26.5 81.0 x IV* 1942 JAN 19 26.5 81.0 x .. I TV* 1942 JAN 19 26.5 81.0 x .. I 69 1942 JAN 19 26.5 81.0 x .. I 69 TV* 1945 DEC 22 16 25 .. 25.8 80.0 * .. H 18 III* 1948 NOV 08 17 44 .. 26.5 82.2 * .. H 21 TV* 1952 NOV 18 20 12 · · 30.6 84.6 · · H 103 · · · · 1953 MAR 26 28.6 81.4 .. H 103 1953 MAR 26 28.6 81.4 .. H 103 IV*

Table 1.--Chronological listing of Earthquakes for the State of Florida

DATE ORIGIN TIME (UTC) LAT. LONG. DEPTH <u>HYPOCENTER</u> <u>MAGNITUDE</u>

Table 2.--List of data sources

1973 OCT 27 06 21 07.5 28.7 81.0 .. F 46 V

1973 DEC 05 11 30 .. 30.5 86.5 x .. I 46 III*

1975 DEC 04 11 57 .. 29.2 81.0 * .. I .48 .. 2.9BLA 2 IV

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100 MILES

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SEISMICITY MAP OF FLORIDA

SCALE 1:1 000 000

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C. W. Stover, B.G. Reagor, and S. T. Algermissen

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