



The latitude and longitude coordinates of each epicenter were rounded to the nearest tenth of a degree and sorted so that all identical locations were grouped and counted. These locations are represented on the map by a triangle. The number of earthquakes at each location is shown on the map by the arabic number to the right of the triangle. A Roman numeral to the left of a triangle is the maximum Modified Mercalli intensity (Woodworth and Neumann, 1937) assigned to earthquakes at that geographic location. The absence of an intensity value indicates that no intensities have been assigned to earthquakes at that location. The year shown below each triangle is the latest year for which the maximum intensity was recorded.

## EXPLANATION OF THE TABLE

The data in table 1 are listed chronologically in the following categories: date, origin time in Coordinated Universal Time (UTC), N. latitude, W. longitude, depth, hypocenter quality and reference, magnitude, intensity (modified Mercalli), and intensity (Richter). The data are listed in the order in which they were received. If there was not enough information was available to assign an intensity or magnitude, then the limitations in terms of the size (magnitude or intensity) of the earthquakes listed. All earthquakes or those with computed magnitudes greater than 2.5, are listed. If no hypocenter was determined, then the hypocenter published, if it was included in the earthquake list. The low-magnitude events located in recent years with data from dense seismograph networks have not been included.

Listed below is an explanation of the symbols and codes used in table 1:

- Leaders (...) indicate information not available.
- Latitude and longitude are listed to a hundredth of a degree if they have been published with that degree of accuracy. If not, most likely the epicenter has been assigned locations based on felt or damage information and are listed in table only to the nearest degree of longitude. 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 a explosion, a suspected explosion, a rockburst, or some other nontectonic event; these have not been plotted on the map. A question mark (?) to the right of the longitude indicates that published descriptions of the event are inconclusive and it may or may not be an earthquake.
3. The letter code in the HYPOCENTER, QUAL column is defined below:
- Determination of the epicenter location and its estimate to be accurate within the ranges of latitude and longitude (in decimal degrees) 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 |
- b. Determinations of noninstrumental epicenters from felt data are estimated to be accurate within the ranges of latitude and longitude (in decimal degrees) listed below; each range is letter coded as indicated:
- |   |               |
|---|---------------|
| F | 0.0-0.5       |
| 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 data. They are listed in numerical order in the list of data sources.
5. The following abbreviations are used in the Preliminary Determination of Epicenters (PDE) Ms (Both, 1966) volumes published by the U.S. Geological Survey:
- MS (Both, 1966) volumes published by the U.S. Geological Survey and PDEs are by the National Earthquake Information Center, U.S. Geological Survey, and predecessors or immediate successors. The PDEs and PDEs are listed in the source code and type. Type is defined by MS (Both, 1966) and PDEs (MS, 1966) as follows:
- MS (Both, 1966) or Gutenberg, 1956) (Nuttall, 1955) and UNK (Unknown).
- Mn (MS (Both, 1966) or Gutenberg, 1956) (Nuttall, 1955) and UNK (Unknown).
- Magnitudes computed solely from epicentral intensity have not been included. Moment magnitudes computed from surface wave data are included. Magnitudes computed using the formula by Hanks and Kanamori (1979). The source codes are listed below:
- |     |   |
|-----|---|
| ATL | - Georgia Institute of Technology, Atlanta, Ga.   |
| BA  | - Virginia Polytechnic Institute and State University, Blacksburg, Va.  |
| BOE | - Boese, W. M. and Gordon, D. W., 1984, U.S. Geological Survey, Miscellaneous Field Studies Map MF-1659 Pamphlet, 39 p. |
| GB  | - Bullinger, G., 1979, Seismological Society of America Bulletin, v. 69, no. 1, p. 45-63.                               |
| GS  | - National Earthquake Information Center, U.S. Geological Survey (and predecessor organizations), Colorado.             |
| JLM | - Jones, F. B., Long, L. T., and Moore, J. H., 1977, Seismological Society of America Bulletin, v. 87, no. 1, p. 1-13.  |
| TER | - Center for Earthquake Research and Information, Memphis State University, Memphis, Tenn.                              |
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.
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## MODIFIED MERCALLI INTENSITY SCALE OF 1931

Adapted from Sieberg's Mercalli-Cancani scale,  
modified and condensed (Wood and Neumann, 1931)

1. Not felt - or, except rarely under especially favorable circumstances. Under certain conditions, at and outside the boundary of the area in which a great shock is felt: sometimes birds, animals, reported uneasy or disturbed; sometimes dizziness or nausea experienced; sometimes trees, structures, liquids, bodies of water, may sway--doors may swing, very slowly.

- [illegible]

Panic general. Creaked ground conspicuously. Damage considerable in (masonry) structures built especially to withstand earthquakes; threw out of plumb some wood-frame houses built especially to withstand earthquakes; great in substations (masonry) buildings, some collapse in large part; or wholly shifted frame buildings off foundations, racked frames, serious to reservoirs; underground pipes sometimes broken.

Table 1.—Chronological listing of earthquakes for the state of Georgia

AR AT	M E	ORIGIN TIME		LAT.	LONG.	DEPTH (KM)	HYPOCENTER		MAGNITUDE		INTENSITY MM REF	
		H M	S (UTC)				USGS (mb)	OTHER	MOMENT (M)			
26	OCT	15	00	32.0 N	81.1 W *	H	84					
72	JUN	17	20 00	33.1 N	83.3 W	G	38				F 84	
75	JUN	20	00 00	33.1 N	83.3 W	H	86				V 38	
75	NOV	02	05 55	33.8 N	83.3 W	H	86				III 86	
75	NOV	02	05 55	33.8 N	83.3 W	G	38				VI 38	
Northern Georgia: Felt from Spartsburg and Columbia, South Carolina to Atlanta and Macon, Georgia; Felt from Gainesville, Augustus, Georgia. Felt area was estimated at 25,000 sq km. There were several aftershocks.												
84	MAR	31	10 00	33.1 N	83.3 W	H	86				III 86	
85	OCT	17	22 30	33.0 N	83.1 W	H	86				IV 86	
85	JAN	24	01 11 30	32.5 N	81.1 W	G	38				VI 38	
Georgia-South Carolina region. Felt at Tybee Island and Savannah, Georgia. Felt area was estimated at 10,000 sq km.												
89	MAR	08	10 00	34.9 N	85.0 W * *	H	84				V 84	
12	JUN	20	00 00	32.0 N	81.0 W	H	38				V 38	
12	OCT	23	01 15	32.7 N	83.5 W	H	84				V 84	
13	MAR	13	05 00	34.5 N	85.0 W	I	103				IV 103	
13	MAR	05	20 00	33.5 N	83.5 W	G	38				VI 38	
Near Atlanta, Georgia. The earthquake was felt in parts of Alabama, Georgia, and Tennessee. Felt area was estimated at 50,000 sq km.												
14	MAR	05	21 00	33.5 N	83.5 W	F	289				F 289	
18	MAY	23	10 15	30.8 N	88.0 W	J	69				III 11	
18	JUN	09	11 30	33.2 N	83.2 W	H	86				IV 86	
83	JUL	29	03 30	33.4 N	82.0 W	x	H	16			III 16	
88	APR	08	17 30	31.5 N	83.5 W	H	86				III 16	
83	OCT	08	06 01 43	33.9 N	82.5 W	C	110		3.2mJL	JLM	III 16	
14	FEB	17	09 10 00	34.7 N	85.0 W	D	283		3.3mJL	JLM	III 16	
14	FEB	18	09 31 10.4	34.655N	85.392W	O1A	349	4.4	4.0mJL	TEC	V 35	
14	MAR	07	18 02 58.6	33.724N	82.391W	O05	C	349	4.4	3.3mJL	JLM	V 35
14	MAR	13	00 12 17.5	33.193N	83.309W	O01	C	349	4.4	3.9mJL	JLM	V 35
14	MAR	13	00 12 17.5	33.193N	83.309W	O01	C	349	4.4	3.9mJL	JLM	V 35
14	MAR	22	25 55 33.3	33.2 N	83.2 W	C	115		3.9mJL	JLM	V 35	
15	NOV	08	12 58 01.8	33.2 N	83.3 W	C	115		3.3mJL	JLM	V 35	
15	NOV	08	13 04 11.5	33.2 N	83.2 W	C	115				V 35	
15	NOV	05	17 17.5	33.9 N	82.5 W	H	86				F 86	
15	MAY	09		33.95 N	82.58 W	B	164		3.3mJL	ATL	F 86	
15	MAY	18		33.95 N	82.58 W *	F	164		3.5mJL	ATL	F 164	
15	NOV	04	18 58 23	33.2 N	83.2 W	C	115				V 35	
15	NOV	08	01 52	33.9 N	82.5 W	C	115				V 35	
1	APR	16	07 31	33.9 N	82.5 W	B	110				V 35	
1	OCT	08	13 36	33.9 N	82.5 W	B	110				V 35	
2	AUG	08	08 11.1	33.980N	82.534W	O04	B	350	4.3	4.1mJL	TEC	V 47
5	APR	01	21 09	33.2 N	83.2 W	D	203		3.9mJL	JLM	V 47	
6	FEB	04	19 53 53.8	34.971N	84.702W	O1A	A	349	3.6mJL	DG	VI	
Near Concordia, Tennessee in the Lake Okeechobee Dam area. A 4-year old cement block building and a												
6	DEC	27	06 57 15.2	32.668N	82.584W	O1A	B	349	3.7mJL	BLA	V 49	
6	MAY	02	01 46 11.8	34.107N	82.735W	O1B	B	339	2.8mJL	GS	V 49	
8	JUN	05	21 36 59.3	33.524N	82.680W	O03	B	350	2.9mJL	TEC	V 49	
8	SEP	10	19 49 46.4	34.122N	82.947W	xO13	C	339	2.5mJL	GS	V 49	
1	APR	04	05 10 39.3	33.254N	84.711W	O03	B	339	3.0mJL	ATL	V 562	
1	APR	04	05 10 39.3	33.254N	84.711W	O03	B	339	3.0mJL	ATL	V 562	
2	FEB	23	09 19 09.7	34.61 N	85.46 W	O00	B	350	2.5mJL	ATL	V 360	
2	MAY	05	11 01 02.6	32.71 N	83.47 W	O00	B	350	2.7mJL	ATL	V 360	
2	MAY	05	11 01 02.6	32.71 N	83.47 W	O00	B	350	2.7mJL	ATL	V 360	
2	MAY	05	11 01 02.6	32.71 N	83.47 W	O00	B	350	2.7mJL	ATL	V 360	
2	OCT	31	03 07 36.7	32.67 N	83.47 W	O00	B	350	3.0mJL	ATL	V 350	
2	OCT	31	03 12 12.2	32.64 N	83.47 W	O00	B	350	3.1mJL	ATL	V 350	
2	DEC	07	00 19 25.6	32.71 N	83.47 W	O00	B	350	2.7mJL	ATL	V 360	
2	DEC	08	23 36 36.2	32.72 N	83.46 W	O03	B	350	2.5mJL	ATL	V 360	
2	DEC	11	00 22 22.4	32.71 N	83.47 W	O00	B	350	2.5mJL	ATL	V 360	
2	DEC	11	00 25 68.3	32.85 N	83.53 W	O00	B	350	3.0mJL	ATL	V 360	
2	DEC	11	03 47 28.1	32.71 N	83.47 W	O00	B	350	2.6mJL	ATL	V 360	
2	DEC	13	01 19 18.9	32.71 N	83.47 W	O00	B	350	2.7mJL	ATL	V 360	
2	DEC	13	22 57 18.6	32.71 N	83.47 W	O00	B	350	2.5mJL	ATL	V 360	
2	DEC	13	22 58 16.4	32.71 N	83.47 W	O00	B	350	2.6mJL	ATL	V 360	
2	DEC	20	20 29 49.8	32.71 N	83.47 W	O00	B	350	2.6mJL	ATL	III 350	
2	DEC	20	20 29 49.8	32.71 N	83.47 W	O00	B	350	2.6mJL	ATL	III 350	
2	DEC	21	08 01 59.5	32.71 N	83.47 W	O00	B	350	2.7mJL	ATL	III 350	
2	DEC	23	11 05 11.3	32.71 N	83.47 W	O00	B	350	2.6mJL	ATL	III 350	
2	DEC	23	11 05 11.3	32.71 N	83.47 W	O00	B	350	2.6mJL	ATL	III 350	
3	JAN	26	14 07 44.8	32.728N	83.375W	O05	B	360	3.5mJL	GS	III 360	
3	DEC	31	06 31 12.1	32.559N	84.899W	O05	B	360	2.6mJL	TEC	IV 360	
3	DEC	31	17 12 27.2	32.658N	84.917W	O05	B	360	2.6mJL	TEC	IV 360	
4	JUN	18	06 05 05.3	33.851N	83.651W	O12	A	370	4.5mJL	ATL	VI 360	
4	OCT	09	11 54 26.2	34.775N	85.193W	O15	A	370	4.0mJL	GS	4.2	
5	DEC	20	15 15 06.3	34.917N	84.769W	O18	A	371	2.6mJL	TEC	IV 562	
5	DEC	28	04 05 57.9	33.296N	83.245W	O01	B	562	2.4mJL	TEC	IV 562	
6	JUL	13	02 06 06.8	33.350N	83.837W	O12	A	370	4.6mJL	TEC	VI 562	
6	JUL	11	14 26 14.8	34.937N	84.987W	O13	A	562	3.8mJL	GS	VI 562	
Near Cohutta, Georgia. Felt over an area of 13,800 sq km of Georgia, North Carolina, and Tennessee.												
7	NOV	04	20 36 45.7	34.697N	85.265W	O13	A	577	2.8mJL	TEC	IV 577	
7	NOV	04	20 36 45.7	34.697N	85.265W	O13	A	577	2.8mJL	TEC	IV 577	
7	DEC	24	22 40 44.2	34.154N	82.723W	O07	A	577	3.0mJL	TEC	IV 577	

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