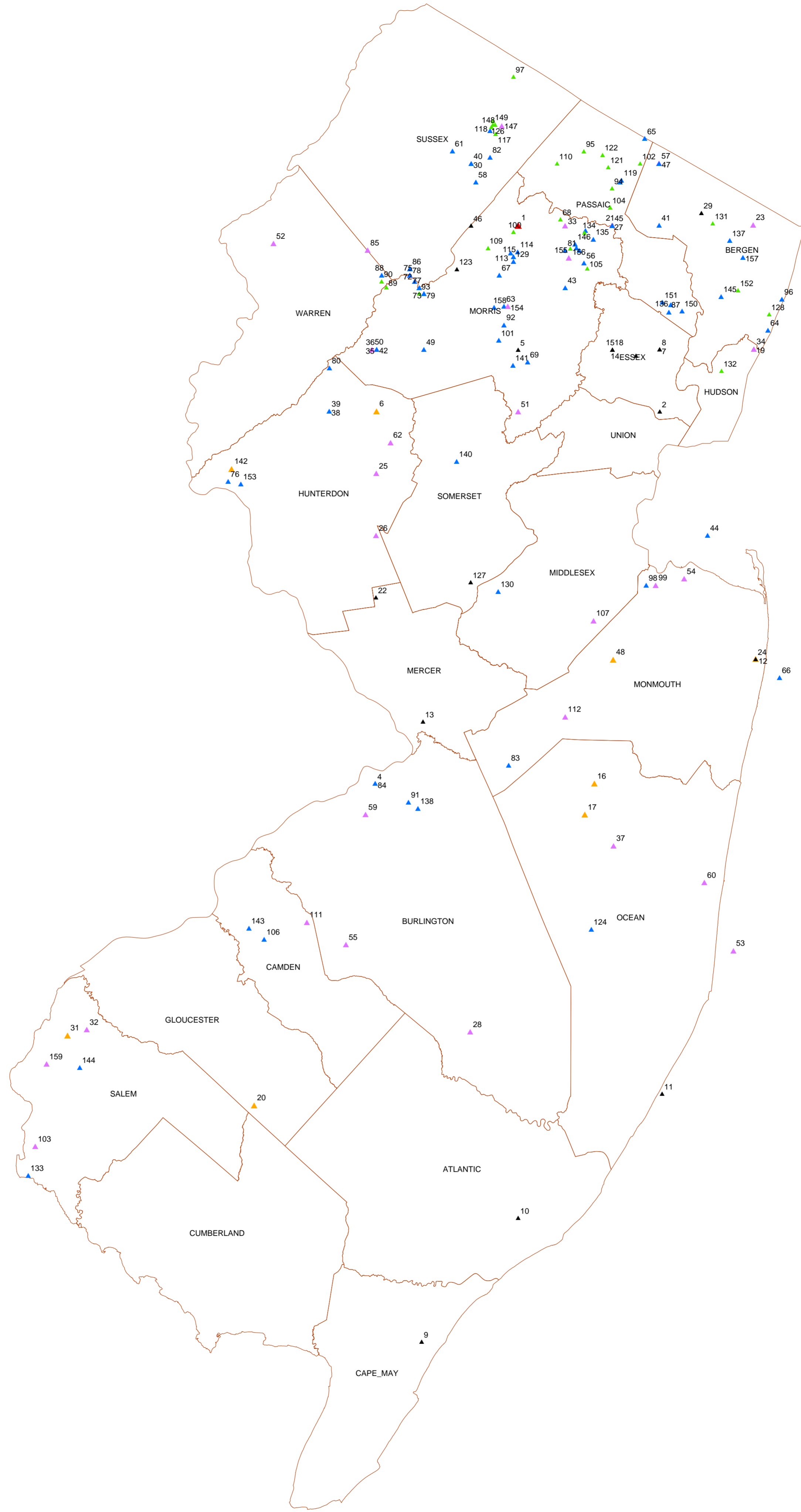


# Earthquakes Epicentered in New Jersey



0 2.5 5 10 15 20 Miles

## Explanation

### MAGNITUDES

- ▲ 0.0 - 0.3
- ▲ 0.4 - 1.3
- ▲ 1.4 - 2.3
- ▲ 2.4 - 3.3
- ▲ 3.4 - 4.3
- ▲ 4.4 - 5.3

□ Counties

## EARTHQUAKES EPICENTERED IN NEW JERSEY

ID	NORTHING	EASTING	QUAD	DATE	TIME	LAT_N	LO_N	W	DEPTH (KM)	MAGNITUDES	LOCATION	COMMENTS	DATA SOURCE
1	789196	492125	Franklin, NJ	11/30/1783	3:50	41.000	74.500	0.00		5.3	West of New York City	2 Foreshocks (11/24 and 11/30) and 1 aftershock (11/30)	LCSN, Stover, NESN
2	680047	575301	Elizabeth, NJ	3/5/1861	17:00	40.700	74.200	0.00		0.0	Newark, NJ		NEIC
3	712791	561345	Caldwell, NJ	1/25/1841	5:30	40.790	74.250	0.00		0.0	West Orange, NJ		NEIC, NESN
4	461482	408207	Bristol, PA	9/10/1877	14:59	40.100	74.800	0.00		0.0	Burlington, NJ		NEIC
5	716335	492125	Mendham, NJ	8/10/1880	17:15	40.800	74.500	0.00		0.0	Near Morristown, NJ	1 aftershock 9/1/1880.	NEIC
6	680047	408949	Califon NJ	09/01/1895	11:09	40.700	74.800	0.00		4.1	Near High Bridge, NJ	Location determined by fire.	LCSN, Eppley, NESN, Smith, Coffman
7	716477	575177	Orange, NJ	5/27/1902	0:00	40.800	74.200	0.00		0.0	Bayonne-Wayne, NJ		NEIC, NESN
8	716477	575177	Orange, NJ	8/11/1902	0:00	40.800	74.200	0.00		0.0	Bayonne-Wayne, NJ		NEIC, NESN
9	133598	435450	Pleasantville, NJ	4/23/1910	0:00	39.200	74.700	0.00		0.0	Near Atlantic City, NJ		NEIC, NESN, Eppley
10	206377	492125	Beach Haven, NJ	11/6/1912	18:40	39.400	74.500	0.00		0.0	Near Long Beach, NJ		NEIC
11	279361	576654	Frankford Pa-NJ	8/5/1919	5:00	39.600	74.200	0.00		0.0	Cinnaminson, NJ		NEIC
12	534586	631578	Long Branch NJ	6/1/1927	12:20	40.300	74.000	0.00		3.9	Near Asbury Park, NJ	High intensity in Asbury Park.	LCSN, Stover, Smith, Eppley, NESN
13	497829	436262	Trenton E, NJ	1/25/1933	2:00	40.200	74.700	0.00		0.0	Near Trenton, NJ		NEIC, Eppley, Coffman
14	716398	547493	Caldwell, NJ	9/30/1937	22:08	40.800	74.300	0.00		0.0	Verona, NJ		NEIC, NESN
15	716398	547493	Caldwell, NJ	5/16/1938	19:25	40.800	74.300	0.00		0.0	Verona, NJ		NEIC, NESN
16	461381	536881	Lakehurst NJ	8/23/1938	3:36	40.100	74.340	13.80		3.8	NE of New Egypt, NJ		Eppley, Coffman, NESN
17	443159	531315	Lakehurst NJ	8/23/1938	5:04	40.050	74.360	20.70		4.0	Freehold, NJ	4 aftershocks felt.	NESN
18	716398	547493	Weehawken, NJ	12/6/1938	19:38	40.800	74.300	0.00		0.0	Verona, NJ		NEIC, NESN, Smith
19	716730	630545	Weehawken, NJ	9/13/1939	1:22	40.800	74.000	0.00		0.0	Union City, NJ		NEIC, NESN, Smith
20	272410	337110	Newfield NJ	11/15/1939	2:53	39.580	75.050	3.00		3.4	Salem County, NJ		NESN
21	789260	547326	Wanaque NJ	4/1/1947	13:25	41.000	74.300	0.00		2.7	Pompton Lakes NJ		NESN
22	570762	408577	Hopewell, NJ	10/16/1949	23:33	40.400	74.800	0.00		0.0	Hopewell, NJ		NEIC
23	789592	630128	Park Ridge NJ-NY	8/17/1953	4:22	41.000	74.000	0.00		3.2	Bergen County, NJ		NESN
24	534586	631578	Long Branch, NJ	3/31/1954	21:25	40.300	74.000	0.00		0.0	Long Branch, NJ		NEIC
25	643618	408825	Flemington NJ	3/23/1957	19:02	40.600	74.800	0.00		2.9	Schooley's Mountain, NJ	Walls cracked, dishes broke.	NESN, Stover, Coffman Eppley
26	607190	408701	Flemington, NJ	12/27/1961	17:06	40.500	74.800	0.00		2.7	5 km W of Flemington, NJ		NEIC, NESN, Eppley, Coffman
27	789260	547326	Wanaque, NJ	10/13/1962	0:00	41.000	74.300	0.00		0.0	Pompton Lakes, NJ	1 aftershock 12/20/1962.	NEIC, NESN
28	315659	463989	Jenkins NJ	12/10/1968	9:12	39.700	74.600	0.00		2.7	SE of Camden, NJ		NESN
29	796723	599735	Franklin, NJ	4/25/1969	0:14	41.020	74.110	25.00		0.0	Near Sussex, NJ		NEIC
30	825644	464566	Franklin, NJ	10/6/1969	0:00	41.100	74.600	0.00		0.0	Ogdensburg, NJ		NEIC
31	313387	227609	Penns Grove NJ-Del	2/28/1973	8:21	39.690	75.440	11.90		3.5	E. OF Wilmington, DE		NESN
32	316914	238902	Penns Grove NJ-Del	7/10/1973	4:38	39.700	75.400	0.00		2.6	E. OF Wilmington, DE		NESN
33	789212	519726	Newfoundland NJ	3/11/1976	21:07	41.000	74.400	1.00		2.8	Pompton Lakes, NJ	1 aftershock, some damage.	LCSN, NEIC, Stover, NESN
34	716730	630545	Weehawken NJ-NY	4/13/1976	15:39	40.800	74.000	0.00		3.1	Near Ridgefield, NJ	The shock felt widely.	LCSN, NEIC, Stover, NESN
35	716477	409073	Hackettstown	12/5/1976	13:00	40.800	74.800	0.00		0.0			SRA
36	716477	409073	Hackettstown NJ	12/5/1976	16:32	40.800	74.800	3.40		1.8	Schooley's Mountain, NJ	1 aftershock 12/07/1976.	NESN
37	424978	548152	Lakehurst NJ	1/21/1977	20:50	40.000	74.300	6.00		2.7	Lakehurst, NJ		LCSN, NESN
38	680158	381223	High Bridge NJ	6/10/1977	12:48	40.700	74.900	6.00		1.1	High Bridge, NJ		LCSN, NESN
39	680158	381223	High Bridge NJ	7/2/1977	11:13	40.700	74.900	7.30		2.3	Hampton, NJ		NESN
40	825644	464566	Franklin NJ	10/27/1977	9:22	41.100	74.600	6.00		1.5	Sparta, NJ		LCSN
41	789339	574927	Ramsey NJ-NY	11/27/1977	13:57	41.000	74.200	5.00		1.8	Oakland, NJ		LCSN
42	716477	409073	Hackettstown NJ	12/23/1977	4:55	40.800	74.800	0.00		2.3	Schooley's Mountain, NJ	5 foreshocks 12/4 to 12/8 and 5 aftershocks 12/23	NESN
43	752781	519767	Boonton NJ	2/15/1978	5:28	40.900	74.400	6.00		1.6	Boonton, NJ		LCSN, NESN
44	607300	603358	The Narrows NY	4/3/1978	23:57	40.500	74.100	0.00		2.0	Off Sandy Hook		NESN
45	789260	547326	Wanaque NJ	5/18/1978	1:29	41.000	74.300	6.00		1.5	Bloomington, NJ		NESN
46	789212	464524	Franklin	6/16/1978	4:49	41.000	74.600	0.00		0.0	Sparta, NJ		NESN
47	825770	574802	Ramsey NJ-NY	6/30/1978	20:13	41.100	74.200	5.00		2.9	Mahwah-Oakland, NJ	1 aftershock on same day.	NESN
48	534256	547906	Freehold NJ	1/30/1979	16:30	40.300	74.300	5.00		3.5	Cheesequake, NJ		NESN
49	716398	436757	Chester NJ	2/2/1979	2:26	40.800	74.700	0.00		1.9	Chester, NJ		NESN
50	716487	406305	Chester NJ	2/23/1979	10:23	40.800	74.810	13.00		2.9	Chester, NJ		NEIC
51	679905	492125	Bernardsville NJ	3/10/1979	4:49	40.700	74.500	3.00		3.1	Bernardsville, NJ		LCSN
52	778694	348537	Portland NJ-Pa	3/25/1980	18:54	40.970	75.020	5.00		2.8	Hainesburg, NJ		LCSN, NESN
53	363312	618498	Barnegat Light NJ	4/5/1980	11:49	39.830	74.050	6.20		2.9	S. of Seaside, NJ		NESN
54	581741	589555	Keyport NJ-NY	8/2/1980	17:21	40.430	74.150	7.60		2.8	Keyport, NJ		NESN
55	366839	391041	Medford Lakes NJ	8/30/1980	9:19	39.840	74.860	2.00		3.0	Medford Lakes, NJ		NESN, NEIC
56	767369	530801	Pompton Plains NJ	3/19/1981	8:51	40.940	74.360	9.60		2.0	Boonton, NJ		NESN
57	825770	574802	Ramsey NJ-NY	5/18/1981	7:22	41.100	74.200	8.70		2.1	Ramsey, NJ		NESN
58	814711	467311	Franklin NJ	6/21/1981	5:04	41.070	74.590	8.50		1.8	Denville, NJ		NESN
59	443289	402547	Bristol Pa-NJ	4/12/1982	22:14	40.050	74.820	7.30		2.4	Mt Holly, NJ		NEIC, NESN
60	403299	601473	Seaside Park NJ	7/29/1982	4:37	39.940	74.110	10.00		2.4	Seaside Heights, NJ		NESN
61	832945	453554	Newton East NJ	9/16/1982	6:36	41.120	74.640	0.50		1.6	Franklin, NJ		NESN
62	661806	417211	Califon NJ	2/19/1983	5:45	40.650	74.770	6.10		2.7	Oldwick, NJ		NESN
63	741838	483829	Mendham NJ	6/1/1983	9:50	40.870	74.530	5.10		1.5	Dover, NJ		NESN
64	727708	638784	Central Park NY-NJ	9/6/1983	10:44	40.830	73.970	7.10		1.5	Fort Lee, NJ		NESN
65	840316	566489	Sloatsburg NY-NJ	9/15/1983	23:17	41.140	74.230	9.10		1.5	Ringwood, NJ		NESN
66	523741	645591	Long Branch NJ	3/12/1984	6:34	40.270	73.950	10.00		2.0	Asbury Park, NJ		NESN
67	760054	481071	Dover NJ	5/13/1984	3:18	40.920	74.540	5.60		2.1	Mount Hope, NJ		NESN
68	792852	516962	Newfoundland NJ	6/3/1984	7:04	41.010	74.410	0.20		1.3	Kinnelon, NJ		NESN
69	709050	497663	Morristown NJ	6/6/1984	17:44	40.780	74.480	7.00		1.7	Near Morristown, NJ		NESN
70	752835	434076	Stanhope NJ	8/2/1984	1:03	40.900	74.710	5.70		1.7	Mount Olive, NJ		NESN
71	760135	428567	Stanhope NJ	8/12/1984	21:03	40.920	74.730	3.10		2.4	Byram, NJ		NESN
72	756485	431321	Stanhope NJ	8/12/1984	21:12	40.910	74.720	4.66		2.1	Byram, NJ		NESN
73	749186	436832	Stanhope NJ	10/25/1984	7:18	40.890	74.700	7.10		2.0	Near Mt. Olive, NJ		NESN
74	763778	428576	Stanhope NJ	12/3/1984	1:52	40.930	74.730	1.00		1.5	Byram, NJ		NESN
75	760135	428567	Stanhope NJ	12/13/1984	20:13	40.920	74.730	3.70		1.7	Byram, NJ		NESN
76	638969	321879	Frenchtown NJ-PA	12/14/1984	1:00	40.586	75.113	1.45		1.7	N of Milford, NJ		NEIC, Stover
77	752835	434076	Stanhope NJ	12/15/1984	14:02	40.900	74.710	7.80		1.8	Byram, NJ		NESN
78	763778	428576	Stanhope NJ	12/17/1984	6:52	40.930	74.730	4.80		1.6	Byram, NJ		NESN
79	749186	436832	Stanhope NJ	2/8/1986	9:18	40.890	74.700	5.70		1.7	Flanders, NJ		NESN
80	705659	381340	Washington NJ	2/23/1986	4:03	40.770	74.900	1.10		1.8	Port Murray, NJ		NESN
81	774640	519742	Boonton NJ	6/29/1986	6:32	40.960	74.400	4.10		1.5	Kinnelon, NJ		NESN
82	829277	475592	Franklin NJ	7/15/1986	4:22	41.110	74.560	5.60					

# Earthquakes Epicentered In New Jersey

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

#### *Citation\_Information:*

#### *Originator:*

New Jersey Department of Environmental Protection NJDEP, New Jersey Geological Survey NJGS

*Publication\_Date:* 20041217

*Title:* Earthquakes Epicentered In New Jersey

*Edition:* 20090702

*Geospatial\_Data\_Presentation\_Form:* vector digital data

#### *Series\_Information:*

*Series\_Name:* Digital Geodata Series

*Issue\_Identification:* DGS04-1

#### *Publication\_Information:*

*Publication\_Place:* Trenton, New Jersey

*Publisher:* New Jersey Geological Survey

*Online\_Linkage:* <<http://www.state.nj.us/dep/njgs/geodata/dgs04-1.htm>>

### *Description:*

#### *Abstract:*

The New Jersey Geological Survey Digital Geodata Series DGS04-1 dataset shows earthquakes that had epicenters in New Jersey. This data has 159 earthquakes with epicenters in New Jersey. Most are minor with magnitudes ranging from 0.4 to 5.3 and depths up to 25 km below sea level. Earthquakes with magnitude of 0 (zero) implies that the magnitude is unknown.

Following earthquakes added since Feb. 18, 2009 version:

1) 2.25km ESE of Pennsville, NJ on 7-1-2009, 9:44 am (EST), Magnitude 2.8, Depth 5 km

#### *Purpose:*

To provide information on earthquakes which had epicenters in New Jersey.

#### *Supplemental\_Information:*

Various Data Sources and References:

Coffman, J. L. and von Hake, C. A., ed., 1973, Earthquake history of the United States: U.

S. Department of Commerce, National Oceanic and Atmospheric Administration  
Publication 41-1, Revised edition (through 1970).

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America Bulletin, v. 25 p.1-32.

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Publication of the Dominion Observatory, Ottawa, v.24, no. 5.

Smith, W.E.T., 1966, Earthquakes of eastern Canada and adjacent areas, 1928-1959:  
Publication of the Dominion Observatory, Ottawa, v.32, no. 3.

Stover, C.W., and Coffman, J.L., 1993, Seismicity of the United States, 1568-1989  
(Revised) U.S. Geological Survey Professional Paper 1527.

Stover, C.W., Reagor, G., and Algermissen, S.T., 1984, United States earthquake data file:  
U.S. Geological Survey, Open-file Report 84-225, 123p.

Wood, H. O, and Neumann, Frank, 1931, Modified Mercalli scale of 1931: Seismological  
Society of America Bulletin, v.21 no. 4, p. 277-283.

LCSN - Lamont Doherty Cooperative Seismographic Network.  
(<http://www.ldeo.columbia.edu/LCSN/>)

NEIC- National Earthquake Information Center.(<http://earthquake.usgs.gov/regional/neic/index.php>)

NESN - New England Seismic Network. Weston Observatory. (<http://www.bc.edu/research/westonobservatory/>)

PDE (Preliminary Determination of Epicenters) -USGS/NEIC PDE Monthly list.  
(<ftp://hazards.cr.usgs.gov/pde/manuscript/>)

*Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 20090702

*Time\_of\_Day:* unknown

*Currentness\_Reference:* publication date

*Status:*

*Progress:* In work

*Maintenance\_and\_Update\_Frequency:* As needed

*Spatial\_Domain:*

*Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -75.546017

*East\_Bounding\_Coordinate:* -73.936949

*North\_Bounding\_Coordinate:* 41.240002

*South\_Bounding\_Coordinate:* 39.195749

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* None

*Theme\_Keyword:* Earthquake

*Theme\_Keyword:* Magnitude

*Theme\_Keyword:* Depth

*Theme\_Keyword:* Epicenter

*Theme\_Keyword:* Foreshock

*Theme\_Keyword:* Aftershock

*Theme\_Keyword:* Fault

*Theme\_Keyword:* Seismic

*Theme\_Keyword:* Seismograph

*Theme\_Keyword:* Intensity

*Theme\_Keyword:* Seismological

*Theme\_Keyword:* Seismicity

*Theme:*

*Theme\_Keyword\_Thesaurus:* ISO 19115 Topic Category

*Theme\_Keyword:* geoscientificInformation

*Place:*

*Place\_Keyword\_Thesaurus:* USGS Place Names Gazetteer

*Place\_Keyword:* New Jersey

*Place\_Keyword:* State of New Jersey

*Stratum:*

*Stratum\_Keyword\_Thesaurus:* none

*Stratum\_Keyword:* Underground

*Access\_Constraints:* None

*Use\_Constraints:*

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*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Suhas Ghatge

*Contact\_Organization:*

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*Address\_Type:* mailing and physical address

*Address:* 29 Arctic Parkway P.O. Box 427

*City:* Trenton

*State\_or\_Province:* New Jersey

*Postal\_Code:* 08625

*Country:* USA

*Contact\_Voice\_Telephone:* (609) 292-1185

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*Hours\_of\_Service:* 8-5

*Browse\_Graphic:*

*Browse\_Graphic\_File\_Name:* <<http://www.state.nj.us/dep/njgs/geodata/dgs04-1.htm#image>>

*Browse\_Graphic\_File\_Description:* image

*Browse\_Graphic\_File\_Type:* GIF

*Security\_Information:*

*Security\_Classification\_System:* none

*Security\_Classification:* Unclassified

*Security\_Handling\_Description:* none

*Native\_Data\_Set\_Environment:*

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 1; ESRI ArcCatalog 9.0.0.535

*Cross\_Reference:*

*Citation\_Information:*

*Originator:* New Jersey Geological Survey

*Publication\_Date:* 20041217

*Title:* Earthquake Epicenters in New Jersey

*Geospatial\_Data\_Presentation\_Form:* tabular digital data

*Series\_Information:*

*Series\_Name:* Digital Geodata Series

*Issue\_Identification:* DGS04-1

*Publication\_Information:*

*Publication\_Place:* Trenton, NJ

*Publisher:* NJGS

*Other\_Citation\_Details:* Updated 20090702

*Online\_Linkage:* <<http://www.state.nj.us/dep/njgs/geodata/dgs04-1.htm>>

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* unknown

*Logical\_Consistency\_Report:* unknown

*Completeness\_Report:*

Some earthquake locations were in Latitude and Longitude degrees and minutes, rounded to the nearest minute and converted to decimal degrees. Others were in decimal degree and they were converted to NJ State Plane coordinate system. Earthquakes with magnitude of 0 (zero) implies that the magnitude is unknown.

*Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy\_Report:*

Instrumental epicenter accuracy is estimated to be within 0.0 degrees to 0.5 degrees and non-instrumental accuracy ranges from 0 degrees to 2.0 degrees (Stover, 1984 and NEIC).

*Lineage:*

*Process\_Step:*

*Process\_Description:*

Data on earthquake epicenters were gathered from the regional seismic network at Lamont Doherty Observatory, Bulletins of the Northeast Seismic Network, New England Seismic Network, information from the U.S. Geological Survey and other books and reports. A table was created with this information in Microsoft Excel software. The tabular information was then imported into ESRI ArcMap software and converted into a shapefile.

Most of the earthquakes in this database were recorded with seismic equipment. The older earthquakes, included were not recorded by seismic equipment but were documented by NEIC, and the USGS. Instrumental epicenter accuracy is estimated to be within 0.0 degrees to 0.5 degrees and non-instrumental accuracy ranges from 0 degrees to 2.0 degrees (Stover, 1984 and NEIC). Earthquakes with magnitude of 0 (zero) implies that the magnitude is unknown.

*Process\_Date:* 20040322

*Process\_Contact:*

*Contact\_Information:*

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*Contact\_Person:* Ted Pallis

*Contact\_Organization:*

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Geological Survey

*Contact\_Position:* Geographic Information Systems Specialist

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*City:* Trenton

*State\_or\_Province:* New Jersey

*Postal\_Code:* 08625

*Country:* USA

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*Hours\_of\_Service:* 8-5

*Process\_Step:*

*Process\_Description:*

Following earthquakes added since Feb. 18, 2009 version:

1) 2.25km ESE of Pennsville, NJ on 7-1-2009, 9:44 am (EST), Magnitude 2.8, Depth 5 km

*Process\_Date:* 20090702

*Cloud\_Cover:* 0

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*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* Entity point

*Point\_and\_Vector\_Object\_Count:* 159

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*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Planar:*

*Grid\_Coordinate\_System:*

*Grid\_Coordinate\_System\_Name:* State Plane Coordinate System 1983

*State\_Plane\_Coordinate\_System:*

*SPCS\_Zone\_Identifier:* 2900

*Transverse\_Mercator:*

*Scale\_Factor\_at\_Central\_Meridian:* 0.999900

*Longitude\_of\_Central\_Meridian:* -74.500000

*Latitude\_of\_Projection\_Origin:* 38.833333

*False\_Easting:* 492125.000000

*False\_Northing:* 0.000000

*Planar\_Coordinate\_Information:*

*Planar\_Coordinate\_Encoding\_Method:* coordinate pair

*Coordinate\_Representation:*

*Abscissa\_Resolution:* 0.002048

*Ordinate\_Resolution:* 0.002048

*Planar\_Distance\_Units:* survey feet

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1983

*Ellipsoid\_Name:* Geodetic Reference System 80

*Semi-major\_Axis:* 6378137.000000

*Denominator\_of\_Flattening\_Ratio:* 298.257222

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*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* njeearthquakes

*Entity\_Type\_Definition:* Earthquake Epicenters of New Jersey

*Entity\_Type\_Definition\_Source:* New Jersey Geological Survey

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* ID

*Attribute\_Definition:* Unique ID for each earthquake.

*Attribute\_Definition\_Source:* New Jersey Geological Survey

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* NORTHING

*Attribute\_Definition:* In NJ State Plane feet.

*Attribute\_Definition\_Source:* New Jersey Geological Survey

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* EASTING

*Attribute\_Definition:* In NJ State Plane feet.

*Attribute\_Definition\_Source:* New Jersey Geological Survey

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* QUAD

*Attribute\_Definition:*

USGS 7.5 minute quadrangle the earthquake epicenter was located.

*Attribute\_Definition\_Source:* New Jersey Geological Survey

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* DATE\_

*Attribute\_Definition:* Date the earthquake was recorded.

*Attribute\_Definition\_Source:* NJDEP/NJGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* TIME

*Attribute\_Definition:* Time earthquake was recorded in UTC or GMT (-5 hours for EST)

*Attribute\_Definition\_Source:* NJDEP/NJGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* LAT\_N

*Attribute\_Definition:* Latitude of the earthquake in decimal degrees.

*Attribute\_Definition\_Source:* NJDEP/NJGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* LON\_W

*Attribute\_Definition:* Longitude of the earthquake in decimal degrees.

*Attribute\_Definition\_Source:* NJDEP/NJGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* DEPTH\_KM

*Attribute\_Definition:* Depth of the earthquake in kilometers.

*Attribute\_Definition\_Source:* NJDEP/NJGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* MAGNITUDES

*Attribute\_Definition:*

Magnitude is a logarithmic measure of the size of the earthquake related to the energy released as seismic waves at the focus of an earthquake.

*Attribute\_Definition\_Source:* USGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* LOCATION

*Attribute\_Definition:* Location of the earthquake.

*Attribute\_Definition\_Source:* NJDEP/NJGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* COMMENTS

*Attribute\_Definition:* Information about the earthquake if available.

*Attribute\_Definition\_Source:* NJDEP/NJGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* unique input

*Attribute:*

*Attribute\_Label:* DATA\_SOURC

*Attribute\_Definition:* Source of the data.

*Attribute\_Definition\_Source:* NJDEP/NJGS

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Source of the data. See "Supplemental Information" for definitions

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*Distribution\_Information:*

*Distributor:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Suhas Ghatge

*Contact\_Organization:*

New Jersey Department of Environmental Protection, New Jersey Geological Survey

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* 29 Arctic Parkway

*City:* Trenton

*State\_or\_Province:* New Jersey

*Postal\_Code:* 08625

*Country:* USA

*Contact\_Voice\_Telephone:* (609) 292-1185

*Contact\_Facsimile\_Telephone:* (609) 633-1004

*Contact\_Electronic\_Mail\_Address:* suhas.ghatge@dep.state.nj.us

*Hours\_of\_Service:* 8-5

*Resource\_Description:* Downloadable Data

*Distribution\_Liability:*

This organization provides the geographic data as is. This organization makes no guarantee or warranty concerning the accuracy of information contained in the geographic data. Also, this organization makes no warranty either expressed or implied, regarding the condition of the product or its fitness for any particular purpose. The burden for determining fitness for use lies entirely with the user. Although these files have been processed successfully on computers at this organization, no warranty is made by this organization regarding the use of these data on any other system, nor does the fact of distribution constitute or imply any such warranty.

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Format\_Name:* AVSHP

*Format\_Version\_Number:* 9x

*File-Decompression\_Technique:* WinZip

*Transfer\_Size:* 0.004

*Digital\_Transfer\_Option:*

*Online\_Option:*

*Computer\_Contact\_Information:*

*Network\_Address:*

*Network\_Resource\_Name:* <<http://www.state.nj.us/dep/njgs/geodata/dgs04-1.htm>>

*Offline\_Option:*

*Offline\_Media:* none

*Recording\_Format:* none

*Fees:* None

*Ordering\_Instructions:*

Available by downloading from New Jersey Geological Survey website.

*Technical\_Prerequisites:*

Internet access and web browser for viewing in iMap and software capable of viewing ESRI shapefiles for the downloadable shapefile.

*Available\_Time\_Period:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 20090702

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*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20090702

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Person\_Primary:*

*Contact\_Person:* Suhas Ghatge

*Contact\_Organization:*

New Jersey Department of Environmental Protection (NJDEP), New Jersey Geological Survey (NJGS)

*Contact\_Position:* Research Scientist

*Contact\_Address:*

*Address\_Type:* mailing address

*Address:* 29 Arctic Parkway P.O box 427

*City:* Trenton

*State\_or\_Province:* New Jersey

*Postal\_Code:* 08625

*Country:* USA

*Contact\_Voice\_Telephone:* (609) 984-6587

*Contact\_Facsimile\_Telephone:* (609) 633-1004

*Contact\_Electronic\_Mail\_Address:* suhas.ghatge@dep.state.nj.us

*Hours\_of\_Service:* 8-4

*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata

*Metadata\_Standard\_Version:* FGDC-STD-001-1998

*Metadata\_Time\_Convention:* local time

*Metadata\_Access\_Constraints:* None

*Metadata\_Use\_Constraints:* None

*Metadata\_Security\_Information:*

*Metadata\_Security\_Classification\_System:* none

*Metadata\_Security\_Classification:* Unclassified

*Metadata\_Security\_Handling\_Description:* none

*Metadata\_Extensions:*

*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name:* ESRI Metadata Profile