APPENDIX A

Date	Time (Military)[1]	Latitude	Longitude	Depth (km)	Magnitude	Magnitude Type	Number of Stations	Azimuth Gap	Closest Station (km)	Root Mean Square	Intensity	Nearest Town	Source[2]
1774/02/21	14:00:00	37.20000	-77.40000		4.5	Mb					VI	Petersburg, VA	Bollinger (1969, 1975); Coffman et al (1982); Hopper and Bollinger (1971); Lasch (1977); MacCarthy (1957); MacCarthy (1964); NCEER; Stover and Coffman(1993); Tarr and Wheeler (2006)
1774/02/22	PM	37.20000	-77.40000		3.3	MAG					IV	Charlottesville, VA	Hopper and Bollinger (1971); NCEER
1774/02/23	PM	37.30000	-76.70000								IV	Williamsburg, VA	Bollinger (1975); Hopper and Bollinger (1971)
1775/03/16	14:15:00	37.70000	-78.80000		3.3	MAG					IV	Union Hill, VA	Bollinger (1975); Hopper and Bollinger (1971); NCEER
1775/08/30	2:00:00	37.70000	-78.80000									Nelson County, VA	Bollinger (1975); Hopper and Bollinger (1971)
1789/11/19	6:00:00	38.30000	-77.50000									Fredericksburg, VA	Bollinger (1969); Hopper and Bollinger (1971)
1791/01/13	4:00:00	37.70000	-78.80000		3.3	MAG					IV	Union Hill, VA	Bollinger (1975); Hopper and Bollinger (1971); NCEER
1791/01/15	5:00:00	37.50000	-77.50000		3.3	Mb					IV	Richmond, VA	Bollinger (1969, 1975); MacCarthy (1964); NCEER
1795/02/11	20:00:00	38.00000	-78.50000									Richmond/Fredericksburg, VA	Bollinger (1969, 1975); MacCarthy (1964)
1802/08/23	5:00:00	37.40000	-79.10000		3.5	MAG					V	Richmond, VA	Bollinger (1969, 1975), Hopper and Bollinger (1971); MacCarthy (1964); NCEER
1807/05/01	4:00:00	37.40000	-79.10000		4.2	Mb					V	VA-NC	Bollinger (1969); Coffman et al (1982); Hopper and Bollinger (1971); MacCarthy (1964); NCEER
1812/02/02	9:30:00	37.60000	-77.40000		3.3	MAG					IV	Richmond, VA	Bollinger (1969, 1975); MacCarthy (1964); NCEER
1812/04/22	4:00:00	37.50000	-77.50000		3.3	MAG					IV	Richmond, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); NCEER
1816/12/31	13:00:00	36.80000	-76.30000								III-V	Norfolk, VA	Bollinger (1969); Hopper and Bollinger (1971); MacCarthy (1964)
1826/08/09	21:00:00	37.60000	-77.40000								II-III	Richmond, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964)
1826/08/10	12:00:00	37.60000	-77.40000								II-III	Richmond, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964)
1828/03/09	22:00:00	37.00000	-80.00000		5.0	Mb					V	SW VA	Bollinger (1969); Coffman et al (1982); Heck (1928); Hopper and Bollinger (1971); MacCarthy (1957); NCEER; Stover and Coffman (1993); Tarr and Wheeler (2006)
1833/08/27	6:15:00	37.70000	-78.00000		5.0	Mb_lg					VI	Richmond-Charlottesville, VA	Bollinger (1969, 1975); Coffman et at (1982);

													Heck (1928); Hopper and Bollinger (1971); MacCarthy (1957, 1964); Stover and Coffman (1993); Tarr and Wheeler (2006)
1850/10/17	AM	37.30000	-78.40000		3.3	MAG					IV	Farmville, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); NCEER
1852/04/29	12:45:00	36.60000	-81.60000		4.9	Mb					VI	VA/NC/TN	Bollinger (1969); Coffman et at (1982); Heck (1928); Hopper and Bollinger (1971); MacCarthy (1957, 1964); NCEER; Stover and Coffman (1993); Tarr and Wheeler (2006); Winkler (1982)
1852/05/03	3:00:00	36.70000	-82.00000									Abingdon, VA	Bollinger (1969); MacCarthy (1964)
1852/09/18	3:00:00	36.70000	-82.00000									Abingdon, VA	Bollinger (1969); MacCarthy (1964)
1852/11/02	18:35:00	37.60000	-78.60000		4.3	Mb_lg					VI	Richmond, Petersburg, Scottsville	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); Stover and Coffman (1993); Tarr and Wheeler (2006); Winkler (1982)
1853/01/30	AM	38.80000	-78.50000									Woodstock, VA	Bollinger (1969); Hopper and Bollinger (1971); MacCarthy (1964); Winkler (1982)
1853/05/02	9:20:00	38.50000	-79.50000		4.6	Mb					VI	VA/WVA border	Bollinger (1969, 1975); Coffman et at (1982); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Tarr and Wheeler (2006)
1854/11/22	16:00:00	37.10000	-81.50000								III	Tazewell County	Bollinger (1969); Bollinger and Hopper (1971); MacCarthy (1964)
1855/02/02	3:00:00	37.05600	-78.63800		4.0	Mb_lg					V	Charlotte, VA	Bollinger (1969); Coffman et at (1982); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1856/01/16	3:00:00	39.20000	-78.20000		3.3	MAG					IV	Winchester, VA	Bollinger (1969); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1856/03/21	9:00:00	37.70000	-78.80000								III	Amherst, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); Winkler (1982)
1859/03/22	Unknown	37.10000	-81.50000		3.1	MAG					IV	Jeffersonville, VA	Bollinger (1969); MacCarthy (1964); NCEER; Winkler (1982)
1872/03/01	PM	36.80000	-79.40000								III	Chatham, VA	Bollinger (1975); Hopper and Bollinger (1971); MacCarthy (1964); Winkler (1982)
1872/06/04	22:00:00	37.70000	-78.00000		3.7	MAG					IV	Chesterfield (Manchester, Ashland, Charlottesville), VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1873/10/03	7:45:00	37.18700	-78.20100		3.6	Mb					IV	Burkeville, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1875/03/10	12:00:00	37.70000	-78.00000								III	Issequena, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); Winkler (1982)
1875/12/22	23:45:00	37.68300	-78.34000		4.5	Mb_lg					VII	Arvonia, VA	Bollinger (1969, 1971, 1975, 1989); Bollinger and Hopper (1971); Bollinger and Sibol (1985); Coffman et at (1982); Heck (1928); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Oaks

													and Bollinger (1986); Stover and Coffman (1993); Tarr and Wheeler (2006); Winkler (1982)
1875/12/26	12:00:00	37.60000	-77.90000								III	Powhatan County, VA	Bollinger (1969, 1975); MacCarthy (1964)
1876/01/02	21:30:00	37.60000	-77.90000								IV	Powhatan County, VA	Bollinger (1975); Bollinger and Hopper (1971)
1876/12/21	10:30:00	36.90000	-81.10000									Wytheville, VA	Bollinger (1969); Hopper and Bollinger (1971); MacCarthy (1964); Winkler (1982)
1876/12/22	23:45:00	37.40000	-77.50000		3.3	MAG					IV	Chesterfield, VA	Bollinger (1969, 1975); NCEER
1876/12/23	3:00:00	37.40000	-77.50000		3.3	MAG					IV	Chesterfield, VA	MacCarthy (1964); NCEER; Winkler (1982)
1878/01/02	19:00:00	37.80000	-77.80000								III	Louisa and Hanover Counties	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964)
1882/04/02	21:00:00	38.60000	-78.60000									New Market, VA	MacCarthy (1964); Rockwood (1883); Winkler (1982)
1884/03/29	20:00:00	37.50000	-75.70000									Accomac County, VA	Bollinger (1969); Hopper and Bollinger (1971); MacCarthy (1964); Winkler (1982)
1885/01/02	21:16:00	39.20000	-77.50000		3.9	MAG					V	Chantilly, VA	Coffman et at (1982); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1885/01/02	23:46:00	39.20000	-77.50000									Leesburg, VA	Bollinger (1969); Hopper and Bollinger (1971); MacCarthy (1964)
1885/02/02	7:10:00	36.90000	-81.10000		3.3	MAG					IV	Wytheville, VA	Bollinger (1969); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1885/10/09	23:35:00	37.70000	-78.80000		4.2	Mb					VI	Lynchburg/Staunton, VA	Bollinger (1969, 1975); Coffman et at (1982); Heck (1928); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Tarr and Wheeler (2006); Winkler (1982)
1897/05/03	12:18:00	37.13100	-80.57600		4.3	Mb					VII	Radford, VA	Bollinger (1969); Coffman et at (1982); Heck (1928); Hopper and Bollinger (1971); MacCarthy (1957, 1964); NCEER; Stover and Coffman (1993); Tarr and Wheeler (2006); Winkler (1982)
1897/05/31	13:58:00	37.32600	-80.73500		5.5	Mw					VIII	Pearisburg, VA	Bollinger (1969, 1971, 1973); Bollinger and Hopper (1971); Bollinger and Stover (1978); Coffman et at (1982); Heck (1928); Hopper and Bollinger (1971); Hough (2012); MacCarthy (1957, 1964); NCEER; Stover and Coffman (1993); Street (1979); Tarr and Wheeler (2006); Winkler (1982)
1897/06/28	11:00:00	37.04700	-80.77900		4.0	Mb_lg					V	Pulaski, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1897/09/03	AM	37.32600	-80.73500		3.1	MAG					IV	Pearisburg, VA	Hopper and Bollinger (1971); NCEER; Winkler (1982)
1897/09/04	6:00:00	36.94800	-81.08400									Wytheville, VA	Hopper and Bollinger (1971); MacCarthy (1964); Winkler (1982)
1897/10/21	22:20:00	37.41300	-79.14200		4.1	MAG					V	Lynchburg, VA	Bollinger (1969); Coffman et at (1982); Heck

													(1928); Hopper and Bollinger (1971); MacCarthy (1957, 1964); NCEER; Winkler (1982)
1897/11/27	15:56:00	37.75900	-77.47900		3.3	MAG					IV-V	Ashland, VA	Bollinger (1969, 1975); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1897/12/18	18:45:00	37.55300	-77.46000		4.0	Mb_lg					VI	Richmond, VA	Bollinger (1969, 1975); Coffman et at (1982); Hopper and Bollinger (1971); MacCarthy (1964); NCEER; Winkler (1982)
1898/02/05	15:00:00	37.04700	-81.77900		4.3	Mb_lg					VI	Pulaski-Wytheville, VA	Bollinger (1969); Coffman et at (1982); Hopper and Bollinger (1971); MacCarthy (1957, 1964); NCEER; Stover and Coffman (1993); Tarr and Wheeler (2006); Winkler (1982)
1898/02/05	21:00:00	37.10500	-80.68500									Dublin, VA	Coffman et at (1982); Hopper and Bollinger (1971); MacCarthy (1964); Winkler (1982)
1898/11/25	15:10:00	37.00000	-81.00000		4.6	Mb					V	Pulaski-Wytheville, VA	Bollinger (1969); Coffman et at (1982); Hopper and Bollinger (1971); MacCarthy (1957, 1964); NCEER; Stover and Coffman (1993); Tarr and Wheeler (2006); Winkler (1982)
1899/02/13	4:30:00	37.00000	-81.00000		4.7	Mb					V	Wytheville, VA	Bollinger (1969); Coffman et al (1982); Heck (1928); Hopper and Bollinger (1971); MacCarthy (1957, 1964); NCEER; Tarr and Wheeler (2006); Winkler (1982)
1899/03/03	AM	36.90000	-76.30000		3.3	MAG					IV	Norfolk, VA	Bollinger (1969); MacCarthy (1964); NCEER; Winkler (1982)
1902/05/17	23:00:00	37.30000	-80.60000		3.4	MAG					V	Pearisburg, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER; Winkler (1982)
1905/04/29	unknown	37.40000	-79.60000								III	Bedford, VA	Bollinger (1969, 1975); MacCarthy (1964); Winkler (1982)
1907/02/10	19:30:00	37.80000	-78.50000								III	Scottsville, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964)
1907/02/11	8:22:00	37.68300	-78.34000		4.0	MAG					VI	Dublin, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Coffman et al (1982); Heck (1928); Lasch (1977); MacCarthy (1964); NCEER; Tarr and Wheeler (2006); Winkler (1982)
1908/08/23	3:30:00	37.55300	-77.46000									Richmond, VA	Bollinger and Hopper (1972); MacCarthy (1964)
1908/08/23	4:30:00	37.55300	-77.46000		3.5	MAG					V	Richmond, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Coffman et al (1982); Heck (1928); MacCarthy (1964); NCEER; Winkler (1982)
1908/08/23	10:00:00	37.55300	-77.46000									Richmond, VA	Bollinger and Hopper (1972); MacCarthy (1964)
1908/08/23	14:30:00	37.55300	-77.46000									Richmond, VA	Bollinger and Hopper (1972); Coffman et at (1982); MacCarthy (1964)
1908/08/23	20:00:00	37.55300	-77.46000									Richmond, VA	Bollinger and Hopper (1972); MacCarthy (1964)
1909/04/02	2:25:00	39.18500	-78.16300		3.5	MAG					V-VI	Winchester, VA	Bollinger and Hopper (1972); MacCarthy (1965);

													NCEER
1910/02/08	9:00:00	38.64700	-78.67100		3.2	MAG					IV	New Market, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1910/02/08	9:05:00	38.64700	-78.67100									New Market, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); Winkler (1982)
1910/02/08	9:30:00	38.64700	-78.67100									New Market, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); Winkler (1982)
1910/05/08	16:10:00	37.68300	-78.34000		3.5	MAG					IV	Arvonia, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Coffman et al (1982); Heck (1928); Lasch (1977); MacCarthy (1964); NCEER; Winkler (1982)
1911/02/10	5:22:00	36.60000	-79.40000		3.3	MAG					IV	Danville, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1912/08/07	20:00:00	37.68300	-78.34000		3.0	MAG					IV	Arvonia, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964); NCEER; Winkler (1982)
1912/08/08	1:00:00	37.70000	-78.40000		3.3	MAG					IV	Arvonia, VA	NCEER
1915/01/14	4:20:00	36.60000	-82.20000		3.6	Mb					IV	Bristol, VA	Bollinger and Hopper (1972); MacCarthy (1964); NCEER; Winkler (1982)
1917/04/19	Unknown	37.00000	-81.00000									SW VA	Bollinger (1969); MacCarthy (1964); Winkler (1982)
1918/04/09	13:08:00	38.66500	-78.45900									Luray, VA	Bollinger (1969); MacCarthy (1964); Watson (1918)
1918/04/09	21:09:00	38.66500	-78.45900		4.6	ML					VI	Luray, VA	Bollinger (1969); Bollinger and Hopper (1972); Coffman et al (1982); Heck (1928); MacCarthy (1957, 1964); NCEER; Stover and Coffman (1993); Tarr and Wheeler (2006); Watson (1918); Winkler (1982)
1918/04/16	8:40:00	38.70000	-78.40000		3.2	MAG					IV	Luray, VA	Bollinger (1969); MacCarthy (1964); NCEER; Winkler (1982)
1918/04/19	11:55	36.84800	-76.28300								III	Norfolk, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); Winkler (1982)
1918/04/21	15:00:00	36.80000	-76.30000										Winkler (1982)
1919/09/05	21:46:00	38.80000	-78.20000		3.8	MAG					VI	Arco, VA	Bollinger (1969); Coffman et al (1982); Heck (1928); MacCarthy (1964); NCEER; Stover and Coffman (1993); Watson (1919); Winkler (1982)
1919/09/05	22:46:00	38.80000	-78.20000									Arco, VA	Bollinger (1969); MacCarthy (1964); Stover and Coffman (1993); Watson (1919)
1919/09/06	4:00:00	38.80000	-78.20000									Arco, VA	Bollinger (1969); MacCarthy (1964); Stover and Coffman (1993); Winkler (1982)
1920/07/24	PM?	38.70000	-78.40000		3.3	MAG					IV	Luray, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER; Winkler (1982)

1921/07/15	AM?	36.60000	-82.30000		2.8	MAG					VI	Mendota, VA	Bollinger (1969); Bollinger and Hopper (1972); Coffman et al (1982); Heck (1928); MacCarthy (1964); NCEER; Winkler (1982)
1921/08/07	1:30:00	37.70500	-78.29900		3.8	MAG					VI	New Canton, VA	Bollinger (1969); Bollinger and Hopper (1972); Coffman et al (1982); Heck (1928); Lasch (1977); MacCarthy (1964); NCEER; Winkler (1982)
1922/03/30	23:03:00	36.80000	-82.30000		3.3	MAG					IV		NCEER
1923/12/31	0:00:00	39.10000	-78.10000								IV-V	Clarke County, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964)
1924/01/04	19:00:00	39.10000	-78.10000		3.3	MAG					IV	Boyce, VA	NCEER
1924/11/13	5:30:00	36.60000	-82.20000		4.0	Mb					V	Bristol, VA	MacCarthy (1964); NCEER; Tarr and Wheeler (2006); Winkler (1982)
1924/12/25	23:30:00	37.30000	-79.90000		3.5	MAG					V	Roanoke, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Coffman et al (1982); MacCarthy (1964); NCEER; Winkler (1982)
1925/05/15	20:30:00	37.30000	-77.50000		3.5	MAG					V	Swift Creek, VA	Bollinger (1969, 1975); MacCarthy (1964); NCEER; Winkler (1982)
1925/07/14	16:20:00	37.60000	-77.50000		3.3	MAG					IV	Richmond, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); MacCarthy (1964); NCEER; Winkler (1982)
1927/06/10	2:16:00	38.00000	-79.00000		3.6	MAG					V	Charlottesville/Richmond, VA	Bollinger (1969); Bollinger and Hopper (1972); Coffman et al (1982); Heck (1928); Lasch (1977); MacCarthy (1964); NCEER; Winkler (1982)
1928/10/30	6:45:00	37.55300	-77.46000		3.4	MAG					IV	Richmond, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); MacCarthy (1964); NCEER; Winkler (1982)
1929/12/25	21:56:00	38.02900	-78.47600		3.6	MAG					VI	Charlottesville, VA	Bollinger (1969, 1975); Coffman et al (1982); Lasch (1977); MacCarthy (1964); NCEER; Stover and Coffman (1993); Winkler (1982)
1930/09/15	2:40:00	37.50000	-77.50000									Richmond, VA	Bollinger (1969, 1975); MacCarthy (1964)
1931/10/05	22:15:00	37.70000	-78.30000									New Canton, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964)
1932/01/04	23:05:00	37.70500	-78.29900		3.1	MAG					V	New Canton, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964); NCEER
1932/12/25	PM	37.30000	-77.40000									Petersburg, VA	Bollinger (1969, 1975); MacCarthy (1964)
1933/01/26	22:00:00	37.20000	-77.40000		2.4	MAG					IV	Petersburg, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1933/07/23	10:00:00	37.70000	-78.30000								III	New Canton, VA	Bollinger (1969, 1975); Lasch (1977); MacCarthy (1964)
1934/04/02	21:05:00	37.30000	-77.40000									Petersburg, VA	Bollinger (1969, 1975); MacCarthy (1964)
1935/02/10	18:45:00	37.20000	-77.40000		3.3	MAG					IV	Petersburg, VA	Bollinger (1969, 1975); MacCarthy (1964); NCEER
1936/04/09	7:42:00	38.10000	-78.50000								III	Charlottesville, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964)

1937/02/02	20:26:00	37.70000	-78.70000		3.6	MAG					IV	Albemarle County, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964); NCEER
1940/03/25	21:00:00	38.88100	-78.50500		3.2	MAG					V	Woodstock, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1940/03/25	22:28:00	38.88100	-78.50500		3.2	MAG					V	Woodstock, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1940/03/26	0:01:00	38.88100	-78.50500		3.5	MAG					V	Woodstock, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1940/03/26	3:28:00	38.88100	-78.50500		3.3	MAG					IV	Woodstock, VA	Bollinger and Hopper (1972); NCEER
1942/10/06	22:15:00	37.30200	-78.39100		3.3	MAG					III	Farmville, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964); NCEER
1945/10/10	15:43:00	37.60000	-78.50000									New Canton, VA	Bollinger (1969, 1975); Lasch (1977); MacCarthy (1964)
1945/10/12	15:00:00	37.50000	-78.50000		3.3	MAG					IV	Dillwyn, VA	Bollinger (1969, 1975); Lasch (1977); MacCarthy (1964); NCEER
1945/10/29	21:29:00	37.50000	-78.50000		2.9	MAG					IV	Dillwyn-New Canton, VA	Bollinger (1969, 1975); Lasch (1977); MacCarthy (1964); NCEER
1946/05/24	14:40:00	38.00000	-78.50000									Albemarle County, VA	Bollinger (1969, 1975); Lasch (1977); MacCarthy (1964)
1948/01/04	21:45:00	37.54200	-78.45700		3.3	MAG					IV	Dilwyn, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1948/01/04	22:20:00	37.54200	-78.45700		3.5	MAG					V	Dillwyn, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1948/01/04	23:00:00	37.54200	-78.45700		3.3	MAG					IV	Dillwyn, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1948/01/05	1:00:00	37.54200	-78.45700		3.3	MAG					IV	Dillwyn, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1948/03/26	18:48:00	38.10000	-78.50000									Charlottesville, VA	Bollinger (1969, 1975); Lasch (1977); MacCarthy (1964)
1949/05/08	6:01:00	37.55300	-77.46000		3.6	MAG					V	Richmond, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1949/09/17	4:30:00	36.75800	-83.02700		3.2	MAG					IV	Pennington Gap, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1950/11/26	2:45:00	37.54200	-78.45700		3.3	MAG					V	Dillwyn, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964); NCEER
1951/03/09	2:00:00	37.60000	-77.60000		3.5	MAG					V	Richmond, VA	Bollinger (1969, 1975); MacCarthy (1964); NCEER
1952/09/10	22:35:00	38.02900	-78.47600								IV	Charlottesville, VA	Bollinger (1975); Bollinger and Hopper (1972); MacCarthy (1964)
1952/09/10	22:15:00	38.02900	-78.47600									Charlottesville, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); Lasch (1977); MacCarthy (1964)
1953/02/07	2:05:00	37.70000	-78.10000		3.3	MAG					IV	Goochland County, VA	Bollinger (1969, 1975); Bollinger and Hopper

													(1972); MacCarthy (1964); NCEER
1955/01/06	15:30:00	36.59600	-82.18800		3.1	MAG					IV	Bristol, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1955/01/17	7:37:00	37.30200	-78.39100		3.3	MAG					IV	Farmville, VA	Bollinger (1969, 1975); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1955/09/28	2:01:00	36.60000	-81.30000		3.5	MAG					V	South Grayson County, VA	Bollinger (1969); Coffman et al (1982); MacCarthy (1957, 1964); NCEER
1958/10/22	22:29:47	37.20000	-81.90000	5.0	3.0	Mb_lg							NCEER; ISC
1959/04/23	15:58:00	37.39000	-80.68000	1.0	3.8	Mb_lg					VI	Giles County, VA	Bollinger (1969); Bollinger and Hopper (1972); Coffman et al (1982); ISC; MacCarthy (1964); NCEER; Stover and Coffman (1993)
1959/07/07	18:17:00	37.32600	-80.73500		3.1	MAG					IV	Pearisburg, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1959/08/21	0:15:00	37.32600	-80.73500		3.2	MAG					IV	Pearisburg, VA	Bollinger (1969); Bollinger and Hopper (1972); MacCarthy (1964); NCEER
1960/09/04	18:40:00	37.40000	-79.30000		3.3	MAG					IV	Boonsboro, VA	Bollinger (1969, 1975); NCEER
1963/01/17	6:40:27	37.29300	-80.05400		3.1	MAG					IV	Salem, VA	Bollinger (1975); Bollinger and Hopper (1972); NCEER
1963/01/17	9:26:51	37.29300	-80.05400		3.3	MAG					IV	Salem, VA	Bollinger and Hopper (1972); NCEER
1963/10/28	17:38:00	36.70000	-81.00000		3.7	MAG					V	Galax, VA	Bollinger (1969); Coffman et al (1982); NCEER
1963/10/28	20:57:00	36.70000	-81.00000		3.4	MAG					IV	Galax, VA	NCEER
1966/05/31	1:18:59	37.66000	-78.13000	2.0	3.7	Mb					V	Powhatan, VA	ANSS; Bollinger (1969, 1970, 1975); Bollinger and Hopper (1972); Coffman et al (1982); ISC-USGS; NCEER; Tarr and Wheeler (2006)
1968/03/08	0:38:16	37.28000	-80.77000	8.0	3.9	Mb	7				IV	Narrows, VA	ANSS; Bollinger (1968, 1969); Bollinger and Hopper (1972); ISC-USGS; NCEER
1969/12/11	18:44:37	37.84000	-77.67000	1.0	3.4	Mb					V	Richmond-Louisa, VA	Bollinger (1973, 1975); Bollinger and Hopper (1972); Coffman et al (1982); ISC; Lasch (1977); NCEER
1970/07/30	3:48:52	37.01200	-82.24800		3.8	Mb	9						ANSS; ISC
1970/07/30	10:15:16	37.01200	-82.24800		4.0	Mb	9						ANSS; ISC
1971/09/11	19:06:28	38.15000	-77.59000	5.0	3.5	ML				15.90	IV	Fredericksburg, VA	Bollinger (1971, 1975); NCEER
1971/09/11	19:09:23	38.10000	-77.40000		3.2	ML				15.90	IV	Fredericksburg, VA	Bollinger (1971); NCEER
1972/05/20	14:39:06	37.24100	-82.24100		3.0	Mb	12						ANSS; ISC; NCEER
1972/09/05	11:00:11	37.60000	-77.70000		3.4	Mb					IV	Richmond, VA	Ayers (1972); Bollinger (1975); NCEER
1973/04/09	18:11:00	37.30000	-77.70000		3.4	MAG					IV	Chesterfield, VA	Bollinger (1975); NCEER
1974/03/23	4:46:34	38.91700	-77.78000	2.0	2.5	Mb_lg							ANSS; ISC; NEIC-USGS
1974/05/30	16:28:37	37.38200	-80.41900	8.0	3.6	Mb_lg							ANSS; ISC; NEIC-USGS; NCEER
1974/11/07	16:31:05	37.75000	-78.20000		2.4	Mb_lg					IV	Columbia, VA	Lasch (1977); NCEER
1975/03/07	7:45:13	37.32000	-80.48000	5.0	3.0	Mb_lg					II		NCEER
1975/11/11	3:10:38	37.19300	-80.83900	15.0	3.2	Mb	6				IV		ANSS; ISC; NCEER; Stover and Coffman (1993)

1976/07/03	15:53:46	37.24850	-81.09750	5.0	2.1	Mb_lg	8	232	1.0	1.16			Bollinger and Wheeler (1988); ISC
1976/09/13	13:54:38	36.60400	-80.81000	9.0	3.3	Mb	7				VI		ANSS; ISC; NCEER; NEIC; Stover and Coffman (1993); Tarr and Wheeler (2006)
1977/02/27	15:05:35	37.89700	-78.62800	5.0	2.4	Mb	6				V	Carter's Bridge, VA	ANSS; ISC; Lasch (1977); NCEER; NEIC; USGS DYFI
1977/10/23	2:51:41	36.97200	-82.03800	5.0	2.8	ML	8	191	127.0	0.01			ANSS; USGS DYFI; VTSO SEUSSN-Bull1
1978/01/28	18:13:23	37.22800	-80.74700	4.5	1.6	Mc	6	243	11.0	0.10		Giles County, VA	ANSS; VTSO SEUSSN-Bull2
1978/03/17	13:26:35	36.75000	-80.73900	7.0	2.8	Mb	14	154	28.0	0.40	IV	Hillsville, VA	ANSS; ISC; NCEER; NEIC; VTSO SEUSSN-Bull2
1978/05/09	23:19:10	37.21300	-80.83000	26.2	0.3	Mc	6	268	12.0	0.10		Giles County, VA	ANSS; VTSO SEUSSN-Bull2
1978/05/25	3:30:25	37.00000	-80.79400	12.1	1.5	Mc	8	269	3.0	0.20		Pulaski, VA	ANSS; VTSO SEUSSN-Bull2
1978/06/22	1:42:29	36.80000	-82.36000	9.0	1.0	MLD	8	343		0.20		Russell County, VA	VTSO SEUSSN-Bull2
1978/07/28	3:39:41	37.33700	-80.69000	11.8	0.6	Mc	7	146	10.0	0.30			ANSS
1978/08/29	21:19:38	37.36200	-80.66800	8.4	0.5	Mc	6	158	12.0	0.10			ANSS
1978/10/29	19:22:43	38.01400	-78.08300	10.4	0.6	Mc	6	242	24.0	0.00			ANSS
1978/11/15	3:33:48	37.68100	-77.56100	13.4	1.6	Mc	8	196	50.0	0.20			ANSS
1979/11/05	22:04:51	37.42700	-78.22000	6.4	1.3	ML	16	103	28.0	0.20		Central Virginia	ANSS; VTSO SEUSSN-Bull5
1979/11/12	2:21:54	37.72400	-77.48000	4.3	1.2	ML	10	173	54.0	0.20		Central Virginia	ANSS; VTSO SEUSSN-Bull5
1980/01/06	8:50:57	36.69800	-81.47800	0.1	2.1	Mc	23	147	69.0	0.40			ANSS; VTSO SEUSSN-Bull6
1980/02/17	22:58:55	37.42800	-80.59300	14.6	0.6	Mc	14	198	22.0	0.20			ANSS; VTSO SEUSSN-Bull6
1980/04/25	22:59:55	37.77700	-77.58300	0.2	1.6	Mc	18	206	35.0	0.30			ANSS; VTSO SEUSSN-Bull6
1980/05/17	22:31:20	37.52900	-77.80300	2.5	0.9	Mc	8	242	40.0	0.30			ANSS; VTSO SEUSSN-Bull6
1980/05/18	17:33:55	37.97000	-78.06800	5.6	0.7	MLD							VTSO SEUSSN-Bull6
1980/08/04	5:13:33	38.07000	-77.76700	5.5	0.9	Mc	15	114	7.0	0.10			ANSS; VTSO SEUSSN-Bull7
1980/09/25	20:31:58	38.07200	-77.76900	3.8	1.9	Mc	12	116	6.0	0.20			ANSS; VTSO SEUSSN-Bull7
1980/09/26	12:04:16	38.09100	-77.73800	6.2	0.2	Mc	6	191	4.0	0.20			ANSS; VTSO SEUSSN-Bull7
1980/10/11	17:40:28	38.11900	-77.81100	2.4	1.1	Mc	6	166	6.0	0.10			ANSS
1980/10/13	20:20:05	37.08500	-80.21800	5.3	1.8	Mc	24	171	23.0	0.40			ANSS
1980/11/05	16:48:14	38.17800	-79.90200	3.8	2.8	ML	15	164	294.0		I	Bath County, VA	ANSS; ISC; NCEER; NEIC; VTSO SEUSSN-Bull7
1980/12/02	2:47:38	37.41400	-80.54600	13.1	0.5	Mc	10	111	25.0	0.20			ANSS
1981/01/19	16:54:19	37.73300	-78.43000	5.2	0.7	Mc	12	180	28.0	0.20			ANSS; VTSO SEUSSN-Bull8
1981/01/21	11:29:58	37.77200	-78.41400	7.9	0.2	Mc	9	174	24.0	0.10			ANSS; VTSO SEUSSN-Bull8
1981/02/11	8:44:16	37.72000	-78.43500	6.3	3.4	ML	23	79	29.0	0.20	IV		ANSS; NCEER; SEUSSN-Bull8
1981/02/11	8:50:31	37.75000	-78.40700	10.0	3.2	ML	19	115	26.0	0.20	IV		ANSS; NCEER; SEUSSN-Bull8
1981/02/11	8:51:39	37.72400	-78.44800	8.5	2.9	ML	14	128	29.0	0.10	III		ANSS; NCEER; SEUSSN-Bull8
1981/03/19	23:02:03	37.51900	-77.67900	5.5	0.7	Mc	7	291	49.0	0.10			ANSS; VTSO SEUSSN-Bull9
1981/04/09	2:12:54	37.48100	-77.82100	0.7	2.3	Mc	18	129	43.0	0.30			ANSS; VTSO SEUSSN-Bull8
1981/04/09	2:34:36	37.46500	-77.86700	1.2	0.5	Mc	6	267	42.0	0.30			ANSS; VTSO SEUSSN-Bull8
1981/04/16	8:49:20	37.61100	-78.22200	15.5	0.2	Mc	6	191	23.0	0.10			ANSS; VTSO SEUSSN-Bull8
1981/06/06	4:05:58	38.21600	-79.49300	14.0	0.5	Mc	11	162	15.0	0.70			ANSS; VTSO SEUSSN-Bull8
1981/07/30	6:59:49	38.19400	-78.08800	6.0	1.4	MLD	18	180		0.31	III	Orange, VA	ANSS; NCEER; VTSO SEUSSN-Bull9
1981/08/24	6:50:11	36.94500	-80.74600	16.8	1.0	MLD	13	183	11.0	0.24		Pulaski, VA	ANSS; VTSO SEUSSN-Bull9
1981/11/12	1:24:14	37.23500	-80.75000	9.2	0.7	MLD	6	223		0.16		Narrows, VA	ANSS; VTSO SEUSSN-Bull9

1981/11/23	8:14:51	38.24100	-79.04700	9.8	2.1	MLD	23	175	50.0	0.27	III	Staunton, VA	ANSS; ISC; NCEER; NEIC; VTSO SEUSSN-Bull9
1981/12/03	21:35:56	37.00000	-80.74600	3.5	2.0	MLD	21	157	6.0	0.37		Pulaski, VA	ANSS; ISC; NEIC; VTSO SEUSSN-Bull
1982/01/13	8:16:25	37.74900	-78.07000	9.4	1.5	MLD	15	170	6.0	0.15		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/01/18	1:11:14	37.90500	-77.83900	7.4	0.3	MLD	11	171		0.11		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/02/19	23:34:26	37.48600	-77.70700	0.8	1.5	MLD	15	145	49.0	0.13		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/04/11	15:01:15	37.73000	-78.41900	1.3	0.9	MLD	8	277	28.0	0.10		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/05/04	9:54:02	37.56400	-78.46300	5.2	1.4	MLD	11	139	40.0	0.27		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/05/04	9:57:31	37.55200	-78.44200	0.7	0.7	MLD	6	238		0.08		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/05/06	2:18:11	37.85400	-77.57800	9.7	2.0	MLD	18	153	17.0	0.20		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/05/17	22:16:34	37.12900	-80.50000	10.5	1.6	MLD	18	148	11.0	0.23		Christiansburg, VA	ANSS; VTSO SEUSSN-Bull10
1982/06/16	13:40:59	38.12700	-78.84100	10.9	2.1	MLD	11	125	37.0	0.13		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/06/25	18:03:47	37.83100	-77.50200	13.4	1.8	MLD	18	166	23.0	0.14		Central Virginia	ANSS; VTSO SEUSSN-Bull10
1982/09/20	7:15:32	37.82200	-77.49600	10.6	1.5	Md	20	168	24.0	0.18		Doswell, VA	ANSS; VTSO SEUSSN-Bull11
1983/01/08	10:53:56	37.32800	-80.61600	4.1	1.2	MLD	5	139	16.0	0.22		Giles County	ANSS; VTSO SEUSSN-Bull12
1983/01/25	15:38:58	37.38600	-80.50500	16.7	1.8	MLD	19	81	14.0	0.25		Giles County	ANSS; VTSO SEUSSN-Bull12
1983/04/20	13:09:57	37.34900	-80.83300	10.4	1.2	MLD	7	129	5.0	0.19		Giles County	ANSS; VTSO SEUSSN-Bull12
1983/05/25	20:04:45	37.50600	-80.31600	9.0	2.2	MLD	19	109	8.0	0.24		Giles County	ANSS; VTSO SEUSSN-Bull12
1983/07/03	11:29:25	37.64100	-78.37300	3.5	1.2	MLD	13	170	28.0	0.30		Gold Hill, VA	ANSS; VTSO SEUSSN-Bull13
1983/07/10	9:05:39	37.27000	-80.75400	7.6	1.0	MLD	7	89	6.0	0.30		Bane, VA	ANSS; VTSO SEUSSN-Bull13
1983/07/30	1:31:53	36.66900	-81.64700	5.5	1.5	MLD	13	138	44.0	0.30		Marion, VA	ANSS; VTSO SEUSSN-Bull13
1983/08/10	7:29:34	37.77300	-78.42400	11.2	1.8	MLD	8	118	23.0	0.30		Scottsville, VA	ANSS; VTSO SEUSSN-Bull13
1983/11/05	1:30:34	36.83600	-83.09600	6.7	1.8	MLD	16	192	51.0	0.10		KY-VA border	ANSS
1983/12/08	19:11:58	37.27100	-80.76000	12.2	1.9	MLD	7	301	13.0	0.30		White Gate, VA	ANSS; VTSO SEUSSN-Bull13
1984/02/06	7:27:03	37.57300	-78.14900	0.4	1.1	MLD	5	174	25.0	0.10		Whiteville, VA	ANSS; VTSO SEUSSN-Bull14
1984/05/29	6:29:00	38.10700	-78.79300	7.4	1.3	MLD	5	328	32.0	0.10		Jarman Gap, VA	ANSS; VTSO SEUSSN-Bull14
1984/07/02	14:51:39	37.27800	-80.72500	10.7	1.5	Md	13	91	7.0	0.30		Narrows, VA	ANSS; VTSO SEUSSN-Bull15
1984/08/17	13:05:47	37.86800	-78.32400	8.2	4.2	Mb_lg	13	104	17.5	0.20	V	Cunningham, VA	ANSS; Davison et al (1984); ISC; NEIC; Tarr and Wheeler (2006); VTSO SEUSSN-Bull15
1984/10/17	3:57:41	37.93400	-77.50700	14.7	1.1	Md	9	202	16.5	0.20		Cedar Fork, VA	ANSS; VTSO SEUSSN-Bull15
1984/12/02	7:29:34	37.44200	-77.92600	4.5	1.1	Md	6	258	42.0	0.20		Masons Corner, VA	VTSO SEUSSN-Bull15
1985/04/22	13:21:16	37.60300	-78.59900	4.5	2.0	Md	15	111	44.0	0.30		Mount Vinco, VA	ANSS; VTSO SEUSSN-Bull16
1985/06/10	8:25:23	37.24800	-80.48500	11.1	3.2	Mb_lg	14	99	6.0	0.30	IV	Blacksburg, VA	ANSS; ISC; VTSO SEUSSN-Bull16
1985/09/01	23:34:04	37.76600	-78.13300	8.2	0.6	MDB	5	353	3.8	0.10		Columbia, VA	ANSS; VTSO SEUSSN-Bull17
1985/09/01	23:58:00	37.73700	-78.16400	10.0	0.9	MDB	7	355	8.1	0.20		Columbia, VA	ANSS; VTSO SEUSSN-Bull17
1985/12/21	5:12:05	37.68400	-77.51100	0.5	2.6	Mb_lg	16	169	41.0	0.10		Richmond, VA	ANSS; VTSO SEUSSN-Bull17
1986/02/02	16:50:48	37.60300	-77.38800	16.1	1.3	MDB	14	189	55.0	0.32		Richmond, VA	ANSS; VTSO SEUSSN-Bull18
1986/03/26	11:36:24	37.24500	-80.49400	11.9	2.9	MDB	15	110	7.0	0.29	IV	Blacksburg, VA	ANSS; ISC; VTSO SEUSSN-Bull18
1986/07/20	14:24:04	38.08600	-78.52500	12.6	1.1	MDB	6	292	13.0	0.06		Charlottesville, VA	ANSS; VTSO SEUSSN-Bull18
1986/08/09	2:58:17	36.78700	-80.72700	10.5	2.2	MDB	16	182	27.0	0.24		Hillsville, VA	ANSS; VTSO SEUSSN-Bull19
1986/09/30	0:29:33	37.79200	-77.69800	11.3	1.6	MDB	7	279	25.0	0.10		Feldspar, VA	ANSS; VTSO SEUSSN-Bull19
1986/11/03	0:14:41	37.91300	-78.35900	2.3	0.8	MDB	8	190	11.7	0.12		Cunningham, VA	ANSS; VTSO SEUSSN-Bull19

1986/12/03	4:44:21	37.58000	-77.45800	1.6	1.5	MDB	11	208	54.0	0.15	IV	Richmond, VA	ANSS; VTSO SEUSSN-Bull19
1986/12/10	6:30:06	37.58500	-77.46800	1.2	2.2	MDB	14	207	14.0	0.16	V	Richmond, VA	ANSS; ISC; NEIC; VTSO SEUSSN-Bull19
1986/12/24	12:58:38	37.58300	-77.45800	1.0	1.6	MDB	13	208	53.0	0.16	IV	Richmond, VA	ANSS; Davidson and Bode (1987); VTSO SEUSSN-Bull19
1987/01/13	9:50:41	37.58400	-77.46500	2.5	1.9	MDB	11	207	57.0	0.12	IV	Richmond, VA	ANSS; Davidson and Bode (1987); VTSO SEUSSN-Bull20
1987/04/04	20:40:28	37.28200	-78.64200	6.3	2.0	MDB	13	209	26.5	0.34		Shields, VA	ANSS; VTSO SEUSSN-Bull20
1987/04/10	22:30:21	37.66400	-77.90300	8.7	1.7	MDB	16	136	23.0	0.20		Michaux, VA	ANSS; VTSO SEUSSN-Bull20
1987/04/13	22:08:00	37.86200	-77.54300	11.7	0.6	MDB	11	256	23.7	0.23		Cool Water, VA	ANSS; VTSO SEUSSN-Bull20
1987/11/20	20:03:21	36.75600	-80.71300	5.0	2.1	MDB	34	131	31.0	0.34	III	Hillsville, VA	ANSS; ISC; NEIC; VTSO SEUSSN-Bull21
1988/02/16	10:26:55	36.59500	-82.27400	4.0	3.3	ML	70	67	22.0	0.20	IV	Bristol, TN	ANSS; ISC; VTSO SEUSSN-Bull22
1988/02/25	13:33:39	36.62400	-82.31000	5.9	0.3	MDB	8	279	3.3	0.22		Bristol, VA	ANSS; VTSO SEUSSN-Bull22
1988/07/09	9:48:40	37.29600	-80.48900	3.0	0.8	MDB	6	232	11.2	0.49		Newport, VA	ANSS; VTSO SEUSSN-Bull23
1988/08/19	22:48:54	36.73400	-81.17200	10.3	1.5	MDB	20	145	8.0	0.42		Independence, VA	ANSS; VTSO SEUSSN-Bull23
1988/08/25	22:42:58	36.61700	-81.49300	6.0	1.0	Mc	7	188	30.0	0.20		Trout Dale, VA	ANSS; VTSO SEUSN-Bull 23
1988/08/27	11:52:30	37.71800	-77.77500	14.3	2.7	Mc	13	159	31.0	0.30	IV		ANSS; ISC; NEIC; VTSO SEUSSN-Bull23
1988/10/28	21:45:49	36.64700	-83.56400	15.7	1.3	Mc	11	282	45.0	0.10		Lee County, VA	ANSS
1988/12/04	12:15:06	37.17500	-82.45900	19.6	1.5	Mc	18	289	87.0	0.40		Clintwood, VA	ANSS
1988/12/11	13:57:00	36.75400	-80.73400	7.6	2.2	Mc	21	177	31.0	0.40	III	Hillsville, VA	ANSS; VTSO SEUSSN-Bull24
1989/06/04	4:49:28	37.22400	-78.29300	8.8	2.8	ML	16	137	6.0	0.20	III	Moran, VA	ANSS; VTSO SEUSSN-Bull24
1989/06/21	8:35:02	37.25200	-80.72000	8.7	0.9	Mc	14	99	10.0	0.20		Bane, VA	ANSS; VTSO SEUSSN-Bull24
1989/09/10	19:22:08	37.33100	-80.71000	10.1	0.8	Mc	11	165	8.0	0.20		Pearisburg, VA	ANSS; VTSO SEUSSN0Bull24
1990/01/02	23:25:15	37.02400	-81.81700	3.5	2.0	Mc	15	290	71.0	0.50	III	Richlands, VA	ANSS; VTSO SEUSSN-Bull25
1990/04/04	22:29:00	36.76200	-80.75300	12.7	0.8	Mc	11	208	38.0	0.30		Galax, VA	ANSS; VTSO SEUSSN-Bull25
1990/06/17	6:23:58	37.46900	-78.25500	1.1	2.0	Mc	20	87	31.0	0.20		Hillcrest, VA	ANSS; VTSO SEUSSN-Bull25
1990/08/30	1:40:20	37.36200	-80.48200	16.6	2.2	Mc	12	127	14.0	0.20		Clover Hollow, VA	ANSS; VTSO SEUSSN-Bull25
1990/10/09	16:16:32	37.26400	-80.73000	11.1	0.5	Mc	6	146	8.0	0.10		Bane, VA	ANSS; VTSO SEUSSN-Bull25
1990/11/09	3:00:51	37.56800	-77.61400	12.5	1.1	Mc	12	186	50.0	0.20		Lorraine, VA	ANSS; VTSO SEUSSN-Bull25
1990/12/14	13:32:13	37.86600	-77.68600	13.6	1.5	Mc	11	268	17.0	0.30		Montpelier, VA	ANSS; VTSO SEUSSN-Bull25
1991/01/06	5:05:40	38.45900	-77.62900	23.1	1.0	Mc	9	317	38.0	0.30		Fredericksburg, VA	ANSS; VTSO SEUSSN-Bull26
1991/01/11	16:01:59	37.51000	-78.19000	9.6	2.0	Mc	16	132	32.0	0.20		Cumberland, VA	ANSS; VTSO SEUSSN-Bull26
1991/03/14	20:40:23	37.72500	-77.88300	5.2	1.3	Mc	11	201	21.0	0.20		Sandy Hook, VA	ANSS; VTSO SEUSSN-Bull26
1991/03/15	1:54:08	37.74600	-77.90900	15.5	3.8	ML	13	116	18.0	0.20	V	Sandy Hook, VA	ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull26
1991/03/15	2:05:56	37.73800	-77.90900	10.4	0.4	Mc	11	196	19.0	0.30		Sandy Hook, VA	ANSS; VTSO SEUSSN-Bull26
1991/03/15	16:05:00	37.77200	-77.93100	14.7	0.1	Mc	7	257	16.0	0.30		Sandy Hook, VA	ANSS; VTSO SEUSSN-Bull26
1991/04/29	10:13:30	37.17100	-80.90900	16.7	1.6	Mc	12	134	9.0	0.20		Giles County, VA	ANSS; VTSO SEUSSN-Bull26
1991/04/30	1:39:52	37.45000	-77.58800	10.8	1.4	Mc	14	185	52.0	0.20		Falling Creek Farms, VA	ANSS; VTSO SEUSSN-Bull26
1991/07/23	8:52:33	37.26300	-80.74300	8.9	0.3	Mc	7	267	7.0	0.10		Narrows, VA	ANSS; VTSO SEUSSN-Bull26
1991/09/14	2:36:17	37.76600	-78.13800	10.5	2.3	Mc	16	113	4.0	0.40		Goochland, VA	ANSS; VTSO SEUSSN-Bull26
1992/01/02	23:59:55	36.77900	-83.04000	9.7	2.4	Mc	15	203	59.0	0.10		Wise County, VA	ANSS; VTSO SEUSSN-Bull27
1992/02/10	13:30:15	37.28100	-80.82100	9.1	1.2	Mc	5	182	5.0	0.10		Narrows, VA	ANSS; VTSO SEUSSN-Bull27

1992/02/19	9:10:32	37.90500	-78.05300	4.8	0.8	Mc	8	137	13.0	0.20		Ferncliff, VA	ANSS; VTSO SEUSSN-Bull27
1992/03/21	23:28:49	37.63400	-78.52700	9.0	0.8	Mc	11	206	39.0	0.60		Glenmore, VA	ANSS; VTSO SEUSSN-Bull27
1992/05/19	3:45:06	36.74900	-80.70400	0.8	2.0	Mc	20	182	42.0	0.30	III	Hillsville, VA	ANSS; ISC; NEIC; VTSO SEUSSN-Bull27
1992/06/27	13:55:16	37.76600	-78.43300	33.5	1.8	Mc	4	180	24.0	0.10			ANSS; VTSO SEUSSN-Bull27
1992/12/25	13:33:14	36.76900	-80.73100	6.5	2.2	Mc	17	143	40.0	0.20	II	Hillsville, VA	ANSS; VTSO SEUSSN-Bull27
1993/02/19	16:37:06	36.69600	-81.14400	7.9	2.2	Mc	5	336	4.0	0.10		Elk Creek, VA	ANSS; VTSO SEUSSN-Bull28
1993/03/20	21:40:08	36.64300	-81.42300	1.0	1.7	Mc	7	179	24.0	0.30		Flat Ridge, VA	ANSS; VTSO SEUSSN-Bull28
1993/04/03	3:27:06	37.46400	-78.33500	12.9	1.4	Mc	6	308	42.0	0.20		Guinea Mills, VA	ANSS; VTSO SEUSSN-Bull28
1993/05/20	10:07:33	38.08600	-77.43500	11.1	2.4	Mc	15	162	14.0	0.20		Ruins, VA	ANSS; VTSO SEUSSN-Bull28
1993/05/24	9:39:07	37.17500	-80.81100	10.1	2.1	Mc	12	159	16.0	0.20		White Gate, VA	ANSS; VTSO SEUSSN-Bull28
1993/12/19	0:50:07	37.54900	-78.19400	14.7	1.9	Mc	8	197	28.0	0.20		Cumberland, VA	ANSS; VTSO SEUSSN-Bull28
1994/02/11	21:40:25	36.80000	-82.00000	5.0	3.4	ML	4						ANSS; ISC; NEIC; USGS DYFI
1994/02/27	17:34:19	37.28200	-80.76100	1.5	0.8	Mc	8	142	5.0	0.30		Narrows, VA	ANSS; VTSO SEUSSN-Bull29
1994/02/27	17:36:43	37.27900	-80.76000	2.1	1.1	Mc	8	141	5.0	0.30		Narrows, VA	ANSS; VTSO SEUSSN-Bull29
1994/09/10	6:30:10	37.64500	-78.51700	1.3	1.4	Mc	8	238	38.0	0.30			ANSS
1995/01/22	3:24:49	37.05000	-80.78900	9.3	2.9	ML	6	231	17.0	0.20		Pulaski, VA	ANSS; ISC; USGS DYFI; VTSO SEUSSN-Bull30
1995/02/09	14:14:01	37.45100	-80.28400	18.3	2.3	Mc	8	277	29.0	0.20		Sinking Creek, VA	ANSS; VTSO SEUSSN-Bull30
1995/04/15	18:37:13	37.26700	-77.84500	5.0	1.8	Mc	7	187	42.0	0.20		Mannboro, VA	ANSS; VTSO SEUSSN-Bull30
1995/06/25	19:36:17	36.75200	-81.48100	1.8	3.4	ML	9	179	88.0	0.30		Troutdale, VA	ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull30
1995/08/03	8:07:04	37.39300	-76.69300	1.0	2.9	ML	12	290	87.0	0.30		York River State Park, VA	ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull30
1996/07/25	1:08:24	37.02300	-81.06300	12.0	2.1	Mc	4	327	40.0	0.00		Wytheville, VA	ANSS, VTSO SEUSSN-Bull31
1996/08/06	22:45:40	37.29000	-80.66500	5.5	1.3	Mc	4	188	12.0	0.30		Giles County, VA	ANSS; VTSO SEUSSN-Bull31
1996/11/20	17:46:31	37.80900	-77.57600	15.4	1.3	Mc	5	321	33.0	0.00			ANSS; VTSO SEUSSN-Bull31
1997/03/29	5:16:57	37.08800	-81.90600	4.4	2.3	Mc	7	314	102.0	0.40		Red Ash, VA	ANSS; VTSO SEUSSN-Bull32
1997/07/12	8:35:04	37.28500	-80.85900	20.3	1.4	Mc	5	296	7.0	0.00		Narrows, VA	ANSS; VTSO SEUSSN-Bull32
1997/07/24	2:49:44	37.62000	-77.76100	9.3	1.5	Mc	6	316	36.0	0.10		Manakin, VA	ANSS; VTSO SEUSSN-Bull32
1997/07/27	10:10:43	38.42900	-77.98200	19.0	2.5	ML	6	309	50.0	0.10			ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull32
1997/09/29	12:45:08	38.81600	-77.44500	2.5	2.5	ML	6	338	99.0	0.50			ANSS; ISC; USGS DYFI; VTSO SEUSSN-Bull32
1997/10/30	1:42:23	36.70500	-80.89900	7.6	2.2	Mc	14	185	45.0	0.60		Galax, VA	ANSS; ISC; NEIC; VTSO SEUSSN-Bull32
1997/10/30	10:59:40	36.71800	-80.93100	8.8	2.1	Mc	10	316	43.0	0.70		Galax, VA	ANSS; ISC; NEIC; VTSO SEUSSN-Bull32
1997/12/27	2:44:47	37.98500	-79.95300	0.0	2.2	Mc	5	343	95.0	0.70		Healing Springs, VA	ANSS; VTSO SEUSSN-Bull32
1998/02/03	1:47:24	37.31000	-80.50200	30.5	0.5	Mc	6	188	13.0	0.10		Giles County, VA	ANSS; VTSO SEUSSN-Bull33
1998/04/21	18:28:26	38.17100	-78.56900	2.0	2.8	ML	8	231	23.0	0.20			ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull33
1998/04/26	1:38:28	37.67800	-78.02700	15.0	1.8	Mc	6	291	15.0	0.10			ANSS; VTSO SEUSSN-Bull33
1998/05/19	20:53:28	38.75800	-78.42300	3.2	2.2	ML	6	328	86.0	0.10		Luray, VA	ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull33
1998/06/14	7:34:42	37.68800	-77.84600	18.9	1.3	Mc	5	302	26.0	0.10			ANSS; VTSO SEUSSN-Bull33
1998/10/21	0:56:47	37.42200	-78.43900	12.6	3.8	ML	9	143	177.0	0.90		Farmville, VA	ANSS; ISC; NEIC; VTSO SEUSSN-Bull33
1998/11/30	11:33:00	36.90400	-82.86100	0.0	2.0	Mc	19	144	117.0	0.50			ANSS; VTSO SEUSSN-Bull33
1999/08/14	11:07:19	36.56800	-81.23600	3.3	1.7	Mc	10	210	80.0	0.20		Independence, VA	ANSS; VTSO SEUSSN-Bull34
1999/11/21	19:31:16	36.97600	-80.90900	5.4	1.5	Mc	15	116	16.0	0.40		Max Meadows, VA	ANSS; VTSO SEUSSN-Bull34
1999/12/17	15:09:29	36.58800	-83.10300	14.5	1.6	Mc	7	316	79.0	0.20		Sneedville, TN	ANSS

1999/12/25	21:06:09	36.78300	-82.66000	3.1	1.9	Mc	9	183	113.0	0.40		Fort Blackmore, VA	ANSS; VTSO SEUSSN-Bull34
2000/04/29	22:34:53	37.70000	-77.50000	5.0	2.5	ML	8		207.0			Glen Allen, VA	ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull35
2000/08/18	5:09:55	37.18599	-79.94670	10.0	2.7	Mc	8	307	42.0	0.30		Wright, VA	ANSS; ISC; NEIC; VTSO SEUSSN-Bull35
2001/03/28	6:19:25	37.31000	-80.81200	0.1	2.6	ML	6	221	26.0	0.10		Narrows, VA	ANSS; ISC; VTSO SEUSSN-Bull36
2001/06/25	18:04:48	38.46000	-77.82400	5.0	2.5	Mc	12	127	49.0	0.90		Lignum, VA	ANSS; VTSO SEUSSN-Bull36
2001/09/02	21:05:58	37.36900	-78.23100	5.0	2.5	Mc	10	225	120.0	0.50		Rice, VA	ANSS; VTSO SEUSSN-Bull36
2001/09/22	11:01:21	38.02600	-78.39600	0.4	3.2	ML	13	167	92.0	0.50		Shadwell, VA	ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull36
2001/10/01	4:56:00	37.26200	-80.09900	11.2	1.8	Mc	10	267	29.0	0.20		Salem, VA	ANSS; VTSO SEUSSN-Bull36
2001/11/07	21:15:12	37.09000	-80.84000	3.6	1.8	Mc	8	210	12.0	0.20		Pulaski, VA	ANSS; VTSO SEUSSN-Bull36
2001/11/18	12:15:45	37.22600	-80.34400	11.6	1.6	Mc	8	303	7.0	0.20		Blacksburg, VA	ANSS; VTSO SEUSSN-Bull36
2003/05/05	11:32:32	37.62567	-77.95517	12.5	3.6	Mw	13	164	82.0	0.45	IV	Columbia, VA	ANSS; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull38
2003/10/17	20:49:41	37.13883	-81.34983	8.2	2.5	Md	6	347	222.0	0.23		Shawver Mill, VA	CERI; USGS DYFI
2003/11/06	7:22:49	37.78300	-77.63400	3.9	2.6	Md	13	230	52.0	0.90		Ashland, VA	ANSS; CERI; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull38
2003/12/09	15:59:14	37.77400	-78.10000	10.0	4.5	Mb_lg	16	201	47.0	0.90	VI	Columbia, VA	ANSS; Bailey (2004); CERI; ISC; Kim and Chapman (2015); NEIC; USGS DYFI; VTSO SEUSSN-Bull38
2004/04/29	8:26:10	36.67883	-82.74767	3.5	2.1	Md	10	335	76.0	0.25		Clinchport, VA	ANSS; CERI; VTSO SEUSSN-Bull39
2004/12/02	20:27:14	37.87800	-77.96300	10.0	2.5	Md	9	197	52.0	0.40		Mineral, VA	ANSS; CERI; ISC; NEIC; USGS DYFI; VTSO SEUSSN-Bull39
2005/12/30	18:24:39	37.36600	-80.34300	14.0	2.2	Md	8	262	18.0	0.20		Blacksburg, VA	ANSS; CERI; USGS DYFI; VTSO SEUSSN-Bull40
2006/07/02	10:38:38	37.18800	-80.97000	5.2	1.7	ML	7	291	22.0	0.10		Mechanicsburg, VA	ANSS; USGS DYFI
2007/01/25	20:46:09	36.66867	-83.42467	21.0	2.3	Md	21	248	38.0	0.28		Ewing, VA	CERI; USGS DYFI
2007/08/05	2:20:46	37.71500	-77.68000	8.2	2.1	Mb_lg	6	121				Manakin, VA	ANSS; ISC; NEIC; USGS DYFI
2008/05/06	12:30:24	38.80580	-77.22000	6.0	2.0	Mc	14	140	68.0	0.40	III	Springfield, VA	ANSS; ISC; NEIC
2009/01/12	18:07:39	37.21467	-80.78133	7.4	2.3	Mb_lg	5	198	32.0	0.32		Poplar Hill, VA	ANSS; CERI; USGS DYFI
2009/05/16	3:08:18	37.24850	-80.00200	12.9	3.0	Mb_lg	30	85	37.0	0.46	IV	Spring Valley, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2009/07/04	7:24:43	37.33100	-80.77717	0.0	2.8	Mb_lg	22	130	34.0	0.33	III	Pearisburg, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2009/07/06	22:59:53	37.69383	-77.60767	5.5	2.3	Mb_lg	10	135	15.0	0.11	IV	Bridlewood,VA	ANSS; ISC; NEIC; USGS DYFI
2009/07/31	5:14:10	37.77683	-77.52634	15.0	2.1	Mb_lg	7	164	23.0	0.08		Ashland Mills, VA	ANSS; CERI
2009/08/02	3:57:08	37.93100	-77.58450	8.8	2.3	Mb_lg	11	142	36.0	0.20		Hewlett, VA	ANSS; CERI; ISC; NEIC
2009/08/14	8:48:18	36.76417	-82.36300	15.9	2.9	Mb_lg	31	91	38.0	0.21	IV	Little Duck, VA	ANSS; CERI; ISC; NEIC
2009/10/06	2:07:53	37.71767	-78.00517	6.4	1.7	Mb_lg	7	151	11.0	0.07		Georges Landing, VA	ANSS
2009/11/25	5:24:46	37.56017	-78.87016	0.0	2.7	Mb_lg	17	152	38.0	0.30	IV	Allens Creek, VA	ANSS; CERI; ISC; NEIC
2009/12/16	8:20:51	37.53517	-78.51366	9.7	2.2	Mb_lg	7	186	59.0	0.31		Sprouses Corner,VA	ANSS; CERI
2009/12/18	11:27:57	37.69600	-77.64000	0.0	2.0	Md	5	237	17.0	0.12		Hylas, VA	ANSS; CERI
2010/04/28	23:12:52	37.84700	-77.71450	4.0	2.3	Mb_lg	9	145	22.0	0.07		Mabelton, VA	ANSS; CERI
2010/10/02	15:17:00	37.85317	-77.51867	19.2	3.0	Mb_lg	26	164	31.0	0.21	IV	Oliver, VA	ANSS; CERI; ISC; USGS DYFI
2010/10/30	1:10:14	37.73483	-77.45966	4.0	2.4	Md	11	230	53.0	0.43	III	Heaths Store, VA	ANSS; CERI; ISC; USGS DYFI
2011/03/28	2:26:22	37.02200	-80.77717	3.1	2.5	Md	21	101	38.0	0.23	III	Pulaski, VA	ANSS; CERI; ISC; USGS DYFI
2011/08/23	12:51:05	37.90967	-77.93633	6.0	5.8	Mw	27	80	52.0	0.48	VIII	Mineral, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/23	13:46:50	37.93050	-77.93467	6.0	2.8	Md	12	98	53.0	0.16	VII	Cuckoo, VA	ANSS; CERI; ISC; NEIC

2011/08/23	14:20:26	37.91017	-78.00433	6.0	2.2	Md	9	113	56.0	0.10	VII	Shannon Hills, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/23	19:04:37	37.91467	-77.95450	6.0	4.2	Mb_lg	24	121	52.0	0.31	VII	Vigor, VA	ANSS; CERI; ISC; NEIC
2011/08/23	23:45:26	37.82516	-77.94800	6.0	3.4	Mb_lg	13	129	56.0	0.37	VI	Hadensville Farms,VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/24	23:06:47	37.89233	-77.96384	13.5	2.5	Md	10	113	6.0	0.12	VI	Deep Woods, VA	ANSS; CERI; ISC; NEIC
2011/08/25	0:07:52	37.94683	-77.96716	6.8	4.5	Mb_lg	31	76	11.0	0.52	V	Yanceyville, VA	ANSS; CERI; ISC; NEIC
2011/08/25	1:37:31	37.95317	-77.99216	6.0	2.3	Md	12	112	13.0	0.14	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/25	10:27:47	37.94517	-77.89833	4.6	2.4	Md	13	84	10.0	0.25	IV	Cuckoo, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/25	18:40:56	37.95217	-77.85667	6.1	2.6	Mb_lg	15	150	12.0	0.38	IV	Threemile Corner, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/26	17:52:22	37.91367	-77.99267	3.2	2.1	Md	23	87	7.0	0.11	IV	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/27	4:02:29	37.93967	-77.98883	5.0	2.0	Md	19	80	4.0	0.10		Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/27	13:43:45	37.94683	-77.98550	0.0	1.8	Md	9	148	7.0	0.04		Louisa, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/28	15:18:05	37.93650	-77.96484	6.7	2.2	Md	21	80	5.0	0.10	III	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/28	20:06:36	37.93633	-77.98500	4.6	2.3	Md	29	81	0.0	0.12	V	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/28	22:15:21	37.93850	-77.98800	4.2	2.0	Mb_lg	28	80	1.0	0.08		Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/28	22:16:50	37.93467	-77.98766	3.7	2.7	Mb_lg	27	82	1.0	0.13	IV	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/28	23:19:26	37.93900	-77.98550	4.4	2.2	Mb_lg	23	80	1.0	0.06	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/29	18:39:50	37.96550	-77.93367	6.3	2.1	Md	30	59	2.0	0.08	III	Cuckoo, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/29	22:48:28	37.90617	-77.98000	7.3	2.6	Mb_lg	41	67	3.0	0.12	V	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/30	8:26:50	37.91967	-77.98200	5.8	2.1	Md	29	85	2.0	0.09	V	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/31	8:44:10	37.92350	-77.88300	2.1	2.1	Md	28	75	4.0	0.06	IV	Threemile Corner, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/08/31	10:01:55	37.95233	-77.97667	3.6	1.8	Md	21	73	2.0	0.05		Yanceyville, VA	ANSS; CERI; USGS DYFI
2011/09/01	4:09:38	37.95016	-77.93200	3.4	3.4	Mb_lg	41	60	2.0	0.28	IV	Cuckoo, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/09/03	16:10:53	37.94817	-77.97066	5.4	2.0	Md	25	57	2.0	0.06		Yanceyville, VA	ANSS; CERI; USGS DYFI
2011/09/05	11:54:24	37.94683	-77.96967	5.2	2.5	Md	38	51	2.0	0.14	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/09/06	4:03:17	37.92350	-77.87984	2.6	2.1	Md	32	78	4.0	0.07	III	Threemile Corner, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/09/06	16:17:54	37.93683	-77.96450	6.2	2.0	Md	22	80	2.0	0.07		Vigor, VA	ANSS; CERI; USGS DYFI
2011/09/07	0:56:44	37.95933	-77.94566	6.1	2.1	Md	28	59	3.0	0.08	III	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/09/16	11:17:39	37.93650	-77.98683	4.6	2.1	Md	17	82	1.0	0.05	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/09/17	3:33:08	37.92750	-77.98817	5.0	2.0	Md	27	85	1.0	0.08		Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/09/17	7:42:35	37.94183	-77.97800	5.1	1.9	Md	22	68	1.0	0.05		Yanceyville, VA	ANSS; CERI; USGS DYFI
2011/09/17	10:33:13	37.92500	-77.98750	4.7	2.6	Mw	29	85	1.0	0.07	III	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/09/17	13:37:38	37.97450	-77.82733	3.1	2.1	Md	19	93	8.0	0.05		Mt. Garland, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/09/18	3:43:03	37.95217	-77.94150	3.1	2.1	Md	30	71	3.0	0.08		Cuckoo, VA	ANSS; CERI; USGS DYFI
2011/09/18	23:58:44	37.97700	-77.83033	2.1	2.0	Md	27	92	7.0	0.07		Mt. Garland, VA	ANSS; CERI; ISC; USGS DYFI
2011/09/19	10:29:41	37.91500	-78.00217	3.2	1.8	Md	22	93	2.0	0.05		Vigor, VA	ANSS; CERI; USGS DYFI
2011/09/19	15:33:13	37.97617	-77.82900	3.0	2.2	Md	24	93	8.0	0.04		Mt. Garland, VA	ANSS; CERI; USGS DYFI
2011/10/05	1:18:49	37.93517	-77.99284	3.7	2.5	Md	24	87	1.0	0.05	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/10/06	17:42:39	37.94617	-77.85367	1.1	2.1	Md	25	90	5.0	0.07		Threemile Corner, VA	ANSS; CERI; USGS DYFI
2011/10/09	10:53:24	37.94800	-77.97717	3.5	2.4	Md	27	61	2.0	0.06	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/10/09	20:04:53	37.91900	-77.96600	5.0	2.2	Mb_lg	15	85		0.44	III		ANSS; ISC; NEIC; USGS DYFI
2011/10/12	11:40:00	37.94017	-77.98300	4.0	3.0	Mw	27	71	1.0	0.08	IV	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI

2011/10/18	19:02:44	37.93800	-77.98883	4.6	2.3	Mb_lg	24	79	1.0	0.08	V	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/10/25	0:38:28	37.95967	-77.94450	6.3	2.0	Md	22	86	3.0	0.05		Cuckoo, VA	ANSS; CERI; USGS DYFI
2011/11/03	7:50:32	37.94717	-77.96650	6.1	2.3	Mb_lg	25	56	2.0	0.06	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/11/19	15:12:24	37.94150	-77.98950	3.2	2.4	Mb_lg	29	87	1.0	0.07	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/11/19	20:06:38	37.94250	-77.99117	3.8	2.3	Mb_lg	24	88	1.0	0.07	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/11/20	20:06:23	37.95067	-77.96800	5.1	1.8	Md	23	81	2.0	0.07		Yanceyville, VA	ANSS; CERI; USGS DYFI
2011/11/20	20:17:03	37.95150	-77.96917	5.2	1.9	Md	23	81	2.0	0.07	IV	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/11/21	0:25:25	37.94267	-78.12933	5.3	2.1	Md	22	130	9.0	0.09		Ferncliff, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/11/23	2:09:34	37.94467	-77.98600	2.6	2.0	Md	23	86	1.0	0.06		Yanceyville, VA	ANSS; CERI; USGS DYFI
2011/11/29	21:29:23	37.92733	-77.98466	4.6	2.0	Md	25	84	1.0	0.06	III	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/12/02	12:56:42	37.94567	-77.98016	3.7	1.6	Md	21	74	1.0	0.05		Louisa, VA	ANSS; CERI; USGS DYFI
2011/12/05	0:41:29	37.95767	-78.00017	1.2	1.9	Md	25	69	2.0	0.04	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/12/09	17:10:55	37.77067	-77.64267	16.2	2.2	Md	25	222	12.0	0.07	IV	Goodall, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/12/12	1:47:48	37.96900	-77.88450	2.8	2.1	Md	25	84	3.0	0.06	III	Cuckoo, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/12/12	16:57:00	37.95883	-77.99866	1.3	2.0	Md	28	65	2.0	0.05	III	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2011/12/14	9:17:32	37.97250	-77.87900	0.9	2.0	Md	26	86	3.0	0.06		Cuckoo, VA	ANSS; CERI
2011/12/16	22:42:56	37.94967	-77.96500	5.6	1.8	Md	22	81	2.0	0.09		Yanceyville, VA	ANSS; CERI
2011/12/24	2:30:05	37.91683	-78.00417	4.2	2.0	Md	26	89	2.0	0.09		Quail, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/01/08	9:25:55	37.92517	-77.98766	4.6	1.9	Md	25	99	1.0	0.05	III	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/01/13	18:18:05	37.88317	-77.98383	5.5	2.3	Md	24	90	6.0	0.06	III	Windor, VA	ANSS; CERI; ISC; NEIC
2012/01/18	8:08:29	37.95117	-77.95600	1.2	2.5	Md	25	74	3.0	0.08	IV	Mineral, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/01/18	9:19:55	37.90983	-77.99567	5.5	2.0	Md	26	88	3.0	0.08		Apple Grove, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/01/18	16:03:22	37.93367	-77.97967	4.9	2.5	Mb_lg	29	83	0.0	0.06	III	Apple Grove, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/01/27	20:57:54	37.94467	-77.99067	2.8	1.7	Md	18	101	1.0	0.04		Yanceyville, VA	ANSS; CERI; USGS DYFI
2012/01/30	18:39:47	37.94533	-77.98300	3.2	3.1	Mw	27	82	1.0	0.16	V	Yanceyville, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/02/19	2:12:30	37.91333	-77.98367	2.8	2.7	Mw	33	67	2.0	0.17	V	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/02/24	6:37:27	37.86483	-78.00800	1.2	1.7	Md	18	147	6.0	0.04		Windsor Park, VA	ANSS; CERI; USGS DYFI
2012/02/26	20:59:12	37.78200	-77.56084	12.7	1.9	Md	20	237	18.0	0.04	IV	Gilman, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/02/28	0:15:00	37.91983	-77.99450	3.7	1.8	Md	22	129	2.0	0.06	III	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/03/07	3:00:58	37.96017	-77.98700	2.0	1.6	Md	17	84	3.0	0.07		Yanceyville, VA	ANSS; CERI; USGS DYFI
2012/03/07	3:52:33	37.95100	-77.96550	5.6	1.7	Md	19	90	2.0	0.07		Yanceyville, VA	ANSS; CERI; USGS DYFI
2012/03/16	13:30:48	37.50333	-78.17184	7.8	2.2	Md	21	178	48.0	0.16	III	Cumberland, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/03/25	22:21:51	37.90633	-77.98783	8.7	3.0	Mw	26	113	3.0	0.10	IV	Apple Grove, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/03/29	13:38:23	37.92700	-77.98566	4.7	1.7	Md	19	85	1.0	0.09		Vigor, VA	ANSS; CERI; USGS DYFI
2012/04/03	14:00:54	37.91033	-77.99600	6.2	2.4	Md	25	88	3.0	0.08	III	Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/04/26	0:04:37	37.90983	-78.00233	4.6	1.7	Md	15	180	3.0	0.05		Shannon Hills, VA	ANSS; CERI; USGS DYFI
2012/05/01	9:58:15	37.99600	-77.54283	9.4	2.1	Md	23	147	15.0	0.12	III	Ladysmith, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/05/02	3:36:36	37.92300	-77.98833	4.4	1.7	Md	15	146	1.0	0.04		Vigor, VA	ANSS; CERI; USGS DYFI
2012/06/04	7:05:02	37.69567	-78.01450	9.4	2.0	Md	22	243	12.0	0.06	III	James River Landing, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/06/08	16:59:38	37.94700	-78.01050	3.9	1.8	Md	19	128	3.0	0.06		Yanceyville, VA	ANSS; CERI; USGS DYFI
2012/06/16	10:50:25	37.93700	-77.99216	4.2	1.8	Md	18	119	1.0	0.09		Yanceyville, VA	ANSS; CERI; USGS DYFI

2012/07/01	4:04:11	37.97483	-77.82400	1.4	2.0	Md	17	102	8.0	0.05	II	Mount Garland, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2012/07/17	1:28:06	37.74667	-77.75267	9.8	1.9	Md	15	173	9.0	0.05		Vontay, VA	ANSS; CERI; USGS DYFI
2012/07/30	23:43:01	37.81800	-77.86200	5.0	2.4	MN	9	209		0.93	III		ISC; NEIC
2012/10/07	8:39:14	37.72200	-77.75533	15.1	2.2	Md	7	225	29.0	0.08		Smokey Hollow, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2013/01/09	18:35:07	38.02600	-77.98600	5.1	2.0	Md	9	122			III	Louisa, VA	ANSS; ISC; NEIC; USGS DYFI
2013/05/15	6:01:48	37.95417	-78.00633	0.1	2.3	Mb_lg	10	156	11.0	0.27	IV	Louisa, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2013/08/11	18:54:49	37.92500	-77.86900	5.6	1.9	Mb_lg				0.92		Louisa, VA	ANSS; NEIC; USGS DYFI
2013/08/29	23:27:05	37.90483	-78.01400	5.6	2.3	Md	15	123	13.0	0.18	III	Shannon Hills, VA	ANSS; CERI; NEIC; USGS DYFI
2013/11/09	5:59:44	37.93616	-77.97500	5.4	1.9	Md	11	118	9.0	0.25	III	Vigor, VA	ANSS; CERI; NEIC; USGS DYFI
2013/12/05	17:52:27	37.97733	-77.92100	9.8	1.6	Md	10	94	4.0	0.15		Pendleton, VA	ANSS; CERI; NEIC
2014/05/21	20:47:16	37.52983	-78.07017	9.9	3.1	Md	23	74	9.0	0.31	V	Powhatan, VA	ANSS; CERI; NEIC; USGS DYFI
2014/06/02	19:34:39	37.98067	-77.87267	2.8	1.3	Md	7	213	2.0	0.25		Powhatan, VA	ANSS; CERI; NEIC; USGS DYFI
2014/06/04	20:25:32	37.93917	-77.97533	4.7	1.7	Md	11	82	9.0	0.30		Vigor, VA	ANSS; CERI; NEIC; USGS DYFI
2014/06/06	12:10:01	37.94700	-77.98267	5.7	1.5	Md	10	83	9.0	0.24		Yanceyville, VA	ANSS; CERI; NEIC; USGS DYFI
2014/07/25	12:54:22	37.94990	-77.94260	2.3	2.5	Md	5		6.0		III	Vigor, VA	ANSS; CERI; NEIC; ISC; USGS DYFI; VTSO
2014/07/27	0:05:53	37.95683	-77.94617	5.9	1.9	Md	12	97	6.0	0.20		Vigor, VA	ANSS; CERI; ISC; NEIC; USGS DYFI
2014/11/22	19:53:28	36.71333	-82.16350	8.0	2.4	Md	31	82	37.0	0.36	II	Bristol, VA	ANSS; CERI; ISC; USGS DYFI
2015/02/17	6:24:00	37.11940	-80.98530	5.7	2.4	Md	14	87	51.0	0.10		Bluefield, VA	ANSS; CERI; USGS DYFI
2015/02/26	3:48:28	37.70920	-77.86770	7.9	2.5	Md	15	83	28.0	0.17	V	Tuckahoe, VA	ANSS; CERI; ISC; USGS DYFI
2015/03/15	3:02:35	37.95900	-77.95020	5.6	3.1	Md	7		36.0		IV	Cuckoo, VA	ANSS; CERI; ISC; USGS DYFI; VTSO
2015/06/27	0:08:29	37.94820	-77.99780	1.8	2.2	Mb_lg	15	62	11.0	0.22	IV	Cuckoo, VA	ANSS; CERI; ISC; USGS DYFI; VTSO
2015/08/24	4:42:09	37.91770	-77.96000	1.1	1.5	Md	11	94	9.0	0.29		Louisa, VA	ANSS; CERI; ISC; USGS DYFI
2015/09/12	21:39:00	37.96530	-77.99100	3.6	2.2	Md	11	67	10.0	0.08	II	Louisa, VA	ANSS; CERI; USGS DYFI
2015/09/13	21:08:23	37.98530	-77.82230	0.2	1.3	Md	6	110	6.0	0.21		Fredericks Hall, VA	ANSS; CERI; USGS DYFI
2015/09/13	22:58:22	37.96550	-77.80880	0.6	1.2	Md	4	169	6.0	0.17		Fredericks Hall, VA	ANSS; CERI; USGS DYFI
2015/09/13	23:39:56	38.04380	-77.79930	1.2	1.5	Md	5	170	11.0	0.25		Centreville, VA	ANSS; CERI; ISC; USGS DYFI
2015/09/18	14:24:56	37.97330	-77.88330	0.1	1.2	Md	6	160	1.0	0.15		Mineral, VA	ANSS; CERI; USGS DYFI
2015/09/27	13:04:36	38.05450	-77.95670	5.0	1.8	Md	7	115	12.0	0.06	III	Ribbon, VA	ANSS; CERI; ISC; USGS DYFI
2015/11/04	6:00:52	37.56250	-78.43070	7.5	2.6	Md	21	54	51.0	0.20	III	Buckingham, VA	ANSS; CERI; ISC; USGS DYFI
2016/03/27	3:00:52	37.89800	-77.99700	5.1	2.3	Md	11	92	12.7	0.12	I	Louisa, VA	ANSS; ISC; USGS DYFI
2016/04/20	21:09:11	37.99300	-77.82800	3.1	2.0	Md	11	73	5.6	0.13	I	Louisa, VA	ANSS; USGS DYFI
2016/09/24	22:34:27	37.88500	-77.87300	2.9	1.9	Md	10	77	8.7	0.05		Apple Grove, VA	ANSS; ISC; USGS DYFI
2016/09/24	23:31:52	37.88500	-77.87400	0.5	1.6	Md	6	131	8.8	0.06		Apple Grove, VA	ANSS; USGS DYFI
2016/12/22	6:22:35	37.87580	-77.62330	8.5	2.2	Md	11	67	24.5	0.15	III	Ashland, VA	ANSS; ISC; USGS DYFI
2017/03/12	21:11:35	37.70233	-77.81550	11.4	2.6	Mb_lg	11	60	29.6	0.13	IV	Goochland, VA	ANSS; CERI; USGS DYFI
2017/03/22	6:03:13	37.58267	-78.43700	8.1	2.4	Md	11	72	49.5	0.22	IV	Buckingham, VA	ANSS; CERI; USGS DYFI
2017/05/11	23:31:10	37.27717	-80.84100	4.1	2.8	Md	17	67	38.1	0.12	III	Narrows, VA	ANSS; CERI; ISC, USGS DYFI

[1]All times are in Eastern Standard Time.

[2]Seismic Catalogs: ANSS (Advanced National Seismic System), CERI (Center for Earthquake Research and Information), ISC (International Seismological Centre), ISS (International Seismological Summary), NCEER (National Center for Earthquake Engineering Research), NEIC (National Earthquake Information Center), USGS DYFI (US Geological Survey/Did You Feel It), VTSO (Virginia Tech Seismological Observatory).