

## Appendix 2.5AA Earthquake Source Catalog

The updated earthquake catalog prepared for the Fermi 3 project constitutes this appendix. The development of this catalog is described in [Subsection 2.5.2.1](#).

The headings for the data in [Table 2.5AA-201](#) are described below:

Year – Year in Coordinated Universal Time (UTC)

Month – Month in Coordinated Universal Time (UTC)

Day – Day in Coordinated Universal Time (UTC)

Hour – Hour in Coordinated Universal Time (UTC)

Minute – Minute in Coordinated Universal Time (UTC)

Second – Second in Coordinated Universal Time (UTC)

Latitude – Latitude, Degrees North

Longitude – Longitude, Degrees East (West negative)

Depth – Hypocentral depth in km (n.a.= not available)

ERH – Estimated Horizontal Location Uncertainty in km (provides a measure of the uncertainty in location of the earthquake).

E[**M**] – Expected moment magnitude.

E<sub>fac</sub> – Equivalent earthquake count.

SM – Standard error associated with E[**M**].

R [km] – Distance in km from the Fermi 3 site.

**Table 2.5AA-201 Fermi 3 Earthquake Catalog (Sheet 1 of 7)**

| ID       | Year | Month | Day | Hour | Minute | Second | Latitude | Longitude | Depth | Erh | E[M] | Efac  | SM    | R [km] |
|----------|------|-------|-----|------|--------|--------|----------|-----------|-------|-----|------|-------|-------|--------|
| TMP00277 | 1776 | 1     | 1   | 14   | 0      | 0      | 39.9     | -82       | n.a.  | 40  | 3.98 | 1.877 | 0.513 | 252.7  |
| TMP00287 | 1779 | 2     | 13  | 0    | 0      | 0      | 40.2     | -81.9     | n.a.  | 45  | 3.98 | 1.877 | 0.513 | 226.83 |
| TMP00702 | 1822 | 11    | 9   | 15   | 30     | 0      | 39.952   | -82.012   | n.a.  | 34  | 3.98 | 1.877 | 0.513 | 247.01 |
| TMP00757 | 1833 | 2     | 4   | 0    | 0      | 0      | 42.3     | -85.6     | n.a.  | 30  | 3.83 | 1.106 | 0.205 | 196.62 |
| TMP00781 | 1836 | 7     | 9   | 2    | 15     | 0      | 41.5     | -81.7     | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 139.5  |
| TMP00796 | 1840 | 4     | 8   | 0    | 0      | 0      | 41.12    | -83.18    | n.a.  | 38  | 2.98 | 1.877 | 0.513 | 93.83  |
| TMP00799 | 1840 | 9     | 10  | 0    | 0      | 0      | 43.2     | -79.85    | n.a.  | 38  | 3.31 | 1.872 | 0.512 | 311.78 |
| TMP00822 | 1843 | 6     | 19  | 23   | 0      | 0      | 40.1     | -83.8     | n.a.  | 38  | 3.02 | 1.129 | 0.225 | 211.95 |
| TMP00884 | 1848 | 4     | 6   | 11   | 0      | 0      | 39.5     | -82.4     | n.a.  | 38  | 3.76 | 1.09  | 0.19  | 283.33 |
| TMP00913 | 1850 | 10    | 1   | 10   | 25     | 0      | 41.5     | -81.7     | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 139.5  |
| TMP00933 | 1852 | 1     | 26  | 0    | 0      | 0      | 39.34    | -82.99    | n.a.  | 38  | 2.65 | 1.886 | 0.515 | 292.56 |
| TMP00948 | 1852 | 9     | 15  | 0    | 0      | 0      | 41.63    | -80.17    | n.a.  | 30  | 3.98 | 1.877 | 0.513 | 259.2  |
| TMP00979 | 1854 | 1     | 11  | 2    | 0      | 0      | 39.4     | -83.7     | n.a.  | 34  | 3.6  | 1.093 | 0.193 | 287.37 |
| TMP01047 | 1857 | 2     | 27  | 20   | 30     | 0      | 42.22    | -81.05    | n.a.  | 30  | 3.82 | 1.106 | 0.205 | 184.94 |
| TMP01049 | 1857 | 3     | 1   | 1    | 40     | 0      | 41.8     | -80.6     | n.a.  | 30  | 3.11 | 1.373 | 0.364 | 221.31 |
| TMP01068 | 1858 | 4     | 10  | 11   | 30     | 0      | 41.7     | -81.3     | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 165.26 |
| TMP01146 | 1865 | 1     | 25  | 0    | 0      | 0      | 40.763   | -82.527   | n.a.  | 34  | 3.98 | 1.877 | 0.513 | 146.76 |
| TMP01199 | 1869 | 6     | 1   | 0    | 0      | 0      | 39.634   | -84.927   | n.a.  | 38  | 3.31 | 1.872 | 0.512 | 294.49 |
| TMP01222 | 1870 | 11    | 1   | 21   | 55     | 0      | 42       | -80       | n.a.  | 38  | 3.31 | 1.872 | 0.512 | 269.93 |
| TMP01277 | 1873 | 1     | 4   | 23   | 40     | 0      | 39.96    | -83       | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 223.75 |
| TMP01285 | 1873 | 4     | 23  | 4    | 14     | 0      | 39.7     | -84.2     | n.a.  | 30  | 2.71 | 1.238 | 0.299 | 263.7  |
| TMP01287 | 1873 | 4     | 30  | 0    | 0      | 0      | 43.3     | -79.9     | n.a.  | 38  | 2.65 | 1.886 | 0.515 | 313.05 |
| TMP01344 | 1875 | 6     | 18  | 13   | 43     | 0      | 40.2     | -84       | n.a.  | 30  | 4.6  | 1.27  | 0.316 | 205.5  |
| TMP01377 | 1876 | 6     | 1   | 0    | 0      | 0      | 40.4     | -84.2     | n.a.  | 30  | 3.27 | 1.371 | 0.363 | 190.64 |
| TMP01409 | 1877 | 8     | 17  | 16   | 50     | 0      | 42.3     | -83.3     | n.a.  | 30  | 3.13 | 1.097 | 0.197 | 37.85  |
| TMP01502 | 1881 | 4     | 20  | 0    | 0      | 0      | 41.6     | -85.8     | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 214.43 |
| TMP01525 | 1882 | 2     | 9   | 20   | 0      | 0      | 40.4     | -84.2     | n.a.  | 30  | 2.92 | 1.154 | 0.245 | 190.64 |
| TMP01561 | 1883 | 1     | 6   | 7    | 30     | 0      | 41.35    | -82.1     | n.a.  | 34  | 4.63 | 1.896 | 0.517 | 118.14 |
| TMP01568 | 1883 | 2     | 4   | 11   | 0      | 0      | 42.3     | -85.6     | n.a.  | 30  | 4.73 | 1.108 | 0.207 | 196.62 |
| TMP01625 | 1884 | 9     | 19  | 20   | 14     | 0      | 40.7     | -84.1     | n.a.  | 30  | 4.69 | 1.049 | 0.141 | 156.82 |

**Table 2.5AA-201 Fermi 3 Earthquake Catalog (Sheet 2 of 7)**

| ID       | Year | Month | Day | Hour | Minute | Second | Latitude | Longitude | Depth | Erh | E[M] | Efac  | SM    | R [km] |
|----------|------|-------|-----|------|--------|--------|----------|-----------|-------|-----|------|-------|-------|--------|
| TMP01645 | 1885 | 1     | 18  | 10   | 30     | 0      | 41.16    | -81.6     | n.a.  | 30  | 3.36 | 1.093 | 0.193 | 164.61 |
| TMP01691 | 1886 | 5     | 3   | 3    | 0      | 0      | 39.36    | -82.24    | n.a.  | 30  | 3.45 | 1.057 | 0.152 | 302.02 |
| TMP01865 | 1886 | 9     | 11  | 9    | 0      | 0      | 40.97    | -81.7     | n.a.  | 38  | 2.65 | 1.886 | 0.515 | 170.67 |
| TMP02379 | 1888 | 2     | 11  | 2    | 0      | 0      | 41       | -81.5     | n.a.  | 38  | 3.31 | 1.872 | 0.512 | 181.7  |
| TMP02454 | 1889 | 2     | 26  | 15   | 30     | 0      | 40.65    | -85.4     | n.a.  | 38  | 3.57 | 1.108 | 0.207 | 230.72 |
| TMP02513 | 1891 | 1     | 3   | 22   | 0      | 0      | 40.3     | -85.7     | n.a.  | 38  | 2.65 | 1.886 | 0.515 | 275.56 |
| TMP02552 | 1892 | 4     | 15  | 5    | 25     | 0      | 40.55    | -84.57    | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 191.38 |
| TMP02680 | 1893 | 12    | 20  | 2    | 0      | 0      | 41.62    | -85.95    | n.a.  | 34  | 3.96 | 1.106 | 0.205 | 226.25 |
| TMP02706 | 1894 | 2     | 27  | 22   | 0      | 0      | 42.12    | -86.46    | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 264.94 |
| TMP02745 | 1894 | 11    | 9   | 3    | 0      | 0      | 42.12    | -86.46    | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 264.94 |
| TMP02832 | 1896 | 3     | 15  | 7    | 0      | 0      | 40.3     | -84.2     | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 200.86 |
| TMP03000 | 1899 | 2     | 11  | 0    | 0      | 0      | 43.35    | -85.4     | n.a.  | 30  | 2.67 | 1.168 | 0.255 | 233.47 |
| TMP03001 | 1899 | 2     | 11  | 10   | 0      | 0      | 41.6     | -86.8     | n.a.  | 38  | 4.11 | 1.106 | 0.205 | 296.4  |
| TMP03015 | 1899 | 8     | 28  | 19   | 15     | 0      | 40.799   | -85.825   | n.a.  | 38  | 3.31 | 1.872 | 0.512 | 250.06 |
| TMP03020 | 1899 | 10    | 11  | 4    | 0      | 0      | 42.1     | -86.5     | n.a.  | 30  | 3.15 | 1.066 | 0.163 | 268.14 |
| TMP03023 | 1899 | 11    | 12  | 14   | 0      | 0      | 39.3     | -83       | n.a.  | 30  | 2.65 | 1.886 | 0.515 | 296.93 |
| TMP03078 | 1902 | 3     | 10  | 6    | 0      | 0      | 39.9     | -85.2     | n.a.  | 20  | 2.71 | 1.238 | 0.299 | 281.33 |
| TMP03091 | 1902 | 6     | 14  | 7    | 0      | 0      | 40.3     | -81.4     | n.a.  | 20  | 2.98 | 1.877 | 0.513 | 241.92 |
| TMP03227 | 1906 | 4     | 23  | 7    | 12     | 0      | 40.7     | -83.6     | n.a.  | 20  | 3.31 | 1.872 | 0.512 | 143.13 |
| TMP03409 | 1910 | 2     | 25  | 0    | 0      | 0      | 43.2     | -79.8     | n.a.  | 25  | 2.65 | 1.886 | 0.515 | 315.46 |
| TMP03633 | 1918 | 2     | 22  | 0    | 0      | 0      | 42.8     | -84.2     | n.a.  | 20  | 2.65 | 1.886 | 0.515 | 121.08 |
| TMP03872 | 1925 | 3     | 27  | 4    | 6      | 0      | 39.5     | -83.9     | n.a.  | 20  | 3.31 | 1.872 | 0.512 | 279.09 |
| TMP03965 | 1926 | 10    | 28  | 11   | 0      | 0      | 41.7     | -83.6     | n.a.  | 20  | 2.65 | 1.886 | 0.515 | 40.36  |
| TMP03990 | 1927 | 2     | 17  | 5    | 30     | 0      | 40.7     | -82.5     | n.a.  | 20  | 2.65 | 1.886 | 0.515 | 154.09 |
| TMP04026 | 1927 | 10    | 29  | 0    | 0      | 0      | 40.9     | -81.2     | n.a.  | 20  | 3.31 | 1.872 | 0.512 | 208.66 |
| TMP04088 | 1928 | 10    | 27  | 0    | 0      | 0      | 40.4     | -84.1     | n.a.  | 20  | 2.62 | 1.156 | 0.246 | 187.35 |
| TMP04117 | 1929 | 3     | 8   | 9    | 6      | 0      | 40.4     | -84.2     | n.a.  | 39  | 3.62 | 1.107 | 0.206 | 190.64 |
| TMP04184 | 1930 | 6     | 26  | 21   | 45     | 0      | 40.5     | -84       | n.a.  | 20  | 3.13 | 1.122 | 0.219 | 173.91 |
| TMP04186 | 1930 | 7     | 11  | 0    | 15     | 0      | 40.6     | -83.2     | n.a.  | 20  | 2.65 | 1.886 | 0.515 | 151.54 |
| TMP04204 | 1930 | 9     | 30  | 20   | 40     | 0      | 40.3     | -84.3     | n.a.  | 39  | 3.13 | 1.176 | 0.26  | 204.28 |

**Table 2.5AA-201 Fermi 3 Earthquake Catalog (Sheet 3 of 7)**

| ID       | Year | Month | Day | Hour | Minute | Second | Latitude | Longitude | Depth | Erh | E[M] | Efac  | SM    | R [km] |
|----------|------|-------|-----|------|--------|--------|----------|-----------|-------|-----|------|-------|-------|--------|
| TMP04244 | 1931 | 3     | 21  | 15   | 48     | 0      | 40.4     | -84.2     | n.a.  | 20  | 2.65 | 1.152 | 0.243 | 190.64 |
| TMP04260 | 1931 | 6     | 10  | 8    | 30     | 0      | 41.3     | -84       | n.a.  | 20  | 3.08 | 1.091 | 0.191 | 95.8   |
| TMP04277 | 1931 | 9     | 20  | 23   | 4      | 54     | 40.43    | -84.27    | n.a.  | 22  | 4.58 | 1.723 | 0.477 | 190.13 |
| TMP04300 | 1932 | 1     | 21  | 0    | 0      | 0      | 41.1     | -81.6     | n.a.  | 20  | 2.62 | 1.38  | 0.367 | 168.37 |
| TMP04331 | 1933 | 2     | 23  | 3    | 20     | 0      | 40.3     | -84.2     | n.a.  | 20  | 3.31 | 1.112 | 0.211 | 200.86 |
| TMP04396 | 1934 | 10    | 29  | 20   | 7      | 0      | 42       | -80.2     | n.a.  | 20  | 3.07 | 1.135 | 0.23  | 253.38 |
| TMP04501 | 1936 | 1     | 31  | 19   | 30     | 0      | 41.2     | -83.2     | n.a.  | 20  | 2.65 | 1.886 | 0.515 | 84.84  |
| TMP04527 | 1936 | 8     | 26  | 9    | 55     | 0      | 41.4     | -80.4     | n.a.  | 25  | 2.65 | 1.886 | 0.515 | 245.96 |
| TMP04537 | 1936 | 10    | 8   | 16   | 30     | 0      | 39.3     | -84.4     | n.a.  | 20  | 2.99 | 1.123 | 0.22  | 311.31 |
| TMP04560 | 1937 | 3     | 9   | 5    | 44     | 35.5   | 40.4     | -84.2     | 3     | 17  | 5.11 | 1.27  | 0.316 | 190.64 |
| TMP04569 | 1937 | 4     | 23  | 17   | 15     | 0      | 40.7     | -84       | n.a.  | 20  | 2.91 | 1.073 | 0.172 | 153.27 |
| TMP04610 | 1938 | 2     | 12  | 6    | 27     | 0      | 41.6     | -87       | n.a.  | 20  | 3.69 | 1.107 | 0.206 | 312.86 |
| TMP04612 | 1938 | 3     | 13  | 16   | 10     | 0      | 42.4     | -83.2     | n.a.  | 28  | 2.85 | 1.24  | 0.3   | 49.12  |
| TMP04725 | 1939 | 1     | 14  | 8    | 10     | 0      | 43.25    | -79.85    | n.a.  | 25  | 3.11 | 1.055 | 0.15  | 314.18 |
| TMP04753 | 1939 | 3     | 18  | 13   | 3      | 0      | 40.4     | -84.1     | n.a.  | 25  | 2.93 | 1.128 | 0.224 | 187.35 |
| TMP04860 | 1940 | 6     | 16  | 4    | 30     | 0      | 40.9     | -82.3     | n.a.  | 20  | 2.65 | 1.886 | 0.515 | 142.76 |
| TMP04999 | 1943 | 3     | 9   | 3    | 25     | 24.9   | 41.63    | -81.31    | 7     | 17  | 4.31 | 1.019 | 0.089 | 166.09 |
| TMP05105 | 1944 | 11    | 13  | 11   | 52     | 0      | 40.4     | -84.4     | n.a.  | 20  | 3.71 | 1.107 | 0.206 | 198.13 |
| TMP05222 | 1947 | 8     | 10  | 2    | 46     | 41.3   | 41.93    | -85       | 2     | 17  | 4.43 | 1.03  | 0.112 | 143.9  |
| TMP05329 | 1950 | 4     | 20  | 0    | 0      | 0      | 39.8     | -84.2     | n.a.  | 20  | 2.65 | 1.886 | 0.515 | 253.09 |
| TMP05368 | 1951 | 12    | 3   | 7    | 2      | 0      | 41.6     | -81.4     | n.a.  | 20  | 2.8  | 1.083 | 0.183 | 159.66 |
| TMP05416 | 1952 | 6     | 20  | 9    | 38     | 8.6    | 39.64    | -82.02    | 9     | 17  | 3.76 | 1.057 | 0.152 | 278.66 |
| TMP05449 | 1952 | 12    | 25  | 4    | 28     | 0      | 43.725   | -81.147   | 20    | 20  | 3.04 | 1.055 | 0.15  | 261.37 |
| TMP05474 | 1953 | 5     | 7   | 23   | 32     | 0      | 39.7     | -82.1     | n.a.  | 20  | 2.43 | 1.117 | 0.215 | 269.95 |
| TMP05479 | 1953 | 6     | 12  | 4    | 45     | 0      | 41.7     | -83.6     | n.a.  | 20  | 3.31 | 1.063 | 0.16  | 40.36  |
| TMP05604 | 1955 | 5     | 26  | 18   | 9      | 0      | 41.3     | -81.4     | n.a.  | 20  | 3.14 | 1.063 | 0.16  | 171.46 |
| TMP05640 | 1956 | 1     | 27  | 11   | 3      | 27     | 40.5     | -84       | n.a.  | 20  | 3.52 | 1.092 | 0.192 | 173.91 |
| TMP05713 | 1957 | 6     | 29  | 11   | 25     | 0      | 43.353   | -81.003   | 18    | 20  | 3.4  | 1.055 | 0.15  | 241.2  |
| TMP05769 | 1958 | 8     | 4   | 20   | 25     | 0      | 43.13    | -80       | n.a.  | 25  | 3.2  | 1.079 | 0.178 | 297.44 |
| TMP05797 | 1959 | 2     | 9   | 2    | 0      | 0      | 43       | -81       | n.a.  | 20  | 2.33 | 1.089 | 0.189 | 218.71 |

**Table 2.5AA-201 Fermi 3 Earthquake Catalog (Sheet 4 of 7)**

| ID       | Year | Month | Day | Hour | Minute | Second | Latitude | Longitude | Depth | Erh | E[M] | Efac  | SM    | R [km] |
|----------|------|-------|-----|------|--------|--------|----------|-----------|-------|-----|------|-------|-------|--------|
| TMP05867 | 1961 | 2     | 22  | 9    | 45     | 3      | 41.2     | -83.3     | n.a.  | 20  | 3.62 | 1.107 | 0.206 | 84.74  |
| TMP06684 | 1967 | 4     | 8   | 5    | 40     | 30.5   | 39.65    | -82.53    | 1     | 6   | 3.47 | 1.062 | 0.158 | 264.45 |
| TMP06862 | 1968 | 7     | 26  | 15   | 2      | 53.7   | 40.4     | -84.2     | n.a.  | 28  | 2.85 | 1.068 | 0.166 | 190.64 |
| TMP06890 | 1968 | 10    | 31  | 0    | 0      | 0      | 43       | -83       | n.a.  | 20  | 3.27 | 1.082 | 0.181 | 117.6  |
| TMP07628 | 1974 | 9     | 29  | 2    | 26     | 19.1   | 41.21    | -83.49    | 1     | 17  | 2.56 | 1.105 | 0.204 | 85.7   |
| TMP07767 | 1975 | 2     | 3   | 10   | 31     | 0      | 41.3     | -83.2     | n.a.  | 28  | 3.21 | 1.117 | 0.215 | 73.73  |
| TMP08175 | 1976 | 2     | 2   | 21   | 14     | 0      | 41.968   | -82.679   | 10    | 6   | 3.01 | 1.124 | 0.221 | 48.24  |
| TMP08176 | 1976 | 2     | 2   | 21   | 14     | 0      | 41.88    | -83.73    | 5     | 6   | 3.14 | 1.045 | 0.136 | 39.78  |
| TMP08697 | 1977 | 6     | 17  | 15   | 39     | 46.9   | 40.71    | -84.71    | 1     | 39  | 3.07 | 1.037 | 0.123 | 184.44 |
| TMP10544 | 1980 | 8     | 20  | 9    | 34     | 0      | 42       | -83.03    | 5     | 8   | 3.25 | 1.026 | 0.103 | 19.68  |
| TMP10644 | 1980 | 10    | 14  | 0    | 58     | 55     | 43.16    | -80.56    | 5     | 8   | 3.11 | 1.049 | 0.141 | 258.58 |
| TMP10823 | 1981 | 1     | 7   | 5    | 2      | 0      | 43.18    | -80.38    | 6.7   | 8   | 2.38 | 1.06  | 0.156 | 272.4  |
| TMP11275 | 1981 | 8     | 28  | 10   | 51     | 0      | 43.15    | -80.59    | 1     | 8   | 2.82 | 1.124 | 0.221 | 255.91 |
| TMP11312 | 1981 | 9     | 5   | 5    | 49     | 0      | 42.8     | -81.41    | 9     | 8   | 2.67 | 1.153 | 0.244 | 178.59 |
| TMP12431 | 1982 | 12    | 23  | 7    | 6      | 0      | 42.76    | -81.39    | 10    | 8   | 2.48 | 1.074 | 0.173 | 177.77 |
| TMP12489 | 1983 | 1     | 22  | 7    | 46     | 58     | 41.75    | -81.02    | 10    | 2   | 2.66 | 1.066 | 0.164 | 187.32 |
| TMP13176 | 1984 | 1     | 14  | 20   | 14     | 31     | 41.65    | -83.43    | n.a.  | 2   | 2.68 | 1.066 | 0.163 | 37.31  |
| TMP14144 | 1985 | 4     | 14  | 3    | 44     | 0      | 42.96    | -80.04    | 18    | 2   | 2.68 | 1.074 | 0.173 | 286.97 |
| TMP14147 | 1985 | 4     | 14  | 11   | 39     | 54     | 41.59    | -80.4     | 18    | 2   | 2.23 | 1.074 | 0.173 | 241.11 |
| TMP14278 | 1985 | 7     | 11  | 10   | 13     | 0      | 42.3     | -80.79    | 18    | 2   | 2.29 | 1.049 | 0.141 | 207.49 |
| TMP14710 | 1986 | 1     | 31  | 16   | 46     | 42.3   | 41.65    | -81.162   | 2     | 2   | 4.65 | 1.103 | 0.202 | 177.61 |
| TMP15027 | 1986 | 7     | 12  | 8    | 19     | 37.9   | 40.537   | -84.371   | 10    | 2   | 4.37 | 1.035 | 0.12  | 183.62 |
| TMP15878 | 1987 | 7     | 13  | 5    | 49     | 17.43  | 41.9     | -80.77    | 5     | 25  | 3.61 | 1.013 | 0.073 | 206.44 |
| TMP16394 | 1988 | 3     | 31  | 16   | 30     | 3.87   | 41.313   | -81.046   | n.a.  | 2   | 2.37 | 1.153 | 0.244 | 197.92 |
| TMP16575 | 1988 | 6     | 27  | 4    | 46     | 31.34  | 41.818   | -81.229   | n.a.  | 2   | 2.33 | 1.074 | 0.173 | 169.18 |
| TMP16761 | 1988 | 10    | 22  | 16   | 46     | 29.1   | 40.44    | -84.11    | 10.8  | 2   | 2.5  | 1.117 | 0.215 | 183.54 |
| TMP16926 | 1988 | 12    | 28  | 23   | 28     | 0      | 41.636   | -81.166   | 5     | 2   | 2.37 | 1.153 | 0.244 | 177.61 |
| TMP17339 | 1989 | 8     | 1   | 16   | 12     | 48.75  | 41.898   | -80.758   | n.a.  | 2   | 2.37 | 1.153 | 0.244 | 207.44 |
| TMP17823 | 1990 | 4     | 17  | 10   | 27     | 34.7   | 40.46    | -84.852   | 5     | 2   | 2.77 | 1.078 | 0.177 | 213.58 |
| TMP17910 | 1990 | 6     | 4   | 11   | 26     | 47.06  | 41.098   | -83.638   | 5     | 2   | 2.39 | 1.05  | 0.143 | 101.01 |

**Table 2.5AA-201 Fermi 3 Earthquake Catalog (Sheet 5 of 7)**

| ID       | Year | Month | Day | Hour | Minute | Second | Latitude | Longitude | Depth | Erh | E[M] | Efac  | SM    | R [km] |
|----------|------|-------|-----|------|--------|--------|----------|-----------|-------|-----|------|-------|-------|--------|
| TMP18376 | 1991 | 1     | 26  | 3    | 21     | 22.6   | 41.536   | -81.453   | 5     | 2   | 3.35 | 1.049 | 0.141 | 157.46 |
| TMP19066 | 1992 | 3     | 15  | 6    | 13     | 55.2   | 41.911   | -81.245   | 5     | 2   | 3.19 | 1.045 | 0.136 | 167.07 |
| TMP19088 | 1992 | 3     | 26  | 3    | 43     | 16.6   | 41.883   | -80.806   | 2     | 2   | 2.33 | 1.074 | 0.173 | 203.56 |
| TMP19945 | 1993 | 10    | 16  | 6    | 30     | 5.3    | 41.796   | -81.28    | 5.7   | 2   | 3.31 | 1.029 | 0.109 | 165.25 |
| TMP19974 | 1993 | 11    | 1   | 0    | 14     | 15.3   | 42.704   | -81.286   | 8.5   | 2   | 2.37 | 1.153 | 0.244 | 182.38 |
| TMP20202 | 1994 | 4     | 4   | 15   | 14     | 44     | 40.4     | -84.4     | 5     | 2   | 2.58 | 1.124 | 0.221 | 198.13 |
| TMP20381 | 1994 | 7     | 24  | 22   | 12     | 0      | 43.15    | -79.887   | 4.5   | 2   | 2.27 | 1.153 | 0.244 | 306.72 |
| TMP20425 | 1994 | 9     | 2   | 21   | 23     | 6.52   | 42.798   | -84.604   | 5     | 2   | 3.16 | 1.066 | 0.164 | 144.38 |
| TMP20636 | 1995 | 1     | 12  | 21   | 25     | 51     | 40.8     | -82.68    | n.a.  | 2   | 2.98 | 1.153 | 0.244 | 138.03 |
| TMP20712 | 1995 | 2     | 19  | 12   | 57     | 6      | 39.12    | -83.47    | 10    | 2   | 3.55 | 1.071 | 0.169 | 316.62 |
| TMP20719 | 1995 | 2     | 23  | 9    | 32     | 14.4   | 41.995   | -80.917   | 15    | 2   | 2.58 | 1.083 | 0.183 | 194.05 |
| TMP21291 | 1995 | 12    | 30  | 10   | 32     | 0      | 42.849   | -82.313   | 5     | 2   | 2.27 | 1.153 | 0.244 | 125.87 |
| TMP22810 | 1998 | 1     | 27  | 0    | 38     | 25.6   | 41.862   | -81.197   | 12    | 2   | 2.54 | 1.074 | 0.173 | 171.37 |
| TMP23346 | 1998 | 9     | 25  | 19   | 52     | 53.2   | 41.478   | -80.411   | 5     | 2   | 4.55 | 1.072 | 0.171 | 242.86 |
| TMP23468 | 1998 | 11    | 25  | 2    | 55     | 6      | 41.071   | -82.405   | 5     | 2   | 2.48 | 1.074 | 0.173 | 122.09 |
| TMP23514 | 1998 | 12    | 25  | 21   | 22     | 3.1    | 41.15    | -81.46    | n.a.  | 2   | 2.34 | 1.074 | 0.173 | 175.11 |
| TMP24182 | 1999 | 9     | 22  | 10   | 2      | 19.9   | 41.72    | -81.508   | 1.1   | 2   | 2.48 | 1.049 | 0.141 | 147.87 |
| TMP25431 | 2000 | 8     | 6   | 2    | 2      | 31.5   | 40.77    | -81.264   | 28.5  | 2   | 2.67 | 1.157 | 0.247 | 213.1  |
| TMP25441 | 2000 | 8     | 7   | 2    | 2      | 30.4   | 40.96    | -81.15    | 5     | 25  | 2.82 | 1.025 | 0.101 | 208.41 |
| TMP26201 | 2001 | 1     | 26  | 3    | 3      | 22.2   | 41.906   | -80.788   | 7     | 2   | 3.86 | 1.024 | 0.1   | 204.92 |
| TMP27287 | 2001 | 7     | 26  | 10   | 46     | 51.4   | 41.01    | -82.55    | n.a.  | 2   | 2.57 | 1.048 | 0.14  | 121.33 |
| TMP27840 | 2001 | 10    | 23  | 1    | 33     | 18.8   | 42.34    | -84.76    | n.a.  | 2   | 2.45 | 1.067 | 0.165 | 130.59 |
| TMP29128 | 2002 | 4     | 28  | 0    | 7      | 20.9   | 41.85    | -81.37    | 5     | 2   | 2.36 | 1.049 | 0.141 | 157.19 |
| TMP30908 | 2003 | 3     | 18  | 6    | 4      | 24     | 44.69    | -82.89    | 5     | 2   | 3.45 | 1.198 | 0.275 | 305.16 |
| TMP31284 | 2003 | 6     | 30  | 19   | 21     | 17.2   | 41.8     | -81.2     | 4     | 2   | 3.22 | 1.036 | 0.121 | 171.79 |
| TMP31327 | 2003 | 7     | 17  | 0    | 44     | 10     | 41.86    | -80.76    | 2     | 2   | 2.29 | 1.049 | 0.141 | 207.53 |
| TMP31973 | 2004 | 1     | 30  | 12   | 10     | 4.1    | 40.67    | -84.65    | 5     | 2   | 2.51 | 1.072 | 0.171 | 184.65 |
| TMP32105 | 2004 | 3     | 14  | 5    | 5      | 10.29  | 41.77    | -81.24    | 5     | 2   | 2.36 | 1.074 | 0.173 | 168.92 |
| TMP32605 | 2004 | 6     | 30  | 4    | 3      | 14.5   | 41.78    | -81.08    | 5     | 2   | 2.81 | 1.067 | 0.165 | 181.94 |
| TMP35119 | 2006 | 1     | 6   | 3    | 2      | 3.27   | 41.77    | -81.45    | 5     | 2   | 2.24 | 1.074 | 0.173 | 151.67 |

**Table 2.5AA-201 Fermi 3 Earthquake Catalog (Sheet 6 of 7)**

| ID       | Year | Month | Day | Hour | Minute | Second | Latitude | Longitude | Depth | Erh  | E[M] | Efac  | SM    | R [km] |
|----------|------|-------|-----|------|--------|--------|----------|-----------|-------|------|------|-------|-------|--------|
| TMP35601 | 2006 | 5     | 12  | 1    | 51     | 11.1   | 40.74    | -84.08    | 5     | 2    | 2.5  | 1.124 | 0.221 | 152.08 |
| TMP35756 | 2006 | 6     | 20  | 20   | 11     | 18.5   | 41.84    | -81.23    | 5     | 2    | 3.53 | 1.024 | 0.1   | 168.85 |
| TMP35968 | 2006 | 8     | 15  | 6    | 8      | 54.9   | 40.71    | -84.11    | 5     | 2    | 2.26 | 1.124 | 0.221 | 156.2  |
| TMP36949 | 2007 | 3     | 12  | 23   | 18     | 16.41  | 41.28    | -81.38    | 5     | 25   | 3.2  | 1.049 | 0.141 | 173.94 |
| TMP37699 | 2007 | 9     | 28  | 8    | 46     | 5.91   | 41.969   | -80.579   | 6.7   | 2    | 2.29 | 1.074 | 0.173 | 222.03 |
| TMP37784 | 2007 | 10    | 17  | 20   | 4      | 9.74   | 41.75    | -81.42    | 5     | 25   | 2.94 | 1.049 | 0.141 | 154.48 |
| TMP38076 | 2008 | 1     | 9   | 1    | 34     | 46.7   | 41.72    | -81.43    | 5     | 2    | 2.81 | 1.067 | 0.165 | 154.24 |
| TMP38658 | 2008 | 5     | 31  | 19   | 3      | 12.4   | 41.4503  | -79.586   | 25    | 2    | 2.28 | 1.084 | 0.184 | 310.72 |
| TMP38969 | 2008 | 9     | 18  | 1    | 4      | 16.7   | 41.78    | -81.43    | 5     | 28   | 2.4  | 1.049 | 0.142 | 153.15 |
| TMP38997 | 2008 | 9     | 30  | 1    | 6      | 38.55  | 40.41    | -84.31    | 5     | 2    | 3.05 | 1.062 | 0.159 | 193.62 |
| ADD_001  | 2009 | 2     | 14  | 13   | 16     | 27.24  | 41.84    | -81       | 5     | 2    | 2.17 | 1.148 | 0.240 | 187.85 |
| ADD_003  | 2010 | 2     | 25  | 22   | 13     | 16     | 41.352   | -83.407   | 5     | 2    | 2.37 | 1.148 | 0.240 | 68.83  |
| ADD_004  | 2010 | 3     | 8   | 10   | 10     | 38     | 42.163   | -83.07    | 18    | 2    | 1.87 | 1.148 | 0.240 | 27.51  |
| ADD_005  | 2010 | 4     | 25  | 2    | 0      | 39.26  | 41.78    | -81.08    | 5     | 2    | 2.49 | 1.064 | 0.161 | 181.94 |
| ADD_006  | 2010 | 5     | 14  | 2    | 27     | 2      | 41.38    | -83.284   | 5     | 2    | 2.18 | 1.071 | 0.170 | 64.68  |
| ADD_007  | 2010 | 5     | 17  | 21   | 29     | 5.65   | 41.24    | -81.51    | 5     | 2    | 2.13 | 1.071 | 0.170 | 166.41 |
| ADD_008  | 2010 | 6     | 10  | 16   | 32     | 22.31  | 41.76    | -81.43    | 5     | 2    | 2.06 | 1.064 | 0.161 | 153.48 |
| ADD_011  | 2010 | 12    | 10  | 21   | 26     | 32.79  | 41.514   | -80.333   | 5     | 2    | 2.36 | 1.080 | 0.179 | 248.29 |
| ADD_012  | 2010 | 12    | 30  | 12   | 55     | 21.96  | 40.43    | -85.914   | 5     | 1.06 | 3.79 | 1.020 | 0.091 | 279.91 |
| ADD_013  | 2011 | 2     | 23  | 14   | 21     | 32.42  | 42.157   | -82.43    | 5     | 2    | 2.41 | 1.119 | 0.216 | 72.12  |
| ADD_014  | 2011 | 2     | 24  | 10   | 13     | 51     | 42.138   | -82.373   | 5     | 2    | 2.07 | 1.148 | 0.240 | 76.05  |
| ADD_015  | 2011 | 3     | 17  | 10   | 53     | 9.51   | 41.11    | -80.68    | 5     | 2    | 2.18 | 1.071 | 0.170 | 235.02 |
| ADD_016  | 2011 | 6     | 5   | 15   | 35     | 21.05  | 41.03    | -82.08    | 5     | 2    | 2.76 | 1.064 | 0.161 | 142.96 |
| ADD_017  | 2011 | 8     | 22  | 8    | 0      | 31     | 41.09    | -80.713   | 5     | 2    | 2.07 | 1.148 | 0.240 | 233.46 |
| ADD_018  | 2011 | 8     | 25  | 19   | 44     | 21     | 41.119   | -80.733   | 5     | 2    | 1.97 | 1.148 | 0.240 | 230.57 |
| ADD_020  | 2011 | 8     | 31  | 17   | 36     | 2.67   | 39.51    | -81.47    | 5     | 2    | 2.74 | 1.119 | 0.216 | 311.81 |
| ADD_021  | 2011 | 9     | 2   | 21   | 3      | 26     | 41.126   | -80.711   | 1     | 2    | 1.97 | 1.148 | 0.240 | 231.92 |
| ADD_023  | 2011 | 9     | 26  | 1    | 6      | 10.84  | 41.115   | -80.682   | 5     | 2    | 2.26 | 1.043 | 0.133 | 234.64 |
| ADD_024  | 2011 | 9     | 30  | 0    | 52     | 38.71  | 41.135   | -80.685   | 5     | 2    | 2.66 | 1.038 | 0.125 | 233.5  |
| ADD_025  | 2011 | 10    | 20  | 22   | 41     | 9      | 41.127   | -80.683   | 1     | 2    | 1.97 | 1.148 | 0.240 | 234.01 |

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**Table 2.5AA-201    Fermi 3 Earthquake Catalog (Sheet 7 of 7)**

| ID      | Year | Month | Day | Hour | Minute | Second | Latitude | Longitude | Depth | Erh  | E[M] | Efac  | SM    | R [km] |
|---------|------|-------|-----|------|--------|--------|----------|-----------|-------|------|------|-------|-------|--------|
| ADD_026 | 2011 | 11    | 25  | 6    | 47     | 27     | 41.173   | -80.732   | 5     | 2    | 2.07 | 1.148 | 0.240 | 228.19 |
| ADD_027 | 2011 | 12    | 24  | 6    | 24     | 57.38  | 41.11    | -80.69    | 3     | 2    | 2.54 | 1.057 | 0.152 | 234.26 |
| ADD_029 | 2011 | 12    | 31  | 20   | 4      | 59.01  | 41.11    | -80.69    | 3.68  | 2    | 3.66 | 1.064 | 0.161 | 234.26 |
| ADD_030 | 2012 | 1     | 26  | 22   | 35     | 55.79  | 41.576   | -85.49    | 4     | 1.5  | 2.32 | 1.047 | 0.139 | 189.83 |
| ADD_031 | 2012 | 9     | 7   | 21   | 56     | 35.1   | 41.864   | -83.076   | 5     | 1.36 | 1.83 | 1.071 | 0.170 | 18.81  |