

## Katalog wstrząsów naturalnych w Polsce 1496-2013

Opracowanie Beata Plesiewicz (bples@igf.edu.pl), Zakład Sejsmologii, Instytut Geofizyki Polskiej Akademii Nauk, 2024

Cytowanie: Plesiewicz B. (2024) Katalog wstrząsów naturalnych w Polsce 1496-2013, doi: 10.25171/InstGeoph\_PAS\_Catalog\_earthquakes\_Poland\_2024\_001



| PAŃSTWO | ROK  | MIESIĄC | DZIEŃ | GODZINA | MINUTA | SEKUNDA | N       | E       | DOKŁADNOŚĆ<br>POZYCJI [km] | GŁĘBOKOŚĆ<br>[km] | Mm  | MS | mb | ML | Mw | I <sub>MSK-64</sub> | I <sub>EMS-98</sub> | REGION                        | ŹRÓDŁO                              |
|---------|------|---------|-------|---------|--------|---------|---------|---------|----------------------------|-------------------|-----|----|----|----|----|---------------------|---------------------|-------------------------------|-------------------------------------|
| Polska  | 1496 | 6       | 23    |         |        |         | 50.3000 | 17.3000 | 50                         |                   | 3.6 |    |    |    |    |                     | 5.0                 | Przedgórze Sudeckie           | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1562 | 2       | 10    |         |        |         | 50.5000 | 16.7000 | 50                         |                   | 4.9 |    |    |    |    |                     | 7.0                 | Sudety                        | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1594 | 9       | 15    |         |        |         | 51.1000 | 15.9000 | 50                         |                   | 3.6 |    |    |    |    |                     | 5.0                 | Przedgórze Sudeckie           | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1606 |         |       |         |        |         | 53.2000 | 16.2000 | 30                         |                   | 4.3 |    |    |    |    |                     | 6.0                 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1615 | 2       | 13    |         |        |         | 50.5000 | 16.7000 | 50                         |                   | 3.6 |    |    |    |    |                     | 5.0                 | Sudety                        | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1716 |         |       |         |        |         | 49.4000 | 19.9000 | 50                         |                   | 4.0 |    |    |    |    |                     | 6.0                 | Podhale                       | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1717 | 3       | 11    |         |        |         | 49.4000 | 19.9000 | 50                         |                   | 4.9 |    |    |    |    |                     | 7.0                 | Podhale                       | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1751 | 6       | 31    |         |        |         | 50.8000 | 15.6000 | 50                         |                   | 4.6 |    |    |    |    |                     | 6.5                 | Sudety                        | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1774 | 1       | 26    |         |        |         | 50.1000 | 18.2000 | 30                         |                   | 4.9 |    |    |    |    |                     | 7.0                 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1775 | 1       | 24    | 2       | 9      |         | 51.1000 | 17.0000 | 30                         |                   | 2.7 |    |    |    |    |                     | 4.0                 | Sudety                        | Guterch B. 2015                     |
| Polska  | 1778 | 5       | 10    |         |        |         | 51.0000 | 15.9000 | 50                         |                   | 3.5 |    |    |    |    |                     | 5.5                 | Przedgórze Sudeckie           | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1785 | 8       | 22    | 7       |        |         | 49.9000 | 18.8000 | 30                         | 16                | 4.6 |    |    |    |    |                     | 6.0                 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1786 | 1       | 3     |         |        |         | 53.4000 | 14.6000 | 30                         |                   | 2.7 |    |    |    |    |                     | 3.5                 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1786 | 3       | 4     |         |        |         | 50.5000 | 16.7000 | 50                         |                   | 3.0 |    |    |    |    |                     | 4.0                 | Sudety                        | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1786 | 12      | 3     | 17      |        |         | 50.4000 | 19.3000 | 30                         | 35                | 5.4 |    |    |    |    |                     | 7.0                 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1790 | 3       | 13    |         |        |         | 51.1000 | 17.0000 | 50                         |                   | 3.0 |    |    |    |    |                     | 4.0                 | Przedgórze Sudeckie           | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1799 | 2       |       |         |        |         | 51.1000 | 17.0000 | 50                         |                   | 3.0 |    |    |    |    |                     | 4.0                 | Przedgórze Sudeckie           | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1799 | 10      |       | 20      |        |         | 50.9000 | 15.7500 | 30                         |                   | 3.0 |    |    |    |    |                     | 4.0                 | Sudety                        | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1803 | 1       | 8     | 23      | 15     |         | 53.1000 | 23.1000 | 50                         |                   | 4.0 |    |    |    |    |                     | 5.5                 | Platforma Wschodnioeuropejska | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1823 | 9       | 9     |         |        |         | 50.2000 | 17.8000 | 50                         |                   | 3.0 |    |    |    |    |                     | 4.0                 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1824 | 12      | 13    |         |        |         | 51.8000 | 17.6000 | 50                         |                   | 3.0 |    |    |    |    |                     | 4.5                 | Strefa Teisseyre'a-Tornquista | Lizurek i in. 2013, Guterch B. 2015 |
| Polska  | 1837 | 2       | 5     | 23      |        |         | 50.6800 | 21.0400 | 30                         |                   | 4.3 |    |    |    |    |                     | 6.0                 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1837 | 2       | 18    | 6       |        |         | 50.2400 | 19.1700 | 50                         |                   | 3.5 |    |    |    |    |                     | 5.0                 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1841 | 8       | 6     | 14      |        |         | 51.5000 | 20.5800 | 50                         |                   | 4.0 |    |    |    |    |                     | 5.5                 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1842 | 2       | 24    | 14      | 7      |         | 50.0000 | 20.0000 | 50                         |                   | 3.1 |    |    |    |    |                     | 4.0                 | Zapadliśko Przedkarpackie     | Guterch B. 2009a, Guterch B. 2015   |
| Polska  | 1842 | 2       | 24    | 20      | 27     |         | 50.0000 | 20.0000 | 50                         |                   | 3.1 |    |    |    |    |                     | 4.0                 | Zapadliśko Przedkarpackie     | Guterch B. 2009a, Guterch B. 2015   |

|        |      |    |    |    |    |  |         |         |    |   |     |  |  |  |  |  |     |                               |                                   |
|--------|------|----|----|----|----|--|---------|---------|----|---|-----|--|--|--|--|--|-----|-------------------------------|-----------------------------------|
| Polska | 1842 | 3  | 8  |    |    |  | 50.0000 | 20.0000 | 50 |   |     |  |  |  |  |  | 4.0 |                               | Guterch B. 2015                   |
| Polska | 1855 | 1  | 15 | 8  | 30 |  | 49.8000 | 18.8000 | 50 |   | 3.0 |  |  |  |  |  | 4.0 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1855 | 1  | 15 | 9  | 45 |  | 49.8000 | 18.8000 | 50 |   | 3.0 |  |  |  |  |  | 4.0 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1857 | 12 | 16 |    |    |  | 49.7000 | 20.7000 | 50 |   | 3.1 |  |  |  |  |  | 4.0 | Karpaty - Beskid Sądecki      | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1872 | 12 | 26 |    |    |  | 49.8000 | 19.0000 | 50 |   | 3.0 |  |  |  |  |  | 4.0 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1876 | 7  | 12 |    |    |  | 49.8000 | 18.6000 | 30 |   | 3.0 |  |  |  |  |  | 4.0 | Beskid Śląski                 | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1877 | 11 | 25 | 4  |    |  | 50.4000 | 17.0000 | 30 |   | 3.6 |  |  |  |  |  | 5.0 | Sudety                        | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1895 | 6  | 11 | 9  | 27 |  | 50.7500 | 17.0000 | 30 | 8 | 4.5 |  |  |  |  |  | 6.5 | Przedgórze Sudeckie           | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1905 | 7  | 19 | 5  |    |  | 53.4000 | 14.6000 | 50 |   | 2.0 |  |  |  |  |  | 3.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2015                   |
| Polska | 1907 | 8  | 29 |    |    |  | 54.0000 | 14.6000 | 50 |   | 3.0 |  |  |  |  |  | 4.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1908 | 12 | 30 | 3  | 35 |  | 54.3000 | 22.3000 | 50 |   | 3.0 |  |  |  |  |  | 4.0 | Platforma Wschodnioeuropejska | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1909 | 2  | 11 | 23 |    |  | 54.1000 | 15.6000 | 30 |   | 4.0 |  |  |  |  |  | 6.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1909 | 2  | 12 | 6  |    |  | 54.1000 | 15.6000 | 30 |   | 4.0 |  |  |  |  |  | 6.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2015                   |
| Polska | 1909 | 5  | 6  |    |    |  | 49.4000 | 21.0000 | 50 |   | 3.1 |  |  |  |  |  | 4.0 | Karpaty - Beskid Sądecki      | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1912 | 12 | 1  |    |    |  | 54.7000 | 17.5000 | 50 |   | 3.0 |  |  |  |  |  | 4.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1920 | 9  | 13 | 23 |    |  | 53.6000 | 15.2000 | 50 |   | 3.0 |  |  |  |  |  | 4.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1924 | 12 | 15 | 22 | 45 |  | 53.9000 | 14.3000 | 50 |   | 3.0 |  |  |  |  |  | 4.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1926 | 11 | 20 |    |    |  | 51.2800 | 19.9000 | 30 |   | 4.2 |  |  |  |  |  | 6.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1928 | 6  | 3  | 1  |    |  | 54.2000 | 16.0000 | 30 |   | 2.7 |  |  |  |  |  | 4.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2015                   |
| Polska | 1928 | 6  | 11 | 15 |    |  | 54.2000 | 16.0000 | 30 |   | 3.6 |  |  |  |  |  | 5.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 6  | 4  |    |  | 50.6000 | 21.2000 | 30 |   | 4.0 |  |  |  |  |  | 5.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 6  | 4  | 15 |  | 51.7500 | 22.2000 | 30 |   | 4.3 |  |  |  |  |  | 6.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 6  | 4  | 15 |  | 50.6100 | 20.3200 | 30 |   | 4.0 |  |  |  |  |  | 5.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 9  | 4  |    |  | 50.6000 | 21.2000 | 30 |   | 4.0 |  |  |  |  |  | 5.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 10 |    |    |  | 50.6000 | 20.0300 | 30 |   | 4.3 |  |  |  |  |  | 6.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 11 | 22 |    |  | 50.6000 | 21.2000 | 30 |   | 4.0 |  |  |  |  |  | 5.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 11 | 22 | 30 |  | 51.7500 | 22.2000 | 30 |   | 4.3 |  |  |  |  |  | 6.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 11 | 23 |    |  | 50.8500 | 20.3000 | 30 |   | 4.0 |  |  |  |  |  | 5.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 11 | 23 |    |  | 50.8700 | 20.7000 | 30 |   | 4.0 |  |  |  |  |  | 5.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |
| Polska | 1932 | 2  | 11 | 23 |    |  | 50.6100 | 20.3200 | 30 |   | 4.0 |  |  |  |  |  | 5.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015 |

|        |      |   |    |    |    |      |         |         |    |   |     |  |     |     |  |     |                               |                                     |
|--------|------|---|----|----|----|------|---------|---------|----|---|-----|--|-----|-----|--|-----|-------------------------------|-------------------------------------|
| Polska | 1932 | 2 | 11 | 23 |    |      | 51.2000 | 22.6500 | 30 |   | 4.0 |  |     |     |  | 5.5 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015   |
| Polska | 1932 | 2 | 24 | 19 |    |      | 52.6000 | 20.0500 | 30 |   | 4.3 |  |     |     |  | 6.0 | Strefa Teisseyre'a-Tornquista | Guterch B. 2009a, Guterch B. 2015   |
| Polska | 1935 | 3 | 23 | 23 | 46 |      | 49.4500 | 19.8500 | 30 | 3 | 5.0 |  |     |     |  | 7.0 | Podhale                       | Guterch B. 2009a, Guterch B. 2015   |
| Polska | 1942 | 3 |    |    |    |      | 49.4000 | 19.9000 | 50 |   | 3.0 |  |     |     |  | 4.5 | Podhale                       | Guterch B. 2009a, Guterch B. 2015   |
| Polska | 1966 | 3 | 17 | 0  | 53 | 55.0 | 49.3000 | 19.9000 | 5  | 3 | 3.0 |  |     | 2.3 |  | 4.5 | Podhale                       | Guterch B. 2009a, Guterch B. 2015   |
| Polska | 1992 | 4 | 22 | 16 | 51 | 42.9 | 50.4200 | 16.3300 | 5  |   |     |  |     | 3.0 |  | 4.5 | Sudety                        | Draber i in. 2000a                  |
| Polska | 1992 | 6 | 28 | 23 | 18 | 30   | 49.4000 | 21.0300 | 5  |   |     |  |     | 3.2 |  |     | Krynica                       | Draber i in. 2000a, Guterch B. 2015 |
| Polska | 1992 | 6 | 28 | 23 | 22 | 17.5 | 49.4800 | 21.0800 | 5  |   |     |  |     | 2.2 |  |     | Krynica                       | Draber i in. 2000a                  |
| Polska | 1992 | 6 | 28 | 23 | 28 | 47.0 | 49.4500 | 21.1300 | 5  |   |     |  |     | 2.1 |  |     | Krynica                       | Draber i in. 2000a                  |
| Polska | 1992 | 6 | 29 | 0  | 29 | 48.0 | 49.5000 | 21.1200 | 5  |   | 3.6 |  |     | 3.1 |  | 5.5 | Uście Gorlickie               | Draber i in. 2000a                  |
| Polska | 1992 | 6 | 29 | 0  | 34 | 56.5 | 49.5300 | 21.0800 | 5  |   | 2.8 |  |     | 2.9 |  | 4.0 | Uście Gorlickie               | Draber i in. 2000a, Guterch B. 2015 |
| Polska | 1992 | 6 | 29 | 6  | 4  | 50   | 49.4000 | 20.9500 | 5  |   |     |  | 2.9 |     |  |     | Krynica                       | Guterch B. 2015                     |
| Polska | 1992 | 9 | 5  | 20 | 33 | 56   | 49.4200 | 21.0200 | 5  |   |     |  | 3.3 |     |  |     | Krynica                       | Draber i in. 2000a, Guterch B. 2015 |
| Polska | 1993 | 3 | 1  | 7  | 42 | 39.8 | 49.4800 | 21.0700 | 5  | 3 | 4.4 |  |     | 3.6 |  | 7.0 | Karpaty - Beskid Sądecki      | Guterch B. 2009a, Guterch B. 2015   |
| Polska | 1993 | 3 | 1  | 8  | 22 | 28.1 | 49.4700 | 20.9700 | 5  |   |     |  |     | 2.5 |  | 3.0 | Karpaty - Beskid Sądecki      | Draber i in. 2000b, Guterch B. 2015 |
| Polska | 1993 | 3 | 1  | 18 | 42 | 46.2 | 49.4000 | 21.0200 | 5  |   |     |  |     | 2.2 |  |     | Karpaty - Beskid Sądecki      | Draber i in. 2000b                  |
| Polska | 1994 | 6 | 1  | 15 |    |      | 53.8300 | 22.9000 | 50 |   | 4.0 |  |     |     |  | 5.5 | Platforma Wschodnioeuropejska | Guterch B. 2009a, Guterch B. 2015   |
| Polska | 1995 | 9 | 11 | 4  | 2  | 19.0 | 49.3900 | 19.9000 | 5  | 2 | 3.5 |  |     | 3.3 |  | 5.0 | Podhale                       | Guterch B. 2009a, Guterch B. 2015   |
| Polska | 1995 | 9 | 11 | 5  | 2  | 22.0 | 49.3900 | 19.8800 | 5  |   |     |  |     | 2.7 |  |     | Podhale                       | Draber i in. 2002, Guterch B. 2015  |
| Polska | 1995 | 9 | 11 | 5  | 15 | 12.0 | 49.4000 | 19.9000 | 5  |   |     |  |     | 2.3 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 6  | 59 | 13.0 | 49.4000 | 19.9000 | 5  |   |     |  |     | 2.3 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 7  | 58 | 28.0 | 49.4000 | 19.9000 | 5  |   |     |  |     | 2.3 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 8  | 10 | 56.0 | 49.4000 | 19.9000 | 5  |   |     |  |     | 2.4 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 9  | 2  | 34.0 | 49.3800 | 19.8400 | 5  |   |     |  |     | 2.6 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 9  | 42 | 30.0 | 49.3000 | 19.9000 | 5  |   |     |  |     | 2.5 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 10 | 6  | 40.0 | 49.3000 | 19.9000 | 5  |   |     |  |     | 2.4 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 14 | 14 | 42.0 | 49.3600 | 19.8400 | 5  |   |     |  |     | 2.5 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 17 | 17 | 20.0 | 49.3900 | 19.8800 | 5  |   |     |  |     | 2.8 |  |     | Podhale                       | Draber i in. 2002, Guterch B. 2015  |
| Polska | 1995 | 9 | 11 | 17 | 23 | 33.0 | 49.3800 | 19.8400 | 5  |   |     |  |     | 2.5 |  |     | Podhale                       | Draber i in. 2002                   |
| Polska | 1995 | 9 | 11 | 17 | 42 | 24.0 | 49.3700 | 19.8500 | 5  |   |     |  |     | 2.5 |  |     | Podhale                       | Draber i in. 2002                   |

|        |      |    |    |    |    |      |         |         |   |   |     |  |     |     |     |     |         |  |                                      |
|--------|------|----|----|----|----|------|---------|---------|---|---|-----|--|-----|-----|-----|-----|---------|--|--------------------------------------|
| Polska | 1995 | 10 | 13 | 5  | 47 | 16.0 | 49.4000 | 20.1000 | 5 | 2 | 2.9 |  |     |     |     |     | 4.0     | Podhale  | Guterch B. 2009a, Guterch B. 2015    |
| Polska | 1995 | 10 | 13 | 6  | 2  | 33.0 | 49.4100 | 20.1000 | 5 | 2 | 2.9 |  |     |     |     |     | 4.0     | Podhale  | Guterch B. 2009a, Guterch B. 2015    |
| Polska | 2000 | 2  | 10 | 8  | 5  | 56.0 | 49.4000 | 19.8000 | 5 |   |     |  |     |     | 2.4 |     |         | Podhale  | Draber i in. 2003a                   |
| Polska | 2000 | 2  | 18 | 12 | 48 | 8.0  | 49.3000 | 19.9000 | 5 |   |     |  |     |     | 2.3 |     |         | Podhale  | Draber i in. 2003a                   |
| Polska | 2001 | 7  | 7  | 10 | 10 | 27.0 | 49.5000 | 20.6000 | 5 |   |     |  |     |     | 2.8 |     |         | Szczawnica-Piwniczna Zdrój                       | Draber i in. 2003b                   |
| Polska | 2001 | 7  | 7  | 11 | 15 | 41.0 | 49.4000 | 20.6000 | 5 |   |     |  |     |     | 2.4 |     |         | Szczawnica-Piwniczna Zdrój                       | Draber i in. 2003b                   |
| Polska | 2001 | 7  | 7  | 13 | 14 | 11.0 | 49.5000 | 20.6000 | 5 |   |     |  |     |     | 2.0 |     |         | Szczawnica-Piwniczna Zdrój                       | Draber i in. 2003b                   |
| Polska | 2001 | 7  | 7  | 15 | 00 | 52.0 | 49.4500 | 20.6000 | 5 |   |     |  |     |     | 1.7 |     |         | Szczawnica-Piwniczna Zdrój                       | Draber i in. 2003b                   |
| Polska | 2001 | 7  | 11 | 7  | 36 | 14.0 | 49.4000 | 20.6000 | 5 |   |     |  |     |     | 1.9 |     |         | Szczawnica-Piwniczna Zdrój                       | Draber i in. 2003b                   |
| Polska | 2002 | 1  | 24 | 8  | 39 | 0.0  | 49.4800 | 19.9500 | 5 |   |     |  |     |     | 1.2 |     |         | Podhale  | Draber i in. 2004                    |
| Polska | 2002 | 8  | 16 | 0  | 49 | 20.2 | 49.2700 | 20.0300 | 5 |   |     |  |     |     | 2.0 |     |         | Podhale  | Draber i in. 2004                    |
| Polska | 2003 | 1  | 26 | 15 | 45 | 0.8  | 49.3000 | 19.9000 | 5 |   |     |  |     |     | 2.1 |     |         | Podhale  | Zuchniak i in. 2005                  |
| Polska | 2003 | 3  | 12 | 13 | 20 | 27.0 | 49.4000 | 19.8000 | 5 |   |     |  |     |     | 2.6 |     |         | Podhale  | Zuchniak i in. 2005, Guterch B. 2015 |
| Polska | 2003 | 4  | 27 | 16 | 15 | 28.0 | 49.4000 | 20.0500 | 5 |   |     |  |     |     | 2.3 |     |         | Podhale  | Zuchniak i in. 2005                  |
| Polska | 2004 | 2  | 21 | 21 | 41 | 47.0 | 49.5000 | 20.6000 | 5 |   |     |  |     |     | 2.2 |     |         | Szczawnica-Piwniczna Zdrój                       | Guterch B. 2007                      |
| Polska | 2004 | 11 | 30 | 17 | 18 | 38.0 | 49.4450 | 19.8890 | 5 | 3 | 4.4 |  | 4.3 | 4.5 |     | 7.0 | Podhale | Guterch B. 2009a, Guterch B. 2015                |                                      |
| Polska | 2004 | 11 | 30 | 19 | 26 | 35.0 | 49.4000 | 19.9000 | 5 |   |     |  |     |     | 2.4 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 11 | 30 | 23 | 32 | 12.2 | 49.3200 | 19.8900 | 5 |   |     |  |     |     | 2.5 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 11 | 30 | 23 | 56 | 33.6 | 49.3100 | 19.9000 | 5 |   |     |  |     |     | 2.4 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 12 | 1  | 1  | 12 | 23.0 | 49.3200 | 19.9200 | 5 |   |     |  |     |     | 2.5 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 12 | 1  | 6  | 0  | 40.1 | 49.3200 | 19.9200 | 5 |   |     |  |     |     | 2.5 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 12 | 1  | 23 | 25 | 15.6 | 49.4660 | 19.9670 | 5 |   |     |  | 2.5 | 2.8 |     | 4.0 | Podhale | Guterch B. 2007, Guterch B. 2015                 |                                      |
| Polska | 2004 | 12 | 1  | 23 | 50 | 13.0 | 49.3200 | 19.9100 | 5 |   |     |  |     |     | 2.7 | 4.0 | Podhale | Guterch B. 2007, Guterch B. 2015                 |                                      |
| Polska | 2004 | 12 | 2  | 0  | 13 | 55.2 | 49.3100 | 19.9000 | 5 |   |     |  |     |     | 2.4 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 12 | 2  | 1  | 35 | 28.1 | 49.3100 | 19.8600 | 5 |   |     |  |     |     | 2.5 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 12 | 2  | 6  | 11 | 28.2 | 49.3100 | 19.9100 | 5 |   |     |  |     |     | 2.3 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 12 | 2  | 8  | 43 | 48.2 | 49.3100 | 19.9100 | 5 |   |     |  |     |     | 2.4 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 12 | 2  | 18 | 25 | 39.2 | 49.3950 | 19.8430 | 5 | 3 | 3.6 |  | 3.5 | 3.6 |     | 5.0 | Podhale | Guterch B. 2007, Guterch B.2009, Guterch B. 2015 |                                      |
| Polska | 2004 | 12 | 2  | 20 | 15 | 0.0  | 49.4000 | 19.9000 | 5 |   |     |  |     |     | 2.1 |     |         | Podhale  | Guterch B. 2007                      |
| Polska | 2004 | 12 | 3  | 8  | 30 | 22.4 | 49.3200 | 19.9000 | 5 |   |     |  |     |     | 2.5 |     |         | Podhale  | Guterch B. 2007                      |

|        |      |    |    |    |    |      |         |         |   |   |     |  |  |     |     |     |         |   |  |
|--------|------|----|----|----|----|------|---------|---------|---|---|-----|--|--|-----|-----|-----|---------|---|--|
| Polska | 2004 | 12 | 3  | 10 | 7  | 2.9  | 49.3400 | 19.8600 | 5 |   |     |  |  |     | 2.7 |     |         | Podhale   | Guterch B. 2007, Guterch B. 2015                   |
| Polska | 2004 | 12 | 5  | 8  | 29 | 59.9 | 49.3400 | 19.8700 | 5 |   |     |  |  |     | 2.5 |     |         | Podhale   | Guterch B. 2007                                    |
| Polska | 2004 | 12 | 9  | 1  | 9  | 5.8  | 49.3780 | 19.8840 | 5 | 3 | 3.4 |  |  |     | 3.3 | 5.0 |         | Podhale   | Guterch B. 2007, Guterch B. 2009a, Guterch B. 2015 |
| Polska | 2004 | 12 | 12 | 15 | 1  | 24.4 | 49.3100 | 19.9100 | 5 |   |     |  |  |     | 2.4 |     |         | Podhale   | Guterch B. 2007                                    |
| Polska | 2004 | 12 | 13 | 0  | 5  | 29.2 | 49.3200 | 19.8900 | 5 |   |     |  |  |     | 2.9 |     |         | Podhale   | Guterch B. 2007                                    |
| Polska | 2004 | 12 | 13 | 3  | 29 | 5.1  | 49.3500 | 19.9100 | 5 |   |     |  |  |     | 2.7 |     |         | Podhale   | Guterch B. 2007                                    |
| Polska | 2004 | 12 | 13 | 12 | 27 | 23.0 | 49.4000 | 19.9000 | 5 |   |     |  |  |     | 2.0 |     |         | Podhale   | Guterch B. 2007, Guterch B. 2015                   |
| Polska | 2004 | 12 | 15 | 1  | 34 | 35.5 | 49.3100 | 19.9000 | 5 |   |     |  |  |     | 2.2 |     |         | Podhale   | Guterch B. 2007                                    |
| Polska | 2004 | 12 | 27 | 14 | 2  | 51.1 | 49.3100 | 19.9100 | 5 |   |     |  |  |     | 2.4 |     |         | Podhale   | Guterch B. 2007                                    |
| Polska | 2005 | 1  | 3  | 17 | 37 | 7.5  | 49.3100 | 19.9000 | 5 |   |     |  |  |     | 2.3 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 1  | 23 | 23 | 33 | 20.0 | 49.3950 | 19.9300 | 5 | 3 | 3.1 |  |  |     | 3.1 | 4.5 |         | Podhale   | Guterch B. 2009a, Guterch B. 2015                  |
| Polska | 2005 | 1  | 29 | 17 | 16 | 56.2 | 49.4120 | 19.9310 | 5 | 3 | 3.4 |  |  |     | 3.4 | 5.0 |         | Podhale   | Guterch B. 2009a, Guterch B. 2015                  |
| Polska | 2005 | 2  | 7  | 6  | 8  | 42.3 | 49.4470 | 19.9670 | 5 | 3 |     |  |  |     | 2.7 | 3.5 |         | Podhale   | Guterch B. 2009b, Guterch B. 2015                  |
| Polska | 2005 | 2  | 22 | 20 | 55 | 25.9 | 49.3000 | 19.8900 | 5 |   |     |  |  |     | 2.6 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 4  | 3  | 2  | 5  | 22.4 | 49.3000 | 19.9200 | 5 |   |     |  |  |     | 2.4 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 5  | 1  | 15 | 36 | 40.0 | 49.4000 | 19.9000 | 5 |   |     |  |  |     | 2.3 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 5  | 1  | 16 | 17 | 0.0  | 49.4000 | 19.9000 | 5 |   |     |  |  |     | 2.1 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 6  | 2  | 7  | 43 | 27.6 | 49.4120 | 19.8580 | 5 | 5 | 3.4 |  |  |     | 3.2 | 5.0 |         | Podhale   | Guterch B. 2009a, Guterch B. 2015                  |
| Polska | 2005 | 6  | 13 | 8  | 59 | 4.3  | 49.3100 | 19.8700 | 5 |   |     |  |  |     | 2.6 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 6  | 28 | 13 | 57 | 10.0 | 49.4000 | 19.9000 | 5 |   |     |  |  |     | 2.4 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 8  | 24 | 15 | 46 | 12.4 | 49.3950 | 19.9360 | 5 |   |     |  |  |     | 2.8 |     |         | Podhale   | Guterch B. 2009b, Guterch B. 2015                  |
| Polska | 2005 | 8  | 25 | 1  | 44 | 22.6 | 49.3300 | 19.9100 | 5 |   |     |  |  |     | 2.4 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 8  | 27 | 14 | 44 | 12.7 | 49.3600 | 19.9200 | 5 |   |     |  |  |     | 2.6 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 8  | 27 | 14 | 48 | 17.4 | 49.3100 | 19.9100 | 5 |   |     |  |  |     | 2.3 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 8  | 27 | 22 | 33 | 19.6 | 49.3100 | 19.9100 | 5 |   |     |  |  |     | 2.2 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 8  | 28 | 10 | 30 | 20.0 | 49.4000 | 19.9000 | 5 |   |     |  |  |     | 2.1 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2005 | 8  | 28 | 10 | 34 | 15.0 | 49.4000 | 19.9000 | 5 |   |     |  |  |     | 2.0 |     |         | Podhale   | Guterch B. 2009b                                   |
| Polska | 2006 | 6  | 25 | 1  | 12 | 26.1 | 49.2600 | 20.0100 | 5 |   |     |  |  |     | 3.2 |     |         | Podhale   | Guterch B. 2009c, Guterch B. 2015                  |
| Polska | 2007 | 5  | 6  | 7  | 32 | 31.5 | 52.0097 | 17.4956 | 2 | 4 |     |  |  | 2.9 |     |     | Jarocin | Trojanowski i in. 2012, Polkowski i in. 2016, Guterch B. 2015 |  |
| Polska | 2007 | 7  | 27 | 10 | 1  | 43.2 | 49.4200 | 20.8600 | 2 | 0 |     |  |  | 0.9 |     |     | Krynica | ESI SAS   |  |

|        |      |    |    |    |    |      |         |         |   |   |     |  |  |     |     |  |  |         |                                     |
|--------|------|----|----|----|----|------|---------|---------|---|---|-----|--|--|-----|-----|--|--|---------|-------------------------------------|
| Polska | 2007 | 9  | 24 | 10 | 13 | 3.2  | 49.6500 | 20.9700 | 2 | 0 |     |  |  | 1.1 |     |  |  | Grybów  | ESI SAS                             |
| Polska | 2007 | 9  | 24 | 11 | 12 | 49.9 | 49.7300 | 21.1100 | 2 | 0 |     |  |  | 1.3 |     |  |  | Grybów  | ESI SAS                             |
| Polska | 2007 | 9  | 24 | 11 | 15 | 7.0  | 49.6200 | 20.9500 | 2 | 5 |     |  |  | 0.8 |     |  |  | Grybów  | ESI SAS                             |
| Polska | 2007 | 9  | 24 | 15 | 13 | 17.9 | 49.7700 | 21.1400 | 2 | 2 |     |  |  | 1.4 |     |  |  | Grybów  | ESI SAS                             |
| Polska | 2007 | 9  | 24 | 15 | 32 | 24.1 | 49.4700 | 20.8300 | 2 | 0 |     |  |  | 0.9 |     |  |  | Krynica | ESI SAS                             |
| Polska | 2007 | 9  | 25 | 16 | 27 | 28.0 | 49.4700 | 20.7300 | 2 | 3 | 2.3 |  |  |     | 2.3 |  |  | Grybów  | Wiejacz i in. 2008, ESI SAS         |
| Polska | 2007 | 9  | 25 | 21 | 32 | 13.2 | 49.5880 | 20.9140 | 2 | 0 | 2.4 |  |  |     | 2.4 |  |  | Grybów  | Wiejacz i in. 2008, Guterch B. 2015 |
| Polska | 2007 | 9  | 25 | 21 | 36 | 2.3  | 49.6800 | 21.0500 | 2 | 0 |     |  |  | 0.7 |     |  |  | Grybów  | ESI SAS                             |
| Polska | 2008 | 2  | 19 | 16 | 10 | 28.8 | 49.4900 | 20.9200 | 2 | 5 |     |  |  | 1.1 |     |  |  | Krynica | ESI SAS                             |
| Polska | 2008 | 8  | 5  | 12 | 28 | 54.5 | 49.4048 | 20.1417 | 1 | 4 |     |  |  | 2.5 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2008 | 9  | 21 | 16 | 5  | 23.8 | 49.3562 | 20.0133 | 1 | 3 |     |  |  | 0.4 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2008 | 11 | 10 | 7  | 55 | 45.1 | 49.3848 | 20.0839 | 1 | 3 |     |  |  | 1.1 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2008 | 12 | 16 | 23 | 31 | 54.9 | 49.3731 | 20.0117 | 1 | 4 |     |  |  | 1.6 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 2  | 12 | 15 | 20 | 25.5 | 49.3210 | 19.9162 | 1 | 5 |     |  |  | 0.9 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 4  | 10 | 17 | 45 | 39.1 | 49.3792 | 19.9171 | 1 | 3 |     |  |  | 2.0 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 4  | 10 | 19 | 0  | 51.6 | 49.3906 | 19.9037 | 1 | 4 |     |  |  | 1.3 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 4  | 12 | 0  | 27 | 31.2 | 49.3910 | 19.9103 | 1 | 6 |     |  |  | 0.5 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 4  | 30 | 5  | 44 | 31.2 | 49.3882 | 19.9157 | 1 | 4 |     |  |  | 0.5 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 5  | 29 | 20 | 33 | 28.2 | 49.3441 | 19.8777 | 1 | 1 |     |  |  | 1.0 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 8  | 13 | 19 | 47 | 23.9 | 49.3842 | 19.8343 | 1 | 3 |     |  |  | 1.7 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 8  | 29 | 23 | 20 | 19.9 | 49.3843 | 19.8461 | 1 | 3 |     |  |  | 0.9 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 9  | 3  | 20 | 40 | 52.7 | 49.3923 | 19.8353 | 1 | 3 |     |  |  | 0.9 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 9  | 7  | 16 | 52 | 39.7 | 49.4015 | 20.0151 | 1 | 3 |     |  |  | 1.6 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 9  | 22 | 12 | 51 | 38.9 | 49.4400 | 20.7100 | 2 | 0 |     |  |  | 1.0 |     |  |  | Krynica | ESI SAS                             |
| Polska | 2009 | 10 | 1  | 7  | 6  | 41.7 | 49.3928 | 19.9033 | 1 | 3 |     |  |  | 0.8 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 10 | 4  | 0  | 32 | 59.4 | 49.3929 | 19.9040 | 1 | 4 |     |  |  | 0.8 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 10 | 4  | 23 | 50 | 21.9 | 49.3084 | 19.9747 | 1 | 3 |     |  |  | 0.8 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 10 | 16 | 4  | 22 | 33.4 | 49.3678 | 19.8835 | 1 | 3 |     |  |  | 0.9 |     |  |  | Podhale | Trojanowski i in. 2015              |
| Polska | 2009 | 10 | 23 | 13 | 38 | 1.3  | 49.3857 | 21.0502 | 1 | 3 |     |  |  | 2.1 |     |  |  | Krynica | Trojanowski i in. 2012              |
| Polska | 2009 | 10 | 28 | 22 | 0  | 28.2 | 49.3311 | 19.9244 | 1 | 8 |     |  |  | 0.6 |     |  |  | Podhale | Trojanowski i in. 2015              |

|        |      |    |    |    |    |      |         |         |   |   |  |  |  |     |  |  |  |         |                        |
|--------|------|----|----|----|----|------|---------|---------|---|---|--|--|--|-----|--|--|--|---------|------------------------|
| Polska | 2009 | 11 | 12 | 14 | 38 | 18.3 | 49.3203 | 19.9762 | 1 | 3 |  |  |  | 0.9 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2009 | 12 | 15 | 11 | 46 | 51.3 | 49.3315 | 19.9155 | 1 | 7 |  |  |  | 1.9 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 3  | 19 | 7  | 18 | 54.9 | 49.3790 | 19.9038 | 1 | 4 |  |  |  | 0.3 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 3  | 31 | 4  | 9  | 1.9  | 49.3842 | 19.9069 | 1 | 4 |  |  |  | 1.1 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 4  | 3  | 20 | 28 | 21.1 | 49.3125 | 19.9704 | 1 | 5 |  |  |  | 1.0 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 4  | 4  | 7  | 18 | 33.6 | 49.4058 | 19.8515 | 1 | 4 |  |  |  | 0.7 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 5  | 7  | 20 | 50 | 0.4  | 49.3673 | 19.8854 | 1 | 4 |  |  |  | 1.8 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 5  | 13 | 19 | 2  | 2.7  | 49.3964 | 19.9215 | 1 | 5 |  |  |  | 1.3 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 8  | 11 | 5  | 5  | 49.5 | 49.3119 | 19.9097 | 1 | 4 |  |  |  | 0.7 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 10 | 1  | 6  | 31 | 53.3 | 49.3893 | 19.9123 | 1 | 3 |  |  |  | 1.8 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 10 | 2  | 23 | 17 | 54.9 | 49.3914 | 19.9098 | 1 | 4 |  |  |  | 0.5 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 11 | 7  | 9  | 52 | 42.9 | 49.3870 | 19.9233 | 1 | 4 |  |  |  | 0.5 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 11 | 8  | 23 | 16 | 41.2 | 49.3759 | 19.8836 | 1 | 5 |  |  |  | 0.6 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 11 | 10 | 0  | 32 | 52.9 | 49.3918 | 19.9631 | 1 | 4 |  |  |  | 0.2 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2010 | 11 | 19 | 2  | 56 | 19.3 | 49.3982 | 19.9237 | 1 | 5 |  |  |  | 0.2 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 1  | 25 | 2  | 26 | 28.5 | 49.3805 | 19.9996 | 1 | 3 |  |  |  | 0.4 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 3  | 8  | 1  | 50 | 32.1 | 49.3309 | 19.8126 | 1 | 4 |  |  |  | 0.6 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 3  | 28 | 1  | 53 | 40.3 | 49.3316 | 19.8283 | 1 | 5 |  |  |  | 0.9 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 5  | 12 | 1  | 38 | 58.2 | 49.2905 | 20.1191 | 1 | 3 |  |  |  | 0.7 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 5  | 17 | 20 | 21 | 50.8 | 49.3062 | 19.9931 | 1 | 3 |  |  |  | 0.7 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 5  | 21 | 1  | 33 | 1.2  | 49.3970 | 19.9565 | 1 | 3 |  |  |  | 0.2 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 6  | 21 | 14 | 54 | 25.9 | 49.4184 | 19.8286 | 1 | 4 |  |  |  | 1.4 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 7  | 11 | 21 | 14 | 7.8  | 49.3976 | 19.9428 | 1 | 4 |  |  |  | 0.6 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 7  | 24 | 3  | 28 | 57.3 | 49.2697 | 19.8685 | 1 | 5 |  |  |  | 1.0 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 7  | 29 | 20 | 28 | 58.8 | 49.3913 | 19.9073 | 1 | 5 |  |  |  | 0.3 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 8  | 22 | 22 | 20 | 52.9 | 49.3739 | 20.0722 | 1 | 2 |  |  |  | 0.4 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 9  | 3  | 19 | 20 | 9.7  | 49.3704 | 19.8886 | 1 | 2 |  |  |  | 0.2 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 9  | 26 | 3  | 48 | 16.9 | 49.3738 | 20.0178 | 1 | 4 |  |  |  | 0.3 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 9  | 26 | 16 | 30 | 54.8 | 49.4005 | 19.9245 | 1 | 5 |  |  |  | 0.8 |  |  |  | Podhale | Trojanowski i in. 2015 |
| Polska | 2011 | 9  | 26 | 22 | 23 | 7.9  | 49.3923 | 19.9341 | 1 | 4 |  |  |  | 0.4 |  |  |  | Podhale | Trojanowski i in. 2015 |

|        |      |    |    |    |    |      |         |         |   |    |  |  |  |  |  |  |  |         |   |
|--------|------|----|----|----|----|------|---------|---------|---|----|--|--|--|--|--|--|--|---------|---|
| Polska | 2011 | 10 | 6  | 23 | 5  | 21.8 | 49.3849 | 19.8306 | 1 | 6  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2011 | 11 | 6  | 11 | 35 | 7.1  | 49.3665 | 19.8341 | 1 | 5  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2011 | 11 | 6  | 13 | 19 | 37.6 | 49.3677 | 19.8332 | 1 | 5  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2011 | 11 | 26 | 16 | 31 | 42.6 | 49.3855 | 19.9098 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2011 | 11 | 26 | 18 | 13 | 37.1 | 49.3846 | 19.9065 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2011 | 12 | 15 | 3  | 5  | 42.9 | 49.3204 | 19.9675 | 1 | 2  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2011 | 12 | 15 | 4  | 56 | 33.7 | 49.3176 | 19.9675 | 1 | 2  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 1  | 6  | 15 | 37 | 59.7 | 52.0091 | 17.5371 | 1 | 10 |  |  |  |  |  |  |  | Jarocin | Trojanowski i in. 2012, Lizurek i in. 2013, Guterch B. 2015 |
| Polska | 2012 | 1  | 8  | 21 | 45 | 55.5 | 49.2825 | 19.9458 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 3  | 1  | 19 | 34 | 38.3 | 49.3774 | 19.8824 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 3  | 5  | 14 | 24 | 45.6 | 49.3721 | 20.0113 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 3  | 8  | 21 | 33 | 30.3 | 49.3790 | 20.0187 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 6  | 9  | 3  | 11 | 50.2 | 49.3662 | 20.0179 | 1 | 4  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 7  | 6  | 6  | 18 | 25.3 | 49.3969 | 19.9497 | 1 | 4  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 7  | 16 | 9  | 15 | 28.6 | 49.3683 | 20.0184 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 7  | 17 | 0  | 47 | 16.8 | 49.3686 | 20.0146 | 1 | 4  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 7  | 17 | 5  | 27 | 13.0 | 49.3648 | 20.0157 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 7  | 17 | 23 | 15 | 12.7 | 49.3690 | 20.0139 | 1 | 4  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 7  | 21 | 22 | 36 | 52.9 | 49.3698 | 20.0149 | 1 | 4  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 8  | 25 | 23 | 27 | 40.4 | 49.4069 | 19.9482 | 1 | 4  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 9  | 28 | 17 | 9  | 34.2 | 49.3512 | 19.8446 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 10 | 16 | 14 | 35 | 31.5 | 49.3653 | 20.0151 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 10 | 16 | 14 | 48 | 30.0 | 49.3739 | 20.0195 | 1 | 4  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 12 | 4  | 3  | 57 | 55.2 | 49.3923 | 19.9244 | 1 | 4  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2012 | 12 | 4  | 13 | 9  | 30.9 | 49.3507 | 19.8551 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Trojanowski i in. 2015                                      |
| Polska | 2013 | 2  | 17 | 7  | 37 | 20.1 | 49.3324 | 19.9123 | 1 | 5  |  |  |  |  |  |  |  | Podhale | Sejzm. baza danych IGF PAN                                  |
| Polska | 2013 | 7  | 19 | 0  | 54 | 25.0 | 49.3587 | 19.8248 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Sejzm. baza danych IGF PAN                                  |
| Polska | 2013 | 7  | 28 | 20 | 16 | 46.2 | 49.3481 | 19.8007 | 1 | 3  |  |  |  |  |  |  |  | Podhale | Sejzm. baza danych IGF PAN                                  |



## Opis tabeli:

| KOLUMNA                    | OPIS  |
|----------------------------|---|
| PAŃSTWO                    | Nazwa państwa, w którego granicach wystąpił wstrząs sejsmiczny w ramach aktualnie ustanowionych granic kraju.   |
| ROK                        | Data i czas wystąpienia wstrząsu (o ile była dostępna). Rok określony jest zawsze.  |
| MIESIĄC                    |   |
| DZIEŃ                      |   |
| GODZINA                    |   |
| MINUTA                     |   |
| SEKUNDA                    |   |
| N                          | Współrzędne podane z dokładnością zależną od kategorii wstrząsu.  |
| E                          |   |
| DOKŁADNOŚĆ<br>POZYCJI [km] | Dla błędów lokalizacji wstrząsu określonego tylko na podstawie opisów (zjawiska makrosejsmiczne), przyjęto dokładność 30-50 km, w przypadku wstrząsów określonych na podstawie rejestracji sejsmicznych z sieci PLSN i przedstawionych w Biuletynach IGF PAN, przyjęto dokładność 5 km, w przypadku wstrząsów określonych na podstawie rejestracji sejsmicznych z sieci lokalnych przyjęto dokładność wyliczoną i wynoszącą średnio 1 km. |
| GŁĘBOKOŚĆ [km]             | Głębokość wystąpienia wstrząsu.   |
| Mm                         | Magnituda z płaszcza ziemi liczona z długich fal powierzchniowych.  |
| MS                         | Magnituda z fal powierzchniowych.   |
| mb                         | Magnituda z fal objętościowych.   |
| ML                         | Magnituda lokalna (Richtera).   |
| Mw                         | Magnituda z momentu sejsmicznego.   |
| $I_{MSK-64}$               | Intensywność odczuć na powierzchni wg skali MSK-64.   |
| $I_{EMS-98}$               | Intensywność odczuć na powierzchni wg skali EMS-98.   |
| REGION                     | Rejon geograficzny wystąpienia wstrząsu.  |
| ŹRÓDŁO                     | Źródło informacji o wystąpieniu wstrząsu sejsmicznego.  |

Referencje:

- Draber D., Guterch B., Lewandowska-Marciniak H. (2000a) Seismological Bulletin 1991-1992, Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-21(316).
- Draber D., Guterch B., Lewandowska-Marciniak H. (2000b) Seismological Bulletin 1993-1994, Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-22(331).
- Draber D., Guterch B., Lewandowska-Marciniak H., Niewiadomski J. (2002) Seismological Bulletin 1995-1997. Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-24(336).
- Draber D., Guterch B., Lewandowska-Marciniak H., Niewiadomski J. (2003a) Seismological Bulletin 2000, Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-32(362).
- Draber D., Guterch B., Lewandowska-Marciniak H., Niewiadomski J. (2003b) Seismological Bulletin 2001, local earthquakes recorded by Polish seismic stations. *Publ. Ins. Geophys. Pol. Acad. Sci.*, B-33(366).
- Draber D., Niewiadomski J., Zuchniak M. (2004) Seismological Bulletin 2002, Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-36(375).
- ESI SAS (Earth Science Institute of the Slovak Academy of Sciences) (2004) National Network of Seismic Stations of Slovakia. Deutsches GeoForschungsZentrum GFZ. Other/Seismic Network. <https://doi.org/10.14470/FX099882>
- Guterch B. (2007) Seismological Bulletin 2004 Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-40(397).
- Guterch B. (2009a) Sejsmiczność Polski w świetle danych historycznych. *Przegląd Geologiczny* 57: 513-520.
- Guterch B. (2009b) Seismological Bulletin 2005 Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-41(399).
- Guterch B. (2009c) Seismological Bulletin 2006 Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-42(410).
- Guterch B. (2015) Seismicity in Poland: Updated Seismic Catalog, W: *Studies of Historical Earthquakes in Southern Poland*, Guterch, B. i Kozák J. (eds.), *GeoPlanet: Earth and Planetary Sciences*, Chapter 3: 75-101.
- Lizurek G., Plesiewicz B., Wiejacz P., Wiszniowski J., Trojanowski J. (2013) Seismic event near Jarocin (Poland). *Acta Geophysica* 61: 26-36.
- Polkowski M., Plesiewicz B., Wiszniowski J., Wilde-Piórko M. and PASSEQ Working Group (2016) Local Seismic Events in the Area of Poland Based on Data from the PASSEQ 2006-2008 Experiment, *Acta Geophysica* 64(6): 2092-2113.
- SEJSM. BAZA DANYCH IGF PAN - wewnętrzna sejsmologiczna baza danych IGF PAN
- Trojanowski J., Plesiewicz B., Wiszniowski J., Suchcicki J., Tokarz A. (2012) *Monitoring Zagrożenia Sejsmicznego Obszaru Polski 2008-2012. Raport końcowy.*
- Trojanowski J., Plesiewicz B., Wiszniowski J. (2015) Seismic monitoring of Poland – temporary Seismic Project with mobile Seismic Network, *Acta Geophysica* 63(1): 17-44.
- Wiejacz P., Dębski W., Kotwicki A., Rudziński Ł. (2008) Microearthquakes near Grybów, Poland, Western Carpathians, ESC2008 – poster.
- Zuchniak M., Niewiadomski J., Guterch B. (2005) Seismological Bulletin 2003. Local Earthquakes Recorded by Polish Seismological Stations. Publications of the Institute of Geophysics, Polish Academy of Sciences, B-37(376).