|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Id from Fig.1 | Lab. Code | Latitude | Longitude | Sample name | Age 14C (BP) | Age cal BP | Age cal BP | geomorphic position | Bibliography |
|  |  |  |  |  |  |  | *ranges* | *midpoint ± 0,5\*width of 95.4% range* |  |  |
| 1 | 1 | Gro\_6632 | 50.88569534 | 21.86788684 | Annopol | 11980 ± 70 | 68.3% probability | 13900 ± 110 | moraine plateau | Manikowska 1985, 2002 |
|  |  |  |  |  |  |  | 14014BP (34.1%) 13919BP |  |  |  |
|  |  |  |  |  |  |  | 13879BP (34.1%) 13878BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 14050BP (91.3%) 13746BP |  |  |  |
|  |  |  |  |  |  |  | 13700BP (2.9%) 13660BP |  |  |  |
|  |  |  |  |  |  |  | 13628BP (1.2%) 13613BP |  |  |  |
| 2 | 2 | Gro\_6914 | 51.36177057 | 19.34833432 | Bełchatów | 9380 ± 50 | 68.3% probability | 10620 ± 60 | moraine plateau | Manikowska 1985 |
|  |  |  |  |  |  |  | 10682BP (60.2%) 10561BP |  |  |  |
|  |  |  |  |  |  |  | 10535BP (8.1%) 10516 BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 10740BP (93.1%) 10493BP |  |  |  |
|  |  |  |  |  |  |  | 10458BP (2.4%) 10436BP |  |  |  |
| 3 | 2 | Gro\_6913 | 51.36177057 | 19.34833432 | Bełchatów | 11030 ± 60 | 68.3% probability | 12980 ± 85 | moraine plateau | Manikowska 1985 |
|  |  |  |  |  |  |  | 13067BP (68.3%) 128896BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13094BP (94.7%) 12823BP |  |  |  |
|  |  |  |  |  |  |  | 12795BP (0.8%) 12785BP |  |  |  |
| 4 | 3 | Poz-68969 | 50.38611603 | 23.4076709 | Bełżec | 10900 ± 60 | 68.3% probability | 12800±45 | fluvial terrace | Zieliński 2016 |
|  |  |  |  |  |  |  | 12880BP (5.0%) 12869 |  |  |  |
|  |  |  |  |  |  |  | 12840BP (62.2%) 12753BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12970BP (95.4%) 12732BP |  |  |  |
| 5 | 4 | Gd-304 | 51.85789007 | 18.88528667 | Borki Lipkowskie | 10500 ± 250 | 68.3% probability | 12380±340 | moraine plateau | Krajewski 1977 |
|  |  |  |  |  |  |  | 12717BP (66.4%) 12040BP |  |  |  |
|  |  |  |  |  |  |  | 12026BP (1.9%) 12004BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12907BP (92.9%) 11600BP |  |  |  |
|  |  |  |  |  |  |  | 11581BP (1.8%) 11476BP |  |  |  |
|  |  |  |  |  |  |  | 11444BP (0.7%) 11403BP |  |  |  |
| 6 | 5 | Gd\_375 | 52.89067084 | 16.94539919 | Budzyń | 11400 ± 320 | 68.3% probability | 13250 ± 315 | outwash plain | Nowaczyk 1986 |
|  |  |  |  |  |  |  | 13600BP (68.3%) 12970BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 14020BP (2.6%) 13908BP |  |  |  |
|  |  |  |  |  |  |  | 13889BP (92.9%) 12741BP |  |  |  |
| 7 | 6 | Lod\_47 | 52.23402218 | 21.43554315 | Cięciwa | 7150 ± 350 | 68.3% probability | 8000 ± 330 | fluvial terrace | Konecka-Betley 1991 |
|  |  |  |  |  |  |  | 8330BP (68.3%) 7673BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 8849BP (0.1%) 8840BP |  |  |  |
|  |  |  |  |  |  |  | 8773BP (94.3%) 7413BP |  |  |  |
|  |  |  |  |  |  |  | 7400BP (1.0%) 7326BP |  |  |  |
| 8 | 6 | Gd\_2407 | 52.23402218 | 21.43554315 | Cięciwa | 8770 ± 110 | 68.3% probability | 9760 ± 170 | fluvial terrace | Konecka-Betley 1991 |
|  |  |  |  |  |  |  | 10110BP (4.5%) 10080BP |  |  |  |
|  |  |  |  |  |  |  | 9909BP (59.5%) 9590BP |  |  |  |
|  |  |  |  |  |  |  | 9583BP (4.3%) 9556BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 10155BP (21.2%) 9980BP |  |  |  |
|  |  |  |  |  |  |  | 9970BP (74.3%) 9545BP |  |  |  |
| 9 | 6 | Lod\_30 | 52.23402218 | 21.43554315 | Cięciwa | 11150 ± 150 | 68.3% probability | 13040 ± 140 | fluvial terrace | Konecka-Betley 1991 |
|  |  |  |  |  |  |  | 13176BP (67.3%) 12894BP |  |  |  |
|  |  |  |  |  |  |  | 12856BP (1.0%) 12850BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13305BP (95.4%) 12765BP |  |  |  |
| 10 | 6 | Gd\_2406 | 52.23402218 | 21.43554315 | Cięciwa | 12030 ± 170 | 68.3% probability | 13930 ± 190 | fluvial terrace | Konecka-Betley 1991 |
|  |  |  |  |  |  |  | 14111BP (61.4%) 13741BP |  |  |  |
|  |  |  |  |  |  |  | 13706BP (5.0%) 13656BP |  |  |  |
|  |  |  |  |  |  |  | 13631BP (1.9%) 13612BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 14805BP (2.4%) 14712BP |  |  |  |
|  |  |  |  |  |  |  | 14485BP (91.0%) 13569BP |  |  |  |
|  |  |  |  |  |  |  | 13563BP (2.0%) 13501BP |  |  |  |
| 11 | 6 | Gd\_2405 | 52.23402218 | 21.43554315 | Cięciwa | 12150 ± 270 | 68.3% probability | 14150 ± 400 | fluvial terrace | Konecka-Betley 1991 |
|  |  |  |  |  |  |  | 14816BP (7.4%) 14702BP |  |  |  |
|  |  |  |  |  |  |  | 14546BP (60.9%) 13762BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 15111BP (94.0%) 13571BP |  |  |  |
|  |  |  |  |  |  |  | 13560BP (1.4%) 13503BP |  |  |  |
| 12 | 6 | - | 52.23402218 | 21.43554315 | Cięciwa II | 8320 ±120 | 68.3% probability | 9350±110 | fluvial terrace | after Konecka-Betley 1991 |
|  |  |  |  |  |  |  | 9466BP (52.0%) 9253BP |  |  |  |
|  |  |  |  |  |  |  | 9238BP (7.5%) 9200BP |  |  |  |
|  |  |  |  |  |  |  | 9179BP (8.7%) 9139 |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 9528BP (95.4%) 9026BP |  |  |  |
| 13 | 6 | - | 52.23402218 | 21.43554315 | Cięciwa II | 10120 ±220 | 68.3% probability | 11680±390 | fluvial terrace | after Konecka-Betley 1991 |
|  |  |  |  |  |  |  | 12093BP (0.3%) 12089BP |  |  |  |
|  |  |  |  |  |  |  | 12053BP (68.0%) 11270BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12610BP (1.9%) 12535BP |  |  |  |
|  |  |  |  |  |  |  | 12497BP (93.5%) 11191BP |  |  |  |
| 14 | 7 | Gd\_1014 | 52.16158768 | 17.05079833 | Czmoń | 11320 ± 240 | 68.3% probability | 13260 ± 210 | fluvial terrace | Nowaczyk 1986 |
|  |  |  |  |  |  |  | 13465BP (63.4%) 13051BP |  |  |  |
|  |  |  |  |  |  |  | 13045BP (4.9%) 12996BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13737BP (0.7%) 13711BP |  |  |  |
|  |  |  |  |  |  |  | 13652BP (0.5%) 13634BP |  |  |  |
|  |  |  |  |  |  |  | 13610BP (94.2%) 12756BP |  |  |  |
| 15 | 8 | Gro-6915 | 51.63609947 | 19.26018479 | Dobroń | 10960 ± 60 | 68.3% probability | 12840 ± 80 | moraine plateau | Manikowska 1985 |
|  |  |  |  |  |  |  | 12922BP (69.3%) 12764BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13065BP (7.4%) 13020BP |  |  |  |
|  |  |  |  |  |  |  | 13009BP (88.0%) 12756BP |  |  |  |
| 16 | 8 | Gro\_6631 | 51.63609947 | 19.26018479 | Dobroń | 11770 ± 80 | 68.3% probability | 13630 ± 120 | moraine plateau | Manikowska 1985 |
|  |  |  |  |  |  |  | 13750BP (25.5%) 13680BP |  |  |  |
|  |  |  |  |  |  |  | 13664BP (14.5%) 13625BP |  |  |  |
|  |  |  |  |  |  |  | 13616BP (14.1%) 13580BP |  |  |  |
|  |  |  |  |  |  |  | 13550BP (14.3%) 13514BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13791BP (95.4%) 13486BP |  |  |  |
| 17 | 9 | Lu-1679 | 53.79035264 | 17.54141685 | Gacno Wielkie | 11380 ± 100 | 68.3% probability | 13250±90 | outwash plain | Hjelmroos-Ericsson 1981 (after Kozarski, Nowaczyk 1991) |
|  |  |  |  |  |  |  | 13343BP (68.3%) 13165BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13450BP (95.4%) 13106BP |  |  |  |
| 18 | 9 | Lu-1678 | 53.79035264 | 17.54141685 | Gacno Wielkie | 11840 ± 110 | 68.3% probability | 13700±100 | outwash plain | Hjelmroos-Ericsson 1981 (after Kozarski, Nowaczyk 1991) |
|  |  |  |  |  |  |  | 13798BP (62.9%) 13587BP |  |  |  |
|  |  |  |  |  |  |  | 13545BP (5.4%) 13520BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 14019BP (9.7%) 13913BP |  |  |  |
|  |  |  |  |  |  |  | 13885BP (85.8%) 13488BP |  |  |  |
| 19 | 10 | Poz-52907 | 51.51047636 | 21.92391419 | Gołąb | 11580 ± 60 | 68.3% probability | 13450±50 | fluvial terrace | Zieliński 2016; Zieliński et al. 2019 |
|  |  |  |  |  |  |  | 13497BP (55.1%) 13400BP |  |  |  |
|  |  |  |  |  |  |  | 13386BP (13.2%) 13357 |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13580BP (7.4%) 13550BP |  |  |  |
|  |  |  |  |  |  |  | 13515BP (88.0%) 13317BP |  |  |  |
| 20 | 11 | Lod-481 | 50.40303479 | 19.60313166 | Hucisko | 8250 ± 180 | 68.3% probability | 9330±110 | dry valley | Dulias 1997 |
|  |  |  |  |  |  |  | 9438BP (68.3%) 9016BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 9542BP (94.7%) 8698BP |  |  |  |
|  |  |  |  |  |  |  | 8672BP (0.7%) 8650BP |  |  |  |
| 21 | 12 | Poz-73028 | 50.62194866 | 22.78051069 | Ignatówka | 10810 ± 60 | 68.3% probability | 12750±40 | moraine plateau | Zieliński 2016 |
|  |  |  |  |  |  |  | 12819BP (10.5%) 12800BP |  |  |  |
|  |  |  |  |  |  |  | 12771BP (57.8%) 12724BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12880BP (1.2%) 12868BP |  |  |  |
|  |  |  |  |  |  |  | 12841 (94.2%) 12701BP |  |  |  |
| 22 | 13 | Gd\_12088 | 51.75282011 | 14.98882192 | Jasień | 9650 ± 180 | 68.3% probability | 10980 ± 240 | fluvial terrace | Kowalkowski et al. 1999 |
|  |  |  |  |  |  |  | 11224BP (68.3%) 10739BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 11612BP (1.7%) 11526BP |  |  |  |
|  |  |  |  |  |  |  | 11505BP (1.8%) 11421BP |  |  |  |
|  |  |  |  |  |  |  | 11411BP (91.7%) 10496BP |  |  |  |
|  |  |  |  |  |  |  | 10455BP (0.3%) 10440BP |  |  |  |
| 23 | 13 | Gd\_10797 | 51.75282011 | 14.98882192 | Jasień | 9390 ± 260 | 68.3% probability | 10580 ± 290 | fluvial terrace | Kowalkowski et al. 1999 |
|  |  |  |  |  |  |  | 11072BP (11.4%) 10945BP |  |  |  |
|  |  |  |  |  |  |  | 10875BP (56.9%) 10288BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 11396BP (0.3%) 11371 |  |  |  |
|  |  |  |  |  |  |  | 11353BP (95.1%) 9902 |  |  |  |
| 24 | 13 | Gd\_10801 | 51.75282011 | 14.98882192 | Jasień | 9540 ± 270 | 68.3% probability | 10860 ± 360 | fluvial terrace | Kowalkowski et al. 1999 |
|  |  |  |  |  |  |  | 11225BP (68.3%) 10500BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 11743BP (95.4%) 10201 |  |  |  |
| 25 | 13 | Gd\_11399 | 51.75282011 | 14.98882192 | Jasień | 9870 ± 120 | 68.3% probability | 11300 ± 120 | fluvial terrace | Kowalkowski et al. 1999 |
|  |  |  |  |  |  |  | 11607BP (11.4%) 10945BP |  |  |  |
|  |  |  |  |  |  |  | 105015BP (10.1%) 11428BP |  |  |  |
|  |  |  |  |  |  |  | 11407BP (50.6%) 11182BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 11814BP (93.2) 11072BP |  |  |  |
|  |  |  |  |  |  |  | 10945BP (2.3%) 10875BP |  |  |  |
| 26 | 13 | Gd\_12085 | 51.75282011 | 14.98882192 | Jasień | 10150 ± 80 | 68.3% probability | 11810 ± 130 | fluvial terrace | Kowalkowski et al. 1999 |
|  |  |  |  |  |  |  | 11939BP (56.2%) 11685BP |  |  |  |
|  |  |  |  |  |  |  | 11674BP (10.2%) 11615BP |  |  |  |
|  |  |  |  |  |  |  | 11522BP (1.9%) 11509BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12096BP (0.3%) 12085BP |  |  |  |
|  |  |  |  |  |  |  | 12058BP (94.1%) 11392BP |  |  |  |
|  |  |  |  |  |  |  | 11375BP (1.0%) 11343BP |  |  |  |
| 27 | 13 | Gd\_11397 | 51.75282011 | 14.98882192 | Jasień | 10300 ± 190 | 68.3% probability | 12150 ± 330 | fluvial terrace | Kowalkowski et al. 1999 |
|  |  |  |  |  |  |  | 12482BP (66.1%) 11809BP |  |  |  |
|  |  |  |  |  |  |  | 11785BP (2.2%) 11757BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12673BP (95.4%) 11401BP |  |  |  |
| 28 | 13 | Gd\_5851 | 51.75282011 | 14.98882192 | Jasień | 11680 ± 130 | 68.3% probability | 13515 ± 100 | fluvial terrace | Kowalkowski et al. 1999 |
|  |  |  |  |  |  |  | 13746BP (8.8%) 13699BP |  |  |  |
|  |  |  |  |  |  |  | 13661BP (6.3%) 13627BP |  |  |  |
|  |  |  |  |  |  |  | 13615BP (53.1%) 13413BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13802BP (95.0%) 13297BP |  |  |  |
|  |  |  |  |  |  |  | 13268BP (0.5%) 13250BP |  |  |  |
| 29 | 13 | Gd-5640 | 51.75282011 | 14.98882192 | Jasień | 9030 ± 100 | 68.3% probability | 10200±100 | fluvial terrace | Nowaczyk and Okuniewska-Nowaczyk 1996 |
|  |  |  |  |  |  |  | 10291BP (46.0%) 10116BP |  |  |  |
|  |  |  |  |  |  |  | 10067BP (10.5%) 10006BP |  |  |  |
|  |  |  |  |  |  |  | 9995BP (7.7%) 9955BP |  |  |  |
|  |  |  |  |  |  |  | 9945BP (4.1%) 9916BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 10492BP (1.8%) 10459BP |  |  |  |
|  |  |  |  |  |  |  | 10436BP (91.8%) 9890BP |  |  |  |
|  |  |  |  |  |  |  | 9842BP (1.9%) 9792BP |  |  |  |
| 30 | 13 | Gd-4525 | 51.75282011 | 14.98882192 | Jasień | 10290 ± 200 | 68.3% probability | 12100±380 | fluvial terrace | Nowaczyk and Okuniewska-Nowaczyk 1996 |
|  |  |  |  |  |  |  | 12482BP (68.3%) 11747BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12676BP (95%) 11396BP |  |  |  |
|  |  |  |  |  |  |  | 11370BP (0.5%) 11354BP |  |  |  |
| 31 | 14 | Lod\_43 | 52.35979401 | 20.18901985 | Kamion | 12235 ± 260 | 68.3% probability | 14300 ± 300 | fluvial terrace | Manikowska 1991 |
|  |  |  |  |  |  |  | 14831BP (10.6%) 14685BP |  |  |  |
|  |  |  |  |  |  |  | 14599BP (48.4%) 13986BP |  |  |  |
|  |  |  |  |  |  |  | 13947BP (9.3%) 13810BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 15175BP (95.4%) 13600BP |  |  |  |
| 32 | 14 | Lod\_85 | 52.35979401 | 20.18901985 | Kamion | 14590 ± 270 | 68.3% probability | 17820 ± 340 | fluvial terrace | Manikowska, 1991 |
|  |  |  |  |  |  |  | 18157BP (68.3%) 17477BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 18600BP (2.0%) 18499BP |  |  |  |
|  |  |  |  |  |  |  | 18305BP (93.5%) 17075BP |  |  |  |
| 33 | 14 | Gd\_4344 | 52.35979401 | 20.18901985 | Kamion | 14300 ± 300 | 68.3% probability | 17460 ± 410 | fluvial terrace | Manikowska 1991 |
|  |  |  |  |  |  |  | 17873BP (68.3%) 17048BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 18221BP (95.4%) 16641BP |  |  |  |
| 34 | 15 | Lod\_84 | 52.34990661 | 20.18561813 | Kamion-Młodzieszynek | 10830 ± 250 | 68.3% probability | 12850 ± 240 | fluvial terrace | Manikowska 1985 |
|  |  |  |  |  |  |  | 13091BP (65.1%) 12612BP |  |  |  |
|  |  |  |  |  |  |  | 12533BP (3.2%) 12499BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13292BP (0.3%) 13275BP |  |  |  |
|  |  |  |  |  |  |  | 13245BP (94.9%) 12041BP |  |  |  |
|  |  |  |  |  |  |  | 12018BP (0.3%) 12004BP |  |  |  |
| 35 | 16 | Ki-8657 | 51.23390491 | 21.9770403 | Karczmiska | 7490 ± 100 | 68.3% probability | 8290±90 | slope of loess plateau | Zieliński 2016 |
|  |  |  |  |  |  |  | 8380BP (68.3%) 8194BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 8451BP (95.4%) 16641BP |  |  |  |
| 36 | 16 | Ki-8658 | 51.23390491 | 21.9770403 | Karczmiska | 9520 ± 150 | 68.3% probability | 10850±250 | slope of loess plateau | Zieliński 2016 |
|  |  |  |  |  |  |  | 11093BP (27.3%) 10912BP |  |  |  |
|  |  |  |  |  |  |  | 10901BP (37.5%) 10653BP |  |  |  |
|  |  |  |  |  |  |  | 10621BP (3.4%) 10595BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 11231BP (93.6%) 10484BP |  |  |  |
|  |  |  |  |  |  |  | 10466BP (1.9%) 10416 |  |  |  |
| 37 | 16 | Ki-8651 | 51.23390491 | 21.9770403 | Karczmiska III | 9160 ± 120 | 68.3% probability | 10330±110 | slope of loess plateau | Fedorowicz and Zieliński 2009 |
|  |  |  |  |  |  |  | 10498BP (10.3%) 10453BP |  |  |  |
|  |  |  |  |  |  |  | 10443BP (58.0%) 10226BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 10688BP (93.2%) 10121BP |  |  |  |
|  |  |  |  |  |  |  | 10063BP (0.8%) 10038BP |  |  |  |
|  |  |  |  |  |  |  | 10026BP (0.4%) 10011BP |  |  |  |
|  |  |  |  |  |  |  | 9990BP (0.1%) 9961BP |  |  |  |
| 38 | 16 | Ki-8655 | 51.23390491 | 21.9770403 | Karczmiska III | 10600 ± 130 | 68.3% probability | 12600±135 | slope of loess plateau | Fedorowicz and Zieliński 2009 |
|  |  |  |  |  |  |  | 12741BP (66.5%) 12469BP |  |  |  |
|  |  |  |  |  |  |  | 12342BP (0.9%) 12334BP |  |  |  |
|  |  |  |  |  |  |  | 12288BP (0.9%) 12280BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12764BP (95.4%) 12044BP |  |  |  |
| 39 | 17 | Gd\_10883 | 53.04715 | 18.633639 | Katarzynka | 11100 ± 230 | 68.3% probability | 12990 ± 180 | outwash plain | Jankowski 2012 |
|  |  |  |  |  |  |  | 13171BP (63.5%) 12815BP |  |  |  |
|  |  |  |  |  |  |  | 12804BP (4.8%) 12769BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13460BP (95.4%) 12690BP |  |  |  |
| 40 | 17 | Gd\_14024 | 53.04715 | 18.633639 | Katarzynka | 11100 ± 270 | 68.3% probability | 12980 ± 220 | fluvial terrace | Jankowski 2012 |
|  |  |  |  |  |  |  | 13235BP (3.5%) 13204BP |  |  |  |
|  |  |  |  |  |  |  | 13188BP (64.8%) 12757BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13587BP (0.8%) 13546BP |  |  |  |
|  |  |  |  |  |  |  | 13520BP (93.9%) 12608BP |  |  |  |
|  |  |  |  |  |  |  | 12537BP (0.8%) 12495BP |  |  |  |
| 41 | 18 | Gd-2040 | 54.68199236 | 17.33046143 | Kluki | 9880 ± 140 | 68.3% probability | 11350±160 | seashore plain | Tobolski 1981 |
|  |  |  |  |  |  |  | 11685BP (1.2%) 11674BP |  |  |  |
|  |  |  |  |  |  |  | 11616BP (12.0%) 11522BP |  |  |  |
|  |  |  |  |  |  |  | 11509BP (55.0%) 11181BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 11870BP (0.2%) 11862BP |  |  |  |
|  |  |  |  |  |  |  | 11834BP (90.0%) 11067BP |  |  |  |
|  |  |  |  |  |  |  | 11029BP (0.5%) 11006BP |  |  |  |
|  |  |  |  |  |  |  | 10963BP (3.4%) 10864BP |  |  |  |
|  |  |  |  |  |  |  | 10855BP (1.4%) 10797BP |  |  |  |
| 42 | 18 | Hv-9104 | 54.68199236 | 17.33046143 | Kluki | 9855 ± 315 | 68.3% probability | 11410±420 | seashore plain | Tobolski 1981 |
|  |  |  |  |  |  |  | 11830BP (56.3%) 10990BP |  |  |  |
|  |  |  |  |  |  |  | 10980BP (12.0%) 10766BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12578BP (0.2%) 12560BP |  |  |  |
|  |  |  |  |  |  |  | 12482BP (95.1%) 10499BP |  |  |  |
|  |  |  |  |  |  |  | 10451BP (0.1%) 10444BP |  |  |  |
| 43 | 18 | Gd-548 | 54.68199236 | 17.33046143 | Kluki | 9865 ± 105 | 68.3% probability | 11290±110 | fluvial terrace | Tobolski 1981 |
|  |  |  |  |  |  |  | 11602BP (3.2%) 11578BP |  |  |  |
|  |  |  |  |  |  |  | 11495BP (7.4%) 11440BP |  |  |  |
|  |  |  |  |  |  |  | 11404BP (57.6%) 11182BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 11747BP (94.6%) 11081BP |  |  |  |
|  |  |  |  |  |  |  | 10921BP (0.9%) 10892BP |  |  |  |
| 44 | 19 | Gd-12706 | 51.22555766 | 21.90408554 | Kosiorów | 10920 ± 85 | 68.3% probability | 12830±80 | fluvial terrace | Zieliński et al. 2019 |
|  |  |  |  |  |  |  | 12911BP (68.3%) 12750BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13065BP (6.6%) 13020BP |  |  |  |
|  |  |  |  |  |  |  | 13009BP (88.9%) 12738BP |  |  |  |
| 45 | 19 | Gd-11747 | 51.22555766 | 21.90408554 | Kosiorów | 10900 ± 70 | 68.3% probability | 12800±50 | fluvial terrace | Zieliński et al. 2019 |
|  |  |  |  |  |  |  | 12888BP (11.1%) 12862BP |  |  |  |
|  |  |  |  |  |  |  | 12845BP (57.1%) 12750BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13054BP (1.7%) 13030BP |  |  |  |
|  |  |  |  |  |  |  | 12998BP (93.7%) 12731BP |  |  |  |
| 46 | 20 | Gd-294 | 52.0326851 | 18.91004982 | Kraski | 10530 ± 585 | 68.3% probability | 12300±700 | fluvial terrace | Krajewski 1977 |
|  |  |  |  |  |  |  | 13063BP (1.5%) 13022BP |  |  |  |
|  |  |  |  |  |  |  | 13007BP (64.1%) 11605BP |  |  |  |
|  |  |  |  |  |  |  | 11553BP (1.9%) 11500BP |  |  |  |
|  |  |  |  |  |  |  | 11430BP (0.8%) 11406BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13735BP (0.1%) 13714BP |  |  |  |
|  |  |  |  |  |  |  | 13609BP (95.3%) 10658BP |  |  |  |
| 47 | 21 | Gd-1540 | 52.49334346 | 19.79298284 | Liszno | 8750 ± 100 | 68.3% probability | 9750±150 | alluvial fan | Kamińska et al. 1986 |
|  |  |  |  |  |  |  | 9895BP (63.0%) 9591BP |  |  |  |
|  |  |  |  |  |  |  | 9583BP (5.3%) 9556BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 10150BP (9.9%) 10057BP |  |  |  |
|  |  |  |  |  |  |  | 10046BP (5.8%) 9984BP |  |  |  |
|  |  |  |  |  |  |  | 9966BP (79.8%) 9541BP |  |  |  |
| 48 | 21 | Gd-2027 | 52.49334346 | 19.79298284 | Liszno | 10400 ± 180 | 68.3% probability | 12240±260 | alluvial fan | Kamińska et al. 1986 |
|  |  |  |  |  |  |  | 12607BP (7.4%) 12538BP |  |  |  |
|  |  |  |  |  |  |  | 12511BP (60.5%) 11968BP |  |  |  |
|  |  |  |  |  |  |  | 11956BP (0.4%) 11952BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12733BP (94.3%) 11688BP |  |  |  |
|  |  |  |  |  |  |  | 11672BP (1.2%) 11620BP |  |  |  |
| 49 | 22 | Gd-9954 | 51.14897614 | 21.90098292 | Łaziska | 11200 ± 400 | 68.3% probability | 13120±380 | alluvial fan | Zieliński 2016 |
|  |  |  |  |  |  |  | 13495BP (68.3%) 12740BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 14065BP (92.2%) 12420BP |  |  |  |
|  |  |  |  |  |  |  | 12408BP (3.2%) 12098BP |  |  |  |
| 50 | 22 | Gd-9959 | 51.14897614 | 21.90098292 | Łaziska | 11990 ± 420 | 68.3% probability | 14500±500 | alluvial fan | Zieliński 2016 |
|  |  |  |  |  |  |  | 14816BP (5.2%) 14702BP |  |  |  |
|  |  |  |  |  |  |  | 14546BP (63.1%) 13451BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 15340BP (95.4%) 13102BP |  |  |  |
| 51 | 23 | Poz-73030 | 50.53262883 | 23.10602226 | Malewszczyzna | 12350 ± 60 | 68.3% probability | 14330±150 | dry valley | Zieliński 2016 |
|  |  |  |  |  |  |  | 14798BP (14.3%) 14720BP |  |  |  |
|  |  |  |  |  |  |  | 14477BP (54.0%) 14181BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 14841BP (22.2%) 14673BP |  |  |  |
|  |  |  |  |  |  |  | 14619BP (73.3%) 14102BP |  |  |  |
| 52 | 24 | Gd-4391 | 52.28497062 | 20.74203691 | Mariew | 12160 ± 260 | 68.3% probability | 14160±360 | dry valley | Konecka-Beltley 1991 |
|  |  |  |  |  |  |  | 14815BP (7.4%) 14703BP |  |  |  |
|  |  |  |  |  |  |  | 14540BP (60.9%) 13774BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 15097BP (94.5%) 13579BP |  |  |  |
|  |  |  |  |  |  |  | 13552BP (0.9%) 13512BP |  |  |  |
| 53 | 25 | Gd-1541 | 50.43433687 | 19.51781061 | Ogrodzieniec | 8670 ± 100 | 68.3% probability | 9660±120 | dry valley | Szczypek 1986 |
|  |  |  |  |  |  |  | 9884BP (3.4%) 9865BP |  |  |  |
|  |  |  |  |  |  |  | 9774BP (64.8%) 9536BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 10120BP (3.2%) 10064BP |  |  |  |
|  |  |  |  |  |  |  | 10036BP (0.3%) 10028BP |  |  |  |
|  |  |  |  |  |  |  | 10010BP (0.8%) 9991BP |  |  |  |
|  |  |  |  |  |  |  | 9959BP (91.1%) 9483BP |  |  |  |
| 54 | 26 | Gd-2029 | 50.75938883 | 19.27530989 | Olsztyn | 10540 ± 220 | 68.3% probability | 12400±300 | dry valley | Szczypek 1986 |
|  |  |  |  |  |  |  | 12730BP (37.3%) 12421BP |  |  |  |
|  |  |  |  |  |  |  | 12407BP (31.0%) 12098BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12926BP (95.1%) 11693BP |  |  |  |
|  |  |  |  |  |  |  | 11668BP (0.3%) 11645BP |  |  |  |
| 55 | 26 | Gd-2030 | 50.75938883 | 19.27530989 | Olsztyn | 11230 ± 220 | 68.3% probability | 13110±210 | fluvial terrace | Szczypek 1986 |
|  |  |  |  |  |  |  | 13321BP (68.3%) 12901BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13567BP (0.1%) 13564BP |  |  |  |
|  |  |  |  |  |  |  | 13502BP (95.3%) 12750BP |  |  |  |
| 56 | 27 | Poz-52905 | 52.9008077 | 18.72106561 | Otłoczyn | 10530 ± 50 | 68.3% probability | 12520±40 | alluvial fan | Zieliński et al. 2015 |
|  |  |  |  |  |  |  | 12662BP (5.8%) 12646BP |  |  |  |
|  |  |  |  |  |  |  | 12623BP (22.6%) 12580BP |  |  |  |
|  |  |  |  |  |  |  | 12555BP (39.9%) 12482BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12695BP (92.3%) 12465BP |  |  |  |
|  |  |  |  |  |  |  | 12346BP (1.2%) 12330BP |  |  |  |
|  |  |  |  |  |  |  | 12293BP (1.2%) 12276BP |  |  |  |
|  |  |  |  |  |  |  | 12219BP (0.8%) 12206BP |  |  |  |
| 57 | 28 | Lod-40 | 52.1177601 | 18.91964082 | Rośle Nowe | 11920 ± 240 | 68.3% probability | 13790±290 | fluvial terrace | Krajewski and Balwierz 1985 |
|  |  |  |  |  |  |  | 14079BP (68.3%) 13501BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 14827BP (3.0%) 14690BP |  |  |  |
|  |  |  |  |  |  |  | 14577BP (92.4%) 13305BP |  |  |  |
| 58 | 29 | Gro-6196 | 51.12062923 | 20.56419772 | Stąporków koło Końskich | 10365 ± 70 | 68.3% probability | 12220±250 | fluvial terrace | Manikowska 1985 |
|  |  |  |  |  |  |  | 12463BP (22.1%) 12347BP |  |  |  |
|  |  |  |  |  |  |  | 12330BP (6.5%) 12295BP |  |  |  |
|  |  |  |  |  |  |  | 12274BP (10.2%) 12220BP |  |  |  |
|  |  |  |  |  |  |  | 12200BP (29.4%) 12045BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 12586BP (2.4%) 12549BP |  |  |  |
|  |  |  |  |  |  |  | 12485BP (93.1%) 11940BP |  |  |  |
| 59 | 30 | Gd-5032 | 51.58084113 | 21.78737413 | Stężyca | 12 940 ± 110 | 68.3% probability | 15470±160 | fluvial terrace | Żarski 1990 |
|  |  |  |  |  |  |  | 15631BP (68.3%) 15306BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 15793BP (95.4%) 15160BP |  |  |  |
| 60 | 31 | Gd-631 | 53.99180272 | 14.63440107 | Świętoujść | 11590 ± 270 | 68.3% probability | 13490±260 | moraine plateau | Borówka et.al.1982 |
|  |  |  |  |  |  |  | 13753BP (65.7%) 13232BP |  |  |  |
|  |  |  |  |  |  |  | 13209BP (2.5%) 13184BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 14078BP (95.4%) 12923BP |  |  |  |
| 61 | 32 | Gd-1327 | 52.16634456 | 21.28467323 | Wiązowna | 12770 ± 130 | 68.3% probability | 15250+/-200 | fluvial terrace | Konecka-Betley 1991, Konecka-Betley, and Janowska 2005 |
|  |  |  |  |  |  |  | 15450BP (68.3%) 15050BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 15678BP (94.5%) 14834BP |  |  |  |
|  |  |  |  |  |  |  | 14680BP (1.0%) 114626BP |  |  |  |
| 62 | 32 | Gd-1375 | 52.16634456 | 21.28467323 | Wiązowna | 12860 +/- 190 | 68.3% probability | 15380+/-280 | fluvial terrace | Konecka-Betley 1991, Konecka-Betley, and Janowska 2005 |
|  |  |  |  |  |  |  | 15662BP (68.3%) 15101BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 15985BP (93.1%) 114816BP |  |  |  |
|  |  |  |  |  |  |  | 114703BP (2.4%) 114557BP |  |  |  |
| 63 | 32 | Gd-1376 | 52.16634456 | 21.28467323 | Wiązowna | 13220 +/- 120 | 68.3% probability | 15880+/-180 | fluvial terrace | Konecka-Betley 1991, Konecka-Betley, and Janowska 2005 |
|  |  |  |  |  |  |  | 16050BP (68.3%) 15690BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 16257BP (95.4%) 15540BP |  |  |  |
| 64 | 32 | Gd-1377 | 52.16634456 | 21.28467323 | Wiązowna | 13340 +/- 110 | 68.3% probability | 16050+/-170 | fluvial terrace | Konecka-Betley 1991, Konecka-Betley, and Janowska 2005 |
|  |  |  |  |  |  |  | 16217BP (68.3%) 15580BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 16363BP (95.4%) 15717BP |  |  |  |
| 65 | 32 | Lod. 32 | 52.16634456 | 21.28467323 | Wiązowna | 10430 ± 450 | 68.3% probability | 12100+/-600 | fluvial terrace | Konecka-Betley 1991 |
|  |  |  |  |  |  |  | 12755BP (68.3%) 111607BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13240BP (95.4%) 11070BP |  |  |  |
| 66 | 33 | - | 52.20145378 | 16.88061863 | Żabinko | 11140 ± 130 | 68.3% probability | 13040±130 | fluvial terrace | Nowaczyk 2000 |
|  |  |  |  |  |  |  | 13165BP (68.3%) 12906BP |  |  |  |
|  |  |  |  |  |  |  | 95.4% probability |  |  |  |
|  |  |  |  |  |  |  | 13295BP (1.6%) 13272BP |  |  |  |
|  |  |  |  |  |  |  | 13247BP (93.8%) 12768BP |  |  |  |

Table 1. All important data for investigated radiocarbon samples taken from literature: Id from Fig.1, laboratory code, geographical coordinates, sample name, uncalibrated and calibrated age of the sample, Age cal BP, geomorphic position and bibliography.