ДОПОЛНИТЕЛЬНЫЕ МАТЕРИАЛЫ

**Таблица 1.** Результаты U–Pb изотопного (LA-ICP-MS) датирования зерен детритового циркона из ченкской толщи (проба N18-004), Горный Крым

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| № | Номер анализа | Измеренные отношения  с коррекцией на общий Pb | | | | | Возраст (млн лет) с коррекцией на общий Pb | | | | | | D1, % | D2, % |
| п/п | в пробе  18-004 | 207Pb/235U | 1σ | 206Pb/ 238U | 1σ | RHO | 207Pb/ 206Pb | 1σ | 207Pb/ 235U | 1σ | 206Pb/ 238U | 1σ |
| *1* | *a100* | *0.29116* | *0.00446* | *0.03314* | *0.00037* | 0.73 | *733* | *18* | *259* | *4* | *210* | *2* | *249.0* | *23.3* |
| *2* | *a101* | *4.56026* | *0.03398* | *0.27101* | *0.00277* | 0.99 | *1986* | *12* | *1742* | *6* | *1546* | *14* | *28.5* | *12.7* |
| *3* | *a102* | *0.36156* | *0.00469* | *0.03459* | *0.00038* | 0.85 | *1091* | *14* | *313* | *3* | *219* | *2* | *398.2* | *42.9* |
| 4 | a103-RIM | 0.28702 | 0.00463 | 0.04053 | 0.00046 | 0.70 | 257 | 21 | 256 | 4 | **256** | **3** | 0.4 | 0.0 |
| *5* | *a104* | *0.74408* | *0.01069* | *0.03767* | *0.00043* | *0.79* | *2267* | *14* | *565* | *6* | *238* | *3* | *852.5* | *137.4* |
| 6 | a105-RIM | 0.57664 | 0.00843 | 0.07435 | 0.00083 | 0.76 | 462 | 18 | 462 | 5 | **462** | **5** | 0.0 | 0.0 |
| 7 | a106-RIM | 0.47858 | 0.00981 | 0.06317 | 0.00075 | 0.58 | 410 | 26 | 397 | 7 | **395** | **5** | 3.8 | 0.5 |
| *8* | *a107* | *0.33822* | *0.00334* | *0.03689* | *0.00047* | *0.99* | *822* | *18* | *296* | *3* | *234* | *3* | *251.3* | *26.5* |
| *9* | *a108* | *0.29121* | *0.00520* | *0.03659* | *0.00042* | *0.64* | *520* | *23* | *260* | *4* | *232* | *3* | *124.1* | *12.1* |
| *10* | *a109* | *4.08082* | *0.06071* | *0.26445* | *0.00304* | *0.77* | *1831* | *15* | *1650* | *12* | *1513* | *15* | *21.0* | *9.1* |
| *11* | *a10* | *2.54980* | *0.03200* | *0.04871* | *0.00054* | *0.88* | *3831* | *10* | *1286* | *9* | *307* | *3* | *1147.9* | *318.9* |
| *12* | *a110* | *0.24175* | *0.00410* | *0.03046* | *0.00035* | *0.68* | *513* | *21* | *220* | *3* | *193* | *2* | *165.8* | *14.0* |
| *13* | *a111* | *0.32348* | *0.00455* | *0.03104* | *0.00035* | *0.80* | *1084* | *16* | *285* | *3* | *197* | *2* | *450.3* | *44.7* |
| *14* | *a112* | *0.26350* | *0.00366* | *0.03715* | *0.00041* | *0.79* | *261* | *18* | *237* | *3* | *235* | *3* | *11.1* | *0.9* |
| *15* | *a113* | *0.41555* | *0.00588* | *0.05471* | *0.00061* | *0.79* | *416* | *18* | *353* | *4* | *343* | *4* | *21.3* | *2.9* |
| *16* | *a114-RIM* | *0.39397* | *0.00640* | *0.05233* | *0.00060* | *0.71* | *396* | *21* | *337* | *5* | *329* | *4* | *20.4* | *2.4* |
| 17 | a115-RIM | 0.56205 | 0.00912 | 0.07247 | 0.00083 | 0.71 | 463 | 21 | 453 | 6 | **451** | **5** | 2.7 | 0.4 |
| 18 | a116-RIM | 0.54826 | 0.00905 | 0.07190 | 0.00082 | 0.69 | 425 | 21 | 444 | 6 | **448** | **5** | -5.1 | -0.9 |
| 19 | a117 | 0.33975 | 0.00512 | 0.04677 | 0.00053 | 0.75 | 315 | 19 | 297 | 4 | **295** | **3** | 6.8 | 0.7 |
| *20* | *a118-* | *0.30786* | *0.00376* | *0.03718* | *0.00043* | *0.95* | *606* | *20* | *273* | *3* | *235* | *3* | *157.9* | *16.2* |
| *21* | *a119* | *0.56701* | *0.00716* | *0.04975* | *0.00055* | *0.88* | *1261* | *14* | *456* | *5* | *313* | *3* | *302.9* | *45.7* |
| *22* | *a11* | *6.14297* | *0.04135* | *0.15381* | *0.00131* | *0.99* | *3416* | *9* | *1996* | *6* | *922* | *7* | *270.5* | *116.5* |
| 23 | a120-RIM | 1.06884 | 0.01476 | 0.11986 | 0.00134 | 0.81 | 764 | 16 | 738 | 7 | **730** | **8** | 4.7 | 1.1 |
| 24 | a12-RIM | 1.55809 | 0.02405 | 0.15704 | 0.00180 | 0.74 | 985 | 18 | 954 | 10 | **940** | **10** | 4.8 | 1.5 |
| *25* | *a13-RIM* | *0.27572* | *0.00237* | *0.03612* | *0.00035* | *0.99* | *427* | *16* | *247* | *2* | *229* | *2* | *86.5* | *7.9* |
| 26 | a14-RIM | 0.25277 | 0.00465 | 0.03612 | 0.00042 | 0.63 | 230 | 24 | 229 | 4 | **229** | **3** | 0.4 | 0.0 |
| *27* | *a15-RIM* | *0.21012* | *0.00331* | *0.02993* | *0.00034* | *0.72* | *238* | *21* | *194* | *3* | *190* | *2* | *25.3* | *2.1* |
| *28* | *a16* | *6.67995* | *0.04812* | *0.33131* | *0.00328* | *0.99* | *2302* | *12* | *2070* | *6* | *1845* | *16* | *24.8* | *12.2* |
| 29 | a17 | 0.34410 | 0.00560 | 0.04766 | 0.00054 | 0.70 | 302 | 21 | 300 | 4 | **300** | **3** | 0.7 | 0.0 |
| *30* | *a18* | *0.37899* | *0.00297* | *0.04567* | *0.00049* | *0.99* | *610* | *16* | *326* | *2* | *288* | *3* | *111.8* | *13.2* |
| *31* | *a19* | *0.32489* | *0.00704* | *0.03753* | *0.00046* | *0.57* | *701* | *27* | *286* | *5* | *238* | *3* | *194.5* | *20.2* |
| *32* | *a1* | *1.11452* | *0.00808* | *0.11678* | *0.00106* | *0.99* | *905* | *13* | *760* | *4* | *712* | *6* | *27.1* | *6.7* |
| 33 | a20-RIM | 0.54937 | 0.00798 | 0.07030 | 0.00079 | 0.77 | 479 | 18 | 445 | 5 | **438** | **5** | 9.4 | 1.6 |
| *34* | *a21* | *0.45117* | *0.00753* | *0.05622* | *0.00064* | *0.68* | *538* | *21* | *378* | *5* | *353* | *4* | *52.4* | *7.1* |
| *35* | *a22* | *0.64314* | *0.00784* | *0.03579* | *0.00039* | *0.89* | *2102* | *12* | *504* | *5* | *227* | *2* | *826.0* | *122.0* |
| *36* | *a23-RIM* | *2.32078* | *0.02951* | *0.15917* | *0.00176* | *0.87* | *1727* | *13* | *1219* | *9* | *952* | *10* | *81.4* | *28.0* |
| *37* | *a24* | *1.40090* | *0.01731* | *0.12856* | *0.00141* | *0.89* | *1173* | *14* | *889* | *7* | *780* | *8* | *50.4* | *14.0* |
| *38* | *a25* | *1.42948* | *0.01805* | *0.13936* | *0.00153* | *0.87* | *1052* | *14* | *901* | *8* | *841* | *9* | *25.1* | *7.1* |
| *39* | *a26* | *1.15186* | *0.00886* | *0.11996* | *0.00135* | *0.99* | *918* | *16* | *778* | *4* | *730* | *8* | *25.8* | *6.6* |
| 40 | a27-RIM | 0.27645 | 0.00431 | 0.03888 | 0.00043 | 0.71 | 267 | 20 | 248 | 3 | **246** | **3** | 8.5 | 0.8 |
| *41* | *a28* | *0.57906* | *0.00460* | *0.06998* | *0.00085* | *0.99* | *604* | *17* | *464* | *3* | *436* | *5* | *38.5* | *6.4* |
| *42* | *a29* | *0.34803* | *0.00467* | *0.03689* | *0.00041* | *0.83* | *881* | *16* | *303* | *4* | *234* | *3* | *276.5* | *29.5* |
| *43* | *a2* | *0.29688* | *0.00390* | *0.03381* | *0.00037* | *0.83* | *731* | *16* | *264* | *3* | *214* | *2* | *241.6* | *23.4* |
| *44* | *a30* | *1.34068* | *0.01765* | *0.12305* | *0.00135* | *0.83* | *1173* | *15* | *864* | *8* | *748* | *8* | *56.8* | *15.5* |
| *45* | *a31* | *0.81427* | *0.01139* | *0.05488* | *0.00062* | *0.81* | *1760* | *14* | *605* | *6* | *344* | *4* | *411.6* | *75.9* |
| 46 | a32-RIM | 5.40382 | 0.07163 | 0.32748 | 0.00368 | 0.85 | **1952** | **13** | 1885 | 11 | 1826 | 18 | 6.9 | 3.2 |
| *47* | *a33* | *1.47340* | *0.01904* | *0.05234* | *0.00059* | *0.87* | *2860* | *11* | *920* | *8* | *329* | *4* | *769.3* | *179.6* |
| *48* | *a34* | *0.37198* | *0.00308* | *0.04680* | *0.00054* | *0.99* | *516* | *17* | *321* | *2* | *295* | *3* | *74.9* | *8.8* |
| *49* | *a35-RIM* | *0.35292* | *0.00738* | *0.03809* | *0.00046* | *0.58* | *844* | *25* | *307* | *6* | *241* | *3* | *250.2* | *27.4* |
| *50* | *a36* | *0.25235* | *0.00393* | *0.03128* | *0.00036* | *0.74* | *549* | *19* | *228* | *3* | *199* | *2* | *175.9* | *14.6* |
| 51 | a37-RIM | 6.86767 | 0.09209 | 0.38368 | 0.00433 | 0.84 | **2096** | **13** | 2094 | 12 | 2093 | 20 | 0.1 | 0.0 |
| *52* | *a38* | *1.44759* | *0.02349* | *0.13805* | *0.00161* | *0.72* | *1097* | *18* | *909* | *10* | *834* | *9* | *31.5* | *9.0* |
| *53* | *a39* | *0.26893* | *0.00222* | *0.03456* | *0.00047* | *0.99* | *470* | *20* | *242* | *2* | *219* | *3* | *114.6* | *10.5* |
| 54 | a3-RIM | 0.39474 | 0.00634 | 0.05384 | 0.00061 | 0.71 | 336 | 21 | 338 | 5 | **338** | **4** | -0.6 | 0.0 |
| 55 | a40-RIM | 0.41581 | 0.01087 | 0.05631 | 0.00072 | 0.49 | 353 | 34 | 353 | 8 | **353** | **4** | 0.0 | 0.0 |
| 56 | a41-RIM | 0.29407 | 0.00496 | 0.04144 | 0.00048 | 0.69 | 262 | 21 | 262 | 4 | **262** | **3** | 0.0 | 0.0 |
| 57 | a42-RIM | 0.33639 | 0.00560 | 0.04671 | 0.00054 | 0.69 | 295 | 21 | 294 | 4 | **294** | **3** | 0.3 | 0.0 |
| *58* | *a43-RIM* | *0.29565* | *0.00410* | *0.04018* | *0.00045* | *0.81* | *345* | *18* | *263* | *3* | *254* | *3* | *35.8* | *3.5* |
| *59* | *a44-RIM* | *0.27244* | *0.00377* | *0.03709* | *0.00042* | *0.82* | *340* | *18* | *245* | *3* | *235* | *3* | *44.7* | *4.3* |
| 60 | a45-CORE | 1.58092 | 0.02536 | 0.16076 | 0.00188 | 0.73 | 967 | 18 | 963 | 10 | **961** | **10** | 0.6 | 0.2 |
| *61* | *a46* | *0.31176* | *0.00300* | *0.03833* | *0.00041* | *0.99* | *567* | *17* | *276* | *2* | *242* | *3* | *134.3* | *14.0* |
| 62 | a47-RIM | 7.50149 | 0.09504 | 0.39857 | 0.00449 | 0.89 | **2183** | **12** | 2173 | 11 | 2162 | 21 | 1.0 | 0.5 |
| *63* | *a48* | *0.57072* | *0.00492* | *0.05023* | *0.00054* | *0.99* | *1255* | *15* | *458* | *3* | *316* | *3* | *297.2* | *44.9* |
| *64* | *a49* | *0.29340* | *0.00263* | *0.03528* | *0.00041* | *0.99* | *615* | *18* | *261* | *2* | *224* | *3* | *174.6* | *16.5* |
| 65 | a4-RIM | 1.60651 | 0.02818 | 0.16277 | 0.00191 | 0.67 | 974 | 21 | 973 | 11 | **972** | **11** | 0.2 | 0.1 |
| *66* | *a50-RIM* | *0.26529* | *0.00464* | *0.03316* | *0.00039* | *0.67* | *531* | *22* | *239* | *4* | *210* | *2* | *152.9* | *13.8* |
| *67* | *a53* | *0.32103* | *0.00639* | *0.03757* | *0.00045* | *0.60* | *673* | *25* | *283* | *5* | *238* | *3* | *182.8* | *18.9* |
| *68* | *a54* | *0.35814* | *0.00513* | *0.04830* | *0.00055* | *0.79* | *362* | *17* | *311* | *4* | *304* | *3* | *19.1* | *2.3* |
| *69* | *a55* | *0.79078* | *0.01179* | *0.08648* | *0.00099* | *0.77* | *817* | *18* | *592* | *7* | *535* | *6* | *52.7* | *10.7* |
| *70* | *a56* | *0.45736* | *0.00408* | *0.04318* | *0.00045* | *0.99* | *1116* | *15* | *382* | *3* | *273* | *3* | *308.8* | *39.9* |
| *71* | *a57* | *1.67078* | *0.01266* | *0.14211* | *0.00139* | *0.99* | *1322* | *13* | *997* | *5* | *857* | *8* | *54.3* | *16.3* |
| *72* | *a58* | *0.35841* | *0.00304* | *0.04535* | *0.00048* | *0.99* | *504* | *17* | *311* | *2* | *286* | *3* | *76.2* | *8.7* |
| *73* | *a59* | *0.51379* | *0.00713* | *0.03860* | *0.00044* | *0.82* | *1558* | *15* | *421* | *5* | *244* | *3* | *538.5* | *72.5* |
| *74* | *a5* | *0.37066* | *0.00351* | *0.04715* | *0.00054* | *0.99* | *492* | *18* | *320* | *3* | *297* | *3* | *65.7* | *7.7* |
| *75* | *a60* | *2.03067* | *0.01509* | *0.13847* | *0.00173* | *0.99* | *1738* | *15* | *1126* | *5* | *836* | *10* | *107.9* | *34.7* |
| *76* | *a61* | *0.32708* | *0.00554* | *0.04506* | *0.00052* | *0.68* | *313* | *22* | *287* | *4* | *284* | *3* | *10.2* | *1.1* |
| *77* | *a62* | *0.40664* | *0.00604* | *0.04111* | *0.00047* | *0.77* | *979* | *17* | *346* | *4* | *260* | *3* | *276.5* | *33.1* |
| *78* | *a63* | *0.50399* | *0.00675* | *0.05609* | *0.00062* | *0.83* | *780* | *16* | *414* | *5* | *352* | *4* | *121.6* | *17.6* |
| *79* | *a64* | *0.61107* | *0.00761* | *0.02976* | *0.00033* | *0.89* | *2333* | *12* | *484* | *5* | *189* | *2* | *1134.4* | *156.1* |
| *80* | *a65* | *0.30537* | *0.00259* | *0.03709* | *0.00040* | *0.99* | *593* | *16* | *271* | *2* | *235* | *2* | *152.3* | *15.3* |
| 81 | a66-RIM | 0.51086 | 0.00840 | 0.06696 | 0.00076 | 0.69 | 426 | 21 | 419 | 6 | **418** | **5** | 1.9 | 0.2 |
| *82* | *a67* | *11.16816* | *0.14257* | *0.52162* | *0.00580* | *0.87* | *2405* | *12* | *2537* | *12* | *2706* | *25* | *-11.1* | *-6.2* |
| *83* | *a68* | *0.36600* | *0.00543* | *0.04415* | *0.00050* | *0.76* | *608* | *18* | *317* | *4* | *279* | *3* | *117.9* | *13.6* |
| *84* | *a69* | *0.32776* | *0.00374* | *0.03928* | *0.00049* | *0.99* | *622* | *19* | *288* | *3* | *248* | *3* | *150.8* | *16.1* |
| 85 | a6-RIM | 0.39632 | 0.00597 | 0.05390 | 0.00060 | 0.74 | 343 | 19 | 339 | 4 | **338** | **4** | 1.5 | 0.3 |
| *86* | *a70* | *0.39125* | *0.00557* | *0.04033* | *0.00045* | *0.78* | *939* | *16* | *335* | *4* | *255* | *3* | *268.2* | *31.4* |
| *87* | *a71* | *0.39688* | *0.00310* | *0.04871* | *0.00043* | *0.99* | *571* | *14* | *339* | *2* | *307* | *3* | *86.0* | *10.4* |
| *88* | *a72-1* | *0.32195* | *0.00527* | *0.04441* | *0.00050* | *0.69* | *311* | *21* | *283* | *4* | *280* | *3* | *11.1* | *1.1* |
| *89* | *a72-2* | *0.34590* | *0.00299* | *0.04351* | *0.00042* | *0.99* | *517* | *16* | *302* | *2* | *275* | *3* | *88.0* | *9.8* |
| *90* | *a73* | *0.32157* | *0.00537* | *0.04408* | *0.00050* | *0.68* | *325* | *21* | *283* | *4* | *278* | *3* | *16.9* | *1.8* |
| *91* | *a74-RIM* | *0.28105* | *0.00558* | *0.03833* | *0.00045* | *0.59* | *337* | *26* | *251* | *4* | *242* | *3* | *39.3* | *3.7* |
| 92 | a75-RIM | 0.24594 | 0.00413 | 0.03496 | 0.00040 | 0.68 | 242 | 22 | 223 | 3 | **222** | **2** | 9.0 | 0.5 |
| *93* | *a76* | *0.30193* | *0.00266* | *0.03670* | *0.00040* | *0.99* | *592* | *17* | *268* | *2* | *232* | *2* | *155.2* | *15.5* |
| *94* | *a77* | *0.25141* | *0.00514* | *0.03172* | *0.00038* | *0.59* | *510* | *26* | *228* | *4* | *201* | *2* | *153.7* | *13.4* |
| *95* | *a78* | *1.61901* | *0.02212* | *0.14118* | *0.00158* | *0.82* | *1273* | *15* | *978* | *9* | *851* | *9* | *49.6* | *14.9* |
| *96* | *a79* | *0.81543* | *0.00726* | *0.08417* | *0.00103* | *0.99* | *936* | *17* | *605* | *4* | *521* | *6* | *79.7* | *16.1* |
| *97* | *a7* | *5.01272* | *0.06099* | *0.26566* | *0.00291* | *0.90* | *2188* | *12* | *1821* | *10* | *1519* | *15* | *44.0* | *19.9* |
| *98* | *a80* | *1.53610* | *0.02011* | *0.12982* | *0.00144* | *0.85* | *1334* | *14* | *945* | *8* | *787* | *8* | *69.5* | *20.1* |
| *99* | *a81* | *0.28572* | *0.00448* | *0.03624* | *0.00041* | *0.72* | *499* | *20* | *255* | *4* | *229* | *3* | *117.9* | *11.4* |
| *100* | *a82-RIM* | *1.17641* | *0.00816* | *0.11530* | *0.00109* | *0.99* | *1042* | *13* | *790* | *4* | *703* | *6* | *48.2* | *12.4* |
| *101* | *a83* | *3.66600* | *0.04493* | *0.23372* | *0.00258* | *0.90* | *1861* | *12* | *1564* | *10* | *1354* | *13* | *37.4* | *15.5* |
| *102* | *a84-RIM* | *0.35880* | *0.00633* | *0.04861* | *0.00056* | *0.65* | *352* | *23* | *311* | *5* | *306* | *3* | *15.0* | *1.6* |
| *103* | *a85* | *0.33679* | *0.00350* | *0.04036* | *0.00044* | *1.05* | *623* | *18* | *295* | *3* | *255* | *3* | *144.3* | *15.7* |
| 104 | a86 | 0.48472 | 0.00683 | 0.06420 | 0.00071 | 0.78 | 403 | 17 | 401 | 5 | **401** | **4** | 0.5 | 0.0 |
| *105* | *a87* | *0.26303* | *0.00470* | *0.03133* | *0.00036* | *0.64* | *636* | *22* | *237* | *4* | *199* | *2* | *219.6* | *19.1* |
| *106* | *a88-CORE* | *0.40204* | *0.00732* | *0.05102* | *0.00059* | *0.64* | *498* | *23* | *343* | *5* | *321* | *4* | *55.1* | *6.9* |
| *107* | *a89-RIM* | *0.57008* | *0.00470* | *0.06836* | *0.00079* | *1.40* | *621* | *17* | *458* | *3* | *426* | *5* | *45.8* | *7.5* |
| *108* | *a8* | *0.26790* | *0.00444* | *0.03570* | *0.00041* | *0.69* | *388* | *21* | *241* | *4* | *226* | *3* | *71.7* | *6.6* |
| *109* | *a90* | *6.46522* | *0.04716* | *0.07964* | *0.00101* | *1.74* | *4480* | *12* | *2041* | *6* | *494* | *6* | *806.9* | *313.2* |
| *110* | *a91-RIM* | *1.61738* | *0.02312* | *0.15290* | *0.00171* | *0.78* | *1114* | *16* | *977* | *9* | *917* | *10* | *21.5* | *6.5* |
| *111* | *a92* | *0.31225* | *0.00272* | *0.03830* | *0.00049* | *1.47* | *572* | *19* | *276* | *2* | *242* | *3* | *136.4* | *14.0* |
| *112* | *a93* | *0.32234* | *0.00569* | *0.04193* | *0.00048* | *0.65* | *443* | *22* | *284* | *4* | *265* | *3* | *67.2* | *7.2* |
| 113 | a94-RIM | 0.27847 | 0.00484 | 0.03916 | 0.00045 | 0.66 | 266 | 22 | 249 | 4 | **248** | **3** | 7.3 | 0.4 |
| *114* | *a95* | *0.33065* | *0.00458* | *0.02022* | *0.00023* | *0.82* | *1935* | *14* | *290* | *3* | *129* | *1* | *1400.0* | *124.8* |
| *115* | *a96-RIM* | *16.23576* | *0.13164* | *0.50767* | *0.00721* | *1.75* | *3066* | *15* | *2891* | *8* | *2647* | *31* | *15.8* | *9.2* |
| *116* | *a97* | *0.26366* | *0.00450* | *0.03433* | *0.00039* | *0.67* | *440* | *22* | *238* | *4* | *218* | *2* | *101.8* | *9.2* |
| *117* | *a98* | *0.56174* | *0.00506* | *0.06265* | *0.00091* | *1.61* | *775* | *20* | *453* | *3* | *392* | *6* | *97.7* | *15.6* |
| *118* | *a99-RIM* | *0.49860* | *0.00606* | *0.06032* | *0.00098* | *1.34* | *602* | *24* | *411* | *4* | *378* | *6* | *59.3* | *8.7* |
| *119* | *a9* | *0.26364* | *0.00370* | *0.03266* | *0.00036* | *0.79* | *550* | *17* | *238* | *3* | *207* | *2* | *165.7* | *15.0* |

**Таблица 2.** Результаты U–Pb изотопного (LA-ICP-MS) датирования зерен детритового циркона из ченкской толщи (проба К20-114), Горный Крым

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| №  п/п | Номер анализа  в пробе  К20-114 | Измеренные отношения  (с коррекцией на общий Pb) | | | | | Возраст (млн лет) (с коррекцией на общий Pb) | | | | | | D1, % | D2, % |
| 207Pb/235U | 1σ | 206Pb/238U | 1σ | RHO | 207Pb/ 206Pb | 1σ | 207Pb/ 235U | 1σ | 206Pb/ 238U | 1σ |
| 1 | a10-(ABC-7) | 0.58246 | 0.00655 | 0.07489 | 0.00069 | 0.82 | 469 | 16 | 466 | 4 | **466** | **4** | 0.6 | 0.0 |
| *2* | *a100-(ABC-7)* | *1.07666* | *0.01423* | *0.1174* | *0.0011* | *0.71* | *823* | *17* | *742* | *7* | *716* | *6* | *14.9* | *3.6* |
| 3 | a101-(ABC-7) | 0.29305 | 0.00408 | 0.04149 | 0.00039 | 0.68 | 251 | 20 | 261 | 3 | **262** | **2** | -4.2 | -0.4 |
| 4 | a102-(ABC-7) | 0.29274 | 0.0038 | 0.04122 | 0.00038 | 0.71 | 264 | 18 | 261 | 3 | **260** | **2** | 1.5 | 0.4 |
| *5* | *a103-(ABC-7)* | *0.39171* | *0.00415* | *0.04001* | *0.00036* | *0.85* | *957* | *14* | *336* | *3* | *253* | *2* | *278.3* | *32.8* |
| 6 | a104-RIM(ABC-7) | 0.85804 | 0.01 | 0.10192 | 0.00094 | 0.79 | 641 | 16 | 629 | 5 | **626** | **5** | 2.4 | 0.5 |
| 7 | a105(ABC-7) | 0.24106 | 0.00328 | 0.03464 | 0.00033 | 0.70 | 216 | 19 | 219 | 3 | **220** | **2** | -1.8 | -0.5 |
| 8 | a106(ABC-7) | 0.93441 | 0.01076 | 0.10945 | 0.00101 | 0.80 | 671 | 15 | 670 | 6 | **670** | **6** | 0.1 | 0.0 |
| *9* | *a107(ABC-7)* | *0.67463* | *0.00478* | *0.06334* | *0.00064* | *0.99* | *1128* | *14* | *524* | *3* | *396* | *4* | *184.8* | *32.3* |
| 10 | a108-RIM(ABC-7) | 0.23047 | 0.00307 | 0.03322 | 0.00031 | 0.70 | 210 | 19 | 211 | 3 | **211** | **2** | -0.5 | 0.0 |
| *11* | *a109-CORE(ABC-7)* | *0.95368* | *0.00669* | *0.10432* | *0.0011* | *0.99* | *816* | *15* | *680* | *3* | *640* | *6* | *27.5* | *6.3* |
| 12 | a10-CORE(ABC-6) | 1.15235 | 0.01415 | 0.127 | 0.00117 | 0.75 | 800 | 16 | 778 | 7 | **771** | **7** | 3.8 | 0.9 |
| *13* | *a11(ABC-7)* | *0.49853* | *0.00534* | *0.06411* | *0.00058* | *0.84* | *469* | *15* | *411* | *4* | *401* | *4* | *17.0* | *2.5* |
| *14* | *a110(ABC-7)* | *0.8893* | *0.01905* | *0.098* | *0.00107* | *0.51* | *800* | *27* | *646* | *10* | *603* | *6* | *32.7* | *7.1* |
| 15 | a11-CORE-(ABC-6) | 0.42568 | 0.00555 | 0.0575 | 0.00053 | 0.71 | 358 | 18 | 360 | 4 | **360** | **3** | -0.6 | 0.0 |
| 16 | a11-RIM-1(ABC-6) | 0.38171 | 0.00567 | 0.05221 | 0.00049 | 0.63 | 331 | 21 | 328 | 4 | **328** | **3** | 0.9 | 0.0 |
| 17 | a11-RIM-2(ABC-6) | 0.3313 | 0.00439 | 0.046 | 0.00042 | 0.69 | 296 | 19 | 291 | 3 | **290** | **3** | 2.1 | 0.3 |
| 18 | a12(ABC-7) | 1.26161 | 0.01568 | 0.13532 | 0.00127 | 0.76 | 857 | 16 | 829 | 7 | **818** | **7** | 4.8 | 1.3 |
| *19* | *a12(ABC-6)* | *0.30415* | *0.0035* | *0.04053* | *0.00036* | *0.77* | *389* | *16* | *270* | *3* | *256* | *2* | *52.0* | *5.5* |
| 20 | a13(ABC-6) | 0.23502 | 0.00298 | 0.0338 | 0.00031 | 0.72 | 215 | 19 | 214 | 2 | **214** | **2** | 0.5 | 0.0 |
| 21 | a13-RIM(ABC-7) | 0.73758 | 0.00886 | 0.08957 | 0.00083 | 0.77 | 594 | 16 | 561 | 5 | **553** | **5** | 7.4 | 1.4 |
| 22 | a14(ABC-6) | 0.50998 | 0.00569 | 0.06705 | 0.0006 | 0.80 | 420 | 16 | 418 | 4 | **418** | **4** | 0.5 | 0.0 |
| 23 | a14-CORE(ABC-7) | 0.35384 | 0.0042 | 0.04891 | 0.00045 | 0.78 | 306 | 17 | 308 | 3 | **308** | **3** | -0.6 | 0.0 |
| 24 | a15(ABC-6) | 0.37468 | 0.004 | 0.05142 | 0.00045 | 0.82 | 323 | 16 | 323 | 3 | **323** | **3** | 0.0 | 0.0 |
| 25 | a15-RIM(ABC-7) | 1.51959 | 0.01683 | 0.15422 | 0.00141 | 0.83 | 971 | 15 | 938 | 7 | **925** | **8** | 5.0 | 1.4 |
| *26* | *a16(ABC-7)* | *0.24259* | *0.003* | *0.03259* | *0.0003* | *0.74* | *371* | *18* | *221* | *2* | *207* | *2* | *79.2* | *6.8* |
| *27* | *a16-(ABC-6)* | *0.26785* | *0.00314* | *0.03396* | *0.0003* | *0.75* | *500* | *16* | *241* | *3* | *215* | *2* | *132.6* | *12.1* |
| 28 | a17(ABC-7) | 0.30446 | 0.00417 | 0.04274 | 0.0004 | 0.68 | 270 | 19 | 270 | 3 | **270** | **2** | 0.0 | 0.0 |
| 29 | a17(ABC-6) | 0.28679 | 0.00338 | 0.04057 | 0.00036 | 0.75 | 253 | 17 | 256 | 3 | **256** | **2** | -1.2 | 0.0 |
| 30 | a18(ABC-7) | 0.4872 | 0.00552 | 0.06445 | 0.00059 | 0.81 | 405 | 16 | 403 | 4 | **403** | **4** | 0.5 | 0.0 |
| 31 | a18(ABC-6) | 0.35841 | 0.00435 | 0.0492 | 0.00044 | 0.74 | 322 | 17 | 311 | 3 | **310** | **3** | 3.9 | 0.3 |
| 32 | a19(ABC-7) | 0.23792 | 0.00335 | 0.03417 | 0.00032 | 0.67 | 219 | 20 | 217 | 3 | **217** | **2** | 0.9 | 0.0 |
| 33 | a19(ABC-6) | 0.24303 | 0.00316 | 0.03467 | 0.00031 | 0.69 | 234 | 19 | 221 | 3 | **220** | **2** | 6.4 | 0.5 |
| 34 | a1-CORE(ABC-7) | 0.3512 | 0.00638 | 0.04819 | 0.00048 | 0.55 | 323 | 25 | 306 | 5 | **303** | **3** | 6.6 | 1.0 |
| 35 | a1-RIM(ABC-6) | 12.35204 | 0.11866 | 0.50426 | 0.00453 | 0.94 | **2631** | **10** | 2632 | 9 | 2632 | 19 | 0.0 | 0.0 |
| 36 | a2(ABC-7) | 0.57584 | 0.00695 | 0.07421 | 0.00069 | 0.77 | 463 | 17 | 462 | 4 | **461** | **4** | 0.4 | 0.2 |
| *37* | *a2(ABC-6)* | *0.24501* | *0.00271* | *0.03345* | *0.0003* | *0.81* | *334* | *16* | *223* | *2* | *212* | *2* | *57.5* | *5.2* |
| *38* | *a20(ABC-7)* | *0.27943* | *0.00353* | *0.03769* | *0.00035* | *0.74* | *361* | *18* | *250* | *3* | *238* | *2* | *51.7* | *5.0* |
| 39 | a20-CORE(ABC-6) | 1.18556 | 0.01457 | 0.12959 | 0.00117 | 0.73 | 818 | 17 | 794 | 7 | **786** | **7** | 4.1 | 1.0 |
| 40 | a21(ABC-6) | 9.84089 | 0.09629 | 0.4559 | 0.0041 | 0.92 | **2419** | **11** | 2420 | 9 | 2421 | 18 | -0.1 | 0.0 |
| 41 | a21-CORE(ABC-7) | 1.11723 | 0.01296 | 0.12231 | 0.00113 | 0.80 | 814 | 16 | 762 | 6 | **744** | **6** | 9.4 | 2.4 |
| 42 | a22(ABC-7) | 0.37822 | 0.00415 | 0.05165 | 0.00047 | 0.83 | 333 | 16 | 326 | 3 | **325** | **3** | 2.5 | 0.3 |
| 43 | a22(ABC-6) | 0.31264 | 0.00371 | 0.04347 | 0.0004 | 0.78 | 293 | 17 | 276 | 3 | **274** | **2** | 6.9 | 0.7 |
| 44 | a23(ABC-7) | 0.25859 | 0.00321 | 0.03692 | 0.00034 | 0.74 | 232 | 18 | 234 | 3 | **234** | **2** | -0.9 | 0.0 |
| 45 | a23-RIM(ABC-6) | 0.46606 | 0.00736 | 0.06154 | 0.00059 | 0.61 | 410 | 22 | 388 | 5 | **385** | **4** | 6.5 | 0.8 |
| *46* | *a24(ABC-7)* | *6.54011* | *0.04* | *0.30981* | *0.00312* | *0.99* | *2381* | *12* | *2051* | *5* | *1740* | *15* | *36.8* | *17.9* |
| *47* | *a24(ABC-6)* | *0.31505* | *0.00348* | *0.03852* | *0.00035* | *0.82* | *579* | *16* | *278* | *3* | *244* | *2* | *137.3* | *13.9* |
| 48 | a25-CORE(ABC-7) | 1.8453 | 0.02109 | 0.17919 | 0.00165 | 0.81 | **1060** | **15** | 1062 | 8 | 1063 | 9 | -0.3 | -0.1 |
| 49 | a25-RIM(ABC-6) | 0.32733 | 0.00402 | 0.04563 | 0.00042 | 0.75 | 287 | 17 | 288 | 3 | **288** | **3** | -0.3 | 0.0 |
| *50* | *a26(ABC-7)* | *0.38295* | *0.00423* | *0.04526* | *0.00041* | *0.82* | *652* | *15* | *329* | *3* | *285* | *3* | *128.8* | *15.4* |
| 51 | a26(ABC-6) | 0.22729 | 0.00281 | 0.0327 | 0.0003 | 0.74 | 215 | 18 | 208 | 2 | **207** | **2** | 3.9 | 0.5 |
| *52* | *a27(ABC-7)* | *0.31565* | *0.00278* | *0.03864* | *0.00041* | *0.99* | *576* | *17* | *279* | *2* | *244* | *3* | *136.1* | *14.3* |
| *53* | *a27(ABC-6)* | *0.27914* | *0.00376* | *0.03763* | *0.00035* | *0.69* | *363* | *19* | *250* | *3* | *238* | *2* | *52.5* | *5.0* |
| 54 | a28(ABC-6) | 1.5952 | 0.01665 | 0.16201 | 0.00145 | 0.86 | 970 | 14 | 968 | 7 | **968** | **8** | 0.2 | 0.0 |
| 55 | a28-CORE(ABC-7) | 1.50301 | 0.0169 | 0.15479 | 0.00143 | 0.82 | 941 | 15 | 932 | 7 | **928** | **8** | 1.4 | 0.4 |
| *56* | *a29(ABC-6)* | *0.22844* | *0.00282* | *0.03213* | *0.00029* | *0.73* | *267* | *18* | *209* | *2* | *204* | *2* | *30.9* | *2.5* |
| 57 | a29-CORE(ABC-7) | 0.51912 | 0.00883 | 0.06804 | 0.00067 | 0.58 | 426 | 23 | 425 | 6 | **424** | **4** | 0.5 | 0.2 |
| *58* | *a30(ABC-7)* | *0.24073* | *0.00307* | *0.03524* | *0.00033* | *0.73* | *174* | *18* | *219* | *3* | *223* | *2* | *-22.0* | *-1.8* |
| *59* | *a30(ABC-6)* | *0.23562* | *0.00291* | *0.03117* | *0.00028* | *0.73* | *405* | *17* | *215* | *2* | *198* | *2* | *104.5* | *8.6* |
| 60 | a31-RIM(ABC-7) | 0.26926 | 0.00325 | 0.03821 | 0.00035 | 0.76 | 245 | 17 | 242 | 3 | **242** | **2** | 1.2 | 0.0 |
| 61 | a31-RIM(ABC-6) | 1.67735 | 0.0167 | 0.16729 | 0.00147 | 0.88 | 1006 | 13 | 1000 | 6 | **997** | **8** | 0.9 | 0.3 |
| 62 | a32(ABC-7) | 0.28569 | 0.0035 | 0.04028 | 0.00037 | 0.75 | 261 | 17 | 255 | 3 | **255** | **2** | 2.4 | 0.0 |
| 63 | a32-CORE(ABC-6) | 0.26838 | 0.00684 | 0.03814 | 0.00041 | 0.42 | 243 | 35 | 241 | 5 | **241** | **3** | 0.8 | 0.0 |
| 64 | a33(ABC-7) | 0.23127 | 0.00248 | 0.03333 | 0.0003 | 0.84 | 210 | 16 | 211 | 2 | **211** | **2** | -0.5 | 0.0 |
| 65 | a33-CORE(ABC-6) | 0.26925 | 0.00366 | 0.03819 | 0.00035 | 0.67 | 247 | 19 | 242 | 3 | **242** | **2** | 2.1 | 0.0 |
| *66* | *a34(ABC-7)* | *0.2801* | *0.00335* | *0.04177* | *0.00039* | *0.78* | *130* | *18* | *251* | *3* | *264* | *2* | *-50.8* | *-4.9* |
| *67* | *a34(ABC-6)* | *0.27233* | *0.00308* | *0.03493* | *0.00031* | *0.78* | *474* | *16* | *245* | *2* | *221* | *2* | *114.5* | *10.9* |
| *68* | *a35(ABC-7)* | *0.26563* | *0.00336* | *0.03878* | *0.00036* | *0.73* | *180* | *18* | *239* | *3* | *245* | *2* | *-26.5* | *-2.4* |
| 69 | a35-CORE(ABC-6) | 0.29096 | 0.00496 | 0.04096 | 0.00039 | 0.56 | 264 | 24 | 259 | 4 | **259** | **2** | 1.9 | 0.0 |
| 70 | a36(ABC-7) | 0.28418 | 0.00413 | 0.0404 | 0.00038 | 0.65 | 241 | 21 | 254 | 3 | **255** | **2** | -5.5 | -0.4 |
| 71 | a36-CORE(ABC-6) | 0.59925 | 0.01331 | 0.07609 | 0.0008 | 0.47 | 496 | 29 | 477 | 8 | **473** | **5** | 4.9 | 0.8 |
| 72 | a37(ABC-6) | 0.35943 | 0.00408 | 0.04945 | 0.00044 | 0.78 | 317 | 16 | 312 | 3 | **311** | **3** | 1.9 | 0.3 |
| 73 | a37-CORE(ABC-7) | 0.32302 | 0.00455 | 0.04503 | 0.00043 | 0.68 | 287 | 20 | 284 | 3 | **284** | **3** | 1.1 | 0.0 |
| 74 | a38-CORE(ABC-6) | 0.39031 | 0.00586 | 0.05331 | 0.0005 | 0.62 | 333 | 21 | 335 | 4 | **335** | **3** | -0.6 | 0.0 |
| 75 | a38-RIM(ABC-7) | 0.25839 | 0.00491 | 0.03662 | 0.00037 | 0.53 | 249 | 27 | 233 | 4 | **232** | **2** | 7.3 | 0.4 |
| *76* | *a39(ABC-7)* | *0.5263* | *0.00588* | *0.06769* | *0.00062* | *0.82* | *468* | *16* | *429* | *4* | *422* | *4* | *10.9* | *1.7* |
| 77 | a39(ABC-6) | 0.27454 | 0.00792 | 0.03896 | 0.00044 | 0.39 | 246 | 40 | 246 | 6 | **246** | **3** | 0.0 | 0.0 |
| 78 | a3-CORE(ABC-7) | 0.24332 | 0.00321 | 0.03469 | 0.00033 | 0.72 | 235 | 19 | 221 | 3 | **220** | **2** | 6.8 | 0.5 |
| 79 | a3-RIM(ABC-7) | 0.23435 | 0.003 | 0.03374 | 0.00032 | 0.74 | 213 | 18 | 214 | 2 | **214** | **2** | -0.5 | 0.0 |
| 80 | a3-RIM(ABC-6) | 0.56841 | 0.0066 | 0.07356 | 0.00067 | 0.78 | 454 | 16 | 457 | 4 | **458** | **4** | -0.9 | -0.2 |
| *81* | *a4(ABC-7)* | *0.35411* | *0.00383* | *0.04534* | *0.00042* | *0.86* | *478* | *15* | *308* | *3* | *286* | *3* | *67.1* | *7.7* |
| 82 | a4(ABC-6) | 0.25513 | 0.00314 | 0.03644 | 0.00033 | 0.74 | 231 | 18 | 231 | 3 | **231** | **2** | 0.0 | 0.0 |
| *83* | *a40(ABC-7)* | *0.4123* | *0.00634* | *0.05148* | *0.0005* | *0.63* | *533* | *20* | *351* | *5* | *324* | *3* | *64.5* | *8.3* |
| 84 | a40-RIM(ABC-6) | 0.21702 | 0.00303 | 0.03139 | 0.00029 | 0.66 | 201 | 21 | 199 | 3 | **199** | **2** | 1.0 | 0.0 |
| *85* | *a41(ABC-7)* | *0.24125* | *0.00159* | *0.03225* | *0.00027* | *0.99* | *381* | *13* | *219* | *1* | *205* | *2* | *85.9* | *6.8* |
| 86 | a41-CORE(ABC-6) | 0.42893 | 0.00777 | 0.05783 | 0.00057 | 0.54 | 363 | 25 | 362 | 6 | **362** | **3** | 0.3 | 0.0 |
| 87 | a42(ABC-7) | 0.36114 | 0.00501 | 0.04966 | 0.00046 | 0.67 | 318 | 20 | 313 | 4 | **312** | **3** | 1.9 | 0.3 |
| *88* | *a42(ABC-6)* | *0.42199* | *0.00519* | *0.04347* | *0.0004* | *0.75* | *940* | *16* | *357* | *4* | *274* | *2* | *243.1* | *30.3* |
| *89* | *a43(5-ABC-6)* | *0.54693* | *0.00368* | *0.06409* | *0.00055* | *0.99* | *671* | *13* | *443* | *2* | *400* | *3* | *67.8* | *10.8* |
| *90* | *a43-RIM(ABC-7)* | 1.50953 | 0.01692 | 0.15562 | 0.00141 | 0.81 | 939 | 15 | 934 | 7 | **932** | **8** | 0.8 | 0.2 |
| 91 | a44(ABC-7) | 0.22385 | 0.00355 | 0.03222 | 0.0003 | 0.59 | 213 | 23 | 205 | 3 | **204** | **2** | 4.4 | 0.5 |
| 92 | a44(ABC-6) | 1.58719 | 0.01887 | 0.16153 | 0.00148 | 0.77 | 965 | 15 | 965 | 7 | **965** | **8** | 0.0 | 0.0 |
| 93 | a45-CORE(ABC-7) | 0.57728 | 0.00836 | 0.07443 | 0.0007 | 0.65 | 463 | 20 | 463 | 5 | **463** | **4** | 0.0 | 0.0 |
| 94 | a45-RIM(ABC-6) | 0.25447 | 0.00347 | 0.0363 | 0.00034 | 0.69 | 234 | 20 | 230 | 3 | **230** | **2** | 1.7 | 0.0 |
| 95 | a46(ABC-7) | 5.7684 | 0.05989 | 0.35556 | 0.00317 | 0.86 | **1921** | **12** | 1942 | 9 | 1961 | 15 | -2.0 | -1.0 |
| 96 | a46-CORE(ABC-6) | 0.37413 | 0.00481 | 0.05141 | 0.00047 | 0.71 | 320 | 18 | 323 | 4 | **323** | **3** | -0.9 | 0.0 |
| 97 | a46-RIM(ABC-6) | 0.30802 | 0.00363 | 0.04322 | 0.00039 | 0.77 | 272 | 17 | 273 | 3 | **273** | **2** | -0.4 | 0.0 |
| 98 | a47-CORE(ABC-7) | 0.33593 | 0.01105 | 0.04683 | 0.00057 | 0.37 | 287 | 45 | 294 | 8 | **295** | **4** | -2.7 | -0.3 |
| 99 | a47-RIM(ABC-6) | 0.22125 | 0.00549 | 0.03176 | 0.00034 | 0.43 | 220 | 35 | 203 | 5 | **202** | **2** | 8.9 | 0.5 |
| *100* | *a48(ABC-7)* | *0.40737* | *0.00446* | *0.05093* | *0.00046* | *0.82* | *530* | *15* | *347* | *3* | *320* | *3* | *65.6* | *8.4* |
| *101* | *a48(ABC-6)* | *0.3545* | *0.00397* | *0.04881* | *0.00044* | *0.80* | *315* | *16* | *308* | *3* | *307* | *3* | *2.6* | *0.3* |
| 102 | a49(ABC-7) | 0.22929 | 0.00277 | 0.03283 | 0.0003 | 0.76 | 225 | 17 | 210 | 2 | **208** | **2** | 8.2 | 1.0 |
| *103* | *a49(ABC-6)* | *0.25783* | *0.00492* | *0.03612* | *0.00036* | *0.52* | *276* | *27* | *233* | *4* | *229* | *2* | *20.5* | *1.7* |
| *104* | *a5(ABC-7)* | *0.30996* | *0.00571* | *0.03915* | *0.0004* | *0.55* | *508* | *24* | *274* | *4* | *248* | *2* | *104.8* | *10.5* |
| 105 | a5(ABC-6) | 1.50621 | 0.01519 | 0.15568 | 0.0014 | 0.89 | 933 | 13 | 933 | 6 | **933** | **8** | 0.0 | 0.0 |
| 106 | a50(ABC-6) | 0.46679 | 0.00551 | 0.06222 | 0.00057 | 0.78 | 388 | 16 | 389 | 4 | **389** | **3** | -0.3 | 0.0 |
| 107 | a50-CORE(ABC-7) | 4.6217 | 0.05594 | 0.30801 | 0.00285 | 0.76 | **1780** | **14** | 1753 | 10 | 1731 | 14 | 2.8 | 1.3 |
| *108* | *a51(ABC-7)* | *7.19335* | *0.04303* | *0.34399* | *0.00321* | *1.56* | *2365* | *11* | *2136* | *5* | *1906* | *15* | *24.1* | *12.1* |
| 109 | a51(ABC-6) | 0.2745 | 0.00393 | 0.03895 | 0.00037 | 0.66 | 247 | 20 | 246 | 3 | **246** | **2** | 0.4 | 0.0 |
| 110 | a52(ABC-7) | 0.38997 | 0.00438 | 0.05275 | 0.00048 | 0.81 | 355 | 16 | 334 | 3 | **331** | **3** | 7.3 | 0.9 |
| 111 | a52(ABC-6) | 0.29331 | 0.00541 | 0.04099 | 0.00041 | 0.54 | 281 | 25 | 261 | 4 | **259** | **3** | 8.5 | 0.8 |
| 112 | a53(ABC-7) | 1.83708 | 0.01994 | 0.17821 | 0.00161 | 0.83 | **1062** | **14** | 1059 | 7 | 1057 | 9 | 0.5 | 0.2 |
| 113 | a53-CORE(ABC-6) | 0.37776 | 0.00636 | 0.05172 | 0.0005 | 0.57 | 328 | 24 | 325 | 5 | **325** | **3** | 0.9 | 0.0 |
| 114 | a54(ABC-7) | 0.60513 | 0.00687 | 0.07707 | 0.0007 | 0.80 | 490 | 16 | 480 | 4 | **479** | **4** | 2.3 | 0.2 |
| 115 | a54(ABC-6) | 0.2592 | 0.00392 | 0.03698 | 0.00035 | 0.63 | 234 | 22 | 234 | 3 | **234** | **2** | 0.0 | 0.0 |
| 116 | a55(ABC-7) | 6.30541 | 0.06805 | 0.36641 | 0.00333 | 0.84 | **2026** | **12** | 2019 | 9 | 2012 | 16 | 0.7 | 0.3 |
| 117 | a55-RIM(ABC-6) | 0.27298 | 0.00374 | 0.03875 | 0.00036 | 0.68 | 245 | 19 | 245 | 3 | **245** | **2** | 0.0 | 0.0 |
| 118 | a56(ABC-7) | 0.24088 | 0.00458 | 0.03468 | 0.00034 | 0.52 | 213 | 28 | 219 | 4 | **220** | **2** | -3.2 | -0.5 |
| *119* | a56-CORE(ABC-6) | 0.27282 | 0.00595 | 0.03873 | 0.0004 | 0.47 | 246 | 31 | 245 | 5 | **245** | **2** | 0.4 | 0.0 |
| *120* | a57(ABC-7) | 0.24316 | 0.00362 | 0.03504 | 0.00033 | 0.63 | 210 | 21 | 221 | 3 | **222** | **2** | -5.4 | -0.5 |
| *121* | a57(ABC-6) | 0.3449 | 0.00569 | 0.04774 | 0.00046 | 0.58 | 303 | 23 | 301 | 4 | **301** | **3** | 0.7 | 0.0 |
| *122* | *a58(ABC-7)* | *0.28644* | *0.0034* | *0.04091* | *0.00037* | *0.76* | *231* | *17* | *256* | *3* | *258* | *2* | *-10.5* | *-0.8* |
| *123* | *a58(ABC-6,)* | *0.3093* | *0.00239* | *0.03798* | *0.00044* | *0.99* | *570* | *17* | *274* | *2* | *240* | *3* | *137.5* | *14.2* |
| 124 | a59(ABC-7) | 2.02124 | 0.02227 | 0.18649 | 0.00168 | 0.82 | **1163** | **14** | 1123 | 7 | 1102 | 9 | 5.5 | 1.9 |
| *125* | *a59(ABC-6)* | *0.51895* | *0.00611* | *0.05443* | *0.0005* | *0.78* | *904* | *15* | *424* | *4* | *342* | *3* | *164.3* | *24.0* |
| 126 | a60(ABC-7) | 0.37929 | 0.00664 | 0.05188 | 0.00051 | 0.56 | 330 | 24 | 327 | 5 | **326** | **3** | 1.2 | 0.3 |
| 127 | a60(ABC-6) | 0.38616 | 0.00501 | 0.05273 | 0.00049 | 0.72 | 334 | 18 | 332 | 4 | **331** | **3** | 0.9 | 0.3 |
| 128 | a61(ABC-7) | 0.32788 | 0.00649 | 0.04559 | 0.00045 | 0.50 | 292 | 27 | 288 | 5 | **287** | **3** | 1.7 | 0.3 |
| 129 | a61(ABC-6) | 0.24736 | 0.00331 | 0.03526 | 0.00033 | 0.70 | 236 | 19 | 224 | 3 | **223** | **2** | 5.8 | 0.4 |
| 130 | a62(ABC-7) | 0.2482 | 0.00405 | 0.03552 | 0.00034 | 0.59 | 226 | 23 | 225 | 3 | **225** | **2** | 0.4 | 0.0 |
| 131 | a62(ABC-67) | 0.259 | 0.00356 | 0.03688 | 0.00034 | 0.67 | 238 | 20 | 234 | 3 | **233** | **2** | 2.1 | 0.4 |
| 132 | a63(ABC-7) | 0.26849 | 0.0033 | 0.03819 | 0.00034 | 0.72 | 240 | 18 | 241 | 3 | **242** | **2** | -0.8 | -0.4 |
| 133 | a63-RIM(ABC-6) | 0.25827 | 0.00367 | 0.03706 | 0.00035 | 0.66 | 220 | 20 | 233 | 3 | **235** | **2** | -6.4 | -0.9 |
| 134 | a64(ABC-7) | 0.57698 | 0.00692 | 0.07427 | 0.00067 | 0.75 | 466 | 17 | 463 | 4 | **462** | **4** | 0.9 | 0.2 |
| 135 | a64(ABC-6) | 0.27547 | 0.00325 | 0.03878 | 0.00035 | 0.76 | 264 | 17 | 247 | 3 | **245** | **2** | 7.8 | 0.8 |
| *136* | *a65(ABC-6)* | *0.48534* | *0.00652* | *0.06195* | *0.00057* | *0.68* | *485* | *18* | *402* | *4* | *387* | *3* | *25.3* | *3.9* |
| 137 | a65-RIM(ABC-7) | 0.25166 | 0.00321 | 0.03588 | 0.00032 | 0.70 | 235 | 19 | 228 | 3 | **227** | **2** | 3.5 | 0.4 |
| 138 | a66(ABC-7) | 0.26876 | 0.00342 | 0.03822 | 0.00034 | 0.70 | 241 | 18 | 242 | 3 | **242** | **2** | -0.4 | 0.0 |
| *139* | *a66(ABC-6)* | *1.62078* | *0.01728* | *0.15017* | *0.00134* | *0.84* | *1154* | *13* | *978* | *7* | *902* | *8* | *27.9* | *8.4* |
| *140* | *a67(ABC-6)* | *0.5515* | *0.0061* | *0.05837* | *0.00052* | *0.81* | *885* | *15* | *446* | *4* | *366* | *3* | *141.8* | *21.9* |
| 141 | a67-RIM(ABC-7) | 0.57773 | 0.00829 | 0.07429 | 0.00069 | 0.65 | 469 | 20 | 463 | 5 | **462** | **4** | 1.5 | 0.2 |
| *142* | *a68(ABC-7)* | *0.2752* | *0.0031* | *0.03182* | *0.00028* | *0.78* | *699* | *15* | *247* | *2* | *202* | *2* | *246.0* | *22.3* |
| *143* | *a68(ABC-6)* | *0.32115* | *0.00475* | *0.04345* | *0.0004* | *0.62* | *355* | *21* | *283* | *4* | *274* | *2* | *29.6* | *3.3* |
| 144 | a69(ABC-7) | 0.47288 | 0.00704 | 0.06227 | 0.00058 | 0.63 | 415 | 20 | 393 | 5 | **389** | **4** | 6.7 | 1.0 |
| *145* | *a69(ABC-6)* | *0.22446* | *0.00158* | *0.02984* | *0.00033* | *0.99* | *394* | *16* | *206* | *1* | *190* | *2* | *107.4* | *8.4* |
| 146 | a6-CORE(ABC-7) | 0.29015 | 0.00426 | 0.0409 | 0.00039 | 0.65 | 261 | 20 | 259 | 3 | **258** | **2** | 1.2 | 0.4 |
| 147 | a6-RIM(ABC-6) | 0.27441 | 0.00508 | 0.03892 | 0.00038 | 0.53 | 247 | 26 | 246 | 4 | **246** | **2** | 0.4 | 0.0 |
| 148 | a7-(ABC-6) | 0.24892 | 0.00372 | 0.03547 | 0.00033 | 0.62 | 236 | 22 | 226 | 3 | **225** | **2** | 4.9 | 0.4 |
| *149* | *a70(ABC-6)* | *0.54214* | *0.00625* | *0.06542* | *0.00058* | *0.77* | *608* | *16* | *440* | *4* | *409* | *4* | *48.7* | *7.6* |
| 150 | a70-RIM(ABC-7) | 0.25024 | 0.00331 | 0.03567 | 0.00032 | 0.68 | 235 | 19 | 227 | 3 | **226** | **2** | 4.0 | 0.4 |
| *151* | *a71(ABC-7)* | *0.26818* | *0.00392* | *0.03586* | *0.00033* | *0.63* | *381* | *20* | *241* | *3* | *227* | *2* | *67.8* | *6.2* |
| *152* | *a71(ABC-6)* | *0.22347* | *0.00291* | *0.03082* | *0.00027* | *0.67* | *311* | *19* | *205* | *2* | *196* | *2* | *58.7* | *4.6* |
| 153 | a72(ABC-7) | 0.85731 | 0.00908 | 0.10178 | 0.0009 | 0.83 | 643 | 14 | 629 | 5 | **625** | **5** | 2.9 | 0.6 |
| 154 | a72(ABC-6) | 0.30646 | 0.00385 | 0.04258 | 0.00038 | 0.71 | 295 | 18 | 271 | 3 | **269** | **2** | 9.7 | 0.7 |
| 155 | a73(ABC-7) | 0.22458 | 0.00407 | 0.03236 | 0.00031 | 0.53 | 211 | 25 | 206 | 3 | **205** | **2** | 2.9 | 0.5 |
| 156 | a73(ABC-6) | 0.54014 | 0.00648 | 0.07037 | 0.00062 | 0.73 | 439 | 17 | 439 | 4 | **438** | **4** | 0.2 | 0.2 |
| *157* | *a74(ABC-7)* | *0.26659* | *0.00191* | *0.03496* | *0.0003* | *0.99* | *425* | *14* | *240* | *2* | *222* | *2* | *91.4* | *8.1* |
| *158* | *a74(ABC-6)* | *0.3415* | *0.00482* | *0.04555* | *0.00041* | *0.64* | *386* | *20* | *298* | *4* | *287* | *3* | *34.5* | *3.8* |
| 159 | a75(ABC-7) | 0.49205 | 0.00775 | 0.06436 | 0.00061 | 0.60 | 430 | 21 | 406 | 5 | **402** | **4** | 7.0 | 1.0 |
| 160 | a76(ABC-7) | 0.30095 | 0.00356 | 0.04266 | 0.00038 | 0.75 | 248 | 18 | 267 | 3 | **269** | **2** | -7.8 | -0.7 |
| 161 | a77(ABC-7) | 0.4116 | 0.00667 | 0.05509 | 0.00052 | 0.58 | 379 | 22 | 350 | 5 | **346** | **3** | 9.5 | 1.2 |
| *162* | *a78(ABC-7)* | *0.22356* | *0.00238* | *0.02328* | *0.00021* | *0.85* | *918* | *14* | *205* | *2* | *148* | *1* | *520.3* | *38.5* |
| *163* | *a79(ABC-7)* | *0.24009* | *0.00158* | *0.03115* | *0.00031* | *0.99* | *449* | *15* | *218* | *1* | *198* | *2* | *126.8* | *10.1* |
| 164 | a7-CORE(ABC-7) | 0.57332 | 0.00857 | 0.07428 | 0.00072 | 0.65 | 452 | 20 | 460 | 6 | **462** | **4** | -2.2 | -0.4 |
| *165* | *a8(ABC-7)* | *4.0916* | *0.04288* | *0.2178* | *0.00199* | *0.87* | *2180* | *12* | *1653* | *9* | *1270* | *11* | *71.7* | *30.2* |
| 166 | a8(ABC-6) | 8.86519 | 0.08921 | 0.43383 | 0.00389 | 0.89 | **2325** | **11** | 2324 | 9 | 2323 | 17 | 0.1 | 0.0 |
| 167 | a80(ABC-7) | 3.24677 | 0.03613 | 0.24493 | 0.0022 | 0.81 | **1551** | **13** | 1468 | 9 | 1412 | 11 | 9.8 | 4.0 |
| 168 | a81(ABC-7) | 0.24885 | 0.00413 | 0.03548 | 0.00034 | 0.58 | 235 | 23 | 226 | 3 | **225** | **2** | 4.4 | 0.4 |
| 169 | a82(ABC-7) | 0.29512 | 0.00355 | 0.04155 | 0.00037 | 0.74 | 264 | 18 | 263 | 3 | **262** | **2** | 0.8 | 0.4 |
| 170 | a83(ABC-7) | 0.29874 | 0.00864 | 0.0421 | 0.00048 | 0.39 | 262 | 40 | 265 | 7 | **266** | **3** | -1.5 | -0.4 |
| *171* | *a84(ABC-7)* | *1.44776* | *0.00897* | *0.14088* | *0.00129* | *0.99* | *1056* | *13* | *909* | *4* | *850* | *7* | *24.2* | *6.9* |
| 172 | a85(ABC-7) | 0.24323 | 0.00273 | 0.03498 | 0.00031 | 0.79 | 215 | 16 | 221 | **2** | **222** | 2 | -3.2 | -0.5 |
| *173* | *a86(ABC-7)* | *0.27005* | *0.00367* | *0.03475* | *0.00032* | *0.68* | *467* | *19* | *243* | *3* | *220* | *2* | *112.3* | *10.5* |
| *174* | *a87(ABC-7)* | *0.30642* | *0.00453* | *0.03707* | *0.00035* | *0.64* | *602* | *20* | *271* | *4* | *235* | *2* | *156.2* | *15.3* |
| *175* | *a88(ABC-7)* | *0.23552* | *0.00328* | *0.03302* | *0.00031* | *0.67* | *273* | *20* | *215* | *3* | *209* | *2* | *30.6* | *2.9* |
| 176 | a89-RIM(ABC-7) | 0.29677 | 0.00492 | 0.04184 | 0.0004 | 0.58 | 261 | 23 | 264 | 4 | **264** | **2** | -1.1 | 0.0 |
| 177 | a9(ABC-6) | 0.38084 | 0.0043 | 0.05211 | 0.00047 | 0.80 | 329 | 16 | 328 | 3 | **327** | **3** | 0.6 | 0.3 |
| *178* | *a90(ABC-7)* | *0.30066* | *0.0024* | *0.03537* | *0.00039* | *0.99* | *662* | *16* | *267* | *2* | *224* | *2* | *195.5* | *19.2* |
| 179 | a91(ABC-7) | 0.635 | 0.00752 | 0.08049 | 0.00073 | 0.77 | 500 | 17 | 499 | 5 | **499** | **4** | 0.2 | 0.0 |
| 180 | a92(ABC-7) | 1.39892 | 0.0182 | 0.1455 | 0.00136 | 0.72 | 920 | 17 | 888 | 8 | **876** | **8** | 5.0 | 1.4 |
| 181 | a93(ABC-7) | 0.25596 | 0.00352 | 0.03646 | 0.00034 | 0.68 | 237 | 20 | 231 | 3 | **231** | **2** | 2.6 | 0.0 |
| *182* | *a94(ABC-7)* | *0.30023* | *0.00381* | *0.0398* | *0.00037* | *0.73* | *400* | *18* | *267* | *3* | *252* | *2* | *58.7* | *6.0* |
| 183 | a95(ABC-7) | 0.2692 | 0.00324 | 0.03854 | 0.00035 | 0.75 | 226 | 17 | 242 | 3 | **244** | **2** | -7.4 | -0.8 |
| 184 | a96(ABC-7) | 0.59246 | 0.00675 | 0.07563 | 0.00069 | 0.80 | 485 | 16 | 472 | 4 | **470** | **4** | 3.2 | 0.4 |
| 185 | a97(ABC-7) | 0.57751 | 0.00665 | 0.07418 | 0.00068 | 0.80 | 471 | 16 | 463 | 4 | **461** | **4** | 2.2 | 0.4 |
| 186 | a98(ABC-7) | 0.27646 | 0.0041 | 0.03919 | 0.00037 | 0.64 | 248 | 22 | 248 | 3 | **248** | **2** | 0.0 | 0.0 |
| 187 | a99(ABC-7) | 1.36996 | 0.01728 | 0.14603 | 0.00136 | 0.74 | 870 | 16 | 876 | 7 | **879** | **8** | -1.0 | -0.3 |
| 188 | a9-RIM(ABC-7) | 0.65285 | 0.00755 | 0.08244 | 0.00076 | 0.80 | 508 | 16 | 510 | 5 | **511** | **5** | -0.6 | -0.2 |

Примечание. Суффиксы около номера анализа в пробе означают, что возраст определен по части записи сигнала, соответствующей: CORE – центральной (? ядро), RIM – конечной (? кайма) частям; ABC-6 и ABC-7 – номера шашек. Полужирным шрифтом выделены значения, принятые за возраст (при возрасте <1 млрд лет для вычисления возраста использованы отношения 206Pb/238U, при возрасте ≥1 млрд лет – отношения 207Pb/206Pb). Подчеркнуты минимальный и максимальный возрасты в пробе. D1 и D2 – дискордантность датировок: D1 = 100% × (возраст (207Pb/235U)/возраст (206Pb/238U) – 1); D2 = 100% × (возраст (207Pb/206Pb)/возраст (206Pb/238U) – 1). Для коррекции на обычный свинец использована программа ComPbCorr, составленная T. Andersen (2008). Теоретические основы коррекции и формулы, по которым проводится коррекция, приведены в работе (Andersen, 2002). Нарушение изотопной U–Th–Pb системы зерна циркона оценивается, исходя из измеренных содержаний изотопов свинца 206Pb, 207Pb и 208Pb в цирконе и известных изотопных соотношений между изотопами свинца, которые в программе приняты как 206Pb/204Pb = 18.7, 207Pb/204Pb = 15.628, 208Pb/204Pb = 38.63. Для построения гистограммы и кривой плотности вероятности (КПВ) использовались анализы (кондиционные датировки), удовлетворяющие трем условиям (1) –10% < D1 и D2 <10%, (2) аналитическая ошибка измерений обеспечивает точность оценки возраста < 50 млн лет и (3) поправка на общий свинец меняет возраст <50 млн лет. Датировки (курсив), не удовлетворяющие этим условиям, не учитывались при построении гистограмм и КПВ.

СПИСОК ЛИТЕРАТУРЫ

*Andersen T.* Correction of common lead in U–Pb analyses that do not report 204Pb // Chem. Geol. 2002. V. 192. P. 59–79.

*Andersen T.* ComPbCorr – Software for common lead correction of U–Th–Pb analyses that do not report 204Pb // LA-ICP-MS in the Earth Sciences: Principles and Applications. Ed. Sylvester P.J. Mineral. Assoc. Can. Short Course Ser. 2008. V. 40. P. 312–314.