**表1**.白云鄂博一号岩墙碳酸岩和交代围岩（霓长岩、石英砾岩）独居石Th-Pb年代学数据

**Table 1** SHRIMP Th-Pb geochronology data for monazite from the Wu Dyke and its wall-rocks at Bayan Obo

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Analysis no. | U(ppm) | Th(ppm) | Th/U | *f*208 (%) | Ratio | Age (Ma) |
| 208Pb\*/232Th | 1σ | 208Pb\*/232Th  | 1σ |
| 碳酸岩（Wu-1） |  |  |  |  |  |  |  |
| 1721A.4-1 | 0.3 | 6863 | 20363 | 1.15 | 0.0745 | 0.0029 | 1453 | 55 |
| 1721A.1-2 | 0.4 | 8983 | 21798 | 0.26 | 0.0740 | 0.0028 | 1443 | 53 |
| 1721A.3-1 | 0.4 | 6401 | 15190 | 0.04 | 0.0726 | 0.0029 | 1417 | 56 |
| 1721A.3-2 | 0.2 | 2610 | 16215 | 0.48 | 0.0720 | 0.0028 | 1406 | 52 |
| 1721A.1-1 | 0.1 | 9056 | 132708 | 0.02 | 0.0717 | 0.0028 | 1400 | 53 |
| 1721A.3-3 | 0.9 | 10027 | 11449 | 0.06 | 0.0694 | 0.0026 | 1356 | 50 |
| 1721A.2-2 | 0.7 | 11094 | 15926 | 0.05 | 0.0691 | 0.0026 | 1351 | 50 |
| 1721B.3-1 | 1.5 | 16857 | 11242 | 0.14 | 0.0640 | 0.0028 | 1255 | 53 |
| 1721A.2-1 | 0.6 | 9580 | 16969 | 0.12 | 0.0636 | 0.0025 | 1247 | 48 |
| 1721B.4-1 | 0.4 | 6106 | 15697 | 0.26 | 0.0627 | 0.0032 | 1228 | 60 |
| 1721B.2-1 | 0.3 | 4219 | 13231 | 0.22 | 0.0560 | 0.0036 | 1102 | 69 |
| 1721B.1-1 | 0.3 | 10115 | 30045 | 1.61 | 0.0457 | 0.0020 | 904 | 39 |
| 1721A.1-3 | 1.2 | 15025 | 12454 | 0.24 | 0.0452 | 0.0024 | 894 | 47 |
| 霓长岩（Wu-2）  |  |  |  |  |  |
| 1721E.1-1 | 1.1 | 6104 | 5564 | 0.28 | 0.0593 | 0.0025 | 1164 | 48 |
| 1721C.1-1 | 0.5 | 15431 | 31084 | 0.03 | 0.0555 | 0.0021 | 1092 | 41 |
| 1721C.3-1 | 0.7 | 13335 | 18104 | 0.09 | 0.0520 | 0.0028 | 1024 | 55 |
| 1721C.4-1 | 1.1 | 10162 | 9066 | 0.13 | 0.0430 | 0.0017 | 852 | 32 |
| 1721C.2-1 | 1.0 | 10388 | 10063 | 0.02 | 0.0210 | 0.0008 | 420 | 16 |
| 石英砾岩（Wu-4）  |  |  |  |  |  |  |  |
| 1721G.3-1 | 7 | 12378 | 1813 | 0.45 | 0.0562 | 0.0021 | 1106 | 41 |
| 1721F.1-1 | 102 | 19988 | 197 | 0.81 | 0.0501 | 0.0021 | 988 | 40 |
| 1721H.3-1 | 7 | 11247 | 1688 | 0.68 | 0.0470 | 0.0021 | 928 | 40 |
| 1721G.5-1 | 27 | 12964 | 473 | 0.65 | 0.0457 | 0.0019 | 903 | 38 |
| 1721H.1-1 | 32 | 15277 | 474 | 0.65 | 0.0281 | 0.0011 | 560 | 21 |
| 1721G.2-1 | 23 | 16966 | 745 | 0.68 | 0.0273 | 0.0011 | 545 | 21 |
| 1721G.4-1 | 40 | 17598 | 443 | 0.96 | 0.0265 | 0.0011 | 529 | 21 |
| 1721G.1-1 | 32 | 18512 | 576 | 0.66 | 0.0261 | 0.0011 | 520 | 21 |
| 1721H.2-1 | 36 | 18370 | 515 | 0.43 | 0.0261 | 0.0011 | 520 | 21 |
| 1721H.1-2 | 5 | 10202 | 1902 | 1.46 | 0.0251 | 0.0010 | 501 | 20 |

Pb\*指放射成因Pb；*f*208 代表208Pb中的非放射成因Pb（普通Pb）的比例，由Pb同位素组成测量值和Stacey-Kramers (1975)演化模式算得；数据按208Pb\*/232Th年龄降序排列。

**表2.**白云鄂博一号岩墙交代围岩石英砾岩锆石U-Pb年代学数据

**Table 1** SHRIMP U-Pb geochronology data for zircon from the quartz pebble wall rock of the Wu Dyke at Bayan Obo

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Analysis no.** | **U****(ppm)** | **Th****(ppm)** | **Th/U** | ***f*206 (%)** | **Ratios** | **Disc.****(%)** | **Ages (Ma)** |
| **238U/206Pb\*** | **±** | **207Pb\*/206Pb\*** | **±** | **238U/206Pb\*** | **±** | **207Pb\*/206Pb\***  | **±** |
| 石英砾岩（Wu-4） |  |  |  |  |  |  |  |  |
| 1721F.1-1 | 673 | 493 | 0.76 | 0.95 | 2.713 | 0.035 | 0.1274 | 0.0019 | +2 | 2023 | 22 | 2063 | 27 |
| 1721F.2-1 | 279 | 116 | 0.43 | 0.04 | 2.611 | 0.047 | 0.1272 | 0.0008 | -2 | 2090 | 32 | 2060 | 12 |
| 1721F.4-1 | 803 | 293 | 0.38 | 0.02 | 2.665 | 0.034 | 0.1239 | 0.0005 | -2 | 2054 | 22 | 2013 | 8 |
| 1721H.2-1 | 101 | 23 | 0.24 | 0.12 | 2.826 | 0.051 | 0.1216 | 0.0016 | +2 | 1953 | 30 | 1980 | 23 |
| 1721H.3-2 | 113 | 35 | 0.32 | 0.12 | 2.778 | 0.049 | 0.1214 | 0.0016 | -0 | 1982 | 30 | 1977 | 23 |
| 1721H.5-2 | 284 | 62 | 0.23 | 0.05 | 2.829 | 0.041 | 0.1213 | 0.0010 | +1 | 1951 | 24 | 1975 | 14 |
| 1721H.5-1 | 465 | 157 | 0.35 | 0.10 | 2.791 | 0.037 | 0.1200 | 0.0012 | -1 | 1974 | 23 | 1956 | 19 |
| 1721H.4-2 | 273 | 59 | 0.22 | 0.18 | 2.777 | 0.040 | 0.1195 | 0.0017 | -2 | 1983 | 25 | 1949 | 26 |
| 1721H.2-2 | 757 | 87 | 0.12 | 0.15 | 2.651 | 0.038 | 0.1193 | 0.0008 | -7 | 2063 | 26 | 1946 | 12 |
| 1721H.4-1 | 336 | 33 | 0.10 | 0.16 | 2.767 | 0.038 | 0.1191 | 0.0009 | -3 | 1989 | 24 | 1943 | 13 |
| 1721H.3-1 | 99 | 40 | 0.42 | 0.52 | 2.878 | 0.051 | 0.1182 | 0.0020 | +0 | 1922 | 30 | 1929 | 31 |
| 1721H.1-1 | 593 | 145 | 0.25 | 0.06 | 2.795 | 0.036 | 0.1177 | 0.0006 | -3 | 1972 | 22 | 1921 | 10 |
| 1721H.1-2 | 540 | 88 | 0.17 | 0.19 | 2.794 | 0.036 | 0.1166 | 0.0007 | -4 | 1972 | 22 | 1905 | 11 |
| *Rejected（普通Pb高或协和度差）* |  |  |  |  |  |  |  |  |  |  |
| 1721F.3-1 | 517 | 1998 | 3.99 | 3.12 | 3.850 | 0.051 | 0.0990 | 0.0023 | +8 | 1488 | 18 | 1605 | 43 |
| 1721F.1-2 | 387 | 207 | 0.55 | 0.48 | 3.051 | 0.050 | 0.1292 | 0.0019 | +14 | 1827 | 26 | 2087 | 26 |

Pb\*指放射成因Pb；*f*206 代表206Pb中的非放射成因Pb（普通Pb）的比例，由Pb同位素组成测量值和Stacey-Kramers (1975)演化模式算得；数据按207Pb\*/206Pb\*年龄降序排列。