Table 1. Summary of pegmatite geochronology results

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample no. | | Pegmatite and location | | Type | CATIMS zircon | TIMS other minerals | 40/39 muscovite | LAICPMS apatite | AFT | Latitude (deg.) | Longitude (deg.) |
| 11Dw301a | | Black Mtn., ME | | LCT | Not dated | Not dated | 295.0±3.7 | Not dated | ca. 85 | 44.5855 | -70.6469 |
| 11Dw304a | | Mt Mica, ME (Main Pit) | | LCT | Xenocrysts, Devonian and older | Not dated | 253.5±2.2 | 267.6±7.9 | 85±5 | 44.2692 | -70.4733 |
| 11Dw305a | | Mt. Mica (Irish Pit), ME | | LCT | 263.89 ± 0.18/0.35 | Not dated | 259.9±2.3 | Not dated | Not dated | 44.2694 | -70.4716 |
| 11Dw302b | | Emmons, ME | | LCT | Xenocrysts: Silurian and Ordovician | Not dated | 250.4±2.3 | 270.4±8.1 | ca. 68 | 44.3234 | -70.6960 |
| 10Dw501b | | Lord Hill, ME | | NYF-LCT | Not dated | Not dated | 231.8±3.0 | Not dated | 99±7 | 44.2241 | -70.9542 |
| 11Dw309a | | Parker Mtn., NH | | LCT | 361.08 ± 0.24/0.48 | Not dated | 268.3±2.5 | 336.1±9.5 | 92±4 | 43.2938 | -71.1571 |
| 11Dw303a | | Palermo #1, NH | | LCT | 326.40 ± 0.27/0.46; | Not dated | 294.2±2.7 | Not dated | 134±9 | 43.7514 | -71.8896 |
| 10Dw500a | | Beryl Mtn, NH | | LCT | 341.24 ± 0.43/0.58 | Not dated | 269.0±3.1 | Not useful | 99±7 | 43.1811 | -72.2941 |
| 12Dw60a | | Chickering, NH | | LCT | Not dated | Not dated | 303.4±3.2 | Not dated | Not dated | 43.0815 | -72.3799 |
| 11DW300a | | Clark Ledge, MA | | LCT | 370.74 ± 0.15/0.45 | Not dated | 339.1±2.8 | Not dated | Not dated | 42.4199 | -72.8719 |
| 10AMC3 | | Anderson, CT | | LCT | 273.19 ± 0.11/0.33 | Not dated | 243.2±0.9 | Not useful | 134±7 | 41.5934 | -72.5401 |
| 14DW3 | | Branchville, CT | | LCT | Not dated | Not dated | 335.5±2.0 | Not dated | Not dated | 41.268 | -73.4393 |
| 10Dw507b | | Ray, NC | | LCT | 366.20 +/- 0.39/0.58 | Not dated | Not dated | Not dated | Not dated | 35.8897 | -82.2748 |
| 10Dw508Z | | Morefield, VA | | NYF | 253.01 +/- 0.16/0.33 | Not dated | Not dated | Not dated | Not dated | 37.3606 | -77.9139 |
|  |  | |
| — | | Brazil Lake, Nova Scotia | | LCT | Not dated | 395±2, columbite | *ca.* 347 | Not dated | Not dated | 44.009 | -65.997 |
| 3172 | | Appleton Ridge, ME | | LCT | Not dated | Not dated | Not dated | Not dated | Not dated | 44.32 | -69.22 |
| — | | Starrett, Maine | | LCT | Not dated | Not dated | Not dated | Not dated | Not dated | 44.1128 | -69.2700 |
| — | | Georgetown, Maine | | LCT | Not dated | Not dated | Not dated | Not dated | Not dated | 43.7747 | [-69.7672](http://maps.google.com/maps?q=43.7747222222,-69.7672222222&spn=0.025,0.025) |
|  | | Bemis Stream, ME | | LCT | Not dated | Not dated | Not dated | Not dated | Not dated | 44.8246 | -70.7167 |
| — | | Long Hill, MA | | LCT | Not dated | Not dated | Not dated | Not dated | Not dated | 42.5064 | -71.7822 |
| — | | Raymond, NH | | LCT | Not dated | Not dated | Not dated | Not dated | Not dated | 43.01 | -71.23 |
| 10Dw503 | | Foote, NC  (FMC mine) | | LCT | Not dated | Not dated | Not dated | Not dated | Not dated | 35.2237 | -81.3535 |
| — | | McAlester, Alabama | | LCT | Not dated | Not dated | *ca.* 320 | Not dated | Not dated | 32.885 | -86.248 |

Table 2: Summary of muscovite 40Ar/39Ar step heating results.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample no.** | **Pegmatite** | **Integrated**  **Age (Ma)** | **Plateau**  **Age (Ma)** | **Plateau**  **Information** |
| 10ADw500a | Beryl Mountain | 269.3±3.1 | **269.0±3.1** | 5 of 11 fractions 94.5 %39Ar release  MSWD = 0.97 |
| 10ADw501b | Lord Hill | 231.6±3.0 | **231.8±3.0** | 5 of 9 fractions  99.1% 39Ar release  MSWD = 0.39 |
| 10AMC3 | Anderson | 243.5±0.9 | **243.2±0.9** | 4 of 11 fractions 93.4 %39Ar release  MSWD = 0.87 |
| 11Dw300a | Clark Ledge | 339.0± 2.8 | **339.1±2.8** | 7 of 9 fractions  99.7% 39Ar release  MSWD = 0.36 |
| 11Dw301a | Palermo | 295.1± 2.8 | **295.0±3.7** | 5 of 9 fractions  99.0% 39Ar release  MSWD = 1.76 |
| 11Dw302B | Emmons | 250.6± 2.3 | **250.4±2.3** | 7 of 9 fractions  99.0% 39Ar release  MSWD = 0.63 |
| 11Dw303a | Black Mountain | 294.0± 2.6 | **294.2±2.7** | 5 of 9 fractions  98.6% 39Ar release  MSWD = 0.63 |
| 11Dw304a | Mount Mica (Main Pit) | 249.9± 2.1 | **253.5±2.2** | 4 of 9 fractions  89.3% 39Ar release  MSWD = 0.48 |
| 11Dw305a | Mount Mica (Irish Pit) | 259.8± 2.3 | **259.9±2.3** | 8 of 9 fractions  99.8% 39Ar release  MSWD = 0.69 |
| 11DW309A | Parker Mountain | 268.2± 2.4 | **268.3±2.4** | 6 of 9 fractions  99.6% 39Ar release  MSWD = 0.61 |
| 12DW60A | Chickering? | 304.3± 3.2 | **303.4±3.2** | 4 of 9 fractions  96.6% 39Ar release  MSWD = 0.18 |
| 14Dw1 | Branchville | 336.5±1.3 | **335.5±2.0** | 3 of 11 fractions  53.4% 39Ar release  MSWD = 1.98 |

Samples analyzed with standard MMhb-1 an age of 513.9 Ma.

Most robust age in **bold**.