

The Geological Timescale Versus Radiometric Dating

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The Ordovician Period 445 To 489 Million Years Ago

1. Lens with Sub-Baltic Shield,

Journal Of Petrology, 2004, Volume 45, Number 2, Pages 415-437

| 187Os/188Os | 187Os/188Os | 187Re/188Os | 187Re/188Os | 187Re/188Os | 187Re/188Os | 187Re/188Os |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| -40,956 | -7,436 | 34,000 | 4,900 | -3,200 | -6,000 | -9,564 |
| -27,584 | -7,420 | 26,000 | 4,800 | -3,200 | -6,111 | -9,700 |
| -26,880 | -7,273 | 23,000 | 4,600 | -3,400 | -6,160 | -9,800 |
| -23,852 | -6,291 | 19,000 | 4,300 | -3,500 | -6,291 | -10,000 |
| -18,664 | -6,160 | 17,000 | 3,500 | -3,700 | -6,700 | -10,088 |
| -18,173 | -6,111 | 15,000 | 3,200 | -3,738 | -6,800 | -10,235 |
| -16,520 | -5,816 | 13,000 | 2,000 | -3,770 | -6,900 | -11,000 |
| -16,471 | -5,161 | 13,000 | 1,500 | -3,967 | -7,000 | -11,000 |
| -15,800 | -4,703 | 11,000 | 1,400 | -3,983 | -7,273 | -11,168 |
| -14,638 | -4,621 | 9,300 | 1,400 | -4,100 | -7,420 | -12,000 |
| -14,163 | -4,229 | 8,100 | 1,205 | -4,200 | -7,436 | -12,968 |
| -12,968 | -3,983 | 7,600 | -10 | -4,229 | -7,584 | -13,000 |
| -11,168 | -3,967 | 7,000 | -20 | -4,600 | -8,100 | -14,000 |
| -10,235 | -3,770 | 6,700 | -317 | -4,621 | -8,680 | -14,163 |
| -10,088 | -3,738 | 6,500 | -700 | -4,703 | -8,800 | -14,638 |
| -9,564 | -2,805 | 6,300 | -1,102 | -5,161 | -9,000 | -15,000 |
| -9,433 | -1,790 | 5,800 | -1,400 | -5,200 | -9,000 | -15,800 |
| -9,270 | -1,102 | 5,800 | -1,790 | -5,600 | -9,100 | -16,000 |
| -8,680 | -317 | 5,600 | -2,300 | -5,700 | -9,270 | -16,471 |
| -7,584 | | 5,400 | -2,805 | -5,816 | -9,433 | -16,520 |

2. North-Central Norwegian Caledonides

Geosphere, 2007, Volume 3, no. 6, p. 683-703,

http://geosphere.gsapubs.org/content/suppl/2009/02/18/4.5.829.DC1/10.1130_GES00166-S1.xls

| 207Pb/206Pb | 207Pb/206Pb | 207Pb/206Pb | 207Pb/206Pb |
|-------------|-------------|-------------|-------------|
| 5,603 | 4,965 | 4,962 | 4,960 |
| 4,998 | 4,965 | 4,962 | 4,960 |
| 4,972 | 4,965 | 4,962 | 4,960 |
| 4,971 | 4,965 | 4,962 | 4,960 |
| 4,969 | 4,964 | 4,962 | 4,960 |
| 4,968 | 4,964 | 4,962 | 4,959 |
| 4,968 | 4,964 | 4,962 | 4,959 |
| 4,968 | 4,964 | 4,962 | 4,959 |
| 4,967 | 4,964 | 4,962 | 4,959 |
| 4,967 | 4,964 | 4,962 | 4,959 |
| 4,967 | 4,964 | 4,962 | 4,959 |
| 4,966 | 4,964 | 4,961 | 4,959 |
| 4,966 | 4,964 | 4,961 | 4,958 |
| 4,966 | 4,964 | 4,961 | 4,958 |
| 4,966 | 4,964 | 4,961 | 4,958 |
| 4,966 | 4,964 | 4,961 | 4,958 |
| 4,966 | 4,963 | 4,960 | 4,957 |
| 4,966 | 4,963 | 4,960 | 4,957 |
| 4,966 | 4,963 | 4,960 | 4,952 |
| 4,966 | 4,963 | 4,960 | |
| 4,966 | 4,963 | 4,960 | |
| 4,965 | 4,963 | 4,960 | |

3. The Peace River Shocked M Chondrite,

Geochemica Et Cosmochemica Acta, 1988, Volume 52, Pages 2487 - 2499

| 40Ar/39Ar Age | 40Ar/39Ar Age | 40Ar/39Ar Age | 40Ar/39Ar Age | 40Ar/39Ar Age |
|---------------|---------------|---------------|---------------|---------------|
| 190 | 422 | 950 | 500 | 510 |
| 347 | 434 | 1,060 | 520 | 515 |
| 408 | 456 | 1,120 | 530 | 555 |
| 447 | 469 | 2,000 | 540 | 560 |
| 463 | 518 | 2,780 | 550 | 580 |
| 467 | 518 | 3,240 | 550 | 630 |
| 503 | 552 | 3,260 | 560 | 665 |
| 534 | 579 | 3,390 | 560 | 670 |
| 543 | 661 | 3,680 | 560 | 700 |
| 753 | 702 | 3,760 | 580 | 700 |
| 889 | 714 | 4,020 | 590 | 720 |
| 1,175 | 830 | 5,270 | 600 | 760 |
| 1,470 | 917 | 6,130 | 600 | 775 |
| 1,984 | 1,173 | | 600 | 810 |
| 2,088 | 1,270 | | 620 | 830 |
| 2,138 | 1,576 | | 635 | 895 |
| 2,175 | 1,741 | | 660 | 995 |
| 2,395 | 1,808 | | 710 | 1,900 |
| 2,489 | 1,810 | | 720 | 1,935 |
| 2,568 | 2,035 | | 725 | 2,465 |
| 2,589 | 2,228 | | 755 | 3,650 |
| 2,770 | 2,488 | | 780 | 5,100 |
| 2,960 | 2,786 | | 810 | 5,225 |
| 3,176 | 5,006 | | 830 | 5,260 |
| | | | 850 | 5,425 |
| | | | 920 | 5,860 |
| | | | 1,070 | 6,440 |
| | | | 1,185 | 7,100 |
| | | | 1,230 | |
| | | | 1,590 | |
| | | | 2,515 | |

4. U-Th-Pb Analysis Of Baddeleyites,

<http://www.lpi.usra.edu/meetings/lpsc2011/pdf/1243.pdf>

| 206Pb/207Pb | 207Pb/235U | 206Pb/238U |
|-------------|------------|------------|
| 4,149 | 2,304 | 810 |
| 4,155 | 3,251 | 1,994 |
| 5,199 | 3,644 | 1,501 |
| 2,460 | 1,170 | 602 |
| 4,022 | 1,368 | 302 |
| 2,639 | 436 | 139 |
| 3,956 | 1,485 | 365 |
| 4,540 | 2,448 | 731 |
| 4,108 | 1,700 | 429 |

5. The Seve Nappe Complex of Jamtland,

Journal Of Petrology, 2004, Volume 45, Number 2, Pages 415-437

| 187Re/188Os | 187Re/188Os | 187Re/188Os | 187Re/188Os |
|-------------|-------------|-------------|-------------|
| 34,000 | 4,900 | -4,100 | -11,000 |
| 26,000 | 4,800 | -4,200 | -12,000 |
| 23,000 | 4,600 | -4,600 | -13,000 |
| 19,000 | 4,300 | -5,200 | -14,000 |
| 17,000 | 3,500 | -5,600 | -15,000 |
| 15,000 | 3,200 | -5,700 | -16,000 |
| 13,000 | 2,000 | -6,000 | -17,000 |
| 13,000 | 1,500 | -6,700 | -17,000 |
| 11,000 | 1,400 | -6,800 | -19,000 |
| 9,300 | 1,400 | -6,900 | -20,000 |
| 8,100 | -10 | -7,000 | -20,000 |
| 7,600 | -20 | -8,100 | -21,000 |
| 7,000 | -700 | -8,800 | -22,000 |
| 6,700 | -1,400 | -9,000 | -27,000 |
| 6,500 | -2,300 | -9,000 | -31,000 |
| 6,300 | -3,200 | -9,100 | -32,000 |
| 5,800 | -3,200 | -9,700 | -38,000 |
| 5,800 | -3,400 | -9,800 | -41,000 |
| 5,600 | -3,500 | -10,000 | -58,000 |
| 5,400 | -3,700 | -11,000 | |

6. Sr, Nd, Pb and Os Isotopes,

Journal Of Petrology, 2001, Volume 42, Number 7, Pages 1387-1400

| 87Rb/86Sr | 87Rb/86Sr | 87Rb/86Sr | 87Rb/86Sr |
|-----------|-----------|-----------|-----------|
| 7,834 | 1,181 | 460 | 240 |
| 2,742 | 961 | 393 | 192 |
| 1,334 | 878 | 357 | 96 |
| 1,284 | 851 | 279 | -296 |

7. The Munchberg Massif, Southern Germany,

Earth and Planetary Science Letters, Volume 99, 1990, Pages 230-249

| 87Rb/86Sr | 207Pb/206Pb |
|-----------|-------------|
| 0.200 | 4,954 |
| 0.213 | 4,952 |
| -0.602 | 4,952 |
| 0.278 | 4,954 |
| 0.189 | 4,952 |
| 0.151 | 4,952 |
| 0.270 | 4,953 |
| 0.949 | 4,952 |
| 4.958 | 4,952 |
| 0.260 | 4,953 |
| 0.148 | 4,951 |
| -0.745 | 4,952 |
| -0.302 | 4,953 |
| -0.272 | 4,954 |
| -3.845 | 4,952 |
| -2.455 | 4,954 |
| -16.072 | 4,953 |
| -3.348 | 4,952 |
| -2.088 | |
| -13.882 | |

8. Geochemistry of Hornblende Gabbros,

International Geology Review, 2009, Volume 51, Number 4, Pages 345-373

| 207Pb/206Pb | 206Pb/238U | 207Pb/235U | 208Pb/232Th |
|-------------|------------|------------|-------------|
| 5,014 | 7,297 | 5,648 | 24,397 |
| 5,013 | 7,109 | 5,493 | 24,113 |
| 5,012 | 7,026 | 5,491 | 23,555 |
| 5,012 | 6,638 | 5,491 | 23,438 |
| 5,009 | 6,305 | 5,359 | 22,658 |
| 5,008 | 5,987 | 5,238 | 21,989 |
| 5,007 | 5,922 | 5,237 | 20,621 |

References

1. Lens with Sub-Baltic Shield, *Journal Of Petrology*, 2004, Volume 45, Number 2, Pages 415-437
2. *Geosphere*, 2007, Volume 3, no. 6, p. 683-703,
http://geosphere.gsapubs.org/content/suppl/2009/02/18/4.5.829.DC1/10.1130_GES00166-S1.xls
3. The Peace River shocked M chondrite, *Geochemica Et Cosmochemica Acta*, 1988, Volume 52, Pages 2487 - 2499
4. U-Th-Pb Analysis Of Baddeleyites, <http://www.lpi.usra.edu/meetings/lpsc2011/pdf/1243.pdf>
5. The Seve Nappe Complex of Jamtland, *Journal Of Petrology*, 2004, Volume 45, Number 2, Pages 415-437
6. Sr, Nd, Pb and Os Isotopes, *Journal Of Petrology*, 2001, Volume 42, Number 7, Pages 1387-1400
7. The Munchberg Massif, Southern Germany, *Earth and Planetary Science Letters*, Volume 99, 1990, Pages 230-249
8. Geochemistry of Hornblende Gabbros, *International Geology Review*, 2009, Volume 51, Number 4, Pages 345-373

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