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| Supplementary Table S5 Zircon Lu-Hf isotope compositions for the samples in western segment. | | | | | | | | | | | | |
| Analysis | t (Ma) | 176Yb/177Hf | 2s | 176Lu/177Hf | 2s | 176Hf/177Hf | 2s | eHf(0) | eHf(t) | TDM1 | TDM2 | fLu/Hf |
| ***Rhyolite (D730-9), 14 spots*** | | | | | | | | | | | | |
| D730-9-1 | 343.3 | 0.032371 | 0.000066 | 0.000825 | 0.000004 | 0.282741 | 0.000020 | -1.09 | 6.27 | 720.4 | 946.3 | -0.98 |
| D730-9-2 | 343.3 | 0.030370 | 0.000079 | 0.000809 | 0.000004 | 0.282751 | 0.000023 | -0.73 | 6.64 | 705.8 | 923.3 | -0.98 |
| D730-9-3 | 343.3 | 0.030671 | 0.000208 | 0.000761 | 0.000007 | 0.282805 | 0.000021 | 1.16 | 8.55 | 630.0 | 802.0 | -0.98 |
| D730-9-4 | 343.3 | 0.027225 | 0.000364 | 0.000660 | 0.000006 | 0.282811 | 0.000021 | 1.39 | 8.79 | 618.8 | 785.9 | -0.98 |
| D730-9-5 | 343.3 | 0.031754 | 0.000413 | 0.000700 | 0.000003 | 0.282772 | 0.000022 | -0.01 | 7.38 | 675.3 | 876.0 | -0.98 |
| D730-9-6 | 343.3 | 0.033861 | 0.000281 | 0.000696 | 0.000002 | 0.282813 | 0.000028 | 1.46 | 8.87 | 616.9 | 781.8 | -0.98 |
| D730-9-7 | 343.3 | 0.048751 | 0.000412 | 0.000977 | 0.000013 | 0.282908 | 0.000027 | 4.82 | 12.08 | 487.0 | 574.1 | -0.97 |
| D730-9-8 | 343.3 | 0.038255 | 0.000728 | 0.000728 | 0.000004 | 0.282781 | 0.000024 | 0.33 | 7.78 | 662.3 | 853.0 | -0.98 |
| D730-9-9 | 343.3 | 0.043438 | 0.000590 | 0.000806 | 0.000008 | 0.282816 | 0.000027 | 1.56 | 8.89 | 614.5 | 778.4 | -0.98 |
| D730-9-10 | 343.3 | 0.033561 | 0.000092 | 0.000653 | 0.000002 | 0.282843 | 0.000025 | 2.50 | 9.86 | 574.8 | 716.6 | -0.98 |
| D730-9-11 | 343.3 | 0.064502 | 0.001811 | 0.001554 | 0.000020 | 0.282781 | 0.000022 | 0.32 | 7.62 | 677.2 | 864.2 | -0.95 |
| D730-9-12 | 343.3 | 0.059247 | 0.000952 | 0.001218 | 0.000016 | 0.282962 | 0.000031 | 6.73 | 13.92 | 413.0 | 456.1 | -0.96 |
| D730-9-13 | 343.3 | 0.016564 | 0.000444 | 0.000448 | 0.000011 | 0.282881 | 0.000017 | 3.85 | 11.24 | 518.4 | 628.1 | -0.99 |
| D730-9-14 | 343.3 | 0.025375 | 0.000227 | 0.000622 | 0.000001 | 0.282801 | 0.000018 | 1.02 | 8.50 | 633.0 | 807.3 | -0.98 |
| ***Monzogranite (D731-1), 16 spots*** | | | | | | | | | | | | |
| D731-1-1 | 333.0 | 0.055394 | 0.001175 | 0.001471 | 0.000006 | 0.282759 | 0.000021 | -0.47 | 6.55 | 708.0 | 921.7 | -0.96 |
| D731-1-2 | 333.0 | 0.070716 | 0.001500 | 0.001663 | 0.000012 | 0.282809 | 0.000023 | 1.30 | 7.36 | 639.3 | 836.1 | -0.95 |
| D731-1-3 | 333.0 | 0.066447 | 0.001251 | 0.001796 | 0.000007 | 0.282735 | 0.000024 | -1.31 | 5.70 | 748.5 | 977.9 | -0.95 |
| D731-1-4 | 333.0 | 0.061475 | 0.001354 | 0.001408 | 0.000021 | 0.282691 | 0.000027 | -2.85 | 4.27 | 802.8 | 1069.7 | -0.96 |
| D731-1-5 | 333.0 | 0.063747 | 0.000614 | 0.001454 | 0.000008 | 0.282709 | 0.000024 | -2.23 | 4.73 | 778.9 | 1035.1 | -0.96 |
| D731-1-6 | 333.0 | 0.051959 | 0.000314 | 0.001433 | 0.000020 | 0.282819 | 0.000022 | 1.68 | 8.56 | 620.3 | 788.4 | -0.96 |
| D731-1-7 | 333.0 | 0.048369 | 0.000511 | 0.001224 | 0.000005 | 0.282746 | 0.000024 | -0.93 | 6.15 | 721.8 | 947.4 | -0.96 |
| D731-1-8 | 333.0 | 0.053212 | 0.001054 | 0.001392 | 0.000016 | 0.282742 | 0.000020 | -1.05 | 5.95 | 729.7 | 958.2 | -0.96 |
| D731-1-9 | 333.0 | 0.061888 | 0.001051 | 0.001501 | 0.000017 | 0.282799 | 0.000021 | 0.94 | 7.91 | 651.4 | 833.4 | -0.95 |
| D731-1-10 | 333.0 | 0.054455 | 0.000923 | 0.001151 | 0.000012 | 0.282774 | 0.000026 | 0.06 | 7.11 | 680.7 | 884.6 | -0.97 |
| D731-1-11 | 333.0 | 0.062663 | 0.001131 | 0.001919 | 0.000008 | 0.282730 | 0.000019 | -1.49 | 5.42 | 758.2 | 993.0 | -0.94 |
| D731-1-12 | 333.0 | 0.053356 | 0.000383 | 0.001156 | 0.000005 | 0.282836 | 0.000026 | 2.26 | 7.97 | 592.1 | 781.0 | -0.97 |
| D731-1-13 | 333.0 | 0.040407 | 0.000421 | 0.000956 | 0.000019 | 0.282782 | 0.000023 | 0.36 | 7.43 | 665.1 | 863.4 | -0.97 |
| D731-1-14 | 333.0 | 0.047432 | 0.000778 | 0.001352 | 0.000007 | 0.282731 | 0.000020 | -1.43 | 5.57 | 744.5 | 982.3 | -0.96 |
| D731-1-15 | 333.0 | 0.077054 | 0.000604 | 0.001744 | 0.000015 | 0.282790 | 0.000026 | 0.63 | 7.57 | 668.4 | 856.1 | -0.95 |
| D731-1-16 | 333.0 | 0.066079 | 0.001261 | 0.001481 | 0.000010 | 0.282779 | 0.000024 | 0.23 | 7.26 | 679.5 | 876.8 | -0.96 |
| ***Moyite (D801-6), 5 spots*** | | | | | | | | | | | | |
| D801-6-1 | 344.6 | 0.033306 | 0.000768 | 0.000931 | 0.000012 | 0.282896 | 0.000022 | 4.38 | 11.80 | 504.1 | 597.4 | -0.97 |
| D801-6-2 | 343.6 | 0.029919 | 0.000460 | 0.000921 | 0.000017 | 0.282912 | 0.000018 | 4.94 | 12.28 | 481.3 | 563.6 | -0.97 |
| D801-6-3 | 343.6 | 0.033997 | 0.000437 | 0.000893 | 0.000007 | 0.282836 | 0.000016 | 2.25 | 9.57 | 588.6 | 735.5 | -0.97 |
| D801-6-4 | 343.6 | 0.050501 | 0.000430 | 0.001616 | 0.000056 | 0.282907 | 0.000024 | 4.76 | 11.97 | 497.6 | 584.4 | -0.95 |
| D801-6-5 | 343.6 | 0.057411 | 0.002554 | 0.001242 | 0.000034 | 0.282955 | 0.000021 | 6.46 | 13.71 | 424.2 | 472.0 | -0.96 |
| εHf(t) = 10,000 × ({[(176Hf /177Hf)S − (176Lu / 177H f)S×(eλt − 1) ] / [ (176Hf / 177Hf)CHUR − (176Lu / 177Hf)CHUR×((eλt − 1) ] − 1}.  TDM1 = 1 / λ × ln{1 + [(176Hf / 177Hf)S − (176Hf / 177Hf)DM] / [(176Hf / 177Hf)S − (176Hf / 177Hf)DM].  TDM2 = TDM − (TDM-t) × [(ƒcc − fs) / (ƒcc − ƒDM) ].  ƒLu/Hf = (176Lu / 177Hf)S / (176Lu / 177Hf)CHUR − 1.  where, λ = 1.867 × 10-11 / year−1 ( Söderlund et al., 2004); (176Lu / 177Hf)S and (176Hf / 177Hf)S are the measured values of the samples; (176Lu / 177Hf)CHUR = 0.0332 and (176Hf / 177Hf)CHUR = 0.282772 (Blichert-Toft and Albarède, 1997); (176Lu / 177Hf)DM = 0.0384 and (176Hf / 177Hf)DM = 0.28325 (Griffin et al., 2002); (176Lu / 177Hf)mean crust = 0.015; ƒcc = [(176Lu / 177Hf)mean crust / (176Lu / 177Hf)CHUR] – 1; ƒs = ƒLu/Hf ; ƒDM = [(176Lu / 177Hf)DM / (176Lu / 177Hf)CHUR] – 1; t = crystallization time of zircon. | | | | | | | | | | | | |

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