

GSA Data Repository Item 2016095

Tucker, R.T., Roberts, E.M., Henderson, R.A., and Kemp, A.I.S., 2016, Large igneous province or long-lived magmatic arc along the eastern margin of Australia during the Cretaceous? Insights from the sedimentary record: GSA Bulletin, doi:10.1130/B31337.1.

DATA REPOSITORY TABLES

Tables DR1A–1J. U-Pb LA-ICPMS results for all detrital zircon samples, including isotope and concentration data. Th (in ppm) is Thorium concentration measured in parts per million; U (in ppm) is Uranium concentration in parts per million. Both $\text{Pb}^{207}/\text{U}^{235}$ and error calculated at $\pm 1\sigma$ and $\text{Pb}^{206}/\text{U}^{238}$ and error calculated at $\pm 1\sigma$ were used to calculate the error correction (Error Corr.). The ratio values for $\text{Pb}^{206}/\text{U}^{238}$, $\text{Pb}^{207}/\text{Pb}^{206}$, and $\text{Pb}^{207}/\text{Pb}^{206}$ with all error calculated at $\pm 1\sigma$. For grains younger than 1 Ga, the preferred age is based on $\text{Pb}^{206}/\text{U}^{238}$ at $\pm 1\sigma$ error, whereas for grains older 1 Ga the preferred age is based on $\text{Pb}^{207}/\text{Pb}^{206}$ at $\pm 1\sigma$ error. Age is calculated by error in standard reproducibility and U concentration and U/Th ratio are calculated against NIST 612 and are within ~30% error.

Table DR2. Laser ablation Lu-Hf data for selected detrital zircons.

Table DR3. Laser ablation Lu-Hf data for reference zircons.