

Jurassic Arc: Reconstructing the lost world of eastern Gondwana

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SUPPLEMENTARY PAPERS

Geology (2021)

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Supplementary file A. List of samples used for U-Pb geochronology in this study (PDF).

Supplementary file B. U-Pb geochronological datasets (Excel file).

Supplementary file C. List of samples used for Lu-Hf analysis in this study (PDF).

Supplementary file D. Lu-Hf isotope analytical datasets (Excel file).

Supplementary file E. Analytical setup and procedures used (PDF).

Supplementary file F. Crustal addition rate calculations (PDF).

Supplementary file G. Supplementary Figure 1. Plotted ϵHf data with isotopic evolution curves (PDF).

SUPPLEMENTARY DATA (# corresponds to number of analyses accepted and used in this study)

| Sample Name | # | Coordinates (UTM) | | Sample Type | | Well Name | Depth (m) | Basin | Formation | Reference |
|-----------------|----|-------------------|---------------|-------------|---------|------------------|-----------|-------------------|---------------------------|----------------------|
| | | Lat. | Long. | Core | Outcrop | | | | | |
| DINO_TRACK | 16 | 20.143116° S | 143.640990° E | | X | - | - | Eromanga Basin | Blantyre Sandstone | |
| 081018-6 | 13 | 14.893964° S | 143.974568° E | X | | Lakefield 1 | 389.5 | Laura Basin | Gilbert River Formation | |
| 101018-2 | 68 | 19.295442° S | 140.381436° E | X | | Dobbyn 1 | 35.3 | Carpentaria Basin | Normanton Formation | |
| 101018-4 | 43 | 14.535470° S | 143.862274° E | X | | Ebagoola 1 | 339.5 | Laura Basin | Gilbert River Formation | |
| RP1-DZ-UGR | 23 | 15.656832° S | 141.856686° E | X | | Rutland Plains 1 | 1005.5 | Carpentaria Basin | Gilbert River Formation | Foley et al. (2021) |
| W1-DZ-UGR | 16 | 12.785066° S | 142.404824° E | X | | Weipa 1 | 429.6 | Carpentaria Basin | Gilbert River Formation | Foley et al. (2021) |
| 101018-34 | 32 | 17.715162° S | 141.034461° E | X | | Normanton 1 | 94.8 | Carpentaria Basin | Normanton Formation | |
| 081018-12 | 53 | 14.737267° S | 143.919729° E | X | | Breeza Plains 1 | 495.0 | Laura Basin | Dalrymple Sandstone | |
| Top Middle Loth | 50 | 19.742728° S | 143.630618° E | | X | - | - | Carpentaria Basin | Loth Formation | Foley et al. (2020) |
| MV6 | 68 | 25.925457° S | 152.432065° E | | X | - | - | Nambour Basin | Tiaro Coal Measures | |
| MV17 | 29 | 25.559521° S | 152.598749° E | | X | - | - | Maryborough Basin | Grahams Creek Formation | |
| MV16 | 78 | 25.551491° S | 152.509175° E | | X | - | - | Maryborough Basin | Grahams Creek Formation | |
| MV1 | 21 | 25.740955° S | 152.468957° E | | X | - | - | Nambour Basin | Myrtle Creek Sandstone | |
| PGF01 | 17 | 20.335259° S | 144.469013° E | | X | - | - | Galilee Basin | Porcupine Gorge Formation | |
| H7B55 | 30 | 20.950001° S | 144.183329° E | X | | Hughenden 7 | 184.0 | Eromanga Basin | Gilbert River Formation | |
| H7B66 | 11 | 20.950001° S | 144.183329° E | X | | Hughenden 7 | 230.0 | Eromanga Basin | Injune Creek Group | |
| H7B59 | 11 | 20.950001° S | 144.183329° E | X | | Hughenden 7 | 198.0 | Eromanga Basin | Hooray Sandstone | |
| McKinlay-02 | 4 | 21.592507° S | 142.259717° E | X | | McKinlay-1 | 9.3 | Eromanga Basin | Winton Formation | Tucker et al. (2016) |
| Longmac1 | 7 | 23.111931° S | 144.599555° E | X | | Longreach 1 | 27.0 | Eromanga Basin | Mackunda Formation | Tucker et al. (2016) |

| | | | | | | | | | | |
|-------------|----|-----------------|------------------|---|---|------------|--------|----------------|-----------------------|-----------------------|
| ISIS | 3 | 24.259307° S | 144.441483° E | | X | - | - | Eromanga Basin | Winton Formation | Tucker et al. (2016) |
| ERO1 | 16 | 26.614710° S | 143.880111° E | X | | Eromanga 1 | 20.0 | Eromanga Basin | Winton Formation | Tucker et al. (2016) |
| Maneroo-331 | 5 | 23.385865° S | 144.467891° E | X | | Maneroo 1 | 343.0 | Eromanga Basin | Mackunda Formation | Tucker et al. (2016) |
| Blackall-02 | 8 | 24.162590° S | 144.223606° E | X | | Blackall 2 | 27.0 | Eromanga Basin | Winton Formation | Tucker et al. (2016) |
| BBD4 | 6 | 22.514825° S | 143.038857° E | | X | - | - | Eromanga Basin | Winton Formation | Tucker et al. (2016) |
| HadesHill | 13 | 23.016288° S | 142.411865° E | | X | - | - | Eromanga Basin | Winton Formation | Tucker et al. (2016) |
| McKinlay-16 | 14 | 21.592507° S | 142.259717° E | X | | McKinlay-1 | 54.0 | Eromanga Basin | Winton Formation | Tucker et al. (2016) |
| QMF7882 | 2 | 24.470004° S | 150.699994° E | | X | - | - | Surat Basin | Evergreen Formation | Todd et al. (2019) |
| QMF1659 | 8 | 24.626003° S | 149.742999° E | | X | - | - | Surat Basin | Walloon Coal Measures | Todd et al. (2019) |
| MMD_19_001 | 9 | 23.629325° S | 50.370667° E | | X | - | - | Surat Basin | Razorback Beds | |
| 2550367 | 6 | 28.044004° S | 141.961701° E | X | | Zeus 7 | 1667.5 | Eromanga Basin | Birkhead Formation | Wainman et al. (2018) |
| 2550364 | 9 | 28.044004° S | 141.961701° E | X | | Zeus 7 | 1659.3 | Eromanga Basin | Birkhead Formation | Wainman et al. (2018) |

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