

File:YGS CHR 03 POST TAB 01.jpg

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| Sample number | Map ref., depth (m) | Stratigraphical details ¹ | Strat. age (Ma) | ρ_D^2 | ρ_s^2 | ρ_i^2 | Zeta | Pooled/central fission-track age ³ (Ma) | P(χ^2) (%) (no. of grains) | Mean track length ⁴ (μm) | Standard deviation (μm) |
|-------------------|---------------------|--------------------------------------|-----------------|--|-----------------|-----------------|---------------|--|-----------------------------------|--|--------------------------------------|
| | | | | (10 ⁶ tracks /cm ²) | | | | | | | |
| Southern Pennines | | | | | | | | | | | |
| RD41-46 | SK 125833 outcrop | Mam Tor Sandstone, Kinderscoutian | 321–323 | 1.084 (1717) | 1.909 (662) | 2.405 (834) | 385.5 ±4.3 | 157.5±13.5 | 1.6 (9) | 12.52±0.20 (69) | 1.68 |
| RD41-47 | SK 129836 outcrop | Mam Tor Sandstone, Kinderscoutian | 321–323 | 1.082 (1717) | 3.498 (1455) | 3.403 (1415) | 385.5 ±4.3 | 210.9±9.7 | 12.2 (20) | 11.93±0.15 (200) | 2.07 |
| 47/25-1 | | | | | | | | | | | |
| GC290-1 | 625–677 | Lwr Cretaceous | 144–97.5 | 1.288 (2019) | 1.024 (346) | 1.269 (429) | 348.8 ±5.2 | 178.0±19.0 | 1 (20) | 12.74±0.20 (16) | 0.80 |
| GC290-2 | 923–966 | Middle Jurassic | 188–162 | 1.293 (2019) | 1.324 (95) | 1.589 (114) | 348.8 ±5.2 | 185.2±26.2 | 99 (5) | 10.99±0.34 (8) | 0.95 |
| GC290-3 | 1204–1311 | Middle–Upper Triassic | 243–213 | 1.298 (2019) | 0.486 (15) | 0.389 (12) | 348.8 ±5.2 | 276.9±107.5 | 100 (1) | – (0) | – |
| GC290-5 | 1570–1737 | Lower Triassic | 258–243 | 1.303 (2019) | 0.907 (434) | 3.426 (1639) | 348.8 ±5.2 | 71.5±10.9 | <1 (22) | 10.84±0.53 (15) | 2.05 |
| GC290-6 | 2288–2304 | Lower Permian | 286–268 | 1.312 (2019) | 0.593 (141) | 2.976 (708) | 348.8 ±5.2 | 48.0±8.9 | <1 (10) | 12.30±0.57 (3) | 0.99 |

1. All numerical values for stratigraphical ages assigned following Harland et al. (1989).

2. ρ_s = spontaneous track density. ρ_i = induced track density. ρ_D = glass dosimeter track density. Numbers in parentheses show the number of tracks counted. Numbers in parentheses show the number of tracks counted in determining all track densities.

3. Central age (Galbraith & Laslett 1993), used for samples containing a significant spread in single grain ages ($P(\chi^2) < 5\%$). All ages were calculated using the zeta calibration approach of Hurford & Green (1983), using a zeta of 385.5±4.3 (Analyst: Paul Green) or 348.8±5.2 (analyst C. O'Brien). All errors quoted at ±1 σ . All analytical details are as described by Green et al. (2001), with the exception that some thermal neutron irradiations show a significant flux gradient, in which case the appropriate value of ρ_D was determined by linear interpolation through the stack of grain mounts.

4. Numbers in parentheses show the number of track lengths measured.

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Summary

| | |
|--------------------|---|
| description | English: Table 1 Sample details and apatite fission-track age data. From: Carboniferous hydrocarbon resources: the southern North Sea and surrounding onshore areas , edited by J. D. Collinson, D. J. Evans, D. W. Holliday, N. S. Jones. Published as volume 7 in the Occasional Publications series of the Yorkshire Geological Society , Copyright Yorkshire Geological Society 2005. |
| source | Yorkshire Geological Society |
| author | Paul F. Green |

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