

Sample ID	Surface erosion rate ^{a,b} (m Myr ⁻¹)	Apparent burial signal ^{c,d} (kyr)	Surface erosion rate accounted for burial ^{c,d} (m Myr ⁻¹)
FINKE catchment			
PIO	7.46 ± 0.25	266 ⁺¹⁵² ₋₈₈	6.45 ^{+0.80} _{-0.60}
FIN1	8.41 ± 0.32	340 ⁺¹⁰⁰ ₋₁₁₃	7.02 ^{+1.33} _{-0.53}
FIN2	7.14 ± 0.23	607 ⁺¹⁵² ₋₉₁	5.12 ^{+0.60} _{-0.50}
B123s	10.96 ± 1.19	—	—
ELL	7.69 ± 0.31	465 ⁺¹⁵⁴ ₋₁₀₃	5.97 ^{+0.91} _{-0.65}
FIN3	6.31 ± 0.21	475 ⁺¹⁵² ₋₉₄	4.85 ^{+0.58} _{-0.47}
PAL	5.47 ± 0.17	399 ⁺¹³⁹ ₋₉₆	4.37 ^{+0.54} _{-0.37}
FIN4	5.54 ± 0.18	566 ⁺¹³⁵ ₋₉₅	4.03 ^{+0.51} _{-0.39}
HUG	5.27 ± 0.17	685 ⁺¹⁴⁹ ₋₉₄	3.59 ^{+0.45} _{-0.34}
FIN5	5.45 ± 0.17	743 ⁺¹³⁹ ₋₈₉	3.59 ^{+0.40} _{-0.32}
S05/04	5.52 ± 0.18	505 ⁺²⁰⁰ ₋₁₂₆	4.18 ^{+0.64} _{-0.48}
MACUMBA catchment			
COO	1.28 ± 0.04	568 ⁺¹⁷⁰ ₋₁₀₁	0.87 ^{+0.13} _{-0.11}
ALB3	1.59 ± 0.05	471 ⁺¹⁵³ ₋₁₀₁	1.17 ^{+0.18} _{-0.12}
ALB2	1.66 ± 0.05	638 ⁺¹⁴⁰ ₋₈₆	1.10 ^{+0.14} _{-0.11}
ALB1	1.95 ± 0.06	625 ⁺¹⁸⁵ ₋₁₀₇	1.32 ^{+0.18} _{-0.15}
MAC	1.42 ± 0.04	1115 ⁺²⁴² ₋₁₂₆	0.66 ^{+0.13} _{-0.11}
NEALES catchment			
PEA-BR2	4.41 ± 0.15	28 ⁺¹¹⁵ ₋₁₄	4.34 ^{+0.20} _{-0.37}
PEA-BR4	1.23 ± 0.04	0 ⁺⁶⁹ ₋₀	1.22 ^{+0.05} _{-0.07}
PEA1	0.60 ± 0.02	532 ⁺¹⁴⁴ ₋₈₅	0.38 ^{+0.06} _{-0.05}
PEA2	0.33 ± 0.02	295 ⁺¹¹⁷ ₋₈₂	0.24 ^{+0.05} _{-0.04}
PEA4	0.31 ± 0.01	454 ⁺¹¹⁶ ₋₇₆	0.18 ^{+0.04} _{-0.03}
PEA5	0.50 ± 0.02	592 ⁺¹⁵⁰ ₋₈₄	0.28 ^{+0.05} _{-0.05}
NEA1	2.07 ± 0.07	719 ⁺²⁴⁰ ₋₁₃₇	1.32 ^{+0.24} _{-0.19}
PEA6	0.52 ± 0.02	650 ⁺¹⁴³ ₋₈₀	0.28 ^{+0.05} _{-0.04}
NEA2	3.55 ± 0.10	526 ⁺²⁰³ ₋₁₂₇	2.61 ^{+0.40} _{-0.31}
NIL	6.11 ± 0.26	30 ⁺⁵ ₋₁₀	6.16 ^{+0.31} _{-0.21}
PEA7	1.46 ± 0.05	758 ⁺¹⁵⁹ ₋₉₄	0.88 ^{+0.12} _{-0.10}
NEA3	1.79 ± 0.05	934 ⁺¹⁶¹ ₋₈₉	0.98 ^{+0.12} _{-0.11}
NEA4	9.07 ± 0.25	188 ⁺¹²³ ₋₆₃	8.13 ^{+0.82} _{-0.62}
PEA8	3.04 ± 0.09	542 ⁺¹³⁷ ₋₈₉	2.20 ^{+0.26} _{-0.20}
NEA5	3.11 ± 0.09	633 ⁺¹³⁴ ₋₈₇	2.13 ^{+0.24} _{-0.19}