Ancient TL

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B. PACHACAMAC (Department of Lima, 12°14'S, 76°52'W, 29 km from Lima) Peru.

The sample was collected by L. Langouet and E. López Carranza. Description of the site is given by Engel (1976).

UNI-TL-3 Inca culture (?) 500 (±30, ±60), A.D. 1480

Pottery: Pach-1, Depth 0.30 m.

Comments- Natural dose: 380 rads (I = 50), δQ = 7%, plateau ≃ 80C. Annual dose: 0.75 rads/yr, α_1/α_0 = 1.0, sherd water ≃0, a = 0.15, δa = 20%.

C. HUARMEY (Department of Ancash, 10°03'S, 78°09'W, on the coast) Peru.

Buried fired stones were collected by D. Bonavia from the Universidad Cayetano Heredia, Lima. Datation of some of these stones are reported by j-F-Rouanet (1976).

UNI-TL-4 Chavín de Huantar (?) 2070 (±120, ±210), 90 B.C.

Fired stone: PV 35-1, B-10. Depth 1.50 m.

Comments- Natural dose: 1370 rads (I = 190), δQ = 5%, Plateau ± 70C. Annual dose: 0.66 rads/yr, α_1/α_0 = 1.0, sherd water ≃ 0, a = 0.15, δa = 20%.

D. MARCAVALLE (Department of Cuzco, 13°31'S, 71°57'W, on a mountain valley) Peru.

The sherd was collected by L. Barreda from the Universidad Nacional San Antonio Abad del Cuzco. Datations on this site are given by K. M. de Chaves (1977).

UNI-TL-5 Chanapata sherd (?) 2380 (±150, ±170), 400 B.C.

Pottery: Marc-1. Depth 1.50 m.

Comments- Natural dose: 840 rads (I = 10), δQ = 9%, plateau ≃ 70C. Annual dose: 0.35 rad/yr using $(\alpha_0+\alpha_1))/2$, α_1/α_0 = 1.07, sherd wt. sat/dry = 1.0, sherd burial water = saturation, a= 0.17, δ = 9%.

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