

NOTE

¹⁴C DATING OF AN ISRAELITE BIBLICAL SITE AT KUNTILLET AJRUD (HORVAT TEMAN): CORRECTION, EXTENSION AND IMPROVED AGE ESTIMATE

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We have found three printing errors in Table 2 of our paper ¹⁴C Dating of an Israelite Biblical Site at Kuntillet Ajrud (Horvat Teman) (Meshel, Carmi and Segal 1995). The errors are in the ¹⁴C ages of samples 1830, 1831 and 1832. The corrected table with three additional dates is given below. The three additional samples are as follows:

RT 2095: A bunch of human hairs from Locus 41, Basket 352

RT 2096: Fine woven fabric from Locus 104, Baskets 30–31

RT 2097: Straw from Locus 256, Basket 1385.

The hair sample is evidently out of context. On the ¹⁴C ages of all the other samples, we applied the bootstrap technique (Aczel 1995) to improve the age estimate of the site. The estimate after 1000 bootstraps is 2549–2607 yr BP at a confidence level of 68%, and the corresponding calibration is 801–770 BC at 100% confidence (Stuiver and Reimer 1993). By applying the bootstrap technique we succeeded in reducing the calibrated age range from 70 to 31 yr.

TABLE 1. ¹⁴C Dates from Kuntillet Ajrud

| Sample (RT-no.) | Δ ¹⁴ C (‰) | δ ¹³ C (‰) | ¹⁴ C age (yr BP) |
|--------------------|--------------------------|--------------------------|--------------------------------|
| 1826 | -250.6 ± 3.7 | -23.2 | 2275 ± 40 |
| 1827 | -283.4 ± 4.2 | -20.9 | 2635 ± 45 |
| 1827 | -290.0 ± 5.0 | -20.9 | 2710 ± 60 |
| 1828 | -263.3 ± 4.0 | -21* | 2410 ± 45 |
| 1829 | -284.4 ± 3.9 | -21.4 | 2645 ± 45 |
| 1829 | -285.5 ± 5.0 | -21.4 | 2660 ± 50 |
| 1830 | -264.5 ± 6.4 | -21.02 | 2425 ± 70 |
| 1831 | -276.2 ± 4.0 | -21.42 | 2555 ± 45 |
| 1832 | -289.0 ± 4.3 | -21.52 | 2695 ± 50 |
| 1833 | -280.3 ± 4.2 | -21.8 | 2600 ± 45 |
| 1834 | -271.9 ± 5.3 | -21.0 | 2505 ± 60 |
| 1835 | -283.8 ± 4.3 | -22.4 | 2640 ± 50 |
| 1836 | -269.5 ± 4.4 | -17.3 | 2480 ± 50 |
| 2094 | -285.8 ± 4.2 | -22.8 | 2660 ± 45 |
| 2095 | -24.6 ± 7.9 | -15.23 | 155 ± 65 |
| 2096 | -271.0 ± 3.6 | -21.4 | 2495 ± 40 |
| 2097 | -297.0 ± 4.9 | -21 | 2785 ± 55 |

*Estimated

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