## A) Plank E 1 for HAR 512

1 Oct. 1973

At Fortress House. Section (wet) cut (with Mr. Cross) from

Plank East 1, about 9 ft long and 8½ to 10½ ins wide.

This section was 10½ ins long and some 2 ins deep.

At Keble Road, Oxford. Tree-ring examination showed that the plank was NOT quarter-sawn, but had been cut 'through and through'.

A piece of heartwood (weight, wet, 34 gm) was cut near the centre of the bottom edge and passed to AERE Harwell on 8 Oct.1973 for C 14 analysis. The sample covered about is annual growth rings and the growth allowance was estimated to be 65 ± 10 years. Wt. of benzene produced at AERE 4.56 grams.

## B) Plank E 2 for HAR 513

- 8 Oct. 1973 A section was cut at Fortress House from the wet plank. It was faster grown than Plank E 1, (average width of rings, 2 mm).

  At Oxford, it was allowed to dry out slowly.
- 19 June 1974 Piece (dry weight 4 oz) sent to AERE, Harwell for C 14 analysis.

  Growth allowance 40 ± 10 years. Wt. of benzene produced at

  AERE 4.48 grams.

## C) Treatment of Radiocarbon Results

These require correction for the half-life of C 14 (5730, not 5568 y), calibration for secular C 14 variations together with adjustment for the growth allowance.

"Ack"			Age late 1	Aake	
HAR	Radiocarbon Age		After Calibration	Adjusted for	
	As Given	to 5730		Growth Allowance	Mean
512	755 ad	720 ± 63	780 ± 70 A.D.	845 ± 70 A.D.	830 ± 50 A.D.
513	750 ad	715 ± 70	775 ± 75 A.D.	815 ± 75 A.D.	0)0 = )0 a, 2,

No

Calibration is by the tables of P. Damon (Lower Hutt Radiocarbon Conference, By the MASCA tables or by Switsur's table the mean date New Zealand, 1972). the same The value of the term is important. would be within ten years. the mean date of this well is identical with that of North Elmham (Current Archaeology No. 36, Jan. 1973) the term is larger, partly because the counting uncertainty is higher, partly because there were only two (rather than four) samples. The agreement between the sample left wet (for HAR 512) and that dried out (HAR 513) is good.

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6 May 1975

Consulta...
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Hhipola
Ox 14

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