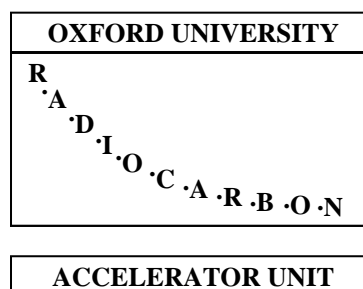


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Thursday, 28 July 2005

Our Ref: P16812-24

Dr R. Housley,  
Department of Archaeology,  
University of Glasgow,  
Gregory Building,  
Lilybank Gardens,  
Glasgow G12 8QQ

Dear Rupert,

A list of the status of all samples submitted by you as part of this EFCHED project is appended to this letter. As you know, we had a considerable difficulty with the samples, particularly the bones, and the low levels of collagen preservation. I hope the attached summary helps.

**Kabazi V, Western Crimea, 44:50.228N 34:01.979W, Ukraine**

<b>OxA-14726</b>	EFD4C436, charcoal, Indeterminate	d13C=-22.8	<b>38780 ± 360</b>
<b>OxA-X-2134-45</b>	EFD4C420, charred bone, Indeterminate,	d13C=-24.4	<b>2.1 ± 0.1%mod</b> <b>(30980 ± 220 BP)</b>

This charred bone was pretreated as for charcoal or burnt organic remains and during the sodium hydroxide rinse the entire sample became soluble. This, therefore, is the humic acid fraction of the sample as submitted rather than being an insoluble pyrolysed bone collagen residue. We have given it an OxA-X number rather than an OxA number owing to this. We felt it might be useful as a minimum age.

**Malaya Vorontsovskaya, 43:37.765N 39:54.738E, Russia**

OxA-14725 EFD4C097, bone, ?Ursus sp./Capra caucasica, d13C=-19.7 43400 ± 1500

This sample produced 10.9 mg of ultrafiltered gelatin from a starting weight of 1080 g, so approximately 1% wt. Collagen and therefore right on the margins of our current threshold for acceptance. The CN ratio was 3.3.

**Navalishenskaya, Sochi region, 43:33.188N 39:55.857E, Russia**

OxA-14762 EFD4C071, charcoal, d13C=-24.4 50000 ± 1200

The dates are uncalibrated in radiocarbon years BP (Before Present - AD 1950) using the half life of 5568 years. Isotopic fractionation has been corrected for using the measured  $\delta^{13}\text{C}$  values quoted (to  $\pm 0.3$  per mil relative to VPDB). For details of the chemical pretreatment, target preparation and AMS measurement see Radiocarbon **46** (1) 17-24, **46** (1): 155-63, and *Archaeometry* **44** (3): 1-149.

I am sorry I can't be the bearer of better news Rupert.

As usual, we would welcome any comments for the next Datelist.

All the best for now,

Tom Higham  
Oxford Radiocarbon Accelerator Unit