

Oxford
Radiocarbon
Accelerator Unit
Research Laboratory for Archaeology
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P16817

OxA- none

failed – low collagen

$\delta^{13}\text{C}$ = none

Acknowledged

QAP 01/03 Issue 2 13/12/1999

SAMPLE SUBMISSION FORM

Please provide as much information as possible for each sample submitted. It will greatly help us in publishing dates rapidly if we have the full information required for publication.

If you are submitting a series of samples, there is no need to write in repeat information for each one, but please do not overlook specific stratigraphic details (pages 2 & 3).

Suggested name for sample series: EFCHED North East Black Sea Project

Your reference no: EFD4C153

Name and location of site: Kepshinskaya, Sochi region, Krasnodar district

Country: Russia

Latitude: 43° 36.750' N

Longitude: 40° 02.913'E

(Greenwich meridian)

Grid reference (specify grid):

Type of material: bone

Any specific identification (please indicate as precisely as possible): roe deer

Family:

Genus: *Capreolus*

Species: *capreolus*

For bone, type (e.g. femur): metapodial

Collector's name: R. A. Housley

Date of excavation: 15 July 2004

Sender's name: Dr R A Housley

Sender's signature:

Address:

Department of Archaeology, University of Glasgow, Gregory Building, Lilybank Gardens, Glasgow G12 8QQ

Tel: 0141 330 6873

email:

r.housley@archaeology.gla.ac.uk

Submission date: April 2005

Is the sample primarily:

archaeological

geological

other

Was the sample	(a)	sealed in a recognisable horizon	<input type="checkbox"/>
	(b)	sealed in a localised feature, e.g. grave or pit	<input type="checkbox"/>
	(c)	other	<input type="checkbox"/>
Is this information known	(a)	beyond reasonable doubt	<input type="checkbox"/>
	(b)	with some possible doubt	<input type="checkbox"/>
	(c)	with major doubt	<input type="checkbox"/>

Certainty of Association

(please tick one box)

Full certainty: the sample came from the artefact itself, e.g. wagon wheel, bone pommel of dagger	<input type="checkbox"/>
High probability: there is a direct functional relationship between the sample and archaeological finds, e.g. coffin dates finds in grave, carbonised grain in rubbish pit dates sherds, charcoal dates urn	<input type="checkbox"/>
Probability: the functional relationship is not demonstrable but the quantity of organic material and size of fragments argue in favour or it, e.g. charcoal concentration in a rubbish pit or occupation layer	<input type="checkbox"/>
Reasonable possibility: as above, but the fragments are small and scattered, e.g. 'dark earth' in an occupation layer, charcoal fragments in a grave	<input type="checkbox"/>

Sample age in relation to burial / discard (please tick one box)

Samples are generally **older** than their contexts:

The difference in date is so small as to be negligible (less than 20 years); e.g. twigs, grain, leather, bone, outermost tree rings.	<input type="checkbox"/>
The time difference can amount to several decades (over 20, less than 100 years), e.g. charcoal from short-lived wood species, outermost rings from long-lived wood species, objects, which might have a long period of use.	<input type="checkbox"/>
The time difference may amount to centuries, e.g. charcoal from long-lived wood species possibly subject to re-use.	<input type="checkbox"/>
The nature of the dated organic material is not precisely known, e.g. samples consisting of 'dark earth', 'ash', 'soil'.	<input type="checkbox"/>

Note: the sections above drawn from: Waterbolk, H.T. (1971) *Proc. Prehist. Soc.* 37(2), 15-33

Named stages

Local archaeological name, e.g. Maglemosian: None

General archaeological name, e.g. Mesolithic: Mousterian / Middle Palaeolithic

Local geological unit, e.g. Larmudiac Beds: NA

General geological name, e.g. Late Glacial: Late Pleistocene – mostly likely OIS 3

Stratigraphic and environmental details: (if none, write 'none')

Please give details of sample locations (including detailed site drawings on a separate sheet), describing horizons and other features relevant to sample position and condition.

Please mention possible contamination, rootlets, intrusions, disturbances, humic acids, carbonates, calcareous or volcanic environment, nearness to water table, nearness to surface, etc.

Sample possibly comes from layer 3, but the precise position in this layer is unclear. *Capreolus capreolus* has only been reported as present in layer 1 of this site, which also includes pottery. The site has an extremely small typical Mousterian Middle Palaeolithic industry – 30 pieces including one Mousterian and 2 Levallois points – which all comes from a single horizon, layer 3. The lower part of layer 3 is associated with an exclusively coniferous pollen assemblage, whilst the upper part of layer 3 includes about 14% deciduous AP. The top of layer 3 has been truncated by an erosional event.

The area is Carboniferous limestone and so the deposits are highly calcareous.

Given the uncertainty of this sample, it is probably best not dated.

Optional checklist:

Sector:

layer, sub-layer: sample is reputed to come from layer 3 but this species has only been reported in layer 1 and so some doubt must be attached to this contextual attribution

feature: bone found during section cleaning

phase of site: reputedly Mousterian if the bone is from layer 3, otherwise could be late Glacial or Holocene

Sender's comment on submission:

(i.e. comment on what date is intended to demonstrate, designed to hold good regardless of specific results)

Relationship with the two OSL samples from layer 3 is unclear. This sample is best omitted from the dating programme.

Sample collection and treatment

How was the sample collected ? Found during cleaning of a vertical section
(surface, trench, section, etc.)

How has it been stored ? Polythene bag
(nature of container, etc.)

Have preservatives, fungicides, etc., been used ? No

If so, please give details of any chemical treatments, identifying chemicals used.
Not applicable

Was sample wet or dry when collected ? Damp

If wet, how was it dried ? Air dried

Can the entire sample be used for dating ? Yes

Has this or a related sample also been sent to another laboratory ? OSL samples are with SUERC

If so, please give Laboratory and date numbers

SUERC samples EFD4L121 – EFD4L122, no lab or date numbers as the samples are currently undergoing OSL analysis

No other dating analyses known to date

Relevant publications

(In format: Author, initials, year, title, **Journal** (Publisher), volume, pages)

Liubin, V.P., 1989, The Palaeolithic of the Caucasus (in Russian), in *Paleolit Kavkaza I Severnoi Azii* (ed. P.I. Boriskovskii), 7-142, Leningrad: Nauka.