Procurement of Raw Material for Lithic Artifacts in the Prehistory of Middle Dalmatia

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Supply of Raw Material for Prehistoric Lithic Industries in Middle Dalmatia
Hungarian – Croatian archaeometrical bilateral collaboration project
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The Indicative Value of Artifacts with Pebble Cortex in the Research of Provenance of Raw Material for the Lithic Artifact in the Prehistoric Lithic Industries in Croatia.

Introduction
Part I-IV

lithic artifacts with pebble cortex

Vela Cave, island of Korčula and Kopačina Cave, island of Brač

island of Solta

Hvar, Sobraj

Supetar, island of Brač

Cetina river
**Kopačine Cave**

island of Brač

**nodular chert and chert pebble**

- chert nodule
- spherical nodule
- irregular chert nodule
- nodular chert nucleus
- nodular cortex
- nodular pebble

Harmignies
Belgium
irregular chert nodule

spherical nodule and weathering process
concretions of chert in limestone boulder
process of weathering

Vela Luka
Stračinica
island of Korčula

fresh chert nodule

nodular nucelus

Vela Luka
Stračinica
island of Korčula

nodular cortex

nodular nucleus

nodular cortex

nodular nucleus
crescentic impact marks
crush marks

cro.
praline

germ.
Schlagnarben
Rindenvernarbung

mechanical properties
and abrasion of chert

Lekey 1953
crush marks on the cortex of radiolarian chert pebble model for interpretation of artifacts with pebble cortex

model of transgression sediment
model of fluvial transport
model of glacial-fluvial transport
model of marine abrasion

"model" of building gravel
model of transgression sediment

Sudrac
location 027
genesis and erosion of chert

residuum with chert-pebbles

chert-nodules in situ

Harmignies
Belgium

eluvial chert pebbles

Harmignies
Belgium
model of transgression- sediment

island of Sušac
location 027
chert pebbles from the transgression-sediment on the island of Sušac

island of Sušac
siliceous limestone pebble
Chert pebbles from the transgression-sediment

Transgression-sediment petrography of pebbles
transgression - sediment petrography of pebbles

island of Sušac
radiolarian chert pebble
island of Sušac
nodular chert artifacts

patina on the nodular cortex

patina on the nucleus of chert nodule

Craquer

island of Sušac
Mančina Cove
nodular pebble
pebbles and nodular form

island of Sudac

pebbles and nodular form

Herzogenrath
North Rhine - Westphalia
Germany
artifacts and raw material

bad rock pebble siliceous limestone

analogy of dimension

nodular chert pebbles siliceous limestone pebbles

island of Sudac
nodular chert pebbles

island of Vis
Issa Gradina
cortex of technological nucleus of chert pebble

Island of Brač
Rat near Ložišća
Supetar

artifact
siliceous limestone

Kopadine Cave
island of Brač
island of Hvar
arch. site Divjeni doći
Sućuraj

transgressive sediments and arhaeological finds in Middle Dalmatia
model of fluvial transport

Neretva river
Cavtat

Vela Cave
island of Korčula
artifact

Vela Cave
Korcula

artifact with pebble cortex

Vela Cave
island of Korcula
artifact with pebble cortex
island of Korcula

artifact with pebble cortex
Kopacine Cave
island of Brac

MAG = 200 X
EHT = 20.00 kV
Detector = OBSD
Date: 10 Jul 2009
Neretva river terrace

Čeljevo nodular chert

Radiolarite bedded chert

Lydite

Nodular chert

Berried chert

Neretva river radiolarian chert pebbles
Bapska
radiolarian artifacts
with pebble cortex

model of glacial-fluvial transport

Zala Cave near Tounj

Bistrac brook
Kupa river
Selce
Karlovac

model of glacial-fluvial transport

Zala Cave
Kupa river
model of glacial-fluvial transport

Zala Cave
Kupa river

model of glacial-fluvial transport

Zala Cave
Kupa river
model of glacial-fluvial transport

Zala Cave
Kupa river

Kupa river
Selce
Karlovac
Gorski kotar

Kupa
Čabranka
Kupica

Kupa riverhead

Kupa
Ozalj
Ozalj cemetery

Kupa river
Selce
Karlovac

radiolarian pabbles

KU17
KU15
KU30
KU4
radiolarian pebble

Kupa Selce near Karlovac

Ozalj castle
model of marine abrasion

Budva
Monte Negro

bedded chert

Mola Palagruza
Cove of Medvidina
Budva zone
Monte Negro

Sv. Stefan

radiolarian chert.

Cove of Kremenjača
Vela Luka
island of Korčula
Bay of Vela luka

Cove of Perna private
Cove of Kremenjača

island of Čiovo
Bay of Salduš
island of Lastovo

"model" of building gravel

island of Lastovo, Cove of sv. Mihovil

LA-T1 LA-T2 LA-T3 LA-T4 LA-T5 LA-T6