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Igor Vukmanić

# THE DANUBE LIMES IN CROATIA - LIMES OFFICE ACTIVITIES 2008-2010

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The Danube Limes in Croatia has been registered on UNESCO tentative list<sup>1</sup> as the site which has potential to join the monument Frontiers of the Roman Empire. That property was the first transnational, serial World Heritage Site which currently includes Hadrian's Wall and Antonine Wall in Great Britain and Upper German-Raetian Limes in Germany. Remains of Roman frontier fortifications in some other modern European, Asian and African countries could also become part of the UNESCO World Heritage.

Once acting as the natural obstacle along the frontier of the province *Pannonia* and the Roman Empire, the Danube River (*Danuvius*) today marks the 188 km long<sup>2</sup> eastern Croatian border towards the Republic of Serbia. The exact Limes length that followed the Danube course in Croatia is somewhat shorter. It is about 137 km long<sup>3</sup> because Limes, due to large marshland areas of Kopački rit, deviated from the meandering Danube throughout the northeastern Croatian region of Baranja.

The northernmost Roman site in Baranja was *Ad Militare* (Batina). The military road connected it with the fort *Ad Novas* (Zmajevac). Along the edge of the Dan-

ube diluvial terrace, from Zmajevac to the south, the road could descend to the potential Roman military site in present day settlement Kamenac and then beyond, to forts situated in Dragojlov Brijeg, Lug and Kopačevo. The Roman localities in the immediate hinterland of Limes such as *Antianae*, *Mons Aureus* and *Mursella* and also Limes sites *Albanum*, *Donatiana* and *Ad Labores* referred to in Roman itineraries have not been matched to the ground. The road further on led towards *Mursa* (Osijek) and/or Nemetin, an obscure site on the former bank of the Drava River (*Dravus*). Since Limes road usually cut river meanders it could bypass the Danube bend and continued to the forts *Teutoburgium* (Dalj) and *Cornacum* (Sotin) in Slavonia, leading forward to *Cuccium* (Ilok) in Srijem, the southernmost Croatian region that Limes was made in Roman era. Aforementioned localities have been registered and protected but the accurate dimensions of sites have never been determined. The precise route of the Limes road is also not known although five milestones on its course have so far been found: one in Batina<sup>4</sup>, Bilje<sup>5</sup> and Podravlje<sup>6</sup> and two in Osijek<sup>7</sup>.

<sup>3</sup> ILKIĆ 2008, 199.<sup>4</sup> FRÖCHLICH 1888, 291.<sup>5</sup> PINTEROVIĆ 1971b, 62.<sup>6</sup> HOFFILLER 1912, 6, 7, sl. 6.<sup>7</sup> PINTEROVIĆ 1971b, 62; PINTEROVIĆ 1978, 95, 96, T. XIX.<sup>1</sup> <http://whc.unesco.org/en/tentativelists/2014/><sup>2</sup> SANADER 2003, 463.



Fig. 1: Batina 1970-excavation (photo: Muzej Slavonije Osijek).



Fig. 2: Dragojlov brijeg 1987-excavation (photo: Konzervatorski zavod Osijek).



Fig. 3: Lug 1988-excavation (photo: Konzervatorski zavod Osijek).

The real Roman frontier line in Croatia must have been the system which comprised Limes road, forts watchtowers and maybe bridgeheads on the right bank of the Danube. For many of them there is no information available because large scale surveys have never been conducted. The chain of watchtowers attested along the river frontiers in Netherlands<sup>8</sup>, Germany<sup>9</sup> and Hungary<sup>10</sup> has not been well documented in Croatia. However, there are some hints on the position of a few watchtowers in the records dating back to the early 20<sup>th</sup> century. All probable watchtower sites were found south of the Drava, in Slavonia and Srijem, where Limes follows the immediate course of the Danube. To this day in Erdut has been partially excavated the only watchtower site in Croatia<sup>11</sup>. The other watchtower has been located in Zlopolje<sup>12</sup> whereas one

or two more are believed to be destroyed in Vukovar<sup>13</sup>. Other watchtowers could have been situated in what is today Veliko Renovo, Šarengrad<sup>14</sup> and Turska skela<sup>15</sup>. State on their condition is going to be checked out in the future. The aforementioned sites could have disappeared due to erosion or by rebuilding activities in Modern day and the Middle Ages. Potentially the first watchtower discovered north of the Drava was located to the site Zmajevac-Grovišće 2 in 2008<sup>16</sup>. Neither of them has been protected under the National Protection Acts. Not a single bridgehead has yet been documented in the Croatian Danube region.

While Limes studies in Western and Middle European countries have represented the core of archaeological research for the past several decades or more, these

have in Croatia long been neglected. Therefore at this point different sorts of the national archive needs to be found, revised, confirmed or rejected. As systematic excavations were not common on Croatian Limes sites, there is plenty of survey potential. Some small scale excavations on military sites have been carried out in Batina<sup>17</sup> (Fig. 1.), Dragojlov brijeg<sup>18</sup> (Fig. 2.), Lug<sup>19</sup> (Fig. 3.), Kopačevo<sup>20</sup>, Osijek<sup>21</sup> and Sotin<sup>22</sup>. What surveying makes more difficult is that modern urban centers next to the Danube have been developed directly above Roman sites (Batina, Lug, Kopačevo, Osijek, Erdut, Dalj, Ilok). Most of the archaeological research in Baranja, Slavonia and Srijem is rescue excavation and is being driven by clearing an area for construction. Erosion took some place on fort sites in Batina and Dalj. The exact data when Romans settled and left the Middle Danube Limes have not been supported by excavation

results neither in southern Hungary neither in western Serbia. Limes in Croatia lies in between those two sections.

Because of Limes position on the most remote Croatian border, its long distance from major city agglomerations, more attractive Adriatic coastal sites and due to lack of employees, since 1970-ies there has been no systematic Limes research in Croatia. Due to museum and conservation organization intermission during the 1990-1995 conflict between Croatian and Serbian parties, the scarce archive documentation and few Roman military inscriptions concerning Limes from Vukovar and Sotin have been misplaced or destroyed. Some sites (Kopačevo, Nemetin) and sections of Roman road near Osijek are still threatened by landmines left over from the war.

<sup>8</sup> GERLACH et al. 2008, 9-16; Jilek 2008, 69.

<sup>9</sup> <http://www.limesstrasse.de/index.php?id=178>

<sup>10</sup> VISY 2003, 123-129.

<sup>11</sup> HEIM 1967, 12.

<sup>12</sup> DORN 1973, 27.

<sup>13</sup> PINTEROVIĆ 1971b, 69, 70.

<sup>14</sup> BALEN-LETUNIĆ 2004, 18, T.9.

<sup>15</sup> BALEN-LETUNIĆ - RADMAN-LIVAJA 2008, 423.

<sup>16</sup> BOJČIĆ et al. 2008, 128.

<sup>17</sup> PINTEROVIĆ 1971a, 55-59.

<sup>18</sup> MINICHREITER 1989, 102, 103.

<sup>19</sup> MINICHREITER 1990, 81.

<sup>20</sup> BULAT 1978, 85, 86.

<sup>21</sup> Information comes from colleague Slavica Filipović.

<sup>22</sup> LOŽNJAK-DIZDAR 2010, 22.



Fig. 4: Batina 2010-Non-destructive archaeological survey (photo: Igor Vukmanić).

To intensify the National Limes interest, in 2008 the Limes Office was established in the Archaeological Museum Osijek.<sup>23</sup> Its objective is to create a scientific database by interpreting archive maps, documents and photographs from Local, Regional, National and Museums abroad, from Archives and competent Conservation Bureaus, as well as to collect publications and to provide excavation on sites in northeastern Croatia. The GPS coordinates and photo-material on present state of the notorious Limes sites have been recorded in 2009. A website for the Danube Limes in Croatia has been developed and can be visited on the web address <http://www.dunavskilimes-amo.com.hr/>. To inform local and national interested parties with the entry procedure into the World Heritage List, paper on this topic has been published in the magazine *Osječki zbornik* 29.<sup>24</sup> Non-destructive methods of archaeological survey like GPR and geoelectrical mapping were

conducted in 2010 on the Roman fort site in Batina (Fig. 4.). The result is the conversance of the first comprehensive ground plan of several military buildings along the entire Croatian Limes. By virtue of modern achievements like satellite imagery and air photography more progress could be accomplished soon. A future aim is to prepare an adequately *in situ* presented Roman site because there are none along the Croatian part of Limes. Consequently the localities are invisible to the visitors.

Since Limes office has been conceived its emphasis has been put on communication with regional Heritage institutions and stakeholders to encourage work on the sustainable development of the Danube area in Croatia. This is just as important as using the highest standards in research, documentation and in the written revelation of sites.

<sup>23</sup> Since 2012 the Archaeological museum Osijek is a part of the Museum of Slavonia Osijek.

<sup>24</sup> VUKMANIĆ 2009, 25-36.

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## WEBSITES

<http://whc.unesco.org/en/tentativelists/2014/> (Feb. 20th 2010)  
<http://www.limesstrasse.de/index.php?id=178> (Jun. 5th 2010)



## PROGRAM / PROGRAM / PROGRAMM

PONEDJELJAK / MONDAY / MONTAG, 24.05.2010.

**Otvorenja skupa / Welcome by organizer / Begrüßungsansprache**

Mirjana Sanader, Odsjek za arheologiju, Filozofski fakultet Sveučilišta u Zagrebu  
Ante Rendić-Miočević, Arheološki muzej Zagreb

**Uvodna predavanja/ Opening lectures/ Eröffnungsreferate**

1. Jon Coulston, 'Roman military equipment in funerary contexts'
2. Nenad Cambj, Roman Military tropaea from Dalmatia

**Rimska vojna oprema u pogrebnom kontekstu / Weapons and Military Equipment in a Funerary Context / Militaria als Grabbeilage**

**Jon Coulston/ Ivan Radman Livaja**

1. Janka Istenič, Early Roman graves with weapons in Slovenia: An overview.
2. Dragan Božič, Roman weapons from Early Imperial graves at Polhov Gradec west of Ljubljana.
3. Danilo Breščak, Roman Weapons and Military Equipment in Early Imperial Graves at Verdun near Stopiče (Community Novo mesto, SE Slovenia).

**Eckhard Deschler-Erb/ Željko Miletić**

1. Lionel Pernet, Tombes à armes et auxiliaires gaulois aux IIe et Ier siècles avant notre ère. De l'étude de l'armement gaulois et romain à l'histoire sociale.
2. Torsten Kleinschmidt, Veteranen oder Zivilisten? Frühkaiserzeitliche Waffengräber im Treverergebiet.
3. Mojca Vomer Gojkovič, Poetovio and burial with military burial.
4. Ivan Žižek, Vojni elementi u istočnoj petovionskoj nekropoli.
5. Zsolt Mrav, Graves of Auxiliary Soldiers from the 1st century in Hungarian part of Roman Pannonia
6. Annelies Koster, Weapons in a late 1st century grave in Nijmegen (NL).

**Janka Istenič/ Zsolt Mrav**

1. Susanne Wilbers-Rost - Achim Rost, Kalkriese – Battlefield, military equipment and „graves“.
2. Thomas Fischer, Römische Militärgürtel in Grabfunden aus dem Donauraum
3. Nemanja Mrđić - Snežana Golubović - Angelina Raičković, Study of soldiers burials on the cemetery of Viminacium.

**Arheološki muzej u Zagrebu**

**Otvorenje izložbe/ Opening of the Exhibition/ Eröffnung der Ausstellung:**

*Nalazi rimske vojne opreme u Hrvatskoj/ Finds of the Roman Military Equipment in Croatia*

## UTORAK / TUESDAY / DIENSTAG, 25.05.2010.

**Sonja Jilek/ Piotr Dyczek**

1. Nemanja Mrđić - Miomir Korač - Snežana Golubović, Knives and Daggers in graves from Viminacium.
2. Liviu Petculescu, Roman military equipment in the cemetery of Noviodunum in Moesia Inferior.
3. Miroslav Vujović, Military equipment from Galerius burial rite at Gamzigrad - Romuliana (Serbia).

**Stefanie Hoss / Miroslav Vujovic**

1. Gerda Sommer von Buelow, Romuliana-Gamzigrad (Dacia ripensis). Ein neu entdecktes Waffengrab.
2. Katarzyna Czarnecka, Warriors in This and the Other World. Weapon furnished graves of the Przeworsk culture.
3. Bartosz Kontny, What could military equipment in graves mean? The case study of weapons and horses from cemeteries of the Balt tribes in the northern Poland (the Elbl g group).
4. Marcin Biborski - P. Kaczanowski, Grabinventare als Quelle fuer die Studien an der Bedeutung der roemischen Militaerimporte in der "barbarischen" Bewaffnung.
5. Xenia Pauli Jensen, Imitation and transformation – Roman militaria in south Scandinavian grave finds.

**Susanne Wilbers-Rost/ László Kocsis**

1. Thomas Grane, A late Roman military belt from Zealand?
2. Ulla Lund Hansen, "Late Roman Warrior graves in Denmark and their relations to the Danish Weapon Offering finds".
3. Vesna Girardi Jurkić, Weapons in Late Antique and Barbarised Graves in Istria.

**Prikazi oružja na nadgrobnim spomenicima / Funerary Iconography / Waffendarstellungen auf Grabsteinen****Mirjana Sanader/ Nenad Cambj**

1. Branka Migotti, Can soldiers on 3rd-century stelai in Panonnia be recognized only by their clothes?
2. Bebina Milovanović, Soldiers, decorations and military insignia at the gravestones from Viminacium.
3. Martin Wieland, Darstellung und Realität: Waffen und Ausrüstung auf Soldatengrabsteinen des 1. und 2. Jh. n. Chr.
4. Kristina Džin, Representations of Weapons at the Arch of the Sergii in Pula, the Sergii's Last Resting Place.

**Poster / Poster / Poster**

1. Kirill Firsov, Weapons and Military Equipment from Barbarous Necropolises of Central And South-Western Crimea In The First Centuries Ad.
2. Tino Leleković, The find of a Roman dagger from SE necropolis of Siscia (Sisak, Croatia).
3. Oleg Radjush, Burials 1-2 centuries with protective arms on the Middle Volga region.
4. Željko Miletić - Joško Zaninović, Legions and auxiliary units at Burnum.
5. Igor Borzić - Ivana Jadrić, Roman military food supply in Burnum – amphora casestudy.
6. Ivana Jadrić - Igor Borzić, Roman relief mould blown glass from Burnum.
7. Miroslav Glavičić, Roman coins found during archaeological excavations of the amphitheatre of the military legion camp at Burnum (2003 – 2009)
8. Igor Borzić - Miroslav Glavičić - Ivana Jadrić, Željko Miletić, Joško Zaninović, Topography of Burnum.
9. Mladen Ivan Jovičić, Cult of Jupiter Dolichenus at the Limes in Moesia Superior and Pannonia Inferior.
10. Ivan Bogdanović, Roman stone and clay shot from Viminacium amphitheatre.
11. Mónika Merczi, Ein spätrömisches Grab mit Waffenbeigabe aus Esztergom-Kossuth Straße.
12. Mirjana Sanader, Domagoj Tončinić, Das Projekt Tilurium.
13. Domagoj Toncinic - Sanja Ivčević, Das Projekt Tilurium - Waffendarstellungen auf Grabsteinen aus Tilurium.
14. Sanja Ivčević, Das Projekt Tilurium – Die Militaria.
15. Dino Demicheli, Das Projekt Tilurium – Ein Dichter im Legionslager Tilurium.
16. Ana Pavlović - Tomislav Šeparović, Das Projekt Tilurium - Die Fundmünzen.
17. Zrinka Šimić Kanaet, Das Projekt Tilurium – Die Keramikfunde.
18. Zrinka Buljević, Das Projekt Tilurium – Die Glasfunde.
19. Doina Benea, Römische Militärgräber aus der Provinz Dacia
20. Christoph G. Schmidt, Recyclt: Römische Militaria im mitteldeutschen Barbaricum – Siedlung und Gräberfeld Frienstedt, Kr. Erfurt
21. Josip Višnjic - Luka Bekić, Roman military equipment and weaponry from the Late Roman Principia in Tarsatica.
22. Boštjan Laharnar, Roman military equipment from the fortified settlements in the Notranjska region (SW Slovenia).
23. Petre Gherghe - Florin Ridiche - Marius Cristian Bâsceanu, Some information on the weapons belonging to the IVth century AD , discovered at Desa (Desa village, District of Dolj, Romania) in 2009.
24. Ivan Radman Livaja - Marko Dizdar, Roman military grave from Starigrad Paklenica.

25. Marko Dizdar – Ivan Radman Livaja, Roman military grave from Ilok.
26. Igor Vukmanić, The Danube Limes in Croatia.
27. Piotr Dyczek - Tomasz Kowal - Martin Lemke - Janusz Reclaw, The Danube Limes UNESCO World Heritage Project.

## SRIJEDA / WEDNESDAY / MITTWOCH, 26.05.2010.

**Ekskurzija u Dalmaciju/ Excursion to Dalmatia/ Exkursion nach Dalmatien**

Muzej triljskog kraja

Rimski legijski logor *Tilurium*

Arheološka zbirka Burnum

Predstavlanje projekta Burnum (hrvatsko-talijanska suradnja)

Predstavlanje Nacionalnog parka Krka

Rimski legijski logor *Burnum*

## ČETVRTAK / THURSDAY / DONNERSTAG, 27.05.2010.

**Oružje izvan pogrebnog konteksta / Non-funary Equipment / Militaria ohne Grabkonteks.****Ulla Lund Hansen/ Liviu Petculescu**

1. Zrinka Buljević, Glasphalerae in der römischen Provinz Dalmatien.
2. Miroslav Glavičić - Željko Miletić - Joško Zaninović, Finds of Roman military equipment from Burnum.

**Dragan Božić/ Lionel Pernet**

1. Sanja Ivčević, Roman military gear from Salona.
2. Mato Ilkić - Gorana Kušić, Roman military equipment and weaponry from Sotin (Cornacum).
3. Stefanie Hoss, Roman Military Belts - A Theoretical Approach.

**Mike Bishop, ARMS****Xenia Pauli Jensen/ Sanja Ivčević**

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3. Annette Elna Frölich, Iron Age Medical instrument cases excavated in Denmark.

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