From Deultum to DigiDeultum

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Abstract: The Roman colony of Deultum is the oldest Roman city in Bulgaria founded in AD 70. Its archaeological research began in the 1980s. From December 2023, a team of specialists from NAIM-BAS, Sofia University St. Kliment Ohridski and Municipal History Museum-Sredets is implementing a three-year project funded by Bulgarian National Science Fund ($K\Pi$ -06-H80/7 from 8.12.2023). Its main goal is to explore a possible fundamental change in the historical narrative of Deultum by combining the previous scientific approaches with those of digital humanities and archaeological sciences.

Keywords: Roman colony, Deultum, digital humanities

Ключови думи: римска колония, Деултум, дигитална хуманитаристика



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Founded probably in AD 70¹ by veterans of *legio VIII Augusta*, *Colonia Flavia Pacis Deultensium* is the oldest Roman city in Bulgaria and one of the two Roman colonies (together with *Colonia Claudia Aprensis*) established in the province of Thrace. *Deultum* is the only one to be studied archaeologically. It lies 15 km southwest of Burgas near the village of Debelt, Sredets municipality (**Fig. 1**).

Its archaeological research began in the 1980s. At that time, one of the first geophysical studies of an archaeological site in Bulgaria was carried out there (Figs 2-4). In 2004, the coordinate system of the *Deultum* National Archaeological Reserve was linked to the International Terrestrial Reference Frame (ITRF), a first for an archaeological site in the country (Figs 5a-5c). Aerial photographs were applied from the very

¹ Sharankov 2017: 37.

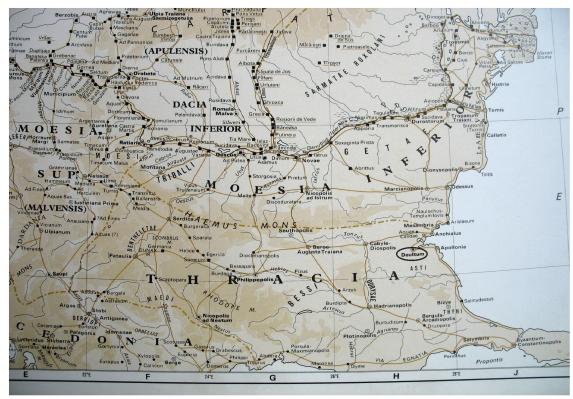


Figure 1. Location of Deultum. (Hammond 1981: fig. 24).



Figure 2. Results of electromagnetic geophysical surveys in *Deultum* in 1980s. (Photo: Kiril Velkovsky).

beginning (**Fig. 6**) along with traditional geodetic measurements and, of course, the usual field and office archaeological methodology. Digital models of the colony's terrain were then created, also facilitating

its effective study (**Fig. 7**). The interdisciplinary approach has always featured strongly in the work of the two successive archaeological teams, in the 1980s and since 2003. Currently, three main architec-

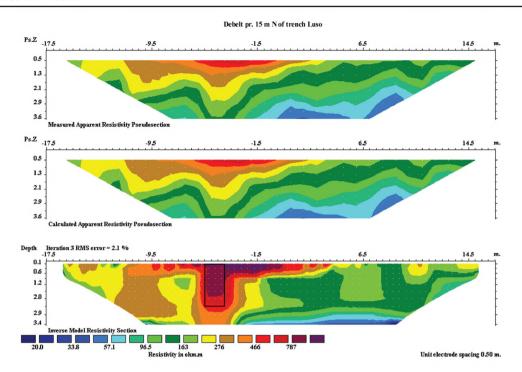


Figure 3. Detecting *Deultum* fortress wall by electromagnetic survey. (Author: Nikola Tonkov).

tural complexes have been excavated: the Roman *thermae*, the so-called "Temple of the Emperor" with adjacent structures and the late antique fortress of the city (**Fig. 8-14**). The excavations of both tumular and flat necropolises of *Deultum* provide rich information about the history of the colony (**Figs 15-17**). In 2023 the oldest archaeologi-

cal proof in Bulgaria of Christians (ca. AD 200) was found in a grave of the southern necropolis (**Fig. 18**)². Intensive GIS field surveys have been carried out during the last years on the administrative territory of *Deultum*³.

The scientific results of archaeologists, epigraphists, historians, numismatists, ar-



Figure 4. Geophysical survey in *Deultum* with ground penetrating radar. (Photo: Lyudmil Vagalinski).

² https://www.archaeologia-bulgarica.com/открито-е-най-древното-археологическ/

³ These are conducted by Assoc. Prof. Dr Ivo D. Cholakov.







Figures 5a – 5c. Control point types in *Deultum*. (Photo: Ian Haynes).

chitects, archaeozoologists, archaeobotanists, physical anthropologists, geologists, chemists, geophysicists and restorers have been published in numerous article⁴. These will be updated in an accessible online volume to be published in 2025.

From December 2023, a team of specialists from NAIM-BAS, St. Kliment Ohridski University and Museum-Sredets are implementing a three-year project funded by the Bulgarian National Science Fund. Its main goal is to explore a possi-



Figure 6. Aero photo in 1980s of the medieval fortress near *Deultum*. (Photo: Stefan Damyanov).

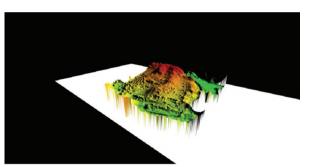
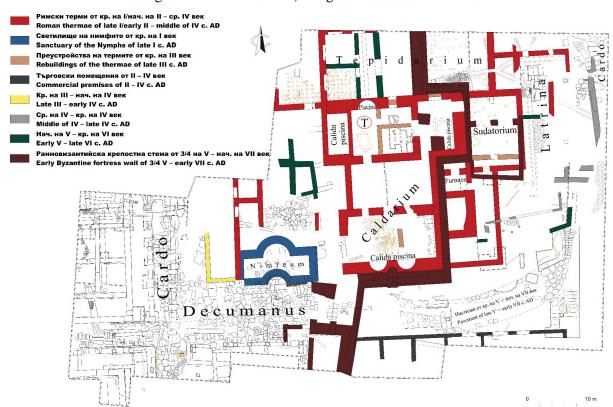


Figure 7. Digital model of the terrain of *Deultum*. (Author: Atanas Kamenarov).



Figure 8. Aerial photo of the current excavations in *Deultum*: Roman *thermae* (in the middle); the so-called "Temple of the Emperor" (right); late antique fortification. (Photos: Lyudmil Vagalinski).

⁴ Balabanov, Nenova-Merdjanova 2006; Draganov 2007; Vagalinski 2008; Preshlenov 2015; Sharankov 2017; Vagalinski 2018; Milčeva 2020; Boteva 2020; Raycheva 2022; Russeva 2023; Kostova, Sharankov 2023; Russeva 2023; Vagalinski 2024.



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Figure 9. Plan of the Roman thermae in *Deultum*. (Authors: Krasimira Kostova, Emil Dakashev).

ble fundamental change in the historical narrative of *Deultum* by combining the previous scientific approaches with those of digital humanities and archaeological sciences (archaeometry, GIS, archaeoinformatics, etc.). Practically, our previous scientific knowledge about the colony will be reinterpreted in a digital environment (**Fig. 19**). A DigiDeultum concept will be created through the development of digital products. The achieved results

will be shared with the partner projects Measuring Ancient Thrace, *Corpus Nummorum* and the scientific journals *Archaeologia Bulgarica* and Bulgarian Numismatic Journal.

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Figure 10. A hypocaust of the Roman thermae in *Deultum.* (Photo: Krasimira Kostova).



Figure 12. Legs of life-size Roman bronze human statues found in *Deultum*. (Photo: Hristo Preshlenov).

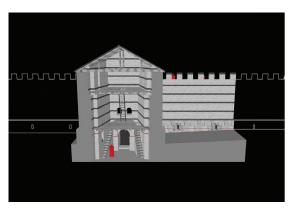


Figure 14. 3D reconstruction of the northern Late Roman tower of *Deultum* (Author: Silva Sabkova).



Figure 11. Bronze head of the Roman Emperor Septimius Severus found in *Deultum*. (Photo: Petya Nikolova).



Figure 13. The interior of the northern late Roman tower of *Deultum*. (Photo: Lyudmil Vagalinski).



Figure 15. A Roman burial in the southern necropolis of *Deultum* (Photo: Ivo D. Cholakov).



Figure 16. A magical gem found in a Roman burial in the western necropolis of *Deultum*. (*Kostova, Sharankov* 2023: fig. 15b).



Figure 17. Plan of the revealed graves in the southern necropolis of *Deultum*. (Author: Ivo D. Cholakov).



Figure 18. A silver foil rolled found in the southern necropolis of *Deultum*. The inscription is the oldest archaeological proof in Bulgaria of Christians, *ca.* AD 200. (Author: Silvia Borisova).



Figure 19. Digital coin processing in *Deultum*. (Photo: Lyudmil Vagalinski).

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От Деултум към DigiDeultum

Людмил Вагалински

Основаната най-вероятно през 70 г. сл. Хр. римска колония Деултум е найстарият римски град в днешните български земи. Неговото археологическо проучване започва през 80-те години на XX в. и продължава активно досега. От декември 2023 г. изследователи от НАИМ-БАН, СУ "Св. Климент Охридски" и Общински исторически музей – Средец започнаха работа по тригодишен проект, финансиран от ФНИ-МОН (№ КП-06-Н80/7 от 08.12.2023 г.). Основната проектна цел е да изследва възможна фундаментална промяна в историческия разказ за Деултум чрез комбиниране на традиционните научни методи с тези на дигиталната хуманитаристика и археометрията.