TACTICS, STRATEGIES AND FIGHTING SPECIFIC OF THE COHORTES EQUITATAE IN ROMAN DACIA

Petru Ureche

Tactici, strategii și specific de luptă al cohortelor equitate în Dacia Romană

Armata romană este renumită pentru abilitatea de a evolua în funcție de schimbările cerințelor politice și militare ale perioadei imperiale și a se adapta condițiilor locale în scopul de a înfrânge aproape orice oponent.

Romanii au înțeles că legiunile nu erau cele mai utile trupe în operațiuni care necesitau forțe care se deplasează rapid sau în lupte pe teren dificil sau muntos, acestea fiind mult mai potrivite pentru asedii și lupte plănuite. Astfel, în conflictele la scară mică și pentru menținerea securității interne și de frontieră, flexibilitatea tactică oferită de trupele auxiliare s–a dovedit extrem de utilă.

Acest studiu prezintă și analizează organizarea și tacticile utilizate de cohortele equitate – trupe mixte de infanterie și cavalerie, cu o privire specială asupra celor care au fost prezente și în Dacia. Analiza s–a făcut atât din punctul de vedere al specificului de luptă al populațiilor care alcătuiau cohortele equitate, cât și din cel al locului în care aceste trupe au fost cantonate.

Key words: mounted cohorts, tactics, fighting particularities.

This study presents and analyses the style and fighting tactics tackled by the *cohortes* $equitatae^1$ of the Roman army, with special attention to those that were garrisoned in Dacia, as well. The purpose of the paper is to broach this subject from the point of view of the populations that enter the structure of these troops and of the place the unit was quartered².

The Romans understood the necessity to have soldiers with different fighting skills, creating the auxiliary troops to support the legions³, but, shortly after, these troops became complementary to them⁴. The fighting tactic and the force of the troops on the limes were determined by the geographical conditions and by the nature of the enemy they were facing⁵.

For most of the *limes* zones infantry troops were used in the night watch and guard towers, as well as cavalry, floating troops, were used for patrol, as escorts or to stop and thwart barbarian raids⁶. This is the reason why during the Julio–Claudian dynasty⁷ a new type of troops was introduced to fulfill these requests. These miscellaneous troops are called *cohortes equitatae*⁸. Their introduction was possible due to the flexibility of the Roman military system that allowed structure and number modifications of the soldiers in a troop depending on the circumstances they had to act⁹.

¹ For regular cohorts see Ureche 2009.

² I want to thank dr. Cristian Găzdac for his support and for the digitized version of the map.

³ Găzdac 1997, 152.

⁴ Luttwak 1976, 41.

⁵ Gudea 1979, 65–66.

⁶ Lutwak 1976, 123, Peddie 1996, 76.

⁷ Dixon, Southern 1992, 26.

⁸ Cichorius IV. 1, 235; Cheesman 1914, 28; Davies 1989, passim.

⁹ Goldsworthy 1996, 13.

The mounted cohorts, alongside the other auxiliary troops were extremely efficient units within an army in which different types of troops made up special groups with well–defined functions¹⁰. Besides the campaigns, they could successfully oppose the barbarian population raids or eliminate the *latrones* bands¹¹. The *equitatae* cohorts rapidly became extremely useful troops. Their number soon exceeded that of the ordinary cohorts¹². The same happened in Roman Dacia, where 22 are mounted cohorts¹³.

As far as the manpower of these troops is concerned, sources offer somehow contradictory information. Thus, Hyginus specifies that within the *cohortes equitatae milliariae* there were 240 horsemen and 760 infantrymen, and in the *quingenariae* ones there were 120 horsemen and 380 infantrymen¹⁴. However, Josephus speaks in his reports on the Judaic War about a mounted cohort that had 120 horsemen and 600 infantrymen¹⁵. This apparent contradiction is explained by the fact that the number of soldiers and the structure of the troop were influenced by the type of conflict in the area they were stationed¹⁶, the recruitment capacities, the lost battles or the necessity of sending out in mission vexillations¹⁷. A troop had never a complete manpower.

G. L. Cheesman considered the *cohortes equitatae* as being horseback infantry troops, not very well trained, that rode weak horses. Likewise, he thought that those soldiers walked to the battle field, then dismounted and fought as infantrymen¹⁸. This affirmation was contradicted by numerous arguments being brought to it. Thus, if within the *cohortes equitatae* the manpower of the troops was not complete, the cavalry detachments were much closer to the theoretic number of soldiers that they had to have to the infantry's detriment¹⁹. This was possible due to the fact that the infantrymen could be promoted to *equites* later on²⁰. Turning from infantrymen to horsemen was only possible after a few years of service and only if the soldier proved to be qualified. He was trained before becoming a horseman, thus he was not just an infantryman on horseback, but a real horseman in the true sense of the word²¹.

Another counterargument to Chessman's affirmation is the fact that by turning from infantryman to horseman the soldier's pay rose²². The Romans' pragmatism of not spending too much money on week detachments it is well–known.

Arrian used the *equites cohortales* alongside the $alae^{23}$, not with infantrymen in the cohorts or legions. Consequently, the *equites* were not divided from the point of view of membership

¹⁰ Ruscu 1996, 227.

¹¹ Southern 1989, 125.

¹² Davies 1989, 141.

¹³ Petolescu 1995b, 237–275.

¹⁴ Hyginus 26, 27: 26. Habet itaque cohors equitata miliaria equites CCXL, quod redigo ad peditem, ut pedem, quod a accipit miles, redigo ad duo semis, quod accipit eques. Fit, dimidia sumpta, ductum quinquies. Sic tractabimus numerum equitum. Fit CXX, quinquies, fit DC. Accedunt ex ea cohorte miliaria, detractis equitibus, reliqui pedites DCCLX; fit cum superiore CI)CCCLX. Meminerimus itaque, ad computationem cohortis equitatae miliariae pedaturam ad CI)CCCLX dari debere. 27. Cohors equitata quingenaria in dimidio eandem rationem continet quam cohors [miliaria]. Habet itaque cohors equitata miliaria centurias X peditum, equites CCXL, turmas X, omnes tendunt papilionibus CXXXVI, ex eis centuriones et decurionessingulis papilionibus utuntur. Cohors equitata quingenaria habet centurias VI, reliqua pro parte dimidia.

¹⁵ Josephus 3.4.2.

¹⁶ Goldsworthy 1996, 24.

¹⁷ Goldsworthy 1996, 13.

¹⁸ Cheesman 1914, 29.

¹⁹ Davies 1989, 146.

²⁰ Goldsworthy 1996, 23.

²¹ Davies 1989, 145–146.

²² Breeze 1971, Speidel 1973, *passim*.

²³ Arrian 11, 20, *apud* Ruscu 1996, 210.

to *alae* or to cohorts²⁴, but from the point of view of the type of weapons they were using as proven by the funerary monuments in the same way as the *alae* and using the same tactics as them²⁵.

Chessman still cannot be accused of having made unfounded affirmations because the soldiers that did not enter the *alae* because they did not meet the height criteria were accepted in cohorts and could turn to *equites cohortales*²⁶. The quality of the training of horses and the equipment were in agreement with the pay, and because the *equites* in the cohorts were paid less than the ones in the *alae*, they were not that well equipped²⁷. These things lead to the fact that the *equites cohortales* represented a second line of cavalry as compared to the *equites alares*²⁸.

There were some cases where the equitate troops had to dismount and fight as infantrymen when the difficulties of the ground stopped them from fighting on horseback²⁹. In the forests³⁰ or in the areas with steep slopes, the dismounted *equites* were more agile than the legionaries or the auxiliary infantrymen due to their lighter equipment, but the cases where the horsemen that fought as infantrymen were always exceptions to the rule, being the result of terrain conditions³¹.

The horsemen in the equitate cohorts had to deliver messages, go in recognition actions or escort the infantry or the convoys that moved slowly, supply with animals for sacrifice or fight in the amphitheatres, collect the taxes or, together with the infantry, they had roles of garrisons or checking points³².

The *cohortes equitatae* were usually placed in the front line of the *limes* (see map 1), alongside the *cohortes peditatae*, while the *alae* were a little behind to be able to operate on a wider area.

The mounted cohorts were recruited from the populations well–known for their agility and ability to ride horses. The most well represented populations in these troops were: the Gauls, the Hispanians, the Pannonians, the Thracians and the Orientals.

The most famous auxiliary troops, and the first to be used by the Romans, were the Gallic ones, whose skill was known to the Romans since the wars with Hannibal³³. They were considered the best horsemen fighters of their time³⁴, being used by Caesar in his campaigns against the Helvetii³⁵. In Vespasian's time the Gauls were very much appreciated. Most of them were horsemen, for the *alae*, as well as for the *cohortes equitatae* recruited from *Gallia*³⁶.

The Gauls were armed with a *spatha*, a spear and a shield. The last one wasn't very wide and its surface was flat not curved, that's why it didn't offer too much protection to the soldiers³⁷. The fighting tactic of the Gallic cavalry, which consisted in throwing the spears while

²⁴ Ruscu 1996, 214.

²⁵ Davies 1989, 143.

²⁶ Davies 1989, 145–146.

²⁷ Davies 1989, 142.

²⁸ Davies 1989, 145.

²⁹ Frontinus 2.3.23: Imperator Caesar Augustus Germanicus, cum subinde Chatti equestre proelium in silvas refugiendo deducerent, iussit suos equites, simulatque ad impedita ventum esset, equis desilire pedestrique pugna confligere; quo genere consecutus, ne quis iam locus victoriam eius moraretur.

³⁰ Tacitus 37: Quod ni frequens ubique Agricola validas et expeditas cohortis indaginis modo et, sicubi artiora erant, partem equitum dimissis equis, simul rariores silvas equitem persultare iussisset, acceptum aliquod vulnus per nimiam fiduciam foret.

³¹ Davies 1989, 144–145.

³² Davies 1989, 146–148.

³³ Hyland 1993, 91.

³⁴ Strabo 4.4.2.

³⁵ Peddie 1996, 49. ³⁶ Hyland 1993, 91.

³⁷ Peddie 1996, 82.

³³¹

riding their horses, could not be successful against the heavy cavalry units, the battle at Carrhae being an example of their powerlessness³⁸. The horses the Gauls used were famous for their speed and height. The breed was obtained from crossing the Gallic horses with the ones in Italy³⁹.

The Gauls were high–spirited and quick for battle, "ready to throw themselves into danger without having any other support in their fight than their own force and bravery", but "they come together all at once for the struggle, both openly and without circumspection, so that for those who wish to defeat them by stratagem they become easy to deal with"⁴⁰.

The Gallic troops could be relatively "purely" ethnic or combined with other populations well–known for their abilities in riding horses and weapon handling. Among the Gallic *cohortes equitatae* in Dacia the first category was made up of the *cohors II Gallorum Macedonica* or *cohors II Gallorum*, while the second was composed of the *cohors II Gallorum Pannonica*⁴¹ and the *cohors V Gallorum et Pannoniorum equitata*⁴². There were many troops where Gauls were mixed with Pannonians. The last ones were considered by the Romans as being the bravest men they had ever met⁴³. This was the reason they were recruited and used in the Roman army starting with the early age of the Republic, taking the third place in the number of cavalry troops in this army, after Gauls and the Hispanians⁴⁴. Unfortunately at the moment, the place where the first two of the mounted cohorts in Dacia were garrisoned has not been found. The third one stationed in the garrison of Pojejena⁴⁵.

The second place, as far as the number of troops in the Roman army is concerned, is taken by the Hispanians, famous for their courage, almost bestial insensibility and ferocity⁴⁶. The Romans encountered the Hispanic troops first as enemies in the battle at Cannae, later on to be used by Caesar in Gallia against Vercingetorix⁴⁷.

Unlike the Gauls, the Hispanians did not engage in decisive battles, fighting all the time in a different place and using a tactic similar to the one used by thieves⁴⁸. This was possible because of the quick and obedient horses they used⁴⁹.

One of the tactics they used was that of two warriors riding the same horse, in battles one of them dismounting and fighting on foot, as an infantryman⁵⁰. This tactic explains also the great number of Hispanians *cohortes equitatae*, four, in Dacia: *cohors I Hispanorum Veterana equitata, cohors I Flavia Ulpia Hispanorum milliaria c. R. equitata, cohors II Hispanorum scutata Cyrenaica equitata, cohors IIII Hispanorum equitata⁵¹.*

The Hispanic troops were placed in areas of great importance to the defensive system of the province, especially in the fortresses on the border zones that supervised and dealt with barbarian horse riding populations⁵². This way there were two troops in the west of the Dacian limes: at Micia (*ala I Hispanorum Campagonum*)⁵³ and Bologa (*cohors II Hispanorum scutata*

³⁸ Hyland 1990, 181.

³⁹ Hyland 1990, 21.

⁴⁰ Strabo 4.4.2.

 ⁴¹ Petolescu 1995b, 256.
⁴² Petolescu 2002, 108.

⁴³ Dio Cassius 59.36, *apud* Găzdac 1997, 153.

⁴⁴Găzdac 1997, 153.

⁴⁵ Petolescu 2002, 108.

⁴⁶ Strabo 3.4.17.

⁴⁷ Hyland 1990, 14.

⁴⁸ Strabo 4.4.2.

⁴⁹ Strabo 3.4.15.

⁵⁰ Strabo 3.4.18.

⁵¹ Russu 1969, 148, Zahariade 1976, passim.

⁵² Zahariade 1976, 491.

⁵³ Zahariade 1976, 483; Bejan 1998, 39.

Cyrenaica equitata)⁵⁴; two in the north – at Românași (cohors I Hispanorum Pia Fidelis)⁵⁵ and Odorheiul Bistriței (cohors I Flavia Ulpia Hispanorum equitata)⁵⁶; one in the east – at Inlăceni $(cohors IIII Hispanorum equitata)^{57}$; two on the limes alutanus – at Hoghiz (ala I Asturum)⁵⁸ and Slăveni (ala I Hispanorum)⁵⁹ and two on the limes transalutanus – cohors I Hispanorum Veterana equitata at Bretcu (Angustiae) and Comalău and cohors I Bracaraugustanorum at Bretcu (Angustiae)⁶⁰, but here, we will refer in detail to the mounted cohorts only.

The fortress in Bologa, that can be found on the Crisul Repede Valley, at its confluence with the Sebes, guarded the entrance in the province through this valley. The fortress dominated the entire valley at a long distance⁶¹. The troop that was garrisoned here, *cohors II Hispanorum* scutata Cyrenaica equitata, received the epithet scutata, which meant that the soldiers of this troop had the right to wear a legionary *scutum* instead of an auxiliary *clipeus*⁶².

Orheiul Bistriței (cohors I Flavia Ulpia Hispanorum milliaria c. R. equitata)⁶³, together with Livezile, Ilişua and Căşeiu supervised the northern limes, being destined to stop the attacks of the so-called Free Dacians⁶⁴.

Cohors III Hispanorum equitata from Inlăceni controlled the territory between the upper part of the two Târnave⁶⁵.

The troops quartered in Bretcu controlled the passing road within the province towards East, and the one in Comalău controlled the commercial road on the Black River Valley in the east⁶⁶.

It was said that the Britons were the population that had no fear for their lives⁶⁷ and for this very reason they gave a lot of troops to the Empire even before the Flavian dynasty⁶⁸. Four cohorts of Britons activated in Dacia, one of them was equitata: cohors I Brittonum milliaria, and the others were peditatae: cohors I Augusta Nerviana Pacensis Brittonum milliaria, cohors II Augusta Nervia Pacensis Brittonum milliaria⁶⁹, and cohors I Aurelia Brittonum milliaria⁷⁰.

The Britons used big, heavy, blunt swords to fight, a thing that did not give them any advantage in fighting man against man. They preferred to fight from distance relying on throwing spears⁷¹.

There were two more equitate cohorts that came from Britannia on the northern Dacian limes - cohors I Britannica milliaria c. R. equitata, which was stationed in the fortress in Cășeiu⁷² and *cohors II Britannica milliaria*, which settled down in the west of the province, in

⁵⁸ Zahariade 1976, 485.

- 61 Zahariade 1976, 492. 62 Zahariade 1976, 480.
- 63 Zahariade 1976, 480.
- 64 Zahariade 1976, 492.

Marcu 2004, 219.

⁷² Petolescu 1995b, 242.

⁵⁴ Zahariade 1976, 480; Bejan 1998, 40.

⁵⁵ Bejan 1998, 40, Zahariade 1976, 479.

⁵⁶ Zahariade 1976, 480.

⁵⁷ Petolescu 1995b, 264.

⁵⁹ Zahariade 1976, 486. ⁶⁰ Petolescu 2002, 85.

⁶⁵ Zahariade 1976, 492.

⁶⁶ Zahariade 1976, 492.

⁶⁷ Tacitus 37: Et Britanni, qui adhuc pugnae expertes summa collium insederant et paucitatem nostrorum vacui spernebant, degredi paulatim et circumire terga vincentium coeperant...

⁶⁹ Petolescu 1995b, 245.

⁷⁰ Petolescu 2002, 92.

⁷¹ Tacitus, 36: ...simulque constantia, simul arte Britanni ingentibus gladiis et brevibus caetris missilia nostrorum vitare vel excutere, atque ipsi magnam vim telorum superfundere...quod et ipsis vetustate militiae exercitatum et hostibus inhabile [parva scuta et enormis gladios gerentibus]; nam Britannorum gladii sine mucrone complexum armorum et in arto pugnam non tolerabant.

Romita⁷³ after they built the fortress in Cășeiu⁷⁴ and participated in building the one from Ilişua⁷⁵ or at least by bringing the necessary materials⁷⁶. Dan Isac and Felix Marcu believe that the name of this troop was actually *cohors II Britannorum milliaria*⁷⁷.

The Thracians were also found amongst the Empire troops, especially in the *cohortes* equitatae, being known as a horse rider population. The troops in Dacia were: cohors I Thracum, cohors VI Thracum equitata, cohors I Thracum c. R., cohors I Thracum Sagittariorum and cohors II Flavia Bessorum.

It is only known about the first two to be *equitatae*. There is very few information regarding the place where they set camp. Thus, cohors I Thracum was present in the province only during Trajan's time, when it was stationed on limes alutanus, in Acidava, and then it was moved to *Moesia Inferior*⁷⁸. As far as cohors VI Thracum equitata is concerned, we may say that they activated on the western and north-western Dacian limes, because their stamped bricks have been found at *Porolissum*, Românași and Romita⁷⁹.

Another well-known type of cohortes equitatae was the one set up with Oriental archers. Cohors II Flavia Commagenorum sagittaria was amongst the troops that operated in Dacia. It is also possible that cohors I Flavia Commagenorum was an equitata and sagittaria cohort too^{80} , this population being skilled in using the bows and riding horses, most of the Commagenian cohorts being sagittaria, and the Syrians - one of the populations "born in the saddle".

The archers had to support other troops, standing behind them and shooting above them. They were usually used to offer support to the heavy infantry against the attacks of the cavalry, but they could not resist an attack by themselves⁸¹. Titus used them in the street fights during the siege of Jerusalem, placing them at the end of the streets⁸².

The archers on foot used bigger and stronger bows, this way having a wider shooting range than that of the archers on horses⁸³, because the riders lacked stability, their shooting platform being the horse saddle not the ground. Still, the riders could take action quicker on a larger surface due to their increased mobility. The riders in the cohortes equitatae of sagittarii fought using the same type of equipment as the ones in the $alae^{84}$.

As a moving horse represents a very unstable "shooting platform", the accuracy of an archer at a gallop shooting a precise target was pretty diminished. That is why his purpose in that moment was not to hit a specific target but to send as many arrows as possible towards the enemy so that some of them could find their target. The speed of shooting took the place of precision in these situations⁸⁵.

Whether on foot or on horseback, all the archers in the Roman army used the Mediterranean technique of shooting. The bow was held in the left hand, which was straightened ahead, and the right hand bent the bow spring up to the chin before releasing it. While being bent, the bow spring was held with a finger above the arrow and with one or two fingers under it⁸⁶.

⁷³ Petolescu 1995b, 243–244.

⁷⁴ Isac 2003, 33.

⁷⁵ Protase 1985, 250, note 15, *apud* Isac 2003, 34.

⁷⁶ Isac 2003, 34.

⁷⁷ Isac, Marcu 1999.

⁷⁸ Petolescu 1995b, 269–270.

⁷⁹ Petolescu 1995b, 271.

⁸⁰ Petolescu 1995b, 250.

⁸¹ Goldsworthy 1996, 190. ⁸² Josephus, 5.8.1.

⁸³ Coulston 1985, 245–6, apud Dixon, Southern 1992, 53.

⁸⁴ Davies 1989, 143. ⁸⁵ Goldsworthy 1996, 67.

⁸⁶ Goldsworthy 1996, 185.

Cohors II Flavia Commagenorum sagittaria was stationed at *Micia*⁸⁷, where together with *I Hispanorum Campagonum*⁸⁸ and *numerus Maurorum Micensium*⁸⁹ controlled both the Mureş Valley up to *Partiscum* and *Apulum* and the golden mines zone in the Apuseni Mountains. Attacks of the Iazyges were possible on Mureş Valley; this was the main sailing artery of *Dacia*⁹⁰. Proof of *cohors I Flavia Commagenorum* being stationed was found on the *limes alutanus* in Slăveni, *Romula* and *Acidava*⁹¹; it was positioned in front of the Free Dacian and Sarmatian tribes.

Cohors I Alpinorum equitata and *cohors I Ubiorum* were stationed on the eastern limes, in Sărățeni and Călugăreni⁹², respectively Odorheiul Secuiesc⁹³. These troops, together with *cohors IIII Hispanorum equitata* from Inlăceni controlled the upper flows of the two Târnave. *Cohors II Flavia Numidarum* was also stationed on the eastern border, on *limes alutanus*. This troop settled down in the fortress at Feldioara⁹⁴ on the Transylvanian Olt. Troops of Numidians were used ever since Caesar's time⁹⁵. The troop in Dacia, being an *equitata* one, was positioned in front of the Free Dacian tribes whose attacks they could counteract more easily.

Cohors VIII Raetorum equitata stationed in the Teregova⁹⁶ fortress in the west of Dacia.

According to D. Benea, it could be possible that all soldiers of the troops stationing at *Tibiscum* were recruited in the East and then, at the place, they were divided to the units according to various necessities⁹⁷. This theory is supported by the case below. *Cohors I Vindelicorum milliaria equitata c. R.* settled down in *Tibiscum*; it was a Celtic troop with Oriental elements as well. A Palmyrean was able to reach the position of a centurion in this cohort⁹⁸.

Cohors III Delmatarum milliaria equitata c. R. was also stationed in this area, at Mehadia, to control the road sector $Dierna - Tibiscum^{99}$.

By creating the *cohortes equitatae*, the Roman Empire obtained an inexpensive cavalry force that could even take the place of the well trained *alae*, if necessary. Likewise, the making of these troops solved the necessity of the presence of some infantrymen troops in the watch and guard towers, as well as of some mobile, cavalry troops, used for patrol, escorts or to stop and cross the barbarians' raids.

BIBLIOGRAPHY

Arrian — Arrian, *Appianov Ektačio kata Alanon*, Ed. A. G. Roos, Flavii Arriani quae existant omnia, volumen II, Scripta minora et fragmenta, 1928, 177–185; Ruscu 1996 – D. Ruscu, Ligia Ruscu, "EKTAΞIΣ KATA AΛANΩN" a lui Arrian și strategia defensivă a Imperiului Roman epocă hadrianică, EN 6, 1996, 205–235.

Caesar — Caesar, *De Bello Gallico*, L.–A. Constans, César, Guerre des Gaules, (Les Belles Lettres), Paris, 1954–1955.

Cassius Dio — Cassius Dio, Roman History, E. Cary, Dio's Roman History, I – VIII, (Loeb). London and Cambridge, 1914–1925.

⁸⁷ Petolescu 1995b, 250.

⁸⁸ Petolescu 1995a, 43.

⁸⁹ Petolescu 2002, 136; Benea 1985, 149.

⁹⁰ Zahariade 1976, 492.

⁹¹ Petolescu 1995b, 250.

⁹²Petolescu 1995b, 239.

⁹³ Petolescu 1995b, 272.

⁹⁴ Petolescu 1995b, 239.

⁹⁵ Caesar, II. 7.

⁹⁶ Petolescu 1995b, 268.

⁹⁷ Benea 1980, 138.

⁹⁸ Piso 1979, 139.

⁹⁹ Petolescu 2002, 102.

Frontinus — Frontinus, *Stratagemata*, Ch. E. Bennett, Frontinus, The Stratagems and The Aqueducts of Rome, (Loeb). London and New York, 1925.

Hyginus — Hyginus, *De munitionibus castrorum*; M. Lenoir, Pseudo–Hygin. Des fortifications du camp, Paris, 1979.

Josephus — Josephus Flavius, The Jewish War, H. St. J. Thackeray, Josephus II – III, The Jewish War, Loeb). London and Cambridge, 1956–1961.

Strabo — Strabo, Geografia, H. L. Jones, The Geography of Strabo, I – VIII, (Loeb). London and Cambridge, 1960–1967.

Tacitus — Tacitus, *De vita et moribus Iulii Agricolae*, M. Hutton, Dialogus. Agricola. Germania, (Loeb). London and New York, 1914.

Bejan 1998 — A. Bejan, Dacia Felix. Istoria Daciei Romane, Timişoara.

Benea 1980 — Doina Benea, *Numerus Palmyrenorum Tibiscensium*. Contribuții la istoria trupelor de palmyreni din Dacia, Apulum 18, 131–140.

Benea 1985 — Doina Benea, *Numerus Maurorum Tibiscensium. Contribuții la istoria trupelor de mauri din Dacia*, Banatica 8, 139–154.

Breeze 1971 — D. J. Breeze, Pay Grades and Ranks below the Centurionate, JRS 61, 130–135.

Cheesman 1914 — G. L. Cheesman, The Auxilia of the Roman Empire, Oxford.

Cichorius 1900 — C. Cichorius, Cohors, RE IV, 246–247.

Coulston 1985 — J. C. Coulston, *Roman archery equipment*, The Production and Distribution of Roman Military Equipment: Proceedings of the Second Roman Military Equipment Seminar (ed. M. C. Bishop), Oxford, BAR IS 275, 220–256.

Davies 1989 — R. Davies, Service in the Roman Army, London.

Dixon/Southern 1992 — Karen Dixon, Pat Southern, The Roman Cavalry, London.

Găzdac 1997 — C. Găzdac, Fighting Style of the Roman Cavalry in Dacia, ActaMN 34, 1, 151–166.

Goldsworthy 1996 — A. K. Goldsworthy, The Roman Army at War 100 BC – AD 200, Oxford.

Gudea 1979 — N. Gudea, The Defensive System of Roman Dacia, Britannia 10, 63–87.

Hyland 1990 — Ann Hyland, *Equus*: The Horse in the Roman World, London.

Hyland 1993 — Ann Hyland, Training the Roman Cavalry, London.

Isac 2003 — D. Isac, Castrul roman de la SAMVM – Cășeiu I, Cluj–Napoca.

Isac, Marcu 1999 — D. Isac, F. Marcu, *Die Truppen im Kastell von Căşeiu: cohors II Br(ittanorum) milliaria und cohors I Britannica milliaria c. R. equitata Antoniniana*, Limes 17 Zalău, 585–598.

Luttwak 1976 — E. Luttwak, The Grand Strategy of the Roman Empire, Baltimore–London.

Marcu 2004 — F. Marcu, Comments on the identity and deployment of cohortes I Brittonum, ActaMN 39–40, 1, 219–234.

Nemeth 2005 — E. Nemeth, Armata în sud-vestul Daciei romane/ Die Armee im Südwesten des römischen Dakien, Timişoara.

Peddie 1996 — J. Peddie, The Roman War Machine, Boduin.

Petolescu 1995a — C. Petolescu, Unitățile auxiliare din Dacia romană (I). Alae, SCIVA 46, 1, 35–50.

Petolescu 1995b — C. Petolescu, *Unitățile auxiliare din Dacia Romană (II). Cohortes*, SCIVA 46, 3–4, 237–275.

Petolescu 2002 — C. Petolescu, Auxilia Daciae. Contribuție la istoria militară a Daciei romane, București. **Piso 1979** — I. Piso, *Epigraphica (VI)*, Studii Clasice 18, 137–144.

Ruscu 1996 — D. Ruscu, Ligia Ruscu, " $E\kappa\tau a\xi\iota_S \kappa a\tau$ ' $A\lambda a\nu\omega\nu$ " a lui Arrian și strategia defensivă a Imperiului Roman în epocă hadrianică, EN 6, 205–235.

Russu 1969 — I. I. Russu, Elemente syriene în Dacia carpatică, ActaMN 6, 167–186.

Southern 1989 — Pat Southern, The Numeri of the Imperial Roman Army, Britannia 20, 81–140.

Speidel 1973 — M. Speidel, *The Pay of the Auxilia*, JRS 63, 141–147.

Ureche 2009 — Ureche 2009, *About the tactics and fighting particularity of the Auxiliary Infantry in Roman Dacia*, ActaMN 43–44, I, 247–262.

Zahariade 1976 — M. Zahariade, Trupele de origine hispanică din Dacia, SCIVA 27, 2, 473–494.



