The Novallas bronze tablet: An inscription in the Celtiberian language and the Latin alphabet from Spain

Francisco Beltrán Lloris1, Carlos Jordán Cólera1, Borja Díaz Ariño1, and Ignacio Simón Cornago2

1Universidad de Zaragoza, Departamento de Ciencias de la Antigüedad (fbeltran@unizar.es), (cjordan@unizar.es), (bdiazarino@gmail.com, corresponding author)
2Universidad de Granada, Departamento de Historia Antigua (isimon@ugr.es)

Abstract: The Novallas Bronze may be considered one of the most important epigraphic finds in recent years in Spain. It is a fragment of a public document datable to the last decades of the 1st c. BCE, composed in the Celtiberian language but written in the Latin alphabet. The Novallas Bronze is not only one of the latest inscriptions composed in this language – over half a century later than the famous inscriptions from Contrebia Belaisca – but also the longest Celtiberian document written in the Latin alphabet known thus far. This paper offers a complete publication of this exceptional document, as well as an analysis of the principal developments that the artifact illuminates and the consequent implications for the transformations that the Celtiberian people underwent during the transition from Republic to Empire, with particular focus on the process of Latinization.

Keywords: Celtiberian language, Palaeohispanic epigraphy, bronze epigraphy, Latinization, Romanization, Roman Spain

The Novallas Bronze, datable to the second half of the 1st c. BCE, preserves part of an important document composed in the Celtiberian language but written using the Latin alphabet. Its discovery has provided new data that have produced a radical shift in our understanding of the process of dissemination of the Latin alphabet and language among the Celtic populations of inner Spain.1

We currently know of almost 500 Celtiberian inscriptions, although this number is reduced to some 200 if we eliminate from the calculation those pieces with such short texts that they scarcely offer linguistic information.2 The majority of those documents

1 The Novallas Bronze was given a preliminary presentation, without a proper edition or a deep study of the text, at the XI Coloquio de Lenguas y Culturas Paleohispánicas, which took place in Valencia in October 2012 (Beltrán et al. 2013). It has since then been the subject of various partial studies (de Hoz 2018; Jordán 2014a; Jordán 2014b; Jordán 2015a; Jordán 2015b; Prósper 2017; Simón and Jordán 2018). A more detailed analysis of the document and its linguistic and historical context is Beltrán et al. 2021.

2 For an introduction to Celtiberian language and epigraphy, see Beltrán and Jordán 2019; also useful are Meid 1994; Villar 1997; Prósper 2005. The standard reference catalog for Celtiberian epigraphy continues to be that collated by Untermann in the fourth volume of the Monumenta Linguarum Hispanicarum (MLH), published in 1997, to which may now be added that included in Hesperia: Banco de datos on-line de lenguas paleohispánicas (BDH) (http://hesperia.ucm.es/). The list of reference works is completed by MLH V.I and by Wodtko and Jordán 2019. The journal Palaeohispánica regularly publishes a section called Chronica Epigraphica Celtiberica, which glosses all the new inscriptions that have appeared each year.
use the so-called Palaeohispanic script, a particular system of writing derived from the Phoenician abjad which, around the 8th c. BCE, was adopted by the Tartessians (who were settled around the mouth of the Guadalquivir River) and later spread among various populations in the south and east of Spain.3

It is likely that the Celtiberians adopted the Palaeohispanic script, in its east Iberian version, as early as the 3rd c. BCE, although the majority of Celtiberian inscriptions can be dated to the late 2nd and 1st c. BCE. The script’s distribution corresponds to the territory occupied by peoples whom ancient authors identified as “Celtiberi,” an exogenous term created perhaps by the historian Fabius Pictor, with the meaning “Celts of Iberia” (Fig. 1).4 The term refers to the peoples of Celtic language who settled around the Iberian System mountain range near the headwaters of the Tagus, Douro, and Ebro rivers, and against whom the Romans fought fiercely throughout much of the 2nd c. BCE.5 It is likely that other peoples in the interior of Spain, especially from the northern Meseta and the Cantabrian coast, spoke languages very close to that documented in the Celtiberian inscriptions. Unfortunately, however, their use of writing was rare, so we have very little information available on the subject.6

Celtiberian epigraphy includes not only private texts, such as inscriptions on pottery and small objects, but also documents that were official and/or intended for public display – in particular, some epitaphs,7 coin legends,8 tesserae hospitales,9 and, especially, inscriptions on bronze tablets.10 Despite the Celtiberian inscriptions’ distinctive character, practically all of them postdate the Roman conquest and are inspired to a greater or lesser extent by Roman models. For this reason, Celtiberian epigraphy should paradoxically be considered an early example of Romano-provincial epigraphic culture.11 Within the repertoire of Celtiberian inscriptions, there is a small group of documents that were written using the Latin alphabet.12 It is to this limited collection of documents that the Novallas Bronze should be added, and it is, in fact, the longest of all the Celtiberian-Latin texts known to date.

Discovery and description

The Novallas Bronze was discovered by chance in the early 21st c. at the Chicharroya III site (Fig. 2), which is in the district of Novallas (Zaragoza). Several archaeological excavations were subsequently undertaken on the site between 2017 and 2019, which led to the discovery of different structures devoted to wine production and associated with a Roman villa in use from the middle of the 1st c. CE until the Late Antique period.13

4 Pelegrín 2005.
7 Gorrochategui 2017.
8 Ripollès and Sinner 2019.
10 Jordán 2018.
11 Beltrán 1999; Beltrán 2018; Simón 2013.
12 Simón 2019.
13 Arcusa and Álvarez 2018.
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Fig. 1. Celtiberian-speaking area according to the findspots of written documents and names of autochthonous peoples in northeast Spain according to various sources. Bold, uppercase letters (e.g., BELLI) indicate Celtiberian peoples mentioned in ancient literary sources. Plain, uppercase letters (e.g., PELENDONES) are peoples considered Celtiberians only by some ancient authors. Bold, lowercase letters (e.g., Carpetani) are other Celtic-speaking peoples. Names in italics (e.g., Sedetani) are Iberian-speaking peoples. Vascones: Vasconic-Aquitanian-speaking people. (Drawing by M. C. Sopena.)

The research undertaken on site confirms that the zone in which the Bronze was found has been obliterated by recent agricultural work, which means that no archaeological strata have been preserved intact. In any case, the site has not provided evidence of occupation earlier than the middle of the 1st c. CE. This fact suggests that the Novallas Bronze arrived at the villa of Chicharroya III to be reused once its original function was obsolete, as occurred, for example, with the Agón Bronze – dated rather later – which was also recovered in a rural settlement where it was to have been melted down in order to reuse the metal.14

The piece has been kept at the Zaragoza Museum since 2012. It is a fragment of a bronze plaque of irregular shape (Figs. 3–4). It measures [18.1] cm in height by [22.5] cm in width and 0.2 cm in thickness (incomplete measurements are in brackets). The upper edge is original, whereas the other three have been cut. The right side was cleanly cut, and its edge has a carefully beveled finish. In contrast, the left and lower edges were carelessly cut and they have an irregular appearance.

Between the first line of the text and the upper edge, there is a margin of 1.5 cm. Approximately 1 cm from the upper edge and 9.5 cm from the left side, there is a deformity on the surface of the piece, similar to a rivet, but which nevertheless does not pierce the bronze sheet. Next to it is a square hole 0.5 cm wide, designed to allow the sheet to be fastened with a nail.

Surface analysis of the piece has identified the presence of salts, chlorides, and malachite on the plaque – a consequence of having been buried for a long time.15 Traces of carbons

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14 Beltrán 2006.
15 Beltrán et al. 2013, 618.
have also been identified, as well as the formation of corrosion oxides, both cuprite and tenorite, the latter the result of exposure to a source of intense heat. Metallographic analysis confirms that the bronze has a ternary composition of copper, lead, and tin, with small percentages of iron, nickel, and antimony.\textsuperscript{16} It shows a percentage of lead higher than the Celtiberian inscriptions in Palaeohispanic script from Contrebia Belaisca\textsuperscript{17} and closer to that of some Hispanian Latin inscriptions – such as the Lex Ursonensis, perhaps inscribed

\textsuperscript{16} Beltrán et al. 2013, 618–19.

\textsuperscript{17} E.g., Botorrita III (\textit{MLH} IV K.1.3 = \textit{BDH} Z.09.03), and Botorrita IV (\textit{BDH} Z.09.24).

Fig. 2. Location of the archaeological site of Chicharroya III and plan of the remains of the Roman rural villa. The circle at center right shows the approximate findspot of the bronze. (Drawings by M. C. Sopena and H. Arcusa.)
in the Augustan or Tiberian period,\textsuperscript{18} and the Lex Irnitana, from the Flavian period\textsuperscript{19} – although still less than the Hadrianic-period Agón Bronze,\textsuperscript{20} which stands out precisely because of its high lead content (Table 1).

The preserved text is arranged across 11 lines and includes a total of 40 words, some incomplete. It is written in excellently produced Latin capitals made through incision, which measure between 0.7 and 0.9 cm high. The alphabet used has some Late Republican palaeographic features, among which the most obvious are the M with open angles and the circular O, as well as the open P and R (Fig. 5). Some letters, however, possess slightly more evolved features that belong to a period a little further on – in particular, the C, D, and Q. Notable is the appearance of a particular type of S with a horizontal stroke on its bottom edge, which we here transcribe as ſ. All these elements allow us to think that the inscription should be dated around the last years of the Republic or the beginnings of the Augustan period.

There appears to be word segmentation at the end of the lines. This seems certain in the sequence PVBLI- in the second line and probably also in the CASCA- of the first. Word segmentation between two lines is a relatively late habit that is not documented in Latin legal epigraphy in bronze before the Caesarean period.\textsuperscript{21}

\textsuperscript{18} CIL II\textsuperscript{2}/5, 1022; Caballos 2006.
\textsuperscript{19} AE 1986, 332.
\textsuperscript{20} AE 2009, 617; Beltrán 2006.
\textsuperscript{21} Laffi 2004.
The cut on the left side affects all the lines of the text, so it makes it difficult to determine the number of letters lost. In contrast, the cut on the right side only affects the text from the third line, whereas the ends of the first two appear complete. The fact that to the right on the upper part of the bronze a space is preserved of up to 7 cm – much greater than the 1.5 cm of the upper margin – suggests that the text had at least a second column, without dismissing the possibility that it could have had another to the left, judging by the position of the mounting hole, which is usually placed at the center of a plaque.

Table 1.

Results of the metallographic analyses of the Novallas Bronze, the Celtiberian bronzes from Contrebia Belaisca III and IV, the Agón Bronze, the Lex Ursonensis (plaque and frame), and the Lex Irritana.

<table>
<thead>
<tr>
<th></th>
<th>Copper (Cu)</th>
<th>Lead (Pb)</th>
<th>Tin (Sn)</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novallas</td>
<td>76.95%</td>
<td>12.94%</td>
<td>8.81%</td>
<td>Beltrán et al. 2013, 618.</td>
</tr>
<tr>
<td>Novallas (patina)</td>
<td>78.07%</td>
<td>14.49%</td>
<td>6.59%</td>
<td>Beltrán et al. 2013, 618.</td>
</tr>
<tr>
<td>Contrebia Belaisca III</td>
<td>90.41%</td>
<td>1.08%</td>
<td>8.11%</td>
<td>Beltrán et al. 1996, 221.</td>
</tr>
<tr>
<td>Contrebia Belaisca IV</td>
<td>92.38%</td>
<td>0.54%</td>
<td>3.79%</td>
<td>Villar et al. 2001, 47.</td>
</tr>
<tr>
<td>Lex Ursonensis (plaque)</td>
<td>75.72%</td>
<td>16.03%</td>
<td>2.28%</td>
<td>Caballos 2006, 83.</td>
</tr>
<tr>
<td>Lex Ursonensis (frame)</td>
<td>91.36%</td>
<td>2.28%</td>
<td>6.36%</td>
<td>Caballos 2006, 83.</td>
</tr>
<tr>
<td>Lex Irritana</td>
<td>74.42%</td>
<td>15.32%</td>
<td>8.89%</td>
<td>Fernández and del Amo 1990, 113.</td>
</tr>
<tr>
<td>Agón</td>
<td>36.9%</td>
<td>56.8%</td>
<td>5.55%</td>
<td>Beltrán 2006, 151.</td>
</tr>
</tbody>
</table>

The cut on the left side affects all the lines of the text, so it makes it difficult to determine the number of letters lost. In contrast, the cut on the right side only affects the text from the third line, whereas the ends of the first two appear complete. The fact that to the right on the upper part of the bronze a space is preserved of up to 7 cm – much greater than the 1.5 cm of the upper margin – suggests that the text had at least a second column, without dismissing the possibility that it could have had another to the left, judging by the position of the mounting hole, which is usually placed at the center of a plaque.
The Novallas bronze tablet

Text and commentary

[---]OQVENDI · ANDO · BEDAM · DV · CASCA
[---]TIČAŠ · TERGAŠ · DOIBIM · ODAS · PVBLI
[---]VS · IIS · DVNDOM · LITANOM · PVBLIÇ+[−1−]
[---]+AS · II · ECQVE · S · VAMVŠ · LITANAM · [−1−2?−]

5 [---]AM · AVDINTVM · ODAS PVBLICVS · [−2−]
[---] · BEDAS · MEDOM · CONTREBAC · [−2−3−]
[---]+EIS · CABINT · SAM · BEDAM · T · [−3?−]
[---]+GAM · DERNV · [−2−3−]
[---]ETAM · CA+ · [−2−3−]

10 [---]S · PVBL · [−1−2−]
[---]AD · [−1−2?−]

3. The crux (i.e., the remnant of a letter that is impossible to identify) corresponds to the start of a line that was probably oblique, which, given the context, could belong to a V.

4. The crux could correspond to a D and, with less confidence, to an O. Before VAMVŠ the spacing is slightly wider. The reconstruction of LITANAM is plausible from a morphological perspective.

7. The crux could correspond to an N or an I. The next letter could also be F, but this is excluded for phonetic reasons and for its rarity in Celtiberian. Before SAM, the spacing is slightly wider.

8. The first crux seems to correspond to an A or an M, in which case, the second crux should be read I: [---]AIGAM or [---]MIGAM. The possibility cannot be excluded that the two cruces correspond, less plausibly, to an N: [---]NGAM.

9. The crux presents an angular shape that can only belong to an E or F.

11. The initial strokes could also correspond to an M.

Our knowledge of the Celtiberian language remains very limited. This, together with the text’s fragmentary state of preservation, makes it difficult, for the moment, to offer a completely satisfactory interpretation of the inscription. There are few terms whose meanings can be established with confidence.22 It is likely that the sequence CASCA- corresponds to the ancient city of Cascantum, identified with the modern town of Cascante,

situated in the vicinity of Novallas.\textsuperscript{23} Less confidently, the term \textit{TERGAS} could be interpreted as the ablativ singular of a nominative *TERGA. This may be related to the Celtiberian city that minted bronze coins at the end of the 2nd c. BCE with the legend \textit{ter-kakom}, written in Palaeohispanic script,\textsuperscript{24} which some authors identify with the modern municipality of Tierga, situated 50 km south of Novallas.\textsuperscript{25} \textsc{Contrebac[-2-3-]} seems to be related to the form \textit{kontebakom}, attested in Palaeohispanic script,\textsuperscript{26} an adjective formed by the suffix \textit{-ako-}, from a substantive \textit{contrebia}, the etymology of which seems clear: \textit{kom-} ("together") + *\textit{treb-} ("to live, habitation") + *\textit{yā} collective suffix.\textsuperscript{27} We know three Celtiberian cities called Contrebia: Contrebia Belaisca,\textsuperscript{28} Contrebia Carbica,\textsuperscript{29} and Contrebia Leucada.\textsuperscript{30} The latter is located where the modern town of Inestrillas is, 30 km north of Novallas. There is nothing to confirm that the word on the bronze refers to any of these cities, however, because it could also simply be a common adjective.

Some sequences can be interpreted as Latin loans. [---]\textit{Oqvendi}, which is hard to explain from a Celtiberian perspective, could correspond to a Latin gerund or gerundive, perhaps \textit{loquendi} or one of its compounds.\textsuperscript{31} \textit{Pvblicvs} also seems to be a Latin loan, given the disappearance of the original *\textit{p} in initial position in almost all ancient Celtic languages and, in particular, in Celtiberian.\textsuperscript{32} On two of the three occasions on which this word is repeated, it is associated with the term \textit{odas}, with which it appears to agree in gender and case, and in which the original *\textit{p} has in this case disappeared.\textsuperscript{33} It has been suggested that the sequence \textit{ODAS PVBLICVS} could be an imitation of the Latin sequence \textit{pedes publicos},\textsuperscript{34} although in fact this sequence is only documented from the medieval period.\textsuperscript{35} The sequence \textit{II ECQVE S} could also be borrowed from Latin, if II and S can be understood as a numeral and the abbreviation of \textit{semis}. \textit{ECQVE} bears all the appearance of a copulative coordinating conjunction,\textsuperscript{36} so the complete sequence seems to be the equivalent of the

\begin{thebibliography}{99}
\bibitem{23} \textit{MLH VI}, s.v. Cascantum.
\bibitem{24} \textit{MLH I A.70 = BDH Mon.70}.
\bibitem{25} \textit{MLH VI}, s.v. *terka.
\bibitem{26} \textit{MLH I A.75 = BDH Mon.15, and Mon.106}.
\bibitem{27} \textit{MLH VI}, s.v. kontebakom.
\bibitem{28} \textit{MLH VI}, s.v. Contrebia (1) Belaisca.
\bibitem{29} \textit{MLH VI}, s.v. Contrebia (2) Carbica.
\bibitem{30} \textit{MLH VI}, s.v. Contrebia (3) Leucas.
\bibitem{31} Contra Prósper 2017, 164–66.
\bibitem{32} Jordán 2019, 110–14.
\bibitem{33} Jordán 2014b, 339–40.
\bibitem{34} Prósper 2017, 167.
\bibitem{35} Cf. Du Cange 1887, s.v. \textit{pes publicus}.
\bibitem{36} Jordán 2019, 238; cf. \textit{MLH VI}, s.v. kue.
\end{thebibliography}
Latin expression *duo et semis*. In this respect, the form IIS that appears in the line immediately above could be identical to the former one and equivalent to the Latin abbreviation of *sestertius*,\(^{37}\) which is documented for the first time, without a horizontal stroke, in fractions of the denarius, which were minted at the end of the 3rd c. BCE.\(^{38}\) Both cases could be references to the Roman unit of measurement, the *pes sestertius*, which had already been recorded in the Twelve Tables.\(^{39}\)

Other words also allow for reasonable, but not always conclusive, interpretations. For example, LITANOM and LITANAM could be interpreted as respectively masculine and feminine accusatives of an adjective with three endings with the meaning “*wide*”\(^{40}\); VAMVŠ seems to be the ablative singular of an adjective in superlative degree, “*the highest*”\(^{41}\); whereas DVNDOM recalls the Latin form *dandum* – gerund or gerundive of the verb *dāre*, “*give*” – although in this case, maybe it is better to consider it a Celtiberian form, derived from the proto Indo-European root *deh₃* or *deh₃u-* which is also attested in the Lusitanian word DOENTI.\(^{42}\)

It is impossible to reach a wholly satisfactory conclusion about the content of the Novallas Bronze, and even less to propose a translation, bearing in mind, moreover, its fragmentary state of preservation: its lines are incomplete at their start and, in the majority of cases, also their end. All that can be asserted confidently is that it is an official text, written in Celtiberian language, of a good size, and intended to be displayed in a public space. It is likely, given its characteristics, that it was issued by the local authorities in *turiazu or kais-kata* – the two cities closest to where it was discovered – in the final decades of the 1st c. BCE.

It is possible that *duo et semis*, in association with the adjectives LITANOM and LITANAM (“*wide*”), could be related to the Roman concept of *ambitus* and *iter limitare* – that is, the space of two and a half feet that every owner was supposed to leave between two buildings or two fields, as recorded in the Twelve Tables\(^{43}\) and in the Lex Mamilia.\(^{44}\) It is therefore reasonable to propose the hypothesis that the Novallas Bronze contained a legal text that regulated the space it was necessary to leave empty around a road, a canal, or public property – although for the moment, it is impossible to confirm these possibilities.

**The Novallas Bronze in the context of Celtiberian epigraphy**

Inscriptions on bronze tablets can be considered one of the most characteristic elements of Celtiberian epigraphic culture. We currently know of four Celtiberian inscriptions on medium or large bronze tablets. Three of them were recovered in Contrebia Belaisca (Botorríta), from where the famous Tabula Contrebiensis also comes. The latter tablet, written in Latin, records the verdict of legal action fought between the Iberian city of Saldue
(Zaragoza) and the Vasconic city of Alaun (Alagón) over the construction of a canal. The verdict was delivered by the Senate of Contrebia Belaisca itself and sanctioned by the governor of the province of Hispania Citerior, C. Valerius Flaccus, in 87 BCE.45

Two of the bronzes from Contrebia are opisthographic, although it is not possible to determine whether the texts on the back and the front belong to the same document or – more probably – are examples of the support being reused (Figs. 6.1 and 6.2).46 Nor is there unanimity about the interpretation of their content, although in both cases it seems clear that these are legal texts with highly formulaic content.47 The third Contrebia bronze, also called the Great Bronze because of its large size (52 × 73 cm), records a long list of names arranged over four columns, preceded by a two-line heading.48 It is by far the longest inscription within the Celtiberian epigraphic corpus. Once again, our limited understanding of the Celtiberian language impedes identification of its nature, although there is no doubt that this is an official document, the layout of which is clearly inspired by Roman models.49

The collection is completed by the Luzaga Bronze (Guadalajara), which is slightly smaller than those recovered in Contrebia Belaisca (15 × 16 cm).50 We are likewise unable to understand its content, although everything indicates that it, too, is an official text that, according to some researchers, could correspond to an agreement involving two cities:51 arekorata52 and *lutia, perhaps the same Luzaga where the piece was discovered.53

To the four “great” Celtiberian bronzes we can add another four pieces produced on sheets of smaller dimensions.54 None of them exhibits mounting holes, so it is not possible to determine whether they were intended for public display (as were those discussed above), or if these were portable documents whose functions were closer to those of tesserae hospitales, among which there are occasional examples bearing relatively extensive texts.55

All these documents were written in Palaeohispanic script and can be dated approximately between the final decades of the 2nd c. BCE and the first decade of the 1st c. BCE. In fact, it is very likely that all of them predate the end of the Sertorian War, the point after which inscriptions in this type of script become increasingly rare.56 In this context, the Novallas Bronze constitutes an unexpected novelty. It is at least half a century later than the other Celtiberian bronzes, and it is the only one written using the Latin alphabet.

48 MLH IV K.1.1 = BDH Z.09.01; Beltrán et al. 1996.
50 MLH IV K.6.1 = BDH GU.01.01.
52 MLH VI, s.v. arekorata.
53 MLH VI, s.v. Lutia (1) and *Lutia (2).
54 MLH IV K.0.7 = BDH SP.02.03; MLH IV K.0.14 = BDH SP.02.08; BDH SP.02.16; BDH TE.03.01.
56 Diaz et al. 2019, 412–16.
The Novallas Bronze and Celtiberian epigraphy written in the Latin alphabet

Around the first half of the 1st c. BCE, the Celtiberians began to use the Latin alphabet to write their own language. At that point, they had already been using the Palaeohispanic script for over a century, having adopted it from the Iberians of the Mediterranean coast perhaps in the late 3rd c. BCE, if not before.

The Celtiberian-Latin epigraphic repertoire numbers barely 40 documents (Fig. 7).57 Half of those texts belong to the group of inscriptions incised on a rock wall of the open-air sanctuary of Peñalba de Villastar (Teruel),58 where several Latin inscriptions have also been

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58 MLH IV K.3 = BDH TE.17; see also: Jordán 2019, 870–912.
documented, among them a verse from Virgil’s *Aeneid*, which allows us to date the group to the early decades of the 1st c. CE. Peñalba has also provided the second-longest Celtiberian-Latin inscription after the Novallas Bronze, with seven lines of text and a total of 18 words. The remaining corpus of Celtiberian-Latin inscriptions is very small; we have only 8 tesserae hospitales, 2 inscriptions on gravestones, 2 coin legends, and several graffiti on pottery and other small objects.

Until the discovery of the Novallas Bronze, the use of the Latin alphabet to write the Celtiberian language appeared to be occasional, characteristic of a transitional period in which Latin started to prevail as an official language and the use of autochthonous languages became progressively restricted to increasingly marginal spheres. This perception has now been radically modified. Not only does the Novallas Bronze confirm the survival of Celtiberian as a public and official language at the end of the 1st c. BCE, but it also provides evidence that the use of the Latin alphabet was not something sporadic – on the contrary, it can be considered the result of a careful and systematic endeavor to adapt it. This endeavor even had as a consequence the creation of a new letter, following a process also attested among the Umbrians and the Gauls.

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61 MLH IV K.3.3 = BDH TE.17.03.
62 MLH IV K.7.3 = BDH TE.04.03; MLH IV K.14.2 = BDH BU.01.02; MLH IV K.15.1 = BDH P02.01; BDH BU.02.01; BDH P02.02; BDH SE.03.01; BDH P02.22; Martínez and Jordán 2016.
63 MLH IV K.26.1 = BDH S.01.01; *AE* 1988, 805; Gorrochategui 2013.
64 MLH I A.67.2 = BDH Mon.67.2; MLH I A.89.4 = BDH Mon.89.3.
65 MLH IV K.11.1–2 = BDH SO.05.01–02; *EE* IX 432; *AE* 1989, 470; Jordán 2019, 419.
66 Simón 2020.
The letter S corresponds to a fricative or affricate sound that could embrace [θ], voiceless interdental fricative; [ð], voiced interdental fricative; [ɕ], voiceless dental-alveolar affricate; [ʣ], voiced dental-alveolar affricate; and even other sounds. Following its identification on the Novallas Bronze, its presence has been confirmed in two of the Celtiberian-Latin inscriptions from Peñalba. It is also documented in several Latin inscriptions from the Imperial period, in which it is used in the transcription of a gentilic adjective and various autochthonous proper nouns (Fig. 8). The survival of this sign in Latin epigraphy from the interior of Spain until at least the early 2nd c. CE confirms that the adoption and adaptation of the Latin alphabet by the Celtiberians was a more significant phenomenon than we had suspected. In fact, it gives the impression that its use must have been more prevalent than the limited number of documents implies and suggests the existence of more widespread and systematic forms of teaching writing than has been believed.

The historical and territorial context

Although we do not know the exact spot where the Novallas Bronze was displayed, nor are we able to determine its contents with precision, the territorial context of its provenance offers some clues that enable us to evaluate it better as a historical document. The municipality of Novallas is situated in the central valley of the Queiles River, which rises among the slopes of the Moncayo Massif and discharges into the Ebro by the Navarran city of Tudela (Fig. 9). The Queiles formed part of the geographical space to which the Graeco-Latin authors refer with the term Celtibia, the northern limit of which was in the Middle Ebro Valley. According to Appian, in the early 2nd c. BCE, the Celtiberian populations that were settled alongside the Ebro were members of the Lusones. Upriver of the Ebro, in the region of the current province of La Rioja, were the Berones, a Celtic people whom the ancient authors never included among the Celtiberians. Downriver, around the mouths of the Jalón and Huerva Rivers, lived the Sedetani, who were not Celtic but Iberian. The Vascones were settled on the left bank of the Ebro, but with some cities also located to the south of the river.

The Queiles Valley has provided very few ancient inscriptions. The most representative Palaeohispanic documents are perhaps the coin legends from turiazu (Fig. 10.1–2) and kaiskata (Fig. 11.1), which from a numismatic perspective can be considered

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68 Jordán 2015a.
69 Simón and Jordán 2018.
70 Díaz in press.
71 Lorrio 2005, 33–64.
72 App. lb. 171 and 345; MLH VI, s.v. Lusones; Burillo 2007, 205–15.
73 MLH VI, s.v. Berones; Burillo 2007, 220–28.
74 MLH VI, s.v. Sedetani.
75 MLH VI, s.v. Vascones.
76 Beltrán and Simón 2017.
77 MLH I A.51 = BDH Mon.51; Gozalbes 2009.
78 MLH I A.49 = BDH Mon.49.
Celtiberian,\textsuperscript{79} even if there are some doubts about the linguistic adscription of the toponym \textit{kaiskata-Cascantum}.\textsuperscript{80} The Celtic character of the language spoken in the territory was confirmed by the stone found in the 18th c. in the vicinity of Tarazona, composed in the Celtiberian language and written in Palaeohispanic script.\textsuperscript{81}

Rome came into contact with the Queiles Valley a little after the end of the Second Punic War, with various military campaigns that culminated in the defeat of the Celtiberians by the troops of the praetor Ti. Sempronius Gracchus at the Battle of Mons Chaunus, perhaps the Moncayo mountain itself,\textsuperscript{82} and the foundation in 179 BCE of the city of Gracchurris – modern Alfaro in La Rioja.\textsuperscript{83} From this point, the Ebro Valley became the principal access route into the interior of the Peninsula, and the territory around the Moncayo Massif became a transition zone between the area controlled directly by Rome and the Upper Douro where Numantia was situated, which would be the object of periodic military campaigns until 133 BCE.\textsuperscript{84}

In this period, corresponding to the so-called Late Celtiberian (3rd to 1st c. BCE), there is evidence in the Queiles Valley of a significant increase in the number of settlements that, in the middle course of the river, organized themselves around the oppidum of Turiaso. This was probably situated below the old town of Tarazona, which at that time, acquired

\begin{itemize}
\item \textsuperscript{79} Jordán 2019, 286–88 and 305–6.
\item \textsuperscript{80} Velaza 2010.
\item \textsuperscript{81} \textit{MLH} IV K.8.1 = \textit{BDH} Z.01.01; Jordán 2019, 470–73.
\item \textsuperscript{82} Liv. 40.50.2. Untermann does not accept this identification and believes that the battle must have taken place farther south; cf. \textit{MLH} VI, s.v. Chaunus mons.
\item \textsuperscript{83} \textit{MLH} VI, s.v. Gracurris; Hernández 2002.
\item \textsuperscript{84} Cf. Richardson 1986, 126–55.
\end{itemize}
fully urban characteristics, as the intensity of its mint from the second half of the 2nd c. BCE indicates.\textsuperscript{85} Something similar occurred downriver, around Cascantum, which in the second half of the 2nd c. BCE also had a mint, although with a much smaller volume of emissions.\textsuperscript{86}

The model of territorial occupation that followed the Roman conquest is related to the implementation of new production strategies oriented toward obtaining surpluses of grain, wine, and perhaps oil – destined to be distributed locally and regionally\textsuperscript{87} – and with the development of intense mining and metallurgic activity associated with the exploitation of seams particularly rich in iron ores that lay in the foothills of the Moncayo.\textsuperscript{88}

This landscape changed radically in the 70s BCE. The area provided one of the main theaters for the confrontation between Sertorius and the troops of the Senate, and many cities that took part on one side or the other suffered serious damage.\textsuperscript{89} Among those most affected were Contrebia Leucada (Inestrillas), Calagurris (Calahorra), Gracchurris (Alfaro), Bursao (Borja), and Cascantum itself.\textsuperscript{90}

\begin{itemize}
  \item P{ér}ez 2017.
  \item G{ó}mara et al. 2017.
  \item García et al. 2019; cf. D{í}az 2009.
  \item Liv. frg. 91; Str. 3.161.
  \item Beltrán 2017c.
\end{itemize}

\textsuperscript{85} Pérez 2017.
\textsuperscript{86} Gómara et al. 2017.
\textsuperscript{87} García et al. 2019; cf. Díaz 2009.
\textsuperscript{89} Liv. frg. 91; Str. 3.161.
\textsuperscript{90} Beltrán 2017c.
The consequences of the war against Sertorius explain the radical restructuring that occurred across the region in the final days of the 1st c. BCE, coinciding with the unfolding of the Cantabrian Wars. At this point, a profound redevelopment of the network of rural settlements began, some of which by then already corresponded to the typology of the villae rusticae that became characteristic of the region over the next two centuries. The settlement of Chicharroya III itself, where the Novallas Bronze was discovered, belongs to this series of new farms.91

91 García and Pérez 2011; Gómara et al. 2018.

Fig. 10. Coins from turiazu/Turiaso. (1) Silver denarius. Obverse: bearded male head with torc, and letter ka. Reverse: mounted lancer, legend turiazu (MLH I A.51.1 = BDH Mon.51.1); (2) Bronze fraction. Obverse: female head wearing a galea, and letter ka. Reverse: galloping horseman, crescent moon, and star, legend turiazu (MLH I A.51.1 = BDH Mon.51.1); (3) Bronze as. Obverse: female head, legend Silbis. Reverse: horseman raising his arm, legend Turiaso (RPC I 401); (4) Bronze as. Obverse: head of Augustus, legend Imp(erator) Augustus p(ater) p(atriae). Reverse: corona civica, legend mun(icipium) Turiaso (RPC I 405). (Drawings by M. C. Sopena.)

Fig. 11. Coins from kaiskata/Cascantum. (1) Bronze unit. Obverse: bearded male head with plow behind it and letter ka. Reverse: mounted lancer, legend: kaiskata (MLH I A.49.1 = BDH Mon.49.1); (2) Bronze as. Obverse: head of Tiberius, legend Ti(berius) Caesar diui Aug(usti) f(ilius) Augustus. Reverse: bull, legend: municip(ium) Cascantum (RPC I 425). (Drawings by M. C. Sopena.)
The transformation of the rural landscape was probably associated with the construction of waterworks intended to further the development of intensive agriculture supported by irrigation. The famous Lex rivi Hiberiensis, recovered in the municipality of Agón in the neighboring Huecha Valley, regulated the operation of an irrigation canal as it passed through the pagus Gallorum (Gallur), which belonged to the colony of Caesar Augusta (Zaragoza), and the pagus Belsinonensis (Mallén), which formed part of the municipium of Cascantum.92 The law is from the Hadrianic era, but it is possible that it reflects a reality that, at least partially, could date back to the early Imperial era, the point at which – in the wake of the foundation of Caesar Augusta – expensive water infrastructure projects were commissioned, intended to extend the ground that was to be irrigated in various places on the right bank of the Middle Ebro Valley.93 It is in this context of profound changes in the organization of the territory that Turiaso and Cascantum were each granted their status as municipium.

Turiaso attained the status of municipium under Roman law in the Augustan era, as Pliny relates and its coins confirm.94 In the 20s BCE, an exceptional emission of bronze asses was issued, perhaps intended to celebrate its legal promotion. This emission bears on its obverse a female head accompanied by the legend Silbis, which has unanimously been identified as a local aquatic deity, whereas on the reverse is depicted an equestrian statue, probably Augustus, accompanied by the legend Turiaso (Fig. 10.3).95 After a hiatus of almost two decades, the mint resumed its activities around 2 BCE and, until the end of Tiberius’s reign, regularly issued bronze asses and fractions that incorporated the types and legends characteristic of the Hispano-Roman coins of this period (Fig. 10.4).96

It has been proposed that Turiaso’s early elevation to municipium could have been related to a hypothetical stay by Augustus in the city, during which he perhaps recovered from the illness that affected him in 26 BCE, during the initial campaign of the Cantabrian Wars.97 There is no way of confirming this attractive hypothesis,98 despite that fact that in Tarazona, remains have been discovered of what could be a sanctuary related to a water cult – perhaps under the protection of the same goddess Silbis, who is reproduced on the coins – in which an exceptional carnelian bust of Augustus was recovered, which is perhaps a sign of the city’s special connection with the princeps.99

Cascantum was a smaller city than Turiaso. Pliny mentions it among the communities governed by Latin law, but it is difficult to determine the date of its promotion.100 Its status as a municipium is confirmed by the few coins that it emitted in the Tiberian era, which incorporate the usual iconographic elements in municipal Hispano-Roman emissions, accompanied by the legend municip(ium) Cascantum (Fig. 11.2).101 It is possible that the change in its legal status occurred a little after Turiaso’s, perhaps after the end of the

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93 Beltrán and Willi 2011, 23–31; Beltrán 2017c, 170–78.
95 RPC I 401–2.
96 RPC I 403–24.
100 Plin. NH 3.24.
Cantabrian Wars. As we have seen, this is the point at which, following the foundation of the colony Caesar Augusta around 15 BCE, the right-hand bank of the Middle Ebro Valley started to undergo a process of profound reorganization. This probably included the promotion to municipium of other cities in the area, such as Gracchurris (Alfaro, La Rioja) and Osicerda (La Puebla de Hijar?, Teruel).102

It is likely that, given its characteristics, the Novallas Bronze could have been displayed in one of these two cities. All indications suggest that its text contains a legal document in which, it seems, various cities were implicated, among them perhaps Cascantum itself. The text's chronology allows us to place it within a complex historical moment in which the Roman authorities implemented a profound territorial reorganization that culminated in the conversion of the ancient Celtiberian urban nuclei into municipia. We barely know the main strands of this complex process, which probably took a long time. It is tempting to think that the Novallas Bronze could have been directly related to these shifting circumstances in which, as some cities became municipia, they had to redefine their relationship with their neighbors who had not, and who continued to use Celtiberian as their official language.

Final thoughts

Our knowledge of the Celtiberian language remains very limited, despite the notable advances achieved by the research undertaken in recent decades – research stimulated by the discovery of a cluster of singularly important inscriptions that have significantly augmented the slender repertoire of texts preserved in that language.

What we do know is that the Novallas Bronze belongs to a time of rapid and profound political and economic changes in inner Spain. This period witnessed both the final breakup of those characteristic features of autochthonous societies that had survived the initial phase of Roman conquest and the development of the new model of Romano-provincial society that would characterize the Julio-Claudian period. In this context, this new inscription allows us to sense a much more complex reality than we had until now been able to suppose, in which the old local language, Celtiberian, demonstrated an unexpected vigor at the very moment when the process of Latinization already appeared irreversible.

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The Novallas bronze tablet


Francisco Beltrán Lloris et al.


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