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LA-ICP-MS Analysis of Silver Coins for the KOINON Project

Maryse Blet-Lemarquand

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THE *KOINA* OF SOUTHERN GREECE

Historical and Numismatic Studies
in Ancient Greek Federalism

edited by Catherine Grandjean



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THE *KOINA* OF SOUTHERN GREECE:
HISTORICAL AND NUMISMATIC
STUDIES IN ANCIENT GREEK
FEDERALISM

edited by Catherine Grandjean

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LA-ICP-MS ANALYSIS OF SILVER COINS FOR THE KOINON PROJECT

Maryse Blet-Lemarquand

Elemental analysis of silver coins provides useful information to answer historical, numismatic and archaeological problems because coin's composition reflects the choice of an issuing authority (that of minting pure silver or silver more or less debased by the addition of a metal of lesser value) and also results from the use of certain metal stocks, available at a given time in a given place (pure metals from mines, recycled metals refined or not), which potentially have distinct chemical signatures. We present here the LA-ICP-MS method performed in 2017-2019 for analysing silver coins as part of the ANR-16-FRAL-0002 KOINON project (2017-2020) led by C. Grandjean.

ELEMENTAL COMPOSITIONS OF ANTIQUE COINS

Antique coins were made from “pure” silver, produced from a silver ore for example or obtained by refining recovered metal, or they were made by alloying silver with copper and with copper-based alloy. The metal that the ancient metallurgists considered pure in fact still contains impurities whose proportions result from multiple factors: composition of the ore or of the metal to be recycled, preparation of the ore, metallurgical operations and especially the last one, the cupellation, carried out to part silver from lead-silver alloy.¹ Previous analyses carried out on Greek coins showed that the most important impurities contained in purified silver are lead, gold, bismuth and copper, whose concentrations can reach 1 to 2%, in the case of lead and gold. Not all have the same significance for our studies: for example, gold remains with silver during metallurgical operations so that the ratio between the contents of both these elements is maintained from the silver ore to the object: gold is a relevant tracer.² This is also the case to some extent with bismuth.³ The level of residual impurities has a direct impact on the proportion of silver. For example, Greek silver coins such as Philips or Alexanders coins generally contain more than 99% silver but in some examples the proportion is only 96% and yet they were not made from a voluntary alloy because the copper content is low (less than 0.2%).⁴ Particularly high gold and lead contents account for these lower silver concentrations.

Larger proportions of copper in silver coins –above 1% or a few percent– are a sign that the silver has been deliberately debased by adding copper. It is not always easy to interpret intermediate copper contents: do they result from hasty refining or do they result from the deliberate addition of the red metal? A previous study carried out on Sassanid silver coins of the VIIth century showed that some specimens were made of pure silver where copper range from 0.5% to 1%, while others, contemporary and issued by the same workshops, were made of a silver-copper alloy made by adding 3% or more copper to pure silver.⁵ Therefore, an addition, as small as it may seem –here 3%– makes sense because it represented a significant gain for the mint.

1 Meyers 2003.

2 Blet-Lemarquand *et al.* 2014.

3 For explanation about bismuth see references quoted in Olivier *et al.* 2018, 131.

4 Olivier *et al.* 2018.

5 Silver drachms of Khusrō II (590-628), see Blet-Lemarquand *et al.* 2009.

As with silver, the ancient metallurgical processes used to produce copper left impurities in the refined metal. Elemental analysis carried out by FNA has proved a rare series of so-called “bronze” coins issued at Elis, probably during the second half of the third century, to be made of pure copper.⁶ Arsenic is the predominant impurity, its concentrations are about 0.2%, above that of other elements (iron, nickel, lead, antimony, silver, tin or cobalt), which contents are between 0.1% and 0.01%. If copper with this composition is mixed with silver, then the resulting silver-copper alloy will be enriched in arsenic and in the other impurities introduced with the addition of copper. We can expect the compositions of the obtained silver-copper alloys to exhibit a correlation that is roughly linear between the arsenic and copper contents. Similar trends are indeed verified between both these elements but also between copper and nickel for the triobols minted in Megara with the Achaian *koinon* types.⁷

THE LA-ICP-MS ANALYSIS OF SILVER COINS

The methods developed in the IRAMAT-CEB laboratory in Orléans since the end of the 1970s for numismatics primarily meet the need to preserve objects and to provide a maximum amount of information since they make it possible to determine the composition of major, minor and trace elements in order to address various issues. Since the mid-2000s the LA-ICP-MS (Laser Ablation Inductively Coupled Plasma Mass spectrometry) method has been applied in Orléans to characterize silver coins.⁸ The principle is as follows: a laser beam is focused on the surface of the coin to take a micro-sample and the aerosol of material sampled is analysed continuously in a mass spectrometer. The composition calculations are carried out in the same time. The trace left on the coin is invisible to the naked eye, the method is multi-elemental, suitable for a wide range of concentrations (from a few tens of % to a few ten thousandths of % –or ppm–⁹ or less), allows high throughput rates and allows the analysis of the metal under the surface which can be corroded using the profile mode.¹⁰

It has been well established since the 1970s that the surface of silver coins is very often enriched with silver compared to the inside.¹¹ To overcome this problem, silver coins are analysed with the LA-ICP-MS depth profile mode. This approach consists in recording the signals of the different elements of the micro sample as we sample into the material. By keeping this temporal parameter, we can establish the depth composition from the coin's surface (beginning of the analysis) towards the interior. To illustrate this mode, the silver and copper curves obtained for a micro-sampling carried out on a Thessalonian *koinon* coin have been plotted (fig. 1): the silver content reaches nearly 90% near the surface of this coin and stabilizes at a little less than 80% deeper. And it is the latter result that will be kept. Thus we have access to the original alloy, worked in the coin workshop, which is located below the surface of the coin that is potentially depleted in copper or contaminated.

In order to estimate the accuracy and the precision of the LA-ICP-MS analysis, an industrial silver-copper alloy of known composition was analysed in every batch of coins analysed for the ANR-DfG KOINON program (fig. 2). This standard reference material¹² is supposed to contain 8.5% copper alloyed with 91.5% silver. Thirty-three micro-samples were carried out on 16 different days of analysis over a year and a half. A very good agreement was obtained between the theoretical values and the averages of the measured values. Moreover, the LA-ICP-MS results show that

6 FNA: Fast Neutron Activation using a cyclotron (for information on this bulk, multi-elemental and non-destructive method see Guerra & Barrandon 1998). Collaborative study carried out with Franck Wojan, see Wojan 2016.

7 See Grandjean's and Blet-Lemarquand's contribution in this book.

8 First developments carried out by G. Sarah, see Sarah *et al.* 2007 and Sarah & Gratuze 2016. The first major work for Greek coinage is J. Olivier's PhD thesis on Ptolemaic coins (Olivier 2012).

9 Ppm or part per million; 1 ppm = 1 mg/kg = 0.0001%.

10 The IRAMAT-CEB laboratory is equipped with a Thermo Fisher Scientific *Element XR* ICP-MS associated with a Resonetics *Resolution M-50-E* laser system operating at 193 nm. Further information on the implementation of the LA-ICP-MS method in Sarah & Gratuze 2016.

11 The question of the “surface enrichment” of ancient silver-copper alloy coins and the impacts of this phenomenon for the metallurgical analysis have been much discussed. See particularly Ponting 2012 and Sarah & Gratuze 2016.

12 It was purchased from Comptoir Lyon-Alemand, Louyot et Cie (CLAL).

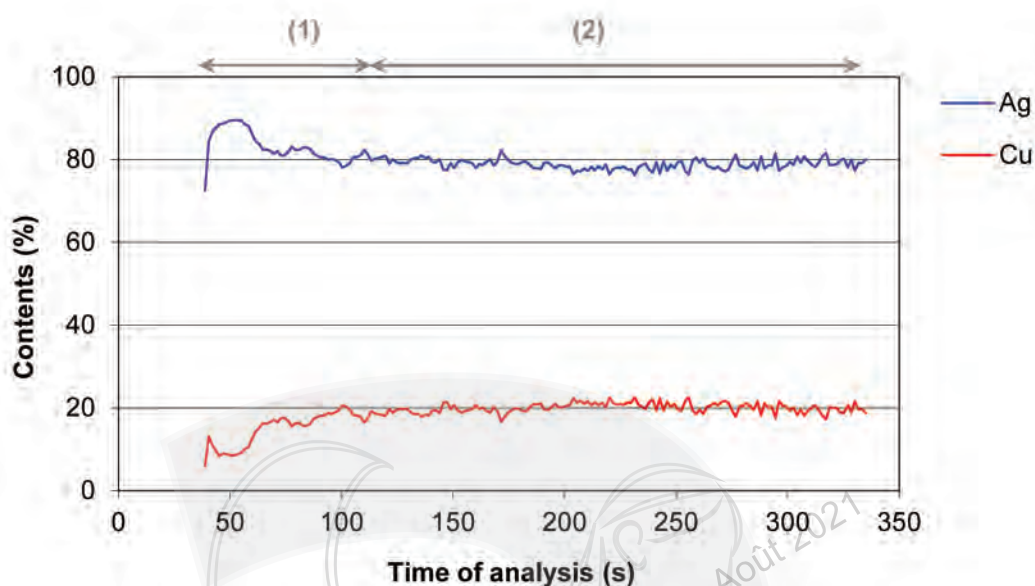


Fig. 1. LA-ICP-MS depth profile mode carried out on a *Thessalian koinon* coin (BnF FG 11).
 (1) Perturbed surface. (2) "Inner part" of the coin.

	Theoretical composition	LA-ICP-MS contents				
		AV	MED	SD	RSD	Range
Ag (%)	91.5	91.43	91.47	0.21	0.20%	91.00–91.87
Cu (%)	8.5	8.56	8.52	0.21	2%	8.12–8.99

Fig. 2. Repeated analyses by LA-ICP-MS of an industrial silver-copper alloy. AV: average; MED: median, SD: Standard deviation, RSD: Relative standard deviation, Range: minimal-maximal values.

this method is very reproducible for this type of samples because the standard deviations calculated for copper and silver concentrations are low.

For analysing antique coins, two to three different micro-samplings are generally performed on each coin using the LA-ICP-MS depth profile mode in order to determine general results on the composition. First, for each micro-sampling, only the part of the analysis that represents the 'inside' of the coin is retained and the average composition is calculated (example in fig. 1). Further, the average and the standard deviations (SD) or relative standard deviations (RSD) of the results obtained from those two to three laser ablated samples are evaluated. SD and RSD express the fluctuations in composition between the different micro-samplings.

Fig. 3 displays these parameters in case of copper for all the 251 silver coins analysed in the framework of the KOINON project. The RSD are below 10% for two thirds of the coins and half of the coins showing 20% of more RSD for their copper contents are poor in copper with 2% or less. It should be noted that RSD for lead or bismuth are sometimes higher than those calculated for copper and gold for instance. This is expected because it is well-known that lead and bismuth are immiscible elements in silver and copper matrixes. Thus, small discrepancies in the concentrations of both these elements between different coins may not be meaningful.

A few rare coins analysed for the ANR-16-FRAL-0002 KOINON project appeared to be heterogeneous because their elemental composition in copper varied significantly during depth ablation or between different micro-samplings. The results of these latter analyses could be questionable. For this reason, these coins were also analysed using the

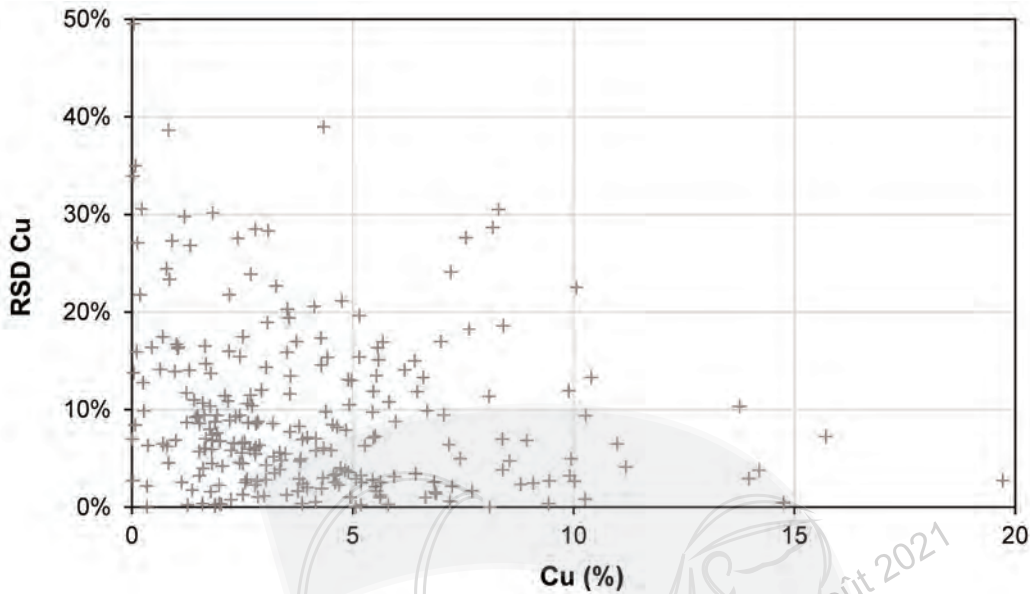


Fig. 3. Relative standard deviations (RSD) of copper contents against the average copper contents for all the 251 Greek Hellenistic silver coins analysed by LA-ICP-MS in the framework of the KOINON project.

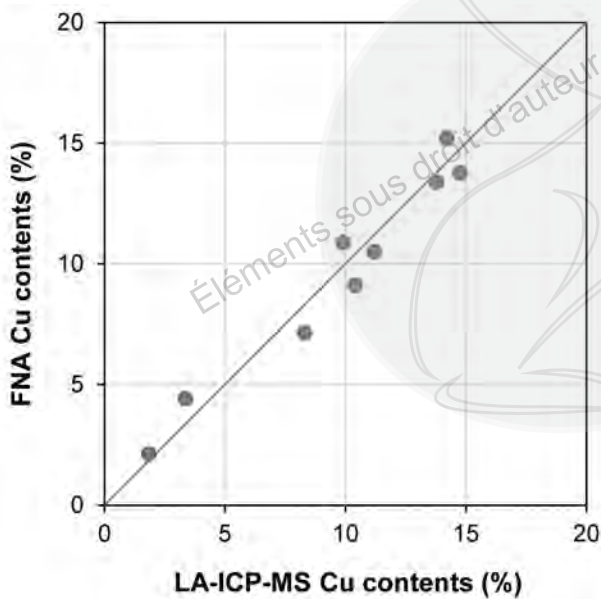


Fig. 4. Comparison between LA-ICP-MS and FNA copper (Cu) contents obtained for nine different coins: five Achaian triobols (Aigion, Megara, Sparta) and four civic triobols (Mantineia, Megalopolis, Megara). The red line represents the perfect concordance between the two methods.

FNA method,¹³ which provides an average content of the coin as a whole for all detectable elements.¹⁴ The comparison of the copper concentrations is given in fig. 4 and shows that both methods are consistent. It proves that for this type of coin the laser micro-sampling associated to the depth profile mode is representative for the entire object.

The metal the coins studied for the ANR-16-FRAL-0002 KOINON project are made of appears to be quite homogeneous at the scale of the laser micro-sampling when the depth profile mode is applied and therefore the LA-ICP-MS analysis of these silver coins gives reliable and relevant results. The concentrations of the most meaningful elements determined for the coins analysed by LA-ICP-MS are tabulated in the next pages.

¹³ The method is applied by means of the cyclotron of the CEMHTI laboratory (CNRS, Orléans) whose staff is warmly thanked for the irradiation facilities.

¹⁴ Barrandon *et al.* 1988.

LA-ICP-MS ANALYSIS OF SILVER COINS FOR THE KOINON PROJECT

APPENDIX

Elemental results of coins analysed by LA-ICP-MS, at the IRAMAT-CEB laboratory, for the ANR-DfG KOINON project. Contents in weight % or ppm (ppm or part per million; 1 ppm = 1 mg/kg = 0.0001%). All the coins belong to the Département des monnaies, médailles et antiques, BnF, Paris (except one coin that was lent by a private collector).

Classification	Inv. No.	Ag (%)	Cu (%)	Au (%)	Pb (%)	Bi (%)	Fe	Co	Ni	Zn	As	Sn	Sb
Achaian <i>koinon</i>	FG 199	94.7	2.8	0.62	1.7	0.073	—	2	2	6	20	138	18
	FG 199A	98.2	1.5	0.072	0.12	0.047	—	0.4	2	2	2	58	0.5
	L 167	95.4	3.8	0.25	0.32	0.095	—	—	—	299	0.2	4	2
Aesillas	FG 108	93.5	5.1	0.43	0.84	0.11	84	8	12	8	23	229	32
	FG 109	92.6	5.6	0.37	1.3	0.097	18	6	10	2	20	320	61
	FG 110	96.2	2.9	0.41	0.40	0.11	65	5	17	2	14	145	5
Aitolia	Luynes 1949	97.1	1.6	0.59	0.56	0.022	7	0.1	—	3	1.0	457	2
	Luynes 1950	96.7	1.9	0.45	0.82	0.034	14	—	—	5	2	131	2
Aitolian <i>koinon</i>	1967.279	97.0	1.7	0.63	0.54	0.027	39	0.6	2	4	2	477	2
	FG 19	94.8	3.8	0.56	0.71	0.097	14	0.3	—	0.4	7	110	2
	FG 21	98.7	0.0063	1.0	0.023	0.19	14	0.3	—	0.6	2	0.2	0.5
	FG 22	96.1	2.5	0.76	0.41	0.059	—	0.5	2	2	14	2,031	3
	FG 24	97.6	1.8	0.10	0.32	0.18	—	0.6	2	0.6	3	4	4
	FG 3	97.1	1.9	0.39	0.56	0.037	—	0.3	—	1	1	58	0.5
	FG 30	95.6	3.5	0.48	0.37	0.055	—	1.0	7	3	23	18	8
	FG 31	98.5	0.032	1.2	0.034	0.21	18	0.3	—	3	3	3	0.8
	FG 10	97.9	1.3	0.35	0.44	0.047	18	0.2	—	1	0.2	18	0.5
	FG 14	89.8	8.4	0.51	1.3	0.055	—	0.1	14	0.5	21	10	24
	FG 15	96.0	2.8	0.16	0.56	0.39	—	0.7	15	1	8	235	2
	FG 17	96.1	2.4	0.59	0.74	0.045	25	0.3	—	1	2	309	3
	FG 20	96.8	2.3	0.59	0.21	0.044	44	—	—	1	0.9	63	0.8
	FG 27	95.0	4.1	0.40	0.26	0.18	—	—	—	—	3	0.7	3
	FG 6	97.6	1.4	0.51	0.43	0.017	8	—	—	1	0.1	83	0.2
	FG 7	98.8	0.11	0.55	0.50	0.015	24	0.1	—	1	2	7	2
	FG12	97.7	1.2	0.90	0.14	0.022	15	0.1	—	1	2	146	0.3
	FG18	98.1	1.0	0.52	0.31	0.032	60	—	—	3	0.8	81	1
	Luynes 1952	98.4	0.97	0.44	0.12	0.021	229	0.3	1	5	0.3	263	0.8
	Luynes 1953	97.7	0.013	1.7	0.011	0.10	79	1	1	1	2	1.0	—
	Luynes 1954	98.2	1.0	0.43	0.29	0.012	—	0.2	—	0.4	0.2	10	1
	Delepierre 1252	98.1	0.85	0.46	0.48	0.061	13	0.1	—	3	1	39	1
	Delepierre 1253	98.8	0.27	0.56	0.34	0.013	15	—	—	2	0.2	16	0.8
Delepierre 1255	96.8	2.2	0.56	0.34	0.025	12	—	—	1	1.0	101	1	

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Aigion, Achaian <i>koinon</i>	AA.GR.23018	93.2	4.9	0.40	1.1	0.32	18	3	5	2	38	249	19
	FG 5	88.8	9.9	0.47	0.76	0.032	38	2	13	3	31	214	9
	FG 6	95.6	3.1	0.32	0.55	0.39	18	4	5	2	15	217	7
	FG 7	97.3	1.8	0.68	0.14	0.037	—	0.2	—	0.7	16	9	0.6
	AA.GR.2803	99.7	0.083	0.031	0.088	0.019	—	0.5	—	0.4	—	2	—
	AA.GR.2804	85.1	13.8	0.39	0.60	0.085	11	15	75	5	103	657	39
	Delepierre 1972	91.8	7.2	0.35	0.59	0.018	10	10	15	2	31	106	24
	FG 1	88.8	10.3	0.37	0.52	0.018	—	4	63	2	54	321	10
	FG 3	92.0	7.0	0.51	0.41	0.055	11	7	16	3	25	241	27
	FG192	97.0	1.8	0.43	0.58	0.20	—	0.5	2	1	1	164	1.0
Delphic Amphictyony	FG 204	99.4	0.12	0.31	0.21	0.0025	17	—	—	4	1	4	0.2
Delphic Amphictyony (fake)	Delepierre 3135	98.6	0.34	0.071	0.89	0.097	—	—	—	10	4	39	5
Anaktorion	Delepierre 1218	91.8	7.2	0.33	0.49	0.098	16	5	19	2	79	2	7
	Delepierre 1219	83.5	15.7	0.24	0.36	0.10	22	15	30	43	212	36	26
Antigoneia, Achaian <i>koinon</i>	FG 12	93.3	5.6	0.38	0.71	0.061	—	0.6	4	0.2	8	5	6
	FG 13	94.4	4.2	0.44	0.92	0.052	13	0.4	2	1	7	282	13
	FG 16	93.6	5.2	0.39	0.75	0.049	—	0.5	4	0.4	7	20	12
	FG 17	94.9	3.5	0.42	1.1	0.044	13	0.6	3	1	25	335	6
	FG 18	92.8	5.3	0.53	1.3	0.038	2	1	4	0.5	41	29	11
	FG 194	96.4	1.4	2.2	0.0073	0.0001	4	0.1	—	5	2	24	0.7
Arcadia	FG 257A	95.5	3.4	0.16	0.69	0.10	117	0.2	—	5	2	1,665	4
	FG 258	92.3	6.2	0.85	0.51	0.090	2	0.4	5	2	5	204	7
Arcadian <i>koinon</i> , Kleitor	Delepierre 2285	98.6	0.70	0.33	0.24	0.11	12	—	—	1	0.5	11	0.7
	Delepierre 2286	97.5	1.6	0.21	0.58	0.099	11	—	—	0.6	1	9	2
	FG 244	96.7	2.0	0.066	1.1	0.086	5	0.2	1	1	2	8	3
	FG 246	93.9	5.5	0.14	0.38	0.023	8	1.0	4	2	3	3	34
	FG 247	96.2	2.5	0.13	0.97	0.19	6	0.3	—	143	1	162	3
	FG 251	99.7	0.032	0.073	0.027	0.21	—	0.3	—	0.2	1	0.2	—
	FG 251A	95.9	3.3	0.13	0.64	0.067	68	0.6	2	10	16	9	4
Arcadian <i>koinon</i> , Mantinea	FG 248	96.8	2.6	0.015	0.51	0.035	7	1	1	2	15	2	2
	FG 255	95.2	3.6	0.026	1.1	0.046	11	0.1	—	1	4	1.0	2
	FG 256A	95.6	3.0	0.012	1.3	0.024	—	—	—	0.5	0.5	0.8	1
	FG 257	91.0	8.5	0.19	0.17	0.085	72	0.3	5	2	196	55	76
Arcadian <i>koinon</i> , Tegea	FG 239	96.9	1.2	0.028	1.8	0.058	24	0.1	2	3	2	13	2
	FG 243	98.0	1.3	0.068	0.30	0.29	38	0.1	—	2	5	19	4
	Luynes 2312	95.5	3.7	0.027	0.74	0.026	22	—	—	0.6	1.0	3	0.7
	N 5373/ FG 250	97.9	1.4	0.19	0.39	0.082	32	—	—	0.4	0.5	2	0.5
Argos	FG 31	95.8	2.4	0.37	1.3	0.027	7	0.3	1	5	10	79	5
	FG 36	96.3	2.5	0.65	0.30	0.20	19	6	10	3	7	585	4
	FG 37	97.0	2.2	0.42	0.26	0.074	—	0.5	—	0.4	0.4	43	0.3
	FG 38	96.0	2.7	0.30	0.95	0.086	9	0.1	2	3	4	20	3
	FG 40	97.0	2.0	0.31	0.36	0.31	—	0.4	1	0.5	0.5	19	0.6
	FG 44	89.6	9.4	0.33	0.52	0.066	39	6	10	7	65	60	19
	FG 45	88.7	10.1	0.31	0.58	0.081	21	6	8	4	52	47	20
	FG 47	88.1	11.0	0.29	0.47	0.065	91	6	18	5	34	48	15
	FG 49	96.6	1.7	0.42	1.2	0.12	5	0.3	—	1	0.1	2	0.4
	FG 56	94.1	4.7	0.39	0.54	0.19	33	1	5	3	25	252	12
Y 23880	96.2	2.9	0.40	0.44	0.092	27	16	39	16	6	80	8	

LA-ICP-MS ANALYSIS OF SILVER COINS FOR THE KOINON PROJECT

Argos, Achaian <i>koinon</i>	AA.GR.2806	97.5	1.6	0.69	0.13	0.026	3	—	—	1	0.2	41	0.2
	AA.GR.9705	97.6	1.5	0.70	0.16	0.022	2	0.4	—	0.4	1	56	0.2
	AA.GR.9706	96.1	2.8	0.60	0.46	0.043	—	0.2	—	1	2	25	0.2
	FG 10	96.6	2.7	0.16	0.32	0.19	—	—	1	3	13	5	3
	FG 102	97.6	1.5	0.70	0.13	0.020	11	—	—	1	1	26	0.2
	FG 19A	96.0	2.5	0.55	0.91	0.043	7	—	2	1	2	27	4
Corinth	FG 389	94.6	4.6	0.20	0.54	0.060	5	4	12	3	66	9	15
	FG 392	95.7	3.6	0.36	0.30	0.054	17	1	5	3	6	18	2
Corinth, Achaian <i>koinon</i>	FG 31	94.9	4.3	0.36	0.39	0.071	—	0.8	3	2	4	133	4
	FG 31A	96.4	2.6	0.60	0.40	0.039	8	0.1	1	2	1	41	0.8
Dyme, Achaian <i>koinon</i>	AA.GR.23016	92.8	5.8	0.61	0.75	0.059	7	0.3	13	0.4	13	25	29
	FG 36	91.5	6.9	0.50	0.95	0.096	7	2	5	2	88	97	31
	FG 38	94.9	3.8	0.29	0.94	0.053	5	0.3	1	0.5	2	27	19
	FG 39	91.0	8.1	0.46	0.34	0.088	—	3	57	2	61	373	36
	FG 40	98.4	1.1	0.34	0.073	0.079	11	—	—	0.3	0.3	0.8	0.1
	FG 43	98.8	0.36	0.15	0.43	0.21	19	0.1	3	1	0.5	13	0.7
Elis	Delepierre 2195	96.6	2.4	0.45	0.59	0.042	2	—	—	100	0.3	11	0.9
	Delepierre 2200	96.9	1.8	0.49	0.45	0.055	4	—	2	2,741	0.5	14	0.9
	Delepierre 2216	96.5	2.6	0.39	0.26	0.050	404	0.1	—	1,107	0.3	4	1
	Delepierre 2224	94.8	4.2	0.40	0.52	0.095	6	0.1	1	1	5	56	3
	FG 82A	95.7	2.7	0.57	0.99	0.086	4	0.4	—	0.3	2	4	1
Elis, Achaian <i>koinon</i>	AA.GR.22985	91.7	6.4	0.45	1.4	0.067	5	4	15	3	79	98	21
	AA.GR.23008	93.3	5.4	0.51	0.64	0.056	—	0.2	3	1	5	9	3
	FG 185	92.0	6.8	0.48	0.58	0.082	—	2	11	1	33	48	39
	FG 47	93.7	4.7	0.43	1.1	0.057	6	2	4	2	35	146	16
	FG 48	94.1	4.3	0.38	1.0	0.061	45	0.2	3	0.5	3	666	6
	FG 49	96.1	3.1	0.37	0.40	0.066	12	—	—	0.4	0.8	2	0.6
	FG 51	96.8	2.4	0.61	0.10	0.051	4	—	—	0.1	0.9	2	0.1
	FG 58	88.9	10.0	0.40	0.51	0.093	—	2	18	2	22	196	32
	FG 60	90.6	7.4	0.38	0.52	0.084	—	2	20	2	55	205	37
	FG 62	91.4	7.6	0.37	0.48	0.077	5	2	28	3	29	378	79
	FG 63	93.0	5.9	0.44	0.50	0.081	13	1	9	3	15	322	37
	FG 81	90.0	8.9	0.49	0.49	0.044	18	4	7	2	127	368	55
	FG 82	93.0	5.7	0.50	0.49	0.034	1,871	8	6	4	80	552	55
	FG 82A	95.4	2.8	0.57	1.1	0.096	7	0.3	—	0.4	2	4	1
	92.8	5.1	0.40	1.6	0.044	10	0.6	3	2	2	28	3	
Epidaurus, Achaian <i>koinon</i>	FG 88	97.3	1.7	0.59	0.29	0.052	1	0.5	4	1	3	47	1
	FG 89	98.6	0.79	0.43	0.10	0.016	5	0.5	—	1	0.4	101	—
	FG 90	96.5	2.7	0.45	0.19	0.14	1	0.6	—	0.1	0.6	8	0.7
	FG 91	93.3	5.5	0.61	0.60	0.051	1	0.5	4	0.7	2	0.7	61
	FG 91A	92.2	6.0	0.62	1.1	0.066	6	1	16	2	84	36	167
Heraia	FG 309	95.8	3.6	0.20	0.31	0.090	1	—	—	1	1	13	3
	FG 310	97.9	1.7	0.18	0.098	0.10	1	—	—	0.2	0.1	—	—
	FG 311	97.3	1.8	0.31	0.53	0.071	3	—	—	0.3	0.5	31	2
Kleitor	Delepierre 2304	94.6	4.5	0.45	0.22	0.082	7	1	2	2	6	676	2
	FG 303	97.3	2.1	0.24	0.23	0.044	89	—	—	6	3	257	0.9
	FG 304	92.5	6.6	0.36	0.50	0.056	34	9	9	5	45	18	5

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Kleitor, Achaian <i>koinon</i>	FG 30	96.2	3.0	0.52	0.22	0.038	11	—	3	0.5	9	35	5
	FG 30A	97.2	2.0	0.56	0.21	0.034	5	—	—	0.7	0.3	318	0.3
Leukas	Delepierre 1236	95.3	3.5	0.35	0.14	0.68	—	1	6	4	93	0.3	14
	Delepierre 1240	94.1	5.1	0.11	0.61	0.042	28	4	12	4	97	18	18
Mantineia	AA.GR.9813	95.2	3.3	0.36	0.54	0.15	324	1	3	13	166	3,571	2
	AA.GR.9814	93.7	4.3	0.23	1.4	0.23	13	0.6	5	7	4	59	3
	FG 329	94.1	5.2	0.42	0.15	0.096	18	5	7	2	20	60	4
	FG 330	98.0	0.45	0.28	0.98	0.23	15	0.1	—	1	1.0	56	1
	FG 331	96.2	3.6	0.12	0.11	0.0047	16	—	—	0.6	3	0.5	1
	FG 332	94.0	4.9	0.29	0.69	0.098	—	0.2	3	2	11	30	15
Megalopolis	FG 260	98.0	0.99	0.85	0.11	0.015	23	—	—	1	3	30	0.1
	FG 263	86.7	11.2	0.43	1.6	0.061	—	5	12	2	66	46	44
	FG 265	98.9	0.34	0.45	0.30	0.014	13	0.1	—	4	0.4	19	0.2
	FG 269	94.8	4.4	0.32	0.33	0.11	18	0.1	2	1	1	218	2
	FG 270	88.0	9.9	0.47	1.6	0.075	—	0.3	5	3	87	51	122
	FG 270A	93.9	4.5	0.58	0.91	0.051	115	2	5	13	15	107	36
	FG 345	96.2	2.8	0.46	0.41	0.11	13	2	13	2	24	49	3
	FG 347	95.3	4.0	0.33	0.31	0.062	14	2	24	2	28	43	3
Megalopolis, Achaian <i>koinon</i>	AA.GR.9716	92.3	5.5	0.37	1.8	0.052	—	1	28	2	48	77	13
	AA.GR.9719	91.1	5.5	0.47	2.8	0.049	—	1	8	1	34	31	30
Megara	FG 1211	98.4	0.80	0.49	0.10	0.023	1,639	0.7	3	2	2	593	—
	FG 1212	98.4	0.83	0.42	0.31	0.039	20	0.1	—	1	0.8	175	0.5
	FG 1213	96.3	1.8	0.65	0.53	0.020	5,864	2	6	9	15	585	1
Megara, Achaian <i>koinon</i>	AA.GR.9707	89.7	9.1	0.27	0.70	0.24	51	15	29	5	88	72	21
	AA.GR.9709	83.7	14.8	0.39	0.92	0.070	40	81	1,067	30	209	256	36
	FG 107	91.1	6.9	0.46	1.4	0.11	71	6	14	6	113	258	23
	FG 109	93.2	5.6	0.019	1.1	0.063	—	0.4	3	2	18	6	5
	FG 110	89.9	8.8	0.089	0.80	0.41	13	0.7	26	4	71	20	16
	FG 112	84.7	14.0	0.32	0.79	0.18	11	4	38	9	64	35	57
	FG 113	92.1	6.6	0.29	0.51	0.35	29	2	24	2	184	112	491
	FG 114	90.9	7.7	0.12	0.97	0.34	20	0.4	11	2	18	14	60
	FG 115	84.6	14.2	0.31	0.58	0.24	23	41	270	10	813	187	25
	FG 117	90.4	8.4	0.40	0.52	0.26	21	19	21	4	79	129	26
Messene	FG 118	90.4	8.1	0.43	0.95	0.11	19	3	17	11	42	89	21
	Delepierre 2247	93.8	4.9	0.16	0.66	0.44	—	1	9	0.6	24	1	3
	FG 1729	95.5	3.5	0.090	0.68	0.20	70	19	43	2	104	6	4
Messene, Achaian <i>koinon</i>	FG 1731	94.5	4.2	0.39	0.81	0.091	27	2	22	1	26	4	3
	FG 127	93.4	2.5	0.56	3.4	0.038	12	11	1	3	79	590	8
	FG 127a	96.4	2.9	0.55	0.090	0.036	—	—	—	0.4	0.7	2	0.2
Pallation, Achaian <i>koinon</i>	FG 186	95.4	3.8	0.36	0.25	0.037	86	1	2	1	4	21	4
	AA.GR.9728	89.8	9.5	0.27	0.42	0.10	12	0.7	25	2	9	20	22
	AA.GR.9729	90.2	8.9	0.38	0.26	0.12	28	0.7	37	3	97	131	40
Patras	AA.GR.9730	90.8	8.2	0.44	0.44	0.15	22	14	72	4	44	92	11
	Delepierre 1967	93.2	5.6	0.41	0.74	0.077	—	—	7	0.4	4	56	13
	FG 1092a	93.5	5.2	0.49	0.72	0.063	169	0.9	8	3	22	721	28
	FG 1190	95.5	3.8	0.45	0.28	0.026	—	—	1	—	1	0.2	5
	FG 1190A	95.1	3.4	0.60	0.55	0.092	2,793	0.7	2	2	5	364	11
FG 1192	91.6	7.2	0.42	0.66	0.043	—	2	37	2	51	826	30	

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Patras, Achaian <i>koinon</i>	AA.GR.96661	92.4	5.5	0.48	1.5	0.058	—	2	8	1	33	48	13
	AA.GR.9687	94.2	4.4	0.55	0.78	0.059	—	0.7	5	1	10	77	6
	AA.GR.9688	92.0	6.7	0.50	0.71	0.081	—	0.5	6	0.4	48	17	59
	AA.GR.9692	95.8	2.8	0.69	0.57	0.086	17	0.3	2	1	4	65	3
	AA.GR.9783	96.0	2.9	0.62	0.37	0.13	133	4	7	2	19	74	8
	FG 134	90.1	7.2	0.50	2.0	0.083	—	0.6	7	0.6	19	8	77
	FG 137	89.6	8.4	0.51	1.4	0.033	—	0.3	30	1	76	7	19
	FG 139	94.7	3.9	0.56	0.82	0.071	—	2	7	3	14	191	6
	FG 145	93.8	5.5	0.33	0.28	0.084	—	—	11	3	2	13	77
	FG 146	98.1	1.1	0.57	0.14	0.017	—	0.3	—	0.6	0.4	5	—
	FG 151	97.3	2.2	0.085	0.40	0.059	—	0.1	7	1	2	4	5
	FG 197	96.0	3.2	0.59	0.18	0.053	14	0.3	4	0.4	10	35	0.4
FG 198	94.4	4.8	0.62	0.20	0.038	—	0.5	6	2	11	29	7	
Sicyon	AA.GR.9752	94.7	4.3	0.28	0.56	0.11	—	1	6	2	27	54	10
	AA.GR.9756	94.3	4.6	0.41	0.69	0.058	14	0.4	3	6	82	18	14
	AA.GR.9758	94.1	5.0	0.38	0.51	0.072	—	1	8	2	40	6	11
	AA.GR.9775	92.0	7.1	0.32	0.45	0.11	40	3	4	2	71	285	49
	FG 1390	94.8	4.3	0.041	0.72	0.062	—	1	7	4	22	0.7	11
	FG 1392	94.7	4.6	0.052	0.59	0.040	15	4	9	4	46	9	9
	FG 1442	92.6	6.5	0.34	0.48	0.095	81	2	12	1	32	82	23
	FG 1443	94.1	4.9	0.38	0.44	0.093	82	6	7	112	22	681	25
	FG 1444	89.1	9.9	0.32	0.50	0.10	34	3	12	13	113	143	26
Sicyon, Achaian <i>koinon</i>	Delepierre 2012	96.3	2.6	0.56	0.47	0.063	—	0.4	2	2	3	78	2
	FG 163	97.9	0.83	0.29	0.93	0.039	—	—	—	0.4	0.5	23	0.5
	FG 164	98.0	0.91	0.27	0.65	0.15	—	—	1	1	4	2	1
	FG 165	97.1	2.2	0.66	0.11	0.018	—	—	—	1	0.5	23	0.1
	FG 195	96.2	2.4	0.68	0.57	0.098	—	0.2	2	3	5	129	3
Sparta	AA.GR.22997	91.0	5.8	0.55	2.6	0.042	—	2	9	1	50	77	17
	FG 1839	95.0	3.9	0.37	0.56	0.15	—	0.4	8	2	9	269	8
	FG 1842	96.8	1.9	0.46	0.70	0.12	—	—	2	0.4	0.9	39	1
	FG 1844	97.1	2.0	0.63	0.26	0.025	—	—	—	0.3	0.3	16	0.5
	FG 1953A	96.0	3.2	0.48	0.25	0.027	46	2	8	3	12	130	4
	K 3002	97.5	1.6	0.38	0.41	0.0014	—	—	—	4	8	152	0.1
	M 1349/ FG 1833bis	96.6	2.2	0.46	0.45	0.026	—	0.1	—	2	3	1,971	0.7
Sparta, Achaian <i>koinon</i>	AA.GR.9675	93.9	5.4	0.28	0.30	0.074	—	0.2	7	0.4	1	11	9
	AA.GR.9676	88.8	10.4	0.098	0.58	0.10	38	4	33	2	67	10	35
	AA.GR.9677	94.8	4.6	0.31	0.18	0.066	55	1	8	2	8	15	15
	FG 96	91.0	8.3	0.30	0.27	0.086	—	0.7	10	0.5	5	23	15
	FG 97	94.3	4.9	0.29	0.50	0.067	—	—	15	0.6	5	25	20
	FG 99	91.7	7.6	0.29	0.33	0.12	—	0.3	6	0.6	2	94	6
Tegea	FG 414	95.5	3.2	0.46	0.51	0.25	76	0.9	—	9	7	47	3
	FG 415	92.7	5.6	1.2	0.29	0.085	—	0.2	3	1	12	772	8
Tegea, Achaian <i>koinon</i>	AA.GR.9784	97.7	1.3	0.50	0.28	0.13	—	0.2	1	1	1.0	31	0.2
	AA.GR.9785	95.4	4.0	0.28	0.26	0.099	—	0.2	—	1	2	18	15
	FG 175	88.9	10.3	0.42	0.27	0.076	—	0.4	7	1	260	147	61
Thessalian <i>koinon</i>	FG 11	79.2	19.7	0.36	0.54	0.13	51	26	128	7	185	297	52
	FG 12	78.0	20.4	0.34	0.97	0.13	72	48	244	12	237	485	94
	FG 27	98.7	0.64	0.32	0.25	0.12	22	0.1	2	1	2	25	2

MARYSE BLET-LEMARQUAND

Athens	Babelon 760	92.0	6.4	0.32	0.91	0.095	28	3	19	3	38	2,047	25
	FG 218	97.2	1.9	0.094	0.30	0.56	12	0.2	14	1	9	35	2
	FG 219	98.8	0.042	0.055	0.57	0.53	10	—	—	1	0.8	4	0.3
	FG 220	98.5	0.021	0.037	0.79	0.61	—	—	—	0.3	0.4	3	0.2
	FG 259	98.2	0.18	0.15	0.86	0.60	23	—	—	1	2	44	0.4
	FG 260	97.2	0.076	0.094	1.8	0.83	—	0.1	—	0.6	1	2	0.3
	FG 261	99.6	0.040	0.0010	0.29	0.0051	12	—	—	1	0.2	0.3	0.4
	FG 276	93.1	5.2	0.33	1.3	0.054	5	0.4	11	1	22	69	17
	FG 339	96.7	2.0	0.48	0.51	0.088	219	1.0	5	82	11	1,362	6
Argos (alexander)	843-345	94.4	4.8	0.32	0.34	0.050	1	0.3	4	4	5	55	4
	843-346	95.6	3.0	0.57	0.78	0.060	12	0.2	1	3	3	50	2
	FG 726	96.2	2.6	0.42	0.76	0.061	15	0.3	2	1	3	30	4
	HS R3949	96.8	1.8	0.60	0.76	0.033	5	0.7	—	1	2	84	2
	HS R3950	94.8	4.3	0.34	0.46	0.046	6	0.5	7	3	5	106	4
	HS R3951	95.5	2.8	0.69	0.87	0.047	12	0.3	—	1	3	42	6
Corinth (alexander)	1972/1183	98.8	0.23	0.31	0.71	0.0003	18	—	—	3	0.5	3	1
	FG 576	97.7	1.2	0.44	0.53	0.049	26	—	2	2	2	456	1
	FG 590	99.2	0.25	0.30	0.29	0.0002	2	—	—	2	0.2	2	0.1
	FG 624	97.1	1.8	0.29	0.79	0.020	3	0.2	—	4	0.2	20	0.3
	R 4249	98.8	0.70	0.34	0.17	0.0022	7	0.1	—	3	0.1	2	0.2
Megalopolis (alexander)	FG 723a/ K2965	97.2	2.0	0.46	0.33	0.037	—	—	—	2	0.4	96	0.2
	HS R4052	97.5	1.6	0.52	0.32	0.019	18	0.3	2	19	2	506	1
	HS R4053	96.8	2.2	0.57	0.27	0.049	10	0.3	3	6	4	358	2
	HS R4057	96.0	3.0	0.32	0.50	0.083	—	0.3	2	2	8	186	6
Messene (alexander)	HS R4068	96.0	1.5	0.84	1.5	0.17	15	0.1	—	1	1	3	4
Sicyon (alexander)	FG 723B/ M5970	97.1	1.9	0.50	0.49	0.027	17	—	—	0.4	1	7	0.1
	HS.1973.1.60	97.0	1.8	0.47	0.76	0.027	8	0.5	2	3	8	37	9

GENERAL BIBLIOGRAPHY

ABBREVIATIONS

- BCD *Coins of Peloponnesos: the BCD Collection. Auction LHS 96, May 8-9, 2006*, LHS Numismatics Ltd., Zürich, 2006.
- BMC *Catalogue of the Greek Coins in the British Museum, 1873-1927*.
- CH *Coin Hoards*, Royal Numismatic Society, London, 1975-2010.
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- LIMC *Lexicon Iconographicum Mythologiae Classicae*, 1981-2009.
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- RPC *Roman Provincial Coinage*, London-Paris, 1992-.
- SNG *Sylloge Nummorum Graecorum*.

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