

## CLAY ANALYSES OF POTTERY PROVENANCE: SUCCESS ACHIEVED AND FURTHER QUESTIONS WAITING

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**Keywords:** *North Greek black and red-polished wares, other local workshops in the Northern Aegean and Black Sea, grey-polished and related ware.*

**Abstract:** *The first part of this note discusses the achievements of the jubilee in analysing the clay sources of main production centres of Greek fine pottery and the second sums up the results of study of the Grey and similar wheel-turned wares in the area of the northern Aegean and the Black Sea, while in the third part the modest results of study of other local glazed and banded classes of pottery, which lacks still similar satisfying analyses, reported in order to turn attention to this field of study.*

First I would like to express my gratitude to my friend for much expertise I gained from him on pottery production and trade links in Northern Aegean, Black Sea, East Greek and Anatolian sites; for the Black Sea and North Aegean especially, where our interests met, and also for his hospitality in Lyon. To many questions he brought sufficient answers in his papers and conference lectures<sup>1</sup>, but it would be beneficent if he could also help in the fields of more modest local wares in Thrace and in my Pistiros. The Pistiros Black, Red and Grey wheel-turned wares classified in Pistiros II<sup>2</sup> had nothing to do with Maroneia and Thasos<sup>3</sup>, Black Glazed cruder has visually parallels at Pernik at the time of Philipp II, some other classes show links with Olynthus, Eion and perhaps Amphipolis<sup>4</sup>, but without clay analyses these impressions remain only hypotheses.

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<sup>1</sup> For ex. DUPONT 2015.

<sup>2</sup> BOUZEK 2002.

<sup>3</sup> BLONDÉ & PICON 2003.

<sup>4</sup> BOUZEK 2003.

Grey wares were made across the Dark Age without interruption<sup>5</sup>, and their clay analyses might enable to distinguish particular workshops and their relations to other East Greek fabrics<sup>6</sup>. They also served as models for grey Thracian ware in the inland Balkans<sup>7</sup>. The pseudo-Cypriot amphorae are common at Apollonia<sup>8</sup>, at Olynthus and Pistiros as well (**Fig. 3**, cf. **Fig. 5**) They deserve to be studied, too. Perhaps they were containers of special food, as were the Red Ware amphorae at Pistiros<sup>9</sup>. The plain wares were also exported, and should be analysed<sup>10</sup>. The analysis of hand-made wares should also be attempted<sup>11</sup> and of various *lekanai*<sup>12</sup>. A specific area in NW Pontic served as place from which the wheel-made pottery technique came to the Carpathian cauldron<sup>13</sup>. The analysis of Archaic pottery advanced much<sup>14</sup>.

As clear in other fields, like in the area of Hellenistic relief pottery, the main exporters were only few, but nearly everywhere local potters also produced some relief bowls for the local market<sup>15</sup>. Especially important might be the analysis of the Mitrovica group of pitchers from Serbia and Bosnia (**Fig. 6**) and of other minor Archaic<sup>16</sup> and later groups, including those serving as containers of specific substances. A number of analyses of specific Archaic to Hellenistic classes of pottery in collaboration with Romanian scholars and Ukrainian and Russian colleagues in the area of the finds from the north-western and northern Black Sea confirmed that fine tableware of diverse provenance travelled; vases were collected, sold or presented as small souvenirs by the captain and the crew, but only as addition to the main cargo, which was different.

While examining one Dutch wreck in Sri Lanka waters anyone was happy to find Chinese porcelain, but the list of cargo in the Dutch insurance company mentioned large amount of tea and spices, and as an annexe some cists of Chinese porcelain. Statistics from the East India Company in London from 1786 to 1789 show that the total proportion of „chinaware” fluctuated between 1.6 and 2.6 % of the total sales of the company<sup>17</sup>. The situation in Classical Antiquity was similar, only the trade amphorae with wine were substantial part of the cargo, but of course anyone who had ships could transport anything to any port and the crew could make some extra profit with fine tableware.

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<sup>5</sup> ASLAN 2009; GEBAUER 1993; BAYNE 2000; NIKOV 2009; NIKOV 2014; IREN 2008; KOPYLOV 2009.

<sup>6</sup> AVRAM et alii (eds.) 2009; BOUZEK & DOMARADZKA 2009.

<sup>7</sup> ALEXANDRESCU 1978; CRIȘAN 1969, MOSCALU 1983; ROMSAUER 1991; SAMOILOVA 2005.

<sup>8</sup> PANAYOTOVA 2005.

<sup>9</sup> Cf. BOUZEK 2007, p. 220, fig. 9.

<sup>10</sup> Cf. ROTROFF 2006; BLONDÉ 2008.

<sup>11</sup> KASTANAJAN 1981; BOUZEK 2003; KOPYLOV 1957.

<sup>12</sup> LÜDORF 2000; LEJPUNSKAJA 1980.

<sup>13</sup> ALEXANDRESCU 2000, p. 138 - 173; COJA & DUPONT 1979; ROMSAUER 1991; cf. VANČUGOV 2004; BOUZEK 2014.

<sup>14</sup> Cf. COOK & DUPONT 1998; DUPONT 1983; DUPONT 2001; DUPONT 2015 etc.; cf. e.g. KERSCHNER 1997; VOIGTLÄNDER 1986.

<sup>15</sup> BOUZEK 2017; DUPONT & LUNGU 2010; VARBANOV 2012; VULPE & GHEORGHÎȚĂ 1976; SÎRBU 2009; TURCU 1976.

<sup>16</sup> BOŽKOVA 2002; CATLING 1998.

<sup>17</sup> BOUZEK 1990, p. 94.

## BIBLIOGRAPHY

ALEXANDRESCU 1978 - P. Alexandrescu, *Histria IV. La céramique de l'époque archaïque et classique (VII<sup>e</sup>-IV<sup>e</sup> s.)*, București, 1978.

ALEXANDRESCU 2000 - P. Alexandrescu, *L'aigle et le dauphin*, București, 2000 (notamment *Les modèles grecs de la céramique thrace tournée*), p. 138-173.

ASLAN 2009 - C. Aslan, *Grey Ware at Troy in the Protogeometric to Archaic Period*, in: *Pontic Grey Wares* (2009), p. 267-283.

AVRAM *et alii* (eds.) 2009 - *Pontic Grey Wares. International Conference Bucarest/Constantza*, Pontica 42 (2009), Suppl. 1.

BAYNE 2000 - N. Bayne, *The Grey Wares of NW Anatolia in the Middle and Late Bronze Age and Early Iron Age and their Relation to the Early Greek Settlements*, AMS 37 (2000).

BLONDÉ 2008 - F. Blondé, *Les céramiques d'usage quotidien à Thasos au IV<sup>e</sup> siècle avant J.-C.*, Etudes thasiennes 20, Athènes/Paris, 2008.

BLONDÉ & PICON 2003 - F. Blondé, M. Picon, *Recherches complémentaires en laboratoire sur quelques céramiques de Pistiros*, Studia Hercynia 7 (2003), p. 115-122.

BOŽKOVA 2002 - A. Božkova, *Pottery with Geometric Decoration and Related Wares*, in: *Koprivlen I*, Sofia, 2002, p. 133-151.

BOŽKOVA 2017 - A. Božkova, *The Pottery in Ancient Thrace*, in: J. Valeva *et alii* (eds.) *Companion to Ancient Thrace*, Oxford, 2017, p. 229-243.

BOUZEK 1990 - J. Bouzek, *Studies of Greek Pottery in the Black Sea Area*, Prague, 1990.

BOUZEK 1997 - J. Bouzek, *Greece, Anatolia and Europe in the Early Iron Age*, Jonsered, 1997.

BOUZEK 2002 - J. Bouzek, *The North Greek Wheel-Made Glazed Pottery in Pistiros I: Classification and Possible Sources*, in: *Pistiros II*, p. 149-182.

BOUZEK 2003 - J. Bouzek, *A Survey of Unglazed and Plain Pottery from Adžijska Vodenica II, Oikos A*, Studia Hercynia 7 (2003), p. 5-70.

BOUZEK 2007 - J. Bouzek, *Other Addenda to Pistiros I-II*, in: *Pistiros III*, Prague, 2007.

BOUZEK 2011 - J. Bouzek, *The Belozërka Fibulae in a Broader Context*, *Tyragetia* 20 (2011), p. 247-254.

BOUZEK 2014 - J. Bouzek, *Pre-colonisation in the Black Sea: The First Greek Pottery Finds in the Black Sea*, in: G. Tsetschladze *et alii* (eds.), *The Bosphorus Gateway: between the West and East, Proceedings of the 4<sup>th</sup> International Congress on Black Sea Antiquities*, BAR IS 2517, Oxford, 2013, p. 19-21.

BOUZEK 2017 - J. Bouzek, *Second-in-rank Local Producers of Megarian Ancient West and East, in the Aegean and Elsewhere*, in: *Festschrift Gates*, printing.

BOUZEK & DOMARADZKA (eds.) 2005 - J. Bouzek & L. Domaradzka, *The Culture of Thracians and their Neighbours, Proceedings of the International Symposium in Memory of Prof. Mieczyslaw Domaradzki, with a Round Table Archaeological Map of Bulgaria*, BAR IS 1350, Oxford, 2005.

BOUZEK & DOMARADZKA 2009 - J. Bouzek & L. Domaradzka, *Thracian Grey Ware in Bulgaria: Pistiros and Other Sites*, in: Avram *et alii* (eds.) 2009, p. 199-222.

BOŽKOVA 2005 - A. Božkova, *Greek Archaic Pottery at Koprivlen*, in: *Thracians and their Neighbours*, in: Bouzek & Domaradzka (eds.), 2005, p. 85-90.

CATLING 1998 - H.W. Catling, *The Typology of PG and subPG Pottery from Troia and its Aegean Context*, *Studia Troica* 8 (1998), p. 151-187.

ČIČIKOVA 1984: M. Čičikova, *Antična keramika*, in: *Seuthopolis I*, Sofia, 1984, p. 43-83.

COJA & DUPONT 1979 - M. Coja & P. Dupont, *Histria V. Ateliers céramiques*, București/Paris, 1979.

COOK & DUPONT 1998 - R. Cook & P. Dupont, *East Greek Pottery*, London/New York, 1998.

CRIȘAN 1969 - I.H. Crișan, *Ceramica daco-getică cu specială privire la Transilvania*, București, 1969.

DOMARADZKI 2002 - M. Domaradzki, *Grey Pottery from Pistiros, Part I*, in: *Pistiros II*, Prague, 2002, p. 189-208.

DUPONT 1983 - P. Dupont, *Classification et détermination de provenance des céramiques grecques orientales archaïques d'Istros, Rapport préliminaire*, *Dacia N.S.* 27 (1983), p. 19-43.

DUPONT 2001 - P. Dupont, *Les ateliers primordiaux des coupes ioniennes à la lumière des trouvailles de la mer Noire*, in *Second International Congress of Black Sea Antiquities*, Bilkent University Ankara 2001, abstracts, p. 45-47.

DUPONT 2015 - P. Dupont, *Ateliers céramiques et réseaux d'échange dans les Sud-Ouest de la mer Noire à l'époque classique et au début de l'époque hellénistique*, *BCH* 138 (2015), p. 387-428.

DUPONT & LUNGU 2010 - P. Dupont & V. Lungu, *Hellenistic Mouldmade Bowls from Kelainai*, in: *Contacts, Migrations and Climate Change*, conf. Prague 2010, 13.

GEBAUER 1993 - J. Gebauer, *Verschiedene graue Waren, Ausgrabungen in Assos*, *AMS* 10 (1993), p. 73-100.

IREN 2008 - K. Iren, *The Necropolis of Kyme Unveiled*, in: *Euergetes, Festschrift Prof. H. Abasoğlu*, Antalya, 2008.

KASTANAJAN 1981 - E.G. Kastanajan, *Lepnaja keramika bosporskich gorodov*, Leningrad, 1981.

KERSCHNER 1997 - M. Kerschner, *Ein stratifizierter Opferkomplex des 7. Jh. aus Ephesos*, *Oesterreichische Jahrbücher* 55 (1997), p. 85-226.

KOPYLOV 1957 - V.P. Kopylov, *Lepnaja keramika Elizavetskogo mogilnika na Donu*, *SA* 2 (1957).

KOPYLOV & ANDRIANOVA 2009 - V.P. Kopylov & N. Andrianova, *La céramique grise des monuments des VII<sup>e</sup> – I<sup>er</sup> tiers du III<sup>e</sup> s. av. J.-C. à l'embouchure du Tanaïs*, *Pontica* 42 (2009), Suppl. 1, p. 191-196.

LEJPUNSKAJA 1980 - N.A. Lejpunskaja, *Luterii iz Ol'vii*, *Arkeologija Kiev* 33 (1980), p. 32-46.

LEJPUNSKAJA 1981 - N.A. Lejpunskaja, *Keramičeskaja tara Ol'vii*, Kiev, 1981.

LÜDORF 2000 - G. Lüdorf, *Die Lekanis, Typologie und Chronologie einer Leitform attischer Gebrauchskeramik des 6. – 1. Jh. v. Chr.*, Rahden/Westf., Leidorf, 2000.

MOSCALU 1983 - E. Moscalu, *Ceramica traco-getică*, București, 1983.

NIKOV 2009 - K. Nikov, *La céramique monochrome en Thrace et ses prototypes anatoliens, Problèmes de chronologie*, *Il Mar Nero* 6 (2009), p. 47-55.

NIKOV 2014 - K. Nikov, *Grey Monochrome Pottery from Apollonia Pontica*, Veliko Târnovo, 2014.

PANAYOTOVA 2005 - Kr. Panayotova, *Amfori Kiperski tip ot Apollonia Pontica*, *Studia archaeologica*, 2005.

ROMSAUER 1991 - P. Romsauer, *The Earliest Wheel-turned Pottery in the Carpathian Basin*, *Antiquity* 65 (1991), p. 358-387.

ROTROFF 2006 - S. Rotroff, *Hellenistic Pottery, The Plain Wares, The Athenian Agora XXXIII*, Princeton, 2006.

SAMOILOVA 2005 - T.L. Samoilova, *The Getae and Tylis in Hellenistic Age*, in: Bouzek & Domaradzka (eds.) 2005, p. 239-244.

SÎRBU 2009 - V. Sîrbu, *Bols gèto-daces à décor en relief et représentations figuratives*, in: V. Sîrbu & L. Cristian (eds.), *Miscellanea Historica et Archaeologica in Honorem I. Cîndea*, Brăila, 2009, p. 19-31.

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SÎRBU, NICULIȚĂ & VANCIUGOV 2005 – V. Sîrbu, I. Niculiță & V. Vanciugov, *Le sud de Budgeac au 1<sup>er</sup> millénaire av. J.-C. (découvertes archéologiques et interprétations historiques)*, in: Bouzek & Domaradzka (eds.), 2005, p. 51-68.

SPARKES & TALCOTT 1970 –B.A. Sparkes & L. Talcott, *Black and Plain Pottery of the 6<sup>th</sup>, 5<sup>th</sup> and 4<sup>th</sup> centuries B.C.*, The Athenian Agora XII, Princeton,1970.

TURCU 1976 - M. Turcu, *Les bols à reliefs des collections du Musée d'Histoire du Municipipe de Bucarest*, Dacia N.S. 20 (1976), p. 199-204.

VANČUGOV 2004 – V.P. Vančugov, *Drevnejšie fibuly vostočnoj Evropy*, Thracia Pontica 6.2 (2004), *In Honorem Mihail Lazarov*, p. 227-228.

VARBANOV 2012 - V. Varbanov *Late Hellenistic Bowls With Reliefs from the Ruse District*, *Archaeologia Bulgarica* 16 (2012), p. 59-76.

VOIGTLÄNDER 1986 - W. Voigtländer, *Zur archaischen Keramik von Milet*, *IstMitt* 31 (1986), p. 35-56.

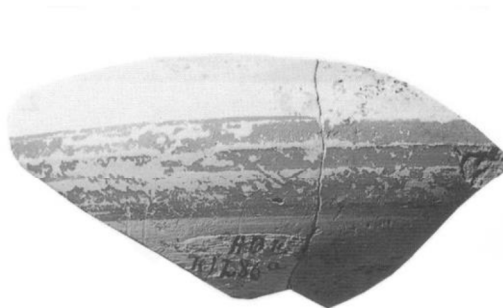
VULPE & GHEORGHÎȚĂ 1976 - A. Vulpe & M. Gheorghîță, *Bols à reliefs de Popești*, Dacia N.S. 20 (1976), p. 167-198.



**Fig. 1. Bowl of North Greek Black Glazed A fabric from Pistiros.**



**Fig. 2. Bowl of North Greek Red Glazed A ware from Pistiros.**



**Fig. 3. Fragment of pseudo-Cypriot vase with red band on white slip.  
Pistiros.**

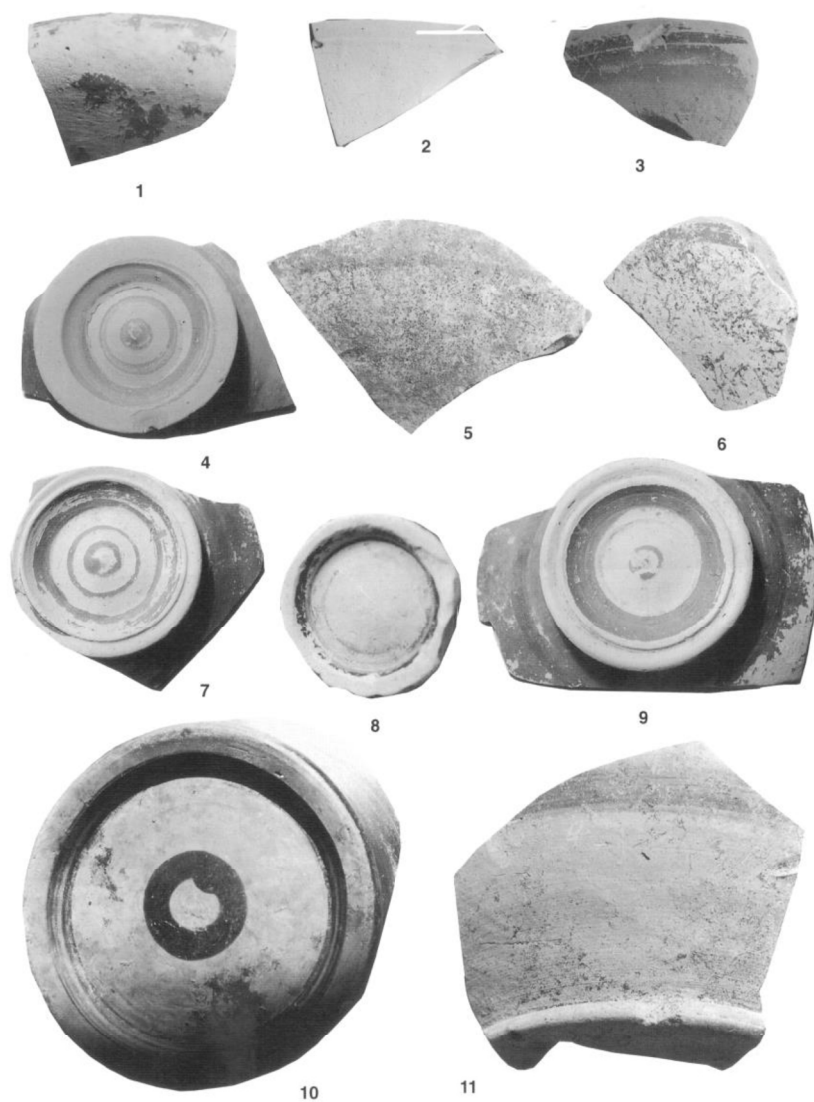


Fig. 4. A selection of grey, bichrome and banded wares fragments from Pistiros.



Fig. 5. Small pseudo-Cypriot amphoriskos in the National museum, Prague, from Kerch.



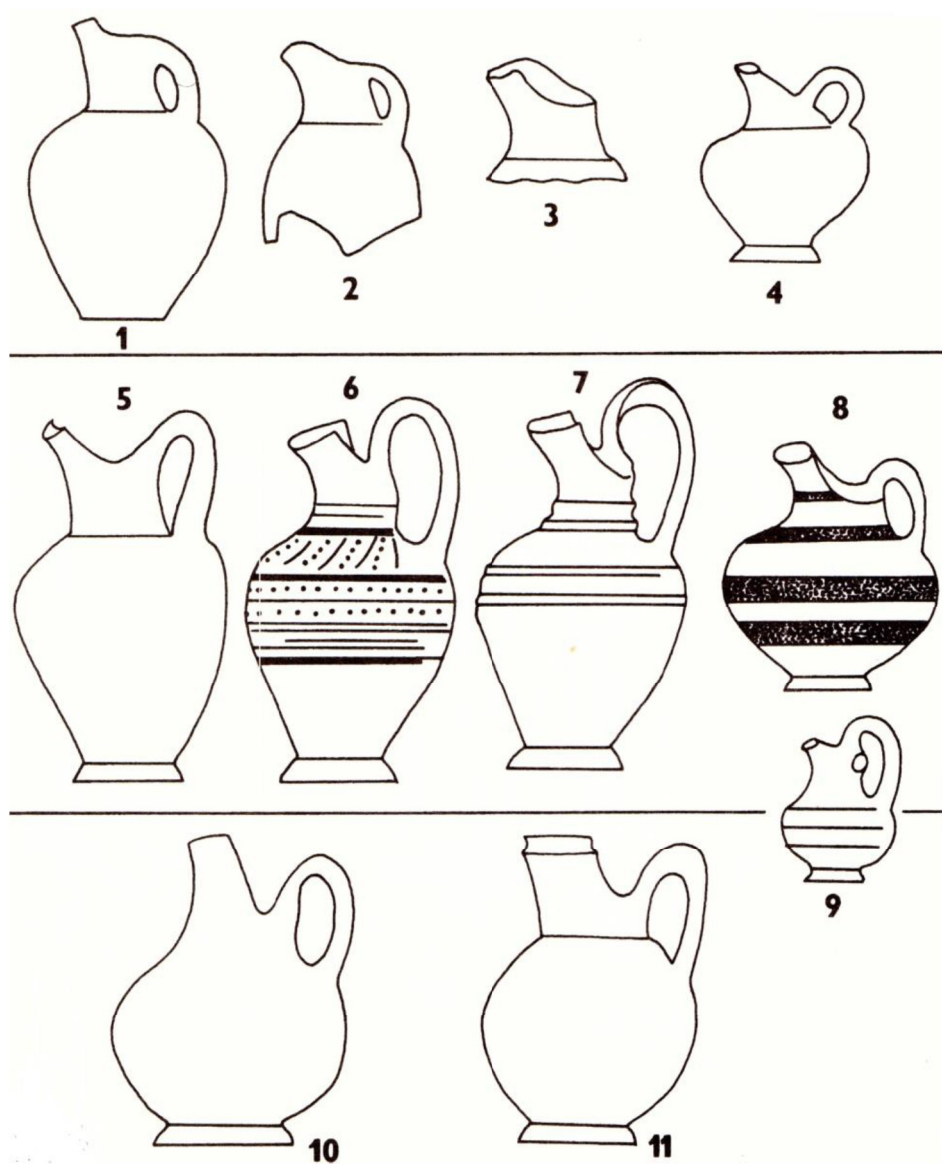


Fig. 6. The Atenica oinochoe (no. 8) and parallels: 1-5 - Corinth, 6 - Kodedas - Berat, 7 - Sindos, 9 - Lisjevo Pole, 10 - Vitsa Zagoriou, 11 - Čimanek (after Parović - Pešikan, and Bouzek 1997).