COME AND DINE WITH ME...
EARLY ROMAN LUXURY GLASS TABLEWARE FROM BERENIKE — NEW EVIDENCE FROM THE HARBOR AREA AND TRASH DUMPS

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Abstract: The harbor of Berenike on the Red Sea coast of Egypt was a major transit point in the long-distance trade of luxury commodities between the Roman Empire and the Indian Ocean Basin. The heyday of the commerce and the prosperity of the port lasted from the 1st to the mid-2nd century AD. A huge quantity of commodities passed through the port, imported not only for the purpose of exchange, but also for self-consumption. Glassware was among them. The high proportion of wares of high quality and exceptional esthetic value is quite extraordinary, even by modern standards. These wares highlight the position of Berenike in the trade, but they also showcase the city’s wealth and the great demand for luxury glass that existed there in the first centuries of the Roman Empire.

Keywords: Berenike, Indo-Roman trade, Periplus Maris Erythraei, early Roman glass, polychrome cast glass, colorless glass

Following the annexation of Egypt by Augustus in 30 BC Rome gained not only access, but also control over the enormously profitable trade routes, connecting the Mediterranean world with the Red Sea and the Indian Ocean regions. A great deal of information about the organization and management of overseas trade and ports comes from papyrological, epigraphic and a few classical literary sources, which also and perhaps foremost, showcase the impressive array of precious luxury commodities, brought to and sold at these harbors.

According to Strabo (Strab. 2.5.12), Pliny the Elder (Plin. Nat. 6.101–106) and the Periplus Maris Erythraei (hereafter PME, 1–4), the anonymous mid-1st century AD coastal navigation manual and merchant’s compendium, there were two ports on the Egyptian Red Sea that played a key role in the long-distance maritime trade between the Roman Empire and the Indian Ocean basin: Berenike and its sister port of Myos Hormos (modern Qusair al-Qadim). The trade passing through Berenike moved in two directions.
The long journey for a wide variety of merchandise from all the Mediterranean started from Alexandria, which was “not only the receptacle of goods, but also the main source of supply to the Roman world” (Strab. 17.1.13). Valuable cargo, together with supplies for ship crews and the local population of harbor towns, was loaded on river barges and shipped along the Nile up to Coptos, just north of modern Quft. At that time it was an important base for commercial business and the starting point of two well-established trade routes, leading from the Nile Valley across the Eastern Desert, either to Myos Hormos or Berenike. When caravans of donkeys and camels reached the ports, the goods would be off-loaded and stored in warehouses, or else directed immediately onto the ships to await favorable winds, from October to April, which would bring the vessels to India taking advantage of the monsoon winds that facilitated sailing to and from India (Strab. 2.118 and 17.798; Plin. Nat. 6.101; PME 57). On the return journey, in May and June (PME 14, 39, 49, 56), a wide range of precious products from India, Arabia and Africa were unloaded at the harbor. Commodities brought for local consumption were stored for the most part in warehouses in the port. The traded goods were sent to Coptos and transferred via the Nile to Alexandria, and subsequently to Rome and other centers of consumption (for exports of ordinary and more costly items from the Roman provinces around the Mediterranean, and an impressive range of consumable imports from the Red Sea–Indian Ocean littoral into the Mediterranean world via the Red Sea ports, see PME 3, 4, 6–13, 17, 27, 29, 32, 36, 39, 48, 49; Plin. Nat. 5.11, 12.14, 37.78; Casson 1989: 39–43; Seland 2010; Sidebotham 2011: 223–245 and further references). The role of Berenike as an important administrative headquarter for the Roman authorities, as well as a consumer and distributor of a wide variety of goods, is reflected in the rich archaeological material (for information on the site and results of earlier and ongoing excavations, see Sidebotham and Wendrich 1995; 1996; 1998; 1999; 2000; 2007; Sidebotham, Hense, and Nouwens 2008: 177–185; Sidebotham and Zych 2010; 2011a; 2011b; 2017; forthcoming). It shows that the heyday of the international commerce, by the same token also the prosperity of Berenike, lasted from the 1st century AD to the mid-2nd century AD. At that time Berenike became an extremely cosmopolitan place, an international marketplace, targeted by merchants of all ranks trading in a wide variety of prestigious and exotic goods (Strab. 17.1.45; Plin. Nat. 6.26.103; Sidebotham 2011: 68–86).

**GLASS AND THE PERIPLUS**

Glass was one of the regularly traded goods between the Mediterranean and the East [Fig. 1]. In contrast to many commodities mentioned in textual sources, which are often not present in archaeological remains, glass has survived alongside pottery, in varying quantities, on many sites along the East African, Arabian and Indian coasts. For glass, which is referred to in the *PME* by three different phrases: “several sorts of colored glass” (6, 7, 10, 11, 17), “glass vessels” (39), and “unworked glass” (48, 49, 53, 56; see also Casson 1989: 20–23, 40–41, 111–112, 126–127; Stern 1992: 113),
the archaeological evidence is the most closely compatible to the written sources.

In Egypt, quantities of early Roman glassware have turned up not only at Berenike (Hayes 1995; Nicholson 1998; 1999; 2000; Nicholson and Price 2003; 2007; Kucharczyk 2011), but also at Quseir al-Qadim (Meyer 1992: 15–42; Peacock 2011: 57–72; for information about the site and results of recent excavations, see Peacock and Blue 2006; 2011). Extensive evidence of glass material of a similar kind has been forthcoming from stations and small fortlets in the Eastern Desert: Maximianon (modern Wakalat al-Zarqâ), Krokodilô (modern al-Muwayh), Kainé Latomia (modern Umm Balad), as well as Didymoi (modern Khashm el-Minayh, see Brun 2003; 2011) and the sites at Gebel Abu Dokhan (ancient Mons Porphyrites, see Bailey 2007).

Beyond the Roman imperial frontier, findspots of glass in East Africa include Axum (Morrison 1989: 194–197, 206) and Adulis (Zazzaro 2013: 82–87). A remarkable assemblage of early Roman mosaic glass was excavated at Heïs (ancient Moundou) in the Horn of Africa (PME 6,9; Casson 1989: 126–127; Stern 1993). Many of the glass types mentioned in the PME have been reported from excavations in the Arabian Peninsula (De Maigret and Antonini 2005: 71, Fig. 51:11–12; Nehmé, al-Talhi, and Villeneuve 2010: 215–216; Al-Ansary 1981: 80–81), including the extensively excavated Qané (Qani), an important Indian Ocean emporium on the southern coast of Arabia (modern Yemen, see Salles and Sedov 2010: 305, Pl. 124:730) and the Omani port of Khor Rori (PME describes it as the ancient Moscha Limên, see Lombardi 2008: 404–406).

Fig. 1. Map of the Indian Ocean in Roman times showing major sites which have yielded early Roman glass (Drawing and digitizing G. Majcherek)
A wealth of early Roman glass comes from important findspots bordering the Gulf: el-Dûr (Emirate of Umm al-Qaiwain, UAE, frequently, but not securely identified with the Parthian Gulf emporium of Omana, mentioned in PME [36], see Whitehouse 1998; 2000), Kush (modern Ras al-Khaimah, UAE, see Price and Worrell 2003: 153–154, Fig. 2:1–6), Bidya (Al Tikriti 1989: 108, Pl. 82) and the inland sites of Mleiha (Emirate of Sharjah, UAE, see Potts 1990: 264–271; Jasm 1999: 79–80, 83, Fig. 20), and a tomb at Dibba al-Hisn (Jasim 2006: 221–223). First-century Roman glass was found also on the island of Bahrain (Boucharlat and Salles 1989: 110–122; Nenna 1999b; Andersen 2007: 22–84).

Archaeological evidence from India, substantiating the PME statement, comes mostly from Arikamedu (ancient Podoukê; PME 60), which has yielded abundant glass remains, including finished glass objects, but first of all the raw glass ingots, beads and waste from bead-making (Sen and Chaudhuri 1985: 151–164; Stern 1991; Francis 2004: 448–530). The second most important Indian site to evidence early Roman glass material in the material, including mosaic glass, is Pattanam (generally identified with the ancient port of Muziris; PME 49, 54, 56; Cherian and Menon 2014: 66–71, 82–84). The PME lists raw materials and glass vessels among the Roman goods imported to Barygaza (modern Broach, PME 49, 56.19) and Barbarikon (PME 39.9) in the Indus delta. It is not possible to omit the evidence from Taxila (Marshall 1951/II: 683–690; 1951/III: Pl. 209:i,j,k,l,n and Pl. 210; Sen and Chaudhuri 1985: 156, 162–163, 183–184, Fig. 19), as well as the spectacular glass vessels discovered in a cache at Begram (Cambon 2010; Whitehouse 2012: 54–55). Early Roman luxury glassware even ended up in China (Taniichi 1983: 83–85, 102–105; Laing 1991: 109–112; Borell 2010: 127–129).

**EARLY ROMAN LUXURY GLASS TABLEWARE FROM BERENIKE**

The exceptionally large glass assemblage of early Roman date from Berenike, representing a wide variety of vessel types, shapes, manufacture and decorative techniques and colors, not only provides the most vivid picture of glass exported from the Roman world, but above all testifies to the emporium’s wealth and highlights its position in the “global” trade of its day. Its volume reflects a huge demand for luxurious and highly decorated wares, not only by the elite consumers — a small segment of the port’s affluent residents, but also by a much wider clientele, certainly constituting the largest market for these goods. Buyers obviously appreciated the spectacular quality and esthetic value of glass vessels, their sophisticated decoration and resemblance to precious and semiprecious colored and naturally veined stones, such as banded agates (onyx and sardonyx), and crystal, rare and valuable materials coming chiefly from India, from which expensive and ostentatious vessels were carved in the Imperial period (PME 49, 56; Stern 1997; Sidebotham, Hense, and Nouwens 2008: 181; Sidebotham 2011: 238).

The collected archaeological evidence offers a glimpse into the dinnerware sets in use in the houses of the well-to-do.
residents of Berenike, who even though living on the fringes of the Empire, craved for a substitute of the luxury enjoyed by the Roman aristocracy. However, not all the high-status glass vessels that reached the site were used routinely for everyday dining. They could have acted as showpieces, a symbol of political prestige to be displayed on official occasions and during informal dinners, the objective being to show off the host’s wealth and to impress guests.

Glass excavated at Berenike was manufactured in the glasshouses of Italy and the Eastern Mediterranean. In the case of mosaic and colorless glass, Alexandria famous for its glasshouses is a prime candidate, although surprisingly small numbers of luxury glass of late Hellenistic and early Roman date have been reported from regular excavations in the city. The evidence for this production in Alexandria is still vague (for a list of finds, see Kucharczyk 2014: 29, Note 2). It is related in particular to the colorless tableware, characteristic of the Flavian–Trajanic period. The common opinion among researchers that they were produced in Alexandrian workshops does not find confirmation in already published material from the city. This category of glass is still a “big absentee” in assemblages, at least from Kom el-Dikka, the biggest archeological site in Alexandria (for the most recent discovery of the first fragment of rim with an overhang at the edge, coming from a bowl, see Kucharczyk 2016: 96, Fig. 6:2).

**NEW EVIDENCE OF LUXURY GLASS TABLEWARE FROM THE HARBOR AREA OF BERENIKE**

Recent archaeological investigations in the southwestern bay of Berenike recorded essential, if somewhat sketchy, evidence of the early Roman harbor and docking facilities, where the actual customs house and warehouses for incoming and outgoing goods may well have been located (BE09-54 and BE09-55) [Fig. 2] (Sidebotham and Zych 2011b; see also Zych 2017, in this volume). Public buildings and offices of high-ranking officials: the military commander, harbor stewards etc. may have been situated on the high ridge surrounding the bay, even more likely the premises of Roman naukleroi and emporoi.

They were poorly constructed of local materials, like almost everything in Berenike, mainly of fossil coral heads, cut blocks of rock gypsum and sun-dried mud bricks. A sizeable quantity of lapis specularis (a kind of transparent gypsum that forms crystal sheets, which split appropriately can be fitted as window panes) and some flat panes, apparently produced in the cast or roller-molded technique characteristic of the early Roman period, excavated in this area, will argue in favor of the existence of this architecture. Windowpanes were likely to have been set in wooden frames, which are now lost, and mounted in small openings. In the dry desert conditions at Berenike, window glass would have been used generally to let in light and to provide essential protection against strong winds, prevent draft and keep out the rain (Kucharczyk 2011: 88–89, Fig. 9-1). In Egypt, evidence of the use of lapis specularis in an early Roman context came from a funerary hypogeum in Marina el-Alamein, where a glass panel of considerable size may have closed off one of the main burial niches, Zych 2010: 335, Note 3, Fig. 4).
In view of the early Imperial activity known to have taken place in the harbor, the presence of glass in this area is of particular interest, demonstrating as it does that luxury vessels, alongside a lesser grade of undecorated dining wares made of cheap green glass, were not something unusual in Berenike already in the Augustan period. It is then that the town catapulted to a position of great affluence and prosperity, and this process undoubtedly found expression in the glassware.

The glimpse that we get of the tableware of this period, as far as the glass is concerned, begins with polychrome cast vessels, the most attractive and finest luxury wares of this time. Apart from fragments with yellow spirals, embedded in a variegated matrix of light and dark blue, and a flower-like motif, consisting of irregular circles, filled with opaque yellow, light green and red dots (Kucharczyk 2011: 84, 94–95, Cat. Nos 2–3, Figs 9-4, 9-5, 9-6:2,3), there is also a monochrome laced bowl [Fig. 3:1–3; Fig. 8 top row]. This product, one of the most characteristic ones of the Italian glass workshops of the Augustan period, is very seldom reported from the Eastern Mediterranean. In Egypt, save for Berenike (Kucharczyk 2011: 84, 94–95, Cat. No. 1, Figs 9-3 and 9-6:1), similar examples have been reported only from Quseir al-Qadim (Meyer 1992: 35, Pl. 12:300–301) and Tebtynis (unpublished). Such vessels are also present in the Graeco-Roman Museum in Alexandria (Nenna 1999a: 53, Note 2).

The content of this assemblage shows that the dining tables of Berenike in the Flavian period were replete with colorless tableware, both cast and blown. It was
Fig. 3. Selection of early Roman glass from the harbor area: 1–3 – mosaic glass; 4–8 – cast colorless vessels (PCMA Berenike Project/drawing R. Kucharczyk; digitizing E. Czyżewska-Zalewska, M. Momot)
Fig. 4. Selection of early Roman glass from the harbor area: 1 – footed bowl; 2–7 – variously shaped and decorated beakers (PCMA Berenike Project/drawing R. Kucharczyk; digitizing E. Czyżewska-Zalewska)
Come and dine with me… Early Roman luxury glass tableware from Berenike…

EGYPT

Considered as a substitute for vessels made of rock crystal, which became the most fashionable of hardstones among Rome’s wealthy at that time. Pliny was thinking of these glasses when he wrote that “the most highly valued glass is colorless and transparent, as closely as possible resembling rock-crystal” (Plin. Nat. 36.199, 200 and 37.9; see Strab. 16.2.25, where he describes such vessels as: “crystal look-alikes”). The high proportion of such glass at Berenike is quite extraordinary (Hayes 1995: 37–38; Nicholson 1998: 282–285; 1999: 238; 2000: 151–152; Kucharczyk 2011: 85–87, 90–91). It is embodied principally by drinking vessels, and vessels for serving and consuming food and liquids. Next to polychrome glass, they are emblematic of Berenike.

Plentiful in this collection are deep and shallow dishes and bowls of varying sizes, on a high or low base ring, made both with and without an overhung edge [Fig. 3:4–6]. They often received a high-quality, elaborate facet-cutting, either covering the entire exterior or confined to the edge of the rim and base (Kucharczyk 2011: 86–87, 96–97, Cat. Nos 15–17, Fig. 9-9:15–17) [Fig. 3:7]. Of particular interest is a hemispherical footed bowl, decorated with fine cut decoration, a shape with no parallels in the published glass material from Egypt [Fig. 4:1]. Included in this category are also truncated conical beakers and cups, either tall and narrow, or short and wide, with several schemes of facet-cut decoration above and below the zone of faceting [Fig. 4:3–5].

Other types of drinking vessels encompass, apart from numerous conical and cylindrical beakers with cut-off rims and indents, simple horizontal lines or grooves [Fig. 4:2,6], also a mold-blown truncated conical specimen with almond-shaped bosses. Such vessels rose to popularity during the Flavian period (Kucharczyk 2011: 87, 98–99, Cat. Nos 20, 24,25, Fig. 9-12:20, 24, 25; Cat. No. 20: Isings 1957: Form 31) [Fig. 4:7]. It is significant that this type of decorated tableware, attested in many parts of the Roman world, is almost non-existent in Egypt. Similar fragments have been published only from Medinet Madi (Silvano 2012: 63, Pl. XLI:849–850; for a detailed discussion of this type and its distribution, see Stern 1995: 103–108; Whitehouse 2001: 13–14).

Colorless drinking vessels are supplemented by bottles and flasks for holding and serving beverages, often graced with cut decoration [Fig. 5:1–2]. The red wine and transparent colorless glass created a particularly elegant effect (Kucharczyk 2011: 87, 98–97, Cat. Nos 18, 19, Fig. 9-12:18,19).

LUXURY GLASS TABLEWARE FROM THE EARLY ROMAN AND LATE TRASH DUMPS

The early Roman luxury glass excavated in the harbor area is but a minute fraction of the glass excavated in various parts of the site. Their significant presence has been observed in the early and late Roman trash dumps located in the northwestern part of the residential quarter of the late period.

In the early Roman trash dump (BE11-76) one cannot disregard the existence of a considerable quantity of both
Fig. 5. Selection of early Roman glass: 1–2 – bottles, finds from the harbor area; 3–6 – cast colorless bowls; 7–9 – beakers with cut decoration, the bowls and beakers from the early Roman trash dump (PCMA Berenike Project/drawing R. Kucharczyk; digitizing E. Czyżewska-Zalewska)
cast and blown colorless glass. This group contains a wide range of bowls and plates with an overhung edge [Fig. 5:3–6], conical beakers [Fig. 5:7–9] and bottles [Fig. 6:1–4], either plain or with a wide variety of cut decoration, ranging from simple grooves and finely abraded lines to a complex and elaborate network of facets (Kucharczyk 2011: 104–105, Cat. Nos 47–50, Fig. 9-22:47–50).

Beside the colorless specimens there are some brilliantly colored vessels. Among them is a small fragment of a ribbed bowl made of amber glass (not illustrated). Its occurrence is particularly striking, as such vessels, thought of as a typical Italian product of the Augustan period, are very rare in the eastern Mediterranean. The number of this type of bowls, made of strongly colored and polychrome glass,
remains in stark contrast to the naturally colored monochrome examples, representing one of the commonest glass vessel finds on the site. Further pieces in this collection belong to a cobalt blue bottle, remarkable for its floral gilded decoration, which is not sandwiched between two fused layers of glass. It features a large multi-pointed (vine?) leaf and a stem, with opposed pairs of lozenge-shaped leaves [Fig. 6:5]. The brilliance of the gold leaf, contrasting boldly with the dark color of the vessel, produces an eye-catching effect (Kucharczyk 2011: 89–90, 102–103,
Fig. 8. Selection of early Roman mosaic glass fragments: top row, glass from the harbor area; middle and bottom rows, glass from the late 4th–6th century trash dump (PCMA Berenike Project/photos R. Kucharczyk, digitizing E. Czyżewska-Zalewska, M. Puszkarski)
The glass discussed in this paper, representing only a very small fraction of all the early Roman glass already found at Berenike, contributes to the study of already existing material from the site. It confirms, not unexpectedly, that the emporium was a substantial consumer of glass, of which a large amount can be described as luxury tableware. It was the most fashionable glass of its time, encompassing principally drinking vessels and vessels for serving foods and liquids. The brilliantly colored specimens, either monochrome or polychrome, as well as the colorless ones, often with elaborate facet-cut decoration, taken together with mold-blown vessels, combined with fine-quality pottery and copper-alloy tableware (fragments of handles and rims suggest the existence of these; M. Hense, personal communication), made up a quality dinnerware set for both formal and more private dinners and gatherings, which were the ideal occasion to show
off wealth and the owner’s tastes. So far, none of this evidence can be tied in with specific, individual users, but it will not be a great leap of imagination to think that the members of the Roman imperial court known to have resided in Berenike, as well as representatives of Roman governance in Egypt, responsible for the smooth operation of this major harbor of the early Imperial period, would have not only expected, but also taken the necessary steps to furnish their table with the kind of dinnerware that they were used to at home. And they would have enjoyed just as much showing off the centerpieces of their table, to be viewed and admired by guests, friends and business associates, while highlighting their affluence and social standing.

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163
PAM 26/2: Special Studies


Come and dine with me… Early Roman luxury glass tableware from Berenike...

EGYPT


