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## CHAPTER 7

# GLASS OBJECTS

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### 7.1 Introduction

Glass, a relatively late arrival in the ASW2 sequence, represents a great technological advance over earlier objects of semiprecious stone, metal or pottery in that it is easier to manipulate and less labour-intensive to produce. This development is particularly true of the later development of blown glass which enabled mass production of a variety of forms and sizes. A further advantage of glass, as indicated by Harden (1987: 1), is that its surface is more or less impervious to 'normal household soiling agents' and therefore can be cleaned efficiently and quickly. In addition, glass objects have the advantage, if coloured, of being visually very similar to those made of semi-precious or precious stone. Glass bangles, ring and beads are clearly examples of the latter phenomenon. Just over five thousand glass objects were recovered from trench ASW2, weighing a total of 1479.72 g (see Table 7.1). The most numerous object category was beads, representing a total count of 4,897 examples and a weight of 733.46 g, with vessel fragments second with 443 examples and a weight of 401.6 g. Unformed and ingot glass represents the third largest group with 96 examples weighing 214.87 g, while rings, bangles and other objects have a combined count of 98 and a weight of 44.13 g. In terms of phasing, beads are the earliest occurring objects of glass, having been found in period J, although an example of a glass ring was found in period I. The earliest glass vessels were found in period G along with the earliest example of unformed glass, but period F saw a great increase in terms of glass categories with the recovery of examples of glass vessels, hair curls, ear reels, rings, bangles, beads, unformed glass and even an ingot. This pattern of representation is continued in period C, D & E with the addition of a glass kohl stick but declines in period B.

The glass objects from ASW2 represent an extremely significant artefact group as they straddle a period from the fifth century BC to the eleventh century AD, allowing us to form a typology and make comparisons with other sites. In particular, the identification of Eastern Mediterranean glass vessels of the first century BC to first century AD ties in well with the presence of metal and ceramic imports from the Graeco-Roman world, strengthening our understanding of the early Indian Ocean trade. In parallel, the identification of Persian, Egyptian and Syrian glass vessels of the tenth and eleventh centuries AD correlates very strongly with the presence of lustre wares, tin glazes

and other glazed ceramics. Such parallels go further to strengthen the concept of continuity in trade from the first century BC to the eleventh century AD as well as the importance of the role of the city of Anuradhapura as one of the central points in this trade. Sections 7.2 to 7.5 contain the various artefact descriptions and catalogues. Although we have attempted, where possible, to draw analogies between the artefacts from ASW2 and those from other Sri Lankan and South Asian sites, this has proved almost impossible. It appears that categories of glass objects, vessels in particular, have not been studied in any great detail. In the conclusion (section 7.6), we will therefore attempt to frame the collection from Anuradhapura in the light of the wider Indian Ocean trade (see Maps 13 and 14).

### 7.2 Vessels

A total of 443 fragments of glass vessels, weighing a total of 402.6 g, were recovered from trench ASW2 (see Table 7.2), of which only 31 were classified as diagnostic. The diagnostic sherds fall into two broad chronological bands: firstly, between the first century BC and the first century AD; and secondly, between the ninth and tenth centuries AD. While the earlier group appears to have a provenance in the eastern Mediterranean, the latter group is more diverse, with Egyptian, Syrian and Iranian provenances. Their presence at Anuradhapura closely mirrors the patterns of Mediterranean and West Asian imports of glazed ceramics and selected fine earthenware (see Chapters 5 and 6). Indeed, the continuity of the Indian Ocean trade from the late centuries BC to the early Islamic period is clearly found at Anuradhapura in the form of imports. For purposes of clarity, the following discussion of the diagnostic vessel sherds will be divided into two sections based upon our two chronological bands. I am extremely grateful to two glass specialists from the British Museum, Ralph Pinder-Wilson, formerly of the Department of Oriental Antiquities, and Veronica Tatton-Brown of the Greek and Roman Department for their identifications of the Islamic and Roman glass catalogued below.

Finds of Roman and Hellenistic glass vessels in South Asia are apparently restricted to seven sites: Ai Khanoum, Arikamedu, Begram, Dharanikota, Paithan, Taxila and Ter. However, surely this low count owes more to the nature of its identification and recovery than its extreme scarcity, as the addition of five sherds from ASW2 may prove. The earliest example from the

northwestern region of South Asia is from the Greek city of Ai Khanoum on the Oxus, which was occupied between the fourth and first centuries BC. Rather disappointingly, only a single rim fragment of an open vase with thin vertical walls was recovered (Guillaume and Rougeulle 1987: 15). A later collection of glass vessels from the same region was recovered by Marshall during his excavations at the city of Sirkap at Taxila (Marshall 1951). Sirkap, dating to between 175 BC and AD 100, is located in northern Pakistan (Allchin 1995: 126). At the site Marshall identified eight significant categories of glass: a) sea- or jade-green glass; b) lace glass; c) ribbed glass; d) swirled or marbled glass; e) blue and white cameo; f) mosaic glass; g) colourless translucent glass; h) millefiori glass (Marshall 1951: 685–9). Group a) consisted of five flasks, b) of two fragments of bowl rims, c) of two ribbed bowls, d) of two bottle necks, e) of a single undiagnostic sherd, f) of a single bowl fragment, g) of a single bowl fragment and h) of a single bowl fragment (*ibid.*). Marshall identified all the above categories as Roman imports from the first century AD (*ibid.*: 685). A similar pattern is found in the storerooms of the Kushan city at Begram in Afghanistan (Hackin and Hackin 1939). Among the 'treasure', deposited before the middle of the third century AD (Wheeler 1954: 163), are vessels of millefiori glass [No. 159] (Hackin and Hackin 1939: 29), ribbed ware [No. 177] (*ibid.*: 34) and swirled or marbled glass [No. 311] (*ibid.*: 62), in addition to vessels decorated with semi-detached network surround [No. 192] (*ibid.*: 36) and painted glass [No. 197] (*ibid.*: 37–9). It appears that the majority of this glass was of Syrian or Egyptian manufacture (Wheeler 1954: 163).

A second concentration of finds of Roman glass vessels is found in peninsular India. Wheeler identified two fragments of Roman glass bowls recovered from pre-Arretine levels at Arikamedu in Tamil Nadu (Wheeler 1946: 102). One was from a ribbed bowl of colourless glass, the other from a ribbed bowl of blue glass. Wheeler also noted that a further five ribbed bowls had been previously recovered from the site (*ibid.*). Stern has perhaps identified one of the latter at the Pondicherry Museum, where she examined a fragment of amber-coloured glass (Stern 1991: 117). A further fragment of a ribbed bowl was recovered at Dharanikota (Dikshit 1969: 51). These forms, dated to between the mid and later first century BC (Harden 1987: 189), clearly fall into group c) of Marshall's category and are of eastern Mediterranean provenance. In addition, at the Pondicherry Museum Stern has identified an opaque light-blue dish dating to the first century AD with internal concentric grooves and a transparent blue glass bowl with horizontal ridges halfway down the body, possibly dating to the first century BC (Stern 1991: 117). The former appears to be of a similar shape to some of the flat Arretine dishes, while the latter is of a similar shape to a number of the fine earthenwares of structural period G (see Chapter 6: Unglazed Ceramics). Dikshit has also commented on the recovery of a small mosaic tablet of millefiori glass from Arikamedu, dating to the first century AD (Dikshit 1969: 51). Other Roman imports are represented by the fragmentary rim of blue glass found at Paithan; two rim fragments, one foot fragment and possibly an

unguentarium from Ter (Dikshit 1969; Stern 1991). The latter, with a tooled decoration of embedded white glass, is analogous to similar examples from the eastern Mediterranean dating to the first century AD (Stern 1991: 115).

As is clear from Table 7.3, only five sherds of eastern Mediterranean glass were recovered from the excavations at ASW2. All have been dated to between the first century BC and the first century AD (Tatton-Brown, pers. comm.). Three were recovered from structural period G, one fragment from F and one from B. It seems highly likely that the fragments from periods F and B are redeposited from earlier levels. All three 'in situ' fragments were recovered from contexts representing the destruction of the structures of phase G5. The five sherds, although fragmentary in nature, clearly do not fall into the exotic categories of glassware found at Arikamedu, Begram and Sirkap, but all appear to form part of the later Hellenistic and Early Roman category of colourless and coloured, grooved bowls. Two of the sherds were of a sea-green colour (sfs 6716 and 5689), one was violet (sf 1097) and a further two were colourless (sfs 5306 and 6181). It is interesting to note that the decoration on these bowls appears to be similar to that of the fine earthenware ceramic form designated as Arikamedu type 10 (see Chapter 6: Unglazed Ceramics). Perhaps the latter may be considered as a ceramic skeuomorph of the former? No chemical analysis of the glass from ASW2 has been carried out. There is certainly some confusion as to the origin of certain glass objects within Early Historic South Asia. While Wheeler (1946, 1954) and Marshall (1951) argued for Roman provenance, Lal's analysis of glass from Taxila, Arikamedu, Achchatra, Nalanda and other sites seemed to demonstrate that such examples were of local manufacture (Lal 1952: 22–6). This in turn appears to have been challenged by Wypyski's analysis of five decorated glass roundels from Afghanistan and Pakistan. The roundels, dated to between the second century BC and the first century AD (Boardman *et al.* 1992: 159), fell into three distinct chemical clusters (Wypyski 1992: 281). The first cluster was consistent with manufacture within the Roman Empire, the second with manufacture within the Near East or eastern Mediterranean region, and the third with an as yet unknown source. Analysis of the glass vessel sherds from Anuradhapura would undoubtedly shed further light on this area of early glass trade and manufacture.

Twenty-five fragments of early Islamic glass vessels, our second broad chronological group, were recovered from trench ASW2 (see Table 7.4). While far more numerous than examples of Roman glassware, early Islamic examples have been somewhat neglected. Indeed, it is the case that while hundreds of fragments of such glass vessels have been found in the monastic sites surrounding Anuradhapura, as well as at the city's main port, Mantai, few have been provenanced or dated (Carswell and Prickett 1984: 65; Ratnayake 1984: 119; Ueyama and Nozaki 1993: 97; Wickramagamage *et al.* 1984: 367; Wickramagamage 1984: 114). Similarly, the glass vessels from the excavations at the ports of Banbhore and Siraf are still largely unpublished (Khan 1964: 54; Whitehouse 1968: 18–19). All 25 sherds from

ASW2 have been dated to between the ninth and tenth centuries AD. Two were given a provenance of manufacture in Persia (sfs 273 and 15799), one Syrian (sf 1108) and the remaining 22 Egyptian (Pinder-Wilson, pers. comm.). Where identifiable, the ASW2 glass vessel forms include flasks, toilet flasks, straight-sided beakers and bowls and phials. It is probable that, while bowls, beakers and flasks were used as table and kitchenware, the toilet flasks and phials were mainly for cosmetic uses, a suggestion further strengthened by the presence of sf 214, a glass kohl stick with affinities to those found at Fustat (Pinder-Wilson, pers. comm.). Indeed, it is also possible to agree with Kroger (1995: 33) that, while bowls and beakers were unlikely to have served as transport containers, the other groups of vessels might well have been used for such a purpose. Kroger has also suggested that the glass trade with China was probably overland (*ibid.*: 34). However, as a sherd of imitation lustre ware from Khurasan (sf 746) was found at ASW2 (see Chapter 5: Glazed Ceramics), it is equally possible that this trade may have also been by sea. Further evidence for the trading of glass by sea is provided by the Serce Limani wreck, located off the coast of Turkey. The cargo of this ship, dating to the eleventh century AD, included over 3 tons of early Islamic glass vessels and cullet (i.e. recycled glass waste), where the latter may also have acted as ballast (Bass and van Doorninck 1978: 124).

Analogies can be drawn between the early Islamic glass vessels from ASW2 and those from other contemporary sites. Such sites have a vast geographical range – from China and Transoxiana to the Mediterranean coast. As one of the most fully illustrated catalogues of glass vessels has been published on finds from Nishapur (Kroger 1995), we will use it to compare with the sherds from ASW2. Nishapur is clearly a relevant analogy to draw with Anuradhapura as it flourished at the same time and presumably there were direct or indirect trade links between the two. As indicated by Table 7.4, five recognizable categories of glass vessels were identified. The first of these comprised three sherds from straight-sided bowls, some with inward-folded rims (sfs 106, 1277 and 1301). The latter two had a high bubble content and were green, while the first-mentioned was colourless. The second category comprised five sherds from straight-sided beakers, occasionally with inward- or outward-folded rims (sfs 256, 273, 302, 450 and 2653). Similar cylindrical beakers form a strong component of the glass vessels excavated at Kilwa, situated off the Tanzanian coast (Chittick 1974: 395), and at Nishapur in eastern Iran (Kroger 1995: 56–61). It is also possible to find parallels between the five flask or bottle sherds from ASW2 (sfs 1108, 1356, 1412, 1636 and 1754) and those from Kilwa (Chittick 1974: 402–407) and Nishapur (Kroger 1995: 71–3). Sherds from toilet flasks fell into two groups, those with cylindrical bodies (sfs 145, 328 and 5702) and those with globular ones (sfs 1406 and 5696); again parallels can be drawn with the 'miniature bottles' from Nishapur (*ibid.*: 63–70). As the three sherds of phials (sfs 279, 1660 and 15799) were only represented by neck fragments, it is difficult to make analogies with finds from other sites. It is interesting to note that later developments in Islamic

glass, such as enamelling, are not represented at ASW2, clearly confirming the eleventh-century date for the general removal of the site from performing an international role. However, it should also be stated that, while many of the ASW2 glass vessels have parallels throughout the early Islamic world, there is no evidence of the eighth-century lustre wares as found at Fustat (Pinder-Wilson and Scanlon 1973) or of the cut, applied or stamped decoration as found at Nishapur (Kroger 1995).

All the early Islamic glass fragments are from blown vessels. This glass-making technique has been well described by Harden (1987: 87), however we will again summarize it here. Glass is heated in a crucible on a furnace and then a gob is gathered on the end of a blowpipe. By blowing into the blowpipe the gob is slightly inflated as it is swung, rolled or shaped with a flat surface, tools or mould. The gob is then fully blown, after which it is removed from the blowpipe while a pontil rod is attached to the base of the vessel by a wad of glass so that the mouth and neck of the vessel can be finished. The vessel is then gradually cooled. A simple vessel can be made in as short a time as two or three minutes, with a day to cool, a clear advantage over the time necessary to prepare, shape and fire ceramic vessels. It is interesting to note that sf 5695 has a very visible pontil mark, perhaps suggesting that the vessel belonged to what Kroger has called 'low-cost domestic glass' (Kroger 1995: 23). All the glass fragments from ASW2 were collected and recorded in the hope that they can help us further understand their presence at the site; as Kroger comments of Nishapur, where many sherds were just dumped without being recorded, "thorough documentation might have afforded us a better idea of which vessel types were used in greater numbers" (*ibid.*: 24).

### 7.2.1 Rims

Special find no: 256 Context: 99se  
Stratigraphic Phase: CXV Weight: 3.59g  
Description: Inward-folded rim fragment from straight-sided beaker of colourless glass (with patina) with light horizontal ribbing  
Diameter: 24cm  
Dimensions: 2.1 x 1.0cm; 0.3cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 1412 Context: 109sw  
Stratigraphic Phase: CIII Weight: 0.48g  
Description: Rim fragment from flask of colourless glass (with patina)  
Dimensions: 2 x 2cm; 0.5–0.2cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 106 Context: 27sw  
Stratigraphic Phase: C Weight: 1.73g  
Description: Inward-folded rim fragment from bowl of colourless glass (with patina)  
Diameter: 36cm  
Dimensions: 2.8 x 1.5cm; 0.3cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 145 Context: 41sw  
Stratigraphic Phase: C Weight: 0.24g

Description: Rim fragment of small toilet flask of colourless glass (with patina)  
Diameter: 6cm  
Dimensions: 1.2 x 1.1cm; 0.1cm thick  
Date: 9th–10th century AD Provenance: Egyptian

Special find no: 302 Context: 111sw  
Stratigraphic Phase: XCV Weight: 1.16g  
Description: Inward-folded rim fragment from straight-sided beaker of colourless glass (with patina) with light horizontal ribbing  
Diameter: 32cm  
Dimensions: 3.5 x 2.2cm; 0.15–0.2cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 1277 Context: 600  
Stratigraphic Phase: XCV Weight: 0.99g  
Description: Rim fragment from straight-sided bowl of green glass. High bubble content.  
Dimensions: 3 x 2cm; 0.16cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 1301 Context: 151se  
Stratigraphic Phase: XCV Weight: 1.43g  
Description: Thickened rim fragment from straight-sided bowl of green glass. High bubble content.  
Dimensions: 2 x 2cm; 0.24cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 1636 Context: 256se  
Stratigraphic Phase: XCV Weight: 4.5g  
Description: Fragment of rim from flask of colourless glass (with patina)  
Dimensions: 5 x 5cm; 0.3cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 1754 Context: 272se  
Stratigraphic Phase: XCV Weight: 0.3g  
Description: Fragment of rim from flask of colourless glass  
Dimensions: 1 x 1cm; 0.35–0.3cm thick  
Date: 9th–10th century AD Provenance: Egyptian

Special find no: 1108 Context: 76ne  
Stratigraphic Phase: XCV Weight: 2.23g  
Description: Mouth and neck of large flask of colourless glass (with patina)  
Diameter: 4.5cm  
Dimensions: 2.2cm length; 2.2–0.2cm thick  
Date: 9th–10th century AD Provenance: Syrian or Egyptian  
[Fig. 7.1]

Special find no: 1356 Context: 80nw  
Stratigraphic Phase: XCV Weight: 3.5g  
Description: Fragment of rim from flask of colourless glass (with patina)  
Dimensions: 2 x 2cm; 0.8–0.25cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 328 Context: 130nw  
Stratigraphic Phase: XCV Weight: 0.38g  
Description: Rim fragment from small toilet flask of colourless glass (with patina) Diameter: 6cm  
Dimensions: 1.6 x 1.3cm; 0.2cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 450 Context: 134ne  
Stratigraphic Phase: XCV Weight: 0.94g  
Description: Rim fragment from straight-sided beaker of colourless glass  
Dimensions: 2.0 x 1.0cm; 0.3cm thick  
Date: 9th–10th century AD Provenance: Egyptian

Special find no: 1406 Context: 87sw  
Stratigraphic Phase: XCV Weight: 0.96g  
Description: Rim fragment from small globular-bodied toilet flask of colourless glass (with patina)  
Diameter: 5cm  
Dimensions: 2 x 2cm; 0.1cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 2653 Context: 292ne  
Stratigraphic Phase: XCV Weight: 0.49g  
Description: Out-turned rim fragment from beaker of colourless glass (with patina)  
Dimensions: 2 x 1cm; 0.3cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 5696 Context: 271se  
Stratigraphic Phase: XCV Weight: 0.94g  
Description: Rim fragment from small globular-bodied toilet flask of colourless glass (with patina)  
Diameter: 6cm  
Dimensions: 2 x 2cm; 0.1cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 5702 Context: 313sw  
Stratigraphic Phase: XCV Weight: 0.44g  
Description: Rim fragment from small toilet flask of colourless glass (with patina)  
Dimensions: 2 x 2cm; 0.2cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 273 Context: 88nw  
Stratigraphic Phase: XCV Weight: 0.46g  
Description: Rim fragment from beaker of pale blue glass  
Diameter: 16cm  
Dimensions: 2.4 x 1.0cm; 0.2cm thick  
Date: 9th–10th century AD Provenance: Persian  
[Fig. 7.1]

Special find no: 2379 Context: 396se  
Stratigraphic Phase: XCI Weight: 0.95g  
Description: Rim fragment from straight-sided beaker or bowl of colourless glass  
Dimensions: 2 x 2cm; 0.95–0.2cm thick  
Date: ? Provenance: ?

Special find no: 6716 Context: 416ne  
Stratigraphic Phase: XCI Weight: 1.23g  
Description: Rim fragment from a moulded bowl of sea-green glass with horizontal, wheel-cut grooves  
Dimensions: 2.5 x 1.1cm – 3 x 3cm; 0.27cm thick  
Date: 1st century BC–1st century AD Provenance: Eastern Mediterranean  
[Plate 1.3; Fig. 7.1]

## 7.2.2 Bases

Special find no: 366 Context: 26nw  
Stratigraphic Phase: CIV Weight: 5.84g  
Description: Concave base from vessel of blue glass (with patina)  
Diameter: 4.6cm  
Dimensions: 4.4 x 2.9cm; 0.4–0.1cm thick  
Date: 9th–10th century AD Provenance: Egyptian

Special find no: 977 Context: 115se  
Stratigraphic Phase: XCVI Weight: 27g  
Description: Flat base from large vessel of blue glass (with patina)  
Dimensions: 5 x 3.5cm; 1cm thick  
Date: 9th–10th century AD Provenance: Egyptian  
[Fig. 7.1]

Special find no: 5695 Context: 271se  
Stratigraphic Phase: XCV Weight: 3.39g

Description: **Concave base from small vessel of greenish glass (with patina). Very visible pontil mark.**  
 Dimensions: 3 x 3cm; 0.24cm thick  
 Date: 9th–10th century AD Provenance: Egyptian  
 [Fig. 7.1]

### 7.2.3 Necks

Special find no: 279 Context: 87sw  
 Stratigraphic Phase: XCV Weight: 3.5g  
 Description: **Neck fragment from phial of colourless glass (with patina)**  
 Diameter: 1–1.3cm  
 Dimensions: 4 cm; 0.01cm thick  
 Date: 9th–10th century AD Provenance: Egyptian

Special find no: 93 Context: 24nw  
 Stratigraphic Phase: C Weight: 1.69g  
 Description: **Neck fragment from vessel of greenish glass**  
 Diameter: 1.6cm  
 Dimensions: 3.2 x 1.6cm; 0.5cm thick  
 Date: 9th–10th century AD Provenance: Egyptian

Special find no: 1660 Context: 287ne  
 Stratigraphic Phase: XCV Weight: 1.16g  
 Description: **Neck fragment from phial of greenish glass (with patina)**  
 Diameter: 1.1cm  
 Dimensions: 2 x 2cm; 0.12–0.01cm thick  
 Date: 9th–10th century AD Provenance: Egyptian

Special find no: 15799 Context: 600  
 Stratigraphic Phase: XCV Weight: 0.9g  
 Description: **Neck fragment from phial of blue glass**  
 Diameter: 1cm  
 Dimensions: 2 x 1cm; 1.2–0.95cm thick  
 Date: 9th–10th century AD Provenance: Persian

### 7.2.5 Undiagnostic body sherds

Special find no: 17 Context: 9nw  
 Stratigraphic Phase: CVI Weight: 0.43g  
 Description: **With patina**

Special find no: 62 Context: 14nw  
 Stratigraphic Phase: CII Weight: 0.22g  
 Description: **Dark blue glass**

Special find no: 81 Context: 14se  
 Stratigraphic Phase: CII Weight: 0.06g  
 Description: **Dark blue glass**

Special find no: 119 Context: 24nw  
 Stratigraphic Phase: C Weight: 0.84g  
 Description: **With patina**

Special find no: 131 Context: 43ne  
 Stratigraphic Phase: XCVI Weight: 0.31g  
 Description: **White glass**

Special find no: 153 Context: 51nw  
 Stratigraphic Phase: XCIX Weight: 0.25g  
 Description: **With patina**

Special find no: 177 Context: 61ne  
 Stratigraphic Phase: XCV Weight: 0.42g  
 Description: **Pale green glass**

Special find no: 217 Context: 82nw  
 Stratigraphic Phase: XCIX Weight: 3.91g  
 Description: **Pale green glass**

Special find no: 225 Context: 56nw  
 Stratigraphic Phase: XCV Weight: 0.86g  
 Description: **With patina**

### 7.2.4 Decorated body sherds

Special find no: 1097 Context: 12sw  
 Stratigraphic Phase: CVIII Weight: 5.63g  
 Description: **Body sherd from a moulded bowl of violet glass with horizontal, wheel-cut grooves**  
 Dimensions: 4.7 x 1.6cm; 0.4cm thick  
 Date: 1st century BC–1st century AD Provenance: Eastern Mediterranean  
 [Plate 1.3; Fig. 7.1]

Special find no: 5306 Context: 385se  
 Stratigraphic Phase: XCI Weight: 1.23g  
 Description: **Body sherd from a moulded vessel of colourless glass with horizontal, wheel-cut grooves**  
 Dimensions: 2.2 x 1.4cm; 0.25cm thick  
 Date: 1st century BC–1st century AD Provenance: Eastern Mediterranean  
 [Plate 1.3]

Special find no: 5689 Context: 73se  
 Stratigraphic Phase: XCIII Weight: 0.30g  
 Description: **Body sherd from a moulded vessel of sea-green glass with horizontal, wheel-cut grooves**  
 Dimensions: 0.9 x 0.8cm  
 Date: 1st century BC–1st century AD Provenance: Eastern Mediterranean

Special find no: 6281 Context: 385se  
 Stratigraphic Phase: XCI Weight: 0.93g  
 Description: **Body sherd from a moulded vessel of colourless glass with horizontal, wheel-cut groove**  
 Dimensions: 1.7 x 1.5cm; 0.25cm thick  
 Date: 1st century BC–1st century AD Provenance: Eastern Mediterranean

Special find no: 23 Context: 15ne  
 Stratigraphic Phase: CXI Weight: 0.66g  
 Description: **Dark blue glass**

Special find no: 68 Context: 14sw  
 Stratigraphic Phase: CII Weight: 0.33g  
 Description: **Pale green glass**

Special find no: 102 Context: 27se  
 Stratigraphic Phase: C Weight: 0.25g  
 Description: **Pale green glass**

Special find no: 124 Context: 41nw  
 Stratigraphic Phase: C Weight: 0.33g  
 Description: **Pale green and pale yellow glass**

Special find no: 142 Context: 143se  
 Stratigraphic Phase: CI Weight: 1.16g  
 Description: **Dark blue glass**

Special find no: 167 Context: 24sw  
 Stratigraphic Phase: C Weight: 2.69g  
 Description: **Dark blue glass**

Special find no: 213 Context: 126nw  
 Stratigraphic Phase: XCV Weight: 2.01g  
 Description: **With patina**

Special find no: 222 Context: 82nw  
 Stratigraphic Phase: XCIX Weight: 2.0g  
 Description: **Dark green glass**

Special find no: 228 Context: 86ne  
 Stratigraphic Phase: XCV Weight: 7.32g  
 Description: **With patina**

Special find no: 237 Stratigraphic Phase: XCV Description: With patina	Context: 86ne Weight: 1.53g	Special find no: 247 Stratigraphic Phase: XCV Description: Dark blue glass, with patina	Context: 90nw Weight: 0.25g
Special find no: 273 Stratigraphic Phase: XCV Description: With patina	Context: 87sw Weight: 1.25g	Special find no: 274 Stratigraphic Phase: XCV Description: With patina	Context: 88ne Weight: 0.55g
Special find no: 278 Stratigraphic Phase: XCV Description: Pale green glass	Context: 86sw Weight: 2.21g	Special find no: 291 Stratigraphic Phase: XCV Description: With patina	Context: 87sw Weight: 1.15g
Special find no: 307 Stratigraphic Phase: XCV Description: Dark blue glass	Context: 78se Weight: 0.98g	Special find no: 314 Stratigraphic Phase: XCVI Description: Pale green glass, with patina	Context: 115se Weight: 2.55g
Special find no: 319 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 78se Weight: 0.19g	Special find no: 330 Stratigraphic Phase: XCV Description: With patina	Context: 130sw Weight: 0.43g
Special find no: 332 Stratigraphic Phase: XCV Description: With patina	Context: 130sw Weight: 0.22g	Special find no: 333 Stratigraphic Phase: XCV Description: Dark blue glass, with patina	Context: 130sw Weight: 1.23g
Special find no: 334 Stratigraphic Phase: XCV Description: With patina	Context: 130sw Weight: 1.93g	Special find no: 367 Stratigraphic Phase: CXIV Description: Pale green glass	Context: 4ne Weight: 4.55g
Special find no: 368 Stratigraphic Phase: CXII Description: Pale green glass	Context: 5nw Weight: 0.47g	Special find no: 369 Stratigraphic Phase: CXIV Description: Pale green glass	Context: 4se Weight: 2.18g
Special find no: 371 Stratigraphic Phase: XCV Description: With patina	Context: 126nw Weight: 0.83g	Special find no: 372 Stratigraphic Phase: CXIV Description: Pale green glass	Context: 4sw Weight: 2.25g
Special find no: 373 Stratigraphic Phase: CX Description: Dark blue glass	Context: 19se Weight: 0.12g	Special find no: 374 Stratigraphic Phase: XCV Description: With patina	Context: 88nw Weight: 0.29g
Special find no: 375 Stratigraphic Phase: CVI Description: Pale blue glass	Context: 9se Weight: 0.11g	Special find no: 376 Stratigraphic Phase: CXIV Description: Dark green glass	Context: 4sw Weight: 0.12g
Special find no: 377 Stratigraphic Phase: CXII Description: Pale green glass	Context: 5sw Weight: 0.37g	Special find no: 378 Stratigraphic Phase: CII Description: Dark blue glass	Context: 14sw Weight: 1.52g
Special find no: 379 Stratigraphic Phase: XCV Description: With patina	Context: 111sw Weight: 0.4g	Special find no: 381 Stratigraphic Phase: CXIII Description: Pale green glass, with patina	Context: 17se Weight: 0.12g
Special find no: 382 Stratigraphic Phase: CXIII Description: Pale blue glass	Context: 17se Weight: 0.51g	Special find no: 383 Stratigraphic Phase: CXIII Description: Dark blue glass	Context: 17se Weight: 0.2g
Special find no: 424 Stratigraphic Phase: XCV Description: With patina	Context: 134ne Weight: 3.47g	Special find no: 427 Stratigraphic Phase: XCV Description: With patina	Context: 107nw Weight: 3.64g
Special find no: 434 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 134ne Weight: 0.35g	Special find no: 436 Stratigraphic Phase: XCV Description: With patina	Context: 107nw Weight: 0.38g
Special find no: 454 Stratigraphic Phase: XCV Description: White, with patina	Context: 134ne Weight: 0.84g	Special find no: 485 Stratigraphic Phase: XCV Description: With patina	Context: 134nw Weight: 0.46g
Special find no: 617 Stratigraphic Phase: XCV Description: Dark blue, with patina	Context: 56sw Weight: 0.33g	Special find no: 618 Stratigraphic Phase: XCV Description: With patina	Context: 56sw Weight: 0.11g
Special find no: 619 Stratigraphic Phase: XCV Description: Pale green glass	Context: 56sw Weight: 4.1g	Special find no: 620 Stratigraphic Phase: XCV Description: With patina	Context: 56sw Weight: 0.68g
Special find no: 648 Stratigraphic Phase: XCV Description: With patina	Context: 104sw Weight: 1.03g	Special find no: 652 Stratigraphic Phase: XCV Description: With patina	Context: 184ne Weight: 0.88g

## Glass Objects

Special find no: <b>670</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>104sw</b> Weight: <b>0.19g</b>	Special find no: <b>683</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>142se</b> Weight: <b>1.91g</b>
Special find no: <b>684</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>142se</b> Weight: <b>0.66g</b>	Special find no: <b>709</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>182se</b> Weight: <b>1.62g</b>
Special find no: <b>712</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>201ne</b> Weight: <b>0.54g</b>	Special find no: <b>721</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>211ne</b> Weight: <b>3.03g</b>
Special find no: <b>724</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>214ne</b> Weight: <b>0.49g</b>	Special find no: <b>729</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass</b>	Context: <b>214ne</b> Weight: <b>0.34g</b>
Special find no: <b>730</b> Stratigraphic Phase: <b>C</b> Description: <b>Pale green glass, with patina</b>	Context: <b>41</b> Weight: <b>0.85g</b>	Special find no: <b>731</b> Stratigraphic Phase: <b>XCVII</b> Description: <b>Dark blue glass</b>	Context: <b>25sw</b> Weight: <b>0.19g</b>
Special find no: <b>732</b> Stratigraphic Phase: <b>XCVIII</b> Description: <b>Pale green glass, with patina</b>	Context: <b>48e</b> Weight: <b>1.55g</b>	Special find no: <b>734</b> Stratigraphic Phase: <b>XCVII</b> Description: <b>With patina</b>	Context: <b>25nw</b> Weight: <b>1.73g</b>
Special find no: <b>735</b> Stratigraphic Phase: <b>C</b> Description: <b>With patina</b>	Context: <b>24nw</b> Weight: <b>3.0g</b>	Special find no: <b>737</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>56nw</b> Weight: <b>0.41g</b>
Special find no: <b>738</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>56nw</b> Weight: <b>0.75g</b>	Special find no: <b>740</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale blue glass</b>	Context: <b>103nw</b> Weight: <b>3.16g</b>
Special find no: <b>741</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina</b>	Context: <b>126nw</b> Weight: <b>2.06g</b>	Special find no: <b>742</b> Stratigraphic Phase: <b>XCVI</b> Description: <b>With patina</b>	Context: <b>120ne</b> Weight: <b>1.21g</b>
Special find no: <b>743</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Purple glass</b>	Context: <b>134ne</b> Weight: <b>1.85g</b>	Special find no: <b>744</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>107nw</b> Weight: <b>0.49g</b>
Special find no: <b>767</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>134ne</b> Weight: <b>0.81g</b>	Special find no: <b>768</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>134ne</b> Weight: <b>0.5g</b>
Special find no: <b>769</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>134ne</b> Weight: <b>0.49g</b>	Special find no: <b>785</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Purple glass</b>	Context: <b>107nw</b> Weight: <b>0.8g</b>
Special find no: <b>839</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass</b>	Context: <b>88ne</b> Weight: <b>1.11g</b>	Special find no: <b>840</b> Stratigraphic Phase: <b>C</b> Description: <b>Dark blue glass</b>	Context: <b>27sw</b> Weight: <b>0.07g</b>
Special find no: <b>842</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark blue glass</b>	Context: <b>88a</b> Weight: <b>0.46g</b>	Special find no: <b>845</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Black glass</b>	Context: <b>188sw</b> Weight: <b>0.15g</b>
Special find no: <b>846</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Black glass</b>	Context: <b>188sw</b> Weight: <b>0.3g</b>	Special find no: <b>847</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Black glass</b>	Context: <b>188sw</b> Weight: <b>0.2g</b>
Special find no: <b>848</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark green glass</b>	Context: <b>188sw</b> Weight: <b>0.03g</b>	Special find no: <b>883</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>87se</b> Weight: <b>0.21g</b>
Special find no: <b>907</b> Stratigraphic Phase: <b>XCVII</b> Description: <b>Pale green glass, with patina</b>	Context: <b>25ne</b> Weight: <b>0.75g</b>	Special find no: <b>934</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>134se</b> Weight: <b>0.21g</b>
Special find no: <b>935</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark blue glass</b>	Context: <b>188sw</b> Weight: <b>0.33g</b>	Special find no: <b>977</b> Stratigraphic Phase: <b>XCVI</b> Description: <b>Dark blue glass, with patina</b>	Context: <b>115se</b> Weight: <b>24.22g</b>
Special find no: <b>1065</b> Stratigraphic Phase: <b>C</b> Description: <b>Pale blue glass</b>	Context: <b>41sw</b> Weight: <b>1.25g</b>	Special find no: <b>1066</b> Stratigraphic Phase: <b>C</b> Description: <b>Clear glass</b>	Context: <b>41sw</b> Weight: <b>1.46g</b>
Special find no: <b>1067</b> Stratigraphic Phase: <b>C</b> Description: <b>Clear glass</b>	Context: <b>41sw</b> Weight: <b>2.51g</b>	Special find no: <b>1068</b> Stratigraphic Phase: <b>C</b> Description: <b>Clear glass</b>	Context: <b>41sw</b> Weight: <b>2.1g</b>



Special find no: 1069 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 0.80g	Special find no: 1073 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 0.75g
Special find no: 1074 Stratigraphic Phase: C Description: White glass	Context: 41sw Weight: 0.21g	Special find no: 1075 Stratigraphic Phase: C Description: White glass	Context: 41sw Weight: 0.12g
Special find no: 1076 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 1.02g	Special find no: 1078 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 0.14g
Special find no: 1079 Stratigraphic Phase: C Description: Dark blue glass	Context: 41sw Weight: 0.95g	Special find no: 1080 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 2.12g
Special find no: 1081 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 2.1g	Special find no: 1083 Stratigraphic Phase: C Description: White glass	Context: 41sw Weight: 0.95g
Special find no: 1084 Stratigraphic Phase: C Description: White glass	Context: 41sw Weight: 0.94g	Special find no: 1085 Stratigraphic Phase: C Description: Dark blue glass	Context: 41sw Weight: 0.94g
Special find no: 1086 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 0.81g	Special find no: 1089 Stratigraphic Phase: C Description: Pale blue glass	Context: 41sw Weight: 0.53g
Special find no: 1090 Stratigraphic Phase: CIII Description: Pale blue glass	Context: 94ne Weight: 0.75g	Special find no: 1097 Stratigraphic Phase: CVIII Description: Purple glass	Context: 12sw Weight: 1.04g
Special find no: 1100 Stratigraphic Phase: XCV Description: Clear glass	Context: 56se Weight: 2.5g	Special find no: 1112 Stratigraphic Phase: XCV Description: Clear glass	Context: 76ne Weight: 1.01g
Special find no: 1118 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 151se Weight: 0.51g	Special find no: 1119 Stratigraphic Phase: XCV Description: Yellow glass	Context: 151se Weight: 2.1g
Special find no: 1120 Stratigraphic Phase: XCV Description: White glass	Context: 151se Weight: 0.21g	Special find no: 1121 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 151se Weight: 0.75g
Special find no: 1131 Stratigraphic Phase: XCV Description: Clear glass	Context: 151se Weight: 0.75g	Special find no: 1132 Stratigraphic Phase: XCV Description: Clear glass	Context: 151se Weight: 0.25g
Special find no: 1133 Stratigraphic Phase: XCV Description: Clear glass	Context: 151se Weight: 0.25g	Special find no: 1140 Stratigraphic Phase: CVI Description: Clear glass	Context: 9sw Weight: 1.02g
Special find no: 1141 Stratigraphic Phase: CVI Description: Clear glass	Context: 9sw Weight: 0.95g	Special find no: 1142 Stratigraphic Phase: CVI Description: Clear glass	Context: 9sw Weight: 0.2g
Special find no: 1143 Stratigraphic Phase: CVI Description: Clear glass	Context: 9sw Weight: 0.95g	Special find no: 1146 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 0.3g
Special find no: 1151 Stratigraphic Phase: C Description: Dark blue glass	Context: 41sw Weight: 0.95g	Special find no: 1152 Stratigraphic Phase: C Description: Pale green glass	Context: 41sw Weight: 0.4g
Special find no: 1157 Stratigraphic Phase: XCV Description: White glass	Context: 111sw Weight: 0.72g	Special find no: 1163 Stratigraphic Phase: Description: Pale green glass	Context: unstratified Weight: 13.02g
Special find no: 1164 Stratigraphic Phase: CVI Description: Pale blue glass	Context: 12sw Weight: 0.17g	Special find no: 1175 Stratigraphic Phase: CVI Description: White glass	Context: 9sw Weight: 0.57g
Special find no: 1177 Stratigraphic Phase: CVI Description: Clear glass	Context: 9ne Weight: 2.02g	Special find no: 1178 Stratigraphic Phase: CVI Description: Pale blue glass	Context: 9ne Weight: 1.62g
Special find no: 1206 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 92nw Weight: 0.3g	Special find no: 1210 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 134ne Weight: 0.44g

# Glass Objects

Special find no: 1213 Stratigraphic Phase: CIII Description: <b>White glass</b>	Context: 16sw Weight: 0.65g	Special find no: 1219 Stratigraphic Phase: XCIV Description: <b>White glass</b>	Context: 74sw Weight: 0.42g
Special find no: 1224 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 76ne Weight: 0.83g	Special find no: 1225 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 76ne Weight: 0.41g
Special find no: 1226 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 76ne Weight: 0.45g	Special find no: 1236 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 76ne Weight: 0.19g
Special find no: 1237 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 76ne Weight: 0.29g	Special find no: 1242 Stratigraphic Phase: XCV Description: <b>Dark blue glass</b>	Context: 87sw Weight: 0.21g
Special find no: 1247 Stratigraphic Phase: XCVII Description: <b>Pale blue glass</b>	Context: 25nw Weight: 0.2g	Special find no: 1256 Stratigraphic Phase: C Description: <b>White glass</b>	Context: 41se Weight: 0.32g
Special find no: 1257 Stratigraphic Phase: C Description: <b>White glass</b>	Context: 41se Weight: 0.29g	Special find no: 1258 Stratigraphic Phase: C Description: <b>White glass</b>	Context: 41se Weight: 0.14g
Special find no: 1259 Stratigraphic Phase: C Description: <b>White glass</b>	Context: 41se Weight: 0.16g	Special find no: 1262 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 107sw Weight: 0.73g
Special find no: 1263 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 107sw Weight: 0.6g	Special find no: 1267 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 87sw Weight: 0.61g
Special find no: 1268 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 87sw Weight: 0.54g	Special find no: 1274 Stratigraphic Phase: XCVI Description: <b>Pale blue glass</b>	Context: 131sw Weight: 1.7g
Special find no: 1277 Stratigraphic Phase: u/s Description: <b>Pale blue glass</b>	Context: u/s Weight: 0.99g	Special find no: 1278 Stratigraphic Phase: u/s Description: <b>Pale blue glass</b>	Context: u/s Weight: 0.37g
Special find no: 1279 Stratigraphic Phase: u/s Description: <b>Pale blue glass</b>	Context: u/s Weight: 0.19g	Special find no: 1280 Stratigraphic Phase: u/s Description: <b>Pale blue glass</b>	Context: u/s Weight: 0.16g
Special find no: 1282 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 87nw Weight: 0.79g	Special find no: 1284 Stratigraphic Phase: CIII Description: <b>Pale blue glass</b>	Context: 16nw Weight: 0.51g
Special find no: 1285 Stratigraphic Phase: CIII Description: <b>White glass</b>	Context: 16nw Weight: 3.69g	Special find no: 1287 Stratigraphic Phase: CII Description: <b>Pale blue glass</b>	Context: 14sw Weight: 0.09g
Special find no: 1288 Stratigraphic Phase: CII Description: <b>Pale green glass</b>	Context: 14sw Weight: 0.36g	Special find no: 1289 Stratigraphic Phase: CII Description: <b>Pale green glass</b>	Context: 14sw Weight: 0.19g
Special find no: 1295 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 76ne Weight: 0.21g	Special find no: 1297 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 158nw Weight: 1.42g
Special find no: 1301 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 151se Weight: 0.26g	Special find no: 1303 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 166se Weight: 0.21g
Special find no: 1305 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 88ne Weight: 0.52g	Special find no: 1306 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 88ne Weight: 0.74g
Special find no: 1307 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 88ne Weight: 0.09g	Special find no: 1308 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 88ne Weight: 0.19g
Special find no: 1309 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 88ne Weight: 0.22g	Special find no: 1310 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 88ne Weight: 0.4g
Special find no: 1311 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 88ne Weight: 0.36g	Special find no: 1312 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 88ne Weight: 0.24g

Special find no: 1313 Stratigraphic Phase: XCV Description: White glass	Context: 88ne Weight: 0.24g	Special find no: 1326 Stratigraphic Phase: CVI Description: Black glass	Context: 9sw Weight: 0.97g
Special find no: 1333 Stratigraphic Phase: XCV Description: Pale green glass	Context: 100ne Weight: 0.81g	Special find no: 1343 Stratigraphic Phase: XCV Description: Black glass	Context: 87nw Weight: 0.17g
Special find no: 1346 Stratigraphic Phase: XCV Description: White glass	Context: 88ne Weight: 0.4g	Special find no: 1347 Stratigraphic Phase: XCV Description: Dark blue glass	Context: 88ne Weight: 0.21g
Special find no: 1348 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 88ne Weight: 0.12g	Special find no: 1349 Stratigraphic Phase: XCV Description: White glass	Context: 88ne Weight: 0.65g
Special find no: 1350 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 88ne Weight: 0.45g	Special find no: 1351 Stratigraphic Phase: XCV Description: Pale green glass	Context: 88ne Weight: 0.21g
Special find no: 1352 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 88ne Weight: 0.66g	Special find no: 1360 Stratigraphic Phase: XCV Description: Clear glass	Context: 80nw Weight: 2.74g
Special find no: 1361 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 80nw Weight: 0.91g	Special find no: 1362 Stratigraphic Phase: XCV Description: Pale green glass	Context: 80nw Weight: 0.56g
Special find no: 1364 Stratigraphic Phase: XCV Description: Clear glass	Context: 42nw Weight: 0.11g	Special find no: 1365 Stratigraphic Phase: XCV Description: Clear glass	Context: 42nw Weight: 0.16g
Special find no: 1366 Stratigraphic Phase: XCV Description: Pale green glass	Context: 42nw Weight: 0.21g	Special find no: 1367 Stratigraphic Phase: XCV Description: White glass	Context: 42nw Weight: 0.41g
Special find no: 1368 Stratigraphic Phase: XCV Description: Clear glass	Context: 80sw Weight: 0.3g	Special find no: 1369 Stratigraphic Phase: XCV Description: Pale green glass	Context: 80sw Weight: 0.68g
Special find no: 1370 Stratigraphic Phase: XCV Description: Pale green glass	Context: 80sw Weight: 1.09g	Special find no: 1371 Stratigraphic Phase: XCV Description: Pale green glass	Context: 80sw Weight: 0.95g
Special find no: 1372 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 0.35g	Special find no: 1373 Stratigraphic Phase: C Description: Clear glass	Context: 41sw Weight: 0.12g
Special find no: 1382 Stratigraphic Phase: CVI Description: Pale blue glass	Context: 9se Weight: 0.18g	Special find no: 1403 Stratigraphic Phase: XCVI Description: Pale green glass	Context: 120se Weight: 0.44g
Special find no: 1406 Stratigraphic Phase: XCV Description: Clear glass	Context: 87sw Weight: 0.96g	Special find no: 1407 Stratigraphic Phase: XCV Description: Pale green glass	Context: 123se Weight: 1.97g
Special find no: 1409 Stratigraphic Phase: XCV Description: Clear glass	Context: 123se Weight: 0.21g	Special find no: 1410 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 123se Weight: 0.24g
Special find no: 1413 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 134ne Weight: 0.87g	Special find no: 1414 Stratigraphic Phase: XCV Description: Pale green glass	Context: 134ne Weight: 0.28g
Special find no: 1417 Stratigraphic Phase: XCVI Description: Pale green glass	Context: 59sw Weight: 0.4g	Special find no: 1418 Stratigraphic Phase: XCVI Description: Yellow glass	Context: 59sw Weight: 0.12g
Special find no: 1419 Stratigraphic Phase: XCV Description: Pale green glass	Context: 56sw Weight: 0.92g	Special find no: 1420 Stratigraphic Phase: XCV Description: Pale green glass	Context: 56sw Weight: 0.75g
Special find no: 1422 Stratigraphic Phase: XCVI Description: Clear glass	Context: 131se Weight: 0.31g	Special find no: 1423 Stratigraphic Phase: XCV Description: Pale green glass	Context: 157se Weight: 0.77g
Special find no: 1424 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 157se Weight: 0.35g	Special find no: 1425 Stratigraphic Phase: XCV Description: Clear glass	Context: 157se Weight: 0.23g

# Glass Objects

Special find no: <b>1428</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>78se</b> Weight: <b>1.23g</b>	Special find no: <b>1429</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>87sw</b> Weight: <b>0.71g</b>
Special find no: <b>1461</b> Stratigraphic Phase: <b>C</b> Description: <b>Clear glass</b>	Context: <b>41sw</b> Weight: <b>0.04g</b>	Special find no: <b>1462</b> Stratigraphic Phase: <b>C</b> Description: <b>Pale blue glass</b>	Context: <b>41sw</b> Weight: <b>0.44g</b>
Special find no: <b>1463</b> Stratigraphic Phase: <b>C</b> Description:	Context: <b>41sw</b> Weight: <b>0.35g</b>	Special find no: <b>1464</b> Stratigraphic Phase: <b>C</b> Description:	Context: <b>41sw</b> Weight: <b>0.4g</b>
Special find no: <b>1503</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>254se</b> Weight: <b>0.31g</b>	Special find no: <b>1511</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>253nw</b> Weight: <b>0.32g</b>
Special find no: <b>1535</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale blue glass</b>	Context: <b>252sw</b> Weight: <b>1.01g</b>	Special find no: <b>1544</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale blue glass</b>	Context: <b>261nw</b> Weight: <b>0.19g</b>
Special find no: <b>1555</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>253nw</b> Weight: <b>0.95g</b>	Special find no: <b>1558</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark blue glass</b>	Context: <b>253nw</b> Weight: <b>0.51g</b>
Special find no: <b>1562</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale blue glass</b>	Context: <b>262se</b> Weight: <b>0.76g</b>	Special find no: <b>1567</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>262se</b> Weight: <b>0.17g</b>
Special find no: <b>1569</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Patina</b>	Context: <b>262se</b> Weight: <b>2.38g</b>	Special find no: <b>1598</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>273se</b> Weight: <b>0.91g</b>
Special find no: <b>1604</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Patina</b>	Context: <b>271se</b> Weight: <b>1.67g</b>	Special find no: <b>1605</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>273se</b> Weight: <b>0.26g</b>
Special find no: <b>1606</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>271se</b> Weight: <b>0.4g</b>	Special find no: <b>1612</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale blue glass</b>	Context: <b>263nw</b> Weight: <b>7.79g</b>
Special find no: <b>1619</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass</b>	Context: <b>256se</b> Weight: <b>0.25g</b>	Special find no: <b>1620</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Patina</b>	Context: <b>256se</b> Weight: <b>0.52g</b>
Special find no: <b>1621</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass</b>	Context: <b>256se</b> Weight: <b>0.91g</b>	Special find no: <b>1627</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Patina</b>	Context: <b>256se</b> Weight: <b>0.14g</b>
Special find no: <b>1630</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass, in three pieces</b>	Context: <b>271se</b> Weight: <b>2.74g</b>	Special find no: <b>1633</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass</b>	Context: <b>256se</b> Weight: <b>0.1g</b>
Special find no: <b>1650</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass</b>	Context: <b>286ne</b> Weight: <b>0.14g</b>	Special find no: <b>1697</b> Stratigraphic Phase: <b>XCIII</b> Description: <b>White glass</b>	Context: <b>304ne</b> Weight: <b>0.57g</b>
Special find no: <b>1708</b> Stratigraphic Phase: <b>XCIII</b> Description: <b>Pale blue glass</b>	Context: <b>304ne</b> Weight: <b>1.02g</b>	Special find no: <b>1732</b> Stratigraphic Phase: <b>XCV</b> Description: <b>With patina.</b>	Context: <b>290ne</b> Weight: <b>0.06g</b>
Special find no: <b>1767</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Patina</b>	Context: <b>316ne</b> Weight: <b>0.62g</b>	Special find no: <b>1792</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Yellow glass</b>	Context: <b>316ne</b> Weight: <b>0.26g</b>
Special find no: <b>1793</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Yellow glass</b>	Context: <b>316ne</b> Weight: <b>1.99g</b>	Special find no: <b>1794</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark green glass</b>	Context: <b>316ne</b> Weight: <b>0.21g</b>
Special find no: <b>1804</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>325ne</b> Weight: <b>2.1g</b>	Special find no: <b>1813</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Patina</b>	Context: <b>316ne</b> Weight: <b>0.33g</b>
Special find no: <b>1820</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>316ne</b> Weight: <b>0.21g</b>	Special find no: <b>1835</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Patina</b>	Context: <b>316ne</b> Weight: <b>0.26g</b>
Special find no: <b>1838</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Patina</b>	Context: <b>320ne</b> Weight: <b>0.1g</b>	Special find no: <b>1844</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Clear glass</b>	Context: <b>331se</b> Weight: <b>1.69g</b>

Special find no: 1850 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 326ne Weight: 0.53g	Special find no: 1861 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 320ne Weight: 0.27g
Special find no: 1866 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 331se Weight: 0.41g	Special find no: 1869 Stratigraphic Phase: XCV Description: <b>Black glass</b>	Context: 331se Weight: 0.3g
Special find no: 1872 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 331se Weight: 1.05g	Special find no: 1876 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 329se Weight: 0.49g
Special find no: 1880 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 332se Weight: 0.13g	Special find no: 1892 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 332se Weight: 0.19g
Special find no: 1896 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 332se Weight: 1.03g	Special find no: 1900 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 324ne Weight: 0.12g
Special find no: 1902 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 272se Weight: 0.01g	Special find no: 1906 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 272se Weight: 0.27g
Special find no: 1907 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 320ne Weight: 0.47g	Special find no: 1908 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 324ne Weight: 0.97g
Special find no: 1930 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 73se Weight: 0.4g	Special find no: 1953 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 334ne Weight: 0.21g
Special find no: 1954 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 334ne Weight: 0.3g	Special find no: 1965 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 322aw Weight: 0.5g
Special find no: 1973 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 334ne Weight: 1.6g	Special find no: 1974 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 320ne Weight: 0.09g
Special find no: 1978 Stratigraphic Phase: XCV Description: <b>Clear glass, two pieces</b>	Context: 334ne Weight: 0.28g	Special find no: 1995 Stratigraphic Phase: XCV Description: <b>Yellow glass</b>	Context: 320ne Weight: 0.14g
Special find no: 2067 Stratigraphic Phase: XCIII Description: <b>White glass</b>	Context: 304ne Weight: 0.08g	Special find no: 2068 Stratigraphic Phase: XCIII Description: <b>White glass</b>	Context: 304ne Weight: 0.2g
Special find no: 2069 Stratigraphic Phase: XCIII Description: <b>White glass</b>	Context: 304ne Weight: 0.11g	Special find no: 2070 Stratigraphic Phase: XCIII Description: <b>Patina</b>	Context: 304ne Weight: 0.2g
Special find no: 2124 Stratigraphic Phase: XCIII Description: <b>Clear glass</b>	Context: 305aw Weight: 0.2g	Special find no: 2136 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 285ne Weight: 0.83g
Special find no: 2137 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 285ne Weight: 4.18g	Special find no: 2147 Stratigraphic Phase: XCIII Description: <b>Patina</b>	Context: 306se Weight: 0.07g
Special find no: 2148 Stratigraphic Phase: XCIII Description: <b>White glass</b>	Context: 306se Weight: 0.19g	Special find no: 2151 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 301ne Weight: 2.2g
Special find no: 2152 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 301ne Weight: 0.75g	Special find no: 2171 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 324ne Weight: 0.88g
Special find no: 2203 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 320ne Weight: 0.01g	Special find no: 2204 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 320ne Weight: 0.92g
Special find no: 2205 Stratigraphic Phase: XCV Description: <b>Patina</b>	Context: 320ne Weight: 0.03g	Special find no: 2206 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 320ne Weight: 0.21g
Special find no: 2217 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 332ne Weight: 1.0g	Special find no: 2223 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 324ne Weight: 0.19g

# Glass Objects

Special find no: 2375 Stratigraphic Phase: XCV Description: Clear glass, two pieces	Context: 325ne Weight: 2.3g	Special find no: 2376 Stratigraphic Phase: XCV Description: Pale blue and clear glass, five pieces	Context: 325ne Weight: 1.2g
Special find no: 2380 Stratigraphic Phase: XCI Description: Clear glass, four pieces	Context: 396se Weight: 0.3g	Special find no: 2382 Stratigraphic Phase: XCIII Description: Pale green glass	Context: 379sw Weight: 0.16g
Special find no: 2409 Stratigraphic Phase: XCV Description: Clear glass	Context: 327ne Weight: 0.42g	Special find no: 2513 Stratigraphic Phase: XCIII Description: Pale blue glass	Context: 306sw Weight: 0.23g
Special find no: 2525 Stratigraphic Phase: XCIII Description: Dark blue glass	Context: 306sw Weight: 0.7g	Special find no: 2546 Stratigraphic Phase: XCIII Description: Dark green glass	Context: 345sw Weight: 3.76g
Special find no: 2558 Stratigraphic Phase: XCIII Description: Clear glass	Context: 73sw Weight: 0.39g	Special find no: 2583 Stratigraphic Phase: XCIII Description: Pale blue glass	Context: 73sw Weight: 0.3g
Special find no: 2597 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 292ne Weight: 0.03g	Special find no: 2599 Stratigraphic Phase: XCIII Description: Clear glass	Context: 73ne Weight: 0.01g
Special find no: 2604 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 292ne Weight: 0.44g	Special find no: 2608 Stratigraphic Phase: XCV Description: Clear glass	Context: 292ne Weight: 0.18g
Special find no: 2612 Stratigraphic Phase: XCV Description: Clear glass	Context: 292ne Weight: 0.12g	Special find no: 2613 Stratigraphic Phase: XCV Description: Clear glass	Context: 292ne Weight: 0.01g
Special find no: 2619 Stratigraphic Phase: XCV Description: Clear glass	Context: 292ne Weight: 0.22g	Special find no: 2625 Stratigraphic Phase: XCV Description: Clear glass	Context: 292ne Weight: 0.4g
Special find no: 2652 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 292ne Weight: 0.01g	Special find no: 2653 Stratigraphic Phase: XCV Description: Patina	Context: 292ne Weight: 0.2g
Special find no: 2662 Stratigraphic Phase: XCV Description: Clear glass	Context: 292ne Weight: 0.03g	Special find no: 2663 Stratigraphic Phase: XCV Description: Patina	Context: 292ne Weight: 0.28g
Special find no: 2671 Stratigraphic Phase: XCV Description: Clear glass	Context: 292ne Weight: 0.02g	Special find no: 2681 Stratigraphic Phase: XCV Description: Pale blue glass	Context: 294ne Weight: 0.02g
Special find no: 2686 Stratigraphic Phase: XCV Description: Clear glass	Context: 204ne Weight: 0.25g	Special find no: 2687 Stratigraphic Phase: XCV Description: Clear glass	Context: 294ne Weight: 0.01g
Special find no: 2692 Stratigraphic Phase: XCV Description: White glass	Context: 294ne Weight: 0.07g	Special find no: 2701 Stratigraphic Phase: XCV Description: Clear glass	Context: 294ne Weight: 0.01g
Special find no: 2710 Stratigraphic Phase: XCV Description: Clear glass	Context: 294ne Weight: 0.03g	Special find no: 2711 Stratigraphic Phase: XCV Description: Clear glass	Context: 294ne Weight: 0.02g
Special find no: 2720 Stratigraphic Phase: XCV Description: Clear glass	Context: 294ne Weight: 0.11g	Special find no: 2727 Stratigraphic Phase: XCV Description: White glass, with patina	Context: 294ne Weight: 0.17g
Special find no: 2747 Stratigraphic Phase: XCV Description: Yellow glass	Context: 368aw Weight: 0.74g	Special find no: 2765 Stratigraphic Phase: XCV Description: Pale green glass	Context: 294ne Weight: 2.08g
Special find no: 2770 Stratigraphic Phase: XCV Description: Clear glass	Context: 368ne Weight: 0.13g	Special find no: 2941 Stratigraphic Phase: XCII Description: Clear glass	Context: 365aw Weight: 0.11g
Special find no: 5061 Stratigraphic Phase: XCIII Description: Red glass	Context: 306ne Weight: 0.21g	Special find no: 5254 Stratigraphic Phase: XCV Description: Dark blue glass	Context: 296ne Weight: 1.11g
Special find no: 5256 Stratigraphic Phase: XCV Description: Dark blue glass	Context: 296ne Weight: 0.21g	Special find no: 5262 Stratigraphic Phase: XCV Description: Pale green glass	Context: 76ne Weight: 0.76g

Special find no: 5300 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 313sw Weight: 0.35g	Special find no: 5303 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 313sw Weight: 0.37g
Special find no: 5304 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 313sw Weight: 0.19g	Special find no: 5306 Stratigraphic Phase: XCI Description: <b>Clear glass</b>	Context: 385se Weight: 1.23g
Special find no: 5311 Stratigraphic Phase: u/s Description: <b>Clear glass</b>	Context: u/s Weight: 0.32g	Special find no: 5671 Stratigraphic Phase: XCV Description: <b>Dark blue glass, with patina</b>	Context: 313sw Weight: 0.25g
Special find no: 5672 Stratigraphic Phase: XCV Description: <b>Pale green glass, with patina</b>	Context: 313sw Weight: 0.16g	Special find no: 5673 Stratigraphic Phase: XCV Description: <b>White glass, with patina</b>	Context: 313sw Weight: 0.11g
Special find no: 5674 Stratigraphic Phase: XCV Description: <b>Clear glass, with patina</b>	Context: 290ne Weight: 0.04g	Special find no: 5675 Stratigraphic Phase: XCV Description: <b>Clear glass</b>	Context: 394sw Weight: 0.28g
Special find no: 5676 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 394sw Weight: 0.92g	Special find no: 5677 Stratigraphic Phase: XCV Description: <b>Clear glass, with patina</b>	Context: 313sw Weight: 2.96g
Special find no: 5678 Stratigraphic Phase: XCV Description: <b>Clear glass, with patina</b>	Context: 313sw Weight: 1.24g	Special find no: 5679 Stratigraphic Phase: XCV Description: <b>Clear glass, with patina</b>	Context: 313sw Weight: 0.43g
Special find no: 5680 Stratigraphic Phase: XCV Description: <b>White glass</b>	Context: 313sw Weight: 0.41g	Special find no: 5685 Stratigraphic Phase: XCIII Description: <b>Pale blue glass</b>	Context: 374sw Weight: 0.12g
Special find no: 5686 Stratigraphic Phase: XCIII Description: <b>Clear glass</b>	Context: 374sw Weight: 0.35g	Special find no: 5687 Stratigraphic Phase: XCI Description: <b>Clear glass</b>	Context: 385 Weight: 0.11g
Special find no: 5688 Stratigraphic Phase: XCI Description: <b>Clear glass</b>	Context: 425sw Weight: 0.61g	Special find no: 5689 Stratigraphic Phase: XCIII Description: <b>With patina</b>	Context: 73se Weight: 0.3g
Special find no: 5690 Stratigraphic Phase: XCV Description: <b>Clear glass, with patina</b>	Context: 283ne Weight: 0.22g	Special find no: 5691 Stratigraphic Phase: XCV Description: <b>White glass with patina</b>	Context: 283ne Weight: 0.26g
Special find no: 5692 Stratigraphic Phase: XCV Description: <b>Pale green glass, with patina</b>	Context: 283ne Weight: 0.04g	Special find no: 5693 Stratigraphic Phase: XCV Description: <b>Clear glass, with patina</b>	Context: 271se Weight: 0.72g
Special find no: 5694 Stratigraphic Phase: XCV Description: <b>White glass with patina</b>	Context: 271se Weight: 0.53g	Special find no: 5697 Stratigraphic Phase: XCV Description: <b>Pale blue glass, with patina</b>	Context: 271se Weight: 1.06g
Special find no: 5698 Stratigraphic Phase: XCV Description: <b>Pale green glass, with patina</b>	Context: 271se Weight: 0.15g	Special find no: 5700 Stratigraphic Phase: XCV Description: <b>Pale green glass, with patina</b>	Context: 313nw Weight: 0.71g
Special find no: 5701 Stratigraphic Phase: XCV Description: <b>Pale blue glass, with patina</b>	Context: 313nw Weight: 1.45g	Special find no: 5730 Stratigraphic Phase: XCIII Description: <b>Yellow glass</b>	Context: 363ne Weight: 0.02g
Special find no: 5731 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 359nw Weight: 0.03g	Special find no: 5774 Stratigraphic Phase: XCV Description: <b>Pale green glass</b>	Context: 367sw Weight: 0.37g
Special find no: 5775 Stratigraphic Phase: XCV Description: <b>Pale green glass, with patina</b>	Context: 367sw Weight: 0.19g	Special find no: 5786 Stratigraphic Phase: XCV Description: <b>White glass, with patina</b>	Context: 334ne Weight: 0.35g
Special find no: 5801 Stratigraphic Phase: XCV Description: <b>Dark green glass, with patina</b>	Context: 324ne Weight: 0.26g	Special find no: 5802 Stratigraphic Phase: XCV Description: <b>Pale blue glass</b>	Context: 324ne Weight: 0.27g
Special find no: 5807 Stratigraphic Phase: XCIII Description: <b>Pale blue glass, with patina</b>	Context: 345sw Weight: 0.08g	Special find no: 5862 Stratigraphic Phase: XCIII Description: <b>White glass</b>	Context: 369ne Weight: 1.17g
Special find no: 6197 Stratigraphic Phase: LXXXVI Description: <b>Pale blue glass</b>	Context: 376nw Weight: 0.12g	Special find no: 6200 Stratigraphic Phase: XCI Description: <b>Dark blue glass</b>	Context: 385se Weight: 2.38g

## Glass Objects

Special find no: <b>6223</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale blue glass</b>	Context: <b>313sw</b> Weight: <b>0.44g</b>	Special find no: <b>6238</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale blue glass</b>	Context: <b>313sw</b> Weight: <b>0.84g</b>
Special find no: <b>6239</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark blue glass</b>	Context: <b>313sw</b> Weight: <b>0.21g</b>	Special find no: <b>6281</b> Stratigraphic Phase: <b>XCI</b> Description: <b>Clear glass</b>	Context: <b>385se</b> Weight: <b>0.93g</b>
Special find no: <b>6309</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>394sw</b> Weight: <b>0.45g</b>	Special find no: <b>6315</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale blue glass</b>	Context: <b>394sw</b> Weight: <b>0.13g</b>
Special find no: <b>6362</b> Stratigraphic Phase: <b>XCI</b> Description: <b>Dark blue glass</b>	Context: <b>406sw</b> Weight: <b>0.37g</b>	Special find no: <b>6499</b> Stratigraphic Phase: <b>XCI</b> Description: <b>Red glass</b>	Context: <b>417nw</b> Weight: <b>0.04g</b>
Special find no: <b>6511</b> Stratigraphic Phase: <b>LXXXVIII</b> Description: <b>Clear glass</b>	Context: <b>409nw</b> Weight: <b>0.88g</b>	Special find no: <b>6800</b> Stratigraphic Phase: <b>LXXXVII</b> Description: <b>Dark blue glass</b>	Context: <b>437se</b> Weight: <b>1.09g</b>
Special find no: <b>6948</b> Stratigraphic Phase: <b>LXXXI</b> Description: <b>Pale blue glass</b>	Context: <b>487ne</b> Weight: <b>1.65g</b>	Special find no: <b>7027</b> Stratigraphic Phase: <b>LXXV</b> Description: <b>Dark blue glass</b>	Context: <b>492se</b> Weight: <b>0.8g</b>
Special find no: <b>7153</b> Stratigraphic Phase: <b>LXXV</b> Description: <b>White glass, with patina</b>	Context: <b>494ne</b> Weight: <b>0.26g</b>	Special find no: <b>8053</b> Stratigraphic Phase: <b>XCIII</b> Description: <b>White glass, with patina</b>	Context: <b>309nw</b> Weight: <b>1.26g</b>
Special find no: <b>8105</b> Stratigraphic Phase: <b>LXXV</b> Description: <b>Pale green glass</b>	Context: <b>492se</b> Weight: <b>0.13g</b>	Special find no: <b>8106</b> Stratigraphic Phase: <b>XCIII</b> Description: <b>White glass, with patina</b>	Context: <b>358se</b> Weight: <b>0.05g</b>
Special find no: <b>8633</b> Stratigraphic Phase: <b>XCII</b> Description: <b>Clear glass</b>	Context: <b>365</b> Weight: <b>0.86g</b>	Special find no: <b>8688</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass, with patina</b>	Context: <b>334ne</b> Weight: <b>1.35g</b>
Special find no: <b>8690</b> Stratigraphic Phase: <b>XCIII</b> Description: <b>Pale green glass</b>	Context: <b>370sw</b> Weight: <b>0.02g</b>	Special find no: <b>8691</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark blue glass, with patina</b>	Context: <b>158nw</b> Weight: <b>10.71g</b>
Special find no: <b>8692</b> Stratigraphic Phase: <b>XCII</b> Description: <b>Dark green (?) glass, with patina</b>	Context: <b>366sw</b> Weight: <b>0.22g</b>	Special find no: <b>8693</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pink glass, with patina</b>	Context: <b>354nw</b> Weight: <b>0.35g</b>
Special find no: <b>8694</b> Stratigraphic Phase: <b>XCIII</b> Description: <b>Clear glass, with patina</b>	Context: <b>358se</b> Weight: <b>1.12g</b>	Special find no: <b>8689</b> Stratigraphic Phase: <b>CIV</b> Description: <b>White glass, with patina</b>	Context: <b>26sw</b> Weight: <b>0.94g</b>
Special find no: <b>8818</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass, with patina</b>	Context: <b>42sw</b> Weight: <b>0.05g</b>	Special find no: <b>8819</b> Stratigraphic Phase: <b>XCIII</b> Description: <b>Black glass</b>	Context: <b>180nw</b> Weight: <b>1.2g</b>
Special find no: <b>8820</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass, with patina</b>	Context: <b>325sw</b> Weight: <b>0.15g</b>	Special find no: <b>8821</b> Stratigraphic Phase: <b>XCV</b> Description: <b>White glass, with patina</b>	Context: <b>149sw</b> Weight: <b>0.14g</b>
Special find no: <b>15794</b> Stratigraphic Phase: <b>LXXXV</b> Description: <b>Dark blue glass</b>	Context: <b>408sw</b> Weight: <b>0.2g</b>	Special find no: <b>15795</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark blue glass, with patina</b>	Context: <b>600</b> Weight: <b>1.24g</b>
Special find no: <b>15796</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass</b>	Context: <b>600</b> Weight: <b>0.79g</b>	Special find no: <b>15799</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark blue glass, with patina</b>	Context: <b>600</b> Weight: <b>0.41g</b>
Special find no: <b>15854</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Dark blue glass</b>	Context: <b>600</b> Weight: <b>1.15g</b>	Special find no: <b>16245</b> Stratigraphic Phase: <b>XCV</b> Description: <b>Pale green glass, with patina</b>	Context: <b>600</b> Weight: <b>0.98g</b>

### 7.3 Other objects

With the exception of the 4,897 beads, there were 98 finds of glass objects other than vessels or unformed lumps or ingots of glass (see Table 7.5). Eight categories of other glass objects were also classified, leaving glass beads as a separate category (see section 7.4 below). The categories defined were hair curls, ear reels, kohl sticks,

rings, plain bangles, spiral bangles, inlaid bangles and broken or unidentified objects. With the exception of a single fragment of ring found in period I and five in period G, the majority of finds of glass objects are restricted to period B, period C, D & E and period F. The objects make up a noticeably small weight category when



compared with those of glass vessels, beads and unformed glass.

### 7.3.1 Hair curls

These two special finds appear to be unique within the archaeology of Sri Lanka, and although sf 991 was recovered from period C, D & E, it seems likely that it originated from a similar context to sf 633 – that is, part of the pillared hall of period F. Both examples appear to be circular hair curls of dark blue glass from a Buddha figure. Both have circular holes in their undersides, presumably for attachment to a rod or dowel on the figure's head. It is possible that the figure was of glass, however it is equally possible that it belonged to a composite construction. Its presence in deposits dating to the first half of the first millennium AD suggests that South Asian glass-working was sufficiently advanced to produce such objects from moulds.

Special find no: 633                      Context: 176nw  
Stratigraphic Phase: XCII              Weight: 1.98g  
Description: Complete circular hair curl of dark blue glass. With patina.  
Dimensions 1.4cm base diameter, 0.9cm thick  
Comments: Circular hole in base (0.25cm diameter, 0.8cm deep) for attachment to rod.  
[Plate 7.2; Fig. 7.4]

Special find no: 991                      Context: 88ne  
Stratigraphic Phase: XCV                Weight: 0.89g  
Description: Incomplete (50%) circular hair curl of dark blue glass. With patina.  
Dimensions 1.4cm base diameter, 0.9cm thick  
Comments: Circular hole in base (0.25cm diameter, 0.8cm deep) for attachment to rod.

### 7.3.2 Ear reel

This object was most probably cast and may be compared with the ear reel from the Bhir Mound at Taxila (Marshall 1951: 690). Indeed, glass ear reels have been found at a variety of sites in both North and South India, dating from Mauryan times to the end of the Satavahana period (Dikshit 1969: 15–17). It may, however, represent a glass weight as it appears to be similar to Gaur's examples from Atranjikhera (Gaur 1983: 421–2).

Special find no: 5061                      Context: 306se  
Stratigraphic Phase: XCIII              Weight: 1.16g  
Description: Incomplete (50%) circular ear reel (?) of opaque dark red glass. With patina.  
Dimensions: 1.3cm diameter, 1.1cm thick

### 7.3.3 Kohl stick

I am very grateful to Ralph Pinder-Wilson for identifying the function of this object. Similar objects have been found sitting within small toilet flasks at Fustat in Egypt (Pinder-Wilson, pers. comm.).

Special find no: 214                      Context: 74sw  
Stratigraphic Phase: XCIV              Weight: 0.89g  
Description: Incomplete kohl stick of sea-green glass.  
Dimensions 2cm long, 0.45cm wide and 0.3cm thick  
Comments: D-shaped cross-section.  
[Fig. 7.4]

### 7.3.4 Rings

Seventeen fragments and one complete ring were recovered from the ASW2 excavations. Their stratigraphic distribution within the trench is quite wide, with a single fragment in period I, five in period G, three in period F, eight in period C, D & E and one in period B. The colours present – light blue, light green, dark blue, red, clear and amber – are noticeably less varied than those found in either bangles or beads.

Special find no: 779                      Context: 123ne  
Stratigraphic Phase: XCV                Weight: 0.94g  
Description: Incomplete finger ring of light blue glass.  
Dimensions: 25% survives; 0.9cm diameter, 0.25cm wide; 0.2cm thick  
Comments: D-shaped cross-section.

Special find no: 1186                      Context: 25ne  
Stratigraphic Phase: XCVII              Weight: 0.13g  
Description: Incomplete finger ring of light green glass.  
Dimensions: 30% survives; 0.6cm diameter, 0.15cm wide, 0.15cm thick  
Comments: D-shaped cross-section.

Special find no: 1402                      Context: 108nw  
Stratigraphic Phase: LXXIII              Weight: 0.23g  
Description: Incomplete finger ring of dark blue glass.  
Dimensions: 20% survives; 1.66cm diameter, 0.36cm wide, 0.23cm thick  
Comments: D-shaped cross-section.  
Special find no: 1698                      Context: 304ne  
Stratigraphic Phase: XCIII                Weight: 0.23g  
Description: Incomplete finger ring of light blue-green glass.  
Dimensions: 20% survives; 1cm diameter, 0.3cm wide; 0.25cm thick  
Comments: Circular cross-section.

Special find no: 2364                      Context: 324ne  
Stratigraphic Phase: XCV                Weight: 0.13g  
Description: Incomplete finger ring of light green glass.  
Dimensions: 0.28cm wide; 0.26cm thick  
Comments: D-shaped cross-section.

Special find no: 2516                      Context: 344nw  
Stratigraphic Phase: XCV                Weight: 0.5g  
Description: Incomplete finger ring of light blue-green glass.  
Dimensions: 0.5cm wide; 0.3cm thick  
Comments: D-shaped cross-section.

Special find no: 5364                      Context: 416ne  
Stratigraphic Phase: XCI                Weight: 0.24g  
Description: Incomplete finger ring of light green glass.  
Dimensions: 0.24cm wide; 0.24cm thick  
Comments: D-shaped cross-section.

Special find no: 6016                      Context: 364ne  
Stratigraphic Phase: XCII                Weight: 0.88g  
Description: Incomplete finger ring of red glass.  
Dimensions: 0.38cm wide; 0.38cm thick  
Comments: D-shaped cross-section.

Special find no: 6017                      Context: 365nw  
Stratigraphic Phase: XCII                Weight: 0.28g  
Description: Incomplete finger ring of red glass.  
Dimensions: 0.31cm wide; 0.31cm thick  
Comments: D-shaped cross-section.

Special find no: 6360                      Context: 390se  
Stratigraphic Phase: XCV                Weight: 0.3g  
Description: Incomplete finger ring of dark blue glass.  
Dimensions: 0.31cm wide, 0.31cm thick  
Comments: D-shaped cross-section.

Special find no: 6519                      Context: 409nw  
Stratigraphic Phase: XCV                Weight: 1.25g  
Description: Incomplete finger ring of clear glass.  
Dimensions: 0.28cm wide, 0.45cm thick

Comments: **D-shaped cross-section.**

Special find no: **6623** Context: **426ne**  
 Stratigraphic Phase: **XCV** Weight: **2.87g**  
 Description: **Incomplete finger ring of clear glass.**  
 Dimensions: **0.6cm wide; 0.6cm thick**  
 Comments: **D-shaped cross-section.**

Special find no: **6726** Context: **425sw**  
 Stratigraphic Phase: **XCI** Weight: **2.87g**  
 Description: **Incomplete or uncompleted finger ring of amber glass.**  
 Dimensions: **50% survives; unclear diameter, 0.1–0.3cm wide; 0.1–0.3cm thick**  
 Comments: **Varying cross-section.**  
 [Fig. 7.4]

Special find no: **7148** Context: **494ne**  
 Stratigraphic Phase: **LXXV** Weight: **0.81g**  
 Description: **Complete finger ring of light blue glass.**  
 Dimensions: **100% survives; 0.9cm diameter, 0.3cm wide; 0.25cm thick**  
 Comments: **D-shaped cross-section.**

Special find no: **10148** Context: **635nw**  
 Stratigraphic Phase: **LXXIII** Weight: **0.23g**  
 Description: **Incomplete finger ring of light blue glass.**  
 Dimensions: **20% survives; 1.66cm diameter, 0.36cm wide, 0.23cm thick**  
 Comments: **D-shaped cross-section.**

Special find no: **10238** Context: **714sw**  
 Stratigraphic Phase: **LIV** Weight: **0.36g**  
 Description: **Incomplete finger ring of dark blue glass.**  
 Dimensions: **25% survives; 2.4cm diameter, 0.37cm wide, 0.22cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **15015** Context: **600**  
 Stratigraphic Phase: **XCV** Weight: **0.11g**  
 Description: **Incomplete finger ring of dark blue glass.**  
 Dimensions: **25% survives; 0.45cm wide, 0.23cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **15861** Context: **630nw**  
 Stratigraphic Phase: **LXXVI** Weight: **0.23g**  
 Description: **Incomplete finger ring of pale green glass.**  
 Dimensions: **50% survives; 1.4cm diameter, 0.28cm wide, 0.23cm thick**  
 Comments: **D-shaped cross-section**

### 7.3.5 Bangles

The bangles from ASW2 can be subdivided into three groups: plain bangles, twisted bangles and decorated bangles. While plain, monochrome bangles appear to be found throughout periods F to B, it is interesting to note that spiral bangles are a relatively early phenomenon and inlaid ones a later one. This general pattern appears to be confirmed elsewhere. Similar spiral or twisted bangles were found as early as the first century AD in the valley of Taxila (Marshall 1951) while, when polychrome bangles clearly date from the beginning of the millennium (Dikshit 1969: 34), many are evidently of Satavahana date. Analogies with the latter are probably supported by the similarities between the ASW2 inlaid examples and those from Nevasa (ibid.: fig. 10.14).

#### 7.3.5.1 Plain bangles

Fifty-four fragments of plain glass bangles were recovered from trench ASW2. They appear to be a relatively late phenomenon as 4 of them were recovered from period F, 37 from period C, D & E, 12 from period B and 1 from period A. Typically they were

manufactured in dark blue or black glass, although there was one light green, one dark green, two light blue, one light turquoise and one yellow example. Special find 611 represented a slight anomaly to the classification as it was a hollow tube of light blue glass. While the latter may be similar to late examples from Abhayagiri (Wickramagamage *et al.* 1984: 367) and the Citadel's southern gateway (Ueyama and Nozaki 1993: 96), the former are fairly undiagnostic.

Special find no: **45** Context: **9se**  
 Stratigraphic Phase: **CVI** Weight: **2g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **60% survives; 1.8cm diameter, 0.65cm wide, 0.4cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **100** Context: **27se**  
 Stratigraphic Phase: **C** Weight: **3g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **25% survives; 2cm diameter, 0.8cm wide, 0.4cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **140** Context: **48se**  
 Stratigraphic Phase: **XCVIII** Weight: **3g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **40% survives; 2cm diameter, 0.55cm wide, 0.4cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **169** Context: **41se**  
 Stratigraphic Phase: **C** Weight: **1.5g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **15% survives; 2cm diameter, 0.8cm wide, 0.45cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **170** Context: **55ne**  
 Stratigraphic Phase: **XCVI** Weight: **1.5g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **50% survives; 1.5cm diameter, 0.45cm wide, 0.35cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **207** Context: **55ne**  
 Stratigraphic Phase: **XCVI** Weight: **2g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **50% survives; 2cm diameter, 0.45cm wide, 0.35cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **280** Context: **51nw**  
 Stratigraphic Phase: **XCIX** Weight: **1g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **25% survives; 2cm diameter, 0.4cm wide, 0.2cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **338** Context: **130sw**  
 Stratigraphic Phase: **XCV** Weight: **0.5g**  
 Description: **Incomplete bangle of opaque light green glass.**  
 Dimensions: **0.45cm wide, 0.3cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **607** Context: **56sw**  
 Stratigraphic Phase: **XCV** Weight: **4g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **35% survives; 1.85cm diameter, 0.4cm wide, 0.3cm thick**  
 Comments: **D-shaped cross-section**

Special find no: **608** Context: **5aw**  
 Stratigraphic Phase: **CXII** Weight: **1g**  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **25% survives; 1.9cm diameter, 0.4cm wide, 0.25cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 609 Context: 56sw  
Stratigraphic Phase: XCV Weight: 0.5g  
Description: Incomplete bangle of dark blue glass.  
Dimensions: 10% survives; 2cm diameter, 0.5cm wide, 0.45cm thick  
Comments: D-shaped cross-section

Special find no: 610 Context: 11sw  
Stratigraphic Phase: CX Weight: 2g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 0.7cm wide, 0.6cm thick  
Comments: D-shaped cross-section

Special find no: 611 Context: 4se  
Stratigraphic Phase: CXIV Weight: 5.5g  
Description: Incomplete hollow tubular bangle of light blue glass.  
Dimensions: 15% survives; 3cm diameter, 1.3cm wide, 1.2cm thick  
Comments: Circular cross-section

Special find no: 615 Context: 123se  
Stratigraphic Phase: XCV Weight: 1g  
Description: Incomplete bangle of opaque dark green glass; with patina.  
Dimensions: 1cm wide, 0.7cm thick  
Comments: D-shaped cross-section

Special find no: 657 Context: 184ne  
Stratigraphic Phase: XCV Weight: 1.5g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 25% survives; 2cm diameter, 0.4cm wide, 0.3cm thick  
Comments: D-shaped cross-section

Special find no: 665 Context: 181se  
Stratigraphic Phase: XCV Weight: 1g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 0.45cm wide, 0.35cm thick  
Comments: D-shaped cross-section

Special find no: 743 Context: 134ne  
Stratigraphic Phase: XCV Weight: 1g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 20% survives; 2cm diameter, 0.4cm wide, 0.3cm thick  
Comments: D-shaped cross-section

Special find no: 1130 Context: 151se  
Stratigraphic Phase: XCV Weight: 2.09g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 10% survives; 3cm diameter, 0.7cm wide, 0.45cm thick  
Comments: D-shaped cross-section

Special find no: 1136 Context: 26sw  
Stratigraphic Phase: CIV Weight: 1.32g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 40% survives; 2cm diameter, 0.35cm wide, 0.25cm thick  
Comments: D-shaped cross-section

Special find no: 1187 Context: 25ne  
Stratigraphic Phase: XCVII Weight: 0.73g  
Description: Incomplete bangle of opaque light turquoise blue glass.  
Dimensions: 0.5cm wide, 0.45cm thick  
Comments: D-shaped cross-section

Special find no: 1188 Context: 25ne  
Stratigraphic Phase: XCVII Weight: 0.34g  
Description: Incomplete bangle of light blue glass.  
Dimensions: 0.5cm wide, 0.4cm thick  
Comments: D-shaped cross-section

Special find no: 1189 Context: 25ne  
Stratigraphic Phase: XCV Weight: 0.36g  
Description: Incomplete bangle of light blue glass.  
Dimensions: 0.5cm wide, 0.4cm thick  
Comments: D-shaped cross-section

Special find no: 1244 Context: 76ne  
Stratigraphic Phase: XCV Weight: 0.38g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 0.6cm wide, 0.35cm thick  
Comments: D-shaped cross-section

Special find no: 1245 Context: 76ne  
Stratigraphic Phase: XCV Weight: 0.12g  
Description: Incomplete bangle of opaque patinated glass.  
Dimensions: 0.4cm wide, 0.2cm thick  
Comments: D-shaped cross-section

Special find no: 1363 Context: 80nw  
Stratigraphic Phase: XCV Weight: 0.25g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 0.35cm wide, 0.3cm thick  
Comments: D-shaped cross-section

Special find no: 1397 Context: 123se  
Stratigraphic Phase: XCV Weight: 1.02g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 20% survives; 2cm diameter, 0.5cm wide, 0.4cm thick  
Comments: D-shaped cross-section

Special find no: 1405 Context: 56se  
Stratigraphic Phase: XCV Weight: 0.19g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 0.5cm wide, 0.45cm thick  
Comments: D-shaped cross-section

Special find no: 1607 Context: 271se  
Stratigraphic Phase: XCV Weight: 0.6g  
Description: Incomplete bangle of opaque light green glass.  
Dimensions: 15% survives; 2cm diameter, 0.4cm wide, 0.3cm thick  
Comments: D-shaped cross-section

Special find no: 1613 Context: 271se  
Stratigraphic Phase: XCV Weight: 2g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 0.7cm wide, 0.4cm thick  
Comments: D-shaped cross-section

Special find no: 1649 Context: 283ne  
Stratigraphic Phase: XCV Weight: 0.79g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 0.9cm wide, 0.3cm thick  
Comments: D-shaped cross-section

Special find no: 1721 Context: 309ne  
Stratigraphic Phase: XCIII Weight: 2g  
Description: Incomplete bangle of opaque yellow glass.  
Dimensions: 20% survives; 2cm diameter, 0.45cm wide, 0.4cm thick  
Comments: D-shaped cross-section

Special find no: 1770 Context: 301ne  
Stratigraphic Phase: XCV Weight: 3g  
Description: Incomplete bangle of opaque light green glass.  
Dimensions: 45% survives; 2cm diameter, 0.4cm wide, 0.3cm thick  
Comments: D-shaped cross-section

Special find no: 1779 Context: 316ne  
Stratigraphic Phase: XCV Weight: 0.23g  
Description: Incomplete bangle of opaque light green glass.  
Comments: Fragment.

Special find no: 1820 Context: 316ne  
Stratigraphic Phase: XCV Weight: 1.42g  
Description: Incomplete bangle of light green glass (outside is ground opaque).  
Dimensions: 0.6cm diameter  
Comments: Rounded cross-section

Special find no: 1888 Context: 332se  
Stratigraphic Phase: XCV Weight: 0.77g  
Description: Incomplete bangle of opaque dark blue glass.  
Dimensions: 20% survives; 2cm diameter, 0.4cm wide, 0.25cm thick  
Comments: D-shaped cross-section

Special find no: 1897 Context: 332se  
Stratigraphic Phase: XCV Weight: 0.84g  
Description: Incomplete bangle of opaque yellow glass.  
Comments: Fragment.

Special find no: 1898 Context: 332se  
Stratigraphic Phase: XCV Weight: 0.3g

Description: **Incomplete bangle of opaque light green glass.**  
 Dimensions: **0.35cm wide, 0.2cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 1922 Context: 334ne  
 Stratigraphic Phase: XCV Weight: 0.5g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **0.4cm wide, 0.2cm thick**  
 Comments: **Rounded cross-section**

Special find no: 2119 Context: 320ne  
 Stratigraphic Phase: XCV Weight: 0.28g  
 Description: **Incomplete bangle of opaque light green glass.**  
 Dimensions: **0.5cm wide, 0.4cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 2120 Context: 316ne  
 Stratigraphic Phase: XCV Weight: 1.13g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **45% survives; 2cm diameter, 0.35cm wide, 0.25cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 2125 Context: 301ne  
 Stratigraphic Phase: XCV Weight: 1.04g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **20% survives; 2cm diameter, 0.5cm wide, 0.3cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 2131 Context: 307se  
 Stratigraphic Phase: XCIII Weight: 0.32g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **0.9cm wide, 0.35cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 2198 Context: 320ne  
 Stratigraphic Phase: XCV Weight: 0.14g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **0.4cm wide, 0.3cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 2352 Context: 262se  
 Stratigraphic Phase: XCV Weight: 1.4g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **20% survives; 2cm diameter, 0.55cm wide, 0.4cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 2743 Context: 363ne  
 Stratigraphic Phase: XCIII Weight: 0.56g  
 Description: **Incomplete bangle of opaque light green glass.**  
 Comments: **Fragment.**

Special find no: 2781 Context: 365nw  
 Stratigraphic Phase: XCII Weight: 1.6g  
 Description: **Incomplete bangle of opaque turquoise blue glass.**  
 Dimensions: **10% survives; 2cm diameter**  
 Comments: **Circular cross-section**

Special find no: 2794 Context: 296ne  
 Stratigraphic Phase: XCV Weight: 0.26g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **0.4cm wide, 0.3cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 5670 Context: 356ne  
 Stratigraphic Phase: XCV Weight: 0.73g  
 Description: **Incomplete hollow bangle of light blue glass.**  
 Comments: **Fragment.**

Special find no: 5844 Context: 313sw  
 Stratigraphic Phase: XCV Weight: 0.51g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **0.4cm wide, 0.3cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 6241 Context: 313sw  
 Stratigraphic Phase: XCV Weight: 0.85g  
 Description: **Incomplete bangle of opaque dark blue glass.**

Dimensions: **25% survives; 2cm diameter, 0.25cm wide, 0.25cm thick**

Comments: **D-shaped cross-section**  
 [Fig. 7.4]

Special find no: 6242 Context: 313sw  
 Stratigraphic Phase: XCV Weight: 1.46g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **0.6cm wide, 0.4cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 6244 Context: 313sw  
 Stratigraphic Phase: XCV Weight: 0.96g  
 Description: **Incomplete bangle of light blue-green glass.**  
 Dimensions: **10% survives; 2.5cm diameter, 0.55cm wide, 0.45cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 8022 Context: 410sw  
 Stratigraphic Phase: XCV Weight: 0.51g  
 Description: **Incomplete bangle of opaque dark blue glass.**  
 Dimensions: **0.5cm wide, 0.4cm thick**  
 Comments: **D-shaped cross-section**

Special find no: 15854 Context: 600  
 Stratigraphic Phase: XCV Weight: 1.15g  
 Description: **Incomplete ribbed bangle of opaque turquoise-blue glass.**  
 Dimensions: **2.2cm wide and 0.5–0.2cm thick**  
 Comments: **D-shaped cross-section**

### 7.3.5.2 Spiral bangles

In comparison with the plain bangles, the spiral or twisted bangles appear to form more of a useful group in terms of dating. A total of seven spiral bangles were recovered from ASW2, three from structural period F and four from the fills of robber pits belonging to the next period, C, D & E. All three 'in situ' spiral or twisted bangles were recovered from among the votive deposits of period F's stone pillars. Four similar artefacts were found at the southern gateway, albeit from some of the youngest contexts at the location (Ueyama and Nozaki 1993: 96). Although this category of bangle is absent from the excavation reports from Sigiriya, Abhayagiri and Jetavana, some late examples have also been found at Polonnaruwa, although they appear to be more of a segmented form rather than twisted or spiral (Prematilleke 1982a: 66; 1985: 99).

Special find no: 1786 Context: 301ne  
 Stratigraphic Phase: XCV Weight: 1.13g  
 Description: **Incomplete spiral bangle of opaque light green glass.**  
 Dimensions: **0.9cm wide and thick**  
 Comments: **Circular cross-section**  
 [Fig. 7.4]

Special find no: 1846 Context: 326ne  
 Stratigraphic Phase: XCV Weight: 1.54g  
 Description: **Incomplete spiral bangle of opaque dark turquoise-blue glass.**  
 Dimensions: **0.9cm wide and thick**  
 Comments: **Circular cross-section**

Special find no: 1858 Context: 324ne  
 Stratigraphic Phase: XCV Weight: 0.92g  
 Description: **Incomplete spiral bangle of opaque sea-green glass.**  
 Dimensions: **15% survives; 2cm diameter, 0.5cm wide and thick**  
 Comments: **Circular cross-section**

Special find no: 1859 Context: 368nw  
 Stratigraphic Phase: XCV Weight: 2.14g  
 Description: **Incomplete spiral bangle of opaque dark turquoise-blue glass.**

Dimensions: 20% survives; 2cm diameter, 0.7cm wide and thick  
Comments: Circular cross-section  
[Fig. 7.4]

Special find no: 3542 Context: 369se  
Stratigraphic Phase: XCIII Weight: 1.42g  
Description: Fragments of incomplete spiral bangle of opaque light green glass.  
Comments: Circular cross-section

Special find no: 5264 Context: 363ne  
Stratigraphic Phase: XCIII Weight: 4.08g  
Description: Incomplete spiral bangle of opaque light green glass.  
Dimensions: 15% survives; 2cm diameter, 0.8cm wide and thick  
Comments: Circular cross-section

Special find no: 5265 Context: 363ne  
Stratigraphic Phase: XCIII Weight: 10.86g  
Description: Incomplete spiral bangle of opaque dark grey-green glass.  
Dimensions: 75% survives; 2cm diameter, 0.8cm wide and thick  
Comments: Circular cross-section  
[Plate 7.2]

### 7.3.5.3 Inlaid, layered and threaded bangles

Polychrome bangles clearly date from the beginning of the millennium (Dikshit 1969: 34), although the examples from Anuradhapura are undoubtedly later, perhaps even of Satavahana date, if one draws analogies with a similar bangle from Nevasa (ibid.: fig. 10.14). The closest analogies for our polychrome bangles must be those from Maski (ibid.: fig. 14.1) and Nevasa (ibid.: plate B.9 and 10; Sankalia 1960: fig. 193.2-6). Although at the latter site 80 of the 107 fragments of polychrome bangles were recovered from Period VI, the balance of 27 came from the preceding period – the later Early Historic (Sankalia 1960: 446-7). Twelve bangles belonging to this bangle category were recovered from trench ASW2: eight from the disturbed fills of period C, D & E, three from period B and a single redeposited example from period A.

Special find no: 141 Context: 41sw  
Stratigraphic Phase: C Weight: 0.4g  
Description: Incomplete bangle of amber glass with inlaid threads of opaque yellow glass on exterior surface.  
Dimensions: 1.1cm wide, 0.5cm thick  
Comments: D-shaped cross-section

Special find no: 149 Context: 41ne  
Stratigraphic Phase: C Weight: 2g  
Description: Incomplete bangle of amber glass with narrow band of opaque yellow glass on exterior surface.  
Dimensions: 35% survives; 2cm diameter, 0.6cm wide, 0.4cm thick  
Comments: D-shaped cross-section

Special find no: 252 Context: 56sw  
Stratigraphic Phase: CX Weight: 1.3g  
Description: Incomplete bangle of amber glass with narrow band of opaque yellow glass on exterior surface.  
Dimensions: 0.3cm wide, 0.25cm thick  
Comments: D-shaped cross-section

Special find no: 606 Context: 4nw  
Stratigraphic Phase: CXIV Weight: 5g  
Description: Incomplete bangle of opaque dark blue glass with thin parallel threads of opaque yellow glass on surface.  
Dimensions: 35% survives; 2cm diameter, 1.4cm wide, 0.45cm thick  
Comments: D-shaped cross-section

Special find no: 616 Context: 123se  
Stratigraphic Phase: XCV Weight: 0.5g

Description: Incomplete bangle of opaque dark blue glass with thin parallel threads of opaque yellow glass on surface.  
Dimensions: 0.1cm wide, 0.4cm thick  
Comments: D-shaped cross-section  
[Plate 1.3]

Special find no: 830 Context: 26ne  
Stratigraphic Phase: CIV Weight: 0.3g  
Description: Incomplete bangle of opaque dark blue glass with thin parallel threads of opaque yellow glass on surface.  
Comments: Fragment.

Special find no: 1261 Context: 166se  
Stratigraphic Phase: XCV Weight: 1.85g  
Description: Incomplete bangle of opaque dark blue glass with thin parallel threads of opaque yellow glass on surface.  
Dimensions: 0.8cm wide, 0.4cm thick  
Comments: D-shaped cross-section

Special find no: 1401 Context: 107nw  
Stratigraphic Phase: XCV Weight: 0.33g  
Description: Incomplete bangle of opaque dark blue glass with inlaid threads of opaque yellow glass on exterior surface.  
Dimensions: 0.7cm wide, 0.45cm thick  
Comments: D-shaped cross-section

Special find no: 1543 Context: 253nw  
Stratigraphic Phase: XCV Weight: 1.33g  
Description: Incomplete bangle of amber glass with inlaid threads of opaque yellow glass on exterior surface.  
Dimensions: 0.85cm wide, 0.45cm thick  
Comments: D-shaped cross-section

Special find no: 1602 Context: 273se  
Stratigraphic Phase: XCV Weight: 2.88g  
Description: Incomplete bangle of amber glass with inlaid threads of opaque yellow glass on exterior surface.  
Dimensions: 20% survives; 2cm diameter, 0.9cm wide, 0.5cm thick  
Comments: D-shaped cross-section  
[Plate 1.3; Fig. 7.4]

Special find no: 1875 Context: 325ne  
Stratigraphic Phase: XCV Weight: 0.39g  
Description: Incomplete bangle of opaque dark blue glass with inlaid threads of opaque yellow glass on exterior surface.  
Dimensions: 0.8cm wide, 0.45cm thick  
Comments: D-shaped cross-section  
[Fig. 7.4]

Special find no: 6245 Context: 313sw  
Stratigraphic Phase: XCV Weight: 2.62g  
Description: Incomplete bangle of opaque amber glass with inlaid threads of opaque yellow glass on exterior surface.  
Dimensions: 1cm wide, 0.5cm thick  
Comments: D-shaped cross-section

### 7.3.6 Unidentified objects

Three artefacts fall into this category: sfs 1338, 1339 and 6587. The first two clearly fit together, forming a semicircular object of clear, dark blue glass. The function of the completed object remains unclear, but it may perhaps represent a moulded portion of a vessel? The function of sf 6587 remains unknown, although it may represent inlay or even be partially reworked.

Special find no: 1338 Context: 158aw  
Stratigraphic Phase: XCV Weight: 0.89g  
Description: Incomplete (50%) semicircular object of dark blue glass.  
Dimensions: 1.3cm long, 1cm wide and 0.6cm thick  
Comments: Joints of 1339.

Special find no: 1339 Context: 158aw  
Stratigraphic Phase: XCV Weight: 0.89g

Description: **Incomplete (50%) semicircular object of dark blue glass.**  
 Dimensions: **1.3cm long, 1cm wide and 0.6cm thick**  
 Comments: **Joins sf 1338.**

Special find no: **6587** Context: **426ne**  
 Stratigraphic Phase: **LXXXVIII** Weight: **4g**  
 Description: **Badly patinated triangular-shaped fragment of glass object.**

## 7.4 Glass beads

Glass beads form one of the largest categories of special finds from ASW2 (see Table 7.1). A total of 4,897 glass beads were recovered, about half of this number (2,120) coming from the hoard at pillar foundation 370 from period F. While each bead from other contexts is described in full in Appendix A, only the general trends in colour and shape will be discussed here. The beads from these two sources have been kept separate in the present discussions, as it is feared that the hoard will skew the overall results. This single deposit of 2,120 glass beads may consist of collections of varying ages amalgamated for a ritual deposit, while those listed in Appendix A are held to represent phased depositions. The majority of the 2,277 beads in Appendix A are monochrome in colour and only 25 are polychrome; generally the monochrome examples are earlier (see Plate 1.3 and Table 7.8). Red, representing just under half the beads, was the most commonly occurring monochrome colour in the objects in Appendix A, with pale green second (447). Orange was the third most common colour (288), followed by pale blue (163), yellow (147), dark blue (92), dark green (58), white (54), brown (45) and black (36). The two rarest colours were purple and transparent glass, with four examples of each. Red, orange, and pale and dark blue are the earliest occurring glass beads at ASW2 in period J. This rather limited spectrum is widened in the next period, I, to include black and brown. White is added in period H. The great expansion of colours occurs in period G when a total of 14 colours are found; these include red, orange, pale blue, dark blue, black brown, white, dark green, light green, yellow, transparent and the first two polychrome examples. It is interesting to note that the relatively late appearance of beads of green and yellow glass correlates with that of bangles of the same colour. Purple glass beads only occur during the period C, D & E. As mentioned above, the polychrome examples are late in date, as only four were found in periods F and G. While only infrequent examples of green and white, blue and white, black and white, red and white, or blue and yellow beads were found, most were light green and yellow. Their stratigraphic distribution is similar to that of inlaid bangles of similar glass. Table 7.9 contains the colour distribution of 2,120 glass beads from the hoard found in the foundations of period F. Only two were not monochrome, one being green and clear, the other green and yellow. The distribution of these polychrome beads is generally in agreement with the distribution of similar examples from period F in Table 7.8. The monochrome colours are also in agreement with the beads of Appendix A.

The earliest bead shapes or forms at ASW2 are found in period J, none having been found in the

preceding period, K (see Table 7.6). Of the 22 beads, 15 were discs, 4 were spherical discs, 1 was tubular, 1 a hexagonal prism and 1 an unpierced rod or cane. It seems likely that the disc beads were in fact manufactured by cutting tubular pierced beads into sections. In the next two periods, I and H, we see a gradual growth in the number of beads but the addition of only one new shape, the faceted bead, while period G represents an explosion of new shapes as well as much larger numbers. The majority of period G's 742 beads are either discs or spherical discs, but new shapes include spheres, elliptical and barrel forms, notched prisms and a rectangular spacer. In addition, the first appearance of collared beads occurs during this structural period, although it may be possible that squashed collared spheres are just misshapen collared spheres. Possible indications of manufacturing may be represented by the unperforated sphere and the unseparated or segmented spheres. The expansion of shapes continues during period F with the appearance of notched and collared spheres, collared triangular barrels and triangular spacers. The earlier pre-eminence of discs is taken over by spherical discs in this period. The expansion halts during period C, D & E and declines during period B in terms of shapes and numbers. It is also noticeable that, while some of the earlier forms continue in use, the collared shapes generally are far rarer. The ringed sphere, however, appears to be a new form. An indication of the dangers of re-using beads and their long survival can be found in the presence of six relatively early forms in the disturbed levels of period A. The glass beads from the hoard in context 370 of period F again confirm the general phased distributions of shapes (see Table 7.7). The majority of the beads identified are spherical discs, however collared examples and spacers are also present. Please refer to Appendix A and figures 7.2 and 7.3 for illustrations of the different bead forms.

## 7.5 Unformed and ingot glass

The excavations at ASW2 yielded 96 examples of unformed glass (see Table 7.10). They form a relatively late group, with the earliest finds in period G but the majority in periods F and C, D & E. These objects range in size from tiny opaque scraps to a sizeable ingot, sf 2825, weighing 58.41 g. Their presence within the trench is very interesting as it suggests that the working of glass, albeit on a small scale, might have actually occurred on site, as glass is usually manufactured either from fresh raw resources or, more generally, by using glass scraps or cullet. The trade in unformed glass is not to be underestimated. For example, the Serce Limani shipwreck of the eleventh century AD discovered off the Turkish coast was carrying complete glass vessels (over 200 different shapes were noted) as well as unformed glass and even perhaps cullet. It has been suggested that this cargo was in transit from Syria to the Black Sea and intended for Byzantine glass-makers (Kroger 1995: 8; Bass and van Doorninck 1978: 124–31). Earlier evidence for such mixing has already been illustrated by the results of the analysis of five glass roundels found in Gandhara; this analysis suggested a Roman source for three roundels, a Near Eastern or Mediterranean source for a

fourth, and an unknown source for the fifth (Wypyski 1992: 283). Wypyski suggested that the unusual composition of the fifth glass might have been due to its manufacture from a mixture of scrap or broken glass from a variety of sources, as such fragments were often melted down into blocks or ingots to be remelted and reformed (ibid.: 283). While we identified one such ingot at ASW2 (sf 2825), Marshall found a number at Sirkap

(Marshall 1951: 690), where he discovered a hoard of 392 lenticular pieces which he identified as “rough flans” for making glass beads”. A further find of “three lumps of brilliant red opaque glass in crude state” probably performed a similar function (ibid.). The ingot from ASW2, sf 2825, is of particular importance as it still bears the impressions of the semicircular crucible in which it was cooled.

Special find no: 135  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 44se  
Weight: 5g

Special find no: 220  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 82nw  
Weight: 17.39g

Special find no: 318  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 70ne  
Weight: 0.1g

Special find no: 433  
Stratigraphic Phase: XCV  
Description: **Pale green**

Context: 134ne  
Weight: 6.84g

Special find no: 458  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 134ne  
Weight: 1.76g

Special find no: 470  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 134ne  
Weight: 0.91g

Special find no: 622  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 56sw  
Weight: 1.39g

Special find no: 782  
Stratigraphic Phase: XCV  
Description: **Pale blue**

Context: 56sw  
Weight: 1.83g

Special find no: 834  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 134ne  
Weight: 0.2g

Special find no: 865  
Stratigraphic Phase: XCIV  
Description: **Dark blue**

Context: 74sw  
Weight: 0.07g

Special find no: 911  
Stratigraphic Phase: XCV  
Description: **Pale green**

Context: 56sw  
Weight: 0.33g

Special find no: 1044  
Stratigraphic Phase: C  
Description: **Dark blue**

Context: 41sw  
Weight: 1.69g

Special find no: 1058  
Stratigraphic Phase: C  
Description: **Pale blue**

Context: 41sw  
Weight: 0.17g

Special find no: 1060  
Stratigraphic Phase: C  
Description: **Pale blue**

Context: 41sw  
Weight: 0.24g

Special find no: 1098  
Stratigraphic Phase: XCIII  
Description: **Pale green**

Context: 73sw  
Weight: 1.69g

Special find no: 1106  
Stratigraphic Phase: XCV  
Description: **Pale blue**

Context: 123se  
Weight: 0.04g

Special find no: 1404  
Stratigraphic Phase: XCV  
Description: **Pale blue**

Context: 175nw  
Weight: 2.01g

Special find no: 177  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 61ne  
Weight: 0.42g

Special find no: 312  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 126se  
Weight: 0.65g

Special find no: 370  
Stratigraphic Phase: XCV  
Description: **Pale green**

Context: 4nw  
Weight: 30.82g

Special find no: 440  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 134ne  
Weight: 1.04g

Special find no: 462  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 134ne  
Weight: 3g

Special find no: 613  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 123se  
Weight: 0.2g

Special find no: 724  
Stratigraphic Phase: XCV  
Description: **Pale green**

Context: 214ne  
Weight: 1.33g

Special find no: 832  
Stratigraphic Phase: CXII  
Description: **Dark blue**

Context: 5nw  
Weight: 0.6g

Special find no: 838  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 104nw  
Weight: 0.6g

Special find no: 897  
Stratigraphic Phase: XCV  
Description: **Dark blue**

Context: 134se  
Weight: 0.7g

Special find no: 996  
Stratigraphic Phase: CXII  
Description: **Dark blue**

Context: 5nw  
Weight: 2.27g

Special find no: 1057  
Stratigraphic Phase: CWeight: 0.56g  
Description: **Pale blue**

Context: 41sw

Special find no: 1059  
Stratigraphic Phase: CWeight: 0.9g  
Description: **Pale blue**

Context: 41sw

Special find no: 1061  
Stratigraphic Phase: CWeight: 0.05g  
Description: **Pale blue**

Context: 41sw

Special find no: 1099  
Stratigraphic Phase: CX  
Description: **Pale blue**

Context: 19sw  
Weight: 0.79g

Special find no: 1385  
Stratigraphic Phase: XCV  
Description: **Pale blue**

Context: 190nw  
Weight: 1.54g

Special find no: 1408  
Stratigraphic Phase: XCV  
Description: **Pale blue**

Context: 123se  
Weight: 0.5g

# Glass Objects

Special find no: 1421 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 182se Weight: 0.3g	Special find no: 1426 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 157se Weight: 0.25g
Special find no: 1416 Stratigraphic Phase: XCIII Description: <b>clear</b>	Context: 200sw Weight: 3.33g	Special find no: 1430 Stratigraphic Phase: XCVI Description: <b>Pale blue</b>	Context: 83sw Weight: 0.3g
Special find no: 1431 Stratigraphic Phase: XCVI Description: <b>Pale green</b>	Context: 83sw Weight: 0.42g	Special find no: 1529 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 252sw Weight: 0.12g
Special find no: 1570 Stratigraphic Phase: XCV Description: <b>Dark green</b>	Context: 262se Weight: 7.99g	Special find no: 1583 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 263nw Weight: 0.11g
Special find no: 1618 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 284nw Weight: 0.41g	Special find no: 1634 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 256se Weight: 0.59g
Special find no: 1661 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 256se Weight: 0.08g	Special find no: 1663 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 287ne Weight: 0.17g
Special find no: 1730 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 272se Weight: 1.22g	Special find no: 1764 Stratigraphic Phase: XCV Description: <b>Clear</b>	Context: 316ne Weight: 0.11g
Special find no: 1772 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 316ne Weight: 0.09g	Special find no: 1774 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 316ne Weight: 0.05g
Special find no: 1791 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 316ne Weight: 0.06g	Special find no: 1821 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 316ne Weight: 0.01g
Special find no: 1842 Stratigraphic Phase: XCV Description: <b>Black</b>	Context: 270se Weight: 6.82g	Special find no: 1855 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 331se Weight: 0.46g
Special find no: 1884 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 332se Weight: 0.05g	Special find no: 1990 Stratigraphic Phase: XCV Description: <b>Pale green</b>	Context: 334ne Weight: 0.35g
Special find no: 1962 Stratigraphic Phase: XCIII Description: <b>Pale blue</b>	Context: 73sw Weight: 3.1g	Special find no: 1997 Stratigraphic Phase: XCIII Description: <b>White</b>	Context: 306sw Weight: 0.35g
Special find no: 2123 Stratigraphic Phase: XCIII Description: <b>Pale blue</b>	Context: 305sw Weight: 0.39g	Special find no: 2146 Stratigraphic Phase: XCIII Description: <b>Pale blue</b>	Context: 306se Weight: 0.33g
Special find no: 2170 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 324ne Weight: 0.75g	Special find no: 2176 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 324ne Weight: 0.09g
Special find no: 2192 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 316ne Weight: 0.02g	Special find no: 2370 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 325ne Weight: 0.15g
Special find no: 2372 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 325ne Weight: 0.62g	Special find no: 2374 Stratigraphic Phase: XCV Description: <b>Dark blue</b>	Context: 324ne Weight: 0.73g
Special find no: 2511 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 344nw Weight: 0.14g	Special find no: 2600 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 292ne Weight: 0.18g
Special find no: 2602 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 292ne Weight: 1.53g	Special find no: 2616 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 292ne Weight: 0.11g
Special find no: 2629 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 359nw Weight: 0.02g	Special find no: 2665 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 356nw Weight: 0.01g
Special find no: 2679 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 292ne Weight: 0.00g	Special find no: 2702 Stratigraphic Phase: XCV Description: <b>Pale blue</b>	Context: 294ne Weight: 0.03g



Special find no: 2762 Stratigraphic Phase: XCV Description: Pale blue	Context: 368nw Weight: 0.03g	Special find no: 2825 Stratigraphic Phase: XCIII Description: Ingot of opaque pale blue glass Diameter: 4.2cm Dimensions: 4.2cm diameter; 2.2cm thick [Plates 1.3 and 7.1; Fig. 7.4]	Context: 358se Weight: 58.41g
Special find no: 2928 Stratigraphic Phase: XCIII Description: Pale green	Context: 304ne Weight: 26.54g	Special find no: 2976 Stratigraphic Phase: XCII Description: Pale blue	Context: 367sw Weight: 0.02g
Special find no: 2985 Stratigraphic Phase: XCIII Description: Pale blue	Context: 304ne Weight: 0.31g	Special find no: 5057 Stratigraphic Phase: XCIII Description: Pale blue	Context: 369se Weight: 0.17g
Special find no: 5074 Stratigraphic Phase: XCII Description: Dark blue	Context: 365nw Weight: 3.43g	Special find no: 5773 Stratigraphic Phase: XCII Description: Dark blue	Context: 367sw Weight: 0.48g
Special find no: 5803 Stratigraphic Phase: XCV Description: Dark blue	Context: 324ne Weight: 1.31g	Special find no: 5861 Stratigraphic Phase: XCV Description: Dark blue	Context: 313sw Weight: 0.8g
Special find no: 5929 Stratigraphic Phase: XCIII Description: Pale red	Context: 304ne Weight: 0.1g	Special find no: 5930 Stratigraphic Phase: XCIII Description: Dark blue	Context: 304ne Weight: 0.08g
Special find no: 5932 Stratigraphic Phase: XCIII Description: Black	Context: 304ne Weight: 0.11g	Special find no: 6066 Stratigraphic Phase: XCII Description: Pale blue	Context: 367sw Weight: 0.15g
Special find no: 6092 Stratigraphic Phase: XCIII Description: Pale blue	Context: 305nw Weight: 0.09g	Special find no: 6288 Stratigraphic Phase: XCV Description: Pale green	Context: 393sw Weight: 2.13g
Special find no: 6730 Stratigraphic Phase: LXXXVII Description: Pale blue	Context: 441ne Weight: 0.62g	Special find no: 6967 Stratigraphic Phase: XCV Description: Dark blue	Context: 429sw Weight: 0.3g
Special find no: 8103 Stratigraphic Phase: LXXV Description: Red	Context: 492se Weight: 0.01g	Special find no: 15797 Stratigraphic Phase: XCV Description: Dark blue	Context: 600 Weight: 0.1g
Special find no: 15798 Stratigraphic Phase: XCV Description: Pale blue	Context: 600 Weight: 0.02g	Special find no: 15853 Stratigraphic Phase: XCV Description: Dark blue	Context: 600 Weight: 0.11g

## 7.6 Conclusion

As was found above in Chapter 3: Metal Objects, Chapter 5: Glazed Ceramics and Chapter 6: Unglazed Ceramics, the extent of continuity in Indian Ocean trade objects at Anuradhapura is becoming more apparent. Generally we can see a trade that first becomes archaeologically visible at ASW2 in the first century BC and continues until the city's fall in the eleventh century AD. The presence of locally produced ceramics inspired by Mediterranean ceramics appears to parallel the presence of imports of glass vessels from the eastern Mediterranean. Similarly, the presence of glass vessels and objects imported from Egypt, Syria and Persia mirrors almost exactly the presence of the early Islamic glazed wares. The presence of Mediterranean-inspired motifs on metalwork, as well as perhaps the presence of saws and mirrors, also parallels these general trends. Again it is interesting to note that the presence of such objects at Anuradhapura is not as ballast or as objects unloaded at a maritime entrepot; rather they represent objects brought miles into the interior of the island to the dynastic capital of the island-wide kingdom. Their presence also appears rather to run counter to Chaudhuri's belief that in the Indian subcontinent

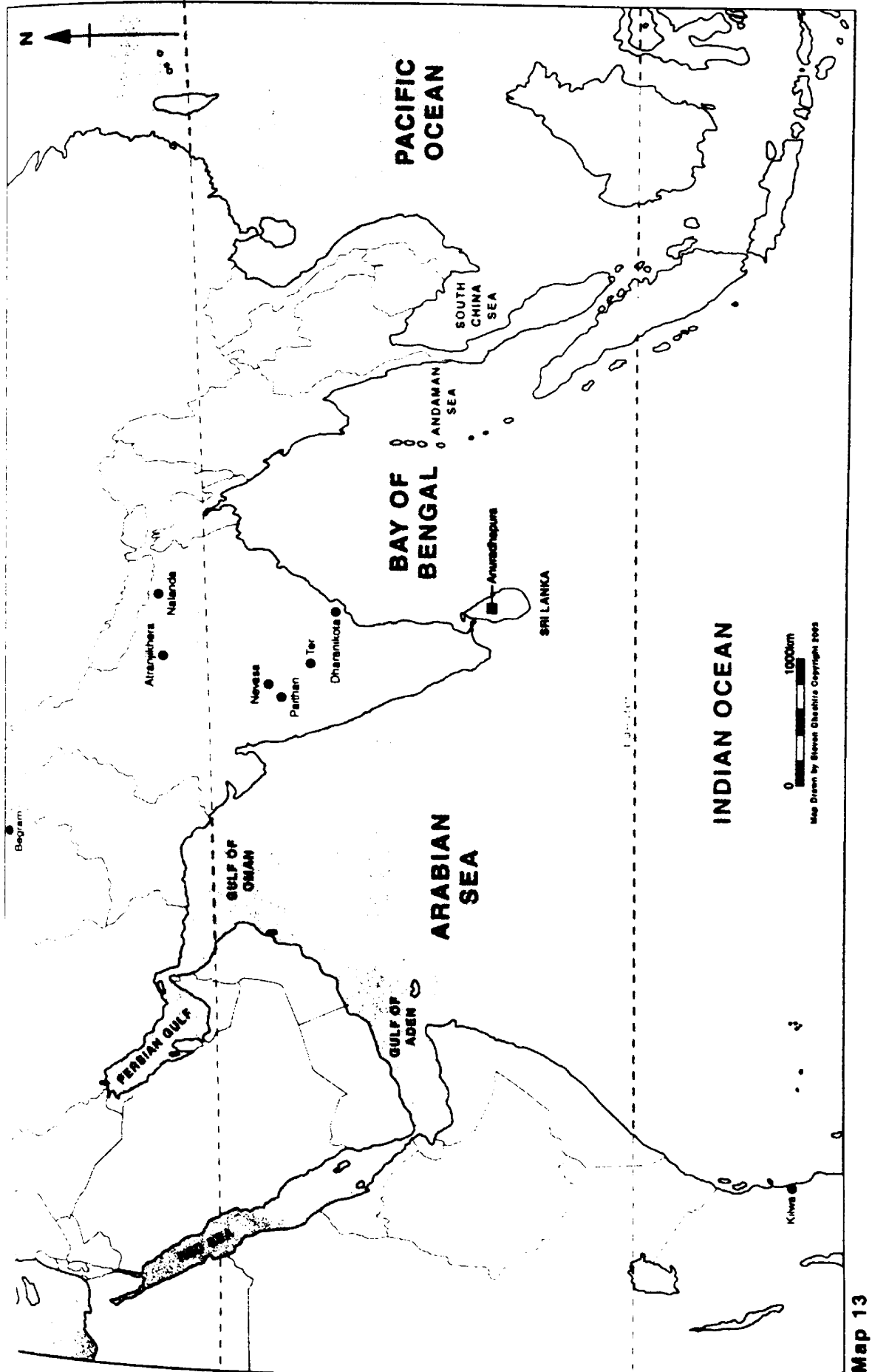
"ritualistic authority and laws of religious pollution ruled out the usage of fragile but high-valued glass and porcelain as objects for serving food and drink" (Chaudhuri 1990: 332).

While the glass vessels have been fully described above and are clearly imports from the Graeco-Roman and Islamic worlds, there are also a series of artefacts - bangles, rings and beads - that are clearly of South Asian manufacture. It seems to be generally agreed that the modern tradition of the manufacture of glass dates to the beginning of the first millennium BC (Glover and Henderson 1995: 143), however it was during the second half of the first millennium that glass objects became widespread within South Asia (Basa 1992: 99). The study of the manufacture of rings and bangles appears to have been neglected, as opposed to the numerous works on glass beads. Indeed, Francis has identified four diagnostic regional types of glass beads within India (Francis 1982). The first region is North India, with finds of square tubes of amber glass with six spots on either face and black beads with a white inlaid strip; the second is based at Arikamedu and consists of cutting drawn tubes and collared or grooved and collared beads; the

third is based in Maharashtra in western India and consists of drawn monochrome beads, melon and gold-foil beads; and the fourth group is found in North India and comprises opaque orange beads. It is worth noting that the distribution of these groups is not as clear as was first thought but overlaps substantially, as pointed out by Basa (1992). While the evidence that such beads were manufactured in South Asia may not be very clear from the various chemical analyses (Glover and Henderson 1995: 146–7), the presence at many sites of lumps of unworked glass, crucibles and wasters is unmistakable (*ibid.*: 98; Francis 1991: 32).

Indeed the glass beads catalogues from ASW2 appear to fit well into Francis's South Indian group, although the latter, unlike the former, does not appear to be tied into a periodized typology. Francis is of the opinion that beadworkers producing shapes belonging to this category were centred in Arikamedu from the third century BC until the late second century AD, after which some then moved to Sri Lanka and Southeast Asia. When their new centres were abandoned, "the beadmakers were forced to move" until they returned to South India (*ibid.*: 35). As the earliest glass beads from ASW2 are drawn monochrome beads of the South Indian tradition dating to c. 400 BC, we must assume that there were other bead-manufacturing centres in operation before Arikamedu. It seems unlikely that there was such a centre in the locality of ASW2 as we have found no evidence of wasters and associated raw materials until the first century BC. However, after that date, although we still find no evidence of wasters, the presence of sectioned beads, unperforated beads, the glass ingot and the sheer volume of unformed glass fragments suggest that the manufacture of glass objects did occur close to the trench location. This would certainly give a further Sri Lankan manufacturing centre for Francis's category of 'Indo-Pacific beads', Mantai having already been identified (*ibid.*: 34). However, such waste indicators of glass manufacture are somewhat misleading as they will only identify the largest manufacturing loci. It can be hypothesized that many small-scale operations will be archaeologically invisible. Such a case is illustrated by Buchanan's description of itinerant glass-workers in Madras Presidency who purchased raw glass of various colours from glass furnaces and then worked it into bangles on small ovens in the city bazaars (Buchanan 1870: III, 369–72).





Map 13

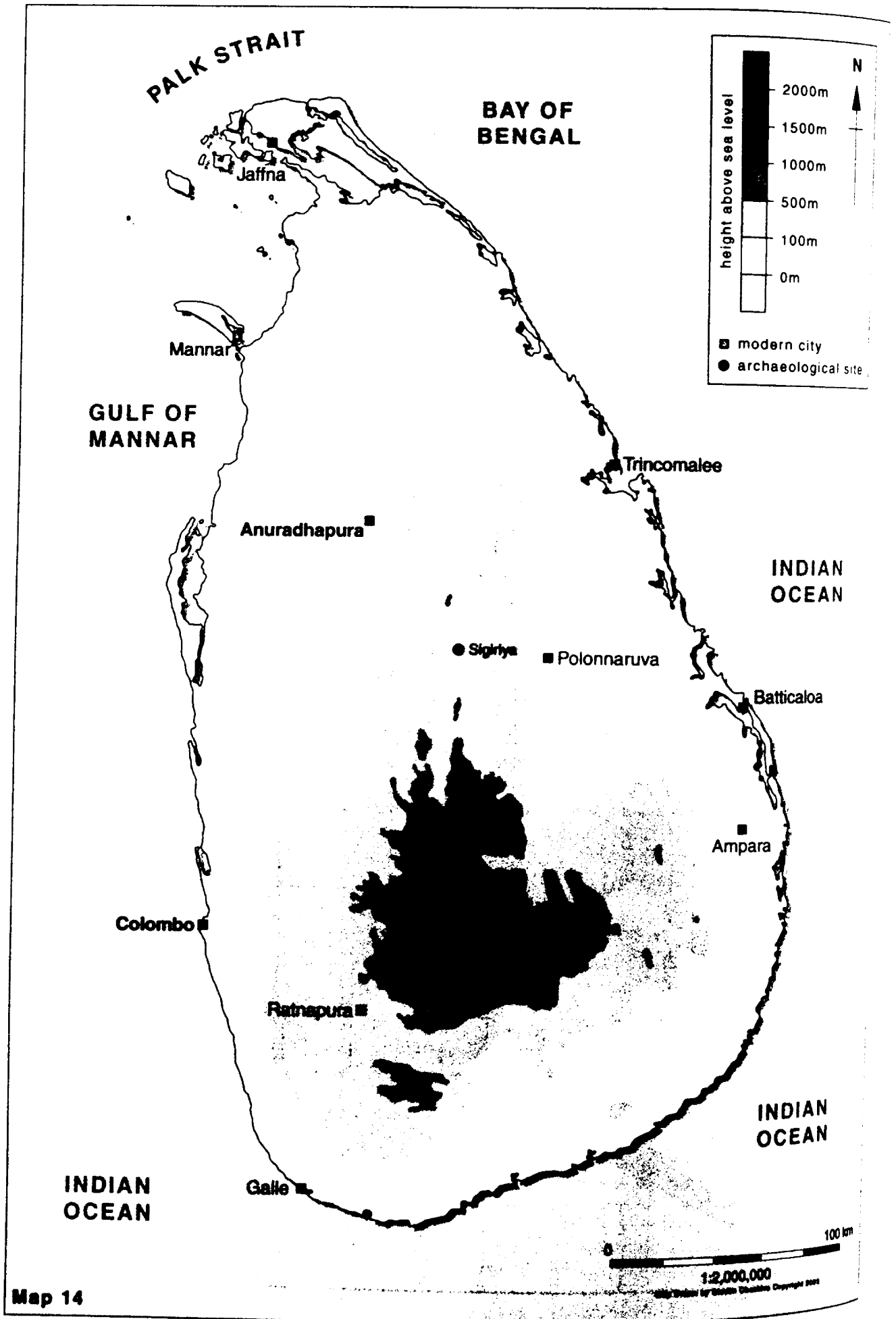


Table 7.1 Glass objects

Category	Period	A	B	C, D & E	F	G	H	I	J	K	Total
<b>Vessels</b>											
	number	5	95	291	32	20					443
	weight (g)	12.69	115.29	243.6	15.58	15.44					402.6
<b>Other objects</b>											
	number			4	2	1					7
	weight (g)			3.56	3.14	4					10.7
<b>Rings</b>											
	number		1	8	3	5		1			18
	weight (g)		0.13	6.33	1.39	4.38		0.36			12.59
<b>Bangles</b>											
	number	2	15	49	7						73
	weight (g)	10.5	19.45	51.71	19.42						20.84
<b>Beads</b>											
	number	6	171	511	653	742	94	78	22		2277
	weight (g)										512.63
<b>Beads (hoard)</b>											
	number				2120						2120
	weight (g)				220.83						220.83
<b>Unformed glass</b>											
	number		11	65	18	2					96
	weight (g)		7.99	107.11	99.08	0.63					214.87
<b>Total</b>											
	number	13	293	928	2835	770	94	79	22		5034
	weight (g)	23.19	142.86	412.37	360.86	24.45		0.36			1479.72

Table 7.2 Glass vessels

Category	Period	A	B	C,D & E	F	G	H	I	J	K	Total
<b>Rims</b>											
	number	1	3	14							20
	weight (g)	3.59	2.45	18.72							26.94
<b>Necks</b>											
	number		1	3							4
	weight (g)		1.69	5.56							7.25
<b>Bases</b>											
	number		2	1							3
	weight (g)		8.54	3.39							11.93
<b>Décorated body</b>											
	number		1		1	2					4
	weight (g)		5.63		0.3	2.16					8.09
<b>Undiagnostic sherds</b>											
	number	4	88	273	31	16					412
	weight (g)	9.1	96.98	215.93	15.28	11.1					348.39
<b>Total</b>											
	number	5	95	291	32	20					443
	weight (g)	12.69	116.29	243.6	15.58	15.44					402.6

Table 7.3 Eastern Mediterranean glass vessels

Category	Period	A	B	C,D & E	F	G	H	I	J	K	Total
<b>Bowls</b>											
	number					1					1
	weight (g)					1.23					1.23
<b>Décorated body</b>											
	number		1		1	2					4
	weight (g)		5.63		0.3	2.16					8.09
<b>Total</b>											
	number		1		1	3					5
	weight (g)		5.63		0.3	3.39					9.32

Table 7.4 Early Islamic glass vessels

Category	Period	A	B	C, D & E	F	G	H	I	J	K	Total
<b>Bowls</b>	number		1	2							3
	weight (g)		1.73	2.42							4.15
<b>Beakers</b>	number	1		4							5
	weight (g)	3.59		3.05							6.64
<b>Flasks</b>	number		1	4							5
	weight (g)		0.48	10.53							11.01
<b>Toilet flasks</b>	number		1	4							5
	weight (g)		0.24	2.72							2.96
<b>Phials</b>	number			3							3
	weight (g)			5.56							5.56
<b>Other vessels</b>	number		3	1							4
	weight (g)		10.23	3.39							13.62
<b>Total</b>	number	1	6	18							25
	weight (g)	3.59	12.68	27.67							43.94



Table 7.5 Other glass objects

Category	Period	A	B	C, D & E	F	G	H	I	J	K	Total
Hair curls	number			1	1						2
	weight (g)			0.89	1.98						2.87
Ear reels	number				1						1
	weight (g)				1.16						1.16
Kohl sticks	number			1							1
	weight (g)			0.89							0.89
Rings	number		1	8	3	5		1			18
	weight (g)		0.13	6.33	1.39	4.38		0.36			12.59
Plain bangles	number	1	12	37	4						54
	weight (g)	5.5	16.75	34.78	4.48						61.51
Spiral bangles	number			4	3						7
	weight (g)			5.73	16.36						22.09
Inlaid bangles	number	1	3	8							12
	weight (g)	5	2.7	11.2							18.9
Unidentified	number			2		1					3
	weight (g)			1.78		4					5.78
Total	number	2	16	61	12	6					78
	weight (g)	10.5	19.58	61.6	25.37	8.38		0.36			125.79

Table 7.7 Glass bead shapes (hoard)

Category	Period	F
<b>Disc</b>	<i>number</i>	1
<b>Spherical disc</b>	<i>number</i>	2071
<b>Collared sphere</b>	<i>number</i>	21
<b>Squashed collared sphere</b>	<i>number</i>	16
<b>Rectangular spacer</b>	<i>number</i>	2
<b>Notched &amp; collared sphere</b>	<i>number</i>	4
<b>Undiagnostic</b>	<i>number</i>	5
<b>Total</b>	<i>number</i>	<b>2120</b>

Table 7.6 Glass bead shapes

Category	Period	A	B	C,D & E	F	G	H	I	J	K	Total
Disc	number	2	20	32	22	628	92	73	15		884
Spherical disc	number	3	103	298	493	84	2	4	4		991
Tube	number		6	36	26	5			1		74
Hexagonal prism	number				1				1		2
Faceted	number							1			1
Sphere	number	1	23	64	59	3					150
Collared sphere	number		7	21	8	7					43
Squashed collared sphere	number			1	8	2					11
Collared cornerless cube	number					1					1
Elliptical	number			15	9	1					25
Squashed sphere	number			1		2					3
Barrel	number		1	1		1					3
Notched prism	number		1	3		1					5
Rectangular spacer	number			1		1					2
Notched & collared sphere	number		1		3						4
Collared triangular barrel	number				1						1

Category	Period	A	B	C,D & E	F	G	H	I	J	K	Total
Truncated bicone	number			1	1						2
Triangular spacer	number				1						1
Ringed sphere	number			2							2
Segmented sphere	number				1	1					2
Unperforated sphere	number		2	4	1	1					8
Rod	number								1		1
Undiagnostic	number		7	31	19	4					61
Total	number	6	171	511	653	742	94	78	22		2277

Table 7.8 Glass bead colours

Category	Period	A	B	C, D & E	F	G	H	I	J	K	Total
Red	number	3	16	37	72	607	92	69	18		914
Orange	number	2	33	113	109	24		5	2		288
Pale blue	number		14	71	62	13		2	1		163
Dark blue	number		10	41	22	17	1		1		92
Black	number		4	5	20	6		1			36
Brown	number		10	29	4	1		1			45
White	number		16	7	14	16	1				64
Dark green	number		6	26	22	4					58
Pale green	number		40	125	245	37					447
Yellow	number		13	41	80	13					147
Transparent	number			1	1	2					4
Green & white	number					1					1
Blue & white	number					1					1
Black & white	number				1						1
Red & white	number				1						1
Red & orange	number			2							2
Blue & yellow	number			1							1
Green & yellow	number	1	9	8							18

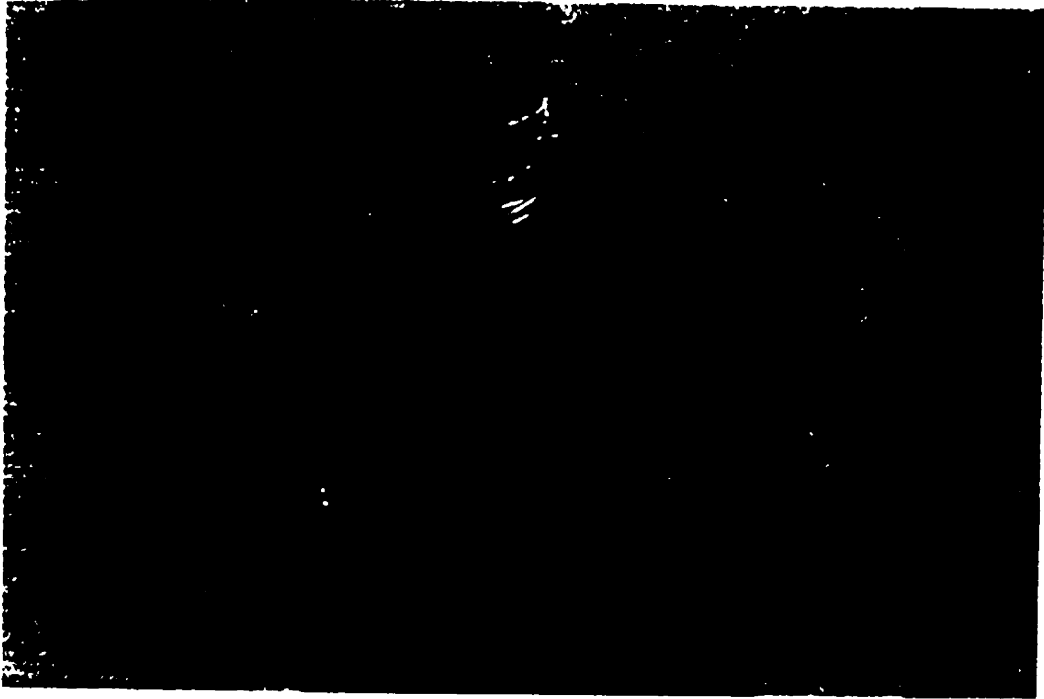
[illegible]

### Table 7.10 Unformed glass

Category	Period	A	B	C,D & E	F	G	H	I	J	K	Total
Unformed glass	number		11	65	18	2					96
	weight (g)		7.99	107.17	99.08	0.63					214.87
Total	number		11	65	18	2					96
	weight (g)		7.99	107.17	99.08	0.63					214.87

**Table 7.9 Glass bead colours (hoard)**

<b>Category</b>	<b>Period</b>	<b>F</b>
<b>Red</b>	<i>number</i>	102
<b>Orange</b>	<i>number</i>	72
<b>Pale blue</b>	<i>number</i>	301
<b>Dark blue</b>	<i>number</i>	142
<b>Black</b>	<i>number</i>	370
<b>Brown</b>	<i>number</i>	203
<b>White</b>	<i>number</i>	229
<b>Pale Green</b>	<i>number</i>	140
<b>Yellow</b>	<i>number</i>	559
<b>Green &amp; clear</b>	<i>number</i>	1
<b>Green &amp; yellow</b>	<i>number</i>	1
<b>Total</b>	<i>number</i>	<b>2120</b>



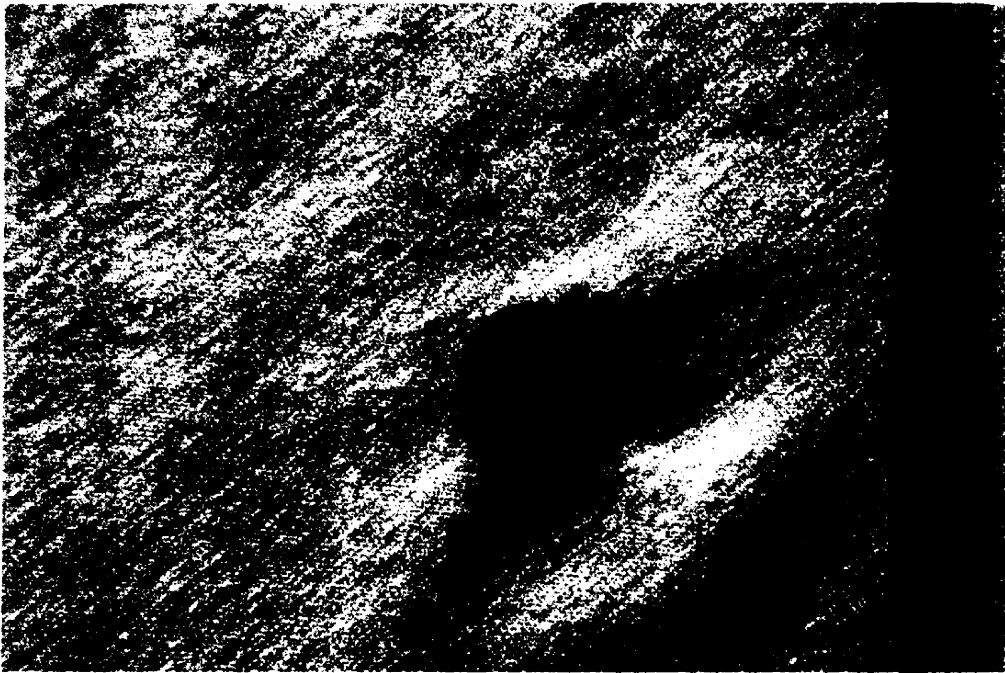
Glass ingot (sf 2825)



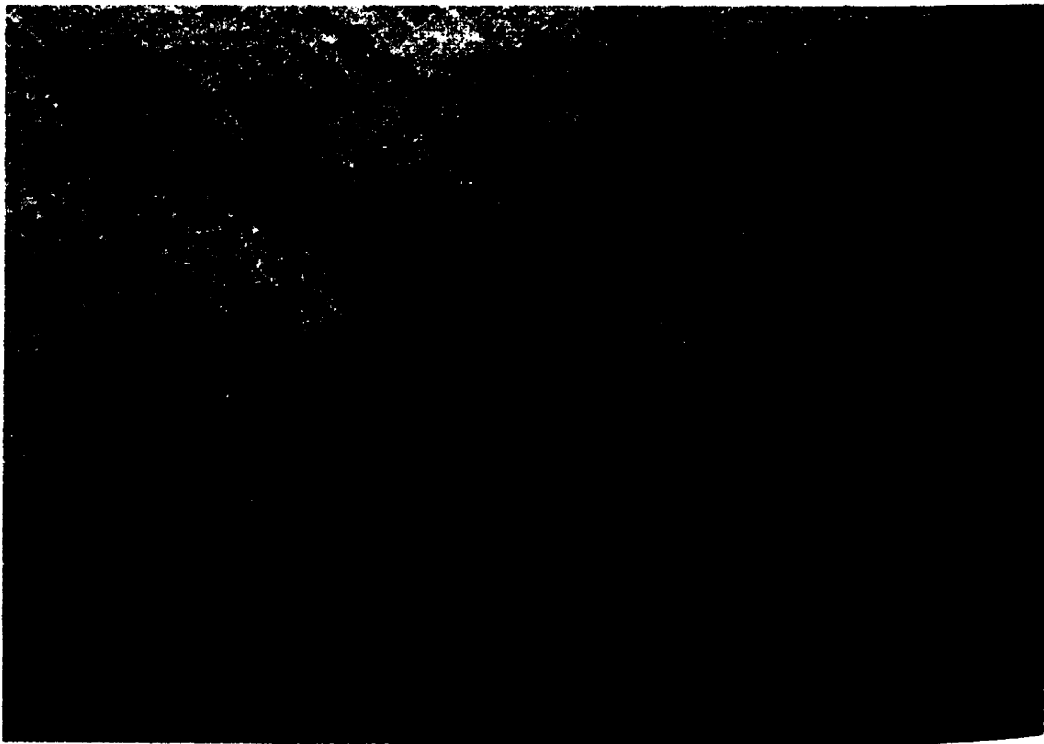
Glass ingot (sf 2825)

*Plate 7.1: Glass objects*





Glass hair curl (sf 633)



Spiral glass bangle (sf 5265)

*Plate 7.2: Glass objects*

# Glass Objects

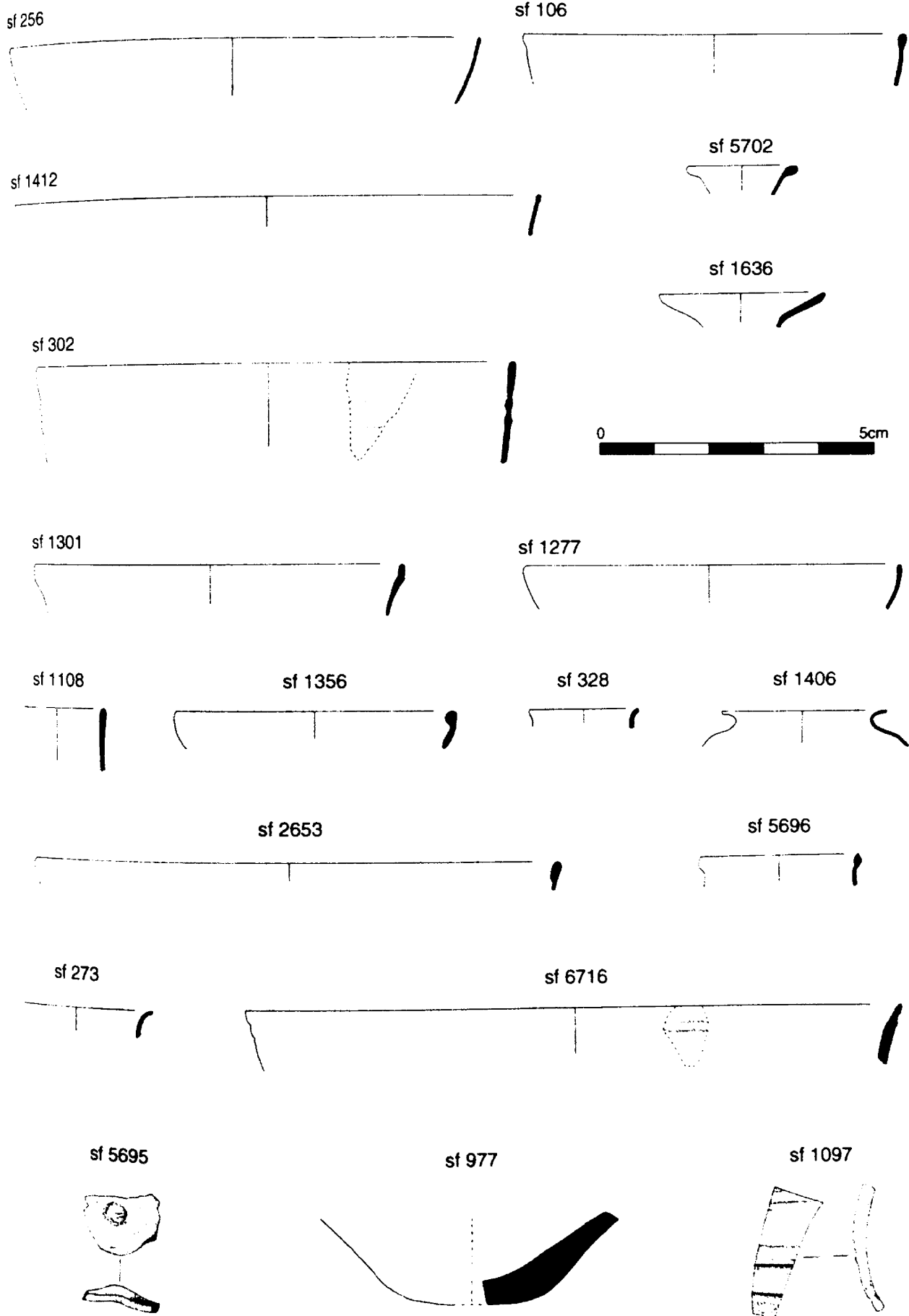


Figure 7.1 Glass Objects

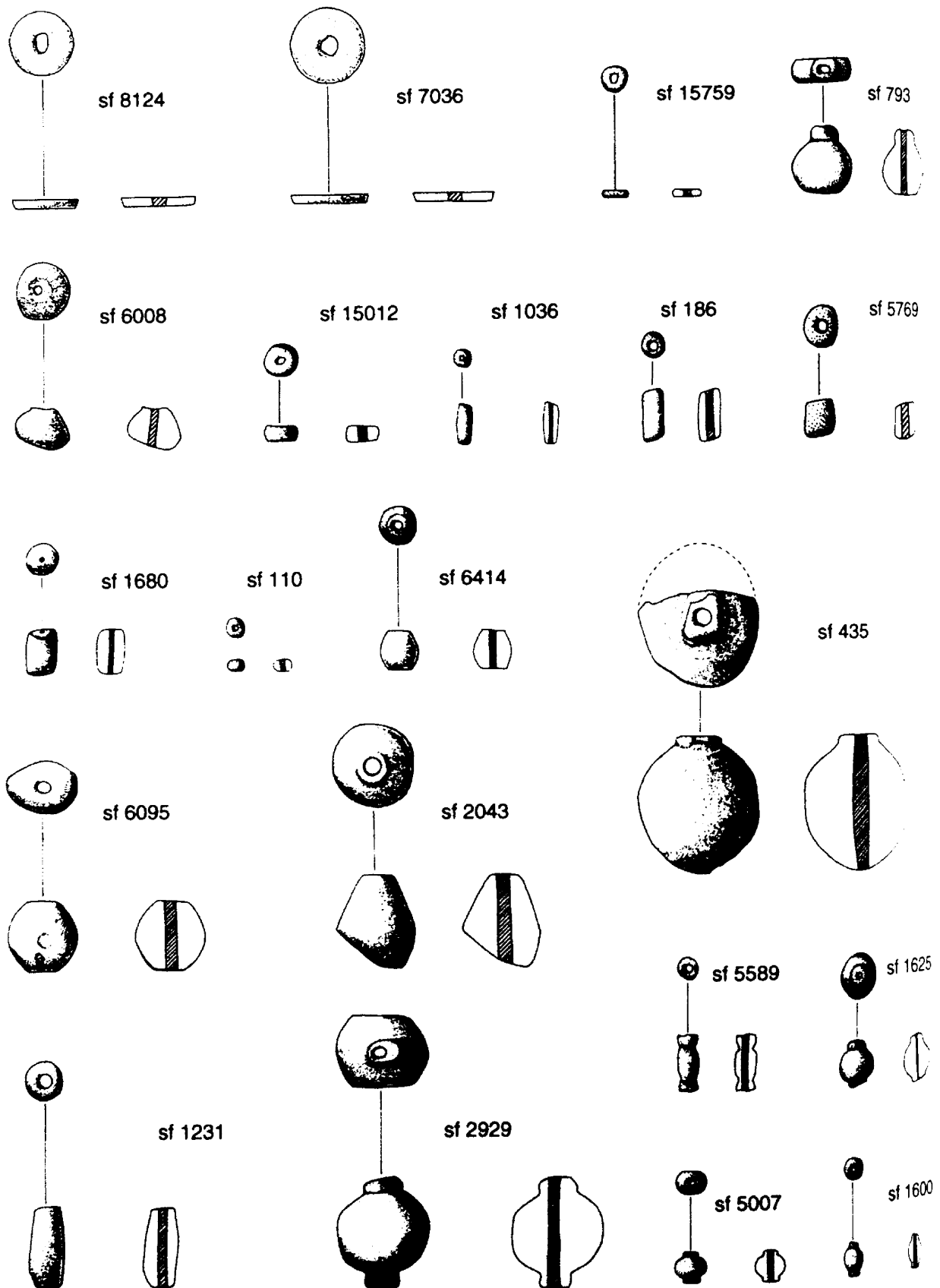


Figure 7.2 Glass Objects

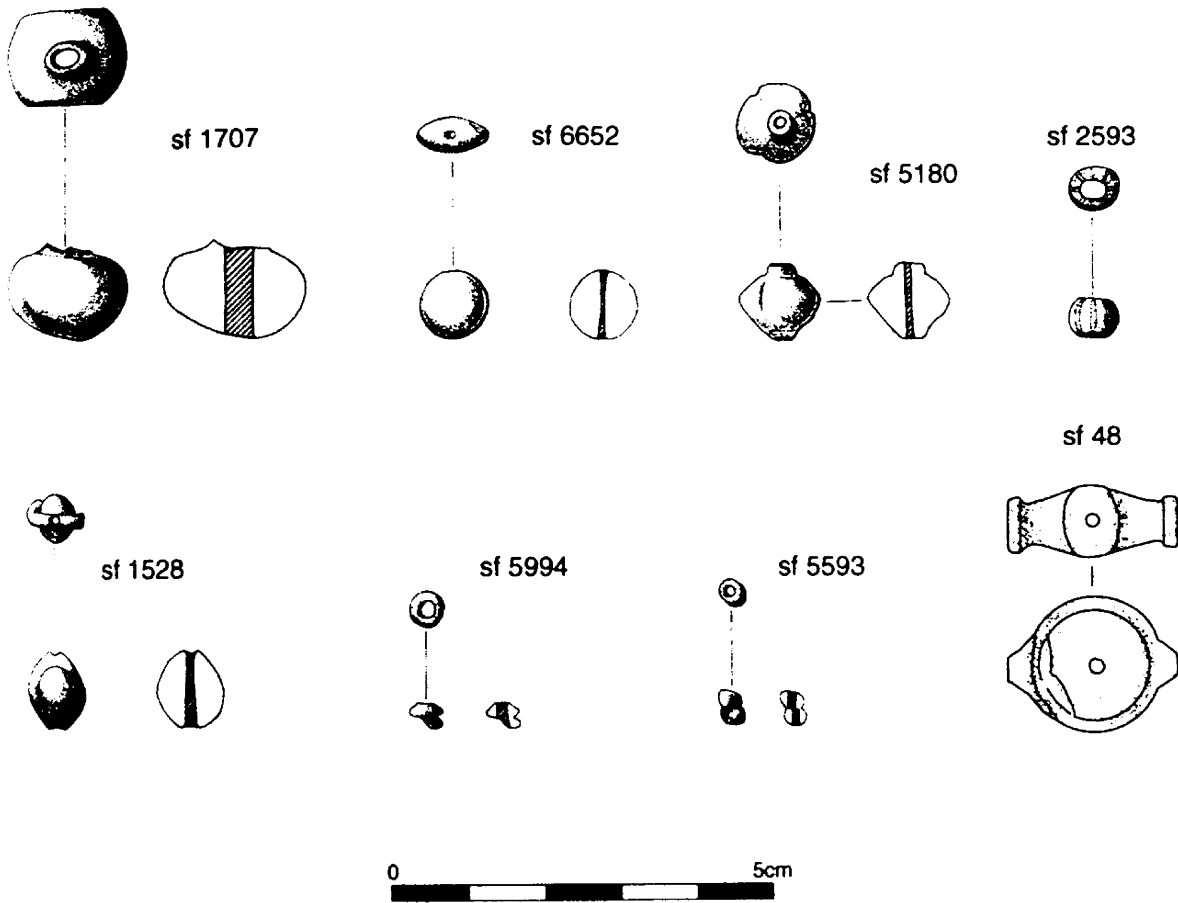
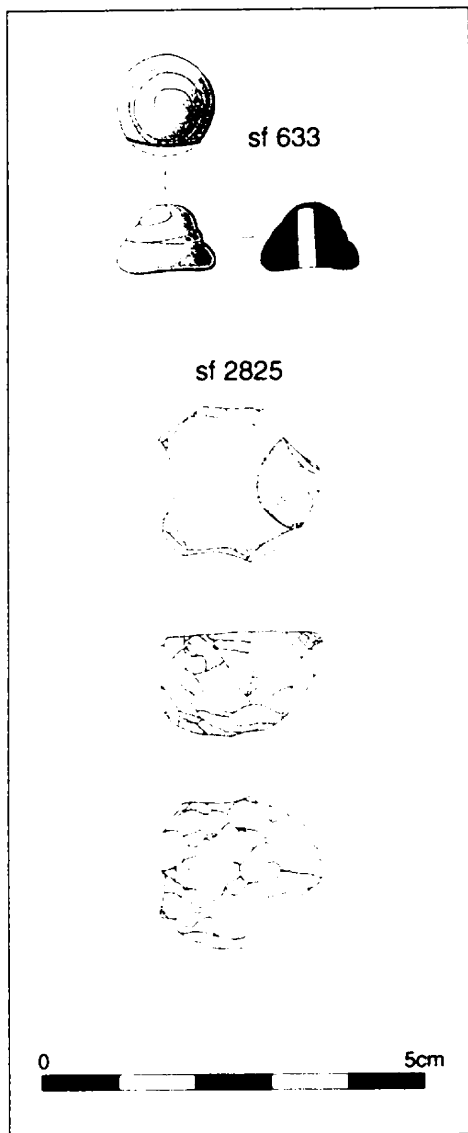
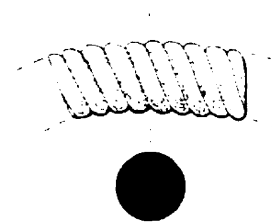


Figure 7.3 Glass Objects



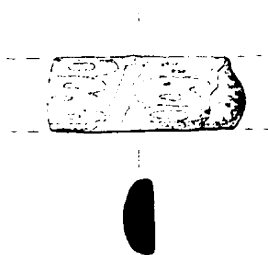
sf 1859  
bangle round profile



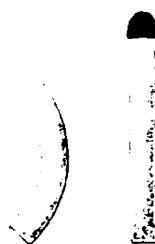
sf 1786  
bangle round profile



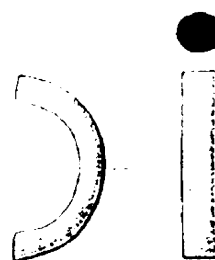
sf 1875  
bangle D profile



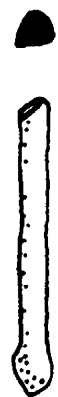
sf 1602  
bangle D profile



sf 6241  
bangle D profile



sf 6726  
ring round profile



sf 214  
kohl stick



Figure 7.4 Glass Objects

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## CHAPTER 8

# STONE OBJECTS

*Robin Coningham, Daniella Burroni, Randolph Donahue  
and Louise Ford*

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### 8.1 Introduction

This chapter describes the large assemblage of stone objects recovered from trench ASW2 at Anuradhapura. It identifies the raw material of the objects, describes their form and infers function. A total of 793 stone objects have been recovered from trench ASW2, weighing 12,280.53 grams (see Table 8.1). The objects range from period J to B and thus date from c. 510 cal. BC to AD 1100. A variety of forms and shapes have been identified, such as spherical discs and tube-shaped beads, although most are manufacturing debris. They are of numerous materials, including lapis lazuli, chert, carnelian, chalcedony, agate, jasper, sard, garnet, amethyst, quartz, quartzite, mica and amazonite and come from a variety of sources (see Maps 15 and 16), which Steve Laurie of the Mineralogical Department, Sidgwick Museum, Cambridge, assisted in identifying. The large quantity of quartz crystal, encompassing various kinds of modification and different degrees of completion, permits modelling of the stages of bead manufacture for that material. It is probably typical of many of the materials recovered here, but represented by fewer artefacts. Few scholars have attempted to identify manufacturing techniques and the degree of organization, although research in this area is developing. Kenoyer *et al.* (1994: 284) used ethnoarchaeological data of carnelian bead manufacture in Khambhat (Gujarat) to hypothesize the organization of production in ancient South Asia. These data enabled the identification of two types of production for the sites of Chanhu-daro and Mohenjo-daro. The former appears to be well controlled and centralized owing to the standardized bead forms, whereas the latter indicates a more entrepreneurial and short-term production, as evidenced by the quantity of different raw materials and the differing quality of materials (Kenoyer *et al.* 1994: 304). Vidale's (1987) paper on bead-making in the Moneer southeast area at Mohenjo-daro provides insight into the production techniques utilized. Deraniyagala (1972: 134–9) has compared bead forms from Anuradhapura (Gedige) with other South Asian sites in order to build up a relative chronology. The modelling of manufacturing stages follows the description of the artefacts, which is organized by raw material.

### 8.2 Lapis lazuli

This rock is mainly composed of the mineral lazurite, which provides its characteristic dark blue colour (Casanova 1992: 49). Other minerals include calcite and

pyrite. It occurs as a result of contact metamorphism of limestone and is found near Lake Baikal, Russia, and most famously at Badakhshan in northeast Afghanistan (Roberts *et al.* 1974: 349) and Baluchistan (Lahiri 1992: 22). The Mogok stone tract in Burma has also yielded lapis lazuli (Krishnan 1982: 159). Other sites in South Asia have also yielded quantities of lapis lazuli, such as Taxila in Pakistan and Nevasa in Maharashtra. Lapis lazuli beads have been found at Veerapuram and Raigir in Andhra Pradesh (Lahiri 1992: 274, 335, 355). It does not occur naturally in Sri Lanka or India and its presence in trench ASW2 at Anuradhapura indicates that it is an imported item and that there must have been long-distance trade as early as 360 cal. BC. Five beads have been discovered from periods I, G and F (c. 360 cal. BC–AD 600), which are sphere, lugged angular and triangular spacer shaped, along with one undiagnostic faceted object.

#### 8.2.1 Triangular spacer bead

Special find no: 5060                      Context: 306se  
Stratigraphic phase: XCIII              Weight: 0.12g  
Description: Triangular spacer  
Dimensions: 0.66cm x 0.28cm  
[Fig. 8.1]

#### 8.2.2 Faceted bead

Special find no: 2595                      Context: 73ne  
Stratigraphic phase: XCIII              Weight: 0.63g  
Description: Undiagnostic  
Dimensions: 0.85cm x 0.6cm  
[Fig. 8.1]

#### 8.2.3 Lugged angular bead

Special find no: 6689                      Context: 427se  
Stratigraphic phase: XC1                  Weight: 0.53g  
Description: Lugged angular  
Dimensions: 0.78cm x 0.6cm  
[Plate 1.4; Fig. 8.1]

#### 8.2.4 Sphere beads

Special find no: 16821                      Context: 1119sw  
Stratigraphic phase: XXIX                  Weight: 0.39g  
Description: Sphere bead  
Dimensions: 0.58cm x 0.64cm

Special find no: 10629                      Context: 1206ne  
Stratigraphic phase: XXXV1                  Weight: 0.12g  
Description: Sphere bead  
Dimensions: 0.38cm x 0.44cm

### 8.3 Greenstone

Greenstone is a general term for a slightly altered basic igneous rock, such as epidiorite (Whitten and Brooks 1972: 217). Basic rocks, such as amphibolites, are present in Sri Lanka and it is likely that this was a locally exploited source (Cooray 1984: 101). An epidiorite wedge has been found at Hallur in northern Karnataka (Lahiri 1992: 343). Thirty-seven samples of greenstone

have been identified from trench ASW2, five of which are beads, thirty-one pieces of raw material and one undiagnostic. They range in date from c. 200 cal. BC to AD 1100, with the majority occurring in period F, which dates from c. AD 200 to 1100, indicating increased bead production and specialization.

#### 8.3.1 Spherical disc

Special find no: 6002                      Context: 304ne  
Stratigraphic phase: XCIII              Weight: 0.17g  
Description: **Spherical disc bead**  
Dimensions: 0.46cm x 0.61cm

#### 8.3.2 Collared sphere

Special find no: 5099                      Context: 304ne  
Stratigraphic phase: XCIII              Weight: 1.26g  
Description: **Collared sphere bead**  
Dimensions: 1cm x 1.05cm

Special find no: 4194                      Context: 370sw  
Stratigraphic phase: XCIII              Weight: 1.73g  
Description: **Collared sphere bead**  
Dimensions: 1.28cm x 1.5cm

Special find no: 4195                      Context: 370sw  
Stratigraphic phase: XCIII              Weight: 1.51g  
Description: **Collared sphere bead**  
Dimensions: 1.24cm x 1.42cm

#### 8.3.3 Squashed collar

Special find no: 6076                      Context: 345sw  
Stratigraphic phase: XCIII              Weight: 5.45g  
Description: **Squashed collar bead**  
Dimensions: 2.21cm x 1.55cm  
[Fig. 8.1]

#### 8.3.7 Raw material

Special find no: 936                      Context: 27  
Stratigraphic phase: C                      Weight: 15g  
Description: **1 piece of greenstone**  
Dimensions: 3.3cm x 2.8cm

Special find no: 937                      Context: 9nw  
Stratigraphic phase: CVI                      Weight: 5.5g  
Description: **1 piece of greenstone**  
Dimensions: 6.5cm x 3.1cm

Special find no: 1304                      Context: 9nw  
Stratigraphic phase: CVI                      Weight: 13.2g  
Description: **2 pieces of greenstone**

Special find no: 939                      Context: 15ne  
Stratigraphic phase: CXI                      Weight: 15g  
Description: **1 piece of greenstone**  
Dimensions: 3.5cm x 3.4cm

Special find no: 1286                      Context: 25ne  
Stratigraphic phase: XCVII                      Weight: 40.48g  
Description: **3 pieces of greenstone**

Special find no: 941                      Context: 78se  
Stratigraphic phase: XCV                      Weight: 60g  
Description: **1 piece of greenstone**  
Dimensions: 5.5cm x 4.1cm

#### 8.3.4 Conch-shaped bead

Special find no: 2947                      Context: 304ne  
Stratigraphic phase: XCIII                      Weight: 27.5g  
Description: **Conch-shaped bead**  
Dimensions: 8.4cm x 2.15cm  
[Plates 1.4 and 8.1; Fig. 8.1]

#### 8.3.5 Pendant

Special find no: 199                      Context: 65sw  
Stratigraphic phase: CX                      Weight: 19.5g  
Description: **Pendant**  
Dimensions: 2.32cm x 1.41cm  
[Plate 8.2; Fig. 8.1]

#### 8.3.6 Undiagnostic

Special find no: 5100                      Context: 304ne  
Stratigraphic phase: XCIII                      Weight: 0.79g  
Description: **Undiagnostic**  
Dimensions: 1.1cm x 1cm

Special find no: 1374                      Context: 41sw  
Stratigraphic phase: C                      Weight: 1.32g  
Description: **1 piece of greenstone**

Special find no: 940                      Context: 9se  
Stratigraphic phase: CVI                      Weight: 3.4g  
Description: **1 piece of greenstone**  
Dimensions: 1.6cm x 2.2cm

Special find no: 2340                      Context: 26sw  
Stratigraphic phase: CIV                      Weight: 34.43g  
Description: **1 piece of greenstone**

Special find no: 1302                      Context: 47nw  
Stratigraphic phase: XCVI                      Weight: 242.9g  
Description: **1 piece of greenstone**

Special find no: 2338                      Context: 300se  
Stratigraphic phase: XCV                      Weight: 150.58g  
Description: **1 piece of greenstone**

Special find no: 1549                      Context: 261nw  
Stratigraphic phase: XCV                      Weight: 296.61g  
Description: **3 pieces of greenstone**

Special find no: **942** Context: **107nw**  
Stratigraphic phase: **XCV** Weight: **30g**  
Description: **1 piece of greenstone**  
Dimensions: **4.1cm x 2.9cm**

Special find no: **942** Context: **107nw**  
Stratigraphic phase: **XCV** Weight: **25g**  
Description: **1 piece of greenstone**

Special find no: **2745** Context: **368nw**  
Stratigraphic phase: **XCV** Weight: **525g**  
Description: **1 piece of greenstone**

Special find no: **2697** Context: **356ne**  
Stratigraphic phase: **XCV** Weight: **946.06g**  
Description: **1 piece of greenstone**

Special find no: **6040** Context: **364ne**  
Stratigraphic phase: **XCII** Weight: **802.86g**  
Description: **1 piece of greenstone**

Special find no: **2868** Context: **364ne**  
Stratigraphic phase: **XCII** Weight: **10g**  
Description: **1 piece of greenstone**

Special find no: **2076** Context: **306se**  
Stratigraphic phase: **XCIII** Weight: **15.8g**  
Description: **1 piece of greenstone**

Special find no: **6307** Context: **385se**  
Stratigraphic phase: **XCI** Weight: **140g**  
Description: **1 piece of greenstone**

Special find no: **8051** Context: **495sw**  
Stratigraphic phase: **LXXX** Weight: **2410g**  
Description: **3 pieces of greenstone**

Special find no: **6824** Context: **470**  
Stratigraphic phase: **LXXXI** Weight: **425g**  
Description: **1 piece of greenstone**

Special find no: **938** Context: **107nw**  
Stratigraphic phase: **XCV** Weight: **4.2g**  
Description: **1 piece of greenstone**  
Dimensions: **2.4cm x 1.2cm**

Special find no: **794** Context: **204ne**  
Stratigraphic phase: **XCV** Weight: **1260g**  
Description: **1 piece of greenstone**

Special find no: **2336** Context: **289ne**  
Stratigraphic phase: **XCV** Weight: **38.05g**  
Description: **1 piece of greenstone**

Special find no: **2419** Context: **158nw**  
Stratigraphic phase: **XCV** Weight: **94.45g**  
Description: **1 piece of greenstone**

Special find no: **6004** Context: **364ne**  
Stratigraphic phase: **XCII** Weight: **249.91g**  
Description: **1 piece of greenstone**

Special find no: **2567** Context: **73sw**  
Stratigraphic phase: **XCIII** Weight: **634.67g**  
Description: **1 piece of greenstone**

Special find no: **6307** Context: **385se**  
Stratigraphic phase: **XCI** Weight: **144.35g**  
Description: **1 piece of greenstone**  
Dimensions: **2cm x 4cm**

Special find no: **8496** Context: **490sw**  
Stratigraphic phase: **LXXV** Weight: **3.33g**  
Description: **1 piece of greenstone**

Special find no: **8052** Context: **487ne**  
Stratigraphic phase: **LXXXI** Weight: **125g**  
Description: **1 piece of greenstone**

## 8.4 Chert, carnelian, agate, chalcedony, jasper and sard

Carnelian, agate, jasper, sard and chert are varieties of chalcedony, which is a very fine-grained quartz that does not form crystals (cryptocrystalline quartz) (Roberts *et al.* 1974: 504). They differ from chalcedony in their colour, which includes white, grey, blue, brown and black. Agate also displays a multitude of colours as it is a form of banded chalcedony (Roberts *et al.* 1974). Carnelian has a blood-red to reddish-brown colour and is translucent. Jasper is a red chert-like form of chalcedony and is opaque (Whitten and Brooks 1972: 251). Sard is a reddish or brown colour. Chalcedony commonly occurs in sediments, low-temperature hydrothermal veins or as an amygdale filling (Roberts *et al.* 1974: 413). They therefore have a similar provenance. Cryptocrystalline quartz can be found in north and south Waziristan and the Gomal plain (Upper Indus plain); Rajasthan; the Vindhya plateau, including the Rajmahal traps in the lower Gangetic plains (Lahiri 1992: 37, 281, 49, 222); and Gujarat (Coningham 1995b: 64). Agate and chalcedony have also been found in trap dykes in the old Madras and Salem districts, both in Tamil Nadu, southern India. The Saran district in the middle Gangetic plains has also yielded agate and chalcedony. Agate and jasper have been identified at Biana near Agra in

northern India. Jasper has been yielded from Patna and Bhagalpur districts in the middle Gangetic plains (Lahiri 1992). The Deccan traps of western India also produce chalcedony and its different varieties (Krishnan 1982: 419). Jasper is found near Pomparippu and chalcedony in the Kal Aru basin of northern Sri Lanka, however these are rare deposits (Cooray 1984: 167). In terms of the presence of these minerals at other archaeological sites, Taxila in Pakistan has yielded these minerals, such as a carnelian ring-stone, an agate bowl, a chalcedony burnisher and beads, and jasper beads (Lahiri 1992: 274). Carnelian, agate and chalcedony beads were all discovered at Ahichchhatra and Hastinapur in the upper Gangetic plains. Agate, jasper and chalcedony weights were found at Ayodhya, while agate and carnelian beads were present at Atranjikhara. Microliths of agate, chalcedony and carnelian have been found at Maski, while Brahmagiri has quantities of carnelian blades and jasper microliths. Carnelian beads are common in central India at the sites of Garh-Kalika, Tripuri, Maheswar, Navdatoli and Nagda. In Gujarat, carnelian and agate are found at Somnath, Nagara, Nagal and Dhatva (Lahiri 1992).



### 8.4.1 Chert

Thirteen pieces of chert have been recovered from trench ASW2: ten pieces of raw material, two pieces of bead debitage and one collared sphere bead. They range from

periods B to G with the majority occurring in period D, thus within a time scale from c. 200 cal. BC to AD 1100.

Special find no: 1290  
Stratigraphic phase: C  
Description: 1 piece of chert

Context: 41se  
Weight: 0.86g

Special find no: 707  
Stratigraphic phase: XCV  
Description: 1 piece of chert  
Dimensions: 1.2cm x 1cm

Context: 182se  
Weight: 4.3g

Special find no: 323  
Stratigraphic phase: XCV  
Description: 1 piece of chert  
Dimensions: 3cm x 1.5cm

Context: 111sw  
Weight: 10g

Special find no: 1795  
Stratigraphic phase: XCV  
Description: 1 piece of chert

Context: 324ne  
Weight: 0.26g

Special find no: 1568  
Stratigraphic phase: XCV  
Description: 1 piece of chert

Context: 262se  
Weight: 4.53g

Special find no: 6235  
Stratigraphic phase: XCV  
Description: 1 piece of chert

Context: 313sw  
Weight: 1.63g

Special find no: 2209  
Stratigraphic phase: XCV  
Description: 1 piece of chert

Context: 332se  
Weight: 0.87g

Special find no: 2528  
Stratigraphic phase: XCV  
Description: 1 piece of chert

Context: 334ne  
Weight: 0.6g

Special find no: 2703  
Stratigraphic phase: XCIII  
Description: chips of chert

Context: 363ne  
Weight: 1.8g

Special find no: 298  
Stratigraphic phase: XCIII  
Description: 1 piece of chert  
Dimensions: 2cm x 1.4cm

Context: 200sw  
Weight: 5g

#### 8.4.1.1 Bead debitage

Special find no: 5992  
Stratigraphic phase: XCV  
Description: Bead debitage  
Dimensions: 0.41cm x 0.54cm

Context: 324ne  
Weight: 0.17g

Special find no: 8046  
Stratigraphic phase: LXXXI  
Description: Bead debitage

Context: 467nw  
Weight: 0.84g

#### 8.4.1.2 Collared sphere bead

Special find no: 2576  
Stratigraphic phase: XCIII  
Description: Collared sphere bead  
Dimensions: 1.84cm length

Context: 345sw  
Weight: 4.25g

### 8.4.2 Carnelian

A total of 102 pieces of carnelian have been discovered, most of which are beads or bead-related products, along with 13 rings. They date from c. 510 cal. BC to AD 1100, with the majority appearing in period G. Bead debitage is

the predominant form found, suggesting manufacture of carnelian beads at Anuradhapura, especially during period G (c. 200 cal. BC–AD 130 cal.).

#### 8.4.2.1 Bead blanks

Special find no: 284  
Stratigraphic phase: XCV  
Description: Bead blank  
Dimensions: 2.7cm x 1.2cm  
[Fig. 8.3]

Context: 56sw  
Weight: 5.2g

Special find no: 1050  
Stratigraphic phase: C  
Description: Bead blank  
Dimensions: 2.3cm x 0.76cm  
[Plate 8.2]

Context: 41sw  
Weight: 0.93g

Special find no: 1051  
Stratigraphic phase: C  
Description: Bead blank  
Dimensions: 1.37cm x 0.83cm

Context: 41sw  
Weight: 0.4g

Special find no: 1254  
Stratigraphic phase: XCV  
Description: Bead blank  
Dimensions: 1.5cm x 0.4cm

Context: 88ne  
Weight: 0.58g

Special find no: 1659  
Stratigraphic phase: XCV  
Description: Bead blank  
Dimensions: 1.2cm x 0.8cm

Context: 298ne  
Weight: 1.45g

Special find no: 1572  
Stratigraphic phase: XCV  
Description: Bead blank  
Dimensions: 2cm x 1.2cm

Context: 186nw  
Weight: 4.1g

Special find no: 5808  
Stratigraphic phase: XCV  
Description: Bead blank  
Dimensions: 1.14cm x 0.86cm

Context: 204ne  
Weight: 1.9g

Special find no: 2784 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.83cm length	Context: 368ne Weight: 3.13g	Special find no: 8798 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 1.77cm x 1.36cm	Context: 73sw Weight: 3.82g
Special find no: 2875 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.8cm x 1.15cm	Context: 364ne Weight: 5.36g	Special find no: 6226 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.32cm x 0.7cm	Context: 355ne Weight: 1.43g
Special find no: 2075 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 2.63cm x 0.85cm	Context: 306se Weight: 5.29g	Special find no: 6137 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.6cm x 0.43cm	Context: 379sw Weight: 0.93g
Special find no: 5860 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 2.36cm x 1.07cm	Context: 399ne Weight: 9.17g	Special find no: 6691 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 1.27cm x 1.08cm	Context: 416ne Weight: 2.15g
Special find no: 5800 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 1.2cm x 0.92cm	Context: 403nw Weight: 2.23g	Special find no: 5805 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 1.39cm x 0.9cm	Context: 403nw Weight: 1.32g
Special find no: 6455 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 1.34cm x 0.76cm	Context: 416ne Weight: 1.92g	Special find no: 6440 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 2.42cm x 1.34cm	Context: 416ne Weight: 5.45g
Special find no: 5998 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 1.02cm x 1.13cm	Context: 395sw Weight: 1.83g	Special find no: 6441 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 4.32cm x 1.51cm	Context: 416ne Weight: 14.6g
Special find no: 16038 Stratigraphic phase: LXXII Description: <b>Bead blank</b> Dimensions: 1.13cm x 1cm	Context: 715se Weight: 2.09g	Special find no: 15166 Stratigraphic phase: LXX Description: <b>Bead blank</b> Dimensions: 2.47cm x 1.3cm	Context: 616se Weight: 0.41g
Special find no: 15424 Stratigraphic phase: LXXII Description: <b>Bead blank</b> Dimensions: 0.95cm x 1.44cm	Context: 602ne Weight: 2.01g	Special find no: 10162 Stratigraphic phase: LXXIII Description: <b>Bead blank</b> Dimensions: 1.24cm x 1.01cm	Context: 635nw Weight: 1.47g
Special find no: 7041 Stratigraphic phase: LXXV Description: <b>Bead blank</b> Dimensions: 0.81cm x 1.35cm	Context: 494ne Weight: 1.69g	Special find no: 5848 Stratigraphic phase: LXXXVI Description: <b>Bead blank</b> Dimensions: 2.06cm x 0.78cm	Context: 390sw Weight: 1.88g
Special find no: 6626 Stratigraphic phase: LXXXVIII Description: <b>Bead blank</b> Dimensions: 2.3cm x 1.01cm	Context: 430se Weight: 4.01g		

#### 3.4.2.2 Bead debitage

Special find no: 1232 Stratigraphic phase: XCVII Description: <b>Bead debitage</b> Dimensions: 0.8cm x 0.3cm	Context: 25nw Weight: 0.13g	Special find no: 15465 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.61cm x 0.93cm	Context: 600 Weight: 0.95g
Special find no: 1398 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.1cm x 0.4cm	Context: 123se Weight: 0.61g	Special find no: 1542 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.7cm x 1.6cm	Context: 259sw Weight: 0.78g
Special find no: 1679 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1cm x 0.53cm	Context: 263nw Weight: 0.13g	Special find no: 1646 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.95cm x 0.52cm	Context: 272se Weight: 1.64g
Special find no: 5852 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.99cm x 0.66cm	Context: 283ne Weight: 0.7g	Special find no: 5819 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.95cm x 0.67cm	Context: 313sw Weight: 0.53g

Special find no: 1819 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.9cm x 0.45cm	Context: 316ne Weight: 0.95g	Special find no: 6130 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.93cm x 0.13cm	Context: 326nw Weight: 0.23g
Special find no: 5779 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 2.09cm x 0.57cm	Context: 334ne Weight: 1.42g	Special find no: 5710 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.96cm x 0.3cm	Context: 356nw Weight: 0.31g
Special find no: 2072 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.4cm x 0.2cm	Context: 600 Weight: 0.37g	Special find no: 15464 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.98cm x 1.07cm	Context: 600 Weight: 2.87g
Special find no: 5840 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 2.79cm x 0.76cm	Context: 359nw Weight: 4.12g	Special find no: 5657 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 0.73cm x 0.52cm	Context: 365nw Weight: 0.33g
Special find no: 2923 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1.3cm x 0.45cm	Context: 367sw Weight: 0.88g	Special find no: 5760 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 0.93cm x 0.47cm	Context: 367sw Weight: 0.28g
Special find no: 1944 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1.18cm x 0.25cm	Context: 73se Weight: 0.45g	Special find no: 6212 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 1.9cm x 0.5cm	Context: 355ne Weight: 1.04g
Special find no: 5903 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 2.03cm x 1.65cm	Context: 304ne Weight: 1.97g	Special find no: 2102 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.6cm x 0.45cm	Context: 306se Weight: 0.21g
Special find no: 6068 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.61cm x 0.23cm	Context: 345sw Weight: 0.05g	Special find no: 5870 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.75cm x 0.36cm	Context: 413se Weight: 0.73g
Special find no: 6293 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.35cm x 0.6cm	Context: 386nw Weight: 1.31g	Special find no: 6324 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 2.25cm x 0.4cm	Context: 386nw Weight: 1.25g
Special find no: 6531 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 2.44cm x 0.49cm	Context: 422sw Weight: 2.35g	Special find no: 6584 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.48cm x 0.17cm	Context: 424nw Weight: 0.32g
Special find no: 6692 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.25cm x 0.14cm	Context: 416ne Weight: 0.14g	Special find no: 15378 Stratigraphic phase: LXXII Description: <b>Bead debitage</b> Dimensions: 1.66cm x 0.71cm	Context: 601se Weight: 0.32g
Special find no: 8104 Stratigraphic phase: LXXV Description: <b>Bead debitage</b> Dimensions: 1.19cm x 0.35cm	Context: 492se Weight: 0.39g	Special find no: 7175 Stratigraphic phase: LXXV Description: <b>Bead debitage</b> Dimensions: 2.58cm x 0.82cm	Context: 492se Weight: 3.11g
Special find no: 8053 Stratigraphic phase: LXXV Description: <b>Bead debitage</b> Dimensions: 1.9cm x 1.26cm	Context: 493se Weight: 4.08g	Special find no: 7186 Stratigraphic phase: LXXV Description: <b>Bead debitage</b> Dimensions: 1.2cm x 0.46cm	Context: 494ne Weight: 0.55g
Special find no: 6957 Stratigraphic phase: LXXXI Description: <b>Bead debitage</b> Dimensions: 1.43cm x 0.27cm	Context: 487ne Weight: 0.28g	Special find no: 10161 Stratigraphic phase: LXXXIII Description: <b>Bead debitage</b> Dimensions: 2.11cm x 0.98cm	Context: 605nw Weight: 3.55g
Special find no: 5818 Stratigraphic phase: LXXXVI Description: <b>Bead debitage</b> Dimensions: 1.49cm x 0.32cm	Context: 390ne Weight: 0.75g	Special find no: 15431 Stratigraphic phase: LXVIII Description: <b>Bead debitage</b> Dimensions: 1.6cm x 1.09cm	Context: 615sw Weight: 0.4g
Special find no: 6514 Stratigraphic phase: LXXXVIII Description: <b>Bead debitage</b> Dimensions: 3.07cm x 0.66cm	Context: 419sw Weight: 3.36g	Special find no: 8136 Stratigraphic phase: LXXXVIII Description: <b>Bead debitage</b> Dimensions: 1.29cm x 0.31cm	Context: 426ne Weight: 0.58g

Special find no: **16289**  
Stratigraphic phase: **LIII**  
Description: **Bead debitage**  
Dimensions: **0.3cm x 1.26cm**

Context: **729sw**  
Weight: **0.96g**

Special find no: **17283**  
Stratigraphic phase: **XXIII**  
Description: **Bead debitage**  
Dimensions: **0.1cm x 0.83cm**

Context: **1125se**  
Weight: **0.06g**

### 8.4.2.3 Rings

Special find no: **1594**  
Stratigraphic phase: **XCV**  
Description: **Ring**  
Dimensions: **0.35cm length**

Context: **270se**  
Weight: **0.39g**

Special find no: **6539**  
Stratigraphic phase: **XCI**  
Description: **Ring**  
Dimensions: **3cm x 0.36cm**

Context: **406sw**  
Weight: **0.73g**

Special find no: **6704**  
Stratigraphic phase: **XCI**  
Description: **Ring**  
Dimensions: **3cm x 0.38cm**

Context: **416ne**  
Weight: **0.6g**

Special find no: **5681**  
Stratigraphic phase: **XCI**  
Description: **Ring**  
Dimensions: **2cm x 0.38cm**

Context: **422sw**  
Weight: **1.11g**

Special find no: **6610**  
Stratigraphic phase: **XCI**  
Description: **Ring**  
Dimensions: **3cm x 0.36cm**

Context: **425sw**  
Weight: **0.81g**

Special find no: **6735**  
Stratigraphic phase: **XCI**  
Description: **Ring**  
Dimensions: **0.4cm length**

Context: **431sw**  
Weight: **0.52g**

Special find no: **10044**  
Stratigraphic phase: **LXX**  
Description: **Ring**  
Dimensions: **0.42cm x 0.42cm**  
[Fig. 8.1]

Context: **606sw**  
Weight: **1.95g**

Special find no: **15855**  
Stratigraphic phase: **LXXXII**  
Description: **Ring**  
Dimensions: **0.37cm x 0.25cm**  
[Fig. 8.1]

Context: **601**  
Weight: **0.58g**

Special find no: **7044**  
Stratigraphic phase: **LXXV**  
Description: **Ring**  
Dimensions: **2cm x 0.44cm**  
[Fig. 8.1]

Context: **494ne**  
Weight: **0.93g**

Special find no: **7203**  
Stratigraphic phase: **LXXV**  
Description: **Ring**  
Dimensions: **2.5cm x 0.26cm**

Context: **494ne**  
Weight: **0.26g**

Special find no: **6871**  
Stratigraphic phase: **LXXXI**  
Description: **Ring**  
Dimensions: **3cm x 0.42cm**

Context: **470nw**  
Weight: **1.13g**

Special find no: **6983**  
Stratigraphic phase: **LXXXI**  
Description: **Ring**  
Dimensions: **2.5cm x 0.44cm**

Context: **470sw**  
Weight: **1.57g**

Special find no: **7162**  
Stratigraphic phase: **LXXX**  
Description: **Ring**  
Dimensions: **3cm x 0.41cm**  
[Fig. 8.1]

Context: **495sw**  
Weight: **1.13g**

### 8.4.2.4 Jewellery insert

Special find no: **261**  
Stratigraphic phase: **XCV**  
Description: **Jewellery insert with carving of humped bull**  
Dimensions: **0.95cm x 0.78cm**  
[Plate 8.3]

Context: **324ne**  
Weight: **1.1g**

### 8.4.2.5 Shaped blank

Special find no: **2289**  
Stratigraphic phase: **XCV**  
Description: **Shaped blank**  
Dimensions: **1.45cm x 0.92cm**

Context: **325ne**  
Weight: **2.45g**

Special find no: **2871**  
Stratigraphic phase: **XCIII**  
Description: **Shaped blank**  
Dimensions: **1.25cm x 0.91cm**  
[Plate 8.3]

Context: **358se**  
Weight: **2.37g**

Special find no: **2444**  
Stratigraphic phase: **XCII**  
Description: **Shaped blank**  
Dimensions: **1.3cm x 0.93cm**

Context: **364ne**  
Weight: **2.8g**

Special find no: **6330**  
Stratigraphic phase: **LXXXVI**  
Description: **Shaped blank**  
Dimensions: **1.78cm x 0.68cm**

Context: **390se**  
Weight: **1.33g**

### 8.4.2.6 Sphere

Special find no: **1946**  
Stratigraphic phase: **XCV**  
Description: **Sphere**  
Dimensions: **0.39cm x 0.45cm**

Context: **334ne**  
Weight: **0.25g**

Special find no: **17281**  
Stratigraphic phase: **XXI**  
Description: **Sphere**  
Dimensions: **0.35cm x 0.47cm**  
[Fig. 8.1]

Context: **1195nw**  
Weight: **0.08g**

#### 8.4.2.7 Squashed sphere

Special find no: 15136 Context: 600  
Stratigraphic phase: XCV Weight: 0.66g  
Description: Squashed sphere  
Dimensions: 0.89cm x 0.46cm  
[Fig. 8.1]

Special find no: 6503 Context: 417nw  
Stratigraphic phase: XCI Weight: 1.24g  
Description: Squashed sphere  
Dimensions: 1.16cm x 0.58cm

Special find no: 6339 Context: 385se  
Stratigraphic phase: XCI Weight: 0.98g  
Description: Squashed sphere  
Dimensions: 1.01cm x 0.63cm

Special find no: 6703 Context: 416ne  
Stratigraphic phase: XCI Weight: 0.76g  
Description: Squashed sphere  
Dimensions: 0.96cm x 0.54cm

#### 8.4.2.8 Barrel

Special find no: 6297 Context: 386nw  
Stratigraphic phase: XCI Weight: 0.98g  
Description: Barrel-shaped bead  
Dimensions: 1.57cm x 0.7cm  
[Fig. 8.1]

Special find no: 7123 Context: 492se  
Stratigraphic phase: LXXV Weight: 1.62g  
Description: Barrel-shaped bead  
Dimensions: 1.58cm x 0.87cm  
[Figs 8.1, 8.3]

#### 8.4.2.9 Disc

Special find no: 6396 Context: 404ne  
Stratigraphic phase: XCI Weight: 2.42g  
Description: Disc-shaped bead  
Dimensions: 1.3cm x 0.8cm

#### 8.4.2.10 Oval bead

Special find no: 5876 Context: 409sw  
Stratigraphic phase: LXXXVIII Weight: 0.24g  
Description: Oval bead  
Dimensions: 0.62cm x 0.43cm

Special find no: 10500 Context: 977ne  
Stratigraphic phase: XXVIII Weight: 0.6g  
Description: Oval bead  
Dimensions: 0.52cm x 0.46cm

#### 8.4.2.11 Intaglio or ring blank

Special find no: 5822 Context: 414sw  
Stratigraphic phase: XCI Weight: 4.19g  
Description: Intaglio or ring blank  
Dimensions: 3.2cm x 1.97cm  
[Plate 1.4]

#### 8.4.2.12 Hexagonal bead

Special find no: 6566 Context: 417nw  
Stratigraphic phase: XCI Weight: 1.26g  
Description: Hexagonal bead  
Dimensions: 1.68cm x 0.79cm

Special find no: 6890 Context: 467nw  
Stratigraphic phase: LXXXI Weight: 0.3g  
Description: Hexagonal bead  
Dimensions: 0.7cm x 0.57cm

#### 8.4.2.13 Earplug-shaped bead

Special find no: 6685 Context: 427se  
Stratigraphic phase: XCI Weight: 1.13g  
Description: Earplug-shaped bead  
Dimensions: 0.76cm x 0.88cm

#### 8.4.2.14 Button bead

Special find no: 6650 Context: 431nw  
Stratigraphic phase: XCI Weight: 7.04g  
Description: Button bead  
Dimensions: 1cm x 2.73cm  
[Plate 8.4; Fig. 8.1]

**8.4.2.15 Spherical disc**

Special find no: **15156** Context: **601se**  
 Stratigraphic phase: **LXXII** Weight: **0.31g**  
 Description: **Spherical disc bead**  
 Dimensions: **0.09cm x 1.06cm**

Special find no: **15157** Context: **601se**  
 Stratigraphic phase: **LXXII** Weight: **0.28g**  
 Description: **Spherical disc bead**  
 Dimensions: **0.09cm x 1.01cm**

Special find no: **15155** Context: **623nw**  
 Stratigraphic phase: **LXXII** Weight: **0.23g**  
 Description: **Spherical disc bead**  
 Dimensions: **0.12cm x 0.87cm**

**8.4.2.16 Faceted bead**

Special find no: **10568** Context: **977nw**  
 Stratigraphic phase: **XXVIII** Weight: **0.4g**  
 Description: **Faceted bead**  
 Dimensions: **0.64cm x 0.74cm**  
 [Fig. 8.1]

Special find no: **10569** Context: **977nw**  
 Stratigraphic phase: **XXVIII** Weight: **0.47g**  
 Description: **Faceted bead**  
 Dimensions: **0.65cm x 0.74cm**

Special find no: **10573** Context: **977sw**  
 Stratigraphic phase: **XXVIII** Weight: **0.69g**  
 Description: **Faceted bead**  
 Dimensions: **0.73cm x 0.89cm**

**8.4.2.17 Short tube**

Special find no: **17474** Context: **1208ne**  
 Stratigraphic phase: **XXI** Weight: **0.58g**  
 Description: **Tube-shaped bead**  
 Dimensions: **0.64cm x 0.7cm**

**8.4.3 Agate**

A total of 12 beads have been discovered from trench ASW2, ranging from period G to D and thus dating from

c. 200 BC to AD 1100. There is a peak in period F along with a variety of shapes.

**8.4.3.1 Bead blanks**

Special find no: **5993** Context: **283**  
 Stratigraphic phase: **XCV** Weight: **0.28g**  
 Description: **Bead blank**  
 Dimensions: **0.5cm x 0.77cm**

Special find no: **8667** Context: **304sw**  
 Stratigraphic phase: **XCIII** Weight: **4.92g**  
 Description: **Bead blank**  
 Dimensions: **1.52cm x 1.03cm**

Special find no: **8001** Context: **358**  
 Stratigraphic phase: **XCIII** Weight: **0.29g**  
 Description: **Bead blank**  
 Dimensions: **0.62cm x 0.76cm**

Special find no: **5991** Context: **369**  
 Stratigraphic phase: **XCIII** Weight: **0.67g**  
 Description: **Bead blank**  
 Dimensions: **0.73cm x 1.16cm**

Special find no: **5998** Context: **395sw**  
 Stratigraphic phase: **XCI** Weight: **1.83g**  
 Description: **Bead blank**  
 Dimensions: **1.02cm x 1.13cm**

**8.4.3.2 Lugged sphere bead**

Special find no: **2228** Context: **370sw**  
 Stratigraphic phase: **XCIII** Weight: **1.24g**  
 Description: **Lugged sphere**  
 Dimensions: **1.2cm x 1.35cm**

Special find no: **2231** Context: **370sw**  
 Stratigraphic phase: **XCIII** Weight: **1.52g**  
 Description: **Lugged sphere**  
 Dimensions: **1.53cm x 1.4cm**  
 [Fig. 8.1]

Special find no: **2232** Context: **370sw**  
 Stratigraphic phase: **XCIII** Weight: **1.6g**  
 Description: **Lugged sphere**  
 Dimensions: **1cm x 1.27cm**  
 [Fig. 8.1]

**8.4.3.3 Shaped blank**

Special find no: **5999** Context: **358**  
 Stratigraphic phase: **XCIII** Weight: **0.4g**  
 Description: **Shaped blank**  
 Dimensions: **0.58cm x 0.62cm**

#### 8.4.3.4 Oval bead

Special find no: 2078      Context: 306se  
Stratigraphic phase: XCIII      Weight: 1.01g  
Description: **Oval**  
Dimensions: 0.9cm x 0.95cm  
[Fig. 8.1]

#### 8.4.3.5 Lugged triangular bead

Special find no: 6369      Context: 399se  
Stratigraphic phase: XCI      Weight: 0.65g  
Description: **Lugged triangular**  
Dimensions: 0.89cm x 0.5cm

#### 8.4.3.6 Squashed sphere

Special find no: 6485      Context: 414sw  
Stratigraphic phase: XCI      Weight: 1.41g  
Description: **Squashed sphere**  
Dimensions: 1.15cm x 0.7cm  
[Fig. 8.2]

### 8.4.4 Chalcedony

Three beads of chalcedony have been found from periods B and G: a time range from c. 200 BC to AD 1100.

#### 8.4.4.1 Rod-shaped blank

Special find no: 5141      Context: 9se  
Stratigraphic phase: CVI      Weight: 3.1g  
Description: **Rod or undrilled blank**  
Dimensions: 1.07cm length  
[Fig. 8.2]

#### 8.4.4.2 Bead debitage

Special find no: 1266      Context: 41sw  
Stratigraphic phase: C      Weight: 1.54g  
Description: **Bead debitage**  
Dimensions: 1.6cm x 0.8cm

#### 8.4.4.3 Cube-shaped bead

Special find no: 5667      Context: 427  
Stratigraphic phase: XCI      Weight: 0.82g  
Description: **Cube**  
Dimensions: 1.13cm x 0.35cm  
[Fig. 8.2]

### 8.4.5 Jasper

Two beads of jasper, one of which has been identified as Egyptian, have been found from period B (c. AD 600–1100).

Special find no: 113      Context: 34ne  
Stratigraphic phase: XCVIII      Weight: 0.75g  
Description: **Egyptian jasper**  
Dimensions:

Special find no: 870      Context: 25nw  
Stratigraphic phase: XCVII      Weight: 0.9g  
Description:  
Dimensions:

### 8.4.6 Sard

The only sard object is debitage from period I (c. 360 cal. BC–190 cal. BC).

Special find no: 10576      Context: 1101se  
Stratigraphic phase: XXVI      Weight: 4.43g  
Description: **Bead debitage**  
Dimensions: 1.14cm x 1.99cm

## 8.5 Garnet

Normally associated with metamorphic rocks, this semi-precious gem displays a variety of colours, notably red or brown (Whitten and Brooks 1972: 197). It is a very hard mineral and is sometimes used as an abrasive as well as jewellery. The presence of garnet in the Indian subcontinent is common, such as at the Mogok stone tract, Burma; Kishengarh, Jaipur and Mewar in Rajasthan; Nellore in Andhra Pradesh; Tirunelveli and south Kanara in Madras (Tamil Nadu); and in southwest Sri Lanka (Krishnan 1982: 159). Garnets are also common in the Highland Series in north-central Sri Lanka, such as the garnet-sillimanite granitic gneisses near Dambulla (Cooray 1984: 81). In fact, the garnets from Sri Lanka are unique, owing to apatite inclusions, and are thus diagnostic of a Sri Lankan origin. However,

minerals from metamorphic rocks produce small crystals and are an unlikely source for the larger gems, which have been formed in skarns (contact between intrusive granite and marble) (Cooray 1984). Large brown garnets are known from the skarn at Demodera, southern Sri Lanka. Garnet has been found at Piprahwa in the upper Gangetic plains (Lahiri 1992) and at Kausambi in the middle Gangetic plains. Nagda in central India has garnet beads, as has Maski in northern Karnataka. Eighty-one pieces of garnet have been found, dating from c. 510 cal. BC to AD 1100, with the majority occurring in period F, phases XCIII and XCII. Debitage dominates the sub-assembly, indicating bead manufacture, and the variety of shapes suggests specialist production.

### 8.5.1 Bead blanks

Special find no: 1682  
Stratigraphic phase: XCV  
Description: **Bead blank**  
Dimensions: 2.1cm x 0.6cm

Context: 272se  
Weight: 4.08g

Special find no: 5850  
Stratigraphic phase: XCV  
Description: **Bead blank**  
Dimensions: 0.61cm x 0.54cm

Context: 283ne  
Weight: 0.86g

Special find no: 1814  
Stratigraphic phase: XCV  
Description: **Bead blank**  
Dimensions: 1cm x 0.48cm

Context: 316ne  
Weight: 0.54g

Special find no: 2294  
Stratigraphic phase: XCV  
Description: **Bead blank**  
Dimensions: 0.78cm x 0.4cm

Context: 325ne  
Weight: 0.7g

Special find no: 8676  
Stratigraphic phase: XCII  
Description: **Bead blank**  
Dimensions: 1.75cm x 1.59cm

Context: 365nw  
Weight: 5.64g

Special find no: 2946  
Stratigraphic phase: XCIII  
Description: **Bead blank**  
Dimensions: 1.63cm x 0.89cm

Context: 304ne  
Weight: 5.14g

Special find no: 16819  
Stratigraphic phase: XXVIII  
Description: **Bead blank**  
Dimensions: 0.84cm x 1.7cm

Context: 977sw  
Weight: 4.19g

Special find no: 6224  
Stratigraphic phase: XCV  
Description: **Bead blank**  
Dimensions: 0.9cm x 0.33cm

Context: 313sw  
Weight: 0.42g

Special find no: 8023  
Stratigraphic phase: XCV  
Description: **Bead blank**  
Dimensions: 1.4cm x 0.89cm

Context: 410sw  
Weight: 2.8g

Special find no: 2191  
Stratigraphic phase: XCV  
Description: **Bead blank**  
Dimensions: 1cm x 0.45cm

Context: 316ne  
Weight: 0.9g

Special find no: 2295  
Stratigraphic phase: XCV  
Description: **Bead blank**  
Dimensions: 0.65cm x 0.5cm

Context: 325ne  
Weight: 0.62g

Special find no: 5590  
Stratigraphic phase: XCIII  
Description: **Bead blank**  
Dimensions: 1cm x 0.33cm

Context: 358se  
Weight: 0.52g

Special find no: 2805  
Stratigraphic phase: XCIII  
Description: **Bead blank**  
Dimensions: 0.7cm x 0.47cm

Context: 374nw  
Weight: 0.6g

Special find no: 10513  
Stratigraphic phase: XXVIII  
Description: **Bead blank**  
Dimensions: 2.34cm x 1.99cm

Context: 977se  
Weight: 12.12g

### 8.5.2 Bead debitage

Special find no: 1266  
Stratigraphic phase: C  
Description: **Bead debitage**  
Dimensions: 1.6cm x 0.8cm

Context: 41sw  
Weight: 1.54g

Special find no: 1273  
Stratigraphic phase: CXIII  
Description: **Bead debitage**  
Dimensions: 0.4cm x 0.2cm

Context: 71sw  
Weight: 0.07g

Special find no: 5851  
Stratigraphic phase: XCV  
Description: **Bead debitage**  
Dimensions: 0.8cm x 0.38cm

Context: 283ne  
Weight: 0.27g

Special find no: 1211  
Stratigraphic phase: CXIII  
Description: **Bead debitage**  
Dimensions: 1.25cm x 0.42cm

Context: 71sw  
Weight: 0.6g

Special find no: 8014  
Stratigraphic phase: XCV  
Description: **Bead debitage**  
Dimensions: 0.63cm x 0.54cm

Context: 313sw  
Weight: 0.31g

Special find no: 2348  
Stratigraphic phase: XCV  
Description: **Tiny chip of bead debitage**  
Dimensions: Chip

Context: 325ne  
Weight: 0.05g



Special find no: 8015 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.37cm x 0.6cm	Context: 313sw Weight: 0.22g	Special find no: 1801 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.85cm x 0.35cm	Context: 324ne Weight: 0.33g
Special find no: 2346 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.6cm x 0.5cm	Context: 325ne Weight: 0.35g	Special find no: 2347 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.6cm x 0.4cm	Context: 325ne Weight: 0.33g
Special find no: 15552 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.61cm x 0.44cm	Context: 600 Weight: 0.28g	Special find no: 5668 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.68cm x 0.24cm	Context: 394sw Weight: 0.16g
Special find no: 5659 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 0.65cm x 0.24cm	Context: 365nw Weight: 0.13g	Special find no: 5660 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 0.53cm x 0.38cm	Context: 365nw Weight: 0.14g
Special find no: 2043 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.7cm x 0.3cm	Context: 304ne Weight: 0.14g	Special find no: 2101 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.85cm x 0.22cm	Context: 306se Weight: 0.18g
Special find no: 2044 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.7cm x 0.16cm	Context: 304ne Weight: 0.07g	Special find no: 2062 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.8cm x 0.3cm	Context: 304ne Weight: 0.24g
Special find no: 2063 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.66cm x 0.3cm	Context: 304ne Weight: 0.25g	Special find no: 2064 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.55cm x 0.25cm	Context: 304ne Weight: 0.16g
Special find no: 2065 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.56cm x 0.21cm	Context: 304ne Weight: 0.15g	Special find no: 2066 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.65cm x 0.24cm	Context: 304ne Weight: 0.17g
Special find no: 5008 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.75cm x 0.3cm	Context: 304ne Weight: 0.17g	Special find no: 5009 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.52cm x 0.15cm	Context: 304ne Weight: 0.09g
Special find no: 5010 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.61cm x 0.2cm	Context: 304ne Weight: 0.08g	Special find no: 5011 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.53cm x 0.25cm	Context: 304ne Weight: 0.08g
Special find no: 5012 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.51cm x 0.18cm	Context: 304ne Weight: 0.09g	Special find no: 5013 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.55cm x 0.3cm	Context: 304ne Weight: 0.06g
Special find no: 5014 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.55cm x 0.13cm	Context: 304ne Weight: 0.06g	Special find no: 5015 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.5cm x 0.11cm	Context: 304ne Weight: 0.04g
Special find no: 5016 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.5cm x 0.12cm	Context: 304ne Weight: 0.04g	Special find no: 5199 Stratigraphic phase: XCIII Description: <b>35 small chips of bead debitage</b> Dimensions: chips [Plate 1.4]	Context: 304ne Weight: 3.43g
Special find no: 5216 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.46cm x 0.17cm	Context: 304ne Weight: 0.4g	Special find no: 5900 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.72cm x 0.51cm	Context: 304ne Weight: 2.18g
Special find no: 5897 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 0.83cm x 0.33cm	Context: 385se Weight: 0.38g	Special find no: 5896 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.02cm x 0.4cm	Context: 385se Weight: 0.64g
Special find no: 5826 Stratigraphic phase: XCI	Context: 400se Weight: 0.61g	Special find no: 5827 Stratigraphic phase: XCI	Context: 400se Weight: 0.25g

Description: **Bead debitage**  
Dimensions: **0.84cm x 0.5cm**

Special find no: **8050**  
Stratigraphic phase: **LXXXI**  
Description: **Bead debitage**

Context: **467nw**  
Weight: **0.42g**

Special find no: **17512**  
Stratigraphic phase: **XXIII**  
Description: **Bead debitage**  
Dimensions: **0.38cm x 1.53cm**

Context: **1125se**  
Weight: **0.65g**

Special find no: **17469**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.5cm x 1.02cm**

Context: **1172se**  
Weight: **0.54g**

Special find no: **17471**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.36cm x 0.63cm**

Context: **1172se**  
Weight: **0.24g**

Special find no: **10648**  
Stratigraphic phase: **XX**  
Description: **Bead debitage**  
Dimensions: **0.38cm x 1.13cm**

Context: **1174nw**  
Weight: **0.98g**

Description: **Bead debitage**  
Dimensions: **0.72cm x 0.25cm**

Special find no: **10582**  
Stratigraphic phase: **XXVII**  
Description: **Bead debitage**  
Dimensions: **0.24cm x 0.83cm**

Context: **1107se**  
Weight: **0.37g**

Special find no: **17473**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.24cm x 0.55cm**

Context: **1172se**  
Weight: **0.08g**

Special find no: **17470**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.24cm x 1.76cm**

Context: **1172se**  
Weight: **0.26g**

Special find no: **17472**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.33cm x 0.75cm**

Context: **1172se**  
Weight: **0.26g**

Special find no: **17290**  
Stratigraphic phase: **XIX**  
Description: **Bead debitage**  
Dimensions: **0.25cm x 0.74cm**

Context: **1292se**  
Weight: **0.05g**

### 8.5.3 Jewellery insert

Special find no: **1815**  
Stratigraphic phase: **XCV**  
Description: **Jewellery insert**  
Dimensions: **0.73cm x 0.25cm**

Context: **316ne**  
Weight: **0.35g**

Special find no: **2150**  
Stratigraphic phase: **XCV**  
Description: **Jewellery insert**  
Dimensions: **0.74cm x 0.45cm**

Context: **301ne**  
Weight: **0.63g**

Special find no: **2175**  
Stratigraphic phase: **XCV**  
Description: **Jewellery insert**  
Dimensions: **0.85cm x 0.3cm**

Context: **324ne**  
Weight: **0.14g**

Special find no: **1975**  
Stratigraphic phase: **XCIII**  
Description: **Jewellery insert**  
Dimensions: **1.03cm x 0.54cm**

Context: **73nw**  
Weight: **1.15g**

### 8.5.4 Intaglio blank

Special find no: **3619**  
Stratigraphic phase: **XCIII**  
Description: **Intaglio blank**  
Dimensions: **0.56cm x 0.36cm**

Context: **370sw**  
Weight: **0.21g**

Special find no: **3819**  
Stratigraphic phase: **XCIII**  
Description: **Intaglio blank**  
Dimensions: **0.81cm x 0.27cm**

Context: **370sw**  
Weight: **0.19g**

Special find no: **4978**  
Stratigraphic phase: **XCIII**  
Description: **Intaglio blank**  
Dimensions: **0.57cm x 0.22cm**

Context: **370sw**  
Weight: **0.14g**

Special find no: **3708**  
Stratigraphic phase: **XCIII**  
Description: **Intaglio blank**  
Dimensions: **0.87cm x 0.45cm**

Context: **370sw**  
Weight: **0.28g**

Special find no: **4443**  
Stratigraphic phase: **XCIII**  
Description: **Intaglio blank**  
Dimensions: **0.66cm x 0.28cm**

Context: **370sw**  
Weight: **0.16g**

Special find no: **4899**  
Stratigraphic phase: **XCIII**  
Description: **Intaglio blank**  
Dimensions: **0.73cm x 0.22cm**

Context: **370sw**  
Weight: **0.12g**

### 8.5.5 Spherical disc

Special find no: **15129**  
Stratigraphic phase: **XCV**  
Description: **Spherical disc**  
Dimensions: **0.47cm x 0.45cm**

Context: **600**  
Weight: **0.19g**

Special find no: **16340**  
Stratigraphic phase: **XXXIX**  
Description: **Spherical disc**  
Dimensions: **0.43cm x 0.55cm**

Context: **831se**  
Weight: **0.42g**

### 8.5.6 Sphere

Special find no: **15266**  
Stratigraphic phase: **LXVIII**  
Description: **Sphere**  
Dimensions: **0.36cm x 0.51cm**

Context: **615nw**  
Weight: **0.29g**

### 8.5.7 Rod

Special find no: 15306 Context: 630ne  
Stratigraphic phase: LXXVI Weight: 1.76g  
Description: Rod-shaped bead  
Dimensions: 0.75cm x 1.06cm

### 8.5.8 Disc

Special find no: 15260 Context: 615  
Stratigraphic phase: LXVIII Weight: 0.17g  
Description: Disc bead  
Dimensions: 0.82cm x 0.11cm

### 8.5.9 Faceted bead

Special find no: 16255 Context: 787se  
Stratigraphic phase: XLIII Weight: 0.4g  
Description: Faceted bead  
Dimensions: 0.53cm x 0.63cm  
[Fig. 8.2]

### 8.5.10 Angular disc

Special find no: 10472 Context: 977ne  
Stratigraphic phase: XXVIII Weight: 0.46g  
Description: Angular disc  
Dimensions: 0.46cm x 0.75cm

### 8.5.11 Shaped blank

Special find no: 17603 Context: 1113nw  
Stratigraphic phase: XXVII Weight: 0.73g  
Description: Shaped blank  
Dimensions: 0.24cm x 0.66cm

### 8.5.12 Rectangular spacer

Special find no: 17457 Context: 1172se  
Stratigraphic phase: XXII Weight: 0.19g  
Description: Rectangular spacer  
Dimensions: 0.54cm x 0.24cm

## 8.6 Amethyst

This mineral is a form of transparent quartz; it varies from deep purple to a pale blue colour or may even be colourless (Roberts *et al.* 1974: 504). It is commonly found in volcanic rocks such as the Deccan traps of central India (Krishnan 1982: 419). Amethyst beads have also been found at Taxila in Pakistan and at Ahichchhatra, Jakhara, Mathura and Sravasti (upper Gangetic plains) and Maski (northern Karnataka) (Lahiri 1992). A total of 91 amethyst objects have been

discovered, ranging from period I to B and thus dating from c. 360 cal. BC to AD 1100. The peak is in period F with 32 objects, including bead blanks, sphere-shaped beads and debitage. Period G follows with 24 artefacts and has the widest variety of objects, consisting of bead blanks, lugged triangular, squashed sphere, lugged barrel, squashed, and lugged sphere beads, debitage and a ring

### 8.6.1 Bead blanks

Special find no: 1045 Context: 41sw  
Stratigraphic phase: C Weight: 2.11g  
Description: Bead blank  
Dimensions: 1.33cm x 1.11cm

Special find no: 1046 Context: 41sw  
Stratigraphic phase: C Weight: 0.67g  
Description: Bead blank  
Dimensions: 1.3cm x 1.2cm

Special find no: 1465 Context: 41sw  
Stratigraphic phase: C Weight: 2.64g  
Description: Bead blank  
Dimensions: 2cm x 0.8cm

Special find no: 1048 Context: 41sw  
Stratigraphic phase: C Weight: 0.6g  
Description: Bead blank  
Dimensions: 0.91cm x 1.23cm

# Stone Objects

Special find no: 1272 Stratigraphic phase: C Description: <b>Bead blank</b> Dimensions: 0.9cm x 0.3cm	Context: 41se Weight: 0.25g	Special find no: 1190 Stratigraphic phase: XCVII Description: <b>Bead blank</b> Dimensions: 2.6cm x 1.6cm	Context: 25ne Weight: 5.94g
Special find no: 1384 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.6cm x 0.5cm	Context: 103nw Weight: 0.92g	Special find no: 1538 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.53cm x 1.2cm	Context: 254se Weight: 2.15g
Special find no: 2367 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.85cm x 1.35cm	Context: 256se Weight: 6.38g	Special find no: 2355 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 2.1cm x 1.1cm	Context: 284nw Weight: 0.19g
Special find no: 5780 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.77cm x 1.24cm	Context: 334ne Weight: 3.23g	Special find no: 2764 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.8cm x 0.6cm	Context: 356ne Weight: 1.07g
Special find no: 5830 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 2.11cm x 0.58cm	Context: 401sw Weight: 3.52g	Special find no: 6968 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 2.48cm x 0.9cm	Context: 429sw Weight: 4.47g
Special find no: 2293 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.57cm x 0.7cm	Context: 325ne Weight: 1.72g	Special find no: 2940 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 1.4cm x 0.67cm	Context: 365nw Weight: 1.04g
Special find no: 1928 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 4.16cm x 3.3cm	Context: 73se Weight: 34.6g	Special find no: 8795 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.96cm x 1.28cm	Context: 73sw Weight: 6.39g
Special find no: 2874 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 0.85cm x 0.52cm	Context: 364ne Weight: 0.67g	Special find no: 6096 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.35cm x 0.43cm	Context: 378se Weight: 0.61g
Special find no: 2000 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.7cm x 1.2cm	Context: 304ne Weight: 3.59g	Special find no: 2001 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 2.45cm x 1.55cm	Context: 304ne Weight: 6.49g
Special find no: 2040 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.24cm x 0.9cm	Context: 304ne Weight: 1.48g	Special find no: 2932 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 4.65cm x 2.1cm	Context: 304ne Weight: 24.7g
Special find no: 2958 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.73cm x 1.2cm	Context: 304ne Weight: 2.97g	Special find no: 5021 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 3.6cm x 2.3cm	Context: 304ne Weight: 30.64g
Special find no: 6111 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 2.53cm x 1.45cm	Context: 305sw Weight: 11.93g	Special find no: 8493 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.14cm x 1.06cm	Context: 305sw Weight: 0.75g
Special find no: 8494 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.05cm x 1.13cm	Context: 305sw Weight: 0.66g	Special find no: 8673 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.52cm x 1.09cm	Context: 374nw Weight: 0.76g
Special find no: 5804 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 1.53cm x 1.88cm	Context: 403nw Weight: 2.36g	Special find no: 6341 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 2.1cm x 1.37cm	Context: 385se Weight: 12.57g
Special find no: 8495 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 0.88cm x 0.62cm	Context: 414sw Weight: 0.17g	Special find no: 6328 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 1.42cm x 0.63cm	Context: 400se Weight: 1.35g
Special find no: 6808 Stratigraphic phase: LXXXI Description: <b>Bead blank</b> Dimensions: 2.15cm x 1.79cm	Context: 470nw Weight: 3.78g	Special find no: 15621 Stratigraphic phase: LXXXIII Description: <b>Bead blank</b> Dimensions: 2.14cm x 1.35cm	Context: 632ne Weight: 2.28g

Special find no: 2387 Context: 375nw  
Stratigraphic phase: LXXXVIII Weight: 0.91g  
Description: **Bead blank**  
Dimensions: 1.45cm x 0.4cm

### 8.6.2 Bead debitage

Special find no: 1047 Context: 41sw  
Stratigraphic phase: C Weight: 0.56g  
Description: **Bead debitage**  
Dimensions: 1.4cm x 0.83cm

Special find no: 1191 Context: 25ne  
Stratigraphic phase: XCVII Weight: 0.17g  
Description: **Bead debitage**  
Dimensions: 0.8cm x 0.33cm

Special find no: 1193 Context: 25ne  
Stratigraphic phase: XCVII Weight: 0.18g  
Description: **Bead debitage**  
Dimensions: 1.1cm x 0.3cm

Special find no: 1248 Context: 42nw  
Stratigraphic phase: XCV Weight: 0.41g  
Description: **Bead debitage**  
Dimensions: 1.07cm x 0.39cm

Special find no: 1251 Context: 88ne  
Stratigraphic phase: XCV Weight: 0.35g  
Description: **Bead debitage**  
Dimensions: 0.89cm x 0.43cm

Special find no: 1253 Context: 88ne  
Stratigraphic phase: XCV Weight: 0.26g  
Description: **Bead debitage**  
Dimensions: 1.34cm x 0.3cm

Special find no: 15554 Context: 600  
Stratigraphic phase: XCV Weight: 0.07g  
Description: **Bead debitage**  
Dimensions: 0.67cm x 0.4cm

Special find no: 2837 Context: 373nw  
Stratigraphic phase: XCV Weight: 0.46g  
Description: **Bead debitage**  
Dimensions: 1.45cm x 0.4cm

Special find no: 2455 Context: 364ne  
Stratigraphic phase: XCII Weight: 0.34g  
Description: **Bead debitage**  
Dimensions: 0.95cm x 0.47cm

Special find no: 5656 Context: 365nw  
Stratigraphic phase: XCII Weight: 0.4g  
Description: **Bead debitage**  
Dimensions: 1.06cm x 0.26cm

Special find no: 5756 Context: 367sw  
Stratigraphic phase: XCII Weight: 0.61g  
Description: **Bead debitage**  
Dimensions: 1.25cm x 1.41cm

Special find no: 8679 Context: 366sw  
Stratigraphic phase: XCII Weight: 0.28g  
Description: **2 pieces of bead debitage**  
Dimensions: 0.68cm x 0.88cm

Special find no: 5904 Context: 304ne  
Stratigraphic phase: XCIII Weight: 0.64g  
Description: **Bead debitage**  
Dimensions: 1.05cm x 0.45cm

Special find no: 2098 Context: 306se  
Stratigraphic phase: XCIII Weight: 0.26g  
Description: **Bead debitage**  
Dimensions: 1.2cm x 0.5cm

Special find no: 1049 Context: 41sw  
Stratigraphic phase: C Weight: 0.16g  
Description: **Bead debitage**  
Dimensions: 0.84cm x 0.78cm

Special find no: 1192 Context: 25ne  
Stratigraphic phase: XCVII Weight: 0.45g  
Description: **Bead debitage**  
Dimensions: 1.07cm x 0.45cm

Special find no: 2199 Context: 320ne  
Stratigraphic phase: XCV Weight: 0.11g  
Description: **Bead debitage**  
Dimensions: 0.55cm x 0.23cm

Special find no: 1240 Context: 87sw  
Stratigraphic phase: XCV Weight: 0.17g  
Description: **Bead debitage**  
Dimensions: 0.8cm x 0.4cm

Special find no: 1252 Context: 88ne  
Stratigraphic phase: XCV Weight: 0.23g  
Description: **Bead debitage**  
Dimensions: 0.85cm x 0.35cm

Special find no: 1392 Context: 134ne  
Stratigraphic phase: XCV Weight: 0.74g  
Description: **Bead debitage**  
Dimensions: 1.35cm x 0.5cm

Special find no: 15857 Context: 600  
Stratigraphic phase: XCV Weight: 0.07g  
Description: **Bead debitage**  
Dimensions: 0.73cm x 0.28cm

Special find no: 2345 Context: 325ne  
Stratigraphic phase: XCV Weight: 0.07g  
Description: **Bead debitage**  
Dimensions: 0.8cm x 0.15cm

Special find no: 6088 Context: 364ne  
Stratigraphic phase: XCII Weight: 0.87g  
Description: **Bead debitage**  
Dimensions: 1.36cm x 0.24cm

Special find no: 5755 Context: 367sw  
Stratigraphic phase: XCII Weight: 0.99g  
Description: **Bead debitage**  
Dimensions: 1.41cm x 0.76cm

Special find no: 5757 Context: 367sw  
Stratigraphic phase: XCII Weight: 0.2g  
Description: **Bead debitage**  
Dimensions: 0.76cm x 0.36cm

Special find no: 2451 Context: 364ne  
Stratigraphic phase: XCII Weight: 0.42g  
Description: **Bead debitage**  
Dimensions: 0.83cm x 0.42cm

Special find no: 5905 Context: 304ne  
Stratigraphic phase: XCIII Weight: 0.06g  
Description: **Bead debitage**  
Dimensions: 0.74cm x 0.16cm

Special find no: 2099 Context: 306se  
Stratigraphic phase: XCIII Weight: 0.24g  
Description: **Bead debitage**  
Dimensions: 1.15cm x 0.4cm

Special find no: 2100  
Stratigraphic phase: XCIII  
Description: **Bead debitage**  
Dimensions: 1.1cm x 0.32cm

Context: 306se  
Weight: 0.28g

Special find no: 5825  
Stratigraphic phase: XCI  
Description: **Bead debitage**  
Dimensions: 0.91cm x 0.32cm

Context: 400se  
Weight: 0.17g

Special find no: 6406  
Stratigraphic phase: XCI  
Description: **Bead debitage**  
Dimensions: 0.7cm x 0.15cm

Context: 399se  
Weight: 0.03g

Special find no: 5863  
Stratigraphic phase: XCI  
Description: **Bead debitage**  
Dimensions: 2.17cm x 0.95cm

Context: 399ne  
Weight: 2.54g

Special find no: 15432  
Stratigraphic phase: LXXIII  
Description: **Bead debitage**  
Dimensions: 1.34cm x 0.88cm

Context: 635nw  
Weight: 0.6g

Special find no: 8275  
Stratigraphic phase: LXXV  
Description: **Bead debitage**  
Dimensions: 1.53cm x 0.52cm

Context: 493se  
Weight: 3.73g

Special find no: 15305  
Stratigraphic phase: LXXVI  
Description: **Bead debitage**  
Dimensions: 1.42cm x 0.48cm

Context: 630ne  
Weight: 0.65g

Special find no: 6872  
Stratigraphic phase: LXXXI  
Description: **Bead debitage**  
Dimensions: 1.05cm x 0.55cm

Context: 470nw  
Weight: 0.74g

Special find no: 6713  
Stratigraphic phase: LXXXVI  
Description: **Bead debitage**  
Dimensions: 0.75cm x 0.4cm

Context: 390se  
Weight: 0.3g

Special find no: 6773  
Stratigraphic phase: LXXXVII  
Description: **Bead debitage**  
Dimensions: 1.2cm x 0.22cm

Context: 437ne  
Weight: 0.23g

Special find no: 16997  
Stratigraphic phase: XXVIII  
Description: **Bead debitage**  
Dimensions: 1.03cm x 1.59cm

Context: 977ne  
Weight: 2.21g

### 6.3 Jewellery insert

Special find no: 2122  
Stratigraphic phase: XCV  
Description: **Jewellery insert**  
Dimensions: 1.2cm x 0.65cm

Context: 316ne  
Weight: 0.88g

### 6.4 Undiagnostic

Special find no: 1951  
Stratigraphic phase: XCV  
Description: **Undiagnostic**  
Dimensions: 0.07cm length

Context: 320ne  
Weight: 0.01g

### 6.5 Spherical disc bead

Special find no: 1924  
Stratigraphic phase: XCV  
Description: **Spherical disc bead**  
Dimensions: 0.43cm x 0.44cm

Context: 335ne  
Weight: 0.09g

### 6.6 Shaped blank

Special find no: 2212  
Stratigraphic phase: XCII  
Description: **Shaped blank**  
Dimensions: 2.75cm x 0.35cm  
[fig. 8.3]

Context: 73ne  
Weight: 5.98g

### 6.7 Sphere

Special find no: 2989  
Stratigraphic phase: XCII  
Description: **Sphere bead**  
Dimensions: 0.6cm x 0.73cm

Context: 365nw  
Weight: 0.51g

Special find no: 6006  
Stratigraphic phase: XCII  
Description: **Sphere bead**  
Dimensions: 0.59cm x 0.97cm

Context: 367sw  
Weight: 0.83g

### 6.8 Lugged triangular bead

Special find no: 6304  
Stratigraphic phase: XCI  
Description: **Lugged triangular bead**  
Dimensions: 0.82cm x 0.49cm

Context: 386nw  
Weight: 0.43g

### 8.6.9 Squashed sphere bead

Special find no: 5375 Context: 390se  
Stratigraphic phase: LXXXVI Weight: 0.64g  
Description: Squashed sphere bead  
Dimensions: 0.95cm x 0.95cm

Special find no: 7195 Context: 493se  
Stratigraphic phase: LXXV Weight: 0.42g  
Description: Squashed sphere bead  
Dimensions: 0.74cm x 0.43cm

### 8.6.10 Lugged barrel bead

Special find no: 7014 Context: 487ne  
Stratigraphic phase: LXXXI Weight: 1.01g  
Description: Lugged barrel bead  
Dimensions: 1.5cm x 0.71cm  
[Fig. 8.2]

Special find no: 8079 Context: 494ne  
Stratigraphic phase: LXXV Weight: 0.82g  
Description: Lugged barrel bead  
Dimensions: 1.36cm x 0.67cm

### 8.6.11 Squashed bead

Special find no: 8112 Context: 494ne  
Stratigraphic phase: LXXV Weight: 0.92g  
Description: Squashed bead  
Dimensions: 1.33cm x 0.41cm

### 8.6.12 Lugged sphere bead

Special find no: 15679 Context: 503ne  
Stratigraphic phase: LXXVI Weight: 0.96g  
Description: Lugged sphere bead  
Dimensions: 0.99cm x 0.82cm  
[Plate 1.4]

### 8.6.13 Ring

Special find no: 10179 Context: 670sw  
Stratigraphic phase: LXIV Weight: 0.63g  
Description: Ring  
Dimensions: 0.34cm x 0.34cm

## 8.7 Amazonite

This green mineral is a form of microcline feldspar (alkali feldspar) (Roberts *et al.* 1974: 405). It is found in Nellore (Andhra Pradesh, southern India), Bihar (eastern India) (Krishnan 1982: 158) and in the granites of Tosham, northwest of Delhi (Lahiri 1992: 82). Palanpur in northern Gujarat is also a source of amazonite (*ibid.*: 106). Elsewhere, it occurs in Colorado and Virginia in

the USA, Canada, Mexico, Brazil, Norway, Sweden, Germany and Russia (Roberts *et al.* 1974: 405). Microcline is a common mineral in the Vijayan complex in Sri Lanka, which represents the local geology of Anuradhapura (Cooray 1984: 104). Navdatoli in central India has yielded amazonite beads (Lahiri 1992: 326).

### 8.7.1 Shaped blank

Special find no: 337 Context: 130sw  
Stratigraphic phase: XCV Weight: 3.52g  
Description: Shaped blank  
Dimensions: 1.9cm x 1.12cm  
[Fig. 8.3]

## 8.8 Quartz

Quartz is one of the most abundant minerals on the Earth's crust and an essential constituent of igneous, metamorphic and sedimentary rocks. It is found all over the world and is present in Sri Lanka, suggesting local

exploitation (Roberts *et al.* 1974). Quartz crystal beads have been discovered at Taxila in Pakistan and Ahichchhatra in the upper Gangetic plains and at Maski in northern Karnataka (Lahiri 1992: 274, 295, 344).

### 8.8.1 Clear quartz

A total of 231 clear quartz, or quartz crystal, objects have been discovered including a variety of bead shapes, along with bangles and rings, and debitage indicating local

manufacture. They range from period J to B and thus date from c. 510 cal. BC to AD 1100, with the largest frequency in period D, followed by period F.

8.8.1.1 *Bead blanks*

Special find no: <b>1054</b> Stratigraphic phase: <b>C</b> Description: <b>Bead blank</b> Dimensions: <b>1.25cm x 1.2cm</b>	Context: <b>41sw</b> Weight: <b>1.64g</b>	Special find no: <b>1055</b> Stratigraphic phase: <b>C</b> Description: <b>Bead blank</b> Dimensions: <b>1.82cm x 0.9cm</b>	Context: <b>41sw</b> Weight: <b>0.94g</b>
Special find no: <b>1063</b> Stratigraphic phase: <b>C</b> Description: <b>Bead blank</b> Dimensions: <b>1.57cm x 0.65cm</b>	Context: <b>41sw</b> Weight: <b>0.76g</b>	Special find no: <b>1269</b> Stratigraphic phase: <b>C</b> Description: <b>Bead blank</b> Dimensions: <b>1.8cm x 0.5cm</b>	Context: <b>41se</b> Weight: <b>1.33g</b>
Special find no: <b>1053</b> Stratigraphic phase: <b>C</b> Description: <b>Bead blank</b> Dimensions: <b>1.44cm x 1.1cm</b>	Context: <b>41sw</b> Weight: <b>1.36g</b>	Special find no: <b>1395</b> Stratigraphic phase: <b>CV</b> Description: <b>Bead blank</b> Dimensions: <b>2.25cm x 0.85cm</b>	Context: <b>18nw</b> Weight: <b>4.25g</b>
Special find no: <b>1235</b> Stratigraphic phase: <b>CXI</b> Description: <b>Bead blank</b> Dimensions: <b>2.3cm x 1.5cm</b>	Context: <b>15se</b> Weight: <b>3.55g</b>	Special find no: <b>5058</b> Stratigraphic phase: <b>CXIV</b> Description: <b>Bead blank</b> Dimensions: <b>3.2cm x 1.45cm</b>	Context: <b>4ne</b> Weight: <b>10.76g</b>
Special find no: <b>1390</b> Stratigraphic phase: <b>XCVI</b> Description: <b>Bead blank</b> Dimensions: <b>2.7cm x 1.1cm</b>	Context: <b>129se</b> Weight: <b>6.34g</b>	Special find no: <b>1230</b> Stratigraphic phase: <b>XCVII</b> Description: <b>Bead blank</b> Dimensions: <b>2.05cm x 0.36cm</b>	Context: <b>25nw</b> Weight: <b>1.06g</b>
Special find no: <b>5059</b> Stratigraphic phase: <b>XCVII</b> Description: <b>Bead blank</b> Dimensions: <b>1.8cm x 0.7cm</b>	Context: <b>25ne</b> Weight: <b>3.63g</b>	Special find no: <b>1381</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.7cm x 0.95cm</b>	Context: <b>134ne</b> Weight: <b>1.44g</b>
Special find no: <b>5263</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>2.18cm x 0.62cm</b>	Context: <b>76ne</b> Weight: <b>0.17g</b>	Special find no: <b>1238</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.3cm x 0.85cm</b>	Context: <b>87sw</b> Weight: <b>0.92g</b>
Special find no: <b>1239</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>2.1cm x 0.65cm</b>	Context: <b>87sw</b> Weight: <b>1.03g</b>	Special find no: <b>1241</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.15cm x 0.6cm</b>	Context: <b>87sw</b> Weight: <b>0.76g</b>
Special find no: <b>1087</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>3.22cm x 2.2cm</b>	Context: <b>142se</b> Weight: <b>14.71g</b>	Special find no: <b>1088</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>3.9cm x 0.85cm</b>	Context: <b>142se</b> Weight: <b>11.22g</b>
Special find no: <b>1380</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>2.15cm x 1.01cm</b>	Context: <b>157se</b> Weight: <b>2.74g</b>	Special find no: <b>1404</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.55cm x 1.15cm</b>	Context: <b>175nw</b> Weight: <b>2.01g</b>
Special find no: <b>1385</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>2.66cm x 0.35cm</b>	Context: <b>190nw</b> Weight: <b>1.54g</b>	Special find no: <b>5380</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.93cm x 0.52cm</b>	Context: <b>600</b> Weight: <b>1.38g</b>
Special find no: <b>1557</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.9cm x 1cm</b>	Context: <b>253nw</b> Weight: <b>3.03g</b>	Special find no: <b>1781</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>2.8cm x 1.8cm</b>	Context: <b>269se</b> Weight: <b>2.52g</b>
Special find no: <b>1849</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>4.25cm x 1.4cm</b>	Context: <b>272se</b> Weight: <b>17.23g</b>	Special find no: <b>1628</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>2.24cm x 1.63cm</b>	Context: <b>273se</b> Weight: <b>9.23g</b>
Special find no: <b>6221</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.75cm x 0.5cm</b>	Context: <b>313sw</b> Weight: <b>1.7g</b>	Special find no: <b>6243</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.55cm x 0.52cm</b>	Context: <b>313sw</b> Weight: <b>1.37g</b>
Special find no: <b>5716</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>1.88cm x 0.43cm</b>	Context: <b>324ne</b> Weight: <b>5.36g</b>	Special find no: <b>5718</b> Stratigraphic phase: <b>XCV</b> Description: <b>Bead blank</b> Dimensions: <b>0.91cm x 0.75cm</b>	Context: <b>324ne</b> Weight: <b>1.25g</b>



Special find no: 2288 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.6cm x 1.7cm	Context: 325ne Weight: 3.31g	Special find no: 5776 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.89cm x 0.92cm	Context: 334ne Weight: 2.46g
Special find no: 8677 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 2.13cm x 1.22cm	Context: 334ne Weight: 2.46g	Special find no: 8678 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 0.76cm x 0.94cm	Context: 334ne Weight: 0.56g
Special find no: 2519 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 2.05cm x 0.85cm	Context: 344nw Weight: 2.25g	Special find no: 2592 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 3.78cm x 0.85cm	Context: 356nw Weight: 6.54g
Special find no: 1123 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 1cm x 0.72cm	Context: 73se Weight: 0.94g	Special find no: 2676 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.25cm x 0.73cm	Context: 73se Weight: 2.63g
Special find no: 8796 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.39cm x 0.92cm	Context: 73sw Weight: 1.52g	Special find no: 8797 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.01cm x 1.13cm	Context: 73sw Weight: 2.41g
Special find no: 6035 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.12cm x 1.08cm	Context: 364ne Weight: 2.24g	Special find no: 6038 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.17cm x 2.22cm	Context: 364ne Weight: 3.48g
Special find no: 6042 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 1.46cm x 1.73cm	Context: 364ne Weight: 1.31g	Special find no: 8684 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 1.14cm x 1.28cm	Context: 364ne Weight: 0.92g
Special find no: 2683 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 3.5cm x 0.8cm	Context: 365nw Weight: 9.99g	Special find no: 2881 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.4cm x 0.95cm	Context: 365nw Weight: 2.94g
Special find no: 2882 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.52cm x 1.15cm	Context: 365nw Weight: 1.77g	Special find no: 6046 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.71cm x 1.87cm	Context: 365nw Weight: 5.05g
Special find no: 5846 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 1.77cm x 0.8cm	Context: 365nw Weight: 2.66g	Special find no: 5847 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 1.49cm x 0.78cm	Context: 365nw Weight: 1.74g
Special find no: 5868 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 3.42cm x 1.29cm	Context: 365nw Weight: 9.55g	Special find no: 6009 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.93cm x 1.66cm	Context: 367sw Weight: 11.12g
Special find no: 8669 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 1.99cm x 1.43cm	Context: 367sw Weight: 1.84g	Special find no: 2740 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2cm x 0.9cm	Context: 371nw Weight: 3.38g
Special find no: 6008 Stratigraphic phase: XCII Description: <b>2 bead blanks</b>	Context: 364ne Weight: 3.09g	Special find no: 8674 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.47cm x 0.89cm	Context: 374nw Weight: 1.5g
Special find no: 1702 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 4.5cm x 1.8cm	Context: 304ne Weight: 33.49g	Special find no: 2041 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1cm x 0.5cm	Context: 304ne Weight: 0.47g
Special find no: 2051 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 3.36cm x 1.5cm	Context: 304ne Weight: 12.78g	Special find no: 2052 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 2.5cm x 1.05cm	Context: 304ne Weight: 5.89g
Special find no: 2054 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.6cm x 0.65cm	Context: 304ne Weight: 1.48g	Special find no: 5183 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.2cm x 0.36cm	Context: 304ne Weight: 1.87g

# Stone Objects

Special find no: <b>8668</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>1.72cm x 1.26cm</b>	Context: <b>304sw</b> Weight: <b>2.08g</b>	Special find no: <b>8490</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>2.87cm x 0.66cm</b>	Context: <b>305sw</b> Weight: <b>3.22g</b>
Special find no: <b>8491</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>1.75cm x 0.48cm</b>	Context: <b>305sw</b> Weight: <b>1.04g</b>	Special find no: <b>8492</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>1.15cm x 0.76cm</b>	Context: <b>305sw</b> Weight: <b>0.29g</b>
Special find no: <b>6030</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>1.82cm x 0.78cm</b>	Context: <b>306sw</b> Weight: <b>8g</b>	Special find no: <b>2132</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>1.6cm x 0.75cm</b>	Context: <b>307se</b> Weight: <b>1.5g</b>
Special find no: <b>1416</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>2.44cm x 0.52cm</b>	Context: <b>200sw</b> Weight: <b>3.33g</b>	Special find no: <b>2864</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>2.95cm x 1.1cm</b>	Context: <b>358se</b> Weight: <b>9.36g</b>
Special find no: <b>8672</b> Stratigraphic phase: <b>XCIII</b> Description: <b>Bead blank</b> Dimensions: <b>1.36cm x 1.26cm</b>	Context: <b>374nw</b> Weight: <b>1.92g</b>	Special find no: <b>8682</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>2.66cm x 2.15cm</b>	Context: <b>386nw</b> Weight: <b>7.36g</b>
Special find no: <b>8681</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>1.52cm x 1.49cm</b>	Context: <b>365se</b> Weight: <b>2.57g</b>	Special find no: <b>6258</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>3.7cm width</b>	Context: <b>386ne</b> Weight: <b>90.84g</b>
Special find no: <b>6325</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>3.17cm x 0.75cm</b>	Context: <b>399se/ne</b> Weight: <b>4.31g</b>	Special find no: <b>8675</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>1.27cm x 1.32cm</b>	Context: <b>399ne/se</b> Weight: <b>0.58g</b>
Special find no: <b>8683</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>2.79cm x 1.37cm</b>	Context: <b>399se</b> Weight: <b>4.63g</b>	Special find no: <b>8685</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>2.88cm x 1.15cm</b>	Context: <b>416ne</b> Weight: <b>3.07g</b>
Special find no: <b>8687</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>3.25cm x 3.35cm</b>	Context: <b>416ne</b> Weight: <b>20.1g</b>	Special find no: <b>8686</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>2.88cm x 2.66cm</b>	Context: <b>417sw</b> Weight: <b>10.87g</b>
Special find no: <b>6576</b> Stratigraphic phase: <b>XCI</b> Description: <b>Bead blank</b> Dimensions: <b>2.54cm x 1.2cm</b>	Context: <b>422sw</b> Weight: <b>6.04g</b>	Special find no: <b>15619</b> Stratigraphic phase: <b>LXXI</b> Description: <b>Bead blank</b> Dimensions: <b>1.77cm x 1.48cm</b>	Context: <b>607se</b> Weight: <b>2.54g</b>
Special find no: <b>10062</b> Stratigraphic phase: <b>LXXI</b> Description: <b>Bead blank</b> Dimensions: <b>7.03cm x 2.52cm</b>	Context: <b>607se</b> Weight: <b>54.47g</b>	Special find no: <b>15350</b> Stratigraphic phase: <b>LXXII</b> Description: <b>Bead blank</b> Dimensions: <b>3.07cm x 3.22cm</b>	Context: <b>602ne</b> Weight: <b>20.1g</b>
Special find no: <b>7204</b> Stratigraphic phase: <b>LXXV</b> Description: <b>Bead blank</b> Dimensions: <b>2.45cm x 0.91cm</b>	Context: <b>490sw</b> Weight: <b>5.44g</b>	Special find no: <b>7061</b> Stratigraphic phase: <b>LXXV</b> Description: <b>Bead blank</b> Dimensions: <b>0.32cm x 1.98cm</b>	Context: <b>494ne</b> Weight: <b>0.57g</b>
Special find no: <b>7154</b> Stratigraphic phase: <b>LXXV</b> Description: <b>Bead blank</b> Dimensions: <b>2.55cm x 0.93cm</b>	Context: <b>494ne</b> Weight: <b>4.05g</b>	Special find no: <b>15279</b> Stratigraphic phase: <b>LXXXIII</b> Description: <b>Bead blank</b> Dimensions: <b>1.35cm x 1.94cm</b>	Context: <b>605ne</b> Weight: <b>2.5g</b>
Special find no: <b>10125</b> Stratigraphic phase: <b>LXXXIII</b> Description: <b>Bead blank</b> Dimensions: <b>4.31cm x 3.37cm</b>	Context: <b>632nw</b> Weight: <b>42.21g</b>	Special find no: <b>6346</b> Stratigraphic phase: <b>LXXXVI</b> Description: <b>Bead blank</b> Dimensions: <b>0.86cm x 0.44cm</b>	Context: <b>390se</b> Weight: <b>0.64g</b>
Special find no: <b>6174</b> Stratigraphic phase: <b>LXXXVI</b> Description: <b>Bead blank</b> Dimensions: <b>4.5cm x 1.2cm</b>	Context: <b>376nw</b> Weight: <b>19.86g</b>	Special find no: <b>6723</b> Stratigraphic phase: <b>LXXXVII</b> Description: <b>Bead blank</b> Dimensions: <b>1.53cm x 1.4cm</b>	Context: <b>441ne</b> Weight: <b>2.06g</b>
Special find no: <b>2861</b> Stratigraphic phase: <b>LXXXVIII</b> Description: <b>Bead blank</b> Dimensions: <b>2.35cm x 1.88cm</b>	Context: <b>375nw</b> Weight: <b>6.41g</b>	Special find no: <b>16820</b> Stratigraphic phase: <b>XXVIII</b> Description: <b>Bead blank</b> Dimensions: <b>1.14cm x 2.48cm</b>	Context: <b>977se</b> Weight: <b>7.85g</b>

Special find no: 10619 Context: 1172se  
Stratigraphic phase: XXII Weight: 3.41g  
Description: **Bead blank**  
Dimensions: 0.97cm x 2.17cm

### 8.8.1.2 Bead debitage

Special find no: 1056 Context: 41sw  
Stratigraphic phase: C Weight: 0.39g  
Description: **Bead debitage**  
Dimensions: 0.9cm x 0.82cm

Special find no: 1064 Context: 41sw  
Stratigraphic phase: C Weight: 0.1g  
Description: **Bead debitage**  
Dimensions: 0.84cm x 0.48cm

Special find no: 1052 Context: 41sw  
Stratigraphic phase: C Weight: 0.29g  
Description: **Bead debitage**  
Dimensions: 0.8cm x 0.66cm

Special find no: 1386 Context: 59sw  
Stratigraphic phase: XCVI Weight: 2.25g  
Description: **Bead debitage**  
Dimensions: 1.8cm x 0.65cm

Special find no: 1195 Context: 25ne  
Stratigraphic phase: XCVII Weight: 0.23g  
Description: **Bead debitage**  
Dimensions: 0.96cm x 0.3cm

Special find no: 1246 Context: 76ne  
Stratigraphic phase: XCV Weight: 0.34g  
Description: **Bead debitage**  
Dimensions: 1.3cm x 0.54cm

Special find no: 1379 Context: 87nw  
Stratigraphic phase: XCV Weight: 1gm  
Description: **Bead debitage**  
Dimensions: 1.5cm x 0.5cm

Special find no: 1250 Context: 88ne  
Stratigraphic phase: XCV Weight: 0.37g  
Description: **Bead debitage**  
Dimensions: 1.1cm x 0.4cm

Special find no: 1383 Context: 113ne  
Stratigraphic phase: XCV Weight: 0.41g  
Description: **Bead debitage**  
Dimensions: 1.5cm x 0.3cm

Special find no: 1393 Context: 134ne  
Stratigraphic phase: XCV Weight: 2.09g  
Description: **Bead debitage**  
Dimensions: 1.7cm x 0.6cm

Special find no: 1507 Context: 253nw  
Stratigraphic phase: XCV Weight: 0.1g  
Description: **Bead debitage**  
Dimensions: 0.9cm x 0.3cm

Special find no: 1635 Context: 256se  
Stratigraphic phase: XCV Weight: 0.09g  
Description: **Bead debitage**  
Dimensions: 0.55cm x 0.35cm

Special find no: 1579 Context: 265se  
Stratigraphic phase: XCV Weight: 0.68g  
Description: **Bead debitage**  
Dimensions: 1.2cm x 0.46cm

Special find no: 1750 Context: 272se  
Stratigraphic phase: XCV Weight: 0.19g  
Description: **Bead debitage**  
Dimensions: 0.86cm length

Special find no: 1062 Context: 41sw  
Stratigraphic phase: C Weight: 0.27g  
Description: **Bead debitage**  
Dimensions: 1cm x 0.72cm

Special find no: 1270 Context: 41sw  
Stratigraphic phase: C Weight: 0.42g  
Description: **Bead debitage**  
Dimensions: 2cm x 0.2cm

Special find no: 1382 Context: 109nw  
Stratigraphic phase: CIII Weight: 1.5g  
Description: **Bead debitage**  
Dimensions: 1.72cm x 1.14cm

Special find no: 8070 Context: 25ne  
Stratigraphic phase: XCVII Weight: 2.41g  
Description: **Bead debitage**  
Dimensions: 1.83cm x 0.57cm  
[Fig. 8.3]

Special find no: 1378 Context: 25nw  
Stratigraphic phase: XCVII Weight: 2.98g  
Description: **Bead debitage**  
Dimensions: 2.25cm x 0.52cm

Special find no: 1402 Context: 108nw  
Stratigraphic phase: XCV Weight: 0.14g  
Description: **Bead debitage**  
Dimensions: 0.91cm x 0.25cm

Special find no: 1396 Context: 87sw  
Stratigraphic phase: XCV Weight: 2.44g  
Description: **Bead debitage**  
Dimensions: 3.9cm x 0.5cm

Special find no: 1399 Context: 107nw  
Stratigraphic phase: XCV Weight: 0.62g  
Description: **Bead debitage**  
Dimensions: 1.3cm x 0.35cm

Special find no: 1394 Context: 126se  
Stratigraphic phase: XCV Weight: 0.97g  
Description: **Bead debitage**  
Dimensions: 1.7cm x 0.6cm

Special find no: 667 Context: 190nw  
Stratigraphic phase: XCV Weight: 5.7g  
Description: **Bead debitage**  
Dimensions: 3.8cm x 0.6cm

Special find no: 1531 Context: 253nw  
Stratigraphic phase: XCV Weight: 0.06g  
Description: **Bead debitage**  
Dimensions: 0.55cm x 0.15cm

Special find no: 1969 Context: 261nw  
Stratigraphic phase: XCV Weight: 0.78g  
Description: **Bead debitage**  
Dimensions: 1.67cm x 0.5cm

Special find no: 1637 Context: 272se  
Stratigraphic phase: XCV Weight: 1.8g  
Description: **Bead debitage**  
Dimensions: 2cm x 0.74cm

Special find no: 1599 Context: 273se  
Stratigraphic phase: XCV Weight: 0.9g  
Description: **Bead debitage**  
Dimensions: 1.15cm x 0.63cm

# Stone Objects

Special find no: 6220 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.3cm x 0.4cm	Context: 313sw Weight: 0.53g	Special find no: 1784 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.55cm x 0.6cm	Context: 316ne Weight: 0.91g
Special find no: 1824 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1cm x 0.4cm	Context: 316ne Weight: 0.35g	Special find no: 1853 Stratigraphic phase: XCV Description: <b>3 chips of bead debitage</b> Dimensions: Chips	Context: 320ne Weight: 1.09g
Special find no: 1785 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.2cm x 0.14cm	Context: 322nw Weight: 0.2g	Special find no: 1863 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.4cm x 0.07cm	Context: 324ne Weight: 1.03g
Special find no: 1851 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.4cm x 0.35cm	Context: 326ne Weight: 0.78g	Special find no: 5777 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.75cm x 0.62cm	Context: 334ne Weight: 1.34g
Special find no: 5778 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.57cm x 0.41cm	Context: 334ne Weight: 0.84g	Special find no: 1939 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.79cm x 0.72cm	Context: 334ne Weight: 1.18g
Special find no: 2535 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.8cm x 0.35cm	Context: 344nw Weight: 0.4g	Special find no: 2505 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.9cm x 1.1cm	Context: 344nw Weight: 2.78g
Special find no: 1763 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.37cm x 2.25cm	Context: 289ne Weight: 5.25g	Special find no: 2817 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 0.73cm x 0.15cm	Context: 373nw Weight: 0.07g
Special find no: 1260 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.5cm x 0.45cm	Context: 600 Weight: 0.62g	Special find no: 15553 Stratigraphic phase: XCV Description: <b>Bead debitage</b> Dimensions: 1.14cm x 0.75cm	Context: 600 Weight: 0.55g
Special find no: 2454 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1.2cm x 0.38cm	Context: 364ne Weight: 0.47g	Special find no: 2859 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 2.7cm x 0.45cm	Context: 364ne Weight: 2.84g
Special find no: 2718 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1.1cm x 0.5cm	Context: 365nw Weight: 0.49g	Special find no: 5050 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 2.1cm x 0.05cm	Context: 365nw Weight: 2.24g
Special find no: 5051 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 2.1cm x 0.3cm	Context: 365nw Weight: 0.68g	Special find no: 5052 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 3cm x 0.2cm	Context: 365nw Weight: 1.71g
Special find no: 5053 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1cm x 0.55cm	Context: 365nw Weight: 0.51g	Special find no: 5054 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 0.6cm x 0.5cm	Context: 365nw Weight: 0.2g
Special find no: 6065 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1.15cm x 0.38cm	Context: 365nw Weight: 0.58g	Special find no: 5658 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 0.74cm x 0.53cm	Context: 365nw Weight: 0.35g
Special find no: 5845 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1.61cm x 0.6cm	Context: 365nw Weight: 1.9g	Special find no: 8680 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 0.69cm x 0.89cm	Context: 366sw Weight: 0.55g
Special find no: 5758 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1.36cm x 0.54cm	Context: 367sw Weight: 0.78g	Special find no: 5759 Stratigraphic phase: XCII Description: <b>Bead debitage</b> Dimensions: 1.27cm x 0.54cm	Context: 367sw Weight: 0.82g
Special find no: 2053 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 2.3cm x 0.43cm	Context: 304ne Weight: 1.3g	Special find no: 2756 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.54cm length	Context: 363ne Weight: 0.13g

Special find no: 2055 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.7cm x 0.28cm	Context: 304ne Weight: 0.06g	Special find no: 2056 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.85cm x 0.17cm	Context: 304ne Weight: 0.08g
Special find no: 5901 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 1.24cm x 0.32cm	Context: 304ne Weight: 0.47g	Special find no: 5902 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 1cm x 0.2cm	Context: 304ne Weight: 0.12g
Special find no: 2107 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 2.2cm x 0.64cm	Context: 306se Weight: 1.44g	Special find no: 2108 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 1.1cm x 0.12cm	Context: 306se Weight: 0.16g
Special find no: 2109 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.8cm x 0.3cm	Context: 306se Weight: 0.15g	Special find no: 2110 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.9cm x 0.25cm	Context: 306se Weight: 0.09g
Special find no: 2111 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.94cm x 0.36cm	Context: 306se Weight: 0.24g	Special find no: 2515 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.9cm x 0.37cm	Context: 306sw Weight: 0.29g
Special find no: 6074 Stratigraphic phase: XCIII Description: <b>Bead debitage</b> Dimensions: 0.84cm x 0.74cm	Context: 345sw Weight: 0.23g	Special find no: 6463 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 2.31cm x 0.53cm	Context: 416ne Weight: 1.75g
Special find no: 5316 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.2cm x 0.31cm	Context: 386g Weight: 0.8g	Special find no: 6252 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.4cm x 0.45cm	Context: 386ne Weight: 0.52g
Special find no: 6278 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.9cm x 0.25cm	Context: 386nw Weight: 1.09g	Special find no: 6286 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.65cm x 0.45cm	Context: 386nw Weight: 1.84g
Special find no: 6300 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.7cm x 0.75cm	Context: 386nw Weight: 1.39g	Special find no: 5824 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 0.9cm x 0.44cm	Context: 400se Weight: 0.38g
Special find no: 6399 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 1.1cm x 0.6cm	Context: 404ne Weight: 0.6g	Special find no: 5332 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 2.1cm x 0.25cm	Context: 415se Weight: 0.56g
Special find no: 6430 Stratigraphic phase: XCI Description: <b>Bead debitage</b> Dimensions: 2.8cm x 0.7cm	Context: 415se Weight: 3.76g	Special find no: 15859 Stratigraphic phase: LXIV Description: <b>Bead debitage</b> Dimensions: 1.07cm x 1.28cm	Context: 697nw Weight: 0.83g
Special find no: 15860 Stratigraphic phase: LXIV Description: <b>Bead debitage</b> Dimensions: 2.16cm x 1.65cm	Context: 697nw Weight: 2.89g	Special find no: 16037 Stratigraphic phase: LXVI Description: <b>Bead debitage</b> Dimensions: 1.37cm x 0.28cm	Context: 663nw Weight: 0.55g
Special find no: 15461 Stratigraphic phase: LXXVIII Description: <b>Bead debitage</b> Dimensions: 1.72cm x 2.68cm	Context: 615nw Weight: 2.11g	Special find no: 15620 Stratigraphic phase: LXXI Description: <b>Bead debitage</b> Dimensions: 1.24cm x 1.05cm	Context: 607se Weight: 0.68g
Special find no: 15377 Stratigraphic phase: LXXII Description: <b>Bead debitage</b> Dimensions: 1.02cm x 0.93cm	Context: 601ne Weight: 0.72g	Special find no: 10155 Stratigraphic phase: LXXIII Description: <b>Bead debitage</b> Dimensions: 2.06cm x 1.23cm	Context: 635nw Weight: 1.26g
Special find no: 8092 Stratigraphic phase: LXXV Description: <b>Bead debitage</b> Dimensions: 2.1cm x 0.3cm	Context: 490sw Weight: 0.9g	Special find no: 8083 Stratigraphic phase: LXXV Description: <b>Bead debitage</b> Dimensions: 1.52cm x 0.33cm	Context: 494ne Weight: 0.26g
Special find no: 6807 Stratigraphic phase: LXXXI Description: <b>Bead debitage</b> Dimensions: 1.48cm x 0.43cm	Context: 470nw Weight: 1.02g	Special find no: 6900 Stratigraphic phase: LXXXI Description: <b>Bead debitage</b> Dimensions: 2.14cm x 0.52cm	Context: 487ne Weight: 1.56g

## Stone Objects

Special find no: **6929**  
Stratigraphic phase: **LXXXI**  
Description: **Bead debitage**  
Dimensions: **1.54cm x 0.61cm**

Context: **487ne**  
Weight: **1.09g**

Special find no: **8017**  
Stratigraphic phase: **LXXXI**  
Description: **Bead debitage**  
Dimensions: **0.33cm x 1.62cm**

Context: **487ne**  
Weight: **0.56g**

Special find no: **2887**  
Stratigraphic phase: **LXXXVI**  
Description: **Bead debitage**  
Dimensions: **1.67cm x 0.44cm**

Context: **376nw**  
Weight: **1.03g**

Special find no: **17413**  
Stratigraphic phase: **XVI**  
Description: **Bead debitage**  
Dimensions: **0.47cm x 1.42cm**

Context: **1293ne**  
Weight: **0.7g**

Special find no: **10620**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.29cm x 2.44cm**

Context: **1172se**  
Weight: **2.47g**

Special find no: **17287**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.28cm x 1.08cm**

Context: **1172se**  
Weight: **0.29g**

Special find no: **17282**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.64cm x 0.87cm**

Context: **1125ne**  
Weight: **0.4g**

Special find no: **17284**  
Stratigraphic phase: **XXII**  
Description: **Bead debitage**  
Dimensions: **0.63cm x 2.6cm**

Context: **1125se**  
Weight: **3.62g**

Special find no: **10602**  
Stratigraphic phase: **XXIV**  
Description: **Bead debitage**  
Dimensions: **0.45cm x 1.4cm**

Context: **1153nw**  
Weight: **0.81g**

Special find no: **17289**  
Stratigraphic phase: **XXVI**  
Description: **Bead debitage**  
Dimensions: **0.26cm x 1.84cm**

Context: **1101nw**  
Weight: **0.85g**

Special find no: **16996**  
Stratigraphic phase: **XXVIII**  
Description: **Bead debitage**  
Dimensions: **0.59cm x 1.29cm**

Context: **977ne**  
Weight: **0.95g**

Special find no: **10433**  
Stratigraphic phase: **XXX**  
Description: **Bead debitage**  
Dimensions: **1.64cm x 0.42cm**

Context: **961se**  
Weight: **0.55g**

Special find no: **10409**  
Stratigraphic phase: **XXX**  
Description: **Bead debitage**  
Dimensions: **1.69cm x 1.17cm**

Context: **961se**  
Weight: **2.41g**

Special find no: **10387**  
Stratigraphic phase: **XXXI**  
Description: **Bead debitage**  
Dimensions: **2.24cm x 2.08cm**

Context: **974se**  
Weight: **7.36g**

Special find no: **10347**  
Stratigraphic phase: **XXXI**  
Description: **Bead debitage**  
Dimensions: **0.54cm x 0.37cm**

Context: **926sw**  
Weight: **0.21g**

Special find no: **10381**  
Stratigraphic phase: **XXXI**  
Description: **Bead debitage**  
Dimensions: **1.77cm x 0.45cm**

Context: **973sw**  
Weight: **1.34g**

Special find no: **10395**  
Stratigraphic phase: **XXXI**  
Description: **Bead debitage**  
Dimensions: **2.08cm x 1.37cm**

Context: **1081nw**  
Weight: **1.94g**

Special find no: **10303**  
Stratigraphic phase: **XXXIX**  
Description: **Bead debitage**  
Dimensions: **1.89cm x 0.45cm**

Context: **831ne**  
Weight: **1.04g**

Special find no: **17370**  
Stratigraphic phase: **XVIII**  
Description: **Bead debitage**  
Dimensions: **0.48cm x 2.02cm**

Context: **1175se**  
Weight: **1.48g**

Special find no: **10613**  
Stratigraphic phase: **XVIII**  
Description: **Bead debitage**  
Dimensions: **1.08cm x 0.93cm**

Context: **1175sw**  
Weight: **0.55g**

Special find no: **2624**  
Stratigraphic phase:  
Description: **Bead debitage**  
Dimensions: **0.8cm x 0.2cm**

Context: **Unstratified**  
Weight: **0.12g**

### 8.8.1.3 Intaglio or ring blank

Special find no: **792**  
Stratigraphic phase: **XCV**  
Description: **Intaglio or ring blank**  
Dimensions: **4cm x 0.3cm**  
[Plate 8.4; Fig. 8.2]

Context: **87sw**  
Weight: **0.95g**

Special find no: **1249**  
Stratigraphic phase: **XCV**  
Description: **Intaglio blank**  
Dimensions: **1.4cm x 0.36cm**

Context: **88ne**  
Weight: **0.9g**

### 8.8.1.4 Ring blank

Special find no: **2149**  
Stratigraphic phase: **XCV**  
Description: **Ring blank**  
Dimensions: **2.1 cm**  
[Plate 8.5; Fig. 8.2]

Context: **301ne**  
Weight: **1.85g**

### 8.8.1.5 Spherical disc

Special find no: **2507**  
Stratigraphic phase: **XCV**

Context: **344nw**  
Weight: **0.07g**

Description: **Spherical disc**  
Dimensions: **0.33cm x 0.4cm**

### **8.8.1.6 Disc**

Special find no: **15555** Context: **600**  
Stratigraphic phase: **XCV** Weight: **0.16g**  
Description: **Disc**  
Dimensions: **0.71cm x 0.56cm**

### **8.8.1.7 Oval bead**

Special find no: **1565** Context: **262se**  
Stratigraphic phase: **XCV** Weight: **2.07g**  
Description: **Oval bead, partially drilled**  
Dimensions: **1.57cm x 1cm**  
[Plate 8.5; Figs 8.2 and 8.3]

Special find no: **7045** Context: **429se**  
Stratigraphic phase: **XCV** Weight: **0.72g**  
Description: **Oval bead**  
Dimensions: **0.74cm x 0.63cm**

Special find no: **2502** Context: **306sw**  
Stratigraphic phase: **XCIII** Weight: **4.42g**  
Description: **Oval bead**  
Dimensions: **1.84cm x 1.37cm**  
[Fig. 8.2]

### **8.8.1.8 Bangle**

Special find no: **1613** Context: **271se**  
Stratigraphic phase: **XCV** Weight: **1.5g**  
Description: **Bangle**  
Dimensions: **0.4cm length**

### **8.8.1.9 Stupa base**

Special find no: **1609** Context: **271se**  
Stratigraphic phase: **XCV** Weight: **3.5g**  
Description: **Stupa base?**  
Dimensions: **2.2cm x 2.3cm**  
[Plate 8.6; Fig. 8.2]

### **8.8.1.10 Quartz crystal**

Special find no: **10523** Context: **364ne**  
Stratigraphic phase: **XCII** Weight: **5.85g**  
Description: **Quartz nodule**  
Dimensions: **2.1cm x 1.34cm**  
[Plate 8.6; Fig. 8.3]

### **8.8.1.11 Shaped bead or ring blanks**

Special find no: **15545** Context: **600**  
Stratigraphic phase: **XCV** Weight: **3.17g**  
Description: **Shaped blank**  
Dimensions: **1.32cm x 1.29cm**

Special find no: **2933** Context: **304ne**  
Stratigraphic phase: **XCIII** Weight: **28.1g**  
Description: **Shaped blank**  
Dimensions: **4.25cm x 1.25cm**

Special find no: **5284** Context: **376nw**  
Stratigraphic phase: **LXXXVI** Weight: **3.73g**  
Description: **Shaped blank**  
Dimensions: **1.25cm x 1.26cm**  
[Plate 8.7; Fig. 8.2]

### **8.8.1.12 Undiagnostic**

Special find no: **6058** Context: **306sw**  
Stratigraphic phase: **XCIII** Weight: **64.24g**  
Description: **Undiagnostic**  
Dimensions: **7.32cm x 2.45cm**

### 8.8.1.13 Oval spacer

Special find no: **6136** Context: **383ne**  
 Stratigraphic phase: **LXXXIX** Weight: **1.37g**  
 Description: **Oval spacer**  
 Dimensions: **2.27cm x 0.55cm**

### 8.8.1.14 Rings

Special find no: **6519** Context: **409nw**  
 Stratigraphic phase: **LXXXVIII** Weight: **1.25g**  
 Description: **Ring**  
 Dimensions: **3cm x 0.45cm**  
 [Fig. 8.2]

Special find no: **8118** Context: **494ne**  
 Stratigraphic phase: **LXXV** Weight: **1.35g**  
 Description: **Ring**  
 Dimensions: **2cm x 0.39cm**

Special find no: **16158** Context: **707ne**  
 Stratigraphic phase: **LIV** Weight: **0.35g**  
 Description: **Ring**  
 Dimensions: **0.38cm x 0.29cm**

### 8.8.1.15 Squashed sphere

Special find no: **8120** Context: **490rw**  
 Stratigraphic phase: **LXXV** Weight: **0.78g**  
 Description: **Squashed sphere**  
 Dimensions: **1.01cm x 0.56cm**

### 8.8.1.16 Hexagonal and tube bead

Special find no: **8211** Context: **511ne**  
 Stratigraphic phase: **LXXVI** Weight: **0.65g**  
 Description: **Hexagonal and tube bead**  
 Dimensions: **0.93cm x 0.51cm**

Special find no: **16998** Context: **977se**  
 Stratigraphic phase: **XXVIII** Weight: **3.14g**  
 Description: **Hexagonal and tube bead**  
 Dimensions: **3.12cm x 0.68cm**

Special find no: **10653** Context: **1292se**  
 Stratigraphic phase: **XIX** Weight: **1.53g**  
 Description: **Hexagonal and tube bead**  
 Dimensions: **1.6cm x 0.7cm**

### 8.8.1.17 Faceted pendant

Special find no: **6682** Context: **416ne**  
 Stratigraphic phase: **XCI** Weight: **1.3g**  
 Description: **Faceted pendant**  
 Dimensions: **1.7cm x 0.9cm**  
 [Plate 1.4]

## 8.8.2 Smoky quartz

A total of 83 smoky quartz objects have been found ranging from period J to B, thus dating from c. 510 cal. BC to AD 1100. The highest frequency is in period F with 26 objects, which also has the widest variety of

objects incorporating blank, spherical disc, sphere, shaped blank and oval beads, jewellery insert, natural pebbles and debitage. This demonstrates that bead production activity was prominent during this period.

### 8.8.2.1 Bead blanks

Special find no: **1574** Context: **262se**  
 Stratigraphic phase: **XCV** Weight: **10.03g**  
 Description: **Bead blank**  
 Dimensions: **3.3cm x 1cm**

Special find no: **2285** Context: **316ne**  
 Stratigraphic phase: **XCV** Weight: **14.15g**  
 Description: **Bead blank**  
 Dimensions: **3.75cm x 1.4cm**

Special find no: **2365** Context: **300se**  
 Stratigraphic phase: **XCV** Weight: **155.75g**  
 Description: **Bead blank**  
 Dimensions: **9cm x 2.8cm**

Special find no: **1691** Context: **301ne**  
 Stratigraphic phase: **XCV** Weight: **6.13g**  
 Description: **Bead blank**  
 Dimensions: **2.25cm x 1.35cm**

Special find no: **1778** Context: **301ne**  
 Stratigraphic phase: **XCV** Weight: **0.94g**  
 Description: **Bead blank**  
 Dimensions: **1.2cm x 0.68cm**

Special find no: **1692** Context: **303ne**  
 Stratigraphic phase: **XCV** Weight: **0.88g**  
 Description: **Bead blank**  
 Dimensions: **0.8cm x 0.7cm**



Special find no: 2442 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.85cm x 0.85cm	Context: 320ne Weight: 2.14g	Special find no: 8069 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 3.74cm x 2.77cm	Context: 324ne Weight: 30.93g
Special find no: 6333 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 2.31cm x 0.89cm	Context: 394sw Weight: 3.16g	Special find no: 6352 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 3.47cm x 2.68cm	Context: 401sw Weight: 23.3g
Special find no: 6327 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 4.2cm x 1.5cm	Context: 600 Weight: 19.59g	Special find no: 5329 Stratigraphic phase: XCV Description: <b>Bead blank</b> Dimensions: 1.76cm x 0.56cm	Context: 600 Weight: 2.25g
Special find no: 2883 Stratigraphic phase: XCII Description: <b>Bead blank</b> Dimensions: 2.15cm x 1cm	Context: 365nw Weight: 3.51g	Special find no: 2356 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 2.5cm x 1.1cm	Context: 73se Weight: 6.37g
Special find no: 2103 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.1cm x 0.73cm	Context: 306se Weight: 1.13g	Special find no: 2757 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 3.64cm length	Context: 363ne Weight: 20.56g
Special find no: 2042 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 0.5cm x 0.45cm	Context: 304ne Weight: 0.15g	Special find no: 2046 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.4cm x 0.7cm	Context: 304ne Weight: 1.56g
Special find no: 2047 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.3cm x 0.6cm	Context: 304ne Weight: 0.94g	Special find no: 2048 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1cm x 0.4cm	Context: 304ne Weight: 0.54g
Special find no: 2049 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1cm x 0.6cm	Context: 304ne Weight: 0.54g	Special find no: 2050 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 1.16cm x 0.5cm	Context: 304ne Weight: 0.38g
Special find no: 6101 Stratigraphic phase: XCIII Description: <b>Bead blank</b> Dimensions: 2.88cm x 0.41cm	Context: 378se Weight: 3.68g	Special find no: 6276 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 5cm x 2cm	Context: 386nw Weight: 27.98g
Special find no: 6348 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 2.01cm x 0.85cm	Context: 403nw Weight: 5.07g	Special find no: 5330 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 1.84cm x 0.65cm	Context: 403nw Weight: 1.33g
Special find no: 5754 Stratigraphic phase: XCI Description: <b>Bead blank</b> Dimensions: 2.34cm x 0.68cm	Context: 416ne Weight: 4.34g	Special find no: 8202 Stratigraphic phase: LXXV Description: <b>Bead blank</b> Dimensions: 3.86cm x 0.7cm	Context: 490sw Weight: 7.87g
Special find no: 8205 Stratigraphic phase: LXXV Description: <b>Bead blank</b> Dimensions: 1.84cm x 1.58cm	Context: 490sw Weight: 6.19g	Special find no: 6779 Stratigraphic phase: LXXXVI Description: <b>Bead blank</b> Dimensions: 2.36cm x 1.25cm	Context: 457sw Weight: 5.57g
Special find no: 5258 Stratigraphic phase: LXXXVI Description: <b>Bead blank</b> Dimensions: 2.01cm x 1.05cm	Context: 376se Weight: 5.4g	Special find no: 6211 Stratigraphic phase: LXXXVI Description: <b>Bead blank</b> Dimensions: 0.86cm x 1.04cm	Context: 376nw Weight: 2.97g
Special find no: 6736 Stratigraphic phase: LXXXVII Description: <b>Bead blank</b> Dimensions: 2.47cm x 1.09cm	Context: 442se Weight: 9.97g	Special find no: 16041 Stratigraphic phase: LX Description: <b>Bead blank</b> Dimensions: 1.84cm x 1.46cm	Context: 767se Weight: 4.66g
Special find no: 10434 Stratigraphic phase: XXX Description: <b>Bead blank</b> Dimensions: 3.83cm x 1.78cm	Context: 961sw Weight: 17.56g	Special find no: 1712 Stratigraphic phase: Description: <b>Bead blank</b> Dimensions: 7cm x 2.7cm	Context: Unstratified Weight: 89.79g

8.8.2.2 *Bead debitage*

Special find no: 5709  
Stratigraphic phase: XCV  
Description: **Bead debitage**  
Dimensions: 1cm x 0.36cm

Context: 356nw  
Weight: 0.39g

Special find no: 5838  
Stratigraphic phase: XCIII  
Description: **Bead debitage**  
Dimensions: 1.12cm x 0.57cm

Context: 358se  
Weight: 0.09g

Special find no: 1706  
Stratigraphic phase: XCIII  
Description: **Bead debitage**  
Dimensions: 1.3cm x 0.5cm

Context: 304ne  
Weight: 0.68g

Special find no: 2105  
Stratigraphic phase: XCIII  
Description: **Bead debitage**  
Dimensions: 0.5cm x 0.33cm

Context: 306se  
Weight: 0.09g

Special find no: 15325  
Stratigraphic phase: LXXII  
Description: **Bead debitage**  
Dimensions: 3.47cm x 2.38cm

Context: 601ne  
Weight: 7.55g

Special find no: 1938  
Stratigraphic phase: LXXXVII  
Description: **Bead debitage**  
Dimensions: 1.23cm x 0.85cm

Context: 340se  
Weight: 1.06g

Special find no: 10288  
Stratigraphic phase: LX  
Description: **Bead debitage**  
Dimensions: 2.75cm x 0.78cm

Context: 767ne  
Weight: 3.71g

Special find no: 17511  
Stratigraphic phase: XXIII  
Description: **Bead debitage**  
Dimensions: 0.49cm x 1.95cm

Context: 1125se  
Weight: 1.99g

Special find no: 17348  
Stratigraphic phase: XVIII  
Description: **Bead debitage**  
Dimensions: 1.02cm x 2.24cm

Context: 1175se  
Weight: 3.35g

Special find no: 17285  
Stratigraphic phase: XIX  
Description: **Bead debitage**  
Dimensions: 0.79cm x 1.69cm

Context: 1292se  
Weight: 1.8g

Special find no: 17496  
Stratigraphic phase: XIV  
Description: **Bead debitage**  
Dimensions: 1.05cm x 2.2cm

Context: 1407sw  
Weight: 4.79g

Special find no: 5661  
Stratigraphic phase: XCII  
Description: **Bead debitage**  
Dimensions: 0.78cm x 0.41cm

Context: 365nw  
Weight: 0.28g

Special find no: 3546  
Stratigraphic phase: XCIII  
Description: **Bead debitage**  
Dimensions: 0.96cm x 0.38cm

Context: 370se  
Weight: 0.23g

Special find no: 2104  
Stratigraphic phase: XCIII  
Description: **Bead debitage**  
Dimensions: 1.26cm x 0.4cm

Context: 306se  
Weight: 0.52g

Special find no: 6449  
Stratigraphic phase: XCI  
Description: **Bead debitage**  
Dimensions: 2.04cm x 0.48cm

Context: 414sw  
Weight: 0.98g

Special find no: 6975  
Stratigraphic phase: LXXXI  
Description: **Bead debitage**  
Dimensions: 0.25cm x 0.55cm

Context: 470sw  
Weight: 2.56g

Special find no: 6738  
Stratigraphic phase: LXXXVII  
Description: **Bead debitage**  
Dimensions: 0.81cm x 0.35cm

Context: 442se  
Weight: 0.21g

Special find no: 17510  
Stratigraphic phase: XXIII  
Description: **Bead debitage**  
Dimensions: 0.45cm x 2.34cm

Context: 1125se  
Weight: 2.44g

Special find no: 17302  
Stratigraphic phase: XXIV  
Description: **Bead debitage**  
Dimensions: 0.75cm x 2.2cm

Context: 1153nw  
Weight: 2.6g

Special find no: 17288  
Stratigraphic phase: XIX  
Description: **Bead debitage**  
Dimensions: 0.63cm x 1.49cm

Context: 1216sw  
Weight: 1.15g

Special find no: 17286  
Stratigraphic phase: XIX  
Description: **Bead debitage**  
Dimensions: 0.2cm x 1.1cm

Context: 1292se  
Weight: 0.09g

8.8.2.3 *Spherical disc*

Special find no: 2789  
Stratigraphic phase: XCV  
Description: **Spherical disc**  
Dimensions: 0.24cm x 0.57cm

Context: 296ne  
Weight: 0.11g

Special find no: 2798  
Stratigraphic phase: XCIII  
Description: **Spherical disc**  
Dimensions: 0.36cm x 0.52cm  
[Fig. 8.2]

Context: 369se  
Weight: 0.11g

8.8.2.4 *Sphere*

Special find no: 2951  
Stratigraphic phase: XCIII  
Description: **Sphere**  
Dimensions: 1.6cm x 1.75cm

Context: 304ne  
Weight: 7.21g

### 8.8.2.5 Shaped bead and ring blanks

Special find no: 2799 Context: 373ne  
Stratigraphic phase: XCV Weight: 3.3g  
Description: **Shaped bead blank**  
Dimensions: 1.32cm length  
[Fig. 8.2]

Special find no: 8128 Context: 467nw  
Stratigraphic phase: LXXXI Weight: 0.48g  
Description: **Shaped bead blank**  
Dimensions: 0.88cm x 0.41cm  
[Fig. 8.2]

Special find no: 5025 Context: 304nw  
Stratigraphic phase: XCIII Weight: 11.15g  
Description: **Shaped ring blank**  
Dimensions: 2.8cm x 1.85cm  
[Fig. 8.2]

Special find no: 7199 Context: 493sw  
Stratigraphic phase: LXXV Weight: 2.35g  
Description: **Shaped bead blank**  
Dimensions: 1.94cm x 0.9cm

### 8.8.2.6 Oval bead

Special find no: 2934 Context: 304ne  
Stratigraphic phase: XCIII Weight: 3.26g  
Description: **Oval bead**  
Dimensions: 1.85cm x 1.25cm

### 8.8.2.7 Jewellery insert

Special find no: 2106 Context: 306se  
Stratigraphic phase: XCIII Weight: 0.29g  
Description: **Jewellery insert**  
Dimensions: 0.7cm x 0.46cm

### 8.8.2.8 Collared barrel

Special find no: 6361 Context: 406sw  
Stratigraphic phase: XCI Weight: 0.97g  
Description: **Collared barrel**  
Dimensions: 1.62cm x 0.68cm

### 8.8.2.9 Hexagonal and tube bead

Special find no: 16291 Context: 811ne  
Stratigraphic phase: XLIV Weight: 3.04g  
Description: **Hexagonal and tube bead**  
Dimensions: 2.87cm x 0.79cm  
[Fig. 8.2]

### 8.8.2.10 Natural pebbles

Special find no: 8068 Context: 9ne  
Stratigraphic phase: CVI Weight: 15g  
Description: 1 natural pebble

Special find no: 8066 Context: 25ne  
Stratigraphic phase: XCVII Weight: 45g  
Description: 3 natural pebbles

Special find no: 8054 Context: 320ne  
Stratigraphic phase: XCV Weight: 185g  
Description: 3 pieces of natural pebble

Special find no: 8056 Context: 368nw  
Stratigraphic phase: XCV Weight: 10g  
Description: 1 natural pebble

Special find no: 8062 Context: 256se  
Stratigraphic phase: XCV Weight: 0.88g  
Description: 1 natural pebble

Special find no: 8064 Context: 301ne  
Stratigraphic phase: XCV Weight: 15g  
Description: 1 natural pebble

Special find no: 8067 Context: 367sw  
Stratigraphic phase: XCII Weight: 10g  
Description: 1 natural pebble

Special find no: 8061 Context: 4ne  
Stratigraphic phase: CXIV Weight: 130g  
Description: 6 natural pebbles

Special find no: 8060 Context: 292ne  
Stratigraphic phase: XCV Weight: 10g  
Description: 1 natural pebble

Special find no: 8055 Context: 316ne  
Stratigraphic phase: XCV Weight: 60g  
Description: 5 pieces of natural pebble

Special find no: 8058 Context: 313sw  
Stratigraphic phase: XCV Weight: 15g  
Description: 1 natural pebble

Special find no: 8063 Context: 320  
Stratigraphic phase: XCV Weight: 2.14g  
Description: 1 natural pebble

Special find no: 8065 Context: 367sw  
Stratigraphic phase: XCII Weight: 10g  
Description: 1 natural pebble

Special find no: 8057 Context: 304ne  
Stratigraphic phase: XCIII Weight: 10g  
Description: 1 natural pebble

Special find no: **8059** Context: **307**  
Stratigraphic phase: **XCIII** Weight: **10g**  
Description: **1 natural pebble**

### 8.9 Crystalline limestone

Limestone is a sedimentary rock consisting of carbonates, particularly calcite and dolomite (Whitten and Brooks 1972: 267). While sedimentary limestone occurs naturally in Sri Lanka, especially on the Jaffna Peninsula and the northwest coast (Cooray 1984: 230), crystalline limestones are frequently found within

Precambrian outcrops close to Anuradhapura. Limestone beads have been found at Taxila in Pakistan and a limestone object has been discovered at Satanikota in Andhra Pradesh (Lahiri 1992: 274, 354). Trench ASW2 has yielded eleven pieces of limestone.

#### 8.9.1 Bead blanks

Special find no: **5993** Context: **283ne**  
Stratigraphic phase: **XCV** Weight: **0.28g**  
Description: **Bead blank**  
Dimensions: **0.5cm x 0.77cm**

Special find no: **8001** Context: **358se**  
Stratigraphic phase: **XCIII** Weight: **0.29g**  
Description: **Bead blank**  
Dimensions: **0.62cm x 0.76cm**

Special find no: **8667** Context: **304sw**  
Stratigraphic phase: **XCIII** Weight: **4.92g**  
Description: **Bead blank**  
Dimensions: **1.52cm x 1.03cm**

Special find no: **5991** Context: **369se**  
Stratigraphic phase: **XCIII** Weight: **0.67g**  
Description: **Bead blank**  
Dimensions: **0.73cm x 1.16cm**

#### 8.9.2 Shaped blank

Special find no: **5999** Context: **358se**  
Stratigraphic phase: **XCIII** Weight: **0.4g**  
Description: **Shaped blank**  
Dimensions: **0.58cm x 0.62cm**

#### 8.9.3 Collared sphere

Special find no: **2228** Context: **370sw**  
Stratigraphic phase: **XCIII** Weight: **1.3g**  
Description: **Collared sphere bead**  
Dimensions: **1.2cm x 1.35cm**

Special find no: **2232** Context: **370sw**  
Stratigraphic phase: **XCIII** Weight: **1.52g**  
Description: **Collared sphere bead**  
Dimensions: **1cm x 1.27cm**

Special find no: **2231** Context: **370sw**  
Stratigraphic phase: **XCIII** Weight: **1.74g**  
Description: **Collared sphere bead**  
Dimensions: **1.53cm x 1.4cm**

#### 8.9.4 Squashed collar bead

Special find no: **6369** Context: **399se**  
Stratigraphic phase: **XCI** Weight: **0.65g**  
Description: **Squashed collar bead**  
Dimensions: **0.89cm x 0.5cm**

#### 8.9.5 Squashed sphere bead

Special find no: **6485** Context: **414sw**  
Stratigraphic phase: **XCI** Weight: **1.41g**  
Description: **Squashed sphere bead**  
Dimensions: **1.15cm x 0.7cm**

#### 8.9.6 Unidentified fragment

Special find no: **900** Context: **100ne**  
Stratigraphic phase: **XCV** Weight: **1gm**  
Description: **1 piece of Marble**  
Dimensions: **1cm x 1cm**

## 8.10 Soapstone

Soapstone is a form of talc rock and occurs in low or medium-grade metamorphosed basic or ultrabasic rocks (Whitten and Brooks 1972: 440). Soapstone is found in

Andhra Pradesh and Tamil Nadu (Lahiri 1992: 189, 366). Five pieces of soapstone have been found from period G, which dates from c. 200 BC to AD 130.

Special find no: 6532 Context: 417nw  
Stratigraphic phase: XCI Weight: 23.22g  
Description: 1 piece of soapstone

Special find no: 8656 Context: 469se  
Stratigraphic phase: LXXXI Weight: 68.36g  
Description: 1 piece of soapstone

Special find no: 6198 Context: 376nw  
Stratigraphic phase: LXXXVI Weight: 40.09g  
Description: 1 piece of soapstone

Special find no: 7161 Context: 495sw  
Stratigraphic phase: LXXX Weight: 78.1g  
Description: 6 pieces of soapstone

Special find no: 6405 Context: 390se  
Stratigraphic phase: LXXXVI Weight: 57.67g  
Description: 1 piece of soapstone

## 8.11 Coral

Corals are marine organisms associated with reef building (Whitten and Brooks 1972: 381). Coral reefs are present off the coast of Sri Lanka at Colombo, Mount Lavinia and Hikkaduwa (Cooray 1984: 163). Coral debris is also present inland, washed up by storm waves,

such as at Foul Point, Trincomalee (ibid.: 164). Seven pieces of coral have been recovered from periods D to G, a date range of c. 200 BC to AD 1100, with the majority occurring in period G. Finds of coral are usually associated with lime-making (ibid.: 230).

Special find no: 8466 Context: 324ne  
Stratigraphic phase: XCV Weight: 61g  
Description: 1 piece of coral

Special find no: 8434 Context: 492se  
Stratigraphic phase: LXXV Weight: 7.58g  
Description: 1 piece of coral

Special find no: 6947 Context: 487ne  
Stratigraphic phase: LXXXI Weight: 20.06g  
Description: 1 piece of coral

Special find no: 5939 Context: 399ne  
Stratigraphic phase: XCI Weight: 72.97g  
Description: 2 pieces of coral

Special find no: 2059 Context: 304ne  
Stratigraphic phase: XCIII Weight: 30.18g  
Description: 1 piece of coral

Special find no: 8479 Context: 494ne  
Stratigraphic phase: LXXV Weight: 2.16g  
Description: 4 pieces of coral

Special find no: 6927 Context: 487ne  
Stratigraphic phase: LXXXI Weight: 15.6g  
Description: 1 piece of coral

## 8.12 Quartzite

This rock is metamorphosed sandstone, whereby the grains recrystallize into an interlocked mosaic texture (Whitten and Brooks 1972: 375). They are the result of thermal metamorphism, although some can be regionally metamorphosed. They tend to be coarse or medium grained with a whitish, yet glassy appearance, allowing for easy recognition. The Highland series contains quartzites, especially around Nuwara Eliya (south), Rangala (central) and Trincomalee (northeast) (Cooray 1984). This indicates that the quartzites found at

Anuradhapura were exploited from the local geology and probably were not imported from elsewhere. A quartzite ball has been found at Veerapuram in Andhra Pradesh (Lahiri 1992: 355) and a quartzite rubber has been discovered at Hallur, also in Andhra Pradesh. Trench ASW2 yielded a total of 24 beads, 1 bangle and 1 ring. All the beads except one are from period F, as is the bangle, whereas the ring is from period G. This dominance in period F allows for a date range from c. AD 200 to 600.

### 8.12.1 Bead fragments

Special find no: 3246 Context: 370sw  
Stratigraphic phase: XCIII Weight: 0.64g  
Description: Bead fragment  
Dimensions: Fragment

Special find no: 2234 Context: 370sw  
Stratigraphic phase: XCIII Weight: 0.46g  
Description: Bead fragment  
Dimensions: Fragment

Special find no: 2236 Context: 370sw  
Stratigraphic phase: XCIII Weight: 0.29g  
Description: Bead fragment  
Dimensions: Fragment

Special find no: 2233 Context: 370sw  
Stratigraphic phase: XCIII Weight: 0.71g  
Description: Bead fragment  
Dimensions: Fragment

Special find no: 2235 Context: 370sw  
Stratigraphic phase: XCIII Weight: 0.57g  
Description: Bead fragment  
Dimensions: Fragment

Special find no: 2237 Context: 370sw  
Stratigraphic phase: XCIII Weight: 0.26g  
Description: Bead fragment  
Dimensions: Fragment

Special find no: **5010**  
Stratigraphic phase: **XCIII**  
Description: **Bead fragment**  
Dimensions: **Fragment**

Context: **304ne**  
Weight: **0.53g**

Special find no: **5249**  
Stratigraphic phase: **XCIII**  
Description: **Bead fragment**  
Dimensions: **Fragment**

Context: **370sw**  
Weight: **0.79g**

Special find no: **3156**  
Stratigraphic phase: **XCIII**  
Description: **Bead fragment**  
Dimensions: **Fragment**

Context: **370sw**  
Weight: **1.09g**

Special find no: **3262**  
Stratigraphic phase: **XCIII**  
Description: **Bead fragment**  
Dimensions: **Fragment**

Context: **370sw**  
Weight: **0.63g**

Special find no: **5247**  
Stratigraphic phase: **XCIII**  
Description: **Bead fragment**  
Dimensions: **Fragment**

Context: **370sw**  
Weight: **0.23g**

Special find no: **3155**  
Stratigraphic phase: **XCIII**  
Description: **Bead fragment**  
Dimensions: **Fragment**

Context: **370sw**  
Weight: **0.86g**

Special find no: **3168**  
Stratigraphic phase: **XCIII**  
Description: **Bead fragment**  
Dimensions: **Fragment**

Context: **370sw**  
Weight: **2.34g**

### 8.12.2 Lugged sphere bead

Special find no: **2216**  
Stratigraphic phase: **XCV**  
Description: **Lugged sphere bead**  
Dimensions: **1.47cm x 1.08cm**  
[Fig. 8.2]

Context: **322nw**  
Weight: **0.58g**

Special find no: **2230**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **1.5cm x 0.65cm**

Context: **370sw**  
Weight: **0.71g**

Special find no: **2926**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **0.97cm x 1cm**

Context: **304ne**  
Weight: **0.6g**

Special find no: **5244**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **1.22cm x 1.33cm**

Context: **370sw**  
Weight: **1.16g**

Special find no: **5246**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **2.04cm x 1.5cm**

Context: **370sw**  
Weight: **2.48g**

Special find no: **2229**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **1.2cm x 1.35cm**

Context: **370sw**  
Weight: **0.85g**

Special find no: **5038**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **0.9cm x 1.15cm**

Context: **304ne**  
Weight: **0.89g**

Special find no: **2943**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **0.85cm x 1.15cm**  
[Fig. 8.2]

Context: **304ne**  
Weight: **1gm**

Special find no: **5245**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **1.49cm x 1.07cm**

Context: **370sw**  
Weight: **0.76g**

Special find no: **2232**  
Stratigraphic phase: **XCIII**  
Description: **Lugged sphere bead**  
Dimensions: **1cm x 1.27cm**

Context: **370sw**  
Weight: **0.43g**

### 8.12.3 Disc

Special find no: **2658**  
Stratigraphic phase: **XCIII**  
Description: **Disc**  
Dimensions: **0.45cm x 0.64cm**

Context: **345sw**  
Weight: **0.1g**

### 8.12.4 Bangle

Special find no: **1569**  
Stratigraphic phase: **XCIII**  
Description: **Bangle**  
Dimensions: **0.9cm x-sect, 10cm diameter**

Context: **73sw**  
Weight: **8.51g**

### 8.12.5 Ring

Special find no: **10173**  
Stratigraphic phase: **LXVII**  
Description: **Ring fragment**  
Dimensions: **0.32cm x 0.26cm**

Context: **675ne**  
Weight: **0.6g**

### 8.13 Mica

Mica is an abundant mineral occurring predominantly in igneous and metamorphic rocks (Whitten and Brooks 1972: 290). The most common varieties are muscovite, a golden, transparent mineral, which is heat-resistant, and biotite, a black variety. Sri Lanka is rich in mica resources in both the northern and southern regions

(Cooray 1984: 228). Mica is not found at Anuradhapura, although rocks containing mica are present in the vicinity. The nearest modern-day sources are at Kebitigollewa, which is situated about 20 miles northeast of Anuradhapura, and at Kandy.

#### 8.13.1 Muscovite

A total of 73 pieces of muscovite mica have been found from period G to B (c. 200 cal. BC–AD 1100), with the majority in period D (33), followed by 17 in period B.

Period G contains 8 and period F has 14 pieces, indicating a gradual increase.

Special find no: 492 Stratigraphic phase: C Description: 1 piece	Context: 24ne Weight: 1.46g	Special find no: 493 Stratigraphic phase: C Description: 1 piece	Context: 24nw Weight: 0.67g
Special find no: 126 Stratigraphic phase: C Description: 1 piece	Context: 27sw Weight: 3.67g	Special find no: 953 Stratigraphic phase: C Description: 1 piece	Context: 41se Weight: 0.35g
Special find no: 1283 Stratigraphic phase: C Description: 1 piece	Context: 41se Weight: 0.29g	Special find no: 1300 Stratigraphic phase: C Description: 3 pieces	Context: 41sw Weight: 0.13g
Special find no: 85 Stratigraphic phase: C Description: 1 piece	Context: 27se Weight: 0.07g	Special find no: 1357 Stratigraphic phase: C Description: 2 pieces	Context: 41sw Weight: 0.03g
Special find no: 1281 Stratigraphic phase: C Description: 2 pieces	Context: 24ne Weight: 9.84g	Special find no: 40 Stratigraphic phase: CII Description: 1 piece	Context: 14nw Weight: 0.16g
Special find no: 950 Stratigraphic phase: CIV Description: 1 piece	Context: 26ne Weight: 0.56g	Special find no: 952 Stratigraphic phase: CVI Description: 1 piece	Context: 9se Weight: 0.27g
Special find no: 15 Stratigraphic phase: CVI Description: 1 piece	Context: 9ne Weight: 0.17g	Special find no: 487 Stratigraphic phase: CX Description: 1 piece	Context: 19se Weight: 0.07g
Special find no: 1328 Stratigraphic phase: CXIII Description: 1 piece	Context: 71sw Weight: 0.16g	Special find no: 489 Stratigraphic phase: XCVII Description: 1 piece	Context: 25ne Weight: 0.29g
Special find no: 491 Stratigraphic phase: XCVIII Description: 1 piece	Context: 48ne Weight: 0.5g	Special find no: 625 Stratigraphic phase: XCV Description: 1 piece	Context: 56sw Weight: 0.19g
Special find no: 419 Stratigraphic phase: XCV Description: 1 piece	Context: 76ne Weight: 2.9g	Special find no: 1476 Stratigraphic phase: XCV Description: 10 pieces	Context: 78se Weight: 0.85g
Special find no: 310 Stratigraphic phase: XCV Description: 1 piece	Context: 100ne Weight: 0.14g	Special find no: 413 Stratigraphic phase: XCV Description: 1 piece	Context: 133ne Weight: 0.4g
Special find no: 460 Stratigraphic phase: XCV Description: 1 piece	Context: 134ne Weight: 1.28g	Special find no: 471 Stratigraphic phase: XCV Description: 1 piece	Context: 134ne Weight: 0.3g
Special find no: 675 Stratigraphic phase: XCV Description: 1 piece	Context: 195ne Weight: 0.32g	Special find no: 1513 Stratigraphic phase: XCV Description: 1 piece	Context: 253nw Weight: 0.12g
Special find no: 1518 Stratigraphic phase: XCV Description: 1 piece	Context: 253nw Weight: 0.06g	Special find no: 1520 Stratigraphic phase: XCV Description: 1 piece	Context: 253nw Weight: 0.46g
Special find no: 1652 Stratigraphic phase: XCV Description: 1 piece	Context: 256se Weight: 0.01g	Special find no: 1677 Stratigraphic phase: XCV Description: 2 pieces	Context: 256se Weight: 0.02g
Special find no: 1686 Stratigraphic phase: XCV Description: 1 piece	Context: 256se Weight: 0.67g	Special find no: 1694 Stratigraphic phase: XCV Description: 3 pieces	Context: 256se Weight: 0.98g

# Stone Objects

Special find no: 1560 Stratigraphic phase: XCV Description: 1 piece	Context: 262se Weight: 0.29g	Special find no: 1563 Stratigraphic phase: XCV Description: 2 pieces	Context: 262se Weight: 0.03g
Special find no: 1596 Stratigraphic phase: XCV Description: 1 piece	Context: 273se Weight: 0.18g	Special find no: 2626 Stratigraphic phase: XCV Description: 1 piece	Context: 292ne Weight: 0.76g
Special find no: Stratigraphic phase: XCV Description: 1 piece	Context: 296ne Weight: 0.43g	Special find no: Stratigraphic phase: XCV Description: 6 pieces	Context: 301ne Weight: 4.32g
Special find no: Stratigraphic phase: XCV Description: 1 piece	Context: 322nw Weight: 0.96g	Special find no: Stratigraphic phase: XCV Description: 5 pieces	Context: 324ne Weight: 5.21g
Special find no: Stratigraphic phase: XCV Description: 17 pieces	Context: 324ne Weight: 8.65g	Special find no: Stratigraphic phase: XCV Description: 3 pieces	Context: 325ne Weight: 2.23g
Special find no: Stratigraphic phase: XCV Description: 2 pieces	Context: 334ne Weight: 1.87g	Special find no: Stratigraphic phase: XCV Description: 2 pieces	Context: 344nw Weight: 1.47g
Special find no: Stratigraphic phase: XCV Description: 1 piece	Context: 368nw Weight: 0.38g	Special find no: Stratigraphic phase: XCV Description: 2 pieces	Context: 373 Weight: 1.33g
Special find no: 1675 Stratigraphic phase: XCV Description: 2 pieces	Context: 272se Weight: 0.3g	Special find no: Stratigraphic phase: XCV Description: 8 pieces	Context: 316ne Weight: 4.62g
Special find no: Stratigraphic phase: XCV Description: 1 piece	Context: 356nw Weight: 0.5g	Special find no: 449 Stratigraphic phase: XCV Description: 1 piece	Context: 155nw Weight: 1.77g
Special find no: 488 Stratigraphic phase: XCIV Description: 1 piece	Context: 74sw Weight: 0.18g	Special find no: Stratigraphic phase: XCII Description: 7 pieces	Context: 367sw Weight: 5.21g
Special find no: Stratigraphic phase: XCII Description: 1 piece	Context: 364ne Weight: 0.7g	Special find no: Stratigraphic phase: XCII Description: 9 pieces	Context: 389sw Weight: 6.84g
Special find no: Stratigraphic phase: XCII Description: 1 piece	Context: 364ne Weight: 0.93g	Special find no: Stratigraphic phase: XCII Description: 6 pieces	Context: 364ne Weight: 3.74g
Special find no: 2993 Stratigraphic phase: XCII Description: 1 piece	Context: 365nw Weight: 0.63g	Special find no: Stratigraphic phase: XCII Description: 5 pieces	Context: 365nw Weight: 7.8g
Special find no: Stratigraphic phase: XCII Description: 5 pieces	Context: 366 Weight: 4.9g	Special find no: Stratigraphic phase: XCIII Description: 1 piece	Context: 73nw Weight: 0.6g
Special find no: 644 Stratigraphic phase: XCIII Description: 1 piece	Context: 180nw Weight: 0.03g	Special find no: Stratigraphic phase: XCIII Description: 2 pieces	Context: 73sw Weight: 0.67g
Special find no: 1584 Stratigraphic phase: XCIII Description: 6 pieces	Context: 264nw Weight: 0.51g	Special find no: 2959 Stratigraphic phase: XCIII Description: 1 piece	Context: 304ne Weight: 1gm
Special find no: 494 Stratigraphic phase: XCIII Description: 1 piece	Context: 73sw Weight: 1.14g	Special find no: Stratigraphic phase: LXXV Description: 1 piece	Context: 494ne Weight: 1.2g
Special find no: Stratigraphic phase: XCI Description: 5 pieces	Context: 399ne Weight: 7.49g	Special find no: Stratigraphic phase: XCI Description: 7 pieces	Context: 416ne Weight: 9.12g
Special find no: Stratigraphic phase: XCI Description: 2 pieces	Context: 399ne Weight: 1.57g	Special find no: Stratigraphic phase: XCI Description: 1 piece	Context: 406sw Weight: 0.9g
Special find no: Stratigraphic phase: LXXXVII Description: 3 pieces	Context: 437ne Weight: 2.6g	Special find no: Stratigraphic phase: LXXXVIII Description: 1 piece	Context: 75nw Weight: 0.87g



Special find no: Context: 383ne  
Stratigraphic phase: LXXXIX Weight: 0.46g  
Description: 1 piece

### 8.13.2 Biotite

Two pieces of biotite mica have been discovered, one from period D and one from period B. This allows for a date range from AD 600 to 1100.

Special find no: 163 Context: 58ne  
Stratigraphic phase: XCVI Weight: 0.7g  
Description: 1 piece of biotite

Special find no: 993 Context: 151se  
Stratigraphic phase: XCV Weight: 4.3g  
Description: 1 piece of biotite

## 8.14 Crystalline quartz bead production at Anuradhapura Salgaha Watta

Several kinds of semi-precious stone ornaments, beads in particular, were recovered during the archaeological excavation of Anuradhapura Salgaha Watta. The stone beads were manufactured mainly from chalcedony, quartz, jasper and serpentine in many colours. The most common stone bead shapes recovered are variations on a sphere – spherical, subspherical, oblate and disc shapes are particularly frequent, with cylindrical and biconical shapes less common. The beads vary in length from 0.4 mm to 30 mm. One of the most interesting aspects of these finds at Anuradhapura Salgaha Watta is that the finished semi-precious stone beads are often found in association with unfinished beads (such as unground, unpolished, undrilled or partially drilled beads) and their waste products. These assemblages give us some understanding about the methods and technology of stone bead-making and indicate that the lapidary craft was among the activities performed at the site through the centuries of its occupation. In addition, it is apparent that the technology and the manufacturing processes seem to change very little, if at all, through the long chronology of the site. Among the most common stone material recovered is crystalline (clear) quartz. Descriptive analysis of the crystalline quartz indicates that all principal modification stages are represented in the assemblage. This permits us to model the production sequence for crystalline quartz beads and provides the basis for understanding the manufacturing techniques employed for many of the other kinds of semi-precious stone worked at the site. Actual finds will be used to illustrate the several production stages of the model. Additional information about bead-making in Indian civilization can be seen in the work of E. Mackay (1937, 1938, 1943), M.G. Dikshit (1949) and, more recently, M. Vidale (1987), especially as regards carnelian bead production.

### 8.14.1 The raw material: quartz crystals

The raw material for the production of crystalline quartz beads was introduced into the site in the form of quartz crystals (see, for example, sf 10523, Fig. 8.3) (see Table 8.2). Crystalline quartz is a silicon dioxide ( $\text{SiO}_2$ ). It crystallizes in the hexagonal system, displays a vitreous lustre and has a hardness of 7.0 on Moh's hardness scale. Quartz crystals tend not to cleave along crystalline planes but will fracture conchoidally or sub-conchoidally (Harben and Bates 1984). Quartz occurs in colourless and coloured forms, and it is the coloured varieties especially – such as amethyst, citrine, rose red and smoky – that have been valued for centuries as semi-

precious stones. Natural quartz crystals are generally hexagonal prisms terminated by two rhombohedra, but the conditions during crystallization are not always ideal and the crystals may grow distorted. Yet the angle formed by the intersecting prism facets always remains  $120^\circ$ , regardless of the crystal's development. Generally only a small percentage of natural quartz crystal is acceptable for jewellery production because of the frequent presence of internal bubbles, mineral particles and veins, which represent the crystal's growth stages. These 'imperfections' make the crystals less valuable and, in addition, more difficult to cut and shape. Fairly large quartz crystals are found mainly in cavities of coarse-grained granites or pegmatites, in some ore veins and in crystalline schists (Harben and Bates 1984).

### 8.14.2 Method

All the crystalline quartz artefacts were examined macroscopically and with a 10x magnification hand lens. The surfaces on the artefacts were identified as crystal facets, conchoidal fracture scars (negative and positive), ground surfaces, polished surfaces and drilled (internal) surfaces. These surfaces occur either naturally or are produced by different manufacturing techniques. As a result we are able to identify the process that produced each of the kinds of surfaces on each artefact. Because manufacturing techniques have been observed ethnoarchaeologically to occur at different stages of production (Kenoyer *et al.* 1994), we are able to infer the stage of production at which the artefacts were at the point of discard or loss. These include unmodified crystals, crystal cores, flake debris, lithic artefacts in various incomplete stages of ornament production, and whole and broken finished ornaments.

### 8.14.3 Results

Analysis of the crystalline quartz beads, unfinished beads and debris allowed us to construct a model for bead production at the site. The sequence can be summarized in seven main stages (see also Table 8.2).

### STAGE 1: Preparation of the striking platforms

The first stage in the production of crystalline quartz beads is the transversal removal of the two rhombohedras located at the top and the bottom of the quartz crystal. Although the use of a metal blade is one way to remove these two ends of the crystal, saw marks are not present among the debris and cores belonging to this stage.

Instead, the operation was probably done using a simple hammerstone and percussion flaking. Percussion flaking is a much faster method than sawing, but definitely not nearly as accurate, and it may have been common for crystals to be fractured at less favourable points. This would imply that the raw material was reasonably available and not of great inherent value, such that great precision during the fracturing of the crystal in order to limit waste was not required. The removal by percussion of the two ends produces a central piece with two opposite large flat surfaces that could act as striking platforms for further percussion flaking during the next stage. An example of this stage is represented by sf 10523 (Fig. 8.3).

### STAGE 2: *Core preparation*

The crystal piece left after the removal of the two rhombohedra can be called a core. This term is used in lithic technology to indicate a mass of lithic material that had flakes removed in a controlled method from its surface, possibly shifting from a direct percussion to an indirect percussion technique. The flakes are removed from the core at this stage with the explicit intention of cutting away the lateral prism facets of the crystal (e.g. sf 8070, Fig. 8.3). The debitage, or by-products of the core reduction, therefore includes primary flakes defined by the presence on the dorsal side of the original facets of the quartz crystal which are, by nature, flat and finely striated. The original crystal facets apparently are always removed even when the desired end product is a faceted bead. If the core is of a large size it may be split into two or more parts, each of which will be further modified into a bead during the next stage.

### STAGE 3: *Blank production*

The core reduction continues with additional flakes being removed. The knapping of quartz crystals follows the same basic fracture mechanic principles of flint-working (Bordes 1961; Cotterell and Kamminga 1985, 1987). The core is reduced to a shape with a subquadrangular or subcircular section (Fig. 1d). It is very likely that indirect percussion or pressure flaking techniques are utilized during this knapping stage because more precision is now required. This stage can be called blank production: the core is prepared for bead production, but the desired shape of it will be revealed only during the next stage. The result can be illustrated by sf 284 (Fig. 8.3).

### STAGE 4: *Rough-out production*

During this stage the blank is modified by the removal of very small flakes or chips to rough out the basic shape of the bead. The blank is flaked using either indirect percussion or pressure flaking techniques, applied in many different directions from any surface that can be used as a striking platform in order to achieve the desired shape. The resulting rough-out will have a large number of surfaces and slightly projecting ridge lines or arrises; for example, the rough-out of a spherical bead may be found in a shape more similar to a dodecahedron. An example of this stage is represented by artefact sf 2212 (Fig. 8.3).

### STAGE 5: *Grinding*

The process of grinding was done using a grinding stone and coarse grains of an abrasive. Several unfinished beads found at the site show the deep scratches or striations left by the abrasives during grinding. An example of this stage is represented by sf 337 (Fig. 8.3). Since material is removed very slowly, grinding allows more careful control over the final shaping of the stone prior to polishing.

### STAGE 6: *Polishing*

After the bead is ground to the desired shape, it is polished to a mirror-like finish to favour light refraction through the stone. We suspect that polishing was done using very fine grades of abrasives with a lubricant on a polishing surface that may have been of wood, leather or cloth. An example of this stage is represented by sf 1565, a polished oblate bead that is only partially drilled (Fig. 8.3).

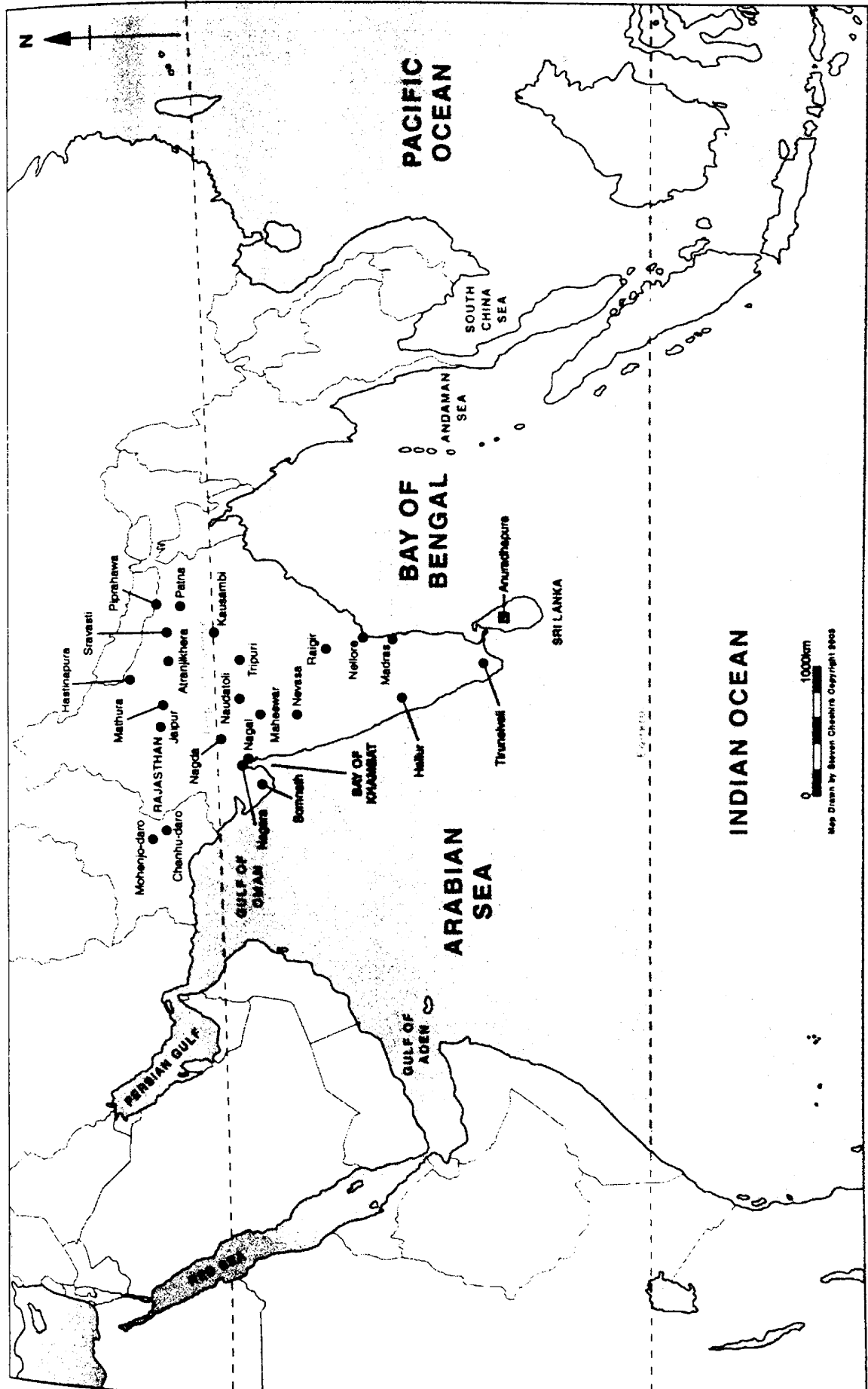
### STAGE 7: *Drilling*

Today lapidarists drill a hole through a bead using a small revolving rod or tube with a tip made of a hard stone (the best tip, which is able to cut a wide variety of materials, is of diamond, the hardest naturally occurring substance with Moh's hardness of 10). The item to be drilled is supported in some kind of clamp in a container filled with water that operates as a lubricant and cooling agent. Drills have a very long tradition in prehistory, with archaeological research indicating that this kind of tool was known in southwest Asia since at least the Copper Age. Drills of this kind are quite common in the bead-making assemblages of the Harappan culture (Mackay 1937, Vidale 1987). Drill heads have not been found at Anuradhapura Salgaha Watta, but beads, even from the earliest periods of the site, display the rotational wear patterns indicative of mechanical, unidirectional drilling (e.g. sf 7123, Fig. 8.3). Further evidence for sophisticated drilling is indicated by the rotational wear patterns observed on the inside of unfinished rings and on the artefacts referred to as earplugs. In these cases, both types of artefacts are actually produced during a single drilling episode with use of a slightly conical drilling tube.

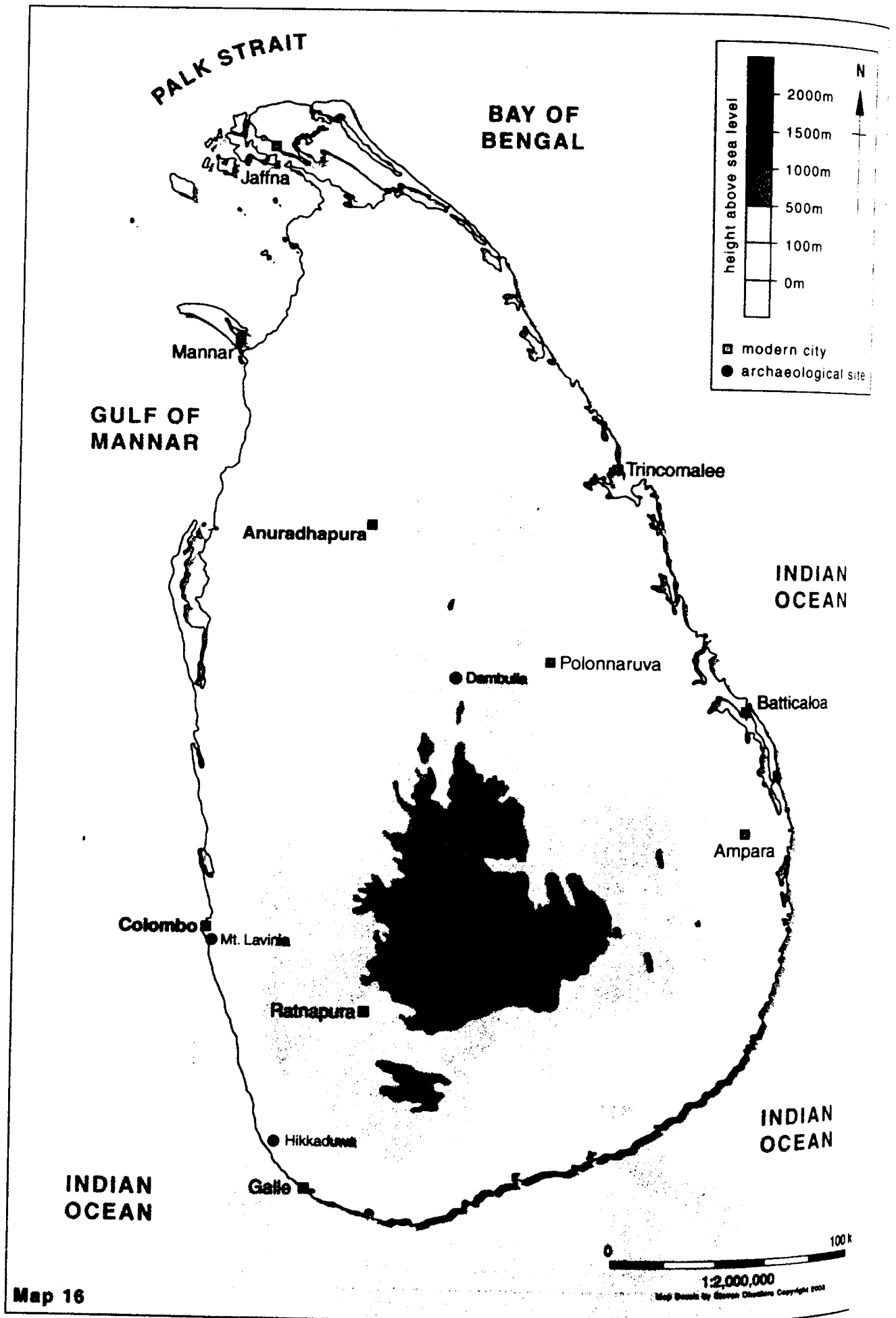
## 8.15 Conclusion

This chapter has catalogued and described all the stone objects found in trench ASW2, and the production techniques have been hypothesized. The majority of objects (244) were discovered in period F, which dates from c. AD 200 to 600. This time frame also represents the largest variety of bead shapes, indicating that craft activities were highly specialized and well organized at this time. Period D has also yielded much stone material (221 objects), with a weight of 4384.97 g; however, as this is the fill of a robber pit, it is likely that this material has been remixed with other layers, rendering this information unreliable. Table 8.1 displays a gradual increase from period J onwards in both the amount and the weight of the stone objects. The variety and amount of materials indicate a demand for semi-precious

jewellery with good evidence for on-site production. Indeed, some of the materials – such as lapis lazuli from Afghanistan – do not occur naturally in Sri Lanka, suggesting trading networks. Trench ASW2 has provided accurate dating to facilitate this temporal study, while comparison with other projects has allowed spatial research.



Map 15



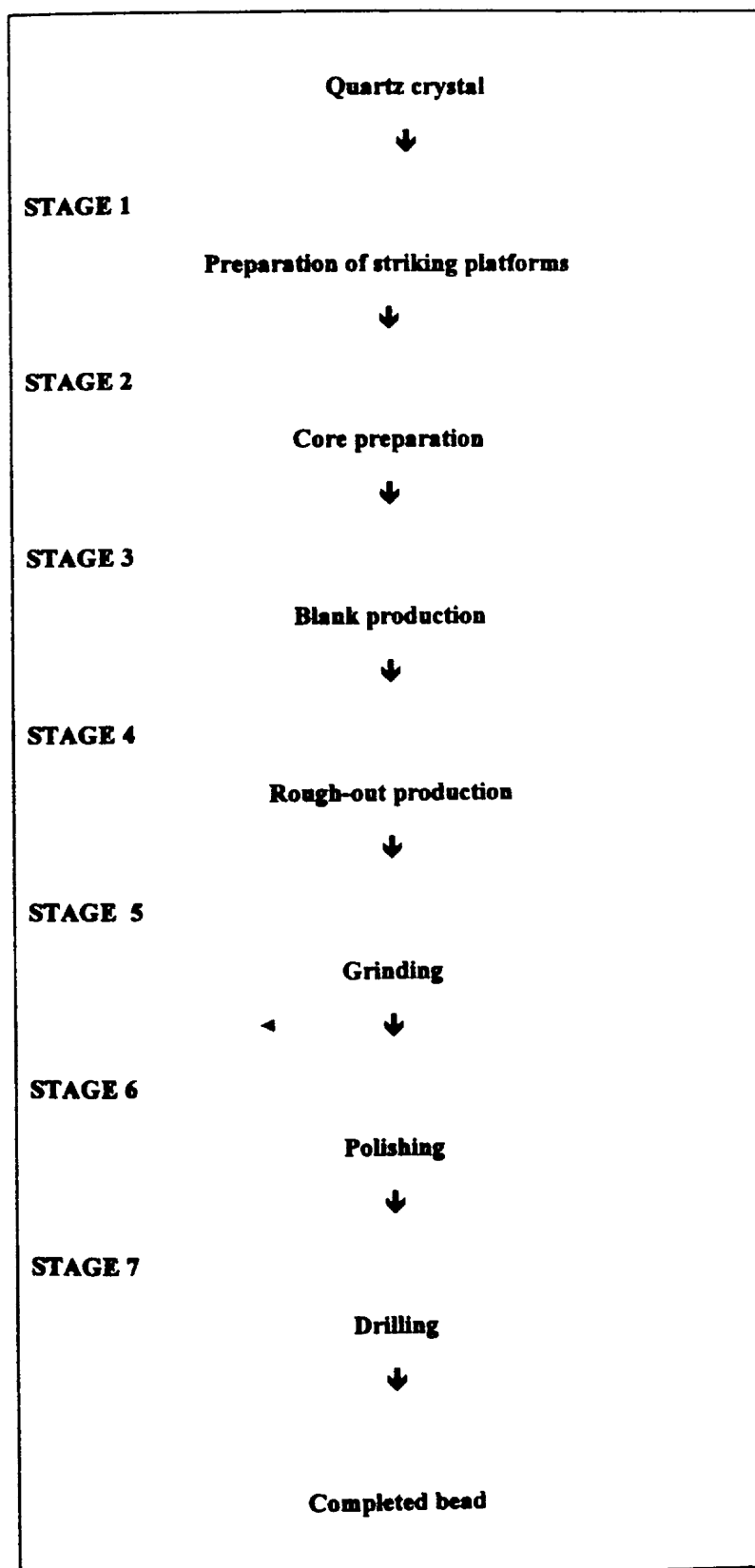


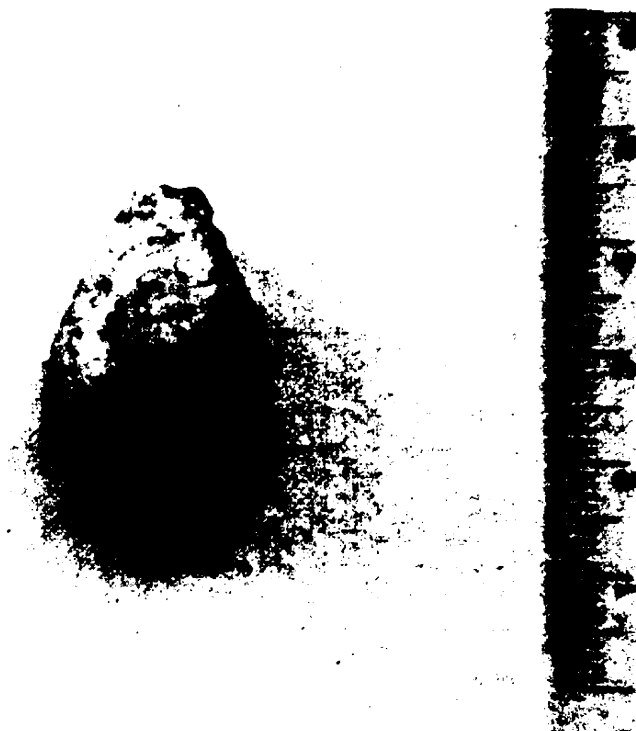
Table 8.2 Crystalline bead production at ASW2

Table 8.1 Stone material

Category	Period	A	B	C, D & E	F	G	H	I	J	K	Unknown	Total
Carnelian	number		3	25	15	51	1	6	2			103
	weight (g)		1.46	36.82	27.21	162.84	2.09	3.18	0.66			234.06
Lapis lazuli	number				2	1		2				5
	weight (g)				0.75	0.53		0.51				1.79
Greenstone	number		10	11	12	6						39
	weight (g)		521.41	3429.95	1751.68	3247.68						8950.72
Sapphire	number			1	2							3
	weight (g)			0.07	0.23							0.3
Chert	number		1	8	3	1						13
	weight (g)		0.86	22.36	11.05	0.84						35.11
Agate	number			1	8	3						12
	weight (g)			0.28	11.65	3.89						15.82
Chalcedony	number		2	1								3
	weight (g)		4.64	0.82								5.46
Jasper	number		2									2
	weight (g)		1.65									1.65
Sard	number							1				1
	weight (g)							4.43				4.43
Garnet	number		3	21	33	8		14	2			81
	weight (g)		2.21	14.84	22.5	4.52		20.91	1.03			66.01
Amethyst	number		11	23	32	24		1				91
	weight (g)		13.73	27.57	140.19	38.24		1.21				220.94
Amazonite	number			1								1

Category	Period	A	B	C, D & E	F	G	H	I	J	K	Unknown	Total
	weight (g)			3.52								3.52
Clear quartz	number		21	69	66	54		18	3		1	232
	weight (g)		73.19	148.03	276.49	421.43		39.34	3.56		0.12	962.16
Smokey quartz	number		3	23	26	18		7	5		1	83
	weight (g)		190	571.07	103.27	92.85		48.36	11.18		89.79	1106.52
Crystalline limestone	number			2	7	2						11
	weight (g)			1.28	10.84	2.06						14.18
Soapstone	number					5						6
	weight (g)					267.44						267.44
Coral	number			1	1	5						7
	weight (g)			61	30.18	118.37						209.55
Quartzite	number			1	24	1						26
	weight (g)			0.5	26.89	0.6						27.99
Muscovite mica	number		17	34	14	8						73
	weight (g)		18.69	70.28	34.7	24.21						147.88
Biotite mica	number		1	1								2
	weight (g)		0.7	4.3								5
Total	number		69	223	245	187	1	49	12		2	793
	weight (g)		828.54	4392.69	2447.63	4385.3	2.09	117.94	16.43		89.91	12280.53



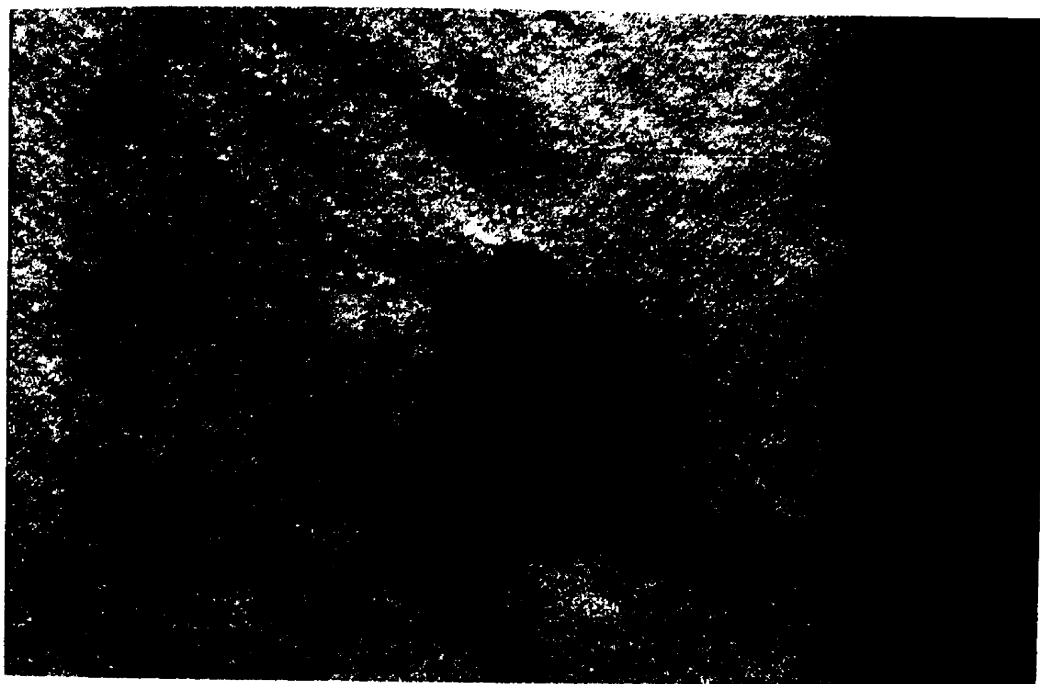


Greenstone conch-shaped bead (sf 2947)

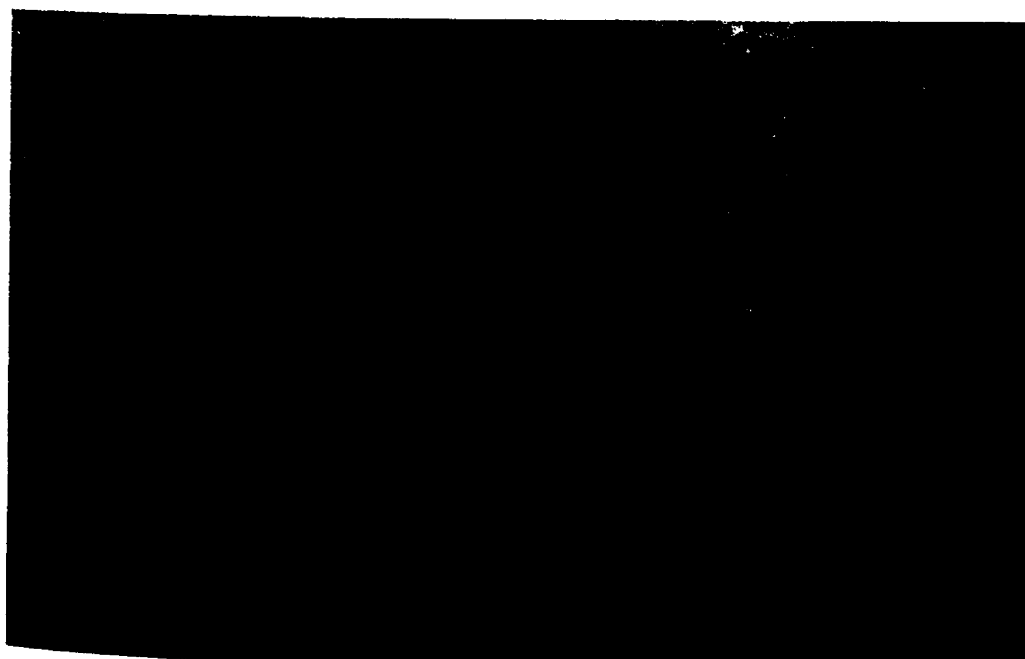


Greenstone conch-shaped bead (sf 2947)

*Plate 8.1: Stone objects*

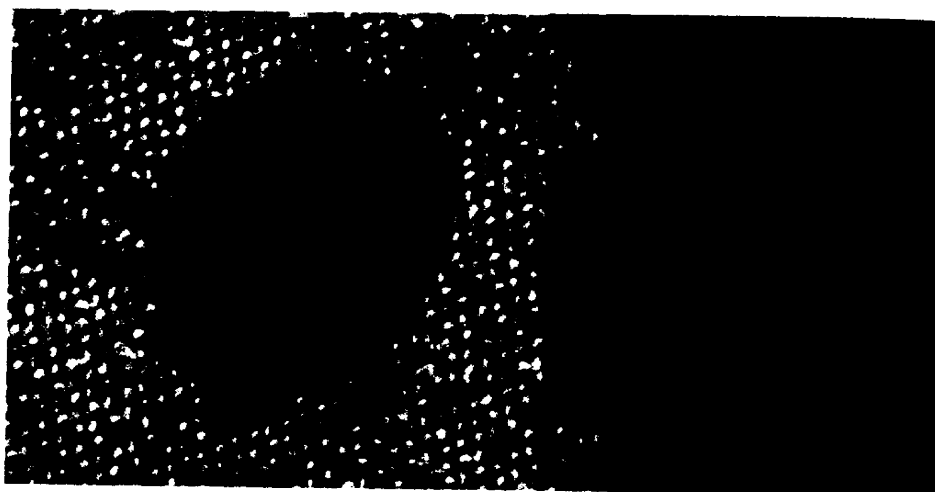


Greenstone pendant (sf 199)



Carnelian bead blank (sf 1050)

*Plate 8.2: Stone objects*

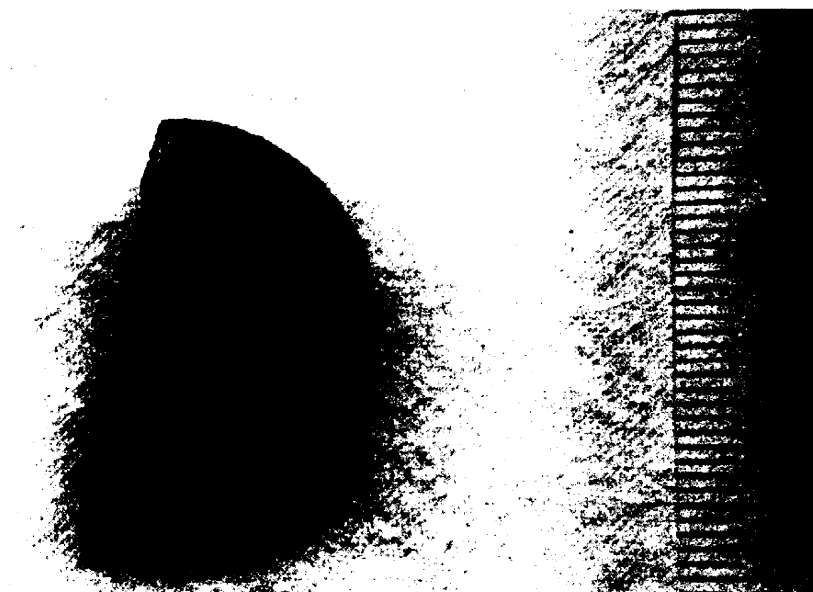


Carnelian jewellery insert with humped bull (sf 261)

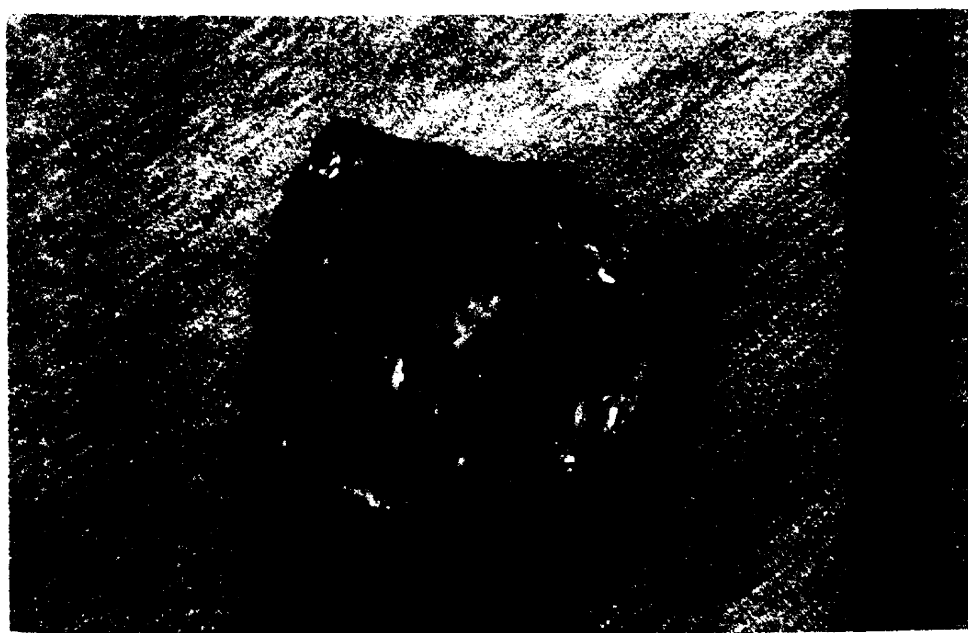


Carnelian shaped bead blank (sf 2871)

*Plate 8.3: Stone objects*



Carnelian button bead (sf 6650)



Clear quartz intaglio or ring blank (sf 792)

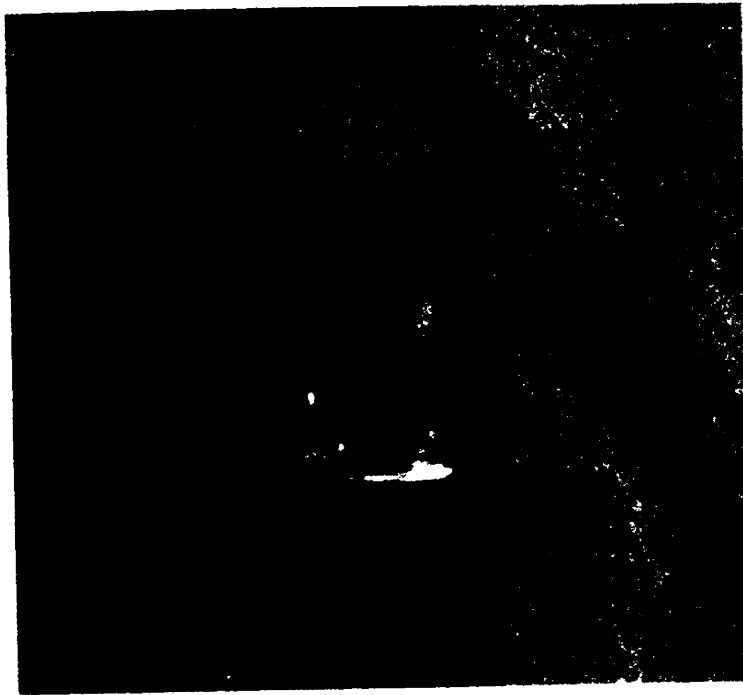


Clear quartz ring blank (sf 2149)

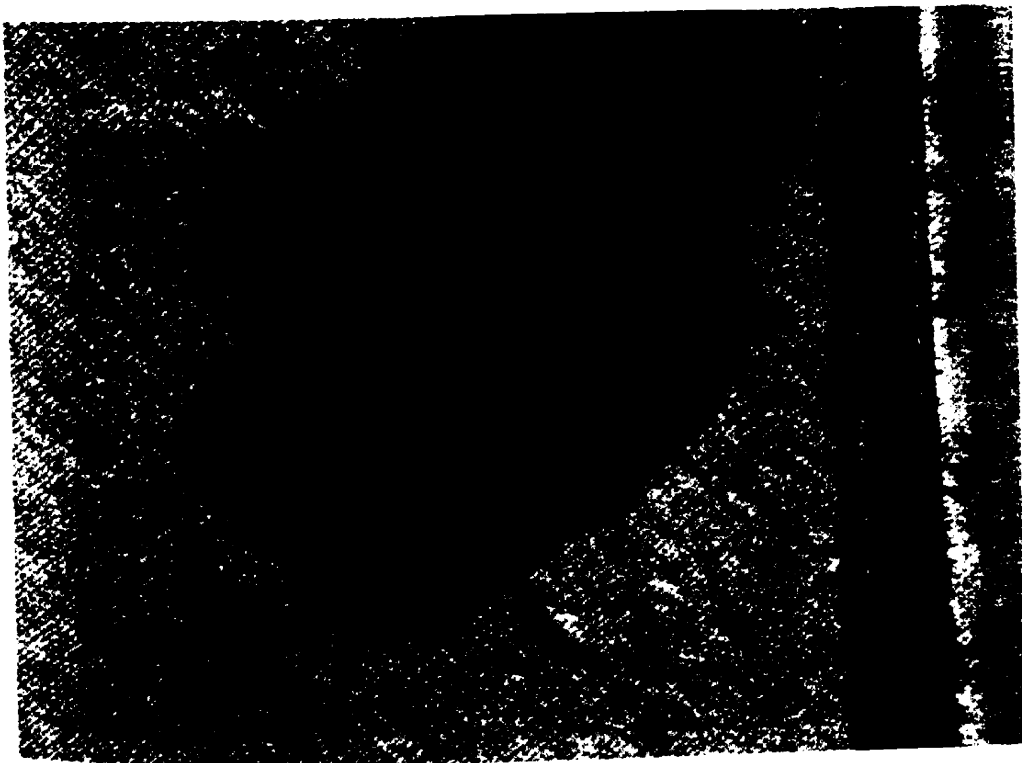


Clear quartz oval bead partially drilled (sf 1565)

*Plate 8.5: Stone objects*

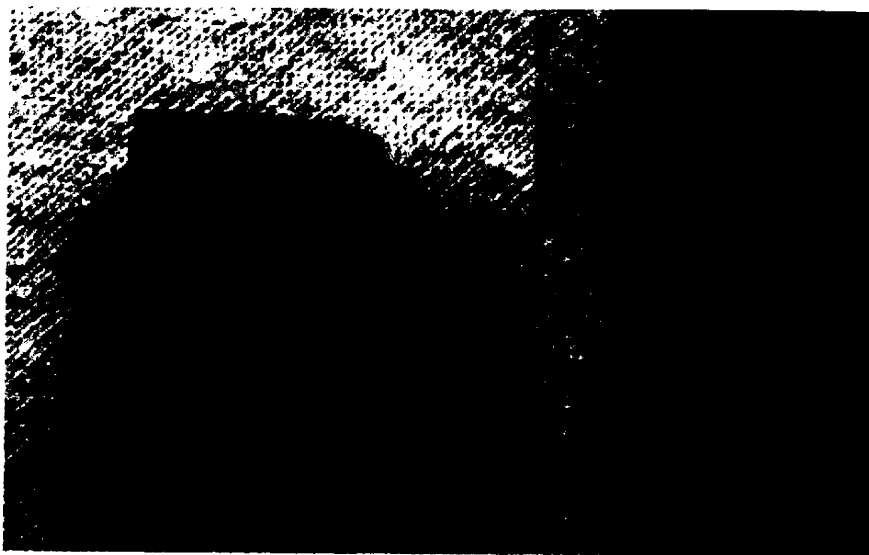


Clear quartz stupa (sf 1609)

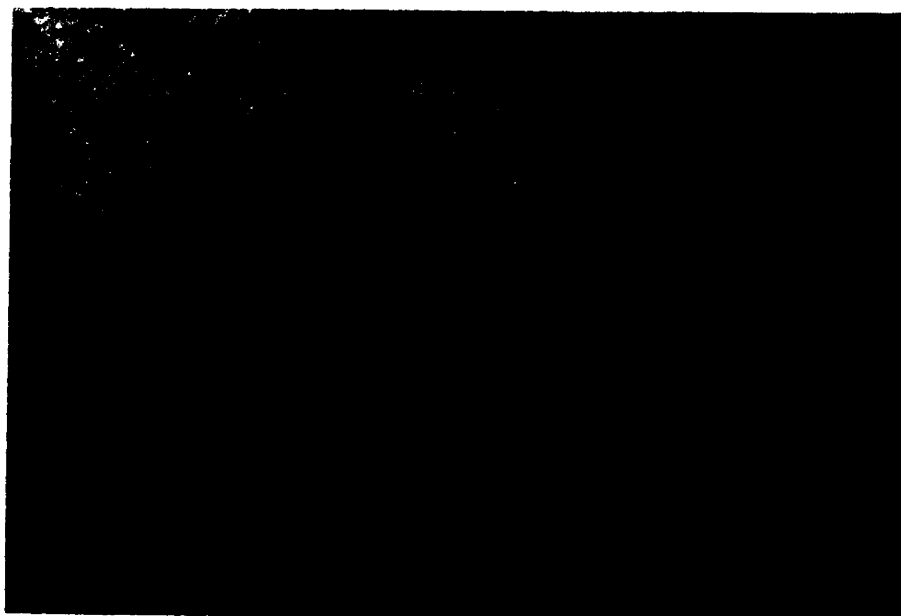


Quartz crystal (sf 10523)

*Plate 8.6: Stone objects*



Clear quartz shaped blank or ring core (sf 5284)



Clear quartz shaped blank or ring core (sf 5284)

*Plate 8.7: Stone objects*

*Stone Objects*

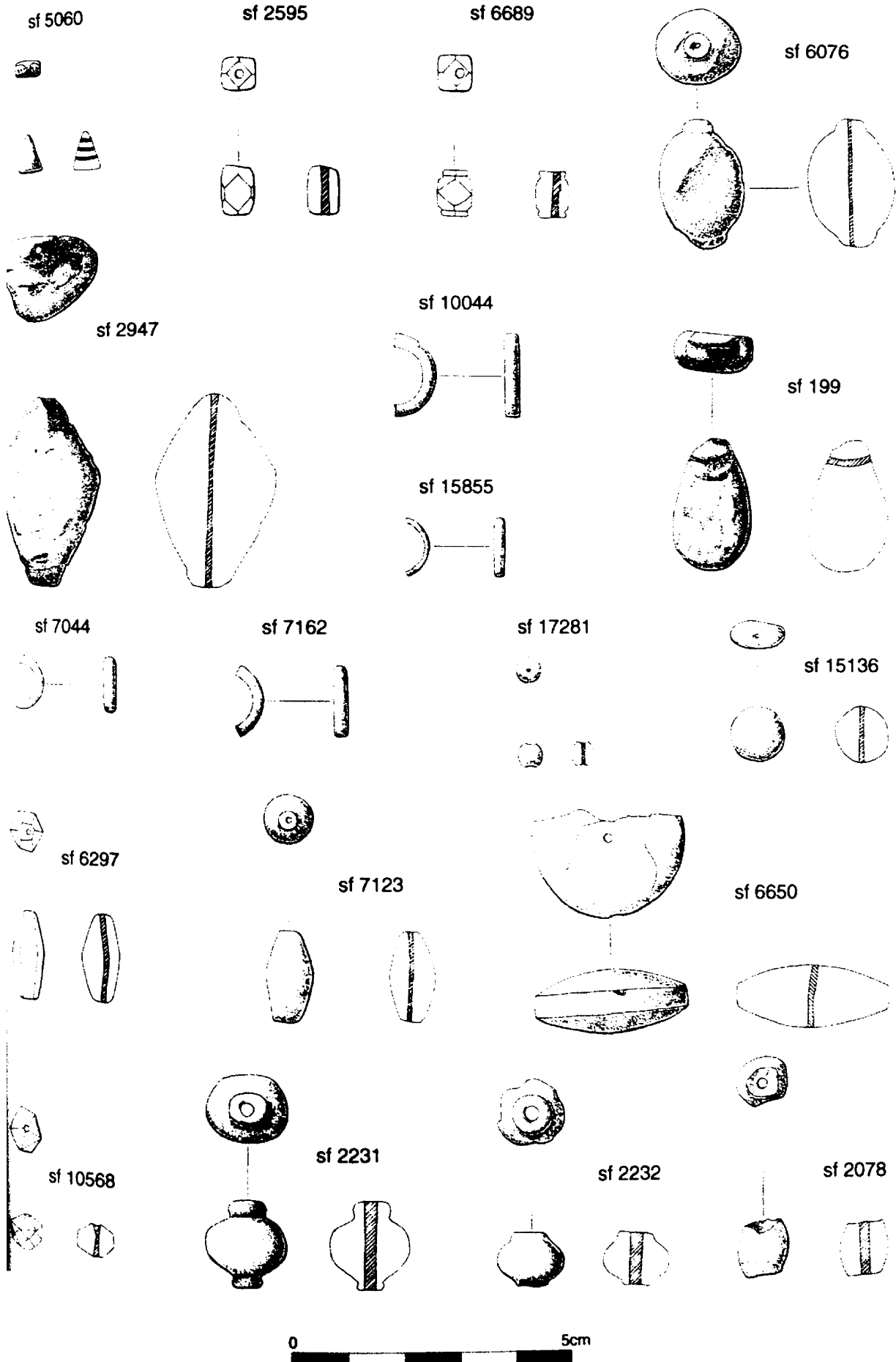


Figure 8.1 Stone Objects



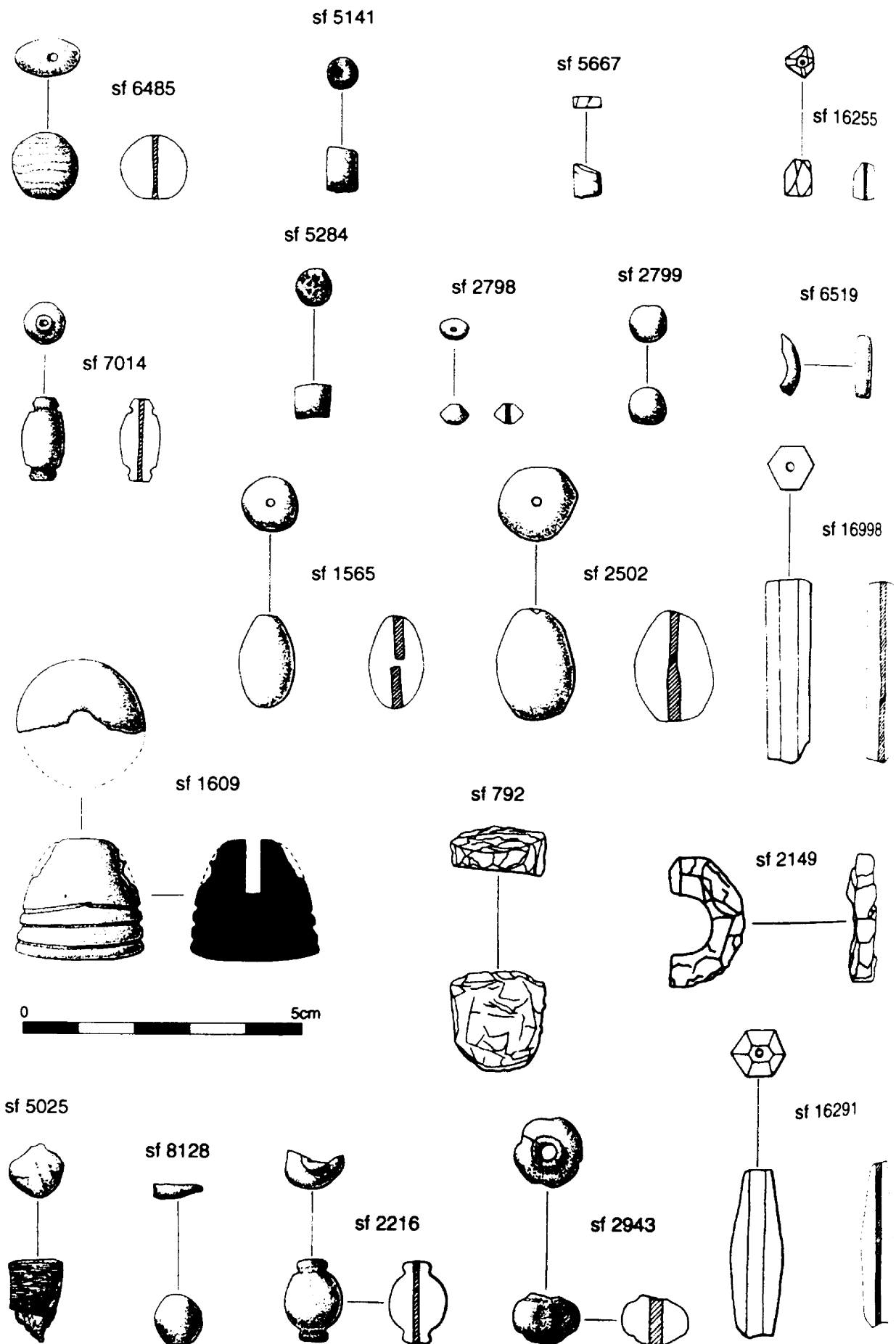


Figure 8.2 Stone Objects

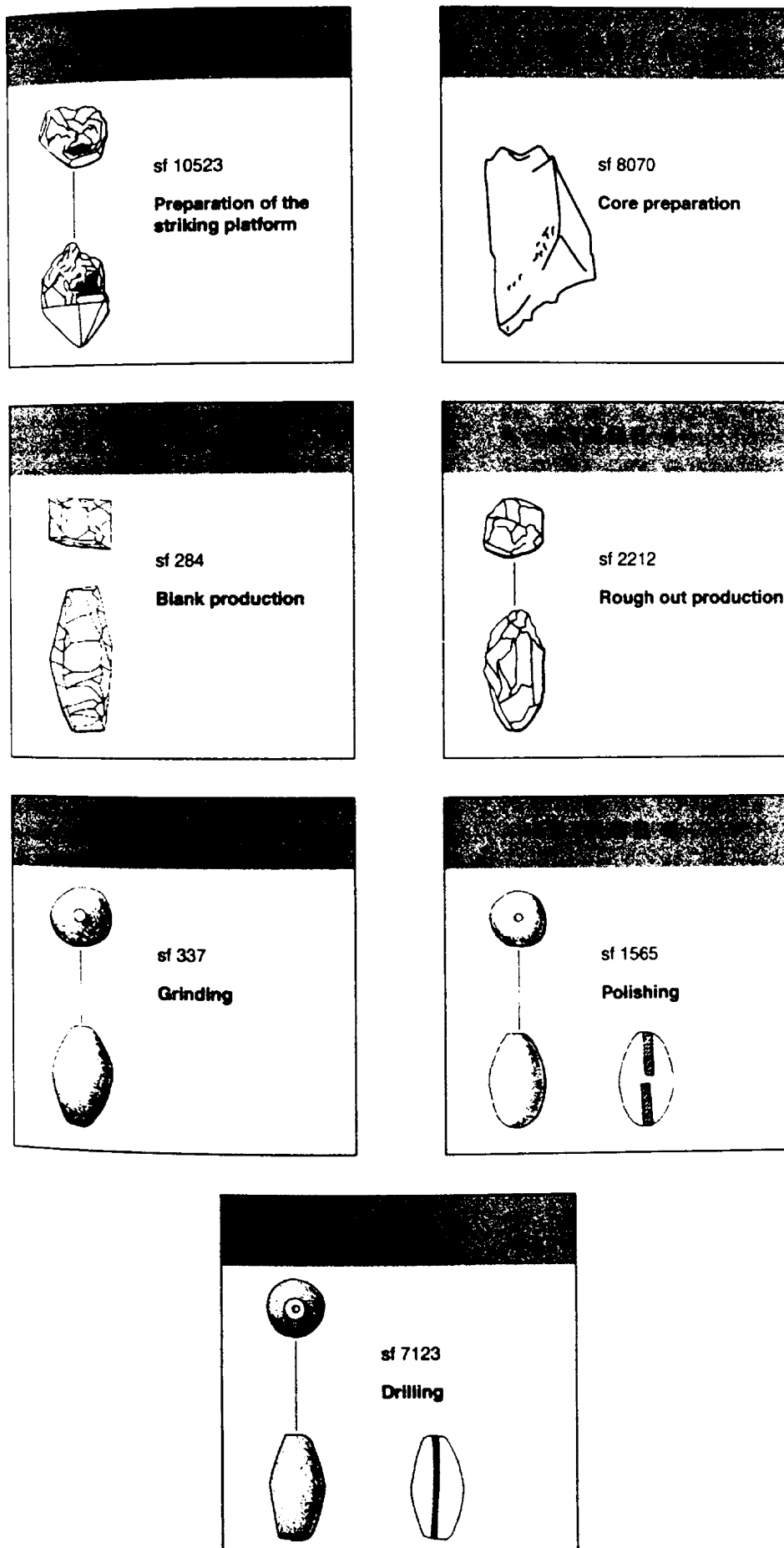


Figure 8.3 Stone Objects