

## FLORIDA COIN BEADS

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## ABSTRACT

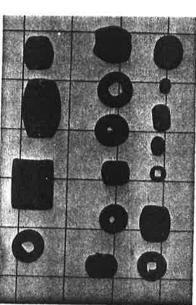
salvaged butive system. suggested that they were hammered into shape by Indians or possibly by Spanish seamen resi-dent in Indian camps. Their wide distribution suggests the existence of some sort of redistritheir associations had indicated that they Colonial found associated with both Indian and Spanish clearly At a number of historic sites in defined type of silver bead has been artifacts. made from Spanish from wrecks along wrecks along the coasts. Study of these beads cut silver coins Florida a were

In the course of an analysis of glass beads of European origin in Spanish-Indian sites in Florida and the Caribbean we became aware of a type of simply made silver bead that occurred widely in Florida Indian sites but were not found in purely Spanish sites in Florida or the Caribbean. They are found at Goodnow Mound (Griffin and Smith 1945: 14-15, Pl. II-A) on the east coast, at Ft. Center just west of Lake Okeechobee, and at Punta Rassa on the west coast as well as sporadically at other sites. No very precise dating is yet possible but the associated glass beads seem to indicate dates as early as the 16th century and as late as the first quarter of the 18th century. Thus they cannot be used at present as chronological markers, but are of interest for the light they throw on Indian and Spanish relationships.

1951: P1, 7 N, 8 E-1). In at least a few cases in the Vero Beach area they are also associated with rolled tubular beads of silver and copper well as a series of cut metal ornaments (Rouse they seem to be associated with Florida Spheroiseed beads of blue, green, and white colors. At Canova Beach and Wabasso Beach, as well they are associated with Florida Cut Crystal, Florida Cut Crystal Pendant, Punta Rassa Teardrop Pendant, Seven Oaks Gilded, Chevron, and dant, and possibly other forms. At colors. At Ft. Center they are associated with Florida beads of opaque white, light blue, and dark blue Florida Spheroidal (translucent green), and seed beads of the some Florida Cut beads of blue, Amber Chevron, beads are associated at Goodnow with of the following types: Florida Cut Cry-lmber Chevron, Ichtucknee Plain Blue, Cut Crystal, Florida Cut Crystal Penother sites in the Crystal, and amber beads as Vero Beach area Punta Rassa

> of the earlier 18th century mission sites. All indications are that these Florida Coin Beads date from about 1650 to about 1720.
>
> The beads vary in size and shape as can be seen from Table 1 and Fig. 1. The overall shape from the Bead from Fuller Mound A, Br 90, would date bead and Amber bead, and probably the Chevron some of the sites recorded in that area, such as Br 134, are clearly the camps of salvors who used some Indian labor. The Florida Cut Crystal Pierce coastal The wrecks so far positively identified in the as 1715. They do occur, however, in some are those of the 1715 stretch 17th century and are rarely found as from Sebastian Flota. Inlet At least Ç

as is indicated in Fig. 2 "H" in which the cross-arm is vertically pierced tudinal though usually te smooth, showing few if any tool marks, share the characteristic of having a longinal section resembling the capital letter majority are spherical form). b few are rather neat cylinders. ity are barrel shaped (i.e., an spherical with flattened barrel sur. outside ends, ... is usually an elon-



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Fig. 1. Florida Coin Beads from the Punta Rassa site. University Museum, University of Pennsylvania, No. 8193. Lines are 2cm. apart.

Perforations are relatively large in relation to bead diameters. About half of these perforations have a square shape and show the appearance of having been punched rather than drilled as small extrusions of metal are found around the lip of the hole. In some cases the central hole is rather round and could have been drilled. In the case of at least some of these round holes the minute extrusions of metal around the edges suggest that they were punched with a round tool rather than one having a square cross-section.

TABLE 1

	R=72-114 = 89.02 Mode=85.25 S=10.81		ž.	R=.65-25.6 Mode=6.475 Mode=6.475	0 • TT= <u>x</u> -	Mode=12.3
arou arnha	0.00					<b></b>
gdngre hole	0.96	27.44	8	25.6	9.6T	0.71
0.70m 0.7mm h.g	0.68	27.44	8	24.4	23.0	<b>5. ST</b>
Sdnare hole	0.76	10.3	3	0.01	S°TT	S.₽.I
	5.97	£.01	3	6°L	0°5T	<b>5°</b> ₹T
•	0.67	7.51	, <b>†</b>	8°0T	0.8	13.0
Square hole	83.5	10.3	3	9*8	s°st	13.0
Square hole	T03°0	98°9	7	Τ'	<b>73°2</b>	75°2
Sdnare hole	0.88	98.9	122223333	0.9	13°0	15.5
_	S°46	98°9	7	L. 9	5.8	15.5
Sdnare hole	81.5	TO.3	3	5.8	0.01	12.0
	0.78	98.9	2	<i>L</i> 6°S	0.7	15.0
Sdnare hole	0.27	98.9	2,	96°₽	T5°2	15.0
Irregularly sq. hole	0°T6	98 9	2	6.25	0.6	15.0
gdngre hole	114.0	54.5	τ	6°E	0.7	0.11
	85.58	04°t	7/5	₽°Т	0.8	S * L
gdnske poje	₽°78	28.0	₽/T	04.0	9°₽	0.7
	85°9L	28.0 Is		59.0	.mm 2.4	.mm 2.8
$\tilde{\mu}_0$						
Кетаткя	Bead as	Nominal	Coin Value	Weight	rendth	Diameter

From these morphological characteristics the method of manufacture seems fairly clear. I believe that the bead maker took a Spanish cut coin and punched a hole in the center with a wrought iron nail. These nails had square cross-sections and were considerably harder than the silver or villon (silver and copper mixture) coins. Round holes could have been punched either with a round tool or the nail could have been used as a reamer to round the hole. It would seem that some anvil with a hole for the punch would have been handy but not really necessary. Experiments using a hard wood anvil and silver discs of about the thickness of Spanish coins indicated that this method is clearly possible. It evidently was not necessary to heat the coins in order to punch the holes without buckling the coin.

The second step in making a bead was to hold the pierced coin in a vertical position, when the punch would be horizontal and serve as a convenient handle. That the punch remained in the hole during this stage seems pretty certain. With the coin in a vertical position, the edge was hammered repeatedly while the coin was rotated in its punch axis. This expanded and thickened the edge in a sort of double mushroom which gradually approached the typical "H" form. Leaving the punch in place prevented the hole from collapsing or being deformed during this hammering process. The use of a square nail would greatly facilitate handling the coin during the whole process.

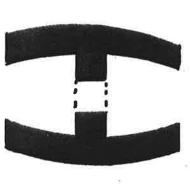


Fig. 2. Cross-sectional diagram of a Florida Coin Bead.

When the desired cylindrical, spherical, or barrel-shaped form had been achieved, the bead was finished by polishing. How this was done is not apparent. I suppose that with moderate skill in the hammering stage, little final polishing would be necessary.

beads were compared to the weights of Spanish cut coins as shown in Table 1. In the two cases The loss is not great, however, and seems to support our hypothesis about the origin of the during the hammering and finishing processes. averaged the presumed legal weight of the coins. cases, however, they are only slightly less than of any denomination of Spanish coin. the beads bear no clear relationship to weight loss of metal would occur. silversmiths and it is to be expected that some beads. These were clearly not made by skilled weight. This implies that some metal was lost The weights of the Punta Rassa 8.21 grams õ 86.37%of the series of In most

the period show clear signs of this shaving process. The cut and shaved "cabo" was then off the proper amount. Many of the cut coins of called "Cabo de barra" most important, used a method which has been minor variations in weight are to be expected (Peterson 1965: Pl. and the force was irregularly applied. hammer to transfer the designs, or parts of them, to the coin. Most of the "cabos" were irregular signs. The whole stack was then struck with a placed between two dies bearing the proper degrams. throughout the period, weight of an eight real, or piece-of-eight, varied approximating the weight of the The strip or barra was then cut into bits (cabos) long strip, apparently on a smooth stone surface this technique molten silver was poured out in a New World mints, of which Mexico City was the During the period under discussion the Spanish which the cut coins were made, we will see that When we consider the relatively crude way in or the assayer, simply chipped or shaved The cut If the worker cut his "cabos" too big. coins rarely 24). show 읁 averaging around complete designs "bit of a bar. coins. The re-

minted. The coins available in any quantity are 1731, most earlier coins seem to have been repressed coins with milled edges appeared after uncirculated, very accurately for several reasons. Few, if any, weight. We are not able to check coin weights groups that individual coins varied in weight but that weigh coins offered them. Nesmith (1955) asserts most merchants used scales of various types to shaving could be readily detected. about 1731 that milled edges came into use and was not until the development of the screw press by anyone into whose possession they came. It Coins made by this method could be shaved of. coins cut coins generally are available. averaged above Before 1731

do not give an accurate picture of the original even by the most careful methods, they certainly them to Spain. When these have been cleaned, those from wrecks of the Spanish Flota carrying weights.

process used to make Florida Coin Beads probably within the capability of either clearly recounts the fact that shipwrecked mar-iners were often held for years by the Indians them is not as easily resolved. Certainly the made from silver cut coins of 1/4, 1/2, 1, 2, 4, and 8 reales value. The question of who made system involving a redistribution based on tri-bute from subject towns and bands. It now seems thus rather removed from either coast. Goggin Center site just west of Lake Okeechobee, and largest collections was intrusive into the Ft. clean across the peninsula. In fact, one of our most interesting is that these beads are found silversmithing or metal-working. What is perhaps Indians or of the Spanish sailors, untrained in sent out to recover whatever was possible also (Fontenada 1944). The Spanish salvage crews (Dickinson 1945). salvaging any wreck that came to their attention Indians along Florida's east coast were busily in the vicinity of Canaveral. Yet relatively few clear that the bulk of Spanish wrecks occurred cruited locally (Governor of Florida 1716). then taken to Calusa country as tribute. east coast, by either Spaniards or Indians, and West coast sites. The majority have come from Central sites or Mound and a few sites in the Vero Beach area. or three specimens have come from the Goodnow Florida Silver Beads have been found there. Two on the east coast of the peninsula, especially usa in the 16th and 17th centuries had a ramage possibility that the beads were made on the The Florida Coin Beads seem to have been Sturtevant (1964) have shown that the Calto have had Indian labor, The experience of Fontenada There seems to be a strong probably reeither

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