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**Typo-morphological Methodology applied to Cedrosan Saladoid Ceramics (circa I-IVth c. A.D.) at the Vivé Site, Martinique (Lesser Antilles). July 1999, SRA Martinique, Fort-de-France**

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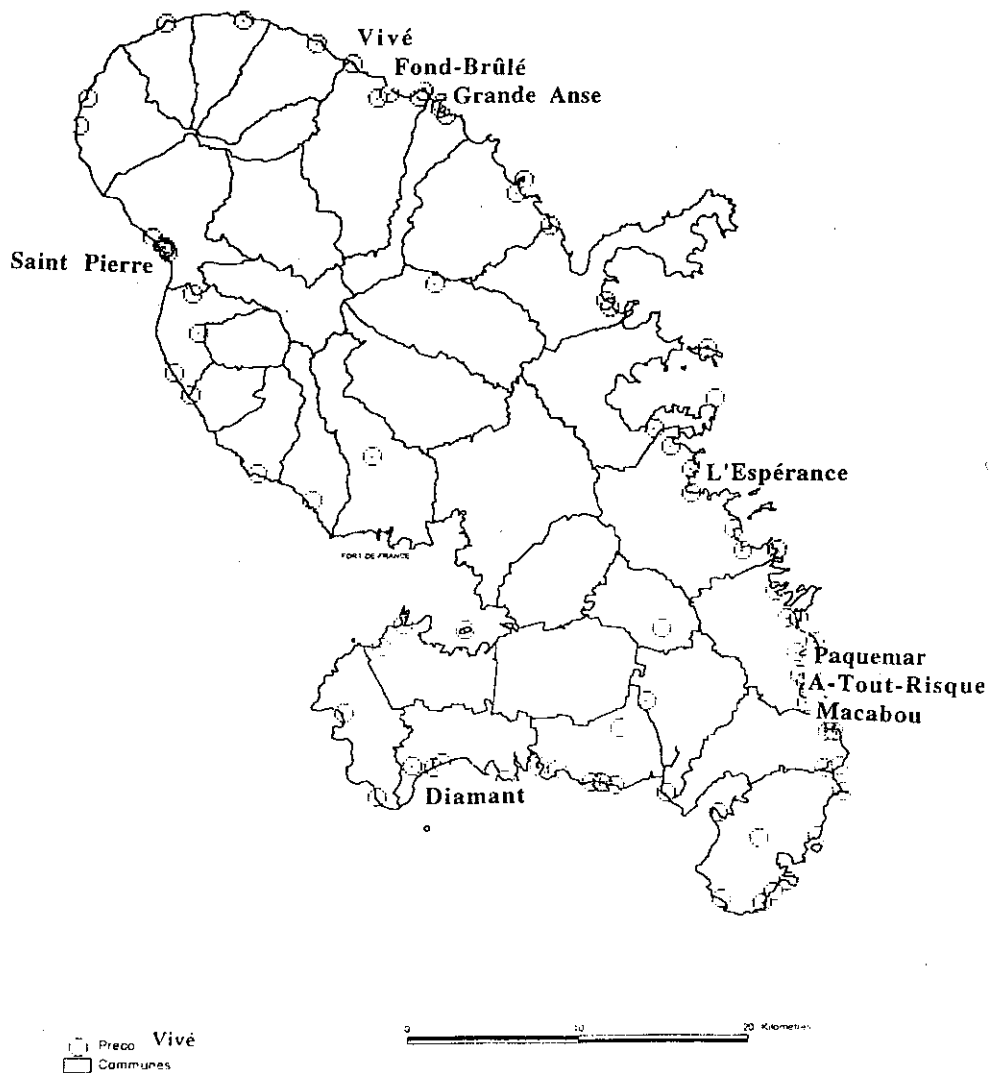
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**TYPO-MORPHOLOGICAL METHODOLOGY**  
**applied to Cedrosan Saladoid Ceramics (*circa* I-IVth c. A.D)<sup>1</sup>**  
**at the VIVE SITE, Martinique.**

**Gilles Desrayaud**  
with the collaboration of Agnès Berthé.



**July 1999**  
**S.R.A Martinique, Fort-de-France.**

**Front cover : Map of the principal known Martinican praecolumbian sites and names of deposits cited in text (communication of the S.R.A Martinique, 1997).**

**TYPO-MORPHOLOGICAL METHODOLOGY**  
**applied to Cedrosan Saladoid Ceramics (*circa* I-IV<sup>th</sup> c. A.D)<sup>1</sup>**  
**at the Vivé Site, Martinique.**

**Gilles Desrayaud<sup>2</sup>**  
**with the collaboration of Agnès Berthé.**

Since the resumption of fieldwork at the Vivé Site in 1996<sup>3</sup> a great quantity of sherds have come to light<sup>4</sup>, adding to previous finds<sup>5</sup>. The systematic method used for recent excavations, considering all three dimensions in space for each object, will allow for analysis of the fragmentary ceramic material vertically (chronological periods and phases) as well as horizontally (spatial analysis of successive habitats).

For the present, the priority is to establish the diagnostic criteria that characterize the ceramic assemblages of the undisturbed layers in order to define successive stylistic phases within the so-called Saladoid Cedrosan Subseries at the Vivé Site<sup>6</sup>. The abundance of decorated material and the complexity of shapes has forced us to coin a complex classificatory methodology in order to establish representative ceramic types that, subsequently, shall enable us to carry out further studies on iconography, function, technology<sup>7</sup> and so on...

The purpose of the following work is to establish a preliminary classificatory typology and counting procedure for Saladoid sherds from Vivé. This method is aimed at both constructing a chronological ceramic sequence and replacing isolated fragmentary bits of pottery in their original frame as pots and objects. In the short term indeed, it should be possible to correlate types and modes of decoration and fragmentary morphological elements with specific categories of ceramic containers and objects ; and then to evaluate their frequencies and estimate their « population » in a given context.

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<sup>1</sup> After the current general periodization presented in Rouse 1992 : 52-53 fig. 14-15 (see also Duval 1996 : 1-59). The first century as the initial time of ceramic pre-columbian settlement at the Vivé Site is hypothetical and very approximate ; it was obtained by comparison with other deposits of the Lesser and Greater Antilles. The pending C<sup>14</sup> dates on the lowest stratum (C3b) should allow for a more precise evaluation. The IV<sup>th</sup> century coincides with the first reoccupation of the site after the volcanic eruption of c. 280 A.D (stratum C1b over the eruptive pumice layer C2). Later deposits have been totally disturbed by intensive plowing in recent times. See fig. 11 & 12.

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<sup>3</sup> For a detailed description of the site and historical account of investigations, refer to Mattioni 1979 and Giraud *et alii* 1996, 1997 & 1998.

<sup>4</sup> 21 pits and 2 larger areas have been excavated this far, totalling more than 30 000 sherds for the undisturbed layers.

<sup>5</sup> Pits and excavations conducted between 1969 and 1984 by Mario Mattioni and various investigators (Mattioni 1979).

<sup>6</sup> The use of arbitrary levels gives the possibility of verifying the contemporaneity of levels within a same visible stratigraphic unit and/or layer of artifacts and of conducting vertical seriations (see Meggers 1968 and fig. 11-13).

<sup>7</sup> For a review of the methods for ceramic analysis see Shepard 1956, Gardin 1976, Rice 1987, Balfet, Fauvet-Berthelot & Monzón 1992, Orton, Tyers & Vince 1995...

For the present time, we still are working at a descriptive classificatory level. After many trials and failures, the following descriptive criteria and groupings have appeared to be the most representative of Vivé's Cedrosan Saladoid Series<sup>8</sup>, principally of the III<sup>rd</sup> and IV<sup>th</sup> centuries A.D.<sup>9</sup>. Needless to say that it only represents a first step toward a systematisation of the descriptive vocabulary and a « type-variety » classificatory methodology.

### **Manufacture and decoration criteria :** (fig. 1 & 2, pl. I-XVII)

The sherds were sorted out according to successive discriminating criteria of fabric (clay and inclusions), surface treatments and decoration, « painted » (true paint or differentiated slip) and plastic (engraved/incised, with the exception of modellings that have been counted together with morphological elements, see below).

Fabrics were separated into two large groupings, beige-grey and brown-orange, following criteria of texture and clay color. The variation in the size of inclusions, mostly mineral<sup>10</sup>, rather depends on morphological factors : thick-walled ceramics, such as cylinders or griddles (pl. Ia & IX)<sup>11</sup>, contain the same type of coarse temper regardless of the variety of clay. The criteria for characterizing fabrics are illustrated for the brown-orange variety as follows (for the beige-grey variety see fig. 2) :

#### **Brown-orange fabrics :**

**Manufacture :** coiling, slab-building, hand-modelling.

**Non-plastic inclusions :** fine to middle-size grained (<2mm) black, white and transparent minerals.

**Temper :** Sometimes crushed pottery or coloured stone fragments such as jasper (>2mm)... Most often for thick-walled ceramics (>7mm).

**Texture :** Homogeneous, hard to average compactness. Jagged breaks. Friability depending on the coarseness of inclusions and intensity of firing (for ex., griddles often friable).

**Colors :** Brown-buff to brown-orange (Munsell : 2,5-5 YR 3 to 6) with reddening or darkening firing effects.

**Surface :**  
colors : same as matrix.  
treatments : Polished or burnished (except for the interior of some restricted vessels left untreated).

**Thickness :** between 4 and 20mm (griddles and cylinders<sup>12</sup>).

For beige-grey fabrics, the criterion of untreated inner surface was retained as statistically representative (see fig. 9). It enables us to isolate restricted vessel shapes (such as bottles and

<sup>8</sup> Apart from recent excavations (principally, Pits 3, 6, 8, 9, 15, 16, 17 and Areas 1 & 2), the descriptions and definitions presented below also are based on observations and comparisons made on old Cedrosan Saladoid collections from Vivé and Fond-Brûlé (study of the Mattioni materials in progress by Agnès Berthé and Amélie Calado, respectively for their IV<sup>th</sup> and V<sup>th</sup> year degrees at the University of Paris I Panthéon-Sorbonne). Later ceramics from Le Diamant (c. V<sup>th</sup>-VIII<sup>th</sup> c. A.D) and Saint Pierre (c. IV<sup>th</sup>-XIII<sup>th</sup> c. A.D, see below) were also referred to as comparisons. The few available bibliographical references concerning Martinique were also consulted (Petitjean Roget 1975, Allaire 1977, « Archéologie Martinique... » 1991).

<sup>9</sup> Most of the sherds studied came from the C3a and C1b strata, dated respectively from 250-300 A.D and the IV<sup>th</sup> century A.D.

<sup>10</sup> See Walter 1991 and Belhache *et alii* 1991.

<sup>11</sup> An attempt at classifying fabrics according to the coarseness of temper was realized for the material of Pit #3. The great majority of coarse tempered fabrics corresponded to cylinders and griddles regardless of the variety of clay.

<sup>12</sup> Some cylinders are full (pl. Ia, and examples from Fond-Brûlé). Their hasty identification as « incense-burners » is dubious. Some are full and others don't have any kind of operculum or opening at all (« Archéologie Martinique... » 1991 : 61[C15]). Moreover none of them has traces of soot or of heating on the inside.

containers with restricted necks), that were nearly exclusively made of beige-grey clay (apart from a very few examples of the brown-orange variety). Indeed, it appeared that the colour of clay was not chosen at random but according to the kind of decoration and shape desired, apparently playing an important part in the decorative composition<sup>13</sup>. Scraped, scratched or brushed surfaces can also be found at Vivé sporadically. Nonetheless, those treatments only become statistically representative after A.D 800<sup>14</sup>.

Applied decorations are characterized by the monochrome, bichrome or trichrome use of white, red and/or purple<sup>15</sup> paints or red to red-brown slip, sometimes with patterns in white, black, red or white and negative (usually for beige-grey surfaces). The use of black paint seems limited to outlining modellings and coating the interior of some containers<sup>16</sup>. Zoned painted areas are often outlined by incised patterns (pl. Ib & II).

Plastic decorations, aside from modellings, are usually made up of large incisions and/or fine engraved/incised lines (pl. IVb & V, « Zoned Incised Crosshatched »). Punctuation is seldom used, as well as gouging that only becomes diagnostic after A.D 800<sup>14</sup>. Underlining incisions of modellings (as for nubbins, see note<sup>21</sup>) have not been considered as counting units ; only « plain incisions » or incised patterns have been counted (pl. VI & VII)<sup>17</sup>.

The counting of sherds bears upon recurrent decorative modes and types<sup>18</sup>. The interior monochrome coating of some sherds has not been considered. Figure 2 presents an example of some of the sorting decorative criteria for sherds of beige-grey fabrics, showing some of the preferential choices that have to be made when choosing one category or another<sup>19</sup>. The first typological countings conjured up a number of diagnostic decorative modes and types (see fig. 9 and 13) for Vivé's Cedrosan Saladoid Series. However, the sample studied so far is too reduced to establish their frequencies with certainty.

### **Morphological elements : (fig. 3-7)**

The preliminary morphological definitions presented in figures 3 to 7 encompass several ceramic series from Cedrosan Saladoid to Suazoid (c. I-XV<sup>th</sup> c. A.D). They were obtained after a first attempt at synthetizing the morphological elements that characterize the precolumbian ceramics of Martinique. They are based on fragmentary materials from Vivé and Saint Pierre<sup>20</sup> (IV-XIII<sup>th</sup> c. A.D), and from the primary data given by Louis Allaire in his Ph. D (Yale University, 1977 : L'Espérance, Paquemar, A-Tout-Risque and Macabou Sites between

<sup>13</sup> Thus the distinction between computer table-entries 9(1) and 9(2) (fig.9), the former insisting on decorative types and the latter on fabrics and surface treatments.

<sup>14</sup> See Allaire 1977.

<sup>15</sup> The distinction between red and purple is not always diagnostical. As concerns certain types, they seem interchangeable, whereas for others their differential use has chronological implications.

<sup>16</sup> For example, quite often the interior of « Mario vats » (pl. XV-XVI) is coated with black paint, those that are not usually present a deep corrosion wear caused by the liquid they contained (perhaps brewed manioc...). The black pigment used to coat the inside of containers thus probably had a protective function (pl. XIVb).

<sup>17</sup> Pl. VI is counted as monochrome incised, whereas pl. VII is counted as monochrome with modified rims (the underlining secondary incisions not being counted as incised decoration). Not counting secondary underlining incisions allowed for much better typological « lumping », since underlining incisions are part of the modelling rather than independent drawn decorations.

<sup>18</sup> The « mode » represents a technical and particular aspect of decoration or form, such as the use of red paint or of a particular rim shape. The « type » stands for a steady rule of composition, a systematic use of some decorative modes or morphological elements ; such as the systematic use of white and negative beige with zoned white on red (pl. XV).

<sup>19</sup> Type always prevails over Mode : for example, a sherd with white on red on the outside and red on the inside will be classified as « white on red ». In case of double decoration, such as sherds with one decorative type on the inside and another on the outside, a double category considering interior and exterior decoration has to be created (for ex. : sherds with ext. white on red/int. white and negative beige with red).

<sup>20</sup> See Desrayaud 1999<sup>1 & 2</sup>.

the VIII-XV<sup>th</sup> c. A.D). The morphological categories or modes are the result of seriations and comparative groupings according to functional (codified forms supposed to fulfill functional imperatives) or « stylistic » (codified forms supposed to be part of the structural organization of decoration) criteria<sup>21</sup>. The general and diagnostic morphological elements of Vivé's Saladoid are presented in figure 10.

Together with structural morphological elements (such as rims, modified rims, handles, lugs, necks, body inflections, bases and body walls), the modellings have been classified as elements of form. This decision was taken in order not only to simplify counting tables<sup>22</sup>, but also because most of the modellings are part of structural morphological elements (modified rims, handles and lugs, restricted necks...). Only a few cases of isolated nubbins or « adornos »<sup>23</sup> have been recorded so far ; they were counted as separated morphological categories, even though they are likely to represent decorative modes.

### Counting procedure :

After washing, marking, sorting, <sup>mending</sup> ~~sticking~~ and matching, sherds are counted<sup>24</sup> according to spatial zoning and successive artificial levels in correlation with soil stratigraphy and layers of artifacts (see fig. 11-13). The double-entry recording tables were conceived to process the smallest identifiable fragments ; thus counting must concentrate on any identifiable element of a single sherd, that is to say, on all of the distinct morphological and decorative typological categories (**Counting Units**) present on a given sherd. For instance, one single sherd made of purple zoned incised rim, purple and beige-grey body inflection and lower body and a flat purple base (pl. XVa) will be recorded as follows (for polished beige-grey fabrics) :

Counting Units	(rim) C1.0	body inflection	(body sherd) straight	(base) flat
purple incised rim	1	0	0	0
purple & beige	0	1	1	0
purple	0	0	0	1

<sup>21</sup> Fig. 4 : for instance, C2.b rims are more likely to respond to a need for easily pouring liquid (see note <sup>15</sup>) ; whereas C2.c rims more likely respond to decorative purposes, the flanges usually being used for supporting decorative patterns (pl. V) or representing the limbs of an animal or figure (pl. XI, Petitjean Roget 1975 : 27, 30 & 31 and « *Archéologie Martinique...* » 1991 : 75[C50]).

<sup>22</sup> In order not to multiply sorting decorative entries of tables out of proportion.

<sup>23</sup> Here the term « adorno » is used for modellings in the round, usually cephalomorphic and/or zoomorphic (pl. X right, XIII right and XXa), and « nubbin » for round appliquéd clay pellets (usually underlined by an incision and punctuated) that usually stand for iconographic elements (such as eyes, nostrils, crests, ears...pl. I, IV, V, VII-XI, XIII, XVIII-XX) ; not to be confused with larger or wider appliquéd modellings that can be underlined by secondary incisions and bear incised patterns, usually for modified rims, pl. X right, XIX : hairdo, head-dress and/or ear-pendants around a face, composed of nubbins and incised appliquéd modellings. There are some examples of isolated adornos on the body of containers (« *Archéologie Martinique...* » 1991 : 63, zoomorphic head) and of isolated nubbins on rims (pers. com. A. Berthé).

<sup>24</sup> See fig. 8 : example of laboratory manual recording sheet.

Categories of indeterminate units had to be created in order to classify hardly identifiable or confusing sherds (such as indeterminate « cylindrical bases », see fig. 7 bottom right).

The purpose of double-entry counting tables<sup>25</sup> is to obtain decorative and morphological frequencies (both numerary and weight %) and to assess the « Minimal Number of Individual » pots and objects for each typological category characterizing a given ceramic assemblage.

As already said, the table-entries are still provisory and will have to be completed in the light of further studies. The typo-morphological methodology presented does not take into consideration neither iconographic (symbolical figurative and abstract patterns), nor technological (manufacture analysis and traceology) or taphonomical (fracturation ratio and conservation<sup>26</sup>) data. Those perspectives should be dealt with ulteriorly.

### **Perspectives :**

Given the abundancy and stylistic wealth of Saladoid ceramics and, in contrast, scarcity of reliable data concerning it for the Lesser Antilles<sup>27</sup>, for the present being, perspectives appear unlimited. In the short term, the typo-morphological treatment of sherds is aimed at establishing a chronological ceramic sequence and obtaining an overall view of ceramic assemblages. In the long run, it shall enable us to integrate fragmentary materials (which constitute the overwhelming bulk of antillean excavation by-products) into whole pots and objects studies (icono-morphological<sup>28</sup>, functional, contextual...) as well as spatial analysis of habitats.

Ceramics is without any doubt one of the main keys toward anthropological archaeology in the Lesser Antilles, and it is bound to become one of the major themes in forthcoming years ; for it represents the nearly only surviving legacy of the forgone precolumbian cultures of the Windward Islands.

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<sup>25</sup> Tables realized with *Microsoft Excel 5.0* software. See fig. 8-10.

<sup>26</sup> Except for the percentage of eroded sherds.

<sup>27</sup> For Venezuela see Vargas Arenas 1979 and for Puerto Rico see Roe 1989.

<sup>28</sup> See plates and back-cover...

## REFERENCES

**ALLAIRE, Louis,**

\*1977 : « Later Prehistory in Martinique and the Island Caribs : Problems in ethnic identification. », Ph. D., Yale University, U.S.A (unpublished).

« Archéologie Martinique. Musée Départemental d'Archéologie, Fort de France. »

\*1991 : Guide des collections. Conseil Général de la Martinique. Gondwana Editions, Trinité, Martinique.

**BALFET, Hélène, FAUVET-BERTHELOT, Marie-France & MONZON, Suzana,**

\*1992 : « Normas para la descripción de vasijas cerámicas. », première édition en Espagnol. Première édition en Français 1983 (C.N.R.S). C.E.M.C.A México.

**BAUDEZ, Claude F., BORGNINO, Nathalie, LALIGNANT, Sophie & LAUTHELIN, Valérie,**

\*1993 : « Investigaciones arqueológicas en el Delta del Diquís (Costa Rica). », C.E.M.C.A México.

**BELHACHE, Philippe, HUBAU, Martine, PLATEL, Nicole, NEY, Claude, CHAPOULIE, Rémy & SCHVOERER, Max,**

\*1991 : « Le dégraissant des céramiques précolombiennes de la Martinique : Méthodologie. » : 1-10 in Proceedings of the XIV<sup>th</sup> Congress of the International Association for Caribbean Archaeology, Dover Convention Center, Barbados W.I, 22-28 July 1991. Alissandra Cummins & Philippa Kings eds., Barbados Museum and Historical Society.

**DESRAYAUD, Gilles,**

\*1999<sup>1</sup> : « Construction de la Sous-Préfecture. Opération de fouille d'évaluation, Saint-Pierre de la Martinique 97225 107 AH/P. Vol. II : Etude préliminaire du matériel céramique précolombien. », A.F.A.N/S.R.A Martinique, Fort-de-France (unpublished).

\*1999<sup>2</sup> (with the collaboration of Julio Bendezú Sarmiento) : « Saint-Pierre de la Martinique 97225 105 AH/P, sauvetage urgent du 15 au 17/04/1998. Construction de logements sociaux, rue Pesset. Archéologie Précolombienne. », A.F.A.N/S.R.A Martinique, Fort-de-France (unpublished).

**DUVAL, David Timothy,**

\*1996 : « Saladoid Archaeology on Saint Vincent, West Indies. Results of the 1993/94 University of Manitoba Survey. », Master of Arts Degree. Department of Anthropology, University of Manitoba, Winnipeg, Canada. UMI Dissertation Services, Ann Harbor, Michigan.

**GARDIN, Jean-Claude avec la collaboration de J. CHEVALIER, J. CHRISTOPHE & M.R. SALOME,**

\*1976 : « Code pour l'analyse des formes des poteries. », C.R.A.A.D. Editions du C.N.R.S, Paris.

## REFERENCES

**GIRAUD, Jean-Pierre & VIDAL, Nathalie avec la collaboration de Benoît BERARD,**

\*1996 : « Le site précolombien de Vivé. Le Lorrain 97214 001 AP, Martinique. Rapport de sondage 1996. », S.R.A Martinique, Fort-de-France (unpublished).

\*1997 : « Le site précolombien de Vivé. Le Lorrain 97214 001 AP, Martinique. Rapport de fouille 1997. », S.R.A Martinique, Fort-de-France (unpublished).

**GIRAUD, Jean-Pierre, VIDAL, Nathalie & BERARD, Benoît avec la collaboration de Gilles DESRAYAUD,**

\*1998 : « Le site précolombien de Vivé. Le Lorrain 97214 001 AP, Martinique. Rapport de fouille intermédiaire 1998 (autorisation 1998-1999). », S.R.A Martinique, Fort-de-France (unpublished).

**MATTIONI, Mario,**

\*1979 : « Salvage Excavations at the Vivé Site, Martinique. Final Report. », University of Manitoba Anthropology Papers n°23. Translated, edited and with a foreword by Louis Allaire. Department of Anthropology, University of Manitoba, Winnipeg, Manitoba, Canada R3T 2N2.

**MEGGERS, Betty J.,**

\*1968 : « Theory and Purpose of Ceramic Analysis. » : 9-20 in Proceedings of the II<sup>nd</sup> International Congress for the Study of Pre-Columbian Cultures in the Lesser Antilles. St. Ann's Garrison, Barbados, 24-28 July 1967. Barbados Museum, Barbade.

**ORTON, Clive, TYERS, Paul & VINCE, Alan,**

\*1995 : « Pottery in Archaeology. », Cambridge Manuals in Archaeology, first edition 1993. Cambridge University Press, U.K.

**PETITJEAN ROGET, Henri,**

\*1975 : « Contribution à l'étude de la préhistoire des Petites Antilles. » vol. II (illustrations). Ecole Pratique des Hautes Etudes, VI<sup>ème</sup> section Sciences Economiques et Sociales, Paris (unpublished).

**RICE, P.M.,**

\*1987 : « Pottery Analysis : a sourcebook. », University of Chicago Press.

**ROE, Peter G.,**

\*1989 : « A Grammatical Analysis of Cedrosan Saladoid Vessel Form Categories and Surface Decoration : Aesthetic and Technical Styles in Early Antillean Ceramics. » : 267-382 in « Early Population Lifeways and Adaptive Strategies in the Caribbean. », Peter E. Siegel ed., B.A.R International Series n°506, Oxford, U.K.

**ROUSE, Irving,**

\*1992 : « The Tainos. Rise and Decline of the People Who Greeted Columbus. », Yale University Press, New Haven & London.

**SHEPARD, A.O.,**

\*1956 : « Ceramics for the archaeologist. », Carnegie Institute of Washington D.C.

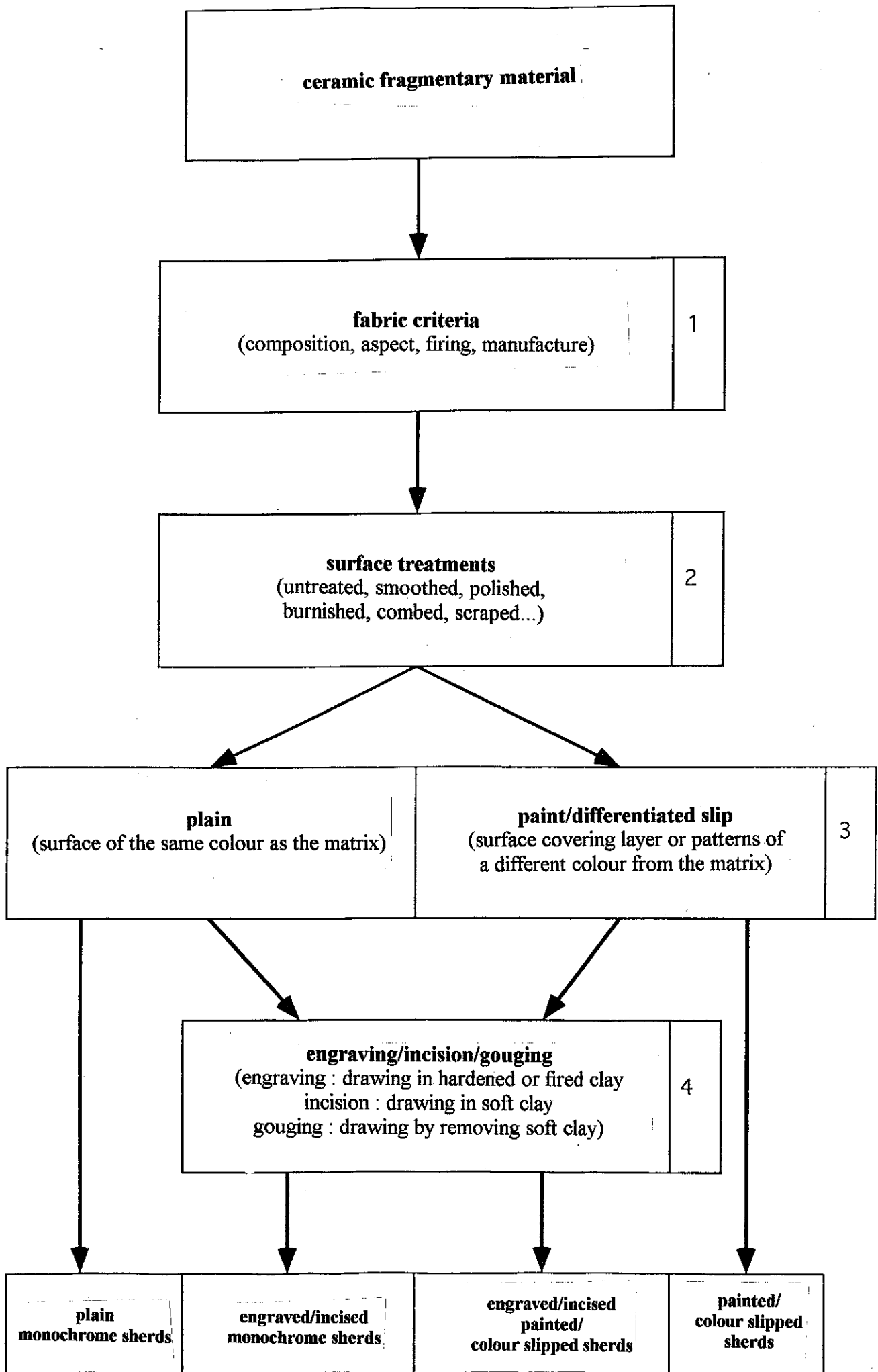
**VARGAS ARENAS, Iraida,**

\*1979 : « La Tradición Saladoide del Oriente de Venezuela. La Fase Cuartel. », Biblioteca de la Academia Nacional de la Historia, Serie Estudios, Monografias y Ensayos n°5. Caracas.

## REFERENCES

**WALTER, Véronique,**

\*1991 : « Analyses pétrographiques et minéralogiques de céramiques précolombiennes de Martinique. » : 11-54 in Caribena n°1, cahiers d'études américanistes de la Caraïbe, documents pour les sciences de l'homme et de la terre. Sous le patronage du Ministère de la Culture, de la Communication et des Grands Travaux et des Conseils Régional et Général de la Martinique. Edité par le C.E.R.A Martinique. Gondwana Editions, Trinité, Martinique.

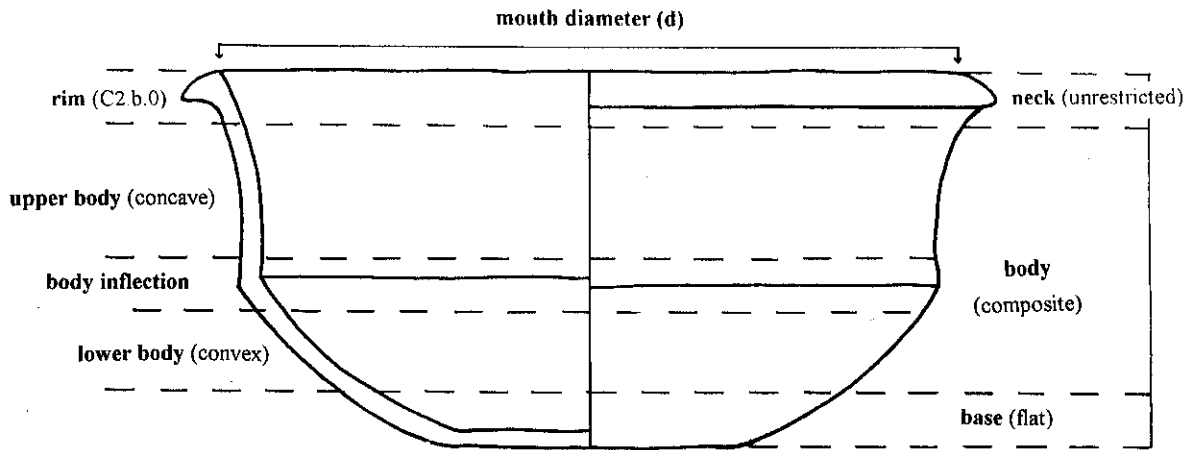


**Figure 1 : Theoretical successive steps of sorting according to decorative criteria.**

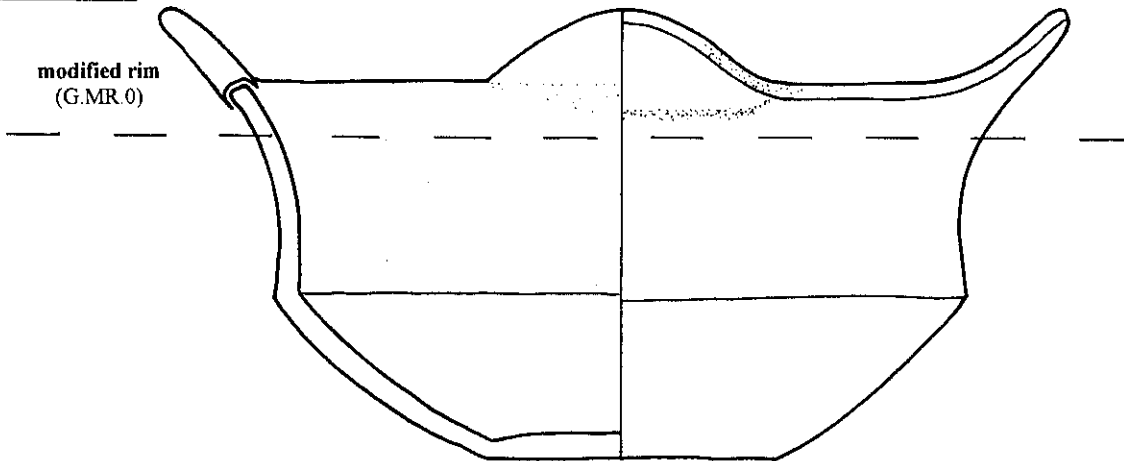
1		2		3	4	exterior		interior	
<p><b>BEIGE-GREY FABRICS</b></p> <p><u>Manufacture</u> : Coiling, slab-building, hand-modelling.  <u>Non-plastic inclusions</u> : Fine grained (&lt;1 mm) black, white and transparent minerals.  <u>Temper</u> : Sometimes crushed pottery or coloured stone fragments (grains ≥1 mm). Most often for thick-walled ceramics (&gt;7 mm ; gen. griddles and cylinders).</p>		<p><b>BEIGE-GREY polished</b></p> <p><u>Surface</u> :            -colour : See matrix. Quite often exterior reduced and interior oxydized.            -Treatments : Polished and most often burnished exterior and interior.</p>		<p>paint/differentiated slip (P)</p>	<p>P</p>	a	-red	-plain/black/corroded/red/red & plain	
						a'	-plain, red & plain	-red	
<p><b>BEIGE-GREY with coarse interior</b></p> <p><u>Surface</u> :            -colour : See matrix. Usually interior reduced.            -treatments : Polished and most often burnished exterior. Interior usually left untreated or only slightly smoothed (characteristic of restricted vessels which interior is not visible).</p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	b	-red & plain	-plain/black/corroded/red/red & plain	
						b'	-plain	-red & plain	
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	c	-white	-plain/black/corroded/white	
						c'	-plain	-white	
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	d	-white on red (covering red with zoned white)	-plain/black/corroded/red/red & plain	
						e	-white & red with negative plain (covering white and negative patterns with zoned red)	-plain/black/corroded/red/red & plain -white/plain/red (streaks)	
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	f	-red with white streaks (covering red with white streaks ≤ 5 mm)	-plain/black/corroded/red/red & plain	
						g	-red/pple & black (covering red/purple with black streaks ≤ 5 mm)	-plain/black/corroded/red/red & plain	
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	h	-brown-red slip (beige-grey matrix with brown-red surface)	-brown-red slip...	
						ia	-red incised (covering red with incised patterns)	-plain/black/corroded/red/red & plain	
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	ib	-plain/red/red & plain	-incised red interior lip	
						if	-incised red interior lip	-plain/red/red & plain	
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	ih	-red with incised white streaks (covering red with incised white streaks ≤ 5 mm)	-plain/black/corroded/red/red & plain	
						ih'	-same as ia, ib & if with purple instead of red.		
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	ii	-bichrome zoned incised (zoned red/purple and white/plain underlined by incisions)	-plain/black/corroded/red/red & plain	
						ih	-incised brown-red slip (same as h with incisions, usually filled with red/purple pigment)		
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	jb'	-z.i.c with red/purple	-z.i.c with red/purple	
						jb	-plain/red-pple/red-pple & plain	plain/red-pple/red-pple & plain	
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		<p>engraving/incision (e/i)+P</p>	<p>e/i+P</p>	j	-z.i.c	-z.i.c	
						k	-plain	plain	
<p><b>BEIGE-GREY with coarse interior</b></p>		<p><b>BEIGE-GREY with coarse interior</b></p>		monoch. (M)	M	-plain monochrome (usually exterior reduced and interior oxydized)			

**Figure 2 : Example of decorative typological sorting for beige-grey fabrics.**

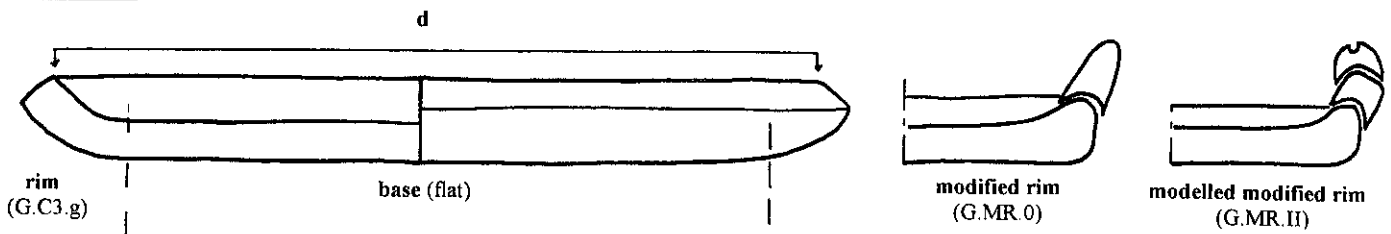
**General criteria :**



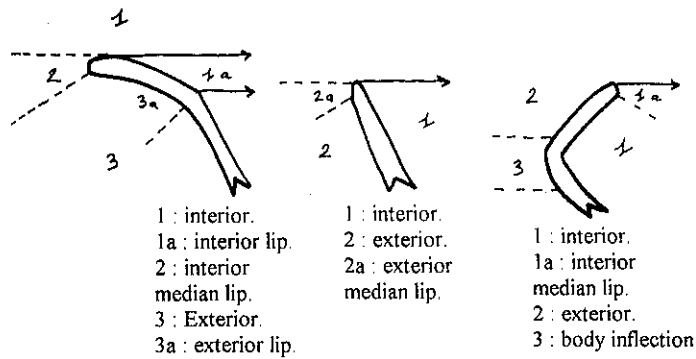
**Modified Rims ( MR) :**



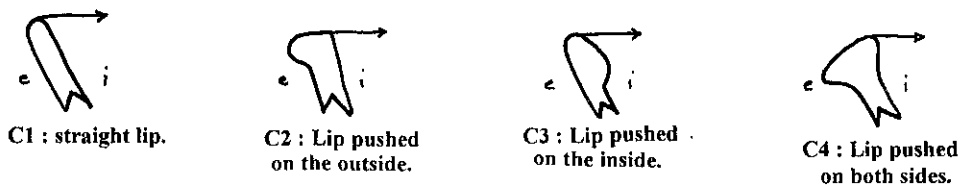
**Griddles (G) :**



**Rims :**







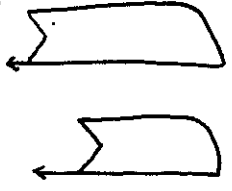

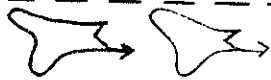
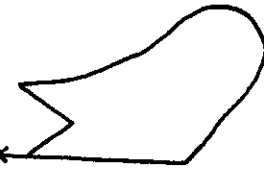

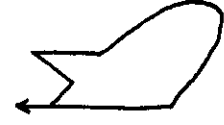
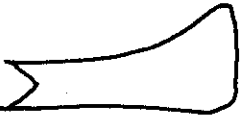
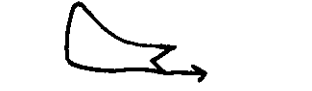

**Rim Categories (C) :**



**Figure 3 : Morphological criteria.**

<b>Rim modes (sub-categories) (not to scale)</b>			
<b>C1</b>		<b>C3</b>	<b>C4</b>
<p><b>C1.0 : Simple straight lip</b> (round or square section)</p>	<p><b>C2.0 : Indeterminate pushed out exterior lip.</b></p>	<p><b>C3.0 : Indeterminate pushed out interior lip.</b></p>	<p><b>C4.a.0 : « T-shaped » lip</b> (ext. lip &gt; int. lip).</p>
<p><b>C1.a : Bevelled lip</b> (bevelled inside or outside median lip)</p>	<p><b>C2.a : Square exterior lip.</b></p>	<p><b>C3.a : Swollen int. lip.</b></p>	<p><b>C4.a.1 : « T-shaped »</b> with convex ext. flange.</p>
<p><b>C1.b : Indented lip.</b></p>	<p><b>C2.b.0 : Tapered ext. lip.</b></p>	<p><b>C3.b : « Lanceolate » int. lip.</b></p>	<p><b>C4.a.2 : « T-shaped »</b> with int. flange (int. &gt;= ext. lip)</p>
<p><b>C2</b></p>	<p><b>C2.c.1 : Convex flanged ext. lip.</b></p>	<p><b>C3.c : Rounded int. lip.</b></p>	<p><b>C4.a.3 : Triangular « T-shaped ».</b></p>
<p><b>C2.a : Square exterior lip.</b></p>	<p><b>C2.c.2 : « hog-backed » flanged ext. lip.</b></p>	<p><b>C3.d : Triangular int. lip.</b></p>	<p><b>C4.b.0 : « Y-shaped » lip.</b></p>
<p><b>C2.b.o : Tapered ext. lip.</b></p>	<p><b>C2.c.3 : Complex flanged ext. lip.</b></p>	<p><b>C3.e : Flanged int. lip.</b></p>	<p><b>C4.b.1 : « Y-shaped »</b> with ext. flange.</p>
<p><b>C2.b.1 : « Fleur de lis » ext. lip.</b></p>	<p><b>C2.c.4 : Dipping flanged ext. lip.</b></p>	<p><b>C3.f : Composite int. lip.</b></p>	<p><b>C4.b.2 : « Y-shaped »</b> with int. flange.</p>
	<p><b>C2.d : « Lanceolate » ext. lip.</b></p>	<p><b>C3.g : Complex int. lip.</b></p>	<p><b>C4.c : Complex flanged rim.</b></p>
	<p><b>C2.e : Swollen ext. lip.</b></p>		


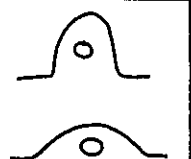
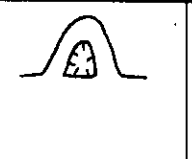





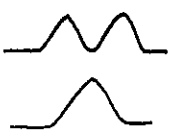


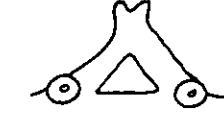
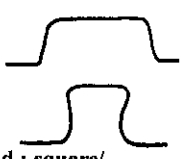


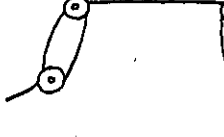





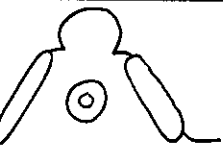
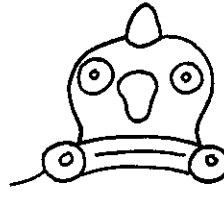
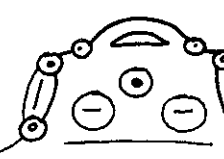
**Figure 4 : Morphological criteria.**

Griddle rim modes* (not to scale) :			
G.C1	G.C2	G.C3	G.C4
 <p>G.C1.0 : Straight lip.</p>	 <p>G.C2.0 : Indeterminate pushed out ext. lip.</p>	 <p>G.C3.0 : Indeterminate pushed out int. lip.</p>	 <p>G.C4.a.0 : « T-shaped » lip (ext.&gt;int. lip ; gen. footed griddles)</p>
 <p>G.C1.a : Bevelled lip.</p>		 <p>G.C4.a.2 : « T-shaped » with int. flange (int.&gt;=ext. lip).</p>	 <p>G.C4.b.0 : « Y-shaped » lip.</p>
		 <p>G.C3.c : Rounded int. lip.</p>	 <p>G.C4.b.2 : « Y-shaped » with int. flange.</p>
		 <p>G.C3.d : Triangular int. lip.</p>	
		 <p>G.C3.e : Flanged int. lip.</p>	
		 <p>G.C3.g : Complex int. lip.</p>	
		 <p>G.C3.h : Square int. lip.</p>	

\*Griddle rims usually are coarsely treated. Only basic geometrical forms can easily be recognized. Rims with contingent profiles are called « indeterminate » within their category.

**Figure 5 : Morphological criteria.**

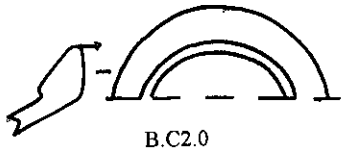
**Rim lugs/Modified Rims (MR)**

0 : simple				modelled							
1 : full	2 : pierced	3 : caved	4 : hollow	I : simple				II : with nubbins			
				1	2	3	4	1	2	3	4
 a : rounded				 ex. : MR.I.a.2				 ex. : MR.II.a.4			
 b : round											
 c : triangular								 ex. : MR.II.c.4			
 d : square/ rectangular				 ex. : MR.I.d.1				 ex. : MR.II.d.1			
 e : « M-shaped »				 ex. : MR.I.e.2							
 f : complex*				 ex. : MR.I.f.2							
				anthropo-zoomorphic				 g : modelled lugs (adornos)			
								 h : modelled MR			

\*Using several basic geometrical shapes.  
In that case : rectangular + round.

**Figure 6 : Morphological criteria.**

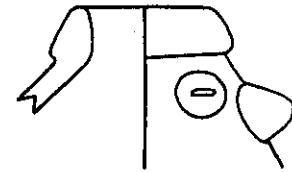
**« Bottle » necks (B) :**



B.C2.0

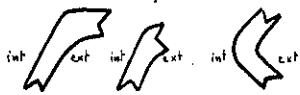


B.C2.d

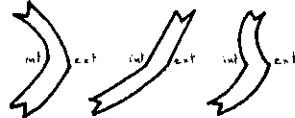


B.C2.0 modelled

**Inflections :**



reentrant  
(rims, necks)



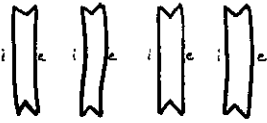
(body inflections)

salient

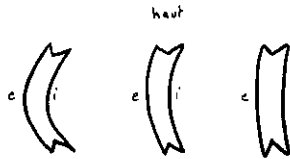


(bases)

**Body sherds :**



straight



convex  
(usually lower body)

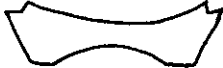


concave  
(usually upper body)

**Bases :**



convex



concave



flat



annular

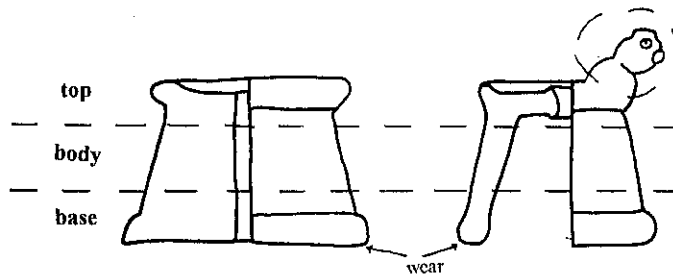


pedestal



leg/stand

**Cylinders :**



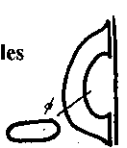
top  
body  
base

top modelling  
(adorno, handle, « modified rim »)

wear

**Appendages :**

**Handles**



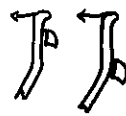
vertical ribbon



vertical round



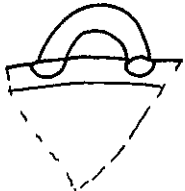
loop



body lug



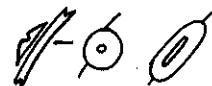
modelled



horizontal  
round



indet. adornos

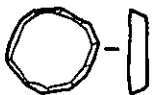


indet. nubbins



vertical half-moon  
(with or without modelling)

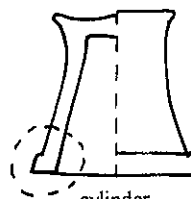
**Miscellaneous :**



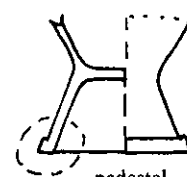
modified sherds



spindle whorl



cylinder



pedestal

cylindrical bases

**Figure 7 : Morphological criteria.**

Id	MORPHOLOGIES	PLATINES											CYLINDRES				ADDITIONS							DIVERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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1	
MANUFACTURE DECORATION	
DECORATION	FABRIC
RED	Beige-Gray polished
	B.G coarse int.
	Brown-Orange
RED & PLAIN	B.G polished
	B.G coarse int.
WHITE	B-O
	B.G polished
	B.G coarse int.
PURPLE	B-O
	B.G polished
	B.G coarse int.
PPLE & PLAIN	B-O
	B.G polished
	B.G coarse int.
BLACK on RED	B-O
	B.G polished
	B.G coarse int.
WHITE on RED	B-O
	B.G polished
	B.G coarse int.
WHITE on PPLE	B-O
	B.G polished
	B.G coarse int.
NEGATIVE PLAIN and WHITE and RED	B-O
	B.G polished
	B.G coarse int.
NEGATIVE PLAIN and WHITE and PURPLE	B-O
	B.G polished
	B.G coarse int.
RED with WHITE STREAKS	B-O
	B.G polished
	B.G coarse int.
PURPLE with WHITE STREAKS	B-O
	B.G polished
	B.G coarse int.
RED with INCISED WHITE STREAKS	B-O
	B.G polished
	B.G coarse int.
PURPLE with INCISED WHITE STREAKS	B-O
	B.G polished
	B.G coarse int.
RED INCISED	B-O
	B.G polished
	B.G coarse int.
PURPLE INCISED	B-O
	B.G polished
	B.G coarse int.
RED Incised Lip and PLAIN	B-O
	B.G polished
	B.G coarse int.
PURPLE Incised Lip and PLAIN	B-O
	B.G polished
	B.G coarse int.
BICHROME ZONED INCISED	B-O
	B.G polished
	B.G coarse int.
Engraved/Incised & Red/Purple	B-O
	B.G polished
	B.G coarse int.
Incised BROWN-RED Slip	B-O
	B.G polished
	B.G coarse int.
Engraved/Incised	B-O
	B.G polished
	B.G coarse int.
Incised	B-O
	B.G polished
	B.G coarse int.
BROWN-RED Slip	B-O
	B.G polished
	B.G coarse int.
PLAIN	B-O
	B.G polished
	B.G coarse int.
ERODED	B-O
	B.G polished
	B.G coarse int.
others	

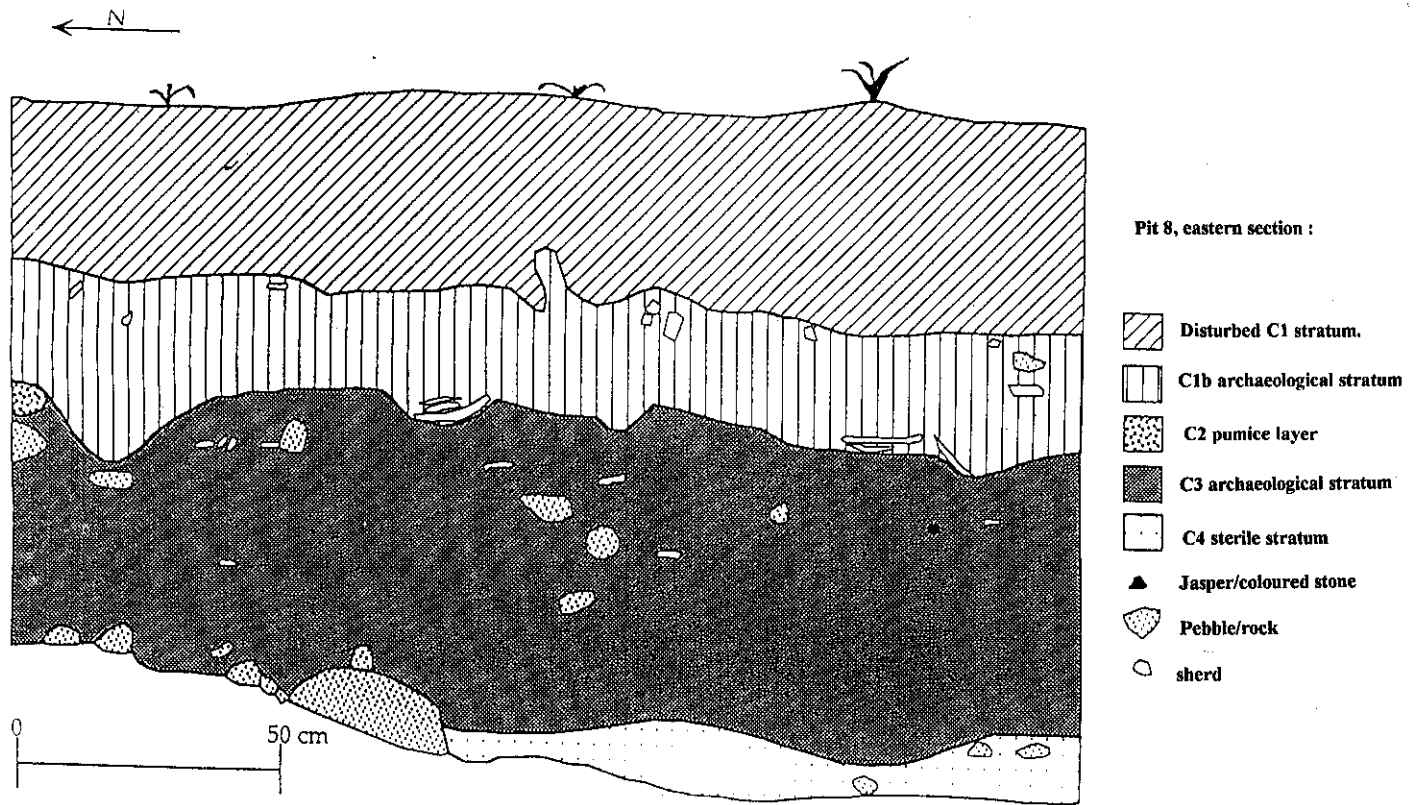
2		
MANUFACTURE DECORATION		
Fab.	Treat.	
POLISHED BEIGE-GRAY	PAINT/DIFFERENTIATED SLIP	Red-Brown Slip
	mono.	Red
BEIGE-GRAY with Coarse Interior	PAINT/DIFFERENTIATED SLIP	Red & Plain
	mono.	White
BROWN-ORANGE	PAINT/DIFFERENTIATED SLIP	Purple
	mono.	Purple & Plain
ERODED	PAINT/DIFFERENTIATED SLIP	White on Red
	mono.	White on purple
others	PAINT/DIFFERENTIATED SLIP	White/Red/Negative Plain
	mono.	White/Pple/Negative Plain
POLISHED BEIGE-GRAY	Engraving/Incision	Black on red
	mono.	Red with White Streaks
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Pple with White Streaks
	mono.	Inc. Red/ White Str.
BROWN-ORANGE	Engraving/Incision	Inc. Pple/ White Str.
	mono.	Incised red
ERODED	Engraving/Incision	Inc. Red Lip & plain
	mono.	Incised Purple
POLISHED BEIGE-GRAY	Engraving/Incision	Inc. Pple Lip & Plain
	mono.	Bichrome Zon. Inc.
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Engr./Inc.-Red/Pple
	mono.	Inc. Brown-Red Slip
BROWN-ORANGE	Engraving/Incision	Engraved/Incised
	mono.	Incised
ERODED	Engraving/Incision	Plain
	mono.	Red-Brown Slip
POLISHED BEIGE-GRAY	Engraving/Incision	Red
	mono.	Red & Plain
BEIGE-GRAY with Coarse Interior	Engraving/Incision	White
	mono.	Purple
BROWN-ORANGE	Engraving/Incision	Purple & Plain
	mono.	White on Red
ERODED	Engraving/Incision	White on purple
	mono.	White/Red/Negative Plain
POLISHED BEIGE-GRAY	Engraving/Incision	White/Pple/Negative Plain
	mono.	Black on red
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Red with White Streaks
	mono.	Pple with White Streaks
BROWN-ORANGE	Engraving/Incision	Inc. Red/ White Str.
	mono.	Inc. Pple/ White Str.
ERODED	Engraving/Incision	Incised red
	mono.	Inc. Red Lip & plain
POLISHED BEIGE-GRAY	Engraving/Incision	Incised Purple
	mono.	Inc. Pple Lip & Plain
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Bichrome Zon. Inc.
	mono.	Engr./Inc.-Red/Pple
BROWN-ORANGE	Engraving/Incision	Inc. Brown-Red Slip
	mono.	Engraved/Incised
ERODED	Engraving/Incision	Incised
	mono.	Plain
POLISHED BEIGE-GRAY	Engraving/Incision	Red-Brown Slip
	mono.	Red
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Red & Plain
	mono.	White
BROWN-ORANGE	Engraving/Incision	Purple
	mono.	Purple & Plain
ERODED	Engraving/Incision	White on Red
	mono.	White on purple
POLISHED BEIGE-GRAY	Engraving/Incision	White/Red/Negative Plain
	mono.	White/Pple/Negative Plain
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Black on red
	mono.	Red with White Streaks
BROWN-ORANGE	Engraving/Incision	Pple with White Streaks
	mono.	Inc. Red/ White Str.
ERODED	Engraving/Incision	Inc. Pple/ White Str.
	mono.	Incised red
POLISHED BEIGE-GRAY	Engraving/Incision	Inc. Red Lip & plain
	mono.	Incised Purple
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Inc. Pple Lip & Plain
	mono.	Bichrome Zon. Inc.
BROWN-ORANGE	Engraving/Incision	Engr./Inc.-Red/Pple
	mono.	Inc. Brown-Red Slip
ERODED	Engraving/Incision	Engraved/Incised
	mono.	Incised
POLISHED BEIGE-GRAY	Engraving/Incision	Plain
	mono.	Eroded Brown-Orange sherds
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Red
	mono.	Red & Plain
BROWN-ORANGE	Engraving/Incision	White
	mono.	Purple
ERODED	Engraving/Incision	Purple & Plain
	mono.	White on Red
POLISHED BEIGE-GRAY	Engraving/Incision	White on purple
	mono.	White/Red/Negative Plain
BEIGE-GRAY with Coarse Interior	Engraving/Incision	White/Pple/Negative Plain
	mono.	Black on red
BROWN-ORANGE	Engraving/Incision	Red with White Streaks
	mono.	Pple with White Streaks
ERODED	Engraving/Incision	Inc. Red/ White Str.
	mono.	Inc. Pple/ White Str.
POLISHED BEIGE-GRAY	Engraving/Incision	Incised red
	mono.	Inc. Red Lip & plain
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Incised Purple
	mono.	Inc. Pple Lip & Plain
BROWN-ORANGE	Engraving/Incision	Bichrome Zon. Inc.
	mono.	Engr./Inc.-Red/Pple
ERODED	Engraving/Incision	Inc. Brown-Red Slip
	mono.	Engraved/Incised
POLISHED BEIGE-GRAY	Engraving/Incision	Incised
	mono.	Plain
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Red-Brown Slip
	mono.	Red
BROWN-ORANGE	Engraving/Incision	Red & Plain
	mono.	White
ERODED	Engraving/Incision	Purple
	mono.	Purple & Plain
POLISHED BEIGE-GRAY	Engraving/Incision	White on Red
	mono.	White on purple
BEIGE-GRAY with Coarse Interior	Engraving/Incision	White/Red/Negative Plain
	mono.	White/Pple/Negative Plain
BROWN-ORANGE	Engraving/Incision	Black on red
	mono.	Red with White Streaks
ERODED	Engraving/Incision	Pple with White Streaks
	mono.	Inc. Red/ White Str.
POLISHED BEIGE-GRAY	Engraving/Incision	Inc. Pple/ White Str.
	mono.	Incised red
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Inc. Red Lip & plain
	mono.	Incised Purple
BROWN-ORANGE	Engraving/Incision	Inc. Pple Lip & Plain
	mono.	Bichrome Zon. Inc.
ERODED	Engraving/Incision	Engr./Inc.-Red/Pple
	mono.	Inc. Brown-Red Slip
POLISHED BEIGE-GRAY	Engraving/Incision	Engraved/Incised
	mono.	Incised
BEIGE-GRAY with Coarse Interior	Engraving/Incision	Plain
	mono.	Eroded Brown-Orange sherds

Figure 9 : Principal decorative criteria for Vivé's Saladoid. Possible ordinate sets of entries for counting tables.

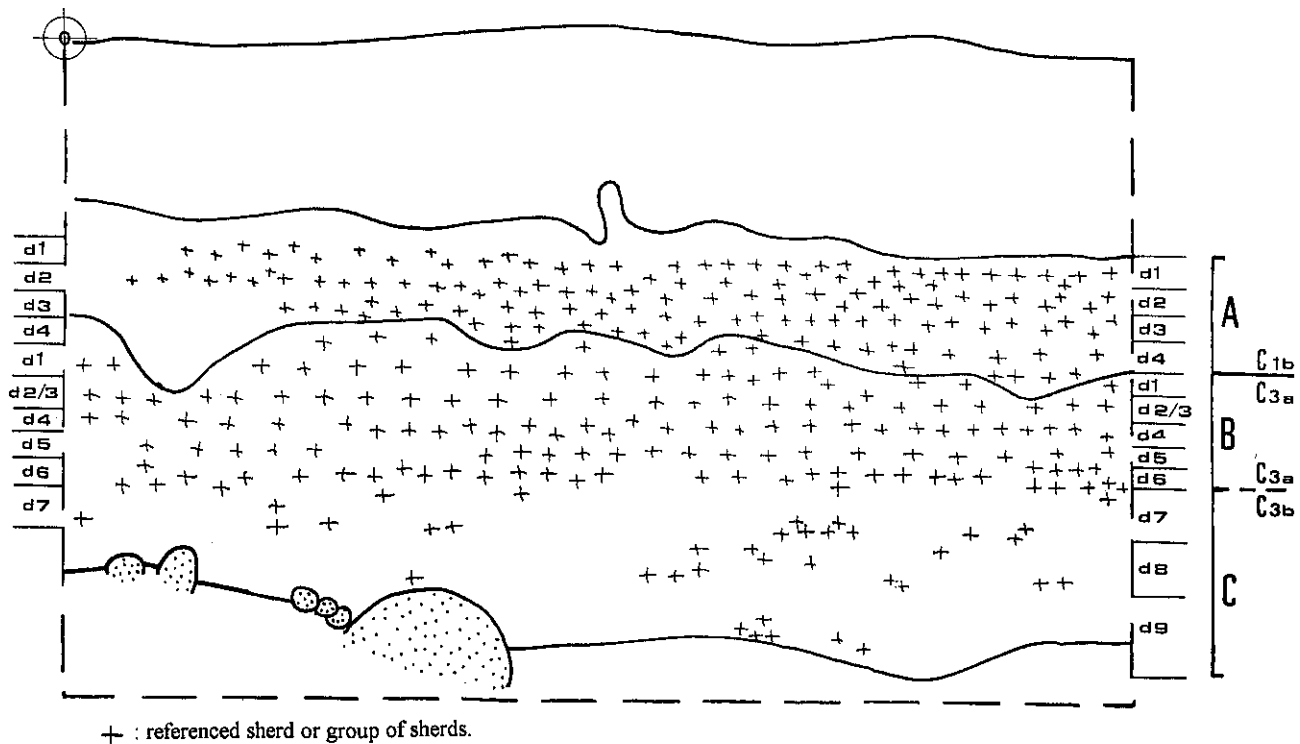
<b>CONTAINERS</b>																													
<b>RIMS</b>										<b>Restricted necks</b>					<b>Modified Rims</b>			<b>Body sherds</b>		<b>BASES</b>									
C1		C2				C3		C4		rim inflections & Indet. rims		C2		Modelled	neck inflections (Indet.)	Modelled		Indet.	straight	convex	concave	body inflections	convex	concave	flat	annular	pedestals	legs & stands	Indet. bases
o	a	o	a	b.o	c.o	c.1	c.2	c.3	c.4	e	o	a	b	a.0	a.1	a.3	c	o	d	e	C2.0 others	o	ll	ll.G					

<b>GRIDDLES</b>										<b>CYLINDERS</b>										<b>APPENDAGES</b>										<b>miscellaneous</b>								
G.C1		G.C3				G.C	G.MR		bases	cylindrical bases	body sherds	top sherds	adornos	modified tops	vertical ribbed		vertical round		handles body lug		vertical meen		helic round		vertical ribbed		vertical round		handles body lug		vertical meen	isolated nubbins	isolated adornos	Indet. cylindrical bases	Indet. modellings	modified sherds	spindle whorls	indeterminate sherds
o	a	o	o	c	e	g	h	Indet.	o	ll																												

**Figure 10 : Principal morphological criteria for Vive's Saladoid. Co-ordinate set of entries for counting table.**



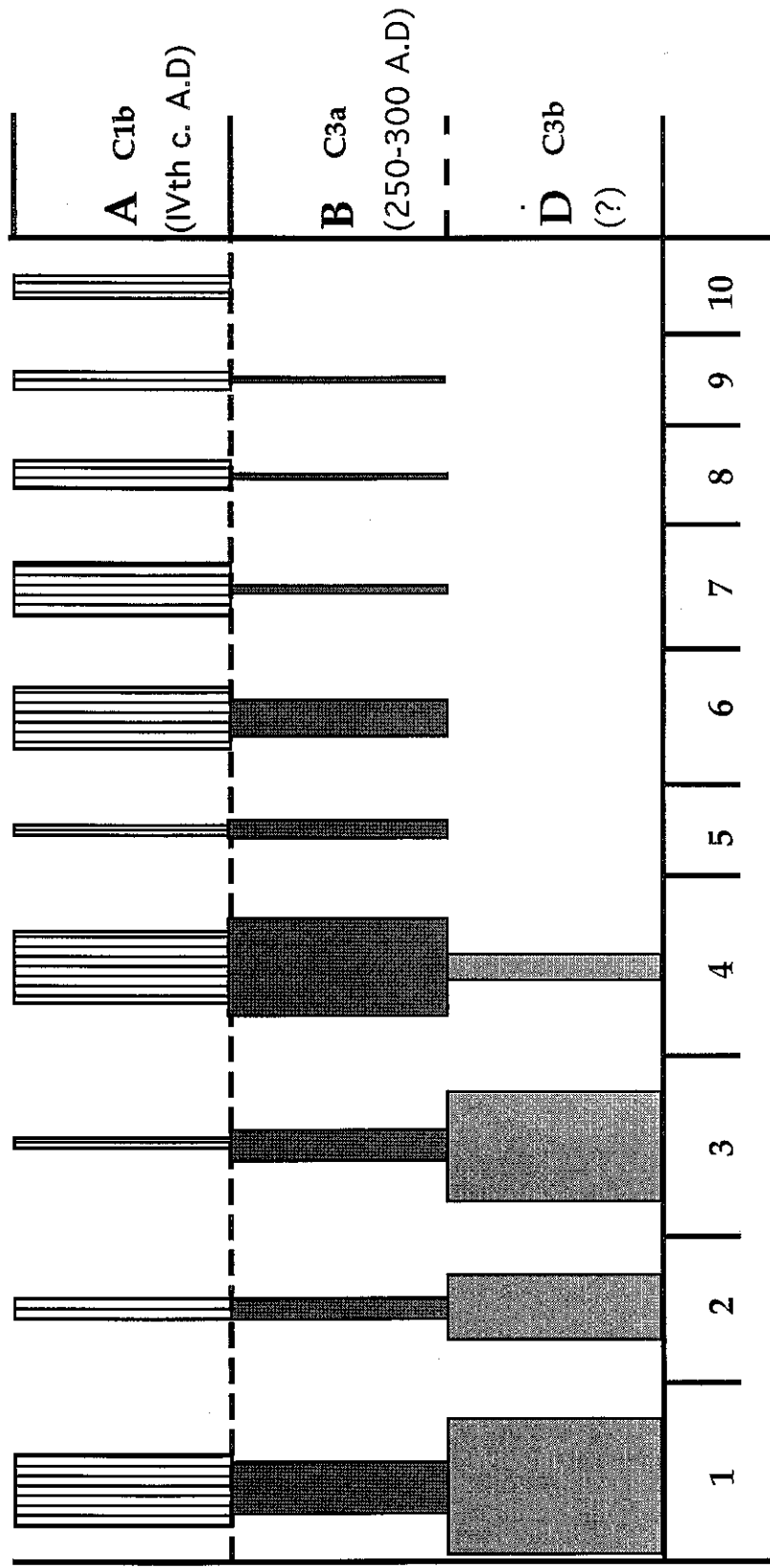
**Figure 11 : Stratigraphic eastern section of Pit 8 (after Giraud *et alii* 1996).**



**Figure 12 : Projection of Pit 8 ceramic artifacts on eastern section.**

Layer A (C1b) : 444 Counting Units/8293 grams ; layer B (C3a) : 311 U.C/5260 grams ;  
 layer C (C 3b) : 83 U.C/1895 grams ; Not-included : C1 stratum disturbed artifacts  
 (64 U.C/ 662 grams) and global sifting (1cm<sup>2</sup> >sherds/1938 grams).  
 (the internal contemporaneity of layers of artifacts was verified by 3-D sticking and matching)

0 20 %



**Figure 13 : Example of seriated numerary frequencies of the main decorative criteria for Pit 8.**  
 1 : Red ; 2 : Red & plain ; 3 : Z.I.C with red/purple ; 4 : White & negative plain with red/purple ; 5 : Incised red lip & plain ; 6 : Red & plain ; 7 : Bichrome zoned incised. ; 8 : Purple ; 9 : White ; 10 : Incised purple lip & plain.

Once the stratigraphy is established (fig. 11 & 12), the differentiated layers of artifacts can be treated statistically (numery & weight % of decorative or morphological criteria).

The data presented above are not representative neither quantitatively nor qualitatively of the whole site ; they only serve a demonstrative purpose.

**PRINCIPAL DECORATIVE TYPES**  
**of VIVE's SALADOID CERAMICS**

## Drawing norms :



**black**



**white**



**red**



**purple**



**orange**



**pink**



**plain**



**soot**



**profile**



**restored profile**



**hypothetical  
profile**



**incision**



**engraving/incision**



**relief  
(modelling,  
erosion...)**

## References of pieces :

(see Giraud *et alii* 1996/97/98)

**VV : Vivé**

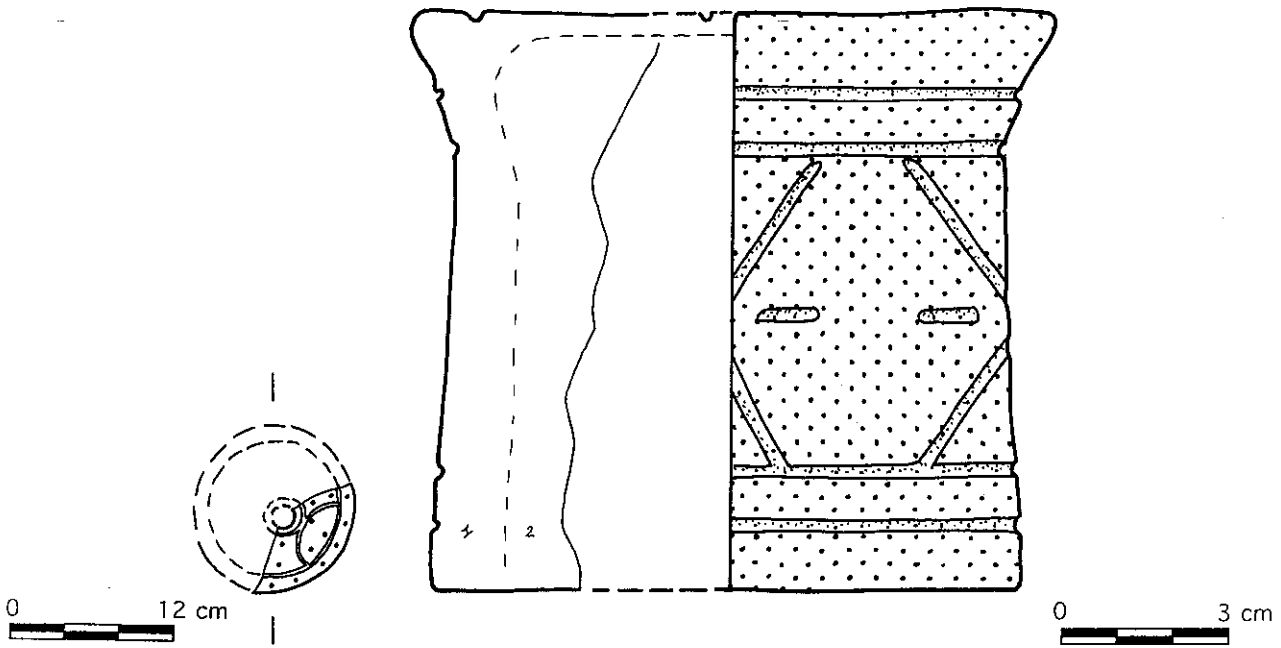
**Z : Area**

**S : Pit**

**C : Stratum**

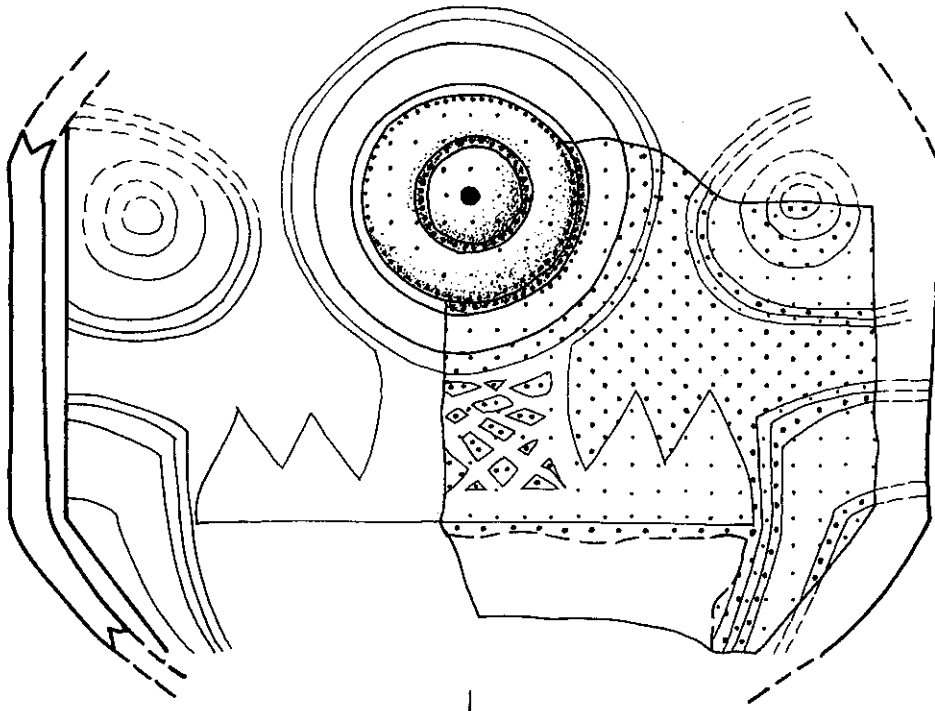
**d : artificial level**

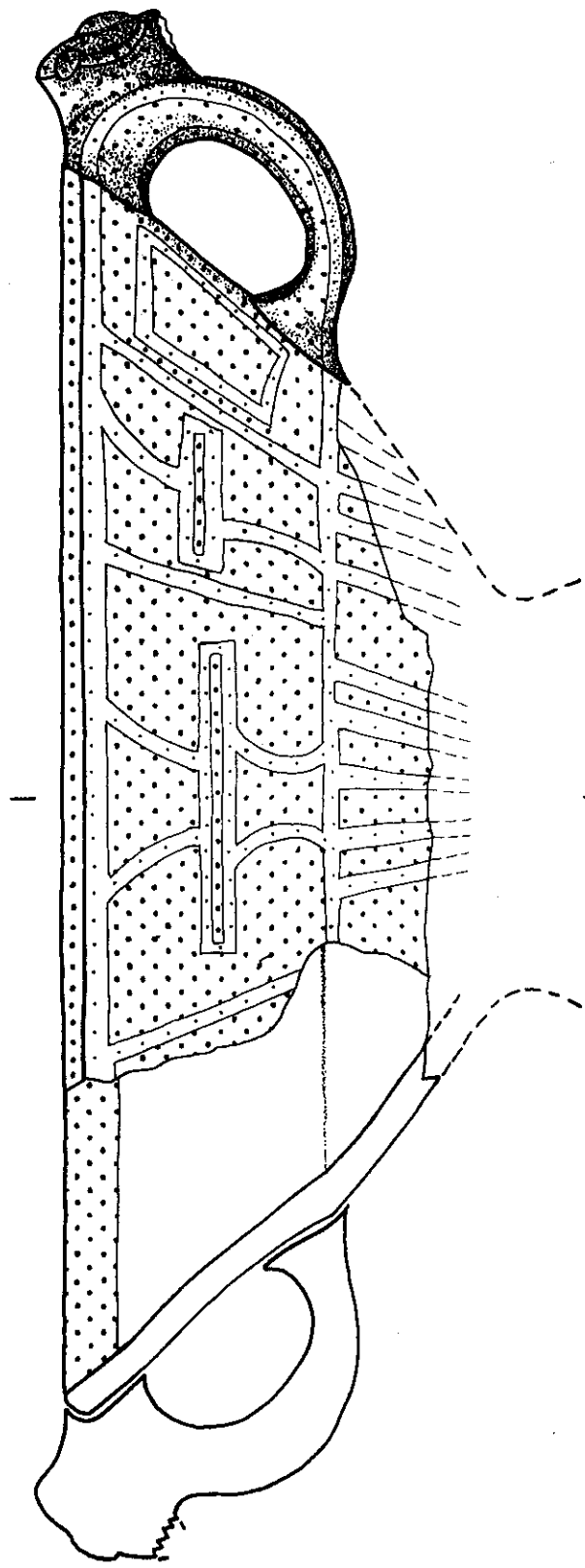
**ex : VV98, Z1, C3, d1= Vivé Site, 1998 campaign, Area 1,  
artificial level #1 of Stratum 3.**



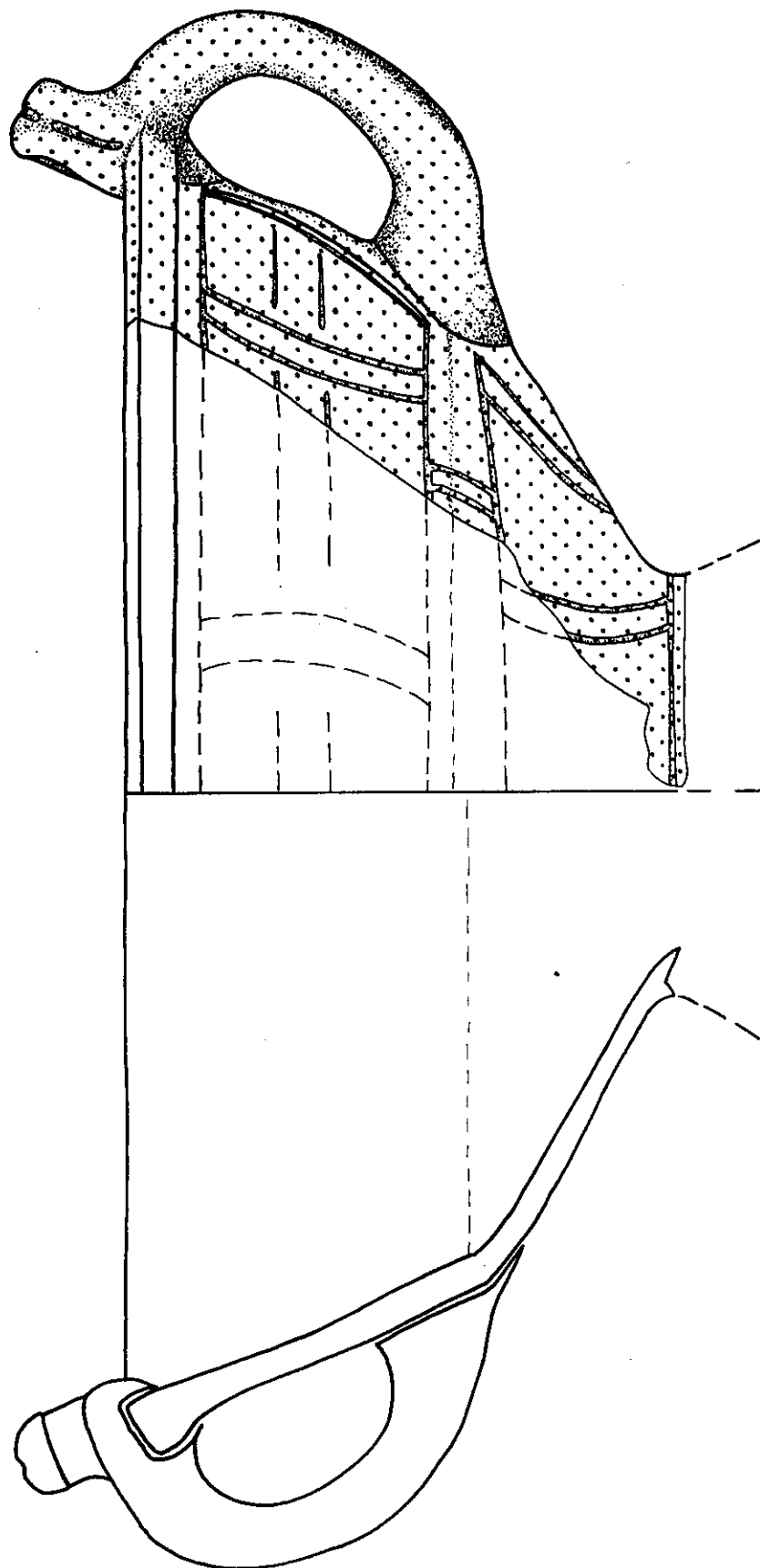
**a : Red with Incised White Streaks Type. Cylinder.**  
 (VV96, S3, C3 ; brown-orange fabric : 1 : compact, 2 friable)

**b : White on Red Type. Bottle ?.**  
 (VV98, S16, C3, d2 ; beige-grey fabric ; approximate orientation)

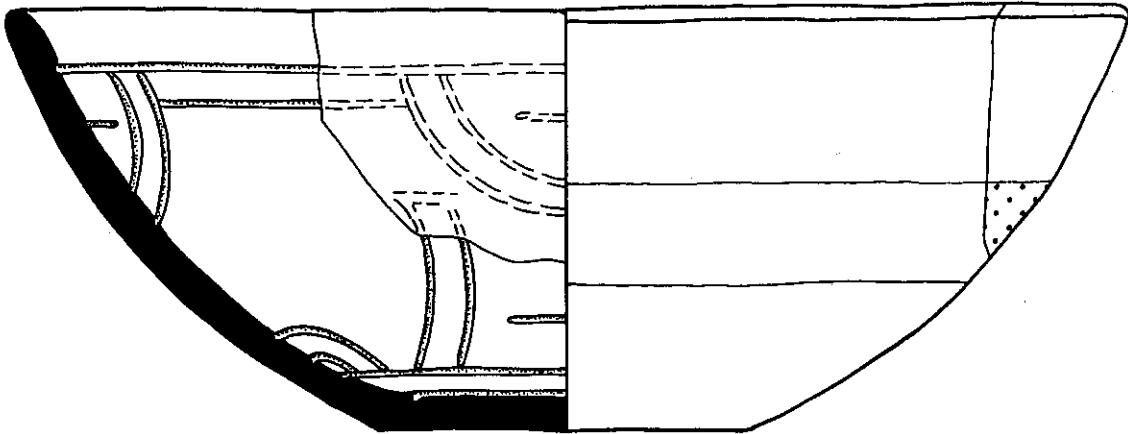




**Plate II : Red with White Streaks Type. Pedestal bowl with handles.**  
**(VV98, Z1, C3, d2 ; beige-grey fabric)**



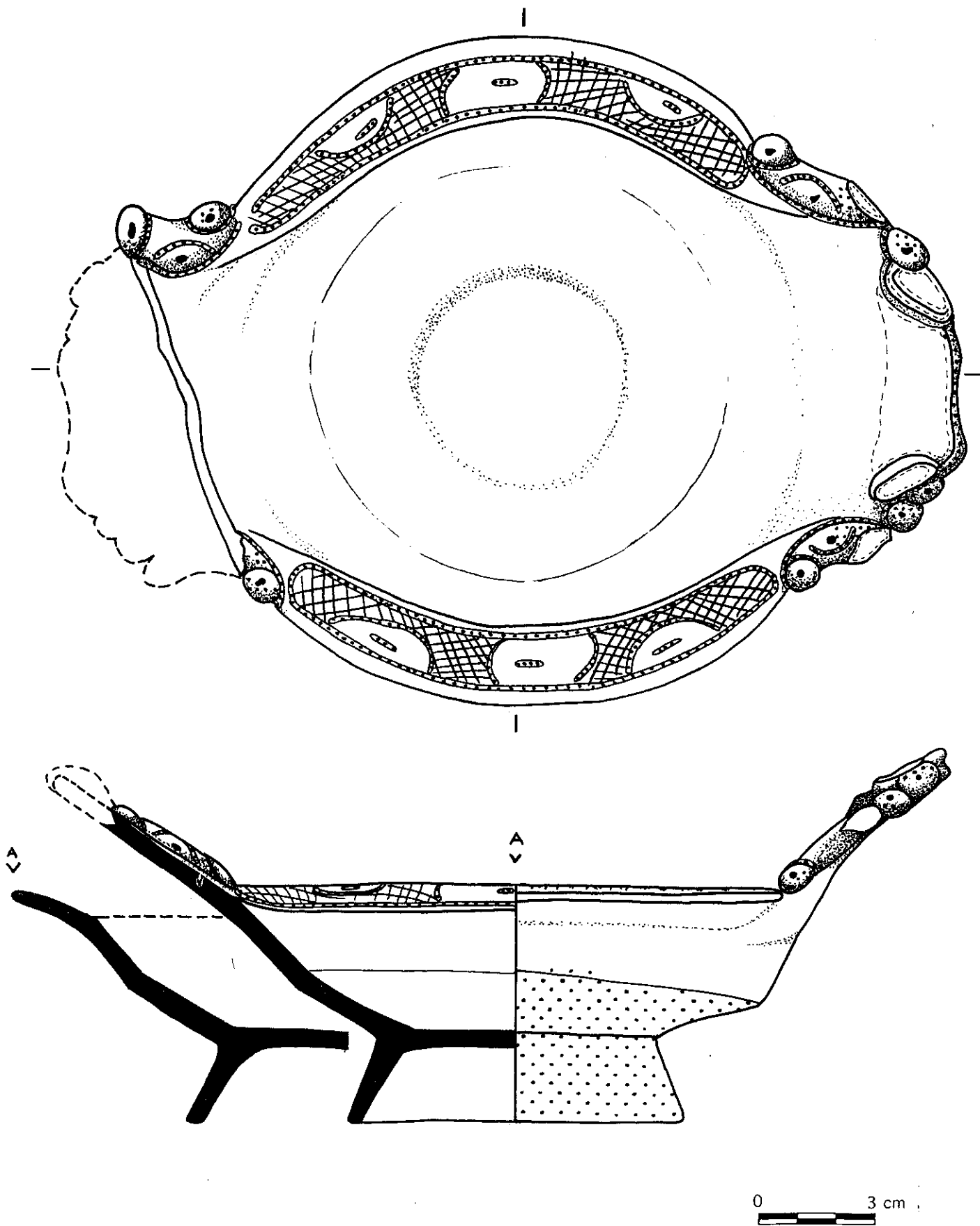
**Plate III : Incised Red Type. Pedestal bowl with handles.**  
(VV98, Z1, C3, d2 ; beige-grey fabric)



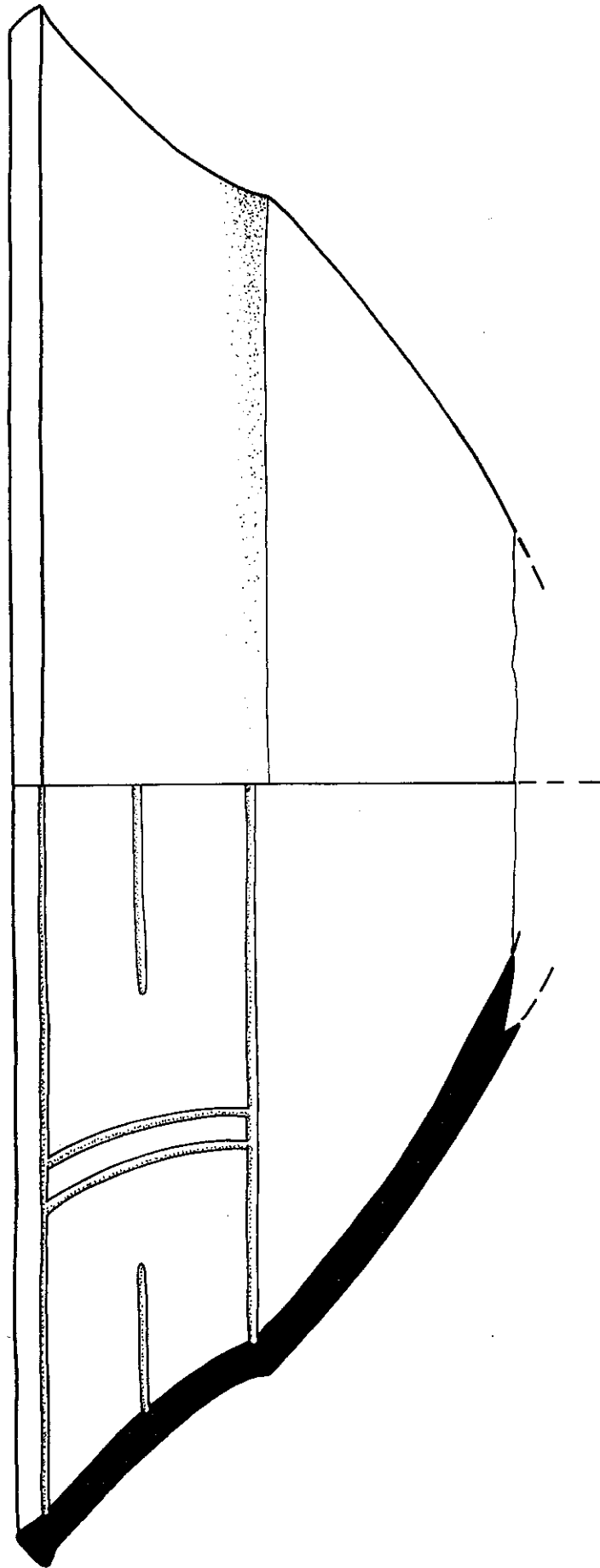
**a : Beige-Grey Engraved/Incised Type, Incised with Red Variety. Bowl.**  
**(VV98, Z1, C3, d1/2 ; beige-grey fabric)**



**b : Beige-Grey Engraved/Incised Type, Z.I.C Variety. Pedestal (?) bowl with handles.**  
**(VV98, Z1, C3, d1)**

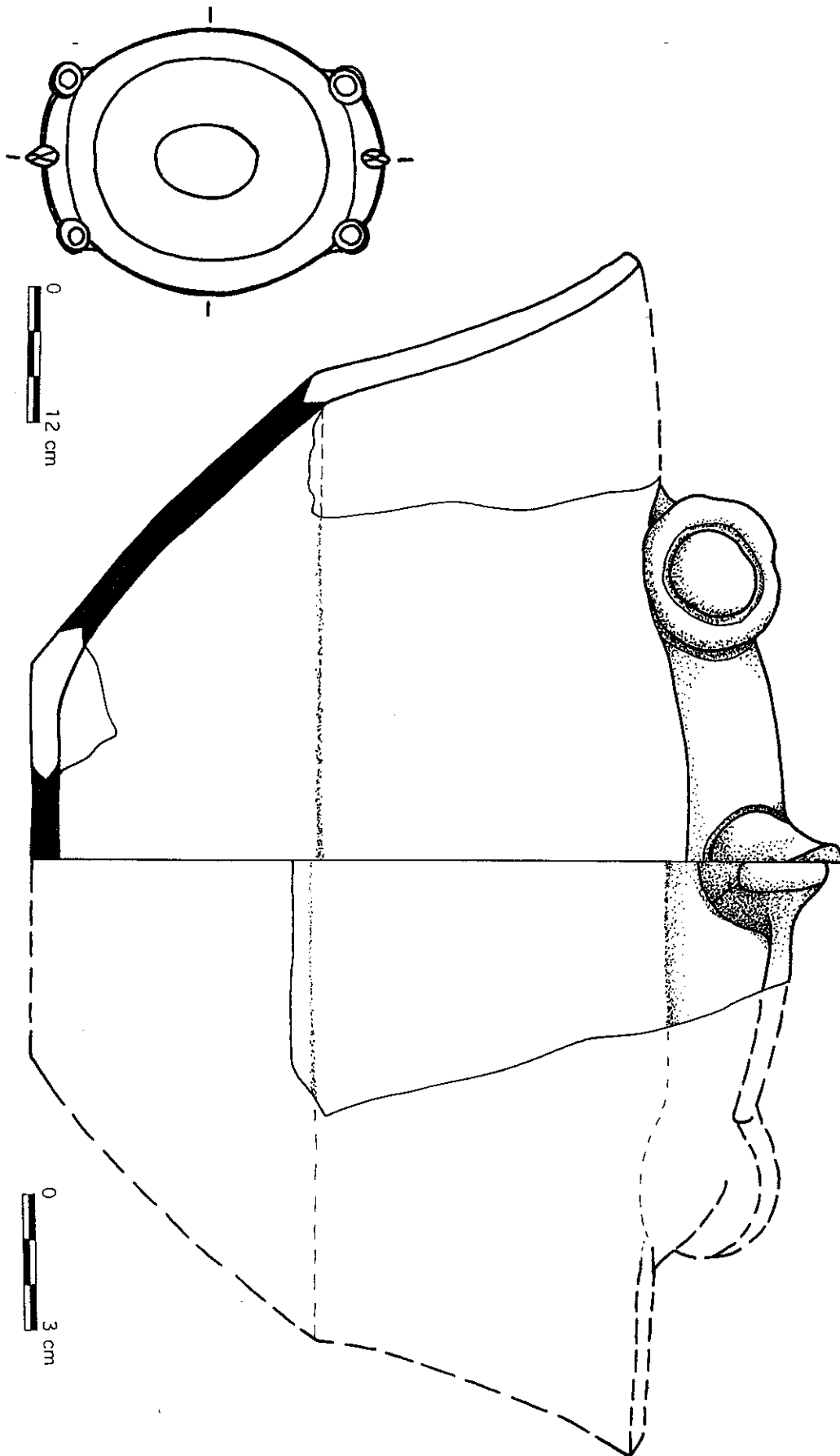


**Plate V : Beige-Grey Engraved/Incised Type, Z.I.C with Red Variety.**  
**Pedestal bowl with modelled modified rims.**  
**(VV96, S9, C3 ; engravings filled with red pigment)**

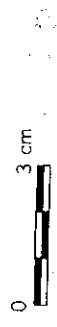
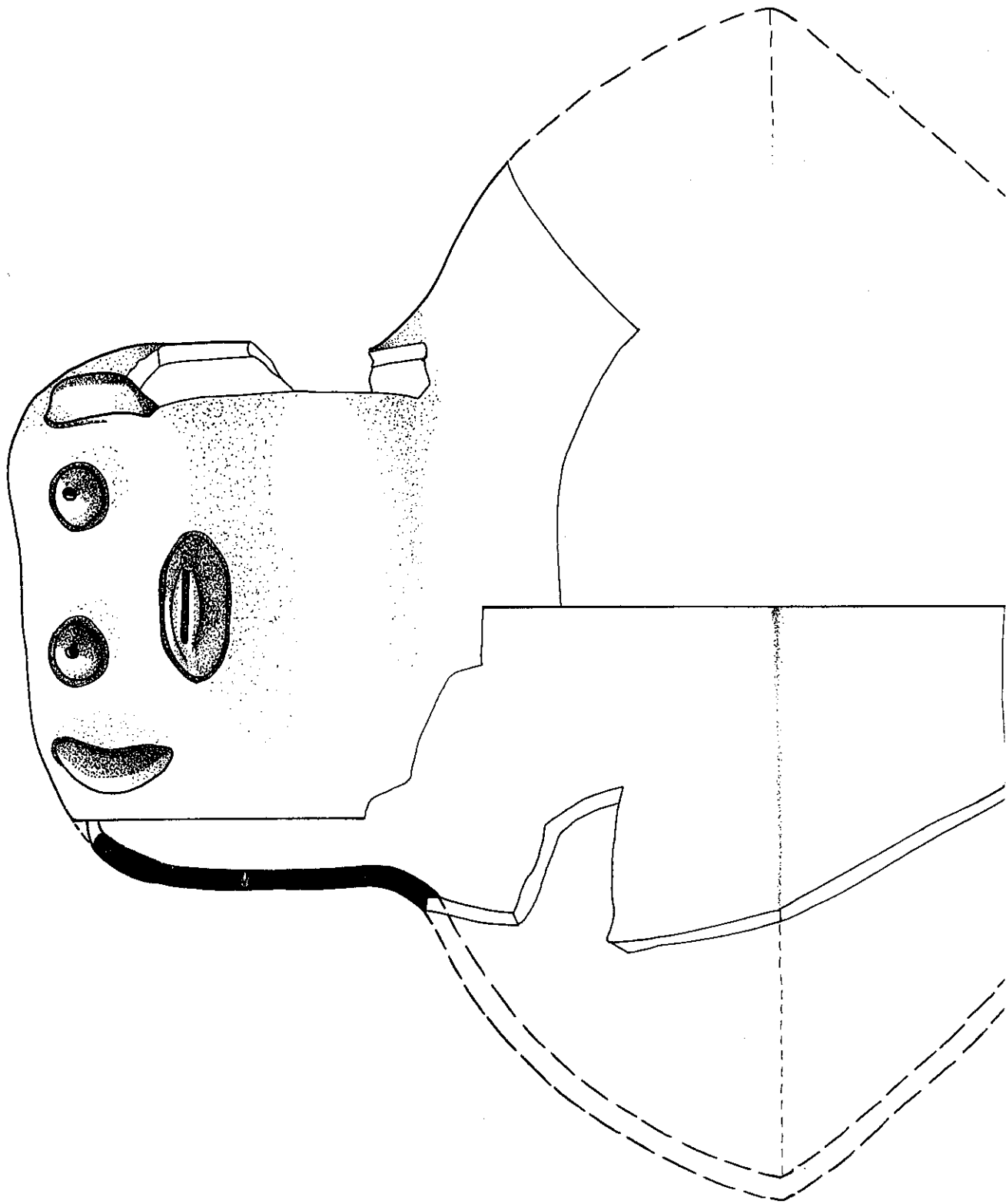


0 3 cm

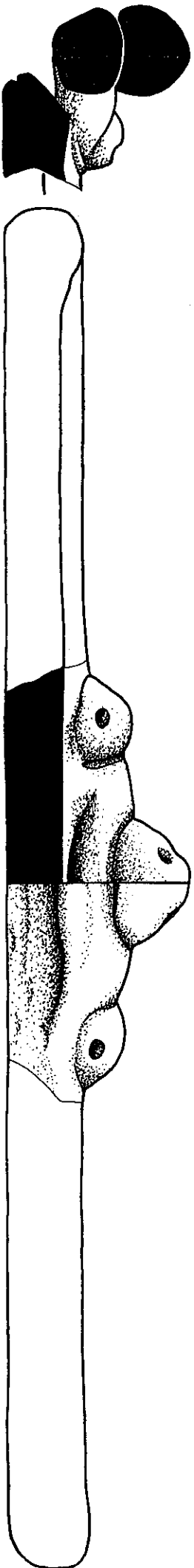
**Plate VI : Brown-Orange Incised Type. Inflected bowl.**  
(VV96, S9/Z1, C3, d1/2)



**Plate VII : Brown-Orange Plain Type.**  
**Inflected cooking pot with modelled modified rims. (VV96, S16, C3)**

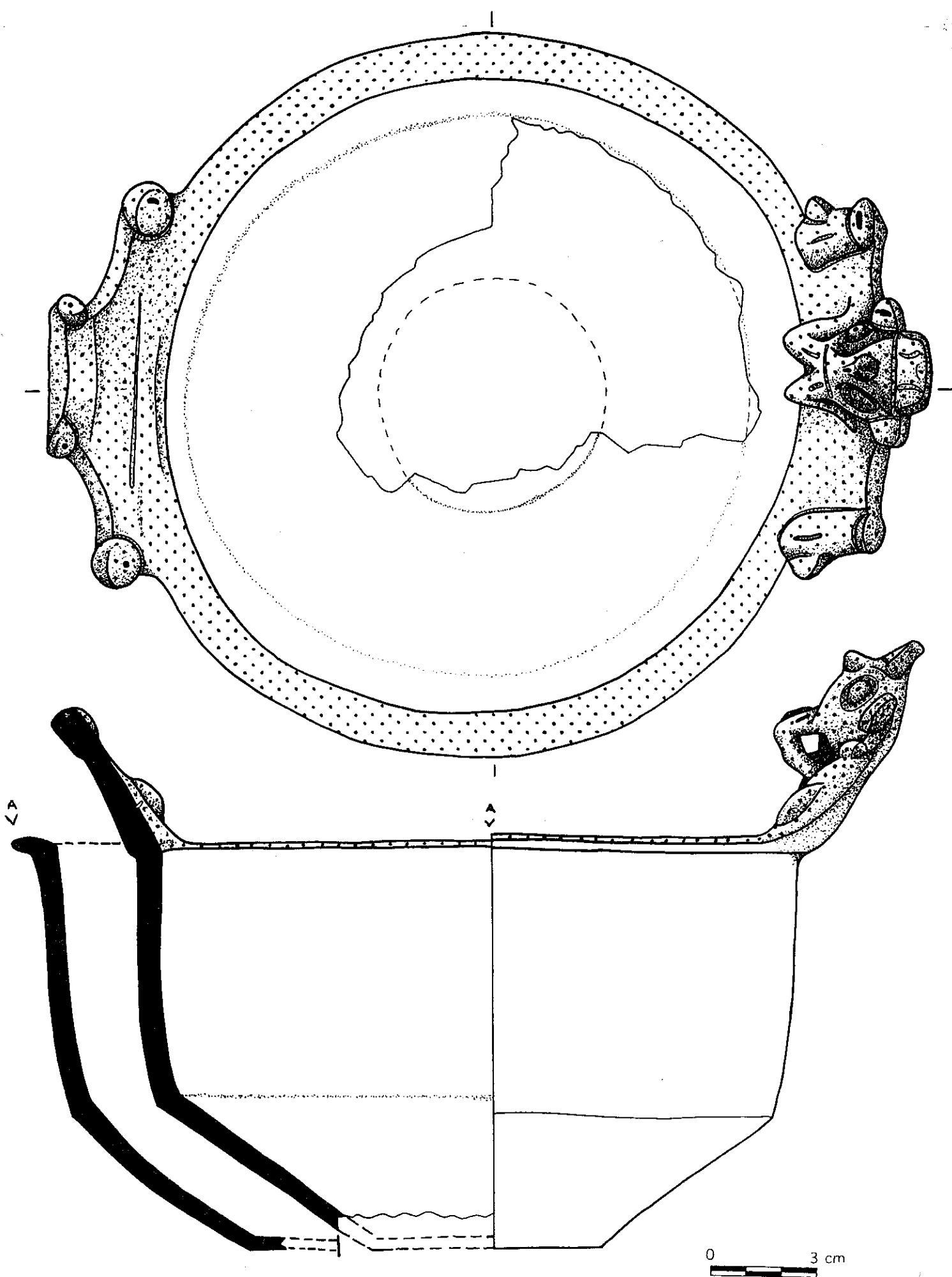


**Plate VIII : Beige-Grey Plain Type. Inflected jar with modelled restricted neck.  
(VV98, Z1, C3, d1/2)**

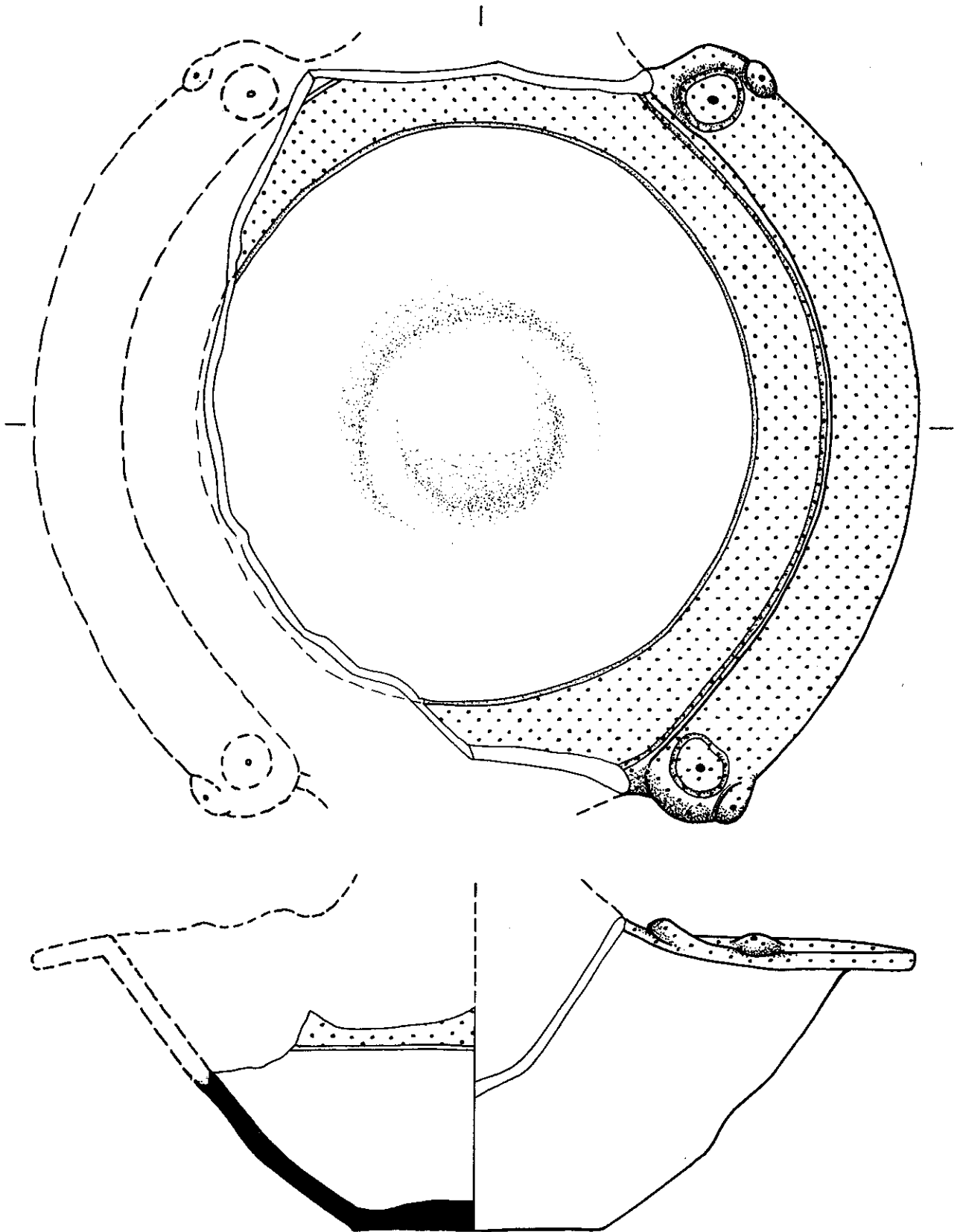


**Plate IX : Beige-grey Plain Type. Griddle with modelled round horizontal handles  
attached to rim. (VV96, S3, C3)**



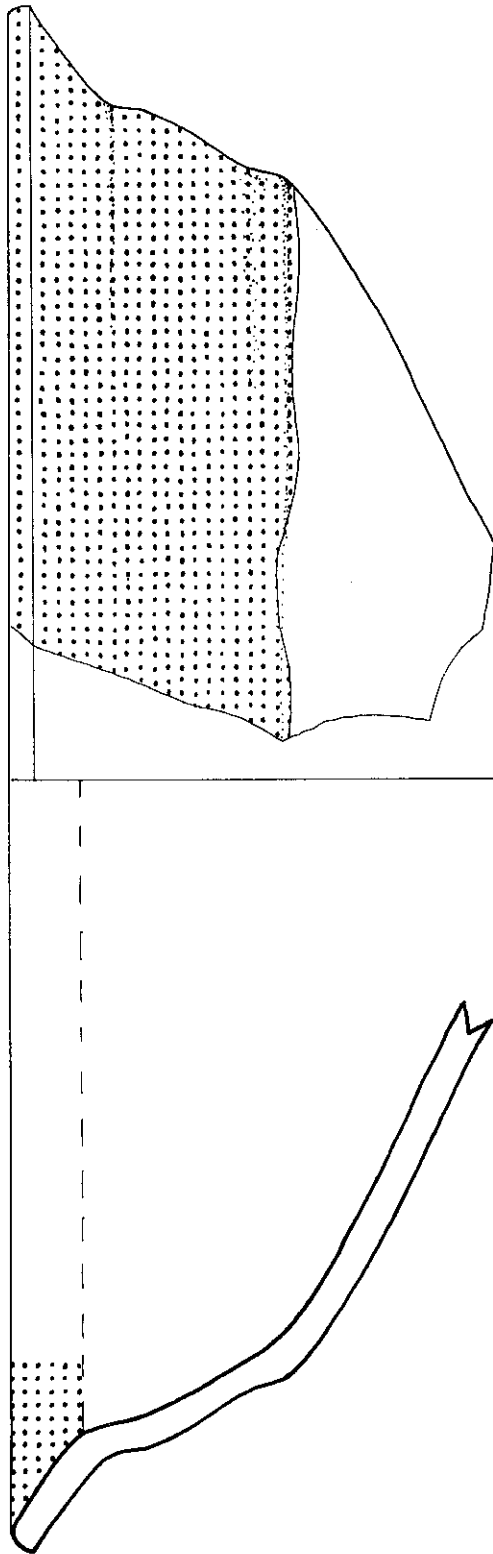


**Plate X : Red and Plain Type. Inflected cooking pot with modelled modified rims.  
(VV96, S9, C3, d1 ; beige-grey fabric)**

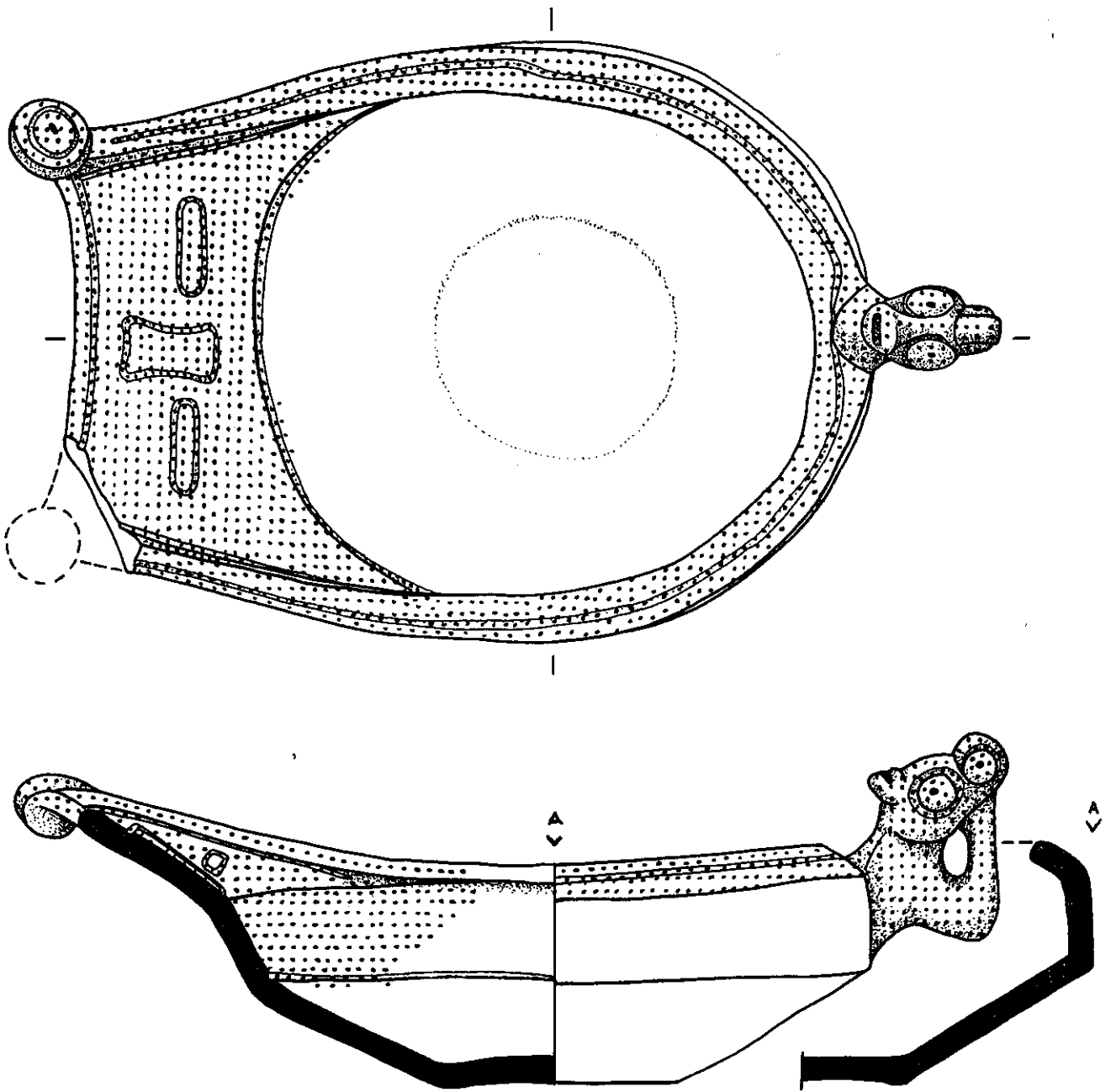


0 3 cm

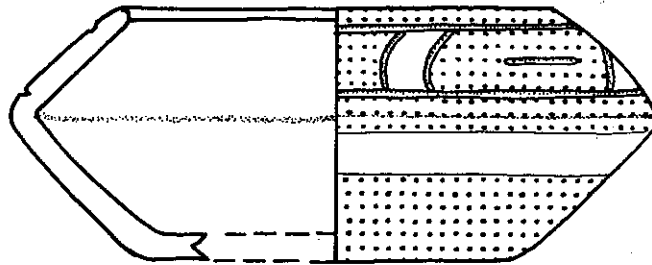
**Plate XI : Incised Red Rim Type. Bowl with modelled modified rims (?).  
(VV98, Z1, C3, d2 ; beige-grey fabric)**



**Plate XII : Purple and Plain Type. Inflected bowl.**  
**(VV96, S3, C3 ; beige-grey fabric ; drawing after Nathalie Vidal)**

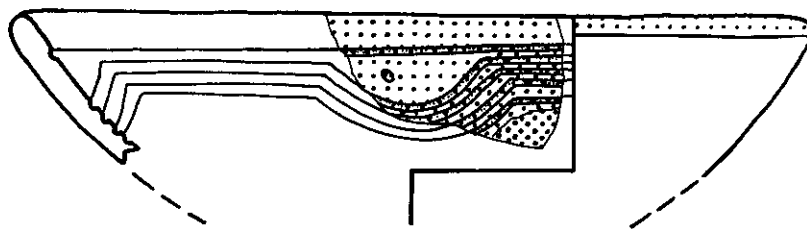


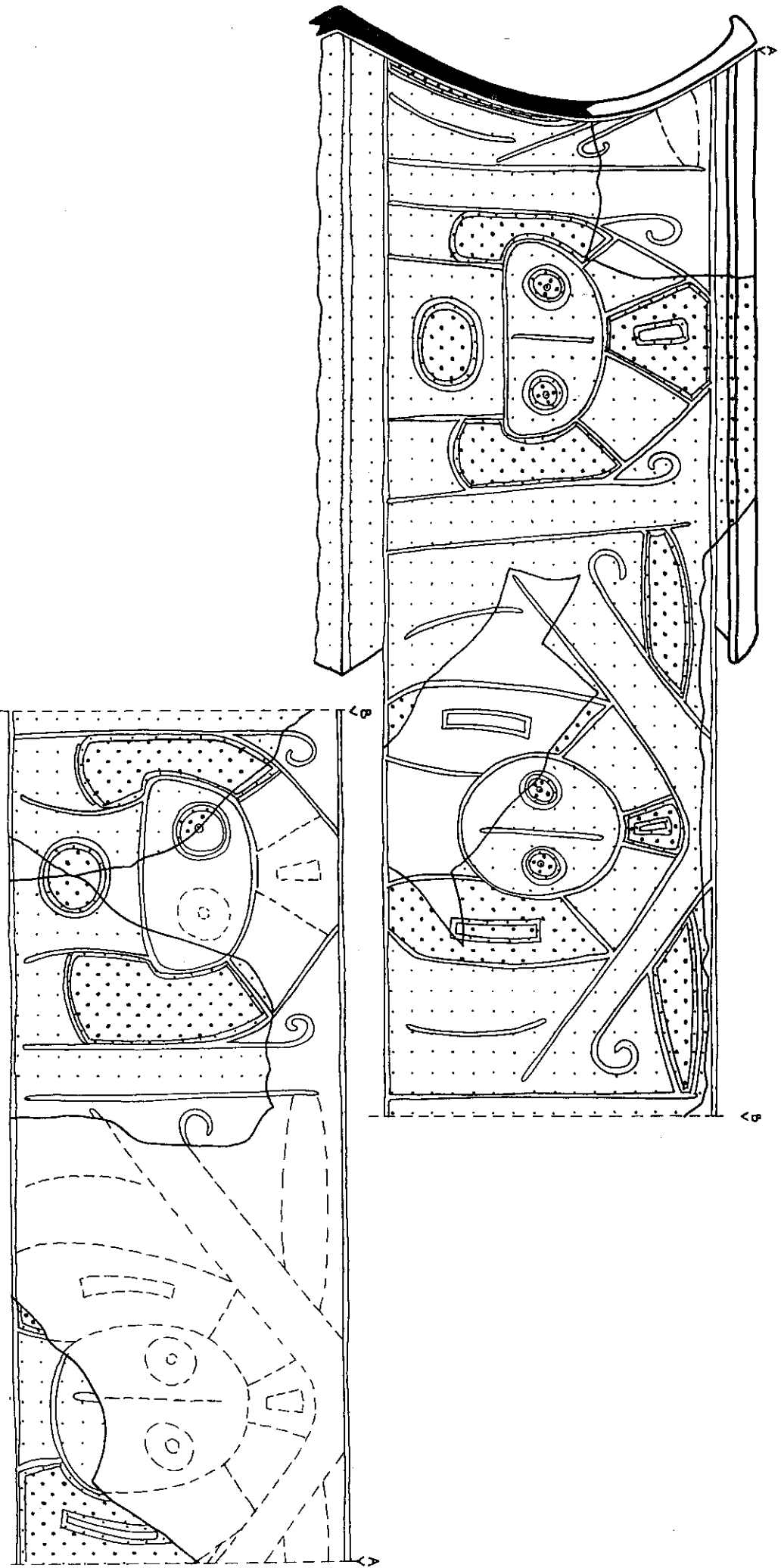
**Plate XIII : Incised Purple rim Type. Inflected restricted bowl with modelled handle and modified rim. (VV98, Z1, C3, d1 ; beige-grey fabric).**



**a : Incised Purple Rim Type, Zoned Bichrome Variety. Inflected restricted bowl.  
(VV98, Z1, C3, d1 ; beige-grey fabric)**

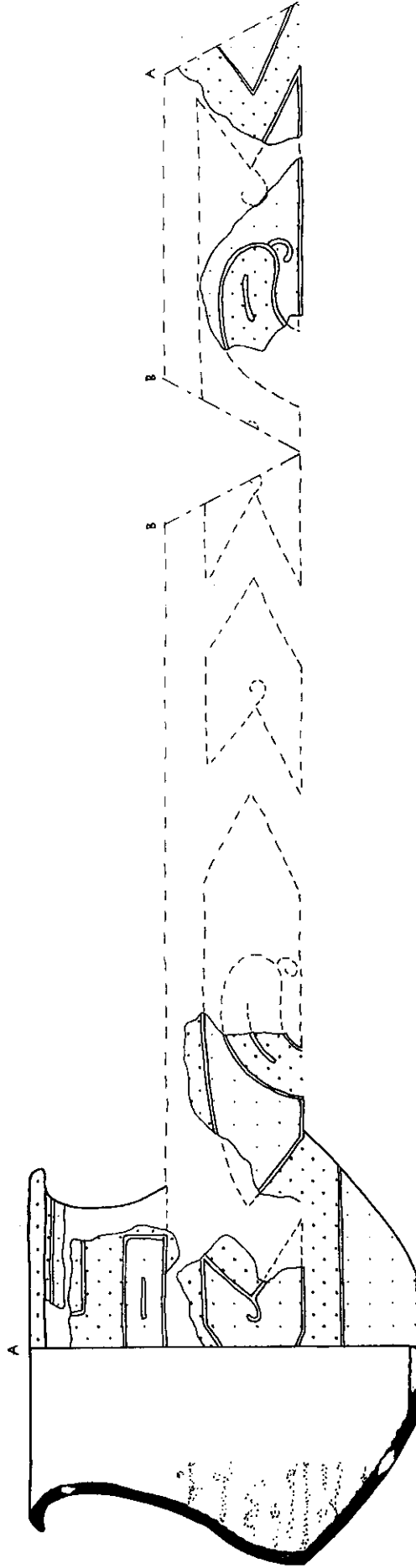
**b : Incised Purple Rim type. Bowl.  
(VV96, S8, C1b ; beige-grey fabric, interior coated with black paint)**





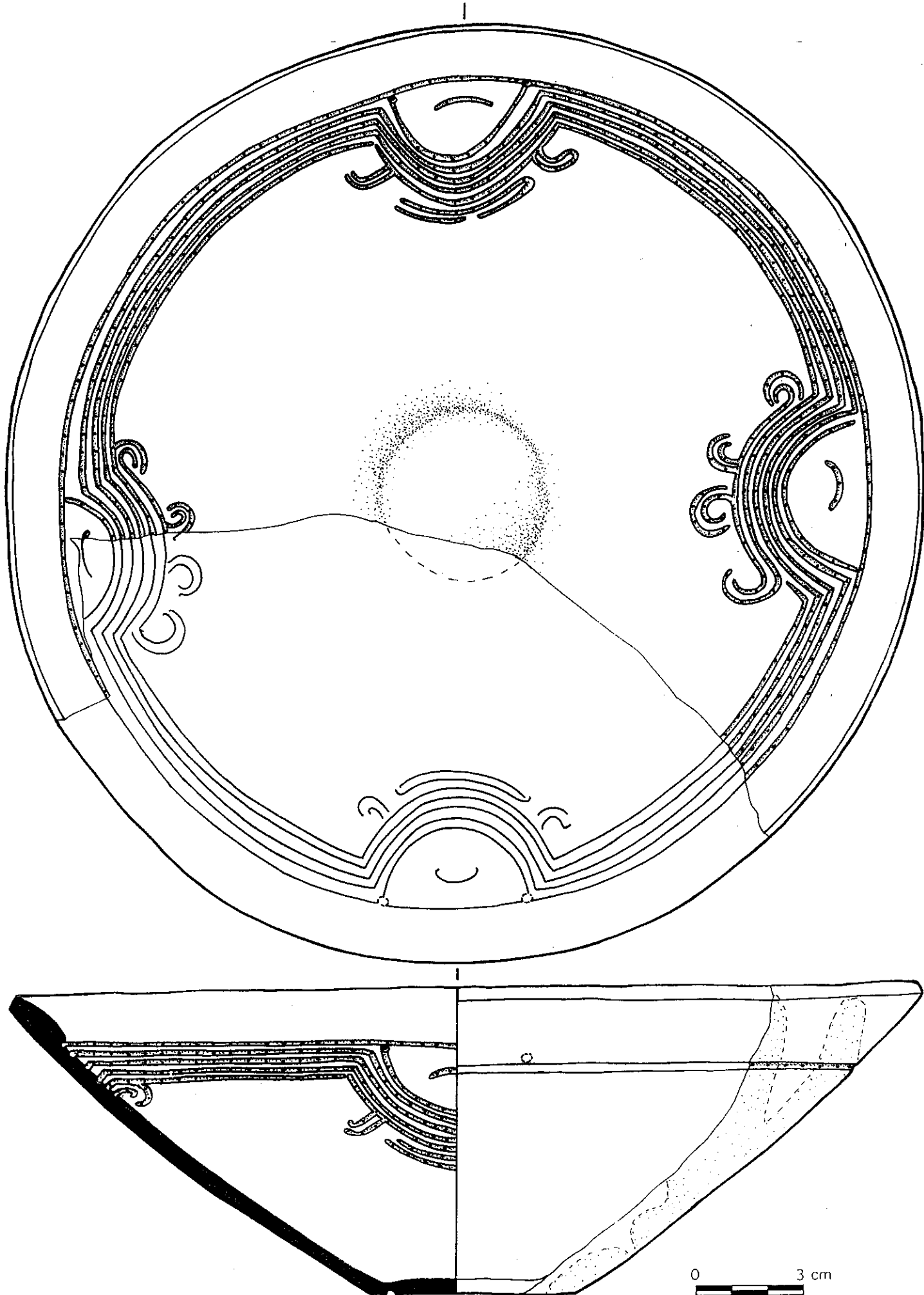
**Plate XV : White and Negative with Red Type, Incised Variety. « Mario Vat ».**  
 (VV98, Z1, C1, S11 ; beige-grey fabric ; interior corroded but rim)

0 6 cm

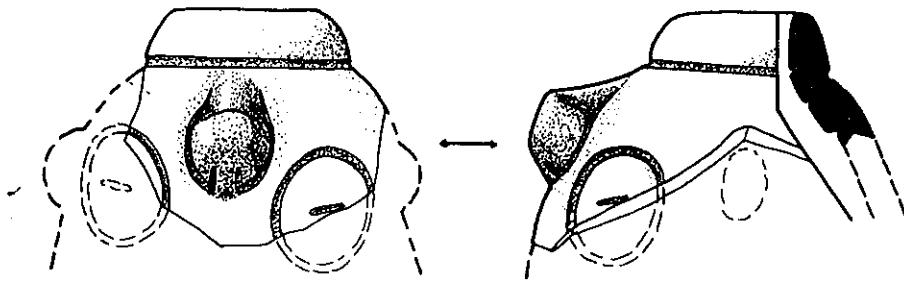


**Plate XVI : Bichrome Zoned Incised Type, White and Red Variety. « Mario Vat ».**  
(VV96, S8, C1b ; brown-orange fabric; interior corroded but the rim)

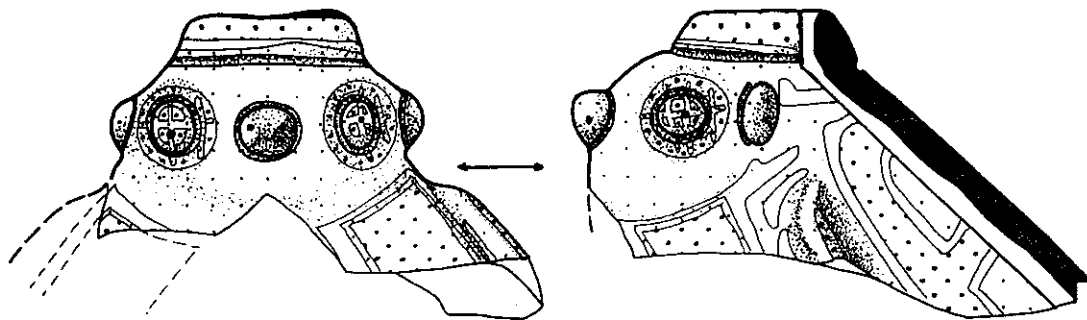




**Plate XVII : Incised Brown-red slip Type. Bowl.**  
(VV96, S8, C1b ; beige-grey fabric ; incisions filled with red pigment)

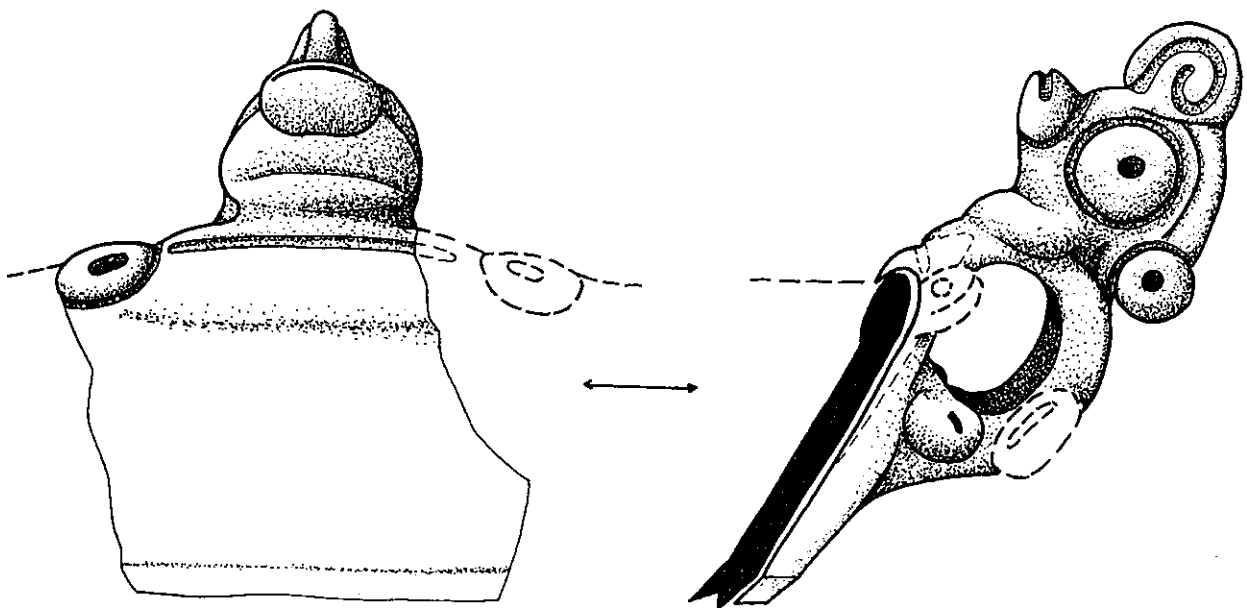


**1 : Brown-orange. (VV96, S9, C3)**



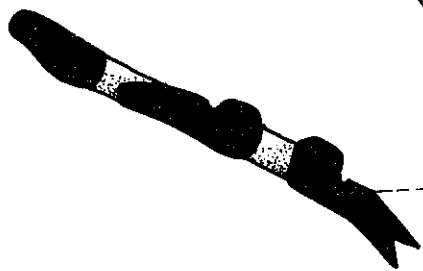
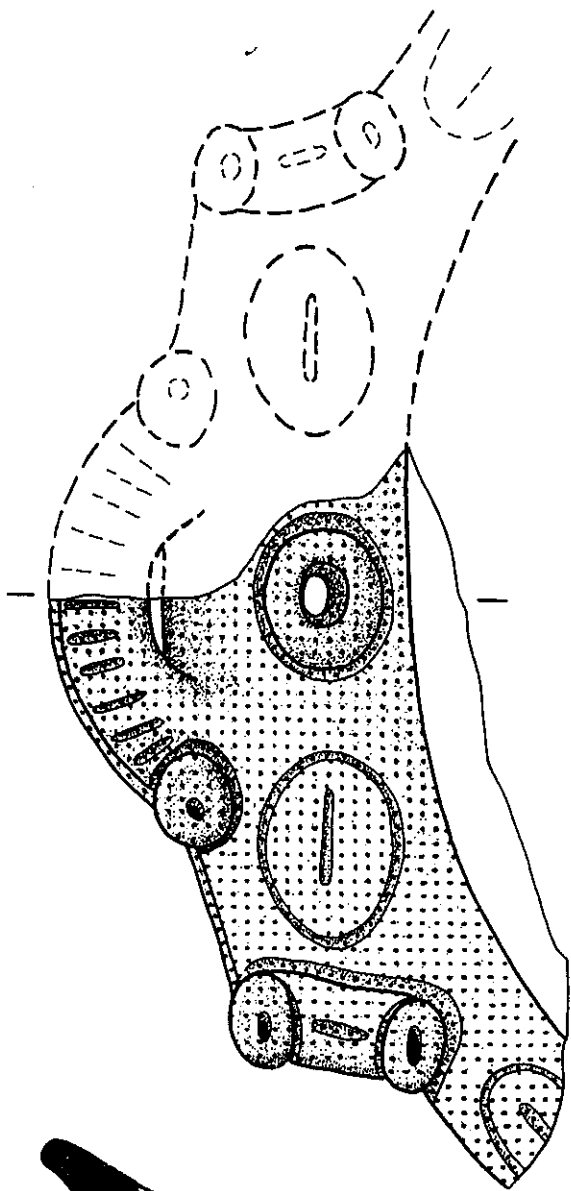
**2 : White and Negative with red Type.  
(VV98, Z1, C3)**

**a : Anthropomorphic bottle necks  
(interior untreated).**

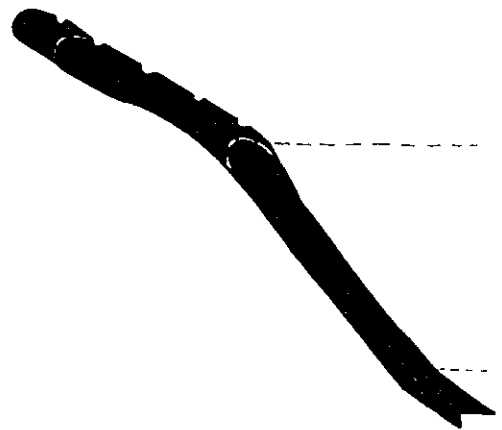
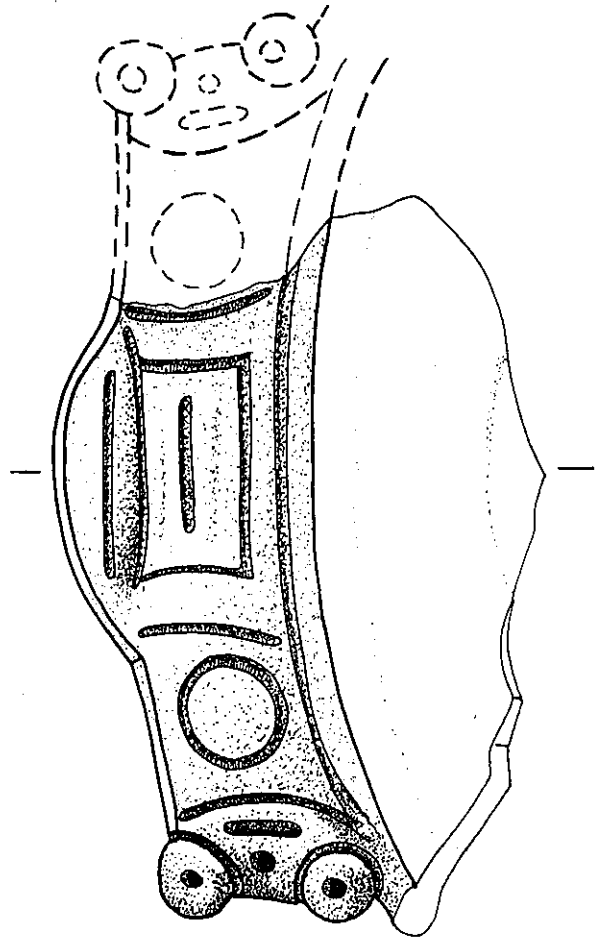


**b : Brown-orange zoomorphic vertical ribbon handle.**



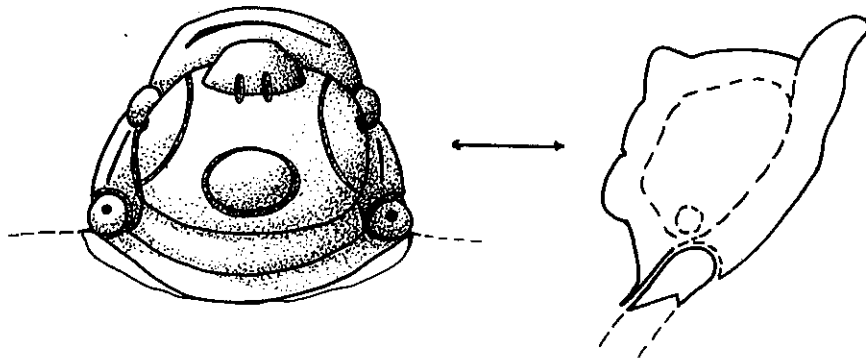


**a : Incised Purple Rim Type.**  
 (VV98, Z1, C3, d1/2 ; beige-grey fabric)

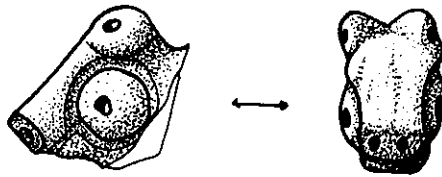


**b : Brown-Orange Plain inflected cooking pot.**  
 (VV96, S9, C3)



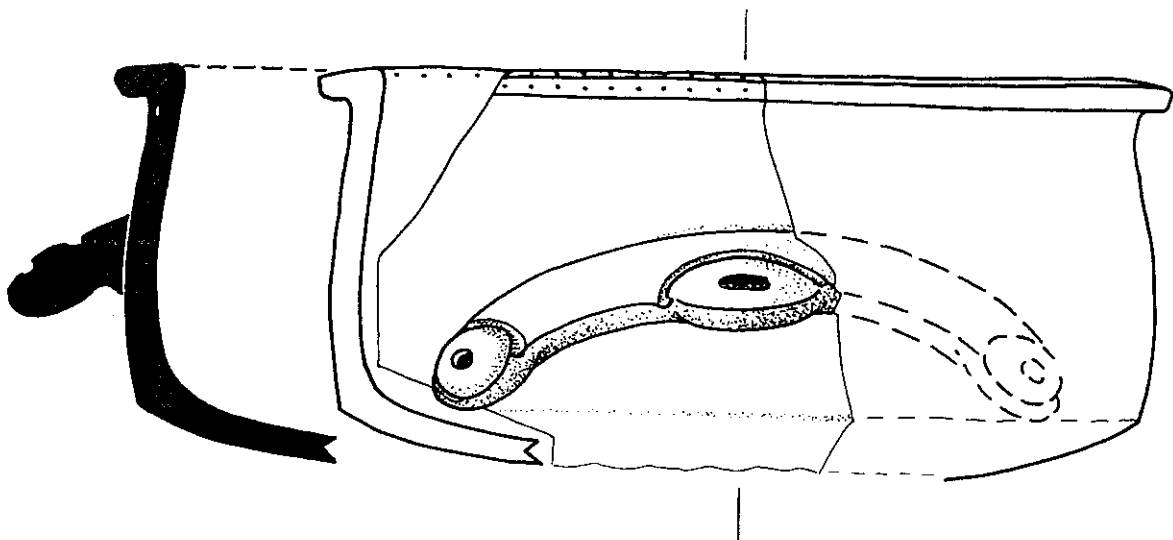


**1 : Hollow anthropomorphic rattle (MR.II.g). Eroded, beige-grey fabric.**



**2 : Zoomorphic White on Red adorno. Beige-grey fabric.**

**a : Adornos (VV98, S17, C3, d2)**



**b : Red and Plain inflected pot with zoomorphic body lug-handle.  
(VV96, S3,C3)**



**back-cover : White and Negative with Red pattern on bottle ; representing a house ?**  
(Grande Anse Site ; drawing by Petitjean Roget 1975 : 79[E301])

