Ideology and Culture Change in Prehistoric Puerto Rico: A View from the Community

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Many Native American settlements in lowland South America are physical models of the cosmos. Social behavior, relations of power, and activity organization are structured by how the participants interact with and interpret cosmology. Culture change in the Amazon Basin and the West Indies is rooted in increasingly asymmetrical power relationships and control over ideology. In this paper, I explore linkages between the archaeological record at the community level and ideology to discuss culture change in the West Indies. Anthropological theory, ethnohistorical documents, ethnographic observations, and archaeological data all were employed in this analysis.

Introduction

The study of culture change has been a dominant focus of research by anthropologists for much of this century. Archaeologists in particular have devoted a great amount of effort in describing and, to a lesser degree, explaining cultural sequences spanning considerable periods of time.

In terms of explanation, discussions quickly proceed to concepts of causality to account for observed changes in the archaeological record. Great debates center around specific causal factors within the natural and social matrix of cultural systems. Such factors in culture change have been variously attributed to ideological, economic, or political considerations (Demarest and Conrad 1992; Earle 1991; Henderson and Netherly 1993; Upham 1990). Proponents of specific formulations marshal evidence to support one of the competing views that either ideology, economics, or politics is paramount in the examination of culture change. In recent years, an increasing number of researchers are recognizing that specific historical circumstances are essential to understand when evaluating one or more cultural trajectories in a region. The spirits of Boas, Steward, and White may be at ease in this era of postprocessualism.

It is becoming clear that culture change cannot be viewed simply as a process of ecological management, but that political factors frequently, if not always, underlie change. Political power and how it is used to control the actions of people and the products of their labor is fundamental in discussing evolutionary trajectories.

I examine a specific historical sequence in Puerto Rico that is well documented archaeologically and ethnohistorically to span tribal and chiefdom-level societies. I focus in particular on community organization and how this aspect of society reflects changing relations of power. This form of analysis necessarily complements studies of regional settlement distributions.

In studying the layouts of ancient communities, archaeologists are finding that the built environment, in general, often serves to symbolize the structure and organization of the cosmos (Donnan 1985; Fritz 1978; Isbell 1978; Wheatley 1971). All human social systems have a world view, or cosmology, that describes and explains their universe. Within this framework of world view, the settlement may be an integral component of the universe. We see that the village or city is at once a model of the universe and a component of it (Lathrap 1985; Wheatley 1971).

In their interpretations of site structure and settlement organization archaeologists have found that it may be useful, and sometimes necessary, to consider cosmology as an interpretive framework (Flannery and Marcus 1976; Fritz 1978, 1986; Marcus and Flannery 1994; Stahl 1984, 1985). Archaeologists understandably have shied away from such approaches because of the methodological problems in linking archaeological residues to ancient conceptual models. Kent Flannery once said that “most ‘hard-nosed’ archaeologists are unwilling to touch with a ten-foot pole” such phenomena “as ritual, religion, cosmology, and iconography for which there are no agreed-upon analytical procedures” (Flannery and Marcus 1976: 375). In doing so, world view may be relegated to epiphenomena...
with no great bearing on such “big issues” as adaptation, economic organization, and politics. It is probably not coincidental that this kind of analysis has been most successful where written records or hieroglyphic inscriptions could be consulted to confirm or negate interpretations (Ashmore 1991; Schele and Freidel 1990). When the database consists solely of soil discolorations and scatters of artifacts the methodological challenge is formidable.

In this essay, I present the results of one such study. After a brief introduction to Saladoid archaeology, I discuss the importance of cosmology in lowland South America, and how this is relevant for the West Indies. This is followed by the examination of early ceramic-age sites in the West Indies, where linkages can be demonstrated between settlement and cosmological organization. Finally, there is a discussion of the ideological basis for the development of social complexity in prehistoric Puerto Rico, and how this is represented in the archaeological record.

Cultural History of the Saladoid Colonists to the West Indies

In 1970, Donald Lathrap published The Upper Amazon, in which he presented a major statement on lowland cultural history. He argued that the vast system of waterways connecting various portions of Amazonia was an important natural backdrop for cultural development and change in the region (FIG. 1; Lathrap 1970: 24–25; see also Lowie 1948: 1). While recognizing that there were ethnic and social distinctions between groups within the Amazon Basin, Lathrap considered the similarities between these groups to be telling evidence of their interconnectedness. He referred to a Tropical Forest Culture “defined in terms of shared cultural elements rather than as a uniform level of cultural development” (Lathrap 1970: 47). He asserted that the basis of this tropical-forest system was economic, specifically the intensification of root-crop agriculture. Many of Lathrap’s students have elaborated upon his model in particular sections of Amazonia. These areas include eastern South America (Brochado 1984), nw Venezuela and ne Colombia (Oliver 1989), and western Ecuador (Stahl 1984; Zeidler 1984).

Recently, scholars have suggested that in addition to economics, cosmology was an important factor in defining this tropical-forest culture (Bierhorst 1988; Goldman 1963: 4; Lathrap, Marcos, and Zeidler 1977; Lévi-Strauss 1983a, 1983b; Reichel-Dolmatoff 1971, 1975; Stahl 1984, 1985). It is likely that both cosmology and economics were aspects of the tropical-forest system shared by lowland societies.

An important aspect for my study concerns Lathrap’s treatment of the Orinocan cultures in the original formulation of his model. He argued that competition for alluvial flats along rivers caused peoples to migrate through the Amazon Basin. Beginning in the central Amazon, groups...
moved, through a number of dispersals, to disparate regions of the lowlands and into some sections of the Andes (Lathrap 1970: 74–78). Drainages connecting the Amazon and Orinoco Basins, especially the Río Negro and Casiquiare Canal, facilitated the movement of people and ideas between these two regions (Lathrap 1970: 73–74, 111–112). He argued that “peoples occupied the Lower Orinoco for a long time until pressure from further groups moving down the Orinoco forced them onto the coast of Venezuela and ultimately out into the Antilles, where they became the Taino encountered by Columbus” (Lathrap 1970: 75). Lathrap clearly envisioned a series of dispersals influencing the movements of peoples throughout the region. Therefore, the ceramic-using groups who initially settled the Lower Orinoco were impacted later by another population dispersal. Citing distinct similarities in ceramic vessel shapes and surface decorations, Lathrap suggested that this latter movement of peoples originated in the Upper Amazon Basin, specifically in the montaña region of eastern Peru (Collier 1958; Lathrap 1958, 1970).

In his recent review of the Tainos and their origins, Irving Rouse indicated that, on the basis of linguistic evidence, these people can be traced ultimately to the Middle Amazon Basin (Rouse 1992, 1986: 123–126, fig. 22). He notes, however, that using material cultural evidence, “Caribbean archaeologists . . . have not been able to trace the migration to its beginning in the Amazon Basin because too little is known about the chronology of that region” (Rouse 1986: 127–128). Therefore, at this point, there are no archaeological data for the geographic origins of Saladoid cultures. Lathrap presented a provocative model for population dispersal in Amazonia. As such, the model is important because it established a set of clearly-defined culture historical propositions, or expectations, against which future data may be compared. Thus the model is testable and can be falsified or modified with continued research.

Since 1985 a number of dated carbon and ceramic samples from good cultural contexts in early West Indian deposits suggest an earlier dispersal of Saladoid peoples out of the Orinoco than was previously thought. Recently obtained dates from Martinique (Schwoerer et al. 1985), Montserrat (Petersen and Watters 1991), St. Martin (Haviser 1991), and Puerto Rico (Chanlatte Baik 1976; Naganes Storde 1991; Rodriguez 1989; Rouse and Alegria 1990; Siegel 1989, 1991a, 1991b) indicate that Saladoid groups must have entered the Caribbean islands by at least 400-500 B.C.

Colonization of the West Indies by early ceramic-age groups appears to be part of the larger process described by Lathrap for lowland population movement. That is, competition over scarce, but attractive, main river frontage in the South American lowlands resulted in large-scale hostilities between groups vying for the land. The losers in these competitive interactions had one of three choices: 1) remaining on the floodplain and becoming subjugated by the winners, 2) moving off the floodplain into the interfluvial regions of the rain forest, and 3) in NE South America the losers of the intergroup hostilities had the added choice of moving into the insular environment of the West Indies.

This brief review of lowland prehistoric population dispersal indicates that the early ceramic-age groups of the West Indies can be considered, in a broad sense, part of the Tropical Forest Culture characterized by Lathrap (1970). In recent years, however, investigators are finding that Lathrap’s assumptions must be treated as hypotheses for testing. For instance, intensification of root-crop horticulture may or may not have been as important as Lathrap argued. Through such careful recovery techniques as flotation and studying the chemistries of human skeletal remains, Roosevelt (1980; van der Merwe, Roosevelt, and Vogel 1981) has found that maize played a larger role in cultural development than was acknowledged by Lathrap. Perhaps the recent studies of lowland cosmology will be more appropriate to view from a pan-Amazonian and West Indian perspective than details of subsistence and technology. These latter concerns may vary considerably depending on local conditions (Siegel 1991a; Watters and Rouse 1989).

Cosmology and Community Organization in Lowland South America

Studies of community organization in Lowland South America reveal a considerable amount of variation across the region (Butt Colson and Heinen 1983–1984; Gross 1973; Kensinger 1984; Wilbert 1972). Rules of residence, marriage, economic relations, and domestic organization display a multitude of patterns. Among sedentary communities residing in relatively permanent villages (10–15 years), however, there are striking similarities in how space is used and what it means to the inhabitants.

Village communities and houses of such well-documented groups as the Bororo (Crocker 1985), Gé (Maybury-Lewis 1979, 1989; Nimuendajú 1946; Seeger 1981), Makiritare (Wilbert 1972), and Meinaku (Gregor 1977) favor circular to semi-circular arrangements, with carefully cleared plazas positioned in the settlement centers (FIG. 2). Public ceremonies, dispute adjudication, and discussions of community importance are conducted in these areas. The circular aspect of lowland villages relates to cosmological notions of time, space, and the organization of the cosmos. Anthony Seeger has noted that “cosmological and social concepts are concretely expressed in the spatial plane; each
village is the center of its own universe” (Seeger 1981: 66), while Wilbert observed that “the communal house represents a miniature of the Makiritare macrocosmos. The roof is the heavenly vault supported by a major cross-beam—
the Milky Way. The central pole is the axis mundi, the axis of rotation for the celestial dome” (Wilbert 1972: 138). In
other words, cosmological notions of circularity in time and space are reproduced, on the ground, in the physical layouts of villages and houses.

Fundamental to the concentric model of the universe are concepts of sacred and profane space. Mircea Eliade's (1957) seminal work on the subject provides a clear exposition of these concepts, which is relevant for Amazonia. Eliade uses the term “hierophany” to mean anything that reveals or manifests the sacred (Eliade 1957: 20–21).

The Makiritare’s central house post as the axis mundi is a perfect example of a hierophany. This World Tree is an axis, around which eight vertically distinct heavens revolve, in Makiritare cosmology (Wilbert 1972: 138).

Across Amazonia there is a constellation of attributes that characterize the sacred and profane realms of the cosmological landscape. The sacred is characterized by such features as center of house, center of village, men, social life, ritual activity, food consumption during the day, cooked food, and hallucinogenic beverages. This contrasts with the profane, which is represented by house periphery, village periphery, women and children, domestic life, non-ritual activity, food production, and raw food (Crocker 1985: 32–33; Gregor 1977: 50; Guss 1989: 21–26; S. Hugh-Jones 1979: 108; Nimuendajú 1946: 37).

Concentricity in Native American communities is manifested at two obvious scales: the house and the village. There may be a concentric village, the central area of which is sacred, or there may be a round house with a central sacred area, or both. The Bororo (Crocker 1985) and Mehinaku (Gregor 1977) are examples of groups occupying circular villages with central sacred areas. A man’s house and plaza occupy the centers of these communities. These are the areas where ceremonial activities and public displays are enacted. Defining the periphery of the central sacred area is a series of houses, or domestic units, representing a ring of profane space.

The axis mundi is an important feature of the sacred center (Eliade 1958: 298–300). As described for the Makiritare center post, this is a structural element in the cosmology connecting the various spheres, or layers, of the cosmos. In terms of Eliade’s hierophanies, a variety of things may qualify as the axis mundi. The central house post is one of the most common and direct forms of axis mundi employed in Native American communities (Guss 1989: 21–26; Wilbert 1981: 44–47; Yde 1965). When the Panare Indians of the Guiana Shield leave their longhouse for some period of time, they plant a pole about 2 m high in the center of the camp site, “which symbolizes the center of the world, as does the central pillar of the charnuta [communal longhouse]” (Dumont 1972: 68).

The axis mundi, as connector between the layers of the cosmos, provides an access route or vertical “bridge” for the shaman to travel through the universe (Reichel-Dolmatoff 1971; Wilbert 1975). The shaman presides over and directs the numerous rituals and ceremonies performed in the village. He is the intermediary between the group and the spirit world. To assist him in his efforts, the shaman employs a variety of aids, together as a complex, in order to successfully travel through the cosmos, reach his designated goal, and to communicate with the necessary spirits. To enter the spirit world it is necessary for the shaman to attain an altered state of consciousness, which is achieved through ingesting one of a variety of hallucinogenic agents naturally available in the tropical rain forest (Schultes 1972). Well-known hallucinogenic plants used for these purposes include Banisteriopsis spp., Anadenanthera spp., Virola spp., and Datura spp. (S. Hugh-Jones 1979; Reichel-Dolmatoff 1971, 1975; Stahl 1984: 57–60). In addition, tobacco “is used to establish a state of meditation” and coca “for divination” (Stahl 1984: 61–62; see also Reichel-Dolmatoff 1975; Wilbert 1987).

The axis mundi can take a variety of forms besides the house post. These include a staff, a tree, a vine serving as a ladder, a ray of sun light, a rainbow, etc. (Reichel-Dolmatoff 1975: 141). In the Mehinaku village described by Gregor, the central plaza is divided into several subareas, which include a public region in front of the men’s house, a wrestling ground, and a shaman’s circle (Gregor 1977: 50–51). “Finally, the village burial ground is also located on the plaza and is connected, the Mehinaku say, by means of an invisible road to the village in the sky” (Gregor 1977: 51). Gregor does not discuss the concept of axis mundi but shamanism is an important element of Mehinaku rituals. I would suggest that the “invisible road to the village in the sky” perhaps is a manifestation of the axis mundi in this community. In Amazonia, death, burial rites, and interment are strongly associated with rebirth, renewal, and propagation (Coe 1975: 195; Guss 1989: 137–139; C. Hugh-Jones 1979: 107–114; S. Hugh-Jones 1979: 214–226; Jackson 1983: 209). Death is simply one phase in a continuous process. Burial rites and interment are acts that highlight important points of the process (Siegel 1989: 200). The dead become spirits who reside in another realm of the cosmos, periodically visited by the shaman.

It should be clear that cosmology represents an organizing principle for many lowland societies across Amazonia. It is manifested in all aspects of life, including the structure and organization of the community. We have seen that the concentric structure of the village and the houses is a physical model of the universe. It is “the wheel of life” (Crocker 1985). The village, however, is not only a model,
it is the cosmos, or one aspect of it. The sacred center, with the axis mundi, articulates the various levels of the cosmos, providing a “bridge” for the cosmological participants to enter the spirit world.

This discussion serves to demonstrate the causal connections between lowland cosmology and village organization. That is, cosmological notions of circularity in time and space are reproduced, on the ground, in the physical layouts of villages and houses. Thus, there is a relationship between lowland cosmology and village organization, and we can examine village organization and from it say something about cosmology.

Cosmology and Community Organization in the West Indies

The earliest ceramic-age groups in the West Indies, referred to as the Saladoid series, originated in lowland South America (Fig. 1). For reasons that are currently the center of considerable debate, these people began dispersing into the archipelago roughly 2500 years ago (Rouse 1986, 1989, 1992; Siegel 1991a, 1991b). Site sizes and distributions, burials, and artifact assemblages indicate that these colonizing groups were egalitarian horticulturalists. Known Saladoid sites are generally 10–20 ha in area and are widely dispersed over large regions. There is no good evidence for a “centralized political region” (Spencer 1987) during the Saladoid period. Artifact and feature assemblages are not suggestive of a site hierarchy or of a functionally diversified settlement system. To the contrary, the overwhelming impression is one of large, relatively self-contained sedentary communities. For the most part, human burials contain no grave goods and the few that have been excavated with offerings are not very elaborate (Rodríguez 1991; Siegel 1989, 1992). As in any society, however, death is taken seriously, and the Saladoids, in particular, appear to have treated the process and location of interment as a social and ceremonial focal point.

Saladoid villages were highly structured places, based on a concentric model of the universe (Rodríguez 1991;
Siegel 1989, 1992). Archaeologically, this is manifested by middens arranged in circular configurations (FIG. 3). Centered among these middens was a large space, carefully cleared of refuse, which represented a portion of the sacred domain.

Archaeological residues of Saladoid sites are similar in overall structure to extant villages of lowland Native American communities in South America, also constructed as physical models of the universe (Chanlatte Baik and Narganes Storde 1983; Josselin de Jong 1947; Rainey
Figure 3. (cont.)

1940; Rodriguez 1991; Rouse 1974; Siegel 1989, 1992; Versteeg 1989; Versteeg and Schinkel 1992). There are four reasons why this is not surprising: 1) in Lowland South America, community organization is tied strongly to cosmology; 2) ethnographic groups in portions of Lowland South America are analogous, structurally and organizationally, to the pre-chiefdom Neolithic groups of the lowlands and the West Indies (Myers 1973; Roosevelt 1987); 3) there are close similarities in the ritual complex and cosmology between ethnographic Lowland South America and the ethnohistorically documented Tainos in Hispaniola and Puerto Rico; and 4) the peopling of the Antilles during the early ceramic period was part of the overall process of Lowland South Amerindian population dispersal noted long ago by Rouse (1964) and Lathrap (1970).
Figure 4. Three-dimensional plots of artifact densities at Maisabel, based upon material retrieved from auger test pits. The top map shows all artifact classes combined and the bottom map shows prehistoric pottery. The z axes represent weights in grams. The circular configuration of dense midden deposits is apparent in both plots. The cemetery is ringed by these middens and a house area is located between Mounded Middens 1 and 2.
Figure 5. Portion of human cranium carved and perforated into a pectoral or belt ornament. This is very similar to one recovered from a site on the Dominican Republic (Stevens-Arroyo 1988: fig. 9). The incised curvilinear lines have been interpreted by Stevens-Arroyo (1988: 191) to be representations of the rainbow, one of the "bridges" connecting the various spheres of the cosmos. The carved cranium shown here was recovered from Mounded Midden 1 (Maisabel).

Figure 6. Sample of Hacienda Grande ceramic effigies, all recovered from Mounded Midden 1 (Maisabel). (Drawing by Timothy Roberts.)
Saladoid sites that have been adequately sampled for information on community organization indicate that the centers of plazas served also as burial grounds (Rodríguez 1991; Siegel 1989, 1992). The Maisabel site in particular, located on the north coast of Puerto Rico, has supplied the most detailed information on ceramic-age community organization (Fig. 4). As noted earlier, the dead were interred with few to no grave offerings. It is striking, however, that mounded middens surrounding the cemeteries contain great quantities of the most elaborate items fabricated by these people. These include finely polished celts and adzes, many of which exhibit no evidence of use; polished-stone and carved shell and bone amulets, pendants, beads, and discs (Fig. 5); ceramic adornos and effigy vessels (Fig. 6); and carved or ground three-pointed objects fabricated from shell, stone, bone, and coral (Fig. 7). The last were being used at Contact, and ethnohistorical documents indicate that these items were physical representations of protector deities and represented clan ancestors (Fewkes 1907; Joyce 1916; Las Casas 1951; Rouse 1948).

The pattern emerging from large-scale excavations of ceramic-age sites is that the mounded middens and central plazas functioned together as arenas for displays of public behavior and important rituals. Judging from the Maisabel data, these ceremonial cores served as integrative mechanisms for over 1000 years. Table 1 shows the temporal distribution of the burials recovered from Maisabel. Eleven of the burials are Saladoid, four are Saladoid/Ostionoid transitional, and eight are Ostionoid. These data suggest that the cemetery was used by all of the prehistoric groups occupying the site (Fig. 8).

Within the cemetery there is no spatial grouping by time period. Burials of every cultural complex, from Hacienda Grande through Santa Elena, are represented within localized areas of the cemetery (Figs. 9-10). It is curious that none of the burials encountered appeared to have been disturbed by later burials. This could simply be a result of sampling, but the evidence currently available denotes a sense of knowledge on the part of the settlement occupants of where previous interments were located.

The Maisabel cemetery is approximately 6300 sq m in area. If we consider the recovery rate of 23 burials from 14 2 m × 2 m-square excavation units as representative of the overall burial density in this section of the site, then as many as 2500 burials may be present. This represents 2–3 people per year deposited in the cemetery over 1000 to 1400 years of occupations at Maisabel, resulting in roughly 0.35 individuals per sq m. Other than burials, few features were found in the cemetery—in contrast to other sections of the site where a variety of feature types were identified.

The overall similarity in structure of early ceramic-age sites in the West Indies is compelling evidence that there was a shared world view, which is revealed at least in the
organization of settlements (FIG. 3). The excavations at Maisabel fill in details of this organization (FIG. 4), suggesting that rituals revolving around the veneration of ancestors were of central importance through time (TABLE 2).

Rituals are performative statements about ideology. Underlying these statements, to various degrees of interpersonal or inter-societal visibility, are relations of power and politics (Kertzer 1988). Ideas about how the universe is structured are expressed in sacred texts, myths, cosmologies, and rituals, all of which overlap. All societies have specialists to some extent who interpret these domains of ideology.

In lowland South America it is widely documented, ethnographically and ethnohistorically, that myth, ritual, and cosmology function as an organizing principle for Native American groups (Bierhorst 1988; S. Hugh-Jones 1979; Reichel-Dolmatoff 1971, 1975; Seeger 1981; Stahl 1985; Wilbert 1981, 1987). Among these groups, shamanism is inextricably linked to myths and rituals. It is reasonable to assume that shamanism was equally important during the prehistoric ceramic age in Puerto Rico (Alegria 1986; Arrom 1975; Fernández Méndez 1972; López-Baralt 1985; Pons Alegra 1987; Rouse 1948; Stevens-Arroyo 1988; Wilbert 1987).

The role of shaman in South America is unambiguous. He or she officiates in rituals and insure that myths and cosmology are interpreted and acted on properly. Shamans are frequently ranked in terms of their breadth of knowledge and understanding of esoteric meaning behind myths (Dole 1973; S. Hugh-Jones 1979; Métraux 1948). “In the hands of the shamans, myths are not merely sacred tales or stories, but things with inherent power, and it is upon these myths that shamanic spells are based” (S. Hugh-Jones 1979: 33). In his analysis of cosmology and ritual among the Barasana Indians of Colombia, Stephen Hugh-Jones presents a set of relations between powerful shamans, large houses or communities, large dance plazas or ceremonial spaces, and great spheres of influence within and across communities (S. Hugh-Jones 1979: 33–38). Among the Tupinamba, Métraux noted that “some shamans rose to political power, exercising unchallenged authority in their communities or even in large districts” (Métraux 1948: 130).

Cosmology is a component of ideology. Cosmos, axis mundi, spirit world, rituals, myths and legends, etc. are presided over, interpreted by, and controlled by the shaman. During Saladoid times, when the egalitarian ethic was clearly the model, substantial material rewards were not a relevant aspect of the system. Differences in social status, other than age and sex, were transitory and limited to brief interludes in the otherwise sameness of social existence. Given the proper set of circumstances, however, it is not difficult to understand how Saladoid cosmological organization can be manipulated. The shaman, as trickster, takes on an additional, hidden role as power broker (Dole 1973).

Barbara Bender’s notion of “drift” is relevant in this context:

It is possible for there to be drift between an ideology based on an ethos of generosity, of status that has no material rewards, of demands made upon the individual in the name of the community, and reality where demands become more onerous and less equally distributed, and power is displayed in terms of marital affiliation or ability to control esoteric knowledge (Bender 1990: 251, emphasis in original).

Table 1. Temporal distribution of burials from the Maisabel cemetery. Those burials for which radiometric assays are available have the laboratory number given; the remainder are dated by associated diagnostict artifacts or by spatial context.

<table>
<thead>
<tr>
<th>Cultural affiliation</th>
<th>Burial no. (C-14 lab no.)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Saladoid Series</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hacienda Grande (A.C. 400)</td>
<td>9*, 14 (AA-6809), 28</td>
<td>3</td>
</tr>
<tr>
<td>Cuevas (A.C. 400–600)</td>
<td>1 (AA-6805), 6 (AA-4098), 10 (AA-4100), 15 (AA-4102), 17 (AA-6810), 19A, 19B, 19C*</td>
<td>8</td>
</tr>
<tr>
<td>Saladoid/Ostionoid transition</td>
<td>2 (Beta-15886), 5 (AA-4102), 16 (AA-4103), 21 (AA-4107)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Ostionoid Series</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monserrate (A.C. 600–900)</td>
<td>3 (AA-4096), 4 (AA-6806), 7 (AA-6807), 22 (AA-6811)</td>
<td>4</td>
</tr>
<tr>
<td>Santa Elena (A.C. 900–1200)</td>
<td>11 (AA-6808), 12, 20 (AA-4106)</td>
<td>3</td>
</tr>
<tr>
<td>Undifferentiated Ostionoid</td>
<td>13†</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>23</td>
</tr>
</tbody>
</table>

* The AMS C-14 dates associated with these burials contradicted the styles of ceramic vessels placed with the individuals. Given the high glycine depletion ratios for these dates I have chosen to use the ceramic styles in assigning these graves to cultural complexes.

† Owing to the non-specific style of associated pottery this burial could be assigned only to a cultural series.
Figure 8. Uncalibrated radiocarbon dates obtained from Maisabel, displayed by site region.
Ideology in Prehistoric Puerto Rico/Siegel

Control of esoteric knowledge is important on the part of politically motivated individuals. Cosmic "journeys" by shamans to "far away spiritual realms" are one way that these individuals control a special form of esoteric knowledge (Helms 1988: 47).

Returning to Saladoid village organization we find that the most elaborate artifacts are deposited in mounds surrounding the cemetery (Chanlatte Baik 1979, 1983; Rainey 1940; Rouse 1952a, 1952b; Siegel 1992). It is as if everybody is revered in death. Among funerary cults in general, enormous amounts of sumptuary or "valuable" items are often funneled into burials, thus pulling them out of circulation and thereby maintaining the high value of the objects (Coe 1975: 193). This observation may apply in the Saladoid context, with the proviso that sumptuary items do not go to certain individuals but to the group. Earle has observed that "it is probably not coincidental that the first ceremonial architecture seems to have been for activities creating and reinforcing community bonds rather than stressing differences" (Earle 1989: 86).

Ideology and Culture Change in Prehistoric Puerto Rico

In contrast to the Saladoid pattern, the succeeding Ostionoid settlement system appears to be more functionally diverse (Goodwin and Walker 1975: 93; Ortiz Montañez 1986a, 1986b; Rouse 1952a: 360; Wilson 1989). We now see a range of habitation site sizes, specialized activity camps, and ball court/plaza sites. There is no consensus as to whether the sites containing ball courts or plazas or both were entirely ceremonial or were also places of habitation (Alegria 1983; Rouse 1952a). There is no question, however, that the development of the ball courts and plazas is intimately connected to the ideological sector of society and that the elaboration of these features through time is also correlated with political changes (Table 2). The increasing complexity and size of the ball courts/plazas, the amounts and kinds of ritual paraphernalia associated with them, and the apparent development of a ball court site hierarchy through time all suggest a
had a ball court or embarked on a landscaping program for their ceremonial areas. At Maisabel, we find instead that the central plaza area was recognized as a sacred space throughout the occupations of the site (TABLE 1, FIG. 8).

Finally, by the late prehistoric and the protohistoric periods, ball courts and plazas were highly developed, with elaborate ceremonies and rituals revolving around them. Burials were no longer placed within enclosures but within mounds (Fewkes 1907; Las Casas 1951; Oviedo 1950). This is a complete inversion of the Saladoid pattern.

Ethnohistorical documents indicate that ceremonies and rituals associated with the ball courts centered on the veneration of ancestors (Fewkes 1902, 1907; Joyce 1916; Las Casas 1951; Oviedo 1950). Further, these rituals were orchestrated and controlled by caciques (chiefs) (Fewkes 1902: 508; Joyce 1916: 205). By controlling rites and ceremonies dedicated to ancestors, the chiefs became intercessaries between the ancestors (who are now deities) and the rest of society. They were power brokers in control of such valuable commodities as myths and rituals. These were not just any ancestors, but those of the chiefs (Oviedo 1950: 131). Thus, there was a genealogical association between chiefs, apotheosized ancestors, and the spirit world. The chiefly lineages had a vested interest in maintaining this perception.

At the time of Spanish contact, power relations and authority had been narrowed to specific lineages within Classic Taíno society. Power and authority were monopolized by caciques and their retinue through carefully planned marriages and control over esoteric knowledge (Wilson 1990b). Inequality was both institutionalized and kin-based and was legitimized by ideology. Temples were built, into which only the cacique and his priests were allowed access (Bourne 1906; Colón 1947). Within these buildings special calaboa rituals were enacted in order to commune with the caciques’ ancestors. The ideological “performance” becomes physically and psychically inaccessible to those outside of the building.

Specific classes of artifacts associated with these rituals reveal a temporal continuity in the rituals from the early ceramic age to Contact, and spatial continuity from South America to Hispaniola (Alegria 1983, 1986; Arrom 1974, 1975; Fernández Méndez 1972; Gómez Acevedo and

1. Burials are frequently found in Saladoid mounded middens surrounding the central plaza. These middens, however, are not burial mounds. They represent the gradual layering of cultural material over a long period of time, rather than short-term earth-moving projects. The middens contain the most elaborate items fabricated during the early ceramic-age, including, at Maisabel, the only archaeologically documented specimen of guanin, a gold-copper alloy artifact, recovered in the West Indies (Siegel and Severin 1993).
Table 2. Characteristics of community and ideological organization as they relate to hypothesized levels of sociocultural integration and to mortuary practices during the prehistoric ceramic age in Puerto Rico.

<table>
<thead>
<tr>
<th>Social organization</th>
<th>Community organization</th>
<th>Ideological organization</th>
<th>Disposal of the dead</th>
<th>Cultural complex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tribe/complex tribe</td>
<td>Village-oriented, central plaza ringed by communal houses</td>
<td>Ancestor worship; egalitarian ethic</td>
<td>Community based; central plaza area</td>
<td>Hacienda Grande, Cuevas</td>
</tr>
<tr>
<td>Complex tribe/simple chiefdom</td>
<td>Small village-large village-ball court</td>
<td>Ancestor worship; incipient aspiritive social inequality</td>
<td>Community based; ball courts</td>
<td>Monserrate, Santa Elena</td>
</tr>
<tr>
<td>Simple chiefdom/complex chiefdom</td>
<td>Polity-based, village hierarchy</td>
<td>Ancestor worship with ideology of domination</td>
<td>Clan-based; mounds; socially partitioned spatially and by grave goods</td>
<td>Esperanza, Capá, Boca Chica</td>
</tr>
</tbody>
</table>

Ballesteros Baibrois 1978; López-Baralt 1985; Stevens-Arroyo 1988; Wilbert 1987). Intrasite spatial analysis reveals a remarkable coherence in village organization spanning hundreds of years, several major cultural complexes, and tribal to chiefdom-level sociopolitical organizations. Examining village organization indicates that cosmology was the cohesive element, spatially and temporally (Table 2). Communities were organized on a concentric plan, with their central areas reserved for the sacred.

It is safe to assume that ancestor worship was a major integrative institution during the prehistoric ceramic age of Puerto Rico. Like Native American communities in South America, the central portions of villages functioned as world trees, connecting the various spheres of the cosmos. It is within this domain of cosmology and ideology where social and political changes were legitimized.

Ethnological documents reveal a considerable amount of competition and political maneuvering among Taino chiefdoms. Chiefly lineages appear to have been funded through hierarchies of systematic tribute relations (Moscoso 1981). Although a discussion of Taino tribute flow is beyond the scope of this paper, it is important to recognize that labor and resources were mustered by nobility at specific settlements within their own polities. These settlements had at least one ball court or plaza and the tribute exchange process seems to have revolved around the veneration of chiefly ancestors (Alegria 1983; Wilson 1990a).

**Summary and Conclusions**

Concepts of sacred time and sacred space permeate every aspect of Native American life. Human growth and development, kinship relations, seasonal changes, plant and animal propagation, birth, death, etc. are imbued with meanings that are both metaphorical and didactic. Rites of passage, ancestral genealogical associations, myths, ceremonial activities, and specific aspects of the natural and cultural landscape serve as mechanisms and cues to identify the sacred.

The initial ceramic-age occupants of the West Indies structured their communities with these concepts in mind. The central portions of their settlements, made sacred by a cemetery, clearly functioned as an arena for public ceremony. The centralized cemetery takes on the role of axis mundi. The dead become spirits and, with time, sacred ancestors.

The development and complexity of ceremonial space in prehistoric Puerto Rico is a process which began in the Saladoid period. This process, spanning some 14 centuries, reflects the consolidation of power into increasingly more narrow social segments.

There is an interplay between the effects of self-serving power brokers, like shamans, priests, and chiefs; culture change; and the development of complex society. Effective control by power brokers over increasingly larger spatial (territorial) domains results in a powerful “ideology of domination” (Moscoso 1981). The chief’s grip on power is contingent on his or her ability to monopolize control over critical resources. Wilson’s (1990a, 1990b) study of the carefully calculated Taino elite intermarriages emphasizes the importance of maintaining and further consolidating power. The elaborate tributary relations observed at Contact among the Taino Indians are a product of this control. Myth, ritual, and cosmology, as a complex, constitute this ideology.

In this West Indian example we see the evolution of power relations revolving around changing conceptions of ideology. During early Saladoid times, ideology was based on an egalitarian ethic. At Contact, the ethic had shifted to one of domination. At the heart of these two extremes is the same cosmological structure, evidenced in the use of specific artifact classes and by the internal organization of
communities. The use of this cosmology was intensified through time, as politically motivated leaders exploited its manipulative aspects.

The history of culture in the West Indies indicates that ideology was a model, an interpretive framework, and, in general, an organizational device, around which people related to each other and to the cosmos. I am not suggesting that ideology be viewed as a prime mover in culture change. To the contrary, demography, economic and social organization, technology, and ideology are intimately linked. The challenge for studies in the future is to explore the linkages between these domains of specific cultures and how they are represented in the archaeological record.

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