RETURN TO MOXVIQUIL: FORM AND FUNCTION IN A SMALL MAYA CITY

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Abstract

The excavations of Frans Blom and Clarence Weiant at the small hilltop site of Moxviquil in the early 1950s represent one of the pioneering archaeological projects in highland Chiapas. The results of their excavations, which were minimally published, provide important data on one of the largest Late Classic-Early Postclassic communities in the region. In this paper, we reconsider Moxviquil in light of recent scholarship on Maya urbanism, and present new interpretations of the site as a small city that fulfilled a diversified set of urban functions for residents both within the monumental zone itself, and in the surrounding hinterland areas. Consistent with its likely role as the administrative center of a small, independent highland polity, the monumental center of Moxviquil likely served political, economic, and ritual functions; was an important nucleus of residential settlement; and supported a wide range of household-based craft production and food preparation activities.
of a dispersed, rather than orthogonal, city plan (Andrews 1975; Marcus 1983; Smith 2011). Such models also recognize a diverse range of urban features in Maya cities such as neighborhoods or barrios (Chase 1992; Masson and Peraza Lope 2014; Smith 2011; Smith et al. 2012), internal streets and roads (Bullard 1954; Chase and Chase 2001; Keller 2011; Masson and Peraza Lope 2014; Russell 2008), marketplaces (Dahlin et al. 2007, 2010; Masson and Freidel 2012; Ruppert 1970), and urban water management systems (Barnhart 2001). Recent research has recovered a range of typological schemes (Fox 1977) that characterize Maya cities as “regal-ritual centers” with few bureaucratic or economic functions, instead favoring approaches that recognize the spatial complexity and functional diversity of Maya cities.

Employing a functional definition of urbanism enables a consideration of variation in the type, number, and various combinations of functions found in Maya cities (Smith 2008). A functional definition of urbanism permits greater comparisons between the forms and functions of different sizes of urban settlements, from large to small cities and towns. Small cities and towns are at the “middle level of settlement” (Iannone and Connell 2003:3) between the extremes of large cities and dispersed rural residences. It is also worth recognizing that cities and towns may grow and change over time, and that in some cases, “minor centers” may be absorbed into the settlement of these larger urban centers as they expanded in size, often performing administrative functions for outlying neighborhoods or barrios (Laporte 2003; Marcus 1973).

A more recent focus on smaller cities and towns in ancient Mesoamerica has raised the issue of the formal and functional heterogeneity of small cities and towns, particularly regarding the hierarchical and heterarchical relationships between them (Crumley 2003; de Montmollin 1989). Where cities functioned as administrative centers, they could operate autonomously as polity capitals, often as part of city-state or small-polity networks (Nichols and Charlton 1997; Smith 2003) or as provincial centers within larger sociopolitical entities (Berdan and Anawalt 1992; Smith 2008), and the political autonomy of these cities may also have varied over time (Marcus 1989, 1993). Still other cities and towns may have had minimal administrative functions, emphasizing instead activities such as water management, agricultural production and storage, political border management or military garrisons, market centers, specialized craft production centers, religious centers, or nucleated residential settlements; similarly, the focus of activity at any given city or town may have changed over time (Iannone and Connell 2003:4).

Iannone and Connell (2003:4) suggest making a distinction between centers with a balanced range of administrative, productive, redistributive, and ritual functions (referred to hereafter as diversified centers, comparable to Connell’s 2003 “full-service centers”), versus centers with a highly specialized primary function within a larger system of interaction (referred to hereafter as specialized centers). Evidence from central Mexico suggests that while most Aztec city-state capitals were diversified centers, a few specialized centers also existed. Smith (2008:175) has argued that most Aztec cities provided administrative and religious urban functions for their surrounding polities, and also served as commercial centers for regional trade in grains and other foods, utilitarian goods, and luxury goods. Aztec cities, however, varied widely in the diversity and scale of craft production they supported. Cities such as Tenochtitlan, and specialized centers such as Otumba, supported an unparalleled scale and diversity of specialized craft industries, while other cities such as Xautepoc and Xaltocan supported only a few specialized craft activities (Smith 2008:182). Hirth (2000:279) argues the Early Postclassic city of Xochicalco was predominantly an administrative and commercial center, and that its residents were primarily consumers, rather than producers of goods; craft production activities at the site consisted mainly of obsidian tool production and the creation of sumptuary goods from marble, slate, and other semiprecious materials. Similar patterns have been noted for the Maya cultural area, particularly for sites in Belize, where scholars have recently focused on these theoretical concerns. The Classic-period component of Colha (Hester and Shafer 1984; Shafer and Hester 1983, 1986, 1991) in central Belize represents an example of a specialized chert tool production center, while the Classic-period site of X-ual-canil in the Belize Valley represents a specialized administrative center for water management (Iannone 2003:25). Conversely, other cities and towns, including larger cities such as Xunantunich, Cahal Pech, Caracol, and smaller towns such as Zubin, represent centers where a more diversified range of administrative, residential, ritual, and economic activities took place.

Rather than two discrete categories of minor centers, the degree to which centers had a specialized versus diversified function should be considered as the endpoints on a continuum of variation. Multiple lines of data can be used to evaluate the degree of specialized site functions, including architecture, artifacts, mortuary deposits, and settlement patterns (Iannone 2003:14). For example, lines of evidence used by the investigators to suggest that X-ual-canil had a specialized water management and administrative function include a combination of large water reservoirs; the presence of architecture usually found at larger urban centers such as administrative buildings, a ballcourt, a sakbe (causeway), and a large elite platform residence; and the lack of many ritual deposits common to Classic period Maya lowland sites, such as an eastern shrine and secondary mortuary deposits suggesting ancestor worship and the establishment of claims to land (Iannone 2003:19). With the exception of temporary work camps, such as quarry sites, the residential aspect of settlement will correlate with some diversification of activities, particularly those related to production and consumption for internal household reproduction. Even at Colha, arguably one of the most specialized centers in the Maya lowlands, high-volume chert tool production was integrated into residential spaces, and the site also contained a small monumental precinct with small ceremonial structures and several courtyards (Shafer and Hester 1983:521). It is the systematic patterning of similar or complementary activities at multiple loci throughout a settlement that suggests a community orientation around a specific activity or set of activities. In diversified centers, particular activities may have been practiced at the scale of an individual workshop, household, occupational specialist, or non-specialist household member, rather than as a focus of activity at the community level.

Particular urban forms and functions in Mesoamerican cities and towns could be emphasized through the selective utilization of topography, including both natural topography in the case of hilltop or ridgetop centers, and artificial topography as created through terraces, platforms, and high buildings. Numerous Maya cities throughout both the highlands and lowlands reflect the strategic positioning and modification of hilltop and ridgetop topography, including (among many others) large cities such as Tikal (Scarborough 1998), Palenque (Barnhart 2001), Tonina (Becquelin and Baudez 1979–1982; Becquelin and Taladoire 1982), Bonampak (Piña Chan 1961), and Uxatlán (Wallace and Carmack 1977), as well as smaller cities such as Zacpeten (Pugh...
THE MONUMENTAL CENTER OF MOXVIQUIL

The small monumental center of Moxviquil is situated in a rugged and mountainous area in the Central Highlands zone of Chiapas, and sits atop a hill on the northern edge of the Jovel Valley, the location of the modern city of San Cristóbal de las Casas (Figure 1). The Jovel Valley lies at one of the highest points in the Central Plateau at an altitude of 2,140 m asl near the city center, with limestone hills and escarpments surrounding the valley on all sides, while the Volcán de Huitepec dominates the southwestern skyline of the valley as an extinct volcanic cone created through the movement of a geological “hot spot” (Aubry 2008).

The Jovel Valley lies on the western frontier of the Maya cultural region, in close proximity to several different climatic, geographic, and cultural zones. Running parallel to the Central Highlands (Los Altos), immediately to the south and west of the highlands, the Ixtapa Valley lies at 900 m asl, resulting in a milder, more tropical climate. The Ixtapa Valley was likely Mayan-speaking, but indicates strong ties to the Zoque-speaking areas to the west prior to the end of the Late Classic period (A.D. 700–1000) (McVicker 1969). Further still to the south and west lies the Central Depression of Chiapas, created by the Grijalva River Valley, which runs through its center (Bryant 1988:1), and was likely occupied by Zoque-speaking populations prior to the arrival of the Chiaapanecs around A.D. 900 (McVicker 1969). Further south still lies the predominantly Mixe-Zoque speaking Sierra Madre de Chiapas and the Pacific (Soconusco) Coast. In contrast, the areas to the north and east were inhabited by Mayan-speaking populations. To the east, numerous Tzotzil and Tzeltal Mayan-speaking populations inhabited the neighboring areas of highland Chiapas, the Comitan Plateau, the Upper Grijalva River Valley, the Cuchumatan Mountains, and highland Guatemala (Bryant 1988:1; West 1964:65). Further still to the north and northeast, the highlands gradually give way to hot, swampy lowlands of the Gulf Coast of Tabasco and the tropical lowlands of the Usumacinta River Valley (Bryant 1988:1; Piña Chan and Navarrete 1967).

Archaeological and ethnohistorical data suggest that highland Chiapas never sustained the larger, denser settlements of neighboring lowland areas, due in part to its high altitude, cold temperatures, and seasonal rainfall, resulting in relatively short agricultural growing seasons compared to the Central Depression and other lowland environments (Calnek 1988). Instead, the highlands sustained a patchwork of small polities during the Late Classic (A.D. 600–1000) and Postclassic (A.D. 1000–1524) periods, which appear to have been politically autonomous (Adams 1959, 1961; Culbert 1965; McVicker 1969, 1974; Paris 2012). Several other sites in highland Chiapas date to the Late Classic-Early Postclassic transition and represent small hilltop cities of similar size as Moxviquil, including Ecatepec on the southwest edge of the Jovel Valley (Adams 1961; Culbert 1965), Yerba Buena and Rancho San Nicolas near the Amatenango Valley to the southeast (Adams 1961; Bryant 1988; Culbert 1965), San Gregorio in the Tzaconeja Valley to the northeast (Culbert 1965), and La Tortuga, Campo de Aviación, and V.S.2 in the Ixtapa Valley (McVicker 1969). Geographically, the nearest large Late Classic or Early Postclassic period cities to the Jovel Valley include Tonina to the east and Tenam Puente to the southeast; however, there is currently no evidence to suggest that highland sites were politically subordinate to either center.

Data on the Moxviquil monumental center comes from excavations of Frans Blom and Clarence Weiant, undertaken over two seasons from 1952 to 1953 (Blom 1893–1963, 1952a, 1952b, 1953a, 1953b, 1953c, 1954a, 1954b, 1958, 1959; Blom and Weiant 1953, 1954; Blom et al. 1995; Evening Star 1954; Notes and News 1954; Weiant 1952, 1953a, 1953b, 1954a, 1954b). Their approach to the excavations reflected the explorer/adventurer perspective that pervaded in that era; the research lacked a problem-oriented design, excavations were placed for the maximum likelihood of finding tombs, structures were trench and not consolidated or restored, drawings and photographs were made and taken only of the tombs and the largest and most elaborate structures, artifacts were incompletely analyzed, and the results were never fully published. Yet, as the archaeological remains at Moxviquil have suffered from extensive looting, logging activities, and erosion over the years, the results of Blom and Weiant’s excavations become still more significant as potentially our best, or even last, source of knowledge about this monumental center.

Blom was a Danish archaeologist and explorer, who moved to San Cristóbal de las Casas in 1950 with his wife, Swiss journalist and cultural anthropologist Gertrude Duby. His attention was first drawn to the site of Moxviquil by Licenciado Herminio Santiago Vital, a local teacher, who showed him a sherd incised with glyphs taken from the site. A visit to the site convinced him of its archaeological potential. He recruited Weiant, a chiropractor and amateur archaeologist, who had previously excavated with Matthew Stirling at Tres Zapotes, and then with Alfonso Caso at Monte Albán (Brunhouse 1976). In 1952, Blom and Weiant were able to obtain funding and excavation permits to begin their project. They began by clearing a wide swath of forest along the north-south axis of the monumental center of the site, traversing the northern hillslope to the apex of the hill and the Upper Plaza (Figure 2). Next, Blom recruited school children from San Cristóbal and the adjacent village of Ojo de Agua, to hike up the

2001), X-ual-canil and Zubin in the Belize Valley (Iannone 2003: 25), Topoxte (Wurster 2000), Canajaste (Blake 1985, 2010), and sites in highland Chiapas such as Ecatepec (Culbert 1965), Yerba Buena (Bryant 1988), La Tortuga (McVicker 1969), and Campo de Aviación (McVicker 1969). Other notable hilltop sites in Mesoamerica include Xochicalco (Hirth 2000), Calixtlahuaca (Smith et al. 2009), and numerous sites in the Valley of Oaxaca from the largest site in the valley, Monte Albán (Blanton 1978; Flannery 1983), to relatively smaller sites such as El Palmillo (Feinman and Nicholas 2007; Feinman et al. 2006; Feinman et al. 2008) and Ejutla (Feinman and Nicholas 1992, 2000, 2007). Social and economic status divisions were often reinforced by topography, in which ceremonies, ritual activities, consumption, and high-status residences were often located in the upper topographic levels or terraces, and production activities and lower-status residences were located in the lower levels or terraces (Feinman et al. 2008). Similarly, distinctions in socioeconomic status and activities could be created within large, internally diverse monumental architecture at sites such as Calakmul (Folan et al. 2001:Figures 3 and 4), Tonina (Becquelin and Baudez 1979–1982; Becquelin and Taladoire 1982), and Caracol (Chase and Chase 2001). At these sites, the strategic use of topography was combined with the use of built architecture to organize either diversified or specialized activities. Below, we present data from the small hilltop monumental center of Moxviquil in the Jovel Valley of highland Chiapas, and argue for a diversified set of administrative, economic, residential, and ritual activities that were organized through a strategically built landscape.
mountain on Saturdays and scour the woods, collecting artifacts from the surface. Excavations in the 1952 season focused on the “Western Pyramid,” a small stone temple on the western edge of the Upper Plaza. A second and more extensive season during 1953 focused on the northern and southern temples of the Upper Plaza, the monumental staircase, the residential terraces, and the temples surrounding the Main Plaza. At the conclusion of the 1953 season, the artifacts, maps, photographs, and documents from the excavations were stored or displayed in the Museo Na Bolom, former residence of Blom and Duby in San Cristóbal de las Casas, now a museum, hotel, and nonprofit organization. At later dates, George Brainerd (ceramics), Thomas Lee Whiting (lithics), and Sean Brady and his colleagues, Ignacio J. March and Sven M. Aden (fauna), made inventories of select artifact types. In 2006 and 2008, Elizabeth Paris spent several months cataloguing, organizing, and re-analyzing the Moxviquil artifacts, and we believe that the results of these efforts will finally disseminate the work done by Blom and Weiant to a broader audience and refocus the results to address new theoretical questions in Mesoamerican archaeology.

Recent excavations by Paris and López Bravo (Paris 2012) have documented that settlement at Moxviquil also included both elite and commoner residential settlement on four additional hilltops and ridgetops to the north and west of the monumental center, extending the area of known settlement for Moxviquil to approximately 5 km². Survey and excavation suggests that as at the monumental center, residential zones were concentrated on hilltop areas and broad intermountain terraces, and were located on areas that contained artificial earthen or limestone rubble terraces. Because of seasonal flooding in intermountain saddle areas, residences were not located in lowlying saddle areas between hilltops, but were concentrated on higher hillslopes and ridgetops. In contrast to the monumental center, these hilltops lacked public architecture and appear to have been exclusively residential areas.

FRAMING THE LANDSCAPE: THE ARCHITECTURE OF THE MOXVIQUIL MONUMENTAL CENTER

The monumental center of Moxviquil was constructed along a north-south axis along the apex, northern slope, and base of a large hill on the northern edge of the Jovel Valley (Figure 2). The Upper Plaza of Moxviquil sits at the apex of the hill, at 2,328 m asl, while its Main Plaza, located in the saddle at the northern base of the hill, sits at an altitude of 2,300 m asl (Paris 2012). While the northern slope of the hill is relatively gradual, the other three sides are steep and could have provided natural defenses in times of conflict. On the western slope, a small arroyo called Ojo de Agua flows in a deep ravine, while the eastern slope is slightly more gentle, and paths accessing the main plaza (modern, and

Figure 1. Map of the Maya region showing the location of Moxviquil and other sites mentioned in the text. Map by Elizabeth Paris.
likely ancient as well) provide access from the valley floor from this direction. To the north of the mountain lie two natural streams on either side of the Main Plaza, one called “la cordillera de Chupactic,” named after the Ejido Chupactic, the indigenous community that collectively owns the land (Blom 1952b).

The form and organization of architecture found at the monumental center of Moxviquil suggest that they likely served a variety of functions for its own residents and for the surrounding residential areas of the site. The monumental center can be conceptually divided into three zones: an Upper Plaza at the apex of the hill, which likely fulfilled administrative and elite residential functions; a residential zone located on artificial terraces traversing the hillslope connected by a large monumental staircase; and a public monumental zone in the saddle at the base of the northern hillslope. These three zones are described in detail below.

The Upper Plaza

The administrative-elite residential zone at the apex of the hill consisted of the Upper Plaza (Blom 1952b), a group of four structures

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Figure 2. Map of the monumental center of Moxviquil (digitally redrafted by Elizabeth Paris from the unpublished original by Frans Blom). Updated altitude data, recorded by Paris in 2009 with a Garmin Vista HCx GPS unit, suggest an altitude of 2,328 m asl for the Upper Plaza, and 2,300 m asl for the Main Plaza (from Paris 2012).
around a small and square (20 \times 20 \text{ m}) courtyard. The hilltop was artificially flattened to create a broad terrace (Terrace 5). The Upper Plaza was dominated by the Western Pyramid (also referred to as “Structure A” and “The Sanctuary” in Blom and Weiant’s records), a small rectangular shrine with an 8 \times 9 \text{ m} base located on the western side of the plaza (Blom 1953b). An axial trench excavated by Blom and Weiant through the center of the Western Pyramid mound revealed a small, three-level pyramid topped by a rectangular structure with low, thick masonry walls (Weiant 1952, 1954a:31), suggesting that upper portions of the structure’s walls may have been of wattle-and-daub construction, with a thatched roof (Weiant 1954a). The stepped platforms supported a rectangular masonry structure, with a masonry staircase leading to a single room (2 \times 1.25 \text{ m}) that contained a large bench that filled the rear half of the structure (Weiant 1954a). At Maya lowland sites such as Tikal, benches are often considered to have functioned as thrones in administrative structures (Harrison and Andrews 2004:141). The structure was associated with a number of artifacts (Figure 3), including a ceremonial Totonac-style hacha in the shape of a human head, made of fine-grained limestone, and deposited in the fill under the steps of the structure (Evening Star 1954). The bench/throne of the interior room was associated with small stone sculptures (Weiant 1952, 1954a:31), an elaborately modeled clay figurine depicting an elderly man with facial tattooing and filed front teeth (Blom 1954b), and a small decorated jar. The opposing structure on the eastern side of the plaza (the “Eastern Pyramid”) may have once resembled the Western Pyramid. This structure has been completely looted and destroyed, an event that Blom’s workmen claimed to have occurred sometime in the early 1900s (Weiant 1954a).

Structures on the northern and southern edges of the Upper Plaza suggest that they may have served as residential areas for high-ranking individuals, possibly the site’s ruler and family. On the northern side of the plaza, the “Northern Pyramid” (also referred to as Mound 1) was a long, low mound measuring 12 \times 4 \text{ m} in plan view (Blom 1953b). The excavation of a large axial trench revealed a rectangular tomb with masonry walls, named Tomb 1 (Table 1). Tomb 1 contained neither artifacts nor human remains, and was located directly beneath an Early Postclassic period floor at the southern edge of the mound, inside the plaza. Excavations at the “Southern Pyramid” (also referred to as the “South Mound”) suggested a structure nearly identical to the Northern Pyramid, which was associated with the highest proportion of tombs and caches found at the site. Weiant and his workers excavated an axial trench through the center of the 12 m-long mound, beginning approximately 3 \text{ m} east of the center, and encountered a wall running the same direction as the trench (Evening Star 1954; Weiant 1954a); a similar, parallel wall was excavated on the west side (Weiant 1954a). These parallel walls delimited two stratified stucco floors (Weiant 1954a); the burials and caches were located between or beneath these floors.

The tombs and caches recovered under the floors of the “Southern Pyramid” included some of the richest offerings found at the site, and included Tombs 3, 4, 5, and 6, and Cache 2 (Table 1). The masonry slabs composing Tomb 3 were observed by Weiant to be protruding from the highest stucco floor (Evening Star 1954) of the Southern Pyramid. Tomb 3 contained two incomplete human skeletal elements: a fragment of an unfused juvenile occipital cranium fragment, and the shaft of a juvenile human tibia with unfused epiphyses (mistakenly interpreted by Weiant as an animal bone) (Evening Star 1954). This suggests that these elements may represent the secondary interment of at least one juvenile elite individual (probably age 10 or younger). The tomb also contained a number of offerings, including two elaborately modeled incense burner covers depicting deities or elite individuals with facial tattoos, elaborate headdresses and eartpools (Evening Star 1954) (Figure 4). Between them lay a white ceramic bowl with an incised design around the rim containing hieroglyphic elements and an annular rattle base belonging to the ceramic type Provincia Plano-Relief: Unspecified Variety.

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**Figure 3.** Artifacts from the “Western Pyramid” including a Totonac hacha carved in the shape of a human head in profile, a small Chax Modeled: Chax Variety jar, and a figurine with facial tattooing. Photos by Elizabeth Paris and Frans Blom. Reproduced with permission from the Asociación Cultural de Na Bolom.
This type is an incised variant of Balancan Fine Orange Ware, which was produced in the Gulf Coast region and exchanged with surrounding regions during the transitional period from the Late Classic to the Early Postclassic (formerly known as Fine Orange Z) (Smith 1958). Lying in the bowl was a headless figurine of a ballplayer in full regalia. The funerary offerings also included a small mano, and five olive shell tinklers with small perforations.

Table 1. Burials excavated at the monumental center of Moxviquil by Blom and Weiant (1952–1953)

<table>
<thead>
<tr>
<th>Burial</th>
<th>Location</th>
<th>Date</th>
<th>Type</th>
<th>MNI</th>
<th>Offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burial 1</td>
<td>Northern Mound</td>
<td>Early Postclassic</td>
<td>unknown (empty)</td>
<td>0</td>
<td>none</td>
</tr>
</tbody>
</table>
| Burial 2 | Monumental Staircase (between Terraces 2 and 3) | Late Classic | secondary | 2 | a. Cylindrical Vase, Unknown Type  
b. Outflaring flat base dish, Pues Pseudo-glyph: Pues Variety |
| Burial 3 | Southern Mound | Late Classic-Early Postclassic | secondary | 1 | a. Two anthropomorphic incense burner covers, Unknown Type  
b. Anthropomorphic figurine with bird headdress  
c. Outcurving annular base bowl with incised glyphs, Provincia Plano-Relief  
d. Ballplayer figurine  
e. Five olive shell tinklers  
f. Small groundstone mano |
| Burial 4 | Southern Mound | Late Classic | secondary | 5 | none                                                                      |
| Burial 5 | Southern Mound | Late Classic | secondary | 2 | a. Tripod dish with negative painting, Unknown Type  
b. Cylindrical Vase with incised glyphs, Undesignated Fine Orange |
| Burial 6 | Southern Mound | Late Classic-Early Postclassic | secondary | 0 | a. Incurving annular base bowl, Provincia Plano-Relief |
| Burial 7 | Cave (500 m west of monumental center) | Early Postclassic | secondary | 2 | none                                                                      |
| Burial 8 | Unknown | Unknown | primary | 1 | a. Wooden staff |

Figure 4. Contents of Tomb 3 from the Southern Pyramid, including two anthropomorphic effigy burner lids, a ballplayer figurine, a Provincia Plano-Relief: Variety Unspecified outcurving bowl with rattle base and hieroglyphic incised design, five olive shell tinklers, and two juvenile bone fragments including an unfused cranial fragment and a tibia with unfused epiphyses. Photo by Frans Blom. Reproduced with permission from the Asociación Cultural de Na Bolom.
In the stratum below Tomb 3, Weiant and his workers encountered a second masonry tomb, named Tomb 6. This tomb contained a small white-slipped bowl with geometric design and an annular base (also Provincia Plano-Relief: Unspecified Variety) (Figure 5); excavation records suggest that no human remains were present in the tomb. The location of Tomb 6 was slightly offset from Tomb 3 by 25 cm to the south and 25 cm to the east. The tomb was superimposed over a stucco floor, which covered the entire platform. Below this stucco floor, immediately north of these two tombs was Cache 2 (Figure 6), a hollow cubic cavity constructed of uncut limestone masonry blocks in a style identical to the tombs (Weiant 1954a). Cache 2 contained two cylindrical vessels, one inside the other, of unidentified ceramic types. The larger vessel was a Fine Orange vase with geometric incised decoration; the smaller vessel was decorated through two techniques: a bright red slip on the rim with a white and black geometric design on the body achieved through the "lost-color" process (negative painting), and covered with a layer of stucco painted pale green with dark red circular blotches. Standing upright beside these vessels was a shallow grayware dish with a stamped pseudo-glyph design, a type that has recently been designated as Pues Pseudo-glyph, and is a Late Classic type associated with sites in the Upper Grijalva River Valley (Bryant et al. 2005).

A third masonry tomb, designated Tomb 4, was encountered during excavations by Weiant and his workers along the edge of, and under, the stuccoed floor connecting the two walls of the Southern Pyramid (Evening Star 1954). Tomb 4 was 5.15 × .52 m in size, and was located just over 1 m to the north of Tomb 3, and 90 cm north of Cache 2, below the stucco floor (Figure 7). The tomb contained the secondary interments of at least five individuals of various ages; skulls and mandibles were piled at each end, while the other bones were piled together in the center (Weiant 1954a:34).

Figure 5. Provincia Plano-Relief incurving bowl with incised geometric design, with an annular base with a step-fret motif. Recovered from Tomb 6 in the Southern Pyramid. Photo by Elizabeth Paris.

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Figure 6. Cache 2 and artifacts from the Southern Pyramid including a Pues Pseudo-glyph: Pues Variety plate and two cylindrical vases, one Undesignated Fine Orange vase and one Undesignated black-on-white negative painted cylindrical vase with a thin layer of dark red and green painted stucco. Photos by Elizabeth Paris and Frans Blom. Reproduced with permission from the Asociación Cultural de Na Bolom.
According to Weiant (1954a:34), the skulls exhibited “cranial deformation characteristic of many Maya individuals, in which boards were strapped to the forehead and under the base of the cranium.” Unfortunately, Weiant does not name the particular type of deformation exhibited. His description, however, is most consistent with parallo-fronto-occipital modification (Neumann 1942:Figure 37).

Weiant recovered a fourth masonry tomb, designated Tomb 5, further north of the other tombs. This tomb contained an exteriorly projecting masonry niche in the wall that held a tripod plate with three solid nubbin supports and negative painting (Blom 1953b).

It also contained a cylindrical vessel with an incised band of glyphs around the exterior (Figure 8). Human remains in Tomb 5 included a large (unspecified) number of femurs and tibias, piled in the center of the tomb, with the cranial fragments of at least eight people piled on top (Weiant 1954a:34). Two of the cranial fragments from this tomb are on exhibit at the Museo Na Bolom and were available for study. One fragment (Figure 8) likely represents the upper right maxilla of a young male with a newly erupted third molar and bifurcated dental modification of the incisors (Type I.1) (Buikstra and Ubelaker 1994:59; Rosario Acosta, personal communication 2009). The other fragment is a lower left mandible fragment, in which both premolars and LM1 are preserved, while LM2 and LM3 have fallen out, and the bone has been reabsorbed, suggesting that the individual was slightly older and/or had poor dental health.

The Residential Terrace Zone

Below the Upper Plaza, the slopes of the mountains were steeply terraced on all sides, simultaneously creating a series of defined architectural spaces, combating erosion, and reinforcing defenses. As discussed below in detail, Blom and Weiant’s excavations suggest that the terraces on the northern slope served as residential areas. The terraces on the southern slope were considerably steeper than those on the northern slope, and were not excavated by Blom and Weiant, so it remains uncertain whether they were also inhabited. Each of the five terraces on the northern slope of the hill was girded by a massive retention wall made from unworked limestone blocks, with a large monumental staircase (Figure 9) approximately 15 m wide running from Structure B to the Upper Plaza, connecting each terrace with the next (Weiant 1954a). The monumental staircase provided a highly centralized and formal mechanism for travel and communication between the terraces of the monumental zone. There was some discrepancy between Blom’s map and
Weiant’s description of the terraces in his articles and notes. Thus, Terrace 5, as labeled on the map, is Terrace 4 in Weiant’s notes, while Terrace 5 contains the Upper Plaza. The following description uses Weiant’s notes, descriptions, and labeling system.

Consistent with its close proximity to the Upper Plaza, excavations on Terrace 4 revealed dwellings with rich offerings. Excavations in the northwest corner of the terrace revealed architectural remains suggesting an elite residence, consisting of a stone wall and a stucco floor that had been painted red (Blom 1958). In the corner of the structure abutting the retaining wall of Terrace 5, Weiant and his workers discovered Cache 1 (Figure 10), which contained an elaborately incised cylindrical vessel depicting the Maya deity K’awiil in profile wearing an elaborate feather headdress, necklace, earrings, and carrying a woven mat under its arm. Smith (1958) classified this vase as belonging to the ceramic group Silho Fine Orange from the Gulf Coast (also known as Fine Orange X). The mouth of the vase was covered with an inverted Fine Orange tripod bowl, and within the vase were two jaguar fangs, two peccary tusks, two bone atlatl finger loops, and an obsidian blade (Weiant 1954a:34).

Further evidence of residential occupation was recovered on Terrace 3. Excavations recovered a broad terrace transected by the monumental staircase, containing a series of low masonry walls, which likely supported perishable wattle-and-daub superstructures with thatched roofs. Weiant (1954a:32) recovered dense deposits of artifacts in association with these structures that reflected a wide range of production activities and consumer goods. These artifacts are discussed in detail below; they included dense deposits of lithic tools, production implements, and debitage, including large quantities of projectile points in an array of sizes and styles, numerous chert nodules, partially modified flakes, production rejects and debitage, and deer antler tines likely used in flintknapping. Other artifacts recovered from this terrace included ceramic sherds, figurine fragments, spindle whorls, groundstone implements, and obsidian blades and prismatic blade cores (Figure 11). Weiant (1952:4) also notes the presence of similar types of domestic refuse on the surface of Terrace 2, such as “several beautiful incised sherds, obsidian flakes, an arrow point, several cabecitas (little [figurine] heads), and several mountains of culinary ware and plain sherds.”

As on the upper terraces, the lower terraces were also the site of ritual deposits including both tombs and caches. A masonry tomb, Tomb 2, was located on western edge of the staircase, about halfway between Terraces 2 and 3 (Table 1). The thin stone slabs covering the tomb had collapsed post-depositionally, crushing the skull and postcranial skeletal remains of an individual, and breaking a polychrome cylindrical ceramic vessel into hundreds of pieces (Blom 1954b:Vessel 93). The mortuary remains were likely a secondary burial, as they consisted of long bones piled in the center of the tomb (Blom 1953c). At the foot of the tomb, Weiant found a complete Pues Pseudo-glyph: Pues Variety dish, almost identical to the vessel found in Cache 2. Fragments of an adult cranium and three teeth from a juvenile mandible attributed to Tomb 2 are on

Figure 9. The monumental staircase connecting the terraces, with Weiant posing at the top. Photo by Frans Blom. Reproduced with permission from the Asociación Cultural de Na Bolom.

Figure 10. Contents of Cache 1, including a Silho Fine Orange annular base cylindrical vase with an incised panel depicting the Maya god K’awiil, an Undesignated Fine Orange tripod bowl, two jaguar fangs, two peccary tusks, two bone atlatl fingerloops, and an obsidian blade. Photo by Frans Blom. Reproduced with permission from the Asociación Cultural de Na Bolom.

1 The K’awiil deity on this vase was mistakenly identified as a death deity by Ruz Lhuillier (1968).
display at the Museo Na Bolom. The adult cranium exhibits tabular erect cranial deformation, and may be the skull mentioned in publications by Romero Molina (1970) and Comas (1960). The three juvenile lower incisors are complete and unmodified.

On the opposite (eastern) side of the monumental staircase, Weiant and his workers discovered another offering on Terrace 2, designated Cache 3. The description of its contents varies in the different notes and photos taken by Blom and Weiant, but based on labels on the artifacts themselves and original excavation photographs, the cache included numerous ceramic vessels, including three long-necked polychrome jars with opossum effigy necks (Yerba Buena Fine: Polychrome Variety), a direct rim bowl with gouged geometric decoration, an incurring annular base vase, an outleaning dish with incised geometric decoration, a Fine Orange annular base dish with a carved step-fret motif, and an outcurving Ixtapa Orange bowl (Figure 12).

Terrace 1 contained post-conquest remains, including a Colonial period chapel and a corn silo possibly dating to the late nineteenth or early twentieth century. Blom and his workers recovered the foundations of a small adobe chapel, with ornamental stucco scrolls on the façade around the doorway stylistically consistent with the last quarter of the sixteenth century (Blom 1958; Weiant 1954a). Blom (1958) proposed that the chapel was built on behalf of the Dominican friars led by Bishop Bartolomé de Las Casas who arrived in the Jovel Valley in 1545, as a temporary residence while they were awaiting completion of a more elaborate church in town. Furthermore, Blom (1958) suggested that the presence of the chapel in this location indicated that the monumental center of Moxviquil was still occupied during the early Colonial period. A second architectural feature on Terrace 1 was a post-conquest “Troje de Maíz” (corn silo) made with stones taken from the pre-Columbian ruins. Blom noted that the workers still remembered the existence of this troje (Blom 1958).

The Public Monumental Zone

The saddle at the base of the northern hillslope of Moxviquil contained a small, concentrated, and diverse group of architecture that likely served a variety of functions for residents of the site located on the hillslope above, for other site residents occupying adjacent hilltops and ridgetops, and for the other small residential sites in the valley such as Huitepec (Paris 2012) and La Hermita (Culbert 1965). These include three structures, labeled “Structure B,”

Figure 11. Artifacts from Terrace 3, including groundstone axes, a groundstone mano, a cylindrical sculpture fragment, six obsidian blades, and a ceramic stamp. Photo by Frans Blom. Reproduced with permission from the Asociación Cultural de Na Bolom.

Figure 12. Ceramics from Cache 3 including a Fine Orange annular base dish with a carved step-fret motif, an incurring bowl, an incurving annular base vase, an outcurving bowl with gouged geometric decoration an outleaning dish with incised geometric decoration, two long-necked polychrome jars with opossum effigy necks (Yerba Buena Fine: Polychrome Variety), and an outleaning Ixtapa Fine Orange bowl. Photos by Elizabeth Paris.
“Structure C,” “Structure D,” an I-shaped ballcourt, and a large, square Main Plaza.

Structure B (also labeled “Pyramid B” by Blom and Weiant) was a large, truncated earthen mound located at the southern edge of the saddle, at the base of the monumental staircase and below Terrace 1. Blom had originally hypothesized that this structure was a masonry temple, and excavated a wide trench through the center of the mound down to several feet below the ground surface. No evidence of tombs or masonry structures was found; however, the workers removed several massive boulders. According to Weiant (1954a), the only artifact recovered from the fill was a polished and perforated jadeite bead, which was recovered at the center of the base of the mound (Weiant 1954a).

To the north of Structure B, a series of platforms led from the base of the mound down to the ballcourt. Although not a true staircase, they were designated the “Northern staircase” by Blom and Weiant (1954a). The ballcourt is “I” shaped, of a Type VII enclosed court (see Taladoire 1981), with strong similarities to those of other Late Classic period sites in Chiapas such as Chinkultic, Tenam Puente, and Tonina. It is an enclosed ballcourt, with an east-west orientation, about 30 m long, with an alley about 8 m wide and a total width of 14.5 m (Blom 1953b). The northern side of the ballcourt was bordered by Structure C, a long, low artificial truncated mound approximately 6 m high and 20 m long (Evening Star 1954; Weiant 1954a).

At the northern-most portion of the monumental center of Moxviquil was the Main Plaza and Structure D. The Main Plaza was likely the focal point of the monumental center (Weiant 1954a). The plaza was large and square, measuring approximately 45 × 45 m (Blom 1958). The plaza was bordered on the southern edge by Structure C, on the northern edge by Structure D, and on the eastern and western edges by a series of low mounds (Blom 1958). To the north of the Main Plaza, Structure D (also labeled by Blom as the Main Pyramid) was a three-level masonry pyramid approximately 40 m long. Blom excavated a wide trench across the center of the Main Plaza. Blom also excavated a large trench across Structure D, and uncovered a central staircase with four steps made of masonry blocks, but found few artifacts.

Other Mortuary Deposits

In addition to the mortuary deposits recovered from the Upper Plaza and the terraced residential zone, two additional burial deposits were recovered from the vicinity of the Moxviquil monumental center (Table 1). Following the excavation of the Moxviquil monumental center, Blom (1954a:131–134; later cited by Ruiz Lhuillier 1968:105) recorded another burial in a cave located 500 m to the west. The deposit contained two fragmented skulls exhibiting cranial modification, along with a few dispersed bones. The dripping calcareous water had fossilized the whole deposit into a solid travertine block. Blom was still able to distinguish cranial deformation of the Antero-Posterior Type A among the skull fragments, and he states that it differs from the Tabular Deformation Type B registered on the Moxviquil burials. According to Blom, the cave was likely an ossuary with secondary burials as it contained a few “coarse” offerings in contrast to the rich offerings of the Moxviquil burials, and he suggested that the burials date to the Early Postclassic (Blom 1954a:131–134).

According to Jovel Valley resident and author Herberto Morales, a seventh, unreported tomb may exist at the monumental center of Moxviquil. While researching a novel in 1990, Morales was shown a tomb by residents of Ojo de Agua, who claimed to have discovered the tomb while cutting wood on the hillside (Herberto Morales, personal communication 2010). Morales observed a masonry tomb covered with stone slabs. Unlike other tombs at the site, he observed that the walls were covered in white stucco, and that painted in the center of each wall was a red ochre design depicting a bird with large eyes, which he interpreted to be owls. The red paint sparkled in the light, an effect that was most likely due to the presence of specular hematite (specularite) crystals within an unhydrated (red) hematite-rich clay pigment. According to Morales, the tomb contained an adult primary burial, in which the body was in an extended supine position with its head to the north. The sole burial offering was a “xahuax te’” or wooden staff, resembling the type carried by religious officials in San Juan Chamula, located 9 km to the northwest of San Cristóbal de las Casas. While the recounted discovery is intriguing, it should be noted that archaeologists have not relocated the tomb, and the chronological provenance of both the tomb and its occupant remain uncertain.

The architecture of the Moxviquil monumental center reflects a diversified set of public and residential functions for both monumental center residents and the outlying residential populations. Evidence from Blom and Weiant’s excavations suggests a spatial separation between residential settlement on the hillslope above, and public functions in the saddle below. The Upper Plaza may have served as both a local political administrative center and as the residences of the site rulers. Other residential areas were associated with the lower terraces on the hillslope; their lower position on the hillside is suggestive of lower status than their Upper Plaza counterparts. These structures likely represent the houses of extended members of the royal family, other high-status residents, and their retainers. Other residences likely filled the terraces to the east and west of the excavated areas. Both the Upper Plaza and the residential terraces below would have had restricted access to the public. The monumental staircase provides the only evidence of a nonperishable form of access between terraces, while the large retaining walls would have provided steep barriers to vertical movement up the hillside.

Burials and caches were concentrated in the residential hillslope areas, suggesting that the interments may be closely tied to the activities of individual households. All of the interments excavated by Blom and Weiant represent secondary interments, and often housed multiple individuals, suggesting that they were the loci of ongoing mortuary practice, possibly over multiple generations. As has been argued for other sites in the Maya cultural area, interments could have been used to evoke social memory of past action by reinforcing the claims of particular households to particular social and physical spaces (Chase and Chase 1998; McAnany 1995). The tombs may represent the interments of revered family ancestors (McAnany 1995); however, it should be noted that the interred individuals include children, although the majority appear to have been adults. The tombs thus likely represent family mausoleums, in which individuals were interred and removed during multiple mortuary events. The formal, masonry caches interred within the residential spaces, often in close proximity to masonry tombs, represent a spatially segregated set of offerings from those interred within the tombs. This suggests that caches were also associated with highly formalized ritual within residential spaces, but may have served a separate function. For example, they could have been dedicated to deities rather than family ancestors.

In contrast, the saddle areas of Moxviquil likely served diverse public functions for a broad spectrum of valley residents. As
noted above, these areas would have been more publically accessible to not only residents of the hillslope above, but also to residents inhabiting the other hilltops and ridgetops to the north and west (Paris 2012), or to residents of other sites in the Jovel Valley who could have accessed the plaza through footpaths along the more gradual eastern slope ascending from the valley floor. Structure D could have served as a public temple or an administrative building connected to activities in the Main Plaza, while the large, truncated earth platforms (Structures B and C) likely served as spaces for important public rituals related to religious functions such as ceremonies and/or dances, or to administrative rituals for political leaders. Similarly, the Main Plaza could have served a wide variety of functions related to political events, rituals taking place at the temples on either side of the plaza, public gatherings, or economic functions such as a marketplace. The ballcourt would also have potentially accessible to the public during games, and would likely have played an important role in the forging of community identity (Hill and Clark 2001:331).

Despite the importance of architectural inventories and urban planning in determining the degree to which activities were diversified or specialized within the monumental center of Moxviquil, the types and quantities of artifact assemblages in association with different architectural spaces provide equally important data on urban functions. The spatial distribution and densities of different types of production debris and finished commodities, as well their associations with particular architectural features, can link particular activities to particular households or social groups within the site (Ashmore 2002; Folan et al. 2001; Hendon 1996; Joyce 1993; Kent 1990; Meskell 1999), or to the specialization of a community as a whole with regard to a particular activity such as agricultural production and storage, market activities, specialized craft production centers, or specialized religious rituals (Iannone and Connell 2003:4).

THE CERAMICS OF MOXVIQUIL

The ceramics from the monumental center of Moxviquil highlight the diverse range of activities taking place in the Moxviquil monumental center. The assemblage reflects both private domestic consumer and storage activities, as well as more public events such as feasting and special-purpose ritual ceramics. The quantity and diversity of imported ceramics also lends support to the potential role of the Moxviquil monumental center as a market center, with its residents as consumers of interregional goods.

Information on the Moxviquil ceramics comes from three major sources: two notebooks filled with notes and sketches prepared in 1953 by Weiant and in 1954 by Brainerd, and a modal analysis by Paris of the complete ceramic collections preserved at the Museo Na Bolom, both the vessels on display at the museum (mostly whole vessels) and the collections in the bodega (mostly sherds and some whole vessels removed for restoration). Additionally, several researchers have included select whole vessels on display in the Museo Na Bolom in their comparative ceramic studies (Adams 1961; Bryant 1988; Culbert 1965; Lee 1985, 1989; Lowe and Mason 1965; McVicker 1969, 1974, 1978; Piña Chan 1961, 1967; Smith 1958; Taladoire 2011). It should be noted, however, that the ceramic sample preserved in the Museo Na Bolom does not represent the entire excavated sample from the Moxviquil excavations. Blom and Weiant’s writings indicate that an unspecified number of sherds were sent to Alfonso Caso in Mexico City, and many of the sherds that appear in the excavation photos are no longer present in the collection. It appears likely that only a selection of the originally excavated sample remains. Despite these concerns, it is still possible to associate different spaces with different activities, while acknowledging that not all activities may be represented in the remaining artifact sample.

The three studies described above document 1,092 sherds and whole vessels from the monumental center of Moxviquil (Table 2). A total of 930 sherds and whole vessels were matched to 43 previously established Type-Variety categories (see also Paris 2012), while the remaining 162 ceramics belong to undesignated or unknown types. Established types in the sample derive chronologically from the Late Preclassic period (1.28%), the Early Classic period (64%), the Late Classic period (31.78%), the Early Postclassic period (35.35%), and the Late Postclassic period (4.21%), while 11.9% may have belonged to either the Late Classic or Early Postclassic periods. An additional 14.84% of vessels are of undesignated or unknown type, although many are bichromes or trichromes illustrated by Weiant that likely date to the Late Classic period. This suggests that the monumental center was first constructed during the Late Classic period, and that settlement continued through the Early Postclassic period. The small proportion of ceramics dating to the Late Postclassic period suggests that the population may have declined during this period. Ceramics from the outlying residential areas of Moxviquil date almost entirely to the Early Postclassic period, suggesting that the population of the site expanded into previously uninhabited areas on the surrounding hilltops at that time (Paris 2012).

The sample of ceramics from the Moxviquil monumental center comes from a variety of excavated contexts ranging from residential terraces to burials and caches. The largest sample of ceramics derives from Terrace 3 (n = 464). The next largest samples of sherds are from two unknown excavated locations: the “Casa in the Na Bolom archives. In 2006–2008, Paris successfully matched 10 of the ceramics in Weiant’s drawings to sherds currently in storage at the museum, and was able to use the matched sherds to determine the context of many of the sherds in the Na Bolom bodega.

A notebook belonging to Brainerd indicates that he paid a brief visit to Na Bolom in 1954 and studied some of the ceramics there. His notebook is currently housed among his archaeological papers on file at the University of California, Los Angeles (UCLA), where it became cataloged with the Cerro Portezuelo Archive. Through sheer luck, Eric Taladoire located it, and Wendy Teeter and the staff of the Cerro Portezuelo archives at UCLA provided us with scans. It contains profile plan sketches of 54 sherds and whole vessels from Moxviquil, as well as a list of 31 photographs whose current location is unknown (Brainerd 1954). Based on Brainerd’s sketches, Paris was able to match 50 of the ceramics to those currently housed at Na Bolom, predominantly the whole vessels.
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<th>South Mound</th>
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<th>Terrace 2</th>
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<td>0.92%</td>
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<tr>
<td>Yerba Buena Fine: Pajul Variety</td>
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<td>3</td>
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<td>1</td>
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<td>7</td>
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<tr>
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<tr>
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<tr>
<td>Yerba Buena Fine: San Nicolas Variety</td>
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<td>Category 2</td>
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<tr>
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<tr>
<td></td>
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<td>5</td>
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<td></td>
<td>Buena Fine: San Cristobal Variety</td>
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<td>Yerba Buena Fine: San Cristobal Variety</td>
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<td>23</td>
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<td></td>
<td>1</td>
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<td>15</td>
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<tr>
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<td>2</td>
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<td></td>
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<tr>
<td></td>
<td>Pinar Fine: Las Piedrecitas Variety</td>
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<td></td>
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<tr>
<td></td>
<td>Pinar Fine: Pinar Variety</td>
<td>4</td>
<td>85</td>
<td></td>
<td></td>
<td>1</td>
<td>48</td>
<td>138</td>
<td>13.64%</td>
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<tr>
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<td>San Gregorio Coarse: San Gregorio Variety</td>
<td>1</td>
<td>85</td>
<td>10</td>
<td>9</td>
<td>44</td>
<td>149</td>
<td>13.64%</td>
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<td>Silho Fine Orange</td>
<td>1</td>
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<td></td>
<td>Thin Gray ware</td>
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<tr>
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<td>Tohil Plumbate</td>
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<td>3</td>
<td></td>
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<tr>
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<td>Tzaconeja Red</td>
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<td>2</td>
<td>217</td>
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<td>11</td>
<td>126</td>
<td>386</td>
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<td>Ecatepec Red</td>
<td>2</td>
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<td></td>
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<td>2</td>
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<td>0.18%</td>
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<tr>
<td></td>
<td>Huistan Hard: Huistan Variety</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>0.09%</td>
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<tr>
<td></td>
<td>La Hermita Coarse</td>
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<td></td>
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<td>2</td>
<td>0.18%</td>
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</tr>
<tr>
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<td>La Hermita Coarse: Conchita Variety</td>
<td>1</td>
<td>1</td>
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<tr>
<td></td>
<td>La Hermita Coarse: La Hermita Variety</td>
<td>18</td>
<td></td>
<td></td>
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<td>21</td>
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</tr>
<tr>
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<td>Late Postclassic Total</td>
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<td>20</td>
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<td>25</td>
<td>46</td>
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<td>23</td>
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<tr>
<td>Grand Total</td>
<td>Grand Total</td>
<td>20</td>
<td>3</td>
<td>16</td>
<td>49</td>
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<td>8</td>
<td>12</td>
<td>110</td>
<td>14</td>
<td>373</td>
</tr>
</tbody>
</table>
Grande” (which likely refers to either the North Mound or the South Mound in the Upper Plaza) and “Excavation E.” Small samples of sherds remain from excavation on Terraces 1 and 2; from the Western Pyramid and the South Mound in the Upper Plaza; from Structures C and D in the Public Monumental Zone; from Tombs 2, 3, 5 and 6; and from all three caches (n = 20). For a large number of the sherds (n = 373), specific provenience information has been lost in the years since the excavations, and thus they shed light on monumental center activities only at the broadest level.

Storing, Serving and Sanctifying: Ceramic Vessels and Monumental Center Activities

The ceramic assemblages at Moxviquil included a wide variety of ceramic forms ranging from utilitarian storage vessels, to serving and feasting wares, to special-purpose ritual vessels (Table 3). Bowls and dishes formed the largest proportion of the total assemblage in most contexts, while the second and third most common vessels were short-necked jars and tripod vessels. This pattern was strongly reflected on Terrace 3, which also had the largest sample of ceramics; however, bowls, dishes, and short-necked jars were also the dominant forms on Terraces 1 and 2, despite the small sample sizes. These activities reflect the importance of daily household activities such as food storage and consumption in association with the residences on this terrace. Terrace 3 was also the only location within the monumental center where tecomates (neckless incurving jars) were found, although these vessels were also likely related to food storage. This terrace also had a diverse range of special-purpose ceramics, including cylindrical vases, incense burners, and ceramic earspools, suggesting that residents also engaged in ritual activities within or beyond these residential spaces.

The vessels from tombs and caches reflect the specialized nature of these ritual deposits. Both tombs and caches contained high proportions of cylindrical vases, which may have been used as ceremonial drinking vessels at feasting events. These deposits also contained high proportions of bowls and dishes, including a tripod bowl in Cache 1, and long-necked effigy jars in Cache 3. As described below, many of these vessels are elaborately decorated and are of nonlocal origin, making them highly visible offerings in mortuary deposits and caches.

Two of the most distinctive mortuary offerings were a pair of anthropomorphic incense burner covers recovered from Tomb 3 (see Figure 4). The two incense burners are highly similar, and depict human faces emerging from a band of swirling elements. One of the artifacts depics the individual emerging from the mouth of an animal, likely a serpent (although it has a human-like maxilla rather than fangs), surrounded by the swirling elements, while the other depicts the individual emerging from a rectangular band of swirling elements that may represent smoke or clouds. Both individuals have sloping foreheads suggesting cranial deformation, large square earspools, and identical rectilinear facial tattoos in a horizontal band across the cheeks and lips, as well as a vertical band from the hairline to the tip of the nose. This combination of body modification style suggests that the figures portrayed on the incense burners held elite status, and may represent ancestor spirits of Moxviquil elites. Despite their uniqueness in the Moxviquil assemblage, they were likely made using elaborate open molds, as the anterior surfaces are decorated in detail while the posterior surfaces are perfectly smooth. Both objects are hollow, with multiple perforations through which smoke from burning incense could have escaped during religious rituals.

Trade and Exchange of Ceramic Vessels at Moxviquil

The ceramic types represented in the Moxviquil monumental center represent a wide range of local, regional and interregional types, representing both local products and imported trade wares. In addition to local types, many of the identified sherds and vessels match types from nearby highland sites such as La Tortuga (McVicker 1969) and Yerba Buena (Bryant 1988). Other sherds and vessels match types from other sites to the southeast, including Tenam Puente (Aguilar Rojas 2004; Lalo Jacinto and Aguilar 1996), Canajahua (Blake 1985, 2010), Chinkultic (Ball 1980), and sites in the Upper Grijalva River Valley (Bryant et al. 2005). A small proportion of types are interregional trade wares such as Fine Orange wares from the Gulf Coast (Smith 1958) and Tohil Plumbate from the Soconusco coast, both of which are wares that were widely traded throughout much of Mesoamerica during the Early Postclassic period (Sabloff 1975).

As expected, local ceramic types were strongly represented in the monumental center assemblage, including both serving and storage vessels. Locally produced ceramic vessels dominated most household assemblages and, as discussed above, constituted 65.9% of the monumental center ceramic assemblage compared to 88% in the residential zone of the site (Paris 2012). Local types were particularly dominant in residential spaces such as Terraces 1 and 3, but were also strongly represented at Structures C and D. The most common local types include: Moxviquil Black, a Late Classic period decorated serving ware (Figure 13); San Gregorio Coarse, an Early Postclassic period unlipped storage and cooking ware; and Pinar Fine, an Early Postclassic period monochrome slipped ware used for small, plain jars and bowls (Culbert 1965; Paris 2012). San Gregorio Coarse is pervasive throughout highland Chiapas during the Early Postclassic period, and has even been found in Early Postclassic deposits at Tonina, along with Huistan Hard, suggesting that it was widely produced and/or distributed (Culbert 1965; Taladoire 2011). The monumental center also included small amounts of other local Jovel Valley types including Cerro Alto Fine, Huitepec Red, and La Hermitia Coarse (Culbert 1965; Paris 2012). Several other Early and Late Postclassic highland Chiapas types identified by Culbert (1965) were represented at Moxviquil and Huitepec in small proportions. These include Ixtapa Fine, an Early Postclassic trade ware thought to be manufactured in the Ixtapa Valley (McVicker 1969:34), and other types that were likely produced in the eastern Chiapas highlands, including Late Classic type Yerba Buena Fine; Yerba Buena Variety; Early Postclassic types Ecatepec Red: Ecatepec Variety and Tzacaoneja Red: Variety Unspecified (Culbert 1965:67–68); and Late Postclassic type Huistan Hard: Huistan Variety (Culbert 1965:72). These types were found predominantly on Terrace 3 of the monumental center.

Many vessels from Moxviquil show a strong connection to the Upper Grijalva River Valley. Two of the whole vessels from Tomb 2 and Cache 2 were dishes belong to the Late Classic period type Pues Pseudo-glyph: Pues Variety. Sixteen other sherds of this type and form were also recovered from Terrace 2. Four other sherds from Terrace 3 and unknown contexts had slightly coarser gray paste and unpolished surfaces, suggesting that they are local imitations of this regional trade ware. Other vessels in the collection from this region include a Palek Polychrome: Palek Variety dish, a Middle Classic period type (Bryant et al. 2005:410), and a small orange-slipped jar with a human effigy face modeled on each side found in the Western
Table 3. Vessel forms of ceramics from the Moxviquil monumental center by excavated context

<table>
<thead>
<tr>
<th>Row Labels</th>
<th>Tombs/ Caches</th>
<th>Western Pyramid</th>
<th>South Mound</th>
<th>Casa Grande</th>
<th>Terrace 1</th>
<th>Terrace 2</th>
<th>Terrace 3</th>
<th>Structure C</th>
<th>Structure D</th>
<th>Excavation E</th>
<th>Surface (mixed contexts)</th>
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<td>12</td>
<td>28</td>
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<td>5</td>
<td>54</td>
<td>2</td>
<td>103</td>
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<td>402</td>
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<td></td>
<td>10</td>
<td>2</td>
<td>23</td>
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Grand Total: 20 3 16 49 6 17 464 8 12 110 14 373 1092
Pyramid resembling Chax Modeled: Chax Variety (Bryant et al. 2005:Figure 9.111 1-m, 572). Twenty sherds belong to Chanal Modeled-carved: Chanal Variety (Bryant et al. 2005:485), a transitional Late Classic to Early Postclassic type also found at Yerba Buena (Bryant 1988:Figure 34a) and Rancho San Nicolas (Culbert 1965:Figure 6a), that represents a locally produced imitation of lowland types Pabellon Modeled-carved and Altar Orange: Altar Variety (Bryant et al. 2005:509). Other ceramics from the Upper Grijalva River Valley found at Moxviquil include Yerba Buena Fine: Pajul Variety, Batzi Specular Red-on-Unslipped: Batzi Variety, San Sebastian Fine: San Sebastian Variety, and Tasajo Red: Tasajo Variety (Bryant et al. 2005).

The interregional Fine Orange trade wares at Moxviquil, which include Balancan (Z) and Silho (X) Fine Orange, span the end of the Late Classic and the entire Terminal Classic (Smith 1958), suggesting that Moxviquil maintained exchange relationships with the Gulf Coast region that spanned multiple stylistic periods (Figure 13). Many of the Balancan Fine Orange dishes in the Moxviquil collection are examples of the incised variety Provincia Plano-Relief, and were likely imported to the Jovel Valley. Ongoing instrumental neutron activation analysis (INAA) in collaboration with Ronald Bishop of the Smithsonian Institution will empirically test their provenance. McVicker (1969) has argued that imitations of Balancan Fine Orange wares were produced in the Ixtapa Valley in several varieties. Of these, the Ixtapa Variety and Buff Variety are represented in the Moxviquil collection. The Ixtapa Fine Orange wares exhibit fine pastes, but their pastes are softer and chalky, with highly eroded slips, and incised designs that are less intricate or precisely executed than the high-quality Provincia Plano-Relief vessels, however, are absent from the collection at the Museo Na Bolom. In addition to the Balancan and Silho Fine Orange Ware types, a number of undesignated Fine Orange vessels were also present in the Moxviquil collection. Many of these were recovered from tombs and caches. Cache 1 included a tripod dish with round rattle feet, while Cache 2 included a cylindrical vase with incised geometric designs, and it is likely that they were both imported from an unknown source. The cylindrical vase from Tomb 5 (see Figure 8) is also an unidentified type of Fine Orange, and contains incised decoration with a repeating geometric band containing a repeating glyph. Due to erosion of the vessel, the glyph is partially illegible, but contains a yu prefix above what may be an imix sign, and a cloud scroll element above an unknown element (John Justeson, personal communication 2009).

A number of vessels in the collection remain unidentified, constituting 14.8% of the collection. These vessels are either unique or have been recovered in such small quantities that they could not be established as, or affiliated with, a type. Of these, 11.1% were fine serving ware bichromes (Figure 13) and trichromes described by Weiant in a wide variety of color combinations, including black, brown, orange, red, grey, buff, cream, and white, and many were documented in excavation photographs. Nearly all of these vessels, however, are absent from the collection at the Museo Na Bolom. In addition to the Balancan and Silho Fine Orange Ware types, a number of undesignated Fine Orange vessels were also present in the Moxviquil collection. Many of these were recovered from tombs and caches. Cache 1 included a tripod dish with round rattle feet, while Cache 2 included a cylindrical vase with incised geometric designs, and it is likely that they were both imported from an unknown source. The cylindrical vase from Tomb 5 (see Figure 8) is also an unidentified type of Fine Orange, and contains incised decoration with a repeating geometric band containing a repeating glyph. Due to erosion of the vessel, the glyph is partially illegible, but contains a yu prefix above what may be an imix sign, and a cloud scroll element above an unknown element (John Justeson, personal communication 2009).

The number and variety of nonlocal ceramic vessels in the Moxviquil monumental center suggest that they were obtained through long-distance exchange. Many vessels were obtained through exchange across political boundaries and, in some cases, linguistic boundaries. Monumental center residents obtained inter-regional trade goods such as Fine Orange wares from the Gulf Coast and Tohil Plumbate from the Soconusco, potentially through traveling merchants. They could have obtained local ceramic types from potters in the surrounding communities and nearby sites, either from vendors in the marketplace, or as part of the local market.
the mountain homes of God N was through cave openings located at the cardinal directions. Through these openings, beneficial and destructive forces could enter the world, including beneficial winds that fanned the fires of the *milpa*, and harmful winds that caused diseases. Caves are seen as a source of both rain and pure stream water, and are considered to be the home of the Chaaks, celestial spirits that inhabit the caves and cause lightening and rain (Bassie-Sweet 2002:15).

Another vessel type at Moxviquil also has potential links to God N. Thirty-five vessels were long-necked jars with crudely modeled opossum faces on the necks. Twenty-five of these vessels had slightly outsloping necks, one had an outflaring neck, and the rest were neck fragments. Twenty-six of the vessels were classified as Yerba Buena Fine: Polychrome Variety, and had painted decoration in red, orange, black and white; seven were Pinar Fine, divided among the Las Piedrecitas, Pinar, and Unslipped Varieties; and a single example belonged to Huitepec Red: Huitepec Variety, an unusual example with paste that was far more coarse than the other examples. Two of these vessels were recovered from Cache 3, while a third is also present in Blom’s photos, although it was not found in the Museo Na Bolom ceramic collections (see Paris 2012:Figure 5.23). Two identical opossum vessels belonging to the type Yerba Buena Fine: Polychrome Variety were recovered from an elite house at Yerba Buena (Bryant 1988:55, Figure 29h-j), although to date they have not been recorded at any other sites in the Chiapas highlands or elsewhere. This limited distribution of forms, combined with the use of local ceramic paste types, suggest that these opossum jars could have been produced at Moxviquil, likely during both the Late Classic and Early Postclassic periods.

The opossum vessels may also be associated with God N, since God N was one manifestation of the Bakabs, also referred to as Pauahtuns (Bassie-Sweet 2002:30). According to de Landa, the Bakabs were four brothers placed by God at the creation of the world at the four corners of the sky to hold it up (Tozzer 1941:136). The mountain manifestations of the Bakabs could also take the form of opossums, and they ruled the darkness before dawn (Bassie-Sweet 2002:36). The Bakabs are often depicted as opossums in Maya art. For example, the *Dresden Codex* depicts one of the Bakabs in New Year’s celebration (Thompson 1974). Bassie-Sweet (2002:31) claims that:

> “The manner in which the grandfather possum is addressed in the *Popol Vuh* suggests that the reading of the God N portrait may simply be “old man.” The possum is called *mam* “grandfather,” but he is also addressed as *ana* “old man.” This is also the term used for males in general. There is a similar term in Tzotzil; the term *mol* is glossed in a colonial period dictionary as “old man” (Laughlin 1988:260, personal communication). When used as an adjective, the contemporary Tzotzil term *mol* means old or large, but when used as a noun it means elder, husband or man (Laughlin 1975:239). It is the term used for old men in general and for the highest ranking elders in the religious hierarchy (Vogt 1976:254).”

Thus, she concludes, one of the titles of God N would be “Old Man Possum” (Bassie-Sweet 2002:31).

The close association between God N, depicted both in anthropomorphic form and as an opossum, on a total of 48 vessels from the Moxviquil ceremonial center, combined with the clear association of the center with mountains and caves, suggests that the center may have a special connection with God N, commemorated through special-purpose ceramic vessels. The presence of two opossum jars
at Yerba Buena suggests that nearby centers may also have partici-
pated in these rituals, or may have hosted their own.

God N is also one of many deities associated with thunder (Taube 1992). Ironically, Moxviquil ceramics also represent God
K or K’awiil, one of the many gods associated with lightning.
K’awiil is depicted on a Silho Fine Orange vase found at Cache 1
in the ceremonial center of Moxviquil (Figure 10). The vase
depicts K’awiil with the classic axe in his forehead, in a kneeling
position, with speech or wind scrolls emitting from his mouth,
and a cross-hatched rectangle under his arm, which may be a
woven mat. He wears a large feather headdress, a large earspool,
bracelets, and a large beaded collar. K’awiil’s face and
the speech/wind scrolls emerging from his mouth are partially
covered in small crosshatched patches, a motif often linked to
God N and the sign akbal or “darkness” (Bassie-Sweet 2002:34).
This combination of deities representing lightning, thunder, and
wind, may represent thunderstorms, a common meteorological phe-
nomenon in highland Chiapas, and one that could either bring rain
to crops, or kill via lightning strikes or floods. The vessels depicting
God N and K’awiil may have been used in rituals which drew on
the associations of these powerful deities with various aspects of
the highland Chiapas landscape—mountains, caves, and thunder-
storms. While the production location of these vessels is
unknown, they may have been produced specifically for ritual pur-
poses related to God N and K’awiil.

DIVERSIFIED PRODUCTION ACTIVITIES IN THE
MOXVIQUIL MONUMENTAL CENTER

The Moxviquil monumental center was a locus for craft production
activities, many of which were related to cloth production (spinning
and weaving), chipped stone tool production (chert projectile points
and obsidian blades), and stone or wood carving. Many craft
production activities appear to have been concentrated in the resident-
tial terrace zone, particularly on Terrace 3. The majority of produc-
tion activities were likely low-intensity and small-scale, and
probably took place internally within households; larger-scale lithic
tool production could have been organized for external exchange.
Many of these craft production activities utilized nonlocal materials
such as obsidian, cotton, and maguey, although producers also
drew on local materials such as chert, and created production imple-
ments from recycled local ceramic sherds and deer antler tines. Food
processing and preparation also took place within the monumental
center itself.

Cloth Production

Blom and Weiant’s excavations recovered several ceramic spindle
whorls at the Moxviquil monumental center, suggesting that cloth
production may have been an important activity for some of its res-
idents (Figure 15). A photograph of spindle whorls among Weiant’s
documents includes 20 whorls—11 large and nine small. Eight of
these spindle whorls are among the 16 examples on display at Na
Bolom, but the location of the remaining whorls in the photograph
is currently unknown. Weiant also sketched two spindle whorls in
his ceramic notebook, both from Location D. Five additional
spindle whorls are present in a photograph with a ceramic censer
fragment still present at the Museo Na Bolom, in a bag of ceramics
from Terrace 3. This suggests that these five spindle whorls are also
from Terrace 3, and that they were associated with the residential
structures on that terrace. The majority of the spindle whorls in
Weiant’s photos appear to be recycled from ceramic sherds, with
the exception of five that have incised or stamped decoration,
which were likely modeled and then decorated. They range
widely in size from 2.4 to 7.5 cm in diameter. In addition to the
ceramic examples, two small spindle whorls were carved from

Figure 14. Drawing of the God N motif on two non-refitting Provincia Plano-Relief: Variety Unspecified outflaring dishes from
skull fragments. We speculate that spindle whorls made from bone may have had a distinctive function, such as spinning thread for cloth used for specific ritual purposes.

Ceramic stamps could have been used to create designs on cloth, as well as paper, and/or ceramics, although they may also have been used in human body decoration. Weiant illustrated one stamp from the surface collections of Terrace 3 (see Figure 11) and a second example was found in the bodega ceramic collections from Terrace 3. Weiant’s stamp was made of “coarseware” (local ceramic types San Gregorio Coarse, Huitépec Red, or La Hermita Coarse are likely candidates), while the stamp analyzed by Paris matches the paste characteristics of Cerrillo Fine: Cerrillo Variety, a tan/orange fine-textured ware with fine sand temper locally produced in or near the Jovel Valley (Paris 2012).

A small number of bone artifacts in the collection were likely associated with other aspects of cloth production. Two artifacts appear to represent sewing implements, including a turkey bone awl and a white-tailed deer metapodial awl (Figure 15). The collection also includes four modified large mammal long-bone shafts, which have been carved into long, thin implements that could have been used as weaving tools.

Spinning, weaving, sewing, and stamping decoration suggest that cloth production was a small-scale activity for residents of the monumental center, but one with high social visibility, which would have emphasized their participation in exchange networks. The variation in sizes of the spindle whorls suggests that residents spun both cotton and maguey fibers. Neither cotton nor maguey is indigenous to the highlands. While modern farmers successfully grow maguey plants in small quantities near the Jovel Valley today, it is uncertain if this practice is recent or was also common in pre-Columbian times. Cotton will not grow in the Jovel Valley due to the climate and altitude. It was, however, grown at the time of Spanish contact at slightly lower elevations in the Central Depression and Copanaguastla (Calnek 1988:15; Ximénez 1929). The residents of Moxviquil could have imported cotton and maguey fibers from either of these areas, using it to produce garments and other items of decorated cloth. These items would likely have emphasized the connections of the wearer to long-distance trade networks, and displayed the spinning, weaving, and sewing skills of the producers. Because many of the spindle whorls and stamps were recovered from Terrace 3, cloth production may have been particularly associated with these residential spaces.

Chert Chipped Stone Tool Production

The lithic artifacts from the monumental center of Moxviquil represent both chert and obsidian tool industries, including obsidian blade production and chert projectile point production. Of all these production activities, chert projectile point production is the most completely documented by Blom and Weiant. The chert artifacts from the monumental center of Moxviquil suggest that its residents produced and consumed items from local raw materials, and also imported exotic lithic commodities. Evidence suggests that chert tool production activities took place within the monumental center itself, while other production activities took place at nearby high-quality, fine-grained chert sources nearby. Other formal projectile points may have been imported from other sites in the Maya lowlands.

Excavations on Terrace 3 suggest that residents on this terrace likely engaged in chert projectile point production. Blom and Weiant recovered “hundreds” of chert projectile points in multiple sizes and styles, chert nodules, partially modified flakes, production rejects, debitage flakes, and antler tines, all in association with low masonry walls interpreted as the foundations of pole-and-thatch residential structures (Weiant 1954a). Blom described the context as a large workshop and arsenal, whose products were sought by hunters and warriors from miles around (Weiant 1954a:32). Notably, evidence of small-scale projectile point production was also recovered at outlying Moxviquil households, suggesting that projectile point production at the monumental center was not organized to supply outlying residential zones, but was organized around internal use by other monumental center residents and/or for external exchange.

The collection of chert artifacts at the Museo Na Bolom includes 21 items from the monumental center attributed to the Terrace 3 excavations (Figure 16, Table 4), and 133 artifacts from the Piedritas del Fuego source. This likely represents a small proportion of the original collection excavated by Blom and Weiant, but the remainder has not been located to date. Of the current sample, 18 of 21 artifacts are projectile points representing a wide variety of styles (Table 4). The most common type is a triangular projectile point, basal-notched, with a tapered stem and pointed base (n = 5), while the second most common is a non-fluted lanceolate point with a concave base (n = 4). The points vary widely in the degree of skill used to execute production, ranging from thin, finely crafted spear points to thick, crude arrow or dart points which...
may represent preforms or practice pieces. Of the production tools and debitage, only three artifacts remain in the Museo Na Bolom collection: a second series blade, a small tertiary flake, and a small bifacial flake core. These artifacts could possibly have been part of projectile point production, but could have also been used to create other tool types such as knives, scrapers, or drills similar to those found in the outlying residential zone of Moxviquil (Paris 2012).

Chert tool producers from the monumental center of Moxviquil likely took advantage of abundant raw material from nearby sources. Blom attributed the source of the Moxviquil chert artifacts to the “Piedritas del Fuego” site, located 1.5 km from Moxviquil, and also noted the presence of another equidistant chert deposit to the northeast (Blom 1953c; Brunhouse 1976:221; Evening Star 1954; Weiant 1954a). Blom collected a variety of artifacts from Piedritas del Fuego at an unknown date, reflecting early-stage tool production activities. The majority of artifacts from this site were made from fine-grained, high-quality chert with few inclusions, varying in color from tan to gray. A small proportion (12.7%) of these artifacts was made from medium-grained chert, quartz-chert blend, or limestone in the same range of colors. The assemblage includes a wide variety of tools, preforms, cores, and debitage (Table 5) associated with production of bifacial and unifacial cutting tools. Tool types include thin, evenly flaked small bifaces, and preforms for projectile points, bifacial knives, and unifacial scrapers. Production-related artifacts include polyhedral flaked cores (n = 3) and 90 flakes, including large primary core preparation flakes, secondary and tertiary flakes, and bifacial thinning flakes. Several artifacts are associated with chert blade production. The collection included a crude blade core, percussion blades likely generated from producing the polyhedral blade cores, and first, second, and third series blades. Producers at this quarry site may have exported cores, preforms, and finished tools to the monumental center.

The possibility remains, however, that not all of the projectile points from the Moxviquil monumental center are of local origin. The blade, flake, core, and 10 of the projectile points were light gray to grayish-brown in color, similar to the artifacts from the Piedritas del Fuego source, while the other eight points were brown to dark brown, from an unidentified source. In particular, three large spear points and two mid-sized points are larger, thinner, and more finely worked than the rest of the sample (Figure 16). They are also stylistically distinct from the rest of the collection, as well as from the small, thick dart points recorded by Clark (1988) at Yerba Buena. Instead, their forms suggest similarities to projectile point styles recovered from Late Classic period sites in the Maya lowlands such as Piedras Negras (Hruby 2006: Figure 5.2), Cancuen (Kovacevich 2006:Figures 8.34, 8.56, 8.57, 8.61), and Yaxchilan (Kaneko 2003:Figures 24, 27), among others. They were most likely imported from Maya lowland sites, although this remains to be verified through provenience studies.

Obsidian Prismatic Blade Production

The residents of the Moxviquil monumental center also imported obsidian prismatic blades and prismatic blade cores from highland Guatemala. Of the 84 obsidian artifacts in the Museo Na Bolom display collection (Figure 17), 75 are small third-series (prismatic) blades, which were used as cutting implements. The collection also includes a single second-series blade, seven exhausted polyhedral blade cores, and a single small bifacial flake core—the exact provenience of these items is unknown. Photographs and Weiant’s ceramic notebook can be used to locate one blade from Cache 1, one blade from Location D, and six blades from Terrace 3, but the excavation contexts of the blade cores remains undocumented. Two obsidian artifacts were also recovered at the Piedritas del Fuego chert quarry, including a prismatic blade and a small flake core fragment. No obsidian debitage flakes remain in the Museo Na Bolom collection, although Weiant (1954a) noted the presence of obsidian flakes on the surface of Terrace 2.

Prismatic blades have been produced at Moxviquil itself, although some of them may also have been imported as finished objects. The prismatic blade cores had undergone extensive third-series reduction by the time they arrived at Moxviquil, and were very small and thin, with small platforms and thin blade scars. This suggests that a highly skilled producer used them to create blades and exhausted them to the fullest extent possible. The third-series prismatic blades in the collection consist of fragments, including 35 medial segments, but also including 28 proximal segments and 12 distal segments. As such, this does not preclude the possibility that at least some blades were produced on-site. Most of the blade segments are relatively small and thin, ranging between 2 and 5 cm in width, with a mean length of 3.6 cm, suggesting that they were produced from highly reduced prismatic blade cores. Obsidian cores have not been recovered from any other excavated areas at Moxviquil, suggesting that obsidian production may have been associated exclusively with the monumental center; however, obsidian prismatic blades were found in outlying residential areas of the site as well as in the monumental center (Paris 2012). Based on visual sourcing, the majority of the blades and cores appear to be from the Guatemalan sources at El Chayal and San Martín Jilotepeque, while a few blades may be from central Mexican sources. This suggests that some prismatic blades from the monumental center may have been fabricated on-site by a high-skill producer, but that other blades were likely imported as finished items. Notably, El Chayal and San Martín Jilotepeque were the most common obsidian sources exchanged in trade networks along the Usumacinta River, and in many parts of Chiapas during the Classic period (Braswell 2003:140).

Stone or Wood Carving

Many of the groundstone artifacts from the Moxviquil monumental center may reflect stone or wood cutting or carving activities. The sample of groundstone artifacts from the monumental center (n = 40) included many axes and other chopping and hammering tools, including both groundstone axes (n = 25) and greenstone axes (n = 14). Unfortunately, most of the artifacts cannot be linked to specific excavated contexts, but several groundstone axes appear in Weiant’s photographs from Terrace 3 (see Figure 11).

Most groundstone axes were made of basalt, while others were made from other types of mafic or felsic igneous rocks. Similar groundstone artifacts include a chisel, a hammerstone, and a weight likely used in architectural construction. Although no quarry sites have yet been located, numerous igneous stone sources exist in highland Chiapas, including nearby dormant volcanoes such as the Volcán de Huitepec on the southwestern edge of the Jovel Valley, and Tzontehuitz (a volcanic dome complex) to the north. A single miniature celt in the collection was made from fine-grained limestone, which could have been obtained from outcrops that exist throughout the Jovel Valley. Greenstone artifacts (mostly serpentine and olivine) in the Moxviquil collection...
included a miniature axe, a polished biface, and a polished pebble. Highland Chiapas also contains several sources of greenstone, including Huixtan to the east and Chalchihuitan to the north (Paris 2012).

One possible product of carving activities could be the small sculpture fragments documented in photographs by Blom and Weiant, which include a cylindrical fragment in the photo of artifacts from Terrace 3 (Figure 11), two fragments of stone sculpture with anthropomorphic faces photographed in association with groundstone metates (Figure 18), a small round sculpture with carved curvilinear designs, six rounded sculpture fragments, and a small eroded square block with a carved square face (possibly anthropomorphic or zoomorphic). Two sculpture fragments illustrated in the Instituto Nacional de Antropología e Historia report (Blom and Weiant 1954), a jaguar and a human head recovered from the Southern Pyramid in the Upper Plaza, exhibited a slightly higher degree of workmanship, and may also have been locally manufactured.

Food Processing and Preparation

Several groundstone artifacts in the Na Bolom collection were connected with food production (Figure 18). Among these are two groundstone manos and four metates, including a miniature

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</tr>
<tr>
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<tr>
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<tr>
<td>Thin triangular projectile point with flat base</td>
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</tr>
<tr>
<td>Small tertiary flake</td>
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</tr>
<tr>
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tripod *metate* that may have been used for finer food materials such as seeds or pigments, and two decorated *metates*, one with a human effigy leg, and one with a snake head at the distal end. According to Weiant (1954a), most grinding implements were recovered on Terrace 3, with the notable exception of the large *mano* among the offerings from Tomb 3 (Blom and Weiant 1954). Weiant notes that excavations on Terrace 3 recovered “any number of grindstones with their *manos*” (Weiant 1954a).

Photographs from the Museo Na Bolom archives suggest that a total of eight *manos* and 12 *metates* were excavated from the monumental center, and that the present collections do not include the entire sample (Figure 18). A photograph of artifacts from Terrace 3 includes three groundstone axes and a groundstone *mano* (Figure 11), while five other photographs (Figure 18) depict six *manos* and 12 *metates* within the monumental center. An additional *mano* was found among the offerings from Tomb 3 (Blom and Weiant 1954). Weiant notes that excavations on Terrace 3 recovered “any number of grindstones with their *manos*” (Weiant 1954a).

The wide variety of personal ornaments, currencies, and commodities recovered from the Moxviquil monumental center also emphasizes the role of its residents as consumers of interregional commodities, and suggests that the monumental center may have hosted a marketplace for both local vendors and long-distance merchants. In addition to nonlocal ceramics, many other exotic commodities were recovered from the monumental center, including greenstone, marine shell, metal, and lowland animal products. Cache 1 contained many items that were likely imported through exchange with the lowlands, including two jaguar fangs, two peccary tusks, and two bone crescent-shaped *atlatl* fingerloops (Figure 10). Other artifacts in the collection suggest that the inhabitants of the monumental center were using (or at least receiving) types of currencies that were widely used throughout the Maya region. Carved olive shell tinklers, jade beads, and copper axes are among the many currencies recorded in the northern Yucatan at contact (Tozzer 1941), and several scholars (Freidel et al. 2002; Masson and Freidel 2012; Paris and Peraza Lope 2013) have argued that these currencies were important media of exchange in Classic and Postclassic period commercial exchange systems. Offerings in Tomb 3 included five olive shells, which had been modified by sawing the tip off the shell, and carving or punching holes in the bodies of the shells (Figure 4). A small jadeite bead was discovered in Structure B, although it is no longer present in the collection (Weiant 1954a). A small copper axe labeled with a Moxviquil provenience was included in the display collection, although it is not mentioned in the documents or photos. Several other unprovenanced metal artifacts in the collection include a second small

### Table 5. Chert artifacts from the Piedritas del Fuego quarry, located by Frans Blom at 1.5 km from the Moxviquil monumental center (from the Museo Na Bolom)

<table>
<thead>
<tr>
<th>Artifact Type</th>
<th>Fine-grained Chert</th>
<th>Medium-grained Chert</th>
<th>Limestone-Chert Blend</th>
<th>Limestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st series blade</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd series blade</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd series blade</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bifacial flake core</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bifacial knife preform</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blade core</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Denticulate</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Endscaper</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flake</td>
<td>90</td>
<td>10</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Polyhedral flake core</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percussion blade</td>
<td>2</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Possible large biface</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Projectile point preform</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thin biface fragment</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thin biface preform</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unknown</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>116</td>
<td>12</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

**CURRENCY, ORNAMENTS, AND COMMODITIES AT MOXVIQUIL**

The wide variety of personal ornaments, currencies, and commodities recovered from the Moxviquil monumental center also emphasizes the role of its residents as consumers of interregional commodities, and suggests that the monumental center may have hosted a marketplace for both local vendors and long-distance merchants. In addition to nonlocal ceramics, many other exotic commodities were recovered from the monumental center, including greenstone, marine shell, metal, and lowland animal products. Cache 1 contained many items that were likely imported through exchange with the lowlands, including two jaguar fangs, two peccary tusks, and two bone crescent-shaped *atlatl* fingerloops (Figure 10). Other artifacts in the collection suggest that the inhabitants of the monumental center were using (or at least receiving) types of currencies that were widely used throughout the Maya region. Carved olive shell tinklers, jade beads, and copper axes are among the many currencies recorded in the northern Yucatan at contact (Tozzer 1941), and several scholars (Freidel et al. 2002; Masson and Freidel 2012; Paris and Peraza Lope 2013) have argued that these currencies were important media of exchange in Classic and Postclassic period commercial exchange systems. Offerings in Tomb 3 included five olive shells, which had been modified by sawing the tip off the shell, and carving or punching holes in the bodies of the shells (Figure 4). A small jadeite bead was discovered in Structure B, although it is no longer present in the collection (Weiant 1954a). A small copper axe labeled with a Moxviquil provenience was included in the display collection, although it is not mentioned in the documents or photos. Several other unprovenanced metal artifacts in the collection include a second small
axe, a copper axe-money of the type common in Postclassic period Oaxaca and Guerrero (Type VIII A) (Pendergast 1962), and two copper ear spools. The presence of these items at Moxviquil suggests that its elite residents were engaged in long-distance exchange networks, and obtained interregionally circulating currencies and ornaments in exchange for local commodities.

Two groundstone artifacts in the collection suggest long-distance exchange between Moxviquil and the residents of the Gulf Coast. These include a large basalt ballgame yoke (Figure 19) and an hacha depicting a human face (Figure 3). Both items are stylistically associated with the yoke-hacha-palma complex of the Gulf Coast of Veracruz. The large basalt yoke may have been associated with the I-shaped ballcourt, but its excavated context within the monumental center was not recorded. The limestone Totonac hacha was recovered from the fill of the Western Pyramid (Weiant 1954a), and is likely also an import from the Gulf Coast of Veracruz. Edwin M. Shook recorded a second hacha fragment in the Othon Schlie Collection in San Cristóbal de las Casas in 1951, of unknown provenience (Shook and Marquis 1996, Number H65).

DISCUSSION

Moxviquil was likely one of the principal locations of settlement in the Jovel Valley during the Late Classic and Early Postclassic period and, we argue, was a diversified center which served political, economic, and ritual functions for the surrounding population, and was also an important nucleus of residential settlement and household-based production activities. In contrast to the large, powerful
cities of the Maya lowlands (including large midland sites such as Tenam Puente and Chinkultic), Late Classic-Early Postclassic period highland Chiapas was a decentralized, heterogeneous landscape of small polities, ruled from small hilltop cities such as Moxviquil, Ecatepec, La Tortuga, Yerba Buena, Rancho San Nicolas, and San Gregorio. The small size and defensive locations of these sites led Adams (1961) and Culbert (1965) to characterize these highland polities as being mutually hostile, with “fairly isolated pockets of intense settlement with each site maintaining its own intensive position” and “no evidence in ceramics of a significant penetration of the region by groups involved in interregional trading relationships” (Adams 1961:348). The regional context is critical; rather than becoming highly specialized around a single resource or activity set, Moxviquil and other small monumental centers of highland Chiapas likely served as the political capitals of small, independent polities, and thus had to fulfill a wide variety of urban functions for those polities. Despite its defensive hilltop location, the residents of the Moxviquil monumental center maintained economic ties with a large network of other small polities throughout highland Chiapas and also utilized commodities and ideas from larger lowland Maya polities such as Tonina, sites on the Gulf Coast, the Upper Grijalva River Valley, and highland Guatemala.

Despite their small size, Moxviquil and other highland monumental centers fulfilled a wide range of political, economic, social and religious functions for their surrounding hinterlands, functions that are cross-culturally associated with cities (Fox 1977; Sjoberg 1960; Smith 1989, 1994, 2002; Trigger 2003). These functions are reflected in the architectural diversity of the monumental center, which included temples, platforms, a ballcourt, the administrative “Western Pyramid,” the ruling family residences of the Upper Plaza, the large public Main Plaza, where events may have ranged from political and religious rituals to a periodic marketplace, and the monumental center also contained an important residential zone on the hillside terraces. The residential terraces, particularly Terrace 3, contained evidence for a wide range of production activities. With the possible exception of chert tool production on Terrace 3, most of these activities appeared to be craft activities by and for the monumental center residents themselves, including spinning, weaving, obsidian blade production, and wood and stone working. The number and variety of manos and metates suggest the importance of maize processing at the monumental center. The number of decorated bowls, dishes, tripod dishes, and cylindrical vases, however, suggest that maize processing was likely related not only to daily food consumption, but possibly feasting events among the monumental center’s elite residents as well. Other metates could have been used for ceramic vessel production, as originally suggested by Weiant (1954a).

Moxviquil was an active participant in local, regional, and interregional exchange networks, particularly emphasizing relationships with its lowland Maya counterparts. Locally, its ceramic assemblages are closely tied to those of Ecatepec (Culbert 1965) and Huitepec (Paris 2012) to the west, and to sites in the Amatenango Valley such as Yerba Buena and Rancho San Nicolas, and with the site of San Gregorio to the northeast (Bryant 1988; Culbert 1965). The commonalities in ceramic assemblages across a large and geographically diverse region are suggestive of interaction rather than isolation. At the regional level, Moxviquil maintained exchange relationships with the Valley of Ixtapa, the Upper Grijalva River Valley, the Gulf Coast, and highland Guatemala, exchanging ceramics (and locally imitating foreign ceramic styles), obsidian blades and blade cores, Totonac sculptures, copper, shell tinkler currency, jadeite beads, and bone ornaments. This suggests that Moxviquil and the other small cities of highland Chiapas may have served as nodes in a “city system” similar to those proposed by Kowalewski (1990) and Smith (2005). These centers could have hosted small and/or periodic markets that served their surrounding hinterlands and also attracted regional and long-distance traveling merchants. Items obtained through interregional exchange did not replace locally produced commodities such as ceramics, chert tools, animal products, and groundstone tools. Instead, they often complemented and stylistically informed local industries.

During the Early Postclassic period, Moxviquil may also have developed economic and cultural ties to the powerful Late Classic polity of Tonina. Two ceramic types from highland Chiapas are found at Tonina during the Early Postclassic, including San Gregorio Coarse: San Gregorio Variety and Huistan Hard: Huistan Variety (Taladoire 2011). Culbert (1965) also notes some similarities between Huistan Hard: Huistan Variety and ceramics from the site of Tzajalchib in the Ocosingo valley. Other ceramic
types recovered from Ocosingo Valley sites from deposits dating to the end of the Ixim (Late Classic phase) and the Chenek (Early Postclassic) phases also suggest a close relationship between these two regions. These include ceramic types Chablekal Fine Gray, Provincia Plano-Relief, and Ucutsin Brown-on-Buff, as well as Balancan and Silho Fine Orange wares. Tonina also produced its own version of incised Balancan Fine Orange, named Caana White, found predominantly in mortuary contexts at the Late Classic–Early Postclassic period transition. Caana White has strong stylistic similarities to the Provincia Plano-Relief imitation vessels recovered at Moxviquil, although the subjects of the incised designs (which include the Tonina emblem glyph and depictions of captives) and the larger, more elaborate vessel forms are fairly distinctive between the two regions (Taladoire 2011). Becquelin also notes stylistic similarities between some Laltic Orange Polychrome vessels and the Ixtapa Fine vessels recovered from Ecatepec reported by Culbert (Becquelin and Baudez 1979–1982).

Recent analysis of the occupation of the Ocosingo Valley (Taladoire 2011) showed that, following Tonina’s fall sometime after A.D. 909, the valley’s inhabitants tried to rejuvenate its population and political structure. Toward this end, they started building new structures at Tonina itself, reused monuments in the walls of other structures, and inhabited the area until A.D. 1100 or later. These later settlements are predominantly located in the western part of the valley, on the fringes of the limestone plateau that forms the foothills of the Chiapas central highlands. It seems then that they established or reinforced former ties with a still undefined highland ally. Taladoire (2011) suggests that economic ties between Tonina and highland polities such as Moxviquil may help to explain Tonina’s resistance to the sociopolitical collapse that occurred at many Maya sites in the ninth century A.D.

Moxviquil may also have had an important regional religious role related to the worship of God N. Two different vessel types, including dishes with incised God N motifs and long-necked jars with opossum effigy necks (Bakabs), were recovered from the monumental center. The God N dishes are most similar to Provincia Plano-Relief, one of the types of Balancan Fine Orange wares that were widely distributed throughout the Maya region during the Late or Terminal Classic period (A.D. 750–900) (Bishop 1994; Bishop and Rands 1982). Smith’s (1958:151) original study argues for a center of production in eastern Tabasco, possibly in the Jonuta-Tecolpan region, or in southwest Campeche near Los Guarixes. These vessels were widely exchanged and imitated, particularly at sites along the Usumacinta River and its tributaries throughout eastern Chiapas and northwest Guatemala (Bishop 1994). In contrast, most opossum effigy neck jars were made from local ceramic types such as Yerba Buena Fine: Polychrome Variety and Pinar Fine: Pinar Variety. These vessels and their designs could have been copied from templates by multiple artists, either at the same time for a single event, or for a reoccurring event over a period of years. Given the association of God N and the four Bakabs with mountains, caves and rain, it seems likely that Moxviquil may have had a special connection with God N, commemorated through rituals involving special-purpose ceramic vessels. The presence of two opossum jars at Yerba Buena (Bryant 1988:Figure 29h-j, 55) suggests that nearby centers may also have participated in these rituals, or may have hosted their own.

Moxviquil provides us with an important glimpse into the role of small cities in periphery regions such as highland Chiapas, as well as more broadly among the small polities of Mesoamerica. Its location may have been politically and economically peripheral to the powerful lowland Maya polities, yet its position within a network of small highland polities facilitated economic and cultural ties with highland and lowland areas to the east. Moxviquil also reminds us that as the monumental centers of Maya sites are imperiled through erosion, neglect, and looting (Esponda Jimeno 1984), and it is often valuable, if not essential, to take a new look at old collections.

RESUMEN
Las excavaciones de Frans Blom y Clarence Weiant en el sitio arqueológico de Moxviquil en 1952–1953 constituyen un proyecto arqueológico pionero en los altos de Chiapas. Ubicado en el valle de Jovel, Moxviquil se encuentra en una región de contacto entre diversas áreas culturales. Los resultados de sus excavaciones, que fueron sólo mínimamente publicados, proporcionan datos importantes sobre uno de los sitios más significativos en esta zona, en el clásico tardío-posclásico temprano. En este trabajo, se reconsidera Moxviquil a través de estudios recientes sobre la urbanismo maya, y se ofrecen nuevas interpretaciones del sitio como una pequeña ciudad que cumple diversas funciones urbanas para los residentes, tanto dentro de la zona monumental, como para los ocupantes de las zonas residenciales alrededores. De acuerdo con su papel como centro administrativo de un pequeño reino independiente de los Altos de Chiapas, la zona monumental de Moxviquil probablemente desarrolló varias funciones políticas, económicas y rituales. También fue un importante núcleo de asentamiento residencial donde se concentró una amplia gama de actividades artesanales y preparación de alimentos.

A pesar de su tamaño reducido, en comparación con otros centros urbanos mayas, Moxviquil y sus contemporáneos de los altos de Chiapas cumplieron un amplio papel de funciones que se relacionan culturalmente con el concepto de ciudad, en una perspectiva emic (Fox 1977; Sjoberg 1960; Smith 1989, 1994, 2002; Trigger 2003). Se reflejan estas funciones en los diversos elementos arquitectónicos de la zona monumental, incluso los templos, el juego de pelota, la “Pirámide occidental”, la residencia de
la familia gobernante de la Plaza Superior y de la Plaza Principal, en donde podrían haberse realizado eventos rituales, políticos y religiosos, o mercados periódicos. En las terrazas de las laderas del centro monumental, existía una importante zona residencial. Esas terrazas, en particular la Terraza 3, contenían pruebas de una amplia gama de actividades artesanales de producción, por y para los mismos residentes del centro monumental, incluyendo el hilado, tejeduría, producción de navajas de obsidiana y trabajo de madera o piedra. El número y la variedad de manos y metates sugieren la importancia del procesamiento de maíz, en el centro monumental. El número de cuencos, platos decorados, platos trípodes y vasijas cilíndricas sugiere que el procesamiento de maíz se relacionó no sólo con el consumo diario de alimentos, pero posiblemente también para las fiestas entre los residentes élites del centro monumental. Otros metates podrían haber sido utilizados para la producción de cerámica, una idea sugerida originalmente por Weiant (1954a). Moxviquil participó activamente en las redes de intercambio local, regional e interregional, y podría haber ocupado un importante papel regional religioso relacionado con el culto a Dios N, como lo indican las vasijas de cerámica especializadas.

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