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Cover illustration:

GI 'Hunahpu

Birth: 1.18.5.3.2 9 Ik 15 Ceh 2697 B.C.

Drawing by Linda Schele

The Carved Ceramics Called Chocholá

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The first finely carved vase from Yucatán in the style now termed Chocholá was published by John Lloyd Stephens in 1843. Stephens was impressed by its workmanship and noted that the human profile on the vessel exhibited “a strong resemblance to those of the sculptured and stuccoed figures at Palenque . . .” (Stephens 1961:163). Stephens was shown this vase when he visited the mounds near Ticul, a village 26 km east of Uxmal in the Puuc hills of northwestern Yucatán. Carved into the outer wall of the vessel is the bust of a young lord, his forehead flattened in the Classic Maya style, gesturing with one hand from within a floral cartouche. The non-figured area of the vessel is fluted with parallel vertical lines. Though Stephens considered this vessel to be finer than others he had seen in Yucatán, other more finely carved pieces have since come to light, appearing in private collections with the unverifiable provenience of northern Yucatán.

The few early publications of carved vessels in this style indicate the same area as the probable source for the pots. Spinden included drawings of two pieces in *A Study of Maya Art* (1913: Figs. 185, 186). He reported a pale yellow bowl from Peto, which is actually in the northern part of the state of Quintana Roo, into which had been carved the image of a personified jaguar wearing a water lily on its forehead. The water lily jaguar is framed in a cartouche composed of water lily stems and blossoms. Spinden's second Chocholá style bowl reportedly originated in Calcehok, Yucatán, near Maxcanú, east of Mayapan and quite distant from Peto, but close to Ticul. The beaker carries the image of a profile young lord wearing a jaguar-head headdress, and holding a water lily stem and blossom.

In his survey of the archeological ceramics of Yucatán, George Brainerd (1958:244) included the same Chocholá style vessel, which he characterized as “unquestionably the highest development of the Florescent slateware tradition.” Brainerd viewed the beaker as outside of the complex typologies that he had formulated for Yucatán slatewares, where the closest similarities could logically be expected. R. E. Smith (1971) unearthed no Chocholá type

ceramics at Mayapán, nor did he note any in the complexes of Kaban, Uxmal, or Chichen Itzá.

Thus, the three vessels of this vaguely provenienced style come from different areas of the Yucatán, are carved with water lily imagery, and are accompanied by short glyphic texts.

Michael Coe (1973) was responsible for the first publication of a group of Chocholá style vases in *The Maya Scribe and His World*. He included fifteen examples of vessels carved in this style which were reputedly unearthed from sites near Chocholá and Maxcanú, respectively 30 and 65 km southwest of Mérida (Coe 1973: 144). Though he believes it is true, Coe obtained this information second- or third-hand. The problem with accepting northern Yucatán as the origin of these vessels is that their iconography, as I will demonstrate, is not characteristic so much of known Yucatán ceramics as it is of Peten ceramic iconography. The appearance of such typical Peten ceramic iconographic characters as the water lily jaguar and Gods L, K, and GI of the Palenque Triad is an anomaly which is impossible to explain in terms of the present state of knowledge about sociopolitical connections between the Central and Northern Maya area during the Late Classic Period.

It is possible that paste compositional analysis of a selection of Chocholá pots by the Maya Polychrome Ceramic Project could indicate the sources of clays from which the pots were manufactured and shed some light on their origins. However, to date, the analyses of this carbonate-tempered ceramic ware have not been completed (Garman Harbottle and Dorie Reents, personal communication, June 1983).

On several occasions during the three years that I have been studying this group of ceramics, I have entertained the idea that all these pieces were of modern manufacture. But the Chocholá style vessels first appeared in the sixties, when modern copyists' skills were not adequate to produce unassailable Maya glyphs and iconography. Additionally, the opinions of scholars familiar with Maya ceramics, including Michael Coe, and Peter Schmidt of INAH, are that the materials and techniques used to create

the vessels are pre-Columbian and their aged appearance is typical of ceramics unearthed from previously undisturbed burials. So while I accept the genuineness of the pieces that I am discussing in this paper, I must, like everyone, deplore that their archeological context has been destroyed. We will never know whether all the pots are from the same burial, or how they might have been positioned among several tombs. If the scenes on these pieces ever formed a narrative sequence, as suggested for the Codex-style vases published by Robicsek and Hales (1981), it is certainly lost.

So at present, there is simply no archeological or scientific data on this exceptional group of ceramics, and at best it will be possible to define the style, examine the iconography, and study the hieroglyphic texts to attempt to determine the relation of these pots to the corpus of Maya ceramics.

Towards an Identification of the Chocholá Style

Maya carved vessels were manufactured at various locations throughout the span of Maya civilization. Gouged or incised carving appears in the Aguila Orange and Balanza Black groups during the Early Classic Tzakol I-III phases in the Central Peten. A brown carved ware was created in the Late Classic Tepeu phase and a red mold-made ware during Tepeu III (Smith and Gifford 1964:507). Highly polished carved ceramics with glyphic texts and complex figural scenes are known from Alta Verapaz and the Guatemala highlands (see Coe 1973:130-135), but for the most part, the subjects portrayed on these wares do not coincide with the limited number of subjects that I will show are included in the Chocholá style. Puuc Slate Ware and Thin Slate Ware from Yucatán are incised or modelled wares belonging to the Cehpech ceramic complex, considered to be transitional Late Classic to Postclassic, but these ceramics are not executed in the fine modelled relief style typical of Chocholá (Smith 1971:165).

A potter working in the Chocholá tradition shaped the pot and let it dry to a leather hard state, carved out the background and heavier outlines, then modelled subtle areas of relief with a finely pointed stick or other tool. He (or she) frequently burnished the uncarved portions of the vessel. Specular hematite or cinnabar was rubbed into the incised areas of some vessels after firing. A few pieces show traces of post-fire painting.

The relief decoration of the vessels is not achieved simply through the use of incised lines. What sets the Chocholá style apart from other Yucatán carved ceramic traditions is the adept manipulation of modelled low relief, similar to the facial modelling seen on stone monuments from the Usumacinta region. In the finest examples of the Chocholá style, treatment of anatomical features and the use of various incised and gouged textures to represent hair, feathers, and some textiles is imaginatively controlled. Many of the figures are conceived in the dynamic, complex postures again characteristic of Usumacinta region monuments between 9.16.0.0.0 and 9.19.0.0.0. These features indicate that Chocholá wares

were manufactured in the Late Classic era.

Is it possible to define a Chocholá style? I examined photographs of published and unpublished carved pottery that seemed similar to the pieces Coe has called Chocholá. The pots were sorted according to size, decorative technique, iconography, and glyphic texts. From a collection of over 200 images I culled a group which shares all of the characteristics described below. I eliminated from this stylistic group some vessels Coe published as belonging to the Chocholá style, and added seventeen to the eighteen published vessels that I accept as Chocholá style. Many vessels similar to this style in technique and/or iconography exist, and all of them also lack archeological context. For the present purpose I prefer to limit the stylistic group rather than assume that all similar carved vessels were created in the same time and place.

This group of thirty-five pots share all of the following physical characteristics:

- 1) They are between 10 and 15 cm in height.
- 2) Three simple Late Classic vessel shapes are used: a restricted orifice bowl (9 examples), a cylinder (over 15 cm tall: 3 examples), and a beaker, an intermediate size vessel with slightly curving walls and an everted rim (13 examples).
- 3) None of the vessels have any type of supplementary foot.
- 4) They are generally unpainted, with the exception of a post-fire black on five pieces, so that the fired clay body is the color of the vessel. The color of the fired clay has been described as "chocolatey" by Coe (personal communication, 1983). The tones range from the pale yellow Peto beaker to the glossy, dark gray of the *Bound GI*, which was burnished, then reduced after firing.
- 5) They are carved in low relief, not simply incised.
- 6) Iconographic information is presented in a single scene, contained in a cartouche.
- 7) Feathers, plants, and body parts frequently break the edges of the cartouche to interact with the smooth, uncarved portion of the vessel.
- 8) When a hieroglyphic text is present, it most frequently forms a diagonal band on the opposite side of the vessel from the carved scene. A few pots whose vertical texts parallel the Chocholá sequence and otherwise follow these parameters have been included in the core group.

The Chocholá Hieroglyphic Sequence

The Chocholá sequence contains four to ten glyphs (see Figure 1). It generally begins with a Moon Sign (T13.682:18), and a winged quincunx (T61.77:585) acts as verb, probably referring to the journey of a deceased individual to the Maya Underworld (Coe 1973:22). The remaining glyphs are probably nominals of the individuals. Frequently, Spotted Kan (T507:196.99) and another Moon Sign (T25.682:178) are among the titles in the appellative. None of the names or emblem glyphs that appear are familiar to me from monumental inscriptions, but the monuments of Yucatán and Campeche, where the nominals might be expected to appear, are the least

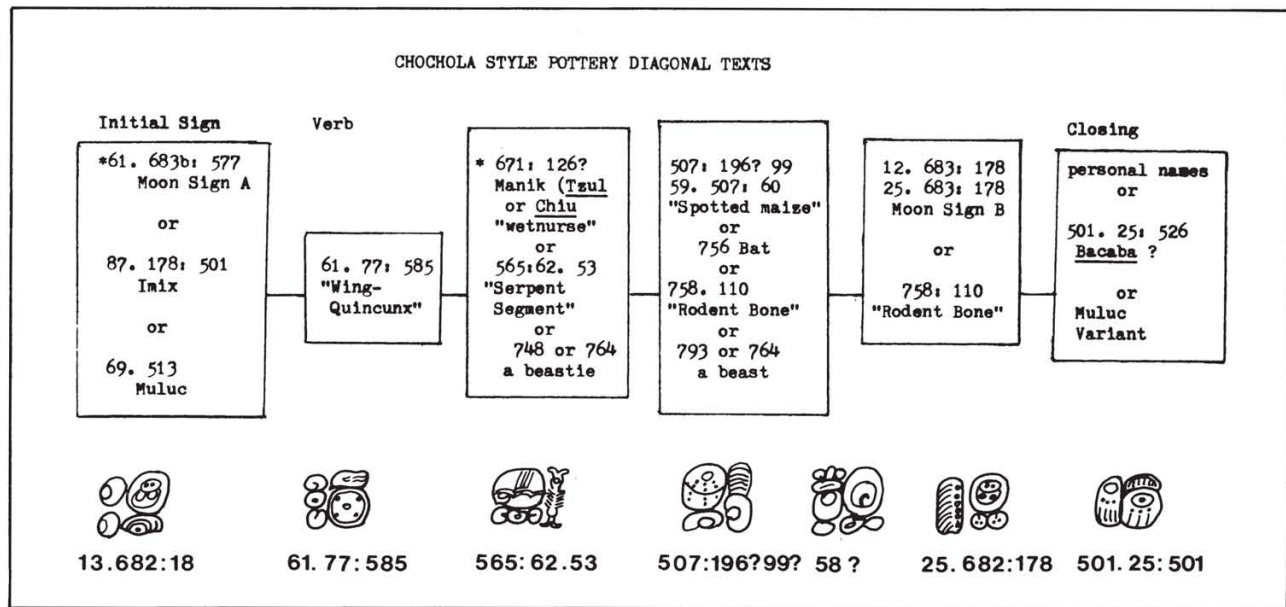


Fig. 1 Chocholá Hieroglyphic Sequence.

known to epigraphers.

Texts that appear in a horizontal band under the rim of the pot do not conform to this Chocholá sequence, but from another somewhat consistent group initiated by Cauac (T528) and Manik hand compounds. The horizontal texts and the post upon which they appear have been eliminated from the core Chocholá style group, but some are certainly related to the Chocholá style.

Not one of the Chocholá style ceramics contains any Long Count or Calendar Round date that would securely establish the temporal placement of the group. One pot, Grolier #65 (Coe 1973), has a carved 13 Ahau glyph cartouche. Coe has suggested that the most likely corresponding Long Count is 9.17.0.0.0, which is consistent with the Late Classic character of the style and iconography.

Major Iconographic Themes

I. *The Water Lily Complex.* The most frequently recurring visual symbols on Chocholá pots are related to the water lily complex. As defined by Linda Schele (1979b), the water lily complex includes images of fish, water birds, shells, water lily plants and flowers, fish nibbling at water lilies, and birds eating fish. Taking off from the work of Dennis Puleston, Schele described the origins of the complex of water lily-related symbols in the observable phenomena surrounding Maya intensive agricultural practices (Schele 1979b). Puleston had demonstrated experimentally that canals and reservoirs constructed for irrigation purposes quickly became choked with water lilies, which attracted fish from the rivers, which in turn attracted water birds. Puleston's reclamation of a pre-Columbian raised field took place south of San Antonio, Belize. Ray Matheny (1978) has discovered undeniable evidence of canal and reservoir-supported agriculture at

Edzná, a site with a long series of Classic style monuments near the Río Champotón in Campeche, closer to the reported origin of Chocholá pots, but in a different ecological zone. Apparently northern Yucatán is not suited to this form of agriculture, but water lily iconography nevertheless appears prominently on architecture in the Yucatán. A human figure grasping a water lily stem, accompanied by leaping fish appears on the entablature of one of the early temple constructions of the Temple of the Magicians at Uxmal (Foncerrada de Molina 1965: Lam. XLIV). Water lilies also appear on the East Facade of the Nunnery at Uxmal (ibid.: Lam. XVd). Water Lily Monster heads decorate Hall E of the Ball Court of Chichén Itzá, where they form a basal panel upon which a figure stands.

The most common form of water lily iconography on Chocholá pots is a profile human bust, sometimes adorned with a water lily jaguar headdress, grasping the water lily stems that form a cartouche around him. Water lily iconography and supernaturals are the only kinds of images appearing on the beaker-shaped vessels.

Grolier #63, a Heron in a Water Cartouche, also belongs to the water lily thematic group.

Water Lily Monster heads appear on three Chocholá vessels – two of them on restricted orifice bowls, in opposition to the image of a slayed fish monster, and one on a beaker (Parsons 1980: Fig. 314; see Figure 2 and 3). These disembodied Water Lily Monster heads must be supernatural characters of underworld lore. Robicsek and Hales' (1981) study of Codex-style ceramics includes many examples of the Water Lily Monster. One of the most beautiful and unusual Chocholá pots shows a Water Lily Monster head sprouting stems and a broad blossom. An achondroplastic dwarf rests belly down on the water



Fig. 2 *Speared Fish Monster.*

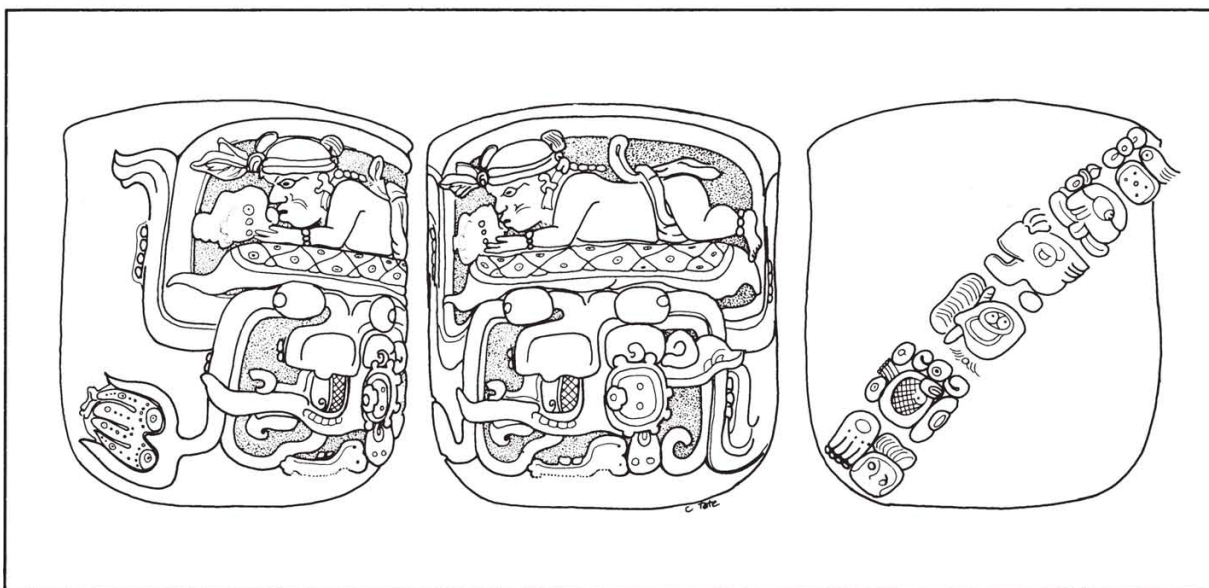


Fig. 3 *Music-Making Dwarf on a Water Lily Pad.*

lily pad, blowing on a conch shell trumpet. Music-making dwarves associated with water lilies and water birds are part of an iconographic complex which appears in monuments of the Pasión, Usumacita, and Peten areas. They can be seen on Bonampak Structure 1 murals and on the Tikal Structure 10 lintel.

II. *The Slayed Fish Monster Myth.* The intriguing Slayed Fish Monster makes two appearances on Chocholá pots. Linda Schele gathered a fish story that must be a fragment of a Chol myth that told the tale whose characters appear on the Tikal canoe scene bones (Burial 116), on Dumbarton Oaks Vase #7 (Coe 1975a), and on other pictorial polychromes from Northern Peten (see Robicsek and Hales 1981: Fig. 13). On the Dumbarton

Oaks pot, the Jaguar God of the Underworld, half submerged in water, spears the bleeding Fish Monster with a thrust from his upraised arm. Within the bloody water is the long-lipped head of the Water Lily Monster. The two restricted orifice Chocholá pots that show the Fish Monster portray him already slain on one side of the pot. Opposing him on the other side, the Water Lily Monster looks rather benignly upward (see Figure 2).

The Aged Stingray God is another character in this postulated fishing myth. On the carved Tikal canoe scene bones, he and the Old Jaguar God paddle the canoe that transports the deceased Ruler A through or into the Underworld. One and perhaps two depictions of the Aged Stingray God appear among Chocholá vessels. Figure 4 shows the bound Stingray God from the rear, his head

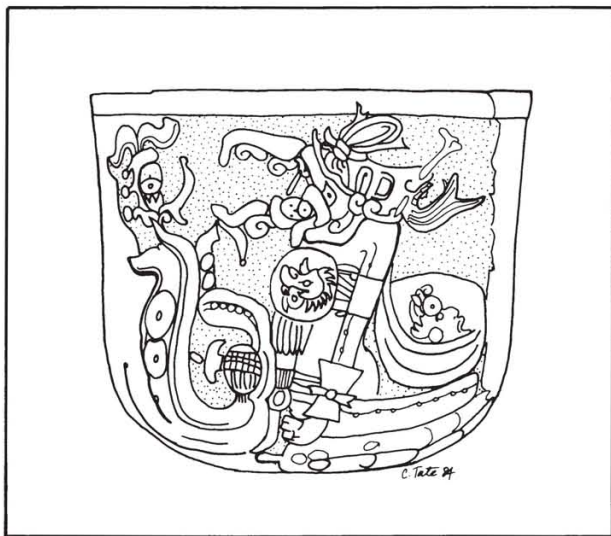


Fig. 4 Aged Stingray God.

thrown back as if in agony.* Glyphic names for the Aged Stingray God and the Old Jaguar God, known as the Paddlers, have been recently identified by David Stuart (Schele 1982:160). What could possibly be the Stingray God nominal glyph appears on a Chocholá piece, Dumbarton Oaks Vase #5 (Coe 1975a). This figure was previously identified by Coe as GI, and does have the shell earplug and carry the dangle element associated with GI as seen on Palenque's Temple of the Foliated Cross door jamb. The presence of the Aged Stingray God's nominal suggests a new identification for the figure on the Dumbarton Oaks vase.

GI of the Palenque Triad appears twice on the Chocholá pots, once in what may be a unique portrayal of him in tight bonds (Figure 5). Normally GI is an attacker when he is portrayed on pots, where he frequently brandishes an axe toward his brother, GIII, the Jaguar God of the Underworld, who reclines on a Cauac Monster. I include a drawing of a pot executed in a style related to Chocholá which shows GI with a smoking sacrificial basket (Figure 6).

III. Underworld Resurrection and the Vision Serpent.

Sacrifice and rebirth of the sun as the Jaguar God of the Underworld, or a ruler identified with the sun is implied by the depiction of the Cauac Monster on several vessels. This theme is common on Codex-style vessels (Robicsek and Hales 1981: Vessels 19-27). There, GI or God A of the codices threatens the infant Jaguar God of the Underworld (JGU) with a hafted axe while the Cauac Monster serves as a pedestal or location for the sacrifice. On Chocholá style vessels the scene is less explicit. The

* Peter Mathews has recorded the distribution of the Aged Stingray God on monuments from 9.2.10.0.0 at Tikal on an incised pot to 10.2.10.0.0 on a stela at Jimbal (1977).



Fig. 5 GI Bound.

Cauac Monster is simply shown on different sides of the same pot with the Water Lily Monster. The appearance of the Cauac Monster on a portion of a monument or pot implies that the scene is set in the Underworld. The Cauac Monster is contextually linked with royal or supernatural sacrifice in virtually all of its occurrences (Tate 1980).

Two of the most beautiful pots depict lords in car-touches which may be bones. A possible meaning for this representation is recorded in the *Popul Vuh*, when the Hero Twins, realizing that the underworld Lords of Death are planning to burn them up, arrange to have their ashes thrown into a shallow river, where they are magically reconstituted. Five days later, the reborn Twins emerge from the river as fish men. (See Figures 8 and 9.)

A related theme of emergence is demonstrated by two Chocholá style vessels which portray a youthful figure or a supernatural emerging from the maw of a bearded dragon or serpent (Figure 7). The serpent of Figure 7 has a bound hank of hair over his forehead like the anthropomorphic representations of GI or GIII. The vision serpent of Yaxchilán Lintel 15 has a similar beard and long hair appearing from its supraorbital plate. I think that the bearded serpent with emerging supernaturals can safely be equated with this vision serpent, which is apparently an indicator of the transport of supernaturals or those of divine lineage from one cosmic realm to another.

Other bearded dragons with bound hair appear on Codex-style vessels (Robicsek and Hales 1981: Vessels 5, 9, and 12). On these pots an aged God L or N appears

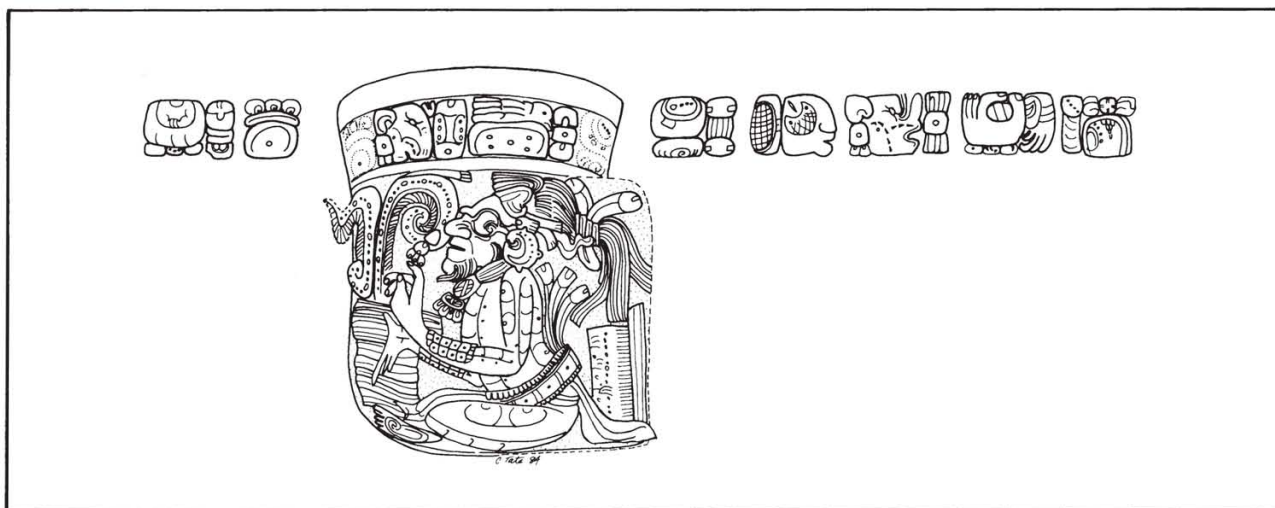


Fig. 6 GI and Sacrificial Basket. Horizontal Text. Not in Core Group.

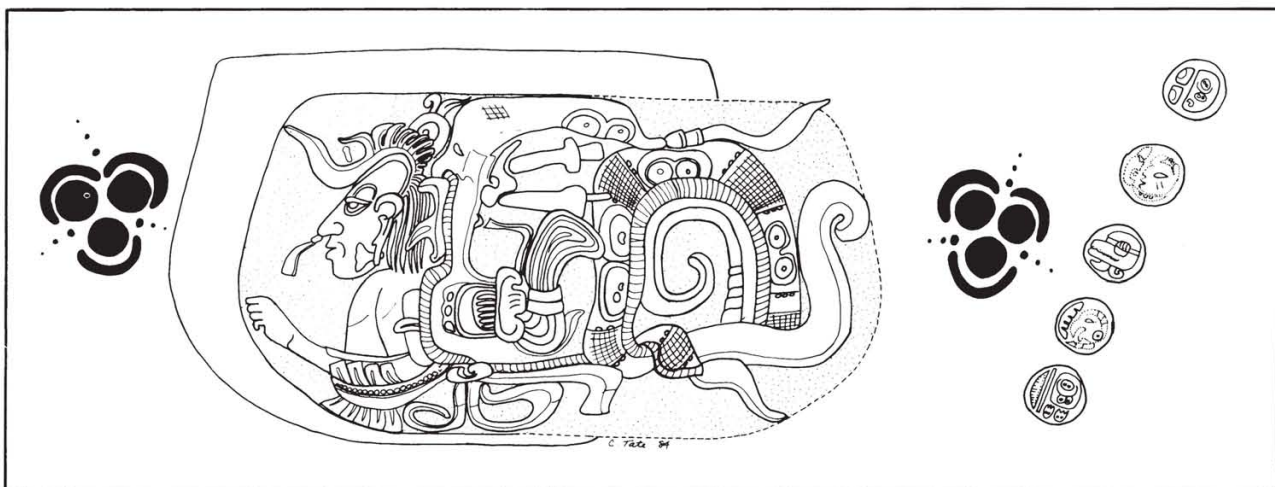


Fig. 7 Young Lord Emerging from a Serpent.

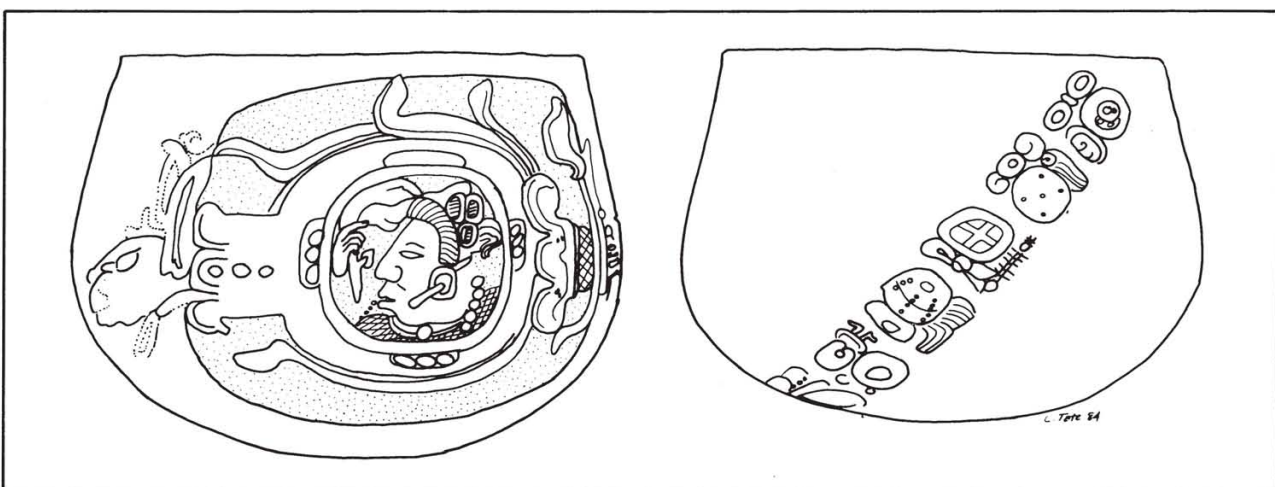


Fig. 8 Lord in Bone Cartouche I.

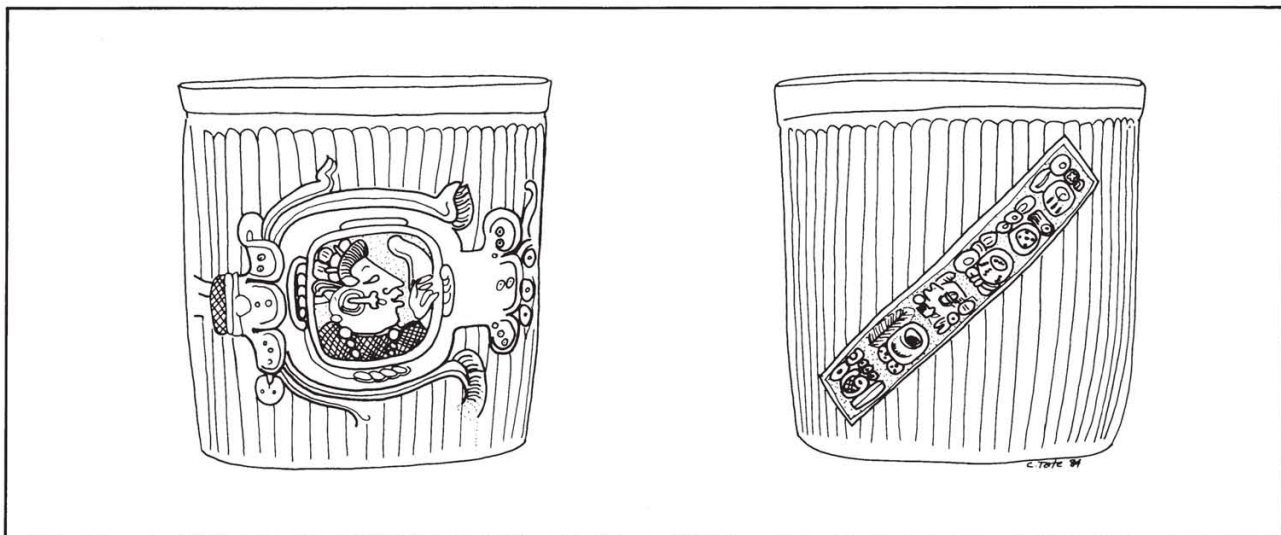


Fig. 9 Lord in Bone Cartouche II.

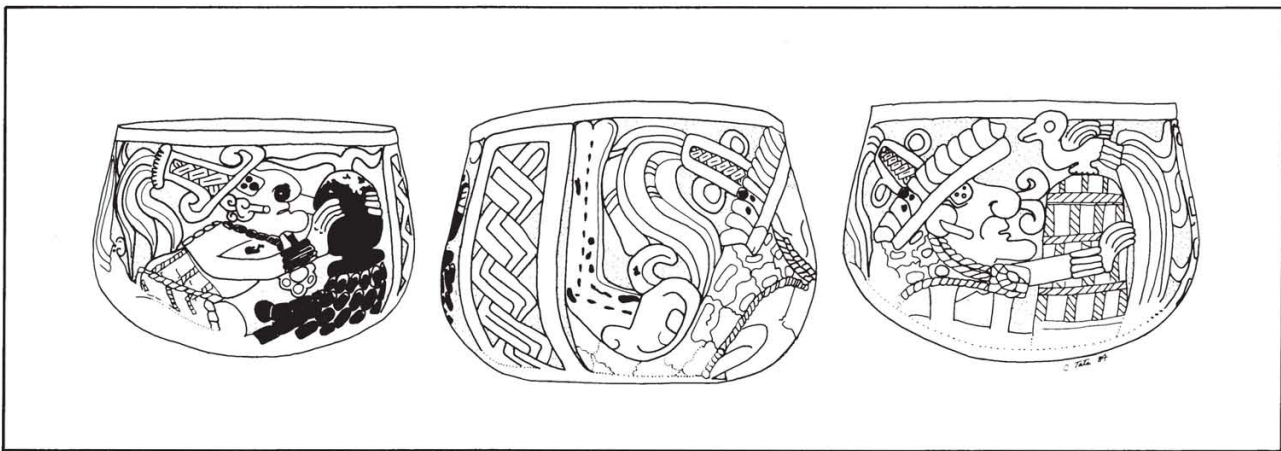


Fig. 10 God L, Bird and the Enema Vase.

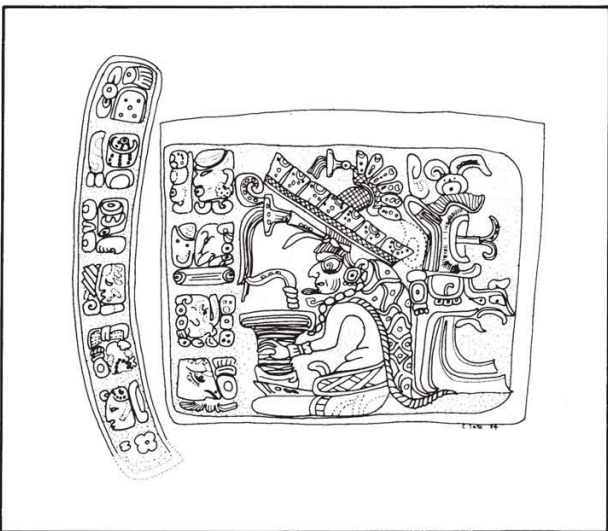


Fig.11 God L and a Sacrificial Basket.

from the monster's maw. Vessel 5 contains a scene in which the bearded dragon or vision serpent, God K of lineage blood, an Old God (undifferentiated God L or N), and a Cauac monster appear together. Each of these characters appear in combination with one or more of the others in Chocholá style vessels, indicating that, as Robicsek and Hales suggest, these characters all play a specific role in a long-lost Maya myth.

IV. *God L with God K on His Back.* Depictions of God L are remarkably consistent on the seven Chocholá pots upon which they appear. He is shown as aged by a toothless mouth and flaccid skin. He wears a cape of jaguar skin, or one of a texture which functions polyvalently as water lily pad and turtle shell. On four pots he is shown with a rope around his neck; the other three depictions show his neck ornament as a heavy bead necklace and pendant (Coe 1973: Figure 56; Robicsek 1978: Figure 189; Sotheby Parke Bernet Sale Catalog #4306: Figure 243). (See Figures 10 and 11.)

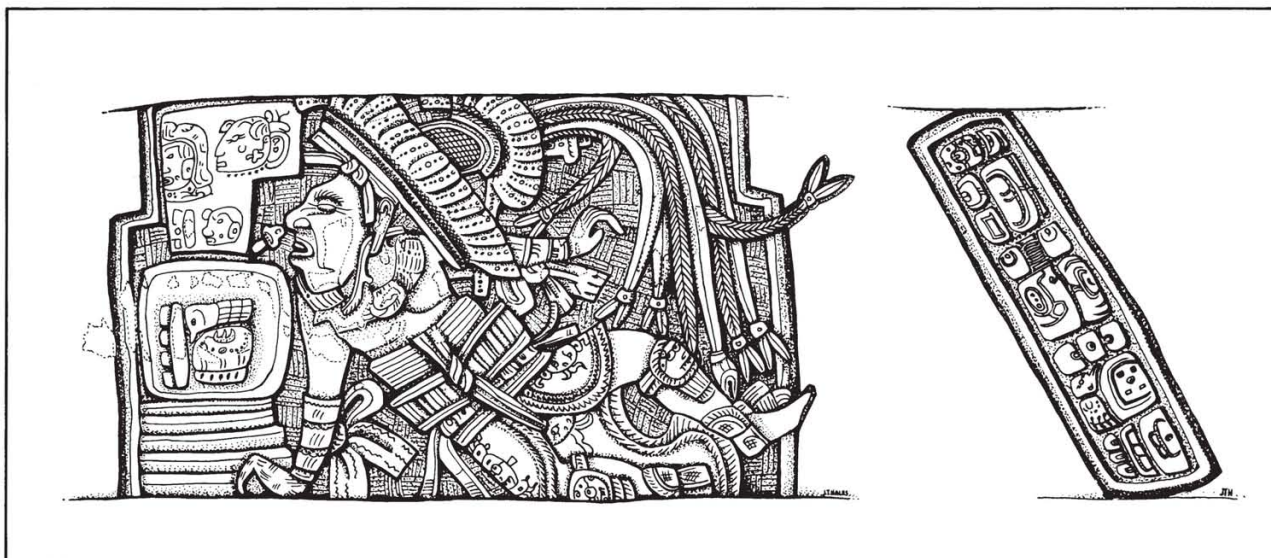


Fig. 12 *Ballplayer I*. Drawing Courtesy J.T. Hales.

The disembodied head of God K appears on the hunched back of God L on four of the pots (see Figure 16). The most interesting of this group is a bowl showing God L in two panels separated by mat symbols. In one panel, God L, marked with an *Ix* eye, reaches for the tailfeathers of a bird perched on a bound bundle. On the opposite side of the vessel, God L has removed the muan feather brim for his tall, curved crown headdress and is spilling a black, pellet-like substance from a smoking black jar. This post-fire black paint is commonly associated with the God L series of pots.

God L's appearance on Chocholá vessels is very similar to his portrayals on monuments, such as the Palenque Temple of the Cross sanctuary doorjambs and a carved column from Campeche, now in the Regional Museum of that state.

V. *Ballplayers*. The three cylinders included in the Chocholá core group all bear ball-player scenes, have diagonal hieroglyphic texts, and are very similar in stylistic treatment. On each, the ballplayer is shown touching the ground with his hand and knee while his opposite hand and foot are raised. A depiction of the stepped wall of the ballcourt is included on the edge of each scene. On each vase, the negative space within the scene is textured in a specific pattern of squares composed of incised parallel lines or is crosshatched. One of the ballplayers wears a broad brim of feathers over a netted crown head covering (similar to God L's hat). The other two players wear bird heads with long beaks as their headdresses. (See Figures 13, 14, and 15.)

Carved Vessels Related to the Chocholá Style

Some of the pots called "Chocholá style" by Coe actually differ from the definitive group sufficiently to consider them related to or sharing influences with the Chocholá style. As I examined the large group of ceramic images I had collected, I found some pots that for various



Fig. 13 *Ballplayer II*.

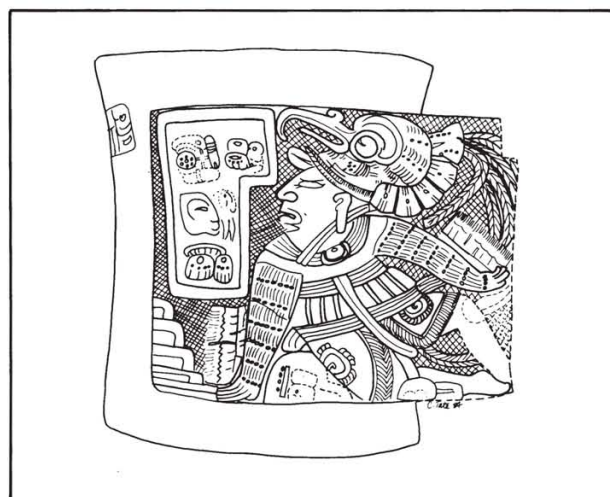


Fig. 14 *Ballplayer III*.

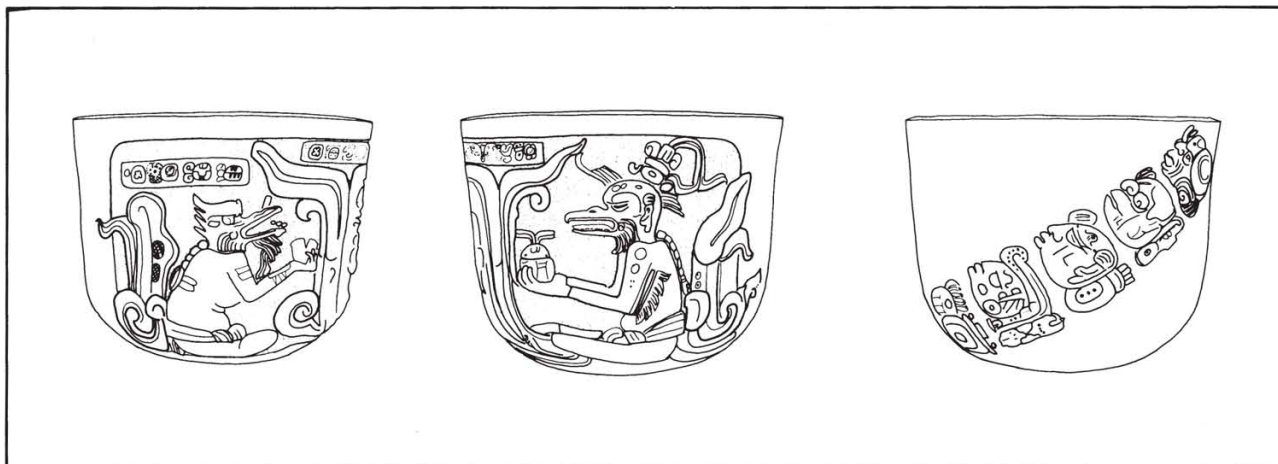


Fig. 15 Harpy Eagles.



Fig. 16 God L Carrying God K on His Back.

reasons were congruent stylistically to the deleted pieces. In other words, additional examples of these styles have been found which tend to form distinct stylistic groups, and it is best to consider them as having separate origins from Chocholá pots.

A. *Monkey Supernaturals*. Two vessels in carved and modeled relief similar to the Chocholá style depict dual scenes of deer-eared monkey supernaturals holding codices and ink pots, forming an interesting iconographic group. Neither piece bears the Chocholá glyphic sequence. On both, the two scenes are bounded by simple shapes of unbroken line. (See Robicsek and Hales 1981: Figure 20a and b; Coe 1982: #16.) The theme of monkey scribes appears in sixteen Codex-style vases and a pictorial polychrome from the Usumacinta region which is now at Duke University (Robicsek and Hales 1981:128).

B. *Enthroned Young Males with Sky Band Glyphs*. Grolier #54 is carved in a somewhat clumsy plano-relief rather than being carved and modeled. The piece has straight sides and is tall for a Chocholá vessel, measuring

20.6 cm. The pot is decorated with two vertical rectangular panels containing images of enthroned figures wearing the absolute minimum for a Maya – a loincloth and simple ear dangles. Two glyphic panels divide the figural scenes. Some of the glyphs represent planetary bodies or stars, a type of sky band.

A vase in Chicago also contains the image of a seated figure with bound hair, and is carved with a series of squared glyphs, several of which are identical to Grolier #54. On the opposite side of the vessel from the seated figure is a long-haired, open-mouthed serpent from whose mouth GIII of the Palenque Triad emerges. It is similarly executed in plano-relief and is taller than the Chocholá group at 17.5 cm.

C. *Deer Supernaturals*. Two beautiful beakers, Grolier #66 and Dumbarton Oaks #6 (Coe 1975a) resemble each other so strongly that they may have been produced by the same hand. Each is organized with two narrative scenes separated by two vertical panels containing over-size glyphs. On both vessels, crosshatching and other varieties of incised texturing are utilized extensively to

depict textiles, fur, and value. On both pots appears a deer wearing a blanket that protects him from his strapped-on burden. The glyphs are large and fluid in line, with extensive use of crosshatching in the interior.

D. A group of craved pieces united by their iconography share certain traits with the Chocholá style but differ in technique. They are Grolier #53, Dumbarton Oaks #4 (Coe 1975a), and Robicsek 1978: Plates 190-192. The fourth piece I include is an example of Puuc Slate Ware from the collection of the Dallas Museum of Fine Arts. These four cylinders all portray young lords with frontal bodies and heads in profile. Sacrificial paraphernalia appears in all scenes. The vessel published by Robicsek is light buff polished clay incised with a frenzied drawing of a smoking-face supernatural dancing before an enthroned lord who sprouts water lilies. This pot is also in the Dallas Museum of Fine Arts. The *fleur de lis* that sometimes appears on Chocholá pots showing God L iconography is present on Dumbarton Oaks #4, but rendered in a resist technique. Around the upper rim of this pot is a band of blue paint, a feature that never appears in the definitive Chocholá group. This vase also shows a seated personage shown frontally. He wears a nose mask and beaded helmet similar to the bloodletting costume shown on many monuments from the Petexbatun region (Martin Diedrich, "The Bloodletting Iconography of Shield God K of Dos Pilas," a paper presented at this conference). Like Chocholá pots, this piece has a diagonally oriented text of five glyphs, but unlike Chocholá pieces, these are simply repeated Muluc variants rather than a syntactic sequence. These three vases are probably Puuc Thin Slate Ware with Chocholá influences, as are many vessels of the Postclassic in Yucatán.

The last piece I wish to include in this discussion is the magnificent modelled cylinder in the Kimbell Museum in Fort Worth (Grolier #53). The scene shown is similar to the previous three vases – a lord seated on a throne is accompanied by a figure holding a basket reminiscent of the sacrificial baskets on the Yaxchilán lintels. Details of the palace frame the scene, and include a swag curtain and a strange semi-quatrefoil cartouche through which can be seen a hand holding a fiber bag. The lord wears an elaborate bird headdress which is pierced through the nostril with a sharp spine. The posture of the lord is impossibly awkward; he twists completely backward to face his attendant. The style of this piece is nowhere near the crude plano-relief of the Puuc Slateware or Thin Slate vessels, nor is it as assured in the treatment of the figures as are the Chocholá style vessels.

Ritual Use of the Vessels

An interesting correlation between vessel form and iconography appeared during the course of this study. The restricted orifice vessels are the only ones that show the Slayed Fish Monster. Five of the six representations of God L are also on restricted orifice bowls. Ballplayers appear only on cylinders. It is primarily the beakers which carry the Lord in Water Lily Cartouche imagery. Single

scene compositions with images of supernaturals such as GI, the Aged Stingray God or God L are confined to beakers. This suggests a specific ritual function for each vessel.

Conclusions

It is remarkable that not one carved-modelled vessel with the five categories of Late Classic iconography discussed above has appeared in an archeological excavation. Furthermore, according to ceramists at Instituto Nacional de Antropología e Historia in Mérida, no sherds resembling Chocholá ware appear in their extensive collection. In fact, these experts were unaware of the existence of the style. These facts suggest that Chocholá type ceramics were not manufactured at Chichen Itza, Uxmal, Kabah, Jaina, nor along coastal areas where excavations have been performed. Apparently Chocholá ceramics were not traded either, since they have not turned up in surface collections from the Yucatán peninsula. I suspect that they originated in tombs of a single small site, now looted. But still unexplained is their skillful rendering and their iconographic links with the central Maya area. If Chocholá type vessels were made by a single school of potters, how did this group come to be cognizant of Peten ceramic iconography and figural style? If exposure of the artists to trade wares from the Peten were responsible for the similarities, then we should expect to find much more evidence of stylistic influence from the Central area appearing in Yucatán.

But at present, our knowledge of the Classic period inscriptions and history in the Yucatán is not well developed. The long series of Classic monuments from Edzná, Oxkintok and other northern sites have not been thoroughly studied, and could provide some explanation for the interaction between the northern and central areas during the Classic era. Stylistically, the carving on monuments from these sites is stiff in conception and lacks modulation of depth. Nevertheless, the area from Maxcanú to Edzná is a likely source for Chocholá type ceramics, since many sites are known to have been heavily looted.

Chocholá pots have the authoritative attention to detail and subtle handling that are characteristic of Jaina figurines. These two extraordinary Late Classic ceramic types are the qualitative exceptions to known archeological ceramics from Yucatán, but demonstrate that the Classic Maya world view and aesthetic sensibility was flourishing in Late Classic Yucatán.

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A Note About the Illustrations

The line drawings accompanying the text were done by the author, except as noted. Because I worked from standard photographs and in most cases have not seen the actual pots, the drawings are not meant

to be read as rollouts. Rather, they are done after the photographs, complete with all the edge distortion inherent in photographing a cylindrical object. Indications of depth of carving were eliminated after some trial drawings, because they tend to make the imagery confused. In these drawings I opted for clarity of imagery rather than a faithful reproduction of the surface of the pot.

Published Vessels in the Chocholá Core Group

By Vessel Shape and Theme

Restricted Orifice

- A. Speared Fish Monster and Water Lily Monster
 - 1. Parsons 1980: Figure 314
- B. Gods L and K
 - 2. Robicsek 1978: Figure 189, Plates 215-6
 - 3. Sotheby Parke Bernet Sale Catalog 4306. November 10, 1979. #243

Beaker

- A. Young Lord in Water Lily Cartouche
 - 4. Stephens 1843: Figure 12
 - 5. Coe 1973: Figure 59
 - 6. : Figure 60

7. : Figure 61

8. : Figure 62

Robicsek 1978: Plate 154

9. Spinden 1913: Figure 185

Brainerd 1958: Figure 61d

B. Seated Lord in Water Cartouche

10. Sotheby Parke Bernet Sale Catalog 3792. October 10-11, 1975 #504

11. Coe 1973: Figure 55

12. : Figure 58

Young Lord in Ahau Date Cartouche

13. Coe 1973: Figure 65

D. Heron in Water Cartouche

14. Coe 1973: Figure 63

E. Seated Lord Holding Water Lily

15. Coe 1973: Figure 57

F. Supernaturals

16. Coe 1975a: Figure 5. The Aged Stingray God

17. Coe 1973: Figure 64. God N and the Mosquito

18. Coe 1973: Figure 56. God L

Robicsek 1978: Plate 154. God L

Bibliography

- ACOSTA, JOSEPH DE
1880 *The Natural and Moral History of the Indies*. (Reprinted from the English translated edition of Edward Grimston, 1604.) The Hakluyt Society. London.
- 1970 *The Natural and Moral History of the Indies*. (Reprinted from the English translated edition of Edward Grimston, 1604, and edited by Clements R. Markham.) Vol. I. B. Franklin, New York
- ADAMS, R. E. W.
1971 *The Ceramics of Altar de Sacrificios, Guatemala*. Papers of the Peabody Museum of American Archaeology and Ethnology 63(1). Harvard University, Cambridge.
- 1973 Maya Collapse: Transformation and Termination in the Ceramic Sequence at Altar de Sacrificios. In *The Classic Maya Collapse*, edited by T. P. Culbert, pp. 133-163. University of New Mexico Press, Albuquerque.
- 1977 *Prehistoric Mesoamerica*. Little, Brown and Company, Boston.
- ADAMS, R. E. W., and ROBERT C. ALDRICH
1980 A Reevaluation of the Bonampak Murals: A Preliminary Statement on the Paintings and Texts. In *Third Palenque Round Table, 1978, Part 2*, edited by Merle Greene Robertson, pp. 45-59. University of Texas Press, Austin.
- ADAMS, R. E. W., and WOODRUFF D. SMITH
1981 Feudal Models for Classic Maya Civilization. In *Lowland Maya Settlement Patterns*, edited by Wendy Ashmore, pp. 335-349. University of New Mexico Press, Albuquerque.
- AMRAM, D. W.
1942 The Lacandon, Last of the Maya. *El Mexico Antiguo* 6:15-26.
- ANAWALT, PATRICIA RIEFF
1981 *Indian Clothing Before Cortes. Mesoamerican Costumes from the Codices*. University of Oklahoma Press, Norman.
- ANDREWS, DOROTHY, and HEATH DE ZAPATA
1978 *Vocabulario de Mayathan*. Merida.
- ANONYMOUS
1566 *The Discription of a Rare or Rather Most Monstrous Fische Taken on the East Cost of Holland the XVII of Nouember, Anno 1566*. London.
- ANONYMOUS
1689 *Gazophylacium Anglicanum: Containing the Derivation of English Words, Proper and Common; Each in an Alphabet Distinct: Proving the Dutch and Saxon to Be the Prime Fountains*. London.
- ARBER, EDWARD (editor)
1885 *The First Three English Books on America*. Scribner & Welford, New York.
- THE ARTS CLUB OF CHICAGO
1982 *High Culture in the Americas Before 1500*. The Arts Club of Chicago, Chicago.
- AULIE, H. WILBUR, and E. W. AULIE
1978 *Diccionario Ch'ol-Español, Español-Ch'ol*. Vocabularios Indígenas 21. Instituto Lingüístico de Verano, Mexico.
- AVENI, ANTHONY F. (editor)
1977 *Native American Astronomy*. University of Texas Press, Austin.
- BAILEY, NATHANIAL
1724 *An Universal Etymological English Dictionary: Comprehending the Derivations of the Generality of Words in the English Tongue, Either Ancient or Modern, from the Ancient British, Saxon, Danish, Norman and Modern French, Teutonic, Dutch, Spanish, Italian, as also from the Latin, Greek, and Hebrew Languages, Each in Their Proper Characters*. Second edition. London.
- BARDAWIL, LAWRENCE W.
1976 The Principal Bird Deity in Maya Art – An Iconographic Study of Form and Meaning. In *The Art, Iconography & Dynastic History of Palenque, Part III* (Proceedings of the Segunda Mesa Redonda de Palenque), edited by Merle Greene Robertson, pp. 195-209. Robert Louis Stevenson School, Pebble Beach.
- BARRERA VÁSQUEZ, ALFREDO
1980 *Diccionario Maya Cordemex: Maya-Español, Español-Maya*. Ediciones Cordemex, Merida.
- BARRERA VÁSQUEZ, ALFREDO, and SYLVANUS G. MORLEY
1949 The Maya Chronicles. *Contributions to American Anthropology and History* 10:1-85. Carnegie Institution, Washington.
- BARRERA VÁSQUEZ, ALFREDO, and SYLVIA RENDON

- 1948 *El Libro de los Libros de Chilam Balam*. Fondo de Cultura Economica, Mexico City.
- BARTHEL, THOMAS S.
- 1951 Maya-Astronomie. Lunare Inschriften aus dem Südreich. *Zeitschrift für Ethnologie* 76:216-238. Braunschweig.
- 1968a El Complejo Emblema. *Estudios de Cultura Maya* 7:159-193. Mexico City.
- 1968b Götter – Sterne – Pyramiden. *Paideuma* 14:45-92. Bamberg.
- 1977 Untersuchungen zur Großen Göttin der Maya. *Zeitschrift für Ethnologie* 102:44-102. Braunschweig.
- 1979 Enigmatisches im Codex Vaticanus 3773: Kosmogramm und Eschatologie. *Tribus* 38:83-122. Linden-Museum, Stuttgart.
- BAUDEZ, CLAUDE F.
- n.d. a Iconography and History at Copan. In *The Southeast Mesoamerican Periphery: Problems and Prospects*, edited by Patricia Urban and Edward Schortman. University of Texas Press, Austin, in press.
- 1985 The Knife and the Lancet: the Iconography of Sacrifice at Copan. In *Fourth Palenque Round Table, 1980*, edited by Elizabeth P. Benson. Pre-Columbian Art Research Institute, San Francisco.
- BAUDEZ, CLAUDE, and BERTHOLD RIESE
- 1982 Bacabs and Bicephalic Monsters in Copan Architecture. Paper presented at the 44th International Congress of Americanists, Manchester, England.
- BEETZ, CARL P., and LINTON SATTERTHWAITE
- 1981 *The Monuments and Inscriptions of Caracol, Belize*. University Museum Monograph 45. The University Museum, University of Pennsylvania, Philadelphia.
- BELLONI, PETRI
- 1551 *De Aquatilibus*. Paris.
- BENSON, ELIZABETH
- 1976 Ritual Cloth and Palenque Kings. In *The Art, Iconography & Dynastic History of Palenque, Part III* (Proceedings of the Segunda Mesa Redonda de Palenque), edited by Merle Greene Robertson, pp. 45-58. Robert Louis Stevenson School, Pebble Beach.
- 1982 The House as an Image in Mesoamerica. Paper presented at the 44th International Congress of Americanists, Manchester, England.
- BERLIN, HEINRICH
- 1944 Un Templo Olvidado en Palenque. *Revista Mexicana de Estudios Antropológicos* 6(1-2):62-90. Sociedad Mexicana de Antropología, Mexico.
- 1958 El Glifo 'Emblema' en las Inscripciones Mayas. *Journal de la Société des Américanistes* 47:111-119. Paris.
- 1959 Glifos Nominales en el Sarcófago de Palenque. *Humanidades* 2(10):1-8. Universidad de San Carlos, Guatemala.
- 1960 Mas casos del glifo lunar en numeros de distancia. *Antropología e Historia de Guatemala* 12(2):25-33. Instituto de Antropología e Historia, Guatemala.
- 1963 The Palenque Triad. *Journal de la Société des Américanistes* 52:91-99.
- 1965 The Inscription of the Temple of the Cross at Palenque. *American Antiquity* 30:330-342.
- 1968a Estudios Epigraficos 11. *Antropología e Historia de Guatemala* 20(1):13-24.
- 1968b The Tablet of the 96 Glyphs at Palenque, Chiapas, Mexico. *Middle American Research Institute Publication* 26:135-149. Tulane University, New Orleans.
- 1970 Miscelanea Palencana. *Journal de la Société des Américanistes* 59:107-128.
- 1973 Beiträge zum Verständnis de Inschriften von Naranjo. *Bulletin de la Société Suisse des Américanistes* 37:7-14.
- 1977 *Signos y Significados en las Inscripciones Mayas*. Instituto Nacional del Patrimonio Cultural de Guatemala. Guatemala.
- BINFORD, LEWIS R.
- 1968 Some Comments on Historical versus Processual Archaeology. *Southwestern Journal of Anthropology* 24(3):267-275.
- BISHOP, RONALD L., GARMAN HARBOTTLE, and EDWARD V. SAYRE
- 1982 Chemical and Mathematical Procedures Employed in the Maya Fine Paste Ceramics Project. In *Analyses of Fine Paste Ceramics [Excavations at Seibal, Guatemala]*, edited by Jeremy A. Sabloff, pp. 272-282. Memoirs of the Peabody Museum of Archaeology and Ethnology 15(2). Harvard University, Cambridge.
- BLOM, FRANS, and OLIVER LA FARGE
- 1926-27 *Tribes and Temples: A Record of the Expedition to Middle America Conducted by the Tulane University of Louisiana in 1925*. 2 vols. Middle American Research Institute Publication 1. Tulane University, New Orleans.
- BODLEIAN CODEX
see Caso, Alfonso.
- BOLZ, INGEBORG
- 1975 Sammlung Ludwig Altamerika. *Ethnologica* 7. West Germany.
- BOOS, FRANK H.
- 1968 Two Zapotec Urns with Identical Unclassified Figures Display a Unique Maize Fertility Concept. *Baessler Archiv* 16:1-8. Berlin.
- BOOTH, DAVID
- 1836 *An Analytical Dictionary of the English Language, in Which the Words Are Explained in the Order of Their Natural Affinity, Independent of Alphabetical Arrangement; and the Signification of Each Is Traced from Its Etymology*. Simkin, Marshall, London.
- BOVE, FREDERICK J.
- 1981 Trend Surface Analysis and the Lowland Classic Maya Collapse. *American Antiquity* 46:93-112.
- BRADLEY, HENRY (editor)
- 1914 *A New English Dictionary on Historical Principles*, Vol. 8, Part II. Clarendon Press, Oxford.
- BRAINERD, GEORGE W.
- 1958 *The Archaeological Ceramics of Yucatan*. University of California Anthropological Records 19. Berkeley.
- BRASSEUR DE BOURBORG, CHARLES ETIENNE
- 1864 *Relation des choses de Yucatan de Diego de Landa*. Auguste Durand, Paris.
- BRICKER, VICTORIA R.
- 1981 Las Ceremonias de Año Nuevo en las Monumentos Clasicos Mayas. Paper presented at the XVII Mesa Redonda of the Sociedad Mexicana de Antropología, San Cristóbal de Las Casas, Mexico.
- 1985 A Morphosyntactic Interpretation of Some Accession Compounds and Other Verbs in the Maya Hieroglyphs. In *Fourth Palenque Round Table, 1980*, edited by Elizabeth P. Benson. Pre-Columbian Art Research Institute, San Francisco.

- BRINTON, DANIEL GARRISON
1882 The Maya Chronicles, *Library of Aboriginal American Literature* 1. Philadelphia.
- BROTHERSTON, GORDON
1979 *Image of the New World*. Thames and Hudson, London.
- BRUCE S., ROBERTO D.
1976 *Textos y Dibujos Lacandonenses de Naja*. Colección Científica Lingüística 45. Instituto Nacional de Antropología e Historia, Mexico City.
- BRUNDAGE, BURR CARTWRIGHT
1979 *The Fifth Sun*. University of Texas Press, Austin.
- BUDKER, PAUL
1971 *The Life of Sharks*. Weidenfeld and Nicholson, London.
- BULLARD, WILLIAM R., JR.
1960 Maya Settlement Patterns in Northeastern Peten, Guatemala. *American Antiquity* 25:355-372.
- 1970 Topoxte, a Postclassic Maya Site in Peten, Guatemala. In *Monographs and Papers in Maya Archaeology*, edited by William R. Bullard, pp. 245-307. Papers of the Peabody Museum of Archaeology and Ethnology 61. Harvard University, Cambridge.
- 1973 Postclassic Culture in Central Peten and Adjacent British Honduras. In *The Classic Maya Collapse*, edited by T.P. Culbert, pp. 221-241. University of New Mexico Press, Albuquerque.
- BUSHNELL, G. H. S., and ADRIAN DIGBY
1955 *Ancient American Pottery*. Faber and Faber, London.
- BUTLER, MARY
1931 Dress and Decoration of the Old Maya Empire. *The Museum Journal* 12(2):155-183. The University Museum, University of Pennsylvania, Philadelphia.
- CARMACK, ROBERT
1966 El Ajpop Quiche, K'uk'cumatz: Un Problema de la Sociología Histórica. *Antropología e Historia de Guatemala* 18(1):43-50.
- CASO, ALFONSO
1928 *Las Estelas Zapotecas*. Mexico.
- 1960 *Codice Bodley 2858*, ed. facsimilar. Sociedad Mexicana de Antropología.
- CASO, ALFONSO, and IGNACIO BERNAL
1952 Urnas de Oaxaca. *Memorias del Instituto Nacional de Antropología e Historia* 2. Mexico City.
- CASTRO, JOSE I.
1983 *The Sharks of North American Waters*. Texas A & M University Press, College Station.
- CHARENCEY, CHARLES FÉLIX HYACINTHE GOUTIER, COMTE DE
1874 Essai d'analyse grammaticale d'un texte en langue maya. *Académie Nationale des Sciences, Arts et Belles Lettres de Caen, Mémoires* 141-161. Caen.
- 1875 *Essai d'analyse grammaticale d'un texte en langue maya*. Second edition. Le Havre.
- CHASE, ARLEN F.
1985 Postclassic Peten Interaction Spheres: The View from Tayasal. In *The Lowland Maya Postclassic: Questions and Answers*, edited by Arlen Chase and Prudence Rice. University of Texas Press, Austin, in press.
- n.d. Time Depth or Vacuum: The 11.3.0.0.0 Correlation and the Lowland Maya Postclassic. In *Late Lowland Maya Civilization: Classic to Postclassic*, edited by Jeremy Sabloff and E. W. Andrews V. University of New Mexico Press, Albuquerque, in press.
- CHASE, DIANE Z.
1981 The Maya Postclassic at Santa Rita Corozal. *Archaeology* 34(1):25-33.
- 1982 *Spatial and Temporal Variability in Postclassic Northern Belize*. Ph.D. dissertation, Department of Anthropology, University of Pennsylvania.
- 1985 Ganned But Not Forgotten: Late Postclassic Archaeology and Ritual at Santa Rita Corozal. In *The Lowland Maya Postclassic: Questions and Answers*, edited by Arlen Chase and Prudence Rice. University of Texas Press, Austin, in press.
- CHASE, DIANE Z., and ARLEN F. CHASE
1982 Yucatec Influence in Terminal Classic Northern Belize. *American Antiquity* 47:596-614.
- CHRISTALLER, W.
1933 *Die zentralen Orte in Suddeutschland*. Karl Zeiss, Jena. (Translated by Carlisle W. Baskin, 1966: *Central Places in Southern Germany*. Prentice Hall, Englewood Cliffs, New Jersey.)
- CLARKSON, PERSIS B.
1979 *Classic Maya Attire as Indicators of Status, Role, and Function*. Masters' thesis, Department of Archaeology, University of Calgary, Alberta.
- CLAYTON, THOMAS
1969 *The "Shakespearean" Addition in the Booke of Sir Thomas Moore: Some Aids to Scholarly and Critical Shakespearean Studies*. W. C. Brown, Dubuque.
- CLOSS, MICHAEL P.
1981 Venus Dates Revisited. *Archaeoastronomy* 4(4):38-41.
- 1982 On a Classic Maya Accession Phrase and a Glyph for "Rulership." *Mexicon* 4:47-50.
- 1985 A New Reading of Glyphs T12 and T229. In *Fourth Palenque Round Table, 1980*, edited by Elizabeth P. Benson. Pre-Columbian Art Research Institute, San Francisco.
- n.d. a The Dynastic History of Naranjo: The Early Period. *Estudios de Cultura Maya*, in press.
- COE, MICHAEL D.
1965 *The Jaguar's Children: Pre-Classic Central Mexico*. Museum of Primitive Art, New York.
- 1973 *The Maya Scribe and His World*. The Grolier Club, New York.
- 1975a *Classic Maya Pottery at Dumbarton Oaks*. Dumbarton Oaks, Washington, D.C.
- 1975b Death and the Ancient Maya. In *Death and the Afterlife in Pre-Columbian America*, edited by Elizabeth P. Benson, pp. 87-104. Dumbarton Oaks, Washington, D.C.
- 1977 Supernatural Patrons of Maya Scribes and Artists. In *Social Process in Maya Prehistory*, edited by Norman Hammond, pp. 327-347. Academic Press, New York.
- 1978 *Lords of the Underworld: Masterpieces of Classic Maya Ceramics*. Princeton University Press, Princeton.
- 1981a The Maya God N in the Memorial Art Gallery. *Porticus* 4:9-13. University of Rochester, New York.
- 1981b Religion and the Rise of Mesoamerican States. In *The Transition to Statehood in the New World*, edited by Grant D. Jones and Robert R. Kautz, pp. 157-171. Cambridge University Press, Cambridge.
- 1982 *Old Gods and Young Heroes: The Pearlman Collection of Maya Ceramics*. The Israel Museum, Jerusalem.

- COE, WILLIAM R.
1965 Tikal: Ten Years of Study of a Maya Ruin in the Lowlands of Guatemala. *Expedition* 8:5-56.
1967 *Tikal: A Handbook of the Ancient Maya Ruins*. The University Museum, University of Pennsylvania, Philadelphia.
- COE, WILLIAM R., and ROBERT J. SHARER
1979 The Quirigua Project: 1975 Season. In *Quirigua Reports* 1, edited by Wendy Ashmore, pp. 13-36. University Museum Monograph 37. University of Pennsylvania, Philadelphia.
- COE, WILLIAM R., EDWIN M. SHOOK, and LINTON SATTERTHWAITHE
1961 *The Carved Wooden Lintels of Tikal*. Tikal Report Number 6. Museum Monographs, The University Museum. University of Pennsylvania, Philadelphia.
- COFFMAN, ROBERT
1979 A Commentary on the Hieroglyphic Inscriptions of Naranjo, El Peten, Guatemala. Unpublished manuscript, University of Texas at Austin.
- COGGINS, CLEMENCY C.
1975 *Painting and Drawing Styles at Tikal: An Historical and Iconographic Reconstruction*. Ph.D. dissertation, Harvard University. University Microfilms, Ann Arbor.
1980 The Shape of Time: Some Political Implications of a Four-Part Figure. *American Antiquity* 45:727-739.
1983 *The Stucco Decoration and Architectural Assemblage of Structure 1-Sub, Dzibilchaltun, Yucatan, Mexico*. Middle American Research Institute Publication 49. Tulane University, New Orleans.
- COLBY, BENJAMIN N., and LORE M. COLBY
1981 *The Daykeeper: The Life and Discourse of an Ixil Diviner*. Harvard University Press, Cambridge.
- COLLIER, GEORGE A.
1975 *Fields of the Zotzil: The Ecological Bases of Tradition in Highland Chiapas*. University of Texas Press, Austin.
- CORDRY, DONALD, and DOROTHY CORDRY
1968 *Mexican Indian Costumes*. University of Texas Press, Austin.
- COROMINAS, JUAN (editor)
1954 *Diccionario Crítico Etimológico de la Lengua Castellana*, Vol. 4. Madrid.
- CORONEL, FRAY JUAN
1930 *Diccionario de Motul*, atribuido a fray Antonio de Ciudad Real. Talleres de la Compañía Tipográfica Yucateca. Merida.
- COWGILL, GEORGE
1963 *Postclassic Period Culture in the Vicinity of Flores, Peten, Guatemala*. Ph.D. dissertation, Department of Anthropology, Harvard University.
- CRAINE, EUGENE R., and REGINALD C. REINDORP (translators and editors)
1979 *The Codex Pérez and the Book of Chilam Balam of Maní*. University of Oklahoma Press, Norman.
- CRÓNICA DE MANÍ
1596 Latin American Library, Tulane University, New Orleans.
- DAVOUST, MICHEL
1982 Los primeros soberanos de Palenque. *Boletín de la Escuela de Ciencias Antropológicas de la Universidad de Yucatan* 52:25-46. Merida.
- DELGADO, HILDEGARD SCHMIDT
1963 *Aboriginal Guatemala Handweaving and Costume*. Ph.D. dissertation, Department of Anthropology, Indiana University.
- DE VOS, JAN
1980a *Fray Pedro Lorenzo de la Nada; Misionero de Chiapas y Tabasco; en el Cuarto Centenario de su Muerte*. (No publisher or place of publication listed.)
1980b *La Paz de Dios y del Rey; La Conquista de la Selva Lacandona; 1525-1821*. Colección Ceiba, Ensayo, 10. Gobierno del Estado de Chiapas, Tuxtla Gutiérrez.
- DIESELDORFF, ERWIN P.
1893a Ausgrabungen in Coban. *Zeitschrift für Ethnologie* 25:374-382. Berlin.
1893b Bericht über alte bemalte Tongefässe von Guatemala. *Zeitschrift für Ethnologie* 25:547-550. Berlin.
1922 Welchen Gott Stellen die Steindollen der Mayavölker dar? In *Festschrift Eduard Seler*, edited by Walter Lehmann, pp. 47-58. Strecker und Schroder, Stuttgart.
1926-31 *Kunst und Religion der Mayavölker*. 2 volumes. Berlin.
1939 *Los Secretos Contenidos en el Tablero del Templo de la Cruz de Palenque...* El Sobre Azul, Mexico.
- DURAN, FRAY DIEGO
1971 *Book of the Gods and Rites and the Ancient Calendar*. University of Oklahoma Press, Norman.
- DÜTTING, DIETER
1976 The Great Goddess in Classic Maya Religious Belief. *Zeitschrift für Ethnologie* 101:41-146. Braunschweig.
1978 "Bats" in the Usumacinta-Valley. Remarks on the Inscriptions of Bonampak and Neighboring Sites in Chiapas, Mexico. *Zeitschrift für Ethnologie* 103:1-56. Braunschweig.
1979a Sustina Gracia. An Inquiry into the Farmer's Almanacs of the Codex Dresden. *Indiana* 5:145-170. Berlin.
1979b On the Hieroglyphic Inscriptions of Three Monuments from Piedras Negras, Guatemala. *Zeitschrift für Ethnologie* 104:17-63. Braunschweig.
1980 Aspects of Classic Maya Religion and World View. *Tribus* 29:106-167. Linden-Museum, Stuttgart.
1981 Life and Death in Mayan Hieroglyphic Inscriptions. *Zeitschrift für Ethnologie* 106:185-228. Berlin.
1982 The 2 Cib 14 Mol Event in the Inscriptions of Palenque, Chiapas, Mexico. *Zeitschrift für Ethnologie* 107:233-258. Berlin.
1984 Venus, the Moon, and the Gods of the Palenque Triad. *Zeitschrift für Ethnologie* 109, in press. Berlin.
n.d. On the Context-dependent Use of Bi- and Polyvalent Graphemes in Mayan Hieroglyphic Writing. Paper presented at the Fourth Palenque Round Table, June, 1980, Palenque, Chiapas, Mexico.
- EARLE, DUNCAN M.
1983 The Metaphor of the Day in Quiche: Notes on the Nature of Everyday Life. In *Symbol and Meaning Beyond the Closed Community: Essays in Mesoamerican Ideas*, edited by Gary H. Gossen. Institute for Mesoamerican Studies, State University of New York at Albany.
- EASBY, ELIZABETH K., and JOHN F. SCOTT
1970 *Before Cortes: Sculpture of Middle America*. The Metropolitan Museum of Art, New York.

EDMONSON, MUNRO STERLING

- 1965 *Quiche-English Dictionary*. Middle American Research Institute Publication 30. Tulane University, New Orleans.
- 1971 *The Book of Counsel: The Popul Vuh of the Quiche Maya of Guatemala*. Middle American Research Institute Publication 35. Tulane University, New Orleans.
- 1976 The Mayan Calendar Reform of 11.16.0.0.0. *Current Anthropology* 17:713-717.
- 1981 Some Postclassic Questions About the Classic Maya. In *Ancient Mesoamerica, Selected Readings*, second edition, edited by John A. Graham, pp. 221-228. Peek Publications, Palo Alto, California.
- 1982 *The Ancient Future of the Itza: The Book of Chilam Balam of Tizimin*. University of Texas Press, Austin.
- n.d. a *Heaven Born Merida and Its Destiny*. University of Texas Press, Austin, in press.
- n.d. b The First Chronicle from the Book of Chilam Balam of Mani. Transcription from a photographic facsimile of text in Craine and Reindorp 1979:134-137. Manuscript.

EKHOLM, GORDON F.

- 1970 *Ancient Mexico and Central America*. American Museum of Natural History, New York.

EKHOLM, SUSANNA M.

- 1979a The Lagertero Figurines. In *Maya Archaeology and Ethnohistory*, edited by Norman Hammond and Gordon R. Willey, pp. 172-186. University of Texas Press, Austin.
- 1979b The Significance of an Extraordinary Maya Ceremonial Refuse Deposit at Lagertero, Chiapas. In *Actes du XLII^e Congrès International des Américanistes* 8:147-159. Société des Américanistes, Musée de l'Homme, Paris.
- 1981 The Lagertero Regional Style of Maya Moldmade Figurines. Paper presented at Mesoamerican Figurines: Their Archaeological Contexts and Iconographic Meanings, a University Seminar, Columbia University, New York.
- 1982 Una Ceremonia Maya de Fin de Ciclo. Paper presented at Cuarenta Años de Investigaciones Antropológicas en Chiapas: Conmemoración, San Cristobal de Las Casas, Chiapas. State Government of Chiapas, in press.
- 1983 End of Haab Ceremonies: Possible Ancient Muluc-year Rites at Lagertero. Paper presented at the Fifth Palenque Round Table, Palenque, Chiapas, Mexico.
- 1985 The Lagertero Ceramic 'Pendants'. In *Fourth Palenque Round Table, 1980*, edited by Elizabeth P. Benson. Pre-Columbian Art Research Institute, San Francisco.

ESCALONA RAMOS, ALBERTO

- 1933 *Historia de los Mayas por sus Crónicas*. Universidad Nacional del Sureste, Merida.

EUW, ERIC VON

- 1977 *Itzimte, Pixoy, Tzum*. Corpus of Maya Hieroglyphic Inscriptions, 4(1). Peabody Museum, Harvard University, Cambridge.
- 1978 *Xultun*. Corpus of Maya Hieroglyphic Inscriptions, 5(1). Peabody Museum, Harvard University, Cambridge.

FAULHABER, JOHANNA

- 1970 Anthropometry of Living Indians. In *Handbook of*

Middle American Indians, Vol. 9, edited by T. Dale Stewart, pp. 82-104. General editor, Robert Wauchope. University of Texas Press, Austin.

FITCHETT, ARTHUR G.

- 1974 Origin of the 260-day Cycle in Mesoamerica. *Science* 185:542-543.

FITZPATRICK, ELISE, and NICHOLSON J. EASTMAN

- 1960 *Obstetrics for Nurses*. Lippincott, Philadelphia.

FLANNERY, KENT V.

- 1972 The Cultural Evolution of Civilizations. *Annual Review of Ecology and Systematics* 3:399-426.

FONCERRADA DE MOLINA, MARTA

- 1965 *La Escultura Arquitectonica de Uxmal*. Imprenta Universitaria, Mexico.

- 1980 Mural Painting in Cacaxtla and Teotihuacan Cosmopolitism. In *Third Palenque Round Table, 1978, Part 2*, edited by Merle Greene Robertson, pp. 183-198. University of Texas Press, Austin.

FORSTEMANN, ERNST

- 1906 *Commentary on the Maya Manuscript in the Royal Public Library of Dresden*. Papers of the Peabody Museum of American Archaeology and Ethnology 4(2). Harvard University, Cambridge.

FOUGHT, JOHN G.

- 1972 *Chorti (Mayan) Texts (I)*. Edited by Sarah S. Fought. University of Pennsylvania Press, Philadelphia.

FOX, JAMES A., and JOHN S. JUSTESON

- 1980 Mayan Hieroglyphs as Linguistic Evidence. In *Third Palenque Round Table, 1978, Part 2*, edited by Merle Greene Robertson, pp. 204-216. University of Texas Press, Austin.
- 1983 Hieroglyphic Evidence for the Languages of the Classic Maya. Manuscript.
- n.d. Polyvalence in Mayan Hieroglyphic Writing. In *Phonetic Studies in Mayan Hieroglyphic Writing*, edited by Lyle Campbell and John S. Justeson, Institute for Mesoamerican Studies, State University of New York, Albany, in press.

FREIDEL, DAVID A.

- 1981 Civilization as a State of Mind: The Cultural Evolution of the Lowland Maya. In *The Transition to Statehood in the New World*, edited by Grant D. Jones and Robert R. Kautz, pp. 188-227. Cambridge University Press, Cambridge.
- 1985 New Light on the Dark Age: A Summary of Major Themes. In *The Lowland Maya Postclassic: Questions and Answers*, edited by Arlen Chase and Prudence Rice. University of Texas Press, Austin, in press.

FREIDEL, DAVID A., and LINDA SCHELE

- 1982 Symbol and Power: A History of the Lowland Maya Cosmogram. Paper presented at the Princeton Conference on the Origins of Maya Iconography, Princeton.

GANN, THOMAS

- 1900 *Mounds in Northern Honduras*. Nineteenth Annual Report 1897-1898, Part 2:655-692. Bureau of American Ethnology, Washington, D.C.
- 1918 *The Maya Indians of Southern Yucatan and Northern British Honduras*. Bureau of American Ethnology Bulletin 64. Washington, D.C.

GATES, WILLIAM E.

- 1932 Eras of the Thirteen Gods and the Nine Gods: Book of Chumayel, Pages 42-48. *Maya Society Quarterly* 1(2):78-92.

- GELB, IGNACE J.
1963 *A Study of Writing*. Second edition. University of Chicago Press, Chicago.
- GENDROP, PAUL
1980 Dragon-Mouth Entrances: Zoomorphic Portals in the Architecture of Central Yucatan. In *Third Palenque Round Table, 1978, Part 2*, edited by Merle Greene Robertson, pp. 138-150. University of Texas Press, Austin.
- GIRARD, RAFAEL
1962 *Los Mayas Eternos*. Libro Mex, Mexico.
- GOLDSTINE, HERMAN H.
1973 *New and Full Moons 1001 B.C. to A.D. 1651*. Memoirs of the American Philosophical Society 94. Philadelphia.
- GOODMAN, J. T.
1897 The Archaic Maya Inscriptions. Appendix to A. P. Maudslay, *Biologia-Centrali Americana; Archaeology*. R. H. Porter and Dulau and Company, London.
- GORDON, G. B.
1896 *Prehistoric Ruins of Copan, Honduras*. Memoirs of the Peabody Museum of American Archaeology and Ethnology 1(1). Harvard University, Cambridge.
- GOSSEN, GARY H.
1974 *Chamulas in the World of the Sun: Time and Space in a Maya Oral Tradition*. Harvard University Press, Cambridge.
- GRAHAM, IAN
1967 *Archaeological Explorations in El Peten, Guatemala*. Middle American Research Institute Publication 33. Tulane University. New Orleans.
1978 *Naranjo, Chunhuitz, Xunantunich*. Corpus of Maya Hieroglyphic Inscriptions 2(2). Peabody Museum, Harvard University, Cambridge.
1979 *Yaxchilan*. Corpus of Maya Hieroglyphic Inscriptions 3(2). Peabody Museum, Harvard University, Cambridge.
1980 *Ixkun, Ucanal, Ixtutz, Naranjo*. Corpus of Maya Hieroglyphic Inscriptions 2(3). Peabody Museum, Harvard University, Cambridge.
1982 *Yaxchilan*. Corpus of Maya Hieroglyphic Inscriptions 3(3). Peabody Museum, Harvard University, Cambridge.
- GRAHAM, IAN, and ERIC VON EUW
1975 *Naranjo*. Corpus of Maya Hieroglyphic Inscriptions 2(1). Peabody Museum, Harvard University, Cambridge.
1977 *Yaxchilan*. Corpus of Maya Hieroglyphic Inscriptions 3(1). Peabody Museum, Harvard University, Cambridge.
- GRAHAM, JOHN A.
1973 Aspects of Non-Classic Presences in the Inscriptions and Sculptural Art of Seibal. In *The Classic Maya Collapse*, edited by T. P. Culbert, pp. 207-217. University of New Mexico Press, Albuquerque.
- GRANGER, TIMOTHIE
1568 *A Moste True and Marueilous Straunge Wonder, the Lyke Hath Seldom Ben Seene, of XVII Monstrous Fishes, Taken in Suffolke, at Downam Brydye, Within a Myle of Ipswicke*. London.
- GREENE, MERLE
1967 *Ancient Maya Relief Sculpture*. The Museum of Primitive Art, New York.
- GREENE, MERLE, ROBERT L. RANDS, and JOHN A. GRAHAM
1972 *Maya Sculpture from the Southern Lowlands, the Highlands and Pacific Piedmont: Guatemala, Mexico, Honduras*. Lederer, Street and Zeus, Berkeley.
- GREENE ROBERTSON, MERLE
1974 The Quadripartite Badge – A Badge of Rulership. In *Primera Mesa Redonda de Palenque, Part I*, edited by Merle Greene Robertson, pp. 77-93. Robert Louis Stevenson School, Pebble Beach.
1979 A Sequence for Palenque Painting Techniques. In *Maya Archaeology and Ethnohistory*, edited by Norman Hammond and Gordon R. Willey, pp. 149-171. University of Texas Press, Austin.
- GREENE ROBERTSON, MERLE, MARJORIE S. ROSENBLUM SCANDIZZO, and JOHN R. SCANDIZZO
1976 Physical Deformities in the Ruling Lineage of Palenque, and the Dynastic Implications. In *The Art, Iconography & Dynastic History of Palenque, Part III*, Proceedings of the Segunda Mesa Redonda de Palenque, edited by Merle Greene Robertson, pp. 59-86. Robert Louis Stevenson School, Pebble Beach.
- GRIEDER, TERENCE
1960 Manifestaciones de Arte Maya en la Region de Petexbatun. *Antropología e Historia de Guatemala* 12(2):10-17. Instituto de Antropología e Historia, Guatemala.
1982 *Origins of Pre-Columbian Art*. University of Texas Press, Austin.
- GROVE, DAVID C.
1981 Olmec Monuments: Mutilation as a Clue to Meaning. In *The Olmec and Their Neighbors: Essays in Memory of Matthew W. Stirling*, edited by Elizabeth P. Benson, pp. 48-68. Dumbarton Oaks, Washington, D.C.
- GUITERAS HOLMES, CALIXTA
1960 La Familia Tzotzil en la Salud y en la Enfermedad. *Tlatoani* 2(13):4-6. Mexico.
- GUNTER, GORDON
1938 Notes on invasion of fresh water by fishes of the Gulf of Mexico, with special reference to the Mississippi-Atchafalaya River System. *Copeia* 2:69-72.
- HAKLUYT, RICHARD
1927 *The Principal Navigations, Voyages, Traffiques & Discoveries of the English Nation*, Vol. 4. Dutton, New York.
- HAMBLIN, ROBERT L., and BRIAN L. PITCHER
1980 The Classic Maya Collapse: Testing Class Conflict Hypotheses. *American Antiquity* 45:246-267.
- HAMILTON, FRANCIS
1822 *An Account of the Fishes Found in the River Ganges and Its Branches*. Edinburgh.
- HAMMOND, NORMAN
1973 *British Museum-Cambridge University Corozal Project, 1973 Interim Report* (editor). Centre of Latin American Studies, Cambridge University, Cambridge.
1974 The Distribution of Late Classic Maya Major Ceremonial Centres in the Central Area. In *Mesoamerican Archaeology: New Approaches*, edited by Norman Hammond, pp. 313-334. University of Texas Press, Austin.
1975 *Lubaantun, a Classic Maya Realm*. Monograph of the Peabody Museum of Archaeology and Ethnology,

- Vol. 2. Harvard University, Cambridge.
- 1977 Ex Oriente Lux: A View from Belize. In *The Origins of Maya Civilization*, edited by R. E. W. Adams, pp. 45-76. University of New Mexico Press, Albuquerque.
- HARRISON, PETER D.
1981 Some Aspects of Preconquest Settlement in Southern Quintana Roo, Mexico. In *Lowland Maya Settlement Patterns*, edited by Wendy Ashmore, pp. 259-286. University of New Mexico Press, Albuquerque.
- HAURY, EMIL W.
1933 Maya Textile Weaves. Unpublished manuscript, Tozzer Library, Harvard University, Cambridge.
- HAWKINS, JOHN
1569 *A True Declaration of the Troublesome Voyage of M. John Hawkins to the Parts of Guinea and the West Indies, in the Years of Our Lord 1567 and 1568*. London.
- HELLMUTH, NICHOLAS M.
1970 *Preliminary Bibliography of the Chol Lacandon, Yucatec Lacandon, Chol, Itza, Mopan and Quehache of the Southern Maya Lowlands; 1524-1969*. Third edition, revised. Katunob, Occasional Publications in Mesoamerican Anthropology 4. Museum of Anthropology, University of Northern Colorado, Greeley.
- 1971 *Progress Report and Notes on Research on Ethnohistory of the 16th-19th Century Southern Lowland Maya. Part I: The Cholti-Lacandon of Dolores (Sac Balam), Chiapas, 1695-1712. Part II: The Yucatec-Lacandon of San Jose de Gracia Real, 1786-1807*, revised (original 1970). Mimeographed, Guatemala City.
- 1978 *Tikal Copan Travel Guide: A General Introduction to Maya Art, Architecture, and Archaeology*. Foundation for Latin American Anthropological Research, Guatemala City and St. Louis.
- 1982 Cosmology, Zoology, and Iconography of Early Peten Maya Cache Vessels and Incensarios. Paper presented at the Princeton Conference on the Origins of Maya Iconography, Princeton University.
- HELMS, MARY W.
1977 Iguanas and Crocodilians in Tropical American Mythology and Iconography with Special Reference to Panama. *Journal of Latin American Lore* 3:51-133.
- HENDERSON, JOHN S.
1974 Origin of the 260-day Cycle in Mesoamerica. *Science* 185:542.
- HEYDEN, DORIS
1981 Caves, Gods, and Myths: World-View and Planning in Teotihuacan. In *Mesoamerican Sites and World-Views*, edited by Elizabeth P. Benson, pp. 1-39. Dumbarton Oaks, Washington, D.C.
- HOPKINS, NICHOLAS A.
1981 La Influencia del Yucatecano Sobre el Cholano y su Contexto Histórico. Paper presented at the XVII Mesa Redonda, Sociedad Mexicana de Antropología, San Cristobal de Las Casa, Chiapas.
- 1982 Cholan as Western Mayan With a Yucatecan Substratum. Paper presented at the Annual Meeting of the American Anthropological Association, Washington, D.C.
- HOUSTON, STEPHEN, and PETER MATHEWS
1983 The Dynastic Sequence of Dos Pilas, Peten, Guatemala. Paper presented at the Fifth Palenque Round Table, Palenque, Chiapas, Mexico.
- HUGH-JONES, STEPHEN
1982 The Pleiades and Scorpius in Barasana Cosmology. In *Ethnoastronomy and Archaeoastronomy in the American Tropics*, edited by Anthony F. Aveni and Gary Urton, pp. 183-201. Annals of the New York Academy of Sciences, Vol. 385. New York.
- JAKEMAN, M. WELLS
1948 *The Origins and History of the Mayas*. Research Publishing Company, Los Angeles.
- JOHNSON, IRMGARD WEITLANER
1954 Chiptic Cave Textiles from Chiapas, Mexico. *Journal de la Société des Américanistes* 43:137-147.
- 1971 Basketry and Textiles. In *Handbook of Middle American Indians*, Vol. 10, edited by Gordon F. Ekholm and Ignacio Bernal, pp. 297-321. General editor, Robert Wauchope. University of Texas Press, Austin.
- JOHNSON, SAMUEL
1756 *A Dictionary of the English Language; in Which Words Are Deduced from Their Originals; and Illustrated in Their Different Significations, by Examples from the Best Writers*, Vol. 2. London.
- JOHNSTON, KEVIN
1981 A Commentary on the Hieroglyphic Inscriptions of Dos Pilas, Petexbatun, Guatemala. Unpublished manuscript, University of Texas, Austin.
- JONES, CHRISTOPHER
1977 Inauguration Dates of Three Late Classic Rulers of Tikal, Guatemala. *American Antiquity* 42:28-60.
- JONES, CHRISTOPHER, and LINTON SATTERTHWAITE
1982 *The Monuments and Inscriptions of Tikal: The Carved Monuments*. Tikal Report No. 33A. University Museum Monograph 44. The University Museum, University of Pennsylvania, Philadelphia.
- JONES, CHRISTOPHER, and ROBERT J. SHARER
1980 Archaeological Investigations in the Site Core of Quirigua. *Expedition* 23(1):11-19.
- JORALEMON, PETER DAVID
1971 *A Study of Olmec Iconography*. Studies in Pre-Columbian Art and Archaeology 7. Dumbarton Oaks, Washington, D.C.
- 1974 Ritual Blood-Sacrifice Among the Ancient Maya: Part I. In *Primera Mesa Redonda de Palenque, Part II*, edited by Merle Greene Robertson, pp. 59-75. Robert Louis Stevenson School, Pebble Beach, California.
- JORDAN, DAVID STARR, and MARY CYNTHIA DICKERSON
1899 Notes on a Collection of Fishes from The Gulf of Mexico at Vera Cruz and Tampico. *Proceedings of the U.S. National Museum* 34:11-22.
- JOSSERAND, J. KATHRYN
1975 Archaeological and Linguistic Correlations for Mayan Prehistory. *Actas del XLI Congreso Internacional de Americanistas, México* 1:501-510.
- JOSSERAND, KATHRYN, LINDA SCHELE, and NICHOLAS HOPKINS
1985 Linguistic Data on Maya Inscriptions: The *Ti* Constructions. In *Fourth Palenque Round Table, 1980*, edited by Elizabeth P. Benson. Pre-Columbian Art Research Institute, San Francisco.
- JUSTESON, JOHN S.
1982 The Chronological Portion of a Late Preclassic Maya Stela and the Early Development of the Maya Eclipse

- Calendar. Unpublished manuscript.
- JUSTESON, JOHN S., and WILLIAM M. NORMAN
1983 A Reinterpretation of Some 'Auxiliary Verb' Constructions in Mayan Hieroglyphic Writing. Paper presented at the Fifth Palenque Round Table, Chiapas, Mexico.
- KAUFMAN, TERRENCE S.
1971 Materiales Lingüísticos para el Estudio de las Relaciones Internas y Externas de la Familia de Idiomas Mayas. In *Desarrollo Cultural de los Mayas*, edited by Evon Z. Vogt and Alberto Ruz L., pp. 81-136. Centro de Estudios Mayas, Universidad Nacional Autónoma de México, México.
- 1972 *El Proto-Tzeltal-Tzotzil: Fonología Comprada y Diccionario Reconstruido*. Centro de Estudios Mayas, Cuaderno 5. Universidad Nacional Autónoma de México, México.
- 1978 Meso-American Indian Languages. *Encyclopaedia Britannica* 11:956-963. Fifteenth edition.
- KAUFMAN, TERRENCE S., and WILLIAM NORMAN
n.d. An Outline of Proto-Cholan Phonology, Morphology, and Vocabulary. In *Phonetic Studies in Mayan Hieroglyphic Writing*, edited by Lyle Campbell and John S. Justeson, Institute for Mesoamerican Studies, State University of New York, Albany, in press.
- KELLEY, DAVID H.
1962 Glyphic Evidence for a Dynastic Sequence at Quirigua, Guatemala. *American Antiquity* 27:323-335.
- 1965 The Birth of the Gods at Palenque. *Estudios de Cultura Maya* 5:93-134.
- 1968 Kakupacal and the Itzas. *Estudios de Cultura Maya* 7:255-268.
- 1976 *Deciphering the Maya Script*. University of Texas Press, Austin.
- 1977 Maya Astronomical Tables and Inscriptions. In *Native American Astronomy*, edited by Anthony Aveni, pp. 57-73.
- 1980 Astronomical Identities of Mesoamerican Gods. In *Archaeoastronomy Supplement to the Journal for the History of Astronomy* 2:51-554.
- 1983 The Maya Calendar Correlation Problem. In *Civilization in the Ancient Americas: Essays in Honor of Gordon R. Willey*, edited by Richard M. Leventhal and Alan L. Kolata, pp. 157-208. University of New Mexico Press, Albuquerque, and Peabody Museum of Archaeology and Ethnology, Harvard University, Cambridge.
- KIDDER, ALFRED V.
1947 *The Artifacts of Uaxactun, Guatemala*. Carnegie Institution of Washington Publication 576. Washington, D.C.
- 1949 Certain Archaeological Specimens from Guatemala, I. *Notes on Middle American Archaeology and Ethnology* 4(92). Carnegie Institution of Washington, Division of Historical Research. Washington, D.C.
- KIDDER, ALFRED V., and CARLOS SAMAYOA CHINCHILLA
1959 *The Art of the Ancient Maya*. T. W. Crowell, New York.
- KIDDER, ALFRED V., JESSE D. JENNINGS, and EDWIN M. SHOOK
1946 *Excavations at Kaminaljuyu, Guatemala*. Carnegie Institution of Washington Publication 561. Washington, D.C.
- KING, ARDEN R.
1955 Archaeological Remains from the Cintalapa Region, Chiapas, Mexico. *Middle American Research Records* 2(4):70-99. Tulane University, New Orleans.
- KLEIN, CECELIA F.
1975 Post-Classic Mexican Death Imagery as a Sign of Cyclic Completion. In *Death and the Afterlife in Pre-Columbian America*, edited by Elizabeth P. Benson, pp. 69-85. Dumbarton Oaks, Washington, D.C.
- KNOROV, YURI V.
1952 Drevniaia Pis'mennost' Tsentral'noi Ameriki. *Sovetskaia Etnografiia* 3:100-118.
- 1955 Pis'mennost' Drevnikh Maia (Opyt Rasshifrovki). *Sovetskaia Etnografiia* 1:94-125.
- 1967 Selected Chapters from *The Writing of the Maya Indians*, translated by Sophie Coe. *Russian Translation Series of the Peabody Museum of Archaeology and Ethnology* 4. Harvard University, Cambridge.
- KÖHLER, U.
1977 Čonbilal Č'ulelal. Grundformen Mesoamerikanischer Kosmologie und Religion in einem Gebetstext auf Maya-Tzotzil. *Acta Humboldtiana, Series Geographico et Ethnographica* 5, Wiesbaden.
- KUBLER, GEORGE
1962 *The Art and Architecture of Ancient America; The Mexican, Maya, and Andean Peoples*. Penguin Books, Baltimore.
- 1967 *The Iconography of the Art of Teotihuacan*. Studies in Pre-Columbian Art and Archaeology 4. Dumbarton Oaks, Washington, D.C.
- 1969 *Studies in Classic Maya Iconography*. Memoirs of the Connecticut Academy of Arts and Sciences 18. New Haven.
- KURBUHN, KORNELIA
1980 *Die Sitze der Maya: Eine Ikonographische Untersuchung*. Tübingen.
- LABBÉ, ARMAND J.
1982 *Religion, Art and Iconography: Man and Cosmos in Prehispanic Mesoamerica*. Bowers Museum Foundation, Santa Ana, California.
- LA FARGE, OLIVER, II, and DOUGLAS BYERS
1931 *The Year Bearer's People*. Middle American Research Series Publication 3. Tulane University, New Orleans.
- LANDA, DIEGO DE
1982 *Relación de las Cosas de Yucatán*. Twelfth edition. Editorial Porrúa, Mexico City.
- LATHRAP, DONALD W.
1973 Gifts of the Cayman: Some Thoughts on the Subsistence Basis of Chavin. In *Variation in Anthropology, Essays in Honor of John C. McGregor*, edited by Donald W. Lathrap and Jody Douglas, pp. 91-105. Illinois Archaeological Survey, Urbana.
- LAUGHLIN, ROBERT M.
1975 *The Great Tzotzil Dictionary of San Lorenzo Zinacantan*. Smithsonian Institution Contributions to Anthropology 19. Washington, D.C.
- LECHUGA, RUTH D.
1982 *El Traje Indígena de México*. Panorama Editorial, Mexico.
- LEHMANN, WALTER (editor)
1922 *Festschrift Eduard Seler*. Strecker und Shroder, Stuttgart.

- LEIGH, HOWARD
1966 The Evolution of the Zapotec Glyph C. In *Ancient Oaxaca*, edited by J. Paddock, pp. 256-269. Stanford University Press, Palo Alto.
- LEMON, GEORGE
1783 *English Etymology; or, a Derivative Dictionary of the English Language: in Two Alphabets*. London.
- LEVENTHAL, RICHARD, and ALAN KOLATA (editors)
1983 *Civilization in the Ancient Americas: Essays in Honor of Gordon R. Willey*. University of New Mexico Press, Albuquerque, and Peabody Museum of Archaeology and Ethnology, Harvard University, Cambridge.
- LEYENDA DE LOS SOLES
1945 in Velasquez, Primo F.
- LINNAEUS, CAROLUS
1894 *Systema Naturae: Regnum Animale*. Tenth edition. Wilhelm Engelmann, Lipsius.
- LOTHROP, SAMUEL K.
1936 *Zacualpa: A Study of Ancient Quiche Artifacts*. Carnegie Institution of Washington Publication 472. Washington, D.C.
1952 *Metals from the Cenote of Sacrifice, Chichen Itza, Yucatan*. Memoirs of the Peabody Museum of Archaeology and Ethnology 10(2). Harvard University, Cambridge.
- LOUNSBURY, FLOYD G.
1973 On the Derivation and Reading of the 'Ben-Ich' Prefix. In *Mesoamerican Writing Systems*, edited by Elizabeth P. Benson, pp. 99-143. Dumbarton Oaks, Washington, D.C.
1974a Pacal. In *Primera Mesa Redonda de Palenque, Part I*, edited by Merle Greene Robertson, p. ii. Robert Louis Stevenson School, Pebble Beach.
1974b The Inscription of the Sarcophagus Lid at Palenque. In *Primera Mesa Redonda de Palenque, Part II*, edited by Merle Greene Robertson, pp. 5-19. Robert Louis Stevenson School, Pebble Beach, California.
1976 A Rationale for the Initial Date of the Temple of the Cross at Palenque. In *The Art, Iconography & Dynastic History of Palenque, Part III*, edited by Merle Greene Robertson, pp. 211-224. Robert Louis Stevenson School, Pebble Beach, California.
1978 Maya Numeration, Computation, and Calendrical Astronomy. *Dictionary of Scientific Biography* 15:759-818.
1982 Astronomical Knowledge and Its Uses at Bonampak, Mexico. In *Archaeoastronomy in the New World: American Primitive Astronomy*, edited by Anthony F. Aveni, pp. 143-168. Cambridge University Press, Cambridge.
1985 The Identities of the Mythological Figures in the 'Cross Group' Inscriptions of Palenque. In *Fourth Palenque Round Table, 1980*, edited by Elizabeth P. Benson. Pre-Columbian Art Research Institute, San Francisco.
- LOWE, JOHN W. G.
1982 On Mathematical Models of the Classic Maya Collapse: The Class Conflict Hypothesis Reexamined. *American Antiquity* 47:643-652.
- LUCKERT, KARL W.
1976 *Olmec Religion: A Key to Middle America and Beyond*. University of Oklahoma Press, Norman.
- MACLEOD, BARBARA
1979 Cholan and Yucatecan Verb Morphology and Glyphic Verbal Affixes in the Inscriptions. Paper presented in part to the Fourth Taller Maya at Palenque, Chiapas, Mexico.
- MAHLER, JOY
1962 Textiles and Textile Impressions. In *Mayapan, Yucatan, Mexico*, by H. E. D. Pollock, Ralph L. Roys, Tatiana Proskouriakoff, and A. Ledyard Smith, pp. 403-405. Carnegie Institution of Washington Publication 619. Washington, D.C.
1965 Garments and Textiles of the Maya Lowlands. In *Handbook of Middle American Indians*, Vol. 3, edited by Gordon R. Willey, pp. 581-593. General editor, Robert Wauchop. University of Texas Press, Austin.
- MAKEMSON, MAUDE WORCESTER
1951 *The Book of the Jaguar Priest*. Henry Schuman, New York.
- MALER, TEOBERT
1901-03 *Researches in the Central Portion of the Usumatsintla Valley*. Memoirs of the Peabody Museum of American Archaeology and Ethnology 2. Harvard University, Cambridge.
- MALMSTROM, VINCENT H.
1973 Origin of the Mesoamerican 260-day Calendar. *Science* 181:939-941.
1978 A Reconstruction of the Chronology of Mesoamerican Calendrical Systems. *Journal for the History of Astronomy* 9:105-116. Science History Publications, Chalfont, Bucks, England.
- MARCUS, JOYCE
1973 Territorial Organization of the Lowland Classic Maya. *Science* 180:911-916.
1976a *Emblem and State in the Classic Maya Lowlands: An Epigraphic Approach to Territorial Organization*. Dumbarton Oaks, Washington, D.C.
1976b The Origins of Mesoamerican Writing. *Annual Review of Anthropology* 5:35-67.
- MARKHAM, CLEMENTS R. (editor)
1970 *The Hawkins's Voyages During the Reigns of Henry VIII, Queen Elizabeth, and James I.* B. Franklin, New York.
- MARTÍNEZ HERNÁNDEZ, JUAN
1926 Crónica de Maní. *Boletín de la Universidad Nacional del Sureste, Julio a Diciembre*: 160-169. Merida.
1927 *Crónicas Mayas*. Carlos R. Menéndez. Merida.
1929 *Diccionario de Motul*. Atribuido a Fray Antonio de Ciudad Real. Merida.
1940 *Crónicas Mayas*. Second edition. Carlos R. Menéndez. Merida.
- MASON, ALDEN, and G. B. GORDON
1925-28, 1943 *Examples of Maya Pottery in the Museum and Other Collections*. The University Museum, University of Pennsylvania, Philadelphia.
- MASTACHE DE ESCOBAR, ALBA GUADALUPE
1971 *Técnicas Prehispánicas del Tejido*. Serie Investigaciones 20. Instituto Nacional de Antropología e Historia, Mexico.
1974 Textiles from the Cueva de la Media Luna, Chiapas, Mexico. Preliminary Report, pp. 142-147. *Archaeological Textiles; Irene Emory Round Table on Museum Textiles, 1974 Proceedings*. The Textile Museum, Washington, D.C.
- MATHENY, RAY
1978 Northern Maya Lowland Water-Control Systems. In *Prehispanic Maya Agriculture*, edited by Peter D.

- Harrison and B. L. Turner, pp. 185-210. University of New Mexico Press, Albuquerque.
- MATHEWS, PETER
- 1977 The Inscription on the Back of Stela 8, Dos Pilas. Paper presented at Yale University.
- 1980 Notes on the Dynastic Sequence of Bonampak, Part I. In *Third Palenque Round Table, 1978, Part 2*, edited by Merle Greene Robertson, pp. 60-73. University of Texas Press, Austin.
- MATHEWS, PETER, and LINDA SCHELE
- 1974 Lords of Palenque – The Glyphic Evidence. In *Primera Mesa Redonda de Palenque, Part I*, edited by Merle Greene Robertson, pp. 63-75. Robert Louis Stevenson School, Pebble Beach, California.
- MATOS MOCTEZUMA, EDUARDO
- 1982 Symbolism of the Templo Mayor. In *Aztec Mexico: Discovery of Templo Mayor*, edited by Emily Umberger. Direccion General de Asuntos Culturales, S.R.E., Mexico.
- MATTHEWS, GEORGE TENNYSON
- 1959 *News and Rumor in Renaissance Europe: the Fugger Newsletters*. Capricorn Books, New York.
- MAUDSLAY, ALFRED P.
- 1889- *Biologia Centrali-Americana; Archaeology*. 5 vols.
- 1902 Edited by F. Ducane Godman and O. Salvin. R. H. Porter and Dulau and Company, London.
- 1896- *Biologia Centrali-Americana; Archaeology*, Vol. 4,
- 1902 Text. R. H. Porter and Dulau and Company, London.
- MAYER, KARL H.
- 1978 *Maya Monuments: Sculptures of Unknown Provenance in Europe*. Acoma Books, Ramona, California.
- 1980 *Maya Monuments: Sculptures of Unknown Provenance in the United States*. Acoma Books, Ramona, California.
- McARTHUR, H.
- 1979 The Role of the Ancestors in the Daily Life of the Aguacatec (Maya). Paper presented at the 18th International Congress of Americanists, Vancouver.
- MEDIZ BOLIO, ANTONIO
- 1930 *Libro de Chilam Balam de Chumayel*. San Jose, Costa Rica.
- 1952 *Libro de Chilam Balam de Chumayel*. Second edition. Universidad Nacional Autónoma de Mexico, México.
- MENDOZA, JUAN GONZALES DE
- 1970 *The History of the Great and Mighty Kingdom of China and the Situation Thereof*, Vol. 2, edited by George T. Staunton. B. Franklin, New York.
- MERRILL, ROBERT H.
- 1945 Maya Sun Calendar Dictum Disproved. *American Antiquity* 10:307-311.
- MICHELON, OSCAR (editor)
- 1976 *Diccionario de San Francisco*. Akademische Druck-u. Verlagsanstalt. Graz.
- MILBRATH, SUSAN
- 1981 Astronomical Imagery in the Serpent Sequence of the Madrid Codex. In *Archaeoastronomy in the Americas*, edited by Ray A. Williamson, pp. 263-284. Ballena Press Anthropological Papers 22, Los Altos, California.
- MILES, S. W.
- 1957 The Sixteenth-Century Pokom Maya. *Transactions of the American Philosophical Society* 47(4):735-781.
- MILLER, ARTHUR G.
- 1973 *The Mural Painting of Teotihuacan*. Dumbarton Oaks, Washington, D.C.
- 1974 The Iconography of the Painting in the Temple of the Diving God, Tulum, Quintana Roo: The Twisted Cords. In *Mesoamerican Archaeology: New Approaches*, edited by Norman Hammond, pp. 167-186. University of Texas Press, Austin.
- 1981 The Quintana Roo Mural Project. *National Geographic Society Research Reports* 13:443-457.
- 1982 *On the Edge of the Sea, Mural Painting at Tancah-Tulum, Quintana Roo, Mexico*. Dumbarton Oaks, Washington, D.C., Harvard University, Cambridge.
- MILLER JEFFREY
- 1974 Notes on a Stelae Pair Probably from Calakmul, Campeche, Mexico. In *Primera Mesa Redonda de Palenque, Part I*, edited by Merle Greene Robertson, pp. 149-161. Robert Louis Stevenson School, Pebble Beach, California.
- MILLER, MARY
- 1981 *The Murals of Bonampak*. Ph.D. dissertation, Department of Anthropology, Yale University, New Haven.
- MILLER, ROBERT RUSH
- 1966 Geographical Distribution of Central American Fresh Water Fishes. *Copeia* 4:773-802.
- MOLLOY, JOHN P., and WILLIAM L. RATHJE
- 1974 Sexploitation Among the Late Classic Maya. In *Mesoamerican Archaeology: New Approaches*, edited by Norman Hammond, pp. 431-444. University of Texas Press, Austin.
- MORAN, FRAY FRANCISCO
- 1935 *Arte y Diccionario en Lengua Choltil Quiere Decir Lengua de Milperos. Vocabulario en Lengua Choltil*. Facsimile of 1695 manuscript. The Maya Society, Publication 9, Baltimore.
- MORLEY, SYLVANUS G.
- 1935 *Guide Book to the Ruins of Quirigua*. Carnegie Institution of Washington, Supplemental Publication No. 16. Washington, D.C.
- 1937- *The Inscriptions of Peten*. 5 Vols. Carnegie Institution of Washington Publication 437. Washington, D.C.
- 38
- 1970 The Stela Platform at Uxmal, Yucatan, Mexico. *Middle American Research Institute Publication* 26:151-180. Tulane University, New Orleans.
- MORRIS, WALTER F., JR.
- 1979 *A Catalog of Textiles and Folkart of Chiapas, Mexico*. 2 Vols. San Cristobal de Las Casas, Chiapas.
- n.d. a Lagertero Textile Impressions. In *The Figurines of Lagertero*, by Susanna Ekholm and Walter F. Morris, Jr. *Papers of the New World Archaeological Foundation*. Brigham Young University, Provo, in preparation.
- n.d. b The Textile Impressions of the Soconusco Coast Project. A Report to Barbara Voorhies, Project Director, Department of Anthropology, University of California, Santa Barbara.
- n.d. c The Textiles of Pinuela Cave. In Report by John Clark and Walter F. Morris, Jr. *Papers of the New World Archaeological Foundation*. Brigham Young University, Provo, in preparation.
- 1985 Warped Glyphs: A Reading of Maya Textiles. In *Fourth Palenque Round Table, 1980*, edited by Elizabeth P. Benson. Pre-Columbian Art Research Institute, San Francisco.
- MOTOLINÍA, TORIBIO DE
- 1951 *Motolinía's History of the Indians of New Spain*.

- Francis Borgia Steck, translator and annotator. Academy of American Franciscan History, Washington, D.C.
- MUNDKUR, BALAJI
1976 The Cult of the Serpent in the Americas: Its Asian Background. *Current Anthropology* 17:429-455.
- MURRAY, JAMES A. H. (editor)
1926 *A New English Dictionary on Historical Principles*, Vol. 10, Part I. Clarendon Press, Oxford.
- MYERS, GEORGE S.
1952 Sharks and Sawfishes in the Amazon. *Copeia* 4:268-269.
- NAVARETTE, CARLOS, y LUIS LUJAN MUÑOZ
1963 Reconocimiento Arqueológico del Sitio de 'Dos Pilas', Petexbatun, Guatemala. *Cuadernos de Antropología* 2. Instituto de Investigaciones Historicas, Universidad de San Carlos, Guatemala.
- NEUENSWANDER, HELEN
1981 Vestiges of Early Maya Time Concepts in a Contemporary Maya (Cubulco Achi) Community. *Estudios de Cultura Maya* 13:125-163.
- NEUGEBAUER, PAUL VICTOR
1938 Tafeln zur Berechnung der jährlichen Auf-und Untergänge der Planeten. *Astronomische Nachrichten*, Bd. 264, Nr. 6331. Kiel.
- NICHOLSON, HENRY B.
1971 Religion in Pre-Hispanic Central Mexico. In *Handbook of Middle American Indians*, Vol. 10, edited by Gordon F. Ekholm and Ignacio Bernal, pp. 395-446. General editor, Robert Wauchope. University of Texas Press, Austin.
- NICHOLSON, IRENE
1959 *Firefly in the Night, A Study of Ancient Mexican Poetry and Symbolism*. Faber and Faber, London.
1967 *Mexicanische Mythologie*. Wiesbaden. Also published as *Mexican and Central American Mythology*, Hamlyn, London.
- NUTTALL, ZELIA
1928 Nouvelles Lumières sur les Civilisations Américaines et le Système du Calendrier. Proceedings of the 22nd International Congress of Americanists I:119-148. Rome.
- OAKES, MAUD
1951 *The Two Crosses of Todos Santos: Survivals of Mayan Religious Ritual*. Princeton University Press, Princeton.
- O'NEALE, LILA
1942 *Early Textiles from Chiapas, Mexico*. Middle American Research Records 1(1). Tulane University, New Orleans.
- ONIONS, C. T. (editor)
1966 *The Oxford Dictionary of English Etymology*. Clarendon Press, Oxford.
- OPPOLZER, THEODOR RITTER VON
1962 *Canon of Eclipses*. Translated by Owen Gingerich. Dover Publications, New York. Originally published in 1887 (*Canon der Finsternisse*) as Vol. 52 of the Memoirs of the Imperial Academy of Science, Vienna.
- PALMA y PALMA, EULOGIO
1901 *Los Mayas*, Justo Sierra. Motul.
- PALMER, A. SMYTHE
1890 *Folk-etymology*. Henry Holt, New York.
- PANG, HILDA DELGADO
1976 Similarities Between Certain Early Spanish, Contemporary Spanish Folk and Mesoamerican Textile Design Motifs. In *Ethnographic Textiles of the Western Hemisphere: Irene Emory Round Table on Museum Textiles, 1976 Proceedings*, pp. 388-404. The Textile Museum, Washington, D.C.
- PARSONS, LEE
1980 *Pre-Columbian Art: The Morton D. May and The St. Louis Art Museum Collections*. Harper and Row, New York.
- PARTRIDGE, ERIC
1983 *Origins: a Short Etymological Dictionary of Modern English*. Greenwich House, New York.
- PASZTORY, ESTHER
1974 *The Iconography of the Teotihuacan Tlaloc*. Studies in Pre-Columbian Art and Archaeology 15. Dumbarton Oaks, Washington, D.C.
- PENDERGAST, DAVID M.
1981 Lamanai, Belize: Summary of Excavation Results, 1974-80. *Journal of Field Archaeology* 8(1):29-53.
1982 *Excavations at Altun Ha, Belize, 1964-70, Vol. 2*. Royal Ontario Museum, Toronto.
- PETERSON, KATHERINE K.
1979 Observations on the Ik Windows at Palenque. Unpublished manuscript. Department of Anthropology, University of California, Berkeley.
- PIÑA CHAN, ROMÁN
1970 The Archaeological Section. In *The Mexican National Museum of Anthropology*, by Ignacio Bernal, Román Piña Chan, and Fernando Cámara Barbachano, pp. 14-173 (revised edition). Thames and Hudson, London.
- PLOG, STEVEN
1980 *Stylistic Variation in Prehistoric Ceramics: Design Analysis in the American Southwest*. Cambridge University Press, New York.
- POHL, MARY
1981 Ritual Continuity and Transformation in Mesoamerica; Reconstructing the Ancient Cuch Ritual. *American Antiquity* 46:513-529.
- POHL, MARY, and JOHN POHL
1983 Ancient Maya Cave Rituals. *Archaeology* 36(3):28-32.
- PO'OT YAH, ELEUTERIO, and VICTORIA BRICKER
1981 Yucatec Maya Verbs (Hocaba Dialect). Grammatical Introduction by Victoria Bricker. *Latin American Studies Curriculum Aids*. Tulane University, New Orleans.
- PROSKOURIAKOFF, TATIANA
1950 *A Study of Classic Maya Sculpture*. Carnegie Institution of Washington Publication 593. Washington, D.C.
1960 Historical Implications of a Pattern of Dates at Piedras Negras, Guatemala. *American Antiquity* 25:454-475.
1961a Portraits of Women in Maya Art. In *Essays in Pre-Columbian Art and Archaeology*, by Samuel K. Lothrop, and others, pp. 81-99. Harvard University Press, Cambridge.
1961b The Lords of the Maya Realm. *Expedition* 4(1):14-21.
1962 Civic and Religious Structures of Mayapan. In *Mayapan, Yucatan, Mexico*, edited by H. E. D. Pollock, Ralph L. Roys, Tatiana Proskouriakoff, and A.

- Ledyard Smith, pp. 86-140. Carnegie Institution of Washington Publication 619. Washington, D.C.
- 1963 Historical Data in the Inscriptions of Yaxchilan, Part I. *Estudios de Cultura Maya* 3:149-167.
- 1964 Historical Data in the Inscriptions of Yaxchilan, Part II. *Estudios de Cultura Maya* 4:177-201.
- 1974 *Jades from the Cenote of Sacrifice*. Memoirs of the Peabody Museum of Archaeology and Ethnology 10(1). Harvard University Press, Cambridge.
- PULESTON, DENNIS E.
- 1974 Intersite Areas in the Vicinity of Tikal and Uaxactun. In *Mesoamerican Archaeology: New Approaches*, edited by Norman Hammond, pp. 303-311. University of Texas Press, Austin.
- 1976 The People of the Cayman/Crocodile: Riparian Agriculture and the Origins of Aquatic Motifs in Ancient Maya Iconography. In *Aspects of Ancient Maya Civilization*, edited by Francois de Montequin, pp. 1-26. Hamline University, St. Paul.
- 1977 The Art and Archaeology of Hydraulic Agriculture in the Maya Lowlands. In *Social Process in Maya Prehistory*, edited by Norman Hammond, pp. 449-467. Academic Press, London.
- QUIRARTE, JACINTO
- 1976 The Relationship of Izapan-Style Art to Olmec and Maya Art: A Review. In *Origins of Religious Art and Iconography in Preclassic Mesoamerica*, edited by Henry B. Nicholson, pp. 73-86. UCLA Latin American Center Publications, Los Angeles.
- 1979 The Representation of Underworld Processions in Maya Vase Painting: An Iconographic Study. In *Maya Archaeology and Ethnohistory*, edited by Norman Hammond and Gordon R. Willey, pp. 116-148. University of Texas Press, Austin.
- R., C.
- 1569 *The True Discription of This Marueilous Straunge Fishe, Whiche Was Taken on Thursday Wassennight, the XVI Day of June, This Present Month, in the Yeare of Our Lord God MDLXIX*. London.
- RANDS, ROBERT L.
- 1953 The Water Lily in Maya Art: A Complex of Alleged Asiatic Origin. *Bureau of American Ethnology Bulletin* 151:75-153. Washington, D.C.
- 1955 Some Manifestations of Water in Mesoamerican Art. *Bureau of American Ethnology Bulletin* 157:265-393. Washington, D.C.
- RECINOS, ADRIÁN, DELIA GOETZ, and SYLVANUS G. MORLEY
- 1950 *Popul Vuh: The Sacred Book of the Ancient Quiché Maya*. University of Oklahoma Press, Norman.
- REDFIELD, ROBERT, and ALFONSO VILLA R.
- 1934 *Chan Kom, A Maya Village*. Carnegie Institution of Washington Publication 448. Washington, D.C.
- REENTS, DORIE J., and JOHN R. SOSA
- 1980 Glyphic Evidence for Classic Maya Militarism. *Belizean Studies* 8(3):2-11.
- REIFLER, ERWIN
- n.d. A Comparative History of Metrology. Compiled by H. J. Griffin. Unpublished manuscript.
- RICE, DON S.
- 1982 The Peten Postclassic: A Settlement Perspective. Paper prepared for the School of American Research Advanced Seminar publication, *Late Lowland Maya Civilization: Classic to Postclassic*, edited by Jeremy A. Sabloff and E. W. Andrews V. University of New Mexico Press, Albuquerque, in press.
- RICE, PRUDENCE M.
- 1979 The Ceramic and Non-ceramic Artifacts of Yaxha-Sacnab, El Peten, Guatemala. Part I – The Ceramics: Section B, Postclassic Pottery from Topoxte. *Ceramica de Cultura Maya* 11:1-85.
- 1982 The Peten Postclassic: Perspectives from the Central Peten Lakes. Paper prepared for the School of American Research Advanced Seminar publication, *Late Lowland Maya Civilization: Classic to Postclassic*, edited by Jeremy A. Sabloff and E. W. Andrews V. University of New Mexico Press, Albuquerque, in press.
- 1983a Serpents and Styles in Peten Postclassic Pottery. *American Anthropologist* 85:866-880.
- 1983b Reptiles and Rulership in the Peten Postclassic. Paper presented at the Annual Meeting of the American Anthropological Association, Chicago.
- 1984 The Ceramics of Negroman-Tipu: A Preliminary Overview. Paper presented at the Annual Meeting of the Northwestern Anthropological Association, Hartford, Connecticut.
- RIESE, FRAUKE JOHANNA
- 1981 Indianische Landrechte in Yukatan um die Mitte des 16. Jahrhunderts. *Beiträge zur Mittelamerikanischen Völkerkunde* 16. Hamburgisches Museum für Völkerkunde, Hamburg.
- RINGLE, WILLIAM, and THOMAS SMITH-STARK
- n.d. a A Computer Concordance to the Inscriptions of Palenque. Manuscript, in preparation. Tulane University, New Orleans.
- n.d. b Computational Approaches to Decipherment. Manuscript, in preparation. Tulane University, New Orleans.
- ROBERTSON, DONALD
- 1970 The Tulum Murals: The International Style of the Late Postclassic. *Verhandlungen des 38th Internationalen Amerikanistenkongresses* 2:77-88.
- ROBERTSON, MERLE GREENE
- see Greene Robertson, Merle.
- ROBICSEK, FRANCIS
- 1975 *A Study in Maya Art and History: The Mat Symbol*. The Museum of the American Indian, Heye Foundation, New York.
- 1978 *The Smoking Gods: Tobacco in Maya Art, History, and Religion*. University of Oklahoma Press, Norman.
- ROBICSEK, FRANCIS, and DONALD M. HALES
- 1981 *The Maya Book of the Dead. The Ceramic Codex*. University of Virginia Art Museum, Charlottesville.
- 1982 *Maya Ceramic Vases from the Late Classic Period: The November Collection of Maya Ceramics*. University of Virginia Art Museum, Charlottesville.
- ROYS, LAWRENCE
- 1934 The Engineering Knowledge of the Maya. *Contributions to American Archaeology* 6. Carnegie Institution of Washington Publication 436. Washington, D.C.
- ROYS, RALPH L.
- 1931 *The Ethno-Botany of the Maya*. Middle American Research Series Publication 2. Tulane University, New Orleans.
- 1933 *The Book of Chilam Balam of Chumayel*. Carnegie Institution of Washington Publication 438.

- Washington, D.C.
- 1949 The Prophecies for the Maya Tuns or Years in the Books of Chilam Balam of Tizimin and Mani. In *Carnegie Institution of Washington Publication* 585:157-186. Washington, D.C.
- 1965 *Ritual of the Bacabs*. University of Oklahoma Press, Norman.
- 1967 *The Book of Chilam Balam of Chumayel*. Second edition. University of Oklahoma Press, Norman.
- RUPPERT, KARL, and JOHN H. DENISON
- 1943 *Archaeological Reconnaissance in Campeche, Quintana Roo, and Peten*. Carnegie Institution of Washington Publication 543. Washington, D.C.
- RUZ LHUILLER, ALBERTO
- 1958 Exploraciones Arqueologicas en Palenque 1955. *Anales del Instituto Nacional de Antropologia e Historia* 10(39):185-240. Mexico City. Mexico.
- SABLOFF, JEREMY A.
- 1973 Continuity and Disruption During Terminal Late Classic Times at Seibal: Ceramic and Other Evidence. In *The Classic Maya Collapse*, edited by T.P. Culbert, pp. 107-131. University of New Mexico Press, Albuquerque.
- 1975 Ceramics. *Excavations at Seibal, Department of Peten, Guatemala*. Memoirs of the Peabody Museum of Archaeology and Ethnology 13(2). Harvard University, Cambridge.
- SABLOFF, JEREMY A., and GORDON R. WILLEY
- 1967 The Collapse of Maya Civilization in the Southern Lowlands: A Consideration of History and Process. *Southwestern Journal of Anthropology* 23(4):311-336.
- SABLOFF, JEREMY A., RONALD L. BISHOP, GARMAN HARBOTTLE, ROBERT L. RANDS, and EDWARD V. SAYRE
- 1982 Analysis of Fine Paste Ceramics. *Excavations at Seibal, Guatemala*, edited by Jeremy A. Sabloff. Memoirs of the Peabody Museum of Archaeology and Ethnology 15(2). Harvard University, Cambridge.
- SAHAGÚN, FRAY BERNARDINO DE
- 1950-69 *Florentine Codex. General History of the Things of New Spain*. Edited by Arthur J. O. Anderson and Charles E. Dibble. Twelve volumes. The School of American Research and the University of Utah. Santa Fe.
- SAHLINS, MARSHALL
- 1976 Colors and Cultures. *Semiotica* 16:1-22.
- SANDERS, WILLIAM
- 1960 Prehistoric Ceramics and Settlement Pattern in Quintana Roo, Mexico. In *Carnegie Institution of Washington Publication* 606:155-264.
- SARTOR, MARIO
- 1981 La città e la conquista: Mappe e documenti sulla trasformazione urbana e territoriale nell' America centrale del 500. Casa del Libro Editrice, Rome.
- SATTERTHWAITE, LINTON
- 1964 Dates in a New Maya Hieroglyphic Text as Katun-Baktun Anniversaries. *Estudios de Cultura Maya* 4:203-222.
- 1965 Calendrics of the Maya Lowlands. In *Handbook of Middle American Indians*, vol. 3, edited by Gordon R. Willey, pp. 603-631. General editor, Robert Wauchope. University of Texas Press, Austin.
- SCHÄVELZON, DANIEL
- 1980 Temples, Caves, or Monsters? Notes on Zoomorphic Façades in Pre-Hispanic Architecture. In *Third Palenque Round Table, 1978, Part 2*, edited by Merle Greene Robertson, pp. 151-162. University of Texas Press, Austin.
- SCHELE, LINDA
- 1974 The Attribution of Monumental Architecture to Specific Rulers at Palenque. Paper presented at the 41st International Congress of Americanists, Mexico City.
- 1976 Accession Iconography of Chan-Bahlum in the Group of the Cross at Palenque. In *The Art, Iconography & Dynastic History of Palenque, Part III* (Segunda Mesa Redonda de Palenque), edited by Merle Greene Robertson, pp. 9-34. Robert Louis Stevenson School, Pebble Beach.
- 1978 *Notebook for the Maya Hieroglyphic Writing Workshop at Texas*. Institute of Latin American Studies, The University of Texas, Austin.
- 1979a Genealogical Documentation on the Tri-figure Panels at Palenque. In *Tercera Mesa Redonda de Palenque, 1978, Part 1*, edited by Merle Greene Robertson and Donnan Call Jeffers, pp. 41-70. Pre-Columbian Art Research, Monterey, California.
- 1979b The Puleston Hypothesis: The Water Lily Complex in Classic Maya Art and Writing. Paper presented at Princeton University.
- 1982 *Maya Glyphs: The Verbs*. University of Texas Press, Austin.
- 1984 Human Sacrifice Among the Classic Maya. In *Ritual Human Sacrifice in Mesoamerica*, edited by Elizabeth H. Boone, pp. 7-48. Dumbarton Oaks, Washington, D.C.
- SCHELE, LINDA, and JEFFREY H. MILLER
- 1983 *The Mirror, the Rabbit, and the Bundle: "Accession" Expressions from the Classic Maya Inscriptions*. Studies in Pre-Columbian Art and Archaeology 25. Dumbarton Oaks, Washington, D.C.
- SCHELE, LINDA, and PETER MATHEWS
- 1979 *The Bodega of Palenque, Chiapas, Mexico*. Dumbarton Oaks, Washington, D.C.
- SCHELE, LINDA, PETER MATHEWS, and FLOYD G. LOUNSBURY
- 1977 Parentage Statements in Classic Maya Inscriptions. Paper presented at the International Conference on Maya Iconography and Hieroglyphic Writing, Guatemala City.
- SCHELLHAS, PAUL
- 1897 *Die Göttergestalten der Mayahandschriften: Ein mythologisches Kulturbild aus dem alten Amerika*. Verlag von Richard Bertling, Dresden.
- 1904a Comparative Studies in the Field of Maya Antiquities. *Bureau of American Ethnology Bulletin* 28:591-622. Washington, D.C.
- 1904b *Representation of Deities of the Maya Manuscripts*. Papers of the Peabody Museum of American Archaeology and Ethnology 4(1). Harvard University, Cambridge.
- SCHOLES, FRANCE V., and RALPH L. ROYS
- 1968 *The Maya Chontal Indians of Acalan-Tixchel: a Contribution to the History and Ethnography of the Yucatan Peninsula*. University of Oklahoma Press, Norman.
- SCHRAM, ROBERT

- 1908 *Kalendariographische und Chronologische Tafeln*. J. C. Hinrichs, Leipzig.
- SCHULTZE JENA, LEONARD
- 1954 La vida y las creencias de los indigenas Quiches de Guatemala. *Biblioteca Cultura Popular* 49. Ministerio de Educacion Publica, Guatemala.
- SCHWARTZ, FRANK J.
- 1960 Additional Comments on Adult Bull Sharks *Carcharhinus leucas* (Müller and Henle), from Chesapeake Bay, Maryland. *Chesapeake Science* 1:68-71.
- SEJOURNE, LAURETTE
- 1970 *Arqueología del Valle de Mexico, I. Culhuacan*. Instituto Nacional de Antropología e Historia, Mexico.
- SELER, EDUARD
- 1887 Ueber die Namen der in der Dresdener Handschrift abgebildeten Maya Gotter. *Zeitschrift für Ethnologie* 19:224-231; 1:367-389.
- 1902-23 *Gesammelte Abhandlungen zur Amerikanischen Sprach- und Alterthumskunde*. 5 vols. (1908: *Die Ruinen von Chichen Itza in Yucatan*, Vol. 5.) A. Asher and Co., Berlin.
- 1963 *Commentarios al Codice Borgia*. Fondo de Cultura Economica, Mexico.
- 1976 *Observations and Studies in the Ruins of Palenque, 1915*, translated by Gisela Morgner and edited by Thomas Bartman and George Kubler. Robert Louis Stevenson School, Pebble Beach.
- SEVERIN, GREGORY M.
- 1981 *The Paris Codex: Decoding an Astronomical Ephemeris*. Transactions of the American Philosophical Society 71(5). Philadelphia.
- SHARER, ROBERT J.
- 1985 Terminal Classic Events in the Southeastern Lowlands: A View from Quirigua. In *The Lowland Maya Postclassic: Questions and Answers*, edited by Arlen F. Chase and Prudence M. Rice. University of Texas Press, Austin.
- SHIPLEY, JOSEPH T.
- 1945 *Dictionary of Word Origins*. Philosophical Library, New York.
- SHOOK, EDWIN M.
- 1965 Archaeological Survey of the Pacific Coast of Guatemala. In *Handbook of Middle American Indians*, Vol. 2, edited by Gordon R. Willey, pp. 180-194. General editor, Robert Wauchope. University of Texas Press, Austin.
- SIDRYS, RAYMOND
- 1976 *Mesoamerica: An Archaeological Analysis of Low-Energy Civilization*. Ph.D. dissertation, University of California, Los Angeles. University Microfilms International, Ann Arbor.
- SILVEIRA BUENO, FRANCISCO DA (editor)
- 1967 *Grande Dicionario Etimológico-Prosódico de Lingua Portuguesa*, Vol. 8. Sao Paulo.
- SMAILUS, ORTWIN
- 1975 *El Maya-Chontal de Acalán: Analisis Lingüístico de un Documento de los Años 1610-12*. Centro de Estudios Mayas Cuaderno 9. Universidad Nacional Autónoma de Mexico, Mexico.
- SMITH, AUGUSTUS LEDYARD
- 1950 *Uaxactun, Guatemala; Excavations of 1931-37*. Carnegie Institution of Washington Publication 588. Washington, D.C.
- 1982 Major Architecture and Caches. *Excavations at Seibal*. Memoirs of the Peabody Museum of Archaeology and Ethnology 15(1). Harvard University, Cambridge.
- SMITH, AUGUSTUS LEDYARD, and A. V. KIDDER
- 1951 *Excavations at Nebaj, Guatemala*. Carnegie Institution of Washington Publication 594. Washington D.C.
- SMITH, AUGUSTUS LEDYARD, and KARL RUPPERT
- 1956 Excavations in Housemounds at Mayapan: IV. *Carnegie Institution of Washington, Department of Archaeology, Current Reports* 36:471-527. Washington, D.C.
- SMITH, HOMES W.
- 1936 The Retention and Physiological Role of Urea in the Elasmobranchii. *Biological Reviews* 11:49-82.
- SMITH, ROBERT E.
- 1952 *Pottery from Chipoc, Alta Verapaz, Guatemala*. Carnegie Institution of Washington Publication 596. Washington, D.C.
- 1955 *Ceramic Sequence at Uaxactun, Guatemala*. 2 vols. Middle American Research Institute Publication 20. Tulane University, New Orleans.
- 1957 Tohil Plumbate and Classic Maya Polychrome Vessels in the Marquez Collection. *Notes on Middle American Archaeology and Ethnology* 124. Carnegie Institution of Washington, Washington, D.C.
- 1971 *The Pottery of Mayapan*. Papers of the Peabody Museum of Archaeology and Ethnology 66. Harvard University, Cambridge.
- SMITH, ROBERT E., and JAMES GIFFORD
- 1965 Pottery of the Maya Lowlands. In *Handbook of Middle American Indians*, Vol. 2, Part 1, edited by Gordon R. Willey, pp. 498-534. General editor, Robert Wauchope. University of Texas Press, Austin.
- SOLÍS ALCALÁ, ERMILO
- 1949 *Códice Pérez*. Oriente, Merida.
- SOTHEBY PARK BERNET, INC.
- 1982 *Catalogue, Sale 4889Y, Fine Pre-Columbian Art*. New York.
- SPINDEN, HERBERT JOSEPH
- 1913 *A Study of Maya Art: Its Subject Matter and Historical Development*. Memoirs of the Peabody Museum of American Archaeology and Ethnology 6. Harvard University, Cambridge. Reprinted in 1975 by Dover Publications, New York.
- 1930 Maya Dates and What They Reveal. *Science Bulletin* 4(1). Museum of the Brooklyn Institute of Arts and Sciences, Brooklyn.
- SPORES, RONALD
- 1974 Marital Alliance in the Political Integration of Mixtec Kingdoms. *American Anthropologist* 76:279-311.
- SQUIER, EPHRAIM G.
- 1852 *Nicaragua: Its People, Scenery, Monuments, and the Proposed Interoceanic Canal*, Vol. 1. Appleton, New York.
- STAHLMAN, WILLIAM D., and OWEN GINGERICH
- 1963 *Solar and Planetary Longitudes for Years - 2500 to + 2000 by Ten-Day Intervals*. University of Wisconsin Press, Madison.
- STEGGERDA, MORRIS
- 1941 *Maya Indians of Yucatan*. Carnegie Institution of Washington Publication 531. Washington, D.C.
- STEPHENS, JOHN LLOYD

- 1841 *Incidents of Travel in Central America, Chiapas and Yucatan*. 2 vols. Harper and Brothers, New York. Reprinted in 1969 by Dover Publications, New York.
- 1843 *Incidents of Travel in Yucatan*. 2 vols. Harper and Brothers, New York. Reprinted in 1961 by Dover Publications, New York.
- STIRLING, MATTHEW W.
1943 *Stone Monuments of Southern Mexico*. Bureau of American Ethnology Bulletin 138. Smithsonian Institution, Washington, D.C.
- STONE, ANDREA
1983 *The Zoomorphs of Quirigua, Guatemala* Ph.D. dissertation, Department of Art History, The University of Texas, Austin.
- STONE, ANDREA, DORIE REENTS, and ROBERT COFFMAN
1985 Genealogical Documentation of the Middle Classic Dynasty of Caracol, El Cayo, Belize. In *Fourth Palenque Round Table, 1980*, edited by Elizabeth P. Benson. Pre-Columbian Art Research Institute, San Francisco.
- STUART, DAVID
1982 The Iconography of Blood in the Symbolism of Maya Rulership. Paper presented at the Princeton Conference on the Beginnings of Maya Iconography.
- TATE, CAROLYN
1980 *The Maya Cauac Monster: Visual Evidence for Ancestor Veneration Among the Ancient Maya*. Masters' thesis, Department of Art History, The University of Texas, Austin.
- 1982 The Maya Cauac Monster's Formal Development and Dynastic Contexts. In *Pre-Columbian Art History: Selected Readings*, edited by Alana Cordy-Collins, pp. 33-54. Peek Publications, Palo Alto.
- TAUBE, KARL
1981 Classic Maya Scaffold Sacrifice: A Ceremony of Field and State. Manuscript.
- TEDLOCK, BARBARA
1982 *Time and the Highland Maya*. University of New Mexico Press, Albuquerque.
- n.d. Earth Rites and Moon Cycles: Mayan Synodic and Sidereal Lunar Reckoning. In *Ethnoastronomy: Indigenous Astronomical and Cosmological Traditions in the World*, edited by John B. Carlson and Von Del Chamberlain. Smithsonian Institution Press, in preparation.
- TESOROS MAYAS DE GUATEMALA
1974 Exposición Museo Nacional de Arqueología y Etnología de Guatemala. Guatemala City.
- THOMAS, CYRUS
1882 A Study of the Manuscript Troano. *U.S. Department of the Interior: Contributions to North American Ethnology* 5:1-237. Washington, D.C.
- 1888 Aids to the Study of the Maya Codices. *Sixth Annual Report of the Bureau of American Ethnology (1884-85)*, pp. 253-371. Washington, D.C.
- THOMERSON, JAMIE E., THOMAS B. THORSON, and RONALD L. HEMPEL
1977 The Bull Shark, *Carcharhinus leucas*, from the Upper Mississippi River Near Alton, Illinois. *Copeia* 1:166-168.
- THOMPSON, J. ERIC S.
1934 *Sky Bearers, Colors and Directions in Maya and Mexican Religion*. Carnegie Institution of Washington Publication 436, Contribution 10. Washington, D.C.
- 1935 *Maya Chronology: The Correlation Question*. Carnegie Institution of Washington Publication 456, Contribution 14. Washington, D.C.
- 1937 *A New Method of Deciphering Yucatecan Dates With Special Reference to Chichen Itza*. Carnegie Institution of Washington Publication 483, Contribution 22. Washington, D.C.
- 1938 Sixteenth and Seventeenth Century Reports on the Chol Mayas. *American Anthropologist* 40(4):584-604.
- 1944 The Fish as a Maya Symbol for Counting and Further Discussion of Directional Glyphs. *Theoretical Approaches to Problems* 2. Carnegie Institution of Washington, Washington, D.C.
- 1950 *Maya Hieroglyphic Writing: An Introduction*. Carnegie Institution of Washington Publication 589. Washington, D.C. Second and third editions published in 1960 and 1971 by the University of Oklahoma Press, Norman.
- 1954 A Presumed Residence of the Nobility of Mayapan. *Carnegie Institution of Washington, Department of Archaeology, Current Reports* 19:71-87. Washington, D.C.
- 1957 Deities Portrayed on Censers at Mayapan. *Carnegie Institution of Washington, Department of Archaeology, Current Reports* 40.
- 1962 *A Catalog of Maya Hieroglyphs*. University of Oklahoma Press, Norman.
- 1965 Maya Hieroglyphic Writing. In *Handbook of Middle American Indians*, Vol. 3, edited by Gordon R. Willey, pp. 632-658. General editor, Robert Wauchope. University of Texas Press, Austin.
- 1970a *Maya History and Religion*. University of Oklahoma Press, Norman.
- 1970b The Bacabs: Their Portraits and Glyphs. In *Monographs and Papers in Maya Archaeology*, edited by William R. Bullard, Jr., pp. 469-485. Papers of the Peabody Museum of Archaeology and Ethnology 61. Harvard University Press, Cambridge.
- 1972 *A Commentary on the Dresden Codex*. Memoirs of the American Philosophical Society 93. Philadelphia.
- THOMPSON, STITH
1955- *Motif Index of Folk Literature*. Indiana University 58, 1966 Press, Bloomington.
- THORSON, THOMAS B.
1972 The Status of the Bull Shark, *Carcharhinus leucas*, in the Amazon River. *Copeia* 3:601-605.
- 1976 The Status of the Nicaragua Shark: an Updated Appraisal. In *Investigations of the Ichthyofauna of Nicaraguan Lakes*, edited by Thomas B. Thorson, pp. 561-574. School of Life Sciences, University of Nebraska, Lincoln.
- THORSON, THOMAS B., DONALD E. WATSON, and C. MICHAEL COWAN
1966 The Status of the Fresh Water Shark of Lake Nicaragua. *Copeia* 3:385-402.
- TOWNSEND, RICHARD F.
1982 Malinalco and the Lords of Tenochtitlan. In *The Art and Iconography of Late Post-Classic Central Mexico*, edited by Elizabeth H. Boone, pp. 111-140. Dumbarton Oaks, Washington, D.C.
- TOZZER, ALFRED M.

- 1907 *A Comparative Study of the Mayas and Lacandones*. New York.
- 1941 *Landa's Relación de las Cosa de Yucatan*. Papers of the Peabody Museum of American Archaeology and Ethnology 18. Harvard University Press, Cambridge.
- 1957 *Chichen Itza and Its Cenote of Sacrifice: A Comparative Study of Contemporaneous Maya and Toltec*. Memoirs of the Peabody Museum of Archaeology and Ethnology 11, 12. Harvard University, Cambridge.
- TREATY OF MANI
See *Crónica de Maní*
- TRIK, AUBREY S.
1939 *Temple XXII at Copan*. Carnegie Institution of Washington Publication 509, Contribution 27. Washington, D.C.
- 1963 The Splendid Tomb of Temple I at Tikal, Guatemala. *Expedition* 6(1):2-18.
- TUCKERMAN, BRYANT
1964 *Planetary, Lunar, and Solar Positions, A.D. 2 to A.D. 1649 at Five-Day and Ten-Day Intervals*. Memoirs of the American Philosophical Society 59. Philadelphia.
- TURNER, B. L., II
1974 Prehistoric Intensive Agriculture in the Maya Lowlands. *Science* 185:118-124.
- 1979 Prehispanic Terracing in the Central Maya Lowlands: Problems of Agricultural Intensification. In *Maya Archaeology and Ethnohistory*, edited by Norman Hammond and Gordon R. Willey, pp. 103-115. University of Texas Press, Austin.
- UNWIN, RAYNER
1960 *The Defeat of John Hawkins: a Biography of His Third Slaving Voyage*. Macmillan, New York.
- VALENTINI, PHILIPP J. J.
1879 The Katunes of Maya history. *Proceedings of the American Antiquarian Society* 74:69-117. Worcester.
- VALLADARES, LEON A.
1957 *El Hombre y el Maize: Etnografía y Etnopsicología de Colotenango, Guatemala*. Guatemala City.
- VAN SWIETEN, G.
1976 *Art de Mesoamerique/Meso-Amerikaanse Kunst*. Société Générale de Banque, Bruxelles.
- VELASQUEZ, PRIMO F. (editor and translator)
1945 *Códice Chimalpopoca* (including *Anales de Cuauhtitlan* and *Leyenda de los Soles*). Universidad Nacional Autónoma de México, México.
- VILLA, JAIME
1976 Ichthyology of the Lakes of Nicaragua: Historical Perspective. In *Investigations of the Ichthyofauna of Nicaraguan Lakes*, edited by Thomas B. Thorson, pp. 101-113. School of Life Sciences, University of Nebraska, Lincoln.
- VILLA ROJAS, ALFONSO
1969 Maya Lowlands: The Chontal, Chol, and Kekchi. In *Handbook of Middle American Indians*, Vol. 7, edited by Evon Z. Vogt, pp. 230-243. General editor, Robert Wauchope. University of Texas Press, Austin.
- VILLACORTA C., J. ANTONIO, and CARLOS A. VILLACORTA R.
1930 *Códices Mayas: Dresdensis, Pereseianus, Tro-Cortesianus*. Tipografía Nacional, Guatemala City. (Second edition: 1977).
- VINSON, G. L.
1960 Las Ruinas de Petexbatun. *Antropología e Historia de Guatemala* 12(2):3-9. Instituto de Antropología e Historia de Guatemala.
- VOGT, EVON Z.
1969 *Zinacantan: A Maya Community in the Highlands of Chiapas*. Belknap Press of Harvard University Press, Cambridge.
- 1976 *Tortillas for the Gods: A Symbolic Analysis of Zinacanco Rituals*. Harvard University Press, Cambridge.
- VON EUW, ERIC
see Euw, Eric von
- WAUCHOPE, ROBERT
1970 Protohistoric Pottery of the Guatemalan Highlands. In *Monographs and Papers in Maya Archaeology*, edited by William R. Bullard, Jr., pp. 89-244. Papers of the Peabody Museum of Archaeology and Ethnology 61, Harvard University, Cambridge.
- WEAVER, MURIEL PORTER
1972 *The Aztecs, Maya and Their Predecessors: Archaeology of Mesoamerica*. Seminar Press, New York.
- WEBSTER NOAH
1828 *An American Dictionary of the English Language: Exhibiting the Origin, Orthography, Pronunciation and Definitions of Words*, Vol. 2. Lippincott, Philadelphia.
- WHITNEY, WILLIAM DWIGHT (editor)
1903 *The Century Dictionary and Cyclopedia*, Vol. 8. Century Company, New York.
- WILKINS, JOHN
1668 *An Essay Towards a Real Character, and a Philosophical Language*. London.
- WILLEY, GORDON R., A. LEDYARD SMITH, GAIR TOURELLOT III, and IAN GRAHAM
1975 *Excavations at Seibal*. Memoirs of the Peabody Museum of Archaeology and Ethnology 13(1). Harvard University, Cambridge.
- WILLIAMSON, JAMES A.
1949 *Hawkins of Plymouth*. Adam and Charles Black, London.
- WILLSON, ROBERT W.
1924 *Astronomical Notes on the Maya Codices*. Papers of the Peabody Museum of Archaeology and Ethnology 6(3). Harvard University, Cambridge.
- WINNING, HASSO VON
1961 Teotihuacan Symbols: The Reptile's Eye Glyph. *Ethnos* 26(3):121-166.
- 1963 A Maya 'God N' Effigy Bowl. *Masterkey* 37(2).
- WISDOM, CHARLES
1940 *The Chorti Indians of Guatemala*. University of Chicago Press, Chicago.
- WOBST, H. M.
1977 Stylistic Behavior and Information Exchange. In *For the Director: Research Essays in Honor of James B. Griffin*, edited by Charles E. Cleland, pp. 317-342. Anthropological Papers 61, Museum of Anthropology, University of Michigan, Ann Arbor.
- WONDERLEY, ANTHONY W.
1981 *Late Postclassic Excavations at Naco, Honduras*. Latin American Studies Program Dissertation Series 86. Cornell University, Ithaca, New York.
- WOODBURY, RICHARD, and AUBREY S. TRIK
1953 *The Ruins of Zaculeu, Guatemala*. 2 vols. United Fruit Company, New York.
- WRIGHT, I. A. (editor)
1929 *Spanish Documents Concerning English Voyages to the Caribbean 1527-1568*. Hakluyt Society, London.