2 More Than Kin and King

Centralized Political Organization among the Late Classic Maya¹

by Arlen F. Chase and Diane Z. Chase

Some scholars have consistently underestimated the centralization of Maya political organization, the complexity of Maya economics, road systems, and agriculture, and the size and territorial extent of a Maya state. The application of Aidan Southall's (1956) concept of the "segmentary state" to the Classic period (A.D. 250-950) Maya, currently in vogue, is merely the most recent denigration of ancient Mesoamerican accomplishments. There are any number of problems with this model. Perhaps the most basic criticism of the segmentary-state concept is that it distracts attention from process and variability. Fundamental to the segmentary state are segmentary lineages, the reality of which also has been called into question. An even broader critique of this model questions the utility of viewing segmentation as a key societal characteristic given the universal existence of segmentation as a structural principle in human societies (cf. Sahlins 1961). Finally, should one accept the model itself, the contradictory data on scale, hierarchy, and integration (see Blanton et al. 1981, de Montmollin 1989, Smith 1994) highlight its problematic

According to Kuper (1982:88-89), the segmentary state may be viewed as an ingenious modification of lineage theory. The basic component of the segmentary

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state is the segmentary lineage (Southall 1956). Although no segmentary lineages had been reported in Mesoamerica until the recent research on the Quiché Maya (Fox 1987:4), many Maya archaeologists and epigraphers now see the segmentary state as having been ubiquitous among the pre-Columbian Maya (Ball 1993, 1994, Ball and Taschek 1991, Houston 1993, Dunning and Kowalski 1994). At the same time that some Mayanists have embraced the segmentary state, other anthropologists have called into question the very existence of segmentary lineages in other than a heuristic academic setting (Kuper 1982:92):

My view is that the lineage model, its predecessors and its analogs, have no value for anthropological analysis. Two reasons above all support this conclusion. First, the model does not represent folk models which actors anywhere have of their own societies. Secondly, there do not appear to be any societies in which vital political or economic activities are organized by a repetitive series of descent groups.

Kuper's comments are not as extreme as they might first appear but rather indicative of a growing body of critical and reflective literature concerned with ethnographic methodology and, in particular, the impact of the field-worker's identity on the creation of that ethnography (see Tedlock 1991:80). Work on the Maya and on peoples elsewhere in Mesoamerica suggests that, rather than societies' being based solely on lineage principles, non-kinship-based territorial units were also key building blocks (Farriss 1984:137, 163; Hassig 1985:94; Hill and Monaghan 1987:159; but see McAnany 1995 for an alternative lineage-based interpretation of Maya society).

Complicating the situation is the fact that numerous concepts have been bundled together within the framework of the segmentary state. Richard Fox (1977) first conjoined "regal-ritual" cities with the "segmentary state." Stephen Houston (1993:144) has explicitly linked the terms "segmentary state" and "galactic polity" (Tambiah 1977), noting that "if reduced to its essentials, the galactic polity is difficult to distinguish from Southall's segmentary state, since both emphasize similar features, including the ritual privileges and supremacy of the ruler." And Ball (1994:390) has recently lumped even more diverse theoretical constructs (Bloch 1961, Geertz 1980, Kirchhoff 1955, Tambiah 1977) by conjoining "regal-ritual" cities with "the 'segmentary state,' a general category also known as the 'theatre-state' or 'conical clan state' and encompassing such special subtypes as 'galactic polities' and 'feudal states.'" Even if the segmentary state were applicable to the Maya, the category lumps things together that are exceedingly diverse and variable (see Marcus 1995:4 for a similar critique).

Galactic polities (Demarest 1992a) are not equivalent to feudal states (Adams and Smith 1981), and, presumably, few supporters of any of these concepts would be comfortable interpreting these models as part and parcel of lineage-based conical clans. Each model has its own characteristics, some of which are directly contradictory. For example, the notion of the galactic polity was

derived from societies that do not exhibit "true lineages" (Bentley 1986:290). In contrast, lineages are assumed to be the important component of segmentary states (Fox 1988). A primary element in feudal societies is landownership, while segmentary states, theater states (Geertz 1980), and galactic polities are focused on ritual. Thus, if one looks beyond any superficial similarities and examines the structural bases of these various models, the differences are more significant than the similarities.

Galactic polities are suggested to exist in both Southeast Asia (Tambiah 1977) and the Maya area (Demarest 1992a), largely because of similarities in ritual, dynastic focus, and "pulsating patterns"; "the emphasis throughout is not on cultural detail, but on political structure and its basis in symbolic structure" (Houston 1993:143). Yet, the existence of galactic polities and "the pulsating character of Southeast Asian kingdoms" have been attributed "to structural constraints on royal power (low population density, inefficient taxation, dependence on foreign trade monopolies) and centrifugal pressures which inevitably gave rise to factionalism" (Bentley 1986:293). These combined structural constraints on royal power in Southeast Asia are not, however, in evidence among the Late Classic Maya polities with which we are familiar (see below). It is therefore very likely that the political structures in these two parts of the world were quite different, at least in specific instances. Carneiro (1992:185) further notes that any pulsating of polities was "commonplace and expectable." And, in the sense of temporal pulsation, galactic polities may even be incorporated into Marcus's (1993) "dynamic model" for Maya political organization and, indeed. within general anthropological theory relating to the consolidation of states into empires (Sinopoli 1994:162). For the Maya area, however, Marcus's (1993) dynamic model explicitly sees the waxing and waning that characterized all long-term states as a continuous long-term vacillation, or "pulsation," between a more centralized state and a less centralized chiefdom level of organization (see Skinner 1977 for a similar argument for China). Like segmentation (Sahlins 1961), however, pulsation as a quality or attribute is not enough in itself to justify typological definition.

The typological approach itself is undergoing considerable critique in archaeology (Feinman and Neitzel 1984; Plog and Upham 1983; Upham 1987, 1990; Yoffee 1993) and anthropology (see Goodenough 1970). In contrast, many Mesoamerican researchers are still attempting to fit their data to idealized types in an attempt to place the Maya within broader evolutionary theory. Unfortunately, however, Maya data generally are not being compared with the defined ideal type(s) to assess potential variation (see Stein 1994 and de Montmollin 1989 for examples of this process). Instead, regal-ritual cities and the segmentary state have been combined in an idealized theoretical entity (cf. R. Fox 1977, Sanders 1989, Ball and Taschek 1991, Fash 1991, Ball 1994) and reified to the point that some have seen the model as explaining and interpreting Maya culture itself: "in the case of Late Classic Lowland Maya political organization and the segmentary-state concept we would appear to have attained that most sought-after of all goals in theoretical science, an explanatory model that works" (Ball 1993:15).

Yet, applications of the model to data are problematic and contradictory. Simple associations are difficult, and distinct orders of complexity are implied for the same data by different researchers; this is the case for the Maya as well as for other cultures. Vijayanagara, India, has been referred to as a segmentary state (Fritz 1986:46; Southall 1988), a galactic polity (Fritz, Michell, and Rao 1984:148), and an empire (Sinopoli 1994:162)—thus running the gamut from regal-ritual city to imperial capital. The Maya are cast as both a segmentary and a unitary state, with raucous support for both positions (Ball 1994; Marcus 1995:28]. But when the Aztec empire—perhaps the most complex example of stratification in ancient Mesoamerica (see Sanders, Parsons, and Santley 1979) can be classed as a "segmentary state" [Hayden 1994; 199), the problems associated with such terminology are brought into sharp focus. If the Aztec were to be accepted as being a segmentary state, then there would be little use in trying to determine if Maya polities might have evolved beyond this idealized political form. We believe that the characterization of the Lowland Maya as a segmentary state obscures the complexity and potential variety of political organizations that once existed in this area.

Maya Cities and Polities: A Question of Scale

Applications of the segmentary-state model to the Classic-period Lowland Maya do not take into account an extensive body of archaeological, ethnographic, historical, and ethnohistorical information that establishes tremendous contemporary and temporal diversity within Maya culture. Lumping all forms of political organization into a single type, as is often done by those who use the segmentary-state model (see Fox 1987), is particularly problematic given established population differences in identified Classic-era Maya capital cities ranging from less than 10,000 to well over 100,000 (Culbert and Rice 1990, A. Chase and D. Chase 1994); the associated polities would have integrated proportionately larger populations. These data imply substantial synchronic and diachronic variety in the organization of associated Maya political units (D. Chase and A. Chase 1992:309-10; Marcus 1993).

Segmentary and unitary states have now become a dichotomy. Yet, Southall (1956) developed the concept of the segmentary state as an intermediate type for African societies that had earlier been subdivided into "stateless uncentralized" groups and "centralized state" groups (in a pre-Service [1962] era). His unitary states were "embedded in social matrices of greater population density and economic specialization, both correlates of more intensive cultivation and features which occur

more along a gradient towards organic solidarity," while the segmentary state was "somewhat decentralized," "less hierarchical," and less "bureaucratized" (Fox 1988:104, 110).

While the theoretical constructs are elegant, the onthe-ground reality of the societies for which such a proposed system functioned in Africa are telling. Presumed segmentary states in Africa were exceedingly small in areal extent. Spencer (1990:9-10, after Cohen and Schlegel 1968) notes that nonstate, chiefdom societies in Africa were much smaller than states and encompassed areal domains of less than 1,100 km²; indeed, the areal size of a "polity" in Africa could be correlated with its level of administrative and political development. This 1,100 km² figure can be viewed as being in accord with sizes inferred for other incipient states, such as those encountered in "peer-polity" models (Renfrew and Cherry 1986). "The early state module is a recurrent autonomous unit, regularly spaced, and of fairly uniform size," ca. 20–30 km in diameter, or ca. 1,500 km² in area (Houston 1993:145, after Renfrew 1982:282).

A key question, then, is how big Classic Maya polities were. Contrasting interpretations are based on both the epigraphic and the archaeological data. Thompson [1954:81] employed a city-state model for Lowland Maya society consisting of single centers of small territorial extent. Mathews (1991) similarly has argued that each Maya emblem glyph represents a specific polity and that the Classic Maya landscape was dotted with some 60–80 small, independent city-states. Interestingly, if one looks at the size of these proposed emblem-glyph polities (Mathews 1985; Marcus 1993:161), the populous and dominant Guatemalan site of Tikal would be associated with the smallest territorial unit, only 1,081 km², all the others would control well over 1,100 km². But do emblem glyphs define single territories?

Both epigraphers (Marcus 1976; 1993:157-63; Martin and Grube 1995) and archaeologists (Adams and Jones 1981; Culbert 1991:140-44; 1995) have provided alternative models which place the territorial and administrative extent of several Maya polities in the 7,932-21,095 km² range (Adams and Jones 1981) or even larger (Martin and Grube 1995). Polity size likely varied over time. Tikal may have controlled 21.095 km² of territory prior to A.D. 562, but after this date its territorial extent was somewhat less. Research at Caracol indicates that this site was independent of Tikal during the Late Classic; epigraphy suggests that it maintained 7,000-12,000 km² of territory from A.D. 631 TO A.D. 680 (A. Chase and D. Chase 1991); archaeology points to no loss of scale following this date (in spite of a current lack of hieroglyphic data). In contrast to the use of emblem glyphs alone, combined archaeological and epigraphic data can be used to infer that typical Maya polities of the Late Classic era were on average approximately 8,000 km2 in size and, presumably, contained a system of hierarchically ordered centers.

Like the larger polities, Lowland Maya centers of the Late Classic era varied substantially in their spatial extent, populations, and composition. Archaeological data demonstrate that these sites were not vacant ceremonial centers. Unlike regal-ritual cities, which could not "maintain large urban populations or the power to organize and control such populations" (R. Fox 1977:54), large Maya cities were centers of population, power, trade, and administration (Chase, Chase, and Haviland 1990, but see Sanders and Webster 1988). Certain Maya "garden cities" contain evidence of substantial public works, often in the form of causeways or field systems.

During the Late Classic period several of the largest of these cities-such as Dzibilchaltun, Coba, Calakmul, Tikal, and Caracol—had populations ranging from over 40,000 to upwards of 150,000 individuals. Dzibilchaltun, Mexico, has had 19 km² of its settlement mapped, and the population estimated as residing at this site during its Classic-era height is 42,000 (Kurjack 1974:94). The major site of Coba, Mexico, included a population of between 42,870 and 62,652 within a 63-km² area (Kintz and Fletcher 1983:197-202). Calakmul, Mexico, contained 50,000 people within an area of 70 km2 and controlled a polity of 8,000 km² (Fletcher et al. 1987:20) Folan et al. 1995:310). Tikal, Guatemala, minimally contained some 62,000 people within 120 km²; the city is estimated to have controlled a population in excess of 425,000 within a 25-km radius (1,963 km², Culbert et al. 1990:117). The urban area of Caracol spread out over some 177 km2 and contained between 115,000 and 150,000 people (A. Chase and D. Chase 1994:5). Its polity size and population were much larger; Caracol, in fact, directly incorporated the Guatemalan site of Naranjo (42 km distant) within its domain for at least 50 years (A. Chase and D. Chase 1996).

Given these large population figures for Classic-period urban centers, substantial administrative effort would have to have been expended not only within them but also within their larger polities. While population in and of itself may not be directly reflective of complexity, population thresholds have been correlated with everincreasing scales of integration, high population numbers and densities are thought to necessitate more complex organization (Carneiro 1967; Johnson and Earle 1987:225, 246; Wenke 1990:294). Dense populations have great time depth in the Maya area. Komchen, Mexico, is estimated to have had a total population of 2,500-3,000 in a 2-km² area between 350 and 150 B.C. (Ringle and Andrews 1990:231). Thus, populous Maya sites cannot be viewed as either spatial or temporal aberrations. They are key elements in a hierarchy of settlements within the Lowland Maya political landscape that was characterized by substantial scale, complexity, and integration by the Classic period.

Caracol: Scale, Hierarchy, and Integration

The Belizean site of Caracol is an excellent vantage point from which to view the composition of a Maya polity. The site has been investigated by the Caracol Archaeological Project for over a decade (A. Chase and D. Chase 1987, n.d.; D. Chase and A. Chase 1994), and

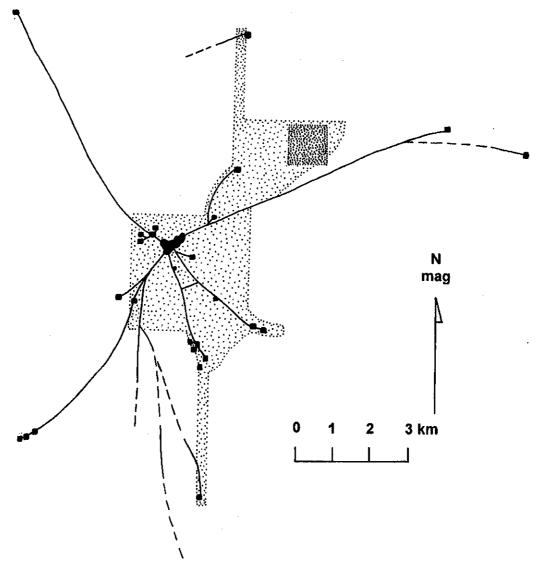


Fig. 1. Plan of Caracol, showing the location of ground-confirmed causeways. Blackened areas, epicenter and known causeway termini, lighter stipple, area mapped by transit; darker stipple, 1-km² area for which all of the settlement and most of the terraces have been recorded.

some 16 km² of it have been mapped, including detailed areas of agricultural terraces. Extensive horizontal exposures and areal investigations have been undertaken in conjunction with deep trenching. Approximately 100 nonepicentral plaza groups, including causeway termini, have been archaeologically investigated, producing a sizable database. Among the most significant aspects of Caracol are its nonresidential constructions, such as causeways and field systems, which allow a detailed view of the growth and maintenance of a large Maya polity.

Survey indicates that the city of Caracol encompassed minimally 177 km² and had a population of greater than 115,000 and probably over 150,000 at A.D. 675 (A. Chase and D. Chase 1994). Over 70 km of intrasite causeways

are known. These causeways measure between 3 and 12 m in width and radiate from the epicenter (fig. 1). Satellite imagery suggests that the site's road system continues beyond the city, extending to the northwest as well as to the southeast (fig. 2). These causeways reveal a dendritic transport system as well as a distinct "linked" settlement hierarchy with administrative and economic functions (A. Chase and D. Chase 1995).

As the city of Caracol exploded in size at the beginning of the Late Classic period, it expanded its causeway system. Causeways linked the epicenter directly to elite household groups, to large specially constructed plazas, and to preexisting centers engulfed by the city's urban sprawl. The previously independent centers of Cahal Pichik, Hatzcap Ceel, Retiro, Cohune, and Ceiba were

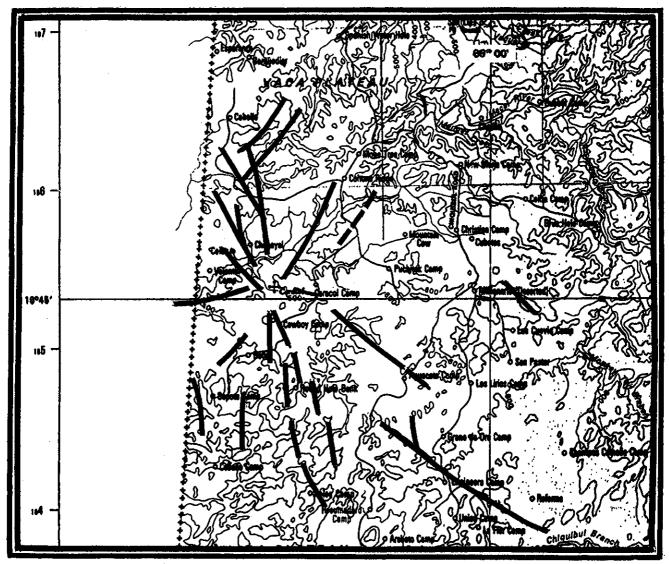


Fig. 2. Caracol causeways as derived from LANDSAT information (courtesy of Jim E. Rose, Dallas, Tex.). The western Cahal Pichik and Hatzcap Ceel Causeways (confirmed on the ground) are not in evidence in these data. Ground confirmation has been undertaken for only about one-third of the causeways shown. For comparative scale, Round Hole Bank is the locus of the termini shown toward the end of the south transect in figure 1. North is to the top of the map; the vertical distance represented is 34 km.

incorporated into the city, and plazas were built in them and in other previously unoccupied areas at the end of causeways connected with the epicenter. These "special-function" termini were characterized by plazas as big as those in the site epicenter but with distinctive configurations. Rather than being flanked by pyramids, they were surrounded by low structures and sometimes one or two raised elongated range buildings [fig. 3]. Excavations within such termini have indicated a general absence of ritual and domestic items. The results of these excavations and the placement of these plazas within the urban matrix of Caracol suggest that their primary function was integrative. One or more elite do-

mestic groups, some with their own temple pyramids, are often nearby and linked to these termini by their own causeways. This vast causeway system served to bind the extensive settlement that made up Caracol into an integrated whole.

Most of the outlying area of Caracol exhibits extensive agricultural terracing and heavy population densities. In one sampled area 5 km from the epicenter, an estimated 972 people lived within a 1-km² area of dense terraces (fig. 4), this representative area is more than a kilometer beyond the specially constructed Puchituk Causeway terminus and well removed from the Cahal Pichik Causeway that passes to its south. The large-

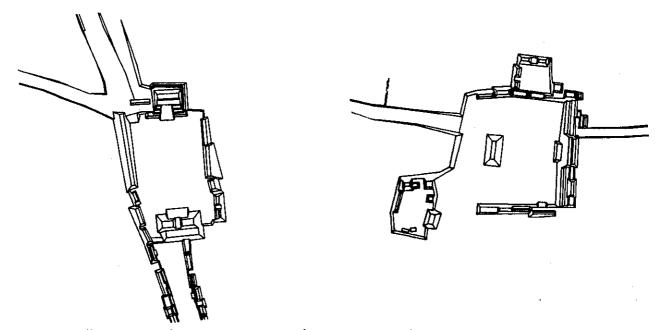


Fig. 3. Specially constructed causeway termini. Left, Pajaro-Ramonal Plaza; right, Conchita Plaza, at the same scale.

scale terrace systems mapped within this segment of Caracol are typical of the site as well as of regions well beyond what are believed to be the boundaries of the city (although areas outside the city limits presumably had lower population densities). These terrace systems, perhaps in conjunction with out-field farming, were able to support the huge contiguous populations found throughout the Caracol region. The regularity seen in the alignment and organization of the terraces, combined with the hierarchy of integrative or administrative plazas evident in the Caracol causeway system, may be taken as the often difficult-to-identify "direct archaeological evidence for state involvement in agricultural management" (Demarest 1992a:146).

Caracol's causeway system and outlying settlement show articulation both within the site and between Caracol and other centers. The organization of the Caracol polity shows evidence of a centralized hierarchy of administrative nodes that contradicts the redundancy and replication of administrative features in Maya centers of all levels that is presupposed by the segmentary-state model. Caracol's special-function causeway termini do not replicate Caracol's epicentral plazas, with their associated monuments, palaces, temples, and ballcourts. Nor do noncauseway-connected lower-tier sites like Caledonia (Awe 1985) replicate either Caracol's termini or epicenter. Caracol's causeway system provides evidence of both an administrative hierarchy of central places and an administered economy based on solar or dendritic principles (cf. Smith 1976, A. Chase and D. Chase 1995] into which was woven individual household specialization (Pope 1994) (the existence of economic specialization at a household level does not preclude hierarchy and functional heterogeneity).

Combined archaeological data and hieroglyphic history suggest an even more dynamic situation. The epigraphic data from Caracol demonstrate that dynastic rule was in place for over 500 years, with some 30 named rulers between A.D. 331 and A.D. 859 (Chase, Grube, and Chase 1991, Houston 1987, Grube 1994). This hieroglyphic record tells of a defeat of Tikal in A.D. 562 and a war of incorporation relating to the Guatemalan site of Naranjo beginning in A.D. 626 and completed by A.D. 636. if not A.D. 631. In A.D. 680 Naranjo broke away from the sway of Caracol. Later texts name secondary administrators and bureaucrats (Chase, Grube, and Chase 1991). On the basis of these epigraphic data, the Caracol polity can be estimated as having controlled 7,000-12,000 km² at approximately A.D. 650 (A. Chase and D. Chase 1991). Archaeological data from the southeastern Peten (Laporte 1994), an area which would have also been incorporated within this polity, confirm Caracol's impact in this region from the 6th through the 9th century (A. Chase n.d.).

Other archaeological data from Caracol also demonstrate the site's complexity and integration. Most of Caracol's carved monuments are located in the site epicenter and, when viewed in terms of their texts and spatial matrix, are indicative of centralization. The hierarchy evident at the site can also be seen in other ways. As of 1995 approximately 100 tombs had been investigated at Caracol. Such tombs are widely distributed at the site and in its surrounding region (Awe 1985, A. Chase 1992, A. Chase and D. Chase 1996, Laporte 1994, Thompson 1931). The largest chambers occur within the site epicenter and are painted; intermediate-sized chambers occur thoughout Caracol and the area of its termini, smaller chambers are recorded for Caracol's dependent

Fig. 4. A 1-km² area of outlying settlement and terraces (see fig. 1). Some 243 structures are located in this area, representing an estimated population of 972 at A.D. 675. The terraces were not recorded in the southeastern section of this 1 km²; the parallel lines here represent a modern road.

centers over a vast area outside of the site itself (A. Chase 1992:38; Laporte 1994). Significantly, the spatial distribution of these chambers and their volume reflect an already noted hierarchical ordering of sites.

Conclusion

Our attempts to view pre-Columbian Mesoamerican peoples have often homogenized, unstratified, and sim-

plified them. This has been done on an anthropological, a historical, and certainly an archaeological level. Cancian (1976:234) has pointed out that

since anthropologists seldom find the kind of clear strata and unambiguous groups described in ideal types, they usually conclude that they are working in an unstratified society, and emphasize the homogeneity of the population or the personal characteristics of economically and politically dominant individuals. This implicit comparison with an ideal type obscures patterns of stratification in anthropological societies.

The Spaniards also simplified and homogenized the Lowland Maya, both physically through domination and ethnohistorically through their writings (Farriss 1984:165). A focus predominantly on Maya epigraphic history (cf. Schele and Freidel 1990) may also unintentionally have the same simplifying result. An emphasis on the epigraphic data relating to individual rulers permits a predisposition to anthropological models based on ideology and charismatic leaders (cf. Ball 1993:13; Demarest 1992a:157; Houston 1993); lack of hieroglyphic material may be misinterpreted as indicating

fragmentation and decline. A Western economic perspective based on capitalism has also cast ancient societies that did not participate in a market system economy as somewhat less than complex. It is our contention that this homogenization and simplification lead to a false view of ancient Lowland Maya society. We need to continue to combine all of the available data and to write and think about hierarchies, political economics, mechanisms of political control, and economic integration of specialized populations; only in this way can we define the diachronic and contemporary variation in ancient Maya sociopolitical organization. The Classic-period Maya maintained large, centralized, differentiated, and integrated polities based on far more than kinship and the ideological role of kings.

bases that generate them do not need to be imposed wholesale to be of use in comparative history and anthropology. I would only argue that aspects of the galactic-polity model do lead us to focus on structural characteristics and dynamics central to an understanding of the variability and the instability of Maya states. Even with the new rich epigraphic data, we need comparative ethnography and history to provide alternative interpretations of Maya culture history and to provide historiographic guidelines for the interpretation of the propagandistic elite "emic" perspective of Maya monumental inscriptions. Unlike some cynics, I agree completely with Marcus, Schele, Freidel, Mathews, Stuart, Houston, Grube, and others that the inscriptions provide our best data for the interpretation of Maya political organization (see, e.g., Marcus 1976, 1983b, 1992, 1993; Mathews 1985, 1988, 1991; Culbert 1988; Schele and Freidel 1990; Stuart and Houston 1989). They can do so, however, only when this historical record is skeptically processed by historiographic interpretation guided by comparative history and ethnography. Mayanists should not isolate themselves from comparative anthropology and history.

In the coming decades, models of Maya political dynamics should be generated from epigraphic data and comparative studies and then tested, as the Chases and others are doing, by archaeological and ethnohistorical researches. Such projects, instead of seeking to discover the true form of the Maya state, should focus on the central issues of Maya political history: the instability and variability of Maya politics, the phenomenon of the collapse, and the failure of any of the Classic period's lowland political formations to give rise to urban, nucleated, and economically powerful Postclassic states. As we wrestle with these issues we should remember that our greatest challenges—and our frustrations—come from the protean nature of the Maya state itself.

References Cited

- ADAMS, RICHARD E. W. 1974. "A trial estimation of Classic Maya palace populations at Uaxactun," in Mesoamerican archaeology: New approaches. Edited by N. Hammond, pp. 285-96. Austin: University of Texas Press.
- . 1977. Prehistoric Mesoamerica. Boston: Little, Brown. ADAMS, RICHARD, E. W., AND R. D. JONES. 1981. Spatial patterns and regional growth among Maya cities. American Antiquity 46:301-22.
- ADAMS, RICHARD E. W., AND W. D. SMITH. 1981. "Feudal models for Classic Maya civilization," in Lowland Maya settlement patterns. Edited by W. Ashmore, pp. 335-49. Albuquerque: University of New Mexico Press.
- ADAMS, ROBERT MC C. 1966. The evolution of urban society. Chicago: Aldine.
- ALVAREZ ARÉVALO, MIQUEL. 1987. Manuscriptos de Covalchaj. Museo del Popol Vuh Collección de Documentos Histor-
- ANDREWS, ANTHONY. 1983. Maya salt production and trade. Tucson: University of Arizona Press.
- ANDREWS, ANTHONY P. 1990. The fall of Chichen Itza: A preliminary hypothesis. Latin American Antiquity 1:258-67. AAD

- ANDREWS, ANTHONY P., AND, F. ROBLES C. 1985. "Chichen and Coba: An Itza-Maya standoff in the Early Postclassic Yucatan," in The Lowland Maya Postclassic. Edited by Arlen Chase and Prudence Rice, pp. 62-72. Austin: University of Texas Press. [AAD]
- ANDREWS, E. WYLLYS, V, AND JEREMY SABLOFF. 1986. "Classic to Postclassic: A summary discussion," in Late Lowland Maya civilization: Classic to Postclassic. Edited by Jeremy Sabloff and E. W. Andrews V, pp. 433-56. Albuquerque: University of New Mexico Press. [AAD]
- AWE, JAIME J. 1985. Archaeological investigations at Caledonia, Cayo District, Belize, M.A. thesis, Department of Anthropology, Trent University, Peterborough, Ont., Canada.
- ASHMORE, WENDY, AND GORDON R. WILLEY. 1981. "A historical introduction to the study of Lowland Maya settlement patterns," in Lowland Maya settlement patterns. Edited by W. Ashmore, pp. 3-18. Albuquerque: University of New Mexico Press.
- BALL, JOSEPH W. 1977. "The rise of the northern chiefdoms," in The origins of Maya civilization. Edited by R. E. W. Adams, pp. 101-32. Albuquerque: University of New Mexico Press.
- -. 1993. Cahal Pech, the ancient Maya, and modern Belize: The story of an archaeological park. San Diego: San Diego State University Press.
- 1994. "Northern Maya archaeology: Some observations on an emerging paradigm," in Hidden among the hills: Maya archaeology of the northwest Yucatan Peninsula. Edited by H. J. Prem, pp. 389-96. (Acta Mesoamericana 7.) Möckmühl: Verlag von Flemming.
- BALL, JOSEPH W., AND JENNIFER T. TASCHEK. 1991. Late Classic Lowland Maya political organization and central-place analysis: New insights from the Upper Belize Valley. Ancient Mesoamerica 2:149-65.
- BECKER, MARSHALL J. 1973. Archaeological evidence for occupational specialization among the Classic period Maya at Tikal, Guatemala. American Antiquity 38:396-406.
- BENTLEY, G. CARTER. 1986. Indigenous states of Southeast
- Asia. Annual Review of Anthropology 15:275-305.
 BERLIN, HEINRICH. 1958. El glifo "emblema" en las inscripciones Mayas. Journal de la Société des Americanistes 47:111-19.
- BLANTON, RICHARD, STEPHEN KOWALEWSKI, GARY FEIN-MAN, AND JILL APPEL. 1981. Ancient Mesoamerica: A comparison of change in three regions. New York: Cambridge University Press.
- BLOCH, MAURICE. 1961. Feudal society. Chicago: University of Chicago Press.
- BORHEGYI, STEPHAN F. DE. 1956. The development of folk and complex cultures in the southern Maya area. American Antiquity 21:343-56.
- BORIE, GRETA Z. 1982. Amaq': An emic model of organization for the Highland Maya. Master's thesis, Department of Anthropology, University of Pennsylvania, Philadelphia, Pa.
- BOSERUP, ESTER. 1965. The conditions of agricultural growth. Chicago: Aldine.
- BROWN, KENNETH L. 1985. "Postclassic relationships between the Highland and Lowland Maya," in The Lowland Maya Postclassic. Edited by A. F. Chase and D. Z. Chase, pp. 270-81. Austin: University of Texas Press.
- BRUMFIEL, ELIZABETH M. 1995. "Heterarchy and the analysis of complex societies: Comments," in Heterarchy and the analysis of complex societies. Edited by Robert M. Ehrenreich, Carole L. Crumley, and Janet E. Levy, pp. 125–31. Archaeological Papers of the American Anthropological Association 6.
- BRUMFIEL, ELIZABETH M., AND JOHN W. FOX. Editors. 1993. Factional competition and political development in the New World. Cambridge: Cambridge University Press.
- BULLARD, WILLIAM, R., JR. 1960. The Maya settlement pattern in northeastern Peten, Guatemala. American Antiquity 25:355-72.
- 1964. "Settlement pattern and social structure in the southern Maya lowlands during the Classic period." Actas y Memorias, XXXV Congreso Internacional de Americanistas, México, 1962, vol. 1, pp. 278-87. Mexico City.

- CANCIAN, FRANK. 1976. Social stratification. Annual Review of Anthropology 5:227-48.
- CARBONELL PASTOR, FERNANDO. 1973. Gramática Quiché. Guatemala: Instituto Indigenista Nacional.
- CARMACK, ROBERT M. 1966. La perpetuación del clan patrilineal en Totonicapan. Antropología e Historia de Guatemala
- . 1976. "La estratificación quichéana prehispánica." in Estratificación social en la Mesoamérica prehispánica. Edited by R. M. Carmack, pp. 245-77. Mexico City: Instituto Nacional de Antropología e Historia de México.
- 1977. "Ethnohistory of the central Quiché: The community of Utatlan," in Archaeology and ethnohistory of the central Quiché. Edited by D. T. Wallace and R. M. Carmack, pp. 1-19. Institute for Mesoamerican Studies, State University of New York, Albany, publ. 1.
- 1981. The Quiché Mayas of Utatlan. Norman: University of Oklahoma Press.
- CARMACK, ROBERT M., JOHN W. FOX, AND RUSSELL E. STEWART. 1975. La formación del reino quiché. Instituto de Antropología e Historia, special publ. 7.
- CARNEIRO, ROBERT L. 1967. On the relationship between size of population and complexity of social organization. Southwestern Journal of Anthropology 23:234-43.
- 1992. "Point counterpoint: Ecology and ideology in the development of New World civilizations," in Ideology and pre-Columbian civilizations. Edited by A. Demarest and G. Conrad, pp. 175-203. Santa Fe: School of American Research Press. CARRASCO, PEDRO. 1963. La endogamia según un documento

Cakchiquel. Tlalocan 4:97-119.

- . 1971. "Social organization of ancient Mexico," in Handbook of Middle American Indians, vol. 10. Edited by G. F. Ekholm and I. Bernal, pp. 349-75. Austin: University of Texas
- . 1988. Territorial and kinship segments in pre-Spanish highland Guatemala and Central Mexico and their role in political conflict. Paper presented to the symposium "Factional Competition and Political Development in the New World," 46th International Congress of Americanists, Amsterdam.
- cervantes martínez, ramón w. 1990. Un pueblo de fugitivos: Etnografía e historia oral de un pueblo maya del centro de Belice. Master's thesis, Escuela Nacional de Antropología e Historia, México, D.F.
- CHASE, ARLEN F. 1992. "Elites and the changing organization of Classic Maya society," in Mesoamerican elites: An archaeological assessment. Edited by D. Z. Chase and A. F. Chase, pp. 30-49. Norman: University of Oklahoma Press.
- . n.d. "Polities, politics, and social dynamics: 'Contextualizing' the archaeology of the Belize Valley and Caracol," in New developments in the archaeological of the Belize Valley. Edited by J. Garber and J. Awe. MS.
- CHASE, ARLEN, F., AND DIANE Z. CHASE. 1987. Investigations at the Classic Maya city of Caracol, Belize: 1985-1987. Pre-Columbian Art Research Institute Monograph 3.
- -. 1991. Mixing archaeology and touristic development at Caracol. Belize Today 5(5):12-13.
- . 1992. "Mesoamerican elites: Assumptions, definitions, and models," in Mesoamerican elites: An archaeological assessment. Edited by D. Z. Chase and A. F. Chase, pp. 3-17. Norman: University of Oklahoma Press.
- . 1994. "Details in the archaeology of Caracol, Belize: An introduction," in Studies in the archaeology of Caracol, Belize. Edited by D. Z. Chase and A. F. Chase, pp. 1–11. Pre-Columbian Art Research Institute Monograph 7.
- . 1995. Visions of empire: Economy, society, and power at Caracol, Belize. Paper presented at the 94th annual meeting of the American Anthropological Association, Washington, D.C., November 18.
- . 1996. An embarrassment of riches: Mid-level Maya and nation-building at Caracol, Belize. Archaeology 49(5). In press. . n.d. Investigations at Caracol, Belize: 1988-1993. Pre-Columbian Art Research Institute Monograph 8.
- CHASE, ARLEN F., NIKOLAI GRUBE, AND DIANE Z. CHASE.

- 1991. Three Terminal Classic monuments from Caracol, Belize. Research Reports on Ancient Maya Writing 36.
- CHASE, ARLEN F., AND PRUDENCE M. RICE, Editors. 1985. The Lowland Maya Postclassic. Austin: University of Texas
- CHASE, DIANE Z. 1986. "Social and political organization in the land of cacao and honey: Correlating the archaeology and ethnohistory of the Postclassic Lowland Maya," in Late Lowland Maya civilization. Edited by J. A. Sabloff and E. W. Andrews, pp. 347-77. Albuquerque: University of New Mexico Press.
- . 1992. "Postclassic Maya elites: Ethnohistory and archaeology," in Mesoamerican elites: An archaeological assessment. Edited by D. Z. Chase and A. F. Chase, pp. 118-34. Norman: University of Oklahoma Press.
- CHASE, DIANE Z., AND ARLEN F. CHASE. 1988. A Postclassic perspective: Excavations at the Maya site of Santa Rita Corozal, Belize. Pre-Columbian Art Research Institute Monograph
- . 1992. "An archaeological assessment of Mesoamerican elites," in Mesoamerican elites: An archaeological perspective. Edited by D. Z. Chase and A. F. Chase, pp. 303-17. Norman: University of Oklahoma Press.
- Editors. 1994. Studies in the archaeology of Caracol, Belize. Pre-Columbian Art Research Institute Monograph 7.
- CHASE, DIANE Z., ARLEN F. CHASE, AND WILLIAM A. HAVI-LAND. 1990. The Classic Maya city: Reconsidering "The Mesoamerican urban tradition." American Anthropologist 92: 499-
- CHORDAS, THOMAS J. 1980. "Catholic Pentecostalism: A new word in a new world," in Perspectives on Pentecostalism: Case studies from the Caribbean and Latin America. Edited by Stephen D. Glazier. Washington, D.C.: University Press of
- CLAESSEN, HENRI J. M. 1978. "The early state: A structural approach," in The early state. Edited by H. J. M. Claessen and P. Skalník, pp. 533-96. The Hague: Mouton.
- -. 1992. Segmentary and state are strange bedfellows. Paper presented at the symposium "The Segmentary State and the Classic Lowland Maya," Cleveland State University, Cleve-
- COHEN, RONALD, AND ALICE SCHLEGEL. 1968. "The tribe as a socio-political unit: A cross-cultural examination," in Essays on the problem of tribe. Edited by J. Helm, pp. 120-46. Seattle: University of Washington Press.
- COHEN, RONALD, AND ELMAN R. SERVICE. Editors. 1978. Origins of the state. Philadelphia: Institute for the Study of Human Issues.
- CONRAD, GEOFFREY, AND ARTHUR DEMAREST. 1984. Religion and empire: The dynamics of Aztec and Inca expansionism. Cambridge: Cambridge University Press. [AAD]
- COOK, GARRETT W. 1981. Supernaturalism, cosmos, and cosmogony in Quichéan expressive culture. Ph. D. diss., State University of New York at Albany, Albany, N.Y.
- COOK, GARRETT W, AND JOHN W. FOX 1994. Sacred journeys. Paper presented at the Mesa Redonda de Palenque, Mexico.
- C'OYOI. 1973 (ca. 1560). "Título C'oyoi," in Quichéan civilization. Translated and edited by Robert Carmack, pp. 265-345. Berkeley: University of California Press.
- CRUMLEY, CAROLE L. 1995. "Heterarchy and the analysis of complex societies," in Heterarchy and the analysis of complex societies. Edited by Robert M. Ehrenreich, Carole L. Crumley, and Janet E. Levy, pp. 1-5. Archaeological Papers of the American Anthropological Association 6.
- CULBERT, T. PATRICK. 1973. The Classic Maya collapse. Albuquerque: University of New Mexico Press.
- -. 1991. "Polities in the northeast Peten, Guatemala," in Classic Maya political history: Hieroglyphs and archaeological evidence. Edited by T. P. Culbert, pp. 128-46. Cambridge: Cambridge University Press.
- 1995. Warfare and the segmentary state. Paper presented at the Primera Mesa Redonda de Palenque, September.
- CULBERT, T. PATRICK, LAURA J. KOSAKOWSKY, ROBERT E. FRY, AND WILLIAM A. HAVILAND. 1990. "The population of

- Tikal, Guatemala," in Precolumbian population history in the Maya Lowlands. Edited by T. P. Culbert and D. S. Rice, pp. 103-21. Albuquerque: University of New Mexico Press.
- CULBERT, T. PATRICK, AND DON S. RICE. Editors. 1990. Precolumbian population history in the Maya Lowlands. Albuquerque: University of New Mexico Press.
- DE COTO, FRAY TOMÁS. 1983. Thesaurus verboru: Vocabulario de la lengua cakchiquel v(el) Guatemalteca, nuevamente hecho y recopilado con sum estudio, trabajo y erudición. Edited by René Acuna. México, D.F.: Universidad Nacional Autónoma de México.
- DEMAREST, ARTHUR A. 1984. Conclusiones y especulaciones acerca de El Mirador. Mesoamerica 7:138-50. [AAD]
- . 1986. The archaeology of Santa Leticia and the rise of Maya civilization. Tulane University Middle American Research Institute Monograph 52. [AAD]
- . 1988. "The Salvadoran frontier," in The civilization of the southeastern Classic Maya. Edited by Elizabeth Boone, pp. 335-94. Washington, D.C., Dumbarton Oaks Foundation/ Trustees for Harvard University. [AAD]
- . 1992a. "Ideology in ancient Maya cultural evolution: The dynamics of galactic polities," in Ideology and pre-Columbian civilizations. Edited by A. Demarest and G. Conrad, pp. 135-57. Santa Fe: School of American Research Press.
- 1992b. The Petexbatun Regional Archaeological Project: War, peace, and the collapse of the Maya civilization. Paper presented at the 47th International Congress of Americanists, New Orleans, La. [AAD]
- 1993. The violent saga of a Maya kingdom. National Geographic 183:94-111. [AAD]
- Gregor, pp. 215-48. Nashville: Vanderbilt University Press.
- DEMAREST, ARTHUR A., AND H. ESCOBEDO. 1996. "El Proyecto Arqueológico Punta de Chimino: Objectivos, descubrimientos, interpretaciones preliminares," in IX simposio de investigaciones arqueológicas en Guatemala. Guatemala: Museo Nacional de Arqueología y Etnología. [AAD]
- DEMAREST, A., T. INOMATA, H. ESCOBEDO, AND J. PALKA. 1991. Proyecto Arqueológico Regional Petexbatun: Informe preliminar 3, Tercera temporada. Guatemala: Instituto de Antropología e Historia de Guatemala. [AAD]
- DEMAREST, A., AND J. A. VALDES. 1991. "Conclusiones preliminares e interpretaciones de la temporada de campo de 1991: Resumen y revisión general," in Proyecto Arqueológico Regional Petexbatun: Informe preliminar 3, Tercera temporada. Guatemala: Instituto de Antropología e Historia de Guatemala. [AAD]
- 1993. "Proyecto Arqueológico Regional Petexbatun: Resultados y perspectivas de la cuarta temporada," in VI simposio de investigaciones arqueológicas en Guatemala. Edited by J. P. Laporte, H. Escobedo, and S. V. de Brady, pp. 155-58. Guatemala: Museo Nacional de Arqueología y Etnología. [AAD]
- . 1994a. "Regresión política y el colapso de la civilización Maya en la región Petexbatun," in VIII simposio de investigaciones arqueológicas en Guatemala. Guatemala: Museo Nacional de Arqueología y Etnología. [AAD]
- Editors. 1994b. Proyecto Arqueológico Regional Petexbatun: Informe preliminar 36, Sexta temporada. Guatemala: Instituto de Antropología e Historia de Guatemala. [AAD] DE MONTMOLLIN, OLIVIER. 1989. The archaeology of political
- structure: Settlement analysis in a Classic Maya polity. Cambridge: Cambridge University Press.

 DRENNAN, ROBERT D. 1988. "Household location and compact
- versus dispersed settlement in prehispanic Mesoamerica," in Household and community in the Mesoamerican past. Edited by Richard Wilk and Wendy Ashmore, pp. 273-93. Albuquerque: University of New Mexico Press.
- DUMOND, DON E. 1977. "Independent Maya of the late nineteenth century: Chiefdoms and power politics," in Anthropology and history in Yucatan. Edited by Grant D. Jones, pp. 103-38. Austin: University of Texas Press.

- DUNHAM, PETER S. 1990. Coming apart at the seams: The Classic development and the demise of Maya civilization, a segmentary view from Xnaheb, Belize. Ph.D. diss., State University of New York at Albany, Albany, N.Y.
- 1992. Summary remarks. Paper presented at the symposium "The Segmentary State and the Classic Lowland Maya," Cleveland State University, Cleveland, Ohio.
- DUNNING, NICHOLAS P., AND JEFF K. KOWALSKI. 1994. Lords of the Hills: Classic Maya settlement patterns and political iconography in the Puuc region, Mexico. Ancient Mesoamerica 5:63-95.
- EARLE, TIMOTHY K. 1987. Chiefdoms in archaeological and ethnohistorical perspective. Annual Review of Anthropology 16:279-308.
- EDMONSON, MUNRO S. Translator and editor. 1971. The book of counsel: The Popol Vuh of the Quiché Maya of Guatemala. Middle American Research Institute, Tulane University, publ.
- Translator and editor. 1982. The ancient future of the Itza: The book of Chilam Balam of Tizimin. Austin: University of Texas Press.
- Translator and editor. 1986. Heaven-born Merida and its destiny: The book of Chilam Balam of Chumayel. Austin: University of Texas Press.
- EVANS-PRITCHARD, E. E. 1940. The Nuer. Oxford: Oxford University Press.
- FARRISS, NANCY M. 1984. Maya society under colonial rule: The collective enterprise of survival. Princeton: Princeton University Press.
- FASH, WILLIAM L. 1988. A new look at Maya statecraft from Copan, Honduras. Antiquity 62:157-59. [AAD]
- 1991. Scribes, warriors, and kings: The city of Copan and the ancient Maya. London: Thames and Hudson.
- FASH, WILLIAM L., AND ROBERT J. SHARER. 1991. Sociopolitical developments and methodological issues at Copan, Honduras. Latin American Antiquity 2:166-87.
- FEINMAN, GARY, AND JILL NEITZEL. 1984. Too many types: An overview of sedentary prestate societies in the Americas. Advances in Archeological Method and Theory 7:39–102.
- FLETCHER, LARAINE A., JACINTO MAY HAU, LYNDA M. FLO-REY FOLAN, AND WILLIAM J. FOLAN. 1987. Un análisis estadístico preliminar del patrón de asentamiento de Calakmul. Campeche: Universidad Autónoma del Sudeste.
- FOLAN, WILLIAM J. 1992. Calakmul, Campeche: A centralized urban administrative center in the northern Peten. World Archaeology 24:158-68.
- FOLAN, WILLIAM J., E. R. KINTZ, AND L. A. FLETCHER. 1983. Coba: A Classic Maya metropolis. New York: Academic Press.
- FOLAN, WILLIAM J., JOYCE MARCUS, AND W. FRANK MILLER, 1995. Verification of a Maya settlement model through remote sensing. Cambridge Archaeological Journal 5(2).
- FOLAN, WILLIAM J., JOYCE MARCUS, SOPHIA PINCEMIN, MARÍA DEL ROSARIO DOMÍNGUEZ CARRASCO, LARAINE FLETCHER, AND ABEL MORALES LÓPEZ. 1995. Calakmul: New data from an ancient Maya capital in Campeche, Mexico. Latin American Antiquity 6:310-34.
- FORTES, MEYER. 1945. The dyamics of kinship among the Tallensi. London: Oxford University Press.
- . 1953. The structure of unilineal descent groups. Ameri-
- can Anthropologist 55:17-21.
 FOX, JOHN W. 1977. "Quiché expansion processes: Differential ecological growth bases within an archaic state," in Archaeology and ethnohistory of the Central Quiché. Edited by D. T. Wallace and R. M. Carmack, pp. 82-87. Institute for Meso-
- american Studies. State University of New York, Albany, publ. 1. . 1978a. Quiché conquest. Albuquerque: University of New Mexico Press.
- ·. 1978b. Chinautla Viejo (Mixco): Un sitio estratégico en la frontera Pokoman-Cakchiquel. Anales de la Sociedad de Geografía e Historia 51:13-26.
- -. 1981. The Late Postclassic eastern frontier of Mesoamer-

——. 1987. Maya Postclassic state formation. Cambridge: Cambridge University Press.

-----. 1988. "Hierarchization in Maya segmentary states," in State and society: The emergence and development of social hierarchy and political centralization. Edited by J. Gledhill, B. Bender, and M. Larsen, pp. 103-12. London: Unwin Hyman.

. 1989. On the rise and fall of tulans and Maya segmentary states. American Anthropologist 91:656-81.

-----. 1993a. "Political cosmology among the Quiché Maya," in Factional competition and political development in the New World. Edited by E. M. Brumfiel and J. W. Fox, pp. 158–70. Cambridge: Cambridge University Press.

. 1996. Quiche founding events in petroglyphs, astronomy, and settlement patterns. Paper presented at the 12th Texas Symposium, "Paradigms of Power: Genesis and Foundation in Mesoamerica," 20th Maya Meetings, Austin, Tex.

FOX, RICHARD G. 1977. Urban anthropology: Cities in their cultural setting. Englewood Cliffs: Prentice-Hall.

FREIDEL, DAVID. 1981. "Civilization as a state of mind," in The transition to statehood in the New World. Edited by Grant Jones and Robert Kautz, pp. 188–227. Cambridge: Cambridge University Press. [AAD]

-----. 1983. "Political systems in lowland Yucatan: Dynamics and structure in Maya settlement," in *Prehistoric settlement patterns: Essays in honor of Gordon R. Willey.* Edited by Evon Vogt and Richard Leventhal, pp. 375–86. Albuquerque: University of New Mexico Press. [AAD]

------. 1986. "Terminal Classic lowland Maya: Successes, failures, and aftermaths," in *Late Lowland Maya civilization*. Edited by Jeremy Sabloff and E. W. Andrews V, pp. 409–30. Albuquerque: University of New Mexico Press. [AAD]

. 1992. "Children of the first father's skull: Terminal Classic warfare in the northern Maya lowlands and the transformation of kingship and elite hierarchies," in Mesoamerican elites: An archaeological assessment. Edited by Diane Z. Chase and Arlen F. Chase, pp. 99–117. Norman: University of Oklahoma Press. [AAD]

FREIDEL, DAVID A., AND JEREMY A. SABLOFF. 1984. Cozumel: Late Maya settlement patterns. New York: Academic Press.

FREIDEL, DAVID, LINDA SCHELE, AND JOY PARKER. 1995.

Maya cosmos: Three thousand years on the shaman's path.

New York: William Morrow.

FREIDEL, D. A., C. SUHLER, AND R. KROCHOCK. 1990. Yaxuna Archaeological Survey: A report on the 1989 field season and final report on phase one. Dallas: Department of Anthropology, Southern Methodist University. [AAD] FRETER, ANN CORINNE. 1981. Was the "Quiché state" a state?

FRETER, ANN CORINNE. 1981. Was the "Quiché state" a state? A reanalysis of the Utatlan residence zone data. Master of Arts thesis, Department of Anthropology, University of Houston, Houston, Tex.

FRIED, MORTON H. 1967. The evolution of political society: An essay in political anthropology. New York: Random House.

FRITZ, JOHN M. 1986. Vijayanagara: Authority and meaning of a South Indian imperial capital. *American Anthropologist* 88:44-55.

FRITZ, JOHN M., GEORGE MICHELL, AND M. S. NAGARAJA at RAO. 1984. Where kings and gods meet: The royal centre Vijayanagara, India. Tucson: University of Arizona Press.

GANN, THOMAS W. F., AND J. ERIC S. THOMPSON. 1931. The history of the Maya. New York: Scribner.

GEERTZ, CLIFFORD. 1980. Negara: The theatre state in nineteenth-century Bali. Princeton: Princeton University Press.

GLUCKMAN, MAX. 1956. Custom and conflict in Africa. Oxford: Basil Blackwell.

GOODENOUGH, WARD. 1970. Description and comparison in cultural anthropology. Chicago: Aldine.

GRAHAM, ELIZABETH A., GRANT D. JONES, AND ROBERT R. KAUTZ. 1985. "Archaeology and ethnohistory on a Spanish colonial frontier: An interim report on the Macal-Tipu project in western Belize," in *The Lowland Maya Postclassic*. Edited by Arlen F. Chase and Prudence M. Rice, pp. 206–14. Austin: University of Texas Press.

GRUBE, NIKOLAI. 1994. "Epigraphic research at Caracol, Belize," in Studies in the archaeology of Caracol, Belize. Edited by D. Z. Chase and A. F. Chase, pp. 83–122. Pre-Columbian Art Research Institute Monograph 7.

HAMMOND, NORMAN. 1975. Maya settlement hierarchy in northern Belize. Contributions of the University of California Archaeological Research Facility 27:40-55.

HARRISON, PETER D. 1969. "Form and function in a Maya palace group." Verhandlungen des XXXVIII Internationalen Amerikanistenkongresses, vol. 1, pp. 165-72. Stuttgart-Munich.

ikanistenkongresses, vol. 1, pp. 165-72. Stuttgart-Munich.

——. 1986. "Tikal: Selected topics," in City-states of the Maya. Edited by E. Benson, pp. 45-71. Denver: Rocky Mountain Institute for Pre-Columbian Studies.

HARRISON, PETER D., AND BILLY L. TURNER. Editors. 1978. Prehispanic Maya agriculture. Albuquerque: University of New Mexico Press.

HASSIG, ROSS. 1985. Trade, tribute, and transportation: The sixteenth-century political economy of the Valley of Mexico. Norman: University of Oklahoma Press.

HAVILAND, WILLIAM A. 1968. Ancient Lowland Maya social organization. Middle American Research Institute Publication 26:93-107.

——. 1970. Tikal, Guatemala, and Mesoamerican urbanism. World Archaeology 2:186–98.

HAYDEN, BRIAN. 1994. "Village approaches to complex societies," in Archaeological views from the countryside: Village communities in early complex societies. Edited by G. M. Schwartz and S. E. Falconer, pp. 198–206. Washington, D.C.: Smithsonian Institution Press.

HENDERSON, JOHN S., AND JEREMY A. SABLOFF. 1993. "Reconceptualizing the Maya cultural tradition," in Lowland Maya civilization in the eighth century A.D. Edited by J. A. Sabloff and J. S. Henderson, pp. 445-76. Washington, D.C.: Dumbarton Oaks.

HILL, ROBERT M., II. 1989. Social organization by decree in highland Guatemala. Ethnohistory 36:170-98.

HILL, ROBERT M., II, AND JOHN MONAGHAN. 1987. Continuities in Highland Maya social organization: Ethnohistory in Sacapulas, Guatemala. Philadelphia: University of Pennsylvania Press.

HODDER, IAN. 1986. Reading the past. London: Barsworth.

——. 1987. The archaeology of contextual meanings. Cambridge: Cambridge University Press.

HOUSTON, STEPHEN D. 1987. "Notes on Caracol epigraphy and its significance," appendix 2 in *Investigations of the Classic Maya city of Caracol, Belize:* 1985–87. Pre-Columbian Art Research Institute Monograph 3.

. 1993. Hieroglyphs and history at Dos Pilas: Dynastic politics of the Classic Maya. Austin: University of Texas

HOUSTON, STEPHEN D., AND PETER MATHEWS. 1985. The dynastic sequence of Dos Pilas, Guatemala. Pre-Columbian Art Institute Monograph 1.

JOHNSON, ALLEN W., AND TIMOTHY EARLE. 1987. The evolution of human societies: From foraging group to agrarian state. Stanford: Stanford University Press.

JONES, GRANT D. 1977a. "Introduction," in Anthropology and history in Yucatan. Edited by Grant D. Jones, pp. xi-xxiv. Austin: University of Texas Press.

- dro Maya," in Anthropology and history in Yucatan. Edited by Grant D. Jones, pp. 139-89. Austin: University of Texas-
- 1989. Maya resistance to Spanish rule: Time and history on a colonial frontier. Albuquerque: University of New Mex-
- KELLY, RAYMOND C. 1985. The Nuer conquest: The structure and development of an expansionist system. Ann Arbor: University of Michigan Press.
- KINTZ, ELLEN R., AND LARAINE A. FLETCHER. 1983. "A reconstruction of the prehistoric population at Coba," in Coba: A Classic Maya metropolis. Edited by W. J. Folan, E. R. Kintz, and L. A. Fletcher, pp. 191–210. New York: Academic Press.
- KIRCHHOFF, PAUL. 1955. The principles of clanship in human society. Davidson Anthropological Society Journal 1:1-11.
- KUPER, ADAM. 1982. Lineage theory: A critical retrospect. Annual Review of Anthropology 11:71-95.
- KURJACK, EDWARD B. 1974. Prehistoric Lowland Maya community and social organization: A case study at Dzibilchaltun, Yucatan, Mexico. Middle American Research Institute publ.
- LANDA, DIEGO DE. 1941. Relación de las cosas de Yucatán. Translated by Alfred M. Tozzer. Papers of the Peabody Mu-
- LAPORTE, JUAN PEDRO. 1994. Ixtontón, Dolores, Petén: Entidad política del noroeste de las montañas mayas. Universidad de San Carlos Atlas Arqueológico de Guatemala 2.
- MC ANANY, PATRICIA. 1995. Living with the ancestors. Kinship and kingship in ancient Maya society. Austin: University of Texas Press.
- MANI. 1979. The Codex Pérez and the book of Chilam Balam of Mani. Translated by Eugene R. Craine and Reginald G. Reindorp. Norman: University of Oklahoma Press.
- MARCUS, JOYCE. 1973. Territorial organization of the Lowland Classic Maya. Science 180:911-16.
- . 1976. Emblem and state in the Classic Maya lowlands: An epigraphic approach to territorial organization. Washington, D.C.: Dumbarton Oaks.
- . 1983a. "On the nature of the Mesoamerican city," in Prehistoric settlement patterns. Edited by E. Vogt and R. Leventhal, pp. 195-242. Albuquerque: University of New Mexico
- . 1983b. Lowland Maya archaeology at the crossroads. American Antiquity 48:454–88.
- 1992. Mesoamerican writing systems: Propaganda, myth, and history in four ancient civilizations. Princeton: Princeton University Press.
- -. 1993. "Ancient Maya political organization," in Lowland Maya civilization in the eighth century A.D. Edited by J. A. Sabloff and J. S. Henderson, pp. 111-83. Washington, D.C.: Dumbarton Oaks.
- 1995. Where is Lowland Maya archaeology headed? Journal of Archaeological Research 3:3-53.
- martin, simon, and nikolai grube. 1994. Evidence for macropolitical organization amongst Classic Maya lowland states. MS. [AAD]
- . 1995. Maya super-states. Archaeology 48(6):41-46. MASSARELLI, MARCELLA. 1972. Maya settlement in the Cayo District, British Honduras. Paper presented at the annual meeting of the American Anthropological Association, Toronto,
- MATHEWS, PETER. 1985. "Maya Early Classic monuments and inscriptions," in A consideration of the Early Classic period in the Maya lowlands. Edited by Gordon Willey and Peter Mathews, pp. 5-54. Institute for Mesoamerican Studies, State University of New York, Albany, publ. 10.
- -. 1988. The sculpture of Yaxchilan. Ann Arbor: University Microfilms.
- 1991. "Classic Maya emblèm glyphs," in Classic Maya political history: Hieroglyphs and archaeological evidence. Edited by T. P. Culbert, pp. 19-29, Cambridge: Cambridge University Press.
- MATHEWS, PETER, AND GORDON WILLEY. 1991. "Prehistoric

- polities of the Pasión region: Hieroglyphic texts and their archaeological evidence," in Classic Maya political history. Edited by T. Patrick Culbert, pp. 30-71. Cambridge: Cambridge University Press.
- MICHELS, JOSEPH W. 1977. "Political organization at Kaminaljuyu: Its implications for interpreting Teotihuacan influence,' in Teotihuacan and Kaminaljuyu: A study in prehistoric culture contact. Edited by William T. Sanders and Joseph W. Michels, pp. 453-67. University Park: Pennsylvania State University Press.
- MILES, SUZANNE W. 1957. The sixteenth-century Pokom-Maya: A documentary analysis of social structure and archaeological setting. Transactions of the American Philosophical Society
- MORGAN, LEWIS H. 1880. A study of the houses of the American aborigines. Archaeological Institute of North America, Annual Report of the Executive Committee 1:29-80.
- MORLEY, SYLVANUS G. 1924. Archaeology. Carnegie Institution of Washington Yearbook 22:267-73.
- -. 1946. The ancient Maya. Stanford: Stanford University Press.
- MORLEY, SYLVANUS G., GEORGE W. BRAINERD, AND ROB-ERT J. SHARER. 1983. 4th edition. The ancient Maya. Stanford: Stanford University Press.
- MUNSON, JO ANN. 1991. Diccionario Cackchiquel central y Español. Guatemala City: Instituto Lingüístico de Verano de Centroamérica.
- NIJAIB I. 1957 (ca. 1550). "Título de las casa Ixquin-Nehaib, Señora del territorio de Otzoya," in Crónicas indígenas de Guatemala. Edited by Adrian Recinos, pp. 71-94. Guatemala City: Imprenta Universitaria. NIJAIB II. 1957 (1558). "Título real de Don Francisco Nehaib,"
- in Crónicas indígenas de Guatemala. Edited by Adrian Recinos, pp. 95-111. Guatemala City: Imprenta Universitaria.
- NIJAIB III. 1973 (1542). "Appendix III: Título Nijaib III," in Quichéan civilization. Edited and translated by Robert M. Carmack, pp. 349-52. Berkeley: University of California Press.
- NIJAIB IV. 1973 (1555). "Appendix IV: Título Nijaib IV," in Quichéan civilization. Edited and translated by Robert M. Carmack, pp. 353-55. Berkeley: University of California Press.
- PEEBLES, CHRISTOPHER S., AND SUSAN M. KUS. 1977. Some archaeological correlates of ranked societies. American Antiquity 42:421-48.
- PLOG, FRED, AND STEADMAN UPHAM, 1983. "The analysis of prehistoric political organization," in The development of political organization in native North America. Edited by E. Tooker and M. Fried, pp. 199-213. Washington, D.C.: American Ethnological Society.
- POPE, CYNTHIA. 1994. "Preliminary analysis of small chert tools and related debitage at Caracol, Belize," in Studies in the archaeology of Caracol, Belize. Edited by D. Z. Chase and A. F. Chase, pp. 148-56. Pre-Columbian Art Research Institute Monograph 7.
- POTTER, DANIEL L., AND ELEANOR M. KING. 1995. "A heterarchical analysis of industrial organization," in Heterarchy and the analysis of complex societies. Edited by Robert M. Ehrenreich, Carole L. Crumley, and Janet E. Levy, pp. 17-32. Archaeological Papers of the American Anthropological Association 6.
- PROSKOURIAKOFF, TATIANA. 1960. Historical implications of a pattern of dates at Piedras Negras, Guatemala. American Antiquity 25:454-75.
- . 1963. Historical data in the inscriptions of Yaxchilan, pt. 1. Estudios de Cultura Maya 3:149-67.
- . 1964. Historical data in the inscriptions of Yaxchilan, pt. 2. Estudios de Cultura Maya. 4:177-201.
- PULESTON, D. E. 1978. "Terracing, raised fields, and tree cropping in the Maya lowlands: A new perspective in the geography of power," in Pre-Hispanic Maya agriculture. Edited by P. Harrison and B. Turner, pp. 225-45. Albuquerque: University of New Mexico Press.
- RATHJE, WILLIAM L. 1973. "Trade models and archaeological problems: The Classic Maya and their E-group complex." XL Congresso Internazionale degli Americanisti, vol. 4. Genoa.

- RECINOS, ADRIAN. 1957. Crónicas indígenas de Guatemala. Guatemala City: Imprenta Universitaria.
- REED, NELSON. 1964. The caste war of Yucatán. Stanford: Stanford University Press.
- Relaciones historicogeográficas de las provincias de Yucatán, Tabasco. 1898 (1579–81). Vol. 1. (Collección de Documentos Inéditos Relativos al Descubrimiento, Conquista y Organización de las Antiquas Posesiones Españoles 11.) Madrid: Real Academia de la Historia.
- RENFREW, COLIN. 1982. "Polity and power: Interaction, intensification, and exploitation," in An island polity: The archaeology of exploitation in Melos. Edited by C. Renfrew and M. Wagstaff, pp. 264–90. Cambridge: Cambridge University Press.
- RENFREW, COLIN, AND JOHN F. CHERRY. Editors. 1986. Peerpolity interaction and socio-political change. Cambridge: Cambridge University Press.
- RINGLE, WILLIAM M., AND E. WYLLYS ANDREWS V. 1990. "The demography of Komchen, an early Maya town in northern Yucatan," in *Precolumbian population history in the Maya lowlands*. Edited by T. P. Culbert and D. S. Rice, pp. 215-43. Albuquerque: University of New Mexico Press.
- ROYS, RALPH L. 1957. The political geography of the Yucatan Maya. Carnegie Institution of Washington publ. 613.
- ——. 1962. "Literary sources for the history of Mayapan," in Mayapan, Yucatan, Mexico. Edited by H. E. D. Pollock et al., pp. 25–86. Carnegie Institution of Washington publ. 619.
- SABLOFF, JEREMY A., AND E. WYLLYS ANDREWS V. Editors. 1986. Late Lowland Maya civilization: Classic to Postclassic. Albuquerque: University of New Mexico Press.
- SABLOFF, JEREMY A., AND WILLIAM L. RATHJE. 1975. Changing pre-Columbian commercial systems. Peabody Museum Monographs 3.
- SABLOFF, JEREMY A., AND GORDON R. WILLEY. 1967. The collapse of the Maya civilization in the southern lowlands: A consideration of history and process. Southwestern Journal of Anthropology 23:311-36.
- SAHLINS, MARSHALL D. 1961. The segmentary lineage: An organization of predatory expansion. *American Anthropologist* 63:322-45.
- SANDERS, WILLIAM T. 1989. "Household, lineage, and state at eighth-century Copan, Honduras," in *The house of the Bacabs, Copan, Honduras*. Edited by D. Webster, pp. 89–105. Washington, D.C.: Dumbarton Oaks.
- ——. 1992. "Ranking and stratification in prehispanic Mesoamerica," in Mesoamerican elites: An archaeological perspective. Edited by D. Z. Chase and A. F. Chase, pp. 278–91. Norman: University of Oklahoma Press.
- SANDERS, WILLIAM T., JEFFERY PARSONS, AND ROBERT SANTLEY. 1979. The Basin of Mexico: Ecological processes in the evolution of civilization. New York: Academic Press.
- SANDERS, WILLIAM T., AND BARBARA J. PRICE. 1968. Mesoamerica: The evolution of a civilization. New York: Random House.
- SANDERS, WILLIAM T., AND DAVID L. WEBSTER. 1988. The Mesoamerican urban tradition. American Anthropologist 90:521-46.
- SCARBOROUGH, VERNON L. 1991. "Water management adaptations in nonindustrial complex societies: An archaeological perspective," in *Archaeological method and theory*. Edited by M. B. Schiffer, vol. 3, pp. 101-54. Tucson: University of Arizona.
- . 1993. "Economic aspects of water management in the prehispanic New World," in *Research in economic anthropology*, suppl. 7. Edited by Vernon L. Scarborough and Barry Isaac. Greenwich, Conn.: JAI Press.
- SCARBOROUGH, VERNON L., MATTHEW E. BECHTER, JEFFREY L. BAKER, GARRY HARRIS, AND FRED VALDEZ JR. 1995. Water and land at the ancient Maya community of La Milpa. Latin American Antiquity 6:98–119.
- SCHELE, LINDA. 1992. "The groups of the cross at Palenque," in Workbook for the 15th Hieroglyphic Workshop, pp. 188-210. Austin: Department of Art History, University of Texas.

- 1995. The wars of Pacal. Paper presented at the Primera Mesa Redonda de Palenque, Mexico, September.
- SCHELE, LINDA, AND DAVID FREIDEL. 1990. A forest of kings. New York: William Morrow.
- SCHELE, LINDA, AND PETER MATHEWS. 1991. "Royal visits and other intersite relationships among the Classic Maya," in Classic Maya political history: Hieroglyphs and archaeological evidence. Edited by T. P. Culbert, pp. 226-52. Cambridge: Cambridge University Press.
- SCHOLES, FRANCE V., AND ERIC S. THOMPSON. 1977. "The Francisco Pérez probanza of 1654–1656 and the matrícula of Tipu, Belize," in Anthropology and history in Yucatan. Edited by G. D. Jones, pp. 43–68. Austin: University of Texas Press.
- SCHORTMAN, EDWARD M. 1986. "Interaction between Maya and non-Maya along the Late Classic Southeast Maya periphery," in *The Southeast Maya periphery*. Edited by Patricia Urban and Edward Schortman, pp. 114-37. Austin: University of Texas Press. [AAD]
- SERVICE, ELMAN R. 1962. Primitive social organization. New York: Random House.
- ——. 1971. Cultural evolutionism: Theory and practice. New York: Holt, Rinehart and Winston.
- ------. 1978."Classical and modern theories of the origins of government," in *Origins of the state*. Edited by Ronald Cohen and Elman R. Service, pp. 21-34. Philadelphia: Institute for the Study of Human Issues.
- SHAFER, HARRY J., AND THOMAS R. HESTER. 1983. Ancient Maya chert workshops in northern Belize, Central America. American Antiquity 48:519-43.
- ——. 1986. Maya stone-tool craft specialization and production at Colha, Belize: Reply to Mallory. *American Antiquity* 51:158-66.
- SHARER, ROBERT J. 1993. "The social organization of the Late Classic Maya: Problems of definition and approaches," in Lowland Maya civilization in the eighth century A.D. Edited by J. A. Sabloff and J. S. Henderson, pp. 91–110. Washington, D. C.: Dumbarton Oaks.
- SINOPOLI, CARLA M. 1994. The archaeology of empires. Annual Review of Anthropology 23:159-80.
- SKINNER, G. WILLIAM. 1977. The city in Late Imperial China. Stanford: Stanford University Press.
- smith, Carol A. 1976. "Exchange systems and the spatial distribution of elites: The organization of stratification in agrarian societies," in *Regional analysis*, vol. 2, *Social systems*. Edited by C. A. Smith, pp. 309–74. New York: Academic Press.
- by C. A. Smith, pp. 309-74. New York: Academic Press. SMITH, MICHAEL E. 1994. "Social complexity in the Aztec countryside," in Archaeological views from the countryside: Village communities in early complex societies. Edited by G. M. Schwartz and S. E. Falconer, pp. 143-59. Washington, D.C.: Smithsonian Institution Press.
- smith, m. g. 1956. On segmentary lineage systems. Journal of the Royal Anthropological Institute 86:39-80.
- SMITH, ROBERT E. 1971. The pottery of Mayapan. 2 vols. Papers of the Peabody Museum 66.
- SOUTHALL, AIDAN W. 1956. Alur society: A study in process and types of domination. Cambridge: Heffer.
- ——. 1988. The segmentary state in Africa and Asia. Comparative Studies in Society and History 30:52-82.
- SPENCER, CHARLES S. 1990. On the tempo and mode of state formation: Neoevolutionism reconsidered. *Journal of Anthropological Archaeology* 9:1-30.
- STEIN, GIL. 1994. "Segmentary states and organizational variation in early complex societies: A rural perspective," in Archaeological views from the countryside: Village communities in early complex societies. Edited by G. M. Schwartz and S. E. Falconer, pp. 10–18. Washington, D.C.: Smithsonian Institution Press.
- STEPHENS, JOHN L. 1841. Incidents of travel in Central America, Chiapas, and Yucatan. 2 vols. New York: Harper.
- STUART, DAVID, AND STEPHEN HOUSTON. 1989. Maya writing. Scientific American 261(2):82-89. [AAD]

- -----. 1977. The galactic polity: The structure of traditional kingdoms in Southeast Asia. Annals of the New York Academy of Sciences 293:69-97.
- ——. 1985. Culture, thought, and social action. Cambridge: Harvard University Press.
- TEDLOCK, BARBARA. 1982. Time and the Highland Maya. Albuquerque: University of New Mexico Press.
- -----. 1989. Review of: Continuities in Highland Maya social organization: Ethnohistory in Sacapulas, by R. M. Hill II and John Monaghan (Philadelphia: University of Pennsylvania Press, 1987). American Anthropologist 91:498–99.
- ——. 1991. From participant observation to the observation of participation: The emergence of narrative ethnography. *Journal of Anthropological Research* 47:69–94.
- TEDLOCK, DENNIS. 1985. Popol Vuh: The Mayan book of the dawn of life. New York: Simon and Schuster.
- THOMPSON, EDWARD J. 1886. Archaeological research in Yucatan. Proceedings of the American Antiquarian Society 4:248-54.
- THOMPSON, J. ERIC S. 1927. The civilization of the Maya. Field Museum of Natural History Anthropology Leaflet 25.
- —. 1931. Archaeological investigations in the southern Cayo District, British Honduras. Field Museum of Natural History Anthropological Series 17(3), publ. 301.
- ——. 1954. The rise and fall of Maya civilization. Norman: University of Oklahoma Press.
- ——. 1977. "A proposal for constituting a Maya subgroup, cultural and linguistic, in the Peten and adjacent regions," in Anthropology and history in Yucatan. Edited by Grant D. Jones, pp. 3–42. Austin: University of Texas Press.
- TOTONICAPAN. 1953. Title of the Lords of Totonicapan. Translated by Delia Goetz and Dionisio José Chonay. Norman: University of Oklahoma Press.
- TOURTELLOT, GAIR, JEREMY A. SABLOFF, AND KELLI CAR-MEAN. 1992. "Will the real elites please stand up? An archaeological assessment of Maya elite behavior in the Terminal Classic period," in *Mesoamerican elites: An archaeological assessment*. Edited by D. Z. Chase and A. F. Chase, pp. 80–98. Norman: University of Oklahoma Press.
- TRIGGER, BRUCE G. 1991. Constraint and freedom: A new synthesis for archaeological explanation. *American Anthropologist* 93:551-69.
- TZUL, ALFONSO. 1993. After 100 years: The oral history and traditions of San Antonio, Cayo District, Belize. Belize: Maya Institute of Belize.
- UPHAM, STEADMAN. 1987. "A theoretical consideration of middle-range societies," in *Chiefdoms in the Americas*. Edited by R. D. Drennan and C. A. Uribe, pp. 345–68. Lanham, Md.: University Press of America.
- . 1990. "Analog or digital? Toward a generic framework for explaining the development of emergent political systems," in The evolution of political systems: Sociopolitics in small-scale sedentary societies. Edited by S. Upham, pp. 87–115. Cambridge: Cambridge University Press.
- VALDES, JUAN ANTONIO, AND ARTHUR DEMAREST. 1993. "Conclusiones generales de la temporada de campo de 1993," in Proyecto Arqueológico Regional Petexbatun: Informe preliminar, quinta temporada. Edited by Juan Antonio Valdes, Antonio Foias, Takeshi Inomata, Hector Escobedo, and Arthur Demarest, pp. 189–92. Guatemala: Instituto de Antropología e Historia de Guatemala. [AAD]
- VILLACANAS, BENITO DE, CA. 1692. Arte y vocabulario de la lengua cakchiquel. MS.
- VILLA ROJAS, ALFONSO. 1969. "The Maya of Yucatan," in Handbook of Middle American Indians. Edited by Robert Wauchope, vol. 7(1). Austin: University of Texas Press.
- VOGT, EVON Z. 1961. Some aspects of Zinacantan settlement

- pattern and ceremonial organization. Estudios de Cultura Maya 1:131-45.
- . 1969. Zinacantan: A Maya community in the highlands of Chiapas. Cambridge: Harvard University Press.
- ----. 1970. The Zinacantecos of Mexico: A modern Maya way of life. New York: Holt, Rinehart and Winston.
- WALLACE, DWIGHT T. 1977. "An intra-site locational analysis of Utatlan: The structure of an urban site," in Archaeology and ethnohistory of the Central Quiché. Edited by D. T. Wallace and R. M. Carmack, pp. 20-54. Institute for Mesoamerican Studies, State University of New York, Albany, publ. 1.
- WEBSTER, DAVID. 1993. "The study of Maya warfare: What it tells us about the Maya and what it tells us about Maya archaeology," in Lowland Maya civilization in the eighth century A.D. Edited by J. A. Sabloff and J. S. Henderson, pp. 415-44. Washington, D.C.: Dumbarton Oaks.
- WENKE, ROBERT J. 1990. 3d edition. Patterns in prehistory: Humankind's first three million years. New York: Oxford University Press.
- WILK, RICHARD. 1988. "Maya household organization: Evidence and analogies," in *Household and community in the Mesoamerican past*. Edited by R. Wilk and W. Ashmore, pp. 135-52. Albuquerque: University of New Mexico Press.
- WILLEY, GORDON R. 1956a. "Introduction," in Prehistoric settlement patterns in the Maya lowlands. Edited by G. R. Willey, pp. 1-2. Viking Fund Publication 23.
- 1956b. "Problems concerning prehistoric settlement patterns in the Maya lowlands," in *Prehistoric settlement patterns in the Maya lowlands*. Edited by G. R. Willey, pp. 104–14. Viking Fund Publication 23.
- WILLEY, GORDON R., WILLIAM R. BULLARD, AND JOHN B. GLASS. 1955. The Maya community of prehistoric times. Archaeology 8:18-25.
- WILLEY, GORDON R, AND JEREMY A. SABLOFF. 1993. 3d edition. A history of American archaeology. New York: W. H. Freeman.
- WILLEY, GORDON, R., A LEDYARD SMITH, GAIR TOURTEL-LOT, AND IAN GRAHAM. 1975. Excavations at Seibal, Peten, Guatemala: Introduction. Memoirs of the Peabody Museum of Archaeology and Ethnology 13 (1 and 2). [AAD]
- WITTFOGEL, KARL A. 1957. Oriental despotism. New Haven: Yale University Press.
- WOLF, ERIC. 1982. Europe and the people without history. Berkeley: University of California Press.
- XAJIL. 1953 (ca. 1715). Annals of the Cakchiquels (1493-1600). Translated by Adrian Recinos and Delia Goetz. Norman: University of Oklahoma Press.
- XIMENEZ, FRAY FRANCISCO. 1985. Primera parte del tesoro de las lenguas cakchiquel, quiché y zutuhil, en que las dichas lenguas se traducen a la nuestra española. Academia de Geografía e Historia de Guatemala, special publ. 30.
- xiu. n.d. [1557–1819]. Xiu chronicle. MS, Peabody Museum Library, Harvard University.
- YAX. 1989 (1562). "El título de Yax," in El título de Yax y otros documentos quichés de Totonicapan, Guatemala. Edited and translated by R. M. Carmack and J. L. Mondoch. México, D.F.: Centro de Estudios Mayas, Universidad Nacional Autónoma de México.
- YOFFEE, NORMAN. 1993. "Too many Maya chiefs? (or, Safe texts for the '90s)," in Archaeological theory: Who sets the agenda? Edited by Norman Yoffee and Andrew Sherratt. Cambridge: Cambridge University Press.
- ZUÑIGA, DIONYSIUS. ca. 1610. Diccionario pocomchicastellano y castellano-pocomchi de San Cristóbal Cahcoh. MS.