Some Postclassic Questions About The Classic Maya
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The Postclassic and Colonial texts of the "Books of Chilam Balam" tell us very little, or so I believe, about the Classic Maya directly. And that little, though very precious, is confined to brief passages in the first three Chronicles, and may have been reshaped to fit the mythological predilections of a later age. The Chronicles being much the best known passages of the Books to Mayanists (Barrera 1948; Roys 1935), and the events they chronicle being as much as a millennium removed from the composition of the surviving versions, I shall eschew here any attempt to interpret their direct relevance to Mayan Classic history in detail. While the Books do not give us direct answers to our questions about the Classic Maya, they do raise some interesting questions about Classic Maya culture to which archaeology, art history and epigraphy may eventually supply answers. It is the object of this paper to isolate some of these questions, primarily social, calendrical and literary.

The basis of these queries is my recent translations of the Books of Tizimin (Edmonson n.d. a: completed) and Chumayel (Edmonson n.d. b: in draft). Largely on internal evidence, I conclude that the extant versions of these two Books date to the period between 1824 and 1837. Even if, as I believe, they contain passages transcribed from pre-Conquest glyphic texts, they are nonetheless separated from the end of the Classic period by nearly a thousand years. They present corresponding problems of interpretation before we use them in the reconstruction of earlier Mayan history.

The historiographic problem may be analogized to the difficulties of using modern ethnography to reconstruct the culture of the pre-Conquest Maya, and the method used here will consciously employ this analogy. Just as we must begin our reach back to the fifteenth century by subtracting Spanish culture from that of the modern Maya, so I consider that the attempt to reach back another five hundred years must start with the subtraction from Postclassic Mayan culture of identifiable Postclassic Mexican influences. Some part of the residue just might tell us something about the Maya tradition before the tenth century. The perils are obvious, but a good question, however arrived at, may sometimes be as valuable as a good answer. My questions concern the kinship system, the calendrical cycles (especially the may and the katun), and literary form.

KINSHIP

1. Did the Classic Maya have patrilineal descent groups? Although a number of modern Maya groups including the Lacandon (Rees 1977) clearly do, a number of others, including the Yucatecans (Holmes 1977) do not. In a number of instances the evidence points to a shift among the Maya peoples from patrilineages to the mixed system of bilateral and patrilineal kinship characteristic of the Spanish, or even to straight bilaterality. This cannot be altogether ascribed to Spanish influence, since the Mexica were also bilateral and were an important influence on the Maya during the Postclassic.

I dissent from the view expressed by Haviland (1968) following Murdock (1949) that the evolution of Mayan society proceeded from Hawaiian to Matri-Hawaiian to Patri-Hawaiian to Normal Guinea, as I dissent from Murdock's more general line of argument as being undemonstrated. I do agree with most of Haviland's other points, as will be seen.

The evidence of the Books of Chilam Balam points to the inference that the Postclassic Yucatecans, like the modern Lacandon, had a double descent system, at least in the upper
classes. But this could have been a consequence of five hundred years or more of bilateral Central Mexican influence interacting with a Mayan patrilineal system. Subtracting this Mexican influence, we would be left with patriliny. An important part of the documentation of such a system relates to the following questions.

2. Did the Classic Maya have preferential cross-cousin marriage? The modern Yucatecans do not, although the Lacandon do. The ethnohistoric evidence suggests that so did the fifteenth century Yucatecans, and there is sporadic occurrence of the custom among other Mayan groups, notably in Chiapas (Guiteras Holmes 1952). The documentation of the marriage system is neither direct nor clear in the Tizimin and Chumayel, but other dimensions of the system (naming, kinship terminology and politics) appear to point to double descent in the upper class (which is at least partly documented) and not necessarily in the lower class (which is not). Such a system is not directly referable to the Mexica but could easily be a consequence of trying to maintain status in both patriline and matriline and hence to justify nobility in terms that met at least in part the requirements of bilateral and patrilineal descent at once. Nobles were descendants of known ancestors in both the maternal and paternal lines (al mehenob). The same may have been true of the fifteenth century Quiche (al q'aholob). Close in-group marriage for the preservation of status might very well generate such a system within a restricted upper class even apart from foreign influences, and could have done so among the Classic Maya, producing a prescriptive marriage preference for the nobility and a broader latitude of choice among the more numerous peasantry.

3. Did the Classic Maya kinship terminology then reflect both patrilineage and double descent? That is what is indicated for the Postclassic, both in the Books of Chilam Balam and in the Motul dictionary (Eggan 1938). The question is of course in part linguistic, and will eventually require both reconstruction and a very difficult kind of epigraphic documentation. But despite the contradictions in the ethnohistorical sources (and they are many), it is difficult to avoid the conclusion that more than one terminological system was in use in the Post-classic, and perhaps in the Classic as well.

4. Did the Classic Maya have virilocal residence, and hence patri-compounds? Most modern Mayas are virilocal at least by village, and to a degree by barrio or vecindad, and the latter is also true of the modern Yucatec. Compounds are furthermore rather characteristic of central Mexico, including Tula (Healan 1977), though those of the Mexica were not patrilineally defined. House groups analogous to the vecindades in modern Yucatan were found at Tikal (Haviland 1970), but have not yet been generally documented for the Classic Maya. Nonetheless the evidence would lead us to expect virilocal residence. The ethnohistoric occurrence of bride price and bride service would lead us to expect uxori-virilocal residence, but that might be very difficult to document archaeologically.

5. Did the Classic Maya have patrilineal primogeniture in succession? Such a tendency is marked among the modern, Colonial and Postclassic Yucatecans as among Colonial Spaniards. It is not a feature of central Mexican society though it is of most Maya societies. On balance it would be a probable feature of Classic Maya society even if we had no Classic evidence (see Thompson n.d.). Such a rule may not have excluded the succession of women, as in Britain (see Ringle n.d.).

6. Did the Classic Maya have patrilineal primogeniture in inheritance? Land, houses and household furnishings are the principal forms of property in Middle America, but the sense in which they constitute "property" is subject to considerable variation. "Ownership" of land is often a matter of useright, sometimes under complex community control, while houses, household furnishings and tools are often individually owned. It is my impression that the Mayan groups tend rather generally towards patrilineal primogeniture with respect to land, houses and agricultural tools and matrilineal primogeniture with respect to household furnishings. Ultimogeniture is an important secondary mode and there are many, many exceptions. Central
Mexico has tended more towards bilateral equidistribution. In both areas these tendencies have been overlaid by Spanish testamentary distribution of property (well established among the Quiche by the eighteenth century), and by the complexities introduced by modern land reform laws, particularly the Mexican ejido (Shuman 1974). The Books of Chilam Balam indicate that inheritance was the primary way of acquiring land (an "orphan" is definitionally poor), but say nothing about other forms of property, nor about the inheritance rule. A weak case might be made for expecting patrilineal primogeniture among the Classic Maya.

7. Did the Classic Maya have patronymics? Naming customs may be employed, of course, to signal or emphasize the social groupings implied by the questions already raised, though obviously they don't have to be, and Middle American onomastics is notably complex and variable. The modern Yucatecans have surnames in the Spanish manner. The Postclassic Maya used both in Nahua and in Maya a matronym followed by a patronym, and both name groups appear to have implied exogamy. Given the questions already raised about patrilineage, double descent and cross-cousin marriage, the Classic Mayan naming system might give us a very useful clue to more fundamental features of the kinship system. Admittedly there could have been lineage or dynastic names not carved on monuments, just as Hanover does not normally appear on statues of Queen Victoria.

CALENDRICS

8. Did the Classic Maya have lords of the katun? Postclassic and Colonial Maya clearly did. They received the title Jaguar (Balam), or more rarely Lord Serpent (Ahau Can), both names referring to their robes of office, and were selected on a rotational basis from among the hereditary governors (hal ach uinic) of the thirteen most prominent cities among the 18 provincial capitals. Ostensibly the Classic Maya equivalent could have been lords of cities of the second rank, and their functions would have been different, since by Postclassic times the Jaguar was the supreme ruler of the entire country during his 20 tun term of office.

9. Did the Classic Maya have seats of the katun? The seat of the katun (hetz’ katun) was the real capital of the region in Postclassic and Colonial times. Though it only served for 20 tuns at a time, each city competed vigorously for the honor, since it conferred tribute rights and the right to confirm titles to land and public office throughout the region. While these rights must have belonged to ruling lords of major centers, there may nonetheless have been some ritual rotation of subsidiary responsibilities among the cities of the second rank. (See Appendix.)

10. Did Classic Mayan lords have Spokesmen (Chilam) of the katun? Again it is clear that the Postclassic and Colonial Maya did. So too did the Quiche and the Mexica, and the tradition has survived in Quintana Roo into modern times. The Yucatecan Spokesman also acted as the Great Sun Priest (ah noh kin) of the katun and Sun Priest of the Cycle (ah kin may); he was registrar of lands (ah p’iz te) and was responsible for the prophecy of the katun and the examinations of the officials. Obviously such functions must have been discharged by someone in Classic Mayan times, but not necessarily by a "Spokesman". If such a status existed in relationship to the rulership of major centers it should be iconographically visible; if it related to secondary centers it may be harder to document. I am inclined to guess that Spokesmen may be a Postclassic Mexican addition to Mayan culture.

11. Did the Classic Maya give special status to prophets (ah bobat) and hold councils of sages (ah miatz)? Councils of sages and prophets were held at Mayapan and Chichen Itza in 13 Ahau (1539) and at Merida in 7 Ahau (1579). Such councils were apparently called in times of crisis to resolve calendrical and religious issues, and one such may well have been responsible for the founding of the League of Mayapan in 2 Ahau (1263). They appear to have resembled the Vatican Councils in function, and they commanded enormous respect, representing in Colonial times the highest moral authority in the country. Such a body might for example have had a role in the investiture of the rulers in Classic times as well as later.
12. Did the Classic Maya have nicknames for the *katuns*? The Postclassic and Colonial Maya did, and related them closely to prophecy, history and religion. From the ethnohistoric texts, the significance of these names is far from clear, and it seems intrinsically unlikely in any case that they would remain unchanged over a period of several centuries, but the names themselves are strongly graphic, suggesting that some similar pattern might be iconographically or epigraphically identifiable: flower, wax, tobacco, deer, bird, black, flint, monkey, turtle. The possible significance of this seemingly minor point is related to the following question.

13. Did the Classic Maya have systematic *katun* prophecies? This question is not so simple minded as it sounds. All of nuclear Middle America used the 260 day *tzol kin* for prophecy. Most of it also had prophecies based upon the four year bearers and the 52 year calendar round (*kin tun y abil*). Only the Yucatecan Maya had *katun* prophecies. In Colonial times these were sometimes (but rarely) confused with calendar round prophecies, and additional cycles were introduced, notably the seven day week and the 24 year cycle. In the Postclassic there was no such confusion. The suggestion seems strong that the Classic Maya not only had the *katun* itself but also some significant cyclical prophecies relating to it. The ritual importance of the *katuns* is fully attested by *katun* ending monuments. Perhaps some of these contain texts with the curious blend of prophecy and history presented in the *Books* of Chilam Balam.

14. Did the Classic Maya recognize seats of the cycle (*may*)? The *Books* explicitly say they did. In the Post-classic and later the cycle seat (*may cu*) was the primate city of a region. It was not a capital in any normal sense, but rather a holy city, recognized by the title Born of Heaven (*ziyan can, can sih*), and notable for its sacred ceiba tree (*yax che*), its sacred grove (*tzucub te*), its sacred well (*ch'en*), and its plaza, which was the crossroads (*hol can be*) and navel of the world. In the Post-classic the seat of the cycle for the Itza, the "Well of the Cycle" or *Mayapan* from 1243 to 1752, was not even inhabited after 1452, but it continued to serve as a symbol of the religious authority of the *may* for another three hundred years. Perhaps the major centers of the Classic Maya were also seats of the cycle. (See Appendix.)

Like the *katun*, the *may* is uniquely Yucatecan in the ethnohistorical record, and it is known to be prominent among the Classic Maya, being usually identified as the "count" (*kahlay*) or "fold" (*uutz") of the *katuns*. What is at issue here is how the Classic Maya used it. It does not seem to me farfetched to suggest that the apogee of the Classic cities may have corresponded to counts of the *may*, as the following closely related question suggests. It would not be necessary to posit that all Classic cities operated on the same synchronized cycle. The Postclassic Xiu and Itza, for example, disagreed on when to begin and end the *may*.

15. Did the Classic Maya destroy their cities at the end of a cycle? The Postclassic Maya destroyed the primate city and its road at the end of the *may*. There are indications that this "destruction" may have been largely ritual and symbolic, and that the "abandonment" of the city was an evacuation by the ruling dynasty rather than total depopulation. But since the dynasties (e.g., the Xiu and the Itza) did not necessarily agree on the ending date of the cycle, there was room for maneuver in politics, ideology and warfare. The Post-classic theory did not end the legitimacy or existence of a dynasty, but only its right to rule a particular city. A somewhat irregular system of rotation appears to have operated, consonant with the generally cyclic Mayan world view.

Evidence of defacement of monuments is widespread in the Classic Mayan cities, and it seems possible that archaeological as well as epigraphic, calendrical or iconographic evidence might be adduced on this question. There is furthermore some evidence that the *may* was not only employed in Classic Tikal and Palenque but that it was defined like the Postclassic Xiu cycle as beginning in 6 *Ahau* and ending in 8 *Ahau*. This appears to be the periodicity of the dynasty that begins with Stormy Sky at Tikal and Lord "X" at Palenque, both initiated at the end of 8 *Ahau* in 9.0.0.0.0 (Thompson n.d. Ringle n.d.). Thompson (1965:353) notes an abrupt change in the style
of Tikal near 8 Ahau at 9.13.0.0.0. (See Appendix.)

16. Does the Classic Mayan cessation of building and erection of monuments correspond to a revolution in calendrical theory, or to the fulfillment of a cyclical prophecy? Major events of Postclassic and Colonial history can be shown to have a close link to the mystique of the katun and the may, including the founding and fall of Mayapan, the conversion of the Xiu, the Peten Itza and the northern Itza, and even the Caste War (Bricker n.d.; Edmonson 1976; Shuman n.d.). Again, it would not be necessary for the so-called Maya collapse to have occurred simultaneously in different places, for they may have been operating on different cycles even within a common calendar.

There would also appear to be a relationship between the major known changes in the calendar (Edmonson 1976) and important political events. The partial shift from the Tikal to the Campeche calendar in the Usumacinta valley and vicinity may have corresponded to the inauguration of the Postclassic. The shift to the Mayapan calendar in Yucatan in 1539 is startlingly congruent with the Spanish Conquest in that area. The shift to the Valladolid calendar in 1752 marks the final separation of the eastern Maya from their more acculturated western neighbors, and sets the stage for the Caste War. It is not necessary to exclude other causes to suppose that the ending of the Maya Classic may have been conditioned by cyclic prophecy: the Maya prophets were often subtle, percipient and realistic. But their prophecies have a way of being self-fulfilling as well, and the last known long-count date, from San Lorenzo, falls in 8 Ahau at 10.6.0.0.0, as does the earliest long-count date generally accepted as Mayan, that of the Tuxtla Satuette, in 8 Ahau at 8.7.0.0.0. Indeed, the pattern of Mayan history is strongly suggestive of a continuous tradition of major cultural and political changes at the recurrences of the folding of the may every time 8 Ahau comes around. (See Table I and Appendix.)

LITERATURE

17. Did the Classic Maya use parallelistic couplets? It now seems well established that they did. In a previous paper (Edmonson 1965) I suggested that the form might be related to the common occurrence of paired glyph blocks, but this no longer looks likely as a rule, even though it does occur. Despite criticisms and refinements of my argument (Edmonson 1971) that all formal Maya discourse is in parallelistic couplets, I remain persuaded that the exceptions to this rule are rare enough that it has positive utility in working out the syntactic and orthographic problems of Colonial texts, and I suspect that the same may ultimately prove true of the Classic inscriptions as well. The form is almost the definition of native "poetry" from the Rio Grande to Tierra del Fuego.

Table I
THE RECURRENCES OF 8 AHAU

| B.C. | A.D. | Notes |
|------|------|-------|
| 846  | 179  | 5.15.0.0.0 | ?Olmec Period, Early Formative |
| 590  | 435  | 6.8.0.0.0  | ?Middle Formative |
| 334  | 692  | 7.1.0.0.0  | ?Late Formative |
| 77   | 948  | 7.14.0.0.0 | ?Tres Zapotes seats the cycle |
|      | 1204 | 8.7.0.0.0  | ?Tuxtla and Tikal seat the cycle |
|      | 1461 | 9.0.0.0.0  | Tikal and Palenque seat the cycle |
|      | 1697 | 9.13.0.0.0 | Tikal, Palenque, Chichen Itza and Bacalar seat the cycle |
|      |      | 10.6.0.0.0 | Champuson and Chichen Itza seat the cycle; end of long-count monuments |
|      |      | 1204 | ?Mayapan seats the cycle |
|      |      | 1461 | Fall of Mayapan: ?Tayasal seats the cycle |
|      |      | 1697 | Conquest of the Peten Itza: ?Valladolid seats the cycle |
18. Did the Classic Maya use couplet kennings? Couplet kennings or disfrazismos are ubiquitous in Nahuatl poetry and in the supposedly prose texts of the Yucatecan Books as well. They are markedly rarer in the Popol Vuh, though they do occur. The device depends on the dialectic process of combining the elements of a dichotomy or other dyad to produce a third and esoteric meaning (e.g. rope and cord means war). I am inclined to think this particular form may have been introduced into Yucatan from central Mexico and hence may not occur among the Classic Maya, but the evidence is insufficient for a strong supposition. The presence of such a device in Classic period inscriptions could obviously materially affect their intelligibility, and particularly so in the context of the following question.

19. Did the Classic Maya share esoteric metaphors with their cultural descendants in Postclassic Yucatan? This is a complex problem, and particularly so in view of the historic time and linguistic distance between them. The most explicit data on Colonial metaphors of this type, which differ from the kennings in that they are not necessarily paired, are contained in the ritual riddles of the lords. Some of these riddles involve obvious Christian elements. They are also explicitly identified with Tula, being designated as "The Language of Zuyua". Nonetheless, the metaphoric usages of the Yucatecan Books generally attain the opacity of intentional obscurantism, and some of these might very well be present in Classic inscriptions.

The Colonial texts produce the impression that their obscurity may have been partially designed to keep Maya traditions from the Spanish. They were not at all intended to be secret from the Maya peasantry, who are frequently apostrophized directly. And there are even now in Quintana Roo Mayas who can read and understand them. It seems to me quite possible therefore that the glyphic texts of the Classic period could have contained a substantial esoteric and metaphoric element without necessarily impeding their intelligibility for the commoners and laymen to whom they must have been in part addressed. A certain deviousness and indirection may well be part of Mayan tradition. Flies are ancestors; the moon is the end; the sun is the beginning; stalks are lineages; monkeys are peasants.

20. Finally, did the Classic Maya conceive of and use writing itself the way the Postclassic Maya did? Did they write in steps (tz’acab) of glyphs? Did they write letters? Did they write their katun prophecies? Did they have public readings? Did they write prophecy (bobatil) in books (huunob) and memorials (natabal) on stone (tun)? Were the prophetic books kept locally? And on the other hand, were ritual, drama, prayer and song entirely confined to oral tradition? For the Postclassic Maya, the answers to all of these questions is yes.

The Postclassic codices certainly suggest that the Classic Maya had books of divination and astronomy, and it would be surprising if they had not had books of historical prophecy comparable to the Books of Chilam Balam as well. But the content of such works need not have been carved in stone, and perhaps it was not. It may well be that most of the genres of Classic Mayan literature are forever lost to us.

CONCLUSION

It is hard to imagine attempting to reconstruct the England of Beowulf from a collection of brief and esoteric prophecies composed by various hands from Chaucer's to Coleridge's and preserved only in a nineteenth century copy. Would we be trying to project backwards the later character of the English monarchy? The ideology of Christianity? The style of Medieval and Renaissance literature? Perhaps not. But if we concentrated on kinship, the calendar and really ubiquitous features of English poetry and writing we might not be too wide of the mark. Even so, we should be left feeling more than a little tentative about the attempt.

Only a sense of real pressure on the part of my Classicist colleagues induces me to speculate on possible points of similarity between the eighth century Mayas and their descendants of five hundred to a thousand years later. I can think of some questions of possible utility, but the answers will clearly have to come from the evidence of the Maya Classic itself. Once I saw that
I could not stop at thirteen such questions, I have aimed at twenty, in the belief that the Classic Maya would have approved.

**APPENDIX: POSSIBLE CLASSIC SEATING OF THE KATUN AND THE MAY**

The following table has been drawn up as a documentation and speculation in relation to the recurrence of the *may* cycle ending on 8 *Ahau katuns* and its possible relevance to the chronology of Maya history. As is summarized in Table I in the text, it is possible to consider eleven such cycles within the framework of Middle American prehistory, from the ninth century B.C. to the twentieth century A.D. The eleventh such cycle would be completed in 2016 A.D., according to the most recent Maya calendar reform, that of Valladolid.

It is of some interest that the first three of these cycles come within three *katuns* of accepted dates for the beginnings of the Olmec period, the Middle Formative and the Late Formative respectively, and that the earliest long-count dates of the next two cycles fall outside of Maya country as usually defined (Tres Zapotes, El Baul and Tuxtla).

By the end of the fifth cycle however (9.0.0.0.0), we have enough dated monuments from the Peten that it does not seem impossible to speculate on the seating of the *may* at Tikal (or by a dynasty that eventually came to Tikal) at the outset of that cycle.

By the sixth cycle (ending 9.13.0.0.0) we are on somewhat solid ground in supposing on the basis of dynastic genealogy that Palenque and Tikal were cycle seats, and on somewhat looser dating that Coba, Copan and Altar de Sacrificios could have been.

In the seventh cycle (ending 10.6.0.0.0) Palenque and Tikal probably started the cycle at least as seats of the *may*. Chichen Itza and Bacalar are explicitly identified as such in the Books of Chilam Balam, and Dzibilchaltun and Seibal appear to me to be likely. The last monumental long-count inscription ends this cycle.

Champoton and Chichen Itza are identified in the *Books* as the seats of the eighth cycle (ending 10.19.0.0.0), and it seems possible that Uxmal could have been a contender as well. The end of the cycle corresponds to the end of the Modified Florescent period.

Uxmal and Mayapan are given in the *Books* as the major cities of the ninth cycle (ending 11.12.0.0.0), though only Mayapan is identified as the cycle seat. The Chronicles date the founding of Uxmal and Mayapan to 11.2.0.0.0 rather than the expected date of 10.19.0.0.0. In any case this was the Decadent period, and the time of the League of Mayapan, which fell and was destroyed at the end of the cycle.

Despite its destruction and abandonment, Mayapan continued to be considered the seat of the tenth cycle, which should have ended in 12.5.0.0.0. Although the *Books* do not name it as a cycle seat, Tayasal almost certainly served in that capacity throughout the tenth cycle, and at the end of the cycle it was conquered at its own request. It seems possible to me that Tixchel could have served as cycle seat in the west, and Merida actually did so in the northwest, though it did not seat the cycle until the fifth *katun* and then only lasted for six *katuns* (11.16.0.0.0 to 12.2.0.0.0). Calendrical reasons relating to the Mayapan calendar reform of 1539 were involved (Edmonson 1976).

Zaci (Valladolid) was established as the sole seat of the eleventh cycle in 12.7.0.0.0, rather than in 12.5.0.0.0, as was to be expected. The reasons appear to have been calendrical, and have been detailed elsewhere (Edmonson 1976; n.d. a). In any case this coincided with the abandonment of the traditional *katun* of 20 tuns in favor of a new *katun* of 24 years (*haab*), and hence the final destruction of the long-count dating system (which had been in disuse since 10.6.0.0.0 anyway). Valladolid seated its last *katun* at Coba in 1800 A.D.

It seems clear that the mystique of the *may* must have dominated a substantial period of Mayan history. In order to scan the data for possible *katun* seats, I have entered in the Table the known seats of the *katuns* from the *Books* of Chilam Balam, from Otzmal (seated in 1401) to Coba (seated in 1800). I have then added the monumentally dated archaeological sites, from Tres
Zapotes (which could have been seated in 38 B.C.) to San Lorenzo (which could have been seated in 928 A.D.). I have also included a few northern sites that are not monumentally dated (Balankanche, Ikil, Uxmal, Xcaret), and two early radiocarbon dated sites (Kaminaljuyu and La Venta). All of these additional sites appear in parentheses. The archaeological sites are listed in the Table by their earliest known dates. They could possibly have served as seats of the katun any time thereafter. The span of dates from particular sites will be found in the following Index together with source citations.

Somewhat arbitrarily I have divided the Maya area into six geographic regions which appear to correspond at least roughly to the number and location of the cities important enough to have served as seats of the cycle. Finer subdivisions could be made and perhaps should be, particularly in the Puuc, Chenes, Rio Bec, Usumacinta and Western areas. No real conclusions can be drawn from the site listings except perhaps to note that there appear to be about enough dated secondary sites in each area to suggest the possibility of a rotational system of katun seats from at least the fifth century A.D. on.

| PRECLASSIC  | (All dates are to present katun ending) | B.C. | AHAU | L.C. | WEST | NORTHWEST | NORTHEAST | SOUTH | CENTER SOUTH |
|-------------|----------------------------------------|------|------|------|------|-----------|-----------|-------|--------------|
|             |                                        | 590  | 8    | 6.8  |      |           |           |       |              |
|             |                                        |      |      |      |      |           |           |       | END OF CYCLE 1 |
|             |                                        | 570  | 6    | 6.9  | (La Venta) |           |           |       |              |
|             |                                        | 551  | 4    | 6.10 | (Middle Formative) |           |           |       |              |
|             |                                        | 531  | 2    | 6.11 |      |           |           |       |              |
|             |                                        | 511  | 13   | 6.12 |      |           |           |       |              |
|             |                                        | 492  | 11   | 6.13 |      |           |           |       |              |
|             |                                        | 472  | 9    | 6.14 |      |           |           |       |              |
|             |                                        | 452  | 7    | 6.15 |      |           |           |       |              |
|             |                                        | 432  | 5    | 6.16 |      |           |           |       |              |
|             |                                        | 413  | 3    | 6.17 |      |           |           |       |              |
|             |                                        | 393  | 1    | 6.18 |      |           |           |       |              |
|             |                                        | 373  | 13   | 6.19 | (Late Pre classic) |           |           |       |              |
|             |                                        | 354  | 10   | 7.0  |      |           |           |       |              |
|             |                                        | 334  | 8    | 7.1  |      |           |           |       | END OF CYCLE 2 |
|             |                                        | 314  | 6    | 7.2  | KAMINAL.? |           |           |       |              |
|             |                                        | 294  | 4    | 7.3  | (Late Formative) |           |           |       |              |
|             |                                        | 275  | 2    | 7.4  |      |           |           |       |              |
|             |                                        | 255  | 13   | 7.5  |      |           |           |       |              |
|             |                                        | 235  | 11   | 7.6  |      |           |           |       |              |
|             |                                        | 215  | 9    | 7.7  |      |           |           |       |              |
|             |                                        | 196  | 7    | 7.8  |      |           |           |       |              |
|             |                                        | 176  | 5    | 7.9  |      |           |           |       |              |
|             |                                        | 156  | 3    | 7.10 |      |           |           |       |              |
|             |                                        | 137  | 1    | 7.11 |      |           |           |       |              |
|             |                                        | 117  | 12   | 7.12 |      |           |           |       |              |
|             |                                        | 97   | 10   | 7.13 |      |           |           |       |              |
|             |                                        | 77   | 8    | 7.14 |      |           |           |       | END OF CYCLE 3 |
|             |                                        | 58   | 6    | 7.15 | TRES ZAP.? |           |           |       |              |
|             |                                        | 38   | 4    | 7.16 |      |           |           |       |              |
|             |                                        | 18   | 2    | 7.17 | Tres Zap. |           |           |       |              |

8
| A.D. | # |  |   |   |   |  |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1    | 13| 7.18 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 21   | 11| 7.19 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 41   | 9 | 8.0  | Baul |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 61   | 7 | 8.1  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 80   | 5 | 8.2  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 100  | 3 | 8.3  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 120  | 1 | 8.4  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 139  | 12| 8.5  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 159  | 10| 8.6  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 179  | 8 | 8.7  | END OF CYCLE 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 199  | 6 | 8.8  | Tuxtla? | TIKAL? |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 219  | 4 | 8.9  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 238  | 2 | 8.10 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 258  | 13| 8.11 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 278  | 11| 8.12 | (Early Classic) |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 297  | 9 | 8.13 | Tikal |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 317  | 7 | 8.14 | (Early I) | Leyden |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 337  | 5 | 8.15 | Uaxactun |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 357  | 3 | 8.16 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 376  | 1 | 8.17 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 396  | 12| 8.18 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 416  | 10| 8.19 | Balakbal* |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 435  | 8 | 9.0  | END OF CYCLE 5 | Zapote |   |   |   |   |   |   |   |   |   |   |   |   |
| 455  | 6 | 9.1  | Palenque COBA? | Copan | TIKAL | ALTAR? |   |   |   |   |   |   |   |   |   |   |
| 475  | 4 | 9.2  | Cerro Oskintok | Copan |   | Altar |   |   |   |   |   |   |   |   |   |   |
| 495  | 2 | 9.3  | Tonina |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 514  | 13| 9.4  | Piedras N. | Xultun | Yaxchilan |   |   |   |   |   |   |   |   |   |   |
| 534  | 11| 9.5  |   |   | Naachtun |   |   |   |   |   |   |   |   |   |   |
| 554  | 9 | 9.6  | Tulum | Pusilha | Naranjo |   |   |   |   |   |   |   |   |   |   |
| 573  | 7 | 9.7  | (Uxmal) |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 593  | 5 | 9.8  | Chinkultic (Early II) | Ichpaatun (Late Classic) | Bonampak |   |   |   |   |   |   |   |   |   |   |
| 613  | 3 | 9.9  |   |   | Uxul* |   |   |   |   |   |   |   |   |   |   |
| 633  | 1 | 9.10 | Tortuguro | Tzibanche | Calakmul |   |   |   |   |   |   |   |   |   |   |
| 652  | 12| 9.11 | Jaina | Coba |   |   |   |   |   |   |   |   |   |   |   |
| 672  | 10 | 9.12 | Etzna |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 692  | 8 | 9.13 | Tila* | END OF CYCLE 6 | Pomona |   |   |   |   |   |   |   |   |   |   |
| 711  | 6 | 9.14 | Palenque* | Dzib.? | Chichen | Bacalar | TIKAL | Seibal* |   |   |   |   |   |   |   |   |
| 731  | 4 | 9.15 | Florida (Ikil) |   | Xamantan* | Polol |   |   |   |   |   |   |   |   |   |   |
| 751  | 2 | 9.16 | Xtampak* |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 771  | 13| 9.17 | Mar | Nakum | Amelia | Higos* | Ixkun* | Tayasal* |   |   |   |   |   |   |   |   |
| 790  | 11| 9.18 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 810  | 9 | 9.19 | Xkalumkin |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 830  | 7 | 10.0 | (Modified Florescent) | (Early Postclassic) |   |   |   |   |   |   |   |   |   |   |   |   |
| 849  | 5 | 10.1 | Dzib. |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 869  | 3 | 10.2 | (Balankan.) |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 889  | 1 | 10.3 | Comitan* |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 909  | 12| 10.4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 928  | 10| 10.5 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 948  | 8 | 10.6 | END OF CYCLE 7 | S. Lorenzo? |   |   |   |   |   |   |   |   |   |   |   |   |

* et al.; see Index.
### POSTCLASSIC

| A.D. | AHAU | L.C. |
|------|------|------|
| 968  | 6    | 10.7 |
| 987  | 4    | 10.8 |
| 1007 | 2    | 10.9 |
| 1027 | 13   | 10.10 | (Modified Florescent) |
| 1047 | 11   | 10.11 |
| 1066 | 9    | 10.12 |
| 1086 | 7    | 10.13 |
| 1106 | 5    | 10.14 |
| 1125 | 3    | 10.15 |
| 1145 | 1    | 10.16 |
| 1165 | 12   | 10.17 |
| 1185 | 10   | 10.18 |
| 1204 | 8    | 10.19 | END OF CYCLE 8 |
| 1224 | 6    | 11.0 | (Decadent) |
| 1244 | 4    | 11.1 |
| 1263 | 2    | 11.2 | Uxmal MAYAPAN |
| 1283 | 13   | 11.3 | (Xcaret) |
| 1303 | 11   | 11.4 | (Dzib.) (Late Postclassic) |
| 1323 | 9    | 11.5 |
| 1342 | 7    | 11.6 |
| 1362 | 5    | 11.7 | (Carib Invasion?) |
| 1382 | 3    | 11.8 |
| 1401 | 1    | 11.9 |
| 1421 | 12   | 11.10 | Otzmal |
| 1441 | 10   | 11.11 | Sisal |
| 1461 | 8    | 11.12 | Izamal* Chichen | END OF CYCLE 9 |
| 1480 | 6    | 11.13 | TIXCHEL? Uxmal* Chichen TAYASAL |
| 1500 | 4    | 11.14 | Ati Kuh Chichen |
| 1520 | 2    | 11.15 | Chacal Na Tihosuco |
| 1539 | 13   | 11.16 | Euan Coba |

### COLONIAL

| A.D. | AHAU | L.C. |
|------|------|------|
| 1539 | 11   | 11.17 | MERIDA* Emal |
| 1559 | 9    | 11.18 | Merida Taebo |
| 1579 | 7    | 11.19 | Merida Mayapan |
| 1599 | 5    | 12.0 | Merida Zotz'il |
| 1618 | 3    | 12.1 | Merida Zuyua |
| 1638 | 1    | 12.2 | Merida Emal |
| 1658 | 12   | 12.3 | Zaci |
| 1677 | 10   | 12.4 | Chab Le* |
| 1697 | 8    | 12.5 | END OF CYCLE 10 Chab Le Conquest |
| 1717 | 6    | 12.6 | Teabo* |
| 1737 | 4    | 12.7 | ZACI* |
| 1776 | 2    | 12.8 | Zaci |
| 1800 | 13   | 12.9 | Coba |
| 1824 | 11   | 12.10 | (Tizimin) |
| 1848 | 9    | 12.11 | (Sta. Cruz) |
| 1872 | 7    | 12.12 |
| 1896 | 5    | 12.13 |
| 1920 | 3    | 12.14 |
| 1944 | 1    | 12.15 |
| 1968 | 12   | 12.16 |

*et al.: see Index
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Except as noted, the data below are drawn from Morley 1946:65ff. Cities listed in capitals are possible seats of the cycle. The others are possible seats of the katun. Each archaeological site is listed by its earliest date; latest dates will be found in the alphabetical Index that follows. Data for the Postclassic and Colonial periods are from the Books of Chilam Balam except as noted. Archaeological chronology for the Yucatan area is drawn from Andrews V 1975, and for the Southern Lowlands from Willey et al. 1964.

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La Esperanza 9.8
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Holactun 9.16 (see Xtampak)
La Honradez 9.15 - 9.19 (see Xamantun)
Hunac Thi 11.13 seat of the katun (Chilam Balam)
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Ikil 9.15? (Andrews IV 1968)
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Part of the problem might have been that we were asking new questions about the Maya collapse, but our attempts to answer them were bound to outmoded concepts that no longer yield useful insights and explanations. Here we introduce the contributions to this volume by revisiting some of these time-honored concepts, like "collapse," that have guided thinking over the decades. Some scholars here still think in terms of a general collapse of Classic Maya civilization and of one or two "global" causes of this alleged cataclysm. The Classic Maya. Discussion in 'Civ3 - Completed Scenarios' started by The Last Conformist, Aug 3, 2005. Page 1 of 20. The tech tree includes plenty of Preclassic and some Postclassic stuff; the reason is simply that otherwise it's impossible to make a tree with much worthwhile to research. The improvement in unit abilities is pretty much fictional in any case; there was little or no technological improvements to war-making from very early on till the Spanish arrival. Some postclassic questions about the Classic Maya. In M. G. Robertson & D. C. Jeffers (Eds.), Tercera mesa redonda de palenque vol. 4, pp. 9â€“18. Palenque, Chiapas, Mexico: Pre-Columbian Art Research Institute. Ceramic exchange in the Late Classic and Postclassic Maya lowlands: A diachronic approach. In M. A. Masson & D. A. Freidel (Eds.), Ancient Maya political economies, pp. 140â€“196. Walnut Creek, CA: AltaMira.