Abstract:
The archaeological analysis of territory, boundaries, and networks in empires and polities faces two hurdles. First, the conjunction of preservation, data recovery and analysis required for rigorous reconstructions is all too rare archaeologically. Second, the archaeology of political organization took a postmodern turn in the 1990s, inhibiting quantification, measurement, and the rigorous bounding of ancient networks and polities. Nevertheless, archaeologists have developed a small toolkit to answer two key questions: Was there an empire here? and, How was it bounded? I review the relevant methods and discuss a series of empirical and conceptual caveats and complications.

The use of archaeological data to analyze territory, boundaries and networks in empires and polities faces two major hurdles, one empirical and the other conceptual and disciplinary. The empirical hurdle consists of the rarity of cases where sufficient high-quality archaeological data can be assembled to reconstruct boundaries and territory in the deep past. Like many social dynamics that archaeologists may want to analyze—from social inequality to ritual processes to kingship—the study of empires and territorial processes are most amenable to rigorous archaeological analysis when there is a favorable conjunction of preservation, sampling, field recovery, analytical methods, and research design. For some empires, in some time periods, archaeologists can reconstruct provincial dynamics in considerable detail, while in other cases little can be done.

The conceptual / disciplinary hurdle refers to the intellectual development of imperial studies in archaeology. After a heyday of methodological and conceptual work in the 1980s and 1990s, major segments of the archaeology of complex societies took a postmodern turn, from which it has yet to recover. Whereas previously archaeologists had struggled with ways to bound and reconstruct empires, in recent decades such studies have been replaced with poststructural and postcolonial research that avoids territorial reconstruction or measurement. Unfortunately, the idea of using archaeological data to map the extent of an ancient empire is considered silly and outdated by many archaeologists today.

My goal in this paper is to discuss the accomplishments and potential of archaeological research on bounding empires and polities. After a brief review of the history of research on this topic, I discuss methodological work aimed at answering two key questions: Was there an empire here? and, How was it bounded? I then explore some of the complications that affect research on these questions.

The Archaeology of Imperialism: Steps Forward, Steps Back

Prior to about 1980, archaeologists in many regions assumed that the spatial distribution of certain types of material culture could be used to trace the extent of empires (e.g., Bernal 1966). This work was most common in the provinces of historically attested expansionist
empires. Fieldwork in provincial settings—starting in the 1980s—showed the inadequacy of this assumption. For example, many archaeologists had assumed that the distribution of Aztec III black-on-orange ceramics was a marker of the extent of Aztec imperial expansion, at least within central Mexico. When I was first able to distinguish the pre-imperial and post-imperial intervals at Aztec-period sites the Mexican state of Morelos (in the 1980s), it became clear that this pottery type was abundant both before and after imperial expansion. It had spread through commercial exchange networks that were only indirectly linked to imperial dynamics (M.E. Smith 1987). Although arguments about whether pottery types or styles could be used as indicators of imperial presence continued in Mesoamerica and elsewhere (e.g., Levine 2013), most archaeologists moved on to more complex analyses.

The adoption of explicit models of empires (Doyle 1986; Luttwak 1976) and world systems (Chase-Dunn and Hall 1997) from other disciplines helped move the archaeological study of empires forward in the 1980s and 1990s. Also contributing to advances were the increasing numbers of fieldwork projects that used these models to gather relevant field data (Alcock 1993; Alcock et al. 2001; Cherry 1992; Dyson 1985; Sinopoli 2001). The major methodological works I discuss below (Cherry 1987; Matthews 2003; M.E. Smith and Montiel 2001; Stark 1990) were all published in this interval or shortly after.

The penetration of postmodern ideas and approaches into archaeology, beginning in the 1980s, had a chilling effect on research to identify the existence and extent of polities with archaeological data. Instead, scholarship on political topics began to focus on the aesthetics of political performance, hegemony, identity, and postcolonial entanglements (Inomata 2006; Routledge 2013; A.T. Smith 2003, 2011; Van Dommelen 2011). This trend—with its tendency to avoid measurement, quantification, and rigorous argumentation (M.E. Smith 2015)—continues to be popular with many archaeologists working on states and empires (Joyce and Barber 2015; Monroe 2013).

A common ploy by archaeologists pursuing this line of scholarship is to claim that prior materials-based analyses of provincial conditions (using imperial or world-systems models) are guilty of portraying a “passive periphery.” They counter this with their own purportedly superior analysis of “active agency” by provincial peoples (Gosden 2001; Stein 2002:905-07). This critique is a red herring; it does not accurately portray the work being criticized (see M.E. Smith 2004:88-89) and it serves mainly as a device to dismiss materialist analyses in favor of postmodern-derived idealistic accounts. For scholars in this camp, tasks such as the identification of the spatial extent or chronology of imperial expansion are evidently seen as prosaic and uninteresting.

Separate from the postmodern work, scholarly trends in the social and historical sciences conspired in another way to hinder work on the spatial extent of empires. Spatial metaphors for states and empires in the form of filled-in boxes of territory gradually gave way to more fluid network designs. In the words of Monica Smith (2005:832), “Archaeological and textual evidence suggests that ancient states are better understood through network models rather than bounded-territory models.” Similar ideas were expressed by other scholars (e.g., Berman 2005; Chase-Dunn and Hall 1997:52; Glatz 2009). While this has been a step forward (a positive change) for most purposes, it has also signaled a step backwards in the ability to use the spatial distributions of material objects as markers for the extent of past polities. The challenge is now to find ways to integrate the generally more productive network model for polities with the use of material culture distributions to reconstruct past states and empires.
Question 1: Was There an Empire Here?

The task of identifying the existence of an ancient empire illustrates some of the difficulties of reconstructing ancient socio-political dynamics with archaeological data. Archaeologists typically have data on the large-scale spatial distributions of material objects, styles, and symbols. How can we move from these data to realistic models of past institutions and practices? The most rigorous procedure is to derive a series of explicit alternative material or artifactual expectations for likely processes and practices, and then evaluate the data against these material culture models. Such models are based on a combination of comparative data—from history, anthropology, and other disciplines—and theoretical concepts. I discuss this process further, with respect to determining the nature of the relationship between Tula and Chichen Itza, in Smith (2007:595-96).

For the task at hand—identifying the presence of an empire or expansionistic state—I present three schemes that have proven useful to archaeologists (Tables 1-3). As part of a paper on the relationship of the large city Teotihuacan to distant polities along Mexico’s Gulf Coast, Barbara Stark (1990) presented a list of alternative processes that might have been operating (Table 1), and she discusses the material implications of each process. The methodological difficulty of using lists like this to reconstruct past political patterns is that most of these alternatives require fairly rich and well-dated archaeological data to distinguish. But without such lists, some archaeologists have resorted to impressionistic and non-empirical social reconstructions; for discussion see Smith (2007).

In 2001 Lisa Montiel and I presented a material-culture model for identifying the presence of an empire (M.E. Smith and Montiel 2001), based on Michael Doyle’s (1986) analytical framework (Figure 1); see Table 2. Our immediate objective was to evaluate the reality of proposed empires—using archaeological data—ruled by Teotihuacan and Tula in central Mexico. We calibrated the model with the Aztec empire, whose distribution was well established with historical documentation (Berdan et al. 1996). We concluded that Teotihuacan had likely ruled an empire, but Tula had not. Shortly after, Roger Matthews (2003) criticized our scheme and published a similar material-culture model, designed for use with ancient Near Eastern empires (Table 3).

With explicit material-culture models and relatively rich archaeological data from a number of sites, it is usually possible to determine whether an empire existed, and whether it had conquered or incorporated a particular peripheral area. The ease of identification depends greatly on the nature of the empire; direct-rule empires, for example, are much easier to identify and map than are indirect-control empires (see discussion below, under “Complications”).

Question 2: How was it Bounded?

One of the fundamental problems in the archaeological study of borders and boundaries is chronological in nature. Archaeological chronologies may not be sufficiently fine-trained to track sociopolitical changes that may occur on a more rapid scale (M.E. Smith 1992). Imperial boundaries are often dynamic on a scale of years or decades, while archaeological time-periods may last for a century or more. The most successful studies of imperial boundaries are those that juxtapose several classes of evidence to reconstruct spatial patterns (see discussion below).

The best discussion of methods for reconstructing the borders and extent of ancient states is a chapter in an obscure volume from the 1980s (Cherry 1987). Here I update John Cherry’s discussion and group the methods he covers into three categories: epigraphic evidence, linear methods, and spatial methods. While many archaeological studies of specific regions or cases
employ one or more of these methods (e.g., Parker 2002), few such studies step back to
generalize or to establish broader methodological guidelines.

**Epigraphy**

Cherry discusses epigraphic evidence—inscriptions on stone and other media, whether
expressed in a written language or as symbols—in terms of their role in legitimizing state power
(Cherry 1987:168ff). But inscriptions can also be used to reconstruct the spatial extent of
polities. One of the clearest examples is the Stela of the Vultures, a monument that served as a
boundary marker between the polities of Lagash and Umma in the Early Dynastic III period of
ancient Mesopotamia (Winter 1985). Beyond Mesopotamia, the “boundary stela” was a common
form of ancient monument in ancient Egypt and among the Classic Maya. In the complex
political landscape of the Classic Maya city-states, stone inscriptions not only reveal the relative
power of kings (Martin and Grube 2000), but they also can be used to map out interactions
among polities and even the extent of territories (Munson and Macri 2009).

In other cases, such as the Aztec empire, the styles and symbols of inscriptions (including
both stone reliefs and mural paintings) map onto information networks (in the language of
Chase-Dunn and Hall 1997) far more closely than they mark political-military networks. Authors
in the volume *The Postclassic Mesoamerican World* (M.E. Smith and Berdan 2003) describe a
modified world-systems approach that actively incorporates the transmission of symbols and
styles as important world-system dynamics (Boone and Smith 2003; M.E. Smith 2003).
Nevertheless Umberger (2002) shows how key messages of imperial ideology and policy were
mapped onto the imperial landscape in the outer provinces of the Aztec empire.

**Linear artifact distributions**

One method outlined by Cherry (1987) for reconstructing borders and boundaries is the
graphing of quantitative artifact distributions along transects between production or distribution
centers (Figure 2). This method was pioneered in the archaeology of the Roman ceramic
distribution in Britain (Hodder and Orton 1976), a setting with relatively rich artifact data.
Although it should be possible in theory to distinguish commercial exchange that crosses
political borders from exchange that is reduced or constrained by borders (Figure 2, a and b), in
fact the actual distributions are frequently messy and unclear, as Cherry notes (p. 156).

Better results might be expected with portable artifacts that have some kind of symbolic
value or a particular association with a polity or its capital. The spatial distribution of coins
(Collis 1981), for example, might mark the extent of a polity, as might items like ritual objects
for a local or regional cult. Unfortunately, the promising work of the 1970s on using linear
distributions to infer polity extent or borders was largely abandoned in subsequent decades.

**Spatial site distributions**

This category describes approaches that analyze the spatial distribution of settlements on
the landscape (as contrasted with the linear distributions of particular artifact classes discussed
above). The use of Thiessen polygons (or Voroni diagrams) to estimate ancient polities has a
long history in archaeology (Renfrew and Cherry 1986; Wheatley and Gillings 2002). In an
influential advance over this approach, Renfrew and Level (1979) developed the “x-tent” model
that allows the territory of a larger center to encompass or include that of smaller centers (Figure
3). The slope of the power fall-off line determines whether the model will produce a few large
polities or many small polities for a given landscape. This method has been used sporadically but
fruitfully to model polities in a number of areas (Hare 2004; Redhouse and Stoddart 2011; Stoner
2012).
A common spatial distribution pattern shows open areas ("no-man’s land") with little settlement between warring or hostile polities. These can be analyzed with simple cartographic inspection. For example, I have discussed a large open area between the hostile Aztec and Tarascan empires (M.E. Smith 1996). More sophisticated spatial methods, using nearest-neighbor analysis, cost-distance measures, and other techniques, are becoming common (Hare 2004). The most effective studies combine several spatial methods and integrate site location data with artifact distributions to produce composite models of polity distributions (Bevan 2010; Stoner 2012). These methods can only be used, however, in areas that have seen both regional site survey and excavation- or surface-based artifact collections.

Complications

A variety of features of polities and political dynamics can complicate analyses of borders and territory in the past, beyond the chronological and other issues reviewed above. I will discuss five such features: city-state cultures; non-territorial polities; and direct- vs. indirect-control empires; provincial strategies; and autocratic vs. collective regimes. The complications are of two types: complications in the organization and operation of large-scale polities or networks (Chase-Dunn and Hall 1997:52-55), and complications in the ways that the distributions of material goods and styles map onto these networks.

City-State Cultures

Mogens Hansen defines city-state cultures as regional landscapes that are unified by language and culture yet divided into numerous small polities, or city-states (Hansen 2000b), and his edited volumes reveal a widespread distribution of this political form (Hansen 2000a, 2002). The individual polities typically interact intensively with one another in trade, diplomacy, and warfare. City-state cultures do not fit well in the nesting networks scheme of Chase-Dunn and Hall (1997) because the bulk-goods network—the entire city-state culture—is larger than the political/military network.

More to the point for this paper, however, is the fact that in a city-state culture, material culture items rarely map onto polities. Instead, the relevant distributions and styles usually coincide with the (typically fuzzy) boundaries of the culture (M.E. Smith 2000).

Non-Territorial Polities

In the modern world and in many ancient societies, polities are defined territorially. That is, the extent of the polity is signaled by the extent of the bounded land or territory pertaining to the polity, and that territory is actively defended against outsiders. But despite claims that this kind of territoriality is a universal feature of state systems (Grosby 1995; Mann 1986:37), there are in fact systems in which the political affiliation of individuals and households is determined by personal ties to a ruler rather than by residence location. The theoretical literature on non-territorial polities is scattered among a number of disciplines (e.g., Barth 2000; Berman 2005; Ferguson and Mansbach 1996:34; A.T. Smith 2003:153-54).

One of the most elegant and useful models of human territoriality comes from the field of behavioral ecology. Dyson-Hudson and Smith (1978) ask why territory is actively marked and defended in some societies and not in others. Their model (Figure 4) invokes two variables. Territorial behavior is most likely where resources are both abundant (a high resource density) and predictable. This model explains variation in territorial behavior in a range of human societies. For the present topic, unless needed resources are very densely distributed, very small polities (e.g., city-states) may not encompass enough required resources to create a situation where strongly defended territory is warranted. If this is the case, then individuals may be gather
resources near their home community but their ranges may overlap with those of other polities. This is called a home-range system: organisms spend much of their time in a specific local area, but the land is not actively defended against conspecifics (see also Bintliff 1999).

A well-known empirical case of non-territorial polities is the distribution of farming hamlets subject to three Aztec city-state kings in the Teotihuacan Valley (Figure 5); a case I discuss elsewhere, with comparative data (M.E. Smith 2008; Tomaszewski and Smith 2011). When non-territorial polities are situated within a city-state culture—as in this Aztec example—they present the same difficulty for archaeological territorial reconstruction as described above for city-state cultures: the relevant material-culture distributions are larger than the individual polity. If they are not part of a city-state culture, then even cases where material-culture distributions or styles map onto polities will present equivocal archaeological results. The association (or lack thereof) between non-territorial polities and city-state cultures has not been analyzed, to my knowledge.

**Direct vs. Indirect Control Empires**

Archaeologists have long discussed the concepts of direct- and indirect-control empires, although using the labels territorial and hegemonic for these forms (Alcock et al. 2001; Berdan et al. 1996; Hassig 1985). New research by political scientists have furnished a better understanding of these political forms (Gerring et al. 2011; Naseemullah and Staniland 2016; Siroky et al. 2013); this work provides models that work well for ancient empires. These two types of empires have radically different expressions in the archaeological record. In short, indirect-control empires, with their much lower imperial presence in provincial areas compared to direct-control polities, yield much lower levels of imperial material culture items and styles, particularly in the realm of architecture.

A brief comparison between the Aztec (indirect-control) and Inka (direct-control) empires illustrates this point. For the Aztec case see: (Berdan et al. 1996; Sergheraert 2009; M.E. Smith 2008); for the Inka case: (D'Altroy 1992; Gasparini and Margolies 1980; Hyslop 1990; Shimada 2015). Considering architecture first, civic buildings in “imperial” styles were built in both the Inka and Aztec provinces. While the pattern can superficially appear similar, in fact the dynamics were quite different. The Inka empire had a standard suite of building-types and architectural styles and techniques, and architecture was part of the overall strategy of imperial expansion and consolidation. As a result, the distribution of these elements maps rather precisely onto the spatial extent of this direct-rule empire. In the Aztec case, the “Aztec” architectural style consisted of buildings and techniques that originated and spread throughout Aztec city-state culture and beyond, long before the formation of the empire. The twin-temple pyramid of Teopanzolco (in Cuernavaca), described in guidebooks as a copy of the Templo Mayor of Tenochtitlan, was in fact built prior to the foundation of the imperial capital! (M.E. Smith 2008). When this indirect-control empire conquered provincial city-states, it did not found cities or construct buildings.

The situation for portable artifacts is less clear than architecture, but still presents a contrast between the two empires. In this case, the extreme differences in economic systems also contributed to the divergent artifactual distributions. The Aztecs had a commercial economy with money, markets, and professional merchants, whereas the Inka had a command economy that lacked these and other commercial institutions. Ceramic pots produced in and near the Aztec capital Tenochtitlan had a wide distribution in central Mexico, but as noted above these products were distributed through trade that occurred both before and after the founding and expansion of the empire; they do not mark imperial extent. Inka polychrome ceramics, on the other hand, produced and distributed through state channels (Bray 2003; D'Altroy 2001), and they can be used to track imperial presence and activity in provincial areas. Timothy Earle and I discuss
these distinctions between Inka and Aztec imperial and economic dynamics and their expression on households in provincial areas (Earle and Smith 2012); see also Smith (2016). In sum, any use of material items by archaeologists to mark imperial expansion of needs to be based on an understanding of the nature of the polities; otherwise faulty conclusions can be drawn.

Provincial Strategies

Stark and Chance (2012) present a useful typology and discussion of the alternative strategies that provincial peoples engage in when dealing with distant empires or polities (Table 4). These strategies create variable spatial patterns of political power and influence, and they also create variable distribution patterns of material culture.

Autocratic vs. Collective Regimes

A major advance in understanding the variability in premodern state regimes was signaled by Blanton and Fargher’s (2008) book. They construct a numerical scale of autocratic to collective rule, based on a series of variables that measure aspects of public goods provision, level of bureaucratization, and degree of control of principals. Within the bounds of the state, the level of autocratic vs. collective rule has clear material-culture expressions, parallel to the contrast between indirect and direct-control empires: collective regimes provide far more public goods, including infrastructure, temples, and other urban services with clear material expressions.

Blanton and Fargher’s model remains underdeveloped with respect to the goals of this paper, for several reasons. First, they have been slow to develop a material-culture model for their scale that will facilitate archaeological application (for some progress on this, see Fargher et al. 2011). Second, it is not clear how their analysis of within-polity dynamics would play out on a larger, imperial, level. For example, elites may actively collaborate the “enemy” elites at the same time their polities are at war (M.E. Smith 1986), as in several of the provincial strategies listed in Table 4. Nevertheless, the form of autocratic or collective rule is another complicating factor that needs to be taken into account in any archaeological analysis of the material expression of large-scale imperial or world-system processes.

Where do Things Stand?

I return to the problem of data quality and quantity mentioned at the outset. In situations where archaeologists have done considerable fieldwork that has generated both regional spatial data and quantifiable artifactual data, with good chronological control, we can develop robust spatial models for the extent and boundaries of ancient empires and states. Two exemplary recent case studies are Bevan (2010) and Stoner (2012). Unfortunately, such studies typically cover a relatively small part of any ancient empire or polity. A major challenge now is to develop more detailed and reliable material culture models of empires and polities that can be applied to the lower intensity data that characterizes most parts of ancient polities.

It is all well and good to point out that network models are superior to static territorial models for understanding the spatial dimensions of political dynamics in the past (Berman 2005; Chase-Dunn and Hall 1997:52; Glatz 2009; M.L. Smith 2005). But can those network models be operationalized over larger areas, in cases that have much thinner data than covered by the case studies of Bevan (2010) and Stoner (2012)? The dismissal of such methods as simplistic and unfashionable is not helpful.

One option is to conclude that archaeological data are just not up to the task of reconstructing polities and networks in the past. This seems to be the attitude of Chase-Dunn et
al. (2016), whose “rules of thumb” for delineating past interaction networks are not workable with archaeological data. This option leads to two possible outcomes: either one’s accounts of deep history will be poorly supported and idiosyncratic, or else one’s samples will be limited to more recent periods that have considerable historical documentation. If, on the other hand, one takes a more optimistic view of the ability of archaeology to contribute to large-scale comparative projects, then a dedicated program of intensive coding—sensitive to archaeological data—is required. Such projects do exist (e.g., Sabloff and Cragg 2015; M.E. Smith et al. n.d.; Turchin et al. 2015), but they take considerable time and effort to develop and carry out in a rigorous fashion.

Acknowledgements

I thank the organizers of the Systemic Boundaries workshop for the invitation to write this paper. Barbara Stark and Wes Stoner provide helpful comments on an earlier draft.

Figures

Figure 1. Michael Doyle’s (1986) framework for imperial analysis.

Figure 2. Using artifact frequencies to reconstruct interactions and boundaries between cities. (a) commercial exchange that transcends borders; (b) political border that restricts exchange. Modified after: Cherry (1987:157).

Figure 3. Renfrew and Level’s x-tent model of the spatial projection of power from centers. Modified after: (Cherry 1987:163).

Figure 4. Behavioral ecology model for the occurrence of territorial behavior. Modified after Dyson-Hudson and Smith (1978:26).

Figure 5, Non-territorial polities: Aztec city-states in the Teotihuacan Valley. Modified after Gibson (1964:46).

Tables:

<table>
<thead>
<tr>
<th>Table 1. Interegional relations between small and large polities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 World economy</td>
</tr>
<tr>
<td>2 Preciosities world economy</td>
</tr>
<tr>
<td>3 Rare resource control strategy</td>
</tr>
<tr>
<td>4 Imperial control</td>
</tr>
<tr>
<td>A. Conquest threat and assymetrical alliance</td>
</tr>
<tr>
<td>B. Conquest and indirect administration</td>
</tr>
<tr>
<td>C. Conquest and direct administration</td>
</tr>
<tr>
<td>5 Elite social and political dynamics</td>
</tr>
<tr>
<td>A. Status export by larger state, impot by smaller</td>
</tr>
<tr>
<td>B. Factional fissioning of large state; relocation to smaller</td>
</tr>
<tr>
<td>C. Segmentary lineage fissioning and expansion by conquest</td>
</tr>
<tr>
<td>D. Political alliances</td>
</tr>
<tr>
<td>6 Independence and minimal interaction</td>
</tr>
<tr>
<td>7 Independence and competition</td>
</tr>
</tbody>
</table>

### Table 2. Archaeological Criteria for the Identification of Empires

<table>
<thead>
<tr>
<th>Features</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. The imperial capital</strong></td>
<td></td>
</tr>
</tbody>
</table>
| A. Large, complex urban center | 1. Militarism  
2. Glorification of king or state |
| **2. Domination of a territory** | | |
| A. Economic exchange between capital & provinces | 1. Provincial goods found at capital  
2. Imperial goods found in provinces |
| B. Political control of provinces | 1. Military conquest  
2. Construction of imperial infrastructure  
3. Imposition of tribute or taxes  
4. Reorganization of settlement systems  
5. Imperial co-option of local elites |
| **3. Projection of influence in a larger international context** | | |
| A. Economic influence | 1. Trade with extraimperial regions |
| B. Political influence | 1. Military engagement & activities along enemy borders  
2. Centralization or militarization of extraimperial polities |
| C. Cultural influence | 1. Adoption of imperial gods or rituals by distant peoples  
2. Emulation of imperial styles & traits by distant peoples |


### Table 3. Characteristics & correlates of empires

<table>
<thead>
<tr>
<th>Features</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Imperial Core</strong></td>
<td></td>
</tr>
</tbody>
</table>
| A. Large complex urban centre as capital | 1. Crop management strategies  
2. Animal management strategies |
| B. Occupational specialisation in core | 1. Labour investment in public building  
1. Charismatic individual rulers |
| C. Social Stratification, from elite to slave | 1. Imperial ideology at capital  
1. Militarism & use of terror |
| D. Ethnic diversity at capital | 1. Core appropriation of peripheral ideology |
| E. Agricultural intensification in core | 1. Glorification of state  
1. Glorification of ruler |
| F. Technological advantage in core | | |
| G. Imperial ideology at capital | 1. Core appropriation of peripheral ideology |
| H. Militarism & use of terror | | |
| I. Glorification of state | | |
| J. Glorification of ruler | | |
| K. Core appropriation of peripheral ideology | | |
| **2. Domination of Peripheral Polities** | | |
| A. Economic interaction between core & periphery via coercion/exchange | 1. Military control  
2. Imperial infrastructure across entire region |
| B. Political control of periphery | 1. Increased agricultural intensity in periphery  
2. Intensity/standardization of craft production in the periphery |
| C. Imposition of tribute/ tax on periphery | 1. Peripheral elite emulation of core elite |
| D. Imperial co-option of peripheral elites | | |
3. Empires in Global Context
A. Economic influence
   1. Trade/exchange beyond empire
B. Political influence
   1. Military policing of borders of empire
   2. State formation in adjacent zones
C. Cultural influence
   1. Elite emulation of imperial styles
   2. Elite emulation of imperial gods/rituals

4. Cycle(s) of expansion, consolidation, collapse
A. Expansion
   1. Slow-quick-slow sequence
B. Consolidation
   1. Economic downturn
C. Collapse
   1. Environmental downturn


Table 4. Strategies of Provincial Peoples in Empires

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Bolstering.</td>
<td>Elites and rulers seek to guarantee their own position locally and within the empire.</td>
</tr>
<tr>
<td>2 Resistance.</td>
<td>Provincial peoples seek to reduce or overthrow imperial control of local affairs.</td>
</tr>
<tr>
<td>3 Emulation.</td>
<td>Elite and others in the province employ a prestigious style associated with the empire.</td>
</tr>
<tr>
<td>4 Exodus.</td>
<td>Commoners or disaffected provincial elites flee to escape imperial boundaries or administered areas.</td>
</tr>
<tr>
<td>5 Information control.</td>
<td>Provincial peoples seek to control or conceal to their own advantage information sought by the imperial government.</td>
</tr>
<tr>
<td>6 Appropriation.</td>
<td>Provincial peoples selectively adopt imperial procedures and institutions and use them to further local ends.</td>
</tr>
<tr>
<td>7 Assertion.</td>
<td>Provincial peoples seek to redefine to their advantage or seek exemption from imperial procedures and institutions.</td>
</tr>
<tr>
<td>8 Complicity.</td>
<td>Elites in the province collaborate economically with significant imperial others to further their own interests.</td>
</tr>
<tr>
<td>9 Assimilation.</td>
<td>Elites or commoners in the province, as individuals or groups, seek varying degrees of social, economic, or identity integration with the dominant society.</td>
</tr>
</tbody>
</table>

References Cites

Alcock, Susan E.

Alcock, Susan E., Terence N. D'Altroy, Kathleen D. Morrison, and Carla M. Sinopoli (editors)

Barth, Frederik

Berdan, Frances F., Richard E. Blanton, Elizabeth H. Boone, Mary G. Hodge, Michael E. Smith, and Emily Umberger
1996  *Aztec Imperial Strategies*. Dumbarton Oaks, Washington, DC.

Berman, Merrick Lex

Bernal, Ignacio

Bevan, Andrew

Bintliff, John

Blanton, Richard E. and Lane F. Fargher

Boone, Elizabeth H. and Michael E. Smith

Bray, Tamara L.

Chase-Dunn, Christopher and Thomas D. Hall
Chase-Dunn, Christopher, Hiroko Inoue, and Teresa Neal

Cherry, John F.

1992 *Archaeology of Empires.* World Archaeology 23(2).

Collis, John

D'Altroy, Terence N.


Doyle, Michael W.

Dyson-Hudson, Rada and Eric Alden Smith

Dyson, Stephen L.

Earle, Timothy and Michael E. Smith

Fargher, Lane F., Verenice Y. Heredia Expinoza, and Richard E. Blanton

Ferguson, Yale H. and Richard W. Mansbach

Gasparini, Graziano and Luise Margolies

Gerring, John, Daniel Ziblatt, Johan van Gorp, and Julián Arévalo
Gibson, Charles

Glatz, Claudia

Gosden, Chris

Grosby, Steven

Hansen, Mogens Herman (editor)
2000a *A Comparative Study of Thirty City-State Cultures*. The Royal Danish Academy of Sciences and Letters, Copenhagen.


2002 *A Comparative Study of Six City-State Cultures*. The Royal Danish Academy of Sciences and Letters, Copenhagen.

Hare, Timothy S.

Hassig, Ross

Hodder, Ian and Clive Orton

Hyslop, John

Inomata, Takeshi

Joyce, Arthur A. and Sarah B. Barber
Levine, Marc N.  

Luttwak, Edward N.  

Mann, Michael  

Martin, Simon and Nikolai Grube  
2000 *Chronicle of the Maya Kings and Queens: Deciphering the Dynasties of the Ancient Maya*. Thames and Hudson, New York.

Matthews, Roger  

Monroe, J. Cameron  

Munson, Jessica L. and Martha J. Macri  

Naseemullah, Adnan and Paul Staniland  

Parker, Bradley J.  

Redhouse, D.I. and Simon Stoddart  

Renfrew, Colin and John F. Cherry (editors)  

Renfrew, Colin and Eric V. Level  
Routledge, Bruce

Sabloff, Paula L. W. and Skyler Cragg

Sergheraert, Maëlle

Shimada, Izumi (editor)

Sinopoli, Carla M.

Siroky, David S, Valeri Dzutsev, and Michael Hechter

Smith, Adam T.


Smith, Michael E.


Stoner, Wesley D.

Tomaszewski, Brian M. and Michael E. Smith

Turchin, Peter, Rob Brennan, Thomas Currie, Kevin Feeney, Pieter Francois, Daniel Hoyer, Joseph Manning, Arkadiusz Marciniak, Daniel Mullins, Alessio Palmisano, Peter Peregrine, Edward A. L. Turner, and Harvey Whitehouse

Umberger, Emily

Van Dommelen, Peter

Wheatley, David and Mark Gillings

Winter, Irene J.