Theory of CULTURE CHANGE

the methodology of multilinear evolution

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Multilinear Evolution:

Evolution and Process'

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THE MEANING OF EVOLUTION

Cultural evolution, although long an unfashionable concept, has commanded renewed interest in the last two decades. This interest does not indicate any serious reconsideration of the particular historical reconstructions of the nineteenth-century evolutionists, for these were quite thoroughly discredited on empirical grounds. It arises from the potential methodological importance of cultural evolution for contemporary research, from the implications of its scientific objectives, its taxonomic procedures, and its conceptualization of historical change and cultural causality. An appraisal of cultural evolution, therefore, must be concerned with definitions and meanings. But I do not wish to engage in semantics. I shall attempt to show that if certain distinctions in the concept of evolution are made, it is evident that certain methodological propositions find fairly wide acceptance today.

In order to clear the ground, it is necessary first to consider the meaning of cultural evolution in relation to biological evolution, for there is a wide tendency to consider the former as an extension of,

^{&#}x27;This chapter is adapted from "Evolution and Process," in Anthropology Today: An Encyclopedic Inventory, ed. A. L. Kroeber (University of Chicago Press, 1953), pp. 313-26, by courtesy of The University of Chicago Press.

from having an exclusively genetic significance, like that of biological relationship. It is only the complementary concept of diffusion, a represent divergent development and presumably an ultimate genetic patterns of the different areas and subareas are clearly conceived to rather similar to that of biological evolution: the variations and unique operation of diffusion and the frequency of convergence in the latter. culture as a whole rather than with particular cultures. But Childe only secondary importance. Such modern-day unilinear evolutionists such as those caused by distinctive local environments, are attributed phenomenon unknown in biology, that prevents cultural relativism It is interesting that such history as is implied in cultural relativism is evolution by stressing the divergent nature of the former and the cultural divergence and local variation by purporting to deal with as Leslie White and V. Gordon Childe evade the awkward facts of (1951: 160) quite explicitly distinguishes biological from cultural gent trends which do not follow the postulated universal sequence, genetically unrelated and yet pass through parallel sequences. Diveris assumed that cultural patterns in different parts of the world are rather than true parallels. In cultural evolution, on the other hand, it over, are generally considered to be instances of convergent evolution warm blood, are superficial and fairly uncommon. These latter, moredivergent. Parallels, such as the development of flying, swimming, and forms are genetically related and that their development is essentially biology and in culture. In biological evolution it is assumed that all schemes and of the developmental processes differs profoundly in chronological sense (Huxley, 1952). The nature of the evolutionary cultural evolution is an extension of biological evolution only in a development of the Hominidae was a precondition of culture. But ship between biological and cultural evolution in that a minimal and therefore analogous to, the latter. There is, of course, a relation-

Analogies between cultural and biological evolution are also alleged to be represented by two attributes of each: first, a tendency toward increasing complexity of forms and, second, the development of superior forms, that is, improvement or progress. It is, of course, quite possible to define complexity and progress so as to make them characteristics of evolution. But they are not attributes exclusively of evolution; they may also be considered characteristics of cultural change or development as conceived from any nonevolutionary point of view.

The assumption that cultural change normally involves increasing complexity is found in virtually all historical interpretations of cultural data. But complexity in biology and culture differ. As Krocber (1948: 297) states: "The process of cultural development is an additive and therefore accumulative one, whereas the process of organic evolution is a substitutive one." It is on the question not of complexity but of divergence that the relativists and evolutionists differ. According to the former, cumulative change follows parallel trends, whereas, according to the latter, it is ordinarily divergent, though sometimes it is convergent and occasionally it is parallel.

than to the development stage. ness to successive stages, regardless of the particular tradition, whereas relativism by the fact that the former attributes qualitative distinctivegration (Steward, 1950, 1951). Thus evolutionism is distinguished from organization, so social forms consisting of single families and lineages the latter attributes it to the particular tradition or culture area rather in turn, by state patterns, each involving not only greater internal are succeeded by multifamilial communities, bands, or tribes, and these, heterogeneity and specialization but wholly new kinds of over-all inteinternally specialized forms which have distinctive kinds of total as simple unicellular forms of life are succeeded by multicellular and ance of qualitatively distinctive patterns or types of organization. Just evolutionary view that development levels are marked by the appearchanges which create quantitative complexity, it is implicit in the unique pattern persists in each cultural tradition, despite cumulative cal concepts. This is the concept of organizational types and levels. Whereas relativism seems to hold that a rather fixed and qualitatively biological and cultural evolution from nonevolutionary cultural-historiconcept, an allied concept might be considered to distinguish both Although complexity as such is not distinctive of the evolutionary

This brings us to the question of progress, which is the second characteristic attributed to both biological and cultural evolution. Progress must be measured by definable values. Most of the social sciences are still so ethnocentric, especially in their practical applications, that value judgments are almost inescapable. Even the "Statement on Human Rights" (1947) offered to the United Nations by the American Anthropological Association clearly reflects the American value placed upon individual rights and political democracy. This or any other criterion of value, however, certainly does not imply evolution. In fact, the concept of progress is largely separable from

is considered evolutionary or not. progress as a characteristic of any form of cultural change, whether it By definition, then, it is possible although not necessary to regard may legitimately be considered a property or an attribute of culture." absolute in a philosophical sense; they are "the ways in which progress of human life; and the persistent tendency of technology and science cline of infantile obsession with the outstanding physiological events to grow accumulatively (Kroeber, 1948: 304). These values are not by no means an evolutionist, suggests three criteria for measuring progress: "the atrophy of magic based on psychopathology; the deevolution, and it may be approached in many ways. Kroeber, who is

to contemporary studies more because of their scientific objective and preoccupation with laws than because of their particular substantive in terms of "laws." The nineteenth-century evolutionists are important processes and to formulate the interrelationships between phenomena such divergence - than with parallels and similarities which recur terns and features of culture -- although it does not necessarily deny historical reconstructions. cross-culturally. It endeavors to determine recurrent patterns and It is less concerned with unique and divergent (or convergent) patscientific and generalizing rather than historical and particularizing develop in historically independent sequences or cultural traditions identical causality in each case. The methodology is therefore avowedly Second, it explains these parallels by the independent operation of characteristic of increasing complexity, or by the attribute of progress of its developmental scheme with that of biological evolution, by the tions. First, it postulates that genuine parallels of form and function The methodology of evolution contains two vitally important assump-This is not to say, however, that evolution lacks distinctive features. cultural relativism or historical particularism by any essential similarity We must conclude that cultural evolution is not distinguished from

cultures, placing them in stages of a universal sequence. Second, ambitious approach than the other two, is like unilinear evolution in than with cultures. Third, multilinear evolution, a somewhat less revamping of unilinear evolution — is concerned with culture rather universal evolution — a rather arbitrary label to designate the modern the classical nineteenth-century formulation, dealt with particular which evolutionary data may be handled. First, unilinear evolution, cultural regularities or laws; but there are three distinctive ways in Cultural evolution, then, may be defined broadly as a quest for

> for parallels of limited occurrence instead of universals. dealing with developmental sequences, but it is distinctive in searching

ceptability to scientists of the Western nations of anything labeled as official dogma (Tolstoy, 1952), has certainly not favored the acnineteenth-century evolutionism, especially of L. H. Morgan's scheme, categorically to reject it. The Marxist and Communist adoption of developments with nineteenth-century unilinear evolution and thus identify any effort to determine similar form and process in parallel have not been recognized, and there is still a general tendency to The critical differences between these three concepts of evolution

Unilinear Evolution

far less known and have been accorded less attention. areas which achieved civilization, particularly the New World, were Near East, the northern Mediterranean, and northern Europe. Other simple reason that civilization was thought of largely in terms of the groups of mankind, which included most of the primitive world, into and in the indiscriminate effort to force the data of all precivilized lated priority of matriarchal patterns over the other kinship patterns cases. The inadequacy of unilinear evolution lies largely in the posturecognize significant patterns and processes of change in particular temporaries (Tylor, 1865, 1871, 1881, 1899) failed completely to the categories of "savagery" and "barbarism." The category of "civischemes in the light of new empirical data concerning the history of lization," however, involved a less sweeping generalization for the does not necessarily follow that L. H. Morgan (1910) and his condemonstrated. Although no effort has been made to revise these evolutionary schemes, for their vulnerability in the face of twentiethindividual cultures — which itself is a somewhat remarkable fact — it century archaeological and ethnographic research has been amply There is no need to discuss the validity of the nineteenth-century

other areas, particularly with the Americas but also with India and in Greece, Rome, and northern Europe. Although comparisons with velopments which occurred first in Egypt and Mesopotamia and later valuable insights because they are based more specifically upon demany varieties of local trends, the analyses of civilization contain many stages of cultural development because they failed to recognize the deductions derived therefrom were largely wrong as regards carly In other words, whereas the historical reconstruction and the

these categories are needed necessarily on all. Such categories as "kin-based" and "state" are too clusions may nonetheless be valid under limited circumstances. Thus throw light on cultural development in many areas, though not broad; distinctions between particular, though recurrent, types within ment from a kin-based society to a territorial, state society undoubtedly Henry Maine's insights concerning the processes involved in developmental processes of civilization in general are concerned, the con-China, left much to be desired so far as forms, functions, and develop

into broad generalizations. Childe's approach to evolution on a wider scale has entailed a retreat areas if a truly comparative study were made. Significantly, however, probably would find certain rather precise parallels in other world cultural development in the eastern Mediterranean and Europe that V. Gordon Childe (1934, 1946) and others have given us of versal characteristics of culture. The extremely illuminating analyses considered qualities of particular cultural traditions rather than unicussed by the evolutionists which have validity, provided that they are There are probably many developmental forms and processes dis-

Universal Evolution

we may average all environments together to form a constant factor environmental conditions. But in a consideration of culture as a whole, try to account for the variations of specific culture. . . . The funcspecial environments are excluded as irrelevant. White (1949:338whole. The distinctive cultural traditions and the local variations tioning of any particular culture will of course be conditioned by local man as a species. But this does not and cannot help us at all when we 39) states: "We may say that culture as a whole serves the need of of special historical trends and of cultural ecological adaptations to the culture areas and subareas - which have developed as the result stages alive by relating these stages to the culture of mankind as a and Childe endeavor to keep the evolutionary concept of cultural constituted the essential feature of nineteenth-century schemes, White the unilinear historical reconstructions of particular cultures, which Aware that empirical research of the twentieth century has invalidated in the scope of its generalizations but not in its treatment of particulars. century unilinear evolution, especially as formulated by L. H. Morgan, Leslie White and V. Gordon Childe, is the heritage of nineteenth-Universal evolution, which is represented today principally by

> with such reasoning Childe does not say. divergent evolution is based empirically almost exclusively upon Old convergently re-creating the required patterns (Childe, 1951:160 ff). World data. How Old World and New World parallels would square This rather involved effort to enlist diffusion in order to offset diffusion brings technological and social features to all societies, thus largely divergent, the concept of evolution is salvaged by assuming that same time, while local developments within each general stage are position to accept diffused technological and social features. At the peculiarities due to differences of habitat" (Childe, 1951:35). Diffusion must also be discounted, because any society must be in a laws descriptive of the evolution of all societies, we abstract . . . the is a "serious handicap if our objective is to establish general stages in the evolution of cultures," and, therefore, in order to "discover general different vicissitudes, their traditions have diverged, and so ethnography reveals a multiplicity of cultures, just as does archaeology" lived in different historical environments and have passed through particular in much the same way. He writes that "all societies have which may be excluded from our formulation of cultural development' (Childe, 1951:32). Childe finds that consideration of the particular (Steward, 1949; italics mine). Childe reconciles the general and

areas are most illuminating, but he merely confuses the two areas sions. Childe's insights into the cultural development of these two and that Childe's superb knowledge of developmental patterns and erence to his own extensive and detailed studies of the Pueblo Indians Europe becomes almost an embarrassment in his theoretical discusprocesses which are disclosed in the archaeology of the Near East and It is interesting that White's theoretical discussions make no ref-

characteristics of "civilization." of large populations, cities, internal social differentiation and specialare so general that they are neither very arguable nor very useful. ization, and the development of writing and mathematics, which are is his criterion of "barbarism," and that the latter was a precondition nostic of "savagery," preceded plant and animal domestication which No one disputes that hunting and gathering, which is Childe's diagof nineteenth-century evolution. The postulated cultural sequences Childe yields substantive results of a very different order from those when he endeavors to fit them into simplified developmental stages. It is important to recognize that the evolutionism of White and

If one examines universal evolution with a view to finding laws

of these forms can be understood only by tracing the history of each organizational forms will appear in succession, but the specific nature from the data of both biological and cultural evolution that new of energy levels, for example, can tell us nothing about the development of the characteristics of individual cultures. We may deduce cause biological differentiation in each species. Similarly, White's law the incalculable number of particular circumstances and factors that selection cannot explain a single life-form, for they do not deal with and biological evolution are similar. Variation, heredity, and natural cultural change. It must be stressed, however, that all universal laws the characteristics of particular species and do not take into account features of particular cultures. In this respect, the "laws" of cultural thus far postulated are concerned with the fact that culture changes 175-79). It is certainly a worthy objective to seek universal laws of tion and selection as cultural adaptation and choice (Childe, 1951: is seen as invention, heredity as learning and diffusion, and adaptachanges have long been accepted. Childe's transfer of the Darwinian control over energy underlies certain cultural achievements and social of a sequential reconstruction of culture, it is also difficult to recogformula to cultural evolution also will not evoke challenge. Variation "law" that technological development expressed in terms of man's culture changes from the simple to the complex and White's (1943) nize anything strikingly new or controversial. The generalization that or processes of development rather than examining it merely in terms that any culture changes — and thus cannot explain particular

The problem and method of universal evolution thus differ from those of unilinear evolution. Right or wrong, the nineteenth-century evolutionists did attempt to explain concretely why a matriarchy should precede other social forms, why animism was the precursor of gods and spirits, why a kin-based society evolved into a territorial-based, state-controlled society, and why other specific features of culture appeared.

Multilinear Evolution

Multilinear evolution is essentially a methodology based on the assumption that significant regularities in cultural change occur, and it is concerned with the determination of cultural laws. Its method is empirical rather than deductive. It is inevitably concerned also with historical reconstruction, but it does not expect that historical data

can be classified in universal stages. It is interested in particular cultures, but instead of finding local variations and diversity troublesome facts which force the frame of reference from the particular to the general, it deals only with those limited parallels of form, function, and sequence which have empirical validity. What is lost in universality will be gained in concreteness and specificity. Multilinear evolution, therefore, has no a priori scheme or laws. It recognizes that the cultural traditions of different areas may be wholly or partly distinctive, and it simply poses the question of whether any genuine or meaningful similarities between certain cultures exist and whether these lend themselves to formulation. These similarities may involve salient features of whole cultures, or they may involve only special features, such as clans, men's societies, social classes of various kinds, priesthoods, military patterns, and the like.

It may be objected that a limited formulation which postulates that some special feature —let us say a clan — has developed in two or more cultures independently for the same reasons cannot be considered evolution. We thus return to definitions. If evolution can be considered an interest in determining recurrent forms, processes, and functions rather than world-embracing schemes and universal laws, the many efforts to make scientific generalizations, whether they deal with synchronic, functional relationships or with diachronic, sequential relationships and whether they embrace few or many cultures, are methodologically akin to evolution. The nineteenth-century evolutionists were deeply interested in making generalizations.

THE METHOD OF MULTILINEAR EVOLUTION

Parallelism and Causality

An implicit interest in parallelism and causality has always been present in cultural studies, and it seems to have increased during the last two decades. It would be quite surprising, in fact, if anyone held so tenaciously to the logical implications of the relativist position as to claim that understandings derived from the analysis of one culture did not provide some insights as to form, function, and process in others. The difficulty is in raising these insights from the level of hunches to that of explicit formulations. Postulated parallels and recurrent cause-and-effect relations are regarded with suspicion. They may be questioned on empirical grounds; and the inherent difficulty of deriving cultural laws may be attacked on philosophical grounds.

The methodology of cultural studies thus remains predominantly that of historical particularizing rather than of scientific generalizing.

is more of an evolutionist, Lowie or White? moreover, he is something of a multilinear evolutionist. Who, then, unilinear evolution,2 he is in accord with most of the profession in more developed civilizations. Although Lowie cannot accept Morgan's accepting such generalizations as universal evolution has to offer, and Africans, for example, were metallurgists but lacked other features of that cultures can be graded on the basis of metallurgy because the breeders and farmers forge metals" (Lowie, 1940:45). But he denies metallurgy it is clearly not on the plane of savagery; only stockcertain cultural achievements presuppose others. "If a tribe practices accept a kind of necessity in cultural development to the extent that cults, and others (Lowie, 1940:376-77), but he is quite prepared to many features, such as moieties, dual systems of numbers, messianic not only recognizes independent invention and parallel development in unsparing of L. H. Morgan's unilinear reconstruction (Lowie, 1925), the framework of the so-called "Boas school." Thus Lowie, who was by many scholars who have made outstanding contributions within A genuine interest in parallels, however, has been clearly expressed

American anthropologists have traditionally assumed that there were Old World and New World parallels in the invention of farming, stockbreeding, ceramics, metallurgy, states, priests, temples, the zero and mathematics, writing, and other features. It would perhaps be going too far to say that this makes them multilinear evolutionists. When the question of parallel cultural causality arises, these similarities are held to be only superficial or to represent convergent evolution, or else it is said that the historical and functional relationships involved are as yet too imperfectly understood to permit formulation in terms of cross-cultural regularities. Nevertheless, many persons have recognized such a deep significance in these parallels that they believe diffusion must have occurred between the hemispheres, while others have attempted to formulate Old and New World sequences in terms of comparable developmental periods.

Kroeber (1948:241) did not hesitate to conclude from the numerous parallels in different parts of the world that "culture relations

or patterns develop spontaneously or from within probably more frequently than as a result of direct taking-over. Also, the types of culture forms being limited in number, the same type is frequently evolved independently. Thus, monarchical and democratic societies, feudal or caste-divided ones, priest-ridden and relatively irreligious ones, expansive and mercantile or self-sufficient and agricultural nations, evolve over and over again." Elsewhere, I have called attention to statements by Lesser, Boas, Kidder, and others that crosscultural understandings in terms of laws, regularities, or parallels—those who object to calling these "laws" may use some other term—are a major objective of anthropology (Steward, 1949, 1950). This list could be extended to include a substantial portion of the profession.

alien group. A similar pattern is found among the Tupinamba of means of diverting latent hostilities against kin to members of an example, among the Iroquois and their neighbors, war captives were significant factor in the formulation of certain cultural parallels. For South America and among tribes in other parts of the world. Although Raymond Scheele (1947) has suggested that this pattern provides a adopted as members of the captor's family, then tortured and killed. human beings which channels aggression in certain ways may be a turned inward against the self." This psychological attribute of or in pathological states of melancholy resultant upon anger being increase in intratribal hostility (perhaps in the form of witchcraft) customary outlet for aggression in war is blocked, one may predict an in the equation. Thus Kluckhohn (1949:267) suggests: "If a tribe's which man's rational and emotional potentials are not a zero factor in cultural change (Steward, 1938). There are certain problems in esses through which a historically derived culture is modified in a demonstrate how cultural-ecological adaptations — the adaptive procand the environmental factors is an aspect of his concern with culture matter. But I must insist that White's elimination of both the human particular environment — are among the important creative processes rather than with cultures. I have endeavored in various studies to cultural level. Leslie White (1949: Chapter 14) has argued so cogently are synonymous. It is beyond the scope of this paper to argue the objective of multilinear evolution need not be carried out on a purely terms that the impression may stand that culturology and evolution in favor of understanding cultural change in strictly culturologica The determination and analysis of parallels as a methodological

Lowie, in a reply to White, stressed the fact that Morgan, Tylor, and others were forcing the historical data of particular cultures into unilinear schemes rather than dealing with the evolution of an abstract or generalized world culture. See Robert H. Lowie, "Evolution in Cultural Anthropology: A Reply to Leslie White," American Anthropologist, XLVIII (1946), 223-33.

the psychological premises and the cultural manifestations may be open to question, the data suggest a useful cross-cultural formulation of certain modes of behavior.

The kinds of parallels or similarities with which multilinear evolution deals are distinguished by their limited occurrence and their specificity. For this reason, the outstanding methodological problem of multilinear evolution is an appropriate taxonomy of cultural phenomena.

Cultural Taxonomy

Any science must have precise means of identifying and classifying the recurrent phenomena with which it deals. It is symptomatic of the historical rather than the scientific orientation of cultural studies that there are few terms designating whole cultures or components of cultures which may be employed cross-culturally. "Plains culture," "East African cattle culture," "Chinese civilization," and the like designate culture areas which are conceived as unique patterns and complexes of elements. A great many sociological terms, such as "band," "tribe," "clan," "class," "state," "priest," and "shaman," are used to describe features which are found repeatedly in generically unrelated cultures, but they are much too general even to suggest parallels of form or process. The most precise terms designate very special technological features, such as "bow," "atlatl," or "ikat weaving." Such features, however, generally imply no large patterns, and the only inference ordinarily drawn from their distributions is that diffusion has taken place.

The present status of cultural taxonomy reveals a preoccupation with relativism, and practically all systems of classification are fundamentally derived from the culture-area concept. Basically, the culture area is characterized by a distinctive element content, which, on a tribal level at least, constitutes the shared behavior of all members of the society. Classification may give equal weight to all elements, as in Klimek's statistical handling of the culture-element lists which were compiled in the University of California survey of western tribes or as in the midwestern or McKern method of classifying archaeological complexes. The former yields culture areas and subareas; the latter gives categories of associated elements, which of themselves are placed neither in time nor in space. Following Wissler, culture area classifications have tended strongly to emphasize economic features, although not all postulate so close a relationship between culture and

environment as Wissler, and noneconomic traits receive emphasis which varies with the individual scholar and which may lead to a diversity of classificatory schemes for the same data. Thus South America has been grouped into five areas by Wissler (1922), eleven by Stout (1938), three by Cooper (1942) and by Bennett and Bird (1949), four by the Handbook of South American Indians (Steward, 1946-48), and twenty-four by Murdock (1951). Each gives primacy to features of interest to the individual. All these classifications are particular to the data of South America. None endeavors to recognize in any of the three to twenty-four areas structural or developmental features which are common to areas outside South America.

Classifications of cultures in terms of value system or ethos has essentially the same basis as that of culture areas. Such classifications all presuppose a common core of shared culture traits which cause all members of the society to have the same outlook and psychological characteristics. Benedict's concept of pattern, Gorer's and Mead's concept of national character, and Morris Opler's concept of themes derive from a taxonomic approach that is basically like that of Wissler, Kroeber, Murdock, Herskovits, and others.

aspect of culture may be attributed primary taxonomic importance. cultures. Second, the selection of diagnostic features must be deinterrelationship with one another in each case. Third, the selected features are presumed to have the same functional termined by the problem and frame of reference. Conceivably, any which are found among two or more, but not necessarily among all, necessary to select special constellations of causally interrelated features Since no two cultures are quite alike in their element totality, it is type differs from a culture area in several respects. First, it is characsearch for regularities and parallels. By the present definition, a culture of significant types has constituted the principal obstacle to a systematic terized by selected features rather than by its total element content designated "culture type." The difficulty of empirical determination trasts and differences, there is needed a concept which may be cross-cultural parallels and regularities rather than of stressing con-If a taxonomic system is to be devised for the purpose of determining

Illustrative of cultural types are Wittfogel's "oriental absolute society" (Wittfogel, 1938, 1939), which exemplifies cause-and-effect

^{*}Ralph Linton uses the term "culture type" but clearly has in mind the culturearea concept rather than types which are found in different cultural traditions. See Ralph Linton, The Study of Man (New York: Appleton-Century-Crofts, 1936), p. 392.

regularities between a special kind of sociopolitical structure and an irrigation economy; the present author's "patrilineal band," which is characterized by certain inevitable relationships between a hunting economy, descent, marriage, and land tenure (Steward, 1936); Redfield's folk society (Redfield, 1941, 1947), which has certain general features common to many, if not most, societies at a simple development or integrational level and which reacts to urban influences—at least to influences of the modern industrial type of urbanism—according to postulated regularities; and a feudal society (Princeton Conference, 1951), which once characterized both Japan and Europe, where it exhibited similarities in social and political structure and economy.

These few, illustrative types make economic and sociological features primary because scientific interest is widely centered in such features and because socioeconomic structure has therefore been more broadly examined and more readily formulated than other aspects of culture. Economic patterns are generally ascribed considerable importance because they are inextricably related to social and political patterns. Certain aspects of religion, however, are also included in Redfield's types. In an elaboration of Wittfogel's irrigation societies, the author has tentatively formulated developmental types which include not only social and political patterns but also technological, intellectual, military, and religious features that mark successive areas in the history of these societies (Steward, 1949, and Chapter 11).

such as the Shoshoni and Eskimo, and by cohesive tribelets, such as stances. There are also types characterized by dispersed family groups, result of particular cultural-historical and cultural-ecological circummany types of hunting and gathering societies which developed as the many unrelated families (Steward, 1936). But these are only two of from those which produced a nomadic, bilateral band composed of patrilineal band, consisting of a localized lineage, were very different tional relations and cultural-ecological adaptations which led to a to use the evolutionists' term — is far too broad a category. The funcmind. A stage of hunting and gathering, for example — or of savagery, deals only with world stages will not serve the purpose we have in like that of White and of Childe which ignores local particulars and types, many of which have not as yet been recognized. A methodology velopmental processes will have to distinguish innumerable culture parallels and regularities in terms of concrete characteristics and de-A taxonomic scheme designed to facilitate the determination of

those of California. Moreover, it does not at all follow that all hunters and gatherers are classifiable into types which have cross-cultural significance. Many may be unique, except as some limited feature of their culture parallels a similar feature of another culture—for instance, the development of clans.

Since hunting and gathering tribes fall into an undetermined number of cultural types, any larger developmental scheme cannot with certainty take any type as representative of a universal early stage, except in characteristics that are so general as to signify nothing concretely about any particular culture. The absence among hunters and gatherers of dense and stable population, of large permanent towns, of social classes and other kinds of complex internal specialization, of priesthoods, group ceremonialism, money, investment, writing, mathematics, and other characteristics of "civilized" people is to be expected. The particular forms of marriage, family, social structure, economic co-operation, socioreligious patterns, and other features found among is to ascertain the detailed processes by which hunters and gatherers were converted into farmers or herdsmen and these latter into more

"civilized" people, and it is necessary to deal with particular types. Among the farming cultures there is also a large variety of cultural types which have not been systematically classified with reference to problems of cross-cultural parallels or formulations of causality. Irrigation civilizations have received considerable attention (Chapter those who farm in the tropical forest agriculture" still refers merely to crops, methods of farming, markets, and related cultural features. Possibly the culture areas of the rain forest in the Old and New World, including both the Mediterranean and the northern hardwood forests, developed indigenous unique culture types. It is more likely that significant parallels between such areas would be disclosed if they were compared with reference to environment, technology, and

At present, interest in parallels centers in the development of Old and New World civilizations. The parallels are striking and undeniable. They include the independent development—independent, that is, according to most but not all anthropologists—of an impressive list of basic features: domesticated plants and animals, irrigation, large towns and cities, metallurgy, social classes, states and empires, priest-hoods, writing, calendars, and mathematics. Although there is still

considerable tendency to stress the distinguishing features of each center or tradition and thus to view each as a culture area rather than as a culture type, interest in function and processes is gradually leading toward the use of comparable terminology. Instead of narrow technological terms like "Old Stone Age," "New Stone Age," and "Bronze Age," such potentially typological terms as "Formative," "Florescent" or "Classical," and "Empire" or "Fusion" are being used for the New World. For Old World development, Childe has introduced partially equivalent terms, such as "Urban Revolution." I think it is safe to predict that as interest centers more and more upon the functional interrelationship of cultural features and upon the processes by which cultures are adapted to a variety of environments, a taxonomy suggesting significant parallels will appear.

The conceptual basis of multilinear evolutionary taxonomy is no less applicable to contemporary trends of cultural change than to pre-Columbian changes. Today, the many distinctive varieties of native culture areas of the world—and these include whole nations, subcontinents, and continents, such as China, India, Southeast Asia, Africa, and Latin America—are being strongly affected by industrialization which diffuses primarily from Europe and America and secondarily from subcenters created in all continents.

Whether the particular features of industrial developments — the mechanization of farm and factory production, the cost accounting methods, corporate and credit financing, and the national and international systems of distribution and marketing — are considered to be a single world development or a number of quasi-independent growths from a general industrial basis, there appear to be rather striking parallels in the consequences of the diffused features. These parallels are classifiable in terms of trends toward the production of cash commodities, purchase of manufactured articles, individualization of land tenure, appearance of a cash-based rationale in values and goals, reduction of the kinship group to the nuclear family, emergence of middle classes of business, service, and professional personnel, sharpening of interclass tensions, and risc of nationalistic ideologies. All these are features which also characterize the peoples of Euro-American

nations. But it would be too simple an explanation to say that these features were also merely diffused from Europe. Detailed study of native populations discloses processes which made the development of these features inevitable, even in the absence of sustained, face-to-face contacts between the native populations and Europeans which could introduce new practices and a new ethic. There is good reason to believe that the very fundamental changes now occurring in the most remote parts of the world are susceptible to formulation in terms of parallels or regularities, despite various local overtones which derive from the native cultural tradition. Although no very deliberate effort to formulate these regularities has yet been made, considerable contemporary research is directly concerned with modern trends, and preliminary formulations.

sequences involving whole cultures and covering millenia features are no less evolutionary from a scientific point of view than which require only a few years and involve only a limited number of through time must always take place. Therefore, parallel developments hundred years for the relationship to become established, development under stipulated conditions. Whether it requires ten, twenty, or several effects, it is assumed that some must always be accompanied by others of which features are considered causes and which are considered and time depth or development is necessarily implied; for, regardless ships in independent cultural traditions. In each of the cultural types mentioned above, certain features are functionally related to others, feature of evolution is the determination of recurrent causal relationtion." However, it is our basic premise that the crucial methodological folk society under urbanizing influence can hardly be called "evolusequence. Thus Redfield's postulated regularities in the changes of a Not all parallels need be based essentially upon a developmental

CONCLUSIONS

Cultural evolution may be regarded either as a special type of historical reconstruction or as a particular methodology or approach. The historical reconstructions of the nineteenth-century unilinear evolutionists are distinctive for the assumption that all cultures pass through parallel and genetically unrelated sequences. This assumption is in conflict with the twentieth-century cultural relativists or historical particularists, who regard cultural development as essentially diver-

^{&#}x27;These terms and their significance have been reviewed by Julian H. Steward and Wendell C. Bennett. See Julian H. Steward, "Cultural Causality and Law: A Trial Formulation of the Development of Early Civilization," American Anthropologist, LI (1949), 1-27; and Wendell C. Bennett (ed.), A Reappraisal of Peruvian Archaeology, Memoir, Society for American Archaeology, Vol. XIII, Part II (1948).

philosophical. The relativists are phenomenological and esthetic. The evolutionists were deductive, a priori, schematic, and largely concerning fundamental historical fact is reflected in cultural taxgent, except as diffusion tends to level differences. This disagreement difference in point of view also involves the very logic of science. relativists and particularists are culture areas or traditions. The primarily developmental stages applicable to all cultures; those of the The major categories of the unilinear evolutionists are

two were preconditions of "civilization," which is broadly characterments, social heterogeneity and internal specialization, and other ized by dense and stable populations, metallurgy, intellectual achieveculture generically considered and not of cultures. Their reconstruction development, but they now profess to be interested in the evolution of ing and gathering preceded farming and herding and that the last of world culture history is, as a matter of fact, made in such general divergent development in different areas as well as by the stage of concede that particular cultures have distinguishing features caused by system of broad generalizations about the nature of any culture. They universal scheme into which all individual cultures may be fitted to a terms as to be quite acceptable to everyone. No one doubts that hunttheir frame of reference from the particular to the general, from a matter of major controversy, those who have sought to keep the tradition of nineteenth-century evolution alive have been forced to shift linear stages. Since this basic fact of cultural history is no longer a diverge significantly from one another and do not pass through uniwhich overwhelmingly supports the contention that particular cultures Twentieth-century research has accumulated a mass of evidence

significant features. Taxonomy, which is discussed at length in Chapcultural similarities as well as differences. The formulation of the similarities in terms of recurring relationships will require a taxonomy of be laid for historical reconstruction which takes into account crossbe wholly unilinear, each tradition must be wholly unique, a basis may none dogma that, because cultural development is now known not to traditions. If interest in these parallels can be divested of the all-orprobably most anthropologists recognize some similarities in form, parallels in cultural history is regarded with suspicion. Nonetheless, cultural development, the proposition that there are significant function, and developmental processes in certain cultures of different Because the weight of evidence now seems to support divergent

> number of different cultures. The developmental formulation may involve long or short historical sequences. ter 5, may be based upon few or many features and upon a varying

may recur cross-culturally but are not necessarily universal which formulate the interrelationships of particular phenomena which new formulations that will explain any and all cultures. The most students of culture. Universal evolution has yet to provide any very fruitful course of investigation would seem to be the search for laws ing the particular cultures analyzed in detail by the nineteenth-century evolution is discredited, except as it provides limited insights concernrather than in unilinear evolution or universal evolution. Unilinear limited similarities and parallels, that is, in multilinear evolution formulations, the greatest promise lies in analysis and comparison of For those who are interested in cultural laws, regularities, or