NOTES AND DISCUSSION

A note on the genealogy of research traditions in modern phonology

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1. INTRODUCTION

This brief note is concerned with the notion of genealogy and continuity in linguistic research. Our natural methods of work require of us some beliefs about the origins of our intellectual tools, and these beliefs play an active role in the unfolding of our field’s progress. In short, these beliefs matter, and they matter to all of us. Furthermore, any insights to be gained in this area are likely to have a salutary effect on our profession. For these remarks, I will focus on the area of African language phonology, and its relationship to phonological theory. Many other choices could have been made, and thus to some extent the choice is arbitrary; but it can hardly escape even the casual observer of the current phonological scene that it stands in profound debt to work on African languages. Our task, we may say, is to elucidate what such a statement of intellectual debt consists in.

It would be disingenuous to press too far the arbitrariness of the choice of African-language phonology, for part of the choice rests on the personal, working experience of this writer. The choice is a reasonable one in other, less subjective ways. African linguistics is a particularly unified field, experiencing remarkably little in the way of schisms based on the language or country of the investigator, or the theoretical background of the researcher. There is some of this, to be sure, but conferences and publications continue to show a thorough integration of workers in North America, Africa and Europe. Moreover, it is by no means a straightforward task, in many cases, to distinguish phonological theory and work on African-language phonology.

To some degree, the difference between the two lies in the eye of the beholder, and this will hold true in most areal sub-disciplines. What may strike one reader today as a highly theoretical work may seem in forty years’ time to be hardly theoretical at all, perhaps no more than a passing description of some

[i] I am grateful to Stephen Anderson, Eric Hamp and to the editor of this journal for comments on an earlier version of this article. It was first presented at the 25th Conference on African Linguistics, at the University of Illinois, in May 1989.
facts, while another analysis—ostensibly, a simple account of some observations—may be seen decades after the fact to be heavy-laden with new and original perspectives going well beyond the immediate subject matter of the article.

A part—a large part—of the reason we may have so much difficulty in determining whether a particular work is a contribution to theory or to African linguistics derives from our unanalyzed assumptions regarding what the difference between linguistic theory and a descriptive/historical field such as African linguistics is. It is difficult for most of us, I dare say, to remove ourselves from what we may call the ‘data versus analysis’ myth: the myth that holds that there is in principle, or in practice, a line that can be drawn between linguistic description, which focuses on work with informants, and linguistic analysis. The latter consists of two parts: first, producing analyses of the data that have come from the informants; and second, producing and testing theoretical models which bear on the analyses of the data that the field-workers have so graciously provided us with; meanwhile, the theoretical models may bear on analyses by encouraging, discouraging or even eliminating various such analyses.

The data vs. analysis myth encourages a particular view of what the relation must be between linguistic theory and African linguistics. African linguistics must be primarily data collection, and linguistic theory must be primarily analysis production. If we start with assumptions such as these, then we may end up with surprising conclusions, such as ‘how theoretical African linguistics has become in the last ten years’; or ‘African linguistics is certainly making a major contribution to linguistic theory these days.’ Now, we do hear such things, and not infrequently (underscoring the sway of this myth); and while there is a good deal of truth to such statements, and while the self-congratulatory back-patting that such statements lead to may well be in some measure justified, I would like to offer a different perspective on the relation of linguistic theory to African linguistics. My perspective has as its central theme the following idea: that one of the functions of linguistic theories is to establish professional affiliations and distances. Thus, while linguists working within a single theoretical framework may make serious efforts to remain knowledgeable about the work of their colleagues within the same framework, this effort is often counterbalanced by an unspoken sense that work which is not within one’s own framework falls beyond one’s immediate responsibility. Theory, in such a way, can have the definite effect of fragmenting the field. A professional group such as constitutes the field of African linguists serves the opposite function: it serves to unite, over space and over time, the work of linguists is highly divergent theoretical frameworks. We may thus offer the following proposition: no historian of modern linguistics can understand the continuities in our field without tracing them through fields such as African linguistics, for that is where the important ideas of our times live, prosper and remain fertile, often despite the Balkanizing effects of linguistic theory. My goal, then, is to illustrate this perspective with a limited case study, the relationship between Firthian prosodic phonology and current theories of autosegmental and metrical phonology. I will suggest that the only way to make sense of the historical facts of the matter is to understand the competing and conflicting business of linguistic theory, on the one hand, and African descriptive linguistics, on the other.

Several of my colleagues have expressed puzzlement or dismay at my use of the term function with regard to the role of linguistic theory in the larger context of the profession, rather than some milder term, such as effect. They have raised the question as to whether I am not therefore endorsing a thoroughly-going sociological—perhaps to that extent, non-rational—view of linguistic science. We must, I think, remind ourselves that science, like language itself or any other human field of endeavour, is a gridwork of interrelated but not reducible perspectives subject to many simultaneous levels of analysis, none of which can replace the other. A phonological account of a language does not, generally speaking, replace a syntax or a morphology; the one supplements the other. In certain notorious areas, these familiar components of the grammar can begin to impinge on each other, and affect their individual autonomous; so too for the levels of analysis of our field, as I indicate in the text. In linguistics, though, we may go so far as to draw normative conclusions as to how we prefer our field to operate, and I will do just that below, and suggest that otherwise human and natural functions might just as well be less prominently represented in our professional matrix.

2. FIRTHIAN PHONOLOGY

The British linguist J.R. Firth established a way of thinking about phonological problems which is today generally referred to as Firthian phonology or prosodic phonology, or as the London School. As Hill (1966: 223) wrote, ‘Prosodic Analysis made its effective debut with J. R. Firth’s “Sounds and Prosodies” in 1948—effective, in the sense that from this point on there has been a continuous flow of published work from linguists practicing it.’ As this dating suggests, Firthian developments were contemporaneous with similar developments in the United States of the sort discussed in Zellig Harris’s work on long and simultaneous components (Harris, 1944), Charles Hockett’s developments of this (Hockett, 1947) and Bernard Bloch’s work as well (Bloch, 1948). I will not discuss this American development here, in part because I have discussed it elsewhere (Goldsmith, 1975). Firth’s work was also roughly contemporaneous with much of the work in phonological theory by Kenneth Pike, though Pike’s work continued after Firth’s own ended; for a practical summary of Pike’s work in the area of African linguistics (covered virtually not at all in his well-known Tone languages of 1948) see Pike (1966).
The concerns that are central to articles written within the Firthian tradition in the 1960s, 1970s and 1980s are much more in tune with the current spirit of theoretical concerns than are those of the bulk of articles written in other theoretical frameworks of the time. Firth's approach to phonological analysis began with a division of the sound features of a given language into phonemic units and prosodics. The phonemic units we might think of as corresponding to the elements of a skeletal tier in autosegmental structure, though typically they would have some phonological units, a melody tier in an autosegmental model, a tier which was distinctive for its nominal and varietal features, as in, for example, McCarthy's work on Arabic (McCarty, 1973). Firth did see these phonemic units as being the core, irreplaceable point-like units of phonological analysis, and prosodics used them to spread over. Firthian analysis also includes a kind of property that consists of C and V patterns. Thus, if a particular grammatical property is always expressed with a CCVC pattern, this for Firth would be a prosody. Prosodies more generally correspond to auto-segmentalized features, as well as to aspects of metrical structure, such as syllable, foot and grid structure. 

The notion of phonemic unit was not an easy one, it would seem, for American linguists, to grasp, and indeed, little or no use was made of such notions in the North American context. Gleason has recently written about this, noting that from the point of view of American structuralism, it was only natural to interpret the word 'phonemic' as an idiosyncratic variant of phonemic, which was not at all what Firth meant. However, American linguists were accustomed to Joshua Whorf's view over against the word 'phonemic', which they thought should be 'phonemic' on purely etymological grounds. Thus, Americans were equipped to misunderstand some of Firth's terminological decisions.

Now, to understand any linguistic movement, we must, of course, understand what it is a reaction against. To understand phonemics, we must understand that it was in part a reaction to the deluge of irrelevant phonetic information that phoneticians were immersed in (see Robin, 1950: 170-171, 210-213); to understand prosodic phonology, we must recognize that it was phonologically contrastive within the segmentable speech signal was so thoroughgoing that it left little or no room for considerations of higher-level

[1] This is not to say that American theorists did not have a good deal to say of relevance to current autosegmental and metrical models. I have attempted to illustrate this point - Blench and others. Nor is it so, the heavy hand of Bloomfieldian assumptions about phonological representation in the United States made American work by and large less relevant to our current interests when compared to Firth's work.

[2] In unpublished writing, which he has been kind enough to give me access to.
word. Of these, clew cases that could be handled directly were vowel harmony, nasal harmony and certain other harmonies of this sort. The interested reader may consult various references in Basu et al., 1966, Langendoen, 1968, and Palmer, 1970).

2.1 Tone

But perhaps surprisingly, the Firthian, treatment of tone (at least in the African context) was a good deal less insightful than its treatment of other prosodic effects, and I think that one of the reasons for this was that tone is not just like vowel harmony, it is not just something that spreads over a large domain in a homogeneous fashion. The Firthian approach encouraged investigators to notice respects in which a tone pattern was a property of an entire word. In the case of African languages, this was an important step towards the correct analysis, a wap which permitted a correlation to be established between grammatical and lexical dimensions and the tone-melody of the word abstracted away from the syllable template. But tone is not like nasality, even when the nasality is as grammaticized as Basido-Samuel showed that it is in Teresa, where the first-person singular is stuck on a syllable by a prosody of nasality (Bendor-Samuel, 1960). In these systems, it is necessary to come to grips with a kind of internal segmentation within the tonal melody or envelope. As we have come to see in the last ten or fifteen years, this autonomous segmentation of tone, and other prosodic levels, is an important characteristic of African tone systems, and autosegmental analyses specifically differ from their Firthian counterparts in insisting on segmentation of a uniform sort on each tier. Indeed, this is the central idea of autosegmental phonology: that the effects impressionistically called 'supersegmental' are just as segmental as anything else, in the sense that they consist of linear segments of more basic units which can be treated analytically.

However, I think it is fair to say that such segmentation of prosodies has been quite foreign in spirit to prosodic analysis. Indeed, it was Firth's anticipation, hostility and mistrust of the techniques that had led to traditional phonemic segmentation in the first place that brought him to the postulation of prosodies. This difference between the conception of autosegments and that of prosodies is one of the most important and distinctive. The end result was that Firthian tonal analysis was practical and insightful when applied to the treatment of tone with short words (such as many Asian languages — see Sprigge, 1965). It was of more limited practical and theoretical success when applied to the analysis of African tone languages, where the domain across which tones may be mapped, and may interact, is frequently much larger — as is certainly the case in the Basu languages, as well as in Igbo and a number of other West African languages.

2.2 Degree of specification

Firthian analysis added a question that is very much with us today, that of the number of 'values' that are specified for a given feature. In a general essay on prosodic analysis published in the collection dedicated to Firth after his death, Hill (1966:206) writes:

there is nothing about the incidence of frontness and backness in the native Turkish word that would lead us to treat either one as the marked member of an opposition. The case of roundedness, however, is different: we can state a rule for its occurrence in the word, but there is no complementary rule, of the same order of simplicity, for the occurrence of spreadness...To illustrate the point further, we may take verbal tone in Nyanya where the writer bases himself on his own work. In Nyanya words,...each syllable has a high or low tone; there are virtually no restrictions on sequences, except that final low-high does not occur...Our natural inclination [would] be to treat high-low as a pair of equivalent alternant features. However, each Nyanya verb tense has a characteristic tone pattern. If we examine its operation with verbal stems containing varying numbers of syllables, we shall see that the tone pattern is a set of high tones: no many syllables must have them, the rest are unmarked, therefore low.

This discussion is by no means isolated in the Firthian literature, and we see that the nature of specification — whether something akin to features should be monovalent (private), or Hill suggests, or bivalent (equivalents) — is an important question, and one which will remain unaddressed in its entirety. Without reaching too much on this passage, I think that one gets a sense that the issue is even more alive as a matter of the actual architecture of the grammar for those writing within a Firthian context than the question would be for Trubetzkoy. Hill does not simply want to come to a conclusion as to whether the feature is monovalent or bivalent (that is, private or equivalent); he wants us to understand that this decision has further consequences with regard to other principles down the line that appear in our grammar.

2.3 Quantity and syllable structure

An insightful and influential article on syllable structure in Luganda, and in fact more generally in Bantu, was published by A. Tucker in 1962. In this extended discussion, Tucker develops an account which brings out an 'aesthetically satisfying' (122) picture of the syllable in Luganda, treating a number of problems that have traditionally been recognized to be especially problematic areas for segmentally oriented theories of phonology: the problem of geminate consonants, the problem of the long/short vowel contrast; the nature of syllable weight or quantity, and its relation to tone.
There are a certain number of ‘dynamic’ aspects to his analysis, that is, places where his analysis speaks of one thing ‘becoming’ another under various conditions or subject to various constraints, and in this respect his analysis is amenable to a generative re-interpretation. Tucker’s conclusions focus on aspects such as the fact that one of the outstanding characteristics of Luganda is, that although compensation for elision or contraction is made, this compensation must never allow a long syllable to contain more than two moras. Consequently, if two lengthening features occurred together, their effect is not ‘cumulative’ (1962: 130). While we might expect this to be stated in turn as a condition on what a possible syllable is in Luganda, Tucker does not in fact ever do that. He does not take the step of equating limitations on dynamic processes to constraints on possible structures, enough put in this way we may have little doubt that he would agree on the natural connection between the two. Such notions of derivation subject to cumulative restrictions were quite uncharacteristic of most phonological theories of the time, including generative ones. Kisselth’s discussion of ‘conspiracies’ was perhaps the first clear discussion in generative terms, and it was not published until close on a decade later.5

Tucker is at pains in his article to motivate the notion of mora as the appropriate analytical tool for understanding vowel length, consonant length and tonal association, and makes arguments that sound quite contemporary in this respect. For example, he argues (143) that the first half of a geminate voiceless stop (as in ku-oppa ‘to become a pauper’) is to be associated with a mora, and is thus tone-bearing. Analytically, we would associate this mora with a Low tone, and the surprising consequence of this, Tucker notes, is that this Low tone does indeed trigger downstep on following overt High tones. He proceeds further to argue (155), on tonal grounds, that the syllable must be maintained as a distinct unit, as well as on the grounds that the syllable is the unit which cannot contain more than two moras.

2.4 Vowel harmony

The treatment of vowel harmony in Igbo was an important example in the armamentarium of the Firthian linguist. Treatments by Ward (1936) and Carnochan (1966) were significant steps, and deserve our attention. Carnochan analysed the Igbo vowel system into three distinct equilodent (bivalent) features which he called: L/R (today we would say ATR), H/L (high/low), and Y/W (front/back or unround/round). Two of these, L/R and Y/W, are prosodies, but H/L is not prosodic, presumably because there is relatively little evidence that it spreads from one phonemic unit to another. Had there been more evidence of the feature low/high spreading, he would have extracted, or factored out, three prosodies, leaving him with abstract V elements. This would have been an important good thing, I think it is fair to say, because there is a suffix which Carnochan suggests cannot be defined as anything but an empty V-slot (as we might put it today) and which he indicated by schwa /ə/. Thus we end up with the following representation in (1), which is Carnochan’s, which we might compare with an autosegmental rewriting of this as in (2), or a more thoroughgoing autosegmental re-interpretation as in (3). Perhaps Carnochan felt some theoretical discomfiture with the idea of extracting out all phonological material into prosodies in the general case; in any event, he did not do so, even when it seems attractive to us today. Perhaps his notation encouraged the choice he made, because he expresses prosodies in the established Firthian way, resembling a kind of logical notation, with phonemic ones as if they were arguments, and the prosodies were the functors, as in (1).

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linguists as R. C. Abraham and J. T. Bendor-Samuel, to mention just two. When I looked for additional resources to develop the theory further, I went to find good grammars, and good grammars are necessarily based, to be sure, on the good linguistic insights of their authors. In the event, I found the grammar of Igbo published by M. M. Green & G. E. Igwe (1953), which was heavily influenced by the work of another linguist from the School of Oriental and African Studies, Ida Ward (1958), a linguist influenced, in turn, by J. R. Firth at SOAS. Green & Igwe made little or no effort to develop a set of general rules for the material that they gathered, but the care and attention they gave to the tonal material, and the weight that they assigned to tone in the organization and presentation of their material, showed clearly their perception of the importance of these tonal factors for understanding the underlying phonological structure of the Igbo language. They also had a clear sense that apparent allomorphicity in the language could reflect at times the syntactic structure of the Igbo sentence, and an understanding that the apparent variation in the tone patterns on the verb in the various tenses must actually be the reflection of some deeper set of regularities in the language. It was this sense, I am convinced, that made subsequent autoeg Mental analysis using an autonomous tonal tier possible within an auto- segmental framework.

Early generative thinking about African tone was not very successful, and much of it had little effect even on generative thought. Carroll's (1966) generative account of Igbo syntax and phonology, for example, did not apply early generative techniques to the point of developing new insights into the language. Work such as that of Edmondson & Bendor-Samuel (1966) on Efing, and Arnott (1964) on Twi, which was prosodically based, was more influential, even among generativists. Arnott's work on Twi led to a reanalysis by McCawley (published, 1978), which in turn drew the attention of Leben in his influential dissertation (1973), and of Goldsmith (1976), and most recently Pulleyblank (1980). On the earlier treatment of Twi, for example, if we look for it, we can be struck — and I believe we should be — by the continuity in the description and the analyses of these authors. In the case of all the

NOTES AND DISCUSSION

authors but the last, Pulleyblank, the focus was on the 'tonal melody' as a unit, and how to treat this object that is distinct from the string of segments or phonemic units. There is a constant core of a body of data to be attended to, and to be reworked with tools and varied from case to case; but concern for the same core phenomenon lurking behind the data links all these analyses, despite changes in theoretical stance. This is a prime example of the coherence that African linguistics tends to linguistic research and scholarship.

3.2 Quantity and syllable structure

The work on Luganda syllable structure by Tucker mentioned above has been fruitful in its effects on recent work in theoretical phonology. In an article that circulated in a number of drafts before being published in 1985, Clements developed an account within an autosegmental model utilizing a skeletal tier that incorporated Tucker's insights and developed more deeply our understanding of syllable structure, and a number of researchers have subsequently pursued these notions in the Banjo context and elsewhere (see Katamba, 1985, and Borowsky, 1983). More generally, of course, the syllable as a unit in phonological theory has become indispensable, in one form or another.

3.3 Vowel harmony

A striking example of acknowledged influence of prosodic thinking on generative theory can be found in Fromkin (1965), in which she studies the segmental inventory and the morphological and syllable structure of Twi and its system of vowel harmony, drawing on her own work on Twi as well as on such Firthians as Berry (1952) and Carnochan (1960), and on work by Boa (1965), which is more Husainian in its phonological style. Fromkin begins, in fact, by suggesting that 'the incorporation of certain principles of the British system-structure or prosodic approach into the phonological component of a transformational grammar of Twi may provide a simpler and more revealing description' (1965: 601). She goes on to observe that while generative phonology of that period is adequate for its own ends, the goals of a generative treatment are more limited than those of Firthian analysis, which 'starts with the assumption that language is patterned activity, and requires that all the patterns which occur must be made explicit' (605). She suggests that a generative account of vowel harmony, while adequate for a description of the facts, is more complex formally than an account in which the harmonizing feature is extracted and situated just once in each phonological word; such an account, which is second nature to a Firthian, offers a directness of analysis and 'a more satisfying description of the language'. This article is in some respects an ideal (but also unusual) model
of the ways in which influences can leap across theoretical chasms and leave their footprints when they land.

4. Prosodies, autosegments, and rules

It might become easy—too easy—to draw the conclusion that Firthian phonology already contained, in its essence, the key ideas in auto-


tsegmental theory. It has already suggested one reason why I do not believe that this is correct, and in general it is important, when looking at the


history of linguistic theories, not to jump from the first step, in which we find scholarly continuity between two successive stages, to the second, which

holds that the two stages are just one. Perhaps it is the fear of this admittedly


illogical jump that drives some linguists to exaggerate the lack of scholarly


continuity with the past in their own work. Be that as it may, we would be


wise to recognize some major differences between Firthian and current


autosegmental and metrical theory.


In addition to the fact that autosegmental analysis imposes a linear


analysis into segments on each tier, the models offer a number of other


differences. Tiers are defined with respect to a fixed set of features, and are


homogeneous in that respect: a tier cannot contain here one feature, and


there another, while Firthian prosodies can have just that characteristic.


Autosegmental phonology—at least in the first fifteen years of its existence—


has been essentially linked to the traditional generative conception of


ordered phonological rules, which again is inconsistent with the practices of


Firthian phonology. Other aspects of autosemantic theory have become


significant only because of certain premises that derive from generative


theory and which Firthian theory, in the broadest sense, never encouraged


researchers to pursue. The clearest examples of this sort involve the
determination of the dividing line between Universal Grammar (read: theory)


and language-particular description. Is the Obligatory Contour Principle, prohibiting two successive identical segments, language-particular or


universal? What consequences does that have for other analyses? Under


what kinds of conditions is association between two elements automatic, and


under what conditions will it only be effected by language-particular rules?


These kinds of question have only been studied at length in autosemantic


analysis, and have no counterpart in Firthian work.


The Firthian approach to word-level regularities of any kind was to posit


a prosodic—e.g. a regularity of the mundane sort in which a syllable-final


coronal was devoiced. In our current conception of phonological theory,


the part of the grammar responsible for such generalizations is quite separate


[3] I was tempted to write: “Was SOAS the Port Royal of non-linear phonology?” But in the

case of the Port Royal grammar, too, all the questions about measuring continuity over

disparate traditions remain theory and unsettled.


NOTES AND DISCUSSION

from the strictly autosegmental part, which up till now we have seen as the

part most directly tied to Firthian prosodies. In our current view, there are

phonological rules, segregated into various components, which interact with

well-formedness conditions on phonological structures such as the syllable

and the foot; there are, in addition, several levels of phonological

representation, though the details remain here a matter of considerable

disagreement and research. In short, while the continuities between Firth and

current work are real enough, no one should allow themselves to overlook the

even greater disparities that separate prosodic analysis from the more

articulated theories of our present decade.


5. Conclusions

In this brief note, I have discussed the continuity that African linguistics

offers to linguistics, and focused on the relationship between Firthian

linguistics and current autosemantic and metrical phonology. I could have

chosen other examples, to be sure; African linguistics has equally served as

a link between the work of French and Belgian Bantuists and that of current

theoreticians, as is, I believe, well known. That would be a story for another
day, with a similar moral; similar stories could be told regarding Pike’s work

on syllable structure and so forth.


My review has attempted to be descriptive rather than normative—to

provide a perspective from which the continuities that we perceive in our

professional lives make sense, and from which there are, correspondingly,

fewer ironies—ironies like the ‘rebirth’ of the study of the syllable, or of tone

or of prosodies more generally. In acknowledging that I am being descriptive

rather than normative, I trust it is none the less clear that I personally believe

that the continuity that African linguistics provides is a good thing; what

remains an open question, in all seriousness, is whether the divisive effects

of linguistic theory are avoidable. I certainly do not wish to be taken to be

saying that working on linguistic theory makes a person narrow-minded and

unaware of what happens outside their own framework, nor do I wish to be

understood as saying that theorists are that way. After all, many linguists

feel comfortable wearing both the hat of the African linguist and the

hat of the linguistic theorist. What I do believe (though I have not

substantiated this in these pages) is that as a professional and social matrix,

linguistic theory can all too easily be taken, and has often been taken,

to provide a rationalization and a justification for what I referred to

before as the Balkanization of linguistics—the unfortunate lack of com-

munication across frameworks or paradigms. It is not the theory per se

that causes the fragmentation; it is, rather, that theory provides a convenient

[3] This is hardly the place for developing what I take to be the current view of phonology,

but I have done this elsewhere (Goldsmith, 1990).
means for justifying an otherwise unfortunate, and ultimately unhealthy, narrowness.

But it can only be healthy to be aware of the nature of discontinuity in linguistic theory, so that we may not share the misplaced outrage and apparent frustration of a writer such as Geoffrey Sampson, who, writing in 1960, spoke despairingly of autosegmental phonology as a set of "half-baked places" (meaning outside of MIT, of course), work that is "not rejected, just ignored" (235), and which is a re-invention of Firthian phonology "without invention of prosodic phonology: it is a different model which has intentionally maintained the insights of the prosodic school, while providing syllable analytic possibilities for the treatment of tone, vowel harmony, and in a number of areas where Firthian phonology had not succeeded in shedding light.

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REFERENCES
[8] This is not true, I might add. In Goldenstein (1971: 15) I observe that a prime motivation for the study of supersegmentals within the framework of generative phonology is that generative phonology is not as equipped as Firthian analysis to treat problems of supersegmentals.

NOTES AND DISCUSSION

162
163