- . 1975. A lexicostatistical study of Plateau languages and Jukun. Anthropological linguistics 17:413-18.
 . 1979. Five wordlists with analyses from the northern Jos group of Plateau languages. AuÜ 62.4:253-71.
 . 1980. A Jukun grammar. Veröffentlichungen der IFAA der Universität Wien, Beiträge zür Afrikanistik, 11. Vienna.
 . 1982a. Ten more wordlists with analyses from the northern Jos group of Plateau languages. AuÜ 65.1:97-134.
 . 1982b. Die Nord-Jos-Grouppe der Plateausprachen Nigerias. AuÜ 65.2:161-210.
 Sibomana, Leonidas. 1980. Grundzüge der Phonologie des Tarok (Yergam). AuÜ 3.2:199-206.
 . 1981a. Tarok II: Das Nominalklassensystem. AuÜ 64.1:25-34.
 . 1981b. Tarok III: Das Verbalsystem und der Satz. AuÜ 64.2:237-47.
 . 1981c. Tarok-Erzählungen. AuÜ 64.2:237-47.
 Stofberg, Yvonne. 1978. Migili grammar. Language data microfiche, African series, 12. Dallas: SIL.
- Voeltz, Erhard. 1977. Proto-Niger-Congo verb extensions. Ph.D. dissertation, UCLA.
- Williamson, Kay. 1971. The Benue-Congo languages and Ijo. CTL 7:245-306.
- Wolff, Ekkehard and Ludwig Gerhardt. 1977. Interferenzen swischen Benue-Congo und Tschadsprachen. ZDMG supp. III.2:1518-42.
- Wolff, Ekkehard and Hilke Meyer-Bahlburg. 1979. Morphologie und Semantik der erweiterten Verbalstämme in der Sprache der Afuzare (Zarek). AuÜ 62.1:1-38.

18 Cross River

Nicholas G. Faraclas

18.0 INTRODUCTION

The Cross River languages are spoken by some sixty language communities found primarily in the Akwa Ibom, Cross River, and Rivers States of southeastern Nigeria. The Cross River-speaking area is loosely bounded by Ijoid, Edoid, and Igboid speakers to the west, Idomoid and Bantoid (especially Tiv) speakers to the north, and by Bantu speakers to the east. Southeastern Nigeria is one of the most densely populated parts of Africa and one of the most linguistically diverse areas of the world. Contact between different language groups is constant and intimate.

The Efik of Calabar were among the earliest groups along the Guinea Coast to establish trade relations with European merchants. The rise of Calabar as a key link in the transatlantic trade led to its development as a point of assimilation and dissemination of nonindigenous commodities, culture, ideas, etc., for all of what today constitutes southeastern Nigeria and western Cameroon. Calabar's power and prestige also led to the use of its language, Efik, as a lingua franca in the region, along with Igbo and Nigerian Pidgin.

18.1 EARLY SCHOLARSHIP

A fairly complete summary of published materials on the Cross River languages is provided in CTL7. The following paragraphs include a brief description of works written since the early 1970s.

Discussion of early work on Cross River languages appears in Winston (1964, 1965) and U. Essien (1970a). Besides lists by Koelle (1854)

¹I would like to thank Professor Kay Williamson and Bruce Connell for reading drafts of this chapter and for sending me their helpful comments.

Cross River

and Talbot (1926), word lists of several Cross River languages collected by Cook are included in Williamson and Shimizu (1968) and Williamson (1973c). Both Cook and Williamson have also done considerable unpublished work. Some general remarks concerning Cross River languages may be found in Bouquiaux (1981) as well as more detailed descriptions of noun class systems (Voorhoeve and De Wolf 1969: De Wolf 1971), vowel systems (Williamson 1983), and reduplication (Faraclass and Williamson 1984).

378

The Bendi languages remain almost completely unstudied, apart from Stanford's (1967) Bekwarra grammar, a work on Bokyi (Tawu-Asu 1977), long essays on Bete (Briggs 1972; Oni 1975), and some unpublished items by Crabb, Peterson, Crane, and Burns.

A survey of Upper Cross consonantal systems and a reconstruction of the consonants of proto-Upper Cross appear in Sterk (1979) and Dimmendaal (1978). Since Revill (1966) wrote on Mbembe, Barnwell has written a grammar as well as descriptions of noun classes and suprasegmentals (1966, 1969b, 1974). Besides Winston's (1962) studies on Loke there are also those of Bendor-Samuel (1971) on syllable structure. Berry (1974) on suprasegmentals, Runsewe on tone and noun classes (1980) and vowel harmony (1982), and Iwara's (1983) phonology and grammar. Kohumono noun classes are described in Sterk (1976). Spreda and Spreda (1966) and Bendor-Samuel and Spreda (1969) remain the only published works on Legbo. An analysis of Agwagwune vowels (Williamson 1973a), notes on Doko (Simmons 1970; Cook 1970), as well as several long essays on Agoi and other Upper Cross languages have also been written. A grammar of Kukele has reportedly been prepared by J. Fajen.

Connell, Ekere, and Faraclas have begun comparative work on the Lower Cross languages. Preliminary analyses by Connell indicate that several previously unreported Lower Cross languages exist, including Enwang, Idua, Ebughu, Uda, Efiat, Itu Mbon Uzo, and Usakade (Isangele). While the works of Waddell, Goldie, Ward, Adams, Gaskin, Green, and Oyohyoh established Efik's position as one of the best studied languages in Africa throughout the colonial period, other Lower Cross languages received little or no attention until recent times. The excellent work of Welmers, Winston, Cook, O. Essien, U. Essien, and Simmons have done much to bring Efik studies into the modern era. Studies on Ibibio include the early work of Simmons, followed by Kaufman's grammar (1968) and dictionary (1985), phonological analyses (Boys 1972;

Garnes 1976) as well as the numerous works of O. Essien. For Anaang only Messenger (1960) and U. Essien (1970a) are available, while for Oro an account of verbal morphology by Kuperus (1978) supplements some nreliminary work by Simmons (1956b, c, 1965). Materials on Obolo include a grammar, a phonology, and various articles on phonology and morphosyntax (Faraclas 1983, 1984a, b, and c). Works on Obolo dialectology and discourse (Aaron) and on Eket, Okobo, Ibuno, and Usakade (Simmons; Connell) are forthcoming. Several long essays have also been written on Lower Cross languages at the University of Calabar.

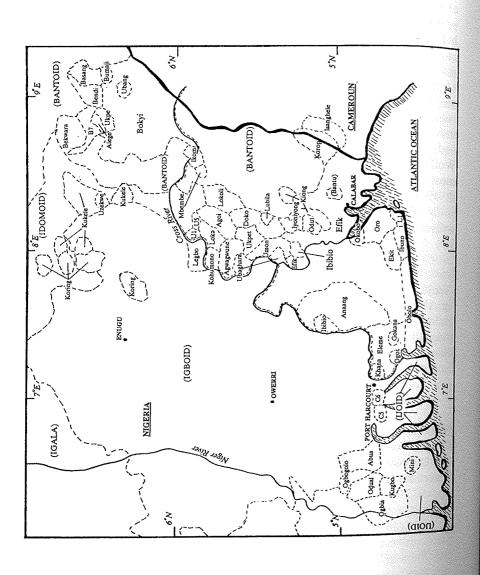
The Ogoni languages were first documented and analyzed by Wolff (1964) and Brosnahan (1964, 1967). Gokana has been the subject of most recent works (Hyman and Comrie 1981; Wagner 1984; Hyman 1982ad. 1983, 1984b, c, d). Williamson (1985) has published a comparative study of the Ogoni languages, and long essays on Khana have been written at both Port Harcourt and Ibadan.

A comparative vocabulary of several Central Delta languages (Wolff 1969), a grammatical sketch of Abuan by the Gardners (1968), and an Abuan dictionary (Gardner 1980) have been published. An account of assimilation (Williamson 1972) as well as preliminary works on morphosyntax (Isukul 1982, 1983) now exist for Ogbia. Long essays on Central Delta languages have been written at the University of Port Harcourt.

Literacy in Efik is quite widespread in Cross River State of Nigeria. Bendi, Upper Cross, and Lower Cross literacy projects have been designed on a language-by-language basis, whereas literacy programs for the Ogoni and Central Delta languages have been integrated into the Rivers Readers Project, based at the University of Port Harcourt.

18.2 CLASSIFICATION

Figure 18.1 represents the most recent classification of Cross River languages. Bendi and Central Delta classifications are based on Williamson (CTL7), Hansford, Bendor-Samuel, and Stanford (1976), and Connell (pers. com.):



	Bendi	
	A. Bekwarra (B1)	Anna (10)
	Yakoro	Anaang (L3)
	B. Bete (B2)	Efiat (L10)
	Bendi	Eket (L4) 2. Central
	C. Basang (B3)	
	Busi	Enwang (L11)
	Bisu	Uda (L12) 3. West
I	D. Ukpe (B4)	
	Bayobiri	Ebughu (L13)
E	E. Ubang (B5)	Ibuno (L5) Idua (L14)
F		
(G. Utangwang (B7)	Oro (L6)
	Okorogung	Usakade (L15) Okobo (L7)
	Okorotung	Obolo (L8)
	East Mbube	D. Upper Cross
	Afrike	1. Central
H	I. Bumaji (B8)	a. North-South
I.	Bokyi (B9)	1a) Koring (U1)
D	elta-Cross	b) Kukele (U2)
A	. Central Delta	Uzekwe (U3)
	1. Abua (C1)	2a) Ubaghara (U4)
	Odual (C2)	b) Kohumono (U5)
	2. Kugbo (C3)	Agwagwune (U6)
	Ogbia (C4)	Umon (U7)
	Ogbronuagum(C5)	b. East-West
	Obulom (C6)	1) Ikom-Olulumo (U8)
	Ogbogolo (C7)	2) Loka (U9)
	Mini (C8)	a) Lokoli (U10)
В.	Ogoni	b) Lubila (U11)
	1. West	3) Mbembe (U12)
	Eleme (O1)	a) Legbo (U13)
	Ogoi (O2)	1] Leyigha (U14)
	2. East	2] Lenyima (U15)
	Khana (O3)	2. Ukpet-Ehom (U16)
	Gokana (O4)	3. Agoi (U17)
C.	Lower Cross	Doko (U18)
	1. East	Iyoniyong (U19)
	Efik (L1)	4. Kiong (U20)
	Ibibio (L2)	Korop (U21)
	Itu Mbon Uzo(L9)	
	` '	

FIGURE 18.1 Classification of Cross River languages

The classification of Ogoni is based on Williamson (1968, 1985); that of Upper Cross on Dimmendaal (1978) and Sterk (1979); and Lower Cross on Cook and Ita (1967).

Few have questioned Greenberg's (1963) classification of Cross River as a subbranch of Benue-Congo, but his internal division of Cross River into three groups (Cross River 1, 2, and 3) has been considerably modified. Crabb (1967, 1968) noted the close relationship of Greenberg's Cross River 1 with the Bantoid languages and its distant relationship to both Cross River 2 and Cross River 3 (which he grouped together as 'Cross River', as opposed to Cross River 1, which he renamed Bendi). In CTL7 Williamson pointed out that the distinctions between the subgroups of Greenberg's Cross River 2 (the present Lower Cross, Ogoni, and Central Delta - plus a few Upper Cross languages) are at least as great as those between Greenberg's Cross River 3 (a majority of the present Upper Cross languages) and any subgroup of Cross River 2. Williamson collapsed Cross River 2 and 3 into one group, later named Delta-Cross by Cook. Cook then divided Delta-Cross into 4 subgroups: Upper Cross, Lower Cross, Ogoni, and Central Delta. Cook's work has contributed greatly to this reclassification.

The following inventory lists the Cross River languages, variations in the pronunciation and/or spelling of their names, approximate number of speakers of each, and major dialectal divisions. The population figures given (based on 1953 or 1963 census data) are rough and generally conservative estimates.

The distinction between dialect and language in this list is based as much as possible on mutual intelligibility. As Wolff (1959b) shows, this criterion is not always reliable. For example, while Khana speakers claim to understand Gokana, speakers of Gokana, probably due more to sociopolitical than to linguistic factors, claim not to understand Khana.

LANGUAGE NAME (WITH VARIATIONS)		APPROX. No. OF SPEAKERS	MAJOR DIALECTS
в. в	ENDI LANGUAGES		
B1	Bekwara (Bekworra(h) under B7?) Yakoro?	100,000	
B2	a. Bete (Bette, Dama) b. Bendi		
В3	'Obanliku' (Abanliku) a. Basang (or dialects?) b. Busi c. Bisu (Gayi) d. Bishiri e. Bebi	65,000	chain of languages

LA (W	NGUAGE NAME ITH VARIATIONS)	APPROX. No. OF SPEAKERS	MAJOR DIALECTS
B5 B6 B7	a. Ukpe b. Bayobiri Ubang Alege a. Utungwang b. Okorogung c. Okorotung? d. Eastern Mbube (Mbefal, Obe,Oboso, Mbe afal, 'Mbe two') e. Afrike		chain of languages (or dialects?)
B8 B9	Bumaji Bokyi (Boki, Nki, Okii, Uki, Nfua)	140,000	Western Northern Eastern Middle Southern
J. U	PPER CROSS LANGUAGES		
J 1	Koring (Oring, Orri)	75,000	Ufia Ufiom (Effium) Utonkon
J2 13 14	Kukele (Ukele, Ukelle) Uzekwe (Ezekwe) Ubaghara	95,000	Okpoto Northern Southern Ugbala? Iteeji (Mtezi)? Biakpan Ikun Etono I? Ugbem? Utuma?
5	Kohumono Agwagwune (Gwune, Akunakuna) Umon?	30,000	Central Ebom? Anong? Central Western (Bini) Northern (Dim) Southern Ezei (Erei)
0]	Umon (under U6?) a. Ikom b. Olulumo Lokə (Lokəə, Loko, Yakur(r), Yakur(i), Yako, Ko) Lokoli (Nkukoli, Nkokolle, Eduri) (under U8?) Lubila (Ojor, Kabila) (under U8?)	25,000 5,000 120,000	Abayongo

LANGUAGE NAME (WITH VARIATIONS)		APPROX. No. OF SPEAKERS	MAJOR DIALECTS
U12	Mbembe	100,000	Ofunobwan Oderiga Wakande Ofombonga Osopong Adun Okam
U13	Legbo (Agbo, Gbo)	60,000	Ekama Letatama
U14	Leyigha (As(s)ig(h)a, Yigha) (under U9?)	10,000	Lebamal
U15	Lenyima (Inyima) (under U9?)		1
U16 U17	Ukpet - Ehom		Ukpet, Akpet Ehom, Ubeteng
	Agoi	12,000	Dialect A Dialect B
U18 U19	Doko (Uyanga, Basanga, Iko) (under U17?) Iyoniyong (Bakpinka)		
	(under U17?)	becoming extinct?	
U20	Kiong (Akoiyang, Akayon, Okoyong, Okonyong)	near extinction	
U21	Korop (Ododop) (under Ú20?)	extinction	
(U22)		(extinct?)	
L. LC	OWER CROSS LANGUAGES		
_1	Efik (1st language) (2nd language)	360,000 2,000,000	Calabar
.2	Ibibio	2,000,000	Central Itak Nsit Nkari
.3	Anaang (Annang, Anang)	400,000	Ikot Ekpene Abak
A	Eket (Ekit)	35,000	Ukanafon Central 2 other dialects?
.5 .6	Ibuno (Ibino, Ibeno)	10,000	
	Oro (Oron) Okobo	75,000 20,000	2 dialects?
7 1		20,000	4 uiaicels:
.7 .8	Obolo	100,000	Western Northern Eastern

LA (W	NGUAGE NAME ITH VARIATIONS)	APPROX. No. OF SPEAKERS	MAJOR DIALECTS
L10		10,000?	
L11		25,000	
L12	1	10,000?	
L13		15,000	1
L14		17,000	1
L15	Usakade	10,000	
0.0	OGONI LANGUAGES		
01	Eleme	50,000	
02	Ogoi	10,000	1
03	Khana (Kana)	200,000	Southern
)4	Gokana	100,000	Northern Tai
2 . C 2	ENTRAL DELTA LANGUAGE	S	
1	Abua (Abuan)	25,000	Central
2 3	Odual Kugbo	Okpe Ogho (Sout Emug	Okpeden (Southern) Oghozo (Southeastern) Emugan (Northwestern)
4	Ogbia (Ogbinya)	200.000	
	· · · · · · · · · · · · · · · · · · ·	200,000	Kolo (Eastern)
			Anyama (Western)
5	Ogbronuagum (Bukuma)		Oloibiri (Western)
6	Obulom (Abuloma)		
	Ogbogolo		
7	Mini (under C3?)		

FIGURE 18.2 An inventory of Cross River languages

18.3 PHONOLOGICAL CHARACTERISTICS

18.3.1 SYLLABLE STRUCTURE

Cross River languages lie midway along the Benue-Congo continuum of canonical root structure, which stretches from -CVCV roots in the eastern subbranches to -CV roots in the western ones, so that, while both -CVCV and -CV roots are normally present in Cross River languages, the group is typified by -CVC (and, to a lesser extent, -CV:C and -CV:) roots. Consonant glide onsets are found in most languages; /j/ is

more common than /w/ in such structures, with glides usually in free variation with corresponding high vowels. Consonant-liquid clusters also occur, but can usually be attributed to a late rule of vowel deletion. Sequences of consonants are otherwise unattested. Syllabic nasals occur in all languages, normally as prefixes, but sometimes also word-medially and finally (Central Delta and Ogoni).

18.3.2 CONSONANTAL SYSTEMS

Dimmendaal (1978) reconstructs the following consonants for proto-Cross River (PCR):

/pp/, /tt/, and /kk/ are 'fortis' and /p/, /t/, and /k/, 'lenis'. A similar fortis/lenis distinction in consonants is reported synchronically in Upper Cross by Sterk (1979) and Bendor-Samuel and Spreda (1969). However, convincing arguments against the vague terms fortis and lenis (Jaeger 1983) have been given. Some scholars prefer to describe the distinction between the two voiceless stop series as a long versus short opposition, which seems more precise and will be adopted here. Contrast between normal (longer) stops and short (fricated or tapped) stops occurs in some Central Delta languages (Williamson and Elugbe 1984) as well as in Ibibio and Efik, where they are analyzed as geminate clusters by Kaufman (1968) or 'ambisyllabic'3 by Welmers (1966). The geminate analysis seems simpler and just as adequate as the ambisyllabic analysis and fits within the proposed long versus short framework for all of Cross River. Elsewhere in Delta-Cross the proto-long/short distinction is reflected synchronically in such oppositions as /l/ versus /r/ in Obolo and Eleme, and /p/ versus /b/ in Khana. As for the probable source of the long/short distinction, the suggestions of Bendor-Samuel and Spreda, which include 'shrinkage' of reduplicated or composite roots as well as the fusion of consonants across root-suffix boundaries, seem plausible and correspond to the limited and skewed distribution of long stops (or their synchronic reflexes). The persistence of the long/short distinction in stops in Upper

Cross, at least, appears to be an areal phenomenon (Sterk 1979) with northern and western languages being more conservative than southern or eastern.

Several additions to the basic inventory of consonants have been proposed. Although Dimmendaal reconstructs no fricatives for proto-Cross River, /f/ and /s/ are found throughout the subbranch in many languages. It seems that /f/ and /s/ may have developed from original stop consonants; this process must have been at work even before the Bendi/Delta Cross split took place. /s/ was probably the product of the first of several waves of stop palatalization; these yielded a palatal nasal /n/ and eventually an entire palatal stop series or an alveolar palatal affricate series, especially in Bendi and Ogoni but sporadically elsewhere as well. 4 Sterk reconstructs a full series of long stops /bb, dd, tt, gg, kkw, ggw kkp, ggb, nn, mm, nn/ for proto-Upper Cross, alongside /ll/ and /ww/. Dimmendaal is more conservative, adding only /n/, /j/, /w/, and /gb/ to the proto-Cross River inventory for his proto-Upper Cross consonant set. Implosive /6/ and /d/ are found in the Central Delta languages as well as in isolated cases in Upper Cross (e.g., Ufia). The glottal stop /9/ is phonemic in all of the Ogoni languages.

Consonants are distributed as follows. In roots of the shape:

$$-C_1V_1C_2(V_2)$$

the root initial (C_1) slot may normally be filled by any consonant.⁵ All distinctions of manner of articulation (but not place), except the oral-nasal distinction, are neutralized in C_2 position, so that almost everywhere in Cross River only a single labial (usually [b] or $[\beta]$, but sometimes [w]), a single alveolar (usually [d] or [r], sometimes [l], [r], or [j]), and a single velar (usually [g] or $[\gamma]$, sometimes [l] or [r]) may occur, in addition to their nasal counterparts, root medially or root finally. Root final position C_2 is often devoiced and unreleased. Some languages allow two different oral alveolar consonants to occur in C_2 position. This is perhaps a relic of the long/short opposition between alveolar stops in the proto-language.

²Consonant-liquid sequences in Legbo are a possible exception; see Bendor-Samuel (1971).

 $^{^3}$ According to Welmers, 'ambisyllabic' consonants belong both to the coda of one syllable and the onset of the following syllable.

⁴Bouquiaux (1981) seems to overgeneralize when he states that a series of palatal stops or alveolar fricatives tends to characterize the entire subbranch. In Lower Cross, for example, /z/, /c/, and /ʒ/ are never distinctive, while /tʃ/ and /dʒ/ occur phonemically only in and, perhaps, Ibuno have /tʃ/.

 $^{^{5}/\}mathfrak{y}/$ is normally realized $[\mathfrak{y}^{W}]$ in root initial position. In some languages $/\mathfrak{y}/$ may

18.3.3 VOWEL SYSTEMS

A full range of vowel systems representing varying degrees of retention/simplification of the proto-Benue-Congo ten-vowel [±wide pharynx] ([±ATR]) harmony system is found.⁶ Most Central Delta languages and at least Kohumono in Upper Cross have full ten-vowel harmony systems. Agwagwne (Adim) has a nine-vowel harmony system with the /a/ - /a/ opposition neutralized, while Loka and Mbembe have eight-vowel harmony systems with the [±wide] distinction neutralized for high vowels. (Bokyi of the Bendi group may have a similar system). Most Bendi and all Ogoni languages have seven-vowel systems with the [± wide] distinction limited to the mid-vowels. Lower Cross systems consist basically of six vowels, the [±wide] feature relevant only for the mid-back vowel, although some relics of the /e/ versus /ε/ distinction seem to have survived in Efik and Oro. Phonemic centralized vowels have been reported for Ibibio by O. Essien and for Anaang by U. Essien. In general, only relics of the original harmony system have survived in Ogoni and Lower Cross.

Nasalized vowels are phonemic in all Ogoni languages; five nasalized vowels contrasting with seven oral vowels (the $[\pm wide]$ distinction is neutralized for mid-nasal vowels). No Cross River language outside the Ogoni group (except possibly Alege in the Bendi group) appears to have significant contrastive nasalization.

Vowel length is contrastive in all Ogoni and Central Delta languages, as well as in some languages of every other subgroup of Cross River. The fact that in most Cross River languages VV sequences involving vowels of different qualities do not occur underlyingly would indicate that two indentical vowels should be analyzed as long, rather than as a sequence of like vowels. In languages like those of the Ogoni group where unlike VV sequences as well as long series of underlying vowels are possible, this question remains open.

18.3.4 INTONATION, ACCENT, STRESS, AND TONE

All Cross River languages have systems of contrastive tone that co-occur and interact with intonational systems such as downdrift, register raising, boundary-related (demarcative) pitch-level modification, etc. Most have two levels of contrastive tone, but the Ogoni languages as well as

some of the Upper Cross and Bendi languages have three level tonemes. Gliding tones and phonemic downstepped high tones are common throughout the subbranch.

At least some languages of every group for which instrumental or impressionistic data are available have different types of stress and/or accent systems co-occurring and interacting with both tonal and intonational systems. Typical stress patterns involve the parsing of utterances into phonological phrases over which a single stress (peak of pitch, duration, and/or perceived loudness) falls, the pragmatically or grammatically controlled emphasis of certain 'focused' items, etc. (see Faraclas 1984c). Typical accent patterns include assigning a single pitch pattern over each member of a given verb class regardless of the number of syllables it structions, etc.

18.4 MORPHOLOGICAL CHARACTERISTICS

18.4.1 NOMINAL CLASS-CONCORD SYSTEMS

Figure 18.3 shows Cross River nominal class-concord systems that typify almost every possible stage of simplification of the proto-Benue-Congo system⁷, from full retention in some conservative Upper Cross and Bendi languages to near complete elimination in the Ogoni group. An examination of the extent to which neighboring non-Cross River Niger-Congo languages tend to retain, modify, or abandon the proto-class-concord system suggests that areal processes due to language contact may be at work.

While the typical proto-Benue-Congo prefix shapes (CV- or V-bearing contrastive tone) have been retained in many Upper Cross and Bendi languages, most have added the syllablic nasal (N-) to their inventory of possible shapes⁸. Outside of Upper Cross and Bendi, the CV-shape is lost altogether (Lower Cross and Ogoni) or incorporated into roots via a process of pre-prefixing (Central Delta). In most Lower Cross languages, a small number of nouns occur with no apparent prefixes. In

 $^{^{6}\}mathrm{The}$ remarks of Bouquiaux (1981) concerning vowels seem to be applicable to the Ogoni group only.

⁷Again, Bouquiaux (1981) seems to be off the mark.

⁸ Cross River languages provide some interesting evidence as to the possible source of the N- prefix, which occurs quite commonly throughout Western Benue-Congo as well as (akin to PBC *ma-?) as found, for example, in Ibibio or Oro.

the Ogoni group, distinctive tone is lost over prefixes almost everywhere, while N- prefixes are lost in all languages except Eleme and Ogoi and V. prefixes are retained only in Eleme. In Khana and Gokana, nouns are essentially prefixless as a result of these developments.

PREFIX SHAPE	CONCORD POINTS	NOUN CLASSE
*PBC CV-, V- Kohumono (U5) CV-, V-, N- Ukele (U2) Lokə (U9) Mbembe (U12) Bokyi (B9) V-, N- V-, V- CV- Oro (L6) Central Delta (all) V-, N-, Ø- Efik (L1) Anaang (L3) Ibibio (L2) Obolo (L8) -, N-, Ø- Eleme (O1) , Ø- Ogoi (O2) Khana (O3) Gokana (O4)	*PBC Full concord Lokə (U9) Bokyi? (B9) Full concord except numerals Kohumono (U5) Ukele (U2) Mbembe (U12) Alege? (B6) Central Delta (all?) Relics of adjective and subject-verb concord only Oro (L6) Efik (L1) Ibibio (L2) Anaang (L3) Relics of subject-verb concord only nouns only Obolo (L8) Ogoni (all)	*PBC Full class/ gender distinction Upper Cros (all?) Bokyi (B9) Partial merger of [-HUMAN]nouns to O-/I- Kugbo (C3) Odual (C2) W. Ogbia (C4) Full merger of [-HUMAN] nouns to O-/I- Abuan (C1) E. Ogbia (C4) Relics for both [±HUMAN] nouns Oro (L6) Eket (L4) Relics for[+HUMAN Efik (L1) Anaang (L3) Ibibio (L2) Obolo (L8) no distinctions Ogoni (all)

FIGURE 18.3 Reflexes of the proto-Benue Congo nominal class-concord system in Cross River

Full or complete concord between nouns and morphemes associated with them in a given structure (adjectives, demonstratives, relativizers, etc.) as hypothesized for proto-Benue-Congo is retained in most Upper Cross, Bendi, and Central Delta languages, except for noun-numeral concord, which is restricted, fossilized, or completely lost in most

cases. In Lower Cross and Ogoni, only subject noun-verb concord normally survives, except in Oro where limited noun-adjective concord persists. In Efik, some otherwise prefixless nouns 'regain' their prefixes when modified by certain adjectives (e.g., bùd 'shame' versus à-kámbá óbud 'great shame', see Cook and Ita 1967), suggesting that concord is processed more like a prosody over noun phrases than via a noun-based prefix-copying system (see Demuth, Faraclas, and Marchese 1986;

While nouns in most Upper Cross and Bendi languages show class marking and gender patterning more or less traceable to proto-Benue-Congo, nouns referring to non-human entities are collapsed into a single 0-/I- gender in the Central Delta languages. In Lower Cross, Ogoni, and, to a lesser extent, in Central Delta, proto-Benue-Congo noun class-gender classification is essentially lost through the assimilation of prefix vowel quality to that of root vowels, the loss of CV- prefixes, the proliferation of the N- prefix, as well as through wholesale prefix loss.

18.4.2 VERBAL MORPHOLOGY

Verbs are inflected primarily via a system of prefixes and (perhaps more rarely) suffixes. Focus-related reduplication of verbal stems in Lower Cross involves the lowering of reduplicated vowels, rather than the vowel raising that is the typical Niger-Congo pattern (for further discussion see

OBOLO (L8)

ń-gé íkpá 'I wrote the book'

ń-fùk íkpá 'I read the book' BUT

ń-gê-gè íkpá

n-fô-fùk íkpá

'I wrote (didn't read) the book'

'I read (didn't write) the book'

As in most of Benue-Congo, verb roots in the Cross River languages fall into two (or three?) classes, depending on the pitch patterns normally associated with them. Obolo has a high-tone (or +accent) class, exemplified by gé 'write', and a low-tone (or -accent) class, exemplified by

A pluralizing definite suffix /-zA/ (which contrasts with singular definite /-A/) oc-A pluralizing definite sum /-za/ (which contracts plural prefix markings. In Oro a

18.5 SYNTACTIC AND PRAGMATIC CHARACTERISTICS

18.5.1 WORD ORDER

The basic word order of components is SVO. Noun phrase order is more variable, with 'adjectives' sometimes preceding and sometimes following the noun. This may be more due to the fact that items that function adjectivally may be derived from diverse sources (including verbs of being/becoming, nouns, etc.) rather than due to some syntactic variations ability particular to the category 'adjective' (if such a category can be said to exist in these languages). Demonstratives, articles, possessives, and numerals normally follow the noun.

18.5.2 NOUN PHRASES

As in many Benue-Congo languages, noun-noun associative (genitive) constructions, noun-adjective (or adjective-noun) constructions. and, to some extent, noun-determiner constructions normally bear an accentual pattern that (unless superseded by some other pitch-related system such as stress) imposes a falling pitch pattern over the final syllables of the noun phrase that they constitute.

ORO (L6):

ù-sìm ábá tail dog

òtìdò ù-sìm long tail

[ùsìm ábà]_{NP} 'dog's tail'

[òtìdò úsìm]_{NP} 'long tail'

LOKH (U9):

kò-fè ò-kálán leg white man

[kɔ̀-kálám-fɛ̀]_{NP} white man's leg

or

[kò-fè-kóó-kàlàŋ]_{NP}

OBOLO (L8):

à-kpà -kè lò demonstratives è-gwé gwèrègwèn day six

[àkpâkèlò]_{NP} 'that bag'

[ègwê gwèrègwèn]_{NP} 'six days'

18.5.3 VERB PHRASES AND FOCUS SYSTEMS

In many Cross River languages, verbs constitute single accentual units along with any objects associated with them, each verb (including each verb in a serialized construction) in a sentence receiving a single stress or accent. Pragmatic focus is commonly marked by sentence-level speaker-controlled stress in the world's languages. In the Cross River languages, however, focus systems seem to have undergone varying degrees of grammaticalization. In the Lower Cross group, focus is sensitive to the syntactic position of the emphasized information in relation to the verbal root (pre-verbal, post-verbal, etc.) and must be marked in the verb phrase itself, rather than wherever in the sentence the focused item occurs.

OBOLO (L8) (Falling tone ^ signals stress):

ńgé íkpá íkpá ngè ngêgè íkpá ngê îkpá nbage íkpá

'I wrote the book' 'the book, I wrote (it)' 'I wrote (not read) the book'

'I wrote the book' 'I will write the book' (neutral) (pre-verbal) (verbal) (post-verbal)

(auxiliary)

BIBLIOGRAPHY

Adams, R.F.G. 1934. A revised list of vernacular books available in Ibo, Efik, and Ogoni.

-. 1953. English-Efik / Efik-English dictionary with grammatical notes by I.C. Ward. 2 vols. Liverpool: Phillip.

Akpanyung, O.A. 1951. Guide to the writing of Ibibio. Ikot Ekpene: Hope Press.

. 1962. A study of Efik for schools and colleges. London: T. Nelson.

. 1977. An Efik language handbook for teachers. Yaba: Macmillan.

Asinofu, J. 1976. An attempt at a phonological analysis of the phonology and noun class system of Agoi. B.A. long essay, University of Ibadan.

Barnwell, Katharine G.L. 1966. Notes on the Mbembe clause system--A preliminary analysis. Tagmemic and matrix linguistics applied to selected African languages, ed. by K.L.

-. 1969a. A grammatical description of Mbembe (Adun dialect). Ph.D. dissertation,

-. 1969b. The noun class system in Mbembe. JWAL 6.1:51-58.

- 1974. Mbembe. Ten Nigerian tone systems, ed. by J. Bendor-Samuel, pp. 51-78.

Bendor-Samuel, John. 1971. Yakurr syllable patterns. Word 25:16-23.

–, ed. 1974. Ten Nigerian tone systems. SNL 4.

and K. Spreda. 1969. Fortis articulation: A feature of the present continuous verb in Agbo. Linguistics 52:20-26.

- Berry, Elaine. 1974. Yakurr. Ten Nigerian tone systems, ed. by J. Bendor-Samuel, pp. 79-86.
- Bouquiaux, Luc. 1981. Les langues bénoué-congo-classification. Les langues de l'Afrique subsaharienne, ed. by G. Manessey. Les langues dans le monde ancien et moderne 1:167-69. Paris: CNRS.
- Boys, W.E. 1972. Ibibio phonology. Ph.D. dissertation, Ohio State University.
- Briggs, K. 1972. An introductory description of the Bete language. Postgraduate Diploma long essay, University of Ibadan.
- Brosnahan, L. 1964. Outlines of the phonology of the Gokana dialect of Ogoni. JWAL 1,143.
- -. 1967. A wordlist of the Gokana dialect of Ogoni. JWAL 4.2:43-52.
- Connell, Bruce. 1985. A comparative study of the Lower Cross language group. JOLAN 3:105-
- ___. 1987a. Noun classification in Lower Cross. JWAL 17.1:110-25.
- -. 1987b. Temporal aspects of labiovelar stops. Work in progress 20:58-60. Dept. of Linguistics, University of Edinburgh.
- -. 1987c. The historical development of Lower Cross consonants. Paper presented to the 17th Colloquium on African Languages and Linguistics, Leiden, The Netherlands.
- n.d. Lexicostatistics and comparative linguistics: The case of Lower Cross Mimeo.
- -. n.d. Language and prehistory in the Cross River Basin. Mimeo.
- Cook, Thomas L. 1969a. Efik. Twelve Nigerian languages, ed. by E. Dunstan, pp. 35-46. London: Longmans.
- -. 1969b. Some tentative notes on the Kohumono language. Research notes 2.3:1-49. University of Ibadan
 - ____. 1969c. The Efik consonant system. Mimeo. University of Ibadan.
- -, 1969d, Efik, Ekoid, Bamileke, and Bantu. Paper presented to the 8th WALS Congress, Abidjan, March 23-29, 1969.
- 1970. Doko, Uyana, Basana--A brief note. Research notes 7.2:18-28. University of Ibadan.
- -. 1971. Report of the Benue-Congo Working Group of the West African Linguistic Society. Actes du 8e Congrès de la Société Linguistique de l'Afrique Occidentale. Annales de l'Université d'Abidjan, Série H, fasc. hors série, 2:559-74. Abidjan: Université d'Abidjan.
- -. 1975. Language names in the Cross River area. Vakgroep Afrikaanse Taalkunde, Rijksuniversiteit te Leiden.
- -. 1976a. Focus in Efik. Paper presented to the 12th WALS Congress, Ife, March 1976.
 - 1976b. Leiden 150-word list for Cross River sub-classification. University of Leiden, Afrikaanse Taalkunde.
- -. 1977a. Efik. West African language data sheets, 1, ed. by M.E. Kropp Dakubu. Legon: WALS.
- Dakubu. Legon: WALS.
 - —. 1985. An integrated phonology of Efik, 1. Dordrecht: ICG Printing.

- —— and K.E. Ita. 1967. The pronunciation of Efik for speakers of English. Bloomington.

- Crabb, David W. 1967. Noun classes of Cross River I (bè-ndì) languages. Mimeo.
 - —. 1968. Short word lists of Bendi languages. Mimeo.
- Dada, J.L. 1976. The phonology and noun classes of Agoi. B.A. long essay, University of
- Demuth, Katherine, Nicholas Faraclas, and Lynell Marchese. 1986. Niger-Congo noun class and agreement systems in language acquisition and historical change. Noun classes and categorization, ed. by C. Craig, pp. 453-471. Philadelphia: Benjamins.
- De Wolf, Paul P. 1971. The noun class system of Proto-Benue-Congo. The Hague: Mouton.
- Dimmendaal, Gerrit J. 1978. The consonants of Proto-Upper Cross and their implications for the classification of the Upper Cross languages. Leiden: Department of African
- Donwa, Shirley O. 1976. The phonology and noun class system of Agoi. B.A. long essay,
- Dunstan, Elizabeth, ed. 1969. Twelve Nigerian languages. London: Longman.
- Ekere, Michael. 1984. A comparative study of Anang, Andoni, Efik, Ekit, Ibibio, Ibono, Okobo, and Oron. Seminar delivered to the Department of Languages and Linguistics, University of Calabar.
- 1987. The ideophone in Ibibio. Ph.D. dissertation, University of Calabar.
- Essien, Okon. 1972. The reflexive in Efik. JAfrL 11.2:7-20.
- 1974. Pronominalization in Efik. Ph.D. dissertation, Edinburgh University.
- -. 1975. Personal pronouns in indirect discourse in Efik. Works in progress, 8. Department of Linguistics, University of Edinburgh.
 - -. 1978. Possessive pronominalization and the so-called picture nouns in Efik. SAL 9:121-42.
- -. 1979a. Efik-Ibibio counting system. The Nigerian language teacher, 2. Lagos: National Language Center.
- -. 1979b. Length and nasalisation in Ibibio. Works in progress, 12. Department of Lingusitics, University of Edinburgh.
- -. 1982a. The so-called reflexive pronouns and reflexivization in Ibibio. SAL 13:93-
- -. 1982b. Efik orthography. Orthographies of Nigerian languages, 1, ed. by A. Bamgbose. Lagos: National Language Center.
- . 1982c. Languages of the Cross River state. JOLAN 1:117-28.
- -, ed. 1983a. The orthography of the Ibibio language. Calabar: Ibibio Language Panel.
- 1983b. The tense system of Ibibio. Current Approaches to African Linguistics, 2. Holland: Foris Publications.
- 1983c. Verbal derivation in Ibibio. Work in progress 16:117-30. Dept. of Linguistics, University of Edinburgh.
- -. 1984-85. Towards an Ibibio orthography, 1. Nigerian Language Teacher 5.2:44-52; 2, NLT 6.1:47-56.
- -. 1985. The aspectual system of Ibibio. Paper presented to the 16th Conference on African Linguistics, Yale University.
- —. n.d. Modal strategies in Ibibio. Mimeo.
- forthcoming. A grammar of Ibibio.
- forthcoming. Ibibio-Efik. Twenty Nigerian languages, ed. by B.O. Elugbe. Linguistic Society of Nigeria. Essien, U. 1970a. Anang in the Polyglotta Africana. AfrLR 9:177-86.

- —. 1970b. The vowel system of Efik. JWAL 7.2:103-12. — and Thomas L. Cook. 1982. A brief introduction to Efik. Faraclas, Nicholas. 1982. A phonology of the western dialects of Obolo. MS. 1983. Elision and other morpheme boundary phenomena in the western dialects of Obolo. JWAL 12.2:69-82. —. 1984b. A grammar of Obolo. Bloomington: Indiana University Linguistics Club. --. 1984c. Tone, stress, and the Obolo verb focus system. JALL 6.2:127-46, -... 1986. Cross River as a model for the evolution of Benue-Congo nominal class/concord systems. SAL 17.1:39-54. -... n.d. Comparative Lower Cross--A preliminary sketch. MS. and Kay Williamson. 1984. Assimilation, dissimilation and fusion: Vowel quality. and verbal reduplication in Lower Cross. JALL 6.1-18. Gardner, Ian. 1975. Odual/English word list. Mimeo. Jos: Institute of Linguistics. -. 1980. Abuan-English / English-Abuan dictionary. University of Port Harcourt Press and Jos: NBTT. Garnes, S. 1976. An acoustic analysis of double articulations in Ibibio. Proceedings of the 6th Conference on African Linguistics, pp. 44-55 Colombus: University of Ohio. Goldie, Hugh. 1862. Dictionary of the Efik language (Glasgow). Reprint. Gregg International Publishers Ltd., 1964. 1868. Principles of Efik grammar with specimen of language. Edinburgh: Muir and Patterson. -. 1874a. Dictionary of the Efik language in two parts: Efik and English, English and Efik. Glasgow: Dunn and Wright. ---. 1874b. Efik grammar in Efik. Edinburgh: United Presbyterian College. —. 1874c. Efik grammar in English. Edinburgh: United Presbyterian College. Green, M.M. 1949. The classification of West African tone languages: Igbo and Efik. Africa 19:213-19. Greenberg, Joseph H. 1963. The languages of Africa. The Hague: Mouton; IJAL 29.1, Publication 25 of the Indiana University Research Center in Anthropology, Folklore and Linguistics. Bloomington: Indiana University Press. Hair, Paul E.H. 1966. Collections of vocabularies of Western Africa before the Polyglotta: A key. JAfrL 5:208-17. Hansford, Keir, John Bendor-Samuel, and Ron Stanford. 1976. Index of Nigerian languages. Ghana: SIL. Houis, Maurice. 1956. Schèmes et fonctions tonologiques soso, bobo, mende, efik. BIFAN série B, 18:335-68. Hyman, Larry M. 1982a. The representation of length in Gokana. Proceedings of the 1st Annual West Coast Conference on Formal Linguistics, Stanford University, pp. 198-206. 1982b. The representation of nasality in Gokana. The structure of phonological representations, 1, ed. by H. van der Hulst and N. Smith, pp. 111-30. Dordrecht: Foris Publications. 1983. Are there syllables in Gokana? Current issues in African linguistics, 2, J. Kaye et al., pp. 171-79. Dordrecht: Foris Publications. -. 1984a. On the weightlessness of syllable onsets. Proceedings of the 10th annual meeting of the Berkeley Linguistics Society, ed. by C. Brugman and M. McCaulay, PP-1-14.
- -. 1984b. A theory of phonological weight. Publications in the linguistic sciences, 19. Dordrecht: Foris. - and Bernd Comrie. 1981. Logophoric reference in Gokana. JALL 3:19-38; SAL supp. 8. IIALC. 1929. Alphabets for the Efik, Ibo, and Yoruba languages. Recommended by the Education Board. Lagos, London: International Institute of African Languages and -. 1956. Linguistic survey of the Northern Bantu borderland, 1. Oxford University Press for IIALC 54.
- Inyang, P.E.B. 1964. Language groups of eastern Nigeria. Nsukka: the author.
- Isukul, Caroline. 1982. Nominal prefixes in Ogbia (Kolo dialect). Paper presented to the 3rd meeting of the Linguistic Association of Nigeria, Ilorin, August 18-22, 1982. JALL.
- -. 1983. On the function of 'm' in Ogbia (Kolo dialect). Seminar paper, Department of Linguistics and African Languages, University of Port Harcourt.
- Jwara, A. 1983. A preliminary phonology and grammar of Loko. M.A. thesis, University of
- Jaeger, Jeri. 1983. The fortis/lenis question: Evidence from Zapotec and Jawon. Journal of
- Jeffreys, M.D.W. 1935. Old Calabar and notes on the Ibibio language (Calabar).
- Jones, E.Q. 1976. A phonological and noun class analysis of Agoi. B.A. long essay, University
- Kaufman, Elaine. 1968. Ibibio grammar. Ph.D. dissertation, University of California, Berkeley. -. 1985. Ibibio dictionary. Leiden: African Studies Center.
- Koelle, Sigismund W. 1854. Polyglotta Africana, or a comparative vocabulary of nearly three hundred words and phrases in more than one hundred distinct African languages. London: Church Missionary House; Gregg International. Reprint. Graz: Akademische Druck- und Verlagsanstalt, 1963.
- Kropp Dakubu, Mary Esther, ed. 1977. West African language data sheets, 1. West African
- Kuperus, Julie. 1978. Esquisse du système verbale de l'oro du Nigéria. Thèse de IIIè cycle,
- Messenger, J.C. Jr. 1960. Anang proverb-riddles. JAfrF 73:225-35.
- Obolo (Andoni) Language Committee. 1978. Reading and writing Obolo. Port Harcourt:
- Oni, J.O. 1975. A tentative analysis of the phonology and noun classes of Bette. B.A. long es-
- Pritchard, E.E. 1965. An Efik grammar. London: Atlantic Press for the Methodist Missionary
- Revill, P.M. 1966. Preliminary report on paralinguistics in Mbembe (E. Nigeria). Tagmenic and matrix linguistics applied to selected African languages, ed. by K.L. Pike, pp. 245-
- Robb, A. 1866. Principles of Efik grammar. Calabar: Old Calabar Mission Press.
- Runsewe, O.I. 1980. The noun classes and tone system of Loko. M.A.thesis, University of
 - 1982. Vowel harmony in Loko. Paper presented to the 3rd meeting of the Linguistics Association of Nigeria, Ilorin, August 18-22, 1982.
- Sebeok, Thomas A., ed. 1971. Linguistics in sub-Saharan Africa. CTL 7. The Hague: Mouton. Simmons, Donald. 1950. Some Efik similes. Nigerian field 15.4:76.
 - -. 1956a. Erotic Ibibio tone riddles. Man 51:78.

. 1956b. Oron noun morphology. JAfrL 2.2.
. 1956c. Oron verb morphology. Africa 26.
. 1957. Ibibio verb morphology. African studies 16:1-19.
———. 1959. Tonality in Efik signal communication. Proceedings 5th International Congress of Anthropological and Ethnological Sciences. University of Pennsylvania.
- 1900. Total Hlyme in Elik poetry. Anthropological linguistics 2:1 10
———. 1970. Notes and wordlist of Basanga: The language of Uyanga, Okposung, Nigeria. Research notes 7.2:1-17. University of Ibadan.
1980. Extralinguistic usages of tone in Efik folklore. University of Alabama Branch
. n.d. Notes on Eket verb morphology MS
Spreda, K. and J. Spreda. 1966. An interim workshop report on the phonological data of Agbo. Tagmemic and matrix linguistics applied to selected African languages, ed. by K.L. Pike, pp. 255-88.
Stanford, Ronald. 1967. The Bekwarra language of NigeriaA grammatical description. Ph.D. dissertation, University of London.
Sterk, Jan. 1976. The Hohumono noun class system. JWAL 11.1-2:119-40.
. 1979. Fortis/lenis contrast in Upper Cross consonants: A survey. Kiabàrà 2.2.57-68.
Talbot, P.A. 1926. The peoples of southern Nigeria. 4, Linguistics and statistics. Oxford University Press.
Tawu-Asu, R. 1977. Introduction to the study of the Bokyi language. Ikom: Bokyi Books.
of Ogberia phonology, B.A. long essay. University of House
Studiecentrum. Studiecentrum. Studiecentrum.
Vaddell, Hope. 1849. A vocabulary of the Efik language. Edinburgh: Grant and Taylor.
Africa, pp. 673-81.
Vagner, D. 1984. Objects in Gokana. SAL supp. 9:304-08.
Vard, Ida C. 1933. The phonetic and tonal structure of Efik. London: Heffer.
. 1948. Verbal tone patterns in West African languages. BSOAS 12.3-4:831-37.
reiniers, william E. 1968. Efik. IAS, University of Ibadan.
Villiamson, Kay. 1968. Cross River 3. Paper delivered to the annual meeting of the Benue- Congo Working Group, Leiden.
. 1972. Assimilation in Ogbia. Research notes 5.2/3:1-6, University of Ibadan.
Department of Linguistics and Nigerian Languages, University of Ibadan.
. 1973b. Reading and writing Eleme. Port Harcourt: Rivers Readers Project.
. 1979. Preliminary reconstruction of the Ogoni group. MS.
. 1983. Vowel merger in harmony languages. JOLAN 2:61-82.
—. 1985. How to become a Kwa language. Linguistics and philosophy. Essays in Honor of Ruben S. Wells, ed. by A. Makkai and A. Melby. Current issues in linguistic theory, 42. Amsterdam: Benjamins.

and Ben O. Elugbe. 1984. Loss of the fortis-lenis contrast in Abuan resonants. Topics in linguistic phonetics in honour of E.T. Uldall, ed. by R. Thelwall and J. Higgs. Ulster University Press.

and Kiyoshi Shimizu. 1968. Benue-Congo comparative wordlists, 1. Ibadan: West African Linguistic Society.

Winston, F.D.D. 1960. The 'mid-tone' in Efik. AfrLS 1:185-92.

1962. The nominal class system of Loko. AfrLS 3:49-70.

1964. Nigerian Cross-River languages in the Polyglotta Africana, 1. SLLR 3:74-28.

1965. Nigerian Cross-River languages in the Polyglotta Africana, 2. SLLR 4:122-28.

1970. Some Bantu-like features in Efik structure. AfrLS 11:411-35.

Wolff, Hans. 1959a. Niger Delta languages 1: Classification. Anthropological linguistics 1.8:32-3.

1964. Synopsis of the Ogoni languages. JAfrL 3:38-51.

1969. A comparative vocabulary of Abuan dialects. Evanston: Northwestern University Press.