

CONTENTS

<i>List of illustrations</i>	x1
<i>List of contributors</i>	xv
<i>List of abbreviations</i>	xvi
1 Introduction <i>Derek Nurse and Gérard Philippson</i>	1
1 Identifying the Bantu languages	1
2 Referring to the Bantu languages	3
3 What is a Bantu language?	3
4 The intended audience	10
5 The contents	10
6 Geographical coverage	11
PART 1	13
2 The sounds of the Bantu languages <i>Ian Maddieson</i>	15
1 Introduction	15
2 Vowels	15
3 Consonants	24
4 Laryngeal action in consonants	28
5 Clicks	31
6 Nasals and nasality	37
7 Prosodic characteristics	40
3 Segmental phonology <i>Larry M. Hyman</i>	42
1 Introduction	42
2 Proto-Bantu	42
3 Vowel phonology	45
4 Consonant phonology	49
5 Conclusion	58
4 Tone <i>Charles Kisseberth and David Odden</i>	59
1 Introduction	59
2 Nominal tonology	60
3 Verbal tonology	61
4 Tonal phenomena in Bantu	62
5 Nonphonological factors	68
6 Conclusion	70

5 Derivation	<i>Thilo C. Schadeberg</i>	71
1	Introduction: stem, base, radical, extension	71
2	Verb-to-verb derivation	72
3	Verb-to-noun derivation	79
4	Noun-to-noun derivation	82
5	Noun-to-verb derivation	84
6	Compounding	86
6 Aspect and tense in Bantu languages	<i>Derek Nurse</i>	90
1	Purpose, data base	90
2	Verb structures	90
3	Categories expressed in the verb	91
4	How tense and aspect are encoded	92
5	Aspect and tense categories	94
6	Summary, agenda	102
7 Bantu nominal morphology	<i>Francis Katamba</i>	103
1	Introduction	103
2	History of noun classification	103
3	Bantu and Niger-Congo noun classes	105
4	The augment	107
5	Canonical vs. reduced noun class systems	108
6	Distribution and pairing of noun classes	109
7	Concord	111
8	Gender conflict resolution	113
9	Semantics of noun classes	114
10	Conclusion	120
8 Syntax	<i>Thomas Bearth</i>	121
1	Introduction and preview	121
2	Verb valency – a key to elementary sentence structure	122
3	Word order, affix order and the topicality metric	126
4	Word order variation and canonical word order	128
5	Pragmatic functions of word order in core Bantu and in peripheral Bantu	130
6	Passivization	135
7	Inversion	139
9 Historical linguistics	<i>Thilo C. Schadeberg</i>	143
1	Introduction	143
2	Proto-Bantu reconstructions	146
3	Bantu historical linguistics and history	154
10 Towards a historical classification of the Bantu languages	<i>Derek Nurse and Gérard Philippson</i>	164
1	Aim	164
2	Models	164
3	Previous studies	166
4	Methodology	167

5	Preliminary results	168
6	Historical implications, future directions	179
11	Grammaticalization <i>Tom Güldemann</i>	182
1	Introduction	182
2	Bantu word forms, morphology and their grammaticalization history	183
3	Grammaticalization and phonetic-phonological properties	190
4	Grammaticalization research and historical Bantu linguistics	191
12	Contact languages in the Bantu area <i>Salikoko S. Mufwene</i>	195
1	Introduction	195
2	The variable role of contact: exogenous vs. endogenous lexifiers	196
3	Conclusions	208
13	The acquisition of Bantu languages <i>Katherine Demuth</i>	209
1	Introduction	209
2	The acquisition of Bantu noun class and agreement systems	211
3	The acquisition of Bantu verbal morphology and syntactic structures	214
4	The acquisition of phonology	219
5	Discussion	220
	PART 2	223
14	Grassfields Bantu <i>John R. Watters</i>	225
1	Introduction	225
2	Phonology	233
3	Morphology	239
4	Syntax	247
5	Conclusion	255
15	Basaá (A43) <i>Larry M. Hyman</i>	257
1	Introduction	257
2	Phonology	257
3	The noun and noun phrase	262
4	Verb derivation	272
5	Basic clause structure	277
16	Nem (A44) <i>Maarten Mous</i>	283
1	Introduction	283
2	Phonetics and phonology	284
3	Verbs	288
4	Nouns and nominals	299
5	Syntax	303
17	Épé? (A53) <i>Gladys Guarisma</i>	307
1	Introduction	307
2	Phonology	308
3	Noun classes	313

5	Preliminary results	168
6	Historical implications, future directions	179
11	Grammaticalization <i>Tom Güldemann</i>	182
1	Introduction	182
2	Bantu word forms, morphology and their grammaticalization history	183
3	Grammaticalization and phonetic-phonological properties	190
4	Grammaticalization research and historical Bantu linguistics	191
12	Contact languages in the Bantu area <i>Salikoko S. Mufwene</i>	195
1	Introduction	195
2	The variable role of contact: exogenous vs. endogenous lexifiers	196
3	Conclusions	208
13	The acquisition of Bantu languages <i>Katherine Demuth</i>	209
1	Introduction	209
2	The acquisition of Bantu noun class and agreement systems	211
3	The acquisition of Bantu verbal morphology and syntactic structures	214
4	The acquisition of phonology	219
5	Discussion	220
PART 2		223
14	Grassfields Bantu <i>John R. Watters</i>	225
1	Introduction	225
2	Phonology	233
3	Morphology	239
4	Syntax	247
5	Conclusion	255
15	Basaá (A43) <i>Larry M. Hyman</i>	257
1	Introduction	257
2	Phonology	257
3	The noun and noun phrase	262
4	Verb derivation	272
5	Basic clause structure	277
16	Nen (A44) <i>Maarten Mous</i>	283
1	Introduction	283
2	Phonetics and phonology	284
3	Verbs	288
4	Nouns and nominals	299
5	Syntax	303
17	Kpɔʔ (A53) <i>Gladys Guarisma</i>	307
1	Introduction	307
2	Phonology	308
3	Noun classes	313

4	Diminutive and augmentative	318
5	Verb morphology	318
6	Sentence structure	328
18	Makaa (A83) <i>Teresa Heath</i>	335
1	Introduction	335
2	Phonology	335
3	Nouns and noun phrases	338
4	Verb	342
5	Syntax	346
6	Conclusion	348
19	The Bantu languages of the forest <i>Claire Gregoire</i>	349
1	Introduction	349
2	Phonology	351
3	Morphology	358
4	Conclusion	368
20	The B30 language group <i>Lolke J van der Veen</i>	371
1	Introduction	371
2	Phonology	377
3	Noun morphology	382
4	Verb morphology	387
5	Conclusion	390
21	Babole (C101) <i>Myles Lettch</i>	392
1	Speech community, classification, and dialects	392
2	Phonology	393
3	Morphology	399
4	Syntax	415
22	Lega (Beya dialect) (D25) <i>Robert Botne</i>	422
1	Introduction	422
2	Phonology	423
3	Noun morphology	427
4	Verb morphology	435
5	Syntax	445
23	Bila (D32) <i>Constance Kutsch Lojenga</i>	450
1	Introduction	450
2	Phonology	453
3	Nominal morphology	458
4	Verbal morphology	465
5	Summary	473
24	Kilimanjaro Bantu (E60 and E74) <i>Gérard Philippson and Marie-Laure Montlahuc</i>	475
1	General	475
2	Segmental phonology	476

3	Tone	479
4	Noun morphology	482
5	Verb morphology	490
6	Conclusion	500
25	The Interlacustrine zone (Zone J) <i>Yvonne Bastin</i>	501
1	Introduction	502
2	Phonology	504
3	Morphology	515
4	Conclusions	527
26	Rufiji-Ruvuma (N10, P10-20) <i>David Odden</i>	529
1	Introduction	529
2	Phonology	529
3	Morphology	535
4	Syntax	543
5	Summary	544
27	Makhuwa (P30) <i>Charles Kisseberth</i>	546
1	Zone P30	546
2	Makhuwa: geographical distribution and dialect differentiation	547
3	Makhuwa phonology	548
4	The verbal system	555
5	The nominal system	560
6	Syntax	565
28	Western Savanna (K, R) <i>Gabriele Sommer</i>	566
1	Demography and classification	566
2	Phonology, morphophonology and tone	568
3	Morphology and syntax	571
29	Herero (R31) <i>Edward D. Elderkin</i>	581
1	Introduction	581
2	Phonology	583
3	Inflectional morphology	586
4	Lexicon	596
5	Phrases	603
6	Sentences	605
30	Zone S <i>Derek Gowlett</i>	609
1	Geolinguistic situation	609
2	Orthography	611
3	Phonology	611
4	Noun classes	620
5	Aspects of nominal derivation	624
6	Qualificatives	626
7	Verbal radical structure	630

x CONTENTS

8	Verbal inflection	631
9	Syntax	636
31	A classification of the Bantu languages: an update of Guthrie's referential system <i>Journi Maho</i>	639
1	Introduction: what, why and how	639
2	The new updated Guthrie list	641
	<i>Bibliography</i>	652
	<i>Language index</i>	687
	<i>Subject index</i>	695

ILLUSTRATIONS

MAPS

1.1	Niger-Congo languages	2
1.2	Bantu languages	4
9.1	Guthrie's zones	145
9.2	The distribution of the locative suffix <i>*-in/</i>	157
12.1	Contact languages in the Bantu area	195
12.2	Labor migrations	198
14.1	Grassfields Bantu	226
19.1	The main Bantu languages of the Forest (Zones B, C and D)	350
20.1	Map of Gabon	372
21.1	Congo (Brazzaville) and Babole language area	392
22.1	Location of Lega in the DRC	422
22.2	Approximate Lega dialect areas	423
23.1	Bila and its neighbors	451
25.1	The Interlacustrine languages	503

FIGURES

2.1	Xhosa vowel formant means	16
2.2	Kalanga vowel formant means	17
2.3	Nyamwezi vowel formant means	18
2.4	Vove vowel formant means	19
2.5	Articulatory positions of six of the vowels of Fang (dialect of Bitam)	21
2.6	Fang vowel formant means	22
2.7	Nande vowel formant means	23
2.8	Spectrogram of Nyarwanda <i>imwa</i> /imga/ 'dog'	26
2.9	Spectrogram of Nyarwanda <i>akahwa</i> /akabga/ 'dog (diminutive)'	26
2.10	Spectrogram of Nyarwanda <i>ugutwi</i> /ugutkwi/ 'ear'	27
2.11	Spectrogram of Kalanga /hapk ^h a/ 'armpit'	28
2.12	Waveform of the middle part of the GiTonga word /bábé/ 'father'	29
2.13	Pitch contours illustrating effects of non-depressor and depressor /h/ in Swati	30
2.14	Pitch effects of depressor nasals in the Giryama words /nhane/ 'eight' and ideophone /nhq/	30
2.15	Bantu languages with clicks	31
2.16	Spectrogram of the first part of the Ndebele word ['kò:βá] 'slice!'	32
2.17	Closure durations and timing relations in the three click types of Zulu	33
2.18	EPG frames showing a dental click spoken by a male Zulu speaker	34

2.19	EPG frames showing a lateral click spoken by a male Zulu speaker	35
2.20	EPG frames showing the releasing phase of a post-alveolar click spoken by a male Zulu speaker	35
2.21	Peak negative pressure in the three click types of Zulu	36
2.22	Comparison of selected vowel and consonants lengths in Ganda and Sukuma	38
2.23	Spectrogram of the Nyamwezi word /ŋapo/ 'basket'	39
2.24	Spectrogram of the Nyamwezi word /kɔŋá/ 'to suck'	39
7.1	A semantic network for class 3	117
7.2	Swahili class 3/4 structure	119
9.1	The position of Bantu within Niger-Congo	155
11.1	The morphological structure of finite verb forms in Bantu	184
14.1	Piron's internal classification of Wide Grassfields	228

TABLES

2.1	Spirantization in four languages	20
2.2	Nasalized vowels in <i>ngũngwèl</i>	24
2.3	IPA symbols and Zulu orthography for clicks	37
2.4	Comparison of mean vowel durations in three languages	38
7.1	Four often-cited lists of reconstructed PB noun prefixes	104
7.2	Summary of reconstructions of likely PB noun classes	105
7.3	The augment in selected languages	107
7.4	Comparative table of noun classes	109
7.5	Bantu paired noun classes	110
7.6	The most widely occurring noun class pairings	110
7.7	Bantu concords	112
7.8	Semantic content of noun classes	115
9.1	Morphologically defined word categories	149
9.2	PB nominal and pronominal prefixes	149
9.3	Verbal prefixes for participants and class 1	151
14.1	Seven isoglosses distinguish Eastern Grassfields from Momo and Ring	240
14.2	Reconstructed noun class formatives for Proto-Eastern Grassfields and Proto-Momo and Ring	240
14.3	Third person subject markers in Bamoun	243
15.1	Noun class marking in Basaá	262
15.2	Noun class marking on nouns	263
15.3	Possessive pronouns	266
15.4	Connective and demonstratives	267
15.5	H tone prefix on noun + demonstrative 'this'	267
15.6	Noun class concord on numerals '1'-'7'	268
15.7	Adjectival nouns	268
15.8	Simplex pronouns	269
15.9	Complex pronouns	270
15.10	Verb extensions and their allomorphs	274
15.11	Vowel raising with causative -s and applicative -l	274
15.12	Extension combinations reports by Lemb and de Gastines (1973:35)	276
15.13	Verb tenses + subjunctive and imperative	281
15.14	Progressive aspect	281

15.15	Other periphrastic forms	282
16.1	Consonant phonemes	284
16.2	Vowel phonemes and harmony sets	285
16.3	Examples with recessive and dominant verb suffix	285
16.4	Tone and final vowel reduction in disyllabic noun roots	287
16.5	The final H shape	292
16.6	Examples of High tone shapes	293
16.7	The simple tenses	295
16.8	Semantic scheme of tenses	296
16.9	Nominal and pronominal prefixes	300
16.10	Modifiers with a numeral prefix	301
16.11	Pronominals with independent pronominal prefixes	301
16.12	The modifiers and pronominals with pronominal prefixes	301
16.13	Personal pronouns	302
18.1	Vowels (underlying)	336
18.2	Consonants	336
18.3	Makaa noun class prefixes	338
18.4	Summary of noun derivation in Makaa	339
18.5	Makaa noun compounding processes	339
18.6	Possessive concord	340
18.7	Noun modifier and copula concord	340
18.8	Associative noun phrase concord	341
18.9	Object pronouns and subject and object markers	342
18.10	Makaa verbal unit	343
18.11	Tense in the indicative	344
20.1	B30 noun class markers	383
20.2	B30 noun class pairings	384
20.3	Possessive determiners	386
20.4	Indefinite determiners	386
20.5	Some interrogative markers	386
20.6	Numeral determiners	387
20.7	Subject markers that formally differ from the corresponding noun class markers	388
20.8	Subject pronouns	388
20.9	Object markers that formally differ from the corresponding noun class markers	389
20.10	Predicative markers	390
22.1	Noun class prefixes	427
22.2	Noun genders: paired singular/plural classes	428
22.3	Noun genders: non-paired noun classes	428
22.4	Agreement prefixes	432
22.5	Templates for non-nasal prefixes	433
22.6	Demonstrative prefixes based on template forms for each non-nasal class	433
22.7	Templates for nasal classes	433
22.8	Demonstrative forms based on nasal class prefixes	434
22.9	Adjective roots	434
22.10	-C(G)V stems	436

22.11	Some -CVCVC(VC)- roots	436
24.1	Consonant chart for KB languages	478
24.2	Ma and W lexical tone	479
24.3	Ma class 9 nominals in isolation and in context	480
24.4	Ma nominal stems with syllabic prefix	480
24.5	Independent nominal prefixes	483
24.6	Classes 1 and 3 IPs in KB	483
24.7	Dependent prefixes	487
24.8	Possessive stems	489
24.9	Numeral stems	489
24.10	Nominal stems for numerals 7 to 10	490
24.11	KB subject prefixes	492
24.12	Independent personal pronouns	493
27.1	Ruvuma Makhuwa consonants	549
28.1	Some demographic information on selected Western Savanna languages	567
28.2	Consonant inventories (excluding click consonants)	568
28.3	Click consonants in Ngamiland Yeyi (R41)	569
28.4	Vowel alternations in verbal contexts	570
28.5	Pre-prefix and nominal prefix (NP) forms	572
28.6	Nominal derivation	573
28.7	Pronominal concords (numerals, possessives) in three sample languages	574
28.8	Concordial elements on demonstratives in Ngamiland Yeyi and in Luyana	574
28.9	Subject (SC) and object (OC) concord elements	575
28.10	Independent personal pronouns	576
28.11	Constituent elements of non-compound inflected verb forms	576
28.12	Tense, aspect and mood in Ndonga (R22) and Luyana (K31)	577
28.13	Verbal extensions	578
29.1	Correlation between IPA letters and the letter groups of the representation of Herero used here	582
29.2	Syllable structure of Herero	583
30.1	Phuthi	613
30.2	Copi	615
30.3	Xhosa	615
30.4	Tsonga	616
30.5	Venda	616
30.6	Zulu	616
30.7	Zone S noun class system	620
30.8	Southern Sotho	622
30.9	GiTonga	623
30.10	Tsonga	623
30.11	Venda	624
30.12	Zulu and Tswana	624
30.13	Reflexive prefixes	624
30.14	Absolute (or emphatic) pronouns	625
30.15	Demonstratives	629
30.16	Zulu	629