### THE ORIENTAL INSTITUTE OF THE UNIVERSITY OF CHICAGO ASSYRIOLOGICAL STUDIES • NO. 18

# SEQUENTIAL RECONSTRUCTION OF

## PROTO-AKKADIAN

by

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THE ORIENTAL INSTITUTE OF THE UNIVERSITY OF CHICAGO

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## In memory of GIORGIO LEVI DELLA VIDA Master, Teacher, Friend

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#### PREFACE

My decision to write this monograph grew partly out of my computer-oriented work on the Amorite language, partly out of the need to revise and bring up to date my <u>Morphology of Akkadian</u> composed in 1952 by the Multigraph-Multilith process for didactic purposes. The direct stimulus to fulfill it was provided by the opportunity to teach a course entitled "Structure of Akkadian" at the Summer Linguistic Institute in Ann Arbor, Michigan, in 1967.

As indicated by the word "Proto-Akkadian" in the title of this monograph, the procedures of sequential reconstruction are applied here to the oldest recoverable stages of the Akkadian language. Instead of "Proto-Akkadian," I could have used the term "Proto-Semitic" in the title, not necessarily because of my belief that Proto-Akkadian corresponds to Proto-Semitic, but because the reconstruction of Proto-Akkadian to a very large measure affects that of Proto-Semitic. Nevertheless, I have kept the term "Proto-Akkadian" in the title, first, because the documentation provided in this monograph is culled mainly from Akkadian, and secondly, because of the difficulties encountered in marking certain Proto-Akkadian features as common Semitic.

The reconstruction of Proto-Akkadian is founded on my analysis of the Old Akkadian dialect, as presented in <u>Old Akkadian Writing</u> <u>and Grammar</u> (=<u>MAD</u> II<sup>2</sup>; Chicago, 1961), and in <u>Glossary of Old Akkad-<u>ian</u> (=<u>MAD</u> III; Chicago, 1957), wherein the oldest known sources of the Akkadian language (and therefore of any Semitic language)</u>

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are gathered and interpreted. For the correct understanding of the

reconstruction of Proto-Akkadian, a general acquaintance with <u>MAD</u> II<sup>2</sup> may be deemed useful.

Crossreferences to sources and bibliographical information were kept to a minimum. For Old Akkadian, see <u>MAD</u>  $II^2$ , just mentioned. For general facts concerning Akkadian grammar, compare the extensive documentation in von Soden's <u>GAG</u>, possibly together with my review published in <u>BO</u> XII (1955) pp. 92-111. For comparative grammars of Semitic languages, the well-known manuals of Zimmern, Brockelmann, Moscati, and Diakonoff should be consulted.

With the exception of Old Egyptian, which I have utilized through the splendid work of Elmar Edel, <u>Altägyptische Grammatik</u> (2 vols., Roma, 1955-64), I have paid practically no attention to the other "Hamitic" languages. While I have nothing but admiration for the courage with which Diakonoff tackled the "Hamitic" field in his pioneering <u>Semito-Hamitic Languages</u>, I must confess that it was difficult, if not impossible, for me to utilize sources second-hand, and I did not have the patience and the stamina to search for widely scattered primary sources in new and badly explored fields.

My occasional references to Indo-European languages are aimed mainly at illustrating certain general features of a linguistic development. Indirectly, they serve the purpose of giving substance to my firm belief in the common ancestry of the Semitic, "Hamitic," and Indo-European languages. The application of sequential reconstruction to Indo-European languages holds great promise for the future.

This monograph deals mainly with sequential morphemes and the methods of sequential reconstruction, which are described in 0.

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INTRODUCTION. The individual sequential morphemes are taken up in detail in the ten following chapters.

Chapters 1-5 are dedicated to the five suffixal sequential morphemes under the headings GENDER, NUMBER, CASE / MOOD, OBJECT, and ENCLITICS.

The three prefixal sequential morphemes are so intrinsically bound up with the personal pronoun, verb, and stative that it was impossible to present them in their logical place, namely in Chapters 6-8. Instead, the first prefixal morpheme, forming part of the inflectional system, is discussed under 8.2. Personal Pronoun I, 9.2. Inflectional Morphemes, and 10. STATIVE. The second and third prefixal morphemes, representing extended stems, are discussed under 9.3. Prefixal Sequential Morphemes and 9.4. Verbal Stem.

While general questions pertaining to stem and root are taken up in Chapter 7, specific discussions will be found under 7.2. Simple Nominal Stems, 7.3. Extended Nominal Stems, 9.3. Prefixal Sequential Morphemes, and 9.4. Verbal Stem.

The main principles governing sequential reconstruction, generally, and the main results of the sequential reconstruction of Proto-Akkadian, specifically, are collected under 11. CONCLUSIONS.

The manuscript was reproduced by the photo-lithoprint process, instead of being set in type, because of the obvious typographic difficulties with certain signs and combinations of signs, such as  $\emptyset$ , 4,  $\frac{u}{4}$ ,  $\frac{u}{4}$ , which appear by the hundreds in this monograph.

I wish to express my heartfelt gratitude to Professors Eric Hamp, Jerzy Kuryłowicz, and Gene Schramm for constructive suggestions, as acknowledged in the respective places in this monograph.

Please note the addenda to be found on pp. 229ff.

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#### NOTES ON TRANSCRIPTION AND TRANSLITERATION

Akkadian entries are given mainly in transcription, as in <u>kalbum</u>, <u>kalb+um</u>, <u>kalb+u+Ø+Ø+#</u>, very rarely in sign-by-sign transliteration, as in <u>ka-al-bu-um</u>.

Akkadian transcriptions are given either without morpheme boundaries, as in <u>kalbum</u>, or with morpheme boundaries, as in <u>kalb+u+ $\emptyset$ + $\mu$ +m or <u>kalb+um</u>. The indication of full or partial morpheme boundaries depends on the context. Partial indication, as in <u>kalb+um</u>, is given, e.g., in the discussion of stems and suffixes. Full indication, as in <u>kalb+u+ $\emptyset$ + $\mu$ +m, is found in the discussion of the suffixal morphemes of gender, number, case, and object.</u></u>

The apparent inconsistencies in my transcriptions of Akkadian are conditioned by the relevance in a given context.

Thus in one place I write ja+mhur+u, the posited Proto-Akkadian form, elsewhere ja+mhur+p', to show that the final <u>u</u> is not attested in Akkadian, and sometimes simply <u>imhur</u>, as in the discussion of the syntax, where the morphemic division is irrelevant.

I usually write <u>in Akkadian transcriptions</u>, as in <u>in the same in the same i</u>

I regularly transcribe with  $\underline{i}$  the initial phoneme in such entries as  $\underline{i}$  "I," "me" or  $\underline{i}\underline{s}$  "to," and not  $\underline{i}$  or  $\underline{j}\underline{i}$ , because of the uncertainties surrounding the quality of the initial phoneme in Proto-Akkadian times.

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I prefer the transcriptions <u>antunu</u> to <u>attunu</u> and <u>janpaqidu</u> to <u>janpaqidu</u> because the changes  $\underline{n} > \underline{t}$  or  $\underline{n} > \underline{p}$  and the elision of <u>i</u> in <u>attunu</u> and <u>ippaqdu</u>, respectively, are irrelevant in the context. However, the spellings <u>attunu</u>, <u>janpaqidu</u> are used occasionally.

Since sequential reconstruction yields no basis for the vocalic quantity in <u>kalbi</u>, <u>su</u>, <u>si</u>, <u>tamburi</u>, <u>suāti</u>, etc., I leave it undenoted. This secondarily developed length is not a matter of either Proto-Akkadian or Proto-Semitic, but of later Semitic languages.

The semi-consonantal glides <u>,</u> <u>w</u>, and <u>j</u> are usually left undenoted in <u>suati</u>, <u>siati</u>, etc., first, because these glides are secondary, and secondly, because of uncertainties in the transcription either as <u>suwati</u>, <u>sijati</u> or <u>su'ati</u>, <u>si'ati</u>.

Vocalic and consonantal quantity is denoted by <u>:</u> in all instances where it is desirable to segregate the morpheme of plural or plurality (intensity), as in <u>kalb+a+:+tu+m</u> /<u>kalbātum</u>/ in contrast to <u>kalb+a+#+tu+m</u> /<u>kalbatum</u>/, or in /<u>mah</u>:ir/ in contrast to /<u>mahir</u>/. In all other instances I have used the traditional way of marking long consonants and vowels, as in <u>kalbātum</u> or mahhir.

Akkadian transliterations are used only where required to justify certain morphemic reconstructions.

Because of the great discrepancies between the written forms, on the one hand, and the posited or actual spoken forms, on the other, the rendering of Semitic languages other than Akkadian causes much difficulty. Only Arabic is relatively consistent in its relation between transliteration and transcription. But even here problems exist, as in the traditional transcription of Fem. <u>safrā'u</u> "yellow" (see 1.1), with the stress on the penult and long  $\underline{\hat{a}}$ , in place of <u>safra'u</u> required by the sequential reconstruction. Many more problems exist with the rendering of other Semitic languages, especially Hebrew, with its cumbersome Massoretic tradition. Since I denote regularly the <u>shewa mobile</u>, I could dispense with the denotation of the (predictable) fricative articulation of the following consonants. Despite my firm belief that the primary set of Hebrew vowels was differentiated by quality, not quantity, I have often followed tradition, partly because of typographic difficulties, in transcribing <u>qames</u> as  $\underline{a}$ , instead of  $\underline{c}$ , and <u>segol</u> as  $\underline{e}$ , instead of  $\underline{c}$ .

For paradigmatic usage in Akkadian I have chosen <u>kalbum</u> "dog" for primary nouns, and <u>mahārum</u> "to receive" for verbs and verbal nouns. I have used <u>mahārum</u> also for West Semitic languages, especially in contexts encompassing all Semitic languages. In some contexts this verb is replaced by <u>gatālum</u> "to kill."

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#### NOTES ON CHARTS

Two kinds of charts are found in this monograph. Charts illustrating the distribution of the morphemes of gender, number, case / mood, and object are collected at the end of Chapters 1-4, respectively. All other charts are scattered within the discussions presented in the chapters. Because of differing purposes, the charts show certain differences in transcription and arrangement.

The charts at the end of the first four chapters are regularly given in the order noun, pronoun, verb, and stative. Within each group of charts dedicated to one sequential morpheme, the morpheme under examination is subdivided into two main parts. Thus all charts dealing with gender show the two morphemic subdivisions, Masc. // Fem., and the two contrasting markers,  $\underline{u}$  //  $\underline{a}/\underline{i}$ .

Each group of charts dedicated to one sequential morpheme contains complete information pertaining to that morpheme only. Thus under gender, the given markers of the number, case, and object serve the purpose of illustration; complete information about them is to be found under the respective sequential morphemes.

The information given in parentheses under a sequential morpheme serves the purpose of a guide and is not directly relevant to the particular morpheme discussed in the chart. Thus in <u>Charts 53ff</u>. dedicated to the object morpheme, the relevant

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information under OBJECT is noted as Gen., but the irrelevant information under GENDER, NUMBER, and CASE is noted as (Masc.), (Sg.), (Nom.), etc.

While the entry STEM in the charts denotes the simple (nonextended) stem, the entry "STEM" (in quotation marks) is used, for the sake of convenience, for all the segments before the sequential morphemes whenever the subdivision of these segments is irrelevant for the discussion of a particular sequential morpheme. Thus in <u>Charts 12f</u>. one finds under "STEM" such entries as <u>'a+mhur+</u>, mahir+'ak+, etc.

The fifth sequential morpheme represents the enclitics and is regularly marked as "(+<u>ma</u>) etc." <u>Ma</u> illustrates the several markers which can be used in that rank, and the parentheses indicate their optional, not obligatory, character. Because of space limitations in charts, this marker is sometimes left out, as in <u>Charts 39-42</u>, <u>48</u>, and <u>61-62</u>.

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#### SYMBOLS USED

-	in <u>ka-al-bi</u>	for sequence of cuneiform graphemes.
-	in Assur-uballit	for separating two elements in a name.
-	in <u>su</u> and <u>si</u>	for emphasizing the Masc. $\underline{u}$ // Fem. $\underline{1}$ contrast.
	in <u>kalb+u+2</u>	for structural limitations in morpheme sequence (no case in Voc.).
+	in <u>kalb+i</u>	for morpheme boundary.
:	in <u>a:</u> , <u>h</u> :	for vocalic or consonantal quantity (= vocalic length, consonantal doubling).
•	in * <u>ku</u>	for reconstructions in Proto- Semitic (used very rarely).
ø	in <u>kalb+u+Ø+Ø+m</u>	for zero (marker Ø for Sg., in contrast to <u>:</u> for Pl.).
ø	in jamhur+u+:+x4+Ø	for zero (implying that mimation / nunation, sure for Proto-Semitic, is not sure for Proto-Akkadian).
/	in mahirum	for zero (implying that reconstruc- tion of <u>i</u> is sure for Proto-Akkadian).
1	n in immahar	for phonetic change (reconstruction of $\underline{n}$ is sure, but only $\underline{m}$ is attested in Akkadian).

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/	<u>a/i</u>	for two markers used in one function (as in $a/\underline{i}$ markers used in Gen.).
/	in Gen./Acc.; Masc./Fem.	for one marker used in two functions (as in <u>a</u> marker used in Gen./Acc.).
//	in <u>u</u> // <u>a;</u> Masc. // Fem.	for contrast between two markers or morphemes (as in the contrast between the marker $\underline{u}$ of the Masc. and the <u>a</u> marker of the Fem.).
/ /	in /k/, /kalbi/	for phonemic transcription.
[]	in [ŋ], [ <u>imaygur</u> ]	for phonetic transcription.
נו	in <u>a-na-[ku]</u>	for transliterating completely destroyed signs.
רז	in <u>a-na-[ku]</u>	for transliterating partly destroyed signs.
< >	in <u>a-na-≪ku&gt;</u>	for transliterating signs omitted by the scribe.
( )	in <u>kalb(u</u> ) <u>šarrim</u>	for <u>kalbu</u> and <u>kalb</u> when both attested.
( )	in māņirū(t)(u)	for maniru, manirut, and manirutu when all three attested.
()	in (+ <u>ma</u> )	for enclitics used optionally.
u a	in ja+mhur+a	for ja+mhur+a and ja+mhur+u when both attested.

#### ABBREVIATIONS OF PUBLICATIONS

ARMT	G. Dossin et al., Archives royales de
	Mari (texts in transliteration and
	translation; Paris, 1950-).
Barth, Nominalbildung	Jakob Barth, Die Nominalbildung in den
	semitischen Sprachen (Leipzig, 1889).
Barth, Pronominalbildung	Jakob Barth, Die Pronominalbildung in
	den semitischen Sprachen (Leipzig,
	1913).
BO	Bibliotheca Orientalis.
Brockelmann, <u>GVG</u>	Carl Brockelmann, Grundriss der vergleichen-
	den Grammatik der semitischen Sprachen
	(2 vols., Berlin, 1908-1913).
CAD	Chicago Assyrian Dictionary (Chicago,
	1956-).
CT	Cuneiform Texts from Babylonian Tablets,
	etc., in the British Museum
	(London, 1921-).
Diakonoff, <u>SHL</u>	I.M. Diakonoff, Semito-Hamitic Languages
	(Moscow, 1965).
Edel, Altägyptische	Elmar Edel, Altägyptische Grammatik. =
Grammatik	Analecta Orientalia 34 and 34/39 (2 wols.,
	Roma, 1955-1964).

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Fleisch, L'Arabe classique	Henri Fleisch, L'Arabe classique.
	Esquisse d'une structure lin-
	guistique. = Recherches publiés
	sous la direction de l'Institut de
	Lettres Orientales de Beyrouth,
	Tome V (Beyrouth, 1956).
Fleisch, <u>Traité</u> I	Henri Fleisch, Traité de philologie
	arabe, Vol. I. = Recherches publiés
	sous la direction de l'Institut de
	Lettres Orientales de Beyrouth, Tome
	XVI (Beyrouth, 1961).
Gelb, <u>La lingua degli</u>	I.J. Gelb, La lingua degli Amoriti. =
Amoriti	Accademia Nazionale dei Lincei.
	Rendiconti della Classe di Scienze
	morali XIII (Roma, 1958) pp.
	143-164.
Gelb, Morphology of	I.J. Gelb, Morphology of Akkadian. A
Akkadian	Comparative and Historical Sketch
	(multigraphed, Chicago, 1952).
Gordon, <u>UT</u>	Cyrus H. Gordon, Ugaritic Textbook.
	= Analecta Orientalia 38 (Rome,
	1965).
IJAL	International Journal of American
	Linguistics.
JAOS	Journal of the American Oriental Society.
JCS	Journal of Cuneiform Studies.
JNES	Journal of Near Eastern Studies.

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MAD	I.J. Gelb, Materials for the Assyrian
	Dictionary (Chicago, 1952-).
	MAD II <sup>2</sup> = Old Akkadian Writing and Gram-
	mar (2nd ed., Chicago, 1961).
	MAD III = Glossary of Old Akkadian
	(Chicago, 1957).
Moscati, <u>ICG</u>	Sabatino Moscati, ed., A. Spitaler,
	E. Ullendorff, and W. von Soden,
	An Introduction to the Comparative
	Grammar of the Semitic Languages.
	Phonology and Morphology (Wiesbaden,
	1964).
MRS	Mission de Ras Shamra (Paris, 1936-).
NPN	I.J. Gelb, P.M. Purves, and A.A. MacRae,
	Nuzi Personal Names. = Oriental In-
	stitute Publications LVII (Chicago,
	1943).
RA	Revue d'assyriologie et d'archéologie
	orientale.
Reiner, LAA	Erica Reiner, A Linguistic Analysis of
	Akkadian (The Hague, 1966).
RSO	Rivista degli studi orientali.
Symbolae Kuryłowicz	Symbolae Linguisticae in Honorem
	Georgii Kuryłowicz = Polska Akademia
	Nauk. Oddział w Krakowie. Prace
	Komisji Językoznawstwa Nr. 5 (Kraków,
	1965).

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TCL	Musée du Louvre. Textes cunéiformes (Paris,
	1910-).
Ungnad-Matous, <u>GA</u>	Arthur Ungnad and Lubor Matous, Grammatik
	des Akkadischen (4th ed., München, 1964).
von Soden, <u>GAG</u>	Wolfram von Soden, Grundriss der akkadischen
	Grammatik. = Analecta Orientalia 33
	(Roma, 1952).
<u>ZA</u>	Zeitschrift für Assyriologie.
ZDMG	Zeitschrift der Deutschen Morgenländischen
	Gesellschaft.
Zimmern, <u>VGSS</u>	Heinrich Zimmern, Vergleichende Grammatik
	der semitischen Sprachen (Berlin, 1898).

#### ABBREVIATIONS OF TERMS

Abl.	Ablative	GEN.	GENDER (in charts)
Abs.	Absolute	Imperf.	Imperfect
Acc.	Accusative	Impv.	Imperative
Act.	Active	Ind.	Indicative
Adj.	Adjective	Indeterm.	Indeterminative
A11.	Allative	Inf.	Infinitive
В	Basic (formation)	Intrans.	Intransitive
C	Consonant	Loc.	Locative
с.	Common (in charts)	<b>m.</b>	Masculine (in charts)
Caus.	Causative	Masc.	Masculine
Constr.	Construct (state)	N	N (formation)
D	Doubled (formation)	Nom.	Nominative
Dat.	Dative	NUM.	NUMBER (in charts)
Dem,	Demonstrative	OBJ.	OBJECT (in charts)
Det.	Determinative	<b>Obl.</b>	Oblique (case)
Du.	Dual	Part.	Participle
ENCL.	ENCLITIC (in charts)	Pass.	Passive
Eth.	Ethiopic (in charts)	Perf.	Perfect
f.	Feminine (in charts)	Pers.	Person, Personal
Fem.	Feminine	P1.	Plural
Fut.	Future	PN	Personal name

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Pred.	Predicate	Stat.	Stative
Pres.	Present	Subj.	Subjunctive
Pret.	Preterit	Subst.	Substantive
Pron.	Pronoun, Pronominal	Suff.	Suffix, Suffixal
Rel.	Relative	S <b>yr.</b>	Syriac (in charts)
š	Š (formation)	T	T (formation)
Sem.	Semitic (in charts)	Trans.	Transitive
Sg.	Singular	v	Vowel
St.	State		

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#### O. INTRODUCTION

#### 0.1. Linguistic Data

Akkadian, like all other Semitic languages, has speech units composed of 1) stems (or roots, bases, etc.) and 2) affixes before and/or after the stem. We traditionally call such speech units "word classes," "form classes," "parts of speech," or simply "words." Word classes having both stems and affixes completely dominate the structure of all Semitic languages. In fact, all word classes have the stem + affix structure, with the exception of some adverbs, prepositions, conjunctions, interjections, and particles. For the discussion of the term "word," see 4.1.

A member of a word class can be simple or compound. A simple word-class member is represented by one stem, a compound word-class member by more than one stem.

Examples of a one-stem word are <u>kalb+um</u> "dog," <u>kalb+ $\bar{u}$ + $\bar{s}u$ </u> "his dogs," <u> $\bar{s}$ +u</u> "he," <u>ja+mbur+ $\bar{u}$ </u> "they received," and <u>ma</u> "thus" (or the like).

Examples of a compound stem word are <u>saman+samm+um</u> "sesame," <u>an+durār+um</u> "freedom," <u>an+t+a</u> "thou," <u>man+man</u> "whoever," and <u>an+a+k+u</u> = /<u>anāku</u>/ "I."

The stems can be simple or extended. A simple stem is illustrated by <u>kalb+um</u> "dog," or <u>māhir+um</u> "recipient;" an extended stem by <u>kalb+ān+um</u> "dog-like" or ta+mhīr+#t+um "reception."

Stems are discussed extensively under 6. STEM AND ROOT, where

1

also crossreferences to other parts of this monograph will be found.

The main differences between stems and affixes are: Stems represent fixed morphemes in relation to grammar (morphology), but changeable morphemes in relation to lexicon. Affixes represent changeable morphemes in relation to grammar, and they may or may not have a lexical function. Thus the stem <u>mahir</u> is a fixed morpheme in relation to morphology, but as part of the fientive verb, Pass. Part., Stat., etc., it has various functions in relation to the lexicon. Both the prefix and suffix in <u>ja+mhur+ũ</u> are changeable inflectional elements, but the prefix <u>ša</u> in <u>ju+ša+mhir+ũ</u> has a lexical function, being part of the extended stem +ša+mhir+.

#### 0.2. Sequential Morphemes

The affixes referred to above under O.l. Linguistic Data I call "sequential morphemes." I call them "sequential" because they appear in a certain ordered sequence, which is obligatory and immutable. For some inconsistencies, apparent but not real, see 0.4. Application.

Illustrations of sequential morphemes are given in <u>Chart 1</u>. For the use of signs and symbols, see pp. xxif.

The sequential morphemes can be suffixal, prefixal, or both suffixal and prefixal.

The first three suffixal sequential morphemes in the nouns, pronouns, verbs, and statives, plus the first prefixal sequential morpheme in the fientive verbs denote the gender, number, and case / mood of the subject. They correspond to what normally are called "inflectional elements," which are included under declension or conjugation in our grammars.

The fourth suffixal sequential morpheme denotes the object.

2

PREFIXES		STEM	SUFFI	XES	ATTESTED				
Pron. I	Pron. II	"Modal"	STEM	GENDER	NUMBER	CASE MOOD	OBJECT	ENCL.	
			kalb	+u	+:	+yí	+su	(+ma) etc.	kalbušuma
			kalb	+a	+Ø	$t^{+}t^{u}$	+m		kalbatum
			š	+u	+Ø	+a			šua
			<b>*</b> 5	+u	+_u	+)¢			sunu
			mahjr	+a	+Ø	+)4	+Ø		mahra(t)
			mahjir	+a	+:	+)⁄	+sum		mahrasum
ja	+Ø	+Ø	+møhur	+u	+:	+)/	+šu		jamhurūšu
ju	+54	+ta	+m¢hir	+u	+:	+)4	+Ø		juštamhirū
	su	+ø	+m <b>a</b> hur	+u	+Ø	+)⁄2	+m		šumhurum
	šu	+t¢í	+mahhur	+u	+Ø	+)¢	<b>+</b> m		sutmahhurum

Chart 1. Illustrations of Sequential Morphemes.

The object appears overtly in the form of pronominal suffixes, or covertly in the form of zero or  $\underline{m}$  (of the mimation =  $\underline{n}$  of the nunation) which signals the absence of the object.

The fifth suffixal sequential morpheme denotes the enclitics and is optional.

The second and third prefixal sequential morphemes in the fientive verbs and verbal nouns form parts of the extended stem.

As can be seen from <u>Chart 2</u>, the distribution of sequential morphemes varies considerably from one word class to another. Structural limitations in the distribution of sequential morphemes can be either full or partial. The first ones are marked by --, the latter by (x).

WORD CLASSES	PREFIX	(ES	stem	SUFFIXES							
		INFL. STEMS (extended) (s			STEM simple						
	Rank	l	2	3	STEM	l	2	3	4	5	
		Pron. I	Pron. II	"Modal"	I	GEN.	NUM.	CASE MOOD	OBJ.	ENCL.	
Noun,											
Primary,											
Subst.					x	x	x	x	x	(x)	
Adj.					x	x	x	x	(x)	(x)	
Voc.					x	x	x		x	(x)	
Verbal,											
Inf.			x	x	x	x	x	x	x	(x)	
Act. Part. (Subst.)		x	x	x	x	x	x	x	x	(x)	
Pass. Part (Adj.)	•		x	x	x	x	x	x	(x)	(x)	
Voc.		(x)	x	x	x	x	x		x	(x)	
Pronoun,											
Det.					x	x	x	x	(x)		
Pers.					x	x	x	х		(x)	
Verb,											
Fientive		x	x	x	x	x	x	x	x	(x)	
Impv.			x	x	x	x	x		x	(x)	
Stative		(x)	x	x	x	x	x	x	(x)	(x)	

Chart 2. Distribution of Sequential Morphemes.

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### 0.2. Sequential Morphemes

Primary substantives, such as <u>kalb+um</u> "dog," primary adjectives, such as <u>tab+um</u> "good," and pronouns, such as  $\underline{s+u}$  "he," contain suffixes only.

Fientive verbs, such as  $ja+mhur+\bar{u}$  "they received,"  $ju\bar{s}a+mhir+\bar{u}$ "they caused it to be received," and Stat., such as  $mah\bar{z}r+\bar{u}$  "they were received,"  $mu\bar{s}a+mhir+\bar{u}$  "they were causing it to be received," may occur with all prefixes and suffixes.

Among the verbal nouns, the Act. Part. occurs with all prefixes and suffixes, as in <u>muša+mhir+um</u> "the one who caused it to be received." The first prefix <u>mu</u> signals the absence of the first inflectional prefix, <u>a</u>, <u>ta</u>, <u>ja</u>, etc., in the fientive verb. Other verbal nouns, such as the Pass. Part. and Inf. in <u>suta+mhur+um</u>, and the Impv. in <u>suta+mhir+ā</u> have prefixes of rank number 2 and 3 and all suffixes.

Further illustrations of limited structure are found in the pronouns. Thus determinative pronouns cannot be followed by enclitics, and personal pronouns cannot be followed by objects. A special word class in the Semitic languages (as well as in the Indo-European languages) is formed by the Voc. of the nouns and Impv. of the verbs, which have no case / mood. This statement is not to be obscured by the fact that the Nom. is often found in the function of a Voc.

Instances of partial limited structure are marked by (x). Thus adjectives cannot be followed by an object, but take the mimation of the governing noun. Determinative pronouns take no object in the form of pronominal suffixes or mimation, but are used in Constr. St. with the nominal object, as in <u>su sarrim</u> "he of the king." Statives take an object in the 1st and 3rd persons, as in <u>taklāku+šum</u> "I rely upon him," <u>takil+šum</u> "he relies upon him," but not in the 2nd person

\*<u>taklata+sum</u> "thou reliest upon him." Only <u>mu</u> of the first rank prefixes can occur in Voc. of the verbal nouns. The optional use of the enclitics is marked in the chart by (x).

As can be seen clearly from <u>Chart 2</u>, word classes with prefixes never occur without suffixes.

# 0.3. Sequential Reconstruction

The comparative method of linguistics, as successfully applied in the Indo-European field, has played a limited role in the reconstruction of the phonology and morphology of Proto-Semitic. More often than not, certain sounds and forms were reconstructed on the basis of personal, subjective evaluations, which generally resulted from equating Proto-Semitic with classical Arabic. The most disappointing, as far as I am concerned, in the comparative field of Semitics is C. Brockelmann, <u>Grundriss der vergleichenden Grammatik</u> <u>der semitischen Sprachen</u> (Berlin, 1908). The unbelievable jumble of materials and uncritical judgments accumulated in its 1,408 pages and Brockelmann's (undeserved) reputation are veritable pitfalls for the unwary and inexperienced.

One shudders to think of the reaction of a Brugmannite to Brockelmann's fantastic ideas about the Proto-Semitic case endings (<u>GVG</u> I pp. 459f.), taken to be  $\underline{\tilde{u}}$ ,  $\underline{\tilde{i}}$ , and  $\underline{\tilde{a}}$  (all <u>anceps</u>), and derived as follows: Nom.  $\underline{\tilde{u}}$  from the pronoun <u>hū</u> "he" (where the simplest distributional analysis would show that the pronoun <u>hū</u> / <u>sū</u> has nothing to do with the noun); Gen.  $\underline{\tilde{i}}$  from the <u>nisbe</u> formation  $\underline{\tilde{ij}}$  (where simple parallels in the Indo-European languages, such as "<u>meios</u>, <u>meus</u> from "<u>mei</u>, point to the reverse development); and Acc.  $\underline{\tilde{a}}$  from the interjection <u>hā</u> (where no comments are necessary).

I shall discuss in the following pages three cases of a formal reconstruction in the Semitic field. They all concern the personal pronoun; but since the personal pronoun forms part of the structure of the verb and stative, the following discussion affects much broader aspects of the morphology of Semitic languages.

a) On the basis of the personal pronouns occurring for the 2nd person Masc. and Fem., namely attunu, attina in Akkadian, Pattem. <u>Patten</u> in Hebrew, <u>Pantun</u>, <u>Panten</u> in Aramaic, <u>Pantum(u)</u>, <u>Pantunna</u> in Arabic, and <u>antammu</u>, antan in Ethiopic, scholars have reconstructed for Proto-Semitic either <u>antumu</u>, <u>antin(n)a</u> (Brockelmann, GVG I p. 301; Moscati, ICG p. 105; Diakonoff, SHL p. 71), or <u>Pantunu</u>, Pantina (Zimmern, VGSS p. 59). The former reconstruction is based mainly on Arabic, the latter on Akkadian. Moscati, loc. cit., noted the distinctive vowels  $\underline{u} // \underline{i}$  and the consonants  $\underline{m} // \underline{n}$  in the two pronouns, while Zimmern, op. cit. p. 60, recognized the gender differences u // <u>i/a</u> and remarked that the Pl. seems to be formed by the addition of <u>nu</u>, <u>na</u> to the Sg. in this person as well as in the other persons of the personal pronoun. The question as to which reconstruction is to be favored is not difficult to answer. Zimmern and, less clearly, Moscati, find the gender differentiation in Masc.  $\underline{u}$  // Fem.  $\underline{i/a}$ , which agrees fully with the structure of the gender in all Semitic languages. Moscati's gender differentiation  $\underline{m}$  //  $\underline{n}$ , occurring in some personal pronouns of some Semitic languages, descriptively correct as it is, finds no support in the gender structure of Proto-Semitic. Furthermore, it does not fit the Pl. form of the 1st person pronoun ('a)nahnu, ninu, etc., "we," which -- no matter what its ultimate derivation -regularly contains the consonant  $\underline{n}$  (never  $\underline{m}$ ).\* Thus  $\underline{n}$  can be interpreted as part of the marker of the Pl. number, but not as a marker

of the Fem. gender. On the other hand, Zimmern's interpretation of the number as being formed by the addition of <u>nu</u>, <u>na</u> to the Sg. is part of the structure of all personal pronouns, as it agrees fully with the principle that the Pl. is formed by the doubling of the gender vowel of the Sg. This doubling is realized in two ways, by a long vowel, as in Sg. <u>kalbum Pl. kalbūm</u>, or Sg. <u>kalbatum Pl. kalbātum</u>, or by two vowels with a consonantal glide <u>n</u>, as in Sg. <u>Ši</u> Pl. <u>Šunu</u> (originally <u>Šu+</u><u>u</u>, with a consonantal glide) or Sg. <u>Ši</u> Pl. <u>Šina</u> (from <u>Ši+</u><u>n</u>). See 2.1.

b) From the occurrence of the personal pronouns of the 3rd person Sg. as  $\underline{su}$ ,  $\underline{si}$  in Akkadian,  $\underline{hu}$ ,  $\underline{hi}$  in Hebrew and Aramaic, <u>huwa</u>, <u>hija</u> in Arabic, <u>wə'ətū</u>, <u>jə'əti</u> in Ethiopic, the reconstructed Proto-Semitic forms are given as Masc. <u>hū'a</u>, Fem. <u>ši'a</u> (Brockelmann, <u>GVG</u> I p. 303), <u>huwa</u>, <u>šiya</u> (Moscati, <u>ICG</u> p. 104), Masc. <u>šū'a</u>, <u>hū'a</u>, Fem. <u>ši'a</u>, <u>hi'a</u> (Zimmern, <u>VGSS</u> p. 59), and Masc. <u>sū('a)</u>, Fem. <u>ši('a)</u> or <u>gi('a)</u>? (Diakonoff, <u>SHL</u> p. 71). The observations which can be made immediately about the occurring pronouns are first, that <u>šu</u>, <u>ši</u> are found in Akkadian and <u>hu</u>, <u>hi</u> in other Semitic languages, and secondly, that the gender differentiation is marked by <u>u</u> in Masc. and <u>i</u> in Fem. The <u>a</u> of <u>huwa</u>, etc., originally represented the object case. The Ethiopic <u>wə'ətū</u> is derived from <u>hu+a+tu</u>, and <u>jə'əti</u> from <u>hi+a+ti</u>. See 1.3 and 1.5.

Nevertheless, some scholars prefer to see the contrast between  $\underline{h} //\underline{s}$  as denoting the original gender differentiation in Proto-Semitic. The basis on which this reconstruction was made is difficult to determine. It may be founded on the existence of Masc. <u>he</u>, Fem. <u>se</u> in Mehri, a late South Arabian dialect, or on some vague recollections of the English pronouns "he" and "she," or possibly even on the scholastic precepts that anything rare and irregular (<u>lectio difficilior</u> in epi-

graphy!) has temporal precedence over the common and regular. The whole reconstruction breaks down when one notes that  $\underline{ju+\check{s}a+m\check{h}ir+u}$ occurs in Akkadian and  $\underline{ju+ha+m\check{h}ir+u}$  (and related forms) occurs in other Semitic languages. The meaning of  $\underline{ju+\check{s}a/ha+m\check{h}ir+u}$  is "he (here) caused him/it (there) to be received," and  $\underline{\check{s}a/ha}$  is nothing else but the Acc. of our personal pronoun  $\underline{\check{s}u/hu}$  (see 8.1). Would anyone suggest that  $\underline{\check{s}}$  of  $\underline{\check{s}a}$  in  $\underline{ju+\check{s}a+m\check{h}ir+u}$  denotes the Fem., and  $\underline{h}$  of  $\underline{ha}$  in ju+ha+mhir+u the Masc.?

Thus, on the basis of the structure, the only reconstructed markers of the gender in the pronoun of the 3rd person (as well as of other pronouns) are <u>u</u> for the Masc. and <u>i</u> for the Fem. The differentiation marked by <u>m</u> // <u>n</u> in Masc. <u>`antumu</u>, Fem. <u>`antina</u>, and by <u>h</u> // <u>s</u> in Masc. <u>he</u>, Fem. <u>se</u>, is explained on a dialectal basis in 2.2.

c) Based solely on the existence of the pronominal suffix <u>ka</u> in <u>kalbu+ka</u> "thy dog" and <u>ja+mhuru+ka</u> "he received thee," all the grammars of Semitic languages, without exception, posit <u>ka</u> as the underlying form of the 2nd person Masc. Sg. for Proto-Semitic and all Semitic and Hamitic languages. The reconstruction goes back to a time centuries ago, when only West Semitic languages such as Hebrew, Arabic, Aramaic, and Ethiopic were known. Today, with all the new evidence furnished by Akkadian and Hamitic languages, this reconstruction has no <u>raison d'être</u>. Note Akkadian <u>ku+ati</u> "thee" in Acc., <u>ku+ašim</u> "to thee" in Dat., Poss. Pron. <u>ku+aum</u> "thy," pronominal Dat. suffix <u>kum</u> in <u>ja+mhuru+kum</u> "he received for thee," Egyptian <u>kw</u> and secondarily <u>tw</u> "thou," and related forms in other Hamitic languages, all of which show <u>u</u>, not <u>a</u>, in the Masc. pronoun. This quantitatively weighty evidence in favor of <u>ku</u>, not <u>ka</u>, in the Masc. pronoun is supported by considerations of the structure of the gender, which posits the

marker  $\underline{u}$  for the Masc. and  $\underline{i}$  for the Fem., as in the two other pronouns just discussed. For the above interpretation and for the derivation of <u>ka</u> from <u>ky</u>(a, see 8.3.

Unhappy with the arbitrary results of the comparative method as applied to the Semitic field, and fully convinced that considerations of structure would yield a deeper insight into the manifold aspects of linguistic reconstruction, I decided in 1952 to put together my ideas in a preliminary way on paper. The resulting small monograph, <u>Morphology of Akkadian</u>, was reproduced by the Multigraph-Multilith process and distributed to my students and, in a limited number, also to outsiders, both students and scholars. While the term "ideal reconstruction" used there (<u>op. cit</u>. p. 3) is not quite appropriate, its underlying concepts of structure are as valid now as before.

The concept of structure, as I understand it, is based on two main premises: 1) structure is form, function, and position, 2) structure is total.

There is no need for me to discuss matters of form and function, which are taken care of, with varying degrees of success, in our grammars of Semitic languages.

By contrast, matters of position are rarely touched, let alone discussed. Certain obvious facts are noted, such as that the mimation occurs at the end of the noun, or that case endings appear before the pronominal suffixes. But such crucial matters of structure as the position and sequence of the morphemes of gender, number, case / mood, etc., have been uniformly passed over in all grammars and studies of Semitic languages.

Long ago I stressed the importance of position in A Study of

Writing, p. 19 by noting, e.g., that the written number 2 in 32 has a different position and consequently function (meaning) from  $^{2}$  in 3<sup>2</sup>. The matter of position (or rank, order, sequence, tactics) of individual morphemes was presented in my Morphology of Akkadian, but not as neatly as might have been desired. In 1952 I already perceived that the suffixes follow each other in a definite sequence, namely as morphemes of gender, number, case, and mimation, but for didactic purposes (see Morphology of Akkadian, p. 3) I presented them in reverse sequence. Recently, upon a fuller and more vigorous application of the principles of sequence it was possible for me to discover many important points of Semitic structure, as summarized under 11. CONCLUSIONS. This sharper view of sequential morphemes resulted from my computer-aided work on the morphology of Amorite. While the actual analytical work on sequential morphemes is the same whether for a written grammar or for computers, due to certain technical limitations, what can be put into the computers is different from what can be presented in a written grammar. It is for that reason that the sequential morphemes given in computer format in the chart in the article "On the Morpheme an in the Amorite Language," Studies Presented to George V. Bobrinskoy (Chicago, 1967) pp. 45-48, are presented in a much more condensed form than in the present study.

Procedures involved in sequential reconstruction require two main steps, not necessarily successive. Each segment of a speech unit to be analyzed must be accounted for and its form and function determined; the markers for each segment must be denoted in their proper sequence within the speech unit.

The form kalabsuma in Masc. Nom. Sg. is normally segmented

into kalab+su+ma, in which ma is said to stand for the enclitic, su for the pronominal suffix, and kalab for the stem kalb, extended to kalab by means of an anaptyctic / epenthetic vowel a. Nowhere in this segmentation is the existence of the morphemes of gender, number, or case overtly indicated. But the corresponding Gen. Sg. is kalb+i+su+ma, showing the marker i for the Gen., immediately forcing the assumption of the marker Ø for the Nom. Sg. in kalab+Ø+su+ma. The same marker i appears partially also in the Gen. Pl. kalb+ 1+su+ma. which is replaced by the marker u in the Nom. Pl. kalb+u+su+ma. This leads to two important conclusions. The first conclusion is that, in contrast to the Gen. marker i, the Nom. marker is u, thus making possible the replacement of the above kalab+Ø+šu+ma by kal(a)b+Ø+su+ma in Nom. The second conclusion is that the markers of Pl. represent the same vowels, only doubled (long). Nothing in the forms discussed up to now indicates the overt existence of the Masc. marker in Akkadian.

Passing now to the Fem. Nom. Sg. <u>kalb+at+šu+ma</u>, we note first the overt marker <u>at</u> for the Fem. The existence of the marker for the Fem. Nom. Sg. immediately requires a search for the corresponding marker of the Masc. The Fem. Gen. Sg. <u>kalb+at+i+šu+ma</u> shows <u>i</u>, the marker of the Gen., following upon <u>at</u>, the marker of the Fem. This yields a crucial clue for sequential reconstruction, namely that the marker of case follows upon the marker of gender. The Fem. Pl. forms, Nom. <u>kalb+āt+u+šu+ma</u> and Gen. <u>kalb+āt+i+šu+ma</u>, confirm the results reached on the basis of the Masc. Pl. forms, Nom. <u>kalb+ū+šu+ma</u> and Gen. <u>kalb+i+šu+ma</u>, namely that the markers of case are <u>i</u> for the Gen. and <u>u</u> for the Nom., and that the markers of number are short vowels for the Sg. and long vowels for the Pl. In

#### 0.3. Sequential Reconstruction

addition, the Fem. forms <u>kalb+āt+u+šu+ma</u> and <u>kalb+āt+i+šu+ma</u> yield another important clue of sequential value, namely that the number is formed by lengthening the vowel of gender, not of case. This requires a reconsideration of our analysis of  $\underline{\tilde{u}}$  in Masc. Pl. <u>kalb+ū+šu+ma</u>. If  $\underline{u}$  stands for the Nom. and <u>āt</u> for the Fem. Pl. in <u>kalb+āt+u+šu+ma</u>, then  $\underline{\tilde{u}}$  in <u>kalb+ū+šu+ma</u> must stand for a conflation of  $\underline{u}$  of the Nom. and  $\tilde{u}$  of the Masc. Pl.

Certain additional features in the speech units discussed above are: The replacement of standard <u>kalab+šu+ma</u> by <u>kalb+u+šu+ma</u>, actually occurring in older Akkadian texts and in poetry; the phonetic change <u>t+š</u> to <u>as in kalbat+šuma</u> > <u>kalbassuma</u>; the secondary lengthening of the vowels <u>u</u> and <u>i</u> before pronominal suffixes in <u>kalbātūšuma</u> and <u>kalbātīšuma</u>; and the interpretation of <u>t</u> in Fem. <u>kalbatum</u>, etc., as the consonantal glide secondarily introduced between the gender vowel <u>a</u> and the case vowel <u>u</u>. All these features, irrelevant in the present context, are discussed in detail in the respective chapters pertaining to gender, number, and case.

We have accounted for the different segments of the speech units analyzed above, determined their form and function, and reached certain preliminary conclusions as to their sequence within the speech units.

Once this is done, the procedures involved in sequential reconstruction require a one-by-one denotation of each segment in its proper sequence. Thus, if <u>atu</u> is found to stand for the Fem. Pl. Nom., then each of the morphemes of gender, number, and case must be denoted by a marker in the sequence  $\underline{a+:+}_{\underline{t}}\underline{u}$ , where <u>a</u> stands for the Fem. gender, <u>:</u> for the Pl. number, and <u>u</u> for the Nom. case. Similarly <u>u</u> representing Masc. Pl. Nom. must be marked as  $\underline{u+:+\mu}$ , where <u>u</u> stands

for the Masc. gender, <u>:</u> for the Pl. number, and <u>¥</u> for the Nom. case. Thus we see the contrast to such traditional procedures as breaking up <u>kalbūšuma</u> "and his dogs" into <u>kalb+ū+šu+ma</u> and analyzing it as containing the stem <u>kalb</u>, plus <u>u</u> of the Masc. Pl. Nom., plus the pronominal suffix <u>šu</u>, plus the enclitic <u>ma</u>. Procedures of sequential reconstruction result in the replacement of <u>kalb+ū+šu+ma</u> by <u>kalb+u+:+¥+</u> <u>šu+ma</u>, in which--as shown in <u>Chart 1</u>--the successive morphemes are marked as the stem <u>kalb</u>, plus <u>u</u> for the Masc. gender, plus <u>:</u> for the Pl. number, plus <u>¥</u> for the Nom. case, plus the object <u>šu</u>, plus the enclitic <u>ma</u>.

Determination of form, function, and sequence of individual speech segments requires starting with speech units which can be easily segmented into their component parts. This cannot easily be done with the Masc. <u>kalbūšuma</u>, with its immediate difficulties in the analysis of the gender and case markers, both represented by <u>u</u>. On the other hand, the corresponding Fem. <u>kalbātušuma</u> can be easily analyzed as <u>kalb+a+:+tu+šu+ma</u>, in which all five sequential components after the stem can be readily recognized.

With the morphemes and markers established for one word class, such as the noun, the search for parallel morphemes and markers in other word classes such as the pronoun, verb, and stative, is necessary. This may or may not confirm the conclusions based on one word class.

All identical morphemes and markers irrespective of the word class in which they occur belong to the same structure. All other morphemes and markers belong to a different structure. Thus the Nom.  $\underline{u}$  // Gen.  $\underline{i}$  contrast in the instances discussed above, the Nom.  $\underline{u}$  // Gen.  $\underline{i}$  // Acc.  $\underline{a}$ , Nom.  $\underline{u}$  // Gen.  $\underline{a}$ , and Nom.  $\underline{u}$  // Gen./Acc.  $\underline{i}$ 

contrasts belong to one structure of case in the nouns. The Ind.  $\underline{u}$  // Subj. <u>a</u> contrast in the mood of the verbs and statives also belongs to the same structure. On the other hand, the case markers <u>is</u> for the Dat. and <u>um</u> for the Loc. belong to a different case structure, as do the allative / ventive mood of Akkadian or the energic of Arabic.

A few pages above I noted that the two main steps involved in sequential reconstruction are not necessarily successive. This is quite obvious. It is true, of course, that a correct analysis of a speech segment leads easily to its placement in the proper sequence, as in the case of the analysis and sequential reconstruction of <u>kalb+a+:+tu+su+ma</u>, discussed above. Oftentimes, however, the procedure is reversed or even circular.

The reverse procedure is illustrated by the case of <u>m</u> of the mimation and <u>mu</u> of the Act. Part. All interpretations in respect to the form and function of mimation (or nunation) in Semitic languages proposed heretofore have been wrong. It was only the positional analysis, showing that the marker of mimation in <u>kalb+u+#+####</u> occupies the same rank as the markers of the pronominal suffixes, such as <u>su</u> in <u>kalb+u+#+####</u>, that led to the correct analysis of <u>m</u> of the mimation as the marker signaling the absence of pronominal suffixes. The prefix <u>mu</u> of <u>muštamhirum</u> is traditionally described as the marker of the Act. Part. The positional analysis shows that the marker <u>mu</u> of the Act. Part. <u>mu+se+ta+methir+um</u> occupies the same rank as the inflectional markers of the fientive verb, such as <u>ju</u> in <u>ju+se+ta+</u> <u>methir+u</u>. Consequently, <u>mu</u> of the Act. Part. serves a function parallel to that of the mimation, namely, signaling the absence of inflectional elements. These two conclusions in respect to the

function of <u>m</u> of the mimation and <u>mu</u> of the Act. Part. lead to another important conclusion. If <u>kalbu+su</u> means "dog of his" and <u>ju+sta+mhir+u</u> means "he caused it to be received," then <u>kalbu+m</u> (from <u>kalbu+ma</u>) should mean "dog of anyone" and <u>mu+sta+mhir+um</u> should mean "anyone who caused it to be received," making probable the derivation of <u>ma</u> and <u>mu</u> from the indefinite pronoun <u>mu</u>, <u>mi</u>, <u>ma</u>. See 4.3.

A case of circular procedure can be illustrated by the analysis of mood and case. The form and function analysis of the mood in relation to the case is controversial. Some scholars interpret the mood as being identical with the case, others do not. The positional analysis of the mood shows that markers of the mood occupy the same rank as those of the case, thus strengthening the position defended by scholars who had proposed their identity. See 3.13.

As here developed, the five most important rules of sequential reconstruction are:

a) All morphemes occur in a certain ordered sequence. In the case of the suffixal morphemes in <u>kalb+u+:+y+su+ma</u>, the order after the stem is gender, number, case, object, and enclitics.

b) This order is absolute and immutable. I know of no instance of a morpheme which appears in the wrong sequential order. Among the suffixal morphemes, gender can never occur after number, nor number after case (or mood), nor case after object, nor object after enclitics. The same applies to the prefixal morphemes.

c) There is no skipping of a morpheme in sequential order. With the morpheme of case established for the noun, the markers of case must be denoted in all occurrences of the noun. Only certain structural limitations (discussed in 0.2) permit the non-marking of a morpheme, as in the instance of the Voc. of a noun, which does not

recognize case distinction.

d) Morphemes are normally obligatory, very rarely optional. Thus in the case of suffixal morphemes, the morphemes of gender, number, case (or mood), and object are all obligatory. The fifthranked morpheme, denoting the enclitics, is lexical and therefore optional.

e) The morpheme markers are either overt or covert. All five overt markers are recognizable clearly in <u>kalb+a+:+tu+m+ma</u> /<u>kalbātumma</u>/"and bitches." The covert markers are denoted in two ways: by a cross-out, as in <u>kalb+u+:+y+su+ma</u> / <u>kalbūsuma</u>/ "and his dogs," where <u>y</u> denotes the disappearance of <u>u</u>, the posited marker of the Nom. case; or by <u>Q</u>, as in <u>kalb+u+:+y+<del>Q</del>+ma</u> / <u>kalbūma</u>/ "and dogs," where <u>Q</u> denotes the absence of object (in this case, the pronominal suffix).

For general information in the field of linguistics on morpheme sequence, the following studies are useful. Charles F. Hockett, "Two Models of Grammatical Description," <u>Word</u> X (1954) pp. 210-234, speaks of arrangement, positions, and segmental sequence in the discussion of "Item and Arrangement" under his "IA model." H. A. Gleason <u>An Introduction to Descriptive Linguistics</u> (New York, 1955; rev. ed. 1961) pp. 112-116, discusses the order and sequence of morphemes, generally, and in the Turkish verb, specifically. Kenneth L. Pike, <u>Language in Relation to a Unified Theory of the Structure of Human</u> <u>Behavior</u> (Glendale, Cal., 1960) pp. 26f., stresses a combinational grammar, which is said to be based mainly on sequential relations corresponding to the earlier approaches on "the application of immediate constituents or a grammar as composed of classes of morphemes in a row." This kind of grammar is differentiated from the "hierarchical grammar," better known under Pike's term "tagmemics" and the later "transform(ational) grammar."

For the application of sequential analysis to individual languages see the following studies: Harry Hoijer, five articles on Apachean in International Journal of American Linguistics XI-XV (1945-49), speaks of immediate constituents and definite assigned positions. William L. Wonderly, six articles on Zogue in IJAL XVII-XVIII (1951-52), has reference to sequences of items, statements of sequence, and morphological sequences. Floyd G. Lounsbury, Oneida Verb Morphology, Yale University Publications in Anthropology No. 48 (1953), refers to segmentation and position classes. D. H. Hymes, "Positional Analysis of Categories: A Frame for Reconstruction," Word XI (1955) pp. 10-23, discusses features of order or sequential order of morphemes in Athapascan languages. Velma Pickett, "Isthmus Zapotec Verb Analysis I-II," IJAL XIX (1953) pp. 292-96 and esp. XXI (1955) pp. 217-32, and idem, The Grammatical Hierarchy of Isthmus Zapotec, Supplement to Language, Language Dissertion No. 56 (1960), distinguishes two types of linguistic structures, the "external structure," based on the application of Pike's tagmemics to units of grammatical hierarchy (in the Language Dissertation), and the "internal structure," based on morpheme sequence (in the two IJAL articles). Wallace L. Chafe, eight articles on Seneca in IJAL XXVI-XXVII (1960-61), refers to order, mutually exclusive classes of morphemes, and immediate constituents. I have noted a number of other articles based on sequential analysis in scattered IJAL volumes and in Harry Hoijer and others, Studies in the Athapascan Languages (Berkeley, 1963).

I acknowledge with thanks Professor Eric Hamp's help in provid-

#### 0.3. Sequential Reconstruction

ing me, directly or indirectly, with references to the literature in the Amerindian field. Since I became acquainted with them long after the completion of my work, they exerted no influence upon my methods of sequential reconstruction or terminology. I am happy, however, to report that I find myself in agreement with the theoretical analysis provided by Hymes in the above cited article in <u>Word</u> XI. Important for the theoretical question of linguistic classification (language taxonomy) is Hymes, "Na-Déné and Positional Analysis of Categories," <u>American Anthropologist</u> LVIII (1956) pp. 624-638. The Amerindian literature is cited here in full to offer scholars in the ancient Near Eastern field the opportunity to check on the methods and application of sequential reconstruction, which holds such great promise for the analysis not only of agglutinative languages, such as Sumerian, but also of Hurrian, Urartian, and Elamite.

A number of further observations can be made about the studies listed above. They treat of morpheme sequence either within larger speech segments, such as utterances or sentences, which is of no interest to us here, or within smaller speech segments, such as word classes. When discussing the morpheme sequence, the authors frequently limit themselves to one class, namely the verb, neglecting other word classes. Illustrations of morpheme sequence have been applied to the Amerindian languages and to Turkish, all agglutinative (synthetic or polysynthetic) languages, in which the individual morphemes can be segmented with relative ease. Only Hymes, <u>Word</u> XI pp. 19f., offered some suggestions concerning the application of morpheme sequence to the structure of the finite verb in the (non-agglutinative) Indo-European languages.

In recent years several scholars have utilized methods of

morpheme sequence in the study of certain features of ancient Near Eastern Languages. T. Jacobsen, "<u>Itallak niāti</u>," <u>Journal of Near</u> <u>Eastern Studies</u> XIX (1960) pp. 101-116, and "The Akkadian Ablative Accusative," <u>op. cit</u>. XXII (1963) pp. 18-29, discussed the morpheme sequence in the moods and pronominal suffixes of the verb. He devoted a much broader study to the sequential morphemes of the Sumerian verb, entitled "About the Sumerian Verb" and published in <u>Studies in Honor of Benno Landsberger</u>, <u>Assyriological Studies</u> No. 16 (1965) pp. 71-102. In an article entitled "Die Stämme des altbabylonischen Verbums in ihrem Oppositionssystem," <u>op. cit</u>. pp. 111-120, D. O. Edzard discusses the sequence of certain verbal stems within the context of his oppositional system. In the only reference to morpheme sequence in the grammar, Reiner, <u>LAA</u> § 5.4.2.3, speaks of the "relative preference sequence of (three) verbal suffixes."

While I cannot but welcome the recent attempts to apply the principles of morpheme sequence to the structure of ancient Near Eastern languages, especially Jacobsen's serious, though cumbersome and unbelievably complicated reconstruction of the Sumerian verb, I feel obliged to express dissent. The use of such terms as "relative preference" for my "absolute" and "obligatory" is the result of the neglect of the concept of zero; and the restricted application of the sequential reconstruction to parts of the linguistic structure yields results in respect to specific markers and their sequence which are completely at odds with my own reconstruction.

In order to understand the concept of the totality of structure I shall first discuss the traditional way in which gender is treated in our grammars of Semitic languages. As an example I

shall take one of our best grammars, von Soden's <u>Grundriss der ak-</u> kadischen Grammatik (Roma, 1952).

Von Soden begins his treatment of the noun with the following statement: "Das Nomen unterscheidet Maskulinum und Femininum" (p. 74). On the next page he adds: "Das Mask. hat keine besondere Endung. Im Fem. mit Endung tritt im Sing. die Endung <u>-t</u> bzw. <u>-at(-et)</u> an den Stamm des Nomens vor die Kasusendungen." Under pronoun (pp. 40-51), certain forms of gender (and case) are listed, but not a word is said about the general structure of the gender of the pronouns. Under the fientive verb and stative (pp. 97-99), we find nothing b"<sup>+</sup> paradigms of conjugational elements.

Von Soden's only statement relating to structure is the first one mentioned above: "Das Nomen unterscheidet Maskulinum und Femininum." The gender structure of the pronoun, verb, and stative is nowhere considered. Had the structure of the gender of the pronoun been taken into consideration, it would have been impossible, or at least improbable, to arrive at the conclusion that the Masc. has no endings, and that the Fem. has  $-\underline{t}$  or  $-\underline{at}(-\underline{et})$  markers. Positively speaking, it would have been easy to see that  $\underline{u}$  of <u>kalbum</u> is not a marker of the Nom. case, but of the Masc. gender, and that the marker of the Fem. is not  $-\underline{t}$  or  $-\underline{at}(-\underline{et})$ , but  $\underline{a}$ . This results clearly from a total consideration of the gender, not only in the noun, but also in the pronoun, verb, and stative, as shown, e.g., by the determinative pronoun Masc.  $\underline{su}$  and Fem.  $\underline{sat}$  (wherein  $\underline{t}$  is secondary), the verb Masc. jamhurū and Fem. jamhurā, and the stative Masc. mabfrū and Fem. mahfrā. See generally 1.1.

It should be clear by now that what I found most wanting in the available grammars of Semitic languages is: 1) the holistic approach

to language, namely the understanding of the totality of the linguistic structure, and 2) the recognition of the principle of order in linguistic analysis, and the concomitant realization that morphemes must follow each other in a certain obligatory and immutable sequence. It is the word "sequence" that serves as the basis for what I propose to call "sequential reconstruction."

In completing this section I should like to comment on the relative merits of the comparative method, on the one hand, and the ideal and/or sequential reconstruction, on the other. I can best compare these approaches by discussing a case of a reconstruction of a certain proto-form in Semitic languages.

The comparative method leads to the reconstruction of the 2nd person Fem. Sg. as <u>tamhurina</u> in West Semitic. The long vowel  $\underline{i}$  is written as such in the historically attested West Semitic languages, and is posited by <u>na</u>, which is preserved only after a long vowel. Since cuneiform writing as a rule does not indicate morpheme length, contrary to von Soden, <u>GAG</u> p. 98, and Ungnad-Matouš, <u>GA</u> p. 63, who mark <u>tamhuri</u> with long  $\underline{i}$ , there is no evidence for long  $\underline{i}$  in Akkadian. Thus the reconstruction of Proto-Semitic <u>tamhurina</u> or <u>tamhuri</u>, with long  $\underline{i}$ , as in Moscati, <u>ICG</u> p. 144, and Diakonoff, <u>SHL</u> p. 80, derives from West Semitic and has no validity for Proto-Semitic.

Based on sequential reconstruction, the following procedure leads to a reconstructed Proto-Akkadian and Proto-Semitic form of the 2nd person Fem. Sg.

a) Sequential reconstruction yields the following markers of the gender in Proto-Akkadian, as well as in Proto-Semitic:  $\underline{u}$ for the Masc., and  $\underline{a}$  or  $\underline{i}$  for the Fem., all short vowels. Accordingly, <u>tamburi</u> has a short  $\underline{i}$ , and the secondary development of the long <u>i</u> in West Semitic is the concern of West Semitic reconstruction, not of Proto-Akkadian or Proto-Semitic.

b) Sequential reconstruction yields the following markers of the number:  $\cancel{0}$  (i.e., zero) for the Sg. and <u>:</u> (i.e., doubling of the vowel of the gender) for the Pl. Thus the existence of the Sg. <u>tamhuri</u> posits the existence of the Pl. <u>tamhuri</u>, which is contrary to <u>tamhura</u>, the only form of the 2nd person Fem. Pl. attested in all Semitic languages. Consequently, by the rules of sequential reconstruction, the attested <u>tamhura</u> would have to be taken as devela oped secondarily from <u>tamhuri</u>, and marked as <u>tamhuri</u>. However, we could also reverse the procedure and argue that the existence of the Pl. <u>tamhura</u> posits the existence of the Sg. <u>tamhura</u> (to be marked as <u>tamhuri</u>), which in turn is not attested anywhere in Semitic languages.

c) By the rules of sequential reconstruction, the Sg. // Pl. contrast <u>must</u> be reconstructed either as <u>tamhuri</u> // <u>tamhuri</u> or as <u>tamhuri</u> // <u>tamhurā</u>. Which of the two reconstructions is to be selected is irrelevant in the present context. (Actually, I prefer the <u>tamhuri</u> // <u>tamhurā</u> solution because of the assumption that the suffixal sequential morphemes of the fientive verb correspond to those of the noun, and because <u>i</u> of <u>tamhuri</u> can easily be explained as developed secondarily through influence of <u>i</u> in <u>Panti</u> "thou." The important point at issue is that by the procedures of the comparative method one could never have arrived at either of the two solutions suggested by sequential reconstruction.

In my Morphology of Akkadian p. 3 (noted p. 10) I remarked that "I have allowed myself a certain amount of ideal reconstruction which, because it is ideal, could have never corresponded to reality." This I still believe to be true in the light of our knowledge of the many

irregularities in all inflectional languages, including the Semitic ones. The forced regularity of the ideal reconstruction can hardly be applied to the stages of Proto-Akkadian or Proto-Semitic just prior to the periods of historical attestation. Still, the sequential morphemes as here reconstructed are tangible units and must have had a reality at some early stage in the history of the Semitic languages. I assume this to have been when the Semitic languages passed through an agglutinative stage, in which the regularity of the ideal / sequential reconstruction may have corresponded neatly with the rigidity of the agglutinative structure of the language. See also the end of 3.5.

# 0.4. Application

At the beginning of section 0.2 I stated that the order in which the eight sequential morphemes appear is obligatory and immutable. With the qualifications made in 0.2 in respect to some structural limitations, such as the optional use of enclitics or the lack of the object with the personal pronouns, there are no real exceptions in the order of sequential morphemes.

Of these eight sequential morphemes, namely five suffixal and three prefixal, the only instances which may appear to form exceptions in the sequential order occur in the suffixal morphemes.

After the primary gender differentiation of rank number 1 in Masc. <u>Suati</u> and Fem. <u>Siati</u> was lost and the two pronouns were replaced by <u>Suati</u>, the latter developed a secondary gender distinction in a different rank position in Masc. <u>Sâtu</u> and Fem. <u>Sâti</u>. See 1.5.

Beside the primary marker of the Pl. of rank number 2, such Akkadian Pl. forms as <u>kalb+āt+u+ka</u>, <u>kalb+āt+<del>I</del>+ka</u> (and similarly in

Hebrew) have a secondary marker of the Pl. in the rank number 4 after the case. See 2.5.

The original marker of the object case <u>a</u> of rank number 3, as in <u>sua</u>, was reinforced by a secondary marker <u>i</u>, which appears in the forms <u>suati</u>, <u>suasim</u>, etc. See 3.7.

The primary marker of the Subj. mood  $\underline{u}$  (originally  $\underline{a}$ ) of rank number 3, as in <u>imburu</u> "which he received" was reinforced by a secondary marker  $\underline{i}$  or  $\underline{a}$ , which appears with a consonantal glide  $\underline{n}$  in <u>imburuni</u>, <u>imburuna</u>, or <u>imburušuni</u>. In the latter example <u>ni</u> occupies rank number 5 of the enclitics, and may be extended by the enclitic <u>ma</u>, which in this and similar cases occupies rank number 6. See 3.11.

In the above instances we find a secondary marker which, added to a primary marker, serves the purpose of strengthening the morpheme.

For the possibility that the case markers Dat.  $\underline{is}$  "to" and Loc.  $\underline{un}$  "in" of rank number 3 were originally postpositions attached to the case markers, see 3.8. In the light of the evidence provided there in favor of the separation of the Loc. and Nom. cases on the basis of sequential reconstruction, I feel free to suggest that the two markers actually were distinguished by vocalic quantity. The marker  $+\underline{ah}$  (=<u>9h</u>) denoting direction or location in Hebrew, as in <u>haššāmajmāh</u> "heavenwards," appears in rank number 5, after the mimation of rank number 4 and may represent an original postposition. See 3.8.

In very few instances a combination of two or even three markers may occupy the same rank. Thus the marker  $\underline{is}$  of the Dat. case plus the marker  $\underline{u}_m$  of the Loc. case occupy rank number 3 in  $\underline{gaqqar}+\underline{is}+\underline{u}_m$ "onto the ground." See 3.8. Rank number 4 is occupied by the object, which can be represented by pronominal suffixes or by mimation. In

that rank we find one pronominal suffix, as in <u>addin+sum</u> "I gave to him," or as many as two or three, as in <u>addin+am+kum</u> "I gave to thee," or <u>addin+am+kum+su</u> "I gave him to thee." See 4.2.\*

Not to be confused with the ranking of the sequential morphemes are the markers of the extended stem, such as  $\underline{an}$  in <u>kalb+an+um</u>, for which see 6. STEM AND ROOT.

It may be suggested that the first suffixal sequential morphemes to be created in the Semitic languages were those of gender and number. Next came the morpheme of case / mood, then the pronominal suffixes and mimation (=nunation), originally both probably independent, and finally the enclitics. See 3.6 and 4.3.

At the other end of the development, the first morpheme to suffer loss in the Semitic languages was mimation (=nunation), at times together with the replacement of pronominal suffixes by prepositional phrases (or the like). Next the case system came into disuse and gradually disappeared. Only the gender and number systems have never been exposed to the process of linguistic decay. (There may be some exceptions in the Hamitic languages of which I am unaware.)

From the temporal order in which the individual morphemes were first created and later decayed one may draw the conclusion that the gender and number systems formed a more integral part of the structure of the Semitic languages than the case system and mimation.

One unexpected and rather interesting by-product of the sequential reconstruction, which emerged, so to speak, automatically from the charts, is the binary system of opposites in the morphemes of gender, number, and case / mood. See 3.2. Thus under gender there is only Masc. and Fem. Under number there is Sg. and Pl., the latter being formed by doubling the gender vowel of the Sg.; the Du. is part of

another system. The Masc. structure of the case, originally diptotic, recognizes only the subject case (Nom.) and the object case (Gen./ Acc.), with the latter developing secondarily the separate Gen. and Acc. cases. Two other cases, Dat.  $\underline{is}$  and Loc.  $\underline{um}$ , have again a different structure, probably postpositional in origin. Also mood shows clearly only the Ind. // Subj. opposites, while the several other moods of Semitic languages form part of other systems. It may be interesting to see whether the binary system of opposites, a dominant feature of the older stages of Semitic languages, is attested also in the older stages of other families of languages, for instance in Indo-European.

Chart 3 gives a bird's-eye view of the markers of gender, number. and case / mood, which are discussed in detail in the three following chapters. It serves as a guide to these inflectional morphemes, and --what is more important in the present context--offers the best illustration of the totality of structure which I can provide. Its order, symmetry, and beauty, if one will, are astonishing. The chart shows complete parallelism in the inflectional structure of the substantives, participles / adjectives, and determinative pronouns. Notwithstanding some prehistoric connections in the stem s, the structure of the determinative pronoun is completely different from that of the personal pronouns. These are all facts, not reconstructions. My connection of the suffixal morphemes of the verb and of the 3rd person of the stative with the noun, and those of the 2nd person of the stative with the personal pronoun yields a nice symmetrical picture which needs, however, stronger substantiation than can be offered in this monograph.

If I were to point out one single outstanding feature of se-

			NUMBER					
	Masc.	Fem.	Masc.	Fem.	Sg.	Pl.	Sg.	Pl.
	u	8	u	i	ø	:	ø	n <sup>u/i</sup>
Subst.	kalb+ <u>u</u> m	+atum			kalb+ <u>u</u> m	+ <u>u</u> n		
	kalb+un	+ātum			kalb+ <u>a</u> tum	+atum		
Part.	māhir+um	+ <u>á</u> tum		Π	ahir+ <u>u</u> m	+ <u>u</u> tum		
	mahir+utum	+ <u>ā</u> tum		π	ahir+ztum	+ <u>â</u> tum		
Det. Pron.	š+ <u>u</u>	+ <u>a</u> t			š+u	+ <u>u</u> t		
	s+ <u>u</u> t	+āt			s+ <u>a</u> t	+ <u>ā</u> t		
Pers. Pron.			š+ <u>u</u>	+ <u>i</u>			s+ <u>u</u>	+ <u>nu</u>
(Indep.)			š+ <u>u</u> nu	+ <u>i</u> n <b>?</b>			š+ <u>i</u>	+ <u>nŽ</u>
			etc.				etc.	
(Suff.)			ku+a+	+ <u>i</u> ¢			+š+ua	+ <u>nu</u> a
			+s+ <u>u</u> nu	+ <u>i</u> n‡a			+š+ <u>i</u> ¢	+ <u>ń</u> źa
			etc.				etc.	
Verb	jamhur+M	+ <u>¢</u>		ja	ոիսո+µ	+ <u>ū</u>		
	jamhur+u	+ <u>ā</u>		t ja:	mhur+ <u>k</u>	+ <u>ā</u>		
	tamhur+ <u>m</u>	+		ta	mbur+ <u>x</u>	+ <u>ü</u>		
	tamhur+ <u>u</u>	+ <u>ā</u>		ta	nhur+ <b>i</b>	+ <u>a</u>		
Stat.	mahir+x	+ <u>a</u> (t)	mahirāt+2	m	ahir+ <u>∦</u>	+ <u>ū</u> mahj	(rāt+ <u>å</u>	+ <u>nu</u>
	mahtr+ <u>u</u>	+ <u>ā</u>	mahirat+unu	ព្រ	ahtr+a(t)	-	 (rāt+ <u>i</u>	+nŽ

Chart 3. Sequential Morphemes of Gender, Number,

Nom.	Gen./Acc.		Nom.	Gen./Acc.		Nom.	Gen.	Acc.	
u	a		u	i		u	i	a	
West Semitj	ic diptota			_	Sg.	kalb+ <u>u</u> m	-	-	
		1	albat+um	+ <u>i</u> m		kalbat+um	+ <u>i</u> m	+ <u>a</u> m	
		Pl. m	ähirüt+um	+ <u>i</u> m	Sg.	māhir+um	+ <u>i</u> m	+ <u>a</u> n	
		m	āhirāt+um	+ <u>i</u> m		mähir#t+um	+ <u>i</u> m	+ <u>a</u> m	
		P1.	šūt+ <u>x</u>	+ <u>i</u>	Sg.	š+ <u>u</u>	+ <u>i</u>	+ <u>a</u>	
			sāt+	+ <u>i</u>		šat+1	+ <u>i</u>	+ <u>é</u>	
su+x									
	+ <u>a</u>								
ši+ <u>x</u>	+ <u>a</u>								
etc.	+su+g								
	+su+ <u>e</u> +ši+ <u>e</u>								
	+61+ <u>8</u>								
etc.									
jamhur+x	บ + <u>a</u>								
etc.	-								
-									
mahir+ <u>k</u>	u +a								
etc.	<u></u>								

and Case / Mood.

quential reconstruction, it is its <u>simplicity</u>. While, in this first attempt at a sequential reconstruction of a Semitic language, I could not avoid providing full evidence and arguing <u>in extenso</u> the points both for and against certain interpretations, future presentations can replace wordy arguments with self-explanatory charts. The charts' vertical arrangement provides full information about the morpheme class, and the charts' horizontal arrangement that about the morpheme sequence. What could be simpler than to let the charts speak for themselves? oi.uchicago.edu

# 1. GENDER

# 1.1. Markers of Gender: u // a/i

The rank number 1 after the stem is occupied by markers of gender, masculine and feminine. As shown in detail in <u>Charts 5-13</u>, the markers are distributed as follows:

				Masc.	Fem.
<u>u</u> // <u>a</u> .	Chart 5.	Subst.	Sg.	kalb <u>u</u> m	kalb <u>a</u> tum
			Pl.	kalbū	kalb <u>ā</u> tum
	Chart 6.	Part.	Sg.	mahirum	mahirgtum
			Pl.	mähirütum	māhirātum
	Chart 7.	Pron. Det.	Sg.	šu	satu
			P1.	sutr	šāty
	Chart 12.	Verb 2nd	Sg.	tamhury	i tamhur <u>á</u>
			Pl.	tamhuru	tamhura
		3rd	Sg.	jamhurk	t x jamhurg
			Pl.	jamhuru	jamhur <u>à</u>
	Chart 13.	Stat. 3rd	Sg.	mahir	mahjr <u>a</u> (t)
			Pl.	mahźrū	mah <b>i</b> r <u>a</u>
				a	
<u>u</u> // <u>i</u> .	Charts 8ff.	Pron. Pers.	Sg.	°ant <u>a</u>	°ant <u>i</u> a
			Pl.	°ant <u>u</u> nu	°ant <u>i</u> nž

		Sg.	kuati	k <u>i</u> ati
		Pl.	kunusti	k <u>i</u> nžati
		Sg.	su(ati)	š <u>i</u> (ati)
		_	s <u>u</u> t	- š <u>i</u> t
			suatu	š <u>i</u> at <u>i</u>
			šât <u>u</u>	šât <u>i</u>
		Pl.	šunu(ti)	a š <u>i</u> n‡(ti)
Chart 11.	Pron. Suff.	Sg.	+k <u>k</u> a	+ki <b>j</b> á
			+kujún	+kiam
		Pl.	+kunum((ti)	+k <u>i</u> n‡ati
		Sg.	+šua	+šia, +šža
		Pl.	+sunua(ti)	+š <u>i</u> nža(ti)
Chart 13.	Stat. 2nd	Sg.	a mahirāt <u>a</u>	mahírāt <u>i</u>
		Pl.	mahjirāt <u>u</u> nu	a mahjrāt <u>i</u> nj

It is clear from the above that the reoccurring markers of gender are  $\underline{u}$  in Masc., and  $\underline{a}$  or  $\underline{i}$  in Fem.

Subst., Part., and Det. pronoun exclusively use the markers  $\underline{u}$  and  $\underline{a}$ .

The same  $\underline{u}$  and  $\underline{a}$  class of markers is represented in Arabic by diptota of the type shown in <u>Chart 4</u>.

Masc. <u>'aşfaru Fem. şafrā'u</u> "yellow," Masc. <u>sakrānu</u> Fem. <u>sakrāja</u> "drunk," and Masc. <u>'akbaru Fem. kubrāja</u> "great" show alternation of the stems <u>'aşfar</u> or <u>şafr</u>, <u>sakrān</u> or <u>sakr</u>, and <u>'akbar</u> or <u>kubr</u>, which is irrelevant here.

The sequential analysis of the Arabic forms clearly leads to

	STEM	GEND	ER	NUMBER	CASE	OBJECT	MEANING
	м	lasc.	Fen	•			
Masc.	°aşfar	+u	_	+Ø	+)á		"yellow"
Fem.	şafr		+a	+Ø	+,u		
Masc.	sakr+ān	+u		+Ø	+)4		"drunk"
Fem.	sakr		+a	+Ø	+(j) <sup>#</sup>	-	
Masc.	°akbar	+u		+Ø	+)¢		"great"
Fem.	kubr		+a	+Ø	+(j) <sup>k</sup>		

# Chart 4. Arabic Diptota.

the conclusion that while the marker of the Masc. is  $\underline{u}$  in <u>asfar+u+#+#</u>, the marker of the Fem. is  $\underline{a}$  in <u>safr+a+#+,u</u>, <u>sakr+a+#+,u</u>, where it is followed by semi-consonantal glides <u>o</u> or <u>j</u> which precede the case ending <u>u</u> or <u>#</u>.

The Arabic Fem. class <u>sakrāji</u> is reflected also in other Semitic languages, as in the Hebrew personal name <u>Śaraj</u>, <u>Caštê</u> "one," etc. See Brockelmann, <u>GVG</u> I pp. 412f. The long vowel <u>ā</u> of Arabic <u>safrāju</u>, etc., cannot be interpreted in the light of sequential reconstruction, and must therefore represent a secondary development.

The indication of the semi-consonantal glide  $\frac{1}{2}$  and j, visible in the Arabic writing of safra<sup>2</sup>u and sakraju, is generally omitted in my Akkadian transliterations because of the uncertainties of the cuneiform writing. Did <u>Assur+i+y+u+m</u> and <u>Assur+a+y+u+m</u> (on which see 7.3) yield <u>Assurijum</u> (<u>Assurijjum</u>), <u>Assurajum</u>, or <u>Assuri\_2um</u>, <u>Assura\_2um</u>? However, it can be taken for granted that some kind of semi-consonantal glide is implicit in all cases in which two contiguous vowels

appear in my transliterations. Thus <u>šuati</u>, <u>šiati</u> may be pronounced as <u>šuwati</u>, <u>šijati</u>, as in Arabic <u>huwa</u>, <u>hija</u>; cf. also <u>šuwati</u>, written <u>šumāti</u> = MU\_MEŠ in New Babylonian. Or, they may be pronounced as <u>šu<sup>2</sup>ati</u>, <u>ši<sup>2</sup>ati</u> in line with Hebrew <u>hū<sup>2</sup>á</u>, <u>hi<sup>2</sup>á</u> or Ethiopic <u>wə<sup>2</sup>ətū</u>, <u>jə<sup>2</sup>əti</u>.

For two other consonantal glides, namely <u>n</u> and <u>t</u>, see 2.2 and 3.3, respectively.

# 1.2. Consonant t not a Primary Marker of Feminine

An important characteristic of the  $\underline{u} // \underline{a}$  class of markers is the existence of the consonant  $\underline{t}$  after the vowels  $\underline{a}$ ,  $\underline{\ddot{a}}$  of the Fem., as in <u>kalbatum</u>, <u>mahiratum</u>, <u>sata</u>, and <u>mahira(t)</u> in Sg., and <u>kalbatum</u>, <u>mahiratum</u>, and <u>sata</u> in Pl.

Furthermore, it should be noted that the consonant  $\underline{t}$  appears only between two occurring or reconstructed vowels in all instances listed above. The older stage of the stative <u>mapira</u> in Sg. and <u>mapira</u> in Pl. has no  $\underline{t}$ , which is characteristic of the Sg. <u>mapirat</u> in later development. See 8.2.

The occurrence of <u>t</u> in the Masc. Pl. of Part. <u>mahirutum</u> and the determinative pronoun <u>sut</u> is to be explained as secondarily derived from the respective Fem. <u>mahiratum</u> and <u>sat</u>. Note also the secondarily developed <u>t</u> in Assyrian <u>sut</u> "he," beside <u>sit</u> "she."

Already in my <u>Morphology of Akkadian</u> pp. 18f. the intrusive  $\underline{t}$ was explained not as the original marker of Fem., but as a secondary element introduced to avoid two contiguous vowels. Put more sharply, I interpret  $\underline{t}$  of <u>kalb+a+#+</u> $\underline{u+m}$  as a consonantal glide which was introduced between the vowel  $\underline{a}$  (or  $\underline{\tilde{a}}$ ) of the Fem. and the vowels  $\underline{u}$ ,  $\underline{i}$ , or  $\underline{a}$  of the case at the time when the normal case system was developed

in Semitic languages. For full evidence in favor of the existence of the consonantal glide t see 3.3.

The glide <u>t</u> is replaced by other glides  $(\underline{2}, \underline{j})$  in the <u>u</u> and <u>a</u> class, as exemplified in safra<sup>2</sup>u, <u>sakra<u>j</u>u</u>, discussed above under 1.1.

# 1.3. Lack of t in Feminine

We have noted above the lack of  $\underline{t}$  in the  $\underline{u}$  //  $\underline{a}$  class, as in Arabic Masc. <u>Pasfaru</u> Fem. <u>gafrāpu</u> (l.1), in the 3rd person of the Akkadian stative, as in Sg. Masc. <u>mahirvá</u> Fem. <u>mahira</u>, Pl. Masc. <u>mahirv</u> Fem. <u>mahirā</u> (l.1 and l.2), and of the verb, as in Sg. Masc. <u>jamhurvá</u> Fem. <u>jamhurvá</u>, Pl. Masc. jamhuru Fem. <u>jamhura</u> (l.1).

An over-all characteristic of the whole  $\underline{u} // \underline{i}$  class is the lack of  $\underline{t}$  in the Fem., as in the personal pronoun, Masc.  $\underline{su}$ ,  $\underline{+su}$ Fem.  $\underline{si}$ ,  $\underline{+si}$ ,  $\underline{+sa}$ , and in the 2nd person of the stative.

The Fem. marker <u>i</u>, without <u>t</u>, is characteristic of a number of Arabic substantives, such as <u>kasābi</u> "bitch," <u>halāqi</u> "death," gathered and discussed in Fleisch, <u>Traité</u> I pp. 319-324, and Brockelmann, <u>GVG</u> I p. 414.

# 1.4. General Remarks

The reconstruction here proposed posits the existence of  $\underline{u}$  and  $\underline{a/\underline{i}}$  as markers of gender with the consonant  $\underline{t}$  of the Fem. taken as a secondarily developed glide to avoid the contiguity of two vowels. Let me emphasize that this reconstruction takes account not only of the gender of the noun, but also of the pronoun, verb, and stative. In other words, the description of the gender, as here given, is not limited to certain parts of the grammar, but is based on its total structure.

For the above reconstruction see my <u>Morphology of Akkadian</u> pp. 17-19 and 38-49, as well as the brief remarks in my review of von Soden's grammar of Akkadian in <u>BO</u> XII (1955) pp. 106f.

By contrast, all the past and present grammars of Semitic languages, descriptive and comparative / historical, have emphasized the consonant  $\underline{t}$  as the main marker of the Fem. gender in the noun, taking the vowel  $\underline{a}$  as a secondarily developed anaptyptic, epenthetic "Hilfsvokal." Typical in this respect is Brockelmann, <u>GVG</u> I p. 405: "Das wichtigste, auch dem Äg. (ZDMG 46, 97) eigene Femininzeichen ist  $\underline{t}$ , das vielleicht ein demonstratives Element war." Furthermore, they have limited their description to the Fem. gender, and have avoided completely the description of gender outside of the noun. Only J. Barth, "Die diptotische Flexion," ZDMG XLVI (1892) pp. 684-708, and <u>idem</u>, <u>Pronominalbildung</u>, <u>passim</u> (especially pp. xiii and 14) has stressed the existence of the gender markers  $\underline{u}$  and  $\underline{i}$  and the lack of the consonant  $\underline{t}$  in certain classes of pronouns in contrast to the noun. Unfortunately these fruitful observations have made no impact on the authors of grammars of Semitic languages.

For the relation between the  $\underline{u} // \underline{a/\underline{i}}$  markers of the gender and those of the case, see 3.4. For the relation of the markers of gender and case to the Pers. Pron. I ju and ja, see 8.2.

# 1.5. Secondary Gender and Parallels

As given in <u>Chart 10</u>, the standard forms of the Akkadian Pers. Pron. of the 3rd person (= Dem. Pron.) are Masc. <u>su</u> Fem. <u>si</u> in Nom., and Masc. <u>suati</u> Fem. <u>siati</u> in Gen. / Acc. From the Old Babylonian period onward several changes took place, with the variations

depending on time and area. First, Fem. <u>šiati</u> was replaced by Masc. <u>šuati</u>. Then, the Gen./Acc. form <u>šuati</u> also was used in the Nom. function, as was the fully nominativized form (see on this term 3.12) <u>šuatu</u>, which was used for both genders and for all cases. Ultimately, a secondary gender differentiation developed in the Masc. <u>š(u)atu</u> and Fem. <u>š(i)ati</u> in the Middle Assyrian period. Similar development occurred at Mari in Masc. <u>šâtu</u> and Fem. <u>šâti</u>, and other variants with different degrees of vocalic contraction (e.g., <u>ARMT</u> VI 5:11, 13). A similar case of a secondary gender differentiation is attested in the Ethiopic pronoun Masc. <u>və²ətū</u> Fem. <u>jə²ətī</u>, where <u>wə²ətū</u> is derived from <u>huatu</u>, and <u>jə²ətī</u> from <u>hiati</u>.

For other instances of the development of secondary (double) features cf. secondary number, as in <u>Pišātātum</u> (see 2.6); secondary object case, as in Masc. <u>Suati</u> Fem. <u>Siati</u> (see 3.7), and secondary mood, as in the Subj. <u>ša imhuruni</u> (see 3.11).

A noteworthy characteristic of the secondary features listed above is that in all four cases it is the second morpheme in the binary system of contrastive features that is prone to secondary development, as in the Fem.(not Masc.) gender, the Pl. (not Sg.) number, the object (not subject) case, and the Subj. (not Ind.) mood. For the binary system see above 0.3.

## 1.6. Further Markers of Gender

The gender contrast between Masc. <u>an</u> and Fem. <u>at</u> exists in certain ossified forms in Akkadian and other Semitic languages, as <u>in dan</u>, <u>dat</u> "this" in South Arabic, etc., or in <u>ištên</u>, <u>ištêt</u> (from <u>"aštij+ān</u>, <u>"aštij+at</u>) "one" in Akkadian, etc. See Gelb, "On the Morpheme <u>an</u> in the Amorite Language," <u>Studies Presented</u> to George V. Bobrinskoy (Chicago, 1967) pp. 45-48, with reference to an important article of J. H. Greenberg in <u>JAOS</u> LVIII (1960) pp. 317-321.

No gender markers occur in the so-called "grammatical gender," as in <u>'ummum</u> "mother" or <u>'abnum</u> "stone," and in the 1st person Pers. Pron. Sg. and Pl., in both the independent and suffixal forms, as in <u>'anāku</u> "I," <u>nīnu</u> "we," etc.

A completely different pair of distinctive features of gender, animate and inanimate, is exemplified in the following interrogative and indefinite pronouns:

mannum,	ตรักบต	quis,	quid
man+ma,	min+ma	quis+que,	quid+que
m man+man,	men+meni	quis+quis,	quid+quid
man+mana+ma,	meni+meni+ma	quis+quis+libet,	quid+quid+libet

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									ي بيند و برينيند و	
Sg.	Nom.	Masc.	kalb	+u		+Ø	+)4	+0		kalbum <sup>1</sup>
		Fen.	kalb		+a	+Ø	+tu	+ <b>¤</b>	etc.	kalbatum
	Gen.	Masc.	kalb	+)4		+Ø	+i	+m		kalbim
		Fem.	kalb		+a	+Ø	+ <sub>t</sub> i	+10		kalbatim
	Acc.	Masc.	kalb	+)4		+Ø	+a	+m		kalbam
		Fem.	kalb		<b>+</b> a	+Ø	+ <sub>t</sub> a	<b>+11</b>		kalbatam
21.	Nom.	Masc.	kalb	+u		+:	+)¢	+#		kalbun
		Fem.	kalb		+a	+:	+ <sub>t</sub> u	+00		kalbātum
	Gen.	Masc.	kalb	+)4		+:	+1	+#		kalb <b>ig</b>
		Fem.	kalb		+a	+:	+ <sub>t</sub> i	+m		kalbātim
	Acc.	Masc.	kalb	+)4		+:	+i	+ <b>p</b> í		kalbīmi
		Fem.	kalb		+a	+:	+ <sub>t</sub> i	+0		kalbātim

STEM GENDER NUMBER CASE OBJECT ENCL. ATTESTED Masc. Fem.

 The analysis of GENDER, Substantive applies to Substantive, Absolute (above), as well as to Substantive, Construct State and to Substantive with Pronominal Suffixes (listed in <u>Charts</u> <u>33-35</u>).

Chart 5. GENDER, Substantive.

STEM	GENDER	NUMBER CASE	OBJECT ENCL.	ATTESTED
Ma	sc. Fem.			

Sg.	Nom.		māțir māțir	+u	+a	+Ø +Ø	+)1 + <sub>t</sub> u	+m +m	(+ma) etc,	māhirum <sup>1</sup> māhirøtum
	Gen.	Masc.	māhir	+xí		+Ø	+i	+m		māhirim
		Fem.	māhir		+a	+Ø	+ti	+m		māhir≰tim
	Acc.	Masc.	māhir	+xá		+Ø	+a	+0		māhiram
		Fem.	māhir		+a	+Ø	+ <sub>t</sub> a	+m		māhir <b>stam</b>
Pl.	Nom.	Masc.	māhir	+u		+:	+ <sub>t</sub> u	+111		māhirūtum
		Fem.	māhir		+a	+:	+ <sub>t</sub> u	+03		māhirātum
	Gen.	Masc.	māhir	+u		+:	+ti	+m		māhirūtim
		Fem.	māhir		<del>+a</del>	+:	+ <sub>t</sub> i	+101		mâhirātim
	Acc.	Masc.	mähir	+u		+:	+ti	+m		māhirūtin
		Fem.	māhir		+a.	+:	+ti	+10		mâhirātim

1. The analysis of GENDER, Part. applies to Part./Adj., Absolute (above), as well as to Part./Adj., Construct State and to Part./Adj. with Pronominal Suffixes (listed in <u>Charts 36-38</u>). Chart 6. GENDER, Participle.

			STEM	GENI	DER	NUMBER	CASE	OBJECT	ENCL.	ATTESTED
				Masc.	Fem.		(Ge	en./Subj	j.)	
						<u> </u>				
Sg.	Nom.	Masc.	š	+u		+Ø	+ <b>)</b>	kalbim	(+ma) etc.	šu
		Fem.	š		+a	+Ø	+ <sub>t</sub> u	kalbim	elc.	šaty
	Gen.	Masc.	š	+)¢		+ø	+i	kalbim		ši
		Fem.			+a	+ø	+ti	kalbim		šati
	Acc.	Masc.	š	+)⁄a		+ø	+8	kalbim		Sa
		Fem.		- <b>4</b> , 1	+a	.ب +ø		kalbim		*šata
							U			
<b>P1.</b>	Nom.	Masc.	š	+u		+:	+tu	kalbim		šūty
		Fem.	В		+8	+:	+ <sub>t</sub> u	kalbim		šāty
	Gen.	Masc.	, š	+u		+:	+ <b>,</b> i	kalbim		šūti
		Fem.	š		+a	+:	v	kalbim		*šāti
							-			
	Acc.	Masc	. š	+u		+:	+ti	kalbim	l –	šūt≰
		Fem.	š		+a	+:	+ti	kalbim	1	šātź

1. And older su imhura, younger su imhuru "he who received," etc.

Chart 7. GENDER, Pronoun, Determinative.

STEM GENDER NUMBER CASE OBJECT ENCL. ATTESTED Masc. Fen.

Masc./Fem. Sg. Nom.	('an+)'a+k		 +u	 (+ma) etc.	<sup>a</sup> nāku <sup>1</sup>
Gen./Acc.	i		 +a		iati <sup>2</sup>
Dat.	i		 +a		ìa <b>ši</b> m
Pl. Nom.	('an+)na?	-	 +_u		(°a)nahna/u, <sup>3</sup> (°a)ninu
Gen./Acc.	ni		 +a		niati
Dat.	ni		 +8		niašim

- Nom. <u>Janaku</u> of Pers. Pron. I was replaced by <u>i</u> of Pers. Pron. II in obl. case. The latter pronoun occurs also in the Poss. Pron. <u>jaum</u> "my."
   For secondary +<u>ti</u> and +<u>šim</u> see 3.7.
- 3. The reconstruction of <u>na</u> is questionable. This pronoun appears as (<u>'a)ninu</u> in Akkadian and (<u>'a)nahna/u</u> in other Semitic languages. Pl. suffix +<u>nu</u> was borrowed from <u>'antunu</u>, <u>sunu</u>, etc. Nom. <u>'aninu</u> of Pers. Pron. I was replaced by <u>ni</u> of Pers. Pron. II in obl. case. The latter occurs also in the Poss. Pron. niaum "our."

Chart 8. GENDER, Pronoun, Personal, 1st Person.

	STEM	GENI	DER	NUMBER	CASE	OBJECT	ENCL.	ATTESTED
		Masc.	Fem.			_		
Sg. Nom.	Masc.('an+)t	+u		+Ø	+)¢		(+ma) etc.	ant <sub>a</sub> 1
	Fem. ('an+)t		+i	+Ø	+xí			°anti
Gen./Acc	.Masc. k	+u		+Ø	+a			kuati <sup>2</sup>
	Fem. k		+i	+Ø	+a			kiati
Dat.	Masc. k	+u		+Ø	+a			kuašim
	Fem. k		+i	+Ø	+a			kiašim
Pl. Nom.	Masc.('an+)t	+u		+_u	+)¢			<sup>o</sup> antunu a
	Fem. ('an+)t		+1	+ni	+)4			Pantin
Gen./Acc	.Masc. k	+u		+ u	+#			kunugiti
	Fem. k		+1	+ <sub>n</sub> ž	+a			kinžati
Dat.	Masc. k	+u		+nu	+ <b>#</b>			kunusiim
	Fem. k		+1	+ <sub>n</sub> ž	+a			kin <b>žašim</b>

- <u>U</u> of <u>pantu</u> is reconstructed from the Pl. <u>pantunu</u>. Nom. <u>pantu</u> of the Pers. Pron. I was replaced by <u>ku</u>, etc., of the Pers. Pron. II in obl. case. The latter pronoun occurs also in the Poss. Pron. <u>kuaum</u>, <u>kunuaum</u>, and <u>kinaum</u>.
- 2. For secondary  $+\underline{ti}$  and  $+\underline{sim}$  see 3.7.

Chart 9. GENDER, Pronoun, Personal, 2nd Person.

GENDER NUMBER CASE OBJECT ENCL. ATTESTED

			Masc.	Fem.					
Sg. Nom.	Masc.	š	+u		+ø	+)¢		(+ma)	šul
	Fem.	š		<b>+i</b>	+Ø	+)á		etc.	ši
Gen./Acc	Masc.	š	+u		+Ø	+a			šua(ti) <sup>2</sup>
	Fem.	š		+1	+Ø	+a			šiati
Dat.	Мавс.	š	+u		+Ø	+a.			suasim
	Fem.	š		+1	+Ø	+a			siasim
Pl. Nom.	Masc.	š	+u		+_u 	+) <b>t</b> í	~-		šunu
	Fem.	š		+i	+_12	+)4			a šinž
Gen./Acc	. Мавс.	š	+u		+_u	+aí			sunuiti
	Fem.	š		<b>+i</b>	+ <sub>n</sub> ‡	+a	<b>**</b>		sinžati
Dat	Masc.	š	+u		+_u	+¢			sunusim
	Fem.	š		+i	+ <sub>n</sub> ź	+a			sinfasim

1.	Pers. Pron. <u>su</u> , <u>si</u> , <u>sunu</u> , and <u>sina</u> occur also in the Poss. Pron.
	suaum, šiaum, sunuaum, and * šinaum.
	Ass. Pers. Pron. is <u>sut</u> in Masc., <u>sit</u> in Fem.
	Middle Ass. Dem. Pron. is <u>š(u)atu</u> in Masc., <u>š(i)ati</u> in Fem.
	Mari Dem. Pron. is <u>š</u> âtu in Masc., <u>šâti</u> in Fem. ( <u>ARM</u> VI 5:11, 13)
	Ethiopic Pers. Pron. is <u>wə'ətu</u> in Masc., <u>jə'əti</u> in Fem.

2. For secondary +ti and +sim see 3.7.

Chart 10. GENDER, Pronoun, Personal, 3rd Person.

STEM

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	STEM	GENDER	NUM.	CASE	OBJ.	A	TESTED	
		Masc.Fem.				Gen.	Dat.	Acc.
						kalbu	imhur	imhur
lst Sg.Masc/ Fem.	+i	**		+8.		+i(a)	+i/am	+(n)i
Pl. Masc/ Fem.	+ni			+a		+ni/a	+niašim	+niati
2nd Sg.Masc.	+k	+u	+Ø	+a		+ka	+kum	+ka
Fem.	+k	+i	+Ø	+a		+ki	+kim	+ki
Pl. Masc.	+k	+u	+_u	+a		+kunu	+kunušim	+kuna(ti)
Fem.	+k	+i	+ni	+a		+kina	+kinašim	+kina(ti)
3rd Sg.Masc.	+š	+u	+Ø	+a		+su	+sum	+šu
Fem.	+8	+i	+Ø	+a		-ši/a	+šim	+ši/a
Pl. Masc.	+š	+u	+_u	+a		+šum	+šunušim	+šunu(ti)
Fem.	+š	+i	+ <sub>n</sub> i	. +a		+šina	+šinašim	+šina(ti)

Chart 11. GENDER, Pronoun, Personal, Suffixal.

		"STEM"	GENDEI	R	NUM.	MOOD	OBJ.	ENCL.	ATTESTED
			Masc.	Fem.		(Ind.	)		
Sg.lst	Masc/Fem.	°a+mhur	+u		+Ø	+)ź	+ø	(+ma) etc.	°amhur <b>a</b>
2nd	Masc.	ta+mhur	+u		+ø	+xí	+Ø		tamhurmí
	Fem.	ta+nhur		+a	+Ø	+)á	+Ø		tamhuri
3rd	Masc.	ja+mhur	+u		+Ø	+xí	+Ø		jamhurx
	Fem.	ja+mhur		+8	+Ø	+xí	+Ø		t Mi jamhurz
Pl.lst	Masc/Fem.	na+mhur	+u		+Ø	+xí	+Ø		namhury <sup>2</sup>
2nd	Masc.	ta+mḫur	+u		+:	+)á	+ø		tamhurū <sup>3</sup>
	Fem.	ta+mhur		+a	+:	+)á	+Ø		tamhurā
3rd	Masc.	ja+mhur	+u		+:	+xí	+Ø		jamhurū
	Fem.	ja+mhur		<del>+</del> a	+:	+xí	+Ø		jamhurā

 Older Akkadian tamhur, younger imhur. Because tamhuru is 2nd Masc., tamhuru of 3rd Fem. must be considered as secondary.

2. Akkadian has nimbur, other Semitic languages namburu.

3. Only tamburā, borrowed from the Du. and/or Fem. Pl., occurs in Akkadian; once, exceptionally, also tamburū (in tu-ša-bi-lu-nim in <u>CT</u> VI 34b 11). Other Semitic languages have tamburū.

Chart 12. GENDER, Verb.

					(Ind.	1		
lasc/Fem.	mahir+'ak				+u		(+ma) etc.	mahjirāku
fasc.	mahir+t	+u		+ø	+)1			a mahjirātyi
?em.	mahir+t		+i	+Ø	+)£			mahírāti
lasc.	mahir+j	+u		+ø	+)1	+Ø		mahirní
fem.	mahir+j		+a	+Ø	+)4	+Ø		mah <u>f</u> ra(t)
lasc/Fem.	mahir+na				+)£			u mahirana
lasc.	mahir+t	+u		+_u	+)#ĺ			mahirātunu
Fem.	mahir+t		+i	+ <sub>n</sub> i	+) <b>á</b>			a mahírātin <b>í</b>
lasc.	mahir+j	+u		+:	+)1	+Ø		mahirü
Ten.	mahir+j		+a	+:	+)¢	+Ø		mahirā
	asc. `em. asc./Fem. asc./Fem. asc. `em.	asc. mahir+t 'em. mahir+t 'asc. mahir+j 'em. mahir+j 'asc/Fem. mahir+na 'asc. mahir+t 'em. mahir+t 'em. mahir+t 'asc. mahir+j	Yem. mahir+t iasc. mahir+j +u Yem. mahir+j lasc/Fem. mahir+na tasc. mahir+t +u Yem. mahir+t tasc. mahir+t +u	asc. mahir+t +u 'em. mahir+t +i tasc. mahir+j +u 'em. mahir+j +u tasc./Fem. mahir+na tasc. mahir+t +u 'em. mahir+t +u 'em. mahir+t +i	asc.mahir+t+u+ $\cancel{p}$ Yem.mahir+t+i+ $\cancel{p}$ iasc.mahir+ $\cancel{p}$ +u+ $\cancel{p}$ Yem.mahir+ $\cancel{p}$ +a+ $\cancel{p}$ iasc./Fem.mahir+ $\cancel{p}$ +a+ $\cancel{p}$ iasc.mahir+t+u+ $n^u$ Yem.mahir+t+u+ $n^u$ iasc.mahir+t+u+ $n^u$ Yem.mahir+t+u+ $n^u$	asc.mahir+t+u $+\cancel{p}$ $+\cancel{p}$ 'em.mahir+t+i $+\cancel{p}$ $+\cancel{p}$ 'asc.mahir+d+u $+\cancel{p}$ $+\cancel{p}$ 'em.mahir+d+u $+\cancel{p}$ $+\cancel{p}$ 'asc./Fem.mahir+na'asc.mahir+t+u $+_n$ u'asc.mahir+t+u $+_n$ u'asc.mahir+t+u $+_n$ u'em.mahir+t+u $+_n$ u'asc.mahir+t+u+i'em.mahir+t+u+i	asc.mahir+t+u+	etc. asc. mahir+t +u + $\phi$ + $\chi$ 'em. mahir+t +i + $\phi$ + $\chi$ + $\phi$ 'asc. mahir+ $\chi$ +u + $\phi$ + $\chi$ + $\phi$ 'em. mahir+ $\chi$ +u + $\phi$ + $\chi$ + $\phi$ lasc/Fem. mahir+na + $\chi$ 'asc. mahir+t +u + $_{n}$ u + $\chi$ 'em. mahir+t +u + $_{n}$ u + $\chi$ 'em. mahir+t +u + $_{n}$ u + $\chi$ 'asc. mahir+ $\chi$ +u +: + $\chi$ + $\phi$

"STEM" GENDER NUM. MOOD OBJ. ENCL. ATTESTED

Chart 13. GENDER, Stative.

# 2. NUMBER

# 2.1. Markers of Number: Zero // Length

The rank number 2 after the stem is occupied by markers of number, singular and plural. As shown in detail in <u>Charts 15-23</u>, the markers are distributed as follows:

				Sg.	<u>P1</u> .
₫ // <u>:</u> . 0	Chart 15.	Subst.	Masc.	kalbum	kalbun
			Fem.	kalbatum	kalb <u>ā</u> tum
c	Chart 16.	Part.	Masc.	māhirum	mähirutum
			Fem.	māhirztum	māhirātum
C	Chart 17.	Pron. Det.	Masc.	šu	šūtr
			Fem.	šatzí	šāty
(	Chart 22.	Verb 2nd	Masc.	tamhurg	tamhuru
			Fem.	tamhur	tamhurā
		3rd		jamhury	jamhurū
			Fem.	t jamhura	jamhur <u>a</u>
	Chart 23.	Stat. 3rd	Masc.	mahiré	mahirū
			Fem.	mahira(t)	mah#rā
Ø // "u/i•	Charts 18ff.	Pron. Pers.	Masc.	a °ant <u>x</u>	<sup>o</sup> antu <u>nu</u>
			Fem.	°ant <u>i</u>	a °anti <u>n</u> ž

	<u> </u>	Masc.	kuati	kunuati
		Fem.	k <u>i</u> ati	ki <u>nž</u> ati
		Masc.	šu(ati)	šu <u>nu</u> (ti)
		Fem.	š <u>i</u> (ati)	a ši <u>nž</u> (ti)
Chart 21.	Pron. Suff.	Masc.	+kuna, +kuna	+kunug(ti)
		Fem.	+k <u>i</u> ¢n	+ki <u>nž</u> a(ti)
		Masc.	+šujá	+sunua(ti)
		Fem.	+š <u>i</u> a, +š <u>ž</u> a	+ši <u>nž</u> a(ti)
Chart 23.	Stat. 2nd	Masc.	a mahjirātyi	∎ahjírātu <u>nu</u>
		Fem.	mahjírát <u>i</u>	a mahyrati <u>n</u> ź

The markers of number are  $\emptyset$  in Sg., and  $\underline{:}$ , that is, lengthening of the gender vowel, in Pl. The lengthened gender vowel is  $\underline{u}$  in the Masc., and  $\underline{a}$  or  $\underline{i}$  in the Fem. The lengthening is achieved in two ways: 1) by doubling the vowel quantity, as in Sg. <u>kalbatum</u>, Pl. <u>kalbātum</u>, and 2) by doubling the vowel and introducing a consonantal glide <u>n</u> between the two vowels, as in Sg. <u>su</u> Pl. <u>su</u> in Masc., or Sg. <u>si</u> Pl. <u>si</u>  $\underline{n}$  in Fem.

That the vowel lengthened in the Pl. is that of the gender, and not of the case, can be ascertained clearly from the Fem. (but not the Masc.) of the substantives, participles, determinative pronouns, etc. Thus in Masc. Pl. <u>kalbūm</u> Sg. <u>kalbum</u>, it is impossible to see whether the length appertains to the vowel <u>u</u> of the gender or of the case, while in Fem. Pl. <u>kalbātum</u> Sg. <u>kalbatum</u>, it is clear that the length goes with the vowel <u>a</u> of the gender, and not with the vowel <u>u</u> of the case.

#### 2. NUMBER

Substantives, participles, determinative pronouns, and verbs exclusively have the markers  $\not Q / / \underline{:}$  (= doubling of the vowel quantity).

Personal pronouns, both independent and suffixal, exclusively use the markers  $\underline{\emptyset} // \frac{1}{n^{\underline{u}}}$  in Masc. and  $\underline{\emptyset} // \frac{1}{n^{\underline{i}}}$  in Fem.

An alternation of markers  $\underline{\emptyset}$  // : and of  $\underline{\emptyset}$  //  $\underline{\underline{n}}\underline{\underline{u}}/\underline{\underline{i}}$  appears in the stative.

# 2.2. Consonantal Glide n and Parallels

An important characteristic of the Pl. of personal pronouns, both independent and suffixal, as well as of the 2nd person of the stative, is the existence of the consonant  $\underline{n}$ , as in  $\underline{\breve{s}+u+n+u}$  in Masc. and  $\underline{\breve{s}+i+n+2}$  in Fem. Already in my <u>Morphology of Akkadian</u> pp. 41 and 61 the intrusive  $\underline{n}$  was explained as a consonantal glide introduced in order to avoid two contiguous vowels.

In addition, the following evidence can be cited in favor of the existence of the consonantal glide <u>n</u>:

a) The standard Akkadian form <u>iddinūnim</u> "they gave to me" has to be interpreted as <u>iddinū+n+im</u>, wherein +<u>im</u> is the posited, although very rare, form of the standard Dat. suffix +<u>am</u>. For +<u>im</u> cf., e.g., <u>iddinim</u> "he gave to me" (<u>ARMT</u> II 96:7), beside the standard <u>iddinam</u> "he gave to me."

b) The unique form <u>sa ta-qa-bi-ni-im</u> = <u>sa taqabbînim</u> "which thou (Fem.) sayest to me" (<u>Sumer XIII 99:17</u>) clearly has the original glide <u>n</u>, which is elided in the standard Akkadian <u>taqabb<sup>3</sup>im</u> or <u>taqabbîm</u>.

c) The standard Akkadian <u>imhurni</u> "he received me" is to be explained as the old Ind. imhuru, plus the glide <u>n</u>, plus the Acc.

suffix +<u>i</u>, the latter occurring in the corresponding Old Assyrian <u>imburi</u> "he received me." The pronominal suffix +<u>ni</u> appears also in other Semitic languages. The Arabs called this secondary <u>n nūnu</u> <u>"al-cimādi</u> "the supporting <u>n" or nūnu "al-wiqājati</u> "the protecting <u>n." See De Lacy O'Leary, Comparative Grammar of the Semitic Languages</u> (London, 1923) p. 150. Brockelmann, <u>GVG</u> I pp. 52b and 307b, defines this <u>n</u> as originating "zur Vermeidung des Hiatus" between the vowels.

d) The Assyrian <u>sa</u> <u>impuruni</u> "which he received" (and other u parallel forms) is to be interpreted as the original Subj. <u>impura</u>, plus the glide <u>n</u>, plus the secondary Subj. in +<u>i</u>. The occurrence of <u>n</u> after a consonant in such forms of the Subj. as <u>impuranni</u>, from <u>impuran+ni</u>, is no evidence against the interpretation of <u>n</u> as a consonantal glide, because in the course of time <u>ni</u> became an enclitic which could and does appear in rank number 5. See 1.5 for the secondary Subj., and 3.11 for the enclitic function of <u>ni</u>.

e) The Amorite personal name  $\frac{Ajja+abi}{Ajja+abi}$  "where is my father?" appears also with the glide <u>n</u> in the form  $\frac{Ajjan+abi}{Ajjan+abi}$ . The name <u>Bunu+tahtun+aila</u> contains the word <u>tahtun</u> "below," with the glide <u>n</u> added to <u>tahtu</u>, known in other Semitic languages. See Gelb, <u>La</u> <u>lingua degli Amoriti</u> pp. 163f.

f) In a number of cases of gentilic formations in Hebrew (as in <u>Šiloni</u> "man of <u>Šilo(h)</u>," <u>Giloni</u> "man of <u>Gilo(h)</u>") and Arabic (<u>San ʿānijjun</u> "man of <u>San ʿāʾu</u>"), the intrusive <u>n</u> was plausibly explained (against other scholars) by Barth, <u>Nominalbildung</u> pp. 363f., as due to the hiatus. Cf. also Brockelmann, <u>GVG</u> I p. 52b. Also post-biblical Hebrew has <u>Haifani</u> "man of <u>Haifa</u>."

#### 2. NUMBER

g) I leave open the question whether <u>n</u> or <u>nn</u> in Hebrew <u>kāmoni</u> "like I," <u>codēnū</u> and <u>codennū</u> "still he," <u>mimmenni</u> "from me," etc., can be explained as secondary intrusions of <u>n</u>.

h) Baghdad Arabic has <u>n</u> as a glide in <u>abunu</u> (for <u>abuhu</u>)
 "his father." For this and more examples in other late Arabic
 dialects, see Brockelmann, <u>GVG</u> I p. 52c.

 Consonantal glide <u>n</u> appears in the Anatolian personal names <u>Išpunahšu</u>, compared with <u>Išputahšu</u>, <u>Išpua</u>, etc. For a discussion of these names, as well as of other consonantal glides, such as t in Išputahšu above, see 3.3.

Instead of the glide <u>n</u> of Akkadian and Aramaic Masc. and Fem. Pl. of the Pers. Pron., some West Semitic languages have <u>m</u> in the Masc. and <u>n</u> in the Fem., as in Hebrew <u>Patten</u>, <u>Patten</u>, or Arabic <u>Pantumu</u>, <u>Pantunna</u>. The origin of this <u>m</u> raises several problems which must be discussed here.

One way of explaining the  $\underline{m}$  //  $\underline{n}$  differentiation is to consider <u>m</u> as part of the Masc. marker, and <u>n</u> as part of the Fem. marker. I reject this interpretation unhesitatingly because I find no support for it in the gender structure of any Semitic language, and consequently of Proto-Semitic. See the discussion under 0.3.

The other possibility to consider is that the consonant <u>m</u> of <u>cantumu</u> (or <u>humu</u>) goes back to <u>ma</u> of the <u>mimation</u>. The reconstructed Pl. Masc. <u>cantuma</u>, based on <u>cant+u+:+x+ma</u> could, theoretically, first lead to <u>cantumu</u>, next to <u>cantumu</u>, and then, with the loss of the length, to <u>cantumu</u>. This possibility must be rejected for several reasons. First, mimation (or nunation) is impossible in the personal pronouns, because the latter cannot take an object. See 4.3. Secondly, since the Sg. Nom. <u>su</u> has the Gen./Acc. <u>sua</u>, the reconstructed

Pl. Gen./Acc.  $\underline{s}/h+u+: +\underline{p}\underline{a}+\underline{a}$  would have the Gen./Acc. marker  $\underline{a}$  in the wrong position, after mimation. That this sequence is wrong is shown clearly, e.g., by the Arabic Du. form <u>huma</u>, reconstructed as  $\underline{h+u+a:+\underline{a}}$  (parallel to the Du. of the noun in <u>kalb+a+a:+\underline{a}:+\underline{a}+\underline{a}:+\underline{a}</u>), where  $\underline{a:}$ , the marker of the Du., has the position of number, which regularly precedes the markers of case.

From the transliteration of  $\underline{h+u+a:+\mu}$ , given just above, it is evident that I take <u>m</u> to be a consonantal glide, parallel to <u>n</u> in  $\underline{\check{s}+u+u+\mu}$  and to <u>t</u> in <u>kalb+a+ta:+\mu+n</u> or <u>kalb+a+\mu+tu+m</u>. While the evidence in favor of the consonantal glides <u>n</u> and <u>t</u> in Semitic languages is very good (see above and 3.3), that in favor of the glide <u>m</u> is not.<sup>\*</sup> Since the phonetic change of <u>m</u> > <u>n</u> is amply documented (see 4.3), while that of <u>n</u> > <u>m</u> is not, I hesitate to interpret <u>m</u> of <u>cantumu</u> as derived from <u>n</u> of <u>cantunu</u>. Still, I do not see any other solution.

I would explain the differentiation marked by  $\underline{m} // \underline{n}$  in Masc. <u>Santunu</u> Fem. <u>Santina</u> on a dialectal basis, parallel to that marked by  $\underline{h} // \underline{s}$  in Masc. <u>he</u> "he" Fem. <u>se</u> "she," for which see 0.3. I would posit first <u>Santumu</u>, <u>Santima</u> and <u>hu</u>, <u>hi</u> in one dialect (or language), and <u>Santumu</u>, <u>Santima</u> and <u>su</u>, <u>si</u> in another. Next, we may assume the existence of <u>Santumu</u>, <u>Santima</u> and <u>hu</u>, <u>si</u>, resulting from the influence of one dialect upon the other. Once the gender differentiation was achieved by means of two consonants, <u>m</u> // <u>n</u> and <u>h</u> // <u>s</u>, the road was open to give up the original gender differentiation by means of two vowels <u>u</u> // <u>i</u>, resulting in <u>Santum(u)</u>, <u>Santum(u)</u> or <u>hu</u>, <u>su</u> (actually attested <u>he</u>, <u>se</u>).

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#### 2.3. Dissimilation

In all the cases of the Fem. Pl. +<u>ni</u> the vowel <u>i</u> appears dissimilated to <u>a</u>, as in <u>antini</u> > <u>antina</u>, <u>mahiratini</u> > <u>mahiratina</u>, <u>sini</u> > <u>sina</u>, +<u>sini</u> > +<u>sina</u>, etc. For similar cases of vocalic dissimilation in Semitic languages, cf. Arabic Du. <u>qaşşabani</u>, <u>qaşşabaini</u> (from +<u>na</u>), Pl. <u>ihwanun</u>, <u>cibdanun</u> (Sg. <u>ahun</u>, <u>cabdun</u>), cited in Fleisch, <u>Traité</u> I pp. 155f., and Brockelmann, <u>GVG</u> I p. 253. See also below under 4.3.

Von Soden, <u>GAG</u> p. 42, cites two cases of Fem. Pl. <u>sini</u> (for <u>šina</u>) in the New Babylonian period; I know of six more cases of <u>sini</u>, but not one of <u>sina</u>, from the same late period. In addition, L. Oppenheim, <u>Orientalia</u> n.s. IX (1940) p. 222, pointed out the existence of Fem. Pl. <u>iššini</u> in <u>TCL</u> XIII 181:14, a late Babylonian text. One hesitates to take these spellings seriously, coming as they do from a period when short final vowels were elided. Still, the possibility that the form <u>šini</u> was borrowed in late Akkadian from an obscure dialect which had preserved the posited Proto-Semitic form <u>šini</u> cannot be completely disregarded.

## 2.4. General Remarks

In <u>Morphology of Akkadian</u> p. 14 and in my review of von Soden's grammar of Akkadian in <u>BO</u> XII (1955) p. 107b, I credited A. Poebel for being the first scholar to express the opinion that the Pl. is formed by lengthening the gender vowel of the Sg. This is not quite correct. In rereading the typewritten notes of Poebel's course on the comparative grammar of Semitic languages given in 1940 at the University of Chicago, I find that Poebel took <u>-at</u> as the marker of Fem., <u>u</u>, <u>i</u>, <u>a</u> as markers of case, and believed that the Pl. was formed by lengthen-

ing these (case) vowels in the external Pl., or by lengthening any vowel in the "broken" Pl. of substantives. Furthermore, I have noted recently that Brockelmann, <u>GVG</u> I p. 441, refers briefly to a "lautsymbolische Dehnung" in the Fem. Pl. +āt from +at.

In the past few years a number of scholars have written on the formation of the Pl. in the noun: S. Moscati, "Il plurale esterno maschile nelle lingue semitiche," <u>RSO</u> XXIX (1954) pp. 28-52, esp. p. 50 incl.fn. 2; Moscati, <u>ICG</u> (1964) pp. 87 and 91; Diakonoff, <u>SHL</u> (1965) p. 65; and Reiner, <u>LAA</u> (1965) p. 60. In all cases the authors note with approval the principle of forming the Pl. by lengthening the vowel of the case endings, but limit their observations to the noun. The abrupt and disapproving note of W. Vycichl on the Pl. ending of the Fem. in <u>RSO</u> XXXIII (1958) pp. 177f. is based on a confusion of markers of case with those of gender.

What I consider to be the main contribution of my <u>Morphology of</u> <u>Akkadian</u> (1952) to the question of the formation of the Pl. is 1) the discovery that it is the gender vowel, not the case vowel, that is lengthened in the Pl., and 2) the extension of this principle from the noun to the pronoun, verb, and stative. See <u>op</u>. <u>cit</u>. pp. 13-16, esp. p. 14, and the charts for the Pers. Pron. I and II and for the verb <u>op</u>. <u>cit</u>. pp. 38f. and 44ff.

### 2.5. Other Markers of Plural

Not noted above are several other ways of indicating the number distinctions between Sg. and Pl.

Pl. is often indicated by a partial or full reduplication, as in

#### 2. NUMBER

Sg. <u>ahum Pl. ahhū</u> "brother," Sg. <u>alaktum Pl. alkakātum</u> "road," Hebrew Pl. <u>meimei</u> "waters," Syriac Pl. <u>daqdaqē</u> "common people" ( = "little ones"). Pl. also can be indicated by a prolonged stem, as in Arabic Sg. <u>abun Pl. abahātun or abā'un</u>, Syriac <u>abāhātā</u> or <u>abāhē</u> "father," Arabic Sg. <u>sanatun Pl. sanahātun</u> or <u>sanawātun</u> "year," Sg. <u>ilum</u>, Hebrew Pl. <u>\*ilāhīm</u>, Phoenician <u>\*ilānīm</u> "god."

Characteristic of the later Semitic languages is the so-called internal (broken) Pl., derived from abstract nouns in Sg., as in Arabic Sg. bahrun Pl. bihārun, bihūrun, 'abhārun, 'abhurun "sea."

The distinction between Sg. and Pl. is also indicated by different elements, as in the Pers. Pron. of the 1st person, <u>anaku</u> "I" and <u>anahnu</u> "we," amhurn "I received" and namhurn "we received."

### 2.6. Secondary Plural

Secondary or double Pl. occurs occasionally in Akkadian Sg. <u>Jišatum</u> (also <u>Jišum</u>) Pl. <u>Jišātātum</u> (beside <u>išātum</u>) "fire," Hebrew Sg. <u>qešet</u> (stem <u>qaws</u>) Pl. <u>qəšātōt</u> "bow." Many examples of "le pluriel d'un pluriel" culled from the Arabic language are cited in Fleisch, <u>Traité</u> pp. 496ff., such as Sg. <u>baladun</u>"lieu habité, localité," internal Pl. <u>bilādun</u> "lieux habités, localités," then "pays," which, understood as a Sg., received the form of an internal Pl. in <u>buldānun</u>. For "plurals of plurals" in Ethiopic, cf. many examples in A. Dillmann, <u>Ethiopic Grammar</u> (2nd ed., London, 1907) § 141, such as <u>Jamsāl</u> "image" and <u>Jamsālāt</u> "images."

Instead of the expected <u>kalb+āt+u+ka</u> in Nom. and <u>kalb+āt+i+ka</u> in Gen./Acc., we find in standard Akkadian the forms <u>kalb+āt+ū+ka</u> and <u>kalb+āt+ī+ka</u> in the Pl. of Fem. nouns before pronominal suffixes.

#### 2.7. Dual

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The long vowels  $\underline{\tilde{u}}$  and  $\underline{\tilde{I}}$  of the Fem. were explained by von Soden, <u>GAG</u> § 65k, as derived from the Masc.  $\underline{\tilde{u}}$  and  $\underline{\tilde{I}}$ , as in <u>kalbū</u>, <u>kalbī</u>. The Gen./Acc. case has  $\underline{\tilde{e}}$  in the Assyrian dialect, instead of  $\underline{\tilde{I}}$  in the standard (Babylonian) dialect. The same long vowels appear also in Masc. Pl. ending in  $+\underline{\tilde{u}tu} +, +\underline{\tilde{u}tI} +$  (Part.) and  $+\underline{\tilde{a}nu} +, +\underline{\tilde{a}nI} +.$ 

Traditionally, the long vowel  $\underline{e}$  in Hebrew Pl. of nouns before pronominal suffixes, as in Masc. <u>sûsêka</u> or Fem. <u>sûsôtêka</u>, is explained as derived from the oblique case of the Du. <u>ai</u>. See, e.g., A. Ungnad, <u>Hebräische Grammatik</u> (Tübingen, 1912) pp. 62f.

It is obvious that the long vowels in the Akkadian and Hebrew instances just cited must be interpreted as being of the same origin. One possible interpretation is to take the long  $\underline{1}/\underline{e}$  of Akkadian <u>kalbātī/ēka</u> and Hebrew <u>sūsēka</u>, <u>sūsōtēka</u> as derived from the Du. <u>ai</u>; the long  $\underline{\tilde{u}}$  of the Akkadian <u>kalbātūka</u> would have then originated by analogy with the oblique case. The other interpretation, which I favor, is simply to regard the long vowels as secondary Pl. On the general question of similar secondary (double) features in the gender and case see 1.5.

# 2.7. Dual

Still to be considered is another number distinction, namely the dual. In the early periods of Akkadian, especially Old Akkadian, the dual is used regularly with the noun. Its reconstruction is shown in <u>Chart 14</u>.

The Du. of the noun appears without case endings in the Constr. St., as in <u>mer'a</u> PN "two sons of PN" or <u>mahirata kaspim</u> "two recipients of silver," and before pronominal suffixes, as <u>isda+sa</u> "her two foundations" or 'ahata+ki "thy two sisters."

		stem	GENDER	NUMBER	CASE	OBJECT	ENCL.	ATTESTED
Мавс.	Nom.	kalb	+)£	+8:	+)ú	+n	(+ma) etc.	kalban
	Gen.	kalb	+)ú	+a:	+1	+n		kalbên
	Acc.	kalb	+)4	+a <i>‡</i>	<b>+i</b>	+n		kalbên
Fem.	Nom.	kalb	+a	+ <sub>t</sub> a:	+)4	+n		kalbatan
	Gen.	kalb	+a	+ <sub>t</sub> a/	+i	+n		kalbatên
	Acc.	kalb	+a	+ta/	+i	+n		kalbatên

Chart 14. Dual.

The Du. frequently occurs in the verb in the form of <u>imhura</u> for the 3rd person, both Masc. and Fem. The 2nd person of the Du. in the form of tamhura may be posited, but is nowhere attested.

The 3rd person Masc. of the stative is attested as <u>marşā</u> "they are sick," the Fem. as <u>salimstā</u> "they are well." By the Old Babylonian period the Fem. form <u>salimstā</u> is replaced by the Masc. <u>salimā</u>.

Nothing of importance concerning the structure of the Du. can be derived from the Akkadian demonstrative pronoun, Masc. Nom. <u>"annijān</u>, Gen./Acc. <u>annîtên</u>, Fem. Gen./Acc. <u>"annijatên</u> > <u>annîtên</u>, the Constr. St. of the determinative pronoun <u>šā</u>, and the Constr. St. of the numeral "two," Masc. <u>šinā</u> Fem. <u>šižtē</u>. Arabic and some other Semitic languages show the Du. also in the personal pronouns <u>"antumā</u> "you," <u>humā</u> "they," and in the parallel suffixal pronouns +<u>tumā</u> "you" and +<u>humā</u> "they."

The following observations can be made concerning the entries in <u>Chart 14</u>: oi.uchicago.edu

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The markers of the Du. number are <u>a</u>: in Masc. and <u>t</u>a:, with the consonantal glide <u>t</u>, in Fem. For the latter see 3.3.

The gender marker of the Fem. is clearly <u>a</u>, as in <u>kalbatān</u> kalbatēn.

The case marker of Gen./Acc. is clearly  $\underline{i}$  in <u>kalben</u> from <u>kalbain</u>, and in <u>kalbatên</u> from <u>kalbatain</u>, where <u>ai</u> yields  $\underline{\hat{e}}$  or  $\underline{\hat{1}}$ , depending on the dialect.

Not clear is the situation with the first <u>u</u>, the gender marker of the Masc., and the second <u>u</u>, the case marker of the Nom. As against the standard instances of <u>kalbān</u> and <u>kalbatān</u>, we also have <u>kilallūn</u> "both" in Nom., especially at Mari, which shows the preservation of either the gender or case vowel <u>u</u>. As against the standard <u>kalbēn</u>, there is one occurrence of <u>a-na ma-al-ku-i-in</u> "for the two princes" (<u>RA XXXV p. 48 No. 23</u>, early Mari), which shows the Masc. gender vowel <u>u</u> preserved in <u>malkuīn</u>. The Masc. gender vowel <u>u</u> is also preserved in <u>širkuā</u>, a predicate form of <u>širkuān</u>, in <u>ši-ir-ku-a</u> <u>i-da-šu</u> /<u>širkuā</u> <u>idāšu</u>/ "his two arms are two strings" in a text of the Old Akkadian period (<u>MAD</u> II<sup>2</sup> p. 129 and <u>MAD</u> III p. 285, a new interpretation).

			-0				
Masc. Nom.	Sg. kalb	+u	+Ø	+)á	+0	(+ma) etc.	kalbum <sup>1</sup>
	Pl. kalb	+u	+:	+já	+ <b>p</b> 1		kalbur
Gen.	Sg. kalb	+)á	+Ø	+i	+0		kalbim
	Pl. kalb	+)4	+:	<b>+i</b>	+pń		kalbin
Acc.	Sg. kalb	+12	+Ø	+ <b>a</b>	+m		kalbam
	Pl. kalb	+121	+:	+i	+100		kalbin
Fem. Nom.	Sg. kalb	+a	+Ø	+ <sub>t</sub> u	+m		kalbatum
	Pl. kalb	+a	+:	+ <sub>t</sub> u	+0		kalbātum
Gen.	Sg. kalb	+a	+Ø	+ti	+02		kalbatim
	Pl. kalb	+a	+:	+ti	+0		kalbātim
Acc.	Sg. kalb	+a	+Ø	+ <sub>t</sub> a	+133		kalbatam
	Pl. kalb	+a	+:	+ <sub>t</sub> i	+m		kalbātim

STEM	GENDER	NUMBER	CASE	OBJECT	ENCL.	ATTESTED
		Sg. Pl.				

 The analysis of NUMBER, Substantive applies to Substantive, Absolute (above), as well as to Substantive, Construct State, and to Substantive with Pronominal Suffixes (listed in <u>Charts 33-35</u>).

Chart 15. NUMBER, Substantive.

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		<b>SILL</b> .		NOP		CHOR	ODOBOI	ERIODIS	A. 1
				Sg.	P1.				
Masc. Nom.	Sg.	māģir	+u	+Ø		+)¢	+m	(+ma)	<b>v</b>
	P1.	māhir	+u		+:	+ <sub>t</sub> u	+#	etc.	māhirūtum
Gen.	Sg.	māhir	+#	+Ø		<b>+i</b>	+¤		māhirim
	P1.	māhir	+u		+:	+ <sub>t</sub> i	+m		māhirūtim
Acc.	Sg.	māhir	+ <b>y</b> í	+Ø		+a	+111		māhiram
	P1.	māhir	+u		+:	+ti	+12		mähirütim
Fem. Nom.	Sg.	māhir	+a	+Ø		+ <sub>t</sub> u	+22		māhirstum
	P1.	. māhir	+8.		+:	+ <sub>t</sub> u	十四		māģirātum
Gen.	Sg.	. māģir	+8	+Ø		+ <sub>t</sub> i	+10		māhirstim
	P1.	. māģir	+8		+:	+ti	十四		māhirātim
Acc.	Sg	. māhir	+8	+Ø		$t^{+}t^{a}$	<b>+m</b>		māhirstam
	P1.	. māhir	+a		+:	+ti	+23		māģirātim

STEM GENDER NUMBER CASE OBJECT ENCL. ATTESTED

The analysis of NUMBER, Participle applies equally to Part./Adj., 1. Absolute (above) as well as to Part./Adj., Construct State and to Part./Adj. with Pronominal Suffixes (listed in Charts 36-38).

Chart 16. NUMBER, Participle.

		STEM	GENDER	NU	MBER	CASE	OBJECT ENCL.	ATTESTED
				Sg.	Pl.	(G	en./Subj.)	
							1/ 、	~
Masc. Nom.	Sg.	S	+u	÷φ		+)¢	kalbim <sup>1</sup> (+ma) etc.	šu
	Pl.	š	+u		+;	+t <sup>u</sup>	kalbim	šūty
Gen.	Sg.	š	+)1	+Ø		+i	kalbim	ši
	P1.	Š	+u		+:	+ti	kalbim	šūti
Acc.	Sg.	š	+)4	+Ø		+a	kalbim	ša
	P1.	š	+u		+:	+ti	kalbim	šūt <b></b> Ź
Fem. Nom.	Sg.	š	+a	+Ø		+tu	kalbim	šaty
	P1.	š	+8		+:	+ <sub>t</sub> u	kalbim	šātu
Gen.	Sg.	š	+a	+Ø		+ <sub>t</sub> i	kalbim	šati
	P1.	š	+8		+:	+ <sub>t</sub> i	kalbim	*šāti
Acc.	Sg.	š	+a	+Ø		+ <sub>t</sub> a	kalbim	*šata
	P1.	. 5	+a		+:	+ti	kalbim	šāt⊉

1. And older <u>su</u> impura, later <u>sa</u> impuru "he who received," etc.

Chart 17. NUMBER, Pronoun, Determinative.

	STEM	GEN.	NUMBER	CASE	OBJ.	ATTESTED
			Sg. Pl.			
					<del></del>	
Masc/Fem.Nom.Sg.	('an+)'a+k			+u		<sup>2</sup> anāku <sup>1</sup>
Pl.	( 'an+)na?			+ u		('a)nahna/u, <sup>2</sup> ('a)ninu
Gen./Acc. Sg.	i	~-		+a		iati <sup>3</sup>
Pl.	ni			+a		niati
Dat. Sg.	i			+a		iašim
Pl.	ni			+8		niašim

- Nom. <u>anāku</u> of Pers. Pron. I was replaced by <u>i</u> of Pers. Pron. II in obl. case. The latter pronoun occurs also in the Poss. Pron. <u>iaum</u> "my."
- 2. The reconstruction of <u>na</u> is questionable. This pronoun appears as (<u>a)ninu</u> in Akkadian and <u>(a)nahna/u</u> in other Semitic languages. Pl. suffix +<u>nu</u> was borrowed from <u>antunu</u>, <u>sunu</u>, etc. Nom. <u>aninu</u> of Pers. Pron. I was replaced by <u>ni</u> of Pers. Pron. II in obl. case. The latter occurs also in the Poss. Pron. niaum "our."
- 3. For secondary +ti and +sim see 3.7.

Chart 18. NUMBER, Pronoun, Personal, 1st Person.

\_\_\_\_\_

Masc. Nom.	Sg.	('an+)t	+u	+ø		+)aí	 (+ma) etc.	*
	P1.	(°an+)t	+u		+_u	+xí	 elc.	°antunu
Gen./Acc.	Sg.	k	+u	+Ø		+a		kuati <sup>2</sup>
	P1.	k	+u		+ <sub>n</sub> u	+#		kunuáti
Dat,	sg.	k	+u	+Ø		+a		kuašim
	P1.	k	+u		+nu	+¢		kunu <b>d</b> šim
Fem. Nom.	Sg,	(°an+)t	+i					°anti
	P1.	(°an+)t	+i		a + <sub>n</sub> ≭	+)aí		a °antin <b></b>
Gen./Acc.	Sg.	k	+i	+Ø		+8		kiati
	P1.	k	+i		+ <sub>n</sub> ≭	+a		kin <b>ž</b> ati
Dat.	Sg.	k	+i	+ø		+a		kiašim
	P1.	k	+i		+ <sub>n</sub> ≵	+a		kinžašim

- <u>U of <sup>3</sup>antu</u> is reconstructed from the Pl. <u><sup>3</sup>antunu</u>. Nom.
   <u><sup>3</sup>antu</u> of the Pers. Pron. I was replaced by <u>ku</u>, etc., of Pers.
   Pron. II in obl. case. The latter occurs in the Poss. Pron.
   <u>kuaum</u>, <u>\*kiaum</u>, <u>kunuaum</u>, and <u>\*kinaum</u>.
- 2. For secondary +ti and +sim see 3.7.

Chart 19. NUMBER, Pronoun, Personal, 2nd Person.

		STEM	GENDER	NUM	IBER	CASE	OBJECT	ENCL.	ATTESTED
				Sg.	Pl.				
Masc. Nom.	Sg.	š	+u	+Ø		+¥		(+ma)	šu <sup>1</sup>
	Pl.	ŝ	+u		+ <sub>n</sub> u	+)¢		etc.	šunu
Gen./Acc.	Sg.	š	+u	+ø		+a			šua(ti) <sup>2</sup>
	P1.	š	+u		+ u	+ <b>¢</b>			sunusti
Dat,			+u	+ø		+a.			šuašim
	P1.	8	+u		+ u	+ø.			šunuašim
Fem. Nom.	Sg.	š	+i	+ǿ	-	+)á			ši
	P1.	š	+i		+_n≠	+x			a šin <b>ž</b>
Gen./Acc.	Sg.	š	+i	+Ø		+a			šiati
	P1.	Š	+i		+ <sub>n</sub> ź	+a			sin <b>ž</b> ati
Dat.	Sg.	š	<b>+i</b>	+Ø		+a			šiašim
	P1.	* 8	+1		+ <sub>n</sub> ≵	+a			sin <b>ž</b> ašim

Pers. Pron. su, ši, šunu, and šina occur also in the Poss. Pron. 1. suaum, siaum, sunuaum, and \*sinaum.

For secondary +ti and +sim, see 3.7. 2.

Chart 20. NUMBER, Pronoun, Personal, 3rd Person.

	STEM	GEN.	NUMB	ER	CASE	OBJ.		ATTESTED	
			Sg. 1	P1.			Gen.	Dat.	Acc.
							kalbu	imhur	imhur
		<del></del>							
lst Masc/ Sg. Fem.	+i				+a		+i(a)	+i/am	+(n)i
P1.	+ni				+a		+ni/a	+niašim	+niati
2nd Masc. Sg.	+k	+u	+Ø		+a		+ka	+kum	+ka
P1.	+k	+u		+ u n	1 +a		+kunu	+kunušim	+kunu(ti)
Fem. Sg.	+k	+i	+Ø		+a		+ki	+kim	+ki
Pl.	+k	+i		tn+	+a		+kina	+kinašim	+kina(ti)
3rd Masc. Sg.	+š	+u	+Ø		+a		+su	+sum	+su
Pl.	+8	+u		+_u n	1 +a		+sunu	+sunusim	+šunu(ti)
Fem. Sg.	+s	+i	+Ø		+a		+ši/a	+šim	+ši/a
P1.	+8	+i		+nj	+a		-šina	+šinašim	+šina)ti)

Chart 21. NUMBER, Pronoun, Personal, Suffixal.

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"STEM" GEN. NUMBER MOOD OBJ. ENCL. ATTESTED

Sg. Pl. (Ind.)

lst	Masc/Fem.	Sg.	°a+mhur	+u	+Ø		+)⁄1	+Ø	(+ma) etc.	°amhur <b>y</b> í
		P1.	na+mhur	+u	+Ø		+)á	+Ø		namhurl
2nd	Masc.	Sg.	ta+mhur	+u	+Ø		+xí	+ø		tamhurx
		P1.	ta+mhur	+u		+:	+)⁄1	+Ø		tamhuru <sup>2</sup>
	Fem.	Sg.	ta+mhur	+a	+Ø		+)aí	+Ø		tamhuri
		P1.	ta+mhur	+a		+:	+) <b>1</b>	+Ø		tamhura
3rd	Masc.	Sg.	ja+mhur	+u	+Ø		+u	+ø		jamhurm
		Pl.	ja+mhur	+u		+:	+xí	+Ø		jamhurū
	Fen.	Sg.	ja+mhur	+a	+Ø		+)1	+Ø		t ví. jamhurg <sup>3</sup>
		Pl.	ja+mhur	+a		+:	+xí	+Ø		jamhurā

1. Akkadian has <u>nimhur</u>, other Semitic languages namhuru.

- Only tamhurā, borrowed from the Du. and/or Fem. Pl., occurs in Akkadian; once also tamhurū. Other Semitic languages have tamhurū.
- 3. Older Akkadian tamhur, later imhur.

Chart 22. NUMBER, Verb.

"STEM" GEN. NUMBER MOOD OBJ. ENCL. ATTESTED Sg. Pl. (Ind.)

lst	Masc/Fem.	Sg.	mahir+'ak			+)á		(+ma) etc.	mahźräku
		P1.	mahir+na			+)eí			mahirana
2nd	Masc.	Sg.	mahir+t	+u	+Ø	+)4	-		mahírāt
		Pl.	mahir+t	+u	ים+	1 +)aí			mahjirātunu
	Fem.	Sg.	mahir+t	+i	+Ø	+)4			mahjirāti
		Pl.	mahir+t	<b>+i</b>	+_: 	i +)¢í			mahiratin
3rd	Masc.	Sg.	mahir+j	+u	+Ø	+)aí	+Ø		mahiry
		Pl.	mahir+ <b>j</b>	+u	+:	+já	+Ø		mahiru
	Fem.	Sg.	mahir+ <b>%</b>	+a	+Ø	+xí	+Ø		mah <b>ir</b> a(t)
		P1.	mahir+j	+a	+:	+)á	+Ø		mahíra

Chart 23. NUMBER, Stative.

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# 3. CASE / MOOD

# 3.1. Markers of Case: u // a/i

Rank number 3 after the stem is occupied by markers of case, nominative, genitive, dative, and accusative. As shown in detail in <u>Charts 32-48</u>, the markers are distributed as follows:

						Nom.	Gen./Acc.
<u>u</u> // <u>a</u> .	Charts 4	Off.	Pron.	Pers.	Sg.	('anāk <u>u</u> )	i <u>a</u> ti
					Pl.	('anin <u>u</u> )	ni <u>a</u> ti
					Sg.	a ('ant <u>p</u> ()	ku <u>a</u> ti
					P1.	(°antun <u>u</u> )	kunugti
					Sg.	šu	šug(ti)
						-	-
					Pl.	sunu	šunusti, šuniti
	Charts (	45ff.	Pron.	Suff.	Sg.	(*k <u>u</u> )	+kua, +kaa
					Pl.	(*kun <u>u</u> )	+kunug(ti)
					Sg.	(šu)	+šu <u>é</u>
					Pl.	(šunu)	+šunug(ti), +šuni/a
						<b>*</b> .	
						Ind.	<u>Subj</u> . u
	Chart 4	7.	Verb	lst	Sg.	°amhurní	
					Pl.	namhuru	u namhur <u>a</u>
				2nd	Sg.	tamhury	u tamhur <u>a</u>

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3rd	Sg.	jamhury	u jamhur <u>a</u>
Chart 48. Stat. 3rd	Sg.	mahirk	u mahira
		Nom.	Gen./Acc.
Ø // a. Chart 41f. Pron. Pers.	Sg.	(°anti)	ki <u>a</u> ti
	Pl.	(°antinž)	kin <b>ža</b> ti
	Sg.		šiati
	P1.	a šin <b>ž</b>	šin <b>ža</b> ti
Charts 44ff. Pron. Suff.	Sg.	(*i)	+i( <u>a</u> )
	Pl.	(*ni)	+niati, +nia, +nja
	Sg.	(*ki)	+ki <u>k</u>
	Pl.	a (*kin≠)	+kin <u><sup>fa(ti</sup></u> )
	Sg.	(ši)	+sig, +sig
	Pl.	a (šinž)	+sin <u>fa</u> (ti)
g // g. Chart 47. Verb 2nd Sg.	Гед.	_	<u>Subj</u> . i tamhura
P1.		. tamhurū	-
	Fem.	tamhurā	tamburā
3rd Sg.	Fem.	t pí jamhurpí	t u jamhuraí
Pl.	Masc	. jamhurū	janhuru
	Fem.	jamhurā	jamburā
Chart 48. Stat. 3rd Sg.	Fem.	mahjira(t)	mahíra(t)

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<b>9.2. 51</b>			
	Masc.	mahtrū	məhźrū
	Fem.	mahirā	mahtrā
		Nom.	Gen./Acc.
<u>u</u> // <u>i</u> . Chart 32. Pl. Subst.	Masc.	kalbum	kalbin
	Fem.	kalbāt <u>u</u> m	kalbatim
Chart 36. Part.	Masc.	mähirütum	māhirūt <u>i</u> m
	Fem.	māhirātum	māhirātim
Chart 39. Pron. Det,	Masc. Fem.	šūty šāty	sūti šāt <b>ī</b>

		Nom.	Gen.	Acc.
<u>u</u> // <u>i</u> // <u>a</u> . Chart 32. Sg. Subst.	Masc.	kalbum	kalb <u>i</u> m	kalban
	Fem.	kalbat <u>u</u> m	kalbat <u>i</u> m	kalbatam

Chart 36. Part. Masc. mähirum mähirim mähiram Fen. mähiratum mähiratim mähiratam

••

Chart	39.	Pron.	Det.	Masc.	šu	ši	ša
				Fen.	šaty	sat <u>i</u>	*satg

The list includes markers of the case and mood, since the two are identical; see 3.13. The question of the nominativization of the genitival complex ja+mhur+a to jamhur+u is taken up in 3.12.

For the secondary +ti in iati, etc., see 3.7.

## 3.2. Diptota and Triptota

The first observation which can be made from the list given above is that certain words under certain conditions are diptotic

#### 3. CASE / MOOD

and have two cases, namely Nom. and Gen./Acc., while others are triptotic and have three cases, namely Nom., Gen., and Acc.

Diptota with the case markers <u>u</u> // <u>a</u> appear in the Masc. of personal pronouns, both independent and suffixal; in the Masc. Sg. and the lat person Pl. (only) of verbs; in the Masc. 3rd person Sg. of the stative; and in some classes of diptotic substantives in West Semitic languages, as in Sg. Nom. <sup>3</sup>aşfaru Gen./Acc. <sup>3</sup>aşfara "yellow" or in Nom. <u>sakrānu</u> Gen./Acc. <u>sakrāna</u> "drunk." For ample documentation of the diptotic declension in personal names with the extended stem in <u>ān</u> at Ugarit, as in Nom. <u>Nûrānu</u>, <u>Burqānu</u>, Gen./Acc. <u>Nûrāna</u>, <u>Burqāna</u>, etc., see M. Liverani, "Antecedenti del diptotismo arabo nei testi accadici di Ugarit," <u>RSO</u> XXXVIII (1963) pp. 131-160.

Diptota with the markers  $\mathcal{Q}(=\underline{n})$  // <u>a</u> appear in the Fem. of the 2nd and 3rd persons and the Masc./Fem. of the 1st person of personal pronouns, both independent and suffixal.

Diptota with the markers  $\mathscr{Q}(=\underline{x})$  //  $\mathscr{Q}(=\underline{x})$  occur in the Fem. Sg. and Pl. and in the Masc. Pl. of verbs and statives.

Diptota with the markers  $\underline{u} // \underline{i}$  are characteristic of the Pl. (not Sg.) in substantives, participles, and determinative pronouns.

Triptota with the markers  $\underline{u} // \underline{i} // \underline{a}$  are characteristic of the Sg. (not Pl.) in substantives, participles, and determinative pronouns.

The Gen.  $\underline{i}$  in \*<u>Aššur+i</u> and the Gen.  $\underline{a}$  in \*<u>Aššur+a</u>, which can be reconstructed from the derived gentilic formations <u>Aššurijum</u> or <u>Aššurajum</u> (see 7.3), may belong to either the diptotic or triptotic class.

One interesting and important feature of the diptotic and triptotic declensions, which to my knowledge has never been noted

#### 3.2. Diptota and Triptota

in grammars of Semitic languages, is that the diptotic declension completely dominates the structure of the case. Thus the triptotic declension occurs only in the Sg. of the substantives, participles, and determinative pronouns. The diptotic declension occurs in the Pl. of the substantives, participles, and determinative pronouns; in the Sg. and Pl. of the personal pronouns, verbs, and statives; in the West Semitic diptotic nouns; and in the Du. of the nouns, pronouns, verbs, and statives.

It can be demonstrated that the diptotic declension represents the earlier stage, the triptotic the later, on the basis of the following evidence:

a) Since the case markers are identical with the gender markers (see below under 3.4), and the latter distinguish only two classes, the Masc. and Fem., it is logical to assume that originally the case also had distinguished only two classes, namely the subject and object (or <u>casus rectus</u> and <u>casus obliquus</u>).

b) The binary system of opposites, the dominant characteristic of the older stage of the structure of Semitic languages, evident in the opposites Masc. // Fem. of the gender, Sg. // Pl. of the number, should be reflected also in the opposites subject // object of the case (or mood). See also 0.4.

c) Since number is formed simply by lengthening the vowel of the gender, as in Sg. Nom. <u>kalbatum</u> Pl. <u>kalbātum</u>, or Sg. Gen. <u>kalbatim</u> Pl. <u>kalbātim</u>, the lack of such correspondence in Sg. Acc. <u>kalbatam</u> Pl. <u>kalbātim</u> implies that the Sg. Acc. of the triptotic declension was developed later than the Pl. Acc. of the diptotic declension.

d) In Arabic, the diptotic declension occurs in the indefi-

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nite state Nom. <u>aswadu</u>, Gen./Acc. <u>aswada</u> "black," but the triptotic declension occurs in the definite state Nom. <u>al-aswadu</u>, Gen. <u>al-aswadi</u>, and Acc. <u>al-aswada</u>. It is generally assumed that the definite state, with the article al, is of late creation.

I note with great satisfaction that J. KuryZowicz, <u>L'apophonie</u> en <u>Sémitique</u> (WrocZaw, 1961) p. 194, also pleaded in favor of the greater antiquity of the diptotic declension. Contrast, e.g., Moscati, <u>ICG</u> p. 87 <u>ad</u> 12.37.

## 3.3. Consonantal Glide t and Parallels

It was pointed out under 1.2 that the consonant  $\underline{t}$  occurring in the Fem. of substantives, participles, and determinative pronouns is not a primary marker of Fem., but a consonantal glide between two contiguous vowels. Thus in <u>kalb+a+t+u+m</u>, the consonant  $\underline{t}$  is to be interpreted as a glide between the vowel  $\underline{a}$  of the gender and the vowel  $\underline{u}$  of the case. This glide was introduced at the time when the normal case system was developed in Semitic languages.

The following additional evidence in favor of the consonantal glide  $\underline{t}$  can be adduced:

a) Below under 3.7 the consonant  $\underline{t}$  of such pronouns as  $\underline{\check{s}+u+a+t+i}$  is interpreted as a consonantal glide  $\underline{t}$  occurring between the vowel  $\underline{a}$  of the original oblique case and the vowel  $\underline{i}$  of the secondary oblique case, the latter introduced when the secondary case system developed in the language.

b) The glide <u>t</u> before markers of the Du. in Fem., as in <u>kalb+a+ta:+i+n</u>, was discussed under 2.7.

c) Several examples of a "Bindeelement <u>t</u>" before pronominal suffixes are listed in Barth, <u>Pronominalbildung</u> p. 33, such as WJQJMW-TH "und sie mögen ihn stellen" in inscriptional Aramaic.

d) The first word in <u>Bu-za-zu-ti-iš ti-kál</u> "rely on Buzazu"
(A. T. Clay, <u>Letters and Transactions from Cappadocia</u> [New Haven, 1927] 59:10) has to be analyzed as the personal name Buzazu, well-known from the Cappadocian texts, plus the consonantal glide <u>t</u>, plus the Dat. suffix +<u>iš</u>. The latter is discussed below under 3.8.

e) A secondary infix t is apparent in the Nuzi personal
 names <u>Bélijutu</u>, <u>Ilijutu</u>, etc., compared with <u>Béliju<sup>2</sup>u</u>, <u>Iliju<sup>2</sup>u</u>,
 etc. (<u>NPN</u> pp. 320ff.).

f) A secondary <u>t</u> occurs in the Anatolian personal names <u>Pirutahšu</u>, compared with <u>Piruahšu</u>, as well as in <u>Išputahšu</u>, compared with <u>Išpua</u>, etc. The variant form of <u>Išputahšu</u> is <u>Išpunahšu</u>, with a consonantal glide <u>n</u>, fully discussed under 2.2. For the Anatolian occurrences and two varying interpretations, see Emin Bilgiç, <u>Die einheimischen Appellativa der kappadokischen Texte</u> . . . (Ankara, 1954) pp. 37 and 77.

g) An intrusive <u>t</u> between two (original) vowels appears in such French forms as <u>il faudra-t-aller</u>, <u>il va-t-en ville</u> according to H. Frei, <u>La grammaire des fautes</u> (Paris, 1929) p. 104. But E. Bourciez, <u>Éléments de linguistique romane</u> (Paris, 1930) pp. 664f., takes the <u>t</u> in <u>aime-t-il</u>, <u>donne-t-elle</u> not as "euphonique," but as "dû à l'action analogique des groupes tels que <u>dort-il</u>, <u>vient-elle</u>."

For semi-consonantal glides 2 and j, see 1.2.

# 3.4. Markers of Case = Markers of Gender

The overt markers of case in the substantives, participles, and

pronouns are  $\underline{u}$  for the Nom., and  $\underline{a}$  and  $\underline{i}$  for the Gen. and Acc. The reconstructed markers of mood in verbs and statives are  $\underline{u}$  for the Ind. and a (and possibly i) for the Subj. See 3.13.

As reconstructed under l.l, the markers of gender are  $\underline{u}$  for the Masc. and  $\underline{a}$  or  $\underline{i}$  for the Fem. Thus it is a priori plausible that the markers of gender correspond to the markers of case / mood, and consequently that gender is identical with case / mood.

Since the case system most probably was developed later than and independently of the gender system (see 3.6), the fact that the same markers are used for both the gender and case leads to the supposition that there was some synesthesic recognition, in the language-culture patterns of the Semites, of the marker  $\underline{u}$ , on the one hand, and  $\underline{a}/\underline{i}$ , on the other. It manifested itself in the feeling that the vowel  $\underline{u}$ was strong and dominant and could be used for both the Masc. gender and the subject case (= <u>casus rectus</u>); while the vowels  $\underline{a}$  and  $\underline{i}$  were weak and dependent and could be used for both the Fem. gender and the object case (= <u>casus obliquus</u>).

The synesthesic feeling that both <u>a</u> and <u>i</u> represent an oblique object vowel comes best to the fore in the analysis of the oblique case of the personal pronouns, independent and suffixal, <u>suniti</u>, +<u>suni</u>, +<u>suniti</u>, and +<u>sunisim</u>, listed in <u>Charts 42 and 46</u>. The substantive plus the pronominal suffix of the 3rd person Pl. is reconstructed as <u>kalbu+<u>sunu+a</u> "dog of theirs," with the vowel <u>a</u> representing the oblique case of the personal pronouns. This <u>kalbu+<u>sunu+a</u> is realized as <u>kalbu+<u>sunu</u> in standard Akkadian and as <u>kalbu+<u>sunu</u> in a few cases in Old Akkadian. But in addition to <u>kalbu+<u>suna</u>, there are also cases of <u>kalbu+<u>suni</u> in Old Akkadian, where <u>i</u> cannot be the result of a phonetic contraction of the <u>u+a</u> of <u>kalbu+<u>sunu+a</u>, but</u></u></u></u></u></u></u>

#### 3.5. Relation of Markers of Gender to Markers of Case / Mood 77

must represent replacement of one oblique vowel, namely  $\underline{a}$ , by another oblique vowel, namely i.

For other cases of synesthesia, see below under 3.5 and 3.7. For a discussion of synesthesia, mainly in relation to sounds and colors, see Gladys A. Reichard, Roman Jakobson and Elizabeth Werth, "Language and Synesthesia," Word V (1949) pp. 224-233.

For the relation of markers of gender and case to Pers. Pron. I ju and ja, see 8.2.

#### 3.5. Relation of Markers of Gender to Markers of Case / Mood

The relation of the vowels of the markers of gender (plus/minus number) to the vowels of the markers of case is shown in <u>Charts 24-27</u>.

The following comments are appended to the charts on the next four pages:

The vowels  $\underline{u}+\underline{u}$  and  $\underline{u}+\underline{i}$  are preserved with the help of the consonantal glide  $\underline{t}$  in  $\underline{u}+\underline{u}$  and  $\underline{u}+\underline{t}\underline{i}$  in the Masc. Pl. of participles and determinative pronouns, as in <u>māhirūtum</u>. This  $\underline{t}$  glide of the Masc. was borrowed from  $\underline{t}$  glide of the Fem. of substantives, participles, and determinative pronouns (see 3.3). The glide appears as  $\underline{a}+\underline{t}\underline{u} < \underline{a}+\underline{u}$ ,  $\underline{a}+\underline{t}\underline{i} < \underline{a}+\underline{i}$ ,  $\underline{a}+\underline{t}\underline{a} < \underline{a}+\underline{a}$ ,  $\underline{a}+\underline{t}\underline{u} < \underline{a}+\underline{u}$ , and  $\underline{a}+\underline{t}\underline{i} < \underline{a}+\underline{i}$ . This glide appears also in  $\underline{a}+\underline{t}\underline{a} < \underline{a}+\underline{a}$  in the Du. <u>kalbatān</u>, <u>kalbatain</u>. See 2.7.

The vowels <u>u+a</u> and <u>i+a</u> are preserved with the help of semi-consonantal glides <u>w</u>, <u>j</u>, or <u>'</u>, as in <u>suwa</u> and <u>sija</u> or <u>su'a</u> and <u>si'a</u>. See 1.1.

The vowels  $\underline{i+u}$  and  $\underline{a+u}$  are preserved with the help of semiconsonantal glides  $\underline{i}$  or  $\underline{i}$ , as in <u>Assurijum</u> and <u>Assurajum</u> or Assurijum

	"STEM"	GENDER	NUMBER	CASE MOOD	OBJECT	ATTESTED
u+u = u+x	kalb	+11	+Ø	+)¢í	+10	kalbum
	<b>*</b> 5	+u	+Ø	+)á	sarrim	šu (Rel.)
	<b>`ant</b>	+u	+_u	+) <b>ź</b>		Pantunu
	š	+u	+Ø	+)ú		šu (Pers.)
	š	+u	+ u	+)á		šunu, etc.
	jamhur	+u	+Ø	+) <b>ú</b>	+Ø	jamhurní
	mahir	+u	+Ø	+)aí	+Ø	mahiry
ū+u = ū+x	kalb	+u	+:	+)4	+ <b>#</b>	kalbūr
	jamhur	+u	+:	+)#	+Ø	jamhurū
	mahir	+u	+:	+)1	+Ø	mahírū
ū+u ≖ ū+ <sub>t</sub> u	māhir	+u	+:	+ <sub>t</sub> u	+122	mähirūtum
	š	+u	+:	+ <sub>t</sub> ¥	šarrim	šūty (Rel.)

Chart 24. Relation of Marker  $\underline{u}$  of Gender to Marker  $\underline{u}$  of Case / Mood.

	"STEM"	GENDER	NUMBER	CASE MOOD	OBJECT	ATTESTED
u+i = #+i	kalb	+)¢	+ø	+i	+ <b>m</b>	kalbim
	š	+) <b>ú</b>	+Ø	+i	šarrim	ši (Rel.)
ū+i = ¥+i	kalb	+)¢	+:	+1	+pť	kalbiní
$\bar{u}$ +i = $\bar{u}$ + <sub>t</sub> i	māhir	+u	+:	+ <sub>t</sub> i	+m	māhirūtim
	8	+u	+:	+ti	sarrim	šūti (Rel.)
u+a = u+a	Š	+u	+Ø	+ <b>a</b>		šua (Pers.) <sup>1</sup>
u+a = xí+a	kalb	+)á	+Ø	+a	+10	kalbam
	5	+)¢	+Ø	+a	šarrim	ša (Rel.) <sup>2</sup>
	+k	+)¢	+Ø	+a		jamhuryika <sup>3</sup>
	jamhur	+)£	+Ø	+8.	+Ø	jamhura
	mahir	+)¢	+ø	+a	+Ø	mahira
u+a = u+a	+k	+u	+Ø	+#		jamhuryikum
	+s	+u	+ u	+ <b>s</b> í		jamhurusunu <sup>4</sup>
ū̃+a = ū+a	jamhur	+u	<b>*:</b>	+#	+Ø	jamhurū
	mahir	+u	+:	+¢Ĺ	+Ø	mahžrū

- Also in <u>šuaš</u>, <u>kuati</u>, <u>šuati</u>, <u>kuaum</u>, <u>šuaum</u>, <u>kunuaum</u>, and <u>šunuaum</u>.
   Also in the Pers. Pron. II <u>šu+a</u> in ju+ša+mhir.
- 3. Also in kalbu+sun k+a.

4. Also in jamhuru+su +#.

Chart 25. Relation of Marker  $\underline{u}$  of Gender to Markers  $\underline{i}$ and  $\underline{a}$  of Case / Mood.

80	"STEM"	GENDER	NUMBER	CASE MOOD	OBJECT	ATTESTED
i+u = i+x	°ant	+i	+_i	+)#		a °antin∦
	š	+i	+Ø	+)#		ši (Pers.)
	5	+i	+ <sub>n</sub> i	+)á		a šinž
i+a = i+a	5	+1	+Ø	+a		siati(Pers.) <sup>1</sup>
i+a = ‡+a	+n	+ <b>#</b>	+Ø	+a		kalbuna
	+5	+ž	+Ø	+a		kalbuša
	+š	+i	+ <sub>n</sub> ≭	+a		kalbuš ina
i+a = i+a	+n	+i	+Ø	+ <b>#</b>		kalbuni
	+k	+i	+Ø	+#		kalbuki
	+8	+i	+Ø	+#		kalbuši

1. Also in iati, kiati, niati, iaum, and niaum.

Chart 26. Relation of Marker <u>i</u> of Gender to Markers <u>u</u> and <u>a</u> of Case / Mood.

	"STEM"	GENDER	NUMBER	CASE MOOD	OBJECT	ATTESTED
$a+u = a+\mu$	jamhur	+a	+Ø	+)1	+Ø	jamhura
	mahir	+a	+Ø	+x(	+Ø	mahira(t)
a+u = a+ <sub>t</sub> u	kalb	+a	+Ø	+ <sub>t</sub> u	+ <b>n</b>	kalbatum
Ĩ	š	+a	+Ø	+ <sub>t</sub> u	šarrim	satu
ā+u = ā+µ	jamhur	+8	+:	+)4	+Ø	jamhurā
	mahir	+8	+:	+)4	+Ø	mahira
ā+u = ā+ <sub>t</sub> u	kalb	+8.	+:	+ <sub>t</sub> u	+ <u>n</u>	kalbātum
Ŭ	š	+a	+:	+ <sub>t</sub> u	šarrim	šāty
<b>a+i = a+</b> _i	kalb	+a	+Ø	+ <sub>t</sub> i	+10.	kalbatim
C	š	+a	+Ø	+ <sub>t</sub> i	šarrim	šati
ā+1 = ā+ <sub>t</sub> i	kalb	+8.	+:	+ <sub>t</sub> i	+ <b>n</b>	kalbātim
Ĺ	š	+8.	+:	+ <sub>t</sub> i	šarrim	šāti
a+a = a+a	jamhur	+8.	+Ø	+¢.	+Ø	jamhura
	mahir	+a	+Ø	+ø.	+Ø	mahjira(t)
a+a = a+ <sub>t</sub> a	kalb	+8	+Ø	+ <sub>t</sub> a	+12	kalbatam
τ	š	+8	+Ø	+ <sub>t</sub> a	sarrim	*sata
ā+a = ā+a	jamhur	+a	+:	+#	+Ø	jamhurā
·	mahir	+a	+:	+#	+Ø	mah≠rā

Chart 27. Relation of Marker <u>a</u> of Gender to Markers <u>u</u>, <u>i</u>, and <u>a</u> of Case / Mood. and Assura'um. See 1.1.

With the loss of length in <u>a:</u>, the vowels <u>a/+i</u> are preserved in the West Semitic Du. <u>kalbain</u>, <u>kalbatain</u>, but contracted to <u>kalbên</u> or <u>kalbîn</u> and <u>kalbatên</u> or <u>kalbatîn</u> in Akkadian. See 2.7.

The vowel combinations just listed, as well as all other vowel combinations, are exposed to certain vocalic changes, as shown in the charts:  $\underline{\not} + \underline{i}$ ,  $\underline{\not} + \underline{i}$ ,  $\underline{\not} + \underline{a}$ ,  $\underline{u} + \underline{a}$ ,  $\underline{\dot} + \underline{a}$ ,  $\underline{i} + \underline{a}$ ,  $\underline{a} + \underline{a}$ , and  $\underline{\bar{a}} + \underline{a}$ . Cf. also  $\underline{\not} + \underline{\bar{a}}$  and  $\underline{\bar{a}} + \underline{a}$  in Du. <u>kalb+ $\underline{a} + a + \underline{a} + \underline{a} + \underline{a} + \underline{a}$ </u> and <u>kalb+ $a + \underline{a} + \underline{a} + \underline{a} + \underline{a}$ </u>. See 2.7.

Because it is the second vowel in these vowel combinations that is usually elided, I assume similar conditions in the combinations of identical vowels in  $\underline{u+\mu}$ ,  $\underline{\bar{u}+\mu}$ ,  $\underline{a+\mu}$ , and  $\underline{\bar{a}+\mu}$ .

The various phonetic changes may be due to several causes arising from the incompatibility between certain vowels or markers. Some vowel combinations such as  $\underline{u+u}$ ,  $\underline{a+a}$ ,  $\underline{u+i}$ ,  $\underline{i+a}$ ,  $\underline{a+u}$ , or  $\underline{a+i}$ are resolved by having one of the vowels dropped, as in  $\underline{u+u} > \underline{u}$ , or  $\underline{u+i} > \underline{i}$ , or by the introduction of a consonantal glide between the two vowels, as  $\underline{u+u} > \underline{utu}$  or  $\underline{u+i} > \underline{uti}$ . The vowel combinations  $\underline{u+a}$  and  $\underline{i+a}$  are either preserved as  $\underline{ua}$  and  $\underline{ia}$ , or are contracted to  $\underline{u}$  or  $\underline{a}$  and  $\underline{i}$  or  $\underline{a}$ , respectively.

One important remark is needed concerning the relation of the markers of gender to those of case / mood. In such sequential reconstructions as  $\underline{kalb+u+p+p(+m)}$ , where the second  $\underline{u}$ , that of the Nom. case, is crossed out or is described as having dropped out, I do not mean to imply that the marker  $\underline{u}$  of case was actually added to the markers of gender and number. When the case system was developed,  $\underline{u}$  became the marker of the Nom. case, which must be marked in its proper place by the rules of sequential reconstruction.

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#### 3.6. Time of the Development of the Case System

Actually, the original <u>kalb+u+ $\emptyset$ </u>, already containing the vowel <u>u</u> of the dominant Masc. gender (see 3.1), needs not another marker <u>u</u> to denote the dominant Nom. (subject) case. By contrast, the original <u>kalb+a+ $\emptyset$ </u>, containing the dependent vowel <u>a</u> of the Fem., needs and has acquired the subject marker <u>u</u> of the Nom., as evident in <u>kalb+a+ $\emptyset$ +</u> <u>u+m</u>. For a discussion of synesthesia, cf. also 3.4 and 3.7.

It is this discrepancy between the force of a linguistic reconstruction and reality that led me in 1952 to call the procedure "ideal reconstruction," with a further remark that "because it is ideal, it could have never corresponded to reality" (<u>Morphology of</u> <u>Akkadian</u> p. 3). See on this point the important discussion near end of 0.3.

## 3.6. Time of the Development of the Case System

The question arises in respect to the time of the evolution of the case system in Semitic languages. Was it developed at the same time as the gender and number systems? Or was it developed at some later date? The answer I propose is in favor of the second alternative in the basis of the following considerations:

a) The case system is represented as rank number 3 and follows ranks 1 and 2, which represent the gender and number systems. Consequently, it is possible to assume tentatively that the case system had developed later in time than the gender and number systems.

b) As shown under 3.5, the markers of gender  $(\underline{u} // \underline{a}/\underline{i})$  are the same as the markers of the case / mood  $(\underline{u} // \underline{a}$  and possibly  $\underline{i}$ ). It would seem very unlikely that the same markers would have

#### 3. CASE / MOOD

been used for both gender and case if the two systems had developed at the same time.

c) The case system, especially the Nom., is rather poorly developed in the personal pronouns, leading to the supposition that the personal pronouns preserved the caseless system of the previous periods better than the other word classes.

d) As shown by many examples listed in Gelb, MAD II<sup>2</sup> pp. 139ff., divine names, such as <u>Dagān</u>, <u>Hanīš</u>, <u>>I1</u>, month names, such as <u>Bahir</u>, <u>Şalūl</u>, geographic names, such as <u>Kakkabān</u>, <u>Maškan</u>, old personal names, such as <u>Zuqaqīp</u>, <u>Tizkar</u>, <u>Samūk</u>, and very early Akkadian loan words in Sumerian, such as <u>haşin</u> "ax," <u>šadū</u> "mountain," <u>šūm</u> "garlic" (or "onion"), have no case endings whatsoever and may possibly go back to a period before the development of the case system. However, the occurrence of Fem. names (<u>ibid</u>.), such as <u>Hibilat</u> (geographic), <u>>Illat</u> (divine), and <u>Hirišat</u> (month), is disturbing because the final <u>t</u> posits the existence of <u>Hibilstum</u>, <u>>Illatum</u>, and <u>Hirišstum</u> with case endings and mimation. See 3.3. Also Amorite has similar examples in such names as <u>Jaqar</u> (personal), <u>Mēdbir</u> (personal), <u>"Anat</u> (divine), and <u>Biśir</u> (geographical). See Gelb, <u>La lingua degli Amoriti</u> § 3.2.3.1.3."

e) The older Akkadian forms of the interrogative pronouns are caseless <u>man</u> "who?" and <u>min</u> "what?" for later <u>mannum</u> and <u>minum</u> (Gelb, <u>MAD</u> II<sup>2</sup> pp. 136f.).

f) Two forms of the Fem. noun in Abs. St. occur in Amorite: a full form with case endings and mimation, as in <u>Tâbatum</u> "good," <u>Hakamatum</u> "wise," or <u>Pa-te-ha-tum</u> "opened," and a form without case endings and mimation, as in <u>Tâba</u> "good," <u>Gazala</u> "gazelle," or <u>Pa-ti-ha</u> "opened." See Gelb in Symbolae Kury≵owicz p. 76.

#### 3.7. Secondary Object Case

The characteristic of personal pronouns, both independent and suffixal, is the existence of the suffixes  $+\underline{ti}$  and  $+\underline{sim}$  (listed in Charts 40-46) in the object case.

The suffixes +<u>ti</u> and +<u>sim</u> occur in all persons, genders, and numbers of the independent pronouns, as in <u>iati</u>, <u>iašim</u>, <u>niati</u>, <u>niašim</u>, etc. The suffixes +<u>ti</u> and +<u>šim</u> are found in the Pl. (never Sg.) of the suffixal pronouns in the Acc. and Dat. cases, attached to a verb, as in <u>impur+niati</u>, <u>impur+niašim</u>, etc. The suffix +<u>ti</u> never appears in the suffixal pronoun in the Gen. case attached to a noun; thus we have only <u>kalbu+ka</u> and <u>kalbu+kunu</u>, never <u>kalbu+kuati</u> and <u>kalbu+kunuti</u>.

Some important dialectal divergencies should be noted.

Forms without +<u>ti</u> are found in Old Akkadian <u>sua</u> (for <u>suati</u>) and +<u>suni</u>, +<u>sunu</u> (for +<u>sunuti</u>).

While Old Assyrian uses the independent pronoun in forms known from standard Old Babylonian, the usage of the suffixal pronouns is different. With the exception of <u>iniati</u>, all other persons in the Pl. appear without <u>in the Acc.</u>, as in <u>imbur+sunu</u> "he received them." By contrast, forms with <u>in regularly</u> have the function of a Dat., as in imbur+sunuti "he received for them."

Forms without +<u>i</u> are found in Old Akkadian <u>suas</u> (for <u>suasim</u>), +<u>nias</u> (for +<u>niasim</u>), and +<u>sinat</u> (for +<u>sinati</u>). Forms without +<u>i</u> are a regular feature of the Babylonian poetic language.

I interpret <u>i</u> of <u>suati</u>, <u>suati</u>, <u>suasim</u>, <u>suasim</u>, <u>stasim</u>, etc., as a secondary marker of the oblique case which developed in addition to the earlier and primary marker <u>a</u> of the oblique case in <u>sua</u>, etc. For parallel instances of secondary features, see 1.5.

Of the two consonantal infixes, namely <u>t</u> in <u>suati</u>, etc., and <u> $\check{s}$ </u> in <u>suasim</u>, etc., the interpretation of the latter is simple. The consonant <u> $\check{s}$ </u> clearly represents the old Dat. suffix, as

in kalbis "to the dog," fully discussed below under 3.8.

The existence of mimation in the Dat. <u>suasim</u>, etc., and the lack of it in the Gen./Acc. <u>suati</u>, etc., cannot be satisfactorily explained. Since mimation (in rank 4) is the marker which signals the lack of pronominal suffix (also in rank 4; see 4.3), the occurrence of <u>m</u> with pronominal suffixes is disturbing. One might speculate that the <u>m</u> of the Dat. of the personal pronouns is not identical with the <u>m</u> of the mimation in the noun, but that it represents some ossified remains of an old pronominal suffix with a datival function.

The question of the origin of the <u>t</u> infix in <u>suati</u>, etc. is controversial. Two possible interpretations can be given.

a) The usual interpretation of  $\underline{t}$  is to regard it as the <u>nota</u> <u>accusativi</u>, comparable with the datival function of  $\underline{\check{s}}$ . In favor of this assumption one can cite <u>kut</u> "thee" in Acc. and <u>kuš</u> "to thee" in Dat. in Agau; lack of +<u>ti</u> in the suffixal pronoun functioning as Gen. in <u>kalbu+kunu</u> never <u>kalbu+kunuti</u>; and the existence of +<u>šinat</u> already in Old Akkadian and the frequent occurrence of <u>t</u> without final <u>i</u> in Babylonian poetic language, which is characterized by many archaic features. Against this interpretation one can argue that the independent pronouns <u>šuati</u>, etc., are used not only for the Acc., but also for the Gen.; that pronouns functioning as Dat. never occur without  $\underline{\check{s}(\underline{i})}$ , while those functioning as Gen. or Acc. can appear with or without <u>t(i)</u>; that the suffixal +<u>šunuti</u>, etc., are used with the function of a Dat. in Old Assyrian; and that old Akkadian, Babylonian poetic, and some dialects of Assyrian know of clear cases of vowel apocopation,

#### 3.8. Other Markers of Case

such as <u>imhurū+š</u> for <u>imhurū+šu</u> (in Masc.) or <u>imhurū+ši</u> (in Fem.), depending on the period or dialect. This shows that the function of <u>t</u> cannot be restricted to the <u>nota accusativi</u>, but to the oblique case in general. However, even this broader interpretation of <u>t</u> in personal pronouns stumbles against the fact that the intrusive <u>t</u> appears in the feminines of substantives, participles, and determinative pronouns, as in <u>kalbatum</u>, <u>māḥirstum</u>, or <u>śāt</u>s, in which <u>t</u> certainly had nothing to do with the Acc. case. For its function as a consonantal glide between two vowels, <u>a</u> of gender and <u>u</u>, <u>i</u>, <u>a</u> of case, see 1.3.

b) Thus the other interpretation of <u>t</u>--and the one here favored--is that of a consonantal glide. This means that <u>t</u> had no inherent morphemic function, but was developed secondarily as a glide between the vowels <u>a</u> and <u>i</u>, the primary and secondary markers of the oblique case.

The regular use of the consonantal glide  $\underline{t}$  in the secondary object case (see just above) and in the Fem. gender (see 1.2 and 1.5) may well have resulted eventually in a synesthesic recognition of the force of the consonant  $\underline{t}$  in the function of the object case and Fem. gender. Cf., e.g., the development of the West Semitic <u>nota accusativi</u>  $\underline{it}$  (= Hebrew  $\underline{\underline{it}}$ ) and the form <u>tambur</u> of the Fem. 3rd person Sg. of the verb in Old Akkadian and elsewhere. See 9.2 end. For other cases of synesthesia, see 3.4 and 3.5.

# 3.8. Other Markers of Case

In addition to the Nom., Gen., and Acc. discussed above, two more cases, Dat. in <u>is</u> and Loc. in <u>um</u> occur in Akkadian and partially in other Semitic languages.

The use of the case marker <u>is</u> is illustrated in <u>Chart 28</u>. Note the following about the distribution of the marker <u>is</u>:

The marker  $\underline{is}$  is productive only in Old Akkadian. In later periods only the adverb in  $\underline{is}$  is fully productive in different genres and areas of Akkadian. Its frequent occurrence in the poetic language must be considered an archaic feature. For Old Akkadian, see Gelb, <u>MAD</u> II<sup>2</sup> pp. 142-145; for the poetic (= "hymnisch-episch") language, see von Soden, <u>ZA</u> XLI (1932) pp. 90-130.

The marker <u>iš</u> represents a full case in the noun, as in Subst., Part./Adj., and also in Inf., as in <u>abazis</u> "for the taking" or hussusis "in reminder."

A noun with the case marker <u>is</u> can be followed by Pron. Suff. +<u>ka</u> (also +<u>ki</u>) and +<u>su</u> (also +<u>sa</u>, +<u>sunu</u>). Apparently it is never used in the lst person Sg. or Pl.

The marker <u>iš</u> is not attested after the noun in Masc. Pl. It is used after Fem. Sg. and Pl. nouns, as in <u>sallatis</u> "as booty," <u>dârijātiš</u> (beside <u>dârîš</u>) "forever," <u>ahartiš</u>, <u>ahrîtiš</u>, and <u>ahrâtaš</u> "for the future."

The marker  $\underline{is}$  is frequently used to form adverbs and prepositions, the latter often corresponding simply to the Constr. St. of the noun.

The stem of the noun can be simple, as in  $\underline{qat+is}$  "to the hand," or extended, as in <u>sinnis+an+is</u> "like a woman."

A combination of two markers can occur either as  $+\underline{i}\underline{s}+\underline{i}\underline{m}$ , in <u>kirij+i}s+u</u> "into the orchard," <u>qaqqar+ $\underline{j}\underline{s}+\underline{u}\underline{m}$ </u> "into the ground," <u>um+ $\underline{j}\underline{s}+\underline{u}\underline{m}$ </u> "daily;" or as  $+\underline{i}\underline{s}+\underline{a}\underline{m}$ , in <u>um+i}s+am</u> "day by day." See Gelb, <u>MAD</u> II<sup>2</sup> p. 145.

	STEM	GEN.	NUM.	CASE	OBJ.	ATTESTED
Subst., Abs.	۶il	+)4	+Ø	+iš	+Ø	'iliš "to the god"
Adverb	2ah	+ <b>y</b> á	+Ø	+iš		'ahiš "like a brother," "together"
	dann	+xí	+Ø	+iš		danniš "strongly"
	sinnišān	+)⁄a	+Ø	+iš		sinnišāniš "like a woman"
Subst.,Constr.St.	kirij	+)á	+Ø	+iš	Sin	kiris Sin "to the orchard of Sin"
Preposition	mahar	+Ø	+Ø	+iš	<b>'iliš</b> u	mahriš 'ilišu "before his god"
Subst., Pron.Suff.	*qât	+)4	+Ø	+iš	+i	
	qât	+)á	+Ø	+iš	+ka	qâtiška "to <del>y</del> our hand"
	qât	+)á	+Ø	+iš	+su	qâtiššu "to his hand"
Pers. Pron.	š	+u	+Ø	+aš		šuaš "to him" (Old Akk.)
	š	+u	+Ø	+aš+im	1	šuašim "to him"
	+š	+u	+Ø	+aš+in	a	+šuašim "to him"
	š	+u	+ <sub>n</sub> u	+øš+in	n	sunusim "to them"
	+š	+u	+_u n	+as+i	1	+sunusim "to them"
	+ni			+aš		+niaš "to us" (Old Akk.)
	+ni			+aš+i	n	+niašim "to us"

Chart 28. Dative Case is.

Much confusion exists, even in the Old Akkadian period, in the use of the markers  $\underline{is}$  and  $\underline{um}$ . This is due partly to the difficulties in distinguishing such frequent occurrences as  $\underline{gatussu}$ , which developed from  $\underline{gatissu}$  (through  $\underline{is} > \underline{us}$ ), and  $\underline{gatussu}$ , which developed from " $\underline{gatumsu}$  (through  $\underline{ms} > \underline{ss}$ ).

The misunderstanding of the function of the  $\underline{is}$  and  $\underline{um}$  markers in later periods can be recognized in the frequent use of the prepositions ina and ana before words with markers  $\underline{is}$  or  $\underline{um}$ .

Worthy of mention, although not discussed further, are the occurrences of <u>išš</u> in <u>(w)êd+išš+ī+ja</u> "I alone" (also with +<u>ka</u>, etc.), <u>êr+išš+ī+šunu</u> "in their nakedness" (also with +<u>ja</u>, etc.), where the double <u>šš</u> cannot be explained. See von Soden, <u>ZA</u> XLI (1932) pp. 115ff., and <u>GAG</u> § 67f.\*

Personal pronouns, both independent and suffixal, have the marker  $\underline{as}$ , never  $\underline{is}$ . For the secondary +<u>im</u> in <u>suasim</u>, etc., see 3.7.

Enclitics, such as +ma, are often found used with adverbial function after the markers of the object.

Outside of Akkadian, the marker <u>is</u> is rare in Semitic languages. J. Barth, <u>ZA</u> XXVIII (1914) pp. 307ff., pointed out that such Syriac adverbs as <u>sapira</u><sup>-j</sup><u>it</u> "beautifully," <u>marira</u><sup>-j</sup><u>it</u> "bitterly," contain an element <u>it</u> (= <u>^it</u>), which he connected with the Akkadian <u>is</u>. He also compared Hebrew <u><sup>'a</sup>horannit</sub> "backwards" and <u>gedorannit</u> "in dirty (attire)" with Akkadian <u>sinnišaniš</u> "like a woman," etc.</u>

The existence of the element <u>iš</u> (and variants) after a noun in Amorite has been noted by Gelb, <u>La lingua degli Amoriti</u> § 3.2.3.1.6, in such examples as <u>A-hi-iš-tu-ia</u>, <u>A-hi-iš-du-ka</u>, <u>Da-di-iš7-me-El</u>, <u>Du-du-uš-me-El</u>. The interpretation and comparison with Akkadian <u>iš</u> is uncertain. The evidence for  $+\underline{s}$  or  $+\underline{s}$  in the so-called Hamitic languages was gathered by von Soden, <u>ZA</u> XLI pp. 119f. These markers are used there apparently as postpositions, with varying functions of a Dat., Abl., or Loc.

For some possible parallels to Akkadian <u>is</u> in Egyptian and other African languages, see F. Rundgren, <u>Über Bildungen mit</u> <u>s</u> <u>und n-t-Demonstrativen im Semitischen</u> (Uppsala, 1955) pp. 28ff., 33ff., and 157ff.

An +<u>āh</u> (= <u>oh</u>) suffix occurs frequently in Hebrew to denote direction or location, as in <u>arşāh</u> "to the land," <u>haššāmajmāh</u> "heavenwards," <u>šə</u>blāh "to Sheol," <u>Kaśdłmāh</u> "to the Chaldeans." It also occurs in a noun in Constr. St., as in <u>arşāh Mişrajim</u> "to the land of Egypt," <u>midbarāh Dammāšeq</u> "to the desert of Damascus."

That the final <u>h</u> in Hebrew is a full consonant and not a <u>mater</u> <u>lectionis</u> was proved by Ugaritic spellings with <u>H</u>, as in <u>aRSH</u> "earthwards," and <u>SMMH</u> "heavenwards."

The connection between the Hebrew  $+\underline{a}\underline{h}$  and Ugaritic  $+\underline{H}$  (=  $\underline{a}\underline{h}$ ) was discussed by E. A. Speiser, "The Terminative-Adverbial in Canaanite - Ugaritic and Akkadian," <u>Israel Exploration Journal</u> IV (1954) pp. 108-115. He pointed out (pp. 109f.) that the Hebrew marker is an unstressed enclitic corresponding to the prepositional particles, and concluded that  $\underline{a}\underline{h}$  of Hebrew and Ugaritic is related to Akkadian  $\underline{i}\underline{s}$  or  $\underline{a}\underline{s}$  not by a phonological process, but via parallels in the morphemic distribution of the  $\underline{s}$  and  $\underline{h}$  elements. For phonological problems affecting  $\underline{s}$ ,  $\underline{h}$ , see 8.1.

For the time being, I prefer to omit the adduced Ugaritic and Hebrew parallels. Even if we admit the correctness of Speiser's interpretations, the fact still remains that Hebrew <u>ah</u> is an enclitic

which functions as a postposition placed after the inflectional elements, while Akkadian  $\underline{is}$  is a case, which must appear in the sequencerank number three. See also below.

Since I do not know of any parallels to the borrowing of either postpositional or case elements by Akkadian from Sumerian, I prefer to leave open the question of the relationship of the Sumerian postposition <u>èš</u> "to" to Akkadian <u>iš</u>, even though the attested Sumerian allomorph <u>iš</u> (besides <u>eš</u>, <u>aš</u>, <u>uš</u> in B. Landsberger et al., <u>Materialien</u> <u>zum sumerischen Lexikon</u> IV [Roma, 1956] p. 150), sounds exactly like Akkadian <u>iš</u>.

We found above a full  $\underline{is}$  used in the noun;  $\underline{zs}$  used in the noun, with the short vowel  $\underline{i}$  elided as the result of stress, as in  $\underline{um+zs+um}$ ; and  $\underline{it}$  (from  $\underline{is}$ ) in Syriac and Hebrew adverbs based on nouns.

On the other hand, <u>as</u> and <u>as</u> occur in personal pronouns, both independent and suffixal, with the vowel <u>a</u> of <u>as</u> coalescing with the vowel <u>u</u> of the Pl., as in <u> $\underline{s}+u+\underline{u}+\underline{asim}$ </u>. <u>As</u> is found also in <u>apratas</u> "for the future," a noun used adverbially. For possible, though doubtful, interpretations of this unique and disturbing occurrence, cf. von Soden, <u>ZA</u> XLI p. 128.

Considering that  $\underline{is}$  is found in the noun and  $\underline{as}$  in the personal pronoun, it would seem plausible to assume that the marker of the Dat. case was  $\underline{s}$ , with  $\underline{i}$  of  $\underline{is}$  being the Gen. marker of the noun, and  $\underline{a}$  of  $\underline{as}$  being the Gen. marker of the personal pronoun. For the Gen. markers,  $\underline{i}$  in the noun and  $\underline{a}$  in the pronoun, see above under 3.1.

On the other hand, the marker  $+\underline{is}$  appears as a true preposition  $\underline{is}$ , in which the vowel  $\underline{i}$  must be considered as primary. This preposition is found in early Mari texts, dated to the time after the Third Dynasty of Ur and before the Old Babylonian period, published by R.

Jestin, <u>RA</u> XLVI (1952) pp. 185-202, and discussed by Gelb, <u>RA</u> L (1956) pp. 1-10. From over a dozen cases listed by Gelb, <u>op. cit</u>, pp. 4f., note the following: <u>is girab matim</u> "to the heart of the land," <u>is nakrim</u> "to the enemy," and <u>is ASGAB</u> "for the leather-worker."

If  $\underline{is}$  is to be considered as primary, then the form  $\underline{as}$  in the pronoun may be interpreted as  $\underline{is}$  which changed to  $\underline{as}$  under the influence of  $\underline{a}$  of the oblique case of the pronoun, resulting in  $\underline{s}+u+\theta+a+\underline{is} = \underline{s}+u+\theta+a\underline{s}$ . See p. 80.

For the secondary case +i in <u>suasim</u>, etc., see 3.7.

We conclude by suggesting that  $\underline{is}$  was originally a preposition with the meaning "to," which, used postpositionally after the marker of gender and number, became the marker of the Dat. case. Both the preposition  $\underline{is}$  and  $\underline{is}$ , the marker of the Dat. case, were replaced in the course of time by prepositional phrases with <u>ana</u> "to."

The use of the case marker <u>um</u> is illustrated in <u>Chart 29</u>. Notes to <u>um</u>:

The marker  $\underline{u}m$  is productive only in Old Akkadian. Its occurrence in the later poetic language must be considered an archaic feature; see Gelb, MAD II<sup>2</sup> pp. 142-145; von Soden, <u>ZA</u> XLI pp. 90-130.

The marker  $\underline{u}m$  represents a full case of the noun, including the Subst. and Part./Adj.

A noun with the case marker  $\overline{u}m$  can be followed by Pron. Suff. +<u>i/a</u>, +<u>ka</u> (also +<u>ki</u>, +<u>kunu</u>), +<u>šu</u> (also +<u>ša</u>, +<u>šunu</u>), and +<u>ni</u>.

The marker  $\underline{\tilde{u}m}$  is not attested after a noun in Masc. Pl. It may occur after the Fem. Sg. noun, as in <u>qibîtûšša</u> "by her command," and <u>tanittūkka</u> "in thy glory." See von Soden, <u>ZA</u> XLI p. 97.

The marker <u>um</u> is frequently used to form adverbs and prepositions, the latter often corresponding simply to the Constr. St. of the noun. GEN. NUM. CASE OBJECT ATTESTED

STEM

Subst.,Abs.	kurr	+)aí	+Ø	+นิท	+Ø	kurrūm "per 1 kur"
Adverb	'al	+)aí	+Ø	+ūm	-	alum "where?"
	šaplān	+)á	+Ø	+ūm		saplanum "below"
Subst.,Constr.St.	qirb	+)á	+Ø	+ūm	Babilim	qirbūm B. "in the midst of Babylon"
Preposition	bal	+)á	+Ø	+นิต	Dagān	balum D. "without D."
Subst.,Pron.Suff.	aêt	+)aí	+ø	+ūn/	a	<b>*</b> - <b>*</b> • • • • • • • • • • • • • • • • • • •
	-	тµ	+90	+upa k	+ <b>ž</b>	qâtū <sup>3</sup> a "in my hand"
	qât	+)aí	+Ø	+und	+ka	qâtükka "in your hand"
	qât	+)á	+Ø	s +ūpi -	+šu	qâtūššu "in his hand"
	qibij	+\$(	+Ø	s + <sub>t</sub> ūn/ v	+sa	qibîtūšša "by her command"
	šaplān	+)4	+Ø	ร +บีศ ก	+šu	šaplānūššu "below him
	'as ar	+)á	+Ø	+un/	+ni	°ašrūnni "in our place"

Chart 29. Locative Case um.

The stem of the noun can be simple, as in  $\underline{q\hat{a}t+\bar{u}m}$  "in the hand," or extended, as in  $\underline{\check{s}apl+\bar{a}n+\bar{u}m}$  "below."

The marker units never used with personal pronouns.

For the combination of two markers,  $\underline{i}\underline{s}+\underline{u}\underline{m}$ , for possible cases of confusion between  $\underline{i}\underline{s}$  and  $\underline{u}\underline{m}$ , and for use of enclitics, such as +<u>ma</u> after the markers of the object, see above under  $\underline{i}\underline{s}$ .

In older periods the marker  $\underline{u}m$  appears regularly either as  $\underline{u}m$  or in a form in which <u>m</u> is assimilated to the following consonant of the pronominal suffix, as in "<u>qâtum+ka</u> > <u>qâtuk+ka</u>, "<u>qâtum+šu</u> > <u>qâtuš+šu</u>, or "<u>qâtum+ni</u> > <u>qâtum+ni</u>. Only "<u>qâtum+i</u> > <u>qâtu+'a</u> in the lst person Sg. causes difficulties. Beginning with the Old Babylonian period, the consonant <u>m</u> of <u>um</u> often disappears, as in <u>ina</u> <u>libbu mâtim</u> "in the land," and <u>warkānu</u> "later."

Outside of Akkadian, the marker  $\underline{un}$  is found in Arabic adverbs, as in <u>tahtu</u> "beneath," <u>ba</u><sup>c</sup>du "afterwards," or, with a preposition, <u>min tahtu, min ba</u><sup>c</sup>du; and in Ethiopic, as in <u>täht</u>u "beneath," <u>gadimu</u> "earlier," <u>lā</u><sup>c</sup><u>əlū</u> "above." The adverb <u>kadū</u> "enough" in Syriac (and other Aramaic languages) is cited by von Soden, <u>ZA</u> XLI p. 118 n. 1, after C. Brockelmann, <u>Lexicon Syriacum</u> (2nd ed., Halle, 1928) p. 318b, as belonging here, but J. Payne Smith, <u>A Compendious Syriac Dictionary</u> (Oxford, 1903) p. 205a, derives <u>kadū</u> from <u>kad hū</u>.

I leave out of consideration such Hebrew adverbs as <u>pit'om</u> "suddenly," <u>'omnām</u> "really," and <u>cārōm</u> "naked," because of the difficulties in establishing their original final morpheme. The element +<u>umma</u> in the paronomastic infinitive construction of the type <u>kašādūmma</u> <u>akšudam</u> "I arrived" (<u>ARMT</u> III 7:7f.) in Akkadian and some other Semitic languages (see E. J. Young, "Adverbial -<u>u</u> in Semitic," <u>The Westmin-</u> <u>ster Theological</u> Journal XIII [1950] pp. 151-154), is certainly derived

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from <u>1+ma</u>, that is, the adverbial <u>1</u> (from <u>ai</u>) plus the enclitic <u>ma</u>. This can be proved by examples of the type <u>qatālī+ma</u> in Amarna Canaanite (see William L. Moran, "The Use of the Canaanite Infinitive Absolute . . .," <u>JCS</u> IV [1950] pp. 169-172), as well as by <u>eddešī+ma epuš</u> "I made anew," compared with <u>eddešūm+ma îpuš</u> "he made anew." See Gelb, <u>MAD</u> III p. 20. Note <u>i</u> > <u>u</u> before <u>m</u>, as in <u>simmum</u> > <u>summum</u> "mother;" <u>šimum</u> > <u>šumum</u> "name," in Akkadian and other Semitic languages.

Parallelism with <u>is</u> suggests that <u>um</u> may have originally represented a preposition and/or a postposition. There is, however, no evidence in either Akkadian or other Semitic languages to support this suggestion.

Two main questions in respect to the marker here symbolized as <u>um</u> are: Is the vowel short or long? If the vowel is short, does the Loc. <u>um</u> correspond to the Nom. um?

Von Soden, <u>GAG</u> § 66, calls <u>un</u> "Der Lokativ-Adverbial auf <u>un</u>," but considers the possibility that the vowels of the Loc. and Nom. may have been different. In <u>ZA</u> XLI p. 118 he writes <u>un</u> and <u>u</u> for Akkadian occurrences, but <u>u</u> for other Semitic languages. Moscati, <u>ICG</u> p. 95, states that the material at hand seems to favor a short <u>u</u>. Diakonoff, <u>SHL</u> p. 58, writes short <u>u</u> and connects the Loc. with the Nom. via their ergative function.

In considering the answers to these two questions, it is necessary to examine carefully the complementary-distribution patterns of the Nom. and Loc. cases, as illustrated in <u>Chart 30</u>.

The comparable items within the pairs need very few comments. Ka and <u>Babilim</u> represent objects in rank number 4. Mimation marks

	STEM	GEN.	NUM.	CASE	OBJECT	ATTESTED
Nom.	qirb	+u	+Ø	+)ú	+ka	qirbuka "your middle"
Loc.	qirb	+u	+Ø	+)1:10	+ka	qirbūkka "in your middle"
Nom.	qirb	+u	+Ø	+)4	Bâbilim	qirbu Bâbilim "the middle of B."
Loc.	qirb	+u	+ø	+)á 130	Bâbilim	qirbūm Bâbilim "in the midst of B."
Nom.	qirb	+u	+Ø	+)á	+m	qirbum "the middle"
Loc.	qirb	+u	+Ø	+)aí:m		qirbûm "inside" (adverb)

Chart 30. Comparison Between Nominative and Locative.

the absence of the object in rank number 4. U is the marker of the Nom. case in rank number 3. Since both u and um occupy the same rank 3, the two markers must represent the case. Since they are different in shape ( $\underline{u}$  and  $\underline{\hat{u}}\underline{m}$ ) and react differently to the markers which follow them (+u+ka, but +um+ka; +u Babilim, but +um Babilim), they must represent different cases. Consequently the Loc. is not the same as the Nom.

For years I have been writing long  $\underline{\tilde{u}}$  in  $\underline{\tilde{u}}\underline{m}$  of the Loc. for no other reason than to differentiate it from um of the Nom. Now, in the light of evidence provided above in favor of the separation of the Loc. and Nom. cases on the basis of sequential reconstruction, I feel free to suggest that the two markers actually were distinguished by vocalic quantity.

Non-Akkadian evidence in favor of the long vowel  $\underline{\bar{u}}$  in  $\underline{\bar{u}}\underline{m}$  is weak. Arabic parallels with the short vowel, as in ba du, and the Ethiopic examples with the long vowel, as in gadimu, yield nothing decisive.

Neither the <u>plene</u> spellings in Semitic writings nor our conventional ways of transliterating them necessarily indicate long vowels. Cf., e.g., our way of transliterating the Hebrew <u>Mətū+Šelah</u>, with long  $\underline{\bar{u}}$ in <u>Mətū</u>+, which must represent a short <u>u</u> of the original <u>Mutu+</u> "mate of."

The Akkadian spelling conventions are of no help in settling the question of the vowel quantity in  $\underline{u}m$  or  $\underline{u}m$  because, in contrast to the phonemic vowel quantity, as in <u>rabû</u>, <u>samê</u>, morphemic vowel quantity, as in <u>kalbū</u>, <u>imhurūš(u)</u>, is almost never indicated in cuneiform writing. Still, in a few cases <u>plene</u> spellings do occur as in <u>lib-bu-ú</u> "belonging to" (as well as <u>lib-bu-ú-šu</u>, <u>li-ib-bu-uě-šu</u>), <u>ki-mu-ú</u> "in place of" (as well as <u>ki-mu-uk-ka</u>), <u>a-du-ú</u> "now then," and <u>a-hi-in-nu-ú</u> "each separately" (see von Soden, <u>GAG</u> §§ 66d and ll3h, and Akkadian dictionaries). Some of these spellings begin already in the Middle Babylonian and Middle Assyrian period, where, in contrast to the New Babylonian period, <u>plene</u> spellings indicate long vowels.

# 3.9. Markers of Mood: u // a

As here reconstructed, Semitic languages have two primary moods, indicative and subjunctive, characterized by the markers  $\underline{u}$  //  $\underline{a}$ .

The mood occurs in the fientive verb and stative (only the 3rd person). It never occurs in the imperative.

For the various aspects of vocalic incompatibility resulting from the contact between the vowel markers of the mood and those of the gender (plus number), see above under 3.5.

As described in all current (and older) grammars of Akkadian, the markers of the mood are  $\emptyset$  in the Ind., as in <u>impur</u>, and <u>u</u> in the Subj., as in imhuru.

The overt marker of the Ind. in Semitic languages other than Akkadian is <u>u</u> in Arabic, Ugaritic (Gordon, <u>UT</u> p. 71f.), and Amarna Old Canaanite (W. L. Moran, "Early Canaanite <u>Yaqtula</u>," <u>Orientalia</u> n.s. XXIX [1960] pp. 1-19, esp. p. 2 n. 2, p. 7 n. 3, and pp. 9f.). As for Amorite, <u>u</u> is found in the Ind., but only before pronominal suffixes, as in <u>Ia-ah-zi-bu-ú</u> /<u>Jā<sup>c</sup>zibu+hu</u>/ (Gelb, <u>La lingua degli</u> <u>Amoriti</u> §§ 3.1.1.2.2 and 3.3.3.1).

W. Leslau discovered recently (JNES XXVI [1967] p. 123) that in some dialects of Gurage not only the imperfect but also the perfect has two markers:  $\underline{u}$ , as in <u>säbbäro</u> "he broke," in the main perfect, and  $\underline{a}$ , as in <u>säbbärä</u> (not translated), in the subordinate perfect and the negative perfect.\* This would correspond to the  $\underline{u}$  //  $\underline{a}$ markers of the Ind. // Subj. in the Akkadian stative, a differentiation hitherto unattested in the perfect of West Semitic languages.

The overt marker of the Ind. in all dialects of Akkadian is  $\underline{\mathscr{G}}$ , as in <u>impur</u> "he received." Its reconstruction as <u>jampuru</u>, with  $\underline{u}$ , is based mainly on other Semitic languages. In addition, we can provide the following supporting evidence:

a) Since the Pl. is regularly formed by lengthening the gender vowel of the Sg., the occurrence of the Pl. imhuru and mahiru implies the existence of the Sg. imhuru and mahiru, that is, with <u>u</u> in the Ind.

b) The standard Babylonian form <u>imhurni</u> "he received me" can be best derived from the original <u>imhuruni</u>. Since the posited pronominal suffix for the lst person is <u>i</u> in Akkadian (as in Old Assyrian <u>imhuri</u> "he received me"), the suffix  $+\underline{ni}$  can be best explained as the original <u>i</u> preceded by the consonantal glide <u>n</u>

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introduced between two vowels, namely  $\underline{u}$  of the reconstructed Ind. imburu, and  $\underline{i}$  of the pronominal suffix  $\underline{i}$ . For the consonantal glide  $\underline{n}$ , see 2.2.

The overt marker of the Subj. in West Semitic languages is a. The Subj. is used in Arabic after certain conjunctions (prepositions) with verbs often expressing a wish or intention, as in <u>li+jaqtula</u> "so that he may kill," or <u>an+jaqtula</u> "that he may kill." The instances of Ugaritic Subj. in a, as interpreted by Gordon, UT p. 72 and n. 1, were considered no more than "une survivance" by A. Herdner in Syria XXIV (1944-45) p. 117. Many good occurrences in the function of a volitive expressing wish, request, or command have been noted in Amarna Old Canaanite by W. L. Moran, "Early Canaanite <u>Yaqtula</u>," Orientalia n.s. XXIX (1960) pp. 1-19. Moran, op. cit. p. 12, compares the Canaanite volitive with the Hebrew cohortative. Amorite has a morpheme a in Ia-di-ha-El /Jadi +a+ El/, which possibly may be related to the volitive of Old Canaanite. The evolution of an original Subj. into a volitive or cohortative finds support in parallel instances known from the Old Babylonian dialect at Mari, such as itti šarrim lā innamru "may he not meet with the king." See A. Finet, <u>L'Accadien des lettres de Mari</u> (Bruxelles, 1956) pp. 262f. A similar function is found in the Latin Subj. oremus, ne deleas.

Some comments are necessary about the Hebrew cohortative in  $\underline{\tilde{a}}$ , which occurs in the fientive verb, as in <u>as alleha</u> "may I send," and in the imperative, as in <u>quma</u> "stand up!" Scholars generally derive this <u>a</u> from <u>an</u> of the energic I. See, e.g., A. Ungnad, <u>Hebräische Grammatik</u> (Tübingen, 1912) p. 114 n. 1; Georg Beer and Rudolf Meyer, <u>Hebräische Grammatik</u> II (Berlin, 1955) p. 13. For

## 3.9. Markers of Mood: u // a

occurrences of the Arabic energic I an as  $\underline{a}$ , as in <u>sidriban</u> or <u>sidriba</u> "strike!," see W. Wright, <u>A Grammar of the Arabic Language</u> (3rd ed., Cambridge, 1955) pp. 61f. See also below under 4.2. The other interpretation of the Hebrew cohortative is to link it with the West Semitic Subj. in <u>a</u> (Moran, <u>op. cit.</u> p. 12). The difficulty with this interpretation is that the Hebrew cohortative, occurring as it does in both the fientive verb and imperative, cannot easily be taken to represent a primary mood (case), such as the Subj., because imperatives cannot have a primary mood. Still, the fact that several languages in the Syro-Palestinian area have a Subj. in <u>a</u> makes it plausible to assume the existence of that morpheme also in Hebrew. I conclude, therefore, that the Hebrew marker <u>ā</u> is the result of a conflation of two original markers, <u>an</u> of the energic I and <u>a</u> of the Subj.

The over-all characteristic of the West Semitic Subj. is that it is nowhere employed in its full capacity, but only in some subfunctions such as a volitive, cohortative, or the like. Even in this limited capacity the Subj. is not used rigorously, but often alternates in the same general surroundings with other moods, such as the indicative or jussive.

The marker of the Subj. in standard Akkadian is <u>u</u>, as in <u>sa</u> <u>imhuru</u> "which he received."

Over ten years ago I showed, on the basis of newly discovered texts, that the Old Akkadian dialect of the Diyala Region had a Subj. in <u>a</u>, beside the Subj. in <u>u</u> known from standard Old Akkadian and later dialects of Akkadian (Gelb, <u>Old Akkadian Inscriptions in the</u> <u>Chicago Natural History Museum.</u> Fieldiana: <u>Anthropology XLIV/2</u> [1955] p. 190). This was the evidence presented there:

a) <u>Šibūt</u>  $PN_1$  <u>bitam ana</u>  $PN_2$  <u>išduda</u> "witnesses that  $PN_1$  measured off the house for  $PN_2$ ."

b) <u>Šîbūt 1 PI še'am PN<sub>1</sub> ana PN<sub>2</sub> iddina</u> "witnesses that PN<sub>1</sub> gave
 1 PI of barley to PN<sub>2</sub>."

c) In <u>bitim ši uš-da-a-bi-la</u> "in the house in which I had . . ."

d) <u>Šu ana PN addina</u> "(various amounts of flour) which I gave to PN."

e) ŠE.HAR.AN PN<sub>1</sub> <u>šu</u> PN<sub>2</sub> in <u>ittišu</u> <u>ikšura</u> "of the HAR.AN-barley of PN<sub>1</sub> which PN<sub>2</sub> made good on time."

f) and g) Two more occurrences of verbs in <u>-a</u>, <u>ik-su-ra</u> and <u>[u]?-s[a-r]i-ba</u>, are found in broken contexts.

In addition to the reference given just above, I have discussed the Subj. in <u>a</u> also in <u>Morphology of Akkadian</u> pp. 10f. and 61, and in <u>MAD</u>  $II^2$  p. 171. Scholars expressing themselves (in a qualified fashion) in favor of my interpretation are:

Jacobsen, JNES XIX p. 110 n. 12, Moscati, ICG p. 135, and Diakonoff, SHL pp. 92 and 94.

B. Kienast, in <u>Orientalia</u> n.s. XXIX (1960) pp. 152f. n. 2, finds that my proposed interpretation of the Subj. in <u>a</u> in Old Akkadian does not fit his own interpretation of the Semitic verbal system. Consequently, he rejects the possibility of the existence of the Subj. in <u>a</u> in Old Akkadian, preferring instead to interpret all the cases listed above as the ventive without mimation. Kienast was supported in this conclusion by G. Garbini in <u>Studi orientalistici</u> ... a Francesco Gabrieli (Roma, 1964) p. 128 n. 3. The following can be said in comments to the above:

 a) Not a single instance of dropping the consonant <u>m</u> of the ventive / allative is known from Old Akkadian. Cf. <u>iddinam</u>, <u>iqîsam</u>, <u>illakam, imhurunim, lišturunim</u>, etc., in <u>MAD</u> II<sup>2</sup> p. 131 ad 1) and 2).

b) Neither the posited older ventive / allative <u>addinam</u> nor the younger <u>addina</u> are attested in any phase of the Akkadian language. While occasionally not only <u>verba movendi</u> but also other classes of verbs can employ a ventive / allative in the lst person, as in <u>ašpuram</u> "I sent" (A. Ungnad, <u>Babylonische Briefe</u> . . [Leipzig, 1914] Nos. 43:20, 59:7, 233:31), the ventive / allative <u>addina(m)</u> does not occur once among thousands of occurrences of <u>nadānum</u> in the files of the Chicago Assyrian Dictionary. It was in fact the lack of such occurrences as <u>addina</u>, <u>anaddina</u>, <u>addan</u>, and <u>anaddan</u> that enabled Thorkild Jacobsen and myself to reach independently the conclusion that the verb <u>nadānu</u> in the New Babylonian period belongs to the <u>iddin</u>, <u>inaddin</u> class, not to the <u>iddan</u>, <u>inaddan</u> class, and that such occurrences as <u>i-nam-da-aš-šu</u>, <u>a-nam-dak-ka-šu-nu-tu</u>, <u>ad-dan-ka</u>, represent contracted <u>inand##aššu</u>, <u>anand##akkašunutu</u>, <u>add##aššu</u>, and not <u>inandan</u>, <u>anandan</u>, <u>addan</u> plus the pronominal suffixes. See Gelb, <u>MAD</u> II<sup>2</sup> p. 180.

c) Under normal circumstances, <u>addina(m)</u> should not be taken as a ventive, but a simple Ind. plus the Dat. pronominal suffix +<u>a(m)</u> "to me." However, while <u>iddina(m)</u> "he gave to me" can and does occur, <u>addina(m)</u> "I gave to me" is inconceivable in administrative / legal texts.

d) The first two examples in the Diyala Region texts a) and b) cited above have the structure of a noun in Constr. St. plus the verbal clause ending in a:  $\underline{sibut}$  PN . . .  $\underline{isduda} / \underline{iddina}$ , "witnesses that PN measured off / gave . . ." That the verb ending in a in the Diyala Region texts represents a Subj. can be proved by examining the Old Akkadian texts from areas other than the Diyala

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Region. The latter have the identical structure of a noun in Constr. St. plus the verbal clause ending in the standard Subj. marker <u>u</u>. Cf., e.g., <u>šibūt</u> . . . PN . . . <u>imhaşu</u> "witnesses . . . that PN . . . struck" and <u>šibūt</u> . . . PN . . . <u>ûblu</u> "witnesses . . . that PN . . . brought," cited in <u>MAD</u> III p. 257. The structure of a noun in Constr. St. plus verb in Subj. is paralleled by the structure of a noun in Constr. St. plus a noun in Constr. St. in Old Akkadian, as in <u>šîbūt kušurrājim</u> "witnesses of the completed payment" (<u>MAD</u> III pp. 256f.). For a general statement on the structural identity of the verb in Subj. with the noun in Gen., see 3.13.

e) Having carefully reconsidered the evidence, I find that the Diyala Region verbs represent a Subj. in the oblique case of the type "of the king who received" (Gen.) or "the king who received" (Acc.), and not a Subj. in the subject case of the type "the king who received" (Nom.). This could possibly lead to the conclusion that the Gen./Acc. Subj. in <u>a</u> may have been formally different from the Nom. Subj. in <u>u</u>. There is nothing, however, in either Akkadian or other Semitic languages to favor .his possibility. Whether interpreted as a Gen./Acc. Subj. or a general Subj., the Diyala Region verbs ending in <u>a</u> are to be interpreted as a Subj. and nothing else.

The following additional evidence can be adduced in favor of the existence of the Subj. in  $\underline{a}$  in Akkadian:

a) In the common Old Akkadian construction, Sargon <u>su Enlil</u> <u>mahira la iddinusum</u> possibly to be translated as "Sargon to whom Enlil did not give one who is an adversary," the troublesome <u>mahira</u> could be explained as an ossified form of a predicate (stative) Subj. ending in -<u>a</u> (<u>MAD</u>  $II^2$  p. 152f.).\*

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b) In several Mari occurrences of <u>i-nu-ma</u> PN <u>il-li-ka</u> (<u>AEMT</u> IX 240:4; XI 207:5; 259:4, 11, 15; 260:12, 16; 265:5), the verb <u>illika</u> can be explained either as standing for the true ventive <u>illika</u> (as in <u>AEMT</u> IX 149:11) "(when PN) came" or as a Subj. in +<u>a</u> "(when PN) went." The choice of translation depends on whether one understands the issue of honey as being made to a person upon his arrival or upon his departure from Mari.

c) The statements of von Soden, <u>GAG</u> § 83a, Reiner, <u>LAA</u> § 5.4.2.3, and Ungnad-Matous, <u>GA</u> § 59c, that the Subj. does not occur in ventive / allative must be modified. First of all, there is no reason why the ventive / allative should not occur in the Subj. Secondly, the existence of such forms as <u>sa</u> <u>iddinusum</u> "which he gave to him," with the Subj. marker <u>u</u> (from <u>a</u>), leads to the conclusion that such forms as <u>sa</u> <u>iddinam</u> "which he gave to me" also contain, overtly or covertly, the marker of the Subj. I therefore interpret <u>iddinam</u> as <u>iddin+ $\mu$ + $\mu$ +</u> <u>a+am</u>, with the old Subj. marker <u>a</u>. A clear case of the Subj. is found in the unique <u>ki</u> <u>tadammiqunim</u>, in place of the expected <u>ki</u> <u>tadammiqam</u>, in Nougayrol, <u>Revue Biblique</u> LIX (1952) p. 246f., strophe 8:10. This is translated by Nougayrol as "quand tu auras recouvré la santé," by von Soden, <u>Orientalia</u> n.s. XXX (1961) p. 160, as "wenn es dir (wieder) gut geht," and by Jacobsen, <u>JNES</u> XXII (1963) p. 27, as "as you prosper for me here."

d) In the older Mari dialect, attested between the end of the Third Dynasty of Ur and the beginning of the Old Babylonian period, we find two instances of a Subj.  $jilqa^{3}+a$  in  $\underline{sa} \cdot \cdot \cdot \underline{il}-\underline{qa}-\underline{a}(\underline{E})$  and  $\underline{sa} \cdot \cdot \cdot \underline{il}-\underline{qa}-\underline{a}$  "which he took" (M. Rutten, <u>RA</u> XXXV [1938] p. 42 No. 3 and p. 43 No. 9).

e) For a secondary Subj. in a in imhuruna, see 3.11.

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# 3.10. Subjunctive in i?

Beside the two Mari forms in a just listed above under d), there are some doubtful cases of a Subj. in <u>i</u> in <u>in-TI-i</u> (op. cit. p. 42 No. 5), <u>i-ba-al-ki-ti-su</u> (p. 42 No. 6), and <u>i-la-qi-i</u> (p. 44 No. 11b). While quite uncertain in their interpretation, these Mari cases are listed here because of the possibility that the Subj. in  $\underline{i}$  also occurs in texts of later Babylonian date. Cf. <u>sa</u> . . . <u>indudi</u> "which he measured" (Kassite, unpubl.); ša . . . <u>itanappali</u> "which he will repay" (Kassite, unpubl., both refs. from Professor Gurney); sa . . . inassari "who will guard" (F. H. Weissbach, Babylonische Miscellen [Leipzig, 1903] p. 9 No. 1:5) and <u>sa</u> . . . isattari "who will write" (p. 10 iii 7; beside standard forms in u); ša ikappapi "who will bend" (O. Neugebauer, Astronomical Cuneiform Texts [Princeton, N.J., 1956] II p. 395: 15). One difficulty in suggesting the existence of the Subj. in i in these Babylonian texts is that these examples come mainly from later periods, in which the final written vowel may be irrelevant. In addition, there are occurrences of Ind. in i in texts from the Old Babylonian period on, where i often appears as a form of affectation in the speech or writing habits of women. For bibliographical information and a different interpretation, see T. Jacobsen in JNES XIX (1960) p. 111 n. 12.

For a secondary Subj. in i in imhuruni, see 3.11.

# 3.11. Secondary Subjunctive in i/a

Both vowels <u>i</u> and <u>a</u> occur in Subj. of the type <u>imburuni</u> or <u>imburuna</u>, which show a secondary <u>ni</u> or <u>na</u> added to the standard Subj. <u>imburu</u>. The latter is interpreted below under 3.12 as the nominativized form of older <u>imhura</u>. The Subj. <u>imhuruni</u> occurs in all periods of the Assyrina dialect, but also sporadically in Old Akkadian. The Subj. <u>imhuruna</u> appears in a few cases of early and classical Old Babylonian, gathered and discussed in <u>MAD</u> II<sup>2</sup> p. 170.

The Subj. <u>imhuruni/a</u> is to be explained as containing two Subj. markers, the first being <u>u</u> (from <u>a</u>) of <u>imhuru</u>, and the second the final <u>i</u> or <u>a</u>, joined to the preceding <u>u</u> by the consonantal glide <u>n</u>, on which see 2.2. For similar instances of the development of secondary (double) features, see 1.5.

The Subj. marker <u>ni</u> eventually became an enclitic occupying n rank number 5, as in <u>sa imhurūšu+ni</u>, <u>sa imhura¤+ni</u>, or even after a noun, in <u>sa qatātu¤+ni</u> "of which they are the guarantors." In such occurrences as <u>sa imhurū+šu+ni+ma</u>, the enclitic <u>ma</u> apparently occupies rank number 6.

#### 3.12. Nominativization and Parallels

While the occurring or reconstructed marker of the Subj. in older Akkadian and other Semitic languages is <u>a</u> (and possibly <u>i</u>), the marker of the Subj. in standard Akkadian (but nowhere else in Semitic languages) is <u>u</u>, as in <u>imburu</u>. This is--if I may be permitted to coin a horrible sounding term--nominativization. It is realized by the replacement of the oblique vowel <u>a</u> (and possibly <u>i</u>) of the Subj. (or Gen.) by the Nom. <u>u</u>. The term "nominativization" is different from "substantivation" (French "nominalisation," German "Nominalisierung"), which denotes the replacement of a verbal form by a nominal form.

A case of nominativization comparable with <u>imhuru</u> (from <u>imhura</u>) discussed just above is found in the rare occurrences of <u>imhurunu</u>

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(from <u>imhuruni/a</u>), best attested in New Assyrian. Cf. Gelb in <u>BO</u> XII (1955) p. 109f.

For other examples of nominativization in Akkadian, cf. <u>suati/u</u>, used for both genders and all cases (see 1.5); <u>uma?</u> <u>lā surrātum</u> "I swear that these are not lies," beside <u>uma?</u> <u>lā surrātim</u> (see below, 3.13); and standard Akkadian <u>māršiprum</u> "messenger" developed from <u>mār+šiprim</u> or <u>šamaššamnum</u> "sesame?" from \*šaman+šammim.

The Sumerian language uses the marker <u>a</u> in the Subj. of the verb, as in <u>lu e du+a</u> "the man who built the house." E. Sollberger, <u>Le système verbal</u> . . . (Genève, 1952) pp. 199f. (following A. Deimel), placed this structure under the heading "La nominalisation du complexe verbal." The same analysis is apparent in the use of the terms "die Nominalisierung" by A. Falkenstein, <u>Das Sumerische</u> (Leiden, 1959) pp. 35, 43, and 52, and "Satznominalisierungen" by B. Kienast in <u>Orientalia</u> n.s. XXIX (1960) pp. 156f.

# 3.13. Mood = Case

As shown in 3.1 and 3.2, the overt markers of case in nouns and pronouns are  $\underline{u}$  in the subject case (= Nom.), and  $\underline{a}$  or  $\underline{i}$  in the object case (= oblique case or Gen./Acc. From 3.9 - 3.11 we learned that the reconstructed markers of the mood in verbs and statives are  $\underline{u}$  in the Ind. and  $\underline{a}$  (and rarely  $\underline{i}$ ) in the Subj.

Since the markers of case and mood are identical, as is their rank number 3 in the morpheme sequence, we may draw the obvious conclusion that the case of the nouns and pronouns is structurally identical with the mood of verbs and statives. Note the supporting evidence in <u>Chart</u> <u>31</u>. The identification of the mood with the case in Semitic languages was suggested by Gelb, <u>Morphology of Akkadian</u> pp. 10f. and 61, and <u>MAD</u> II<sup>2</sup> p. 171. Other scholars expressed a similar opinion. Cf. von Soden, <u>GAG</u> § 83a: "Subjunktiv . . . der eine Art Genetivendung des Verbum finitum ist;" and similarly in § 163c: "syntaktisch sind die Nebensätze Genetive." Diakonoff, <u>SHL</u> p. 91 n. 88: "the endings of the Subjunctive, <u>-u</u>, <u>-a</u>, as shown by A. P. Riftin, originally belonged to nominal constructions." G. Beer and R. Meyer, <u>Hebräische Grammatik</u> II (Berlin, 1955) p. 147: "Der asyndetische Attributsatz (= "der sogenannte Relativsatz") steht zu seinem Beziehungswort im ideellen Gen.-Verhältnis."

Powerful support for mood = case comes from Arabic. The Arabic language uses only one term, <u>naşbun</u>, for both the Acc. of the noun and Subj. of the verb, just as it has only one term, <u>rafcun</u>, for both the Nom. and Ind. See G. Jahn, <u>Sîbawaihi's Buch über die Grammatik</u> I (Berlin, 1895) pp. lf. § 2 = M. Derenbourg, <u>Le livre de Sîbawaihi</u> I (Paris, 1881) pp. lf. Cf. also J. KuryXowicz in <u>Bulletin de la</u> <u>Société de Linguistique de Paris</u> XLV (1949) p. 53, and <u>idem, Mélanges</u> <u>Cohen</u> (soon to appear) p. 162. I acknowledge gratefully Prof. KuryXowicz' kindness in providing these references.

Relying upon a fundamental analysis of the relative phrase by E. Benveniste, "La phrase relative, problème de syntaxe générale," <u>Bulletin de la Société de Linguistique de Paris</u> LIII (1957-58) pp. 39-54, H. Fleisch pointed out in a recent article "Phrase relative en Accadien," <u>Mélanges de l'Université Saint-Joseph</u> XLII (1966) pp. 247-284, esp. p. 251, that the relative phrase behaves like an adjective in relation to the antecedent and that the relative pronoun plays the role of a determinative article. Disregarding

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Nom.Ind.Gen.Subj.
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	_				_	
kalb	+u				+m	"the dog"
jamhur		+u			+Ø	"he received"
kalb			+i		+m	"of the dog"
šu			+a			"of him"
kalbu+ky			+a			"dog of thee"
sakrān			+a <sup>1</sup>		+Ø	"of the drunk"
jamhur				+a	+Ø	"who received"
kalbum šu <sup>2</sup> šarr			+i		+m	"the dog of the king"
kalbum šu imhur				+a	+Ø	"the dog who received"
šibūt <sup>3</sup> kušurrā,			+i		+ m	"witnesses of the paymen
šîbūt iddin				+a	+Ø	"witnesses which he gave
li+Makkat			<del>+a</del>		+Ø	"to Mecca"
li+jaqtul				4 +a	+Ø	"that he kill"
ištūm <sup>5</sup> ûm			<b>+i</b>		+m	"since the day"
ištūm imhur				+a	+Ø	"since he received"
aššum <sup>6</sup> şabûm lā a	lāk		+i		+m	"that the army not go"
aššum <sup>6</sup> şabûm lā i	llak			+a	+Ø	"that the army not go"
ûma <sup>,7</sup> lā surrāt			+i		+m	"I swear that these are not lies"
ûma' lā imhur				+a	+Ø	"I swear that he did not receive"

Chart 31. Comparison Between Case and Mood.

Notes to the Chart 31:

- For the occurrence of Arabic and (partially) Ugaritic diptota with the Nom. <u>u</u>, Gen./Acc. <u>a</u>, see 3.2.
- The Old Akkadian determinative / relative pronoun <u>šu</u>, <u>ši</u>, <u>ša</u>, etc., is replaced by <u>ša</u> in later periods.
- 3. For Old Akkadian structural parallels between the noun in Constr. St. plus noun in Gen., and the noun in Constr. St. plus verb in Subj., see 3.9.
- 4. This is the standard Subj. in classical Arabic. See 3.9.
- The same formations occur with <u>adI</u>, <u>adum</u> and <u>balum</u> in Old Akkadian. See Gelb, <u>MAD</u> II<sup>2</sup> p. 144.
- The two constructions are abbreviated from the Mari examples cited in <u>MAD</u> II<sup>2</sup> p. 171.
- 7. <u>Ú-má la zu-ra-tim</u> occurs four times against the single <u>ú-má</u> <u>lá zu-ra-tum</u> in Old Akkadian texts listed in <u>MAD</u> II<sup>2</sup> p. 171. The form <u>surrātum</u> represents the nominativization of the Gen. <u>surrātim</u>, for which see 3.12.

the existence of the Subj. in <u>a</u> in Old Akkadian (see above 3.9), Père Fleisch unhesitatingly takes the <u>u</u> of standard Akkadian as the primary marker of the Subj., and the <u>a</u> of Arabic as the secondary marker (<u>op. cit</u>. p. 281; also previously in <u>Mélanges de</u> <u>l'Université Saint-Joseph</u> XXVII (1947-48) pp. 39-60, esp. pp. 57f., and in an article to appear in the <u>Brockelmann-Gedächtnisband</u>). I have, of course, no objection to the nominal analysis of a relative clause as given by Benveniste and Fleisch, as it is apparent from the interpretation of Akkadian <u>ša imhur+u</u> and Sumerian <u>lu e du+a</u> given above in 3.12. However, Père Fleisch' assumption of the primacy of the nominal analysis militates against the historical development of the Subj. indicated in the previous sections.

#### 3.14. Other Moods

Beside the two primary moods with a binary structure, in which the Ind. is contrasted with the Subj., just as the Nom. (the subject case of the noun) is contrasted with the Gen./Acc. (the object case), there are several secondary "moods" in Semitic languages variously subsumed under such headings as ventive / allative, (co)hortative / volitive, energic, jussive, and imperative. All these "moods" are discussed briefly under 3.9 and 4.2. Here I list the imperative under "moods," (like the vocative under "cases") for convenience only, since I do not understand the place of the imperative and vocative within the structural framework of the language.

#### 3.15. General Remarks on Case / Mood

In contrast to the incomplete and inadequate descriptions of gender and number in grammars of Semitic languages, the description of case is well presented in terms of overt, external characteristics. This results mainly from the fact that the markers of case, being at or near the end of a word unit, are easier to describe than the markers of gender and number, which follow immediately upon the stem. Still, the important question of the relationship of markers of case to those of gender and number has been completely misunderstood in the Semitic field.

Several rather startling conclusions about the structure of the case / mood have been presented in this chapter. The conclusion that the case of the noun is identical with the mood of the verb was reached partly on the basis of general structural considerations (3.13), but mainly on the basis of sequential reconstruction. Sequential reconstruction shows the same markers, namely  $\underline{u}$  and  $\underline{a}/\underline{i}$ , in the same rank, namely rank 3, used for both the case and mood (3.2 and 3.9 - 3.11). Thus all the current reconstructions of Semitic mood, positing  $\underline{u}$  as the primary marker of the Subj., cannot be right. The conclusion that the markers of case / mood  $\underline{u}$  and  $\underline{a}/\underline{i}$  of rank number 3 are identical with the markers of gender of rank number 1 (3.4) is again the result of sequential reconstruction. It has been suggested above (3.6) that the development of the gender and number system chronologically preceded that of the case / mood.

		STEM	GEN.	NUM.	CASE	OBJECT	ENCL.	ATTESTED
					Nom.Gen.Acc.			
Masc.Sg	.Nom.	kalb	+u	+Ø	+)á	<b>+</b> ¤	(+ma) etc.	kalbum
	Gen.	kalb	+)aí	+Ø	<b>+i</b>	+m		kalbim
	Acc.	kalb	+)aí	+Ø	+8	+2		kalbam
Pl.	Nom.	kalb	+u	+:	+)¢	+#1		kalbum
	Gen.	kalb	+)a(	+:	+i	+#í		kalbig
	Acc.	kalb	+)ú	+:	+1	+pí		kalbi
Fem.Sg.	Nom.	kalb	+a	+Ø	+t <sup>u</sup>	+10		kalbatum
	Gen.	kalb	+a	+Ø	+tj	+m		kalbatim
	Acc.	kalb	+a	+Ø	+ <sub>t</sub> a	+02		kalbatam
Pl.	Nom.	kalb	+8	+:	+ <sub>t</sub> u	+ <b>m</b>		kalbātum
	Gen.	kalb	<b>+a</b>	+:	+ <sub>t</sub> i	+m		kalbātim
	Acc.	kalb	<del>+a</del>	+:	+ <sub>t</sub> i	+ <b>n</b>		kalbātim

Chart 32. CASE, Substantive, Absolute State.

		STEM	GEN.	NUM.	CASE Nom.Gen			ENCL.	ATTESTED
Masc.Sg.1	Nom.	kalb	+u	+Ø	+)á		šarrim	(+ma) etc.	kalb(u) <sup>1</sup>
(	Gen.	kalb	+xí	+Ø	+i		šarrim		kalb(i) <sup>2</sup>
	Acc.	kalb	+xí	+Ø		+a	šarrim		kalba <sup>3</sup>
Pl.	Nom.	kalb	+u	+:	+)xí		šarrim		kalbū
I	Gen.	kalb	+xí	+:	+i		šarrim		kalbī
	Acc.	kalb	+)¢	+:		+1	šarrim		kalbi
Fem. Sg.	Nom.	kalb	+a	+Ø	+tu		šarrim		kalbat(u) <sup>1</sup>
	G <b>en.</b>	kalb	+a	+Ø	+ti		šarrim		kalbat(i) <sup>2</sup>
	Acc.	kalb	+a	+Ø		+ <sub>t</sub> a	šarrim		kalbata <sup>3</sup>
Pl.	Nom.	kalb	+a	+:	+ <sub>t</sub> u		šarrim		kalbāt(u) <sup>1</sup>
	Gen.	kalb	+a	+:	+ <sub>t</sub> i		šarrim		kalbāt(i) <sup>2</sup>
	Acc.	kalb	+a	+:	·	+ti	šarrim		kalbāt(i)

- Nom. in +<u>u</u> attested in Old Akkadian, later Akkadian poetry, and Akkadian of Ugarit.
- 2. Gen. in +i in Old Akkadian and later poetry.
- 3. Acc. in +a not attested in Akkadian.

Chart 33. CASE, Substantive, Construct State.

STEM GEN. NUM.

CASE

OBJECT ENCL. ATTESTED

					Nom.Gen.	Acc.	(Gen.)		
Sg.Masc.	Nom.	kalb	+u	+Ø	+)1		+i+a	(+ma) etc.	kalb(u)i(a) <sup>1</sup>
	Gen.	kalb	+)á	+Ø	+i		+i+a		kalbi(ia) <sup>2</sup>
	Acc.	kalb	+)⁄1	+Ø		+¢	+i+#		kalbi
Fem.	Nom.	kalb	+a	+Ø	+ <sub>t</sub> ví		+i+¢		kalbati
	Gen.	kalb	+a	+Ø	+ <sub>t</sub> i		+i+a		kalbati(ia) <sup>2</sup>
	Acc.	kalb	+a	+Ø		+ <sub>t</sub> #	+i+ <b>4</b>		kalbati
Pl.Masc	.Nom.	kalb	+u	+:	+)á		+i+a		kalbūia
	Gen.	kalb	+)á	+:	+1		+i+a		kalbiia
	Acc.	kalb	+)4	+:		+i	+i+a		kalbiia
Fem.	Nom.	kalb	+a	+:	+tu		+i+a		kalbātuia
	Gen.	kalb	+a	+:	+ti		+i+a		kalbātiia
	Acc.	kalb	+a	+:		+ti	+i+a		kalbātiia

- Standard Akkadian has <u>kalbi</u>. Dialectal Akkadian and Akkadian of Ugarit also has <u>kalbu(i)a</u>. For <u>-a-hu-i</u> on a seal, cf. <u>JCS</u> V 132 and similar forms in Barth, <u>Pronominalbildung</u> p. 38.
- 2. Old Akkadian has (ana) kalbi; later only (ana) kalbi(i)a.

Chart 34. CASE, Substantive, Pronominal Suffix, 1st Person Sg.

	STEM	GEN.	NUM.		CASE Gen.		OBJECT (Gen.)	ENCL.	ATTESTED
Masc.Sg.Nom.	kalb	+u	+Ø	+)4			+šu+#	(+ma) etc.	kalb(u)šu <sup>l</sup>
Gen.	kalb	+)¢	+Ø		+i		+su+a		kalbisu
Acc.	kalb	+)#	+Ø			+8.	+su+¢		kalb(a)šu <sup>2</sup>
Pl. Nom.	kalb	+u	+:	+)¢			+su+a		kalbūšu
Gen.	kalb	+)xí	+:		<b>+i</b>		+su+a		kalbisu
Acc.	kalb	+14	+:			<b>+i</b>	+su+#		kalbišu
Fem. Sg.Nom.	kalb	+a	+Ø	+ <sub>t</sub> u			+su+#		kalbat(u)šu <sup>1</sup>
Gen	kalb	+a	+Ø		+ <sub>t</sub> i		+su+a		kalbatisu
Acc.	kalb	+ <b>a</b>	+Ø			+ <sub>t</sub> a	+su+a		kalbat(a)šu <sup>2</sup>
Pl. Nom.	kalb	+a.	+:	+ <sub>t</sub> u			+su+s		kalbātušu <sup>1,3</sup>
Gen	, kalb	) <b>+a</b>	+:	-	+ <sub>t</sub> i		+su+s		kalbātišu <sup>3</sup>
Acc	, kalt	) <b>+a</b>	+:		•	+ <sub>t</sub> i	+su+#		kalbātišu <sup>3</sup>

1. Nom. in +u in Old Akkadian and later poetry.

- Acc. in +a attested in Old Akkadian, later poetry, and Akkadian of Ugarit.
- 3. For secondary development of  $\underline{\tilde{u}}/\underline{I}$  in <u>kalbatu</u>/<u>Isu</u> see 2.6.

Chart 35. CASE, Substantive, Pronominal Suffix, 3rd Person Sg.

	stem	GEN.	NUM.	CASE Nom.Gen.Acc.	OBJECT	ENCL.	ATTESTED
Masc.Sg.Nom.	māhir	+u	+Ø	+)⁄4	+m	(+ma) etc.	māhirum
Gen.	māhir	+)⁄ź	+Ø	+i	+m		māhirim
Acc.	māģir	+)⁄1	+Ø	+a	+m		māhiram
Pl. Nom.	māhir	+u	+:	+ <sub>t</sub> u	+m		māhirūtum <sup>l</sup>
Gen.	māhir	+u	+:	+ <sub>t</sub> i	+m		māhirūtim <sup>l</sup>
Acc.	māhir	+u	+:	+ti	+00		mähirutim
Fem. Sg.Nom.	māhir	+8	+Ø	+ <sub>t</sub> u	+m		māhir <b>s</b> tum
Gen.	māhir	+a	+Ø	+ <sub>t</sub> i	+m		māhir <b>s</b> tim
Acc.	māģir	+a	+Ø	+t <sup>a</sup>	L +m.		māhirstam
Pl. Nom.	māhir	+a	+:	+tu	+m		māhirātum
Gen.	māhir	+a	+:	+ <sub>t</sub> i	+m		māhirātim
Acc.	māhir	+a	+:	+ti	. +m.		māģirātim

 Original (<u>kalbū</u>) māhirū developed to māhirūtum</u> by analogy with (<u>kalbātum</u>) māhirātum.

Chart 36. CASE, Participle, Absolute State.

		stem	GEN.	NUM.		CASE Gen.		OBJECT (Gen.)	ENCL.	ATTESTED
Masc.Sg.N	om.	māhin	: +u	+Ø	+)zí			kaspim	(+ma) etc.	māhir(u) <sup>1</sup>
G	len.	mähii	r +)aí	+Ø		<b>+i</b>		kaspim		māhir(i) <sup>2</sup>
A	.cc.	mâhii	r +)á	+Ø			+a	kaspim		māhir# <sup>3</sup>
Pl. N	lom.	māhi	r +u	+:	+ <sub>t</sub> u			kaspim		māhirū(t)(u) <sup>1,4</sup>
G	len.	māhi	r +u	+:		+ <sub>t</sub> i		kaspim		māhirūt(i) <sup>2</sup>
A	lcc.	māhi	r +u	+:			+ti	kaspim		māhirūt(i)
Fem. Sg.N	lom.	māģi	r +a	+Ø	+ <sub>t</sub> u			kaspim		māhirst(u) <sup>1</sup>
G	len.	mähi	r +a	+Ø		+ <sub>t</sub> i		kaspim		māhirat(i) <sup>2</sup>
A	Acc.	māģi	r +a	+Ø			+ <sub>t</sub> a	kaspim		māhirāta <sup>3</sup>
Pl. N	loz.	māģi	r +a	+:	+ <sub>t</sub> u			kaspim		māhirāt(u) <sup>1,4</sup>
C	Gen.	māhi	r +a	+:		+ <sub>t</sub> i		kaspim		māhirāt(i) <sup>2</sup>
ŀ	Acc.	māhi	r +a	+:			+ti	kaspim		māhirāt(i)

1. Nom. in +u attested in late poetry.

2. Gen. in +i attested in Old Akkadian and late poetry.

3. Acc. in +a not attested in Akkadian.

4. Old Akkadian has mähiru kaspim in Masc.; therefore, presumably also \*mähira kaspim in Fem.

Chart 37. CASE, Participle, Construct State.

		STEM	GEN.	NUM.		CASE	OBJECT	ENCL.	ATTESTED
					Nom.	.Gen.Acc.	(Gen.)		
Masc.Sg.	Nom.	māģi	r +u	+ø	+)1		+su+a	(+ma) etc.	māhir(u)šu <sup>l</sup>
	Gen.	māģi	r +)4	+Ø		+i	+su+a		māhirišu
	Acc.	māhi	r +≱1	+Ø		+a	+su+a		māhir(a)šu <sup>2</sup>
Pl.	Nom.	māhi	r +u	+:	+ <sub>t</sub> u		+šu+#		māhirūt(u)šu <sup>l</sup> <sup>3</sup>
	Gen.	māhi	r +u	+:		+ <sub>t</sub> i	+su+a		māhirūtisu <sup>3</sup>
	Acc.	māhi	r +u	+:		+ <sub>t</sub> i	+su+s		māhirūtišu <sup>3</sup>
Fem. Sg.	Nom.	māhi	r +a	+Ø	+ <sub>t</sub> u		+su+a		māhir#t(u)šu <sup>l</sup>
	Gen.	māhi	r +a	+Ø		+ <sub>t</sub> i	+šu+g		māhiratišu
	Acc.	māģi	r +a	+Ø		+ <sub>t</sub> a	+šu+ <b>#</b>		māhir#t(a)ša <sup>2</sup>
Pl.	Nom.	māhi	r +a	+:	+ <sub>t</sub> u		+su+ <b>#</b>		māhirātušu <sup>1,3</sup>
	Gen.	māhi	r +a	+:		+ti	+su+s		māhirātišu <sup>3</sup>
	Acc.	māhi	r +a	+:		+ti	+su+a		māhirātišu <sup>3</sup>

1. Nom. in +u attested in late poetry.

2. Acc. in +a attested in late poetry.

3. For secondary +usu, +isu see 2.6.

Chart 38. CASE, Participle, Pronominal Suffix.

	STEM	GEN.	NUM.	CASE Nom.Gen.Acc.	OBJECT (Gen./Subj.)	ATTESTED
Sg.Masc.Nom	ç S	+u	+Ø	 +yź	kalbim <sup>1</sup>	su <sup>2</sup>
Gen.	š	+xí	+Ø	+i	kalbim	ši
Acc.	š	+)1	+ø	+a	kalbim	<b>5</b> a
Fem. Nom.	š	+a	+Ø	+_u t	kalbim	šatví
Gen.	š	+a	+Ø	+ <sub>t</sub> i	kalbim	šati
Acc.	5	+a	+Ø	+ <sub>t</sub> a	kalbim	*sata
Pl.Masc.Nom.	š	+u	+:	+z u	kalbim	sūte
Gen.	š	+u	+:	+ <sub>t</sub> i	kalbim	šūti
Acc.	8	+u	+:	+ti	kalbim	sūtį
Fem. Nom.	š	+a	+:	+t <sup>u</sup>	kalbim	šātu
Gen.	š	+a	+:	+ti	kalbim	*šāti
Acc.	<b>\$</b>	+a	+:	+ <sub>t</sub> i	kalbim	šātž

1. And older <u>su</u> imhura, later <u>sa</u> imhuru, "he who received," etc.

The full declension of this pronoun exists only in the Sargonic period; see <u>MAD</u> II<sup>2</sup> pp.133f. The full reconstruction of the cases is based on Arabic Sg. Masc. <u>dū</u>, <u>dī</u>, <u>dā</u>, Fem. <u>dātu</u>, <u>dāti</u>, <u>dāta</u>, Pl. Masc. <u>dawū</u>, <u>dawī</u>, Fem. <u>dawātu</u>, <u>dawāti</u>.

Chart 39. CASE, Pronoun, Determinative.

	STEM	GEN.	NUM.	CASE	OBJ.	ATTESTED
				Nom. Gen. Dat.		
Masc./Fem.Sg.Nom.	('an+)'a+k			+u		<sup>3</sup> anāku <sup>1</sup>
Gen./Acc.	i			+a		iati <sup>2</sup>
Dat.				+a		iašim
Pl. Nom.	('an+)na?			+nu		( ºa)nahna/u ( ºa)ninu
Gen./Acc.	ni			+a		niati
Dat.	ni			+a		niašim

- Nom. <u>Janaku</u> of Pers. Pron. I was replaced by <u>i</u> of Pers. Pron. II in obl. case. The latter occurs also in the Poss. Pron. <u>iaum</u> "my."
- 2. For secondary +ti and +sim see 3.7.
- 3. The reconstruction of <u>na</u> is questionable. This pronoun appears as <u>('a)ninu</u> in Akkadian and <u>('a)nahna/u</u> in other Semitic languages. Pl. suffix <u>-nu</u> was borrowed from <u>'antunu</u>, <u>sunu</u>, etc. Nom. <u>'aninu</u> of Pers. Pron. I was replaced by <u>ni</u> of Pers. Pron. II in coll. case. The latter occurs in the Poss. Pron. <u>niaum</u> "our."

Chart 40. CASE, Pronoun, Personal, 1st Person.

	STEM	GEN.	NUM.	Nor	CASE Gen.Dat.	OBJ.	ATTESTED
Sg.Masc.Nom.	(°an+)t	+u	+Ø	+#			a Panty
Gen./Acc.	k	+u	+Ø		+a		kuati <sup>2</sup>
Dat.	k	+u	+Ø		+a		kuašim
Fem. Nom.	('an+)t	+i	+Ø	+)á			°anti
Gen./Acc.	k	+i	+Ø		+a		kiati
Dat.	k	<b>+i</b>	+Ø		+a		kiašim
Pl.Masc.Nom.	('an+)t	+u	+_u	+)a			Pantunu
Gen./Acc.	k	+u	+_u		+a		kunuati
Dat.	k	+u	+ u		+#		kunussim
Fem. Nom.	('an+)t	+i	+ni	+)¢			a °antin <b>ž</b>
Gen./Acc.	k	+i	+_i		+a		ki <b>nž</b> ati
Dat.	k	+i	+ <sub>n</sub> i		+8.		kinjašim

- U of <u>antu</u> is reconstructed from the Pl. <u>antunu</u>. Nom. <u>antu</u> of Pers. Pron. I was replaced by <u>ku</u>, etc., of Pers. Pron I in obl. case. The latter occurs in the Poss. Pron. <u>kuaum</u>, <u>kuaum</u>, <u>kunuaum</u>, and <u>kinaum</u>.
- 2. For secondary  $+\underline{ti}$  and  $+\underline{sim}$  see 3.7.

Chart 41. CASE, Pronoun, Personal, 2nd Person.

	STEM	GEN.	NUM.		CASE		OBJ.	ATTESTED
				Nor	Gen.	Dat.		
Sg.Masc.Nom.	š	+u	+Ø	+)á				šul
Gen./Acc.	s	+u	+Ø		+a			sua(ti) <sup>2</sup>
Dat.	ŝ	+u	+Ø			+a		suasim <sup>3</sup>
Fem. Nom.	š	+i	+Ø	+)á				ši
Gen./Acc.	š	+i	+Ø		+a			šiati
Dat.	ŝ	+1	+Ø			+a		šiašim
Pl.Masc.Nom.	š	+u	+_u	+)1				šunu
Gen./Acc.	š	+u	+_u		+#			sunuati <sup>4</sup>
Dat.	8	+u	+_u			+¢		sunudsim
Fem. Nom.	s	+i	+ni	+)1				a šinž
Gen./Acc.	š	+i	+ <sub>n</sub> i		+a			sin <b>ž</b> ati
Dat.	š	+i	+ni			+a		šinžašim

- Pers. Pron. <u>šu</u>, <u>ši</u>, <u>šunu</u>, and <u>šina</u> occur also in the Poss. Pron. <u>šuaum</u>, <u>šiaum</u>, <u>šunuaum</u>, and <u>\*šinaum</u>.
- The form <u>sua</u> is attested for both the Gen. and Acc. in Old Akkadian. For secondary +<u>ti</u> and +<u>sim</u> see 3.7.
- 3. Also suas in Old Akkadian.
- 4. Also suniti in Old Akkadian and Old Assyrian.

Chart 42. CASE, Pronoun, Personal, 3rd Person.

1	2	5

	"STEM"	GEN.	NUM.	C <i>l</i> Gen,I	ASE Dat.	Acc.	OBJ.	ENCL.	ATTESTED
Sg.Masc/Fem.Gen.	kalbu+i			+a				(+ma) etc.	kalb(u)i(a) <sup>l</sup>
Dat.	jamhury(+i				+8.				imhuri/am <sup>2</sup>
Acc.	jamhur <b>v</b> +i					+#			imhur(n)i <sup>3</sup>
Pl.Masc/Fem.Gen.	kalbu+ni			+a					kalbuni/a <sup>4</sup>
Dat.	jamhury(+n:	i			+a				imhurniasim <sup>5</sup>
Acc.	jamhury+n:	1				+a			imhurniati

- 1. Standard Akkadian has kalbi. Dialectal Akkadian and Akkadian of Ugarit also has <u>kalbu(i)a</u>. For -a-hu-i on a seal, cf. JCS V 132 and similar forms in Barth, Pronominalbildung p. 38.
- Reconstructed Ind. jamhur#+#+a+m results in standard imhuram, once 2. imhurim (TCL XXIII 96:7, Mari) from jamhur#+i+#+m.
- Reconstructed Ind. jamhuru+ i+# results in standard imhurni, but 3. imhuri in Old Assyrian.
- 4. Reconstructed kalbu+ni+g results in standard kalbuni, but also kalbuna, from kalbu+nZ+a, in Old Akkadian.
- 5. Also +<u>niaš</u> in Old Akkadian.

Chart 43. CASE, Pronoun, Suffixal, 1st Person After Noun and Verb in Sg.

•••••	"STEM"	GEN.	NUM.	CASE Gen.Dat.Acc.	OBJ.	ENCL.	ATTESTED
Sg.Masc/Fem.Gen.	kalbū+i			+a		(+ma) etc.	kalbūia
Dat.	jamhurū+	i		+#		••••	imhurūnim <sup>1</sup>
Acc.	jamhurū+ i	i		+#			imhurūni
Pl.Masc/Fem.Gen.	kalbū+ni			+#			kalbūni
Dat.	jamhurū+n:	i		+a			imhurūniašim
Acc.	jamhuru+n:	i		+a			imhuruniati

1. From jamhuru+ i+z+m.

Chart 44. CASE, Pronoun, Suffixal, 1st Person After Noun and Verb in Pl. STEM GEN. NUM. CASE

					Gen	.Dat.	Acc.	 	
Sg.Masc.	Gen.	+k	+) <b>1</b>	+Ø	+8			 (+ma) etc.	kalbu+kal
	Dat.	+k	+u	+Ø		+#			imhur+kum
	Acc.	+k	+)á	+Ø			+a		imhur+ka
Fem.	Gen.	+k	+i	+Ø	+#				kalbu+ki
	Dat.	+k	+i	+Ø		+#			imhur+kim
	Acc.	+k	+i	+Ø			+#		imhur+ki
Pl.Masc.	Gen.	+k	+u	+nu	+#				kalbu+kunu
	Dat.	+k	+u	+nu		+#			imhur+kunušim
	Acc.	+k	+u	+_u			+#		imhur+kunu(ti)
Fem.	Gen.	+k	+i	+ <sub>n</sub> ≭	+a				kalbu+kina
	Dat.	+k	+i	+ <sub>n</sub> ≭		+a			imhur+kinašim
	Acc.	+k	<b>+i</b>	+ <sub>n</sub> ž			+a		imhur+kina(ti)

1. No difference in the form of the pronoun, whether the previous noun or verb is in Sg. or Pl.

Chart 45. CASE, Pronoun, Suffixal, 2nd Person.

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OBJ. ENCL. ATTESTED

		STEM	GEN.	NUM.		CASE	2	OBJ.	ENCL.	ATTESTED
					Gen	.Dat.	Acc.			
Sg.Masc.	Gen.	+š	+u	+Ø	+øĹ				(+ma) etc.	kalbu+šu <sup>1</sup>
	Dat.	+š	+u	+Ø		+#				imhur+šum
	Acc.	+8	+u	+Ø			+a			imhur+šu <sup>2</sup>
Fem.	Gen.	+š	+i	+Ø	+8					kalbu+ši/a <sup>3</sup>
	Dat.	+š	+i	+Ø		+#				inhur+šim
	Acc.	+š	+1	+Ø			+a			imhur+ši/a
Pl.Masc	.Gen.	+š	+u	+ u	+a					kalbu+šunu/i/a <sup>5</sup>
	Dat.	+š	+u	+_u		+#				imhur+šunu/išim <sup>6</sup>
	Acc.	, +s	+u	+_u			+a			imhur+sunu/i(ti) <sup>7</sup>
Fem.	Gen	+š	+1	+ <sub>n</sub> ž	+a					kalbu+šina
	Dat	. +š	+i	+ <sub>n</sub> ž		+a				imhur+sinašim
	Acc	. +š	+i	+ <sub>n</sub> ≭			+a	<b></b>		imhur+šina(ti)

- 1. No difference in the form of the pronoun, whether the previous noun or verb is in Sg. or Pl.
- 2. But also +sa+ in standard Akkadian ju+sa+mhir.
- <u>Kalbu+ša</u> in standard Akkadian; sporadically <u>kalbu+ši</u> in Old Akkadian and Old Babylonian (<u>MAD</u> II<sup>2</sup> p. 129); also Akkadian of Ugarit.
- 4. Imhur+sa occurs several times in Akkadian of Ugarit.
- 5. <u>Kalbu+šunu</u> in standard Akkadian; <u>kalbu+šuni</u>, <u>kalbu+šuna</u> also in Old Akkadian.
- 6. <u>Imhur+šunušim</u> in standard Akkadian; once <u>imhur+šunišim</u> in Old Akkadian.
- 7. Imhur+šunuti in Old Babylonian; imhur+šunu in Old Assyrian; imhur+šunu, imhur+šuni, and imhur+šuniti in Old Akkadian.

Chart 46. CASE, Pronoun, Suffixal, 3rd Person.

"STEM" GEN. NUM. MOOD OBJ. ENCL. ATTESTED Ind.Subj.

						_	and the second se		
°amhurµ	(+ma) etc.	+Ø		+)4	+ø	+u	°a+mhur	em.Ind	Sg.lst Masc/Fe
u 'amhura		+Ø	+a		+Ø	+)aí	°a+mhur	Subj.	
tamhuru		+Ø		+)¢	+Ø	+u	ta+mhur	Ind.	2nd Masc.
u tamhura		+Ø	+a		+Ø	+)a	ta+mhur	Subj.	
tamhuri		+Ø		+)¢	+ø	+a	ta+mhur	Ind.	Fem.
tamhuri		+Ø	+#		+Ø	+a	ta+mhur	Subj.	
jamhuryí u		+Ø		+)4	+Ø	+u	ja+mhur	Ind.	3rd Masc.
jamhura		+ø	+a		+Ø	+)¢ĺ	ja+mhur	Subj.	
t pl jamhurg t u		+Ø		+)1	+Ø	+a	ja+mhur	Ind.	Fem.
jamhura		+Ø	+a		+Ø	+a	ja+mhur	Subj.	
namhury u		+Ø		+)¢(	+Ø	+u	na+mhur	em.Ind.	Pl.1st Masc./Fe
namhura		+Ø	+a		+Ø	+)zí	na+mhur	Subj.	
tamhurū		+Ø		+)¢	+:	+u	ta+mhur	Ind.	2nd Masc.
tamhurū		+Ø	+ø		+:	+u	ta+mhur	Subj.	
tamhurā		+Ø		+)4	+:	+a	ta+mhur	Ind.	Fem.
tamhurā		+Ø	+ <b>#</b>		+:	+a	ta+mhur	Subj.	
jamhurū		+Ø		+)á	+:	+u	ja+mhur	Ind.	3rd Masc.
jamhurū		+Ø	+ø		+:	+u	ja+mhur	Subj.	
jamhurā		+Ø		+)aí	+;	+a	ja+mhur	Ind.	Fem.
jamhurā		+Ø	+ <b>#</b>		+:	+a	j <b>a</b> +mhur	Subj.	

Chart 47. MOOD, Verb.

		"STEM"	GEN.	NUM.	MOOD Ind.Subj.	OBJ.	ATTESTED
Sg.lst Masc/Fem.	Ind.	mahir+2ak			+u	+Ø	mahtrāku
	Subj.	mahir+°ak			+#	+Ø	mahiraku
2nd Masc.	Ind.	mahir+t	+u	+ø	+)4		a mahjirātyi
	Subj.	mahir+t	+u	+Ø	+#		a mahirati
Fem.	Ind.	mahir+t	+i	+Ø	+)ź		mahźrāti
	Subj.	mahir+t	+i	+Ø	+#		mahirati
3rd Masc.	Ind.	mahir+j	+u	+Ø	+)4	+Ø	mahiry
	Subj.	mahir+j	+)1	+Ø	+a	+¢	mahjira
Fem.	Ind.	mahir+j	+a	+Ø	+)4	+ø	mahjira(t)
	Subj.	mahir+j	+a	+Ø	+#	+Ø	mahira(t)
Pl.1st Masc/Fem.	Ind.	mahir+na			+)⁄	?	u mahjrans
	Subj.	mahir+na		900 V.P	+#	?	u mahirana
2nd Masc.	Ind.	mahir+t	+u	+,,u	+xí		mahjiratunu
	Subj.	mahir+t	+u	 +_u	+ <b>#</b>		mahźrātunu
Fem.	Ind.	mahir+t	+i	+"i	+)1		a mahjiratinji
	Subj.	mahir+t	+1	+_i	+#		a mahirātini
3rd Masc.	Ind.	mahir+j	+u	+:	+) <b>ź</b>	+Ø	mahiru
		mahir+j		+:	+#	+Ø	mahtrū
Fen.	Ind.	mahir+j	+a	+:	+)£	+Ø	mahirā
		mahir+j			+ <b>p</b> (		

Chart 48. MOOD, Stative.

# OBJECT

# 4.1. Definition of the Object

The rank number 4 after the stem is occupied by the object, which follows the markers of gender, number, and case / mood in ranks 1, 2, and 3, respectively.

<u>Chart 49</u> illustrates the object as used in the Gen. (or Subj.), Dat., and Acc. in Akkadian.

Notes to Chart 49:

Noun includes here the substantive and participle; verb includes here the fientive verb, partially also the imperative and stative.

Nouns and determinative pronouns are followed by the object, which can be represented by a noun or personal pronoun in Gen., or by a verb in Subj.; absence of the object is indicated by <u>m</u> in the noun. Verbs are followed by a noun or personal pronoun in Dat. or Acc.; absence of the object is indicated by  $\underline{\emptyset}$  in the verb. Statives behave normally like verbs. Personal pronouns are never followed by an object; see 4.3.

The Akkadian verb shows two syntactical constructions in connection with the object. One construction has the verb followed by the object in the form of a pronominal suffix, as in <u>impur+sum</u> or <u>impur+su</u>. In all other cases, the verb follows the object. This latter construction is attested in all periods and areas of Akkadian. With other scholars I assume that the posited common Semitic sequence verb plus object must have applied originally also to Akkadian, and the

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SUBJECT		OBJECT		TRANSLATION
	Gen/Subj.	Dat.	Acc.	
kalbu	šarrim			"dog of the king"
kalbu	šarrišu			"dog of his king"
kalbu	+šu			"his dog"
kalbu	+ <b>m</b>			"dog"
kalbu	u jamhura			"dog who received"
su	šarrim			"he of the king"
su	sarrisu			"he of his king"
šu	u jamhura			"he who received"
jamhury		šarriš		"he rec'd for the king"
jamhuryí		ana šarrim		"he rec'd for the king"
jamhuryí		sarrissu		"he rec'd for his king"
jamhury		ana šarrišu		"he rec'd for his king"
jamhurní		šuaš		"he rec'd for him"
jamhurmí		ana suasim		"he rec'd for him"
jamhuryí		+sum		"he rec'd for him"
jamhuryl			sarram	"he rec'd the king"
jamhurní			šarrašu	"he rec'd his king"
jamhurmí			+šu	"he rec'd him"
jamhury(			+Ø	"he rec'd"

Chart 49. Case / Mood of the Object.

historically attested sequence object in Acc. (or Dat.) plus verb is due to the Sumerian influence. The posited verb plus object order is supported by the subject plus object order in Akkadian, as in <u>beli</u> <u>sumi izzakar</u> "my lord has named my name" (von Soden, <u>GAG</u> § 130f); in Proto-Semitic, as in <u>ju+ša+mhir+u</u> "he (here; <u>ju</u> in Nom.) caused him (there; <u>ša</u> in Acc.) to be received" (see 8.1), and generally in West Semitic languages.

The prepositional phrases with <u>ana</u> (and the like) are presumably late. Thus <u>sarris</u> "to the king" may be older than <u>ana sarrim</u>. Similarly <u>sarrissu</u> "to his king" may be older than <u>ana sarrisu</u>, and <u>suas</u> "to him" may be older than <u>ana suasim</u>.

The object may be as short as a pronominal suffix or mimation (or nunation); it may be a noun or a verb with or without a pronominal suffix; or it may consist of linguistic segments longer than what we normally understand as a "word."

As shown in <u>Chart 50</u>, just as the first linguistic segment consists of a subject and object I, so object I in turn consists of a subject and object II. Object II in turn can be subdivided into subject and object III, and so on with longer linguistic segments. Each object, primary or secondary, is a linguistic segment which consists of the stem, gender, number, case (or mood), and object.

In discussing such linguistic segments as <u>kalbum</u>, <u>kalbušu</u>, <u>kalbu wardim</u>, <u>kalbu wardišu</u>, <u>kalbu wardi šarrišu</u>, I have intentionally avoided using the term "word." This is simply due to my inability to define it. I find Bloomfield's definition of "word" as "a minimum free form" (in <u>Language</u> II [1926] p. 156) or "the

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SUBJEC	T			OBJECT 1	Ξ					
kalbu				+122						
STEM	GENDER	NUMBER	CASE	OBJECT I	C					
kalb	+u	+Ø	+)	+m						
kalbu				+šu						
					STEM	GENDER	NUMBER	CASE	OBJECT 1	II
					+6	+u	+Ø	+#		
kalbu				wardim	_					
				OBJECT	I					
kalb	+u	+Ø	+)¢	wardim						
					STEM	GENDER	NUMBER	CASE	OBJECT	II
					ward	+)1	+Ø	+i	+m	
kalbu	ı			wardi+	šu					
					STEM	GENDER	NUMBER	CASE	OBJECT	111
					+8	+u	+Ø	+ <b>#</b>		
kalb	u			wardi	šarr	i+šu				
					STEM	GENDER	NUMBER	CASE	OBJECT	IV
					šarr	+)¢	+Ø	+i	+šu	
					_					

Chart 50. Types of Objects.

minimum of free form" (in his Language [New York, 1933] p. 178) unsatisfactory; "minimum" makes no sense, and "word" is tautological with "free form." Writing conventions, considerations of stress units, and meanings of the words for "word" in the native language are of some help, but cannot be considered as sufficient criteria for defining words. For a recent attempt to define the term "word" ("parola") in Semitic languages, see P. Fronzaroli in <u>Accademia Nazionale dei Lincei, Rendiconti della Classe di Scienze</u> morali, storiche e filologiche, serie VIII, vol. XXI (1966) pp. 210-223, esp. pp. 220ff. Note also the following statement by a structural linguist: "Yet no generally accepted and satisfactory definition exists, and some linguists deny any validity to the word as a unit, relegating it to folk linguistics" (Joseph H. Greenberg, Essays in Linguistics [Chicago, 1963] p. 27).

# 4.2. Pronominal Suffixes

<u>Charts 53-64</u> present the object in the form of pronominal suffixes in standard Akkadian. For exact morphemic interpretations, see Charts 43-46 on pronominal suffixes under 3. CASE.

The following notes illustrate the distribution and usage of the pronominal suffixes in Akkadian and other Semitic languages.

The object in Gen. (<u>Charts 53-54</u>) occurs in Akkadian and all other Semitic languages only with the noun, as in <u>kalbuka</u> "thy dog" or <u>kalbūka</u> "thy dogs."

The object in Dat. (<u>Charts 55-58</u>) appears only in Akkadian and only in the verb. The simple Dat. I (<u>Charts 55-56</u>) occurs in <u>iddinam</u> "he gave to me," <u>iddinunim</u> "they gave to me," <u>illikam</u> "he went to me," <u>illikunim</u> "they went to me."

#### 4. OBJECT

The Dat. pronominal suffixes for the 1st person gradually came to be used in the sense of a <u>dativus commodi</u> or <u>dativus ethicus</u>, especially in the verbs of movement, which are most susceptible of this development. Thus <u>allikam</u> "I went for me" can be perfectly paralleled by the French je m'en vais, the Italian <u>me ne vado</u>, and even by the medieval <u>vadent se</u>, <u>vadant sibi</u>, <u>sedete vobis</u> (discussed in Einar Löfstedt, <u>Philologischer Kommentar zur Peregrinatio Aetheriae</u> [Uppsala, 1911] pp. 140f., ref. from Miss Erica Reiner). Also the extension of the use of the 1st person <u>sem</u> of <u>allikam</u> to cover the 2nd and 3rd persons in <u>tallikam</u>, <u>illikam</u>, etc., can be paralleled in other languages, as in Slavonic, in which <u>se</u>, originally only the 3rd person, is used for all persons and numbers. See discussion by Gelb in <u>BO</u> XII (1955) p. 109b.

The gradual evolution of the meaning "I went for me" to "I came" in verbs of movement is reflected in the origin of a mood called ventive in Akkadian. See the fundamental study by B. Landsberger, "Der Ventiv des Akkadischen," ZA XXXV (1924) pp. 113-123. This is the mood called "allative" by other scholars, such as Ungnad in his grammar and Gelb, <u>BO</u> XII p. 109b. From verbs of movement the use of the allative was gradually extended to verbs of other categories, where it has a vague and ill-defined force of a <u>dativus ethicus</u>. The formal use of this Dat. II is illustrated in Charts 57-58 and 63-64.

The <u>m</u> of the Dat. II is regularly assimilated to the following s consonant, as in <u>imhuran+su</u> "he received him," <u>imhuran+ka</u> "he received thee." Very rarely <u>m</u> is preserved, as in <u>i-ra-di-a-am-ku-nu-ti</u> "he will bring to you" (Sidney Smith, <u>Cuneiform Texts from Cappadocian</u> <u>Tablets</u> . . . II [London, 1924] 4b No. 9); <u>at-tar-da-[a]k-kum-su-nu-ti</u> "I sent them to thee" (Otto Schroeder, <u>Vorderasiatische Schriftdenkmäler</u>

.... XVI [Leipzig, 1917] 71:9). The reading <u>is-ba-tu-nim-šu</u> (H. F. Lutz, <u>Yale Oriental Series</u> II [New Haven, 1917] 1:20) in B. Landsberger, <u>ZA</u> XXXV (1924) p. 120, is to be corrected to iz-zu-úh-ma (collated).<sup>\*</sup>

In place of the Akkadian allative / ventive <u>am</u>, Arabic and apparently also Ugaritic have a mood called energic I, characterized by the marker <u>an</u>, which appears both in the fientive verb and imperative. For the possibility of linking the Hebrew cohortative, as in <u>>assallaha</u> "may I send" or <u>quma</u> "stand up!", with the energic I, see above under 3.9. The marker <u>na</u> of <u>an+na</u> in the energic II of Hebrew and Arabic is of unknown origin and irrelevant in the present context.

The combination <u>am+ni</u> of the Akkadian Acc. II (<u>Chart 61</u>) corresponds to the combination <u>an+ni</u>, that is, energic I plus pronominal suffix, of Hebrew and Arabic. Thus Akkadian <u>imhuragini</u> "he received me" finds perfect correspondence in Hebrew <u>jəkabbədanni</u> "he shall honor me" or in Arabic <u>falā tahrimanni</u> "do not refuse me!"

The object in Acc. (<u>Charts 59-62</u>) is used in all Semitic languages only in the verb, as in <u>imhurni</u> "he received me," imhuruni "they received me."

Characteristic of Akkadian is the combination of the prok š nominal suffixes Dat. II plus Acc. I, as in <u>atrudankumšu</u> "I sent him to thee." Apparently the only forms occurring are +<u>am</u>+, plus the Dat. pronominal suffix +<u>kum</u>+ (presumably also Fem. +<u>kim</u>+), plus the Acc. pronominal suffixes +<u>šu</u> and +<u>šunu(ti)</u> (presumably also Fem. +<u>ša</u> and +<u>šina(ti)</u>). The case of <u>imhuraššu</u> (and amhuraššu, etc.) in <u>Charts 61</u> and <u>63</u> requires a careful study.\*

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In place of the Akkadian Dat. II + Acc. I construction, we find in other Semitic languages the Acc. I + Acc. I construction, as in Arabic 'a 'tajtu+ka+hu "I gave it to thee."

4.3. Mimation

<u>Chart 51</u> illustrates the main points of the distributional pattern of mimation in Akkadian.

From the comparison of <u>kalbu</u> <u>sarrim</u> and <u>kalbu+su</u> with <u>kalbu+m</u> it is clear that rank number 4 after the stem, occupied by the object in the form of <u>sarrim</u> or +<u>su</u>, is also occupied by +<u>m</u> of the mimation. Thus <u>m</u> appears to be the signal marking the absence of the object.

The comparison of jamhura sarram and jamhura+su with jamhura yields the same results. However, the verb jamhura has no overt mimation, but a g marker to denote the absence of the object.

The structure of the pronouns is different. There is a Constr. St. of the determinative pronoun in <u>su</u> <u>sarrim</u>, parallel to <u>kalbu</u> <u>sarrim</u>, but there can be neither a pronominal suffix nor mimation following the pronoun. The personal pronouns, either independent or suffixal, never take an object and consequently never carry mimation. Since the structure of the pronouns generally does not allow the use of the object, it is impossible to indicate the absence of the object by a  $\emptyset$  mark.

The consonant <u>m</u> of <u>u</u>m is not mimation since it forms an organic part of <u>u</u>m, which marks the Loc. case in rank number 3, not 4. Cf. the Loc. <u>girb+x+y+um+ka</u> > <u>girbukka</u> "in your midst," parallel to the Dat. case <u>girb+x+y+is+ka</u> > <u>girbukka</u> "to your middle."

The consonant <u>m</u> of the Dat. and Acc. cases of the personal pronoun, both independent and suffixal, is to be considered equally

"STEM"	GEN.	NUM.	CASE MOOD	OBJECT	ENCL.	ATTESTED
kalb	+u	+Ø	+)2	šarrim	(+ma) etc.	kalbu šarrim
kalb	+u	+Ø	+)2	+su		kalbušu
kalb	+u	+Ø	+)á	+m.		kalbum
jamhur	+u	+Ø	+ <b>y</b> á	šarram		jamhurn sarram
jamhur	+u	+Ø	+)4	+šu		jamhurpíšu
jamhur	+u	+Ø	+)1	+Ø		jamhury
š	+u	+Ø	+)4	šarrim		šu šarrim
Š	+u	+Ø	+)1			šu (no Pron. Suff.)
Š	+u	+Ø	+)4			šu (no mimation)
kalbu šarr	+)4	+Ø	+i	+n.		kalbu šarrim
kalbu						kalbušu
ě	+u	+Ø	+#			
kalbu						kalbu jamhura
jamhur	+)(	+Ø	u +a	+Ø		
kalbu						kalbu jamhurasu
jamhur	+)#	+Ø	+8 +8	+šu		

Chart 51. Structure of Mimation.

140		4	ł.	OBJECT		
outside of	the mimati	.on. See 3	5.7.	Examples are	<u>šuašim</u> ,	iddin+niašim,
iddin+kum,	iddin+am,	iddin+an+k	<u>.um</u> 1	, iddinū+nid+kur	, <u>iddin</u>	+an+ka,
iddinū+nim	ka, iddin-		, et	tc.		

The formal aspect of the distribution of mimation and numation in Semitic languages is shown in Chart 52. We shall consider first the noun and then the verb.

Overtly or covertly, the Sg. of the noun has mimation in all Semitic languages, with the exception of Arabic which has nunation.

Based on parallels in Akkadian, as in biltim > biltin, annutim > annûtin, annijâtim > annijâtin, and in Indo-European languages, as in Latin donum, Greek doron, English bosom, German Busen, I suggested in Morphology of Akkadian p. 9 that the phonetic change m > n is more likely than n > m, and consequently that mimation is older than nunation.

The Pl. and Du. of the noun have mimation or nunation, with the variation <u>m/n</u> occurring freely even within the same dialectal area, as marked by vertical lines in Chart 52.

An important feature of the Pl. of the noun is the existence of ma in Ugaritic and Old Canaanite, and of <u>na</u> in Ugaritic and Arabic.

In several West Semitic languages the fientive verb and the imperative have <u>na</u> or <u>n</u> in the Pl. and ni in the Du, which follow not only the long  $\underline{\tilde{u}}$  and  $\underline{\tilde{a}}$  of the Pl. and Du., but also the (secondarily) long i of the Fem. Sg. Only South Arabic apparently has n following a short vowel (<u>u</u>) of the Masc. Sg. See Maria Höfner, <u>Altsüdarabische</u> Grammatik (Leipzig, 1943) p. 71. In A. F. L. Beeston, A Descriptive Grammar of Epigraphic South Arabian (London, 1962) p. 23, the interpretation of the written South Arabic n, either as an of the North Arabic energic or <u>na</u> of the indicative, is not clear.

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	NC	UN			VERB	
	Sg.	Pl.	Du.	Sg.	Pl.	Du.
Akkadian	kalbum	kalbunní	kalbân	jamhury	jamhuru	jamhurā
Ugaritic	-	Paširūma Paširīma Paširīma Didalūma Didalūna	KLBM	TQTLN	JQTLN	JQTLN
Old Canaan. (EA)	-	ຮັລຫນິຫລ ຣນິຣໂຫລ	Nahrima Nahrina	jaqtulu	jaqtulüna	?
Hebrew	kalbuná	sûsim (Mêša¢ +n)	(Mêšac +n)	taqtulin#	jaqtulund taqtuldna	
Syriac	kalbu	kalbin	kalbain	taqtuling	jaqtulüna	
South Arabic	KLBM	KLBN	KLBN	JQTLN TQTLN	JQTLN	JQTLN
Arabic	q <b>aşş</b> âbun	qaşşabûna	qaşşābāni	taqtulina	jaqtulüna	jaqtulāni

Chart 52. Mimation and Nunation in Semitic Languages.

# 4. OBJECT

Two important questions concern, first, the interpretation of <u>a</u> in <u>ma</u> and <u>na</u> of the Pl. and Du. in the noun; and, secondly, the relation of <u>na</u> and <u>n</u> of the Pl. and Du. in the verb to the mimation and nunation of the noun.

In relation to the origin of <u>a</u> in <u>ma</u> and <u>na</u> of the Pl. and Du. in the noun, two possible interpretations can be offered.

One interpretation, which I held for many years, was that forms without <u>a</u>, namely <u>kalbūm</u> (or <u>kalbūn</u> and Du. <u>kalbām</u>, <u>kalbān</u>), were original in Proto-Semitic, but that they were extended in West Semitic by the addition of <u>a</u> (or <u>i</u>), becoming <u>kalbūma</u> (or <u>kalbūna</u>) and Du. <u>kalbāmi</u>, <u>kalbāni</u>), because of the aversion of certain West Semitic languages to stressed long vowels in a closed position. For Arabic, cf., e.g., Fleisch, <u>L'Arabe classique</u> pp. 17 and 84, and <u>idem</u>, <u>Traité</u> I p. 164. For secondary dissimilation in Du. <u>\*kalbāma</u>, <u>\*kalbāna</u> to <u>kalbāmi</u>, kalbāni, see 2.3.

The second interpretation, which I now definitely favor, is that <u>a</u> of <u>ma</u> in <u>kalbūma</u>, etc., is not secondary, but original. <u>A</u> <u>priori</u>, the temporal precedence of <u>ma</u> over <u>m</u> is indicated by the existence of <u>sûsima</u> with <u>a</u>, in Old Canaanite, but <u>sûsim</u> in (later) Hebrew. For other evidence in favor of the antiquity of <u>ma</u>, see below.

In taking <u>a</u> of <u>ma</u> as primary, we can justify the preservation of <u>a</u> after a long vowel in Pl. and Du., but its loss after a short vowel in Sg., by the aversion of some West Semitic languages to stressed long vowels in a closed position noted just above.

The answer to the question as to whether <u>na</u> and <u>n</u> in the Pl. and Du. of the verb are related to the mimation and nunation of the noun can be given in the affirmative. If mimation and nunation serve the purpose of signaling the absence of the object in the noun,

as in <u>kalbu+m</u> compared with <u>kalbu+šu</u>, then <u>na</u> and <u>n</u> should serve the same purpose in <u>jaqtulū+na</u>, <u>jaqtulū+n</u> as compared with <u>jaqtulū+šu</u>. Thus <u>na</u> and <u>n</u> of the verb perform the same function as <u>m</u> and <u>n</u> of the noun.

Below under 9.2 it is suggested that the verbal markers <u>na</u> and <u>n</u> were borrowed from the noun together with the case / mood, gender, and number systems.

This is the general picture of the treatment of mimation and numation after the long vowels of the Pl. and Du.:  $\not Q$  and  $\underline{n}$  (the latter only in the Du. of the noun) in Akkadian; <u>ma</u> and <u>na</u> in Ugaritic, Old Canaanite, and Arabic; and <u>na</u>, <u>m/n</u> (also  $\not Q$  in the verb) in Hebrew and Syriac.

Four basic conclusions have been reached in regard to the mimation and numation in Semitic languages:

a) Mimation and numation include the following markers:
Noun, Sg.: <u>m</u>, <u>n</u>
Pl.: <u>ma</u>, <u>na</u>, <u>m</u>, <u>n</u>
Du.: <u>ma</u>, <u>na</u>, <u>ni</u>, <u>m</u>, <u>n</u>
Verb, Sg.: <u>na</u>, <u>n</u> (only? in 2nd Fem.)
Pl.: <u>na</u>, <u>n</u>
Du.: ni

b) Markers with <u>a</u>, namely <u>ma</u> and <u>na</u>, are older than markers without <u>a</u>. The vowel <u>i</u> of <u>ni</u> of the Du. is derived by dissimilation from <u>a</u> of <u>na</u>.

c)  $\underline{M}$  of the mimation is older than <u>n</u> of the nunation.

d) Mimation and nunation serve the purpose of signaling the absence of the object in the noun and verb.

The first three points add up to the main conclusion that the

original marker of the mimation / nunation was ma.

After years of fruitless attempts to explain the function of mimation (or nunation) in Semitic languages, the solution here proposed appears too simple to be true: mimation is nothing but a marker signaling the absence of certain morphemes. This conclusion, resulting solely from considerations of morpheme sequence, provides an excellent illustration of the advantages of sequential reconstruction.

Thus mimation does not represent a stop or a pause, as I once thought (<u>Morphology of Akkadian</u> p. 8), or a terminal / pausal form (Reiner, <u>LAA</u> p. 57). Nothing in the structure of Semitic languages supports the once widely held idea that mimation has an indefinite function and nunation a definite one.

There was no functional difference between the markers <u>ma</u> and <u>ma</u> or <u>m</u> and <u>n</u>, or among any of the four markers. Mimation in the Sg. of a noun has the same function as nunation in the Pl. or Du. of a noun. Mimation in one Semitic language corresponds exactly to nunation in another Semitic language. Originally, neither mimation nor nunation served the functions of definite or indefinite articles in the noun. It was only in the later stages of Semitic languages, after the introduction of the definite articles, such as <u>hal</u>+, <u>'al</u>+, <u>'an+</u>, or +<u>an+</u>, that the old markers of mimation or nunation acquired the function of indefiniteness. Thus the creation of the definite <u>'al-kalbu</u> "the dog" in North Arabic made <u>kalbu+n</u> indefinite, just as the definite <u>kalb+an+u</u> made <u>kalbu+m</u> indefinite in South Arabic. The preservation of +<u>na</u> or +<u>ni</u> in Pl. or Du. in the definite noun, as in <u>'al-qaşşābūna</u>, <u>'al-qaşşabaini</u>, is due to the preceding lony vowel. See my <u>Morphology of Akkadian</u> p. 9.

# 4.3. Mimation

One of the greatest surprises resulting from sequential reconstruction is the discovery that also the marker <u>mu</u> of the Part., like mimation and nunation of nouns and verbs, signals the absence of a morpheme. Thus <u>mu</u>, the first-rank prefix in <u>mu+šamhir+um</u> "the one who caused it to be received," is nothing else than the signal marking the absence of the first-rank prefix in the fientive verb, as in <u>ju+šamhir+u</u> "he caused it to be received." See 9.3. Since <u>ju</u> is the subject of the verbal action, <u>mu</u> denotes here the absence of the subject (not of the object, as with the mimation and nunation).

The existence of markers <u>mu</u> and <u>ma</u> to denote the absence of certain morphemes raises the interesting question as to the origin of these two markers.

Taking <u>ma</u> and <u>mu</u> to be the signals marking the absence of certain morphemes, it is tempting to assume that these two markers originally represented a word with the meaning "anyone," "anybody," or "anything" (except the object or subject normally found in such and such an environment). Hence, if <u>kalbu+šu</u> means "dog of his" and <u>jamhuru+šu</u> "he received him," <u>kalbu+ma</u> could mean "dog of any(body)" and <u>jamhuru+ma</u> "he received any(body)." Similarly, if <u>ju+šamhir+u</u> means "he caused it to be received," <u>mu+šamhir+um</u> could be translated as "any(body) who caused it to be received." If this be the case, then <u>ma</u> should represent a word in the object case, with the vowel <u>a</u> of the Gen./Acc., and <u>mu</u> should represent the same word in the subject case, with the vowel <u>u</u> of the Nom. For the markers <u>u</u> in the Nom. and <u>a</u> in the Gen./ Acc., dominating the case system of the Semitic languages, see 3.2.

Such a word exists in Semitic languages in two forms: 1) as the indefinite enclitic  $+\underline{ma}$  (and the like), and 2) as the indefinite / interrogative pronoun  $\underline{mu}+$ ,  $\underline{mi}+$ ,  $\underline{ma}+$ , with quite a few

#### 4. OBJECT

vocalic variations in different Semitic languages. Cf. Akkadian <u>man</u>, <u>min</u> "quis," "quid," or <u>man+ma</u>, <u>min+ma</u> "quis+que," "quid+que," briefly noted under 1.6. For some ossified forms of <u>mu</u> in Akkadian, see von Soden, <u>GAG</u> § 48c. Cf. further an Akkadian personal name <u>Mu-ni-e-pu-uš</u>-DINGIR "what have I done, O God" in Knut L. Tallqvist, <u>Assyrian Personal Names</u> (Helsingfors, 1914) p. 139. For other Semitic languages, see Barth, <u>Pronominalbildung</u> p. 140, and generally on <u>ma</u>, etc., pp. 137-143 and 169-175.

My interpretation of ma of the mimation and of mu of the participles as derived from the indefinite / interrogative pronoun mu+, <u>mi</u>+, <u>ma</u>+ superficially resembles two theories set forth years ago. E. Osiander, ZDMG XX (1866) pp. 231f., followed by Brockelmann, GVG I p. 472, and other scholars, proposed that long before the creation of the definite article, the Semitic languages felt the need to express indefiniteness in the noun, which they achieved by means of the particle ma. H. Ewald, Ausführliches Lehrbuch der hebräischen Sprache (5th ed., Leipzig, 1844) p. 305, supported by H. S. Nyberg in Le Monde Oriental XIV (1920) p. 177, suggested that ma+, mi+, mu+ of the participles, nomina loci, temporis, instrumenti, and abstracta are derived from the pronoun ma "what." The following can be said in comment to the above. Early Semitic languages expressed neither definiteness (determination) nor indefiniteness (indetermination), and the original function of the mimation had nothing to do with either. The two theories were proposed without any connection between the markers of the mimation and participles. The connection with the pronoun and enclitic ma was based on intuitive judgment, without factual evidence. Positional or sequential analysis played of course no role in the two proposed theories.

STEM GENDER NUM. CASE OBJ. ENCL. ATTESTED

(Masc.) (Sg.) (Nom.) Gen.

Concession in the local division of the loca	the second s					the second s		
Sg.	lst	Masc./Fem.	kalb	+u	+Ø	+)á	+i (+ma) etc.	kalbi <sup>1</sup>
	2nd	Masc.	kalb	+u	+Ø	+)zí	+ka	kalb(u)ka
		Fem.	kalb	+u	+Ø	+) <b>á</b>	+ki	kalb(u)ki
	3rd	Masc.	kalb	+u	+Ø	+)a(	+su	kalb(u)su
		Fem.	kalb	+u	+Ø	+)aí	+ša	kalb(u)ša
						_		
<b>Pl.</b>	lst	Masc./Fem.	kalb	+u	+Ø	+)⁄	+ni	kalb(u)ni
	2nd	Masc.	kalb	+u	+Ø	+)aí	+kunu	kalb(u)kunu
		Fem.	kalb	+u	+Ø	+)	+kina	kalb(u)kina
	3rd	Masc.	kalb	+u	+Ø	+) <b>ź</b>	+šunu	kalb(u)šunu
		Fem.	kalb	+u	+Ø	+)á	+šina	kalb(u)šina

1. Noun includes here the substantive and participle.

Chart 53. OBJECT, Noun, Sg., Pron. Suff., Gen.

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STEM GENDER NUM. CASE OBJ. ENCL. ATTESTED (Masc.) (Pl.) (Nom.) Gen.

Sg.	lst	Masc./Fem.	kalb	+u	+:	+)⁄	+i (+ma) etc.	kalbūia <sup>1</sup>
	2nd	Masc.	kalb	+u	+:	+) <b>1</b>	+ka	kalbūka
		Fem.	kalb	+u	+:	+) <b>í</b>	+ki	kalbūki
	3rd	Masc.	kalb	+u	+:	+)1	+šu	kalbūšu
		Fem.	kalb	+u	+:	+) <b>í</b>	+ša	kalbūša
P1.	lst	Masc./Fem.	kalb	+u	+:	+)	+ni	kalbūni
	2nd	Masc.	kalb	+u	+:	+)á	+kunu	kalbūkunu
	2nd	Masc. Fem.	kalb kalb	+u +u	+: +:	+)á +)á		kalbūkunu kalbūkina
	2nd 3rd					•	+kina	
		Fem.	kalb	+u	+:	+)aí	+kina	kalbūkina

1. Noun includes the substantive and participle.

Chart 54. OBJECT, Noun, Pl., Pron. Suff., Gen.

"STEM" GENDER NUM. MOOD OBJECT ENCL. ATTESTED

(Masc.)(Sg.)(Ind.) Dat. I

Sg.lst	Masc/Fem.	jamhur	+u	+Ø	+) <b>⁄</b> I	+im/+am (+ma) etc.	imhuri/am <sup>l</sup>
2nd	Masc.	jamhur	+u	+Ø	+)⁄1	+kum	imhurkum
	Fem.	jamhur	+u	+Ø	+)	+kim	imhurkim
3rd	Masc.	jamhur	+u	+Ø	+)¢	+sum	imhursum
	Fem.	jamhur	+u	+Ø	+)	+sim	imhuršim
Pl.1st	Masc/Fem.	jamhur	+u	+Ø	+)4	+niašim	imhurniašim
	Masc/Fem. Masc.	jamhur jamhur	+u +u	+ø +ø	-	+niašim +kunušim	imhurniašim imhurkunušim
					+)		Ū
2nd	Masc.	jamhur	+u	+Ø	+)¢ +)£	+kunušim	inhurkunušim
2nd	Masc. Fem.	jamhur jamhur	+u +u	+Ø +Ø	+)x +)x +)x +)x	+kunušim +kinašim	imhurkunušim imhurkinašim

1. In this and in the following charts the verb includes the Sg. of the fientive verb, imperative, and stative ending in Masc. <u>M</u> and Fem. <u>i</u> or <u>a</u>, as in <u>imhuri/am</u>, <u>imhuram</u>, <u>muhram</u>, <u>muhrim</u>, and <u>mahiram</u>. 2nd Fem. Sg. <u>ta+mhur+i+Ø+y(+ im</u> yields standard <u>tamhurim</u>, once <u>tamhurinim</u> (written <u>ta-qa-bi-ni-im</u> in <u>Sumer</u> XIII 49:17).

Chart 55. OBJECT, Verb, Sg., Pron. Suff., Dat. I.

STEM GENDER NUM. MOOD OBJECT ENCL. ATTESTED (Masc.)(Pl.)(Ind.) Dat. I

2	g.lst	Masc/Fem.	jamhur	+u	+:	+)á	+_im	(+ma) etc.	imhurūnim <sup>1</sup>
	2nd	Masc.	jamhur	+u	+:	+)¢	+kum		imhurûkum
		Fem.	janhur	+u	+:	+)	+kim		imhurūkim
	3rd	Masc.	jamhur	+u	+:	+x	+sum		imhurūšum
		Fem.	jamhur	+u	+:	+)á	+šim		imhurūšim
I	Pl.lst	Masc/Fem.	jamhur	+u	+:	+¥	+niašim		imhurūniašim
									•
	2nd	Masc.	jamhur	+u	+:	+)á	+kunušim		imhurūkunušim
	2nd	Masc. Fem.	jamhur jamhur	+u +u	+: +:	+)á +)á	+kunušim +kinašim		imhurūkunušim imhurūkinešim
			-			-			•
		Fem.	jamhur	+u	+:	+)í	+kinašim		imhurūkinasim

 In this and the following charts the verb includes the Pl. of the fientive verb, imperative, and stative ending in Masc. <u>u</u> and Fem. <u>a</u>, as in <u>impurūkum</u>, <u>impurākum</u>, <u>muḥrākum</u>, <u>muḥrākum</u>, <u>maḥźrūkum</u>, and <u>maḥźrākum</u>.

Chart 56. OBJECT, Verb, Pl., Pron. Suff., Dat. I.

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"STEM" GENDER NUM. MOOD OBJECT ENCL. ATTESTED

(Masc.) (Sg.)(Ind.) Dat. II

Sg.lst	Masc/Fem.	jamhur	+u	+Ø	+¥	+əm+an	(+ma) etc.	imhuri/am
2nd	Masc.	jamhur	+u	+Ø	+)2	+am+kum		imhurakkum
	Fem.	jamhur	+u	+Ø	+)1	+am+kim		imhurakkim
3rd	Masc.	jamhur	+u	+Ø	+)1	+am+sum		imhurassum
	Fem.	jamhur	+u	+Ø	+)4	+am+šim		imhuraššim
Pl.1st	Masc/Fem.	jamhur	+u	+Ø	+)#	+am+nias	im	imhuranniašim
2nd	Masc.	jamhur	+u	+Ø	+#	+am+kunu	sim	imhurakkunusim
	Fen.	jamhur	+u	+Ø	+)1	+am+kina	šim	imhurakkinašim
3rd	Masc.	jamhur	+u	+Ø	+¥	+am+sunu	šim	imhuraššunušim
				đ		+am+šina	<b>~</b> .	· · · · ·
	Fem.	jamhur	+u	+Ø	+) <b>á</b>	+am+sina	sim	imhuraššinašim

Chart 57. OBJECT, Verb, Sg., Pron. Suff., Dat. II.

"STEM" GENDER NUM. MOOD OBJECT ENCL. ATTESTED

(Masc.)(Pl.)(Ind.) Dat. II

Sg.lst	Masc/Fem.	jamhur	+u	+:	+)aí	+ im+¢n	(+ma) etc.	imhurunim
2nd	Masc.	jamhur	+u	+:	+)á	+ im+kum n		imhurūnikkum
	Fem.	jamhur	+u	+:	+)#	+_im+kim		imhurūnikkim
3rd	Masc.	jamhur	+u	+:	+)á	+_im+sum		imhurūniššum
	Fem.	jamhur	+u	+:	+) <b>ú</b>	+ im+šim n		imhurūniššim
Pl.1st	Maso/Fem.	jamhur	+u	+:	+)£	+ im+nias	im	imhurūninniašim
2nd	Masc.	jamhur	+u	+:	+) <b>ú</b>	+ im+kunu	šim	imhurunikkunušim
	Fem.	jamhur	+u	+:	+)á	+ im+kins	šim	imhurūnikkinašim
3rd	Masc.	jamhur	+u	+:	+)á	+ im+šunu	isim	imhurūniešunušim
	Fem.	jamhur	+u	+:	+) <b>ú</b>	+ im+šina n	išim	imhurūniššinašim

Chart 58. OBJECT, Verb, Pl., Pron. Suff., Dat. II.

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"STEM" GENDER NUM. MOOD OBJECT ENCL. ATTESTED

(Masc.)(Sg.)(Ind.) Acc. I

Sg.lst	Masc/Fem.	jamhur	+u	+Ø	+)á	+_i	(+ma) etc.	imhur(n)i
2nd	Masc.	jamhur	+u	+Ø	+)1	+ka		imhurka
	Fem.	jamhur	+u	+ø	+)á	+ki		imhurki
3rd	Masc.	jamhur	+u	+ø	+)á	+su		imhuršu
	Fem.	jamhur	+u	+ø	+)2	+ši		imhurši
Pl.1st	Masc/Fem.	jamhur	+u	+Ø	+)2	+niati		imhurniati
	Masc/Fem. Masc.	jamhur jamhur	+u +u	+ø +ø	+)á +)á	+niati +kunu(ti)	)	imhurniati imhurkunu(ti)
		- •		-	•			•
2nd	Masc.	jamhur	+u	+Ø	+)zí	+kunu(ti)	)	imhurkunu(ti)
2nd	Masc. Fem.	jamhur jamhur	+u +u	+Ø +Ø	+)4 +)4	+kunu(ti) +kina(ti)	)	imhurkunu(ti) imhurkina(ti)

Chart 59. OBJECT, Verb, Sg., Pron. Suff., Acc. I.

"STEM" GENDER NUM. MOOD OBJECT ENCL. ATTESTED (Masc.)(Pl.)(Ind.) Acc. I

Sg.lst	Masc/Fem.	jamhur	+u	+:	+)á	+_i	(+ma) etc.	imhuruni
2nd	Masc.	jamhur	+u	+:	+)á	+ka		imhurūka
	Fem.	jamhur	+u	+:	+)á	+ki		imhurūki
3rd	Masc.	jamhur	+u	+:	+xí	+su		imhurūšu
	Fem.	jamhur	+u	+:	+)á	+ši		imhurūši
Pl.1st	Masc/Fem.	jamhur	+u	+:	+) <b>x</b> í	+niati		imhurūniati
2nd	Masc.	jamhur	+u	+:	+) <b>ź</b>	+kunu(ti	)	imhurūkunu(ti)
	Fem.	jamhur	+u	+:	+)ź	+kina(ti	)	imhurūkina(ti)
3rd	Masc.	jamhur	+u	+:	+)á	+šunu(ti	.)	imhurūšunu(ti)
	Fem.	jamhur	+u	+:	+)¢	+šina(ti	.)	imhurūšina(ti)

Chart 60. OBJECT, Verb, Pl., Pron. Suff., Acc. I.

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		"STEM"	GENDER (Masc.)		MOOD (Ind.)	OBJECT Acc. II	ATTESTED
Sg.lst	Masc/Fem.	jamhur	+u	+ø	+)¢	+am+ni <sup>l</sup>	imhuranni
2nd	Masc.	jamhur	+u	+Ø	+)4	+am+ka	imhurakka
	Fem.	jamhur	+u	+Ø	+)4	+am+ki	imhurakki
3rd	Masc.	jamhur	+u	+Ø	+)4	+am+su	imhurassu
	Fem.	jamhur	+u	+Ø	+)2	+am+ši	imhurašši
Pl.1st	Masce/Fem.	jamhur	+u	+Ø	+)4	+am+niati	imhuranniati
2nd	Masc.	jamhur	+u	+Ø	+)á	+am+kunu(ti)	imhurakkunu(ti)
	Fem.	jamhur	+u	+Ø	+)⁄t	+am+kina(ti)	imhurakkina(ti)
3rd	Masc.	jamhur	+u	+Ø	+)4	+am+šunu(ti)	im <b>hura</b> ššunu(ti)
	Fen.	jamhur	+u	+Ø	+)¢	+am+šina(ti)	imhurassina(ti)

1. <u>Ni</u> was borrowed from <u>i</u> of Acc. I (<u>Charts 59-60</u>).

Chart 61. OBJECT, Verb, Sg., Pron. Suff., Acc. II.

		"STEM"	GENDER	NUM.	MOOD	OBJECT	ATTESTED
			(Masc.)	(Pl.)	(Ind)	Acc. II	
Sg.lst	Masc/Fem.	jamhur	+u	+:	+)¢	+_im+ni	imhurūninni
2nd	Masc.	jamhur	+u	+:	+)#	+ im+ka n	imhurunikka
	Fem.	jamhur	+u	+:	+)aí	+ im+ki n	imhurūnikki
3rd	Masc.	jamhur	+u	+:	+)#	+ im+su	imhurūniššu
	Fem.	jamhur	+u	+:	+) <b>í</b>	+ im+ši	imhurūnišši
Pl.1st	Masc/Fem.	jamhur	+u	+:	+)á	+ im+niati n	imhuruninniati
2nd	Masc.	jamhur	+u	+:	+)á	+_im+kumu(ti)	imhurunikkunu(ti)
	Fem.	jamhur	+u	+:	+)á	+ im+kina(ti) n	imhurünikkina(ti)
3rd	Masc.	jamhur	+u	+:	+)á	+_im+sunu(ti)	imhurūniššunu(ti)
	Fem.	jamhur	+u	+:	+)4	+ im+šina(ti)	imhurūniššina(ti)

Chart 62. OBJECT, Verb, Pl. Pron. Suff., Acc. II.

"STEM" GENDER NUM. MOOD OBJECT ENCL. ATTESTED (Masc.)(Sg.)(Ind.) Dat. II +Acc. I

Sg.lst	Masc/Fem.	jamhur	+u	+Ø	+xí	+am+an/su (+ma etc	
2nd	Masc.	jamhur	+u	+Ø	+)1	+am+kum+su	imburakkussu
	Fem.	jamhur	+u	+Ø	+) <b>1</b>	+am+kim+šu	imburakkissu
3rd	Masc.	jamhur	+u	+Ø	+x(	+am+sum+su	*imhurassussu
	Fem.	jamhur	+u	+Ø	+) <b>á</b>	+am+sim+su	*imhurassissu
Pl.lst	Masc/Fem.	jamhur	+u	+Ø	+)4	+am+niašim+šu	*imhuranniašiššu
2nd	Masc.	jamhur	+u	+Ø	+)á	+am+kunušim+šu	*imhurakkunušiššu
	Fem.	janhur	+u	+Ø	+)4	+am+kinašim+šu	*imhurakkinašiššu
3rd	Masc.	jamhur	+u	+Ø	+)#	+am+sunusim+su	*imhurassunušissu
	Fem.	jamhur	+u	+Ø	+xí	+am+šinašim+šu	*imhuraššinašiššu

 The distribution of the pronominal suffixes with <u>ambur</u>, tambur, imbur, etc., needs a careful study; the same applies to <u>Chart 64</u>.

Chart 63. OBJECT, Verb, Sg., Pron. Suff., Dat. II + Acc. I.

"STEM" GENDER NUM. MOOD OBJECT ENCL. ATTESTED (Masc.)(Pl.)(Ind.) Dat. II +Acc. I Sg.lst Masc/Fem. jamhur +u +: +# + im+##+šu (+ma) imhurūniššu<sup>1</sup>

Sg.1st	Masc/rem.	Jamünr	+u	+:	+д	n etc.	imnuruniseu
2nd	Masc.	jamhur	+u	+:	+xí	+ im+kum+su	imhurūnikkuššu
	Fem.	jamhur	+u	+:	+)á	+ <sub>n</sub> im+kim+šu	imhurūnikkiššu
3rd	Masc.	jamhur	+u	+:	+)á	+ im+sum+su	*imhurūniššuššu
	Fem.	jamhur	+u	+:	+)⁄i	+ im+šim+šu	*imhurūniššiššu
Pl.1st	Masc/Fem.	jamhur	+u	+;	+xí	+ im+niašim+šu	*imhurūninniašiššu
2nd	Masc.	jamhur	+u	+:	+xí	+ im+kunušim+šu	*imhurūnikkunušiššu
	Fem.	jamhur	+u	+:	+)á	+ im+kinašim+šu	*imhurunikkinasissu
3rd	Masc.	jamhur	+u	+:	+)á	+ im+sunusim+su	*imhurūniššunušiššu
	Fem.	jamhur	+u	+:	+)aí	+ im+šinašim+šu	*imhurunissinasissu

 The distribution of the pronominal suffixes with <u>amhur</u>, tamhur, imhur, etc., needs a careful study; the same applies to <u>Chart 63</u>.

Chart 64. OBJECT, Verb, Pl., Pron. Suff., Dat. II + Acc. I.

# 5. ENCLITICS

The rank number 5 after the stem is occupied by the enclitics, which may occur not only after nouns, pronouns, verbs, and statives, but also after indeclinables. Such enclitics in Akkadian are, e.g., +ma, +mi, +man (or +min), and +akku. The enclitic +ni, originally a secondary subjunctive in  $\underline{\check{s}a}$  imhur+ $\underline{\acute{s}a}$ +i (see 3.11) became a true enclitic particle, occupying rank number 5, as in  $\underline{\check{s}a}$  illika $\underline{\acute{s}ni}$  or  $\underline{\check{s}a}$  imhur $\underline{\acute{s}uni}$ . Mimation occupies rank number 4 and can never be considered an enclitic. See 4.3. oi.uchicago.edu

### 6. STEM AND ROOT

#### 6.1. Introductory Remarks

In analyzing individual word classes in Semitic languages, as represented by <u>kalbum</u>, <u>kalbim</u>, <u>jamhurū</u>, <u>jušamhirū</u>, etc., it is possible to recognize immediately that they are composed of two classes of morphemes: 1) the stems <u>kalb</u>+, +<u>mhur</u>+, and +<u>mhir</u>+, and 2) sequential morphemes before and/or after the stem.

## 6.2. Stem

The stem is the basic morpheme of a word without its sequential morphemes and is regularly composed of consonants and vowels.

The stem can be simple or extended.

The simple stem appears in the form STEM+ in primary nouns, as in <u>kalb</u>+ of <u>kalb+um</u> "dog" or <u>kalb+atum</u> "bitch;" in verbal nouns, as in <u>mahir</u>+ of <u>mahir+um</u> "received" and in <u>mihir</u>+ of <u>mihir+stum</u> "correspondence" ("corresponding position"); in the statives, as in <u>mahir</u>+ of <u>mahir+aku</u> "I am received;" and in many classes of indeclinables, such as <u>jin</u>+ of <u>jin</u>, <u>jin+a</u> "in," <u>jana</u> (sic!) of <u>jana</u>, <u>jan</u> "to," and wišt+ of <u>wist+um</u> "from" or <u>wist+i</u> "with."

The number of consonants in the simple stem is usually three or two, of the vowels, two or one. Simple stems with one or four (occasionally even more) consonants and with three or more vowels are rare. Certain pronouns must be reconstructed as consisting of a stem with a consonant but no vowel, as in  $\underline{\check{s}}$ + of  $\underline{\check{s}}$ +u,  $\underline{\check{s}}$ +uati "he,"

#### 6.2. Stem

or in <u>m</u>+ of <u>m+annum</u> "who?" <u>m+inum</u> "what?" A few nouns also belong to the same class, such as <u>p</u>+ of <u>p+um</u> "mouth."

The simple stem appears in the fientive verb and verbal nouns in the form +STEM+, as in +<u>mhur</u>+ of <u>ja+mhur+</u>u "they received," +<u>mhir</u>+ of juša+mhir+u "they caused it to be received."

Vowel variations occur in the stems of fientive verbs, as in +mhur+, +mhir+, +mahar+, and of verbal nouns, as in mahir+ or mihir+. The vowels and the second or third consonants can be lengthened, as in <u>mahir+, mahhir+, or mahirr+</u>. Some intrusive "weak" consonants can enter the structure of the stem, as in the <u>gajtal</u>+ or <u>gawtal</u>+ stems of the West Semitic. Or a combination of some or all of these features can be found in stems, especially in the so-called internal plurals of West Semitic languages. All these variations belong to the class often called "'interlocking' (or 'intercalating' or 'discontinuous') morphemes."

The simple stem can be doubled, fully or partially, in nouns, as in Akkadian <u>gad+qad+um</u> "head," <u>upšašū</u> "spells," compared with <u>m</u> <u>epēšum</u> "to do"; in pronouns, as in <u>m+ad+m+an</u> "whoever;" in verbs, as in Hebrew <u>golēl</u> "rolling," compared with <u>gal+gal</u> "wheel," or <u>jegomēm</u> "raises," compared with <u>jāqum</u> "stands."

The simple stem of nouns may be prolonged fore and/or aft by various prefixal and suffixal elements.

The prefixes  $\underline{a}$ ,  $\underline{ta}$ ,  $\underline{ta}$ ,  $\underline{sa}$  (or  $\underline{ha}$  in other Semitic languages),  $\underline{ja}$ ,  $\underline{ma}$ , and  $\underline{na}$  occur in verbal nouns. They occur mainly with the vowel  $\underline{a}$ , but also with  $\underline{i}$ , as in  $\underline{ti}$  or  $\underline{ji}$ , and  $\underline{u}$ , as in  $\underline{su}$  or  $\underline{mu}$ . A combination of more than one prefix, such as  $\underline{su}$ +ta+,  $\underline{na}$ +ta+, also is possible. Certain infixes, such as +ta+ or +tana+, which appear after the first syllable of the stem in Akkadian, must be treated as

#### 6. STEM AND ROOT

original prefixes, as in other Semitic languages. All these prefixes originally represent the prefixal sequential elements of the verb. See 9.3.

The prefixes <u>`a+</u>, <u>`i+</u> (and perhaps others) appearing in primary nouns, such as <u>`a+rba'+um</u> "four," <u>'a+qrab+um</u> (from <u>`a+qrab+um</u>; cf., e.g., Hebrew <u>`Ašqelon</u> = Arabic <u>'Asqalan</u>) "scorpion," <u>`i+krib+um</u> "prayer," and <u>`i+pțir+um</u> "redemption," represent secondary prothetic vowels. Cf. the Arabic imperative <u>`2u+qtul</u> "kill!", beside <u>qtul</u>, <u>qutul</u>, <u>qutl</u> in other Semitic languages.

Suffixes occur mainly in primary nouns, as in <u>kalb+ān+um</u> "doglike" or <u>Aššur+ij+um</u> "Assyrian," rarely in verbal nouns, as in <u>māḥir+ān+um</u> "the one who receives." A combination of two suffixes occurs, e.g., in šapl+ān+ij+um "lower."

A combination of prefixes and suffixes is apparent, e.g., in  $\underline{mu+rabbij+an+um}$  "the one who raises."

Of all these types of stems, simple and extended, with prefixes and suffixes, it is the suffixal extended stem, as in <u>sapl+an+um</u> or <u>Assur+ij+um</u>, that is our main concern, because of the potential (but not real) confusion of the markers of the extended stems with those of the sequential morphemes. For a fuller discussion of the suffixal extended stems in the noun, see under 7.3; a list of simple stems occurring in the noun is given in 7.2.

For lists and discussions of the simple stems in the fientive verb, as in <u>ju+mahhir+u</u>, and of the prefixal extended stems in verbal nouns, as in mu+mahhir+um, see 9.3 and 9.4.

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## 6.3. Root

As I check through the completed chapters of this study I note to my astonishment that I have nowhere used the term "root." Apparently it is possible to present a grammatical analysis of a language or group of languages using the term "stem" and avoiding involvement with the concept of the root.

Scholars have used the term "root" on two levels, morphological and lexical. It will be shown below that the concept of the root is unnecessary on the morphological level. When used on the lexical level, the root has a more restricted meaning than generally assumed.

In a morphological analysis of such a verbal form as ja+mhur+u, "they received" some scholars insist that after subtracting the sequential morphemes ja+ and +u, the stem +mhur+ should be further analyzed as the root morpheme mar plus the morpheme of the Pret. of the B formation, which can be symbolized as the pattern  $C_1 C_2 \underline{u} C_3$ . Similar procedures were proposed for such a verbal form as ju+mabhir+u, where +mahhir+ was analyzed as the root mhr plus the pattern  $C_{1aC_2}:iC_3$  for the Pret. of the D formation. This is all very questionable. There is nothing in +mhur+ (or  $C_1C_2uC_3$ ) and +mahhir+ (or mah: ir or  $C_{1a}C_{2}$ :  $\underline{i}C_{3}$ ) that defines them as Pret. of this or that formation; +mhur+ occurs also in the verbal nouns na+mhur+ of the BN formation, su+mhur+ of the BS formation, etc., while +mahhir+ is found also in the Part. mu+mahhir+ of the D formation, etc. The fact is that the meaning of these formations and patterns can be ascertained only in a detailed study of the stem, both nominal and verbal; and their exact morphological function in either the noun or the verb can be detected only from the analysis of the stems in

#### 6. STEM AND ROOT

conjunction with the sequential morphemes. This being the case, the concept of the consonantal root has no place in a morphological analysis. See also Reiner, LAA pp. 54f.

The concept of the root, with its lexical and semantic connotations, is utilizable in lexicographical studies and in dictionaries.

The root appears in the form of both consonants and vowels in primary nouns, pronouns, and some indeclinables, as in the root <u>kalb</u> "dog" of <u>kalb+um</u> "dog" or <u>kalb+ānum</u> "dog-like," the root <u>'ab</u> "father" of <u>'ab+um</u> "father," or <u>'abb+ū</u>, <u>'ab+ā'ū</u> "fathers," and the root <u>wišt</u> "inside" of <u>wišt+ūm</u> "from" or <u>wišt+i</u> "with."

The root appears in the form of consonants only in verbs, and nouns derived from verbs, as in the root <u>mhr</u> "receive" of <u>ja+mhur+u</u> "they received," <u>juša+mhir+u</u> "they caused it to be received," <u>mahār+um</u> "to receive," <u>māhir+um</u> "recipient," <u>ta+mhir+stum</u> "reception," etc. The same goes for the roots <u>bl</u> "carry," <u>kn</u> "be firm" (or <u>wbl</u>, <u>kwn</u>, depending on the reconstruction).

Regularly in the past, less so in recent times, the consonantal structure of the Semitic root has been taken for granted. Founded on the Arabic model, the noun <u>kalb+um</u> "dog" is said to be based on a consonantal root <u>klb</u>, just as the fientive verb <u>ja+mhur+u</u> "they received" or the verbal noun <u>mahir+um</u> "recipient" are traced back to the root mhr. This is not simply questionable; this is wrong.

The difference between the root of the primary nouns, pronouns, and some indeclinables, on the one hand, and of the verbs and the verbal nouns, on the other, is clear and absolute in the older stages of Semitic languages, especially Akkadian.

The root <u>kalb</u> has no morphemic alternants; no <u>kilb</u>, or <u>kulb</u>, no <u>aklab</u> are possible in the system. All the phonetic variations

#### 6.3. Root

to which the vowels of primary nouns and indeclinables are subjected are phonetically conditioned. Thus  $\underline{ra} \underbrace{sum}$  "head" or  $\underline{cal}$  "upon" can and must become in the course of time  $\underline{resum}$  or  $\underline{el(i)}$ , respectively, because of the proximity of certain laryngeal consonants. <u>Dámiqum</u> "good" will become  $\underline{dám}\underline{f}q\underline{u}m$  because of stress conditions. <u>Kalbum</u> "dog" can acquire a secondary anaptyctic vowel  $\underline{i}$  in <u>kalibum</u> because of the proximity of the "syllabic" consonant  $\underline{l}$ . Only in the later, West Semitic, languages have the primary nouns acquired morphemic alternants, each with a specific morphemic function, thus making possible the amalgamation of the roots of primary nouns with those of the verbs and verbal nouns in West Semitic.

On the other hand, the root <u>mhr</u> of the verbs and verbal nouns can be realized in a number of stems, with vowels varying both qualitatively and quantitatively, and consonants varying quantitatively, each variation denoting a different morphemic function. The varying vowels appear in <u>+mhur</u>+ of <u>ja+mhur</u>, <u>+mhir</u>+ of <u>juša+mhir+ū</u>, <u>māhir</u>+ of <u>māhir+um</u>, etc. The varying consonants are shown in <u>mahhir</u>+ of <u>ju+mahhir+ū</u>, <u>māhir</u> of <u>māhir+um</u>, etc. The structure of the verbal root applies to Semitic languages in all their historical stages.

This clear-cut distinction between the two kinds of Semitic roots, consisting of consonants and vowels in primary nouns, pronouns, and some indeclinables, and of consonants only in verbs and nouns derived from verbs, has never been understood and realized in the past and present grammars of Semitic languages. See Gelb in <u>BO</u> XII (1955) p. 105a.

## 7. <u>NOUN</u>

## 7.1. Introductory Remarks

Under the noun we include here primary substantives and adjectives and verbal nouns, such as participles, adjectives, and infinitives.

Since the noun is amply discussed in the first four chapters of this monograph, the present chapter will be limited to the listing and brief discussion of the nominal stems, simple and extended.

## 7.2. Simple Nominal Stems

The list of simple stems given in <u>Chart 65</u> illustrates the different vocalic patterns occurring in Akkadian. For the distribution and function of these patterns, see von Soden, <u>GAG</u> §§ 54ff. Additional patterns can doubtless be found in other Semitic languages.

## 7.3. Extended Nominal Stems

The aim of the list given in <u>Chart 66</u> is to provide a rather complete sampling of suffixes used in the extended nominal stems in Akkadian. Many more types of extended stems are to be found in other Semitic languages, especially in the internal plurals of West Semitic.

I learn from Dr. Gene Schramm that extended piling of suffixes is possible in modern Hebrew, as in na<sup>c</sup>ar+ūt+<u>ij+ūt</u>.

A note of warning is necessary in respect to a possible confusion of suffixes of the extended stems with sequential morphemes.

atl	<u>qatal</u>	* <u>qātal</u>	<u>qattal</u>	qattal	qatal	<u>qatall</u>
album	rapasum		<b>`ajjalum</b>	šarrāqum	mahārum	kaparrum
albatum	rapašatum		šapparum	nappāhum	halakatum	sasallum
ar <sup>o</sup> um	zak(a)rum		gammalum	qarradum		pahallum
nar <sup>o</sup> atum	qatil	gatil	qattil	•qattil	<u>qatīl</u>	<u>qatill</u>
ansum	mahirum	mähirum	zammirum		mahirum	pasillum
samsatum	mahiratum	câribum	raqqidum		salimum	talimmatum
nalkum			qabbirum		hasisum	
malkatum	qatul	* <u>qātul</u>	<u>qattul</u>	<u>qattül</u>	qatul	qatull
wardum	samuhum		mahhurum	makkurum	baţūlum	rasubbum
	samuhatum		(Ass.)	paššūrum	karubum	namurratum
	maryişum		barrumum		sarūrum	šaqummum
			<u></u>			
qitl	<u>qital</u>	• <u>qital</u>	<u>qittal</u>	* <u>qittāl</u>	qital	<u>qitall</u>
° immum	sikarum		pinnarum		kišādum	pilakkum
zi°bum	zik(a)rum		qinnazum		tihāmatum	pilaqqum
nišrum					himarum	
tirhatum						
	<u>qitil</u>	*gitil	qittil	* <u>qittil</u>	<u>qitîl</u>	qitill
	gimžrum		şihhirum		kililum	gimillum
	gimiratum	1	°immirum		qibirum	šibi <b>rrum</b>
	sip <b>ĭrum</b>					sikinnum
	<u>qitul</u>	* <u>qitul</u>	* <u>qittul</u>	<u>qittūl</u>	<u>qitul</u>	qitull
	qir <b>y</b> (bum			sikkūrum	sinûnum	pisurrum
				bişşürum	sinungtum	ziqurratum
					birūrum	
<u>qutl</u>	*qutal	* <u>qutal</u>	*quttal	quttal	qutal	<u>qutall</u>
ouznum				oummarum?	qurādum	husahhum
puqdatum				qummālum?	huraşun	kutallum
tubqum					buqaqum	šuharratu
	* <u>qutil</u>	*qutil	*quttil	quttil	qutil	qutill
				hunninum	suripum	buşinnum
				şummiratur	n kurībum	supinnum
					p <b>uridum</b>	
	qutul	* <u>qūtul</u>	quttul	*quttūl	qutul	qutull
	lub(u)su	m	muhhurun	3	rukübum	hubullum
	lubusatu	m	(Bab.)		kulülum.	kunukkum

#### 7. NOUN

Thus in Arabic plurals <u>san+ah+ātun</u> or <u>san+aw+ātun</u> "years," <u>+ah</u>+ and +<u>aw</u>+ do not represent sequential morphemes, but are parts of the extended stem.

For the use of prefixes in the extended stems of the verb, see 9.3.

Notes to Chart 66:

1) The suffix  $\underline{an}$  is one of the most productive suffixes in Semitic languages; see the brief remarks under 1.5 and 3.2. In contrast to Akkadian, where Masc. forms in + $\underline{an+um}$  cannot have Fem. in + $\underline{an+at+um}$ , Arabic has both, as in Masc. <u>curjanun</u>, Fem. <u>curjanatun</u> "naked."

 For an interpretation of the secondary Pl. morpheme <u>an+u</u>, <u>anu</u>, <u>an</u> in Akkadian and other Semitic languages, see Gelb in <u>BO</u> XII (1955) p. 107 and above under 2.5.

3) Personal names ending in +<u>at+ān+u</u> (without mimation) and much more frequently in +<u>at+ān</u> (without the other sequential morphemes) are known from Amorite. The Hebrew nouns <u>nahūštān</u>, <u>liwjatān</u> (from lawij+at+ān), and perhaps others probably belong here.

4) The so-called "gentilic" of Semitic languages is derived from the Gen. of the noun. Thus <u>Assur+ij+um</u> represents the stem <u>Assur</u>, plus the Gen. marker <u>i</u>, plus the glide <u>j</u> (or <sup>3</sup>) before the secondary sequential morphemes. Similarly, <u>Assur+aj+um</u> is derived from a Gen. \*<u>Assur+a</u>, with the Gen. marker <u>a</u>.

5) As interpreted under 1.2, the Masc. Pl. of the Part. <u>māhir+ūt+um</u> is derived secondarily from the corresponding Fem. <u>māhir+āt+um</u>. On the analogy of the Latin neuter Pl. of the Adj. <u>bona</u> "good (things)" used in a substantivized sense as "goods," we view <u>ūt</u> of the Part. as marking secondarily Fem. abstract

SUFFIX	STEM	GENDER	NUMBER	CASE	OBJECT	ATTESTED
+ān+	šapl+ān	+u	+Ø	+)aí	+n	šaplānum <sup>1</sup>
	kalb+an	+u	+:	+)á	+#1	kalbānū <sup>2</sup>
	mu+rabbij+an	+u	+Ø	+)á	+m	murabbijānum
+ān+ij+	šapl-ān+i	+j <sup>u</sup>	+Ø	+xí	+m	šaplānijum
	Şarp+ān+i	+,a j	+Ø	+ <sub>t</sub> u	+00	ŞarpānŽjátum
+at+an+	Ş <b>ûr</b> +at-ān	+u	+Ø	+)á	+#	Şûratānu <sup>3</sup>
+ij+	Aššur+i	+j <sup>u</sup>	+Ø	+)4	+12	Aššurijum <sup>4</sup>
+aj+	Assur+a	+j <sup>u</sup>	+Ø	+)ź	+12	Aššurajum 4
+at+ij+	ra°š+at+i	+ j <sup>u</sup>	+Ø	+)ź	+n	rêštijum
+ūt+	iššakk+u	+a W	+Ø	+ <sub>t</sub> u	+02	iššakkūtum <sup>5</sup>
	issakk+u	+ a ¥	+:	+ <sub>t</sub> u	+ <b>m</b>	iššakkuwatum <sup>5</sup>
+at+ūt+	ah+at+ut	+u	+Ø	+)á	+101	ahatūtu <sup>6</sup>
+üt+ān+	rašij+ūt+ān	+u	+Ø	+)á	+101	rašūtēnu <sup>7</sup>
+ā°+	huluqq+a	+,u	+Ø	+)á	+m	huluqqā'um <sup>8</sup>

Chart 66. Extended Nominal Stems.

## 7. NOUN

nouns, as in <u>sarrūtum</u> "kingdom," "kingship." The formation <u>sarrūtum</u> may have been reinterpreted in Sg. as <u>sarruatum</u> (or <u>sarruwatum</u>, with the glide <u>w</u>), as posited by the Pl. form <u>sarruātum</u> (or <u>sarruwātum</u>), exemplified in Old Akkadian <u>iššakkuātim</u>, written PA.TE.SI-<u>gu-a-tim</u>, "provinces," "governorships" (Gelb, <u>MAD</u> III p. 75). Note also the Old Assyrian <u>mer<sup>3</sup>utum</u> "daughter" in Sg., but <u>mer<sup>3</sup>u(w)</sup>ātum</u> "daughters" in Pl. In later periods only <u>ut</u> is used in Sg., while the Pl. is not attested in this abstract formation.

6) Normally the marker  $\underline{ut}$  for abstract nouns is attached to stems not followed by the Fem. marker, as in ah+ut+u "sisterhood," not ah+ $at+\overline{ut+u}$ . However, ah+ $at+\overline{ut+u}$ ,  $\underline{mar+\mut+\overline{ut+u}}$  "daughtership," and <u>kall+ $at+\overline{ut+u}$ </u> "daughter-in-law-ship" are attested in the Middle Babylonian dialect of Nuzi.

7) The word <u>rasútānu</u> "debtor" occurs only in the New Babylonian period.

8) The <u>muhurra</u><sup>3</sup>um formation, on which see von Soden, <u>GAG</u> § 560, begins to appear in the Old Akkadian period (Gelb, <u>MAD</u>  $II^2$  p. 155) and represents the only extended stem with <u>3</u> in Akkadian. Much additional evidence is to be found in the formations of West Semitic internal plurals.

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### 8. PERSONAL PRONOUN

## 8.1. Introductory Remarks

The lists and discussions in this chapter treat of the personal pronouns proper, both independent and suffixal, and of the personal pronominal elements occurring in the verb and stative.

For the sequential morphemes denoting gender, number, and case, see the full documentation and discussion under personal pronouns in the first three chapters of this monograph.

As regularly presented in the past and current grammars of Akkadian, the independent personal pronoun appears in different forms in the subject and oblique cases (<u>casus rectus</u> and <u>obliquus</u>, respectively). The forms of the subject case are given as <u>anāku</u>, <u>attā</u>, <u>attī</u>, <u>šū</u>, <u>sī</u>, <u>nīnu</u>, <u>attunu</u>, <u>attina</u>, <u>šunu</u> and <u>šina</u>; those of the oblique case as <u>jâti</u>, <u>kâti</u>, <u>kâti</u>, <u>šuāti</u>, <u>šiāti</u>, <u>niāti</u>, <u>kunūti</u>, <u>kināti</u>, <u>šunūti</u>, and <u>šināti</u>. See, e.g., von Soden, <u>GAG</u> § 41f. The subject forms of the lst and 2nd persons are said to occur as suffixes in the stative (§ 42b) and as prefixes in the fientive verb (§ 75e). The object forms are noted as occurring as pronominal suffixes (§ 42) and possessive pronouns (§ 44). The personal pronouns of the 3rd person, <u>šū</u>, <u>šī</u>, <u>šunu</u> and <u>šina</u> are said to be anaphoric in origin (§ 41b). Nothing is said about the origin of the <u>ja</u>+, <u>ji</u>+, <u>ju</u>+ prefixes in the verb and suffixes in the stative.

This is generally the picture of the personal pronouns which is found also in grammars of other Semitic languages and in compara-

tive grammars of Semitic languages.

A note of warning is necessary about the formal and functional aspects of the pronoun <u>su</u> in Akkadian. It appears as <u>su</u>, <u>si</u>, <u>sunu</u>, and <u>sina</u> for the personal and demonstrative pronoun, as in <u>su</u> <u>impur</u> "he received" or <u>kalbum <u>su</u> "this dog;" and as <u>su</u>, <u>sat</u>, <u>sut</u>, and <u>sat</u> for the determinative, relative, and indefinite pronoun, as in <u>kalbum</u> <u>su sarrim</u> "the dog of the king," <u>sarrum su</u> <u>impur</u> "the king who received," or <u>su</u> impuru "whoever received."</u>

Of no concern to us in this study is the question of the original sibilants of the 1) personal, 2) demonstrative, and 3) determinative, relative, and indefinite pronouns, which show great variations both in Old Akkadian and other Semitic languages.

What is important is the relation of  $\underline{\check{s}}$  (or  $\underline{s}$ ), appearing in some Semitic languages, to  $\underline{h}$  (or  $\underline{2}$ ), found in other Semitic languages, as in the personal pronoun  $\underline{\check{s}u}$  and  $\underline{hu}$ , or  $+\underline{\check{s}u}$  and  $+\underline{hu}$  (similarly for Fem. and Pl.), and in the causative  $\underline{ju+\check{s}a+mhir+u}$  and  $\underline{ju+ha+mhir+u}$ . At times, both  $\underline{\check{s}}/\underline{s}$  and  $\underline{h}/\underline{2}$  occur in the same language, as in the <u>"istaqtala</u> and "aqtala formations of Arabic, and the personal pronouns  $\underline{he}$  "he" and  $\underline{se}$  "she" of modern Mehri, spoken in South Arabia. E. A. Speiser, <u>Israel Exploration Journal</u> IV (1954) pp. 108-115 (and previously in <u>JAOS</u> LVI [1936] pp. 23ff.), assumed that, since the phonetic change  $\underline{\check{s}}$  to  $\underline{h}$  is unknown in Semitic languages, the occurrences with  $\underline{\check{s}}$  or  $\underline{h}$  reflect two original and different pronouns, namely  $\underline{\check{s}u}$  and  $\underline{hu}$ , and similarly in the elatives  $\underline{\check{s}uqtul}$  and <u>haqtal</u>, and in Akkadian  $\underline{\check{s}umma}$  "if" and Ugaritic <u>HM</u> (pp. 112f.). This apparently is also the position of Moscati, <u>ICG</u> pp. 104f. On the other hand, Diakonoff, <u>SHL</u> pp. 21, 58, 71f., 75, etc., operates with

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#### 8.1. Introductory Remarks

one phoneme, symbolized as  $\underline{s}$ , which "has not been preserved in any historically known Semito-Hamitic languages, with the possible exception of the most ancient stage of Old Akkadian" (p. 21, with reference to my <u>MAD</u>  $II^2$  pp. 34ff.). This is the phoneme which is realized as <u>h</u> in certain Semitic and Hamitic languages, according to Diakonoff. Without going into the intricate problems of the sibilants, let it suffice to state --with all due caution--that I have for years maintained the position favored by Diakonoff. Similar conclusions were drawn apparently by F. Rundgren, <u>Über Bildungen</u> <u>mit  $\underline{s}$  und n-t-Demonstrativen im Semitischen</u> (Uppsala, 1955) pp. 121 and 144. For another phonological problem affecting <u>ě</u>, <u>h</u>, see 3.8.

Some years ago Speiser noted in an instructive article entitled "Studies in Semitic Formatives," JAOS LVI (1936) pp. 22-46, esp. in the section "The 'Causative' Conjugation" on pp. 23-33, that the causative ju+sa+mhir+u (or ju+ha+mhir+u, etc., in other Semitic languages) contains two prefixal elements, namely ju, the origin of which he left unexplained, and sa (or ha), which he connected with the personal pronoun su (or hu). Speiser translated Akkadian usabni as "he caused to build," implying "that A had ordered or induced B to build (a house)." He failed to draw the natural conclusion that A should represent the subject and B the object, and insisted that both A and B represent two distinct subjects (p. 29). Relying on some unclear connections with the Arabic "pronoun of separation" or "pronoun of support," he reinterpreted the word usabni as "A orders (wishes, etc.) that B build a house" or "A orders, B builds the house" (p. 30). The vowel a of his second subject element, sa, must have been a source of some concern to Speiser, but he brushed it aside with the statement that a correct interpretation of the vowel a "would presuppose deeper

#### 8. PERSONAL PRONOUN

insight into proto-Semitic phonology than we can possibly claim at present" (p. 31 n. 25).

Notwithstanding some misgivings expressed above, Speiser's stimulating article exerted strong influence on my thinking on the subject. In Morphology of Akkadian p. 48 I analyzed ju+sa+mhir+u as consisting of "ju 'he (here),' plus sa/sa/ha 'him (there),' plus mhir 'receive'". Thus I realized: 1) that ju and sa do not represent two subject cases on equal footing, but that ju stands for the subject case and <u>sa</u> for the object case; and 2) that ju may represent the "here-deixis," and sa the "there-deixis" in the two pronouns of the 3rd person. Partly in accordance with A. Goetze's observation in The Laws of Eshnunna (New Haven, 1956) p. 135, "as with all Š forms accompanied by only one object, the meaning is passival," I would now translate ju+sa+mhir+u as "he (here) caused him (there) to be received." The second pronoun "him" can stand also for "it" or "her." From 3.5 we know that Masc.  $\underline{su}_{+a}$  yields ša (as well as <u>sua</u> and <u>su</u>), just as Fem. <u>si+a</u> yields <u>sa</u> (as well as <u>sia</u> and <u>si</u>). The syntactic structure and the sequence, subject (Nom.) + object (Acc.), is standard in Semitic. See 4.1. Thus B. Kienast's interpretation of the causative as ja-su-qatil (or ja-hu-qatil) in an article entitled "Der Präfixvokal u im Kausativ und im D-Stamm des Semitischen" published in Münchener Studien zur Sprachwissenschaft Heft 11 (1957) pp. 104-108, is completely unacceptable to me.

Several considerations, based mainly on the realization of the importance of the pronoun <u>ju</u> in the structure of the verb and stative, led me to the reconstruction of two original personal pronouns, Pers. Pron. I and Pers. Pron. II, as shown in <u>Morphology of Akkadian pp</u>.

38f. and 46, and below under 8.2 and 8.3. The sequence of the Pers. Pron. I and II is given in reversed order in this monograph to conform with the sequence of <u>ju</u>(Pers. Pron. I)+<u>sa</u>(Pers. Pron. II)+<u>mhir+u</u>, discussed above.

Since I consider the reconstruction of the two personal pronouns one of the most important contributions of my <u>Morphology of</u> <u>Akkadian</u>, the realization of what limited influence it exerted on scholars who have had at their disposal a copy of my <u>Morphology</u> is quite disappointing. Moscati, <u>ICG</u> pp. 102-113, follows the traditional path in every respect; Diakonoff, <u>SHL</u> pp. 69-77, while recognizing personal pronouns of type I and II, proposes a reconstruction which differs decisively from my own.

After a careful restudy of the manifold questions pertinent to the two personal pronouns, I find little doubt remaining about the reconstruction of Pers. Pron. II, and so, I hope, eventually, will others. Complete acceptance of my reconstruction of Pers. Pron. I will, in all likelihood, depend on how scholars view my reconstructions based on the pronouns of the 3rd person, ju and ja.

## 8.2. Personal Pronoun I

As shown in <u>Chart 67</u>, Pers. Pron. I is attested in Akkadian as 1) independent pronouns with <u>an</u>+, 2) as prefixes in the fientive verb, and 3) as suffixes in the stative. This pronoun appears in all Semitic languages and it can largely be reconstructed also in Hamitic.

The element <u>an</u> of the independent pronoun occurs in the Akkadian demonstrative pronoun <u>annijum</u>, <u>annijatum</u>, <u>annijutum</u>, <u>annijatum</u> "this (here)," opposed to <u>ammijum</u>, etc., "that (there)"

	INDEPEN	IDENT	AFFIXA	L
	RECONSTRUCTED	ATTESTED	PREFIXAL IN VERB	SUFFIXAL IN STATIVE
Sg. lc.	*(>)a	°an+a(+ku)	°a+mhur+u	mahir+āku
2m.	*tu	a °an+t <b>y</b> í	a tµ(+mhur+u	a mahir+tx
2 <b>f</b> .	*ti	°an+ti	tŽ+mhur+i	mahir+ti
3m.	* ju	* 'an+ju	j∦+mhur+u	mahir+ <b>∦</b> u
3f.	* ja	* `an+ja	t ja+mhur+a	mahir+ja
P1. lc.	*na	°an+nanu?	na+mhur+u	mahir+na
2m.	*tunu	°an+tunu	tØ+mhur+u	mahir+tunu
2f.	*tini	°an+tin#	tÌ+mhur+Ì	mahir+tin#
3m.	* jū	* <sup>&gt;</sup> an+ju	jä+mhur+ü	mahir+Ju
3f.	* jā	* <sup>,</sup> an+jā	ja+mhur+ä	mahir+ <b>ja</b>

Chart 67. Personal Pronoun I.

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in Assyrian and to <u>pullijum</u>, etc. (attested <u>ullum</u>) "that (there)" in Babylonian. The secondary doubling of the consonant is attested also in <u>mannum</u> "who?" from <u>man</u>. For <u>pannijum</u> see also the end of this section.

Parts of <u>Chart 67</u> pertaining to the verb and stative differ in detail from <u>Charts 69</u> and <u>80</u> under the verb (9.2) and the stative (10), because of the different aims of these charts.

The following discussion will begin with notes to the reconstructed independent pronoun.

The First Person. The pronoun <u>a</u> appears as <u>a</u> in <u>a+mhur+u</u> of the verb and in <u>an+a</u> of the pronoun in Arabic, etc., but as <u>a+ku</u> of <u>an+a+a+ku</u> in <u>anāku</u>, etc., and of <u>mahir+a+ku</u> in <u>mahirāku</u> in Akkadian, etc. <u>A</u> becoming <u>a</u> is regular, with the possible exception of <u>annaku</u>, reconstructed from the Assyrian <u>annuku</u> (with vowel harmony), written clearly <u>an-nu-ku</u> in R. F. Harper, <u>Assyrian</u> <u>and Babylonian Letters</u> VI (Chicago, 1902) No. 555 rev. 9 (but also <u>a-na-ku</u> in line 8 = standard <u>anāku</u>). <u>Ku</u> of <u>a+ku</u> represents some ossified pronominal element of the lst person Sg. (as in Latin <u>ego</u>, cuneiform Hittite <u>anmuk</u>). Forms without <u>+ku</u> occur in <u>anā</u> of Arabic, etc. I do not know of Old Babylonian <u>ana</u>, cited in Moscati, <u>ICG</u> p. 103; if the spelling <u>a-na</u> is attested the reconstruction to <u>a-na-<ku></u> should be considered. The vowel <u>i</u> of Hebrew <u>a<sup>a</sup>n+i</u> and <u>ana-<ku></u> should be considered. The vowel <u>i</u> of Hebrew <u>a<sup>n</sup>+i</u> and <u>anā/anā/sh+i</u> is derived from <u>i</u> of the lst person of the Pers. Pron. II.

The reconstruction of the personal pronoun of the lst person Pl. as <u>na</u> is based on <u>na+mhur+u</u> in the verb and <u>mahir+na</u> in the stative. The attested forms of the independent pronoun in Semitic are  $(\underline{a})$ nahnu and  $(\underline{a})$ nahna. The laryngeal <u>h</u> may have influenced

the change from <u>nahnu</u> to <u>nênu</u>, <u>nînu</u> in Akkadian. The form <u>ean+nanu</u>?, as reconstructed on the chart, consists of the original <u>na</u> plus <u>nu</u> borrowed from <u>ean+tunu</u>. The intrusive <u>h</u> cannot be explained. The interpretation <u>ean+ea+nu</u>, in which <u>ea+nu</u> is taken as the Pl. of <u>ea</u> (proposed in my <u>Morphology of Akkadian pp. 44 and 48</u>), cannot be retained because of the existence of <u>na+mhur+u</u> in Arabic, with short <u>u</u>, not <u>u</u>.

<u>The Second Person</u>. The Sg. pronoun <u>tu</u> of <u>an+tu</u> is reconstructed from the Pl. <u>an+tu+nu</u>. Since the Pl. is regularly formed by prolonging the gender vowel of the Sg., <u>u+nu</u> in the Pl. <u>an+t+u+nu</u> (from <u>an+t+u+u</u>, see 2.1) presupposes <u>u</u> in the Sg. <u>an+t+u</u>. It is hard to judge how seriously to take the unique occurrence of <u>attu</u>, written <u>at-tu</u>, in a lexical text (<u>CT XIX 6, K. 11155 ii 6 = 12, K.4143:4</u>, beside <u>su-u</u> "he"). Masc. personal pronouns everywhere else have the vowel <u>u</u>. For parallels cf. Sg. <u>s+u</u>, <u>k+u</u>, Pl. <u>s+u+nu</u>, <u>k+u+nu</u> in Pers. Pron. II (8.3).

The Fem. <u>ti</u> is formed with the vowel <u>i</u>, as expected. Cf. Sg. <u> $\check{s}$ +i</u>, <u>k+i</u>, Pl. <u> $\check{s}$ +i+na</u>, <u>k+i+na</u> in Pers. Pron. II (8.3).

<u>The Third Person</u>. Ju with j in ju+ša+mhir+u, ju+mahhir+u (and ju+bil+u) occuring or reconstructed in West Semitic languages, can now be proved for Old Akkadian and consequently for common Semitic. See <u>MAD</u> II<sup>2</sup> pp. 164f.

The Masc. Sg. of the stative has  $\underline{\emptyset}$  in historical Akkadian, as in <u>mahir</u>, but its reconstruction as <u>mahir+u</u> is posited by the corresponding Pl. <u>mahir+u</u>. Amorite has <u>u</u>, as in <u>Haddu+râm+u</u> "Haddu is high above," but also <u>um</u> (parallel to <u>un</u> in the Pred. St. of nouns in Arabic),  $\underline{\emptyset}$  (as in Akkadian), and <u>a</u> (of the West Semitic perfect). See Gelb in <u>Symbolae Kuryžowicz</u> pp. 76f. The written Egyptian

pseudo-participle ends in w or j. See also 10. STATIVE.

The only recorded marker of the Fem. Sg. of the stative (or nominal predicate) in the grammars of Akkadian and other Semitic languages is <u>at</u> (and secondarily <u>a</u>, as in Hebrew). Contrariwise, the existence of the common Semitic Pl. form <u>mahir+a</u> posits the existence of the corresponding Sg. <u>mahir+a</u>. This can now be proved by the evidence collected and discussed by Gelb in <u>Symbolae Kury?owicz</u> pp. 74 and 76. In contrast to <u>at</u> of standard Akkadian, many personal names, especially in the Old Akkadian period, have <u>a</u>, as in <u>Si+tab+a</u> "she is good" and <u>Eštar+dam?q+a</u> "Eštar is good." The Amorite evidence shows only <u>a</u> (never <u>at</u>) in the predicate position, as in "UmmI+tab+a "my mother is good" and Dašur+a+cAštar "cAštar is old."

On the basis of the generally recognized interpretation of <u>mahir+aku</u> "received am I," <u>mahir+ta</u> "received art thou," etc., it would seem natural to interpret <u>mahir+u</u> as "received is he," and <u>mahir+a</u> "received is she," leading to the possibility that the final <u>u</u> and <u>a</u> originally represent the personal pronouns of the 3rd person, Masc. and Fem. respectively.

The assumption that the marker <u>u</u> of the stative represents an original personal pronoun is not so farfetched when one notes the widespread use of the pronominal copula in Semitic languages. Cf. <u>annuku anniju šulmānu šut</u> "this tin is 'payment'" or <u>almattu šit</u> "she is a widow" in Middle Assyrian, <u>şaddīq hū Jahwē</u> "Jahwe is just" or <u>'attā hū malkī</u> "thou art my king" in Hebrew, and similarly in other Semitic languages. See B. Hartmann, "Zur Kopula im Hebräischen," <u>Oudtestamentische Studien</u> XIV (1965) pp. 115-121. Even more instructive in this connection is the Akkadian construction of the type <u>nēšu ša şêrišu</u> "the lion of the (sic, not 'his')

steppe," where  $+\underline{su}$  represents the original pronoun  $\underline{su}$  used as a copula.

The question is whether the markers u and a of the stative correspond to the Pers. Pron. ju (and ja), which we found above in the causative forms of ju+sa+mhir+u, or whether they are simply markers of the gender and case of the noun. The answer which I would propose is that the markers <u>u</u> and <u>a</u> of the stative, gender, and case are of identical origin, all being derived from the Pers. Pron. ju and ja, As amply illustrated under 1.1, the markers of gender are u for the Masc. and a/i for the Fem. As shown under 3.4, the markers of case, <u>u</u> for the Nom. and <u>a/i</u> for the Gen. and Acc., are identical with the markers of gender. The evidence that the markers of case were introduced into the system at a different date and later than the markers of gender was presented under 3.6. If the reconstructed ju and ja of the stative (or predicate) is to be taken as the Pers. Pron., it would seem natural to suggest that the nouns kalb+u in Masc. and kalb+a in Fem. are to be reinterpreted as original kalb+ju "dog + he" and kalb+ja "dog + she," respectively.

This interpretation of the Nom. case morpheme as derived from the pronoun <u>ju</u> differs from that of Philippi <u>apud</u> Brockelmann, <u>GVG</u> I § 245a, who proposed to derive the Nom. ending from the pronoun <u>hu</u> "he." <u>Charts 67-68</u>, illustrating the distribution of the Pers. Pron. I and II (or any other charts pertaining to personal pronouns), show that the Pers. Pron. I <u>ju</u>, occurring in the verb and probably in the stative, has nothing to do with the Pers. Pron. II <u>hu</u> (or <u>su</u> in other Semitic languages). The latter is found only in the function of an independent and suffixal pronoun.

In hunting for additional support in favor of the existence of the pronouns ju, ja, I found the following possible, but quite uncertain, evidence:

As noted above, the Egyptian pseudo-participle ends not only in  $\underline{w}$ , but also in  $\underline{j}$  in the 3rd person, and this  $\underline{j}$  reappears quite regularly in other persons of the pseudo-participle. Considering the difficulties with the vocalization and irregularities of the  $\underline{w}$  and  $\underline{j}$ signs in the Egyptian writing (see, e.g., Edel, <u>Altägyptische</u> <u>Grammatik</u> I pp. 62-66, esp. pp. 64f., for the  $\underline{j+w}$  and  $\underline{w+j}$  combinations), it would seem preposterous to make any suggestions as to the linguistic form of the 3rd person of the Egyptian pseudo-participle. Still, the question should be posed: can the Egyptian spellings be interpreted as  $\underline{ju}$ , which would correspond to the original  $\underline{ju}$ posited above for the Proto-Semitic stative?

At the beginning of 8.2 we had occasion to refer to the existence of the demonstrative pronoun <u>"annijum</u> "this" in Akkadian. The unprejudiced way to analyze this pronoun is as <u>"an+i+u+m</u>, that is, the deictic element <u>"an</u> "here," plus the Gen. <u>i</u>, plus <u>u(m)</u> which nominativizes the genitival complex, as in <u>Aššurijum</u> "Assyrian" from <u>Aššur+i+u+m</u> (for which see 7.2). On the other hand, since <u>"an</u> means "here" and <u>ju</u> means originally "he (here)" (see above), it may be possible to suggest that <u>"annijum</u> goes back to <u>"an+ju</u>, just as <u>"annija(tum)</u> may go back to <u>"an+ja</u>, and similarly for the Pl. However, we face difficulties with this interpretation in explaining "there + he (here)," which is obviously impossible. The difficulty could be obviated only by assuming that the "here" meaning of the Pers. Pron. I ju, ja was lost by the time the fully adjectival de-

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monstrative pronouns <u>annijum</u>, <u>ammijum</u>, and <u>ullijum</u> were created.

No matter how we interpret the origin of the suffix of the 3rd person of the stative, there is no doubt that the suffixes  $\underline{u}$ ,  $\underline{a}$ ,  $\underline{\bar{u}}$ , and  $\underline{\bar{a}}$  no longer represent the original Pers. Pron. I, but are simple markers of gender, number, and case in the noun. In that function the same markers are used also in the suffixes of the 2nd person of the stative and the fientive verb. The markers  $\underline{i}$  and presumably  $\underline{\bar{i}}$ in the 2nd person of the Fem. are to be taken as allomorphs of the Fem.  $\underline{a}$  and  $\underline{\bar{a}}$ . See <u>Chart 67</u>.

For a further discussion of ju and its ju, ji, ja allomorphs, see 9.2.

#### 8.3. Personal Pronoun II

As shown in <u>Chart 68</u>, the Pers. Pron II is used as an independent and suffixal pronoun.

The Nom. forms of the independent Pers. Pron. II, here reconstructed as  $*\underline{i}$ ,  $*\underline{ku}$ , etc., are nowhere to be found in the grammars of Akkadian, of other Semitic languages, or in comparative grammars, with the exception of  $\underline{\check{su}}$ ,  $\underline{\check{si}}$ , etc., which is regularly assigned to what I call Pers. Pron. I. The existence of the Nom. forms  $*\underline{i}$ ,  $*\underline{ku}$ , etc., can be <u>a priori</u> posited on the basis of the occurring forms of Pers. Pron. II in the Gen./Acc. and Dat. and of the Poss. Pron. Their reconstruction can be further strengthened by the following evidence:

The Hebrew Pers. Pron. for the 1st. person Sg. has two forms <u>>ānōki</u> (Amarna written <u>a-nu-ki</u>), which corresponds to our Pers. Pron. I, and <u>><sup>a</sup>ni</u>, composed of <u>>an</u>, discussed under Pers. Pron. I, plus <u>i</u> of Pers. Pron. II.

Old Egyptian has the following forms of the Pers. Pron., which

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		:	INDEPENDENT		SUFFIXAL			
		Nom.	Gen./Acc.	Dat.	Poss.	Gen. kalbu	Acc. jamhuru	Dat. jamhuru
Sg.	lc.	*i	i+ati	i+ašim	i+aum	+i(a)	+i¢ +ni¢	+Zam +iam
	2m.	*ku	ku+ati	ku+ašim	ku+aum	+kyla	+kyla	+ku <b>á</b> m
	2 <b>f</b> .	*ki	ki+ati	ki+asim	*ki+aum	+ki#	+ki <b>ź</b>	+ki <b>a</b> m
	<u>3</u> 0.	šu	su+ati	su+asim	su+aum	+ธนส	+sua	+suam
	3f.	ši	ši+ati	ši+ašim	si+aum	+sža +šia	+sža +siz	+ši¢m
P1.	lc.	*ni	ni+ati	ni+ašim	ni+aum	+ni <b>s</b> í	+niati	+niašim
	2m.	*kunu	kunu+ati	kunu+ <b>a</b> sim	kunu+aum	+kunu <b>a</b>	+kunug(ti)	+kunuasim
	2f.	*kini	kinž+ati	kinž+ašim	*kinž+aum	+kinža	+kin <b>ž</b> a(ti)	+kin <b>f</b> ašim
	3m.	šunu	šunu+ati	šunu+sim	sunu+aum	+sunu <b>s</b> +sunža	+šunu#(ti)	+šunužšim
	3f.	šini	šin <i>ž</i> +ati	šin <b>∦</b> +ašim	*šin <u>†</u> +aum	+šin <b>ž</b> a	+šin#a(ti)	+šin <b>i</b> ašim

Chart 68. Personal Pronoun II.

can be used both in the subject and object cases, according to Edel, <u>Altägyptische Grammatik</u> I pp. 75-79:

Sg.	lc.	wj, wjj, and jw	P1.	lc.	*n
	2 <b>m</b> .	kw and <u>t</u> w		2c.	<u>t</u> n
	2 <b>f</b> .	tm and tn			
	3m.	SW		<u>3</u> c.	sn
	3f.	si			

The crucial point connected with the Egyptian spellings is: do the spellings <u>kw</u>, <u>sw</u>, <u>sj</u> stand for <u>ku</u>, <u>su</u>, <u>si</u> (or secondarily <u>ku</u>, <u>su</u>, <u>si</u>), and therefore for the original subject (Nom.) case, which was used secondarily also for the object case? Or do these spellings stand for <u>kuwa</u>, <u>suwa</u>, <u>sija</u>, and therefore for the original object case, which was used secondarily also for the subject case?

The Egyptian spellings <u>kw</u> and <u>tw</u> clearly indicate the vowel <u>u</u> for the Masc. form of the 2nd person. The same vowel <u>u</u> occurs also in the independent pronouns <u>ku+ati</u>, <u>ku+ašim</u>, and <u>ku+aum</u>, and in the suffixal Dat. pronoun +<u>kum</u> in <u>jamhuru+kum</u> of Akkadian. In addition to this factual evidence in favor of <u>ku</u>, the occurring and reconstructed evidence shows the marker <u>u</u> for the Masc. (and <u>i</u> for the Fem.) in all the persons of the Pers. Pron. I and II which have gender distinctions, that is, the 2nd and 3rd persons of both Sg. and Pl. On the other hand, the vowel <u>a</u> is found in the suffixal pronoun +<u>ka</u> in <u>kalbu+ka</u> and <u>jamhuru+ka</u>. My interpretation of <u>ka</u> as going back to <u>ky/a</u> is based on such evidence as <u>ju+šy/a+mhir+u</u>, <u>šy/a</u> (Det. Pron.) <u>kalby/am</u>, etc., gathered under 3.5.

Based solely on the existence of <u>ka</u> in <u>kalbu+ka</u> and <u>jamhuru+ka</u>, all the grammars of Semitic languages, without any exception, posit <u>ka</u> (and not <u>ku</u>) as the underlying form for Proto-Semitic and all

Semitic and Hamitic languages. Indicative of the general trend on this question is B. Kienast's opinion (expressed in <u>Aktendes Vierund-</u> <u>zwanzigsten Internationalen Orientalisten-Kongresses München</u> [Wiesbaden, 1959] p. 255) that the <u>u</u> of <u>ku</u>, in <u>kuati</u>, <u>kuaum</u>, etc., is derived secondarily and by analogy from the <u>u</u> of <u>su</u>, in <u>suati</u>, <u>suaum</u>, etc.

The reconstruction of the Masc. Pers. Pron. for the 2nd person as <u>ka</u>, based solely on <u>ka</u> in <u>kalbu+ka</u> and <u>jamburu+ka</u>, overlooks the weighty evidence in favor of <u>ku</u> to be found in Akkadian and Egyptian (and other Hamitic languages, not recorded here). The reconstruction of <u>ka</u> goes back traditionally to the fathers of Semitic studies centuries ago, when only West Semitic languages were known, and has no <u>raison d'être</u> in the light of the new evidence. See also above pp. 9f.

## 8.4. General Discussion

Some general remarks are needed about the mutual relations of Pers. Pron. I and II.

There is a clear consonantal differentiation in the Pers. Pron. I and II in the 2nd and 3rd persons between  $\underline{tu}$  and  $\underline{ku}$  (and similarly for Fem. and Pl.) and  $\underline{ju}$  and  $\underline{su}$  (and similarly for Fem. and Pl.). But we note certain phonetic similarities in the 1st person between  $\underline{a}$  and  $\underline{i}$  in Sg. and <u>na</u> and <u>ni</u> in Pl. Thus  $\underline{a}$  and <u>na</u> of Pers. Pron. I may represent dialectal variations of  $\underline{i}$  and <u>ni</u> of Pers. Pron. II, respectively.

It might be suggested that the original distinction between the here-deixis of Pers. Prom. I and the there-deixis of Pers. Pron. II, fairly well provable for  $\underline{ju}$ ,  $\underline{su}$  of the 3rd person, and possible, but not provable, for  $\underline{tu}$ ,  $\underline{ku}$  of the 2nd person, did not apply to the 1st

person.

In historically attested usage, the independent Pers. Pron. I ju was replaced by the Pers. Pron II  $\underline{su}$ , and all the differentiations between the here-deixis and there-deixis were lost. At the same time, a redistribution of the two pronouns took place. Pers. Pron. I was used only as the independent pronoun in the subject (Nom.) case. Pers. Pron. II was used as the independent pronoun in the object case (Gen., Acc., Dat.) and in the secondarily derived Poss. Pron., as well as in the suffixal pronoun.

9.

## 9.1. Introductory Remarks

In any verbal form we can easily recognize certain affixes surrounding the stem. Thus in a verbal form such as  $\underline{ju+s}\underline{s}\underline{s}\underline{+ta+m}\underline{s}\underline{h}\underline{i}\underline{r}\underline{u}$ , we recognize affixes in the form of prefixes ( $\underline{ju}$ ,  $\underline{sa}$ ,  $\underline{ta}$ ) and suffixes ( $\underline{u}$ ). Both the prefixes and suffixes represent sequential morphemes, each of which has a specific function. Of all these verbal affixes, the first of the prefixes, namely  $\underline{ju}$  (and all others of the same order), and the first of the suffixes, namely  $\underline{u}$  (etc.), are called inflectional morphemes and are discussed below under 9.2. The second and third (and others of the same order) of the prefixal sequential morphemes are discussed under 9.3. The discussion of the simple verbal stem in the fientive verb and verbal nouns will be taken up under 9.4.

## 9.2. Inflectional Morphemes

The inflectional morphemes occur in the fientive verb and imperative. Those occurring in the fientive verb are illustrated in <u>Chart</u> <u>69</u>. This chart of the verb differs in several details from <u>Chart 67</u> under Pers. Pron. I (8.2) because of the different aims of the two charts. The imperative appears without the first prefixal morpheme.

In <u>Morphology of Akkadian</u> (1952) pp. 53-56 I proposed, with some hesitation, a reconstruction of the verbal inflectional morphemes. Almost from the beginning, the system which I proposed there appeared to me to contain so many questionable points, that in distri-

	RECONSTRUCTED	ATTEST	ED
		AKKADIAN	OTHER SEMITIC
Sg. lc.	°a+mḫur+u	°a+mhur+¥	°a+mḫur(+u)
2 <b>m</b> .	tu+mhur+u	ta+mhur+d	ta+mhur(+u)
2 <b>f</b> .	ti+mhur+i	ta+mhur+i	ta+mhur-i(+na)
3m.	ju+mhur+u	ja+mhur+x	ja+mḫur(+u)
3 <b>f</b> .	ja+mhur+a	t a ja+mhur+a	ta+mhur(+u)
Pl. lc.	na+mhur+u	ni+mhur+#	na/ni+mhur(+u)
2m,	tu+mhur+u	ā ta+mhur+d	ta+mhur+u(+na) ta+mhur+na
2f.	ti+mhur+i	ā ta+mhur+≵	ta+mhur+a(+na) ta+mhur+na
3m.	ju+mhur+ū	ja+mhur+u	ja+mhur+u(+na)
3 <b>f</b> .	j <b>a+m</b> hur+ā	ja+mḫur+ā	ja+mhur+ā(+na) ja/ta+mhur+na

Chart 69. Fientive Verb.

buting copies of that monograph I felt obliged to add a note of warning about the weakness of my verbal reconstruction.

Even now, after repeated efforts over many years, I have not succeeded in reconstructing one single system of inflectional morphemes which I feel could stand the test of time. Therefore, instead of proposing one controversial system, what I prefer to present below is the several steps which may have taken place in the evolution of the Proto-Semitic verbal system over a long span of time.

As noted above, the verbal inflectional morphemes consist of the first prefix and the first suffix.

Various possibilities in the development of the prefixes and suffixes are indicated in <u>Chart 70</u>, <u>a</u> to <u>g</u>.

I assume that in the first stage differences in number, but not necessarily those of gender and mood / case, must have been denoted. The differences are marked by six different pronouns,  $\frac{2a}{a}$ ,  $\frac{ta}{ta}$ ,  $\frac{ja}{a}$ ,  $\underline{na}$ ,  $\underline{x}$ , and  $\underline{y}$ , as shown under  $\underline{a}$ . Remnants of this stage are the prefixes of the 1st person,  $\frac{2a}{a}$  "I" and  $\underline{na}$  "we," which lack gender and case differentiations in all phases of Semitic languages.

The first prefix to develop a marker of gender and number may have been that of the 3rd person, <u>ju</u>, <u>ja</u>, <u>ju</u>, and <u>ja</u>, as indicated under <u>b</u>. The best evidence is to be found in the gender and number differentiations in the 3rd person of the stative (see 8.2 and <u>Chart</u> <u>67</u>) and in the noun (see 8.2).

The creation of full gender and number differentiations is shown under <u>c</u> and <u>d</u>. In contrast to <u>ju</u>, <u>ja</u>, <u>ju</u>, and <u>ja</u> of the 3rd person of the stative, with the gender markers <u>u</u> for Masc. and <u>a</u> for Fem., and the number markers,  $\emptyset$  for Sg. and the doubling of oi.uchicago.edu

190		Sg					P1.	•		
	lst	2n	đ	3	rd	lst	2 <b>n</b>	d	3r	đ
		Masc.	Fem.	Masc.	Fem.		Masc.	Fem.	Masc.	Fem.
a)	°a	ta		j	a	na	x		У	
Ъ)	°a	ta		ju	ja	na	x		jū	jā
c)	°a	tu	ti	ju	ja	na	tū	tī	jū	jā
d)	°a	tu	ti	ju	ja	na	tunu	tini	jū	jā
e)	°au	tuu	tii	juu	jaa	nau	tūū	tii	jūū	jāā
f)	²au	tuu	<b>tii</b>	juu	jaa	nau	tuū	tii	juū	jaā
g <sub>1</sub> )	°a.₊u	tau	tai	jau	tau	nau	taū	ta <b>ā</b>	jaū	jaâ
g <sub>2</sub> )	'iu	tiu	tii	jiu	tiu	niu	tiū	tiā	jiū	jiā
g3)	°ų₊"u	tuu	tui	juu	tuu	nuu	tuū	tuā	juū	juā

Chart 70. Inflectional Morphemes.

the gender vowel for Pl., the 2nd person of the stative has  $\underline{u}$  (not attested, but posited by the personal pronoun <u>pantunu</u>) for Masc. and  $\underline{i}$  for Fem. I leave it undecided as to whether the 2nd person had a  $\underline{t}\underline{u}$  and  $\underline{t}\underline{i}$  type of Pl. by analogy with the 3rd person (as shown under  $\underline{c}$ ), or <u>tunu</u> and <u>tinf</u> as actually attested in the pronouns <u>pantunu</u> a and <u>pantinf</u> and in the stative <u>mahir+tunu</u> and <u>mahir+tinf</u> (as shown under  $\underline{d}$ ).

In the four stages discussed up to now we have operated with a verbal system in which the inflectional elements were denoted only by prefixes. Remnants of this suffix-less verb are reflected in later years in some persons of the jussive of Arabic and other West Semitic languages, as in <sup>3</sup>a+mhur, ta+mhur, ja+mhur, and na+mhur.

Since the jussive, like imperative, cannot and does not indicate the mood / case differentiations, it would seem natural to assume that the mood / case of the fientive verb is of later creation.

The creation of the mood / case in the fientive verb was achieved by taking over the suffixes denoting case, together with gender and number, from the noun. The connection between the sequential morphemes of the noun and verb can be illustrated by Arabic qassab+un and ja+qtul+u, qassab+a/in and ja+qtul+a, qassab+una and ja+qtul+una, qassab+ina and ta+qtul+ina, or qassab+ani and ja+qtul+ani.

In many West Semitic languages the verb has <u>ma</u> or <u>n</u> in the Pl. and <u>ni</u> in the Du. following upon the preceding long vowels, as in the examples just above. This <u>ma</u> or <u>n</u> represents the numation in the verb, which marks the absence of the object and corresponds to the mimation / numation of the noun, for which see 4.3.

The processes by which the suffixes of the noun and pronoun entered the structure of the verb ( $\underline{e}$ ), with the subsequent

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loss of the length in the prefixes of the Pl. ( $\underline{f}$ ), and the secondary differentiation of the prefixal vowels ( $\underline{g_1} - \underline{g_3}$ ) are all matters of speculation and will not be discussed here. The latter reflects Barth-Ungnad's law of vowel differentiation in the prefixes  $\underline{ju}$ ,  $\underline{ji}$ ,  $\underline{ja}$  and in the stem, as in the transitive  $\underline{ja+mhur+u}$ ,  $\underline{ja+sbir+u}$ ,  $\underline{ja+rgum+u}$  and the intransitive-stative  $\underline{ji+slam+u}$ ,  $\underline{ju+mras+u}$ . Equally left aside is the question of the prefixal vowel differentiation shown in  $\underline{ju}$  of the D and Š formations, but  $\underline{ja}$  ( $\underline{ji}$ ,  $\underline{ju}$ ) of the B formations. Barth-Ungnad's law is operative in Ugaritic, Hebrew, Aramaic, and possibly Amorite. Secondary levellization of  $\underline{ju}$ ,  $\underline{ji}$ ,  $\underline{ja}$  to  $\underline{ja}$  (or the like) can be found in all Semitic languages, especially in Arabic; levellization to  $\underline{ji}$  ( $\underline{i}$ ) took place in Akkadian.

The following notes are added to the discussion of the forms of the suffixes in the fientive verb: The expected <u>u</u> occurs correctly in the Masc. forms  $\frac{3a+mhur+u}{a}$ ,  $\frac{ta+mhur+u}{a}$ , and  $\frac{ja+mhur+u}{a}$  in Sg., and in  $\frac{ta+mhur+u}{u}$  and  $\frac{ja+mhur+u}{u}$  in Pl. The lst person Pl. na+mhur+u (as in Arabic), with <u>u</u>, not <u>u</u>, shows that <u>na</u> is not a Pl. form of  $\frac{3a}{2}$  of the Sg., but an independent pronoun. All the variations and difficulties in respect to suffixes are found in the Fem. forms. Because of the 2nd person Sg. form  $\frac{ta+mhur+i}{t}$ , with <u>i</u>, the expected 2nd person Pl. should be  $\frac{ta+mhur+i}{t}$ , with <u>i</u>; instead, the latter occurs only as  $\frac{ta+mhur+a}{t}$ . Because of the 3rd person Fem. Pl.  $\frac{ja+mhur+a}{t}$ , the expected Sg. should be  $\frac{ja+mhur+a}{t}$ ; it is however,  $\frac{ta+mhur+u}{t}$  in Arabic, with the <u>u</u> suffix nowhere else attested in the Fem., and with the  $\frac{ta}{t}$  prefix, which must have come from the noun. See 3.7.

## 9.3. Prefixal Sequential Morphemes

In respect to the three fundamental aspects of a grammatical analysis, form, function, and position, my concern in this section is partly with form, but above all with position (sequence). Matters of function, well treated in grammars of Semitic, will not be discussed here.

The following four charts illustrate the fientive verb  $(\underline{71-73})$ and verbal nouns  $(\underline{74})$ . The entries in the charts pertaining to the fientive verb are presented in two different orders. Two charts  $(\underline{71-72})$  show the B formations separately from the D formations. The third chart  $(\underline{73})$  brings the B and D formations together; this was done mainly to illustrate the conclusion that D formations represent partial doubling of B formations, as discussed below under 9.4. The imperative of all formations corresponds to the Pret. without the prefixal inflectional element; it is not illustrated here. The reconstruction of the verbal nouns is given in <u>Chart 74</u>; they have the identical order of prefixal sequential morphemes as the fientive verb, except for the omission or replacement of the prefixal inflectional element.

The following explanatory notes to the charts are necessary:

The symbols "Pres." and "Pret." should not be taken too seriously. They can stand for either the tense (present and preterit) or the aspect (imperfective and perfective). See 9.4.

The normal assimilation of the consonant <u>n</u> to the following consonant in Akkadian is not marked in <u>Charts 71-72</u>, first, in

		P	REFIXE	5	STEM	ATTESTED		
		Pron. I	Pron. II	"Modal"		Akkadian	Other Semitic	
в	Pres.	ja	+Ø	+Ø	+máhar	jamáhhar	jəmahhər (Eth.)	
	Pret.	já	+Ø	+Ø	+mahar	janahar	janhuru	
BN	Pres.	ja	+n#	+Ø	+máhar	janamáhhar		
	Pret.	já	+n#	+Ø	i +mahar	ı jánamahar	janmahiru	
BNT	Pres.	ja	+n#	+ta	+máhar	janatamáhhar?		
	Pret.	já	+n#	+ta	+mahar	jánátamáhar	t 'e <b>x</b> tamhar? (Syr.)	
BNTN	Pres.	ja	+n#	+tana	+máhar	janátanamáhhar?		
	Pret.	já	+n#	+tana	+mahar	jánátanamáhar		
BT	Pres.	ja	+Ø	+ta	+máhar	jamtáhhar	jətmah(h?)ər (Eth.)	
	Pret	já	+Ø	+ta	+mahar	jámtahar	jətmahar (Eth.) jatmahiru	
BTN	Pres.	, ja	+Ø	+tana	+máhar	jamtanáhhar		
	Pret	ja	+Ø	+tan <b>a</b>	+mahar	jántanáhar		
ВŠ	Pres	. ju	+sa	+Ø	+m <b>a</b> har	jušemængar	(jāmaņər [Eth.])	
	Pret	. ju	+ša	+Ø	+møhir	jušanahir	jumhiru jamhir	
BŠT	Pres	. ju	+š¢	+ta	+mahar	jušatamahar	jāstamahər? (Eth.)	
	Pret	. ju	+š <b>#</b>	+ta	+ <b>u</b> ¢hir	jušatamahir	jastamahiru	
BŠTI	V Pres	. ju	+š <b>a</b>	+tana	+mahar	jušatanamahar		
	Pret	. ju	+š <b>a</b> t	+tana	+møhir	jušátanamáhir?		

Chart 71. Prefixal Sequential Morphemes, Fientive Verb, B Formations.

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		PR	EFIXES		STEM	ATT	ESTED
		Pron. I	Pron. II	"Modal"		Akkadian	Other Semitic
D	Pres.	ju	+Ø	+Ø	+mahhar	jumahhar	(jəmēhər [Eth.])
	Pret.	ju	+Ø	+Ø	+mahhir	jumahhir	jumahhir
DN	Pres.				•		
	Pret.						
DNT	Pres.						
	Pret.						
DNTN	Pres.						
	Pret.						
DT	Pres.	ju	+Ø	+ta	+mahhar	jumtahhar	(jətqētal [Eth.])
	Pret,	ุ jบ	+Ø	+ta	+mahhir	jumtahhir	jatamahhar hitmahher
DTN	Pres.	, ju	+Ø	+tana	+mahhar	jumtanahhar	
	Pret	, ju	+Ø	+tang	+mahhir	jumtanahhir	
DŠ	Pres	. ju	+š <b>a</b>	+ø	+mahhar	jušamahhar	(jāmēhər [Eth.])
	Pret	. ju	+š <b>a</b>	+Ø	+mahhir	jušamahhir	jāmahhər (Eth.)
dšt	Pres	. ju	+š <b>a</b>	+ta	+mahhar	jušatamahhar	(jästamēhər [Eth.])
	Pret	. ju	+s <b>#</b>	+ta	+mahhir	juš <b>s</b> tamahhir	jāstamaņņər (Eth.)
DŠTI	l Pers	. ju	+sa	+tana	+ாaђђаз	juš <b>stans</b> mahh	ar?
	Pret	. ju	+š#	+tan <i>a</i>	+mahhii	r jušatanámahh	ir?

Chart 72. Prefixal Sequential Morphemes, Fientive Verb, D Formations.

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196		PRE	FIXES		ST	EM	ATTESTED	(Akkadian)
		Pron. I	Pron. II	"Modal"	Pres.	Pret.	Pres.	Pret.
В		ja	+Ø	+Ø	+mahhar	u +mahar	jamahhar	jamhur
D		ju	+ø	+Ø	+mahhar	+mahhir	jumahhar	jumahhir
BN		ja	+n#	+Ø	+mahhar	i +mahar	jammabbar	jammahir
DN					98 No			
BNT		ja	+n#	+ta	+mahhar	+mahar	jattamahhar?	jattamhar
DN	T							
BNTN		ja	+na	+tana	+mahhar	+mahir	jattanamahhar?	jattanamhar
DN	ITN							
BT		ja	+Ø	+ta	+mahhar	+mahar	jamtahhar	jamtahar
DI	2	ju	+Ø	+ta	+mahhar	+mahhir	jumtaþþar	jumtahhir
BTN		ja	+Ø	+tana	+mahhar	+mahar	jamtanahhar	jamtahhar
מ	rn	ju	+Ø	+tana	+mahhar	+mahhir	jumtanahhar	jumtahhir
вš		ju	+ša	+ø	+máhar	+m#hir	jušamhar	jušamhir
D	Š	ju	+ <b>s</b> #	+Ø	+mahhar	+mahhir	jušmahhar	jušmahhir
BŠT		ju	+š <b>#</b>	+ta	+mahar	+mahir	juštamhar	juštamhir
D	ŠT	ju	+84	+ta	+mabhar	+mahhir	juštamahhar	juštamahhir
BŠIN		ju	+š <b>a</b>	+tana	+m/har	+mathir	juštanamhar	juštanambir?
D	šțn	ju	+š≢	+tana	+mahhar	+mahhir	juštammahhar?	juštammahhir?

Chart 73. Prefixal Sequential Morphemes, Fientive Verb, B and D Formations.

	STATIV	E	ACTIVE PARTICIPLE 197			
	Akkadian	Other Semitic	Akkadian	Other Semitic		
3	mahi/u/ar	maha/i/ur	māģir	māhir		
BN	namehur	nimhar 'inmahara	mun¢mahir	munmahir		
SNT	Aitamahur	t ?e <b>m</b> itamhar? (Syr.)	munstamshir	t memtamhar? (Syr.)		
BNTN	•µitanamahur?		*munatanamahir?			
3T	*tamahur > mitahur, witahar	tamahra 'imtahara, 'etqəber	*mutamahir > mumtahir	mutmahir		
BTN	*tanamahur > mitanahur		*mutanamahir > mumtanahir	<b>-</b>		
BŠ	šaméhur suméhur	°amhara	mušamahir	mumhir		
BŠT	*satanahur sutanahur	°istam <u>h</u> ara	musstamshir	mustamhir		
BŠTN	*šatanamahur? sutanamahur		•mušátanámáhir?			
D.	<sup>ա</sup> aђђur ասђђur	mahhara	mumahhir	mumahhir		
DT	*tamahhur > *matahhur, mutahhur	tamahhara	*mutamahhir > mumtahhir	mutamabbir		
DTN	*tanamahhur > *matanahhur, mutanahhur		*mutanamahhir > mumtanahhir			
DŠ	*šamahhur sumahhur	'amahhara 'asmahhara (Amh.)	mušønappir	? (Eth.)		
DŠT	*šatsmabbur sutsmabbur	°astamahhara	musatamahhir	mastaqattəl		
DŠTN	*satanamahhur *sutanamahhur		*musatanamahhir			

Chart 74. Prefixal Sequential Morphemes, Verbal Nouns,

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order to avoid the clutter of unnecessary details, and secondly, because this assimilation is unknown in many other Semitic languages. Thus the charts have janamanhar (BN), and not janamanhar. The latter, assimilated forms of Akkadian, are given correctly in Chart 73.

The original stress of such reconstructed forms as <u>jánatamahar</u> is marked in occurring forms as <u>jánatamahar</u> (BNT) with the same stress, even though the stress must have changed to the penult in <u>ittámhar</u>. This was done because of the difficulty in marking the changed stress on the charts.

The difficulties with the stress and the doubling of consonants in Ethiopic (Gə<sup>c</sup>əz) prevented me from citing some pertinent illustrations in the charts. From G. R. Castellino, <u>The Akkadian Personal</u> <u>Pronouns</u> . . . (Leiden, 1962) p. 129, I learn that Amharic has 'asmahhara, jasmahhər in DŠ.

For additional explanatory notes on Chart 74, see 9.4.

My reconstruction of the verbal formations of Akkadian and other Semitic languages shows no relation to the charts usually found in grammars of Semitic languages, much less to such traditional schemes as given by the Hebrew Qal, Nifcal Picel, etc., or the Arabic Qatala, Qattala, Qātala, etc. The reconstruction here proposed is based on the sequential reconstruction of the prefixal morphemes.

The charts are intended to cover Akkadian as well as other Semitic languages. They include mainly paradigmatic formations, although such secondary formations as <u>gatala</u>, <u>gawtala</u> of West Semitic have been omitted. Many more non-paradigmatic formations, especially in verbal nouns, but also in the fientive verb, could be added to the charts. For the verbal nouns, cf., e.g., in Akkadian <u>mahirum</u> "price" ("received things"), tamharum "battle," taqribatum "offering," šapšaqum

"trouble," <u>maplasum</u> "glance"; for the fientive verb, cf., e.g., <u>utaškin, litaškin</u> at Mari (<u>ARMT</u> XV p. 260), <u>putqudāta</u> at Ugarit (<u>MRS</u> IX p. 35:6), and the <u>mitqațțel</u> formation in (mainly late) Hebrew.

My use of the terms "paradigmatic" and "non-paradigmatic" should not lead scholars to assume that I believe in this distinctive use of the terms. "Paradigmatic" means what is usually and traditionally found in the sections on paradigms in grammars. "Non-paradigmatic" means what is not found in paradigms, but in the main body of grammars, often in obscure places, and at times qualified by such terms as "exceptions," "abnormalities," etc. Some scholars are willing to go even further than that, as can be gathered from the proposal that "the SD form should be deleted altogether from the grammars and dictionaries" (Speiser, Orientalia n.s. XXVII [1958] p. 25). In reaction against the peculiar attachment to paradigms -- artificial, haphazard, and so contrary to the concept of structure as they are--I have been collecting materials for years for a planned "Non-paradigmatic Grammar of Akkadian." As an example of what I have in mind, I refer to my discussion in BO XII (1955) p. 106a, where I treat the adjectives (and statives) such as qirbum, sihrum, etc., and qurbum, qudmum, etc., as being of the "non-paradigmatic" mihir and muhur formations respectively. This is in contrast to von Soden, who interprets these words as gerbum, gorbum, etc., and derives them via his nefarious "Vokalfärbungen" from the original garbum, etc.

The following pages are devoted to the discussion of the prefixal sequential morphemes.

As here reconstructed, the prefixal morphemes of the fientive

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verb appear in	three ranks.	See <u>Chart</u>	<u>75</u> .
Rank 1	Rank 2	Rank 3	
Pron. I	Pron. II	"Modal"	STEM
ju, ji, ja	+na	+ta+	B, BN, BNT, BT
ju, ji, ja	+na	+tana+	BNTN?, BTN
ju	+sa	+ta+	BŠ, BŠT, D, DT, DŠ, DŠT
ju	+sa	+tana+	BŠTN, DTN, DŠTN?

Chart 75. Ranking of Prefixal Sequential Morphemes.

Rank number 1 is occupied by markers  $\underline{a}$ ,  $\underline{ta}$ ,  $\underline$ 

The same rank number 1, which is occupied by the inflectional elements of the fientive verb, as in  $\underline{ju+s}\underline{s}\underline{s}\underline{+}t\underline{a}\underline{+}\underline{m}\underline{s}\underline{h}\underline{i}\underline{r}\underline{+}\underline{u}$  "he caused it to be received," is occupied also by <u>mu</u> of the Act. Part., as in <u>mu+s}\underline{s}\underline{+}\underline{+}\underline{a}\underline{+}\underline{m}\underline{s}\underline{h}\underline{i}\underline{r}\underline{+}\underline{u}\underline{m} "the one who caused it to be received." It is obvious therefore that <u>mu</u> of the Part. is the marker which signals the absence of the first inflectional element of the fientive verb. Note further that <u>mu</u> contains the vowel <u>u</u> of the subject case (Nom.), which corresponds exactly to <u>u</u> of <u>ju</u> of the fientive verb, where,</u> too, it denotes the subject of the action or state. See also 4.3.

For a similar case of a zero signal see 4.3, where  $\underline{m}$  of the mimation was found, via sequential reconstruction, to be the marker which signals the absence of the object. See also <u>ibid</u>. for a possible explanation of the origin of mu and  $\underline{m}$ .

Rank number 2 is occupied by the markers <u>na</u> or <u>sa</u>.

The form of the marker <u>na</u> is not fully established. Only <u>n</u> appears in the fientive verb, while <u>na</u>, <u>ni</u>, <u>sin</u>, and <u>n</u> occur in verbal nouns (<u>Chart 74</u>). Stress conditions may have resulted in <u>na</u> > <u>ná</u>, as in <u>sa</u> > <u>sá</u> and <u>ta</u> > <u>tá</u>. The marker <u>na</u> may represent an old pronoun, with some reflexive or passival function, later lost in Semitic. Its original status as a pronoun is deduced from the fact that <u>na</u> occupies the same rank number 2 as the marker <u>sa</u>, which is certainly a personal pronoun.

In accordance with the analysis of  $\underline{ju+\check{s}a+mhir+u}$  as  $\underline{ju}$  "he (here)," plus  $\underline{\check{s}a}$  "him (there)," plus <u>mhir</u> "receive," plus the suffix <u>u</u> (for which see 8.1), the infix  $\underline{\check{s}a}$  of the Š formation is taken to represent originally an independent pronoun, which I have classified as Pers. Pron. II. This is the morpheme which appears as <u>sa</u>, <u>ha</u>, or <u>'a</u> in other Semitic languages. The most common function of the Š formation is that of the causative.

Rank number 3 is occupied by the markers ta and tana.

The form of the marker <u>ta</u> (not <u>t</u>) can be ascertained by the preserved <u>ta</u> in such forms as <u>ittamhar</u> (BNT) and <u>uštamhar</u> (BŠT). In Akkadian (and occasionally in other Semitic languages) the marker <u>ta</u> appears in BT not as a prefix, but as an infix immediately after the first syllable of the verbal stem. The same is true of <u>ta</u> in DT and of the marker <u>tana</u> (discussed below) in BTN

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and DTN occurring in Akkadian only. The manifold uses of the T stem, in its reflexive, reciprocal, passival, separative, and temporal functions, cannot be discussed here.

The form of the marker <u>tana</u> (not <u>tan</u>) can be seen from such forms as <u>ittanamhar</u> (BNTN) and <u>uštanamhar</u> (BŠTN). See my critical comments about von Soden's "<u>tan-Stamm</u>" in <u>BO</u> XII (1955) p. 110a. Whatever the prehistoric origin of the marker <u>tana</u> may be, this marker cannot be analyzed as <u>ta+na</u> and taken to be composed of <u>ta</u>, a third-rank marker, plus <u>na</u>, a fourth-rank marker. Since this <u>na</u> never appears without <u>ta</u>, it is impossible to reconstruct a fourthrank <u>na</u> in <u>ja+na+ $\emptyset$ +na+mahar</u> or <u>ju+ša+ $\emptyset$ +na+mahar</u>. Distributionally, <u>tana</u> is of equal rank with <u>ta</u>, and both occupy rank 3. The <u>tana</u> marker is apparently found only in Akkadian, where it is normally used in an iterative, frequentative function.

The form of the marker <u>ta</u> and the function of <u>ta</u> (and, because of ranking, also of <u>tana</u>), require further study. It may very well turn out that <u>ta</u> appears in some ossified manifestations of a pronoun in other Semitic languages. For the time being, I call the third prefixal morpheme before the stem "modal."

# 9.4. Simple Verbal Stem

This section concerns the simple verbal stem, as it appears without the sequential morphemes in the fientive verb (<u>Charts 71-73</u>) and in verbal nouns (<u>Chart 74</u>).

For a number of explanatory notes to <u>Charts 71-74</u>, see above under 9.3. Some additional notes to <u>Chart 74</u> are necessary here.

<u>Chart 74</u> is divided into two main parts. The first part illustrates the stative or perfect in West Semitic languages. No

account has been taken of the Inf. in the charts, since the Inf. generally corresponds to the Stat. plus the suffixal sequential morphemes. The second part illustrates the active participle. For the sake of brevity imposed by the charts, the Part. is shown without the suffixal sequential morphemes.

Instead of <u>mahur</u>, the Akkadian Stat. has <u>mihur</u> in <u>mitahur</u> (Babylonian) or <u>mitah</u>ár (Assyrian) in BT and similarly in BTN.\* The vowel <u>i</u> is found also in the imperative of certain intransitive, or originally intransitive, verbs with a reflexive-reciprocal function, as in <u>kila</u>? "stop!," <u>limad</u> "learn!," and <u>šima</u> "listen!," in contrast to the fully transitive <u>sabat</u> "seize!," <u>ša</u>?<u>al</u> "ask!," etc. See Gelb in <u>BO</u> XII (1955) p. 110a. In all Š formations of the Akkadian Stat. the Assyrian dialect has <u>ša</u>, while the Babylonian dialect has <u>šu</u>; similarly in D, DT, and DTN formations Assyrian has <u>mahhur</u>, etc., while Babylonian has <u>muhhur</u>, etc. In all cases the Assyrian formations, with the vowel <u>a</u>, correspond to the posited Proto-Semitic formations.

<u>Chart 76</u> presents in a condensed form the simple stem without the sequential morphemes. Stress is marked either on the penult or as far from the end as possible; see also Chart 77.

Since the object of this study is primarily sequential morphemes, I must keep my remarks about the stems to a minimum and let the charts speak for themselves. I shall start the discussion with the fientive verb, to be followed by that of verbal nouns.

The B, BN, BNT, BNTN?, BT, and BTN formations have different stem vowels, <u>a</u>, <u>i</u>, <u>u</u>, as well as different inflectional elements, <u>ja</u>, <u>ji</u>, <u>ju</u>, which were noted above under 9.2 in the discussion of the Barth-Ungnad law. The stem is identical for both the Pres. and

PRESENTPRETERITFORMATIONSmåh/i/ur'm(a)ha/i/urB, BN, BNT, BNTN?, BT, BTN'máhar'máhirBŠ, BŠT, BŠTNmáh:armáh:irD, DT, DTN, DŠ, DŠT, DŠTN?2)VERBAL NOUNS:STATIVEPARTICIPLEFORMATIONSmáha/i/urmá:hirB'm(a)hu/ar'mahir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'm(a)hu/ar'máhir'máh:u/arnáh:irD, DT, DTN, DŠ, DŠT, DŠTN?	1)	FINITE VERB:	
'mAhar 'mAhir BŠ, BŠT, BŠTN máh:ar máh:ir D, DT, DTN, DŠ, DŠT, DŠTN? 2) <u>VERBAL NOUNS</u> : STATIVE PARTICIPLE FORMATIONS máha/i/ur má:hir B 'm(a)hu/ar 'mahir BN, BT, BTN 'm(a)hu/ar 'mAhir BNT, BNTN?, BŠ, BŠT, BŠTN?	PRESENT	PREFERIT	FORMATIONS
máh:ar máh:ir D, DT, DTN, DŠ, DŠT, DŠTN? 2) <u>VERBAL NOUNS</u> : STATIVE PARTICIPLE FORMATIONS máha/i/ur má:hir B 'm(a)hu/ar 'mahir BN, BT, BTN 'm(a)hu/ar 'mahir BNT, BNTN?, BŠ, BŠT, BŠTN?	•	· ·	
<ul> <li>2) <u>VERBAL NOUNS:</u></li> <li>STATIVE PARTICIPLE FORMATIONS</li> <li>máha/i/ur má:hir B</li> <li>'m(a)hu/ar 'mahir BN, BT, BTN</li> <li>'m(a)hu/ar 'mahir BNT, BNTN?, BŠ, BŠT, BŠTN?</li> </ul>	manar	manır	BS, BST, BSTN
STATIVE     PARTICIPLE     FORMATIONS       máha/i/ur     má:hir     B       'm(a)hu/ar     'mahir     BN, BT, BTN       'm(a)hu/ar     'máhir     BNT, BNTN?, BŠ, BŠT, BŠTN?	máh:ar	máh:ir	D, DT, DTN, DŠ, DŠT, DŠTN?
'm(a)hu/ar 'mahir BN, BT, BTN 'm(a)hu/ar 'mahir BNT, BNTN?, BŠ, BŠT, BŠTN?			FORMATIONS
'm(a)hu/ar 'mahir BNT, BNTN?, BŠ, BŠT, BŠTN?	máha/i/ur	má:hir	В
	'm(a)hu/ar	'mahir	BN, BT, BTN
máh:u/ar máh:ir D, DT, DIN, DŠ, DŠT, DŠTN?	'm(a)hu/ar	'mahir	BNT, BNTN?, BŠ, BŠT, BŠTN?
	máh:u/ar	máh:ir	D, DT, DTN, DŠ, DŠT, DŠTN?

Chart 76. Simple Verbal Stems.

Pret., with the following exceptions: 1) The first vowel of the stem, namely <u>a</u>, is elided everywhere in the Pret. of the B formation, as in <u>já+páqid+u</u>, <u>já+sábat+u</u>, <u>já+máhar+u</u>; 2) the second vowel of the <u>a</u>-vowel class of stems "ablauts" to <u>u</u> in the Pret. of the B formation, as in <u>já+máhar+u</u>, and to <u>i</u> in the Pret. of the BN formation, as in <u>ján</u>=+mahar+u

My reconstruction of the Pres. // Pret. stems discussed above is shown in <u>Chart 77</u>. I assume that the original distinction between Pres. and Pret. in the B+ formations lay in the stress. The stress was on the first syllable of the stem in the Pres., as in <u>ja+páqid+u</u> or <u>jana+</u> <u>páqid+u</u>, and as far from the end as possible in the Pret., as in <u>já+paqid+u</u> or <u>jána+paqid+u</u>. This led to two developments: 1) The doubling of the second consonant of the stem everywhere in the Pres., as in <u>ja+páqqid+u</u>, <u>jana+páqqid+u</u>, and <u>ja+pátáqqid+u</u>; 2) and the elision of the vowel <u>a</u> in the Pret., as in B <u>já+páqid+u</u> and BT <u>já+pátaqid+u</u> (but not in BN <u>jána+paqid+u</u>).

The next two classes of stems in <u>Chart 76</u>, namely '<u>mahar</u> and '<u>mahir</u> in BŠ, BŠT, BŠTN, and <u>máhhar</u> and <u>máhhir</u> in D, DT, DTN, DŠ, DŠT, DŠTN?, are differentiated by the latter having the second consonant of the stem doubled, as in <u>ju+máhhar+u</u>, <u>ju+máhhir+u</u>, contrasted with <u>júša+máhar+u</u>, <u>júša+máhir+u</u>. This characteristic doubling in the D stems appears clearly in the evidence gathered in Chart 73.

These two classes of stems have the following characteristics in common: 1) In contrast to the B+ stems, discussed above, they show no vowel-class differentiations; 2) they all have <u>ju</u> (and not the <u>ja</u>, <u>ji</u> prefixes) as the inflectional prefix; and 3) in contrast to

	PRESENT	PRETERIT
В	ja +páqid +u	já +paqid +u
BN+	jan#+paqid +u	jana+paqid +u
BT+	ja +ptáqid+u	já +ptaqid+u
В	ja +rágum +u	já +rægum +u
BN+	jang+ragum +u	jána+ragum +u
BT+	ja +rtágum+u	já +rtagum+u
В	ja +şabat +u	já +şabat +u
BN+	jan#+şabat +u	jana+şabat +u
BT+	ja +ştábat+u	já +ştabat+u
В	ja +máhar +u	u já +m <u>aha</u> r +u i
BN+	jang+mahar +u	jáná+mahár +u
BT+	ja +mtáhar+u	já +mtahar+u

Chart 77. Present and Preterit.

regular B+ stems, in which Pres. // Pret. differentiation is marked by stress, the BŠ+ and D+ stems regularly have <u>a</u> in the Pres., as in <u>jušamharu</u>, <u>jumahharu</u>, and <u>i</u> in the Pret., as in <u>jušamhiru</u>, <u>jumahhiru</u>. This <u>a</u> // <u>i</u> differentiation is apparent also in the B+ formations of the ablaut class of verbs, as in <u>jubbal</u>, <u>jillak</u>, <u>jiddan</u>, <u>jizzaz</u> in Pres., and <u>jubil</u>, <u>jillik</u>, <u>jiddin</u>, jizziz in Pret.

Passing now to the verbal nouns in <u>Chart 76</u>, we note first that the B stem has a Stat. with different vowels <u>a</u>, <u>i</u>, <u>u</u>, in accordance with the Barth-Ungnad law, as in <u>wasab</u>, <u>zaqin</u>, and <u>maruş</u>. The Part. of B is uniformly mahir.

The other stems require very few comments. The Stat. generally has the vowel  $\underline{u}$  in Akkadian, as in <u>satmathur</u>, <u>satmathur</u>. The Act. Part. uniformly has the vowel  $\underline{i}$  in the second position, as in <u>mutsatmathirtum</u>, <u>mutmathirtum</u>. The doubling of the second consonant is characteristic of all D formations.

Some observations about Arabic verbal stems are necessary: 1) Where Akkadian has <u>u</u> in the stems <u>mahur</u>, <u>mahhur</u>, as in <u>namahur</u>, <u>samahur</u>, <u>mahhur</u>, Arabic and some other Semitic languages have <u>a</u> in the stems <u>mahar</u>, <u>mahhar</u>, as in <u>inmahara</u>, <u>immahara</u>, <u>mahhara</u>. 2) In all except B formations Arabic has the vowel <u>i</u> in the stem <u>mahir</u> of the Act. Part., as in <u>mutmahirun</u>, <u>munmahirun</u>, but the vowel <u>a</u> in the stem <u>mahar</u> of the Pass. Part., as in <u>mutmaharun</u>, <u>munmaharun</u>. The same vowel variations affect the Act. and Pass. of the fientive verb in Arabic.

Relying on the Akkadian evidence and disregarding as irrelevant in the present context the doubling of the middle consonant of the stem, a number of conclusions can be drawn about the distribution of the various stem vowel classes, as shown in <u>Chart</u> 78.

		a	i	u
		mahar	mahir	mahur
<del></del>		Neutral	Punctual	Durative
Stat.	(B)	(mahar) wasab	paqid	ragum
Pres.	(B, BN, BT+)	jamahhar	japaqqid	jaraggum
Pret.	(B, BN, BT+)	jamahar	japaqid	jargum
Stat.	(all except B)			namahur
Pass. P	art. (all except B)			namahurum
Inf.	(all except B)			namahurum
Pres.	(all except B, BN, BT+)	jumahhar		
Pret.	(all except B, BN, BT+)		jumahhir	
Act. Pa	rt. (all except B)		mumahhirum	

Chart 78. Vowel Classes in Simple Stems.

Based on the Stat. of B, the two Akkadian "tenses," namely Pres. and Pret., have the following vowel differentiations in the B, BN, BT+ formations: <u>a</u> for the neutral action, <u>i</u> for the punctual action, and u for the durative action.

The fientive verb and verbal nouns of other formations yield different results. The vowel <u>a</u> is used in the Pres. <u>jumahhar; i</u> in the Pret. <u>jumahhir</u> and Act. Part. <u>mumahhirum</u>; and <u>u</u> in the Stat. namahur, Pass. Part. namahurum, and Inf. namahurum.

Further conclusions are: 1) The stem <u>mahar</u> of the <u>a</u> vowel class denotes a neutral action in the Pres.; 2) the stem <u>mahir</u> of the <u>i</u> vowel class denotes a punctual action in the Pret. and Act. Part., and consequently the perfective aspect; 3) the stem <u>mahur</u> of the <u>u</u> vowel class denotes a durative action in the Stat., Pass. Part., and Inf., and consequently the imperfective aspect.

Worded differently, the same conclusions are: 1) In the fientive verb, the Proto-Akkadian "Pres./Fut." had a neutral aspect, which presumably was neutral in respect to the tense; the "Pret." had a perfective aspect, which could well lead to the Pret. tense of later Akkadian. 2) In the verbal nouns, the Act. Part. denoted the perfective aspect, and the Pass. Part. the imperfective aspect.

It is obvious that the West Semitic Pres./Fut. aspect / tense of jumahhiru, jumhiru and the Perf. aspect / tense of mahhara, <sup>3</sup>amhara do not agree with the above conclusions, and should therefore be judged as secondary developments which took place in West Semitic languages.

The above conclusions were drawn simply by reading <u>Chart 78</u>, showing the distribution and function of the stem vowel classes, and without being influenced by the various theories concerning

the aspect / tense in Semitic languages. The question as to how these conclusions compare with current theories will be left unanswered here. I shall let other scholars weigh the evidence and provide the answers.

# 10. STATIVE

Beside "paratactic" phrase constructions of the type "subject I + subject II," as in "Sargon, the king," "Sargon, the good," "Sargon good," "good Sargon," the Semitic languages have standard nominal sentences of the type "subject I is subject II," in which subject II is a predicate, as in "Sargon is king," or "Sargon is good," or "he is good." Stative is a nominal sentence in which subject I can be a noun of any class, while subject II is a personal pronoun.\*

The structure of the stative is shown in Chart 79.

Subject I in Akkadian can be a primary noun, primary adjective, or an active or passive participle. We have thus <u>sarr+āku</u> "king am I," <u>zaqźn+āku</u> "old am I," <u>māḥir+āku</u> "recipient am I," or <u>maḥźr+āku</u> "received am I."

Subject I has no gender, number, or case. Thus there is <u>sarr+aku</u>, but no <u>sarrat+aku</u>, there is <u>sarr+anu</u>, but no <u>sarru+anu</u>. <u>Sarr+aku</u> means both "king am I" and "queen am I," and <u>sarr+anu</u> means "king are we" and "kings are we." In the latter case, the obvious meaning "kings" can be derived from subject II. In other cases, the Masc. or Fem. gender of subject I is in doubt, as in <u>labb+aku</u> "lion am I" or "lioness am I."

Subject II is originally Pers. Pron. I, which is fully discussed under 8.2. As such, it has clearly defined gender (except for the 1st person) and number, for which see the first two chapters of this monograph. The case / mood, discussed under 3.9, appears covertly in most instances.

		SUBJEC	ΓI			SUBJECT	II		
		STEM I	GEN.	NUM.	CASE	STEM II	GEN.	NUM.	CASE MOOD
Sg.lst	Masc./Fem.	mahir				+°ak			+u
2nd	Masc.	mahir				+t	+u	+Ø	+)ź
	Fem.	mahir				+t	<b>+i</b>	+Ø	+)1
3rd	Masc.	mahir				+j	+u	+Ø	+)
	Fem.	mahir				+j	+a	+Ø	+)á
Pl.1st	Masc./Fem.	mahir				+na			+)1
2 <b>n</b> d	Masc.	mahir				+t	+u	+_u	+)ź
	Fem.	mahir				+t	+i	+ <sub>n</sub> i	+)1
3rd	Masc.	mahir				+j	+u	+:	+)
<u> </u>	Fem.	mahir	<b>*</b> -	+ <b>-</b>		+j	+a	+:	+)4

Chart 79. Structure of the Stative.

For the suggestion that the original personal pronouns <u>ju</u> "he" and <u>ja</u> "she" of the 3rd person of the stative, after developing to <u>u</u> and <u>a</u>, respectively, became markers of the subject and object cases in the noun, see 8.2.

The important link between the stative and the noun, indicated above, is counterbalanced by the observation that the 3rd person of the Stat. is found with the Dat. pronominal suffixes, which occur only in the verb. Thus <u>mahr+am</u> (from <u>mahfr+p(+am</u>), meaning "received is he for me," is paralleled by <u>imhur+am</u> (from ja+mhur+p(+am), meaning "he received for me." Since there is no <u>kalb+am</u> (from <u>kalb+p(+am</u>) "dog is he for me," the occurrence of the Stat. with the Dat. pronominal suffixes links the Stat. with the verb.

As indicated by the term "subject," the subject II should denote the subject case, namely the Nom. This is shown clearly by the Nom. case of the nouns in predicate in Arabic, as well as in Amorite. For the latter, cf. e.g., <u>Haddu+râm+u</u> "Haddu is high above" and <u>Qâm+u+ma+>El</u> ">El is truly standing up" (Gelb in <u>Symbolae Kury≵owicz</u> p. 77). Akkadian has <u>mahir</u> in the Pred. St., but <u>mahir+u</u> in Sg. is posited because of the Pl. <u>mahir+u</u>. See also above under 8.2.

The secondary change of the subject case  $\underline{u}$  to the object case  $\underline{a}$ in Old Akkadian (as in <u>Ahi+tâb+a</u> "my brother is good") and in Amorite (as in <u>Abi+tâb+a</u> "my father is good"), and the further evolution of the tenseless Stat./Pred. of Akkadian to a full tense, namely perfect, in West Semitic (first, partially, in Amorite, later in Hebrew, Ugaritic, Arabic, etc.) is fully discussed by Gelb in <u>Symbolae</u> <u>Kuryłowicz pp. 72-80.</u>

The formal aspect of the Stat./Perf. in Akkadian and other Semitic languages is illustrated in Chart 80. The analogical changes

R	econstf	NUCTED	ATTEST	ED	
			AKKADIAN	OTHER SEMITIC I	LANGUAGES
				Arabic+	Ethiopic
Sg.	lc.	mahir+aku	mahžr+āku 	t mahir+Aku 11	mahir+aku ∱
	2m.	a mahir+tµ	↓ mahjir+āta	mahir+ ta	mahir+ za
	2 <b>f</b> .	mahir+ti	mahjir+āti	mahir+ti	mahir+ki
	3m.	mahir+ju	mahir+x	a mahir+x	a mahir+#
	3f.	mahir+ja	mahjir+a(t)	mahir+at	mahir+at
<b>Р1.</b>	lc.	mahir+na	mahjir+anu/i	mahir+na/nu	mahir+na
	2m.	mahir+tunu	mahjr+atunu	mahir+tun/mu	mahir+kumu
	2 <b>f.</b>	a mahir+tin≸	mahjr+atina	mahir+tina	mahir+kina
	3m.	mahir+jü	mahjźr+ū	mahir+û	mahir+u
	3f.	mahir+ja	maŋ‡r+ā	mahir+ā mahir+na	mahir+a

Chart 80. Stative in Semitic Languages.

are indicated in the chart by arrows. Please note that some Arabic, Ethiopic, etc., suffixes are cited in the chart in a partially reconstructed form.

The vowel  $\underline{\tilde{a}}$  of Akkadian <u>mahir+āta</u>, etc., comes by analogy from  $\underline{\tilde{a}}$  of <u>mahir+āku</u>, where it was original. The dropping of  $\underline{\tilde{a}}$  in <u>mahir+tu</u> of Arabic, etc., was influenced by the  $\underline{\tilde{a}}$ -less forms of <u>mahir+ta</u>, <u>mahir+ti</u>, etc. The same development is found in Ethiopic <u>mahir+ku</u>, where  $\underline{\tilde{a}}$  dropped out by analogy with <u>mahir+ka</u>, <u>mahir+ki</u>, etc. The <u>k>t</u> change in the lst person of <u>mahir+tu</u> of Arabic, etc., was caused again by analogy with <u>t</u> of the 2nd person, but <u>k</u> persists in dialectal Arabic, as in <u>walad+ku</u> "I bore" or <u>ra^aj+ku</u> "I saw"; see C. Rabin, <u>Ancient West-Arabian</u> (London, 1951) pp. 51f. The Ethiopic <u>k</u> in <u>mahir+ka</u>, <u>mahir+ki</u>, etc., of the 2nd person comes from the <u>k</u> of <u>mahar+ku</u> of the lst person. For similar dialectal parallels, cf. <u>balt-āka</u> "thou art alive," etc., in Akkadian (Gelb, <u>BO</u> XII p. 108b, with additions to von Soden, <u>GAG</u> § 75b).

## 11. CONCLUSIONS

1. <u>Linguistic Data</u>. Akkadian, like all other Semitic languages, has word classes composed of stems and affixes before and/or after the stem. Word classes having both stems and affixes completely dominate the structure of all Semitic languages. Affixes are found mainly in nouns (including substantives, adjectives, and participles), pronouns, verbs, and statives. Affixless word classes are represented mainly by adverbs, prepositions, conjunctions, interjections, and particles. See O.1.

2. <u>Sequential Morphemes</u>. All affixes are called here "sequential morphemes." They are called "sequential" because they appear in a certain ordered sequence. See 0.2.

3. <u>Sequential Reconstruction</u>. The procedures followed in the analysis of the sequential morphemes are subsumed under what is called here "sequential reconstruction." The two main steps in the sequential reconstruction are: each segment of a speech unit to be analyzed must be accounted for and its form and function determined; the markers for each segment must be denoted in their proper sequence within the speech unit. The two steps are not necessarily successive. See 0.3.

4. Order of Sequential Morphemes. The order of the sequential morphemes is absolute and immutable. I know of no instance of a morpheme which appears in the wrong sequential order.

#### 11. CONCLUSIONS

Among the suffixal morphemes, gender can never occur after number, nor number after case (or mood), nor case after object, nor object after enclitics. The same applies to the prefixal morphemes. See 0.3.

5. <u>Consecutiveness of the Sequential Order</u>. There is no skipping of a morpheme in sequential order. The morpheme of gender cannot be skipped before the morpheme of number, and the morphemes of gender and number cannot be skipped before the morpheme of case (or mood). Once the morphemes of number or case are established for a certain word class or its subdivision, the existence of the morphemes of gender, etc., whether overt or covert, must be accounted for and marked appropriately. See 0.3.

6. <u>Structural Limitations</u>. Structural limitations within certain word classes result in non-occurrence of certain morphemes. Thus the personal pronouns <u>anāku</u> "I" and <u>nīnu</u> "we" have no gender distinctions, and the number distinctions are indicated not by morphological, but lexical features. In contrast to the nominal <u>kalbu+</u> <u>ka</u> "dog of thee" (or <u>kalbu+m</u> "dog," in the absence of the suffixal pronoun), independent pronouns can have no object, as there is no <u>šu+ka</u> "he of thee" (and therefore no <u>šu+m</u>). Vocatives and imperatives, for obvious reasons, have no case or mood distinctions. See 0.3.

7. <u>Inconsistencies</u>. Certain apparent, but not real, inconsistencies in the sequential order are found in instances when a secondary marker is added to a primary marker for the purpose of strengthening the morpheme. For illustrations, see below No. 35.

8. Obligatory and Optional Morphemes. Morphemes are

normally obligatory, very rarely optional. Thus in the case of suffixal morphemes, the morphemes of gender, number, case (or mood), and object are all obligatory. The fifth-ranked morpheme, denoting the enclitics, is lexical and therefore optional. See 0.3.

9. <u>Overt and Covert Markers</u>. The morpheme markers are either overt or covert. All five overt markers are recognizable clearly in <u>kalb+a+:+\_u+m+ma</u> /<u>kalbātumma</u>/ "and bitches." The covert markers are denoted in two ways: by a cross-out, as in <u>kalb+u+:+y++šu+ma</u> /<u>kalbūšuma</u>/ "and his dogs," where <u>y</u> denotes the disappearance of <u>u</u>, the posited marker of the Nom. case; or by <u>Ø</u>, as in <u>ja+mhur+u+:+y++</u> <u>Ø+ma</u> /<u>jamhurūma</u>/ "and they received," where <u>Ø</u> denotes the absence of object (in this case, the pronominal suffix). See 0.3.

10. <u>Classes of Sequential Morphemes</u>. There are eight sequential morphemes, five of which are suffixal and three prefixal. This is the order in which they are discussed below. The eight classes of sequential morphemes are illustrated in <u>Chart 81</u>. See also <u>Chart 1</u> and 0.2.

11. <u>Suffixal Sequential Morphemes</u>. The five sequential morphemes denote gender, number, case (or mood), object, and enclitics, and occur in all inflected word classes, that is, in nouns, pronouns, verbs, and statives.

12. <u>Gender</u>. Rank number 1 after the stem is occupied by markers of gender, <u>u</u> for Masc. and <u>a/i</u> for Fem. Examples: <u>kalb+</u> <u>u+ $\emptyset$ + $\mu$ '+m "dog," <u>s+u+ $\emptyset$ + $\mu$ </u> "he" in Masc.; <u>kalb+a+ $\emptyset$ +</u><u>t</u><u>u+m</u> "bitch," <u>s+i+</u> <u> $\emptyset$ + $\mu$ </u> "she" in Fem. See 1.1. The consonant <u>t</u> is not a part of</u>

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	PREFIXAL			STEM	SUFFIXAL				
Rank (Sequence)	l	2	3	STEM	1	2	3	4	5
Function (Meaning)	Pron. I	Pron. II	"Modal"	STEM	GEN.	NUM.	CASE MOOD	OBJ.	ENCL.
Form (Markers)	ja etc.	ša na	ta tana	STEM	u a/i	ø :	u a/i	šu etc.	ma etc.
Examples				kalb	+u	+Ø	+)⁄a	+0	+ma
				kalb	+a	+:	+ti	+šu	+Ø
	ja	+Ø	+Ø	+mahha	ır +u	+Ø	+)⁄4	+ka	+ma
	ju	+s#	+ta	+møhin	r +u	+:	+)¢	+Ø	+Ø

Chart 81. Classes of Sequential Morphemes.

the Fem. marker, but a consonantal glide introduced secondarily between the vowel of gender and that of case. See 3.3 and below No. 17. No <u>t</u> appears in the Fem. of personal pronouns, verbs, and statives. See 1.3. For the relation of markers of gender to markers of case, see 3.4 and below No. 19. For a suggestion that both markers of the gender and case ultimately go back to the Pers. Pron. I ju, ja, see 8.2.

13. <u>Number</u>. Rank number 2 after the stem is occupied by markers of number, zero for Sg. and length for Pl. Examples: <u>kalb+u+g+g+m</u>, <u>kalb+a+g+tu+m</u>, <u>š+u+g+g</u>, <u>s+i+g+g</u> in Sg.; <u>kalb+u+:+g+g</u>, <u>kalb+a+:+tu+m</u>, <u>s+u+u+g</u>, <u>s+i+g+g</u> in Pl. See 2.1.

14. <u>Consonantal Glides n and m</u>. The intrusive <u>n</u> in the Pl. of personal pronouns  $\underline{\check{s}+u+}_{\underline{n}}\underline{\check{s}+i+}_{\underline{n}}\underline{\check{z}+\mu}$ , and the intrusive <u>m</u> in the West Semitic Pl. <u>h+u+</u> u+<u>n</u> and Du. <u>h+u+</u> <u>a:+µ</u> are interpreted as consonantal glides secondarily introduced between two vowels. See 2.2.

## 11. CONCLUSIONS

15. <u>Dissimilation</u>. The change from <u>šini</u> to <u>šina</u>, <u>kini</u> to <u>kina</u>, etc., is interpreted by dissimilation, attested, e.g., in Arabic qaşşābāna > qaşşābāni. See 2.3.

16. <u>Case</u>. Rank number 3 after the stem is occupied by markers of case, <u>u</u> for Nom. and <u>a/i</u> for Gen./Acc. Examples: <u>kalb+u+</u>  $\not = \not = \not = h, \ kalb+a+\not = \not = h, \ s+u+\not = \not = h, \ kalb+a+\not = \not = h, \ kalb+a+\not = h, \ kalb+a+ h, \ kalb+a+\not = h, \ kalb+a+ h, \ kalb+a+\not = h, \ kalb+a+ h, \ kal$ 

17. <u>Consonantal Glide t</u>. The consonant <u>t</u> in <u>kalbatum</u>, etc., is not a part of the Fem. marker, but a consonantal glide introduced secondarily between the vowel of gender and that of case. See above No. 12.

18. <u>Diptotic and Triptotic Declensions</u>. Quantitatively speaking, the diptotic declension dominates completely the structure of the case. Other evidence shows that the diptotic declension represents the older stage, the triptotic the younger. See 3.2.

19. <u>Markers of Case = Markers of Gender</u>. Markers of case, <u>u</u> and <u>a/i</u>, in rank number 3, are the same as markers of gender, <u>u</u> and <u>a/i</u>, in rank number 1. See 3.4 and No. 12 above.

20. <u>Time of the Development of the Case System</u>. Since rank-3 case follows rank-1 gender in the sequence, it is <u>a priori</u> plausible to assume the later development of the case system. For supporting evidence see 3.6. and below No. 30.

21. <u>Synesthesia</u>. Since the markers of case are identical with the markers of gender, it may be possible to assume some synesthesic recognition, in the language-culture patterns of the Semites, of the force of the vowel  $\underline{u}$  as strong, dominant, and masculine, and of the vowels  $\underline{a}$  and  $\underline{i}$  as weak, dependent, and feminine. See 3.4.

22. <u>Mood</u>. Rank number 3 after the stem is occupied by markers of mood, <u>u</u> for Ind. and <u>a</u> (and perhaps <u>i</u>) for Subj. Examples: <u>ja+mhur+u+#+u</u>, <u>mahir+u+#+#</u> in Ind.; <u>ja+mhur+#+#+#</u>, <u>mahir+#+#+#</u> in Subj. See 3.1, 3.9, and 3.10.

23. <u>Nominativization</u>. The change of the Subj. jamhura , to jamhuru is realized by the replacement of the oblique vowel <u>a</u> of the Subj. by the Nom. vowel <u>u</u>. See 3.12.

24. <u>Mood = Case</u>. Since the markers of mood are identical with those of case, and both mood and case appear in the same rank number 3, the obvious conclusion to be drawn is that mood is case. See 3.13.

25. <u>Object</u>. Rank number 4 after the stem is occupied by the object, which appears as pronominal suffixes, nouns or verbs in oblique case or mood, or mimation. Examples: <u>kalb+u+Ø+#+šu</u> "his dog," <u>ja+mhur+u+Ø+#+šu</u> "he received him," <u>kalb+u+Ø+# šarrim</u>, "dog of the king," <u>kalb+u+Ø+# jamhura</u> "dog which he received," <u>kalb+u+Ø+#+m</u>, ja+mhur+u+Ø+#+Ø, ja+mhur+u+:+#+na. See 4.1.

26. <u>Markers of Mimation</u>. The overt markers of mimation (or nunation) are <u>ma</u>, <u>na</u>, <u>ni</u>, <u>m</u>, and <u>n</u> in different Semitic

languages. They all go back ultimately to ma. See 4.3.

27. <u>Function of Mimation</u>. Since mimation (nunation) occupies the same rank number 4 as any object in oblique case or mood, I define mimation as the signal marking the absence of the object. Examples: <u>kalb+u+Ø+pi+m</u>, <u>kalb+u+:+pi+ma</u>, <u>kalb+pi+a:+pi+n</u>, beside <u>kalb+u+Ø+pi+šu</u>, <u>kalb+u+:+pi+šu</u>; <u>ja+mhur+u+:+</u> <u>pi+na</u>, <u>ja+mhur+pi+a:+pi+ni</u> beside <u>ja+mhur+u+:+pi+šu</u>; <u>ja+mhur+pi+a:+pi+šu</u>.

28. <u>Origin of Markers ma and mu</u>. The marker <u>ma</u> (and its descendants <u>ma</u>, <u>mi</u>, <u>m</u>, <u>n</u>) of mimation and nunation and the marker <u>mu</u> of the Act. Part. (No. 38) are derived from the indefinite / interrogative pronoun <u>mu</u>, <u>mi</u>, <u>ma</u> "anybody," "anything." See 4.3.

29. <u>Enclitics</u>. Rank number 5 after the stem is occupied by enclitics, which may occur not only after nouns, pronouns, verbs, and statives, but also after indeclinables. Examples: <u>kalb+u+f/+y/+</u> <u>m+ma</u> "and dog," <u>man+ma</u>, "whoever." The use of enclitics is lexical, and therefore optional. See 5. ENCLITICS.

30. Order of Creation of Suffixal Sequential Morphemes. It may be suggested that the first sequential morphemes to be created in the Semitic languages were those of gender and number. Next came the morpheme of case or mood, then the pronominal suffixes and mimation (= nunation), both probably independent (not suffixal) originally, and finally the enclitics. See 0.4, 3.6, and 4.3.

31. Order of Decay of Suffixal Sequential Morphemes. At the other end of the development, the first morpheme to suffer loss in Semitic languages was mimation (= nunation), at times

together with the replacement of pronominal suffixes by prepositional phrases (or the like). Next the case system fell into disuse and gradually disappeared. Only the gender and number systems have never been exposed to the process of linguistic decay. See 0.4.

32. Order of Importance of Suffixal Sequential Morphemes. From the temporal order in which certain morphemes were first created and later decayed one may draw the conclusion that the gender and number systems formed a more integral part of the structure of Semitic languages than the case system and mimation. See 0.4.

33. <u>Binary Structure</u>. The system manifests itself in the existence of pairs of opposites, as in Masc. // Fem. of gender; Sg. // Pl. of number; Nom. // Gen./Acc. of case; and Ind. // Subj. of mood. See 0.4 end and 3.2.

34. <u>Non-Binary Structure</u>. Several structural formations developed separately from and (probably) later than the binary formations. Such are the Du. number, the differentiation of the Gen. and Acc. cases, the creation of the Dat. and Loc. cases and of the various secondary moods. See 0.4 and, in greater detail, 1.6, 2.5, 3.2, 3.8, and 3.14.

35. <u>Double Features</u>. A secondary marker added to a primary marker serves the purpose of strengthening the morpheme, as in the gender Masc. <u>suatu</u> Fem. <u>siati</u> (and the like), and similarly in Ethiopic Masc. <u>webstu</u> Fem. <u>jebsti</u>, from <u>huatu</u>, <u>hiati</u>; in the Pl. number <u>bisatatum</u> beside <u>bisatum</u>; in the object case Masc.

suati Fem. siati; and in the Subj. mood imhuruni (from jamhurani) beside imhuru (from jamhura). See 0.4 and 1.5.

36. <u>Prefixal Sequential Morphemes</u>. The three sequential morphemes denote the Pers. Pron. I, Pers. Pron. II, and "Modal," and occur only in verbs and verbal nouns.

37. First Prefixal Sequential Morpheme. Rank number 1 before the stem is occupied by markers  $\frac{3}{2a}$ ,  $\frac{1}{2a}$ , etc., which form part of the inflectional system of the fientive verb. The prefixes are derived from the Pers. Pron. I  $\frac{3an+3a+ku}{2an+4a}$ , etc. Examples:  $\frac{3a+\theta+\theta+m+u+u}{2an+4a}$ ,  $\frac{1}{2an+4a}$ , etc. Examples:

38. <u>Marker mu of the Act. Part</u>. The same rank number 1 before the stem, which is occupied by the inflectional elements of the fientive verb, is also occupied by the marker <u>mu</u> of the Act. Part. Thus <u>mu</u> is the marker signaling the absence of the subject of the fientive verb. Example: <u>mu+samhir+um</u> "the one who caused it to be received" and <u>ju+samhir+u</u> "he caused it to be received." See 9.3. For a parallel instance of <u>m</u> of the mimation, which marks the absence of the object, see above Nos. 26ff.

39. <u>Second Prefixal Sequential Morpheme</u>. Rank number 2 before the stem is occupied by markers <u>na</u> and <u>sa</u> (or <u>ha</u> in other Semitic languages), which form part of the prolonged stem in N and <u>S</u> formations in verbs and verbal nouns. The marker <u>sa</u> (or <u>ha</u>) certainly goes back to Pers. Pron. II; the origin of the marker <u>na</u> is unknown. Examples: <u>ju+sa+ta+mbir+u</u>, <u>sa+ta+mbur+um</u>, <u>ja+aa+ta+mbar+u</u>, <u>at ta+ta+mbur+um</u>. See 9.3.

40. <u>Third Prefixal Sequential Morpheme</u>. Rank number 3 before the stem is occupied by markers <u>ta</u> and <u>tana</u>, which form part of the prolonged stem in T and TN formations in verbs and verbal nouns. The origin of the two markers is unknown. Examples: <u>jamtahharu</u> from <u>ja+0+ta+mahhar+u</u>, <u>jamtanahharu</u> from <u>ja+0+tana+mahhar+u</u>, <u>mitanahhurum</u> from tana+mahur+um. See 9.3.

41. <u>Stem</u>. Stem is the basic morphological unit of a word without its sequential morphemes, and is regularly composed of consonants and vowels. Examples: stem <u>kalb+</u> of <u>kalb+um</u> "dog," <u>mahir+</u> of <u>mahir+um</u> "received," <u>+mahir+</u> of <u>juša+mahir+ů</u> "they caused it to be received," <u>>in+</u> of <u>>in</u>, <u>>in+a</u> "in." See 6.2.

42. <u>Root</u>. Root is the basic semantic and lexical unit of a word. The root appears in the form of both consonants and vowels in primary nouns, pronouns, and some indeclinables, as in the root <u>kalb</u> "dog" of <u>kalb+um</u> "dog" and <u>kalb+ānum</u> "dog-like," or in the root <u>wišt</u> "inside" of <u>yišt+ūm</u> "from" and <u>yišt+i</u> "with." The root appears in the form of consonants only in verbs and verbal nouns, as in the root <u>mhr</u> "receive" of <u>ja+mhur+ū</u> "they received" and <u>mu+mabhir+um</u> "recipient." See 6.3.

43. <u>Personal Pronouns I and II</u>. Two Pers. Pron. are distinguished: Pers. Pron. I, <u>2a</u>, <u>tu</u>, <u>ti</u>, <u>ju</u>, <u>ja</u>, etc., occurring in the independent pronoun, as prefixes in the verb, and as suffixes in the stative; and Pers. Pron. II, <u>i</u>, <u>ku</u>, <u>ki</u>, <u>šu</u>, <u>ši</u>, etc., occurring in the independent and suffixal pronouns. See 8.2 and 8.3.

44. <u>Determinative Pronoun</u>. In its structure of gender, number, and case, the determinative / relative / indefinite

pronoun, Masc. <u>su</u> Fem. <u>sat</u>, is identical with the substantive and participle / adjective, and is completely different from the personal pronoun, Masc. <u>su</u> Fem. <u>si</u>. See 0.4 and Chart <u>3</u>.

45. <u>Inflectional Verbal Elements</u>. It is suggested that while the prefixes  $\underline{a+}$ ,  $\underline{ta+}$ ,  $\underline{ja+}$ , etc., formed the original inflectional elements in the verb, the suffixes  $\underline{+u}$ ,  $\underline{+i}$ ,  $\underline{+u}$ ,  $\underline{+a}$ , etc., were introduced secondarily into the verbal system from the noun. See 9.2.

46. <u>Vowel Classes in B Formations</u>. The vowels <u>a</u>, <u>i</u>, and <u>u</u> of the various B formations (B, BN, BT, etc.) denote different actions: <u>a</u> in <u>wašab</u> denotes neutral action; <u>i</u> in <u>paqid</u> denotes punctual action; and <u>u</u> in <u>ragum</u> denotes durative action. See 9.2, 9.3, and 9.4.

47. <u>Present and Preterit in B Formations</u>. Strong evidence exists that the difference between the Pres. and Pret. in all B formations (B, EN, BT, etc.) originally lay in stress and nothing else. Examples: <u>ja+páqid+u</u>, <u>ja##+páqid+u</u>, <u>ja+ptáqid+u</u> in Pres.; <u>já+paqid+u</u>, <u>já##+paqid+u</u>, <u>já+ptaqid+u</u> in Pret. Later developments consist of the doubling of the middle consonant of the stem in the Pres., as in <u>ja+páqqid+u</u>, and of the optional elision of the first vowel of the stem in the Pret., as in <u>já+páqid+u</u>. See 9.4.

48. <u>Present and Preterit in D and Š Formations</u>. Stems <u>mahar in Š and mahhar in D are used for the Pres.</u>; stems <u>mahir in Š</u> and <u>mahhir in D are used for the Pret. Examples</u>: <u>juša+mahar+u</u>, ju+mahhar+u in Pres.; juša+mahir+u, ju+mahhir+u in Pret. See 9.4.

49. <u>Vowel Classes in Verbal Nouns</u>. The vowel <u>u</u> is characteristic of the Stat., Pass. Part., and Inf., as in <u>na+mhur</u> and <u>na+mhur+um</u>; the vowel <u>i</u> is characteristic of the Act. Part., as in <u>mu+mahhir+um</u>, parallel to ju+mahhir+u. See 9.4.

50. Action, Aspect, and Tense. The conclusions based on the distribution and function of the stem vowels  $\underline{a}$ ,  $\underline{i}$ , and  $\underline{u}$ , as discussed under Nos. 46-49 are: the Pres./Fut. denotes a neutral action; the Pret. and Act. Part. denote a punctual action, and consequently a perfective aspect; and the Stat., Pass. Part., and Inf. denote a durative action, and consequently an imperfective aspect. See 9.4. oi.uchicago.edu

### ADDENDA

Places in the monograph to which the respective addenda are attached are marked by an asterisk.

P. 7. I learn from C. Meinhof, <u>Die Sprachen der Hamiten</u> (Hamburg, 1912) pp. 62 and 77ff., that Hausa has <u>mu</u> and <u>+mu</u> for the personal pronoun of the 1st person Pl. See also the addendum to p. 53.

P. 26. Since the pronominal suffixes have a definite sequence, obviously it is possible in a detailed study of certain ranks to subdivide them into sub-classes, as, e.g., into the rank number 4a, 4b, and 4c of pronominal suffixes. See 4.2.

P. 53. In the meantime, I have discovered two possible pieces of evidence in favor of the consonantal glide m. One concerns mu and +mu. the Hausa pronoun of the 1st person Pl., where Semitic languages have only +nu; see the addendum to p. 7. And the other concerns +mu, the Hebrew, Punic, etc., pronominal suffix of the 3rd person Masc. Sg., instead of the expected +hu. It has been noted some time ago that Hebrew uses the suffix +mo (from +humu) not only for Pl., as in <sup>2</sup>elohemo "their gods" but also for Sg., as in panemo "his face," kappemo "his hands," or calemo "upon him"; c.f., e.g., Hans Bauer and Pontus Leander, Historische Grammatik der hebraischen Sprache... (Halle a. S., 1918) p. 253. James G. Février, JA 1951 p. 6, idem, RA XLVI (1952) pp. 222f., idem, JA 1966 pp. 306f., pointed out that the Sg. suffix +M occurs also in the Punic >STM "his wife," BNM = binim "his son," LMLKM "of his reign," etc. J. Friedrich, Phonizisch-punische Grammatik (Roma, 1951) p. 47 including note 1, originally took the occurrences of the pronominal suffix +M in Sg. as "irrig," but changed his mind in ZDMG CVII

### ADDENDA

(1957) p. 291 in favor of Février's interpretation. W. F. Albright, <u>The Proto-Sinaitic Inscriptions and Their Decipherment</u> (Cambridge, Mass., 1966) pp. 33ff., and previously in <u>Anatolian Studies</u> VI (1956) p. 81 including note 36, added substance to the interpretation of the Sg. suffix +M by comparing it with +<u>mu</u> found occasionally in the cuneiform transliterations of West Semitic names; accordingly, Albright interprets the Ugaritic and Phoenician name 'BD'LM as "<u>cAbdi-ilimu</u>" (= <u>cAbd+'ili+mu</u>). All the scholars listed above left the origin of the Sg. pronominal suffix +M, +<u>mu</u>, +<u>m</u> unexplained. I would interpret the intrusive <u>m</u> in <u>'ili+mu</u> as a consonantal glide developed secondarily from <u>'ili+wu</u>, where <u>w</u> represents a semi-consonantal glide appearing side by side with <u>j</u> in <sup>3</sup>LJ = <u>'ili+ju</u> or <u>'</u> in <sup>3</sup>L' = <u>'ili+'u</u>, in place of the original <sup>3</sup>LH = <u>'ili+hu</u>. The time and area distribution of the glides and the question of the ammissibility of the final vowel <u>u</u> is of no concern to us in this study.

P. 84. It is interesting to note that quite a few gentilic names at Mari occur without case endings and mimation, as in <u>At-ma-a-i</u> beside <u>Atmum, Hu-um-za-ni-i</u> beside <u>Humzan, Ia-mu-ut-ba-la-i</u> beside <u>Jamût-bacl(um)</u>, <u>Mi-iš-la-na-i</u> beside <u>Mišlan</u>, <u>Nu-um-ha-i</u> beside <u>Numha</u>, etc.

P. 90. An ununderstandable +<u>iš</u> after a verb occurs in <u>su-ma</u> <u>i-la-ga-iš</u> (LAM+KUR) /<u>šumma illakā+iš</u>/ "if (the two fugitives) come" in a text of the Old Akkadian period (<u>MAD</u> II<sup>2</sup> p. 132 and <u>MAD</u> III p. 38).

P. 99. Cf. also the assumed difference between the original Ind. mahiru and Subj. mahira in the Akkadian stative, noted on p. 104.

P. 104. Cf. also the difference between the Ind. in  $\underline{u}$ , as in <u>säbbäro</u>, and the Subj. in <u>a</u>, as in <u>säbbärä</u>, in the Gurage perfect, noted on p. 99.

P. 137. Cf. also <u>tur<sub>1</sub>-dam-su-nu-ti</u> "send them to me" (<u>TCL</u> XIX 53:38).
P. 137. Since I do not know of any cases of Dat. I + Acc. I, such as <u>iddin+kuğ+su</u>, "he gave him to thee," I am forced to interpret <u>iddinassu</u>

"he gave him to me" not as Dat. I + Acc. I <u>iddin+an+su</u>, but as Dat. II + Acc. I <u>iddin+an+su</u>.

P. 203. The vowel <u>i</u> of the stative <u>mitahur</u>, instead of <u>matahur</u>, appears also in the imperative mitahar in BT and similarly in BTN.

P. 205. The original vowel <u>a</u> of the stem is preserved in the imperative of the verbs <u>primae laryngalis</u>, as in <u>akul</u> "eat!," <u>halik</u> "go!," and <u>carub</u> "enter!," as well as in the verbs <u>taru</u> "take away!," and <u>taşi</u>, "go out!"; see Gelb in <u>BO</u> XII (1955) p. 111a note to § 105g.

P. 211. Cf. also the instructive article of Giorgio Buccellati, "An Interpretation of the Akkadian Stative as a Nominal Sentence," <u>JNES XXVII (1968) pp. 1-12</u>, which appeared too late to be utilized in this monograph. oi.uchicago.edu

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