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Number 2

Title: "Introduction to Sumerian Grammar"

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Posted to web: 4 January 2016

INTRODUCTION TO SUMERIAN GRAMMAR

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PREFACE

Entia non sunt multiplicanda praeter necessitatem

William of Ockham

This grammar is intended primarily for use in the first year of university study under the guidance of a teacher who can describe the classic problems in greater detail, add current alternative explanations for phenomena, help the student parse and understand the many textual illustrations found throughout, and provide supplementary information about the history of the language and the culture of early Mesopotamia. A few exercises have been provided to accompany study of the lessons, some artificial, others drawn from actual texts. Both require vocabulary lookup from the companion Elementary Sumerian Glossary or a modern substitute such as the online Pennsylvania Sumerian Dictionary. Upon completing this introduction, the student will be well prepared to progress to sign learning and reading of texts. Konrad Volk's A Sumerian Reader (Studia Pohl Series Maior 18, Rome, 1997-) is a good beginning.

This introduction may also be of benefit to those who have already learned some Sumerian more or less inductively through the reading of simple royal inscriptions and who would now like a more structured review of its grammar, with the help of abundant textual illustrations, from something a bit more practical and pedagogically oriented than the available reference grammars.

Cross-references have often been provided throughout to sections (§) in Marie-Louise Thomsen's earlier standard The Sumerian Langauge (Copenhagen, 1987²), where additional information and further examples can often be found for individual topics. A newer restatement of the grammatical system is Dietz Otto Edzard's Sumerian Grammar (Leiden, 2003). An up to date quick overview is Gonzalo Rubio's "Sumerian Morphology," in Alan S. Kaye (ed.), Morphologies of Asia and Africa II (2007) 1327-1379. Pascal Attinger's encyclopedic Eléments de linguistique sumérienne (Fribourg, 1993) is a tremendously helpful reference but beyond the reach of the beginner. Abraham H. Jagersma's revolutionary new and monumental Descriptive Grammar of Sumerian (2010) is now available for download on the Web and will eventually be published by Oxford University Press.

For standard Assyriological abbreviations used in this introduction see the Abbreviations for Assyriology of the Cuneiform Digital Library Initiative (CDLI) on the Web. The standard academic online dictionary is the Electronic Pennsylvania Sumerian Dictionary (ePSD). The chronological abbeviations used here are:

OS	Old Sumerian period	(2500-2350 BC)
OAkk	Old Akkadian (Sargonic) period	(2350-2150 BC)
Ur III	3rd Ur Dynasty (Neo-Sumerian) period	(2150-2000 BC)
OB	Old Babylonian period	(1900-1600 BC)

For those who may own a version of my less polished UC Berkeley teaching grammar from 1990 or earlier, the present version will be seen to be finally comprehensive, greatly expanded, hopefully much improved, and perhaps worth a serious second look. My description of the morphology and historical morphophonemics of the verbal prefix system remains an idiosyncratic, somewhat unconventional minority position. Jagersma's new description, based in many respects upon a new system of orthographic and morphophonological rules, is now popular especially in Europe, and it may well eventually become the accepted description among many current students of Sumerian grammar.

This will be the last updated, final, edition of this grammar.

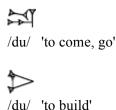
Guerneville, California USA January 2016

THE SUMERIAN WRITING SYSTEM

I. TRANSLITERATION CONVENTIONS

A. Sign Diacritics and Index Numbers

Sumerian features a large number of homonyms – words that were pronounced similarly but had different meanings and were written with different signs, for example:





/du/ 'to release'

A system of numerical subscripts, and diacritics over vowels representing subscripts, serves to identify precisely which sign appears in the actual text. The standard reference for sign identification remains R. Labat's Manuel d'Epigraphie akkadienne (1948-), which has seen numerous editions and reprintings. Y. Rosengarten's Répertoire commenté des signes présargoniques sumériens de Lagaš (1967) is indispensible for reading Old Sumerian texts. R. Borger's Assyrisch-babylonische Zeichenliste (AOAT 33/33a, 1978-) is now the modern reference for sign readings and index numbers, although the best new signlist for OB Sumerian literary texts is the Altbabylonische Zeichenliste der sumerisch-literarischen Texte by C. Mittermayer & P. Attinger (Fribourg, 2006). Borger's AbZ index system which is used here is as follows:

Single-syllable signs		Multiple-sy	Multiple-syllable signs		
du	$(= du_1)$	muru	No all old 12 12		
dú	$(= du_2)$	múru	Note that the diacritic always falls on the FIRST VOWEL of the word!		
dù	$(= du_3)$	mùru	VOWEL of the word:		
du ₄	etc.	muru ₄			

There is variation in the systems employed in older signlists for multiple-syllable signs, especially in Labat. In the earliest editions of his signlist which may still be encountered in libraries, Labat carried the use of diacritics through index numbers 4-5 by shifting the acute and grave accents onto the first syllable of multiple-syllable signs:

 $mur\dot{u}$ (= $muru_2$) $mur\dot{u}$ (= $muru_3$) $m\dot{u}ru$ (= $muru_4$) $m\dot{u}ru$ (= $muru_5$) This would not be a problem except for a number of signs which have long and short values. For example, the sign túk can be read /tuk/ or /tuku/. Labat reads the latter as túku, which then does not represent tuku₄, but rather tuku₂, i.e. túk(u)! Borger's system, used here and in later editions of Labat, is more consistent, placing the diacritics on the first syllable of multi-syllable signs, but using them only for index numbers 2 and 3.

New values of signs, pronunciations for which no generally accepted index numbers yet exist, are given an "x" subscript, e.g. da_x 'side'.

Note, finally, that more and more frequently the acute and grave accents are being totally abandoned in favor of numeric subscripts throughout. This, for example, is the current convention of the new Pennsylvania Sumerian Dictionary, e.g. du, du₂, du₃, du₄, etc. Since the system of accents is still current in Sumerological literature, however, it is vital that the beginner become familiar with it, and so it has been maintained here.

B. Upper and Lower Case, Italics, and Brackets

In unilingual Sumerian contexts, Sumerian words are normally written in lower case roman letters. Upper case (capital) letters (CAPS) are used:

- 1) When the exact meaning of a sign is unknown or unclear. Many signs are <u>polyvalent</u>, that is, they have more than one <u>value</u> or reading. When the particular reading of a sign is in doubt, one may indicate this doubt by choosing its most common value and writing this in CAPS. For example, in the sentence KA-ĝu₁₀ ma-gig 'My KA hurts me' a body part is intended. But the KA sign can be read ka 'mouth', kiri 'nose' or zú 'tooth', and the exact part of the face might not be clear from the context. By writing KA one clearly identifies the sign to the reader without committing oneself to any of its specific readings.
- 2) When the exact pronunciation of a sign is unknown or unclear. For example, in the phrase a-SIS 'brackish water', the pronunciation of the second sign is still not completely clear: ses, or sis? Rather than commit oneself to a possibly incorrect choice, CAPS can be used to tell the reader that the choice is being left open.
- 3) When one wishes to identify a non-standard or "x"-value of a sign. In this case, the x-value is immediately followed by a known standard value of the sign in CAPS placed within parentheses, for example $da_x(A)$ 'side'.
- 4) When one wishes to spell out the components of a compound logogram, for example énsi(PA.TE.SI) 'governor' or ugnim(KI.KUŠ.LU.ÚB.ĜAR) 'army'.
- 5) When referring to a sign in the abstract, as in "the ŠU sign is the picture of a hand."

In bilingual or Akkadian contexts, a variety of conventions exist. Very commonly Akkadian words are written in lower case roman or italic letters with Sumerian logograms in CAPS: a-na É.GAL-šu 'to his palace'. In some publications one also sees Sumerian words written in spaced roman letters, with Akkadian in either lower case roman letters or *italics*. In other newer publications Sumerian is even printed in boldface type.

Determinatives, unpronounced indicators of meaning, are written with superscripts in Sumerological literature, or, often, in CAPS on the line in Akkadian contexts: giš hašhur or ĜIŠ.HAŠHUR. They are also sometimes seen written lower case on the line separated by periods: ĝiš hašhur.

Partly or wholly missing or <u>broken</u> signs can be indicated using square brackets, e.g. lu[gal] or [lugal] 'king'. Partly broken signs can also be indicated using half-brackets. A sign presumed to have been omitted by the ancient scribe is indicated by the use of <angle> brackets, while an erroneously repeated sign deleted by a modern editor is indicated by the use of double angle <<angle> brackets.

C. Conventions for Linking Signs and Words

Hyphens and Periods

In Akkadian contexts, hyphens are always used to transliterate Akkadian, while periods separate the elements of Sumerian words or logograms. In Sumerian contexts, periods link the parts of compound signs written in CAPS, and hyphens are used elsewhere, e.g.:

```
énsi(PA.TE.SI) 'governor' ^{ku\$}gur_{21}(\acute{E}.\acute{I}B)^{\grave{u}r} 'shield' an-šè 'towards heaven'
```

Problems can arise, however, when one attempts to formulate rules for the linking of the elements in the chain formations characteristic of Sumerian. The formal definition of a Sumerian word remains problematic (see J. Black, "Sumerian Lexical Categories," Zeitschrift für Assyriologie 92 [2002] 60ff. and G. Cunningham, "Sumerian Word Classes Reconsidered," in Your Praise is Sweet. A Memorial Volume for Jeremy Black [London, 2010] 41-52.) Consequently, we only transliterate Sumerian sign by sign; we do not usually transcribe "words." Verbal chains consist of stems and affixes always linked together into one unit. But nominal chains (phrases) often consist of adjectives, appositions, dependent genitive constructions, and relative clauses beside head nouns and suffixes, and the linking or separation of various parts of nominal chains in unilingual Sumerian contexts is subject to the training and habits of individual scholars. One rule of thumb is: the longer the the chain, the less likely its parts will be linked with hyphens. The main criterion at work is usually clarity of presentation.

Components of standard nominal compounds and proper nouns are normally linked:

```
dub-sar 'tablet writer' = 'scribe'
an-ki 'heaven and earth'
en-mete-na '(the king) Enmetena'
```

Adjectives were always in the past joined to the words they modify, but most scholars now write an adjective as a separate word:

```
dumu-tur or dumu tur 'child small' = 'the small child'
```

Verbal adjectives (past participles) are now also less often linked:

```
é-dù-a or é dù-a 'house that was built' = 'the built house'
```

The two parts of a genitive construction are today never linked unless they are components of a compound noun:

```
é lugal-la 'the house of the king' {é lugal+ak}
zà-mu 'edge of the year' = 'New Year' {zà mu+ak}
```

In the absence of a universally accepted methodology, one must attempt to develop one's own sensitivity to how Sumerian forms units of meaning. Our conventions for linking signs and words are intended only to help clarify the relationships between them and to aid in the visual presentation of the language. The writing system itself makes no such linkages and does not employ any sort of punctuation. One should take as models the usual practices of established scholars. One should also try to be consistent.

Plus (+) and Times (x) in Sign Descriptions

When one sign is written inside (or, especially in older texts, above or below) another sign, the resulting new sign may be described by writing both components in CAPS, with the base sign and added sign separated by an "x":



KAxA MOUTH times WATER = naĝ 'to drink'

If the reading/pronunciation of such a sign also happens to be unknown, this, by necessity, will actually be the standard way to transliterate it until a new reading is proposed:



IRIxA CITY times WATER = 'the city IRIxA'

Two signs joined closely together, especially when they share one or more wedges in common or have lost some feature as a result of the close placement, are called <u>ligatures</u>. Signs featuring an archaic reversal of the order of their components can also be called <u>ligatures</u>. The parts of ligatures are traditionally linked with a "plus" character, although some scholars will also use a period:



GAL+LÚ BIG plus MAN = lugal 'king'



GAL+UŠUM BIG plus SERPENT = ušumgal 'dragon'



SÌG+UZU HIT plus FLESH = túd 'to beat, whip'

ZU+AB = abzu '(mythical) subterranean ocean, abyss'

則

EN+ZU = suen 'Suen (the moon god)'

More complicated compound signs may feature a number of linked elements, with parentheses marking subunits, e.g.:



 $DAG+KISIM_5x(UDU.M\acute{A}\check{S}) = ama\check{s}$ 'sheepfold'

Colon

Especially in publications of archaic or Old Sumerian texts in which the order of signs is not as fixed as in later periods, a colon may be used to tell the reader that the order of the signs on either side of the colon is reversed in actual writing, e.g. za:gin for written GÌN-ZA instead of normal za-gin 'lapis lazuli'. Multiple colons can also be used to indicate that the proper order of signs is unknown. Thus a

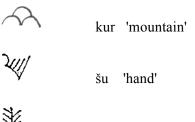
II. ORIGIN AND DEVELOPMENT OF THE SIGN SYSTEM

D. Schmandt-Besserat has demonstrated that cuneiform writing per se developed rather abruptly towards the end of the 4th millennium from a system of counting tokens that had long been in use throughout the Ancient Near East. Our oldest true texts, however, are the pictographic tablets that come from level IVa at Uruk (ca. 3100 BC). Other archaic texts come from later Uruk levels, from Jemdet Nasr, and from Ur (1st Dynasty, ca. 2700 BC). Many of these old documents are still difficult to read, but much new progress has recently been made. By ca. 2600 BC the texts become almost completely intelligible and feature a developing mixed logographic and syllabic cuneiform writing system.

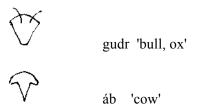
The term "pictogram (pictographic)" is used exclusively to refer to the signs of the archaic texts, in which "pictures" were drawn on clay with a pointed stylus. The terms "ideogram (ideographic)" and "logogram (logographic)" are more or less interchangeable and refer to signs which represent "ideas" or "words" respectively, as opposed to signs which represent syllabic values or mere sounds. Logogram is the term used by modern Sumerologists.

Signs depicting concrete objects form the ultimate basis of the archaic system. They may represent whole objects:

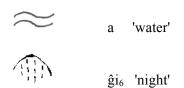
'(ear of) grain'



or significant parts of objects:



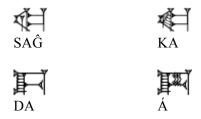
Other signs were a bit more abstract, but are still comprehensible:



Many other archaic signs, however, are either too abstract or, oddly enough, too specific and detailed, for us to identify as yet. The large number of often minutely differentiated signs characteristic of the archaic texts suggests that an attempt was made to produce one-to-one correspondences between signs and objects. This system no doubt soon became unwieldy, and, moreover, could not easily express more abstract ideas or processes. Therefore, alternative ways of generating signs were developed.

gunû and šeššig Signs

One method of generating new signs was to mark a portion of a base sign to specify the object intended. The marks are called by the Akkadian scribes either *gunû*-strokes (from Sumerian gùn-a 'colored, decorated') or *šeššig*-hatchings (due to the resemblance of the strokes to the early cross-hatched form of the Sumerian sign for grain, še). Compare the following two sets of signs:

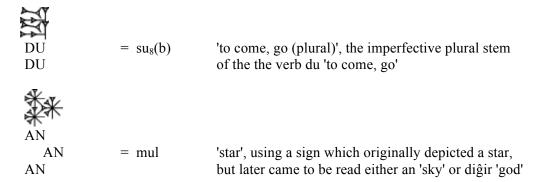


In the first set, the base sign is saĝ 'head'. Strokes over the mouth portion produces SAĜ-gunû, to be read ka 'mouth'. In the second set, the base sign is da 'side' (i.e., a shoulder, arm and hand). Hatchings over the arm portion produces DA-šeššig, to be read á 'arm'.

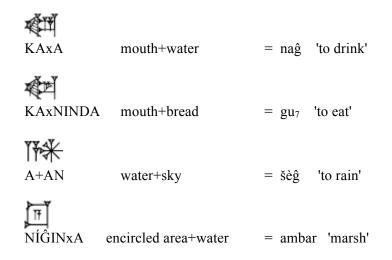
Compound Signs

New signs were generated by combining two or more signs:

1) Doubling or even tripling the same sign:



2) Combining two (or more) different signs to produce a new idea by association of ideas:



NÍĜINxBÙR encircled area+hole = pú 'well'

MUNUS+UR female+dog

= nig 'bitch'

3) Adding to a base sign a <u>phonetic indicator</u> which points to the pronunciation of a word associated in meaning with the base sign:

F

KAxME mouth+me = eme 'tongue'

KAxNUN mouth+ \underline{nun} = nundum 'lip'

4

EZENxBAD walled area+ \underline{bad} = \underline{bad} 'city wall'

UD.ZÚ.BAR sun+zubar = zubar/zabar 'bronze'

Polyvalency

The most important new development by far was the principle of <u>polyvalency</u>, the association of semantically related "many values" with a particular sign, each with its own separate pronunciation. This became a very productive and simple method of generating new logographic values. For example:

apin 'plow' can also be read uru₄ 'to plow'

engar 'plowman, farmer'

àbsin 'furrow'

ka 'mouth' can also be read kiri 'nose'

zú 'tooth' inim 'word'

pa 'branch' can also be read ĝidri 'scepter'

sìg 'to hit'

ugula 'foreman'

utu 'sun' can also be read ud 'light, day, time'

babbar 'shining, white'

àh 'dried, withered'

an 'sky' can also be read diĝir 'god, goddess, deity'

Determinatives

To help the reader decide which sign or possible value of a polyvalent sign was intended by the writer, the use of determinatives arose. A determinative is one of a limited number of signs which, when placed before or after a sign or group of signs, indicates that the determined object belongs to a particular semantic category, e.g. wooden, reed, copper or bronze objects, or persons, deities, places, etc. Determinatives were still basically optional as late as the Ur III period (2114-2004). When Sumerian died as a spoken language, they became obligatory. Determinatives were presumably not to be pronounced when a text was read, and to show that they are not actually part of a word we transliterate them, in unilingual Sumerian context at least, as superscripts. To use the example of the 'plow' sign above, the polyvalent sign APIN is read

```
apin - if preceded by a 'wood' determinative: gišapin 'plow' engar - if preceded by a 'person' determinative: lúengar 'plowman', but uru4 'to plow' or àbsin 'furrow' elsewhere, depending upon context.
```

Rebus Writing and Syllabic Values

At some point rebus writings arose, where the sign for an object which could easily be drawn was used to write a homophonous word which could not so easily be depicted, especially an abstract idea. For example, the picture of an arrow, pronounced /ti/, became also the standard sign for ti 'rib' as well as for the verb ti(l) 'to live'. The adoption of the rebus principle was a great innovation, but it adds to the difficulty of learning the Sumerian writing system, since meanings of words thus written are divorced entirely from the original basic shapes and meanings of their signs.

With the expansion of the rebus principle the development of syllabic, or purely phonological, values of signs became possible. For example, the logograms mu 'name' or ga 'milk' could now be used to write the verbal prefixes mu- 'hither, forth' or ga- 'let me', that is, grammatical elements which were not really logograms, but, rather, indicated syntactic relationships within the sentence. A regular system of syllabic values also made possible the spelling out of any word – especially useful when dealing with foreign loanwords, for which no proper Sumerian logograms existed.

Finally, a limited set of some ninety or so Vowel, Consonant-Vowel, and Vowel-Consonant syllabic values formed the basis of the Akkadian writing system, modified somewhat from the Sumerian to render different sounds in the Akkadian phonemic inventory and then expanded over time to produce many new phonetic and even multiple-syllable values (CVC, VCV, CVCV).

The Sumero-Akkadian writing system was still in limited use as late as the 1st century A.D.; the last known texts are astronomical in nature and can be dated to ca. 76 A.D. The system thus served the needs of Mesopotamian civilizations for a continuous span of over 3200 years – a remarkable achievement in human history.

III. ORTHOGRAPHY

The fully developed writing system employs logograms (word signs), syllabic signs (sound values derived from word signs), and determinatives (unpronounced logograms which help the reader choose from among the different logographic values of polyvalent signs) to reproduce the spoken language. Some now speak of the received system as logophonetic or logosyllabic in character.

Logograms

Many Sumerian logograms are written with a single sign, for example a 'water'. Other logograms are written with two or more signs representing ideas added together to render a new idea, resulting in a compound sign or sign complex which has a pronunciation different from that of any of its parts, e.g.:

KAxA > naĝ 'to drink' (combining KA 'mouth' and A 'water')

Á.KALAG > usu 'strength' (combining Á 'arm' and KALAG 'strong')

Such compound logograms should be differentiated from compound <u>words</u> made up of two or more logograms, e.g.:

kù-babbar 'silver' (lit. 'white precious metal')
kù-sig₁₇ 'gold' (lit. 'yellow precious metal')
ur-mah 'lion' (lit. 'great beast of prey')
za-dím 'lapidary' (lit. 'stone fashioner')

Logograms are used in Sumerian to write nominal and verbal roots or words, and in Akkadian as a kind of shorthand to write Akkadian words which would otherwise have to be spelled out using syllabic signs. For example, an Akkadian scribe could write the sentence 'The king came to his palace' completely syllabically: *šar-ru-um a-na e-ka-al-li-šu il-li-kam*. He would be just as likely, however, to use the common Sumerian logograms for 'king' and 'palace' and write instead LUGAL *a-na* É.GAL-*šu il-li-kam*.

Syllabic Signs

Syllabic signs are used in Sumerian primarily to write grammatical elements. They are also commonly used to write words for which there is no proper logogram. Sometimes this phonetic writing is a clue that the word in question is a foreign loanword, e.g. sa-tu < Akkadian $\check{s}ad\hat{u}$ 'mountain'.

Texts in the Emesal dialect of Sumerian feature a high percentage of syllabic writings, since many words in this dialect are pronounced differently from their main dialect (Emegir) counterparts and so cannot be written with their usual logograms. For example, Emesal ka-na-áĝ = Emegir kalam 'nation', Emesal u-mu-un = Emegir en 'lord'. We also occasionally encounter main dialect texts written syllabically, but usually only from peripheral geographical areas such as the Elamite capital of Susa (in Iran) or northern Mesopotamian sites such as Shaduppum (modern Tell Harmal) near Baghdad.

Syllabic signs are occasionally used as glosses on polyvalent signs to indicate the proper pronunciations; we normally transliterate glosses as superscripts as we do determinatives, for example: èn ba-na-tar^{ar} 'he was questioned'. An early native gloss may rarely become fixed as part of the standard writing of a word. The best example is the word for 'ear, intelligence', which can be written three different ways, two of which incorporate full glosses:

1) The sign ĝeštug is written:



2) The sign ĝéštug is written: geš-túg



3) The sign ĝèštug is written:



Determinatives

The following determinatives are placed BEFORE the words they determine and so are referred to as pre-determinatives:

Determinative	Meaning	Category
I (abbr. m) lú munus (abbr. f) diĝir (abbr. d) dug gi ĝiš i ₇ (or íd) kuš mul	one, (item) man, person woman, female god pot reed tree, wood watercourse skin star	personal names (usually male) many male professions female names and professions* deities vessels reed varieties and objects trees, woods, and wooden objects canals and rivers leather hides and objects planets, stars, and constellations
na ₄	stone	stones and stone objects
šim	aromatic, resin	aromatic substances
túg (or tu ₉)	garment	(woolen) garments
ú	grass	grassy plants, herbs, cereals
iri	city	city names (previously read uru)
uruda	copper	copper and bronze objects (also read urudu or urud)
uzu	flesh	body parts, meat cuts

^{*}An Akkadian invention, not actually attested in Sumerian texts (so P. Steinkeller, Orientalia 51 [Rome, 1982] 358f.)

The following determinatives are placed AFTER the words they determine and so are referred to as <u>post-determinatives</u>:

ki	place	cities and other geographic entities
ku ₆	fish	fish, amphibians, crustaceans
mušen	bird	birds, insects, other winged animals
nisi(g)	greens	vegetables (the reading sar 'garden plot'
		is now obsolete but still often seen)
zabar	bronze	bronze objects (often combined with
		the pre-determinative uruda)

Long and Short Pronunciations of Sumerian Roots

Many Sumerian nominal and verbal roots which end in a consonant drop that consonant when the root is not followed by some vocalic element, i.e., at the end of a word complex or nominal chain or when followed by a consonantal suffix. For example, the simple phrase 'the good child' is written dumu-du₁₀, and it was presumably actually pronounced /dumu du/. When the ergative case suffix -e 'by' is added, however, the same phrase was pronounced /dumu duge/. We know this is so because the writing system "picks up" the dropped consonant of the adjective and expresses it linked with the vowel in a following syllabic sign: dumu-du₁₀-ge. This hidden consonant is generally referred to by the German term $\underline{\text{Auslaut}}$ 'final sound', as in "the adjective du₁₀ has a /g/ Auslaut."

Our modern signlists assign values to such signs both with and without their Auslauts, thus giving both a "long" and "short" value for each sign, e.g.:

dùg, du ₁₀	'good'	kudr, ku ₅ 'to cut'
dug ₄ , du ₁₁	'to do'	níĝ, nì 'thing'
gudr, gu ₄	'bull, ox'	šag ₄ , šà 'heart, interior'

In older academic literature the long values were generally used everywhere; the phrase 'by the good child' would thus have been transliterated dumu-dùg-ge. But this has the disadvantage of suggesting to the reader that an actual doubling of the consonant took place, and, in fact, many names of Sumerian rulers, deities and cities known from the early days of Assyriology are still found cited in forms containing doubled consonants which do not reflect their actual Sumerian pronunciations, e.g. the goddess Inanna, rather than Inana, or the king Mesannepadda, rather than Mesanepada. After World War II, Sumerologists began to bring the transliteration of Sumerian more into line with its actual pronunciation by utilizing the system of short sign values which is still preferred by the majority of scholars, although there is now a tendency to return to the long values among some Old Sumerian specialists. Certainly it was the short values that were taught in the Old Babylonian scribal schools, to judge from the data of the Proto-Ea signlists (see J. Klein & T. Sharlach, Zeitschrift für Assyriologie 97 [2007] 4 n. 16). Eventually one must simply learn to be comfortable with both the long and short values of every sign which features an amissible final consonant, though at first it will be sufficient just to learn the short values together with their Auslauts, e.g. du₁₀(g), ku₅(dr), etc.

If hidden Auslauts create extra problems in the remembering of Sumerian signs or words, the rules of orthography offer one great consolation: a final consonant picked up and expressed overtly in a following syllabic sign is a good indication as to the correct reading of a polyvalent sign. For example, KA-ga can only be read either ka-ga 'in the mouth' or du₁₁-ga 'done', whereas KA-ma can only be read inim-ma 'of the word'.

Probably basically related to the preceding phenomenon is the non-significant doubling of consonants in other environments. For example, the verbal chain analyzed as mu+n+a+n+šúm 'he gave it to him' can be found written both as mu-na-an-šúm or mu-un-na-an-šúm, just as the phrase an+a 'in the sky' can be written an-a or an-na. Despite the inconsistency, such redundant writings can again provide help in the correct reading of polyvalent signs: AN-na can only be read an-na 'in the sky', while AN-re can only be read diĝir-re 'by the god'.

Direction of Writing

A shift in the reading and writing of signs took place sometime between the end of the Old Babylonian period (1600 BC) and ca. 1200 BC according to current theory, although at least one modern scholar places the onset of the change as early as ca. 2500 BC.

In the archaic pictographic texts signs were written from the top to the bottom of a column, and the pictures of objects represented by each sign are seen in their normal physical orientation. By 1200 BC signs were being written consistently left to right in a line, with the the orientation of signs thus now turned 90 degrees counter-

clockwise. In a signlist such as Labat's one will see the shift shown as having taken place sometime between the Archaic and Ur III periods, although a monumental inscription such as the law code stele of the later OB king Hammurapi, ca. 1750, still clearly shows the original direction of writing. Modern practice is to continue to publish cuneiform texts and to read cuneiform in the left to right orientation for all periods except for the earliest, even though this practice may be anachronistic for the middle 3rd to early 2nd millennium texts that form the classical Sumerian corpus. For a description of this phenomenon see S. Picchioni, "The Direction of Cuneiform Writing: Theory and Evidence," Studi Orientali e Linguistici 2 (1984-85) 11-26; M. Powell, "Three Problems in the History of Cuneiform Writing: Origins, Direction of Script, Literacy," in Visible Language XV/4 (1981) 419-440; and M. Fitzgerald, "pisan dub-ba and the Direction of Cuneiform Script," CDLI Bulletin 2003:2 on the Internet.

IV. READING CUNEIFORM

In summary, any particular Sumerian sign may have three kinds of uses:

- 1) It will usually have one or more logographic values, each with a different pronunciation. A single value may itself have more than one meaning, just as an English word may have more than one common meaning. Sumerian expresses the human experience with a relatively limited word stock; one must continually strive to develop a feeling for the basic meaning of any particular Sumerian word and how it can be used to convey a range of ideas for which modern languages use different individual words.
- 2) One of the logographic values of a sign may function as a determinative.
- 3) One or more of the logographic values may function as a syllabic sign.

For example, the sign AN can represent:

- the logogram an in the meaning 'sky, heaven'
- the logogram an in the meaning 'high area'
- the logogram an in the meaning '(the sky-god) An'
- the logogram diĝir 'god, goddess'
- the determinative (d) for deities, as in den-líl '(the god) Enlil'
- the syllable an, as in mu-na-an-šúm 'he gave it to him'
- the syllable am₆ (in Old Sumerian), as in lugal-am₆ 'he is king'

REMEMBER: A WORD WHICH FEATURES AN AMISSIBLE AUSLAUT DROPS ITS FINAL CONSONANT WHEN IT IS NOT FOLLOWED BY A VOWEL.

PHONOLOGY

What is known about the pronunciation of Sumerian has come down to us very much filtered through the sound system of Akkadian, the latter itself determined only by comparison with the better known phonemic systems of other Semitic languages.

A phoneme is a minimal speech sound (phone), or a small group of related sounds (allophones), which is capable of signaling a difference in meaning. In English, /b/ and /p/ are separate phonemes because they can differentiate two otherwise identical words, for example "bit" versus "pit." A phoneme can have several different pronunciations (allophones, phonological realizations) and still be recognized as "the same sound." For example, when spoken at normal conversational speed English "ten" and "city" feature two different "t" sounds. "City" has a flapped "d" a bit like the "r" in Spanish pero. Every language has a limited number of vocalic and consonantal phonemes which together constitute its unique phonemic inventory. Phonemes are indicated by slashes /b/, phones by square brackets [b].

The Akkadian scribal schools produced signlists and vocabularies which spelled out syllabically how Sumerian signs or words were to be pronounced. These syllabic spellings are the basis of our understanding of the Sumerian sound system, but they are essentially only Akkadian pronunciations of Sumerian vocables. Sounds or distinctions between sounds which did not exist in the Akkadian phonemic inventory were spelled out as best as possible, as the Akkadian speakers heard or understood them.

For example, the essential difference between the sounds that we transcribe as /b/ vs. /p/ or /d/ vs. /t/ and /g/ vs. /k/ might well have been one of minus or plus aspiration rather than a voiced vs. voiceless contrast as in English, i.e. [p] vs. [p^h].

Aspiration refers to a following slight puff of air. Voicing refers to the vibration of the vocal cords. A "b" is voiced, a "p" is voiceless. Unlike English, voiceless stops in French or Dutch, for example, are unaspirated.

But Akkadian, like English, probably featured only the latter phonemic contrast, and voiced vs. voiceless is how Akkadian speakers no doubt distinguished and pronounced the Sumerian sounds. Our standard transcription of the Sumerian sound system should thus be regarded as only an approximation of how Sumerian was actually pronounced.

VOWELS (§4-15)

Vowels definitely known to have phonemic status include /a/, /e/, /i/ and /u/. A few scholars, most notably S. Lieberman, have posited the existence of an /o/ phoneme, but this idea has not gained general acceptance. How the four standard vowels actually sounded in all phonological environments will never be known. By convention we pronounce them with roughly European values, as in Spanish or German; English speakers should by all means avoid English long (alphabet) pronunciations:

```
/a/ always as in "father", never as in "day" or "bat" /e/ as in "play" or "pet", never as in "she" /i/ as in "tree" or "tip", never as in "lie" /u/ as in "who" or "hood", never as in "use"
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Sumerian apparently had no true phonemic diphthongs such as /aw/ or /oy/. but there are indications of /w/ or /y/ semivowel glides between vowels, e.g. written mu-e-a-áĝ possibly pronounced as /m(u)weyaĝ/. A /y/ representing an /n/ before a root may lie behind writings such as ba-e- $\sqrt{}$ or ba-a- $\sqrt{}$ for ba-an- $\sqrt{}$ or ì-a- $\sqrt{}$ for in- $\sqrt{}$ in Ur III and OB texts.

When transcribing words Sumerologists will sometimes separate neighboring vowels with an apostrophe, as in the personal name written a-a-kal-la but transcribed A'akala. This particular convention is only for legibility; it does not

indicate in this context at least the presence of a Sumerian glottal stop, a catch or hiatus produced at the back of the throat, as between the two English words "I am" when pronounced slowly and distinctly.

Edzard, 2003 13f., claims the existence of vowel length within roots. See now a more nuanced discussion of vowel quality and length by E.J.M. Smith in Journal of Cuneiform Studies 59 (2007) 19-38. Elsewhere, length usually seems to be only allophonic, serving to take the place of another sound. In Pre-Old Babylonian periods compensatory lengthening may exist, most often the lengthening of a vowel to compensate for the loss of a following /n/. Thus an Ur III text might write in-gi-ì (presumably pronounced [ingi:] with or without nasalization) instead of in-gi-in (a colon [:] indicates lengthening of a preceding sound).

Certain vocalic elements will undergo regular sorts of modifications in specific grammatical and phonological environments. For the pattern of i/e vowel harmony in Old Sumerian Lagaš verbal prefixes see Thomsen §7. In all periods both progressive or anticipatory assimilation (conditioned by a preceding sound) and regressive or lag assimilation (conditioned by a following sound) are common in many environments, generally following predictable patterns.

Thomsen's discussion of vowel "contraction" (§14f.) is inadequate. The phenomena she describes have never been studied rigorously and as a whole, and will certainly turn out to be better described in terms of replacement or deletion of vowels rather than contraction. Specific assimilation, elision, and deletion phenomena will be described individually as they are encountered throughout this grammar.

CONSONANTS (§16-30)

The consonantal phonemes of Sumerian are conventionally represented as follows:

STOPS AND NASALS	Vo	Voiced Voiceless Nasal			Uncertain Articulation	
	Labial Dental Velar Glottal	b d g	p t k (2)	m n ĝ	dr	
FRICATIVES	Dental Palatal Velar Glottal	Z	s š h (H)	= IPA = IPA		
LIQUIDS	1 (l ₂)	r				

Stops

Stops are consonant sounds which feature an interruption or stopping of the air stream. As mentioned earlier, Sumerian stops may originally have featured a contrast other than voiced vs. voiceless, probably unaspirated vs. aspirated. This contrast is the source of some differing Akkadian spellings for the same Sumerian word, and since modern scholarship is based heavily upon Akkadian lexical materials the student will consequently encounter transliteration variations even in current Sumerological literature. In scholarly works one will find, for example, both gag and kak as spellings for the noun 'peg' or both bar and par for the verb 'to spread out'. P. Steinkeller maintains that "Sumerian roots did not have (what is traditionally transliterated as) voiceless consonants in the final position" (Zeitschrift für Assyriologie 71 [2001] 27; cf. I. J. Gelb MAD 2², 32f.). Accordingly the final stops permitted are thus only /b d g/ and not /p t k/, and one should, for example, read gag rather than kak at least in older Sumerian texts. This (allophonic?) rule is not rigorously observed in later periods, nor is it generally reflected in Sumerological literature.

The Phoneme /dr/

Most scholars now accept the existence of a phoneme currently spelled as /dr/, also spelled /d^r/ or /ř/. Edzard 2003, 18f. proposes instead /r/ with a caret (^). The pronunciation is still uncertain. It was first thought to be a biarticulated stop. More recently, Yang Zhi, in Journal of Ancient Civilizations 2 (Changchun [1987] 125) suggested that "The presence of an /s/ in the spelling of this city name [Adab, properly pronounced as /ud^rubu/] – especially in texts outside of Sumer (Ebla and Ugarit) – probably indicates that the consonant /*dr/ was a (retroflex?) fricative which was perceived in these areas as /s/ or at least closer to /s/ than to /r/ or /d/." In §3.3.2 of his forthcoming new grammar, A. Jagersma argues for an affricate of the shape [ts^h], the aspirated counterpart of the phoneme we transliterate as /z/ but which he claims was pronounced as an unaspirated voiceless [ts]. J. Black in RA 84 (1984) 108f., 117, summarized previous scholars' views concerning /dr/ and concluded that the writings which illustrate it "may be evidence of a sound change in progress (rhotacism) whereby intervocalic /-d-/ became /-r-/, or of synchronic alternation resulting from allophony" and that "There is no need to assume an 'extra' sound which is neither [d] nor [r]."

/dr/ has been identified in final position in a dozen or so words, thanks to a special Sumerian orthographic convention. When a word ending with /dr/ takes a grammatical suffix featuring a vowel /a/ or /e/, the combination of /dr/ and the following /a/ or /e/ will properly be written with a DU sign, to be read either rá or re₆ respectively. Thus {gudr+a(k)} 'of the ox' is written gud-rá while {gudr+e} 'by the ox' is written gud-re₆. (If /dr/ is indeed an actual phoneme, we should in fact probably be transcribing the DU sign as drá and dre₆ in such cases, but rá and re₆ remain the standard writings.) In the Akkadian-speaking environment of the Old Babylonian school texts the phoneme usually resolves itself ortho-graphically as a simple /d/ sound or occasionally as /r/.

The /dr/ phoneme may well occur in initial or medial position in other words, but at present there is no equally obvious way to identify such occurrences with certainty. Candidates for initial /dr/ include dù 'to build', based on the existence of its variant sign values dù/rú, also $de_5(g)/ri(g)$ 'to fall, fell', and du_7/ru_5 'to push, gore'. See Steinkeller, Journal of Near Eastern Studies 46 (1987) 56 n. 5 and Journal of Cuneiform Studies 35 (1983) 249f.

The Velar Nasal /ĝ/

The Akkadian sound system did not feature this phoneme, and the Akkadian lexical texts consequently spelled out Sumerian signs or words containing it only approximately, usually rendering it with a /g/, sometimes also with an /n/ or /m/, also with /ng/ or /mg/. As a result, the existence of the phoneme /ĝ/ was deduced only a few decades ago, and Sumerologists are only now beginning to use the symbol ĝ in close transliteration to distinguish the nasal /ĝ/ from the stop /g/. The practice is still not yet universal, and so, for example, balaĝ 'harp' or saĝ 'head' are frequently still written simply balag and sag, especially by Akkadologists. Note that in a number of Sumerian words now known to contain /ĝ/ the phoneme may also be found transcribed as an /n/ or /m/. For example, one finds the words kíĝ 'work', huĝ 'to rent' or alaĝ 'figure' still generally written kin, hun, and alam or alan in current publications, including signlists, although a sign value kíg, or even better proper kíĝ, is now beginning to be seen. Medial /ĝ/ is also seen regularly written ng or mg in a few words, most notably dingir for diĝir 'god' or nimgir for niĝir 'herald'. When learning Sumerian it is vital to learn to write and pronounce correctly all words containing this phoneme, regardless of the older spellings encountered in the literature or in internet publications using only a limited ASCII character set. It is now clear that /ĝ/ is a common phoneme in Sumerian, and that it can occur in any position in a word. In English, on the other hand, the sound occurs only in medial or final position, and some practice may be needed to pronounce it smoothly when it begins a word, as in ĝá-e 'I' or ĝuruš 'adult male'.

The presence of an $/\hat{g}/$ in final position is most clearly seen when the word is followed by a suffixed /a/ or /e/, in which case proper Sumerian orthography employs the sign $\hat{G}A$ to write a syllable composed of $/\hat{g}/$ and the following vowel. If the vowel is /a/, $\hat{G}A$ represents the sound $/\hat{g}a/$ and we transliterate it as $\hat{g}a$. If the vowel is /e/, the same sign is used,

but we must transliterate it as $\hat{g}e_{26}$ instead. Compare the participle $\{b\hat{u}lu\hat{g}+a\}$ 'nurtured' written $b\hat{u}lu\hat{g}-\hat{g}a$ with the infinitive $\{b\hat{u}lu\hat{g}+e+d+e\}$ 'to nurture' written $b\hat{u}lu\hat{g}-\hat{g}e_{26}-d\hat{e}$. The sign value $\hat{g}e_{26}$ is relatively new and is only now coming into general use. In older literature one will find only the sign value $\hat{g}a$, regardless of context. For completeness one must also mention the rare value $\hat{g}e_{8}(NE)$ seen in emesal dialect contexts.

We now know that to render the syllable $/\hat{g}u/$ the Sumerians used the sign MU, and so current scholars transliterate the sign as $\hat{g}u_{10}$ when the value featuring the velar nasal is required. Unfortunately, in all but the newest Sumerological literature the frequent 1st sg. possessive pronoun - $\hat{g}u_{10}$ 'my' will still be found written -mu, and once again the student must be aware of an older treatment of a sign while now carefully distinguishing between, and pronouncing properly, its correct values; thus, for example, mu 'name', but mu- $\hat{g}u_{10}$ (written MU-MU) 'my name'. To complicate matters, the writing -mu of the possessive pronoun is actually correct in some contexts. $/\hat{g}u/$ is the proper pronunciation for the word 'my' in emegir, the main dialect of Sumerian, while /mu/ is the pronunciation in emesal, the so-called women's dialect, which is also used in Sumerian liturgical texts.

Fricatives

We assume that the Sumerian sibilants /s/ and /z/ were pronounced approximately as in English, although A. Jagersma now describes /z/ as an unaspirated affricate [ts]. The phoneme /š/ is the sound "sh" as in "wish."

Fricatives refer to sounds produced by friction of the air stream against parts of the mouth or throat. A sibilant is a fricative produced in the front or middle of the mouth which has a hissing quality, like "s" or "f." A velar or glottal fricative is produced further back in the mouth or throat. An affricate combines a stop with a following fricative, like [ts] or [dz].

The phoneme usually transliterated as /h/ in Sumerological contexts is the sound written "ch" in German "doch," i.e. a voiceless velar fricative [x]. In Akkadian contexts and in typeset publications it is usually transliterated as an h with a breve below it /h/, but in unilingual contexts, as in this grammar, the diacritic can be omitted since, until very recently at least, the existence of a voiceless glottal fricative [h] phoneme, as in English "house," has not been accepted for Sumerian. Note, however, that D.O. Edzard 2003 (pp. 19-20) has tried to build a case for the existence of a kind of glottal "barrier" phoneme, perhaps a true [h] symbolized as /H/, which P. Attinger and a few others now describe as a glottal stop [2]. Jagersma 2010 now accepts both [h] and [2], the glottal stop being a significant phoneme in Sumerian.

Liquids

The precise pronunciations of the liquids are uncertain. The /r/ phoneme could have been trilled or flapped, as in Spanish perro or pero, or it could even have been a voiced velar fricative as is found in German or French. It was certainly not pronounced like the English /r/ which is a retroflexed vowel rather than a consonant.

Sumerian may have had two kinds of /l/ phonemes. The primary /l/ phoneme was probably pronounced approximately as it is in English, but this is only an assumption; several types of lateral resonants occur among the world's languages. The second /l/ phoneme may be evidenced thus far only in final position and in only a few words. If it truly exists, there is little evidence of how it was actually pronounced. It is indicated orthographically by the use of the sign LÁ rather than LA when a word ending with it is followed by an /a/ vowel as in líl+a(k) 'of the air' written líl-lá. This second /l/ phoneme is never given any distinguishing diacritic in our literature. It occurs only rarely, primarily in the words líl 'air', gibil 'new', pél 'to spoil', and $di_4(l)-di_4(l)-la/la$ 'little ones, children' (a specialized pronunciation variant of *tur-tur-ra), and perhaps also in ul, túl, dul/dul_4 and in a few more poorly attested roots. Palatalization [l^y] is suggested by writings such as é-ki-tuš-akkil-ìa(NI)-ni (Gudea 75 rev. 1) or perhaps lá(LAL)-ìa 'surplus'. Note also the

(etymological) /l/ and /n/ variation in certain words, e.g. lú versus the old noun formative nu-, lagal versus nagal 'vizier'; compare the sign LUM which can be read lum or núm. M. Yoshikawa, Acta Sumerologica 12 (1990) 339-344, offers arguments discounting the existence of a second /l/ phoneme. Jagersma 2010 also denies its existence.

STRESS-RELATED PHENOMENA

Since J. Krecher's groundbreaking "Verschlusslaute und Betonung im Sumerischen," in AOAT 1 (1969) 157ff., little further work has been accomplished on stress in Sumerian and its effects on word structure. Common pronunciation modifications in Sumerian that may be stress related are instances of aphaeresis, syncope, or apocope, that is, deletion of sounds at the beginning, middle or the ends of words. Compare the variants ù-sún/sún 'wild cow', or ù-tu(d)/tu(d) 'to give birth'. Examples of deleted sounds within reduplicated words are the adjectives dadag 'pure' < dág-dág or zazalag 'shining' < zalag-zalag. P. Steinkeller (Third-Millennium Texts in the Iraq Museum [1992] 47), following E. Sollberger, has recently reaffirmed a nice solution to the problem of the proper pronunciation of the word for 'goat', which had long been read uz but currently is read ud₅ to account for instances with a following -da sign. The long form of the word can be understood as /uzud/, which, when followed by a vowel becomes /uzd/, e.g. {uzud+a} > /uzuda/ > /uzda/ written ùz-da. When no vowel follows, /uzud/ may well reduce to /uz/, whence the standard sign value ÙZ. A reading ud₅ would therefore not be strictly necessary, though it is attested in Proto-Ea 875 and so must be regarded as the standard OB school value. A similar example may be the adjective commonly written kalag-ga 'strong', but which is probably better understood as a syncopated form {kalag+a} > /kalga/, in which case we should now regularly transliterate kal-ga. A slightly different phenomenon is the deletion of intervocalic nasals in pairs of sign values such as sumun/sun 'old', súmun/sún 'wild cow', sumur/súr 'angry', nimin/nin5 'forty', umuš/uš4 'understanding', tumu/tu15 'wind', etc. The phenomenon of sound deletion, some of which may be due to stress patterns, could be much more extensive in Sumerian than the conservative logographic writing system has led us to believe.

EMESAL DIALECT (§559-566)

In addition to the main dialect of Sumerian called eme- $gi_7(r)$ or eme- gi_{15} 'native tongue', there existed a female dialect or sociolect called eme-sal 'thin/fine tongue', used mainly for direct speech of female deities and in religious lamentations and liturgical texts recited by the gala priest recorded from the Old Babylonian to Late Babylonian periods. As briefly indicated above, it is differentiated from the main dialect mainly by regular sound changes, occasionally also by substitutions of different words altogether. See Manfred Schretter, Emesal-Studien (Innsbruck, 1990) for an exhaustive treatment of the subject and R. Borger in AOAT 305 (2003) 622f. for a list of commonly attested eme-sal words. See further Appendix 2 on p. 158.

NOUNS, ADJECTIVES AND ADVERBS

NOUNS AND NOMINAL COMPOUNDS (§47-78)

Words that can be classed as nouns in Sumerian, which can function as heads of nominal chains (see next lesson), include primary nouns like dumu 'child, son', or \acute{e} 'house, temple', and certain verbal roots employed as nouns such as bar 'exterior', u_5 'cabin', ti 'life', bùru 'hole', or ba 'allotment'. The stock of primary nouns was relatively limited, and the language relied in addition upon a large number of different types of nominal compounds to render experience, including most notably:

- 1) Compounds formed by (asyndetic) juxtaposition of primary nouns such as an-ki 'heaven and earth', saĝ-men 'head crown', é-kur 'house (that is a) mountain' (the temple of the god Enlil in Nippur), ka-làl 'mouth (that is) honey', an-úr 'heaven base' = 'horizon', an-šà 'heaven center', kalam-šà 'country interior', é-šà 'house interior', iri-bar 'city exterior' = 'suburb', é-muhaldim 'house (having a) cook' = 'kitchen'.
- 2) Compounds consisting of one or more nouns and a participle such as dub-sar 'tablet writer' = scribe', za-dím 'stone fashioner' = 'lapidary', balaĝ-di 'harp player', gu₄-gaz 'cattle slaughterer', kisal-luh 'courtyard cleaner', ki-ùr 'place (of) leveling)' = 'terrace', ki-tuš 'place (of) dwelling' = 'residence', sa-pàr 'net (of) spreading' = 'casting net', ĝír-udu-úš 'knife (of) sheep killing', lú-éš-gíd 'man (of) rope pulling' = 'surveyor', á-dah 'one who adds an arm' = 'helper'. Other examples can be found in the final lesson on participles.
- 3) Compounds consisting of a noun and a common adjective such as é-gal 'big house' = 'palace', dub-sar-mah 'chief scribe', kù-sig₁₇ 'silver (which is) yellow' = 'gold'.
- 4) Abstract nouns derived by means of the abstracting prefix nam- such as nam-lugal 'kingship', nam-mah 'loftiness', nam-ti(l) 'life', nam-úš 'death', nam-dumu 'children (as a group)', nam-um-ma 'old (wailing) women (as a group)'.
- 5) Compounds featuring the productive formative níĝ- 'thing' or the obsolete formative nu- 'person' (< lú), such as níĝ-gi-na 'verified thing' = 'truth, law', níĝ-gig 'bitter/sore thing, sacrilege', níĝ-sa₁₀ 'buying thing' = 'price', nu-bànda 'junior (boss-)man' = 'overseer', nu-kiri₆(-k) 'man of the orchard' = 'orchard-keeper', or nu-èš(-k) 'man of the shrine' = 'priest', the last two being genitive constructions.
- 6) Words which are in origin actually short phrases but which function syntactically as nouns, such as the frozen nominalized verbal forms ì-du₈ 'he opened' = 'gate-keeper' or in-dub-ba 'that which he heaped up' = 'demarcation mound' (see Sjöberg, Or 39 [1970] 81), cf. ì-dub 'it was heaped up' = 'granary'; or the frozen cohortative verbal forms like ga-ab-šúm 'let me give it' = 'seller', gab-kaš₄ 'let me make them run' = 'coachman, wagoner', or gan-tuš 'let me live here' = 'tenant'. Genitive phrases are common, e.g. gi-nindana(-k) 'reed of one nindan (length)' = 'measuring rod', or zà-mu(-k) 'edge of the year' = 'New Year'. Many terms for occupations are genitive phrases such as lú-ur₃-ra(-k) 'man of the loan' = 'creditor', or niĝir-sila(-k) 'herald of the street', as are many proper nouns, for example ^dnin-ĝír-su(-k) 'Lord of Ĝirsu' (chief male patron deity of the capital city of the state of Lagaš).
- 7) Independent participles with clear verbal meanings used as substantives such as îl 'carrier, porter'.

Gender (§37)

Sumerian features a kind of grammatical gender which has nothing to do with the natural gender categories masculine vs. feminine. Instead, nouns are viewed as either <u>personal</u>, referring to individual human beings, whether singular or plural, or <u>impersonal</u>, usually referring to persons viewed as a group (collectives), animals, places, or things. Some grammars use the linguistic terminology "animate" vs. "inanimate," which can be misleading, since the impersonal category is used not only for lifeless objects, but also for animals, groups of persons, and "objectified" individual persons referred to scornfully or dismissively such as slaves – all of which are certainly animate, living things.

The personal vs. impersonal distinction is made evident mainly in certain 3rd person pronoun forms, in the plural marking of nouns, and in the case marking of dative indirect objects. In the pronominal paradigms where the distinction is maintained, the personal category is nearly always signalled by the presence of a consonantal element /n/, the impersonal by the element /b/. The original difference between these elements was one of <u>deixis</u> (pointing, demonstrating), /n/ designating near-deixis 'this one here', and /b/ far-deixis 'that one there'.

As in many other languages, the 3rd person pronominal forms probably developed from demonstratives. The Sumerian pronominal suffix -bi, in fact, functions both as a possessive pronoun 'its, their' and as a demonstrative 'this, that', and the demonstrative suffix -ne 'this' and independent demonstrative pronoun ne-e(n) are certainly related to the possessive suffix -(a)ni 'his, her' and probably also to the personal plural locative-terminative verbal infix -ne- 'by/for them' and the nominal personal plural marker -(e)ne.

Number (§65-77)

Sumerian nouns may be understood as singular, plural, or collective (referring to items or individuals viewed as a group) in number. It is important to note that the language is flexible and does not always show a plural form where we might expect it. In addition, Sumerian features a great deal of redundancy in the marking of grammatical relations, and so, for example, if a subject is already marked as plural by a verbal affix, an explicit nominal marker of the plural can be omitted from the subject noun with no loss of meaning, and vice versa. To summarize the marking of number on nouns:

No Mark

The noun is usually singular, but may also be understood as plural or collective; information supplied by the verb or by the context will help to clarify. A number of nouns are intrinsically collective, for example érin 'workers, troops' or ugnim 'army'. In Old Sumerian texts collectives are very common, varying with plural forms; compare the occupation written ugula íl (collective) varying with ugula íl-ne (plural), both meaning 'foreman of porters'.

Reduplicated Noun The noun is plural, and the notion conveyed is possibly something akin to "all individual persons or items," for example en-en 'all the lords, every single lord'.

Reduplicated Ajective

Reduplication of adjectives may serve the same function as reduplication of nouns, as in diĝir gal-gal 'all the great gods'. Such a form probably represents an abbreviation of an underlying doubly reduplicated form diĝir-gal diĝir-gal, a construction that is rare but definitely occurring.

Plural Suffix -(e)ne

An explicit mark of the plural of personal nouns only (note that it features the personal gender deictic element /n/); it never occurs with animals or things. The basic form of the suffix seems to have been simply -ne; -e-ne properly appears only when a preceding noun ends in a consonant. This rule breaks down by the Old Babylonian period, however, where the epenthetic /e/ vowel may appear even when it is not needed to separate the initial /n/ of the suffix from a preceding consonant. Thus lugal-e-ne 'kings' and dumu-ne 'sons' are correctly written, while OB lú-ù-ne (< lú-e-ne) 'persons' is a common but hypercorrect writing (the epenthetic vowel often assimilates to a preceding vowel). The converse is true in Old Sumerian: -ne often appears where -e-ne is expected. Finally, -(e)ne may co-occur with plural reduplication, for example: en-en-né-ne 'all the lords', lugal-lugal-ne 'all the kings'.

Adjectival Suffix -hi-a A past participle meaning 'mixed'. Reserved usually for assortments or mixtures of animals or things, for example: u₈ udu-hi-a 'assorted ewes and rams' or anše-hi-a 'various donkeys (of different ages or sexes)'.

Several examples:

0.0.4 dabin <u>àga-ús-ne</u> gu₄-da ì-da-gu₇ 4 (ban) barley meal was eaten by the guards with (-da-) the oxen (Nik I 130 1:1-3 OS) (Here "guards" is written explicitly plural) {àga-ús+(e)ne}

0.0.3 dabin <u>àga-ús</u> é-gal-la ì-gu₇ 3 (ban) barley meal was eaten by the guards in (-a) the palace (Nik I 131 1:4-2:1 OS) (Here "guards" is a collective)

lú šuku dab₅-ba-ne The men who (-a) took subsistence allotments (HSS 3, 2 1:2 OS) $\{dab_5+a+(e)ne\}$

ARTICLES

Sumerian has no articles, either definite ("the") or indefinite ("a"). Thus the noun lugal may be translated 'the king', 'a king', or just 'king' as required by the context.

ADJECTIVES (§79-83)

Forms of Adjectives

Simple adjectives like gal 'big', tur 'small', mah 'great', or ĝen 'ordinary' are basically verbal roots functioning as noun modifiers: iri gal 'the big city', dumu tur 'the small child'. In form they are perfective participles (described in the final lesson).

Another common kind of adjective, also in form a (past) participle, can be produced from verbal stems using the nominalizing (relativizing) suffix -a, for example é dù-a 'the house which was built' = 'the built house'.

A third kind of adjective regularly takes a suffix -a, even though these seem to function as simple adjectives without any recognizable past participial meaning, for example kalag-a 'strong, mighty'. Whether this -a is indeed identical with the nominalizing suffix -a is still an open question.

Finally, simple adjectives may also occasionally take a suffix -a, but even after J. Krecher's major study (Orientalia 47 [Rome, 1978), 376-403, see Thomsen $\S 80$), it is ordinarily difficult to sense a difference in meaning between an adjective with and without -a, for example zi(d) vs. zi-da 'righteous, faithful'. That the distinction may be one of lesser or greater "determination" or "definiteness," for example lú du₁₀(g) 'a good man' vs. lú du₁₀-ga 'the good man', cannot be convincingly demonstrated. If the adjectival suffix -a is truely identical with the nominalizing particle -a, then the contrast may consist in whatever slight difference in meaning can be discerned between a simple adjective as a kind of present participle 'good man' and a past participle lú du₁₀-ga 'the man who is/was good', or the like.

tigi níĝ du₁₀(-ga) Constructions

Related to the problem of adjectives marked with the suffix -a are appositional attributive constructions which employ the term níĝ 'thing' between a head noun and a modifying adjective that often, though not always, features the suffix -a. A good example is the poetic expression tigi níĝ du_{10} -ga 'tigi-hymn which is a good thing' = 'the good tigi-hymn'. Following are three examples featuring adjectival roots with suffix -a and a níĝ which seems to serve only a stylistic purpose. The fourth example shows the same construction with kalag, which regularly takes the suffix -a:

dím-ma níĝ sa₆-ga excellent judgment (Šulgi B 10 Ur III) $\{sa_6(g)+a\}$

ĝišbun níĝ du₁₀-ga mu-un-na-an-ni-ĝál He produced a fine banquet there (-ni-) for her (-na-) (Iddin-Dagan A 204 OB)

 $\{du_{10}(g)+a\}$

asila níĝ húl-húl-la-šè
amidst very happy rejoicing
(RIME 4.3.7.3 Sumerian 74 OB)

uruda níĝ kal-ga
Strong Copper
(Debate Between Copper and Silver passim OB)

Multiple adjectives

A noun can be qualified by multiple adjectives (as well as other attributives), including participles (marked with -a), within a nominal chain, for example:

anše tur mah donkeys small and big (Nik I 203 iv 1 OS)

sá-du₁₁ kas gíg du₁₀-ga-kam {du₁₀(g)+(a)+ak+am} it is (-am) a regular offering of (-ak) good black beer (TSA 34 3:10 OS)

(lú) zu-a kal-la-ni {zu+a kal+a+(a)ni} (persons) who were known and dear to him (Lugalbanda and Enmerkar 5 OB)

Reduplication of Adjectives

Adjectives are often reduplicated, and it seems clear that this reduplication may signify either intensification of the adjectival idea or plurality of the modified noun (as noted above). Thus diĝir gal-gal might indicate 'the very great god' or more usually 'the great gods.' Many common adjectives reduplicate to indicate intensity, e.g. kal 'precious' vs. kal-kal 'very precious', or šen 'clean', vs. šen-šen 'very clean, immaculate'. Occasionally one encounters such revealing syntax as péš ĝiš-gi níĝ kun sù kun sù-da 'canebrake mice, things with very long tails' (Nanna's Journey 275 OB), where one might otherwise expect just níĝ kun sù-sù-da. Since adjectives are basically verbal roots, the plural reduplication of roots commonly seen in verbal forms is naturally to be expected also in adjectives. Cf. further the plural past participle de₃-de₅-ga 'collected ones (dead animals)' or níĝ-gi-na 'right thing, law' {gi(n)+a} vs. níĝ-gi-gi-na 'all the laws' (Gudea Statue B 7:38 Ur III). Some textual examples:

4 ninda-bàppir gal-gal 1 ninda-bàppir tur-tur 4 extra-big beer-breads, 1 extra-small beer-bread (Genava 26, 53 3:2-3 OS) Reference to a single bread makes the meaning unambiguous.

1 ^{giš}ù-suh₅ <u>gal-gal</u> 1 very large pine branch (VS 27, 44, 1:1 OS) Reference to a single branch makes the meaning unambiguous.

dim gal-gal ki-a mi-ni-si-si
Many (very) big mooring poles he sank into the earth
(Gudea, Cyl A 22:11 Ur III)
Verb shows plural reduplication, but the adjective is ambiguous.

2 mùd gaz-gaz-za 2 smashed m.-vessels (DP 488 2:2 OS) {gaz-gaz+a}

Unclear: plural reduplication or 'smashed to bits'?

In languages like Sumerian which show reduplicated nominal or verbal roots, color terms tend to be reduplicated. See the discussion by M. Civil, EBLA 1975-1985 (1987) 155 n. 32. In early texts some color adjectives are explicitly reduplicated. For the term 'white' the reduplicated pronunciation continues into later periods, though with a change in the writing: OS bar₆-bar₆ > OB babbar(BAR₆). The term 'black' on the other hand was rarely written reduplicated: gíg-gíg. More frequent was the writing gíg which is probably always to be read giggi(GÍG). Compare common OB ku₁₀-ku₁₀ (or kúkku)) 'dark'. Other color terms are only sometimes reduplicated in later periods, e.g. si_{12} - si_{12} (SIG₇) vs. sig_{7} (-ga) 'yellow/green',, or gùn-gùn(-na) vs. gùn(-na) 'multi-colored, dappled'. A few non-color adjectives are also standardly reduplicated, notably ku₇-ku₇ 'sweet', dadag 'pure' (< dág-dág), zazalag (< zalag-zalag) 'shining, clean'.

Transliterating Adjectives

In older text editions adjectives are regularly transliterated linked with hyphens to the nouns they modify. In modern editions more and more scholars omit the hyphens and transliterate adjectives as words separate from their head nouns. Both conventions have drawbacks. Linking the adjective aids in analysis and translation by emphasizing the structure of the nominal chain involved, but linking can also produce awkwardly long chains and can tend to obscure the notion of what is a word in Sumerian. As of its 2013 revision, this grammar will follow the new convention and show adjectives, including past participles marked with suffix -a, usually unlinked in transliteration except in the case of reduplicated adjectives, in compound nouns, whether standard or ad hoc, or in proper nouns (names of persons, temples, fields, and the like).

REMEMBER: THE PERSONAL GENDER CATEGORY REFERS TO PERSONS VIEWED

INDIVIDUALLY, WHETHER SINGULAR OR PLURAL.

THE IMPERSONAL GENDER CATEGORY NORMALLY REFERS TO PERSONS VIEWED AS A GROUP, TO SLAVES, TO ANIMALS, AND TO THINGS.

THE NOMINAL CHAIN

An ordinary Sumerian verbal sentence or clause will feature a verbal complex and one or more nominal complexes which correspond to such English syntactic categories as subject, object, indirect object, and adverbial or prepositional phrases. Because these complexes are partly <u>agglutinative</u> linkages of stems and affixed grammatical elements, they have come to be referred to as chain formations or simply <u>chains</u>. The next several lessons will discuss the component elements of nominal chains.

All complete nominal chains consist minimally of two elements: a head noun (simple, compound, or reduplicated) and a case marker which indicates the relationship between the head noun and the other parts of the sentence. The head noun may be modified by several other elements which, if present, fall between it and the case marker in a definite sequence. The position of each permitted class of element in the nominal chain is referred to as its <u>rank order</u> within the chain. The ordering of elements in the most basic type of nominal chain is as follows:

An independent pronoun may take the place of a noun in a nominal chain, but no modification of the pronoun is permitted. Such chains are therefore always quite short, taking the form:

In all subsequent illustrations of simple nominal (and verbal) chains, grammatical analyses will be shown as sequences of lexical and grammatical elements linked by pluses (+); the expected orthographic realizations will be shown as sequences of sign values linked by hyphens (-). In all illustrations of grammatical phenomena throughout this grammar, pay particular attention to the ways in which stems and agglutinative grammatical affixes combine and affect each other phonologically, and thus how each resulting chain is finally represented by the writing system. Below, for example, you will note that the final /i/ vowel of the possessive and demonstrative suffixes -(a)ni and -bi is regularly deleted before the plural marker -(e)ne, and that the initial /a/ or /e/ of the suffixes -(a)ni or -(e)ne is not present when the preceding element ends in a vowel.

As you begin, be careful also to note also regular orthographic conventions such as the optional non-significant "picking up" of a final consonant of a root in a syllabic sign used to write a following vowel, e.g. {gal+a} > gal-la rather than gal-a, or the choice of one sign rather than another in the writing of the same syllable in different grammatical contexts. In what context below, for example, does one find the written sign value né(NI) rather than ne, or bé(BI) rather than bi? What grammatical information is conveyed by these different writings? It is highly likely that certain Sumerian orthographic practices were designed intentionally to supply clues to correct understanding of forms!

Chain Elements		Written Realization	Case and Optional Affixes
dumu+Ø	>	dumu 'the son' (subject)	absolutive case (-Ø)
dumu+(a)ni+Ø	>	dumu-ni 'his/her son'	possessive + absolutive
dumu+(a)ni+e	>	dumu-né 'by his/her son'	possessive + ergative case (-e)

dumu+bi+e	>	dumu-bé 'by that son'	demonstrative + ergative
dumu+(e)ne+Ø	>	dumu-ne 'the sons'	plural + absolutive
dumu dumu+Ø	>	dumu dumu 'all the sons'	reduplication + absolutive
dumu tur+ra	>	dumu tur-ra 'for the small son'	adjective + dative case (-ra)
dumu tur+(a)ni+Ø	>	dumu tur-ra-ni 'his/her small son'	adjective + possessive + absolutive
dumu tur+bi+ra	>	dumu tur-bi-ra 'for that small son'	adjective + demonstrative + dative
dumu tur+(e)ne+ra	>	dumu tur-re-ne-ra 'for the small sons'	adjective + plural + dative
dumu+(a)ni+(e)ne+ra	>	dumu-né-ne-ra 'for his/her sons'	possessive + plural + dative
dumu tur+bi+(e)ne+da	>	dumu tur-bé-ne-da 'with those small sons'	adjective + demonstrative + plural + comitative case (-da)

When analyzing longer nominal chains it is sometimes helpful to think of a chain as a concatention of subunits, each unit, when modified by a following element, forming with that element a new, larger unit which then may be modified by another following element, and so forth. To illustrate, the last example can be progressively built up as follows:

The analysis of a nominal chain becomes a bit more difficult when the head noun is further modified, either by a genitive construction or when the ADJECTIVE slot in the chain is filled by more complex attributives such as relative clauses or varieties of appositions. Such expanded types of nominal chain will be seen in later discussions of the genitive case marker and of the nominalizing suffix -a.

Keep in mind that the head noun of a nominal chain need not be a single noun. It can be a nominal compound such as those described in the previous lesson, a noun pluralized by reduplication such as diĝir diĝir 'all the gods', an asyndetic compound of two different nouns such as an ki 'heaven (and) earth' or ama ad-da 'mother (and) father', or an apposition such as iri úri^{ki} 'the city Ur'. For example:

dub-sar tur-re-ne the junior scribes en en-bi all those lords

an ki-a in (-a) heaven and earth

ama ad-da-ni his mother and father

iri Lagaš^{ki}-a in the city Lagaš

Bahuvrihi modifiers

A very common type of modification of the head noun in Sumerian is the bahuvrihi attributive. This term from Sanskrit grammar means '(having or characterized by) much rice' and describes <u>paratactic</u> phrases such as lugal á dugud, which is to be translated not 'king who <u>is</u> a weighty arm' (apposition) but rather 'king who <u>has</u> a weighty arm'. Likewise é bur sa₇-sa₇ is a 'temple having many beautifully formed bur vessels', or ùĝ saĝ gíg-ga 'the people having black heads' = the Sumerians.

Copula-final chains

A nominal chain will sometimes end with an enclitic copula (one of Sumerian's two verbs "to be"). When this occurs, the copula can replace the final case marker, and the relationship of that chain to the rest of the sentence will be indicated by the verbal chain or must be inferred from context. See the later lesson on the copula.

A copula may also be seen following a case marker especially in short adverbial expressions as in $\{a-na+\check{s}\grave{e}+(a)m\}$ ('what' + terminative case + copula 'it is') > $a-na-\check{s}\grave{e}-\grave{a}m$ 'it is for what' = 'why?', or in predicative genitive constructions such as $\{\hat{g}\acute{a}+ak+am\}$ ('I' + genitive case + 'it is') > $\hat{g}\acute{a}-kam$ 'it is of me' = 'it is mine'. Compare ki-siki-bi-ta-me 'they (the women) are (-me) from (-ta) that place of wool (weaving)' (HSS 3, 24 6:11 OS).

Preposed adjectives

Adjectives virtually always follow the nouns they modify, in accordance with their rank-order position within the nominal chain. One frequent exception occurs in literary texts, where the adjective kù(g) 'holy' can be found preceding the name of a divinity or even an epic hero: kù dinana(-k) 'Holy Inana', kù lugal-bàn-da 'Holy Lugalbanda' (Lugalbanda and Anzu 351/353). kù here is better described as a foregrounded (emphasized) adjective standing in apposition to a following noun: 'the holy one, Inana'. This poetic form must be kept distinct from personal names which are genitive constructions of the form kù-dDN(-ak) 'Silver of (a Divine Name)', which have Akkadian parallels of the shape *kasap*-DN. See G. Marchesi, LUMMA (Padova, 2006) 73 n. 384.

REMEMBER: A PROPER NOMINAL CHAIN REGULARLY ENDS WITH A CASE MARKER!

THE PARTS OF A NOMINAL CHAIN ALWAYS APPEAR IN A FIXED ORDER. KEEP THIS RANK ORDER FIRMLY IN MIND!

PRONOUNS AND DEMONSTRATIVES

Early Sumerian texts preserve only a relatively small number of basic pronouns; most plural forms are conspicuously absent. Fuller paradigms can be reconstructed from the later literary and grammatical texts produced in the Akkadian scribal schools, but the traditions behind these sources are uncertain and the forms they display often seem fanciful or otherwise doubtful.

Many Sumerian pronominal forms appear to be historically related, and some are obviously secondary, especially 1st and 2nd person plurals (see the independent pronoun paradigm below). Such secondary forms may have originated by analogy with the fuller paradigms of Akkadian. A few may even have been the work of Akkadian scribes who, unhappy with the more limited Sumerian patterns, filled in the paradigms with artificial forms of their own creation. Whatever the source, some pronominal forms are only attested from periods in which Sumerian was no longer a living language – in some cases only in scholastic grammatical texts – and these must be viewed with caution. In other cases forms are as yet not attested or probably never existed at all.

In the various pronominal paradigms detailed throughout this introduction and also gathered together for ease of comparison in the Summary of Personal Pronoun Forms at the end of this lesson (p. 37), pronominal elements which are theoretically predictable but not yet actually or reliably attested are indicated by a question mark (?), while elements which the general pattern of the language seems to preclude entirely are indicated by a dash (—).

INDEPENDENT PRONOUNS (§90-99)

The following are the standard citation forms:

Sg	1 ĝá-e (older ĝe ₂₆) 2 za-e (older zé)	I, me you	(or ĝe ₂₆ -e)
	3p e-ne (older a-ne)	he, him, she, her	(OB also rarely èn)
Pl	1 me-en-dè-en 2 me-en-zé-en	(it is) we, us (it is) you	
	3p e-ne-ne (older a-ne-ne)	they (personal), them	
ı		ı	

Like nouns, independent pronouns can appear as heads of nominal chains and take case postpositions to indicate their relationship to the rest of the sentence. The Summary of Personal Pronoun Forms illustrates how they combine phonologically and orthographically with following case markers. Note that what appears to be the demonstrative (or ergative?) suffix -e seems to have been historically added onto the later forms of some of these pronouns. This -e element probably had an original determining or topicalizing function. In view of the 2nd person sg. form zé, found in the Gudea inscriptions, it is possible that the normal citation form of the 1st sg. should actually be read ge_{26} -e (just ge_{26} in Gudea), in earlier periods at least. Alternately, the two forms may be historical elisions: $ge_{26} > ge_{26}$, $ge_{26} > ge_{26}$. The 3rd person forms a-ne and a-ne-ne are found in the Gudea texts and earlier. Finally, the 1st and 2nd plurals are merely free-standing forms of the enclitic copula: -me-en-dè-en 'we are', -me-en-zé-en 'you are'.

Since the affixes of the verbal complex are already capable of expressing most required pronominal ideas, the independent pronouns are generally used only for emphasis or clarity. The chief exception is their use in nominal sentences, especially combined with the genitive and the copular verb "to be" in predicative genitive constructions, e.g. níĝ-bi ĝá-a-kam 'that thing is (-am) mine', for which see the next lesson.

Note in passing that the interjection ga-na 'Up! Come on!' found in the Gudea cylinders usually read by students, is not related either to the 1st sg. independent pronoun or to the verb gen 'to come'.

POSSESSIVE SUFFIXES (§101-110)

The Form of the Possessive Pronouns

The Summary of Personal Pronoun Forms illustrates how the possessive suffixes combine with following case markers (be aware that most plural forms are hypothetical). See also Thomsen §105-106. I would add the following notes and alternative explanations to Thomsen's description of these elements:

The main task involved in learning the possessive suffixes is recognizing the ways in which they combine with following elements, the singular forms in particular since many plurals are rarely, if ever, attested in the living stages of the language. You will recall from the discussion of the rank order of the nominal chain that the elements which can follow possessives in a nominal chain include only the personal plural marker -(e)ne, the case markers, and/or the enclitic copula. Compare the paradigms of the possessive pronouns plus following absolutive, ergative, and locative case markers:

	ABSOLUTIVE (-Ø)			ERGATIVE (-e) LOCTERM. (-e)		LOCATIVE (-a)	
Sg	1 -ĝu ₁₀	my	-ĝu ₁₀	by my	-ĝá	in my	
	2 -zu	your	-zu	by your	-za	in your	
	3p -(a)ni	his/her	-(a)né	by his/her	-(a)na	in his/her	
	3i -bi	its	-bé	by its	-ba	in its	
P1	1 -me	our	-me	by our	-me-a	in our	
	2 -zu-ne-ne	your (pl.)	-zu-ne-ne	by your	-zu-ne-ne-a	in your	
	3p -(a)ne-ne	their	-(a)ne-ne	by their	-(a)ne-ne-a	in their	

The first column shows the standard citation forms of the possessive pronouns. The mark of the absolutive, the case of the subject or patient, is a zero morph (i.e. no overt suffix, conventionally represented by the symbol \emptyset).

Note that the mark of BOTH the ergative and the locative-terminative cases is -e. In normal orthography -e seldom appears in any clear, obvious form after possessives. Exceptions do occur, for example such writings as -(a)-ni-e in the royal inscriptions of Gudea (ca. 2120 BC), probably to be transliterated rather as -(a)-né-e. In the Ur III Shulgi hymns (originals composed ca. 2075 BC) we find $-\hat{g}u_{10}$ -u₈ < $-\hat{g}u_{10}$ -e, i.e. an assimilation of -e to the preceding /u/ vowel and a possible lengthening: / $\hat{g}ue$ / > / $\hat{g}uu$ / pronounced [$\hat{g}u$:]. On the whole, however, one normally cannot distinguish between possessives with and without a following -e, and a nominal chain showing only a possessive at the end could therefore represent either a syntactic subject/patient (absolutive case) or an ergative agent or a locative-terminative indirect object. Thus the phrase lugal- $\hat{g}u_{10}$ could represent either 'my king' {lugal+ $\hat{g}u_{10}$ + \hat{Q} } or 'by my king' {lugal+ $\hat{g}u_{10}$ +e}. Keep in mind, then, that if a sentence seems to lack a needed ergative or locative-terminative case marker it may well be hidden in a possessive suffix.

Related to this phenomenon is the matter discussed by Thomsen in §107. As the Table of Syllabic Sign Values (p. 157) shows, the NI and BI signs can also be read né and bé; the choice of values is entirely up to the reader of a text. Though it is not universal practice, in this grammar the presence of a presumed case marker -e after the possessive suffixes -ni and -bi will consistently be indicated by the transliterations -né and -bé. Thus {lugal+(a)ni+Ø}

'his king (subject)' should be transliterated as lugal-a-ni, but {lugal+(a)ni+e} 'by his king' (ergative) as lugal-a-né. For the deletion of the /i/ vowels in the 3rd person sg. ergative and locative-terminative forms compare the possessive pronouns + personal plural element –(e)ne paradigm shown immediately below.

The locative case is marked by the suffix -a. Like ergative and locative-terminative -e it properly replaces the /u/ and /i/ vowels of the singular possessive pronouns, but unlike them it always appears overtly after the /e/ vowels of the plural possessive pronouns. In fact, the locative should never elide to any preceding vowel regardless of the context. Exceptions to the standard paradigm do occur, however, especially in connection with the pronominal suffixes -(a)ni and -bi. Compare two nearly exactly parallel Gudea passages, Statue B 8:34-37 and Cylinder B 18:1-3. The first shows the two terms zà-ba 'at its edge' and é-bi-a 'within its temple' while the second passage writes the same forms, conversely, as zà-bi-a and é-ba. The variation must be stylistic.

Thomsen (§104) believes that the initial /a/ vowel of the 3rd sg. and pl. forms -(a)ni and -(a)ne-ne is *deleted* before vowels. It is the view here, rather, that the basic shapes of the pronouns are -ni and -ne-ne respectively, and that an epenthetic or helping vowel /a/ is *inserted* before them whenever a preceding stem ends in a consonant. Compare the similar use of /e/ in the personal plural marker -(e)ne. These helping vowels are regularly written in classical OB Sumerian, but are frequently omitted, at least in writing, in earlier periods. Thus, a Pre-Sargonic or Gudea text may write lugal-ni 'his king' or lugal-ne 'kings', while the later Akkadian scribes will adhere to the rules and regularly write lugal-a-ni and lugal-e-ne. Having lost contact with the practices of the spoken language, later scribes even begin to regard the helping vowels as required parts of the suffixes and often write helping vowels where they are not needed, as in lú-ù-ne instead of lú-ne < lú+(e)ne 'men, persons'. Do not yield to the temptation of adjusting early, apparently "defective" writings by inserting an /a/ or /e/ into your transliterations of actual text, e.g. lugala-ni, lugal(a)-ni, or lugal-(e)ne. The Sumerians probably pronounced the helping vowels, but they felt no need to write them consistantly, and neither should we. Transliterate as written: lugal-ni, lugal-ne, etc.

In reading texts one will encounter the possessive chain -zu-ne as well as the paradigmatic 2nd person pl. possessive suffix -zu-ne-ne. Do not confuse them; they render different ideas. -zu-ne-ne is the proper possessive pronoun, which usually occurs with a sg. head noun, for example {dumu+zunene} > dumu-zu-ne-ne 'your (pl.) son'. -zu-ne represents a 2nd person sg. -zu suffix plus the personal pl. element -(e)ne, and it indicates a plural personal noun, for example {dumu+zu+(e)ne} > dumu-zu-ne 'your (sg.) sons'.

The rank order of the nominal chain permits the insertion of a personal plural marker between a possessive suffix and a following case marker. The plural marker -(e)ne combines with the singular possessives as follows (plural suffixes plus -(e)ne are, to my knowledge, unattested, barring a few odd -ne-ne-ne variant writings of regular pronouns):

	SINGULAR		PLURAL	
1 2 3p 3i	lugal-ĝu ₁₀ lugal-zu lugal-a-ni lugal-bi	my king your king his/her king its/their king	lugal-ĝu ₁₀ -ne lugal-zu-ne lugal-a-né-ne lugal-bé-ne	my kings your kings his kings its kings
1				

Note that the epenthetic vowel /e/ of the plural marker -(e)ne does not appear after the /u/ vowel of the 1st and 2nd person forms. Conversely, the /i/ vowel of the 3rd sg. personal -(a)ni and impersonal -bi is deleted, and /e/ does appear after the resulting consonantal sounds /n/ and /b/. Compare the similar phenomena in the possessive pronoun plus ergative case paradigm above. The same deletion of /i/ occurs when -(a)ni or -bi are followed by the genitive (-ak) or locative (-a) postpositions (producing -(a)na or -ba, see next lesson), and these deletion patterns provide good illustrations of the view held throughout this grammar that in Sumerian the preponderance of grammatical information is

conveyed principally by consonantal elements, associated vowels serving in many contexts only prosthetically or epenthetically (historically speaking) - i.e. as helping or <u>anaptictic</u> sounds at the beginning or in the middle of words respectively - to initiate or separate consonantal elements and so to render them pronounceable.

Uses of the Possessive Pronouns

In addition to literal possession, these pronouns can also indicate a more general referential connection between the possessor and the possessed.

(1) They can indicate a subjective genitive relationship:

```
ki-áĝ-ĝá-ni-me-en
You are (-me-en) her beloved (i.e. the one loved by her).
(Enmerkar and Ensuhgirana 277 OB)
```

(2) They can indicate an objective genitive relationship:

```
a-ba-a ĝá-gin<sub>7</sub> búr-búr-bi mu-zu
Who like me will know its revealing (i.e. the revealing of it)?
(Šulgi C 111 Ur III)
á-tuku hul-ĝál érim-du-bé-ne tu<sub>10</sub>-tu<sub>10</sub>-bi kè(AK)-dè
Its mighty, evil-doing, inimical ones: in order to perform their smiting (i.e. the smiting of them)
(Civil, JCS 21, 29 1:46-48 Ur III)
```

(3) They can indicate kinds of indirect object relationships:

```
nam-ti-il níĝ-gig-ga-ni hé-a
May life be his hurtful thing (i.e. be hurtful to him)!
(Urnamma 28 2:13-14 Ur III)
den-líl-le sipa dur-dnamma-ra ki-bala érim-gál-la-né si mu-na-an-sá
Enlil put in order for Ur-Namma his hostile rebel lands (i.e. those hostile to him)
(Urnamma B 14 Ur III)
inim é-gal-kam inim-ĝar-bi nu-mu-tùm
It is a command of the palace. He shall not bring up its complaint (i.e. a complaint about it)!
(Sollberger, TCS 1, 130:10-11 Ur III)
tukum-bi Ur-àm-ma sipa nam-érim-bi ù-un-ku<sub>5</sub> dub-bi zi-re-dam
If Ur'amma the shepherd has sworn an oath about this, its tablet (i.e. the
one concerning this) is to be canceled
(Fish, Cat 533:7-10 Ur III)
nin<sub>9</sub> bàn-da-ĝu<sub>10</sub>-gin<sub>7</sub> ír-ĝu<sub>10</sub> hé-še<sub>8</sub>-še<sub>8</sub>
May you weep my tears (i.e. tears concerning me) like my little sister!
(Dumuzi's Dream 14 OB)
arhuš-ĝu<sub>10</sub> igi-ni-šè hu-mu-ra-ab-bé
May you say my mercy (i.e. mercy for me) before him!
(Hallo, AOAT 25, 218:36 Larsa letter)
```

ĝá-e ús-sa-zu-me-en I am your follower (i.e. the one who follows <u>after</u> you) (Enmerkar and Ensuhgirana 278 OB)

é-gal-la-na níĝ-gu₇ la-ba-na-ĝál tuš-ù-bi nu-ub-du₇ In his palace there was nothing for him to eat, its dwelling (i.e. dwelling <u>in</u> it) was not suitable there (Lament over Sumer and Ur 307)

{tuš+e+bi+Ø}

(4) They can indicate an even more tangential connection or relationship:

a-ĝu₁₀ šà-ga šu ba-ni-du₁₁ You put my seed (i.e. the seed for the begetting of me) in the womb (Gudea, Cyl A 3:8 Ur III)

alaĝ-na-ni mu-tu nam-šita-e ba-gub He created his stone figure (i.e. a figure of himself) and set it up for prayer (Gudea Statue M 2:7-3:2 Ur III)

iri-na ú-si₁₉-ni zà-bi-a mu-da-a-nú In his city, his unclean ones (i.e. those unclean with respect to him) he made lie out away from him (mu-da-) at (-a) its edges (Gudea Cvl B 18:1) $\{mu+n+da+n+n\acute{u}\}$

gištir-zu mes kur-ra hé-em

 $^{\mathrm{gi}\S}$ gu-za-bé é-gal lugal-la-ke $_4$ [me]-te hé-em-mi-ib-ĝál

May your forests be mes-trees of the mountains!

May their chairs (i.e. ones made of them) produce something fit for (-e) the king's palace! (Enki and the World Order 221f. OB)

eger-ra ba-úš-zu ga-na-ab-du₁₁ ér-zu hé-še₈-še₈ (If) afterwards I tell her about your "he died," she will cry tears about you (Gilgameš and Huwawa A 99 (106))

DEMONSTRATIVE ELEMENTS (§133-138)

-bi 'that, this'

-bi functions both as the 3rd sg. impersonal possessive suffix and as the most commonly used demonstrative, and so it can be translated 'its, their, that, this, those' depending upon context. The demonstrative sense is probably the more basic, properly referring to far-deixis, 'that one there', though frequently its demonstrative force is more general: 'the pertinent or relevant one'; in certain contexts it has been compared to our article "the" (P. Steinkeller, Sale Documents p. 34 n. 59, p. 93 n. 271).

-ne "this"

-ne indicates near-deixis, 'this one here'. -ne is rare; do not confuse it with the personal plural suffix -(e)ne. This demonstrative occurs both as an adjective, e.g. u₄-ne-a 'on this day' (in Enki and Ninhursaĝa 50), and as an independent pronoun ne-en, e.g. u₄ ne-en 'this storm' (in Lamentation Over Ur 137), or ne-e, or just ne (compare the copular form ne-me(š) 'these are they' in Steinkeller, Sale Documents No. 45:10 Ur III) or níĝ ne-e '(who has done) this thing' in Ur-Namma Hymn A 156). For a possible origin note ne-e = níĝ-e = Akk. *an-[nu-ú]* 'this' (Emesal Vocabulary III 157 in MSL IV 42), which identifies ne-e as the Emesal pronunciation of the main dialect word meaning 'this thing', also the writing ne-dé-a for usual níĝ-dé-a 'marriage gifts' in Codex Ur-Namma 349 or syllabic ne-saĝ and níĝ-saĝ writings for nesaĝ.

'that one there' -ri indicates remoteness in space or time, 'that one yonder, way over there, way back then'. Cf. the later lexical equivalent $nes\hat{u}$ 'to withdraw, recede'. Non-lexical references are rare except in stereotypical phrases. It occupies the position of an adjective in the nominal chain, e.g. u_4 -ri-a 'on that remote day, in olden times'. The connection of this -ri with a homophonous suffix, the Isolating Postposition -ri, is unclear (see M. Green, JCS 30 [1978] 145).

-e this, the'

-e seems to have a a near-deixis or determining force, '(as for) this one'. Like its counterpart

-ri, it functions as an adjective, especially in standard expressions built on the noun gú 'river

bank', e.g. gú-ri-ta ... gú-e-ta 'from yonder side, over there ... from this side, over here' (Enlil

and Sud 70 OB).

-še 'that nearby' -še is a rare suffix known mainly from lexical sources. It may have the sense 'near one's addressee' (M. Civil & R. Biggs, RA 60 [1966] 7). Its most famous context passage is in Gilgameš and Agga 89-91: ^dgílgameš bàd-da gú-na im-ma-an-lá, igi bar-re-da-ni ag-ga igi ba-ni-in-du₈, árad lú-še lugal-zu-ù 'Gilgameš leaned out over the wall. As he was observing, Agga saw him (and said): Slave, is that man over there by you your king?'

ur₅ 'this (one)' This is an independent impersonal pronoun, occurring especially in such phrases as ur_5 -gin₇ 'like this, thus' or ur_5 -šè(-àm) '(it is) because of this'.

INTERROGATIVE PRONOUNS (§111-127)

The basic interrogative pronouns are a-ba 'who?' (personal), a-na 'what?' (impersonal), and me-a 'where?'. They normally occur with case markers and/or the copula to form a variety of interrogative expressions. The commonest such expressions include (-am is the 3rd sg. enclitic copula 'he/she/it is'):

it is who? who is it? a-ba-àm a-na-aš/šè(-àm) (it is) for what? = why? a-na-àm it is what? why? a-na-gin₇(-nam) (it is) like what? how? in where? where? me-a me-šè towards where? whither? from where? whence? me-ta cf. en-na-me-šè, en-šè to until? how long?

REFLEXIVE EXPRESSIONS (§129-132)

ní 'self' can occur either as a self-standing noun as in the compound verb ní - te(n) 'to cool oneself, relax', or modified by a possessive suffix as in ní-zu 'yourself'. It is often combined with a possessive suffix and dimensional case postposition to produce adverbial expressions such as:

ní-ba in itself, by itself, on its own ní-bi-ta by itself, by themselves ní-bi-šè for itself, by itself

Used with genitive -ak it may be translated '(one's) own' as in $\{ \acute{e} \ n\acute{i} + \^gu_{10} + ak + a \} > \acute{e} \ n\acute{i} - \^g\acute{a}$ -ka 'in (-a) the house of (-ak) my self' = 'in my own house'.

A related expression is built on the nominal phrase ní-te (var. me-te) 'approaching oneself'. It occurs in 3rd person expressions such as:

ní-te-ni himself, herself $\{ni-te+(a)ni+\emptyset\}$ by himself, herself {ní-te+(a)ni+e} ní-te-né by themselves {ní-te+(a)nene+e} ní-te-ne-ne his/her own $\{ni-te+(a)ni+ak+\emptyset\}$ ní-te-na ní-te-a-ni-ta by his own free will {ní-te+(a)ni+ta}

INDEFINITE ADJECTIVE (§128)

The indefinite adjective na-me 'any' functions as a neutral term and may be translated positively or negatively depending upon whether the verbal form with which it occurs is positive or negative, e.g. lugal na-me nu-um-gen 'some king did not come = no king came'. It often modifies lú 'person', níĝ 'thing', ki 'place', or u₄ 'day, time':

lú na-me some(one), any(one), no (one), none something, anything, nothing níĝ na-me

somewhere, nowhere ki na-me sometime, never u₄ na-me

Since it is often used elliptically, e.g. <\u00edu> na-me, it has also been described as an indefinite pronoun. Like other adjectives, it may transliterated either linked with a hyphen to a preceding head noun or left as a self-standing word. And like other adjectives it will normally appear in a nominal chain ending in a case marker, e.g. ki na-me-šè 'to some/ no other place' (TCS 1, 77:5 Ur III), é-a še na-me nu-ĝál 'there is not any barley in the house' (MVN 11, 168:13 Ur III).

RELATIVE PRONOUNS

The following nouns or interrogative pronouns can function as virtual relative pronouns in contexts discussed in the later lesson on relative clauses and the nominalizing particle -a:

1ú the person (who) the thing (which) níĝ ki the place (where) (the one) who a-ba (that) which a-na

For an analysis of these terms as head nouns rather than true relative pronouns, see F. Karahashi, "Relative Clauses in Sumerian Revisited. An Interpretation of lú and níĝ from a Syntactic Point of View," AV Jeremy Black (2010) 165-171.

REMEMBER: A NEEDED ERGATIVE OR LOCATIVE-TERMINATIVE POSTPOSITION -e

MAY BE HIDDEN IN A PRECEDING POSSESSIVE PRONOUN!

THE POSSESSIVE PRONOUN -bi 'ITS, THEIR' ALSO REGULARLY

FUNCTIONS AS A DEMONSTRATIVE 'THIS, THAT'!

SUMMARY OF PERSONAL PRONOUN FORMS

INDEPENDENT PRONOUNS (§91)

Absolutive & Ergative (Ø/e)		Dative (ra/r)	Dimensional (da/ta/šè)
1 2 3p	ĝá-e (ĝe ₂₆ -e) za-e (older zé) e-ne (older a-ne)	ĝá-(a)-ra/ar* za-(a)-ra/ar* e-ne-ra/er	ĝá-(a)-da* za-(a)-da* e-ne-da
1 2 3p	me-en-dè-en me-en-zé-en e-ne-ne (older a-ne-ne)	 e-ne-ne-ra/er	 e-ne-ne-da

^{*}An -e- or assimilated -a- vowel may occur between the pronouns and case markers in 1st and 2nd sg. forms.

POSSESSIVE PRONOUNS (§101-110)

Absolu	tive (Ø)	Ergative (e) LocTerm (e)	Dative (ra)	Terminative (šè)
1	-ĝu ₁₀	-ĝu ₁₀	-ĝu ₁₀ -ra/ur	-ĝu ₁₀ -šè/uš
2	-zu	-zu	-zu-ra/ur	-zu-šè/uš
3p	-(a)-ni	-(a)-né	-(a)-ni-ra/ir	-(a)-ni-šè/iš
3i	-bi	-bé	-bi-ra/ir	-bi-šè/iš
1	-me	-me	-me-ra/(er?) -zu-ne-ne-ra/er -(a)-ne-ne-ra/er	-me-šè
2	-zu-ne-ne	-zu-ne-ne		-zu-ne-ne-šè
3p	-(a)-ne-ne	-(a)-ne-ne		-(a)-ne-ne-šè
Genitiv	ve (ak)	Locative (a)	Dimensional (da/ta/šè)	Plural ((e)ne)
1	-ĝá	-ĝá	-ĝu ₁₀ -da	-ĝu ₁₀ -ne
2	-za	-za	-zu-da	-zu-ne
3p	-(a)-na	-(a)-na	-(a)-ni-da	-(a)-né-ne
3i	-ba	-ba	-bi-da	-bé-ne
1	-me	-me-a	-me-da	?
2	-zu-ne-ne	-zu-ne-ne-a	-zu-ne-ne-da	?
3p	-(a)-ne-ne	-(a)-ne-ne-a	-(a)-ne-ne-da	?

Note that some plural forms are reconstructed or attested only in OB or later grammatical texts.

THE ADNOMINAL CASES: GENITIVE AND EQUATIVE

The ten suffixed case markers of Sumerian are conventionally referred to as <u>postpositions</u> since they stand after the nouns to which they refer, in contrast to the English prepositions which render similar ideas but which stand before the nouns to which they refer. The case postpositions fall into two broad categories.

The genitive and equative cases usually indicate relationships between one noun (or pronoun) and another and so may be described as <u>adnominal</u> in function. The remaining cases are <u>adverbal</u> in function, serving primarily to indicate relationships between nominal chains and verbs. Since they only relate substantives, the genitive and equative cases are marked only by nominal postpositions. The adverbal cases, which mark verbal subjects, agents, and objects, and convey locational or directional ideas, are, by contrast, marked not only by nominal postpositions, but often also by corresponding affixes in verbal forms (the ergative and dimensional prefixes and the subject/patient affixes). When a sentence or clause features both a phrase marked with an adverbal postposition and a corresponding verbal affix, the verbal affix can be said to repeat or <u>resume</u> in the verbal complex information stated in the nominal part(s) of the sentence.

THE GENITIVE CASE (§161-168)

The Genitive Construction

The genitive postposition links two nouns to form a <u>genitive construction</u>, resulting in an expanded nominal chain which, like any other, may include the usual adjectival, pronominal or plural modifiers, and which must ultimately end with a case marker. Thus in a sense the genitive postposition can be said always to co-occur with another case marker – the only postposition that may ordinarily do so. The genitive postposition is therefore a different sort of syntactic element, but it is nevertheless conventionally referred to as a case marker.

All regular genitive constructions consist basically of three components: (1) a nomen regens or "ruling/governing noun"; (2) a nomen rectum or "ruled/governed noun"; (3) and the genitive postposition -ak 'of'.

The head nouns of both the <u>regens</u> and <u>rectum</u> may be modified by adjectives or other attributives, possessive or demonstrative pronouns, and plural markers – subject to certain restrictions in the ordering of elements. Returning to the discussion of the rank order of the nominal chain, the following represents the structure of a basic expanded nominal chain featuring a single genitive construction (cf. Thomsen §46):

The rectum (with its genitive marker) can be thought of as a kind of secondary adjectival modifier of the regens, standing between any primary adjectival element and any following possessive or demonstrative pronoun and/or personal plural marker. Study both the structure and the phonological and orthographic shapes of the following examples (deletion of the final /k/ of the genitive will be discussued below):

```
{šeš tur} + {lugal mah+ak} + ene + Ø > šeš tur lugal mah-a-ke<sub>4</sub>-ne
The young brothers of the lofty king
{šeš tur} + {lugal mah+zu+ak} + bi + ene + Ø > šeš tur lugal mah-za-bé-ne
Those young brothers of your lofty king
```

Multiple Genitive Constructions

A Sumerian nominal chain can feature a second or, less commonly, even a third embedded genitive construction, although a third genitive -ak is never graphically indicated. In such cases, one genitive construction becomes the new rectum of another construction, and the genitive postpositions accumulate at the end of the chain:

```
\begin{array}{l} regens + \{regens + rectum + ak\} + ak \\ regens + \{regens + \{regens + rectum + ak\} + ak + (ak)\} \end{array}
```

For example:

é dumu +ak+Ø

i é dumu

The house of the son

é dumu lugal+ak+ak+Ø

i é dumu lugal-la-ka

The house of the son of the king

é dumu lugal úri(m)^{ki}+ak+ak+ak+Ø

i é dumu lugal úri^{ki}-ma-ka

The house of the son of the king of Ur

A chain featuring a double or triple genitive construction could theoretically become quite complex if its components were extensively qualified, but in practice adjectival or pronominal qualification tends towards a minimum in such forms, presumably for the sake of clarity. If such qualification is desired, the language can make use of an anticipatory genitive construction (described below) to help break a long chain into more manageable subsections.

Form of the Genitive Postposition

The genitive postposition in its fullest form takes the shape /ak/. It is, however, subject to special phonological rules depending upon the elements which precede or follow it. More formally, it can be described as a morphophoneme //AK// with four phonemic realizations depending upon its phonological environment, that is, whether it is preceded or followed by a vowel (V), a consonant (C), or a zero morph – i.e. by a word-boundary (#) – which functions phonotactically like a consonant. It is pronounced as follows:

/ak/ in environment	C_V	é lugal+ak+a > é lugal-a-ka	In (-a) the king's house
/k/ in environment	VV	é dumu+ak+a > é dumu-ka	In the son's house
/a/ in environment	CC	é lugal+ak+šè > é lugal-a-šè	To (-šè) the king's house
	C#	é lugal+ak+Ø > é lugal-a	The king's house
/Ø/ in environment	VC	é dumu+ak+šè > é dumu-šè	To the son's house
	V#	é dumu+ak+Ø > é dumu	The son's house

Stated less formally, /a/ is retained when a consonant precedes, and /k/ is retained when a vowel follows.

There are a few exceptions to the above scheme. First, in the $V_{\#}$ environment, very rarely /a/ unexpectedly appears instead of /Ø/, probably to resolve a possible ambiguity. For example, using the above illustration é dumu-a might be written instead of é dumu. Second, in pre-Old Babylonian orthography the presence of a /k/ was apparently considered a sufficient sign of a genitive, and an otherwise needed /a/ is often not written, although it was possibly pronounced, e.g. é lugal-ka rather than é lugal-la-ka. In older texts, even a noun's Auslaut can fail to appear, for example ùnu-kam 'it is (-am) of the cattle herdsman' rather than expected ùnu-da-kam < $\{$ ùnu(d)+ak+am $\}$, as in Nik I 220 ii 4. In the earlier stages of this predominately logographic writing system often only the most significant elements were spelled out; the rest could be left for the native speaker to supply.

When a genitive directly follows a possessive pronoun, the vowels /u/ and /i/ of the sg. pronouns do not appear, and -ak thus behaves as it always does when following consonants. But following the final /e/ of the plural pronouns -ak behaves as expected:

```
Sg 1 -\hat{g}u_{10}+ak+\emptyset
                                             of my
                           > -\hat{g}\hat{a}
    2 -zu+ak+\emptyset
                                             of vour
                            > -za
    3p -(a)ni+ak+\emptyset
                           > -(a)-na
                                             of his, her
    3i -bi+ak+Ø
                                             of its, their (coll.)
                            > -ba
Pl 1 -me+ak+\emptyset
                           > -me
                                             of our
    2 -zunene+ak+\emptyset > -zu-ne-ne
                                             of your
    3p - (a)nene + ak + \emptyset > -(a)-ne-ne
                                             of their (pers.)
```

```
For example:

ká iri+ĝu<sub>10</sub>+ak+Ø

ká iri-ĝá

The gate of my city

ká iri-ĝá-šè

To (-šè) the gate of my city

é mah lugal+(a)nene+ak+Ø

é mah lugal-la-ne-ne

The lofty house of their king

é mah lugal-(a)nene+ak+a

in (-a) the lofty house of their king
```

Note that the possessive pronoun -bi 'its/their' and the demonstrative suffix -bi 'that' are the same element and so follow the same phonological rules. Thus $\{k\acute{a}(n)\ t\grave{u}r+bi+ak\} > k\acute{a}\ t\grave{u}r$ -ba can be translated either 'the gate of its/their pen' or 'the gate of that pen'.

Genitive and Locative Compared

When a locative case postposition -a is suffixed to a possessive pronoun, the /u/ and /i/ vowels of the singular pronouns are again deleted, and the resulting forms thus look PRECISELY THE SAME as the genitive forms when no other vocalic suffix follows which will cause the /k/ of the genitive to appear. The two paradigms differ, however, in the plural, where locative -a always appears while the /a/ of the genitive is always deleted. Compare the following possessive pronoun + locative paradigm with the preceding possessive + genitive paradigm:

	-ĝu ₁₀ +a -zu+a -ani+a -bi+a	> > > >	-ĝá -za -(a)-na -ba	in my in your in his, her in its, their (collective)
Pl 1	-me+a	>	-me-a	in our
2	-zunene+a	>	-zu-ne-ne-a	in your
3p	-anene+a	>	-(a)-ne-ne-a	in their (personal)

Thus the nominal chain é-za can represent either "of your house" {é+zu+ak} or "in your house" {é+zu+a}, and one must rely upon context to decide which meaning is appropriate. Compare a fuller form featuring both a genitive and a locative: é lugal-za-ka 'in the house of your king' < {é lugal+zu+ak+a} where the vocalic locative marker causes the /k/ of the genitive to be pronounced. Contrast, on the other hand, a chain such as é lugal-za-šè, which ends in the terminative case marker -šè 'towards'. Here again -za- can only be analyzed as pronoun plus genitive even though the final /k/ is not visible; a locative is impossible since only the genitive can be followed by another case marker. Thus analyze {é lugal+zu+ak+šè} 'to the house of your king'.

Irregular Genitive Patterns

There are four noteworthy uses of the genitive which do not conform to the strict REGENS + RECTUM + AK pattern:

1) ANTICIPATORY GENITIVE (§164). Here the rectum precedes the regens, and the regens is marked by a possessive suffix in agreement with the rectum:

```
lugal+ak \ di\hat{g}ir+(a)ni+\varnothing > lugal-la \ di\hat{g}ir-ra-ni of the king his god = the god of the king udu+ak lugal+bi+\varnothing > udu \ lugal-bi of the sheep its owner = the owner of the sheep
```

The anticipatory genitive is an EXTREMELY common Sumerian construction, used not only as a stylistic alternative to the ordinary genitive construction, but also to help simplify more complex nominal chains by breaking them into more manageable subsections. It is also a pattern that is REGULARLY missed by the beginner and so one which should be kept firmly in mind in the early stages of study.

- 2) GENITIVE WITHOUT REGENS (§167). Here the regens has been deleted and is merely understood: $\{\text{úri(m)}^{ki}+ak\} > \text{úri}^{ki}$ -ma 'he of Ur, the Urimite', standing for an underlying $<\text{dumu}> \text{úri}^{ki}$ -ma 'son/citizen of Ur' or $<\text{lú}> \text{úri}^{ki}$ -ma 'man of Ur'. Compare Old Sumerian DP 119 4:6 where previously listed personnel are summarized as Géme-dBa-ú-ka-me 'they are <personnel> of Geme-Ba'u(-k)'; many parallel texts actually write the expected lú. This sort of elliptical genitive construction is common in gentilics (terms referring to ethnic origin or national identity), as above, in names of occupations, and in connection with certain types of subordinate clauses which will be discussed later apropos of the nominalizing suffix -a and the syntax of relative clauses.
- 3) PREDICATIVE GENITIVE. Here a genitive without regens is used with a form of the copular verb "to be" to generate predicates of nominal sentences or clauses. (A nominal sentence is an "X = Y" sentence in which the subject is identified with a predicate noun, pronoun, or adjective, as in "Šulgi is king," "the king am I," or "the king is great.") This construction is especially common with independent pronouns but can also occur freely with nouns, e.g. é-bi šeš-gal-a-kam 'that house is the elder brother's'. The following independent pronoun paradigm features the 3rd sg. copular element /am/ "it is"; an extra written -a- vowel is common in the 1st and 2nd person singular forms:

The regens underlying such constructions can be thought of as a repeated subject deleted by a syntactic rule to avoid redundancy, for example:

```
kù-bi <kù> ĝá-a-kam that silver is <silver> of me = that silver is mine
lú-ne <lú> iri-ba-kam this man is <a man> of that city = this man is of that city
```

4) GENITIVE AS IMPLICIT AGENT (§166). A genitive can be used in several different contexts to imply an agent, as in older epithets of the form:

```
dumu tu(d)+a an+ak+Ø > dumu tu-da an-na child born of (the god) An = child born by An
```

Textual examples:

```
maš apin-lá è-a PN engar-kam

They are (-am) the lease-tax goats brought in of (i.e. by) PN the farmer
(Nik I 183 1:3-5 OS)

udu gu<sub>7</sub>-a PN kurušda-kam

They are sheep used of (i.e. by) PN the animal fattener
(Nik I 148 5:2-4 OS)

gù-dé-a lú é dù-a-ke<sub>4</sub>

By (-e) Gudea, the man of the built house (i.e. the one who built it)
(Gudea Cyl A 20:24 Ur III)
```

This older participial construction with an agent implied by a genitive often occurs in royal inscriptions in alternation with a much more common and more widely used pattern in which the agent is explicitly marked by the ergative postposition -e. This more productive second pattern, which will be mentioned again in the description of Sumerian relative clauses, is referred to as the Mesanepada Construction, after the name of an early king which illustrates it:

```
mes an+e pà(d)+a > mes an-né pà-da Youth chosen by An
```

Lastly a caution: The beginning student should keep in mind that that most proper names are actually short phrases, and many common divine and royal names are genitive constructions which are not always obvious from their usual citation forms, for example:

```
< dnin ĝir-su+ak
<sup>d</sup>nin-ĝír-su
                                                        Queen of (the city) Ĝirsu
<sup>d</sup>nin-hur-saĝ
                  < dnin hur-saĝ+ak
                                                        Queen of the Mountains
<sup>d</sup>nin-sún
                  < dnin sún+ak
                                                        Oueen of the Wild Cows
dinana
                  < dnin an+ak
                                                       Oueen of Heaven
<sup>d</sup>dumu-zi-abzu < <sup>d</sup>dumu-zi abzu+ak
                                                        Good Child of the Abzu
                  < ur <sup>d</sup>namma+ak
ur-<sup>d</sup>namma
                                                        'Dog' of (the goddess) Namma
```

When such genitive-based names are followed by vocalic grammatical markers, the /k/ of the inherent genitive naturally reappears, a common source of confusion the first few times it is encountered, for example:

> dnin-ĝír-su-ke4 ^dnin+ĝirsu+ak+e by (-e) Ningirsu(-k)

dumu ur-^dnamma+ak+ak+e > dumu ur-^dnamma-ka-ke₄ by the son of Ur-Namma(-k)

a-šà d nin+sún+ak+ak(+ak) > a-šà d nin-sún-na-ka of the field of Ninsuna(-k)

A similar confusion can also arise when one first encounters nouns with a /k/ Auslaut, i.e. stems that end with an amissible consonant /k/ which, like that of the genitive marker, is regularly deleted when no vowel follows, for example:

énsi(k)+Ø > ensí the governor (subject)

dumu énsi(k)+ak+e > dumu énsi-ka-ke₄ by the son of the governor

ka(k)+a/ak> ka-ka in (-a) or of (-ak) the mouth

In the second phrase, the presence of two /k/ sounds may, at first glance, suggest the presence of two genitive markers, an incorrect analysis since only one complete genitive construction (regens + rectum + ak) can be accounted for. The last word could be also be understood as a reduplicated noun.

THE EQUATIVE CASE (§214ff.)

Like the genitive, the equative case usually indicates a relationship between nouns or pronouns. Also like the genitive, it is marked only by a nominal postposition; it has no corresponding infix in the verbal chain. It has the basic meaning "like, as," but in subordinate relative clauses (discussed in a later lesson) it can take on temporal adverbial meanings such as "just as," "at the same time as," "as soon as," "during," "while." It is also seen in a variety of standard adverbial expressions such as ur₅-gin₇ 'like this, thus', húl-la-gin₇ 'happily', or a-na-gin₇ 'like what, how'.

The equative is most often written with the sign GIM, traditionally read simply -gim. There is good evidence, however, that it is more properly to be read -gin₇ and some indication as well that the final /n/ could be dropped. Thus the sign GIM has also been read in the past -gi₁₈ or -ge₁₈ by a few earlier scholars. The problem of determining the actual pronunciation arises owing to the existence of a number of conflicting syllabic writings, including: -gi-im, -gi-in, -geen, -gi/ge, -ki/ke, or -gé/ke₄ (the last three instances represent single signs with two possible readings). For a nice discussion of all these forms see now D. Frayne, Royal Inscriptions of Mesopotamia, Early Periods 1 (2008) 95. The pronunciation may have varied with time and place, and so we will merely follow the current convention of reading the equative as -gin₇ and leave the question of its precise pronunciation in different times and places open. Examples:

like her mother ama-ni-gin₇

dumu-saĝ lugal-la-gin7 like the first-born son of the king

a-ba za-e-gin₇ who (is) like you?

REMEMBER: A GENITIVE CONSTRUCTION = REGENS + RECTUM + AK!

THE /a/ OF THE GENITIVE POSTPOSITION IS LIABLE TO DELETION,

BUT THE LOCATIVE POSTPOSITION -a IS NEVER DELETED!

THE ANTICIPATORY GENITIVE IS THE ONE OF COMMONEST AND MOST COMMONLY OVERLOOKED SYNTACTIC PATTERNS OF SUMERIAN!

THE COPULA

There are two verbs "to be" in Sumerian. The first is the proper verbal root \hat{g} ál 'to be present, to exist'. The second is a syntactic element with the form /me/ or /m/ whose basic function is copular, that is, which marks predicates of nonverbal or <u>nominal sentences</u>. It indicates an identity between two substantives or between a substantive and an adjective, linking them as subject and predicate, as, for example, "I am the king" or "the king is mighty" or most generally "X = Y." Since it only indicates an identity, it conveys no notion of tense, and can be translated "is/are," "was/were," or "will be" according to context. The copula occurs most often as an <u>enclitic</u>, an unstressed element which must always be suffixed to another word, properly the second (predicate) part of a nominal sentence. In simple contexts a copula is optional and often omitted.

THE ENCLITIC COPULA (§541-546; §108)

The enclitic copula is conjugated, and its paradigm is that of the verbal subject (to be discussed in detail later). Note that in this paradigm the 3rd person sg. serves for both personal and impersonal/collective subjects, while the 3rd person plural is reserved for personal subjects only.

```
Sg 1
         me + (e)n
                        > -me-en
                                             I am
         me + (e)n
                        > -me-en
                                             vou are
   3p/i m + \emptyset
                                             he/she/it is; they are
                                                                        (-am<sub>6</sub> in OS)
                        > -(V)m/-am
P1 1
         me + (e)nden > -me-en-dè-en
                                             we are
         me + (e)nzen > -me-en-zé-en
                                             you are
   3p
         me + (e)š
                        > -me-eš
                                             they (personal) are
```

An old question in the description of the copula forms is whether the /e/ vowel which appears in all of the non-3rd sg. pronominal elements should be analyzed as belonging to a copular stem /me/, or belonging to the pronominal elements, i.e. -en, -eš, etc. If the former, then the /e/ of the stem /me/ is deleted in the 3rd sg. form. If the latter, then the copular stem is just /m/ in all forms. In view of the variant /me/ which can appear in finite copulas (see below), the easiest solution is to posit two allomorphs, /m/ and /me/, which occur in different contexts. This is the position taken here. In keeping with the general hypothesis in this grammar that meaning is primarily carried by consonantal elements in the systems of Sumerian grammatical affixes, I would maintain that here, as is also the case when these subject pronouns occur in finite verbal forms, the /e/ is (historically) an epenthetic or helping vowel which is placed between consonantal elements to render them pronounceable, and that the verbal subject paradigm is then formally just: -(e)n, -(e)n, -Ø, -(e)nden, -(e)nzen, -(e)š. Note that the symbol Ø here again indicates a zero morph, i.e the 3rd sg. verbal subject marker has no overt representation.

When a word or grammatical suffix preceding the 3rd sg. copula also ends in a consonant, an epenthetic vowel /a/ serves to separate that consonant and the the following copular stem /m/. The resulting form is written -am(A.AN) (or - $am_6(AN)$) before the time of Gudea), e.g. lugal-am 'he is king'. The syllable /am/ could also be joined with a preceding consonant in a closed-syllable sign Cam, e.g. lugal-lam (the doubling or "picking up" of the /l/ in the final sign is only an orthographic convention), though such a form is more often seen written with two syllables: lugal-la-am. When the preceding consonant is the /k/ of the genitive postposition -ak, the /k/ and the copula are usually written together using the KAM sign: {ak+m} > -a-kam. For example, am it is the house of the king'.

When a vowel precedes the 3rd sg. copula there is no need to insert an epenthetic vowel /a/ before the /m/, as in dumuzu-um 'he is your son' or ama-ni-im 'she is his mother', but in later texts one occasionally sees a hypercorrect -àm written here as well. At least some later scribes apparently lost sight of the phonotactic rules and came to regard -àm as the mark of the 3rd sg. copula in all contexts.

In Old Sumerian the 3rd pl. form is usually written just -me, rather than -me-eš, although the full form is known, e.g. sagi-me-eš 'they are cupbearers' (CT 50, 36 7:8). The writing -me-éš (or -me-eš) begins to appear regularly in the later Ur III period. It is uncertain whether this absence of the /š/ is an orthographic or a phonological phenomenon.

In Gudea and other Ur III texts, where final /n/ is not always written in a variety of contexts, the 1st or 2nd sg. copula can be written as just -me rather than -me-en. See textual examples at the bottom of this page.

Study the following nominal sentences:

ĝá-e lugal-me-en I (emphasized) am the king

za-e ir₁₁-me-en You (emphasized) are a slave

ur-^dnamma lugal-àm Ur-Namma is king

nin-bi ama-ni-im That lady is his mother

ad-da-ni šeš-zu-um His father is your brother

lú tur-e-ne šeš-me-eš

The young men are brothers

é-zu gal-la-àm Your house is big

munus-bi ama lugal-a-kam

That woman is the mother of the king

é-bi ĝá-a-kam That house is mine (lit. of me)

In the preceding simple illustrations the subjects and predicates are not marked for case (alternately, all might be said to stand in the unmarked absolutive case). Since copular constructions are non-verbal, they may ordinarily feature no adverbal case markers, but predicates can indeed be marked for the adnominal equative case, e.g. lú-bi lugal-gin₇-nam {lugal+gin₇+am} 'that man is like a king'.

When the subject of a copular sentence or clause is an independent pronoun, it is regularly deleted, though it can be retained for emphasis: <\(\hat{g}\hat{a}-e>\) lugal-me-en 'I am king'. On the other hand, the copula can be combined with a pronominal subject to provide a particularly strong emphasis: \(\hat{g}\hat{a}-e-me-en \) lugal-me-en 'I am I, I am the king!' = 'It is indeed I who am the king!'

Some textual examples:

ADDITIONAL FUNCTIONS OF THE COPULA

The copula frequently serves to mark off appositions or parenthetical insertions within sentences, as in ^dšul-gi-re lugalàm é-gal in-dù 'Shulgi(r), (he) being the king, built the palace'.

It can represent strong emphasis in the view of A. Falkenstein (see discussion and references in NSGU II pp. 36-37 ad No. 22:11). A possible example of such a use is:

Occurrences of the copula at the end of sentences or clauses probably likewise mark off parenthetical or emphasized information, but this usage is usually difficult to understand and is thus often disregarded in translation.

W. Heimpel studied the use of the copula to mark a comparison, varying with the equative postposition $-gin_7$ 'like' (Studia Pohl Series Minor 2 (1968) 33-36). For the copula as such a similative particle compare a Sumerian-Akkadian bilingual lexical entry where Sum. -am = Akk. ki-ma 'like' (Proto-Aa 8:2, MSL 14, 89).

Some examples for study:

```
udu ab-ba-ĝá 180-àm ù gáb-ús-bi
The sheep of my father, they being 180, and their herdsman
(NSGU 138:8 Ur III)
PN-àm ma-an-šúm bí-in-du<sub>11</sub>
"It was PN, he (-n-) gave it to me (ma-)," he declared regarding this (bí-)
(NSGU 127:4-5)
PN géme PN<sub>2</sub>-kam, é-šu-šúm-ma ì-zàh-àm, buru<sub>14</sub>-ka PN<sub>3</sub>-e in-dab<sub>5</sub>
PN – being a slave of PN<sub>2</sub> – she having fled to the Ešušuma –
during the (time of) harvest was caught by PN<sub>3</sub>
(NSGU 214:29-33)
u4 inim lugal nu-ù-da-šub-ba-àm ba-sa<sub>10</sub>-a
                                                                                            \{nu+n+da+šub+Ø+a+am\}
When – a king's word not having been laid down concerning him – he was sold
(NSGU 71:12-13)
PN PN<sub>2</sub>-[da] nam-dam-šè-àm da-ga-na nu-ù-nú-a
                                                                                                     \{nu+n+n\acute{u}+Ø+a\}
That PN had not lain in (-n-) the bedroom with PN<sub>2</sub> – as in a married state
(NSGU 22:9-11)
gù-dé-a šà <sup>d</sup>nin-ĝír-su-ka u<sub>4</sub>-dam mu-na-è
                                                                                                             {ud+am}
For Gudea the meaning (lit. heart) of Ninĝirsu came forth like daylight
(Gudea Cyl A 12:18-19 Ur III)
muš mah-àm a-e im-diri-ga-àm
It was like a great snake, one that came floating in (-m-) on the water
(Gudea Cyl A 15:26)
```

THE FINITE COPULA (§536-540)

The copula can also function as a quasi-finite verb, rather than an enclitic, with the addition of a verbal prefix, often a preformative such as the precative hé- 'may, let' or the negative nu- 'not'. Common forms include:

hé-em or hé-àm may he/she/it be! {hé+m+Ø} (often abbreviated as hé-a or hé)

nu-um or nu-àm he/she/it is not $\{\text{nu+m+}\emptyset\}$ (often abbreviated as nu)

nu-me-eš they are not {nu+me+š}

Example:

kù-bi hé-a še-bi hé-a, ki PN-ta šu la-ba-an-ti-a {hé+a(m)+Ø} Whether it be that silver or that barley – that he had not received it from (the place of) PN ... (NSGU 208:26-28 Ur III)

The abbreviated negated finite copula has been described instead as a negative enclitic copula and linked in transliteration to the preceding head noun, e.g. saĝ-nu 'he is not a slave' (e.g. Steinkeller, Third-Millennium Texts [1992] 30, Edzard 2003 § 12.11.2.1) This position is not taken by this grammar or, for example, by J. Bauer, who derives copular nu < nu-um, see Archiv für Orientforschung 40/41 [1993/94] 95). The /m/ of the copula is occasionally deleted in other contexts, e.g. possibly árad lú-še lugal-zu-ù 'Slave, is that man your king?' (Gilgameš and Agga 91 OB).

Copular subordinate clauses, formed by suffixation of the nominalizing (relativizing) particle -a, are often used to convey the notion "although, even though." In this context, the stem allomorph /me/ appears in all forms, and the neutral vocalic prefix i- is often employed to render the form finite when no other verbal prefix is present:

á nun ĝal zà-še-ni-šè húl-la ì-me-en-na-ke₄-eš $\{i+me+(e)n+a+ak+eš\}$

Because I was one showing great strength, delighting over his strong thighs,

(Šulgi A 27 OB) (elliptical <nam> ...-a-ak-eš)

ur-saĝ ug₅-ga ì-me-ša-ke₄-éš $\{i+me+(e) š+a+ak+e š\}$

Because they were slain heros (Gudea Cyl A 26:15)

lú igi-na sukkal nu-me-a

The person in front of her, though he was not a minister,

(Inana's Descent 291 OB)

kur-gal ^den-líl-da nu-me-a Without Great Mountain Enlil (Enlil Hymn A 109 OB)

ùĝ-bi šika ku5-da nu-me-a bar-ba ba-e-si

Its people, though they were not broken potsherds, filled its outskirts

(Lamentation over Ur 211 OB) (-e- resumes -a)

é-ki saĝa e-me-a $\{i+me+\emptyset+a\}$

Eki, though he used to be the temple administrator, (CT 50, 26 3:5-6 OS with Lagaš vowel harmony)

 $\{nu+me+Ø+a\}$

One occasionally encounters finite copulas with odd shapes, including forms in which a finite copular stem is conjugated using an added enclitic copular suffix, e.g.

pi-lu₅-da u₄-bi-ta e-me-am₆ It was as the custom was in former times (Ukg 4 7:26-28 OS, a variant has instead e-me-a) $\{i+me+am+\emptyset\}$

sug hé-me-àm

Truly it had become like a swamp (Ur-Namma 27 1:10 Ur III)

¹PN dumu PN₂ gudu₄ – nu-mu-kuš ì-me-àm – PN₃ dumu PN₄ gudu₄-ke₄ ba-an-tuk PN, daughter of PN₂ the gudu₄-priest – she being a widow – was married by PN₃ son of PN₄ the gudu₄-priest (NSGU 6:2-4 Ur III)

šeš-ĝu₁₀ ^dnin-ĝír-su ga-nam-me-àm

 $\{gana+me+(a)m+\emptyset\}$

Hey, that was in fact my brother Ninĝirsu!

(Gudea Cyl A 5:17 Ur III) (ga-na is an interjection here employed as a prefix)

šu al-la nu-ù-da-me-a-aš

 $\{nu+n+da+me+Ø+a+še\}$

Since the hand of (the official) Alla was not (involved) with him

(NSGU 43:4 Ur III) (here the copula is construed as a completely regular finite verb)

THE PREFORMATIVE nu- AS A FINITE VERB

nu-'not', which as a preformative normally negates verbal forms, is occasionally employed as a finite verbal root with either copular or existential meaning, often in constructions featuring a minimal verbal prefix used primarily to make the form finite. A common form is V+nu+ \emptyset > in-nu "it was not', with which compare the OB bilingual grammatical text entry in-nu = Akk. \acute{u} -la 'not (being)' (MSL 4, 164:24). See other examples with prefixes other than \grave{i} - in ETCSL and Thomsen §364.

lú-še lugal- $\hat{g}u_{10}$ in-nu. lú-še lugal- $\hat{g}u_{10}$ hé-me-a That man over there was not my king. Indeed, were that man my king ... (Gilgameš and Aga 70-71 OB)

kur dilmun^{ki} [(...)] x in-nu The land of Dilmun [...] did not exist (Emerkar and the Lord of Aratta 12 OB)

kù ad-da ì-nu If there be no silver of (i.e. belonging to) Adda (OSP 2, 47 rev. 2 OAkk)

REMEMBER:

A COPULA NORMALLY LINKS THE TWO HALVES OF A NOMINAL "X = Y" SENTENCE.

A COPULA MAY ALSO INDICATE AN EMPHASIS OR COMPARISON OR SET OFF A PARENTHETICAL INSERTION.

THE BASIC VERBAL SUBJECT PARADIGM IS -(e)n, -(e)n, -Ø, -(e)nden, -(e)nzen, -(e)š.

ADVERBS AND NUMERALS

ADVERBS (§84-89)

Adverbs of Manner

Simplex adverbs such as English "fast" or "well" are fairly rare in Sumerian. There are only a limited number of bare adjectival (verbal) roots which can function with adverbial force, e.g. mah 'loftily', gal 'greatly', tur '(in a) small (way)', or hul 'evilly'. These non-marked adverbs are enumerated by J. Krecher in ASJ 9 (1987) 74 and Attinger, Eléments de linguistique sumérien (1993) §105d. Otherwise, Sumerian renders adverbial ideas mainly by means of adverbial expressions ending in case markers. The commonest of these are short phrases consisting usually of only a bare adjectival or verbal root, or a verbal root with a nominalizing (relativizing) -a suffix, followed most often by:

(a) the locative-terminative -e 'by'. Cf. K. Focke, ZA 98 (1998) 351 n. 735 "avec sens adverbial." See also the regular use of -e with infinitives discussed in the final lesson, and note that -e often elides to a previous vowel.

húl-la-e happily < húl to be happy

húl-húl-e very happily < húl

(b) the terminative -šè (or -éš/eš/aš/iš) 'to, as'. Attinger Eléments §105 now calls this the "adverbiative" marker eš(e), distinct from the terminative marker /še/. See further V. Meyer-Lauvin in AV Attinger (2012) 215ff.

gal-le-eš greatly, well < gal big, great

sud-rá-šè distantly < sudr to be far away, distant

ul-šè forever < ul ancient

(c) the sequence -bi-šè (3rd sg. pronoun + terminative)

gal-bi-šè greatly, well < gal big, great téš-bi-šè together < téš each, single

(d) -bi This last may be a shortened form of -bi-šè, but it is more likely that the sign BI should be read instead as -bé, i.e. the suffix -bi plus a locative-terminative case marker -e which provides the adverbial force in place of the terminative

bíl-la-bé feverishly < bil to be hot búr-ra-bé openly < búr to free, loosen diri-bé surpassingly < diri(g) to surpass < gibil to be new gibil-bé newly húl-la-bé happily < húl to be happy lipiš-bé angrily < lipiš anger

téš-bé all of them < téš single, unity, oneness

ul₄-la-bé < ul₄ to hurry quickly

That the suffix -bi is merely the 3rd sg. impersonal possessive pronoun -bi used with a less evident deictic meaning is suggested by the somewhat rarer adverbial expressions formed by means of other possessive pronouns, for example:

he alone, by himself dili-né dili-bé they alone (impersonal)

dili-zu-šè by yourself diri-zu-šè more than you he being well silim-ma-né

{silim+a+(a)ni+e} the two of them, both of them min-na-ne-ne

{min+(a)nene+e}

min-na-bé both of them (impersonal)

húl-la-né/na he being happy, he joyfully (cf. Yuhong, NABU 1990/3, 86)

Temporal, Causal, and Localizing Adverbial Expressions (§184; 101; 205)

These are ordinary nominal chains ending in dimensional case postpositions, i.e. the locative -a 'in', ablative -ta 'from', terminative -šè 'to', or locative-terminative -e 'by, at'. In this case the suffix -bi is more obviously deictic in meaning, and other possessive pronouns are regularly employed. Common examples include:

ĝi ₆ -a iti-da u ₄ -ba u ₄ -bi-ta	in/during the night in a month, monthly on that day, at that time, then since that time, afterwards	{itid+a} {ud+bi+a}
u ₄ -da u ₄ -dè	in/on the day, today; when, if by day	{ud+a} {ud+e}
bar-zu-šè mu-bi-šè nam-bi-šè	because of you, for your sake because of that, instead of that, about that for the sake of that, on the occasion of that	
igi-na igi-bé igi-šè gaba-bi-šè	in front of him at its front, at the fore to the front, to the fore, before facing, opposing, confronting it	
eger-bé eger-bi-ta eger-(r)a	behind that, after that (locally or temporally) since then, thereafter afterwards	
ki-a ki-ba ki-bi-šè ki-ta ki-ĝá	in place, here in this place, here to that place, thither from the place, thence in/at my place, with me	{ki+ĝu ₁₀ +a}
šà-ba šà-bi-ta	in the middle of it, inside it out of it, from it	
ugu-ba zà-ba	on top of it at it's edge, beside it	

See the lesson on relative clauses for similarly formed adverbial subordinate clauses, and note the independent subordinating conjunctions tukum-bi 'if' and en-na 'until'.

Interrogative Expressions

A list of adverbial expressions based on interrogative pronouns such as a-na-šè 'why?' will be found in the lesson dealing with pronouns and demonstratives.

Sentence Adverbs

The origins of terms which Thomsen calls Modal Adverbs (§149) are uncertain, and the following should be learned as independent words:

ì-ne-éš now (variant: e-ne-éš)

a-da-al/lam now

i-gi₄-in-zu as if, as though (B. Alster in Fs. Georg Molin [1983] 122f. understands

this as 'know (this) for sure!' \leq *i-gi(n)-zu)

NUMERALS (§139-142)

Cardinal Numbers

1 aš, diš, (dili) 60 ĝéš(d) (wr. DIŠ) 2 min, mìn 600 ĝeš(d)u or ĝeš'u (wr. U+DIŠ, or DIŠxU in Old Sumerian)

3 eš₅

4 limmu, límmu 3600 šái

5 ía 36000 šár'u (wr. ŠÁRx(UxKASKAL))

6 àš

7 inim, umun₅

8 ussu 9 ilimmu

10 u

Ordinal Numbers

Ordinals are formed in the first instance by use of the genitive /ak/ followed by the copula /am/, e.g. u₄ 2-kam 'second day'. This construction can be extended by the addition of a second genitive /ak/ often with a following locative –a:

2-kam-ma the second (one)
2-kam-ma-ka for the second time
u₄ 2-kam-ma-ka on the second day

For a clear and up-to-date description of numerals, including important data from the Ebla texts and discussion of other numerical constructions, see Edzard 2003, pp. 61-67.

Numerical Expressions

Cardinal numbers can be combined with possessive pronouns and case markers to generate adverbial expressions, e.g.

aš-a-né, aša-né alone, by himself $\{aš+(a)ni+e\}$ min-na-ne-ne the two of them $\{min+(a)nene+\emptyset\}$

dili-bé, dili-bi-šè alone, by itself/themselves

The adjectives didli(DILI.DILI) 'several, various, miscellaneous' and hi-a 'mixed, assorted' are often found qualifying nouns especially in administrative texts, e.g.

lú didli-ne several men

lú-igi-níĝin didli miscellaneous inspection personnel

anše-hi-a assorted donkeys (of different ages or sexes)

Multiplication is indicated by use of the term a-rá 'time(s)', e.g.

mu ^dnanna kar-zi-da a-rá 2-kam-aš é-a-na ba-an-ku₄ {2+ak+am+šè} Year Nanna of the Fine Ouay entered his temple for the second time

(Formula for the 36th regnal year of king Šulgi, Ur III) (-n- resumes -a)

REMEMBER: ADVERBS ARE USUALLY SHORT NOMINAL CHAINS ENDING IN

CASE MARKERS, MOST OFTEN -e, -eš, -šè, -bé OR -bi-šè

THE ADVERBAL CASES

ABSOLUTIVE -Ø (§38-42; 169)

The absolutive case is unmarked, or more theoretically is marked by a zero morph, symbolized as -Ø. This is the case of the sentence subject or patient (defined in the lesson introducing the verb).

ERGATIVE & LOCATIVE-TERMINATIVE -e (§170-174)

As Thomsen observed (§170), one may regard the postposition -e as the mark of "one case with two functions, whose relationship, however, is not entirely clear." Similarly, G. Steiner (ASJ 12 [1990] 145 n. 39) speaks of ergative and adessive -e, morphologically identical but functionally differentiated. G. Cunningham (AV J. Black [2010] 47) states: "The ergative case marker can be analyzed as a further grammaticalization, the directive (also referred to as the locative-terminative) being lexically bleached from a meaning such as 'in(to) contact with' to performing the more abstract function of marking the subject of a transitive verb." Jagersma 2010 §7.3 states that the ergative "is not only homonymous but also cognate with the directive case marker." However one wishes to phrase it, this is essentially the position taken in this grammar, and only if their underlying (or historical) identity is understood can we then feel free to speak of the ergative and the locative-terminative as if they were two separate cases. Compare the two quite different functions of the ablative-instrumental case (below). Most scholars have preferred to treat them as distinctly different homophonous cases, even if they possibly split off from a single case at some time in the past.

As the mark of the ergative case, -e refers to the agent, the doer or causer of a verbal event, "by" whom or "because" of which the event takes place. Referred to as the agentive in older literature, scholars now call this case the ergative, following modern linguistic practice for languages like Sumerian whose subject/object marking system is primarily ergative/absolutive in character, rather than the more familiar nominative/accusative orientation which is basic to our Indo-European languages.

As the mark of the locative-terminative case, -e refers to a locality or an object 'by, next to, at' or 'on, upon, onto, over' which the event takes place. This sense can be quite general, and it is sometimes helpful to translate the locative-terminative first as 'with respect to' or 'regarding', and only then to attempt to define the directional or locational idea more precisely with the help of the context. Some scholars have referred to this case as the allative (early Jacobsen), adessive (Steiner, later Jacobsen, Attinger), or directive (Edzard, Krecher, Jagersma, Zólyomi). It combines functions of allative ("to, onto"), adessive ("near, at, by"), locative ("on") and terminative ("toward, to the end point") cases, and so to avoid limiting the range of meaning the less specific traditional term locative-terminative is retained here.

The locative-terminative also has a number of more specialized uses. Most importantly, it marks an otherwise dative object when that object is an impersonal noun: lugal-ra 'to the king' but é-e 'to the house'. Conversely, it will be seen later that a dative is used instead of an ergative to mark a second personal agent in a causative sentence. Thus, there is an intimate syntactic connection between dative and ergative/locative-terminative rection, one whose full implications are only now becoming better understood.

The locative-terminative is often used to form adverbial expressions (a use shared with terminative - \dot{s} e, see below). For example: húl-la-e 'happily', té \dot{s} -e 'all together, as one', u_4 -dè 'by day', ul_4 - ul_4 -la-e 'hurriedly', ur_5 -re 'in this fashion, thus'.

The locative-terminative is the case normally found with the so-called infinitive. It serves either to link the infinitive as a kind of indirect object with the main verb of the sentence, or to produce a more general kind of adverbial clause. For examples see the final lesson on participles and infinitives. The locative-terminative can function as a kind of weak demonstrative or determining element. In this use it is probably related to the near-dexis demonstrative suffix -e. See the lesson dealing with demonstrative pronouns. This is probably also the function which has sometimes been described as *casus pendens* -e (Latin 'hanging case', i.e. a case without a direct syntactic connection with a verb) or even vocative -e, in which the marker serves to anticipate a following specification or to topicalize or focus attention upon the marked noun (or pronoun): lugal-e 'with respect to the king', 'as for the king', 'the king in question'. For

example: ^den-ki-ke₄ ki-tuš ki áĝ-ĝá-ni mu-na-dù 'And as for the god Enki, his beloved residence I built for him' (RIME 4.02.08.05:11-12). See further P. Attinger, Eléments de linguistique sumérienne (1993) §112a and C. Woods, Acta Sumerologica 22 (2000) 322f.

The locative-terminative occurs in distributive phrases especially in conjunction with the ablative-instrumental post-position -ta, e.g. ĝuruš-e 10 sìla-ta '(rations) per/for (-e) a worker 10 quarts each (-ta)'. Finally, like the terminative (see below) it can also, rarely, mark the second member of a comparison with impersonal nouns (the personal dative serves this function with personal nouns and pronouns): é-bi é-gal lugal-a-ke₄ gal-àm 'that temple is bigger than (i.e. big with respect to) the king's palace'.

-e often does not appear in writing when preceded by a vowel, especially another /e/, but exceptions are not uncommon, especially in later texts where older phonotactic rules are no longer being consistently followed. -e can appear as -a after a preceding /a/ in Ur III and earlier texts, and as -ù (or -u₈) after an /u/, especially in OB, as in the OB writing $|\dot{u}+e>|\dot{u}-\dot{u}|$ by the man'. See Thomsen's discussion and examples at §172. One might speculate that -e, instead of completely disappearing after another vowel, regularly assimilates to that preceding vowel and then appears in speech as lengthening of the vowel, although the lengthening is not normally indicated in writing. Compare perhaps the phenomenon of the usual OB writing of the infinitive dù-ù-dè 'to build' with its standard Old Sumerian equivalent dù-dè, both representing underlying $\{d\dot{u}+e+d+e\}$.

Contra Thomsen and some others, here we will follow the practice of writing the 3rd person sg. possessive pronouns plus hidden locative-terminative sequences {(a)ni+e} and {bi+e} as -(a-)né and -bé respectively rather than -(a)ni and -bi. Similarly, we will write the plural sequences {(a)ni+ene} and {bi+ene} as -(a-)né-ne and -bé-ne.

DATIVE -ra (§175-179)

The dative case can only be used with personal nouns or pronouns. Impersonal objects occurring with verbs that normally take a dative object are marked instead with a locative-terminative -e. The rule is not absolute, however, at least for personal nouns, which occasionally show an -e instead of expected -ra, e.g. ir₁₁ géme ù dumu-níta dumu-munus-ni a-na-ha-né-e ba-na-gi-in 'The slave, the slave woman, and his son and daughter were certified (as belonging) to Anahani' (RTC 290:11-12 Ur III). The -e vs. -ra contrast can be neatly demonstrated by a pair of common Ur III bureaucratic expressions, a qualification of sheep (e.g. ASJ 4, 132:5) and an occupation:

gud-e ús-sa (sheep) that follow the oxen lugal-ra ús-sa (men) that follow the king

The usual citation form of the dative is -ra, the form it takes after consonants (including amissible Auslauts and the genitive -ak even when the Auslaut or /k/ is not graphically visible). When it follows a vowel, after the possessive suffixes in particular, it may also appear only as -Vr. In texts from periods earlier than the first half of the Ur III Dynasty -Vr is frequently omitted after a vowel and always in Pre-Sargonic (OS) texts at least in writing, and the presence of a dative is then orthographically indicated only by a dative dimensional prefix in the verbal chain. For example, compare the following two Pre-Sargonic Lagaš passages (from VAT 4718 and DP 425 respectively):

en-ig-gal nu-bànda ú-ú agrig-ra e-na-šid {agrig+ra} E. the overseer put it to the account of U. the steward

An OS example of -ra following an amissible consonant occurs in DP 59 rev. 7:

maš-da-ri-a en-èn-tar-zi-ra mu-na-de₆ {en+entar+zi(d)+ra} The taxes were brought to (king) Enentarzi

In later stages of the language the old phonotactic rules were often dispensed with and -ra could be employed in all contexts. Thus the phrases {lugal+ra} 'for the king' and {dumu lugal+ak+ra} 'for the son of the king' were always written lugal-ra and dumu lugal-la-ra, while {lugal+ani+ra} 'for his king' could be written lugal-la-ni, lugal-la-ni-ir, or lugal-la-ni-ra depending upon the conventions of the period (or habits of the scribe).

Perhaps the most common use of the dative case is the so-called ethical or benefactive dative, doing something "for the benefit of" someone, and in this sense it can appear with most verbs, but in particular with verbs of giving such as:

šúm to give to

ba to allot, apportion, present to

With certain kinds of verbs, however, the dative is used (with personal nouns or pronouns only) to convey directional or locational ideas, for example, verbs of:

Motion towards: du/ĝen to come, go to (imperfective/perfective stems)

ku₄(r) to enter, go in to te(ĝ) to go up to, approach gurum to bend, bow to

Position before: ĝál to be there, be present before

gub to stand before

Emotion: sa₆ to be good, pleasing to

gig to be painful, hurtful to

ki(g) áĝ to love (lit. 'to mete out love to', a compound verb)

Like the locative-terminative with impersonal nouns, personal dative -ra can mark the second member of a comparison with personal nouns or pronouns, e.g.

diĝir ir₉-ra diĝir-re-e-ne-er rib-ba Mighty god, more outstanding than (all) the gods (Ibbi-Suen B A 38 OB) {diĝir+ene+ra}

{danuna(-k)+ene+ra}

^dA-nun-na-ke₄-ne za-e šu-mu-un-ne-íl-en Thus you were lifted up higher than the Anunna-gods

(Išme-Dagan X 18 OB)

lú-ne-er an-diri = $eli \ ann \hat{i} m \ rabi$

He is greater than this one

(OBGT I 332, an OB bilingual grammatical text) (-n- resumes -ra)

Occasionally, especially in Ur III texts, -ra, as the quintessential *personal* oblique case marker, replaces other expected postpositions, as in the following legal passage:

1 2/3 ma-na 1/2 gín kù-babbar PN-e PN₂-ra in-da-tuku-a-ke₄-eš Because PN had (a debt of) 1 2/3 mina 1/2 shekels silver against PN₂ NSGU 117:2-5 (Ur III) (here -ra replaces expected comitative -da)

Finally, it will be seen (p. 89) that the dative can mark a second (instrumental) agent.

LOCATIVE -a (§180-186)

The locative postposition -a generally has the meaning 'in', but it may also be freely translated 'into, on, among', or the like depending upon context. Temporally it can signify 'on (a certain day)' or 'at/in/during (a certain time)'. For example, $\{u_4+bi+a\} > u_4-ba$ 'in that day' = 'at that time, then' or uzud gúrum-ma šid-da 'goats accounted for during (the time of) the inspection'. The locative -a is a stable vowel. Unlike the /a/ of genitive -ak it is apparently never elided to a preceding vowel (although nominalizing -a followed by locative -a is normally written as a single /a/ in later verb forms). This fact has led several current scholars to propose that the locative actually features some initial consonantal sound, probably a glottal stop /2a/ (Jagersma 2010, following J. Krecher), which prevents elision to a preceding vowel.

Functioning as a "locative of material" -a can indicate the substance from or with which something is made:

```
é kù-ga i-ni-in-dù <sup>na4</sup>za-gìn-na i-ni-in-gùn

He built the temple with silver, he colored it with lapis lazuli

(Enki's Journey 7 OB) (-ni- resumes –a)

ĝéštu-ĝu<sub>10</sub> níĝ galam-ma sù-ga-àm

My mind is filled with clever things

(Šulgi Hymn B 54)
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In Ur III texts and personal names locative -a occasionally takes the place of dative -ra, e.g. ^dnanna-a in-da₅-kúr-a 'the one who has become hostile to Nanna' RIME 3/2.1.1.28, 20f. See Thomsen §181, Limet, L'Anthroponymie 87 + note 1, Steinkeller, Sale Documents, p. 15.

Like the terminative or locative-terminative, -a can mark the second member of a comparison:

```
me-bi me gal-gal me-me-a diri-ga
Its divine power is a very great divine power, surpassing all divine powers
(Gudea, Cyl A ix 12 Ur III)
èš nibru<sup>ki</sup> èš abzu-a ab-diri
Shrine Nippur: the shrine surpassed the Abzu
(Išme-Dagan C 1 OB) (-b- resumes -a)
```

COMITATIVE -da (§188-194)

The postposition -da is assumed to have been derived from the noun da 'side' through the linguistic process called grammaticalization. Its meaning is '(together) with, therewith, beside, alongside', and with such general senses it can occur with many different types of verbs. It also occurs regularly to mark indirect objects with, for example:

Verbs of mutual or reciprocal activity:

```
sá to be equal with, measure up to, rival du_{14} mú to quarrel with (lit. incite a quarrel with) a-da-man du_{11} to compete, dispute with (lit. do a disputing with) g\acute{u} lá to embrace (lit. to hang the neck with)
```

Certain verbs of emotion:

húl	to be happy with, rejoice at
saĝ-ki gíd	to frown at (lit. pull the forehead at)
ní te/tuku	to be or become afraid of, fear
su zi	to get (fearful) gooseflesh at

The comitative can express simple conjunction. Often combined with the suffix -bi it can link two nouns in a nominal phrase, and so some refer to the "conjunction" -bi-da 'and'. (The free-standing conjunction ù 'and', by contrast, is a loan from Akkadian used also to link clauses.) The sequence -bi-da is frequently shortened to -bi in this use, and so one must keep in mind that a suffix -bi could signify conjunctive 'and' as well as 'that' (demonstrative pronoun) or 'its, their' (possessive pronoun). Examples of conjunctive –(bi)-da:

lú lú-da man with man = man and man, both men

áb amar-bi-da cow with its calf = cow and calf nita munus-bi male with female = male and female

Note the position of -bi-da before a genitive -ak in the following: maš-da-ri-a ki-a-naĝ en-èn-tar-zi du-du saĝa-bi-da-kam 'It is (-am) the mašdaria-tax for the libation places of both Enentarzi and Dudu the administrator' (Nik I 195 1:4-2:3 OS). An Old Sumerian variant of -bi-da is -bi-ta, e.g. šu-níĝin 158 udu sila₄-bi-ta 'total 158 sheep and lambs' (VAT 4444 2:3), either an orthographic variant of -da to be transliterated as -dá or a pronunciation variant, or possibly an actual instrumental -ta postposition used anomalously with comitative force.

In an <u>abilitative</u> function, the comitative case also provides the only way in Sumerian to convey the notion 'to be able'. This meaning is indicated only in the verb by a comitative dimensional infix. See CAD L 152 *le'û* lexical section for bilingual paradigms from the Old Babylonian and Neo-Babylonian grammatical texts. To illustrate:

é in-da-an-dù He built (-n-dù) the house with/by him(self) (in-da-) = He was able to build the house

ABLATIVE-INSTRUMENTAL -ta (§203-212)

As its name indicates, the ablative-instrumental postposition -ta has two different functions. In its <u>ablative</u> use its basic meaning is "removal or separation in space or time." Spatially it signifies "away from (a place)," "out of (an area or container)." Temporally it can be used in adverbial phrases or subordinate clauses to signify "when, since, after (the time that something happened)," especially with u₄ 'day, time':

u₄-bi-ta from that day, since that time, thereafter

u₄ é ba-dù-a-ta since the day that (-a) the temple had been built

The ablative tends to replace the locative especially in certain stereotyped expressions such as sahar-ta tuš 'to sit down in the dust', also frequently when action is being described which occurs within a place away from that of the speaker, a usage M. Civil has characterized as "location of remote deixis" (JAOS 103 [1983] 63; Farmer's Instructions [1994] 84), as in diĝir-e é-mah-a-ni-ta nam in-tar 'The god decreed destiny from (within) his lofty temple'.

In its <u>instrumental</u> use -ta signifies 'by means of, with', as in "to cut with an ax," "to fill with water." It is also used adverbially to describe emotional states, e.g.:

lipiš-ta with anger > angrily

šà-ga-ni-ta with his/her heart > willingly šà-húl-a-ni-ta with his/her happy heart > happily

In many instances it is difficult to decide whether -ta is being used in a locative or instrumental sense, for example:

1 sila₄-ga ne-mur-ta ba-šeĝ₆
1 suckling lamb was roasted in (with?) hot embers
(BIN 3, 74:1-2 Ur III)

(45 sheep and goats) gir₄-ta ba-šeĝ₆
(45 sheep and goats) were roasted in (with, using?) an oven
(Kang, SACT I 171:1-4 Ur III)
(Both references apud Steinkeller, Bulletin on Sumerian Agriculture 8, 62 n. 7)

TERMINATIVE -šè (§195-202)

The usual citation form of the terminative is -šè. The sign ŠÈ, however, also has the value éš. There is evidence to show that the terminative could be pronounced /eš/ when preceded by a consonant or /š/ or /še/ when preceded by a vowel. Compare writings such as gal-le-eš vs. gal-bi-šè 'greatly' or saĝ-biš for saĝ-bi-šè 'to its fore/top'. Jagersma 2010 cites the personal name marked with a terminative lú-níĝ-lagar-e-eš (FAOS 17, 96: 3-5). Thomsen therefore introduced a hybrid form /eše/ as the basic citation form of the terminative. Compare é-me-eš-e ĝe₂₆-nu 'Come into our house!' (Inana-Dumuzi Y 33) to be analyzed {é+me+(e)še}. (See also immediately below for P. Attinger's separation of the traditional terminative into two related but functionally different morphemes.) Scholars normally do not attempt to deal rigorously with this phonological variation and for convenience normally read the sign ŠÈ as šè in most environments. See the Summary of Pronouns Chart (p. 37) for the terminative with possessive suffixes.

The general meaning of the terminative is "motion towards and terminating at" a locus or goal. It is common not only with verbs of motion and action but also with with verbs of perceiving or attending, such as "to look at," "to listen to," "to pay attention to."

en-en-né-ne-šè hal-ha-dam It is to be distributed to all the (dead ancestral) lords (DP 222 r. 5:1'-2' OS)

2 r. 5:1'-2' OS)

ka-ta è-a lugal-ĝá-šè ĝizzal_x hé-em-ši-ak I have paid attention to what has issued from the mouth of my master (Išme-Dagan A 135 OB)

igi-zi mu-un-ši-in-bar-re-eš sipa ^dur-^dnamma-ra They directed a righteous eye towards him, to shepherd Ur-Namma (Ur-Namma B 36 Ur III) The personal dative postposition -ra here replaces -šè, but the terminative required by the verb is retained in the verbal prefix -n-ši- 'toward him'.

DN-ra nam-ti PN-a-šè a mu-na-šè-ru He dedicated (the votive object) to the deity DN for the life of PN (Common OS dedicatory phraseology)

An important secondary use of the terminative is to form adverbial expressions like gal-le-eš "greatly, much, well," u4-dè-eš "like the day," or u4-ul-la-šè "unto distant days, forever." Attinger (1993, pp. 168-70; 254-5) assigns this adverbgenerating function to a newly identified morpheme which he calls the <u>adverbiative</u> with a pronunciation /eš(e)/, to be distinguished from the proper terminative with a pronunciation /še/. Cf. Steible, FAOS 9/2 129, who refers to this function as Terminativ-Adverbialis, a term that calls to mind the Akkadian terminative-adverbial -iš suffix which also generates adverbs, e.g. rabîš 'greatly, grandly'. In this function the terminative varies rather freely with the locative-terminative, as in the synonymous expressions téš-e, téš-bé, téš-bi-šè 'together, as one'. Compare the following two sets of parallel passages:

igi-bi-šè é ba-sa₁₀
Before them (the witnesses) the house was bought (Steinkeller, Sales Documents No. 73:18 Ur III)
igi-bé saĝ ba-šúm
Before them (the witnesses) the slave was given over (ibid., No. 68:17)
ĝiš UR.UR-šè e-da-lá
He waged man-to-man combat with him (Ent 28, 3:10 OS)

 $\{Vn+da+n+l\acute{a}+\emptyset\}$

{en-en+ene+šè)

ĝiš UR.UR-e e-da-lá He waged man-to-man combat with him (Ean 1, 9:1 OS)

Probably related to this adverbiative function is the use of the terminative in the meaning 'as, in the role or status of, for' as in:

ur-^dma-mi maškim-šè in-da-an-gi₄ He sent back Ur-Mami with him (in-da-) <u>as</u> the commissioner (NSGU 121:5 Ur III)

^dšu-^dsuen ki-áĝ ^dnanna lugal ^den-líl-le šà-ga-na in-pà sipa kalam-ma ù an ub-da límmu-ba-šè Šu-Sîn, beloved of Nanna, king (whom) Enlil chose in his heart <u>as</u> the shepherd of the nation and of the four world quarters (Šū-Sîn No. 7, 5-11 Ur III)

Like the locative-terminative the terminative can mark the second member of a comparison on the pattern of é-gal-lani é-zu-šè mah-àm 'his palace is greater than your temple'. Compare the expression diri-zu-šè 'more than you' (Letter Collection B 5:6 OB). For other examples and other specialized uses of the terminative see Thomsen §198-200.

COMPOUND VERBS AND THE STANDARD RECTION OF VERBAL COMPLEMENTS

As mentioned previously, many Sumerian verbs are normally associated with or require complements (indirect objects) standing in particular adverbal cases. This is especially true of what are termed <u>compound verbs</u>, verbal roots with specific nominal patients (objects) which when used together render ideas often expressed by single words in our familiar western languages. For example, the compound verb ki(g) - áĝ 'to measure out love' = 'to love' presupposes an indirect object indicating the someone (dative) or something (locative-terminative) that is loved. Thomsen's Catalogue of Verbs (pp. 295-323) supplies the typical case used to mark the indirect object for many common verbs including standard compound verbs. It might be a helpful resource when one begins to analyze complete Sumerian sentences. The Elementary Sumerian Glossary which is a companion to this grammar includes many compound verbs, listed by their head nouns, and occasionally notes the case postpositions commonly occurring with particular verbs.

REMEMBER: ABSOLUTIVE -Ø (zero mark of the subject/patient)

ERGATIVE -e by (whom, which)

LOCATIVE-TERMINATIVE -e by, at, on, upon, next to, for (things)

DATIVE -ra to, for (persons)

LOCATIVE -a in, into, within, among; during

COMITATIVE -da together with

ABLATIVE-INSTRUMENTAL -ta from, out of; by means of

TERMINATIVE -šè to, towards, for, as; (adverb formative)

IF IN DOUBT, TRANSLATE THE LOCATIVE-TERMINATIVE FIRST AS 'with respect to', THEN USE CONTEXT TO CLARIFY ITS MEANING!

THE NOMINAL SUFFIX -bi HAS THREE USES:

POSSESSIVE: its, their

DEMONSTRATIVE: this, that, these, those

CONJUNCTIVE: and (< -bi-da)

INTRODUCTION TO THE VERB

ERGATIVITY (§38-42; 275-278)

In an Indo-European subject/object or nominative/accusative language, an intransitive verb takes only a subject, as in "the king (subject) died." A transitive verb, on the other hand, ordinarily requires not only a (nominative) subject but also an (accusative) direct object towards which the action of the verb is directed or transferred (thus Latin *trans-itivus* 'gone across'), as in "the king (subject) built the house (object)."

In Sumerian, an ergative language, there is little apparent distinction between transitive and intransitive verbs, the notion of "subject" takes on a decidedly larger meaning, and the notion of "direct object" is not particularly useful at all in describing the working of the verbal system. Many scholars currently working with Sumerian as an ergative language now however follow modern linguistic practice and make a syntactic distinction between the <u>subject</u> of an intransitive verb and the <u>patient</u> (virtual direct object) of a transitive verb, even though both are marked by the same absolutive case. Here we will also follow this practice and speak of a either a subject or patient which experiences or undergoes a state, process or event, versus an <u>agent</u> (from Latin agere "to do") which causes that state or event to happen.

The term ergative (derived from a Greek verb meaning "to work, do") is used by linguists both to label the case which marks this agent and also to distinguish the languages which feature such an ergative/absolutive contrast from those, like English, which show a nominative/accusative opposition in their basic verbal morphology.

As you begin your study of the verb, it will be very helpful to keep the following axiom in mind:

Every regular Sumerian sentence or clause will always contain a subject (or patient). An agent, on the other hand, will always be a strictly optional addition to a sentence.

The following two sentences have precisely the same basic syntax in Sumerian:

lú and é are a subject and patient respectively, both standing in the unmarked absolutive case (-Ø). They are also represented in the verbal chain by the suffix of the 3rd sg. verbal subject (also -Ø, see later in this lesson). ba- is a verbal prefix unimportant to the present discussion. Now compare the same sentences with agents added:

Both sentences are again identical in structure. It and é remain in the absolutive case. lugal 'king' is the agent, marked by the ergative case postposition -e and in the verbal chain by the 3rd sg. personal pronominal prefix -n- (see the full agent paradigm later in this lesson).

The root úš 'to die' would be considered intransitive in English, the root dù 'to build' transitive. Since there is, however, a less compellingly intransitive/transitive distinction in Sumerian, if we wish to gain any sense at all of how Sumerian might have understood the notion "to build (something)" we have no other choice in English but to resort to a passive translation: "to cause (something) to be built." Mentally converting apparent transitive roots to passives may help initially to simplify the task of analyzing Sumerian verbal forms, e.g. dù 'to be built'.

To characterize the ergative pattern more generally in terms of our familiar subject/ direct object and transitivity contrasts:

In an ergative language, what we would normally call the subject of an intransitive verb and the direct object of a transitive verb are both marked by the same case, in Sumerian (and in many other ergative languages) by the absolutive zero-marked case, while the subject of a transitive verb is marked differently, in Sumerian by the ergative case.

In a nominative/accusative system, by contrast, the subjects of both intransitive and transitive verbs are marked by the same case, typically the nominative case, while the object of a transitive verb is marked differently, typically by the accusative case.

You may note that Thomsen (§277-286) refers to a Sumerian verb featuring only a subject as having only "one participant." A verb featuring both a patient and an agent is then referred to as a "two participant construction." (Similarly, in my Orientalia 44 (Rome, [1975] article on the ergative system of Sumerian, I refer to the subject/patient and agent as the "first" and "second participant" respectively.) A sentence may also feature additional "participants," i.e. a variety of indirect objects such as dative or locative phrases. Since it is technically possible for a sentence to contain two kinds of participants which are not a patient and agent, a subject and a dative indirect object for example, such terminology is useful only in carefully defined circumstances, and it will be avoided in this introduction.

Lastly, observe how the suffix -Ø and infix -n- in the examples above <u>resume</u> in the verbal chain information already supplied in the nominal chains of the sentences. The underlying purpose for such incorporation of nominal information in the verb is to provide a means of pronominalizing that information. If all the nominal chains of the four preceding examples were deleted, the remaining verbal forms would still be complete Sumerian sentences, but with pronominal, rather than nominal, subjects and agents:

ba-úš He died. ba-an-úš He killed him. ba-dù It was built. ba-an-dù He built it.

TENSE AND ASPECT (§235-241)

While English and other modern European languages show clear aspectual characteristics, their verbal systems are predominately tense oriented (the major exceptions are the Slavic languages, in which tense and aspect are central and grammatically distinct features). Sumerian, on the other hand, seems to be a predominately aspectual language, in which verbal events are viewed in the simplest terms as either "completed" or "non-completed, on-going." A perfective verbal form will usually refer to an event which has taken place in the past, but it could also refer to a event which the speaker believes will definitely take place sometime in the future. An imperfective verbal form will usually refer to an event which is happening in the present or will be happening in the future, but it can also refer to action that was on-going in the past. The Sumerian perfective can theoretically therefore be translated by English definite past or future forms ("did, will certainly do"), while the imperfective can be translated by English past, present or future tense forms which do not emphasize or imply completion of action. Progressive, iterative or habilitative expressions will sometimes prove helpful ("was/is/will be doing, did/will do repeatedly, used to do/always does"). Many scholars make use of the native Akkadian grammarians' terms hamtu 'quick' and marû 'fat, slow' in reference to the Sumerian perfec-

tive and imperfective aspects, and the practice will be maintained here for convenience despite some past concerns about its appropriateness (see Thomsen §231).

THE SUBJECT/PATIENT PARADIGM FOR PERFECTIVE (hamţu) VERBS (§279; 294-299)

A nominal chain representing the (intransitive) subject or (transitive) patient of a sentence stands in the absolutive case. This subject is also marked in the perfective verbal chain by a corresponding pronominal suffix, conjugated for person, number, and gender, placed after the root and any stem modifiers (discussed elsewhere), as follows:

Sg 1 -(e)n 2 -(e)n 3 -Ø	I, me you he/him, she/her, it	(also rarely just –e in Ur III) (ditto)
Pl 1 -(e)nden 2 -(e)nzen 3p -(e)š 3i √-√	we, us you they, them (personal) they, them (impersonal)	(also just -e in OS) (reduplication)

The contrast in the singular between 3rd and non-3rd persons is less startling if one recalls that in the present tense of English verbs a similar, albeit reversed, contrast exists, as in I/you go vs. he/she/it goes.

For the 3rd person singular no distinction is made between personal and impersonal subjects; both are marked by -Ø. For the 3rd person plural the suffix -(e)š is used, but ONLY for personal subjects. In Old Sumerian the final /š/ can be dropped, and the 3rd pl. suffix becomes just -e. This sometimes happens even within the same text as in Nik I 7 or Nik I 14 which show both ba-ug₇-ge-éš and ba-ug₇-ge 'they died' in different lines. Whether the apparently optional deletion of /š/ is a matter of actual phonology (a difference of dialect or idiolect?) or of orthography is not clear. One also occasionally sees the dropping of final /n/ in Ur III texts, leaving just -e for the 1st and 2nd sg.

Reduplication of the verbal root (represented above as $\sqrt{-\sqrt{}}$) can serve to indicate plurality of 3rd person impersonal (and occasionally personal) subjects, especially in the older stages of the language. For example:

```
máš-gán máš-gán-bi ba-bir-bir
All its settlements were scattered apart
(Uruk Lament 5:9 OB)

sahar-du<sub>6</sub>-tag<sub>4</sub>-bi eden-na ki ba-ni-ús-ús
Its many burial mounds he laid upon the ground in the steppe
(Ent 28-29, 1:30f. OS, -ni- resumes -a, ba- resumes -e)
```

Just as adjectives could be reduplicated to indicate either pluralization or intensification of the root idea, there is some later evidence to suggest that reduplication of the root in finite verbs could likewise convey intensification as well as pluralization, even though this practice may be a later innovation. Two contiguous lines from a scribal debate may show both uses (unless the first also illustrates pluralization):

```
é <u>dù-dù</u>-a-ni mu-un-<u>gul-gul</u> èrim-ma-ni mu-un-bu
nunuz <u>ĝar-ĝar</u>-ra-ni bí-in-<u>gaz-gaz</u> ab-ba im-mi-in-šú
Her (Bird's) well-built house he (Fish) thoroughly destroyed, he tore up her storehouse,
In it he smashed all her laid eggs and cast them out into the sea
(Bird and Fish 107f. OB)
```

The /e/ vowel of the subject pronouns, shown in parentheses, is, in my view, best considered an epenthetic helping vowel used, when a root ends in a consonant, to separate that consonant from the following consonantal subject suffix. As can be seen in the following examples, this helping vowel can assimilate to the vowel of the preceding verbal stem. (In the traditional Poebel-Falkenstein description the /e/ vowel is regarded instead as morphologically a part of the suffixes (-en, -eš, etc.); it is described as then elided or contracted when a preceding stem ends in a vowel.)

Examples:

ba+du+n	> ba-du-un	I/you go away
ba+gub+n	> ba-gub-bé-en (ba-gub-bu-un)	I/you stood
ba+tuš+Ø	> ba-tuš	He/she/it sat down
ba+dù+Ø	> ba-dù	It was built
ba+tu(d)+nden	> ba-tu-dè-en-dè-en	We were born
ba+ku ₄ (r)+nzen	> ba-ku ₄ -re-en-zé-en	You (pl.) entered
ba+šub+š	> ba-šub-bé-eš (ba-šub-bu-uš)	They (people) were cast down
ba+dù+dù	> ba-dù-dù	They (things) were built

THE AGENT PARADIGM FOR PERFECTIVE (hamtu) VERBS (§280; 290-293)

A nominal chain representing the agent of a sentence stands in the ergative case, marked by the postposition -e. This agent is also marked in a perfective verbal chain by a corresponding verbal prefix conjugated as follows:

Sg 1 2 3p 3i	-Ø/? -e- -n- -b-	I, by me you, by you he/she, by him/her it, they, by it/them	(Jagersma 2010 posits glottal stop) (-Ø- or assimilated -V- before OB) (mostly unwritten or assimilated -V- before OB)
Pl 1 2 3p	 -n-√-(e)š	they, by them	(-n- often unwritten until mid Ur III)

The rank order position of the ergative prefixes in the verbal prefix chain is always the last slot before the root or, put another way, the <u>preradical</u> position, i.e. the first prefix slot to the left of the root as we transliterate the verbal chain. See the appended Verbal Prefix Chain rank order chart in Appendix 1 of this grammar.

The 1st and 2nd sg. elements are problematic in most periods. It may well be that in the earlier stages of the language the same contrast held here as in the paradigm for the verbal subject, i.e. 3rd sg. (-n- or -b-) vs. non-3rd sg. (-Ø-, some vowel, or perhaps lengthening of a preceding vowel). As late as Gudea only assimilated forms of 2nd sg. -e- are attested, e.g. ba+e > ba-a-. Similarly, -n- often appears as an assimilated vowel until the end of Ur III, e.g. nu+e > nu-ù-, bí-in- > bí-ì-, etc. 2nd sg. -e- may have been a reformulation or creation of the Akkadian scribes. Several of the Old Babylonian grammatical texts (see J. Black, Sumerian Grammar in Babylonian Theory [1984]) show what is certainly an artificial distinction: 1st sg. -a- versus 2nd sg. -e-.

In this agent paradigm the distinction personal vs. impersonal is preserved only in the 3rd person pronouns. The 3rd pl. sequence $-n-\sqrt{-(e)}$ is used only for personal nouns, and the prefix -b-, like the corresponding possessive suffix -bi, is usually used only for impersonal nouns or (collective) groups of persons. Exceptionally, however, -b- can be used with a deliberate deictic nuance ('that one') and to "objectify" or refer dismissively to persons, especially slaves, as in Inana's Descent 310: dinana iri-zu-šè ĝen-ba e-ne ga-ba-ab-túm-mu-dè-en 'Inana, go off to your city, let us take away THAT one!' (in cohortative ga- forms preradical -n/b- mark direct objects, and here the independent pronoun e-ne 'he, him' is resumed by -b-). Finally, -b- instead of -n- can be found in poorly written OB texts, for which no explanation exists except for "scribal error."

1st or 2nd person pl. agent prefixes are not attested and presumably never existed. The 3rd pl. personal prefix is <u>discontinuous</u>, that is, it is composed of a prefix -n- and a suffix -(e)š (an /e/ or an assimilated /V/ appears following a consonant) placed before and after the root respectively. The shape of this affix can give rise to ambiguous verbal forms, since the the prefixed -n- and suffixed -(e)š can each have separate different uses. Compare the following:

lú ba-zi	The man rose	$\{ba+zi(g)+\emptyset\}$
lú-ne ba-zi-ge-eš	The men rose	$\{ba+zi(g)+\S\}$
lugal-e lú ba-an-zi	The king caused the man to rise	$\{ba+n+zi(g)+\emptyset\}$
lugal-e lú-ne ba-an-zi-ge-eš	The king caused the men to rise	$\{ba+n+zi(g)+\check{s}\}$
lugal-e-ne lú ba-an-zi-ge-eš	The kings caused the man to rise	$\{ba+n+zi(g)+\S\}$

The last two verbal forms are identical in form but not in function. The first includes a 3rd sg. agent marker -n- and a 3rd pl. subject marker -(e)š. The second features the discontinuous 3rd pl. agent marker -n- $\sqrt{-}$ (e)š. If the subject and agent were understood and marked only by pronominal elements in the verbal chain, the bare verbal chain ba-an-zi-ge-eš would be ambiguous, and only the context could determine which meaning was intended. Note further that when the pl. marker -n- $\sqrt{-}$ (e)š is used, the -(e)š suffix displaces any suffixed subject marker. The minimal verbal sentence ba-an-zi-ge-eš could thus actually represent either 'He/she (-n-) caused them (-š) to rise' or 'They (-n- $\sqrt{-}$ (e)š) caused me/you/him/her/it/them to rise'! The verb in the following context passage is ambiguous and could also be translated 'they made him (etc.) return':

```
ki-ni-šè bí-in-gur-ru-uš
He (-n-) made them (-eš) return to his place
(Puzur-Šulgi letter to Ibbi-Sin 40 OB, bí- resumes -šè)
```

-n- $\sqrt{-}(e)$ š is no doubt an early innovation, a 3rd sg. -n- prefix made plural by an added 3rd pl. subject suffix -(e)š. Compare the imperative which can be made plural using a 2nd pl. subject suffix -nzen. -n- $\sqrt{-}(e)$ š is rare though not unknown in Old Sumerian (e.g. ba-ĝar-éš in Nik I 155 4:5), but particularly in economic texts singular verbal forms are regularly used for plurals, e.g. šub-lugal-ke₄-ne e-dab₅ 'the king's underlings took it' (DP 641 8:8). An explicitly plural agent marker on the verb was probably felt not to be necessary when the nominal chain already conveyed this information. On the other hand, in Ur III economic texts it is not uncommon for personal agents, whether or not they are marked with the explicit plural element -(e)ne, to be resumed in the verb by a collective -b- element rather than -n- $\sqrt{-}(e)$ š, for example:

5 1/3 (bùr) aša₅ sig₅ àga-ús *Tab-ba-ì-li*-ke₄-ne íb-dab₅ 5 1/3 bùr of good field were taken by the guards of Tabba-ili (Contenau, Umma No. 100 2:1-4 Ur III)

130 gú 7 ma-na siki sig_{17} ki Lú-^dnin-ĝír-su dumu Ir_{11} -ĝu₁₀-ta dam-gàr-ne šu ba-ab-ti 130 talents 7 minas of yellow wool was received by the merchants from L. son of I. (HSS 4, 156:1-5 Ur III)

```
šà-nin-ĝá ù lú-ur<sub>4</sub>-šà-ga-ke<sub>4</sub> íb-gi-in
Š. and L certified it
(Fish CST 871 d 2 Ur III)
```

THE SO-CALLED CONJUGATIONAL PREFIX i- (§305-321)

When one of the above ergative pronominal prefixes stands as the only element in a verbal prefix chain, i.e. when it is initial in a chain with no other prefix preceding, then – in the view of this grammar – the language employs a prosthetic vowel, usually /i/, sometimes /e/ or /a/, to render certain forms pronounceable:

```
Ø+dù+Ø >
                                   I built it
                                                                       (agent \emptyset/2 + \sqrt{+3}rd sg. patient)
                 ì-dù
                                                                       (no helping vowel needed)
e+dù+Ø >
                 e-dù
                                   You built it
n+d\dot{u}+Ø >
                 in-dù
                                   He/she built it
b+d\dot{u}+Ø >
                 ib-dù
                                   They (collective) built it
n+d\hat{u}+\hat{s} >
                 in-dù-uš
                                   They (personal) built it
```

When, on the other hand, a preradical pronoun is preceded by another prefix ending in a vowel (nearly all other possible prefixes), no helping vowel is needed. Following are examples featuring four common prefixed preformatives by way of illustration (refer to the Verbal Prefix Chain chart on p. 155), as well as two context passages:

```
ga+b+su
                 > ga-ab-dù
                                  I will replace it (-b-)
                                                                    (cohortative ga-)
hé+n+dù+Ø
                 > hé-en-dù
                                  He should build it
                                                                    (precative hé-)
                                                                    (negative nu-)
nu+n+dù+š
                 > nu-un-dù-uš They did not build it
u+b+du+Ø
                 > ub-dù
                                  When they (coll.) had built it
                                                                    (prospective ù-)
tukum še ì-ĝál ... tukum nu-ĝál ...
If there is barley ... (but) if there is not any (barley) ...
(TCS 1, 367 rev. 2'/4' Ur III)
1 ama-áb 2 gir mu-1 zà ì-šu<sub>4</sub> 1 gir sig zà nu-šu<sub>4</sub>
1 mother cow, 2 1-year old heifers, branded; 1 weak (thin) heifer, not branded
(Erm 14338 i 1-5 OS)
```

Lastly, if a sentence does not feature an agent, and no other morpheme is marked by a prefixed element, this prosthetic vowel can be prefixed merely to show that the verbal form is finite, since by definition, barring certain technical exceptions, a verb must feature some prefix to be considered finite (cf. Thomsen §273). For example:

```
lú \hat{g}en+\emptyset > lú V+\hat{g}en+\emptyset > lú ì-\hat{g}en The man went
```

In texts earlier than the middle of the Ur III period the prefix -n- is mostly not indicated in writing, although its occasional appearance indicates that it was known or felt to be present morphologically. Since the 1st sg. element is unmarked (-Ø- or -2-), and the 2nd sg. agent is also often unmarked until later in the Ur III period, the unfortunate result of these orthographic practices is that in early texts a sentence such as é ì-dù can be translated as 'I, you, or he/she built the house', or conceivably even as an agentless sentence 'the house was built', dependent entirely upon context.

C. Wilcke observed (AfO 25 (1974-77) 86+ n. 8, 88) that in Old Sumerian texts from Nippur and Šuruppak at the northern border of Sumer, the initial prosthetic vowel is only ì-, while in texts from Umma in the middle of Sumer it is only e-. The variation between ì- and e- is manifested in other contexts besides the regular verbal prefix chain. For example, in the literary school text Scribe and His Perverse Son 132 the Nippur duplicates write ì-ne-éš 'now', while the duplicate from Ur in the south of Sumer writes e-ne-éš.

Finally, texts of early Lagaš, near Umma, show a not entirely consistent system of i/e vowel harmony, both in prosthetic and epenthetic vowels, dependent upon the vowel of the root or to some extent that of preceding dimensional prefixes: /i/ before /i/ and /u/ sounds, /e/ before /e/ and /a/ sounds, e.g. ì-šúm vs. e-ĝar. See Thomsen §7. Further:

gag-bi é-gar₈-ra <u>bí-dù</u> ì-bi zà-ge <u>bé-a₅</u> {bi+n+dù+Ø} {bi+n+ak+Ø} Its peg-document he inserted into the wall, its oil he applied to the edge (Edzard, SRU 31 6:16-18, an OS property sale formula)

In Sargonic and earlier texts the vowel a- frequently replaces i- in agentless "passive" verbs especially before dative -na- (see Å. Westenholz, Early Cuneiform Texts in Jena [1975] 8). P. Steinkeller notes that a- is "characteristic of Fara, Pre-Sargonic and, though to a lesser extent, Sargonic texts," and that "a- appears in sentences where the agent is implied but not spelled out," differing in function from the ba- prefix in truly agentless sentences (Third-Millennium Legal and Administrative Texts [1992] 35). In Pre-Sargonic Lagaš texts a- is common in the forms ab-√ or an-√, where -b- or -n- indicate a locus rather than an agent. This is by no means a rigid system, however; a- appears in other contexts, as well as in other times and places, functionally indistinguishable, to our eyes at least, from i-, possibly a dialectal feature. It is significant, however, that a- is also a component of the Stative Prefix al- (see below).

One may speculate that the ultimate origin of the prefix i- (var. e-) in minimal $i+\sqrt{forms}$ was a preradical /n/ used either with ergative or locative meaning. In the Pre-Sargonic Lagaš economic corpus, for example, where preradical /n/ is normally not written, $i/e-\sqrt{forms}$ are usually found in association with agentive or locative nominal chains which in later periods would be marked in the verb with a preradical /n/. (By contrast, minimal agentless verbs usually take the form ba- \sqrt{i} in that corpus.) This phenomenon would help to explain why this prefixed /i/ sound came to be written with the sign whose other main reading is /ni/, the other form of the verbal locative prefix (see later).

The foregoing interpretation of the uses of the verbal prefix element /i/ contrasts strongly with the traditional Poebel-Falkenstein explanation of the Conjugation Prefix i-, continued and amplified by Thomsen and others. It is in my view an elegant solution to a perennial problem of Sumerian grammar, but only a few aspects of this interpretation are gradually gaining wider acceptance. In any case the term Conjugation Prefix, referring to the prefixes mu-, bí- and ba-as well as i-, should now be abandoned as a useless misnomer (cf. D. Edzard, ZA 78, 114 n. 13).

THE STATIVE PREFIX al- (Thomsen §353-358)

Because some prefix is required to make a verb finite, in simple agentless verbs one often encounters verbal prefixes which do not seem to be strictly required by the meaning or syntax and which are consequently difficult to translate. The prefix ba- often serves as such a finite formative (especially the so-called "passive" use of ba-), and in such contexts it must usually be left untranslated.

The language actually has a special prefix al- for use in such situations. Since al- always occurs in agentless sentences, Akkadian translations of verbal forms featuring al- sometimes take the form of agentless Akkadian statives (conjugated verbal adjectives, often passive in sense, e.g. *paris* 'it was cut'). Thus al- has come to be referred to as the Sumerian stative prefix.

Since its primary function is to make finite a verbal form lacking any other prefix, al- should properly stand alone in a verbal form, and usually it does. There are, however, a few attestations of its co-occurring with a preformative, thereby defeating its original purpose by rendering it unnecessary. These very rare exceptions include a negated form $nu-al-\sqrt{}$ or $nu-ul-\sqrt{}$ and prospective forms $ul-\sqrt{}$ or $\dot{u}-ul-\sqrt{}$. The latter elided forms suggest that al- should probably be analyzed as an element l plus a prosthetic vowel l (see above). Since l and l alternate in certain contexts – compare the allomorphs la- and li- of the negative preformative l or l to the obsolete nominal formative l person' – it is possible the stative prefix al- goes back to an early preradical locative prefix l an-l which served merely to locate a minimal verb existentially "here" in space and so to render it finite. That the al- prefix adds little or no information to the verbal form can be seen from the following three parallel entries from Ur III economic texts, where a relativized finite verb featuring a stative al- varies with simple non-finite past participles:

50 ^{urudu} ha-bù-da dúb-ba	(UET 3, 311:1)	{dúb+a}
46 ^{urudu} ha-bù-da dúb-ba	(UET 3, 312:1)	
180 ^{urudu} ha-bù-da al-dúb-ba	(UET 3, 396:1)	{al+dúb+Ø+a}
n copper hoes (which were) broken		

Compare the expression 'split fish' which is consistently written ku₆ dar-ra in Old Sumerian and Sargonic economic texts, but ku₆ al-dar-ra in Ur III texts. A few further examples:

80 (sar) kiri₆ gú pa₅-PAD al-ĝál 80 (square) *sar* of orchard existing (on) the bank of the PAD-ditch (MVN 3, 13 OS)

inim-bi igi-ne-ne-ta al-til This matter was concluded in front of them (Edzard, SRU 20:32-33 OAkk)

1(bán) ku₆ al-šeĝ₆-ĝá 1 *ban* of fish which has been cooked (Limet, Textes No. 93:9 Ur III)

diĝir-ama diĝir-a-a ul-su $_8$ -ge-eš-a-ta { $\dot{u}+(a)$ l+su $_8$ (g)+eš+a+ta} When the mother-gods and father-gods stood by (Lugalbanda in Hurrum 160 OB)

BASIC SENTENCE SYNTAX

Sumerian is basically a Subject-Object-Verb (SOV) language. In a verbless nominal sentence the subject normally precedes the predicate. In a verbal sentence or clause the most reliable rule is that the verb stands in final position, although poetic license in literary contexts permits exceptions. In an "intransitive" sentence, featuring only a subject, the word order is Subject – Verb (SV). In a "transitive" sentence, featuring a patient and an agent, the usual word order is Agent – Patient – Verb (SOV), although the patient can be topicalized by placing it before the agent. Indirect objects and adverbial phrases typically stand between an initial subject or agent nominal chain, if present, and the verb, although once again such phrases can be topicalized by placing them earlier in the sentence.

REMEMBER WHEN ANALYZING ANY SENTENCE:

EVERY SUMERIAN VERBAL SENTENCE OR CLAUSE <u>ALWAYS</u> CONTAINS A SUBJECT OR PATIENT. IDENTIFY THE SUBJECT OR PATIENT BEFORE ANALYZING FURTHER!

A SENTENCE <u>MAY</u> CONTAIN AN AGENT. DETERMINE WHETHER AN AGENT IS PRESENT ONLY AFTER YOU HAVE IDENTIFIED THE SUBJECT OR PATIENT!

TRANSLATE PUTATIVE TRANSITIVE VERBS PASSIVELY TO HELP LOCATE THE SUBJECT!

 $\{al+\check{s}e\hat{g}+\emptyset+a\}$

DIMENSIONAL PREFIXES I: INTRODUCTION

The subject (or patient) of a sentence, standing in the absolutive case, is marked in the perfective verbal chain by a suffix, a pronominal element standing after the verbal root. Nominal chains standing in any of the remaining adverbal cases can be resumed in the verbal chain by a prefix, an element standing before the verbal root. The relative position of each prefix present in the chain is fixed: dative always comes before ablative, ablative comes before ergative, etc. See the Verbal Prefix Chain Chart in Appendix 1 for a schematic representation of the rank order of prefixes.

Since the Falkenstein school of grammar maintained that the dimensional prefixes cannot begin a verbal form but must always be preceded by one of a number of Conjugation Prefixes (a term and analysis not employed in this grammar), these prefixes have also therefore been referred to broadly as dimensional infixes rather than dimensional prefixes. Edzard's 2003 Sumerian Grammar avoids the problem by instead using the neutral term "indicator."

In its fullest form, a verbal dimensional prefix consists of a pronominal element and a case element which correspond to the antecedent head noun and case postposition of a particular nominal chain. This pattern holds for the dative, comitative, ablative-instrumental and terminative prefixes, and these prefixes therefore comprise one subset which henceforth will be referred to together as the <u>dimensional prefixes</u>. The prefixes which resume locative, ergative, and locative-terminative nominal chains, which stand nearer the root, consist theoretically of pronominal elements only, in my view, and represent a second subset of prefixes which henceforth will be referred to as the <u>core prefixes</u> (following Jacobsen), whose description is more problematic and which will consequently be treated separately.

DIMENSIONAL PREFIX PRONOUNS (§428-430)

The pronominal elements which can occur in dimensional prefixes are similar to the prefixes of the hamţu agent, at least in the singular:

Sg 1 mu/m 2 Ø/e/r 3p n 3i b	(Jagersma 2010 posits also a glottal stop in some contexts) (unassimilated -e- is not attested before OB)
Pl 1 ? 2 ? 3p ne	(me is predicted) (e-ne is predicted)

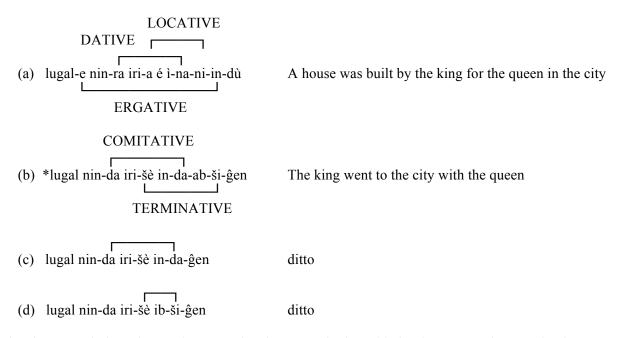
The several forms of the 1st and 2nd sg. elements alternate according to period and the prefixed case markers with which they occur; this alternation will be discussed in detail apropos of the locative-terminative core prefixes. Like the ergative pronominal elements, certain of the above elements will, according to the phonotactic scheme followed in this grammar, require a preposed prosthetic vowel to render them pronounceable when they stand initially in a verbal prefix chain, viz.:

mu+da+tuš+Ø	>	mu-da-tuš	He sat with me
e+da+ti(l)+Ø	>	e-da-ti	He lived with you
$n+da+ti(1)+\emptyset$	>	in-da-ti	He lived with him/her
b+da+gub+Ø	>	ib-da-gub	He stood with it
ne+da+ĝen+Ø	>	ì-ne-da-ĝen	He came with them

SYNTAX OF THE DIMENSIONAL PREFIXES (§423-427)

Dimensional prefixes theoretically resume or repeat in the verbal chain information already present in one or more nominal chains of a sentence. A pronominal element and following case element refer back to an antecedant head noun (with any modifiers) and the final case postposition respectively of a particular nominal chain, for example:

A sentence may contain a number of nominal chains, but there are restrictions on the number and kind that can be resumed by full dimensional prefixes (pronominal element plus case marker). A verbal chain can (theoretically) contain a maximum of one ergative prefix, one locative-terminative prefix, one dative prefix, and one other dimensional prefix. It might also feature a preceding secondary ba- prefix. A verbal chain may not contain two prefixes from the subset of comitative, ablative-instrumental, terminative. See the Verbal Prefix Chain Chart in Appendix 1 for restrictions. Thus, sentence (a) is grammatical but sentence (b) is not. Sentence (b) would have to be rendered either by (c) or (d) (although a prefix -ni- could substitute for the missing second prefix, see presently):



The above restrictions do not always apply when a comitative, ablative-instrumental or terminative case element is used without a pronominal element to lend a directional nuance to the meaning of the verb. Such instances have been explained as deletions of "understood" pronominal objects, as shown below in example (b). But compare form (c) from a Gudea royal inscription, where three allomorphs of the ablative prefix are employed in sequence to give an overwhelming ablative sense to the verbal idea:

(a)	im-è	It came hither (-m-)	$\{\mathbf{m}+\sqrt{+}\mathbf{\emptyset}\}$
(b)	im-ta-è	It came out <from it=""> hither</from>	$\{m+<\!b>+ta+\sqrt{+\varnothing}\}$
(c)	ma-da-ra-ta-è	It came out-out-out for me!	$\{ma+*ta+*ta+ta+\sqrt{+\emptyset}\}$

The last form is unusual but not unique (cf. im-ma-da-ra-ta-è in the OB myth Inana and Šukallituda 251 or in the OB epic Lugal-banda and Anzu 322) and may represent a playful stretching of the resources of the language, but it is

apparently still good Sumerian and represents a good indication that the da/ta/ši case elements in particular may be used independently to add more amorphous directional ideas to a verbal form without reference to any specific goal or object. There is not always a clear one-to-one correspondence between the nominal chains of a sentence and the markers in the verb. A prefix may, for example, pronominalize an understood nominal chain, especially one present in an earlier sentence or clause. For example, assume that sentence (b) below directly follows sentence (a) in a narrative. lugal 'king' would then be the understood subject of (b), marked only by the zero verbal subject pronoun (-Ø), and the dimensional prefix -b-ši- would refer pronominally to an understood nominal chain iri-šè 'to the city':

(a) lugal iri-bi-ta ib-ta-è The king had left that city $\{b+ta+\sqrt{+\emptyset}\}$

(b) a-na-aš ib-ši-gi₄ Why did he return to it? $\{b+\check{s}i+\sqrt{+\emptyset}\}$

Further, the 3rd sg. locative-terminative prefix -ni- (discussed in a later lesson) had a broad and quite general referential use, and it often resumes non-locative nominal chains. In the following illustrations it resumes dative and terminative objects respectively:

kur-gal-e sipa ^dur-^dnamma-ra nam gal mu-ni-in-tar The Great Mountain (= Enlil) decided a great fate for the shepherd, the divine Ur-Namma (Ur-Namma Hymn B 37 OB)

e-bi i₇-nun-ta gú-eden-na-šè íb-ta-ni-è That levee he extended from Princely Canal to Desert's Edge (Ent 28 ii 1-3 OS)

Finally, since the marking of the same idea in both a nominal and verbal complex is redundant, either a case postposition or a dimensional prefix can be omitted for stylistic or other reasons without significant loss of information:

lugal dumu-ni-da in-da-gub The king stood with his son (full form)

- (a) lugal dumu-ni-da ì-gub (shortened alternatives)
- (b) lugal dumu-ni in-da-gub

In OS Lagash economic texts, for example, omission of the nominal postposition, as well as prefixed pronominal elements, is especially common, e.g.

lá-a-ne-ne nu-ta-zi {lá+a+(a)nene+(ta)} It was not deducted from their surplus (Nik I 271 4:1 OS)

dub daĝal nu-ta-zi It was not deducted from the wide tablet (Nik I 210 4:1 OS)

Alternative marking can even be found within the same text, e.g.

PNN PN₂ e-da-sig₇ $\{V+(n)+da+sig_7\}$ PNN lived with PN₂

PNN PN₂ kurušda-da e-da-sig₇ PNN lived with PN₂ the animal fattener (CT 50, 36 14:1-3)

(CT 50, 36 11:2-3 OS)

One may suggest as a general principle that the marking in the verb of any information already present in the nominal parts of a sentence, or vice versa, is basically optional and at the discretion of a particular speaker. As a result, dimensional prefixes are rarer in verbal forms in earlier texts when Sumerian was a living language. Only later, especially after Sumerian died out, did extensive resuming of nominal information in the verb become the norm, and verbs in literary texts from the Old Babylonian schools show the most elaborate, and often fanciful, dimensional prefix sequences. To give only one minor example, one can encounter OB verbs featuring core prefixes that resume both a locative and a locative-terminative as in Šulgi R 66: dnin-líl-da ki ĝíšbun-na-ka zà-ge mu-di-ni-íb-si-éš 'With Ninlil {mu+n+da} they filled up to the *limits* (-e = -b-?) in the place of the feast (-a = -ni-)'.

VOCABULARY NOTE 1

Auxiliary Verbs

Many Sumerian compound verbs were formed using a head noun and one of the two auxiliary verbs $du_{11}(g)$ 'to do' or $a_5(k)$ 'to do, perform, make'. This was a highly productive method of new word formation and many such compound verbs exist. For full listings of occurring forms and detailed discussions of morphology and syntax see P. Attinger, Eléments de linguistique sumérienne (Fribourg, 1993), especially pp. 319-764 for " $du_{11}/e/di$ et ses composés," and "A propos de AK 'faire' I-II," Zeitschrift für Assyriologie 95 (2005) 46-64, 208-275. For an analysis of this use of ak see also J. Ebeling in Analyzing Literary Sumerian (London, 2007) 144ff., and note that M. Civil accepts a meaning 'to do' for du_{11} in these constructions (RAI 53 [2010] 524 n. 3). Some common examples include:

```
al - du11
                                            to desire, request
                                            to do words, speak (often with elliptical patient <inim>)
inim - du<sub>11</sub>
in - du<sub>11</sub>
kaš<sub>4</sub> - du<sub>11</sub>
                                            to perform running, run
mí - du<sub>11</sub>
                                            to act/treat gently, take care of, nurture
silim(-ma) - du<sub>11</sub>
                                            to perform a greeting, greet
še-er-ka-an - du<sub>11</sub>
                                            to do decoration, decorate
šu - du<sub>11</sub>
                                            to use the hand, exert oneself, act
šùd - du11
                                            to do a prayer, pray
                                            to wonder at, marvel at
u<sub>6</sub> - du<sub>11</sub>
<sup>(giš)</sup>al - a<sub>5</sub>
                                            to work with the pickax/hoe
en-nu-ùĝ - a<sub>5</sub>
                                            to perform the watch
                                            to do work
kíĝ - a<sub>5</sub>
                                            to do sniffing, sniff, smell
si-im(-si-im) - a<sub>5</sub>
```

Periphrastic Verbs

The auxiliary verbs $du_{11}(g)$ and $a_5(k)$ are also used with ordinary compound verbs to form new periphrastic verbs whose meanings rarely seem to differ except stylistically from the simpler expressions. The verb of the base expression takes the form of a hamtu participle (explained later). Examples:

á – dúb	to flap the wings	á-dúb - a5	to perform wing-flapping
bar - tam	to choose	bar-tam - a ₅	to do a choosing
ir - si-im	to sniff a scent	ir-si-im - a ₅	to do a scent-sniffing > to smell
ki - su-ub to rub the earth >		ki-su-ub - a5	to do an earth-rubbing > to perform
	prostrate onself		a prostration
pa - è	to make respendent	pa-è - a ₅	to do a making-resplendent
šu - luh	to clean the hands	šu-luh - a ₅	to perform a cleaning (of canals)
šu - tag	to touch with the hand	šu-tag - du ₁₁	to do a hand-touching > to adorn

REMEMBER: FULLY MARKED DIMENSIONAL PREFIX SEQUENCES RESUME

EXPLICIT OR UNDERSTOOD ADVERBAL NOMINAL CHAINS.

SOME DIMENSIONAL PREFIX CASE ELEMENTS ALONE CAN ADD NON-SPECIFIC DIRECTIONAL IDEAS TO THE VERB.

DIMENSIONAL PREFIXES II: DATIVE

THE DATIVE PREFIX PARADIGM (§431-437)

```
ma-
                to me
   2
                to you
        -ra-
   3p -na-
                to him, her
                to it, them (impersonal)
   3i
       ba-
P1 1
                                                (attested in OB only)
        me-
                to us
                                                (attested in OB only)
   2
               to you
        -e-ne-
   3p -ne-
                to them (personal)
```

In the singular, the dative prefix consists of a pronominal element /m/, /r/, /n/, or /b/ bound to a case element /a/, identical in form and possibly in origin with the locative postposition -a. In the 1st and 3rd person plural, it is apparently formed with the pronominal elements /m/ and /n/ bound to a case element /e/, probably identical in origin to the locative-terminative postposition -e. These dative prefixes are always written as bound open syllables, as units; the pronominal and case elements are never written separately. Of the plural prefixes, -ne- is well attested in all periods; me- is found only in a few OB texts and might have been an innovation, created by analogy with 1st sg. ma- and 3rd pl. -ne-; and -e-ne- may likewise have been an artificial creation based on the 2nd sg. pronominal element -e-. Edzard 2003 §12.8.1.5, cites at least one instance of a 3rd pl. -ne-a- instead of usual -ne-. The 1st and 2nd plural prefixes are on the whole quite rare.

When one of the prefixes -ra-, -na- or -ne- stands initially in the prefix chain, it must be preceded by the prosthetic vowel /i/ (in some contexts or dialects /a/ or /e/). By contrast, the prefixes ma-, me- and ba- may initiate a chain without the help of this vowel. No prosthetic vowel is needed when a dative prefix is preceded by another prefix ending in a vowel. Compare the following forms with and without a preceding negative preformative nu- 'not':

ma-an-šúm	nu-ma-an-šúm	He gave it (not) to me	
ì-ra-an-šúm	nu-ra-an-šúm	He gave it (not) to you	
ì-na-an-šúm	nu-na-an-šúm	He gave it (not) to him/her	
ba-an-šúm	la-ba-an-šúm	He gave it (not) to them	$\{nu+ba\} > la-ba-$
*me-en-šúm	*nu-me-en-šúm	He gave it (not) to us	(hypothetical)
ì-ne-en-šúm	nu-ne-en-sum	He gave it (not) to them	

In most periods it is common for the /n/ of -na- or -ne-, also of the locative-terminative prefix -ni- to be doubled, especially in initial position, e.g. in-na-an-du₁₁, in-ne-gub-ba-a, an-ne-šúm, ba-an-na-šúm, ki an-na-áĝ-ĝá-ni, na-an-ni-in-è, etc. This is an orthographic feature with no extra morphological significance (in the view of most but not all scholars) which should be discounted when analyzing verbs. It is seen elsewhere in the grammar, again in connection with /n/ sounds, but also with /m/ or even /b/. Cf. inim-ma-an-ni (AuOr 14, 163 1:2' Ur III) for inim-ma-ni 'his word', šu-du₈-an-ni (BibMes 1, 20 rev. 3' OAkk) 'his guarantee' for šu-du₈-a-ni, hé-na-lá-en-ne (TCS 1, 30:6 Ur III) for hé-na-lá-e-ne 'Let them pay him!', íb-bé regularly instead of íb-e 'he says', or the frequent initial prefix sequence nam-mu- for na-mu-.

SYNTAX OF THE DATIVE (§438-440)

The dative is a personal case exclusively; it can be used only with personal referents. A dative object is marked in a nominal chain by the postposition -ra (or -r or -Ø after vowels), and in the verbal chain by a corresponding prefix. If there is no nominal chain present, the dimensional prefix represents a pronominal object. Examples:

lugal-e engar-ra še ì-na-an-šúm

The king gave barley to the farmer

énsi-ke₄ lú-ne-er níĝ-ba ì-ne-en-šúm

The governor gave gifts to the men

diĝir-ĝu₁₀ nam-lugal ma-an-šúm My god gave kingship to me

nam-ti sù ì-ra-an-šúm

To you he gave long life

If an otherwise dative object is impersonal, it is marked in a nominal chain not by dative -ra but by the locative-terminative postposition -e and in the verbal chain by the 3rd sg. prefix ba-. While this is a generally applicable rule, note that nouns construed as collectives fall into the impersonal gender category, and it is entirely permissible for an ordinarily personal noun to be used as a collective and thus be marked by -e and resumed in the verbal chain by "impersonal dative" ba-, for example:

um-ma-bé ad gi₄-gi₄ ba-an-šúm ab-ba-bé inim-inim-ma ba-an-šúm To its old women he gave advising, to its old men he gave consulting (Curse of Agade 29-30 OB)

There has been speculation that historically -e was regularly used with personal nouns as well, resumed in the verb by the prefix -ni-, and that the nominal postposition -ra and the personal dative pronoun series in the verbal chain were secondary innovations. See the comments and examples of T. Jacobsen in JAOS 103 (1983) 195 note j.

Many verbs of motion which we would not necessarily associate with the idea of a dative goal show this personal/dative vs. impersonal/locative-terminative contrast, as in "to approach" or "to come/go to" a person (dative) or a place or thing (loc.-term.). Thus the dative is basically a directional element, like the locative-terminative; its ethical dative or benefactive use (to do something "for the benefit of someone") may have been a secondary development. It might well turn out that dative and locative-terminative will ultimately best be explained as merely the personal and impersonal forms of the same basic case, the same species of rection or direction of motion (see now G. Zólyomi, Orientalia 68 (1999) 251-3). Following are several artificial illustrations of parallel personal vs. impersonal forms:

lugal-e érin-e še ba-an-šúm

The king gave barley to the troops

šagina-ne-er kù-babbar ì-ne-en-šúm

To the generals he gave silver

inim diĝir-ra an-e ba-te

The word of the god approached heaven

lugal-ra ì-na-te

It approached the king

OTHER USES OF THE PREFIX BA- (Thomsen §337, 341-351; Edzard 2003 §12.8.1.3)

While the marking of locative-terminative goals, especially impersonal datives, was probably the original function of the prefix ba-, over time it came to acquire additional uses. It often serves as a kind of non-specific ablative marker ("away from, out of"), frequently co-occurring with the proper ablative dimensional case elements (-ta- and -ra-) to form the the emphatic ablative prefix sequences ba-ta-, ba-ra- and ba-da- (< ba-ta-) discussed later. One wonders

whether these ablative sequences were originally derived by grammaticalization from the adverbial expressions bar-ra or bar-ta 'outside', which became attached, in an abbreviated and reinterpreted form, to the head of the verbal chain in the manner of the prospective preformative ù-, which was almost certainly derived from the noun u_4 'day, time', or the dimensional prefix -da- which derives from the noun da 'side'. See discussion in Falkenstein, ZA 45 (1939) 180f. Ablative ba- is often seen with verbs of actual or figurative taking away, destroying, or other forms of spatial or temporal removal from the area of the speech situation. For example, it occurs commonly with (agentless) forms of the verb u 'to die', as in ba-u 'he died'. With the verb u 'to bring' it varies regularly with the ventive prefix multiher' to add opposing directional nuances: mu-un-deu 'he brought it in' vs. ba-an-deu 'he took it away'.

ba- may also function with a less obviously directional meaning as a substitute for the prefixed prosthetic vowel /i/. This use is common in verbal forms with no agents, as in é ba-dù 'the house was built', or ba-gub 'he stood', and many scholars now describe this ba- as an indicator of passive or middle voice. For such a view see the early work of C. Wilcke, Archiv für Orientforschung 25 (1974/77) 85 + n. 6; the arguments of C. Woods in his The Grammar of Perspective: The Sumerian Conjugation Prefixes as a System of Voice (Leiden, 2008); and now the description of the "middle marker" ba- in Jagersma 2010 §21.

Finally, it should be noted that in the collection of bilingual Old Babylonian Grammatical Texts (OBGT) ba- is consistently equated with the Akkadian verbal infix -t- which has four different meanings depending upon grammatical context, three direction-altering uses and one tense-related use: the separative (i.e. ablative), passive, reflexive, and perfect. Since Sumerian and Akkadian existed intimately together for a very long time in a linguistic area (German Sprachbund), it is not unthinkable that Akkadian speaking scribes may sometimes have employed the apparently at least partially corresponding Sumerian element ba- in ways similar to their Akk. -t- infix, particularly in the OB schools which were responsible for creating or preserving most of the extant Sumerian literary texts upon which we in turn base much of our grammatical description.

At some stage in the history of the language the rank order of ba- in the prefix chain changed, reflecting its expanded new range of uses. While it had the same origin and so, presumably, originally the same rank as the other dative prefixes, it eventually became capable of co-occurring with the 2nd and 3rd person personal dative prefixes: ba-ra-, ba-na-, ba-ne-. It does not co-occur with itself, *ba-ba-, and does not occur with 1st person prefixes in proper Sumerian contexts, i.e. *ba-ma- or *ba-me-, although the du/gen paradigm of the Old Babylonian Grammatical Texts does employ several ba-me- forms, with unusual and probably artificial Akkadian translations (OBGT VII 207-208, 219-229). In any event, despite its "dative" origin, ba- must be assigned a rank order slot immediately preceding that of the other dative prefixes; see the appended Verbal Prefix Chain chart for a schematic view of its rank and occurrence restrictions.

Thomsen, following Falkenstein, classes ba- among the "Conjugation Prefixes," a category of prefix which, in my view, reflects an inadequate overall analysis of the verbal prefix system. Her extended discussion of this traditional descriptive category can be found in §341-351.

PASSAGES ILLUSTRATING THE PREFIX BA-

ba- used to resume locative-terminative goals

a na₈-na₈ nu-na-šúm-mu anše a na₈-na₈ nu-ba-šúm-mu He used not to give him (-na-) drinking water, he used not to give the donkeys (ba-) drinking water (Ukg 6 2:6'-9' OS)

{anše+e}

anše sur_x(ÉRIN)-ra-ke₄ ba-su₈-ge-éš They (the men) were stationed by the team donkeys (Genouillac, TSA 13 5:4 OS)

 $\{ba+su_8(g)+(e)\S\}$

PN-e nu-èš sagi ir₁₁ géme é-e ba-šúm

 $\{ba+n+\check{s}\acute{u}m+\emptyset\}$

PN gave a nu'eš-priest, a cup-bearer, and male and female slaves to the temple (Biga, Fs. J. Klein 30 2:9-12 OAkk)

alaĝ-na-ni mu-tu nam-šita-e ba-gub

 $\{Vm+n+tu(d)+\emptyset\}\ \{ba+n+gub+\emptyset\}$

He created a stone figure of himself and stood it up for prayer (Gudea Statue M 2:7-3:2 Ur III)

énsi-ke4 diĝir iri-na-ke4 rá-zu im-ma-bé

 $\{Vm+ba+b+e+\emptyset\}$

The governor performs a prayer (-b-) to the god of his city (Gudea, Cyl B 1:15 Ur III)

anzu^{mušen}-gin₇ gù dúb-da-zu-NE igi-zu-ù a-ba ba-gub

{igi+zu+e}

At your making (your) voice quaver like the Anzu bird, who could stand before you? (Šulgi X 113 Ur III)

im siki-ba-ke₄ gù ba-dé The wool-ration tablet has been called for (TCS 1, 149:3-4 Ur III letter order)

30 gú ésir àh ésir àh tár-kul-la-ke₄ ba-ab-dah-e He shall add 30 talents of dry bitumen to the dry bitumen of the mooring posts (Sollberger, TCS 1, 355:1-4 Ur III)

ur- d ig-alim-ra ù-na-du $_{11}$ 4 dumu-dab $_{5}$ -ba 1/5 še <gur> lugal-ta hé-ne-šúm-mu gur hé-ne-gi-né še hé-ne-tag-tag-ge ù 8 še gur-lugal-àm dumu-dab $_{5}$ -ba bala sun-na-ke $_{4}$ ha-ba-ab-šúm-mu Say to Ur-Igalima:

Let 1/5 royal gur of barley each be given to the 4 'seized citizens'!

Let the gur be verified and all the barley be set aside(?) for them!

Further, 8 gur, royal (gur) of barley let him give to the 'seized citizans' of the old term!

(MVN VII 398:1-9 Ur III letter order, note alternation of -ne- and ba-)

ká-silim-ma-bi ^{giš}al-e bí-in-ra kur-kur-re silim-silim-bi ba-kúr He struck its Gate of Well-Being with a pickax, and for all the lands all their "well-beings" turned hostile (Curse of Agade 125-126 OB)

{bí- resumes -e} {ba- resumes -e}

Ablative ba-

PN-e nam-érim-bi un-ku₅ ìr ba-an-túm-mu

 $\{ba+n+t\acute{u}m+e+\emptyset\}$

When (u-) PN has sworn an oath regarding this, he shall take away the slave (Falkenstein, NSGU 212:14 Ur III, -n- marks the object here in the imperfective)

Agentless Verbs with ba-

mu lugal-la ba-pà A royal oath was sworn mu lugal-la in-pà A royal oath he swore

(legal phrases, cf. Steinkeller, Sales Documents p. 57)

udu ba-ur₄ The sheep were plucked udu nu-ur₄ The sheep were not plucked

(standard Ur III administrative terminology)

mu é ba-dù Year the temple was built

mu lugal-e é mu-dù Year the king built the temple $\{mu+n+d\dot{u}+\emptyset\}$

(standard Ur III year-formula terminology)

10,8.0.0 še gur-saĝ+ĝál é-a ba-si

en-ig-gal nu-bànda é-é-bar-^dbìl-àga-mes-šè-dù-a ì-si

 $\{in+si+\emptyset\}$

608 s.-gur of barley were stored in the house; Eniggal the overseer put it into the E.-storehouse (Nik I 83 1:1-2 & 5:4-7 OS)

REMEMBER: WITH THE EXCEPTION OF ba-, DATIVE PREFIXES RESUME ONLY PERSONAL DATIVE OBJECTS, i.e. NOMINAL CHAINS MARKED BY THE POSTPOSITION -ra

ba- RESUMES "IMPERSONAL DATIVES," NOMINAL CHAINS MARKED BY THE LOCATIVE-TERMINATIVE POSTPOSITION -e

NON-DATIVE ba- CAN FUNCTION ALSO AS AN ABLATIVE MARKER OR AS AN UNTRANSLATABLE SUBSTITUTE FOR A PROSTHETIC /i/ PREFIX, PARTICULARLY IN AGENTLESS "PASSIVE" (OR MIDDLE) VERBAL FORMS

DIMENSIONAL PREFIXES III: COMITATIVE, TERMINATIVE AND ABLATIVE-INSTRUMENTAL

The comitative, terminative and ablative-instrumental prefixes exhibit few phonological difficulties and can be treated together as a unit. See the Verbal Prefix Chain chart for the relative rank ordering of these prefixes within the chain. The case elements -da-, -ta- and -ši- frequently occur together with a preceding pronominal element which represents the object of the case element, usually the head noun of an antecedent nominal chain. Each can, however, also be used without a pronominal element to add an adverbial, directional, dimensional nuance to a verbal idea. As will be seen, the ablative prefix -ra- (and -ri-) is a development from ablative-instrumental -ta- which is used only adverbially, never with pronominal elements. For more on the functions or meanings of these cases see the earlier lesson on the adverbal case postpositions.

PRONOMINAL ELEMENT PARADIGM (§290-293)

The pronominal elements which can occur with -da-, -ta- and -ši- include:

```
Sg 1 mu-/-2-
2 -e-/-Ø-
3p -n-
3i -b-

(Jagersma 2010 §16.2.5 posits glottal stop)
(-e- assimilates to preceding vowels before OB)
(-n- often unwritten before OB)

Pl 1 ?
(me- is predicted)
(-e-ne- has been suggested)
3p -ne-
```

The 1st sg. pronoun is the <u>ventive element</u>, to be dealt with in greater detail both in a separate lesson and under the discussion of the ergative and locative-terminative prefixes in the next two lessons. As expected, the pronominal elements -Ø-, -n-, -b- and -ne- require a preposed prosthetic vowel to render them pronounceable when they stand initially. Thus:

mu-da-ĝen	$\{mu+da+\sqrt{+\emptyset}\}$	He went with me	(no prosthesis)
e-da-ĝen-en	$\{e+da+\sqrt{+}(e)n\}$	I (-en) went with you	(no prosthesis)
ì-da-ĝen	$\{\emptyset+da+\sqrt{+}\emptyset\}$	He went with you	(prosthesis)
ib-da-ĝen	$\{b+da+\sqrt{+\emptyset}\}$	He went with them	(prosthesis)
nu-un-da-ĝen	$\{nu+n+da+\sqrt{+\emptyset}\}$	He did not go with him	(no prosthesis)

COMITATIVE (§441-450)

The usual form of the comitative prefix is -da-. In earlier texts it can also occur bound to a following -b- in the writing -dab₆(URUDU)-. In OS the 3rd pl. personal prefix -ne-da- 'with them' is regularly written with a single sign neda(PI). See Yıldız, Or 50, 92 + n. 17 for the variant dam neda(PI)-ni for dam nitadam-a-ni in Ur-Namma Code §9, and perhaps compare the value /nigida/ for the PI sign. Assimilated forms of -da- include -di- or -dì(TI)-, especially before locative-terminative -ni-; and -dè-, either before or after the 2nd sg. pronoun -e- or before a verb containing an /e/ vowel as in an-dè-e₁₁ (= an-da-e₁₁) in Edzard, SRU 98 2:2 = 99 4:15 (OAkk). Occasionally one also sees a -dè- for no obvious reason, e.g. é dù máš-a nu-mu-un-dè-ĝál 'he could not produce a Build-a-Temple in the extispicy' (Curse of Agade 95 OB).

Most instances of the prefix sequence ba-da- are to be analyzed as the prefix ba-, probably with ablative meaning, plus an ablative-instrumental prefix -ta- whose /t/ has become voiced because of its position between two vowels: ba-da- *ba-ta-. See below and Thomsen §449.

The prefix -da- '(together) with, beside' is certainly to be derived by grammaticalization of the noun da 'side'. Compare the syntax of the noun and infix in the following:

dub énsi-ka-bi da lú-gi-na-ka ì-ĝál
The governor's tablet concerning this (-bi) is with Lugina (lit. at his side)
(Sollberger, TCS 1, 303:6-7 Ur III)

dub ba-ba-ti 720 še gur ur-mes-ra in-da-ĝál-la
The tablet of Babati (concerning) 720 gur barley which is with Ur-mes
(TCS 1, 60:3)
The personal dative -ra here replaces expected -da on Urmes.

Examples of standard comitative uses:

```
ki šà húl-la <sup>d</sup>nin-líl-lá-šè
<sup>d</sup>en-líl <sup>d</sup>nin-líl-da mu-dì-ni-in-u<sub>5</sub>
                                                                                           \{mu+n+da+n+n+u_5+\emptyset\}
To the place that gladdens the heart of Ninlil
he made Enlil ride together with Ninlil
(Šu-Suen royal inscription, Civil JCS 21, 34 12:9-11 Ur III)
dnin-ĝír-sú-ke<sub>4</sub> iri-ka-gi-na-da e-da-du<sub>11</sub>-ga-a šu nu-dì-ni-bal-e
Ninĝirsu shall not overturn what he spoke about with (king) Irikagina.
(Ukg. 34:1 OS) (-ni- resumes -a)
šitim in-da-ĝál [ha]-ab-da-an-sar-re
The builders (who) are with him: let him have him (-n-) write about them (-b-)!
(TCS 1, 197:7-8 Ur III)
u<sub>4</sub> <sup>d</sup>en-líl-le gù zi e-na-dé-a nam-en nam-lugal-da e-na-da-tab-ba-a
When Enlil called faithfully to him and linked en-ship with kingship for him
(Lugalkinedudu of Uruk 2:4-8 OS)
<sup>d</sup>a-nun-na diĝir šeš-zu-ne hé-me-da-húl-húl-le-eš
                                                                                   {hé+mu+e+da+húl-húl+e+(e)š}
May the Anuna, your brother gods, rejoice greatly over you!
(Ur-Ninurta B 46 OB)
<sup>d</sup>nin-líl-da ki ĝíšbun-na-ka zà-ge mu-dì-ni-íb-si-éš
With Ninlil they filled the feasting-place to the limits
(Šulgi R 66 Ur III)
```

In its abilitative function (Thomsen §448) -da- expresses the idea 'to be able':

```
sahar <sup>giš</sup>dupšik-e nu-mu-e-da-an-si-si
You cannot fill earth into (-e) work baskets
(Hoe and Plow 12 OB)

eden ama ugu-ĝu<sub>10</sub> inim mu-e-dè-zu-un
O desert, you can inform my mother who bore me
(Dumuzi's Dream 13 OB)
```

TERMINATIVE (§451-459)

The terminative case prefix is normally written -ši-. In OS Lagaš texts it is subject to an old system of vowel harmony (Thomsen §309) in which /ši/ becomes /še/, written with the ŠÈ sign like the terminative postposition, before verbal roots featuring the vowels /e/ or /a/. This vowel harmony also affects an initial prosthetic vowel, i.e.

```
-šè- preceding roots in /e/ or /a/: e-šè-ĝen, e-šè-ĝar
-ši- preceding roots in /i/ or /u/: ì-ši-šid, ì-ši-gub
```

The basic meaning of -ši- is 'motion to, toward' an end-point:

```
ĝe<sub>26</sub>-e <sup>d</sup>nin-hur-saĝ-ĝá mu-e-ši-túm-mu-un a-na níĝ-ba-ĝu<sub>10</sub>

If I bring Ninhursaĝa to you, what will be my reward?

(Enki and Ninhursaĝ 224 OB)

tukum<sub>x</sub>-bi mu-bé šu uru<sub>12</sub>-dè ĝèštu hé-em-ši-gub

If he has set (his) mind to erasing these lines

(Gudea Statue B 9:12-16 Ur III) (-ši- resumes –e; ur<sub>3</sub> and uru<sub>12</sub> are the same sign)
```

ABLATIVE-INSTRUMENTAL AND ABLATIVE (§460-469)

ABLATIVE-INTSTRUMENTAL -ta

In its ablative use the basic meaning of -ta- is 'removal or separation in space or time'. Spatially it signifies 'away from (a place)', 'out of (an area or container)'. Temporally it signifies 'when, since, after (the time that something happened)'. In its instrumental use it signifies 'by means of, with'.

```
iti-ta u<sub>4</sub> 24 ba-ta-zal
From the month day 24 has passed <u>away</u>
(ArOr 27, 369 No. 17:7 Ur III - a standard dating formula)

1 gu<sub>4</sub>-ĝiš á gúb-bì ab-ta-ku<sub>5</sub>
1 yoke-ox whose (-bi) left horn has been cut off <u>from</u> it
(Westenholz, OSP 1, 101 1:1-3 OAkk)

10 anše apin 2 kù gín-kam du<sub>6</sub>-gíd-da ì-ta-uru<sub>4</sub>
He had Long Hill plowed <u>with</u> 10 plow-donkeys (at a cost) of 2 shekels of silver (M. Lambert, RA 73, 12-14 7:26-29 OS Nippur)
```

The ablative-instrumental prefix is normally -ta-. It can assimilate as -ti- before -ni- as early as the Pre-Sargonic period, and an allomorph -te- is also attested. For example:

```
ki-sur-ra iri-na-ka íb-te-bal (If) she passed out from the boundary territory of her city (Code of Ur-Namma §17 Ur III)
```

ABLATIVE -ra-

-ta- frequently takes the shape -da-, especially following the prefix ba- as mentioned above. By the time of Gudea -ta- may also change to -ra-, although this is not obligatory, when preceded by a dative prefix ending in an /a/ vowel, including ba-, e.g.:

```
ma-*ta-an-šúm > ma-ra-an-šúm He gave it away to me
ì-ra-*ta-an-šúm > ì-ra-ra-an-šúm He gave it away to you
ì-na-*ta-an-šúm > i-na-ra-an-šúm He gave it away to her
ba-*ta-an-šúm > ba-ra-an-šúm He gave it away to them
```

Examples:

^únúmun ma-ra-zi-zi ^únúmun ma-ra-mú-mú Rushes were rising up away from me, rushes were growing up away from me (Dumuzi's Dream 27 OB)

gu₄ ú-gu dé-a-zu gú-mu-ra-ra-ba-al Your lost ox I will recover for you (NSGU 132:4-5 Ur III) {ga+mu+ra+*ta+ba-al}

iti-ta u₄ NUMERAL ba-ra-zal (var. ba-ta-zal) From the month day NUMERAL has passed away A standard date formula; compare the following:

u₄ 2 u₄ 3 nu-ma-da-ab-zal They did not let 2 or 3 days pass (Gudea Cyl A 23:2 Ur III) $\{nu+m+ba+*ta+b+zal+\emptyset\}$

In such forms -ra- never takes an associated pronominal element but functions only to add an ablative – but not instrumental – idea to the meaning of the verb. It is in this sense that -ra- can be referred to as the ablative prefix, as distinct from the ablative-instrumental. -ra- can co-occur with -ta- (as well as with a -da- derived from -ta-) to emphasize the ablative idea, and in a half dozen attestations all three forms were used together for extraordinary emphasis. Compare the additive progression of ablatives in the following Gudea passages:

A final variation appears in OB literary texts, when -ra- > -re/ri- (cf. Thomsen §468) almost always in conjunction with the root bal as in the form im-me-re-bal-bal 'He crossed over them all (the mountains)'. The root should probably be read /bel/ instead of /bal/ in order to account for the unusual assimilation pattern: {m+ba+*ta+bel+bel} > *im-ma-ra-bel-bel > im-me-re-bel-bel. Compare hur-saĝ 7-kam bé-re-bal 'he crossed over the 7th mountain' (var. im-te-bal) (Gilgameš and Huwawa version A 61), which morphologically can hardly represent anything other than {ba+ra+bal}. Compare also the imperative zú bur₅ mušen-ra bal-e-eb (variants bal-a-[..], bal-e-bí-ib) 'Turn away the teeth of the locusts (or birds)!' (Farmer's Instructions 66 OB); and ki-sur-ra iri-na-ka íb-te-bal '(If) she passed over the boundary of her city' (Code of Ur-Namma §17).

Ablative -re/ri- must be distinguished from the 2nd sg. locative-terminative prefix -ri- (see next lesson).

Ablative(-instrumental) prefixes used with non-specific, adverbial meaning, in particular the more emphatic sequences ba-ta-, ba-ra- or ba-da- (< ba-ta-) 'away from, out of', are especially common with verbs of destroying, smashing, killing, finishing, and the like. In such contexts we may suppose that the use of the ablative adds some notion like 'completely, thoroughly, totally' to the verbal idea.

As the Verbal Prefix Chain chart (p. 155) shows, the terminative and the ablative-instrumental (or ablative) prefixes are mutually exclusive; they may not co-occur in a chain. A sentence can certainly feature two nominal chains marked by terminative and ablative-instrumental postpositions, but only one of them can be resumed in the verbal chain, for example: lugal-e uĝnim eden-ta iri-ni-šè ib-ši-in-túm 'The king brought the army from the desert to his city'.

Several grammars have stated that ablative –ta, and terminative –šè, occur only with impersonal nouns. But occurrences with personal nouns while rare are indeed attested.

VOCABULARY NOTE 2

Plural Verbs

A few verbs show complementary stems depending upon whether their subjects (patients) are singular or plural. These verbs are usually referred to as plural verbs. These include:

1) ti(1) 'to live, dwell'

```
sg. ti(l) See P. Steinkeller, SEL 1 (1984) 5, also for lu_5(g) or lu_5(k) pl. sig_7 (or se_{12} or si_{12}) 'to live' said of animals, with the same plural stem sig_7
```

2) gub 'to stand'

```
\begin{array}{ll} sg. & gub(DU) \\ pl. & su_8(g)(DU\&DU), \, \S u_4(g) \, (Gudea) \end{array} \qquad \text{(\& indicates one sign written above another)} \\ \end{array}
```

3) tuš 'to sit, reside'

```
sg. tuš pl. durun(TUŠ), dúr-ru-un, OS durun<sub>x</sub>(TUŠ.TUŠ), Gudea dú(TU)-ru-n(a)
```

Four additional verbs show complementary marû (imperfective) and hamţu (perfective) as well as plural stems. See pages 120f. in the lesson on imperfective finite verbs for their paradigms. Note that the standard grammars treat the verb tuš as one of this second group of verbs, offering the following paradigm:

	hamţu	marû	
sg.	tuš	dúr (so Edzard, Thomsen reads durun)	(In Gudea Cyl B 16:9/18 dú-ru-n(a) is
pl.	durun	durun	apparently marû singular in meaning)

See Edzard 2003, 78 and Thomsen § 270, both following P. Steinkeller, Orientalia 48 (1979) 55f. n. 6, who bases his view on Presargonic and Sargonic forms of the type previously read ì-dúr-rá-a but which are now being read ì-tuš-ša₄-a, as well as on the textual evidence assembled by E. Gordon in Journal of Cuneiform Studies 12 (1958) 48, not all of which is completely convincing. While there may indeed exist some evidence for the Edzard/Thomsen paradigm in later periods, writings which lack a following /r/ that expicitly indicate a value /dur/, for example -tuš-ù-ne or -tuš-ù-bi rather than -dúr-ru-ne or dúr-ru-bi, would at least suggest that in certain instances the stem tuš was used for singular marû as well as hamţu forms. See now P. Attinger, NABU 2010 p. 75-77 for further discussion. Attinger also suggests (p. 76) that the sg. marû form might be /su(š)/.

REMEMBER:

THE COMITATIVE, ABLATIVE-INSTRUMENTAL AND TERMINATIVE PREFIXES CAN BE USED WITH OR WITHOUT PRONOMINAL ELEMENTS:

ib-ta-ĝen 'He went from it' ba-ta-ĝen 'He went away'

ABLATIVE -ra- CAN APPEAR ONLY AFTER ONE OF THE DATIVE PREFIXES ma-, -ra-, -na- OR ba-

THE PREFIX SEQUENCES ba-ta, ba-ra- AND ba-da- LEND AN EMPHATIC ABLATIVE SENSE TO THE MEANING OF THE VERB

CORE PREFIXES: ERGATIVE & LOCATIVE-TERMINATIVE

The locative-terminative prefixes occupy the next to the last rank slot before the verbal root. The perfective (hamţu) ergative prefixes occupy the rank slot immediately before the root. See the Verbal Prefix Chain chart (p. 155) for an overview of their forms and associated occurrence restrictions.

The locative-terminative prefixes generally resume either locative-terminative or locative nominal chains, but in the view of this grammar they are formally related to the ergative prefixes and thus have related functions. The ergative and loc.-term. prefixes consist fundamentally, again in the view of this grammar, of pronominal elements only, and so represent a subset of prefixes rather different in form from the dative, comitative, ablative-instrumental and terminative prefixes, which usually consist of both pronominal and case elements. Since they can convey locational, directional or "dimensional" ideas, they can be broadly classed with the latter as <u>dimensional prefixes</u>, but since they also serve to mark essential core syntactic relations, they will be henceforth referred to as the subset of <u>core prefixes</u> following the terminology convention established by T. Jacobsen (Zeitschrift für Assyriologie 78 [1988] 161-220).

The descriptions of the morphology and uses of the locative-terminative prefixes have been many and varied. The following exposition represents a personal reinterpretation of the evidence and is offered here more as an argument than as a proven statement of fact.

THE FORM OF THE ERGATIVE / LOCATIVE-TERMINATIVE PREFIXES

Compare the paradigms of pronominal elements which mark the perfective agent, the object of the case elements da/ta/ši and dative *a (and *e), and the locative-terminative prefixes, respectively:

		ergative	da/ta/ši	dative	locterm.	
Sg	1	Ø/2	mu	ma	mu .:	¹ -e- in OB, assimilated –V- in Ur III,
	2 3p	O/e^1 n^2	Ø/e n ²	ra na	rı ni	-Ø- earlier 2-n- in OB, often an assimilated –V- or
P1	3i	b	b 2	ba	bi 2	vocalic allophone /y/ especially Ur III (nu-ù-, bí-ì-, ba-a-, ba-e-), and usually -Ø- earlier
гі	2 3p	 n-√-š	? ne ³	me ? ne ³	? ne ³	³ the same element
	ЭР	L		L		the same cromone

In the singular, the four paradigms resolve into two basic patterns, one which occurs before the root (ergative) and dimensional case elements that begin with consonants (da/ta/ši), and another which occurs before the vowels /a/, /u/ and /i/. (The plural forms, several of which are possibly secondary, are omitted from the present discussion.) The vowel in the case of the dative may be the locative marker /a/, seen in the locative postposition, historically reinterpreted and reused within the verb as the case element of the personal dative. What, however, is the origin and signification of the vowels /u/ and /i/ in the locative-terminative series?

Several interpretations have been advanced. The traditional Falkenstein model explains the vowel /i/ as a form of the locative-terminative postposition -e, while mu- is a not further analyzable Conjugation Prefix. T. Jacobsen maintains that both /u/ and /i/ are case elements, the former an archaic element particularly associated with 1st and 2nd person morphemes. There is a simpler and much more interesting explanation. It does, unfortunately, depend heavily upon historical speculation and so must remain merely an hypothesis, but it does help to unify some otherwise isolated features of verbal morphology and syntax.

Just as the ergative and loc.-term. cases are marked by the same postposition, -e, I suggest that the locative-terminative prefixes are, historically, merely the ergative prefixes *used a second time* in the prefix chain. The locative-terminative series is thus originally identical with the ergative series, except that the consonants /m/ and /r/ replace the glottal stop or zero morph of the 1st person and the (problematic and possibly secondary) /e/ of the 2nd person. /u/ and /i/, then, originated historically, most clearly in 3rd person forms, as anaptyctic vowels, serving to separate continguous consonantal elements. It is easier to accept that the locative-terminative prefixes are essentially consonants when one recalls that the pre-radical ergative prefixes, most visibly the stable /n/ and /b/ elements, are portmanteau morphs which carry a morphemic load of not just three but four morphemes: person, gender, number *and also case*.

The following represent all possible sequential combinations of locative-terminative and ergative elements. All are theoretically possible and most are commonly occurring, although a few are unlikely owing to their semantic improbability (i.e. co-occurrence of two 1st or 2nd person markers: "I with regard to me," "you with respect to you").

Like the dative prefixes -ra-, -na-, and -ne-, the loc.-term. prefixes -ri-, -ni-, and -ne- (= dative -ne-) cannot start a verbal form without an initial prosthetic vowel, e.g.:

Why the epenthetic vowel associated with /m/ was /u/ rather than /i/ remains unclear. /u/ occasionally appears as a helping vowel instead of more common /a/ again in connection with /m/ in ventive imperatives, e.g. $\{túm+m\} > túm-ù-um$ 'Bring it here!'. Compare also the (similarly unexplained) contrast of /u/ and /i/ in the possessive pronoun suffix paradigm: 1st sg. - gu_{10} and 2nd sg. -zu contrasting with 3rd sg. -(a)ni and -bi.

The view that /u/ and /i/ originated as non-morphemic helping vowels in the locative-terminative prefix paradigm is reinforced by the vowel deletion pattern of the same possessive suffixes. Just as prosthetic /u/ and /i/ are not required before the vocalic case element *a in the dative prefix paradigm (e.g. {m+a} > ma-, not *mu-a-), so too the final /u/ and /i/ of the singular possessives does not appear when a vocalic grammatical marker immediately follows. Compare the singular possessive pronouns followed by the locative postposition with the corresponding singular dative prefixes:

1	possessive + locative				dative
	ĝu ₁₀ - -zu			-ĝá -za	ma- -ra-
	-(a)ni -bi	+ a + a		-(a)-na -ba	-na- ba-

This deletion phenomenon suggests that /u/ and /i/ additionally served an anaptyctic function in connection with the possessives, permitting the purely consonantal carriers of information, $/\hat{g}/$, /z/, /n/ and /b/ to be pronounced when standing before the consonantal case postpositions -da, -ta, -šè or at the end of a nominal chain.

Of course one is led inevitably to ask whether the possessive suffixes were originally identical with the ergative and locative-terminative prefixes in form and basic function, despite their several phonological differences. I believe that this is indeed the case. /ĝ/ and /m/ regularly alternate in the two major Sumerian dialects, Emegir and Emesal, and /s/ or /z/ have historically changed to /r/ (have become rhotacized) in other languages. Furthermore, a structural parallel is

provided by the Mayan language group. Like Sumerian, the Mayan languages are all basically ergative in nature, and in all Mayan languages the ergative verbal affixes which mark the agent also serve, with some phonological changes, as possessive pronouns when prefixed to nouns. A relationship between the possessive pronouns and the locative-terminative prefixes might be illustrated by such passages as

```
ki-en-gi ki-uri gú bí-i-zi
With respect to (-*e = bí-) Sumer and Akkad you 'raised the neck'
(Iddin-Dagan B 29 OB)

ĝuruš-me-en sila-šè um-è-en šà mu-un-sìg
I, a young man, when I went out to the street the heart pounded there with respect to me (mu-)
(Man and His God 34 OB)
```

where the underlying ideas could as well have been rendered by a construction involving a possessive pronoun: gú-bi e-zi '(Of Sumer and Akkad) you raised their neck'; or šà-ĝu₁₀ in-sìg 'my heart pounded there'. Conversely, compare the following uses of the possessive pronoun with a non-possessive, more general referential force:

```
nam-ti-il níĝ-gig-ga-né hé-na \{\text{h\acute{e}+n+a}_5+\emptyset\} May life be made into his painful thing (i.e. a thing painful to him) (Ur-Namma 28 2:13-14 Ur III) usar ér-\hat{g}u_{10} nu-\hat{s}e_8-\hat{s}e_8 The neighbor does not cry my tears (i.e., tears with respect to me) (Lugalbanda and Hurrum 155 OB)
```

IMPLICATIONS

Apart from the simplicity it brings to the description of the morphology of the locative-terminative prefixes, the theory advanced here is especially productive of new, albeit admittedly speculative, insights into the historical development of the components of the verbal prefix chain and the fundamental relationship and functions of the "two" ergative and locative-terminative cases, both marked by the same postposition -e.

Above all, it helps to explain why a locative-terminative prefix always seems to co-occur with a following ergative prefix, and, moreover, why it always immediately precedes it (most obvious in OB and later when -n- (and -e-) as well as -b- are regularly written). If, historically speaking, the locative-terminative prefixes are merely the ergative prefixes used a second time in the same verbal chain, then it is no wonder that the two series of elements should always appear to occur together and have neighboring rank order slots in the prefix chain.

If the above is correct, as a corollary we suddenly find ourselves in possession of a powerful new analytical tool. If the presence of a locative-terminative element always presupposes the presence of a following ergative element, then in those periods of the language in which only the 3rd impersonal sg. ergative element -b- regularly appears in writing – virtually all pre-OB stages – the presence of a loc.-term. prefix becomes in itself an indication of the presence of some personal agent in the verbal form, although the form makes no distinction among 1st, 2nd or 3rd persons. Thus bí-dù might represent 'I built it there' $\{b+\emptyset+\sqrt{}\}$, 'You built it there' $\{b+*n+\sqrt{}\}$.

Once the use of the consonants /m/ and /r/ as 1st and 2nd sg. pronominal elements had been established, the way was opened to adopt them as well in the development of the dative prefixes ma-, -ra- (and me-). One is tempted to suggest that the 2nd sg. dative prefix -ra- was then re-employed as a new dative postposition -ra. This is highly speculative, but after all the dative is an exclusively personal case, and if an essential notion conveyed by the dative is "(to do something) for the benefit of some person", the recognized primacy of the 1st-2nd person "I - thou" orientation of spoken interchange might have influenced the choice of the 2nd sg. prefix -ra- as a new all-person dative postposition -ra.

Lastly, the use of the 1st sg. locative-terminative marker mu- must have been the inspiration for the use of mu- also as the 1st sg. object of the dimensional prefixes da/ta/ši, as well as for its subsequent development as a purely directional ventive element (treated in the next lesson) with a primary meaning 'in my direction, hither, to me'.

THE SO-CALLED LOCATIVE PREFIX -ni-

Most current scholars speak of a locative prefix -ni- which is not related formally or functionally to the prefixes mu-, -ri- and, according to some, to bí-. This school of thought in fact posits two prefixes, the genderless locative -ni- which is not further analyzable and the 3rd sg. personal locative-terminative -ni- which is analyzable as /n/ plus a locative-terminative /*I/ infixed case marker. Edzard, for example, now calls the former prefix the "locative 2" and the latter the "directive" following J. Krecher. See Edzard 2003 §12.8.21-26 for his arguments.

In this view, locative -ni- resumes the locative postposition -a, while loc.-term. -ni- performs the non-locative core prefix functions that will be described below. Both of these homophonous prefixes are capable of "reducing" to a homophonous -n- before the root, just as the core prefix bí- "reduces" to -b- before the root, though the conditioning factors responsible for such reductions are not always clear. In this scheme therefore, two separate -ni- prefixes can reduce to two separate -n- prefixes which are then indistinguishable from the homophonous ergative -n- prefix.

Further, past scholars have been reluctant to identify bí-, which in practice often also resumes locative nominal chains, as merely the impersonal 3rd sg. counterpart of -ni-, perhaps in view of the tradition of assigning bí- to the Poebel-Falkenstein category of Conjugation Prefixes. In addition, Chicago Sumerologists some time ago voiced the theory that bí- is actually derived from a sequence *ba+I, i.e. a dative prefix plus a locative-terminative case element. The prefix -ri- was likewise to be derived from a parallel sequence *ra+I. In this view, bí- and -ri- do not therefore function strictly parallel to locative-terminative mu- and -ni- as part of the core prefix subsysterm.

Part of the problem lies in an important co-occurrence restriction on the use of bí-. A verbal chain which features a bíprefix may never feature a dative, comitative, ablative-instrumental or terminative dimensional prefix. There is no
such restriction on the use of -ni-. Thus a form like ì-na-ni-in-dù 'He built it there for him' is grammatical, but *ì-nabí-in-dù is not. Why this restriction exists (or how it came about) is a perpetual problem for those interested in Sumerian grammar. I prefer to take it as a given feature, a product of earlier stages in the pre-literate historical development
of the prefix chain about which we will never know. At any rate, if a speaker wished to include both a 3rd sg. locativeterminative prefix and, for example, a dative prefix in a verbal chain, the only permitted choice for the former was the
3rd sg. personal prefix -ni-. Thus, -ni- may technically resume both personal and impersonal nouns. Since locative
nominal chains are common in Sumerian sentences, and since the locative-terminative prefixes -ni- and bí- were both
used to resume locative nominal chains (see below), past scholars came to regard -ni- as a generic, genderless, allpurpose locative prefix and to term it as such, usually disregarding that function of bí-.

To recapitulate, bí- is used only to mark 3rd person impersonal nouns, and a verbal chain featuring bí- will never feature a preceding dimensional prefix. -ni- is used for 3rd singular personal or impersonal nouns, and a verbal chain featuring -ni- may feature a preceding dimensional prefix. Such an apparent violation of the rules of Sumerian gender will seem less bothersome if one maintains that the contrast between the pronominal elements -n- and -b- was fundamentally or originally one of deixis rather than the more rigid personal vs. impersonal distinction seen in the later stages of the language.

From the time of the later Ur III texts, after the pronominal element -n- begins to be written consistently, when preradical -b- and -n- can be seen marking localizing ideas rather than agents, one occasionally observes in certain texts a tendency for -n- to mark locative dimensional objects more often than not. This is doubtless one of the reasons many scholars have believed that the "locative prefix" -ni- reduces, through some unspecified process, to -n- before the root. On the other hand, it is occasionally possible to demonstrate a contrasting preference in particular texts for preradical -b- to resume a locative-terminative nominal chain, which is in stark contrast to the actual regular use of bi- to resume locative chains. There are enough such irregularities in the uses of localizing -ni- and bi- and localizing -n- and -b- to make proving theoretical positions conclusively difficult if not impossible. I believe that the alternative description presented here has the virtues of greater simplicity and linguistic elegance, but it does not represent current opinion and must be regarded for now as an unproved minority position. See further discussion later in the lesson on imperatives.

SYNTAX AND FUNCTIONS OF THE CORE PREFIXES

In practice, the ergative prefixes generally mark the agent in perfective verbal forms, and the locative-terminative prefixes generally serve to resume both locative-terminative and locative postpositions, since the locative case element /a/ was reinterpreted historically as the prefixed personal dative case element and no other verbal element was available to resume locative ideas. Recall, however, that the formally dative prefix ba-normally resumes an "impersonal dative" object *marked by a locative-terminative postposition*. Thus, not all locative-terminative nominal chains are resumed in the verb by locative-terminative prefixes.

But if the ergative (-e) and locative-terminative (-e) postpositions are historically identical, as we maintain, and if the locative-terminative prefixes are technically the ergative prefixes used a second time in the verbal chain, then is it not possible that since the ergative prefixes could apparently also be used to indicate locative ideas, that, conversely, the locative-terminative prefixes could indicate ergative ideas?

By the time of his last descriptions of the verb, Falkenstein had come to the conclusion that in certain instances preradical -n- or -b- markers could only represent locative ideas; the contexts in question obviously precluded the presence of an agent in the sentence. He therefore assumed that a locative-terminative -ni- or bí- could sometimes, unpredictably, lose their vowels, reduce to -n- or -b-, and so look like ergative elements. Such phonological manipulation is unnecessary if one merely takes the evidence at face value.

Just as the nominal postposition -e can mark both an agent (by whom or which an event takes place) as well as a spatial idea (by, at, next to, on(to) a place), why should the ergative prefixes which resume it in the verbal chain not be capable of representing spatial ideas as well? There is no doubt that they indicate agents much more often than locative ideas, but this may be due to the fact that passive-like sentences lacking agents are simply somewhat less common in our texts, or perhaps to a tendency to avoid using them in a spatial sense to minimize ambiguity.

A spatial use of an ergative prefix is most often to be suspected when one encounters an -n- or -b- marker in the verb in a seemingly agentless sentence, together with an otherwise unresumed locative nominal chain, for example:

za-pa-áĝ-ĝu ₁₀ kur-kur-ra hé-en-dul	Let my tumult cover all the foreign lands (Sumerian Letters A 2:10 OB)
ní me-lám an kù-ge íb-ús	Awesome splendor lay against the holy sky (Ur-Ninurta B 30 OB)
im-zu abzu-ba hé-éb-gi ₄	Let your clay return into its abzu! (Curse of Agade 231 OB)
u ₄ ki-en-gi-ra ba-e-zal-la kur-ré hé-eb-zal	Let the Storm which has passed here (-e- < -n-) <u>in</u> Sumer pass there (-b-) <u>upon</u> the foreign lands (Lament over Sumer and Ur 486 OB)

Now to the converse. A locative-terminative prefix such as -ni- or bí- most often marks a locative idea 'in, at, by, on', etc. For example:

éš-dam-ma ba-ni-in-ku₄
She caused her to enter the tavern (Inana and Bilulu 98 OB)

ĝissu-zu kalam-ma bí-lá
You extended your shadow upon the country (Ninurta B Seg. D 13 OB)

It can, however, also mark an agent. But since this represents a second occurrence of an ergative element in the same verb, it follows that such a use is an indication of the presence of a second agent in the sentence, an instrumental agent by whom the primary agent causes the event to occur. The result is a causative construction. For example:

ù ĝ-e ú nir-ĝál bí-gu₇

Princely food was eaten by me (-2-)

by the people (bí-) =

I caused princely food to be eaten by the people =

I caused the people to eat princely food

(Genouillac TCL XV 12:75 OB)

ga nam-šul-la mu-ri-in-gu₇

She (-n-) caused milk of nobility to be drunk by you (-ri-)

(Lipit-Ištar D 6 OB)

When (ù-) I (-Ø-) have had him (-ni-) eat it, {u+mu+ni+2+√+Ø}

when I have had him drink it (Dumuzi and Enkimdu 61 OB)

(elliptical patients <ú> 'food' and <a> 'water' or the like)

The existence of instrumental agents had not been generally recognized in part because Sumerian normally substitutes the dative postposition for the locative-terminative with personal nouns. For example, substituting lú 'man, person' for the impersonal collective noun ùĝ in the first sentence above, the theoretical personal equivalent would be:

lú-ra ú nir-ĝál ì-ni-gu₇ Princely food was eaten by me "to" the man = I caused the man to eat princely food

Examples of a second personal agent indicated by a dative postposition and/or verbal prefix:

énsi-ke₄ en-ig-gal nu-bànda mu-na-gíd The ruler had it (the field) measured by Eniggal the overseer (DP 584 vi 3-6 OS) {nu-bànda+r(a)}

en-an-na-túm-me sa-šu $_4$ gal Enanatum gave the great casting-net of Ninhursag to the Man of Umma umma $_5$ and had him swear by (-ta-) it {i+na+ta+n+ku $_5$ (dr)+ \emptyset } (Ean 1 xvii 21-26 OS, with Lagaš i/e vowel harmony)

Plural intrumental agents are nicely illustrated by the following two Old Sumerian passages. In the first, the text lists individual workers by name and the length of canal built by each, and the summary of irrigation work performed features a verb containing the 3rd pl. personal dative marker -ne-. In the second, the text lists impersonal gangs of unnamed workers by their size and foremen, and the summary of work performed features a verb containing the 3rd collective impersonal dative marker ba-:

šu-níĝin 2 éš 2 gi e aša₅ ambar-ra šul-me nu-bànda e-ne-dù Total 2 cords 2 rods of ditch, Field of the Marsh, Šulme the overseer caused to be constructed by them (-ne-) (DP 657 5:1-4; cf. 617 8:5, 622 10:3, etc.)

 $\{V+ne+n+d\dot{u}+\emptyset\}$

```
Total 30 nindan and 2 rods of ditch, Garmud Field, Eniggal the overseer caused to be constructed by (-*e) the šeš-tuš-a gangs (DP 652 5:1ff.) (ba- resumes -*e)

Some additional examples of the locative-terminative prefix in context:

ma-a-ra ĝiš ma-an-du<sub>11</sub> ne mu-un-su-ub (My spouse) put (his) penis to me, rubbed (his) lips upon me (mu-) (Inana and An B 17 OB, Emesal ma-a-ra & ne = Emegir ĝá-a-ra & nundum)

á zi-da-za <sup>d</sup>utu iri-è [V+ri+Ø+è(d)+Ø] I will make Utu (the sun) come forth upon you (-ri-) at your right side (Eannatum 1 7:6-8 OS)

é kù-ga i-ni-in-dù <sup>na4</sup>za-gìn-na i-ni-in-gùn gal-le-eš kù-sig<sub>17</sub>-ga šu-tag ba-ni-in-du<sub>11</sub>
```

He built the temple with (-ni) silver, he colored it with lapis lazuli, greatly he did decorating to it (ba-) with (-ni-) gold (Enki's Journey 7-8 OB, illustrating the "locative of material")

šu-níĝin 30 nindan 2 gi e aša₅ gàr-mud en-ig-gal nu-bànda šeš-tuš-a e-ma-dù

 $\{mu+n+n+tu\check{s}+\emptyset\}$

 $\{Vm+ba+n+d\dot{u}+\emptyset\}$

^dnin-hur-saĝ-ra du₁₀ zi-da-na mu-ni-tuš She (Inanna) made Ninhursaĝ seat him on her steadfast knees (Ean 1 iv 24-26 OS)

šu ha-mu-ne-bar-re Let him (-Ø-) release them! (TCS 1, 240:9 Ur III, šu - bar takes a loc.-term. indirect object, here -ne-) $\{ha+mu+ne+bar+e+\emptyset\}$

munus-e lú-igi-níĝin-ne ninda e-ne-gu $_7$ The Lady fed the inspection personnel bread (i.e. had them eat) (DP 166 3:6-4:1 OS)

GENERAL CONCLUSIONS

One could speculate that the ergative/locative-terminative was a primitive and highly generic case marker, the first historically to be incorporated into the verbal prefix chain to judge from its position directly before the root. The relative positions of the remaining verbal prefix subsets may illustrate a history of progressive incorporation into the prefix chain: the farther out toward the beginning of the chain, the more recent the time of incorporation and the less "core" or syntactically vital the nature of the information conveyed. As the next-earliest prefixed adverbal marker employed in the verb, the locative-terminative became a general indirect case marker par excellence, a "less marked" case linguistically speaking, and as such it is no wonder that the locative-terminative subset can actually resume any other adverbal postposition and often does, although in the later stages of the language it mainly marks locative ideas.

THE VENTIVE ELEMENT

Following the preformatives, but before any other prefix, comes the rank order position of the ventive element, shown in the Prefix Chain Chart (p. 155) as an upper case M. In the view of this grammar the basic form of this element is /m/, and it is identical with the pronominal element /m/ of the 1st sg. and pl. dative prefixes ma- and me-, the 1st sg. locative-terminative element mu-, and the mu- which serves as the 1st sg. object pronoun of the case markers -da-, -ta- and -ši- as in mu-da-gub 'He stood with me'. Since it is identical with the aforementioned m- and mu- elements, it cannot co-occur with them; it can, however co-occur with all other verbal dimensional or core prefixes.

In keeping with its use as a 1st person element, its basic meaning is "direction towards the speaker, hither, to me." It also has a more general meaning, something on the order of "up, forth, out into view," and in this sense its use is usually so idiomatic and its contribution to the meaning of a sentence so indeterminate that the modern reader is normally forced to leave it untranslated.

While this is disputed by several contemporary Semitists, it is difficult to avoid suggesting that the Sumerian ventive was loaned into Akkadian as the ventive suffix -(a)m / -(ni)m, which likewise has explicit 1st sg. reference "to me" (1st sg. dative), a more general meaning "here, up, forth," and, finally, in many cases idiomatic usages which again are typically untranslatable. It should also be compared with the formative suffix /m/ which appears on the other Akkadian dative suffixes (e.g. $-\check{s}um$ 'to him' vs. accusative $-\check{s}u$ 'him'), though once again the possibility of such a morphological loan into Akkadian is generally disputed.

FORM OF THE VENTIVE ELEMENT

The Sumerian ventive element has two allomorphs: /m/ and /mu/. It appears as /m/ directly before the root, before the prefixes ba- and bi- (i.e. before the pronominal element /b/ followed by a vowel), and directly before the dimensional prefix elements da/ta/ši, i.e. when these function only abverbially without preceding pronominal elements. In the contexts where it appears only as the consonant /m/ it cannot stand alone at the head of a verbal form without an initial prosthetic vowel to render it pronounceable. Additionally, when preceded by /m/ ba- and bi- assimilate as -ma- and -mi- respectively (this modern analysis differs substantially from earlier views, for which cf. Thomsen §337-338). Examples:

m+ĝen+Ø	> im-ĝen	He came here
m+ta+ĝen+Ø	> im-ta-ĝen	He came away
m+ba+ĝen+Ø	> im-ma-ĝen	He came away
m+b+n+ĝar+Ø	> im-mi-in-ĝar	He set up it there(in)
but: nu+m+ĝen+Ø	> nu-um-ĝen	He did not come here

In all other cases, the allomorph /mu/ appears. Additionally, mu- can assimilate as mi- when it precedes a locative-terminative -ni- or -ri- (again Thomsen follows an older analysis, see §336 & 338), and to ma- when it precedes a dative -ra- or -na-. Examples:

m+Ø+ĝar+Ø	> mu-ĝar	I (-Ø-) set it (-Ø) up
m+e+ĝar+Ø	> mu-e-ĝar or me-ĝar (OB)	You set it up
m+n+ĝar+Ø	> mu-un-ĝar	He set it up

m+n+n+ĝar+Ø	> mu-ni-in-ĝar or mi-ni-in-ĝar	He set it up therein (-ni-)
m+n+da+ĝen+Ø	> mu-un-da-ĝen	He came here with her
m+ra+n+šúm+Ø	> mu-ra-an-šúm or ma-ra-an-šúm	He gave it to you
m+r+n+šúm+Ø	> mu-ri-in-šúm or mi-ri-in-šúm	He gave it by means of you
m+ne+n+šúm+Ø	> mu-ne-en-šúm	He gave it to them

Substantially the same rules hold in the imperative transformation, where the chain of prefixes is switched as a whole to suffixed position (discussed later).

The phonotactic rules can be tabulated as follows:

The preceding analysis, based in part on earlier suggestions of Thorkild Jacobsen in Materials for the Sumerian Lexicon IV (Rome, 1956), was elaborated in the early 1970's by D. Foxvog and W. J. Heimpel at the University of California at Berkeley. This particular analysis of the forms of the ventive has gradually become more generally accepted. Many scholars, Thomsen for example, still speak of two separate elements, -m- and mu-, and some believe that im-ma- is a not further analyzable prefix. See the pertinent descriptions in Attinger 1993 and Edzard 2003, also the earlier substantial article on ventive phenomena by J. Krecher in Orientalia 54 (1985) 133-181. J. Keetman has recently essentially defended this analysis in WZKM 105 (2015) 165-88 and N.A.B.U. 2015 (Paris) No. 58.

NOTES ON ORTHOGRAPHY AND USAGE

1) The sequence mu-ub-, whether before the root or one of the dimensional prefixes $da/ta/\tilde{s}i$, is rare, though not unattested. See Šulgi A 47: $u\hat{g}$ sa $g\hat{g}$ -gig-ga u_8 -gin₇ lu-a u_6 du₁₀ hu-mu-ub-du₈ (with var. -du, both for for -du₁₁) 'The Black-Headed Folk, numerous as ewes, performed pleased admiration in my direction'. There are also many instances in

which (V)m- occurs before the root or a dimensional prefix where an expected resumptive -b- is missing from the verbal chain. This phenomenon has lead some scholars to question whether some, though not all, such (V)m- writings conceal a hidden assimilated /b/, e.g. $\{m+b+\sqrt\} > \{mm+\sqrt\} > im-\sqrt$. See Attinger 1993, §178a for discussion, earlier views, and counter-arguments. This is a seductive analysis which may well be correct, but as an argument from silence it is difficult to prove, and it has the theoretical disadvantage of hypothesizing two forms of M with the same phonological shape, unless we posit a long-consonant phonological realization, i.e. imm- \sqrt vs. ordinary im- \sqrt , which is not reflected in the writing. Note in passing that, unlike mu- \sqrt forms, im- \sqrt verbal forms are apparently nonexistent in Lagash I Pre-Sargonic texts and begin to appear regularly only in the time of the Gudea inscriptions. Perhaps the /mu/ allomorph served the same purpose as /(V)m/ in Old Sumerian.

- 2) It is common in older texts for the double /mm/ of the assimilation $\{m+bi\}$ > Vm-mi or $\{m+ba\}$ > Vm-ma- to be written with just a single /m/. Compare the following three sets of parallel passages from Šulgi Hymn D 219/335 (Ur III) and Gudea Cyl A 6:23/7:23 & Cyl A 6:16/7:13-14 (Ur III):
- a) níĝ ki-en-gi-ra ba-a-gu-la kur-ra ga-àm-mi-íb-gu-ul $\{ba+n+gul+\mathcal{O}+a\}$ That which has been destroyed here (-a-) in Sumer I will destroy there (bí-) in the foreign land

níĝ ki-en-gi-ra ba-a-gu-la kur-ra <u>ì-mi</u>-in-gu-ul (= im-mi-) That which had been destroyed here in Sumer he destroyed there in the foreign land

b) šu-nir ki-áĝ-ni ù-mu-na-dím mu-zu <u>ù-mi</u>-sar (= um-mi-) When you have fashioned his beloved standard for him and written your name on it

šu-nir ki-áĝ-ni mu-na-dím mu-ni <u>im-mi</u>-sar He fashioned his beloved standard for him and wrote his name on it

c) é-níĝ-GA-<ra>-za kišib <u>ù-mi</u>-kúr ĝiš <u>ù-ma</u>-ta-ĝar (= um-mi-, um-ma-) When you have altered the seals in your storehouse and set out wood from it

é-níĝ-GA-ra-na kišib bí-kúr ĝiš <u>im-ma</u>-ta-ĝar He altered the seals in his storehouse and set out wood from it

3) The assimilation mu- > ma- before dative -ra- or -na- is optional and unpredictable. Compare the variation in the verbal prefixes of Gudea Cyl A 12:3-7:

sig-ta gi§ ha-lu-úb gi§ NE-ha-an $\underline{\text{mu-ra}}$ -ta-è-dè $\{\text{m+ra+ta+e}(d)+\text{e}+\emptyset\}$ igi-nim-ta gi§ eren gi§ su-úr-me gi§ za-ba-lum ní-bi-a $\underline{\text{ma-ra}}$ -an-tùmu $\{\text{m+ra+n+tùm+e}+\emptyset\}$ Kur gi§ esig-a-ka gi§ esig $\underline{\text{ma-ra}}$ -ni-tùmu $\{\text{m+ra+n+tùm+e}+\emptyset\}$ From above halub and nehan wood will come forth for you, from below cedar, cypress, and juniper will bring themselves in for you, from within the mountain of ebony ebony will be brought in for you

- 4) Some have proposed that the prefix sequence mi-ni-, attested first in the Gudea inscriptions, is not merely an assimilated (allomorphic) form of mu-ni-, parallel to OB mu-ri- > mi-ri- and mu-ra- > ma-ra-, but is to be analyzed in some different fashion. But P. Delnero, in Fs. P. Attinger (OBO 256, 2012) 139ff., has finally shown them to be identical. See Attinger 1993 §177 for an exposition of the previous alternative explanations.
- 5) Since the 2nd person agent marker -e- seems to have developed secondarily during the Ur III period, perhaps by analogy with the fuller paradigms of Akkadian subject pronouns, it is reasonable to assume the that the ventive allomorph mu- which occurs before -e- came into use by analogy with the mu- occurring before the elements -n- and -b-. Further, many passages which show the OB 2nd sg. variant me- < m(u)-e- also offer the standard writing in a duplicate text, e.g. Lugalbanda 106: inim ga-mu-e-da-ab-du₁₁.' I will say a word regarding you' with var. ga-me-da-ab-du₁₁.

6) In reading Sumerian one will encounter a variety of exceptions, neologisms, or pure oddities in verbal prefix sequences in forms featuring the ventive element, not only in literary texts, which are mostly the products of the OB scribal schools, but also in Ur III economic and administrative documents at a time when new orthographic conventions are being established.

FUNCTIONS OF THE VENTIVE ELEMENT

In only a few clearly defined contexts is it possible state that the ventive is definitely or most likely functioning with 1st person reference. Elsewhere its meaning is more or less problematic. The following observations can be made:

1) In the dative prefixes ma- and me- it ALWAYS marks 1st person:

```
ma+n+\check{s}\acute{u}m+\varnothing > ma-an-\check{s}\acute{u}m He gave it to me \check{s}\acute{u}m+me+b > \check{s}\acute{u}m-me-eb Give it to us! (an OB imperative)
```

Care must be taken to distinguish these true dative prefixes from (a) the -ma- infix in the assimilated sequence m+ba > -m-ma- often written with only one /m/ in earlier texts, e.g. ì-ma-, nu-ma-, hé-ma- for im-ma-, nu-um-ma-, hé-em-ma-, etc.; and (b) the me- prefix which contains the 2nd sg. element -e- (a variant of mu-e-), e.g. mu-e-ĝar or me-ĝar 'you set it up'. Only a few attestations of 1st pl. dative me- are known, including the above imperative found in the myth Inana's Descent, while the 2nd sg. me- that is a variant for mu-e- is well attested in OB.

2) When it appears immediately before a dimensional case element da/ta/ši or an ergative prefix it MAY represent a 1st sg. pronominal object or locative-terminative prefix, but most often it doesn't:

```
m+da+gub+\varnothing > mu-da-gub He stood with me m+n+\check{s}\check{u}m+\varnothing > mu-un-\check{s}\check{u}m He had me give it (unlikely) He gave it (here) (usual)
```

3) When it appears before a dimensional prefix featuring an explicit pronominal object it NEVER has explicit 1st person reference:

```
m+ra+n+\check{s}\acute{u}m+\varnothing> mu-ra-an-\check{s}\acute{u}m He gave it (up) to you m+e+da+\varnothing+d\grave{u}+\varnothing> mu-e-da-d\grave{u} I built it (up) with you
```

4) With certain motion verbs it OFTEN conveys the notion "hither, here," frequently contrasting with the prefix ba- in its ablative use:

```
m+ĝen+Ø
                 > im-ĝen
                                          He came here
                                                            (ventive)
ba+ĝen+Ø
                 > ba-ĝen
                                          He went away
                                                            (ablative)
m+ba+gen+Ø
               > im-ma-ĝen
                                          He came away
                                                            (ventive + ablative)
m+n+de_6+\emptyset
                                          He brought it in
                 > mu-un-de<sub>6</sub>
ba+n+de_6+\emptyset
                > ba-an-de<sub>6</sub>
                                          He took it away
```

- 5) Verbs of motion or action are in general more likely to show the ventive than verbs of state, consistent with its fundamental directional character.
- 6) Verbs of state can be given a directional nuance with the addition of a ventive, e.g. \hat{g} ál 'to exist', \hat{g} ál + ventive 'to produce'; zu 'to know', zu + ventive 'to recognize' or 'to (make) learn'.

- 7) In the succinct language of Ur III administrative texts, verbs featuring an agent are more likely to show a ventive, while agentless verbs tend to show a "passive" ba- or a neutral i- prefix. Compare the standard contrast in Ur III year formulas between plus-agent mu-dù $\{m+n+dù+\emptyset\}$ 'he built it' vs. agentless ba-dù 'it was built'.
- 8) Personal dative prefixes seem to attract the ventive, i.e. mu-ra-, mu-na-, mu-ne-, so also with the Akkadian ventive, e.g. *iddinaššum* < *iddin-am-šum* 'he gave to him'.
- 9) The ventive may add a kind of telic nuance, "up to the required or final point, to the point of completion," as, possibly, in the following:

```
ur-lum-ma énsi umma<sup>ki</sup> en-an-na-túm-me e ki-sur-ra <sup>d</sup>nin-ĝír-su-ka-šè mu-gaz {m+n+gaz+Ø}
Enanatum pounded Urlumma, the governor of Umma,
all the way up to the boundary ditch of Ninĝirsu
(En I 29 10:6-11:2 OS)
```

10) When a prefix chain begins with an element which requires a preceding prosthetic vowel, the ventive may perhaps be chosen instead to add a little directional color in place of the neutral, meaningless vowel /i/:

```
mu-na-an-šúm He gave it out to him rather than ì-na-an-šúm mu-ni-in-ĝar He set it up there rather than ì-ni-in-ĝar
```

11) In many other cases the ventive is an added stylistic feature too nuanced for confident translation. Compare the following two passages involving the verb $\langle \text{inim} \rangle du_{11}$ 'to say' where the ventive is untranslatable:

```
e ki-sur-ra <sup>d</sup>nin-ĝír-su-ka e ki-sur-ra <sup>d</sup>nanše ĝá-kam <u>ì-mi-du</u><sub>11</sub> {Vm+b+n+du<sub>11</sub>+Ø} "The boundary levee of Ninĝirsu and the boundry levee of Nanše are mine!" he declared (Ent 28-29 4:24-28 OS)

an-ta-sur-ra ĝá-kam ki-sur-ra-ĝu<sub>10</sub> <u>bí-du</u><sub>11</sub> {b+n+du<sub>11</sub>+Ø} "The Antasurra is mine, it's my border territory!" he declared (Ukg 6 4:7'-9' OS)
```

In the following hymnic passage, the second verb repeats the first with the addition of a ventive adding a nuance that is, again, untranslatable:

```
lugal nam gi<sub>4</sub>-rí-íb-tar<sup>ar</sup> nam-du<sub>10</sub> gú-mu-rí-íb-tar<sup>ar</sup> {ga+(mu)+r+b+tar} O king, I will decree destiny regarding you, I will decree a good destiny regarding you (Šulgi D 384 Ur III)
```

12) Finally, many sets of parallel passages could be adduced to suggest that the ventive adds a mild directional nuance to a verbal form, although confident translation remains difficult. Compare the following earlier and later lines from a continuous narrative:

```
á mu-gur le-um za-gìn šu im-mi-du_8 {Vm+b+n+du_8+\emptyset} He (the warrior) bent out (his) arm and held out a lapis writing-board (Gudea Cyl A 5:3 Ur III)

á mu-gur le-um za-gìn šu bí-du_8-a {b+n+du_8+\emptyset+a} (The warrior) who bent out (his) arm and held a lapis writing-board (Gudea Cyl A 6:3f.)
```

REMEMBER: THE VENTIVE ELEMENT HAS TWO MAIN CONTEXT-DEPENDENT USES:

– 1ST PERSON PRONOMINAL OBJECT OF DIMENSIONAL/CORE PREFIXES

- DIRECTIONAL PARTICLE MEANING 'HITHER' or 'UP, OUT, FORTH'

RELATIVE CLAUSES: THE NOMINALIZING SUFFIX -a

The verbal suffix -a nas been known by several names which describe its apparent functions: the "nominalizing," participializing," or "relativizing" particle. Thomsen refers to it as the Subordination Suffix (§483-491; 512-518). Edzard 2003 recognizes several different homophonous -a suffixes depending upon grammatical context. Current scholarship now generally refers to it as the nominalizing suffix. Quite simply, -a in most cases generates finite or non-finite relative clauses.

ORTHOGRAPHY

In certain periods the writing system often fails to show this -a suffix clearly. For example, in Gudea the participle {ki áĝ+a} 'beloved' will often be written simply ki áĝ, while the OB scribes will consistently write ki áĝ-ĝá or ki áĝ-a. In reaction to this phenomenon earlier scholars have employed sign values which include a final /a/, e.g., áĝa for áĝ, aka for ak, etc. This theory of an "overhanging vowel" (überhängender Vokal) has a basis in fact for a number of signs: such longer allomorphs are actually attested in Akkadian signlists. Whether one uses these longer values is a matter of individual taste or current convention, but they are better avoided unless needed specifically to help clarify meaning. The problem is orthographic rather than grammatical and goes hand in hand with the tendency of earlier texts not to write, for example, the /a/ vowel of the 3rd sg. possessive suffix -(a)ni or of the genitive postposition -ak, e.g., lugal-ni 'his king' or é lagaš^{ki}-ka 'in the temple of Lagash'.

The presence of a following locative postposition -a is often obscured in later orthography by the suffix -a. For example, the temporal clause $\{u_4 \notin Vn+d\dot{u}+\mathcal{O}+a+a\}$ 'on the day he built the house' might be written $u_4 \notin in-d\dot{u}-a$, rather than plene ("fully") as $u_4 \notin in-d\dot{u}-a-a$. In such abbreviated writings it is difficult to decide whether the locative -a has elided to relativizing -a or if the combination of the two markers was perhaps pronounced as a long vowel whose length was no longer regularly indicated in writing.

Finally, when analyzing forms one must be careful not to misconstrue instances of a nominalizing -a followed by the possessive suffix -(a)ni. The /a/ of the possessive normally appears only after consonants. Thus in the phrase é dù-a-ni 'his built house' {é dù+a+(a)ni}, the vowel /a/ should be understood as the nominalizing suffix, rather than the helping vowel associated with the possessive.

GENERAL SYNTAX

The suffix -a occupies the last rank order position after any verbal stem modifiers including the modal suffix -(e)d- and any subject or imperfective agent pronominal suffixes. Thomsen may be correct in stating (§483) that -a is a syntactic particle rather than the mark of a morpheme. One basic function is to transform an underlying finite declarative sentence into a relative or subordinate clause, either finite:

lugal-e é in-dù > lugal lú é in-dù-a

The king built the house The king, the man who built the house,

or non-finite (in which verbal prefixes are for the most part deleted):

é ba-dù > é dù-a

The house was built
The house that was built

A "nominalized" relative clause stands in apposition to a noun, occupying a place in an expanded nominal chain between the head noun (and any adjectives) and following possessive/demonstrative, personal plural and case markers. Put another way, a relative clause is embedded in a nominal chain as a kind of secondary descriptive adjunct. In the following illustration, (a) representing the sentence underlying the relative clause is embedded in the nominal chain (b) to produce the expanded nominal chain (c):

(a) lugal-e é mah in-dù

(b) é mah-bi-ta

From that lofty temple

é mah lugal-e dù-a-bi-ta

From that lofty temple built by the king

Note here that the patient of the sentence underlying the relative clause is deleted to avoid redundancy. (As will be seen later, when the head noun of the expanded chain represents the agent of the relative clause, a virtual relative pronoun is substituted for the nominal agent of the clause.)

In more complex sentences the head noun of the extended nominal chain in question may be difficult to identify immediately, or may even be deleted in certain standard idiomatic contexts, but the basic syntax will always be the same.

A sentence can contain nominal chains representing a subject, an agent, and indirect objects or adverbial phrases, and each type of chain can be modified by a relative clause. In a sentence containing several coordinate relative clauses, -a commonly appears only on the last verb, e.g. á mu-gur le-um za-gìn šu bí-du₈-a 'He who bent out (his) arm and held a lapis writing board' (Gudea Cyl A 6:3f. Ur III). The verb in a relative clause can be finite, with prefixes and suffixes intact, or non-finite, in which most prefixes and suffixes are deleted, the verb becoming essentially a participle.

NON-FINITE RELATIVE CLAUSES

Clauses Modifying a Subject or Patient

1) In its simplest use -a is suffixed to non-finite verbal stems to produce short relative clauses which can often be translated as adjectival past participles, for example:

 \acute{e} šub-ba the house that collapsed > the collapsed house \acute{e} dù-a the house that was built > the built house inim du₁₁-ga the word that was spoken > the spoken word

 $\{du_{11}(g)+a\}$

A subset of such simple participles are those adjectives which sometimes or regularly take an -a suffix like $\{kal(a)g+a\} > kal$ -ga, 'mighty', $\{du_{10}(g)+a\} > du_{10}$ -ga 'good', or $\{sa_6(g)+a\} > sa_6$ -ga 'pleasing'. The difference between a simplex adjective and one featuring a suffixed -a is normally a nuance which escapes us. J. Krecher (see Thomsen §80) has argued that an adjective with a suffixed -a is more "determined" than one without, e.g., lú du_{10} -ga 'the man who is good', i.e. the good man (about whom we're speaking)', as opposed to lú du_{10} 'a good man (in general)'.

2) Non-finite verbal forms can, by definition, feature no prefix other than the negative preformative nu-'not', and so simple participles cannot themselves be marked for the presence of an agent. The relative clause can, however, include a nominal chain which does indicate the agent:

lú-e é in-dù > é lú-e dù-a

The man built the house
The house built by the man

This very common pattern is called the MESANEPADA CONSTRUCTION after the name of an early ruler which illustrates it:

mes an+e pà(d)+a > Mes-an-né-pà-da The Noble Youth Chosen by An

In passing, compare at this point an idiomatic circumlocution, common in Gudea and earlier Lagash royal inscriptions typically read by the beginning student, which often alternates with the Mesanepada Construction in strings of royal epithets. Here a dependent genitive signals an implicit agent (cf. Thomsen §14):

énsi á šúm-ma ^dnin-ĝír-su-ka The governor who was given strength of (and, by implication, by) Ninĝirsu

3) The Mesanepada Construction refers to an nonfinite clause that contains an explicit marked agent. Relative clauses can also feature nominal chains which supply other sorts of information:

é iri-a dù-a the house built in the city lú uri^{ki} -šè ĝen-na the man who went to Ur ní \~g šu-ta \~sub-ba a thing fallen from the hand 'e ur₅-gin₇ dím-ma a house fashioned like this

4) Non-finite imperfective verbal stems featuring the modal suffix -(e)d- (participial forms loosely referred to as infinitives) can be relativized:

```
kù-babbar šúm-mu-dè \{\sqrt{+e+d+e}\} > kù-babbar šúm-mu-da \{\sqrt{+e+d+a}\} to (-e) give the silver that is to be given
```

The resulting relative construction can then feature a final copula:

```
kù-babbar-bi kù-babbar šúm-mu-dam \{\sqrt{+e+d+a+m}\} That silver is silver that is to be given
```

which, with deletion of the redundant head noun of the relative clause, can become:

kù-babbar-bi šúm-mu-dam That silver is to be given

Clauses Modifying an Agent or Indirect Object

1) Clauses modifying an agent tend to be finite, but non-finite examples do exist (cf. Thomsen §515, 517d), for example:

```
en-e a huš in-gi<sub>4</sub> > en a huš gi<sub>4</sub>-a
The lord turned back the raging waters

The lord who turned back the raging waters

(Gudea Cyl A 8:15 Ur III)
```

2) Note the deletion of the agent marker in the preceding resulting relative clause. In all types of clauses featuring ergatives or dimensional indirect objects the adverbal case marker associated with the underlying source sentence is suppressed. Compare a clause featuring a personal dative object in its underlying declarative form:

```
lú-ra kù-babbar ba-na-šúm > lú kù-babbar šúm-ma
Silver was given to the man The man (to whom) silver was given
```

3) A possessive suffix can be used with the implication that the "possessor" is the agent of the clause. For example:

```
lú-ra kù-babbar ì-na-an-šúm > lú kù-babbar šúm-ma-<u>ni</u>
He gave silver to the man
His man (to whom) silver was given = The man to whom he gave silver
```

Compare the related idiomatic use of the genitive in the following phrases from the Gudea cylinders, which occur in contexts that recommend a translation in which the "possessor" is the implied agent:

```
lú é dù-a-ke<sub>4</sub> By the man of the built house = By the man who built the house {dù+a+ak+e} (Cyl A 20:24)

lú é dù-a-ra For the man of the built house = For the man who built the house {dù+a+ak+ra} (Cyl A 15:13)
```

FINITE CLAUSES

In finite clauses verbal affixes are not deleted, and the resulting nominal chains are somewhat more complex, convey more explicit information, and have broader uses than the simpler non-finite constructions. See most recently F. Karahashi, "Relative Clauses in Sumerian Revisited," Fs. Jeremy Black (2011) 167-171.

Simple Restrictive Clauses

A finite relative clause is typically used when two declarative sentences having the same subjects or agents are merely to be linked as main and restrictive relative clauses. In such cases a virtual relative pronoun, usually lú 'man, person' for personal nouns, níĝ 'thing' for impersonals, can be used in the relative clause to avoid repetition of the head noun representing the subject or agent of the new nominal chain. Assume the following two source sentences:

(1) lugal úri^{ki}-šè ì-ĝen The king went to Ur (2) lugal-e é in-dù The king built the temple

Either sentence can be embedded in the other as a restrictive clause, resulting in one of two new sentences:

In both new sentences new nominal chains have been generated, each containing a relative clause standing in apposition to the head noun lugal. Now all nominal chains must end with a case marker, and since the new expanded nominal chain in (c) represents the subject of the main verb i-gen, it stands in the absolutive case:

Since the new expanded nominal chain in (d) represents the agent of the main verb in-dù, it stands, on the other hand, in the ergative case:

(d)
$$\begin{bmatrix} lugal \ l\acute{u} \ \acute{u}ri^{ki} + \check{s}\grave{e} \ V + \hat{g}en + \varnothing + a \end{bmatrix} + e \quad \acute{e} + \varnothing \quad Vn + d\grave{u} + \varnothing$$

Note that in (a) the ergative postposition -e on lugal has been suppressed in the process of generating the relative clause, and that in (b) the ergative at the end of the new nominal chain has elided to the preceding relativizing particle -a, a normal occurrence. Note also the embedded clause of (c) can be abbreviated even further with the elimination of the relative pronoun and the ergative prefix on the verb to produce a simple past participle. Compare lugal ^{gis}mes abzu-a dù-a 'the king who planted the mes-tree in the Abzu' (Enki and the World Order 4 OB)

Temporal and Causal Subordinate Clauses (§489-491)

Finite relative constructions are commonly used with specific head nouns and case postpositions to form standard sorts of temporal or causal subordinate clauses. The structure of these subordinate clauses is slightly different from that of the nominal chains incorporating restrictive relative clauses discussed above. In such a subordinate clause an entire sentence is relativized and stands in apposition to the head noun of the newly generated clause. There is no suppression of internal case markers and no use of relative pronouns.

1) Following are standard combinations of head noun and case marker employed with relativized sentences to generate temporal subordinate clauses:

u₄ SENTENCE+a+a in/on the day that, when u₄ SENTENCE+a+ta from the day that, after, since u₄ SENTENCE+a+gin₇ like the day that, during, while mu SENTENCE+a+a in the year that

mu SENTENCE+a+a In the year that

eger SENTENCE+a+ta after (temporal); from the back of, behind (local) en-na SENTENCE+a+šè until, as long as (temporal); up to, as far as (local)

Examples:

PN u_4 nam-gala-šè in- ku_4 -ra-a (For) PN, on the day he entered the status of gala-priest (-n- resumes –šè) (Fish Cat. 412:2 Ur III)

u₄ dinanna-ke₄ igi nam-ti-la-ka-ni mu-un-ši-bar-ra-a When Inanna extended her eye of life out towards him (Gudea Statue C 2:11-13 Ur III)

en-na ì-ĝen-na-aš {V+ĝen+Ø+a+šè} Until he has come (Grégoire, AAS p. 36 Ur III)

Note that the head nouns u₄ 'day' and eger 'back' are VERY OFTEN idiomatically deleted, resulting in potentially confusing forms such as:

úri^{ki}-šè im-ĝen-na-ta é in-dù After he came to Ur, he built the temple

The confusion is compounded by the tendency of the locative postposition -a to be elided in later texts, at least in writing, to a preceding relativizing -a, resulting in a form which offers no clue as to its underlying structure, for example:

iri-šè im-ĝen-na é-gal-la-ni in-dù When he had come to the city, he built his palace

standing for:

u₄ iri-šè im-ĝen-a-a é-gal-la-ni in-dù When he had come to the city, he built his palace

2) The following combinations of head noun and case marker are commonly employed with a nominalized sentence standing as the rectum of a genitive construction to generate <u>causal</u> subordinate clauses:

bar SENTENCE+a+ak+šè/a because, for the sake of, instead of, in place of mu SENTENCE+a+(ak+)šè because, instead of, about ('to the name of') on the occasion of, it being so that, since

bar lugal ^den-líl-le á šúm-ma ì-me-a ì-zu-a-ke₄-eš {Vn+zu+Ø+a+ak+šè} Because they (the people) knew that he was a king given might by Enlil (Utuheĝal's Annals 54 Ur III)

bar še-bi nu-da-sù-sù-da-ka

Because he could not make this (large amount of) barley grow lushly
(Ent 28-29 2:27 OS) (note the abilitative use of -da-)

mu sipa zi ba-ra-ab-è-a-šè sila daĝal ki-a-ne-di ĝál-la-ba ér gig ì-še₈-še₈

Because it (fate) had made the faithful shepherd go away, bitter tears were being wept in those broad streets where there was (once) dancing (Ur-Namma A 18-19 OB)

[Nu+n+da+sud-sud+Ø+a+ak+a]

{ba+ra+b+è+Ø+a+ak+è}

{ba+ra+b+è+Ø+a+ak+è}

It being so that his beloved Ekur-temple had been destroyed (Curse of Agade 151 OB)

3) Like u₄ or eger in temporal clauses, bar, mu, or nam is often deleted, leaving only the suffixes to help indicate the causal idea. This deletion phenomenon has led, incorrectly, to the describing of the sequence -a-ke₄-eš as an independent adverbial suffix meaning 'because'.

ur-saĝ ug₅-ga ì-me-ša-ke₄-eš Because they were slain heros (Gudea Cyl A 26:15 Ur III) $\{V+me+(e)\S+a+ak+\S\grave{e}\}$

1 2/3 ma-na 1/2 gín kù-babbar PN-e PN $_2$ -ra in-da-tuku-a-ke $_4$ -eš Because PN had (a debt of) 1 2/3 mina 1/2 shekel silver against PN $_2$ (NSGU 117:2-5 Ur III)

TEMPORAL OR CAUSAL ADVERBIAL EXPRESSIONS (§184; 201; 205)

Any of the preceding combinations of head noun and adverbal case marker can be used in simple nominal chains to produce adverbial phrases. With the temporal clauses above, compare, for example, u₄-da udu e-hád siki-bi é-gal-la a-ba-de₆ 'whenever a sheep was cultically pure, and its wool had been taken into the palace' (Ukg 6 1:18'-19' OS). In the following examples, note that a possessive pronoun can replace the rectum in constructions that require a genitive.

u₄-da on the day, at the time, when, whenever, if u₄-ba at that time, then u₄-bi-ta since that time, thereafter, afterwards to the rear of my house (local) eger é-ĝá-šè eger-ĝu₁₀-šè after me (also in the sense "after I die") behind him eger-a-na after the sowing (lit. seed) eger numun-na-šè en-na zú-si-šè until the sheep-shearing (season) (TCS 1, 282:3) bar lugal-za-ke₄-eš because of your king bar-ĝu₁₀-a for my sake bar-zu-šè because of you bar-bi-ta because of this mu-bi-šè because of that (cf. Akk. * $ana \check{s}um > a\check{s}\check{s}um$) (dead animals) for (feeding) the dogs mu ur-gi₇-ra-šè mu ú-gu dé-a-šè because it had gotten lost (Limet, TSU 86 Ur III) nam-bi-šè nam-iri-na-šè nam é dù-da lugal-la-na-šè because of that, therefore
For the Sake of His City (OS personal name)

for the sake of the house that was to be built of (i.e. by) his king

(Gudea Cyl A 17:7)

ĝá-ke₄-éš-hé-ti Let Him Live For My Sake! (Ur III name with an elliptical <nam>) (MVN 11, 163:13)

For adverbs of manner and localizing adverbial expressions see also the lessons on nouns, adjectives and adverbs.

OTHER SUBORDINATION DEVICES

tukum-bi (or tukum) is the primary subordinating conjunction, with the meaning 'if'.

A rare suffix -a-ka-nam 'because of, for the sake of' (= Akk. aššum) can produce causal clauses:

ku₆ ĝá-ĝar-ra-šè nu-mu-túm-a-ka-nam. šubur nu-bànda gú-ne-ne-a e-ne-ĝar Because they (the fishermen) had not brought in (the money) for the (amount of) fish assigned, Šubur the overseer "put it on their necks" (i.e. made them liable for it) (Bauer, AWL 183 2:2ff. OS) (again with an elliptical head noun <nam>?)

An equally rare suffix is -na-an-na 'without, except for' (= Akk. *balum*), see Falkenstein, NSGU II p. 40 ad 10' and C. Wilcke, ZA 59 (1969) 83 n. 78.

PN-na-an-na lú nu-ù-da-nú-a That except for PN no one had slept with her (NSGU 24:10'-11' Ur III) $\{nu+n+da+n\acute{u}+\emph{Ø}+a\}$

In a usage called the "subjunctive" by Thomsen (§484), a subordinate clause is made dependent upon a main clause which features a verb, for example, of speaking, commanding, or knowing. Compare perhaps the use of the Akkadian subjunctive suffix -*u* in oaths.

túg-bi PN-e nu-ù-na-an-šúm-ma-a é ^dnin-mar^{ki}-ka nam-érim-bi in-ku₅ {nu+n+a+šúm+Ø+a+a} That PN had not given him that garment, he swore that oath in the temple of Ninmar (RTC 295:8-11 Ur III)

iti ab-è ì-áĝ-e-a tuku-<bi> nu-áĝ ab-tab-bé-a mu-lugal-bi in-pà That in the month Ab'e he would measure it (the barley) out, and if he has not measured it out (by that time) he will double it, he swore the king's name to that. (AUCT 3, 319:5-9 Ur III)

bar lugal d en-líl-le á šúm-ma ì-me-a, ì-zu-a-ke₄-eš Because they (the people) knew that he was a king given might by Enlil (Utuheĝal's Annals 54 Ur III)

REMEMBER: THE NOMINALIZING SUFFIX -a GENERATES RELATIVE CLAUSES.

A RELATIVE CLAUSE IS ALWAYS EMBEDDED IN A NOMINAL CHAIN, MODIFYING THE HEAD NOUN. AS A KIND OF SECONDARY ADJECTIVE, IT ANSWERS THE QUESTION: "WHAT KIND OF?"

PREFORMATIVES (MODAL PREFIXES)

The preformatives have also been called modal prefixes (Civil, Thomsen), modal profixes (Jacobsen), or modal indicators (Edzard). The latter terms refer to the uses of a sub-class of this class of prefix: the idea of modality in linguistics concerns such notions as obligation, necessity, permission or ability. The older term preformative refers to the rank order of the class: a preformative must always stand as the first element in a verbal chain; no other verbal prefix may precede it. This outermost rank-order position suggests that this class of prefix was the last historically to have been incorporated into the verbal prefix chain; it is noteworthy that these prefixes do not resume nominal chain information like the core and dimensional elements. Since not all members of this rank of prefixes are, strictly speaking, modal elements, the traditional term preformative is retained here. See Thomsen §359-421 and Edzard 2003, pp. 113-127.

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NEGATIVE nu- (la-, li-) 'not' (§359-365)
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nu- negates both finite and non-finite verbal forms. It is written nu- everywhere except before the prefixes ba- or biwhere in all but the earliest periods it usually appears as la- or li- respectively: $\{nu+ba\} > la-ba-$, $\{nu+bi\} > li-bi-$.

Thomsen describes one use of nu as the "negative counterpart to the enclitic copula" (§363), but this minimal form is perhaps better explained as a negated finite copula with a regular deletion of the final /m/, e.g. {kù nu+m+Ø} > kù *nu-um > kù nu 'It was not (made of) silver'. Compare the use of the precative (see below) with a following copula: hé-em or hé-àm 'Let it be!', which can also appear without a final /m/, i.e. hé-a or even just hé. In OB nu- is occasionally employed as a verbal root meaning 'not to be' as in in-nu "it is/was not'. See the lesson on the copula for more discussion.

WISH AND ASSERTION (POSITIVE AND NEGATIVE) (§366-403):

Earlier views

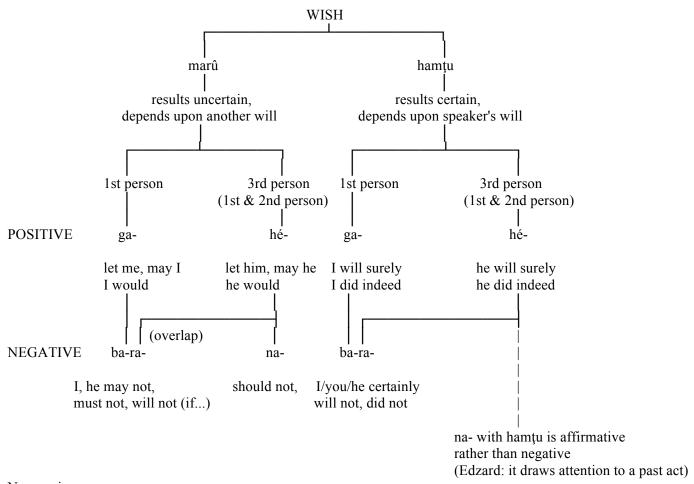
Recent traditional grammatical descriptions have given the following sorts of labels for this group of modal prefixes:

hé- (ha-, hu-)
ga- (gi₄-, gú-)
naProhibitive (or Optative) & Affirmative
Cohortative & Affirmative
Prohibitive (or Negative Precative)
Affirmative (or Volitive or Negative Question)
ba-raVetitive & Categorical Negative

ha- is an (apparently free) allomorph of hé- as early as the Pre-Sargonic period, and a further allomorph hu- appears before the prefix mu- in OB (Edzard 2003 p. 116; Thomsen §394; M. Civil, RA 60 [1966] 15). Similarly, ga- occasionally takes the forms gi₄- before bí- and gú- before mu- in Ur III and later.

Problems have always surrounded the understanding of these prefixes. In older descriptions, ga- is properly 1st person cohortative "let me" and assertive/affirmative "I shall", and ba-ra- is its negative counterpart. ba-ra-, however, can also occur with other persons. Likewise, hé- is properly 3rd person precative "let him" and assertive/affirmative "he will indeed", and na- is its negative counterpart. But both can also occur with other persons. Since the Emesal dialect uses a single prefix dè- (with assimilated variants da- and du₅-) in place of precative hé- for all persons, it may be that main dialect hé- was originally used for all persons and ga- represents a later 1st person development, a phenomenon in line with the gradual historical emergence of 1st and 2nd person forms in other verbal paradigms.

It has been suggested that the meaning of these prefixes may depend in some measure upon whether they occur with marû or hamţu stems. While there is frequent inconsistency, with marû they often seem to express wish, with hamţu they often seem to express assertion. Since the marû/hamţu distinction is one of aspect, this phenomenon might be explained in the following way. The notion of wish combined with that of imperfective aspect could signify that the speaker desires that some event may happen, but cannot yet visualize the completing of the event; it is not in his power to state that the event will definitely happen, and so the verbal form expresses only a wish. When the notion of wish is combined with perfective aspect, on the other hand, the speaker is stating that he both desires the event to happen and that he can visualize the certain completion of the event, whether in the past or the future. In this case, his wish is tantamount to actuality, and the resulting verbal form expresses an assertion or affirmation that the event definitely will take (or has taken) place. The following schema, borrowing features from M. Civil (1968 American Oriental Society lecture handout), summarizes the possibilities. This formulation is very hypothetical.



Newer view

M. Civil has now ("Modal Prefixes," Acta Sumerologica 22 [2000] 29-42) criticized the notion that a modal prefix "has different meanings dependent on the aspect of the verb" (so Thomsen p. 204, citing Edzard and Yoshikawa), stating that, rather, "It is modality that in a great measure governs the aspect of the verb. Thus, for instance, deontic modals naturally tend to have incompletive aspect; one can hardly ask someone to do something already completed or in the past." In his article he presents a new description of the preformatives, based on a modern two-category classification of modality, "deontic" vs. "epistemic." <u>Deontic modality refers to "the necessity or possibility of an act, i.e. expresses the will of the speaker about himself or others." It expresses ideas such as "he has to, ought to, should go; let us go; I will go; may he; would it were; and the imperative Go! or Do not go!" <u>Epistemic modality</u> "expresses the knowledge, beliefs, and opinions of the speaker <u>about his world.</u>" It expresses ideas such as "he is, may be, must be; he can; if he is, although he is." See further F.R. Palmer, *Mood and Modality* (Cambridge, 1986) 18f. and passim.</u>

Civil's categorization is incorporated in part into the following new description which also employs many of his examples:

PRECATIVE (OPTATIVE) hé-

- a) Deontic function:
 - (1) expresses obligation: "one should do it"

na-de₅ ab-ba níĝ kal-kal-la-àm gú-zu hé-em-ši-ĝál The advice of an old man is a very precious thing, you should submit yourself to it! (Instructions of Shurppak 13 OB)

(2) expresses desires, hopes: "let/may it happen"

gú ^{giš}má gíd-da i₇-da-zu ú gíd-da hé-em-mú On your river banks where boats are towed let long grass grow! (Curse of Agade 264 OB)

- b) Epistemic function: depends upon some condition expressed by adjoining clause. This use may be labeled "subjunctive": "if X be true"
 - (1) hé-comes in first clause

še nam-sukkal-e hé-du₇ èn-bi tar-re-dam Whether the barley indeed be fit for the sukkal-office should be checked (Sauren, Genf No. 249:7-9 Ur III)

nar za-pa-áĝ hé-en-du₁₀ e-ne-àm nam-àm If a musician can make his sound pleasant, he is really a musician! (Proverbs 2.57 OB)

a-rá hé-bí-šid zà-bi-šè nu-e-zu {hé+bi+e+šid+Ø} If the multiplication table has to be recited by you you don't know it to its very end! (Dialogue 1, 57 OB)

(2) hé- occurs in both clauses: the condition is counterfactual or a set of possibilities

lú umma^{ki} hé lú kur-ra hé ^den-líl-le hé-ha-lam-me Whether he be a man of Umma or a foreigner may Enlil destroy him! (Entemena 28-29 6:17-20 OS)

lú-bi lugal hé-em énsi hé-em Whether that person be a king or a governor (Šulgi E 78 Ur III)

lú-še lugal-ĝu₁₀ hé-me-a, saĝ-ki huš-a-ni hé-me-a Were that man my king, were that his furious brow! (Gilgamesh and Akka 71-72 OB)

(3) hé-comes in a following clause, describing a consequence

dub-sar gal-zu ^dnisaba-ka-me-en ĝéštu-ga šu hu-mu-ni-du₇-àm Because I am a wise scribe of Nisaba, I am perfect in intelligence (Šulgi A 19, 21 OB)

PROHIBITIVE (Civil: NEGATIVE OPTATIVE) (deontic) na- 'do not, one should/must not'

túg dan₂-dan₂-na-zu na-an-mu₄-mu₄-un You must not wear your well-cleaned clothes! (Gilgamesh and Enkidu 185 OB) (negative advice)

á-ĝu₁₀ ga-sù-sù á-ĝu₁₀ na-an-gig-ge I want to extend my arms, may my arms not get sore! (Lugalbanda II 170 OB) (negative wish)

VETITIVE (Civil: NEGATIVE SUBJUNCTIVE) (epistemic) ba-ra- 'cannot, shall not, must not'

The vetitive follows a conditioning main clause and negates epistemic hé-.

lugal-me-en ní ba-ra-ba-da-te su ba-ra-ba-da-zi Since I am king, (therefore) I cannot get afraid of it, I cannot get gooseflesh at it (Šulgi A 70 OB)

PN dam šà-ga-na-ke₄ ha-ba-du₁₂-du₁₂ ba-ra-ba-dù-dè bí-du₁₁
"Let PN be married by a spouse of her own desire. I would not hinder her," he declared (Edzard, SRU 85 r. 2'ff. OAkk)

 $\{bara+ba+(n)+d\grave{u}+e+d+e(n)\}$

mu-lugal ur-lum-ma-ra lú ba-ra-ba-dù King's oath, no one shall be detained for Urlumma! (ITT 4, 7001:3f. Ur III)

COHORTATIVE ga- 'may I, let me, I want to'

ga- can by pluralized with the 1st pl. subject suffix -en-dè-en. Civil states that cohortatives normally take a perfective stem, but plurals may be imperfective. P. Michalowski has demonstrated that the cohortative can show split-ergative patient marking, which can account for some, though not all, preradical -n- or -b- markers. Preradical -n- or -b- thus mostly indicate either (accusative) direct objects or locative indirect objects.

1/2 gín kù-babbar é-zi-ĝu₁₀ ha-na-ab-šúm-mu ĝá-e ù-ĝen ga-na-ab-šúm Let him give a half shekel of silver to Eziĝu! I myself, when he has come, I will give it (back) to him. (Sollberger, TCS 1, 269:4-7 Ur III) Note the contrast of marû stem with ha- but hamtu stem with ga-, as well as split-ergative patient marking (-b-) in both forms. $\{h\acute{e}+na+b+\check{s}\acute{u}m+e+\emptyset\}$

30 gú ésir àh ésir àh tár-kul-la-ke₄ ba-ab-dah-e ĝá-e ga-na-ab-su He shall add 30 talents of dry bitumen (-b-) to (ba- = -e) the dry bitumen of the mooring posts, and I myself will repay it (-b-) to him. (TCS 3, 355:1-4 Ur III)

kur-ra ga-an-ku₄ mu- $\hat{g}u_{10}$ ga-an- $\hat{g}ar$ I want to go into the mountains, I want to establish my reputation there! (Gilgamesh and Huwawa 5 OB) (-n- resumes -a)

e-ne ga-ba-ab-túm-mu-un-dè-en We want to take that one (-b-) away! (Inana's Descent 343 OB)

eger dub-me-ka a-na-àm ga-ab-sar-en-dè-en What (-b-) is it we should write on the backs of our tablets? (Dialogue 3, 1 OB)
Civil: "consultative/deliberative" function.

ga- can generate frozen nominalized verbal forms, usually of the shape ga-ab- $\sqrt{(g\acute{a}b-\sqrt{in OS})}$ or ga-an- $\sqrt{}$, "used as nomina agentis for transitive and intransitive verbs, respectively" (Civil, JAOS 88, 10). The function of preradial -b-in these split-ergative forms is clear. It usually marks a 3rd person impersonal patient, e.g. ga-ab-sa₁₀ 'I would buy it!' = 'purchaser'. The function of the -n- in ga-an- $\sqrt{}$ forms is more equivocal. If ga-an- $\sqrt{}$ is properly used only with intransitive verbs, then in at least some terms the -n- may indicate a locus, e.g. ga-an-tuš 'I would live here' = 'tenant, resident' (Akk. *waššābu*). If it indicated a patient it could only mean 'I would make him live', a less satisfactory meaning in view of the Akk. translation. The analysis is simpler in the case of ga- $\sqrt{}$ forms, e.g. ga-ti 'I would live!' = 'ex-voto (gift)'. See a full discussion and exhaustive list of examples in G. Selz, Revue d'Assriologie 87 (1993) 29-45.

AFFIRMATIVE na- (§371-382)

Civil calls this a mark of "reported speech" and notes that this prefix is used (a) in the opening passages of mythical or epical texts; (b) in the introduction to certain types of direct speech; (c) in the letter formula ù-na-a-du₁₁ ... na-bé-a (see below). Traditional grammars have recognized two different na- preformatives: prohibitive (negative precative) "may he not" as opposed to affirmative "he will indeed." Jacobsen describes this affirmative na- as a "presumptive volitive," translating approximately "he determined, decided to." Thomsen (§374) states that na + marû = prohibitive, and na- + hamţu = affirmative, though there are exceptions. W. Heimpel has suggested (Journal of Cuneiform Studies 33 [1981] 98), on the other hand, that the apparent negative and positive meanings of na- might be reconciled by regarding na- as capable of indicating a "negative rhetorical question," approximately "did he not?" or "is it not the case that?".

uru^{ki} na-nam uru^{ki} na-nam me-bi na-pà-dè Was not the city indeed here, was not the city indeed here, was not its divine power being revealed? (Nanše A 1 OB)

en-e kur lú ti-la-šè ĝéštu-ga-ni na-an-gub The lord directed his attention to the mountain of the one who is alive (Gilgamesh and Huwawa 1 OB)

ì-ne-eš lú lú-ù-ra a-na na-an-du₁₁ Now, what did one man (decide to) say to the other man? (Enmerkar and the Lord of Aratta 394 OB)

```
PROSPECTIVE ù- (a-, i-) 'when, after' (§409-414)
```

ù- certainly developed via grammaticalization from the noun u_4 'day, time' used in temporal subordinate clauses with the meaning 'when' (u_4 ...-a) or 'after' (u_4 ...-ta). When not written combined with a following consonantal prefix (un-, ub-, um-), the prospective is normally written ù- except before the verbal prefixes ba- or bí- where it may appear as assimilated a- or ì- respectively $\{u+ba\} > a-ba-$, $\{u+bi\} > ì-bi-$ (compare the similar pattern for negative nu- above). ù- always appears in a subordinate clause indicating an event which took place, or will have taken place, before an event described in a following main clause:

```
dumu úku-rá-ke<sub>4</sub> ur<sub>5</sub> SAĜxHA-na ù-a<sub>5</sub> ku<sub>6</sub>-bi lú nu-ba-dab<sub>6</sub>-kar-ré (u+n+ak+Ø) When a poor man's son has made a fish-pond loan, no one shall take away its fish! (Ukg 6 3:6'-9' OS<sub>2</sub> -dab<sub>6</sub>- is an OS writing for -da-ab-)
```

This sentence is functionally equivalent to one featuring an u_4 ...-a temporal subordinate clause: u_4 dumu úku-rá-ke $_4$ ur $_5$ SAĜxHA-na in-ak-a-a. In fact, it is not uncommon for ù- to co-occur in a sentence with a temporal adverb based on u_4 . A nice older example is Ukg 6 1:11'ff.: u_4 -da udu e-hád siki-bi é-gal-la a-ba-de $_6$ 'whenever (lit. on a day when) the sheep was pure, and (so) its wool was taken away into the palace ...' (ù- has assimilated to the following ba-).

Finally, \dot{u} - is occasionally used to generate what have been termed "polite imperatives." This use is most commonly seen in the formula which opens letters: (PN na-bé-a) PN₂-ra \dot{u} -na-a-du₁₁ '(What PN says), do say to PN₂!' {u+na+e+du₁₁+Ø}

CONTRAPUNCTIVE ši- (ša-, šè-, šu-) '(and) so, therefore, correspondingly' (§404-408)

This preformative, which can assimilate to any following vowel, is attested quite early, but it is relatively rare and one can still only guess at its meaning from the contexts. Based on its OB occurrences it seems to indicate that an event takes place as a consequence of a preceding event:

```
na-rú-a mu-bi lú-a nu mu-bé ši-e
en men lum-ma nam-ti i<sub>7</sub>-piriĝ-eden-na
The statue's name is not that of a man, <u>rather</u> its name says:
"(Ninĝirsu) the lord, the crown of Lumma, is the life of the Piriĝ-eden canal"
(Ean 1, rev. 10:23-29 OS)
```

ì-ge-en aratta^{ki} ur adda sar-gin $_7$ šu-ta im-ta-ri ĝá-e u $_4$ -ba ša-ba-na-gúr-e-dè-en In the event that she (Inana) shall push away Aratta as if it were a dog running to carrion, I, on that day, shall therefore have to bow down to him! (Enmerkar and the Lord of Aratta 290f. OB)

FRUSTRATIVE nu-uš- (Emesal né-eš- or ni-iš-) "if only, were it that" (§418-420)

This preformative, considered most likely to be a coalescence of the negative and contrapunctive preformatives *nu-és > nu-uš, is poorly attested and restricted thus far to OB examples. It appears to indicate an unrealizable wish (Jacobsen) or a rhetorical interrogative like "why not?" (Civil):

```
nu-uš-ma-ab-bé-en {<inim> nuš+ma+b+e+n}
If only you could tell me (or: why can't you tell me)
(Gilgamesh Enkidu and the Netherworld 246 OB)
```

šu-zu nu-uš-bí-in-tuku bar-zu né-eš-mi-in-ĝál {nuš+m+b+n+ĝál} If only I could (or: why can't I) hold your hand, if only I could make your body be here

CONJUNCTIVE -n-ga- "and, also, furthermore; and then, consequently" (§322-328)

(Cohen, Eršemma p. 94:36f. OB)

This prefix is normally classed functionally among the preformatives since, like them, it stands before all other prefixed elements and adds secondary information. It may, however, appear following a proper preformative, and so it must be described either as a secondary preformative or merely as a prefix whose rank order slot lies between the preformatives and the ventive element.

In earlier periods in which preradical /n/ is normally not written in verbal forms, -n-ga- can appear simply as -ga-, e.g. $\{V+nga\} > e-ga-$ (with vowel harmony) in OS Lagaš. In OB and later it appears as (i)n-ga- or (i)m-ga-. Like the pronominal element -n-, -n-ga- cannot start a verbal form without the help of a prosthetic vowel.

-n-ga- can serve to link two or more sentences or clauses which normally have the same agents or subjects. It can also be combined with the loaned Akkadian conjunction ù 'and' to express the notion 'either ... or' or 'neither ... nor' as in the following:

sipa-zi gù-dé-a gal mu-zu gal ì-ga-túm-mu {V+(n)ga+túm+e+Ø) Righteous shepherd Gudea knew great things and also brings forth great things (Gudea, Cyl A 7:9-10 Ur III)

alaĝ-e ù kù nu za-gìn nu-ga-àm
This statue was neither (made of) silver nor moreover was it (m

 $\{nu+m+\emptyset\}$ $\{nu+(n)ga+m+\emptyset\}$

This statue was neither (made of) silver nor moreover was it (made of) lapis (Gudea, Statue B 7:49 Ur III)

REMEMBER: NEGATIVE nu- (la-, li-) not

PRECATIVE hé- (ha-, hu-) may he, he should, whether

COHORTATIVE ga- (gi₄-, gú-) may I, I shall

PROHIBITIVE na- may he not

AFFIRMATIVE na- he shall (shall he not?)

VETITIVE ba-ra- can not, must not

PROSPECTIVE ù- (a-, ì-) when, after

CONTRAPUNCTIVE ši- (ša-, šu-) so, therefore

FRUSTRATIVE nu-uš- if only

CONJUNCTIVE (i)n-ga- and, also, furthermore

THE IMPERATIVE

GENERAL CHARACTERISTICS (§495-498)

The imperative can be described as a <u>transformation</u> of an underlying declarative verbal form in which the elements of a verbal prefix chain are shifted as a whole from prefix to suffix position, displacing any underlying verbal suffixes. The relative rank order of the shifted prefix elements is maintained. For example: ba-an-du₁₂ 'He married her' becomes du₁₂-ba-an 'Marry her!'

An imperative form may not feature a preformative, including the secondary preformative -n-ga-. Since imperatives and plus-preformative verbal forms are thus mutually exclusive, the imperative transformation technically may be assigned the rank order of a preformative for descriptive purposes, as has been done in the Prefix Chain Chart (p. 155). Given this restriction, note that an imperative cannot be negated, since negation is accomplished only by means of one of the negative preformatives. A negative command ("Do not!") must therefore be expressed instead as a negated 2nd person declarative wish form using one of the negative preformatives na- or ba-ra- "You may, must not!"

Since the imperative expresses a command, an event visualized by the speaker as one which will indeed be completed rather than a wish which may or may not be realized depending upon outside circumstances, it is always generated using a perfective verbal root. A reduplicated root in an imperative form therefore signifies plurality of a subject or patient or intensification of the verbal idea.

An imperative is an inherently 2nd person singular form; it takes no explicit 2nd person subject or agent marker. It may, however, be pluralized by adding the 2nd person plural subject marker -nzen to the end of the shifted prefix chain. This plural marker is written -zé-en, but it can also appear as -Vn-zé-en, -Vb-zé-en or -Vm-zé-en when the context requires a preceding /n/ /b/ or /m/ element. The precise morphological significance of these variants is not always immediately clear.

A then intriguingly new analysis of the subject/object phenomena in the imperative was advanced by P. Michalowski (JCS 32 [1980] 86ff.), who saw in them a manifestation of Sumerian <u>split ergativity</u>. In his description, imperatives, also cohortatives, show a nominative/accusative marking scheme like declarative marû forms, rather than the ergative patient/agent opposition found in declarative hamtu forms, and the 3rd sg. pronouns -n- or -b- here thus mark (accusative) objects rather than agents, although the presence of a 2nd person agent is of course implied by the presence of an object marker. Thus in the form zi-ga-ab 'Make it rise!' -b- marks the direct object "it"; the corresponding personal form would then be zi-ga-an 'Make him rise!' This is an attractive hypothesis, but it must contend no less with inconsistencies in the choice of -n- versus -b- in occurring forms in the OB texts from which most of our examples are drawn, and it cannot as yet be considered as fully demonstrable in all cases. See the interesting criticism of Edzard, 2003, p. 90f., who has a different interpretation of the -n/b- pronominal data and who concludes, contrary to present opinion, that "the question of 'split ergativity' does not seem to be of any question in Sumerian."

No explicit suffixed subject/patient markers (i.e. -en, -enden, -enzen, -eš) are permitted in imperative forms, and the patients/objects one encounters are normally only those marked by the 3rd sg. elements -n- or -b-. The 3rd pl. element -ne- seems theoretically possible but is not attested, to my knowledge. Thus it is possible to use an imperative to say "Marry her!" but impossible to use an imperative to say "Marry me!" For non-3rd sg. person patients one must use a precative (hé-) or cohortative (ga-) construction, e.g. "Let him marry me!"

MINIMAL IMPERATIVES (All examples to follow are drawn from actual text passages.)

The most basic, and commonest, imperative forms are very short, consisting only of a hamţu root followed by a vowel, usually /a/, very rarely /e/. Since an imperative is a finite verbal form, one that is localized in time and space, one can view such a form as a transformation of a minimal declarative form which must be marked by an otherwise nonsignificant anaptyctic vocalic prefix in order to make the form finite; thus tuš-a 'Sit!' {tuš+V} corresponding formally to an agentless declarative form i-tuš 'He sat' {V+tuš+Ø}. This final -a has been explained as an imperative marker (old), a

development of the "Conjugation Prefix" i- (more recently), or in some cases a sort of aspectual morpheme (M. Yoshi-kawa, ZA 69 [1979] 161ff., see Thomsen §497). Since minimal imperatives of this sort are not marked for patients (direct objects), they will generally convey intransitive ideas, e.g.:

```
      ĝen-na (rare: ĝen-né)
      Go!

      zi-ga
      Rise!
      {zi(g)+a}

      silim-ma
      Be well!

      šèĝ-ĝá
      Rain!

      tuš-a
      Sit!

      e<sub>11</sub>-dè
      Descend! (Dumuzi & Geštinana 4ff.)
      {e<sub>11</sub>(d)+e}
```

The choice of the final vowel in these minimal forms may to some extent be ascribed to geographical dialect. Line 19 of the Nippur version of the OB Sumerian-Akkadian bilingual du/gen grammatical paradigm OBGT VII (MSL IV 89-99) shows gen-na = a-[lik] 'Go!' while the Ur version (UET 7, 101+) shows gen-né = a-lik. The Ur version also omits six sections of the Nippur version featuring verbal forms beginning with the prefixes an- and al-. Nippur, the find-place of the majority of the preserved OB literary tablets, lies on the northern periphery of ancient Sumer, while Ur lies in its southern heartland. The use of /a/ as an initial prosthetic vowel is much more common in Nippur and other Akkadian-dominated northern sites, and since a large number of our source texts come from Nippur, the religious and cultural heart of Sumer and the site of a major Old Babylonian scribal school, it is no wonder that the preferred suffixed vowel of extant imperatives should likewise statistically turn out to be /a/.

Imperatives are frequently marked only for the presence of a patient (object), using one of the 3rd sg. pronominal elements -n- or -b-, and the same vowel /a/, or rarely /e/, is required to separate the root from the following consonantal elements. In the following examples /a/ appears between the root and a following final object element /b/:

zi-ga-ab	Make it rise!	$\{zi(g)+b\}$
zi-ra-ab	Erase it!	$\{zi(r)+b\}$
húl-la-ab	Make them happy!	{húl+b}
en-nu-ùĝ ak-ab	Perform the watch!	$\{a_5(k)+b\}$
bal-e-eb	Turn them away!	{bal+b)

In other cases no anaptyxis is needed, following the normal phonotactic patterns of the prefix chain as described in earlier lessons, for example:

ĝar-bí-ib	Set it there!	{gar+b+b}
sar-bí-ib	Make it run from there!	{sar+b+b}

An imperative is not always overtly marked for a patient, even though one may be syntactically present in the sentence:

gul-a	Destroy it!	for gul-la-ab
de ₆ -a	Bring it!	for de ₆ -ab
du ₁₁ -ga-na	Say it to him!	for <inim> du₁₁-ga-na-ab</inim>
di-ĝu ₁₀ ku ₅ -dè	Decide my case!	for ku ₅ (dr)-dè-eb (Proverbs 9 E 4)

VENTIVE IMPERATIVES

An imperative which features only a suffixed ventive element, $\{\sqrt{+m}\}$, corresponding to a declarative form $\{m+\sqrt{}\}>$ im- $\sqrt{}$, takes one of three forms: $\sqrt{}$ -um (rare), $\sqrt{}$ -àm (more common), or $\sqrt{}$ -ù (most common). The last form, which seems merely to illustrate the common tendency for nasal consonants to drop in final position, is traditionally, but too simplistically, explained as an assimilated or variant form of an "imperative suffix" -a or -e. Several observations on the phonological shapes of these minimal forms are in order.

The use of /u/ as a anaptyctic vowel in association with the suffixed ventive element is in line with its appearance instead of epenthetic /i/ in the declarative ventive prefix form mu-, i.e. $\{m+n+\sqrt\}>$ mu-un- \sqrt rather than *mi-in- \sqrt parallel with $\{b+n+\sqrt\}>$ bí-in- \sqrt . Compare also the /u/ associated with the 1st and 2nd sg. possessive pronouns - $\hat{g}u_{10}$ and -zu rather than the /i/ of 3rd sg. -(a)ni or -bi Why the sound /u/ is preferred to /i/ in connection with an /m/ element (sound) remains an open question. (T. Jacobsen (AS 16 [1965] 71ff.) theorized that /u/ was an obsolete localizing case marker which he called the "tangentive" used in connection with 1st and 2nd person referents, a view not generally accepted.) The writing -àm instead of -um appears to be an OB convention, perhaps a neologism in which a reinterpreted "imperative suffix" -a takes the place of an epenthetic vowel, to be analyzed as $\{\sqrt{+a+m}\}$ rather than $\sqrt{+Vm}$, possibly influenced by the phonological shape of the corresponding Akkadian ventive suffix -am.

In the following examples of minimal ventive imperatives note the absence of expected patient markers. One explanation for this phenomenon is that resumptive elements in the verbal chain are at bottom always optional. Another is that at least some final /m/ markers might actually stand for an assimilation of $\{m+b\}$, in line with the current suggestion of some scholars that a declarative form like im- $\sqrt{}$ can actually stand for $\{Vm+b+\sqrt{}\}$, orthographically indistinguishable from im- $\sqrt{}$ standing for simple $\{Vm+\sqrt{}\}$.

túm-ù-um de ₆ -um zu-àm te-(e)-àm	Bring him in! (ZA 97, 4:10) Bring it here! Learn it (completely)! Approach there!	expected: túm-mu-un expected: de ₆ -mu-ub expected: zu-mu-ub
ĝen-ù	Come here!	rare writing
ĝen-nu	Come here!	rare writing
ĝe ₂₆ -nu	Come here!	usual writing (old reading: ĝá-nu)
ĝe ₂₆ -nu-um-zé-en	Come (pl.) here!	note reappearance of the /m/ before the plural suffix
gi ₄ -ù	Come back here!	
ù-sá kul-ù	Sleep, hurry here!	
é ĝál-lu	Open up the house!	expected: ĝál-mu-ub
i-lu ĝar-ù	Set up a wail!	expected: ĝar-mu-ub
sud-rá-áĝ zi-bu-ù	Light, rise up!	Emesal for zi(g)-gu-u(m)

A form such as ur_{11} -ru 'Plough it!' (PAPS 107, 505:31) is problematic. Syntax demands a patient marker -b. Is the form a minimal ventive $\{ur_{11}+V+m\}$ with deletion of /m/ or just a minimal imperative $\{ur_{11}+V\}$ with assimilation of a final vowel to the vowel of the root? Cf. ^{túg}bar-dul₅ tuk₅-ù 'Weave your cloak!' (Winter and Summer 211). In both instances, which involve a root vowel /u/, a ventive seems semantically difficult unless it adds a telic nuance "completely, to the very end."

With the above, contrast the following ventive forms which are explicitly marked for the presence of a patient, albeit not always with the correct choice of -n- vs. -b-. Note that before the element mu-, as with ba- or bí-, any <u>Auslauts are</u> suppressed, since an amissible consonantal Auslaut never appears when another consonant follows:

túm-mu-un	Bring him in!	{túm+m+n}
túm-mu-un-zé-en	Bring (pl.) her here!	{túm+m+n+zen}
gi ₄ -mu-un	Make him return here!	$\{gi_4+m+n\}$
è-mu-na-ra-ab-zé-en	Make (pl.) it come out for him!	$\{\dot{e}(d)+m+na+ra+b+zen\}$
šu ba-mu-u ₈	Release (the hand from upon) me!	$\{ba(r)+m+n?\}$
mu lugal pà-mu-ni-ib	Make him (-ni-) swear a royal oath!	$\{p\grave{a}(d)+m+n+b\}$
íl-mu-ub	Lift it up! (Proverbs 22, 183)	$\{il+m+b\}$

In OB and later texts a superfluous vowel is sometimes written following the root even when there is no phonological justification for it, reflecting either a misunderstanding of the proper use of an epenthetic vowel or an inappropriate application of the imperative formative vowel -a or -e used in minimal imperatives.

húl-húl-la-mu-un-da Rejoice greatly over him! (Inana E 19 OB) (hamtu reduplication)

(OBGT VII 10 & 105, Ur version)

zú bur $_5$ mušen-ra bal-e-bí-ib (vars. bal-a-[], bal-e-eb) Turn away there (in the field) the teeth of the locusts/birds! (Farmer's Instructions 66 OB)

šubur-a-ni kur-ta e₁₁-dè-mu-na-ab Make his servant come up from the netherworld for him! (Gilgameš Enkidu and the Netherworld 240 OB)

Cf. the vowel of the minimal imperative kur-šè e₁₁-dè in Dumuzi and Geshtinana 4-10, and note the gender error -b- for -n- unless "servant" here is being interpreted as an impersonal noun, usual with slaves.

In carefully written texts, however, the presence or absence of a epenthetic vowel following the root can signal a difference in meaning, primarily in connection with a following element -ma-. Just as a 1st sg. dative prefix ma- can start a declarative form without a preceding prosthetic vowel, e.g. ma-an-šúm 'he gave it to me', so too a corresponding 1st sg. dative imperative will properly show no epenthetic vowel between the root and following -ma-, and, as in the preceding section, any Auslaut is suppressed before this dative prefix. On the other hand, when a suffixed -ma-represents a shortened writing of the impersonal dative chain -Vm-ma- < {m+ba}, an epenthetic vowel will properly appear between the root and the chain, corresponding to the prefix sequence {m+ba} > im-ma-; and in this case, any Auslaut will appear. The following first three examples show 1st sg. dative ma-, the last three ventive plus ba-:

```
\{d\hat{u}+ma+(b)\}
é-ĝu<sub>10</sub> dù-ma
Build my temple for me!
(Biga, Fs. Klein 30 1:12 OAkk)
10 gín kù-babbar šúm-ma-ab
                                                                                                   {šúm+ma+b}
Give me 10 shekels of silver!
(Falkenstein, NSGU 20:7 Ur III)
tukum-bi šu mu-ri-bar-re mu-zu du<sub>11</sub>-ma-ab
                                                                                                \{du_{11}(g)+ma+b\}
If I release you (-ri-), tell me your name!
(Proverbs 5 D 5 OB)
ki-tuš du<sub>10</sub>-ga-ma-ni-íb
                                                                                         \{du_{10}(g)+Vm+ba+n+b\}
Make (your) domicile pleasant there!
(Gudea Cyl A 3:1 Ur III)
im-ma-al gú i<sub>7</sub>-da-ke<sub>4</sub> i-bi-zu ĝar-ra-am-ma
                                                                                                   {gar+Vm+ba}
Set your eye upon the wild cow of the riverbank
(Kramer, Eretz-Israel 16, 142*:30 OB Emesal)
ĝen-àm-ma
                   = at-la-kam 'Come (sg.) away!'
                                                                                                   {\hat{gen+Vm+ba}}
ĝen-àm-ma-zé-en = at-la-ka-nim 'Come (pl.) away!'
                                                                                           {\hat{gen+Vm+ba+(n)zen}}
```

Clear scribal errors do creep into texts. In the following literary passage, while four textual duplicates write a correct 1st sg. dative prefix (followed by an ablative -ra-), one writes a nearly homophonous but erroneous {m+ba} sequence:

```
ní-zu ba-ma-ra (incorrect var. ba-àm-ma-ra) {ba+ma+*ta, var. ba+Vm+ba+*ta} Give away to me your terror! (Gilgameš and Huwawa version A 144 OB, with ablative -ra-)
```

With Vm+ba forms compare the following examples illustrating the use of the prefix ba- (in its ablative function) without a preceding ventive element or helping vowel:

dab₅-dab₅-ba-ab Take them all away! pl. reduplication + patient

LOCATIVE CONSTRUCTIONS

When one of the pronominal elements /n/ /ni/ /b/ or /bi/ is not being used in an imperative to mark a patient (direct object) or second agent, it can mark a locus, generally but not always resuming either a locative or locative-terminative postposition.

$\sqrt{+b}$ and $\sqrt{+bi}$

In the following passages the use of /b/ and /bi/ is unremarkable:

gen-nu dumu-gu₁₀ ki-ta-gu₁₀-šè tuš-a-ab

= alka mārī tišab ina šapliya

Come here my son and sit below me!

(Examenstext A 3 Neo-Assyrian)

lú-kúr iri gibil-a al-dúr-ru-ne-eš ki-tuš-bi-ta sar-bí-ib

Chase away from their dwellings the enemy living in the new city!

(Letter Collection B 5:11-12 OB)

Compare however the following parallel passages. In the first line a cohortative verb features a preradical -b- that resumes a locative-terminative postposition, while in the following line the corresponding imperative features a -bi suffix that resumes a locative-terminative postposition elided to the suffix -zu.

```
šà-ge guru_7-\hat{g}e_{26} an-ta ga-ab-gi_4 {ga+b+gi_4} 

šà-ge guru_7-a-zu an-ta gi_4-bi {gi_4+*b} 

Let me go down to wherever my heart desires! 

Go down to wherever your heart desires! (Lugalbanda II 176/193 OB)
```

-bi clearly serves the same purpose as the -b- prefix in the earlier line, but why is the imperative not simply gi₄-ib as predicted by the analysis employed in this grammar? The latter form, though rare, does exist; compare the fragmentary OB grammatical text Ni 4143, 9'-10' (J. Black, Studia Pohl Series Maior 12, 152):

```
é gú gi<sub>4</sub>-ib = bi-ta-[am ...] Return the house to the riverbank! gú ga-ab-gi<sub>4</sub> = am-ša/ta<sup>?</sup> [...] I will return it to the riverbank!
```

A further question is why the writing in these $\{\sqrt{+bi}\}$ forms is BI rather than the BI₂ which is the usual prefix writing in declarative verbal forms? Perhaps to avoid confusion with the common dè and ne readings of the BI₂ sign? In the following passage the first (causative) imperative shows a -b- marking a patient, but the second (intransitive) imperative again shows a -bi writing that resumes a locative postposition:

u₄ gig-ga u₄ gaba-zu zi-ga-ab u₄ é-za gi₄-bi O bitter storm, O storm raise your front, O storm return to your house! (Lamentation over Sumer and Ur 483) Compare also line 83 of The Farmer's Instructions, the main Nippur version and the version of text C_3 (Civil, Farmer's Instructions p. 49), where the three variants of the second imperative leave its morphological analysis somewhat equivocal:

```
šid-bi du<sub>6</sub>-ul-(la-)ab zar-re-éš nú-a-ab (var. nú-bí-[ib<sup>?</sup>]

šid-bi du<sub>6</sub>-lá zar-re-éš nú-bi

Assemble a sufficient number(?) for it and lay down (the grain) in sheaves!
```

Perhaps the OB scribes reserved -b primarily for marking patients, while -bi was employed specifically to mark loci. It seems unlikely that -bi was employed for reasons of euphony, i.e. a more pleasing sounding /gibi/ rather than /gib/. The orthographic phenomenon incidentally appears again in the OB grammatical texts, cf. the bilingual OBGT VI 56/105 (MSL IV 81-82):

```
\hat{g}ar-bi = \check{s}ukun 'Place!' \hat{b}i-\hat{g}ar = (ta\check{s}kun) 'You placed'
```

More interesting are the two contiguous forms OBGT VI 56-57 (MSL IV 81):

```
\hat{g}ar-bi = \check{s}ukun 'Place!' \hat{g}ar-ni = (blank) ditto
```

Here -bi and -ni are given no explicit Akkadian grammatical correspondences such as accusative suffixes or causative infixes. This would make sense if the OBGT compiler was aware that in such minimal forms the -ni and -bi elements were properly used in this period only to mark loci, a use not capable of being expressed through Akkadian verbal morphology. Contrast the minimal imperative \hat{g} ar-ra which is given the same minimal Akkadian correspondence $\hat{s}ukun$ 'place!' at the beginning of the paradigm (OBGT VI 1). Note also that elsewhere in the \hat{g} ar paradigm the epenthetic vowel is used correctly in imperatives. $\sqrt{-bi}$ and $\sqrt{-ni}$ forms are in this respect once again anomalous.

$\sqrt{+}$ n and $\sqrt{+}$ ni

A form like $\sqrt{\text{-mu-un}}$ in which /n/ marks a patient (direct object) offers no orthographic or analytical difficulties, likewise a form like $\sqrt{\text{-ni-ib}}$ in which /ni/ clearly marks a locus or a second agent. But the frequent OB minimal imperative form $\sqrt{\text{-ni}}$ raises questions, as does the fact that it is difficult to find an occurring OB or earlier verbal form $\sqrt{\text{-Vn}}$ in which /n/ marks a locus.

In the past $\sqrt{-n}$ has usually been read $\sqrt{-1}$, in which the -i was understood as the "Conjugation Prefix" i- that has not altered to become the "imperative suffix" -a. See discussion and examples of A. Falkenstein, Zeitschrift für Assyriologie 49 (1950) 132. So analyzed, $\sqrt{-1}$ is not marked for the locative.

On the other hand, in Song of the Plowing Oxen 143/144 gu₄ ĝen-a ĝen-a ĝen-a gu ĝar-ni 'Go oxen, go, put the neck in the yoke!' the editor M. Civil also read ĝar-ì, but understood -ì as a locative-terminative infix, a vocalic element symbolized by him as -*I- (see AOAT 25, 90), although he admitted that a locative -ni suffix is also possible. We are hampered in our analysis of this passage not just by the absence of an -ib suffix marking the object, but also by the lack of a predicted epenthetic vowel after the root to yield a form ĝar-ra-ni-ib which would be fully correct for this context. Civil's solution is an option, but it is undeniable that it is -n- or -ni- that regularly resumes a locative in declarative verbal chains.

Conceivably pertinent is the common phenomenon of the loss of /n/ and its replacement by -ì seen sporadically in Ur III texts. For loss of final /n/ cf. nu-ù-gi-ì for nu-un-gi-in 'he did not verify it' (NSGU 213:22,28-30); ab-gi-ì 'he verified it' (PBS 9, 86:7 apud Edzard, SRU p. 123); ìr nu-me-ì (for nu-me-en) bí-du₁₁-ga 'that he declared "I am not a slave"' (NSGU 34:11). The loss of medial /n/ is also common throughout the Ur III period. Cf. ú-gíd-da bí-ì-mú 'he made long grass grow there' (Šulgi D 338); tum-ma-al^{ki}-e pa bì-i-é (var. bí-in-è) 'the Tummal he made replendent' (passim in the Tummal Inscription). Initially, the prefix ì-√ for ergative in-√ is ubiquitous until late in the Ur III

period. Could gar-i thus be an orthographic convention for a locative form gar+n > /garin/, perhaps with a deleted /n/ and compensatory vowel lengthening: /gari:/?

A better solution probably lies in identifying those rare OB passages which do write an expected epenthetic vowel between the root and the -ni suffix, viz.

```
lú še-numun ĝar-ra-za igi-zu ĝar-ni (var. ĝar-ra-ni)

Keep your eye on (-a) the man who sets out the barley seed
(Farmer's Instructions 49 OB)

dšára dumu ki-áĝ dinana-gin, ti zú-zu-a u4-gin, è-ni (var. è-a-ni)

Like Šara the beloved son of Inana shoot forth your in barbed arrows like daylight!
(Lugalbanda and Enmerkar 142-143 OB)

dézinu ní-za ĝéštu a5-ni (var. ĝéštu-ga-a-ni)

Ezinu, pay attention to (-a) yourself!
(Sheep and Grain 163 OB)

The odd syllabically written variant /ĝéštug ani/ argues strongly against a reading a5-ì in the main text.
```

While not dispositive, such evidence favors a reading -ni in contexts featuring a locative indirect object, despite the uncomfortable lack of expected epenthetic vowels.

The following examples of $\sqrt{-n}$, all OB, are all in transitive or causative contexts featuring oblique objects, and all are missing a final /b/ and an epenthetic /a/:

```
dur-dnin-urta giš sudun gú-ba ĝar-ni
Place the yoke onto (-a) their necks, Ur-Ninurta!
(Ur-Ninurta A 43)

ù-na-a-du<sub>11</sub> silim-ma-ĝu<sub>10</sub> šu-ni-šè ĝar-ni
Place my letter of greetings into (-šè) her hand!
(Message of Ludingira 7)

še guru<sub>7</sub>-e ĝar-ni
Place the barley upon (-e) the grain-heap!
(OBGT III 25, MSL IV 69)

im nam-ti-la-ke<sub>4</sub> du-rí-šè nu-kúr-ru mu-bi gub-ni
Make its name stand on (-e) the clay-tablet of life, never ever to be altered!
(Rim-Sin B 52 = Haya hymn)
```

These following two OB examples feature intransitive verbs and locative indirect objects. As in earlier examples Auslauts are suppressed:

```
igi diĝir-za-ka sa<sub>6</sub>-ni

Be pleasing in (-a) the eyes of your god!
(Scribe and His Perverse Son 176, cf. 181)

gaba kù-ĝá-a u<sub>4</sub>-gin<sub>7</sub> è-ni

Come out like the daylight upon (-a) my holy breast!
(Enmerkar and the Lord of Aratta 102)
```

Compare the same intransitive verb $\grave{e}(d)$ with suffix -bi in a similar locative context, paired with a transitive imperative .

:

nin₉ du₆-da è-bi, du₆-da igi íl-la-[ni-íb (?] Sister, go out upon the hill, lift your eyes upon the hill! (Dumuzi's Dream 76, 78 OB) $\{du_6(d)+a \ \dot{e}(d)+bi\}$

Conclusions

Several conclusions may be drawn from the preceding discussion. First, it seems undeniable that both $\sqrt{-}$ bi and $\sqrt{-}$ ni mark dimensional objects, mainly locatives, in OB imperatives, taking the place of rare or unattested $\sqrt{-}$ b and $\sqrt{-}$ n with that use. Second, it must be stressed that these phenomena seem to occur almost exclusively in OB texts, with a nearly complete absence of predicted postradical anaptyxis in $\sqrt{-}$ ni forms and also with an absence of a final $\sqrt{-}$ n or $\sqrt{-}$ b/ element marking a patient/direct object in transitive forms, e.g. \hat{g} ar-ra-ni-ib. The probable suppression of verb Auslauts before -ni, as though -ni were functioning phonotactically like a mu- or bí-, is also remarkable.

All this suggests that $\sqrt{-}$ bi and $\sqrt{-}$ ni are innovations that in particular syntactic contexts would be technically ungrammatical in earlier periods of the language. One might possibly compare certain finite imperfective verbs ending in a -dè suffix (see below, pg. 126f.), in which a modal element /d/ which would otherwise be subject to deletion at the end of a verbal chain may have been written as an allomorph /de/ in order to signal explicitly its presence.

See now Attinger, NABU 2004/75, with the response of Jagersma, NABU 2006/93, for additional examples and a different basic analysis of these phenomena. Both consider these $\sqrt{-}$ bi and $\sqrt{-}$ ni forms which mark loci to be proof that the locative(-terminative) markers in declarative verbal forms, bí- and -ni-, also 1st sg. mu-, have as their fundamental shapes /bi/, /ni/ and /mu/, rather than /b/, /n/, and /m/ plus an epenthetic vocalic element – the position maintained in this grammar. If these are truly the fundamental shapes of these elements, then the theory that they reduce to /b/, /n/, and /m/ before the root may be correct, vindicating the earlier proposals of Falkenstein.

Their arguments are seductive but rendered less convincing by lack of evidence from earlier periods and the general lack of data owing to the relative paucity of imperative forms in all periods. The neologisms of late Ur III texts and OB school texts often skew the analysis of the earlier spoken language.

REMEMBER:

AN IMPERATIVE IS A FINITE, DECLARATIVE, PERFECTIVE VERBAL FORM, WHOSE PREFIX CHAIN HAS BEEN SHIFTED AS A WHOLE TO A SUFFIX POSITION.

AN IMPERATIVE IS AN INHERENTLY 2ND PERSON SG. FORM WHICH CAN BE PLURALIZED BY ADDING THE SUFFIX /(n)zen/.

THE IMPERATIVE, LIKE THE COHORTATIVE AND FINITE IMPERFECTIVE, SHOWS A SPLIT-ERGATIVE MORPHOLOGY IN WHICH A FINAL /n/ or /b/ CAN MARK AN "ACCUSATIVE" DIRECT OBJECT.

THE SIMPLEST IMPERATIVES SHOW ONLY A SUFFIX -a OR, IF VENTIVE, ONLY -u, -um OR -àm.

IMPERFECTIVE FINITE VERBS

Up to now in this introduction, discussions of the Sumerian verb have been limited to perfective verbal forms. To summarize what has been said previously about tense and aspect, a perfective verb describes an event viewed by the speaker as completed and as a whole event, and we can generally translate a Sumerian perfective form with an English past tense form, although one occasionally encounters a context where a future tense form would be appropriate and theoretically possible (e.g. Ean 1 16:24). An imperfective verb describes, on the other hand, an event viewed as uncompleted or on-going, without regard for a beginning or ending point, and we can usually translate it with an English present or future tense form, although it could just as well represent an event viewed as on-going in the past. Practically speaking, when dealing with ordinary finite verbs we will normally translate perfective forms in the past tense, while imperfectives can generally be translated in the present or future tense depending upon context (though descriptions of the /(e)d/ morpheme as a future tense marker can complicate this theory).

Sumerian imperfective verbs are properly distinguished from perfective verbs in two ways: by a difference in the shape of the verbal stem, and the use of different affix paradigms for the core pronominal subject (patient) and agent.

Later Akkadian scribes described Sumerian perfective and imperfective verbal stems with the Akk. terms *hamţu* 'quick' and *marû* 'fat' respectively. M. Civil has recently shown that the contrast was also known in Sumerian as lúgud 'short' versus gíd 'long', certainly referring to the generation of literally "longer" imperfective stems by modification of perfective stems. See "The Forerunners of Marû and Hamţu in Old Babylonian," in Riches Hidden in Secret Places (Winona Lake, 2002) 63-71 as well as Thomsen, The Sumerian Language §231. In keeping with common practice, we will freely employ the terminology hamţu vs. marû in the following discussions.

THE IMPERFECTIVE (marû) STEM (§212ff.)

The perfective stem is the basic, unmarked, form of the verb, the form that usually appears in glossary or vocabulary listings. The only usual modification seen with the perfective stem is reduplication, normally indicating plurality of a subject (patient), but also possibly repetition or some variety of intensification of the root idea. This phenomenon is referred to in grammatical studies as hamtu reduplication or plural reduplication.

The imperfective stem is formed in one of four (or three, see below) ways, according to the analysis by M. Yoshikawa (not followed by all scholars). See the next lesson on participles for more discussion of variations and peculiarities of marû stem formation.

1) <u>Affixation Class</u> (M. Yoshikawa, J. Krecher, T. Jacobsen, this grammar). This is the commonest class of verbs. Here the marû stem is formed by suffixing an element -e, which can assimilate to a preceding vowel, to the hamţu root. Krecher has suggested that this -e is in origin actually the marû stem of the principal Sumerian auxillary verb $du_{11}(g)$ 'to do'. See Thomsen § 225-226 for a list of common verbs which follow this pattern, three examples of which are:

dù	dù-e	(or dù-ù)	to build
šúm	šúm-e	(or šúm-mu)	to give
gíd	gíd-e	(or gíd-i)	to stretch, pull

Note that Edzard, also Thomsen, Jagersma, and others, believe that this -e is a 3rd sg. marû pronominal suffix rather than a marû stem formative element. They thus believe that this large class of verbs, which are then called Regular Verbs, does not show any special marû stem. This view is a feature of the older, traditional Poebel-Falkenstein school of analysis. See Edzard 2003, p. 83f. for his last statement on this matter.

2) <u>Reduplication Class</u> This is the second most common class of verbs. Here the marû stem is formed either by simple reduplication or by what Thomsen §227, for example, calls "partial reduplication," i.e. reduplication of the

hamţu root with regular deletion of a final consonant. Such final consonant deletion apparently does not occur in pluralizing hamţu reduplication. See Thomsen §228 for a list of common examples such as:

ĝar	ĝá-ĝá	to set, place	
gi_4	gi_4 - gi_4	to return	
naĝ	na_8 - na_8	to drink	(na ₈ and naĝ are the same sign)
zi(g)	zi-zi	to rise	
zu	zu-zu	to know	

Deletion of the final consonant of the reduplicated hamţu root, whether in hamţu or marû reduplication, is not always complete; with some verbs it may be retained in either the first or second root. See Edzard 2003, 12.6.2 for examples of the phenomenon, including:

bi-iz	bi-bi-zé	to drip	{biz+biz+e}
bi-ir	bi-ib-re	to scatter	{bir+bir+e}
gùn	gú-ug-nu	to be colorful	{gùn+gùn+e}
te-en	te-en-te	to cool	{ten+ten}
hal	ha-al-ha	to apportion	{hal+hal}

A root which normally forms its marû stem by reduplication may occasionally form the marû stem instead by affixation. An example is zu 'to know', whose marû stem is either –zu-zu or –zu-e. This alternation may illustrate a tendency towards an increasing regularization of the method of marû formation in the direction of the affixation class.

- 3) Alternating Class Three verbs, $\grave{e}(d)$, $te(\hat{g})/ti$, and ri(g) were originally said to comprise this class, supposedly showing a short hamtu form and a longer marû form with an added final consonant which appears when a vowel (i.e. the marû suffix -e) follows. Compare hamtu šu ba-an-ti-iš 'they took it' (MVN 2, 100 rev. 17 Ur III) and marû dub-ba-né šu na-ba-ši-íb-te-ge₂₆ 'he must not take his tablet from him (-n-ši-) (NRVN 61, rev. 3 Ur III). But the verb ri was confused with $de_5(g)$ and does not belong to this class (see W. Sallaberger, AV Klein [2005] 233 n. 6), and ePSD claims that te and ti can be harmonized by reading these signs as $te\hat{g}_3(TE)$ and $te\hat{g}_4(TI)$ respectively. The status of this entire small class is now suspect.
- 4) <u>Complementary Verbs</u> This is a class of four very common verbs which show an entirely different root as the marû stem, mainly in the singular. These stems can vary for both aspect and number. See also the description of the plural verb tuš/durun on p. 81.
- a) Four stems: ĝen/du 'to come, go'

	<u>hamţu</u>	<u>marú</u>	
sg.	ĝen	du	Both stems are written with the DU sign
pl.	re7 /ere/	$su_8(b)$	Both stems are written DU&DU or DU.DU; also seen are
			er ₁₄ (DU.DU) in OS, and syllabic er(-re) etc. in Ur III

b) Three stems: de₆/túm 'to bring'

sg.	de_6	túm/tùm	de ₆ and túm are both written with the DU sign
pl.	lah ₄ , lah ₅	lah ₄ , lah ₅	lah ₄ is written DU&DU, lah ₅ is DU.DU

P. Steinkeller, AOAT 325 (2004) 557-576, now speaks of two verbs, distinguishable only in the sg.: (1) to bring I = 'mit sich führen, geleiten' referring to persons or animals which can move by themselves. Forms: hamţu sg. túm, marû sg. tùm, pl. lah₄/s; and (2) to bring II = 'liefern' referring to objects which must be carried. Forms: hamţu sg. de6, marû sg. tùm. In OB, the older de6/túm distinction becomes less relevant, and the pattern becomes that of an affixation class verb: túm/tùm for hamţu and túm-mu for marû. Cf. mi-ni-in-tùm-uš 'they brought it in there' (Bird and Fish 7).

For the newest study see V. Meyer-Laurin, ZA 100 (2010) 1-14, who considers the situation to be "weitaus komplexer" in OB texts, requiring further study. Note finally the existence of the Emesal roots ga(-ga) and ir with the meaning 'to bring' (see M. Jaques, AV Attinger [2012] 193ff.).

c) Two stems: du₁₁(g)/e 'to do'

sg. $du_{11}(g)$ e The marû participle (and infinitive) also uses the pl. e special stem di(d)

d) Two stems: úš/ug7 'to die'

sg. úš ug_7/ug_5 úš and ug_7 are both written with the TIL sign ug_7/ug_5 ug_7/ug_5 By the OB period ug_7 is used for all contexts. See Attinger, NABU 2011, p. 6f. for a new analysis.

IMPERFECTIVE PRONOMINAL PARADIGMS (§294ff.)

To review the subject (patient) and agent paradigms for perfective (hamţu) verbs:

A nominal chain representing the subject (patient) of a sentence stands in the absolutive case. This subject is also marked in the perfective verbal chain by a corresponding pronominal suffix, conjugated for person, number, and gender as follows:

Perfective Subject

Sg 1 2 3	-(e)n -(e)n -Ø	I, me you he/him, she/her, it
Pl 1	-(e)nden	we, us
2	-(e)nzen	you
3p	-(e)š	they, them (personal)
3i	√-√	they, them (impersonal)

A nominal chain representing the agent of a sentence stands in the ergative case, marked by the postposition -e. This agent is also marked in a perfective verbal chain by a corresponding conjugated verbal prefix as follows:

Perfective Agent

Sg 1 -Ø- I, by me
2 -Ø-/-e- you, by you
3p -n- he/she, by him/her
3i -b- it, they, by it/them
Pl 1 —
2 —
3p -n-
$$\sqrt{-}$$
(e)š they, by them

Now, an imperfective verb which does not feature an agent seems to show the same suffixed subject (patient) paradigm that is found in perfective forms. For example:

```
en-na ba-ug<sub>5</sub>-ge-a
                                                                                                     \{ba+ug_5+e+Ø+a\}
Until he shall die
(Enki & Ninhursag 221 OB)
níĝ igi-bi-šè gištukul la-ba-gub-bu-a
                                                                                                \{nu+ba+gub+e+Ø+a\}
A thing before which a weapon cannot stand
(Lament over Sumer and Ur 298 OB)
du<sub>6</sub>-du<sub>6</sub> ki a nu-e<sub>11</sub>-da a ma-ra-e<sub>11</sub>-dè
                                                                                                      nu+e_{11}(d)+Ø+a
Among the hills, (places) where water had not come down
                                                                                                 \{mu+ra+e_{11}(d)+e+\emptyset\}
(before), water will come down for you
(Gudea Cyl A 11:14-15 Ur III)
Kisigaki iri ul ki ĝar-ra-ba,
zi-du nu-dab<sub>5</sub>-bé érim-du nu-dib-bé
                                                                                    \{nu+dab_5+e+\emptyset\} \{nu+dib+e+\emptyset\}
In Kisiga, their ancient well-founded city,
one who walks rightly is not seized, but one who walks evilly shall not pass
(Ibbi-Suen B Segment B 6 Ur III)
Note that the "passive" patient of dab<sub>5</sub> and the "intransitive"
subject of dib have exactly the same marû morphology.
u<sub>4</sub> im-šú-šú igi im-lá-e šà-ka-tab ì-zu-zu
                                                                                                       \{Vm+\check{s}\acute{u}-\check{s}\acute{u}+\emptyset\}
The day was being obscured, vision was being reduced, starvation was being experienced
(Lament over Sumer and Ur 305 OB)
tùr nu-dù-e amaš nu-ĝá-ĝá
                                                                                                         \{nu+d\dot{u}+e+\emptyset\}
Cattle pens were not being built, sheepfolds were not being set up
(Nisaba Hymn 27 in Reisman Diss. p. 105 OB)
bar-mu-uš na-dúb-bé
                                                                                                         \{na+d\acute{u}b+e+\emptyset\}
It is shaken because of me
(Eršemma No. 171:21, -mu = Emesal for -\hat{g}u_{10} 'my')
```

An imperfective verb which features an agent, on the other hand, marks the agent by means of a suffix which is *identical to that of the perfective subject* except in the third person plural, where -(e)ne replaces -n- $\sqrt{-}$ (e)s:

Imperfective Agent

	Р		_
Sg 1 2 3	-(e)n -(e)n -Ø	I you he, she, it	/(e)/ is here understood as an epenthetic vowel which appears after roots ending in a consonant. It can assimilate to the vowel of the root.
2	-(e)nden -(e)nzen o -(e)ne		I

Thus, in imperfective forms the category of "agent markers" is shifted in the verbal chain from the prefixed position seen with perfective verbs to a suffixed position after the stem. At the same, the category of "patient markers" is theoretically shifted from the suffixed position seen with perfective verbs to a prefixed position, occupying the prefix slot of the perfective agent immediately before the root. Most current scholars see in this pattern of pronoun shift a demonstration of splittergativity, in which finite imperfective verbs demonstrate a nominative/accusative orientation instead of the ergative/absolutive pattern seen in the perfective verb. The erstwhile patient of a verb is redefined as an

accusative "direct object" while the agent becomes a nominative "subject." See Michalowski, Journal of Cuneiform Studies 32 (1980),86-103, Thomsen §42, Attinger 1993, 150-52, along with Edzard's objections in 2003 \$\Bigsim\$ \$12.7.5. Note that agent and patient case marking on nominal chains remains unaltered; only an imperfective verbal chain can demonstrate this split ergative marking phenomenon.

P. Attinger offered the following full paradigm for the marû patient (direct object) See his argument in Zeitschrift für Assyriologie 75 (1985) 161-178 following on the earlier proposal of J. van Dijk in Orientalia NS 39 [1970] 308 n. 1:

Imperfective Object Sg 1 -(e)n-(realized as /e/, /V/ or /n/) 2 - (e)nyou 3p -nhim, her 3i -bit, them P1 1 (perhaps me-?) us 2 you them (personal) 3p -ne-

In this scheme, the 1st/2nd sg. perfective suffix -(e)n is shifted to prefix position, while the the perfective agent prefixes -n- and -b- take on the function of imperfective direct object. According to Attinger's analysis, which is not yet fully accepted, the 1st and 2nd sg. forms can appear either as -n-, indistinguishable from 3rd sg. ergative -n-, or as -e- or an assimilated vowel. It is difficult to demonstrate these 1st and 2nd person forms with confidence, particularly in texts from before the Old Babylonian period. In practice one usually sees only the 3rd sg. -n- or -b- prefixes and occasionally an -e- prefix for which an alternate explanation is often possible. Further, since in the older, native Sumerian periods -n- is normally not written before the root even to mark the perfective agent, one normally encounters only the impersonal -b- as a direct object marker, and that only sporadically. One must keep in mind that before the Old Babylonian period and the death of spoken Sumerian the marking of most case relationships within the verbal chain was essentially optional. For example, the marking of imperfective objects is inconsistent throughout the early Ur III period Gudea texts:

Object properly marked:

```
an-dùl daĝal-me ĝissu-zu-šè ní ga-ma-ši-íb-te
You are a wide umbrella, unto your shade I will go to refresh myself
(Cyl A 3 14-15) (-me = -me-en)

aša<sub>5</sub> gal-gal-e šu ma-ra-ab-íl-e
e pa<sub>5</sub>-e gú-bi ma-ra-ab-zi-zi
All the great fields will raise the hand for you,
The levees and ditches will raise their banks for you
(Cyl A 11:12-13)
```

Object not marked:

```
šà-bi ha-ma-pà-dè

The meaning of it may she reveal to me
(Cyl A 2:3)

ĝiš-hur é-a-na ma-ra-pà-pà-dè

All the plans of his temple he will reveal to you
(Cyl A 7:6)

dnin-ĝir-su é-zu ma-ra-dù-e

{hé+ma+(b)+pàd+e+Ø}

{mu+ra+(b)+pàd-pàd+e+Ø}

{mu+ra+(b)+pàd-pàd+e+Ø}
```

Ningirsu, I will build your temple for you (Cyl A 8:18)

Objects inconsistently marked in continguous lines:

 $\begin{array}{ll} \acute{e} \ u_4\text{-d}\grave{e} \ ma-ra-d\grave{u}-e \\ \hat{g}i_6\text{-e} \ ma-ra-ab-m\acute{u}-m\acute{u} \\ \end{array} \\ \left\{\begin{array}{ll} mu+ra+(b)+d\grave{u}+e+\varnothing \right\} \\ \left\{\begin{array}{ll} mu+ra+ab+m\acute{u}-m\acute{u} \end{array}\right\} \end{array}$

The day will build up the temple for you, the night will make it grow up for you (Cyl A 12:1-2)

ur-saĝ ma-a-du₁₁ šu zi ga-mu-ra-ab-ĝar $\{ma-e-du_{11}(g)\}$ $\{ga+mu+ra+b+\hat{g}ar\}$ d nin- \hat{g} ir-su é-zu ga-mu-ra-dù $\{ga+mu+ra+(b)+du\}$ me šu ga-mu-ra-ab-du₇ $\{ga+mu+ra+b+du_7\}$

Hero, you have spoken to me; I will put forth a trusty hand for you. Ningirsu, I will build your temple for you. I will perfect the divine powers for you (Cyl A 2:13-14)

A few examples of object markings from early administrative texts:

 $PN_1 \text{ nagar } u_4 \text{ 30-sè } PN_2 \text{-ra hé-na-an-súm-mu} \qquad \qquad \{\text{hé+na+n+súm+e+Ø}\}$

Let him give PN_1 the carpenter (-n-) to PN_2 for 30 days (TCS 1 218:3-6 Ur III)

 $10.0.0 \text{ §e sig}_5 \text{ gur-lugal PN-ra hé-na-ab-šúm-mu} \\ \text{ $\{\text{hé+na+b+} \text{§úm+e+}\emptyset$}\}$

Let him give to PN 10 royal *gur* of good barley (-b-) (TCS 1 7:5-7 Ur III)

mu-túm-e-a mu lugal-bi in-pà $\{mu+n+túm+e+\textit{Ø}+a\}$

He swore by the king's name that he will bring him (-n-) in (MVN 7, 526:4-5 Ur III)

PN ù PN₂ ha-mu-ne-gi₄-gi₄ {ha+mu+ne+gi₄-gi₄+ \emptyset }

PN and PN_2 – let him send them (-ne-) back here (FAOS 19, 37 Ad 1:9 letter Ur III)

lú a-ga-dè^{ki} na-ne-gaz-e He must not kill men (-ne-) of Akkad! {na+ne+gaz+e+Ø} (Wilcke, JCS 29, 186:6-7 OAkk letter-order)

Some further examples from Old Babylonian texts:

šeš-a-ne-ne ku-li-ne-ne èn tar-re im-mi-in-kúš-ù-ne {Vm+b+n+kúš+e+(e)ne}

His brothers and friends exhaust him (-n-) with questioning (-bí-)

(Lugalanda and Enmerkar 225f.)

e-ne-ne en ĝipar-ra bí-in-huĝ-e-ne $\{b+n+hu \hat{g}+e+(e)ne\}$ ereš-diĝir máš-a im-mi-in-dab $_5$ -bé-ne $\{Vm+b+n+dab_5+e+(e)ne\}$ gudu $_4$ hi-li-a bí-in-gub-bu-ne $\{b+n+gub+e+(e)ne\}$

They install a high priest (-n-) in the Gipar (bí-),

they take a high priestess (-n-) though a kid-omen (-bí-),

they have a priest (-n-) in (his) prime doing the serving there (Hendursaga A 73-75)

lú mu-sar-ra-ba šu bí-íb-uru₁₂-a mu-ni bí-íb-sar-re-a

 $\{b+b+\dot{u}r+e+\emptyset+a\}$

```
Any person who shall sweep a hand over (= erase) \{b+b+sar+e+\emptyset+a\} this inscription and write his (own) name upon it \{bi-resumes -a\} (Anam 2:32-35 = RIM E4.4.6.2)
```

Finally, for completeness one must mention those verbal forms which seem to show the imperfective prefix pattern but which occur in clauses which lack an obvious agent. Such forms are effectively passive in sense, for example:

dumu dumu-gi₇ lugal-da nu-me-a nam-ir₁₁-da-ni-šè la-ba-an-ku₄-re The son of a free(d) person (-n-) without the master's permission shall not be made into one of his slaves (Ur-Namma Law Code 202-204 Ur III)

kislah ... in-na-ab-šúm-mu The empty land (-b-) ... shall be given to him. (Lipit-Ištar Law Code § 8 OB)

PROBLEMS AND SCRIBAL ERRORS

OB literary texts frequently feature textual variants or problematic verbal forms open to several different interpretations, which can make translation difficult. For example, does the following passage illustrate Attinger's 1st sg. imperfective object marker in the form of mu-e(n)-, with the 1st sg. marker serving to render a 1st pl. idea? Or is mue-a misunderstood writing for an actual 1st pl. me-direct object pronoun based on the 1st sg. dative prefix me-? Or could -e- simply be a normal 2nd sg. agent marker which indicates a second agent in the sentence that accomplishes the action?

```
me-en-dè: giš nimbar-gin šu nu-du<sub>11</sub>-ga-me a-na-aš mu-e-gul-gul-lu-ne giš má gibil-gin sa-bíl-lá nu-ak-me a-na-aš mu-e-zé-er-zé-er-re-ne Us – Why do you (-e-) have them (-e-ne) destroy (us) like a palm tree, despite our not having laid a hand(?) upon it?

Why do you (-e-) have them (-e-ne) destroy (us) like a new boat despite our not having plastered(?) it (with bitumen)?

(Lamentation over Sumer and Ur 241-242 OB)
```

Compare the following passage from the same text, reconstructed from the same textual exemplars, in which the 1st plural object is apparently written me-:

```
[gu]-ti-um<sup>ki</sup> lú ha-lam-ma-ke<sub>4</sub> me-zé-er-zé-re-ne {me+zé(r)-zé(r)+ene} Gutim, the annihilaters, are destroying us! (Lamentation over Sumer and Ur 230)
```

One must also be careful to distinguish a preradical -n- which marks an object from an -n- which resumes a locative, especially common in OB texts, e.g.

```
kur-ra ga-an-ku<sub>4</sub> mu-\hat{g}u_{10} ga-an-\hat{g}ar {kur+a ga+n+ku<sub>4</sub>} I would go into (-n-) the mountains and establish there (-n-) my name (Gilgamesh and Huwawa 7 OB)
```

Finally, one will encounter many apparent errors in the choice of 3rd sg. -n- vs. -b- object markers in OB texts. In the following, -n- is apparently an error for impersonal -b- unless the -n- marks an unnamed locus "here":

```
za-e é-ubur-ra ma-ra-an-dù-ù-ne {mu+ra+n+dù+e+(e)ne}
For you they will build a milking house (-n-)
(Sheep and Grain 136 OB)
```

On the other hand, apparent errors sometimes have logical explanations. In the following, impersonal -b- is possibly employed because the object, King Urnamma, has died and is now an impersonal lifeless corpse:

ur-^dnamma bára gal kur-ra-ke₄ mu-ni-ib-tuš-ù-ne They seat Ur-Namma on the great dais of the netherworld (Urnamma A 136 OB)

In this late Ur III contract from Nippur, both marû verbs seem to be grammatically faulty, the first showing a preradical -n- rather than -b-, the second lacking any preradical mark:

10 gín kù-babbar iti mìn-èš-ta u₄-5-àm zal-la lugal-hé-ĝál <u>in-lá-e-a</u> bí-in-du₁₁ tukumbi nu-l[á], 20 še [gur-lugal] <u>ì-áĝ-e-a</u> mu lugal in-pà Lugalheĝal declared that he will weigh out 10 shekels of silver when 5 days have passed from the month Min'eš. He invoked the king's name that if he does not pay he will measure out 20 royal *gur* of barley (Grégoire, AAS 78:5-6 Ur III)

In addition to gender errors in the marû object marking system, other sorts of problems are common in the marking of agents in OB passages. In the following two lines for example, the first verb is nearly correct, lacking only an explicit preradical -n- to mark the 3rd. sg. personal object. The second verb, however, shows a preradical -e- whose interpretation is difficult. Is it a second, prefixed, 2nd sg. agent marker repeating the suffixed agent marker -en, or perhaps an allomorph of a localizing -n-?

 \hat{g} á-e ^dnin-hur-sa \hat{g} - \hat{g} á mu-e-ši-túm-mu-un a-na-àm ní \hat{g} -ba- \hat{g} u₁₀ za-e ^dnin-hur-sa \hat{g} - \hat{g} á mu-e-túm-mu-un-nam I – if I bring Ninhursa \hat{g} a here to you, what will be my reward? You – if you indeed bring Ninhursa \hat{g} a here ... (Enki and Ninhursa \hat{g} a 224/226 OB)

{m+e+ši+(n)+túm+en} {m+e+túm+en+am}

FINITE IMPERFECTIVE VERBS WITH SUFFIXED MODAL /d/ ELEMENT

An element /d/, usually called the /ed/-morpheme, may be suffixed to the marû stem of the verb to add what may be a modal nuance to the imperfective form, namely a notion such as possibility (can, might be done), necessity (must, needs to be done) or obligation (ought, should, is to be done). T. Jacobsen proposed that it can further convey a "preactional" idea, referring to future situations which are "about to begin," while others, including Edzard, have described it as a mark of future tense. See the following lesson on participles and infinitives for more discussion and illustrations of the form and functions of /d/ in connection with non-finite verbal constructions.

The meaning of /d/ in OB finite verbs is sometimes not clear. The following illustrative examples will therefore come mostly from earlier periods:

tukum-bi u₄-da-ta PN ù dumu-ĝu₁₀-ne ha-ba-zàh-dè-eš If after today PN and my children might run away (ITT V 9594:2-3, Falkenstein ZA 55 (1963) 68 Ur III)

{hé+ba+zàh+e+d+eš}

u₄ PN ba-úš-e-da-a Whenever (in the future) that PN may die (Falkenstein, NSGU 7:15 Ur III) $\{ba+\dot{u}s+e+d+a+a\}$

dumu ù-ma-ni-ke₄-ne arad-da la-ba-gi₄-gi₄-dè-ša-a That the children of Umani should not return (to court) about the slave (Falkenstein, NSGU 64:16'-17' Ur III) $\{nu+ba+gi_4-gi_4+d+es+a\}$

dub lú nu-ub-da-su-su-da-ne

 $\{nu+b+da+su-su+d+a+(e)ne+ak+\emptyset\}$

The tablet of the persons who don't have to repay it (Forde, NCT 19:52 Ur III)

1 máš gú-na šeš-kal-la mu nu-da-su-su-da-šè šu bar-re {nu+n+da+su-su+d+a+šè} 1 kid for taxes of Šeškalla, because he didn't have to repay it, is to be released {bar+e+d} (Oppenheim, Eames Collection Bab 9:1ff. Ur III)

mu lugal u_4 ba-zàh-dè-na-ĝá NIR-da hé-a bí-in-d u_{11} {ba+zàh+e+d+en+a+ $\hat{g}u_{10}$ +a} By the king's name, on a day that I might flee may it be a felony, he declared (BE 3/1, 1:4-6 Ur III}

 $u_4 \ temen-\hat{g}u_{10} \ ma-si-gi_4-na \ \acute{e}-\hat{g}u_{10} \ u_4 \ šu-zi \ ma-ši-tùmu-da \\ The \ day \ you \ shall \ sink \ my \ foundation \ (pegs) \ for \ me, \\ the \ day \ when \ a \ righteous \ hand \ is \ to \ be \ brought \ to \ my \ house \ for \ me \\ (Gudea \ Cylinder \ A \ 11:18-19 \ Ur \ III)$

á-áĝ-ĝá lugal-ĝá-ke4 ì-gub-bé-en nu-tuš-ù-dè-en {nu-tuš+e+d+en} (Since) I am serving at the instructions of my king, I must not sit (Letter of Aradmu to Šulgi No. 1, 25 OB)

ĝá-e u₄-ba ša-ba-gúr-e-dè-en And indeed I, on that day, will consequently (ša-) have to bow down to him (Enmerkar and the Lord of Aratta 291)

ala \hat{g} -gin $_7$ kù \hat{s} -kù \hat{s} -a dé-a-me \hat{s} ì-sè-ge-dè-en-dè-en Are we to be made like statues which are poured into moulds? (Lamentation of Sumer and Ur 229)

FINITE IMPERFECTIVE VERBS ENDING IN /de/

A problem in Sumerian grammar has been the analysis of finite imperfective verbs ending in the suffix -dè. With non-finite verbal forms this suffix is easily understood as the modal element /d/ plus locative-terminative -e, since non-finite forms follow the rules of nominal chain formation and so regularly end with a case marker (or the copula). But unless they are made into relative clauses by means of the nominalizing suffix -a, finite verbs are not nominal chain constructions. What then is the final /e/ element in such forms, in view of the description of marû stem formation that is followed in this grammar?

In particular cases one can identify a reasonable origin for an unorthodox form. Compare the following non-contestation formula from an Old Babylonian sales contract:

u₄-kúr-šè lú lú-ù nu-un-gi₄-gi₄-dè mu lugal-bi in-pà-dè-eš That in the future one person shall not return (to court) against the other, a royal oath to that effect they swore (JCS 20, 44:20-22 Nippur, Rim-Sin 25)

Here nu-un-gi₄-gi₄-dè incorrectly conflates two commonly occurring variant forms: a negated infinitive nu-gi₄-gi₄-dè 'to not return' with a locative-terminative -e loosely dependent upon a verb of speaking, and a nominalized finite verb nu-un-gi₄-gi₄-da 'that one would not return against him' which anticipates the -bi pronoun in the main clause. Other cases however are not so easily explained.

The simplest answer may lie with the phonotactics of the /d/ element. When /d/ is not followed by some vocalic element such as a subject pronoun, that is, when it stands as the last element in the finite verbal chain, /d/ is thought to be regularly deleted (see the full description /d/ in the lesson on participles and infinitives). Thus, in finite imperfec-

tive verbs with a 3rd person sg. subject or agent marked by a final zero suffix (-Ø), the immediately preceding /d/ element would be deleted and there would be no explicit way to indicate the presence of this morpheme in the verb. An obvious solution lay at hand. By analogy with ubiquitous infinitives of the shape ĝá-ĝá-dè 'to place', the suffix -dè was occasionally placed at the end of finite verbal chains as a kind of allomorph of the /d/ element. While the final /e/ is in origin the locative-terminative case postposition, which cannot occur by definition on non-nominalized finite verbal chains, it has no syntactic function in such aberrant forms. Thus, previous attempts to assign a special morphological function to this final /e/ are unnecessary. It has no meaning per se; it only functions in this specific environment to make the /d/ element evident. This phenomenon is probably an OAkk or later innovation.

Compare the following lines from the OB Homocide Trial (Jacobsen, Analecta Biblica 12, 130ff.). In line 41 the verb should read al-gaz-e unless the form is a conflation of finite al-gaz-e and an infinitive gaz-e-dè. In the two parallel forms the final 3rd person pl. subject marker /(e)š/ renders the /d/ pronounceable:

munus-e a-na bí-in-ak-e al-gaz-e-d[è] bí-in-eš
"The woman, what was she doing (that) she is to be killed,"
they declared (lines 40-41)

nita 3-a-bi ù munus-bi igi ^{giš}gu-za PN-šè ì-gaz-e-dè-eš {V+gaz+e+d+(e)š} bí-in-e-eš

"Those three men and that woman should be killed before PN's chair" they declared (lines 32-34)

PNN al-gaz-e-dè-eš {al+gaz+e+d+(e)š} PNN are to be killed (lines 55-59)

Additional examples:

kù mu-[un]-na-ba-e šu nu-um-ma-gíd-i-dè {nu+m+ba+gíd+e+d+Ø} (The god Numušda) offers him silver, but he would not accept it (Marriage of Mardu 77 OB)

iz-zi im-ma-ab-kal-la-ge-dè {Vm+ba+b+kalag+e+d+Ø} He has to strengthen the wall (of the rented house) (Chiera, PBS 8/1, 102 r 8f. OB)

Compare a negated participle ending in -dè which theoretically stands in the absolutive(!) case :

lú mu-sar-ra-ba šu bí-íb-ùr-ru-a mu <u>nu-sar-dè</u> in-na-ab-sar {nu+sar+e+d+Ø} A man who shall erase this inscription, and a name which should not be written he shall write (on it) for him (Laws of Ur-Namma epilogue g10a, OB copy)

Excluded from this discussion are those Ur III or earlier verbs which often drop the final /n/ of the 1st or 2nd sg. subject/agent suffix -en, e.g. Šulgi X 137 na-ba-an-kúš-ù-dè-e 'may you not grow weary of this', for which a parallel in Šulgi D 393 offers nam-ba-kúš-ù-dè-en. Another example:

PN dam šà-ga-na-ke $_4$ ha-ba-du $_{12}$ -du $_{12}$ ba-ra-ba-dù-dè bí-du $_{11}$ {bara+ba+n+dù+e+d+e(n)} "Let PN be married by a spouse of her own desire. I would not hold her back," he declared (Edzard, SRU 85 r. 2'ff. OAkk)

 $\{al+gaz+e+d+\emptyset\}$

REMEMBER: IMPERFECTIVE STEMS ARE FORMED IN THREE (FOUR) WAYS:

- AFFIXATION OF -e
- REDUPLICATION (WITH LOSS OF AMISSIBLE AUSLAUTS)
- (USE OF AN ALTERNATE STEM WITH ADDED FINAL COUNSONANT) = uncertain
- SUBSTITUTION OF A DIFFERENT, COMPLEMENTARY ROOT

TRANSITIVE AND CAUSATIVE IMPERFECTIVE FINITE VERBS, ALSO IMPERATIVES AND SOME COHORTATIVE FORMS, DEMONSTRATE "SPLIT ERGATIVITY" IN THEIR SUBJECT-OBJECT PRONOUN PATTERNS. THE AGENT (NOW THE NOMINATIVE SUBJECT) APPEARS AFTER THE ROOT, AND THE PATIENT (NOW THE ACCUSATIVE OBJECT) APPEARS IN THE PRERADICAL POSITION. CORRESPONDING ERGATIVE AND ABSOLUTIVE CASE MARKERS ON NOMINAL CHAINS ARE UNAFFECTED.

PARTICIPLES AND THE INFINITIVE

THEORETICAL CONSIDERATIONS

The following first two sections were originally part of a position paper presented to the 1992 meeting of the Sumerian Grammar Discussion Group held in Oxford, England. Certain parts remain speculative.

Basic Structure of Participles and the So-called Infinitive

- 1) The non-finite verbal forms of Sumerian are, generally speaking, distinguished from finite forms by the absence of verbal prefixes, although participles can be negated by means of the negative preformative nu-. This distinction is not absolute, however, since the verbal root begins the form also in the case of the imperative transformation and the rare Old Babylonian so-called prefixless-finite constructions (for which see W.H.Ph. Römer, Sumerische 'Königshymnen' der Isin-Zeit (1965) 220-223).
- 2) Participles (verbal adjectives) and the "infinitive" are structurally related. We can attempt to characterize their interrelationship in terms of differences of aspect and presence or absence of the modal suffix /d/ and the nominalizing suffix -a. Compare the non-finite forms of the root ba 'to allot, distribute', here with a dummy patient níĝ 'thing', that will be used paradigmatically in the following presentation (ba-e represents any marû stem, including those formed by reduplication or root alternation):

Form	- /a/	+/a/	Meaning
hamţu participle	níĝ ba	níĝ ba-a	allot a thing
marû participle	níĝ ba-e	níĝ ba-e-a	allotting a thing
marû participle + /d/	níĝ ba-e-d	níĝ ba-e-d-a	a thing (having) to be allotted

Describes a thing done without concern for or emphasis on the on-going process of doing it, implying the constancy, regularity or permanance of an event, or a process with an inherent end-point (a telic event). This form is the basis of nominal compounds such as níĝ-ba 'alloted thing' > 'portion, gift', ki-ùr 'leveling place' > 'terrace', sa-pàr 'cord spreader' > 'net', an-dùl 'sky coverer' > 'canopy', or of such occupational terms as dubsar 'tablet writer' > 'scribe', za-dím 'stone fashioner' > 'lapidary', má-gíd 'boat tower', or of such attributive forms as átuku 'having strength' > 'powerful', níĝ-tuku 'having things' > 'rich', níĝ-nu-tuku 'not having things' > 'poor', nir-ĝál 'being lordly' > 'authoritative'. Cf. Gudea Cyl A 6:26 ur-saĝ níĝ-ba-e ki áĝ-ra 'for the hero who loves gifts', i.e. for whom the loving of gifts is perhaps an unchanging, constant feature of his character. With the addition of a nominalizing -a suffix this form becomes what is usually described as a past participle: ki áĝ-a '(that which is) loved'.

níĝ ba-e The doing of a thing with concern for the process, duration, repetition or potentiality of the event, a process without an inherent end-point (an atelic event). This imperfective form may be the basis of such occupational terms as ad-gi₄-gi₄ 'one who returns the voice > advisor' or maš-šu-gíd-gíd 'one who reaches the hand into the kid > diviner'. Cf. attributives such as gal-di 'one who does things in a great manner', nin₉ mul-mul 'the ever radiant sister', or u₄ iri gul-gul 'the storm (which goes about) destroying cities'. This form can could be described as a present participle. An added -a suffix may make the participle more definite or merely relativize the form.

níĝ ba-e-d /d/ may add a modal idea to the participle, chiefly necessity (must, needs to be done) or obligation (ought, is to be done), also purpose (in order to, for the purpose of doing); compare the Latin gerundive. It might possibly add an irrealis, conditional nuance. Jacobsen observed that it can also convey a "preactional" idea, referring to future situa-tions which are "about to begin." Edzard (1967) described it as a Tempuszeichen par excellence," and in his last statement (2003, p. 82) he again takes it as a future indicator, at least with intransitive finite verbs. But if it conveys a future tense idea it probably developed that use secondarily, and since the marû stem already connotes present or future action, such a use of /d/ would be to some extent redundant. Frequently the meaning of /d/, especially in OB finite verbs, is unclear (see previously on imperfective finite verbs.) A ba-e-d form with a locative-

terminative case marker, {ba+e+d+e}, has generally been referred to as the Sumerian infinitive, and it can seem to have that kind of use, but in closer analysis one should always keep in mind that it is basically a marû participle with some modal meaning. The term "infinitive" will be used here by convention, as a way of referring to non-finite forms with suffixed /d/ in certain contexts.

- 3) It is a fundamental axiom of Sumerian grammar that a proper Sumerian verbal sentence or clause must feature on a fundamental level a subject (patient) and a verb. An infinitive construction is actually a kind of verbal clause, consisting of a subject (patient) and a modifying participial verbal complex $\{\sqrt{(mar\hat{u})}+d\}$, standing in the positions of a head noun and adjective in a nominal chain, though sometimes the two parts are separated by modifiers of the head noun and or adverbial expressions. The verbal complex must always end with a case marker (or a case-masking copula), unless the chain is embedded within another chain either as an attributive adjectival clause or as the regens of a genitive construction. The case normally seen with a simple infinitive is locative-terminative -e. Note in passing that when analyzing participial and infinitive constructions in this ergative language, it is important to keep in mind that individual participles may be active or passive in sense, depending upon the context. Giving verbal roots passive translations in apparent transitive contexts can sometimes be helpful.
- 4) In addition to applying to non-finite forms, whether described as participle or infinitive, the rules of nominal chain formation, one should keep in mind the basic *relativizing* function of the nominalizing suffix -a. -a generates attributive relative phrases or clauses which then occupy the rank order slot of a primary or secondary adjective in new, expanded nominal chains. If the finite verb in the sentence é in-dù 'he built the house' is relativized, the resulting clause é in-dù-a 'the house which he built' can be used as the head noun and attributive of a new nominal chain, for example {é in-dù-a}-bi-šè 'towards that house which he built'. Substituting a non-finite past participle or present participle plus modal /d/ in the last phrase yields: {é dù-a}-bi-šè 'towards that house which was built' or {é dù-e-da}-bi-šè 'towards that house which is to be built'.
- 5) To help simplify the analysis of "infinitives" one may identify two basic types of infinitive constructions, those with and those without a relativizing -a suffix. For example:

(a) kù šúm-mu-dè to (-e) have to give silver {šúm+e+d+e} (b) kù šúm-mu-da silver which has to be given {šúm+e+d+a}

In (a) the infinitive {šúm+e+d} functions as an attributive modifier, often a kind of gerundive, i.e. a present participle with a modal nuance, approximately 'the ought to be given silver'. The final -e is the locative-terminative case marker which links the infinitive construction with the rest of the sentence, whether as a loose indirect object of a verb of speaking, for example, or as a more independent adverbial expression. This -e often functions in form and meaning like the "to" used with English infinitives.

In (b) {šúm+e+d} is relativized, the form in which it occurs, for example, with possessive pronouns in the imperfective Pronominal Conjugation (see below) or in a copular sentence such as kù-bi (kù) šúm-mu-dam 'that silver is (silver which is) to be given'.

The difference in meaning between a participle or infinitive with and without a nominalizing -a is sometimes difficult to appreciate. Perhaps the problem is comparable in some cases to the distinction between simple adjectives with and without an -a suffix, e.g. lú du_{10} -ga vs. simple lú du_{10} , studied by J. Krecher (1978) and discussed in this grammar in the early lesson on nouns and adjectives.

Phonotaxis of the Element /d/

1) The most recent comprehensive description of the modal /d/ element is that of Edzard 2003 p. 132, who speaks as follows of four allomorphs of what has traditionally been called the /ed/ morpheme:

a) [ed] after a C and before a V

šúm-e-dè

b) [(e)d] after a V and before a V

dù-dè

```
c) [e(d)] after a C "in final position" sar-e#
d) [(e)(d)] after a V "in final position" in a form such as gi<sub>4</sub>-gi<sub>4</sub> ĝá-ĝá#
```

Note that Edzard's analysis of the /d/ element differs from that of this grammar in that Edzard, following Falkenstein, has not accepted the existence of Yoshikawa's marû stem-forming suffix -e. Instead, in his view the [e] seen in association with the /d/ element is a component of an /ed/ morpheme. This older analysis in part has led earlier scholars to conclude that there is a large class of verbal roots, called Regular Verbs or *Normalform* Verbs, which do not differentiate marû stems. For such roots it is the presence of the /ed/ element which generates a marû participle or an infinitive. With this view of /ed/ compare the Poebel-Falkenstein-Edzard analysis of imperfective finite verbs like {Vb+šúm+e} > ib-šúm-e 'he will give it', where the final -e suffix represents a portmanteau coalescence of three morphemes: {3rd sg. + agent + future}. The Yoshikawa system, followed by this grammar, would analyze instead Vb+šúm+e+Ø, in which the /Ø/ represents two morphemes {3rd sg. + agent} and the -e only one {marû}.

- 2) The preceding phonotactic scheme looks somewhat like that of the genitive case marker /ak/. The [k] is deleted before a) a consonant (the possessive pronouns and the CV case markers); b) at a word boundary (#), e.g. at the end of an anticipatory genitive chain; and c) before the absolutive case marker -Ø, which functions phonotactically like a word boundary. It is retained before a vowel. One can make the analogy complete by theorizing that /d/ is also deleted before CV possessive pronouns but not -(a)ni or -(a)nene; and before CV case markers. As an attributive phrase within a nominal chain, the participle is, after all, capable of being followed by a possessive/demonstrative pronoun and a case marker. Edzard's analysis presupposes an epenthetic vowel [e] in certain contexts, parallel to the [a] of the genitive /ak/. For the present, however, this grammar assumes the existence of Yoshikawa's /e/ marû stem formative and that the modal element is properly just /d/. Compare an infinitive such as the Old Sumerian hal-hal-dè (e,g, Westenholz, OSP 2, 44 2:2), which on its face argues against the presence of any such epenthetic vowel between the final consonant of the root and the /d/ element. For a more detailed traditionalist discussion of this matter compare for example G. Steiner in Journal of Near Eastern Studies 40 (1981) 21-41 with M. Yoshikawa's original views in Journal of Near Eastern Studies 27 (1968) 251-261.
- 3) If, for the sake of discussion, one holds both with the above full phonological deletion scheme for /d/ and also with Yoshikawa's marû formative -e, one is left with the uncomfortable result that a number of Sumerian "infinitives" will not show the /d/ element, i.e. any actual explicit phonological mark of an infinitive (cf. Edzard's allomorph (d) above). Granted, the language permits a parallel total deletion also in the case of genitive forms like ama dumu 'the mother of the child' {ama dumu+ak+ \emptyset }. On the other hand, those scholars who hold with Edzard's view that the base element is /ed/ must likewise hold that marû participles based on marû stems formed using Yoshikawa's -e suffix which are distinct from "infinitives" featuring modal /ed/ do not exist. In other words, all marû participles taking the form ba-e are instead to be analyzed as ba+e(d), which, as will be shown below, is demonstrably false. This view would further raise the question of how one would translate all these /ed/ forms with any consistency. This is possibly why Edzard opted for a general meaning of "future tense" rather than any modal meaning in his descriptions of the /ed/ morpheme.

The following summarizes a collection of actually occurring forms that illustrate the above proposed full deletion scheme in conjunction with the application to marû participles (infinitives) of nominal chain rules and the nominalizing suffix -a.

ba-e-d before a possessive pronoun and a case marker

ba-e-d before a case marker or the 3. sg. copula

```
absolutive ba+e+d+\emptyset > ba-e ergative/loc.term. ba+e+d+e > ba-e-de locative ba+e+d+a > ba-e-da
```

comitative	ba+e+d+da	>	ba-e-da	
terminative	ba+e+d+šè	>	ba-e-šè	
genitive	ba+e+d+ak	>	ba-e-da	(anticipatory genitive)
3rd sg. copula	ba+e+d+Vm	>	ba-e-dam	

ba-e-d plus nominalizing -a and nominal chain elements

```
word boundary
                     ba+e+d+a+#
                                           ba-e-da
                                                         (regens of a genitive)
locative
                     ba+e+d+a+a
                                     >
                                           ba-e-da(-a)
                                                         (locative often elided)
3rd sg. copula
                     ba+e+d+a+m >
                                           ba-e-dam
pronoun + case
                     ba+e+d+a+(a)ni+e >
                                          ba-e-da-né
                                                         (pronominal conjugation)
```

Notice the two different possible sources for the copular sequence ba-e-dam. Note further the number of different possible underlying morphemic origins for the sequence ba-e-da which can result from the deletion scheme, restated together here:

locative	ba+e+d+a	>	ba-e-da	
comitative	ba+e+d+da	>	ba-e-da	
genitive	ba+e+d+ak	>	ba-e-da	(anticipatory genitive)
-a + word boundary	ba+e+d+a+#	>	ba-e-da	(regens of a genitive)
-a + locative	ba+e+d+a+a	>	ba-e-da	(locative often elided)

Some of the old problem of determining the functions of infinitival /ede/ vs. /eda/ forms may stem in part from such multiple possible origins of the /ba-e-da/ sequence.

In the example sets to follow, textual references for verbal forms which could feature a phonotactically concealed /d/ will be avoided to lessen confusion in the basic presentation of data. At the end of this lesson, however, a selection of passages has been assembled which could reasonably be adduced to illustrate a concealed final /d/.

ORTHOGRAPHIC PECULIARITIES ASSOCIATED WITH THE INFINITIVE OR PARTICIPLE

It is not uncommon for an infinitive showing the /d/ suffix to feature a verb which does not look like a proper marû stem as here currently understood. Compare the following:

```
kuš e-sír é-ba-an 2-a kéš-re<sub>6</sub>-dè

To tie sandles into two pairs

(PDT 361:4-5 Ur III)

60 sa gi ki PN-ta a-šà kéš-e-dè maš-maš-e šu ba-ti

Mašmaš received 60 bundles of reed from PN to tie up a field

(Nik II 182:1-4 Ur III)

324 sa gi ka i<sub>7</sub>-da i<sub>7</sub> damar-dsuen é ĝá-ra kéš-dè

324 bundles of reed at the canal-mouth, the canal of Amar-Suen, to bind up an established house

(Kang, SACT II 161:1-4 Ur III)
```

The first reference shows a <u>plene</u> (full) form of the infinitive; the second shows a slightly simplified plene writing; the last shows an abbreviated writing. Compare the writing dù-dè generally found in texts from before Ur III, as in the Gudea inscriptions, with the plene writing dù-ù-dè which is standard in later texts. Other roots, especially those featuring an /u/ vowel, show the same tendency to abbreviated, non-plene writing of the marû stem particularly in earlier texts. For example, 'to feed (animals)' is normally written gu₇-dè in OS or Ur III texts, e.g. še-numun še anše gu₇-dè 'seed barley and barley to feed the donkeys' (Bauer, AWL 21:2 OS); or gu₄-ĝu₁₀ gu₇-dè hé-na-ab-šúm-mu 'let him give

my ox to him to be fed' (Sollberger, TCS 1, 3330 rev. 1'-3' Ur III). One might conjecture that the spoken language in such cases supplied the lengthened vowel needed to indicate a marû stem generated by an assimilated -e suffix. In the written language the presence of a following /d/ element may have been felt to be a sufficient indicator of the presence of a marû stem. As M. Powell suggested (Fs. Diakonoff [1982] 317): "Verb roots with vowels in final position are rarely written plene in the infinitive because it is not necessary to do this to avoid confusion."

In some cases native sign lists justify our choosing a sign value that shows a homorganic final vowel (überhängender Vokal) to produce a desired lengthened marû stem where needed. An example can be seen in the writing of the infinitive as uru₁₂-dè 'to level'; the hamţu stem is simply the same sign read ùr. Many roots containing a /u/ vowel show this property, e.g. kúr/kúru 'to alter', ku₅/kudr/kur₅/kuru₅ 'to cut', tuk/tuku 'to have', or ur₁₁/uru₄ 'to plow'. In other cases no such native justification exists, but the same phenomenon may be at work. Cf. Gilgameš and Aga 58: dímma-ni hé-sùh(u) galga-ni hé-bir-re 'so that his reasoning will become confused, his judgment disarrayed'.

More problematic has been the very common writing AK-dè 'to do, make', for which M. Powell in his study of this verb (loc. cit.) posits for infinitives the allomorph kè(AK) before modal /d/. P. Attinger, a student of Edzard, proposes in his later study in Zeitschrift für Assyriologie 95 [2005] 46ff. & 208ff. the alternate analysis of an allomorph /k/ before modal /ed/. Such interpretations argue for the analysis {AK+e+d+e} > kè-dè, a form showing a proper marû stem plus /d/ and the locative-terminative. Note that the value kè for the AK sign is attested in the OB Proto-Ea signlist and, further, that a variant syllabic writing ke₄-dè is found in texts from Ur III Garšana (Jagersma 2010 §28.7).

Finally, cases exist where no simple orthographic explanation can easily be found for apparent hamţu stems in imperfective contexts. In earlier texts in particular one can suppose that abbreviated, "morphographemic," or "mnemonic" writing is at work in such cases, in which a hamţu root is written but the corresponding marû stem is supplied by the reader. M. Civil now notes that "a verbal stem in the marû-theme ... can be written with the corresponding hamţu form in apodoses of the Code of Ur-Namma" (CUSAS 17, 236f.). Compare two parallel lines from royal inscriptions of Šu-Sîn (CDLI P432280: 219'-222') and Utuheĝal (CDLI P216798: 5-7), the first of which employs proper marû stems, while the second employs corresponding hamţu stems:

lú mu-sar-ra-ba šu bí-íb-ùr-ùr-a mu-ni bí-íb-sar-re-a lú mu-sar-ra-na šu bí-ín-ùr-a mu-ni bí-íb-sar-a A person who shall erase this/his inscription and shall write his name upon it

SYNTACTIC PECULIARITIES ASSOCIATED WITH THE PARTICIPLE OR INFINITIVE

1) Often one encounters a participial or infinitival construction which lacks a subject (patient) head noun or required agent. In many of these cases one may posit an elliptical noun, typically <\u00edu> or <\u00edn\u00e3p>, to understand the underlying structure. A nice literary example featuring ellipsis of both agents and patients is Sulgi Hymn B 175-176 (Ur III):

```
<níĝ> húl-húl-le-me-en <lú> <níĝ> du<sub>10</sub>-du<sub>10</sub>-ge-me-en <lú> giri<sub>17</sub>-zal nam-nun-na u<sub>4</sub> zal-zal-le-me-en (A man) making all (things) joyous am I, (a man) making all (things) pleasant am I, (a man) making all the days pass in splendor and pomp am I (Note plural/intensive reduplication in addition to marû –e-)
```

With this compare a parallel passage from Šulgi Hymn A 55 without ellipsis of either patient or agent:

```
<sup>d</sup>šul-gi lú níĝ lu-lu-me-en
Shulgi, a man who makes things numerous am I
```

Some other examples:

PN ugula il-ne $\{il+(e)ne+\emptyset\}$

PN nu-bànda íl-ne

PN, the foreman / overseer of porters

(DP 140 3:2 & 142 3:3f. OS)

Elliptical for <\liu'\u00e4\\u00e3\rangle <\ni\u00e3\rangle il 'thing-carrying personnel'

mu nu- \hat{g} ál-la-ka {nu+ \hat{g} ál+a+ak+a}

mu hé-ĝál-la

In a year of (things) not being present (i.e. of want)

A year of (things) indeed being present (i.e. of plenty)

(Edzard, SRU No. 54 2:15/18 OAkk)

 $húl-húl-le-gadu_{10}-du_{10}-ge-gadu_{10}+a$ { $dug-dug+e+gu_{10}+a$ }

About my causing (people) to rejoice and making (things) pleasant

(Šulgi E 33 Ur III)

 d nin-men-na-ke₄ tu-tu al-ĝá-ĝá $\{tu(d)-tu(d)+\emptyset\}$

Ninmena was setting up giving birth (to people/animals)

(Hymn to the Hoe 27 OB)

uri₅^{ki}-ma ur-bé úr bàd-da si-im-si-im nu-mu-un-ak-e

The dogs of Ur no longer do sniffing (of things) at the base of the city wall

(Lament over Sumer and Ur 350 OB)

lá-a-ne-ne nu-ta-zi $\{lá+a+(a)nene(+ta)\}$

From their surplus (items) it has not been deducted

(Nik I 271 4:1 OS)

2) When a marû participle serves as the regens of a genitive construction, the rectum represents the implicit subject or patient of the participle:

ùnu-dè du₉-du₉ ^{dug}šakir-ra-ka-na u₄ im-di-ni-ib-zal-e

{šakir+ak+ani+a}

The cowherd spends his day in his churning of the churn

(Enki and the World Order 30 OB)

zi-zi šú-šú tigi za-am-za-am-ma-ka ki bí-zu-zu-a

About how I always knew the places for the raising and lowering of the *tigi* and *zamzam* instruments (Šulgi E 34 Ur III)

3) A subject (patient), indirect object, or agent can be pronominalized, represented in the participial construction by a possessive pronoun:

é-gal-la-na níĝ-gu₇ la-ba-na-ĝál tuš-ù-bi nu-ub-du₇

{tuš+e+bi+Ø}

In his palace there was nothing for him to eat, <u>dwelling in it</u> was not fitting for it

(Lament over Sumer and Ur 307 OB)

ka-li a-šà šeš-sa₆-ga uru₄-bi in-du₁₁

 $\{ur_{11}+e+bi+\emptyset\}$

Kali ordered the plowing of Šešsaga's field

(Or SP 47-49, 147:1 Ur III, anticipatory genitive)

60 še gur ki dumu In-si-na^{ki}-ke₄-ne-ta ù še tuku-ni

 $\{tuk+e+(a)ni+\emptyset\}$

60 gur barley from the citizens of Isin and the barley which is being held by him

(TCS 1, 198:3-5 Ur III)

EXAMPLES FOR STUDY ORGANIZED BY GRAMMATICAL CONTEXT

HAMTU PARTICIPLE WITHOUT NOMINALIZING -a

The bare hamtu stem is a component of numerous common and proper nouns, including many different occupation terms, for example:

apin-ús	plow follower	> plowman
ga-naĝ	milk drinker	> suckling animal
gir ₄ -bil	oven heater	> oven tender
ĝír-lá	knife wearer	> butcher
gu ₄ -gaz	ox smiter	> cattle slaughterer
igi-nu-du ₈	not-seeing (person)	> blind(ed) worker
kù-dím	silver fashioner	> silversmith
lú-éš-gíd(-k)	person of cord pulling	> field surveyor
lú-kaš ₄	running person	> courier
lú-zàh	fleeing person	> fugitive
(lú-)má-gíd	boat pulling (person)	> boat tower
munu ₄ -mú	malt grower	> maltster
àga-ús(-ne) íl(-ne)	<pre>crown follower(s) <load> carrier(s)</load></pre>	> soldier(s), guard(s) > porter(s)
ki-nú ki-tuš níĝ-gu ₇ níĝ-ba	lying place sitting place eating thing alloting, distributing thing	> sleeping quarters > residence > food item > gift

It is also the stem seen in periphrastic compound verbs of the type ir si-im - a_5 'to perform scent-sniffing' > 'to smell' ki su-ub - a_5 'to perform ground-rubbing' > 'to prostrate oneself' or u_{11} 'to do hand-touching' > 'to decorate'.

This kind of bare hamtu participle is common both in ordinary contexts and particularly in earlier literary texts, where it conveys an aspectual nuance that is difficult for us to distinguish from that of an imperfective participle. Examples:

```
Temple lifting (its) eye over the steppe
(Ent 16, 3:7 OS = temple name)

šu-níĝin 50 lú igi-níĝin dba-ú ga kù munu<sub>4</sub> kù <u>ba-me</u>
They are a total of 50 supervisory personnel of Ba'u
distributing sacred milk and sacred malt
(Genouillac TSA 5 13:1-4 OS)

še <u>hal-bi</u> íb-ta-zi zíz <u>ús-bi</u> šà-ba ì-ĝál
The (cost of the) distributing of the barley was deducted from it
```

The (cost of the) distributing of the barley was deducted from it, and the (cost of the) treading(?) of the emmer is included in it (Gelb, MAD 4 No. 39:16-17 OAkk)

ama <u>nu-tuku</u>-me ama-ĝu₁₀ zé-me a <u>nu-tuku</u>-me a-ĝu₁₀ zé-me I am one having no mother - you are my mother! I am one having no father - you are my father! (Gudea Cyl A 3:6-7 Ur III)

é-igi-íl-eden-na

 $\{nu+tuku+me+(e)n\}\ \{z\acute{e}+me+(e)n\}$

 $\{ba+me+(e)\S\}$

du₁₁-ga zi-da inim ki-bi-šè ĝar (Nudimmud) he of the righteous command, putting the word to its place (accomplishing it) (Šulgi D 316 Ur III) diĝir-re-ne-er gub-bu gal zu-ĝá In my knowing well (how) to stand (serving) before the gods (Šulgi E 17 Ur III) ^den-líl temen an-ki-bi-da šibir ùĝ ge-en-ge-né šu du8 $\{ge(n)-ge(n)+e\}$ su₄-un su₄-un-na-ni kur-ra dib-dib-bé me ní-te-na-ke₄ kìri šu ĝál Enlil, foundation of heaven and earth, holding onto (-e) the staff which makes the people secure, whose beards pass over the mountains, making obeisance to his own divine powers (Šulgi E 1-4 Ur III) dnin-a-zu gu4-sún naĝ-a ad-ba gù di-dam Ninazu, like a wild cow that makes noise with its voice in drinking {Šulgi X 94 Ur III) mu en-nun-e dama-dsuen-ra ki-ág en eriduki ba-hug Year: Noble-High-Priest-Loving-Amar-Suen was installed as high priest of Eridu (Amar-Suen year 8 Ur III, personal name) di₇-lú-ru-gú šà diĝir-re-e-ne en ka-aš bar níĝ-érim-e hul gig ^dsuen-gin₇ níĝ-si-sá ki áĝ Ordeal River, heart of the gods, lord rendering decisions, hating evil, loving justice like Suen (Ibbi-Suen B Segment A 41'-43' Ur III) su-ĝá á-sàg níĝ-hul ĝál-e a im-ma-ni-ib-tu₅ In my body the evil-producing Asag demon took a bath (Man and His God 74 OB) (ergative –e) ur-saĝ usu ir₉-ra me galam-ma šu du₇ {galam+a+e} diĝir me-dím gu₄-huš igi bar-bar-re-dè du₇ a-a-zu ^dsuen-gin₇ zi ti-le ki ba-e-a-áĝ {til+e, ba- resumes -e} Hero, having mighty strength, making perfect the artful divine powers, god having the limbs of a fierce bull, fitting to be gazed at, god, like your father Suen you loved to enliven life. (Hymn to Numushda for Sîn-iqišam 37 OB)

How this simple hamţu-stem participle without suffixed -a differs in meaning from that of the marû participle is not always clear, apart from what meaning may be deduced from the difference in perfective vs. imperfective aspect. The compilers of the OB Lú lexical series were certainly aware of some sort of difference. Compare the use of different

gùd-bi-šè á dúb ì-ak-e

(Bird and Fish 111)

Toward its nest it (Bird) does wing-flapping

{dúb+Ø V+ak+e+Ø}

Akkadian expressions to render hamţu vs. marû participles in the following pairs of bilingual lexical entries (OB Lu B ii 7/9/23/25); the translations follow the Akkadian.

lú níĝ tuku = $\check{s}a$ -a-ru-u-um rich, prosperous

lú níĝ tuku-tuku = ra-a- $\check{s}u$ -u acquisitive, one who acquires

lú téš tuku = $\check{s}a \ bu-u\check{s}-tam \ i-\check{s}u-\acute{u}$ one who has dignity lú téš tuku-tuku = $ba-a-a-\check{s}u-\acute{u}$ very decent(?)

HAMTU PARTICIPLE WITH NOMINALIZING -a

iri-ka-gi-na lugal lagas^{ki} lú é-ninnu <u>dù-a</u> Irikagina, king of Lagaš, who built the Eninnu temple (Ukg 10-11 4:5-9 OS)

en-mete-na énsi lagas^{ki} ĝidri <u>šúm-ma</u> ^den-líl-lá ĝéštu <u>šúm-ma</u> ^den-ki-ka šà <u>pà-da</u> ^dnanše Enmetena, governor of Lagash, given the scepter by Enlil, given understanding by Enki, chosen by the heart of Nanshe (Ent 28-29 5:19-27 OS)

udu $\underline{gu_7-a}$ ur-du₆ šùš-kam It is a sheep eaten (i.e. used) by Urdu the š.-official (Nik I 150 2:4ff. OS)

5.0.0 še gur-saĝ+ĝál [...] é-gal-ta <u>er₁₄(DU.DU)-ra-ne</u> ì-gu₇ 5 g.-measures of barley were eaten by the [...] who came from the palace (Nik I 133 3:1-5 OS)

3(bán) NUNUZ.KISIM₅xTÍTAB <u>àr-ra</u> 2(barig) NUNUZ.KISIM₅xTÍTAB <u>nu-àr-ra</u> 3 bán of ... (cereal) ground; 2 barig of ... (cereal) not ground (DP 75, rev. 2:6-3:1 OS, a beer ingredient)

mu nu-bànda ù gàr-du ^damar-^dsuen kaskal-ta <u>er-ra-ne-šè</u> (Small cattle) for the overseers and soldiers of Amar-Suen who had come in from the road (Legrain, TRU 334:2-3 Ur III)

gù-dé-a lú é <u>dù-a-ka</u> nam-ti-la-ni mu-sù She shall prolong the life of Gudea, the man of the temple building (Gudea Statue A 3:7-4:2 Ur III)

an numun <u>è</u> a-a níĝ-nam <u>šár-ra</u>

An, who made the seed come forth, father who made everything numerous (Ur-Ninurta A 30 OB)

Unless the first participle is simply not nominalized note here that a single -a suffix appears only on the last of two participles, a common occurrence.

Note also the somewhat rare nominalized roots used as nouns such as ti-la 'life'.

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 $\{er_{14}+a+(e)ne+e\}$

 $\{er+a+(e)ne+še\}$

MARÛ PARTICIPLES WITHOUT NOMINALIZING SUFFIX -a

The bare marû stem is a component of numerous nouns, including many occupation names and proper nouns, for example:

lú-ka δ_4 -eperson doing running> runner sig_4 -dím-mebrick fashioner> brickmakerumbin-ku $_5$ -ku $_5$ nail cutter> manicuristzi-durighteous goer> righteous person

é-me-ur₄-ur₄ Temple That Gathers (All) The Divine Powers

i₇-lú-dadag River That Purifies (<*dag-dag) a Person (the ordeal river)

i₇-NINA^{ki}-šè-du Canal Going to NINA

nin-lú-ti-ti Lady Who Makes A Person Live (PN) lugal-níĝ-lu-lu King Who Makes Things Numerous (PN) me-al-nu-di He Who Does Not Desire Divine Powers (PN)

Over and above its use in such nominal formation, the marû participle is a ubiquitous and productive feature of the Sumerian language, especially common in literary contexts. Marû participles have both verbal and nominal characteristics. In the collection of examples that follow it will be seen that they can be negated with the verbal preformative nu- and, as nominal chain attributives, they can appear with pronominal suffixes or the personal plural marker -(e)ne in addition to case markers.

MARÛ PARTICIPLES FOLLOWED BY POSSESSIVE OR DEMONSTRATIVE PRONOUNS

naĝa₄ mah ^dnanše ki-gub-ba-bé tag_4 -e-ba tag_4 -e-ba tag_4 -e-bi+a

Upon that one (-bi) leaving the great mortar of Nanše on its pedestal

(Ean 62 side IV 3:7'-8' OS)

šà-ge du₁₁-ga eme-a ĝá-ra-a { \hat{g} ar+a+ak} a-ba-a \hat{g} a-gin₇ búr-búr-bi mu-zu {a-ba+e}

Of what is said by the heart or put upon the tongue, who, like me, has known the interpreting of it? (Šulgi C 110-111 Ur III)

níĝ-lul níĝ-gi-na $\underline{\text{sar-re-bi}}$ a-na-gin₇-nam { $\underline{\text{sar+e+bi+}\emptyset}$ }

How is the writing of truth a lie?

(Šulgi B 327 Ur III)

balaĝ ki-áĝ-ni ušumgal kalam-ma $^{gi\bar{s}}$ gù-di mu tuku níĝ ad $\underline{gi_4}$ - $\underline{gi_4}$ -ni $\{gi_4$ - gi_4 -(a)ni+ $\emptyset\}$

His beloved harp, Dragon of the Land, his instrument which has a (famous) name, which makes the sound echo

(Gudea Cyl A 6:24-25 Ur III)

 u_4 -da u_4 ug_5 -ge- $\hat{g}u_{10}$ nu-un-zu { ug_5 +e+ $\hat{g}u_{10}$ +Ø} If she does not know my dying day

(Dumuzi's Death 12 OB)

kur sig itima kù ki ní te-en-te-en-zu

{ten-ten+zu+e}

é-kur é za-gìn ki-tuš mah ní gùr-ru-zu

{gùr+e+zu+e}

As for your deep mountain, the holy chamber, the place where you refresh yourself, your Ekur, the lapis lazuli house, the exalted residence bearing fearsomeness (Enlil A 76-77 OB)

gu₄-si-dili-gin₇ bàd e₁₁-dè-zu-ù

 $\{e_{11}(d)+e+zu+e\}$

At your knocking down a wall like a battering ram (CBS 11553:5' Šulgi hymn, cited PSD B 41 Ur III)

kíĝ-gi₄-a du-né šeg₉-bar-ra-àm ím-mi-da-né súr-dù^{mušen}-àm

 $\{du+(a)ni+e\}$

The messenger: at his going he is a wild ram,

 $\{im+e+d+(a)ni+e\}$

at his having to hurry he is a falcon (Enmerkar and Ensuhgirana 40 OB)

ki-tuš-bi daĝal-e-dè inim nu-kúr-ru-ni-a ĝá-ra ha-ma-an-du₁₁

 $\{nu+kur+e+(a)ni+a\}$

He commanded me to enlarge that residence with his word which shall not be altered

(CUSAS 17, No. 37 ii 45-47, OB Sîn-iddinam royal inscription)

MARÛ PARTICIPLES FOLLOWED BY ADVERBAL CASE MARKERS

Absolutive Subject -Ø

ki-sur-ra ^dnin-ĝír-su-ka-ta a-aba-šè maškim di e-ĝál-àm

 $\{di+\emptyset\}$

From the Kisurra of Ninĝirsu to the Sea there existed one(s) who performed the function of maškim

(Ukg 4, 7:12-16 OS)

é-ki-šuku-bi uz-ga èš ĝá-ĝá

 $\{\hat{g}\hat{a}-\hat{g}\hat{a}+\emptyset\}$ $\{biz-biz+e+\emptyset\}$

ne-saĝ-bi kur ĝeštin biz-biz-zé

Its ration-place house a treasure establishing shrines –

its first-fruits offerings a mountain always dripping wine –

(Gudea Cyl A 28:9-11 Ur III)

du₁₁-ga-ni an dúb-bu ka ba-a-ni u₄ te-eš di

 $\{dúb+e+\emptyset\}$

When she spoke it made heaven tremble,

when she opened her mouth it was a storm making noise

(Temple Hymns 97 OB)

u₄-bi-ta inim im-ma gub-bu nu-ub-ta-ĝál-la

 $\{gub+e+\emptyset\}$

Though in those days words standing on clay did not exist

(Enmerkar and the Lord of Aratta 504 OB)

u₄-bi-ta <inim> im-ma gub-bu hé-ĝál im si-si-ge ba-ra-ĝál-la-am₃

 $\{si(g)+si(g)+e+\emptyset\}$

Though in those days <words> standing on clay existed, putting clay (tablets) into clay (envelopes) certainly did not exist

(Sargon Legend 53 OB)

piriĝ nam-šul-bi-ta nu-kúš-ù ne-ba gub-ba-me-en

 $\{nu+kúš+e+\emptyset\}$

I am a lion never relaxing in its youthful vigor, who stands (firm) in its strength

(Šulgi A 42 Ur III)

nin₉ mul-mul làl ama ugu-za-me-en

{mul-mul+Ø}

Sparkling sister, you are the honey of the mother who bore you (Inana-Dumuzi C 22)

kur gul-gul ga-ša-an é-an-na-ĝen

{gul-gul+Ø}

I am the mountain destroyer, queen of the Eanna temple

(Eršemma No. 106:3 OB Emesal: ga-ša-an = nin, -ĝen = -me-en)

níĝ-GA buru5 dal-dal ki-tuš nu-pà-dè-dam

{dal-dal+Ø}

Possessions are flying birds which cannot find a place to alight (Sumerian Proverbs 1.18 OB)

ní-zuh é <u>bùru-bùru</u> ^{giš}ig <u>gub-bu</u> za-ra <u>suh-ù</u> A thief, burrowing into houses, making doors stand (open), {bùru-bùru+Ø, gub+e+Ø, suh+e+Ø}

pulling out door-pivots

(Good Seed of a Dog 12, JCS 24, 107 No. 1 OB)

Absolutive Patient -Ø

i₇ kù-ga-am₆ šà-bi dadag-ga-am₆ ^dnanše a zal-le hé-na-tùm A canal which is holy, whose contents are pure, let it bring constanting flowing water for Nanše (Ukg 4-5, 12:41-44 OS)

lugal-ĝu₁₀ útug mah kur érim-ĝál-la saĝ sahar-re-eš dub-bu ki-bal-a ša₅-ša₅ e-ne-er mu-na-an-šúm en ^dnu-nam-nir-re To my king: a lofty mace —which in the evil-doing land heaps up heads like dirt and breaks the rebel land – he gave to him, did Lord Nunamnir (Ur-Namma B 52-54 Ur III)

šeš-kal-la ù en-ú-bi-šu-e še ĝiš ra-ra ì-til Šeškala and Enubišu have finished threshing the barley $\{ra-ra+\emptyset\}$

(SET No. 265:1-4 Ur III)

a zi-[šà]-ĝál numun zi ù-tu šu-šè im-ma-ab-lá

 $\{\hat{\mathbf{u}}-\mathbf{t}\mathbf{u}(\mathbf{d})+\emptyset\}$

Lifegiving water, causing good seed to be born, he bound to the hand (Bird and Fish 6 OB)

The late lexical list Nabītu I 17 describes ù-tu(d) as the marû stem of tu(d).

é làl ì-nun ù ĝeštin ki sískur-ra-ka-na nu-šilig-ge mu-na-an-dù The house, (where) syrup, ghee, and grapes are unceasing at his

place of offerings, he built for him

 $\{nu+\check{s}ilig+e+\emptyset\}$

(Amar-Suen 11, 13-17 Ur III)

šà-ge du₁₁-ga eme-a ĝá-ra-a a-ba-a ĝá-gin₇ <u>búr-búr-bi</u> mu-zu

{búr-búr+bi+Ø}

Who knew, like me, the revealing of what has been spoken by the heart or put into upon the tongue

(Šulgi C 110-111 OB)

Ergative -e

šeš-a-ne-ne ku-li-ne-ne, èn tar-re im-mi-in-kúš-ù-ne His brothers and friends exhaust him (-n-) with questioning (-bi-) (Lugalbanda and Enmerkar 225-226 OB) (-bi- resumes –e)

{tar+e[?]+e} {Vm+b+n+kúš+e+ne}

Whether the stem of the verb is marû or hamtu is not clear; either way an instrumental ergative -e is required.

dištaran ki-en-gi-ra šà-ta níĝ-nam zu-ù di kalam-ma ki-bi-šè ì-kud-re The Ištaran (god of justice) of Sumer who knows everything from birth, he (the king) renders the verdicts of the country for that place (Šulgi X 142-143 Ur III) (or perhaps just hamţu {zu+e}?)

 $\{zu+e^2+e\}$

{du...du+e}

sig-ta du igi-nim-ta du-e á šed-bi-šè ní hé-eb-ši-te-en-te-en The one coming from above or from below refreshes himself under its cool branches (Šulgi A 32-33 Ur III)

Note that the ergative marker appears only on the second participle, at the end of the ergative nominal chain, likewise in the following example.

íl énsi umma^{ki}(-a) ^{a-šà}aša₅ kar-kar níĝ-érim du₁₁-du₁₁-ge e ki-sur-ra ^dnin-ĝír-su-ka e ki-sur-ra ^dnanše ĝá-kam ì-mi-du₁₁ Il. the ruler of Umma, taker of fields, doer of evil things. declared: "The boundary levees of Ningirsu and Nanše are mine!" (Ent 28 4:19-29 OS) Note ergative -e again falls only on the second participle, at the end of the chain.

 $\{Vm+bi+n+du_{11}\}$

 $\{ kar - kar ... du_{11} - du_{11}(g) + e \}$

nin en ù-tu-dè lugal ù-tu-dè dnin-men-na-ke4 tu-tu al-ĝá-ĝá Queen who gives birth to en's, who gives birth to kings, Ninmenna(k) establishes birthing (Hymn to the Hoe 26-27 OB)

{utud+e)} $\{tu(d)-tu(d)+\emptyset\}$

Conversely, here ergative -e appears three times at the ends of parallel chains, unless the -e on utud+e is the marû formative. The participle tu-tu lacks an overt patient, for which one may posit an elliptical <\ú\u>. This sort of ellipsis is especially common in later literary contexts.

^dnu-nam-nir en nam tar-tar-re kur níĝ daĝal-la-ba mu-zu im-mi-in-mah Nunamnir, the lord who decides the fates, made your name great in the wide lands (Hymn to Numushda for Sin-iqišam 42-43 OB)

{tar-tar+e}

{gaz-gaz+e}

gu₄ gaz-gaz-e dam-ni hé-en-gaz-e, udu šum-šum-e dumu-ni hé-en-šum-e May the man (elliptical <\u00edu>) who slaughters cattle slaughter his wife, may the man (<lú>) who butchers sheep butcher his child! (Curse of Agade 237-238 OB)

Locative-terminative -e

lú ninda tur ka-a gub-ba-gin, du-du-e nu-ši-kúš-ù Like a man who has put little food in his mouth, he does not tire at constantly going about (Gudea Cyl A 19:26-27 Ur III) (-ši- resumes –e)

^den-líl temen an-ki-bi-da šibir ùĝ <u>ge-en-ge-né</u> šu du₈ Enlil, foundation of heaven and earth, holding onto the staff which makes the people secure (Šulgi E 1-2 Ur III)

 $\{ge(n)-ge(n)+e\}$

buru₁₄ mah-ĝu₁₀ ní-bi íl-íl-i níĝ-ku₅ nu-ak-e Upon my huge harvest, raising itself up, no tax is imposed (Ur-Namma C 80 Ur III)

{íl-íl+e}

me-li-e-a u₄-dè šu-ni-a im-ma-ši-in-gi₄
u₄ úru <u>gul-gul-e</u> šu-ni-a im-ma-ši-in-gi₄
u₄ é <u>gul-gul-e</u> šu-ni-a im-ma-ši-in-gi₄
Woe, he has handed it (the city) over to the storm, he has handed it over to the city-destroying storm, he has handed it over to the house-destroying storm (Lament over Destruction of Sumer and Ur 175-177 OB)

{gul-gul+e}

u₄-bé á áĝ-ĝá kur-ra-ke₄ si <u>sá-sá-e</u> an hé-da-húl ki hé-da-húl On that day, over the correct performing of the orders of the netherworld may Heaven rejoice, may Earth rejoice! (Incantation to Utu 260-261 OB)

{sá-sá+e}

ì-ne-éš ^dutu u₄-ne-a ^dutu an-na <u>gub-bé-e</u> Now Utu on this day as Utu was standi

{gub+e+e}

Now Utu, on this day, as Utu was standing in the sky, (Enki and Ninhursaĝa 50-51 OB)
The plene writing suggests the stem is marû. The locative-terminative here has adverbial force.

ur-bar-ra sila₄ šu ti-a-gin₇ <u>ul₄-ul₄-le</u> im-ĝen Like a wolf capturing a lamb he came quickly. (Enmerkar and Ensuhgirana 49 OB) The locative-terminative here has adverbial force.

Locative -a

1 sila₄ <u>ù-tu-da</u> ba-úš 1 kid, died while being born (JCS 28, 222 No. 48:1 Ur III) {utud+a}

ki-bala kur bad-rá è-a-né <u>sùh-sah_4-a</u> u₄ mi-ni-ib-zal-zal-e At his having gone forth into the rebel lands, the distant lands, he spends his days in the crunching (of battle) (Inana E 25)

^dnin-tu ki-tuš [giri₁₇]-zal-la ki-tuš níĝ <u>lu-lu-a</u> ama ^dnin-tu bára tuš-a-né Nintu, mother Nintu, at her having sat down upon the dais, the seat of splendor, the seat that makes things abundant (Hymn to Nintu-Aruru 40 OB)

{lu-lu+a}

MARÛ PARTICIPLES FOLLOWED BY ADNOMINAL CASE MARKERS OR THE COPULA

dùr^{ùr} dili <u>du-gin</u>₇ Like a donkey stallion going alone (Šulgi A 74 Ur III)

 $\{du+gin_7\}$

mušen téš-bé nunuz <u>zuh-zuh-gin</u>₇
Like birds stealing eggs together

(Civil Or 54 (1985) 28 Ur III. possibly

{zuh-zuh+gin₇}

(Civil, Or 54 (1985), 28 Ur III, possibly plural reduplication)

lú a-šà ur₁₁-ru-ke₄ a-šà hé-ur₁₁-ru

Let the man of field plowing plow the field

(Proverbs 4.47 OB. Read the verb alternately as uru₄^{ru})

an ki téš-ba sig₄ gi₄-gi₄-àm

 $\{gi_4-gi_4+(a)m+\emptyset\}$

 $\{ur_{11}+e+ak+e\}$

Heaven and earth were crying out together

(NFT 180 2:2 OS)

ĝiš-hum-bi é-gal i₇-mah-ha me-lám gùr-ru-àm

 $\{gùr+e+(a)m+\emptyset\}$

Its (the boat's) cabin was like a palace in a great river, bearing divine radiance

(Šulgi D 359 Ur III)

lú ĝá ì-šub-ba ^dnanše-ka sig₄ dím-me-me

{dím+e+meš}

They are men fashioning bricks in the brickmold shed of Nanše

(DP 122 2:4-5 OS)

^dŠul-gi lú níĝ lu-lu-me-en ninda ĝiš ha-ba-ni-tag

 $\{lu-lu+me+(e)n\}$

I, Shulgi, being a man who makes things abundant, offered bread there

(Šulgi A 55 Ur III)

an lugal-da bára an-na-ka di si-sá-e-me-en

 $\{si-s\acute{a}+e+me+(e)n\}$

With An the king on the dais of An I administer justice correctly

(Enki and the World Order 74 OB)

MARÛ PARTICIPLES WITH PERSONAL PLURAL -(e)ne

ninda-bi saĝ-apin apin-dur sur_x(ERIM) è-è-dè-ne šu ba-ti

 $\{\dot{e}(d)-\dot{e}(d)+(e)ne+e\}$

Those breads were received by the plow-leaders bringing in the teams' cable-plows (VS 14, 75 4:1-4 OS)

ì-bi lú ì nu-zu-(ù-)ne ì-im-du₉-du₉-ne

 $\{nu+zu+e+(e)ne+e\}$

Its butter was being churned by men who did not know butter,

(Lament over Destruction of Sumer and Ur 335-336 OB) (-ù- = in a variant)

nu-zu-ù-ne im-ši-húl-húl-e-eš

 $\{< ni\hat{g} > nu + zu + e + (e)ne + \emptyset\}$

The ones who do not know <anything> shall greatly rejoice over it

(Uruk Lament E 28 OB)

ki-bi-šè ku₄-ku₄-da bí-in-eš en nam tar-re-ne

 $\{ ku_4-ku_4+d+a \} \{ tar+e+(e)ne+e \}$

That they (the looted treasures) should be brought back into their places

they commanded, did the lords decreeing destinies

(Nippur Lament 274 OB) (lit. 'spoke about the making return to their places')

MARÛ PARTICIPLES FOLLOWED BY THE NOMINALIZING SUFFIX -a

i₇-niĝin_x(NINA)^{ki}-du-a The Canal Going to Niĝin (Ukg 1 3:6' OS canal name)

tukum-bi a-zu igi-du₈-du₈-a ì-sa₆ kù-bi 2 gín

If a physician cures the eyesight, the silver for that will be 2 shekels

(Code of Ur-Nanna § d018 Ur III)

lugal ninda sa₆-ga <u>gu₇-gu₇-a</u> šuku-re <šu> im-ma-an-dab₅ The king who used to eat fine food (now) took rations (Lament over Destruction of Sumer and Ur 304 OB)

 $\{gu_7-gu_7+a+e\}\ \{ba-=-e\}$ $\{Vm+ba+n+dab_5+\emptyset\}$

[u₄ x] x nam-lugal-la an-ta è-dè-a-ba

men mah ^{giš}gu-za nam-lugal-la an-ta è-a-ba

 $\{\dot{e}(d)+e+a+bi+a\}$ $\{\dot{e}(d)+a+bi+a\}$

On that [day] when the ... of kingship was about to descend from above, when the exalted crown and throne of kingship had descended from above (Flood Story Segment B 6-7 OB)

{búr-búr+a}

lú inim-inim-ma lú èn-du búr-búr-ra A man of incantations, a man who interprets songs (Letter of Igmil-Sîn to Nudimmud-saga 8 OB)

ki-en-gi ki-uri bir-bir-re-a ki-bi-šè bí-in-gi₄-a

{bir-bir+e+a+Ø}

He who restored Sumer and Akkad which had been thoroughly/repeatedly scattered (Formula for Hammurapi Year 33 OB)

SIMPLE MARÛ PARTICIPLES WITH MODAL ELEMENT /d/

^dsuen mu-ni lú nu-du₈-dè

{ergative -e}

Suen, whose name no one can explain

(Gudea Statue B 8:48 Ur III)

nin an-ki-a nam tar-re-dè ^dnin-tu ama diĝir-re-ne-ke₄

{ergative -e}

The lady, when she was to decide fate in heaven and earth.

Nintu, mother of the gods, (Gudea Statue A 3:4-6 Ur III)

lú a-šà ur₁₁-ru-ke₄ a-šà hé-ur₁₁-ru

 $\{ur_{11}+e+ak+e\}$ {su-ub+e+d+ak+e}

lú še šu su-ub-bu-da-ke4 še šu hé-eb-su-ub-bé

Let the man of field plowing plow the field

Let the man who is to collect (esēpu) barley collect the barley

(Proverbs 4.47 OB)

níĝ-GA buru5 dal-dal ki-tuš nu-pà-dè-dam

 $\{nu+pàd+e+d+(a)m\}$

Possessions are flying birds which cannot find a place to alight

(Proverbs 1.18 OB)

di-ku₅ ka-aš bar-re-dè igi mi-ni-in-ĝál lul zi-bi mu-zu

 $\{bar+e+d+e\}$

She (Ninegala) has set her eye upon (-e) the judge about to render the decision and will make known the false and the true

(Nungal A 37 OB)

INFINITIVE WITH LOCATIVE-TERMINATIVE $\{\sqrt{(mar\hat{u})}+d+e\}$

1) Dependent upon a finite verb of speaking or commanding

me kù sikil-zu pa-è kè-dè á-bi mu-un-da-áĝ He instructed him to make your holy, pure me's resplendent (Enlil's Chariot = Išme-Dagan I 5 OB)

 $\{AK+e+d+e\}$

úr kù nam-ti-la si-a-ĝu₁₀ u₄-zu <u>sù-sù-dè</u> šul ^den-líl-le é-kur-ta á-bi mu-un-da-an-áĝ Enlil instructed him from the Ekur temple, O youth, to prolong your days upon my holy lap filled with life (Ur-Ninurta A 83f. OB) $\{si+a+\hat{g}u_{10}+e\}$

^dur-^dninurta lugal-e di-bi pu-úh-ru-um nibru^{ki}-ka <u>dab₅-bé-dè</u> bí-in-du₁₁ King Ur-Ninurta declared that this case was to be tried in the assembly of Nippur (OB Homocide Trial 17-19)

ki-nu-nir-ša^{ki} iri nam-dumu-gi₇-ra-ka-ni <u>kar-kar-re-dè</u> ba-ab-du₁₁ Kinunirša, her city of free citizens, was ordered to be plundered (Lament Over the Destruction of Sumer and Ur 179)

2) More loosely dependent upon another finite verb

tukumbi lú lú-ù kiri₆ ĝiš <u>gub-bu-dè</u> ki-ĝál in-na-an-šúm If a man gave uncultivated land to another in order to plant an orchard with trees (Code of Lipit-Ištar 12:50-53 OB)

gaz-dè ba-súm He was given over to be executed (Durand, RA 71, 125:6 OB)

(ba- resumes –e)

(ba-resumes -e)

 $\{gaz+(e)+d+e\}$

gaz-dè ba-an-šúm-mu-uš They gave him over to be executed (AnBib 12, 130ff.:59 OB)

PN PN₂-ra <u>su-su-dè</u> ba-na-gi-in PN was certified as having to replace it for PN₂ (NSGU 188:12'-14' Ur III)

šu-tur-bé mu-bé šu <u>uru₁₂-dè</u> ĝèštu hé-em-ši-gub If he shall set (his) mind to erasing the name on this inscription (Gudea Statue B 9:12f. Ur III) (-ši- resumes -e)

1 ma-na kù-luh-ha igi-nu-du₈-a $\underline{sa_{10}}$ - $\underline{sa_{10}}$ -dè PN, dam PN₂-ke₄ ba-de₆ PN, wife of PN₂, took 1 mina refined silver to buy a blinded slave (Edzard, SRU 42 1:1-5 OS)

1 udu-nita PN níĝ <u>gu₇-dè</u> ba-de₆ PN took 1 ram for eating (lit. for a thing to be eaten) (Selz FAOS 15/1 157 1:1ff. OS)

bar-udu siki PN-e garig <u>kè-dè</u> e-ne-lá PN weighed out to them wool sheep fleeces to be combed (Selz, FAOS 15/2 No. 95 4:1-2 OS)

gù-dé-a é ^dnin-ĝír-su-ka hur-saĝ nu₁₁-bar₆-bar₆-ra-gin₇ ù <u>di-dè</u> ba-gub Gudea made the temple of Ningirsu stand to be marveled at like a mountain of white alabaster (Gudea Cyl A 24:17ff.) PN ù PN₂ <u>su-su-dè</u> PN₃-ra ba-an-ši-ku₄-re-eš PN and PN₂ were made liable to PN₃ for replacing it (this money) (Steinkeller, Sales Documents 330:12-14 Ur III)

ár <u>kè-dè</u> la-ba-ab-du₇-un You are not fit for doing praising (of yourself) (Dialogue 2:59, JCS 20, 124 OB)

lú-zàh dab₅!-dè ĝen-na (Rations for PN) who had gone to seize a runaway person (Lafont, DAS No. 197:6 Ur III) Compare the following exactly parallel passage:

lú-zàh dab₅-dab₅-dè ĝen-na (Rations for PN) who had gone to seize runaway persons (Lafont, DAS No. 199:18 Ur III) {pl. reduplication}

3) Adverbial clauses (usually marked with -e) independent of a main verb

ù níĝ en-na ĝál-la-aš é-a-na lú <u>nu-ku₄-ku₄-dè</u> ama-ar-gi₄ mu-ĝar^{!?} Moreover, regarding whatever property of the lord that may exist, so that no one might enter his house (to take it) he established (his) freedom (Gudea Statue R 2:6-7 Ur III)

20 ĝuruš u_4 -4-šè e kuru $_5$ gi-né-dè 20 workers for 4 days to cut and make secure ditches (Oberhuber Florence 29 Ur III) (kudr here may feature a concealed /d/ or the /d/ may just be placed on the final verb in the clause)

 $\{kudr+e(+d)^{?}\} \{gin+e+d+e\}$

 $mu\text{-}\hat{g}u_{10}\;u_4\;ul\text{-}li\text{-}a\text{-}a\check{s}\;\hat{\underline{g}}\underline{\acute{a}\text{-}}\underline{\acute{q}}\underline{\acute{e}}\;ka\text{-}ta\;\underline{nu\text{-}}\underline{\check{s}ub\text{-}bu\text{-}}\underline{\acute{e}}$

 $\{nu+šub+e+d+e\}$

ár-ĝu₁₀ kalam-ma <u>a₅-a₅-dè</u> ka-tar-ĝu₁₀ kur-kur-ra si-il-le-dè

In order that my name be established for distant days and that it not fall from mouths, that my praises be performed in the nation, that my glory be proclaimed in all the lands, (Šulgi A 36-38 Ur III)

nam kur-kur-ra tar-re-da-né

{tar+e+d+ani+e}

u₄ saĝ zi-dè igi <u>kár-kár-dè</u> u₄-nú-a me šu <u>du₇-du₇-dè</u> zà-mu u₄ biluda-ka nin-ĝu₁₀-ra ki-nú ba-da-an-ĝar

As he was about to (or that he might?) decree the fate of all the lands, to inspect the good first day, to perfect the *me* on the day of the new moon, he put down a resting place for my lady at the new year, on the day of rites (Iddin-Dagan A 169-175 OB)

gù-dé-a é-ĝu₁₀ <u>dù-da</u> ĝiskim-bi ga-ra-ab-šúm Gudea, I will give you a sign of "my house is to be built" (Gudea Cylinder A 9:9-10 Ur III) $\{d\hat{u}+e+d+ak\}$

inim ^den-líl-lá zi-da <u>gel-èĝ-dè</u> gùb-bu <u>zu-zu-dè</u>

{Emesal for ha-lam+e+d+e}

den-líl lú nam tar-tar-re-dè a-na bí-in-ak-a-ba

To make the word of Enlil annihilate on the right and make it known to the left, Enlil, he about to determine all the fates, what did he do? (Lament of the Destruction of Sumer and Ur 164f. OB)

MODAL MARÛ PARTICIPLE {√(marû)+d} FOLLOWED BY NOMINALIZING -a OR LOCATIVE -a

Some modal participles or "infinitives" ending in /a/ can easily be understood from their syntax as relative clauses featuring the nominalizing suffix -a:

lú umma^{ki}-a e ki-sur-ra ^dnin-ĝír-su-ka-ka e ki-sur-ra ^dnanše-ka a-sà asa 5 tùm-dè an-ta bal-e-da ... den-líl-le hé-ha-lam-me {bal+e+d+a}

May Enlil annihilate the man of Umma who may come from above across the boundary ditch of Ningirsu, or the boundary ditch of Nanše,

in order to take away fields

(Entemena 28-28 6:9-16 OS, some understand instead as a finite verb am₆-ta-bal-e-da)

2/30 4 sìla ì-ĝiš mu ì túg-gé kè(AK)-da-šè

 $\{AK+e+d+a+ak+še\}$

(bí- resumes −a)

2/30 (gur) 4 silas of sesame oil for oil that is to be used on cloth

(CT 5, 38 2:2f. Ur III)

mu kišib lugal-é-mah-e tùm-da-šè kišib lú-igi-sa₆-sa₆ $\{tùm(u)+d+a+ak+še\}$

Seal of Lu-igisasa instead of the seal of Lugal-emahe which is to be brought

(Sigrist, Princeton 522:3-5 Ur III) With this compare the following:

mu kišib lugal-níĝ-lagar-e tùm!-a-šè kišib a-gu ì-ĝál $\{tùm(u)+a+ak+še\}$ Instead of the seal of Lugal-niĝlagare, which will be brought,

the seal of Agu was produced

(Sigrist, Princeton 1, 229:5-7 Ur III)

nam é dù-da lugal-na-šè ù ĝi₆-an-na nu-um-ku₄-ku₄ $\{d\hat{u}+e+d+a\}$

For the sake of the house that is to be built of his king

he does not sleep (even) at midnight (Gudea Cylinder A 17:7-8 Ur III)

Other modal participles show a locative suffix -a, which should be distinguished from the nominalizing element -a in

more careful analysis of texts. We must assume that since all the following feature relative clauses, they are marked with a nominalizing -a in addition to a final (elided) locative -a:

mu šar-kà-li-šarri púzur-eš₄-tár šagina é ^den-líl dù-da bí-gub-ba $\{d\hat{u}+d+a+a\}$

The year that Šar-kali-šarri stationed Puzur-Eštar the general at the temple of Enlil which was to be built

(Goetze, JAOS 88 (1968) 56 OAkk)

u₄ zà-mu ezem ^dba-ú níĝ-MÍ.ÚS.SÁ kè(AK)-da

On New Year's day at the festival of Bau when the betrothal gifts are to be made

(Gudea Statue E 5:12-13 Ur III)

u₄ a[n-k]i-a nam tar-[(tar-)re-d]a $\{tar(-tar)+e+d+a+a\}$

On the day when (all) the fates were to be decided in heaven and on earth

(Gudea Cylinder A 1:1 Ur III)

u₄ diĝir zi-da du-da $\{du+d+a+a\}$

On the day when the righteous god was to come

(Gudea Cylinder B 3:25)

kù-bi ki-su $_7$ -ta <u>šúm-mu-da</u> <inim> bí-in-du $_{11}$ (bí- resumes –a) "That silver is to be given from the threshing field," he said about it (Çiğ et al., ZA 53, 86-87 No. 24:8-9 Ur III) Though the patient inim is often omitted with this compound verb, the original locative rection is normally preserved in the nominal and verbal chains.

dub-šen kù lú igi <u>nu-bar-re-da</u> lú SU^{ki} elam^{ki} lú ha-kam-ma-ke₄ [igi i-ni]-in-bar The holy treasure box, upon which no person may look, the men of Simaški and Elam, the destroyers, looked upon (Eridu Lament A 86-87 OB)

"INFINITIVE" ENDING IN A COPULA

Infinitives featuring copulas are very common among the laconic remarks found in economic and administrative texts:

dah-dam (interest) is to be added gi-né-dam (testimony) is to be confirmed $\{gi(n)+e+d+am\}$ ku₅(d)-ru-dam (reed) is to be cut {kudr+e+d+am} su-su-dam (grain) is to be replaced tùmu-dam (item) is to be taken (money) is to be subtracted tur-re-dam (tablet) is to be broken ze-re-dam maš ĝá-ĝá-dam (loan) is to bear interest kišib ra-ra-dam seal is to be impressed

Frequently in economic texts one sees infinitives ending with a copula varying with an ordinary infinitive ending in locative-terminative -e, even though the syntax properly favors one or the other form. That the difference between the two constructions was felt to be slight is suggested from the following Ur III passage where the text has two infinitives ending in -e, dependent on a verb of speaking, while the passage repeated on the clay <u>envelope</u> covering the tablet shows the same infinitives ending in copulas:

iti šu-numun-a saĝ-šè lá-e-dè (envelope: lá-e-dam)
tukumbi nu-lá 2-àm tab-bé-dè (envelope: tab-bé-dam)
mu lugal ì-pà
To pay it (the silver) in the month Šu-numun-a, at the beginning(?),
and that if he has not paid it, to double it two-fold, (so) he swore (by) the name of the king
(Oppenheim, Eames Collection P1 7-11 Ur III)

A few further examples of copular forms:

en-en-né-ne-šè <u>hal-ha-dam</u>
(The offerings) are to be distributed to all the (ancestral) lords
(DP 222 12:1'-2' OS)

ig ^{giš}eren-na é-a šu₄-ga-bi ^diškur an-ta gù-nun <u>di-da-àm</u>
Its doors of cedar that stood in the temple were (like) Iškur
(the rain god) making a loud noise from the sky
(Gudea, Cylinder A 26:20-21 Ur III)

šim^{na4} é-a šu₄-ga-bi é gudu₄ kù a nu-šilig₅-ge-dam

Its stone basins which stood in the temple were (like) the holy house of the lustration priest where water must never cease (Gudea, Cylinder A 29:5-6 Ur III)

lugal-hé-ĝál-e ezem-mah-šè <u>tùm-mu-dam</u> tukum-bi nu-mu-de₆ <u>sú-sú-dam</u>

It is to be brought in to the Great Festival by Lugal-heĝal;

if he has not brought it in (by then), it is to be replaced

(Fish, Catalogue 534:4-9 Ur III)

(i₇-zu) i₇ mah ki-utu-è igi <u>nu-bar-re-dam</u>

(Your river) is the great river at the place of sunrise, which is not to be looked upon

(Ibbi-Suen B Segment A 24' Ur III)

lú é lugal-na dù-dam énsi-ra

To the person who was about to build his king's house, the governor,

(Gudea Cyliner A 16:18f. Ur III)

POSSIBLE INSTANCES OF INFINITIVES/PARTICIPLES FEATURING A CONCEALED /d/

še-numun še gu₄ gu₇-šè PN-e GN-šè ba-de₆

 $\{gu_7+e+d+\check{s}\grave{e}\}$

PN took away to GN seed barley and barley for feeding the oxen

(Bauer, AWL 24 OS)

Compare parallel še-numun še anše gu₇-dè 'seed barley and barley to feed the donkeys'

 $\{gu_7+e+d+e\}$

(AWL 21:2 OS) where the terminative is replaced by the normal locative-terminative.

é-a-ni dù-ba mu-na-du₁₁

 $\{d\hat{u}+e+d+bi+a\}$

He spoke to him about that building of his house

(Gudea Cylinder A 1:19) (underlying verb: <inim> mu-na-ni-in-du₁₁, with -ni- resuming -a)

Compare the following parallel with explicit /d/:

é-a-ni dù-da mu-na-du₁₁

 $\{d\hat{u}+e+d+a\}$

He spoke to him about the building of his house

(Gudea Cylinder A 4:20)

igi utu-è ki nam tar-re-ba

{tar+e+d+bi+a}

Facing sunrise, that place where the fates are to be decided

(Gudea Cylinder A 26:3)

inim nu-kúr-ru-da-na ù-tu-ba bí-in-du₁₁

{nu+kúr+e+d+ani+a}

He commanded its having to be created with his unalterable word

(Numušda Hymn for Sîn-iqišam A 47 OB)

{utud+d+bi+a}

é-kur èš mah-a-na dím-me-za bí-in-du₁₁

{dím+e+d+zu+a}

(Enlil) spoke about your having to be fashioned in his Ekur, the exalted shrine

(Enlil's Chariot 2 OB)

é-e kur gišeren kuru5 nu-me-a

 $\{\text{kudr+e+d+Ø}\}$

urudu ha-zi-in gal-gal ba-ši-in-dé-dé

As for the temple, though it was not a mountain where cedar was to be cut,

he poured out (molten bronze in the form of) great axes against it

(Curse of Agade 112-113 OB)

kalam gi-né sig-nim gúr-e-dè

 $\{gin+e+(d)\}\ \{gam+e+d+e\}$

In order to make the nation secure and subdue the lower (lands)

(Ibbi-Suen 1-2 1:12-13)

The /d/ is also possibly marked only on the last verb of the clause.

```
\{d\hat{u}+e+d+\emptyset\}
é dù máš-a nu-mu-un-dè-ĝál
He could not produce a "must-build-a-temple" in the extispicy
(Curse of Agade 95 OB)
(èn-du-gu<sub>10</sub>) géštu-ge nu-dib-bé ka-ta nu-šub-bu-dè
                                                                            \{nu+dib+e+(d)\}\ \{nu+\S ub+e+d+e\}
So that (my songs) not pass by ears, not fall from mouths
(Šulgi X 57 Ur III)
In this and the next two references the case marker -e (and also -d- as well?)
is suffixed only to the last of the two infinitives at the end of the chain.
kalam gi-né sig-nim gúr-e-dè
                                                                                     \{gin+e+(d)\}\ \{gam+e+d+e\}
In order to make the land just and subdue the lower lands
(Ibbi-Suen 1-2 1:12-13)
eger-bé níĝ-na-me nu-ša<sub>6</sub>-ge-dè
é tuk<sub>4</sub>-e èrim ság di-dè
                                                                                            \{tuk_4+e+d\}\ \{di+d+e\}
dna-ra-am-dsîn máš-ĝi<sub>6</sub>-ka igi ba-ni-in-du<sub>8</sub>-a
                                                                                                 (ba- resumes –e)
When Naram-Sîn had seen in a dream that after this nothing would be pleasant,
that the houses would shake and the storehouses would be scattered
(Curse of Agade 84-86)
```

* * * * *

THE PRONOMINAL CONJUGATION

The pronominal conjugation refers to hamţu or marû participles conjugated by means of possessive pronouns. These constructions form simplified kinds of temporal relative clauses. They are mostly encountered in OB literary contexts, especially marû forms. There are two paradigms, one built on the hamţu stem with nominalizing -a suffix, the other built on the marû stem with the modal /d/ extension and nominalizing -a suffix, both then followed by pronominal suffixes. See Edzard 2003, p. 137-142 and Thomsen §519-521 for their descriptions of these forms with examples and discussion of some unresolved questions. The paradigms are as follows:

hamţu	1 sg.	ku ₄ -ra-ĝu ₁₀ (-ne)	$\{ku_4(r)+a+\hat{g}u_{10}+ne\}$
	2 sg.	ku ₄ -ra-zu(-ne)	$\{ku_4(r)+a+zu+ne\}$
	3 sg. pers.	ku4-ra-ni	$\{ku_4(r)+a+(a)ni\}$
	i.	ku4-ra-bi	$\{ku_4(r)+a+bi\}$
	1 pl.	_	
	2 pl.	_	
	3 pl.	ku ₄ -ra-ne-ne	$\{ku_4(r)+a+(a)nene\}$
marû	1 sg.	ku ₄ -ku ₄ -da-ĝu ₁₀ -ne	$\{ku_4(r)-ku_4(r)+d+a+\hat{g}u_{10}+ne\}$
	2 sg.	ku4-ku4-da-zu-ne	$\{ku_4(r)-ku_4(r)+d+a+zu+ne\}$
	3 sg. pers.	ku ₄ -ku ₄ -da-ni	$\{ku_4(r)-ku_4(r)+d+a+(a)ni\}$
	i.	ku ₄ -ku ₄ -da-bi	$\{ku_4(r)-ku_4(r)+d+a+bi\}$
	1 pl.		
	2 pl.	ku4-ku4-da-en-zé-en*	$\{ku_4(r)-ku_4(r)+d+a+enzen\}$
	3 pl.	_	

^{*}For this form, described as not attested by Edzard, see Michalowski, JCS 30 (1978) 115:4 (OB literary letter). This is probably an OB artifical creation.

Anomalous are the expressions du-ni 'when he comes/goes' and du-ne-ne 'when they come/go' (from or to a place) which occur frequently in administrative texts from ED IIIb through Ur III and which seem to be imperfective forms without either nominalizing -a or modal -d-.

The final suffix on 1st and 2nd sg. forms was previously read as -dè and connected with comitative -da (so Thomsen). Edzard 2003, following J. Krecher, reads it instead as -ne, with a locative meaning, based on a variant writing -né in a few eme-sal contexts. C. Wilcke now identifies this -ne as the demonstrative suffix -ne in RAI 53 (2010) 29-32. Jagersma 2010 §20.2 calls it an "old locational case marker ... without doubt cognate with the local prefix [ni] 'in'," and a "fossilized case marker" (§28.8). Compare the adverbial expression dili-zu-ne 'you alone, by yourself usually read dili-zu-dè. Not all current scholars read -ne instead of traditional -dè in these contexts.

In 3rd person occurences the possessive suffixes generally hide a locative-terminative postposition used with adverbial force. The -ne suffix on 1st and 2nd person forms may have served the same function. Hamtu forms may usually be translated "when, or while, someone did something," while the marû forms are normally given present-future translations occasionally with modal ideas like obligation or necessity, "when, or while, someone does, or has to do, or is about to do something." Examples:

PN <u>ti-la-né</u> šu ba-ti

 $\{til+a+(a)ni+e\}$

PN, when he was still alive, received it (the purchase price)

(BIN 8, 352 2:1-3 OS)

kaš-a gub-ba-né níĝ giri₁₇-zal kaš-ta tuš-a-né mud₅-me-ĝar

 $\{gub+a+(a)ni+e\}$

When she (the beer goddess) stood in the beer there was delight,

when she sat in the beer there was joy (Lugalbanda and Enmerkar 19-20 OB)

umma^{ki} e-bé bal-e-da-bé

{bal+e+d+a+bi+e}

Whenever Umma might cross over this ditch

(Ean 1 rev. 5:37-38 OS)

lú muš-mir-te-gin₇ bal-bal-e-da-né

{bal+bal+e+d+a+ni+e}

As for the man who was turning over and over like an m-snake

(Šulgi D 173 Ur III)

im tur-tur-e iri-a du-da-bé im gal-gal-e ság di-da-bé

 ${di+d+a+bi+e}$

za-e é-ubur-ra ma-ra-an-dù-ù-ne

When light winds go through the city, when great winds produce scattering,

for you indeed they build a milking house

(Sheep and Grain 134-136 OB)

še gur₁₀-gur₁₀-ru-da-zu-dè

 $\{gur_{10}-gur_{10}+e+d+a+zu+de\}$

When you have to reap the barley

(Farmer's Instructions 74 OB)

With the Sumerian locative-terminative postposition in this construction compare the use of the preposition *ina* 'in' in the following Akkadian glosses to an OB Nisaba hymn (Nisaba A 40-42):

é-engur-ra ki tuš-a-né abzu eridu^{ki}-ga dù-dù-a-né hal-an-kù šà kúš-ù-da-né a-gu-ur i-na wa-[ša]-bi-šu ap-sa-am e-ri-du i-na e-pe-ši-i-šu i-na ha-al-la-an-ku i-na mi-it-lu-ki-šu

When he (Enki) took his place in the Engur Temple, when he had built all of the Abzu of Eridu, as he was about to deliberate in the Halanku,

Finally, OB literary texts are replete with neologisms, providing anomalous forms which confound attempts to create universal paradigms. Here the pronominal conjugation co-occurs with a *finite* verbal form to give an uncertain temporal nuance to the clause:

```
eger-bi-šè ug-àm saĝ-bi-šè piriĝ-àm ug-e piriĝ im-sar-re piriĝ-e ug [im]-sar-re ug-e piriĝ im-[sar]-re-da-bé piriĝ-e ug im-[sar]-re-da-bé u4 nu-um-zal ĝi<sub>6</sub>-[u<sub>3</sub>-na] nu-ru-gu<sub>2</sub>
By its back side it was an ug-lion, by its front side it was a piriĝ-lion That piriĝ-lion chases after the ug-lion, that ug-lion chases after the piriĝ-lion.
While that piriĝ-lion was chasing after the ug-lion, while that ug-lion was chasing after the piriĝ-lion day did not pass, midnight did not oppose(?)
(Enmerkar and Ensuhgirana 82-87 OB)
```

In the following, combined marû and hamţu features produce an odd hybrid form:

```
tu-tu-a-zu ha-ra-gub-bu-ne {tu(d)-tu(d)+a+zu+e}
Let them stand by you while you are giving birth
(Enki and Ninmah 36 OB)
```

PRONOMINAL SUFFIXES ON FINITE VERBS

Perhaps comparable with pronominal conjugation constructions are a certain class of finite verbal forms featuring possessive pronoun suffixes. Confident translation of the stylistic nuance involved is often difficult. For example:

```
u<sub>4</sub> ba-zàh-dè-na-ĝá NIR-da hé-a bí-in-du<sub>11</sub> {ba+zàh+e+d+en+a+ĝu<sub>10</sub>+a} "On my day when I should flee may it be a felony" he declared (BE 3/1, 1:4-6 Ur III}

PN še hé-ĝál bí-du<sub>11</sub>-ga-ĝu<sub>10</sub> hé-na-ab-šúm-mu {b+Ø+dug<sub>4</sub>+a+ĝu<sub>10</sub>+e<sup>2</sup>} Let him give (the barley) to PN at my having commanded "Let there be barley!" (Sollberger, TCS 1, No. 115:2-6 Ur III)

eger-ra ba-úš-zu ga-na-ab-du<sub>11</sub> ér-zu hé-še<sub>8</sub>-še<sub>8</sub>
(If) afterwards I tell her about your "he died," she will cry tears about you (Gilgameš and Huwawa A 99 (106))

den-líl sipa saĝ-gi<sub>6</sub>-ga-ke<sub>4</sub> a-na bí-in-ak-a-bi Enlil, the shepherd of the Black-Headed, this (is) what he did to them (Lamentation over Sumer and Ur 72 OB)
```

VOCABULARY NOTE 3

Multiple Rection Verbs

Many verbs show variation in rection, indirect object case preference, in some cases possibly owing to the influence of Akkadian syntax. Common examples are si 'to fill into (-a)', ra 'to beat upon (-e)', and sìg 'to hit upon (-e/a), strike, smite'. In the following three example sets, the (a) passages demonstrate the normal rection, the (b) passages demonstrate the normal rection the normal rection that the normal rection the normal rection the normal rection that the normal rection the normal rection that the normal rection the normal rection that the normal

strate rection altered in the direction of instrumental ideas, and the (c) passages show ungrammatical conflations of rection marked by double case postpositions.

- (a) li ^{giš}ú-sikil kur-ra-kam izi-a bí-si-si
 Juniper, the pure plant of the mountains, he filled repeatedly into the fire
 (Gudea Cyl A 8:10 Ur III)
- (b) giš ig-bi mah-àm ul-la mi-ni-in-si Its doors (which) were lofty: he filled them with (-a) flowers (Ur-Namma B 26 Ur III)
- (b) GÁNA šuku sur_x(ÉREN)-ra, GÁNA gig-ga, a-e íb-si The subsistence field of the workers, a field of wheat, has filled with (-e) water (ITT 2 3116 = FAOS 19 Gir16 OAkk letter)
- (a) saĝ-du-bé tíbir im-mi-ra
 He caused (his) palm (-Ø) to strike upon (-e) their heads
 (JCS 21, 30 4:24f. Šū-Sîn inscription Ur III)
- (b) ká silim-ma-bi ^{giš}al-e bí-in-ra He struck the Gate of Well-Being with (-e) a pickax (Curse of Agade 125 OB)
- (c) é-kur za-gìn-na dù-a-ba ^{giš}al-e hé-em-mi-in-ra He struck with (-e) a pickax upon (-a) that lapis lazuli Ekur, all of it (Eridu Lament C 26 OB)
- (a) u₄ ^{gi§}tukul elam-a ba-sìg-ga
 The day when weapons struck in(to) Elam
 (BIN 9, 4-7, JCS 30, 196 n. 17))
- (b) umuš-bi in-sùh-àm líl-e bí-in-sìg-ga-àm
 He confused its judgment, he smote it with (-e) a wind-phantom (or: to the wind)
 (Nippur Lament 104 OB)
- (c) den-líl-le dur-an-ki-ka giš mitum-a ba-an-sìg
 Enlil struck upon Duranki (-a) with (-a) a divine weapon
 (Lament over Sumer and Ur 139 OB)

THE SUMERIAN VERBAL PREFIX CHAIN

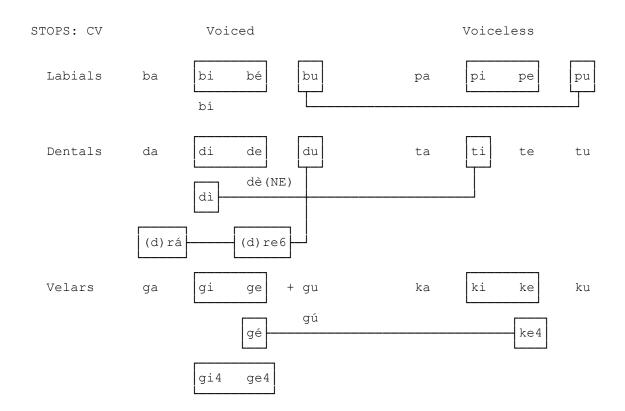
MODAL		VENTIVE	D	ATIVE	DIMENSIONAL PREFIXES CO	RE PREE	FIXES
PREFIXES	5	1 1			DA TA ŠI RA	L-T	Erg
		M	ВА	SINGULAR	Comitative, Terminative, and		T
hé		->		1 ma	Ablative-Instrumental may be preceded by a pronominal	 	
ga 	C o	-		2 ra	element (mu, e, n, b, ne) 	 	
na	n i			 3p na	Terminative Comitative ši {šè)	 	
na	u	<u> </u>		3i ba	da		
ba-ra	n c t		->	31 Da	(dè, di)	 ri 	 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
nu	i			PLURAL			İ
ù	e	->		1 me	a sg. Dative prefix except in emphatic Ablative sequences	ni ni	n
ši	nga			2 e-ne?	such as ma-da-ra-ta-è		
nu-uš 				3p ne	<>	ne ne	n-š
		->			LocTerm. function may only ded by a preformative	mu mu	- Ø
Imperati Transfor					m. bi- may only be preceded entive or a preformative	bi bi 	- b
Stative	al (evcenti		nreceded h	v i)- or nu-)		

Stative al (exceptionally preceded by ù- or nu-)

TABLE OF SYLLABIC SIGN VALUES: V, CV, VC

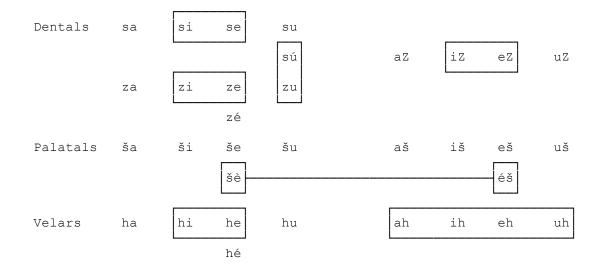
Syllables shown linked are written with the same sign.

VOWELS: a i e u ú $\label{eq:vowels} \mbox{'à i } \mbox{\dot{u}}_{8}$

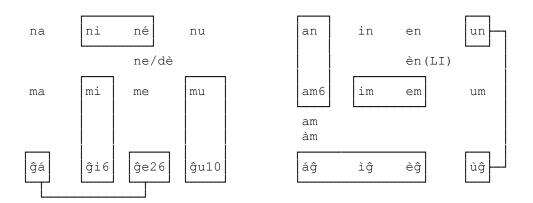


STOPS: VC Labials iВ еВ uВ аВ Voiced versus voiceless values are not íВ éВ distinguished by separate VC signs. iD Dentals eD uD B = b or pаD D = d or tG = g or kiG Velars аG еG иG z = z or s

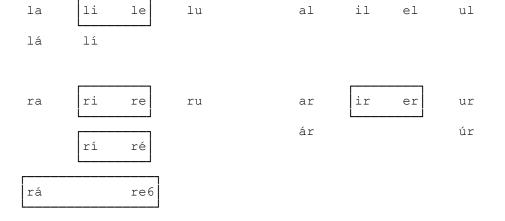
FRICATIVES



NASALS



LIQUIDS



THE EMESAL DIALECT

Eme-sal 'fine tongue' is usually described as an example of a linguistic women's language or dialect (sociolect), since it is mainly seen used in the speech of female deities in Sumerian literary contexts and in the language of 2nd and 1st millennium temple liturgies performed by the gala 'lamentation priest', an occupation almost exclusively of males of uncertain sexual orientation. Women's dialects are well known among the world's languages, some having linguistic features in common with the Sumerian example. There is, however, almost no evidence to show that emesal was actually spoken by Sumerian women in historical times. Furthermore, it has even been suggested that it may instead have served, or at least originated, as a geographical dialect (see most recently Josef Bauer in OBO 160/1 [1998] 435f. regarding OS Lagaš-Ĝirsu). Earlier scholars attempting to explain emesal were to some extent misled by the fact that the term sal is written with the MUNUS 'woman' sign, and until fairly recently it was thought that the Sumerian term for 'woman' was in fact sal, not munus. Now it is understood that emesal has something of the sense of 'fine, delicate, genteel, sweet speech', referring certainly to what might be described as a kind of softening of the spoken language brought about by the sorts of phonological modifications that characterize the dialect. See the exhaustive study of Manfred K. Schretter, *Emesal-Studien* (IBK Sonderheft 69, Innsbruck, 1990. also the 3-tablet Emesal Vocabulary, Materials for the Sumerian Lexicon IV (Rome, 1956) 1-44, for an overview of the sound correspondences in context.

Emesal differs from the main dialect eme-gir₁₅ 'native tongue' in two ways. In a few cases completely different words are employed. More often one sees certain types of phonological modification of both consonants and vowels. Since emesal modifies the pronunciation of common words, emesal words cannot be written logographically but must be spelled out syllabically, and syllabic spellings are a good sign that one is in an emesal context even if not all words in a particular text are consistently given proper emesal spellings. The following illustrate a few of the 150 or so known emesal spellings (see R. Borger, AOAT 305 [2003] 622f. for a convenient list of some 90 common examples):

Some word substitutions include:

ga-ša-an =	nin 'mistress'	mu-lu	=	lú 'person'
ir	túm 'to bring'	ta		a-na 'who'

Some phonological modifications include:

/m/<	'ĝ /	$/\hat{g}/$		
da -ma-al = dim -me-er $em(\hat{A}\hat{G})$ ma-al	daĝal 'wide' diĝir 'god(dess)' níĝ 'thing' ĝál 'to be'	e-ne-èĝ = na-áĝ- zé-èĝ	inim 'word' nam- (abstract formative) šúm 'to give'	
-mà(ĜÁ)	-ĝá 'in/of my'	$/b/ < /\xi$	g/	
mar me-ri mu -mu na-ma	ĝar 'to place' ĝìri 'foot' ĝiš 'wood' -ĝu ₁₀ 'my' naĝa 'alkali'	a-ba = zé-eb i-bí šà-ab	a-ga (àga) 'rear' dug ₃ 'good' igi 'eye' šag ₄ 'heart'	
$/\mathrm{u}/$	/	(other)		
su ₈ -ba(d) = u ₅ ù-mu-un uru	sipa(d) 'shepherd' ì 'oil' en 'lord' iri 'city'	du ₅ -mu e-zé = ka-na-áĝ li-bi-ir ši-pa-áĝ šu-um-du-um	dumu 'son' udu 'sheep' kalam 'nation' niĝir 'herald' zi-pa-áĝ 'breath' nundum 'lip'	

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NOUNS, NOUN PLURALS, ADJECTIVES

23

dumu-munus

Analyze morphologically using plus (+) symbol and translate, noting any possible alternate translations. All forms are absolutive nominal chains whose analyses must end with the marker -Ø. Some forms are nominal compounds, so check the glossary carefully.

0110011	2.000mly varviany.		
1	lú-ne	24	dub-sar mah
2	é-é	25	é-bappir
3	dumu-dumu-ne	26	^{uzu} ti, ^{uzu} ti-ti
4	diĝir gal		
5	diĝir-re-ne		
6	diĝir gal-gal-le-ne		
7	dumu zi		
8	hur-saĝ galam-ma		
9	níta kal-ga		
10	munus sa ₆ -ga		
11	nam-lugal		
12	ki-sikil tur		
13	ki Lagaš ^{ki}		
14	gu ₄ -áb-hi-a		
15	šu sikil		
16	bàd sukud-rá		
17	níĝ-ba		
18	šeš bànda		
19	nu- ^{giš} kiri ₆		
20	níĝ-gi-na níĝ-si-sá		
21	dumu-níta		
22	a-ab-ba sig		

NOUN PLURALS, POSSESSIVE AND DEMONSTRATIVE PRONOUNS

Analyze carefully and translate. Use the Glossary to identify any nominal compounds. Don't forget to put an absolutive -Ø at the end of each analyzed chain.

1 diĝir-zu 2 á dugud-da-ni 3 dumu-bi 4 ama kal-la-ĝu₁₀ 5 lugal-zu-ne-ne 6 ama-ne-ne 7 diĝir-bé-ne 8 diĝir-ra-né-ne 9 lú mah-bi 10 gú-ri 11 iri gal-me 12 $nam-ti-\hat{g}u_{10}$ 13 nam-ti-la-ni 14 ur-saĝ-zu-ne 15 níĝ-na-me 16 igi zi-da-ni 17 dub-sar tur-ĝu₁₀-ne 18 ki-tuš kù-ga-ni 19 a-a kal-la-ni nin igi sa $_6$ -sa $_6$ - $\hat{g}u_{10}$ 20

(Enlil and Sud 25 OB)

ADNOMINAL CASES POSSESSIVE AND DEMONSTRATIVE PRONOUNS

Analyze and translate; note all possible alternative analyses. Remember to use the absolutive postposition -Ø in the absence of any other case. This exercise employs the following case postpositions:

	locative -a 'in' terminative -šè 'to, toward	ls, for'	
1	é lugal-la	23	é-ĝá ^{giš} ig-bi
2	é lugal-la-na	24	lú iri-ke₄-ne é-é-a-ne-ne
3	é lú	25	i ₇ a-šà-ba-ka gú gibil-bi
4	é dumu-ne	26	ká iri-šè
5	é lú-ka	27	^{giš} ig ká iri-ka
6	é lú-ne-ka	28	lú é-gal iri-ba-ka-ke ₄ -ne-gin ₇
7	é-gal lugal-la	29	é ^d nin-ĝír-su-ka
8	é-gal lugal-ba-ka	30	dumu ^d nin-hur-saĝ-ĝá-ka-ke ₄ -ne
9	é-gal lugal-ĝá-šè	31	nam-ti énsi-ka-šè
10	é diĝir mah-e-ne	32	^d Inana nin kur-kur-ra nin É-an-na-ka
11	é diĝir-ra-bi	33	é me huš gal an-ki-ka-ni
12	é diĝir-ba-gin ₇	34	nu-bànda kù-dím-ne (OSP 2, 50 1:6/3:9 OAkk)
13	é mah diĝir gal-gal-le-ne-ka	25	
14	nam-lugal iri	35	ki-a-naĝ lugal-lugal-ne (RTC 316 Ur III)
15	é-gal nam-lugal-la-ĝu ₁₀ -šè		
16	ama dumu-dumu-ne		
17	ama dumu-dumu-ke ₄ -ne-gin ₇		
18	ir ₁₁ zi dam lugal-la-ka		
19	lugal kal-ga diĝir-ra-ni		
20	lugal-ĝá nam-kal-ga-ni		
21	é-ba diĝir mah-bi		
22	dumu-ne ama kal-la-ne-ne		

COPULA, INDEPENDENT PRONOUNS

^dEn-líl highest earthly god, patron of the city Nippur Deities ^dInana goddess of passion and conflict, patron of Uruk

> ^dIškur god of rain, patron of Karkar

^dNin-urta(-k) son of Enlil, farmer god and war god, patron of Ĝirsu

^dŠákkan god of wild animals

Places Ennigi^{ki} Ennigi, cult center of the chthonic healing god Ninazu

Sumer

Ki-en-gi(r) Úri(m) ki Ur, cult center of the moon god Nanna(r) (also written Uri₅(m)^{ki})

- bàd sud-rá-bi bàd é-gal-ĝá-kam 1
- 2 lugal nin Ki-en-gi-ra ì-me-en-dè-en
- é-bi é-gu₁₀ nu-um, ki-tuš kù en Úri ki-ma-ka-kam 3
- nin- $\hat{g}u_{10}$ dInana á-dah- $\hat{g}u_{10}$ -um 4 (Annal of Utuheĝal 29 Ur III)
- za-e: dIškur lugal-zu-um dŠákkan šùš-zu-um bar-rim4 ki-nú-zu-um 5 (Sheep and Grain 171 OB)
- 6 nar za-pa-áĝ-ĝá-ni du₁₀-ga-àm e-ne-àm nar-àm (Proverbs 2+6 A 73 OB)
- 7 ^dIškur-ra á-dah-ha-ni-me-eš (Lugalbanda and Hurrum 401 OB)
- a-ne-ne dumu Ènnigi^{ki} dumu Úri^{ki}-ma-me-éš 8 (Šulgi D 373 Ur III)
- ^dEn-líl en za-e-me-en lugal za-e-me-en 9 (Enlil and Ninlil 144 OB)
- 10 ur-saĝ an-eden-na men-bi-im eden-na lugal-bi-im (Enki and the World Order 354 OB)
- 11 ĝá-e ù za-e šeš-me-en-dè-en (Proverbs 8 D 2 OB)
- 12 an-na dili nun-bi-im ki-a ušumgal-bi-im (Enlil A 100 OB)
- ^dNin-urta ur-saĝ ^dEn-líl-lá za-e-me-en 13 (Ninurta B 29 OB)
- 14 sá-du₁₁ kas gíg du₁₀-ga-kam (Nik I 59 3:9 = TSA 34 3:10 OS)

15 me-bi kù-kù-ga-àm (Ibbi-Suen B Segment B 11 Ur III)

ADVERBAL CASES, ADVERBIAL EXPRESSIONS, DEMONSTRATIVES

Analyze and translate these nominal chains

1	u ₄ -bi-ta	24	ul ₄ -la-bé
2	u ₄ -ba	25	nam-bi-šè
3	u ₄ -ul-la-ta	26	téš-bi-šè
4	u ₄ -ri-a	27	u ₄ -dè-eš
5	gù nun-ta	28	ní-bi-šè
6	á kal-ga-ni-ta	29	dili-zu-šè
7	šà-húl-la-zu-ta	30	an-ta ki-šè
8	šà iri-ka	31	ugu saĝ-ĝá-na-ke ₄
9	šà iri-ba-ta	32	gú-e-ta gú-ri-šè
10	šà-bi-ta	33	ì-ne-éš
11	bar iri-ka	34	galam-šè
12	eger é-ĝá-ta	35	gal-le-eš
13	igi é-babbar-ra-ka	36	hur-saĝ an-ki-bi-da-ke ₄ (Grain and Sheep 1 OB)
14	igi-zu-šè	37	1/6 (gur) zíz ninda
15	igi-ba	31	Géme- ^d Nanše Munus-sa ₆ -ga-bi (DP 149 8:4-6 OS princesses)
16	ugu-ba		(DF 147 8.4-0 O3 princesses)
17	gú i ₇ -da-ke ₄		
18	gaba hur-saĝ-ĝá-šè		
19	da é-za-ke ₄		
20	da-bi-šè		
21	saĝ-bi-šè		
22	ul-šè		
23	mah-bi-šè		

SIMPLE PERFECTIVE VERBS, COPULA, ADVERBIAL EXPRESSIONS

1	za-e iri Lagaš ^{ki} -a ba-tu-dè-en?						
2	dumu iri-ba nu-me-en, ama- $\hat{g}u_{10}$ \acute{U} ri ki -ma in-tu-dè-en						
3	tukumbi lú énsi Lagaš ^{ki} -a-ka ì-me-en, énsi-ra a-na e-a ₅ ?						
1	ĝa-e, šitim saĝ iri-me-en, é-gal énsi kalam-ma-	ka ì-dù					
5	ù ku-li sumun-zu iri-me-a a-na in-a ₅ ?						
6	ku-li- $\hat{g}u_{10}$, na \hat{g} ar-ra- \hat{a} m, $^{gi\hat{s}}gu$ -za $^{gi\hat{s}}b$ an \hat{s} ur é-gal	énsi-ka-	ka in-dìm-dìm				
7	a-na-gin ₇ é-gal Lagaš ^{ki} -a e-dù?						
3	dili-ĝu ₁₀ -šè nu-dù, ĝiš-hur-bi ì-a ₅ , ùĝ iri-ke ₄ kíĝ	; íb-a ₅					
)	ir ₁₁ énsi-ka-ke ₄ im ^{giš} ù-šub-ba íb-ĝar, sig ₄ ki-sik	xil-la íb-c	du_8				
10	lú iri-ke ₄ -ne téš-bi-šè é-gal sig ₄ -ta in-dù-uš						
11	énsi é ^d Nin-ĝír-su diĝir Lagaš ^{ki} -a-ka-ka ì-ku ₄ , dam dumu-ni e-ne-da ì-ku ₄ -re-eš						
12	igi bára kù-ga-ka ì-gub, šu-ni alaĝ diĝir-ra-šè ir	n-zi sizk	ur in-a ₅				
13	énsi šà-húl-la-ni-ta é-ta u4-dè-eš ba-è, saĝ-ĝá-ni an-šè in-íl						
14	zi-da gùbu-na piriĝ ì-nú-nú (Gudea Cyl A 5:16 Ur III)						
15	Gù-dé-a ì-zi, ù-sa-ga-àm! ì-ha-luh, ma-mu-dam (Gudea Cyl A 12:12-13)	n!					
16	mu ^d Amar- ^d Suen lugal-e ^{giš} gu-za ^d En-líl-lá in-d (Date formula for Amar-Suen year 3 Ur III)	ím					
17	é-bi Ambar ^{ki} -a ì-dù-dù (Ukg 6 1:8'-9' OS))						
18	ĝalga kalam-ma sug-ge ba-ab-gu ₇ (Lamentation over Ur 232 OB)	21	Ka-tar nu-bànda-gu ₄ ù Ur- ^d Ma-mi šu-ku ₆ -e íb-gi-in (Falkenstein, NSGU 189, 4-6 Ur III legal text) (What is grammatically interesting in this line?)				
19	^d Ba-ú-al-sa ₆ (OS personal name) (^d Ba-ú is the chief goddess of the city Ĝirsu)	22	téš-bé mu lugal-la íb-pà (Fs. Sigrist 128 No. 1 rev. 8 Ur III legal text)				
20	Šu-ni-al-dugud (OS personal name)	23	inim-bi al-til (Edzard, SRU 54 3:27 OAkk legal text)				

PERFECTIVE VERBS, DIMENSIONAL PREFIXES

1	šu-nígin 5 udu nita eger gúrum-ma-ta udu siki-šè ba-dab
	(Nik I 155 4:1-4 OS)

- 2 ùĝ e-da-lu ùĝ e-da-dagal (Iddin-Dagan B 55 OB)
- 3 3 1ú anše $sur_x(ÉREN)$ -ke₄ ba- su_8 -ge-éš (HSS 3, 24 4:14-16 OS)
- ^dEn-líl lugal kur-kur-ra ab-ba diĝir-diĝir-ré-ne-ke₄ inim-gi-na-ta ^dNin-ĝír-su ^dŠára-bi ki e-ne-sur (Ent 28-29 1:1-7 OS)
- 5 1 sila₄ é-muhaldim-ma ba-sa₆ (Nik I 197 1:6-2:2 OS)
- 6 en a-ba e-diri a-ba e-da-sá? (Sjöberg, Mondgott Nanna-Suen 45:25 OB)
- 7 aga-zi nam-en-na mu-da-an-kar (Exaltation of Inana 107 OB)
- 8 ad-da-ĝu₁₀ mu-da-sa₆ (Schooldays 11 OB)
- 9 dub-a-ni mu-da-ĝál (TCS 1, 353:6 Ur III)
- dBa-ú-ma-ba (personal name)
- 11 lú Umma^{ki}-ke₄ E-ki-sur_x(ÉREN)-ra-ke₄ izi ba-szúm (Ukg 16 1:1-3 OS) (sur_x is here a variant writing for sur)
- mu a-rá 3-kam-aš Simurrum^{ki} ba-hul (Šulgi year 33 Ur III)
- 13 utu-è-ta utu-šú-uš èrim-bi ba-tur (Curse of Agade 195 OB)
- 14 èn ì-ne-tar (TCS 1, 135:9 Ur III - 1st sg. agent)
- 15 ad-da dumu-ni-ta ba-da-gur ĝuruš-bé á ^{giš}tukul-la ba-an-šúm (Lamentation over Sumer and Ur 95 OB)

ki-sikil-bé ki-e-ne-di ba-an-šúm di₄-di₄-lá-bé šà-húl-la ba-an-šúm (Curse of Agade 31-33 OB)

DIMENSIONAL PREFIXES. COMPOUND VERBS

An The sky god, source of kingship (written without a divine determinative)

^dIškur The god of rain

dEnlil Highest earthly god, source of governing power dNanna(r) The moon god, patron of the city-state of Ur Nibruki Nippur, the city of Enlil, Sumer's religious capital Ur-dNamma(-k) First king of the 3rd Ur dynasty (2112-2095 BC) Second king of the 3rd Ur dynasty (2094-2047 BC)

When you have identified the nominal chain representing a patient, use the glossary to check whether the patient and verbal root are considered to be a *compound verb* with a special meaning.

- 1 u₄-ri-a ^dnanna dumu ^den-líl-lá-ke₄ an-ta ki-šè igi zi-da-ni íb-ši-in-bar.
- ^dnanna diĝir urí^{ki}-ma-ke₄ šul-gi dumu ur-^dnamma-ka šà kù-ga-na in-pà.
- 3 lú 36,000-ta šu-ni íb-ta-an-dab₅, gù ì-na-an-dé:
- 4 "šul-gi-ĝu₁₀, šà kù-ĝá ì-pà-dè-en, ukkin diĝir-re-ne-ka nam-zu ba-tar!"
- 5 an-e nam-lugal an-ta ba-ta-an-e₁₁, šul-gi lugal uri^{ki}-ma-šè in-ši-in-ku₄
- dnanna-re suhuš ^{giš}gu-za-na ì-na-an-gi, bala sù(d)-rá nam-šè ì-na-an-tar.
- 7 den-líl-le é nibru^{ki}-ka-ni-ta nam-ur-saĝ nam-kal-ga níĝ-ba-šè ì-na-an-ba.
- 8 diškur-re a hé-ĝál-la i₇-da in-ĝál, bala hé-ĝál-la ì-na-an-šúm.
- 9 diĝir gal kalam-ma-ke₄-ne ùĝ urí^{ki}-ma-ke₄ nam-du₁₀ ba-an-tar-re-eš.
- nam-bi-šè lugal-le diĝir-ra-né-ne-ra gal-le-eš ki ì-ne-en-áĝ.
- šul-gi sipa kalam-ma-ke₄ níĝ-si-sá-e ki ba-an-áĝ, níĝ-gi-na ùĝ-ĝá-né ba-an-ĝar.
- 12 á ^den-líl-lá-ta ur-saĝ kal-ga ki-bala ^{giš}tukul-ta in-gaz, lugal-bi in-dab₅.
- ki-bala-ta kù-sig₁₇ kù-babbar-bi íb-ta-an-e₁₁, kisal ^dnanna-ra-ka in-dub.
- 14 u₄-ba lugal-le sig₄ in-šár, bàd iri-na in-dù, saĝ iri an-šè íb-ši-in-íl.
- 6 mah ^dnanna diĝir-ra-ni-ir ì-na-an-dù, alam diĝir-ra é-a in-ku₄.
- 16 u₄ zà-mu-ka-ka dili-ni-šè é diĝir-ra-na-šè ib-ši-ĝen, šùd ì-na-an-rá.
- "diĝir-ĝu₁₀, igi nam-ti-la-zu mu-ši-bar, inim-zu-uš ĝeštú íb-ši-ĝar";
- "nam-lugal kalam-ma ma-(a-)šúm. u₄-ul-lí-a-šè mu-zu kur-kur-ra mah-àm!"
- inim-ma-ni diĝir-ra-ni-ir ì-na-sa₆. šul-gi lugal-àm é-gibil-ta íb-ta-è.
- e-ne ì-húl. lú iri-ke₄-ne téš-bi-šè lugal-la-ne-ne-da in-da-húl-le-eš.

CORE PREFIXES

1	1 sila ₄ -ga ne-mur-ta ba-šeĝ ₆ , ki lugal-šè ba-an-ku ₄	4
	(Legrain TRU 327 1-3 Ur III)	

- 2 2 gu_4 ú 26 u_8 8 udu nita 2 $sila_4$ nita, 1 uzud, 1 máš gal 1 máš ug_7 - ug_7 -ga-àm géme uš-bar-e-ne ba-an- gu_7 -éš (Hilgert, OIP 115 66:11-10 Ur III)
- 3 gišmes-e saĝ bí-sa₆ (Gudea Cyl A 7:17 Ur III)
- 4 munus-e lú-igi-níĝin-ne ninda e-ne-gu₇ (DP 166 iii 6-iv 1 OS)
- 5 niĝir-e sila-sila-a si gù ba-ni-in-ra (Sumerian Letters B 12:3 OB)
- 6 bàd Unu^{ki}-ga gu mušen-na-gin₇ eden-na ba-ni-lá-lá (Lugalbanda and Enmerkar 305 OB)
- 7 érin-e di bí-íb-du₁₁ ba-ab-de₆ (NSGU 215:16 Ur III)
- 8 "udu-ĝu₁₀-um" bí-in-du₁₁ (NSGU 120a:9 Ur III)
- 9 kišib Lú-^dEn-líl-lá di-ku₅ íb-ra (UET 3, 41 rev. 3 Ur III)
- 30 šu-níĝin 60 máš-gal 8 uzud ur-gi₇-re ba-ab-gu₇ (PDT 346 rev. 13'-14' Ur III)
- še-šuku engar-re šu ba-ab-ti (Gomi, ASJ 3, 157 No. 119:6 Ur III)
- 12 giš eren-bé tùn gal-e im-mi-ku₅ (Gudea Cyl A 15:22 Ur III)
- im-ba igi ì-ni-bar (TCS 1, 224:17 Ur III)
- 14 1 é sar iri bar abul tur-ra-ka an-ĝál (Edzard, SRU No. 36:1-3 OAkk)
- 15 12 sìla ésir-é-a dug-ĝeštin(-e) ba-ab-su-ub (Contenau Umma 99:1-2 Ur III)
- nam-lú-ùlu-bé ^{giš}tukul ki bí-íb-tag (Lamentation over Sumer and Ur 394 OB)

17 eden-eden-na ú-làl bí-mú-mú (Nisaba Hymn for Išbi-Erra 111 OB) (D.D. Reisman Diss. (1970)

CORE PREFIXES, LOCATIVE, VENTIVE, PLURAL VERBS

Proper Nouns: Unu(g)^{ki} The city of Uruk

An The patron god of Uruk

Plural Verbs:	<u>Singular</u>	<u>Plural</u> :		<u>Singular</u>	<u>Plural</u>	
(hamţu)	de_6	lah ₄	'to bring, take'	tuš	dúr(-ru-un)	'to sit, reside'
	$du_{11}(g)$	e	'to do'	ĝen	re ₇	'to come, go'
	gub	$su_8(g)$	'to stand'			

- lugal sumun unu^{ki}-ga ba-úš. An-né dumu lugal-ba ^{giš}gu-za ad-da-na-ka bí-in-tuš.
- 2 é-gal sumun-na ^{giš}ùr-bi ba-šub, sig₄-bi ki-šè ba-ši-šub.
- 3 lugal gibil-le lú ^{giš}tir-ra-ke₄-ne ^{giš}tir-šè íb-ši-in-re₇-eš.
- 4 lú-bé-ne giš tir-ra ĝiš bí-in-kud-re₆-eš, ĝiš-bi giš ad-šè íb-ši-in-a₅-ke₄-eš.
- 5 gišad-bi iri-šè mu-un-de₆-eš, šà iri-ka im-mi-in-dub-bé-eš.
- 6 guruš kalam-ma-ke₄ é-gal gibil šà unu^{ki}-ga-ka mu-na-ni-ib-dù.
- 7 za-dím kalam-ma-ke₄ šà é-gal-ba-ke₄ ^{na4}za-gìn-na šu-tag ba-ni-ib-du₁₁.
- 8 u₄-ba lugal-e šà-húl-la-ni-ta ùĝ-e ĝišbun im-ma-an-ĝar.
- 9 šeš-a-ni ku-li-ni téš-bi-šè kisal é-gal-la-ka ib-su₈-ge-eš, silim mu-na-né-eš. (= -an-e-eš)
- da ^{giš}banšur-gal-la-ke₄ im-mi-in-dúr-ru-né-eš, e-ne zà-gu-la-a dili-né ib-tuš.
- kaš mu-ne-en-bal, lú-ù-ne in-naĝ-ĝe₂₆-eš.
- gúg ku₇-ku₇ gišbanšur-ra mu-ne-ni-in-ĝar-ĝar, lú-ù-ne in-gu₇-uš.
- gúg kaš-bi-ta šà-ga-ne-ne íb-ta-an-húl-le-eš;
- 14 ĝissu daĝal é-gal-la-na-šè ní íb-ši-in-te-en-eš.
- 15 u₄-bi-ta lú kalam-ma-ke₄-ne iri-iri-ne-ne-a silim-ma bí-in-dúr-ru-né-eš.
- lugal-le mu-ni kur-kur-ra ì-ni-in-mah,
- 17 ù lú-né-ne mu lugal-la a-ab-ba igi-nim-ta a-ab-ba sig-šè mu-ni-in-zu-uš
- nam-bi-šè ^dEn-líl itima kù-ga ba-an-ku₄ šà-ka-tab-ba ba-an-nú (Curse of Agade 209 OB)
- 19 ká silim-ma-bi ^{giš}al-e bí-in-ra (Curse of Agade 127 OB)

20 en iri-bar-ra en iri šà-ga líl-e ba-ab-lah₄-eš (Lamentation over Sumer and Ur 345)

VENTIVE

1	a-a-ĝu ₁₀ ^d En-líl-le mu-un-túm-en
	(Lugalbanda and Enmerkar 101 OB)

- 2 ù-šub mu-dúb sig₄ u₄-dè ba-šub (Gudea Cyl A 19:13 Ur III)
- 3 ki šà-húl-la ^dNin-líl-lá-šè ^dEn-líl ^dNin-líl-da mu-dì-ni-in-u₅ (Šu-Sin B 12:9-11, JCS 21, 34 Ur III)
- 4 e-bi I₇-nun-ta gú-eden-na-šè íb-ta-ni-è; e-ba na-rú-a e-me-sar-sar (Ent 28-29 2:1-5 OS)
- 5 ur₅ mu-du₈ šu-šu mu-luh (Gudea Statue B 7:29)
- 6 hur-saĝ Ur-in-gi-ri-az a-ab-ba igi-nim-ta ^{na4}nu₁₁-gal-e mu-ba-al im-ta-è útug ur-saĝ-3-šè mu-na-dím (Gudea 44 2:2-3:4, a sculpted mace-head)
- 7 PN₁ PN₂ šu-[i] lú-inim-ma-bi-[šè] im-ta-è-è-[eš] min-a-bé é ^dŠára-ka nam-érim-bi íb-ku₅ (NSGU 40:3'-8' Ur III)
- 8 dEn-ki-ke₄ An ki mah-a im-ma-an-tuš An-ra dEn-líl im-ma-ni-in-ús dNin-tu zà-gal-la im-mi-in-tuš dA-nun-na ki-ús ki-ús-bé im-mi-in-dúr-ru-ne-eš (Enki's Journey 106-109 OB)
- 9 abul-la-ba izi mu-ni-in-ri-ri (Exaltation of Inana 44 OB)
- 10 u₄ é ^dNin-ĝír-su mu-dù 70 gur₇ še é bi-gu₇ (Ur-Nanše 34 3:7-10 OS)
- 11 u₄-bi-a ku₆-e ambar-ra nunuz ki ba-ni-in-tag mušen-e ka ĝiš-gi-ka gùd im-ma-ni-in-ús (Bird and Fish 22-22 OB)
- 12 šà-ba gi-gun₄ ki-áĝ-ni šim-^{giš}eren-na mu-na-ni-dù (Gudea Statue B 2:9-10 Ur III)
- ú-du₁₁ sa₆-<ga->ni igi-šè mu-na-ĝen; Lamma sa₆-ga-ni eger-né im-ús (Gudea Cyl B 2:9-10)
- 14 áb zi-da amar-zi mu-ni-šár-šár ùnu-bi bí-ús u₈ zi-da sila₄-zi mu-ni-šár-šár sipa-bi im-mi-ús (Gudea Statue F 3:16-4:4 Ur III)

- 6-kur èš mah-a mi-ni-in-ku₄-re-en (Römer SKIZ 7:10 OB)
- 16 igi-bi šim-bi-zi-da mi-ni-gùn (Lugalbanda I 58 OB)

RELATIVE CLAUSES, NOMINALIZING SUFFIX -a

(DP 387 5:2-4 OS)

Consort of the god Ninĝirsu, chief goddess of Ĝirsu, Proper Nouns: dBa-ú ^dNin-líl Consort of the god Enlil, patron of Nippur Šarrum-kīn Sargon of Akkad, most famous of the Old Akkadian kings ^dŠu-^dSuen (Divinized) 4th king of the 3rd Ur dynasty 1 ùĝ saĝ-gíg-ga numun zi íb-i-i-a (Nippur Lament 17 OB) 2 En-an-né-pà-da (OS personal name) 4 ĝuruš engar šà-gu₄ iti Šu-numun-ta u₄ 26-àm ba-ra-zal-la-ta 3 iti Ezem-^dŠul-gi u₄ 21-àm zal-la-aš (Sigrist, Princeton No. 513:1-5 Ur III) 4 PN lú-ni, PN₂-da mu-da-ĝen-na-a, mu-túm (RTC 19 3:3-7 Ur III) šu-níĝin 20 lá-4 lú, lú dba-ú kur-re lah5-ha-me 5 (DP 141 6:1-2 OS) má-gur₈ ur₅-gin₇ dím-ma u₄-na-me lugal-na-me ^den-líl ^dnin-líl-ra nu-[mu-ne]-dím 6 (Civil, JCS 21, 34 13:6-11 Ur III) 7 kù-luh-ha saĝ-da sá-a (Nik I 294 i 4 OS) 5 ĝuruš gu₄-e ù anše ús-sa 8 (Yildiz-Gomi UTAMI 2233:2 Ur III) 50 (silà) ninda-šu éren ^{giš}kiri₆ ^dŠu-^dSuen-ka gub-ba ib-gu₇ 9 (Oppenheim Eames C 13:1ff. Ur III) mušen ^{giš}tukul kal-ga-zu bí-dab₅-ba-šè ... 10 (Ninurta and the Turtle B 17 ON) gištukul-e gub-ba gištukul-e in-gaz 11 (Lamentation over Ur 224 OB. Is there an error here?) ur-mah gi§ tukul-la bí-til-a- $\hat{g}u_{10}$ (Šulgi B 76 Ur III) 12 mu Šar-rum-kīn Si-mur-um^{ki}-šè ì-ĝen-na-a 13 kišib ra-a-bi 16 (Oppenheim Eames 158f. Ur III) (ECTJ 151:10-13 OAkk year name) 14 aša₅ zà Ambar^{ki}-ka ĝál-la-a 14 nin An-ra diri-ga

(Exaltation of Inana 59 OB)

PREFORMATIVES

1	énsi-bi ku-li-ĝu ₁₀ hé!
	(En I 35 5:2-3 OS)

- 2 PNN ^{giš}kiri₆ ĜÁ-dub-ba-ka aša₅-ga nu-gub-ba-me (MVN 7, 224 rev. 7 Ur III)
- diĝir-re-e-ne-er šu-mu-un-ne-mah-en (Išme-Dagan X 17 OB)
- 4 kal-ga-me-en lugal-ĝu₁₀ ga-ab-ús (Letter Collection B 1:9 OB Is there an error here?)
- 5 níĝ-na-me á-bé la-ba-ra-è (Curse of Agade 160 OB)
- 6 PN-šè ĝéštu-ga-ni ha-mu-šè-ĝál (VAT 4845 4:3-5 OS)
- 8 lú-na-me níĝ-na-me ugu-na li-bí-in-tuku (Letter Collection B 12:4)
- 9 A-tu-e "Á-ta má nu-ra-šúm" in-na-an-du₁₁ (NSGU 62:9-10 Ur III two persons involved)
- 10 ga-e-gi₄ Éreš^{ki} iri ^dNisaba-šè (Enlil and Sud 29 OB, unusual word order)
- an-ta hé-ĝál ha-mu-ra-ta-du (Gudea Cyl A 11:8 Ur III)
- 12 "ir nu-me-en" bí-in-du₁₁ (NSGU 34:4 Ur III)
- bàd Zimbir^{ki} sahar-ta hur-saĝ gal-gin₇ saĝ-bi hé-mi-íl, ambar-ra hu-mu-ni-in-níĝin. ⁱ⁷Buranun Zimbir^{ki}-šè hu-mu-ba-al, Kar-silim-ma-ke₄ hu-mu-ni-ús (Hammurapi Sippar Cylinder, KVM 32.1167 OB. The king is speaking)
- gala hé lú-bàppir hé agrig hé ugula hé ... (Ukg 1 4:26-29 OS)
- im-zu abzu-ba hé-eb-gi₄, im ^dEn-ki-ke₄ nam ku₅-rá hé-a! še-zu ab-sín-ba hé-eb-gi₄, še ^dÉzinu-e nam ku₅-rá hé-a! (Curse of Agade 231-234 OB)
- 16 saĝ-ur-saĝ-ĝu $_{10}$ -ne igi hu-mu-un-du $_{8}$ -uš (Šulgi A 77 OB)
- 17 ĝá-ka-nam-hé-ti (VS 14, 86 2:3 OS personal name referring to a child's birth)

THE IMPERATIVE

1	kù lá-ma! (Ukg 4-5, 11:26-27 OS)	
2	"é-dub-ba-a-šè ĝen-ù" mu-e-du ₁₁ (Scribe and His Perverse Son 22 OB)	
3	"bára kù-zu, húl-la-bé diri-bé, tuš-a!" hu-mu-ra-ab-bé (Eridu Lament C 48)	{hé+mu+ra+b+e+Ø}
4	PN_1 nu-bànda-ar "túm-mu-un!" ba-na-ab-du $_{11}$ PN_1 "ì-túm(u)" bí-in-du $_{11}$ PN_2 nu-bànda-ar lú Naĝ-su ki PN_3 -da in-da-ĝen-na "túm-mu-un!" in-na-an-du $_{11}$ (NSGU 121:10-17 Ur III)	
5	a-šà gala-a <i>Awīlum-ša-lim</i> -ra érin-e "uru ₄ -a!" in-na-ab-du ₁₁ (NSGU 215:44 Ur III. The -a on gala must be a genitive.)	
6	a naĝ-mu-ub-zé-en, ninda šúm-ma-ab-zé-en! (Schooldays 13-14 OB)	
7	ù za-e ù-sà-ga nú-ni! (Šulgi N = Lullaby 92 Ur III)	
8	ù-sá ĝe ₂₆ -nu ki du ₅ -mu-ĝá-šè! (Šulgi N = Lullaby 14 Ur III. Partly in Emesal dialect)	
9	eden i-lu ĝar-ù! ambar inim ĝar-ù! (Dumuzi's Dream 6 OB)	
10	èš Nibru ^{ki} Dur-an-ki-ka saĝ íl-la ĝen-né! (Ur-Ninurta E 42 OB)	
11	ninda gu ₇ -ni-ib! (VS X 204 6:7 OB)	
12	^d Nanna nam-lugal-zu du ₁₀ -ga-àm ki-za gi ₄ -ni-ib! (Lamentation over Sumer and Ur 514 OB)	
13	lugal-ra igi zi bar-mu-un-ši-ib! (Rīm-Sîn B 50 OB)	
14	e-ne-ra du ₁₁ -mu-na-ab! (Enmerkar and the Lord of Aratta 135 OB)	
15	"uzu níĝ sìg-ga ^{giš} gag-ta lá-a šúm-me-eb!" du ₁₁ -ga-na-ab-zé-en! (Inana's Descent 248 OB)	
16	tukum-bi lú-na-me "dumu-ĝu ₁₀ túm-ù-um!" ba-na-an-du ₁₁ (ZA 97, 4:9-10 OB legal)	

IMPERFECTIVE FINITE VERBS

1	^d En-ki-da bára kù-ga za-e ša-mu-un-dè-dúr-er
	(Ninurta G 15f. OB)

- ^dDumu-zi-abzu nin Ki-nu-nir^{ki}-ke₄ diĝir-ĝu₁₀ ^dNin-ĝiš-zi-da-ke₄ nam-tar-ra-ni hé-dab₆-kúr(u)-ne (Gudea Statue B 9:2-5 Ur III)
- 3 kíĝ nu-mu-ra-ab-ak-en (Winter and Summer 180 OB)
- 4 d'Gílgameš en Kul-aba^{ki}-ke₄ ur-saĝ-bé-ne-er gù mu-ne-dé-e (Gilgameš and Agga 51-52 OB)
- 5 šìr kù-ĝá-ke₄-eš ì-ug₅-ge-dè-en? (Exaltation of Inana 99 OB)
- 6 iši Za-bu^{ki}-a nir ba-ni-in-ĝál ama nu-mu-un-da-an-ti na nu-mu-un-de₅-de₅ a-a nu-mu-un-da-an-ti inim nu-mu-un-di-ni-ib-bé zu-a kal-la-ni nu-mu-un-da-an-ti (Lugalbanda and Enmerkar Epic 2-5 OB)
- 7 níĝ di-ba en-na ĝál-la íb-su-su (Code of Urnamma IV 46 Ur III legal text)
- 8 ^dNin-ki Umma^{ki} muš ki-ta ĝìr-ba zú hé-mi-dù-dù-e! (Ean 1 rev. r:34-36 OS)
- 9 dHa-ìa lú šìr-ra-ke₄ zà-mí-zu ka-bi-a mi-ni-ib-du₁₀-ge-ne (Haya Hymn = Rim-Sin B 55 OB)
- 10 šeš-a-ne-ne ku-li-ne-ne èn-tar-re im-mi-in-kúš-ù-ne (Lugalbanda and Enmerkar Epic 225-226 OB)
- 11 "10 gín kù-babbar šúm-ma-ab di ba-ra-a-da-ab-bé-en $_6$!" in-na-an-du $_{11}$ (NSGU 20:6-9 Ur III legal text)
- 12 níĝ im-ma íb-sar-re-a (Letter Collection B 19:10 OB)
- 13 énsi lú ĝèštu daĝal-kam ĝèštu ì-ĝá-ĝá (Gudea Cyl A 1:12 Ur III)
- lú é a-ba-sumun ù-un-dù, mu-sar-ra-bi ù ^{giš}šu-kár-bi ki-gub-ba-bi nu-ub-da-ab-kúr-re-a, igi ^dNanna-ka hé-en-sa₆; lú mu-sar-ra-ba šu bí-íb-ùr-re-a, ù šu-kár-bi ki-gub-
ba>-bi-šè nu-ub-ši-gi₄-gi₄-a,

muš ^dNanna hé-en-ĝar, numun-na-ni ^dNanna hé-eb-til-le (AmarSin 12 32-49 Ur III)

- dub-sar-me-en na-rú-a ab-sar-re-en (Letter Collection B 1:14 OB)
- IGú-TAR-lá dumu Saĝ-a-DU Diĝir-ĝu₁₀-da an-da-ti, Ki-lugal-u₅-a^{ki}-a ab-tuš;
 ILugal-nam-tág dumu Ur-ub Inim-ma nu-bànda an-da-ti, Bára-si-ga-^{ki}-a ab-tuš;
 dumu Nibru^{ki}-me Lagaš^{ki}-a ab-durun_x(TUŠ.TUŠ)-né-eš:
 ha-mu-ra-ne-šúm-mu
 (ITT I 1100:1-16 Ur III)
- 17 ùĝ-bé a-še-er-ra u₄ mi-ni-ib-zal-zal-e (Lamention over Sumer and Ur 481 OB)
- ki kù ki nam-ti-la ĝìri-zu hé-ri-ib-gub-bu-ne (Rim-Sin D 33 OB)
- anše-ba šu hé-eb-bar-re! (TCS 1, 72:6 Ur III)
- Na-ba-sa₆-ra ù-na-a-du₁₁: 5 ma-na siki Lú-^dIškur-ra ha-na-ab-šúm-mu! (TCS 1, 150:1-5 Ur III)
- šu-níĝin 12 igi-nu-du₈ Uru-inim-gi-na lugal Lagas^{ki}-ke₄ é-gal-ta e-ta-è-dè,
 Sa₆-sa₆-ra mu-na-šúm-mu
 (DP 339 vi 1-vii 3 OS, PNN are a king and queen of Lagas)

PARTICIPLES AND INFINITIVES

Note that several of the following are phrases, not complete sentences.

- balaĝ-di šìr zu-ne (Nippur Lament 119 OB)
- 2 dBa-ú-lú-ti (OS personal name)
- 3 naĝ-ku₅ da Umma^{ki}-ka, a-na ĝál-la, Ér-diĝir-e igi kár-kár-dam (YOS 4, 235:1-3 Ur III)
- 4 tukumbi dub Za-ra-ba-am 2-kam im-ma-de₆ ze-re-dam (PDT 231:6-9 Ur III)
- 5 dub Ús-mu ù-um-de₆ dub Ab-ba ze-re-dam (Contenau Umma 51 Ur III)
- 6 šu nu-luh-ha ka-e tùmu-da níĝ-gig-ga-àm (Proverbs 3.161 OB)
- 7 ĝissu-bi ki-šár-ra lá-a ùĝ-e ní te-en-te (Enki and the World Order 167 OB)
- 8 i₇-zu i₇ kal-ga-àm i₇ nam tar-ra-àm i₇-mah ki utu-è igi nu-bar-re-dam (Ibbi-Suen B 24 OB)
- 9 úr kù nam-ti-la si-a-ĝu₁₀ u₄-zu sù-sù-dè šul ^dEn-líl-le é-kur-ta á-bi mu-da-an-áĝ (Ur-Ninurta A 83f. OB)
- Hammurapi lugal kal-ga lugal Babila^{ki} lugal an-ub-da-límmu kalam dím-dím-me, lugal níĝ a₅-a₅-bi su ^dUtu ^dMarduk-ra ba-du₁₀-ga-me-en (Hammurabi Sippar Cylinder, KVM 32.1197 OB. Hammurapi is speaking.)
- balaĝ ki-áĝ-ni "Ušumgal-kalam-ma" ^{giš}gù-di mu tuku níĝ ad gi₄-gi₄-ni (Gudea Cyl A 6:24-25 Ur III)
- 12 šen-šen-na eme sù-sù-e-me-èn, muš-huš kur-re eme è-dè-me-èn (Šulgi C Segment A 15-16 Ur III)
- har-ra-an lú du-bi nu-gi₄-gi₄-dè (Inanna's Descent 84 OB)
- PN ká ^dNin-urta-ka nam-érim kud-ru-dè ba-an-šúm-mu-uš (Steinkeller, Sales Documents 73 n. 209, HSM 1384:20-22 Ur III)
- dŠu-ni-du₁₀ ì ga-àr-ra du₆-ul-du₆-ul-e ì ga-àr-ra nu-du₆-ul-du₆-ul ((Lament over Destruction of Sumer and Ur 334 OB)

- ká še nu-kuru₅-da še i-ni-in-ku₅ (Curse of Agade 123 OB)
- 17 itima é u₄ nu-zu-ba ùĝ-e igi i-ni-in-bar (Curse of Agade 129 OB)
- 18 lú tur gibil-bé é dù-ù-gin₇, dumu bànda^{da} ama₅ ĝá-ĝá-gin₇ (Curse of Agade 11-12 OB)
- dinana i-zi-gin₇ an-ta ní gùr-ru-a-zu-ne
 dnin-é-gal-la ki-a súr-dù^{musen}-gin₇ še₂₆ gi₄-gi₄-a-zu-ne
 (Inana as Ninegala [Inana Hymn D] 120-121 OB pronominal conjugation))
- nam-šub ^dnu-dím-mud-da-kam e-ne-ra du₁₁-mu-na-ab!
 "u₄-ba muš nu-ĝál-àm ĝír nu-ĝál-àm
 kir₄ nu-ĝál-àm ur-mah nu-ĝál-àm
 ur-gi₇ ur-bar-ra nu-ĝál-àm
 ní te-ĝe₂₆ su zi-zi nu-ĝál-àm
 lú-u₁₈-lu gaba-šu-ĝar nu-tuku"
 (Enmerkar and the Lord of Aratta 135-140 OB)