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## **A grammar of Lumun : a Kordofanian language of Sudan**

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a Kordofanian language of Sudan

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## Abbreviations and symbols

NB: Abbreviations used in interlinear glosses are in small capitals.

1	first person singular
12	first and second person singular
1A	first person plural exclusive
12A	first person plural inclusive
2	second person singular
2A	second person plural
3	third person singular
3A	third person plural
a.o.	amongst others
ABS	absolute form
adj.	adjective
ASS	associative element
ALLOW	particle expressing allowance (-na)
app.	appendix
ATT	particle claiming the attention of the hearer (-a)
BEN	benefactive suffix
C	concord
C	consonant
CAUS1	causative suffix -ε
CAUS2	causative suffix -ɛ
cf.	compare with (confer)
COMPL	completive TAM-stem
CONJ	conjunctive particle (á-)
COP	copula (c-á)
DEP	dependent verb form
DEPCOMPL	dependent completive TAM-stem
DEPINCOMPL	dependent incompletive TAM-stem
DEPPRFV	dependent perfective TAM-stem
DIM	diminutive prefix (ŋa-)
DIST	distal
e.g.	for example (Latin: <i>exempli gratia</i> )
e.o.	each other
excl	exclusive
fr.	from

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g.	gemination
HRT12	hortative pronoun, first and second person singular
HRT12A	hortative pronoun, first person plural inclusive
i.e.	that is (Latin: id est)
IMP	imperative TAM-stem
incl	inclusive
INCOMPL	incompletive TAM-stem
intr.	intransitive
INTS	intensifying
IRR	irrealis
IT	itive
ITVEN	itive or ventive (depending on context)
k.o.	kind of
lit.	literally
LOC	pragmatic locative proclitic ( <b>čík-</b> )
LOCAPP	locative applicative suffix
n.	noun
N	nasal consonant
NEARSP	near speaker
NEARADDR	near addressee
NEG	negation marker
NOM	nominalization
NP	noun phrase
num	numeral
O1	first person singular object
O12 (etc.)	first and second person singular object
O <sub>2</sub> 2 (etc.)	second person singular as second object
obj.	object
PASS1	passive suffix <b>-(a)kɔ</b>
PASS2	passive suffix <b>-(V)tta</b>
PASS3	passive suffix <b>-(u)ra</b>
PCL	pronoun clitic
PERS	persona prefix ( <b>ś-</b> )
pl.	plural
PL	plural suffix <b>(-ŋɔn)</b>
PLC	plural noun class prefix
PLR	plural agreement marked through reduplication
PLUR	pluractional



POSS1	first person possessor
POSS12 (etc.)	first and second person singular possessor
PPC	prepositional proclitic
PR	present TAM-stem
p.redup	partial reduplication
PRO	common noun subject pronominal clitic
PROBS	pronominal base
PROP	particle expressing proposal (- <b>mÉ</b> )
PST	past TAM-stem
Q	polar question particle (- <b>i</b> )
QW	question word marker (- <b>ṭa</b> )
REC1	reciprocal suffix -( <b>a</b> ) <b>rə</b>
REC2	reciprocal suffix - <b>ttə</b>
RECOV	information recovery particle (- <b>a</b> )
RECOVINP	informal information recovery particle (- <b>ε</b> )
REDUP	reduplication
REL	relative word
RES	restrictor ( <b>í-</b> )
sg.	singular
SGC	singular noun class prefix
sp.	species
SUBJ	subjunctive particle ( <b>â-</b> )
subj.	subject
Sud. Ar.	Sudanese Arabic
TAM	tense, aspect, mood
tr.	transitive
UNCERT	interjection expressing uncertainty ( <b>cuŋ</b> )
URG	particle expressing urgency (- <b>mε</b> )
v.	verb
V	vowel
VEN	ventive
VREF	vague reference particle <b>ɕik</b>
vs.	versus
/ /	phonemic presentation
[ ]	phonetic presentation
< >	orthographic presentation
*	ungrammatical; unattested item; item in protolanguage

XXIV

Some further explanation about glossing conventions is provided in chapter 1.13.

### 13. Pluractionals

Pluractional verbs share a grammatical function: they denote, in one way or another, event plurality. In Lumun, all non-Pluractional verbs have one or more Pluractional counterparts. There is not one single morpheme, nor one single process that derives Pluractional verbs from non-Pluractionals. Instead, non-Pluractionals and Pluractionals relate to each other in different ways. These relationships, however, display patterns, and the far majority of Pluractionals share one or more formal features that are typically (but not exclusively) found in Pluractionals.

I will call those verbs Pluractionals that are in a paradigmatic relationship to a non-Pluractional counterpart and express event plurality as part of their lexical meaning. Semantically, I distinguish between non-habitual pluractionality and habitual pluractionality. I use the label Pluractional for both, since there are no clear morphological divisions between the two semantic types.

Non-habitual Pluractionals are a restricted set. Habitual Pluractionals on the other hand, can in principle be productively (and creatively) be made on the basis of a non-Pluractional or a non-habitual Pluractional. Also habitual Pluractionals themselves often serve as a basis for a further habitual Pluractional, particularly along the lines of certain patterns that will be exemplified in this chapter.

In the first part below, I explore the formal characteristics of Pluractionals, in the second part I address their meaning and use.

#### 13.1. Form

In virtually all cases, the same root appears in the non-Pluractional and the Pluractional stems. Pluractional stems have certain formal characteristics. The far majority contain one or more of the following features:

- a geminated consonant (CC)
- a nasal-consonant sequence (NC)
- a (underlyingly) long initial vowel and a L-tone pattern
- a reduplicated part
- a final or last vowel  $\epsilon$ .

The table below gives an overview of formal relations between non-Pluractional and Pluractional stems. The table presents patterns of generation of CC and NC sequences and of partial reduplication. Length of the initial vowel (relationship 12) is in most cases not audible in the isolated stem, but comes to the surface when the initial vowel receives a H-tone, because the H-tone is realized as falling. Some relationships between non-Pluractionals and Pluractionals seem more frequent than others: partial reduplication and gemination (6) and final or last vowel  $\epsilon$  (13). The latter however, is rare as the only feature distinguishing between non-Pluractional and Pluractional. Attested combinations are listed in the last column.

Table 92 Form features of Pluractionals

<i>characteristic form features of Pluractionals</i>		<i>relationship Pluractional/non-Pluractional</i>	<i>combines with<sup>1</sup>:</i>
CC	1	Gemination of $\text{t}$ , $\text{k}$ , a nasal or a rhotic	12, 13
	2	insertion of $\text{ll}$ between vowels	13
	3	insertion of $(\text{V})\text{tt}$ before the final or last vowel	13
	4	insertion of $\text{ukk(w)}$ before the final or last vowel	12
	5	addition of $\text{c}\epsilon\epsilon$ after the final or last vowel	
reduplicated part and CC	6	partial reduplication and gemination: $\text{VC} \Rightarrow \text{VC-VCC}$ , or $\text{VNC} \Rightarrow \text{VNC-VCC}$	

<sup>1</sup> Still further combinations are attested, but verbs with such combinations are labelled 'further Pluractionals': Pluractionals based on already Pluractional stems (see 13.1.1).

NC	7	insertion of a homorganic obstruent ( <b>p, t, c</b> ) after a nasal ( <b>m, n, ŋ</b> )	12, 13
	8	insertion of a homorganic nasal ( <b>ŋ</b> ) before <b>k</b>	12
	9	insertion of <b>ŋc</b> between vowels	13
	10	addition of <b>ent</b> before final or last vowel <b>ɛ</b>	12
reduplicated part	11	partial reduplication: VC ⇒ VC-VC, or VCC ⇒ VCC-VCC	
initial VV (or V at surface) + all-low tones	12	lengthening of the initial vowel and application of an all-low tone pattern	1, 4, 7, 8, 10, 13
final or last vowel <b>ɛ</b>	13	final or last vowel <b>ɛ</b> where counterpart has final or last <b>ɔ</b>	1, 2, 3, 7, 9, 12

Non-habitual and habitual meanings are distributed across the patterns, though for a few minor patterns, and one larger pattern (pattern 12) only the one or the other is attested.

Examples of the different formal relationships follow here. Habitual Pluractionals are translated with ‘habitually x’, the others are non-habitual. I have used the term ‘plural’ (‘pl.’) in translations of non-habitual Pluractionals (‘pl. subject participants’ and ‘pl. object participants’), but in several of these cases ‘plural’ refers to ‘many’ rather than to ‘more than one’, moreover distributive semantics may be involved as well. Some non-Pluractional verbs have several Pluractional counterparts that are formed through different procedures, as can be seen in the list below. Examples are ‘say’ (relationship types 2 and 6 from the table above), ‘be’ (2 and 6), ‘steal’ (6 and 11) and ‘descend’ (9 and 11). In the case of ‘say’ the different Pluractionals have different meanings.

*Relationship type 1.* Gemination of **t, k**, a nasal or a rhotic.

Gemination of [**r**] between vowels can give **rr** but also **tt**. The first is the case if **r** is the phoneme /**r**/, the latter if **r** is the intervocalic

allophone of /t/. Occasionally **r** geminates as **ll**. In such cases, it is likely that **r** has formerly been **ɾ**. Geminated **ɾɾ** is not attested: gemination of **ɾ** results most often in **ll**, but sometimes in **rr**.

<b>ɔtəkət cɪk</b> ‘swell’	<b>ɔttəkət cɪk</b> ‘swell (pl. subject participants)’ (also 12)
<b>ɔkâ</b> ‘be’	<b>ɔkka</b> ‘habitually be’ (also 12)
<b>ɔmákɔt</b> ‘follow’	<b>ɔmmakɔt</b> ‘habitually follow’ (also 12)
<b>ɔnâ</b> ‘bring’	<b>ɔnnâ</b> ‘habitually bring’
<b>ɔrâ</b> ‘cultivate’	<b>ɔrra</b> ‘habitually cultivate’ (also 12)
<b>ɔkéro</b> ‘trade’	<b>ɔkétte</b> ‘trade (pl. object participants)’ (also 13)
<b>ɔɲóro</b> ‘eat (a paste substance)’	<b>ɔɲólle</b> ‘habitually eat (a paste substance)’ (also 13)
<b>arɔ cɪk</b> ‘sleep, spend night’	<b>alle cɪk</b> ‘habitually sleep, spend night’ (also 13)
<b>ɔtətta</b> ‘be eaten’	<b>ɔrrətta</b> ‘be eaten (pl. subject participants)’

I mention here also a case in which there is a change from **ɾ** to **r**, though the Pluractional verb does not contain a geminate. Note also that the initial vowels differ.

<b>ɪɛ</b> ‘say’	<b>ere</b> ‘say, speak (a longer stretch of speech)’
-----------------	--

*Relationship types 2-4.* Insertion of **ll** between vowels (2); insertion of (V)**tt** before final or last vowel (3); insertion of **ukk(w)** before final or last vowel (4).

<b>ɪɔ</b> ‘die’	<b>ille</b> ‘die (pl. subject participants)’ (also 13)
<b>ɔtɪɔt</b> ‘send’	<b>ɔtɪllet</b> ‘send (pl. object participants)’ (also 13)
<b>ɔɲáeɔ̃</b> ‘urinate’	<b>ɔɲállle</b> ‘urinate (pl. subject participants), urinate repeatedly’ (also 13)
<b>anɔwɔt</b> ‘guard’	<b>anɔttet</b> ‘habitually guard’ (also 13)
<b>ɔɲwɔ̃</b> ‘sing’	<b>ɔɲótte</b> ‘habitually sing’ (also 13)
<b>ɔkákɔ</b> ‘grind’	<b>ɔkákətte</b> ‘habitually grind’ (also 13)
<b>ɔkkɔt</b> ‘do, make’	<b>ɔkkóttet</b> ‘habitually do, make’ (also 13)
<b>ɔkkɔ̃</b> ‘pass, reach’	<b>ɔkkótte</b> ‘habitually pass, reach’ (also 13)
<b>ɔppɔ̃</b> ‘pass, appear’	<b>ɔppótte</b> ‘habitually pass, appear’ (also 13)

<b>apɔ</b> ‘fall’	<b>apɔkk(w)ɔ</b> ‘fall with several bumps’
<b>aɔ</b> ‘come’	<b>aɔkk(w)ɔ</b> ‘come (pl. subject participants)’
<b>ɔkékɔ</b> ‘be shaved’	<b>ɔk<u>ɛ</u>kk(w)ɔ</b> ‘habitually be shaved’ (also 12)

In **ɔkɛkk(w)ɔ** ‘habitually be shaved’ (last example above) **ɔkk(w)** replaces the second **k** of **ɔkékɔ** which is part of the Passive marker -**kɔ** (**ɔkê** ‘shave’/**ɔkékɔ** ‘be shaved’)

*Relationship type 5.* Addition of **ccɛ** after final or last vowel.

<b>ɔkátɔ</b> ‘look’	<b>ɔkát<u>accɛ</u></b> ‘watch’
<b>ɔɔ</b> ‘cry’	<b>ɔɔ<u>ccɛ</u></b> ‘habitually cry’

*Relationship types 6 and 11.* Partial reduplication and gemination: VC ⇒ VC-VCC, VNC ⇒ VNC-VCC (6); Partial reduplication VC ⇒ VC-VC, VCC ⇒ VVC-VCC (11). Partial reduplication of VC without gemination (VC ⇒ VC-VC) is a relatively rare process.

In the reduplicated part the high vowels (**i**, **ɪ**, **u**, **ʊ**) are often copied, but not in all cases. The vowel **ə** is mostly copied, but can also be **ɛ** in reduplication. **ɛ** and **a** can be copied, but can also appear as **ə**. The vowel **ɔ** is never copied. Instead, one often finds **ə** in the reduplicated part, but other vowels also appear.

VC ⇒ VC-VCC

<b>ɪtɔ</b> ‘cook’	<b>ɪt<u>att</u>ɔ</b> ‘habitually cook’
<b>ɪɪkɔ</b> ‘enter’	<b>ɪɪk<u>ikk</u>ɔ</b> ‘enter (pl. subject participants)’
<b>ɪɪkɔ</b> ‘tie’	<b>ɪɪk<u>ikk</u>ɔ</b> ‘tie with several windings, tie (pl. object participants)’
<b>ɔkəɹɔ</b> ‘bite’	<b>ɔkə<u>ɹell</u>ɔ</b> ‘bite repeatedly, eat (hard foods), bite (pl. subject participants)’
<b>ɔɹɪkɪɛ</b> ‘make not see’	<b>ɔɹɪ<u>ll</u>ɪkɪɛ</b> ‘make not see (pl. (causee) object participants)’
<b>ɪɹɛ</b> ‘say (one utterance)’	<b>ɪɹ<u>ll</u>ɛ</b> ‘habitually say (one utterance)’
<b>ɔkwárikɔt</b> ‘recall instantly’	<b>ɔkwá<u>ra</u>ttikɔt</b> ‘remember, think’
<b>ɔrékɔ</b> ‘work’	<b>ɔr<u>á</u>ttekɔ</b> ‘habitually work’

In **ɪt̪at̪ta** the vowel **ɪ** corresponds to **a** in the reduplicated part. In **ɔk̪ɔ̌ɾɛllɔ** the H-tone occurs one mora to the left as compared to its non-Pluractional counterpart.

VNC ⇒ VNC-VCC

**unta** ‘fall and spread out (for example of water)’

**untutta** ‘fall and spread out (pl. subj. participants, scattering)’

**ɔnt̪ɔma** ‘become dry’ **ɔnt̪ɔtt̪ɔma** ‘habitually become dry’

VCC ⇒ VVC-VCC

**ɔpp̪at̪** ‘become full’

**ɔpp̪ɔpp̪at̪** ‘become full (pl. subject participants)’

**ittat̪** ‘become fat’

**ittttat̪** ‘become fat (pl. subject participants)’

**ittɛ** ‘escort’

**ittttɛ** ‘escort, help walk (requiring repeated effort)’

**ɔccɔk̪ɔt̪** ‘catch’

**ɔccɔccɔk̪ɔt̪** ‘catch (pl. object participants, typically thrown one by one and then caught one by one)’

**akkarɔ** ‘call’

**akk̪akk̪arɔ** ‘call repeatedly, read’

**ɔccɪkkarɔ** ‘plant’

**ɔccɪkk̪kk̪arɔ** ‘habitually plant’

**mma** ‘see’

**mmmma** ‘habitually see’

A case is also attested of reduplication followed by degemination of the root part (assuming that reduplication operates to the right):

**ɪkkɔ** ‘drink’

**ɪkk̪kk̪ɔ** ‘habitually drink’

VC ⇒ VC-VC (far less frequent than VC ⇒ VC-VCC).

**ɔt̪ɔ** ‘pull’

**ɔt̪ɔt̪ɔ** ‘pull repeatedly’

**ɔk̪ɛ** ‘shave’

**ɔk̪ɛk̪ɛ** ‘habitually shave’

**ɔm̪ɔɲɛ** ‘steal’

**ɔm̪ɔɲɛɲɛ** ‘habitually steal’

*Relationship types 7-10.* Insertion of a homorganic obstruent (**p**, **t**, **c**) after nasal (**m**, **n**, **ɲ**) (7); insertion of a homorganic nasal (**ŋ**) before **k** (8); Insertion of **ɲc** between vowels (9); insertion of **ent** before a final



or last vowel  $\epsilon$  (10). The latter case could also be interpreted as addition of  $n\epsilon$  after a final or last vowel  $\epsilon$ .

Pluractional  $\mathfrak{a}\eta\mathfrak{w}\mathfrak{d}$  ‘kill (pl. object participants)’, which relates to non-Pluractional  $\mathfrak{a}k\mathfrak{k}\mathfrak{w}\mathfrak{d}t$  ‘kill’, may be a case of insertion of  $\eta$  before  $kk$  and subsequent deletion of  $kk$ . The pair is a rare example of presence versus absence of final  $t$ . Generally, final  $t$  is either present or absent in both.

$\mathfrak{a}m\mathfrak{o}\mathfrak{n}\epsilon$ ‘miss’	$\mathfrak{a}mp\mathfrak{o}\mathfrak{n}\epsilon$ ‘habitually miss’ (also 12)
$\mathfrak{u}\mathfrak{n}\mathfrak{o}$ ‘pour’	$\mathfrak{u}\mathfrak{n}\mathfrak{t}\epsilon$ ‘pour repeatedly’ (also 13)
$\mathfrak{a}\eta\mathfrak{a}\mathfrak{n}\mathfrak{o}$ ‘say a name’	$\mathfrak{a}\eta\mathfrak{a}\mathfrak{n}\mathfrak{t}\epsilon$ ‘enumerate, count’ (also 12)
$\mathfrak{u}\mathfrak{n}\mathfrak{o}$ ‘build’	$\mathfrak{u}\mathfrak{n}\mathfrak{t}\epsilon$ ‘habitually build’ (also 13)
$\mathfrak{a}k\mathfrak{i}\mathfrak{n}\mathfrak{o}$ ‘defecate’	$\mathfrak{a}k\mathfrak{i}\mathfrak{n}\mathfrak{t}\epsilon$ ‘habitually defecate’ (also 13)
$\mathfrak{a}k\mathfrak{e}\mathfrak{r}\mathfrak{r}\mathfrak{a}t$ ‘squeeze’	$\mathfrak{a}\eta k\mathfrak{e}\mathfrak{r}\mathfrak{r}\mathfrak{a}t$ ‘squeeze repeatedly’ (also 12)
$\mathfrak{a}k\mathfrak{o}\mathfrak{n}\epsilon$ ‘show’	$\mathfrak{a}\eta k\mathfrak{o}\mathfrak{n}\epsilon$ ‘show (pl. object participants), teach’ (also 12)
$\mathfrak{a}k\mathfrak{k}\mathfrak{w}\mathfrak{d}t$ ‘kill’	$\mathfrak{a}\eta\mathfrak{w}\mathfrak{d}$ ‘kill (pl. object participants)’
$\mathfrak{r}\mathfrak{a}t$ ‘find’	$\mathfrak{r}\mathfrak{a}\mathfrak{n}\mathfrak{t}\epsilon$ ‘find (pl. object participants)’ (also 13)
$\mathfrak{a}\mathfrak{r}\mathfrak{a}$ ‘throw (a stone) at’	$\mathfrak{a}\mathfrak{r}\mathfrak{u}\mathfrak{n}\mathfrak{c}\mathfrak{o}$ ‘throw (plural stones) at’
$\mathfrak{e}\mathfrak{d}$ ‘go’	$\mathfrak{a}\mathfrak{i}\mathfrak{n}\mathfrak{c}\epsilon$ ‘habitually go’ (also 13)
$\mathfrak{a}\mathfrak{i}\mathfrak{n}\epsilon$ ‘go to’	$\mathfrak{a}\mathfrak{i}\mathfrak{n}\mathfrak{c}\mathfrak{i}\mathfrak{n}\epsilon$ ‘habitually go to’
$\mathfrak{u}\mathfrak{a}$ ‘descend’	$\mathfrak{u}\mathfrak{n}\mathfrak{c}\epsilon$ ‘habitually descend’ (also 13)
$\mathfrak{i}\mathfrak{m}\epsilon$ ‘wash’	$\mathfrak{i}\mathfrak{m}\mathfrak{e}\mathfrak{n}\mathfrak{t}\epsilon$ ‘habitually wash’
$\mathfrak{a}m\mathfrak{e}$ ‘tell, say’	$\mathfrak{a}m\mathfrak{e}\mathfrak{n}\mathfrak{t}\epsilon$ ‘habitually tell, say’ (also 12)

In the case of  $\mathfrak{e}\mathfrak{d}$  ‘go’/ $\mathfrak{a}\mathfrak{i}\mathfrak{n}\mathfrak{c}\epsilon$  ‘always go’ (insertion of  $\mathfrak{n}\mathfrak{c}$  between vowels) the initial vowels differ.

*Relationship type 11.* See above, under *Relationship types 6 and 11*

*Relationship type 12.* (Underlying) length of the initial vowel and application of an all-low tone pattern.

Length of the initial vowel is not always audible. It is usually audible when it is the only feature distinguishing between the non-Pluractional and the Pluractional stem. In other cases, length of the vowel may only be recognized when it receives a H-tone: this H-tone is realized as a falling tone, reflecting the vowel's bimoraicity. I write a long vowel when it is the only distinguishing feature between a non-Pluractional and a Pluractional (or between a Pluractional and a further Pluractional).

ɔa 'rise'	ɔɔa 'habitually rise every'
ɔɔ 'descend'	ɔɔɔ 'habitually descend'
ɔmóɲɛ 'steal'	ɔmɔɲɛ 'habitually steal'
ɔkâ 'be'	ɔka 'habitually be'

ɔmóɲɛ 'steal' also has a Pluractional with partial reduplication (relationship 11, see 6 and 11).

*Relationship type 13.* Final or last vowel  $\epsilon$  where the counterpart has final or last  $\alpha$ . Only one case is attested for which this is the only difference:

ɔkkwâ 'hit'	ɔkkwê 'beat, hit repeatedly'
-------------	------------------------------

Some further, occasional relationships are attested between Pluractionals and non-Pluractionals; several of these are suppletive.

ɛê 'stab, blow'	ɔkóntɔ 'blow repeatedly'
ɔkɔ 'cut'	ɔkéccɛ 'cut repeatedly'
ɔppâ 'take an amount'	ɔppóɲɛ 'take an amount repeatedly'
ɛt̥t̥ 'give'	ɪkkɛt 'give (pl. object participants)'
ɔmmɔ 'take, pick up'	ɔcómɔ 'take, pick up (pl. object participants)'
ɪpɔ 'dig, collect'	ɪtte 'habitually dig, habitually collect'

Note that the Pluractional  $\text{ɔcómɔ}$  does not have any of the formal features that are typically found in Pluractionals.

## 13.1.1. Further Pluractionals: Pluractionals based on Pluractional stems

In many cases, one or more further Pluractionals can be formed on the basis of an already Pluractional verb, in particular along the lines of partial reduplication  $VCC \Rightarrow VCC-VCC$  (11) (sometimes  $VC \Rightarrow VC-VC$ ), and partial reduplication and gemination  $VNC \Rightarrow VNC-VCC$  (6). Another process that often applies is (underlying) lengthening of the initial vowel and change from a L.H.L\* tone pattern to an all-low tone (12). Relationship types 11 and 12 can occur together. Still more relationships are occasionally attested. Relationships between Pluractionals and further Pluractionals are exemplified below. The most common relationships (the reduplicating patterns 11 and 6, depending on the shape of the Pluractional base verb, and pattern 12 (lengthening of the initial vowel and application of a L-tone pattern) are presented first.

*Relationship type 11: Partial reduplication  $VCC \Rightarrow VCC-VCC$*

Table 93 Pluractionals and Further Pluractionals

<i>Pluractionals (non-habitual and habitual meaning)</i>	<i>Further Pluractionals (habitual meaning)</i>
<b>ɔppəppat</b> ‘become full (pl. subj. participants)’	<b>ɔppəppəppat</b> (11), also: <b>ɔppəppat</b> (12) / <b>ɔppəppəppat</b> (11, 12)
<b>ɔppɔre</b> ‘take an amount repeatedly’	<b>ɔppəppɔre</b> (11)
<b>ɔkətte</b> ‘trade several items’	<b>ɔkəttətte</b> (11)
<b>ɔkəkətte</b> ‘habitually grind’	<b>ɔkəkəttətte</b> (11)
<b>itte</b> ‘habitually dig, habitually collect’	<b>ittitte</b> (11)
<b>ɔkwárəttikət</b> ‘remember, think’	<b>ɔkwárəttəttikət</b> (11), also: <b>ɔkwarəttikət</b> (12) / <b>ɔkwarəttəttikət</b> (11, 12)
<b>aɲottet</b> ‘habitually guard’	<b>aɲottottet</b> (11)
<b>ɔɲálle</b> ‘urinate (pl. subj. participants)’	<b>ɔɲálləlle</b> (11), also: <b>ɔɲalle</b> (12) / <b>ɔɲalləlle</b> (11, 12)
<b>ɔt̥t̥illet</b> ‘send (pl. obj. participants)’	<b>ɔt̥t̥illillet</b> (11), also: <b>ɔt̥t̥illet</b> (12) / <b>ɔt̥t̥illillet</b> (11, 12)

<b>apokk(w)ɔ</b> ‘fall with several bumps’	<b>apokkukk(w)ɔ</b> (11)
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In **apokkukk(w)ɔ** ‘habitually fall with several bumps’ **kkw** is delabialized before **u**: **apokk-ukk(w)-ɔ**.<sup>2</sup>

In the following cases it is the pluractional ending **ccɛ** that is reduplicated. The case of **ɔkɛccɛ** ‘cut repeatedly’ and **ɔkɛccɛccɛ**, **ɔkɛccɛccɛ** ‘habitually cut’ could also be interpreted as involving reduplication of **ɛcc**.

<b>ɔccɛ</b> ‘habitually cry’	<b>ɔccɛccɛ</b> (partial redup)
<b>ɔkɔ́taccɛ</b> ‘watch’	<b>ɔkɔ́taccɛccɛ</b> (partial redup)
	also: <b>ɔkɔ́taccɛ</b> (12) and <b>ɔkɔ́taccɛccɛ</b> (partial redup, 12)
<b>ɔkɛccɛ</b> ‘cut repeatedly’	<b>ɔkɛccɛccɛ</b> (partial redup)
	also: <b>ɔkɛccɛ</b> (12), and <b>ɔkɛccɛccɛ</b> (partial redup, 12)

Partial reduplication VC ⇒ VC-VC

<b>ɔtɔ́tɔ</b> ‘pull repeatedly’	<b>ɔtɔ́tɔtɔ</b> (11)
	also: <b>ɔtɔ́tɔ</b> (12) and <b>ɔtɔ́tɔtɔ</b> (11, 12)
<b>ɔkɔ́kɛ</b> ‘habitually shave’	<b>ɔkɔ́kɛkɛ</b> (11)
	also: <b>ɔkɔ́kɛ</b> (12) and <b>ɔkɔ́kɛkɛ</b> (11, 12)

Though there is no restriction on sequences of the type VCC-VCC, there is degemination of the first part in some cases: VCC ⇒ VC-VCC:

<b>ɪkkɛt</b> ‘give (pl. object participants)’	<b>ɪkɪkkɛt</b>
<b>ɔkkwɛ</b> ‘beat, hit repeatedly’	<b>ɔkɔ́kkwɛ</b>

The same type of relationship was seen between **ɪkkɔ** ‘drink’ and **ɪkɪkkɔ** ‘habitually drink’.

*Relationship type 6*: partial reduplication and gemination on the basis of a stem with NC combination (VNC ⇒ VNC-VCC)

<sup>2</sup> That is, in the speech of JS, possibly not in the speech of NaA (see 2.1.2).

<b>ᠮᠮᠦᠨᠢ</b> ‘habitually miss’	<b>ᠮᠮᠦᠨᠢᠶᠢ</b> (6)
<b>ᠮᠮᠦᠨᠡ</b> ‘enumerate, count’	<b>ᠮᠮᠦᠨᠡᠶᠢ</b> (6)
<b>ᠮᠮᠦᠨᠢ</b> ‘habitually speak’	<b>ᠮᠮᠦᠨᠢᠶᠢ</b> (6)
<b>ᠮᠮᠦᠨᠢ</b> ‘habitually build’	<b>ᠮᠮᠦᠨᠢᠶᠢ</b> (6)
<b>ᠮᠮᠦᠨᠢ</b> ‘find (pl. object participants)’	<b>ᠮᠮᠦᠨᠢᠶᠢ</b> (6)
<b>ᠮᠮᠦᠨᠢ</b> ‘throw (plural stones) at’	<b>ᠮᠮᠦᠨᠢᠶᠢ</b> (6)
<b>ᠮᠮᠦᠨᠢ</b> ‘show (pl. obj. participants), teach’	<b>ᠮᠮᠦᠨᠢᠶᠢ</b> (6)

In the following case relationship 6 is applied as VC ⇒ VC-VCC:

**ᠮᠮᠦᠨᠢᠶᠢ** ‘make not see (pl. object (causee) participants)’ **ᠮᠮᠦᠨᠢᠶᠢᠶᠢ**  
(6)

also: **ᠮᠮᠦᠨᠢᠶᠢ** (12) / **ᠮᠮᠦᠨᠢᠶᠢᠶᠢ** (6, 12)

*Relationship type 12*: lengthening of the initial vowel and all-low tone pattern. Further examples are found under relationship 11 and 6.

**ᠮᠮᠦᠨᠢ** ‘habitually steal’ **ᠮᠮᠦᠨᠢ** (12)

**ᠮᠮᠦᠨᠢ** ‘defecate (pl. subject participants)

**ᠮᠮᠦᠨᠢ** (12)

also: **ᠮᠮᠦᠨᠢᠶᠢ** (6) and **ᠮᠮᠦᠨᠢᠶᠢ** (6, 12)

**ᠮᠮᠦᠨᠢ** ‘send (pl. object participants)’

**ᠮᠮᠦᠨᠢ** (12)

also: **ᠮᠮᠦᠨᠢᠶᠢ** (11) and **ᠮᠮᠦᠨᠢᠶᠢ** (11, 12)

**ᠮᠮᠦᠨᠢ** ‘habitually bring’ **ᠮᠮᠦᠨᠢ** (11, 12)

**ᠮᠮᠦᠨᠢ** ‘bite repeatedly, eat (hard foods), bite (pl. subject participants)’ **ᠮᠮᠦᠨᠢ** (12)

also: **ᠮᠮᠦᠨᠢᠶᠢ** (3) and **ᠮᠮᠦᠨᠢᠶᠢ** (3, 12)

*Relationship type 3* (insertion of Vtt before final or last vowel) must be combined with 13 (final or last ε) in the following case:

**ᠮᠮᠦᠨᠢ** ‘kill (pl. object participants)’ **ᠮᠮᠦᠨᠢ** (3, 13)

also: **ᠮᠮᠦᠨᠢᠶᠢ** (3, 13, 11)

*Relationship type 1*: gemination of ᠮ, k, a nasal or rhotic:

**ᠮᠮᠦᠨᠢ** ‘habitually be’ **ᠮᠮᠦᠨᠢ** (1)

also: **ᠮᠮᠦᠨᠢᠶᠢ** (6) (VC ⇒ VC-VCC)

*Relationship type 10*: addition of **nte** after a final or last vowel **ε**.

**εε** ‘speak (a longer stretch of speech)’    **εεnte** (10)  
also: **εεntette** (10, 6)

The following case is a case of suppletion. It is reminiscent of relationship 10 since it ends in **nte**, but instead of coming after a final or last vowel **ε** the element **nte** replaces part of the stem:

**εόμε** ‘take, pick up (pl. object participants)’    **εόνte** (suppletion)  
also: **εόνtette** (6, VNC ⇒ VNC-VCC)

### 13.2. Meaning

Lumun Pluractionals can be divided into non-habitual and habitual Pluractionals. The non-habitual ones express plurality within the (bounded) context of an event. The habitual ones express (unbounded) habitual events or repeatedly reoccurring events.

Further Pluractionals (Pluractionals based on an already Pluractional stem) have habitual meaning, regardless of whether the Pluractional base verb has habitual or non-habitual meaning.

Non-habitual Pluractionals can express different types of plurality. They typically denote that an action or event consists of many sub-actions or sub-events, rather than just two or three. This is a tentative list of types of semantics of non-habitual Pluractionals:

1. Verbs that express repetition within one activity. They can be intransitive, or transitive with action upon a single object participant;
2. Verbs that inherently take some time due to continued effort, particularly sensory or mental processes;
3. Verbs that express action upon (distributed) plural object participants;

4. Verbs that express action carried out or undergone by (distributed) plural subject participants.

Examples follow here. Some verbs can, in the right context, express more than one sub-type of non-habitual plurality. The type numbers are mentioned between parentheses.

1. Verbs that express repetition within one activity. When transitive, they express repetitive action, typically upon a single object participant. Both the subject and object participants can have singular reference.

<b>ἵῤῥῖκῶ</b> ‘tie’	<b>ἵῤῥῖκῖκῶ</b> ‘tie sth. while winding the rope several times’ (1), also: ‘tie several things’ (3)
<b>ᾠκκῶ</b> ‘hit’	<b>ᾠκκῶ</b> ‘beat, hit repeatedly’ (1)
<b>ᾠῤῥῖ</b> ‘pull’	<b>ᾠῤῥῖ</b> ‘pull repeatedly’ (1)
<b>ἔῤ</b> ‘stab, blow’	<b>ᾠκῶντο</b> ‘stab repeatedly, blow repeatedly’ (1)
<b>ᾠῶ</b> ‘pour’	<b>ᾠντε</b> ‘pour repeatedly’ (1) (for example water or tea, often locational distribution)
<b>ᾠκκῶ</b> ‘call’	<b>ᾠκκᾠκκῶ</b> ‘call repeatedly’ (1), also: ‘read’ (2)
<b>ᾠκᾠῤῥῖ</b> ‘bite’	<b>ᾠκᾠῤῥῖ</b> ‘bite repeatedly in a hard or crisp item’ (1), also: ‘bite on several small, hard or crisp items’ (3), also: ‘bite in a hard or crisp item (pl. subject participants)’ (4)

2. Verbs that inherently take some time due to continued effort, particularly sensory or mental processes.

<b>ᾠκᾠῥᾠ</b> ‘look’	<b>ᾠκᾠῥᾠ</b> ‘watch’ (2)
<b>ᾠκῶρᾠῥῖκῶ</b> ‘recall instantly’	<b>ᾠκῶρᾠῥῖκῶ</b> ‘remember, think’ (2)
<b>ῤῥῖ</b> ‘say (one utterance)’	<b>ῤῥῖ</b> ‘speak (a longer stretch of speech)’ (2)

3. Verbs that express action upon (distributed) plural object participants.

<b>ᾠῥᾠ</b> ‘say a name’	<b>ᾠῥᾠντε</b> ‘enumerate, count’ (3)
<b>ᾠκᾠνε</b> ‘show’	<b>ᾠκᾠνε</b> ‘show (pl. object participants), teach’ (3)

<b>၁၃</b>	‘throw at (typically in order to chase away)’	<b>၁၃တူဇာ</b>	‘throw at (pl. object participants, typically stones, one by one)’ (3)
<b>၁၂၂၁</b>	‘kill’	<b>၁၂၂၁</b>	‘kill (pl. object participants)’ (3)
<b>၁၂၂၁</b>	‘send’	<b>၁၂၂၁</b>	‘send (pl. object participants: one by one or group by group)’ (3)
<b>၁၂၂၁</b>	‘trade’	<b>၁၂၂၁</b>	‘trade (pl. object participants: one by one or group by group, involving several transactions)’ (3)

4. Verbs that express action carried out or undergone by (distributed) plural subject participants. These verbs are intransitive. They include some (inchoative) state verbs and verbs that refer to processes concerning the body, but also others. Use of the Pluractional verb in case of a plural participant is not strictly obligatory in these cases (this will be explained further below).

<b>၁၂၂၁</b>	‘become fat’	<b>၁၂၂၁</b>	‘become fat (pl. subj. participants)’ (4)
<b>၁၂၂၁</b>	‘become full’	<b>၁၂၂၁</b>	‘become full (pl. subj. participants)’ (4)
<b>၁၂၂၁</b>	‘get pregnant’	<b>၁၂၂၁</b>	‘get pregnant (pl. subj. participants)’ (4)
<b>၁၂၂၁</b>	‘die’	<b>၁၂၂၁</b>	‘die (pl. subj. participants)’ (4)
<b>၁၂၂၁</b>	‘urinate’	<b>၁၂၂၁</b>	‘urinate once (pl. subj. participants)’ (4), also: ‘urinate repeatedly’ (1)
<b>၁၂၂၁</b>	‘come’	<b>၁၂၂၁</b> , <b>၁၂၂၁</b>	‘come (pl. subj. participants: one by one or group by group)’ (4)

The different uses of non-habitual Pluractionals can be illustrated by means of the verb ‘bite’. The non-habitual Pluractional of ‘bite’, **၁၂၂၁**, expresses plural (sub-) events of biting. It is used for eating hard and dry food which requires repeated (audible) biting, as does the very hard *cúpô*-fruit:

**m-p-၁၂၂၁.၁**    **cúpô**  
1-C-bite.PLUR:COMPL    fruit(k.o.)

I have eaten a *cúpô*-fruit (requiring many bites, since the fruit is extremely hard)



Having pain is expressed as the involved body part repeatedly biting its owner:

**wək**      **w-a.ɪk**      **w-a.kəʀellɔ̃-n**  
 leg            C-be:PR            C-bite.PLUR:INCOMPL-O1

my foot hurts (lit.: my foot is biting me repeatedly or continuously)

**əkəʀellɔ̃** is also used when a singular subject bites in plural object participants and when plural subject participants bite in one object. In the latter case (verb with plural subject and a singular object) the Pluractional verb is not used because of plurality of the subject, but because of the plurality of the event as undergone by the object. For comparison, two examples with non-Pluractional verbs are given first. The examples show that use of the Pluractional verb is not a matter of (semantic) number agreement with the subject or the object, but expresses plurality of the bites.

**tək**      **t-əkəʀɔ̃.t**      **úkɔl**  
 dog            C-bite:COMPL            child

the dog has bitten the child (one bite)

**lɔk**      **l-əkəʀɔ̃.t**      **úkɔl**  
 dogs            C-bite:COMPL            child

the dogs have bitten the child (the non-Pluractional implies that the child got bitten once. The dogs were in a group when it happened and it is unclear which dog did it)

**tək**      **t-əkəʀéllɔ̃.t**      **núkɔl**  
 dog            C-bite.PLUR:COMPL            children

the dog has bitten the children (several children got bitten)

**ɔʀək**      **w-əkəʀéllɔ̃.r-ín**  
 ants(sp.)      C-bite.PLUR:COMPL-O1

the *ɔʀək*-ants have bitten me (several ants biting once)

The use of a non-habitual Pluractional relating to plural participants depends on how the event or situation is conceptualized. Non-habitual Pluractionals with semantics of type 3 and 4 can present the plural subject or object participants as consisting of individuals or

subgroups performing or undergoing the action in a distributed way: individually or as separate subgroups. For example, in the case of ‘give’, use of the Pluractional (**ikkēt**) or the non-Pluractional (**ētēt**) presents a different picture of the scene. The Pluractional expresses that the plural objects are handed over one by one, or group by group while the non-Pluractional is not concerned with the (semantic) plurality of the object, nor with distributional aspects, but treats it as a group.

**ikkēt-ək**      **aṛəpə**      **en-n-ərik**      **áppik**  
 give.PLUR:IMP-O3    things      DEM-C-NEARSP    all  
 give him all those things (one by one)

**ēt-ək**      **aṛəpə**      **en-n-ərik**      **áppik**  
 give:IMP-O3      things      DEM-C-NEARSP    all  
 give him all those things (not concerned with how the items are handed over)

A similar situation is found in the following phrases with ‘send’:

**ɔ-kakká**      **p-ɔṭillét.é**      **ɲókól**      **kéccòk**  
 PERS-Kakka      C-send.PLUR:COMPL    children      market

Kakka has sent the children to the market (as separate groups or individuals, each with his own task)

**ɔ-kakká**      **p-ɔṭjɔṭ.é**      **ɲókól**      **kéccòk**  
 PERS-Kakka      C-send:COMPL      children      market

Kakka has sent the children to the market (as a group, with a shared task)

Explicit distribution over different locations can induce the use of a Pluractional. In the example below Pluractional **unte** ‘pour’ must be used because the situation involves several actions of pouring due to locational distribution of the object (the sorghum):

**anákká**      **ɔ-kín**      **ṭ-ɔká.t**      **cik**      **a-kín**      **unte**      **míl**  
 and.that      PERS-3A      C-be:COMPL      VREF      CONJ.PERS-3A    pour.PLUR:DEPINCOMP    sorghum  
**n.ti**      **i-aṛók ...**  
 from      in-bags

and when they were pouring the sorghum out of the bags ...

The subject in the sentence below is the mass noun **ησουλ** ‘sauce’. Its distribution over several calabashes is expressed with a Pluractional verb (**αππόπατ** ‘become full’).

**ησουλ η-αππόπατ.ε**                      **ι-λόντάρδ**  
 sauce      C-become\_full.PLUR:COMPL      in-calabashes

the calabashes were full with sauce (lit.: the sauce was full in the calabashes)

In the examples below, both the non-Pluractional and the Pluractional can be used. When the non-Pluractional is used, the subjects are conceptualized as a group.

**α-κίν** **αππικ** **τ-αππόπέτ.ε**                      / **α-κίν** **αππικ**      **τ-αππέτ.ε**  
 PERS-3A   all                      C-get\_pregnant.PLUR:COMPL / PERS-3A   all                      C-get\_pregnant:COMPL

they are all pregnant (each of them is pregnant) / they are all pregnant

**α-κίν**      **τ-αηαλλέ.τ**                      / **α-κίν**      **τ-αηαεδ.τ**  
 PERS-3A      C-urinate.PLUR:COMPL / PERS-3A      C-urinate:COMPL

they have urinated (each of them) / they have urinated

For the verbs ‘die’ and ‘kill’ the undergoer-event of dying is central. These verbs do not present the possibility to choose between a non-Pluractional and a Pluractional in case of multiple events of dying. Here pluractionality relates to plurality of the subject in the case of ‘die’ and to plurality of the object in the case of ‘kill’: several persons dying is a plural event of dying and one or more persons killing several persons is also a plural event of dying. However, several persons killing one person is a single event of dying. This goes for any creature that dies, and even when relatively indistinguishable creatures such as ants die as a group the Pluractional must be used. However, according to my consultant (JS), when two or perhaps three persons die, it is not entirely impossible to use the non-Pluractional. I do not think that the near-obligatory use of the Pluractionals of ‘kill’ and ‘die’ makes these verbs essentially different from other Pluractionals that (can) express event-plurality due to

participant plurality. Rather, for some verbs, more than for others, use of the Pluractional is conventionalized more strongly.

The verbs in the example below are **ɪ** ‘die’ and **ɪlle** ‘die (PLUR)’, and **ɔkkwɔt** ‘kill’ and **ɔɣwɔ** ‘kill (PLUR)’.

**pɔl**      **p-ɪ.áɥɛ**  
 person    C-die:PST  
 the person died

**ɔl**      **w-ɪlle.káɥɛ**  
 people    C-die.PLUR:PST  
 the people died

**m-p-ɔkwɔɥ.é**    **ɥɪk**    **nɔ-lɔra-lóra**    **ana**    **l-ɪlle.káɥɛ**  
 1-C-ignite:COMPL    fire    on-insects(sp.)-REDUP    and    PRO.C-die.PLUR:PST

I set fire to the insects (an ant species?) and they died (dry grass is put on the insects and set fire to)

**ɔ-kín**    **ɥ-ɔkkwɔɥ.é**    **ɪmɪt**  
 PERS-3A    C-kill:COMPL    goat  
 they have killed the goat

**ɔ-kín**    **ɥ-ɔɣwɔ.t**    **ɪɥɔk**  
 PERS-3A    C-kill.PLUR:COMPL    goats  
 they have killed the goats

**m-p-ɔɣwɔ.t**    **ɔɥɛk**    **n-ɥɪk**  
 1-C-kill.PLUR:COMPL    ants    with-fire  
 I have killed the ants with fire

### *Pluractionality and Reciprocal verbs*

Reciprocal verbs are verbs that involve at least two actions (an action from X upon Y and from Y upon X, with the subject referring to both X and Y). Some Reciprocals are based on a Pluractional verb (see also section 14.5 about Reciprocals). Two examples:

**ikkettət** ‘give each other’ < **ikket** ‘give (several items)’  
**ɪncettət** ‘find each other, meet each other’ < **ɪncet** ‘find (several persons or items)’

*(Non)-use of Pluractionals in certain collocations*

The choice of a non-Pluractional or a Pluractional verb may (partly) depend on fixed collocations. For example, cutting in one movement takes the non-Pluractional verb **ɔkɪɔ**, whereas cutting with several cutting movements takes the Pluractional verb **ɔkɛccɛ** (for example onions, or somebody’s hair).

**m-p-a.ɪk**    **p-a.kɛccɛ**    **t̪ún**  
 1-C-be:PR    C-cut.PLUR:INCOMPL    onion

I am cutting the onions

However, cutting sorghum is expressed with the non-Pluractional **ɔkɪɔ**, even though the event involves more actions of cutting since it is normally not just one sorghum stock that is cut. The Pluractional **ɔkɛccɛ** can be used in combination with sorghum, but then it expresses ‘cutting sorghum during several days’. The first example below states what the speaker is doing at the moment of speech, the second, with the Pluractional verb, could be an answer to the question: ‘what are you doing these days?’

**m-p-a.ɪk**    **p-á.kɪɔ**    **m̪ɪl**  
 1-C-be:PR    C-cut:INCOMPL    sorghum

I am cutting the sorghum

**m-p-a.ɪk**    **p-a.kɛccɛ**    **m̪ɪl**    **tɔ.pôn**  
 1-C-be:PR    C-cut.PLUR:INCOMPL    sorghum    at\_farming\_field

I am cutting sorghum in the field (implication: the cutting takes several days, it needs repeated going there)

*Verbs with formal characteristics and semantics of Pluractionals, but without non-Pluractional counterpart*

There are also verbs that inherently (or usually) express repeated actions or events and have one or more of the typical formal characteristics of Pluractionals, but lack a counterpart that expresses one (sub) action or (sub-) event. Some examples:

ᄇᄇ	‘press oil’ (done with a repeated movement) (long initial vowel)	
ᄇᄇᄇ	‘sweep’	(gemination)
ᄇᄇᄇᄇ	‘cough’	(partial reduplication and gemination)
ᄇᄇᄇᄇᄇ	‘roll sth.’	(partial reduplication and gemination)
ᄇᄇᄇᄇᄇ	‘swim’	(partial reduplication)
ᄇᄇᄇᄇ	‘grind’	(partial reduplication)
ᄇᄇᄇ	‘lick’	(ending in <b>ᄇᄇ</b> )

#### *Habitual Pluractionals*

Habitual Pluractionals express habitual actions or repeatedly reoccurring events. Examples:

<i>non-Pluractional</i>	<i>Pluractional</i>		
ᄇᄇᄇ	‘go to’	ᄇᄇᄇᄇᄇ	‘habitually go’
ᄇᄇ	‘say (one utterance)’	ᄇᄇᄇᄇᄇ	‘habitually say (one utterance)’
ᄇᄇ	‘dig, collect’	ᄇᄇᄇᄇᄇ	‘habitually dig, collect’
ᄇᄇᄇᄇ	‘do, make’	ᄇᄇᄇᄇᄇᄇᄇ	‘habitually do, make’
ᄇᄇᄇ	‘tell’	ᄇᄇᄇᄇᄇᄇᄇ	‘habitually tell’
ᄇᄇ	‘cry’	ᄇᄇᄇᄇᄇᄇᄇ	‘habitually cry’
ᄇᄇᄇᄇᄇ	‘steal’	ᄇᄇᄇᄇᄇᄇᄇᄇᄇ	‘habitually steal’

Further Pluractionals that are based on Pluractionals with non-habitual meaning do not necessarily retain the pluractional meaning of their counterpart, for example:

**ᄇᄇᄇᄇᄇ** ‘fall with several bumps’    **ᄇᄇᄇᄇᄇᄇᄇᄇᄇ** ‘habitually fall’

Some examples with Pluractionals with habitual meaning follow here. Habitual Pluractionals can easily be combined with the adverb **ᄇᄇᄇᄇᄇᄇᄇ** ‘always’, but **ᄇᄇᄇᄇᄇᄇᄇᄇᄇ** does not need to be present in order to get the reading ‘always do x’. Habitual Pluractionals cannot

be combined with adverbs that express a specific, bounded time frame, such as **mamân** ‘this morning’.

**a-kín**      **óíncine**      **ı-tıpâ**  
 CONJ.PERS-3A    go\_to.PLUR:DEPINCOMPL    in-marriage

and they always went to her for marriage (fr. written story)

**a-kín**      **óíncine**      **ı-tıpâ**      **εppın-εppın**  
 CONJ.PERS-3A    go\_to.PLUR:DEPINCOMPL    in-marriage    always-REDUP

and they always went to her for marriage

\***a-kín**      **óíncine**      **ı-tıpâ**      **mámân**  
 CONJ.PERS-3A    go\_to.PLUR:DEPINCOMPL    in-marriage    this\_morning

\*and they always went to her for marriage this morning

Some more examples:

**ɔ-parı**      **p-aŋ**      **p-a.kkóttet**      **ŋúcul**      **ŋ-ó-ín-ta**  
 PERS-wife      C-POSS2      C-do.PLUR:INCOMPL      sauce      C-of-what-QW

what does your wife always make the sauce of? (App. IV, 12)

**caɽı** **c-əɽek**    **c-ɔká.t**    **cık**    **a-ŋúkul**    **ŋ-ɔ-kəmən**    **k-ó-nɔ-cəruk**  
 day    C-some    C-be:COMPL    VREF    CONJ-children    C-of-houses    C-of-on-opening

**ŋ-ɔká.t**    **cık**    **a-ŋ-ómuje**      **áɽəpu**    **w-ɔ-rua**  
 C-be:COMPL    VREF    CONJ-PRO-steal.PLUR:DEPINCOMPL    things    C-of-hair

there was a time that there were youngsters from the neighbourhood who were stealing cattle time and again (fr. written story)

Notably, presence of **εppınεppın** ‘always’ does not always lead to the use of a Pluractional verb, as in the following example:

**ɔ-lótti**      **p-ákkaró-k**      **εppın-εppın**  
 PERS-Lótti      C-call:INCOMPL-O3      always-REDUP

Lótti always calls him

As mentioned earlier, non-habitual Pluractionals can serve as a basis for further Pluractionals with habitual meaning. The examples below contrast related non-habitual and habitual Pluractionals.

with non-habitual **ᵛkəɽello**:

**ᵛ-kín** **ᵼ-á.ík** **ᵼ-á.kəɽello** **áppentína**  
 PERS-3A C-be:PR C-bite.PLUR:INCOMPL groundnuts

they are eating groundnuts

with habitual **ᵛkəɽello** or **ᵛkəɽellottə**:

**ᵛ-kín** **ᵼ-á.ík** **ᵼ-â.kəɽello** / **ᵼ-â.kəɽellottə** **áppentína**  
 PERS-3A C-be:PR C-bite.PLUR:INCOMPL / C-bite.PLUR:INCOMPL groundnuts

they are always eating groundnuts

with non-habitual **ᵛɣwə**:

**ᵛ-kukkú** **p-ᵛɣwə.t** **l̥ɛ́ɔ́k**  
 PERS-Kokku C-kill.PLUR:COMPL goats

Kokku has killed the goats

with habitual **ᵛɣuttə** or **ᵛɣuttuttə**:

**ᵛ-kukkú** **p-ᵛɣúttə.t** / **p-ᵛɣúttuttə.t** **l̥ɛ́ɔ́k**  
 PERS-Kokku C-kill.PLUR:COMPL / C-kill.PLUR:COMPL goats

Kokku used to kill the goats (but now he has stopped doing this)

with non-habitual **ᵛppəppət**:

**ᵛ-kín** **ᵼ-ᵛppəppét.ɛ**  
 PERS-3A C-get\_pregnant.PLUR:COMPL

they are pregnant

with habitual **ᵛppəppət**:

**ᵛ-kakká** **p-ᵛppəppét.ɛ**  
 PERS-Kakka C-get\_pregnant.PLUR:COMPL

Kakka used to get pregnant (but this has stopped)

### *Expressivity*

Pluractionals in general have a certain expressivity, but further Pluractionals based on a habitual Pluractional stem are particularly expressive.



The following line is from the opening of the story ‘Tortoise and bird’. The activity of the bird is contrasted with the inertia of the tortoise. The verb **ittitte** ‘habitually dig, habitually collect’ is based on **itte** ‘habitually dig; habitually collect’, which again relates to **ipɔ** ‘dig, collect’ (NB: there is no verb which refers to one single digging movement). The use of the Pluractional reflects the very busy nature of the bird.

**ηαττῆττῆάρε** **η-ικκό.τ** **κικ** **α-ίττῆττῆ** **αὐν**  
 bird(sp.) C-sit:COMPL VREF CONJ-(PRO-)collect.PLUR:DEPINCOMPL bees

the **ηαττῆττῆάρε**-bird was always collecting honey (App. IV, 2)



## 14. Verbal derivation

In this chapter I discuss verbs derived from other verbs: Benefactives, Locative-applicatives, Causatives, Passives and Reciprocals. In the last section of the chapter I present some verbs with combinations of derivational suffixes.

(Inchoative) state verbs very often have a final or last vowel **a**. Unlike the verbal “default” final or last vowel **ɔ**, this **a** has an association with (inchoative) stative meaning. (Inchoative) state verbs have an undergoer subject while their Completive typically expresses a present state and/or a change of state. They are not derived from other verbs, but in some cases relate to adjectives. Derivational relationships between verbs and adjectives are mentioned in chapter 10; examples of inchoative (state) verbs with Completives can be found in 12.5.7.

Noun-to-verb derivation is a very small-scale phenomenon. It is discussed in chapter 4.

### *Glossing*

In the glossing in this chapter, verbal derivational suffixes are separated from the lexical stem of the base verb, or from another suffix, through a hyphen, where possible. The colon preceding the tense/aspect/mood meaning of the verb comes after the (last) derivational gloss, but must be understood as having scope over the (main) verb as a whole, i.e. over the lexical root with derivational suffix(es). An example:

**ol**    **w-a.rék-me**    **pol**  
 people    C-work-BEN:INCOMPL    person  
 the people will work for the person

### *Order of derivational suffixes*

Derivational suffixes come after the verbal root in the following order:

root-REC1-CAUS2-CAUS1-REC2-PASS(1/2/3)-BEN-LOCAPP

The reciprocal suffixes can be reduplicated and a sequence REC2-REC1 is possible as well. A few items allow for a sequence CAUS2-CAUS1 and occasionally, what looks like CAUS2, may be analysed as a reduplicated CAUS2. If the base verb has a high tone, the high tone remains on the same mora in the derived verb. When the base verb has a final falling tone and the derivation adds a moraic unit, the falling tone is realized as a high tone (in accordance to the Contour Simplification Rule).

In this chapter I gloss the derivational suffixes, using BEN, LOCAPP, CAUS1, CAUS2, PASS1, PASS2, PASS3, REC1, REC2 and separating them from the root of the base verb, and from each other, by a hyphen. In the rest of the book, I do not gloss the derivational suffixes separately, but incorporate them in the lexical meaning of the verb. In case of Locative-applicative derivations with a locative or positional phrase as object, I add ‘at’ to the lexical meaning of the verb, in order to make clear that the derivation is present (or that I expect the derivation to be there, as it is not always apparent from the form).

Verbal derivation has implications for the verbal argument structure, i.e. for the relationship between verb and nominal constituents in the clause as well as for the semantic roles of verb complements. Before describing the various verbal derivations, I therefore first address the issue of determining the grammatical status of nominal constituents. For this, I make use of some general ideas concerning objects, as well as diagnostics for establishing objecthood in Bantu languages.

The basic word order of Lumun is SVO. Modifiers come after the noun, adjuncts tend to come at the end of the clause, and adpositional marking is proclitic. In view of Lumun’s SVO word order, its verbal derivational system and its ability to have a series of nouns following the verb —resembling the way semantic/grammatical relations are expressed in Bantu languages—, looking at Bantu object diagnostics does not seem far-fetched.

Nominal constituents are commonly divided (primarily) into subjects, objects and adjuncts.

Establishing the clausal subject is straightforward in Lumun. The (pro)noun or noun phrase preceding the verb or verbal complex is the subject. Moreover, non-dependent and non-focus-marked verbs agree with the noun class of the subject or carry the concord that corresponds with the subject pronoun (clitic). An example of the first:

**pəlla p-ɔ́ɔkó.t aʊn**  
 cat C-eat:COMPL rats

the cat has eaten the rats

No cases were found of post-verbal subjects. The example below (also cited in chapter 8.1.4), with the focused verb ‘have, need’ may seem to have a post-verbal subject (**pól ip-ɔ́ɔɔ** ‘human being’), but this is not the case. The subject of the verb ‘have, need’ is the food, not the human being. The verb expresses here that food is what ‘keeps’ (or ‘holds’) the human being:

**tuɔ́t ɪ-t-ɛ́n akk-ɔ́nó pól í-p-ɔ́ɔɔ cəne nɔ́-capó**  
 food RES-C-DEM FOC-have person RES-C-black here on-ground

food is the one that keeps/holds (lit. ‘has’) a human being here on earth (i.e. food is what a human being needs here on earth)

For comparison, the following was found not acceptable (making no sense). The sorghum can only be understood as the subject and the people as the object; the sentence does not allow for a reading as ‘sorghum is what people cultivate here’.

**\*míl ɪ-m-ɛ́n akk-ará ʊl cəné**  
 sorghum RES-C-DEM FOC-cultivate:INCOMPL persons here

To distinguish between object and adjunct, the criterion can be applied that the semantic role realized by an object argument is required by the verb, while the semantic role of an adjunct is not. An object is thus part of the argument structure of the verb and must be

present, though not necessarily overtly. Because of the absence of pronominal markers for non-person non-subjects (see chapter 6.4), an object can have a  $\emptyset$  realization. Out of context, however, it must be overtly present. The verb **ɛ̄t̄ɛt** ‘give’ requires, apart from an agent (realized as subject argument), a patient and a receiver. The patient and receiver are realized as object arguments, though not of equal status as will be argued further below. Out of context, these examples with only one object argument are not well-formed:

- \***m-p-ɛ̄t̄ɛt** ɔ-cɛccɛ̄    ‘I gave (to) Cɛccɛ̄’  
 \***m-p-ɛ̄t̄ɛt** aɣám        ‘I gave (to) the book’

Adjuncts are not semantically required by the verb and thus not part of its argument structure. This means that adjuncts can freely be present or absent.

Lumun allows for a series of adjacent post-verbal nominal constituents. It will be shown that access to the immediate post-verbal position differentiates between objects, and that, on the other hand, adjuncts share some properties with objects that are typical for the latter in Bantu languages. Before turning to Bantu object characteristics, I briefly look at case marking and the presence of prepositional proclitics in relation to objecthood.

#### *Case marking*

In several languages of the world (certain) objects are case-marked, i.e. segmentally and/or tonally marked for their grammatical relationship to the verb. In Niger-Congo languages, however, this is not common, though, interestingly, it is found in languages of the Heiban group of Kordofanian, notably Ebang (Schadeberg & Kossmann 2010, p. 83), Koalib (Boychev 2013) and Moro (Ackerman, Malouf & Moore 2017, p. 8). Lumun does not have case marking, nor has case marking been found in other languages of the Talodi group (Dimmendaal 2015, p. 48).

*Prepositional proclitics*

Cross-linguistically, nominal constituents marked by an adposition are often adjuncts. In Lumun, a nominal constituent preceded by one of the locative prepositional proclitics *ɪ-*, *nɔ-*, *tɔ-* and *tɔ-* can be an adjunct, but also an argument of the verb, in the latter case the verb requires the expression of its semantic role. I regard such locative/positional constituents required by the verb as objects, though the prepositional marking itself already makes them somewhat different from other objects.

In Bantu languages, three criteria are generally applied for the establishment of objecthood, as well as for differentiating between objects, i.e. for establishing primary objecthood (a.o. Hyman & Duranti 1982, Bresnan & Moshi 1993, Kioko 2000). An object:

- has access to the immediate post-verbal position;
- can become subject upon passivization;
- can be cross-referenced on the verb by a prefixal object concord.

Lumun has no agreement marking of objects on the verb, but the first and second criterion can be tested.

Schadeberg (1995) suggests some further properties that may be worth looking at upon examining grammatical relations between verb and nominal constituents in the Bantu clause. Three of these properties (object case marking by tone, shortened verb forms (i.e. conjunctive vs. disjunctive verb forms), and transitive agent nouns) do not play a role in Lumun. The fourth, metatony of verb forms, could be present in Lumun and will briefly be considered first.

*Metatony*

Some of the basic TAMs have a floating high tone: in prepausal position these verbs have a final low tone (not allowing for a rising-tone realization), while in non-prepausal situation a high tone appears on the following item (provided that the tonal make-up of the following item allows for this).

This phenomenon resembles what, since Meeussen (1967), has been called metatony in Bantu languages. The term was originally used for Low – High tonal alternations on the final vowel of class 15 (*ku-*) infinitives corresponding with absence resp. presence of a following object (Meeussen 1967, p. 111), but became extended to other verb forms displaying the same alternation before all kinds of constituents Hyman & Lionnet (2011). Hyman & Lionnet report that in languages with metatony in infinitive verb forms only, the phenomenon has been found only before objects, whereas in languages with metatony in various verb forms, it has only been found before any word. They consider it likely that there are also languages which have metatony only in infinitive verbs forms, but before any word, as well as languages with metatony in various verb forms, but before an object only (2011, p. 181).

In languages in which metatony only occurs before an object, the phenomenon can indeed serve as a diagnostic for objecthood. What I have described as a floating high tone (+H) associated with some of the basic TAMs, notably the Dependent Incompletive, the Incompletive and the Dependent Perfective, though not with verbs of all tone classes (see 12.5.3, 12.5.4 and 12.5.6) could probably be regarded as metatony, even though the high tone does not surface on the verb, but on the following constituent. However, Lumun, like several Bantu languages, falls in the category of “metatony in various verb forms before any word”. I have not found that certain constituents do not give rise to the high tone, I only found that metatony treats objects and adjuncts alike.

### *Subjectivization*

Various non-subject constituents can become subject of a passivized clause. For example, subjectivization is possible for both the recipient and the patient object of the non-derived ditransitive verb **ɛt̩t̩** ‘give’; for both objects (beneficiary and patient) of a benefactive derivation of a transitive verb (for example **ɔn̩k̩n̩** ‘carry for’); and for the beneficiary object and the prepositional phrase required by a benefactive verb with fixed preposition (for example **ar̩tt̩n̩t̩t̩ n̩n̩** ‘add on sth. for sb.’). Examples with these verbs are provided in 14.4.



The same section provides a case of subjectivization of a prepositionally marked locative argument (required by a verb with locative-applicative derivation) as well as a case of subjectivization of a locative adjunct (a constituent not required by the verb). Examples are also provided of subjectivization of instrumental adjuncts.

Various non-subject constituents are thus able to take up subject function in a passive construction, though some further testing would need to be done. This means that the criterion of subjectivization does not help to distinguish between different kinds of objects, nor even between objects and nominal adjuncts. Interestingly, also in Moro (Heiban group), objects realizing different semantic roles, including instrumental and locative roles, as well as locative and instrumental adjuncts can assume subject function in a passive construction (Ackerman & Moore, 2013).

In the type of grammatical construction below, however, two adjacent nouns coming after the verb are not both open to subjectivization. Such cases involve ‘possessor raising’. Compare the following examples:

**ɔl w-immá.t pul cá**  
 people C-see:COMPL person head

the people saw the head of the person

**pul p-imm-akó.t ca n-ôl**  
 person C-see-PASS1:COMPL head with-people

the head of the person was seen by the people (the person was seen by the people as to the head)

**\*ca c-imm-akó.t pul n-ôl**  
 head C-see-PASS1:COMPL person with-people

In this type of construction the noun with possessor role can be the subject of a passive verb, but the noun with the role of possessee cannot. The verb *imma* ‘see’ assigns two semantic roles: an agent/undergoer realized as subject, and a patient realized as object. Though semantically the head (of the person) is the actual patient, it

is not treated as an object, which can be seen from the fact that it cannot be subjectivized. It is instead the possessor that is “raised” to the function of (primary) object.

*Access to the immediate post-verbal position*

Objects differ as to their ability to access the immediate post-verbal position. For the non-derived ditransitive verb ‘give’ this was shown in chapter 6.4, where the following example was presented:

<b>k-kw-é̄t̄et</b>	<b>ɔ-kakká</b>	<b>ɔ-c̄ec̄c̄ê</b>
3-C-give:COMPL	PERS-Kakka	PERS-C̄ec̄c̄e
s/he gave C̄ec̄c̄e to Kakka		

The sentence above, which has two objects that are equal in terms of the person scale (see 6.4), allows for only one interpretation: the first object has the semantic role of recipient, the second the semantic role of patient. Thus, for the verb ‘give’, in case of equality on the person scale, the recipient is the primary object, the patient the secondary. However, as illustrated in 6.4, differences between objects of ‘give’ with respect to the semantic factor of person/animacy override the hierarchy of semantic roles, leading to ambiguity. The person hierarchy mentioned in 6.4 is repeated here:

*first person pronouns*  
*second person pronouns*  
*third person pronouns*  
*humans*  
*non-humans*

Examples of derived verbs with double objects with an equal value on the person scale show that there, too, a semantic role hierarchy is at work on the one hand, while, on the other hand, a higher value on the person scale will override the semantic role hierarchy.

The example below, with the Double Causative verb **ɨ̄c̄j̄et** ‘make sb. lay sb. down’ illustrates the semantic role hierarchy for a derived verb through objects equally high on the person scale: only the

causee-object (Cεccε) can occur immediately post-verbally, not the patient of the caused action (Kakka):

**ɔ-tuttú**    **p-ic-í-εt.ε**                      **ɔ-cεccé**    **ɔ-kakká**    **cik**  
PERS-Tuttú    C-lie\_down-CAUS2-CAUS1:COMPL    PERS-Cεccε    PERS-Kakka    VREF

Tuttú has made Cεccε lay Kakka down (Tuttú has made Cεccε make Kakka lie down)

The next example illustrates the semantic role hierarchy for a Benefactive + Locative Applicative derivation of a transitive verb ('eat') through objects equally low on the person scale. **ɲm̩ta** 'what' is the Benefactive object and comes immediately after the verb, followed by the patient object of the base verb. The Locative-applicative object, which here is a constituent with positional semantics, comes last:

**ana**    **ɲ-kw-ɔɾək-ántét**    **ɲín-tá**    **ɲúɾú**    **kapik**  
and    2-C-eat-BEN.LOCAPP:DEPPRFV    what-QW    asida    upright

but why were you eating asida while standing?

These 'why'-constructions with Benefactive derivation are further exemplified in 14.1. For the discussion about object properties here, it is important to note that, as soon as an object higher on the person scale is present, **ɲm̩ta** 'what' as Benefactive object no longer has access to the immediate post-verbal position. In such cases, **ɲm̩ta** does not just move further away from the verb, as would other objects, but recourse is taken to a different construction. While retaining the Benefactive derivation, **ɲm̩ta** is fronted before the verb and combined with **akka** 'that', giving **ɲm̩takka** (see also chapters 19.2 and 20.1.2).

The personal object pronoun in the example below is the patient argument of the transitive base verb **ɔɲɔt** 'like, want, love'. Because of its higher value on the person scale than **ɲm̩ta** it is realized as the primary object of the verb:

**ŋín-t-akka**      **ŋ-kw-ɔŋ-ín-t-ín**  
 what-QW-that      2-C-like-BEN:COMPL-O1

why do you love me?

Notably, ‘why’ can also be stated entirely outside of the verbal argument structure, in such case there is no Benefactive derivation (20.1.2).

Locative and positional objects of a Locative-applicative derivation never occupy the immediate post-verbal position (unless of course when the only object), but come in last position. Locative applicative derivations, however, can also require an argument expressing the semantic role of addressee, a role typically realized by a noun denoting a human. A human locative-applicative object will be drawn closer to the verb, as illustrated below, where Kakka is the object of the Locative-applicative derivation. It will however not surpass a human Benefactive object (the child).

**m-p-ípitt-m̄t̄et**      **ókul**      **ɔ-kakká**      **ŋúi**  
 1-C-ask-BEN.LOCAPP:INCOMPL    child      PERS-Kakka      milk

I will ask Kakka for milk for the child

The nouns referring to the child and to Kakka in the example above cannot be reversed without a change of semantic roles, which means that the common noun **ókul** and the personal name (kinship term) **ɔkakká** are equal on the person scale.

It should also be noted that the primary object can be  $\emptyset$ . In the example below, with the Benefactive verb **ɔkkín̄t̄et** ‘do for, make for’, the Benefactive object is **kwɔcán**, the grass mentioned in the preceding clause. **kwɔcán** cannot be overtly referenced, since there are no object pronouns for non-humans. **antɔkkín̄t̄et ŋúcul** means that they ‘made a sauce for it’ (for the boiled grass), not that they ‘made a sauce’ and **ŋúcul** ‘sauce’ is not the primary object.

**... a-kín      anɔ      kwɔcán**  
 CONJ.PERS-3A      boil:DEPINCOMPL      grass(k.o.)

**a-kín      ant-ɔkk-ínɬet      ɲócul**  
 CONJ.PERS-3A      can:DEPINCOMPL-do-BEN:DEPINCOMPL      sauce

and they boiled grass (k.o.) and they made a sauce for it (i.e. for the boiled grass. In times of hunger people ate boiled grass as if it were asida).

The case described above of **ɲmɬa** ‘what’ as Benefactive object in a ‘why’-construction can be seen as a case in which the object, due to its position on the person hierarchy, was not only unable to hold the immediate post-verbal position assigned to it on the basis of its semantic role, but also could not remain within the post-verbal object sequence. Another deviating case, though in a different way, is the following. The abusive nouns **pənan** ‘(on) his/her mother’ and **kəné** ‘(on) your mother’ must be used together with a Benefactive derivation. The abusive word can immediately follow the verb, which is expected, but it can also come last, even after a non-animate noun. Compare:

**m-p-a.nék-ínɬet      pənan      ɔ-kakká      kəret      á-n-áko**  
 1-C-take-BEN.LOCAPP:INCOMPL      mother      PERS-Kakka      cloth      SUBJ-1-wear:DEPINCOMPL

I will take Kakka’s dress, on her mother, and wear it (myself)

**m-p-a.nék-ínɬet      ɔ-kakká      kəret      pənan      á-n-áko**  
 1-C-take-BEN.LOCAPP:INCOMPL      PERS-Kakka      cloth      mother      SUBJ-1-wear:DEPINCOMPL

I will take Kakka’s dress, on her mother, and wear it (myself)

It seems that in this case, the semantic role of abusive term can take priority over the high animacy value of **pənan**, directing the noun to the last position. This semantic role may allow it to function much like an interjection (as abusive words do in many languages, relatively unbound to syntactic positions), even though it is an argument of the verb.

I conclude that, in a Lumun clause, all objects are not equal, but one is the primary object. The primary object, in principle, occupies the immediate post-verbal position. Access to this position, however, is blocked if an object is present that is higher on the person hierarchy.

Which object is the primary object seems determined by a hierarchy in semantic roles of objects. The number of objects and their semantic roles are determined by the lexical verb (including its derivational suffixes). For example, a recipient or beneficiary is higher in the semantic hierarchy than a patient.

### 14.1. The Benefactive

Benefactive verbs are transitive verbs that are derived from an intransitive or a transitive base verb through addition of the suffix (ɪ)nɛ. Benefactives have increased valency as compared to their base verb. The added argument typically has the semantic role of beneficiary, but can have other semantic roles as well. The suffix is very productive.

#### *Form*

The Benefactive suffix is (ɪ)nɛ. nɛ replaces a stem-final ɔ, the shorter variant nɛ is attached after a stem that ends in a or ɛ. When attached to a stem with +ATR vowels (i.e. containing ɪ or u) the suffix is realized as [ine] or [ne]. Examples:

aɔ ‘come’	a-nɛ ‘come to’
unɔ ‘pour’	un-ɪnɛ [un-ine] ‘pour for’
ɔrɛkɔ ‘work’	ɔrɛk-nɛ ‘work for’
ɛrɛ ‘speak’	ɛrɛ-nɛ ‘speak to’
ɔnâ ‘bring’	ɔnâ-nɛ ‘bring for, to’

Derivations adding a moraic unit based on verbs with L.L.HL tones are the exception to the rule that a high tone stays in place. The high tone moves one mora to the left:

ɔrɛkɔ ‘eat’	ɔrɛk-nɛ ‘eat for’
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When replacing the ɔ of the Reciprocal suffix arɔ, the Benefactive suffix is realized with a reduced vowel, as ənɛ:

ɪkkɔ ‘sit, stay’	ɪkk-ar-ənɛ ‘stay for each other’ (ɪkkɔ + arɔ + nɛ)
------------------	--

The combination Benefactive (ɪ)ne + Locative-applicative t is realized as (ɪ)nɪtɛt, not \*(ɪ)net. Benefactives derived from t-final verbs end in (ɪ)nɪtɛt, irrespective of whether the t functions as a productive suffix or is part of a lexicalized verb. Examples:

ɔkkɔt ‘do, make’	ɔkk-ɪnɪtɛt ‘do for, make for’
aɾantɔt ‘collect’	aɾant-mɪtɛt ‘collect for’
ɔtɪɔt ‘send’	ɔtɪ-ənɪtɛt ‘send to’
ɔkúccɛt ‘prepare’	ɔkúccɛ-nɪtɛt ‘prepare for’
ɔɲat ‘like, love’	ɔɲa-nɪtɛt ‘like for, love for’

Note in the examples above that in ‘send to’, after the vowel ɪ the suffix is realized as ənɪtɛt. After the Reciprocal suffix arɔ, too, the combined suffix mɪtɛt is realized as ənɪtɛt:

ɔkkɔt ‘do, make’	ɔkk-ár-ənɪtɛt ‘do for e.o., make for e.o.’
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The verb ɛɔ̂ ‘go’ has a suppletive Benefactive form: ɔ-ɪne ‘go to’.

#### *Argument structure of Benefactive verbs*

Benefactives can be based on intransitive and transitive stems. The Benefactive suffix increases the valency of the verb. The first example below, with the non-Benefactive verb ɪta ‘cook’, has two arguments: a subject and an object. The second, with the Benefactive verb ɪtane ‘cook for’, has three arguments. The Benefactive object is the primary object, occupying the immediate post-verbal position.

ɔ-kakká	p-ɪtá.t	ɲúrú
PERS-Kakka	C-cook:COMPL	asida

Kakka has cooked asida

ɔ-kakká	p-ɪtá-ne.t	ɔ-kumáɲ	ɲúrú
PERS-Kakka	C-cook-BEN:COMPL	PERS-Kumaɲ	asida

Kakka has cooked asida for Kumaɲ

*Semantic roles of the added argument*

The added argument for which the verb is marked as Benefactive can have a beneficiary (or maleficiary) semantic role, it can express a non-locative goal and it is used in certain ‘why’-constructions. With the verb **ere** ‘speak’ it allows for expression of the addressee. Possessors are also attested as arguments of Benefactive verbs. Some examples with a beneficiary argument:

**ɔráne** ‘cultivate for’

**ɲ-kw-ânɕan á-rit ɔrá-ne áləpaccôɕ**  
 2-C-come:INCOMPL PERS.SUBJ-12 cultivate-BEN:DEPINCOMPL jackal

you come so that we cultivate for the jackal (‘The story of the jackal’)

**aɲme** ‘open for’

**ɔ-kakká p-aɲ-á.nɕet ukul kəɕət**  
 PERS-Kakka C-open-BEN:PST child door

Kakka opened the door for the child

Sometimes the added argument has a maleficiary role:

**ɔɕákinε** ‘eat for’

**ɭɕək ɭ-a.ɕək-me púl p-əɕek mɿl**  
 goats C-eat-BEN:INCOMPL person C-some sorghum

the goats will eat somebody’s sorghum

When used with a human goal, verbs like **aw** ‘come’, **éŋ** ‘go’, **ɔɕɕɔt** ‘send’, **ɔnâ** ‘bring’ and **ɔnékɔ** ‘take’, are constructed with a Benefactive:

**ɔ-cεccé p-á-íne ɔ-nné**  
 PERS-Cεccé C-go-BEN:INCOMPL PERS-your\_mother

Cεccé will go to your mother

**m-p-a.nék-me kəllán kummək**  
 1-C-take-BEN:INCOMPL old\_woman pot

I will take the pot to the old woman



Coming or going to a place is expressed without Benefactive derivation, as in the following example. ‘The church’ is marked by the prepositional proclitic (PPC) **tə-** ‘(up) at’:

**ɔ-cɛccɛ**    **p-á.éʃ**    **tə-man**    **m-ó-kapík**    **cɪpɪn**    **éŋ-c-í**  
 PERS-Cɛccɛ    C-go:INCOMPL    up\_on-house    C-of-God    evening    DEM-C-NEARSP

Cɛccɛ will go to the church this evening

It is possible to have the Benefactive of ‘go’ with ‘the church’ as Benefactive object, but now the sentence has a different meaning:

**ɔ-cɛccɛ**    **p-á-íne**    **man**    **m-ó-kapík**  
 PERS-Cɛccɛ    C-go-BEN:INCOMPL    house    C-of-God

Cɛccɛ will go and take charge of the church (Cɛccɛ will run the church)

The Benefactive is used in certain ‘why’ (‘for what’) constructions. The added argument questions purpose, reason or cause:

**m-p-a.móŋe-ne**    **ŋín-ʒa**  
 1-C-steal-BEN:INCOMPL    what-QW

why will I steal?

**ŋín-ʒ-akka**    **kəmən**    **éŋ-k-í**    **k-úntá-ne.t**  
 what-QW-that    houses    DEM-C-NEARSP    C-collapse-BEN:COMPL

why have these houses collapsed?

The expression **ilên akka** +H ‘that’s why’ combines with a Benefactive. The derivation is based on **ɔŋat** ‘like, love’:

**ɪ-l-ên**    **akka**    **ól**    **w-ɔŋá-nʒet**    **ɪttɪ**    **w-íkkɔ**    **cɪk ʒáɾu**  
 RES-C-DEM    that    people    C-like-BEN:COMPL    that    PRO.C-sit:INCOMPL    VREF ʒáɾu

that is why people like to live in ʒáɾu

The verb **ɛɛ** ‘speak’ takes a direct object such as **lɔn** ‘words’ or **karrô** ‘mother tongue’. It does not allow for the addressee to be expressed unless the Benefactive suffix is present:

**ere-ne.t    ɔ-páppa    itti    ɔ-nɪn    ṭ-a.ɪk    ṭ-ɔpərɔṭ**  
 speak-BEN:IMP    PERS-my\_father    that    PERS-1A    C-be:PR    C-good  
 tell my father that we are fine!

The Benefactive also allows for ‘external possessor’ constructions. In such constructions, possessee and possessor noun are not together in a single NP (with the possessor modifying the possessee). The possessor is the Benefactive object and occupies the immediate post-verbal position. Comparable constructions are found in several other languages, for example in Citumbuka (Chavula 2016, p. 118-120).

The two examples with Benefactives below can alternatively be expressed with a non-Benefactive verb and a single object argument with possessor and possessee in a connexive construction. The Benefactive in the first example is derived from **ɔɲɔt** ‘like, want, love’:

**ɔkʊl    w-ɔɲ-ɪnṭɛt    ɔ-paɲ    ɲurú**  
 child    C-like-BEN:COMPL    PERS-sibling    asida  
 the child likes his sister’s asida (made by his sister)

**ɔkʊl    w-ɔɲɔṭ.é    ɲurú    ɲ-ɔ-páɲ**  
 child    C-like:COMPL    asida    C-of.PERS-sibling  
 the child likes the asida of his sister (made by her)

**ṭɪ̣    ṭ-ɔccɔk-ɪnṭɛt    ɔkʊl    kərét**  
 thorn    C-catch-BEN:COMPL    child    cloth  
 a thorn has caught the shirt of the child

**ṭɪ̣    ṭ-ɔccɔkɔṭ.ɛ    kərét    k-ɔ-kkʊl**  
 thorn    C-catch:COMPL    cloth    C-of-child  
 a thorn has caught the shirt of the child

The earlier given example of a maleficiary role of the Benefactive object (repeated below) is also a case of external possession. It could alternatively be expressed with a non-Benefactive verb and a connexive construction:

**l̥ɛɔk**   **l-a.ɾák-mɛ**   **pól**   **p-əɾɛk**   **m̥ɪl**  
 goats   C-eat-BEN:INCOMPL   person   C-some   sorghum

the goats will eat somebody's sorghum

**l̥ɛɔk**   **l-a.ɾəkɔ**   **m̥ɪl**   **m-ɔ-pól**   **p-əɾɛk**  
 goats   C-eat:INCOMPL   sorghum   C-of-person   C-some

the goats will eat somebody's sorghum

It seems that there may be some semantic difference between the alternatives, in the sense that the external possessor construction presents the possessor-noun somewhat more as an 'affectee' (which is either positively or negatively affected) than as (just) a 'possessor'. This was, however, not confirmed by my consultant (JS).

As mentioned earlier, expressions with an abusive word such as **pənan** (related to **ənnân** 'his/her mother') must be combined with a Benefactive verb. The second example is given for comparison. It lacks an abusive word and the verb is not a Benefactive.

**ámá**   **ɔ-kákká**   **p-á-ínɛ.t**   **pənan**   **ana**   **k-kw-á.pɔkɔ**  
 if   PERS-Kakka   C-come-BEN:COMPL   mother   and   3-C-be\_beaten:INCOMPL

when Kakka comes, on her mother, she will be beaten

**ámá**   **ɔ-kákká**   **p-aá.t**   **ana**   **k-kw-á.pɔkɔ**  
 if   PERS-Kakka   C-come:COMPL   and   3-C-be\_beaten:INCOMPL

when Kakka comes, she will be beaten

#### *Verbs without a non-Benefactive counterpart*

Verbs that seem to contain a Benefactive suffix but lack a non-Benefactive counterpart are rare. The only cases attested are **ɔkəne** 'show' and its Pluractionals **əŋkəne** and **əŋkəkəkəne**. Apart from the absence of a non-Benefactive counterpart, these verbs behave morphologically different from Benefactives. The examples below show that the Passive suffix (V)**tta** is attached after, not before, the ending **ne**. Attachment before **ne** would be expected when the verbs were Benefactives:

<b>ɔkʰəne</b> ‘show’	<b>ɔkʰəne-tta</b>
<b>ɔŋkʰəne</b> ‘show (pl. obj. participants), teach’	<b>ɔŋkʰəne-tta</b>
<b>ɔŋkʰəkʰəne</b> ‘habitually show, habitually teach’	<b>ɔŋkʰəkʰəne-tta</b>

Moreover, the Benefactive suffix can be added after (V)tta:

<b>ɔŋkʰəne-tta</b> ‘be shown, be taught’	<b>ɔŋkʰəne-tta-ne</b> ‘be shown for, be taught for’
--	---

It is, however, likely that **ɔkʰəne** historically derives from a verb with the Benefactive suffix, hence its ditransitive argument structure:

<b>ɔ-kín</b>	<b>t-ɔkʰənɛ.r-ín</b>	<b>pápê</b>
PERS-3A	C-show:COMPL-O1	fish

they have shown me the fish

## 14.2. The Locative-applicative

The Locative-applicative suffix is **t**. If it is present, it occurs in stem-final position, after the final vowel of the stem. A verb that already ends in **t** cannot undergo Locative-applicative derivation. When the suffix is added to a verb with the Benefactive suffix (ɪ)ne, the ending of the verb changes into (ɪ)nɛt, not \*(ɪ)net.

The Locative-applicative is, semantically and syntactically, a complex derivation. It has different applications with different valency effects and different degrees of productivity. The suffix signals spatial information and/or affectedness of its complement. Several verbs with the suffix have lexicalized semantics.

When the suffix is productively applied, the derived verb requires the expression of a locative or positional semantic role. In such cases, a spatial object must be present for the expression to be grammatical, though this presence may have a  $\emptyset$  surface realization. This spatial object is realized, for example, as a prepositional proclitic (PPC) + noun, or as an adverb. The suffix can also license an ‘affectee’ object, an entity that is being touched at or being affected, and that is realized without a prepositional proclitic. This function of the suffix

does not allow for productive application. With some verbs, the suffix does not increase the valency of the verb, but changes the semantic role of its object: from full patient or undergoer to ‘affectee’.

In some derivational pairs the verb with **t**-suffix has developed lexicalized semantics. There are also several **t**-final verbs that lack a counterpart without the suffix. Both types of verbs do not require the presence of a locative constituent.

Finally there is a small set of verbs (apart from **t**-final verbs) that do not take the Locative-applicative suffix at all.

### *Form*

Synchronically the Locative-applicative suffix is **t**. This is evidenced by its change into **r** before an element that begins with a vowel. The verb used for illustrating this is **ipittət** ‘ask sb.’, which is the Locative-applicative derivation of **ipittə** ‘ask’.

**m-p-ípitto-t**      **ɔ-kakkâ**      [mbíβitɔr ɔʔakâ]

1-C-ask-LOCAPP:INCOMPL      PERS-Kakka

I will ask Kakka

The **t**-suffix probably developed from an older form **ṭ**V. Loss of the final vowel of this suffix changed **ṭ** into **t**, as in word-final position **ṭ** is not allowed. The older form **ṭ** is retained in forms with a vowel-initial pronoun enclitic (first example below), as well as in some TAM-forms (second and third example below). In these cases the suffix is realized as **ð**, the intervocalic allophone of **ṭ**.

**m-p-ípitto-ṭ-ðk**      [mbíβitɔððḳ]      (< **m-p-ípitto-t** +H + **ɔk**)

1-C-ask-LOCAPP:INCOMPL-3:O

I will ask her

**m-p-ipittɔ-ṭ.ɛ**      **ɔ-kakkâ**      [mbíβitɔðɛ]

1-C-ask-LOCAPP:COMPL      PERS-Kakka

I have asked Kakka

**ipittɔ-t.ɛ**      **ɔ-kakkâ**      [Iβitɔðɛ]  
ask-LOCAPP:IMP    PERS-Kakka  
ask Kakka!

*The Locative-applicative suffix as a pragmatic device*

The derivation establishes a connection between verb and spatial constituent. With productively derived verbs, the spatial constituent is not a mere adjunct, but functions as an object argument, which cannot just be left out.

The Locative-applicative suffix tends to be applied productively in order to signal spatial information in the clause, unless

- (specific) spatial information is already presupposed by the verb without the derivation;
- the suffix would put undue focus on the (connection between verb and) locative constituent.

The use of the derivation as a productive tool signalling spatial information is thus driven by a combination of semantics of the verb and pragmatics of the communication. It is considered obligatory in some contexts, optional in others (putting different focus in the clause), not felicitous in again others, and in some contexts not possible.

Constituents expressing the spatial information demanded by the Locative-applicative verb can be place names, place question words, spatial adverbs such as **kapik** ‘upright’, place deictics, prepositional phrases with **ɪ-** ‘in’, **nɔ-** ‘on, at’, **tɔ-** ‘(up) on, (up) at’ or **tɔ-** ‘at’, or a compound preposition that starts with one of these. By contrast, a locative constituent preceded by the prepositional proclitic (PPC) **ń-** ‘with, by, (away) from’, cannot function as the argument that relates to the **t**-suffix.

Verbs that already end in **t** cannot take the derivation. An example is the verb **ɪt** ‘find’:

**m-p-ɪɬ.é**      **kóllân**  
 1-C-find:COMPL      old\_woman

I found/met the old woman

**m-p-ɪɬ.é**      **kóllân**      **nɔ-kat̩ɔr**  
 1-C-find:COMPL      old\_woman      on-road

I found/met the old woman on the road

Obligatory, optional and not-felicitous use of the derivation signalling spatial information will be exemplified below, as well as verbs that cannot take the derivation due to their semantics.

The verb in the first example below does not have the Locative-applicative suffix. On the verbs in the other two examples, with locative constituents, the Locative-applicative suffix is obligatorily present. (Specific) spatial information is not already presupposed by the verb without the derivation, nor is there context that asks for the connection verb-locative constituent to be downplayed.

**ɔ-kín**      **t̩-ín-arɔ**      **acín-ɬa**  
 PERS-3A      C-know-REC1:INCOMPL      when-QW

when will they get to know each other?

**ɔ-kín**      **t̩-ín-arɔ-t**      **kárə-ɬa**  
 PERS-3A      C-know-REC1-LOCAPP:INCOMPL      where-QW

where will they get to know each other?

**ɔ-kín**      **t̩-ín-arɔ-t**      **kárətt̩m / cəné / ɪ-man**      **m-ɔ-kapik**  
 PERS-3A      C-know-REC1-LOCAPP:INCOMPL      Khartoum      here      in-house      C-of-God

they will get to know each other in Khartoum / here / in the church

In the next example, the Benefactive derivation of **ɔɾək̩** ‘eat’, **ɔɾək̩nɛ** ‘eat for’ is used in the ‘why’-construction. The Locative-applicative **t̩** is present, giving **ɔɾək̩nt̩ɛt**, because of **kapik** ‘upright, in upright position’.

**ɲín-t̩-akka**      **a-ɾək̩-m̩ɛt**      **ɲurú**      **kapik**  
 what-QW-that      CONJ-(2-)eat-BEN.LOCAPP:DEPINCOMPL      asida      upright

why do you eat asida while standing?

The next examples include two cases (the second and the fifth) with a constituent preceded by the PPC **ń-** ‘with, by, (away) from’. **nti** ‘from’ in the second example contains **ń-** ‘with, by, (away) from’ (see chapter 16.5). The verb **ɔllɔ** ‘run’ (here: ‘leak’) does not imply a locative constituent to be present (nor does the Pluractional verb **ɔkɛccɛ** ‘cut’). Compare:

**ŋəɽɪ**      **ŋ-a.ɪk**      **ŋ-a.ɪɔ-t**      **nɔ-capó**  
 water      C-be:PR      C-run-LOCAPP:INCOMPL      on-ground

the water is leaking onto the ground

**ŋəɽɪ**      **ŋ-a.ɪk**      **ŋ-a.ɪɔ**      **n.ti**      **ɪ-páka**  
 water      C-be:PR      C-run:INCOMPL      from      in-jerrycan

the water is leaking out of the jerrycan

**m-p-a.kɛccɛ-t**      **ɽún**      **nɔ.ppǎn**  
 1-C-cut.PLUR-LOCAPP:INCOMPL      onion      inside

I will cut the onions inside

**m-p-a.kɛccɛ-t**      **ɽún**      **nɔ-cáɽɽak**  
 1-C-cut.PLUR-LOCAPP:INCOMPL      onion      on-calabash

I will cut the onions into the bowl

**m-p-a.kɛccɛ**      **ɽún**      **ŋ-kəɽɽttaŋ**      **k-âŋ**  
 1-C-cut:INCOMPL      onion      with-knife      C-POSS2

I will cut the onions with your knife

Also in the following two examples the derivation must be used. The examples illustrate that absence or presence of the **t**-suffix does not depend on deixis (movement towards or away from the speaker as the deictic centre):

**ɔɽɔ-ɽ.ɛ**      **kɔrret**      **cəné**  
 pull-LOCAPP:IMP      line      here

draw a line (up to) here!

**ɔɽɔ-ɽ.ɛ**      **kɔrret**      **cɪt-téntərə**  
 pull-LOCAPP:IMP      line      LOC-over\_there

draw a line right (up to) there!



A case of optional use of the **t**-suffix, with the same verb as in the examples above, follows here. The Imperative based on the verb with **t**-suffix (second example) is not as pressing as the one based on the verb without it (first example). This is because the **t**-suffix directs the focus away from the action itself to the location where it must be carried out. This conveys a lesser urgency for the action to be performed immediately. In the translations I use italics to try and capture the differences in informational focus. In the second, there may be contrastive focus (but not necessarily).

**ᵛᵗ.ᵛ**      **kūrret**      **nó-kamór**  
 pull:IMP      line      on-sand

*draw a line* in the sand (do it now!)

**ᵛᵗᵛ-t.ε**      **kūrret**      **nó-kamór**  
 pull-LOCAPP:IMP      line      on-sand

*draw a line in the sand!* (the focus on the place takes away some of the urgency that the action should be carried out at once)

Use of the Locative-applicative **t** is generally not felicitous in the following situations:

- the specific place follows from the semantics of the verb itself or is evident from the type of action;
- the relationship between the action and the place of action is not relevant in the context.

The first example below has the verb **ᵛᵗᵛ** ‘pull’ again. Lines are typically drawn on the ground (with a stick) to mark pieces of land for making terraces for cultivation. The location (the ground) thus often follows more or less naturally from the action. Use of the **t** would put undue focus here on the ground as the location:

**ᵛ-kakká**      **p-á.ík**      **p-á.tᵛ**      **kórrét**      **nó-capú**  
 PERS-Kakka      C-be:PR      C-pull:INCOMPL      line      on-ground

Kakka is drawing a line on the ground

The verb **ᳵ᳚᳚᳚᳚** ‘work’ refers in the first place to farming. In the first example below, the place follows naturally from the verb itself. Use of the **t**-suffix in this example would imply that the man is not farming, but doing other work in his field. In the second example the **t**-suffix is present because now the spatial constituent represents information that is not implied by the verb.

<b>ᳵ᳚᳚᳚᳚</b>	<b>ᳵ-a.᳚᳚</b>	<b>ᳵ-a.᳚᳚᳚</b>	<b>᳚-᳚᳚᳚᳚</b>	<b>t-᳚᳚</b>
old_man	C-be:PR	C-work:INCOMPL	in-farming_field	C-POSS3

the old man is working in his field (he is farming)

<b>ᳵ᳚᳚᳚᳚</b>	<b>ᳵ-a.᳚᳚</b>	<b>ᳵ-a.᳚᳚᳚-t</b>	<b>᳚᳚-᳚᳚᳚</b>
old_man	C-be:PR	C-work-LOCAPP:INCOMPL	on-room

the old man is working in the room

The next pair contrasts two where-questions. The first, without the derivation, asks for the type of place that, in this context, is naturally implied by the verb (namely a body part). The second, with the derivation, asks for the place that, in this context, would not naturally be understood as the place asked for, namely the place where the event took place (for example, on the road to the market). The verb is **᳚᳚** ‘stab, blow’, with derivation **᳚᳚t**. **camu** is a sharp piece of dead wood fixed in the ground that has remained after a small tree or bush has been cut.

<b>camu</b>	<b>c-᳚᳚.r-᳚᳚</b>	<b>᳚᳚᳚᳚-᳚᳚</b>
piece_of-wood	C-stab:COMPL-O2	where-QW

where did the piece of wood prick/pierce you? (for example: in my left foot)

<b>camu</b>	<b>c-᳚᳚-t-᳚᳚</b>	<b>᳚᳚᳚᳚-᳚᳚</b>
piece_of-wood	C-stab-LOCAPP:COMPL-O2	where-QW

where did it happen that the piece of wood pricked/pierced you? (for example: on the road to the market)

The following sentence is a case of the second type where the Locative-applicative derivation is not felicitous. It is an answer to the question ‘where is Lalo?’. Instead of just answering that Lalo is ‘in the compound’, the speaker says ‘he is mending a bed in the compound’.

In the context of the question the place is the relevant information, though not as the location where Lalo is *mending*, but as the location where he *is*. The speaker, therefore, does not use the *t*-suffix on *ɔ̀t̩ɛ̀rɔ̀* ‘mend’:

**m-p-ɔ̀tte.t**    **n-a-ák**    **a-kw-ɔ̀t̩ɛ̀rɔ̀**                      **áɾaŋkal**    **nó-cə́rúk**  
 1-C-leave:COMPL    on-PERS-3    CONJ-3-mend:DEPINCOMPL    bed                      on-opening

I (just) left him, he is mending a bed in the compound

A few verbs never get the *t*-suffix: *ɔ̀ká* (**ɔ̀k**) ‘be’, *é̃* ‘go’, *aɔ̀* ‘come’ and *ɔ̀ná* ‘bring’, due to their semantics. The verbs ‘go’, ‘come’ and ‘bring’ are inherently goal-oriented and the locative verb *ɔ̀ká* ‘be’ is inherently place-oriented. Because of their natural locative orientation, the *t*-suffix has no function on these verbs when they are used with a locative constituent. They can, however, also be used without such a constituent, but recall that in such cases ‘be’ as a main verb must be combined with the ‘vague reference’ particle **ɔ̀k** replacing the locative constituent (unless it functions as a copular verb). Examples with ‘be’, ‘go’ and ‘bring’ follow here.

**m-p-a.ká**    **tórrô**  
 1-C-be:INCOMPL    Lumun\_country

I will be in Lumun country

**m-p-a.é̃**    **tórrô**  
 1-C-go:INCOMPL    Lumun\_country

I will go to Lumun country

**ana**    **ól**    **w-á.ná**    **ŋɔ̀pák**    **kéccôk**<sup>3</sup>  
 and    people    C-bring:INCOMPL    beer                      market

and the people bring beer to the market

*The Locative-applicative with objects not marked by a PPC*

When some positional verbs occur with the *t*-suffix, a locative prepositional phrase from the clause with the non-derived verb

<sup>3</sup> **kéccôk** ‘market’ is an inherently locative noun.

becomes object (without PPC) in the clause that has the locative-applicative suffix. The suffix establishes that the action, in one way or another, *concerns* this object, or that the object is affected by the action. The sentence with the underived verb and the sentence with the derived verb are typically semantically not precisely equivalent. Compare the following pairs of examples:

**ᵛ-kukkó**    **p-á.ík**    **p-á.cóꞛᵛ**    **nᵛ-karrāṅ**  
 PERS-Kukku    C-be:PR    C-stand:INCOMPL    on-wall

Kukku is standing on the wall

**ᵛ-kukkó**    **p-á.ík**    **p-á.cóꞛᵛ-t**    **kárraṅ**  
 PERS-Kukku    C-be:PR    C-stand-LOCAPP:INCOMPL    wall

Kukku is standing near the wall (maybe guarding it)

**ᵛ-kín**    **ᵗ-á.ík**    **ᵗ-íkkᵛ**    **cík**    **ɪ-ccík**    **k-ᵛ-ᵗík**  
 PERS-3A    C-be:PR    C-sit:INCOMPL    VREF    in-place    C-of-fire

they are sitting near the fire

**ᵛ-kín**    **ᵗ-á.ík**    **ᵗ-íkkᵛ-t**    **ᵗík**    **cík**  
 PERS-3A    C-be:PR    C-sit-LOCAPP:INCOMPL    fire    VREF

they are sitting near the fire (maybe guarding it)

**ᵛ-kín**    **ᵗ-á.ík**    **ᵗ-íkkᵛ-t**    **pól**    **cík**    **ákka**    **p-p-ᵛᵅᵛ**  
 PERS-3A    C-be:PR    C-sit-LOCAPP:INCOMPL    person    VREF    that    PRO-C-sick

they are sitting with the man because he is ill

The verb in the following example must have the locative-applicative derivation, though this cannot be seen from its form, since Dependent Perfectives of **ᵛcéꞛᵛ** and **ᵛcéꞛᵛt** are identical. **ᵛcéꞛᵛ** ‘make stand’, however, would imply that the spear stands by itself, without support, and in combination with a form of **ᵛcéꞛᵛ**, **ᵛᵅᵛ c-ᵛ-pira** ‘bottom of the tree’ could not be used without prepositional proclitic.

**a-kɪt**    **ᵛcéꞛᵛ-kat**    **kaᵗok**    **ᵛᵅᵛ**    **c-ᵛ-pira**  
 CONJ-wild\_chicken    make\_stand-LOCAPP:DEPPRFV    spear    bottom    C-of-tree

and the wild chicken made the spear stand against the bottom of the tree (the lower part of the tree trunk) (‘The story of the jackal’)

A few transitive verbs have a Locative-applicative derivation that introduces an argument that is deprived from something. Stealing something from a place is expressed with the verb **ᶇᶇᶇᶇ** ‘steal’ in combination with a locative constituent preceded by **ᶇ**- ‘with, by, (away) from’. Stealing something from a person is expressed with the **t**-final verb **ᶇᶇᶇᶇt** and a noun without prepositional marking referring to the victim. It seems that, with persons, stealing as affecting somebody takes prominence over the notion of stealing as an act of taking something away from a location.

**n-ᶇᶇᶇᶇᶇᶇᶇ**      **ᶇᶇᶇᶇt**                      **ᶇ-ᶇᶇᶇ-k-ᶇᶇ-ᶇᶇ**  
 2A-let:DEPINCOMPL      steal-LOCAPP:DEPINCOMPL      PERS-sibling-C-POSS2-PL  
 do not steal from your brothers! (plural addressee)

A case of change from intransitive to transitive verb is the following:

**kᶇᶇᶇ**              **k-a.ᶇk**              **k-ᶇ.kkᶇᶇᶇᶇᶇ**              **ᶇ-makkᶇᶇᶇ**  
 meat              C-be:PR              C-smell:INCOMPL              in-somewhere

meat is smelling somewhere (Said upon passing some houses. There is a smell of meat, but it is not clear where exactly it comes from)

**m-ᶇ-a.ᶇk**      **ᶇ-ᶇ.kkᶇᶇᶇᶇᶇt**              **kᶇᶇᶇ**  
 C-be:PR              C-smell-LOCAPP:INCOMPL              meat

I smell meat

*Non-valency increasing derivations: change of patient-role of object into affected-entity role*

The **t**-suffix can be used in order to express that an action is performed at, or upon, (part of) somebody or something. With the verb **ᶇᶇᶇ** ‘wash’, there is a difference between washing a cloth or bathing a person (or for example a cow). A cloth which is washed is put into the water entirely, while a person is typically not. The bathing of a person by somebody else is performed at, or onto (parts of) the body of that person and requires the **t**-suffix on the verb **ᶇᶇᶇ** ‘wash’ (second example below). Compare:

**m-p-ɔmé.t**      **kəré.t**

1-C-wash:COMPL      cloth

I have washed the cloth

**m-p-ɔmé-ʈ.ɛ**      **ɔ-kakkâ**

1-C-wash-LOCAPP:COMPL      PERS-Kakka

I have bathed Kakka

**\*m-p-ɔmé.t**      **ɔ-kakkâ**

1-C-wash:COMPL      PERS-Kakka

A comparable case is the following:

**m-p-a.kéccɛ**      **ʈɔʈák**

1-C-cut.PLUR:INCOMPL

rope

I will cut the rope (cutting it in two parts)

**m-p-a.kéccɛ-t**      **ʈɔʈák**

1-C-cut.PLUR-LOCAPP:INCOMPL

rope

I will cut the rope smooth (I will cut at the rope: I will cut off the fibres that are sticking out)

The Locative-applicative verb of ‘cut’, **ɔkéccɛt**, can also express that an action is performed upon oneself. Cutting somebody’s hair (or somebody’s nails) can be expressed with a possessive construction (first example below), but also with a Benefactive verb, where the possessor functions as the complement of the Benefactive verb (second example). If the action is performed upon oneself, on the other hand, the verb needs the **t**-suffix: the own body, though not explicitly mentioned, is the affected entity (or the location) of the action (third example).

**m-p-a.ik**      **p-a.kéccɛ**      **wan**      **w-ɔ-kakkâ**  
 1-C-be:PR      C-cut.PLUR:INCOMPL      hair      C-of.PERS-Kakka

I am cutting Kakka’s hair

**m-p-a.ik**      **p-a.kéccɛ-ne**      **ɔ-kakká**      **wǎn**  
 1-C-be:PR      C-cut.PLUR-BEN:INCOMPL      PERS-Kakka      hair

I am cutting Kakka’s hair

**m-p-a.ik p-a.kéccē-t wǎn**  
 1-C-be:PR C-cut.PLUR-LOCAPP:INCOMPL hair

I am cutting my hair

If a locative adverbial phrase is added to the first or second example above, the verb with **t**-suffix is used. The Benefactive verb **ǝkéccēne** ‘cut for’ (second example above) then becomes **ǝkéccēntet**.

**m-p-a.ik p-a.kéccē-ntet ǝ-kakká wan nɔ.ppǎn**  
 1-C-be:PR C-cut.PLUR-BEN.LOCAPP:INCOMPL PERS-Kakka hair inside

I am cutting Kakka’s hair inside

### *Some verbs of speech*

With verbs of speech the function of the **t**-suffix is different. The verbs **ɪt** ‘tell sb.’ and **ɔmēt** ‘tell sb.’ have an additional object with the role of ‘recipient’ of the speech, as compared to **ɪt** ‘say’ and **ɔmē** ‘say’. The same is true for **ɪpittɔ** ‘ask (for) sth.’, where the Locative-applicative derivation (**ɪpittɔt** ‘ask sb. (for) sth.’) adds the ‘recipient’ of the question. The Benefactive derivation adds an argument with beneficiary role to this verb (**ɪpittntet** ‘ask sb. (for) sth. for the benefit of’), cf.:

**m-p-ɪpittɔ ɲóí**  
 1-C-ask:INCOMPL milk

I will ask for milk

**m-p-ɪpittɔ-t ǝ-kakká ɲóí**  
 1-C-ask-LOCAPP:INCOMPL PERS-Kakka milk

I will ask Kakka for milk

**m-p-ɪpitt-mɛ ǝ-kakká ɲóí**  
 1-C-ask-BEN:INCOMPL PERS-Kakka milk

I will ask for milk for Kakka

**m-p-ɪpitt-mɛt úkol ǝ-kakká ɲóí**  
 1-C-ask-BEN.LOCAPP:INCOMPL child PERS-Kakka milk

I will ask Kakka for milk for the child

The nouns referring to the child and to Kakka in the last example cannot be reversed without a change of semantic roles.

With the verb **ερε** ‘speak’, the **t**-suffix takes what is spoken about as its complement (second example below), while the Benefactive derivation introduces the addressee of the speech. Note that the language is marked with **ń-** ‘with, by, (away) from’ in such cases (third example below).

**ul w-éρε kárrô**  
 people C-speak:INCOMPL mother\_tongue  
 the people speak Lumun

**ul w-éρε-t kárrô**  
 people C-speak-LOCAPP:INCOMPL mother\_tongue  
 the people speak about Lumun

**ul w-éρε-ne ɔ-nnán η-karrô**  
 people C-speak-BEN:INCOMPL PERS-mother with-mother\_tongue  
 the people speak to the mother in Lumun

The sentence below, with a locative adverbial phrase, is ambiguous. The locative-applicative derivation can be used because of the locative phrase, but it is also possible that **karrô** ‘mother tongue’ functions as its complement. The first case translates as ‘speak Lumun’, the second as ‘speak about Lumun’.

**ul w-éρε.t kárrô i-man m-ɔ-kapik**  
 people C-speak-LOCAPP:INCOMPL mother\_tongue in-house C-of-God  
 the people speak Lumun in the church / the people speak about Lumun in the church

Some speakers, however, combine **ερε** ‘speak’ with **nɔ-** instead of using the locative applicative derivation for ‘speak about’.

### *Lexicalizations*

Several verbs with the **t**-suffix have lexicalized semantics.



An example is the pair **ᵛᵛᵛᵛ** ‘push’ / **ᵛᵛᵛᵛᵛ** ‘send’. A prototypical situation of **ᵛᵛᵛᵛᵛ** is described as a mother pushing a child out of the house in the early morning in order to go and get fire from the neighbours. This pushing involves a locative goal and has lexicalized into the verb **ᵛᵛᵛᵛᵛ** ‘send’, which can occur without a locative phrase.

**ᵛ-kakká**    **p-ᵛᵛᵛᵛᵛ.ᵛ**    **ᵛkul**  
 PERS-Kakka    C-send:COMPL    child

Kakka has sent the child

The verb **ᵛᵛᵛᵛ** is used as ‘push’ (first example below). In the second example below, the verb has the **t**-suffix because of the locative phrase: a regular productive derivation exists here next to the lexicalized derivation.

**ᵛ-cεccé**    **p-á.ík**    **p-á.ᵛᵛᵛ**    **cóᵛᵛ**  
 PERS-Cεccε    C-be:PR    C-push:INCOMPL    stone

Cεccε is pushing the stone

**ᵛ-cεccé**    **p-ᵛᵛᵛᵛ-ᵛ.ᵛ**    **cóᵛᵛ**    **nᵛ-kuᵛᵛᵛ**    **k-ᵛ-kkwᵛn**  
 PERS-Cεccε    C-push-LOCAPP:COMPL    stone    on-lip    C-of-farming\_field

Cεccε has pushed the stone to the edge of the farming field

The vowel-final verb **ᵛᵛᵛᵛ** ‘push’ also has the more specialized meaning of ‘divorce’. Divorce is conceptualized as pushing the wife out of the compound: no locative goal is involved and the verb lacks the **t**-suffix.

**ᵛ-kukkó**    **p-ᵛᵛᵛᵛ.t**    **parí**  
 PERS-Kukku    C-push:COMPL    wife

Kukku has divorced his wife

Some more verbs with a lexicalized **t**-final counterpart follow here. The developments are not in all cases as transparent as in the pair **ᵛᵛᵛᵛ** / **ᵛᵛᵛᵛᵛ**.

**ᵛkkwᵛᵛ**    beat    **ᵛkkwᵛᵛt**    kill  
**ᵛkwᵛᵛ**    blow    **ᵛkwᵛᵛt**    ignite, blow at (fire)

<b>ɪɾkə</b>	enter	<b>ɪɾkət</b>	be busy
<b>ummə</b>	take, pick	<b>ummət</b>	come up (of sun, grass)
<b>ɪpə</b>	collect	<b>ɪpət</b>	dig (up), store
<b>əkəkə</b>	pass	<b>əkəkət</b>	do, make

Several **t**-final verbs lack a vowel-final counterpart. For some it is easy to think of a “natural” spatial complement, for others this is not so obvious. Though they have very diverse semantics, I suppose that all these verbs contain, historically, the **t**-suffix. They do not, or no longer, need the presence of a locative complement, although in some cases the element **cɪk**, functioning as a “dummy” place (or time) denoting element, is obligatory. For some of the verbs a corresponding verb without **t** does exist, but seems to be unrelated; such counterpart verbs are given in parentheses. Some examples:

**apɪkət** ‘rest’, **ɛt̪ət** ‘give’, **ɪttarət** ‘help’, **ɪttat** ‘become fat’ (**ɪtta** ‘get married’), **ɪcat** ‘lie down, sleep’, **ɪcat cɪk** ‘lie (down)’, **ɪntat cɪk** ‘disappear’, **əkúkwet** ‘splash (in the water)’, **əkúccet** ‘prepare’, **əkɰántət** ‘search’, **ənək̪ket** ‘put down’, **ən̪ət** ‘like, want, love’, **əpákkət** ‘return’ (**əpákkə** ‘wash one’s body’), **unət** ‘taste’ (**unə** ‘build’).

### 14.3. The Causatives

Lumun has a productive Causative suffix **ɪɛ** and a non-productive Causative suffix **ɛ** that occurs on a few verbs only. In this section, the suffix **ɛ** is glossed as CAUS1, the suffix **ɪɛ** as CAUS2. The two are in principle in complementary distribution, but this seems to be in a process of becoming somewhat fuzzy: some of the Causatives with the non-productive CAUS1 (**ɛ**) were, in elicitation, also given with the productive CAUS2 (**ɪɛ**), though in most of these cases doubt was expressed about the acceptability of the derivation with CAUS2, and in all cases the Causative with CAUS1 was the preferred.

In a few cases, Causatives with **ɛ** and with **ɪɛ** exist next to each other not as variants, but as different verbs. In such cases, the verb with **ɪɛ** is a double Causative: it is a derivation with CAUS2 based on a Causative that is derived with CAUS1.

Causatives can be derived from intransitive and from transitive verbs and have increased valency as compared to their base verb. The Lumun causative clause contains, apart from the Causative verb, at least two arguments: a “causer” and a “causee”. The causer-argument is the agent of the causation that is expressed by the verb. The causee-argument undergoes the causation and is at the same time agent or undergoer of the caused effect. In a situation of “direct causation” the causer-argument is directly and typically physically involved in the caused effect. In this situation control over the caused effect lies with the causer, not with the causee. In a situation of “indirect causation” the causer’s involvement in the effect is only indirect. The effect is caused by the causer, but actively carried out by the causee. In such a case, the causee is typically animate.

#### *Form*

The productive suffix **ɪɛ** (CAUS2) replaces a final or last vowel **ɔ**, **ɛ** or **a**. Upon attachment to a +ATR stem it is realized as **ɪɛ** [ie]. Some examples:

<b>akɔ</b> ‘wear; suck milk’	<b>akɪɛ</b> ‘dress sb.; breast feed’
<b>apɔ</b> ‘fall’	<b>apɪɛ</b> ‘make fall, drop (tr.)’
<b>arrɔt</b> ‘cross’	<b>arrɪɛt</b> ‘make cross’
<b>ɪkkɔ cik</b> ‘sit, stay’	<b>ɪkkɪɛ cik</b> ‘make sit, make stay’
<b>ɪkkɔ</b> ‘drink’	<b>ɪkkɪɛ</b> [ikkie] ‘make drink’
<b>accakɔ</b> ‘soak (intr.)’	<b>accakɪɛ</b> ‘make wet’
<b>ɔpákkɔ</b> ‘wash (intr.)’	<b>ɔpákkɪɛ</b> ‘help sb. wash’
<b>ɔkwárikɔt</b> ‘remember’	<b>ɔkwárikɪɛt</b> ‘make remember, remind’
<b>ɔccɔ</b> ‘take, receive’	<b>ɔccɪɛ</b> ‘make take, make receive’
<b>ɔllɔ</b> ‘run’	<b>ɔllɪɛ</b> ‘make run’
<b>ɔkkɔt</b> ‘make, do’	<b>ɔkkɪɛt</b> ‘make make, make do’
<b>ɔpállɛ</b> ‘be afraid’	<b>ɔpállɪɛ</b> ‘make afraid, scare’
<b>ɛɛ</b> ‘speak’	<b>ɛɛɪɛ</b> ‘make speak’
<b>ɔɲante</b> ‘enumerate, count’	<b>ɔɲantɪɛ</b> ‘make enumerate, count’
<b>ɔppêt</b> ‘get pregnant’	<b>ɔppɪɛt</b> ‘make pregnant’
<b>ɔppêt</b> ‘fill’	<b>ɔppɪɛt</b> ‘make fill’

<b>ella</b> ‘lack, be absent’	<b>ellie</b> ‘make disappear’
<b>ɔ́ɔ́kka</b> ‘grow (up)’	<b>ɔ́ɔ́kkie</b> ‘make grow (up), raise’
<b>ɪɪmat</b> ‘get dark, get blinded’	<b>ɪɪmɪet</b> ‘make dark, blind’
<b>ɔ́píra</b> ‘become good’	<b>ɔ́pírie</b> ‘make good’
<b>ɔ́kítaka</b> ‘become bad’	<b>ɔ́kítakie</b> ‘make bad’
<b>ɔ́ntɔ́ma</b> ‘become dry’	<b>ɔ́ntɔ́mie</b> ‘dry (tr.)’

In Causatives based on verbs with a L.L.HL tone pattern, the H tone occurs one mora to the left compared to the base verb:

<b>ɔ́ɾə́kɔ́</b> ‘eat’	<b>ɔ́ɾə́kie</b> ‘make eat’
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Causatives with the non-productive suffix **ɛ** (CAUS1) are a limited set. The suffix **ɛ** replaces a final or last vowel **ɔ** or **a**. The derivational pairs that I found are listed below. In the case of **ɔ́ɛ́ɾɛ** (< **ɔ́ɔ́ɾɔ́**), the second vowel has harmonized with the suffix.

<b>ɪɪkɔ́</b> ‘enter (intr.)’	<b>ɪɪkie</b> ‘make enter’
<b>ɔ́pákkɔ́t</b> ‘return (intr.)’	<b>ɔ́pákket</b> ‘make return, put back’
<b>ɔ́ɔ́ɾɔ́</b> ‘stand, wait’	<b>ɔ́ɛ́ɾɛ</b> ‘make stand, make wait, stop (tr.)’
<b>ɔ́páɾɔ́</b> ‘move at level height’	<b>ɔ́páɾɛ</b> ‘move at level height’
<b>ɔ́ɾə́pɔ́</b> ‘move down’	<b>ɔ́ɾə́pɛ</b> ‘make move down’
<b>ɔ́kúɾɔ́t</b> ‘move up’	<b>ɔ́kúɾet</b> ‘make move up’
<b>ɔ́páɾɔ́ cik</b> ‘move out of the way’	<b>ɔ́páɾɛ cik</b> ‘make move out of the way’
<b>ɔ́tákkarɔ́t</b> ‘move over’	<b>ɔ́tákkaret</b> ‘make move over’
<b>ɔ́kəɾɔ́</b> ‘get burnt’	<b>ɔ́kəɾɛ</b> ‘make burn’
<b>ɛɾekɔ́t</b> ‘grumble in oneself’ (related to <b>ɛɾɛ</b> ‘speak’)	<b>ɛɾeket</b> ‘convince’ (< make say to oneself)
<b>ɔ́kkɔ́t</b> ‘do, make’	<b>ɔ́kkɛ́t</b> ‘make (fire)’
<b>ɔ́ppát</b> ‘become full’	<b>ɔ́ppɛ́t</b> ‘fill’
<b>ɪ́cat cik</b> ‘lie (down)’	<b>ɪ́cet cik</b> ‘lay (down), make lie (down)’
<b>ɛɾɪma</b> ‘become deafened’	<b>ɛɾɪmɛ</b> ‘deafen’
<b>ɔ́rat cik</b> ‘become lost’	<b>ɔ́ret cik</b> ‘loose, forget’

**ɔ́ppɛ́t** ‘get pregnant’ is probably related to **ɔ́ppɔ́** ‘appear’, and the Locative-applicative verb **ɛɾekɔ́t** ‘grumble in oneself’ relates to **ɛɾɛ**

‘speak’, but has lexicalized semantics (< ‘speak to oneself’). It seems that its Causative, **ερεκετ** ‘convince’, was derived before **ερεκετ** developed its specialized, somewhat pejorative, semantics.

In the following cases it is impossible to decide whether the suffix is **ε** or **ιε**, since both would have the same result: **αρι-α** + **ιε** > (**αρι-ιε** >) **αριε**; **αρι-α** + **ε** > **αριε**.

<b>αρια</b> ‘become red, ripe’	<b>αριε</b> ‘make red, ripe’
<b>ετια</b> ‘become cool’	<b>ετιε</b> ‘make cool’

#### *Argument structure and semantics of Causatives*

Causatives with **ε** are typically based on intransitive verbs and are themselves transitive: they have a causer and a causee argument. Causatives with **ιε** can be formed on the basis of intransitive and transitive verbs, and are themselves transitive or ditransitive. In the latter case they have, apart from the causer and the causee, a third argument that typically has a patient or beneficiary role in the caused event. Both Causatives can express direct as well as indirect causation. Whether a verb expresses direct or indirect causation is in some cases determined by the verb itself, but can also depend on its collocation. Finally, some sentences can be interpreted both as direct and as indirect causation.

In order to demonstrate the argument structure, the sentences presented in this section are in some cases contrasted with a sentence that contains the base verb.

#### *Causatives with ε (CAUS1)*

Several of the verbs with **ε** are concerned with path of movement (‘make enter’, ‘make go up’, and others) or with putting someone or something in a certain position. An example of the latter follows here.

**ɔ-nnán p-ɨc-ε.káɥe ɔkɔl cɨk ná-aɾaŋkál**  
PERS-mother C-lie\_down-CAUS1:PST child VREF on-bed

the mother laid the child down on the bed / the mother made the child lie down on the bed

**ɔkɔl w-ɨca.káɥe cɨk ná-aɾaŋkál**  
child C-lie\_down:PST VREF on-bed

the child lay down on the bed

In this example, the causative can refer to a situation of direct involvement of the causer in the effect, but also to a situation of indirect involvement: a situation in which it is the child itself that carries out the action of lying down.

Also in the following examples, with a verb with  $\epsilon$  that is concerned with path of movement, the directness of the causers involvement is not determined by the verb itself. Here an interpretation as direct or indirect causation depends on the collocation of the verb. In the first two examples, with an inanimate causee, the causer is directly involved in the effect, in the third, the causer's involvement is less direct: the action of going back will be carried out by the people themselves.

**ant-ɔpákk-ε.t lón l-εn**  
can:DEPINCOMPL-return-CAUS1:DEPINCOMPL words C-DEM

please repeat what you said (lit.: please make those words return)

**ɔpakk-ε.ɥ.ε mɨl nɔ.ppǎn**  
return-CAUS1:IMP sorghum inside

put the sorghum back inside! (the addressee has just taken it out, but must put it back inside)

**ɔpakk-ε.ɥ.ε ôl**  
return-CAUS1:IMP people

make the people go back!

The example below is a clear example of indirect causation: the goats perform the action of going up.

**k-kw-ḡkuṭ-é.t.ε**      **l̥cək**      **təpərà**  
 3-C-move\_up-CAUS1:COMPL      goats      Təpərà  
 s/he made the goats move up to Təpərà

**l̥cək**      **l-ḡkuṭə.t.ε**      **təpərà**  
 goats      C-move\_up:COMPL      Təpərà  
 the goats moved up to Təpərà

A few verbs with  $\epsilon$  are Causatives derived from (inchoative) state verbs. They typically express direct causation. The causee (first example below) has an undergoer role. The noise is directly making the man deaf.

**pəṛé**      **p-εrim-é.t**      **pəl**  
 sound      C-become\_deafened-CAUS1:COMPL      person  
 the noise has deafened the man

**pəl**      **p-εrimâ.t**  
 person      C-become\_deafened:COMPL  
 the man is deafened (typically by a loud noise)

#### *Causatives with $\imath\epsilon$ (CAUS2)*

Causatives with  $\imath\epsilon$  are often derived from transitives, but can also be derived from intransitives. The Causative in the example below is based on an intransitive verb. Causation can be indirect and direct. The example below illustrates indirect causation. It describes the situation that the child, just upon seeing the dog, got scared and ran. The dog is present, but otherwise no action on its part is implied, it may even be sleeping. The causer, the dog, is involved in the causation, if only by its presence, but the effect is carried out by the child alone. The sentence cannot be interpreted as that the dog is running after the child.

**ṭok**      **ṭ-ḡll-ṛé.t**      **ḡkul**  
 dog      C-run-CAUS2:COMPL      child  
 the dog has made the child run

**ɔkɔl**    **w-a.ɪk**    **w-a.lɪs**    **aka-ín-ʦa**  
 child    C-be:PR    C-run:INCOMPL    that-what-QW  
 why is the child running?

The following example of direct causation is also derived from an intransitive verb. The child is typically a small child, unable to wash itself (properly) on its own. The child is not necessarily purely undergoing the washing, it may have some agent-role itself as well. In the second (non-Causative) example, the child is typically a bit older, washing itself alone.

**ɔpakk-ɪɛ**    **ɔkɔl**  
 wash\_body-CAUS2:IMP    child  
 help the child to wash itself! / bathe the child!

**ɔkɔl**    **w-a.ɪk**    **w-a.pákkɔ**  
 child    C-be:PR    C-wash\_body:INCOMPL  
 the child is taking a shower

Some Causatives with **ɪɛ** are derived from (inchoative) state verbs. Like the Causatives with **ɛ** that are derived from (inchoative) state verbs, they express direct causation:

**cɪŋkɪ**    **c-a.ɪk**    **c-á.nʦɔm-ɪɛ**    **əɾét**  
 sun    C-be:PR    C-become\_dry-CAUS2:INCOMPL    cloths  
 the sun is drying the clothes

**əɾét**    **w-a.ɪk**    **w-á.nʦɔma**  
 cloths    C-be:PR    C-become\_dry:INCOMPL  
 the clothes are getting dry

An example with a Causative based on a transitive verb follows here. Causatives based on transitive verbs often express situations of indirect causation. This is also the case in the following example: the causer can only make the causee decide to carry out the effect (swear an oath).



**k-kw-á.kkw-ɛ**    **pól**    **míǎ**  
 3-C-hit-CAUS2:INCOMPL    person    spell

s/he will make the person swear an oath

**pól**    **p-a.kkwɔ**    **míǎ**  
 person    C-hit:INCOMPL    spell

the person will swear an oath

There is lexical variation as to whether a causative verb allows for both a direct and an indirect causation as an interpretation. The following example based on the transitive verb **ɔɾəkɔ** ‘eat’ allows for both interpretations. It can be a case of indirect causation: the mother makes the child eat (for example by suggesting punishment if it does not), but it also allows for an interpretation as direct causation: the mother feeds the child. In the latter case she is directly and physically involved, putting asida in the child’s mouth.

**ɔ-nnán**    **p-á.ík**    **p-á.ɾók.ɛ**    **ókól**    **ɲurú**  
 PERS-mother    C-be:PR    C-eat-CAUS2:INCOMPL    child    asida

the mother is feeding the child asida / the mother is making the child eat asida

The situation is different with **akɔ** ‘wear, put on’, which only allows for a reading as direct causation. In the following example the causer has a direct physical involvement in the caused action. The sentence does not allow for a reading without such direct physical involvement.

**ɔ-nnán**    **p-ák-ɛ**    **ɲókól**    **əréɛ**  
 PERS-mother    C-wear-CAUS2:INCOMPL    children    cloths

the mother helps the children to put on their clothes (Not: the mother makes the children put on their clothes)

*Verbs allowing both Causative suffixes*

One verb occurs with both Causative suffixes: **ɪɾikɔ** ‘enter’. The most common Causative form has the suffix **ɛ**, but a variant with **ɪɛ** is considered acceptable as well. The variant with **ɪɛ** cannot be used in

the first example below, which is a clear situation of direct causation. It can, however, be used in the second example, with a (wilful) human causee. Notably, in the second example below, there is no difference between the verbs as to the way in which the causation is carried out (for example through persuasion or physically).

... **a-kw-ířik-ε**                      **káří**                      **ı-a-âk**  
 CONJ-3-enter-CAUS1:DEPINCOMPL      nail                      in-PERS-3

and he inserts his claw into him (the lion attacks the leopard) ('The story of the jackal')

**k-kw-ířik-é.t / k-kw-ířik-ıε.t**                      **ɔ-lóccɔ**                      **nɔ-ppăn**  
 3-C-enter-CAUS1:COMPL / 3-C-enter-CAUS2:COMPL      PERS-Lóccɔ                      on-room

s/he made Lóccɔ enter the room

Some of the other verbs with **ε** possibly have a variant with **ıε**. In most of these cases there was uncertainty about the acceptability of the verb with **ıε**. One such case is the verb **ɔřapê** 'make come down':

**ɔřap-ε**                      **ɔkɔl**                      **n-tɔ-cɔřɔl**  
 come\_down-CAUS1:IMP      child                      with-up\_on-stone(k.o.)

get the child down from the stone!

? **ɔřap-ıε**                      **ɔkɔl**                      **n-tɔ-cɔřɔl**  
 come\_down-CAUS2:IMP      child                      with-up\_on-stone(k.o.)

make the child come down from the stone!

There seems to be a subtle semantic difference between the two sentences above, but it was difficult to get clear what exactly the difference would be. The verb with **ıε**, if acceptable, seems to imply an effort on the part of both causer and causee, whereas the Causative with **ε** refers in the first place to an action by the causer. The translations try to reflect this. In both cases, the child can come down from the stone by itself, but it is also possible that the addressee gives it a helping hand.

Further Causatives with **ε** that can (possibly) also be used with **ıε** follow here. Most verbs with **ıε** have a question mark, indicating that

my consultant hesitated about their acceptability or that acceptability judgements about these verbs with **ɪɛ** were inconsistent. The forms with **ɛ** are the ones commonly used.

<b>ɪcat cɪk</b> ‘lie down’	<b>ɪcɛt cɪk, ɪcɪɛt cɪk</b> ‘lay sb. down’
<b>ɔrat cɪk</b> ‘become lost’	<b>ɔrɛt cɪk, ?ɔrɪɛt cɪk</b> ‘loose, forget’
<b>ɔcɔɽɔ</b> ‘stand, wait’	<b>ɔcɛɽɛ, ?ɔcɛɽɪɛ, ?ɔcɔɽɪɛ</b> ‘stop (tr.), make wait’
<b>ɔpáɽɔ</b> ‘go level’	<b>ɔpáɽɛ, ?ɔpáɽɪɛ</b> ‘go level’
<b>ɔpáɽɔ cɪk</b> ‘move out of the way’	<b>ɔpáɽɛ cɪk, ?ɔpáɽɪɛ cɪk</b> ‘make move out of the way’
<b>ɔkóɽɔt</b> ‘move up’	<b>ɔkóɽɛt, ?ɔkóɽɪɛt</b> ‘make move up’
<b>ɔpákkɔt</b> ‘return’	<b>ɔpákkɛt, ?ɔpákkɪɛt</b> ‘make return, put back’

#### *Double Causatives*

The above-mentioned pairs with **ɛ** and with **ɪɛ** (**ɪɽɪkɛ/ɪɽɪkɪɛ** and others) are based on the same non-Causative base verb and can, at least in some constellations (and as far as the forms with **ɪɛ** are at all considered acceptable) be used both. Three pairs of Causatives are attested with **ɛ** and with **ɪɛ** that have different argument structures. In such cases the verb with **ɪɛ** is a (ditransitive) double Causative, derived on the basis of the Causative with **ɛ**: **ɛ + ɪɛ > ɪɛ**. The attested cases are all derived on the basis of Causatives with **ɛ** that are themselves derived from verbs with final or last **a** (typically (inchoative) state verbs). The fourth verb of the small set of verbs with a final or last **a** that have a Causative with CAUS1 (**ɛrɪma** ‘become deafened’ / **ɛrɪmɛ** ‘deafen’) does not seem to allow for double derivation. This is perhaps because the causer argument of **ɛrɪmɛ** ‘deafen’ is typically non-animate (a loud noise).

A case of double derivation is **ɪcɪɛt cɪk** ‘lay down, make lie (down)’ (< **ɪcɛt cɪk** < **ɪcat cɪk** ‘lie (down)’). On the one hand **ɪcɪɛt cɪk** is said to be an alternative form of **ɪcɛt cɪk** (though in cases where both are possible, the latter is preferred), on the other hand it is also a different verb: a double Causative with an additional argument as compared to **ɪcɛt cɪk**. Where in the first example both verbs are possible (and both verbs can express direct as well as indirect

causation), the second example, with an additional argument, only allows for the double Causative *įcjet cık*.

**ɔ-kakká p-įc-ét.ε / p-įc-įc.ε**                                      **ɔkɔl cık**  
 PERS-Kakka    C-lie\_down-CAUS1:COMPL / C-lie\_down-CAUS2:COMPL    child    VREF

Kakka has laid the child down, Kakka has made the child lie down

**ɔ-kakká p-įc-į-ét.ε**                                      **ɔ-cɛccé ɔkɔl cık**  
 PERS-Kakka    C-lie\_down-CAUS2-CAUS1:COMPL    PERS-Cɛccé    child    VREF

Kakka has made Cɛccé lay the child down

The other attested pairs are *ɔret cık* ‘loose, forget’ (< *ɔrat cık* ‘become lost’) / *ɔriet cık* ‘make sb. loose sth., make sb. forget’, and *ɔppêt* ‘fill’ (< *ɔppât* ‘become full’) / *ɔppiet* ‘make sb. fill’. Compare:

**ɫɔntəɔ ɫ-ɔppát.ε**  
 calabash(k.o.)    C-become\_full:COMPL

the *ɫɔntəɔ*-calabash is full

**ɲɔkɔl ɲ-ɔpp-é.ɫε**                                      **ɫɔntəɔ ɫamór**  
 children    C-become\_full-CAUS1:COMPL    calabash(k.o.)    sand

the children have filled the *ɫɔntəɔ*-calabash with sand

**ɔ-kukkó p-ɔpp-ı-ét.ε**                                      **ɔ-nenni ɲəɽı ɫɔntəɔ**  
 PERS-Kukku    C-become\_full-CAUS2-CAUS1:COMPL    PERS-Nenni    water    calabash(k.o.)

Kukku made Nenni fill the *ɫɔntəɔ*-calabash with water

Most Causatives derived from (inchoative) state verbs (with a final or last vowel *a*) are derived by means of the CAUS2 suffix *ıε*. The Causative *ɔntəmıε* ‘dry’ (< *ɔntəma* ‘become dry’), can function as a transitive verb ‘dry sth.’, but also as a ditransitive verb ‘make sb. dry sth.’. In other words, this verb can express single causation (with one causee-object), but also double causation (with two causee-objects). In the latter case, *ıε* is perhaps the surface outcome of a doubled CAUS2 suffix (second example below).

**ɔ-kakká p-ɔntəm-ıε.t**                                      **əréɫ**  
 PERS-Kakka    C-become\_dry-CAUS2:COMPL    cloths

Kakka has dried the clothes (typically by waving them in the air)



**၁-kukkó** **ပ-irét.ε** **၁-lóccə** **itti** **k-kw-á.cεγ-ε** **၁-lalô**  
 PERS-Kukku C-say:COMPL PERS-Lóccə that 3-C-stand-CAUS1:INCOMPL PERS-Lalu

Kukku told Lóccə that he must stop Lалу

A syntactic construction expressing double causation is actually also more common in cases in which double derivation is possible (first example below) and also in the case of **၁nṭəm-ιε** ‘(make sb.) dry sth.’, a verb that can express both single and double causation (second example below).

**၁-kakká** **ပ-irét.ε** **၁-cεccé** **itti** **k-kw-ίc-εt** **ókul cɪk**  
 PERS-Kakka C-say:COMPL PERS-Cεccé that 3-C-lie\_down-CAUS1:INCOMPL child VREF

Kakka told Cεccé to lay the child down, Kakka told Cεccé to make the child lie down

**၁-kakká** **ပ-irét.ε** **၁-nenní** **itti** **k-kw-á.nṭəm-ιε** **əréτ**  
 PERS-Kakka C-say:COMPL PERS-Nenni that 3-C-become\_dry-CAUS2:INCOMPL cloths

Kakka told Nenni to dry the clothes

*Verbs with last or final vowel(s) (ɪ)ε and causative semantics, but without base verb*

There are a number of verbs with last or final vowels (ɪ)ε that suggest, based on their meaning, that they have developed as Causatives, but that lack a base verb from which they were derived. Such verbs almost always have ε, I found just one case with ιε. Some examples:

<b>aɾε</b>	‘hang sth. (make sth. hang)’
<b>၁cákkε</b>	‘make smooth, filter’
<b>uεt</b>	‘beg (make sb. accept)’
<b>၁kúccεt</b>	‘prepare (make ready)’
<b>၁nókket / ၁llókket / ၁rókket</b>	‘put down’
<b>akkəɾεt</b>	‘add (make sth. increase)’
<b>əɾεt</b>	‘save’
<b>၁ɾíkjε</b>	‘block sb.’s view (make sb. not see)’

These verbs with  $\epsilon$  can serve as a basis for Causative derivation with  $\text{ie}$ . For example  $\text{əkúccet}$  ‘prepare’ /  $\text{əkúcciet}$  ‘make sb. prepare’, and  $\text{aɾɛ}$  ‘hang sth.’ /  $\text{aɾie}$  ‘make sb. hang sth.’.

Since in these cases, the base-verbs themselves have inherent causative semantics (but are not regarded as Causative derivations because they lack a non-Causative base-verb) they semantically express double causation.

**k-kw-áɾé.t**    **kəret**    **nó-cáɾícáɾâ**  
 3-C-hang:COMPL    cloth    on-bush(sp.)

s/he has hung the cloth over the bush

**k-kw-áɾ-íé.t**    **ɔ-kakká**    **kəret**    **nó-cáɾícáɾâ**  
 3-C-hang-CAUS2:COMPL    PERS-Kakka    cloth    on-bush(sp.)

s/he has made Kakka hang the cloth over the bush

#### 14.4. The Passives

Lumun has three Passive suffixes: **-(a)kɔ** (PASS1), **-(V)tta** (PASS2) and **-(o)ra** (PASS3). I refer to verbs that contain one of these suffixes and that occur next to a base verb as Passive verbs or Passives.

In this section, I first present the form, distribution and function of the Passive suffixes. An agent argument can, in general, be expressed in Lumun passive clauses, but is usually omitted. Intransitive verbs can serve as base for a Passive derivation because oblique arguments (i.e. arguments marked with a preposition) with locative or instrumental role can function as subject of a Passive verb. With an instrument as subject, Passives denote the function of that instrument (i.e. what is done with it). Lumun does not have impersonal passive constructions.

An explanation for the existence of three instead of just one Passive derivational suffix will be proposed, suggesting that they have developed, on the one hand, from morphemes that historically had a different distribution related to plural versus non-plural semantics of the verb (PASS2 vs. PASS3), and on the other hand from morphemes

that historically had different functions (middle marking in the case of PASS1 versus passive marking in the case of PASS2 and PASS3).

Finally, some verbs are presented that (seem to) contain two Passive suffixes.

*The three Passive suffixes*

There are three Passive suffixes: **(a)kɔ** (PASS1), **(V)tta** (PASS2) and **(u)ra** (PASS3).

Many base verbs allow for two of these suffixes, and in some cases any of the suffixes is possible. These forms can simply be alternative possibilities, expressing the same meaning —though in most such cases one derivation is more commonly used—, but there can also be semantic differences, subtle in some cases, very clear in others. There are some distributional tendencies with regard to the choice between (or preference for one of) the three Passive suffixes, which relate to the final (or last) stem vowel of the base verb (in case of attachment of PASS1 or PASS2) and to its tonal structure in combination with the final (or last) stem vowel (in case of attachment of PASS3).

*Forms, attachment and distribution*

The suffixes **(a)kɔ**, **(u)ra** and **(V)tta** replace the final or last vowel of the base verb or come after it. If the base verb has a final **t**, this **t** remains in final position. If it contains a Benefactive suffix, the Passive suffix comes before the Benefactive suffix. **V** in PASS2 **(V)tta** stands for an underspecified vowel: its realization in the derived verb is determined by the vowel of the base verb that precedes it. Examples are given further below.

PASS1 **(a)kɔ** is the preferred suffix when a base verb ends in **ɔ** or **ɔt**. PASS2 **(V)tta** is the most common Passive suffix with verbs ending in **ɛ** or **ɛt**. Cases of PASS1 **(a)kɔ** attached to a verb ending in **ɛ** or **ɛt** are, however, attested next to Passives with PASS2, as are cases of PASS2 **(V)tta** attached to verbs ending in **ɔ** or **ɔt**. In the latter situation, Passives with PASS1 are sometimes not possible.



Verbs ending in **a** or **at**, as far as they allow for Passive formation at all, tend to be open to both PASS1 and PASS2, preference for one or the other is lexically determined.

The distribution of PASS3 (**u**)**ra** is restricted to a specific set of verbs: it occurs only on bimoraic verbs with L.HL tone pattern, particularly those that have a final or last vowel **ɔ**. There are, however, a few **ɔt**-final bimoraic verbs with L.HL tones that cannot take PASS3: these verbs only occur with PASS2 (**V**)**tta**. A case of PASS3 attached to a L.HL verb ending in **â** is also attested. All verbs that can take PASS3 also allow for both other suffixes. PASS3 is not attested with (**ɛ**)**t**-final verbs.

NB: The examples below just illustrate the attachment of the suffixes. In a few cases, there are semantic differences between Passives derived from the same base verb which are not revealed by the English translations provided here. Semantic issues will be discussed further below.

Attachment of PASS1 (**a**)**kɔ** to verb stems with different last or final vowels gives the following results:

**ɔ(t) + akɔ > akɔ(t)**

**a(t) + kɔ > akɔ(t)**

**ɛ(t) + kɔ > ɛkɔ(t)**

Examples:

**ɔkɔ** ‘cut’

**ɛlikkɔ** ‘release’

**ɔkwéntɔ** ‘leave (tr.)’

**ɔŋɔ** ‘fry’

**ɔŋɔt** ‘like, want, love’

**ɔkɔ-akɔ** ‘be cut’

**ɛlikk-akɔ** ‘be released’

**ɔkwént-akɔ** ‘be left over, remain’

**ɔŋ-ákɔ** ‘be fried’

**ɔŋ-akɔ-t** ‘be liked, be wanted, be loved’

**ma** ‘know’

**ɔnâ** ‘bring’

**ɔkwáriccat** ‘search for’

**ma-kɔ** ‘be known’

**ɔnâ-kɔ** ‘be brought’

**ɔkwáricca-kɔ-t** ‘be searched for’



<b>ina</b> ‘know’	<b>ina-tta</b> ‘be known’
<b>ɔ́tía</b> ‘fear’	<b>ɔ́tía-tta</b> ‘be feared’
<b>akɔ</b> ‘wear’	<b>ak-ətta</b> ‘be worn’
<b>ɔ́nɛ́kɔ</b> ‘take’	<b>ɔ́nɛ́k-ɪtta</b> ‘be taken’
<b>ɛ́likkɔ</b> ‘release’	<b>ɛ́likk-atta</b> ‘be released’
<b>ɔ́ɲɔ́</b> ‘fry’	<b>ɔ́ɲ-útta / ɔ́ɲ-ótta</b> ‘be fried’
<b>ɔ́kwɔ́</b> ‘blow’	<b>ɔ́k-útta</b> ‘be blown’
<b>ɔ́kkɔ́t</b> ‘do, make’	<b>ɔ́kk-óttat</b> ‘be done, be made’
<b>ɔ́kkwɔ́t</b> ‘kill’	<b>ɔ́kk-úttat</b> ‘be killed’

Attachment of Pass3 (ɔ)ra:

**ɔ́(t) + (ɔ)ra > úra(t)**  
**á(t) + ra > ára(t)**

Examples:

<b>ɔ́ɲɔ́</b> ‘fry’	<b>ɔ́ɲ-úra</b> ‘be fried’
<b>ɔ́ppɔ́t</b> ‘collect at’	<b>ɔ́pp-úra-t</b> ‘be collected at’
<b>ɔ́llá</b> ‘wipe (away)’	<b>ɔ́llá-ra</b> ‘be wiped (away)’

As mentioned earlier, passive suffixes always precede benefactive suffixes, cf.:

<b>ɔ́kwéntɔ</b> ‘leave (tr.)’	>	<b>ɔ́kwéntɪnɛ</b> ‘leave sth. for’ (BEN)
<b>ɔ́kwéntɔ</b> ‘leave (tr.)’	>	<b>ɔ́kwéntakɔ</b> ‘be left over, remain’ (PASS1)
<b>ɔ́kwéntakɔ</b> ‘be left over’	>	<b>ɔ́kwéntakɪnɛ</b> ‘be left over for’ (BEN + PASS1)

The following Passives have irregular forms:

<b>ɔ́kákɔ</b> ‘grind’	<b>ɔ́k-ótta</b> ‘be ground’
<b>ɔ́ɾɔ́kɔ</b> ‘eat’	<b>ɔ́ɾɔ́-tta</b> ‘be eaten’
<b>ɪpɔ́</b> ‘obtain, marry’	<b>ɪ-tta</b> ‘get married’
<b>ɔ́nɔ́</b> ‘build’	<b>ɔ́n-ta</b> ‘be built’
<b>ərrɔ́</b> ‘push, shoot’	<b>ərr-a</b> ‘be pushed, be shot’

**ᵛkótte** ‘trade (PLUR)’      **ᵛkótt-a** ‘be traded (PLUR)’  
**ᵛkɪɔ** ‘cut’                      **ᵛk-écca** ‘be cut’

*Argument structure and meaning of constructions with Passives*

All three derivations function as regular or canonical passives. Canonical passive constructions are generally defined in relation to active constructions with a transitive verb (a.o. Siewierska 1984). In its most typical form, a passive construction lacks an overtly stated agent argument (the argument that functions as the subject of the active transitive clause), while subject function is assumed by the argument that functions as object (with patient role) in the active clause. It is generally possible to express the agent as an oblique.

Examples follow here, contrasting active and passive constructions. In some examples, a Passive with one or either of the other Passive suffixes would be possible as well, without a change of meaning. In such cases, the example is given with the Passive that is most commonly used. In the second example below the agent is omitted.

**ᵛ-lótti**      **p-ɛlɪkkó.t**      **puɾupê**  
PERS-Lótti      C-release:COMPL      bird

Lótti has released the bird

**puɾupé**      **p-ɛlɪkk-ákɔ.t**  
bird                      C-release-PASS1:COMPL

the bird has been released

NB: instead of PASS1 (**ɛlɪkk-akɔ** ‘be released’), PASS2 (**ɛlɪkk-atta**) could also be used.

*Expression of the agent*

Though agents are commonly omitted, it is possible to express them. People as agents (i.e. pronouns, personal names and common nouns referring to people) are followed by **ɲɲɪm** ‘with, by’, which is the absolute form of the prepositional proclitic **ń-** ‘with, by, (away) from’ (see chapter 16.6 for the absolute prepositions):

**ပုၤတုၤပံၤ**    **ပ-ၤလိၤက-ၤအံၤ.တ**    **ၣ-လံၤတိၤ**    **ၣ်.ၣ်မ**  
 bird                    C-release-PASS1:COMPL    PERS-Lotti    with:ABS

the bird has been released by Lotti

**ပုၤတုၤပံၤ**    **ပ-ၤလိၤက-ၤအံၤ.ၣ-ၣ်**                    **ၣ်.ၣ်မ**  
 bird                    C-release-PASS1:COMPL-O3                    with:ABS

the bird has been released by him

Animals as agents are marked by **ၣ်**- ‘with, by, (away) from’:

**တုၣ်**            **တ-ၣ်က-ၣ်ဝဲၣ်.ၣ်**            **ပဲၤလၢ**  
 dog            C-kill:COMPL            cat

the dog has killed the cat

**ပဲၤလၢ**            **ပ-ၣ်က-ၣ်ဝဲၣ်.တ-ၣ်**            **ၣ်-တုၣ်**  
 cat                    C-kill-PASS2:COMPL            with-dog

the cat was killed by the dog

At least a few common nouns referring to people allow for both ways of expression of the agent argument, for example **ၣ်က** ‘child’:

**ၣ်က**    **ၣ-ၤအံၤ.ၣ်**            **ၣ-ၤတုၣ်**            **ၣ်မ**  
 child    C-be:PR            C-pull:INCOMPL            goat

the child is pulling the goat

**ၣ်မ**    **ၣ-ၤအံၤ.ၣ်**            **ၣ-ၤတုၣ်-ၣ်**            **ၣ်က**            **ၣ်.ၣ်မ / ၣ်-ၣ်က**  
 goat    C-be:PR            C-pull-PASS3:INCOMPL    child            with:ABS    with-child

the goat is being pulled by the child

NB: instead of Pass3 **ၣ်တုၣ်** ‘be pulled’, Pass1 **ၣ်တုၣ်** and Pass2 **ၣ်တုၣ်** or **ၣ်တုၣ်** are also possible.

Passives can express states; in such cases use is made of the Completive. An example follows here with the irregular Passive **ိတ** ‘get married’ (< **ၣ်** ‘obtain, marry’):

**ၣ်-ၣ်က-ိတ-ၣ်.ၣ်**  
 2-C-get\_married-PASS2:COMPL-Q

are you married?

The Completive of **ᶯkᶊᶊittakot** ‘be(come) narrow, hold arms against/around the body and legs together’ (< **ᶯkᶊᶊittot** ‘make narrow, squeeze’) is another example of a verb expressing a state. The example below can refer to a path (**kaᶊᶊor**) that is naturally “squeezed”, for example because it passes between rocks, but also to a path that has become narrow because people have been cultivating sorghum on it (second example below). An added phrase **nᶊl** or **ᶊl ᶊᶊm** (third example below) is understood as people standing on the path, causing the road to be narrow due to their presence.

**kaᶊᶊor**    **k-ᶯkᶊᶊitt-akᶊ.ᶊ.ᶊ**  
road            C-become\_narrow-PASS1:COMPL

the path is narrow

**kaᶊᶊor**    **k-ᶯkᶊᶊitt-akᶊ.ᶊ.ᶊ**            **m-mᶊl**  
road            C-become\_narrow-PASS1:COMPL    with-sorghum

the path is narrow because of the sorghum (it grows on the path)

**kaᶊᶊor**    **k-ᶯkᶊᶊitt-akᶊ.ᶊ.ᶊ**            **n-ᶊl**            / **ᶊl**            **ᶊᶊm**  
road            C-become\_narrow-PASS1:COMPL    with-people    people    with:ABS

the path is narrow because of the people (they are standing on the path, leaving only a narrow space to pass)

An interpretation as a state and as a regular passive construction can both be possible. The verb in the examples below is **ᶯmᶊtta** ‘be engraved’ (< **ᶯmᶊ** ‘engrave’).

**cakkᶊlᶊk**    **c-ᶯmᶊ-ttᶊ.ᶊ**  
calabash(k.o.)    C-engrave-PASS2:COMPL

the *cakkᶊlᶊk*-calabash is decorated

**cakkᶊlᶊk**    **c-ᶯmᶊ-ttᶊ.ᶊ**            **ᶯ-kakkᶊ**    **ᶊᶊm**  
calabash(k.o.)    C-engrave-PASS2:COMPL    PERS-Kakka    with:ABS

the *cakkᶊlᶊk*-calabash has been decorated by Kakka

A notion such as ‘be edible’ is expressed with a Passive verb. Edibility is conceptualized as ‘be eaten (by people)’:

**cantít**    **πιφι**    **ι-π-α.ρῶ-ττα**  
 snake(k.o.)    snake    RES-C-eat-PASS2:INCOMPL

the *cantit* is a snake that is eaten / the *cantit* is a snake that can be eaten /  
 the *cantit* is an edible snake

NB: instead of **αῤῥῶττα** ‘be eaten’, **αῤῥῶκκακῶ**, with PASS1, can also be used.

The same goes for the notion ‘be visible’. In the first sentence below **ιμμακῶ** ‘be seen’ is preferred, in the second **ιμματτα** ‘be seen’, though in both cases the other verb would be acceptable as well. There is a subtle semantic difference between the two verbs. The sentence with **ιμμακῶ** suggests a somewhat more active role of the sun than the sentence with **ιμματτα**.

**ειηκι**    **ε-ιμμ-ακῶ**    **η-ηιριμακ**  
 sun    C-see-PASS1:INCOMPL    with-early\_morning

the sun is visible in the early morning (the sun lets itself be seen / appears in the early morning)

**ειηκι**    **ε-ιμμ-αττα**    **αμμα**    **ε-ῶππῶ.τ**  
 sun    C-see-PASS2:INCOMPL    if    C-pass:COMPL

the sun is visible when it has come out (the sun can be seen when it has come out)

#### *Semantic roles of subjects of Passive verbs*

Subjects of a Passive verb often have a patient role, but not always. Examples with subjects with other semantic roles follow here. The examples show that Passives can be formed not only on the basis of transitive verbs but also on the basis of intransitive verbs, since oblique arguments with locative or instrumental roles can be subject of the Passive.

**εῖττατ** (also **εῤῥῖττατ**) ‘be given’ (< **εῤῥῖτ** ‘give’) allows for both the patient and the recipient to take the subject position.

**caṭṭak**      **c-é-ṭta.t**      **ᵛ-kakkâ**  
 calabash(k.o.)    C-give-PASS2:COMPL    PERS-Kakka

the bowl will be given to Kakka

**ᵛ-kakkâ**    **p-é-ṭta.t**      **caṭṭak**  
 PERS-Kakka    C-give-PASS2:COMPL    calabash(k.o.)

Kakka will be given the bowl

A beneficiary and a patient argument can both be the subject of a Passive + Benefactive verb. The verb in the examples is **ᵛnékittane** ‘be carried for’ (base verb **ᵛnékᵛ** ‘carry’). Note that the order of the derivational suffixes remains unchanged.

**ᵛ-kakkâ**      **p-ᵛnek-ítta-kanṭet**      **ᵛᵛṛi**  
 PERS-Kakka      C-carry-PASS2-BEN:PST      water

the water was carried for Kakka (she did not carry it herself)

**ᵛᵛṛi**      **ᵛ-ᵛnek-ítta-kanṭet**      **ᵛ-kakkâ**  
 water      C-carry-PASS2-BEN:PST      PERS-Kakka

the water was carried for Kakka (she did not carry it herself)

Prepositional phrases can be passivized. For example, the Passive + Benefactive verb **arəttakinṭet nán** ‘be added to sth. for sb.’ (base verb **arəttət nán** ‘add’) has a beneficiary argument and an oblique argument marked by **nᵛ** ‘on, at’. Both can be subject of the Passive + Benefactive verb. When not followed by its complement, **nᵛ** is realized as its absolute counterpart **nán** (second example below). The action is presumed to be carried out by someone, but the agent is left unexpressed:

**pól**      **p-arətt-ák-ínṭét**      **nᵛ-úrû**  
 person    C-add-PASS1-BEN:COMPL    on-asida

the man was given some more asida (for the man was added to the asida)

**ᵛᵛṛú**      **ᵛ-arətt-ák-ínṭét**      **pól**      **nán**  
 asida      C-add-PASS1-BEN:COMPL      person      on:ABS

the man was given some more asida (the asida was added to for the man)



The locative argument of a active Locative-applicative verb can be the subject of a passive construction:

**ul w-a.ik w-â.ηκo-t i-cuřé c-o-pira**  
 people C-be:PR C-rest-LOCAPP:INCOMPL in-bottom C-of-tree  
 the people are resting under the tree

**pira p-a.ik p-â.ηκ-ak-o-t tit n-ôl**  
 tree C-be:PR C-rest-PASS1-LOCAPP:INCOMPL in:ABS with-people  
 the tree is being rested under (lit.: in) by the people

A locative adjunct in a construction with an active verb can also be the subject of a corresponding passive construction. The verb **ɔcɔřɔ** does not take the Locative-applicative derivation when combined with a locative prepositional phrase, nor does it inherently require a locative constituent. In the first example below, ‘on the wall’ is thus an adjunct, it could also be left out. Nevertheless, ‘the wall’ can function as the subject of the Passive verb **ɔcɔřakɔ** (second example below); the PPC that is now separated from its complement takes on its absolute form **nán**. Instead of **ɔcɔřakɔ**, derivation with PASS2 (**ɔcɔřittɔ**) is also possible.

**ɔ-kokkú p-á.ík p-á.cɔřɔ nɔ-karrâŋ**  
 PERS-Kokku C-be:PR C-stand:INCOMPL on-wall  
 Kokku is standing on the wall

**karrâŋ k-a.ik k-a.cɔř-ak-o nán**  
 wall C-be:PR C-stand-PASS1:INCOMPL on:ABS  
 somebody is standing on the wall (lit.: the wall is being stood on)

An instrumental adjunct can also function as subject of a Passive verb. In a corresponding active clause, the instrument is often marked with **ń-** ‘with, by, (away) from’, but in some cases with another preposition. Incompletives of Passive verbs with an instrument as their subject are used for the expression of the function or use of that instrument, stating what is generally done with it. Because the instrument is dislocated in the passive clause, the PPC is

realized in its absolute form. The examples below contrast the active with the passive constructions.

**οι**    **w-a.ṭáttə**    **η-kurrónη**    **έη-k-ί**  
 people    C-fight:INCOMPL    with-stick    DEM-C-NEARSP  
 people fight with this stick

**kurrónη**    **έη-k-ί**    **k-a.ṭátt-akə**    **η.ηm**  
 stick    DEM-C-NEARSP    C-fight-PASS1:INCOMPL    with:ABS  
 this stick is for fighting (this stick is being fought with)

**οι**    **w-ίcat**    **na-aṛaηkal**    **έν-n-ί**    **tullúk**  
 people    C-lie\_down:INCOMPL    on-bed    DEM-C-NEARSP    just  
 people only lie down (sleep) on this bed (i.e. it is not for sitting on)

**aṛaηkal**    **έν-n-ί**    **w-ίca-kə.t**    **nan**    **tullúk**  
 bed    DEM-C-NEARSP    C-lie\_down-PASS1:INCOMPL    on:ABS    just  
 this bed is only for sleeping (this bed is slept on only)

Interestingly, when an instrument functions as the subject of a Passive that is derived from a transitive verb, **ή-** ‘with, by, (away) from’ marking the instrument in the active sentence can be attached to the patient argument of the verb in the passive sentence (third example below). Compare:

**οι**    **w-a.kéccə**    **ṭún**    **η-kəṛittanη**    **έη-k-ί**  
 people    C-cut.PLUR:INCOMPL    onion    with-knife    DEM-C-NEARSP  
 people cut onions with this knife

**kəṛittanη**    **έη-k-ί**    **k-á.kéccə-tta**    **ṭún**    **η.ηm**  
 knife    DEM-C-NEARSP    C-cut.PLUR-PASS2:INCOMPL    onion    with:ABS  
 this knife is for cutting onions (this knife is cut onion with)

**kəṛittanη**    **έη-k-ί**    **k-á.kéccə-tta**    **n-ṭún**  
 knife    DEM-C-NEARSP    C-cut.PLUR-PASS2:INCOMPL    with-onion  
 this knife is for cutting onions (lit.: this knife is cut with onion)

Attachment of the PPC to a different argument than the one that is its complement in the corresponding active sentence was only found

with **ń** ‘with, by, (away) from’. In the passive constructions below (second and fifth examples) the absolute prepositions **nán** (corresponding to **nɔ** ‘on, at’) and **ntít** (corresponding to **ntɪ ɪ** ‘from, out of’) must be used, respectively. Constructions with **nɔ** ‘on, at’ or **ntɪ ɪ** ‘from, out of’ attached to **ɲəɽɪ** ‘water’ are not possible.

<b>ɔl</b>	<b>w-ɨkkɔ</b>	<b>ɲəɽɪ</b>	<b>nɔ-cátták</b>	<b>éɲ-c-í</b>
people	C-drink:INCOMPL	water	on-calabash	DEM-C-NEARSP

people drink water from this *cáttak*-calabash

<b>cátták</b>	<b>ɲɛ-c-ɪ</b>	<b>c-ɨkk-akɔ</b>	<b>ɲəɽɪ</b>	<b>nán</b>
calabash(k.o.)	DEM-C-NEARSP	C-drink-PASS1:INCOMPL	water	on:ABS

this *cáttak*-calabash is for drinking water

<b>*cátták</b>	<b>ɲɛ-c-ɪ</b>	<b>c-ɨkk-akɔ</b>	<b>nɔ-əɽɪ</b>
calabash(k.o.)	DEM-C-NEARSP	C-drink-PASS1:INCOMPL	on-water

<b>ɔl</b>	<b>w-únɔ</b>	<b>ɲəɽɪ</b>	<b>n.tɪ</b>	<b>ɪ-kummók</b>	<b>éɲ-k-í</b>
people	C-pour:INCOMPL	water	from	in-pot	DEM-C-NEARSP

people pour water from this pot

<b>kummók</b>	<b>ɲɛ-k-ɪ</b>	<b>k-ún-akɔ</b>	<b>ɲəɽɪ</b>	<b>n.tít</b>
pot	DEM-C-NEARSP	C-pour-PASS1:INCOMPL	water	from:ABS

this pot is for pouring water

<b>*kummók</b>	<b>ɲɛ-k-ɪ</b>	<b>k-ún-akɔ</b>	<b>n.tɪ</b>	<b>ɪ-əɽɪ</b>
pot	DEM-C-NEARSP	C-pour-PASS1:INCOMPL	from	in-water

#### *Differences between the three Passives?*

As stated above, there are distributional differences between the Passive derivations, relating to the final or last vowel of the base verb. PASS3 has a very restricted distribution, limited to bimoraic verbs with L.HL tones (but not all such verbs can take PASS3).

#### *PASS2: historically related to pluractionality?*

The forms of PASS2 and PASS3 (**V**)tta and (**ɔ**)ra suggest that they may be related to each other: if **r** of PASS3 is underlying **t**, PASS2 can be

regarded as the geminated counterpart of PASS3. Another observation is that PASS2 typically occurs on verbs ending in *ε* or *et*. Such verbs are typically Pluractionals and Causatives. Pluractionals have inherent plural semantics, and Causatives are associated with a kind of action plurality as well: both causer and causee can perform an action (the causing action and the caused action).

Verbs to which PASS3 can be attached are, on the other hand, typically underived verbs (though they may contain the Locative-applicative suffix *t*). They do not involve action plurality. Thus, even though its phonological structure would fit the use of PASS3, the Pluractional verb *ᵛᵛwᵛ* ‘kill (PLUR)’, only takes PASS2: *ᵛᵛwᵛtta* ‘be killed (PLUR)’.

This suggests that PASS2 (V)*tta* may have developed as gemination of PASS3 (*ᵛ*)*ra* and may historically have been the suffix used on verbs with inherently plural semantics: Pluractionals and Causatives. The use of PASS2 has then later spread to verbs lacking plural semantics: synchronically, in all cases in which PASS3 is used PASS2 is possible as well, and several verbs that preferably go with PASS1 (and which lack plural semantics) also allow for PASS2.

It is unclear why the distribution of PASS3 is so restricted. Possibly PASS1, which arguably developed from a middle marker (see below), replaced PASS3. Notably, the verbs which take PASS3 also allow for PASS1—and in such cases there are no semantic differences— but not vice versa.

*Development of PASS1 (a)kᵛ from a middle marker*

A closer look at verbs with PASS1 (*a*)*kᵛ* strongly suggests that, historically, the function of PASS1 was different from the others. The semantics of several derivations ending in *kᵛ*, but also of verbs ending in *kᵛ* that lack a base verb, suggest that PASS1 developed from a middle marker *kᵛ*. This will be shown with several examples. Next to Passives with PASS1 that just function as passives, we distinguish:

- Passives with PASS1 functioning as regular passives, but also having a middle-type meaning;
- Verbs ending in **kə** and existing alongside a base verb as (formally) regular PASS1 derivations, but having middle-type meaning only;
- Verbs ending in (V)**kə** and existing alongside a base verb, but which are not PASS1 derivations and have middle-type meaning;
- Verbs ending in **kə** that lack a base verb and only have middle-type meaning.

In several cases a Passive with PASS2 exists alongside the verb with (a)**kə**. Both can be regular passives, but if there is a difference between them, whether clear or subtle, it is the verb with (a)**kə** that deviates towards middle semantics. One such case, **immakə** versus **immatta** (both derived from **imma** ‘see’) was already mentioned.

Examples of Passives with PASS1 that function as regular passives but also have a middle-type meaning follow here (second column). The base verb is presented in the first column. In case a Passive with PASS2 or PASS3 is attested as well, it is mentioned in the third column. The latter ones are always regular passives. Note that the base verb and the derived verb may differ as to presence or absence of a final **t**.

Table 94 Derivations with PASS1 also having middle semantics

<i>base verb</i>	<i>Passive with PASS1</i>	<i>Passives with PASS2 or PASS3</i>
<b>əllâ</b> ‘wipe (away)’	<b>əllákə</b> ‘be wiped away’, ‘scratch oneself’	<b>əllátta, əllára</b> ‘be wiped away’
<b>əkê</b> ‘shave (tr.)’	<b>əkékə</b> ‘be shaved’, ‘shave oneself’	<b>əkétta</b> ‘be shaved’
<b>əkúccet</b> ‘prepare (tr.)’	<b>əkúccəkət</b> ‘be prepared, prepare oneself’	<b>əkúccettat</b> ‘be prepared’
<b>əkəřittət</b> ‘make narrow, squeeze’	<b>əkəřittakət</b> ‘be made narrow, hold arms against/around the body and legs together’	
<b>əpəřəttət tít</b> ‘turn (tr.)’	‘be turned’, ‘turn oneself’ <b>əpəřəttakət tít</b> ‘be surprised’	

<b>ɔkkárəttɔ</b> 'return (tr.)'	<b>ɔkkárəttakɔ</b> 'be returned', 'return (intr.)'	
<b>ɔkkápərəttɔ</b> 'return (tr.)'	<b>ɔkkápərəttakɔ</b> 'be returned', 'return (intr.)'	
<b>arəntɔt</b> 'collect'	<b>arəntakɔt</b> 'be collected', 'gather, come together'	
<b>illɔ</b> 'divide in two, split (tr.)'	<b>illakɔ</b> 'be divided in two', 'split (intr.)'	

Cf. the following examples showing the Passives of 'shave' **ɔkéko** (PASS1) and **ɔkétta** (PASS2). The example with PASS2 is unambiguous: someone else is doing the shaving. The second example is ambiguous as to who performs the action: it can be the speaker himself, but also somebody else.

**m-p-a.ik**            **p-a.ké-tta**  
1-C-be:PR            C-shave-PASS2:INCOMPL

I am being shaved (by somebody else)

**m-p-a.ik**            **p-a.ké-kɔ**  
1-C-be:PR            C-shave-PASS1:INCOMPL

I am shaving (i.e. I am shaving myself) / I am being shaved (by somebody else)

In order to clearly express that the shaving is done by the person himself the active verb is used in a reflexive construction:

**m-p-a.ik**    **p-a.ké**            **ka**            **k-m**  
1-C-be:PR    C-shave:INCOMPL    body            C-POSS1

I am shaving myself

Other interesting cases are found with the Passive derivations of **ɔmê** 'decorate, scarify'. **ɔmê** combines both with PASS1 and with PASS2. Both function as regular passives, but their meanings are different. **ɔmêtta** 'be decorated', with PASS2, is used for objects (for example a calabash), PASS1 **ɔmékɔ** 'be scarified' is used for the human body being decorated through scarification.

Examples of verbs derived with PASS1 that only have a middle-type meaning follow here (second column). Derivations with PASS2 are added in the third column for comparison.

Table 95 Derivations with PASS1 only having middle semantics

<i>base verb</i>	<i>Passive with PASS1</i>	<i>Passive with PASS2</i>
<b>ερετ</b> ‘talk about’	<b>ερεκωτ</b> ‘grumble in oneself’	<b>ερεττατ</b> ‘be talked about’
<b>ωμετ</b> ‘rub at’	<b>ωμεκωτ</b> ‘wash oneself’	<b>ωμεττατ</b> ‘be rubbed’
<b>ωττε</b> ‘stretch, make straight’	<b>ωττεκωτ</b> ‘stretch oneself out’	<b>ωττεττα</b> ‘be stretched out, be made straight’

Table 96 contains verbs with middle semantics that have a suffix (V)κω rather than PASS1 (a)κω. In the first two cases, the final or last vowel ω has not changed into a but remained ω or changed into ι, in the third case, ε has changed into ι. Regular passives are presented in the third column. In the first two cases, a regular derivation with PASS1 (a)κω exists next to the middle verbs with (V)κω.

Table 96 Verbs derived with (V)κω having middle semantics

<i>base verb</i>	<i>derived verb with middle meaning</i>	<i>regular Passive</i>
<b>ωρεω</b> ‘apply on sb.’	<b>ωρεκωτ</b> ‘apply on oneself’	<b>ωρεκω, ωρεττα / ωρεττα, ωρεωρα</b> ‘be applied on sb.’
<b>ωρεω</b> ‘receive at’	<b>ωρεκωτ</b> ‘hear, listen’ <b>ωρεκωτ</b> ‘catch’ (receive at body)	<b>ωρεκωτ, ωρεττατ / ωρεττατ, ωρεωρατ</b> ‘be received at’
<b>αρεε</b> ‘hang (tr.)’	<b>αρεκωτ</b> ‘stay longtime, hang out (intr.)’	<b>αρεττα</b> ‘be hung’

Evidence for a historical middle marker κω also comes from verbs that lack a base verb. The verbs below have meanings within the semantic range of middle marking as identified by Kemmer (1993, p. 267-270), i.e. in domains involving the proper body, such as grooming, change in body posture, position of the body, translational motion (including negative motion), cognition and perception.

<b>ilakkə</b>	‘wash one’s hands or feet’
<b>əpákkə</b>	‘wash one’s body, take shower’
<b>əpíríkə</b>	‘blow one’s nose’
<b>akə</b>	‘wear’
<b>urəkə</b>	‘get up, stand up, start’
<b>apəɾilakə</b>	‘hang (intr., of human or animal, from the hands)’
<b>accakə</b>	‘get soaked’
<b>appəɾíkə</b>	‘get loose’
<b>aɾəkə</b>	‘float, swim’
<b>əkəkə</b>	‘pass, arrive’
<b>əɾuɟəkə</b>	‘set (of the sun)’
<b>ikkə cik</b>	‘sit, stay’
<b>ɾɾikittakə</b>	‘hurry (intr.)’
<b>aɾəntakə</b>	‘dream’
<b>əkwaríkət</b>	‘recall’
<b>əkəkənəkə</b>	‘smell’ (intr.)
<b>əkəkənəkət</b>	‘smell’ (tr.)
<b>accakə</b>	‘get soaked’
<b>appəɾíkə</b>	‘get loose’

It is therefore likely that the current productive Passive suffix **(a)kə** has developed from a morpheme **kə** which functioned as a middle marker: a marker of actions initiated by a subject and involving that subject’s proper body.

*Derivations with -tta with deviating semantics*

The far majority of verbs ending in **tta** are regular passives. There are however a few such verbs with different semantics, notably middle-type semantics. Such verbs are far fewer than verbs with middle semantics ending in **(a)kə** and development of PASS2 from a middle marker does not seem likely. Two verbs of this type, ‘tear’ and ‘break’, are presented in the table below. Note that the verbs with **tta** and middle semantics are not cases of regular attachment of the PASS2 suffix. It is therefore unclear if these cases should be regarded as cases of PASS2 or perhaps as something different.



Active (transitive) verbs of ‘break’ and ‘tear’ are given in the first column, regular Passives in the second, verbs ending in **-tta** in the third. The fourth column presents some more unexpected forms: one verb with **tta** and PASS1 (**ᄃᄃᄃᄃᄃᄃ**), and a verb with PASS3 + PASS1 (**ᄃᄃᄃᄃᄃᄃ**). Both function as passives. **ᄃᄃᄃᄃᄃᄃ** has the same meaning as the regular Passive in the second column, the meaning of **ᄃᄃᄃᄃᄃᄃ** is slightly different from its regular Passive counterpart.

Table 97 Verbs of ‘break’ and ‘tear’

<i>active transitive verb</i>	<i>regular Passive derivation</i>	<i>verb with middle semantics</i>	<i>verb with passive semantics</i>
<b>ᄃᄃᄃᄃ</b> ‘break in two’ (tr., object is sth. hard)	<b>ᄃᄃᄃᄃᄃᄃ</b> ‘be broken in two’ (subject is sth. hard)	<b>ᄃᄃᄃᄃᄃᄃ</b> ‘break in two’ (intr., subject is sth. hard)	<b>ᄃᄃᄃᄃᄃᄃ</b> ‘be cancelled, be broken off’
<b>ᄃᄃᄃᄃ</b> ‘break in two’ (tr., object is sth. bendable)	<b>ᄃᄃᄃᄃᄃᄃ</b> ‘be broken in two’ (subj. is sth. bendable)	<b>ᄃᄃᄃᄃᄃᄃ</b> ‘break (loose)’ (intr., subj. is sth. bendable)	
<b>ᄃᄃᄃᄃ</b> ‘tear off from a tree’ (the object is sth. light: a leaf, twig or small branch)	<b>ᄃᄃᄃᄃᄃᄃ, ᄃᄃᄃᄃᄃᄃ</b> ‘be torn off from a tree’ (subject is sth. light: a leaf, twig or small branch)	<b>ᄃᄃᄃᄃᄃᄃ/ ᄃᄃᄃᄃᄃᄃ</b> ‘break off, come down’ (break down from point of attachment and fall down)	<b>ᄃᄃᄃᄃᄃᄃ</b> ‘be torn from a tree’ (subject is sth. light: a leaf or a twig)
<b>ᄃᄃᄃᄃᄃᄃ</b> ‘tear from a tree’ (object is part for which force is needed: bark, small branch)	<b>ᄃᄃᄃᄃᄃᄃᄃ</b> ‘be torn from a tree’ (subject is part for which force is needed: bark, small branch)		

Some sentential examples:

**atti**      **kwóʀen**      **k-ina**      **ɔcɔ́t-akɔ**  
 I hope\_that    piece\_of\_firewood    C-know:INCOMPL    break-PASS1:INCOMPL

I hope this piece of firewood can be broken (the speaker wants to break it, but it looks like it will be difficult to do this)

**tɔʀək**      **t-ɔmɔ.ttâ.t**  
 rope            C-break:COMPL

the rope has broken

The ‘break’ verbs ending in **tta** express a process from inside. The oblique in the example below is not a wilful agent. **Lɔtti** is only instrumental to the breaking: he has unintentionally caused it.

**tɔʀək**      **t-ɔmɔ.ttâ.t**      **ɔ-lɔttí**      **ɲ.ɲm**  
 rope            C-break:COMPL      PERS-Lɔtti      with:ABS

the rope has broken through **Lɔtti**’s weight (The sentence evokes the situation that **Lɔtti** tried to hang himself, but the rope broke. The breaking of the rope is not due to an action of **Lɔtti** that was intended to break the rope).

An animal breaking loose from a rope can function as subject:

**imjɪt**      **w-ɔmɔ.ttâ.t**  
 goat            C-break:COMPL

the goat has broken loose

Two more series of related verbs follow here. The first column has the base verb, the second the regular passive verb. The third and fourth columns contain verbs with **kɔ** and with **a** (or **tta**?) and **ta** that are clearly related to the base verb, but not regularly derived from it. These verbs have middle-type meanings. The verb in the fifth column, with **PASS1** attached after **ta**, functions as a regular passive.

Some of the earlier mentioned pairs of base verbs and Passives that have an irregular form, namely **ɔnɔ** ‘build’/ **ɔnta** ‘be built’, **ərrɔ** ‘push, shoot’ / **ərra** ‘be pushed, be shot’, and **ɔkátte** ‘trade’ / **ɔkátta** ‘be traded’ are formally comparable with **ɔnɔ** / **ɔnta** and **ɔrəttɔ** /

**urətta** respectively. Semantically, however, they are different. As can be seen in table 98, **urətta** and **unta** have middle-type semantics.

Table 98 Derivations of ‘wake up (tr.)’ and ‘pour’

<i>active transitive verb</i>	<i>regular Passive</i>	<i>verb with kə and middle semantics</i>	<i>verbs with a (or tta?) and ta and middle semantics</i>	<i>verb with passive function</i>
<b>urəttə</b> ‘wake up (tr.)’	<b>urəttakə</b> ‘be woken up’	<b>urəkə</b> ‘get up, start (intr.)’	<b>urətta</b> ‘wake up (intr.)’	
<b>unə</b> ‘pour’			<b>unta</b> ‘spill over, fall down, collapse’	<b>untakə</b> ‘be poured’

*Combinations of Passive suffixes*

One verb that appears to have two passive suffixes was already mentioned above: **əŋárakə** ‘be torn from a tree’ (PASS 3 + PASS1). Two further cases of PASS3 + PASS1 are presented below. PASS1 always comes last. The first functions as a regular passive, the second has middle semantics.

Table 99 Combination of PASS3 and PASS1

<i>base verb</i>	<i>with PASS3</i>	<i>with PASS3 and PASS1</i>
<b>əllâ</b> ‘wipe (away)’	<b>əllára</b> ‘be wiped (away), be swept’	<b>əllarakə</b> ‘be wiped (away), be swept’
<b>ət̪ə</b> ‘pull’	<b>ət̪úra</b> ‘be pulled’	<b>ət̪úrakə</b> ‘stretch oneself (out)’

Other combinations have not been attested, unless the above mentioned verbs **əcəttakə** ‘be cancelled, be broken off’ and **untakə** ‘be poured’, should be regarded as cases of PASS2 + PASS1. In any case, these forms do not involve regular PASS2-derivation.

## 14.5. The Reciprocals

Lumun has two Reciprocal suffixes: **(a)rɔ** (REC1) and **ttɔ** (REC2). I refer to verbs that contain one of these suffixes and that occur next to a non-derived base verb as Reciprocal verbs or Reciprocals. Reciprocals can be derived from transitive verbs, but also from certain verbs which realize the other participant in a prepositional phrase.

*Forms, attachment and distribution*

The suffixes have different distributions. REC1 **(a)rɔ** replaces a final or last vowel **ɔ** or comes after a final or last vowel **a**, REC2 **ttɔ** is typically attached to stems with a final or last **ɛ**. Benefactive verbs, which end in **(ɪ)ne** or **(ɪ)nɛt**, form Reciprocals with REC1 or REC2 preceding the benefactive suffix. A stem-final **t** (the locative-applicative suffix) always remains in final position.

Attachment of REC1 **(a)rɔ** to **ɔ(t)**- and **a(t)**-final stems gives the following results:

**ɔ(t) + arɔ > arɔ(t)**  
**a(t) + rɔ > arɔ(t)**

Some examples:

<b>akkarɔ</b>	‘call’	<b>akkar-arɔ</b>	‘call e.o.’
<b>ɔmícɔ</b>	‘greet’	<b>ɔmíc-arɔ</b>	‘greet e.o.’
<b>ɔɲwɔ̂</b>	‘kill (PLUR)’	<b>ɔɲw-árɔ</b>	‘kill e.o.’
<b>ɔccɪkɔt</b>	‘hear’	<b>ɔccɪk-arɔ-t</b>	‘hear e.o.’
<b>angwɔt</b>	‘guard’	<b>aɲw-arɔ-t</b>	‘guard e.o.’
<b>ittarɔt</b>	‘help’	<b>ittar-arɔ-t</b>	‘help e.o.’
<b>mma</b>	‘see’	<b>mma-rɔ</b>	‘see e.o.’
<b>ma</b>	‘know’	<b>ma-rɔ</b>	‘get to know e.o.’
<b>ɔmmâ</b>	‘not know’	<b>ɔmmá-rɔ</b>	‘not know e.o.’
<b>ɔkwáricat</b>	‘search’	<b>ɔkwáricca-rɔ-t</b>	‘search e.o.’

In the case of **ᵛᵛəkᵛ** ‘eat’, the root-final consonant **k** is geminated in the Reciprocal verb:

**ᵛᵛəkᵛ nᵛ-pᵛl** ‘eat from a person’ (‘eat from a person’s plate or portion’)  
**ᵛᵛəkᵛk-arᵛ nán** ‘eat from e.o.’ (‘eat from e.o.’s plates or portions’)

Attachment of REC2 **ttᵛ** to **ε**- and **εt**-final stems:

**ε(t) + ttᵛ > εttᵛ(t)**

Some examples:

<b>acce</b>	‘lick’	<b>acce-ttᵛ</b>	‘lick e.o.’
<b>ᵛᵛəkᵛie</b>	‘feed’	<b>ᵛᵛəkᵛie-ttᵛ</b>	‘feed e.o.’
<b>ᵛᵛwíε</b>	‘make sb. kill (PLUR)’	<b>ᵛᵛwíε-ttᵛ</b>	‘make e.o. kill’
<b>ikkεt</b>	‘give (PLUR)’	<b>ikkε-ttᵛ-t</b>	‘give e.o.’
<b>ᵛᵛēt</b>	‘save’	<b>ᵛᵛé-ttᵛ-t</b>	‘save e.o.’

If a Benefactive suffix is present, the Reciprocal suffix is attached before this suffix. Benefactive stems that are based on **ᵛ** or **a**-final verbs typically form Reciprocals with REC1 (**a**)**rᵛ**. The suffix sequences (**a**)**rᵛ** + **mε**, or (**a**)**rᵛ** + **mᵛtεt**, are respectively realized as (**a**)**rᵛnε** and (**a**)**rᵛnᵛtεt**. Some examples:

<b>aᵛᵛ</b>	‘open’	<b>aᵛᵛ-mε</b>	‘open for’	<b>aᵛᵛ-ar-ᵛnε</b>	‘open for e.o.’
<b>aᵛa</b>	‘pray’	<b>aᵛa-nε</b>	‘pray for’	<b>aᵛa-r-ᵛnε</b>	‘pray for e.o.’
<b>ᵛᵛcᵛkᵛt</b>	‘hear’	<b>ᵛᵛcᵛkᵛ-mᵛtεt</b>	‘listen to’	<b>ᵛᵛcᵛkᵛ-ar-ᵛnᵛtεt</b>	‘listen to e.o.’
<b>ᵛᵛkkᵛt</b>	‘do, make’	<b>ᵛᵛkkᵛ-ᵛnᵛtεt</b>	‘do for, make for’	<b>ᵛᵛkkᵛ-ár-ᵛnᵛtεt</b>	‘do for e.o., make for e.o.’

In case of a Benefactive stems that is based on an **ε**-final verb, the Reciprocal suffix is always REC2. An example:

<b>εε</b>	‘speak’	<b>εε-nε</b>	‘talk to’	<b>εε-tt-mε</b>	‘talk to e.o.’
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*Reduplicated Reciprocal suffixes*

Several (perhaps all) Reciprocals allow for a reduplicated reciprocal suffix. REC1 (a)rɔ can also be (a)rarɔ, REC2 ttɔ can also be ttettɔ, reduplicating the vowel *ɛ* of the stem that precedes the double suffix.

Some examples:

akkar-arɔ	‘call e.o.’	akkar-ar-arɔ	‘call e.o.’
ɔmícc-arɔ	‘greet e.o.’	ɔmícc-ar-arɔ	‘greet e.o.’
ɔŋw-árɔ	‘kill e.o.’	ɔŋw-ár-arɔ	‘kill e.o.’
ɔccík-arɔ-t	‘hear e.o.’	ɔccík-ar-arɔ-t	‘hear e.o.’
ittar-arɔ-t	‘help e.o.’	ittar-ar-arɔ-t	‘help e.o.’
imma-rɔ	‘see e.o.’	imma-r-arɔ	‘see e.o.’
ɔmmá-rɔ	‘not know e.o.’	ɔmmá-r-arɔ	‘not know e.o.’
ɔkwáricca-rɔ-t	‘search e.o.’	ɔkwáricca-r-arɔ-t	‘search e.o.’
accɛ-ttɔ	‘lick e.o.’	accɛ-tt-ettɔ	‘lick e.o.’
ɔʔákɪɛ-ttɔ	‘feed e.o.’	ɔʔákɪɛ-tt-ettɔ	‘feed e.o.’
íkke-ttɔ-t	‘give e.o.’	íkke-tt-ettɔ-t	‘give e.o.’

*Reciprocals with a double suffix tt-arɔ*

There are also Reciprocals with a sequence of REC2 and REC1, realized as tt-arɔ. Some examples follow here. Note that tt-arɔ is not only attached after a vowel *ɛ*, but also after *a* (fourth example below). The arɔ-part of the suffix can again be reduplicated:

ɔmé-tt-arɔ-t ‘tell e.o.’, ɔmé-tt-ar-arɔ-t ‘tell e.o.’  
 < ɔmêt ‘tell sb.’  
 also: ɔmé-ttɔ-t, ɔmé-tt-ettɔ-t ‘tell e.o.’

ɔtté-tt-arɔ nán ‘leave e.o.’, ɔtté-tt-ar-arɔ nán ‘leave e.o.’  
 < ɔttɛ nɔ-pól ‘leave a person’  
 also: ɔtté-ttɔ nán ‘leave e.o.’, ɔtté-tt-ettɔ nán ‘leave e.o.’

**ere-tt-ar-əne** ‘say to e.o.’, **ere-tt-ar-ar-əne** ‘say to e.o.’

< **ere-ne** ‘say to sb.’ < **ere** ‘speak’

also: **ere-tt-me**, **ere-tt-ett-me** ‘say to e.o.’

**ɔʔia-tt-ar-əne cik** ‘fear e.o.’, **ɔʔia-tt-ar-ar-əne cik** ‘fear e.o.’

< **ɔʔia-ne cik** ‘fear sb.’ < **ɔʔia cik** ‘become afraid’

also: **ɔʔia-r-əne cik**, **ɔʔia-r-ar-əne cik** ‘fear e.o.’

The following irregular derivational verb also seems to contain both REC2 and REC1. The combined suffix now comes directly after the verb root and a vowel **u** occurs before the suffix. Note that the verb root has undergone a vowel change (the base verb is **ɔllɔ** ‘run’)

**ull-utt-ar-əne** ‘run against e.o. (in a race)’, **ull-utt-ar-ar-əne** ‘run against e.o. (in a race)’

< **ull-me** ‘run because’ < **ɔllɔ** ‘run’

NB: the forms **\*ɔll-ár-əne**, **\*ɔll-ár-ar-əne** ‘run because of e.o. (from fear)’ were rejected, after some doubt. ‘Run because of/from e.o.’ is expressed by the verb **ɔpállɛ-tt-ar-əne** (< **ɔpállɛne** ‘fear sb., run from sb. (out of fear)’ < **ɔpállɛ** ‘fear, run out of fear’)

I analyse the suffix **(u)tt** in the sequence **(u)tt-ar** as REC2 **ttɔ**, but, judging from the form alone, it could also be the PASS2 **(V)tta**. It is, however, unlikely that Reciprocals with **(u)tt-ar** are Reciprocals based on Passives. A Passive derivation reduces the valency of a verb. Since the Reciprocal derivation is also a valency reducing operation and must be based on verbs that can have two arguments referring to the same kind of animate entity, it is unlikely that Reciprocals are based on Passives. Doubling of the same reciprocal suffix, on the other hand, is generally possible. Such doubling of the reciprocal suffix does not mean that the derivation takes place twice (the valency of the verb is not reduced twice), but rather seems with processes of (double) Pluractional formation. A sequence of REC2 + REC1 is therefore the more likely analysis of the sequence **(u)tt-ar**.

*Argument structure of verbs serving as a base for Reciprocals*

The (agent) participants in a reciprocal event are participants that act upon each other. Therefore, they combine the semantic role of agent with another semantic role, for example patient, recipient or beneficiary. Lumun Reciprocal verbs can be derived from transitive verbs, but also from verbs that mark the relevant non-subject argument with a preposition.

Verbs may need a Benefactive or a Locative-applicative derivation in order to accommodate for a person as the object. For example, the verb **ɔkkɔt** ‘do, make’ is a transitive verb but does not easily take a person as object and cannot serve as the direct basis for a Reciprocal derivation. The Benefactive **ɔkkintɛt** ‘do for’ however can serve as a basis for the Reciprocal **ɔkkarɛntɛt** ‘do for e.o.’:

<b>n-ɔkk-ár-ɛntɛt</b>	<b>lɔn</b>	<b>í-l-ɔpərɔt</b>
2-do-REC1-BEN:DEPINCOMPL	words	RES-C-good

do good things for each other!

Another example is **akɔ** ‘wear’. Its Benefactive derivation **akine** ‘wear for, wear instead of sb.’ serves as a basis for the Reciprocal stem **akarəne**:

<b>ɔ-kín</b>	<b>t-á.ík</b>	<b>t-ák-ar-əne</b>	<b>ərét</b>
PERS-3A	C-be:PR	C-wear-REC1-BEN:INCOMPL	cloths

they are wearing each other’s clothes (lit.: they are wearing the clothes instead of each other)

The object of the verb **ipittɔ** ‘ask (about)’ refers to what is asked or what is asked about. A Reciprocal can be formed from it, denoting ‘greet e.o.’ (lit.: ask about each other). The verb **ipittɔt** ‘ask sb.’, with Locative-applicative **t**, has the addressee as object. The Reciprocal verb ‘ask e.o.’ is based on this verb.

<b>ipittɔ</b>	‘ask (about)’	<b>ipittarɔ</b>	‘greet e.o.’
<b>ipittɔt</b>	‘ask sb.’	<b>ipittarɔt</b>	‘ask e.o.’



As mentioned above, Lumun Reciprocals can also be derived from certain verbs that co-occur with a prepositional phrase. This prepositional phrase realizes the other participant needed for the Reciprocal. Upon Reciprocal derivation, the PPC remains *in situ* taking on in its absolute form. The following pairs contrast the base verb + PPC (first example) with the Reciprocal verb + absolute preposition (second example). In the second example, however, it was also considered possible to leave *tít* out.

**a-cumpóraŋ**      **ścint.at**      **ɪ-papê**  
 CONJ-monkey(sp.)      wrestle:DEPPRFV      in-fish  
 and the *cumpóraŋ*-monkey wrestled with the fish

**a-kín**      **ścint-ar.at**      **tít**  
 CONJ-3A      wrestle-REC1:DEPPRFV      in:ABS  
 and they wrestled with each other

**pul**      **em-p-əɹé**      **p-aɹɔ.t**      **m-parɪ**      **p-âŋ**  
 person      DEM-C-DIST      C-spend\_night:COMPL      with-wife      C-POSS2  
 that man has slept with your wife

**ɔ-kín**      **t-aɹ-arɔ.t**      **ŋ.ŋm**  
 PERS-3A      C-spend\_night-REC1:COMPL      with:ABS  
 they have slept with each other

**ukul**      **w-a.ɪk**      **w-a.llɔ-t**      **t-a-kukkô**  
 child      C-be:PR      C-run-LOCAPP:INCOMPL      up\_on-PERS-Kokku  
 the child is running to Kokku (facing him)

**ɔ-kín**      **t-á.ík**      **t-á.ll-áɹɔ-t**      **tán**  
 PERS-3A      C-be:PR      C-run-REC1-LOCAPP:INCOMPL      up\_on:ABS  
 they are running to each other

#### *Reciprocals based on Pluractional stems*

Several verbs have different stems for reference to one (simple) event and for reference to an event that is composed of multiple sub-events. In some cases, the Reciprocal verb must be based on the Pluractional stem of the verb. Some examples follow here:

**၁၇၁** ‘kill (PLUR)’  
**၁၇၁-ာ်** / **၁၇၁-ာ်-ာ်-၁** ‘kill e.o.’

**၁၇၂** ‘push (PLUR)’  
**၁၇၂-တ** / **၁၇၂-တ-တ** ‘push e.o.’

**၁၇၃** ‘find (PLUR)’  
**၁၇၃-တ** ‘find e.o., meet’

**၁၇၄** ‘give (PLUR)’  
**၁၇၄-တ** / **၁၇၄-တ-တ** ‘give e.o.’

**၁၇၅** ‘beat (PLUR)’  
**၁၇၅-တ** ‘beat e.o.’

There are also cases in which the Reciprocal derivation can be based on both the non-Pluractional and the Pluractional verb. An example follows here. The Reciprocals have different meanings:

**၁၇၆** ‘tie’  
**၁၇၆-ာ်** / **၁၇၆-ာ်-ာ်-၁** ‘hug e.o.’

**၁၇၇** ‘tie (PLUR: several objects or one object tied with several windings)’  
**၁၇၇-ာ်** / **၁၇၇-ာ်-ာ်-ာ်** ‘tie e.o.’

*Two reciprocal suffixes: REC1 and REC2*

The forms of the reciprocal suffixes (**ာ်**) and **တ** are reminiscent of the forms of the PASS3 (**ာ်**) and the PASS2 (**တ**): in both cases one can be regarded as a geminated version of the other (with **r** as the intervocalic allophone of **t**). The main difference between the reciprocal suffixes and the two Passives is the final vowel. Moreover, REC2 and PASS2 have a comparable distribution: both are typically used after a final or last vowel **ε**. It is likely then, that historically REC2 is a gemination of REC1, in the same way as PASS2 may well be a gemination of PASS3 (see 14.4), and that the geminated suffix reflects “agreement” with the inherently plural semantics of

Pluractionals and Causatives base verbs: verbs that typically have a final or last vowel *e*.

*Semantic differences*

There seem to be no semantic differences between REC1 and REC2, just like no apparent semantic differences were found between PASS2 and PASS3.

There is most probably some semantic difference between Reciprocals with a single and Reciprocals with a reduplicated reciprocal suffix. Where the choice of REC1 or REC2, seems related to plural semantics of the base verb (at least historically), the use of a single or a reduplicated suffix relates to the participants of the reciprocal event itself. Verbs with a single Reciprocal suffix can cover the whole range of events with two participants, one group of multiple participants, and multiple groups of two or more participants acting upon each other. Verbs with a reduplicated Reciprocal, on the other hand, typically refer to reciprocal events with participants in more than one group. According to my consultant (JS), double Reciprocals cannot be used in case of just two participants. This points towards the doubling of the reciprocal suffix as a process of Pluractional formation.

The following examples contrast a Reciprocal with a single suffix and one with a reduplicated suffix.

<b>luk</b>	<b>l-a.ik</b>	<b>l-ácce-ttə</b>
dogs	c-be:PR	C-lick-REC2:INCOMPL

the dogs are licking each other (the participants can be two dogs, or a group of for example a mother and some puppies, or separate groups of dogs)

<b>luk</b>	<b>l-a.ik</b>	<b>l-ácce-tt-ettə</b>
dogs	c-be:PR	C-lick-REC2-REC2:INCOMPL

the dogs are licking each other (the participants are imagined as separate groups of dogs)

In addition, the reduplicated suffix possibly has an expressive quality, drawing special attention to the plurality of the event. However, since attestations in texts are very rare, the actual use of Reciprocals with a reduplicated suffix is not entirely clear.

It is unclear whether and to what extent the combination of REC2 and REC1 (**ttarə**) expresses different semantics from the single and the reduplicated suffixes.

#### *Use of Reciprocals as anti-passives*

The reduced valency of the verb, as compared to its base verb, does not only give an ‘each other’-reading, but also a non-reciprocal reading with a human object that is not (nominally or pronominally) referred to, i.e. an antipassive.

When the Reciprocal functions as an anti-passive, the subject can refer to a singular referent. Here are some examples of Reciprocals with REC1 with an anti-passive reading. In the examples, there is actually an understood object, but the Reciprocal verb does not allow for its expression. The antipassive is thus of the implicit argument type: the object is entirely removed from the syntactic structure (Kulikov 2011, p. 380).

<b>pul</b>	<b>p-ə-nəppət</b>	<b>p-a.ɪk</b>	<b>p-árək-əmák-arə.t</b>
person	C-of-Nəppət	C-be:PR	C-as_always:INCOMPL-follow-REC1:DEPINCOMPL

**n-tə-cəkên**

with-at-lower\_back

the person of Nəppət is surely following (her) from behind (lit.: following each other from behind) (fr. written story)

<b>tue</b>	<b>t-əká.t</b>	<b>t-ónó</b>	<b>ɲərɪ</b>	<b>ɲ-əppət</b>
river	C-be:COMPL	C-have	water	C-many

**ɪ-a.nék-arə**

RES-(C-)take-REC1:INCOMPL

**tíat-tiak**

very-REDUP

there was a river that had a lot of water and that took many people’s lives (lit.: that took each other very).

The following example, about the rite of passage of **ṭapərettǎ** ‘beating people while they run’, contains a Passive and a Reciprocal with REC2 that is used as an antipassive. It is certain that the second verb has an antipassive interpretation, because **ṭapərettǎ** involves no reciprocity: one group beats, the other group (those being initiated) get beaten.

**ana**    **ól**            **w-á.éś**            **í-á.kkwé-tta**  
and    people        C-go:INCOMPL        RES-(C-)hit.PLUR-PASS2:INCOMPL

**ana**    **ɪ-a.kkwé-ttə**  
and    RES-(C-)hit.PLUR-REC2:INCOMPL

and people who will be beaten, and who will do the beating will go

Some further examples of Reciprocals used as anti-passives will be given in the section ‘Combinations of derivational suffixes’.

#### *Naturally reciprocal events*

Some verbs with naturally reciprocal semantics are listed below. They allow for the formation of a Reciprocal with REC1 as well as with a reduplicated REC1.

**ɔṭáttə** (tít) ‘fight’    **ɔṭáttarə tít, ɔṭáttararə tít** ‘fight with e.o.’  
**ɔcínə** (tít) ‘wrestle’    **ɔcínarə tít, ɔcínararə tít** ‘wrestle with e.o.’  
**ɔkétə** (tít) ‘run into’    **ɔkéttarə (tít), ɔkéttararə (tít)** ‘run into e.o.’  
**ɔcúrət** (tít) ‘meet’    **ɔcúrarət (tít), ɔcúrararət (tít)** ‘meet e.o.’

Some examples with **ɔcúrət** (tít) ‘meet’ follow here. With a plural subject and without prepositional phrase **ɔcúrət** ‘meet’ has a reciprocal reading (first example). With **ɪ-** + noun, or with **tít**, it has a non-reciprocal reading (second and third example):

**ɪn-t-ɔcúrətə**            ‘we (EXCL) met (e.o.)’  
**ɪn-t-ɔcúrətə ɪ-kəllân**    ‘we (EXCL) met with the old woman’  
**ɪn-t-ɔcúrətə tít**        ‘we (EXCL) met with it’ (for example a cow)

With a plural subject, reciprocal **ᄇᄆᄆᄆᄆᄆ** ‘meet’ can be used both with and without **tít**. With **tít** the reciprocity of the event is more strongly expressed.

**ᄆᄆ-t-ᄇᄆᄆᄆᄆᄆ** ‘we (EXCL) met each other’  
**ᄆᄆ-t-ᄇᄆᄆᄆᄆᄆ tít** ‘we (EXCL) met each other’

Both **ᄇᄆᄆᄆᄆ** (**tít**) ‘meet’ and reciprocal **ᄇᄆᄆᄆᄆᄆ** (**tít**) allow for a singular subject, in which case the other participant must be realized in a prepositional phrase:

**m-p-ᄇᄆᄆᄆᄆᄆ ᄆ-kəllân** ‘I met the old woman’  
**\*m-p-ᄇᄆᄆᄆᄆᄆ**  
**m-p-ᄇᄆᄆᄆᄆᄆᄆ ᄆ-kəllân** ‘I and the old woman met e.o.’  
**\*m-p-ᄇᄆᄆᄆᄆᄆᄆ**

By contrast, the reciprocal derivation of ‘wrestle’, **ᄇᄆᄆᄆᄆᄆᄆ tít**, does not allow for a singular subject. Compare:

**a-cumpóᄆᄆᄆᄆ ᄆᄆᄆᄆᄆᄆᄆ ᄆ-papê**  
 CONJ-monkey(sp.) wrestle:DEPPRFV in-fish

and the *cumpuraj*-monkey wrestled with the fish

**\*a-cumpóᄆᄆᄆᄆ ᄆᄆᄆᄆᄆᄆᄆᄆ ᄆ-papê**  
 CONJ-monkey(sp.) wrestle-REC1:DEPPRFV in-fish

#### 14.6. Combinations of derivational suffixes

A verb stem can contain more than one derivational suffix. The Locative-applicative suffix **t** always comes in final position, and in derivations based on lexicalized **t**-final verbs, the final position of **t** is maintained. In the absence of the **t**-suffix, the Benefactive suffix (**ᄆᄆ**) comes last. If a verb contains both, they combine to (**ᄆᄆt**). Any other derivational suffix (Causative, Passive, Reciprocal) precedes a Benefactive and/or Locative-applicative suffix. Some examples:

Causative **ᄆᄆ** + Benefactive (**ᄆᄆ**):  
**ᄆᄆᄆᄆ-ᄆᄆ** ‘make work’ **ᄆᄆᄆᄆ-ᄆᄆ-ᄆᄆ** ‘make work for’

Passive **akɔ** + Benefactive (**i**)**ne**:

**un-akɔ** ‘be poured’     **un-ak-ine** ‘be poured for’

Passive (**V**)**tta** + Benefactive (**i**)**ne**:

**ere-tta** ‘be said’     **ere-tta-ne** ‘be said to’

Final **t** + Benefactive (**i**)**ne**:

**ɔccɔkɔt** ‘catch’     **ɔccɔk-ɪntet** ‘catch for sb.’

+ Causative **ie**:

**ɔccɔk-ɪntet** ‘catch for sb.’     **ɔccɔk-ie-ntet** ‘make catch for sb.’

Final **t** + Reciprocal (**a**)**ro** + Benefactive (**i**)**ne**:

**ɔccɪkɔt** ‘hear, listen’     **ɔccɪk-ar-əntet** ‘listen to each other’

In combinations of a Causative suffix and a Passive suffix, the Causative suffix precedes the Passive suffix. Since the Causative suffix has a final **ɛ**, the Passive suffix that follows is most commonly PASS2 (**V**)**tta**, but combinations with PASS1 (**a**)**kɔ** are also attested.

Causative **ɛ** + Passive (**V**)**tta**:

**ɔcɛɪ-ɛ** ‘make stand, make wait’     **ɔcɛɪ-ɛ-tta** ‘be made to stand, be made to wait’

Causative **ie** + Passive (**V**)**tta**:

**ɔn-ie** ‘make build’     **ɔn-ie-tta** ‘be made to build’

Causative **ie** and final **t** + Passive (**V**)**tta**:

**ɔkk-ie-t** ‘make do, make make’     **ɔkk-ie-tta-t** ‘be made to do, be made to make’

Causative **ie** + Passive (**V**)**tta** or (**a**)**kɔ**:

**ɛɪta, ɪɪta** ‘become cool’     **ɛɪetta, ɛɪekɔ, ɪɪetta, ɪɪekɔ** ‘be made cool, be blessed’

A sentential example of ‘build’ with Causative, Passive and Benefactive suffix follows here:

**m-p-əká.t**    **cık**    **a-n-ún-ıe-tta-ne**    **ṭóməccə**    **mǎn**  
 1-C-be:COMPL    VREF    CONJ-1-build-CAUS-PASS2-BEN:DEPINCOMPL    old\_man    house

I was made / forced to build a house for the old man

When a Causative suffix is attached to a verb that ends in **kə(t)** that is not a Passive (such verbs often have middle semantics), the suffix replaces the final or last vowel **ə**, e.g.,

**apəṭılakə** ‘hang (subject is human or animal, from the hands)’ /  
**apəṭılak-ıe** ‘make hang (a human or animal, from the hands)’

A Passive suffix can also be attached:

**apəṭılak-ıe-tta** ‘be made to hang (from the hands)’

A Causative and a Reciprocal suffix can be combined in two ways. The Reciprocal suffix (**a)rə** (REC1) can precede the Causative suffix **ıe**, and the Causative suffix **ıe** can precede the Reciprocal suffix (**V**)**ttə** (REC2). First an example of REC1 (**a)rə** followed by the Causative suffix:

**ə-kukkó**    **p-á.ɣw-ár-ıe**    **ôl**  
 PERS-Kokku    C-kill.PLUR-REC1-CAUS2:INCOMPL    people

Kokku will make the people kill each other

When the Causative suffix precedes the REC2 suffix (**V**)**ttə**, the REC2 suffix functions as an anti-passive. The unexpressed objects are translated with ‘us’ since the person who utters the sentence is included.

**ə-kukkó**    **p-á.ɣw-ıe-ttə**  
 PERS-Kokku    C-kill.PLUR-CAUS2-REC2:INCOMPL

Kokku will make us kill e.o.

**ə-kukkó**    **p-á.ɣw-ıe-ttə**    **ôl**  
 PERS-Kokku    C-kill.PLUR-CAUS2-REC2:INCOMPL    people

Kokku will make the people kill us







## 15. čĭk ‘place(s)’: noun and grammaticalizations

There is a noun **čĭk** ‘place(s)’, functioning as a common noun, and there are grammaticalizations of this noun. I distinguish two grammaticalizations: 1) a “vague-reference” particle **čĭk** and 2) a pragmatic marker **čĭk-** ‘just, exactly’ which is proclitic to locative constituents.

In this chapter, I will first discuss the noun **čĭk** ‘place(s)’, then the “vague-reference particle” **čĭk**, then the locative proclitic **čĭk-**. I’ll end with a few remarks on the lexical item **ɲčĭk**.

### 15.1. The noun **čĭk** ‘place(s)’

**čĭk** ‘place(s)’ functions as a regular noun. It can have modifiers agreeing with it (first and second example below), and it can function as subject (first example), object (second example), or be preceded by a prepositional proclitic (third example).

**čĭk**      **éɲ-c-í**      **c-ś-ɬok**  
 place      DEM-C-NEARSP      C-of-dog

this is the place of the dog (the place where the dogs always stays, for example in a corner of the compound)

**a-áppó**      **śɬ-í.at**      **čĭk**      **c-ɔnnókkwakɔɬ.e**      **appĭk**  
 CONJ-Tocho      IT:DEPINCOMPL-find:DEPPRFV      place      C-be\_closed.PLUR:COMPL      all

and the Tocho found all places closed (fr. written story)

**ul**      **w-ɔ-nɔ-čĭk**      **ɪ-c-ɔnó**      **kəɾan**      **itti**      **ɬáɾu**  
 people      C-of-on-place      RES-C-have      name      that      ɬaɾu

people of the place which is called ɬaɾu

**čĭk** ‘place(s)’ can often be replaced by the more commonly used noun **kaɾən/aɾən** ‘place’:

**ɔ-kín**      **ɬ-akkakáɬe**      **nɔ-čĭk**      **ɪ-c-éllá**      **tácó nán**  
 PERS-3A      C-come:PST      on-place      RES-C-not\_have:INCOMPL      grass      on:ABS

they came to a place where there was no grass (which does not have grass on it)

**ɔ-kín**    **t-akkakáɛ**    **nɔ-kaɾən**    **í-k-éllá**    **tácó**    **nán**  
PERS-3A    C-come:PST    on-place    RES-C-not\_have:INCOMPL    grass    on:ABS

they came to a place where there was no grass (which does not have grass on it)

**cĩk** can be directly preceded by **ń-** in its reading ‘(away) from’, which is only possible for locative constituents (see 16.5):

**ámmá**    **w-és.t**    **ana**    **w-íɔt**    **ól**    **ɲ-cĩk**    **áppík**  
if    PRO.C-go:COMPL and    PRO.C-find:INCOMPL    people    with-place    all

when they go they will find people from everywhere (i.e. from all places) (fr. written story)

Unlike **cĩk** ‘place’, **kaɾən/ɹɹən** ‘place(s)’ cannot be immediately preceded by **ń-** expressing ‘from’. In order for **ń-** to express ‘from’, a PPC must precede **kaɾən/ɹɹən** turning it into a locative phrase first:

**ámmá**    **w-és.t**    **ana**    **w-íɔt**    **ól**    **n-n-ɹɹən**    **appík**  
if    PRO.C-go:COMPL and    PRO.C-find:INCOMPL    people    with-on-places    all

and when they go (lit.: have gone) they find people from all places

**cĩk** relates here paradigmatically to the prepositional phrase **n-ɹɹên** ‘on places’, not to the noun. The reference of **cĩk** seems somewhat more abstract than the reference of **(k)ɹɹən**. The translation ‘everywhere’ versus ‘from all places’) tries to reflect this.

**cĩk** lacks a singular/plural opposition, but can have singular or plural reference, as shown in the example with **ń-** interpreted as ‘from’. It has also plural reference in the earlier given example about the Tocho, as can be seen from the Pluractional verb modifying **cĩk**. Replacement of **cĩk** in this clause is by the plural noun **ɹɹən**:

**a-áppó**    **óɹí.at**    **ɹɹən**    **w-ɔnnókkwakɔɹ.ɛ**    **appík**  
CONJ-Tocho    find:DEPPRFV    places    C-be\_closed.PLUR:COMPL    all

and the Tocho found that all places were closed

In the examples below, the English translations have an expletive subject where Lumun has **cĩk**. Replacement by **kaɾən** is not possible

here. Though perhaps slightly vaguer, the reference of **čik** is still close to the notion of ‘place’ or also ‘time’:

**m-p-əkɪɾá.t**      **ana**   **čik**      **c-a.ɪk**      **c-ítimat**  
 1-become\_tired:COMPL      and      place      C-be:PR      C-become\_dark:INCOMPL

I am tired and it is getting dark (i.e.: the place is getting dark)

**čik**      **c-änn-óká**      **c-áɲkə**      **ɪppa**      **nə.ppan-ĩ**  
 place      C-NEG-be:DEPCOMPL      C-be\_hot:INCOMPL      hotly      inside-Q

is it not terribly hot inside? (i.e.: is the place not terribly hot inside?)

**čik**      **c-εó.t**      **ana**      **m-p-əkɪɾá.t**  
 place      C-go:COMPL      and      1-C-become\_tired:COMPL

it is late and I am tired (lit.: the time has gone)

Unlike English expletive ‘it’, **čik** cannot be used in other contexts. For example, English ‘it is raining’ does not make use of **čik** in Lumun, but is expressed as **kapɪk kaɪk kápə** ‘the rain is falling’. I therefore regard the sentences above as containing the noun **čik** ‘place(s)’, not the vague reference particle.

## 15.2. The vague-reference particle **čik**

Morpho-phonologically and tonally, the vague-reference particle deviates from the noun. The particle will be referred to as ‘VREF **čik**’.

### *Morpho-phonology and tone of VREF **čik***

After a vowel-final verb (or adjective) the initial consonant of VREF **čik** can be articulated as a soft palatal fricative, which is regular, but it can also be entirely omitted, which is not regular. The latter realization is represented below:

<b>mpallá čik</b>	‘I will sweep’	[mbal:á-ɪkʰ]
<b>mpaɾəkó čik</b>	‘I will eat’	[mbaɾʰəp-ɪkʰ]
<b>ɔɾəkʊ čik</b>	‘eat!’	[ɔɾʰəp-ɪkʰ]
<b>mpɔɾəkəkáɾe čik</b>	‘I ate’	[mbɔɾʰəkáðe-ɪkʰ]

In case of adjacent **r**’s a small glide is inserted after **r**:

**ikkɪ cɪk** ‘sit down!’ [ɪkɪ-ɰɪkʰ]

Elision of **c** is particularly common in frequently occurring items, such as **ɔkák cɪk** ‘be’ and **ikkɔ cɪk** ‘sit, stay’. In the Present of ‘be’, **c-áɪk**, **c** can no longer be realized. Its remnant (**ɪk**) has become a fixed part of the verb.

### *Tone*

The particle is tonally irregular, as will be exemplified below. Because of this, I represent it without tone. The absence of tone marking does not imply that I regard it as a low-toned item.

In the citation form with the verb, **cɪk** is realized with a low tone, e.g. **ikkɔ cɪk** ‘sit, stay’ and **ɔkák cɪk** ‘be’. In the case of **ikkɔ cɪk** this is unexpected, since the incomplete TAM-stem **ikkɔ** has a floating high tone. It may, however, point at a rising tone, since, in final position a rising tone may be realized low (see 3.2.2). In other environments, **cɪk** can receive a high tone from a preceding element (resulting in a prepausal falling tone). This is compatible only with a low tone:

**ɔ-kakká p-ɰcét.ɛ ɔ-lótɪ cɪk**  
PERS-Kakka c-lay\_down:COMPL PERS-Lótti VREF

Kakka has laid Lótti down

**pɔɽɔpé p-ɔɽɛ cɪk**  
bird c-red VREF

the bird is reddish

Apart from cases like afore-mentioned **ikkɔ cɪk** ‘sit, stay’, there are other cases in which **cɪk** does not receive a high tone from a preceding verb with floating high tone. For example:

**k-kw-ɰtɰɔɽ-ín ɰtákká itɪ á-ɪmma cɪk**  
3-c-send:COMPL-O1 become:DEPINCOMPL that SUBJ-(2-)see:DEPINCOMPL VREF

he sent me so that you will be able to see (Acts 9:17)

**čik** itself brings a high tone to a following element. The high tone on **akká** comes from **čik**:

**ɔ-kín**   **ɬ-á-ík**   **ɬ-íkkɔt**   **pól**   **čik**   **ákka**   **p-óŋó**  
PERS-3A   C-be-VREF   C-sit\_up\_with:INCOMPL   person   VREF   that   C-sick

they sit up with the man because he is ill

**čik** modifying an adjective can have a prepausal falling tone, as shown above, but also a prepausal high tone:

**ɔ-paŋ**   **ɪ-p-óparɪ**   **ɪ-p-ótte**   **čik**  
PERS-sibling   RES-C-female   RES-C-small   VREF

the youngest sister (i.e. the youngest of three or more sisters)

There is no underlying tone pattern that can account for all these different tonal realizations. I therefore represent VREF **čik** without tone.

#### *Environments of VREF čik*

VREF **čik** occurs in two environments:

- in combination with a verb;
- in combination with an adjective.

In combination with a verb, three types can be distinguished:

1. **čik** as fixed part of the verb, functioning as part of the verbal lexeme. These combinations typically have lexicalized semantics as compared to the verb without it, but a notion of 'place' (or 'time') can often still be recognized;
2. In combination with certain transitive verbs with which an object is expected, **čik** functions as a non-referential element that marks that the verb is used without object;
3. In combination with verbs which are expected to co-occur with a locative constituent, **čik** functions as a non-referential element that changes the focus of the clause (that is, the part which is understood as the main new information) from the locative

constituent to the verb itself. There can still be a locative constituent in the clause, but this constituent is now somewhat more “backgrounded”.

In combination with an adjective **ɔɪk** functions as a modifier. It tends to make the reference of the adjective somewhat vaguer, semantically comparable to the English suffix ‘-ish’. In one case it makes the reference more precise or absolute. Only a few adjectives can co-occur with **ɔɪk**.

Whether or not a verb or adjective can or must co-occur with **ɔɪk** is lexically determined. In fact, with verbs, the boundary between **ɔɪk** as common noun denoting ‘place’ and **ɔɪk** as VREF particle is not always so clear-cut.

#### 15.2.1. **ɔɪk** as part of the verbal lexeme

In several cases, **ɔɪk** is part of the verbal lexeme. Next to a verb with **ɔɪk** there is often a verb without it, and the verb with **ɔɪk** has acquired lexicalized semantics. A notion of ‘place(s)’ (or time) can in several cases still be recognized, but synchronically **ɔɪk** as fixed part of the verb is better regarded as VREF particle, also because it is tonally different from the noun. **ɔɪk** as part of the noun can paradigmatically relate to different constituents. Some examples with **ɔɪk** paradigmatically relating to an object of the verb without it follow here:

**ɔɪlâ**            ‘wipe (something) away’  
**ɔɪlâ ɔɪk**       ‘sweep’ (combines with a locative phrase, not an object)

**ɔɪccô**            ‘take, receive (something)’  
**ɔɪccô ɔɪk**       ‘be late’ (lit.: take time)

**m-p-ɔɪccô.t**    **kəɾan**    **ittĩ** ...  
 1-C-receive:COMPL    name            that

I have received the name ... (my name is ...)



**m-p-əccó.t**    **čik ...**

1-C-receive:COMPL    VREF

I am late

In other cases, **čik** paradigmatically relates to a locative phrase:

**əkkó**            'pass' (typically followed by a locative phrase)

**əkkó čik**        'be/remain alive, survive'

**m-p-a.kkə**    **ɪ-kaɬəɾ**

1-C-pass:INCOMPL    in-road

I will pass through the road

**m-p-a.kkó**    **čik**

1-C-pass:INCOMPL    VREF

I will survive

In again other cases, the counterpart without **čik** is an intransitive verb, which can easily occur alone. Note in the third example that the verb with **čik** has the locative-applicative **t**, but not its counterpart without it.

**ɨrrə**            'jump, fly'

**ɨrrə čik**        'bow'

**aŋkə**            'be hot, boil' (INTR.)

**aŋkə čik**        'be silent'

**ura**             'escape'

**urat čik**        'become lost'

The following verb with **čik** is a passive derivation, relating to a transitive verb without it. Compare:

**əkúccət**        'prepare (something)'

**əkúccəttat**    'be prepared' (by somebody)

**əkúccəkət čik** 'be ready, be prepared' (by one's own doing)

In a few cases the verbs with and the verb without it have developed quite different semantics (assuming that there is a relationship, which is actually not certain):

**ɪt**                    ‘find’  
**ɪt cɪk**                ‘disappear’

**ɪkkə**                ‘may’  
**ɪkkə cɪk**            ‘sit, stay’

Finally, some verbs with **cɪk** have no counterpart without it:

**ɪntat cɪk**            ‘disappear’  
**ɔccɔ́kkət cɪk**        ‘get leprosy’

**cɪk** as part of the verbal lexeme does not always immediately follow the verb. In derivations of verbs with increased valency the added object comes between the verb and **cɪk**. Compare the two examples below. In the second, which was given earlier in this chapter but is repeated here, the verb **ɪkkə cɪk** has the locative-applicative derivation (**t**) which introduces an extra argument (**pól**). This argument comes before **cɪk**.

**ɔ-kín**    **ɥ-á.ík**    **ɥ-íkkə**    **cɪk**    **ɪ-cuɾé**    **c-ɔ-pira**  
PERS-3A    C-be:PR    C-sit:INCOMPL    VREF    in-buttock    C-of-tree

they are sitting under the tree

**ɔ-kín**    **ɥ-á.ík**    **ɥ-íkkət**            **pól**    **cɪk**    **ákka**    **p-óŋó**  
PERS-3A    C-be:PR    C-sit\_up\_with:INCOMPL    person    VREF    that    C-sick

they sit up with the man because he is ill

### 15.2.2. **cɪk** marking the absence of an expected object

With transitive verbs, the absence of an overt object establishes object reference to something or someone mentioned earlier in the text or otherwise understood from the context. In combination with some verbs with which an object is expected, the vague reference particle **cɪk** marks that the verb is used without an object.

Compare the following three examples with **ma** ‘know’, and also the next three with **ɾəkō** ‘eat’:

**kəllán k-ma lón l-əppōt**  
 old\_woman C-know:INCOMPL words C-many  
 the old woman knows many things

**kəllán k-má**  
 old\_woman C-know:INCOMPL  
 the old woman knows it / these things

**kəllán k-ma ċik**  
 old\_woman C-know:INCOMPL VREF  
 the old woman is wise

**m-p-a.ik p-a.ɾəkō pa-p-əɾek**  
 1-C-BE:PR C-eat:INCOMPL thing-C-some  
 I am eating something

**m-p-a.ik p-a.ɾəkō**  
 1-C-BE:PR C-eat:INCOMPL  
 I am eating it

**m-p-a.ik p-a.ɾəkō ċik**  
 1-C-BE:PR C-eat:INCOMPL VREF  
 I am eating

The verb **mma** ‘see’ implies an object. With **ċik**, **mma** refers to the ability to see, as opposed to being blind (whether literally or metaphorically):

**k-kw-óttjōt-ín óttəkka itti á-mma ċik**  
 3-C-send:COMPL-O1 become:DEPINCOMPL that SUBJ-(2-)see:DEPINCOMPL VREF  
 he sent me so that you will be able to see (Acts 9:17)

**ċik** is not used for substitution of an argument that is introduced through the (valency-increasing) application of a Benefactive or Causative derivation. These derivations imply the presence of a beneficiary or a causee, respectively – whether overtly mentioned or

understood from the context. In such cases the use of **ɕɪk** marking that the verb lacks this additional object would be contradictory to the application of the derivation. The second object in these derivations (the object required by the non-derived verb), however, can be replaced by **ɕɪk**. An example:

**k-kw-ímmíɛ.t**    **pul**    **ɕɪk**  
 3-C-make<sub>see</sub>:COMPL    person    VREF

s/he made the person see (the person was blind before)

Some verbs which can take an object can also be used alone. These verbs typically have a certain object by default. An example is **ɛrɛ** ‘speak’. Its default object **lon** ‘words’ can, but needs not be mentioned:

**k-kw-á-ík**    **p-éɛ**  
 3-C-be-VREF    C-speak:DEPINCOMPL

s/he is speaking

Other examples are **ɔrâ** ‘cultivate’ and **ɔkákɔ** ‘grind’. **ɔrâ** can be combined with different objects (for example onions, tobacco), but its object by default is **mɪl** ‘sorghum’. **mɪl** is also the default object of **ɔkákɔ**, though other things can be ground, particularly also **məkəl** ‘sesame’. With both verbs **mɪl** can be explicitly mentioned, but also left out: in the latter case it is still understood as the object. Several examples of **ɔrâ** can be found in ‘The story of the jackal’. The animals cultivate in that story, but what they cultivate (sorghum) is, throughout the story, never explicitly mentioned.

... **a-kɪn**    **ɔrâ**  
 CONJ.PERS-3A    cultivate:DEPINCOMPL

and they cultivated (the usual crop, namely sorghum) (‘The story of the jackal’)

**ɔrâ** can also take the noun **ɕɪk** ‘place(s)’ as object. **ɔrá ɕɪk** does not mean ‘cultivate’ (the action alone), but ‘cultivate the piece of land’:

... **a-kin**      **ɔrá**      **čik**  
 CONJ.PERS-3A      cultivate:DEPINCOMPL      place  
 and they cultivated the piece of land

15.2.3. **čik** marking the absence of an expected locative constituent

Locative 'be' (**ɔká**) co-occurs with a locative constituent. When VREF **čik** replaces the locative constituent, **ɔká** takes on an existential reading. Compare the following examples:

**pól**      **p-ɔ-nəppət**      **p-ɔká.t**      **ɪ-pírâ**  
 person      C-of-Nəppət      C-be:COMPL      in-tree  
 the person of Nəppət was in the forest

**pól**      **p-ɔ-nəppət**      **p-ɔká.t**      **čik**  
 person      C-of-Nəppət      C-be:COMPL      VREF  
 the person of Nəppət existed

\***pól**      **p-ɔ-nəppət**      **p-ɔká.t**  
 person      C-of-Nəppət      C-be:COMPL

In the following clause with the Past TAM of **ɔká** 'be' **čik** gives an existential reading of the verb (first example below). Here, however, **čik** can also be absent. In that case, 'be' rather functions as a copular verb, with the clause introduced by **ámakka** as the predicate complement of the copula (second example below):

**ɛl-l-ɪ**      **l-ɔka.káɛ**      **čik**      **ámakka**      **pól**      **p-ɪɛ.t**  
 DEM-C-NEARSP      C-be:PST      VREF      like      person      C-say:COMPL  
 these things happened just like the man had said

**ɛl-l-ɪ**      **l-ɔka.káɛ**      **ámakka**      **pól**      **p-ɪɛ.t**  
 DEM-C-NEARSP      C-be:PST      like      person      C-say:COMPL  
 these things happened just like the man had said

In chapter 12 on verbal inflection it was shown that the auxiliary verb 'be' can also be combined with **čik**. For example, TAMs expressing continuous action typically have **čik**. They draw the hearer's attention towards the action having some duration:

**kəllán**    **k-əká.t**    **cɪk**    **a-k-ɔkəttaccé-k**  
 old\_woman    C-be:COMPL    VREF    CONJ-C-watch:INCOMPL-O3

the old woman was watching him / the old woman was there, watching him

In some cases, there seems to be a pragmatic difference between absence and presence of **cɪk** in combination with **əkâ**. Compare the following examples. The first, with **cɪk**, is a general (unsolicited) piece of information, the second a confirmative answer:

**ʔ-əkwarəttikət**    **kápík**    **ʔ-á.ká**    **cɪk**    **nó-kamotǽ**  
 NOM-remember.PLUR    God    C-be:INCOMPL    VREF    on-celebration

there will be remembering God at the celebration (general information about what will happen at the (Christmas) celebration) (fr. written essay)

**ʔ-əkwarəttikət**    **kápík**    **ʔ-á.ká**    **nə-kamotǽ**  
 NOM-remember.PLUR    God    C-be:INCOMPL    on-celebration

remembering God will be there at the celebration (answer to the question if God will be remembered at the celebration)

**ɔɾɔ** ‘land, alight’ is another verb that must co-occur with a locative constituent but can take **cɪk** instead:

**puɾupé**    **p-ɔɾɔ.t**    **nə-pirâ**  
 bird    C-land:COMPL    on-tree

the bird has alighted in the tree

**puɾupé**    **p-ɔɾɔ.t**    **cɪk**  
 bird    C-land:COMPL    VREF

the bird has alighted

Unlike Benefactives and Causatives, productively applied Locative-applicative derivations can take VREF **cɪk**. Apart from conveying an awareness that there is a spatial component to the action, there seems to be no difference between a clause with underived verb and a clause with derived Locative-applicative and **cɪk**. Compare the following examples with **ɔɾɪa** ‘become red, ripe’ (the first) and its Locative applicative derivation **ɔɾɪat** ‘become red, ripe at’ (the second and third). **nə-pirâ** ‘on the tree’ is replaced by **cɪk**:

**aɾəpʊ w-ɔɾiá.t** 'the fruits have become ripe'  
**aɾəpʊ w-ɔɾiá.ɬe nɔ-pɪrâ** 'the fruits have become ripe on the tree'  
**aɾəpʊ w-ɔɾiá.ɬe cɪk** 'the fruits have become ripe'

The next examples contrast the transitive verbs **uttɛ** 'vomit' and **uttet cɪk** 'vomit at'. The third example contains a spatial notion though it remains unspecified.

**ʊkʊl w-a.ɪk w-úttɛ** **ɬɔɾít**  
 child C-be:PR C-vomit:INCOMPL food  
 the child is vomiting the food

**ʊkʊl w-a.ɪk w-úttet** **ɬɔɾít nɔ-capó**  
 child C-be:PR C-vomit\_at:INCOMPL food on-ground  
 the child is vomiting the food on the ground

**ʊkʊl w-a.ɪk w-úttet** **ɬɔɾít cɪk**  
 child C-be:PR C-vomit\_at:INCOMPL food VREF  
 the child is vomiting the food

The content of the stomach is the object of **uttɛ** understood by default. This means that the verb can be used without object and that the object cannot be replaced by **cɪk**.

**ʊkʊl w-a.ɪk w-úttɛ**  
 child C-be:PR C-vomit:INCOMPL  
 the child is vomiting

**\*ʊkʊl w-a.ɪk w-úttɛ cɪk**  
 child C-be:PR C-vomit:INCOMPL VREF  
 the child is vomiting

Whether or not verbs allow for replacement of the object or a locative constituent by **cɪk** is lexically determined.

15.2.4. **cik** modifying adjectives

As mentioned in chapter 10 on adjectives, certain colours can be combined with **cik**. Colours with **cik** refer to a resembling colour. In such cases, **cik** paradigmatically relates to adverbs. Compare:

**puɾupé**    **p-ɔɾe**    **ittɪǎŋ**  
bird            C-red            very

the bird is very red

**puɾupé**            **p-ɔɾe**            **cík**  
bird                    C-red                    VREF

the bird is reddish

**cik** can also be combined with at least some verbs related to colour terms, for example with **ɔpuka** ‘become white’, which is related to the adjective C-**ɪpuk** ‘white’:

**puɪ**    **ɪ-p-ɔká.t**    **p-ɔpuká.t.ɛ**            **cík**  
person    RES-C-be:COMPL    C-become\_white\_at:COMPL    VREF

a man who was whitish (for example from disease)

**ɔttê** / **ɔttê** ‘small’ is another adjective that can be collocated with **cik**. In this case, **cik** makes the adjective more precise or absolute. The combination with **cik** refers only to the youngest sibling. Compare:

**ɔ-paŋ**            **ɪ-p-ɔpaɪ**            **ɪ-p-ɔtte**  
PERS-sibling    RES-C-female            RES-C-small

a small sister / a younger sister (i.e. the youngest of two sisters, or a younger, but not the youngest in a family with more sisters)

**ɔ-paŋ**            **ɪ-p-ɔpaɪ**            **ɪ-p-ɔtte**            **cík**  
PERS-sibling    RES-C-female            RES-C-small            VREF

the youngest sister

In the next example, the sentence in which **cik** is absent expresses that the person is still relatively young (for a certain purpose, for example for marriage). The second sentence, with **cik**, makes a statement in a more absolute sense: ‘s/he is still a child’.



**k-kw-árə̀tək**    **p-ə̀ttê**  
 3-c-be\_still            c-small

s/he is still young (implication for example: she can still get married)

**k-kw-árə̀tək**    **p-ə̀ttê**    **čík**  
 3-c-be\_still            c-small            VREF

s/he is still a child

**p-ə̀ttê** 'small' forms part of the expression **papə̀ttê** 'a little, a little time', which derives from **papə̀** **pə̀ttê** 'small thing'. **papə̀ttê** can be used with and without **čík**. In the first example below, without **čík**, it denotes a period of time of short duration. In the second, with **čík**, it refers to a moment shortly before (or after) the moment of speech.

**m-p-a.ík**    **p-â.ŋəkə̀**    **pá.p.ə̀ttê**  
 1-c-be            c-rest:INCOMPL            short\_time

I am resting a little

**m-p-aa.t**    **pá.p.ə̀ttê**    **čík**  
 1-c-come:COMPL            short\_time            VREF

I just arrived

### 15.3. Locative proclitic **čík**- 'just, precisely'

Proclitic **čík**- can be attached to a prepositional phrase or a noun with locative semantics. It typically functions as a confirmative particle, expressing that something (indeed) happens or happened on that very spot. The use of proclitic **čík**- presupposes that the place is known (identifiable) for the hearer. Proclitic **čík**- can also be used when the locative constituent is a further precision of a preceding statement or question. Examples will be given after some remarks about morpho-phonological and tonal properties of the proclitic.

#### *Morpho-phonological and tonal properties of proclitic **čík**-*

The realization of proclitic **čík**- is determined by the initial sound of the word to which it is attached. It assimilates to a following consonant resulting in a (short) voiceless plosive or a short sonorant,

or is realized as a soft fricative/approximant before a vowel: this is all fully regular. For example:

**cɪ-nə-pərrɔ̃k** ‘on the very chair’ (glossed: LOC-on-chair)

The clitic differs from the noun and the vague reference particle when it comes to slow or careful (cut up) speech: the final **k** of the clitic will not be pronounced as [k̚]. The clitic is either rendered as [cɪ] or, when followed by the positional proclitic **ɪ-**, as [cɪɪ], showing its clitic nature. Before **a** some speakers fully elide **k**:

**cɪ-akkómân** ‘since (precisely) then’

Proclitic **cɪk-** brings a high tone to a following element, but cannot itself receive a high tone unless through tone bridge, which is compatible with either a rising or a high tone. Unlike the noun **cɪk** it has no prepausal realization. As I do in such cases (see 3.8), I assign it a high tone.

**cɪk-** procliticizes to locative phrases. Its use assumes that the place is identifiable for the hearer and it tends to convey a sense of ‘precisely’, ‘especially’ or ‘only’ at that place. In the example below, it is assumed that the hearer knows the chair of the speaker:

<b>m-p-a.ɪk</b>	<b>p-ɪkkɔ̃</b>	<b>cɪk</b>	<b>cɪ-nə-pərrɔ̃k</b>	<b>p-m</b>
1-C-be:PR	C-sit:INCOMPL	VREF	LOC-on-chair	C-POSS1

I am sitting on this very chair of mine (in a telephone conversation, the chair is known to the addressee)

The difference between presence and absence of the clitic is generally subtle and can be rather difficult to capture in English translation. ‘Just’, ‘precisely’ or ‘the very’ actually tend to be somewhat too strong.

A typical situation in which **cɪk-** will be used is the following:

**ŋ-kw-a.ik p-a.éś karə-ʔa / m-p-a.ik p-a.éś tɔumâŋ /**  
 2-C-be:PR C-go:INCOMPL where-QW 1-C-be:PR C-go:INCOMPL Tɔumâŋ

**kərən tɔumâŋ / cɪ-ʔ-tɔ-niméri-ŋn**  
 where Tɔumâŋ / LOC-at.PERS-Niméri-PL

where are you going? / I am going to Tɔumâŋ / where in Tɔumâŋ? / to Nimeri’s house

Two further examples follow here:

**... a-kw-ɪɽikɔ.t cɪ-nɔ-cúɽâŋ**  
 CONJ-3-tie\_at:DEPINCOMPL LOC-on-stick(k.o.)

and she tied it onto the stick (In the story, the stick has already been introduced. **cɪk-** draws extra attention to the ornament being put in place)

**arriɽ.ɛ wɛk w-əɽɛk cɪc-cénəkɛt ána w-əɽɛk cɪc-cénəkɛt**  
 make\_cross:IMP leg C-some LOC-there\_not\_far and C-some LOC-there\_not\_far

put one foot just there and the other one just there! (the speaker points at the places, the addressee should put his feet precisely at those places) (fr. written story)

**cɪk-** can be used on a constituent that has a locative role in a certain context, though it lacks prepositional marking or inherently locative semantics. Compare the following examples:

**k-kw-ɔkkottá.t círí c-ɔ-wék**  
 3-C-be\_hit:COMPL joint C-of-leg

s/he was hit at the ankle

**k-kw-ɔkkottá.t cɪc-círí c-ɔ-wék**  
 3-C-be\_hit:COMPL LOC-joint C-of-leg

s/he was hit precisely at the ankle

The presence of VREF **cɪk** does not stand in the way of addition of **cɪk-** to the locative phrase:

**m-p-a.ik p-íkkɔ cɪk cɪc-cənɛ**  
 1-C-be:PR C-sit:INCOMPL VREF LOC-here

I am sitting right here

**ɔ-kín t-ɔɾəkk.áɛ cik ci-nóɾá w-ɔ-káncāŋ**  
 PERS-3A C-eat:PST VREF LOC-on\_top C-of-big\_flat\_stone

they ate right on the big flat stone (the hearer is assumed to know the stone)

**cík-** cannot be used before a question word. The knowledge that **cík-** presupposes on the part of the hearer is incompatible with the question word. Compare:

**n-t-ɔká.t kárə-tá máí**  
 2A-C-be:COMPL where-QW just\_before

where have you (PL) been just now?

**\*n-t-ɔká.t cik-kárə-tá máí**  
 2A-C-be:COMPL LOC-where-QW just\_before

**cík-** can be proclitic to a temporal prepositional phrase (first example below), but not to every time-adverbial word (third example below):

**k-kw-ânn-aŋkət itti k-kw-ítta ci-nə-tupút éŋ-t-í**  
 3-C-NEG-want:DEPCOMPL that 3-C-get\_married:INCOMPL LOC-on-year DEM-C-NEARSP

she does not want to get married this year

**m-p-aa.t máí**  
 1-C-come:COMPL just\_before

I have just arrived

**\*m-p-aa.t ci-máí**  
 1-C-come:COMPL LOC-just\_before

Prepositional **ń-** ‘with, by, (away) from’ can precede locative phrases, expressing ‘from’. In such cases **ń-** comes before proclitic **cík-**:

**m-p-ɪcántɛt mɛccɪn ɲ-cík-i-cɪŋkɪ**  
 1-C-lie\_down\_for:PST yesterday with-LOC-in-sun

I slept yesterday from sunrise

**m-p-ɪcántɛt mɛccɪn \*ci-n.ti-i-cɪŋkɪ**  
 1-C-lie\_down\_for:PST yesterday LOC-from-in-sun

Proclitic **cík-** is a fixed part of the following adverbs:

**cɪt.tó.kít** ‘firstly, at first’ (< **cík-** + **tó** ‘up at’ + **kít** ‘eyes’)  
**cɪn.nó.môn** ‘firstly, at first’ (< **cík-** + **nó** ‘on’ + ?)  
**cɪt.tán** ‘far, far away’ (< **cík-** + **tán** ‘there’ (see 16.6 and 17.1.2))

Two examples:

**ana kɪt k-akkakáɛ cɪt.tó.kít**  
 and wild\_chicken C-come:PST firstly  
 and the wild chicken arrived first

**ɛɛ kɔɾɪ cɪt.tán**  
 stab:IMP cry far  
 cry out loudly!

#### 15.4. The lexical item **ɲcɪk**

There is an item **ɲcɪk** consisting of prepositional **ń-** ‘with, by, (away) from’ and VREF **cɪk**. It behaves like a single low-toned item, not like clitic **ń-** + another element, since **ń-** cannot receive a high tone, but here it can. **ɲcɪk** is part of fixed lexical combinations. Lacking a clear meaning, but often still containing some notion of ‘place’, I gloss it as a single lexical item ‘from\_VREF’. **ɲcɪk** must be distinguished from **ɲcɪk** ‘from place(s)’. An example with **ɲcɪk** is given in chapter 16.5. Some examples with **ɲcɪk** follow here:

**ɔkóɛ man ɲ.cɪk**  
 make\_move\_up:DEPINCOMPL house from\_VREF  
 to make a house rise up from nothing (when the building was started there was nothing)

**ɔkóɛ kɪt ɲ.cɪk**  
 make\_move\_up:DEPINCOMPL wild\_chicken from\_VREF  
 to make a wild chicken appear from nothing (typical situation: the chicken could not be seen, you throw something to where you think it is, then it suddenly flies up and appears as if from nowhere).

**ŋ-kw-a.kkwín-ǝk kunu j̄.cɪk**  
 2-C-hit\_for:INCOMPL-O3 ear from\_VREF

you fix your ear to him/her (you must listen to him/her carefully. Lit.: you hit for him/her the ear (...). The picture is that somebody holds his ear turned to the sound, concentrating to catch it)

**m-p-ǝkwɛɾǝ.t kuŋku j̄.cɪk**  
 1-C-graze:COMPL knee from\_VREF

I have grazed my knee (through quick contact with a rough place)

## 16. Prepositional proclitics

Lumun has five basic prepositional proclitics (PPCs). They can be attached to a noun, including a noun with the persona prefix, a full personal pronoun, an independent possessor, an independent demonstrative or an independent modifier. Four proclitics are locative:

<b>ɪ-</b>	‘in’
<b>ɲɔ-</b>	‘on, at’
<b>tɔ-</b>	‘up on, up at’
<b>tɔ̃-</b>	‘at’

The fifth marks instrumental role, comitative role, or agent role in a passive construction. It can also function in a locative context; there it expresses ‘(away) from’:

<b>ɲ̃-</b>	‘with, by, (away) from’
------------	-------------------------

In this chapter, I first present the tonal, morpho-phonological and morphological properties of the PPCs and then discuss their semantics, specific collocations and collocational restrictions. I also discuss complex prepositions and the “absolute” forms of the PPCs, which I call “absolute prepositions”. I will present different syntactic environments in which they are used. In the last section of the chapter, I provide some examples of attachment of **ɲ̃-** ‘with, by, (away) from’ to a different constituent than expected on grounds of the role that it expresses.

### 16.1. Tone

**ɪ-**, **ɲɔ-**, **tɔ-** and **tɔ̃-** impose a specific tone pattern on the nouns to which they are attached. Since these patterns deviate from what can be expected on the basis of the general tone roles, I represent **ɪ-**, **ɲɔ-**, **tɔ-** and **tɔ̃-** without tone.

**ɲ̃-**, on the other hand, behaves tonally as expected from a monomoraic element with a high or rising tone. There are, however,

no cues that allow for a choice between these patterns: the element cannot be realized in isolation, nor does it have additional morae that might (or might not) receive a high tone from another element. As set out in 3.8 on tone, I assign a high tone in such cases.<sup>4</sup>

When **ɪ-**, **nɔ-**, **tɔ-** and **ʈɔ-** precede a L-noun, a H tone comes on the second mora of the noun, followed by a L-tone. This results in a falling tone on the second mora when the noun is bimoraic. When the L-noun is monomoraic, **ɪ-**, **nɔ-**, **tɔ-** and **ʈɔ-** generate a falling tone on the first mora. When **ń-** precedes an all-low noun, the Tone Shift Rule is applied, bringing a falling tone on the first mora of the noun. Then Contour simplification is applied, unless the falling tone is in prepausal position.

Table 100 Tonal effects of the PPCs on low-toned nouns

	<i>ul</i> ‘person’	<i>əlla</i> ‘cats’	<i>cəɽɔki</i> ‘gourd (k.o.)’	<i>əɽəmekku</i> ‘bats (sp.)’
<b>ɪ-</b> (also <b>nɔ-</b> , <b>tɔ-</b> , and <b>ʈɔ-</b> )	<b>ɪ-ól</b> ‘among the people’	<b>ɪ-əllâ</b> ‘among the cats’	<b>ɪ-cəɽóki</b> ‘in the gourd’	<b>ɪ-əɽəmekku</b> ‘among the bats’
<b>ń-</b>	<b>n-ól</b> ‘with the people’	<b>n-əllâ</b> ‘with the cats’	<b>ɲ-cəɽóki</b> ‘with the gourd’	<b>n-əɽəmekku</b> ‘with the bats’

L-toned nouns with a long vowel preceded by **ɪ-**, **nɔ-**, **tɔ-** and **ʈɔ-** also get the H-tone on the first vowel:

**ɪ-cáa** ‘in the grape’

**ɪ-éɛ** ‘in the poison’ (< **ɪ-** + **ɲɛɛ**)

One L-noun has a different tonal realization when preceded by one of the proclitics **ɪ-**, **nɔ-**, **tɔ-** and **ʈɔ-**. With **caɽɽak**/**maɽɽak** ‘calabash (k.o.)’ all prepositional proclitics give a H-tone on the first mora:

<sup>4</sup> There are attestations of a high tone realized on the initial nasal in the word **ɲɪk** (**ɲɪk**). I regard **ɲɪk** in these cases as a lexicalized item. Though the PPC **ń-** is clearly historically a formative here, synchronically I regard the initial nasal no longer as the PPC in this word (see also 15.4).



**ɪ-cáttak** ‘in the calabash (k.o.)’

When **ɪ-**, **nɔ-**, **tɔ-** and **tɔ-** precede a noun with a H-tone, whether or not as part of a contour, the tone pattern of the noun does not change. When preceded by **ń-**, sub-Rules 1 to 4 apply (see 3.3.3).

Table 101 Tonal effects of the PPCS on nouns containing a H-tone

	<b>ɪ-, nɔ-, tɔ-, tɔ-</b>	<b>ń-</b>
<b>t̩ök</b> ‘dog’ <b>waɪ</b> ‘cow’ <b>kəɹɪtt̩ǎŋ</b> ‘knife’ <b>t̩ennekkett̩ǎ</b> ‘test’	<b>nɔ-t̩ök</b> <b>tɔ-waɪ</b> <b>nɔ-kəɹɪtt̩ǎŋ</b> <b>ɪ-t̩ennekkett̩ǎ</b>	<b>n-t̩ök</b> <b>n-naɪ</b> <b>ŋ-kəɹɪtt̩ǎŋ</b> <b>n-t̩ennekkett̩ǎ</b>
<b>kɪt</b> ‘eye’ <b>ɔpá</b> ‘piece of meat’ <b>aɾankál</b> ‘bed’ <b>mɪm̩ənterɪ</b> ‘hedgehogs’	<b>ɪ-kɪt</b> <b>nɔ-ɔpá</b> <b>ta-aɾankál</b> <b>ɪ-cɪm̩ənterɪ</b>	<b>ŋ-kɪt</b> <b>n-ɔpá</b> <b>n-áɾaŋkál</b> <b>ɲ-cɪm̩ənterɪ</b>
<b>mɪl</b> ‘sorghum’ <b>kurr̩ɔŋ</b> ‘stick’ <b>ŋaɪtt̩ɔkk̩ɔl</b> ‘calabash (k.o.)’ <b>ŋaɪtt̩ərəp̩ɛ</b> ‘rabbit’	<b>ɪ-mɪl</b> <b>nɔ-kurr̩ɔŋ</b> <b>ɪ-aɪtt̩ɔkk̩ɔl</b> <b>ta-aɪtt̩ərəp̩ɛ</b>	<b>m-mɪl</b> <b>ŋ-kurr̩ɔŋ</b> <b>ŋ-ŋaɪtt̩ɔkk̩ɔl</b> <b>ŋ-ŋaɪtt̩ərəp̩ɛ</b>
<b>t̩ərɔma</b> ‘ram’ <b>lɔm̩óttɔ</b> ‘bull (k.o.)’ <b>ŋaccəpápa</b> ‘tool (k.o.)’ <b>aləppaɪúra</b> ‘tomato’ <b>ɪɾɪmanɪɾɪman</b> ‘spiders’	<b>tɔ-t̩ərɔma</b> <b>tɔ-lɔm̩óttɔ</b> <b>na-accəpápa</b> <b>ɪ-aləppaɪúra</b> <b>ɪ-ɾɪmanɪɾɪman</b>	<b>n-t̩ərɔma</b> <b>l-lɔm̩óttɔ</b> <b>ŋ-ŋáccəpápa</b> <b>n-áləppaɪúra</b> <b>n-íɾɪmanɪɾɪman</b>

The above description of tonal realizations of prepositional proclitics and nouns does not account for all tonal phenomena that relate to the prepositional proclitics, and a couple of attestations defy a clear analysis. **nɔ-** and **tɔ-** (and probably also **tɔ-**) can be realized with a high tone outside situations of tone bridge, and there are even attestations of **nɔ-** realized with a high tone where a preceding element providing this high tone appears to lack. **marɪ** ‘beans’ in the example below is an entirely low noun:

**pul**    **p-ɔɹəkɔ́t̩.ɛ**    **marɪ**    **nɔ-capó**  
person    C-eat\_at:COMPL    beans    on-ground

the man has eaten the beans on the ground (i.e. while sitting on the ground)

ɪ-, on the other hand, never receives a high tone from a preceding element, nor is it ever realized high apparently ‘out of the blue’.

The following minimal pair also testifies to **nɔ-** and **ɪ-** having different tonal effects. The verb preceding the PPC is realized differently:

<b>kwɔk</b>	<b>k-a.ɪk</b>	<b>ɪ-wék</b>
shoe	C-be:PR	in-leg

the shoe is on the foot

<b>kwɔk</b>	<b>k-a.fk</b>	<b>nɔ-wék</b>
shoe	C-be:PR	on-leg

the shoe is on the foot

## 16.2. Morpho-phonology and morphology

### *Vowel assimilation and coalescence*

When **nɔ-**, **tɔ-** or **ʦɔ-** is prefixed to an **ɔ**-initial noun, the resulting vowel tends to retain some length. A difference is audible between minimal pairs such as **nɔ-ɔpá** ‘on the piece of meat’ and **n-ɔpá** ‘with the piece of meat’. I therefore use a double vowel in the spelling in case of attachment of **nɔ-**, **tɔ-** and **ʦɔ-** before **ɔ** or an initial vowel to which the PPC assimilates, as far as this vowel is the initial vowel of a common noun. Before the persona prefix (**ɔ-**) no length seems to be retained, nor for a demonstrative starting with **ɛ**.

The vowel of **nɔ-**, **tɔ-** and **ʦɔ-** assimilates to a following **a** or **ɛ**:

<b>nɔ-</b> + <b>arəpu</b>	>	<b>na-arápu</b> ‘on the things’
<b>nɔ-</b> + <b>ɛpu</b>	>	<b>nɛ-ɛpú</b> ‘on the mushrooms’

The same happens before independent possessors and demonstratives. Concord **ʦ** in the examples below agrees, for example, with **ʦuk** ‘dog’.

**nɔ-** + **áɫaŋ** > **n-áɫaŋ** ‘on yours’  
**nɔ-** + **enti** > **n-enti** ‘on this one’

An exception is the following, in which **ɛ** of the noun assimilates to preceding **ɔ**:

**nɔ-** + **ɛɾəkê** > **nɔ-ɔɾəkê** ‘on the stirring spoons’

Attachment before one of the other vowels (**i**, **u**, **ɪ**, **ʊ**, **ə**) results in a diphthong.

Initial **ŋ** is (regularly) deleted between vowels. In such cases some length of the vowel tends to be more audible than upon direct adjacency of the vowels. The same assimilations take place, e.g.,

**nɔ-** + **ŋɛɾɪŋkâ** > **nɛ-ɛɾɪŋkâ** ‘on the donkey’

*Attachment to (pro)nouns with the persona prefix*

Upon attachment of **nɔ-**, **tɔ-** or **ɬɔ-** to a noun with the persona prefix (**ɔ-**) there is full coalescence, resulting in a short vowel. Recall that **ɪ-**, **nɔ-** and **tɔ-** cause the persona prefix to change into **á-**, but **ɬɔ-** does not (see 4.10.1):

**k-kw-ɔɬɬé.t**      **nɔ-kəmən ána**      **n-a-paŋón**      **ana nó-ɪmít**  
 3-C-leave\_behind:COMPL    on-houses      and      on-PERS-sibling.PL      and      on-goat  
 s/he left the house and his/her siblings and the goat behind

**ɬɔkukkóŋ**      ‘at the house of Kukkú and his family’

A short vowel **a** also results upon attachment of **nɔ-** and **tɔ-** to a personal pronoun (**ɬɔ-** cannot occur in that position), i.e.:

**na-âk** ‘on him/her’ (< **nɔ-** + **ɔk**)

Full paradigms are given in chapter 6.1.4.

*ATR harmonization*

The vowels of the prepositional proclitics may undergo some influence of a +ATR noun to which they are attached, but do not fully harmonize with the +ATR noun. I therefore spell ‘in’ as **ɪ-** (instead of **ɨ-**) in for example:

**ɪ-cərúk** ‘in the opening’

*Homorganic nasal*

Lumun consonant clusters are always homorganic and the general rule is that the first consonant of a cluster adapts—at least—for place of articulation to the second. **ń-** ‘with, by, (away) from’ is no exception. It assimilates for place of articulation to a following obstruent consonant, e.g.,

**ŋ-kurrōŋ** ‘with the stick’

It fully assimilates to following **l**:

**l-lōn** ‘with words’

A following **w**, however, assimilates to **ń-**:

**n-naĭ** ‘with the cow’ (< **ń-** + **waĭ**)

Long initial consonants that are due to attachment of prepositional **ń-** tend to be pronounced with some length.

*Irregular assimilation of t or k before ń- and before nɔ- attached to a (pro-)noun with the persona prefix*

Deviating from the general rule, **ń-** does not cause the final **t** or **k** of a preceding word to become nasal. Instead, it causes lenition of **t** to **r**, and of **k** to **w**. The absolute counterpart of **ń-**, **ŋŋɪn**, has the same effect. **nɔ-** and its absolute counterpart **nán**, on the other hand, have the regular effect of eliding a preceding word-final **t** or **k**.

Unexpectedly, however, when **nɔ-** is attached to a noun or pronoun with the persona prefix it causes lenition of a preceding **t** to **r**, and of a preceding **k** to **ɸ**. Examples of these different assimilations are provided in 2.1.1.

*Allomorph rɪ- of ɪ- ‘in’*

**ɪ-** ‘in’ has an allomorph **rɪ-**, which is applied when ‘in’ is preceded by the connexive **C-ɔ** ‘of’, e.g.,

**ɔkukkú kórítt̩k** ‘Kokku of in the field’ (i.e., Kokku born from an unmarried mother) < **k-ɔ** ‘of’ + **rɪ-** ‘in’ + **kərək** ‘farming field’

Assuming that **r** is the intervocalic allophone of **t** here, the same **t** preceding **ɪ-** is found in the absolute form of **ɪ-**, **tít**, and in the combination of **ń-** + **ɪ-**, realized as **ntɪ ɪ-**, with **ntít** as its absolute form (see 16.6). This suggests an older form of **ɪ-** with **t** preceding it (**\*tɪ-**), which has been retained in some words/environments.

*Allomorph na- of nɔ-*

**nɔ-** has an allomorph **na-** which occurs when the PPC is used in a comparative construction before an independent modifier:

<b>ɪ-c-ípe</b>	<b>akk-ɔpərót</b>	<b>ná-í-c-íé</b>
RES-C-old	FOC-good	on-RES-C-new

the old one is better than the new one

*Changed shape of certain nouns after ɪ-, nɔ-, tɔ- or t̩-*

It is mentioned here also that certain nouns occur, or can occur, in a changed phonological shape upon prefixation of **ɪ-**, **nɔ-**, **tɔ-** or **t̩-**. One example is:

**nɔ-** + **pə̀t̩k** ‘stone’ > **nɔ-t̩t̩k** ‘in the country’

Further cases are listed in chapter 4.4. Some nouns occur both in original as in changed shape after a PPC and have developed different meanings. Such cases are presented in the subsections of 16.3.

### 16.3. Semantics and use of **ɪ-**, **ɲ-**, **ɬ-** and **ʈ-**

All four locative proclitics (**ɪ-**, **ɲ-**, **ɬ-** and **ʈ-**) can be used both in static expressions and in movement expressions<sup>5</sup>.

#### 16.3.1. **ɪ-** ‘in’

**ɪ-** typically expresses a notion of being (or becoming) enclosed or enveloped or surrounded. It can often be translated as ‘in’ or ‘into’ or through (that is, moving through something) and with a plural noun as ‘among’ or ‘between’.

<b>maɪt</b>	<b>m-a.ɪk</b>	<b>ɪ-cakkəlɔ́k</b>
beans	C-be:PR	in-calabash(k.o.)

the beans are in the calabash

<b>ɔppɔ́t.ɛ</b>	<b>máɪt</b>	<b>ɪ-éɲ-c-í</b>
put_at:IMP	beans	in-DEM-C-NEARSP

put the beans in this one! (in this *cakkəllək*)

<b>ɔccu</b>	<b>ɬɬək</b>	<b>én-t-í</b>	<b>á-ɬɪke</b>	<b>ɪ-cəɾúk</b>
receive:IMP	rope	DEM-C-NEARSP	SUBJ-(2-)make_pass_entrance:DEPINCOMPL	in-opening

take this rope and pass it through the opening (lit.: in order to pass it ...)

<b>aɾəpu</b>	<b>w-ɔɾɪáɬ.ɛ</b>	<b>ɪ-paɲ-k-én</b>
things	C-become_red_at:COMPL	in-sibling-C-of:ABS

the fruits have become ripe between the other fruits (lit.: between their siblings)

Some nouns can occur in a changed form after the PPCs **ɪ-**, **ɲ-**, **ɬ-** and **ʈ-** (see chapter 4.4). Next to this form, a regular form is often

<sup>5</sup> Examples of the use of the prepositions in static situations are provided in Smits (2007), which contains short locative sentences, elicited with the help of pictures designed by Melissa Bowerman (1993). The sentences answer the question ‘where is X’.

possible as well. In some cases, the form with gemination and the regular form have different meanings. Examples with **ɪ-** are:

- pəṭək** ‘stone’  
**ɪ-pəṭək** ‘under a stone’ (typically in a (small) hole that has been dug and that has been closed by a stone)  
**ɪ-ttək** ‘in the cavity under stones that touch each other’ (typically shaped by nature)

- kərək** ‘farming field’  
**ɪ-kərək** ‘in the bigger farming field away from the house’  
**ɪ-ttək** ‘in the small farming field immediately around the house’

- pərit** ‘granary’  
**ɪ-pərit** ‘in the space between the actual storehouse and the wall of a room in which it is located’  
**ɪ-ttīt** ‘in the granary (i.e. in the actual storehouse)’

**ɪkkwâ** (< **ɪ-** + **ka** ‘body’) is a comparable case because of the gemination of the consonant. The regular form **ɪ-ká** is part of a complex preposition (see section 16.4):

- ka** ‘body’  
**ɪ-ká kə** ‘in the centre/middle part of’ (in the sense of not at the edge)  
**ɪ-kkwâ** ‘in the body’

‘The shoe is on the foot’ can be expressed with **ɪ-** (example given in 16.1), and **ɪ-** is used in the following situation:

<b>ɔ-nenni</b>	<b>p-á.ík</b>	<b>p-á.kə</b>	<b>cuccú</b>	<b>ɪ-cələk</b>
PERS-NENNI	C-be:PR	C-wear:INCOMPL	bead	in-neck

Nenni is wearing a necklace around her neck

The use of **ɪ-** for temporal expressions is limited to forming a fixed part of the word for the early part of the dry season (roughly October till January): **ɪcəpə**.

**ɪ-cəpɔ**                      **ɔl**            **w-á.kɪɔ**            **mɪl**  
 in-first\_part\_of\_dry\_season    people    C-cut:INCOMPL    sorghum  
 in the beginning of the dry season the people cut the sorghum

**ɪ-** is also used outside the locative (and temporal) domain. For example, engagement in hunting activities is expressed with **ɪ-**:

**ɔl w-ɔ-rɪ-apê** ‘people of in fish’ (that is, people engaged in fishing)

Some more examples of this type were provided in chapter 4.8.1.

A few verbs are obligatorily collocated with a prepositional phrase with **ɪ-**, for example **ɔtɪɔt tít** ‘answer (to it)’. Such verbs have the absolute preposition **tít** when cited alone.

### 16.3.2. **nɔ-** ‘on, at’

**nɔ-** typically expresses surface contact, often at the side of something, but it may also be on a high (or the highest) point of something. If there is an element of height, **nɔ-** does not draw attention to it (in order to do that, **tɔ-** is used). **nɔ-** often translates as ‘on’ or ‘at’.

**ɲɔccók**            **ɲ-á.ík**            **nɔ-kəɽittǎŋ**  
 blood                      C-be:PR                      on-knife  
 there is blood on the knife

It can also be used in a directional way:

**m-p-a.ík**            **p-a.ɛɔ**            **nɔ-karɛ́n**            **k-əɽɛk**  
 1-C-be:PR                      C-go:INCOMPL                      on-place                      C-some  
 I am going to some place

**nɔ-** does not express envelopment, nevertheless it is a formative of **nɔppǎn** ‘inside’ (**nɔ-** + **tɔpan** ‘room’).

The location of holes and cracks is expressed with **nɔ-**:



**cəruk**            **c-a.ɪk**            **nə-kərət**  
 opening            C-be:PR            on-cloth

the hole is in the cloth (answer to: where is the hole?)

A case in which **nə-** preceding a noun in its regular form and in its changed form (see 4.4) have different meanings is the following:

**pətək**            ‘stone’  
**nə-pətək**        ‘on the stone’  
**nə-ttək**        ‘in the country’

**nə-** can be used in the temporal domain, where it is typically optional. In fact, not using it seems often the preferred option. The example below easily goes without it:

**k-kw-ânn-aŋkət**    **ittɪ**            **k-kw-ítta**            **(nə-)tupút**        **én-t-í**  
 3-C-NEG-want:DEPCOMPL    that            3-C-be\_married:INCOMPL    (on-)year            DEM-C-NEARSP  
 she does not want to get married this year

**nə-** is applied also in non-locative domains, expressing notions such as ‘about’ or ‘concerning’:

**m-p-a.ɪk**            **p-a.t-ére**            **nó-kammîá**  
 1-C-be:PR            C-IT:INCOMPL-talk            on-singing whip

I am going to talk about the singing whip (App. II, 2)

**lən**            **ɪ-l-a**            **k-kw-ókkət.é**        **nə-pól**  
 words            RES-C-COP            3-C-do:COMPL            on-person  
 the things s/he did to the person

A few verbs are obligatorily collocated with a prepositional phrase with **nə-**, for example **ɔtte nán** ‘leave sb./sth. (behind)’. Such verbs have the absolute preposition **nán** when cited alone.

#### *Comparative constructions*

**nə-** is further used in comparative constructions. In such constructions it has an allomorph **na-**. The allomorph **na-** is applied

before independently used modifiers. Adjectives and verbs describing properties can serve as the predicate of comparison.

**əlla**      **w-acɔ́kɔc-cəkət**      **nɔ-lɔ́k**  
 cats                  C-fast-REDUP                  on-dogs

cats are faster than dogs

**ɬok**      **ɬ-a.kíŋa**                  **nɔ-pəllá**  
 dog                  C-become\_tired:INCOMPL                  on-cat

the dog will get more tired than the cat

The allomorph **na-** is used in the next example because of attachment to an independently used modifier (a connexive). The example comes from an (unpublished) Lumun dictionary (Kuku et al. 2006):

**pul**      **ɪ-p-ɔ́parɪ**      **p-ɔ́nó**      **cúré**      **c-ɔ́rík**      **ná-c-ɔ́-púl**      **í-p-ɔ́cura**  
 person      RES-C-female      C-have      buttock      C-big                  on-C-of-person      RES-C-male

a woman has a bigger bottom than a man (lit.: a woman has a bottom that is big on that of a man)

Which allomorph is applied in the next examples is not apparent, since in all three cases ‘on’ precedes a vowel **a** (in the first two examples the allomorph **á** of the persona prefix after a PPC; in the last the pronominal base **a** that forms part of the independent possessor pronoun).

**ɔ-kín**      **ɬ-ɔ́pərɔ́t**<sup>6</sup>      **n-a-nîŋ**  
 PERS-3A                  C-good                  on-PERS-1A

they are better than we (are)

**lɔ́ttí**      **ŋ-kw-ɔ́nó**      **ɪttɪ**      **ŋ-kw-a.ɾəkɔ**      **ɬurít**      **ɬ-ɔ́ppɔ́t**<sup>7</sup>      **n-a-ɬuttô**  
 Lɔ́ttɪ      2-C-have                  that      2-C-eat:INCOMPL      food      C-many                  on-PERS-ɬuttu

Lɔ́ttɪ, you must eat more than ɬuttu

<sup>6</sup> The final **t** of **ɬpərɔ́t** is realized here as **r** (cf. chapter 2.1.1).

<sup>7</sup> The final **t** of **ɬppɔ́t** is realized here as **r** (cf. chapter 2.1.1).

**á-ṭ-aṅ**      **ákk-ṵpərɔ́t**<sup>8</sup>      **n-á-ṭ-in**  
 PROB-C-POSS2      FOC-good      on-PROB-C-POSS1

yours is better than mine (for example ṭök ‘dog’)

Also the verb ɔllɔ́ ‘run’ allows for the comparative construction. The example clearly shows that non-locative use of **nɔ-** does not trigger the Locative-applicative derivation.

**pəlla**      **p-a.llo**      **nɔ-ṭok**  
 cat      C-run:INCOMPL      on-dog

a cat runs (faster) than a dog

### 16.3.3. **tɔ-** ‘up on, up at’

Unlike **r-** and **nɔ-**, **tɔ-** is not used outside of the locative domain. **tɔ-** typically expresses a vertical dimension: something is, or moves towards, a high point or the highest point of something. Compare the following sentences:

**puɽupé**      **p-ɔɽɔ.t**      **nɔ-pirâ**  
 bird      C-land:COMPL      on-tree

the bird has alighted in the tree

**puɽupé**      **p-ɔɽɔ.t**      **tɔ-pirâ**  
 bird      C-land:COMPL      up\_on-tree

the bird has alighted in the top of the tree

In the following examples **nɔ-** and **tɔ-** describe the same situation. The use of **tɔ-** expresses that the location has a certain height, while **nɔ-** gives no information relating to height.

**ṅaṭṭɔkkɔ́l**      **ṅ-á.ík**      **nɔ-cəná**  
 calabash(k.o.)      C-be:PR      on-grinding\_table

the *ṅaṭṭɔkkɔ́l*-calabash is on the grinding table

**ṅaṭṭɔkkɔ́l**      **ṅ-á.ík**      **tɔ-cəná**  
 calabash(k.o.)      C-be:PR      on-grinding\_table

<sup>8</sup> The final **t** of **ákkṵpərɔ́t** is realized here as **r** (cf. chapter 2.1.1).

the *ηαττῶκκῶλ*-calabash is on the grinding table (attention is paid to the grinding table having a certain height)

A human being, unlike a living tree and a grinding table, can assume different positions with respect to the ground. The following sentence can be said when the speaker is in upright position (the frogs will climb onto his head), but also when he is lying on the floor (the frogs are all over him).

**nəllapók**      **n-á.úrət**      **ta-ôn**  
 frogs                      C-crawl\_at:INCOMPL      up\_on.PERS-1

the frogs will crawl on me (different positions of the body possible, the frogs reach the highest point)

The body parts of the upper half of the human body tend to be associated with **tə-** (a few more examples are given in table 102).

**k-kw-ónək.áte**      **tə-cəlâk**  
 3-C-put:PST                      up\_on-neck

s/he put it on his neck

For the position on the back of a donkey, **tə** is used:

**k-kw-árrót.ε**      **tε-εριηká**      (< **tə-** + **ηεριηká**)  
 3-C-cross:COMPL      up\_on-donkey

s/he has mounted the donkey

With motion verbs, **tə-** can also be used in order to express that a distance has to be covered without giving information about height of the location. In the example below it is used irrespective of the location of the church (on the mountain or in the valley):

**m-p-a.ik**      **p-a.εñ**      **tə-man**      **m-ó-kapík**  
 1-C-be:PR                      C-go:INCOMPL      up\_on-house      C-of-God

I am going to the church (the speaker has to cover a distance)

By contrast, when the church is near, **tə-** is used:

<b>m-p-a.ik</b>	<b>p-a.ε̃</b>	<b>ṭ-man</b>	<b>m-ṣ-kapik</b>
1-C-be:PR	C-go:INCOMPL	at-house	C-of-God

I am going to the church (the church is near)

Both sentences above do not provide any information about the ‘path’ of movement, i.e. whether the agent has to climb the mountain, descend, or remain more or less at the same level to reach the church.

Farming fields, apart from some fields directly around the house, are traditionally situated in higher places on the hills, often at considerable distance from people’s houses. Although people have in more recent times started to cultivate in the valleys as well, the traditional high location and the element of distance of the fields is reflected in the combination **ṭpḥn** (< **ṭ-** + **əpḥn** (probably), see also 4.4) which is used regardless of the location of the field with respect to people’s homes on a vertical axis:

<b>ń-ṭ-ú.t</b>	<b>ṭ.pḥn</b>
3A-C-descend:COMPL	at_farming_field

they have descended to the field

**kəpḥn** can also be marked with **ɪ-**. Use of **ɪkkwḥn** (**ɪ-** + the contracted form of **kəpḥn**, see 4.4) as compared to **ṭpḥn** conveys that the farming field is near (perhaps easily visible from the house), whereas the use of **ṭpḥn** conveys that a distance has to be covered.

<b>m-p-a.ik</b>	<b>p-a.ε̃</b>	<b>ɪ-kkwḥn</b>
1-C-be:PR	C-go:INCOMPL	in-farming_field

I am going to the farming field (which is near)

**nəkkwḥn** and **ṭəkkwḥn** also exist, but have specific meanings: **nəkkwḥn** ‘near the field’ and **ṭəkkwḥn** ‘at the side of the field’.

#### 16.3.4. **ṭ-** ‘at’

**ṭ-**, like **ṭ-**, functions only as a locative marker. **ṭ-** can generally best be captured by ‘at’. It collocates with some nouns that share a

notion of being situated in a low(er) place on a vertical axis, but probably rather involves the semantic notion of a non-high location (as opposed to a high location) than of a low-lying location as such. Collocations with some body parts, contrasting **ṭ-** and **t-** are given in the table. **kucúl** ‘back’ occurs in its contracted form.

Table 102 Body parts collocated with **ṭ-** and/or **t-**

	<b>ṭ-</b>	<b>t-</b>
<b>kucúl</b> ‘back’	<b>ṭ-ccúl</b> ‘at the back’	<b>t-ccúl</b> ‘between the shoulders’
<b>carák</b> ‘belly’	<b>ṭ-carák</b> ‘at the belly’	
<b>kuṅko</b> ‘knee’	<b>ṭ-kuṅkô</b> ‘at the knee’	
<b>cákên</b> ‘lower back’	<b>ṭ-cákên</b> ‘at the lower back’	
<b>marró</b> ‘kidneys’	<b>ṭ-marró</b> ‘at the kidneys’	
<b>cələk</b> ‘neck’		<b>t-cələk</b> ‘at the neck’
<b>cərĕṅ</b> ‘chest’		<b>t-cərĕṅ</b> ‘at the chest’

In a few other fixed collocations an element of lower altitude can be recognized. Water tends to be found at lower places, which is probably why going to the well (**tók**) is expressed with **ṭ-**, irrespective of whether one actually goes down or up the mountain in order to reach it.

**m-p-a.ik**

1-c-be:PR

**p-a.éś**

C-go:INCOMPL

**ṭ-rók**

at-waterplace

I am going to the well (no information about going up or down the mountain)

A place where water gathers in a hole in a big stone, on the other hand, is expressed with **t-**: **takkú** (**t-** + **kupú** ‘hole in rock where water gathers’). Such places are typically found higher up in mountains.

Places belonging to **muttô** ‘Arabs’ are indicated with **ṭ-**, reflecting that such places are not on the mountains, but on the low plains in between or further away.

**ɔ-kumáŋ**      **p-á.ík**      **ɬɔ-múttô**  
PERS-Kumaŋ      C-be:PR      at-Arabs

Kumaŋ is in Arab country

Combinations of **ɬɔ-** and words with the persona prefix are restricted to plurals of kinship terms and personal names, and the noun **ɔpattôn** ‘people, folk’. Such expressions refer to the living place or household of a person and his/her family or group, not to the people themselves:

**m-p-a.ɛɔ̃**      **ɬɔ-kakkâ-n**  
1-C-go:INCOMPL      at.PERS-Kakka-PL

I will go to the place of Kakka and her family (the sentence contains no information about the location of Kakka’s house)

**k-kw-ânn-ítta**      **ɬɔ-patt-ôn**  
3-C-NEG-be\_married:DEPINCOMPL      at.PERS-person-PL

she will not be married into the household of those people

**ɬɔ-** cannot be combined with a pronoun, whether singular or plural. Pronominal replacement of **ɬɔ-kakkân** ‘at the place of Kakka and her family’ and **ɬɔ-pattôn** ‘at the house of those people’ in the examples above is by the absolute form of **ɬɔ-**, **ɬán** ‘at, there’ (see 16.6), not by \***ɬɔ-kin** ‘at them’ (or \***ɬakin**).

**ɬɔ** may historically be a formative of the word **ɬəpət** (also **ɬəpút**) ‘outside’. There is also **ɬɔ-ɬəpút** ‘place outside which people use as toilet’<sup>9</sup>.

### 16.3.5. Place names

All indigenous place names contain one of the prepositions **ɪ-**, **nɔ-**, **tɔ-** or **ɬɔ-** as a formative. Places with **tɔ-** are mostly located higher up the mountain, but there are counter-examples. For example, **tó** is a

<sup>9</sup> Especially in the rainy season, when all the land around the house is being used for growing crops, and the pigs, who eat the human excrements, are locked inside, there is a place assigned for use as a toilet, often near a big stone.

place in the valley in Saraf Jamous. Some examples of place names follow here (some were also listed in chapter 4.7); there are many more. The noun involved is not always synchronically attested.

<b>ĩār</b>	lit. ‘In the mud’	< <b>ḡār</b> ‘mud’
<b>ĩcapó</b>	lit. ‘In the ground’	< <b>capó</b> ‘ground’
<b>ṅṅṅṅṅṅ</b>	lit. ‘In the valley’	< <b>ṅṅṅṅṅ</b> ‘valley’
<b>ṅṅṅṅṅṅ</b>	?	< ?
<b>ṅṅṅṅṅṅ</b>	lit. ‘Up the <i>ṅṅṅṅṅṅ</i> -tree’	< <b>ṅṅṅṅṅṅ</b> ‘tree (sp.)’
<b>ṅṅṅṅṅṅ</b>	lit. ‘Up at the free fight’	< <b>camarāḡ</b> ‘free fight’
<b>ṅṅṅṅṅṅ</b>	lit. ‘At <i>ammó</i> ’	< <b>ammó</b> (name of person)
<b>ṅṅṅṅṅṅ</b>	lit. ‘At the waterplace of fish’	< <b>ṅṅṅṅṅṅ</b> ‘waterplace of fish’

**ṅṅ** is part of the name for the place where the spirits of dead people reside. **ṅṅṅṅṅṅ** (or **ṅṅṅṅṅṅ**) is not attested as a noun on its own:

**ṅṅṅṅṅṅ** ‘The place where the spirits of dead people reside’

Place names are not combined with one of the prepositions **ĩ-**, **ṅṅ-**, **ṅṅ-** or **ṅṅ-**. They can only be combined with **ṅṅ-**, expressing ‘from’. Compare:

**m-p-a.ĩk**      **ṅṅṅṅṅṅṅ**  
1-C-be:PR      ṅṅṅṅṅṅṅ

I am in ṅṅṅṅṅṅṅ

**m-p-a.ĩk**      **p-a.ḡḡ**      **ṅṅṅṅṅṅṅ**  
1-C-be:PR      C-go:INCOMPL      ṅṅṅṅṅṅṅ

I am going to ṅṅṅṅṅṅṅ

**m-p-aat**      **ṅṅ-ṅṅṅṅṅṅṅ**  
1-C-come:COMPL      with-ṅṅṅṅṅṅṅ

I come from ṅṅṅṅṅṅṅ (i.e. I have just come from ṅṅṅṅṅṅṅ)

Foreign place names are treated in the same way as indigenous place names and can only be combined with **ṅṅ-**:



**m-p-ənó** **man** **m-a** **m-p-əkəró.t** **kátúkəli**  
 1-C-have house C-be:COP 1-C-trade:COMPL Kadugli

I have a house which I bought in Kadugli

**cárit** **és** **kéccók** **ír-ət-íkkə<sup>10</sup>** **ηópak**  
 12HORT go:DEPINCOMPL market (SUBJ-)12-IT:DEPINCOMPL-drink:DEPINCOMPL beer

let's go to the market and drink beer

**k-kw-áa.t** **η-kárətúm**  
 3-C-come:COMPL with-Khartoum

s/he comes from Khartoum (i.e. s/he has just come from Khartoum)

#### 16.4. Complex prepositions

Fixed collocations of one of the prepositions **ɪ-**, **nə-**, **tə-** and **ʔə-**, a noun (mostly a body part), and the connexive **c-ə-** 'of' function as what I will call 'complex prepositions'. The connexive is proclitic to a noun. A list follows here:

<b>ɪ-cəɹé c-ə-</b>	'under, at the bottom of'	( <b>cəɹé</b> 'buttock')
<b>ɪ-carək c-ə-</b>	'inside'	( <b>carək</b> 'belly, stomach')
<b>ɪ-pəɹət p-ə-</b>	'in the middle of (on a vertical axis)'	( <b>pəɹət</b> 'waist')
<b>ɪ-ká k-ə-</b>	'in the centre part of'	( <b>ka</b> 'body')
<b>ɪ-ʔəɹəkɪt ʔ-ə-</b>	'among, between, in the middle of'	( <b>ʔəɹəkɪt</b> 'space between two things')
<b>ɪ-cəɪk k-ə-</b>	'near (no contact)'	( <b>cəɪk</b> 'place(s)')
<b>nə-kəɹət k-ə-</b>	'at the edge of, at the side of'	( <b>kəɹət</b> 'lip')
<b>tə-kɪt k-ə-</b>	'before, in front of'	( <b>kɪt</b> 'eyes')
<b>ʔə-ccul k-ə-</b>	'behind'	( <b>kucúl</b> 'back')
<b>ʔə-cəkén c-ə-</b>	'behind, under'	( <b>cəkén</b> 'lower back')
<b>ʔə-carək c-ə-</b>	'in front of'	( <b>carək</b> 'belly, stomach')

<sup>10</sup> The subjunctive particle **â-** is underlyingly present, as can be seen from the high tone on the 12 pronoun clitic.

The formative **ṙá** in the following complex prepositions is probably related to **cá** ‘head’:

**ṙa-w-ṙ-**, **ṙṙ-** ‘on top of, over, above of’  
**ṙa-w-ṙ-**, **ṙṙ-** ‘on top of, over, above of (element of height expressed)’

All body parts in the complex prepositions listed above are singulars, except **kít** ‘eyes’. However, prepositions can in principle also be formed with the plurals of these nouns, namely when referring to several locations:

**ṙ-mṙṙé**      **m-ṙ-mṙṙṙ**  
 in-buttocks      C-of-mountains

at places at the bottom of the mountains

**m-p-ṙká.t**    **cik**    **a-n-ṙllṙt**                      **ṙ-lṙṙkít**                      **l-ṙ-kəmán**  
 1-C-be:COMPL    VREF    CONJ-1-run\_at:DEPINCOMPL    in-spaces\_in\_between    C-of-houses

I was running between the houses (passing through spaces between several houses)

By contrast, the next sentence has the complex preposition with the singular noun **ṙṙṙkít**.

**m-p-ṙká.t**    **ṙ-ṙṙṙkít**                      **ṙ-ṙ-ṙl**  
 1-C-be:COMPL    in-space\_in\_between    C-of-people

I was between the people

A special case of a complex preposition is **ṙṙṙṙán** ‘behind, beyond’ which probably contains the absolute preposition **ṙán** ‘at’ as a formative. **ṙṙṙṙán** is unusual as a complex preposition because it immediately precedes the noun, without a connexive:

**ṙṙkṙ**      **ṙṙṙṙán**      **páa**  
 hide:IMP    behind      vine

hide behind the vine!

16.5. **ń-** ‘with, by, (away) from’

**ń-** ‘with, by, (away) from’ can mark the instrumental role of the noun, the comitative role, and the agent role in a passive construction. In combination with the verb ‘be’ it can express ‘have’. With locative constituents **ń-** functions as an ablative marker, expressing ‘from, away from’.

*Examples of **ń-** marking the instrumental role of the noun:*

**m-p-a.ccíe**      **ṭik**      **ḡ-kurúṭta**  
 1-C-ignite:INCOMPL      fire      with-rubbing\_stick

I will make a fire with a rubbing stick

**ɔ-paṭṭi**      **p-ɔkkottáṭ.ε**      **ḡ-kəṛṭṭāṅ**  
 PERS-person      C-be\_killed:COMPL      with-knife

the person was killed with a knife

*Examples of **ń-** marking the comitative role of the noun:*

**k-kw-áa.t**      **m-pól**      **p-εn**  
 3-C-come:COMPL      with-person      C-DEM

s/he has come with that person (i.e. the person that we talked about)

**... a-n-ɔṅkat**      **l-ḷicək**      **cik-ipəriaṅ**  
 CONJ-1-go:DEPPRFV      with-goats      LOC-ipəriaṅ

... and I went with the goats to ipəriaṅ

**k-kw-áa.t**      **m-máṭṭák**      **m-én**  
 3-C-come:COMPL      with-calabash(k.o.)      C-POSS3A

s/he has arrived with their plates

*Example of ‘be’ + **ń-** expressing ‘have’:*

**ń-** cannot be attached to a (pro)noun with the persona prefix (**ɔ-**). Such (pro)nouns in a comitative role need an entirely different construction, which makes no use of a prepositional element (see chapter 6.7).

*ń-* marking the agent role in a passive construction

*ń-* can mark non-animate and animate agents in passive constructions:

**ɔ-paṭṭi**      **p-ɔkkottáṭ.ɛ**      **n-ṭólléṛák**      **tɔ.pɔn**  
 PERS-person      C-be\_killed:COMPL      with-thunder\_and\_lightening      at\_farming\_field  
 the person was killed by lightening in the farming field

**ɔ-paṭṭi**      **p-ɔkkottáṭ.ɛ**      **n-ṭök**  
 PERS-person      C-be\_killed:COMPL      with-dog  
 the person was killed by a dog

**k-kw-ɔkkottáṭ.ɛ**      **ɲ-cuṭṭô**  
 3-C-be\_killed:COMPL      with-Arab\_person  
 s/he was killed by the Arab

Agents in a passive construction that have the persona prefix (ɔ-) use a construction with the absolute counterpart of *ń-*, **ɲɲm**. Examples are provided in 14.4 and 16.6.

*ń-* as ablative '(away) from'

*ń-* preceding a locative phrase takes up ablative meaning. *ń-* can precede one of the locative prepositional proclitics, giving the following forms. As mentioned earlier in this chapter, the formative **nti ɪ-** in **nti ɪ-** is possibly an older form of the PPC **ɪ-**.

**nti ɪ-** (< *ń-* + **ɪ-**)  
**n-nɔ-** (< *ń-* + **nɔ-**)  
**n-tɔ-** (< *ń-* + **tɔ-**)  
**n-ṭɔ-** (< *ń-* + **ṭɔ-**)

Some examples:

**ŋ-kw-a.ná lɔn n.tɪ ɪ-cá**  
 2-C-bring:INCOMPL words from in-head

you will bring words from in your head (i.e. you must come up with an idea)

**k-kw-á.kwɔ lɔn í-l-ókiʔak n-nɔ-ká**  
 3-C-blow:INCOMPL words RES-C-bad with-on-body

s/he will blow the bad things away from the body

**ɔll.ɔ n-t-a-ôn**  
 run:IMP with-up\_on-PERS-1

get away from me! (the suggestion is that the speaker is lying down and the addressee is on top of him/her)

**m-p-aa.t n-ʔ-miʔok p-áʔt-óŋáeɔ**  
 1-C-come:COMPL with\_at-bush C-ITVEN:COMPL-urinate:DEPINCOMPL

I come from the bush, having gone to urinate

**ntɪ ɪ-** can be used in a superlative expression:

**ʔupəʔu ʔ-ó-ʔɔcurák ʔ-úkwɪʔ n.tɪ ɪ-lupəʔu áppik tɔrrô**  
 valley C-of-ʔɔcurák C-long from in-valleys all Lumun\_country

the valley of ʔɔcurák is the deepest of all valleys in the Lumun area

**ń-** can also precede complex prepositions. Some examples:

**n.tɪ ɪ-ccík kɔ-** from near  
**n-nɔ-kuʔút kɔ-** from at the edge of, at the side of  
**n-tɔ-kɪʔ kɔ-** from before, in front of  
**n-ʔ-cəkén cɔ-** from behind, under

**ɔll.ɔ n.tɪ ɪ-ccík k-óŋ**  
 run:IMP from in-place C-POSS3

get away from him/her! (the addressee is near the person, not on him/her)

Words that inherently denote a place, such as the question word ‘where’, place deictics and place names can be directly preceded by ablative **ń-**, as can the noun **cík** ‘place(s)’:

**ŋ-kw-aa.t**      **ŋ-kárə̀ʔa**  
 2-C-come:COMPL      with-where

**m-p-aa.t**      **ŋ-kárə̀ttôm**  
 1-C-come:COMPL      with-Khartoum

where have you come from? I have come from Khartoum

**ɲ-cínâŋ**  
 with-there\_where\_you\_are

from there, *also*: from then onwards

**ana**      **w-íʔt**      **ul**      **ɲ-cík**      **áppík**  
 and      PRO.C-find:INCOMPL      people      with-place      all

and they (the people) will find people from everywhere (lit. from all places)

**cík-** as pro-clitic pragmatic marker of a locative phrase (see chapter 15.3) can also be preceded by **ń-**:

**m-p-aa.t**      **ɲ-cík-kéccôk**  
 1-C-come:COMPL      with-LOC-market

I come from the very market

**m-p-ícaṭ.ɛ**      **mec̣c̣m**      **ɲ-cík-i-c̣iŋḳî**  
 1-C-lie\_down:COMPL      yesterday      with-LOC-in-sun

I slept early yesterday (lit.: I slept yesterday from in the sun (but not necessarily when it was still light))

**ń-** is furthermore a formative of the lexical item **ɲcík** which tonally differs from a combination of **ń-** + **cík** (or **ń-** + **cík**), because **ɲ**, as the initial mora of this low-toned item, can receive a high tone from a preceding element. **ń-** as a PPC is not able to receive a high tone from a preceding element. Some examples with **ɲcík** can be found in 15.4.

## 16.6. Absolute prepositions

All PPCs have absolute counterparts, which I call absolute prepositions. This is the list:

<b>i-</b>	>	<b>tít</b>	‘in’
<b>nɔ-</b>	>	<b>nán</b>	‘on, at’
<b>tɔ-</b>	>	<b>tán</b>	‘up there’ (‘up on, up at’)
<b>ɬɔ-</b>	>	<b>ɬán</b>	‘there’
<b>ń-</b>	>	<b>ɲɲm</b>	‘with, by’

**ɲɲm** is a tonally irregular item. In isolation it is realized as an element with a rising tone (i.e. without downglide), but in context initial **ɲ** sometimes receives a high tone from a preceding element, which is not compatible with a rising tone. **ɲɲm** seems to fluctuate between an element with rising tone and with low tone. I therefore represent it without tones.

The absolute prepositions all have a formative relating to the corresponding PPC. **nán**, **tán** and **ɬán** contain a same formative **an** or probably rather **n**, which may well be the same element as occurs in the absolute connexive **C-ên** ‘of’. **ɲɲm** contains the formative **ɲm** ‘what’, which is also part of the question word **ɲín-ɬa** ‘what’ and the related words **akkáin/akáin**, **akkáinɬa/akáinɬa** ‘why’ (lit. ‘that what’, see 20.1.2).

The absolute prepositions do not include pronominal reference to their complement, which appears from their ability to co-occur with their complement in the same clause. Constructions where this happens are presented in 16.6.1.

There are, however, also situations in which the absolute prepositions can be translated as preposition and pronoun with non-human reference (‘in it’, ‘on it’, etc.). This is not surprising since, in Lumun, non-humans other than subjects cannot be pronominally referenced. In such cases the absolute preposition relates to PPC + non-human noun in the same way as PPC + pronoun to a human noun.

#### 16.6.1. Syntactic constructions involving the absolute prepositions

*Verbs with prepositional phrase*

Some verbs must be used together with a prepositional phrase (either a phrase with **ɪ-** or a phrase with **ɴɔ-**). In the absence of such a constituent an absolute preposition is used. Examples follow here with **ɔ́ɔ́ɔ́ɔ́ɔ́** (**tít**) ‘meet sb.’ (which must be combined with a prepositional phrase when the subject has singular reference, see chapter 14.5) and **ɔ́ɔ́ɔ́ɔ́ɔ́ ɴáɴ** ‘leave behind’.

**ɪkɔ́**      **á-ɪ-ɔ́ɔ́ɔ́ɔ́**                                      **ɪ-a-ɴɴáɴ**  
 go:IMP    SUBJ-(2-)IT:DEPINCOMPL-meet:DEPINCOMPL    in-PERS-mother  
 go to meet the mother!

**ɪkɔ́**      **á-ɪ-ɔ́ɔ́ɔ́ɔ́**                                      **ɪ-a-âk**  
 go:IMP    SUBJ-(2-)IT:DEPINCOMPL-meet:DEPINCOMPL    in-PERS-3  
 go to meet her!

**ɪkɔ́**      **á-ɪ-ɔ́ɔ́ɔ́ɔ́**                                      **ɪ-ɪjɔ́k**  
 go:IMP    SUBJ-(2-)IT:DEPINCOMPL-meet:DEPINCOMPL    in-goats  
 go to meet the goats!

**ɪkɔ́**      **á-ɪ-ɔ́ɔ́ɔ́ɔ́**                                      **tít**  
 go:IMP    SUBJ-(2-)IT:DEPINCOMPL-meet:DEPINCOMPL    in:ABS  
 go and meet them (i.e. the goats, cannot refer to people)

**\*ɪkɔ́**      **á-ɪ-ɔ́ɔ́ɔ́ɔ́**  
 go:IMP    SUBJ-(2-)IT:DEPINCOMPL-meet:DEPINCOMPL

**ɔ́ɔ́ɔ́ɔ́ɔ́**      **ɴ-a-kukkô**  
 leave:IMP    on-PERS-Kukku  
 leave Kukku behind!

**ɔ́ɔ́ɔ́ɔ́ɔ́**      **ɴ-a-âk**  
 leave:IMP    on-PERS-3  
 leave him/her behind!

**ɔ́ɔ́ɔ́ɔ́ɔ́**      **ɴɔ-ɪ-ŭk**  
 leave:IMP    on-dog  
 leave the dog behind!



**ɔt̪te nán**  
leave:IMP on:ABS

leave it behind! (i.e. the dog, or other things or animals, but not people)

\***ɔt̪te**  
leave:IMP

**ɔt̪tɔt tít** ‘answer (to it)’ is a verb that is commonly used with absolute preposition, since what is answered (the question) is typically stated, in one way or another, in the preceding discourse. For example:

**ámamá m-p-ípíttɔt.é nón lón ɔ-nɔn t-ǎnn-ɔt̪tɔt-in tít**  
if 1-C-ask:COMPL O2A words PERS-2A C-NEG-answer:DEPINCOMPL-O1 in:ABS

when I ask you something, you will not answer me

**ɔpərəttakɔt tít** ‘be surprised, be amazed’ (related to **ɔpərəttakɔ** ‘turn oneself’) cannot occur without **tít**, at least not without acquiring a different meaning. **tít** cannot be replaced by **ɪ-** + noun (phrase). If what people are surprised or amazed about is present in the clause, this constituent is marked by **nɔ-**:

**ɔk.kw.í-ón í-t-ɔccɪkɔt-ɔk t-ɔká.t cɪk**  
the\_one-PL RES-C-hear:COMPL-O3 C-be:COMPL VREF  
**a-kín ɔpərəttakɔt tít nɔ-t-ma cɪk t-óŋ**  
CONJ.PERS-3A turn\_oneself:DEPINCOMPL in:ABS on-NOM-know VREF C-POSS3

those who heard him were amazed at his wisdom (Luke 2:47)

### *Non-human complements*

A non-human complement of a PPC is not pronominally expressed. In such cases an absolute preposition is used. Examples:

**... a-kín ɪl.at ɪ-kəpa a-kín ɔnókke.kat nɔ-tɪk**  
CONJ.PERS-3A divide\_in\_two:DEPPRFV in-meat CONJ.PERS-3A put:DEPPRFV on-fire

**kurek-kurek m-marru tít**  
each-REDUP with-kidneys in:ABS

... they divided the meat in two and they each put (his part of the meat) on the fire, with the kidneys in (it) (fr. written story)

... a-kín ónék.at túttórúk á-kín óíkat η.ηm cι. tán  
 CONJ.PERS-3A take:DEPPRFV pig CONJ.PERS-3A go:DEPPRFV with:ABS far

... and they took the pig and they went far away with (it) (fr. written story)

The understood complement can be an afore-mentioned noun with non-human reference, but also a whole clause, as in the next case:

ana túóli t-ommá.t nán  
 and hyena C-not\_know:COMPL on:ABS

and the hyena was not aware of (it) (i.e. of the lamb being near the opening in the fence)

tə ‘up at’ and tə ‘at’ always refer to a place. Their absolute counterparts (tán and tán) function as locative adverbs, ‘(up) there’ and ‘there’ respectively. Compare:

n-t-əká.t tərəmatón-ı  
 2A-C-be:COMPL Tərəmatón-Q

ın-t-əká.t tán máı  
 1A-C-be:COMPL up\_on:ABS a\_short\_while\_ago

have you been in Tərəmatón? we have just been there some hours ago

n-t-əká.t tə-kakká-n-ı  
 2A-C-be:COMPL at.PERS-Kakka-PL-Q

ın-t-əká.t tán máı  
 1A-C-be:COMPL at:ABS a\_short\_while\_ago

have you been at Kakka’s place? we have just been there some hours ago

n-əkkwe ı-attâl  
 2A-beat:DEPINCOMPL in-palms\_of\_hands

n-əpákkət tán  
 2A-return:DEPINCOMPL at:ABS

clap your hands! do it again! (lit.: go back there!)

Absolute prepositions are further used in grammatical constructions in which PPC and noun are separated. This is the case in passive constructions with subjects that, in a corresponding active

construction, are marked with a PPC. It is also found in constructions in which a prepositional phrase is relativized.

*Absolute prepositions in passive constructions*

In the first example below, with the passive verb **úretta** ‘be forgotten’, the complement (‘these things’) of **nə** ‘on, at’ is present in the clause but, as the subject, stands before the verb. Functioning as subject, it cannot be marked by **nə-**. The verb, however, still requires the prepositional phrase, which is realized as **nán**. A corresponding active sentence is given in the second example.

<b>lən</b>	<b>əl-l-ɪ</b>	<b>l-a.ka</b>	<b>l-úretta</b>	<b>nán</b>
words	DEM-C-NEARSP	C-be:INCOMPL	C-be_forgotten:INCOMPL	on:ABS

these things will be forgotten

<b>ul</b>	<b>w-úre</b>	<b>nə-lón</b>	<b>əl-l-í</b>
people	C-forget:INCOMPL	on-words	DEM-C-NEARSP

the people will forget these things

The next example has **wək** ‘shoes’ in instrument role, first as subject in a passive construction with **ŋŋm**, then in a corresponding active sentence. Some further examples of this construction can be found in chapter 14.4 on Passives.

<b>wək</b>	<b>en-n-ɪ</b>	<b>w-a.llóra</b>	<b>ŋ.ŋm</b>
shoes	DEM-C-NEARSP	C-be_run:INCOMPL	with:ABS

these shoes are for running (lit.: these shoes are run with)

<b>ul</b>	<b>w-a.llə</b>	<b>n-nók</b>	<b>én-n-í</b>
people	C-run:INCOMPL	with-shoes	DEM-C-NEARSP

people run with these shoes (people use these shoes for running), *also*:  
people will run away with these shoes (a warning that they will steal them)

It was shown earlier in this chapter that **ń-** can mark common nouns with agent role in passive constructions. Agents, however, with the persona prefix, i.e. kinship terms, personal names and personal

pronouns, need a construction with **ἡἡἡἡ**. In such constructions the agent (pro)noun comes after the verb and is then followed by **ἡἡἡἡ**.

**k-kw-ḵkkottáṭ.ε**      **ḵ-kukkó**      **ἡ.ἡἡἡ**  
 3-C-be\_killed:COMPL      PERS-Kukku      with:ABS  
 s/he was killed by Kukku

**k-kw-ḵkkottáṭ-ḵk**      **ἡ.ἡἡἡ**  
 3-C-be\_killed:COMPL-O3      with:ABS  
 s/he was killed by him / her

**ἡἡἡἡ** does not always follow the agent immediately:

**mén**      **m-á.ík**      **m-á.cúraṭ-ḵk**      **nḵ-kwεε**      **ἡ.ἡἡἡ**  
 palm\_fruits    C-be:PR      C-be\_impaled\_at:INCOMPL-O3    on-pointed\_stick    with:ABS  
 the palm fruits are being impaled on a stick by him/her

Human agents lacking the persona prefix allow for both the construction with **ḵ-** and the construction with **ἡἡἡἡ**:

**k-kw-ḵkkottáṭ.ε**      **ḵ-cuṭṭó**  
 3-C-be\_killed:COMPL      with-Arab\_person  
 s/he was killed by the Arab

**k-kw-ḵkkottáṭ.ε**      **cuṭṭó**      **ἡ.ἡἡἡ**  
 3-C-be\_killed:COMPL      Arab\_person      with:ABS  
 s/he was killed by the Arab

A comparable construction with an instrument after the verb followed by **ἡἡἡἡ** was initially rejected, but on a later occasion considered possible, though not preferred. The construction in the second example, with **ḵ-**, is the common expression.

**\*/?k-kw-ḵkkottáṭ.ε**      **kεṭṭaṅ**      **k-ḵ-kukkó**      **ἡ.ἡἡἡ**  
 3-C-be\_killed:COMPL      knife      C-of.PERS-Kukku      with:ABS  
 s/he was killed with Kukku's knife

**k-kw-ókkottá.t.ε**    **η-kəɽittəŋ**    **k-ó-kukkô**  
 3-C-be\_killed:COMPL    with-knife    C-of.PERS-Kukku  
 s/he was killed with Kukku's knife

*Absolute prepositions in reciprocal constructions*

Reciprocal formation is another operation that can lead to the use of an absolute preposition, since reciprocals can be based on verbs that realize the other participant in the event in a prepositional phrase. Compare the following clauses:

**ámmá**    **m-p-ápó.t**    **ná-átərəpé ...**  
 if    1-C-grab:INCOMPL    on-rabbit  
 when I grab the rabbit ...

**ámmá**    **ó-nin**    **t-áp.árs.t**    **nán**    **ó-nin**    **átərəpé ...**  
 if    PERS-1A    C-grab.REC1:INCOMPL    on:ABS    PERS-1A    PERS.rabbit  
 when the rabbit and I grab each other ... (when we grab each other, I and the rabbit ...)

Some further examples were given in chapter 14.5 (on Reciprocals).

*Relativized prepositional phrases*

An absolute preposition is used in relativized prepositional phrases, irrespective of whether the head is human or not:

**ɔ-kukkó**    **í-k-á**    **m-p-ócorót.é**    **tít**  
 PERS-Kukku    RES-C-COP    1-C-meet:COMPL    in:ABS  
 Kukku, whom I met with in the way, ...

**caɽɪ**    **ɪ-c-a**    **k-kw-á.t-ɔnɔ**    **nán**  
 day    RES-C-COP    3-C-IT:INCOMPL-build:DEPINCOMPL    on:ABS  
 the day on which he will go and build

**aɽəpɔ**    **ɪ-ónta**    **η.ɪm**  
 things    RES-(C-)be\_built:INCOMPL    with:ABS  
 building materials (lit.: things which are built with)

The question word ‘where’ and place names, which can be used in combination with **ń-**, are relativized with **ńá** ‘where’ (11.3). Thus:

**k-kw-ákənn-ɾɛ**      **na**      **k-kw-áa.t**      **ń.ɲɪm**  
 3-C-NEG-say:DEPCOMPL      where:REL      3-C-come:COMPL      with:ABS

s/he did not say where s/he came from

**ɬəumâɲ**      **na**      **k-kw-áa.t**      **ń.ɲɪm**  
 ɬəumâɲ      where:REL      3-C-come:COMPL      with:ABS

ɬəumâɲ, where s/he came from

*In constructions with a location as subject and ‘have’*

Preposition and noun are also separated in constructions with **C-ɔnô** ‘have’ in a locative interpretation. The prepositional phrase cannot function as subject, so that the PPC occurs in its absolute form. Compare the first with locative ‘be’ and a locative phrase with the second example:

**ceɬəna**      **C-ɔ-ɬəɾóma**      **C-a.ɪk**      **nɔ-kurrôɲ**  
 ornamental\_tail      C-of-ram      C-be:PR      on-stick

the ram’s tail is on the stick

**kurrôɲ**      **k-ɔnó**      **ceɬəna**      **C-ɔ-ɬəɾóma**      **nán**  
 stick      C-have      ornamental\_tail      C-of-ram      on:ABS

the stick has a ram’s tail on it

Two absolute prepositions figure in the next sentence. The complement of **ɬɔ** (realized as **ɬán**) is the place name **ɬaɾɔ**, which functions as the subject of a clause with ‘have’. The complement of **ń-** (realized as **ɲɲɪm**) are the three big roads:

**ɬáɾó**      **ɬ-ɔnó**      **aɬər**      **w-əɾapóruk**      **ɪ-íttí~íttík**  
 ɬaɾɔ      C-have      roads      C-three      RES-(C-)PLR~(C-)big

**ɪ-íɾɪkako**      **ɲ.ɲɪm**      **ɬán**  
 RES(-C)-be\_entered:INCOMPL      with:ABS      at:ABS

ɬaɾɔ has three big roads for entering it (with which it can be entered into)

16.6.2. Absolute prepositions preceded by **ń-**

The absolute prepositions can be preceded by **ń-**:

<b>n-tít</b>	‘from, out of’
<b>n-nán</b>	‘away from’
<b>n-tán</b>	‘away from up’, ‘fully’, ‘towards the deictic centre’
<b>n-ťán</b>	‘away from’

Some examples:

<b>eṭ-in</b>	<b>aún</b>	<b>cəné</b>	<b>á-n-ɔṭó</b>	<b>ɲəre</b>	<b>n.tít</b>
give:IMP-01	bees	here	SUBJ-1-pull:DEPINCOMPL	honey	from:ABS

Give me the honeycombs here, so that I suck the honey out of them (App. IV, 90)

<b>m-p-aá.t</b>	<b>n.tít</b>
1-C-come:COMPL	from:ABS

I have just now arrived

<b>appentíná</b>	<b>w-árəťá</b>
groundnuts	C-where

<b>ɔ-cəccé</b>	<b>p-á.ík</b>	<b>p-á.cáɽɔ</b>	<b>áɽɔl</b>	<b>n-nán</b>
PERS-Cəccé	C-be:PR	C-peel:INCOMPL	shells	with-on:ABS

where are the groundnuts? Cəccé is peeling them (lit.: peeling the shells from on)

<b>ɔl</b>	<b>w-a.nókɔ</b>	<b>áɽəpú</b>	<b>á-kín</b>	<b>ókétte</b>
people	C-take:INCOMPL	things	SUBJ.PERS-3A	trade.PLUR:DEPINCOMPL

<b>á-kín</b>	<b>ɪt</b>	<b>ákuccɨ</b>	<b>n-nán</b>
SUBJ.PERS-3A	find:DEPINCOMPL	money	with-on:ABS

the people carry things in order to sell them, so that they make money from them

<b>puɽupé</b>	<b>p-ɔká.t</b>	<b>tɔ-pirá</b>
bird	C-be:COMPL	up_on-tree

<b>məná</b>	<b>á-p-írɪ.at</b>	<b>n-tán</b>
until	CONJ-C-jump:DEPPRFV	with-up_on:ABS

the bird was in the tree top, then it flew away from there

**n-tán** does not always have an ablative interpretation. It can express ‘fully’, ‘to the bottom’, as in the following sentence:

**ᶏkk.ᶏ**            **n-tán**  
 drink:IMP            with-up\_on:ABS

drink it all! (i.e. drink it to the bottom, finish it!)

It can also express rather the opposite from ablative meaning: ‘towards, facing the deictic centre’, as in the following example. Note that unlike in the second example, the Locative-applicative derivation is not used:

**ᶏll.ᵛ**    **n-tán**  
 run:IMP    with-up\_on:ABS

run to me/here!

**ᶏllᵛᵗ.e**    **n-a-ôn**  
 run\_at:IMP    on-PERS-1

run to me!

In the following sentence, **ntán** expresses ‘towards the deictic centre’. It is as if the storyteller positions himself up in the tree, so that the tortoise climbed towards him:

**akka**    **k-kw-ᶏkᵛᵗᵗ.é**    **n-tán**            **a-kəᵗᶏl**    **ᶏᵗ-íat**  
 that      3-C-move\_up:COMPL    with-up\_on:ABS    CONJ-tortoise    IT:DEPINCOMPL-find:DEPPRFV

**ittᵛ**    **mén**            **m-ellâ**  
 that      palm\_fruits    C-be\_absent:INCOMPL

when he<sub>i</sub> had climbed up, the tortoise<sub>i</sub> found there were no palm fruits (anymore) (App. IV, 118-119)

**ntán** in the sense of ‘towards the deictic centre’ has become a fixed part of the irregular Dependent Incomplete and Incomplete variants of the verb **ə** ‘come’, respectively **ânᵗán** and **C-ânᵗán**.



16.7. Attachment of **ń-** to an argument that is not its complement

Interestingly, in certain constructions **ń-** ‘with, by, (away) from’, can be attached to a noun that is not its complement. This happens when the complement is dislocated and an object argument follows the verb. **ń-** can attach to this object argument. In the first example below the complement is dislocated as the head of a relative clause, in the second as subject of a passive clause, and in the third as the head of a predicative adjectival phrase with a passive verb.

**lɔn**    **ɪ-l-a-kín**        **ʒɔ́kkɪɛ**                **ɲ-ɲókól**  
words    RES-C-COP.PERS-3A    make\_grow:DEPINCOMPL    with-children

**pápénnan**    **ittĩ ...**  
well                            that

things with which they bring up the children in a good way are ...

**kəɽɿttan**    **éŋ-k-í**        **k-ɔ́-ɿ-ɔkɛccetta**    **n-ɿún**  
knife            DEM-C-NEARSP    C-of-NOM-be\_cut            with-onion

this knife is for cutting onions (lit.: this knife is of being cut with onions)

**kəɽɿttan**    **é.ŋk.í**        **k-á.kɛccetta**            **n-ɿún**  
knife            DEM-C-NEARSP    C-be\_cut:INCOMPL            with-onion

this knife is for cutting onions / this knife is for onions to be cut with. (lit.: this knife will be cut with onions)

The construction is also possible when the instrument is the object of the preceding clause:

**pɔl**            **p-óm̩mɔ**            **korín**  
person        C-take:INCOMPL        awl

**á-kw-ɔkurɔ**            **ɲ-cakkón**        **lɔn**    **l-ɔpáttərə́**  
SUBJ-3-engrave:DEPINCOMPL    with-calabash(k.o.)    words    C-very\_good

the person takes an awl, in order to engrave the calabash with it very nicely (App. III, 4-5)

Alternatively, constructions with **ŋŋm** are possible:

**lɔn**      **ɪ-l-a-kín**      **ʒɔ́kkɪɛ**      **ɲókól**  
 words      RES-C-COP.PERS-3A      make\_grow:DEPINCOMPL      children

**pápénnanɔ**      **ɲ.ɲm**      **ittĩ ...**  
 well      with:ABS      that

things with which they bring up the children well are ...

**kəɽɨttaŋ**      **éɲ-k-í**      **k-á.kéccetta**      **tún**      **ɲ.ɲm**  
 knife      DEM-C-NEARSP      C-be\_cut:INCOMPL      onion      with:ABS

this knife is for cutting onions / this knife is for onions to be cut with (lit.: this knife will be cut with onions)

The same type of construction is not possible with any of the other absolute prepositions. The first sentence, with **tít**, is fine, the second was rejected.

**pərit**      **p-íttat**      **mɨl**      **tít**  
 granary      C-be\_put:INCOMPL      sorghum      in:ABS

the granary is for storing sorghum (lit.: the granary is stored sorghum in)

**\*pərit**      **p-íttat**      **ɪ-mɨl**  
 granary      C-be\_put:INCOMPL      in-sorghum

the granary is for storing sorghum (lit.: the granary is stored sorghum in)

When the arguments are reversed, a grammatical sentence results:

**mɨl**      **m-íttat**      **ɪ-ttĩt**  
 sorghum      C-be\_put:INCOMPL      in-granary

the sorghum is put in the granary

## 17. Adverbs, discourse markers and interjections

In this chapter I list adverbs and adverbial expressions of time and place, manner adverbs and adverbs with miscellaneous semantics, and discuss their morphological structure. I also present enclitic discourse markers and a few interjections.

### 17.1. Adverbs

#### *Morphology*

Adverbs can be morphologically simple or complex. Typical adverbial morphology consists of an initial vowel **ɪ** or **a** followed by a geminated consonant: **ɪCC**, **aCC**. In some cases an adverb and an adjective are formed on the basis of the same root, for example:

<b>ɪk-kíʦak</b> ‘badly’	<b>ɕ-ɔkíʦak</b> ‘bad’
<b>ɪʦ-ʦíʦɔt</b> ‘tastily, with flavour’	<b>ɕ-ɔʦíʦɔt</b> ‘tasty’

The shared root of these items is preceded in the adjective by a concord and the vowel **ɔ**, while in the adverb the root-initial consonant is geminated and preceded by **ɪ**. Note in the second case that the H-tone on the root part has changed position. Another example is the adverb **ɪppáppat** ‘lightly, easily’, which relates in the same way to the Completive verb **ɕ-ɔppappât** (< **ɔpáppa** ‘be(come) light’). **ɕ-ɔppappât** can be used as a modifier ‘light, easy’.

In other cases there is no root or stem that is attested elsewhere as well. **a** + gemination of the first consonant is probably a formative of **accuŋkõr** ‘straight ahead’, but **\*cuŋkõr** does not exist as a word on its own or as a formative of another word. Some further examples which do not contain a root or stem that occurs elsewhere as well include:

<b>ɪppu, -ppu</b>	‘really, seriously (intensifying)’
<b>aŋŋəna</b>	‘very, very much’
<b>aŋŋəriŋ</b>	‘completely’

Another morphological feature found in adverbs is reduplication. Adverbs with full reduplication sometimes have an inserted schwa followed by a geminated consonant, in order to retain the same sound, for example **təŋ-əttəŋ** ‘tightly’.

A case of partial reduplication and gemination is **ŋəʃɔllət** ‘the day after tomorrow’. Recall that **ʃ** does not geminate as **ʃʃ** but, often, as **ll** (see examples in 13.1). Recall also that the process of partial reduplication and gemination was also found in Pluractional verbs (see 13.1) and in adjectives (see 10.2.7). An example of partial reduplication and gemination in a related adverb and adjective is **ik-kítəttak** ‘very badly’ vs. **c-cəkítəttak** ‘very bad’.

In two cases of adverbs that are related through reduplication, the unreduplicated form contains an adverbial formative comparable to **ɪ** + geminated consonant, namely **a** + geminated consonant:

**aʃ-təman** ‘quickly’      **təman-təman** ‘quickly’  
**ac-cəkət** ‘quickly’      **cəkəc-cəkət** ‘quickly’

The tones of an adverb with (partial) reduplication can be different from what is expected on the basis of the composing parts, and in some cases of (partial) reduplication a non-reduplicated form is lacking.

(Partial) reduplication in adverbs can express:

- intensification (**mâ** ‘now’, **má-ínâ** ‘just now’)
- repetition (**cɪŋkɪ-cɪŋkɪ** ‘every day’, lit.: ‘sun-sun’)
- duration (**nəcɪŋkɪ-nəcɪŋkɪ** ‘the whole day’ (lit. ‘on sun-on sun’))

Nouns or noun phrases preceded by a prepositional proclitic (PPC), as well as the absolute prepositions, can function adverbially. Some nouns can function adverbially without PPC, and some can function adverbially with as well as without PPC. In some cases, what is historically —probably— a PPC has become a fixed part of the adverb.

## 17.1.1. Adverbs and adverbial expressions of time

Deictic time adverbs and adverbial expressions include the following:

<b>mâ</b>	‘now’
<b>má-mâ</b>	‘just now’ (REDUP)
<b>m-énní</b>	‘today, now’ (probably < <b>mâ</b> ‘now’ + <b>énní</b> ‘this’)
<b>ácca</b>	‘now’ (< Sudanese Arabic <i>hassa</i> <sup>c</sup> )
<b>mæccín</b>	‘yesterday’
<b>mamân</b>	‘this morning’
<b>mæle-mæla</b>	‘just a moment ago’ (REDUP)
<b>maí</b>	‘just recently’
<b>mεɾcēn</b>	‘some time ago’
<b>maʒt</b>	‘a long time ago’
<b>ɣərrət</b>	‘tomorrow, the next morning’
<b>ɣət-ól-ət</b>	‘the day after tomorrow’ (P.REDUP + G)
<b>mæccin ɣərrət</b>	‘yesterday morning’

Some further time adverbials:

<b>pa-p-ətté-ík / pa-p-ətté-ík</b>	during a short time, after a while (< <b>paɾə pətté cik / paɾə pətté cik</b> lit.: thing short)
<b>kəppák</b>	during a short time
<b>púccúk</b>	(continuing) for some time

**púccúk** is often used in combination with **mənə** expressing ‘until’, as in the following example:

<b>a-kw-ʒtəkka.kat</b>	<b>ménik</b>	<b>púccúk</b>	<b>mónó</b>
CONJ-3-become:DEPPRFV	like_this	for_some_time	until
<b>a-kw-ʒtəkka.kat</b>	<b>p-makó.t</b>	<b>ɣ-ɣóɾe</b>	<b>pəɾin</b>
CONJ-3-become:DEPPRFV	C-be_known:COMPL	with-laziness	finally

he became like this continuing for some time (i.e. Aməntacı continued to be like this for some time) until he finally became known for his laziness (App. 1, 30-31)

Time adverbials can be formed with the nouns **caṛí** ‘day’ and **ṭuput** ‘year’, as well as with nouns for parts of the day. These nouns can be modified by a demonstrative or a connexive construction. In some cases a PPC must be used, in others a PPC is optional, in again others the noun lacks a PPC when used adverbially. Examples:

<b>(nə-)caṛí cǝ-meccín</b>	‘the day before yesterday (lit.: (on) the day of yesterday)’
<b>(nə-)caṛí cēn</b>	‘that time, that day’
<b>ṭuput enṭí / nə-ṭupút enṭí</b>	‘this year’
<b>(nə-)cipín</b>	‘in the evening, in the afternoon’
<b>(nə-)cipín epcí</b>	‘this evening, this afternoon’
<b>ḡḡíṭmak</b>	‘before daybreak: from ca. 4.00h till dawn (lit.: with darkness)’
<b>ḡkəṛâ</b>	‘in the night’
<b>ḡkəṛâ éḡḡí</b>	‘tonight, this night’

**ḡḡíṭmak** consists **n̄-** ‘with, by, (away) from’ and the noun **ḡṭmak** ‘darkness’. **ḡkəṛâ** ‘(in the) night’ is most probably historically made up of the preposition **n-** and a noun **\*kəṛâ** (which is also recognizable in **nəkəṛǝkkəṛâ** ‘the whole night’), but this noun is synchronically not attested.

The year is divided into four seasons. On two seasons a PPC is optional (**ṭə-** resp. **nə-**), on one **ɪ-** must be used, while the fourth is used without a PPC:

Table 103 Seasons

<b>kərrən / ṭə-kərrən</b>	(in) the beginning of the wet season (ca. end of April-June)
<b>cukku / nə-cukku</b>	(in) the height and end of the wet season (ca. July-beginning of October)
<b>ɪ-cəpǝ</b>	(in) the first part of the dry season (ca. end of October-January)
<b>pəṛú</b>	(in) the last part of the dry season (ca. February-April)

A few reduplicated adverbs were already listed above. Some others follow here. **no-** ‘on, at’ is a formative of **no-kkó-no-kkí** and **no-kə́rɔ́-kkə́râ**, but no synchronically attested noun is recognized in these words.

<b>no-kkó-no-kkí</b>	‘in the daytime, during the day, the whole day’
<b>no-cɨŋkí nɔ́-cɨŋkí</b>	‘the whole day (lit.: at sun-at sun)’
<b>no-kə́rɔ́-kkə́râ</b>	‘in the night, during the night, the whole night’
<b>no-cokkó no-cokkô</b>	‘during the whole wet season’
<b>no-urɔ no-urú</b>	‘during the whole dry season’

<b>ɛppin-ɛppin / appin-appin</b>	‘always, every day’
<b>kiti-kití</b>	‘every moment, all the time’

Clock-time is expressed with **no-cɨŋkí** ‘on sun’ and a numeral. The period of the day can be added:

<b>no-cɨŋkí</b>	<b>c-ə́rɔ́rɔk</b>	<b>cɨpín</b>
on-sun	c-three	afternoon

at three o’clock in the afternoon

### 17.1.2. Adverbs and adverbial expressions of place

All locative adverbs can be preceded by the locative proclitic **cɨk-** ‘just, precisely’ (see 15.3). Deictic adverbs relating to the location of the speaker are the following:

Table 104 Deictic adverbs

<b>cəné</b>	here, at a place near the speaker
<b>cənékɛt, cənekɛt</b>	there, at a place not far from the speaker, within sight
<b>tɛ́ntɛ́tɛ</b>	over there, at a place at some distance from the speaker. Typically out of (clear) sight, but not really far.
<b>tɛ́ntərə</b>	over there, at a place away from the speaker (but still belonging to a larger space to which the speaker belongs as well). Often not in sight.

**téntərə** is possibly related to the demonstrative **en-c-əřê** ‘away from speaker and addressee’.

The deictic adverbs can express location as well as direction, and can be used gesturally as well as anaphorically. Some examples:

**m-p-a.ık**    **cənέ**

1-C-be:PR    here

I am here

**ɔʈʈ.ε**            **korret**    **cənέ**

pull\_at:IMP    line    here

pull a line up to here!

**pəlla**    **p-a.ık**    **cənέket**

cat    C-be:PR    there\_not\_far

the cat is there (in sight, at a little distance from the speaker)

**ʈ-ɔǰáεɔt**                            **cənέket**    /    **cənέket**

IT:IMP-urinate\_at:DEPINCOMPL    there\_not\_far    there\_not\_far

go and urinate there! (at a place somewhat away from the speaker)

**ʈ-ʂʈurakɔt**

IT:IMP-stretch\_oneself\_at.PLUR:DEPINCOMPL

**téntʈte**

there\_out\_of\_sight

go and stretch yourself out somewhere else! (not where I am)

**ɔ-patt-ɔn**    **téntʈte**                            **ı-cáama<sup>11</sup>**    **ʈ-ɔpərɔt**

PERS-person-PL    there\_out\_of\_sight    in-university    C-fine

the people here in the university are fine (in skype conversation Leiden-Khartoum, while the speaker is in Leiden, but not at the university)

**nuʈʈruk**    **n-a.ık**    **téntərə**

pigs    C-be:PR    there\_at\_distance

the pigs are over there (at a distance) (fr. written story)

There are also deictic adverbs relating to the place of the addressee:

<sup>11</sup> From Sudanese Arabic *jaam'a* ‘university’



**cínâḡ** ‘there where you are (on or near that spot)’  
**ṭénṭraḡ** ‘there, near the place where you are (but typically out of your (clear) sight)’

**cínâḡ** and **ṭénṭraḡ**, respectively, contain **cəné** and **ṭénṭite** combined with the 2SG possessor morpheme **-âḡ**. No such adverbs exist on the basis of **cənéket**, **cəneket** or **téntərə**. Examples:

**ḡ-kw-ḡṇṭa akka a-íkkə cik cínâḡ ákkómân**  
 2-C-why that CONJ-(2-)sit:DEPINCOMPL VREF there\_where\_you\_are since  
 why are you still sitting there (where you are)?

**ipitti ḡ-paṭṭ-ḡn appik ṭénṭraḡ**  
 ask:IMP PERS-person-PL all there\_near\_you  
 greet all the people there with you (i.e. in different places in your environment)

The deictic adverbs can also be used in relation to third persons, as in the next example:

**k-kw-íkkó.t ḡpák í-ḡpón**  
 3-C-drink:COMPL beer RES-(C-)bitter  
**á-kw-í.at cínâḡ noṭok**  
 CONJ-3-die:DEPPRFV there\_where\_you\_are for\_no\_reason

he had drunk strong liquor and then just died there (at that place where he was) for nothing (fr. written essay)

There is no adverb based on **téntərə** in combination with the 2SG possessor **-âḡ**. A place that is distant from the addressee, but part of his/her larger space, is referred to through **ṭán** ‘there’ by a speaker whose actual location is not considered part of that larger space. This meaning of **ṭán** is a semantic development from **ṭán** ‘at’ as the absolute form of the PPC **ṭə** ‘at’. The following question was asked by JS in Khartoum to the researcher in Leiden when talking about her family in Zwolle:

**ɔ-patt-ón**      **ʔan**      **ʔ-ɔpərɔr-i**  
PERS-people-PL      there      C-fine-Q

are the people there fine? (the people are nearer to the addressee than to the speaker, but not in the immediate vicinity of the addressee)

**ʔéntərə** is appropriate in the answer, since for the researcher, Zwolle belongs to the same space as where she is, but it is at a distance:

**ɔ-patt-ón**      **ʔéntərə**      **tuən**      **ʔ-ɔpərɔt**  
PERS-people-PL      far\_from\_speaker      home      C-fine

the people there in their house are fine

When consultant and researcher are both in Khartoum and talk about their family in ʔɔɽɿ and Zwolle, **ʔán** is used in both cases. Seen from Khartoum, both places belong to a different space.

**ʔán** as an adverb referring to a space outside the space of the speaker is also a formative of **ɕɿʔán** ‘far, far away’, which further contains the locative proclitic **ɕík-** ‘just, precisely’:

**ɔ-kín**      **ʔ-ákənn-ónɔ**      **ɕɿ.ʔan**      **n.ti**      **i-ccík**      **k-ɔ-ʔtan**      **p-ɔ-kkɔl**  
PERS-3A      C-NEG-build:DEPINCOMPL      far      from      in-place      C-of.PERS-father      C-of-child

they will build not far from the place of the father of the boy (lit.: they will not build far from ...) (fr. written description)

**ʔɽɽʔán** ‘behind’, which has **ʔán** as a formative, can be used as a preposition but also as an adverb.

Some further adverbial expressions with place semantics follow here:

<b>nəppăn</b>	‘inside’ (< <b>nɔ-</b> ‘on, at’ + <b>tupan</b> ‘room’)
<b>tuăn</b>	‘at the house, at home’ (possibly < <b>tɔ-</b> ‘up at’ + <b>măn</b> ‘room’)
<b>ʔəpət, ʔəpút</b>	‘outside’ (possibly contains <b>ʔɔ-</b> ‘at’ as a formative)
<b>ʔəkkun wɔkúrê</b>	‘on the left side’ (lit.: at hand of left side)
<b>ʔəkkun wɔʔarí</b>	‘on the right side’ (lit.: at hand of right side)

**napəttôt, nəpəttôt** ‘near’ (related to C-**uttôt** ‘short’)  
**napəttúttôt, nəpəttúttôt** ‘very near’ (related to C-**uttúttôt** ‘very short’)

Some of the preposition-and-noun combinations that form part of a complex preposition (see chapter 16.4) also function as adverbs. As adverbs, they lack the connexive phrase introduced by C-ə ‘of’:

**nɔcəkên** ‘from behind’ (< **n̄** ‘from’ + **tə** ‘at’ + **cəkên** ‘lower back’)  
**təkít** ‘firstly, as the first’ (< **tə** ‘up at’ + **kít** ‘eyes’)  
**cittókít** ‘firstly, at first’ (< **cík-** + **tə** ‘up at’ + **kít** ‘eyes’)

### 17.1.3. Manner adverbs

**mêník** ‘so, like this/that’ is a deictic manner adverb:

**ɔkkɔt.e mêník**  
do:IMP like\_this  
do it like this!

It can also be used in inquiries after somebody’s health or other problems, if the speaker knows there have been certain problems:

**k-kw-ícça p-a.ík mêník-î**  
3-C-still C-be:PR like\_this-Q  
is s/he still in the same state?

**k-kw-á.ík mêník**  
3-C-be:PR like\_this  
s/he is still the same / there is no change

The conjunction word **ittiná** ‘so, like this’ (see chapter 18.7) can also function as a deictic manner adverb:

**ɔkul w-a.ík w-ápukkwə ittiná eppin-eppin**  
child C-be:PR C-fall.PLUR:INCOMPL so always-REDUP  
the child is falling like this all the time

**ἡ φίμα ἡ σάλπη ἡ-ῶ-ἰν-τα-ππου ἔη-ἡ-ί ἡ ἰρρόκ ἰτίνᾱ**  
 friend sauce C-of-what-QW-really DEM-C-NEARSP sweet so

friend, what, really, is this sauce that is so sweet made of? (App. IV, 28)

**m-p-ῶn-τα akka m-p-ῶἡάκῶτ.ε ἰτίνᾱ ἰτῖ ...**  
 1-C-why-QW that 1-C-be\_loved:COMPL so that

why am I so loved, that ... ? (Luke 1:43)

Some further manner adverbs include the following, several of which have typical adverbial morphology:

**κικκέ** ‘properly, completely’  
**κικκε-κικκέ** ‘carefully, softly, slowly; also: later’  
**παῖνναῖ** ‘properly’ (< **παῖ** ‘thing’ + **π-ῆνναῖ** ‘properly sized’)  
**ἰπ-πᾶρᾶτῆρέ** ‘very well’ (related to C-ῶπᾶρᾶτῆρέ ‘very good’)  
**ἰκ-κίῖτακ** ‘badly’ (related to C-ῶκίῖτακ ‘bad’)  
**ἰκ-κίῖτῆτῆτακ** ‘very badly, seriously’ (related to C-ῶκίῖτῆτῆτακ ‘very bad’)  
**ἰπ-πάπατ** ‘lightly, easily’ (related to Completive C-ῶπαπατ ‘be light, have become light’)

**ἰκκίῖτῆτῆτακ** ‘very badly, seriously’ can be used as an intensifier. In the example below it intensifies its cognate adjective:

**ῶ-παῖτι π-ῶκίῖτακ ἰκκίῖτῆτῆτακ**  
 PERS-person C-bad very\_badly

the person is extremely bad

The noun phrases **ἰν ἰπᾶρᾶτ** lit.: ‘words are good’, **ἰν ἰπᾶτῆρέ** lit.: ‘words are very good’, **ἰν ἰκίῖτακ** lit.: ‘words are bad’ and **ἰν ἰκίῖτῆτῆτακ** lit.: ‘words are very bad’ can be used adverbially:

**m-p-ἰκάτ.ε ἰν ἰ-ῶπᾶρᾶτ**  
 1-C-lie\_down:COMPL words C-good

I slept well

Yet a few more manner adverbs, several of which (probably) have typical adverbial morphology, as indicated by the segmentation:

<b>aṭ-ṭəman</b>	‘quickly’
<b>ṭəman-ṭəman / ṭəmən-ṭəmən</b>	‘quickly, hurriedly’
<b>ac-cəkkət</b>	‘quickly, earlier (than expected)’
<b>cəkəc-cəkət</b>	‘quickly’
<b>kucək-kucək</b>	‘quickly’
<b>pərrá</b>	‘slowly’ (< Sud. Arabic <i>be-raaha</i> )

<b>it-ṭíət</b>	‘sweetly, tastily’ (related to C-ṭíət ‘sweet, tasty’)
<b>ip-pǎ</b>	‘hotly’ (related to C-íppá ‘hot’)
<b>təṅ-əttəṅ</b>	‘tightly’ (probably related to əttəṅ ‘again’)
<b>kəṛuṅ-kəṛuṅ</b>	‘seriously, with dedication’
<b>cunḵut cunḵut</b>	‘groupwise, group by group’ (lit.: group group)

#### 17.1.4. Some adverbs with miscellaneous semantics

Intensifying adverbs include the following. Typical adverbial morphology has been indicated by segmentation:

<b>cannán</b>	‘very, a lot’
<b>aṅ-ṅəna</b>	‘very, very much’
<b>ṭiaṭ-ṭiak</b>	‘very’
<b>aṅ-ṅəriṅ</b>	‘completely’
<b>kír-əkkír</b>	‘completely, very; with negation: never’
<b>aṭ-ṭík</b>	‘with negation: at all, never’
<b>pəṛin</b>	‘finally, completely, enough; with negation: not anymore’
<b>ip-pu, -p.pu</b>	‘really, seriously (intensifying)’

A morphologically intensified adjective can be still further intensified by an intensifying adverb:

<b>kurrónḡ</b>	<b>k-úṭṭ~úṭṭót</b>	<b>cannán</b>
stick	C-INTS~short	very

the stick is *very* short

**kɪrəkɪr** expresses ‘completely, very’ (first example below). In combination with a negated verb it expresses ‘never’ (second example below).

**ɪn-t-ɔpərsɔt**    **ana**    **ɔttɛ**<sup>12</sup>    **p-ɔŋɔ**    **kɪr-əkɪr**  
 1A-C-good            and            your\_father            C-ill            completely-REDUP

we are fine but our father (lit.: your father) is very ill

**k-kw-ānn-ɪpɔ**    **pól**    **ém-p-í**    **kír-əkɪr**  
 3-C-NEG-obtain:DEPINCOMPL    person            DEM-C-NEARSP            completely-REDUP

s/he can never marry this person

**attík** combines with a negated (or inherently negative) verb expressing ‘never’:

**lɔn**    **el-l-ɪ**    **l-akənn-ɔsɔɔ**    **áttík**  
 words    DEM-C-NEARSP    C-NEG-stop:DEPINCOMPL            at\_all

these things will never stop

In combination with a negated verb **pəɾɪn** expresses ‘not anymore’:

**m-p-ānn-aŋkɔt**    **itɪ**    **ɔ-rɪt**    **t-áppɔɔa**    **pəɾɪn**  
 1-C-NEG-want:DEPCOMPL    that            PERS-12            C-play:INCOMPL            finally

I don’t want to play with you (SG) anymore (I don’t want us to play anymore)

**ɪppɔ**, or its enclitic variant **-ppɔ** is an intensifying adverb that can be used, for example, with ‘one’ expressing ‘(really) only one’. It is glossed ‘really’:

**ɔkɔl**    **en-n-ɪ**    **w-ulukkú-ppɔ**  
 child            DEM-C-NEARSP            C-one-really

this child is (really) the only one

<sup>12</sup> ‘Your father’ is the polite way to refer to an older male family member who is related to both the speaker and the addressee. The person can, for example, be the father of the speaker and the uncle of the addressee.

Question words ending in the question morpheme **-ta** can also be intensified with this adverb. The adverbs in the example below convey that the questions are urgent and important for the boy asking them:

**caṛi c-əɾek c-əka.káte cik a-laló əmentet ól itti**  
 day C-some C-be:PST VREF CONJ.PERS-Lalu tell.PLUR:DEPINCOMPL people that  
**ṭépa ṭ-árát-ta-ppo ana ṭ-ṭ-óηkwó.t ṭín-ta-ppo**  
 lion C-how-Q-really and PRO-C-resemble:COMPL what-QW-really  
**ana ṭ-ṭ-íkkə cik kárə.ṭá-ppo**  
 and PRO-C-sit:INCOMPL VREF where:QW-really

there was a time that Lalo was all the time asking the people ‘seriously, how is a lion (i.e. how big), and what does he look like and where does he live?’ (fr. written story)

Some colour adjectives have special, cognate, adverbs for intensification. Some were already mentioned in chapter 10.2.7 in the context of intensified adjectives, notably **ṭṭṭí** ‘very (black)’, **ippök** ‘very (white)’ and **ittələ** ‘very grey, yellow’. Examples with **ṭṭṭí** modifying the (non-related) verb **ṭṭṭiet** ‘make black, dirty’, and with **ippök** modifying the (related) verb **úpukie** ‘make white’) follow here:

**m-p-a.ik p-ṭṭṭiet pətək ṭṭṭí**  
 1-C-be:PR C-make\_black:INCOMPL stone very

I am making the stone very black

**m-p-a.ik p-úpukie pətək ippök**  
 1-C-be:PR C-make\_white:INCOMPL stone very

I am making the stone very white

This construction cannot be made with an adjective:

**\*m-p-a.ik p-úpukie pətək p-ípók / p-ípókippök**  
 1-C-be:PR C-make\_white stone C-white / C-very\_white

The adverb **ittuǎŋ** ‘very’ is used for intensification of **C-ɔɽě** ‘red’ and **ɔɽia** ‘become red’. Alternatively, a variant **ittiaŋ** may be used. It tends to fuse with **C-ɔɽě** ‘red’ to **C-ɔɽettiǎŋ** ‘very red, very ripe’:

**pira**      **p-ɔɽe**      **ittuǎŋ / p-ɔɽe-ttiǎŋ**  
 tree          C-red          very          / C-red-very

the fruits are very ripe (lit.: the tree is very red)

‘Spottedness’, which is typically a colour of birds, is intensified by **pír**, which is typically pronounced with a long trill:

**puɽupé**      **p-ɔɽeret**      **pír**  
 bird          C-spotted      very

the bird is very spotted

Some further adverbs with miscellaneous semantics include:

**əttəŋ**          ‘again’  
**noɽók**          ‘for no reason, in vain’  
**kapík**          ‘upright’  
**məna**          ‘even’  
**tullúk**          ‘only, just’  
**təruk**          ‘nevertheless’  
**it̩ŋ**            ‘together’  
**təɽŋ**          ‘together’

The adverbs **tullúk** and **təruk** share their roots with the respective adjective **C-ullúk** ‘only, just’ and **C-ərúk** ‘only, just’. Examples with the adjectives are given in 10.4.4. Examples with the adverbs follow here.

**m-p-ɔnó** **noɽol**      **n-əɽapóruk**      **tullúk**  
 1-C-have      children          C-three          only

I have only three children

**ŋ-kw-ɔnó**      **təruk**      **it̩t̩**      **ŋ-kw-a.ccɽkət**  
 2-C-have          only          that          2-C-hear:INCOMPL

you must nevertheless listen / still you must listen



**ɪ̥t̥ʊ̃n** ‘together’ and **t̥ɔ̃t̥ʊ̃n** ‘together’ respectively contain the prepositions **ɪ-** ‘in’ and **t̥ɔ-** ‘up on, up at’; a noun **\*t̥ʊ̃n** is (synchronically) not attested on its own. The tonal behaviour of **t̥ɔ̃t̥ʊ̃n** shows that the word (still) functions as PPC and noun, not as a single unit. Unlike proclitic **ɪ-** and unlike nouns with a rising tone, **t̥ɔ-** can receive a high tone from a preceding element. **ɪ̥t̥ʊ̃n** typically expresses that people put their hands together, for example for eating from a shared plate or for doing certain work which requires joint manual effort. **t̥ɔ̃t̥ʊ̃n** is used rather for being (physically) together. Examples:

**ɔ-nɪ̃n**      **t̥-ɔ̃t̥ək̥ɔ.t**      **kəpa**      **ɪ̥.t̥ʊ̃n**  
 PERS-1A      C-eat:COMPL      meat      together

we have eaten meat together (picture of people eating from one plate)

**a-ól**      **áppík**      **éʃ**      **á-t̥-ɔ̃ccóɾɪnɛ**      **ɪ̥.t̥ʊ̃n**  
 CONJ-people      all      go:DEPINCOMPL      SUBJ-IT:DEPINCOMPL-run\_for:DEPINCOMPL      together

and all the people will be ready to give a hand (lit.: and all people go in order to go and run for it together)

**n-íkkɔ-ɪk**      **t̥ɔ̃.t̥ʊ̃n**  
 12A-do:DEPINCOMPL      together

stay together!

**ɔ-nɪ̃n**      **t̥-ɔ̃ccɔ̃t̥ɔ̃t̥-ɔ̃k**      **t̥ɔ̃.t̥ʊ̃n**  
 PERS-12      C-stand\_at:COMPL-O3      together

we stood together with him/her (i.e. we supported him/her)

## 17.2. Discourse particles

Lumun has a few enclitic discourse particles. The particles **-a**, **-na**, **-tɪ**, **-mé** and **-mɛ** are discussed in this section. Enclitic discourse particles that turn a statement into a question are discussed in chapter 20. Deviating from regular assimilation patterns, the initial consonants of **-na**, **-tɪ** and **-mé** assimilate to the place of articulation of a preceding consonant, as can be seen in some examples given here. Two further examples of this assimilation are provided in chapter 2.1.3 (one with **-na** and one with **-mé**).

## 17.2.1. The particle -a

The particle **-a** is a particle with which the hearer’s attention is claimed (hence the gloss ATT).<sup>13</sup> It has a low tone and does not coalesce with a preceding vowel. It is typically used in the final sentences of a story, when the story moves towards or reaches its climax. In this context the use of **-a** co-occurs with an acceleration of the narrative: descriptive details, which may be abundant in the beginning of a story, are omitted now. The use of the particle **-a**, asking for heightened attention, is part of this accelerated style. This is an example from the final stage of the ‘The story of the jackal’:

<b>... a-kín</b>	<b>ṣṭákkar.at</b>	<b>a-kín</b>	<b>ikk.at</b>	<b>ɕik</b>
CONJ.PERS-3A	move_aside:DEPPRFV	CONJ.PERS-3A	sit:DEPPRFV	VREF
<b>a-kín</b>	<b>ṣṭáttɔ</b>	<b>ménik-â</b>		
CONJ.PERS-3A	fight:DEPINCOMPL	like_this-ATT		

they moved aside and continued to fight like that (‘The story of the jackal’)

Another example comes from the final stage of ‘The story of the tortoise’:

<b>akka</b>	<b>ɔpa</b>	<b>w-aa.r-â</b>		
that	piece_of_meat	C-come:COMPL-ATT		
<b>a-k-ó.at</b>	<b>ɪ-kəɟál</b>	<b>ɛŋ-k-ərik</b>	<b>k-ɔttê</b>	
CONJ-C-descend:DEPPRFV	in-small_water_spot	DEM-C-NEARSP	C-small	

when the wild animal came, he (tortoise) moved down into that small pool (App. IV, 153-154)

The particle is also typically used by adults or older children when talking to young children, and in songs (not just children’s songs). In speech to children it is a way to make the message sound friendlier.

An example from speech to a child follows here. The situation is that a person has arrived at the house of a neighbour to whom she has lent a rope; she has come to take the rope back home. However, she finds only a child in the compound and the child does not know

<sup>13</sup> There is also a question particle **-a** for recovery of information, see 20.2.3.

which rope is the borrowed one. The child invites the visitor to wait for her mother, and the visitor does this, but after a while decides to leave without the rope. The use of the particle makes the message that she is leaving sound softer:

**ɔnnɛ p-ícca p-ɔccɔ́.t cik ána m-p-éí p-á.éó-a**  
 your\_mother C-be\_still C-catch:COMPL VREF and 1-C-be\_here C-go:INCOMPL-ATT  
 your mother continues to be late and now I am leaving

An example from a song is the following. It has the particle three times, illustrating that it may be used in different positions in the sentence. Most typically though, it comes in the end. I have not written tone in this sentence, since it is sung on a melody. In speech the discourse particles would be absent.

**kukku ana ɔ-lɔtti-a**  
 Kukku and PERS-Lɔtti-ATT  
**m-pɔŋɔ́.ɛ itti n-ɕ-erɛŋ-m i-mɔpail-a m-in-a**  
 1-C-like:COMPL that 2A-C-talk\_to:INCOMPL-O1 in-mobile\_phone-ATT C-POSS1-ATT  
 Kukku and Lɔtti, I want you to talk to me in my mobile phone

### 17.2.2. The particle **-na**

The particle **-na** is a particle that is attached as an enclitic to an Imperative or another verb form that (mildly) urges the addressee to do something. The nasal turns a preceding obstruent into a nasal, but adapts to its place of articulation. The resulting nasal is realized short. Unlike Imperatives and commands without the particle, a verb with the particle does not convey the desire of the speaker, but expresses allowance for the addressee to do something. The allowed action has often (explicitly or implicitly) been requested by the addressee in the first place, but can also be suggested by the speaker in the addressee's interest.

**ɪpɪtt.i-ná á-n-íɕɛ́-óŋ**  
 ask:IMP-ALLOW SUBJ-1-tell:DEPINCOMPL-O2  
 ask it, so that I tell you!

**αἰτη-ηά**                      **ά-τ-ικκινε**                      **ο-ίαία**                      **κικ**  
 come:IMP-ALLOW                      SUBJ-(2-)VEN:DEPINCOMPL-sit\_for:DEPINCOMPL                      PERS-my\_mother                      VREF

**πά.πόττê**  
 short\_time

come and wait a little for my mother! (the addressee needs the mother and maybe the mother will come after some time) (fr. written dialogue)

**ant-εό-na**

can:DEPINCOMPL-go:DEPINCOMPL-ALLOW

okay, you go now (for example after accompanying somebody on his way to a certain place. The speaker now takes leave and the addressee will continue on his road alone).

### 17.2.3. The particle -τι

The particle -τι ‘you know’ adapts to the place of articulation of the preceding consonant, after **l** it turns to its intervocalic allophone **r**.

The particle is used in unsolicited explanations for situations or behaviour that is unexpected or unusual, expressing that no offence is intended. The following may be said when there is visitor and the speaker feels very sleepy (first example) or as an excuse for being late (second example). The particle has a flavour of confidentiality:

**m-p-εκά.t**    **κικ**                      **a-n-ίcat**                      **κικ**                      **νά-αταηkal-rî**  
 1-C-be:COMPL    VREF                      CONJ-1-lie\_down                      VREF                      on-bed-you\_know

I was lying down on the bed, you know

**m-p-εκά.t**    **κικ**                      **a-n-εταεκο**                      **ηυτú-ρι**  
 1-C-be:COMPL    VREF                      CONJ-1-eat:DEPINCOMPL                      asida-you\_know

I was eating asida, you know

-τι also functions as a question particle. Such questions often start with **έκκæρε** or **ίκκæρε** ‘perhaps’. Here too, the particle conveys that no offence should be taken. In the translations I have used ‘perhaps’. The question is typically answered with ‘yes’ or ‘no’.

**íkkære**      **η-k-orét**      **nán**      **íttí**  
 perhaps      2-C-forget:COMPL      on:ABS      that  
**ś-rít**      **ṭ-á.ík**      **ṭ-á.ṭ-ípcettət**      **ménní-rí**  
 PERS-12      C-be:PR      C-IT:INCOMPL-meet\_each\_other:DEPINCOMPL      today-you\_know  
 did you perhaps forget that we were going to meet today?

**íkkære**      **η-kw-ıřét.ε**      **pəlla**      **ıttı**      **p-p-âṅṭan-tı**  
 perhaps      2-C-tell:COMPL      cat      that      PRO-C-come:INCOMPL-you\_know  
 did you perhaps tell the cat to come? ('The story of the jackal')

Possibly, this **-tı** is the same as the formative **tı** in the complementizer **ıttı** 'that' (see 18.7) and in the defective verbs **attı** 'I hope that' and **əpəri** 'say, think' (see 12.21).

#### 17.2.4. The particle **-mé**

The particle **-mé** turns a statement into a proposal for action. It can also be used on an imperative clause or on a polite command with **ant** 'can'. It can have an encouraging flavour, like 'just do it, trust me!' A clause with **-mé** is often introduced by **ana** +H 'and' and typically continues on already communicated intentions, wishes or agreements. The solicited reaction is **ıı** 'yes'. **-mé** is attached at the end of the clause and can be used with all persons. The **m** of the particle turns a preceding obstruent into a nasal, but adapts to its place of articulation. Some examples follow here; **-mé** is glossed as PROP, from proposal:

**ana**      **m-p-ákkarə-mé**  
 and      1-C-call:INCOMPL-PROP  
 so let me call (you) then

**apelle**      **ηucol-é**  
 pour\_some:IMP      sauce-PROP  
 pour some sauce! (App. IV, 70)

**arıη-ηé**      (< **arık** + **-mé**)  
 come:IMP-PROP  
 now come!

**ᄃᄃᄃᄃᄃᄃ-ᄃᄃ-ᄃᄃ**

catch:IMP-O1-PROP

catch me! (but just do it when you are ready!)

17.2.5. The particle **-mε**

Also the particle **-mε** is used on imperative clauses and polite commands with **ant** ‘can’, but expresses urgency. The following example shows that a preceding nasal adapts to the place of articulation of the particle. Here, length of the nasal was retained, hence the writing with a double vowel:

**ᄃᄃᄃᄃᄃᄃ-ᄃᄃ-mᄃ**

catch:IMP-O1-URG

catch me!! (i.e. do it now!!) (App. IV, 129)

## 17.3. Interjections

Interjections include the following:

<b>ᄃᄃ</b>	‘yes’
<b>εε</b>	‘yes (eager confirmation)’
<b>ᄃᄃᄃ</b>	‘sure (a confident yes)’
<b>ᄃᄃ</b>	‘confirming response when you are called’
<b>akwa</b>	‘okay, let’s leave it here (signalling a switch to another subject or that the conversation is finished)’
<b>á-a/ǎ-ǎ/ím-m</b>	‘no’
<b>ᄃᄃát</b>	‘true!, indeed!’
<b>ᄃᄃkwǎ/ᄃᄃkwǎ</b>	‘goodness!, oh!’ (conveys surprise)
<b>ᄃᄃkwǎ</b>	‘oh!’ (conveys shock, sadness)
<b>éε</b>	‘hey!’ (call for attention)
<b>ᄃᄃᄃᄃ</b>	‘no!, nonsense!’ (ε can held on extra long)
<b>mpa/mpaa/mpaak</b>	‘no!, nonsense!’ (a can be held on extra long)
<b>təll</b>	‘yuck!, ick! (expressing disgust)’
<b>ᄃᄃááí</b>	‘conveys uncertainty’
<b>ᄃᄃᄃ</b>	‘conveys uncertainty’
<b>káᄃᄃᄃ</b>	‘say’ (often introducing a question or

order/command. It can be followed by an encouragement from the hearer to the speaker to say what she wants to say)

Some examples:

**a-pari-ón**    **ómékat**    **itti**    **nṭee**    **ḡae**    **ḡ-ḡ-ín-í**  
 CONJ-wife-PL    say:DEPPRFV    that    nonsense    urine    C-of-what-Q

His wife and children said, nonsense, urine for what?? (App. IV, 52)

**ana**    **m-p-a.kkət**    **táṭ-ṭa**    **coḡ**  
 and    1-C-do:INCOMPL    how-Q    UNCERT

and what will I do?

**káṭṭia**    **et-m**    **cáṭṭak**  
 say    give:IMP-O1    calabash(k.o.)

say, give me the calabash!

Stories can typically contain sound symbolic interjections. They may involve sounds that do not belong to the Lumun sound inventory. Examples include:

**appəṛət**    sound of cutting open lungs filled with air (App. IV, 158)  
**attáp**    sound of palmfruit hitting the bottom of the tortoise (App. IV, 108)  
**attəpək**    sound of bird landing on a tree (fr. written story)  
**attol**    sound of spear or small axe killing a bird (fr. written story)  
**kucək**    sound of something falling into the water from a height (App. IV, 130)  
**u u**    sound of bird coming down, sound of wind blowing (fr. written story)

There are also specific expressions to call or chase away animals. Some involve unusual sounds. Examples:

**ku**    sound for chasing a chicken away  
**kírř**    sound for calling a chicken (ř is held long)  
**ṭur**    sound for chasing a pig away

<b>ŕên</b>	sound for calling a pig
<b>ca, cak</b>	sound for chasing a goat
<b>ala, alala</b>	sound for calling a goat
<b>na</b>	sound for calling a young goat
<b>ía, sîñ</b>	sound for chasing a dog
<b>síla</b>	sound for calling a dog
<b>hau</b>	sound for chasing a cow
<b>arre</b>	sound for calling a cow



## 18. Conjunctions

This chapter discusses conjunction words and particles. Conjunction words and particles join phrases and/or clauses. Certain conjunction words and particles can (or must) be combined.

Lumun has the following conjunction words and particles: **ana** +H ‘and’, **á-** ‘and, while’, **â-** ‘so that, in order to’, **ámma** +H ‘if, when’, **akka** +H ‘that, when, because’, **mənɔ/məna** ‘until’ (always followed by **á-**), **ittĩ** ‘that’, **ere** +H ‘like’ and **ámma** ‘like’.

### *Tone*

The representation of underlying tones of conjunction words and particles is not without problems. For most I nevertheless propose underlying tones. In addition I describe some tonal realizations that do not follow from the rules. A tonal feature that virtually all conjunctions share is that they have the ability to bring a high tone to a following element. At the same time, most can receive a high tone themselves, so that their own high tone is either a final high or a floating high tone (not a rising tone). In isolation, these conjunction words are realized with a final low tone. Though their isolated production is artificial—they do not occur in prepausal position since they always introduce a new phrase or clause—I nevertheless represent them for this reason with a floating high tone (+H).

**ittĩ** ‘that’ cannot itself receive a high tone from a preceding element, for which reason I represent it with a rising tone. Also **á-** ‘and, while’ cannot receive a high tone from a preceding element. Since **á-** is monomoraic, a high and a rising tone would both be possible. As explained in 3.8, I assign a high tone in such cases.

### 18.1. **ana** +H ‘and’

**ana** +H ‘and’ is used for the conjunction of noun phrases as well as clauses. When joining noun phrases, **ana** +H is realized with an

initial high tone when preceded by an element with final high or rising tone:

**tuuli ána pälla** ‘the hyena and the cat’ (< **tuulí ana H pälla**)

In an enumeration **ana** +H is used between all enumerated elements:

**aɾəpu w-ɔ-rua w-ɔká.t itti**  
 things C-of-hair C-be:COMPL that  
**tuɔk ána túttərɔk ana pápəkɪra ana ɔmaɬɔn**  
 dog and pig and leopard and elephant

the animals were the dog, the pig, the leopard and the elephant

**ana** +H is also a clause linker. An example of coordination of two clauses, both with an adjectival predicate, follows here:

**t-ikkɔ cɪk kárəttóm t-ɔpərɔt ana t-t-ɔkɪɬak**  
 NOM-sit VREF Khartoum C-good and PRO-C-bad

staying in Khartoum is good and bad (lit.: and it is bad)

A clause introduced by **ana** +H often contains a non-dependent verb. Its subject can be co-referent with (first example below) or different from the subject of the preceding clause (second and third example). Before **ana** +H linking clauses, a prosodic boundary can be realized (and will be if the preceding clause is an **ámma** +H or **akka** +H -clause). In that case, a preceding high tone is not realized on **ana** +H and a preceding falling tone is realized as falling. In the third example there is a prosodic boundary before **ana** +H (‘outside’ has itself a L.H pattern).

**m-p-ikkɔ.t cɪk ána m-p-ɔkɪɬá.t**  
 1-C-sit:COMPL VREF and 1-C-become\_tired:COMPL

I have been waiting and I am tired

**ɔ-kakká p-ɔɲí ana ɔ-nənní p-ɪpók**  
 PERS-Kakka C-black and PERS-Nenni C-white

Kakka is black and Nenni is white

**ɔ-llé**      **p-in**      **p-ɔ̀t̩ɔ̀t̩-ín**      **t̩əpút**      **ana**  
 PERS-husband    C-POSS1      C-send:COMPL-O1      outside      and

**ŋ-kw-a.t̩-ɔ̀kkɔ̀t**      **ŋín**  
 2-C-IT:INCOMPL-do:DEPINCOMPL      what

my husband has sent me away and what are you going to do? (fr. written story)

The non-dependent verbs in the clauses linked through **ana** +H do not need to be in the same TAM, for example:

**ɲokul**      **ɲ-ɔ̀ká.t**      **cɪk**      **a-ɲ-ícat**      **cɪk**  
 children      C-be:COMPL      VREF      CONJ-PRO-lie\_down:DEPINCOMPL      VREF

**ana**      **ɲ-ɔ̀t̩att.áɬe**  
 and      PRO.C-fight:PAST

the children were lying down and (then) they fought

Though the verb in a linked clause introduced by **ana** +H is typically a non-dependent main verb, it can also be a Dependent Incompletive. In such cases the second clause lacks overt reference to the subject. Its understood subject is co-referent with the subject of the preceding clause. The following sentence has two variants. The first has a linked clause with an overt subject and a non-dependent (Incompletive) verb, the second lacks an overt subject and has a Dependent Incompletive verb.

**kərrən**      **ana**      **cókkó**      **ɔl**      **w-éé**  
 early\_wet\_season      and      height\_of\_wet\_season      people      C-plant\_sorghum:INCOMPL

**ana**      **w-á.ra**      /      **ana**      **ɔrà**  
 and      C-cultivate:INCOMPL      and      cultivate:DEPINCOMPL

In the early wet season and at the height of the wet season people plant sorghum and cultivate (second variant from calendar)

In such constructions, the non-dependent verb in the first clause is not necessarily an Incompletive, it can also be a Completive:

**m-p-ḷcáṭ.ε**      **mεccin**      **ḡ-cik-i-cḷḡkí**  
 1-C-lie\_down:COMPL    yesterday      with-LOC-in-sun

**ana**      **úrəkə**      **a-cḷḡkí**      **c-εṵ.t**      **cik-i-tḷṛṵt**  
 and      get\_up:DEPINCOMPL    CONJ-sun      C-go:COMPL      LOC-in-sky

I slept early yesterday and got up when the sun was up in the sky (*ḡcḷḡkicḷḡki*, lit. ‘from in the sun’ expresses ‘earlier than normal’)

**ana** + H can be used for expressing a contrast, translating as ‘but’. In both examples there is a prosodic boundary before ‘and’:

**ṵ-íára**      **akk-má<sup>14</sup>**  
 PERS-my\_mother      FOC-know:INCOMPL

**ana**      **m-p-ṵmma**      **ṵ-ón**  
 and      1-C-not\_know:INCOMPL    PERS-1

my mother knows, but I myself, I don’t know (fr. written dialogue)

**ṵ-lṵtti**      **p-á-áiné.t**      **nón**      **ana**      **k-kw-ṵka.káṭe**      **p-ṵḡṵ**  
 PERS-Lṵtti    C-IRR-come\_to:COMPL      o2A      and      3-C-be:PST      c-ill

Lṵtti would have come to you, but he fell ill

In order to convey contrastive meaning more strongly, the adverb **tərúk** ‘only’ is added to **ana** + H, forming **anarrúk** ‘but’ (first example below). Alternatively, adjectival C-**ərúk** ‘only, just’ modifies the contrasted subject noun (second example below).

**ḷn-t-ṵpərəṵt**      **ana / ana.rruk**      **ṵ-tṵṵ<sup>15</sup>**      **p-ṵḡṵ**      **kḷr-əkḷír**  
 1A-C-good      and / but      PERS-your\_father    C-ill      completely-REDUP

we are fine, but our father is very ill

**ḷn-t-ṵpərəṵt**      **ana**      **ṵ-tṵṵe**      **p-ərúk**      **p-ṵḡṵ**      **kḷr-əkḷír**  
 1A-C-good      and      PERS-your\_father    C-only      C-sick      completely-REDUP

we are fine, but our father is very ill (lit.: your father is very ill)

<sup>14</sup> The Incompletive of **ma** ‘know’ is tonally irregular. It has a high tone on the second instead of the first mora.

<sup>15</sup> Polite form.

**ana** +H can introduce a new sentence, linking that sentence to preceding discourse, for example:

**ana**      **ɔ-nɔn**      **ɬ-éɛ**      **tăt**  
 and          PERS-2A          C-speak:INCOMPL      how

and what do you (PL) have to say?

**ana** +H can be used sentence-initially in combination with **ámma** +H, **akka** +H, **mɔnɔ** and **məna**. It merges with **ámma** +H to **anámma** +H, and with **akka** +H to **anákká** +H. **ana** +H is also attested immediately before the conjunctive particle **á-**. These combinations function like **ámma** +H, **akka** +H, **mɔnɔ**, **məna** and **á-** alone.

**ana** +H is also part of the constructions **ámma** +H ... **ana** +H ‘if ... then’ and **akka** +H ... **ana** +H ‘when ... then’. These constructions will be discussed under **ámma** +H and **akka** +H, respectively.

## 18.2. Conjunctive **á-** and subjunctive **â-**

Conjunctive **á-** ‘and, while’ and subjunctive **â-** ‘so that, in order to’ are clause-linkers, they do not join phrases. I distinguish between a conjunctive particle **á-** and a subjunctive particle **â-**. Compare the particles attached to the verb ‘eat’ in the examples below:

**k-kw-ɔká.t** **cɪk** **a-kw-ɔkkót**      **ɬúɾít** **a-kw-ɔɾəkɔ**      **cɪk**  
 3-C-be:COMPL      VREF      CONJ-3-do:DEPINCOMPL      food      CONJ-3-eat:DEPINCOMPL      VREF

she was cooking food and eating (at the same time)

**k-kw-ɔká.t** **cɪk** **a-kw-ɔkkót**      **ɬúɾít** **â-kw-ɔɾəkó**      **cɪk**  
 3-C-be:COMPL      VREF      CONJ-3-do:DEPINCOMPL      food      SUBJ-3-eat:DEPINCOMPL      VREF

she was cooking food in order to eat (to have something to eat)

In practice, it can be difficult to decide which of the two particles is involved. The conjunctive particle can be realized with a high tone due to tone bridge. Compare the following alternative realizations of the same sentence, the first without, the second with tone bridge:

**ɔ-ʊn**    **p-ε.káɥ-ɔk**    **ŋəpak**    **a-kw-ɪkk.at**  
 PERS-1    C-give:PST-O3    beer    CONJ-3-drink:DEPPRFV

I gave him beer and he drank it

**ɔ-ʊn**    **p-ε.káɥ-ɔk**    **ŋəpák**    **á-kw-ɪkk.at**  
 PERS-1    C-give:PST-O3    beer    CONJ-3-drink:DEPPRFV

I gave him beer and he drank it

A further complicating factor is that, at least in some cases, tonal realizations are possible that cannot (just) be ascribed to the application or non-application of tone bridge. An example follows here. The verbs in this sentence refer to consecutive events, so that the conjunctive particle is expected in both cases. On the verb ‘produce’ the high tone can be ascribed to tone bridge, but not on the verb ‘get married’.

**ʊkʊl**    **w-a.cókká**    **á-ɪtta.kát**  
 child    C-grow:INCOMPL    CONJ-(PRO-)get\_married:DEPPRFV

**á-kwón.at**    **ɲókʊl**  
 CONJ-(PRO-)produce:DEPPRFV    children

the girl will grow up and get married and give birth to children

In the texts in the appendices, I am not always sure about whether the conjunctive or the subjunctive particle is used. This happens when I would expect the one, but the tones rather seem to point to the other. In such cases I gloss the particle as the one I expect.

### 18.2.1. The conjunctive particle **á-** ‘and, while’

The conjunctive particle **á-** introduces a clause that contains a Dependent Incomplete, Dependent Perfective or Completive verb, or the Present of ‘be’. It can also contain a complex verb of which the first auxiliary is the Present of ‘be’ or a Completive verb. The verb in a clause introduced by **á-** is not an Imperative, nor an Incomplete or a Past. **á-** procliticizes to the (pro)nominal subject of the verb. It is mainly used:

- for the expression of actions or events that happen (more or less) at the same time, or that, together, can be viewed as part of the same event. This includes use in certain complex verbal constructions;
- for linkage with a time-adverbial phrase or clause;
- for the conjunction of consecutive events;
- as complementizer.

**á-** is furthermore used in **ámma** +H ... **á-** ‘if ... then’ and **akka** +H ... **á-** ‘when ... then’ constructions, and after **məno** ‘until’ and **məna** ‘until’. These constructions will be discussed under **ámma** +H, **akka** +H, and **məno** and **məna**.

*Actions that happen —more or less— at the same time and actions that can be viewed as part of the same event*

**á-** before a Dependent Incomplete verb expresses that something happens at the same time as the event in the preceding clause. The subject of the second clause can be co-referent with the subject of the first clause (first and second example below), but also with its object (third example).

**k-kw-óŋkáṭé á-kw-ířet kín itti ...**

3-C-go:PST CONJ-3-tell:DEPINCOMPL o3A that

s/he left while telling them (that) ... (situation: somebody is walking away while still speaking to the people staying behind)

**ana ə-ʊn cəne a-n-əříkət kín**

and PERS-1 here CONJ-1-wait:DEPINCOMPL o3A

and I am here, waiting for them

**k-kw-áṭṭ-ıət ə-nenni a-kw-óřəkə kəpá**

3-C-ITVEN:COMPL-find:DEPINCOMPL PERS-Nenni CONJ-3-eat:DEPINCOMPL meat

s/he found Nenni eating meat

In the following example, **ana á-** is used. It could be translated as ‘and at the same time’. It is from a story at the point that it reaches a series of events that rapidly take it to its (violent) climax:

**ana a-lik ôḡəttat n-a-âk**  
 and CONJ-fires break\_down\_on.PLUR:DEPINCOMPL on-PERS-3

and (at the same time) bundles of fire break down (falling) on him (fr. written story)

The conjunctive particle is also used when two verbs together describe one (main) action, as in the next example from an instruction how to make a ‘singing whip’ (‘take’ and ‘polish’). The verb preceded by **á-** is a Dependent Incompletive:

**ḡ-kw-ómmə kupu a-ccəṭa kiccé**  
 2-C-take:INCOMPL piece\_of\_bamboo CONJ-(2-)polish:DEPINCOMPL carefully

you take a piece of bamboo and you polish it carefully (App. II, 4)

Likewise, **ikkə cik** ‘sit, stay’ can be followed by **á-** introducing a clause with the (semantic) main verb, expressing ‘start to x’ (see 12.9):

**a-kín ikk.at cik a-kín órá**  
 CONJ.PERS-3A sit:DEPPRFV VREF CONJ.PERS-3A cultivate:DEPINCOMPL

and they started to cultivate (‘The story of the jackal’)

The same construction can be made with the verb **apəṭa**, based on Sudanese Arabic *bada* ‘start, begin’:

**akka ɔ-kín t-apəṭá.t á-kín órá ittiná ...**  
 that PERS-3A C-start:COMPL CONJ.PERS-3A cultivate:DEPINCOMPL so

when they had started to cultivate like this ... (‘The story of the jackal’)

**á-** is also part of certain complex TAMs with an auxiliary of ‘be’ (see 12.7.5). The examples have a Past Continuous (first one) and a Past Complete (second one):

**m-p-əká.t cik a-n-əkəṭacce**  
 1-C-be:COMPL VREF CONJ-1-watch:DEPINCOMPL

I was watching it



**k-kw-ǵká.t**    **a-k-kw-âkkarǵ.t**

3-C-be:COMPL      CONJ-3-C-call:COMPL

s/he had (already) called me

*Linkage with a time-adverbial phrase or clause*

The typical opening formula of a story **caɽɽi cəɽɽek cəkát cɨk** ‘once upon a time’ or ‘one day’ is followed by **á-**:

**caɽɽi**    **c-əɽɽek**    **c-cəkát.t**    **cɨk**

day      C-some      C-be:COMPL      VREF

**a-puɽúŋ**      **p-áɽɽ-ɨt**                      **ŋərrǵŋ ...**

CONJ-marten(?)    C-ITVEN:COMPL-find:DEPINCOMPL    squirrel

one day a marten(?) found a squirrel ...

A comparable case is the following:

**ŋ-kw-cəkát.t**    **cɨk**    **maɽǵt**

2-C-be:COMPL      VREF      long\_time\_ago

**â.mpəppəne**                      **ɨcək**    **áka.ín.ɽa**

CONJ.(2.)loose.PLUR:DEPINCOMPL    goats    why

why was it that in the past you were always losing the goats? (lit.: you were long ago and you were always losing the goats why?)

When the clause expressing the time of the event is not the first of the sentence, conjunctive **á-** introduces the time adverbial clause:

**m-p-ɨcát.ɛ**      **mɛccɨn**      **ŋ-cɨk-ɨ-cɨŋkí**    **ana**    **úɽəkə**

1-C-lie\_down:COMPL    yesterday    with-LOC-in-sun    and    get\_up:DEPINCOMPL

**a-cɨŋkí**      **c-ɛǵ.t**      **cɨk-ɨ-ɽɨɽǵt**

CONJ-sun      C-go:COMPL      LOC-in-sky

I went to bed early yesterday and got up when the sun was up in the sky (lit.: and the sun had gone up in the sky)

The examples above with time-adverbial clauses can actually be regarded as events happening at the same time. The conjunctive particle can, however, also be used when a time-adverb is placed in sentence-initial position:

**mɛɾcɛ́n a-ŋ-kw-ɔ̀rənnâ.t ana mɛ́nní ŋ-kw-ittát.ɛ**  
 some\_time\_ago CONJ-2-C-become\_thin:COMPL and today 2-C-become\_fat:COMPL  
 last time you were thin, but now you are fat

*Conjunction of consecutive events*

**á-** is used for the conjunction of consecutive events in narratives. It is typically used to narrate a ‘flow’ of events: ‘and then ... and then ... and then ...’. In this context, clauses introduced by **á-** typically have a Dependent Perfective verb:

**ana kɪt k-á.k-k-ɔ̀ná.t kaɬok n-ɔ̀kón**  
 and wild\_chicken C-be:COMPL-C-bring:COMPL spear with-hand  
**a-kɪt ɔ̀cɛ́ɾɛ.kat kaɬok ɔ̀ɾɛ́ c-ɔ̀-pɪra**  
 CONJ-wild\_chicken make\_stand.LOC:T:DEPPRFV spear bottom C-of-tree  
**a-kw-ɪ́kk.at ŋɔ̀pak**  
 CONJ-3-drink:DEPPRFV beer

and the wild chicken was holding a spear in his hand and the wild chicken made the spear stand against the bottom of the tree and drank beer (‘The story of the jackal’)

A sequence of events can also be placed in the future: this will happen, then this, then this. Here too, the verbs in the clauses introduced by **á-** are Dependent Perfectives:

**an-ámmá k-kw-íɔ̀tɛ́ k-kw-a.pɪra nɔ̀-ká**  
 and-if 3-C-find:COMPL 3-C-become\_good:INCOMPL on-body  
**á-kw-ɔ̀lləkke.kat tɔ̀-cəlɔ́k a-kw-ɔ̀pákk.at ŋ.ŋɪn tuan**  
 CONJ-3-put\_down:DEPPRFV up\_on-neck CONJ-3-return:DEPPRFV with:ABS home

and when he will have found it, he will be happy and he will put it on his shoulders and return home with it (Luke 15:5)

*The conjunctive introducing a complement clause*

With sensory verbs, **á-** introduces a complement clause, as in the two examples below. In the second example, pronominal **ɲ** refers to **ɲokul** ‘children’ (here: ‘girls’).

**akka a-kín órá íttíná a-kín imma**  
 that CONJ.PERS-3A cultivate:DEPINCOMPL so CONJ.PERS-3A see:DEPINCOMPL

**a-tépa t-aá.t**  
 CONJ-lion C-come:COMPL

when they were cultivating like this, they saw that the lion had come ('The story of the jackal')

**ámma η-óccikót.é á-páηón εε ...**  
 if PRO.C-hear:COMPL CONJ-sibling.PL swing:DEPINCOMPL

as soon as they hear (lit.: have heard) their sisters swing them (their singing whips), ... (App. II, 27)

In this context, too, the combination **ana á-** is found:

**ámma ζ-nón t-óccikót.ε λον l-σ-τρράκ**  
 if PERS-2A C-hear:COMPL words C-of-war

**ana a-crk c-σkittákɔ.t ...**  
 and CONJ-place C-be\_destroyed:COMPL

when you hear messages about war and that the place has been destroyed ... (Luke 21:9)

#### 18.2.2. The subjunctive particle **â-** 'so that, in order to'

A clause introduced by the subjunctive particle **â-** 'so that, in order to' contains a Dependent Incomplete or a Completive verb. The Dependent Perfective is possible, but seems rather uncommon in this environment. Subjunctive **â-** is used:

- for the conjunction of a two clauses, with the second expressing the purpose of the first;
- for the conjunction of two clauses, with the second expressing a command to a first, second or third person

**â-** is used in **ámma** +H ... **â-** 'if ... then' constructions. In these constructions the clause introduced by the subjunctive particle typically expresses a (mild) command to second or third person.

The subjunctive particle has the special tonal effect of lowering the high tone that is induced by the 3SG subject clitic and the common noun pronominal subject clitics. This can be seen, amongst others, in the first and second example below.

*Introducing a clause expressing the purpose of the preceding clause.*

Examples of the subjunctive clitic introducing a clause that expresses the purpose of the preceding clause follow here. The verb in the clause introduced by the subjunctive marker is typically a Dependent Incomplete:

**m-p-εε.kát-ók**    **ηópák**    **á-kw-ìkkò**  
 1-C-give:PST-O3      beer      SUBJ-3-drink:DEPINCOMPL

I gave him/her beer to drink

**pul**    **p-εó.t**    **á-p-ιtεt**    **kín**    **ittĩ ...**  
 person    3-C-go:COMPL    SUBJ-PRO-tell:DEPINCOMPL    O3A    that

the person left (in order) to tell them (that) ...

**m-p-a.ik**    **p-a.έ**    **á-n-ɔt-ítto**    **ua**    **nɔ-pirâ**  
 1-C-be:PR    C-go:INCOMPL    SUBJ-1-IT:DEPINCOMPL-pick:DEPINCOMPL    fruit(sp.)    on-tree

I am going to pick *ua*-fruits in the tree

**unte**    **ηεrɪ**    **á-n-ɔnékò**    **makkólók**  
 pour:IMP    water    SUBJ-1-take:DEPINCOMPL    calabashes(k.o.)

pour the water away so that I take (collect) the (empty) calabashes

Also the final high tones of L.HL/L.L.HL verbs are lowered by the subjunctive particle: **â + η + ɔrəpð** > **á-rəpò** and **â + kw + ɔrəkð** > **á-kw-ɔrəkò**. After this, tone bridge is applied:

**aləpaccúṭ w-ɪɛ.káṭe nɔ-cɪkɪt c-ɔŋ itti**  
 jackal C-say:PST on-heart C-POSS3 that

**k-kw-á.mikkət ɲərrónɲ**  
 3-C-deceive:INCOMPL squirrel

**á-rəpó ń-tó-pírá á-kw-ɔṭəkó-kók**  
 SUBJ-(PRO-)move\_down:DEPINCOMPL with-up\_on-tree SUBJ-3-eat:DEPINCOMPL-O3

the jackal said in his heart that he is going to trick the squirrel so that it comes down from the tree so that he (the jackal) can eat it (fr. written story)

In these constructions, subjunctive **â-** can alternatively be preceded by **ɔṭəkka itti** (literally ‘become that’) or just by **itti** ‘that’ (the complementizer **itti** is discussed in 18.7):

**topu i-r-a k-kw-á.k-kw-ɪɪkó.t<sup>16</sup> n-tan ɲ-ɲíɪmak**  
 hole\_in\_ground RES-C-COP 3-C-be:COMPL-C-pass\_entrance:COMPL with-up\_on:ABS with-darkness

**á-kw-aṭ-ɪpət ɔṭəkka itti**  
 SUBJ-3-VEN:DEPINCOMPL-dig:DEPINCOMPL become:DEPINCOMPL that

**á-paṭṭ-ón en-t-ərik áṭ-apət ɫán ...**  
 SUBJ-person-PL DEM-C-NEARADD VEN:DEPINCOMPL-fall\_at:DEPINCOMPL there

the hole in the ground which he had entered when it was still dark in order to dig it (out deeper), so that those persons would come and fall into it ... (‘The story of the jackal’)

*Conjunction of two clauses, with the second expressing a command to a second or third person*

A second clause introduced by **â-** can express a command to second or third person:

**ana ʃabááh<sup>17</sup> á-ɪṭa**  
 and morning SUBJ-(2-)cook:DEPINCOMPL

and in the morning you must cook (asida) (App. IV, 40)

<sup>16</sup> The expected form would be **k-kw-á.p-p-ɪɪkó.t** (< **k-kw-əká.t p-ɪɪkó.t**). Here, however, the verb was realized as **k-kw-á.k-kw-ɪɪkó.t**.

<sup>17</sup> Sudanese Arabic word.

**ana**    **ɔ̌k.kw.í**    **í-p-órrót**                      **ɔ̌-páj**  
 and        the\_one        RES-C-beat:DEPINCOMPL        PERS-sibling

**á-kw-ónókə**                      **kəpa**        **áppik**  
 SUBJ-3-take:DEPINCOMPL        meat        all

and the one who beats his brother, let him take all the meat

The subjunctive particle can be followed by a Dependent Perfective verb. The action/event is then explicitly presented as consecutive:

**ámma**    **k-kw-éɔ̌.t**    **á-kw-ɪɛ.kat**        **kín**        **ittĩ ...**  
 if                      3-C-go:COMPL        SUBJ-3-tell:DEPPRFV        O3A        that

after s/he has arrived (lit.: has gone), s/he must then tell him/her (that) ...

### 18.3. **ámma** + H ‘if, when’

In context, **ámma** + H is always realized with two high tones. This is due to tone bridge spanning from its own initial high to the first high on a following item.

**ámma** + H ‘if, when’ introduces a temporal or conditional clause. The **ámma** + H -clause is typically used in irrealis statements. A first clause with **ámma** + H can be followed by a clause introduced by **ana** + H, by conjunctive **á-**, or by subjunctive **â-** in a construction ‘if, when ... then’. A conjunction morpheme can also be absent from the second clause. There is prosodic boundary before the second clause, so that **ana** + H cannot receive a high tone from a preceding element in this construction. An initial **ámma** + H clause can have a pragmatic high tone (boundary tone) on its last mora (see 3.6). To the same effect, and in spite of the following prosodic boundary, an underlying final falling tone on the last mora of the **ámma** + H clause is generally realized as high.

The verb in an **ámma** + H clause is very often a Completive, but can also be a Present. The verb can also be a Dependent Incompletive; in such cases **ámma** + H is often immediately followed by the conjunctive particle **á-**, but not necessarily so. Incompletives, Pasts and Dependent Perfectives are not attested in clauses introduced by **ámma** + H.

Examples with the constructions **ámma** + H ... **ana** + H, **ámma** + H ... **á-** and **ámma** + H ... **â-** follow here.

**ámma** + H ... **ana** + H ... ‘if/when ... then ...’

**ámmá**      **m-p-á.p-p-íná.t**      **ana** **m-p-á-akkwəṭ-úŋ**  
 if                      1-C-be:COMPL-C-know:COMPL      and      1-C-IRR-kill:COMPL-O2  
 if I had known, I would have killed you

**ámma** + H ... **á-** ... ‘if/when ... then ...’

**ámmá**    **m-p-ólló.t**      **cəruk**    **á-n-íŋke**                      **ṭəṛək**    **tít**  
 if                      1-C-pierce:COMPL      opening    CONJ-1-make\_enter:DEPINCOMPL      rope      in:ABS  
 when I have made a hole, then I pass a thread through it

**ámma** + H ... **â-** ... ‘if/when ... then ...’

**ámmá**    **ŋ-k-ólló.t**      **cəruk**    **á-ŋke**                      **ṭəṛək**    **tít**  
 if                      2-C-pierce:COMPL      opening    SUBJ-(2-)make\_enter:DEPINCOMPL      rope      in:ABS  
 when you have made a hole, you must pass a thread through it

**ámmá**    **k-kw-éó.t**      **á-kw-ŋṭet**                      **kín**      **ittĩ ...**  
 if                      3-C-go:COMPL      SUBJ-3-tell:DEPINCOMPL                      O3A      that  
 when s/he arrives (lit.: has gone), s/he must tell them (that) ...

A conjunction word or clitic introducing the second clause is absent in the following case:

**ámmá**      **ŋ-kw-ŋṭé.t**      **meník**  
 if                      2-C-say:COMPL                      like\_this  
**ɔ-nɪn**      **ṭ-a.ŋállent-ɔŋ**      **ɪ-ləntəró**  
 PERS-1A                      C-urinate\_for:INCOMPL-O2                      in-calabashes(k.o.)

if you say so, we will urinate for you in the calabashes (App. IV, 53-54)

The next example illustrates that a Completive is also used in the **ámma** + H-clause when the clause does not express a finished action and/or a resulting state or situation. The final high tone on **cənéket**

‘there, at that place (not far from the speaker, within sight)’ is a pragmatic high tone at the clause boundary (see 3.6):

**ámma k-kw-óppó.t cónékét ana t̃i t̃-íkkɔ t̃-a.ccókkɔ-t̃-ók**  
 if 3-C-pass:COMPL there and thorn C-may C-catch:INCOMPL-O3  
 when s/he passes there, a thorn may catch him/her

In the next example, **ámma** +H immediately precedes the conjunctive particle **á-**. The verb ‘pass’ is a Dependent Incomplete:

**ámma á-cíŋkí ókkó cík-í-t̃íŋót**  
 if CONJ-sun pass:DEPINCOMPL LOC-in-sky  
**á-kw-íkkɔ cík í-cóŋé c-ɔ-pira**  
 SUBJ-3-sit:DEPINCOMPL VREF in-bottom C-of-tree

when the sun reaches high in the sky, s/he must sit under a tree

**ámma** +H is typically used in situations that have not (yet) happened: counterfactuals, hypothetical situations or situations that can or will happen in the future. In storytelling, however, it is also used in realis descriptions, creating expectation and tension that something is going to happen next. The verb in the **ámma** +H clause is a Dependent Incomplete. Here, **ámma** +H is not immediately followed by the conjunctive particle, because, in connected speech, **a** and **ɔ** coalesce here to **ɔ** (**ámm-ó-kín**):

**ámma ó-kín íkkɔ ŋópak ittíná ...**  
 if PERS-3A drink:DEPINCOMPL beer so

when they were drinking beer like this ... (‘The story of the jackal’)

The **ámma** +H clause can also be the second clause. In this case, too, the verb in the irrealis statement introduced by **ámma** +H is a Complete, Present or Dependent Incomplete. In the latter case the conjunctive particle tends to immediately follow after **ámma** +H. Examples with a Complete verb in the **ámma** +H clause:

**kəllán k-á.ŋákó t̃úŋít ámma k-k-íamâ.t**  
 old\_woman C-eat:INCOMPL food if PRO-C-become\_hungry:COMPL

the old woman will eat food when she is hungry



**m-p-á-anane.t kín tórit ámma m-p-íná.t itti t-t-éllá.t**  
 1-C-IRR.bring\_for:COMPL O3A food if 1-C-know:COMPL that PRO-C-be\_absent:COMPL  
 I would have brought them food if I had known that it was not there

With a Present verb in the **ámma** + H clause:

**n-íttararət ámma ηήτε η-ερεκ η-a.ik η-ωντόματ**  
 2A-help\_each\_other:DEPINCOMPL if work C-some C-be:PR C-hard  
 you must help each other when there is some difficult job

With **ámma á-** and Dependent Incompletive:

**ka k-úrəttá ámma á-rít óréko**  
 body C-be\_woken\_up:INCOMPL if CONJ.PERS-12 work:DEPINCOMPL  
 the body will be woken up when we work (we feel sleepy now, but if we start working we will become awake)

**αρηά άτ-ικκνε<sup>18</sup> ο-ίαρα cik pá.p.ótté**  
 come:IMP.ALLOW CONJ.(2.)VEN:DEPINCOMPL-wait\_for:DEPINCOMPLPERS-mother VREF short\_time

**ámma á-kw-ántán**  
 if CONJ-3-come:DEPINCOMPL  
 come and wait a little time for my mother, if she comes (i.e. maybe she will come) (fr. written story)

Finally, verbless **ámma** + H-clauses were found, but considered not really grammatical by my consultant (JS). It concerns **ámma** + H clauses with a prepositional phrase (first example below). The clause with verb was preferred (second example below). Both have a clause-final pragmatic high tone on ‘four’.

**?ámma ná-ánók w-ócorín a-ól ...**  
 if on-moons C-four CONJ-people  
 when on four months (in April), the people ... (fr. written text)

<sup>18</sup> The conjunctive particle **á** seems involved here. The 2SG pronoun clitic **ή** is deleted between vowels. Derivation: **á** + **ή** + **ατ-ικκνε** > **αάτ-ικκνε** > **άτ-ικκνε** > **άτ-ικκνε**.

**ámmá ánók w-aa.t w-ḫóḫín a-ól ...**  
 if moons C-come:COMPL four CONJ-people

when the months have reached four (when it is April), the people ...

#### 18.4. akka + H ‘that’

**akka** + H ‘that’ can join clauses and also noun phrases. It can function as a complementizer and it can introduce clauses with a temporal or causal interpretation. Whereas a clause introduced by **ámma** + H and a Completive verb typically has an irrealis reading, a cause introduced by **akka** + H with a Completive verb typically has a realis reading. Followed by the conjunctive particle **á-**, **akka** + H can have a negative interpretation (‘and not x’, ‘and so that not x’). Joining noun phrases it expresses ‘or’.

##### 18.4.1. akka + H as complementizer

**akka** + H can also be used as a complementizer:

**l-ḫpərót akka m-p-akənn-elikkə**  
 PRO.C-good that 1-C-NEG-release:DEPCOMPL

it is good that I did not release it

**m-p-əḫəṭ.é akka kéccók k-ín k-ónó aṭəpə cɪk áppɪk**  
 1-C-like:COMPL that market C-POSS1A C-have things VREF all

I like (it) that our market has everything (fr. written story)

The previous examples have a non-dependent verb in the **akka** + H clause, the next a dependent verb (a Dependent Incomplete). The first example below has a two-clause construction with **ámma** + H ... **ana** + H ... ‘if/when ... then ...’ as its complement.

**ana ól w-əḫəṭ.é kannan áḫḫəna akka**  
 and people C-like:COMPL very very that

**ámmá w-éḫ.t ana w-íət ól p-cɪk áppɪk**  
 if PRO.C-go:COMPL and PRO.C-find:INCOMPL people with-place all

and the people like it very much that, when they go (lit.: have gone), they find people from everywhere (fr. written story)

**m-p-əmmá akka ɔ-ʊn<sup>19</sup> ɔkkót**  
 1-C-know\_not:INCOMPL that PERS-1 do:DEPINCOMPL

I don't know what to do (lit.: that I do (it))

**m-p-əmmá akka ɔ-ʊn<sup>20</sup> ákɔ**  
 1-C-know\_not:INCOMPL that PERS-1 wear:DEPINCOMPL

I don't know how to wear it (lit.: that I wear (it) (for example a tobe<sup>21</sup>))

In the next case, **akka** + H complements **təkít** 'before':

**mɛɲcén tó.kít akka t-ɔkurro éɲ-t-í**  
 some\_time\_ago before that NOM-engrave DEM-C-NEARSP

**t-órrən-ɔɾəkkétta.t cɪc-cəné t̩áɾó a-t̩ɔɾít t-á.t-t-ɔpərɔt**  
 C-just\_now-be\_put:COMPL LOC-here T̩aɾu CONJ-food C-be:COMPL-C-good

some time ago, before (that) this writing workshop was organized right here in T̩aɾu, there was enough food (fr. written story)

**akka** + H as complementizer is also part of the constructions **ilên akka** + H 'that's why' (see 8.2.4), **ɲimpén akka** + H 'that's what, that's why' and **tat akka** + H 'that's how' (20.1.2 and 20.1.4). It is furthermore applied in non-subject focus constructions (see 19.2) and in constructions with question words questioning non-subject constituents (see 20.1). These constructions involve left-dislocation of the focussed constituent or the question word, followed by **akka** + H.

#### 18.4.2. **akka** + H with temporal or causal reading

When the first clause of a sentence is introduced by **akka** + H, the second is generally introduced by the conjunctive particle **á-** 'and, while' or by **ana** + H 'and'. This first **akka** + H clause contains a non-dependent verb —often a Completive—, or an adjective, and expresses a realis situation. It can have a temporal or a causal interpretation. The first pair contrast a (realis) **akka** + H clause with an (irrealis) **ámma** + H clause. Note that completiveness of the verb

<sup>19</sup> Realized in connected speech as **mpəmmá-kk-ɔʊn**.

<sup>20</sup> Realized in connected speech as **mpəmmá-kk-ɔʊn**.

<sup>21</sup> Large cloth worn by many Sudanese women. It is wrapped around the body in a specific fashion.

is established by the auxiliary ‘again’ and that there is no prosodic boundary before **ana** in the first example:

**akka** **ŋ-kw-áppór-ómóje** **ána** **ŋ-kw-íó**  
 that 2-C-again:COMPL-steal:DEPINCOMPL and 2-C-die:INCOMPL  
 now that/because you have stolen again, you will die

**ámamá** **ŋ-kw-áppór-ómóje** **ana** **ŋ-kw-íó**  
 if 2-C-again:COMPL-steal:DEPINCOMPL and 2-C-die:INCOMPL  
 if you steal again, you will die

Some examples with a temporal reading of the first clause follow here. In the first, the subjects of the joined clauses are different, in the second and third they are co-referent. The verb in the second clause with co-referent subject is typically a Dependent Perfective, also when the action is not consecutive (last example below).

Note that the final high of **mpaát** ‘I have come’ in the first example shifts (and gets deleted), whereas **kkwáát** ‘s/he had come’ in the second example retains the high tone on its last mora.

**akka** **m-p-aa.t** **a-k-kw-óká.t** **á-kw-ókəṭaccê-k**  
 that 1-C-come:COMPL CONJ-3-C-be:COMPL CONJ-3-watch:DEPINCOMPL-O3  
 when I arrived, s/he was watching him/her

**akka** **k-kw-áá.t** **a-kw-íṛekat** **kín** **itĩ ...**  
 that 3-C-come:COMPL CONJ-3-tell:DEPPRFV O3A that  
 when s/he arrived, s/he told them ...

**maṛót** **akka** **m-p-otté** **cík** **a-n-élikk.at** **liçək**  
 long ago that 1-C-small VREF CONJ-1-release:DEPPRFV goats  
 long ago, when I was small, I released the goats

A particular **akka** +H clause can have both a temporal and a causal reading:

<b>akka</b>	<b>móʔe</b>	<b>m-ɔká.t</b>	<b>cik</b>
that	cultivating_party	C-be:COMPL	VREF
<b>a-pól</b>	<b>ant-íkkɔ</b>		<b>ɲópak</b>
CONJ-person	can:DEPINCOMPL-drink:DEPINCOMPL		beer

when/because there was a cultivating party, the man could drink beer

In the following example, the **akka** +H clause, with Present Continuous verb, has a causal reading:

<b>akka</b>	<b>m-p-a.ik</b>	<b>p-a.eɔ̃</b>	<b>nɔ-karɔ́n</b>
that	1-C-be:PR	C-go:INCOMPL	on-place
<b>ana</b>	<b>ɔ-rit</b>	<b>ɰ-íkkɔ</b>	<b>ɰ-a.kónn-ɔrékɔ</b>
and	PERS-12	C-may	C-NEG-work:DEPINCOMPL

now that/because I am going to that place, we may not be able to do work

The clause introduced by **akka** +H can also be the second clause. The first example below, with Completive verb in **akka** +H clause has a temporal reading:

<b>m-p-ɔká.t</b>	<b>p-úrrən-áɔ</b>	<b>ákka</b>	<b>k-kw-íɔ.t</b>
1-C-be:COMPL	1-C-just_now-come:DEPINCOMPL	that	3-C-died:COMPL

I had just arrived after s/he had died (I was just too late)

Some examples of second **akka** +H clauses with causal reading follow here. Note that in the first, there is a prosodic boundary realized before **akka**. The sentence can also be said without prosodic boundary, in which case ‘tree’ is realized with a final high tone:

<b>m-p-a.ik</b>	<b>p-a.eɔ̃</b>	<b>á-n-ɔɰ-íttɔ</b>			
1-C-be:PR	C-go:INCOMPL	SUBJ-1-IT:DEPINCOMPL-pick:DEPINCOMPL			
<b>ɔa</b>	<b>nɔ-pirâ</b>	<b>akka</b>	<b>w-élla</b>	<b>nɔ-ɔɰɰ</b>	<b>w-ɔ-nɔ-capú</b>
fruits(k.o.)	on-tree	that	PRO.C-be_absent:INCOMPL	on-branches	C-of-on-ground

I am going to collect *kua*-fruits up in the tree because they are not there on the branches near the ground

ɔ-kín    ɬ-á.ík    ɬ-íkkɔt    pól    cík    ákka<sup>22</sup>    p-p-óŋó  
 PERS-3A    C-be:PR    C-sit\_at:INCOMPL    person    VREF    that    PRO-C-ill

they are sitting with the person now that/because he is ill

A conjunction morpheme linking the clauses is absent if the second clause has a hortative pronoun on the verb:

akka    k-kw-áá.t    tír-éš  
 that    3-C-come:COMPL    HRT12-go:DEPINCOMPL

now that/because s/he has arrived, let's go

#### 18.4.3. akka + H introducing a noun phrase

**akka** +H does not always introduce a full clause. In the next examples, where it expresses 'because', it is followed by just a noun phrase. In these cases there is never a prosodic boundary before **akka** + H:

ŋ-kw-a.pállen-m    ákka    tacɔk    t-ín-ɪ<sup>23</sup>  
 2-C-fear\_for:INCOMPL-O1    that    legs    C-POSS1-Q

are you afraid of me because of my feet?

ɔ-kukkó    p-á.ík    p-ímmakɔ    ákka    kápík  
 PERS-Kukkó    C-be:PR    C-shelter:INCOMPL    that    rain

Kukkó is sheltering because of the rain

#### 18.4.4. anakka + H 'and when, and after' and mǝnnakka + H 'and when, and after'

**akka** +H introducing a first clause can be preceded by **ana** +H 'and', forming **anakka** +H. It can have a reading as 'and when' or as 'and because'. Examples:

<sup>22</sup> **akka** can also be realized here with low tones. In that case there is a prosodic boundary before it.

<sup>23</sup> **ɪ** was pronounced with some length and a falling tone, for which I have no explanation.

**an-ákka k-kw-árə̀tok íllo i-ruṭṭərúk**  
 and-that 3-C-still divide\_in\_two:DEPINCOMPL in-pig

**a-kw-ómpun.at nómámá í-n-ó̀pò̀n**  
 CONJ-3-roast:DEPPRFV inside\_of\_pumpkin RES-C-bitter

and when he was still to divide the pig in two, he roasted the bitter inside of a pumpkin (and before he divided the pig in two ...) (fr. written story)

**an-ákka m-p-ə̀nó nə̀rɛ́ n-ə̀-pə̀llá**  
 and-that 1-C-have fear C-of-cat

**ana m-p-a.kkət kát-ṭa cə̀ŋ**  
 and 1-C-do:INCOMPL how-QW UNCERT

and because I am afraid of the cat, what am I going to do?? ('The story of the jackal')

**mə̀nnákkă** consists of **mə̀nnă** 'even' and **ákka** + H. The combination expresses 'when, after' and introduces a clause preceding the main clause. **mə̀nnákkă** can itself again be preceded by **ana** + H 'and'. In the first two examples the second clause is introduced by **á-** and has a Dependent Perfective verb. The last example lacks a conjunction between the two clauses, and has a Past verb in the main clause.

**mə̀nn.ákka k-kw-óná.t ɲáák**  
 when 3-C-bring:COMPL oil

**a-kw-íp.anṭet ṭakə̀ɾok i-ɔ̀rə̀ccò**  
 CONJ-3-dig\_for:DEPPRFV chicken in-feathers

when/after he had brought the oil, he applied it between the feathers of the chicken

**mə̀nn.ákka k-kw-ímmá.t pá-p-én á-p-úrəkə̀ nə̀-kaṛə̀n**  
 when 3-C-see:COMPL thing-C-DEM CONJ-PRO-get\_up:DEPINCOMPL on-place

**ɲ-ká appik a-nə̀rɛ́ óccók.aṭ-òk**  
 with-body all CONJ-fear catch:DEPPRFV-O3

when he saw that thing getting up from the place with its whole body, fear took hold of him (fr. written story)

**mənn.ákka** **ɔ-nɨn** **ʦ-ɔrekɔ.t** **maɾɨ** **m-ɔtté** **ɕík**  
 when PERS-1A C-work:COMPL days C-small VREF

**ɔ-nenni** **p-ɔʦəkkán-ín** **ééré** **ɔ-páŋ-k-ín**  
 PERS-Nenni C-become\_for:COMP-O1 like PERS-sibling-C-POSS1

**ana** **m-p-ɔʦəkkán-ɔk** **ééré** **ɔ-páŋ**  
 and 1-C-become\_for:COMPL-O3 like PERS-sibling

when/after we had worked for some days, Nenni had become like a sister to me and I had become like a sister to her (fr. letter)

#### 18.4.5. akka + H + á- introducing a negative purpose clause

**akka** + H directly followed by conjunctive **á-** can express a negative purpose ‘so that not’:

**ana** **ɔ-nɔn** **ʦ-ellá** **ʦok** **ákka** **a-ʦ-ɔkəɾɔ-kín-í**  
 and PERS-2A C-not\_have:INCOMPL dog that CONJ-PRO-bite:DEPINCOMPL-O1-Q

and you do not have a dog, so that it will not bite me? (fr. written story)

**εε** **kuɾɨ** **ɕɨ.ʦán** **á-ol** **aʦ-ɔntɔ-kɔk** **n-n-a-ón**  
 stab:IMP cry far SUBJ-people VEN:DEPINCOMPL-pull:DEPINCOMPL-O3 with-on-PERS-1

**akka** **a-n-íɔ**  
 that CONJ-1-die:DEPINCOMPL

cry out loudly so that people will come and pull him away from me, so that I do not die (fr. written story)

**ɔ-nɨn** **ákk-əŋkwɔt** **kamuʦe** **k-árrô**  
 PERS-1A FOC-guard:INCOMPL celebration C-of.Lumun\_people

**akka** **a-k-úrat** **ɕík** **ʦúpot** **ʦ-əʦek**  
 that CONJ-PRO-become\_lost:DEPINCOMPL VREF year C-some

we are the ones that take care of the Lumun celebration, so that it will not be lost some year (we are the ones who organize it every year) (fr. song text)



**ṭ-ṭcat**                      **Ṗṓṭin á-urəko**                      **ṇ-ṇírɪmak**  
 IT:IMP-lie\_down:DEPINCOMPL      finally      SUBJ-(2-)get\_up:DEPINCOMPL      with-darkness

**akka a-ṭ-ɔccɔ**<sup>24</sup>                      **nó-ńṭé á-óré**      **ókíttako**  
 that      CONJ-(2-)IT:DEPINCOMPL-receive:DEPINCOMPL on-sleep      SUBJ-work      spoil:DEPINCOMPL

go and lie down now, so that you can get up early in the morning and do not sleep late (and do not take on sleep), so that the work will not be spoilt (fr. written skype conversation)

However, **akka** +H immediately followed by **á-** does not always have a negative purpose reading. In the sentence below the constructions draws attention to the action as a process with some duration:

**m-p-immá.t**      **Ṗol**      **akka**      **a-p-éṣ**                      **ń-túán**  
 1-C-see:COMPL      person      that      CONJ-PRO-go:DEPINCOMPL      with-home

I saw the man while he was busy leaving the house

**m-pimmá.t**      **ɔ-kukkó**      **akka**      **a-kw-ómuje**                      **imít**  
 1-C-see:COMPL      PERS-Kokku      that      CONJ-3-steal:DEPINCOMPL      goat

I saw Kokku while he was busy stealing a goat

In this construction it is, in principle, possible to leave **akka** +H (not **á-**) out. The action is then conveyed as a simple action, not as a process:

**m-p-immá.t**      **Ṗól**      **á-p-éṣ**                      **ń-túán**  
 1-C-see:COMPL      person      CONJ-PRO-go:DEPINCOMPL      with-home

I saw the man leaving the house

When **akka** +H functions as complementizer, a combination with the conjunctive particle **á** appears to be used before a pronoun clitic, (not before full pronouns though, as demonstrated by examples in 18.4.1):

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<sup>24</sup> **a-ṭ-ɔccɔ** (< **á-** + **ṇ** + **ɔṭ** + **ɔccɔ**)

**m-p-əmma**      **ákka**   **a-n-əkəkót**      **kɪn**  
 1-C-not\_know:INCOMPL    that      CONJ-1-do:DEPINCOMPL      O3A

I do not know what to do with them

It must be remarked, that, like after **ámma** +H, some uncertainty remains about presence or absence of the conjunctive particle immediately after **akka**, due to coalescence of the **a**'s across the word boundary.

#### 18.4.6. **akka** +H 'or' linking noun phrases

**akka** +H can also link noun phrases, expressing 'or'. According to my consultant (JS) this is found particularly in the speech of elderly people. Younger people generally use the Arabic loan word **ala** +H 'or' (< Sudanese Arabic *wala*). Two examples follow here.

**lókka**   **akka/ala**   **ɔ-lóttí**      **á.pəllɪn**      **âŋtán**  
 Lókka      that/or      PERS-Lótti      SUBJ.PERS-one\_from\_group      come:DEPINCOMPL

Lókka or Lótti, one of you must come

**ɪcat**      **akka/ala**      **karră**  
 true      that/or      lie

it is true or false

#### 18.5. **ámma**, **ámmakka** +H and **εε** +H '(just) like, as if'

**ámma** and **εε** +H are used for linking a clause and a noun phrase, expressing 'like'. Note that **ámma** 'like' is tonally different from **ámma** +H 'if, when'. There is also **ámmakka** +H 'like', which is a combination of **ámma** and **akka** +H. Some examples follow here.

**aun**   **w-ɪcat**      **ámma**      **kwa**  
 rats    C-be\_abundant:INCOMPL    like      chaff

the rats are many like chaff

**ŋ-kw-ɔn-t-akka**      **ŋ-kw-ɔttékállán**      **éré**      **tóɾék**  
 2-C-why-QW-that      2-C-thin      like      rope

why are you thin like a rope?

**ere ámm.akka ôl**  
 speak:IMP like people

Speak like people! (i.e. 'speak like everybody', 'speak normally')

**ól w-a.rá arəpu ámm.akka tún ana áttópâ**  
 people C-cultivate:INCOMPL things like onion and tobacco

the people cultivate things such as onions and tobacco

The example below has the copula C-á, preceded by the 3SG pronoun clitic, attached to ámmakka:

**k-kw-ámm.akka pól í-p-íná cik**  
 3-C-COP.like person RES-C-know:INCOMPL VREF

he is like a wise man (Matthew 7:24)

ámmakka + H and ere + H can also link two clauses:

**lən r-l-a.kérənnə pól á-p-óká pól**  
 words RES-C-let:INCOMPL person CONJ-PRO-be:DEPINCOMPL person

**ámm.akka p-p-ónət.é**  
 like PRO-C-like:COMPL

things that allow a person to be the person s/he wants (lit.: while s/he is the person in the way s/he wants)

**tər t-əkkwət-ín éré m-p-á.řókó kópá**  
 appetite C-kill:INCOMPL-O1 like 1-C-eat:INCOMPL meat

appetite kills me like (as if) I will eat meat (meaning: I am craving for meat)

In some cases ámmakka rather translates as 'how, the way in which' than as 'like':

**m-p-a.ik p-a.ř-éere nó-cákkōη**  
 1-C-be:PR C-IT:INCOMPL-speak:DEPINCOMPL on-calabash(k.o.)

**ámm.akka ól okorro makkōη**  
 how people engrave:DEPINCOMPL calabashes(k.o.)

I am going to talk about the calabash, how the people decorate calabashes (App. III, 2-3)

**ana l-el-l-i ámm.akka l-érét-ók l-ókítak**  
 and C-DEM-C-NEARSP like PRO.C-speak\_about:COMPL-O3 C-bad

and these (words), the way they (the words) spoke about him, were bad (i.e. the words were bad)

### 18.6. **məno** ‘until’, **məna** ‘until’

**məno** and **məna**<sup>25</sup> both express ‘until’. It seems that they can be used interchangeably. They are immediately followed by the conjunctive particle **á-** and the clause they introduce contains a Dependent Perfective or Dependent Incomplete verb. They are (probably) both low-toned, but are often realized high due to tone bridge. A case of **məno** with high tones which cannot be ascribed to tone bridge is presented here as well. The first high tone there is from regular tone shift, while the second (probably) is a boundary tone of the same type as can be found at the end of a first **ámma** +H or **akka** +H-clause (see chapter 3.6). Some examples with **məno**:

**a-tómóccó óném.at kaɔok i-tón t-ó-pá-p-én**  
 CONJ-old\_man press:DEPPRFV spear in-mouth C-of-thing-C-DEM

**mónó á-p-í.at**  
 until CONJ-PRO-die:DEPPRFV

and the old man pressed the spear into the mouth of that animal (the leopard) until it died (fr. written story)

**ámmá árró w-ó.t i-cekérek tóɔí**  
 if Lumun\_people C-descend:COMPL in-price Tóɔí

**mónó á-kín ikkə ɲəɲi n.ti i-rók...**  
 until CONJ.PERS-3A drink:DEPINCOMPL water from in-water\_place

when the Lumun people have descended to the market in Tóɔí until they drink water from the well (then ...)(situation: the Lumun descend to the market, reach the Tocho area in the valley and drink water from the well of the Tocho people, when this happens then ... )

**məno** and **məna** are often used in combination with **púccok** ‘for some time’. The combination generally translates just as ‘until’:

<sup>25</sup> There is also **məna** ‘even’ (mentioned in 17.1.4).

**ɲɔkɔl ɲ-ɔppɛ́t.ɛ ʦɔntərrɔ ɲæ púccók**  
 children C-fill:COMPL calabash(k.o.) urine for\_some\_time

**mónó á-ɲkat<sup>26</sup> ɪ-pɔʦút**  
 until CONJ-(PRO-)go:DEPPRFV in-middle

the children filled the calabash with urine until it was half-full (i.e. until the urine went half-way)

The next example has the aforementioned boundary tone. Interestingly, the across-word boundary sequence **k-m** (**lɪcək mónó**) was not pronounced as the expected [m] (with full deletion of the final obstruent before the nasal), but as [ŋ], with the nasal adopting the place of articulation of the preceding (deleted) obstruent: [lɪjo-ŋónó]. The nasal discourse enclitics **-na** and **-mé** (see under 17.2) display the same type of assimilation.

**a-n-úre.kat nɔ-lɪcək mónó**  
 CONJ-1-forget:DEPPRFV on-goats until

**a-l-ɔʦəkkanʦɛt pól p-əʦɛk mɪl**  
 CONJ-PRO-eat\_for:DEPPRFV person C-some sorghum

and I forgot about the goats until they ate somebody's sorghum

In the following construction **mɔnɔ** is not followed by **á-** but immediately by a Dependent Incomplete verb. The **mɔnɔ**-clause here is part of a complex two-clause construction introduced by **ámma** + H:

**ámma ɔ-rón ʦ-éɔ.t mónó ɔʦ-íɔt ana ...**  
 if PERS-12A C-go:COMPL until IT:DEPINCOMPL-find:DEPINCOMPL and

when we will have found it, then ... (lit.: when we have gone until going and finding (it), then ...)

<sup>26</sup> The high tone is due to deletion of pronominal **ɲ** (which causes the high tone to change from **ɪ** to **ɔ**) followed by vowel assimilation and vowel shortening (**á- + ɲ- + ɔɲkat** > **á- + ɲóɲkat** > **áɔɲkat** > **ááɲkat** > **áɲkat**)

18.7. The complementizer **ittĩ** ‘that’

The common complementizer, typically used with verbs of speech but also in other contexts, is **ittĩ** ‘that’. **ittĩ** contains a formative **tĩ**, which also occurs, amongst others, in the defective verb **attĩ** ‘I hope’ (see 12.21). **ittĩ** can also serve as a purposive conjunction between two clauses expressing ‘so that, in order to’. As such it can alternate with **ɔtʰəkkə ittĩ** ‘so that, in order to’ (literally: ‘become that’).

With some verbs the use of **ittĩ** introducing the complement clause is obligatory, with some others it is optional. **ittĩ** is not used with sensory verbs. As described earlier in this chapter, such situations are construed with the conjunctive particle **á-** ‘and, while’: ‘I saw X, while s/he ...’.

A clause introduced by **ittĩ** contains a subject and a non-dependent verb:

<b>m-p-änn-aŋkət</b>	<b>ittĩ</b>	<b>m-p-ítta</b>
1-C-NEG-want:DEPCOMPL	that	1-C-get_married:INCOMPL
I do not agree to get married		

Examples of **ittĩ** in different contexts follow here.

***ittĩ** introducing the complement of a speech verb*

Verbs of speech and speech content are connected through **ittĩ**, independent of whether the speech content is direct speech or indirect speech. An example with direct speech and one with indirect speech follow here:

<b>ittiná</b>	<b>k-kw-ákkar.áŋɛ</b>	<b>ɔ-íára</b>	<b>ittĩ</b>
so	3-C-call:PST	PERS-my_mother	that
<b>íára</b>	<b>ant-áo</b>		
mother	can:DEPINCOMPL-come:DEPINCOMPL		
so s/he called my mother: “mother, please come”			

**m-p-ᵛká.t**      **ᵛík**      **a-n-ᵛmentet-ᵛk**      **ittī**  
 1-C-be:COMPL      VREF      CONJ-1-tell.PLUR:DEPINCOMPL-O3      that  
**k-kw-á.kərənno**      **karrǎ**  
 3-C-let:INCOMPL      lie

I was always telling him/her that s/he should not lie

Complement clauses with an embedded question are linked to a preceding clause with a speech verb through **ittī** (first example below); not, however, when the locative relative **ná** ‘where’ is used (second example).

**ᵛ-kín t-ᵛᵛᵛᵛᵛ.é**      **tít**      **íttí ᵛᵛmpén**      **akka**      **ᵛ-kín**      **ᵛkkōt**  
 PERS-3A C-answer:COMPL in:ABS that what that PERS-3A do:DEPINCOMPL  
 they answered saying what they would do

**k-kw-á.kənn-ᵛᵛe**      **na**      **k-kw-áa.t**      **ᵛ.ᵛᵛᵛ**  
 3-C-NEG-say:DEPCOMPL      where:REL      3-C-come:COMPL      with:ABS  
 s/he did not say where s/he came from

*Complementing ᵛᵛᵛᵛ ‘like, want’*

The verb **ᵛᵛᵛᵛ** ‘like, want’ and its clausal complement can be linked through **ittī** but also through **akka** + H. With **ittī**, the verb expresses desire (‘want’), with **akka** + H appreciation (‘like’). Compare:

**m-p-ᵛᵛᵛᵛ.é**      **ittī**      **kéccók**      **k-ᵛᵛn**      **k-ᵛᵛnó**      **aᵛəpυ**      **ᵛík**      **áppík**  
 1-C-like:COMPL      that      market      C-POSS1A C-have      things      VREF      all

I want our market to have everything

**m-p-ᵛᵛᵛᵛ.é**      **akka**      **kéccók**      **k-ᵛᵛn**      **k-ᵛᵛnó**      **aᵛəpυ**      **ᵛík**      **áppík**  
 1-C-like:COMPL      that      market      C-POSS1A C-have      things      VREF      all

I like it that our market has everything

Compare also the following examples. ‘I like meat’ is expressed with a nominal phrase as complement and without complementizer. ‘I want meat’, on the other hand, is expressed with a verbal complement clause and **ittī**.





... **a-n-íkk-at** **cík** **pá.p.ótté** **a-n-óttí.at**  
 CONJ-1-sit:DEPPRFV VREF short\_time CONJ-1-find:DEPPRFV

**a-n-íttimat** **n.tí** **í-kít**  
 CONJ-1-become\_dark:DEPINCOMPL from in-eyes

... I sat for a while and found (experienced) that I was getting blind

**C-ónó ittí** ‘must’

**ittí** is obligatory in the expression **C-ónó ittí** ‘must’ (‘have that’):

**η-kw-ónó** **ittí** **η-kw-a.ccíkat**  
 2-C-have that 2-C-hear:INCOMPL

you must listen

*With evaluating adjectives*

**ittí** complements evaluation adjectives such as ‘good’ and ‘forbidden’. In the first example the pronominal proclitic **l** refers to **lɔn** ‘words, matters’, in the second **pa** is short for **papɔ** ‘thing’.

**l-ópərót** **ittí** **η-kw-aá.t**  
 PRO.C-good that 2-C-come:COMPL

it is good that you have come

**pa-p-óttón** **ittí...**  
 thing-C-forbidden that

it is forbidden that ...

**ittí** complementing **ittiná** ‘so, like this’

When **ittiná** ‘so, like this’ is complemented, **ittí** must be present:

**m-p-ónṭa** **akka** **m-p-əṅakót.ε** **ittiná** **ittí ...**  
 1-C-why that 1-C-be\_loved:COMPL so that

why I am so loved that ...

**ittí** complementing **ámma** + H ‘if, when’

**ámma** + H ‘if, when’ can be complemented by a clause with **ittĩ**:

**an-ámmá**      **íttĩ**                      **η-η-ókkwó.r-ín**      **η-cík**  
and-if                      that                      PRO-C-hit:COMPL-O1                      with-VREF

**á-εέ**                                      **kurĩ**      **cík-r-ṭṭṛṣṭ**  
SUBJ-(PRO-)stab:DEPINCOMPL      cry                      LOC-in-sky

and if it will be so that he (the rabbit *ηatt̄arape*) has hit me down, you must cry out in the sky (fr. written story)

*ittĩ* introducing the complement of a noun phrase

**ittĩ** can also introduce an elaboration on generic nouns, including **lɔn** ‘words, matters’ and **papo** / **arəpu** ‘thing / things’.

**ɔ-nennĩ**   **p-íccá**      **p-ónó**      **lɔn**      **ittĩ**      **k-kw-ânṭan-î**  
PERS-Nenni      C-still                      C-have                      words                      that                      3-C-come:INCOMPL-Q

is Nenni still planning to come?

**ana**      **árəpu**   **w-ɔ-rua**      **w-ɔká.t**      **ittĩ**      **ṭok**      **ána**      **túṭṭeruk**  
and                      things                      C-of-hair                      C-be:COMPL                      that                      dog                      and                      pig

**ana**      **pá-p-ɔ-kira**      **ana**      **umaṭṭṛn**  
and                      thing-C-of-trees                      and                      elephant

and the animals were the dog, the pig, the leopard and the elephant

The noun **kəran** ‘name’ is complemented by **ittĩ**:

**η-kw-ɔccó.t**      **kəran**      **ittĩ**      **óṭ-ṭa**  
2-C-receive:COMPL                      name                      that                      PERS.3-QW

what is your name?

**m-p-ɔnó**      **kəran**      **ittĩ**      **ɔ-kumâṇ**  
1-C-have                      name                      that                      PERS-Kumaṇ

my name is Kumaṇ

*ɔṭkka ittĩ* ‘so that, in order to’ / *ittĩ* introducing a purpose clause

*ɔṭkka ittĩ* (literally ‘become that’) expresses ‘so that, in order to’. In these cases, alternatively, just *ittĩ* can be used:

**ɔ-kukkó** **p-á.ík** **p-á.líkine** **ɔ-kakká** **cík**  
PERS-Kukku C-be:PR C-stop:INCOMPL PERS-Kakka VREF  
**(ɔtʰókka)** **ittí** **ɔ-kín** **t-íkkɔ** **cík**  
become:DEPINCOMPL that PERS-3A C-sit:INCOMPL VREF

Kukku is stopping Kakka in order to sit together

**m-p-ɔká.t** **p-έ.t** **ittí** **m-p-a.t-ícat**  
1-C-be:COMPL C-go:COMPL that 1-C-IT:INCOMPL-lie\_down:DEPINCOMPL  
**a-n-ɔccɛ́k.at** **pól** **p-əɾek** **a-p-ɔ́ɔ**  
CONJ-1-hear:DEPPRFV person C-some CONJ-PRO-cry:DEPINCOMPL

I had just left (in order) to go and sleep when I heard a person cry

As mentioned in the section on the subjunctive particle **â-**, **ɔtʰókka** **ittí**, or just **ittí** can be followed by **â-**. In such cases the verb is a Dependent Incompletive:

**ɔ-kukkó** **p-á.ík** **p-á.líkine** **ɔ-kakká** **cík**  
PERS-Kukku C-be:PR C-stop:INCOMPL PERS-Kakka VREF  
**(ɔtʰókka** **ittí / ittí)** **á-kín** **íkkɔ** **cík**  
become:DEPINCOMPL that that SUBJ.PERS-3A sit:DEPINCOMPL VREF

Kukku is stopping Kakka in order to sit together

*ittí introducing the phrasal complement of a question word*

**ittí** introduces the complement of the fronted question word **ɲínɬa** ‘what’ if this complement is a noun phrase. By contrast, a clausal complement of **ɲínɬa** is introduced by **akka** +H. The next example contains both:

**ɲín-ɬa** **ittí** **t-ɔmekɔ**  
what-QW that NOM-be\_scarified  
**ána** **ɲín-ɬa** **akka** **ól** **ɔmékine**  
and what-QW that people be\_scarified\_for:DEPINCOMPL

what is scarification and why (lit. for what) are people being scarified?

*ittí preceding the question word ‘how’*

‘How’-questions generally involve **ittí**:

**ŋ-kw-a.ɪk**   **p-a.ɛ̃**   **itti**   **káŋ-ŋa / táŋ-ŋa**  
2-C-be:PR   C-go:INCOMPL   that   how-QW / how-QW

how will you be going (i.e. by which road or path)

Some further examples with question words are given in chapter 20.

## 19. Focus

This chapter discusses subject focus marking and constructions for focusing constituents other than subjects.

### 19.1. Subject focus marking

Subject focus constructions involve the focus marker **akk-** or alternatively, a marker that is (synchronically) analysable as **a-C-C-**, having a double concord agreeing with the subject. Both **akk-** and **a-C-C-** may have developed from an earlier form **\*ak-C-** (related to **ɔkâ** ‘be’?). In this scenario the form would historically not involve double concord. The only other case in the language that might involve double concord is the associative marker **attot/áttót** (see 6.8) (including the associative + numeral **at-C-ut-NUM/át-C-út-NUM**, see 10.4.2). Here too, a development from **at-C-ut**, rather than a historical form with double concord, seems the more likely possibility.

The construction **a-C-C-** is mainly used in **Tɔɾəmaɾɔ̃n**, whereas in **Ṭaɾu** and **Ṭɔɾɪ** mostly **akk-** is used. **akk-/a-C-C-** is attached to a non-dependent verb (an Incompletive, a Completive, or the Present of ‘be’) or adjective, replacing its concord. The focus marker can receive a high tone from a preceding element. It cannot be excluded that it has a floating high tone of its own, however, if such a tone were there it would not have an opportunity to be realized, because the verbs to which the focus marker can be attached always have a high tone. I therefore consider **akk-/a-C-C-** as low-toned. Compare the two pairs of examples below. The second example of each pair has (contrastive) subject focus.

<b>ṭakəɾuk</b>	<b>ṭ-aa.t</b>	<b>n-ṭe-ṭṭók</b>
chicken	C-come:COMPL	with-at-fenced_place_for_livestock

the chicken came out of the animal shelter

**ʦakəɾʊk ákk-aa.t / á-ʦ-ʦ-aa.t n-ʦe-ʦʦök**  
 chicken FOC-come:COMPL FOC-C-C-come:COMPL with-at-fenced\_place\_for\_livestock  
 the *chicken* came out of the animal shelter (it was the chicken who came out of the animal shelter)

**ɔ-íáíá p-íná**  
 PERS-my\_mother C-know:INCOMPL  
 my mother knows it

**ɔ-íáíá ákk-íná / a-p-p-íná**  
 PERS-my\_mother FOC-know:INCOMPL / FOC-C-C-know:INCOMPL  
 my *mother* knows it (it is my mother who knows it)

In the next example the focus marker is attached to an adjective:

**em-p-i ákk-ɔpəɾɔt**  
 DEM-C-NEARSP FOC-good  
*this one* is good (also: this one is the best)

In a focus-construction the full form of the subject pronoun is used instead of the pronominal proclitic:

**ŋ-kw-á.mente itti ɔ-ʊn ákk-a.ɲóle kappəŋtína**  
 2-C-say.PLUR:INCOMPL that PERS-1 FOC-eat.PLUR:INCOMPL groundnut\_paste  
 you are always saying that it is me who is always eating groundnut paste (but now it is you who has been eating groundnut paste)

In some constructions of auxiliary and main verb the focus marker can precede the main verb, the auxiliary or both:

**ɔ-kín ákk-íra ʦ-a.nán-ʊŋ lón appík**  
 PERS-3A FOC-should C-bring\_to:INCOMPL-O2 words all  
 it is them that should explain everything to you

**ɔ-kín ʦ-íra ákk-a.nán-ʊŋ lón appík**  
 PERS-3A C-should FOC-bring\_to:INCOMPL-O2 words all  
 it is them that should explain everything to you

**ɔ-kín**   **akk-íra**   **akk-a.nán-ɔŋ**   **lón**   **appík**  
PERS-3A   FOC-should   FOC-bring to:INCOMPL-O2   words   all

it is them that should explain everything to you

This is not the case in verbal complexes with an auxiliary of ‘be’. They have the focus marker on the auxiliary:

**ɔ́t-ɬa**   **akk-a.ík**   **p-a.kek-óŋ**  
PERS.3-QW   FOC-be:PR   C-shave:INCOMPL-O2

who is shaving you?

Question words replacing the subject use the same focus markers **akk-/a-C-C-** (example above). More examples are provided in chapter 20.1.1 and 20.2.2.

Contrastive negative focus of the subject (‘it is/was not X’) is expressed by Dependent Incomplete negated ‘be’ (‘not being’) preceding the subject and **akk-/a-C-C-** on the verb:

**ɔ́kórónn-ɔ́ká**   **pa-p-ɔ-kíra**   **akk-ɔ́kíccé.r-óŋ**  
NEG:DEP-be:DEPCOMPL   thing-C-of-trees   FOC-chase:COMPL-O2

it was not a leopard that chased you (‘A boy and a goat’)

## 19.2. Non-subject focus marking

Constituents other than the subject are contrastively focussed through left dislocation followed by **akka** +H ‘that’ and the rest of the clause. Two examples with focussed objects follow here:

**íkkərə**   **lɪcɔk**   **ákka**   **ŋ-kw-immâ.t**  
perhaps   goats   that   2-C-see:COMPL

it seems you saw *goats* (it was goats that you saw (and not a leopard)) (‘A boy and a goat’)

**a-a**   **kəllán**   **akka**   **ɔ-kökkú**   **p-ɪp.ántét**   **áôn**  
no-REDUP   old\_woman   that   PERS-Kökkú   C-collect\_for:PST   bees

no, Kökkú collected honey for the *old woman* (it is for the old woman that Kökkú collected honey)

Unlike the subject focus marker **akk-**, **akka** +H has no variant that can agree with the element on which it puts focus. **akka** +H in non-subject focus constructions functioning as complementizer seems to be the same element as the conjunction word **akka** +H. If and how **akka** +H and the focus markers **akk-/a-C-C-** (which replace the verbal or adjectival concord) historically relate to each other is not clear.

The possessor noun from a connexive construction is focused in the first example below, the noun from a prepositional phrase in the second. The connexive (first example) and preposition (second example) remain in place in their absolute form.

**ʔakəɽʊk**   **ákka**   **m-p-ɔɽəkɔ.t**   **ʔúnke**   **ʔ-ɛn**  
 chicken   that   1-C-eat:COMPL   liver   C-of:ABS

I ate the liver of the *chicken* (it was of the chicken that I ate the liver)

**kaɽər**   **k-ɔ-ʔɔɽɪ<sup>27</sup>**   **akka**   **m-p-ɔkəttɔ.t**   **ɪ-a-kumán**   **tít**  
 road   C-of-ʔɔɽɪ   that   1-C-run\_into:COMPL   in-PERS-Kumán   in:ABS

it was on the road to ʔɔɽɪ that I ran into Kumán

In coordinated clauses locative adjuncts can also be contrasted without **akka** +H, namely through fronting of the adjunct in the second clause. ‘Khartoum’ in the first clause can be left-dislocated as well, but the sentence as given below was preferred. It was elicited with ‘in Khartoum the water ..., but in Lumun country the water ...’.

**ɲəɽɪ**   **ɲ-á.ɽʊɲkwət**   **nɔ-capu**   **kârəttôm**  
 water   C-remain:INCOMPL   on-ground   Khartoum

**ana.rruk**   **tórró**   **ɲ-ɲ-íntat**   **cɪk**   **cókɔc-cəkət**  
 but   Lumun\_country   PRO-C-disappear:INCOMPL   VREF   quickly-REDUP

in Khartoum the water remains on the ground, but in Lumun country it disappears quickly

<sup>27</sup> Several paths go to ʔɔɽɪ, coming from different places, as well as taking a different course. Which road is meant must be understood from the context.



## 20. Question words and particles

In this chapter I discuss pronominal, adverbial, clausal and modifying content question words, as well as the marking of polar questions.

### 20.1. Content question words

Lumun has pronominal, adverbial, clausal and modifying content question words. Modifying question words always have a concord. The pronominal, adverbial and clausal question words are listed in table 105, the modifying question words in table 106. Question words can be divided into those ending in the question word marker **-ṭa** (first columns of both tables), the same forms without **-ṭa** (second columns), and question words containing the (concord and) demonstrative pronominal base (C)-**en** (third columns).

Table 105 Content question words

	<i>ending in -ṭa</i>	<i>without -ṭa</i>	<i>ending in (C)-en</i>
<i>pronominal</i>	<b>ṣṭṭa/ṣṭṭân</b> ‘who’		<b>ṣkkwên/ ṣkkwéṅôn</b> ‘who’
	<b>ḡínṭa</b> ‘what’		<b>ḡimpên</b> ‘what’
<i>clausal</i>	<b>akkaínṭa, akaínṭa</b> ‘why’	<b>akkaîn, akaîn</b> ‘why’	
<i>adverbial</i>	<b>karəṭâ, karəṭa</b> ‘where’		<b>kəren</b> ‘where’
	<b>acínṭa</b> ‘when’	<b>acîn</b> ‘when’	
	<b>táṭṭa, káṭṭa</b> ‘how’	<b>tât, kât</b> ‘how’	
	<b>akkáratṭa</b> ‘what time’	<b>akkárat</b> ‘what time’	

Table 106 Modifying content question words

<i>ending in -ṭa</i>	<i>without -ṭa</i>	<i>ending in (C)-en</i>
C-ṣṭṭa/C-ṣṭṭân 'whose'		C-ṣkkwên/ C-ṣkkwéṅṅn 'whose'
C-ṣínṭa 'what kind of'	C-ṣîn 'what kind of'	C-ṣimpên 'what'
C-árṭa 'where'		C-áren 'where'
C-aráṭṭa 'how'	C-árat 'how'	
C-ṣṭénṭa 'for what purpose, why'	C-ṣṭên 'for what purpose, why'	
C-ṣnṭa 'why'		
C-ṣrənṣṭṭa 'how many'	C-ṣrənṣk 'how many'	
C-iaṭâ 'which'	C-ia 'which'	

### *Morphophonology*

Before **akka** +H and before the subject focus marker (**akk-** or **a-C-C-**, see 19.1), the final **a** of the question word marker **-ṭa** is deleted and the question word and the complementizer/focus marker fuse together, e.g.,

ṣṭṭa akk- [ṣṭak<sup>h</sup>]  
 ṅínṭa akka [ṅínḁaka]

### *Use of the question words*

Question words ending in **-ṭa** are typically used in neutral questions for information. They can be employed rhetorically. The question words lacking **-ṭa** are used in:

- 1) quick and informal (interruptive) inquiries after a further detail;
- 2) questions that solicit no answer, communicating a negative view of the speaker. Some emotion is typically involved.

Some of the question words without **-ṭa** are used in complement clauses. In that environment they are used in a neutral way.

Question words ending in **-ṭa** have their own intensifying adverb **ṭpu**, or **-ppu**, which gives a sense of urgency to the question. An example was provided in 17.1.4.

Because one way of question formation involves left-dislocation of the content (non-subject) question word, the word order in neutral affirmative statements is recalled here: S V O Adj.

*Position in the clause and question constructions*

Question words can be used alone. With a verbal or adjectival predicate, they occur in one or two of the following positions or constructions:

- in situ. Subject question words, which always remain in situ, are followed by the focus marker **akk-** replacing the subject concord;
- left-dislocated before the subject. In these constructions the question word is followed by **akka** + H ‘that’ or, in case of ‘where’, by the locative relative **ná**;
- at the right edge of the clause, preceded by **ittĩ** ‘that’.

Next to being used in situ, several of the question words in the first column of table 105 allow for a clause-initial construction with **akka** + H, as do **ṭkkwên** ‘who’ and **ṭimpên** ‘what’ (third column). The forms without **-ṭa** (second column) are not used clause-initially with **akka** + H. **karṭâ** ‘where’ can be used clause-initially, but is then followed by the locative relative **ná** (see 11.3).

A question with a question word in situ and the same question with an **akka** + H -construction follow here.

<b>ṭkul</b>	<b>w-a.ṭəkə</b>	<b>ṭín-ṭa</b>
child	C-eat:INCOMPL	what-QW

what will the child eat?

**ŋín-ṭa akka úkól ʒɹəkô**  
 what-QW that child eat:DEPINCOMPL

what will the child eat?

The verb in a clause introduced by the complementizer **akka** +H or the locative relative **ná** is either a Dependent Incompletive, a Completive, the Present of ‘be’, or a complex verb of which the (first) auxiliary verb is a Dependent Incompletive, a Completive, or the Present of ‘be’. By contrast, the focus marker **akk-** precedes a non-dependent verb. An example of the latter:

**ʒṭ-ṭa akk-a.ɹəkô**  
 PERS.3-QW FOC-eat:INCOMPL

who will eat it?

Modifying question words come after the noun or noun phrase they modify. C-**ʒnta** ‘why’ modifies subjects, which it directly follows, and precedes a clause introduced by **akka** +H (see 20.1.7).

Several modifying question words can modify personal pronouns: C-**ʒtta**, C-**ʒttân** ‘whose’, C-**ɔkkwên**, C-**ɔkkwéŋôn** ‘whose’, C-**árəṭa** ‘where’, C-**âren** ‘where’, C-**arátta** ‘how’, C-**arât** ‘how’, C-**ʒnta** ‘why’, C-**ɔrənóttá** ‘how many’, C-**ɔrənôk** ‘how many’ (examples are given in this chapter).

Examples illustrating the meaning and use of question words as well as constructions in which they occur are provided in sections 20.1.1 to 20.1.9. The question words are grouped together mainly on the basis of shared lexical formatives. This gives the following clusters:

- **ʒtta**, **ʒttân** ‘who’, **ɔkkwên**, **ɔkkwéŋôn** ‘who’, C-**ʒtta**, C-**ʒttân** ‘whose’, C-**ɔkkwên**, C-**ɔkkwéŋôn** ‘whose’;
- **ŋínṭa** ‘what, why’, **akainṭa/akkaínṭa** ‘why’, **akain/akkaín** ‘why’, **ŋimpên** ‘what’, C-**ɔínṭa** ‘what kind of’, C-**ɔín** ‘what kind of’, C-**ɔimpên** ‘what’;
- **karəṭâ /karəṭa**, **kəren**, C-**árəṭa** ‘where’, C-**âren** ‘where’; **acínṭa** ‘when’, **acín** ‘when’;
- **tátta/kátta** ‘how’, **tát/kát** ‘how’, C-**arátta** ‘how’, C-**arát** ‘how’;

- **akkáraṭta** ‘what time of the day’, **akkárat** ‘what time of the day’;
- C-**ɔ́ṭéṇta** ‘for what purpose, why’, C-**ɔ́ṭén** ‘for what purpose, why’, C-**ɔ́nṭa** ‘why’;
- C-**ɔ́rəṇótṭa** ‘how many’, C-**ɔ́rəṇɔk** ‘how many’;
- C-**ɪaṭâ** ‘which’, C-**ɪa** ‘which’

### 20.1.1. ‘who’ and ‘whose’

**ótṭa/ótṭân** ‘who’, **ɔkkwên/ɔkkwéŋŋn** ‘who’, C-**ótṭa**, C-**ótṭân** ‘whose’ and C-**ɔkkwên**/C-**ɔkkwéŋŋn** ‘whose’ share a formative (based on) **ɔ́k** ‘s/he’ (including the persona prefix). Though in these forms the sequence **ɔ́** has been shortened to **ó**, I will gloss the formative as PERS.3

#### **ótṭa/ótṭân** ‘who’

**ótṭa** is made up of a formative based on **ɔ́k** ‘s/he’, including the persona prefix (**ó-**), and the question word marker **-ṭa**. It has a plural which is formed through attachment of the plural suffix **-ŋŋn** of nouns with the persona prefix: **ótṭa** + **-ŋŋn** > **ótṭân**.

**ótṭa/ótṭân** is used in different syntactic functions: subject, object, as part of a prepositional phrase. The syntactic function determines which construction(s) is/are possible. In the examples below, it functions as the subject of a verbless clause:

**ótṭ-ṭa**      **p-ɛn**  
PERS.3-QW      C-DEM

who is it? (i.e. whom are you talking about?)

**ótṭ.ṭá-n**      **én-ṭ-í**  
who-PL      DEM-C-NEARSP

who are they? (lit.: who are these? For example about people who are present, or while pointing at people in a picture)

When **ṣṭṭa/ṣṭṭân** replaces the subject of a verbal or adjectival clause, a focus construction with **akk-is** is required, or alternatively, with **app-** for the singular and **att-** for the plural (see 19.1):

**ṣṭ-ṭa**      **a-p-p-ərîk**  
 PERS.3-QW      FOC-C-C-big

who is the biggest?

**ṣṭ-ṭá-n**      **á-ṭ-ṭ-aá.t**  
 PERS.3-QW-PL      FOC-C-C-come:COMPL

who (PL) came?

**ṣṭ-ṭa**      **akk-a.kkót**      **ḡərə**  
 PERS.3-QW      FOC-do:INCOMPL      work

who will do the work?

As an object, **ṣṭṭa/ṣṭṭân** can be used in situ (first and second example below) or fronted in a construction with the complementizer **akka** + H (third example below):

**ṣ-kín**      **ṭ-ṭ-ṭ.é**      **ṣṭ.ṭá-n**      **nṓ.ppan**  
 PERS-3A      C-find:COMPL      who:QW-PL      inside

who(PL) did they find inside?

**ḡ-kw-a.ík**      **p-a.llíne**      **ṣṭ-ṭa**  
 2-C-be:PR      C-run\_for:INCOMPL      PERS.3-QW

whom are you running from?

**ṣṭ-ṭa**      **akka**      **ḡ-kw-a.ík**      **p-a.llíne**  
 PERS.3-QW      that      2-C-be:PR      C-run:INCOMPL

whom are you running from?

After a preposition, the initial vowel **ṣ** of **ṣṭṭa/ṣṭṭân** changes into **a**, in the same way as the persona prefix **ṣ-** in pronouns, personal names and kinship and relational terms (see 4.10.1). The question word can be used in situ, but can also be fronted followed by **akka** + H. In the latter case, preposition and question word are separated: the preposition remains in place adopting its absolute form (second example below).

**ɔ-kín**      **ṭ-ɔṭṭé.t**      **n-át.ṭa-n**  
 PERS-3A      C-leave:COMPL      on-who-PL

who (PL) did they leave behind?

**ɔṭ-ṭa-n**      **akka**      **ɔ-kín**      **ṭ-ɔṭṭé.t**      **nán**  
 PERS.3-QW-PL      that      PERS-3A      C-leave:COMPL      on:ABS

who (PL) did they leave behind?

A special use of **ɔṭṭa** is found in a question about names. This requires a construction with the complementizer **itti**:

**ŋ-kw-ɔccó.t**      **kəṭan**      **itti**      **ɔṭ-ṭa**  
 2-C-receive:COMPL      name      that      PERS.3-QW

what is your name? (lit.: you have received the name that who?)

**ɔṭṭa/ɔṭṭân** can, apparently, be used in complement questions, at least in some cases. The following sentence was not rejected:

**m-p-ɔmma**      **itti**      **ɔṭ-ṭa**      **akk-aa.t**      **cɪt.tó.kít**  
 1-C-not\_know:INCOMPL      that      PERS.3-QW      FOC-come:COMPL      firstly

I do not know who came first

Commonly, however, **ɔkkwên/ɔkkwéŋôn** ‘who’ is applied in complement clauses (unless the complement clause represents direct speech).

**ɔkkwên/ɔkkwéŋôn** ‘who’

**ɔkkwên** ‘who’ contains a formative based on **ɔɔk** ‘s/he’, including the persona prefix **ɔ-**, and the concord **p-** (agreeing with **ɔɔk**) + demonstrative pronominal base **en** (see 8.1). As elsewhere, the realization of the sequence of pronominal **k** and concord **p** deviates from general phonological rules, being realized as [k<sup>w</sup>] instead of as [p]. The plural of **ɔkkwên** is formed with **-ŋôn**: **ɔkkwéŋôn**.

Though **ɔkkwên/ɔkkwéŋôn** already contains **p-en** as a formative, in a verbless construction it can still be predicated by **pen** (or plural **ṭen**):

**ɔk.kw.én p-ɛn**  
 who C-DEM

who is this about? (i.e. whom are you talking about?)

**ɔkkwên** implies a speech context; unlike **ɔtta**, it is not used inthetic questions. The following examples contrast **ɔtta** and **ɔkkwên**. **ɔtta** can be used in context as well as “out-of-the-blue”; the use of **ɔkkwên** in the second example below conveys the speaker’s assumption or awareness that the people were already talking about the person who died when s/he joined the conversation:

**ɔt-ta a-p-p-í.t**  
 PERS.3-QW FOC-C-C-die:COMPL

who died?

**ɔk.kw.én a-p-p-í.t**  
 who:DEM FOC-C-C-die:COMPL

who died? (for example upon joining a group of people at a funeral who are talking about the deceased)

Furthermore, **ɔkkwên/ɔkkwéŋɔn** is typically used in complement clauses. Two examples follow here, the first with ‘who’ as subject of the complement clause, the second with ‘who’ as object.

**m-p-ɔmma itti ɔk.kw.én akk-ɔkkɔt.ê**  
 1-C-not\_know:INCOMPL that who:DEM FOC-do:COMPL

I do not know who did it

**ɔ-kín t-ɛré-t-ɛ itti ɔk.kw.éŋ-ɔn akka ɔ-kín akkarɔ**  
 PERS-3A C-speak\_about:COMPL that who:DEM-PL that PERS-3A call:DEPINCOMPL

they talked about who (PL) they would invite

Note that the example above ‘I do not know who did it’ is different from a construction with **ɔkkwí í-** (see 6.1.5):

**m-p-ɔmma ɔk.kw.í í-p-ɔkkɔt.ê**  
 1-C-not\_know:INCOMPL the\_one RES-C-do:COMPL

I do not know the one who did it



*C-ṣṭta/C-ṣṭtân* ‘whose’ and *C-ṣkkwên/C-ṣkkwéḡṣn*

The nominal modifiers *C-ṣṭta/C-ṣṭtân* ‘whose’ and *C-ṣkkwên/C-ṣkkwéḡṣn* have the connexive *C-ṣ* ‘of’ as a formative. The difference in meaning between the two is similar to that of the pronominal forms. The first question below can, for example, be asked when two people are passing by a grave. The one puts the question to the other, who may or may not know the answer. The second question can be used when walking into a group of people who are gathered around a grave: it is assumed that these people have been talking or are talking about the dead person and know who he or she is.

<b>tupu</b>	<b>t-ṣṭ-ṭá</b>	<b>én-t-í</b>
hole_in_ground	C-of.PERS.3-QW	DEM-C-NEARSP

whose grave is this?

<b>tupu</b>	<b>t-ṣk-kw-én</b>	<b>én-t-í</b>
hole_in_ground	C-of.PERS.3-C-DEM	DEM-C-NEARSP

whose grave is this?

In a context where something was missed *C-ṣkkwên* is used upon asking for clarification. However, *C-ṣkkwên* is sometimes also used without such a conversational context, as an alternative to *C-ṣṭta*.

<b>ṣ-céccé</b>	<b>c-ṣk-kw-én</b>
PERS-Céccé	C-of.PERS.3-C-DEM

*whose Céccé are you? / whose Céccé are you? (or: in a comparable way as in the previous example: whose Céccé is this about?)*

<b>ṣ-céccé</b>	<b>c-ṣṭ-ṭá</b>
PERS-Céccé	C-of.PERS.3-QW

*whose Céccé are you?*

A pronominal proclitic can be attached to the connexive construction:

<b>ḡ-kw-ṣk-kw-én</b>
2-C-of.PERS.3-C-DEM

*whose (son/daughter) are you? / whose (son/daughter) are you?*

**ŋ-kw-ɔ̄t-ɬa**

2-C-Of.PERS.3-QW

*whose* (son/daughter) are you? / *whose* (son/daughter) are you?

## 20.1.2. ‘what’, ‘why’ and ‘what kind of’

The question words **ŋínɬa** ‘what’, **akaínɬa/akkaínɬa** ‘why’, **akaín/akkaín** ‘why’, **C-ɔ̄tɬa** ‘what kind of’, **C-ɔ̄tɬin** ‘what kind of’ and **ŋimpêŋ** ‘what’ all share the formative based on **ŋín** ‘what’. Most question words are compatible with **ŋín** having a falling tone, except **ŋimpêŋ**, the latter suggests a high or rising tone. I represent it with a high tone, since in the one example I have where it is not preceded by an element with high tone, it is realized as high.

**ana ŋ-kw-a.ɬ-ɔ̄kkɔt**                      **ŋín**

and    2-C-IT:INCOMPL-do:DEPINCOMPL                      what

and what will you do about it?! (lit. go and do)

**ŋínɬa** ‘what’

**ŋínɬa**, containing **ŋín** ‘what’ and **-ɬa** as formatives, can be used in a verbless clause. The concord **p-** in the first example, which is a fixed expression, is implicitly understood to agree with **papu** ‘thing’.

**ŋín-ɬa**                      **p-en**

what-QW                      C-DEM

what is it? (what is this that you are talking about?)

**ŋínɬa** can be used in a verbless clause with complementizer **ittɪ** ‘that’:

**ŋín-ɬa**                      **ittɪ**                      **ɬ-ɔ̄mekɔ̄**

what-QW                      that                      NOM-scarify

what is scarification?

As the subject of a verb, **ŋínɬa** is followed by the focus marker **akk-**, or alternatively by **app-** (not **aŋŋ-**). **app-** is used in **Tɔ̄ɾəmaɬɔ̄ŋ** and, for my consultant, implicitly agrees with **papu** ‘thing’.

**ηίν-τα**    **akk-a.îk**

what-QW    FOC-be:PR

what is happening? (what is (it)?)

**ηίν-τα**    **a-p-p-ɔkkwɔt.ê**

what-QW    FOC-C-C-kill:COMPL

what has destroyed it? (lit.: killed)

**ηίν-τα**    **akk-ɔnó**    **ittɪ**    **páɪ**

what-QW    FOC-have    that    par

what does *par* mean?

**ηίντα** as object can be in situ or left-dislocated followed by **akka** + H:

**ókul**    **w-a.ɾəkɔ**    **ηίν-τα**

child    C-eat:INCOMPL    what-QW

what will the child eat?

**ηίν-τα**    **akka**    **ókól**    **ɔɾəkɔ**

what-QW    that    child    eat:DEPINCOMPL

what will the child eat?

**ηίντα** can be in situ preceded by a preposition. Alternatively, it can be left-dislocated, with an absolute preposition remaining in place:

**η-kw-aa.t**    **η-ηίν-τα**

2-C-come:COMPL    with-what-QW

by what did you come here? (i.e. by what means of transport)

**ηίν-τα**    **akka**    **η-kw-aa.t**    **ή.ηm**

what-QW    that    C-come:COMPL    with:ABS

by what did you come here? (i.e. by what means of transport)

**ηίν** ‘what’

**ηίν**, without the question morpheme **-τα**, does not function as a neutral question word. In the earlier cited example, repeated here, it already implies the speaker’s negative view: you can do nothing.

**ana η-kw-a.ʔ-ʔkkʔt ηίν**  
 and 2-C-IT:INCOMPL-do:DEPINCOMPL what

and what will you do about it?! (lit. go and do) (implied: nothing!)

In combination with a Benefactive verb **ηίντα** is interpreted as ‘why’ (‘for what’). Compare:

**η-kw-a.ik p-a.llʔt tʔ-ín-ʔa**  
 2-C-be:PR C-run\_to:INCOMPL up\_on-what-QW

what are you running to?

**η-kw-a.ik p-a.llíne ηίν-ʔa**  
 2-C-be:PR C-run\_for:INCOMPL what-QW

why are you running? (lit.: you are running for what?)

In case of two objects, **ηίντα** in situ as the first (benefactive) object of a Benefactive verb, gives the reading ‘why’:

**ana m-p-a.ʔʔkine ηίν.ʔá ηύρύ η-ηʔɪ**  
 and 1-C-eat\_for:INCOMPL what:QW asida with-water

and why would I eat asida with water? (lit.: and I will eat for what asida with water?)

Alternatively, the reason object is left-dislocated in a construction with **akka** + H:

**ana ηίν-ʔa akka a-n-ʔʔkine ηύρύ η-ηʔɪ**  
 and what-QW that CONJ-1-eat\_for:DEPINCOMPL asida with-water

and why would I eat asida with water? (lit.: and I will eat for what asida with water?)

As a second (patient) object, **ηίντα** in situ gives the reading ‘what’:

**m-p-a.nékine ʔ-kakká ηίν-ʔa**  
 1-C-take\_for:INCOMPL PERS-Kakka what-QW

what can I take to Kakka?

In such a case, that is with a verb that takes both a beneficiary and a patient object, a construction with **ŋínta akka** + H is ambiguous:

**ŋín-ṭa akka a-n-ɔ́nékɪnɛ ɔ-kakká**  
 what-QW that CONJ-1-take\_for:DEPINCOMPL PERS-Kakka

what can I take to Kakka? / why do I bring it to Kakka?

**akkaínta / akaínta** ‘why’

The use of the combination **akkaínta** or **akaínta** ‘why’ (< **akka** + **ŋínta**), which comes after the verb phrase, avoids such ambiguity. Whereas a clause with (fronted) **ŋínta akka** + H as ‘why’, or with **ŋínta** in situ as ‘why’, requires a verb in benefactive derivation, the equivalent clause with **akkaínta/akaínta** has a non-benefactive verb:

**ŋ-kw-a.ɪk p-a.ɪlɔ́ aka.ín-ṭa**  
 2-C-be:PR C-run:INCOMPL why-QW

why are you running?

**m-p-a.nékiɛ ɔ-kakká aka.ín-ṭa**  
 1-C-take\_for:INCOMPL PERS-Kakka why-QW

why will I take it to Kakka?

**akkaîɲ / akaîɲ** ‘why’

**akkaîɲ** and its variant **akaîɲ**, which lack the question morpheme **-ṭa**, are typically used as quick remarks, interrupting the speaker. Rather than like real questions, they function like exclamations, expressing that something is considered unusual:

**ɲokul ɲ-ellâ**  
 children C-be\_absent:INCOMPL

**akka.îɲ**  
 why

I have no children (lit.: children are lacking). why?!

**C-ɔ́ínta** ‘what kind of’, **C-ɔ́îɲ** ‘what kind of’

C-**ᶑínṭa** ‘what kind of’ and C-**ᶑín** ‘what kind of’ contain the connexive C-**ᶑ** and **ᶑínṭa** or **ᶑín**. They function as modifiers of a noun phrase:

**ᶑ-pari**   **p-aṅ**   **p-a.kkóttet**   **ᶑóól**   **ᶑ-ᶑín-ṭa**  
 PERS-wife   C-POSS2   C-do.PLUR:INCOMPL   sauce   C-of-what-QW

what kind of sauce does your wife always make? (App. IV, 12)

**k-kw-ᶑkwónᶑ.t**   **óól**   **w-ᶑín-ṭa**  
 3-C-produce:COMPL   child   C-of-what-QW

what child did she give birth to? (a girl or a boy?)

The next example has C-**ᶑín**, without **-ṭa**. It is not really a question, but conveys that the people don’t want to hear the **tit tit** of the boy:

**ana**   **tit**   **tit**   **t-ᶑᶑek**   **t-ᶑín**  
 and   tit   tit   C-some   C-of-what

and what kind of “*tit tit*” (is this now)?! (“*tit tit*” is a sound made out of fear. Context: a small boy went into a cave to find a porcupine, but now he is afraid and wants to get out. The people outside want the boy to stay inside and get the porcupine). (fr. written story)

**ᶑimpên** ‘what, why’

**ᶑimpên** contains the formative **ᶑín** ‘what’ and the demonstrative base **ên** ‘that’. The concord is again **p**. Like **ᶑkkwên**, **ᶑimpên** is not used thetically, but needs a (speech) context; it refers to a matter that is (assumed to be) already being discussed. The question below stands in a context of people knowing that they should do something, but they don’t know what. **ᶑimpên** can be used in situ or in a fronted construction with **akka** + H:

**ana**   **ᶑ-nᶑin**   **ṭ-a.kkᶑt**   **ᶑim-p-ên**  
 and   PERS-1A   C-do:INCOMPL   what-C-DEM

but what can we do?

**ana**   **ᶑim-p-én**   **akka**   **ᶑ-nᶑin**   **ᶑkkᶑt**  
 and   what-C-DEM   that   PERS-1A   do:DEPINCOMPL

but what can we do?

Like **ǎkkwên**, **ŋimpên** is also used in complement clauses, whether in situ (first example below), or fronted within the complement clause preceding **akka** + H (second example). In the second example, **ŋínṭa** was considered acceptable as well; in the first this was less clear.

**ǎ-kín ṭ-erettárone.t**      **itti ǎ-kín ṭ-á.kkót**      **ŋím-p-ên**  
 PERS-3A C-talk\_to\_each\_other:COMPL      that PERS-3A C-do:INCOMPL      what-C-DEM  
 they discussed amongst each other what they would do

**ŋík.ɪ**      **n-tán**      **á-n-ánt-ǎkṭa**  
 pass\_entrance:IMP      with-up\_on:ABS      SUBJ-1-can:DEPINCOMPL-look\_at:DEPINCOMPL  
**ŋim-p-én akka ǎ-ppénná ǎkkínṭ-óŋ**  
 what-C-DEM      that      PERS-Penna      do\_for:DEPINCOMPL-O2  
 come inside to me, so that I can see what Penna is doing to you

**ŋimpén akka** has the reading ‘why’ when it functions as first object of a Benefactive verb. Note that in the previous example **-óŋ** ‘you’ is understood as the first object of **ǎkkínṭet** ‘do for’, so that **ŋimpên** is understood as the second (patient) object. In the example below the natural interpretation is the other way round: **ŋimpên** is understood as the first object of Benefactive **ǎmmakínṭet** ‘follow for’ (< **ǎmmakot** ‘follow’), giving a ‘why’ reading. Enclitic **-ǎk** ‘him, her’ functions as second (patient) object:

**ǎ-kín ṭ-eréṭ.ε**      **itti ŋim-p-én akka**  
 PERS-3A C-speak\_about:COMPL      that      what-C-DEM      that  
**k-kw-á.ík**      **p-á.mmakínṭ-ǎk**  
 3-C-be:PR      C-follow\_for.PLUR:INCOMPL-O3  
 they spoke about why she is always following him

**ŋimpên** is also used in questions to which no answer is expected:

**ana ɳ-kw-ápp-ǎṭunc.aṭ-in**      **ŋim-p-ên**  
 and      2-C-again:INCOMPL-throw\_at.PLUR:DEPPRFV-1:O      what-C-DEM  
 and what will you throw at me again?! (implication: there is nothing left to throw at me) (App. IV, 116)

**ηῶρε** **ἰ-α** **κ-κω-ὄνω** **η-ά.μέτ** **ηἴμ-π-ἐν**  
 laziness RES-(C-)COP 3-C-have C-tell:INCOMPL what-C-DEM

the laziness that he has tells (us) what?! (i.e. it is beyond words!) (App. I, 22)

### 20.1.3. ‘where’

**karəṭâ** / **karəṭa**, **kəren**, **C-árəṭa** and **C-âren** ‘where’ share a formative that vacillates between **(k)ər** and **(k)ar**. **karəṭâ** and **karəṭa** are sometimes pronounced with a first vowel **ə** rather than **a**. The initial vowel **a** of **C-árəṭa** and **C-âren** comes from the copula (**C-á** ‘be’) rather than being part of the formative. Whether or not there is a relationship with the noun **karəṇ** ‘place’ is unclear.

#### *karəṭâ/karəṭa* ‘where’

**karəṭâ** or **karəṭa** ‘where’ can be used in situ. In this position, the two tonal alternatives are equivalent, as shown in the following. The first realization is based on **karəṭâ**, the second on **karəṭa**.

**liccít** **l-á.îk kárə-ṭâ** / **liccít** **l-á.îk** **karə-ṭa**  
 threshing\_floor C-be:PR where-QW threshing\_floor C-be:PR where-QW

where is the threshing floor?

**karəṭâ** / **karəṭa** can precede an adjunct of time (or manner):

**η-κω-εὐ.τ** **kárə-ṭá** **mεccín**  
 2-C-go:COMPL where-qw yesterday

where did you go yesterday?

Alternatively, ‘where’ can be fronted. In this construction only the tonal variant **karəṭâ** is used. Fronted **karəṭâ** is not followed by **akka** + H, but by locative relative **ná** (discussed in 11.3):

**karə-ṭá** **na** **liccít** **l-á.îk**  
 where-QW where:REL threshing\_floor C-be:PR

where is the threshing floor?



In complement clauses **karəṭa/karəṭâ** and **kəren** are not used, only the locative relative **ná**:

**m-p-əmma**      **na**      **k-kw-ónu**      **kəmə́n**  
 1-C-not\_know:INCOMPL    where:REL    3-C-have      house

I don't know where s/he has his/her house he lives (I don't know where s/he lives)

Like other locative constituents **karəṭa/karəṭâ** can be preceded by **ń-** 'with, by, (away) from', but not by any of the other proclitic prepositions:

**l̥cək**    **l-aa.t**      **ŋ-káro-ṭâ /**    **ŋ-káro-ṭa**  
 goats    C-come:COMPL    with-where-QW    with-where-QW

where have the goats come from?

**kəren** 'where'

**kəren** probably contains the demonstrative pronominal base **en** as a formative (see 8.1), but there seems to be no trace of a concord. Like **ŋimpên** and **əkkwên**, **kəren** is used in questions which are not really questions, but imply a negative statement. For example, the speaker is telling somebody that some of his goats escaped and says 'and where were you?!', implying: I needed you then to search with me, but you didn't show up:

**a-ŋ-kw-əká.t**      **kəren**  
 CONJ-2-C-be:COMPL      where

and where were you?! (you didn't show up!)

In the example below, somebody has just said that s/he has a threshing floor, but as far as the hearer knows this is not the case:

**l̥ccít**      **l-á.ík**      **kəren**  
 threshing\_floor    C-be:PR      where

where is (this) threshing floor?!

**kəren** with proclitic **ń-** ‘with, by, (away) from’ is a standard expression in answer to the greeting **táṭṭa** ‘how is it?’. It is an evasive answer, communicating an unwillingness to give further details:

**táṭ-ṭa**

how-QW

**ṅ-kóren**

with-where

how are you? fine (but don’t ask further questions!)

**C-árəṭa** ‘where’ and **C-âren**

The related nominal modifiers are **C-árəṭa** ‘where’ and **C-âren** ‘where’. **C-árəṭa** is used in order to obtain information about the whereabouts of somebody or something:

**ṅṛin**      **p-árə.ṭa**

PERS.ṅṛin      C-where

where is ṅṛin?

**appentíná**      **w-árə.ṭa**

groundnuts      C-where

where are the groundnuts?

**a-ṅ-kw-árə.ṭa**

CONJ-2-C-where

and where are you?

By contrast, **C-âren** in the next example is not a neutral inquiry after somebody’s whereabouts. It implies that the person was expected to be present, but is not:

**k-kw-íré.t**      **ittı**      **k-kw-á.kkappərtakə**      **ána**      **k-kw-âren**

3-C-say:COMPL      that      3-C-return:INCOMPL      and      3-C-where

s/he said that s/he would come back, but where is s/he?!

In the example below, the chicken saw the cat coming, but now does not see it anymore, which is worrying. The chicken asks the jackal:

**ana pólá p-âren**  
and cat C-where

and where is the cat now?! ('The story of the jackal')

The following example is not a neutral question after the whereabouts of the addressee's children (**ɲokul**), but departs from the knowledge that the addressee does not have children and conveys that this is not really how it should be:

**ana á-ɲ-áɲ ɲ-âren**  
and PROBS-C-POSS2 C-where

and where are yours?! (you should get serious and have a child!)

#### 20.1.4. 'how'

**táttá**, **táttáráttá**, **tăt** and **C-aráttá** all share the formative **tăt** 'how' (as do **akkáráttá** and **akkárat** 'what time', see 20.1.5). **káttá** and **kăt** share the variant of **tăt**, **kăt**.

**táttá/káttá** 'how'

**táttá** 'how' and **káttá** 'how' are generally preceded by the complementizer **ittĩ** 'that'. The combination **ittĩ káttá** / **ittĩ táttá** is used in situ:

**ɲ-kw-a.kkót ɲǎré éɲ-ɲ-í ittĩ kăt-ɬa / tăt-ɬa**  
2-C-do:INCOMPL work DEM-C-NEARSP that how-QW / how-QW

how will you do the work?

In the next example **táttá/káttá** is not preceded by **ittĩ**, but the defective verb **-ǎpəri** contains the same formative **-tĩ** as **ittĩ**:

**k-kw-ǎpəri tăt-ɬa / kăt-ɬa**  
3-C-say how-QW / how-QW

what did s/he say?

In the next case **ittĩ** is absent. The expression is a fixed formula, a greeting upon seeing somebody who has just got up:

**ŋ-kw-ɨcát.é**      **tát-ṭa / kát-ṭa**  
 2-C-lie\_down:COMPL      (that-)how-QW / (that-)how-QW

how did you sleep? (greeting in the morning)

**tátṭa** and **kátṭa** ‘how’ are very common greetings:

**tát-ṭa / kát-ṭa**  
 how-QW / how-QW

**m-p-ɔpərɔt**  
 1-C-good

how are you? I am fine

**itti kátṭa** (or **itti tátṭa**) is also used in complement clauses:

**m-p-ɔŋɔt.é**      **itti ɔ-nɔn ɥ-ánt-ɔkəne-n**      **itti**  
 1-C-like:COMPL      that PERS-2A C-can:INCOMPL-show:DEPINCOMPL-O1      that

**ɔ-nɔn ɥ-a.ra**      **tún**      **itti kát-ṭa**      **cəné**  
 PERS-2A C-cultivate:INCOMPL      onion      that      how-QW      here

could you show me how you (PL) grow onions here? (lit.: I want that you (PL) can show me ...) (fr. written text)

**tátṭa/kátṭa** cannot be left-dislocated.

**tátṭa** can be reduplicated to **tátṭárátṭa**. The reduplication has an intensifying effect. A how-question with **tátṭárátṭa** is not a neutral question for information, but expresses that something is thought to be (have been) very difficult. Which part is the reduplicated part is not clear. In the example I have glossed the second part as the reduplicated part:

**ŋ-kw-aa.t**      **tátṭá-rátṭa**  
 2-C-come:COMPL      how~INTS

how did you manage to come? (for example when there were no buses)

**tăt/kăt** ‘how’

The short forms **tăt/kăt** ‘how’ are used in expressions that function as exclamations rather than as real questions. The example below has the implicit connotation of ‘you probably have nothing to say’:

**ana    ɔ-nɔn    ʔ-ére            tăt**  
and      PERS-2A      C-speak:INCOMPL      how

and what do you (PL) have to say?! (lit.: and how will you speak?!)

Comparable to **ɔkkwên** and **ɲimpên**, and like **itti kátta/itti táttá**, the short forms **tăt/kăt** are furthermore used in complement clauses. The following example functions as complement of ‘they talked about’:

... **ana    ɔ-llé                    p-ɔkǐccé.r-ɔk            n-tuan    kăt**  
          and      PERS-husband      C-chase:COMPL-O3      with-home      how

...and how her husband had chased her from the house (from wr. story)

Unlike **itti kátta / itti táttá** the short forms require some context; they are not easily used ‘out of the blue’. The first sentence below can, for example, be used in a conversation between two people who are walking through an onion field, and one of which is known or assumed to have knowledge about the cultivation of onions:

**m-p-ɔŋɔʔ.é    itti    ɔ-nɔn    ʔ-ánt-ɔkóne-n                    itti**  
1-C-like:COMPL      that      PERS-2A      C-can:INCOMPL-show:DEPINCOMPL-O1      that

**ɔ-nɔn    ʔ-a.ra                    ʔún    tat    cəné**  
PERS-2A      C-cultivate:INCOMPL      onion      how      here

could you show me how you grow onions here? (lit.: I want that ...)

In a complement clause **tăt/kăt** can be left-dislocated followed by **akka** + H:

**m-p-ɔŋɔʔ.é    itti    ɔ-nɔn    ʔ-ánt-ɔkóne-n                    tat    akka**  
1-C-like:COMPL      that      PERS-2A      C-can:INCOMPL-show:DEPINCOMPL-O1      that      that

**ɔ-nɔn    ʔ-a.ra                    ʔún    cəné**  
PERS-2A      C-cultivate:INCOMPL      onion      here

could you show me how you grow onions here? (lit.: I want that ...)

*C-aráttá* ‘how’, *C-arât* ‘how’

The modifying word *C-aráttá* ‘how’ contains the copula *C-á* and *táttá* (*tắt* ‘how’ + the question word marker *-tta*) as formatives. Some examples:

**nenní**      **ŋ-kw-a.rát-ta**  
Nenni          2-C-how-QW

Nenni, how are you?

**ɔ-nenní**      **p-a.rát-ta**  
PERS-Nenni      C-how-QW

how is Nenni?

**lɔn**      **l-a.rát-ta**  
words      C-how-QW

what is going on?

In the example below *C-aráttá* modifies an object pronoun:

**ɔ-nɔn**      **t-immá.kát-ɔ́k**      **p-á.rát-ta**  
PERS-2A      C-see:PST-O3      C-how-QW

how was s/he when you (PL) saw him/her? (lit.: you saw him/her being how?)

The short form is *C-arât* is used in quick questions for further details:

**pəlla**      **p-ellâ**                      |      **ana**      **p-p-éllá**                      **p-árât**  
cat          C-be\_absent:INCOMPL      and      PRO-C-be\_absent:INCOMPL      C-how

the cat is not here. and how come it is not here?

## 20.1.5. ‘what time’

**akkárattá** contains **akka** + H ‘that’ and **táttá** ‘how’ as formatives, but has developed a tone pattern of its own. **akkárattá** is used in order to inquire after the time of the day that something happened or is expected to happen.

**η-kw-εó.t**    **tuán**    **akkáraṭ-ṭa** | **m-p-εó.t**    **cipín**  
 2-C-go:COMPL    home    what\_time-QW    1-C-go:COMPL    evening

at what time did you go home? I went in the evening

**akkáraṭṭa** can be left-dislocated, followed by **akka** + H:

**akkáraṭ-ṭa**    **akka**    **η-kw-εó.t**    **tuán**  
 what\_time-QW    that    2-C-go:COMPL    home

at what time did you go home?

The short form can be used as a quick way of asking more precise information:

**ᵛ-íáia**    **p-a.ík**    **p-âṅṭán** |    **akkárat**  
 PERS-mother    C-be:PR    C-come:INCOMPL    what\_time

my mother is coming. what time? (the assumption is that the mother will come today)

**akkáraṭṭa** is not used for asking after the (clock) time of the present moment. The expression for this is:

**ciṅki**    **c-ia-ṭâ**  
 sun    c-which-QW

what's the time? (lit. the sun is which?)

#### 20.1.6. 'when'

While **akkáraṭṭa** 'what time' inquires after the time of the day that something happened or is expected to happen, **ácínṭa** 'when' is used in case of a larger time frame. A question with **ácínṭa** conveys no knowledge (or assumption) on the part of the speaker about the day of the event.

**η-kw-aa.t**    **kárəṭṭóm**    **ácín-ṭa**  
 2-C-come:COMPL    Khartoum    when-QW

when did you arrive in Khartoum?

The short form **acîn** needs a (speech) context and typically has an expressive value. The example below, is not a neutral question inquiring after the time or day that the speaker and addressee will fight, but conveys an eagerness to fight and perhaps the suggestion that the addressee may want to escape from it. The addressee replies that they will fight now.

**ana    ɔ-rit    ʦ-a.ʦáttɔ    acîn** | **ɔ-rit    ʦ-a.ʦáttɔ    ácca**  
 ana    PERS-12    C-fight:INCOMPL    when    PERS-12    C-fight:INCOMPL    now

and when will we fight?! we will fight now!

In the next example **acîn** is used as a quick interruption to ask when something is going to take place:

**ɔ-íára    p-a.ík    p-ântán** | **acîn**  
 PERS-mother    C-be:PR    C-come:INCOMPL    when

my mother is coming. when? (no knowledge/assumption about the time frame is conveyed)

The example below with **acîn** is not a real question. It is asked after the eggs of the bird got broken and the implied answer is ‘never’:

**ana    puʦupé    p-ápp-ɔkwónɔ    acîn**  
 and    bird    C-again:INCOMPL -produce:INCOMPL    when

**akka    p-p-ókkwá.t    pəʦin**  
 that    PRO-C-become\_old:COMPL    finally

and when will the bird produce (eggs) again? because it will be old (implied answer: never)

The form **acîn** is further used in a complement clause. **acínʦa** is possible as well. Both are used only in final position:

**m-p-ɔmma    itti    ɔ-kín    ʦ-ântan    acîn / acín-ʦa**  
 1-C-not\_know:INCOMPL    that    PERS-3A    C-come:INCOMPL    when / when-QW

I do not know when they will come (lit.: I do not know that they will come when)



## 20.1.7. ‘for what purpose’ and ‘why’

*C-ṣṭénṭa* ‘for what purpose, why’ and *C-ṣṭên* ‘for what purpose, why’

*C-ṣṭénṭa* modifies a noun and expresses ‘for what purpose’ or ‘why’. The long form is used in neutral questions. In the example below it functions as predicate:

**ṣṭən**      **p-ṣṭén-ṭa**  
basket(k.o.)    C-for\_what\_purpose-QW  
for what is the basket?

In the next example *C-ṣṭénṭa* modifies an object noun. The object noun phrase remains in situ:

**n-ṭ-a.pṣóre**                      **kamər**                      **k-ṣṭén-ṭa**  
2A-C-put\_at.PLUR:INCOMPL    sand                      C-for\_what\_purpose-QW  
why are you collecting sand?

The noun phrase can be fronted in a cleft construction with the copula:

**təré**                      **t-ṣṭén-ṭá**                      **t-á**                      **ḡ-kw-ónû**  
fear                      C-for\_what\_purpose-QW                      C-COP                      2-C-have  
why are you afraid? (lit.: fear for what purpose it is you have?)

**ṭakurít**                      **ṭ-ṣṭén-ṭá**                      **ṭ-á-kkôṭ** (< **ṭ-a** + **ḡ-** + **ṣkkôṭ**)  
style\_of\_young\_man    C-for\_what\_purpose-QW                      C-COP-(2-)do:DEPINCOMPL  
why do you dress up like a young man? (lit.: style for what purpose it is you make?)

*C-ṣṭénṭa* and *C-ṣṭên* can be used in a complement clause. In this environment there seems to be no difference between the long and the short form:

**m-p-ṣmma**                      **itti**    **ṣṭən**                      **p-ṣṭén-ṭa**                      / **p-ṣṭên**  
1-C-not\_know:INCOMPL    that    basket(k.o.)    C-because\_of\_what-QW                      C-because\_of\_what  
I do not know what the basket is for

In a main clause, the short form conveys a negative judgement:

**pəʔən**      **p-əʔən**  
basket(k.o.)      C-because\_of\_what

for what is the basket?! (we don't need it, you should not have brought it)

**C-ʒn̄ta** 'why'

C-ʒn̄ta 'why' modifies a subject (pro)noun. It is used in a construction with **akka** +H, often in combination with **ittinâ** 'so, like this'. Questions with C-ʒn̄ta are not neutral inquiries, but convey that it would be better if the situation were different, they express some worry, disappointment or disapproval.

**ukul**      **w-ʒn̄ta**      **akka**      **w-íkko**      **cík**  
child      C-why      that      PRO-sit:DEPINCOMPL      VREF

**cínáŋ**      **ákkómân**  
there\_where\_you\_are      since

why is the child still sitting here?

**ɔ-rɔn**      **ʔ-ʒn̄ta**      **akka**      **ɔ-rɔn**      **ɔkwón̄ta**      **ittinâ**  
PERS-12A      C-why      that      PERS-12A      be\_born:DEPINCOMPL      so

why were we born like this?

In the following example pronominal **t** refers to a pig (**tuttəruk**):

**t-t-ʒn̄ta**      **akka**      **t-t-á.ík**      **t-ʒó**<sup>28</sup>      **ittinâ**  
PRO-C-why      that      PRO-C-be:PR      C-cry:INCOMPL      so

why is it (the pig) crying like this?

The following is an example of C-ʒn̄ta without the connecting **akka**. **pənan**, which is related to **ɔnnân** 'mother', is an abusive term.

**k-kw-ʒn̄ta**      **ant-áme**      **pənan**  
3-C-why      can:DEPINCOMPL-come\_to:DEPINCOMPL      mother

why, on his/her mother, let him/her come back (in anger, as a threat)

<sup>28</sup> Irregular Incompletive (< ɔʒ 'cry').



## 20.1.9. ‘which’

The nominal modifier **C-iaṭâ** expresses ‘which’. An object noun phrase with **C-iaṭâ** can be used in situ, but can also be fronted. When fronted, it is followed by a relative construction with **I-C-a**:

**ŋ-kw-akkó.t**      **ṭákúřít**      **ṭ-ía-ṭâ**  
 2-C-do:INCOMPL      style\_of\_young\_man      C-which-QW

in which young man’s style will you dress?

**ṭakuřít**      **ṭ-ía-ṭâ**      **í-ṭ-ákkôṭ**  
 style\_of\_young\_man      C-which-QW      RES-C-COP.(2-)do:DEPINCOMPL

in which young man’s style will you dress? (lit.: the young man’s style is which that you will do?)

Modifying question words, like other modifiers, can be used independently. In the next example, pronominal **p-** has implicit reference to **papu** (thing).

**íáia**      **ana**      **p-ia-ṭâ**      **í-p-á**      **ŋ-kw-ókkóṭ.é**  
 my\_mother      and      C-which-QW      RES-C-COP      2-C-do:COMPL

mother, and what is it that you have made? (can refer to food)

The short form (**C-ia**) is commonly used in complement clauses, but in the examples below **C-iaṭâ** was considered acceptable as well.

**cik**      **c-írrók**      **ṭářu**      **aŋŋəna**  
 place      C-cold      Ṭařu      very

**ŋ-kw-əmma**      **itti**      **pəřu**      **p-ía**  
 2-C-not\_know:INCOMPL      that      dry\_season      C-which

**ana**      **cókku**      **c-ia**  
 and      rainy\_season      C-which

Ṭařu is a very cool place. You will not know which is the dry season and which is the rainy season (i.e. in both periods it is cool) (fr. written story)

**ḡáaí**      **lɔɾək**    **l-a.ik**      **l-ɔppɔt**  
 I.don't\_know    ropes      C-be:PR      C-many

**ána** **m-p-ɔmma**      **itti**      **t-ɔtté**      **t-ía**      **n.tít**  
 and    1-C-not\_know:INCOMPL    that      C-of.your\_father      C-which      from:ABS

I don't know, there are many ropes and I do not know which one among them is your father's (lit.: I do not know that your father's (is) which among (them)) (fr. written dialogue)

The short form is also used to shortly ask 'which one'?

**ɛt-m**                      **aɾám**  
 give:IMP-01              book

**w-ia**  
 c-which

give me the book! which one?

## 20.2. Question particles

### 20.2.1. The question particle -ɪ

Attachment of the enclitic question particle -ɪ turns a statement into a (neutral) polar question. Such a question solicits a response that starts with **ij** 'yes', or **á ā** / **é ē** / **m̃ m** 'no'. Questions marked by -ɪ can be used thetically, they require no specific context.

The tonal realization of questions evolves from the tonal properties of the element to which the question particle is attached; questions do not seem to have a specific intonation pattern. The particle functions largely as a regular low-toned item, except after an element with a rising (LH) tone. After a rising tone, application of the Tone Shift Rule (see 3.3.1) would be expected, resulting in a falling tone on the question particle. Instead, the particle can be tonally realized in two ways: as rising or as low. The paradigm follows here:

after L    **ḡkwɔnú pəlla-ɪ**    (**pəlla** + -ɪ)    'do you have a cat?'  
 after H    **ḡkwɔnú ɾakəɾɔk-ɪ** (**ɾakəɾɔk** + -ɪ) 'do you have a chicken?'  
 after LH **ḡkwɔnú ɾɔk-ɪ**      (**ɾɔk** + -ɪ)      'do you have a dog?'

after LH **ŋkwɔ́nó t̥ok-ɪ** (t̥ök + -ɪ) ‘do you have a dog?’

after HL **ŋkwɔ́nó pɔɾɔpé-ɪ** (pɔɾɔpê + -ɪ) ‘do you have a bird?’

When the particle is attached after a final vowel with a H tone, the LHL tone that would result on the long vowel is simplified to HL, and realized over the long vowel or diphthong. Though the same effect is found upon attachment of the prepositional pro-clitics **ɪ-**, **nɔ-**, **tɔ-** and **t̥ɔ-** to low-toned nouns with long vowels, and in one case of a diphthong (apart from **ɪ-maít** ‘in the beans’, there is also **ɪ-máit**, see 3.1.2), this does not seem to be a general tone rule of the language. LHL tones are attested on long vowels and diphthongs, though not very often. Examples are: **túŋ** ‘shovel’, **ɛé** ‘stab, blow’, **ɔ́k** ‘s/he’, **naák** ‘on him/her’, **uê** ‘instrument(k.o.)’, **kuá** ‘digging tool’, **cuál** ‘sack’, **cuân** ‘rat (sp.)’, **ɛ̂** ‘go’, **kaŋ** ‘bee’, **naŋ** ‘on me’, **naŋ** ‘on you’. Two examples with tone simplification follow here:

**ŋkwɔ́nó mət̥é-ɪ** (< mət̥ɛ-î < mət̥é + -ɪ) ‘are you sleepy?’ (lit.: do you have sleep?)

**ŋkwɔ́nó parí-ɪ** (< parí-î < parí + -ɪ) ‘do you have a wife?’

Some examples of polar questions with answers follow here.

<b>ŋ-kw-ina</b>	<b>ókurrɔ</b>	<b>kárrú-ɪ</b>
2-C-know:INCOMPL	engrave:DEPINCOMPL	mother_tongue-Q

<b>ij</b>	<b>m-p-ina</b>
yes	1-C-know:INCOMPL

can you write Lumun? yes, I can

<b>ɔ-t̥t̥ɛ</b>	<b>p-a.ík-ɪ</b>
PERS-your_father	C-be:PR-Q

<b>a-a</b>	<b>ɔ-ŋappá</b>	<b>p-íó.t</b>
no-REDUP	PERS-my_father	C-die:COMPL

is your father still alive? no, my father died

In answer to a negative question, **ij** ‘yes’ is applied for confirmation of the negative situation:

**η-kw-ǎnn-itta-ı**

2-C-NEG-get\_married:DEPCOMPL-Q

**ij m-p-ǎnn-itta**

yes 1-C-NEG-get\_married:DEPCOMPL

are you not married? / no, I am not (lit.: yes, I am not married)

In speech, a single question sometimes has more than one question particle. The example below has a question particle, with tone as in prepausal position, after the possessor pronoun. **ntít** is therefore like an afterthought. It does, however, belong to the question, so that it must take the question particle as well. When elicited, this sentence would only have the question particle at the end, after **ntít**.

**η-kw-ɔmma**

2-C-not\_know:INCOMPL

**lɔɾək**

ropes

**l-ɔn-ı̂**

C-POSS2A-Q

**n.tır-ı̂**

from:ABS-Q

do you not recognize your ropes among them? (fr. written dialogue)

Another example is the following. The question particle is obligatory after the first clause, but not after the second, which is not really part of the question. Still, it is possible to use it there:

**η-kw-ıccá p-á.ık-ı akka m-p-ɔká-t p-ellâ-t / p-ellá-r-ı**

2-C-still C-be:PR-Q that 1-C-be:COMPL C-be\_absent:COMPL C-be\_absent:COMPL-Q

are you still there? because I was not there ...

Combinations of a question word lacking **-ta** (see 20.1) and the question particle **-ı** are possible. An example follows here. **ηɔm** ‘for what’ retains its rethorical flavour suggesting here that there is no good reason for collecting urine, while at the same time **-ı** questions that supposition:

**a-parı-ɔn**

CONJ-wife-PL

**ómékat**

say:DEPPRFV

**ıttı**

that

**nɾɛɛ**

nonsense

**ηæ**

urine

**η-ɔ-ın-ı̂**

c-of-what-Q

his wife and children said, nonsense, urine for what?! (i.e. urine is good for nothing, or is it?!) (App. IV, 52)

20.2.2. The tag question word **pái** ‘is it?’

The tag question word **pái** ‘is it’ consists of the (non-person) pronoun clitic **p-** (implicitly referring to **papu** ‘thing’), the concord + copula **p-á**, and the question particle **-i**. The tag question word can be used after a positive but also after a negative statement. It solicits confirmation (**ij** ‘yes’) by the addressee.

**ɔ-rit**    **ʔ-a.ɪk**    **ʔ-a.réko**    **ménní**    **p-á-i**  
 PERS-12   C-be:PR   C-work:INCOMPL   today   PRO.C-COP-Q

you and I are going to do some work today, aren't we?

**ɔik**    **c-íppá**    **p-á-i**  
 place   C-hot   PRO.C-COP-Q

it is hot, isn't it

It can also be used after a negative statement:

**ɔkórónn-óká**    **íttínâ**    **p-á-i**  
 NEG:DEP-be:DEPCOMPL   so   PRO.C-COP-Q

it is not so, is it?

20.2.3. The particle for information recovery **-a**

Tonally, the particle **-a** behaves in the same way as **-i**. It does not coalesce with a preceding vowel. The particle **-a** is used for recovery of information or for confirmation that (the implication of) what has just been said has been correctly understood. It is employed, for example, when part of the conversation was missed. The particle can be used on a content question (first example below) or on a statement (second example below). In the latter case it solicits a yes/no answer.

**ɔʔ-ʔa**    **akk-aa.r-â**  
 PERS.3-QW   FOC-come:COMPL-RECOV

who did you say has come?



**k-kw-áar-â** | **ij**  
 3-C-come:COMPL-RECOV      yes

do I understand correctly that s/he has come? (are you saying that s/he has come?) yes

#### 20.2.4. The particle for informal information recovery -ε

The question particle -ε behaves tonally in the same way as -ɪ and -a, and like those particles, does not coalesce with a preceding vowel. Like -a, -ε is used in a conversational context for recovery of information or for confirmation that (the implication of) what has just been said has been correctly understood. It can be used on a statement or a content question. -ε differs from -a in that it is typically used in informal situations, for example by somebody who is not really following the conversation between friends or family, but picks up a detail about which s/he wants to make sure (first example below) or collect some missed information (second and third examples):

**k-kw-áar-ê** | **ij**  
 3-C-come:COMPL-RECOVINF      yes

did you say s/he has come? yes

**ɔkkwén**      **akk-ɔ.r-ê**  
 who      FOC-die:COMPL-RECOVINF

who died?/who is it that died? (conveying no particular interest in the rest of the conversation)

**ŋ-kw-ɪɾét**      **kar-ě**  
 2-C-say:COMPL      how-RECOVINF

what did you say? (conveying no particular interest in the rest of the conversation)

-ε is also used on informal greeting questions between friends. For example, somebody has asked his/her friend how s/he is and then has greeted the other people. Then s/he returns to the friend and resumes the earlier question:

**kar-ě**

how-RECOVINP

and how is it?

## 20.2.5. Absence of question marking

Question marking is entirely absent in verbless questions. Such questions follow on a statement and ask whether the same is true for someone or something else. The question just consists of **ana** +H ‘and’ and a personal pronoun (whether a participant or a third person) or a noun (phrase). Its predication is understood to be the same as that of the preceding statement, which may have been uttered by the speaker but also by the addressee. These questions do not invite a response starting with ‘yes’ or ‘no’, merely a confirming or denying statement.

**m-p-ɔpərɔt ana ɔ-óŋ**  
 1-C-good and PERS-2

**m-p-ɔpərɔt**  
 1-C-good

I am fine, and you? I am fine

**m-p-a.ik p-a.éḥ ana ɔ-óŋ**  
 1-C-be:PR C-go:INCOMPL and PERS-2

**m-p-ǎnn-éḥ**  
 1-C-NEG-go:DEPINCOMPL

I am going, and you? I am not going

**ɔ-kukkó p-ɔŋɔ**  
 PERS-Kokku c-ill

**ana ɔ-laló**  
 and PERS-Lalu

**ɔ-laló p-ɔpərɔt**  
 PERS-Lalu C-good

Kokku is ill. And Lалу? Lалу is fine

## Appendices

The appendices present four transcribed, glossed and translated texts, as well as a word list of ca. 250 words.

### Texts

Appendix I-IV contain four texts, by three different speakers. The first text, by Okabi Waleed Ibrahim Osman, is a story about a lazy person; the second and third, by Nafisa Abdullai, are instructional texts about how to make a 'singing whip' and to decorate a calabash; the fourth, by Kubakku Kamthan Ngappingka, is an animal story which contains dialogue. The stories (appendix I and IV) were performed before a small audience, the instructional texts in the presence of only the researcher. All texts were performed by heart. In the case of the instructional texts, the recordings were preceded by a moment of thinking on the part of the speaker about what to tell. All four texts were initially transcribed and translated with the help of Nafisa Abdullai (NaA). Tone marking and general checking was later done with the help of John Shakir (JS).

Parentheses () signify:

- in the Lumun text: recorded, but mistaken and/or not-understandable (only marked in case of a longer stretch);
- in the glosses: translation of mistaken or doubled text; morpheme that is underlyingly present, but not at the surface; semantic specification: species (sp.) or kind of (k.o.);
- in the translation: clarification, for example through (more) literal translation or through addition of information not present in the Lumun text.

Square parentheses [] signify:

- in the Lumun text: not recorded but added by JS, for example, replacing a not-understandable part;

- in the translation: translation of passage between square parentheses in the Lumun text.

## Appendix I

### *The story of Aməntacı*

(Male) speaker: Okabi Waleed Ibrahim Osman from Təmmu (Taru), born in 1985. Recorded in Təparəḫēḫ (Taru), April 2008. Recorded time: 1 minute and 31 seconds.

1. **kəroḡ**      **k-aməntáci**<sup>29</sup>  
 story              C-of.PERS.Aməntacı  
 The story of Aməntacı.
2. **áməntáci**      **p-á.fk**      **p-ínakə**      **ḡ-ḡóre**  
 PERS.Aməntacı      C-be:PR      C-be\_known:INCOMPL      with-laziness  
 Aməntacı is known for his laziness.
3. **áməntáci**      **p-əká.t**      **p-ónó**      **kapík**  
 PERS.Aməntacı      C-be:COMPL      C-have      rain  
 Aməntacı was holding the rain. (i.e. Aməntacı was somebody who holds the rain)
4. **k-kw-ânn-énekkə**      **məna**      **ittı**      **k-kw-á.kwe**      **cık**  
 3-C-NEG-try:DEPINCOMPL      even      that      3-C-dig:INCOMPL      VREF  
 He does not does not even try to do digging (in order to prepare a ground for building)
5. **məna**      **əcəḡta**      **kwórén**      **k-ḡ-kəre**<sup>30</sup>  
 even      polish:DEPINCOMPL      piece\_of\_firewood      C-of-agricultural\_tool(k.o.)  
 nor does he even polish a piece of wood for a *kəre* (k.o. agricultural tool)

<sup>29</sup> The initial high tone of **áməntáci** is unexpectedly dropped.

<sup>30</sup> **kəre** is a long pointed stick used, a.o, for removing old sorghum stocks.

6. **ittı** **k-kw-á.kwe** **cık** **nó-cərúk**  
 that 3-C-dig:INCOMPL VREF on-opening  
 in order to dig in the ground in the compound. (in order to clean it from weeds and make it flat and smooth)
7. **k-kw-ıkkə** **cık** **η-kəɟıttan** **k-ulluk** **ɟə-kəríkı**  
 3-C-sit:INCOMPL VREF with-knife C-only at-elbow  
 He just sits with a knife on his elbow.
8. **ηərə** **pəɟın** **áηəɟın** **məna**  
 laziness finally totally even  
 The laziness is really enormous!
9. **k-kw-ánn-ıɟe** **məna** **ittı** **k-kw-á.kkət** **man**  
 3-C-NEG-say:INCOMPL even that 3-C-do:INCOMPL house  
 He does not even say that he will make a house,
10. **k-k-ónə** **man**  
 3-C-build:INCOMPL house  
 build a house, (i.e. the intention is not even there)
11. **ana** **nə-ərə** **η-óη** **k-kw-ıpərəttərə**  
 and on-work C-3POSS 3-C-very\_good  
 and compared to his work, he is very good. (i.e. the work is not good, but he looks very handsome)
12. **k-kw-ıkkə** **cık** **η-kəɟıttan** **ɟə-kəríkı**  
 3-C-sit:INCOMPL VREF with-knife at-elbow  
 He sits with a knife at his elbow,
13. **k-kw-ıηəra** **k-kw-ıηəra** **pəɟın**  
 3-C-very\_smooth 3-C-very\_smooth finally  
 he looks very smooth, just very smooth!
14. **ɟ-ónə** **ɟ-əmmá**  
 NOM-build C-lack:INCOMPL  
 Building is not there.

15. **ámmá** **k-kw-ópari** **k-k-óno** **k-k-óno** **man**  
 if 3-C-say 3-C-build:INCOMPL 3-C-build:INCOMPL house

When he decides he will build, build a house,

16. **karray** **k-ərek** **k-ətté** **ɕik** **nótuk**  
 wall C-some C-small VREF for\_nothing

(he will build) just some useless small wall

17. **á-kw-akəɽ.at** **n-tómpərá**  
 SUBJ-3-cut\_short:DEPPRFV with-higher\_place

so that he cuts it short from where the ground is high.

18. **ámmá** **á-kárik** **apə** **a-kw-íkkə** **ɕik**  
 if CONJ-rain fall:DEPINCOMPL CONJ-3-sit:DEPINCOMPL VREF
- a-kw-íkkə** **ɕik** **ɪ-kəɽúk** **k-ɛn**  
 CONJ-3-sit:DEPINCOMPL VREF in-sheltered\_spot C-of:ABS

And when the rain falls he sits, he sits in its shelter (i.e. he stays close to the wall for shelter from the rain, but there is no roof!)

19. **akka** **móná** **ámmá** **k-k-ónó.t**  
 that even if 3-C-build:COMPL

because even if he has built it (the wall)

20. **móná** **á-kw-óná.kat** **uɕe** **ŋ-kéren** **móna**  
 even CONJ-3-bring:DEPPRFV grass with-where even

where will he even bring the grass from?

21. **lən** **ɛl-l-ərik** **móna<sup>31</sup>** **l-ɔtɛn**  
 words DEM-C-NEARSP even C-of\_what

What are those things even good for?! (implied answer: for nothing!)

22. **ŋəre** **ɪ-a** **k-kw-ónó** **ŋ-á.mét** **ŋímpɛn**  
 laziness RES-(C-)be 3-C-have C-tell:INCOMPL what

The laziness that he has tells (us) what?! (i.e. it is beyond words!)

<sup>31</sup> **móna** is realized here as **ŋəna**. **k** is not deleted before **m** (as is the general rule), but **m** has assimilated for place of articulation to **k**.

23. **ana ámmá k-kw-íamá.t k-kw-á.ccəkət kápik**  
 and if 3-C-become\_hungry:COMPL 3-C-catch:INCOMPL rain  
 And when he is hungry, he will stop the rain (lit.: he will catch the rain)
24. **akka á-ol acəntıŋ-ók məna mıl**  
 that SUBJ-people collect\_for:DEPINCOMPL-O3 even sorghum  
 so that the people will even collect sorghum for him
25. **a-ól acəntıŋ-ók mıl ana məkál ana áppenčina**  
 CONJ-people collect\_for:DEPINCOMPL-O3 sorghum and sesame and groundnuts  
 and the people will collect sorghum and sesame and groundnuts for him
26. **ana rttıná k-kw-á.kkə cık**  
 and so 3-C-live:INCOMPL VREF  
 and like this he lives.
27. **ana ámmá ń-t-írét-úŋ ıtıırı<sup>32</sup> ŋ-kw-ónó ƚəre**  
 and if 2A-C-tell:COMPL-O2 that 2-C-have laziness  
 And if they tell you (lit.: will have told you) that you have laziness
28. **ámm.akka ŋ-áməntacı**  
 like C-of.PERS.Aməntacı  
 like the one of Aməntacı
29. **á-kəta lón l-ókıttak**  
 SUBJ-(2-)look\_at:DEPINCOMPL words C-very\_bad  
 you must see this as something very bad.
30. **a-kw-ótəkka.kat ménik púccók**  
 CONJ-3-become:DEPPRFV like\_this continuously  
 He became like this continuing for some time (i.e. Aməntacı continued to be like this for some time)
31. **mónó a-kw-ótəkka.kat p-makó.t ŋ-ƚəre pəɾın**  
 CONJ-3-become:DEPPRFV C-be\_known:COMPL with-laziness finally  
 until he finally became known for his laziness

<sup>32</sup> ıtıırı is a variant of the complementizer ıtıı ‘that’.

32. **a-kín** **ikk.at** **cik** **a-kín** **urǝlle**<sup>33</sup> **kérou** **k-en**  
 CONJ.PERS-3A sit:DEPPRFV VREF CONJ.PERS-3A graze.PLUR:DEPINCOMPL story C-of:ABS  
 and they (the people) started telling that story.

33. **ɔ-ɔn** **ɔ-manṭéla** **m-ɔ-lótti** **l-âlmélua**<sup>34</sup>  
 PERS-1 PERS-Manṭela C-of.PERS-Lótti C-of.PERS.Almélua  
 I am Manṭela of Lótti of Almélua.

34. **m-p-ɔká.t** **cik** **a-n-úrɛt**<sup>35</sup> **kérou** **ṭáru**  
 1-C-be:COMPL VREF CONJ-1-graze\_at:DEPINCOMPL story ṭáru  
**ɪ-curɛ́** **c-ɔ-pira** **c-ɔ-pəɾɔt**  
 in-buttock C-of-tree C-of-baobab  
 I was telling the story in ṭáru under the tree, under the baobab.

## Appendix II

### *The singing whip*

(Female) speaker: Nafisa Abdullai from Icapú (Tɔɾəmaṭɔ́n), at the time ca. 19 years old. Recorded in Icapú (Tɔɾəmaṭɔ́n), on 5 February 2009. Recorded time: 1 minute and 56 seconds.

1. **kammrâ**  
 singing\_whip  
 The singing whip.<sup>36</sup>

<sup>33</sup> The Pluractional verb **urǝlle** is based on **urɛ**, which refers to ‘letting the cows graze’. It can also be used for ‘talking, telling’.

<sup>34</sup> Nickname of the storyteller. Almélua is from Sud. Arab. *malwa* ‘unit of weight equal to 3.145 kg’. In the Lumun area it refers to a (tin) cup that is used for measuring comestibles such as sorghum, sesame, groundnuts and dates in the market.

<sup>35</sup> The verb **urɛ** ‘graze’ is also used in the context of storytelling.

<sup>36</sup> **kammrâ** is the piece of bamboo, prepared in the right way, to which a rope is attached. Together they make the singing whip.



2. **m-p-a.ɪk**    **p-a.ʔ-éɛ**                      **nó-kammíá**  
 1-C-be:PR      C-IT:INCOMPL-speak              on-singing\_whip  
 I am going to talk about the singing whip
3. **ámmá**    **ŋ-kw-óŋóʔ.é**      **ittɪ**      **ŋ-kw-a.kkót**      **kammíá**  
 if              2-C-like:COMPL              that      2-C-do:INCOMPL              singing\_whip  
 If you want to make a singing whip
4. **ana**    **ŋ-kw-ómmɔ**<sup>37</sup>    **kupu**              **a.ccáʔa**              **kiccé**  
 and      2-C-take:INCOMPL              piece\_of\_bamboo      CONJ-(2-)polish:DEPINCOMPL      carefully  
 then you take a piece of bamboo and you polish it carefully.
5. **ámmá**    **ŋ-kw-óccáʔá.t**    **ŋ-kəʔittan**      **pápénnán**  
 if              2-C-polish:COMPL              with-knife              very\_well  
 When you have polished it properly with a knife
6. **á-ómmɔ**                      **kaʔá**<sup>38</sup>    **á.lóʔɔ**                      **ŋ.ŋɪn**  
 SUBJ-(2-)take:DEPINCOMPL      stone(k.o.)      SUBJ-(2-)wriggle:DEPINCOMP      with:ABS  
 you take a *kaʔa*-stone and you wriggle with it.
7. **ámmá**    **ŋ-kw-ólóʔɔ.t**    **móná**    **á.kkót**                      **cə́rúk**    **tít**  
 if              2-C-wriggle:COMPL      until              CONJ-(2-)make:DEPINCOMPL      opening      in:ABS  
 When you have wriggled (with it) until you make a hole in it (in the piece of bamboo)
8. **á-témeɔ**                      **ʔəʔək**    **ʔ-əpóʔtəɛ**    **ʔ-əttəkárrân**  
 SUBJ-(2-)roll\_on\_thigh:DEPINCOMPL      rope              C-very\_nice              C-thin  
 you must roll on your thigh a rope (making it) very nice and thin,
9. **á-ɪɪke**                      **tít**    **á.ʔákket**                      **cəʔɪk**    **cík**    **n-ʔəʔəʔán**  
 SUBJ-(2-)make\_enter:DEPINCOMPL      in:ABS      CONJ-(2-)tie:DEPINCOMPL      knot      VREF      with-behind  
 you pass it through it (through the hole in the piece of bamboo) and you tie a knot at the back,
10. **á-ʔákket**                      **ʔəʔək**    **cík**              **ŋ-kámmíá**                      **tít**  
 SUBJ-(2-)tie:DEPINCOMPL              rope              VREF              with-singing\_whip              in:ABS

<sup>37</sup> NaA pronounces labialized **k** before **ɔ** [kʷɔ].

<sup>38</sup> *kaʔá* is a black stone with sharp edges (possibly slate).



20. **məna**      **ána**      **ɲurú**  
 even          and          asida  
 and even asida
21. **ɲ-kw-aʔ-úre**                      **nán akka kámmiá k-ɔpə́rót ʔraʔ-ʔrak**  
 2-C-IT:INCOMPL-forget:DEPINCOMPL on:ABS that singing\_whip C-good very-REDUP  
 you will go and forget about it because the singing whip is very good.
22. **ana ɲ-kw-aʔ-íkkə**                      **cík nóró catak**  
 and 2-C-IT:INCOMPL-sit:DEPINCOMPL VREF on\_top-of stone(k.o.)  
 And you go and sit on top of a stone
23. **á-ore.kat**                      **nan itti**  
 SUBJ-(2-)forget:DEPPERFTV on:ABS that  
 so that (the next thing is that) you forget about it that
24. **m-p-ɔnó ɲcul nɔ-ʔík ána ɲurú**  
 1-C-have sauce on-fire and asida  
 I (you) have sauce on the fire and asida.
25. **ana k-k-ɔpə́rót ʔraʔ-ʔrak**  
 and PRO-C-good very-REDUP  
 And it is very nice
26. **a-ɲókúl í-ɲ-âri ɲ-ɔɲəʔ.é**  
 CONJ-children RES-C-female C-like:COMPL  
 and the girls love it.
27. **ámmá ɲ-ɔccɪkót.é á-páɲón ɛɛ**  
 if PRO.C-hear:COMPL CONJ-sibling.PL swing:DEPINCOMPL  
 As soon as they hear (lit: have heard) their sisters swing
28. **ana ɲ-éراكət**  
 and PRO.C-come\_one\_by\_one:INCOMPL  
 then they come one by one

29. **a-kín**      **ennəkke**      **a-kín**      **εε**  
 CONJ-3A      try:DEPINCOMPL      CONJ-3A      swing:DEPINCOMPL  
 and they try to swing (the singing whip).

30. **ana**    **m-p-əŋət.é**    **itti**    **m-p-éere**      **nó-kammιά**    **ittinâ**  
 and    1-C-like:COMPL    that    1-C-talk\_about:INCOMPL    on-singing\_whip    so  
 And I like to talk about the singing whip like this

31. **akka**    **k-k-ópərót**    **ttat-ttak**  
 that      PRO-C-good      very-REDUP  
 because it is very nice.

32. **k-k-á.kəərənnə**    **jókul**    **ɪ-ŋ-âri**    **a-ŋ-íkkə**      **cɪk**    **tótun**  
 C-PRO-let:INCOMPL    children    RES-C-female    CONJ-PRO-sit:DEPINCOMPL    VREF    together  
 It allows the girls to sit together

33. **ana**    **ŋ-éε**      **ámmiâ**  
 and      PRO.C-swing:INCOMPL      singing\_whips  
 and they swing the singing whips.

### Appendix III

#### *Decorating calabashes*

The (female) speaker is Nafisa Abdullai from Icapú (Təɾəmaɾɔŋ), at the time ca. 19 years old. The recording was made in Icapú (Təɾəmaɾɔŋ), on 5 February 2009. Recorded time: 1 minute and 30 seconds.

1. **t-əkurrə**    **makkōŋ**  
 NOM-engrave    calabashes(k.o.)  
 Decorating calabashes.
2. **m-p-a.ɪk**    **p-aɾ-éere**      **nó-cákkōŋ**  
 1-C-be:PR      C-IT:INCOMPL-speak:DEPINCOMPL      on-calabash(k.o.)  
 I am going to talk about the calabash,

3. **ám̄m.akka** **ól** **ɔkorrɔ** **makkón̄**  
 how people engrave:DEPINCOMPL calabashes(k.o.)  
 how the people decorate calabashes.
4. **crit.tó.kít** **pul** **p-ómmɔ** **korĩn**  
 firstly person C-take:INCOMPL awl  
 Firstly, the person takes an awl
5. **á-kw-ɔkorrɔ** **ɲ-cakkón̄** **lón** **l-ɔpátt̄t̄t̄r̄é**  
 SUBJ-3-engrave:DEPINCOMPL with-calabash(k.o.) words C-very\_good  
 to engrave the calabash with it very nicely.
6. **ám̄má** **k-kw-ɔkorrɔ.t** **ɛppík**  
 if 3-C-engrave:COMPL all  
 When she has engraved the whole (calabash)
7. **á-kw-ɔt̄-ómmɔ** **mɔɲík** **á-kw-ɔkákɔ**  
 SUBJ-3-IT:DEPINCOMPL-take:DEPINCOMPL charcoal SUBJ-3-grind:DEPINCOMPL  
 she must go and take charcoal and grind it.
8. **ám̄má** **k-kw-ɔkákɔ.t** **mɔɲík**  
 if 3-C-grind:COMPL charcoal  
 When she has ground the charcoal
9. **á-kw-ɔt̄-ómmɔ** **ɲaak**  
 SUBJ-3-IT:DEPINCOMPL-take:DEPINCOMPL oil  
 she must go and take the oil
10. **á-kw-ɔt̄ɔt̄** **í-órrét** **ɛn-n-ərik**  
 SUBJ-3-rub\_at:DEPINCOMPL in-lines DEM-C-NEARADDR  
 to rub it into those grooves
11. **ɪ-a** **k-kw-ɔkorrɔ.t** **ɲ-korĩn**  
 RES-(C-)COP 3-C-engrave:COMPL with-awl  
 that she has engraved with the awl
12. **á-kw-ɔt̄ɔt̄** **cákkón̄**  
 SUBJ-3-rub\_at:DEPINCOMPL calabash(k.o.)  
 and she rubs the calabash



22. **η-kw-αηαῖ.έ** **ittɪ** **η-kw-a.kóʔacce** **neɾilá** **n-en**  
 2-C-like:COMPL that 2-C-look\_at.PLUR:INCOMPL drawings C-of:ABS  
 you like to look at its drawings.

23. **ana** **k-kw-á.ʔ-ɪɾike** **ʔəɾək** **ʔ-əɾək** **ʔ-a.ɪk<sup>41</sup>** **tít**  
 and 3-C-IT:INCOMPL-make\_enter:DEPINCOMPL rope C-some C-be:PR in:ABS  
 And she is going to enter some rope being there into it

24. **á-kw-ant-αῖ-αῖ**  
 SUBJ-3-can:DEPINCOMPL-IT:DEPINCOMPL-wind:DEPINCOMPL  
 and she can make a winding (i.e. wind a coloured thread around the rope)

25. **a-ʔ-íkk.at** **cɪk** **a-ʔ-óʔkəʔaccəʔta** **ʔ-αῖῑῑῑῑῑῑ** **ῑῑῑῑῑ**  
 CONJ-PRO-sit:DEPPRFV VREF CONJ-PRO-be\_looked\_at.PLUR:DEPINCOMPL C-very\_good finally  
 and it starts to look just very nice.

## Appendix IV

### *The story of the tortoise*

(Male) speaker: Kupakku Kamthan Ngappingka (Moussa Hamdaan) from ʔəʔkɪɾɪkɪcɪn (ʔəɾɪ), at the time in his late twenties. Recorded at ʔəpəɾəʔɛŋ (ʔəɾɪ), April 2008. Recorded time: 5 minutes and 2 seconds.

1. **kerɪŋ** (**k-α-)****k-α-kəɾól** **kəɾól** **ana** **ηάῖῑῑῑῑῑῑ**  
 story C-of-C-of-tortoise tortoise and bird(sp.)  
 The story of the tortoise, the tortoise and the *ηάῖῑῑῑῑῑῑ*-bird.

2. **ηάῖῑῑῑῑῑῑ** **η-ikkó.t** **cɪk** **a-ítittɛ** **aón**  
 bird(sp.) C-sit:COMPL VREF CONJ-(PRO-)collect.PLUR:DEPINCOMPL bees  
 The *ηάῖῑῑῑῑῑῑ*-bird was always collecting honey,

<sup>41</sup> **ʔark** can also be left out.

3. **ana kəɾɔl k-ɪkkɔ.t cik tɔan nɔʔok**  
and tortoise C-sit:COMPL VREF at\_home for\_nothing  
and the tortoise was staying at home, doing nothing.
4. **a-kw-ɔme.kaɬ-ɔk itti ʔɔma táɬ-ʔa**  
CONJ-3-tell:DEPPRFV-O3 that friend how-QW  
And he (the tortoise) said to him: “Friend, how are you?”
5. **m-p-áɬɬ-ɔccɔ ʔɪk ana attɪ ʔɪk ʔ-a.ɪk**  
1-C-ITVEN:COMP-receive:DEPINCOMPL fire and I\_hope\_that fire C-be:PR  
I have come to get fire and I hope there is fire?”
6. **a-kw-ɔme.kaɬ-ɔk itti ʔɪk ʔ-a.ɪk ana ɲ-kw-a.cɔɾɔ kəppák**  
CONJ-3-tell:DEPPRFV-O3 that fire C-be:PR and 2-C-wait:INCOMPL short\_time  
And he (the bird) said to him: “There is fire, but you wait a little,
7. **a-parɪ p-m ɪʔa ɪr-ɔɾəkɔ ɲurú**  
CONJ.PERS-wife C-1POSS cook:DEPINCOMPL (SUBJ-)12-eat:DEPINCOMPL asida  
my wife is cooking so that we can eat asida”.
8. (...) [**a-kw-ɔme.kaɬ-ɔk itti lá la la**<sup>42</sup> **kɪrənnɪ lɔn 1-ɔ-úrú**  
? CONJ-3-tell:DEPPRFV-O3 that no no no let:IMP words C-of-asida  
[He (the tortoise) said to him], “No no no, leave the asida!”
9. **a-kw-ɔme.kaɬ-ɔk itti ɪkki cik ɪr-ɔɾəkɔ ɲurú**  
CONJ-3-tell:DEPPRFV-O3 that sit:IMP VREF (SUBJ-)12-eat:DEPINCOMPL asida  
But he (the bird) told him, “Sit down so that we eat asida”.
10. **a-kw-ɔme.kaɬ-ɔk itti ɪɬ-ʔ-a.ɾəkɔ ɲurú**  
CONJ-3-tell:DEPPRFV-O3 that 12-C-eat:INCOMPL asida  
Then he (the tortoise) said to him: “We will eat asida.
11. **ɲ-kw-əɾá.ɬ-ín ɲurú pɔccɔp-pɔccɔk itti ɪɬ-ʔ-a.ɾəkɔ**  
2-C-refuse:COMPL-O1 asida for\_some\_time-REDUP that 12-C-eat:INCOMPL  
You continue to ignore me regarding the asida, so we will eat.

<sup>42</sup> Sudanese Arabic interjection: *la* ‘no’.



12. **ɔ-pari p-aŋ p-a.kkóttet ŋócól ŋ-ó-ín-ɬa**  
 PERS-wife C-2POSS C-do.PLUR:INCOMPL sauce C-of-what-QW  
 What does your wife always make the sauce of?”
13. **a-kw-óme.kat-ók itti**  
 CONJ-3-tell:DEPPRFV-03 that  
 But he (the bird) said to him,
14. **ant-íkkɔ cik tulluk á-ɬəkɔ ŋurú**  
 can:DEPINCOMPL-sit:DEPINCOMPL VREF only SUBJ-(2-)eat:DEPINCOMPL asida  
 “Please just sit down to eat asida”.
15. **a-kw-óna.kat ŋurú ana ŋəri ŋ-ŋócól ŋ-áón<sup>43</sup>**  
 CONJ-3-bring:DEPPRFV asida and water with-sauce of-bees  
 And he brought the asida and water with honey sauce (i.e. a watery honey sauce).
16. **a-kw-óme.kat-ók itti tír-óɬəkɔ ŋurú**  
 CONJ-3-tell:DEPPRFV-03 that HRT1 2-eat:DEPINCOMPL asida  
 And he (the bird) said to him, “Let us eat the asida”.
17. **a-kw-óme.kat-ók itti**  
 CONJ-3-tell:DEPPRFV-03 that  
 And he (tortoise) said to him:
18. **á-a ŋ-kw-a.ɬəkɔ ŋurú ŋ-ŋəri tit éŋ-ŋ-í íttíná-ɪ**  
 no-REDUP 2-C-eat:INCOMPL asida with-water in:ABS DEM-C-NEARSP so-Q  
 “No, you eat asida with this water to it like this?”
19. **ŋ-ŋəri éŋ-ŋ-í á-n-óɬəkɔ ŋurú akka-ín**  
 with-water DEM-C-NEARSP CONJ-1-eat:DEPINCOMPL asida that-what  
 with this water, why would I eat the asida?!

<sup>43</sup> **ŋáón** instead of expected **ŋaón**.

20. **akka** **ɔ-pari** **p-in** **p-a.kkót**  
 that PERS-wife C-1POSS C-do:INCOMPL  
**ηόcul** **η-ónťómát** **ámma** **pa-p-əřek**  
 sauce C-strong like thing-C-some  
 because my wife makes the sauce strong like anything (i.e. very strong)
21. **ana** **m-p-a.řəkme** **ηín-ťá** **ηúrú** **η-ηəřĩ**  
 and 1-C-eat\_for:INCOMPL what-QW asida with-water  
 so why would I eat asida with water?”
22. **a-kw-óme.kat-ók** **itti** **ant-ónot**  
 CONJ-3-tell:DEPPRFV-O3 that can:DEPINCOMPL-taste:DEPINCOMPL  
 But he (the bird) told him: “Please taste it,
23. **ant-əmmē**<sup>44</sup> **ηurú** **á-not**  
 can:DEPINCOMPL-move:DEPINCOMPL asida SUBJ-(2-)taste:DEPINCOMPL  
 move the asida so that you taste it”. (i.e. bring a piece to your mouth)
24. **khalas**<sup>45</sup> **akka** **k-kw-óřəkə.t** **ηurú**  
 that's\_it that 3-C-eat:COMPL asida  
 Okay, when he (the tortoise) had been eating the asida,
25. **akka** **ɔ-kín** **ť-əřəkə.t** **ηurú** **póccók**  
 that PERS-3A C-eat:COMPL asida for\_some\_time  
 when they had been eating the asida for some time,
26. **a-kw-óme.kat-ók** **itti** **ant-ónot**  
 CONJ-3-tell:DEPPRFV-O3 that can:DEPINCOMPL-taste:DEPINCOMPL  
 he (the bird) said to him, “Please taste it (the sauce)”.

<sup>44</sup> **əmmē** ‘move’ collocates with asida. It can refer to moving the asida from the cooking pot onto a plate, to dipping a piece of asida in the sauce, or to bringing asida to the mouth.

<sup>45</sup> Sudanese Arabic interjection *khalaaş* ‘that’s it, so much for that, enough’.

27. **a-kw-ómmē.kat a-kw-óme.kat itti ókwōí**  
 CONJ-3-move:DEPPRFV CONJ-3-say:DEPPRFV that goodness  
 And he (the tortoise) moved it (i.e. he dipped the asida in the sauce and brought it to his mouth) and said: “Goodness,
28. **ἡύμα ηύουό η-ᵛ-ín-ᵗa-ppu éη-η-ί η-ίrrók ítínâ**  
 friend sauce C-of-what-QW-really DEM-C-NEARSP C-cold so  
 friend, what, really, is this sauce that is so sweet made of?”
29. **a-kw-ócca.kat ηυῖú ι-carək púccók**  
 CONJ-3-scoop:DEPPRFV asida in-belly for\_some\_time  
 And he scooped the asida into his stomach for some time
30. **a-kw-óᵗka.kat a-kw-óme.kat itti ἡύμα**  
 CONJ-3-become\_satisfied:DEPPRFV CONJ-3-say:DEPPRFV that friend  
 and he got satisfied and he said: “Friend,
31. **ᵛ-pari p-áh p-á.kkátte ηύουό η-ᵛ-ín-ᵗá éη-η-ί ítínâ**  
 PERS-wife C-2POSS C-do.PLUR:INCOMPL sauce C-of-what-QW DEM-C-NEARSP so  
 what does your wife always make this sauce of like this? (i.e. what is the secret ingredient making it so sweet?)
32. **ant-ᵛkáné-n á-n-ᵛkkót**  
 can:DEPINCOMPL-show:DEPINCOMPL-O1 SUBJ-1-do:DEPINCOMPL  
 Please show it to me,
33. **ηύουό éη-η-ί ί-ᵛᵗᵗᵗ cákərúk**  
 sauce DEM-C-NEARSP RES-(C-)sweet also  
 so that I can make this sweet sauce too”.
34. **(a-kəᵗᵗ) äᵗᵗᵗᵗápe óme.kat-ᵛk itti**  
 CONJ-tortoise CONJ.bird tell:DEPPRFV-O3 that  
 (And the tortoise) And the ηᵗᵗᵗᵗᵗápe-bird said to him:
35. **ηkᵛ áᵗ-ᵛmet ᵛ-pari p-áh**  
 go:IMP CONJ.(2.)IT:DEPINCOMPL-tell:DEPINCOMPL PERS-wife C-2POSS  
 “Go and tell your wife

36. **á-kw-ann-ḡáéot**                      **nó-capu** **ḡ-kín** **ḡ-per-ón** **tárra**<sup>46</sup>  
 SUBJ-3-NEG:DEP-urinate\_at:DEPINCOMPL on-ground PERS-3A PERS-child-PL all  
 that she and all her children must not urinate on the ground,
37. **á-km**                      **ann-ḡáéot**                      **nó-capu**  
 SUBJ.PERS-3A NEG:DEP-urinate\_at:DEPINCOMPL on-ground  
 they must not urinate on the ground
38. **a-kín**                      **ḡḡállət**                      **ı-lontərō**  
 CONJ.PERS-3A urinate\_at.PLUR:DEPINCOMPL in-calabashes(k.o.)  
 but they must urinate in calabashes.
39. **íer**<sup>47</sup> **pul**                      **á-p-ḡppét**                      **ḡóntərō**                      **ḡ-óḡ**  
 any person SUBJ-PRO-fill:DEPINCOMPL calabash(k.o.) C-3POSS  
 Each person must fill his calabash
40. **ana** **ḡabááh**<sup>48</sup>                      **á-ıḡa**<sup>49</sup>  
 and morning SUBJ-(2-)cook:DEPINCOMPL  
 and in the morning you must cook (asida),
41. **áḡ-ákkarō-n**                      **ír-ḡḡ-ḡḡəkō**                      **ḡurū**  
 CONJ.(2.)VEN-call:DEPINCOMPL-1o (SUBJ-)12-IT:DEPINCOMPL-eat:DEPINCOMPL asida  
 then you must come and call me, so that we go and eat asida”.
42. **ana**                      **a-kw-ḡme.kat**                      **ḡ-parı**                      **ıttı**  
 and CONJ-3-tell:DEPPRFV PERS-wife that  
 And he (the tortoise) said to his wife:
43. **ḡ-cic-cəne** **ménni** **pul**                      **p-ellá**                      **p-á.ḡéot**                      **nó-capú**  
 with-LOC-here today person C-lack:INCOMPL C-urinate\_at:INCOMPL on-ground  
 “From here and now on, no one will urinate on the ground

<sup>46</sup> Not a Lumun word, according to JS probably a Tira word.

<sup>47</sup> From Sudanese Arabic *ayyi* ‘any’.

<sup>48</sup> Sudanese Arabic word *ḡabaah* ‘morning’.

<sup>49</sup> Implied object of *ıḡa* is *ḡurū* ‘asida’.

44. **ana kwa éŋ-k-í ók.kw.í í-p-óŋáéóɥ.ɛ nɔ-capó**  
 and sticks DEM-C-NEARSP the\_one RES-C-urinate\_at:COMPL on-ground  
 and these sticks, who will have urinated on the ground,
45. **m-p-a.kkwe-kók**  
 1-C-beat:INCOMPL-O3  
 I will beat him!”
46. **ittiná a-kw-óŋa.kat**  
 so CONJ-3-tear\_off:DEPPRFV  
 Then he tore off,
47. **a-kəɥól óŋá.kanɥet ɔ-parɪ-ón kwa k-ɔppót**  
 CONJ-tortoise tear\_off\_for:DEPPRFV PERS-wife-PL sticks C-many  
 the tortoise tore off many branches for his wife and children
48. **a-kw-óme.kat itti pua ém-p-í p-ɔ-paɥɥi ém-p-í**  
 CONJ-3-tell:DEPPRFV that stick DEM-C-NEARSP C-of.PERS-person DEM-C-NEARSP  
 and he said: “This stick is for this person
49. **ana ém-p-í p-ɔ-paɥɥi<sup>50</sup> ém-p-í**  
 and DEM-C-NEARSP C-of.PERS-person DEM-C-NEARSP  
 and this one is for this person.
50. **ana ámmá ók.kw.í í-p-óŋáéóɥ.ɛ nɔ-capó**  
 and if the\_one RES-C-urinate:COMPL on-ground  
 And if there is anyone who will have urinated on the ground
51. **ana m-p-a.póɥɥɥ-ók**  
 and 1-C-beat:INCOMPL-O3  
 then I will beat him”.
52. **a-parɪ-ón ómé.kat itti nɥɛ ɲae ŋ-ó-ín-í**  
 CONJ-wife-PL say:DEPPRFV that nonsense urine C-of-what-Q  
 His wife and children said: “Nonsense, urine for what??

<sup>50</sup> The word is realized tonally different from the same word in the same environment in line 48. In line 48 ‘this’ modifying the stick is realized as before a pause, in line 49 there is high tone shift onto the next word, followed by tone bridge. In both cases, both realizations are possible.

53. **ámamá**      **ŋ-kw-ířé.t**      **meník**  
 if                      2-say:COMPL              like this  
 (but) If you say so (lit.: if you have said so),
54. **ɔ-nɪn**      **ɥ-a.ŋállentɥ-ɔŋ**                      **ɪ-lɔntərɔ̂**  
 PERS-1A      C-urinate\_for\_at.PLUR:INCOMPL-O2      in-calabashes(k.o)  
 we will urinate for you in calabashes,
55. **ant-ɔkóʦa**                                      **lɔn**      **í-l-á-kkót**<sup>51</sup>                      **nán**  
 can:DEPINCOMPL-look:DEPINCOMPL      words      RES-C-COP-(2-)do:DEPINCOMPL      on:ABS  
 just see what you do with it!
56. **ana** **ŋ-kw-ířé.t**      **ittɪ** **ɔ-nɪn**      **ɥ-a.ŋállentɥ-ɔŋ**                      **ɪ-lɔntərɔ̂**  
 and      2-say:COMPL      that PERS-1A      C-urinate\_for\_at.PLUR:INCOMPL-O2      in-calabashes(k.o)  
 And you said that we must urinate for you in calabashes,
57. **ana**      **áppín-áppín**      **a-ŋ-kw-ǎnn-íře**                      **ittɪ**  
 and      always-REDUP                      CONJ-2-C-NEG-say:DEPCOMPL                      that  
 but all the time you were not saying that
58. **ɔ-nɪn**      **ɥ-a.ŋállɛt**                                      **ɪ-lɔntərɔ̂**  
 PERS-1A      C-urinate\_at.PLUR:INCOMPL      in-calabashes(k.o)  
 we must urinate in calabashes!” (i.e. you never said this before!)
59. **a-kín**      **óŋállɛ.kat**                                      **ɪ-lɔntərɔ̂**  
 CONJ.PERS-3A      urinate\_at.plur:DEPPRFV                      in-calabashes(k.o)  
 And they urinated in the calabashes.
60. **ana**      **ʃabááh**<sup>52</sup> **a-kw-óllɔ**                      **kɪttík** **a-kw-óme.kat**      **ittɪ**  
 and      morning      CONJ-3-run:DEPINCOMPL      strongly      CONJ-3-say:DEPPRFV      that  
 And in the morning he (the tortoise) ran fast and said:

<sup>51</sup> **í-l-á-kkót** < **í-l-á-ŋ-ókkót**.

<sup>52</sup> Sudanese Arabic word *ʃabaah* ‘morning’.

61. **ṭóma aṛik ír-és**  
 friend come:IMP (SUBJ-)12-go:DEPINCOMPL  
**úr-ṭṭ-ṭṭəkó<sup>53</sup> ḡurú**  
 (SUBJ-)12-IT:DEPINCOMPL-eat:DEPINCOMPL asida  
 “Friend, come so that we go, so that we go eat asida”.
62. **a-kw-óme.kat-ók itti ṭ-pari p-aṅ p-ṭcṭṭṭṭ.ε ḡucul pəṭin-i**  
 CONJ-3-tell:DEPPRFV-O3 that PERS-wife C-2POSS C-finish:COMPL sauce completely-Q  
 He (the bird) said to him: “Has your wife completely finished the sauce?”
63. **a-kw-óme.kat-ók itti ḡi ḡucul ḡ-əppəppát.ε ləntərō**  
 CONJ-3-tell:DEPPRFV-O3 that yes sauce C-become\_full.PLUR:COMPL calabashes  
 He said to him: “Yes, the sauce is full (in) the calabashes (i.e. the calabashes are full with sauce),
64. **məna ṭ-rən ṭ-a.ṭəkó ḡurú úr-únte.kat<sup>54</sup> cik**  
 even PERS-12A C-eat:INCOMPL asida (CONJ-)12A-pour.PLUR:DEPPRFV VREF  
 we will eat asida and even pour it away”.
65. **akka k-kw-ákkaró.t ḡattəttápe ḡattəttápe**  
 that 3-C-call:COMPL bird(sp.) bird(sp.)  
 When he called, “*ḡattəttápe*-bird, *ḡattəttápe*-bird”,
66. **a-kw-óme.kat-ók itti ant-əna ṭurít ṭ-aṅ**  
 CONJ-3-tell:DEPPRFV-O3 that can:DEPINCOMPL-bring:DEPINCOMPL food C-2POSS  
**ír-ṭṭəkó-na**  
 (SUBJ-)12-eat:DEPINCOMPL-ALLOW  
 he (the bird) said to him: “Please bring your food so that we eat it”.
67. **a-kw-óme.kat-ók itti**  
 CONJ-3-tell:DEPPRFV-O3 that  
 And he (the bird) said to him:

<sup>53</sup> **úr-** is a variant of **ún** (short for **ṭrún** ‘we(INCL)’) that can be used in this environment. The subjunctive particle **â-** is dropped here.

<sup>54</sup> **úr-** is a variant of **ún** (short for **ṭrún** ‘we(INCL)’) that can be used in this environment. The conjunctive particle **á-** is dropped here.

68. **yálla<sup>55</sup> tuṛít t-éí t-áá.t t-á.kkó í-kóṛâ**  
 come\_on food C-be\_here C-come:COMPL C-reach:INCOMPL in-open\_space  
 “Come on, the food has arrived here, reaching in our middle
69. **ana un-t-a.ṛəkô**  
 and 12A-C-eat:INCOMPL  
 and we will eat it.
70. **apelle ḡucul-é kirənni únət nán**  
 pour\_top:IMP sauce-PROP let:IMP pour\_at:DEPINCOMPL on:ABS  
 Pour some sauce, but don’t pour it on it (i.e. on the asida),
71. **ampelleṭ.ε nə-cáttak p-əllék**  
 pour\_at.PLUR:IMP on-plate C-alone  
 pour it in bits on a plate of its own”.
72. **a-kw-ámpelle.kat nə-cáttak**  
 CONJ-3-pour\_at.PLUR:DEPPRFV on-plate  
 And he (the tortoise) poured it in bits on a plate.
73. **a-kw-óme.kat-ók itti ant-əṭápe-me**  
 CONJ-3-tell:DEPPRFV-O3 that can:DEPINCOMPL-dip:DEPINCOMPL-PROP  
 And he (the bird) said to him, “Please dip it”, (i.e. dip the asida in the sauce)
74. **a-kw-óme.kat itti maṭṭa<sup>56</sup> ummi káppəri k-áḡ-ε**  
 CONJ-3-say:DEPPRFV that please take:IMP spoon C-2POSS-PROP  
 and he (the bird) said, “Please, do pick up your spoon!”
75. **a-kw-óṭape.kat a-kw-óti.at ḡucul [ḡ-əpən]**  
 CONJ-3-dip:DEPPRFV CONJ-3-find:DEPPRFV sauce C-bitter  
 And he (the tortoise) dipped (the asida in the sauce) and he found the sauce [bitter]

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<sup>55</sup> Sudanese Arabic interjection.

<sup>56</sup> **maṭṭa** is probably a loan, but of unclear origin. Used before Imperatives.



76. **a-kw-óme.kat itti ṭóma**  
 CONJ-3-say:DEPPRFV that friend  
 and he said: “Friend,
77. **ákk-a.kónn-óká ηocol η-ε-mεccm i-írrok**  
 FOC-NEG-be:DEPCOMPL sauce C-of-yesterday RES-(C-)cold  
 this is not the sweet sauce of yesterday!”
78. **a-kw-óme.kat-ók itti lá la la la<sup>57</sup>**  
 CONJ-3-tell:DEPPRFV-O3 that no no no no  
 And he (the bird) said to him: “No, no, no, no,
79. **akka η-kw-ícat cik i-racok t-ó-pari p-áj**  
 that 2-C-lie:INCOMPL VREF in-legs C-of.PERS-wife C-2POSS  
**εppm εppm noúk**  
 always always for\_nothing  
 because you are always lying between the legs of your wife doing  
 nothing,
80. **a-η-kw-εmma<sup>58</sup> itti**  
 CONJ-2-C-know\_not:INCOMPL that  
 don’t you know that
81. **ól w-á.řókó ηocol n.ti i-pirá-i**  
 people C-eat:INCOMPL sauce from in-tree-Q  
 people eat sauce from the forest?”
82. **a-kw-óηkat a-kw-íp.ať-ók a-kín éηkat<sup>59</sup> i-aôn**  
 CONJ-3-go:DEPPRFV CONJ-3-lead:DEPPRFV-O3 CONJ.PERS-3A go:DEPPRFV in-bees  
 And he went and he led him and they went to the honeycombs.

<sup>57</sup> Sudanese Arabic word *la* ‘no’.

<sup>58</sup> Here, conjunctive **á-** precedes the Incompletive verb **C-εmma**, suggesting that **C-εmma** functions rather like an adjective (‘ignorant (of)’) than like a verb.

<sup>59</sup> = **óηkat**.

83. **ana** **ᵛ-kín** **ᵗ-áᵗ-ᵗ-á.móttᵔ** **aón**  
 and PERS-3A C-be:PR-C-break\_off:INCOMPL bees  
 And they are breaking off the honeycombs
84. **a-pól** **p-ᵔ-nóppət** **ᵛccíᵗk.at** **a-p-ákkakat**  
 CONJ-person C-of-Nóppət hear:DEPPRFV CONJ-PRO-come:DEPPRFV  
 and the person of Nóppət heard it and he came.
85. **ᵗᵔma** **n-ᵗ-a.ík** **ᵗ-a.móttᵔ** **ᵗín-ᵗa**  
 friend 2A-C-be:PR C-break\_off:INCOMPL what-QW  
 “Friend, what are you(PL) breaking off?”
86. **ᵗn-ᵗ-a.ík** **ᵗ-a.móttᵔ** **aón**  
 1A-C-be:PR C-break\_off:INCOMPL bees  
 “We are breaking off honeycombs”.
87. **n-ánt-ᵛrrən-in** **n-tan** **k-ulukkû**  
 2A-can:DEPINCOMPL-throw\_for:DEPINCOMPL-O1 with-up\_on:ABS C-one  
 “Please throw one for me in my direction!”
88. **a-kw-ᵔme.kat-ᵔk** **ittı** **ím** **ᵗᵔma**  
 CONJ-3-tell:DEPPRFV-O3 that hmm friend  
 (but) He (the tortoise) said to him (the bird): “Hmm, friend,
89. **ᵗ-kw-a.rréne** **p-ém-p-ᵔᵗé** **áón** **w-ᵔ-ín** **w-ᵔ-im-p-én**  
 2-C-throw\_for:INCOMPL C-DEM-C-DIST bees C-of-what C-of-what-C-DEM  
 for what, for what will you throw (down) honeycombs for that  
 (person)?
90. **et-in** **aón** **cənə** **á-n-ᵔᵗᵔ** **ᵗəre** **n.tít**  
 give:IMP-O1 bees here SUBJ-1-pull:DEPINCOMPL honey from:ABS  
 Give me the honeycombs here, so that I suck the honey out of them
91. **á-n-ᵛrrén-ᵔk** **təᵗák**  
 SUBJ-1-throw\_for-O3 fibre  
 so that I throw (down) for him the empty comb”.
92. **a-kw-ᵔme.kat-ᵔk** **ittı** **é** **kəᵗᵔl**  
 CONJ-3-tell:DEPPRFV-O3 that hey tortoise  
 And he (the person of Nóppət) said to him: “Hey tortoise,

93. **η-kw-a.rren-m**                      **νόηək**                      **akka.in-ʔa**  
 2-C-throw\_for:INCOMPL-O1                      fibres                      why-QW  
 why do you throw (down) for me the empty combs?
94. **ant-eʔ-m**                                      **kaón**                      **í-k-óno**                      **ηəre**  
 can:DEPINCOMPL-give:DEPINCOMPL-O1                      bee                      RES-C-have                      honey  
 Please, give me a honeycomb which has honey!
95. **ηattəttápe ant-eʔ-m**                                      **kaón í-k-óno ηəre**  
 bird(sp)                      can:DEPINCOMPL-give:DEPINCOMPL-O1                      bee                      RES-C-have                      honey  
*ηattəttápe*-bird, please give me a honeycomb which has honey!"
96. **əttəttápe órré.kanʔ-ók**                      **kaón í-k-óno**                      **ηəre**  
 CONJ.bird(sp)                      throw\_for:DEPPRFV-O3                      bee                      RES-C-have                      honey  
 And the *ηattəttápe*-bird threw (down) for him a honeycomb which had honey,
97. **a-kw.in.at**                      **a-kw-ómə.kat**                      **itti**                      **kəʔól**  
 CONJ-3-taste:DEPPRFV                      CONJ-3-say:DEPPRFV                      that                      tortoise  
 and he (the person of Nəppət) tasted it and he said: "Tortoise,
98. **ménní ná**                      **á-kkəttene**                                      **kené**  
 today                      whéré:REL                      CONJ-(2-)pass\_for.PLUR:DEPINCOMPL                      your\_mother  
 now, on your mother, where will you pass! (i.e. you will not escape!)
99. **η-kw-íkkə p-ínane**                      **kəne**                      **ménní**                      **túllúk**  
 2-C-may                      C-know\_for:INCOMPL                      your\_mother                      today                      only  
 On your mother, you may know something just today!" (i.e. it seems you will experience something just today!)
100. **a-kw-ómə.kanʔ-ók**                      **itti**                      **ín-m**  
 CONJ-3-tell:DEPPRFV-O3                      that                      no-REDUP  
 But he (the tortoise) said to him: "No,
101. **əppətte**                                      **ʔ-əppətte**                      **ʔ-əjəʔə**                      **ʔ-ó-in-i**  
 pass.PLUR:DEPINCOMPL                      NOM-pass.PLUR                      NOM-walk                      C-of-what-Q  
 pass, passing, walking for what??"

102. **akka.în a-ṭṭó má p-á.ík p-á.nékó-n**  
 why CONJ-PERS-friend C-be:PR C-take:INCOMPL-O1  
 Why, my friend is carrying me,
103. **p-a.ṛákket-in i-kíṭṭi-kíṭṭi**  
 C-put:INCOMPL-O1 in-safe\_spot\_against\_body-REDUP  
 putting me in a safe place against his body
104. **á-ín-éḍ**  
 SUBJ-1A-go:DEPINCOMPL  
 so that he and I can go
105. **akka aon w-ḥmattát.ε**  
 that bees C-finish:COMPL  
 because the honey is finished”.
106. **a-kw-óme.kat-ók itti ṭóma m-p-a.ík p-a.éḍ pərin**  
 CONJ-3-tell:DEPPRFV-O3 that friend 1-C-be:PR C-go:INCOMPL completely  
 And he said to him, “Friend, I am leaving now”.
107. **a-kəṛḍl ḥmé.kat itti k-k-á.kuṛət**  
 CONJ-tortoise say:DEPPRFV that PRO-C-move\_up:INCOMPL  
 And the tortoise said to him that he will climb (on him)
108. **a-kw-íṭṭ.at cēn a-kw-óṛ.at kəṛḍl i-ḥuṛé attáp**  
 CONJ-3-pick:DEPPRFV palm\_fruit CONJ-3-throw\_at:DEPPRFV tortoise in-buttock attap  
 and he (the person of Nəppət) picked up a palm fruit and threw it at  
 the tortoise *attap* against his buttocks
109. **a-k-áp.at cɪ-nó-capó**  
 CONJ-PRO-fall:DEPPRFV LOC-on-ground  
 and he (the tortoise) fell right on the ground.
110. **a-kw-óme.kat-ók itti ŋ-kw-á.ṛuncə-n nóṭok cəṛí<sup>60</sup>**  
 CONJ-3-tell:DEPPRFV-O3 that 2-C-throw\_at.PLUR:INCOMPL-O1 for\_nothing wait:IMP  
 And he said to him: “You throw (palm fruits) at me in vain, stop it!”

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<sup>60</sup> = cəṛí ‘wait!’

111. **a-kw-ápp-əpákk.at**                      **tan**            **ŋ-cəɽê**  
 CONJ-3-again:DEPINCOMPL-return:DEPPRFV    up\_on:ABS    with-buttock  
 And he (the tortoise) went back up again with his bottom (i.e. with his bottom first)
112. **a-k-úɽunc.at**<sup>61</sup>                      **púccók**  
 CONJ-3-throw\_at.PLUR:DEPPRFV    for\_some\_time  
 and he (the person of Nəppət) threw (at the tortoise) for some time
113. **a-mén**                      **ómótta.kar-a**  
 CONJ-palm\_fruits    become\_finished:DEPPRFV-ATT  
 and the palm fruits got finished.
114. **a-kw-ómə.kəɽ-ók**            **ittɪ**  
 CONJ-3-tell:DEPPRFV-O3            that  
 And he (the tortoise) said to him:
115. **ana**            **mén**            **m-êɽɪk**            **m-əməttát.ə**  
 and            palmfruits    C-be\_NEARADDR    C-become\_finished:COMPL  
 “And the palm fruits there with you are finished,
116. **ana**            **ŋ-kw-ápp-əɽunc.at-m**                      **ŋim-p-ên**  
 and            2-C-again:INCOMPL-throw\_at.PLUR:DEPPRFV-O1    what-C-DEM  
 and what will you throw at me again?”
117. **a-kw-ómə.kəɽ-ók**    **ittɪ**            **app-əkúɽət**                      **n-tán**  
 CONJ-3-tell:DEPPRFV-O3    that            again:DEPINCOMPL-move\_up:DEPINCOMPL    with-up\_on:ABS  
 And he (the person of Nəppət) said to him (the tortoise), “You climb up again!” (if you can!)
118. **akka**            **k-kw-ókúɽət.é**            **n-tán**<sup>62</sup>  
 that            3-C-move\_up:COMPL            with-up\_on:ABS  
 When he had climbed up

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<sup>61</sup> = **akwóɽuncat**.

<sup>62</sup> **ntán** was explained as ‘towards the storyteller’, as if the storyteller (as deictic centre) has located himself up in the tree.

119. **a-kəʔɔl**      **ɔʔi.at**      **mén**      **m-ellâ**  
 CONJ-tortoise    find:DEPPRFV    palm\_fruits    c-be\_absent:INCOMPL  
 the tortoise found there were no palm fruits (left)
120. **a-kw-ɔmɛ.kat**    **itti**    **ʔɔma**    **ɔnek-ɔn**  
 CONJ-3-say:DEPPRFV    that    friend    take:IMP-O1  
 and he said, “Friend, take me!”
121. **akka k-kw-ɔnekɔ.r-ɔk**    **ittiná**    **a-kín**      **ɔŋkat**  
 that    3-C-carry:COMPL-O3    so    CONJ.PERS-3A    go:DEPPRFV  
 When he (the bird) had taken him like that, they went.
122. **akka ɔ-kín ɔkkɔ**      **í-róé**    **a-kw-ɔmɛ.kat-ɔk**    **itti ʔɔma**  
 that    PERS-3A    pass:DEPINCOMPL    in-river    CONJ-3-tell:DEPPRFV-O3    that    friend  
 When they reached the river, he (the bird) said to him: “Friend,
123. **m-p-ɔkɪɲá.t**      **ɔkun**      **én-n-í**  
 1-C-become\_tired:COMPL    hand      DEM-C-NEARSP  
 I am tired in this arm (wing)
124. **ana**    **m-p-a.ik**    **p-a.nókkeʔ-ɔŋ**      **kárɔ-ʔâ**  
 and    1-C-be:PR    C-put\_down:INCOMPL-2O    where-QW  
 but where am I putting you down?”
125. **a-kw-ɔmɛ.kat-ɔk**    **itti ɔpəʔəttəʔ-in**    **ʔ-ɔkkón**    **én-n-əʔé**  
 CONJ-3-tell:DEPPRFV-O3    that    turn\_at:IMP-O1    at-hand    DEM-C-DIST  
 And he told him, “Change me to that hand!” (i.e. take me under your other wing)
126. **akka**      **k-kw-ɔpəʔəttɔ.r-ɔk**<sup>63</sup>  
 that      3-C-turn:COMPL-O3  
 When he (the bird) changed him
127. **ǎccɪk.at**      **a-k-kw-ɔllókkwɔ.t**      **(akka)**<sup>64</sup>  
 CONJ.(2.)hear:DEPPRFV    CONJ-3-C-slip:COMPL    that  
 you could hear he (the tortoise) had slipped (away) (because)

<sup>63</sup> The boundary tone on the third person object pronoun clitic causes tone bridge over the verb. The verb would otherwise be **kkwɔpəʔəttəʔɔk**.

<sup>64</sup> According to JS, **akka** is not good here.

128. **kəʀuntök** **kəʀuntök**<sup>65</sup> **a-kw-óme.kat** **itti**  
 kəʀuntök kəʀuntök CONJ-3-say:DEPPRFV that

*kəʀuntök, kəʀuntök, and he (the tortoise) said:*

129. **ʦóma** **ʦóma** **ɔccəkət-ɪm-mê** **ʦóma** **ɔccəkət-ín**  
 friend friend catch:IMP-O1-URG friend catch:IMP-O1

“Friend, friend, catch me!! Friend, catch me,

130. **á-kocök** **ɪ-róé**  
 SUBJ-plop in-river

or *plop* into the river!”

131. **a-kw-óll.át** **á-kw-írík.at** **ɪ-róé**  
 CONJ-3-run:DEPPRFV CONJ-3-enter:DEPPRFV in-river

He (the tortoise) ran and he entered into the river. (i.e. the tortoise fell on the ground first and then quickly ran and jumped into the river)

132. **a-kw-óme.kat-ók** **itti** **na-ppóttene** **kené**  
 CONJ-3-tell:DEPPRFV-O3 that where:REL-(2-)pass\_for.PLUR:DEPINCOMPL your\_mother

He (the person of Nəppət) said to him: “On your mother, where will you pass,

133. **ménní** **m-p-ínan-ɔŋ** **kəné**  
 today 1-C-know\_for-O2 your\_mother

on your mother, now I know you!” (i.e. I know where you are)

134. **a-kw-óřík.at** **ɪ-rək-â**  
 CONJ-3-wait:DEPPRFV in-river-ATT

But he (the tortoise) waited in the river

135. **a-paŋti** **éŋkat**<sup>66</sup> **a-kw-ócca.kat**  
 CONJ.PERS-person go:DEPPRFV CONJ-3-scoop:DEPPRFV

and that person (the person of Nəppət) went and he scooped some water out

<sup>65</sup> NaA and JS were not sure how this word sounded and the transcription is only tentative.

<sup>66</sup> = **ɔŋkat**.

136. **a-kw-ḡḡkat a-kw-ḡkkott.at áṛəpə n-tan w-ḡ-nə-rue tárra**  
 CONJ-3-go:DEPPRFV CONJ-3-collect:DEPPRFV things with-up\_on:ABS C-of-on-river all  
 and he went and he collected towards him all the animals at the river

137. **a-kw-ḡna.kat a-kw-ḡme.kat itti**  
 CONJ-3-bring:DEPPRFV CONJ-3-say:DEPPRFV that  
 and he brought (them) and he said:

138. **n-ánt-át-ḡkkjn-m ḡəri**  
 2A-can:DEPINCOMPL-VEN:DEPINCOMPL-drink\_for:DEPINCOMPL-O1 water  
 “Please come and drink the water for me,

139. **ákka ḡ.əṛəl ḡ.əṛək ḡ-apəṭ.é cənέ**  
 that little\_tortoise C-some C-fall\_at:COMPL here  
 because some nasty little tortoise has fallen here”.

140. **khalas<sup>67</sup> ittíná k-kw-ḡme.kát-ək itti**  
 that's\_it so 3-C-tell:DEPPRFV-O3 that  
 Okay, so he told him that (unclear who is meant here by ‘him’)

141. **ḡ.əṛəl eḡ-ḡ-i ḡ-apəṭ.é cənέ**  
 little\_tortoise DEM-C-NEARSP C-fall:COMPL here  
 this little tortoise has fallen here.

142. **a-kw-ḡme.kat itti ant-əcəṛə**  
 CONJ-3-say:DEPPRFV that can:DEPINCOMPL-wait:DEPINCOMPL  
 And he said (to the tortoise), “You wait,

143. **ḡ-kw-á.ppətte kəren**  
 2-C-pass.PLUR:INCOMPL where  
 where will you pass?!”,

144. **ámmá á-k-ús**  
 if CONJ-3-descend:DEPINCOMPL  
 while he (the tortoise) goes down

<sup>67</sup> Sudanese Arabic interjection *khalas* ‘that’s it, so much for that, enough’.



145. **á-kw-óppət**                    **nó-kútút** **k-ó-rók**    **á-kw-arrət**                    **cík**  
 CONJ-3-pass\_at:DEPINCOMPL on-lip                    C-of-river                    SUBJ-3-cross:DEPINCOMPL VREF  
 and moves along the side of the river in order to cross it
146. **á-kw-ópákkət**                    **ɲ-cəné**                    **nó-kútút**                    **k-ó-rók**  
 CONJ-3-return:DEPINCOMPL with-here                    on-lip                    C-of-river  
 and returns from here on the side of the river (i.e. the other side)
147. **á-kw-arrət**                    **cík**  
 SUBJ-3-cross:DEPINCOMPL VREF  
 in order to cross it (i.e. to cross it again).
148. **a-kw-óme.kat-ók**    **ittɪ**    **ɲ-kw-a.kkót**    **lən**                    **əl-l-ərík**  
 CONJ-3-tell:DEPPRFV-O3    that    2-C-do:INCOMPL    words                    DEM-C-NEARADDR  
 And he (the person of Nəppət) said to him: “You do those things,
149. **ɲ-kw-íkkə**    **p-ínane**                    **kəne**                    **inénni túllúk**  
 2-C-may                    C-know\_for:INCOMPL    your\_mother                    today                    only  
 on your mother, you may know something just today, (i.e. it seems you are going to experience something just today)
150. **ámmá**    **m-p-ánn-ókíncət-ɔɲ**                    **ca**    **cík**  
 if                    1-C-NEG-crush\_by\_throwing\_stones\_at.PLUR:DEPCOMPL-O2    head    VREF  
 if I will not have crushed your head by throwing stones”.
151. **khalas**<sup>68</sup>    **akka**    **árəpu**    **w-íkkót**                    **ɲərí**  
 that's\_it                    that                    things                    C-drink:COMPL                    water  
 So then, when the animals had drunk the water,
152. **a-kətól**    **ótákkar.at**                    **ɪ-ar**                    **éɲ-ɲ-ərík**                    **ɲ-əté**    **cík**  
 CONJ-tortoise    move\_aside:DEPPRFV                    in-mud                    DEM-C-NEARADDR    C-small                    VREF  
 the tortoise moved aside into that small mud.
153. **akka**    **ɔpa**                    **w-aa.r-â**  
 that                    piece\_of\_meat                    C-come:COMPL-ATT  
 When the wild animal came,

<sup>68</sup> Sudanese Arabic interjection *khalas* ‘that’s it, so much for that, enough’.

154. **a-k-ú.at**                    **ɪ-kəɾál**                    **ɛŋ-k-əɾɪk**                    **k-ɔttê**  
 CONJ-PRO-descend:DEPPRFV    in-small\_water\_spot    DEM-C-NEARADDR    C-small  
 he moved down into that small water spot.
155. **akka ɔpa**                    **én-n-əɾé**    **w-ɔ-rɪ-pɪrá**    **w-aa.t**                    **ɪ-əɾɪk**    **ɪkê**  
 that    piece\_of\_meat    DEM-C-DIST    C-of-in-tree    C-come:COMPL    RES-(C-)big    giraffe  
 When that big wild animal of the forest, the giraffe, came,
156. **a-ɪkk.at**                    **ŋəɾɪ**    **a-kw-óllokkw.at**    **ɪ-carək**    **c-ɔ-ɪke**  
 CONJ-(PRO-)drink:DEPPRFV    water    CONJ-3-slip:DEPPRFV    in-belly    C-of-giraffe  
 he drank water and he (the tortoise) slipped into the stomach of the giraffe
157. **a-kw-ɔɿ.at**                    **kəɾɿttán**                    **ń-tɔ-kəɾɪkɪ**  
 CONJ-3-pull:DEPPRFV    knife                    with-up\_on-elbow  
 and he pulled his knife from his elbow
158. **a-kw-ɔkɪ.at**                    **ɪke**                    **lɔŋkwɛ**    **appəɾɔt**  
 CONJ-3-cut:DEPPRFV    giraffe                    lungs                    *appəɾɔt*  
 and he cut the lungs of the giraffe *appəɾɔt*
159. **a-ɪke**                    **ap.at**                    **n-nórr-a**<sup>69</sup>  
 CONJ-giraffe    fall:DEPPRFV                    with-upright\_position-ATT  
 and the giraffe, from standing straight up, fell over
160. **a-úl**                    **ɔpəlle**                    **a-áɾəpɔ**                    **ɛn-n-əɾɪk**  
 CONJ-people    fear:DEPINCOMPL    CONJ-things                    DEM-C-DIST  
 while the people were fleeing and those animals,
161. **a-kəpa**                    **ɔpəlle.kat**                    **tárra**  
 CONJ-forest\_animal    fear:DEPPRFV                    all  
 all the forest animals fled
162. **mónó**                    **á-kw-ɔɿ.at**                    **pól**                    **p-ɔ-nóppət**  
 until                    CONJ-3-find:DEPPRFV    person                    C-of-Nóppət  
 till he (the tortoise?) found the person of Nəppət

<sup>69</sup> Before the attention particle -a, r of *nər* is pronounced with length.

163. **a-kw-šcukkwar.at cirk mónš á-pól p-š-nšppət í.at**  
 CONJ-3-step\_on.PLUR:DEPPRFV VREF until CONJ-person C-of-Nšppət die:DEPPRFV  
 and he stepped (on him) repeatedly until the person of Nšppət died.

164. **a-kín šcšt.at kšrúŋ éŋ-k-í ítíná pəŋin**  
 CONJ.PERS-3A finish:DEPPRFV story DEM-C-NEARSP so finally  
 And like this they finally finished the story.



## Lumun word list

The list below (Appendix V) contains the ca. 200 items used in Schadeberg's overviews of Heiban and Talodi (1981a, 1981b), as well as additional words from the Leipzig-Jakarta list (Haspelmath & Tadmor, 2009), in all ca. 250 items.

English	Lumun
all	<b>appík</b>
animal	<b>papu / aɾəpu</b> 'thing'
ant	<b>cipít / mipít</b>
arm	<b>cəmən / kəmən</b> <b>ukón / jaón</b> 'forearm, hand'
ash(es)	<b>mucúk</b>
back (n.)	<b>kucúl / ucúl</b>
bad	<b>C-əkítak</b>
bark (n.)	<b>təmmâk / nəmmâk</b>
belly	<b>carók / kərók</b>
big	<b>C-ittík</b>
bird	<b>puɾupê / uɾupê</b>
bite (v.)	<b>əkəɾɔ̄</b> (also 'burn')
bitter	<b>C-əpón</b>
black	<b>C-əɲí</b>
blood	<b>ɲɔccók (/ ɲɔccók), ɲiccók (/ ɲiccók)</b>
blow (v.)	<b>əkɰwɔ̄</b>
blunt	<b>C-ərrô</b>
bone	<b>cɔmɪan / mɔmɪam</b>
branch	<b>kuɾĩ / uɾĩ</b>
breast	<b>cɪmmɪk / kɪmmɪk</b>
breath	<b>cəkɰwâ / məkɰwâ</b>
brother	<b>əpáɲ / əpaɲɔ̄n</b> 'sibling' (also: <b>əpaɲ ɪ-p-ɔ̄cɔra</b> 'male sibling')
burn (tr.)	<b>əkəɾɔ̄</b> (also 'bite')
carry	<b>ənékɔ̄</b> (also 'take')
child	<b>ukul / ɲukul</b>
claw	<b>kaɾĩ / aɾĩ</b> (also 'nail, louse')

clean ( <i>adj.</i> )	C-ᵛᵛᵛᵛ
clothing	kəréᵛ / əréᵛ
cloud	tᵛᵛᵛᵛᵛ / nᵛᵛᵛᵛᵛ
cold	C-írúᵛ
(multi) coloured	C-ᵛᵛᵛᵛᵛᵛ ‘spotted’ (pattern)
come	aᵛ
cook ( <i>v.</i> )	ᵛᵛᵛᵛ
count	ᵛᵛᵛᵛᵛᵛ
cow	waᵛ / kiᵛ
crush	ᵛkákᵛᵛᵛᵛᵛ
cry	ᵛᵛ
cut ( <i>v.</i> )	ᵛkᵛᵛ
dance ( <i>v.</i> )	ᵛkkᵛᵛ, also ᵛkkᵛ
day (counting unit)	caᵛᵛ / maᵛᵛ
die	ᵛᵛ
dig	ᵛᵛᵛᵛ
dirty	ᵛᵛᵛᵛᵛᵛ ( <i>v.</i> ) ‘become dirty’
do	ᵛkkᵛᵛ (also ‘make’)
dog	ᵛᵛᵛ / lᵛᵛᵛ
drink	ᵛᵛᵛᵛᵛ
dry	C-ᵛᵛᵛᵛᵛᵛᵛ
dust (blown by wind)	kᵛᵛᵛᵛᵛᵛᵛ, also tᵛᵛᵛᵛᵛᵛᵛᵛ (unpaired nouns)
ear	kunú / unú
earth	caᵛᵛ
eat	ᵛᵛᵛᵛᵛ
egg	cᵛᵛ / mᵛᵛ
empty	ᵛᵛ-caᵛᵛᵛᵛ (lit. ‘with opening’)
eye	cᵛᵛᵛ / kᵛᵛᵛᵛ
fall ( <i>v.</i> )	apᵛᵛ
far	cᵛᵛᵛᵛᵛᵛᵛ
fat ( <i>n.</i> )	ᵛᵛᵛᵛᵛᵛ
father	ᵛᵛᵛᵛᵛᵛ ‘his, her father’
fear ( <i>v.</i> )	ᵛᵛᵛᵛᵛ
feather	kᵛᵛᵛᵛᵛᵛᵛ / ᵛᵛᵛᵛᵛᵛᵛᵛ (also ‘wing’)
few	C-ᵛᵛᵛᵛᵛᵛ, C-ᵛᵛᵛᵛᵛᵛ
fight ( <i>v.</i> )	ᵛᵛᵛᵛᵛᵛᵛ
field	kəᵛᵛᵛᵛ / əᵛᵛᵛᵛᵛᵛ
finger	caᵛᵛᵛᵛ / maᵛᵛᵛᵛᵛᵛ

fire ( <i>n.</i> )	<b>ṭīk / līk</b>
fish ( <i>n.</i> )	<b>papê / apê</b>
float	<b>aṛəkə</b>
flow	<b>ɔ́úrə</b>
flower	<b>pəɾɛn</b> (unpaired noun)
fly ( <i>v.</i> )	<b>ṭirə</b>
fog	<b>pəɾucê</b>
food	<b>ṭuɾīt (/ luɾīt)</b>
foot	<b>wék / tacók</b>
fruit	<b>ʊkul wəpɪra / ɲʊkul ɲəpɪra</b> (lit. ‘child of tree’)
full	<b>ɔppât</b> ( <i>v.</i> ) ‘become full’
gazelle	<b>wallīr, allīr / kallīr</b>
give	<b>ɛṭɛt</b>
go	<b>ɛḥ</b>
goat	<b>ṭimīt / liɾók</b>
good	<b>C-ɔpəɾət</b>
blade of grass/grass	<b>kwacə / tacə</b>
green	<b>C-íccí</b>
guts	<b>kút / út</b>
hair	<b>kwǎn / wǎn</b>
hand	<b>ʊkún / ɲaún</b>
hard	<b>C-ɔntómat</b>
he, she	<b>ɔḥk</b>
head	<b>cá / má</b>
hear	<b>ɔccīkət</b>
heart	<b>cīkīt / məkīt</b>
heavy	<b>C-ṭimmīn</b>
hide	<b>ɔrúkwo, also ɔrúko</b>
hit	<b>ɔkkwô</b>
hoe	<b>kɪrék / ɪrék</b>
hole	<b>cəruk / kəruk</b> ‘opening, hole’, <b>tuɾú / nuɾú</b> ‘hole in the ground, grave’
horn	<b>ṭɪpíl / lɪpíl</b> (part of animal), <b>ṭɪpíl / lɪpíl</b> (musical instrument)
house	<b>mǎn / kəmən</b>
hunt ( <i>v.</i> )	<b>ɲáppə</b> ( <i>n.</i> )
husband	<b>pəɾɛ / əɾɛ</b>
I	<b>ɔún</b>

in	ɪ- (+ tone-pattern on noun)
kill	ɔkkwɔt
knee	kʊŋkʊ / ʊŋkʊ
knife	kəɾɿttǎŋ / ɛɾɿttǎŋ
know	ma
lake	tɔk ɪ-r-apáŋka / nɔk ɪ-n-apáŋka (lit: 'waterplace that waves')
laugh	ɔccɿɾɔ
leaf	taɾa / naɾa
left (side)	ɿɾ-kkʊn w-ɔ-kúrê (lit. 'at hand of left side') kúrê 'left side'
leg	wék / tacɔk
lie (down)	ɿcat cik
light (not heavy)	C-íppappat
live (at)	ɪkkɔ cik
live (be alive)	ɔkkɔ cik
liver	ɿŋkwe / lʊŋkwe, also ɿŋke / lʊŋke
long	C-úkwɿt
louse	kaɾɿ / aɾɿ (also 'claw, nail')
man	pʊl ɪ-p-ɔcʊra / ʊl ɪ-ɔmʊra 'person who is male'
many	C-ɔppɔt
meat	ɔpá / kəpá
moon / month	kwanɔk / (w)anɔk
mother	ɔnnân 'his, her mother'
mountain	cəɾɔŋ / mɔɾɔŋ
mouth	ɿɾn / lɔn (lɔn also 'words, matter(s)')
nail	kaɾɿ / aɾɿ (also 'claw, louse')
name	kəɾan / ɛɾan
narrow	C-ɔkəɾɿakɔɿe (lit. 'be squeezed')
navel	ɿuttê / luttê
near	ɪ-ccɿk k-ɔ- (lit. 'in place of') napəttɔt, also nɔpəttɔt (adverb)
neck	cələk / kələk
new	C-ɪé
night	ŋkəɾâ
nose	kɿɾce / ɿɾce
not	ɔkəɾənnɔ (v.) 'let, allow, abstain from'
old (not new)	C-ɿpe



old (not young)	<b>u<sub>kk</sub>wa</b> , also <b>u<sub>kk</sub>a</b> (v.) ‘become old’
person / people	<b>pul / ul</b>
play	<b>appu<sub>ṭ</sub>a</b>
pull (v.)	<b>ṭṭṭ</b>
push	<b>ṭṭṭ</b>
rain (n.)	<b>ka<sub>ṭ</sub>ik</b>
red	<b>C-ṭṭṭ</b>
right (correct)	<b>ṭṭṭ</b> ‘true!, indeed!’
right (side)	<b>ṭṭ-<sub>kk</sub>un w-ṭ-ṭarí</b> ‘at hand of right side’
river	<b>tué / nué</b>
road	<b>ka<sub>ṭ</sub>ṭ / a<sub>ṭ</sub>ṭ</b>
root	<b>ṭṭa / lṭa</b>
rope	<b>ṭṭṭ / lṭṭ</b>
rotten ( <i>adj.</i> )	<b>ṭṭṭṭa</b> (v.) ‘become rotten’
rough	<b>C-ṭṭṭṭ</b>
round	<b>C-ṭṭṭṭṭ</b>
rub	<b>ṭṭṭṭ</b> (collocates with oil, apply oil to the skin)
run	<b>ṭṭṭ</b>
salt	<b>ṭṭṭṭṭṭ / ṭṭṭṭṭṭ, ṭṭṭṭṭṭ / ṭṭṭṭṭṭ</b> (lit. ‘sauce of Arabs’)
sand	<b>ka<sub>m</sub>ṭ / ṭa<sub>m</sub>ṭ</b>
say	<b>ṭṭ</b>
scratch	<b>ṭṭṭṭṭ</b>
see	<b>ṭṭṭṭ</b>
seed	<b>ṭṭṭ / mṭṭ</b>
sew	<b>ṭṭṭ</b>
shade	<b>ṭṭṭṭṭ / nṭṭṭṭṭ</b>
sharp	<b>C-ṭṭṭṭ</b>
shoot (v.)	<b>ṭṭṭ</b>
short	<b>C-ṭṭṭṭ</b>
sing	<b>ṭṭṭṭ</b>
sibling	<b>ṭṭṭṭ / ṭṭṭṭṭ</b>
sister	<b>ṭṭṭṭ / ṭṭṭṭṭ</b> (also <b>ṭṭṭṭ ṭ-p-ṭṭarí</b> ‘female sibling’)
sit	<b>ṭṭṭṭ ṭṭ</b>
skin	<b>ku<sub>ṭ</sub>ṭ / u<sub>ṭ</sub>ṭ</b>
sky	<b>ṭṭṭṭ</b>
sleep (v.)	<b>ṭṭa ṭṭṭ</b> (lit. ‘be in sleep’)

small	C- <b>ᵛtté</b> , C- <b>ᵛtté</b>
smell (v.)	<b>ᵛkkunakət</b> (intr.)
smoke	<b>kucúk</b>
smooth	C- <b>ᵛnəṛâ</b> (also ‘soft, infertile (of a man)’)
snake	<b>ṛṇṇ / ṇṇ</b>
soil	<b>nunṭú</b> ‘fine-grained soil’ (unpaired noun)
speak	<b>ere</b>
spear	<b>kaṭúk / aṭúk</b>
spit (v.)	<b>ᵛṭúkkwə ṇök</b> (also <b>ᵛṭúkkə ṇök</b> ) (lit. ‘throw saliva’)
split	<b>illə</b>
squeeze	<b>ᵛkáṛət</b>
stab	<b>éé</b>
stand	<b>ᵛcəṛə</b>
star	<b>cəṭət / məṭət</b> (also ‘hail stone’)
stick	<b>kurrōṇ / urrōṇ</b>
stone	<b>pəṭək / məṭək</b>
straight	<b>accuṇkūr</b> ‘straight ahead’
suck	<b>akə</b>
sun	<b>cṇṇkṇ / mṇṇkṇ</b>
sweet	C- <b>ᵛtṛót</b>
swell	<b>ᵛṭəkət cik</b>
swim	<b>aṛəkə</b> (of fish, also: ‘float’)
	<b>ᵛṭṭuᵛṭṭa</b>
tail	<b>kuttṭṭk / utṭṭk</b>
take	<b>ᵛnékə</b> (also ‘carry’)
thick	C- <b>ṛttáṭe</b> ‘be thick’
thigh	<b>cṇṇ / mṇṇ</b>
thin	C- <b>ᵛttékárân</b> or C- <b>ᵛttékálân</b>
thing	<b>papə / aṛəpə</b>
think	<b>ᵛkwárəttṭkət cik</b>
this	<b>en-c-í</b>
thorn	<b>ṭṭ / lṭ</b>
throw	<b>ᵛrrê</b>
tie	<b>ṭṭṭkə</b>
tongue	<b>ṭṭə / luṭə</b>
tooth	<b>cṇṇṭ / kṇṇṭ</b>
tree	<b>pṛa / kṛa</b>

turn	<b>ᵛp̄érəttakō</b> ‘turn oneself’
vomit	<b>utte</b>
walk	<b>ᵛnárō</b>
warm	<b>C-íppá</b>
wash	<b>ᵛmē</b> (also ‘rub’)
water	<b>ᵛəṛĩ / n̄əṛĩ</b>
wet	<b>C-íán</b>
what?	<b>ᵛín̄ta</b>
when?	<b>acín̄ta</b>
where?	<b>karəṭâ</b> (also <b>karəṭa</b> )
white	<b>C-ɪpók</b>
who?	<b>ᵛṭṭa / ᵛṭṭân</b>
wide	<b>C-ape</b>
wife	<b>parí / arí</b>
wind	<b>kənáŋ</b>
wing	<b>kuṛəccō / uṛəccō</b> (also ‘feather’)
	<b>ukón / naón</b> ‘hand’
wipe	<b>ukkwōt</b> (also <b>ukkōt</b> )
	<b>ᵛllâ</b> ‘wipe something away’
woman	<b>pul ɪ-p-ᵛparí / ul ɪ-á-arí</b> (lit. ‘female person’)
woods	<b>ɪ-pirâ</b> (lit. ‘in the tree’), <b>ɪ-kirâ</b> (lit. ‘between the trees’)
word(s)	<b>lōn</b>
work (n.)	<b>ᵛəre</b> (?/ <b>n̄əre</b> )
work (v.)	<b>ᵛrékō</b>
worm	<b>təŋək / nəŋək</b>
wrong	<b>C-ᵛkítak</b> ‘bad’
year	<b>ṭupot / lupot</b>
yellow	<b>C-ᵛtəlō</b>
yesterday	<b>məccín</b>
you (singular)	<b>ᵛóŋ</b>
one	<b>C-ulukkû</b>
two	<b>C-erá</b>
three	<b>C-əṛapórok</b>
four	<b>C-ᵛcəṛn</b>
five	<b>C-ukulúk, C-úkúlúk, ukulúk</b>
six	<b>C-əṛâkkorok, C-əṛárəporok</b>

seven	C-êŕe-C-əŕapóruk, C-êŕeŕapóruk, C-ócaŕa-C-əŕapóruk
eight	C-amóŕəmər, mərəmər
nine	C-ókullácəŕm, C-ókullácəŕm, okullácəŕm
ten	C-attol, attol
twenty	arriál
hundred	arriál ukulúk

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## Nederlandse samenvatting

Dit proefschrift beschrijft de grammatica van het Lumun, een Kordofaanse taal van de Talodi-groep uit het zuidelijk deel van de Nuba Bergen in Soedan. Het Lumun heeft ca. 15.000 sprekers.

Hoofdstuk 1 geeft beknopte informatie over de sprekers en hun woongebied, en over de positie en classificatie van het Lumun. Het vermeldt eerdere publicaties over het Lumun en publicaties over andere talen van de Talodi-groep, en noemt ook een aantal recente studies over talen van de Heiban- en Katla-groepen in de Nuba Bergen. In de inleiding wordt ook ingegaan op de manier waarop het onderzoek is uitgevoerd en de verslaglegging daarvan in deze studie.

Hoofdstuk 2 behandelt het klanksysteem van het Lumun. Het Lumun heeft consonanten op de bilabiale, dentale, alveolaire, post-alveolaire, palatale, velaire en labio-velaire articulatieplaatsen. Voor de obstruenten geldt dat hoe zij precies gearticuleerd worden (als stemloze plosief, stemhebbende plosief of als stemhebbende fricatief/approximant) afhangt van hun positie in het woord en naastliggende klanken, ook over de woordgrens heen. Opvallend is dat stemloze fricatieven in de taal helemaal niet voorkomen. Het Lumun heeft acht klinkers, waaronder een schwa die verschillende gedaanten kan aannemen. Hij wordt veelal gecoarticuleerd met een klinker in een naastliggende lettergreep en is vaak zeer kort. Er zijn echter ook woorden waarin geen andere klinkers dan schwa's voorkomen en ook een zeer korte schwa kan de drager zijn van een hoge toon. In de hoge klinkers is er ATR contrast (-ATR **ɪ** en **ʊ** tegenover +ATR **i** en **u**). Behalve in (bijna) minimale paren is het echter vaak moeilijk uit te maken tot welke set een woord behoort, ook voor de sprekers zelf, en het lijkt erop dat deze oppositie aan het verdwijnen is.

Hoofdstuk 3 presenteert het toonsysteem van het Lumun. Er worden vier tonemen onderscheiden: hoog, laag, dalend en stijgend, met de mora als de toondragende eenheid. Anders dan de naamgeving wellicht suggereert wordt een geïsoleerd woord met stijgende toon niet stijgend uitgesproken maar op een vlak blijvende toonhoogte.

Deze toon wordt iets hoger ingezet dan een lage toon en anders dan in een geïsoleerd woord met lage toon ontbreekt aan het einde van het woord een toondaling. Het (onderliggend) stijgende karakter van deze toon wordt vooral duidelijk in context, onder meer wanneer er een woord volgt dat zelf geheel laag is. Dit lage woord ontvangt nu een hoge toon van het woord met stijgende toon. Op zelfstandig naamwoorden worden vier grote toonpatronen onderscheiden die overeenkomen met de vier tonemen, die met elkaar contrasteren op de laatste mora van het zelfstandig naamwoord. Op werkwoorden en werkwoordsvormen is het beeld iets beperkter: daar wordt de stijgende toon niet gevonden. Toonveranderingen in context worden gedomineerd door twee processen. Het eerste betreft shift van een finale hoge toon (waaronder ook vallen het hoge deel van een finale stijgende toon en een zwevende hoge toon): een woord-finale hoge toon in niet-prepauzale positie verandert in een lage toon, terwijl op de eerste mora van het volgende woord een dalende toon verschijnt, tenminste voor zover de toonstructuur van dat woord dat toelaat. Het tweede proces is vereenvoudiging van een contour toon (typisch een dalende toon) op een enkele mora in niet prepauzale positie. De dalende toon wordt in dat geval gerealiseerd als hoog. Er is nog een derde proces dat van invloed is op de uiteindelijke tonale realisatie: toonbrug, d.w.z. dat alle lage tonen tussen twee hoge tonen (of tussen een hoge en een dalende toon) hoog worden. Toonbrug is soms verplicht en soms facultatief. Wanneer toonbrug precies toegepast moet of kan worden is nog grotendeels onduidelijk. Tenslotte zijn er grammaticale morfemen die specifieke tooneffecten hebben. Vier clitische voorzetsels zijn daarvan een voorbeeld, alsook bepaalde clitische onderwerpsvoornaamwoorden (de 3e persoon enkelvoud alsook onderwerpsclitica die verwijzen naar woorden uit de verschillende naamwoordklassen).

Hoofdstuk 4 gaat in op zelfstandig naamwoorden, die geordend zijn in een systeem van naamwoordklassen. Het hoofdstuk presenteert de toonpatronen van de zelfstandig naamwoorden en beschrijft hun morfologie. Elk (gewoon) zelfstandig naamwoord valt binnen een naamwoord klasse, die op het naamwoord gemarkeerd is door een naamwoordklasse prefix. Naamwoordklassen komen typisch voor in paren waarbinnen enkelvoudige vs. meervoudige referentie



uitgedrukt wordt. Enkelvoudige dan wel meervoudige referentie krijgt dus gestalte via het naamwoordklasse prefix, waarbij opvalt dat enkele prefixen enkelvoud aanduiden in het ene klassepaar en meervoud in het andere. Naamwoorden met bepaalde betekenisaspecten hebben (in meerdere of mindere mate) een neiging zich te groeperen in een specifiek klassepaar. Per klassepaar wordt een beeld gegeven van de semantische noties die in dat paar meer geconcentreerd voorkomen, maar aandacht wordt ook besteed aan naamwoorden met andere betekenissen. In het hoofdstuk komen verder afgeleide naamwoorden aan de orde, alsook samengestelde (complexe) naamwoorden, leenwoorden en verwantschapstermen en persoonsnamen. Verwantschapstermen en persoonsnamen vallen, in elk geval gedeeltelijk, buiten het naamwoordklasse systeem. Meervoudige referentie wordt uitgedrukt door een suffix op de enkelvoudige term. Verder hebben verwantschapstermen en persoonsnamen een specifiek prefix wanneer ze referentieel gebruikt worden; bij vocatief gebruik is dit prefix afwezig.

Bijvoeglijke naamwoorden en sommige telwoorden, bezittelijke voornaamwoorden en aanwijzende voornaamwoorden congrueren met de naamwoordklasse van het (gewone) zelfstandig naamwoord dat zij bepalen. Hoofdstuk 5 geeft een overzicht van de prefixen die deze congruentie markeren. Dezelfde prefixen worden ook gebruikt om de naamwoordklasse van het onderwerp te markeren op het (niet-afhankelijke) werkwoord. Op vergelijkbare wijze is er congruentie tussen verwantschapstermen en persoonsnamen enerzijds en modificeerders en (niet-afhankelijke) werkwoorden anderzijds. Daarbij wordt enkelvoudige en meervoudige referentie van het naamwoord onderscheiden. Congruentie is er ook tussen vrije en clitische voornaamwoorden (of die nu verwijzen naar verwantschapstermen en persoonsnamen of naar gewone zelfstandig naamwoorden) en modificeerders en (niet-afhankelijke) werkwoorden.

Hoofdstuk 6 geeft een overzicht van persoonlijke voornaamwoorden en van al dan niet clitische voornaamwoorden die gewone naamwoorden substitueren. Er zijn acht persoonlijke voornaamwoorden: ik; jij; hij/zij; ik + jij (2 personen); ik + één of

meer anderen (wij ‘exclusief’); ik + jij + één of meer anderen (wij ‘inclusief’); jullie; zij (meervoud). De persoonlijk voornaamwoorden hebben zowel een vrije (volledige) vorm als vormen waarin zij optreden als clitisch onderwerp, clitisch object, tweede (vrije) object en als complement van een clitisch voorzetsel. ‘Ik + jij’ en ‘ik + jij + één of meer anderen’ hebben bovendien vormen voor gebruik in hortatieve uitdrukkingen, en ‘jullie’ voor gebruik in gebiedende uitdrukkingen. Ingegaan wordt ook op het gebruik van de vrije persoonlijk voornaamwoorden in comitatieve constructies. Daarnaast is er een serie clitische onderwerpsvoornaamwoorden die verwijzen naar de naamwoorden uit de specifieke naamwoordklassen.

Hoofdstuk 7 presenteert de verbindingsmarkeerder in constructies die bezit uitdrukken (genitief constructies). Deze proclitische markeerder is vastgehecht aan de bezitter en congrueert met de naamwoordklasse van het voorafgaande naamwoord dat refereert aan wat bezeten wordt. Ook andere semantische relaties dan strikte bezitsrelaties worden met behulp van deze constructie uitgedrukt.

Hoofdstuk 8 behandelt de demonstratieven. In de demonstratieven wordt een drievoudig deictisch onderscheid gemaakt in de ruimte: bij de spreker, bij de geadresseerde en op afstand van zowel spreker als geadresseerde. Deze demonstratieven zijn opgebouwd uit een (enkele of verdubbelde) congruentiemarkeerder, een voornaamwoordelijk basiselement en een deictisch element. Bij afwezigheid van het deictische element verwijst het voornaamwoordelijke basiselement (met congruentiemarkeerder) naar een eerder genoemde persoon of zaak (anaforische verwijzing).

Hoofdstuk 9 introduceert de ‘restrictor’. De restrictor is een proclitisch element dat vastgehecht is aan een bijvoeglijk naamwoord of een verbale zin. Aanhechting van de restrictor verandert het bijvoeglijk naamwoord of de verbale zin van predicatief in attributief met beperkende werking.

Hoofdstuk 10 gaat in op bijvoeglijke naamwoorden en telwoorden. In het Lumun vormen bijvoeglijke naamwoorden een zelfstandige woordklasse en het hoofdstuk behandelt overeenkomsten en

verschillen met zowel werkwoorden als naamwoorden. Van een aantal bijvoeglijk naamwoorden is duidelijk dat zij afkomstig zijn uit het werkwoordelijke dan wel het naamwoordelijke domein. Een aantal bijvoeglijke naamwoorden heeft een (gedeeltelijk) gereduplicateerde vorm. Deze (gedeeltelijke) reduplicatie drukt in een aantal gevallen geïntensiveerde betekenis uit, in enkele andere gevallen echter congrueert de gereduplicateerde vorm met meervoudige referentie van het hoofdwoord. Deze meervoudsmarkering, die beperkt is tot 'klein', 'groot' en 'lang', wordt ook in een aantal andere Kordofaanse talen aangetroffen. In het geval van 'groot' en vooral van 'klein' kan de niet-gereduplicateerde vorm echter ook gecombineerd worden met naamwoorden met meervoudige of niet-telbare referentie. In dat geval verschuiven zij naar het kwantitatieve domein en drukken 'veel' dan wel 'weinig, een beetje' uit.

In hoofdstuk 11 komen relatief zinnen aan de orde. Daarbij wordt onderscheid gemaakt tussen onderwerpsrelatiefzinnen en niet-onderwerpsrelatief-zinnen. Bij onderwerpsrelatief-zinnen fungeert het hoofd (of antecedent) van de relatief zin uit de matrix-zin als het onderwerp van de relatief zin. In niet-onderwerpsrelatief-zinnen heeft het hoofd (of antecedent) van de relatief zin uit de matrix zin een andere functie dan onderwerp in de relatiefzin. Het kan daar fungeren als object, maar ook als complement van een voorzetsel. Bij beide typen relatief zinnen wordt onderscheid gemaakt tussen restrictieve relatief zinnen (ingeleid door de restrictor) en niet-restrictieve relatief zinnen (zonder de restrictor). De syntactische constructie die gebruikt wordt in een niet-restrictieve niet-onderwerpsrelatief-zin kan ook zelf als hoofdzin-predicaat functioneren. Deze constructie maakt gebruik van een koppelwerkwoord en topicaliseert een andere constituent dan de agens. De constructie wordt typisch in het Engels vertaald met een passief werkwoord, maar anders dan in een passief constructie, wordt in deze constructie de agens niet naar de achtergrond geschoven.

Hoofdstuk 12 biedt een gedetailleerd overzicht van de complexe werkwoordsvervoeging van het Lumun. Werkwoorden in hun basisvorm vallen in drie toongroepen en eindigen ofwel in een

klinker ofwel in een **t**. Deze factoren zijn van invloed op de vervoeging, evenals de eerste en laatste klinker van het werkwoord (ongeacht of er nog wel of niet een **t** volgt). Werkwoorden kennen vijf basisvervoegingen voor wat betreft tijd/aspect, waarvan er vier in twee paren gegroepeerd kunnen worden met elk een variant die als onafhankelijk werkwoord wordt gebruikt en een variant die voorkomt in contexten waarin een afhankelijk werkwoord wordt geselecteerd. De zesde basisvervoeging is de gebiedende wijs. Met behulp van vormen van het werkwoord 'zijn' worden nadere tijd/aspect onderscheidingen uitgedrukt, terwijl een reeks van hulpwerkwoorden, al dan niet proclitisch op het hoofdwkwoord, zorgt voor de uitdrukking van modaliteiten en verdere aspectuele noties. Deze hulpwerkwoorden hebben in veel gevallen een beperktere inflectie dan de hoofdwkwoorden; in een aantal gevallen is een proces van grammaticalisatie goed waarneembaar. Dat geldt zeker voor de uitdrukking van ontkenning: een ontwikkeling van hulpwerkwoord naar grammaticaal morfeem tekent zich daar duidelijk af. Verder kunnen irrealis en richting ('komen' en 'gaan') op het werkwoord worden uitgedrukt.

Hoofdstuk 13 beschrijft diverse processen van formatie van pluractionele werkwoorden. Pluractionele werkwoorden geven uitdrukking aan verschillende soorten van meervoudigheid. Veel werkwoorden hebben een habituele interpretatie maar een pluractioneel werkwoord kan ook uitdrukking geven aan herhaling binnen een handeling of aan meervoudigheid door meervoudige deelnemers.

Hoofdstuk 14 behandelt werkwoordsderivatie. Het begint met een discussie over hoe een object gedefinieerd kan worden in het Lumun en beschrijft vervolgens de formatie van benefactieve, locatief-applicatieve, causatieve, passieve en wederkerige werkwoorden. Bij de causatieve werkwoorden wordt onderscheid gemaakt tussen directe en indirecte causatie. Passieve werkwoorden kunnen gevormd worden met behulp van drie verschillende achtervoegsels. Eén daarvan heeft zich naar alle waarschijnlijkheid ontwikkeld uit een mediale vorm. Voor de vorming van wederkerige werkwoorden zijn er twee verschillende achtervoegsels. Het hoofdstuk laat ook een

aantal voorbeelden zien van werkwoorden met combinaties van derivationele achtervoegsels.

Hoofdstuk 16 behandelt het naamwoord **cĭk** 'place(s)' en twee grammaticalisaties van dit naamwoord: het partikel **cĭk** dat 'vage referentie' aangeeft en het proclitische **cĭk-** dat gebruikt wordt voor een locatieve constituent. Het vage-referentie partikel kan gecombineerd worden met een werkwoord en met een bijvoeglijk naamwoord en heeft verschillende functies. Bij sommige transitieve werkwoorden markeert het de afwezigheid van een object, bij sommige werkwoorden die verplicht samengaan met een locatieve bepaling de afwezigheid van een locatieve bepaling. Het locatieve proclitische **cĭk-** is een pragmatische markeerder die een locatie nader preciseert of aangeeft dat iets juist op die bepaalde locatie plaats vindt. Gebruik van het locatieve proclitische **cĭk-** veronderstelt kennis van de locatie bij de hoorder.

Hoofdstuk 16 geeft een overzicht van prepositionele clitica. Vier daarvan hebben een locatieve betekenis ('in', 'aan/op' (contact makend), 'op' (element van hoogte) en 'bij'); de vijfde heeft een instrumentele, comitatieve of agentieve interpretatie ('met, door') en in combinatie met een locatieve constituent een ablatieve interpretatie ('uit'). Lumun plaatsnamen bevatten één van prepositionele clitica als vast element.

Hoofdstuk 17 gaat over bijwoorden. Het hoofdstuk gaat in op morfologische aspecten, waaronder partiële of gehele reduplicatie. Het hoofdstuk geeft verder een overzicht van bijwoorden van plaats, tijd en manier, waarbij aandacht wordt besteed aan deictische bijwoorden. Tussenwerpsels en enclitische communicatieve partikels die een zin of zinsdeel modificeren komen eveneens aan de orde.

Hoofdstuk 18 behandelt voegwoorden: 'en', 'indien/als', 'toen/wanneer/(om)dat', 'totdat' en 'zoals'. Ook gaat het hoofdstuk in op de complementeerder 'dat' en bespreekt het twee clitische voegwoorden: 'en, terwijl' en 'opdat'. In enkele van deze constructies kan een grenstoon worden toegepast aan het eind van het eerste zinsdeel. De voegwoorden gaan typisch samen met bepaalde

vervoegingen van werkwoorden; in bepaalde gevallen kan de lezing van het voegwoord daardoor worden bepaald.

Het onderwerp van hoofdstuk 19 is focusmarkering. Focus op het onderwerp komt eerst aan de orde, dan focus op andere zinsdelen dan het onderwerp. De markeerder van onderwerpsfocus heeft twee vormen, die in vrije variatie kunnen worden gebruikt. De ene vorm congrueert met het onderwerp dat in focus wordt gebracht, de andere vorm is een vaste vorm. Beide onderwerpsfocusmarkeerders zijn proclitisch en worden vastgehecht aan het (niet-afhankelijke) werkwoord of het bijvoeglijk naamwoord, waarbij zij de congruentiemarkeerder vervangen. Bij niet-onderwerpsfocus betreft het in focus gebrachte zinsdeel de linkerpositie in de zin, d.w.z. de positie die gewoonlijk wordt ingenomen door het onderwerp (de zinsvolgorde van het Lumun is onderwerp – werkwoord – object). Dit links gepositioneerde zinsdeel wordt gevolgd door een complementeerder die de rest van de zin introduceert. Deze complementeerder is waarschijnlijk hetzelfde woord als het woord dat functioneert als het voegwoord ‘toen/wanneer/(om)dat’.

Het laatste hoofdstuk (20) gaat in op vraagwoorden en vraagconstructies. Het behandelt de vraagwoorden ‘wie’, ‘wat’, ‘waarom’, ‘waar’, ‘wanneer’, ‘hoe’ en ‘hoe laat’. Verscheidene van deze vraagwoorden hebben een langere en een kortere vorm. De langere wordt gebruikt in neutrale vragen om informatie; ook in thetische vragen wordt de lange vorm toegepast. De korte vorm wordt niet altijd ingezet als echte vraag. Gebruik van de korte vorm kan uitdrukking zijn van een negatieve verwachting of veronderstelling. Het hoofdstuk behandelt als laatste enkele enclitische vraagpartikels. Deze partikels veranderen een bepalende zin in een vragende zin. Daarbij zijn er twee speciale partikels voor het opnieuw vragen van reeds verstrekte informatie.

In de bijlagen, tenslotte, worden vier oorspronkelijke gesproken teksten aangeboden. De teksten zijn getranscribeerd, geglost en voorzien van een Engelse vertaling. Als laatste is een woordenlijst van ca. 250 woorden bijgevoegd, waaronder de 100 woorden van de Leipzig-Jakarta lijst.

## Curriculum vitae

Heleen Smits was born in Den Helder, The Netherlands, on 30 June 1963. She graduated with an MA equivalent in Dutch Language and Literature at Leiden University in 1989. After that she worked as a documentalist for the Dutch section of the International Commission of Jurists (NJCM) in Leiden, while attending evening classes in Library and Information Science at Amsterdam University of Applied Sciences. From 1993 to 2007 she was employed by the Immigration and Naturalization Service of the Ministry of Justice in The Hague and Rijswijk. From 1999 she studied at Leiden University again, obtaining an MA in African Linguistics in 2007. Subsequently, she held a PhD position at LUCL (Leiden University Centre for Linguistics) until 2012. Since 2013 she has been working as an information specialist at the library of the African Studies Centre Leiden.