

A grammar of Lumun: a Kordofanian language of Sudan Smits, H.J.; Smits H.J.

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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 ε.

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 ϵ (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

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

¹ 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 | 12, 13 |
|------------------|----|---|-----------|
| | | (p , t , c) after a nasal (m , n , n) | |
| | 8 | insertion of a homorganic nasal (ŋ) | 12 |
| | | before k | |
| | 9 | insertion of nc between vowels | 13 |
| | 10 | addition of ɛnt before final or last | 12 |
| | | vowel ϵ | |
| reduplicated | 11 | partial reduplication: | |
| part | | $VC \Rightarrow VC-VC$, or $VCC \Rightarrow VCC-VCC$ | |
| initial VV (or | 12 | lengthening of the initial vowel and | 1, 4, 7, |
| V at surface) | | application of an all-low tone | 8, 10, 13 |
| + all-low | | pattern | |
| tones | | | |
| final or last | 13 | final or last vowel ε where 1, 2, 3, | |
| vowel ϵ | | counterpart has final or last ɔ | 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 \mathbf{t} , \mathbf{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

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allophone of /t/. Occasionally r geminates as 11. In such cases, it is likely that **r** has formerly been **r**. Geminated **r** is not attested: gemination of r results most often in 11, but sometimes in rr.

əttəkat cık 'swell (pl. subject participants)' otákat cik 'swell'

(also 12)

okâ 'be' **akka** 'habitually be' (also 12)

əmákət 'follow' ommakət 'habitually follow' (also 12)

onâ 'bring' onnâ 'habitually bring'

ɔrâ 'cultivate' orra 'habitually cultivate' (also 12)

əkérə 'trade' **3 skéttε** 'trade (pl. object participants)' (also 13)

ορότο 'eat (a paste substance)' **ορόι** 'habitually eat (a paste

substance)' (also 13)

aro cik 'sleep, spend night' alle cik 'habitually sleep, spend

night' (also 13)

orrátta 'be eaten (pl. subject participants)' orátta 'be eaten'

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

ire 'say' **ere** 'say, speak (a longer stretch of speech)'

Relationship types 2-4. Insertion of 11 between vowels (2); insertion of (V)tt before final or last vowel (3); insertion of vkk(w) before final or last vowel (4).

13 'die' **Ille** 'die (pl. subject participants)' (also 13) otíot 'send' **atillet** 'send (pl. object participants)' (also 13) **ənálle** 'urinate (pl. subject participants),

οηάεο 'urinate'

urinate repeatedly' (also 13)

anwot 'guard' anottet 'habitually guard' (also 13) onwô 'sing' **οηόττε** 'habitually sing' (also 13) okáko 'grind' **skákəttε** 'habitually grind' (also 13) **ɔkkɔ̂t** 'do, make' **akkéttet** 'habitually do, make' (also 13) okkô 'pass, reach' **akkéttε** 'habitually pass, reach' (also 13) **oppô** 'pass, appear' **appéttε** 'habitually pass, appear' (also 13) PLURACTIONALS 465

apo 'fall'apokk(w)o 'fall with several bumps'ao 'come'aokk(w)o 'come (pl. subject participants)'okéko 'be shaved'okeυkk(w)o 'habitually be shaved' (also 12)

In **3ko3kc** (last example above) **3kk(w)** replaces the second **k** of **3k6k** which is part of the Passive marker - **4ko** (shave') **3kc** 'shave') **3kc** (shave')

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

okéţa 'look'okéţaccε 'watch'oo 'cry'ooccε 'habitually cry'

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

In the reduplicated part the high vowels (\mathbf{i} , \mathbf{i} , \mathbf{u} , \mathbf{v}) are often copied, but not in all cases. The vowel \mathbf{a} is mostly copied, but can also be \mathbf{e} in reduplication. \mathbf{e} and \mathbf{a} can be copied, but can also appear as \mathbf{a} . The vowel \mathbf{a} is never copied. Instead, one often finds \mathbf{a} in the reduplicated part, but other vowels also appear.

 $VC \Rightarrow VC-VCC$

ıta 'cook' ıtatta 'habitually cook'

'enter' chizh' chizh' 'enter (pl. subject participants)' chizh' itie' itie with several windings, tie (pl.

object participants)'

ɔkəγɔ̂ 'bite' **ɔkə́γɛllɔ** 'bite repeatedly, eat (hard foods), bite

(pl. subject participants)'

γίκιε 'make not see' **γίλικιε** 'make not see (pl. (causee) object

participants)'

ιτε 'say (one utterance)' **skwárikət** 'recall instantly' **skwár<u>ətt</u>ıkət** 'remember, think'

οτέκο 'work' **οτέττεκο** 'habitually work'

In <u>rtatta</u> the vowel <u>r</u> corresponds to <u>a</u> in the reduplicated part. In <u>skátla</u> the H-tone occurs one mora to the left as compared to its non-Pluractional counterpart.

 $VNC \Rightarrow VNC-VCC$

unta 'fall and spread out (for example of water)'
untutta 'fall and spread out (pl. subj. participants, scattering)'
ontoma 'become dry' ontottoma 'habitually become dry'

 $VCC \Rightarrow VVC-VCC$

əppât 'become full' əpp<u>ə́pp</u>at 'become full (pl. subject

participants)'

Ittat 'become fat' **Itt<u>Itt</u>at** 'become fat (pl. subject participants)' **Ittt** 'escort' **IttItt** 'escort, help walk (requiring repeated

effort)'

accákat 'catch' **accíccakat** 'catch (pl. object participants,

typically thrown one by one and then caught

one by one)'

akkarɔ 'call' akk<u>əkk</u>arɔ 'call repeatedly, read' ɔccikkarɔ 'plant' ɔccikkikarɔ 'habitually plant' ımma 'see' ımmımma 'habitually see'

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

ikkə 'drink' ihabitually drink'

 $VC \Rightarrow VC-VC$ (far less frequent then $VC \Rightarrow VC-VCC$).

ɔt̞ɔ̂ 'pull'ɔt̪ot̞ɔ 'pull repeatedly'ɔkɛ̂ 'shave'ɔkஹ́ɛ 'habitually shave'ɔmópɛ 'steal'ɔmópopɛ 'habitually steal'

Relationship types 7-10. Insertion of a homorganic obstruent $(\mathbf{p}, \mathbf{t}, \mathbf{c})$ after nasal $(\mathbf{m}, \mathbf{n}, \mathbf{p})$ (7); insertion of a homorganic nasal $(\mathbf{\eta})$ before \mathbf{k} (8); Insertion of \mathbf{pc} between vowels (9); insertion of \mathbf{ent} before a final

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

Pluractional $\mathfrak{sym5}$ 'kill (pl. object participants)', which relates to non-Pluractional $\mathfrak{skkm5t}$ 'kill', may be a case of insertion of \mathfrak{n} before \mathfrak{kk} and subsequent deletion of \mathfrak{kk} . The pair is a rare example of presence versus absence of final \mathfrak{t} . Generally, final \mathfrak{t} is either present or absent in both.

σπόπε 'miss'σπροπε 'habitually miss' (also 12)σπο 'pour'σπίε 'pour repeatedly' (also 13)σπάπο 'say a name'σπαπίε 'enumerate, count' (also 12)σπο 'build'σπίε 'habitually build' (also 13)σκίπο 'defecate'σκίποε 'habitually defecate' (also 13)

akáτιat 'squeeze'apkaτιat 'squeeze repeatedly' (also 12)akánε 'show'apkanε 'show (pl. object participants), teach'

(also 12)

ɔkkwɔ̂t 'kill' **ɔnwɔ̂** 'kill (pl. object participants)'

int 'find' incet 'find (pl. object participants)' (also 13)

εο 'throw (a stone) at' **συνις** 'throw (plural stones) at' **εο** 'go' **σύνις** 'habitually go' (also 13)

εô 'go'

σίης 'habitually go' (also 13)

σίης 'go to'

σίης habitually go to'

υρ 'descend' υρεε 'habitually descend' (also 13)

Ime 'wash' **Imente** 'habitually wash'

omê 'tell, say' **omente** 'habitually tell, say' (also 12)

In the case of $\epsilon \hat{\mathbf{o}}$ 'go'/ \mathbf{o} ince 'always go' (insertion of \mathbf{nc} 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).

va 'rise'υυα 'habitually rise every'vo 'descend'υυο 'habitually descend'σmύμε 'steal'σmυμε 'habitually steal'σkâ 'be'σka 'habitually be'

эm \acute{o} **n** \acute{o} 'steal' also has a Pluractional with partial reduplication (relationship 11, see 6 and 11).

Relationship type 13. Final or last vowel ε where the counterpart has final or last \mathfrak{z} . Only one case is attested for which this is the only difference:

3kkwε̂ 'beat, hit repeatedly'

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

εê 'stab, blow'okónto 'blow repeatedly'okio 'cut'okéccε 'cut repeatedly'

app3 'take an amount' **app5<u>rε</u>** 'take an amount repeatedly' **εţêt** 'give' **ikket** 'give (pl. object participants)'

ommo 'take, pick up' ocómo 'take, pick up (pl. object participants)'

ιττε 'habitually dig, habitually collect'

Note that the Pluractional **acóma** 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 ⇒ VCC-VCC

Table 93 Pluractionals and Further Pluractionals

| | , | | |
|---|--|--|--|
| Pluractionals (non-habitual and | Further Pluractionals (habitual | | |
| habitual meaning) | meaning) | | |
| əppəppat 'become full (pl. | əppəppat (11), also: əppəppat | | |
| subj. participants)' | (12) / <u>oppoppoppat</u> (11, 12) | | |
| ɔppɔ́rε 'take an amount | ορρ<u>ό</u>ρρ ο τε (11) | | |
| repeatedly' | | | |
| ɔkόttε 'trade several items' | əkə́tt <u>ətt</u> ε (11) | | |
| ɔkák<u>ətt</u>ε 'habitually grind' | əkákətt <u>ətt</u> ε (11) | | |
| 1ttε 'habitually dig, habitually | rtt <u>rtt</u> ε (11) | | |
| collect | | | |
| əkwárəttikət 'remember, think' | okwárətt <u>ətt</u> ıkət (11), also: | | |
| | <u>o</u> kwarəttıkət (12) / | | |
| | <u>o</u> kwarətt <u>ətt</u> ıkət (11, 12) | | |
| anottet 'habitually guard' | aŋuttuttet (11) | | |
| ວ໗állɛ 'urinate (pl. subj. | ວກູລ໌ໄໄ <u>ອໄໄ</u> ຍ (11), also: <u>ວກູ</u> ລໄໄຍ (12) / | | |
| participants) | <u>ວ</u> ŋall <u>əll</u> ε (11, 12) | | |
| əţįllɛt 'send (pl. obj. | ɔt̪í̞lli̪llet (11), also: <u>ɔt̪i̞llet</u> (12) / | | |
| participants' | <u>ətillill</u> et (11, 12) | | |

| apokk(w)ə 'fall with several | арокк <u>окк(w)</u> э (11) |
|------------------------------|----------------------------|
| bumps' | |

In apukkukk(w)**o** 'habitually fall with several bumps' kkw is delabialized before u: apukk-ukk(w)-o.

In the following cases it is the pluractional ending **cce** that is reduplicated. The case of **3kécce** 'cut repeatedly' and **3kéccece**, **33keccece** 'habitually cut' could also be interpreted as involving reduplication of **ecc**.

σοσες 'habitually cry'σοσες σες (partial redup)σκόξασες 'watch'σκόξασες σες (partial redup)also: σκοξασες (12) and σκοξασες (partial redup, 12)

also: akecce (12), and **akeccece** (partial redup) (partial redup), 12)

Partial reduplication $VC \Rightarrow VC-VC$

 stóts 'pull repeatedly'
 stóts (11)

 also: stots (12) and stots (11, 12)

 skáke 'habitually shave'
 skákake (11)

also: $\mathbf{5k} \mathbf{5k} \mathbf{\epsilon}$ (12) and $\mathbf{5k} \mathbf{5k} \mathbf{5k} \mathbf{\epsilon}$ (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 \Rightarrow VC-VCC:

ıkket 'give (pl. object participants)' <u>ıkıkk</u>et **ɔkkwê** 'beat, hit repeatedly' **ɔkókkwe**

The same type of relationship was seen between **ikko** 'drink' and **ikikko** 'habitually drink'.

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

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

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| əmpənε 'habitually miss' | οmp<u>əpp</u>οnε (6) |
|---|-----------------------------|
| əŋantɛ 'enumerate, count' | əŋant <u>ətt</u> ε (6) |
| ετεπτε 'habitually speak' | erent <u>ətt</u> e (6) |
| υntε 'habitually build' | υnt<u>υtt</u>ε (6) |
| Incet 'find (pl. object participants)' | ιɲc<u>ιcc</u>εt (6) |
| ינסתט כי 'throw (plural stones) at' | ელეი <u>ალ</u> ა (6) |
| ɔŋkənε 'show (pl. obj. participants), teach' | əŋk <u>əkk</u> ənε (6) |

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

στίllikιε 'make not see (pl. object (causee) participants)' **στίllik<u>ikk</u>ιε** (6)

also: **əṛilliki**ɛ (12) / **əṛillik**<u>ıkk</u>ıɛ (6, 12)

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

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

```
ວກູໜໍ 'kill (pl. object participants)' ວກູ<u>ບtte</u> (3, 13)
also: ວກູບtt<u>utte</u> (3, 13, 11)
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Relationship type 1: gemination of \underline{\mathbf{t}}, \mathbf{k}, a nasal or rhotic: \mathbf{3ka} 'habitually be' \mathbf{3kka} (1) also: \mathbf{3kakka} (6) (VC \Rightarrow VC-VCC)
```

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

ere 'speak (a longer stretch of speech)' erente (10) also: erentette (10, 6)

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

οcόmɔ 'take, pick up (pl. object participants)' **οcό<u>ntε</u>** (suppletion) also: **οcόntυttε** (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 subactions 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.

'tie' ckinjing the rope several

times' (1), also: 'tie several things' (3)

3kkwô 'hit' **3kkwê** 'beat, hit repeatedly' (1)

atô 'pull' atóta 'pull repeatedly' (1)

εê 'stab, blow' **stab** repeatedly, blow repeatedly' (1)

una 'pour' **untε** 'pour repeatedly' (1) (for example water or tea,

often locational distribution)

akkarɔ 'call' akkəkkarɔ 'call repeatedly' (1), also: 'read' (2) akərɔ̂ 'bite' akhərlɔ 'bite repeatedly in a hard or crisp item' (1),

Skaperis the repeatedry in a nard of 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.

okśta 'look'okśtacce 'watch' (2)okwárikot 'recall instantly'okwárottikot 'remember, think' (2)ire 'say (one utterance)'ere 'speak (a longer stretch of speech)'(2)

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

οηάπο 'say a name' **οηαπτε** 'enumerate, count' (3) **οκόπε** 'show' **οηκόπε** 'show (pl. object participants), teach' (3)

ינוס 'throw at (typically in order to chase away)'

στυπεο 'throw at (pl. object participants, typically

stones, one by one)' (3)

ɔkkɔ̂t 'kill' **ɔŋwɔ̂** 'kill (pl. object participants)' (3)

atiliet 'send' atiliet 'send (pl. object participants: one by one or

group by group)' (3)

ɔkérɔ 'trade' **ɔkéttε** '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 in not strictly obligatory in these cases (this will be explained further below).

rttat 'become fat' **rttrttat** 'become fat (pl. subj. participants)' (4) **appât** 'become full' **appâppat** 'become full (pl. subj. participants)'

(4)

>ppêt 'get pregnant' **>ppéppεt** 'get pregnant (pl. subj. participants)'

(4)

13 'die' **13** 'die (pl. subj. participants)' (4)

οηάεο̃ 'urinate' **οηάllε** 'urinate once (pl. subj. participants)'

(4), also: 'urinate repeatedly' (1)

ao 'come' aukko, aukkwo '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', **akárɛlla**, 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 *cupû*-fruit:

m-p-ɔkərɛ́llɔ́.t cópô 1-c-bite.plur:compl fruit(k.o.)

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

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

wek w-a.ik w-a.kə́rɛllɔ́-n leg c-be:pr c-bite.plur:incompl-o1

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

akárella 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.

tok t-okərə.t ókul

dog C-bite:COMPL child

the dog has bitten the child (one bite)

luk l-əkərə.t úkul

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)

tok t-əkəréllá.t nókul

dog C-bite.PLUR:COMPL children

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

orek w-okərélló.r-ín

ants(sp.) C-bite.PLUR:COMPL-01

the <code>ɔṛɛk-ants</code> 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 (rkket) or the non-Pluractional (retet) 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.

Ikket-okatopuen-n-ortháppikgive.plur:imp-o3thingsdem-c-nearspallgive him all those things (one by one)

```
eț-ok arəpu 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':

```
p-atillét.é pókól kéccők
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)

```
p-atjat.é pókól kéccők
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 **onte** 'pour' must be used because the situation involves several actions of pouring due to locational distribution of the object (the sorghum):

```
anákka σ-kín t-oká.t cik a-kín υπτε míl and.that pers-3a c-be:compl vref conj.pers-3a pour.plur:depincomp sorghum n.ti i-aτύk... from in-bags
```

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

The subject in the sentence below is the mass noun **ŋocol** 'sauce'. Its distribution over several calabashes is expressed with a Pluractional verb (**ɔppə́ppat** 'become full').

```
ηυς η-ορρόρρας.ε I-lontərô 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.

```
o-kínappikt-oppopét.e/ o-kínappikt-oppét.ePERS-3AallC-get_pregnant.PLUR:COMPL / PERS-3AallC-get_pregnant:COMPLthey are all pregnant (each of them is pregnant) / they are all pregnant
```

```
a-kínt-anallê.t/ a-kínt-anaeâ.tPERS-3AC-urinate.PLUR:COMPL/ PERS-3AC-urinate:COMPLthey 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 13 'die' and 1llɛ 'die (PLUR)', and 3kkw3t 'kill' and 3ŋw3 'kill (PLUR)'.

pul p-1.áte person c-die:PST the person died

olw-Ille.káţepeoplec-die.PLUR:PSTthe people died

m-p-ɔkwɔt̞.ɛ́ t̪ɪk nɔ́-lura-lura ana l-ille.kát̞ɛ 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)

a-kín t-akkwat.é imítPERS-3A C-kill:COMPL goat
they have killed the goat

5-kín t-5ŋw5.t lịc5kPERS-3A C-kill.PLUR:COMPL goats
they have killed the goats

m-p-əŋwə.t əŋɛk n-t̪ǐk 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:

Ikkεttɔt 'give each other' < **Ikkεt** 'give (several items)' **Incεttɔt** 'find each other, meet each other' < **Incεt** '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 **ɔkiɔ**, whereas cutting with several cutting movements takes the Pluractional verb **ɔkéccɛ** (for example onions, or somebody's hair).

m-p-a.ık p-a.kécce ţûn 1-C-be:pr C-cut.plur:incompl onion

I am cutting the onions

However, cutting sorghum is expressed with the non-Pluractional **ɔkiɔ**, even though the event involves more actions of cutting since it is normally not just one sorghum stock that is cut. The Pluractional **ɔkécce** 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.ık p-á.kıə mîl 1-c-be:pr c-cut:incompl sorghum

I am cutting the sorghum

| m-p-a.ık | p-a.kécce | mįl | tə.pôn |
|-----------|---------------------|---------|------------------|
| 1-c-be:pr | C-C11T.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:

၁၁cɔ 'press oil' (done with a repeated movement) (long initial

vowel)

əllá cik 'sweep' (gemination)

υτυllɔ 'cough' (partial reduplication and gemination) **antettəre** 'roll sth.' (partial reduplication and gemination)

ottuotta 'swim' (partial reduplication) okáko 'grind' (partial reduplication)

accε 'lick' (ending in ccε)

Habitual Pluractionals

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

non-Pluractional Pluractional

σίπε 'go to' **σίητιπε** 'habitually go'

ιτε 'say (one utterance)' **ιτιllε** 'habitually say (one utterance)'

ipɔ 'dig, collect'okkôt 'do, make'ittɛ 'habitually dig, collect'okkôttet 'habitually do, make'

omê 'tell'omente 'habitually tell'oo 'cry'oocce 'habitually cry'omóne 'steal'omone 'habitually steal'

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

apokkwa 'fall with several bumps' **apokkokkwa** 'habitually fall'

Some examples with Pluractionals with habitual meaning follow here. Habitual Pluractionals can easily be combined with the adverb **eppineppin** 'always', but **eppineppin** 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 **5íncine** I-tipâ
CONJ.PERS-3A go_to.PLUR:DEPINCOMPL in-marriage
and they always went to her for marriage (fr. written story)

a-kín 5íncine i-tipá eppin-eppin

conj.pers-3a go_to.plur:depincompl in-marriage always-redup

and they always went to her for marriage

*a-kín **ɔ́incine** I-tipá 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:

5-pari p-an p-a.kkéttet núcul n-5-ín-taPERS-wife C-POSS2 C-do.PLUR:INCOMPL sauce C-of-what-QW

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

carı c-ərek c-əká.t cık a-nókol n-ɔ-kəmən k-ó-nɔ-cəruk CONJ-children c-some C-be:COMPL VREF **C-of-houses** C-of-on-opening n-oká.t cık a-n-ômune árəpu w-ɔ-rua c-be:compl 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 **eppineppin** 'always' does not always lead to the use of a Pluractional verb, as in the following example:

5-lótti p-ákkaró-k eppin-eppinPERS-Lotti C-call:INCOMPL-03 always-REDUP

Lotti 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 okérello:

5-kín t-á.ík t-á.kétello áppentínaPERS-3A C-be:PR C-bite.PLUR:INCOMPL groundnuts

they are eating groundnuts

with habitual akarello or akarellutta:

a-kínţ-â.kţ-â.kapɛlla /ţ-â.kapɛllottaáppɛnţínapers-3ac-bite.PLUR:INCOMPL /c-bite.PLUR:INCOMPL /groundnuts

they are always eating groundnuts

with non-habitual anwa:

p-sŋwb.t l**icók** pers-Kukku c-kill.plur:compl goats

Kukku has killed the goats

with habitual anotto or anottotta:

p-snôtte.t / p-snôttutte.t l**icók**PERS-Kukku C-kill.PLUR:COMPL / C-kill.PLUR:COMPL goats

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

with non-habitual **oppóppet**:

3-kín <u>t</u>-2pp pp έt.ε

PERS-3A C-get_pregnant.PLUR:COMPL

they are pregnant

with habitual oppoppet:

o-kakká p-oppéppet.e

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 **ips** '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.

nattattape n-1kk3.t cik a-íttitte aôn bird(sp.) c-sit:compl vref conj-(pro-)collect.plur:depincompl bees the nattattape-bird was always collecting honey (App. IV, 2)