



### 1.3 The areal-typological context and basic structure of West !Xoon

#### 1.3.1 The Non-Khoe type

+ Tuu family, including Taa, is part of a robust "language type" in the Kalahari Basin called Non-Khoe (as opposed to the other Khoe-(Kwadi) type) (cf. Güldemann and Vossen 2000)

> partly marked morphosyntactic profile, including features crucial for the GR system:

- S V (O OTHER) clause order
- most verbs with maximal valence of one non-S/A participant
- verb serialization (mostly root type, Foley and Van Valin 1984) and verb compounding
- prominent flagging by a special type of default marker for most postverbal participants outside the valence of the verb, aka "multipurpose oblique (MPO)" marker, and, depending on the language, a few more semantically dedicated adpositions

> strict syntactic template of basic clause (subscript n = possible multiple occurrence):

[SUBJECT - PREDICATE.OPERATOR<sub>n</sub> - ADVERB - VERB<sub>n</sub> - OBJECT - PREP + OBLIQUE<sub>n</sub>]

+ most extreme case described so far for Tsumkwe Ju|'hoan (Southeast Ju, Kx'a family)

with a single multi-participant construction: [VERB<sub>n</sub> - OBJECT - *kò* + OBLIQUE<sub>n</sub>]

(1) SBJ PO V OBJ [PREP OBLIQUE]

a. *ha kú //ohm-a !aihn kò g'ítí*  
3S IPFV [chop-VE<sub>x</sub> tree<sub>x</sub>] MPO forest

b. *ha kú //ohm-a g'ítí kò !aihn*  
3S IPFV chop-VE<sub>x</sub> forest MPO tree<sub>x</sub>

He was chopping the tree in the forest. (Dickens 2005: 39)

+ even relevant for ditransitives (rare secundative alignment due to strong animacy effect)

> no obvious ditransitive verbs including 'give' (see König and Heine 2010)

(2) SBJ V OBJ [PREP OBLIQUE]

*dà'áma jàn /'àn ha bá kò màrì*  
child good give 3S father MPO money

The good child gave his father money. (Dickens 2005: 40)

> MPO semantically very broad: most semantic roles except those typically expressed by the subject (agent, experiencer, force), viz. patients, all kinds of obliques and adverbials

> postverbal nominal encoding by position and flagging more sensitive to animacy (?and information structure) than to semantic roles (cf. Güldemann 2004)

#### 1.3.2 Extensive cross-reference as a Taa-specific feature

+ morphological system of cross-reference and agreement on a wide range of hosts like copula (3), adjectives (3), some numerals (4), **transitive verbs** (4), **all prepositions**, conjunctions etc.

(3) *ú qárú kù !xab-ù*  
2P parents.P4 COP:4 big.P-4

Your parents are big/old. (TWb110927-0106.008)

(4)

a. *ń sí n/à-í #hài #''ù-ì*  
1S IPFV see-1 dog.S1 one-1

I see one dog. (TWb090405-0101.001)

b. *ń sí n/à-àn mári #''ó-àn*  
1S IPFV see-2i > goat.S2i one-2i

I see one goat. (TWb090405-0101.005)

+ entails 5 speech-act-participant forms and 7 agreement classes within a complex gender system (Traill 1974, Güldemann 2000, Kießling 2008)

> prosody of a high/low tone contrast relevant for subtle distinctions within cross-reference system (as well as prepositional flagging, see §2.3)

> person and agreement class markers are grouped into two tone classes - Table 1

Person and agreement class		Agreement suffix for following object ('see-X > stone <sub>x</sub> ')	Anaphoric pronoun suffix ('[stone <sub>x</sub> ] see-IT')	Agreement on adjective ('stone <sub>x</sub> small-X')
Tone class I	1S	n/a	- <i>ńg</i> [- <i>ŋ</i> ]	~ <i>ńg</i>
	2S	n/a	- <i>á</i>	~ <i>à</i>
	1P	n/a	- <i>í</i>	~ <i>ì</i>
	2P	n/a	- <i>ú</i>	~ <i>ù</i>
	ACL 2i	- <i>àn</i> [- <i>à</i> ]	- <i>án</i>	~ <i>àn</i>
	ACL 3i	- <i>è</i>	- <i>é</i>	~ <i>è</i>
Tone class II	ACL 1(ii)	- <i>í</i>	- <i>ì</i>	~ <i>ì</i>
	ACL 2ii	- <i>án</i> [- <i>á</i> ]	- <i>àn</i>	~ <i>àn</i>
	ACL 3ii	n/a	- <i>è</i>	~ <i>è</i>
	ACL 4(ii)	n/a	- <i>ù</i>	~ <i>ù</i>
	ACL 5(ii)	n/a	- <i>ńg</i> [- <i>ŋ</i> ]	~ <i>ńg</i>

Table 1: Cross-reference marking and tone classes

## 2 GRs in West !Xoon

### 2.1 Encoding of GRs

(I) Word order

- basic distinction of preverbal vs. postverbal position
- secondary distinction of preverbal clause-initial vs. immediately preverbal
- secondary distinction of immediately postverbal vs. “late” postverbal (see below)

(5) **Clause-initial** **PO** **Pre-verbal** **V** **Post-verbal** **“Late” post-verbal**

è ã qháré glláqh-í n!áqì ì Ǫâ kê n//áhè  
 3ii PST noon.3i pull-1 hartebeest.S1 GEN:1 meat.S1 MPO:3i house.S3i  
 He pulled the meat of the hartebeest to the house at noon. (TWb080312-0304.041)

(II) Verbal cross-reference

- single slot in 2nd mora of bimoraic transitive verb lexemes within above system, cross-referencing the first postverbal NP
- > typologically unusual as only with non-S/A and not with S/A participant

(III) Flagging

- principal distinction between presence vs. absence of flagging (correlating with “later” postverbal vs. other GR positions)
- additional distinction within the set of inflected prepositions in the “later” postverbal slot which also must cross-reference their complement according to above system (see §2.2.4)

+ preliminary analysis of formal encoding results in a set of four basic GRs

GR	I Clause-initial	II Preverbal	III Postverbal	IV “Late” postverbal
Word order ( _ = GR slot)	_ (PO) (GRII) V	_ V	V _	V (GRIII) _
Verbal cross-reference	NO	NO	YES	NO
Flagging	NO	NO	NO	YES
Language-specific label	“SUBJECT”	“ADVERB”	“OBJECT”	“PREPOSITIONAL”

Table 2: Preliminary system of basic GRs in West !Xoon defined by formal encoding

- > appears to be already defined sufficiently in terms of a linear template (cf. (5) above)
- > all postverbal NPs are marked, either by verbal cross-reference or prepositional flagging

### 2.2 Four basic GRs

#### 2.2.1 I Subject (SBJ)

+ typologically unremarkable in largely conflating information-structural role of topic and semantic role of S/A

+ positionally defined, also in opposition to fronted initial NP for term focus and theticity

(6) *tuu k[u si qoye]* (as opposed to simple: *tuu si qoye*)

people.4 THET:4 IPFV dance.initiation:3

The people dance the initiation dance. [involving topic shift] (TWa040429-0101.057)

#### 2.2.2 II Adverb (ADV)

+ semantically restricted to expressions of manner, time and location

+ GR status only to the extent that filler of syntactic position is nominal

> not universal because of other typical fillers, e.g., true adverbs, locative deictics (nominal fillers identifiable by morphology and possible alternative postverbal occurrence)

(7) *ě kàhng sí Ǫàn*

3ii here IPFV sleep

He is sleeping here. (TWb090405-0111.016)

#### 2.2.3 III Object (OBJ)

+ triggered by inherently transitive verbs (as opposed to intransitives and other verb types)

> first in sequence of postverbal constituents before all prepositional NPs of GRIV

+ verbal cross-reference can be true agreement of a GRIII Object, as in (8)a., or anaphoric pronominalization without a GR, as in (8)b./c.

(8)

a. *#hàí sí sáy-è táà* Canonical agreement

dog.S1:DEFIPFV bite-3i<sub>x</sub> person.S3i<sub>x</sub>

The dog bites the person. (TWb090405-0104.004)

b. *Ǫáqè ní, #hàí kǎ sáy-é* Non-GR anaphoric O pronominalization

child.S3i<sub>x</sub> ID dog.S1 FUT bite-3i<sub>x</sub>

It's a child, a/the dog will bite it. (TWb090405-0104.014)

c. *#hàí sí sáy-è Ǫàà* Non-GR anaphoric POSSR pronominalization

dog.S1:DEF IPFV bite-3i<sub>x</sub> offspring.S3i<sub>y</sub>

The dog bites his<sub>x</sub> child<sub>y</sub>. (TWb090405-0104.007)

+ object encoding in verb serialization only relevant for last verb, non-final transitive verb occurs in default form (which varies unpredictably across different verb lexemes)

(9)

- a. *á sí sáy-í Óâi*  
2S IPFV bite-1 meat.S1  
You bite the meat (off). (TWb090405-0104.002)
- b. *á sí sáy qx'ú-í Óâi*  
2S IPFV bite take.off.S-1 meat.S1  
You bite the meat off. (TWb090405-0104.003)

## 2.2.4 IV Prepositional (PREP)

+ prepositionally flagged NPs represent in fact a set of GR (sub)types which is internally structured (see §2.3)

No.	Form	Label	Gloss
1	<i>/'M</i>	Comitative	COM
2	<i>kuM</i>	Similative	SIML
3	<i>n/M</i>	Dative	DAT
4	<i>sM</i>	External object	EXO
5	<i>kM</i>	Transitive	TRA
6	<i>kM</i>	Multi-purpose oblique	MPO

Table 3: List of prepositions

## 2.3 The prepositional complex

### 2.3.1 Six different prepositionals

#### 2.3.1.1 Comitative (COM)

+ semantically specific reference to association with a state-of-affairs in a wider sense  
> predominantly comitative, instrumental, etc.

- (10) *ě sí sái /'è n/áŋg*  
3ii IPFV come COM:3ii spouse.3i  
He comes with his wife. (TWb090405-0105.003)
- (11) *ě sí sáà /'ŋ tàhò kí g/áú-sí /âi kî*  
3ii IPFV go COM:1 path.S1 I.REL:1 straight-ADV stay F.REL:1  
She is going on ("with") the path which is straight. (TWb090405-0114.020)

+ also used for NP coordination causing occasional potential syntactic ambiguity between  
[[V OBJ] [COM NP]] vs. [V [NP COM NP]]

#### 2.3.1.2 Similative (SIML)

+ single inherently “prepositional” verb *náà* ‘appear, look like’ with obligatory similative:

- (12) *kùhmí n/àqhàn náà kùí /ómè*  
cattle.1:DEF be.fat appear SIML:1 eland.S1  
The cow is as fat as an eland. (TWb080325-0108.014)

+ otherwise triggered by specific semantic reference to similarity, manner etc.

- (13) *e sí tana (ka)kui<sup>1</sup> Peter*  
3ii IPFV talk SIML:3ii PN.3ii  
He speaks/talks like Peter.

#### 2.3.1.3 Dative (DAT)

+ single prepositional verb *tàqhm* ‘recover’ with obligatory dative:

- (14) *n/hhúún-àqà /òà sí qàqí ñ g/q'ám, xàtà é tàqhm n/éè*  
old.S3i-father.S3i recently IPFV be.sick.Sand be.weak but 3i recover DAT:3i  
The old man was sick and weak, but he is recovered. (TWb080411-0114.003)

+ otherwise tied to cooccurrence with other GRs and marks also productively benefactives, malefactives, and other goal-like participants

- object-dative combination as default for transfer expressions

> no obvious simple ditransitive verbs including a genuine ‘give’ (cf. Güldemann 2007)

- (15) *è ǎ //hóá /ú-í 'nÓâi n/áŋg*  
3ii PST NEG grab.S-1 wood.S1 DAT:1S  
He did not give the stick to me. [lit.: get the stick for/to him; get him the stick]  
(TWb090405-0116.009)

+ originates historically in a transitive verb *n/am* ‘give’ (Güldemann 2007)

#### 2.3.1.4 External object (EXO)

+ relevant for a closed class of so far less than 10 prepositional verbs

> NP semantically object-like:

- human: *nÓhhàí sM* ‘ask’ (+ for sth. *kM*), *ǎáí sM* ‘call’, *//'úún sM* ‘hate’
- non-human: *dzòhàn sM* ‘cook’, *sín//áru sM* ‘roast’, *sí+ánà sM* ‘divide’, *n/'úú sM* ‘close’
- alternating with TRA *kM*: *g/qòqbú-g/qòqbú sM* ‘shake’, dialectally *g/qx'áru sM* ‘scratch’

<sup>1</sup> The alternation between *kuM* and *kakuM* seems to be free and remains unclear.

+ controversial status as an independent GR because *sM*:

- originates in a transitive verb *sáM* 'get', as in (16), which is still transparent for speakers
- behaves occasionally as a phonetically long bimoraic verb, as in (17)

> alternatively: lexicalized verb compound with canonical GRIII Object (cf. (9)b.)

(16) *á ǎ sá-í péñn*

2SPST get-1 pen.S1

You have got a pen. (TWb080312-0201.096)

(17) *ń ||"úñ sá-è qóyè ði Ɔáí*

1S hate EXO/get-3i ostrich.S3i GEN:1 meat.S1

I hate/don't like the meat of the ostrich. (TWb090405-0107.006)

> predominant phonetic shortness as principal criterion for already viewing *sM* as a GR-defining preposition but realistically presumably on the threshold of grammaticalization

### 2.3.1.5 Transitive (TRA)

+ occurs with a second but larger class of prepositional verbs

(18) *ń sí n/ámí kè !"óyè*

1S IPFV throw TR:3i stone.S3i

I throw a stone. (TWb040519-0301.252)

+ also used productively for transitivity of intransitives, among them recurrent loans, e.g., Khoekhoe *!"ùrù* 'forget', *kírù* 'make', *||háu/||háu* 'collect'

(19) *ũ sí ||ámí kí !qàhè*

4 IPFV talk TRA:1 hunt.1

They talk about the hunt (TWb090405-0113.002)

+ also with clausal constituents after *#"àùn* 'must', *n!úni* 'want', *!àqmí* 'love', etc.

(20)

a. *ě !àqmí ká g#óán*

3ii love TRA:2i egg.P2i

She likes eggs. (TWb090405-0102.015)

b. *ě !àqmí ká ààn-sà*

3ii love TRA:2ii eat-NOM.2ii

She likes to eat. (TWb090405-0102.013)

c. *ě !àqmí kè sí á-àn g#óán kèè*

3ii love TRA:3ii IPFV eat-2iegg.S2i COMP

She likes to eat eggs. (TWb090405-0102.016)

### 2.3.1.6 Multi-purpose oblique (MPO)

+ as opposed to the areal trend, semantically more restricted to truly peripheral roles like, e.g., location (21), time (22), event quantity (23)

> restricted semantic overlap with other prepositions (instrument in (25) instead of COM)

(21) *!ómà-kè ||áí kè !Q'áè*

eland.P2ii-P be.much MPO:3i GN.3i

Elands are numerous in !Q'ae. (TWb080411-0111.010)

(22) *ě !á-í tróík sóè kì tshái kà'fki*

3ii stay.at -1 prison.S1 inside.S2ii MPO:1 day.S1 DEM.PROX:1

... He is now ("this day/today") in prison. (TWb080411-0108.003)

(23) *ě ǎ gqhóra kè n#úñ-sé*

3ii PST vomit MPO:3i two-ABSTR.3i

He has vomited two times. (TWb090405-0112.013)

### 2.3.2 Internal structuring

#### 2.3.2.1 Transitive vs. multi-purpose oblique

+ segmentally unitary pattern [VERB *kM* NP] diverse according to verb valence and resulting GR status of complement

	Verb + <i>kM</i> pattern	Semantics	Trans. example with <i>kM</i>	Intrans. example without <i>kM</i>
1	Lexicalized transitive	inherent object	<i>n/ámí kM</i> 'throw'	does not exist
2	Lexicalized alternation	± object	<i>!áú kM</i> 'leave'	<i>!áú</i> 'remain'
3	Productive alternation	possible object	<i>n#àqni kM</i> 'sneak up'	<i>n#àqni</i> 'sneak'
4	Ad-hoc MPO addition	no object		

Table 4: Verb patterns with *kM* flagging

+ subtle prosodic difference in tone class II between patterns 1-3 vs. 4

> crucial argument for distinguishing transitive *kM* and multi-purpose oblique *kM*

(24)

a. *Ɔqàqé sí xóá kí hòspítál*

child.S3i:DEF IPFV write TRA:1 hospital.S

The child is drawing the hospital. (TWb080829-0101.007)

b. *Ɔqàqé sí xóá kì hòspítál sóè*

child.S3i:DEF IPFV write MPO:1 hospital.S1 inside.S2ii

The child is drawing in the hospital. (TWb080829-0101.006)

(25) è ǎ /q'úñn kí táfèl kì !xáí kí dzqx'ànì kì  
 3iiPST wipe TRA:1 table.S1 MPO:1 clothing.S1 I.REL:1 be.wet F.REL:1  
 She wiped the table with a wet cloth. (TWb090405-0116.046)

Person and agreement class		Transitive (TRA)		Multi-purpose oblique (MPO)	
		Agreement	Anaphoric	Agreement	Anaphoric
Tone class I	1S	n/a	<i>k(á)ńg</i>	n/a	<i>k(á)ńg</i>
	2S	n/a	<i>k(á)á</i>	n/a	<i>k(á)á</i>
	1P	n/a	<i>k(í)í</i>	n/a	<i>k(í)í</i>
	2P	n/a	<i>k(ú)ú</i>	n/a	<i>k(ú)ú</i>
	ACL 2i	<i>ká</i> [kā]	<i>k(á)á(n)</i>	<i>ká</i> [kā]	<i>k(á)á(n)</i>
	ACL 3i	<i>kê</i> [kē]	<i>k(é)é</i>	<i>kê</i> [kē]	<i>k(é)é</i>
Tone class II	ACL 1(ii)	<i>kí</i>	<i>k(i)ì</i>	<i>kì</i>	<i>k(i)ì</i>
	ACL 2ii	<i>ká</i>	<i>k(a)à(n)</i>	<i>kà</i>	<i>k(a)à(n)</i>
	ACL 3ii	<i>(kí)</i>	<i>k(e)è</i>	<i>(kì)</i>	<i>k(e)è</i>
	ACL 4(ii)	<i>(kí)</i>	<i>k(u)ù</i>	<i>(kì)</i>	<i>k(u)ù</i>
	ACL 5(ii)	n/a	<i>k(a)ńg</i>	n/a	<i>k(a)ńg</i>

Table 5: Tonal differentiation between inflected TRA and MPO marker

+ TRA is best viewed as an earlier MPO constituent shifted to a verb argument, and thus aligned with normal OBJ and EXO in terms of a) semantic profile, b) tonal behavior, and c) syntactic position (see also §2.3.2.2)

### 2.3.2.2 Arguments vs. obliques

- + major distinction between possible and impossible cooccurrence of prepositionals
- > TRA, EXO and non-flagged OBJ are all in complementary distribution with each other, defining a unitary slot that correlates semantically with argument status
- + fixed order between “arguments” and other prepositional “obliques”: {OBJ, EXO, TRA} before {DAT, COM, SIML, MPO}

### 2.3.2.3 Relative order of obliques

- + oblique complex also with more articulated internal structure
- DAT before {COM, SIML, MPO}
- SIML flexible with respect to COM, MPO in elicitation
- MPO overall last in the prepositional complex
- > only attested exceptions in elicitation with SIML

> COM before MPO; apparently impossible inversion, although conceivable by European standards due to effect of animacy hierarchy

(26) ẽ sí sáà /"è Ọqáqè kè n/àhè !xàè  
 3iiIPFV go COM:3i child.S3i MPO:3i house.S3i big.S:3i  
 She goes with the child to the big house. (TWb090405-0105.007-11)

## 3 Summary

- + refined system of GRs which still has four basic GRs
- aligns somewhat unexpectedly two argument prepositionals (EXO, TRA) with the non-flagged OBJ as opposed to the four oblique prepositionals (DAT, COM, SIML, MPO)
- lexicalized GRs privileged over other slots, irrespective of the canonical syntactic sequence

GRI	GRII	GRIII	GRIV
Clause-	Pre-	Post-	“Late” post-
initial	verbal	verbal	verbal
[ SUBJECT	PO	ADVERB	V
		OBJECT	OBLIQUE ]
		OBJ <sub>LEX</sub>	SIML <sub>(+LEX)</sub>
		EXO <sub>LEX</sub>	DAT <sub>(+LEX)</sub> COM
		TRA <sub>+LEX</sub>	MPO

Figure 2: Revised system of four basic grammatical relations

- + West !Xoon as an “extreme” variant of the areal theme established by Non-Khoe
- > (retained) canonical Non-Khoe features:
  - highly fixed linear syntactic template (despite greater semantic specificity)
  - patient-like participants not conveyed by a unitary morphosyntactic strategy: non-flagged OBJ vs. prepositional EXO and TRA
  - assignment to linear template steered to a considerable extent by animacy (cf. COM-MPO restriction in §2.3.2.3), needs more systematic confirmation by discourse analysis
- > (innovative) non-canonical Non-Khoe features:
  - elaborate preposition set (particularly vis-à-vis opposite Ju extreme with single MPO)
  - semantic elaboration and specificity due to increased flagging inventory
  - important exceptions to the generality of the animacy hierarchy with DAT and SIML
  - stricter separation of argument vs. oblique in typologically expected direction

## Abbreviations

1/2/3/4/5 Agreement class or, if immediately followed by S/P, person; i/ii Tone class  
 A Agent (as primary transitive argument), ABSTR Abstract, ACL Agreement class, ADV Adverb, COM Comitative, COMP Complementizer, COP Copula, DAT Dative, DEF Definite, DC Dialect cluster, DEM Demonstrative, EXO External object, F.REL Final relative, FUT Future, GEN Genitive, GN Geographical name, ID Identificational, INF Infinitive, IPFV Imperfective, I.REL Initial relative, LEX Lexicalization, M Mora (vowel or nasal segment), MPO Multi-purpose oblique, NEG Negative, NOM Nominalization, NP Noun phrase, O object (as second transitive argument), OBJ Object (as GR), OBLIG Obligation, P Plural, PN Proper name, PO Predicate operator, POSSR Possessor, PREP Preposition, PROX Proximal, PST Past, S Singular, S subject (as single intransitive argument), SBJ subject (as GR), SIML Simulative, THET Theticity, TRA Transitive, V Verb

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