

TUPI STUDIES I

Edited by:

David Bendor-Samuel

A Publication of the
SUMMER INSTITUTE OF LINGUISTICS
of the
University of Oklahoma
Norman

1971

COCAMA CLAUSE TYPES

Norma Faust

0. Introduction
1. Principal Independent Clause Nuclei
2. Subordinate Independent Clause Nuclei
3. Clause Margins
4. Internal Structure of Intra-Clause Tagmeme

A key to the abbreviations and symbols used in this paper. (Numbers in parenthesis refer to the section number in which the abbreviation or symbol first appears.)

Aff	Affirmation tagmeme (3)
App	Appositive tagmeme (3)
As	Aspect tagmeme (1.1)
Asso	Association tagmeme (3)
C	Cause tagmeme (3)
Con	Concern tagmeme (3)
Dir	Direction tagmeme (3)
I	Identification tagmeme (1.3)
IM	Intention-movement tagmeme (3)
Ins	Instrumental tagmeme (3)
L	Location tagmeme (3)
M	Manner tagmeme (3)
Mo	Mode tagmeme (1.1)
N	Non-imperative clause nucleus (3)
NA	Nominative absolute tagmeme (3)
Nc	Nucleus core (1.1)
Neg	Negation tagmeme (3)
O	Object tagmeme (1.1)
P ₁	Predicate ₁ tagmeme (1.1)
P ₂	Predicate ₂ tagmeme (1.2)
PC	Principal ₂ clause (0)
PCA	Principal active clause type (0)
PCAN	Principal active clause nucleus (3)
PCI	Principal identification clause type (0)
PCIN	Principal identification clause nucleus (3)
PCS	Principal stative clause type (0)
PCSN	Principal stative clause nucleus (3)
Per	Perfective tagmeme (3)
Pur	Purpose tagmeme (3)
Q	Query tagmeme (3)
Qua	Quantity tagmeme (3)
R	Recipient tagmeme (1.1)

S	Subject tagmeme (1.1)
SC	Subordinate clause (0)
SCSN	Subordinate stative clause nucleus (3)
Sub	Subordinating tagmeme (2)
Sub ₁	Subordinating allotagma ₁ (2)
Sub ₂	Subordinating allotagma ₂ (2)
Sim	Similarity tagmeme (3)
Te	Tense tagmeme (1.1)
V	Vocative tagmeme (3)
-	Indicates phonological fusion between Cocama words (1.1)
∞	Alternates freely with (1.1)
...	Something precedes/something follows (narrative medial) (1.1)
'	Fusion of two levels (0)

0. The analysis of Cocama¹ syntax structure that is presented in this paper follows the theory of tagmemic analysis developed by Kenneth L. Pike in his Language in Relation to a Unified Theory of the Structure of Human Behavior.²

The theory presented in Pike's book involves the principle of the hierarchical structuring of all human behavior, including verbal behavior. This hierarchical structuring may be seen in the grammatical structure of the Cocama language. The minimum unit of this structure is the tagmeme, which is defined as a functional slot plus the filler of the slot. Both concepts, the slot type and its class of fillers, are necessary to the definition of a tagmeme in this theory. An example to show the slot-class correlation would be a subject slot filled by a substantive expression. The subject slot along with its filler, the substantive expression, manifests a subject tagmeme (see 4.2).

Tagmemes are here described in a "hierarchy of distributional matrices".³ There are four major levels of distributional matrices in the syntax structure of Cocama. The lowest major level consists of stem and affix tagmemes included in the word matrix; words in turn constitute tagmemes included in the phrase matrix; phrases in turn constitute tagmemes included in the clause matrix; clauses in turn constitute tagmemes included in the sentence matrix. When the focus is on the word matrix the tagmemes included on this level are termed intra-word tagmemes. When the focus changes to the phrase matrix the tagmemes included on this level are termed intra-phrase tagmemes. Included tagmemes

in the clause matrix are termed intra-clause tagmemes, and included tagmemes in the sentence matrix are termed intra-sentence tagmemes.

The grammatical hierarchy of Cocama language structure may be seen in that intra-word tagmemes pyramid to intra-phrase tagmemes, which in turn pyramid to intra-clause tagmemes, which in turn pyramid to intra-sentence tagmemes.

This paper focuses on the clause matrix and in particular on the nuclear contrasts of the clause matrix. These nuclear contrasts differentiate the six major non-imperative clause types of the independent sentences of Cocama.

The remaining three major matrices--the word, the phrase, and the sentence--are discussed only briefly to show the relationship of the nucleus of the clause and of the clause matrix to the other matrices and to the tagmemes included in these matrices.

There are two main sentence types in Cocama: independent and dependent sentences. Dependent sentences are dependent on other sentences in narrative. Independent sentences are not. Only the latter are treated in this paper, since sequence-dependent sentences contain clauses of types described for independent sentences (plus a sequence indicator), whereas response-dependent sentences may contain no clause.

Independent sentences contain one obligatory principal predicating nucleus and may also contain one optional subordinate predicating nucleus. The independent sentence tagmeme is manifested by one of two variants. The variants are differentiated by the order of arrangement of their intra-sentence tagmemes and occur in free variation. These variants are symbolized: [+PC' ±SC] ∅ [±SC +PC'], to be read, "obligatory principal clause tagmeme (PC) plus optional subordinate clause tagmeme (SC)". The symbol ' (in the formula PC') indicates that there is a fusion of levels in that PC' may occur either as the head tagmeme in an independent sentence matrix or may constitute the entire matrix. The principal clause may therefore constitute simultaneously an independent sentence matrix as well as a clause matrix. Henceforth in this paper fusion of two such levels will be indicated by the symbol '.

There are four main principal independent clause

types: (1) active (PCA), (2) stative (PCS), (3) identification (PCI), and (4) imperative which is subdivided into active imperative and stative imperative.

Active, stative, and identification clause types occur both in principal and subordinate varieties and are differentiated from each other by distinctions within the internal structure of their nuclear intra-clause tagmemes.

The imperative clause types are differentiated from the non-imperative by distinctions within the internal structure of their nuclear tagmemes--which we will not discuss here--as well as corresponding differences within the marginal intra-clause tagmemes. The imperative clause occurs as a sub-division of the class of principal clauses and not of the class of subordinate clauses. The imperative clause will not be treated further in this paper, which focuses on the nuclear contrasts of non-imperative clauses. Examples, however, of the imperative clause are: *cáni úri* 'come' (*cáni* 'imperative particle', *úri* 'stative verb, to come'), *úmi kái ái* 'look at it!' (*úmi* 'active verb, to see', *kái* 'imperative particle', *ái* 'third person singular substantive').

1. Principal Independent Clause Nuclei. The Cocama clause consists of an obligatory nucleus and an optional margin. The nucleus may be viewed as a matrix within the clause matrix and consists of an obligatory core plus optional modifying tagmemes. The nucleus of the principal non-imperative clause types will be discussed in Sections 1.1, 1.2, and 1.3; the nuclei of the subordinate clause types will be discussed in Section 2; and the margin, which is identical for both the principal and subordinate clause types, will be discussed in Section 3.

1.1. The core of the principal active clause nucleus consists of three obligatory intra-clause tagmemes: a subject tagmeme (S) manifested by a substantive expression, a predicate tagmeme (P_1) manifested by an active verb expression, and an object tagmeme (O) manifested by a substantive expression. The subject tagmeme precedes the predicate tagmeme. The object tagmeme may either precede or follow the subject-predicate sequence, and may be formularized as follows: $[+S +P_1 +O] \oslash [+O +S +P_1]$. The above formula represents minimum non-conditioned variants of the principal active clause nucleus. Other rare variants occur with the object tagmeme as optional; the minus options are

conditioned in that they occur only in narrative medial position. They do not occur narrative initially. They are formularized as follows: [...+S +P₁ ±O...] ∞ [...±O +S +P₁...].

The above are the minimal formulas for the principal active clause nucleus, as well as the minimal formulas for the principal active clause as a whole. The marginal tagmemes are optional and are included in the maximum formula for the clause (see 3).

The following examples illustrate minimum forms of the principal active clause nucleus:

+S		+P ₁		+O	
ipirawüra-púra		čikuaráta		púnu	'The dolphins follow us.'
dolphins		follow		us	
+O	+S	+P ₁			
yanamáta	ca-	kúpü			'I cultivate the grass.'
grass	I	cultivate			
+S	+P ₁				
umánu	ayúka				'The fever hit (her).'
fever	hits				

The theoretical maximum formula for the principal active clause nucleus is: +NC' ±As ±Te ±Mo ±R, to be read, "obligatory nucleus core (Nc) plus optional aspect tagmeme (As) plus optional tense tagmeme (Te) plus optional mode tagmeme (Mo) plus optional recipient tagmeme (R)".⁴ No occurrence of maximum structure has been found in the present data. The following examples, however, illustrate all the tagmemes symbolized in the maximum formula:

┌-----Nucleus-----┐					
┌-----Nc'-----┐					
+S	+P ₁	+O	±As	±Te	
úri	debiška	t- íma-	úkuá-	cúri	'He was in debt to
he	owes	my brother	habitual	far	my brother.'
			aspect	past	
				tense	

+O	+S	+P ₁		±Mo	
ta-kú my garden	t- I	iára want	yaúki- make	mía potential mode	'I would like to make my garden.'
+S	+P ₁	+O		±Te	±R
ái he	yúmi gives	y- it		úi immediate past tense	inú- cu them to
					'He gave it to them.'

1.2. The core of the stative clause nucleus consists of two obligatory intra-clause tagmemes: a subject tagmeme (S) manifested by a substantive expression and a predicate tagmeme (P₂) manifested by a stative verb₁, stative verb₂, or stative verb₃ expression (see 4.1).

The subject tagmeme may either precede or follow the predicate tagmeme, and may be formularized as follows: [+S +P₂] ∞ [+P₂ +S]. The above formula represents minimum non-conditioned variants of the principal stative clause nucleus, as well as the minimal formula for the principal stative clause as a whole.

The following examples illustrate minimum forms of the principal stative clause nucleus:

+S	+P ₂		
t- I	úcu go (stative verb ₂)		'I go.'
+P ₂		+S	
yumíra is angry (stative verb ₁)	t- ía my heart		'I am angry.'
+P ₂		+S	
tümúndü there is no (stative verb ₃)	kuríki money		'There is no money.'

The theoretical maximum formula for the principal stative clause nucleus is [+P₂ +S ±As ±Te ±Mo ±R] ∞ [+S +P₂ ±As ±Te ±Mo ±R] ∞ [+S² +P₂ ±R ±As ±Te ±Mo].⁵

clause as a whole.

The following examples illustrate minimum forms of the principal identification clause:

+I	+S		
wüpü-nán	ca-mümirakiramími		'I have only one little son.'
one only	my little son		

+S	+I		
úcu	inu- tía		'I am their aunt.'
I	their aunt		

The theoretical maximum formula for the principal identification clause nucleus is [+S ±As ±Te ±Mo +I] ∅ [+I +S ±Te] ∅ [+I +S ±R]⁶.

The following examples illustrate the expanded nucleus:

+I	+S	±Te	
ya ^ú pü	ya-pur-	úi	'He was there.'
there	he	immediate past tense	

+S		±Mo	+I
ya-putiakuarar-úra			ya-túa tîni 'Its chest is
its chest	subjunctive mode		it white white.'

+S	±Te	+I	
učimatan-	cúri	yúwa	'That which was taken out
that-which-	far	thorn	was a thorn.'
was-taken-	past		
out	tense		

+S	±As	+I	
na-kumic-úcu	ya-kuára		'Your speech will be in-
your speech aspect	it in		side of it (tape re-
of			order).'
going			

2. Subordinate Independent Clause Nuclei. Subordinate clauses are differentiated from principal clauses by virtue of their optional occurrence in independent sentences and the occurrence of a subordinating tagmeme within the nucleus of the clause. In the present data tense and aspect tagmemes are of rare occurrence in the subordinate clause. Mode and recipient tagmemes have not been found, although it is highly probably that they may potentially occur as optional tagmemes of the subordinate clause in the Cocama language structure.

The tense tagmeme occurs following the subordinating tagmeme in the subordinate stative clause. It has not as yet been found in the subordinate active or subordinate identification clause. The aspect tagmeme occurs following the predicate₂ tagmeme and preceding the subordinating tagmeme in the subordinate stative clause; it occurs following the subordinating tagmeme and the object in the active clause; it has not as yet been found in the subordinate identification clause.

The following formula shows the structure of the subordinate stative clause as found in the data to date:
 [+P₂ +S +Sub ±Te] ∞ [+S +P₂ ±As +Sub].

The following examples illustrate the subordinate stative clause:

+P ₂	+S	+Sub	±Te	
caipurári drunk	ya-puránu- they	íkua- because	íkua yester- day tense	'Because they were drunk yesterday.'
+S	+P ₂	+Sub		
ta-kuríki my money	ümütú- there is	ra if		'If I had the money.'
+S	+P ₂	±As	+Sub	
pünu we	iri- return	úcu- going aspect	púka when	'When we return.'

The following formula shows the structure of the subordinate identification clause as illustrated by the one

example that has been found in the present data:

+S +I +Sub

úñü üram- íkya 'Because you are good.'
 you good because

In the subordinate active clause the subordinating tagmeme follows the predicate₁ tagmeme. Following the predicate₁ tagmeme the subordinating₁ allotagma occurs preceding the object, and the subordinating₂ allotagma occurs following the object. The subordinate active clause is formularized as follows: [+O +S +P₁ +Sub₂] ∞ [+S +P₁ +O +Sub₂] ∞ [+S +P₁ +Sub₁ +O].

The following examples illustrate the subordinate active clause:

+O		+S	+P ₁	+Sub ₂	
ašún	umanuarinán	ucún	c-	ürucu	wíri
one-about-ready-to-die		I	I	took	although
					'Although I took one who was about ready to die.'

+S		+P ₁		+O	+Sub ₂	
ca-wihu-púra	ukúra		ca-	wíri		
my old-man	kept back		me	although		
						'Although my old man kept me back.'

+S	+P ₁	+Sub ₁	+O	
t-	amastáka	ráši	úra	
I	can do	if	it	
				'If I can do it.'

3. Clause Margins. Various marginal intra-clause tagmemes of modification may be attached to the nucleus of each of the six clause types described in detail in this paper (principal active, principal stative, principal identification, subordinate active, subordinate stative, and subordinate identification). Certain of these marginal tagmemes occur preceding or following the nucleus. The marginal intra-clause tagmemes that occur only preceding the nucleus of the clause include affirmation, negation, perfective, and query. Those that occur either preceding or following the nucleus include vocative, nominative absolute, intention movement, location, direction, association,

instrumental, cause, concern, purpose, quantity, time, manner, similarity, and appositive. The affirmation is always first; otherwise there is no fixed order. (There is some possibility, however, that degree of emphasis may affect the order of two intra-clause marginal tagmemes preceding the nucleus, or of two following the nucleus; the one closer to the nucleus may prove to be the one emphasized.)

In the data studied to date there are no further structural restrictions on the co-occurrence of the marginal tagmemes in the various principal and subordinate clause types.

There are, of course, some semantic restrictions such that the intention-movement marginal tagmeme occurs chiefly with the stative verb₂ *úcu* 'to go' as manifesting the predicate₂ tagmeme and with other words that express movement. Examples of sentences containing this tagmeme are:

+S +P₂ ±Intention Movement ±Location ±Appositive

y-	úcu	kamatatára		ahánga	orejanáka
he	goes	work	to	here	Orellana in

'He goes to work here in Orellana.'

±Intention Movement +S +P₁ +O ±Te ±Mo

mucanakatára	c-	ürúra	y-	ui-	mía
to-treat-	I	bring	her	immedi-	poten-
with-medicine				ate	tial
				past	mode
				tense	

'I brought her to be treated.'

The non-imperative clause formula is given below. Tagmemes listed in the formula as following the nucleus are from the group that may either precede or follow it (a fact which is indicated by the arrow); those before the nucleus are from the group which cannot follow the nucleus; free variation of order of these marginal tagmemes in reference to one another is as stated above, but not symbolized: ±affirmation (Aff) ±negation (Neg) ±query [+slot₁ +query] (Q) ±perfective (Per) +Nucleus (N) ±←similarity (Sim) ±←manner (M) ±←quantity (Qua) ±←purpose (Pur) ±←concern (Con) ±←cause (C) ±←instrumental (Ins)

±← association (Asso) ±←direction (Dir) ±←location (L)
 ±←intention movement (IM) ±←nominative absolute (NA)
 ±←appositive (App) ±←vocative (V).

Of these, it should be further noted that the query tagmeme is manifested by a clitic word stem which is phonologically dependent on the manifested form of the preceding tagmeme other than the affirmation. When no marginal tagmemes precede the nucleus, the query tagmeme occurs within the nucleus following the first nuclear tagmeme, and its manifested form is phonologically dependent upon the manifested form of the first nuclear tagmeme. When the affirmation tagmeme occurs in the clause (which, if present, always occurs as the first tagmeme) the query clitic can only follow the manifested form of the second occurring tagmeme, whatever it may be, and is phonologically dependent upon it.

The formula listed above is the theoretically maximum formula for the non-imperative clauses of the independent sentences. No more than three marginal tagmemes, however, have been found in any one clause. The following examples illustrate all of the tagmemes symbolized in the above formula:

	┌---PCSN---┐					
±L	±Q	+S	+P ₂			
maka- where	típa query	n- you	úcu go			'Where are you going?'
	┌-----PCAN-----┐					
+O	±Q	+S	+P ₁	±Te	±T	
mari- thing	típa query	n- you	igauki-úi do	immediate past tense	ikún today	'What did you do today?'
	┌-----PCIN'-----┐					
+S	±Q	+I				
mari- thing	típa query	ahánga here				'What is here?'

┌-----SCSN-----┐

±M		+S	+P ₂	+Sub	±Asso	±App
wúpü	yatíri	rana-caipura-	cún	ta-múki	kuyara-múki	
one	together	they are	drunk	for me with	garden with	owner

'In order for them all to get drunk with me, the owner of the garden.'

┌-----PCIN-----┐

±Aff	+I		±Q	+S	±R	
áha	aicüwanán	cačín-	dip-	ái	ya-	papa-
yes	little	loved	query	he	his	father
						cúpü
						recipient
						indicator

'Yes, is he just a little loved by his father?' (rhetorical question)

┌---PCSN---┐

±M	±App	+S	+P ₂	±NA	
čún	elvira	y-	umánu	aikuán	yía
almost	Elvira	she	die	sick	heart
					hurt

'Elvira almost died from a sick heart.'

┌----PCSN-----┐

±Per	±Neg	+S	+P ₂	
ái	tíma-purái	yakikuára	cači	'(Her) head does not
now	not	head	hurts	hurt anymore.'

┌----PCSN-----┐

+S	+P ₂	±Te	±IM	±Asso
t-	uri-	cúri	kamatatára	t- ima-
I	come	far	work to	my brother with
		past		
		tense		

'I came to work with my brother.'

┌-----PCAN-----┐

±Asso	+S	+P ₁	+O	±Dir
alkohor-múki	ya-	piáta	awaríndi	ini-cúi
alcohol with	he	asks	aguardiente	us from

'He asks us for aguardiente and alcohol.'

┌---PCSN---┐

±Neg	+S	+P ₂	±M	±V	
tíma	t-	amáska	kumíca	ašún	señoríta
not	I	can	talk	more	Señorita
					'I cannot talk any more, Senorita.'

┌-----PCAN---┐

±Sim		±Neg	+S	+P ₁	±Ins
ámua	medikúnu	yá	tíma	ya-	cawatáta
other doctors	like	not	he	bring	pütímá- pu
				back	tobacco by
				souls	means of

'He does not bring back souls by means of tobacco like other medicine men.'

┌-----PCSN-----┐

±Pur	±Asso	+S	+P ₂	±Te
mucanakamí-ra	ca-múna-	múki	c-	úri- úi
medical treatment	for my husband	with I	come	immediate past tense

'I came with my husband for medical treatment.'

┌-----PCAN-----┐

±C	+S	+P ₁	+O	±Te
ra-mima-íkuá	ra-	demandaška	ta-	cúri
his pet because	he	charge	me	far past tense

'Because of his pet he charged me.'

┌----PCAN-----┐					
±Con	+S	+P ₁	+O	±As	
rafael-ári	t-	ikuáta	n-	úcu	'I will tell you
Rafael about	I	advise	you	will	about Rafael.'

┌-----PCAN-----┐					
±T	+S	+P ₁	+O	±Te	±Qua
ikún	amuakána	ürúra	ipirapur-	úi	číta
today	others	bring	fish	immediate	many
				past	
				tense	

'Today the others brought many fish.'

4. Internal Structure of Intra-Clause Tagmemes. In this section some data on the internal structuring of the intra-clause tagmemes are to be presented. Each of the intra-clause tagmemes constitutes a phrase matrix. The breakdown of the phrase matrix will not be given in detail except where it is pertinent to the clause structure. The first part of this section (4.1-8) deals with the nuclear tagmemes; the remainder (Sections 4.9-27) deals with the marginal tagmemes.

4.1. The predicate tagmemes are manifested by verb expressions. They are distinct from other tagmemes in that the words manifesting the head tagmemes of the predicate phrase are made up of verb stems accompanied by verbal suffixes. There are two distinct predicate tagmemes, predicate₁ and predicate₂ as mentioned in 1.1 and 1.2.

The predicate₁ intra-clause tagmeme is manifested by an active verb expression. Within this expression the active verb word occurs as manifesting an obligatory intra-phrase head tagmeme. (Note that intra-clause and intra-phrase tagmemes are on different structural levels. When, however, the phrase is comprised of a single word, there is a fusion of levels--see the introduction--so that the one word simultaneously manifests both the intra-phrase head and the total intra-clause predicate.) The stative verb₁ word, stative verb₂ word, and certain particles and clitics occur as manifesting optional intra-phrase tagmemes which modify directly the intra-phrase head--in which case there

is no fusion of levels since the head verb itself does not manifest the total intra-clause predicate tagmeme. The meaning of the predicate₁ tagmeme is action directed toward a goal. The following examples illustrate the predicate₁ phrase:

+Head ±Modifying particle

tikíta	cápa	'to tie (it) soon'
tie	soon	

±Negative particle +Head

tíma	čipíta	'not to blame
not	blame	(someone)'

±Modifying stative verb₂ +Head

ucupurána	iku	'to know (it)
immediately	knows	immediately'

±Modifying stative verb₁ +Head

úpa	kúpü	'to finish culti-
finish	cultivate	vating (it)'

The predicate₂ intra-clause tagmeme is manifested by a stative verb expression. Within this tagmeme the stative verb word occurs as an obligatory intra-phrase head tagmeme and the stative verb₁, stative verb₂, and certain particles and clitics occur as optional intra-phrase tagmemes which modify this head.

Stative verbs are sub-divided into three classes: (1) stative verb₁ which manifests the predicate₂ and the manner intra-clause tagmemes; (2) stative verb₂ which manifests the predicate₂, manner, and aspect intra-clause tagmemes; and (3) stative verb₃ which manifests the predicate₂ tagmeme. The stative verb₃ class consists of only two members, ümütü 'there is' and tümündü 'there is no'.

The meaning of the predicate₂ tagmeme is state of action, being, or quality of a subject. For examples of the three classes of stative verb within the stative clause nucleus see Section 1.2.

The following examples illustrate the predicate₂ phrase:

±Modifying stative verb₂ +Head stative verb₂ ±Modifying
clitic

úri	úri	kat
come	come	again

'to come repeatedly'

±Modifying similarity particle +Head stative verb₁

yíá	kumic-
like that	talks

'(he) talks like that'

±Modifying negative particle +Head stative verb₁

tíma	amask-	'not to be
not	able	able'

±Modifying stative verb₁ +Head stative verb₁

yupúni	üratayar-	'begin to
begin	to put in order	organize'

4.2. The subject intra-clause tagmeme is manifested by a substantive expression. The head intra-phrase tagmeme of the subject phrase matrix is manifested by a substantive class of nouns and pronouns which, with some restrictions, occur with noun suffixes.

Within the subject intra-clause tagmeme a substantive occurs as manifesting an obligatory intra-phrase head tagmeme. The head intra-phrase tagmeme may be accompanied by optional modifying intra-phrase tagmemes manifested by substantive words, location expressions, stative verb₁ words, and certain modifying particles and clitics.

The subject tagmeme indicates: (1) the subject of the action directed toward a goal in an active clause, (2) the subject described as being in a state of action, being or quality in a stative clause, and (3) the subject identified in an identification clause.

The following examples illustrate the subject phrase:

±Modifying noun +Head noun ±Modifying location expression

ahán	medíko	puérto prádo-katín
this	doctor	Puerto Prado at

'the doctor from Puerto Prado'

±Modifying pronoun ±Modifying noun +Head noun

ahán	ikracún	čipitára	'this child's
this	child	bewitcher	bewitcher'

±Modifying noun +Head noun

wainakána	yapuračitáta	'the women's
women	dance maker	dance maker'

±Modifying noun +Head noun

úpi	áwa	'everyone'
all	man	

±Modifying stative verb₁ +Head noun

ipípu	yawára	'the dog
inside	dog	inside'

+Head noun ±Modifying clitic

kuyaramburá-	ya	'the owner of
owner-of-the-garden	reportative	the garden
		(it is said)'

4.3. The object intra-clause tagmeme is manifested by a substantive expression (see 4.2), or by the hesitation particle, ápu.⁷ The object tagmeme indicates the goal toward which the activity is directed in an active clause.

The following examples illustrate the object phrase:

±Modifying quantity noun +Head noun

mucaprika	waránga	čupáti	'three thousand
three	thousand	palm leaves	palm leaves'

±Modifying negative particle +Head noun

tíma	mári	'nothing'
no	thing	

(+P₂ +S) ±R

(cáku kuaráči) kupüwaraní- cu '(The sun is hot)
(hot sun) cultivators recipient for the cultivators.'

Identification clause (unique example).

(±Aff +I ±Q +S) ±R

(dha aicüwanán cačín-dip- dí) ya- papa- cúpü
(yes little only loved query he his father recipient
indicator

'(Yes, is he just a little loved) by his father.'

4.6. The aspect intra-clause tagmeme is manifested by a stative verb₂ word. The membership of the stative verb₂ class of words includes: (1) úcu 'to go'; (2) úri 'to come'; (3) úkuá 'to go about, habitual'; (4) yúti 'to be, temporal'; and (5) iára 'to desire'.

The aspect tagmeme indicates aspectual modification of the clause nucleus core. The following examples illustrate the aspect phrase:

(+S +P₁ +O) ±As

(pünu yumíta y-) úkuá '(We teach her)
(we teach her) habitual habitually.'

(+S +P₁ +O) ±As

(ta- tikíta cápa r-) úcu '(I) am going (to
(I tie soon it) to go tie it right away).'

(±L +S +P₂) ±As (±Te)

(ca-mümirakuñáka c- uwatat-) uri- (úí)
(my daughter at I visit to come (immediate
past
tense)

'(I) came (to visit my daughter).'

(+S) ±As (+I)

(na- kumic-) úcu (ya-kuára) '(Your speech) will
(your speech) to go (it in) (be inside of it).'

(+S +P₂) ±As (±Te)

(r- umánu-) iara- (cúri) ' (He) wanted (to
(he die) desire (far die).'
past
tense)

(±Per +S +P₁ +O) ±As (±Te)

(ai-púra ya- pápa ayukápa ini-) yuti- (úi)
(now his father hits us to be (immediate
past tense)

'(His father has already hit us.)'

4.7. The tense intra-clause tagmeme is manifested by a tense clitic. The membership of the tense class of clitics includes: (1) cúri *ø* curípü 'far past tense', (2) ikuá 'yesterday past tense', (3) úi 'immediate past tense', and (4) á 'future tense'. The following examples illustrate the tense phrase:

(±Aff ±IM +S +P₁ +O) ±Te

(áha mucanakatára c- ürúra y-) úi ' (Yes, I
(yes for treatment I bring her) immediate brought her to
past tense be treated.)'

(+S +P₁ +O) ±Te

(ínu úyu ya-) cúri ' (They ate it.)'
(they eat it far
past
tense)

(+S) ±Te (+I)

(ca-kiwira-) cúri (inu- pápa) ' (My brother) was
(my brother far (their father)
past
tense (their father).'

(+O +S +P₁) ±Te

(úpi mári inu- tá-) ikuá ' (They received
(everything they receive yesterday
past
tense everything) yes-
terday.'

(±M	+S		+P ₂)	±Te
(tutukári	ca-mümirakuñapuraná	ndi	yuriti kat-	á
(washing	my daughter		stays again	future
				tense

'(My daughter) will (remain to wash).'

4.8. The mode intra-clause tagmeme is manifested by a mode clitic. The membership of the modal class of clitics includes:⁹ *úra* ∅ *úránu* 'subjunctive mode', and *mía* 'potential mode'. The following examples illustrate the mode phrase:

(±Asso	+S	+P ₁	+O	±Te)	±Mo
(č- ia-	múki	c- üruráka	y-	ui-)	úra
(my heart with	I	bring	her	immediate	subjunctive
				past	mode
				tense)	

'(With deep feeling I brought her.)'

(±Per	±Q	+S	+P ₂)	±Mo	
(úcu-pura-táku	y-	umanu-)	mía		'(He) might (al-
(already perhaps	he	die)	potential		ready be dead).'
			mode		

4.9. Sections 4.1 through 4.8 have dealt with the nuclear intra-clause tagmemes; Section 4.9 through 4.27 deal with the marginal intra-clause tagmemes.

The affirmation intra-clause tagmeme is manifested solely by the affirmation particle *áha* 'yes', with no modifiers permitted:

±Aff (±IM	+S	+P ₁	+O	±Te)	
áha	(mucanakatára	c- ürura	y-	úi)	'Yes, (I
yes	(for treatment	I	bring	her	brought her
				immediate	to be
				past	treated).'
				tense)	

4.10. The negation intra-clause tagmeme is manifested by a negation expression. The negation expression consists of the obligatory negation particle *tíma* plus an optional modifying clitic. The following examples illustrate the

negation phrase:

±Neg (+S +P₁ +O +Sub)

tíma (na- čipíta ca-pur- íkuá) '(Because you did)
not (you pay me because) not (pay me).'

±Neg (±Per +S +P₂ ±L)

tíma-pur- (ái ra-cüt- úri ikiáka) '(He does) not
not emphatic (now he wants come here) (want to come
clitic here any more).'

4.11. The query intra-clause tagmeme is manifested by an unmodified question or pondering clitic. The membership of the query class of clitics includes: (1) típa~dípa, (2) táku~dáku, (3) nda, (4) ráku, (5) ta, (6) ra, and (7) ku. The variants as symbolized in numbers 1 and 2 are phonologically conditioned; dípa and dáku occur following the phoneme /n/, típa and táku occur elsewhere. The following examples illustrate the query phrase:

(±Dir) ±Q (+S +P₂)

(maka- cui-) típa (n- úri) '(Where do you
(where from) query (you come) come from)?'

(±L) ±Q (+S +P₂)

(maká-) nda (n- úcu) '(Where are you
(where) query (you go) going)?'

(+S) ±Q (+P₂)

(ra- cukuará-) ra (cáči) '(Does his body
(his body) query (hurt) hurt)?'

(±T) ±Q (+S +P₂ ±Te)

(maña-puká-) ta (ini-úri uri- kat- á) '(When will we
(when) query (we come come again fu- come again)?'
ture
tense

(+I) ±Q (+S)

(mári yawá-) ku (na- ritáma) '(What is your
(thing like) query (your city) city like)?'

(±Per)	±Q	(+S +P ₂	±Mo)	
(ucu-pura-) (already)	táku pondering	(y- umanu- (he die	míá) potential mode)	'(He might al- ready be dead.)' or '(Might he al- ready be dead)?'
(+S)	±Q	(+I)		
(mari-) (thing)	ráku query	(ahan-guára) (this in)		'(What is in this)?'

4.12. The perfective intra-clause tagmeme is manifested by a perfective expression, which consists of an obligatory perfective particle plus an optional modifying clitic. The membership of the perfective particle class includes úcu, ái, and áwü. Ucu and ái have been found with the emphatic clitic. Awü has not been found with a modifying clitic. The following examples illustrate the perfective phrase:

±Per	(+S +P ₂)			
úcu already	(y- umánu) (she die)			'(She is) al- ready (dead).'
(±Ins)	±Per	(+S +P ₂)		
(ya- pú) (it by means of)	ái already	(y- úra) (he well)		'(By means of it he is) now (well).'
±Per	(±M +S +P ₂	±Te)		
ai- already	púra emphatic clitic	(úra y- úra (well he well	cúri) far past tense)	'(He is) now (very well).'
±Per	(+S +P ₁	+O ±Mo)		
áwü already	(inu- mucanáka (they treat	ya- her	míá) potential mode)	'(They may) al- ready (have treated her).'

4.13. The similarity intra-clause tagmeme is manifested by a similarity expression, which consists of an obligatory substantive expression or stative verb₁ plus an obligatory similarity particle plus an optional modifying

clitic. The similarity class of particles includes two members: *yá* and *indíru*. The following examples illustrate the similarity phrase:

+Stative verb₁ +Similarity particle

<i>úra</i>	<i>yá</i>	'very well'
good	like	

+Substantive expression +Similarity particle

<i>tíma ámuá medikúnu</i>	<i>yá</i>	'not like other doctors'
not other doctors	like	

+Pronoun +Similarity particle ±Modifying clitic

<i>r-</i>	<i>íá</i>	<i>nán</i>	'just like it'
it	like	restrictive	

+Similarity particle +Substantive expression

<i>indíru</i>	<i>áwa itikán</i>	'like a man thrown down'
like	man one-thrown-down	

4.14. The manner intra-clause tagmeme is manifested by an obligatory stative verb₁ expression, stative verb₂ expression, manner particle, or stative clause nucleus core, plus an optional modifying clitic:

+Stative verb₁ ±Modifying clitic

<i>úra-</i>	<i>na</i>	'just good'
good	restrictive	

+Stative verb₂

<i>ucári</i>	'going'
--------------	---------

+Manner particle

<i>yanikáka</i>	'fortunately'
-----------------	---------------

+Stative clause nucleus core

+S +P₂

<i>tá</i>	<i>ucári</i>	'my going'
I	go	

4.15. The time intra-clause tagmeme is manifested by a time expression. The time expression may consist of an optional modifier plus an obligatory time particle; or it may consist of an obligatory stative verb₁ expression, active verb expression, substantive expression, or similarity expression, plus an obligatory time particle or clitic, plus an optional modifying clitic:

+Stative verb₁ +Time clitic

kanat-	ái		'when it is light'
is light	when		

±Modifying noun +Time particle

wúpü	ipíca		'the whole night'
one	night		

+Similarity +Time ±Modifying
expression clitic clitic

r- íá	pukátu-	nán	'when it was just like
it like	when	restrictive	that'

+Substantive +Time clitic

amuá	púka		'another time'
other	when		

+Active verb +Time particle

úyu	cakapíri		'after eating'
to eat	after		

4.16. The quantity intra-clause tagmeme is manifested by a substantive expression:

+Substantive

úpi	'all'
-----	-------

číta	'many'
------	--------

4.17. The purpose intra-clause tagmeme is manifested by a purpose expression, which consists of an obligatory substantive expression plus the obligatory purpose clitic ra ∞ rán:

+Substantive expression +Purpose clitic

t-úka cá	rán	'for my roof'
my roof	for	

4.18. The concern intra-clause tagmeme is manifested by a concern expression which consists of an obligatory stative verb₁ expression, optional object plus obligatory active verb, or substantive expression, plus an obligatory concern clitic:

+Stative verb₁ +Concern clitic

kuatjaranyar-	ári	'concerning writing'
writing	about	

±O +P₁ +Concern clitic

úri yumuyari-	ári	'concerning helping him'
him help	about	

+Substantive expression +Concern clitic

úpi mári	ári	'concerning everything'
all thing	about	

4.19. The cause intra-clause tagmeme is manifested by a cause expression, which consists of an obligatory substantive expression plus the obligatory cause clitic *íkua* plus an optional modifying clitic:

+Substantive expression +Cause clitic

ra- mím-	íkua	'because of his pet'
his pet	because	

+Substantive +Cause clitic ±Modifying clitic

r-	íkua	purára	'because of him'
him	because	emphatic	

4.20. The instrumental intra-clause tagmeme is manifested by an instrumental expression, which consists of an obligatory substantive expression, hesitation particle, or stative clause nucleus core, plus the obligatory instrumental clitic *pu oo púpū* plus an optional modifying clitic:

+Substantive expression +Instrumental clitic ±Modifying clitic

ya-pua- pupü- nán 'by means of
his hand by means of restrictive only his hands '

+Hesitation particle +Instrumental clitic

apú- pu 'by means of
it by means of it'

+Stative clause nucleus core +Instrumental clitic

+S

+P₂

y- fa cačí pu 'by means of
her heart pains by means of a pained heart'

4.21. The association intra-clause tagmeme is manifested by an association expression, which consists of an obligatory substantive expression plus an obligatory association clitic:

+Substantive expression +Association clitic

ca- mímira- múki 'with my son'
my son with

ya- mirikuá ndi 'with all his
his family with all family'

4.22. The direction intra-clause tagmeme is manifested by a direction expression which consists of an obligatory stative verb₁ expression, substantive expression, or location expression, plus an obligatory direction clitic plus an optional modifying clitic:

+Stative verb₁ +Direction clitic

amu- suíka 'from far away'
far away from

+Location particle +Direction clitic

máka cúi 'from where'
where from

+Substantive expression	+Direction clitic	±Modifying clitic	
iruáka kuarači- four days	cúi from	nán restrictive	'after four days'

4.23. The location intra-clause tagmeme is manifested by a location expression which consists of an obligatory substantive expression plus an obligatory location clitic plus an optional modifying clitic, or which consists of a location particle:

+Substantive expression	+Location clitic	±Modifying clitic	
kuín iwír- this tree	arí on	ya reportative	'on this tree, it is said'

+Modifying particle

yaúpü			'there'
-------	--	--	---------

+Substantive expression +Location clitic

c- uká- my house		ka to, toward	'to my house'
---------------------	--	------------------	---------------

4.24. The intention-movement intra-clause tagmeme is manifested by an intention-movement expression, which consists of an optional substantive plus an obligatory verb expression plus an obligatory intention-movement suffix:

+Stative verb₁ +IM suffix

ukiri- sleep	tára in order to		'in order to sleep'
-----------------	---------------------	--	---------------------

+Active verb +IM suffix

kamata- work	tára in order to		'in order to (go) to work'
-----------------	---------------------	--	-------------------------------

±Substantive +Active verb ±IM suffix

señóra lady	yumita- teach	tára in order to	'in order to teach the lady'
----------------	------------------	---------------------	---------------------------------

±Substantive +Stative verb₂ +IM suffix

t-	ucu	tára	'in order for me to
I	go	in order to	go'

4.25. The nominative absolute intra-clause tagmeme is manifested by a nominative absolute expression, which consists of an obligatory active clause nucleus core, stative clause nucleus, or identification clause nucleus core, plus the obligatory nominalizing clitic n:

+Active clause nucleus core +nominalizing clitic

+S	+P ₁		'(He died) by
bruhúnu	umanutá	n	a witch doc-
witch doctors	kill		tor killing.'

+Stative clause nucleus +nominalizing clitic

+P ₂	+S	±As	
ukuatári	íni-	ucú-	n
walking	we	go	
			'when we
			went walking'

+Identification nucleus core +nominalizing clitic

+I	+S		
aňangatína	kuřaračí	n	'when the
here	sun		sun is here'

4.26. The appositive intra-clause tagmeme is manifested by a substantive expression, locative expression, similarity expression, intention-movement expression, instrumental expression, and associative expression. Although other manifestations of the appositive tagmeme have not as yet been found, it seems highly probable that any expression which manifests any intra-clause tagmeme may potentially manifest the appositive tagmeme as well. See examples in Sec. 3.

4.27. The vocative intra-clause tagmeme is manifested by a sub-class of substantive words determined by their membership in the vocative tagmeme. The vocative tagmeme indicates vocative or direct address. See Sec. 3 for an example.

FOOTNOTES

¹Cocama, according to Tessman in the Handbook of South American Indians, 3.60, 687-89 (1948), is a language spoken by some 10,000 people living largely in Peru along the Amazon and some of its tributaries. McQuown in "Indigenous Languages of Latin America" American Anthropologist, 57. 522 (1955), lists Cocama as a member of the Upper Amazon Tupian Family.

For a description of the phonemes of Cocama see Faust and Pike, "The Cocama Sound System", Publicações Avulsas do Museu Nacional, Série Lingüística Especial, No. 1, Rio de Janeiro, 1959, pp. 10-55. [The present paper was written in 1958-59 in connection with a study program at the University of Michigan and has, unfortunately, remained unpublished until now. Its contribution to our knowledge of this geographically peripheral Tupian language compensates for a possible lack of relevancy to current theoretical questions.]

²Janua Linguarum, Series Major XXIV, Mouton & Co., The Hague, 1967.

³The concept of tagmemes-in-matrices used in this paper follows R. E. Longacre's modification of Pike's tagmemic theory. This concept is introduced and developed in Grammar Discovery Procedures, Janua Linguarum, Series Minor XXXIII, Mouton & Co., The Hague, 1964.

⁴One exception to this formula that has been found in the present data is the occurrence of the far past tense clitic cúri within the nucleus core following the subject or predicate tagmeme.

⁵One exception to this formula that has been found in the present data is the occurrence of the far past tense clitic cúri within the nucleus core following the subject tagmeme.

⁶Only one example has been found to date of the occurrence of the recipient tagmeme within the identification clause.

⁷The hesitation particle may occur as manifesting a modifying tagmeme in any phrase matrix and indicates hesitation of the speaker. It is not shown specifically in our regular formulas, although it can occasionally occur in slots where the optional presence of particles is indicated.

⁸One informant accepted only the variant cu in this

position; however other informants have given both variants in what appears to be free variation.

⁹A few others may have to be added to this class. There is a small number of clitics occurring too infrequently in our corpus to allow us to determine whether they belong in the modal or in the tense class.

