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Verb morphology of Cashibo

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Cinco borradores con el mismo título.

PROLOGO

Como las teorías lingüísticas y antropológicas están en constante estado de desarrollo y cambio, es una tarea interminable para los estudiosos el tratar de poner al día sus trabajos analíticos y teóricos. Y, como resultado, nunca se puede considerar que se ha agotado todas las posibilidades de estudio sobre una lengua y cultura, sean éstas las de un grupo indoeuropeo, sobre el cual existan miles de publicaciones, o las de un grupo etno-lingüístico de la Amazonía Peruana. Para tales estudios, las investigaciones de campo son indispensables, ya que pueden proveer los datos que sirven como una prueba empírica de las teorías. Y al fin y al cabo, los datos, más que las teorías, son de utilidad e interés perpetuos.

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O Cashibo verb forms consist of single words or verb phrases.

The single verbs weeks are first described as to nucleus and inflectional non-nuclei. The two types of verb phrases are next described: (1) verb nucleus plus clitic plus inflectional layer, large phonemics and (2) combination of two single-word verbs. The morphology proper is preceded by a summary of morphophonemic changes, which will be recognized in the Cashibo material of the paper.

1, Morphophon: There are several occurrences of phonologically definable

assimilation. s + \$\frac{1}{2} > s: 'is- + -'\frac{1}{2} > i'sq \frac{100\king}{100\king} a- + 'o' \\
or '\frac{1}{2} > o' or o'\frac{1}{2} \text{ and 'or'}\frac{1}{2} + a- > 'oo'or '\frac{1}{2} : a'\bar + \frac{1}{2} > \\
a'\bo'\frac{1}{2} \text{ (I, you)} \text{ ran yesterday, co'or + -a > co'or (I, you)} \\
\text{sat just now; 'i + A > 'ii: ni- + A'\frac{1}{2} \text{ you'}\text{ range walked} \\
\text{some days ago; k'' + oo'or '\k'' \text{ you'}\text{ hasal (homorganic} \\
\text{wou) heard yesterday; V + stop > V \text{ you'}\text{ hasal (homorganic} \\
\text{with stop) + stop; Word final V > V \text{ you'}\text{ ho o'a carry away,} \\
\text{bo'ampooni (I, you) carried away this morning, bo'anti to} \\
\text{carry away, bo'ank A [bo'ank A] carried away, bo'a \text{ bo'an} \\
\text{carry away! V + m \text{ man > (V \text{ you'}) (m \text{ mon}); i'so + -ma i'soma \text{ or i'soma not seeing; 'V + V > '\text{ yo: 'k''a- + -asi > 'k''aa\frac{1}{2} \text{ (h6)} \\
\text{went; V + ?V > VV: 'tA - + ?i'ko - > 'tAiko - \text{ hug around the neck.} \\
\text{The following process occurs with verbs only: V + (b \text{ mr) } \text{ } > \\
\text{ vbo- yo': 'k''a- + -ro- > 'k'''aro- go up (stream), 'k''''a- + 1bo- > \\
\text{ k'''a'bo- go down (stream).} \end{around the neck} \\
\text{ k'''a'bo- go down (stream).} \end{around the neck} \\
\text{ solution of the

- 2 Single-word verb forms are composed of a nucleus which may contain one of two roots, and the non-nucleus which contains of inflection suffixes.
 - 2.1 Nuclei containing one verb root are of three classes: transitive, intransitive, and transitive-or-intransitive.

The transitive roots are monosyllabic of types V, VC, CV:

2- make, 'is- see, ko- eat fruit; disyllabic with the first syllable stressed, of types 'V.CV, 'VC.CV, 'CV.V, 'GV.CV,

'CV.CVC, 'CVC.CV: 'i.na- row (boat), 'an.ka- finish, 'ma.asweep, '?a.ro- cook, 'mas.ko- cut (hair) short; disyllabic with the second syllable stressed, of types V:CV, CV.'V, CV.'VC,

CV.'CV, CV.'CVC: A.'ci- jerk out, casa- mash, ka.'is- choose, bo.'ka- tie, ba.'tas- cover a hole. Basically disyllabic roots with stress on the second syllable have alternant forms in which the stress is shifted to the first syllable: **

**A.'ci- **Aci- **

**Aci- **

**Aci- **

**CA.'A- **

**CA.'A- **

**CAA
**

**mach*, etc.

The intransitive stems correspond in form to the transitive roots: monosyllabics of types V, CV, CVC: i-cry, kwa-go, nis-be angry; disyllabic with the first syllable stressed, of types 'CV.CV: 'nasi-bathe disyllabic with the second syllable stressed (with allomorphs in which the stress occurs on the first syllable) of types V.'V, V.'CV, CV.'V, CVC!CV: o'i-breathe, a'ba-run, c2'2-sit, pas.'ko-get well.

The transitive-or-intransitive roots are of five groups, determined as follows: (1) by position of stress: transitive 'S.S > intransitive S.'S, as in 'ino- pass (something) i'ho-pass, 'mano-forget (something) ma'no-forget, 'ona-hide something) > o'na-hide (oneself), (2) by position of stress and by nasalization: intransitive 'S.S > transitive S.'S, as in

'boko- pile up > bo'ko- pile up(something), 'soa- scratch > so'a- scratch (someone else), (3) by nasalization:
intransitive S.'S > transitive S.'S, as in ci'ki- go out
> ci'ki- set free, na'na- dive, sink > na'na sink (something)
ra'ka- lie down > ra'ka lay (something) down (4) by nasalization
and suffix -a-: intransitive S.'S > transitive S.'S + a-, as in
sa'no- be dry (of natural juice or sap) sa'noa- dry (leaves,
etc.), to'to- be dry (after becoming wet) to'toa- dry (soil,
etc.), (5) by stem formatives suffixed to neutral roots, -kiintransitive and -ka- transitive: 'kaki- call loudly > 'kakacall (someone) loudly, ma'biski- cut one's hand > ta'biskabehead (someone).

Nuclei containing two roots are formed from a verb root to which is prefixed the first syllable of a noun or attributive: ma->(from mas'ka head) + 'nAa- tie > 'manAatie one's head, ba- (from babose elbow) - 'taska hi

\$A- (from 'šAki corn) + 'mAA- touch > 'šAmAA- shell corn,
ma- (from ma'hami high) + 'nie stand 'mani- stand on top.

A few verb nuclei of three or more syllables have been observed which cannot yet be broken down into constituents. From the patterns revealed by this analysis these must be combinations of roots rather than single-root nuclei: ba'ka'šaro- tie in knots, ?a'tišanki- sneeze.

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3.2 Manayumiei.

The non-nuclei consist of suffixes. Two internal distribution classes are formed by suffixation: independent verb forms and dependent verb forms.

2.2.1 Independent verb forms contain three orders of suffixes. Suffixes of order 1 are stem formatives $(-t-n-1)^4-k-.$ occurs with alternant forms of disyllabic stems in which stress is shifted from the second to the first syllable (section 2.1), and with certain monosyllabic stems. -t- follows all purely oral stem vowels of the disyllabic stems and a few monosyllabic stems, as in a'ba- > 'aba+ + + + + + + - > 'abat- run, 'ko- + -t- > 'kot- eat fruit; -n- follows all nasalized vowels of the disyllabic stems, and of monosyllabic roots: o'i-> 'oin- breathe,

Na-> kwan- go; -k- occurs with basic roots to form the remote run and account first and account the de person against third person tenses of the rank continuative stem: a'ba > a'bak-

Suffixes of order 2 denote tense of the verb.

i present tense,-i with 1st and 2nd persons, = 1 with 3rd person, follow present tensers and formatives theren ~ 0 : where prepart, and otherwise they fullow the root immediately: 'isi (I, you) see, 'isi (he) sees, linai (I, you) row, 'naní (he) places. Suffixes -i also follow stem formative -k- of the remote continuative: kWA'Anki (I, you) used to like, a'bakí (he) used to run.

-ia present progressive, used in 3rd person only, is suffixed to present tense stema: 'kotia (he) is eating fruit, fonding:

'k abotia (he) is going down (stream).

-a immediate past, with 1st, 2nd and 3rd persons, suffixed to basic root forms: 'isa (<u>I</u>, <u>You</u>) <u>saw</u>, 'isašį́ (<u>he</u>) <u>saw</u>, ?o'naa (I, you) learned, ?o'naašį́ (<u>he</u>) <u>learned</u>.

-'# past-of-yesterday, with 1st, 2nd and 3rd persons, suffixed to basic root forms: pi'pp (I, you) ate yesterday, pi'pp (he) ate yesterday.

-A'šąą time between yesterday and long ago, with 1st, suffixed to basic rest forms

2nd and 3rd persons: 'isašąa (I, you) saw some days ago,

'isa'šąašį (he) saw some days ago.

-aka remote past, with 1st, 2nd and 3rd persons,

suffixed to basic root forms: o'boaka (I, you) came down

long ago, 'baskasi (he) brought long ago.

-t O imperative (-t follow, all racto ending with analycounts,

but all other racto): 'at delit)! 'kwa go!

Suffixes of order 3 denote person of the subject are forms

-0, -si and -sa. They follow suffixes -a, -'22, -a'saa and

-aka of order 2.

-0 denotes 1st and 2nd persons: a'baa $(\underline{I}, \underline{you})$ ran, 'bAakA $(\underline{I}, \underline{you})$ brought long ago.

-ší denotes 3rd person: '?aaknší (he) did long ago

-ṣa Its special significance is not clear. It is used with the 3rd person only, replacing suffix -ṣi: a'ba ^'ṣaaṣa (he) was running some days ago, ko'ɔ̣ɔ̞ṣa (he) was eating fruit yesterday.

Suffixes of order | are ti infinitive formative, suffixed to basis section in many, larger to cook, and the time element morphomes and are time element morphomes.

the infinitive formative, and follows 0 of order 1: ba'nati to hurry, '?aroti to cook.

-ka completive, may follow 0, 'oo, a'šaa, *-ak: 'kika said, told, bi' paka obtained yesterday, 'k aasaanka gone some days ago

-s or so incompletive. -s is used when the principal verb is transitive, -so when the principal verb is transitive; time morpheme -a always appears with allomorph -s if no other

'piisaas eating some days ago, 'piakas eating long ago.

'pinu st will kaus eating.

3 Verb phrases are of two types: (1) those which are composed of a verb root or roots, followed by one or more clitic, to the last of which are suffixed the inflectional elements, (2) those which are composed of two inflected verb words.

3.1 Verb phrases of type 1 include one or more clitics.
Clitics which occur only with verbs are:

-ka- reflexive: 'mania-ka- arrange oneself, 'mana-kahit oneself;

-ro- 'up': 'k a ro- go up (stream), 'biro- pick up;

-*be-co-pa- down (-'be- with transitive roots, -pawith intransitive roots): kwalbe- go down (stream), be'ampa- carry away down;

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in.

-mi- causative:?@inaami- teach (cause to learn),
'is-mi-show (cause to see)

-'kasma- -kas'ma- non-ability:'kWa-ro-'kasma- not able to go up (stream),'kWa-kas'ma- not able to hear;

-so- benefactive: '?a-so- do for (someone),

bo'a-so- carry away for (someone);

-ta'ka- repetitive: 'is-ta'ka- see again, '?a-son-ta'kado again for;

-a'na- reciprocal: 'man-a'na- hit each other,
'noi-a'na- be friends;

-ki'a- -bi'a- while going (-ki'a- with intransitive roots,-bi'a- with transitive roots): a'ba-ki'a- go running,
'? -bi'a- leave behind (go leaving);

- kWa'ci- ∞-bA'ci+ while coming, come from (-kWa'ci-with intransitive roots, -bA'ci-with transitive roots):

'kWai-kWa'ci- come from playing, 'pi-bA'ci- come from eating;

- ba'i- continuative a long time during the day a'ba-ba'i- run much, 'ka-ba'i- say much;

-po'o-~-po- this morning (-po'o- with stems of more than than one syllable, -po- with stems of one syllable) the voule of which is a ba-ki am-po'o- went running this morning, kwa am-po-

-ka- subjective, the others (of a specified group)
a'ba- ki'am-po'o-ka- the others to have gone running this

morning, 'čoka-ka- the others to be washing;

-ki'i- ~-ki- help (-ki'i- with stems of more than one syllable, -ki- with stems of one syllable): **Coka-ki'i- help to walk;

-'nA- at night, during the night: '?a-nA- do at night,

bA'sAna-nA- smoke (meat) during the night;

-no- with

am, are, is going to sit, ba'tas-no-so covering afterwards;

-ta- significance undetermined (used in imperative verb forms, and before suffixes -kaš o -kašo in dependent verb forms): kwan-ta go!, pi-tankašo having eaten

Clitics which occur with verbs and with other major distribution classes are:

-idsi- just, only: co'o-idsi- be just sitting
'?ee-idsi- devour (just swallowing);

-'ira- much, very well: ?o'na-ira- know very well,
a'ba-ira- run well; pi-ira- eat unell

-ra'co- diminutive: 'max-ra'co- sweep a little, a'ba-ra-co- run a little;

-'ci- potential, also can (used only with suffix -a):
a'ba-'ci- also can run, ?a-'ci- also can do;

-pa'i- -pa- <u>first</u> (-pa'i- with stems of more than one syllable, -pa- chiefly, but not exclusively, with stems of one syllable): ca's-pa'i- <u>sit first</u>, 'pi-pa- ea eat <u>first</u>.

Verb phrases hype I may resent in independent or dependent or dependent week forms, according to influence sufficient sufficient sufficient.

3.2 Verb phrases of type 2 contain two inflected verb on the first wand may be substituted by a Type 1 phrase.

words, The first vnaming the action and the second denoting the person. The first verb word may have present tense, infinitive, completive or incompletive inflectional suffixation (with possible clitics -ma or -bi). The second verb word is some form of the verb '?a- do or '?i- be.

There are two forms of the verb to be in the present tense, '?a- and '?i-, probably indicating state and location respectively; the 3rd person formed from the stem '?a- is '?ika rather than *'?af.

Verb phrases with present tense forms are as follows:

Present tense verb + be (?i- form) indicates progressive

action; the time element is denoted in the verb be: 'parani
'?ii (I, you) am, are fooling (someone), 'abati ?i'; ií (he)

was running yesterday

(8:- 6 10)

Negative present tense verb + be indicates negative past tense in the active voice; the time element is denoted

in the verb be; 'abati-ma ?ia (I, you) did not run just now, 'abati-ma '?iiṣ̃aa (I, you) did not run some days ago, 'abati-ma '?iakaṣ́i (he) did not run long ago.

Verb phrases with infinitive forms are as follows:

Infinitive + be indicates either potentiality or future

time. The time element is denoted in the verb be. Negative

potentiality is indicated in the infinitive. ra'ankati ?ai

(I, you) can launch, 'piti ?i'>

(I, you) can launch, 'piti ?i'>

(I, you) shall, will say, 'kwanti ?ika (he) will

go.

Infinitive followed by clitic -bi + verb be (?i- form) indicates obligation, necessity, or wish; the time element is denoted in the verb be: pas'ko'ti-bi kana'?ii may he be better soon, 'k"anti-'bi kana '?iaka (i should have gone long ago.

Verb phrases with completive forms are as follows:

Completive form + be forms passive verb phrases. The

present and immediate past elements are indicated in the

verb be. The time elements of yesterday, some days ago, and remote past are indicated in the completive form.

?o'nammka?ai (I, you) am, are taught, mapoka '?iasí (it)
was just covered, bi'panka ?ika (it) was obtained yesterday.

180- form)

Negativized completive + present tense of <u>be</u> forms the negative past tense in the active voice; the time element is denoted in the completive form: 'ankAkA-ma ?ai (I, you) did not finish, a'b>>>nkA-ma ?ikA (he) did not run yesterday.

Verb phrases with incompletive forms are as follows:

Negativized incompletive forms + imperative forms of be and or

do result in negative imperative verb phrases: -\$ + be forms

the intransitive phrase, -\$0 + do forms the transitive phrase.

'nasi'as-ma ka '?it do not bathe, '?aro'so-ma ka '?at do not

cook.

Verb phrases with -no form are as follows: -no → imperative of do forms list person plural imperative: 'barinon ka '?at let let us look for, 'nasi*no ka '?at let us bathe.

Negativized -no + 3rd person present tense of be results in a deferential command: 'baka-ino-ma ka '?ií please open, ?i'na-no-ma ka '?ií please give.

yard was borning

VERB MORPHOLOGY OF CASHIBO (tentative description)

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VERB MORPHOLOGY OF CASHIBOT (tontaline A Shell) Summer Institute of Linguistics

- 1. Morphophonemics
- 2. Criteria of verb form class
- 3. Stem formation
- 4. Inflectional or outer layer suffixes
- 5, Inflected forms in verb phrases
- 1. Morphophonemics,
- 1.1, Universal morphophonemics,

t + t > t

'kot- + -ti > 'koti <u>to eat fruit</u>

n + n > n

'bokon- + -nat- > 'bokonat- <u>pile at one side</u>

 $a + ('2 \sim '2) > 2'(2 \sim 2); '(2 \sim 2) + a > '(2 \sim 2) 2$ a'ba - + -'22 > a'b2'22 (<u>I</u>, <u>you</u>) <u>ran yesterday</u><math>co'2 - + -a > co'22 (<u>I</u>, <u>you</u>) <u>sat just now</u>

'i + A > 'ii
ni- + - A' šaa > 'niišaa walked some days ago

 $V + \text{stop} > V \sim V + \text{nasal (homorganic with stop)}$ + stop. Word final $V > V \sim V n$. 'boan- (stem proper) > bo'a-(stem alterna carry away

bo'aasí (he) carried abo'ampooni (I, you) carried

away away this morning

bo'anti to carry away bo'anks [bo'anks] carried away

bo'a ~ bo'an carry away!

 $v + m \sim n > (v \sim v) (m \sim n)$ i'so + -ma > i'soma ~ i'soma not seeing

'V + V > 'VV 'kwa- + -ašį > 'kwaašį (he) went

 $k^{W} + 0 > k^{0}$ $k^{W}a - + -'22 > k^{W}b'22 > kb'22 (I, you) heard$ yesterday

Restricted

1.2. point morphophonemics

Verb suffix -i \sim -i may be despect or fade into silence in quick or careless speech.

'kwaasi (he) went may become 'kwaasi 'kaina 'kwati do you hear may become 'kaina 'kwat

V + ?V > VV in verb forms only
'ta-+ ?1'koti > 'tai'koti to hug around the neck

 $V + (b \sim r)$ of derivational suffixes > $Vb \sim Vr$ $V + (b \sim r)$ of derivational suffixes > $Vb \sim Vr$

2 Criteria of work form class

Werb words which occur with inflectional suffixes to indicate tense-aspects and person of the subject.

9 3. Stem formation.

Verb stems de de as simple and derived.

Simple stome

3.1. Simple stems may be of one or two syllables. The patterns of simple stems may be arranged in three groups; monosyllabic stems, disyllabic stems ending with an open syllable, and disyllabic stems ending with a closed syllable. The stress always occurs on the first syllable.

3.1.1. Monosyllabic stems are of these patterns: V, CV, VC, CVC.

 '2- make
 'ki- say

 'is- see
 '?oṣ- sleep

 'kot- eat fruit
 'k an- go

In this parties each stem ending with tor n has a stem alternate: stem-final t is dropped and stem-final n appears as nasalization of the preceding vowel. The stem proper is used in all present tense forms; and the stem alternate, with one exception () in all other cases; in 1) as the root of derived stems, 2) in forming compounds,

3) as	simple	stem	for	all	inflectional	suffi:	xati	on exc	ep t
prese	ent tense	e suf:	fixes	s. Th	ne stem altern	na no	for	'kot-	and
'k war	above	are	ko-	and	'k a- respect	tively	•: 5		

3.1.2. Disyllabic stems ending with an open syllable are of these patterns: V.CV, VC.CV, CV.V, CV.CV, CV.CV.

('ina- row (boat) 'ank^- finish 'aro- cook 'aro- cook 'aro- cook 'aro- cook 'maško- cut (hair) short.

3.1.3. Disyllabic stems ending with a closed syllable are of these patterns: V.VC, V.CVC, CV.VC, CV.CVC, CV.CVC.

'oin- breathe 'Ačit- jerk out over a hole of these patterns: V.VC, V.CVC, CV.CVC, CV.CVC, CV.CVC.

'paškot- get well.

In this each stem has a stem alternate as in 3.1.1. However, in addition to the changes in 3.1.1, stress is shifted from the first to the second syllable. The stem alternates for the above examples are:

\[\text{\chi} \text{\chi} \text{\chi} \text{\chi} \\ \text{\chi} \text{\chi} \\ \text{

4 3.2. Derived stems.

These include transitive and intransitive contrasting stems, simple stems with general affixation, and compound stems.

H 3.2.1. Transitive and intransitive contrasting stems.

The types of simple stems of section 3.1 apply equally to transitive and intransitive verbs. However, when verbs may be semantically both transitive and intransitive, the transitive and intransitive forms are differentiated in the following five ways:

1) by suffixes -ki- (intransitivizing) and -ka- (transitivizing)

'kaki- call loudly 'kaka- call (someone)

Sloudly ;

to'kanki- (water) to oe to'kanka- make waves in sure water .

make waves in swater . ma'biski- cut one's hand thiska- behead (someone)

2) by the dropping of final t from intransitive stems to form transitive stems

'inot- pass : 'ino- pass (something);

'manot- forget : 'mano- forget (something);

'onAt- hide oneself : 'onA- hide (something).

3) by the addition of _____-n to intransitive stems to form transitive stems

'boko- pile up : > 'bokon- pile up (something);

(5) 'soa- scratch : 'soan- scratch (someone else)

ensitive stems ...

(This is a combination of 2 + 3 alone) 4) by replacing final t of intransitive stems by n to form transitive stems

'čikit- go out : _______'čikin- set free;

InanAt- dive, sink : _______'nanAn- sink (something);

'rakat- lie down : ______'rakan- lay (something) down.

5) by the addition of verebarafter the final vowel of intransitive stems to form transitive stems

'šanon- be dry (of) sa'noan- dry (leaves, etc.);

natural juice or sap);

toton- be dry (after, to'toan- dry (soil, etc.).

3.2.2. Stems derived by affixation. Stems may be derived by both prefixes and suffixes.

Some of the prefixes are obtained from the names of the parts of the body, others from postitional attributives, and still others are general.

'mana- tie one's head (maš'ka head) 'nna- tie '?ikot- hug 'taikot- hug around neck (ta'sa neck) 'taška- hit ban'taška- hit one's (babošo <u>elbow</u>) elbow (kWA'bi edge) 'taran- roll kwa'taran- hem 'mani- stand on top (ma'nami high) 'ni- stand 'šamaa- shell corn ('šaki corn) 'man- touch

There is a great variety of derivational suffixes,

-ki- verbalizer, used with nouns and attributives. This has the same form as -ki- of section 3.2.1 but different usage. Here it is used with free noun or attributive stems to form verb stems. In section 3.2.1 it is used with verb roots.

```
o'pi pretty: ______o'piki- be pretty;
   -; ?akasa done in like ; ; ; akasaki- be done in like
                                                                                                            ( manner
                    manner:
                   -kat- has reflexive significance,
           'manio- arrange ; > maniokat- arrange oneself;
    Cyman- touch, hit : - 'manakat- hit oneself .
                   -a- verbalizer, used with noun stems
     'sipo jail: 'sipoa- put in jail; 'bari sun : 'baria- place in the sun.
                   -knt-V gives a passive voice concept to an active
 voice stem.
          'nipat- drop: ______ 'nipakat- fall;
  (something):

(s
 -bot-~-pat- down (-bot- with intransitive verbs,
 -pat- with transitive verbs).
          'kwan- go :- >'kwabot- go down (stream);
  bana- talk: banabot- go down talking;
 boan- carry away : , bo'ampat- carry away down ;
-> toka- break, cut: -- 'tokapat- break or cut, letting
                                                                                     the pieces fall down.
```

```
-nat 4 at one side or going around.
'bokon- pile up: > 'bokonat- pile at one side; > 'boin- carry by: > 'boinat- carry around; > 'sinan- think : 'sinanat- repent.
      -mi- causative,
  S'boan- carry away bo'ami- send.
     -'isit- just, only.
-'ira- much, very well,
   '?onan- learn, know : ->?o'naira- know very well ;
 c,'abat- run : , a'baira- run well;
 'pi- eat : 'piira- eat well.
      -'kasma-~-'kasmat- non-ability, cannot
 (-'kasma- with intransitive verbs, -'kasmat- with
 transitive verbs).
   'kware- go up (stream): 'kware'kasma- cannot go up
                            (stream);
 kwat- hear, under- ka' kasmat- cannot hear, stand: cannot understand;
 'bi- grasp, get : -- bi kasmat- cannot grasp,
                            cannot get.
```

-son- benefactive.

```
'abat- run : a'bason- run for (someone);

(boan- carry away : -> bo'ason- carry away for > (someone);

(someone);

1'2a- do, make : -> '2ason- do for (someone).
```

-'takan- repetitive,

-'anan- reciprocal,

'man- touch, hit: 'manan- hit each other; 'noi- follow, love: 'noi'anan- be friends.

-'kian- ~-'bian- ambulatory, while going (-'kian- with intransitive verbs, -'bian- with transitive verbs).

'abat- run : _____ a'ba'kian- go running ;

'inot- pass : _____ i'no'kian- go passing by ;

''An- leave : ______ ''?A'bian- leave behind;

'ino- pass (something)'ino'bian- go passing by (something).

-nat- at night, during the night,

'a- do, make: -> 'anat- do at night;

Sba'sanan- smoke

o(meat): -> night,

-'kwacin- ~-'bacin- ambulatory, come from (-'kwacin- with intransitive verbs, -'bacin- with transitive verbs),

```
'kwai- play, laugh: - 'kwai'kwacin- come from >
                              Splaying;
5'?0$- sleep: --> '?o$k acin- come from sleeping;
jpi- eat: ______, pibacin- come from eating : >
'?asan- fish with > ?a'sa'bacin- come from fishing >
     Spoison .
                            with poison.
     -'bait- continuative, a long time during the day.
  'abat- run: ----- a'ba'bait- run much ;
G'ni- walk: 'ni'bait- walk much
 c, ka- say : 'ka'bait- say much.
     -'poon-~-pon- time element, this morning,
(-'poon- with stems of more than one syllable, -pon-
with stems of one syllable)
  a'ba'kian- go ______ a'baki'ampoon- went running >
                            Sthis morning;
    Cyrunning ?
 Skwan- go : ____ kwa'ampon- go this morning
     -kan- subjective, the others (of a specified group).
  a'baki'ampoon- go : -- a'baki'ampo'onkan- the others;
 -running this morning: - to have gone running this ?
                           - morning : ,
 ''i- be here, be there : ''ikan- the others to be here,
                            > there .
Joka- wash : ________ 'coka' kan- the others to be >
                           washing.
```

\8/

-'kiin- ~-kin- help (-'kiin- with stems of more than one syllable, -kin- with stems of one syllable).

```
'čoka- wash: >'čoka'kiin- help to wash;
 S'abat- run : - a'ba'kiin- help to run ;
 G'ni- walk : 'nikin- help to walk
     - racot- diminutivizer, a little
   'man- sweep: ______ 'man'racot- sweep a little;
(5) abat- run; a'ba'racot- run a little,
     -'ci- potential, also can (used in the immediate
past).
   'abat- run : ____ a'ba'ci- also can run ;
 5'?i- be here, there: ?i'ci- also can be here, there:
'?a- do, make : ____ ?a'ci- also can do, make
     -'pain-~-pan- first (-'pain- with stems of more than
one syllable, -pan-chiefly, but not exclusively, with
stems of one syllable).
   'coot- sit : ____ co'o'pain- sit first ;
 Soi- roast : ___ ; soi' pain- roast first ;
 S'pi- eat : , pipan- eat first.
     -tan- significance undetermined (used in imperative
verb forms, and before suffix -kas ~ -kaso in subordinate
verb constructions).
   'bi- grasp, get : bi'ta grasp, get(it):
'k'an- go : 'k'an'ta go: ;

'pi- eat : pi'tank so having eaten .
3.2.3. Compounds.
```

Compounds are of two groups according to form-class of constituents.

3.2.3.1. attributive or noun (simple or complex stem forms) + verb

'soa itching + 'maa- touch > 'soa'maa- scratch 'kata <u>layer</u> + 'ni- <u>stand</u>, 'katani- <u>tie</u>, <u>place</u> Sthrow in layers;

'kataraba two +'3- make > 'katarabas- make in Slayers > two layers. or two Stwo layers, or twist Sinto rope,

3.2.3.2. verb + verb

'kwai- play + 'ni- walk > 'kwaini- go playing;

'?ikot- hug + 'boin- carry ?i'koboin- carry by

hugging;

'sinan- think party si'nasinan- be thinking and thinking.

3.2.4. Stems of more than three syllables.

A few verbs other than those types indicated under derived forms may be of three or more syllables. From the general pattern it appears that these derived rather than simple stems.

Son'ka'saro- tie in knots; "a'tišanki- sneeze .

4. Inflectional or outer layer suffixes.

There are four layers (or relative pesitions) suffixes in Cashibo. One layer of suffixes or more may be added to the initial inflectional suffixes.

First layer suffixes

This layer of suffixes is presented in two groups. Group one suffixes are added to all stem norms, group two suffixes are added to stem norms of section 3.1.2 and to stem alternation of sections 3.1.1 and 3.1.3.

4.1.1. Group one suffixes.

-i ~-i present tense (-i occurs with the first and second persons, -i with the third person).

'is- see : 'isi (I, you) see;

nan- place : 'nani (I, you) place;

'ina- row : 'inai (I, you) row;

nan- cultivate : 'nani (I, you) cultivate;

'iat- carry over : 'iati (I, you) carry over shoulder:

Sone's shoulder : 'shoulder;

'nais- scrape out : 'naisi (I, you) scrape out.

The corresponding third person forms are:

(isi (he) sees 'nani (he) places, etc.

-ia present progressive time-aspect, used in the third person only.

'kot- eat fruit: 'kotia (he) is eating fruit;

(kwabot- go down) 'kwabotia (he) is going down)

(stream): (stream).

4.1.2. Group two suffixes,

9/

```
'?onan- learn, know; > ?o'naa (I, you) learned,
                                   knew.
     -'2? past-of-yesterday,
'pi- eat: ______ pi'2? (<u>I</u>, <u>you</u>) ate <u>yesterday</u>, _______ a'bɔ'?? (<u>I</u>, <u>you</u>) ran <u>yesterday</u>.
     -A' saa time between yesterday and long ago.
  'is- see : _______, 'isasaa (I, you) saw some days
                                 Sago;
'abat- run : ____ a'ban'saa (I, you) ran some
                               Sdays ago;
         つ čoka- wash: つ 'čokan'šąą (I, you) washed )
                             Some days ago
     -akn remote past
  'obot- come down : -- o boak (I, you) came down
                                 Glong ago;
>'ba- bring: > 'baaka (I, you) brought long
                                Sago.
     -ki -ki remote continuative (-ki with first and
second persons, -ki with the third person).
'kwan- like: > kwa'anki (I, you) used to like; > a'baki (he) used to run.
     -'no ~-no- future, going to (-'no in principal
verb, phrase finally, -no- when further suffix is added),
   'coot- sit : _____ co'o'no (I, you, he) am, are
                        Sis going to sit;
```

```
'bari- look for ! -> 'bari'no (I, you, he) am, are,
                        ⇒ is going to look for
, batas- covering of covering afterwards.
     -t ~-# second person imperative (-t with stems not
ending with a consonant or nasalized vowel; to those ending
in consonant or nasalized vowel no segmental phoneme is
added. Final syllables, whether stressed or unstressed, are
high in tone.)
'?a- do : ______; '?at do (it):; 

kwaro- go up (stream): 'kwarót go up!;
Sis- see :
abat- run; a'bat run!
     -ti infinitive indicator.
   banat- hurry : ---> ba'nati to hurry;
 bokon- pile up : - bo konti to pile up :-
o''?aro- cook : > ?aroti to cook
4.2. Second layer suffixes.
     -ší third person suffix; follows time suffixes -a,
-'22, -A' saa and -ak A of the previous section.
   '?onan- know, learn: -> ?o'naasí (he) learned just
'pi- eat: pi'22$i (he) ate yesterday;

'is- see: 'is \'saa\si (he) saw some
                                 Gdays ago;
'?a- do: '?aakašį (he) did long ago.
```

yesterday

'piiṣaas eating some days ago

'piakas eating long ago;

'coot- sit : oco'o so on, while sitting;

'k'ano so going afterwards

'rat- cut down : ra'tankaso having cut down

-ša Its significance is not clear, but it probably indicates action or state continued for some time. In principal verbs it is used with the third person only, replacing suffix -ší.

'abat- run:

a'ban'šaaša (he) ran, was

running some days ago;

ko'paša (he) ate, was eating

fruit yesterday;

bari- look for;

barikaša one time when looking

for

```
-a that which (used with suffix -kA)
   'pi- eat : ______ 'pikna that which was eaten,' >
> '?An- leave: ____ '?AnkAa that which was left;
'aro- cook: > 'aroka that which was cooked.
4.4. Fourth layer suffixes.
     -ma -mi negative suffix (-ma follows suffixes
  -no-, -ti, -k∧, -š ~ -šo; -mí follows suffixes
   , -ki ~-ki),
'kwan- go : ______, 'kwanima (<u>I</u>, <u>you</u>) <u>do not go ; ______</u>
G'abat- <u>run</u> : ______, 'abatima (<u>I</u>, <u>you</u>) <u>do not run</u>; ______
G'?inan- give: _____, i nanoma meaning obscure,
                         oprobably, not going to give
k an- go: -- 'k antima not to go;
g'pann- be drunk: __ pa'n nkama not drunk;
 s'k aro- go up (stream): 'k aro'asma not going up;
(he) does not go;
 Sabat- run : --- abatimi (he) does not run ;
 k AAn- like : -- s k A'Ankimi (I, you, he) did
                                Snot like
     -bi ready to, ought to, right now.
   'pi- eat : _____ 'piibi ready to eat,
                        Spitibi must eat
                      > pi'asbi upon eating;
                    k'a'nibi ready to go,
S'k wan- go;
                      kwantibi have to go , > kwa' sobi going right now.
```

5. Inflected forms in verb phrases.

Verb phrases are composed of two inflected verbs, the first naming the action and the second denoting the person. The first verb may have present tense inflection, or -ti, -kA, -š ~-šo suffixation (with possible further qualifying suffixes -ma, -bi etc.). The second verb is some form of the verb '?a- do or '?i-be. There are two forms of the verb to be in the present tense, '?a- and '?i-, probably indicating state and location respectively; the third person forms from the stem '?a-is '?ikA rather than *'?ai.

5.1. Verb phrases with present tense forms.

5.1.1. Present tense verb + to be (?i- form) indicates progressive action. The time element is denoted in the verb to be.

'paran- to fool 'parani 'ii (I, you) am, are (someone);

(someone) 'cokai 'ia (I, you) was, were washing just now;

(abat- run: 'abati 'i'?; (he) was running yesterday,

(running some days ago,

(abati 'ia'kasí (he) was running long ago.

5.1.2. Negative present tense verb + to be indicates

negative past tense in the active voice; the time element is denoted in the verb to be. It appears that these forms indicate progressive action, paralleling the affirmative forms in the preceding section. Other negative past tense forms will be noted in section 5.3.2.

'abatima 'ia (I, you) did not)

'run just now,

'abatima 'isaa (I, you) did

'not run some days ago

'abatima 'iaka (I, you) did

not run long ago

5.1.3. Present tense verb suffixed by -bi + to be (?i-form) indicates a state of readiness to do something. The time element is denoted in the form of the verb to be.

'abat- run : ---> 'abatibi 'kana 4 'ii (I) am

ready to run

'abatibi ka ''iaší (he) was

ready to run just now

'abatibi ka 'i'iaší (he) was

ready to run yesterday,

abatibi ka ''iišaaší (he) was

ready to run some time ago

'abatibi ka ''ia'kaší (he) was

ready to run long ago

ready to run long ago

5.2. Verb phrases with -ti.



5.2.1. -ti form + verb to be indicates either potentiality or future time. The time element is denoted in the verb to be. Negative potentiality is also indicated in the -ti form.

5.2.2. -ti form suffixed by -bi + verb to be (?i- form) indicates obligation, necessity, or wish. The time element is denoted in the verb to be.

'no'maa- work: -> 'no'maa'tibi ka '?if (he) ought

to work;

'paškot- recuperate: paš'ko'tibi 'kamina ?ii may you

be better soon;

'is- see: -> 'isti'bi ka '?iaši (he) ought

>to have seen;

>'?oš- sleep: -> '?ošti'bi kana ?ii (I) ought

>to sleep;

>'k an- go: -> 'k anti'bi kana '?iaka (I)

should have gone long ago,

5.3. Verb phrases with -kA.

The present and immediate past elements are indicated in the verb to be. The time elements of yesterday, some days ago, and remote past are indicated in the -k form.

5.3.2. Negativized -kA + present tense of verb to be forms the negative past tense in the active voice. The time element is denoted in the -kA form.

long ago .

15/

16%

5.4. Verb phrases with -\$ ~-\$o.

Negativized forms of $-\frac{1}{5} \sim -\frac{5}{9}$ + imperative forms of to be \sim to do result in negative imperative verb phrases. $-\frac{1}{5}$ + to be forms the intransitive phrase; $-\frac{1}{5}$ 0 + to do forms the transitive.

5.5. Verb phrases with -no.

5.5.1. -no + imperative of verb to do forms first person plural imperative.

5.5.2. Negativized -no + third person present tense of to be results in a deferential command.

'baka- open 'baka'noma ka '?ii please 'open' 'open' 'inanoma ka '?ii please '?iinan- give : -> ?i'nanoma ka '?ii please 'open' '

17/

FOOTNOTES

Cashibo is classified as a member of the Panoan group of languages, of the jungle region of Peru. The Cashibo speakers live along or near the Aguaitía River and some of its tributaries. The data for this paper were obtained in the city of Lima from a Cashibo youth, Gregorio Estrella, and in two field trips to the tribe.

The Cashibo phonemes are: stops p, t, k, k, 2; affricated stops c, 2; fricatives b, s, s, s; nasals m, n, ñ; vibrant r; vowels i, e, a, 2, o, A and the nasalized counterparts i, e, a, 2, o, A according to present analysis, stress and tone are both phonemic. Stress is indicated by a vertical stroke above the line, immediately preceding the stressed syllable. Tone is indicated by an acute accent over the vowel of high tone, the contrasting phonemic low tone being unmarked. Phonemic stress in syllables is accompanied by non-phonemic high tone, the final syllable in a stress contour being non-phonemically low in tone, unless phonemic high tone is indicated. V symbolizes any vowel, low dot syllable division, square brackets phonetic writing.

There is no distinction in the verb forms to indicate number or gender. In the examples the English pronouns are placed in parenthesis to indicate the person of the verb.

With derivational suffix -nat- of section 3.2.2.2 the stem proper is used, instead of the stem alternational suffix -nat- of section 3.2.2.2 the

'k anf (he) goes: --> 'k ani'ma (he) does not go > Gabatí (he) runs: -> 'aba'tima (he) does not run.

There are some other uses of this morpheme besides the ones given, but with meaning obscure.

One of the forms 'kana (first person), 'kamina (second person), ka (third person), according to the person of the subject, appears in almost all sentence constructions. These forms are separate from the verb words, but are inserted in the examples where they regularly appear between the two words of a verb phrase.

4 15 Theoretically, the form would be *'biakaka instead of bia.

Theoretically, 'ankaakama instead of 'ankaama.

#\17/ Literally, "I am going to look for; do it!" etc.

- The first four suffixes given: -ki-, -kat-; -aand -kat-, have been found only adjacent to the root. The
 other suffixes do not occur in any fixed order. Suffixial
 morphemes ending with a closed syllable have an alternate
 form as do the verb roots of sections 3.1.1 and 3.1.3.
- The significance of morpheme -a- preceding -kat- is undetermined.
- From suffix -kn; for a fuller description of this see section 4.2.
 - The vowel of the one-syllable stem becomes a geminate cluster with stress on the second vowel when suffix -ponis added.
- # 9/ These suffix forms are unnasalized phrase-medially.
- T 10/ Suffix -ki has other significance in subordinate verb constructions, e.g.

'k"ai'samatan- not 'k"ai'samatan'kibi although

Swant to play:

Gis- see, '?a' do: a) is'kima ka '?at do it

Swithout looking

- Tyly Word final t is unreleased.
- 4 12/-ma may also follow suffix -[. -[loses its high tone and there is a perturbing of the stress pattern of the word as a whole, causing the stress to fall on alternate syllables.

The a of the stem stringly is first assimilated to o, and then influences the kw, reducing it simply k. (where found no occurrence of Kw befor vowelo on u)

1.1.6 Nasalization of ene vowel usually carries over to a following contiguous vowel, e.g.

'kwan- go plie -asinbecomes 'kwanansin he went.

Special morphophonemics
1.2 morphophonemics: The following phonological process es occur
only in some verb forms.

1.211 The final vowel may be droped or lade into silence in the third person suffix of past tenses, e.g.

'k"anansinhe went may become 'k"anans.

less frequently, other final vowels are dropped in quick or careless speech.

'Kaima 'kwati may become 'Kaima 'Kwat do you kenu

1.2.2 word medial glottal stope do not occur in complex v

verb forms. When two or more stems are united to the compound or a secondary derivative, all but initial glottal stops of the resultant complex form are dropped, e.g.

1.2.3 Hearb stems lose hosalization of the final vowel when secondary derivational suffixes not beginning with a stop are added. Nasalization in the form of a masal consonant is retained before steps. Eq.

[Kwall ago + vu | Kwaru | Sco upletus. The bulanti tacamy away ba'ampati treatmy

[Criteria of Verb Form class.]

Verb-like words are determined by the criteria of form. They are words which occur with inflectional suffixes tion to indicate tense-aspect, and person of the subject.

1.24 When stressed one-syllable derivational or inflectional suffixes are added to simple week stems of one syllable, stress is retained on the suffix and dropped from the stem in the resultant compound, e.g.

-'bu-suffix indicating sours

Kwanti toge

Kwa buti to go down

3 Stem Formation

Simula Blens

tive ending form; the infinitive ending -ti is dropped, and the remaining stem is the verb stem. Phonological process 1.1.4 has applied in those infinitives in which the -ti ending is preceded by n. It is understood that the underlying stem contains a masal vowel, whose masalization appears here as n before the -ti ending. Verb stems may at also be obtained by dropping the -ka ending from the perfect participle form. ** In most examples of this p per the infinitive forms are given first.

Verb stems are of two classes, simple and complex.

Simple stems are those which are composed of one morpheme; complex stems contain more than one morpheme.

3.1 Simple stems may be of one syllable, of two syllables with stress on the second syllable, or onotwo syllables *# with stress on the first syllable.

3.1.1 Stems of one-syllable morphemes may follow any one of these patterns: V, CV, VC, CVC, e.g.

'u-ti to come 3

'is-ti to smell

'is-ti to see

'nis-ti to be disturbed

'?uš-ts to sleep

3.1.2 Stems of two-syllable morphemes with stress on the escands syllable, are of these patterns: V'CV, V'CVC, V'VC, CV'VC, CV'CV, CV'CVC, CVC'CV, CVC'CV, CVC'CV, CVC'CV, CVC'CV,

I'ci-ti to jerk out

u'in-ti to breathe

ka'is-ti to choose

bu'kī-ti to tie

bī'tas-ti to cover a hole pīs'ku-ti to get well

bīn'tan-ti to hang (something)

VOV

4

V'VC

20.V

u'in-ti to breathe &I'I-ti to mash
ka'is-ti to choose bu'ki-ti to tie

ka'is-vi to choose bu'kī-vi to tie CVCV
bī'tas-vi to cover a hole pīš'ku-vi to get well &V C 'CV cve eve bin'tan-m to hang (something)

It will be noted that some of these patterns .viz., those of stems ending with consonants, are found only because of the appearance of a masal consonant before the stop of the infinitive ending, in place of a nasalized stem vowel, ascording to section 1.1.4.

3.1.3 Stems of two-syllable morphemes, with stress on the first syllable, are of these patterns: 'V.CV, 'VC.CV, 'CV.V. 'CV.CV, 'CVC.CV, e.g.

'an.kī-ti to finish 'i.na-ti to row (a boat) 'ma.I-ti to sweep '?a.ru-ti to cook

'maš.ku-ti to cut short(hair)

The Same as 3.1.4 A few verb stems are simply noung or attributive stems with verb derivational or inflectional endings added. These then become simple verb stems, and follow the patterns of stems as in sections 3.1.2 or 3.1.3 above, None have been found of pattern 3.1.1. n.g.

i'mI night i'mi-a night to be falling '?uku cough !?uku-to to cough

The inflected form of the noun may also be used, e.g. 'taši salt ta'šin with, by means of, salt ta'six-to to salt (fish, etc.) 'rika net (fish) ri'kan with, by means of, the net to kan-to cast the net

A negative infinitive has also been found as a verb

stem,

'?atima not to do

'?atima-ti to be untidy

compounde

attraction

3.2 Complex stems

product for affire the start way be a more

complex, stems appear to be of three classes: primary

derivatives. secondary derivatives

derivatives, secondary derivatives and compounds/. In addition, are some stems whose derivation is obscure.

3.2.1 Primary derived stems are composed of a one-morpheme stem, of one of the three types as in section 3.1, plus the bound morphemes -ka or -ki. Thus far in our investigation, the stems to which these suffixes are added appear to be bound. -ka is used in transitive verb forms . and -ki in intransitive forms. On the morphemes may be used with the same stem, e.g.

'kīki-ti to call loudly 'kīka}ti to call (someone) loudly

tu'kanki-ti (water) to be in waves tu'kanka-ti to make waves in water

mī'biski-ti to cut one's hand

tī'biska-ti to behead (someone)

3.2.2 Secondary derived stems may be formed by the prefixation, or by the suffixation, of bound forms to the "free"

3.2.1. Stemo derived by affixation

3.2.1.1 Prefixation

3.2.2.1. The initial syllable of name words for body parts

may be prefixed to verbs to convey the idea of the action having been performed on that part of the body, e.g.

maš'ka head 'nīa-ti to tie 'manīa-ti to tie one's

tī'ša neck ?i'ku-ti to hug 'tīi'ku-ti to hug around the neck

'ba bušu <u>elbow</u> 'taśka-ti <u>to hit</u> ban'taška-ti <u>to hit one's elbow</u>

3.2.2.1.2 The initial syllable of other noun-words and of attributive words may be used as prefixes also, e.g.
'šīki corn 'mī-ti to touch 'šīmī-ti to shell corn kwī'bi edge, border ta'ran-ti to roll (something) kwī'taran-ti to hem (roll the edge)

3:2.1.2(3.2.2.2) Suffixation

3.2.2.2.1 Verbalizer -ki- with nouns or attributives, e.g. bīš'ba fine, smooth bīš'baraki-ti to be fine in texture

u'pi pretty u'piki-ti to be pretty
'?ak'; sa like done

There may be more than one layer of immediate constituents, e.g. '?a- ha do, -ki perfect participle suffix, -sa suffix used elsewhere also to imply the idea of like or as

!?akTsaki-ti to be as it was done before, or to be

baka mi under to nine like done

baka river _mi locative suffix, in or under, towards, to bakamiliki-ti to drown to be in r under the river

This suffix though shoutiesly the same is different.

In used with free to so attribution stems to form weeks, In the preceding section it is used with bound weeks, In the preceding section it is used with bound weeks, In the preceding section it is used with bound weeks, I with the preceding section are in continuent with which the true time.

us complet stem from

2.2.2.2 Verbalizer -a- with noun stems, e.g.

'sipu jail

'sipu'a-ti to put in jail

'bari sun

'bari'a-ti to place in the sun

3.2.2.2.3 - 'k"-, proceedy the perfect participle outfire, may help form new oterm. (a change of stress will be noted in the first two examples, probably indicative of transitive and intransitive qualities).

2.2 (3.2.3) Compounds E.g. mi parti todrop

Compounds are of two groups according to form- in pak : to fait nts. 'tintu'mati to lend someclass of immediate constituents.

3.2.3.1 Compounds formed by attributive or noun plus verb, e.g.

'Sua itching 'mi-ti to touch 'sua'mi-ti to scratch co', k "-1; to ke 'kata <u>layer</u> 'ni-ti to stand, to throw sealed, To live.

'kata ni-ti to tie, place in layers

u'pi pratty 'o-ti to make, do katafabia/ti

u'pio-ti #/bl/tl to make pretty

'kata ra b ; two layers

There may be more than one layer of immediate constituents, o.g.

'tata layer rathi two 'katarabio-ti to make in two layers, or to twist into rope

- 3.2.3.2 Compounds formed by combining verb stems
- 3.2.3.2.1 Two or more free stems may be combined to form a compound stem, e.g.

'kwai-ti to play ni-ti to walk, throw 'kwaini-ti to go playing

?i'ku-ti to hug bu'in-ti to carry ?i'kubu'in-ti to carry hugging

3.2.3.2.2 Compound stems are also formed by the redu plication of a simple verb stem. They express action

continued a long time, or done over and over again. E.g. kīš'kan-kīš'kan-ti to wabble (such as a weak table) si'nan-si'nan-ti to be thinking and thinking

3.2.4 Stems of more than three syllables

some verbs, comparatively few, may be of three or more syllables, other than those types indicated under the derived and compound forms. Further investigation may enable us to classify them under types already given, or to form new sections for the derived forms. From the general pattern it would seem that these must be derived rather than simple forms stems. E.g. 'r' dio - to together, jain ? a'tišanki- anexe

3.3 Transitive and Intransitive categories

equally to transitive and intransitive verbs. Transitive verbs in Cashibo are these in which the action is married across to an abject. The object may be stated or implied in the sentence. That is, the quality of the verb is potentially transitive.

Intransitive verbs are those not able to take an object.

There are few differences in the formation of transitive and intransitive verbs in their stems, and derivational authors. and inflectional layers. The forms of section 3.2.1 while have been noted; see also sections 4:2, 11, 13 and 5.1.1.7(- kasma-autifus) and pettern 6.4.

However, when a verb consept may be petentially semantically

puricular ?

both transitive and intransitive, contracting patterns in the verb stems have been noted. These are of four types.

3.2.1 The stress feature occurs on the second syllable in intransitive stems, and on the first syllable in transitive stems, e.g.

Intransitive:

Transitive:

i'nu-ti to pass

inu-ti to pass (something)

ma'nu ti to forget

'manu-ti to forget (sometning)

u'nī-ti to hide oneself 'unī-ti to hide (something)

About eleven of these contrasting patterns have been found.

3.2.2 When the stress occurs on the initial syllable in the intransitive form, the transitive form is stressed on the second syllable and the second-syllable vowel becomes nasalized (or is followed by a before t), e.g.

Intransitive:

Transitive:

'ouku-ti to pile up

bu'kun-ti to pile up(something)

'sua-ti to scratch

Su'an-ti to scratch (someone else)

Only a possible two other examples of this pattern have been found.

Stress may be on the second syllable in the intransitive form, and remains on the second symbale in the transitive form, with nasalization of the second-syllable vowel. The three examples found are

Intransitive:

Transitive:

na'nī-ti to dive, sink

na nin-ti to sink (something

else)

či'ki-ti to go out

ci'kin-ti to set(something)

free

ra'ka-ti to lie down

ra'kan-ti to lay (something)

down

3.3.4 There is still another type of contrast, in which Stress occurs on the second syllable in both the intransitive and transitive forms, with the addition of segmental phoneme is additional additional articles.

Intransitive:

Transitive:

ša'nun-ti to be dry sa'nuan-ti to dry(leaves, etc.)

(of natural juice or sap)

tu'tun-ti to be dry tu'tuan-ti to dry(soil, etc.)

(after becoming wet with water)

A possible four examples of this type of contrast have been found.

<u>omit</u>

Although masalization and stress occur predominantly in the transitive forms in the above, one might be reminded that many intransitive verb stems are of these patterns, too. The patterns in general, as given in sections 3.1.1 to 3.1.4 may be transitive or intransitive.

4 Semantic Particular Industrial Suffixes

(but not necessarily circle in order; observed suffer in a section 4.5, occarring before -ki of section haira kiti

While the stem formations described in section 3.2.2. appear to be more or less are basic, other layers of suffixation may be added to stems before the final outside purely-inflectional layers are added. These medial suffixes will be listed according to semantic value rather than in order of occurrence, since they do not occur in any fixed order. They are listed in the order heard most frequently. The suffixes are bound forms added to free stems, with a very few possible exceptions.

-ru- indicates up, as in kwaru-ti to go upstream

'ni-tl to stand 'niru-ti to stand up
'bi-ti to grasp, take 'biru-ti to pick up (something)

'kwan-i to go kwa' bu-ti to go down (stream)
'bana'ti to talk 'bana'bu-ti to go down while
talking

?i'bu to be ''bu-ti to be being down

ou'an-zi to carry bu'ampa-ti to carry down, also to eat, drink

'mapu-ti to cover 'mapu'pa-ti to carry on top

going down (as on the river)

'tuka-ti to break, cut 'tuka'pa-ti to break, cut, let
ting the pieces fall down

bu'kun-ti to pile up bukunna-ti to pile at one side

bu'in-ti to carry by bui'na-ti to carry around

si'nan-ti to think sina'na-ti to repent

4.2.4 -mi- causative, e.g.
?u'nan-ti to learn, know ?u'nami-ti to teach
'is-ti to see 'ismi-ti to make one see, to show
bu'an-ti to carry away bu'ami-ti to send

4.5 -i'ši- expresses the idea of just or only, e.g.

co'o-ti to sit co'oi'ši-ti to be just sitting
'?ee-ti to swallow '?eei'ši-ti to devour

?u'nan-ti'to learn, know ?u'nai'ra-ti to know very well
a'oa-ti to run
a'bai'ra-ti to run well
p'-ti to eot
p''ra-ti to eot p''ra-ti to eot well

4.7 - kasma - indicates non-ability, can not, e.g.

'kwa-ti to hear kwa'kasma-ti not to be able to hear

bi-th to grasp, take bi kasma-ti not to be able to grasp (something)

'kwaru-ti to go up(stream) 'kwaru'kasma-ti not to be able
to go up(stream)

4.3 *sull- altruitive, to do something for someone else.
The resultant form is transitive. E.g.

a'ba-n to run a'oasun-n to run for (someone)
bu'an-n to carry away bu'ansun-n to carry for (someone)

'?a-41 to do, make ?a'sun-6 to do (something) for someone else)

-ti'ki- repetitive, e.g.

'u-tr to come 'uti'kin-to to come again

?a'sun-to dofor. Sin a'sunti'kin-to or '?atiki'sun-ti

(someone) to do again for (someone)

The resultant forms are intransitive.

4.10% -a'nan- reciprocal, each other, e.g.

'mīa'nan-ti to touch each other

'hui-ti to lotlow, to 'nuia'nan-ti to be friends

love

4.11.1 -ki'an- ambulatory, while going, with intransitive verbs, e.g.

a'ba-ti to run others

a'baki'an-ti to go running ri'i-ti to walk with ri'iki'an-ti to go walking with others

i'nu-th to pass

i nuki an-th to go passing by

4.11.2 -bilan-biambulatory, while going, with transitive verbs. e.g.

'?In-ti to leave ?i'ku-ti to hug

'?Ibi'an-ti to leave behing ?i'kubi'an-ti to go hugging, or, to carry in ones arms

'inu-ta

'inubi'an-ta to go passing (something)

4.12 -ni- indicates at, during the night, e.g. '?a-ti to study, do, '?anI-ti" to study, do, at night make

(meat)

bi'sinan-ti to smoke bi'sinani-ti to smoke (meat) during the night

4.13.1 -4k wacin- ambulatory, to come from \$7/\$\$\$116 (doing something else), with intransitive verbs, e.g. 'kwai-ti to play, laugh 'kwai'kwacini ... come playing '?uš'k acini ... come from ¹?uš-ti to sleep sleeping

4.13.2 +b1'cin- ambulatory, to come from (doing something else), with transitive verbs, e.g.

'pi-ti to eat 'pipi'cin-ti to come from eating

'?a-ti to do, make '?abī'cin-ti to come from doing

'ka-ti to say 'kabai-ti to say much

'ni-ti to walk 'nibai-ti to walk a long time

a'ba-ti to run a long time

a'babai-ti to run a long time

a'babai-ti to run a long time

a'babai-ti to run a long time

A-15 -pun time element, this morning, e.g. The form pun occurs and a'bakilahatium to me and a'babai.

a'bakilantium to go a'baki'ampuni"... went running oftenise pur running

'ka-ti to say 'kapuni' ... said this morning

4.16% -'kan- gives a subject idea, the others, e.g.

a'ba-ti to run

a'baki'am' pun'kannim the others

went running this morning

'?i-ti to be here, there ?i'kan-ti the others to be there
'čuka-ti to wash
'čuka'kan-ti the others to be
washing (something)

The forms appear to be mutually exclusive, the form -kin occurs with being used with one-syllable stems. E.g. The resultant forms are trans.

'čuka-ti <u>to wash</u> (something) 'čukaki'in-ti to help to wash (something)

14

a'ba-ti to run

a'baki'in-ti to help to run

'?a-ti to do

'?akin-ti to help to do

4.12 -racu- diminutivizer, to do (something)a little;

'maï-ti to sweep 'maï'racu-ti be sweep a little

a'ba-ti to run a'ba'racu-ti run a little

4.19 - ci- potential, can, be able to also, used usually in the immediate past, e.g.

a'oa-ti to run

a'ba'cia ... also can run

'?i-ti to be here, there ?i'cia ... also can be here, there

'?a-ti to do, make ?a'cia ... also can do, make

4.20 -pa'in- or -ipan- indicates first. -pa'in- ap ears present to be used with stems of more than one syllable, the alternate form being used chiefly, but not exclusively, with one-syllable stems, E.g.

co'o-ti to sit

'situti to roast

'pi-ti to eat

Ani-ti to walk

co'opa'in-ti to sit first
'suipa'in-ti to roast first
pi'pan-ti to eat first
ni'pan-ti to walk first

4.21.) tan- appears to convey the idea of right now, and to be used in imperative constructions only, e.g.

'bi-ti to get, grasp 'kwan-ti to go bi'tan get (it) right now! kwan'tan go right now!

5 Inflection in Single Verb Words

Inflection may be shown by suffixation and by suprasegmental features. Tense-aspect and person of the subject
are thus indicated. There are simple forms, consisting of
only one word, and complex forms, in which the verb thought
is contained in a vero phrase consisting of two words. These
will be described respectively as verb words and vero
will be described respectively as verb words and vero
phrases. This section deals with inflectional forms in verb
words.

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5.1 Inside layer of inflectional changes

'sina'nati" (I, YGE) repent 'sina'na-ti to repent ?u'namii" (I, you) teach ?u'nami-ti to teach co'oi'ši-ti to be just co'o'išiti" (I, you) just sit sitting a'baira-ti to run well a'bairai (I, you)run well 'kwaru'kasma-ti not to 'kwaru'kasmai" (I, you) can go be able to go up(stream) up(stream) *kwa'kasma-ti not to be kwa'kasmati" (I, you) can not able to hear hear ra'k "Tšun-ti to righten ra'k "Tšuni" (I, you) frighten '?arutī'kīn-ti to cook '?aru'tīkīni"(I, you) cook again again mia'nan-ti to touch, hit, 'mi'anani" (I, you) hit each each other other a'baki'an-ti to go running'ba'kiani" (I, you)go running ning 'pibi'an-ti to go eat- 'pibiani'(I, you) go eating ing pa'nī-ti to do at night 'panīti" (I, you) eat at night blinik waitin-ti to come bī'nī'kwatinin (I, you) come hurrying hurrying 'Zukabiloin-tictoccome 'čuka' bīcini" (I, you) come from washing(aomething) from washing (something) a'ba'bai-ti to mun a a'batbaitin (I, you) run a long time long time a'bapuni" (I, you) ran this dy bd morning ?i'kan-ti the others to '?ikan' thu others are here be here

'?aruki'in-ti to help

'?arukiini'(I, you)help cook

cook

'nikin-ti to help walk

'nikini' (I, you help walk

'mal'racu-ti to sweep

'maī'racuti' (I, you) sweep

a little

a little

(hnaši-ti to bethe)

'nasi'cia (I, you) biso can bathe

co'opa'in-ti to sit first

co'opaini" (I, you) sit first

pi'pan-ti to eat first 'pipani" (I, you) eat first

5.1.2 Suffix -1, added to the present-tense stems as given in sections 5.1.1, is used in the third person & of verbs, e.g.

'is-ti to see

'isi"(he) sees

a'ba-ti to run

'abati' (he) runs

'?aru-ti to cook

'?aruin(he) cooks

Exception:

The third person form of the verb to be is 'ikT. which seems to have no appearance of regularity. It is the only such irregularity found thus far in our study.

5.1.3 Suffix -ia is added to the present-tense stems to indicate present-progressive time-aspect, in the third person only, e.g.

'kani-ti to grow

Malaina (he) as growing

kwa bu-ti to go down

'kwabutia (he) is going

| PETER (Stream) | EMOS |

a leaddwn(stream)on) cason a

'ku-ti to eat fruit

'kutia (he) is eating ruit

Nego Craffina, (i) interestable and area to the second of the

puchati mitsu puchati mitself pukusu mitaura Xuikima pwaki mitaley michilati Xuiti purate minuti rabique rabi Mauria nayaba rights nishabu mishei saiki niente sinanti nuanti Shiata nuith tapil tastya nui tatsibu taxaka Muuno tayleg muin 4 minhei tické tsasiti Mirki tsiniki tsihwisti mura toipumi Frenti toimpiru i x bu trinte packe piriku pikarski pikarati tracti pikiki Xaka Kananti pikiti X itaski pimpiru X itasti

luce listasti aa 2 ast kwaya aá ligba J Eininti z'ashaka ady kwäinte birbi 1 trikwisti > b'irluta abati Rwitata bireku tsapiti ai 1 Kamuni hiy na hwingpan 1 pitsusti maniki manuti It soft! aina butiti -000 Xi burante mapara Much mit atu , abunku atri butuagé. - Ikaa ? a pati ? a muti } as maskwa atily butuaxi - i kaa xi masme Cutate atura > ibapa -akli notacti chaama aybi -akixi ilma materila charki haburu) irapa marka -nuxu bachi parata. - charker ichu mii -+ | Kinti) where hanati mili chumbi - tankix riopa. bibati chusku -tanki xu bi chiki > 12世間 muy ichibi "ina - Hux bikuta ioma limana kameni kamina Im Chukati 1 ratu ing lintanti I chikati unati kirpa - k /b :) mi Kinta bisuaxi -Klibima Burchi) uji biri Thurse 1 bi ráma mai'racuti (I, you) sweep a mai'ratu-ti-to aweep d pika rati spika yaki Saruki in-ti to help conkarini (I. you)help cook pù si

FOOTNOTES

- languages, of the jungle region of Peru. The Cashibe speakers live along or near the Aquaitia River and some of its tributaries. The data for this paper were obtained in Lima cash from a Cashibe youth, Gregorie Estrella, and in two field trips to the tribe.
- 2 The Cashibe phenemes are: steps p, t, k, k, ?; affricated steps c, č; fricatives b, s, š, s; masals m, n, ñ; vibrant r: vevels i, e, a, p, e, I and the masalized counterparts in, e, a, p, e, I and the masalized counterparts in, a, a, p, e, I. According to present analysis, stress and tone are both phenemic; stress is indicated by a vertical streke above the lime, immediately preceding the stressed syllables fone by an acute accent ever the vewel of high tone, the centrasting phenemic lew tene being unmarked. V synbolizes any vernel, low dot syllable dimeson, square practice phenetic willing
- There is no distinction in the verb forms to indicate number or gender. In the examples the English prenouns are placed in parenthesis to indicate the person of the verb.
- one of theforms kana (first person), kamina (second person, ka (third person), according to the person of the subject, appears in almost all sentence constructions.

 These forms are separate from the verb words, but are

(FOOTNOTES)

The first four suffixes given, viz., -ki-, -kat-,
-a- and -kI\(\sigma\), have been found only adjacent to the root.

The other suffixes do not occur in any fixed order. Suffixial
morphemes ending in a closed syllable have an alternate
form as do the verb roots of sections 3.1.1 and 3.1.3.

1.4 The significance of morpheme -a- is undetermined.

section 4:2.

The vowel of the one-syllable stem becomes a geminate cluster with stress on the second part, when suffix -pon-is added.

48. Suffix - Kinka ather significance in subordinate verb

ma! i'bian- pomoping

'kwai samatan-nutwant

ME See

to 12.00

ma' i bi'an Kin having seen

(a) do not want to flay.

Cour is'k marka Pat don't wedon't

I thoughout the unreleased.

He There are some other uses of this morpheme, with meaning obscure.

VERB MORPHOLOGY OF (Tentative description)

Olive Shell

INSTITUTE OF LINGUISTICS SUMMER

- Phonomechanics and Morphophonemics L
- Criteria of Verb Form Class
- Stem Formation
 - 3.1 Simple
 - 3.2 Complex
- 3.3 Transitive and Intransitive Categories

 Classification:
 Semantic (Categories) of Further Derivational Suffixes
- Inflection in Single Verb Words
- Inflection in Verb Phrases
- Notes

- 1 Phonomechanics and Morphophonemics
- Phonomechanics: A few phonological phonomena are universal in the language.
- When s is followed by s there appears to be complete progressive assimilation and then reduction to only one phoneme, s, e.g.

isisu-ma ka '?at becomes i'suma ka '?at Do not look

1.1.2 When a is followed, by, o (or nasalized counterparts a of either) there is complete regressive assimilation, a becoming o; e.g. nevaluation seems not to be carried onev. F.g.

a'ba-<u>run</u> plus -on (yesterday time-ending) becomes

co'o- set plus -a (immediate post time-ending) becomes co'oo sat just not the seed 1.1.3 When I is preceded by i there is complete progressive assimilation, I becoming i, e.g.

ni- walk plus -işa becomes (time-ending for a sew days ago) becomes 'niisa walked the other day.

1.1.4 When nasalized vowels occur before (voiceless) stops or affricates, and sometimes word-wedically, the vowel loses part or all of its nasalization and a nasal consonant appears, m before p, n before alveolars t and c, and phonetic [n] before k, e.g.

'kwan-ti to go

'kwan-ti to go

'kwan-kima /kwan-kima/ not gone

'kwan-kima /kwan-kima/ not gone

Nasalized vowels appear to lose their nasalization before nasal consonants, as in the example of 1.1.1, morphemes -šun plus-ma becomes-šuma-.

1.1.5 Before back rounded vowels, kW loses its labialization,

k a- go plus -o o (yesterday time-ending) becomes skoono" went yesterday.

The a of the stem obviously is first assimilated to o, and then influences the k , reducing it simply k.

1.1.6 Nasalization of one vowel usually carries over to a following contiguous vowel, e.g.

'kwan- go plus -aší becomes 'kwananší he went.

1.2 Morphophonemics: The following phonological processes occur only in some verb forms.

1.211 The final vowel may be dropped or fade into silence in the third person suffix of past tenses, e.g.

Less frequently, other final vowels are dropped, in quick or careless

word medial glottal stops do not occur in complex z verb forms. When two or more stems are united to form a compound or a secondary derivative, all but initial glottal stops of the resultant complex form are dropped, e.g.

tī'ša plus ?i'kuti gives 'tīi'kuti to hug around the neck.

tisa plus ?i kuti gives our at a final sower

section of the section of the source of

Verb-like words are determined by the criteria of form. They are words which occur with inflectional suffixation to indicate tense-aspect, and person of the subject.

1.24- Augustion of the said and Sample the action of mulesyllater, (in the resultant and and and chiese is retained on the auffer and disripled from the Stand, ex. -bu- softer indicating do kina but. To so low.

3 Stem Formation

tive ending form; the infinitive ending -ti is dropped, and the remaining stem is the verb stem. Phonological process 1.1.4 has applied in those infinitives in which the finite ending is preceded by n. It is understood that the underlying stem contains a nasal vowel, whose nasalization appears here as n before the -ti ending. Verb stems may at also be obtained by dropping the -ka ending from the perfect participle form. In most examples of this p per the infinitive forms are given first.

Verb stems are of two classes, simple and complex. Simple stems are those which are composed of one morpheme; complex stems contain more than one morpheme.

Simple stems

- 3.1 Simple stems may be of one syllable, of two syllables with stress on the second syllable, or offictwo syllables with stress on the first syllable.
- 3.1.1 Stems of one-syllable morphemes may follow any one of these patterns: V, CV, VC, CVC, e.g.

 'u-ti to come 3

 'sī-ti to smell

 'is-ti to see

 'niš-ti to be disturbed

 '?uš-t; to sleep
- 3.1.2 Stems of two-syllable morphemes, mwithostressign the escapheseyllable, are of these patterns: V'CV, V'CVC, V'VC, CV'VC, CV'CV, CV'CVC, CVC'CV, CVC'CV, CVC'CVC, CVC'CV,

I'ci-ti to jerk out I'rîn-ti to light (something)

u'in-ti to breathe 'cī'i-ti to mash

ka'is-ti to choose bu'kī-ti to tie

bī'tas-ti to cover a hole pīš'ku-ti to get well

bīn'tan-ti to hang (something)

u'in-ti to breathe critito mash

ka'is-ti to choose bu'kr-ti to tie

britas-ti to cover a hole pris'ku-ti to get well

britan-ti to hang (something)

It will be noted that some of these patterns, viz., those of stems ending with consonants, are found only because of the appearance of a nasal consonant before the stop of the infinitive ending, in place of a nasalized stem vowel, ascording to section 1.1.

3.1.3 Stems of two-syllable morphemes, with stress on the first syllable, are of these patterns: 'V.CV, 'CC.CV, 'CV.CV, 'CV.CV, e.g.

'i.na-ti to row (a boat) 'an.kī-ti to finish
'ma.ī-ti to sweep '?a.ru-ti to cook
'maš.ku-ti to cut short(hair)

3.1.4 A few verb stems are simply nouns or attributive stems with verb derivational or inflectional endings added. These then become simple verb stems, and follow the patterns of stems as in sections 3.1.2 or 3.1.3 above, None have been found of pattern 3.1.1. E.g.

i'mī night i'mī-ti night to be falling
'?uku cough '?uku-ti to cough

The inflected form of the noun may also be used, e.g.

'taši salt ta'šiⁿ with, by means of, salt

ta'šin-ti to salt (fish, etc.)

'rika net (fish) ri'kaⁿ with, by means of, the net

ta'kan-ti to cast the net

A negative infinitive has also been found as a verb stem,

'?atima not to do

'?atima-ti to be untidy

3.2 Complex stems

derivatives, secondary derivatives and compounds. In addition, are some stems whose derivation is obscure.

3.2.1 Primary derived stems are composed of a one-morpheme stem, of one of the three types as in section 3.1, plus the bound morphemes -ka or -ki. Thus far in our investigation, the stems to which these suffixes are added appear to be bound. -ka is used in transitive werb forms, and -ki in intransitive forms. Order both morphemes may be used with the same stem, e.g.

'kīki-ti to call loudly 'kīka)ti to call (someone)

loudly

tu'kanki-ti (water) to be in waves tu'kanka-ti to make waves in water

mī'biski-ti to cut one's hand

tl'biska-ti to behead (someone)

- 3.2.2 Secondary derived stems may be formed by the prefixation, or by the suffixation, of bound forms to the free stem.
- 3.2.2.1 Prefixation
- 3.2.2.1. The initial syllable of name words for body parts

may be prefixed to verbs to convey the idea of the action having been performed on that part of the body, e.g.

maš'ka <u>head</u> 'nīa-ti <u>to tie</u> !manīa-ti <u>to tie one's</u>

head

tī'ṣa neck ?i'ku-ti to hug 'tīi'ku-ti to hug around the neck

baⁿbušu <u>elbow</u> 'taška-ti <u>to hit</u> ban'taška-ti cha 's

3.2.2.1.2 The initial syllable of other noun-words and of attributive words may be used as prefixes also, e.g.

'Sīki corn 'mī-ti to touch 'Sīmī-ti to shell corn kwī'bi edge, border ta!ran-ti to roll (something) kwī'taran-ti to hem (roll the edge)

3.2.2.2 Suffixation

3.2.2.2.1 Verbalizer -ki- with nouns or attributives, e.g.

bīš'ba <u>fine</u>, <u>smooth</u> bīš'baraki-ti <u>to be fine in</u>

<u>texture</u>

u'pi <u>pretty</u>

u'piki-ti <u>to be pretty</u>

There may be more than one layer of immediate constituents, e.g. '?a- to do, -ki perfect participle suffix, -sa suffix used elsewhere also to imply the idea of like or as

'?akīsaki-ti to be as it was done before, or to be like done

baka river -mi locative suffix, in or under, towards, bakami ki-ti to drown or to be in or under the river

3.2.2.2.4 Suffix -'ka (different from that of section 3.2.1) gives reflexive significance to the verb, and the resulting forms are intransitive. Four examples have been found. The stems may be free forms as in 'minio'ka-ti to arrange oneself; the other stems have not been found as free forms. L.g.

/yyya/ka/t1//to/be/tat/The occurrences found are :

-itheplanbyleformer saving money on boxiling -skiff has seen

'mīa'ka-ti to hit oneself

'minio'ka-ti to arrange oneself

'rīra'ka-ti to be fat

'ruča'ka-ti to be ill

3.2.2.2.2 Verbalizer -a- with noun stems, e.g.

'sipu jail

'sipu'a-ti to put in jail

'bari sun

'bari'a-ti to place in the sun

3.2.2.2.3 -'ki'- possibly the perfect participle suffix, may help form new stems.

All change of stress will be noted in the first two examples, probably indicative of 3.2.3 Compounds transitive and intransitive qualities) Eig. ni'pati to drop

Compounds are of two groups according to form- 'n' pakut; to fall class of immediate constituents.

3.2.3.1 Compounds formed by attributive or noun plus verb. e.g.

eristi to sit

to hand oneself

to live.

Tistee nak 1-ti to be ben'

'šua itching 'mī-ti to touch 'šua'mī-ti to scratch

'kata <u>layer</u> 'ni-ti <u>to stand</u>, <u>to throw</u>

'kata@ni-ti to tie, place in layers

u'pi pretty 'o-ti to make, who katatatatatata u'pio-ti a/pi/ti to make pretty

There may be more than one layer of immediate constituents, e.g.

'kata <u>layer</u> ra'bî <u>two</u> 'katarabīo-ti <u>to make in two</u>

<u>layers</u>, <u>or to twist into rope</u>

- 3.2.3.2 Compounds formed by combining verb stems
- 3.2.3.2.1 Two or more free stems may be combined to form a compound stem, e.g.

'kwai-ti to play ni-ti to walk, throw 'kwaini-ti to go playing

?i'ku-ti to hug bu'in-ti to carry ?i'kubu'in-ti to carry hugging

3.2.3.222 Compound stems are also formed by the reduplication of a simple verb stem. They express action continued a long time, or done over and over again. E.g. kīš'kan-kīš'kan-ti to wabble (such as a weak table) si'nan-si'nan-ti to be thinking and thinking

3.2.4 Stems of more than three syllables

Some verbs, comparatively few, may be of three or more syllables, other than those types indicated under derived and compound forms, Further investigation may enable us to classify them under types already given, or to form new sections for the derived forms. From the general pattern it would seem that these must be derived rather than simple forms.

3.3 Transitive and Intransitive categories

All the foregoing methods of stem formation apply equally to transitive and intransitive verbs. Transitive verbs in Cashibo are these in which the action is carried across to an abject. The object may be stated or implied. That is, the quality of the verb is potentially transitive. Intransitive verbs are those not able to take an object. There are few differences in the formation of transitive and intransitive verbs in their stems, and derivational and and inflectional layers. The forms of section 3.2.1 while will have been noted; see also sections 4:2, 11, 13 and 5.11.61(Akasmaffsuffix) and derivational differences, and section 6.6 for inflectional differences.

However, when a verb concept may be potentially both transitive and intrareltive, a difference of stress

both transitive and intransitive, contrasting patterns in the verb stems have been noted. These are of four types.

3.2.1 The stress feature occurs on the second syllable in intransitive stems, and on the first syllable in transitive stems, e.g.

Intransitive:

Transitive:

i'nu-ti to pass

'inu-ti to pass (something)

ma'nu-ti to forget

'manu-ti to forget(something)

u'nī-ti to hide oneself

'unī-ti to hide(something)

About eleven of these contrasting patterns have been found.

3.2.2 When the stress occurs on the initial syllable in the intransitive form, the transitive form is stressed on the second syllable and the second-syllable vowel becomes nasalized (or is followed by n before t), e.g.

Intransitive:

Transitive:

'buku-ti to pile up

bu'kun-ti to pile up(something)

'sua-ti to scratch

su'an-ti to scratch (someone else)

Only a possible two other examples of this pattern have been found.

3.2.3 Stress may be on the second syllable in the intransitive form, and remains on the second syllable in the transitive form, with nasalization of the second-syllable vowel. The three examples found are

Intransitive:

Transitive:

na'nī-ti to dive, sink

na'nin-ti to sink (something

else)

či'ki-ti to go out

či'kin-ti to set(something)

free

ra'ka-ti to lie down

ra'kan-ti to lay (something)

down

3.2.4 There is still another type of contrast, in which stress occurs on the second syllable in both the intransitive and transitive forms, with the addition of segmental phoneme a in the transitive form, e.g.

Intransitive:

Transitive:

ša'nun-ti to be dry ša'nuan-ti to dry(leaves, etc.)

(of natural juice or sap)

tu'tun-ti to be dry tu'tuan-ti to dry(soil, etc.)

(after becoming wet with water)

A possible four examples of this type of contrast have been found.

omit

Although nasalization and stress occur predominantly in the transitive forms in the above, one might be reminded that many intransitive verb stems are of these patterns, too, The patterns in general, as given in sections 3.1.1 to 3.1.4 may be transitive or intransitive.

4 Semantierglassifications of Jurther derivational Suffixes

While the stem formations described in section 3.2.2. appear to be more or less are basic, other layers of suffixation may be added to stems before the final outside purely-inflectional layers are added. These medial suffixes will be listed according to semantic value rather than in order of occurrence, since they do not occur in any fixed order. They are listed in the order heard most frequently. The suffixes are bound forms added to free stems, with a very few possible exceptions.

'ni-ti to stand 'niru-ti to stand up 'bi-ti to grasp, take 'biru-ti to pick up (something)

4.2.1-bu- indicates down, with intransitive verbs, e.g.
'kwan-ti to go kwa'bu-ti to go down (stream)
'bana'ti to talk 'bana'bu-ti to go down while

Dania Du-ti to go down wille

talking

?i'bu-ti to be being down

4.2.2 'pa- indicates down, with transitive verbs, e.g.

bu'an-ti to carry bu'ampa-ti to carry down, also

away to eat, drink

'mapu-ti to cover 'mapu'pa-ti to carry on top

going down (as on the river)

'tuka-ti to break, cut 'tuka'pa-ti to break, cut, let
ting the pieces fall down

- 4.2.3 -'na- indicates at one side, going around, e.g.

 bu'kun-ti to pile up 'bukunna-ti to pile at one side

 bu'in-ti to carry by 'bui'na-ti to carry around

 si'nan-ti to think 'sina'na-ti to repent
- 4.2.4 -mi- causative, e.g. The resultant form is translate. E.q. ?u'nan-ti to learn, know ?u'nami-ti to teach

 'is-ti to see 'ismi-ti to make one see, to show bu'an-ti to carry away bu'ami-ti to send
- 4.5 -i'ši- expresses the idea of just or only, e.g.

 co'o-ti to sit co'oi'ši-ti to be just sitting
 '?ee-ti to swallow '?eei'ši-ti to devour

4.6 -i ra) expresses <u>much</u>, <u>very well</u>, e.g.

?u'nan-ti'to <u>learn</u>, <u>know</u> ?u'nai ra-ti to <u>know very well</u>

a'ba-ti to <u>run</u>

pi'-t; to eat

pi'ira-ti to eat well

4.7 - kasma- indicates non-ability, can not, e.g.

'kWa-ti to hear kWa'kasma-ti not to be able to hear

'bi-ti to grasp, take bi'kasma-ti not to be able to grasp (something)

'kwaru-ti to go up(stream) 'kwaru'kasma-ti not to be able to go up(stream)

4.8 • sun- altruitive, to do something for someone else. The resultant form is transitive. E.g.

a'ba-ti to run a'basun-ti to run for (someone) bu'an-ti to carry away bu'ansun-ti to carry for (someone)

'?a-ti to do, make ?a' sun-ti to do (something) for someone else)

4.9 -tī'kī- repetitive, e.g.

'u-ti to come 'uti*kin-ti to come again
?a'sun-ti to dofernethinga'sunti'kin-ti or '?atiki'sun-ti
(someone) to do again for (someone)

4.100 -a'naff- reciprocal, each other, e.g.

'mī-ti to touch each other

'mī-ti to touch each other

'nui-ti to follow, to 'nuia'nan-ti to be friends
love

4.11.1 -ki'an- ambulatory, while going, with intransitive verbs, e.g.

i'nu-ti to pass

a'ba-ti to run a'baki'an-ti to go running

ri'i-ti to walk with ri'iki'an-ti to go walking with others

others

i'nuki'an-ti to go passing by

4.11.2 -bi'aff-trambulatory, while going, with transitive verbs, e.g.

'?In-ti to leave

'?Tbi'an-ti to leave behing

?i'ku-ti to hug

?i'kubi'an-ti to go hugging,

or, to carry in ones arms

'inu-ti

'inubi'an-ti to go passing

(something)

4.12 -ni- indicates at, during the night, e.g.

'?a-ti to study, do, '?anīrti' to study, do, at night

make

bī'sīnan-ti to smoke bī'sīnanīkti i smoke (meat)

(meat)

during the night

4.13.1 - k^{W} aciⁿ- ambulatory, to come from $\phi t/\psi h/l e$ (doing something else), with intransitive verbs, e.g. 'kwai-ti to play, laugh 'kwai'kwacini" ... come playing '?uš'k^Wacini"... come from '?uš-ti to sleep

sleeping

4.13.2 \bi'cin- ambulatory, to come from (doing something else), with transitive verbs, e.g.

'pi-ti to eat

'pibi'cin-ti to come from eating

'?a-ti to do, make '?abī'cin-ti to come from doing

4.144 -bai- continuative, a long time during the day, e.g.
'ka-ti to say 'kabai-ti to say much
'ni-ti to walk 'nibai-ti to walk aulong time
a'ba-ti to run a long time

4.15 Ppun- time element, this morning, e.g.

a'baki!anetiw to go a'baki'ampuni' ... went running
running
this morning
'ka-ti to say 'kapuni' ... said this morning

4.16% -'kan- gives a subject idea, the others, e.g.

a'ba-ti to run a'baki'am'pun'ka ninthe others

went running this morning

'?i-ti to be here, there ?i'kan-ti the others to be there

'čuka-ti to wash

'čuka'kan-ti the others to be

washing (something)

4.17 -ki'iⁿ- or -kiⁿ- expresses to help (do something). The forms appear to be mutually exclusive, the form -kiⁿ-being used with one-syllable stems. E.g. The resultant forms are trans.

'čuka-ti to wash 'čukaki'in-ti to help to wash (something) (something)

a'ba-ti to run a'baki'in-ti to help to run
'?a-ti to do '?akin-ti to help to do

4.18 -racu- diminutivizer, to do (something) a little;,

'maî-ti to sweep 'maî'racu-ti to sweep a little

a'ba-ti to run a'ba'racu-ti to run a little

4.19 -'ci- potential, can, be able to also, used usually in the immediate past, e.g.

a'ba-ti to run a

a'ba'cia ... also can run

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'?i-ti to be here, there ?i'cia ... also can be here, there

'?a-ti to do, make ?a'cia ... also can do, make

4.20 -pa'in- or -pan- indicates <u>first</u>. -pa'in- aplears to be used with stems of more than one syllable, the alternate form being used chiefly, but not exclusively, with one-syllable stems, E.g.

co'o-ti to sit co'opa'in-ti to sit first

'saratilto roast 'suipa'in-ti to roast first

'pi-ti to eat pi'pan-ti to eat first

hni-ti to walk ni'pan-ti to walk first

4.21. } tan- appears to convey the idea of <u>right</u> now, and to be used in imperative constructions only, e.g.

'bi-ti to get, grasp bi'tan get (it) right now!
'kwan-ti to go kwan'tan go right now!

5 Inflection in Single Verb Words

Inflection may be shown by suffixation and by suprasegmental features. Tense-aspect and person of the subject are thus indicated. There are simple forms, consisting of only one word, and complex forms, in which the verb thought is contained in a verb phrase consisting of two words. These will be described respectively as verb words and verb phrases. This section deals with inflectional forms in verb words.

5.1 Inside layer of inflectional changes

- 5.1.1 Suffix -i added to the present-tense verb stem indicates simple present tense in the first and second persons. The present-tense stems are formed in the following manners:
- 5.1.1.1 The present- tense stem used in one-syllable morpheme stems, as in section 3.1.1, is the regular stem obtained by dropping the infinitive ending -ti, e.g.

'is-ti 🎁 see

'isi'(<u>I,you</u>) <u>see</u> 1 ...

'nan-ti to place

'nani" (I, you) place

'mī-ti to touch

'mīi" (<u>I, you</u>) touch

There are exceptions:

The t of the infinitive is retained in the presenttense stem of the following verbs:

'ku-ti to eat fruit 'kuti' (I, you) eat fruit

'kwa-ti to hear, understand 'kwati' (I, you) hear,

understand

'rī-ti to kill, knock 'rīti" (I, you) kill, knock down down

and also in

'kī-ti to wedge tightly 'šī-ti to smell

'pī-ti to take off 'šu-ti to order (clothing)

- 'pu-ti to throw out (garbage)
- 2) The t of the infinitive is retained but changes to an affricate c in the following:

'bici' (I, you) grasp, get 'bi-ti to grasp, get

'nici" (1, you) walk 'ni-ti to walk

3) The vowel changes from u to a to form the presenttense stem of

'u-ti to come

'ai"(I,you)come

5.1.1.2 The present-tense stem for two-syllable morpheme stems, in which the stress is on the second syllable, as in section 3.1.2, involves a supra-segmental change in the fe regular verb stem, the stress being shifted from the second to the first syllable. If the stem ends in anvunnasalized vowel, the t of the infinitive is retained for the present-tense stem, otherwise it is dropped. The n is retained when present in the infinitive stem. E.g.

a'ma-ti to step on 'amati" (I, you) step on (some(something) thing)

?i'a-ti to carry over '?iati" (I, you) carry over
one's shoulder

&i'bi-ti to steer (canoe)'&ibiti" (I, you) steer
na'i\u00e3-ti to scrape off 'nai\u00e3i" (I, you) scrape off
?i'nan-ti to give '?inani" (I, you) give
u'in-ti to breathe 'uini" (I, you) breathe

5.1.1.3 The present-tense stem for two-syllable verb stems of one morpheme, in which the atress is on the first syllable, as in section 3.1.3, is the regular stem formed by dropping the infinitive ending -ti, e.g.

/ 'ina-ti to row 'inai" (I, you) row
'naī-ti to cultivate 'naīi" (I, you) cultivate
'bana-ti to talk 'banai" (I? you) talk

5.1.1.4 The present-tense stem for primary-derived verb stems, as in section 3.2.1, is formed by dropping the infinitive ending -ti, e.g.

bu'aka-ti to fill bu'akai" (I, you) fill plaski-ti to appear plaskii" (I, you) appear

5.1.1.5 The present-tense stem forms for secondary-derived verbs of section 3.2.2 are as follows:

In those stems formed by prefixation, as in section 3.2.2.1, the present-tense form of the main part of the verb is retained, e.g.

'šīmī-ti to shell corn 'šīmīi" (I, you) shell corn mī'biski-ti to cut oneself mī'biskii" (I, you) cut...

In suffixation, forms -ki- and -a- drop the t from the infinitive, and ki- forms retain it, e.g.

u'piki-ti to be pretty u'piki;"(I,you)am, are pretty
'sipu'a-ti to put in jail 'sipu'ai" (I,you)putiin jail
'nipakī-ti to fall 'nipakīti" (I,you) fall

'minio'ka-t; to armore 'minio kat; (i, vom) arrange my (rour) 5.1.1.6 Compound verb forms seem to follow the pattern of the final verb constituent, for the present tense stem, e.g.

?i'abu'in-ti to carry ?i'a'buini" (I, you) carry ###/
along over one's shoulder over shoulder
u'pio-ti to make pretty u'pioi" (I, you) make pretty

5.1.1.7 In the derived forms of section 4, the t of the infinitive is retained in the present-tense stem when the suffixes are of one stressed syllable, and also with suffixes -i'ši-, -'kasma' used transitively, -'bai- and -'ratu-. The others drop the toof the infinitive ending. E.g.

bu'aru-ti to lift up bu'arui' (I, you) lift up
bi'ubu-ti to be in tears bi'uhuti" (I, you) am, are in tears
bu'ampa-ti to carry down bu'ampatin (I, you) carry down

'sina'nati" (I, YWW) repent 'sina'na-ti to repent ?u'namii"(I, you) teach ?u'nami-ti to teach co'o'išiti (I, you) just sit co'oi'ši-ti to be just sitting a'baira-ti to run well a'bairain (I, you) run well 'k^Waru'kasma-ti <u>not to</u> 'kWaru'kasmai' (I, you)can go be able to go up(stream) up(stream) *kWa'kasma-ti not to be kWa'kasmatin(I, you) can not able to hear hear ra'kWīšun-ti to irighten ra'kWīšunin (I, you) frighten '?arutī kīn-ti to cook '?aru'tīkīni' (I, you) cook again again mia nan-ti to touch, hit, mi anani (1, you, nit each each other a'baki'an-ti to go runeina'ba'kiani (I, you) go running ning 'pibi'an-ti to go eat- 'pibiani'(I, you) go eating ing pa'nī-ti to do at night 'panīti' (I, you) eat at night bī'nī'k watini (I, you) come bInnIk wa'tin-ti to come hurrying hurrying ' čakabricinititocoome 'čuka' bīcini' (I, you) come from washing(squething) from washing (something) a'ba'baiti (I, you) run a a'ba'bai-ti to wun a long time long time #1 10 pt a'bapuni' (I, you) ran this morning ?i'kan-ti the others to '?ikan' the others are here be here

'?aruki'in-ti to help '?arukiini(I,you)help cook cook 'nikini" (I, you)help walk 'nikin-ti to help walk 'maï'racu-ti to sweep 'mai'racuti' (<u>I, you</u>) sweep a little a little 'naši'cia (I, you) also can (Anaśi-ti to bathe) bathe co'opa'in-ti to sit co'o'painih (I, you) sit first first pi'pan-ti to eat first 'pipani" (I, you) eat first

5.1.2 Suffix -i, added to the present-tense stems as given in sections 5.1.1, is used in the third person of verbs, e.g.

'is-ti to see 'isf'(he) sees
a'ba-ti to run 'abatí'(he) runs
'?aru-ti to cook '?aruí'(he) cooks

Exception:

The third person form of the verb to be is 'ikī, which seems to have no appearance of regularity. It is the only such irregularity found thus far in our study.

5.1.3 Suffix 'ia is added to the present-tense stems to indicate present-progressive time-aspect, in the third person only, e.g.

'kahni'ia (he) is growing

kwa'bu-ti to go down 'kwabutia (he) is going

(stream) down(stream)

'ku-ti to eat fruit 'kutia (he) is eating fruit

5.1.4 Suffix -a is added to the regular verb stem (formed by dropping the -ti ending from the infinitive) to indicate immediate past, in the first and second persons, e.g.

?u'nan-ti to learn, know ?u'naa" (I, you) learned, knew 'is-ti to see 'isa (I, you) saw

5.1.5 Suffix-ton is added to the regular verb stem to indicate past-of-yesterday, in the first and second persons, e.g.

a'ba-ti to run

abbotono"

'pi-ti to eat

pi ono"

5.1.6 Suffix -fight added to the regular verb stem to indicate time-betweenyyesterday and a long time ago, in the first and second persons, e.g.

is-ti to see

'isīšac(<u>I,you</u>) saw

a'ba-ti to run

a'baī'šai(1,you) ran

'čuka-ti to wash

'čukaī'šak(1, you) washed

5.1.7 Suffix -akT is added to the regular verb stem to indicate time long past, in the first and second persons, e.g.

u'bu-ti to come down

u'buakī (I, you) came down

(river)

a long time ago

'u-ti to come

'waki (I, you) came a long

time ago

'bi-ti to bring

'blaki (I, you) brought

a long time ago

5.1.8 Suffix -kiⁿ added to the regular verb stem seems to indicate time-long-past, extending over a period of time, in the first and second persons, e.g.

 k^{W} I'In-ti to like k^{W} I'Inki (I, you) used to like

5.1.9 Suffix -kiⁿ is used in the foregoing tense in the third preson, e.g.

a'ba-ti to run

a'bakí (he) used to run

5:2000 Suffix-inu is added to the regular stem to indicate to be going to, in the first, second and third persons, e.g. co'o-ti to sit co'o'nu (I, you, he) am, are, is

going to sit

'bari-ti to look for 'bari'nu' (I? you, he) am, are, is going to look for

'ka-ti to speak, say ka'nu'' (I, you, he) am, are, is going to speak

5.1.11 Final consonant, with stress on the final syllable of the verb, indicates imperative mood in the second person. In verbs whose stems end with a vowel, the t of the infinitive is retained, but unreleased. In verbs whose stemsends with a consonant there is no further ending for the imperative form. E.g.

':a-ti to do

'?at <u>**go**(it)</u>!

'is-ti to see

'is See!

- 5.2 Outside or second layer of inflectional forms
- 5.2.1 Suffix -\$i^follows suffixes -a, -ion; -ī'ṣa'a' and -akī of sections 5.1.4 to 5.1.7, to indicate the third person in the respective tenses, e.g.

 ?u'nan-ti to know, learn ?u'naăşî" (he) learned just now

 a'ba-ti to run
 a'bo'o *şî" (he) ran yesterday

 'is-ti to see
 'isî'şanşî" (he) saw the other

day

time ago

time ago

7.2.2 Sullix -sa may replace the foregoing suffix, Aand so of could possibly indicate action or state continued for some time. E.g.

a'ba-ti +0

a'ba-ti to run

a'bai'sansa (he) ran, was running the other day

'ku-ti to eat fruit

ku'onsa (he) ate, was eating

fruit the other day yesterday

5.2.3 Suffix -ma follows suffix -i of section 5.1.1 to indicate the negative of the present tense in the first and second persons, e.g.

'k^Wan-ti to go

'k wanima (<u>I, you</u>) do not go

a'ba-ti to run

'abatima (I, you) do not run

?u'nan-ti to know

'?unanima (I, you) do not know

Suffix -ma may also follow suffix -i of section 5.1.2 to indicate the negative of the present tense in the third person, However, here the suffix seems to cause a pe perturbing of the stress pattern in the word as a whole, causing the stress to fall on alternate syllables. E.g.

> 'kWani'ma (he) does not go 'aba'tima (he) does not run

'?una'nima (he) does not know

5.2.4 Suffix -minfollows suffix -inof section 5.1.2 to indicate the negative of the present tense in the third person. This form is used much more frequently than the -ma form of the previous section. E.g.

'kwanimi' (he) does not go
'abatimi' (he) does not run
'?unanimi' (he) does not know

Suffix -mi^malso follows suffixes *kiⁿ and -kiⁿ of sections 5.1.8 and 5.1.9, to indicate the negative for this tense in all three persons. The form appears to be the same for all three persons, the non-high tone of the -ki suffix for first and second persons becoming assimilated to high tone. E.g.

kWI'In-ti to like kWI'Inkimin(I, you, he) do, does not like

6 Inflection in Verb Phrases

verb phrases are composed of some form of the main

verb plus some form of the verb to be or of the verb to do

the verb to be appears to have two forms 17; the

present tense, '?ai, indicating state and '?ii, indicating location's forms of the perfect participle for the main verb

- 6.1.1 Perfect participle plus to be
- 6.1.1.1 The simple perfect participle plus the present tense form of to be forms the present passive verb phrase, e.g.

?u'nami-ti to teach ?u'namikī /?aiⁿ(<u>I,you</u>) <u>am, are taught</u>
'is-ti <u>to see</u> 'iskī ?ikī (<u>he</u>) <u>is seen</u>

6.1.1.2 The simple perfect participle plus the immediate past tense form of the verb to be forms the immediate-past passive verb phrase, e.g.

'mapu-ti to cover 'mapukī' '?iaší' (it) was just covered

kînu-ti to finish

'kīnukī '?iaši''(<u>it) was just</u> finished

6.1.1.3 The past-of-yesterday participle plus the presenttense form of to be forms the past-of-yesterday passive verb phrase, e.g.

'bi-ti to grasp, get bi'onkî ?ikî (it) was gotten yesterday

o.1.1.4 The perfect participle of time between yesterday and time long past, plus the present tense form of to be forms the time-between-yesterday-and-long-past passive verb phrase, e.g.

?i'bin-ti to frighten ?i'biīn' šankī ?ikī (he) was Shipaway frightened away the other day

6.1.1.5 The time-long-past passive verb phrase might be f fitted in here better than elsewhere, although on a theoretical basis. The stem of the main verb is suffixed by -a, which could be a shortened form of a theoretical participle suffix, -akīkī. E.g.

'bi-ti to grasp, get 'bia ?ikī (it) was gotten a long time ago

6.1.2 Negative perfect participle plus to be

The negative forms of the perfect participles followed by the present tense of to be gives, in the active voice, the negative past-tense forms. The particular past tense is indicated by the form of the perfect participle.

Present perfect, negative,

'ankī-ti to finish

'ankīkīma ?ai' (I, you) have not finished, or did not finish

etc.

a'ba-ti to run

a'bakîma ?ikî (he) has not run, or, did not run

Past-of-yesterday, negative,

a'bo'o'kîma ?ikî (he) did not run yesterday

Past of time-between-yesterday-and-long-past, negative, a'baï'şankīma ?ikī (he) did

not run the other day

Time-long-past, negative, (irregular, as in section 6.1.1.5)

'ankTama /kThydpa/?ikT (he) dod not

finish a long time ago

6.2 Verb Phrases formed with the infinitive of the main verb

6.2.1 Infinitive plus to be

The infinitive followed by some tense of the verb to be indicates potentiality. The particular tense is indicated by the tense of to be. E.g.

This form may also be interpreted as expressing future time, e.g.

'ka-ti to say
'kwan-ti to go

'kati ?ai" (I, you) shall say
'kWanti ?ik (he) wild say

6.2.2 Negative infinitive plus to be

This combination indicates negative potentiality. The present tense is most common, but other tenses may be used, indicated by various tenses of to be. E.g.

'k^wan-ti <u>to go</u>

'kWantima ?ai" (I, you) can-

not go

'?a-ti to do, make

'?atima ?ai⁷(<u>I,you</u>) <u>cannot</u> <u>do</u>(it)

An alternate form for negative potentiality will have been noted in section 4.6.

6.2.3 Infinitive suffixed by -bi plus tolbe ('2i-ti)
(7, form)

The infinitive partitived by somentense of the verb '?i-ti to be indicates must, ought, should, or wish that...might. The particular tense is indicated by the tense of to be. E.g.

'ñu'mī'tibi (ka# ?íí (he) ought to or must work
pīš'ku'tibi (kamina) ?i/ may)(you) be better

'isti'bi (ka) '?iasí' (he) ought to have seen

'?ušti'bi (kana) ?ir(I) ought to sleep

'kWanti'bi (kana) '?iakī (I) shouldthawe gone long ago

- 6.3 Verb phrases formed with the present tense of the mat main verb
- 6.3.1 Present tense plus to be (?:-ti-) (?;; orm)

The present tense form of the main verb followed by some tense of the verb to be 'liti indicates progressive action. The time of the whole verb phrase is indicated by the tense form of to be. The verb phrases are as follows:

Present progressive

pa'ran-ti to fool (someone)

'parani ?ii"(I, you) am, are fooling (someone)

Immediate-past progressive

'čuka-ti to wash

'čukai ?ia (I, you) was, were washing just now

Past-of-yesterday progressve abati ?i'onsin(he) was

ressive

running yesterday

a'ba-ti to run

terday-and-long-pastprogressive

Past-ofitime-between-yes- 'abati '?ii'sasi (he) was running the other day

Time-long-past progressive

'abati '?ia'kīší''(he) was running long ago

6.3.2 Negative of present tense plus some form of the verb to be to ti (?; nform)

This combination is used to express, in the active

voice, the negative past tense forms. The particular past time is indicated by the form of the verb to be. E.g.

a'ba-ti to rum

'abatima ?ia (<u>I, you</u>) <u>did not</u>

run just now

'bi-ti to grasp, get

'bicima ?i'o" (I, you) did not get yesterday

'abatima '?iişaa (I, you) did not run the other day

'abatima '?iakī (<u>I,you</u>) <u>did</u> M

not run a long time ago

In form, these phrases parallel those given in the preceding section, and it seems logical that they should contain the progressive idea, also. The negative past tense f forms of section 6.1.2 will have been noted.

6.333 Present tense suffixed by -bi, plus some tense of

This combination indicates being ready to do something right now, or to be on the point of doing something. (Suffix -bi is used elsewhere also to indicate right away or right here.) The particular tense is indicated by the tense of to be.

a'ba-ti to run

'abatibi ?in (I, you) am, are ready to run

'abatibi ?i'onsin(he) was ready to run yesterday

'abatiba '?ia'kīší' he) was ready to run a long time ago

'abatibi ka '?ii'šāāi' k

- 6.4 Verb phrases formed with the progressive participle of the main verb #?
- 6.4.1 Negativized progressive participle of -šun form, plus the imperative form of the verb to do

This type of phrase gives the negative imperative form for transitive verbs, e.g.

pa'ran-ti to fool (some- pa'ran suma ka !?at Do one)

not fool (someone)

'?aru-ti to cook

'?arusuma ka '?at Do not cook

6.4.2 Negativized progressive participle of - form, plus the imperative form of the merb 'liti to be

This gives the negative imperative form for intransitive veros, e.g.

'naši-ti to bathe 'naši'ašma ka '?it

Do not bathe

Do not bathe
a'baa§ma ka '?it Do
not run

a'ba-ti to run

6.5 Negativized -ki form of the main verb plus the imperative of to do. (This does not seem to be the -ki form of time-long-past, as in section 5.1.8, but rather a -ki form such as is used in dependent verb forms.)

This is another type of negative command, e.g.

'is-ti to see

is'kima ka '?at <u>Do it</u> without looking

- 6.6 Verb phrases with -nuⁿ form of the main verb (as in section 5.1.9, minus stress)
- 6.6.1 Stem plus $n nu^n$ plus the imperative of to do conveys the idea of let us ..., e.g.

'bari-ti to look for 'barinum ka '?at Let us look for

'naši-ti to bathe 'našinunka '?at let us bathe

(Literally, this could be, I am going to look; do it: and I am going to bathe; be it:)

6.0.2 Stem plus -nuⁿ plus -ma plus imperative of to be

This seems to be a deferential way of giving a command, e.g.

'baka-ti to open (box, etc.) 'baka'numa ka '?i'*Please
open (the box)

?i'nan-ti to give ?i'nanuma ka '?i'Please give...

Here the usual unreleased t of imperative forms never seems to be present.

FOOTNOTES

2 The phonemes are: stops, p,t,k,k^w,?; affricated stops, c,č; fricatves, b, s š, š; nasals, m,n,n; vibrant r; vowels, i, e,a,I,u, o and the nasalized counterparts, iⁿ, eⁿ, aⁿ, Iⁿ, uⁿ, oⁿ/. The two fatter vowels are mid rounded back vowels, close and open respectively.

Low dot indicates symable division.

3 Since we wish to call attention to the stems, the infinitives ending -ti is separated from the stem by a hyphen. Verb stems alone do not occur as words.

4 Verb stems do not occur as word forms alone. However they are termed "free" in this paper when inflectional forms may be added to them without further change or additions.

5 Of these long-stem verbs a list is given here. Transitive verbs:

'?ara'ka-ti to possess
a'baba'ka-ti to warble
'bîa'ra-ti to surround
bî'ka'šaru-ti to tie in
knots

bī'sīna-ti <u>to smoke</u> (meat)

'bīcuku'ka-ti to kiss

'čikihalttito testify, declare

'čina'mī-ti to wrinkle (cloth)

'mīkama-ti to steal

'nuipa-ti to love, do good

'papa'kī-ti to pierce hole

in ear

'rīčio-ti to tie together,

join

ta'aškī-ti to wind

tananun-ti to tie with

ribbon

Transitive verus:
?a'tišanki-ti to sneeze

?uš'kīntīn-ti to keep watch at night

'rantipu'run-ti to kneel 'bîna'mî-ti to be cloudy 'bïnu'nan-ti to be overripe ra'rama-ti to be careless 'k"aina'kī-ti to turn 'raruma-ti to weep for around the dead kWT insa-ti to harm the body, rasuku-ti flesh to spoil make oneself ill ra'šutu-ti to be very cold k^{W} I'manuku-ti to make a 'riu'ku-ti to sift down ? mistake 'taramī'kību-ti to come down 'mapīra'kī-ti to ascend a hill a hill pī'kara-ti to rise (the sun) 'tīkīrīki-ti to tie 'papura-ti tu'bīru-ti to be covered with 'nirak"-ti to arrive on foot vegetation 'nanipa'kī-ti to give birth cī'ciru-ti to be muddy 'pîkkî'rakî-ti <u>to tumn over</u> 'uina'kī-ti to rest 'mina'rîrîki-ti to sift down 'unu'mî-ti to burn oneself

6. There is no distinction in the verb forms to indicate number or gender. In the examples, the English pronouns are placed in parenthesis to indicate the person of the verb.

7 The simple perfect participle is formed from the regular verb stem plus the perfect participle ending -kī. The particular time element is introduced into perfect participle endings by placing before -kī the time-element morphemes, -'on, -ī'ṣan -akī, given in sections 5.1.5 to 5.1.7. Thus the following perfect participle forms appear:

Bazkketi to say terr

'kikī said, told

'?aru-ti to cook

#maru-ti to buy, sell

'?arukī cooked

'maru'onkī bought, sold yesterday 'is-ti to see 'is sanks seen the other day Only one occurrences of the time-long-past participle has been found,

'kani-ti to grow

'kania'kīkī old

The perfect participle suffixes may be negativized by adding the negative suffix -ma, e.g.

'ank"-ti to finish

'ankīkīma <u>not finished</u>

etc.

- 8 The forms kana, (first person), kamina (second person), ka (third person) are indicative of the subject and the predicate, that is, they are dependent as to form upon both. Some one of the forms appears in almost all sentence constructions. They are separate from the verb words, but are inserted here because they regularly appear between the two verb words in constructions such as these. This is also the case in section 6 where they are inserted.
- 9 The simple progressive participle is formed from the regular verb stem to which is added suffix -\$\frac{s}{s}\cdot -\$\frac{s}{u}^n\) Suffix -\$\frac{s}{s}\cdot is used when the principal verb is intransitive, and suffix -\$\frac{s}{u}^n\] is used when the principal verb is transitive. These suffixes, like the perfect participle suffixes, may be preceded by the time-element morphemes; the intransitive form is always preceded by the immediate-past morpheme -a- if no other time-morpheme is used. Only the simple forms are used in this paper, e.g.

sī'buas on, while closing the hand 'bīsuṣun on, while waking co'oṣun on, while sitting

In verb phrases the form - fun is used with auxiliary verb to do, and - form is used with to be.

The progressive participles may be negativized by adding the negative suffix -ma, e.g. co'okuma or co'oaxma not sitting

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Verb Morphology of Cashibo (tentative description)

- l Phonomechanics and Morphophonemics
 - 2 Criteria of Verb Form Class
 - 3 Stem Formation
 - 3.1 Simple
 - 3.2 Complex
 - 4 Semantic Categories of Further Derivational Suffixes
 - 5 Inflection in Single Verb Words
 - 6 Inflection in Verb Phrases
 - 7 Notes

VERB MORPHOLOGY OF CASHIBO (tentative description)

- 1. Phonomechanics and Morphophonemics
- 1.1 Phonomechanics: A few phonological phonomena are universal in the language.
- 1.1.1 When /s/ is followed by /z/ there appears to be regressive assimilation and then reduction to only one phomeme /s/, e.g.
 is-zu-ma-ka-?at becomes i'suma ka '?at "Do not look"
- 1.1.2When /a/ is followed by/0/ or $\frac{10}{2}$ there is regressive assimilation, $\frac{1}{2}$ a/becoming /0/, e.g.

a'ba (stem for "run") plus -o (yesterday time-ending) becomes a'boo ...ran yesterday"

Sometimes the resulting cluster is reduced to one vowel. This is true in derived verb stems formed with the suffix -'oti, e.g.

cha'ba "wet" plus -'oti "to make" (bound form) becomes cha'boti "to make wet".

- 1.1.3 /\$/"preceded by /i/ becomes /i/, /\$/ followed by /o/ becomes /i/, e.g.

 ni- plus -\$\psi za\$ becomes 'niiza "...walked the other day"

 s\$\psi'r\$ plus -oti becomes s\$\psi'r\$'oti " to make crossed markings"
- 1.1.4. Word medial glottal stops do not occur. When two or more stems are united to form a compound or secondary derivative, all but initial glottal stops of the resultant complex form are dropped, e.g.

to hus ?i'kuti gives 'to i'kuti "to hug around the neck"

1.1.5. When nasalized vowels occur before stops or affricates (or word finally) the vowel loses part or all of its nasalization and a nasal consonant appears/m/ before bilabials, /n/ before alveolars and phometic /n/before velars, e.g.

'k anti "to go" 'k am' puni "... went this morning"

'kwan'ko'mak (kwan'ko'mak) "he didn't go"

'k a'zi "he went" ka 'k an "go!"

Word finally the change is optional, but is usually made.

.6 Before back rounded vowels, phoneme /k"/ loses its labialization, e.g.
k"a- (stem for "to go") plus -o (yesterday time-ending) becomes
'koo "...went yesterday"

The /a/ of the stem obviously is first assimilated to /o/, and then influences the $/k^{W}/$, reducing it to simply /k/.

We have found no occurrence in the language of /kW/ immediately preceding vowel /u/.

Fone vowel

Nasalization, usually carries over to continuous vowels, though arbitrarily.

1.2 Morphophonemics: The following phonological processes occur only in some.

verb forms.

1.2.1 The final vowel may be dropped or may fade into silence in the third-person suffix of past tenses, /-zi/, e.g.

'k azí "he went" may become 'k az, with a possible lengthening of the vowel /a/.

2 Criteria of Verb Form Class:

Verb-like words are determined by the criteria of form. They are words which occur with inflectional suffixation endings to indicate tense-aspect, and person of the subject.

3 Stem Formation

onding, -ti, is dropped, and the remaining stem is the verb stem. Section 1.2.1 applies in those infinitives in which the -ti ending is preceded by /n/. It is understood that the underlying stem contains a nasal vowel, whose nasalization appears here as /n/ before the -ti ending. Verb stems may also be obtained by dropping the -kø ending from the perfect participle form. In most examples of this paper the infinitive forms are given first.

Verb stems are of two classes, simple and complex. Simple stems are those

which are composed of one morpheme; complex stems contain more than one morpheme.

3.1 Simple stems are of one morphome, and may be of one syllable, of two syllables with stress on the second syllable, or of two syllables with stress on the first syllable.

3.1.1 Stems of one-syllable morphemes may be any one of these patterns:

V, CV, VC, CVC, e.g.
'u-ti' "to come" 'zø-ti "to smell"

tic_ti #to coeff this ti fits he

'is-ti "to see" 'niz-ti "to be disturbed"

3.1.2 Stems of two-syllable morphemes, with stress on the second syllable, are of these patterns: V'CV, V'CVC, V'VC, CV'V, CV'VC, CV'CV? CV'CVC, CVC'CV, CVC'CVC, e.g.

ø'chi-ti "to mash" ø'røn-ti "to light (something)"

u'in-ti "to breathe" chø'ø-ti "to mash"

ka'is-ti "to choose" bu'kø-ti "to tie"

chi'kiz-ti "to be lazy" bøz'ku-ti "to get well"

køz'kan-ti "to wabble"

It will be noted that some of these patterns are found only because of the appearance of a masal consonant before a stop, in place of a masalized stem-vowel, as explained in section 1.1.5.

3.1.3 Stems of two-syllable morphemes, with stress on the first syllable, are of these patterns: 'V.CV," 'VC.CV, 'CV,V, 'CV.CV, 'CV.CV, 'CV.CV, e.g.

'ina-ti "to row (a boat)" 'an.kø-ti "to finish"

'chi.a-ti "to stretch out (something)"

'?a.ru-ti "to cook" 'ni.kin-ti "to accompany"

" maz.ku-ti "to cut (hair)"

Section 1.1.5 applies here, too, as will have been noted.

3.1.4 A few simple verb stems are simply noun, adjective or adverb stems with verb derivational or inflectional endings added. These, then, become simple verb stems, and follow the patterns of stems as in sections 3.1.2 or 3.1.3 above. None have been found of pattern 3.1.1. E.g.

i'mg "night"
'uku "cough"

i'md-ti "night to be falling"

'uku-ti "to cough"

.2 Complex stems

Complex stems appear to be of three classes: primary derivatives, secondary derivatives and compounds.

3.2.1 Primary derived stems are composed of a one-morpheme stem, of one of the three types as in section 3.1, plus the bound morphemes -ka, or-ki. Thus far in our investigation, the stemsto which these suffixes are added appear to be bound. -ka is used in transitive verb forms, and -ki in transitive forms Often both morphemes may we used with the same stem, e.g.

'køki-ti "to call loudly" 'køka-ti "to call (someone) loudly"
tu'kanki+ti "@water)to be in waves"

mg'biski-ti "to cut one's hand"

to behead (someone)"

3.2.2 Secondary derived stems may be formed by the prefixation, or by the suffixation, of bound forms to the *free** stem.

3.2.2.1 Prefixation

3.2.2.1.1 The initial syllable of name words for body parts may be prefixed to verbs to convey the idea of the action having been performed on that part of the body, e.g.

maz8km "head" 'nga-ti "to tie" 'manga-ti "to tie one's head"

tg'za "neck" ?i'ku-ti "to hug" 'tgi'ku-ti "to hug around neck"

'babuzu "elbow" 'tazka-ti "to hit" ban'tazka-ti "to hit one's

elbow"

3.2.2.1.2 The initial syllable of other noun-words and of adverb words may be used as prefixes also, e.g.

'zaki "corn" 'zamatti "to shell corn"
ma'nami "high" ma'ni-ti "to stand on top"
'ma-ti "to touch"
'ni-ti "to stand"

.2.2.2.1 Verb-stem plus bound form -ng-

Suffix -nd- is added to verb stems to give the idea of "in the night",

e.g.

'?a-ti "to study, to do" '?anø-ti "to study at night"

ñu'no-ti "to smoke (meat)" ñu'nonø-ti "to smoke (meat) all night"

3.2.2.2.2. Adjective or noun plus verbalizer -ru-

kaz8ta *brownish yellow* kaz'taru-ti *to become ripe, yellowish*
'uzu *white* 'uzuru-ti *to become ripe, whitish*

3.2.2.2.3 Atjactive or noun, plus verbalizer -ki-

bdz8ba "fine, smooth" bdz'baraki-ti "to be fine in texture"
u'pi "pretty" u'piki-ti "to be pretty"
'pdiaua'puru "aeroplane" 'pdiaua'puruki-ti "to be an aeroplane"

There may be more than one layer of immediate constituents, e.g.

'?a-(stem for "to do"), -kø-(past participle suffix), -sa postposition
used as "like"or "as")

'?akøsaki)ti "to be as it was done before" or "to be like done"
'baka "river" 'bakami "in, under, the river"
'bakami'ki-ti "to drown" or "to be in or under the river"

3.2.2.4 Noun or attributive stems verbalized by -o-ti, a bound form having the significance of *to make*. e.g.

'zara "tar, pitch" 'zarao-ti "to burn to make tar or pitch"
i'tsis "hot" i'tsiso-ti "to make hot"
u'pi "pretty" u'pio-ti "to make pretty"

There may be more than one layer of immediate constituents, e.g.
'kata "layer", ga'bo "two" 'katarabo-ti "to make in two layerso"
or "to twist into rope"

3.2.2.2.5 -ka- and -kø- are used rarely with free forms, e.g.

ra'iz-ti "to scrape" ra'izka-ti "to slide, to slip"

ni'pa-ti "to drop, knock down" 'nipakø-ti "to fall"

3.2.3 Compounds are of fur groups according to form-class of immediate constituents.

*2.3.1 Compounds formed by combining different verb etems: Two or more *free* stems may be combined to form a compound stem, e.g.

(tao-ti "to sit upright" 'na-ti "to place" 'tsona-ti "to set upright" upright"

'kwai-ti "to play" 'ni-ti "to walk" 'kwaini-ti "to go playing"

3.2.3.2 Other compounds are formed by noun-plus-verb combinations, e.g.

nu "things"'bi-ti "to pick up"'nubi-ti 2 to owe"'zua "itching"'mg-ti "to touch"'zua'mg-ti "to scratch"nu "things"'mg-ti "to touch"'nu'mg-ti "to work"'kata "layer"'ni-ti "to stand, throw"'kata'ni-ti "to tie in layers"

3.2.3.3 Compound stems are also formed by reduplication of a simple verb stem. They express action continued a long time, or done over and over again. E.g.

køz'kan-køz'kan-ti "to bø thinking and thinking" table)"

'?iba-'?iba-'?iba-ti "to be falling and falling (rain)"

- 3.3 Stems of more than three syllables:
- 3.3 Some verbs, comparatively few, may be of three or more syllables, other than those types indicated under derived and compound forms. Further investig gation may enable us to classify them under types already given, or to form new sections for the derived forms. From the general pattern it would seem that these must be derived rather than simple stems.

3.4 Transitive and Intransitive Categories

All the foregoing methods of stem formation apply equally to transitive and intransitive verbs. Transitive verbs in Cashibo are those in which she action is carried across to an object; Therebject may be stated or implied. That is, the quality of the verb is potentially transitive. Intransitive verbs are those not able to take an object. There are few differences in the formation of transitive and intransitive verbs in their stems, and derivational and inflectional layers. The forms of section 3.2.1 will have been noted; for inflectional differences see sections 6.6.1 and 6.6.2.

However, when a verb concept may be potentially both transitive and intransitive, a difference of stress-pitch is made in the verb stem: the stress-pitch feature occurs on the second syllable in intransitive stems, and on the first syllable in transitive stems, e.g.

Intransitive:

Transitive:

i'nu-ti "to pass"

ma'nu-ti "to forget"

u'ng-ti "to hide oneself"

'inu-ti "to pass(something)"

'manu-ti "to forget (something)"

'und-ti "to hide (something)"

About twelve examples he these contrasting patterns have been found.

Though stress-pitch changes are regular in the above, it does not follow that these patterns are mutually exclusive for transitive and intransitive forms. The patterns in general, as given in sections 3.1.1, to 3.1.4 may be transitive or intransitive.

A few examples of another contrasting pattern have been observed, which may be typical of others. The intransitive form 'zua-ti "to scratch" becomes zu'an-ti "to scratch (someone else)" in the transitive form.

4 Secondary derived stems, continued -

SemaStic categories of further derivational suffixation

While the stemformations as described in section a are basic, other layers of suffixation may be added to these before the final outside purely-inflectional layers are added. These medial suffixes will be listed in semantic categories rather than in order of occurrence, since they do not occur in any fixed order. They are listed in the order heard most frequently. The suffixes are bound forms added to "free" stems.

- 4.1 -ru- indicates "up", as in 'k"aru-ti "to go upstream"
 'niru-ti "to stand up"
 'biru-ti "to pick up (something)"
- 4.2 -bu-indicates "down", as in 'k abu-ti "to go downstream"

 'banabu-ti "to be going down while talking

 ?i'bumi-ti "to put down"
- 4.3 -pa- seems to imply the intensifying of an action, or the addition of weight, e.g.

na'nompati "to embark (sinking the cance in the water)"
biiska'pa-ti "to mangle, cut in pieces"

'tuka'pa-ti "to cut in small pieces"

- 4.4. -mi- causative,

 ?u'nan-ti "to learn" ?u'nami-ti "to teach"

 'is-ti "te see" 'ismi-ti "to make one see, to show"

 bu'an-ti "to carry" bu'ami-ti "to send"
- 4.5 -ishi- expresses the idea of "just" or "only",

 4 tsoo-ti "to sit"

 5 tsoo'oi'shi-ti "to be just sitting"

 7 e-ti "to swallow"

 7 ei'shi-ti "to devour" or "to be just swallowing"
- 4.6 -'kasma- non-ability, "can not"

 'kwa-ti "to hear" kwa'kasma-ti "not to be able to hear"

 'bi-ti "to pick up" bi'kasma-ti "not to be able to pick up(something)

 'kwaru-ti "to go upstream" 'kwaru'kasma-ti "not to be able to go upstream
- 4.7 -zun- or -zu- altruitive, to do something for someone else,
 a'ba-ti "to run" a'bazun-ti 2to run for someone else"
 bu'an-ti "to carry" bu'azun-ti "to carry for someone else"

 ??aati-t2to do, make" ?a'zun-ti "to do(something)for someone else"
- 4.8 -toke- repetitive

 'u-ti "to come" 'ute'ke_ti "to come again"

 ?a'zun-ti "to do for semeone"

 ?a'zunte'ken-ti or '?ateke'zun-ti

 "to do (something) again for someone"
- 4.9 -a'nan- or -a'na- reciprocal "each other"

 'mg-ti "to touch"

 'mga'nan-ti "to touch each other"

 'is-ti "to see"

 i'sanan-ti "to see each other"
- 4.10 -bi'an- or }bi'a ambulatory, "while going", used with transitive verbs

ra'izka-ti "to slide" ra'iz'kabian-ti "to slide while going"
'?ø-ti "to leave" '?øbian-ti "to leave behind while going"
?1'ku-ti "to hug" ?i'kubi'an-ti "to hug while going" or
"to carry in arms"

4.11 -ki'an- or -ki'a ambulatory "while going", used with intransitive werbs

a'ba-ti "to run" a'baki'an-ti "to run, while going" ri'i-ti "to walk with others"

ri'iki'an-ti "to walk, going, with others"

4.12 -betsin- or -betsi ambulatory, to come while or after some other action is in progressime, used with transitive verbs,

'pi-ti "to eat" 'pibg'tsin-ti "to come while or after eating"
'?a-ti "to do, make" '?abg'tsin-ti "to come while or after doing"

4.13 -k atsin- or -k atsi- ambulatory, to come while or after some other action is in progress, used with intransitive verbs,

'k"ai-ti "to play, laugh" k"ai'k"atsini "...come playing"
'uz-ti "to sleep" 'uz'k"atsini "to come after sleeping", ar

- 4.14 -bai- continuative, to-day "for some time to-day"

 'ka-ti "to say"

 'kabai-ti "to say much to-day"

 'kabai-ti "to walk"

 ni'bai-ti "to walk much;"

 a'ba-ti "to run"

 a'babai-ti "to run much"
- 4.15 -'pun- or -pu time element, "this morning"

 'k"an-ti "to go"

 'k"ampuni "...go this morning" or "...went

 this morning"

 a'ba-ti "to run"

 a'baki'ampuni "...went running this morning"

 'ka-ti "to say"

 'kapuni "...said this morning"
- 4.16 -kan- or -ka gives a subject idea, "the others"

 a'ba-ti "to run" a'baki'am'pun'ka'ni "the others went running

 this morning"

 '?i-ti "to be,here;"or there" ?i'kan-ti "the others to be here"

 'chuka-ti "to wash" &chuka'kan-ti "the others to be washing(something)
- 4.17 -tan- or -ta- time element, "right now"

 'bi-ti "to pick up" bi'tan-ti "to pick up right now"

 'k an-ti "to go" k an'tan-ti "to go right now"

4.18

-pan- or -pa or -pa'i time element, "first"

'pi-ti "to eat" pi'pan-ti "to eat first"

'ni-ti "to walk" ni'pan-ti "to walk first"

5 Inflectional Suffixation and Inflectional Supra-segmental Change in single-word verbs;

Inflectional changes indicate tense-aspect and person of the subject. There are simple forms, consisting of only one word, and complex forms, in which the verb thought is contained in a verb phrase consisting of two words. These will be described respectively as verb words and verb phrases. This section deals with inflectional forms in verb words.

- 5.1 Inside layer of inflectional changes
- 5.1.1 Suffix -i with low pitch, added to the present-tense verb stem indicates simple present tense in first and second persons. The present-tense stems are formed in the following manners:
- 5.1.1.1 The present-tense stem used in one-syllable morpheme stems, as in section 3.1.1, is the regular stem obtained by dropping the infinitive ending -ti, e.g. 'is-ti "to see" 'isi "(I,you) see"

'nan-ti "to place" 'nani "I, You) place"

'mg-ti "to touch" 'mgi "(I, you) touch"

There are exceptions:

1) The "t" of the infinitive is retained in the present-tense stem of the following verbs:

'ku-ti "to eat fruit" (I, you) eat fruit"

'k"a-ti "to hear, understand" 'k"ati "(I, you) hear, understand"

'rø-ti "to kill, knock down" 'røti "(I, you) kill, knock down" and also in

'zø-ti "to smell" 'pø-ti

'pø-ti "to take off(clothing)"

'zu-ti "to order" 'tu-ti "to impregnate"

2 The "t" of the stem is retained but changes to an affricate "ts" in:

'bi-ti "to pick up".

'bitsi "(I,you) pick up"

'ni-ti "to walk" 'nitsi "(I, you) walk"

3) The vowel changes from "u" to "a" to form the present-tense stem of 'u-ti "to come" 'ai "(I, you) come"

5.1.1.2 The present-tense stem for all two-syllable morpheme stems, in which the stress is on the second syllable, as in section 3.1.2, involves a supra-segmental change in the regular verb stem, the stress being shifted from the second to the first syllable. If the stem ends in a vowel, the "t" of the infinitive is retained for the present-tense stem, e.g.

a'ma-ti "to step on (something)"

'amati "(I, you) step on (something)"

?i'a-ti "to carry over one's shoulder"

'?iati (I, you) carry over shoulder!

chi'bi-ti "to steer(canee) 'chibiti "(I, you) steer"

If the regular stem ends with a consonant, the "t" is not retained for the present-tense stem. The "n" is retained when present in the infinitive stem.

na'ish-ti "to scrape off" 'naishi "(I, you) scrape off"

?i'nan-ti "to give" '?inani "(I, you) give"

u'in-ti "to breathe" 'uini "(I, you) breathe"

5.1.1.3 The present-tense stem for two-syllable verb stems of one morpheme, in which the stress is on the first syllable, as in section 3.1.3, is the regular stem formed by dropping the infinitive ending "-ti", e.g.

'?ina-ti "to row" | 'inai "(I, you) row"

'køku-ti "to weave(baskets) 'køku<u>i</u> "(I,you) weave"

'chia-ti "to stretch" 'chiai "(I, you) stretch"

Only one occurrence of a stem of this stress pattern ending with a consonant has been found, and this is the n-before-t type. Its present-tense stem is formed by dropping the infinitive ending "-ti". This werb is

'nikin-ti "to accompany" 'nikini "(I, you) accompany"

2.1.4 The present tense stem for primary-derived verb stems, as in section 3.2.1 by dropping the infinitive ending "-ti", egg.

bu'aka-ti "to fill " bu'akai "(I, you) fill"

po'aski-ti "to appear" po'askii "(I, you) appear"

5.1.1.5 The present-tense stem forms for secondary-derived verbs of sections
3.2.2 present little difficulty.

are as follows

In those stems formed by prefixation; as in section 3.2.2.1, the presenttense form of the main part of the verb is retained, e.g.

'zơmơ-ti "to shell corn" 'zơmơi "(I, you) shell corn"
mợ'biski-ti "to cut oneself" mợ'biskii "(I, you) cut..."

In suffixation, forms -nø- and -kø- seem to retain the "t" of the infinitive, while -ru-,-ki-, -ka- and -o- forms do not, e.g.

'pinø-ti "to eat at night"
ni'pakø-ti "to fall"
'kish'taru-ti "to ripen"
u'piki-ti "to be pretty"
ra'izka-ti "to slip, skid"

'pingti "(I,you) eat at night"
ni'pakgti "(I,you) fall"
'kaish'tardi "(it) ripens"
u'pikii "(it) is pretty"
ra'izkai "(I,you) slide"

u'pio-ti "to make pretty"

5.1.6 In the derived forms of section if but partishing Rasma and bai-retain to inthe present-tonse stem, the others drop it. 5:1.7 Compound werb forms seem to follow the pattern of final constituent for prestonse 5.1.2 Suffix -i with high pitch (written -1) added to the present-tense stems as given in sections 5.1.1 is used in the third person of verbs, e.g.

'is-ti "to see" a'ba-ti "to run" '?aru-ti "to cook" 'isf "(he) sees"
'abatf "(he) sees"
'?aruf "(he) cooks"

Exception:

The third person form of the verb "to be" is 'ike, which seems to have no appearance of regularity. It is the only such irregularity found thus far in end our study.

5.1.3 Suffix -a or -a is added to the regular verb stem (formed by dropping the -ti ending from the infinitive) to indicate immediate past, in the first and second persons, e.g.

?u'nan-ti "to learn, know" ?u'nag "(I,you) learned, knew"
'is-ti "to see" 'isa "(I,you) saw"

5.1.1.6 (continued)

Examples of present tense forms:

to be(here)*

bu'arui "(I, you) lift up" bu'aru-ti "to lift up" bo bo'ubu-ti "to be in tears" bo'ubuti "(I, you)am, are, in tears" 'tuka'pati *(I, you) break in pieces* 'tuka'pa-ti "to break" ?u'namii "(I,you) teach" ?u'nami-ti "to teach" tso'o'ishi-ti "to just sit down" tso'o'ishiti "(I, you) just sit down" k_wa'kasmati "(I, you)can not go" kwa'kasma-ti *to not be able to go ra'k øzuni "(I, you) frighten" ra'k dzun-ti "to frighten" 'utøkøni *(I, you) come again* 'utøkøn-ti "to come again" 'mga'nan-ti "to hit one another" 'mganani "(I, you)hit each other" 'pibiani "(I, you) go eating" 'pibi'an-ti "to go eating"

a'baki'an-ti "to go running" a'bakiani "(I,you) go running"

'?abø'tsin-ti *to come while '?abøtsini *(I,you)come while or after door or after doing*

bø'nøkwa'tsin-ti "to come bø'nø'kwatsini "(I, you) come hurrying" hurrying"

ni'bai-ti "to walk much" 'ni'baiti "(I, you) walk much"
a'bapuni "(I, you) ran this morning"

/// ?i'kan-ti "the others '?ikani "(you) others are (here)"

-ta not used in present tense principal construction inipan-ti "to walk first" 'nipani "(I, you) walk first"

5.1.4 Suffix -o is added to the regular verb stem to indicate past-of-yesterday in the first and second persons, e.g.

a'ba-ti "To run" a'boo "(I, you) ran yesterday"
na'cha-ti "to mash (banaras) na'choo "(I, you) mashed yesterday"

5.1.5 Suffix -\$\sigma za or -\$\sigma za^2\$ (the initial "\$\sigma "is sometimes slightly nasalized, thus there is free variation between phonemes \$\sigma \text{ and \$\sigma \$,\$ though the unnasalized form is more frequent) is added to the regular verb stem to indicate time-before yesterday, or "the other day", in the first and second persons, e.g.

'is-ti "to see" 'isøza "(I,you) saw"
a'ba-ti "to run" a'baø'za "(I,you) ran"

5.1.6 Suffix -ake (or -ake-- again, there, seems to be free variation between phonemes \neq and \neq) is added to the regular verb stem to indicate time long past, in the first and second persons, e.g.

u'bu-ti "to come down (river)" u'buakø "(I, you) went down (river)"
a long time ago"
'u-ti "to come" 'uakø "(I, you) came" a long time ago"
'bø-ti "to bring" 'bøakø "(I, you) brought a long time ago"

5.1.7. Suffix -ki may be added to the stem, and seems to indicate a past indefinite time. Perhaps the real significance of this suffix has not yet been discovered. Eventually its may where placed with the forms of section 41. The tone seems low except in the third person where it is high. E.g.

a'ba-ti "to run" a'bakí "(he) ran before"

5.1.8. Suffix -nú (unstressed with low tone in subordinate clause construction)

15 stressed with high tone in principal verbs, is added to the regular stem to convey the idea "to be going to", in the first, second and third persons.

a'ba-ti "to run" a'banú "(I, way) you are etc.) going to run" tso'o-ti "to sit down" tso'onú "(I am, you are etc.) going to sit down"

'bari-ti "to look for" 'baring "(I am, youare etc.)going to look for"

In regular stems of one syllable, the stress-high-pitch is taken from the stem and appears only on the suffix, e.g.

'?a-ti "to do "(something) ? ?a'nu "(I am etc.)going to do (something) "
'ka-ti "to speak, say" ka'nu "(I am etc.)going to speak"

5.1.9 Final consonant, with high pitch on the final syllable, indicates imperative mood in the second person. In verbs whose stems end with a vowel, the "t" of the infinitive is retained, but unreleased. In verbs whose stems end with a consonant, there is no further ending for the imperative form. E.g.

'?a-ti "to do" '?at "Bo (it)!"
'is-ti "to see" 'is "See!"

- 5.2 Outside or Second Layer of inflectional Suffixes
- 5.2.1 Suffix -zf follwos -a, -o,-øza and -akø of sections 5.1.4 to 5.1.7, to indicate the third person in the respective tenses, which are described in the above sections, e.g.

?u'nan-ti "to know, learn" ?u'nazf "(he) learned just now"
a'ba-ti "to run" a'boozf "(he) ran yesterday"
'is-ti "to see" 'isø'zazf "(he) saw the other day"
'?a-ti "to do, make" '?a'køzf "(he)did it a long time ago"

5.2.2 Suffix -ma (unstressed) may follow \underline{i} of section 5.1.1, to indicate the negative of the present tense in the first and second persons. The form $-\underline{i}$ loses its nasal quality. B.g.

'kwanima *(I,you) do not go"
a'ba-ti *to run* 'abatima *(I, you) do not run*
?u'nan-ti *to know* '?unanima *(I, you) do not know*

Suffix -ma may also follow $-\underline{\mathbf{f}}$ of section 5.1.2. The form $-\underline{\mathbf{f}}$ loses its nasal quality. The stress-tone feature of -ma seems to depend on the stress pattern of the whole word. This pattern changes from the present-tense pattern of section 5.1.2, into a form in which stress-tone is placed on alternate syllables, e.g.

'kwani'ma "(he) does not go"
'aba'tiwa "(he) does not run"
'?una'nima "(he) does not know"

5.2.3 Suffix $-m\underline{f}$ is added to the third person present-tense suffix $-\underline{i}$ as in section 5.1.2, to negativize the verb. This form is used more often than the third person -ma-form of section 5.2.2. The suffix $-\underline{i}$ loses its nasalization.

'k animi "(he) does not go"

'abatimi "(he) does not run"
'?unanimi "(he) does not know"

6 Inflectional Forms in Verb Phrases

Verb phrases are composed of some form of the main verb plus the auxiliary verb "to be" or "to do".

- 6.1 Verb phrases formed with the perfect participle:

 (see note 2 as to formation and forms of perfect participles)
- 6.1.1 Perfect participle plus "to be"
- 6.1.1.1The simple perfect participle plus the present tense form of "to be" forms the present passive verb phrase, e.g.

?u'nami-ti Tto teach" ?u'namikø ?ai "(Iam, you are)taught" 'is-ti "to see" 'iskø '?ikø "(he) is seen"

perfect
6.1.1.2 The simple participle plus the immediate past of the verb "to be"
forms the immediate-past passive, e.g.

'mapu-ti "to cover" 'mapukø '?iazí "(it)was just covered" 'køñu-ti "to finish" 'køñukø '?iazí "(it)was just finished"

6.1.1.3 The past-of -yesterday participle plus the present-tense form of "to be" forms the past-of-yesterday passive verb phrase, e.g.

'maru-ti "to buy, sell" 'maruonkø '?ikø "(it)was bought, sold, yesterday"

6.1.1.4 The perfect participle of time_between_yesterday_and_long_past, plus the present tense form of "to be" forms the time-between-yesterday-and -long-past passive verb phrase, e.g.

?i'bin-ti "to frighten away" ?i'bigzankø '?ikø "(he)was frightened away the other day"

6.1.1.5 The time-of-long-ago passive verb phrase might be fitted in here better than elsewhere, although on a theoretic, basis. The stem of the main verb is suffixed by -a, which could be a shortened form of a theoretical participle suffix, -akoko E.g.

'maru-ti "to buy, sell" 'marua '?ikø "(it) was bought ma long time, or many years, ago"

6.1.2 Negative perfect participle plus "to be"

The negative forms of the perfect participles followed by the present tense of "to be" gives, in the active voice, the negative past tense forms. The particular past tense is indicated by the form of the perfect participle.

Present perfect

'kønu-ti

'kønukøma ?ai "(I, you) have not finished, "
or "did not finish"

a'ba-ti "to run"

a'bakoma ?iko "(He) did not run" or "has not run"

Past of yesterday

a'book@ma ?ik@ *(He) did not run yesterday*

Past-of between yesterday and time long ago

a'bag'zankoma ?iko "(He) did not run the other day";"

Time-long-past

(*irregular*, as in section 6.1.2)

'kønuama ?ikø "(He) did not finish a long time ago"

6.2 Infinitive plus *to be*

The infinitive followed by the present tense of "to be" indicates potentiality, in the present tense, e.g.

ra'anka-ti "to launch(boat)" ra'ankati ?ai "(I,you) can launch" shø'iki-ti "to whistle" shø'ikiti ?ikø "(He) can whistle"

This form may also be interpreted as expressing future time, e.g.
'ka-ti "to say"
'ka-ti "to go"

6.3 Present tense plus "to be"

The present tense form of the main verb followed by some tense of the verb *to be* indicates progressive action. The time of the whole verb phrase is indicated by the tense form of *to be* The verb phrases are as follows:

Present progressive

pa'ran-ti "to fool (someone)" 'parani

'parani ?i "(I, you)am, are fooling (someone) "

Immediate-past progressive

chukai ?ia *(I, you) was, were washing just now*

Past-of-yesterday progressive
a!ba-ti *to run*

'abati ?i'ozf "(He) was running yesterday"

Past-of-before-yesterday progressive

'abati ?iizaz (He) was running the other day" (see section)

Time-long-past progressive

'abati ?i'akøz<u>f</u> "(He)was running a long time ago"

6.4 Negative of present tense plus some form of verb "to be"

This combination is used to express, in the active voice, the negative past tense forms. The particular past time is indicated by the form of "to be".

'abatima ?ia "(I, you) did not run just now"

'maru-ti "to buy, sell" 'maruima ?i'oo "(I, you) did not buy, sell, yesterday"

'abatima '?iiza "(I, you)did not run the other day"

'abatima '?iakø "(I, you)did not run a long time

ago"

In form, these phrases parallel those given in the preceding section, and it seems logical that they should contain the "progressive" idea, also.

6.5 -ki form of werb (as in section 5.1.7) plus *to be*

This seems to indicate a past-progressive tense. The form is not used a great deal. E.g.

a'ba-ti "to run" a'baki ?i'zumpuni "(I,you)was (were) running for someone this morning"

6.6 Negativized stem plus imperative form of auxiliary verb "to be" or "to do"

This type of phrase gimes the negative imperative form. There are two types, those which are transitive and those which are intransitive.

6.6.1 To the transitive main verb is added suffix | zu and negative suffix -ma; this is followed by the imperative form of the verb "to do", as in section 5.1.9, e.g.

pa'ran-ti "to fool(someone)" pa'razuma ka 34 "Do not fool(someone)"
}aru-ti "to cook" paruzuma ka 34 "Do not cook"

- 6.6.2 To the intransitive main verb stem is added suffix -az- and negative suffix -ma; this is followed by the imperative form of the verb "to be" a bazzma ka ?it "Do not run"
- 6.7 Negativized -ki form of verb plus imperative of "to do".

This is another type of megative command, e.g.

'is-ti "to see" is'kima ka ?at "Do it without looking"

6.8 Stem plus -nu (as in section 5.1.8) plus imperative of "to do" conveys the idea of "Let us...", e.g.

'bari-ti "to look for" 'baring ka '?at "Let us look for (something)"

'nashi-ti "to bathe" 'nashing ka '?at "Let us bathe"

(Literally, this could be, "I am going to look; do it!" and "I am going to bathe; do it!")

6.9 Stem plus -nu plus -ma plus imperative of "to be"

This seems to be a deferential way of giving a command, e.g.
'baka-ti "to open (box, etc.)" 'baka'numa ka '?½ "Please open(the box)"
?i'nan-ti "to give" ?i'nanuma ka '?½ "Please give ..."

Notes

- 1 In examples where we wish to call attention to the stem, the infinitive ending -ti is separated from the stem by a hyphen. Verb stems alone do not occur as words.
- 2 Three exceptions have been found, in which the verb of -ka form is intransitive (as indicated by the subject forms, not given in this paper). The exceptions are:

'røra'ka-ti "to be fat"

'mga'ka-ti "to hit oneself with the hand"

'mgchu'ka-ti "to wash one's hands"

- 3 Verb stems do not occur as word forms alone. However they are termed "free" in this paper when inflectional forms may be added to them without further change or additions.
- 4 Of these long-stem verbs a list is given here for any who wish to investigate them:

Transitive verbs:

a'babaka-ti "to warble" 'nui'ba-ti "to do good, to love" 'rakana-ti bø'kazoru-ti "to tie in knots" "to clear the road or a path" 'bui'na-ti "to go around, look around" 'sipua-ti "to imprison" 'bea'ra-ti "to surround" 'tuiu-ti "to rub together with hands" bø'ru'an-ti bg'tgnan-ti "to dazzle" "to take care of" 'betsuku'ka-ti "to kiss" kø'kapun-ti "to hem" 'chikina-ti "to testify, declare" ko taran-ti "to hem" 'kamani'o-ti "to domineer" 'meka'ma-ti "to rob, steal" 'mgsi'u-ti "to make tamales" 'tañañun-ti "to tie with ribbon" 'ñukarata'bi'an-ti "to beg, entreat" ta'azkø-ti "to wind"

Intransitive verbs:

?uz'køntøn-ti "to keep watch" 'ramøni'oka-ti "to become fat"
am'pø'karu-ti "to light up(something)'rantipu'run-ti "to kneel"
a'tizanki-ti "to sneeze" 'raruma-ti "to weep for the dead"
'bøa'na-ti "to go ahead" 'razuku-ti "to have a chill"
'bøñu'nan-ti "to become everripe" 'riuku-ti "to sift down"
kø'isa-ti "to harm the body" 'taramø'købu-ti "to come down from a hill

'kdmd'kanan-ti "to blaspheme"

tu'beru-ti "to be covered with vegetation"

'mapera'ke-ti "to ascend a mountain" tu'tuan-ti "to dry in the sun"

'nanipa'kø-ti "to give birth"

tsø!tsiru-ti "to be muddy"

'nirako-ti "to arrive"

'uina'ko-ti "to rest"

'nu'kanan-ti "to quarrel"

'unu'mø-ti "to burn oneself"

'pønkø'rakø-ti "to turn around"

"zoobu-ti "to run (water)"

5 The rules for the placement of stress-pitch are obscure in some places, as in section 4.1,4 (page 9). However in general the patterns are regular and may be seen from the examples given. Rules may eventually be discovered, which will eliminate the necessity of writing this supra-segmental fat feature with eyery word.

6 There seems to be free variation between phoneme i and the unnasalized counterpart i . The masalized form, being more frequent, is adopted here for writing, but the masalization might well be omitted. This is also the case with suffix a of section 5.1.3 and -dza of section 5.1.5 . Perhaps eventually a rule may be postulated, that phrase-final vowels tend to become nasalized. Note lack of masalization in these endings phrase medially, in section 6.3.

7 There is no distinction in the verb forms to indicate number or gender. In the examples. English pronouns are placed in parenthesis to indicate the person of the verb.

The simple perfect participle is formed from the regular verb stem plus the perfect participle ending -kø. The particular time element is introduced into perfect participle endings by placing before -kø the time-element morphemes, o, øza, akø, given in sections 5.1.5 to 5.1.7. Thus the following perfect participle forms appear:

'ki-ti "to say, tell"

'kike "said, told"

'?aru-ti "to cook"

'?arukø "cooked"

i'bin-ti "to frighten away"

i'bionko "frightened away yesterday"

'is-ti *to see

'isezanke "seen the other day"

Only one occurrence of the time-long-past participle has been found -

'kani-ti "to grow"

'kania'køkø "old" 9gr (grown a long

time ago)

All of these perfect participles may be negativized by adding the negative suffix -ma, e.g.

'kønu-ti "to finish" 'Kønukøma white inished" etc.

- 9 The form ka used here is not part of the verb, but is a proclitic word, some form of which is used in nearly all sentence constructions. It is inserted here because it regularly appears between the two verb-words in imperimperative constructions such as this.
- 10 The irregular symbol & represents a high back unrounded vowel; underlining of the vowel indicates nasalization; z represents a retroflexed alveopalatal sibilant; 'signifies stress accompanied by high tone; 'signifies high tone not stressed; "marks syllable division.

3.2.1.1 Mant prefixes are obtained from body parte is a Some, quepies are tolained from names, he body, parts of the body, others dente position apart from the body, and still others are general, e.g. by - mu cother bin in a part on glasses that Sika heed -> ma - mu cother bin in a part on glasses banbu su ellow > ban-taskaof sold old sold manustille hat ti's a neck -> ti'- ?: 'Ku-hug 'ti' i'Ku-hug tohit one's elbon m'i'k; hand -> m'i rani - feathers, shin > ra-rapa su sido -> ra. 'm' mu - put on king > ra'm is - pluck feathers 1ta; faut -> tata su- put on shoes risinki- where a cold rilkin mene > ri-Kwii'ta ska- Lit . mouth pa'b; ear -> pa
na'm'i mide -> na-Munitara hern (literally ra' is - surape sides ma' i's - ecrape inside 1 - tsi'mi - stand behind, back tsi putu back, bottom -> 'Ka siu back -> ka- 'Kapiriki-agitate dousal fins

(Tisk)

Sika chest Si - 'Sipiriki-agitate ventral and

ma ma mi high -> ma ma'mi- stand ontop, test Kapiriki - agetale dousal fins ma'mi - stand on top, to 's i mi - shell com 15 ik: cour -> 5 !panu- puton slother /cupa dothes -> pa-