COHESION IN SEPIK INAM
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Cohesion in Sepik Iwam

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1. Introduction

Sepik Iwam is a Non-Austronesian language of the Birsi Stock of the Sepik Sub-Phylum of the Sepik-Ramu Phylum in Papua New Guinea (Laycock 1973:20)

In this paper, part of the set of nonstructural relationships which unite the various discourse constituents into a consider whole will be discussed. These relationships taken together are termed chobesion.

Grisses (1976:112 f) considers cohesion to be one of the three basic discourse relationships along with content and staging. For him, cohesion is primarily a relation between new and given information.

Halliday and Hasan consider cohesion to be the 'glue' which forms a group of sentences into a text and thus distinguishes them from a mare collection of sentences.

Cohesion in this study will be a slightly more general concept than either of the above and will follow the approach of Litteral (1980:243ff). Cohesion will include all types of cues which help to unify the discourse components into a whole unit. It will be discussed in terms of phonological, referential and semantic cohesion.

2. Phonological Cehesion

There are two basic types of intonation contours dependent and independent. Dependent intomation contours are defined by non-falling or level pitch. This type of contour is associated with items in a list (1) or Non-final clauses (2).

(1) PROC 03:2

41 <u>64-4r-8</u> 树 4na haigin nan day cl.4-one-f unm.th.subj cook And sago k-wo-wak-4m wratsu. hu. hab, 4t ha p.t-be-daytime-pl.top.p.t maat pig cassowary crocodile possum sarae-yim 4na y-ingugu sasae vegetables umm.th.subj found-pl.top.p.t and p. &-gather hai-yim get-p.1.top.p.t

Next day they cooked sago, they found meat, pig. cassowary, crocodile, possums and they gathered vegetables.

(2) ORAM 01:91 si-ya n-it-kiswo, pi y-ii-yin.

he-nom pres.indic-come-efc immed.gen.fut p.t-dig-m.sg.top.p.t

'If he had come, he would have dug it (the bird nest).!

These dependent intonation contours define corresponding information blocks and are cohesive in that they signal to the addressee that an information block so marked is closely related to the following information block.

Independent intonation contours (3), (4) are defined by a sustained falling intonation contour symbolized by 1.1. A slightly falling and then rising intonation contour symbolized by 1.1.

and a high falling contour with heavy stress symbolized by 1 ! 1.

Each of these contours is followed by pause. The information blocks defined by these contours are independent in the sense that there are no intonation contours that define a larger information block.

(3) PROC:03:3 dimu-k-in? Kiya: S-ir inkan hanin ik4 iyin Hey! he-obl like.this what person There drum yokaan bibiyie S=iT inkam - nan nrî s-ir he-obl he-obl sister kingroup person like and then han-1. s4m-ir-im bibiyie ad father kingroup they-obl-purp beat-n.pst 'What is the (message) of the drum? Hey! The sound/message is for each of his friends, his sisters and his aunts.'

(4) PROC:03:3 <u>Krim-a</u> <u>umir-ia</u> <u>pi</u> <u>hai</u> We-nom money-pl immed.gen.fut carry

pres.indic-go-n.pst Hey! what-purp carry pres.indic-go-n.pst

'He will carry money and go. "Hey! Why are (you) carrying it?"

3. Referential Cohesion

The three referential cohesive systems in Sepik Iwam are agreement, anaphoric reference, and cataphoric reference. The matter of exophoric (nonOtextual) reference, though very important, will not be considered in this study.

3.1 Agreement

7.32

7

Internal clause agreement consists of nominal topic and verb agreement in most of the past tenses.

(5) t-a hu-wa inkam-k-in niigro-ki-k-a.

near.dem-f-f.sg pig-feast person-act-m.sg shoot-displ.result-p.t-f.sg.top.g.

'As for tals pig, a man shot it and it went.'

Noun phrase agreement consists of agreement between demonstrative modifier and head noun, and between numeral modifier and head noun as in (5), (6), (7). There is also optional number-gender agreement between the affix-on the numeral and the head noun (8), (9).

(6) inkam m-4r-4n irim-ni niigro ao-ki-k-in,
person cl.5-one-m.sg arrow-inst shoot die-displ.res-p.t-m.sg.top.p.t

The state of the said

inkam mr-ir-in s-irperson cl.5-one-m.sg he-col-

*One wan shot another man with an arrow and he died. *

numeral prefix me. In addition, all nowns are classified masculine or feminine and therefore the numeral is further suffixed with -in 'masculine singular'.

- (7) wig <u>\$\phi\text{out-m\text{m}}\text{bidf}\text{y-am-ki-yim}\text{woman}\text{compl.p.t}\text{p.t-go-displ.result-pl.top.p.t}\text{'Three women went.'}</u>
- (8) T-4-k-4= inkam nu-4s-wo bidi y-am-wo near.dem-rm-neut-n person cl.5-two-dl have p.t-go-dl.top.p.t nimau.

 jungle
 'These two men have gone to the jungle.'
- (9) inkam nw-ir-in nimau n-am-k-4n.

 person cl.5-one.m.sg jungle pres.indic-go-return-m.sg.top.p.t

 One man went to the jungle.

Tense agreement is expressed through certain verbal affixes or replacing morphemes.

All verb stems beginning with n- in the present indicative have n-replaced by y- in the general past tense and n-replaced by \emptyset in the specific past tense. When this replaced by morpheme n-y-occurs, the verb is suffixed by the appropriate member of $\langle -a \rangle$ number-gender-past tense. The member of $\langle -a \rangle$ are -i masculine singular, o dual, $\langle a \rangle$ faminine changes also occur with all verb singular, -i plural. These same two stems beginning with n- in the present indicative when these verbs occur with all verb stems beginning with n- in the present indicative when these verbs occur has the past completive aspect using the preposed verbal particle bidi past tense completive. (8), (10). For verb stems not beginning with n, the occurrence of bidi past completive also agrees with suffixation by $\langle -a \rangle$.

b4d4 _ - am-4m (10) T-4 kam white-kak-in Cam-a compl.p.t p.t-go-pl.top.p.t near.dem-m many-have-pl they-nom men n-4t-in. nimau hu pres.indic-shoot-pl.top.p.t iungle pig 'Many of the men have gone to the jungle to shoot pigs."

Another type of internal clause agreement is the gender agreement between a noun phrase or a proper noun and this pronominal copy.

(11) XYZ 23 <u>Tob1</u> <u>siya</u> <u>4na</u> <u>kwiyae-y4n</u>.

Tobi he-nom unm.th.subj drink-m.sg.top.pr.t

'Tobi is drinking it.'

A type of intra-clause or intra-sentence agreement is the gender agreement between a noun phrase or proper name and the pronoun to which it refers.

(12) XYZ:5 ha nhinim kimidiniya haiwaoki Bob si-ya yani rep.pres get.up first Bob outside open he-nom hir-ar y-woke idowii~ya. ano-win m si-ya there-only p.t-stand be.outside-f.sg.top.p.t door-m.sq and he-nom *Having gotten up, first Bob opened the door and went out and stood there outside.

Discourse tense agreement occurs in procedual discourse. Discounting the discourse aperture and the closing, nearly every verb is in a future tense (13) which is realized by \underline{pa} 'future' or $\underline{p+1}$ 'immediate general future' and often also by a co-occurring suffix $\underline{-i}$ 'non-past' on the verb.

(13) PROC 07:1-13

Aperture:

- 1. <u>mimir mainwo-ni niwi-k-in.</u>
 sago pound-poss story-be-m.sg.top
- 2. <u>41 gw-fr</u> nafowaka niyar pa warkfn-qik-rib-i.
 day cl.5-one afternoon sago fut roll.up-return-afternoon-n.pst
- 3. ha warkin-gik-a pe whon-kao-wi rep.pres roll.up-return-of fut sleep-inside-night
- 4. 41 gg-4r nugak haka mainmo two-m4r-4m pa day cl.5-one morning lay.out pound black.palm-part-pl fut hai-nani.
 put-come

- 5. Ha hai-nani-ya, pa haigin-i pa kaibi rep.pres put-come-n.f fut put-n.pst fut split isiu-ki pa mainwo-kai. stand.up-displ.result fut pound-inside
- 6. <u>Ha mainmo-kai-ya</u>, <u>pa n-ino-kai-ki</u>
 rep.pr s pound-inside-n.f fut pres-indic-wash-inside-displ.result
- 7. n-ino-kai dig-1 mi pa hasmi-ki pres.indic-wash-inside finish-when and fut scoop-displ.result
- 8. Ed 11 gw-1r-a Ed p1 kwalgwo hal-1 and day cl.5-one-f.sg and incept leaf get-n.pst
- 9. kwaigno hai dig-i pa n-4t-rib-i
 lea@ get finish-when fut pres.indic-come-afternoon-m.pst
- 10. 41 ga-4r-a nan pa haigin-i day cl.5-one-f.sg sago fut boil-n.pst
- 11. P4 haigin dis-i. mi-pi n-onkwokwo
 immed.gen.fut beil finish-n.pst and-incept pres.indic-divide.out

 hai-gi cmaka ir-kak dig.
 put-displ.result house each-have finish

Closure

- 12. <u>nan haigin-i niwi-yin hirinan-k-in.</u>
 sago boil-poss story-m.sg that.all-be-m.sg.top.p.t
- 13. <u>ini</u> <u>dig</u> <u>y-wo-ki-vin</u>

 ma.th.subj finish p.t-be-displ.result-m.sg.top.p.t
- 1. 'This is a sage pounding story. 2. One day in the afternoon we will roll up the sage log. 3. Haiving rolled it up, we will sleep inside (the house). 4. The next day in the morning we get and put the black palm pieces and lay them out to pound (the sage). 5. Having put it, we will put it and split it and stand it up and will pound it inside. 6. Having pounded it inisde, we will wash it. 7. When the washing is finished, we will scoop off the water (inside the cance). 8. Then the next day we will get the leaves. 9. When we finish getting the leaves we will come back in the afternoon. 10. The next day we will holl the sage. 11. Then we

finish boiling it we will divide it out and put it each house. 12. That is all of the sage boiling story. 13. It is finished.

A type of intra clause (in some cases intra-sentence) agreement is the replacement of the unmarked thematic subject marker <u>ina</u> or the marked thematic subject marker <u>ini</u> by <u>ha</u> 'representative person'. Just in case the main verb or a close synonymm is repeated. Along with this feature is the adject cohesive feature of the repeated verb (lexical cohesion).

(14) XYZ±4-5: <u>Ha</u> 'repetitive present' is used instead of <u>ina</u> to mark the thematic subject because the verb stem <u>nhinim</u> 'get up' is repeated.

krim-a ina kwa-nhiniw. He nhiniw we-nem unm.th.subj nat-set.up rep.pres get.up

kimidiniya Bob si-ya yani haiwaoki ano-win mi si-ya hir-ar
first Bob he-nom outside open door-m.sg them he-nom there-only

y-wokwo idow41-ya

1.

p.t-stand outside-f.sg

'We got up. Having gotten up, Bob opened the door and went outside first and stood there outside.'

3.2 Anaphoric Reference

This type of cohesion involves a form in a text which is corsferential with a presupposed term that has occurred previously. Halliday and Hason (329) define the relationship between two such forms as a tie. Ties can be of three types: Immediate (in which the presupposed terms occurs in the immediately preceding clause.) Mediated (in which the preceding clause does not identify the item in question but contains another term that refers to this presupposed item.), or remote (in which the presupposed item does not occur in the clause nor can be reached by a referential chain. On the contrary, a number of clauses have intervened in which no reference is made to this presupposed item by the surface structure forms.

Anaphoric reference occurs in Sepik Iwam in the form of repetition, use of a proform, and by repeated verb (linkage), in which the final clause in one sentence is partially or wholly reverted, or is repeated using a close/synonymm.

Repetition occurs when the same lexical form is used to refer to a specific referent in successive grammatical constructions (often sentences). Repetition can be identical (11) wii 'bird' including a demonstrative (11) om 'village' or occurring in a construction with different grammatical forms.

A repetition of verbs may or may not be coreferential. In some cases (13) repeated verbs do not refer to the same event.

(13) XYZ 12:7

Marilin sae-yar y-wo mi ha swok4-k-wo-win B41-y4n again-p.t-steod-m.sg.top.p.t First-m.sq Marilyn she-only p.t-be then D. L pokuo-kai-na gokuo-kai-na si-ya swok-aka yaka m1 Bob Tob1 he-nom again-with stood-inside-? Tobi ezofa stand-inside than Rob mhofi-gf mhofi-ya kar-ar swok4-k-wo-w4a Ton mi ari ha again-p.t-stood-m.sg.top.p.t then later-? later-f I-only

y-wo-ki. Irik. p.t-be-displ.res that's.all

'First only Marilyn went then next Tobi came and stood close then Bob stood next then next was Tom then following last was me only.'

Linkage is fairly frequent in Sepik Iwam contemporary narrative text. It is quite frequent in procedural texts also. Usually the repeated verb will have ha 'repetitive present'.

(14) XYZ 1:4-5

Krim-a ina kwa-nbin-im. Ha nbin-im wa-ncm unm.th.subj nar-get.up-pl.top.p.t rep.pr gat.up-pl.top.p.t

Kimidiniya Bob si-ya yani haiwao-ki ano-win mi si-ya first Bob he-nom outside open-displ.result door-m.sg and he-nom

hir-ar y-wokwo 1dwo41-ya

there.only p.t-stood outside-f.sg

'We got up. Having got up. Bob opened the door and went outside first and stood there.'

(15) XYZ 3:13

tilsae-yainakwa-haiy-ap-nani-yam-a.And she-nowth.subj.gennar-getp.t-walk-outside-go-f.su.top.p.t

rep.pres p.t-walk-outside-go-f.sg. first water black.palm-f.sg get top.p.t

yapa n-wo-wi-ya
outside pres.indic-be-cust-f.sg.top.p.t

'She took it and walked outside. Having walked outside first since the water tank was outside.'

Pro-form may replace a Folk/lexical item in the text for subsequent reference to the same item or event. Pro-forms include pronouns (16), proverbs (17), referential locative (18), and demonstratives (18A).

(16) DRAM 04:2-4

M-pi kar-ir wig-a <u>makimbeptu</u> <u>sa-ir niwi</u> and-incept I-ebl weman-f.sg makimbeptu she-obl story

4-ir boin-i sae-ya yinpiugak n-wo-k-a. it-obl tell-n.pst she-nom pregnant pres.indic-be-p.t-f.sg

'I will tell the story of my wife, Makimboptu. She was pregnant.

(10A) DRAM 01:2

Man ten cl.5-tro unn.th.subj p.t-go-pl.top.p.tarwiya and then there

<u>yaka iu. irik.</u>

shere go that's.all.

'Thelve men went to Marwiya. There they went ashore. That's all.'

(18 B) HORT 03:0053

T-1-k-4n-4m kam paii-rani. t-4

near-den-m-neut-m-pl man bad-not near.den-m

n-1 dvo-ka 1-yalosok-im.

pres.indic-sit-inside-morning-pl.top.p.t

'These men are not bad. They are sitting inisise during the morning.'

The anaphoric demonstrative

hiri-yar 'Just like that.'

occurs in texts, usually immediately following the referent.

(19) DRAM 04:6-7

mi sae-ya yinpiugak n-ko-wa bi

and she-nom pregnant pres.indic-be-f.sg.top.p.t neg

n-aokaina-sasau-k-a.

Hiri-yar

pres.indic-give.birth-quickly-p.t-f.sg.top like.that-only

y-wo-kripkai-ya.

p.t-be-continue-f.sg.top.p.t

'And she was pregnant but didn't give birth quickly. She continued just like that.'

Zero syntactic anaphora, in which there is no free from to specify a previous referent is present but not common in Sepik Iwam discourse. In contemporary narrative text DRAN 04, there are 35 instances of zero syntactic anaphoric in 293 clauses. After the narrator, Joseph, has been introduced in (20), and has been referred to by various types of free prenouns, bound number markers, and the thematic subject marker in there is a point late in the narrative in which there is a series of clauses in which he is referred to by zero anaphora: (21) - (25).

(20) DRAM 04:1

kar-a Josep Moutam-k-fn.

I-nem Joseph Moutam-be-m. sg. top

'I am Joseph Noutam.'

(21) DRAM 04:232-233

9 P4 h4r-ar n4nk-in o-kao-wi

immed.gen.fut there-only with-m.sg.top.p.t be-inside.night-n.pst

Mikimboptwo sa-k-ar

Makimboptu she-with-only

'I will stay there only faside with Makimboptu during the night.'

(22) DRAM 04:234

(23) BRAM 04:235

Mi nabie g nikrani, g hio
And then daytime yes sago.leaves

tio-keo-wak-1.

get-underneath-daytime-n.pst

'In the daytime, yes, I will get sago leaves from underneath the trees.'

(24) DRAM 04:236-237

N41 1yle p p4 sa-ir whin-o-kao-wi.

night no immed.gen.fut she-obl help-night-n.pst-be.with.

'At night, no. I will help her and be with her at night.'

(25) <u>M41 karamae-k-a</u> work neg-be-f.sg

'I will not do work.'

Another example of zero syntactic anaphorm is found in text XYZ, where krim-a fina

wa-non th.subj.gen

Ne!

has been used to introduce the group in the story referring to all the participants. This group is then referred to by various pronouns and/or the thematic subject marker ina until (26).

(26) XYZ 33:

ya1-yim krim-ir boinai-yim Irik. Ina That's.all unm.th.subj talk- pl.top.p.t wa-obl talk-pl irik. boinai pr41 boinai. prii hinda That's.all and.then nothing talk nothing talk no.reason 'Me talked and our talk was not about anything. That's all.'

Zero anaphona for locatives is fairly common. This phenomemon occurs when the case frame for a verb has an optional locative but the locative is deleted in the surface clause since the information can be obtained from praceding clause.

(27) DRAM 04:59

144 an ktintdiniya OP yan4 Mhau l'hau wiu. I And. then first water down bathe go Bathe y-am-4n dig-nani 4na dikworaekwo 11 haf-gf

finish-come unm.th.subj p.t-go-m.sg.top.p.t things up put-inside

omaka hir.

house there

'And then I first went down to the water to bathe. I finished bathing and I came up to the house and put some things there inside.'

Clausal Zero Anaphora - IS

Deletion of a verb or a whole clause. This is quite rare, except in conversation.

(28) kar-a Ambunti n-am-i

I-nom Ambunti pres.indic-go-n.pst

(Reply) <u>kar-a</u> <u>war-ar.</u>

I-nom also-only

'I am going to Ambunti." "I am too!";

Anaphoric reference is also found in verb suffix chains. These suffixed pronouns are found in Sepik Iwam verbs in tense only and do not by themselves carry a great referential load. There are usually no more than 2 or 3 suffixes in a clause without a referential assist from a face pronoun or the thematic subject markers 4na (unmarked) or 4ni (marked).

In general it is sentence topic that is referred to by these affixes. Often this is grammatical subject, but semetimes object or Indirect Object.

(29) DRAM 01:93-100

"hind-ar Y4m 4na botn-im, T-4 ki-mai." say-pl.top.p.t like-only hear.dem-m.sg boil-in.water They th.subj.gen yh4i-ni **H**m ki-mai. M4 4n1 s4m-a hami they dish-with.in boll-in.water And.then th.subj.spec hami hanbimbir sim-a hami-ya ae n-am-in. half-? eat pres.indir-go-pl.top.p.t half ti...y-nom break Inf M krim-a karanae-k-4m. nan And we-nom be-pl.top th.subj.spec Sago neg nom-aka n4nga ninga A-ge n-am-4m. nothing nothing p.t-eat pres.indic-go-pl.top.p.t taro-with

ndosi nfo-aka <u>y-ae-y4m.</u> 144 <u>fna</u>
yam yam-with p.t-eat-pl.top.p.t And.then th.subj.gen

swoki-boin-im. again-say-pl.top.p.t

'They said, "Boil it like this." They boiled it in a dish. And then they broke them in half and ate them. And we didn't have any sago. We ate taro and yams. Sand they said again..."

3. ?. Cataphoric Reference

Cataphoric reference assumes an identification which occurs later in the text. Cataphoric reference is fairly rare in Sepik Iwam texts. It occurs primarily with the cataphoric demonstratives.

T-4 'This (masculine)' and t-a 'that (feminine)'. Actually this item can be cataphoric (30) as an aphoric (31). The titles of discourses often include t4 as a cataphoric referent to the entire discourse (32).

(31) DRAM 04:47

nd-krira n-4nokninkin - tani t-4 dimin-in *it-i sa-ir we-are -understand-not this thing- this it-

n-4dwo-ka1 omokou-w4n
sit-inside block-the.way

'We do not understand this thing which is blocking the way.'

Grammatical cohesion in Sepik Iwam consists of two different phenomena: conjunctions and parallelism.

Conjunctions serve to relate what follows to what has preceded in a given text.

There are two types of grammatical conjunctions in Sepik Iwam: suffixed and free. They encode six basic semantic notions, conditional, adverative, additive, alternative, cause-result, and summation. Their discourse functions include at least kinds of information and marking of grammatical boundaries. The numbers in parenthises refer to the number of the example which illustrates each use of each conjunction.

Conditional	Free		Bound		
		(33)	-1. if, when		
		(34)	-kisuo contrary to fact		
		(35)	conditional, if'		
Adversative	(36), (38)		·		
	mf 'but'	(37)	-isi 'lest'		
		(38)	ha pł 'would like'		
		(39)	-asi 'however'		
Additive	(40) mi and, and then				
Alternative	(41) o lalternative		•		
Causa-Result	-	(42)	-asi 'therefore'		
Summation	(43), (44), (45), (46) <u>4rik</u> 'that's all'				

(93) M4 si=ya waka n-4t-141 m4 cmaka m4

And he-nom tomorrow pres.indic-come-n.p-1f then

omaka waka-r miri bwakainae.

house tomornow-only work begin

'If he comes tomorrow, we will begin work on the house.'

(34) DRAN 09:0003

we.pl-nom many-be-m-sg.obj pres.indic-go-cfc we.pl-incept

<u>s-ir</u> <u>pf</u> <u>y-it-ki-k-in-gik-in</u>
he-obl. Immed.gen.fut p.t-shoot-displ.result-p.t-?-hetur .sg.top.p.t
'If many of us would have gone, we would have been able to shoot it.'

(35) DRAW 01:91

<u>s1-ya</u> <u>n-4t-k4swo</u> <u>p4</u> <u>y-41-y4n</u> he-nom pres.indic-come-cfc immed.gen.fut p.t-act-m.sg.top.p.t

'If he comes, we will cut it.'

(36) m4 maeyau kw-fr-a aknan mf hisok-1 and place cl.4-one-f.sg. picture and then wash-cust

aka t-a maeyau n41bwomambwo kom1-k-a with near.dem-f. place dark big-be-f.sg.

she-nom day-only-be-f.sg we.pl.-nom pres.indic-walk-inside-f.sg.top.p.t
'One place for washing (developing) pictures was a very dark place, even
though it was really daylight and we walked inside.'

(38) kar-a Hauna h4r-1r-4n ha 24 k4r-1r-4n Hauna there-obl-obj permiss immed.gen.fut I-nom you.sg-eb1-obj op-kak-4n y-4krop-ki 114 **CIR** si~ya village he-nom water-have-m.sg.top p.t-send-displ.result but 'I would like to send you to Hauna, but it has water (flooded).'

(39) FCL" OS

<u>B41-ya</u> <u>ninga</u> <u>ninga</u> <u>bi kwiri n-am-k-im</u> before-f.sg nothing not get.in pres.indic-go-p.t-pl.tep.p.t

hipig sau-wim wara hai-gi kwiri. Tarinan-in arrow spear-pl also put-in.canee get.in now-m.sg

u-ar-a asi hai-gi kwiri n-am-i

åte-only-f.sg however put-in.cance get.in pres.indic-go-cust

Before we did not get into our cances without anything, arrows and spears
were also put in the cance. Now however, we put en axe conly in the
cance and go.

(40) DESC 01:1

M4 kar-a h4r n-ap-r4r4r-4n m4 kar-1r

And I-nom there pres.indic-walk-around-m.sg.top.p.t and.then I-obl

ksoin-in <u>ini Ukarumpa s-ir-im-a</u>
thinking-m.sg m.th.subj Ukarumpa he-obl-purp-f.sg

<u>y-angwo</u> <u>t4bm1-k1-yin</u> <u>om k4b4e-k-fn</u>
p.t-think believe-displ.result-m.sg.top.p.t good-be-m.sg
village

'And I walked around there at Ukarumpa and my thoughts about it were very good towards that village.'

- (41) si-ya **p4** aum-a n-asi am-1 he-nom imred.gen.fut aum-loc pres.indic-or go-n.pst tauri-ya n-asi am-f tauri-loc pres.indic-or go-n.pst. 'He will go to Aum or he will go to Tauri.'
- (42) FOLK 06:0384

mi si-ya wakae-ki s-ir yaowae-yin bidi and he-nom hear-displ.result he-obi older.brother-m.sg compl.p.t.

yao-win

mi si-ya asi n-4t-k-4n

die-m.sg.top.p.t and he-nom therefore pres.indic-come-return-m.sg.top.p.t

'He heard that his older brother had died completely and therefore he came.'

Time......tion particle <u>frik</u> 'that's all' occurs at the end of an episode in a narrative. That is, it occurs at the end of a minor episode in the narrative (43), following some quotes (44), following an exciting episode in a narrative (45), and following a prayer (46).

(43) DRAM 01:2

kam fur nw-fs fna y-am-fm Marwi-ya mf

hir yaku iu. irik.

there go.ashore go That's.all.

'Twelve men went to Warwi and went ashore there. That's all '

(44) DRAM 01:8

And unm.th.subj said-displ.result That's.all 'And he said, that. That's all.'

(45) DRAM 01:29

Kar-ir kwoin-in hik. irik.

I-obl thoughts-m.sg thrilled That's. all.

'My thinking was thrilled (my heart was thrilled). That's all.

(46) DRAM 01:35

ina kwis-ki adi komi s-ir-im Kar-a orado I-non unm. th. subj close Father big he **e**ye sr41-k1. irik. That's.all. ask

'I closed my eyes and asked the Bib Father. That's all.

4. Lexical Cohesion

Lexical cohesion involves the use of lexical items as a means of connecting portions of a discourse. This type of cohesion will be termed specific if the lexical items are coreferential and general if they are not.

Lexical cohesion can be by common semantic domain, by colideation, or by cycling.

4.1 Common Semantic Domain

Coréferential repetition has been mentioned under grammatical cohesion in Section 3.2, anaphoric reference. Synonymi is very infrequent in discourse of any type. (47) comes from an expository text.

(47) EXPS 03.p.1

<u>Krim-a t-i om-im ini numir-nan</u> we-nom near.dem-m village-pl m.th.subj garden-like

y-wo-wam.

p.t-be-pl.top.p.t

'We people of these villages are like gardens. (I.E. We have had the seed of God's word planted in us and are bearing fruit).'

Coreferential lexical cohesion using two terms on different levels of the semantic hierarchy occurs in discourse but is climited to a small set of terms such as inkam 'person' kam 'woman' yinisim 'child' yinisim 'child' yinisim 'child' yinisim 'daughter'

(47) EXPS03:0005 Ni inkam paenit yai boin-mamauu ti and person seed talk tell-explain near-dem-m

kam-im yai kig boin-mauu Adi Komi s-ir yai a-ir man-pl talk paddle tell-explain Father Big he-obl talk she-obl 'And a person who tells out the seed (God's talk). These men paddle and tell out the Big Father's talk.'

(47A) PROC 03:0278

K4r-a pi ikou. inkam-in hai-gi immed.gen.fut put-inside block MOU-now person-m.sg Kiya! PŦ malyak n-ko-rani kam Eh! pres.indic-be-not immed.gen.fut man good

'If you are a person who blocks the way. Eh! This man is not good.'

Coreferential lexical cohesion involving two terms on different levels is relatively rare. One example is (48)

(48) Elicited. Krim-a Warri n-am-1 T-a whii-ya
We-nom Warri pres.indic-go-n.pst near.dem-f.sg lake-f.sg

hu-n1 whii-g-a
pig-poss lake-be-f.sg

'We went to Warwi. This lake is a lake for pigs.'

Different reference with lexical items from the same semantic level is another type of lexical reference. The cohesion can be based on items with opposite meaning (antonyans) or on some shared semantic feature.

Antonyans occur primarily in FOLK Tales and Expository texts.

(49) FOLK 04:0286

Noumousim-a <u>yinkamiyin</u> <u>yacwae-ya</u> <u>yinugiyin</u> <u>kigok</u> <u>mwrii</u> younger-f.sg boy older-f.sg girl look.good grow

m y-okwo-ki

p.t-stand.up-displ.result

'Look good to see if the younger sisters boy and the older sister's girl grow up good.'

(80) EXPOS 02:0198

M4 sa-ir n4d wad4e o biy4e. M4 t-4

And then it-obl decide good or bad And near.dom-m

dikworaekso nu tir-an-im. things ground here-?-pl

*Decide what are the bad things and what are the good things of the ground hare. *

For lexical cohesion involving shared semantic features is quite common in Sepik Iwam discourse.

(51) went upstream, looked (at hooks), went upstream, caught (fish)

(51) DRAM 09:6

idakdig-1-yarkar-aopinawhaun-am-apullfinish-?-onlyI-nomwater unm.th.subjbathepres.indic-go-f.sg.top.p.t

mi <u>ina swoki di n-am sir kig</u> and.then unm.th.subj again upstream pres.indic-go hook look

upstream pros.indic-go catfusg ck...two-f catch-inside
'I finished pulling out the grass, bathed, went and returned upstream
and looked at the hooks going upstream and caught two catfish and put them
in the canoe.'

(52) DRAM 09:11 Mi kar-a t-i=k-i anasu iriyar

And.then I-nom near.dem-m.neut-m fish five

wh-is-o hii hir ini hai-gi hai-gi pae cl.3-two-dl bed there there.then put-inside put-inside fire

ina y-amgin ina y-ankai-i-iim mi ina unm.th.subj p.t-smoke-cust-pl.obj and.then unm.th.subj

kp4t-a yarmi-ya

turn.over-f.sg.top.p.t side-f.sg

'I put these seven fish on the table, made a fire, smoked them and turned them over on their side.'

This type of cohesion is a means of stating a discourse theme, as in Text DRAM 04 about a woman who was very sick in child birth.

yinpiyak 'pregnant' yigus 'born, give birth' milyik 'not good'

Different reference with lexical items from different levels in the semantic hierarchy is fairly common in Sepik Iwam discourse. Often the most general term occurs first.

(53) URAM 04:51 Ina y-am-an dikworaekw. Ii hai-gi unm.th.subj p.t-go-m.sg.top.p.t things Up put-inside omaka hir. M ha n-am-a 4dwo-kai-k-4n house there And rep.pr pres.indic-go-n.fin sit-inside-p.t-m.sg.top.p.t mi sae-ya kwa-boin, and then she-nem nar-said

'He went up to the house there to put some things inside. And having gone he sat down inside and she said,

(54) PRAY 01:0054

Krim-ir nomiyau ma-4s-o Stephen so-wa Filip our-cbl brother cl.5-two-dl Stephen they.two-nom Philip

oun hir n-wo-wo

Oum there pres.indic-be-dl.top.p.t

'Out two brothers, Stephen and Philip, are there at Oum.'

(54A) FOLK 01:0088 :

t-a 4niv4b-k-a t-a n-wo-w4n-a near.dem-f pres.indic-be-m.sg.top.p.t-rel

<u>y4nh4e-kak-a</u> <u>n-wo-wi</u> <u>inkam-in</u> <u>kopak</u> <u>s4m</u> <u>Tamily-hare-f.sg</u> pres-be-n.pst person-m.sg teenage.girl dim

<u>yainan</u> <u>sim-k-in</u> <u>wa</u> <u>d-ae</u> teenage.boy dim-be.m.sg.top.p.t fut.after.today imp-eat

'This sugar is there and a person who has a family, a teenage girl and teenage boy can eat.'

4.2 Lexical Collecation

Lexical collacation is cohesion using words that regularly co-occur (Halliday: Hasan 1976:284). This collocation can consist of objects, objects and events, or events only.

Lexical collocation of objects is illustrated by the following nouns and verbs from text PROC 11, a procedural text on fishing.

<u> Riouns</u>		<u>Verbs</u>			
s4r	⁴ hook ⁴		ki-mai	'pull out of water'	
hamna	'fish net'	-	<u>hai-gi</u>	'put in'	
yłpsu	'auto of fish'		borit-mai-i 'tie it on'		
hamsu	'name of fish'	•	n-4t-mai	'throw in water'	
OBWIIB	'fleat'	1.	<u>k4g-1</u>	'look'	
haigu	'trap'	•	n-ae-ya	'eat'	
anasu	'catfish'		nin-i	'leave'	
opsu	'fish name'	-	táo-nani	'return-come'	
T4diy4u			hai-gi-yiu-nani		
numapiyin	'worm'	worm*		n-am-yakwok-i-yim 'go in morning'	
nhid-nit	*seed*		krini	'shoot'	
yab	'river'		kr i s	put on hook	
Tom	'name of fish'	· ·	n-ae-1-k-a	'cat'	
			nadini-yin	'come upstream'	

One common type of lexical collocation in Sepik Iwam is the type resulting from a sequence of events called an expectancy chain (Longacre 1972).

The following chain is from Text PROC 19, a procedural text on fishing: https://doi.org/10.1016/journal.com/ text on fishing: https://doi.org/10.1016/journal.com/ text on fishing: https://doi.org/10.1016/journal.com/ text on fishing: https://doi.org/10.1016/journal.com/ text on fishing: https://doi.org/ text of fishing: <a href="https

4.3 Sample Text

A short portion of a text illustrating some of the types of cohesion follows:

The text is given in the left hand column with a morpheme by morpheme translation underneath. On the right are the same specific types of cohesion.

Phonological cohesion is specified only by means of the orthographic symbols for the intonation contours.

In the right hand column the types of cohesion are listed for each clause. The relevant affix, word or clause number is given in parenthesis.

Abbreviations are as follows:

An anaphoric reference using <u>Analani</u>.

ZA zero ana Pro pronominalization SG Specific-general
Col lexical collocation Rep repetition Sem Dom Same Semantic column
Link linkage Par parallelism

For example, in clause 3 ZA (yacwae) indicates zero anaphora with respect to the term yacwae 'older brother', which appears in clause 2 but is replaced by zero in clause 2. Similarly Link (kanan-win) refers to the linkage or repeated verb (kanau-win), which in clause 3 is repeated after appearing in clause 2. In clause 4, An (ina) indicates an anaphoric reference to the last prominent referent, which is yacwae 'older brother' in clause 2.

FOLK 06:P.5

- 1. 41-ya ha pirkin-ki-yaksok-a.
 day-f.sg p.t dawn-displ.result-morning-f.sg.top.p.t
 'The day dawned.'
- 2. Yacwae ina kanau-win
 older.brother unm.th.subj hide.hunt-m.sg.top.p.t
 'The older brother hid, hunting (for birds).
- 3. <u>Ha kanau-win,</u> ZA (<u>yaowae</u>)
 rep.pres hide.hunt-m.sg.top.p.t Link (<u>kanau-win</u>)
 'Having hunted.
- 4. <u>ina kig-in</u> <u>inaba psekwo n-ae-k-a</u>
 unm.th.subj see-m.sg.top.p.t dove leaf pres.indic-cat-p.t.f.sg.top.p.t
 ZA (<u>yacwae</u>)
 An ina)

'He saw a dove eating a leaf.'

- 5. Ha kw-am-in ZA (yaowae)
 p.t start-go-m.sg.top.p.t

 'He started to go.'
- 6. <u>fea</u> <u>yaka igrio-ki-yin</u>. <u>aris.</u> ZA (<u>yacwae</u>)
 unm.th.subj up shoot-displ.result-m.sg.top.p.t That's.all. An (<u>ina</u>)
 '(and) he shot upward. That's all. (It hit the bird).'

7. 4n1 k4k4d-kek-a haf . sinam-a An (Ini) take.carry fly-f.sq.top.p.t m. th. sub.i appow ZA (4nmaba) Col (fgrfo 'shoot')

IIt flew carrying the arrow."

(k4k4d 'arrow')

8. 4ni 2-4-k-4 nemous4m-4n near.den -m-neut.m younger.brother-m.sg An (4n1) m. th. sub.1 swok4-ha1 Rep (hat sinam) s-ir stytu 4-1r-ar path it-obl-enly again-carry ZA (4nmaba) sinam-a. Col (nombus4m) fly-f.sq.top.p.t 'younger brother' (yac::ae) 'older.brother'

'It carried (the arrow) and flew following the younger brother's path.'

- 9. kimidina t-a-k-a weiblyfe-ya ZA (4nmaba) sa-ir then near.dem-m-neut-m old.weman sheeobl y-a-n-at-k4n-4u. h4r-ar there-only p.t-alight-?-sit 'Then it alighted and sat there near this old woman.'
- 10. Ya 4na ungrem kuror hai-gi-ya Pro (ya) put-under-f.sg.top.p.t An (4na) unm.th.subj break she break sa-ir hamna aowa. Ido-oriz fish.net underneath 'She broke several of its bones (so it wouldn't fly away) and put it undermeath her fishnet.'
- 11. <u>Sae-ya</u> hamna hiu-k-a. Pro (sae-ya) she-non fish.net make-p.t-f.sg.top-p.t Rep (hamma) 'She made the fishnet.'

12. <u>Y40</u> nhia in-ir-ar słu Pro (yto) blood they-obl-only follow An (4n1) yokyok-41-y-am-4n. 90.90-?-p.t-go-m.sg.top.p.t 'He followed the trail of the blood and went a long way. ! 13. <u>4na</u> k48-44-44R ZA (yaowae) unm.th.subj look-ge-m.sg.top.p.t An (4na) 'He went and looked.' 14. <u>ae-ya</u> <u>waibiyie-ya</u> <u>si-ya</u> <u>boin-a.</u> Rep (<u>waibiyie</u>) she-now eld.woman-f.sg he-nom say-f.sg.top.f.sg Pro (siya) 'He told the old woman.' 15. <u>\$1-ya</u> 4na 1n4 boin-fu-win Pro (siya) he-nom unm.th.subj there.then talk-go-m.sg.top.p.t An (4na) 'He went and talked there, at this time.' 16. <u>kar-a</u> kar-ir 4p1y4n a-1r-4m SG (4poly4p) I-nom I-obl she-obl-purp n-4t-k-4n pres.indio-come-return-m.sg.top.p.t 'I came for my bird.' boln-a Pro (ya) she unm.th.subj say-f.sg.top.p.t An (4na) 'She said.' 18. <u>K4r-1r</u> 4piy4n-a tir-ar SG (fpiyin) t-a-s1 bird-f.sg near.den-f.here herevenly Teo-nov B-40-49 PB

'Your bird is here.'

19. Y40 4na bo4n-4n. Pro (Y40)
he unm.th.subj say-m.sg.top.p.t An (4na)
'He said.'

20. <u>Waibly4e</u>, <u>pana</u> <u>k4r-a</u> Rep (<u>waibly4e</u>) old.grandmother, now you-nom

<u>kay-1r</u> <u>k4k4d a-1r-ar-a</u> Rep (<u>k4k4d</u>)

I-poss arrow she-obl-only-?

there.above pull.out throw.come.down-displ.result Rep (4piyin)

4piyin-a kir-ar ha hai naggit.
bird-f.sg you-only imp take hold

"Old grandmother, now you pull out my arrow and throw it down and as for the bird, you take it."

5. Paragraph boundaries and Cohesion

A tentative hypothesis for paragraph boundaries in Sepik Iwam narrative texts has been tested. The hypothesis is that paragraph boundaries occur immediately following those occurrences of <a href="first-transformation-right-number-of-text-under-of-text-u

When tested for text XYZ, this hypothesis seemed to be confirmed. The episode completion marker <u>frik</u> ocurred at locations in the text with from zero to 19 cohesive ties. The occurrences of <u>frik</u> which coincided with six or fewer cohesive ties were considered to be paragraph boundaries, while those which coincided with nine or more cohesive ties were considered to be marking episodes but not paragraphs.

The two sentences occurring before and after the paragraph boundaries determined by the above criterion are listed below:

XYZ

mi si-ya hirinan boin-in. irik.

and he-nom like.that say-m.sg.top.plt that's.all

'And he said it like that. That's all.'

New Paragraph: (across six cohesive ties)

Krim-a ina kwa-nhinim.

we-nom th.subj.gen nar-get.up

'We all got up. '

XYZ 5-6

Ha nhinim kimidiniya Bob si-ya yani haiwoki ano-win rep.pres get.up first Bob he-nom outside open door-m.sg

m4 si-ya hir-ar y-wokwo idewii-ya. Irik.

and.then he-nom there-only p.t-stand outside-f.sg That's.all

'Having gotten up Bob opened the door and went outside first and stood there.

That's all.'

New paragraph. (Across two cohesive ties)

New krim-a ina kw-apniyam-im.

we we-now th.subj.gen nar-walk.out-pl.top.p.t

'We all walked out and want.'

XYZ 40-4k

Mfhaswok4-k-wo-winTems1-yamfhaAnd rep.pres again-p.t-stand-m.sg.top.p.tTemhe-nomand.thenrep.presswok4-k-wo-winTobiyakaokwo-kai-namhofi-qimhofi-yinagain-p.t-stand-m.sg.top.p.tclosestand-inside-?later-?later-?later-m.sg

Bob si-yar y-wo-k1. Irik.
Bob he-only p.t-be-displ.result That's.all.

'Then next stood Tom and next stood Tobi close inside (in the middle) and last followed Bob only. That's all.'

New Paragraph (across five cohesive ties)

th.subj.gen in.line-come-pl.top.p.t we-nem
'We came walking in a line.'

XYZ 45-46 Since this example is relatively near the end of the text. This

Having -sit-sit- finish That's.all.

Bob si-ya boin-in irik.

Bob he-nom said That's.all.

'Having sat down, Bob said, "That's all."

New paragraph (across cohesive ties)

<u>Ini dia y-wo-ki-yin t-i dimin krim-a diriraerar-in</u> finish -be- this semething we did

price-rani.

long-not.

'It is finished. This thing we did was not long.'

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