PART III

SEMANTIC AND GRAMMATICAL STRUCTURES IN AN ISIRAWA NARRATIVE Toncë Mamnin, Narrator

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1.0 Introduction

The expression of simultaneity of action in Isirawa 1 has presented problems. The nearly inevitable question of an Isirawa speaker, if he is in any doubt at all, is: "What happened first?" And rarely in speech, when he is not in doubt, does he reverse the chronological sequence.

In order to help Toncë Mamnin understand a situation of simultaneous action, the first author draw a picture of a man and a boy looking at a crocodile, and asked him how to say what was happening. The result was, "The man saw the crocodile; the boy saw the crocodile." This is one of the more frequent ways simultaneity is shown in that narration² which has served as the major source of information for the analysis presented in this paper.

It was further explained that "at three o'clock by the watch, at the time the sun was in the sky at such and such an angle (indicated by gesture), the man saw the crocodile"; and "At three o'clock...(by gesture), the boy saw the crocodile." Toncë responded, "The man and the boy saw the crocodile." This, certainly, is one of the less ambiguous ways of showing simultaneous action. Then Toncë was asked about the crocodile's seeing the man and the boy. He thought for a moment, then announced: "The crocodile saw the man out of one eye; with the other eye, it saw the child!"

We see, then, that ways of mapping the chronological simultaneity or sequence (clock time sequence or semantic ordering) onto the grammatical sequence varies from language to language. (Similarly, the degree of tolerance for reversing the chronological sequence also varies from language to language.)

It is obvious from this simple anecdote that there are both cultural and grammatical constraints on the expression of relationships which some people would expect to be simple and universal. Semantic theory must be able to integrate these differences in a coherent theoretical system.

The purpose of this article is to suggest a technology which helps the beginner to approach such cross-cultural differences of language directly and rapidly; but, in addition it presents some important theoretical implications concerning meaning. Specifically, it attempts to affirm and demonstrate through the use of this text that there is a semantic hierarchy with levels of structure, each with its sequence of tagmemes, characterized by functions of slot-role together with their filler classes, and that this hierarchy must be theoretically and practically differentiated from the grammatical hierarchy which also has sequences of tagmemes characterized

by functions of slot-role together with their filler classes. Grammatical meaning is shown in grammatical role (e. g. case on clause level) and grammatical category (e. g. grammatical gender).

It is the theoretical development of the semantic hierarchy, illustrated in some detail, in relation to the accompanying text, which becomes the prime contribution of the paper. It does so, specifically, by showing the non-isomorphism between the constituent structures of the semantic hierarchy and the constituent structures of the grammatical hierarchy; their immediate constituents and the sequences of their parts clash. If the two had been found to share common boundaries for their constituent units, and to share the same ordering of these elements, then only one hierarchy—not two—could be posited (even though it might have two aspects). As it is, the data from the text demand, from our point of view, the acceptance of a semantic hierarchical set of units in sharp theoretical distinction with a set of grammatical units above the sentence.

Much of the present analysis of the semantic structure and of the higher levels of grammatical structure of the text are early (etic) hypotheses as to the nature of those structures. The stability of the analysis of various parts of the systems varies greatly. Some core of the analysis is likely to be quite solid; on the other hand, for other data, the hypotheses must be quite tentative. Such degrees of analytical probability are inevitable, and the analyst cycles through his data using the more solid parts to give clues to the analysis of other parts. Yet the analyst needs to know, however crudely, something of the larger unit within which occur the data of his primary interest. Also he needs to know something of the range of variability of the structures of his postulated norms. Similarly, he needs to know something of the phonological structure of his data (in contrast to its grammatical structure, and in contrast to its semantic structure) before he finalizes any one section. (A paper presenting the early phonological structure of Isirawa by Hiroko Oguri and Carol J. Erickson appeared recently in Irian, Bulletin of Irian Jaya Development, Feb., 1975, Vol IV, No. 1, produced by the Institute for Anthropology, Cenderawasih University, Jayapura, Irian Jaya, Indonesia.)

2.0 The Semantic Hierarchy

2.1 General Statements

In this paper the data selected for discussion of the semantic hierarchy will be restricted to one narrative text. Later treatment may expand this kind of analysis to further narratives and to non-narrative materials.

The semantic hierarchy of a narrative includes that subset of meanings which places pieces of information (see Section 2.4.3 for a discussion on pieces of information) of the narrative in a clock time sequence. It also includes that part of meaning which involves the place of each piece of information relative to its function or purpose in a sequence of purposeful behavior. This meaning, which is referred to as semantics, is in contrast to those subsets of meaning-as-impact which are to be found in the phonological and grammatical hierarchies. (Perhaps some

persons might understand us better if we were to say that there is surface versus deep structure in each of the three hierarchies.)

We now describe our usage of the phrase "piece of information": When the outside analyst is trying to discover elements of information from within a speech event, the problem is to find significant elements within an intricate interweaving of many semantic vectors which can only be seen through words in their grammatical settings. The first entrance into this bewildering mass of data requires initial crude (etic) guesses as to meaning. Elements of varying sizes, even when only partially understood, must serve as entrance points into understanding the narrative. In the early stages of understanding, the analyst may "cut out" from the narrative some span of indeterminate length (from morph to episode), which seems to give him insight. Such a span we will call a piece of information; it is etic, not yet emic; an alien's view, not that of the insider, and without determination as to its boundaries or its place in the semantic hierarchy, or its place in the complex set of semantic structural relations. Nevertheless, here we do begin.

That the semantic structure is hierarchical in nature is seen in the closer relation of some pieces of information to each other than any one of them is to any other piece of information. This is analogous to the hierarchical nature of phonological and grammatical structure, with their successively including constituents.

Some semantic constituents have a marginal versus nuclear relationship in that one piece of information is understood by the speaker to be introductory (or else terminal) to another piece of information; the nucleus with its margins would function in a specific kind of semantic sequence (called a vector, below). The information that "a family was called to dinner" is a premargin to the nuclear information that "the family ate dinner." It is in the vector of Providing-sustenance-forpeople, because the marginal act depends for its reliance on the purpose of the nuclear act; the "calling" aims toward the family's needs for eating. This relation of the semantic hierarchy to purpose is the crucial insight which opens the door to semantic-clause units with marginal and nuclear propositional relations. Thereby it allows a treatment of the semantics with reference to the wave component of tagmemic theory (including levels of the semantic hierarchy) instead of forcing the semantics of a text to be treated either as a mere adding of information elements (particles) to an inventory, or instead of forcing it to be perceived as a vast, endless nonunitized network of relationships. Tagmemic theory, with its required observer component at all stages (and therefore having its analytical alternative perspectives of particle, wave, and field) can combine insights and can focus on an item separately at will. This is analogous to the marginal-nuclear relationships within the phonological and grammatical hierarchies, and their treatment within the wave perspective.

Then, by analogy with recent tagmemic treatment of paired hierarchies (Pike and Pike, 1974: 31 - 3), the semantic-clause plus semantic-sentence paired level with its propositional content would be paralleled by the semantic-word plus semantic-phrase paired level with its term content (and often as having referential function in relation to things, events, quantities, relations, and the like). The semantic

clause may answer the question "What happened?"; the semantic term may answer the question "What is it?". In this paper, however, no treatment is attempted below (and but little above) the semantic-clause-sentence paired level.

The semantic hierarchy of an individual's language within this theory includes every element—and only those elements—about which he can and does talk. This eliminates from his personal linguistic semantic hierarchy all of his permanently sub-articulate, subconscious perceptions, "knowledge", or beliefs. (These elements are left to be treated by a different discipline.)

The etics of the semantic structure of language is the sum of the semantic structures of all languages of all people.

At least four prime points of reference are relevant for any speech event: (a) the <u>speaker</u>; (b) the <u>addressee</u>; (c) its place in <u>time</u>; and (d) its place in <u>space</u>. These are all identifiable in the Isirawa narration.

The particular presuppositional structure of the language has been verbalized in some fashion (whether in diffuse, vague, extensive dialogue, or in specific labels) at an earlier date by some speaker or speakers of that language. And for any given narrative the presuppositional structure is an unactualized part of any semantic vector which has at least one of its parts actualized in the narrative.

2.2 The Chronological Sequence

The clock time order of information in a narrative we will refer to as the chronological sequence; it is the semantic ordering of information in reference to the wave component of nucleus and margin mentioned above.

The uniqueness and genius of grammar is its mapping, in linear narrative sequence, of the simultaneity and sequentiality of many pieces of information. But languages differ in their ways of mapping chronology onto grammar, and also as to their tolerance for reversing the chronology.

2.3 The Semantic Vector

Granted, now, that a chronological sequence is relevant to our tagmemic view of the semantic hierarchy (as distinct from the grammatical one), we wish to have a term which allows us to refer easily, but tentatively, to socially significant chunks of a larger significant event. A segment of a chronological sequence which we have tentatively (etically) selected as probably social and structurally (emically) relevant to a chronological propositional sequence we will call a semantic vector; the term "vector" emphasizes the dynamic, moving character of such a narrative chunk, in contrast to static or background elements. A semantic vector, therefore, is relevant to levels of the paired semantic hierarchy (see Section 2.1) beginning with the clause and extending upward to higher event levels.

Every piece of information in the chronological sequence is probably either a total semantic vector, or is part of a semantic vector (even as a phone in the phonological hierarchy is a phoneme, or joins adjacent phone(s) to make up one phoneme). A piece of information, however, has at least one other possibility; it may be at the intersection of and be part of many semantic vectors, each of which has its own

multiparameters of contrastive features. This multidimensional system must be vast. The sum of all the semantic vectors represented in a narrative by an overt form of at least one of its parts is the semantic structure of the narrative. A paradigm of each of those vectors can be elicited from a member of the community in much the same way that a paradigm of a verb, clause, or sentence can be elicited. For example, using as a constant frame the nuclear vector represented by John built himself a house in order to have a place to live, one could place before it the margin John bought lumber and; or John found an acceptable house lot and; or People came to help John when. Note that in order to have a place to live is not itself a semantic vector, but rather the purpose (meaning) component of the form-meaning-composite of which the buying of the house is the form component; only the pairing of the form with the meaning provides the emic vector as a unit of our semantic hierarchy. Similarly, in the margin people came to help John, form is explicit in came, with margin meaning to help.

The specific vector to which any given piece of information in the chronological sequence belongs may vary with the individual; also the status of each piece of information as a fact (emic) varies with the individual. For example, some items in the chronology may be affirmed by every member of the community whereas other items may be affirmed by some and denied by others. Consider an account of a trial of Mr. X for the murder of Mr. Y. It may include the information that Mr. Y died and that his body was found. If everyone affirms the second piece of information, then every one will affirm that Mr. Y died, and each of these two pieces of information is "a fact" for each individual of the community. But if a piece of information, earlier in the chronology, is that Mr. X waylaid Mr. Y, and if that fact is a crucial link to the identity of the killer, then this information will have been affirmed by some members of the community, but denied by others, if Mr. X has also pleaded "not guilty." At this point in time, it is in the accusation vector for each member of the community but it is in the murder vector only of any possible eye witnesses to the killing who believe that the killing was a premeditated act. There are a great many criteria by which members of a culture judge whether a specific piece of information is in any given semantic vector for any given person. In human behavior the probability of the community's making such judgments plays an important part in community behavior and needs to be an overt variable in any linguistic analysis.

2.4 The Data: Toncë's Narration of the Taking of Engarina

Toncë told "The Story of Engarina's Being Taken by a Crocodile" to Carol Erickson. One morning Engarina, who was about ten years old, went with two of her younger brothers to a nearby river to net shrimp from their canoe. By accident she fell overboard, continued netting (standing in the shallow water), and was taken by a huge crocodile. The villagers searched for her body, but only after many hours did they retrieve and bury part of it. A neighbor was accused of having performed witchcraft on the child, and therefore was accused of being the cause of the tragedy. The story ends with his being taken off to jail. Following the end of the story, Toncë

includes in his ending of the narrative event the affirmation that he knows the story to be true.

3.4.1 The Chronological Sequence of the Narrative (at Clause Level of the Semantic Hierarchy)

We now present in Figure 1, the chronological sequence of the pieces of information in Tonce's narration. We have chosen to start with medium sized chunks or pieces of information at this beginning stage of analysis. We asked the question, "What happened first?". These then are probably at the event level of the semantic hierarchy (comparable to the clause-sentence level in the grammatical hierarchy). Several events or pieces of information which figured together in the chronology are often grouped together, rather than being listed as separate pieces of information.

Certainly at a lower level of the hierarchy, probably term level, is the contrast between the two Engarinas in the story.

Then, a higher level in the hierarchy than event is the vector of Providing-sustenance-for-people in which people eating food would be the nucleus, the premargins of which would be <u>Preparing-food</u> and <u>Gathering-food</u>. A postmargin would be <u>Taking-care-of-remaining-food</u>. This is a hierarchical clustering of events.

There are four columns in the list (which follows) of chronological-grammatical sequences. The first column indicates the etic clock time of the events listed in the fourth column. The second column lists in numerical order the chronological sequence of events. The third column indicates the sentence number(s) in which the event is mentioned in the text at the end of the article.

Etic Time	Chronological Sequence	Grammatical Sequence	Event
Wednesday	C1	G71, 75, 289	Kora bewitches Engarina
Thursday 6:00 A. M.	02	G13, 16	Two women go to the jungle
11:45 A. M.	03	G22	Engarina and brothers in canoe, Engarina netting shrimp
12 noon	04 05 06	G23, 24 G25 G26 - 28	Deki wants to go home Deki paddles fast Engarina loses balance. She and
	C7	G29	net fall into river Engarina continues netting shrimp in the river
	C8	G30 - 32, 35	A crocodile grabs Engarina at her
	C9	G33 - 35	waist and pulls down Deki grabs Engarina's neck and pulls up
	C10	G36, 3 8	Canoe moves to deeper water, Deki
	011 012	G39 G40, 117, 142	is almost pulled in Deki lets go Crocodile takes Engarina about no
	013	G41 - 42	Boys paddle home, anchor canoe an run to house

Etic Time	Chronological Sequence	Grammatical Sequence	Event
	C14 C15	G43 - 47 G48 - 49, 9 - 11	People question, boys answer People cry and run with news, Rewi spreads news
	C16	G1 - 8	Korano and Enus at house making floor, Toncë making window
	C17 C18	G9 G12 - 16	People and Toncë hear Rewi They question, "Which Engarina?"
12:20 P. M.	C1 9 C20	G17 - 20 G21 - 47	Rewi joins group, answers question Rewi tells story
12:30 P. M.	C21	G50 - 56	People run to river, Toncë walks with crutches
	C22 C23	G57 - 61 G62 - 63	People and parents crying Maria restless
12:35 P. M.	024 025	G70 - 75 G76	Maria accuses Kora of witchcraft Men prevent Karten from killing Kora
	C26	G77 - 79	Kora goes home
12:40 P. M.	027 028 029	G64 - 65 G66 - 68 G69	Kora meets Toncë Kora tells story Kora goes home
12:45 P. M.	030 031 032	G80 - 85 G86 - 90 G91 - 96	Karten grieves Maria asks to be killed People, Korano, and Toncë at parents' house
12:50 P. M.	033 034 035 036 037	G97 - 100 G101 G102 - 103 G104 - 107 G108	Yosep begins to tear up kitchen Men can't hold him Yosep tries to kill parents Yosep tries to wreck house Men frustrate Yosep's attempt to kill Karten
1:00 P. M.	038	G109 - 113	Matias and others search for body
1:15 P. M.	039	G114 - 117	Arrive at Autore, looks like rain
1:25 P. M.	C40	G118 - 119	They start back still looking for the body
1:30 P. M.	C41	G120 - 121	Begins to rain, all get wet
1:35 P. M.	C42	G122 - 123	They see corpse being dragged by crocodile
	C43	G124	Matias says, "There's the corpse."
1:38 P. M.	C44	G125, 130	Crocodile sees them and dives under with the body
	C45	G126 - 127	Matias says, "Let's come back when the rain stops."
1:45 P. M.	C46	G128 - 131	They return to village, answer questions
	047	G132 - 133	Rain continues until night
2:00 P. M.	C48	G134 - 135	Simson runs with news to Puar
2:15 P. M.	C49	G136	Yusup singing coming downstream in a canoe with his wife
	C 50	G137 - 138	Simson claps hands and says, "Who's there?"
	05 1 052	G139 G140 - 143	"I'm Yusup." "Don't sing because Engarina's been taken.

Etic Time	Chronological Sequence	Grammatical Sequence	Event
	053	G144 - 146	"Look for her as you travel."
2:30 P. M.	C54	G147	Kornelia and Yusup plan to search
	C55	G148 - 149	as far as Setema It is almost raining so they pick big leaves
	C56	G150	Kornelia covers baskets
2:35 P. M.	C57	G151 - 154	Kornelia is sick, they travel to Setema in the rain
2:45 P. M.	C58	G155 - 157	They arrive at Yusup's house and light fire
3:15 P. M.	C59	G158 - 160	Kornelia can't sleep, Yusup sleep
4:00 P. M.	060 061 062 063	G161 - 163 G164 - 166, 180 G167 - 170 G171 - 175	Kornelia can't sleep, is hungry Kornelia hears water splashing Kornelia prepares vegetables Kornelia walks to door, sees wate thrown high
4:10 P. M.	C64	G176 - 180	Kornelia wakes Yusup, tells him about crocodile
	C65	G181 - 184	Yusup wakes up
4:15 P. M.	O66	G185 - 187	Yusup takes spear and goes by him self in the canoe
4:20 P. M.	C67	G188 - 202	Yusup nears mouth of Topate, sees crocodiles eating corpse
	C68 C69	G204 - 206 G207	Yusup doesn't seize the body Yusup sees the crocodile that divided the body
	C70	G208 - 209	The crocodile sees Yusup, dives into the water
	C71	G210 - 212	Yusup is afraid
4:45 P. M.	C72	G213 - 214	Yusup returns to his house
5:15 P. M.	073 074 075 076 077	G215 G218 G219 - 221 G222 - 224 G225 - 229	They go back to the corpse They arrive at mouth of Topati They put the remains into a canoe They meet Pupuari Yusup tells Pupuari to run ahead with the news
	C78	G230 - 234	The people see and hear Pupuari coming with the news
5:30 P. M.	C79 C80 C81	G235 - 238 G239 - 242 G243 - 244	Pupuari tells Toncë the news The people go to the river The corpse is brought from canoe to the parents' house
	082 083	G216 - 229 G245 - 247	Kornelia tells Tonce what happene Women returning from getting sage cry
6:00 P. M.	C84 C85 C86 C87 C88 C89 C90	G248 G249 - 252, 254 G256 - 257 G258 - 260 G261b G262 G263	The police arrive Patipem tries shooting Karten People grab Patipem Patipem hits Karten Karten falls down and is helped All that day and night it rained
	092	G255	and people cried Everyone sleeps until morning

Etic Time	Chronological Sequence	Grammatical Sequence	Event
Friday 8:00 A. M.	C93	G264 - 266	The government officers come from
	C94	G267 - 268	Sarmi The Vice Camat asks the villagers questions
	C95	G269	They show him where the crocodile grabbed her
	C96	G270	They show him where Yusup found
	C97 C98 C99	G271 - 272 G273 G274 - 278 G279 - 280, 253	her The Vice Camat writes it all down They all return by canoe The Sarmi people kill a dog and cook it with chicken and vegetables They bury the little coffin
12 noon	C101	G281	The Vice Camat goes home
2:00 P. M.	C102	G282 - 284	The other Sarmi people eat and go
	C103	G285 - 286	Patipem and Kärärowai sleep in the village
Saturday 7:00 A. M.	C104	G287 - 289	Karten gives a report to Patipem accusing Kora
Sunday 6:00 A. M.	C105	G296	The Korano goes to his garden up the river
8:00 A. M.	C106 C107	G290 G291 - 292	A truck comes with two soldiers They call Kora and take him to jail
10:00 A. M.	C108	G295, 297 - 298, 301	The Korano goes to find out the truth
5:00 P. M.	C109	G294, 299	The Korano and Karten have a discussion
	C110	G300	Karten accuses the Korano of trying to cause trouble
	C111	G301	The Korano denies it
Two months later	C112 C113 C114	G293, 302 - 304 G306 - 308 G309 - 311	Kora is still in jail The Miss asks for a story Toncë says to get the taperecorder, he'll tell the story
	C115 C116 C117	G1 - 305 G203 G191, 207	Tonce tells the story He comments on Yusup's bravery He comments on the crocodile's
	C118	G213 - 314	length He affirms the story is complete
	C119	G315	and true He finishes

FIGURE 1

The List of the Chronological Sequence Correlated with Grammatical Sequence

2.4.2 Semantic Vectors and Slots of the First Fourteen Pieces of Information

In the list below are indicated the semantic vector(s) and the slot in that vector (or each of the vectors) in which a piece of information occurs. We have selected the first fourteen entries from the Chronological Sequence of Figure 1.

C2	women to jungle	Premar in Human-food-gathering vector Premar in Identification vector
C3a	Eng and brothers in canoe	Nuc in Human-food-gathering vector
C3b	Eng netting shrimp	
C4	Deki wants to go home	Premar in Term-human-food-gathering vector
C5	Deki paddles fast	Nuc in Term-human-food-gathering vector
C6	Eng loses balance; she and net fall into river	{Counter to Term-human-food-gathering vector Premar in Con-human-food-gathering vector
07	Eng continues netting shrimp in river	Nuc in Con-human-food-gathering vector Premar in Croc-food-gathering vector Premar in Human-tragedy vector
C8	croc grabs Eng at waist and pulls down	(Inner premar in Croc-food-gathering vector Final mar in Human-food-gathering vector Inner premar in Human-tragedy vector Premar in Contest vector
09	Deki grabs Eng's neck and pulls up	Counter to Croc-food-gathering vector Counter to Human-tragedy vector
C 1 0a	cance moves to deeper water	Middle slot in Context vector
C10b	Deki is almost pulled in	
C11	Deki lets go	{Final slot in Contest vector Inner premar in Human-tragedy vector
C12	croc takes Eng	(Nuc in Human-tragedy vector Nuc in Croc-food-gathering vector Nuc in premar in Witchcraft-accusation vector Final slot in Bewitching vector (only for some people)

The first clues for identifying the slot and vector of a piece of information are often found in the text itself. This, however, is incomplete and must be <u>supplemented by eliciting information</u> from a language helper. <u>Developing a text</u> avoids some of the hazards of eliciting data out of context. Such text development may be done systematically for all kinds of analyses: for verb analysis, for clause analysis, for morpheme identification, for establishing the chronological sequence, or for identifying a semantic vector. Good eliciting techniques will include observations not only of what the language helper says or does not say, but also of any of his relevant body gestures (which sometimes include the slightest movement of an eye or even of a big toe). Most of these sources have helped in the present analysis.

In the above list there are examples of semantic structures which are of special interest:

- 1. It would seem probable that in some circumstances only one piece of information can be found filling a single slot in a single semantic vector. There are, probably, two examples which, as a total, occur in one slot in one vector in this narrative: C4 Deki wants to go home and C5 Deki paddles fast. The first occurs in a premargin slot in Term-human-food-gathering vector and the second in the nucleus of that vector. It might very well be that in a retelling of the story, especially from Deki's point of view, that his wanting to go home will also be found as part of a Being-ill vector (he didn't feel well so wanted to be at home), or possibly of a premargin in a Playing-marbles vector (he wanted to go home to play marbles).
 - 2. Elsewhere in the text, some other piece of information may replace another

piece of information in a slot of a vector, so that the two comprise a <u>semantic</u> filler class of information. C2 women to jungle is in a premargin slot in Human-food-gathering vector in which the nucleus is <u>getting sago</u>. Although <u>getting sago</u> does not appear in the text, it was elicited by asking why the women went to the jungle; everyone in the community knows that when women go to the jungle early in the morning there is a very high probability that they are going for sago to bring back for food; there is no need to mention such common knowledge. C3b <u>Engarina</u> netting shrimp is nucleus of a Human-food-gathering vector for which the premargin would be <u>Engarina</u> and brothers go to the river. We see that going to the jungle and getting sago, and going to the river and netting shrimp are both premargins in a vector of Providing-sustenance-for-people, and hence are both members of the same semantic class (just as the three little cats and those interesting birds are members of a grammatical class of Count Noun Phrase).

3. Two pieces of information may simultaneously fill a single slot in a vector. This is illustrated by C10a and b canoe moves to deeper water and Deki is almost pulled in as filling a middle slot in the Contest vector.

Another example is C8 crocodile grabs Engarina at waist and pulls down and C9 Deki grabs Engarina's neck and pulls up which together fill a premargin slot (followed by at least two more slots in sequence) in the Contest vector. Note, however, that in addition C8 is a part of several other vectors, and C9 is a part of a still different set of vectors.

- 4. A single piece of information may simultaneously fill the end of one vector and the beginning of another: C6 Engarina loses balance and she and her net fall into river is something of a pivotal event in that it stops her brothers from ending the food gathering and renews the food gathering. It serves as the end of one vector and the beginning of another. It is the bridge by which there is a change from one to another.
- 5. A single piece of information may be at the intersection of a number of different vector. There are probably seven examples of this, with the most prominent one being C12 <u>crocodile takes Engarina</u>. The nuclei of at least three vectors meet here: Human-tragedy, Croc-food-gathering, and the nucleus of a premarginal constituent in the Witchcraft-accusation vector. The bracketing of the slots and vectors in the above list indicates this phenomenon.

Another feature of interest involves C7 Engarina continues netting shrimp in the <u>river</u>. The intersection of two of its vectors sets the circumstances for the beginning of the Human-tragedy vector.

2.4.3 The Relationships of I-Thou-Here-Now

Every speech event which is part of a communicating system has underlying it (whether explicit, or implicit only) four features of prime relationships of that event to its behavioral and physical context: (1) the presence of a speaker (whether or not identified in relation to a specific individual); (2) the presence (immediate or remote) of an addressee; (3) some relation of the speech event to the time of utterance (now), often with further implied or stated relations of a reported

event to time; (4) some relations of the speech event to the place of utterance (here), often with further implied or stated relations of a reported event to place. Often one or more of these are established in the early setting of a narrative. In this particular narrative, however, the last part of it (G306 - 315) is a very important semantic section, since it is here that some of this information is found.

Turning, now, to the narrative under analysis, we look at certain pieces of information within it, in order to find the features of underlying prime relationships mentioned above. Three of the four may be seen at the end of the story.

The first piece of information to occur in this section is <u>afo</u> 'me'; its referent is Toncë, who later declares himself to be the narrator (G311). The second and third pieces of information both refer to Carol Erickson; she is identified (G306 - 308) as the one who asked Toncë to tell the story of Engarina.

The semantic nucleus of this section is G311a <u>I</u> will tell it to you; in it Toncë declares that he will be the narrator and that Carol will be the addressee. A piece of information that is mentioned by Toncë in G310 concerns the radio. In this text, however, the referent to radio is Carol's taperecorder. The semantic event of getting the radio is part of a taperecording vector, and in this context the "radio" is a secondary addressee.

The place-in-time relationship is established as being between the promise to tell the story (G311) and the finish of the total narration event (G315). Between these two points of reference for time occur the "now" time expressed in G312 This is my story.

In addition to establishing three of the four features of prime language relationships in this part of the narration event, Tonce also assumes the responsibility for the truth of the story in several places: G309 I know it; G311b because I know it; and G313 - 314 It's true.

The fourth feature of the prime relationship of speech (place-in-space) is identified in the first sentence of the narrative: G1 <u>We were there</u>. The referent to there is a place away from Carol's house (where the narration event took place), and actually is more in the center of the village than is Carol's house.

Toncë's narration is a beautiful, coherent semantic whole.

This, then, is a set of observations which point in the direction in which we must go in order to integrate into a coherent theory the problems of meaning, seen through the tagmemic assumption that the semantic hierarchy is not structurally the same as the grammatical one.

3.0 The Grammatical Hierarchy

In this paper we are presenting the grammatical structure of the Isirawa text only very sketchily. It is developed only in that degree of detail which may be sufficient to show the non-isomorphism of the semantic hierarchy and the grammatical one. Note that grammatical classes differ from semantic classes, that grammatical roles (situational functions) differ from semantic roles (situational functions), and that grammatical sequences are of an entirely different nature from semantic sequences (semantic vectors).

We present, in Figure 2 (see Fold-Out page at rear of this article), the structure of the grammar of the narrative in the form of a tree. Such a diagram is inefficient for many purposes in tagmemics in that it is very redundant (since the same tagmeme, e.g. Subject-as-Actor filled by NP, occurs at any number of places in the tree, whereas in a set of tagmemic formulas it would occur only in a clause root formula where, in addition, the formula would occur only in a clause root formula which would also show other classes which fill that slot). The tree diagram, however, does have the advantage of showing more directly than do the formulas many layers of intermediate constituent relationships which occur within a single discourse. The reader must bear in mind that the present analysis is only in an early stage so that, especially in the higher levels, the hypotheses are very tentative. (Perhaps they might be compared to a phonetic transcription of a preliterate language by someone after a few hours of field work.)

A tagmeme, in Figure 2, is represented by branches and nodes of the tree. The label above a branch represents the slot, the label below the branch, the role; at the node itself is the class of constituent which manifests the tagmeme. More work needs to be done to designate certain subcategories relevant to various filler classes, therefore the category grammatical feature (of a four-cell representation of the tagmeme) has been omitted. (For us, category has to do with agreement constraints at all levels of the hierarchy. For example in English (1) the number of the noun determines the number in the verb, and (2) the gender of the noun root determines the form of the third person singular pronoun in various sentences of the discourse.)

An explanation of the labeling of some classes in the diagram may be helpful. When a low level structure fills a high level slot usually it is manifesting several levels at once. We have chosen to identify (i. e. to label) that structure by the name for its lowest level class (e.g. jump in the English sentence Jump! is simultaneously a sentence, clause, verb, and verb root; we would label it in the diagram as verb root). Since the numbers in Figure 2 refer to sentence numbers in the text, the reader may see, by comparing them, that only one small section of the narrative has been developed down to the smallest grammatical unit, the morpheme.

First of all we want to point out, by reference to the diagram, some of the differences between the grammatical and the semantic structures. Consider the grammatical sentence (G10b) Engarina's been taken by a crocodile and another sentence (G11) She's been taken by a crocodile. The first sentence fills a Nucleus-as-Statement whereas the second fills a Margin-as-Reinforcement. The two sentences are constituents in a sentence cluster. However, the two grammatical sentences are just one piece of information, a single event. That event is not a constituent of a sentence cluster (i. e. of a grammatical unit) but rather is the nucleus of the purposeful (as stated by Isirawa speakers) behavior of the crocodile (which we labelled Crocodile-food-gathering vector) as well as the nucleus of several other semantic vectors already discussed in Section 2.4.2. C12: This gives a sample of the kinds of differences found between the two hierarchies, and points in the direction in which further study must go.

Other interesting features are seen in the diagram. Social interchange is a prominent feature of higher levels of the hierarchy. Challenge-response characterizes the role relationship of a number of constituents, most of which are constituents of an exchange. Usually these constituents are reported monologues (G10-11, 65, 86-87) which include the speech setting (e.g. Rewi called). However, G89-90 (Matiasa, kill me with your spear. Cut me with your machete so I die) is not a reported monologue, but rather is simply a monologue--i. e., without the speech setting. Yet the label for monologue does not appear explicitly at this point on the diagram; the reason is that the notational system (as we indicated above) lists by convention the label for lowest-level constructions of the hierarchy when several levels in a portmanteau class of constructions (across levels, i. e. a portmanteau level) are simultaneously manifested by a single string of words. Here, the term monologue is implicit, by this convention, when the label Imperative Sentence-Cluster (the lowest level of the portmanteau) is given; the unlabelled higher level is directly deducible from the next highest element of the tree.

Still another class serves as a constituent in an exchange: Reported Action (G88). No word is spoken, however, so it is neither a monologue nor a reported monologue; the narrator merely <u>reports</u> the response (Kostana backed away). It is marginal to the nucleus in which Maria asks Matiasa to kill her. Then, in the next exchange, not even a report of the action is given; the response is entirely missing in the grammar.

Even though the physical response itself is <u>not a part of the grammar, it is in</u> the semantic structure of the <u>narrative</u> in that it is a marginal part of the complex Grieving vector; many parts of the Grieving vector are actualized in the narrative. As a commentary on the absence of a verbal filler of this response slot we later learned from Toncë that Matiasa responded appropriately: he did nothing. (And 'doing nothing' from the speaker's point of view becomes structurally a <u>positive zero</u>, in contrast to overt forms, in a way reminiscent of significant absences of material on the classical lowest levels of grammar.)

The preceding analysis supports our belief that there are several different structural units above sentence. Certainly the Narration-Margin-as-Closure is a separate grammatical unit which contrasts with that unit which is the Story; it also contrasts with the Story-Margin-as-Closure, and the Story Closure is certainly in contrast with that part of the story which we have called Super Section.

One final point of importance, seen on the diagram: Roles may be doubled up, i. e. two roles may be simultaneously present for a single constituent (portmanteau roles, in contrast to the portmanteau levels referred to earlier). For example, the Reported Monologue of G10-11 has two roles at once--that of response to a former construction, and that of challenge to elicit a further response. (The notation for dual role is a vertical stroke between the two roles, e. g. Response Challenge.

For G10-11 then, we suggest that Rewi's announcement that Engarina was taken by a crocodile is (in its first role) the response to the challenge of the noise (one calling) that came from the river; simultaneously, in dual function, it was the

challenge that elicited the response shown by the Clause Root 'We felt sad.'

4.0 Mapping of Semantic Ordering

We now summarize our findings with regard to mapping the chronological sequence onto the grammatical sequence. The two sequences are almost isomorphic. In other words there are neither reversals of the chronology, nor "flashbacks", signalled by such devices of relative time as before or after.

The ordinary devices in Isirawa for indicating chronological sequence in the grammar are first of all time words and phrases such as pinio 'morning', sopi ye irowarimāmi 'noon', pini 'night', peririnai 'that day', ara 'today', eva 'one day from the present (yesterday or tomorrow)', inasi 'two days from the present', niva 'three days from the present', and pianiva 'four days from the present.' These and a few others are cross referents to verb affixes such as $\{\underline{ri}-\}$ 'inceptive', ari-'subsequent', $\{\underline{mai}-\}$ 'continuous' and $\underline{ma}-$ 'sequential.' Other useful grammatical devices for indicating the chronology are the verbal affixes of aspect, both time oriented such as $\{-\underline{mi}\}$ 'far past complete', $\{-\underline{mai}\}$ 'far past incomplete', $\{-\underline{mo}\}$ 'yesterday past complete', $\{-\underline{mapi}\}$ 'yesterday past incomplete', $\{-\underline{a}\}$ 'today complete', $\{-eto\}$ 'today incomplete', and $-\emptyset$ 'future incomplete', and non time oriented such as $-\underline{i}$ 'complete' $\{-\underline{e}\}$ 'incomplete', $\{-\underline{a}\}$ 'neg complete', and $\{-\underline{e}\}$ 'neg incomplete.'

These, together with the signalling of singular, dual, or plural of subject or of object or of both in a verb root of many verbs, provide an extensive and efficient mechanism for mapping chronology onto the grammar.

An unambiguous marking of chronological sequence can use <u>sikrime</u> 'first' to mark one action which then is followed by a second action marked with <u>ari</u>- 'later (or some equivalent).'

We now present a few exceptions to the isomorphic mapping. The first is by embedded narrative (in contrast with the direct simple narration just discussed). For example, a speaker may talk or think about an action which took place at an earlier time referring backwards to it and thus in effect reversing the chronological sequence. This is done in G13-16 in which Tonce and his companions were wondering which Engarina had been taken. The wondering is marked for far past time (the point of view of the narrator); later on in the narrative the time is identified as being about noon, so with reference to noon, the women's going to the jungle is a reversal of chronology. That is marked merely by the time phrase piniowaiava 'this morning, early.'

If, however, a person is <u>thinking</u> of two actions in the past, we learned that those two need to be in chronological order <u>in reference to each other</u>. Carol asked Toncë to suppose that Hiroko had gone to Amsira that morning and that Philip had gone to Amsira the day before. Toncë invariably reversed the order to 'Philip went to Amsira yesterday; Hiroko went to Amsira this morning.'

Another instance of reversal is in elicited data involving cause-effect. When cause-effect follows the chronological sequence, no markers occur. However, when it

is reversed, the marker <u>pe</u> is used to mark the cause. The unmarked order 'It rained last night. The path is slippery. The child fell down.' contrasts with the marked order: 'The child fell down. <u>Pe</u> (because) the path is slippery. <u>Pe</u> (because) it rained last night.' On the other hand we have one example of marked cause-effect which does follow the chronology. It occurs in an expanded form of the text concerning the women's going to the jungle, <u>because</u> the house was empty (of food), <u>therefore</u> they went to the jungle early in the morning. Further study of such multiple uses of particles is needed, with an attempt to find the subtle contexts in which the differences are appropriate.

There is also an instance in the text which at first seems to be a reversal of chronological order, but which probably is simultaneous action. The English translation given is a good free translation: G37 Deki had to let go. G38 Deki himself was almost pulled in by the crocodile. We at first assumed that Deki let go after he was almost pulled in, but that is not necessarily so; it may mean while he was almost being pulled in, representing simultaneous action. A more morpheme-by-morpheme translation helps to show, G37 Deki began releasing. G38 Deki (object) down-pull-dual object (verb) crocodile this (subject). This means that the crocodile was now pulling down not Engarina only (as is the case in G35b where the verb is marked for singular object), but also Deki as well. The simple change from singular object to dual object in the verb lets everyone know that the crocodile is winning the contest; focus is temporarily on the struggle of both children. While both were struggling, Deki began to let go. It may still be possible that the two sentences are in cause-effect relationship, but until that hypothesis has been fully checked (by testing for the set of paraphrases which can represent the same event), we will continue to hold that it is merely a specially-marked kind of simultaneous action.

This, then, leads us to a general conclusion about mapping simultaneous action onto the grammar. Even though we had seen that a language may tolerate only a very few reversals of the chronological sequence, it nevertheless still seemed to us that every language must certainly have simple, direct means of showing simultaneous action. We therefore were very surprised, indeed, to find that Isirawa has a very low tolerance for simultaneity, along with its low tolerance for chronological reversability. There is only one instance in the whole narrative where we can identify a construction which is marked with any lexical item that can be directly translated roughly as 'while'; it is G48 While crying, they began to run with the news.

In this text, the most unambiguous way of indicating simultaneous action is by using dual or plural subject or object (as was indicated at the beginning of the paper). Once again, for test purposes, Carol elicited a response from Toncë. She tried to indicate that Philip finished making an arrow at the same time John finished making a sago fork. Toncë asked the inevitable question, "Who finished first?". When Carol explained that one couldn't know, Toncë then replied, "First Philip finished an arrow; John later finished a sago fork".

From reactions such as these, we have concluded that Isirawa people are reacting

to the fact that very seldom are two actions absolutely simultaneous: How often would the making of an arrow and a sago fork be started or finished at precicely the same moment? One either begins or finishes before another. Sequentiality is expected and hence is marked as such.

There is a particle <u>porima</u> which seems to mark a time relationship closer than the unambiguous sequence of 'first this was done, then followed...'. Perhaps it might be translated 'until' or 'finally.' It is used in G36 to designate the movement of the canoe into deep water while the crocodile and Deki pulled at Engarina. It is also used in G198 to designate the falling off of part of the corpse while the crocodile was biting at it.

Our hypotheses regarding the mapping up to this point are relatively solid; those which follow are tentative, indeed. The following examples of clause sequences certainly have to do with etic simultaneous action and we note that the verb in each clause usually, but not always, has the same tense-aspect affixes, or the same lack of them. G35 Deki is pulling up and the crocodile is pulling down. Neither of the verbs has any affix at all; they are simply verb roots. In G22 the children are riding in the canoe and Engarina is netting shrimp. The two verbs 'riding' and 'netting' are both in today-past tense. In G9 Toncë and his companions are hearing Rewi calling and are hearing other talking noise from the direction of the river. This is a close-knit cluster of three clauses in which the first two verbs are marked for far-past-incomplete, but the third verb (whose subject is the noun 'speechor-noise') is simply a verb root--unmarked for either tense or aspect.

A very careful study must be made of clause sequences having to do with etic simultaneous action in contrast to those with etic sequence of actions to see if there is any set of features regarding co-occurrence of affixes and particles which is characteristic of one kind of action versus the other.

This paper, we now both see (from both eyes), presents some of the data we have concerning the mapping of the chronological sequence onto the grammatical sequence, and the resultant hypotheses. A brief final summary: (1) The primary view of time in Isirawa is chronologically ordered. (2) Reversal of the semantic ordering is allowed only under limited conditions. (3) There is only a very narrow world view of simultaneous action—including that which is implied by the crocodile seeing the man with one eye and the boy with the other eye.

1. Ne pua-vase menavro. 2. Korano Enusa sao pë-miresësi sao ma we there-loc pl. are village leader this Enusa house dl-to place house vo. 3. po-miresë-sănai. 4. Ne po-menavro. 5. E nais pe-praru-mi. 6. E floor om tr-to place-i we-tr-pl, are I below sg-sit-fpc mana pema-casru. 7. Kaca warara kawasa ma poë. 8. Ne pe-vase menavro. glass wood tree type this doing we ?-loc 9. Ne marifa pe-te-mai Rewi me porima-wetai-pai srife nie-se rau. 10. Rewi ? pl-hear-fpi Rewi this tr-call-fpc noise there-? talk Rewi maiye-vr-u-wa. 11. Eriya ne-rau-pai Engarina eriya maiye-vr-u-wa. 12. Ne he-talk-fpi Engarina crocodile tr-take-f-tpc crocodile tr-take-f-tpc we

woikeri waro. 13. Serfiana mam-na-werapoa, Engarina mai, pinio-wai-ava. 14. Eng-Serfiana tr-dl-go up Engarina this morning-early-? Engsad ? arina Woreo pe-vase ma-rape-nuai-mi. 15. Engarina Woreo ma-vr-u-ani? 16. Petiwefe arina Woreo ?-loc neg-pl-think-fpc Engarina Woreo neg-take-f-Qm because peni-cena-werapoa ave cava. 17. Rewi ya maso-rimami. 18. Warë-ni? 19. Engtr-dl-go up mother with Rewi ? here-come what-Om Engarina maiye-vr-u-wa nenowe mor-e-na-i. 20. Kartena maseta, Engarina Kalim. 21. arina tr-take-f-tpc we ask-m-dir-c Karten daughter Engarina Kalim ne-vr-u-wa. 22. Nitau vaso, vrerin-o rairai we vruto, Deki ma, Eriva crocodile he-take-f-tpc canoe loc pl,ride-tpc net om work Deki this Benifasa ma, Engarina. 23. Deki mai aro-pe-rarau-mi, puare-teres sao Benifasa this Engarina Deki this frus-sg-talk-fpc begin-pl,go house om? 24. Mace-raräu-mi mri mace-raräu-mi napni, navsra voefa mase. 25. Nitau afafa repeat-talk-fpc one repeat-talk-fpc two three ? here canoe fast cerupă-pi 26. Poarin-cerupă-ë Engarina me pupue-pe-fausa-mi 27. sg, paddle-fpc begin-sg, paddle-i Engarina this tr-sg-loose balance-fpc Rairai u we naipe-wänëena-mi. 28. Tivu vase pese mana-pi, tokrime maso, net land om down-sg,enter-fpc Tivu loc ? sg,fall-fpc until here apai-so, emusitifa-so. 29. Pe-vase rairai ofe porima-vr-u. 30. Eriya chest-? waist-? ?-loc net ? tr-take-f ma-rase wacama vase. 31. Sr-u-mi 32. Eriya naipe-we-ru-mi. 33. sr-u-mi grab-f-fpc here-? waist loc grab-f-fpc croc down-pull-sgo-fpc <u>Deki me puepim-cokäk-ru. 34. Pueva se sr-u-mi ofi vase. 35. Deki ye</u> Deki this up-sg, pull-sgo neck ? grab-f-fpc throat loc Deki ? puepim-cokäk-ru eriya naipën-cokäk-ru. 36. Porima nitau ve pevave noewëup-sg,pull-sgo crocodile down-sg,pull-sgo finally canoe om from it there-trpim-tireriowi, oriya ya poe. 37. Deki ye pope-tumo-mi. 38. Deki yo naipimdeep ? doing Deki ? begin-release-fpc Deki ? down-sg, cokäk-äsi, eriya mai. 39. Deki ye Engarina tum. 40. Momoe-pëmä-vr-u-na-i pull-dlo crocodile this Deki ? Engarina release here-tr-take-f-dir-c 41. <u>Gecevau pën-mërapä-pi nitau vase a-cerupä-pi, u wavai. 42. Peso cän-mërapä</u> ? dl-run-fpc canoe loc dl-paddle-fpc cry for ? dl-run-fpc -pi sao, no-käusi-na-i warë-ni? 44. Engarina eriya nitau ve. 43. Sao house there-anchor-dir-c canoe om house what-Qm Engarina croc maiye-vr-u-wa. 45. Omawa-saro? 46. Niava-soce. 47. Popo-sri niava-soce, where-Om there-? tr-take-f-tpc root-real there-? muiriye-vr-u-pai. 48. Taka u we, finava porim-merisi. 49. Rewi ye pese wetaihere-take-f-fpi while cry om news tr-pl,run Rewi ? ? callpä-pi, mava-pue-fai puaso. 50. : ye pua-naponefe pera-pimo-mesine. 51. there-fpc here-there-to there men ? there-from ?-tr-pl,throng Mekeri. 52. Puefa sao täte nipamui-mi. 53. : E ye moeri-mamomesi, neni-aso. there house just empty-fpc men ? here-pl,arrive river-? WOW 54. <u>Neni-niavao pe miris-na-mi</u>. 55. <u>E titrariya ve itoti ye tai</u>. 56. <u>E</u> river-there ? pl,run-dir-fpc I follow ? crutches ? take

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pese suwe-mi niaso. 57. U we pevau maca-ni. 58. Oma-ro? 59. Engarina
? sg.go-fpc there cry om ? cry-pl why-Qm Engarina
eriya maiye-vr-u-wa. 60. <u>U</u> <u>we pevau maca-ni</u>. 61. <u>Maria mai Kartena u</u>
crocodile tr-take-f-tpc cry om ? cry-pl Maria this Karten cry
we pevau maca-ri. 62. Maria me kamar ai fe aro-rapi kifara-nive. 63. Pai,
om ? cry-dl Maria this room ? to frus-return enter-?
moepi-tireritav. 64. Kora mai maso-rimämi. 65. Nona sao we ena-vase e mokan,
here-return Kora this here-come miss house om front-loc I ask
warë-ni? 66. Afo Maria ne-ruse-ya. 67. E pevave terapa-i. 68. Afo mekeri
what-Qm me Maria she-talk bad-tpc I from it sg, return-c me bad
ye rau-va. 69. Koro me terän sao, pepe-samru-po-mi. 70. Pe Maria mani,
? talk-? Koro this return house ?-stay-?-fpc because Maria said
afo mäma-rau-va. 71. E wo-masëta-i ye mi we rarau-mo, viyesa. 72. Koro
me tr-talk-? I my-daughter-? ? you om talk-ypc another culture Koro
me terän, pepe-samru-po-mi. 73. Taka pe niase Mari ye mekeri esa mai. 74.
this return ?-stay-?-fpc while ? there Maria ? bad dance this

Kora pama-savri. 75. Wo-masëta ye pa-ne-rarau-mo viyesa. 76. Kartena
          my-daughter ? there-he-talk-ypc other culture Karten
mai, Karten pope-nasroa-mi Kora ma novao vo fä-fras-si-yeye. 77. Kora me
this Karten tr-pl,grab,sgo-fpc Kora this machete om nm-cut-m-? Kora this
pevave terän sao. 78. Pepe-samru-po-mi. 79. Efa sao we ya poe. 80. Kartena
from it return house ?-stay-?-fpc his house om ? doing Karten me naife aro-pi-praru-nafe. 81. Pema vaso peve tropusä-mai ofi vaso.
this down frus-able-sit-? upper chest loc ? grief-fpi throat loc
82. Rarapona pevo tropusä-mai. 83. Pai. 84. Aro-rapimane tätrosäunai ye. 85.
   heart ? grief-fpi no frus-feeling throat ?
Pai. 86. Pevase Maria mai, Kostana afo po-fanyas-u novao vo, mui-werap.
no then Maria this Kostano me tr-cut-f machete om here-sg, come up
87. Afo posi, afo po-posu sapara-osi. 88. Rirarinafe Kostana. 89. Matiasa afo
    me kill me tr-kill arrow-? peer Kostana Matias me
posi, sapara-u. 90. Afo po-fanyas-u novao e pue-keran. 91. Pese mämi. 92.
kill arrow-with me tr-cut, sgo-f machete I tr-die ? stay
Enä pe käus-mi. 93. Kartena sao we, onä vase pakara wapui. 94. Ne pevau
front ? lean-fpc Karten house om front loc fence
me-te, taka u we pevau maca-ni. 95. :E marari ye sowek, Korano mai, Wakera
?-hear while cry om ? cry-pl men everywhere ? all Korano this Wakil
mai, Korano me puese mämä-na-prari-ye. 96. Kartena maica peva manavräu. 97.
this Korano this there tr-pl-sit-? Karten with ? pl,stay
Titine porimä-vratri-mai. 98. Peti ma Yosep aro-pimä-ne-srowa-i, peti mai pe
things tr-sg, break-fpi box this Yosep frus-tr-pl-seize-c box this ?
noe-fuvas. 99. Cero-pine-toreru-mai Yosepe, cero-pine-toreru-mai pe se-räsi-mi.
there-throw ag-tr-try-fpi Yosepe ag-tr-try-fpi ? ag-break-fpc
100. <u>Dapura mai, meja mai pe se-räsi-mi</u>. 101. <u>Yosepe aro-pimā-ne-srowa-i</u>. 102.
    kitchen this table this ? sg-break-fpc Yosep frus-tr-pl-seize-c
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mai, nitau wau pi-mänänëya-i. 145. Cevau nie-nisi-o fita i ye. 146. Mi
this canoe with able-dl,ride-c ? there-look-tpc corpse ? ? you
rara-so wa-pi, peso ce-nënia-pi. 147. Korneli mai, pevau moe-mä-nisi-pai fita
road-? look-f ? dl-go-fpc Kornelia this ? here-tr-look-fpi corpse
mavai ye, Setema ma-se. 148. Pu we mekeri, pori-masu. 149. Sumero
this ? Setema this-loc rain om bad tr-fall
                                                 leaf kind om
a-tämos peo-titiruwona-ye. 150. Korneli me puru we peo-titikrima-na-i ye.
dl-pluck tr-cover, sgo-? Kornelia this basket om tr-cover, plo-dir-c ?
151. Korneli me sasina. 152. Peso ce-nënia-pi, Setema, pu we nämi. 153.
     Kornelia this sick
                            ? dl-go-fpc Setema rain om is
Pu ne ca-käupä-pi e Fasiofe se. 154. Pese cä-nënia-pi Setema. 155. Yusupa
rain they dl-wet-fpc it Fasiofe loc ? dl-go-fpc Setema Yusup
     we peso peri, arikama. 156. Nitau we no-käus-na-i kaukauk. 157. Sao
house om ? is little canoe om dl-anchor-dir-c go up
vase, anive tup, tarasa mai. 158. Korneli ye nuerau-mami. 159. Yusupa
loc fire build under house this Kornelia ? eves-are
                                                             Yusupa
    nise momoe-pëma-rana-i. 160. Emäna, Yusupa me nësamore yof atri. 161.
this lie here-tr-sleep-c
                        ? Yusup this dream story stay
Korneli nuerau-pemämi. 162. Fito we pese temosa-mi. 163. Kornelia mai,
                         hungry om ? feel-fpc
Kornelia eves-are
                                                     Kornelia this
pewase mämi. 164. Kornelia mace-te-mi, mri pu pä-tavr-ia-na-mina. 165.
          Kornelia repeat-hear-fpc one water dir-throw-li-there-?
          pe rarau-na-mina, BHUAH! 166. Mace-te-mi, napni, navsra o
water noise ? talk-there-? splash repeat-hear-fpc two three until
mase. 167. Korneli me marape-caurasipä-pi 168. Sosoa ma fafaina ye.
here Korneli this ?-sg, walk around-fpc vegetables this pick ?
169. E pome-nesäi. 170. Afo fitompa. 171. Me-caurasi-pai. 172. Maise
     I tr-wrap
                 me hungry
                                      ?-sg,walk around-fpi here
poe-rirari-na nunuwera-u pe tavr-ia-na-mi. 173. Poe-rirari-na pu we pese
tr-peek-there eyes-with ? throw-li-there-fpc tr-peek-there water om ?
pä-piasi-na-mi. 174. <u>Kornelia nuwera we pä-piasi-na-mi</u>.
                                                        175.
dir-throw wide-there-fpc Kornelia eye om dir-throw wide-there-fpc
     we warafri sarava krasapo-mi. 176. Kornelia muipe-merapa-pi. 177. Yusupa
water om tree kind leaves touch-fpc Kornelia here-sg,enter-fpc Yusup
    pese nuwi-mi. 178. Yusup, Yusup pue-mawerap. 179. Fite niava reto?
this ? shake, sgo-fpc Yusup Yusup tr-wake up corpse there Qm
180. Eriya cevau pu we tavr-ia-no. 181. Yusupe puepe-werapo-mi. 182.
     crocodile ? water om throw-li-tpc Yusup tr-wake up-fpc
Nisa vason-pice, teni me, pese kerarisa-mi. 183. Watowatëna. 184. Naipe-tänëpä-
lie loc-? foot this ? cramp-fpc
                                     numb
                                                           down-go down-
pi nepara vase, māmāke. 185. Kārawai ye tai, sapara pima-riri ye. 186. Eftava
fpc bench loc stay spear ? take arrows tr-not take ?
                                                               alone
naipe-tänepa-pi, nitau vase. 187. Ni raririya. 188. Nitau vase pesenapi, Topati
down-go down-fpc canoe loc body compelled canoe loc is Topati
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ani vau mare-mänapä-pai. 189. Ereräfape muirimäne-sänäsupa-ë. 190. Eriya,
                           big thing here-come at-i
mouth ? tr-come-fpi
viso-sri. 191. Tokrime maise maso niese niaso eriya arowam-ance. 192. Pewase
big-very until here here there crocodile red-it
marape-nisi-mai, eriya mai, te mave irësriyane. 193. Pätäna
                                              palm stem this
         crocodile this floor this like
rësriyana ufufa mave tämäsine, mämäriye niene, pevau manavräu. 194. Fita pe
like grass this kind each there ? pl.are
pä-nane-vrumainape. 195. Yusupa nuerau-wa, cana me porimä-vuakru. 196. Pe
                      Yusup eye-tpc hand this tr-cut.sgo
dir-pl-eat meat
mare-tavr-uo-pa, mrin pinesreus, wina me Yusupa nuerau-wa, pori-mavrau. 197.
tr-throw-hea-there another grab head this Yusup eye-tpc tr-pull off
Wina me sraf, pe mare-tavr-is-pa mrin pinesreus minama enapari vas, pevau
head this off ? tr-throw-li-there another grab another mouth ?
mämotuse. 198. Pese motusä-mi, porima wisi vase mämä-fanyas-u-wa, fanyak, tene
         ? cut-fpc until waist loc tr-cut-f-tpc cut foot
cut
me pai. 199. Patina mämä-ni-pëmari. 200. Aufa mri me pai. 201. Wina
             chest tr-body-is
                                      upper arm one this no
mai, mavau pe fanyas-u-mi, fanyak. 202. Ai aiso ni-pi-matamoi tapiri ye se pai,
this ? ? cut-f-fpc cut
                                  ? right body-able-is left ? ? no
cana mai. 203. Yusupa me ëmri sose, sisina. 204. <u>Kä-krapusare masamän</u>.
hand this Yusup this another ? scared nm-seize didn't
          <u>pe masakreräs. 206. Eri perari pe-vase pätäna mave</u>
205. Eri
     crocodile ? pl,afraid crocodile are ?-loc palm stem this
irësriane, te mave irësriane. 207. Yusupa, fifiraso-pice, afoare mare-nisi-mai
like floor this like
                                 Yusup fast-? he tr-see-fpi
eri viso pen-po-motusa-mai-na, mase tokrime amomitenaso niese, mana niretonan,
crocodile big who-tr-cut-fpi-there this until wall there here wallboard
     tokrima niretonaso. 208. Pen-imä-motuse, marape-nisi-mai Yusup nitau we
floor until wallboard who-tr-cut ?-see-fpi Yusup canoe om
toferi märanapa-ë, efoare säfa porim-tawakru. 209. Peva nai-poe-nakrasupa-pi.
               he head tr-turn
                                             ? down-tr-dive-fpc
210. Yusupa me sisina ye, pu vase kävok. 211. :E nauki cavau pipaipe
     Yusup this scared ? water loc in
                                             men two
masasi. 212. Efoare mare-toreru, fita me urisai tavr-uo-na-mi, pätintate
            he tr-try corpse this land throw-hea-there-fpc chest
kill
mai. 213. Yusupa me cevase pë-terän, Korneli me tai. 214. Wah, fite
          Yusup this ? tr-sg, return Korneli this take
                                                          wow corpse
niawa seri! 215. Cevau pë-nënia-pi peso ce-nënia-pi. 216. Kornelia pe rarasi-
there is
                 ? tr-come-fpc ? dl-come-fpc Kornelia ? talk-fpi-
mai-na wanis. 217. Ariye-mor-u-na-pi, wanise poma-rarasi, oma-raro? 218. Marorëce
                 tr-ask-f-there-fpc clear tr-talk what-Qm
   nai-ce-nënia-ne, <u>Upävu ani</u> <u>ye nuerau-ri mamaina-pai e pese Yusupa niseno-</u>
this down-cl-come-? Upavu mouth ? eye-? almost-fpi I ? Yusup tell-talk-
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rarău-na-i, ani po-mamăn-teran-ë, cerice ara pe na-vr-u-po, pătintate ce. 219.
there-c said tr-dl-go home-i ? today ? ?-take-f-Qm chest that
Pese Yusupa me wo-srifa pimavritowe, ne pë-teran, puaso, ne patintate pe pi-na-
? Yusup this my-talk agree we tr-go home there we chest ? able-dl-
kruo-na, cane mamreso. 220. Ai aiso nene-kruo-na, teni e pai, wisi vase
put in-there hand one side ? right dl-put in-there foot ? no waist loc
fanyas-u-mi. 221. Ne nän-kruo-na-i. 222. Cecevau a-vr-u-pä-pi, ne Upävu
               we dl-put in-there-c ? dl-take-f-here-fpc we Upävu
ani yau puar-anämänä Pupuari me. 223. Mi-nani? 224. E Pupuari. 225. Yusupa
mouth ? tr-near Pupuari this you-who I Pupuari Yusup
   perowa. 226. Nai-mirän. 227. Fita maiye-wa-pi-ye. 228. Nitau wau
               down-sg,run corpse tr-see-f-?
this tell
                                                         canoe ?
mä-vr-u-na-i. 229. Pinai fai pe rarau-na. 230. Taki Pupuari ye cecevau pe
tr-take-f-there-c ocean to ? talk-there then Pupuari ? ? ?
mira-pä-pi, u wavai. 231. Ne marape-nisi-mai. 232. E nenefi sao vase
sg,run-here-fpc cry ? we tr-look-fpi I our house loc
sao-sao nue-pemä-mai. 233. E pe naponife pue te, u we porim-maraunapa-ë.
kitchen dir-is-fpi I ? from there hear cry om tr-come out-i.
234. Eni fite maiye-na-wa-pi-ye. 235. Maso rimami, Pupuari ye. 236. Warë-ni?
     said corpse tr-dl-see-f-?
                                    here come Pupuari?
                                                               what-Om
237. Fita maroye-vr-u-pai. 238. Engarina, Yusupa maiye-wa-pi-ya. 239. :E ye
     corpse tr-take-f-fpi Engarina Yusup tr-see-f-tpc men ?
<u>muiri-mämomesi</u> <u>sowek</u>, <u>sao</u> <u>puefe-mamäna</u>. 240. <u>Tivu</u> <u>ani</u> <u>e</u> <u>momoe-pevri-mi</u>. 241.
here-come all house there-stay Tivu mouth ? tr-crowd-fpc
Pa-pakräva puece-pakra-mi. 242. Avi, ë, tëra, puece-pakra-mi. 243. U we,
nm-full there-full-fpc women men children there-full-fpc cry om
nitau so nife, pätintate pe tai, täte sao pune-vr-u-sänai. 244. U we piasa
canoe ? from chest ? take father house tr-take-f-? crv om usual
cerorife, pe-vase na-näusa-mai. 245. Ariye-na-näusa-mai, ariya-canin u we, mani
like ?-loc pl-cry-fpi tr-pl-cry-fpi tr-cry cry om who
pim-pue-krana-pai näfa so nife. 246. Pen-nipimafisri, Fransina, avi sowek,
tr-tr-arrive-fpi sago ? from who-come here Fransina women all
mriave ma-mäna. 247. Piasa cerowa ariye-na-näusa-mi. 248. Pu we pämänapinape
one neg-stay usual like tr-pl-cry-fpc
                                                    rain om continue
pini, pe sä-srävräve pai. 249. Peti ye pu peope na-patäusa-mi. 250. Peti ye
night? nm-break no box? rain during pl-make-fpc box?
susurkanana taiya, apetate perari kanana-pice, pe wine pai amufatate. 251.
childlike short chest is child-? because head no chest
Pini e pu we pini e käm. 252. Ariye-na-patäusa-mi wewep. 253. Ai pi-pinio-
night ? rain om night ? stop tr-pl-make-fpc finish ? ?-morning-
wari päpruo-na-i. 254. Pu we sopi irowas pämenapina, mekeri. 255. Taki, pini
? plant-there-c rain om sun middle continue bad
mave eritapai, varaf. 256. Nomrirauwa polisi me porim-puekriana-pai, Patipema
this sleep dawn
                  afternoon police this tr-arrive-fpi
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mai, Kärärowai mai, minam pe inani ye, mantri mai, e wë etatora. 257. Pe this Kärärowai this another ? who ? medic this I name don't know porim-puekriana-pai. 258. Patipema me, patai ofe Kartena me, säsenaiye, paiyai. tr-arrive-fpi Patipema this gun ? Karten this point bang 259. <u>Eneno tokrim mävao pe rarau-mi</u>. 260 <u>Paiyai! 261. Popese-srowa-</u> chin until place under chin ? talk-fpc bang tr-grab-therena-i, Patipema, pese pis-e-mi. 262. Karten meopäu, can-aufe no-ne-srowa-na-i. Patipema ? hit-m-fpc Karten fall hand-with dir-pl-grab-there-c 263. Pini mave ritapai, varaf, pu we maca u we pese cane-mi pini mai. 264. night this sleep dawn rain om wild cry om ? cry-fpc night this Pinio fase pese väveo-mai Sarme so nifa. 265. Rondapoe pese nia-pi, wakil morning ? ? gather-fpi Sarmi ? from Rondapoe ? come-fpc vice mai. 266. Rondapoe, pese nia-pi maso. 267. Omawa-saro? 268. camata gov't officer this Rondapoe ? come-fpc here where-Qm Niava-soce, nia-vase vr-u-mo. 269. Nitau ve kokra, pese vrerina-mi ariye-nathere-? there-loc take-f-ypc canoe om four ? pl,go-fpc tr-pl-shownëraina-pi, peva vä-vr-u-na. 270. <u>Peso pe vrerina-mi puaso, peva vä-vr-u-na</u> fpc ? nm-take-f-there ? ? pl,go-fpc there ? nm-take-fso, Yusupa me peva pätaprutapina mufätate mai. 271. Peso, ariye-wirisi-mi, there ? Yusup this ? find chest this ? tr-write-fpc wakil camata mai. 272. Rondopoe mai ariye-wirisi-mi, wewep. 273. Nitau vice gov't officer this Rondopoe this tr-write-fpc finish we na-käuwes, kaukauk. 274. Pesoce nani mai irime-ne-fanyas-i mri. 275. Ariya-? dog this tr-pl-cut-m one om pl-anchor climb up na-motes, tëra peva muteya amuteu-na-ye, ayama mai, pesoce muteya mai, cut child ? eat meat eat meat-there-? chicken this ? eat meat this mai. 276. Mekeri. 277. Pe sa-puwo-mi wewëp. 278. Nani pe mot, vegetables this bad ? tr-cook-fpc finish dog ? cut pu vase pe sa-puwo-mi wewëp. 279. Fita kanane ariye-na-komerusa peti coconut oil loc ? tr-cook-fpc finish corpse child tr-pl-plant box vase. 280. Amufatate pe ariye-na-komerusa, pe-naponife teris, sao. 281. Wakil chest ? tr-pl-plant ?-from pl,return house vice mai atä-terana-ë. 282. Ariya-muteu muteiya wewëp, wëiravai gov't officer this tr-go home-i tr-eat meat eat meat finish gov't officers ye atä-teräus-ë. 283. Sokani-vinapä-pi warofa-sri Sarme fe periyerimi. 284. Atä-? tr-pl,go home-i many-pl,go-fpc many-very Sarmi to empty teräus-ë. 285. Pese Patipema ma, Kärärowai ma, maso cen-ritapa-i. 286. Pini pl,go home-i ? Patipema this Kärärowai this here dl-cleep-c mavo cen-ritapa-i varaf. 287. Pinio fase, rarara mai mama-kifara-no Patipem here dl-cleep-c dawn morning ? talk this tr-report-tpc Patipem mavanise, Kartena mai. 288. Oma-ro? 289. Wo-maseta mai Kora me mamo viyesa Karten this why-Qm my-daughter this Kora this ? other raräu-mo. 290. Pinio fase, oto me porim-puekrana-pai tentara me culture talk-ypc morning ? truck this tr-arrive-fpi soldier this

pe-vase napni. 291. Koro me pese na-werina-mi. 292. Tentara mai tätäfa vase, Koro this ? pl-call, sgo-fpc soldier this mean ?-loc two pupuwayao, pe na-werina-mi nifota-ri. 293. E Kore pe maiyemi puwiyao ? pl-bring,sgo-fpc testimony-? he Kore ? is jail maicemi. 294. Te-terapa-wa-ri-ya, Korano mai cave po-ca-prisru-mi. 295. Korano nm-return-see-m-tpc Korano this with tr-dl-discuss-fpc rarara te-teponai vo suwe-mi. 296. E Tivu ye werapoe, etetore-mäne, ne wine talk nm-clarify om sg.go-fpc he Tivu ? go up not know-? his head piasa, efa tëra manovasana werina-pi ye. 297. Sarari vaso, rarara enifota i usual his child ? take, sgo-fpc ? truth loc talk know ? ye, pëmari-suwen, te-teponai ye. 298. Pëmari-suwen, pe waivo pe suwe-mi. 299. ? must-sg,go nm-clarify? must-sg,go ? for ? sg,go-fpc Kartena mai Rumah Pos po-ca-prisru-mi, peririnai. 300. Mi rarara mavao Karten this meeting house tr-dl-discuss-fpc that day you talk käkäu-suwe-waro? 301. Korano mani, pai, e ce nifota i ve suwe-mi, mori-powe. mix-sg,go-Qm Korano said no I that know ? om sg,go-fpc ?-doing 302. O Kore pe maiyemi puwivao maiyemi. 303. Oma-rifas pi-tireri-ta? 304. until Kora ? is jail is when-? able-return-Qm Jayapura ari-weri-ni? 305. E rarara mai, Engarina maiye-vr-u-na. 306. Afo nona Jayapura tr-bring-Qm it talk this Engarina tr-take-f-dir ne mor-i-ya. 307. Mi nafota-meto? 308. Mi wanise poma-rarasi, Engarina. she ask-m-tpc you know-Qm you clear tr-talk Engarina 309. E pese enefotemi. 310. Po-vr-u-na, radio vo. 311. E pue-rarasi, tr-take-f-dir tape recorder om I tr-talk T ? know rarara enefotemäki. 312. 0 mai wo-rarara mai. 313. Naife pai. 314. Puefe talk know until this my-talk this there no there pai. 315. Tokrime ceso. until there

1. We were there. 2. The Korano and Enus were putting floor boards in place. 3. They put them in place. 4. We were there. 5. I was sitting down below. 6. I was making this. 7. I was making a wood window out of kawasa wood. 8. We were there. 9. We heard Rewi calling and lots of noise coming from the river direction. 10. Rewi said, "Engarina's been taken by a crocodile. 11. She's been taken by a crocodile." 12. We felt sad. 13. Serfiana and Engarina had gone up into the jungle early in the morning. 14. We wondered if it was Engarina Woreo. 15. Was it Engarina Woreo that was taken? 16. She had gone up into the jungle with her mother. 17. Rewi came here. 18. "What's going on? 19. (Which) Engarina was taken by a crocodile?" we asked. 20. "Karten's daughter, Engarina Kalim. 21. A crocodile took her. 22. Engarina, Deki and Benifasa were riding in a canoe while Engarina netted shrimp. 23. Deki tried to talk his sister into going home. 24. He repeated his question once, twice and again a third time. 25. He paddled the canoe real fast. 26. As he paddled, Engarina lost her balance. 27. Her net fell into the water. 28. She fell into the Tivu river, into water up to her waist. 29. She kept on netting shrimp. 30. A crocodile grabbed her here, at the waist. 31.

He grabbed her. 32. The crocodile pulled down. 33. Deki pulled up. 34. He had hold of her neck. 35. Deki was pulling up and the crocodile was pulling down. 36. Finally the cance drifted out into deeper water. 37. Deki had to let go. 38. Deki himself was almost pulled in by the crocodile. 39. Deki let go of Engarina. 40. She was being taken. 41. They came paddling the canoe crying. 42. They anchored the cance and ran to the house. 43. The villagers asked, 'What's wrong?' 'Engarina's been taken by a crocodile.' 45. 'Where?' 46. 'Over there. 47. He was dragging her over there by that root.' 48. Crying, people began running with the news." 49. Rewi spread the news this way, to the east. 50. People from there all rushed to the river. 51. Wow! 52. The houses up there were all empty. 53. Lots of people arrived at the river. 54. They ran to the river. 55. I followed after with my crutches. 56. I went there. 57. Everyone was crying. 58. Why? 59. Engarina had been taken by a crocodile. 60. Everyone was crying. 61. Maria and Karten were crying. 62. Being restless, Maria went into her room. 63. She couldn't stay there so came back out. 64. (I met) Kora coming here. 65. In front of the girl's house, I asked him, "What's going on?" 66. "Maria's saying bad things about me. 67. I'm getting away from that talk. 68. She says bad things about me." 69. Kora was going home to his house to stay there. 70. He went because, "Maria said bad things about me." 71. (She said), "You talked to the outsiders (witchcraft) about my daughter." 72. Kora was going home to stay. 73. Because there at the river Maria was very angry. 74. Kora ?. talked to the outsiders about my daughter." 76. The men grabbed Karten for he tried to hit Kora with a machete. 77. Kora went home from that. 78. He went to stay. 79. He was going to his house. 80. Karten couldn't sit down. 81. He felt grief in his chest and throat. 82. He felt grief in his heart. 83. No. He couldn't get rid of the lump in his throat. 85. No. 86. Then Maria said, "Kostana, come up here and cut me with the machete. 87. Kill me with your spear." 88. Kostana backed away. 89. "Matiasa, kill me with your spear. 90. Cut me with your machete so I die." 91. I was there. 92. I was leaning there. 93. I was in front of Karten's house, by the fence. 94. We could hear people crying. 95. Everyone including the Korano and the vice Korano sat down. 96. They stayed with Karten. 97. He started breaking (Engarina's) things. 98. Joseph attempted to grab a box and throw it out. 99. Joseph began to try to break things. 100. He wrecked the kitchen and the table. 101. Joseph couldn't be held down. 102. He seized an arrow, an axe, and a machete and tried to kill Karten. 103. He tried to kill Maria too. 104. He took an axe but couldn't chop the house down. 106. He plundered with a spear. 105. He plundered with an axe. 107. He plundered with a machete. 108. They couldn't restrain Joseph from trying to cut Karten. 109. There was crying from the canoe as Matias, Isak, Ramek, and Meki left. 110. They took along a spear and a crocodile axe. 111. Mauritä went along too. 112. They searched. 113. They went in the canoe. 114. They went as far as Autore but didn't find anything. 115. Maybe the corpse was behind them. 116. A heavy rain began to fall. 117. Engarina had been taken by the crocodile at noon. 118. ed in the canoe but didn't see it. 119. They returned. 120. They were nearing

the mouth of the Topati river. 121. They all got wet in the heavy rain. 122. They came back as far as Watinwara. 123. There they could see the crocodile pulling the corpse. 124. As they neared Matias said, "There's the corpse!" 125. Before the canoe got close, the crocodile pulled her under. 126. Going home Matias said, "Let's get the body tonight. 127. The rain will have stopped." 128. They returnto the village. 129. "What did you find?" 130. "He saw us and took the corpse. 131. He seems to be taking it upstream." 132. The rain continued until dark without stopping. 133. It rained straight through. 134. Simson ran with the news. 135. He ran to Puar, near the mouth of the Cäum river. 136. Yusup was coming singing, with his wife Kornelia. 137. Simson clapped his hands. 138. "Who are you?" 139. "I'm Yusup." 140. "Don't sing! 141. Near the mouth of the Tivu a crocodile took Engarina. 142. She was taken at noon. 143. She's been taken in this direction." 144. Yusup and Kornelia were in their canoe. 145. "Look that way for the corpse. 146. Just watch for it as you travel." 147. He and Kornelia would search for the corpse as far as Setema. 148. A heavy rain was about to fall. 149. They picked Sumero leaves and she covered one basket. 150. Kornelia covered all the baskets. 151. Kornelia was sick. 152. They went on to Setema in the rain. 153. When they got to Fasiofe they were drenched with rain. 154. They continued to Setema. 155. Yusup's little garden house was there. 156. They anchored the canoe and got out. 157. They built a fire under the house. 158. Kornelia couldn't sleep. 159. Yusup slept hard, 160. Yusup dreamed. 161. Kornelia still couldn't sleep. 162. She felt hungry. 163. There was Kornelia. 164. Kornelia heard the sound of splashing water. 165. She could hear the sound of the water, splash! 166. She heard it three times. 167. Kornelia walked around. 168. She picked up some vegetables. 169. She wrapped them up. 170. "I'm hungry." 171. She walked to the door. 172. She tried to see where the water was splashing. 173. She saw the water splashing up very widely. 174. Kornelia saw it splashing up very widely. 175. The water went as high as the leaves of the Waräfri tree. 176. Kornelia went back. 177. She shook Yusup. 178. "Yusup, Yusup, wake up! 179. I think the corpse is over there. 180. The crocodile is throwing up water." 181. Yusup woke up. 182. When he woke up his foot had a cramp in it. 183. It was still asleep. 184. He went out of the house and sat on a bench. 185. He took his spear, but he left his arrows. 186. He went down in the canoe alone. 187. He felt compelled to go. 188. The canoe neared the mouth of the Topati river. 189. A really big one was coming straight towards it. 190. It was a huge crocodile. 191. It was from here to there long and was a salt water crocodile. 192. He saw crocodiles swarming like boards on a floor. 193. They were as numerous as piles of grass or palm stems that make up the walls of a house. 194. They were eating the corpse. 195. Yusup saw one bite off a hand. 196. ing thrown it, another one grabbed it, and Yusup saw it begin to bite off the head. 197. After the head came off it was thrown and caught by another, still another began to divide the body even further. 198. He bit at the waist until the body was divided and there were no legs. 199. There was only the chest. 200. One arm was missing. 201. The head had been cut off. 202. The right arm was still there

but not the left one. 203. Any other man besides Yusup would have been afraid. 204. He didn't seize the corpse. 205. He was afriad of the crocodiles. crocodiles were crowded together like pieces of a palm stem wall and floor boards. 207. Yusup moved fast because he saw the crocodile that had divided up the body and it was as long as from here to that wall over there! 208. The one that divided the body saw Yusup's canoe coming closer and turned his head. 209. He then dived into the water. 210. Yusup was afraid now that the big crocodile was in the water. 211. If there had been two men they would have been able to kill it. 212. There was the corpse, just the chest part, thrown up on the land. 213. Yusup went back to get Kornelia. 214. "Wow, the corpse is over there!" 215. They came here. 216. Kornelia told me about it. 217. I had asked her, "Could you clarify your story?" 218. "It was like this, we were coming back and were to the place where the mouth of the Upävu is almost seen when I suggested to Yusup that we take the corpse back today. 219. Yusup agreed so we went over there and put the chest and arm into the canoe. 220. We put the right arm in, because there were no feet, the body having been severed at the waist. 221. We put it in the canoe. 222. We brought her back and when we were near the mouth of the Upavu we met Pupuari. 223. 'Who are you?' 224. 'I'm Pupuari.' 225. Yusup told him, 226. 'Run down there. 227. We have found the corpse. 228. We're bringing it in the canoe. 229. Go tell the people at the ocean.'" 230. Pupuari ran this way, crying. 231. We were looking for him. 232. I was at our house in the kitchen. 233. From there I could hear him cry as he came out of the jungle. 234. He said, "The corpse has been seen." 235. Pupuari came here. 236. "What is it?" 237. "They're bringing the corpse. 238. Yusup has found Engarina." 239. Everyone came here leaving their houses empty. 240. People crowded at the mouth of the Tivu river. 241. The place was full of people. 242. It was full of men, women, and children. 243. Crying they brought the corpse from the canoe to the father's house. 244. Everyone was crying like usual. 245. Everyone was crying and those who returned from pounding sago cried too. 246. The ones who came included Fransina and all the other women without one exception. 247. They all cried like usual. 248. The rain continued into the night without stopping. 249. The coffin was made in the rain. was just a little one since there was no head and only a chest. 251. In the night the rain stopped. 252. They had finished making the coffin. 253. They would bury her in the morning. 254. It had rained since noon. 255. Everyone slept until morning. 256. That afternoon the police, Patipema, Kärärowai, and some else, the medic whose name I can't remember, arrived. 257. They arrived. 258. Patipem pointed his gun at Karten and shot it. 259. He shot it right under his chin. 260. Bang! 261. They grabbed Patipem but not before he hit Karten. 262. Karten fell down so they helped him up. 263. All that day and night it rained and people cried. 264. In the morning all who came from Sarmi gathered. 265. Rondapoe, the vice camat arrived. 266. Rondapoe came here. 267. "Where was she taken?" 268. "She was taken over there." 269. They took four canoes to show him the place where the crocodile grabbed her. 270. Then they went to the place where Yusup found the corpse. 271. The vice camat wrote it all down. 272. Rondapoe wrote until he was

finished. 273. The vice camat and everyone else returned, anchored the canoes and got out. 274. They cut up a dog. 275. After cutting it up, they ate it with chicken and vegetables too. 276. Wow! 277. They cooked it all. 278. They fried the dog meat in coconut oil. 279. Then they buried the little corpse. 280. They buried her chest and returned to the house. 281. The vice camat then went home. 282. After they had finished eating, the other government officials went home, 283. They all went, every one of them, back to Sarmi which had been almost empty. 284. They went back. 285. Patipem and Kärärowai slept here. 286. They slept until dawn. 287. In the morning, Patipem took a report from Karten. 288. "What happened?" 289. "Kora put a curse on my daughter." 290. The next morning the truck came with two soldiers. 291. Kora was called. 292. The tough soldiers took him to jail on that testimony. 293. Kora is still in jail, he hasn't returned. 294. The Korano discussed this with Karten. 295. The Korano went to find out the truth. 296. He had been up the river so didn't know when one of his villagers had been taken, since he has a normal head! 297. He felt that he had to go and find out the truth. 298. He had to go. 299. He talked to Karten that day at the meeting house. 300. "You are going to cause trouble, are you?" (Karten said.) 301. The Korano said, "No, I just want to find out the truth." 302. Kora is still in jail. 303. When will he be able to return? 304. Will they bring him to Jayapura? This is the story about the taking of Engarina. 306. The miss asked me, 307. "Do you know it? 308. I'd like to know more about Engarina." 309. "I know it. Go get the radio. 311. I will tell it to you because I know it. 312. This is my story. 313 - 314. It's true. 315. That's all."

NOTES

¹ The language is spoken by about 2,000 people who live on the north coast of Irian Jaya between the town of Sarmi and the Apawar River. The first author, Carol Erickson, is responsible for the data and the initial analysis. The second author, Evelyn Pike, is responsible for the semantic analysis, and the analysis of some of the higher levels of the grammatical structure.

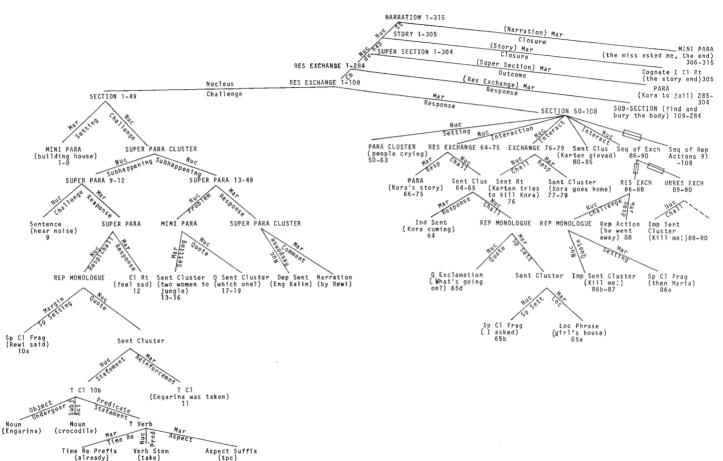
² The narration by Toncë Mammin was recorded on tape. The transcription of the narration, which appears at the end of this article, includes a morpheme-by-morpheme translation as well as a free translation.

For the tagmemic treatment of meaning, in general, as having reference to behavioral impact, purpose, communication, and understanding, see Kenneth L. Pike, 1967: 599; for meaning of the phonological hierarchy, 606; of the grammatical hierarchy 607 - 8.

⁴ Evelyn Pike was encouraged to try such intersecting semantic and grammatical discouse trees by the diagrams of Barnard in an appendix to Vol. III of Longacre (1968 - 69); unfortunately, in our view, these pioneer diagrams were omitted from Longacre (1968). A monograph by Wise (dissertation, 1968: 248 - 55; 274 - 81, later published by SIL in 1971) contained diagrams by levels (not trees) which represented

an extensive attempt at identifying and contrasting the two kinds of structures. This work, like that of Barnard, had a heavy impact on the theories of Kenneth L. Pike (personal communication). A careful comparison of these different but related approaches must await further study.

- ⁵ The nature of the grammatical hierarchy and procedures for grammatical analysis are discussed extensively in Pike and Pike (1974).
- ⁶ For a fuller discussion of Sentence and Sentence cluster structure, see the article by Sterner, Suharno, and Pike in this volume.
- 7 For extensive tagmemic analysis of approaches to high-level grammatical structures in discourse, see also Longacre (1972); for the tagmemic analysis of high-level structures of grammatical versus semantic hierarchies, however, one must consult Barnard (in Longacre, 1968 69, Vol. III, appendix) and Wise (1971). Other approches to some of these problems are seen in Grimes (1974), with an extensive bibliography. For deep and surface structure within the sentence see also Ballard, Conrad, and Longacre (1971).
- 8 For a more complete description of Isirawa verb affixes see Section 4 of the Oguri -Cochran article in this volume.



FIGURE