PHONOLOGY AND SYNTAX OF SEDANG, A VIETNAM MON-KHMER LANGUAGE

Kenneth D. Smith

A DISSERTATION

in

Linguistics

Presented to the Faculty of the Graduate School of Arts and Sciences of the University of Pennsylvania in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy



Variations of the basic noun phrase with an initial noun phrase head are augmented by the count noun phrase, pluralized noun phrase, pronoun reference phrase, and prepositional phrase which occur in the subject, object, and indirect object slots of clauses. The verb phrase (which follows the subject) consists of a preverbal adverb, a verbal particle, one or two preverbs, and one or more main verbs. The main verbs are classified in terms of the clause type(s) in which they may occur, and include quotative, container, bitransitive, semitransitive, transitive, intransitive, equative, and existive verbs.

Apart from the above nuclear clause elements, there are peripheral clause elements which include a temporal phrase (prenuclear), locative phrase, adverbial phrase, and final particles (all postmuclear). The adverbial phrase subsumes the manner phrase, similitive phrase, comparative phrase, descriptive phrase, quantitative phrase, purposive phrase, and volitional phrase.

Variations of the basic clause types include permuted and transformed clauses. The former are the postposed subject clause, the object (or complement) emphasis clause, the locative emphasis clause, and the adverbial emphasis clause. The latter are the echo subject clause, the imperative clause, the benefactive clause, the reflexive clause, the reciprocal clause, the focus clause, and the interrogative clause.

Statistics are provided to indicate the relative frequency of the various syntactic units in natural text, using, in part, a 27,437-word concordance as well as an exacting analysis of 765 clauses.

Occasional affixation in Sedang encompasses four major affixes: the causal, the reciprocal, and the adversative prefixes, and the nominal infix.

Apart from vocatives, exclamations, and responses, sentences are analyzed as consisting of one or more clauses.

Complex sentence types include the conditional sentence, the causal sentence, the contrastive sentence, the concessive sentence, and the resultant sentence.

Morpheme reduplication, repetition, expansion, series, ellipsis, onomatoposia, special descriptives, and poetic form are also briefly discussed.

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Supervisor of Dissertation

Graduate Group Chairman

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The study of Sedang was undertaken in 1965 in the city of Kontum with Péang with whom I traded English lessons for several months. My wife and I spent a year during 1965-64 in DakTo visiting Sedang villages and studying with 'Gim and Lo. Back in Kontum at the Linguistic Research Center Tux and Din taught me from 1965-67. After a Stateside furlough in 1967-68 and an assignment in the Philippines, I spent six weeks in Kontum in the summer of 1969 transcribing Sedang texts which Hmou and Be had kindly recorded for me. These texts became the basis for the concordance cited below. Later that year I returned to Kontum with my family for six months of Sedang language study with Hmou and other Sedang friends. In June 1970 we moved to Mha Trang, accompanied by Hmou, to prepare literacy and educational materials in Sedang in cooperation with the Highlander Education Project, under

the direction of Dr. Ernest W. Lee of the Summer Institute of Linguistics. My three-week participation in a teacher training workshop at the Mational Montagnard Training Center in Pleiku in February, 1975, was my last contact with the Sedang except for a fried frog-legs supper with Péang in Saigon the following April.

I am indebted to Dr. Dell Hymes for encouragement to come to the University of Pennsylvania during the 1967-68 school year and was the grateful recipient of a Teaching Fellowship for that year. The return to the university for the 1975-74 school year was made possible by a much-appreciated Staff Scholarship of the Summer Institute of Linguistics.

The Linguistic Information Retrieval Project of the Summer Institute of Linguistics and the University of Oklahoma Research Institute gave valuable assistance through the preparation of a concordance of Sedang texts made on the IBM 1410 computer at the University of Oklahoma. This project was sponsored by Grant GS-270 of the Mational Science Foundation.

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I am especially grateful that throughout the years my wife, Marilyn, has been with me to participate in many ways in our Sedang project, sharing with me the realization that only with in-depth linguistic analyses of Sedang could we obtain the capability to translate adequately the Scriptures for the Sedang--an objective which has eluded us to date.

Throughout life I have sought to follow Jesus Christ, to Whom I give thanks for His direction and encouragement even in this present tesk.

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TABLE OF ABBREVIATIONS

(Numbers refer to section where abbreviation is defined, though it may occur prior to that section in the text)

ABBREVIATIONS FOR PART TWO, SEDANG PHONOLOGY

C consonent, 4.0

C₁ initial single consonant, 4.0

Cr final consonant, 4.0

C_ cluster modifier, 4.0

C_p presyllable consonant, 4.0

Fr French, 6.2

G, VG glided vowel, 4.0

Hr Hre, 6.1

LR lax register, 4.1

N nesalisation, 4.0

PC Proto-Chamic, 6.2

PMB Proto-Morth-Bahmaric, 6.0

R register, 4.0

Sdg Sedang, 6.1

Skt Sanskrit, 6.2

TR tense register, 4.1

```
¥
          simple vowel, 4.0
          presyllable vowel, 4.0
          central vowel glide, 4.2
Va
          front vowel glide, 4.2
Ve
VX
          Vietnamese, 6.2
Vô
          back vowel glide, 4.2
Digraphs and uncommon orthographic symbols:
         short schea
         _____
         _6_
ah
         DE
nh
         _____
ô
          achara
         retroflexed s
         -8
X
         no consonant, open syllable
Ø
         glottal stop
         (in languages other than Sedang) also short vowel
         preglottalisation of consonants
         vowel laryngealization
```

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vowel masalisation; in non-standard Sedang represents breathy vowels

vowel naso-laryngealization

ABBREVIATIONS FOR PART THREE, SEDANG SYNTAX

AdvEmp CL adverbial emphasis clause, 11.1

AdvP adverbial phrase, 10.3

ann animate noun, 7.3

A.

an-plM animate plural marker, 7.5

aphum approximate number, 7.2

B CL bitransitive clause, 9.3

B Vb bitrensitive verb, 8.1

B VP bitransitive verb phrase, 8.1

Ben CL benefactive clause, 11.2

BenP benefactive phrase, 11.2

basic noun phrese, 7.1

C CL container clause, 9.2

C Vb container verb, 8.1

C VP container verb phrase, 8.1

CausConj causal conjuntive, 15.2

CL clause, 9.0

Cl classifier, 7.2

cN countable noun, 7.2

cMP count noun phrase, 7.2

Co complement, 9.7

CoConj coordinating conjunctive, 12.7

-xx11-

COEmp CL complement emphasis clause, 11.1

Compr comparative phrase, 10.5

CompPt comparative particle, 10.3

Concconj concessive conjunctive, 13.4

CondConj conditional conjunctive, 13.1

Conj conjunctive, 13.0

ContConj contrastive conjunctive, 13.3

Dem demonstrative, 7.1

DesP descriptive phrase, 10.3

DHame descriptive name, 7.1

Eq CL equative clause, 9.7

Eq Yb equative verb, 8.1

Eq VP equative verb phrase, 8.1

Eql CL zero verb equative clause, 9.7

Eq2 CL xe 'be' equative clause, 9.7

Eq3 CL chiang 'become' equative clause, 9.7

Eq4 CL oi 'be' equative clause, 9.7

es CL echo subject clause, 11.2

Ex CL existive clause, 9.8

Ex Vb existive verb, 8.1

Ex VP existive verb phrase, 6.1

Excl exclamation, 13.7

Foc CL focus clause, 11.2

Foch focus phrase, 11.2

FooPt focus particle, 11.2

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fPt final particle, 10.4

Frag clause fragment, 12.9

gen-pl# general plural marker, 7.3

GName geographical name, 7.1

I CL intransitive clause, 9.6

I Vb intrensitive verb, 8.1

I VP intransitive verb phrase, 8.1

Imp CL imperative clause, 11.2

IO indirect object, 9.1

Kin kinship term, 11.2

Locative, 7.1

LOCKED CL locative emphasis clause, 11.1

LocP locative phrase, 10.2

ManP manner phrase, 10.3

ManPt manner particle, 10.3

Mult (number) multiplier, 7.2

N noun, 7.1

Hominter nominal interrogative, 7.1

NP noun phrase, 7.0

MPH noun phrase head, 7.1

Mum mamber, 7.2

NumInter numeral interrogative, 7.2

O object, 9.1

OEmp CL object emphasis clause, 11.1

plM plurel marker, 7.3

-xxiv-

plNP pluralized noun phrase, 7.3

PName personal name, 7.1

Pred predicate, 9.1

PRefP pronoun reference phrase, 7.4

Prep preposition, 7.5

Prepp prepositional phrase, 7.5

Pron pronoun, 7.1

ps CL postposed subject clause, 11.1

PurP purposive phrase, 10.3

PurPt purposive particle, 10.3

pVb preverb, 8.3

pvAdv preverbal adverb, 8.5

Q CL quotative clause, 9.1

Q Vb quotative verb. 8.1

Q VP quotative verb phrase, 8.1

Quantitative word, 10.5

Quant quantifier, 10.3

Quantifier phrase, 10.3

Quantitative phrase, 10.3

Quantitative particle, 10.3

Recip CL reciprocal clause, 11.2

RecipP reciprocal phrase, 11.2

Refl CL reflexive clause, 11.2

ReflP reflexive phrase, 11.2

ReflPt reflexive particle, 11.2

RelPt relative particle, 7.1

-XXY-

RelrPt relator particle, 7.5

ResConj resultant conjunctive, 13.5

Resp response, 13.8

S subject, 9.1

3 CL semitransitive clause, 9.4

S Vb semitransitive verb, 8.1

S VP semitransitive verb phrase, 8.1

Sim similitive expression, 10.3

Simp similitive phrase, 10.3

SimPt similitive particle, 10.3

sPt series particle, 12.8

SubTemp subordinated temporal expression, 10.1

T CL transitive clause, 9.5

T Vb transitive verb. 8.1

T VP transitive verb phrase, 8.1

Temp temporal (word), 10.1

TempDem temporal demonstrative, 10.1

TempNP temporal noun phrase, 10.1

TempP temporal phrase, 10.1

TempSub temporal subordinator, 10.1

vAdj verbal adjective, 7.1

Vb (main) verb, 8.1

vDes verbal descriptive, 7.1

Voc vocative, 13.6

VolP volitional phrase, 10.3

VolPt velitional particle, 10.3

VP	verb phrase, 8.0
vPt	verbal particle, 8.4
¥	with
*Vp	unstated verb class, 8.0
x ^{VP}	unstated verb phrase type, 8.0
ø	sero verb, 9.7
()	outer brackets in formula: optional
	occurrence, Introduction
:()	inner brackets in formula: restrictive
	filler requirement, Introduction
-	separates syntactic elements in phrase
	and clause formula

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BIBLIOGRAPHY

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- Aymonier, Etienne and Antoine Cabaton. 1906. Dictionaire Cam-Français. Paris: Imprimerie Mationale. xlvi, 587 p.
- Baudesson, Henry. 1919? Indo-China and its primitive people. Tr. by E. Appleby Holt. London: Hutchinson. 328 p.
- Blansitt, Edward L., Jr., ed. 1967. Report of the Eighteenth
 Annual Round Table Meeting on Linguistics and
 Language Studies. Washington, D.C.: Georgetown
 University Press. xii, 195 p.
- Blood, Henry F. 1968. A reconstruction of Proto Mnong.
 Grand Forks, Summer Institute of Linguistics,
 University of North Dakota. 115 p.
- Brend, Ruth M. 1974. Advances in tagmenics. Amsterdam: Worth-Holland Publishing Company. xiii, 458 p.
- Brenier, M. 1948. Review of 'The potential contributions of the Noi to the cultural landscape of Indochina' by George Deveroux. Far Eastern Quarterly 8.74-76.

- Cabaton, Antoine. 1905. 'Dix dialectes indochinois recueillis par Prosper Odend'hal.'

 Journal Asiatique, 10e ser., 5.265-344.
- Clifford, Sir Hugh. 1926. 'The king of the Sedangs.'
 Asia 26.10.854-858,915-920.
- Coedes, George. 1962. Les peuples de la péninsule Indochinoise, histoire, civilizations. Paris, 228 p.
- . 1966. The making of South East Asia.

 (Translation of Les Peuples de la peninsule

 Indochinoise, H.H.Wright, tr.) Berkeley: University of California Press. xvi, 268 p.
- Cook, Walter A., S.J. 1969. Introduction to tagments analysis. New York: Holt, Rinehart and Winston, Inc. viii, 210 p.
- Cooper, James S. 1975. 'An ethnography of Halang rhymes.' ((Thomas and Hoa, eds.) MKS IV (q.v.)), p. 55-41.
- and Maney Coeper. 1966. 'Halang phonemes.' ((Thomas, Wos, and Blood, eds.) MKS II (q.v.)), p. 87-98.
- Cupet, M. le Captaine. 1893. 'Chez les populations sauvages du sud de l'Annam.' Le Tour du Monde 65.14.216ff.
- Dam Bo. 1950. 'Les tribus, leurs dialectes et leurs visages.'
 Prense-Asie 5.49-50.951-1208.
- Deveroux, George. 1937. 'Functioning units in Ha(rh)ndea(ng) society.' Primitive Man 10.1.1-7.

- ____. 1938. 'Principles of Ha(rhn)de:a(ng) divination.'
 Man 38.143.125-127.
- . 1947. 'The potential contributions of the Moi to the cultural landscape of Indochina.' Far Eastern Quarterly 5.6.390-395.
- Dyen, Isidore. 1965. The lexicostatistical classification of Austronesian languages. New Maven: Yale University.
- Elson, Benjamin and Velma Pickett. 1960. Beginning morphology-syntax. Santa Ana (now Muntington Beach):

 Summer Institute of Linguistics. v, 73 p.
- Ferlus, Michel. 1974? 'A review of A phonological reconstruction of Proto-North-Bahnaric by Kenneth D.

 Smith.' Asie du Sud-Est et Monde Insulindien
 (Mouton), 15.-. (Not seen)
- Faublee, J. 1952. 'Langues malayo-polynesiernes.' In A. Meillet and M. Cohen, eds., Les langues du monde. p. 649-75.
- Finot, L. 1907. Neview of Die Mon-Khmer-Völker by Wilhelm Schmidt. T'owng Pao 2e ser., 8.154-157.
- Gleason, Henry Allan, Jr. 1955. Workbook in descriptive linguistics. Henry Holt and Company, New York.
- Gradin, Dwight. 1966. 'Consonantal tone in Jeh phonemics.'

 ((Thomas, Nos, and Blood, eds.) RKS II (q.v.)),
 p. 41-54.

-xli-
Gregerson, Kenneth J. 1971. Predicate and argument in
Rengao grammar. PhD dissertation, University of
Washington.
. 1973. 'Tongue root and register in Mon-Khmer.'
Paper presented at the First International Confer-
ence on Austrossistic Linguistics, Monolulu. 37
p., mi.
and Kenneth D. Smith. 1973. 'The development of
Todreh register.' ((Thomas and Boa, eds.) MKS IV
(q.v.)), p. 145-184.
and David D. Thomas. 1973. The place of
Bahnar within Bahnaric.' Paper presented at the
First International Conference on Austroasiatic
Linguistics, Menclulu. 55 p., mi.
and David D. Thomas, eds. 1975. Mon-Khmer Studies V.
(In preparation)
Gudschinsky, Sarah C. 1956. 'The ABC's of lexicostatistics
(glottochrenology).' Word 12.175-210; republished
in Dell Hymes, ed., Language in Culture and
Society, 1964.
. 1973. A manual of literacy for preliterate peoples.
Edited by Ramona Lucht, Jacqueline Firehow, and
Eunice Loeweke. Ukarumpa, Papus New Guines: Summer
Institute of Linguistics. ix, 180 p.

- Guilleminet, Paul. 1952. Coutumier de la tribu Bahnar des Sedang et des Jarai de la province de Kontum.
- Hale, Austin. 1975. Clause, sentence and discourse patterns in selected languages of Nepal. SIL Publications in Linguistics and Related Fields, No. 40.
- Halle, M. and K. M. Stevens. 1969. 'On the feature "Advanced 'tongue root.": MIT Quarterly Progress
 Report No. 94, 209-215.
- Headley, Robert K., Jr. 1973. 'Some sources of Chamic vocabulary.' Paper presented at the First International Conference on Austroasiatic Linguistics, Honolulu. 27 p., mi.
- Henderson, Eugenie J. A. 1952. 'The main features of Cambodian promunciation.' Bulletin of the School of Oriental Studies. XIV (1).149-74. University of London.
- Hickey, Gerald C. 1964. 'Sedang.' In Frank M. Lebar,
 Gerald C. Hickey and John K. Musgrave, eds.,
 Ethnic groups of mainland Southeast Asis.
 p. 146-149.
- . 1967. 'Some aspects of hill tribe life
 in South Vietnam.' In Eunstadter, Peter, ed.,
 Southeast Asia tribes, minorities, and nations,
 Vol. 2, p.745-770.

- Hoffet, J.-H. 1935. 'Les mois de la chaine annamitique entre Tourane et Les Boloven.' Terre Air Mer 59.1.1-45.
- Jacob, Judith M. 1968. Introduction to Cambodian. London, Oxford University Press, xii, 341 p.
- Jenner, Phillip H. 1966. Khmer phonemes and syllables:

 a phonemic analysis of Khmer. Honolulu: University of Hawaii.
- Jennings, Wanda. 1974. 'Roteang astronomy: A didactic of the former culture-folklore.' Typed mas, 25 p.
- Jones, Robert B. 1970. 'Classifier constructions in Southeast Asia.' Journal of the American Oriental Society 90.1.1-12.
- Kieckers, Ernst. 1931. Die Sprachstämme der Erde mit einer Anzahl grammatischer Skizzen. Heidelberg: Carl Winter. xii, 257 p.
- Ladefoged, Peter. 1971. Preliminaries to linguistic phonetics. University of Chicago Press, ix, 122 p.
- Lee, Ernest W. 1966. Proto-Chamic phonological word and vocabulary. Unpublished PhD dissertation, Indiana University.
- Longacre, Robert E. 1964. Grammar discovery procedures.

 The Hague: Mouton. 162 p.
- Maître, Henri. 1912. 'Les populations de l'Indo-Chine.'
 Bulletin et Nemoires de la Société d'Anthropologie
 de Paris de sér., 3.107-115.

- Manley, Timothy M. 1972. Outline of Sre structure.

 Oceanic Linguistics Special Publication No. 12,

 University of Hawaii Press. (xii), 239 p.
- Mansuy, H. 1929. 'Prehistoire et protohistoire.' In G.

 Maspero, ed., Un empire colonial francais,

 l'Indochine, Vol. 1. p. 65-80.
- Marquet, Jean. 1927. Un aventurier du XIXe siècle: Marie ler, Roi des Sedangs (1888-1890). Editions du Bulletin des Amis du Vieux Rue à Rue. 128 p.
- Maspero, Henri. 1929a. 'Mosurs et coutumes des populations sauvages.' In G. Maspero, ed., Un empire colonial français, l'Indochine, Vol. 1. p. 233-55.
- . 1929b. 'Langues.' In G. Maspero, ed., Un empire colonial francais, l'Indochine, Vol. 1, p. 63-80.
- NCTXH. 1960. Wha công-tác Xã-hôi Miền-Thướng (Bureau of Social Action for the Highland Area): Tông-Số Các Sắc Dân Thướng (The total highland population figures). Saigon.
- Ner, M. 1927. Review of Un aventurier du XIXe siècle, Marie ler, roi des Sedangs, 1888-1890 by Jean Marquet and Marie ler, roi des Sedang, 1888-1890 by Maurice Soulié. Bulletin de l'École Française d'Extrese-Orient 27.308-350.
- NNCDT. 1959. Nhom Nghiam Cứu Dân Tôc của Uy-ban Dân Tôc (Minority people's study group of the Committee of minority peoples): Các Dân Tôc Thiều Số Ở Việt-Nam

- (Minority peoples of Vietnem). Hanoi, Mhà Xuất Ban Văn Hóa.
- Phillips, Richard L. 1962. 'Voice register in Mon-Khmer languages.' Unpublished mss.
- PhD dissertation, Cornell University. In prepara-
- . 1973. 'Vowel distribution in Hre.' ((Thomas and Hoa, eds.) MKS IV (q.v.)), p. 63-68.
- Pike, Kenneth L. 1967. Language in relation to a unified theory of the structure of human behavior.

 The Hague: Mouton and Co. 762 p.
- and Evelyn G. Pike. 1974. Grammatical analysis.

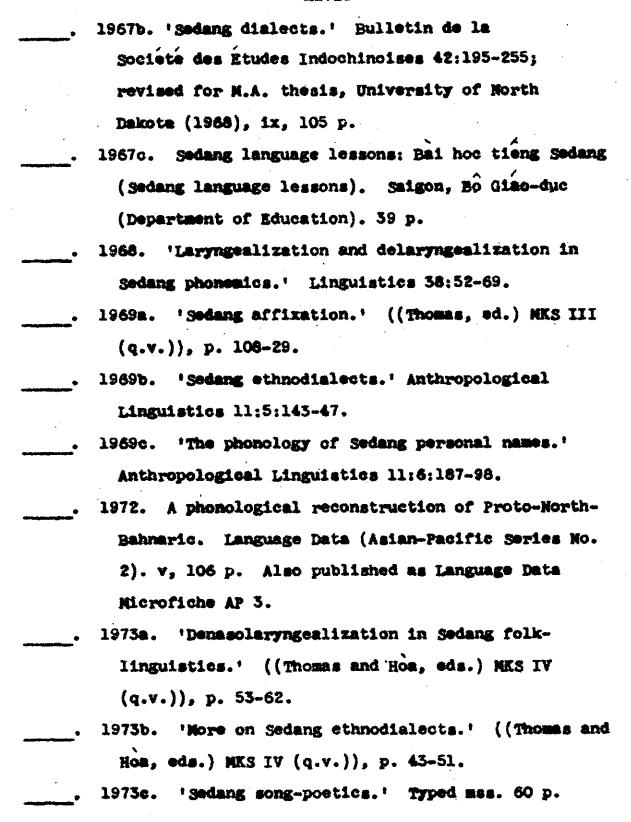
 Huntington Beach: Summer Institute of Linguistics.

 mi. unpaginated.
- Pinnow, Heinz-Jurgen. 1959. Versuch einer historischen Lautlehre der Kharia-sprache. Wiesbaden: Otto Harrassowitz.
- Przyluski, J. 1924. 'Les langues austrossistiques.' In A. Meillet et M. Cohen, Les langues du monde.
 p. 385-403.
- Ray, Sidney H. 1907. Review of Die Mon-Khmer-Völker by Wilhelm Schmidt. Man 7.107.169-92.
- Reynaud, le Docteur. 1962. 'Etude des phonemes vietnamiens, par confrontation entre le Vietnamien et quelques dialectes des Hauts-Plateaux du

- Sud-Vietnem. Bulletin de la Société des Études Indo-chinoises 37.117-253.
- Salzner, Richard. 1960. Sprachenatlas des Indopazifischen Raumes. Wiesbaden: Otto Harrassowitz.
- Schmidt, P. Wilhelm. 1906. Die Mon-Khmer-Völker, ein Bindeglied zwischen Volkern Zentralasiens und Austronesiens. Archiv für Anthropologie NF 5.55-109. Also published by Braunschweig: Friedrich Vieweg und Sohn, x, 157 p.
- . 1907. 'Les peuples Mon-Khmer trait-d'union entre les peuples de l'Asie Centrale et de l'Austronesie.' (Trans. from German) Bulletin de l'École Français d'Extreme Oriente 7.213-263.
- . 1926. Die Sprachfamilien und Sprachenkreise der Erde. Heidelberg: Carl Winter. 2 vol.
- Sebeck, Thomas A. 1942. 'An examination of the Austroasiatic language family.' Language 18.206-17.
- Shorto, Harry L. 1962. A dictionary of modern spoken Mon. London, Oxford University Press. xviii, 280 p.
- . 1967. 'The register distinctions in Mon-Khmer languages.' Gesellschafts- und Sprachwissenschaftliche Reihe, Heft 1/2, 16 Jahrgang 1967, p. 245-248.
- Smith, Kenneth D. 1967a. Ngu-vung Sedang-Sedang vocabulary.

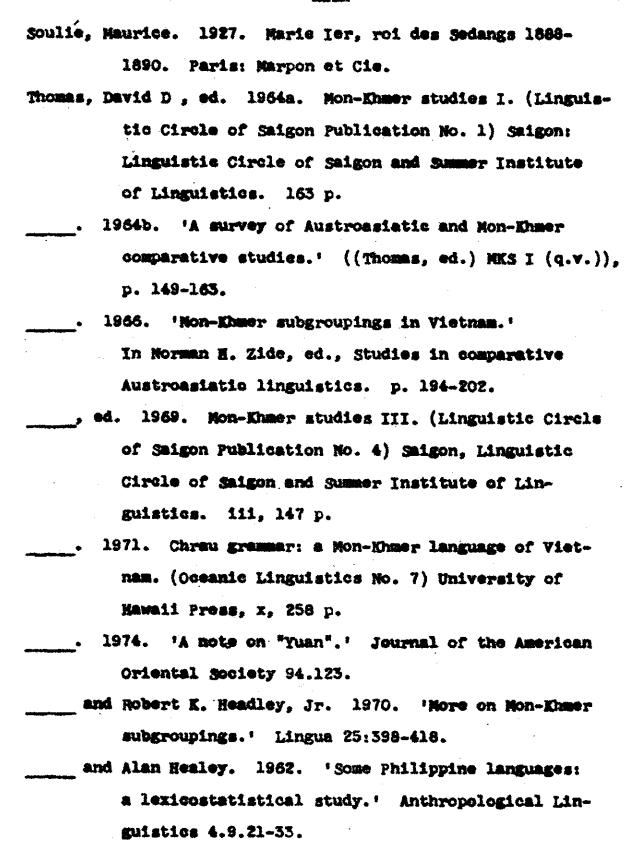
 Smigon, Bô Giáo-dục (Department of Education).

 xi, 128 p.



-xlviii-

-xlv111-
. 1973d. 'The velar animal prefix in Vietnam
languages.' To be published in Linguistics of the
Tibeto-Burman Area, University of California at
Berkeley.
. 1974a. 'A computer analysis of Vietnam language
relationships.' Workpapers: Summer Institute of
Linguistics, University of North Dakota Session
18:99-113.
. 1974b. 'Homonyms in Sedang kinship terminology.'
Submitted to Anthropological Linguistics. 21 p.
typed.
. 1974c. 'Indic linguistic influence in Vietnam.'
Typed mas. 56 p.
. 1974d. 'Sedang pronoun reference.' To be published
in Gregorson and Thomas, eds., Non-Khmer Studies V.
. 1974e. 'Sociolinguistics and the Bahner pronoun
system.' Typed mss. 41 p.
. 1974f. 'Text vs. dictionary letter frequencies for
primers. ' Workpapers: Summer Institute of
Linguistics, University of North Dakota Session
18.77-97.
. 1975. 'North Bahnaric numeral systems.' To be pub-
lished in Linguistics in a special issue on Aus-
trossistic numeral systems.
Smith, Ronald L. 1975. 'Ngeq phonemes.' ((Thomas and Hoa,
eds.) MKS IV (q.v.)), p. 77-84.



- and Nguyen Binh-Hon, eds. 1973. Non-Khmer
 studies IV. Carbondale: Center for Vietnamese
 Studies and Summer Institute of Linguistics.

 184 p.

 , and David D. Blood, eds. 1966.

 Non-Khmer studies II. (Linguistic Circle of Saigon Publication No. 3) Saigon: Linguistic Circle of Saigon and Summer Institute of Linguistics. vi,

 lll p.

 and Marilyn L. Smith. 1967. 'Proto Jeh-Halang.'

 Zeitschrift fur Phonetik 20,157-75.
- Thomas, Dorothy M. 1967. Phonological reconstruction of Proto-East-Katuic. Unpublished MA thesis, University of North Dakota.
- Thompson, Laurence C. 1965. A Vietnamese grammar. Seattle: University of Washington Press. xxi, 386 p.
- Voegelin, C.F. and F. M. Voegelin. 1966. 'Languages of the world: Indo-Pacific fascicle seven.' Anthropological Linguistics 8.3.

Vernacular publications

- I. Literacy and educational materials (each item listed here was published in Saigon, Vietnam, by Bô Giáo-duc (Department of Education))
- En mohrism todroung of km lem, Lam mol, 'Na vai hok tro; Em tap tinh tot cho cac sac-toc, Lop mot, Phan hoc sinh. (First grade student's Ethics text) (1971), 151 p.
- Eh hok túm khu kế lạp luô, Lam môi, 'Na vai hok tro; Em tim-hiểu khoa-học cho các sắc-tộc, Lốp một, Phân học sinh. (First grade student's Science text) (1971), 183 p.
- Eh mohrism hok chu roteang, Lam ki poang, Koxop 1, 2, 3;
 Em hoc van, Lop vo-long, Phan hoc sinh, Quyen 1,
 2, 3. (Primer grade student's reading primer,
 volumes 1, 2, 3) (1972), 64, 96, 133 p.
- Rak dei cha va kho mo cha, Lam môi, 'Na vai hòk tro; Sách và-sinh cho các sác-tộc, Lốp một, Phân học sinh. (Pirst grade student's Health text) (1972), 127 p.
- Eh mohriam hok chu roteang 1-20; Em hoc van bang treo 1-20.

 (Primer wallcharts for lessons 1-20) (1972), 10
 sheets

- Em hoc van tieng Sedang, Lóp vó-long, Phân chi nam. (Primer grade teacher's guide for reading primers) (1972), 309 p.
- Va hnê tódroang kóxô: 1, 2; Lam ki poang, 'Na vai 'Bok thái; Em học toan cho các sắc-tộc, Lóp vó-long, Phân chi nam. (Primer grade Arithmetic teacher's guide) (1972), 104 p.
- Va hnê tódroang krua, tódroang tum khu kê lap luô, 'Bang tódroang êi ka lêm, Lam ki pôang, 'Na vai 'bok thái; Non học bàng bảng treo vê-sinh, khoa-học và đức-dục cho các sắc-tôc, Lốp vố-lòng, Phân chí nam. (Primer grade teacher's guide for wall-charta for Mealth, Science, Ethics) (1972), 159 p.
- Rótéang 1-8. (Primers 1-8) Summer Institute of Linguistics (1966). 8 booklets

II. Scripture materials

Hiáng hlo kế ki ái hiá: tướng mất mà con. (Luke 15 (Sedang and Vietnamese)) Thánh-Kinh Hồi (Bible Society) (1967), 19 p.; (revision (Sedang only)) (1970), 8 p.

Hlá mó-és tódróang Jêsu. (Bible stories: Life of Christ)
(1967), 61 p., mi.; (revision) (1973), 93 p.



PART ONE: INTRODUCTION

The Sedang speak a Mon-Khmer language of the North Bahnaric branch and have lived traditionally in central Kontum Province in the South Vietnam central highlands. Their population has been variously estimated at from 25,000 to 60,000 (NCTXH, 1960) to 80,000 (NNCDT, 1959) (these two references cited by Hickey (1964)).

They refer to themselves as roteang (though the term also has the connotation of the more inclusive "montagnard"), which, when translated into Bahnar (hódang) and transliterated into French, is equivalent to Sedang. Devereux (1957, 1958) has given their ethnonym as hā(rhn)de:(ng).

A brief survey of their history is given in chapter 1, and chapter 2 presents some details of the Sedang culture. Chapter 3 summaries the erroneous classification of the Sedang as Austronesian and the basis upon which it is classified as North Bahnaric.

CHAPTER 1 HISTORICAL AND GEOGRAPHICAL SETTING

The recorded history of the Vietness area begins with the arrival of high-caste Indians, following in the wake of traders who apparently had been visiting the area for a long time. This Indian colonization had taken root by the beginning of the Christian era. Nothing is known, of course, of the prehistoric migrations that resulted in the dispersion of people, like the Sedang, throughout the area. The Funan kingdom was probably the most ancient kingdom encountered by the Indians and was located in the general area now occupied by Cambodia. Sanskrit inscriptions in Southeast Asia date from the early centuries of this era. The Chinese had contact with Punan as indicated in their histories. North of Funan was a small kingdom known as Kambuja, accessible to the Indians by an overland route through Siam and Laos. A fine bronze image of Buddha datable in the 2nd or 3rd century found in the coast of the South China Sea indicates that the Indians had established contact also with the Champa kingdom who were extended along the eastern coast of the peninsula.

The fall of Funan occurred about the middle of the 6th century, due to the growing power of the king of Kambuja. At

the beginning of the 7th century the Kambuja kingdom encompassed the whole of Cambodia and Cochin China. Kambuja was then a dominant power in Indochina during the 9th and 10th centuries. The Kambuja king defeated the Chams in a naval engagement in 1181, but the kingdom broke down when the Thais invaded in the 13th century.

In 1371 the Chams attacked Annam (in what is now North Vietnem) and sacked Hanoi, but in a counterattack the Champa (northern) capital of Indrapure was lost to Annam in 1402. During the next century Annam annexed the whole of Champa down to (present-day) Phuyên, but a diminutive Cham state continued in the south for some centuries. A succession of Cham kings was recognized by China until 1543. A Cham court existed in that region until the 18th century when the Annamese took Phankang.

Except for the Khmers, the recorded history of the area does not deal with the Mon-Khmer peoples of Vietnam. They certainly must have been affected by the warring between Funan and Kambuja, between Kambuja and Champa, and between Champa and the Annamese. Lexical borrowing does attest to their contact with the Champa people, if not also with the Indian colonizers (cf. such borrowings in Sedang, 6.2).

Lexico-statistics show that the four branches of Mon-Khmer found in Vietnam (Khmer, Bahnaric--Sedang is North Bahnaric (cf. chapter 3), Katuic, Vietnamese) are divergent within the range of 18-32% (Thomas, 1966b; Thomas and Headley, 1970; Smith, 1974a). For lack of any other indication or record, glottochronology can indicate a probable point in time when these language branches separated. Taking the lesser cognate relation (or more distant in time) as the more probable point, it can be surmised that Proto-Mon-Khmer split apart about 3800 years ago, or 1800 BC ± 500 years at 9/10 confidence level (Gudschinsky, 1956; Gleason, 1955.88). The Bahnaric group has a principal division at 42-51%, separating North and South Bahnaric; or, 2,000 years ago, about 0 AD ± 300 years. The North Bahnaric languages are separated by a range of 53-74% (see chapter 5), suggesting successive splittings starting about 1400 years ago, or 600 AD ± 200 years.

Correlating these dates with the areal history cited above suggests:

- (1) Non-Khmer separated into its major branches in the prehistoric past:
- (2) Bahnaric separated into its north and south divisions during the time of the Funan kingdom. Perhaps Funan was a Bahnaric group; unfortunately there is no linguistic information on the Funan people.
- (3) The first principal splits within North Bahnaric occurred during the period of warring between Kambuja and Funan.
- (4) Later splits within North Bahnarie which ultimately led to the separation of a people known today as the Sedang occurred during the period of warring between Kambuja and

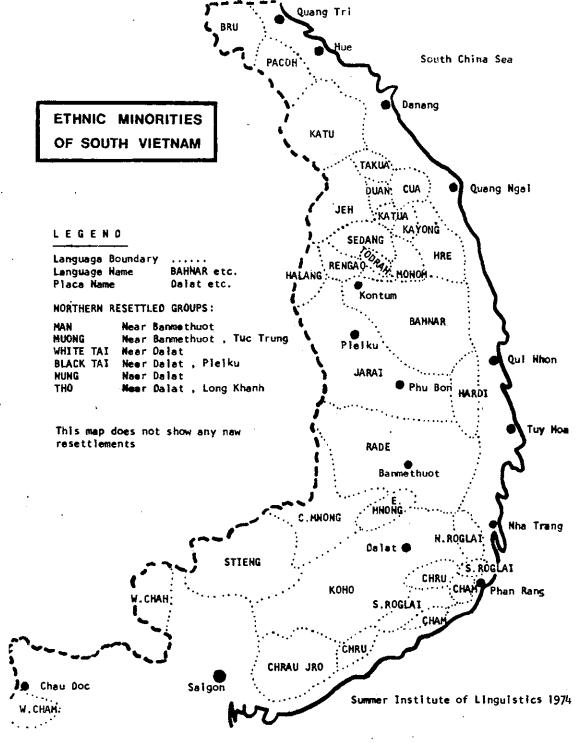
Champa.

Glottochronological studies also suggest that the Cham people left their Austronesian (or Malayo-Polynesian) cousins and reached the shores of Southeast Asia about 850 BC ± 450 years (30-40%: Thomas and Healey, 1962.26-27; Dyen, 1963.

19). The Chamic people subsequently split with an incursion into the Vietnam highland area by the Plateau Chamic people about 800 AD ± 200 years, probably during the time of the Khmer-Champa wars and also probably after the separation of North and South Bahnaric.

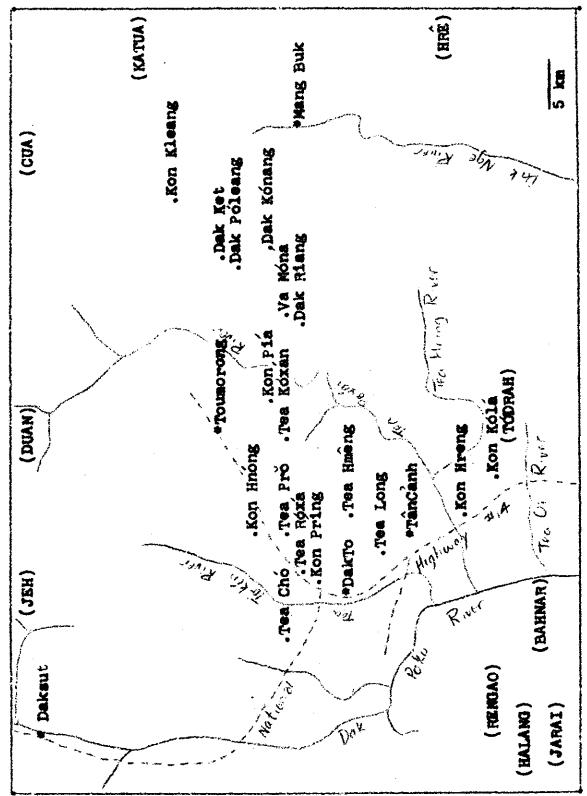
The entrance of the Chamic people into the highlands was the last major factor in determining the general location in the highlands of the Vietnam montagnard groups: the South Bahnaric groups in the south just north of Saigon, the Plateau Chamic groups extending from Banmethuot north to Pleiku, the Bahnar (Central Bahnaric?, cf. chapter 3) between Pleiku and Kontum, and the North Bahnaric language groups throughout Kontum Province and eastward to the coast. The Katuic people are north of the North Bahnaric groups, but separated from them by the Mekong River-South China Sea watershed. Sea Map 1.1.

The Sedang have thus been located in the central portion of what is now known as Kontum Province. The former government district center of Toumorong was probably the geographical center of the Sedang; the district centers of DakSut and DakTo, connected by National Highway #14, were on



Map 1.1 Ethnic minorities of South Vietnam

the western edge of their area; the military outpost of Mang Buk on the eastern edge; and Kon Hreng (or Kon Hring, as it is known outside the Sedang area), the largest (though dislectally strange) village of Sedang, in the southwest. The Sedang have thus been bounded (clockwise from the north) by the Jeh, Duan, Cuat, Kotua, Hre, Todrah, and Rengao peoples. The Bahnar, Jarai (a Chamic group), and Halang peoples have not been very much further away to the southwest. With the watershed on the north and eastern sides of the Sedang area, the lines of communication have been with the southwest. In the west the Poko River flows south and ultimately west into Cambodia at the Yali Palls; in the east the Dak Nge River flows south to the Dak Bla River which encircles Kontum City before flowing into the Poko River. In the south the Tes 01 (or Dak U1) River flows southwest to the Poko River. The most prominant river for the Sedang, however, is the Tea Poxéi (or Dak Pai) River which winds through the central Sedang area from north of Toumorong to the Kon Hreng area where it flows into the Poko River. See Map 1.2. The area is generally very mountainous, but the Sedang probably stay below 3,000 or 4,000 feet elevation (Kontum City has an elevation of 1800 feet). South Vietnam's highest mountain, Ngoc Linh, 8364 feet elevation, known by the Sedang as Ngo Eang, is in the northern Sedang area. It is in an area of tremendous rainfall and is the scene of much Sedang folklore.



The Sedang area (only a few villages are indicated) Map 1.2

The French Catholic missionaries first entered the Vietnam central highlands about 1843 to flee persecution by the Buddhists in the Quinhon area. They established their first mission in Kontum in 1849 in the northern area of the Bahnar tribe among whom their mission has concentrated its work. On October 16, 1853, however, Father Dourisboure baptized the first two Sedang catechumen (Guilleminet, 1952. III.1).

In 1862 there was an epidemic among the Bahnar which was blamed on the presence of foreigners by the sorcerers, at which time "the Sedang aggravated the situation by attacking villages" (Hickey, 1967.748). Such activities by the Sedang must have been commonplace, in that the Sedang have been characterized by the French as warriors and makers of arms, utilizing the iron deposits in their area. Brenier (1948.76) says that "the fighting qualities of the Sedang are indisputable".

In 1885 there were reports that the Sedang streams contained gold and other minerals. In an effort to exploit the area a Belgian adventurer, Marie David de Mayrena, Comte de Ray, set upon a scheme in which he was proclaimed "the King of the Sedang". Born in 1842 in Toulon, Var, and married in 1869, he later got the name of Baron, Charles de Mayrena, while living in Saigon. In 1888 he entered the highlands armed and with the concurrence of government, military and religious leaders to enter into an alliance with Pim, the re-

puted chief of a grouping of Bahnar, Jarai and Sedang villages. The expressed purpose of the alliance was to contribute to extending French influence in those areas, quenching Jarai hostility, and finding a route through the area to Attopeu, Laos. On June 3, 1888, a constitution was signed (Soulie, 1927.82ff), apparently written in French and Sedang. Article 2 stated that since the Sedang teritories were the most extensive in the confederation, it would take the name Royaume Sedang. Article 3 established Mayrens, apparently a man of "striking personality, high courage, boundless self-confidence and marvelous vanity* (Clifford, 1926.854), as Roi des Sedangs. Succession was to be hereditary or appointive by the King. A blue flag with a white cross and red star was designed. The King was given absolute authority. Human sacrifice was forbidden. Preedom of religion was granted. Subsequently a postal and sustoms service was created; for pictures of four postage stamps see Marquet (1927.opp. p. 96), each stamp saying "Deh Sedang". Three decorations were proclaimed ("l'Ordre royal Sedang, celui de Sainte-Marquerite et le Mérite Sedang"); for colored pictures of the medals see Marquet (1927.opp. p. 88). The shield of the kingdom bore the five words Sedang, Kedra, Deh, Begueur, Marie--i.e. Marie the master who rules the Sedang mation. Mayrens renounced his French citizenship and broke up his marriage. Several Sedang chiefs and their villages have been identified as part of the confederation: Lieu of Kon Hering.

Thiam of Kon Keton, Blak of Dak Dry, Brun of Pelu Tebau, and Upico of Kon Trang.

International intrigue apparently entered the scene. In Mayrena's attempts to secure finances and protection for exploitation of the area, he reportedly offered to hand the kingdom over to the Germans. Mayrena took a trip to Europe returning via Singapore. There, in 1890, and under very mysterious and unclear direumstances, he died--and with him so died his Sedang kingdom. (On this entire episode see Clifford (1926), Hickey (1967), Her (1927), Marquet (1927), and Soulié (1927).)

During the 1930's the Sedang opposed French administration and attacked their outposts (Hickey, 1967.753) and burned bridges along the highway.

The takeover of Vietnam by the Japanese on March 9, 1945, had its effects upon the highlanders. It was said that the Japanese feared only the "moi" (savage) regiments in French uniform, while they were rather contemptuous of the other native regiments (Devereux, 1947.394).

After the French regained control at the end of 1945 the VietNinh were in the highlands and the highlanders fought with both sides. (The Sedang continue to call the VietCong by the term VietNinh.) Many Sedang men today can still recall their experiences with the French army. In 1954 Kontum Province came under the control of the government of South Vietnam, although the infiltration of Communist units into

the remote areas caused the Sedang people to be divided, forcibly or otherwise. The Sedang have fought on both sides of the present conflict. During the 1960s the South Vietnam government began moving villages from the distant, isolated, and indefensible areas to locations along the highways. As the communist offensive gained strength the government concentrated Sedang villages in the areas of DakTo, TanCanh, and Mang Buk. Dakto was briefly overrun in the summer of 1968. In the spring 1972 offensive the communist forces pushed through central Kontum Province until they were halted outside Kontum City. The tribal people fled before them, though many were cut off before escape. Those caught behind the communist forces were separated from others who . became refugees in camps about Kontum and Pleiku cities. Without immediate prospect of returning to their traditional lands, almost 10,000 of those refugees -- Sedang, Jeh, Rengao, Hrê, Haroi, as well as Bru from the northern parts of South Vietnam--were resettled in Phu Bon Province and southeast of Banmethuot in areas traditionally belonging to the Jarai and Rade, respectively, Austrenesian groups.

In May, 1974, the fall of Dak Pek, center of the Jeh north of the Sedang area, forced the government to evacuate Mang Buk where several thousand Sedang had established villages and maintained rice terraces. These Sedang then Joined the flood of Sedang refugees around Kontum.

Then in March, 1975, the South Vietnamese government

was forced to evacuate the highland provinces altogether and the communist North Vietnamese forces gained complete control of the area. The Sedang were once again divided as some remained in Kontum Province while others fled to the coastal areas which quickly proved to be no refuge.

Beside the unfortunate human toll and social dislocation caused by the war, there is the additional linguistic shock of intermingling peoples not only of different related languages but also of different linguistic stocks. Thus the next decade may cause the evolution of a further dimension in the linguistic history of such Vietnam montagnards as the Sedang.

(On general history of the Southeast Asian area see Coedès (1966).)

CHAPTER 2 CULTURAL SEETCH

This brief sketch of Sedang culture is included only as an orientation to their way of life and is divided into a few topics: livelihood, social organization, religion, dress, and industry.

Livelihood. The Sedang are farmers, hunters, trappers, and fishers. Their basic crop is rice. They practice slash and burn agriculture in swiddens scattered around the villages, using a given field for two or three years before abandoning it; twenty or thirty years later they may return to a field, cut down and burn the jungle overgrowth, and plant with their dibble sticks another crop of rice. In a few areas (e.g. Mang Buk, Kon Hreng) paddy rics is cultivated. They have a variety of implements like hoes and axes with which they also plant and cultivate corn and manioc in their fields. Within the village they maintain gardens in which they grow tobacco, squash, pepper, potatos, bananas, and other fruits and vegetables. In the surrounding jungles they hunt for deer, boar, wild chickens, tigers, etc.; their crossbows and arrows have been replaced with guns, except that the security situation of recent years has restricted most of their hunting. The

men weave and make a variety of bamboo traps for catching small animals, birds, and fish. The women go out and cut firewood which they carry back to the village in high-piled back baskets. The women have the responsibility of carrying water, caring for the children, weaving cloth, pounding and winnowing rice, and meal preparation. Rice wine, as well as wine prepared from other foods, is almost always present in large jars tied to the center post of their houses. Chickens and pigs, cows and water buffalo are kept for sacrifices and food. Hickey (1967.757) reports that there continues to be instances of slavery among the Sedang.

Social organization. The largest Sedang social unit is the village. Occasionally villages have banded together to make attack against a mutual enemy, but intervillage political ties are not predominant among the Sedang (Devereux, 1937). A Sedang village will have as few as three houses or, as in Kon Hreng, as many as several hundred. The extended family lives together in a house though each immediate family has its own apartment.

Their kinship system is bilateral and after marriage they practice bilocal residence; i.e., after marriage they will spend a few weeks with one set of parents--either set--and thereafter live permanently with the other. (For Sedang kinship terminology see Smith (1974b).) Marriage is permitted only if at least six generations--counting up and down--

separate a boy and girl; i.e. they cannot have the same great-great-grandparents. Marriage outside the tribe is permitted; warring parties have gone to Bahnar and Jarai areas to secure women for wives. Polygamy has been practiced though forbidden by the Catholic priests.

Respect is given to the elders. Decisions are made by the older men together, meeting in the village communal house which also often serves as the dermitory for bachelor boys. A village chief may be selected to organize the villagers into group projects like widening paths, repairing fences, etc.

Soulie (1927.69) says that a Sedang boy would not be respected as a man until his first murder.

Religion. The Sedang have been animists, believing in a pantheon of gods, and making sacrifices and offerings to the spirits which surround their lives. Sacrifices are demanded by the shamans in time of death, illness, planting, harvest, etc. Chickens, pigs, and water buffalo are slain at the base of the spirit pole after a night of drinking and dancing. Their expensive Lactian garments are brought out for the dancing, accompanied by the playing of gongs, cymbals, and drums. At death, dancing proceeds to the burying ground outside the village where the casket with the body is buried and a small shelter erected in which are placed various foods and implements for use by the spirit of the deceased.

Devereux (1938) discusses the place of divination and the throwing of dice in their culture.

Human sacrifice was specifically prohibited in the constitution of the Sedang Kingdom of 1888 (Article 8, Soulie, 1927.84), but was reported by Cupet (1893.218) and as recently as 1930 by Devereux (Hickey, 1964.149).

Today many Sedang villages, perhaps most of those who fled the communists, are at least nominally Roman Catholic and have forsaken many of the former "heathen" practices.

Dress. The traditional dress of Sedang men has been a loincloth, and of Sedang women a skirt. They wrap blankets around themselves in cold weather. Since their participation in the French army, the men have worn pants, shirts, boots, etc., though not necessarily at home in the village. Women have started wearing blouses. Beads around the neck, brecelets on the wrists, or rings through the ear are adornments often seen on women. The women have exquisite skirts and the men robes from Laos which are reserved for special imes of sacrifice, dancing, or festivity.

Industry. Early records about the Sedang mention their iron working, a factor which possibly prepared them materially to be warriors in the past. Another natural resource of their area is cinnamon, though it has not been exploited as much by the Sedang as by the Cua to the northeast.

References. Other descriptions of or references to Sedang culture--none of any significant depth--include the following: Baudesson (19197.54-55, on marriage); Brenier (1948, a review of Devereux (1947)); Cupet (1893.216,218, on human sacrifice); Devereux (1937, on social units of tribe, region, village, house, family, and individual); Devereux (1938, on divination and dice throwing); Devereux (1947, on various qualities of the Sedang); Guilleminet (1952, on laws and marriage); Hickey (1964, a general sketch); Hickey (1967.753, on spiritism); Hoffet (1933.24, drawings of Sedang houses); Mansuy (1929.85, on prehistoric studies); Maspero (1929a, a general discussion); Maitre (1912); Smith (1974a, the kinship system).

CHAPTER 3 LINGUISTIC APPILIATION

The distinction between the Chamic and the Mon-Khmer languages (though not always making an Austronesian versus Austroasiatic break) has almost always been made by those who have classified the languages or people of Vietnam. Sedang is unique, however, among the Vietnam languages in that it has been classified with both groups by serious scholars.

The Chamic connection. Schmidt (1906.18), in Die Mon-Khmer-Völker, constructed a superfamily composed of Austronesian and Austroasiatic languages. The latter was divided into seven subgroups. The first group was a "Mixed group" including Cham, Rade, Jarai, and Sedang. The second group was a "Mon-Khmer group" including Mon, Khmer, Bahnar, and Stieng. The stated basis of the mixed group was that those languages were Mon-Khmer in construction and word-building, but have appropriated a considerable number of Malayan loan words, including the personal pronouns and numerals. In evaluating this group Thomas (1964b.152) correctly asserts that this group is "fanciful" in that Cham, Rade, and Jarai are indisputably Austronesian and Sedang is clearly related

to Bahnar. Schmidt's reviewers, Ray (1907) and Finot (1907), as well as the French translation of his book (Schmidt, 1907), repeated the same classification. Przyluski (1924. 390) was under Schmidt's influence as he said that the Mon-Khmer family had three civilized languages to attest to its antiquity: Mon, Khmer, and Cham. He then classified the Mon-Khmer languages "geographically" and established a central group with Khmer, Bahnar, Stieng, and Rengao, and an eastern group with Cham, Jarai, Rade, and Sedang which shared a Malayan influence. Schmidt (1926.138, 140) retained the same mixed group of Cham, Rade, Roglai, Jarai, and Sedang. Marquet (1927.74) says that the "Moi" -- Sedang, Jarai, Rengao, Radê--are undoubtedly of Malayo-Polynesian origin. Kieckers (1931.114) repeats Schmidt's grouping, placing Sedang in a Cham language group of Austroasiatic. Sebeok (1942.206) attempts to summarize the grouping of languages but retains Sedang within a Cham group of Mon-Khmer languages. And as recently as 1952 Faubles (1952.652), though not confusing Austroasiatic with Austronesian languages, nevertheless included Sedang with Cham as part of the Indonesian group of Malayo-Polynesian languages. And Reynaud (1962) attempted to form sound laws within Bahnar, Jarai, and Gedang, as well as between them and Vietnamese.

Mon-Khmer conjecture. Writing at the same time that Schmidt was preparing his earliest work, Cabaton (1905.271-2), on the

basis of many word lists, realized the necessity to establish three families of languages: (1) those with Malayo-Polynesian resemblances (including Cham), (2) those like Khmer (including Stieng, Chrau), less like Khmer (Bahnar, Sedang, Halang), and somewhere between this group and the following group (Khmu*, Lamet); and (3) those like Tibeto-Burman and Tai. Sedang, it is noted, is here correctly classified with Bahnar and Halang.

Correct classification has sometimes been mixed with untechnical jargon, as when Mayrena, the King of the Sedang, is quoted (Soulie, 1927.26) as saying that Cham and Jarai were similar but "quant aux dislectes Bahnar et Sedang, ils ne sont pas très différents de l'annamite vulgaire. D'ailleurs, auprès de ces tribus, j'aurai pour interprètes les Pères de la Mission des Bahnars."

Maspero (1929b.64-65) subdivides the Mon-Khmer family without specific criteria into many groups, including a bahnar group (Rengao, Jalung, Galar, Halong) and a Sedang group (Dadrah, Halang, Rengao, Kamrang). Devereux \$1937.1; 1938.125) only classified Sedang as a "typical Mon-Khmer Moi tribe". Brenier (1948.75), reviewing Devereux's 1947 article, speaks of "the Bahnar (a branch of the Sedang)";

Pinnow (1959.3) has a classification similar to Maspero with Mon-Khmer subdivided into many groups including a Bahnar group (Bahnar, Rengao, Jalung, Halong, etc.) and a Sedang group (Sedang, Dadrah, Halang, Rengao, etc.). The

German language atlas (Salzner, 1960.4) subdivides Austroasiatic into a west group (Khasi, Nicobarese, etc.), east group (Non, Khmer, "Noi"), a Chamic group, and Yumbri. Sedang is classified with the Moi of the east group on a par with Bahnar. Bahnar subsumes Rengao, Jelung, Halong, etc., and Sedang subsumes Dadrah, Halang, Rengao, Duan, Hre, etc.

Coedès (1962; 1966.33), the venerated Southeast Asian historian, discussing differences in language and kinship relations, notes that the Cham and related tribes speak languages belonging to the Indonesian family and have a matriarchal system, whereas there is another group, consisting of the Bahnar, Sedang, Mnong, and other tribes whose languages belong to the Mon-Khmer group and whose family is usually patriarchal.

Voegelin and Voegelin (1966.28) repeat a classification similar to that of Maspero and Pinnow.

Structural classification. On the basis of a lexico-statistical study Thomas (1966) clearly distinguished the Katuic
(Katu, Pacoh, Bru) and Bahnaric branches of Mon-Khmer in Vietnam. Cognate percentages also enabled a further distinction
to be made betwen the North (Cua, Hrê, Sedang, Bahnar, Monâm,
Jeh) and South (Chrau, Koho, Mnong, Stieng) Bahnaric language
groups. This study was expanded by Thomas and Headley (1970)
to include a Pearle branch and to present an outline of the
general Mon-Khmer framework. Sedang continued to be correct-

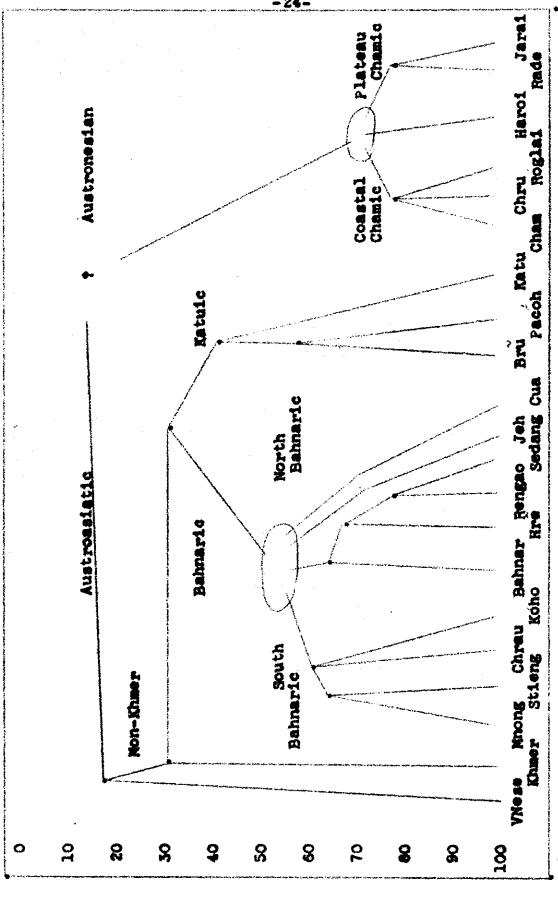
ly classified as North Bahnaric.

The present writer has confirmed these divisions (Smith, 1974a) utilizing a computer program that compared 281-item word lists from 32 languages and dialects of Vietnam with every other list and structured the languages into a language tree relationship on the basis of cognate percentages. Figure 3.1 shows a language tree of Vietnam languages derived from these comparisons in which Sedang is clearly shown to be North Bahnaric, indisputably separate from the Austronesian languages. Chart 3.1 shows the cognate percentage distance of the other 31 languages from Sedang using the 281-item word list and three subsets of the list.

Lexico-statistical studies are perforce a first approximation of genetic language relationships while the science awaits phonemic analyses of languages which permit structural studies and phonological reconstructions. Linguistics in Vietnam has recently arrived at this stage.

Thomas and M. Smith (1967) made the first phonological reconstruction, showing the clear relation between Jeh and Halang and positing Proto-Jeh-Halang. Smith (1972) then included Proto-Jeh-Halang with Bahnar, Hrê, and Sedang to reconstruct Proto-North-Bahnaric (cf. chapter 6). In this reconstruction Sedang was shown to be most closely related —on a phonological basis—to Hrê, both being descendants of Proto-Hrê-Sedang. Similar studies have also been made of the South Bahnaric languages (Blood, 1968; Phillips, 1971





Language tree of Vietnam languages derived from 281-word list cognate percentage comparisons (adapted from Smith, 1974s) (circles indicate 11ndistinct separations) Figure 5.1

	212- word list	100- word 11st	281- word 11st	200- word list	differ- ence	Thoma: (1966)
Greater Sedang	95	97	94	96	3	
Todrah	. 90	88		85	5	
Rengao	80	74	74	71	9	
Hre BaTo	72	76	66	68	10	
Hre SonHa	71	75	66	67	9	
Bahnar Kontum	67	64	62	59	8	
Bahnar Pleiku	65	63	59	57	8	
Jeh	67	58	60	56	11	
Cua	54	52	50	48	6	
Chrau Jro	49	47	44	39	10	44
Chrau Prang	49	47	44	39	10	
Mnong Rolam	49	46	44	39	10	46
Stieng	49	43	44	39	10	44
Koho Chil	49	40	44	39	10	
Koho Lech	48	38	44	39	9	
Mnong Central	50	42	43	38	12	•
Koho Sre	47	39	42	36	11	39
Bru	51	33	30	28	5	31
High Katu	28	33	26	22	6	33
Low Katu	27	31	24	21	6	31
Vietnamese	26	30	24	26	10	!
Pacoh	26	29	25	24		27
Chmer	27	23	25	24	5 4	
Jorai	21	19	19	19		
Rade	19	16	18	16	3	
Moroi	18	16	17	16	2	
Chru	17	. 19	16	18	3	
N. Roglai	17	18	16	15	3	
d. Cham	16	17	16	16	2 3 2 3 5 2 5 3	
E. Cham	15	17	15	14	5	
S. Roglai	15	16	14	13	3	

Chart 5.1 Cognate percentage of Sedang with 51 other Vietnam languages and dialects (the 212-, 100-, and 200-word lists are subsets of the 281-word list, the 100- and 200-word lists being the Swadesh word lists; the maximum difference between these figures for each language is indicated and the Thomas (1966) percentage if available; taken from Smith (1974a))

--which also duplicated the North Bahnaric work and reconstructed Proto-Bahnaric, but as a Ph.D. dissertation is yet unsubmitted) and Katule languages (Dorothy Thomas, 1967).

Despite the lexico-statistical classification of Bahnar with the North Bahnaric languages, both North Bahnaric phonological studies cited above suggested rather a South Bahnaric classification of Bahnar, explaining the northern geographical location of the Bahnar as a result of migration away from the South Bahnaric languages caused by the high-land insursion of the Plateau Chamic language groups. Subsequently Gregorson, Smith, and Thomas (1973) have proposed that Bahnaric, with Alak, may be from another Bahnaric branch --Central Bahnaric. Thus, the most recent view concerning the structural, genetic relationship of the Bahnaric languages is as follows:

Bahnaric languages

- North Bahnarie
 Sedang, Rengao, Halang, Jeh, Mónâm, Kayong, Hrê,
 Tódrah
- Central Bahnaric
 Bahnar, Alak
- East Bahnarie
 Cue, Kétua
- 4. South Bahneric Stieng, Mnong, Kóho, Chrau

5. West Bahnarie

Loven, Nyaheun, Oi, Brao, etc.

PART TWO: SEDANG PHONOLOGY

Introduction to Part Two

In Sedang phonology there is unusual dynamism of both synchronic and dischronic dimensions. Sedang phonology differs significantly from that of neighboring languages; widespread morgers have left holes in the phonological pattern which are currently being filled by new loans. This diachronic aspect is discussed in chaper 6. Many stages of the historical development of Sedang phonology are still apparent in Sedang dialects for, as the Sedang say, Rem pole topui ti e 'Every village speaks differently.' Synchronic variations of Sedang phonology are presented in chapter 5. These two discussions, however, must be preceded by the presentation of a single complete (synchronic) phonological system of Sedang representing one dialect (chapter 4). The dialect chosen is that known as roteang koklai 'Sedang that uses koklai "what"! which is a principal and central (ethno-) dislect, taking that subdialect of roteang koklsi which retains final masals with laryngealized vowels (instead of denaso-delaryngealized forms with glottal stop replacement). This dialect is most

readily intelligible both orally and in written form to the broadest scope of Sedang speakers. This dialect is spoken in villages such as Tea Kolap, Dak Rowang, and Va Mona.

In applied linguistics (e.g. preparation of literacy materials) the writer has found that phonological statements of the phonemes of a language are frequently inadequate; they need to be supplemented by statistical studies of the frequency of occurrence of each phoneme in both dictionary lists and sample texts as well as by detailed distributional statements (as outlined in, for example, Gudschinsky (1975)). The present phonological statement attempts to give emphasis to both the distribution and the frequency of each phoneme.

The frequency of phonemes in text, as cited in chapter 4 as "text count", indicates the number of occurrences of a given phoneme in a 27,437-word corpus of Sedang texts for which a concordance had been prepared (see Acknowledgements) and the phonemes subsequently counted by a computer program (cf. Smith, 1974f). The frequency of phonemes in a dictionary listing, cited as "dictionary count", was determined two ways. Por presyllables and main syllable initial consonants and consonant clusters, the writer's approximately 5,000-word manuscript Sedang-English dictionary was used and the phonemes counted manually; for elements of the vowel plus final-consonant clusters (because of the unavailability of the writer's larger rhyming dictionary of Sedang words which would have facilitated such counts) a tabulation of the 1409

different words which occur in the aforementioned 27,437-word corpus of texts was substituted as a dictionary and the phonemes counted in the computer program referenced above.

The Sedang practical (basically phonemic) orthography is used throughout with phonetic detail given for each non-standard symbol where it is introduced. (See also List of Abbreviations for Part II.)

Sedang phonology was described in Smith (1968), but that of chapter 4 is completely rewritten and expanded. Sedang dialectology of chapter 5 is a summary of that presented in Smith (1967b, 1969b, 1975a, b); and the historical description of Sedang phonological development is a summary from the Sedang point of view of material presented in Smith (1972) and Gregerson and Smith (1975).

(C, consonant; V, vowel; G, vowel glide; N, nasalization; R, register identification; subscripts: p, presyllable; m, consonant cluster modifier; i, initial; f, final) All words are of either the lax register (clear, normal vowels) or the tense register (laryngealized, "creaky voice" vowels). The phonological statement of Sedang emphasizes both the distribution and the frequency of each phoneme. The frequency of phonemes is cited as both "dictionary count" and "text count", the former based on a 5,000-word dictionary, the latter on a 27,437-word text.

The Sedang area is replete with geographically identifiable dialects affecting each aspect of Sedang phonology. The Sedang have at least seventeen terms identifying cartain (ethno-)dialects. The de-nasolaryngealization phenomenon crosses the Sedang area such that tense register words with final masal consonants in the west and southwest correspond to words without vowel laryngealization, with final masal consonants replaced by final glottal stop, and with back-, front-, and unglided vowels (reflecting the bilabial, alveolar, and velar masal consonants, respectively) in the central Sedang area.

The phonological development of Sedang from Proto-North-Bahnaric evidences massive loss of final consonants and considerable shifting of words from the tense register to the lax register. There are traces in Sedang of Sanskrit, Chamic, French, Vietnamese, and Bahnar borrowings.



CHAPTER 4 A SEDANG PHONOLOGICAL SYSTEM

4.0 Introduction

Phonological words in Sedang are either mono- or bisyllabic. Monosyllabic words consist of one (usually) stressed "main syllable". Bisyllabic words consist of a preliminary unstressed "presyllable" and a (following) stressed main syllable.

Bisyllabic words functionally are generally found among the open classes of words--nouns, descriptive names, verbal adjectives and main verbs, although bisyllabic words are also found in closed classes--pronouns (but not the personal pronouns), numbers, classifiers, temporals (see Part Three).

Monosyllabic words functionally are found in all word classes, but some word classes are almost exclusively composed of monosyllabic words. The only open class of words which is predominantly monosyllabic is personal names (7.1). The closed classes of words which are predominantly monosyllabic include personal pronouns, demonstratives, plural markers, prepositions (except kódam, pópêng), preverbs (except mó-éam, póxiam), verbal particles, preverbal adverbs (except hómun), equative verbs, the existive verb, the many particles of clause peripheral phrases, final particles (except diido),

exclamations, responses (except <u>o</u>-oh), series particles, and clause conjunctives (except <u>toma</u>). Monosyllabic function words if spoken (unnaturally) in isolation are stressed; many in context are unstressed.

A dictionary count shows that 60% (2854/4768) of Sedang words are monosyllabic whereas in text 91% (25,038/27,437) are monosyllabic. Thus bisyllabic words play the lesser role in both instances (40%, 9%, resp.).

Affixation is restricted to monosyllabic roots forming bisyllabic derivatives. One trisyllabic derivative has been encountered, however, with the adversative affix <u>ló-(lókódé</u> '(adversity of) kill') raising the question of analyzing <u>ló-</u> as a particle rather than as an affix (12.3).

The main syllable consists of an initial consonant position (4.1) filled by an initial single consonant (C_1) with or without a preceding and/or following consonant cluster modifier (C_m) followed by a register-identified (R) vowel plus final-consonant cluster (4.2) filled by a simple (V) or glided (VG) vowel (with optional masalization (N)) and final consonant (C_r).

Presyllables (4.5) consist of a presyllable consonant ($C_{\rm p}$) and presyllable vowel ($V_{\rm p}$).

A phonological word may thus be summarised:

presyllable main syllable

Word:

 $(c_p v_p)(c_m) c_1(c_m) v(g)(x)(c_f) R$

initial vowel plus consonant final-consonant position cluster

A minimal phonological word: a 'I'

A maximal phonological word: tóklóam 'to run into each

other!

ho'rak 'bloody'

kó'blin 'to be very full'

Phonological word reduplication is discussed in 4.4, and alphabetization in 4.5.

4.1 Initial consonant position

The initial consonant position of the main syllable may be filled by either an initial consonant or initial consonant cluster.

The dictionary count shows that 69% (1960/2854) of all monosyllabic words have a single consonant—in opposition to a consonant cluster, and 78% (1498/1914) of all bisyllabic words have a single consonant. Or, among all words 73% (3458/4768) have single consonants whereas in text 86% (23,454/27,437) of all words have a single consonant. Thus

consonant clusters play the lesser role. Consonant clusters occur more frequently in monosyllabic than bisyllabic words (31% versus 22%), but only one word in seven in text has a consonant cluster.

See 4.3 for cooccurrence restrictions of presyllables and following initial consonant. See 4.2 below for cooccurrence restrictions of masalized vowels and preceding initial consonant. There is no other observable cooccurrence restriction of initial consonant with following vowel, vowel glide, final consonant, or register identification.

Initial single consonants. The initial single consonants are charted in Chart 4.1. The four basic articulatory positions are bilabial, alveolar, alveopalatal, and velar.

There is a series of five voiceless stops including glottal stop. Before (otherwise) initial vowels glottal stop

ř		Bilabial	Alveolar	Alveo- palatal	Velar	Glottal
	νl	p	t	ch	k	7
Stop	vd	ъ	đ	3	£	
	nasal	R	n	nh	ng	
Oral	٧l	X s	x a			h
	vd	Y	1 r	y		

Chart 4.1 Initial single consonants, C1

is unwritten in monosyllabic words and is written with a hyphen in bisyllabic words. The digraph ch represents [c].

There is a series of four prenasalized voiced stops [mb, nd, nj, ng].

There is a series of four massls. The digraphs \underline{m} and \underline{n} represent $[\hat{n}, \, \eta]$.

x is a voiceless alveolar grooved fricative [s]; s is a voiceless retroflexed alveolar fricative [s] which in some (older, toothless!) speakers occurs as a whistle. (In Smith (1968) the retroflexed fricative was analyzed as a consonant cluster xr for reasons of economy; that analysis is here abandoned for psycholinguistic reasons—educated Sedang completely rejected its orthographic implications); h is a voice-less glottal fricative though it assimilates to the shape of the following vowel.

Chart 4.2 shows the frequency of the single consonants in both the dictionary and text count. Four voiceless stops account for 38% of all words in the dictionary—a result of specific historical sound mergers (6.1). As a group the four voiced stops occur infrequently in the dictionary (10%) in that they are not reflexes from Proto-North-Bahnaric. The least frequent consonant, y, is currently entering the language thru loans from Bahnar, Vietnamese and French.

Contrary to all other initial consonants, \underline{n} , \underline{l} , \underline{b} , and \underline{l} occur more frequently in (the less frequent) bisyllabic words than in monosyllabic words. \underline{n} has a high proportion of cooc-

	Dict	1onary	Count		Text C	ount
	Monosyl.	Bisyl.	A11	words		·
	No.	No.	No.	K	No.	*
t	256	165	421	12	2982	12
p	555	109	331	10	1825	8
ch	197	88	285	8	1126	5
k	158	103	261	8	2868	12
x	165	95	260	7	787	3
n	62	171	233	7	703	3
1	53	160	213	6	1161	5
h	145	57	202	6	1149	5
	121	76	197	5	2442	10
r	113	83	196	8	279	1
•	119	69	188	5	4139	18
đ	56	86	142	4	560	2
ъ	34	65	99	3	145	1
ng	53	44	97	3	563	2
٧	55	34	89	3	1014	4
3	37	42	79	2	154	1
nh	35	26	51	2	94	0
8	50	9	59	2	68	0
8	19	15	34	1	1375	6
y	10	1	11	0	20	0
Tota	1960	1498	3458	101	23454	98

Chart 4.2 Dictionary and text frequencies of initial single consonants

currence with presyllables ho- and ko-; 1 with ko- and po-; b with ho-, ko-, ro-, and to-; and J with ho- and to-.

The ranking of these consonants by text frequency differs from the dictionary count under the influence of high frequency function words. The ranking of consonants by text frequency is, in part, cited in Chart 4.3 with 18 highly influential function words with their rank (among all words in the text) and text frequency. Minus the effect of their occurrence in the listed function words, the text frequency of the single consonants begins to correspond more to their dictionary count frequency. Note, for example, the infrequent occurrence of g in text epart from the pronoun ga.

pa 'father'

ta 'to place within'

cha 'body; to get; to be able'

ica 'to eat'

a 'to, toward'

ba 'to shine'

da 'to hold for pouring into; to pull latch'

ja 'grandmother; to carry'

ga 'dawn'

me 'eye; bress; wrist, ankle'

na 'sister; fish net; time'

Cons.	Cons.	Function	Function	Word	Word	Cons. freq. in	Cons. freq. in
rank	Specimently and surprised the second and second	word	man, apain (Pir are in a se year consistence de Appain, quant la desper en la copie de la copie de la copie de	rank	freq.	funct. words	other words
1	7	á	Pron 'I'	3	684		
		ôh	Neg.Pt.	7	478		
			Prep. 'to'	14	329		
		e h	Pron. 'he'	15	306		
		ái	pvb, T & Ex vb	16	290		
		ah	future Pt.	17	285		
The second section of the section of th		น	pVb, PurPt	19	277	2649	1490
2	t	t1	Neg.Pt.,ManPt	6	521		
······································		ta	Neg.Pt	10	355	876	2106
3	k	kô	Dem.	4	593		
		ki	RelPt	8	404		
		kô	RelrPt	21	233	1230	1638
4		me	Dem 'that'	1	1707	1707	735
5	P	pin	Pron 'we'	18	284	284	1541
8	E	gá	Pron 'he,'	2	1334	1334	43
7	1	-	•	-	0	0	1161
8	h	hiáng	VPt 'already'	9	376	376	773
9	ch	-	-	-	0	0	1126
10	٧	vai	Pron 'they'	5	558		
		Va	pVb,C Vb 'want'	12	333	891	123

Chart 4.3 Initial single consonant frequency in the 18 most frequent function words

nha 'grass'

nga 'top edge of container'

xa 'to weave; to cut meat'

sa 'mother-in-law'

ha 'crowded'

va 'to want'

la 'to dip in water; (of sun) to set'

ra 'certainly; to ambush'

ya cha 'house lizard'

Initial consonant clusters. There are five types of simple consonant clusters with cluster modifier (C_m) either before or after the cluster center. The cluster center is a simple initial consonant (as described above) though not all simple consonants function as a cluster center. There are two consonant cluster types with the cluster modifier before the cluster center:

- (1) h-, voicelessness, for voiceless nasals and orels: hm, hn, hnh, hng, hv, hl, hr, hy.
- (2) '- (apostrophe), glottal, for preglottalized voiced stops, nasale, and orals: 'b, 'd, 'm, 'n, 'nh, 'ng, 'v, 'l, 'r. 'g does not occur and 'j questionably once (except in personal names (Smith, 1969c.190)) consistent with Southeast Asian areal phonology. 'y does not occur because y as a recent

phoneme in Sedang hasn't developed this cluster yet. Another Sedang researcher, Wands Jennings, reports (in personal correspondence) a series of preglottalized voiceless stops ('p, 't, 'ch, 'k) in some words here analyzed as having voiceless stops.

There are three consonant cluster types with the cluster modifier after the cluster centers:

- (3) -h, aspiration, for the aspirated consonants: ph, th, kh (s very small proportion of Sedang speakers claim to distinguish ch and chh).
- (4) -1: pl, tl (perhaps only a dialectal variant of kl), kl, bl, gl, ml.
- (5) -r: pr, tr, kr, br, dr, gr, mr, ngr.

Complex consonant clusters have a cluster modifier both before and after the cluster center. The following have been observed: 'br, 'dr, 'mr, 'ngr, 'bl, hngr (only in two personal names).

The above consonant clusters are shown in Chart 4.4. Most cluster centers are members of two or three different consonant clusters; m belongs to five, b and ng each to four, and y only to one. Single consonants which do not occur as cluster centers are ch, j, x, s, h, and ' (glottal stop).

The dictionary and text frequencies of the consonant clusters is given in Chart 4.5. dr has an unusually high occurrence in bisyllabic words, especially with presyllables ho- and ko-. pr has a higher text frequency than dictionary

Cluster modifier:	-h	-1	-r	h-	1.	'-r	'-1
Cluster center:							
p	ph	pl	pr				
t	th	(tl)	tr				
ĸ	kh	kl.	kr				
þ		bl	br		• 6	br	'61
a			dr		٠d	dr	
g		gl	gr			'gr	
*		ml	n.	itun	*m	'Ar	
n				hn	'n		
nh				hnh	'nh		
ng			ngr	hng	'ng	'ngr	
٧				hv	14		
1				hl	13		
r	:			hr	· r		
y				hy			

Chart 4.4 Consonant clusters, $(C_m)C_1(C_m)$

frequency because of the high text occurrence of the pronoun prei 'those two' and container verb pro 'to do'; kh because of the quotative verb khen 'to say'; 'n because of the container verb 'nai 'to know'; and hl because of the container verb hlo 'to see'.

Chart 4.6 indicates the frequency of cluster centers,

	Dieti	Text	Count			
	Monosyl.	Bisyl.	All w	ords		
	No.	No.	No.	%	No.	%
dr	39	116	115	12	514	13
tr	72	31	103	8	361	9
kl	73	28	101	8	397	10
kr	75	26	101	8	149	4
pr	84	5	89	7	420	11
pl	58	12	70	-5	68	2
kh	55	9	64	5	328	8
'n	31	23	54	4	396	10
hr	44	10	54	4	121	3
bn	35	15	50	4	73	2
h1	34	10	44	3	343	9
hm	57	7	44	3	128	3
ph	40	2	42	3	41	1
ď	27	12	39	3	173	4
24 othe	rs 190	110	300	23	471	12
Tota	894	416	1310	100	3983	101

Chart 4.5 Dictionary and text frequencies of consonant clusters

	Diet.	count	Text	count
	No.	K	No.	75
k	266	20	874	55
p	201	15	529	13
đ	180	14	54 5	14
t	129	10	469	12
Þ	107	8	259	7
n	104	8	469	12
	93	7	169	4
1	69	5	371	9
r	68	5	143	4
nin	40	3	23	1
٧	21	2	23	1
g	16	1	9	o
ng	13	1	97	2
y	3	0	3	0
Total	1310	99	3983	101

Chart 4.6 Dictionary and text frequencies of cluster centers

subsuming together all consonant clusters of which they are a part. Chart 4.7 indicates the frequency of cluster modifiers, subsuming together all consonant clusters of which they are a part.

	Dist. count Text co		count	
	No.	8	No.	15
-r	503	39	1479	37
h-	229	18	796	20
1-	219	17	703	16
-1	214	16	507	13
-h	129	10	460	12
1-1	11	1	35	1
1-r	5	0	3	0
Total	1310	101	3983	101

Chart 4.7 Dictionary and text frequencies of cluster modifiers

pha 'different'

the 'to hurry'

kha 'to block--as a road block'

pla 'to mediate; flame'

tlua 'white'

kla 'tiger'

bla 'to push over'

gla glang 'to fly hither and yon--as of leeves' mloi 'fireworks'

pra 'sacrifice harness'

tra 'to shine; to strip leaves of plant'

kra 'old'

bro 'to prepare'

dra 'shelf'

grem 'to run into a stick on a trail'

mre 'wicked'

tongroh 'tall, elderly sick person'

hma 'to be acquainted with'

hna 'to bud'

hnha '(of butterfly wings) to lie down'

hngam 'heavy'

hva 'to chip'

hla 'dead'

hra 'clean; to lack'

hyo 'to scrutinize'

'ba 'never, at long last'; 'ba tonen 'shooting range'

'do 'classifier for bamboo; small boat'

'jo 'a marrow but tall pile'

'mo 'to hug'

'na '(series particle)'

'nham 'to soak up water'

'ngei 'up high'

've 'bowtrap arms'

'lau 'papaya'

'rang 'classifier for arrows'

be 'bre 'commonplace'

'drum 'dra 'lots of something (as of bamboo)'

'greo 'fork, rake'

'mruo 'arguer'

'ngrang 'cast iron'

'bla 'type of glutinous rice'

4.2 Vowel plus final-consonant clusters

The vowel system cannot be discussed apart from final consonants in that a different set of vowels is found to occur with each final consonant, i.e. not all vowels occur with all final consonants. More important, neither vowels nor final consonants can be discussed apart from "register" in that not all final consonants or otherwise permitted vowel plus final-consonant elusters occur with both registers. It has been shown (Gregorson and Smith, 1973; Phillips, 1971; Smith, 1972) that the historical development of vowel plus final-consonant clusters has differed considerably for the two registers (6.1). Though the following sections each deal with a separate entity of the vowel plus final-consonant cluster, their interdependence will be noted. ("Yowal plus final-consonant cluster", VCr, is to be read as "a cluster of vowel plus final consonant" in that there are no final consonant clusters.)

Register. Each vowel plus final-consonant cluster is identified as belonging to either one of two registers (R) which are here termed tense register (TR) and lax register (LR). (Terminologically there is not yet consensus among Southeast Asian linguists for the register phenomena. Some of the sets of terms in current use are given in Chart 4.8.)

In Sedang (unlike other Mon-Khmer languages) lax register vowels (orthographically unmarked) are clear and "normal".

Tense	LAX	Halang: Cooper and Cooper
register	register	(1966.97)
		Jeh: Gradin (1966.46)
		Ngeq: R. Smith (1973.84)
		Hrê: Phillips (1973)
		Sedang
Pirst	Second	Khmer: Henderson (1952.151)
register	register	Jamob (1968)
		Hrê: Phillips (1962)
		Bru: Miller (1967)
Low series	High series	Khmer: Jenner (1966.37)
Head	Chest	Khmer: Henderson (1952)
register	register	Mon: Shorto (1962, 1967)
Retracted	Advanced	Rengao: Gregorson (1971, 1975)
tongue-root	tongue-root	Cf. Halle & Stevens (1969)
position	position	

Chart 4.8 Register terminology in Mon-Khmer linguistics

Tense register vowels (orthographically marked with acute _)
are laryngealized or glottalized; there is trillization of
the vocal cords. The term "tense" thus refers to the tensing of the vocal folds required to produce this marked, slow
trillization, sometimes called "creaky voice" (cf. Ladefoged
(1971) for a photograph of the vocal cords in creaky voice
position).

Spectrograms of the Sedang laryngealized syllables appear the same as the corresponding clear vowels during the syllable peak with normal pulsing. The vowel termination in non-repid speech, however, is unique. The time duration between successive glottal pulses increases and glottal vibrations become irregular. Some pulses are separated by as much as 25 to 32 milliseconds (which, if periodic or continuous, would correspond to as low as 40 to 50 hertz). One series of laryngealized glottal pulses in the syllable pa has been measured as having successive pulses separated by 11,13, 15, 18, 18, 24, 32, 25, 27 milliseconds. Spectrographic analysis shows that during laryngealization energy is concentrated about the first and second formants with no lower harmonics visible on the typical spectrogram. And these formants are not characterized by (the typical) clearly spaced harmonics; instead the formants appear quite fuzzy, in that there are many very closely spaced harmonics. In words with vowel glides, semivowels, or final masals, there is generally a point toward the end of the vowel duration at which glottal

pulse timing starts to spread out, marking the beginning of the laryngealized phase. Such laryngealization is then carried through even the final nasal consonants.

spectrographic analysis of Sedang vowels does not show any register differences of vocalic openness (i.e. tongue height). Consonant voicing, pitch, and vowel harmony, though frequently related to register in other languages, do not pertain to the Sedang situation. Register in Sedang is described only by the feature of voice quality as given above.

All the vowels and vowel glides occur (structurally) in both register sets although open syllable os, 10 have not been observed. The final consonants -p, -t, -k, -h, -ih structurally do not occur with the tense register. Of the other final consonants (as will be noted below) there are some vowel plus final-consonant clusters, though presumed structurally possible, which have not been observed with both registers. There is no observable relation or restriction between register and either the presyllable or the consonants of the initial consonant position.

The lax register occurs more frequently than the tense register in both the dictionary count (69%, 979/1409) and the text count (60%, 18,576/27,437). That both these percentages are equivalent indicates that function words are not predominantly of one register.

There is Sedang folk-linguistic terminology which dis-

tinguishes the two registers: prong (TR) and prong (LR) (Smith, 1975a).

Register contrastive pairs of words:

ka 'to eat'; ka 'fish'

kan 'big'; kan 'chief'

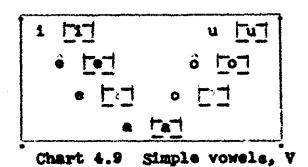
bau 'to wash face'; bau 'field rice'

póla 'chaff'; póla 'elephant tusk; between'

ma 'eye'; ma 'we two (excl.)'

xôi 'to err'; xôi 'to sacrifice'

Simple vowels. Sedang has seven simple (or unglided) vowels (V) as shown in Chart 4.9. The simple vowels occur in both open and closed syllables and with both registers. Simple vowels are more common than glided vowels in both the dictionary count (81%, 1135/1409) and the text count (87%, 23,819/27,437). The frequency of the simple vowels is given in Chart 4.10. The vowel a, typical of most Southeast Asian languages, has the highest count in both cases.



	Dict.	count	Text o	ount
	No.	%	No.	*
2	348	31	9419	40
. 0	194	17	2711	11
ô	161	14	3559	15
•	133	12	3316	14
ê	111	10	2077	9
1	96	8	1731	7
u	92	8	1006	4
Total	1135	100	23819	100

Chart 4.10 Dictionary and text frequencies of simple (unglided) vowels

```
chi 'clean; kind of tree'
```

chê 'tea'

ché 'cloth'

cha 'tree sap; great-great-grandchild'

ti 'up high'

tê 'to sell; to go down; only'

ta 'to place within; spear trap'

tu 'hood, umbrella; anthill'

to 'hot'

to 'monkey; to get up onto; general classifier; bean'

ting 'to sacrifice; tail'

teng 'sorcery'

táng 'to look for; chair'

tong 'bent tree in spear trap'

tong 'pond; to please; to save'

<u>Vowel glides</u>. The vowel glides (VG) include four central glides (Va), three back glides ($V\hat{o}$), and two front glides (Ve) as shown in Chart 4.11.

Central glides (Va)	Back glides (Vo)	Front glides (Ve)
ia [10] ua [10]	10 [10] uô [uo]	10 []']
ev [e₃] ov [o₃]	•ô [•o]	ô• <u>r</u> o٤]

Chart 4.11 Yowel glides, VG

Central glides have an end point approximating a schea; back glides an [o]; and front glides an [i] or [c].

Central glides occur in open syllables and before all final consonants except -1, -u, and -ih (on final consonants see following subsection). (on has not been observed in an open syllable; other incomplete patterns are noted below.)

Back glides occur in open syllables and before velars -ng and -k, and before -h. Front glides occur only in open syllables. (Orthographically the circumflex in ea, oa, etc.

is redundant and thus hereafter unwritten; ea, oa, etc.)

charts 4.12 and 4.13 show the dictionary and text counts of vowel glide frequency. Central glides are most common, front glides least common. The text frequency of is surpasses the other central glides because of the influence of function words him 'already' (rank 9, 378 times), pian 'we' (18, 284; elsewhere in this dissertation spelled pin), and kin 'ghost' (23, 251), chiang 'become' (36, 145). No other central glide occurs before tea 'water' (47, 118). The text frequency of oe is greater than ie because of the combined effect of the phrase poe ropoe 'to cut sompherry', the theme of one of the folktales included in the data base for the count.

kes 'trap; to make design'

kia 'spirit'

koa 'pipe'

kus 'to hold; to hug; roof'

	Dict.	count	Text (count
	No.	\$	No.	%
٧æ	227	83	3128	87
٧ô	30	11	369	10
Ye	17		121	3
Total	274	100	3618	100

.Chart 4.12 Dictionary and text frequencies of vowel glide types

	Diet.	count	Text	count
	No.	%	No.	%
Central glides				
ea	71	31	610	20
ua.	62	27	519	17
ia	5 1	27	1598	51
O&	33	15	401	15
Total	227	100	3128	101
Back glides				
●0	17	57	305	83
uô	11	37	49	13
10	2	7	15	4
Total	30	101	369	100
Front glides				
ie	12	71	51	42
ôe	5	29	70	58
Total	17	100	121	100

Chart 4.13 Dictionary and text frequencies of vowel glides

teo 'to carry'

tio 'to follow!

tuo 'to bend over'

kie 'to strip bamboo'

kôe 'to fold'

<u>Pinal consonants</u>. The final consonants (C_f) are shown in Chart 4.14, with minor final consonants enclosed within parentheses. The dissimilarity of the final consonant inventory from the initial single consonant inventory (as well as from the presyllable consonant inventory) recommends the establishment of a separate consonantal system for each position.

	Bilabial	Alveolar	Palatal	Yelar	Unarticulated
Stops	-p	-t	-k	-k	
Massis	-=	-n		-ng	
Vocoids	-u [w]	(-1 -r)	-1 [y]		
Aspirates			(-1h) <u></u> yh	<u> </u>	-h
Glottals			(-1) []	7	(-)

Chart 4.14 Final consonants, C,

Final glottal stop (-_), -i, -l, and -r are very infrequent, though entering the language through loans from neighboring languages. -ih and -i are complex unit phonemes [ih, i*] (Smith 1968.56-57). Only final nasal and vocoid consonants occur in tense register clusters whereas all occur in lax register clusters; all consonants except nasals occur with nasalized vowels (see below). Chart 4.15 shows the dictionary and text frequencies of final consonants and their absence in open syllables (#). Nore than one word in three is an open syllable word (i.e. ends with either a vowel or vowel glide) and in text this increases to every other word. Final nasals,

	Dict.	count	Text co	unt
	No.	冤	No.	%
#	504	36	13760	50
-ng	224	16	3179	12
-1	164	12	4384	16
-h	108	8	2254	8
-u	103	7	836	3
-n	72	5	1190	4
-10	68	5	840	3
-k	62	4	428	2
-t	40	3	330	1
-p	30	2	80	0
Minor cons.				
_~	15	ı	94	0
-1h	10	ı	36	0
-1~-r	6	0	12	0
-ĭ	3	0	14	0
Total	1409	100	27437	99

Chart 4.15 Dictionary and text frequencies of final consonants including open syllables (#)

-i, -u, and (unaccountably) -h are the most frequent final consonants inasmuch as they have not undergone drastic reduction like the voiceless stops, aspirates, glottals, -1, and -r (6.1).

```
'(comparative); to place within; spear trap'
tap 'to bury; to exercise'
kat 'cabbage: to tie'
tak 'bran'
tam 'to wallow; to sleep in field; to fall down
     (of branches)
tan 'to scoup up (fish)'
tang 'to be erect; if; to feel'
tau 'pig's nest outside village'
tai 'to be completed; entire'
tah 'to take off (clothes)'
tal ~ tar 's (flat) board'
tui 'to rake field'
tuih 'to sacrifice'
kómai 'machine' (final -\underline{1})
tóxi 'sea' (final -)
```

Nasalization. Main syllable vowele and glided vowels may have contrastive masalization (N) in certain restrictive preceding and following environments. (Orthographically masalization is marked with a grave); masolaryngealization with a tilde ...)

The preceding environment for nasalization of the vowel must be glottalization (either glottal stop or \underline{h}), and/or \underline{r} or \underline{v} in the main syllable. Most presyllables (4.3) seem to permit nasalization of the main syllable vowel if the above criterion is present. Chart 4.16 illustrates these restrictions.

C _i :	Glot.	þ	r	¹r	hr	٧	14	μA
c _p v _p :					-			
ø	àu	ha		're	hrài		'Yê	hvãi
hó-	hơ-cô	hóhia	hóre	hó' rak		·	hố 'vã	
kó-	kó-a	kóhổi		kó rau	•	kóvě		
mó-	mó-àu	móhã		mó'riù	móhrê			
pó-	pó-ùk	póhá			•			
ró-	ró-ah	róhe				rovei		
tó-	tó-Ìt				tóhra			
1-	·					iva		
u-	u-ùt							

Chart 4.16 Examples of preceding environments permitting vowel masalisation (note: the columns r and hy are insignificant if there is no phonemic difference between hor- and hr- and between hov- and hy- (cf. 4.3))

The following environment for masalisation of the vowel must be an open syllable (β) , -h, voiceless stop (although p has not been so observed), and the vocoids -i and -u. (Neither has -ih been observed masalized although it consists

of two masalization-permitting environments -i and -h. As noted above, the final stops and -h do not occur in tense register clusters, so do not permit masolaryngealization either. Chart 4.17 illustrates these restrictions.

Ces	-9	-h	-t	-k	-1	-H
Nasalised Vowels	ì	èh	móhót	hak	hó-u1	mohau
Nasolaryngealized vowels	þe	x	*	×	hãi.	kó-ou

Chart 4.17 Examples of following environment permitting vowel masalization (x indicates structural restriction for laryngealization)

Nasalized vowels are uncommon, occurring in only 5% (42/1409) of the words of the dictionary count (my full dictionary listing includes about 94 masslized words) and in 2% (451/27437) of the text count. Despite the general infrequent occurrence of masslized vowels within the stated masslization-permitting environments, massl vowels are on a par with oral vowels: in the limited environment where 94 masslized vowels occur, there also occurs only 124 non-masslized vowels; or, in such environments 45% of the words are masslized. Though masslized words are in the minority in such environments one suspects that masslization is normal and oral vowels are marked. For example, Vietnamese hoc 'to study' has no massl aspect, yet as a recent borrowing into Sedang, occurs masslized as hok.

Chart 4.18 cites the dictionary and text frequencies of the four-way register and nasal contrast.

	(Nasal vowels						
•	Diet.		Text		Diet.		Text	
	Mo.	*	No.	%	No.	%	No.	%
Clear vowels	947	67	18363	67	32	2	213	1
Laryngealized vowels	420	30	8623	51	10	1	238	1

Chart 4.18 Dictionary (1409 words) and text (27,437 words) frequencies of vowels with register and/or nasal modification

Masal and register contrastive sets:

ha 'crowded' LR - oral
ha 'open mouth' TR - oral
ha 'Dak Ha village name' LR - nasal
ha 'also' TR - nasal

ia 'few'

ia

ia 'to respect'

ia 'section of field; to dry rice; a river name'

in 'easy'

Summary of vowel plus final-consonant clusters. The principal structural cooccurrence features of the vowel plus final-consonant clusters are:

(1) The register contrast pertains only to the open syllables

and those with final nasals, -i, or -u.

- (2) The nasal-oral contrast pertains to all syllables except those with final nasal consonant.
- (3) The seven simple vowels occur in open syllables and with each final consonant, though in varying patterns. All seven have been observed only with -ng, -k, and -h. Only five or six vowels have been observed with -m, -n, -p, and -t (sl-though structurally it seems as though these holes are coincidental). Structurally it appears that -1 is restricted to just five clusters ei [ei], ai, ui, ôi, and oi, and that -u is restricted to just three clusters iu, au, ou. The other final consonants, -, -i, -ih, -l, and -r, are minor consonants with too infrequent occurrence to state the structural relations which they may develop except that the complex finals -i and -ih will not extend beyond the patterns of their component parts -i, -, or -h.
- (4) Central glides occur only in open syllables and with final nasals, stops, and -h.
- (5) Back glides occur only in open syllables and with final velars -ng and -k and with -h.
- (6) Front glides occur only in open syllables. (They have not been observed masalized.)

Chart 4.19 shows all vowel plus final-consonant clusters observed to date. The three parts of the chart group those clusters with (a) both register and masal contrasts, (b) only register contrasts, and (c) only masal contrasts.

	Open a	yl., 9	-	1	4	u
	Orel	Nasal	Oral	Nasal	Oral	Nasal
	1 u	1 u	u1	ù1	iu	iù
	ê ô	À.	ei ôi	è1 ô1	Ou	
Clear			ai oi	ài	a tu	àu
	in un	ia ùa				
vowels	ea 0 a	es de				
	1ô uô					
	●ô					
	ie ĉe					
	íú	ĩ			1ú	
	÷ ÷	≈	éi ối	ő1	ου	, ou
Laryn.	éáó	~ ~ ● a	ái ói	ãi	áu	
	iá úa	ia üa				
Aomeje	ÓE.					
	wô			-		
	e ô	•ô				
	ié ôe			1		

Chart 4.19 Yowel plus final-consonant clusters: part (a) Clusters with both register and masal contrasts (each sector of the chart has four vertically-adjacent boxes enclosing, from top to bottom, single vowels, central glides, back glides, and front glides)

		-12			-n			-ng	
	im		um	in		un	ing		ung
		-	ôm			on .	êng		ông
Clear	•m		022	en	an	on	eng	ang	ong
	iam		WAR.	ian		uan	iang		uang
vowels							eang		oang
									uông
		,							<u>,, , , , , , , , , , , , , , , , , , ,</u>
			úm	ín	<u> </u>	ún	íng	,	úng
paringularity desired			âm						
Laryn.	ém	ám	óm	én	án	ón	éng	áng	óng
ere	1ám		úsm	ián		úan	iáng	· · · · · · · · · · · · · · · · · · ·	vang
vowels	éan			éan			éeng		óang
		· · · · · · · · ·		<u> </u>	·				
									
				<u> </u>	·		<u> </u>		

Chart 4.19 Yowel plus finel-consonant clusters: part (b) Clusters with only register contrasts

- p		•	t	-	k ·	
Orel Masal		Oral Nasal		Oral	Nasal	
ip up op op		it et at ot	it ut at ot	êk êk	ik uk ek ok ek ak ok	
iap wap		ist ust	₹ .	iak wak	eak	
				lok uôk	1Ôk	
						

-h		•		Others		
Oral	Nasal	Oral	Nasal			
ih uh êh ôh eh sh oh	ih ùh èh àh òb	1 1 0 0 0		-ih: ôih, uih -i: ai, oi -l: el		
iah uah eah oah				-r: ar		
uôh						

Chart 4.19 Youel plus final-consonant clusters: part (c) Clusters with only nasal contrasts

Though Chart 4.19 includes 196 different observed clusters, at least 312 different combinations seem structurally possible--many of which, with additional data, will undoubtedly be found. The text material used for the dictionary and text frequency counts included only 166 different vowel plus final-consonant clusters among its 1409 different words. Only twenty-two of these clusters account for 45% of the words and 69% of the text. Chart 4.20 lists these 22 clusters-i.e. all clusters which have either a dictionary or text count of at least 2%.

4.5 Presyllables

Presyllables (C_pV_p) are the unstressed-consonant-plus-vowel syllables which precede the stressed main syllables described above. There are five types of presyllables: basic presyllables account for 96% (4588/4768) of all presyllables; basic consonantal reduplicative presyllables, 3%; the other three types only 1%. Partial morpheme reduplication (12.6) accounts for some, but not all, reduplicative presyllables.

Basic presyllables. Basic presyllables are restricted to a limited set of basic presyllable consonants followed by a schwa vowel (written -o-) except that with an initial (unwritten) glottal the vowel may be either schwa (here written a- (o never occurs without a preceding consonant)) or i-. The basic presyllables are shown in Chart 4.21. The presyl-

Year	Dict.	count	Text (ount
	No.	×	No.	96
-a	72	5	2290	8
-0	69	5	1416	5
-ôu	38	3	454	2
-01	37	3	715	3
-á	35	2	2456	9
-81	35	2	1912	7
-u	30	2	526	2
-0	28	2	373	1
-ô	26	2	423	2
-ang	25	2	377	1
-1	24	2	1162	4
-ô1	23	2	509	2
-ang	23	2	297	1
-éeng	22	2	229	1
-oh	22	2	206	1
-ah	20	1	528	2
-eh	17	1	561	2
-ôh	16	1	688	3
-•	13	1	1833	7
-ô1	. 11	1	441	2
-iang	\$	0	491	2
-0 -0	3	O	647	8
144 others	815	58	8883	32
Total	1409	101	27437	101

Chart 4.20 Distionary and text frequencies of 22 most common vowel plus final-consonant clusters (including open syllables)

	Bilabial	Alveolar	Palatal	Yelar	Glottal
Stop	pó-	tó-		kó-	e-, i-
Nasal	mó~				
Orel		16-, ro-	•		h6-
Minor	bó-	xó-	J6 -		

Chart 4.21 Basic presyllables showing basic presyllable consonant set, C, (the consonant symbols have the same phonetic value as given for initial consonants (4.1))

lables bo-, xo-, and jo- occur so infrequently that they are considered minor presyllables.

Presyllables pó-, tó-, kó-, and mó- are sometimes, but not usually, affixes; ló- is usually an affix (12.1-5).

Presyllables ho- and ro- are followed by a non-phonemic [s] before voiceless stops; thus: rota [r.sta].

There are various cooccurrence patterns and restrictions between the presyllables and following consonants or consonant clusters. Mó- only rarely precedes a voiceless consonant other than h and glottal, and never precedes homorganic b or v. Complementing this presyllable pó- only rarely precedes a voiced stop (sometimes pó- and mó- are permitted alternate presyllables before voiced stops of some words) and never precedes homorganic m or v. Presyllable kó- does not precede homorganic g. By definition no basic presyllable precedes a consonant identical to the presyllable consonant (such would

be a basic consonantal reduplicative presyllable, for which see below). Aspirated consonant clusters (ph, th, and kh) and the complex consonant clusters rarely occur following a presyllable. Initials y and hy, recently introduced into Sedang, have not yet been observed in bisyllabic words (except Bahnar loan bóyang 'God'). Chart 4.22 lists all observed basic presyllables with the consonants or consonant clusters which they precede. The minor presyllables are not included in the chart but have been observed only as follows: bó--, bón-, bón-, bór-, bóy-; jól-, jór-, jóx-; xó'd-, xól-, xóm-, xór-. Though Chart 4.22 includes 219 different observed clusters, at least 444 different combinations seem structurally possible.

The presyllable vowel discriminates between bisyllable words and monosyllable words with an initial consonant cluster in the following pairs: ph- and póh- (the latter, but not the former, permits vowel masalization); pl- and pól-; pr- and pór-; th- and tóh-; tl- and tól-; tr- and tór-; kh- and kóh- (the latter, but not the former, permits vowel masalization); kl- and kól-; kr- and kór-; mr- and mór-; hm- and hóm-; hm- and hóm-; and hng- and hóng-. The following contrasts are at best only tenuous: hv- and hóv-; hr- and hór- (both members of these two pairs permit masalization); hl- and hól-. There is no bisyllable word with presyllable and initial consonant corresponding to the consonant clusters ml and hy.

	26-	pó-	tó-	kó-	hó-	ró-	1ó-	A-	1-
P	x	REDUP	tóp-	kóp-	hóp-	róp-	lóp-	ap-	ip-
ph	x	*		kóph-					
p1	x	#	topl-	kópl-		rópl-		apl-	ipl-
pr	x	*	tópr-						ipr-
ŧ	mot-	pót-	REDUP	kót-		rót-	lót-		1t-
th	x			kóth-	hóth-	róth-		ath-	
t1	x		₩						
tr	x	pótr-	*	kótr-	hótr-	rótr-	lótr-		
ch	x	póch-	tóch-	kóch-		róch-	lóch-	ach-	
k	x	pók-	tók-	REDUP	hók-	rók-	lók-		
kh	x	pókh-	tókh-	Ħ			lókh-		
kl	x	pókl-	tókl-	Ħ	hókl-		lókl-		ikl-
kr	x	pókr-	tókr-	#	hókr-	rókr-	lókr-	akr-	ikr-
Þ	x	x	tób-	kób-	hób-	rób-			
91	1	póbl-		kóbl-	hóbl-	róbl-			
pr	x	x	tóbr-	kóbr-	hóbr-				
4,	×	pó¹b-	tó'b-	kó¹b-		ró'b-			
'br	×	x							
161	x	*		kó bl	-				
đ	mó4-	pó4-	tód-	kód-	hód-	ród-			
dr	modr-	pódr-	tódr-	kódr-	hódr-				idr-
, q	mo'd-	x	to'd-	kó d-		róid-			
'dr		x	•						

. 1	mó-	pó-	tó-	kó-	hó-	ró-	1ó-	a-	1-
3	mój-	pój-	tój-	kój-	hój-	rój-			
8	móg-	x	tóg-	x	hóg-	róg-	lóg-		
gl		×		×					
gr	mógr-	x		x					igr-
gr		x		x					
	REDUP	x	tóm-	kóm-	hóm-	ró n-	lóm-	a.m	im-
ml	Ħ	x	tóml-						
mr	•	x	tómr-	kómr-	hómr-				imr-
hm	*	x	tóhn-		REDUP	róhm-	lóhm-		
'm	M.	x	tó'm		hó¹m-	ró¹=-			
'mr	#	x							
n	món-	pón-	tón-	kón-	hón-	rón-			in-
bn	móhn-	póhn-	tóhn-	kóhn-	REDUP				
'n	mó¹n-	pó'n-		kó n-	hó'n-	ró'n-	ló'n-	a'n-	i'n-
nh	mónh-		tónh-	kónh-	hónh-	rónh-		amh-	
hnh		póhnh-	•	kóhnh	-REDUP			ahnh-	•
'nh	mó ¹ nh-	-pó¹nh-	-tó'nh	•			ló'nh	-	
ng	móng-	póng-	tóng-	kóng-	hóng-	róng-	lóng-	ang-	ing-
(ngr)			tóngr	-	•				
hng					REDUP				
ing			tó'ng						
'ngr									
٧	x	x	tóv-	kóv-	hóv-	LOA-			iv-
hv	X	x			REDUP				
14	x	x		kó v-	hó'v-				

	26 -	pó-	tó-	kó-	hó-	ró-	ló-	8-	1-
1		pól-	tól-	kól-	hól-	ról-	REDUP	al-	11-
hl		póhl-	tóhl-	kóhl-	REDUP				
וי		pó+1-	tó'l-	kó 1-	hó!1-		*		
r	mór-	pór-	tór-	kór-	hór-	REDUP			ir-
hr	nóhr-	póhr-	tóhr-		REDUP	10			
'r	mó¹r-	pó'r-	tó'r-	kó¹r-	hó'r-	75			
y	x	x	×	×	×	x	x	x	x
hy	x	x	x	x	×	x	x	x	x
x		póx-	tóx-	kóx-		róx-			
		pós-	tós-			rós-		25-	
h	móh-	póh-	tóh-	kóh-	REDUP	róh-	lóh-		ih-
-	20 0	pó	tó	kó	hó	ró	16	REDUP	REDUP

Chart 4.22 All observed basic presyllable plus initial consonant or consonant cluster combinations (parentheses about initial consonant cluster indicates it has not been observed apart from a presyllable; REDUP indicates reduplicative pattern for which see following sections; x indicates strong structural pressure against its occurrence)

Chart 4.25 shows the dictionary and text frequencies of all presyllables.

	Diet.	count	Text	count
	No.	%	No.	я
Basic presyl.				e de la companya de l
kó-	455	25	680	28
tó-	371	19	508	21
hó-	267	13	258	11
ró-	273	14	300	13
pó-	221	11	253	11
mó-	134	. 7	262	11
1ó-	53	3	25	1
1-	41	2	52	2
a-	32	2	16	1
Minor presyl.				
bó-	9	1	7	0
xó-	19	1	1	0
Jó-	3	0	0	0
Redup.				
19 type:	36	2	37	1
Total	1914	98	2399	100

Chart 4.23 Dictionary and text frequencies of presyllables

Basic consonantal reduplicative presyllables. In basic consonantal reduplicative presyllables, the presyllable has a basic presyllable consonant (cited above) but precedes an initial consonant or consonant cluster with an identical consonant. The presyllable vowel may be either schwa, -1-, or -u-, as shown in Chart 4.24. There does not appear to be any factor which conditions the presyllable vowel in these cases, so they are presumed contrastive despite the otherwise non-contrastive character of the presyllable vowel in basic presyllables. If the main syllable vowel is i or u and corresponds to the presyllable vowel, the basic consonantal reduplicative presyllable is indistinguishable from the basic complete reduplicative presyllable described below (cf. kiki, hihia, i-iu).

Basic complete reduplicative presyllable. In basic complete reduplicative presyllables, the presyllable has a basic presyllable commonant (cited above) preceding an initial commonant or commonant cluster with an identical commonant and a presyllable vowel duplicative of the main syllable vowel (though unglided and with neither register nor masal contrast). Cf. the following:

	hêhê
ô-ôh	lalán
pepe	lelóm
toton	momot

-ó-	-1-	-u-
MÓM-	mim	Min-
póp-		pup-
		pupl-
		pupr-
tót-	t1t-	tut-
	tith-	
tótr-		
kók-	kik-	kuk-
		iculch-
kókl-	kikl-	kukl –
		kukr-
	hih-	huh-
rór-	rir-	rur-
lól-	111-	lul-
lóhl-		luhl-
		lu'l-
	i (i-ia)	น (น-นh)
	xix-	XUX-

Chart 4.24 Basic consonantal reduplicative presyllables

Extended consonantal reduplicative presyllable. In extended consonantal reduplicative presyllables, the presyllable has a presyllable consonant or consonant cluster other than a basic presyllable consonant, duplicative of the main syllable initial consonant or consonant cluster, and a presyllable vowel -i- or -u-. If the main syllable vowel is i or u, and corresponds to the presyllable vowel, the extended consonantal reduplicative presyllable is indistinguishable from the extended complete reduplicative presyllable (cf. chuchua, numum).

-1- -u-

'bi'boi

chichôu, chichu chuchi, chuchiu, chuchiu

dudat

'd1'do, 'd1'dot

krikrôu krukreô

nino nunit

hnuhnai.

'ni'no

ahiahon nhunhiat

pripro

hribroh

tritrou

Extended complete reduplicative presyllable. In extended complete reduplicative presyllables, the presyllable has a

presyllable consonant or consonant cluster other than a basic presyllable consonant, duplicative of the main syllable initial consonant or consonant cluster, and a presyllable vowel duplicative of the main syllable vowel.

dradrai, dradreng 'mo'mo, 'mo'mo ngongó

prôprông

The above five types of presyllables with following environment when relevant may be summarized as follows and as in Chart 4.25.

CpVp* ...:

(1) Cpó... Basic presyl

(2) $C_p - 6/1/u - (C_m)C_p(C_m) \dots$ Basic cons redup presyl

(3) CpVCpV... Basic comp redup presyl

(4) $(C_m)C_1(C_m)-1/u-(C_m)C_1(C_m)...$ Ext cons redup presyl

(5) $(C_m)C_1(C_m)V(C_m)C_1(C_m)V...$ Ext comp redup presyl

Not included within the presyllable structures described above are two words with masslixation of the presyllable vowel:

u-ut 'small red bird'

'ru'roh duplicative form of 'roh 'to excise,

extract'

Also not included are chokhong 'shoes' (borrowed from Bahnar) and ulap 's village name'.

Presyllable consonantal reduplicativity:	consonantal	Won-reduplicative consonant	Reduplicat con	Reduplicative main ayllable consonant	1.
Presyllable vowel:	VOWel:	•	,0	-1-, -u-	Duplicative main syllable vowel
Presyllable	Basic presyllable consonant set Cp	1. Basic presyllable (96%)	2. Basic consonantal reduplicative presylable (3%) $c_{\rm p}$ -o/1/u-	onsomental cative ble u-	5. Basic complete reduplicative presyllable C _D V
consonants:	All other consonants and consonant clusters (C_B)C_1(C_B)	*		<pre>4. Extended consonantal reduplicative presyllable (Cm)C_1(Cm)-1/</pre>	consonantal complete consolidative presyllable presyllable presyllable (Cm)C1(Cm)-1/u- (Cm)C1(Cm)V

Presyllable types (arrows indicate partial overlap of definition with main syllable 1 and u vowels) Chart 4.25

4.4 Phonological word reduplication

Prior to this point, this chapter has described the various features of mono- and bisyllabic phonological words. It should be noted that almost all lexical words consist of a single phonological word. There are a few lexemes, however, which consist of more than a single phonological word, but may be two or three mono- or bisyllabic phonological words with duplication of one or more phonological parts. Onomatopoeia (12.10) uses extensive phonological word reduplication.

Monosyllabic phonological word reduplication:

Complete word reduplication:

'blut 'blut 'little by little'

Consonant-vowel reduplication:

bang bal 'kind of catfish'

dang dak 'to climb up steep mountain'

Initial and final consonant reduplication;

'but 'bat 'scattered all over the place'

kung king kong 'elbow'

Initial consonant reduplication:

rê róng 'a fearful cry'

blu blep 'to rush in'

bling blea 'an "x" mark'

chek chang 'to lie on one's side'

kung keo 'knee tendon'

Bisyllabic phonological word reduplication:

Presyllable and initial consonant reduplication:

kó'blôu kó'bla 'very crowded'

kó'nôk kó'nak '(of wet flesh) to be white and

puffy'

4.5 Alphabetization

Alphabetization of Sedang words in this dissertation as well as in other publications (Smith, 1967a; (primer series)) is based upon the following principles:

- (1) Where Sedang phonology and orthography parallel Vietnamese, follow the Vietnamese alphabetization system used by Nguyễn-Dình-Hòa in Hoa's Vietnamese-English dictionary which is based primarily on the usual order of the Roman alphabet as in English. This implies the following:
- (e) Digraphs and consonant clusters are alphabetized as units, not inserted within single letter sections; of. ch, kh, ng, nh, ph, th, tr.
- (b) Vowel letters with added vowel discritics are alphabetized as units after the vowel without the discritic; cf. Vietnamese a, \tilde{a} , \hat{a} ; e, \hat{e} ; o, \hat{o} , \hat{o} ; u, \hat{u} ; but Sedang e, \hat{e} ; o, \hat{o} .
- (c) In vowel glides each letter is considered a separate entity.
- (2) Where Sedang phonology and orthography differs yet parallels Vietnamese, follow the Vietnamese established pattern.

- (a) Sedang has consonant clusters not found in Vietnamese, but these are alphabetized as units (cf. Vietnamese tr); thus bl, br, 'b, 'bl, 'br are alphabetized apart from b; ml, mr, hm, 'm are alphabetized apart from m.
- (b) Sedang marks register and nasalization as Vietnamese marks tone. Vietnamese tone discritics are alphabetized as though the tone discritic was inserted immediately following the vowel and before any final consonant, if present. The alphabetic order of Sedang discritics thus is: __(laryngealization), __(nasalization), __(nasolaryngealization).
- (c) In Sedang orthography represents final glottal stop whereas in Vietnamese it represents a short vowel. In Sedang alphabetization it follows the above discritics and has priority over any following letter (in another word).

 5. Where Sedang and Vietnamese phonology, and thus orthography, differ, Sedang practice must determine its own conventions.
- (a) Sedang has a phoneme and letter not found in Vietnamese which nevertheless is alphabetized in the usual Roman manner; cf. j.
- (b) Sedang has bisyllabic words unlike Vietnamese. Bisyllabic words are alphabetized as a group immediately following monosyllabic words beginning with the same letter.
- (c) Sedang voiceless consonants, orthographically consonants preceded by an h, are considered digraphs (or trigraphs) and are alphabetized immediately following the con-

sonant (or consonant's presyllable) so modified, rather than within the h section.

- (d) Sedang preglottalized consonants, orthographically consonants preceded by an apostrophe __, are considered digraphs (or trigraphs) and are alphabetized immediately following the consonant (and its presyllable and other consonant clusters) so modified. Voiceless consonants are alphabetized before preglottalized consonants.
- (e) In vowel glides the circumflex in ea, oa and eo is redundant; thus the circumflex is omitted (ea, oa, eo), yet the vowel letter is alphabetized with all other similar circumflexed vowels to retain similar vowel quality within the section.

The order of sections within a Sedang dictionary or the Sedang alphabetic order follows. This is a practical rather than theoretical alphabet in that other sections may be added as consonant clusters or presyllables not now included may occur. (- indicates bisyllabic word; bó-, etc. represents any bisyllabic word beginning with b regardless of presyllable vowel)

', ', ', a-, b, bó-, bl, br, 'b, 'bó-, 'bl, 'br, ch, ehó-, d, dó-, dr, dró-, 'd, 'dó-, 'dr, e, ê, ê-, g, gl, gr, 'gr, h, hó-, 1, 1-, j, jó-, 'j, k, kó-, kh, kl, kr, kró-, kv (see chapter 5), l, ló-, hl, 'l, m, mó-, ml, mr, hm, 'm, 'mó-, 'mr, n, nó-, hn, hnó-, 'n, 'nó-, ng, ngó-, ngr, hng,

'ng, 'ngr, nh, nhơ-, hnh, 'nh, e, ô, ô-, p, pó-, ph, pl, pr, pró-, r, ró-, hr, hró-, 'r, 'ró-, s, t, tô-, th, tl, tr, tró-, u, u-, v, hv, 'v, x, xó-, y, hy.

CHAPTER 5 SYNCHRONIC PHONOLOGY: DIALECTAL VARIATIONS

The 3 dang themselves distinguish at least seventeen Sedang (ethno-)dialects (Smith, 1969b, 1973b). Their ethno-dialectal terminology focuses principally on the variations of the vowel plus final-consonant cluster ai, as it occurs in the Sedang word koklai 'what?' and ti lai 'how, why?'. Other differences are terminological or are variations of the initial consonant cluster. The seventeen ethnodialects (with vowel plus final-consonant cluster variations in parentheses) are:

l. rótéang kóle	(ě)
2. rótéang kólei	(01)
3. rótéang kikle	(e)
4. rótéang kóklai	(a1)
5. rótéang kókli yau	(1)
6. rótéang kókli	(1)
7. rótéang kia kiklei	(e1)
8. rótéang kia kli	(1)
9. rótéang ti lai	(a1)
10. rótéang ti lai	(ai)

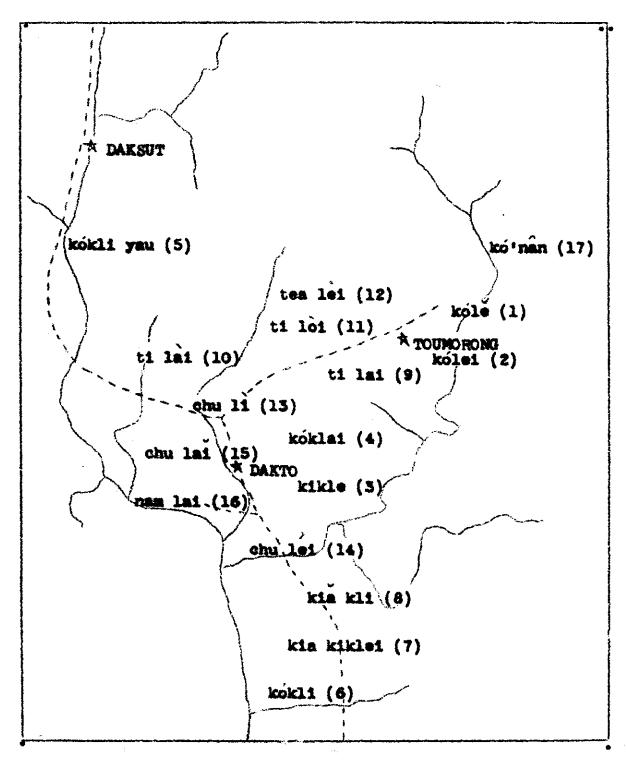
11.	róteang	ti	1ò1	(ò1)
77.	Locatifi	Ų.	707	/or

- 12. róteang tea lei (ei)
- 13. róteang chu li (1)
- 14. róteang chu lei (ei)
- 15. róteang chu lai (ai)
- 16. rótéang nam lai (ai)
- 17. róteang ko'nan (-)

(indicates a breathy vowel, a dipping contour like the Vietnamese hol tone, a short schwa vowel as in Vietnamese). Map 5.1 locates these ethnodialects in the Sedang area.

Though the ethnodialectal terminology focuses on the pronunciation of only one or two specific words in the various Sedang areas, the vowel plus final-consonant variations occur correspondingly in the Sedang areas in all words with final -ai (e.g. mai 'brother- or sister-in-law', plai 'fruit', tai 'entire', kai 'to be able', vai 'they', ko'nai 'behind', phai 'to be full', etc.). These vowel plus final-consonant cluster variations of the standard or central Sedang -ai include variations of vowel, final consonant, and register:

(1) Yowel variations. The main vowel in standard -ai is seen above to vary through the range 1, ê (in ei), e, a and o. Some of these vowels are diphthongized with -i. The general pattern--though not consistently true--is that -ai occurs throughout the central Sedang area, -i in the west and south, -ei in the southwest, and -e in a pocket east of DakTo. This highlights a principal feature of Sedang dis-



Map 5.1 Location of Sedang ethnodialects (numbers correspond to numbered list in text; stars indicate government district centers)

of the Vietnam Mon-Khmer languages--vowel instability.

Indeed Thomas (1964b.160-161) has summarized that one difficulty in Mon-Khmer comparative studies "is the complexity of the vowel shifting that has taken place in Mon-Khmer making it very difficult to establish regular patterns...Other comparativists have stated flatly that regular sound-laws simply do not exist in Mon-Khmer vowels..."

As was shown in chapter 4, vowels are an integral part of the vowel plus final-consonant cluster. In dialectal variations, vowels are also conditioned by this environment. For example, whereas open syllable a and a are stable throughout the sedang area, with a following consonant the vowel may vary in different ways. The varying a in -ai has already been noted. Note also: (a) -au (as in plau 'thigh', xau 'afraid', kau 'serpent-head fish', rópau 'thousand', etc.) has alternate forms -ôu in the southeast and -u in most border areas; (b) -ah (as in topah 'seven', xah 'play', pah 'smake', tah 'castrate', etc.) has alternant forms -oih in DakSut Sedang and -eh in a large southwestern area.

Similarly many other vowels in the vowel plus finalconsonant clusters shift in the Sedang area, each having its
own peculiar—and sometimes indistinct—geographical spread
and many thrusting their isoglosses through the heart of
central Sedang. Note, for example: (a) -ôh (as in môh
'nose', pôh 'rosst', kôh 'greet', etc.) has variants -oh in

the west and a few other central pockets and -uh in border areas; (b) -ou (as in ou 'drink', pou 'drunk; carry on back', tou 'breast', kopou 'buffalo', etc.) has variants -au in the west and -o in the southeast; (c) -ci (as in kochei 'sneeze', pei 'work', mei 'rain', xei 'horse', etc.) has variants -e in the west, -i in the east, and -ie in KonHreng Sedang.

And similarly the vowels in many, if not most, of the vowel plus final-consonant clusters have variant forms in some Sedang area differing from that of central Sedang as described in chapter 4. Also, a lax register cluster will vary in a different manner than the corresponding tense register cluster.

- (2) Final consonant variations. The cluster -ai is shown above to have among its variants a final glottal stop. A principal dialect feature of Sedang in areas to the west of Mational Highway #16 and in the border areas near Todrah and Remgao is retention of final consonants which central Sedang has lost (cf. phenological development of Sedang from Proto-Morth-Bahnaric, chapter 6). In the southern (Todrah?, cf. Gregerson and Smith, 1973) area there is a merging of voiceless stops with final glottal stop.
- (3) Register variations. The lax register cluster -a1 is shown above to have accompanying breathiness in the west and south as the Sedang area merges into the Rengae and Todrah language areas. This is a dialect characteristic of the lax register clusters in general. Whereas in central

Sedang the register contrast is manifested by normal vowels for the lax register, in the border areas, like the surrounding languages, it is manifested by breathy vowels; similarly whereas in central Sedang the tense register is manifested by laryngealized vowels, there are clear vowels in the border areas.

There are other dialect variations not suggested in the ethnodialectal terminology, including differences in the presyllable, initial consonants, and the denasolaryngealization phenomenon:

(4) Presyllable variations. Presyllables are generally unstable in Mon-Khmer languages with frequent (sometimes inexplicable) consonant changes or loss. The Sedang dialects also examplify such presyllable instability. Usually presyllable variation is not structural; rather each word with a presyllable is a law unto itself, having its own pattern of variants. Two systematic presyllable variations may be noted, however: (a) ro- with non-phonemic a before voiceless stops (as in rokai 'boar', rokong 'mouth', roteang 'Sedang', ropam 'field shed', etc.) has variants ho- or h- in the west, s- in Kotua Sedang (near Mang Buk), and unpredictable dropping of the non-phonemic s throughout the central and greater Sedang area; (b) presyllable metathesis occurs in at least two southwest central Sedang villages (Tea Jong, Tea Koxan), as in:

akpau for kopau 'blanket' akxiang for koxiang 'bone' ardá for ródá 'to stutter'
arhêng for róhêng 'to like'
astá for rótá 'handapan'
apxí for póxí 'trigger'
apxám for póxám 'wild chicken'

- (5) Initial consonant variations. The most notable initial consonant variation is that some x (i.e. those which are reflexes of PMB "y rather than PMB "s (see chapter 6), like xuan 'Vietnamese', xeang 'spirit', xau 'afraid', xon 'tall', etc.) of central sedang sometimes have a y variant in the northwest and south, and always in the more distant border areas.
- (6) Denasolaryngealization phenomenon. The process of denasolaryngealization is perhaps the most intriguing aspect of Sedang dialects because of its very stark change across the Sedang area and because it affects a wide range of vowel plus final-consonant clusters, including such frequent clusters as ang, eang, iang, etc. It is described in Smith (1973a.55):

"Words having a final masal consonant (m, m, or mg) and a clear tense register vowel in Proto-Morth-Bahmaric as well as in the present-day languages surrounding the Sedang language area have a laryngealized tense register vowel in Early Sedang. Though some portions of the Sedang language area continue to retain the laryngealized vowel and final masal, more recently there has developed a further progression wherein a strengthened laryngealization of the vowel has affected the final masal consonant to the point of cutting it off prematurly with a glottal stop, or sometimes entirely dropping the masal and replacing it with a final glottal stop. Laryngealization of the vowel, whether present or absent, then becomes irrelevant, inasmuch as final glottal stop does not elsewhere occur in these dialects....

Each phase of the denssolaryngealization process is still current today among Sedang dialects and neighboring languages. The process has been stated as a rule..., in which V represents any clear vowel, V any laryngealized vowel, N any final nasal n, m, or ng, (N) a weakly articulated nasal, and a raised dot a lengthened vowel:

VN of Area A becomes $\dot{V}N$ in Area B, which becomes $\dot{V}^*(N)$ and $\dot{V}(N)$ q in Area C, which becomes $\dot{V}(\beta-\delta-1/e)$ q and \dot{V} q in Area D. (The alternate forms for the first type of Area D correspond to the three masals ng, m, and n, respectively.)

Area A includes KonHreng Sedang as well as neighboring Rengao and Todrah; Area B includes DakSut Sedang as well as the western and southeastern Greater Sedang areas; Area C is southwestern central Sedang and Area D is central Sedang. This gives rise to such variant forms as:

		'Sedang'	'five'	'four'	'squash'
Area A		hodeang	potam	pun	pian
Area B		roteang	potám	pún	pián
Area C,	type 1	roté-a(ng) potá·(m)	pú·(n)	pí·a(n)
	type 2	rotea(ng)	q pota(m)q	pu(n)q	pia(n)q
Area D,	type 1	rotemq	potaôq	puiq	pieq
	type 2	rotemq	pótaq	puq	piq

Dialects differ in vocabulary as well as in pronunciation. Though the vocabulary of villages of central Sedang are 98-100% cognate with each other, the vocabulary of villages in border areas drops to 88-90% cognate with central Sedang. A few notable vocabulary differences are:

lám, brôk 'to go'
hme, pua 'cooked rice'
ngoh, nhong, da 'older brother'
kódê, hóně, pólot 'to kill'
ti déi, ngôi, hiô 'to have a good time'

Vocabulary differences of 10-12% in the border areas together with the many and sometimes major sound shifts, produces sufficient problems for intelligibility that such groups as Sedang-Rengao in the west about DakNot, and Todrah in the south near KonHreng (whom Rengao call "Sedang" and Sedang call "Rengao"), and the Kotua in the east near Mang Buk cannot be included within the Sedang language area.

More detail of Sedang dialects with accompanying maps is given in Smith (1967b). There is little or no information on the social concomitants of the dialects.

CHAPTER 6 DIACHRONIC PHONOLOGY: DEVELOPMENT FROM PROTO-NORTH-BANNARIC

6.0 Introduction

As was shown in chapter 3, Sedang has derived from Proto-North-Bahnaric (PNB) but has undergone considerably more sound change than its neighbors. Mergers have produced holes in the sound system which are now being filled as gedang reverts to a typical North Bahnaric sound system (6.1). The lexicon has also been influenced by borrowings from various contact languages (6.2). The PNB information is from Smith (1972), a study based on 571 cognate sets. A brief inspection of Proto-Bahnaric reconstructions by Phillips (1971) indicated essentially similar results and would not substantially affect this discussion.

6.1 Principal sound changes from Proto-North-Bahnaric
The principal sound changes from PNB will be discussed
by word position as in chapter 4.

Initial consonants and consonant clusters. PNB had the same inventory of twenty initial consonants as Sedang now has, as shown in Chart 4.1 (section 4.1) -- but the PNB and Sedang consonants do not have a one-for-one correspondence. Sedang

voiceless stops, masals, and orals (except \underline{y}) derive, in part, from the same type of consonants in PNB.

PNB	*pun	Sdg	puan 'four'
	*tap		tea 'slap'
	*chang		chang 'sword'
	*ican		kan 'big, tall'
	*un		uam 'to winnow'
	•mon		muan 'nephew, niece'
	*nung		nong 'goose'
	*nhìn		nhen 'clearly'
	*ngok		ngo 'mountain'
	*soq	•	xo 'get'
	*srok		so 'body louse'
	*hak		hea 'vomit'
	•wih		veh 'return'
	*lem		lem 'good'
	*rut		roe 'buy'

In addition, however, Sedang voiceless stops have derived from PNB voiced stops and preglottalized voiced stops.

PIE	*bong	Sdg	poang	'casket'
	*qbok		poa	'grandfather'
	*deng		ting	'little finger'
	*qdum		tuam	'ripe, red'
	*Jang		ohéan	g 'work'
	*gang		kang	'spirit pole'

Sedang nasals have also derived from PNB preglottalized nasals.

PNB *qme Sdg mei 'rain'

*qnaw neo 'new'

*qnhet nha 'grass'

*qngok ngos 'brain'

And Sedang x also derives from PNB *y and *qy.

PNB "yang Sdg xeang 'spirit'

*qyung xuong 'get up, stand'

Consonant clusters follow the same patterns: preglottalization was lost, voiced stops with *-1 and *-r became voice-less, voiceless consonant clusters were retained. The one exception to these generalization is that in bisyllabic words *dr was retained in Sedang though in monosyllabic words *dr merged with *tr.

PNB *qdring Sdg triang 'drinking straw'

*brel pre 'peanut'

*blew plau 'thigh'

*hmaq hmm 'acquaintance'

*kadri kódrai 'female'

*dreng tring 'yellow'

*truh trôh 'arrive'

Consequently three conspicuous holes developed in the Sedang initial consonant system: (1) there were no voiced stops, (2) there were no preglottalized consonants (areal phonology shows that 'j and 'g are rare anyway), and (5) there was no y. Chart 6.1 illustrates most of these initial consonant sound shifts. The high frequency of voiceless stops and dr

PNB	Sedang	Sedang pattern holes
ap, ab, alb	-> p	b, 'b
*t, *d, *1d	→ t	d, id
*ch, *j, *'j —	→ ch	J, ('J)
*k, *g, *xg	>- k	g, ('g)
*q	-> glottal stop	
*m, *1m	→ n	t pg.
*n, *'n	→ n	'n
*nh, *'nh	→ nh	'nh
*ng, *'ng	→ ng	ing
**	→ v	
*1	→ 1	
••	→ r	
*qy, *y, *s		y
*87	-> s	
*h	→ h	

Chart 6.1 Zroto-North-Bahnaric sources for Sedang initial single consonants (Sedang consonant clusters not included)

and the low frequency of voiced stops and y in Sedang now, as shown in chapter 4, attest to these mergers.

These three holes have since been filled. Some voiced stops can be traced to Proto-Hre-Sedang origin (cf. Sdg kóbo, Hr kabo 'who'; Sdg kódo, Hr kadoh 'hat'; Sdg gong, Hr

gong 'outside'; and Sdg bo, Hr qmok 'window'; Sdg bau, Hr qmaw 'field rice') but most have entered the language in words not yet tracable. Preglottalization is also returning to Sedang under the influence of areal phonology in loan words from several languages. y, apparently the most recent phoneme to enter the language, is tracable to loans from Bahnar (yang, boyang 'God', yoh '(sentence final particle)'), Vietnamese (ya 'da, exclamation'; yep 'sandal'), and French (moyo 'T-shirt').

Yowel plus final-consonant clusters. PNB, like most of the North Bahnaric languages today but unlike Sedang, had a two-register system in which tense register (TR) vowels were clear and "normal" and the lax register (LR) vowels breathy. The register system of Sedang has become relatively more tense in that the former clear TR vowels became laryngealized, and the former (relaxed) breathy LR vowels became clear. (Two intermediate register stages are described below.)

In addition to fourteen final consonants like the Sedang final consonant system shown in Chart 4.14 (section 4.2), PNB slsc had palatal finals *-ch and *-nh; the PNB finals *-l and *-r were distinctly separate phonemes. There is an exact correspondence between PNB final nasals of both registers and Sedang final nasals (except that for *-nh Sedang has -n after back vowels, -ng elsewhere).

LR:	PNB	plam		sdg	pliam	'leech'
		•khìn	khen	-	khen '	dare'
		•qdùnh			ton '1	iong time!
		•plinh			pleng	'sky'
		*kung			kông	eteps'
TRI		*maham			móhéam	'blood'
		•kapen		,	kóp én	'loineloth'
		*tanh			tên 'n	leave !
		*manenh			mónéng	'crossbow'
		*mang			mang	'night'

This is the extent of exact correspondence, however, between PNB and Sedang final consonants because of the influence of the register system and drestic consonant reduction. Sedang retained final voiceless stops in syllables of the LR (except that for *-ch Sedang has -k after front vowels, and -t after back vowels) but lost them (i.e. they merged with open syllables) in syllables of the TR which syllables then became LR open syllables (*-ch developed a Sedang -i diphthong after back vowels); that is, the clear TR PNB vowels followed by voiceless stops retained their clear quality but switched registers doing so to become clear LR Sedang vowels instead of retaining their register identification and becoming laryngealized.

LR: PNB *ap Sdg ap 'cook'
*mut mot 'enter'
*huch hut 'suck'

	*klech	klek 'deaf'
	*qnhìk	'nêk 'hoe'
TR:	*icatap	kota 'egg'
	*mat	ma 'eye'
	*hauch	hmui 'ant'
	*těch	tê 'sell'
	*qdak	tea 'water'

Syllables with final *-h developed similarly: Sedang retained *-h in LR syllables but lost it in TR syllables where the vowel remained clear (though sometimes became diphthongized with -i or -u) and switched to the LR.

LR: PNB *tapah Sdg tópah 'seven'

TR: *pah pa 'chop'

*peh pei 'pound rice'

*kachuh kóchôu 'spit'

The register contrast of PNB syllables with final glottal stop has been lost, with the former LR syllables generally developing diphthongs with -i or -u in Sedang, and the former TR syllables becoming simple vowels or -u diphthongs also of the LR in Sedang.

LR:	PNB *ta-èq	sdg tó-ò 'burp'
	*jìq	chai 'sick'
	#kamoq	kómôu 'dirty'
TR:	*kraq	kra 'old'
	*uq	ôu 'drink'

PNB diphthongs with *-w and *-y retain the register

contrast in Sedang. Some *-w developed the Sedang back glides and some *-y were lost; elsewise both diphthong types are retained in Sedang.

LR:	PNB	*pajaw	Ság	póchau	'shamen'
•		*phiw		phío	'happy'
•		*baday		pótê	'rest'
	٠	*pley		plai	'fruit'
TRI		*chaw		cháu	'grandchild'
		*palew		póleô	'bulbul'
		*khey		khe '	moon, month
		*Juy		chó1	'deer'

The PNB complex finals *-yq and *-yh developed in Sedang in comparable manner as their components. Both TR and LR *-yq have become Sedang LR diphthongs with -1 because of the effect of final glottal causing a merger of the two registers. LR *-yh has become Sedang LR -h except after *u where the *-yh is retained. TR *-yh has become a Sedang LR diphthong with -1 like, as noted above, TR syllables with *-h have lost the -h and switched registers.

LR:	PNB	*luyq	Sig	101	'believe'
		eqbayh		pah	' snako'
		*milyh		muih	'slash field'
TR:		*kuyh		kukui	back of head!
		*poyh		pui	'calf of leg'

The register contrast of PNB syllables with final *-1 and *-r has been retained in Sedang, though the final conson-

ants themselves have been lost completely except that for *-1 Sedang has a $-\underline{u}$ reflex after back vowels.

PNB open syllable vowels of the LR have developed -1 and -u diphthongs in Sedang whereas those of the TR have developed the diphthongs in some cases and remained simple vowels in others. The register contrast is retained throughout.

LR:	PNB	*bri	sag i	pr ei	'wild'	
		*kro	1	crou	, C13,	_
TR		*phe	1	phái	'husked	rice!
		*hla	1	hlá	'leaf'	
		*tamo	1	hmou hmou	'stone'	

Chart 6.2 illustrates the various register and final consonant shifts from PNB to Sedang.

The Sedang final consonant system thus developed a number of structural holes; no palatal stop or nasel; no stops or -h in TR syllables; no complex finals (-ih, -i), glottel stop, -l, or -r in either register. Four of these holes are now being filled by loan words but only in the LR; their frequencies of occurrence are the very lowest attesting to their

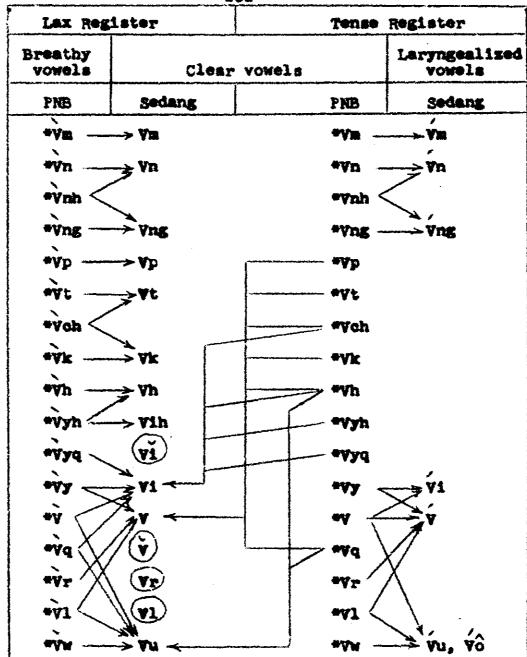


Chart 6.2 Sound changes of vowel plus finalconsonant cluster of both registers
from PNB to Sedang (adopted and expanded
from Gregerson and Smith (1975.162))
(circled items indicate holes in the
Sedang phonemic pattern after this
development from PNB but subsequently
being filled)

recent introduction: \underline{V} , \underline{VI} , \underline{Vr} , and \underline{VI} . These loans are mostly from neighboring languages which retained these finals from PNB.

The development of the Sedang register system from PNB requires two intermediate three-register (howbeit phonetic, not phonemic register) stages. (Three phonetic register contrasts within two register systems have been reported in Bru by Miller (in personal discussion) and Todrah (Gregerson and Smith, 1973)).

"This is necessitated by the observation that (1) if S(edang) had lost the tense register stops before the tense register open syllable vowel became laryngealized, then the vowels before those lost stops would have become laryngealized in S-but they are clear. Likewise (2) if the lax register stops had become clear before the tense register stops were lost, them all stops would have been lost-but the lax register stops have been retained. Therefore at an intermediate stage there necessarily had to be (1) open-syllable laryngealized vowels, (2) clear vowels with stops, and (5) breathy vowels with stops." (Smith (1972.16))

Specific vowel correspondences between PMB and Sedang are difficult to state apart from the specific cluster, in that most vowel correspondences are affected by register and/or final consonant. A generalization, however, can be noted regarding vowel length contrast. Sedang does not have vowel length contrast as reconstructed in PMB. Sedang glided vowels reflect PMB long vowels and PMB short vowels never have glided reflexes in Sedang; but some PMB long vowels may be unglided in Sedang.

Presyllables. Like initial consonants, the PMB presyllable voiced stops have voiceless consonant correspondences in Sedang and "cha- has merged with "ta- and "ka-. Otherwise the correspondences are equivalent (i.e. 3dg po- derives from *pa-, etc.) except that sedang ho- derives from both *ha- and *sa-, and Sedang i- from *ja-.

	-	•	
PNB	*pagang	Sdg	pokeang 'medicine'
	*temm		tóméan 'things'
	*chatram		tótrau 'pigeon'
	*chapang		kópéang 'palm (hand)'
	*Ka som		kózôm 'lizard'
	*baqdam		pótám 'five'
	*daqbang		topang 'bamboo sprouts'
	*jala		ils 'thornbush'
	*gaqdim		kótém 'onion'
	*maham		móhéam 'blood'
	•henem		hónám 'year'
	*sanenh		hónéng 'teoth'
	*ressun		rómian 'soft'

6.2 Lexical borrowing

Many Sedang words clearly have genetic cognates in, for example, Bahnar and Vietnamese (as shown in Chapter 5). Apart from these, however, there are loaned or borrowed words from several languages of varying depths in Sedang. The oldest, and almost inscrutable, are Sanskrit and Austronesian loans dating from the period of the Indianized Champa kingdom period of the first millenium AD. French loans date from the hundred year period of French colonization of the 19th and 20th centuries. There are Vietnamese and Bahnar loans from recent decades and English loans from the period of the American involvement in the Vietnam war.

Sanskrit. Sanskrit loans in the Vietnam Mon-Khmer languages were probably introduced through the Chamic languages which had the direct contact with the coastal Indian colonizers on the one hand as well as with the Mon-Khmer tribal peoples of the mountain areas of the other hand. These loans are too few to permit anything more than speculation at this time. Thomas and Headley (1970.408) cite "a few (6) possible Sanskrit resemblances" for Mon-Khmer words in their study, four of which have Sedang cognates:

Skt phalm 'fruit' Sdg plai 'fruit'

asva 'horse' xei 'horse'

manusya 'man' monge 'person'

udaka 'water' tea 'water' (cf. PNB

*dak 'water')

The Vietnamese are known throughout much of Southeast Asia by a term like yuan (PNB *yun, 3dg xuan) which some relate to Skt yavana 'stranger, Greek'. Thomas (1974) dis-

putes this, speculating upon a Chinese yuch origin.

Headley (1973) includes the following two words which may have an Austronesian rather than Sanskrit origin.

Skt karpasa 'cotton' Sdg kópel 'kapok' jala 'net' chéa 'fish net'

Other Sanskrit linguistic influence noted in the Vietnam languages has been surveyed (Smith, 1974c); the following Sedang words are a few of those which seem to be related.

Skt pati 'master, lord' sdg pótáu 'king'

jan 'grow' chiang 'to become'

darah 'wife' drôh 'unmarried girl'

pura 'town' pólê 'village'

visesa 'eminence' póxeh 'supernatural'

brahma 'a (celibate) student'

rótám 'bachelor'
ratha 'wagon' róta tá 'to encircle'
upakāra 'service, favor' pókua 'to rule'
kapala 'skull' ko 'head' (cf. PMB

putri 'daughter' kédrai 'female'

kalinga 'Indian' (area new called Orissa)

kliang 'an unknown

land'

puja 'worship, offering pochau 'shaman'

Chamie, The Chamic (Austronesian, Malayo-Polynesian) people of Vietnam have doubtless been in contact with the mountain Mon-Khmer peoples since their arrival on the coast of Vietnam. They have forced a wedge between the Bahnaric people so that Bahnar and the southern tier of the North Bahnaric language groups (Hre, Rengao, Halang) are in contact with the Haroi and Jorai (Chamic) people in the central highlands from Quilthon to Pleiku and KonTum. It is sometimes difficult to trace the origin of resemblances found in the two language groups. Those with probable Chamic origin borrowed by the Mon-Khmer peoples as listed by Headley (1973) and present in Sedang include the following (the Proto-Chamic (PC) forms are from Lee (1966)):

> PC *truh 'arrive' Sdg troh 'approach' *jurum 'needle'

truam 'needle'

On the other hand, among the seventy-two words listed by Headley as having probable Mon-Khmer or Austroasiatic origin

-- though this is by no means certain -- and with Sedang cognates are the following:

> PC *jong 'axe' Sdg chuong 'axe' "rong 'back' rong 'back' rókou 'bear' -cagou 'bear' *cim 'bird' chem 'bird' *kang 'chin' keang 'chin'

#krus	19	101	£ 141 0	
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krui 'citrus'

"eh 'to defecate'

eak 'to defecate, dung'

"sagor 'drum'

hoka drum!

*ruai 'fly'

roi 'fly'

Jorai kodim 'enion'

kótem 'onion'

PC *bube 'goat'

pupai 'goat'

"hang 'peppery hot'

hang 'peppery hot'

*kalang 'kite, eagle' kleang 'eagle'

"sula 'lesf'

hla 'leaf'

"plum 'forest leech'

pliam 'leech'

*kamu nephew!

muan 'nephew, niece'

ha 'open mouth'

*(a)ha 'open mouth'

rohung 'papaya'

*hung 'papaya'

*lumah 'rhinoceros'

rome 'rhinoceros'

*blah 'to fight'

tople 'to fight, war'

*bala 'tusk'

póla 'tusk'

*cih 'write'

cheh 'write'

Other words of "uncertain origin" listed by Headley which have resemblences in Sedang include:

PC *kubau 'buffalo' Sdg kópou 'buffalo'

"mata 'eye!

ma 'eye'

*amah 'gold'

mea 'gold'

*phau 'sun'

phau 'gun'

Aymonier and Cabaton (1906) in their Cham-French dictionary include references to Mon-Khmer languages, including Sedang and Bahnar, in their lexical entries indicating the

extensive cross-cultural contact which they recognized.

Some of the resemblances which they indicated, not listed above, include:

Cham pluk 'canoe' Sdg plong 'canoe' mróng 'black' práng 'black' ribau 'thousand' rópau 'thousand'

Prench. The first Prench contact with the Sedang occurred following the entrance of French missionaries into the high-lands at Kontum about 1851. Subsequently government and military outposts were established. French loans in Sedang testify to these areas of French influence: western articles, food, government, and military terms. Among them are the following which, it can be noted, do not hesitate to utilize the less frequent phonological features, such as presyllable bó-, initial voiced and preglottalized etops.

Pr ballon 'ball'
béret 'beret'
borê, brê, porê 'hat'
bureau 'office'
boîta 'can'
salade 'salad'
bolat, xólat 'lettuce'

canon 'srtillery' kónong 'artillery'
café 'coffee' kóphé 'coffee'
la carte 'map' lógat 'map'

maillot 'T-shirt'	móyo 'T-shirt'; cf.
	VN may ô)
bateau 'boat'	pótou 'boat'
francais 'Prench'	preng 'French'
redio 'redio'	ródiô 'radio'
tomate 'tomato'	tómat 'tomato'
sac 'bag'	xak 'bag'
sou 'penny'	xu 'penny'
soupe 'soup'	xup 'soup'
zero 'zero'	zórô 'zero'

Vietnamese established governmental, military, and economic predominance in the Sedang area with concurrent linguistic influence in the Sedang lexicon. As with French loans, the Vistnamese loans also utilize voiced stops and preglottalized consonants, yet there is conformity to Sedang phonology. Vietnamese tones are not carried over except that Vietnamese hol and nga tones usually are reflected by Sedang final -h; Vietnamese general classifier for objects cal is usually reflected by bisyllabic words with presyllable kó- (cf. 12.5). Vietnamese loans are too many to list here, but include the following:

VN bai 'lesson' 3dg 'bai 'lesson'
bi 'marble' 'bi 'marble'
châm 'period' cham 'period, dot'

~~##~	
chú 'letter'	chu 'letter'
gac 'guard'	gak, kak 'to guard'
gach 'brick'	gat 'brick'
hoc 'study'	hok 'study'
khan 'towel'	ken 'towel'
gói cái thó/thú 'to mail a	letter'
	kôih kóthô 'to mail
	a letter'
xa-bong 'soap'	kobong 'soap'; cf.
	Fr. savon
cai ban 'table'	kó'bang 'table'
cái hộp 'small can'	kóhóp 'small can'
cai ly 'a glass'	kóli 'a glass'
cai mai 'machine'	kómai 'machine'
cai tu 'cupboard'	kótu, kótuh 'cupboard'
cal so 'mumber'	kóxo 'number'
cao su 'rubber'	kóxu 'rubber'; cf.
	Fr. caoutchouc
lang 'village'	lang, leang 'village'
my 'America(n)'	mih 'America(n)'
pho 'downtown'	pho, phong 'downtown'
truong 'school'	trung 'school'
ui 'to iron, grade'	uih 'to iron'

Bahnar. Bahnar influence in the Sedang area may extend further back than either the French or Vietnamese. Bahnar loans must be distinguished from the much greater number of Bahnar cognates in Sedang. There are three clues to distinguishing Bahnar loans from the cognates:

(1) Bahnar loans are used for modern articles not contemporaneous with the PNB period:

Sdg mrang 'chalk'

(2) Bahnar loans have different cognate forms in Sedang:

Bahnar loan-- Bahnar cognate-
Sdg dak 'village name designator'

tes 'water'

kon 'village name designator'

kuan 'child'

móne, bóne 'to thank' móna 'to thank' yang, bóyang 'God' xéang 'spirit'

(3) Bahnar loans utilize Sedang phonemes not derivable from PMB:

'bok 'honorific title'

di 'honorific pronoun'

duk 'boat'

glaih 'hailstone'

modok 'to teach'

pe '(imperative form)'

robot 'to memorize'

English. The American involvement in the war during the 1960s enabled Sedang men to serve with the American Special Forces. Frequently their families lived with the soldiers in the military camps. Thus English loans have entered Sedang in areas of military terminology and names of other western materialism which the US soldiers took with them. Such loans are too recent to be catalogued with the assurance that they are not just part of a dying montagnard English pidgin.

PART THREE: SEDANG SYNTAX

Introduction to Part Three

The syntactic analysis of this Part is basically tagmemic, with insights gained from Pike (1967), Pike and Pike (1974), Longacre (1964), Cook (1969), and others. Formulas (or charts where such seem more illustrative) are given for phrase and clause constructions; the latter are in the tradition of Elson and Pickett (1960) -- the two-cell tagmene -although the text accompanying the formulas specifies role (actor, scope, undergoer, locative, etc.) suggesting the four-cell tagmene of Pike and Pike. Transformations are used to describe variations of clause types. Patterning and structure are primary in the determination of grammatical categories rather than meaning or semantics; the latter is specified if there is an evident correspondence. (Por a description of a related language -- Rengao -- in which semantic categories are given priority over formal syntactic categories see Gregerson (1971).)

Primary emphasis in this description is given to clause structure. Clauses fill sentence level slots and consist of

ments are the more independent part of the construction whereas the peripheral elements are the dependent part. The former include the subject, predicate, indirect object, and (direct) object slots which determine the basic clause types described in chapter 9. The latter include the premuclear temporal slot and the postnuclear locative, adverbial, and final particle slots described in chapter 10. Variations of the basic clause types (chapter 11) entail permutations of word order of both nuclear and peripheral elements and transformations of the basic clause level slots are the noun phrase (chapter 7) and verb phrase (chapter 8).

Various other aspects of Sedang word- or clause-level syntax are given in chapter 12. Five (complex) sentence types are included in the last chapter. Analysis of paragraph and discourse structure is beyond the scope of this dissertation.

Throughout this Part syntactic units are described, restated in formula form (sometimes in chart form) and illustrated. Word classes are established and their membership suggested; for the smaller word classes all known members are listed whereas for the larger classes only a token sample is presented. There are a few function words which are assigned to more than one word class creating an overlapping of word classes—perhaps these are homonyms? Cross—references make

explicit such overlapping. All examples are glossed and their syntactic structure stated. A slash in a Sedang example separates alternate (sometimes dialectal) variants of the word (e.g. 'bang/'mang). In glosses of single words commas are used to separate alternate English equivalents and colons are used to separate literal and idiomatic equivalents. In glosses of phrases, clauses and sentences, parentheses are used both (1) for supplying the content of Sedang words omitted by ellipsis and (2) for clarification. In the brief syntactic statement supplied following each example abbreviations are used for which see Table of Abbreviations which, in turn, identifies the chapter and section where each item is defined. In the earlier chapters to illustrate some contained or embedded units a syntactic structure may be used which has not yet been introduced. In the syntactic statement the nuclear elements are subsumed under the basic clause type and its variations; peripheral elements are given in order, separated by commas; syntactic slots are separated from their fillers (when specified) by colons: clauses and (complex) sentences are enclosed within parentheses; repeated elements are enclosed in parentheses followed by "x2", "x5", etc. Included parentheses not preceded by coums or colon indicate a subordinated or embedded clause. In chapters 7 and 8, before clause structure is discussed, included parentheses sometimes contain only a syntactic amplification of the preceding term. Any example without a syntactic description is syntactically identical to the previous example or statement.

Parallel to the computational emphasis of Part II, throughout this Part statistics are provided to indicate the relative frequency of the various syntactic units in natural text. Two different bases are used. For indicating the frequency of specific words or short phrases a 27,457-word collection of discourses, narratives, etc. is used for which a word concordance had been prepared (see Acknowledgements). For indicating the frequency of specific phrase or clause types a shorter sample of this collection--765 clauses--is used for which an exacting analysis was made. Examples, however, are also drawn from the larger reservoir of language material available in the author's notes, dictionary, and vernacular publications (see Bibliography).

CHAPTER 7 NOUN PHRASES

7.0 Introduction

Noun phrases (NP) are syntactic units composed of one or more words with, potentially (i.e. barring only ellipsis (12.9)), a noun as head and are used semantically to denote actor, recipient, beneficiary, goal, means, location, etc. Noun phrases are used for the nuclear subject, (direct) object, indirect object, locative, and complement elements of clauses (see chapter 9) and for the peripheral temporal, locative, and adverbial clause elements (see chapter 10).

This chapter describes the five types of Sadang noun phrases. In both the basic noun phrase (7.1) and the pronoun reference phrase (7.4) the noun phrase head occurs phrase initial. The latter is an expansion of pronouns, an element of the former. In all other noun phrases an element of the noun phrase--and that for which the phrase is named--occurs before the noun phrase head: a number in the count noun phrase (7.2), a plural marker in the pluralized noun phrase (7.3), and a preposition in the prepositional phrase (7.5).

After the description of each noun phrase and the introduction of each word class occurring therein, there is a further discussion of each word class.

Apposition, or expansion of the noum phrase, is treated as a clause level phenomenon (12.7).

7.1 Basic noun phrase

The basic noun phrase (bNP) may consist of a sole noun phrase head (MPH), being either a noun (N), a personal name (PMame), or a pronoun (Pron).

kóta 'egg' (N)
hngei 'house'
nôu 'mother'
A-Pia 'A-Pia (a story princess)' (PName)
ga 'he, she, it' (Pron)

In the basic noun phrase the noun phrase head is always phrase initial. A noun phrase head noun may be modified by a second and, infrequently, a third (descriptive or modifying) noun.

kéta í 'egg-chicken: chicken egg' (N N)
mónat hngei 'wall-house: house wall'
ing bo chéang 'side-opening-gate: the gate side
 (of village)' (N N N); in I-C analysis the
 relationship would be (N(N(N)))

A noun phrase head noun, whether or not followed by a second or third descriptive noun, may be modified by any of the following:

(1) a personal name to identify a specific animate being;

rotam Preang 'youth Preang (a story prince)'
(N PMame)

kia Neak 'ghost Neak (a story ghost)'

nou A-Jok 'mother (of) A-Jok' (parents are named by any of their children's names)

pa o Nga 'father-child-Nga; father of child Nga' (N N PName); in I-C analysis the relation ship would be (N(N(PName)))

(2) a personal name or pronoun (or pronoun reference phrase (PRefP, 7.4)) to indicate personal relationship;

bau Pó-ông 'Po-ong's rice' (N PName)
pólê ga 'his village' (N Pron)
kúan á 'my child'

hagei vai tomoi 'the strangers' house' (N PRefP)

(5) a geographical name (GName) to identify a designated geographic feature:

Kong Xuan 'Vietnamese land' (N GName) Vang Poa 'Poa Pass'

Tea Poxai 'Poxai River'

Ngo Bang 'Rang Mountain'

(4) a descriptive name (DName) to specify a specific rather than a generic item;

kla treang 'treang tiger: leopard' (N DName)
chem hlum 'hlum bird: Kingfisher'
loang plai trai 'banyan fruit tree' (N N DName)
chem loang plai trai 'banyan fruit tree bird'

(N N N DName)

or (5) a verbal descriptive (vDes), being a main verb (Vb) or verbal adjective (vAdj)(see below).

mónge 'mei 'evil person' (N vAdj)

tea fou . 'hot water'

kis kok 'crasy ghost'

'bok xoi 'secrificing westerner: priest' (N Vb)

Any of the preceding varieties of the basic noun phrase may be followed (1) by the relative particle (RelPt) ki plus an embedded clause (GL), noun phrase, demonstrative (Dem), or mumber (Num) (ki Num is an ordinal number; see 7.2 for Numbere), or (2) by a prepositional phrase (PrepP) (see 7.5). The nominalizer todrosms 'thing, matter, problem' frequently does not have ki before a clause or noun phrase. ki may be elided before clauses. Neither relative clauses nor prepositional phrases have been observed iterated in this construction.

tritrou ki ai mông 'mosquite which has a beak'
(N ki T CL)

pókéang ki chiang xiam kóla 'powder which becomes a bamboo clump' (N ki Eq3 CL)

loang ki ga ko nah 'tree which he chopped yesterday' (N ki T CL)

loang ki kak 'wood which dried; dried wood' (N ki Eql CL)

kleang ki ê 'another eagle' (N ki Eql CL)

péang ki hlá 'the side with leaves' (N ki N)
kia ki me 'that ghost' (N ki Dem)
hai ki môi 'the first day' (N ki Num)
todroang á 'nai 'the things I know' (tódróang
CL)

tódróang kong kliang 'the matter of Kliang land' (tódróang NP)

tiu ga mot tung tone: 'the place he entered the earth' (N CL)

pu tung pole 'friends in the village' (M Prep?)

The relative particle ki is the eighth most frequent word in the 27,437-word text, occurring 404 times; and ki me is the eighth most frequent two-word sequence in text occurring 76 times.

Purther, any of the above varieties of the basic noun phrase may be followed by a demonstrative (Dem), locative (Loc), temporal demonstrative (TempDem, 10.1), or, if the noun phrase is non-specific, by a nominal interrogative (NomInter).

tes min me 'that Min River' (N GName Dem)
kuan ga me 'that child of his' (N Pron Dem)
'bok xoi me 'that priest' (N Vb Dem)
Preeng me 'that Preang' (PName Dem)
hai ta 'that day' (N Dem)
a ko 'I myself' (Pron Dem)
kia ki e ko 'this other ghost' (M ki CL: (vAdj)

Dem)

chiak cham 'the field down there' (N Loc)

kong muan tai 'the Vietnamese country up there'

(N GName Loc)

dôn en chem 'your son-in-law down there' (N Pron Loc)

kong pin nah 'our country formerly' (N Pron TempDem)

The basic noun phrase may thus be summarised as in Chart 7.1.

			PName		(-CL	
			Pron	- <u>k1-</u>	-NP	-Dess
H	-H	-M	PROFP		-Dem	-Loc
			-Qjihme		-Mun	-TempDem
			-Ditane			-Nominter
			-YD4s	-Prep	P	

Chart 7.1 Basic noun phrase (the basic noun phrase consists of any one or more items in the linear order given, but not more than one item per box; bracketed items cooccur with ki; prehyphenated items are non-initial and optional; at least one mon-hyphenated item must necessarily occur)

Nouns. Nouns (N) form a very large class of words, only a few of which are included herein. Most nouns are, like those cited above, mono- or bisyllabic words; that is, one phonological word. There are also compound nouns and formula nouns which, however phonemically different, function syntactically like all other nouns.

Compound nouns consist of two phonological words. Some compound nouns have a meaning derivable from that of their parts.

nou ps 'mother-father: parents'

Ja pos 'grandmother-grandfather: grandparents'

Other compound nouns have a meaning which cannot be derived

from their composite parts.

hla mo-es 'leaf-f: paper'

nhong o 'elder-younger sibling: relatives'
kuan kis 'child-ghost: enimels'

on hugei 'fire-house: family'

Other compound newns are composed of parts with no known meaning spart from the compound.

bling blos 'en "x" mark'

Formula nouns group four specific items together to represent an entire generic grouping.

shu í kópou ro 'pig-chicken-buffalo-cow:

formula for all domestic animals'
Sometimes formula norms form a rhyming pattern in which the
second item rhymes with the third, following the general
poetic rhyming pattern in which the last word of a line will
rhyme with the first word of the following line (or a word
near the beginning of the line(12.12; Smith, 1973c). Despite

their similarity such rhymes are not as common in Sedang as has been reported, for example, in Halang (Cooper, 1975).

rómóang vai khán jia 'Lactian robe-Jórai cloth-long garment-shawl: formula for all kinds of blankets and robes'

(Note that the Central Sedang denasolaryngealized form of khan is khal which rhymes with val; the latter, being a Jorai term, does not have a nasolaryngealized form in sedang.)

Countable nouns (cN) are discussed in 7.2; animate nouns (ann) in 7.3.

Pronouns. Personal pronouns (Pron) form a small class of words whose semantic system is characterized by singular, dual and plural number, and inclusive and exclusive first person forms, as shown in Chart 7.2, except that there is no dual/plural contrast for the second person category. The

	Singular	Dual	Plurel	'	
ist P	Á	mé	ngin	Excl.	
		p é	pin	Incl	
2md P	eh	7) 		
5rd P	g a	préi	vai		

apparent incompleteness of the pronominal system at this point corresponds to an aspect of current development of pronominal systems among the North Bahnaric languages in which the forms *bri and *chop have derivatives with varying meanings within the 2nd-3rd person dual and 2nd person dual-plural areas of meaning. The sedang po is not cognate with any pronoun of the neighboring languages (Smith, 1974d).

There are five additional pronouns with other semantic features: the personal interrogative and indefinite pronoun kóbó 'who?, anyone', the impersonal interrogative kiklai 'what?', the indefinite pronoun 'na 'some(one)', and the in-law respect pronouns chuô and kódra, chuô is a second person singular pronoun 'you' used with all in-laws except brother- and sister-in-laws who use the o/mai reciprocal terms. kódra is a third person singular and dual pronoun 'he, she, those two' used of all married couples if one of them is addressed chuô. (Smith, 1974b).

on kóbó 'whose fire' (N Pron)

Ál kóbó oh. 'There isn't anyone.' (Ex CL: (Ex Vb. Pron), fPt)

Kiklai kochep á kô. 'What pinched me here?'
(T CL: (Pron, T Vb, Pron), Loc?)

'Na khôn ia, 'na khôn chúan. 'Some say ia; some say chuan.' ((T CL:(Pron, Q Vb, N))x2) Chuô róngei ti me neô. 'You sing like that some more. (I CL: (Pron, I Vb), ManP, fPt)

In Smith (1969a.115-122) another description of Sedang pronouns is given utilizing a tree-branching diagram and the binary values of the features hearer, speaker, non-singular and non-specific number. This analysis, included in a generative transformational analysis of Sedang affixation, proposed a means for "adding pronouns" as required for the reciprocal prefix tó- (12.2).

In a 27,437-word text with 1409 different words, three of the five most frequently occurring words are pronouns. One in every twenty words is the pronoun ga. The ten personal pronouns (as shown in chart 7.2) occur 5,627 times so that one in every 7-8 words in the text is a pronoun. Chart 7.5 indicates the ranking and frequency of the ten personal pronouns in the large text.

A study of two-word sequences in that same text indicates that the pronouns ga, vai, a, and po also occur frequently in certain common symtestic sequences. Chart 7.4 shows ten frequent two-word sequences with pronouns with their frequency and symtestic function. One of every three occur-rences (507/1707) of me 'then, that', shown below to be the most frequent word in text, occurs contiguous to a pronoun (including those across clause and sentence boundaries); and one of every three occurrences (133/376) of the verbal particle hims 'already' occurs following a pronoun. Of the other function words cited in the chart, 10-20% of their oc-

Rank	Pronoun	Frequency
2	ga	1334
3	*	684
5	vai	558
15	•h	306
18	pin	284
30	prei	161
43	po	127
77	ngin	74
103	ma.	51
109	på	46
	Total:	3627

Chart 7.5 Rank (of most frequent words) and frequency (of occurrence) of pronouns in 27,437-word text

currences are contiguous to a pronoun. Only ga me and dei po are immediate constituents within a phrase; the others are contiguous only as frequent members of contiguous syntactic units on the clause level.

Personal names. Sedang personal names (PName) are almost always (99%) monosyllabic. In determining personal names parents avoid both meaningful words and other known names.

Rank	Sequence	Fre- quency	Syntactic function	Chapter
1	me ga 'then he'	215	CL: Temp, S:Pron	10
5	ga me 'that he'	129	NP: Pron, Dem	7
13	me vai 'then they'	61	CL: Temp, S:Pron	10
14	me. Ga 'that. He'	60	CL: fPt. S:Pron	10
15	á va 'I wast'	55	CL: S:Pron, VP	9
18	ga hiang 'he alreedy'	51	CL: SiPron, VP	9
20	ga u 'he still'	49	CL: S:Pron, VP	9
21	á hiáng 'I already'	49	CL: SiPron, VP	. 8
25	ko ga 'now he'	44	CL: MP/Temp, S:Pron	10
37	dei po 'together'	37	RecipP: RecipPt,Pro	n 11

Chart 7.4 Rank, frequency and syntactic function of common two-word sequences with pronouns in 27,437-word text

Personal names thus form a large open class of words. With the search for unique personal names there is consequently a skewing of the phonological system. The common phonological features of the general vocabulary are ware among personal names, and vice versa. Cf. Smith, 1969c.

The use of a prefix I- or A- before names to indicate sex (common among the Jeh, Rade, etc.) is not generally precticed by the Sadang.

Geographical names. Geographical names (GHame) are those terms used to identify specific geographic features and do

not occur spart from the preceding designator: rivers (Tea... or Dak...), countries (Kong...), mountains (Ngo...), mountain passes (Vang...), and villages. Village names usually begin with one of the following designators (to show relative use of these designators the number in parentheses indicates the number of specific villages known to use the term as included in my Sedang dictionary):

Tea... (or Dak..., a Bahnarism) 'water' (62)

Kisn... (or Kon..., a Bahnarism) 'child' (56)

Tu... 'an anthill' (10)

Hang... '(?)' (8)

Váng... 'mountain pass' (3)

Village names not utilizing one of the above designators include: Jóxia, Kôh Kông, Lang Lá, Ling Lá, Lông Rua, Momoh, Mgok Hring, Pólê ('village') Kia, Rang Rea, Teng Mong, Va Móná, Vak Xang, Yang Móná.

Descriptive names. Descriptive names (DName) are those terms assigned to things of nature to extend the folk taxonomy from the generic to the specific and form a large class of words. Descriptive names do not occur apart from the noun being described. Descriptive names frequently indicate color, size, etc., although many have no (recoverable) meaning apart from the specific thing so named. For example, the group of klatinger' includes:

klá mónge (monge 'people') 'man-eating

tiger'

klá hónan (hónan '?', is also used as a name

for a kind of kótón 'bat' and a kind of

priat 'banana') 'a large tiger'

klá tréang (tréang '?', is also used as a

name for a kind of nha 'grass', chok 'shrew',

and plai 'fruit') 'leopard'

klá chêm (chêm 'bird') 'a small tiger'

klá hónian (hónian '?') 'a tiger'

Verbal descriptives. A verbal descriptive (vDes) may be any main verb (excluding equative verbs and the existive verb) or a verbal edjective (vAdj). The main verbs are defined and discussed in 8.1, but to illustrate their occurrence as verbal descriptives in noun phrases they will be prematurely introduced here. The most common main verbs in this function are transitive verbs.

nge tia 'the answering person' (N, vDes:(Q Vb))

tiù kôm 'waiting place' (N, vDes:(C Vb))

plai lôi 'abandoned fruit' (N, vDes:(B Vb))

troang hóda 'escape trail' (N, vDes:(S Vb))

bau ka 'esting rice' (N, vDes:(T Vb))

'bok xôi 'sacrificing westerner: priest'

drôu ôu 'drinking wine'

hagei 'nhie 'destroyed house'

tógông eak 'defecating place' (N, vDes:(I Vb))

Verbal adjectives are discussed in the next paragraph. Thus verbal descriptives may be formulated as follows (read slash as "or"):

VDOS: Q Vb/C Vb/B Vb/S Vb/T Vb/I Vb/VAdj

Verbal adjectives. Verbal adjectives (vAdj) function as verbal descriptives in noun phrases, as predicate complements in equative clauses (9.7), as descriptive phrases (10.3), and as an element of the quantitative particle phrase (10.5). Verbal adjectives form a large class of words. The last word of each of the following phrases is a verbal adjective illustrated here in a noun phrase as a verbal descriptive; each phrase may also be read as an equative clause.

pole ache 'near village' (N vAdj)

tomesm be 'enough things'
his bong 'white leaf'
hme chiu 'burned rice'
hmgei ha 'crowded house'
chiak honge 'distant field'
rono hongiu 'cold season'
hmou kan 'big rock'
kia kok 'crasy ghost'
droh lem 'beautiful girl'
to his 'dead monkey'
honem mongua 'lacking year; famine'

monge 'mei 'evil person'
tomeem hugem 'heavy thing'
chang peng 'full basket'
monge rotoh 'bad person'
vo ton 'eld jar'
tea tou 'het water'
bau tuam 'ripe rice'

The word tai 'to be completed, gone' functions as a verbal adjective in all cases except in the above noun phrase.

Demonstratives. There are three degrees of proximity shown by demonstratives (Dem):

close ko 'this, here'
intermediate me 'that'
distant ta 'that'

The indefinite demonstrative is lai 'any'.

In the 27,457-word text the word me is the most frequent word, occurring 1707 times or once for every sixteen words. This word was not distinguished in the count, however, for its various functions (ef. Temp me (10.1), fPt me (10.4), ContConj me (13.5), ResConj me (13.5)). The word ko is the fourth most frequent word, occurring 593 times; whereas the Dem ta is ranked 86, occurring only 65 times.

Locatives. Locatives (Loc) are used to express geographical location. The locatives include:

cham 'down there, lower, downstream'

hódrói 'before, in front of'

ko'nai 'behind, in back of'

'ngei 'up there' (vertical orientation)

peng 'above, upstream'

tai 'up there, upstream'

xuap 'down there, lower, downstream'

Two locatives may occur together, as in:

Gá heo loang a 'ngei tai. 'He climbed the tree way up high.' (T CL, Loch: (Prep, Loc, Loc))

Mominal interrogatives. There are three nominal interrogatives (Nominter) which are used in noun phrases.

lai 'whicht, what?'

klai 'which?, what?'

kiklai 'which?, what?'

u lai 'where?' (N, NomInter)

trong lai 'which path?' what path?'

kónou klai 'which man?, what man?'

kong kiklai 'which country?, what country?'

7.2 Count noun phrase

The sount noun phrase (CNP) is used when indicating a specific quantity. A number (Num) is phrase initial and,

except in special cases of ellipsis (see 12.9), must be followed by either a classifier (Cl) or countable noun (cM) which does not require a classifier. The head noun categorised by the classifier follows the classifier but, in the simple count noun phrase, is usually elided if the context has already implied it.

môi to ket 'one frog' (Num Cl N)
pun ngê rótém 'four young men'
pea to 'two (something)' (Num Cl)
pái ngê 'three beings'
pótém lién 'five piastres' (Num cN)

The head noun of the count noun phrase is, in essence, the head noun of a basic noun phrase and may be modified by following modifiers as described in 7.1.

pái rónó kúxái rái 'three pieces of rattan vine' (Num Cl N N)

môi ngề A-Piá me 'that one person A-Pia' (Num Cl Phame Dem)

môi poléang ráng gá me 'his one arrow' (Num Cl N Pron Dem)

môi to ket dro 'one <u>dro</u> freg' (Num Cl M DMame) môi xu khei 'one red cent' (Num cM vAdj)

The count noun phrase may be summarised as in Chart 7.5.

Num	-C1	(-bnp(nph:n))
!		-bnp(mpm:cn)

Chart 7.5 Count noun phrase (the count noun phrase consists of either horizontal reading with the outer-bracketed element optional, the inner-bracketed items specifying restrictive filler requirement)

```
Numbers. The basic numbers (Num) form a decimal system.
```

môi 'one'
pea 'two'
pai 'three'
pun 'four'
pótam 'five'
tódrôu 'six'
tópah 'seven'

toheem

tóchen

There are four number multipliers (Mult) which follow the basic numbers and by which they are multiplied:

'eight'

'nime'

moi chat '10' (Num x Mult)

pea chat pai '25' (Num x Mult + Num)

hring 'hundreds'

pun hring '400' (Num x Mult)

potam hring tódrou chat topah '567'

(Mam x Malt + Mam x Malt + Mam)

ropau 'thousands'

toheam ropau '8000' (Nam x Mult)

moi chat pea ropau tochen hring pai chat potam '12,935' ((Num x Mult + Num) x

Mult + Num x Mult + Num x Mult + Num)

rotuh 'millions ?'

The numeral interrogative (NumInter) to lai 'how many, how much' functions as a number.

to lai 'bang chiak' 'how many fields' (NuCl N)

to lai hring to honou 'how many hundred rice houses' ((NumInter x Mult) Cl N)

to lai homam 'how many years' (NumInter ch)

The approximate number (apNum), consisting of any two successive basic numbers, is used to mean 'several' and also functions as a number. The value of the numbers may suggest the approximate quantity without being specific.

apMus: Mus Mus 1-1

pea pai to mge 'several (two-three) persons' (apmum Cl N)

pun potem pum 'several (four-five) round things' (appum Cl)

Ordinal numbers are formed by ki Num; see 7.1 for an example. (Also Smith (1975).)

Classifiers. Classifiers (CI) form a modest-sized closed set of words and are required for counting most items. Each classifier is used with a specific (though open) set of words which usually have either shape, size, or function in common. The general classifier to overlaps many of the other classifiers. Some classifiers are also nouns which require some other classifier when used as a noun; cf. kóta, pôu. There is also some overlapping within the classifiers; cf. 'noung and pum which both classify kóta 'egg'. The classifiers are listed below.

The general classifier:

to classifier for most animals, beings,
body parts, baskets, buildings and parts
of buildings, geographical features,
chang 'swords', konep 'scissors', etc.

The classifier to occurs without a preceding number if the sense is 'only' or 'only one' and, in this case, usually, but not always, with the final particle xo 'only' (of. 10.4).

À va ka to konaî xo. 'I want to eat rat only.'

(T CL, fPt)

Ga hlo to ting kónai. 'He saw a boar tail.' (T CL w C Vb)

Other classifiers:

'bang/'mang -classifier for plots of ground:

chiak, poh 'fields', deang 'garden'; also
for peam 'fish trap'

buang -classifier for blankets and garments:

jia, ken, hmou

'do -classifier for bamboo: kóla, pó-ó

kómea -claseifier for clusters of bamboo: pó-o

kópau -classifier for garments: rómoang, khán, duôh, káng, kópan, pókhom

his mo-es 'sheets of paper', chiu 'disks',

hmou ko'deang 'flat stones', cheng hleng,

koang 'gongs', chuong 'axe', koxiang pha

'shoulder blades', ton, kotum, ding 'trays',

xing 'trays'; elso for hodro 'kettles'

kótou -classifier for crebs: kótesm, ase kótou -classifier for things that can be held

in the hand

'noang/noang -classifier for round objects: tu-ua

'squash', prist 'bananas', hmou 'stones',

plai 'fruits', hodro 'small kettles', ploi

'gourds', kota 'eggs', vo 'juge', 'nhen koe
'wrapped rice'

-classifier for human-like beings: kuan
'children', kónou 'men', kódrai 'women',
rótam 'boys', drôh 'girls', kia 'ghosts',
xéang 'spirits', Mih 'Americans', nha
'scarecrow', etc.

pa -classifier for xiam mona 'bird wing',

chum 'bird breasts'

pang -classifier for klong 'sections of bamboo'

pou -classifier for tu-us 'squash'

pum -classifier for round objects: kóts

'eggs', plôi '(sedang round) gourds', plai

'fruits', pian, tu-us, pou 'squash'

póleang -classifier for short stubby things:

hóneng 'teeth', rang 'bullets and quills',

hó'rang 'fingers', xak 'bairs', xua 'quills'

pla -classifier for rolled up things: duh
'sleeping roll', hman 'pants'

ro -classifier for pos 'area under shoulder blades'

rono -classifier for long, nerrow objects:

kopen 'loin cloth', rei 'rettan', ploi

'(Vietnamese long) gourds', pah 'snakes',

tokoa, koxom 'long lizards', on ngang

'earthworms', kau, true, ropong, ka tre,

etc., various long fish, ning nong 'eels'

xiam -classifier for loang 'trees', vo

Countable nouns. Countable nouns (cH) are those nouns which do not require a classifier when preceded by a number.

Countable nouns belong to several semantic groups of quantity:

(1) Time: honem 'year', chôu 'hour', hai 'day', khê 'month', mang 'night', póla mang tíng 'week', zei 'afternoon', etc.

pes chat hónam 'twenty years' ((Num x Mult) cN)
(2) Noney: lián 'a piastre', kak 'a tenth piastre', xu
'a hundredth of a piastre'

môi hring lian 'one hundred plastre' ((Num x Mult) cN)

(3) Parts of wholes: hodroh 'verse of song', na 'time, turn', pa 'side, half', poe 'piece', xôh 'time, turn', chuan, la 'row in field'

Pin roe mam môi xôh pea hring. 'We buy ment one time two hundred (plastres).' (T CL, Quant: (Num cN), Quant: (Num cN))

Ela ka môi pa kôtel ga zo. 'The tiger ate one side of his buttocks only.' (T CL: (O:CNP), fPt)

(4) Baskets: chang, chea, ro, etc., various sized baskets
A few other neums may occur without a classifier: hódro
'kettle', hónôu 'rice house', tíú 'place'.

Ga va pôu péa chang. 'He wants to carry two basketsful.' (T CL(O:NP:(Num cN)))

7.5 Plurelized noun phrases

The pluralized noun phrase (plNP) is used to indicate quantities without use of a specific number. The pluralized noun phrase consists of a plural marker followed by a basic

noun phrase with or without an intervening classifier, or by a pronoun reference phrase with vai (7.4(6)). There are two kinds of plural markers (plN): general and animate.

tang 'all (of a given set)', hen 'many' (of. Quan hen (10.3)), tun 'every', rem 'each', and a compounded emphatic general plural marker tum rem 'each and every'.

tai tang kia 'all ghosts' (gen-plN N)

tai tang vai 'all of them' (gen-plM Pron)

hen monge droh 'many girls' (gen-plM N N)

hen todroang 'many problems' (gen-plM N)

tum kan pole 'every village chief' (gen-plM N N)

tum todroang 'all problems, matters' (gen-plM N)
tum vai kra konou 'all the old men' (gen-plM
PReff)

rem hai 'each day'
rem pum 'each round object' (gen-plk Cl)
tum rem nge 'each and every person'

Two of these general plural markers, tai teng and hen, may occur after (as well as before) a noun (though not after a longer noun phrase). In the post-noun position a reduplicative emphatic form of hen also occurs: hen him/hen hing.

kia tai tang 'all the ghosts' todroung hen 'many problems' todroung hen hin 'very many problems' The animate plural marker (an-plH) is mau and is followed by a basic noun phrase whose noun phrase head must be an animate noun (anH) (without a classifier), by ki CL, or by the pronoun reference phrase with vai (7.4(6)).

man chu leang 'villages chiefs' (an-plM anN N)

man róteang 'Sedang people' (an-plM anN)

man ki chia tónap 'those who dig graves' (an-plM

ki CL(T CL))

mau vai kra konou 'the male elders' (an-pl# PRefP)

A mau pluralized noun phrase may delimit a preceding noun.

khu mau vai me 'that group of them' (N plMP: (an-plM, PRefP:(vai Dem)))

The pluralised noun phrase may thus be represented as shown in Chart 7.6.

	-bnp
gen-pl#-	
	-PRefP(Pron: vai)
an-plM(meu)-	-bmp (mpm 1 arm)
	-led CL

Chart 7.6 Pluralized noun phrase (plNP)
(the pluralized noun phrase consists of any two elements in horizontally-adjacent boxes; inner-bracketed items specify restrictive filler requirement)

7.4 Pronoun reference phrase

The referent of a third person pronoun or of a third person component of other dual or plural pronouns is made specific in the pronoun reference phrase, though the referent may also include the speaker or hearer. The implicit third person component may be clarified and made explicit by a following (noun or) basic noun phrase. The pronoun reference phrase may function as a pronoun in the basic noun phrase. (Cf. Smith (1974d) for a discussion of the mechanism of some Sedang pronoun reference across clause and sentence boundaries.)

(1) The pronoun reference phrase with ma 'we (excl.) two' identifies for the hearer with whom the speaker is identifying himself by use of the dual pronoun.

ma o 'my younger sibling and I' (ma H)
ma pa a 'my father and I' (ma H Pron)

(2) The pronoun reference phrase with ngin 'we (excl.) all'identifies for the hearer with whom the speaker is identifying himself by use of the plural pronoun.

ngin roteeng ko 'we sedang people (you are not one)' (ngin N Dem)

(3) The second person plural pronoun po 'you all' may encompass an absent third person party. The third person party may be made explicit with the pronoun reference phrase.

po doh 'you and your son-in-law' (po N)

(4) The pronoun reference phrase with ga 'he, she, it'

makes explicit the pronoun referent, usually by citing the personal name.

ga koxet thus 'he, i.e. Koxet Thus' (ga PNeme)

(5) The pronoun reference phrase with prel 'those two'

identifies, if necessary, the identity of the referents of

the dual third person pronoun. There are four forms which

this can take. The N which usually occurs in this construc
tion as formulated below may be expanded to simple noun

phrases.

(a) prei H if both referents are describable by the same term;

prei chau 'the two grandchildren' prei kodrai 'the two women'

- (b) prei N N or
- (c) prei N prei N or
- (d) N prei N if both referents are not describable by the same term.

préi ong men 'the two brothers-in-law'
préi pon chau 'the grandfather and grandchild'
préi kla préi kon 'the tiger and the turtle'
préi pa préi kuan 'the father and the child'
Xôu préi na Xôu 'Xou and Xou's sister'
pa Xôu préi và Xôu 'Xou's father and Xou's

father-in-law!

todroang prei cho prei monge 'the matter of the dog and the person' (MP:(N PRefP))

(6) The pronoun reference phrase with <u>vai</u> 'they' identifies the referent of the plural pronoun. In addition to a (noun or) basic noun phrase the referent may be described by a verbal adjective (7.1). Only this pronoun reference phrase may be preceded by the general animate pluralizer may (7.3).

7.5 Prepositional phrase

The prepositional phrase (PrepP) is used as a filler of the indirect object (locative) slot of the semitransitive clause (9.4) and of the locative and temporal peripheral slots in other clauses (10.1-2). As stated above (7.1) the prepositional phrase may also be a part of a basic noun phrase. The prepositional phrase has an initial preposition (Prep) followed by any of the above noun phrases, a demonstrative, or a locative. By ellipsis (12.9) most prepositions may occur without a following noun phrase.

The prepositional phrase may thus be summarized:

PrepP: Prep - bMP/cNP/plNP/PRefP/Dem/Loc

a hagei 'to the house' (Prep bMP:(N))

'bang a 'with me' (Prep bNP: (Pron))

'bang moi nge konou 'with one man' (Prep

cMP:(Mum Cl N))

tung tai tang pole 'in all the villages' (Prep

plmP:(gen-plm N))

ko vai konou 'vis-a-vis the men' (Prep Preff:

(vai H))

tung me 'in there' (Prep Dem)

hing peng 'the area up above' (Prep Loc)

Prepositions. The following prepositions (Prep) are used in prepositional phrases:

e 'to, toward'

beng with

dreng 'with'; of. TempSub dreng 'while' (10.1)

dreng sh 'with you' (Prep Pron)

dro 'in the middle, in the midst'

dro troang 'in the path' (Prep N)

hing/hong 'in the vicinity of'

hong cham "the area down below" (Prep Loc)

ko 'to, in relation to'; note its use also

in SimP and CompP (10.3) and BenP (11.2); of. fPt $k\hat{o}$ (10.4)

kodam 'beneath, below'

kodam Kon Hreng 'below Kon Hreng village' (Prep N GName)

'nang 'diminished to'

Mot 'mang krang. 'Enter up to the knees.'
(S CL:(S Vb, PrepP:(Prep N)))

popeng 'above'

popens tone: 'above the ground' (Prep N)

sap 'from'

Lam sap Kon Tum. 'Go from Kontum.' (S CL: (S Vb. Prepp: (Prep N GMame)))

'up high in, up high on'
Ga oi ti loang. 'It lives up high in the
tree.' (I CL. Loap: (Prep N))

tung 'in, within, into'

Preo tung kong. 'Return into the jungle.'
(S CL:(S Vb, PrepP:(Prep N)))

The preposition kodam has a nominal use as in:

Now! ko'neh tung kodam. 'The come fell in the place
underneath.' (I CL, LocP:(Prep N))

The preposition $k\hat{o}$ also has a relator use as a relator particle (RelrPt) (1) identifying possession (but also see RelPt ki above (7.1)) and (2) marking (sometimes) indirect objects in clause structure (9.1-2). See also $k\hat{o}$ with final

particles (10.4).

7.6 Distribution and frequency of noun phrases

Chart 7.7 lists \$1 different noun phrase forms which occur 953 times in the analyzed sample of continuous text. Each of these noun phrase forms is included in a noun phrase description above; there are other combinations, however, which are structurally possible (some, but not all, of which have been observed elsewhere) not occurring in this limited sample. The chart indicates the frequency of each phrase type in each of the five clause slots in which noun phrases occur.

types in which they occur, noun phrases occur most eften in the subject slot (529 times), less often in the object (254) and locative (136) slots, infrequently in the indirect object and temporal slots. The basic noun phrase contains the greatest variety of forms (41 of 81) and occurs most frequently (85%) in this text sample. Pronouns occur five times more frequently than nouns in the subject slot; whereas nouns occur 2-1/2 times more frequently than pronouns in the object slot. Prepositional phrases are restricted to the locative and temporal slots except for their infrequent occurrence within the basic noun phrase itself. Noun phrases can theoretically be expanded maximally to six or more ecomponents; but the eight phrase forms having only one

component account for 615 nown phrase occurrences (65%).

Thenty-four 2-component phrases account for 252 occurrences;

thirty 3-component phrases account for 78 occurrences; seventeem 4-component phrases account for 26 occurrences; and the
only two 5-component phrases account for only 2 occurrences.

There are no 6-component or larger nown phrases in the sample.

						3	IO	0	Locp	Temp?
.si	n	oun	ph	76.50	ć					
	H					60	3	105	8	
	H	N				2		10	3	
	H	H	Ħ	Ditame			•	1		
	N	n	M	<u>.</u>	Dem			1		
	M	H		PName				1		
	Ħ	N		Plane	Dem	z		•		
	H	N		Pron		1				
	M	N		Pron	Dem	1		4	1	
	Ħ	Ħ		Ditame	Dem	1				
	Ħ	N		VDes.				1		
	N	Ħ		VD05	Dem			1		
	Ħ	H			MomInter			1		
	N	N	*		Den	1		2	5	
	N			Pitomo		10		7	2	
	N			PRame	Dem '	4				
	H			Pron		13		9		
	N			Pron CL	:			1		•
	Ħ			Pron	Dem	6		6	•	
	M			Pron	Loc	1				
	H			CHame				1		
	N			Ditame		2				
	Ħ			VDes		5		6		-
	Ħ			ADes			··.	1	-	.
	Ħ			VDes MP	Dem				1	

		3	IO	0	Locp	TempP
Basic noun pi	hrase, continued					
N	vbes Prep NP			2		
H	kd. CL	2		2		
N	CL			2		•
×	ki CL Dem			1		
N	ki Den	2		4		
N	Dom	14	1	15	9	4
N	Loc				2	
X S	NomInt	er .		2	4	
N	Prep H Dem		1			
	PHame	6	•			
	Plane Dem	3		2		
	Pron	364	15	43	1	
	Pron ki CL	1	:			·
	Pron ki NP	1	1		٠	
	Pron Dem	10		10		
	Pron Loc		1			
•	Pron Prep N	*******	-	1	******	
Total basic	noun phrases	510	22	242	36	4 83

	5	10		Locp	Templ	
Count noun phrase				,		
Num Cl	2					
Num Cl N			1			
Num Cl N DN	ame				1	
Nue cX	1	1		1	3	
Nam of Dem				1		
Man	2					
Total count noun physics	4	1	2	2	3	11
					,	
Plurelised noun phrase		2				
tei tang N		2	1			
tai tang tum N						-
			1			
•			•		•	
		2	_ 			9
Total pluralised noun phrases		. E	,			
Pronoun reference phrase		·	- V			
pó N	1				, .	
gá PRamo			1			
préi H N	1					
prél N prél N	1			•		
vai X	5					
vai N Dem			1			
vai Pron Loc	1	2				

	s	TO	a	Loap	TempP
Pronoun reference phrase, contin	- 				
vai N Pron Dem	1				
n po n	1				
N mau vai Dem	1				
Total pronoun reference phrase	11	2	2		11
Ellipsis of the nown phrase head					
GHame				1	
Dem	4		1		
Total instances of ellipsis	4		1	1	(
Prepositional phrase					,
Prop				1	
Prep N				27	-
Prop N N				7	
Prep N N N				1	
Prep N N Dem				3	
Prep N Pron				2	
Prep N vDes				2	
Prop N ki CL	1			1	
Prep N ki CL Dem		-		1	
Prep N Dem			•	10	
Prep Pron				6	
Prep Pron Dem				1	

Total	all:	noun pl	1 7 M . C.			9	2 9	27	254	136	7	953
Total	Total prepositional phrases						<u> </u>	·		97		97
	Prep					Loc	-		• *********	8		•
	Prep				•	Dem				24		
	Prep	mau		kd.	CL					1		
	Prep	vai	N	ki	CL					1		
	Prep	mā	N							1		
Propo	sitio	nal phi	rasė,	. 001	atim	led						
	· · · · · · · · · · · · · · · · · · ·			·····			8	<u>IO</u>	0	Loci	Ten	PP

Chart 7.7 Variety, distribution and frequency of noun phrases in sample text

CHAPTER * VERB PHRASES

8.0 Introduction

The verb phrase (VP) is that part of a clause which occurs following the optional subject (except in the subject-less existive clause) and before the object, indirect object, or complement slots of all normal or major clause types. The verb phrase functions as the (simple) predicate of the sentence.

The verb phrase consists of one or more (main) verbs (Vb) and/or one or two preceding preverbs (pVb), optionally preceded successively by a verbal particle (vPt) and/or a preverbal adverb (pvAdv). All four elements may be present; a main verb or preverb must be present. The verb phrase may thus be summarised as follows (post-hyphenated elements can not be phrase final, hyphenated elements within parentheses indicate a second or third (concatenated) similar element). This is a general formula in that verb phrase types (vP) correspond to the verb class (vP) of the last verb in the phrase, as outlined in the following section.

xVP: pvAdv- vPt- pVb (-pVb) ((Vb-)Vb-)xVb

Each of these verb phrase components will be discussed in the following sections in the reverse of their linear order. Both verb phrase types and main verb subclasses are discussed in 8.1. The last section cites the variety and frequency of the verb phrase in the sample analyzed text.

8.1 Main verbs

Main verbs (Vb) are those elements which alone may fill the verb phrase slot in clauses without depending upon the context. (Preverbs may also occur alone, but the context implies the elliptic main verb.) In the maximal verb phrase main verbs occur last, following preverbs (8.5); the next (non-VP) element of the clause follows the main verb.

There are eight main verb subclasses which correspond to the verb phrase type in which they may occur which, in turn and for the first six listed verb subclasses, corresponds to the maximal or "highest" clause type in which the verb phrase may occur. Figure 9.1 in section 9.0 shows six basic clause types in which the six corresponding verb phrases occur. Lowest in the figure is the intransitive clause in which (and only in which) the intransitive verb phrase occurs; highest in the figure is the quotative clause in which the quotative verb phrase (and only the quotative verb phrase) occurs. But the verb phrase corresponding to any "higher" clause type may occur in any "lower" clause type as indicated by descending arrows in the above-mentioned figure.

(In the examples of Sedang clauses cited throughout the text, if a given verb phrase occurs in a "lower" clause type it is so indicated in the abbreviated syntactic statement following the example (e.g., "T CL w B Vb" indicates a transitive clause with bitransitive verb).)

The eight verb subclasses follow.

Quotative verbs. Only quotative verbs (Q Vb) may occur in the quotative verb phrase (Q VP) which only occurs in the quotative clause (Q CL, 9.1). Q Vbs form a small subclass of verbs which include the following. Each quotative verb may be followed by a direct quote.

ong 'to ask'

khen 'to tell, say'

kreo 'to call'

pa 'to request'

pochan 'to advise, warn'

tia 'to answer'

tôi 'to tell, say'

tomist 'to think, consider'

the 'to command'; of. pVb the 'must' (8.3)

(The distinction between <u>khen</u> and <u>toi</u> is sometimes given as a matter of respect. Younger people <u>toi</u> with older people whereas older people <u>khen</u> with younger people.)

Container verbs. Only container verbs (C Vb) occur in the container verb phrase (C VP). The container clause (C CL, 9.2) is the highest clause type in which the container verb phrase may occur. C Vbs form a small subclass of verbs which include the following. Because the C VP may be followed maximally by a ("contained" or embedded) clause each of the following C Vbs is so illustrated.

- Am a km hme. 'Give, permit me to eat rice.'
 (C CL(T CL))
- Ja a oi u me. 'Take, carry, guide me to live over there.' (C CL(I CL, Loc?))
- Kom kumm preo. 'Weit for child to return.'
 (C CL(I CL w S Vb))
- Kónó a topa xeh. 'Recognize that I am pregnant.' (C CL(Ben Eql CL))
- Lôn pó lo dei. 'Permit, allow you to go out.'
 (C CL(Ben I CL w S Vb))
- Lou ma pei 'bang. 'Release, permit us to pound (rice) together.' (C CL(I CL w T Vb, Locf)
- Hlo ga hiáng pôu. 'See he is already drunk.'
 (C CL(I CL))
- Moni ga hla. 'Quess, suppose, think he is dead.' (C CL(Eql CL))
- Ham eh 'mei. 'be acquainted, familiar he is evil; of. pVb ham 'to know about, do habitually' (8.5)

- Hne pin pe hme. 'Teach us to cook rice.'
 (C CL(T CL))
- 'Nai kia ka monge. 'Know, understand ghosts eat people.'
- Ngan ga oi a toniam. 'Look at, see him (being)
 in the forge.' (C CL(I CL, LocP))
- Fou eh chai klea. 'Dream you have diarrhea.' (C CL(Eql CL))
- Pro en chiang monge lem. 'Do, make you become a good person.' (C CL(EqS CL))
- Tang ga chuat. 'Hear, listen him make noise.'
 (C CL(I CL))
- Va eh preo. 'Want you to return.'; of. preverb

 va 'to be about to' (8.3) and PurPt va 'in

 order to' (10.3) (C CL(I CL w 8 Vb))
- Xau ga lóka ma. 'Be afraid he will eat us.'
 (C CL(T CL w lo-T Vb))
- Ko chok pong xiam kola. 'Get, take a shrew to cut through the bamboo.' (C CL(T CL))

Bitransitive verbs. Only bitransitive verbs (B Vb) occur in the bitransitive verb phrase (B VP). The bitransitive clause (B CL, 9.3) is the highest clause type in which bitransitive verb phrase may occur. B Vbs form a small subclass of verbs which include the following. Because the B VP may be followed maximally by an object noun phrase and an indirect ob-

ject prepositional phrase, each of the following B Vbs is so illustrated.

Chôu bấu tung hngei. 'Place, put - rice in house.' (B CL)

(Hu)hvat pokeang a ko. 'Throw - powder here.'

Kum bau tung hngel. 'Pile - rice in house.'

Lôl ko a 'ngel. 'Leave, abandon - head up high.'

Ta prel tung vo. 'Place, put - the two in a jug.'

Hvang ga tung trap. 'Throw - him into mud.'

Xang klong a kong. 'Slide - the bamboo (cylinder)

onto the arm.'

Semitrensitive verbs. Only semitrensitive verbs (S Vb) occur in the semitrensitive verb phrase (S VP). The semitrensitive clause (S CL, 9.4) is the highest clause type in which semitrensitive verb phrases occur. S Vbs form a small subclass of verbs which include the following. Because the S VP may be followed maximally by an indirect object noun phrase, each of the following S Vbs is so illustrated.

Chai a hagei. 'Return - home.' (S CL)

Kotau Kontum. 'Run - to Kontum.'

Eleh tung hlau. 'Fall - into the bamboo.'

Kleng Ngo Eang. 'Go up - Mount Eang.'

Lam troang. 'Go - on the path.'

Lo hong cham. 'Go out - on the down side.'

Mot truam. 'Enter - the hole.'

Preo pole. 'Return - to the village.'

Siam s ngia pa. 'Approach - to in front of
father.'

Veh a me. 'Return - there.'

Transitive verbs. Only transitive verbs (T Vb) occur in the transitive verb phrase (T VP). The transitive clause (T CL, 9.5) is the highest clause type in which transitive verb phrases occur. T Vbs form a large, perhaps the largest, subclass of verbs which include the following. Because the T VP may be followed maximally by an object noun phrase, each of the following T Vbs is so illustrated.

At home. 'Have - rice.'; cf. pVb at (8.3) and Ex Vb at (below) (T CL)

Ap pom. 'Roast - potatoes.'

Chai klea. 'Sick - intestines.'

Cheh hla mo-es. 'Write - a book.'

Ha rokong. 'Open wide - mouth.'

Hou eh. 'Curse - you.'

En hme. 'Est - rice,'

Ko klong. 'Chop - bamboo.'

Loi a. 'Believe - me.'

Eneng tea. 'Carry - water.'

Ok tea. 'Pour - water.'

Peng chem. 'Shoot - birds.'

Pei chiak. 'Work - field.'

Po nha. 'Hoe - weeds.'

Rôs po. 'Buy - salt.'

Tiu 'bok. 'Follow - priest.'

Um phai. 'Winnow - rice.'

Intransitive verbs. Only intransitive verbs (I Vb) occur in the intransitive verb phrase (I VP). The intransitive clause (I CL, 9.8) is the highest and only clause type in which the intransitive verb phrase occurs. I Vbs form a large subclass of verbs which include the following.

eak 'to defecate'

hea 'to vomit'

hiam 'to breathe'

humm 'to bathe'

iu 'to whistle'

koi 'to sleep'

kochei 'to sneeze'

long 'to sing a lullaby'

hla 'to die'; cf. vAdj hla 'to be dead' (7.1)

mei 'to raim'

ol 'to live'; ef. pVb ol 'to continue to be'
(8.5), Eq Vb ol 'to be'(below)

potê 'to rest'

to 'to laugh'

mah 'to play'

xwong 'to get up'

Equative verbs. Only equative verbs (Eq Vb) occur in the equative verb phrase (Eq VP). The equative clause (Eq CL, 9.7) is the only clause type in which the equative verb phrase occurs. Eq Vbs form a very small subclass of verbs which include the following and define the four equative verb phrases in which they occur.

Eql Vb: # '(the zero copula)'

Eq2 Vb: xe 'to be'

Eq3 Vb: chiang 'to become'; cf. pVb chiang 'to be able to'
(8.3)

Eq4 Vb: $\hat{o}i$ 'to be'; cf. I Vb $\hat{o}i$ 'to live' (see above), pVb $\hat{o}i$ 'to continue to be' (8.5)

Existive verb. Only the existive verb (Ex Vb) occurs in the existive verb phrase (Ex VP). The existive clause (Ex CL, 9.8) is the only clause type in which the existive verb phrase occurs. ("Existive" is taken from Pike and Pike (1974, p. 4.24, 4.27) which, in turn, was taken from Hale (1973).) There is only one member of this subclass of verbs. at 'there is/are'; cf. pVb al (8.5) and T Vb al (above)

8.2 Yerbal concatenation

Main verbs may be concatenated into a series of two, three, or four (and structurally, but not practically, more) adjacent verbs. There are three types of verb concatenation: reduplicative concatenation, simple concatenation, and (a composite of these) complex concatenation.

Reduplicative concatenation. For atylistic or emphatic purposes a main verb may be repeated one or more times. Sometimes this indicates a repeated or prolonged action.

Ga ko ko ko muih. 'He chopped and chopped and chopped (the trees in the) field.' (T CL)

Prei tokat tokat tokat. 'They wreatled and wrestled and wreatled.' (I CL)

Me ga prok prok prok. 'Then he went and went and went.' (Temp, I CL w S Vb)

Simple concatenation. For description of successive actions main verbs may be concatenated together. Most commonly the first verb is a semitransitive verb expressing motion followed by (a) another semitransitive verb, (b) a transitive verb, or (c) a quotative verb.

- (a) chai troh 'return and approach'

 zuong kotau 'get up and run'

 lam lo 'go and exit'

 mot prok 'enter and go'
- (b) lam modro 'go and trade'
 met ou 'enter and drink'
 chu roe 'go down and buy'

kótau peng 'run and shoot'

(c) chu eng 'go down and ask' tak tol 'go up and say'

The main verb 'nai 'to know' is frequently followed by snother main verb with the idea of knowing how to do something.

'nai cheh 'know how to write'

'nai ka 'know how to eat'

But there does not appear to be any restriction upon the verb types which may occur together in this way. The last of the concatenated verbs determines the permitted clause type occurrence (3.0).

pochan the 'warn and command' (Q - Q Vb)

xah tia 'play(fully) answer' (I - Q Vb)

rongel to 'sing and laugh' (I - I Vb)

kri ka 'pick (fruit) and eat' (T - T Vb)

puat xo 'reach in and get' (S - C Vb)

kotau xau 'run (being) afraid'

roxa xau 'nervous and afraid' (I - C Vb)

Concatenation of three main werbs corresponds to these same above types.

chu hóda chai 'go down and flee and return' (S -S - S Vb)

tong mot chai 'carry, enter and return' (T - 3 - 5 Vb)

'nai topul toveh 'know how to speak and return (an answer)' (C - I - I Yb)

Complex concatenation. Complex concatenation consists of the repetition of a main verb with the addition of one or more other main verbs. Or the repeated verb may be the last verb in the series.

tak tak ngan xo 'go up, up, look for and get'
(S - S - C - C Vb)

tiu tiu tiu kleng 'follow, follow, follow, going up' (T - T - T - S Vb)

mot prok prok prok 'enter and walk, walk, walk' (S - S - S - S Vb)

8.3 Preverbs

In the maximal verb phrase preverbs (pVb) follow verbal particles (8.4) and precede the main verb (8.1-2). Preverbs may occur alone as a clause or be the only element of the verb phrase present in a clause (except for pang ti and u, see below), though the absent main verb will be implied from the preceding centext. Semantically preverbs relate to the involvement of the actor in the predication.

The preverbs form a small class which includes the following.

ai 'be definitely'; about 75% of its occurrences are in negated verb phrases; of. T Vb ai 'to have' and Ex Vb ai 'there is/are' (8.1); ai in its combined uses is the sixteenth most frequent word in the 27,437-word text occurring 290 times.

Gá ta ái hla. 'He did not die.' (I CL)
'Bok ái hlo á ôh. 'The foreigner did not

Oh ta ai hou. '(He) did not curse.' (I CL w T Vb)

'Bok xối ái loh ôh. 'The priest did not permit it.' (I CL w C Vb, fPt)

Bus chu ngan 'noi. '(You) try and go down and see.' (Imp I CL w C Vb, fPt) bus ks 'try to est'

'to get' and S Vb cha 'return' (8.1)

Pin cha ka rokai. 'We can est boar.' (T CL)

A pa cha oi rotro. 'I cannot be happy.'

(Eq4 CL)

chia 'to do or become increasingly so'

Ga chia lem ta. 'She became increasingly

more beautiful.' (Eql CL, Compr)

chiang 'to be able to'; cf. Eq Vb chiang 'become' (8.1)

Me ga on ta chiang pro kan pole. 'But he wasn't able to work as a village chief.'

(Temp, T CL w C Vb)

- Ga oh ta chiang to meh oh. 'It wasn't able to cross by itself.' (Refl I CL w S Vb, fft)
- da 'to continue to'

 Eh da dea lôi. 'You continue to pour (it)

 out.' (Imp I CL w T Vb)
- hông 'to crave'

 A hông ka ka. 'I crave to eat fish.' (T
- kmi 'to be able to'; always used with a negative particle
 - A kmi 'blei oh. 'I'm unable to win.' (I CL w T Vb, fPt)
 - Ga ta kai koi. 'He was unable to sleep.'
 (I CL)
- khên 'to dare to'
 - Ga khên ch ci tung ro ko. 'He did
 not dare to stay in this basket.' (I CL,
 fPt), (I CL, Loc?)
 - Eh hôm khên? 'Do you dare (to stay here)?'
 (I CL)
- khoh 'should, ought to, to permit'; is always used
 in the negative, e.g. oh to khoh 'taboo'
 or interrogative a hom khoh 'is it permitted?' except in affirmative response
 (10.7) khoh 'not taboo'

- Vai oh ta khoh ka cho me nah. 'It was taboo for them to eat dog back then.' (T CL, fPt)
- Khoh oh ka kóteó tung ngo me. 'It's not permitted to eat sugarcane on that mountain.' (I CL, fPt), (T CL, Loc?)
- klei 'to finish, conclude, stop, end, after'

 Klei po nha neo vai pote. 'After hoeing

 weeds some more, they rest.' (TempF(T CL,

 fPt), I CL)
 - Ma klei róngsi kô. 'We are finished singing.' (I CL, Locp)
- ling 'to do habitually or continuously'

 " A pa ling u rongei xua o a u krou. 'I

 cannot continue singing because my child
 is crying.' ((I CL), CausConj(I CL))
- wo-eam 'to do with difficulty, to try hard to'

 U hiat dei. Xei ko ah mo-eam ka dei ket

 dro. '(She) forgot again. In the after
 noon (she) tried hard (to remember) to

 eat the dro frog.' (Refl I CL w T Vb)

 (TempP, Refl T CL)
- hmm 'to know about, to do habitually'; cf. C Vb

 hmm 'be acquainted with' (8.1)

 On hmm bong dei a xiam trong. 'He always

 urinated at the base of the eggplant.'

(Refl I CL, LOCP)

- Hmm hlo vai pôu 'di'do. '(He) was accustomed to see them drunk all the time.' (C CL (I CL, fPt))
- ôi 'to continue, remain'; observed to occur only before Ex Vb ai 'there is/are' (8.1); cf. I Vb ôi 'to live', Eq Vb ôi 'to be' (8.1)
 - No kô ôi ai pea pai to rôi xo. 'Now there are remaining two or three flies only.' (Temp, Ex CL, fPt)
 - A hom of at drou neof 'Is there still more winef' (Ex CL, fPt)
- páng 'to be able to'

 Gá oh ta páng hla. 'He couldn't die.'

 (I CL)
 - Ja ga hiang pang topui. 'His grandmother could speak.' (I CL)
 - Ge on te pang pei chiek. 'He couldn't work in the fields.' (T CL)
- páng ti 'to be unable to'; may not occur
 without a following main verb
 Kónou á páng ti lem ti kó. 'My husband
 can't be good like this.' (Eql CL, ManP)
 Páng ti péng. '(She) was unable to fill
 (it).' (I CL w T Vb)

- póxiam 'to start to, to begin to'

 (la póxiam mot neô. 'Re began to go in some

 more.' (I CL w S Vb, fPt)
 - í póxiam rong. 'The rooster begins to crow.'
 (I CL)
- hro 'to be able to'; usually used in the negative
 Pin hro 'blei oh. 'We are unable to win.'

 (I CL w T Vb, fPt)
 - Eh ta hro ja. 'You are unable (to do it), grandmother.' (I CL w elided verb, Voc)
- the (sometimes athe, a Bahnarism) 'must, be necessary'; of. Q Vb the 'to command' (8.1)
 - Pin the dea loi hodroi. 'We must pour (it)
 out first.' (I CL w T Vb, DesP)
- u 'still, continue to'; may not occur without a following main verb; cf. N u 'place', PurPt u 'in order to'
 - U ai hmou. 'There are still stones.' (Ex CL)
 - Ga u hist dei. 'She continued to forget.'

 (Refl I CL w T Vb)
- uan 'to do something quickly, for the first time'
 Uan pe pe hme 'noi. '(He) quickly cooked
 rice.' (T CL, fPt)
- va 'to be about to, to want to'; of. C Vb va 'to

want' (8.1) and PurPt va 'in order to'
(10.5); in some sentences the distinction between this pVb and the C Vb is
difficult to discern; va in its combined
uses is the twelfth most frequent word
in the 27,437-word text, occurring 333
times

Kong wa mei. 'It (the land) is about to rain.'
(I CL)

A va rongei - hom ha. 'I want to sing too.'
(I CL)(Resp, fPt)

Va. '(I) want (to eat).' (Freg)

Two preverbs may occur together in a verb phrase. The following have been observed together.

peng u

Ga pa pang u chai. 'He wasn't able to return.' (I CL w S Vb)

va cha .

Pó-ia va cha ka 'nang. '(I'm) just about

able to eat (it) for sure.' (I CL w T Vb,

fPt)

8.4 Verbal particles

In the maximal verb phrase verbal particles(vPt) follow preverbal adverbs (8.5) and precede preverbs (8.3). Verbal particles must be followed by either a preverb and/or a main

verb (except for the responses himm and ta hai). Semantically the verbal particles relate to the state of the predicate: affirmation (including tense), denial and question.

Also, two verbal particles are negative imperatives (though some final particles are also imperatives).

Verbal particles form a small class which includes the following.

- a hai, hai 'yet?', a hai choi 'ever yet?';

 with stress on hai the preceding a is

 frequently elided; the answer requires

 either de, hiang, ta hai, choi

 (see below) or the response (hai)

 'nhiah (10.7)
 - A hai lôi. 'Have (you) quit yet?' (I CL w
 - Eh a hai shoi ka xei? 'Have you ever eaten herse(meat)?' (T CL)
- a hôm, hôm '(yes-no question marker)'; with

 stress on hôm the preceding a is frequently elided; the answer requires
 either a response hôm or ô-ôh (10.7),

 oh ta (see below), or an affirmative
 statement
 - Eh a hom hlo rotam me. 'Have you seen that boy?' (TCL w C Vb)
 - Hom xet 'Is that sot' (Eq2 CL)

choi, hai choi, ta ai choi 'never', oh ta

choi la lai 'never ever'; used as an

answer to an a hai question (see above)

Ga choi hou a. 'He never cursed me.'

(T CL)

Toring me a hai choi lam oh. 'I've never gone to that erea.' (I CL w S Vb)

de 'currently (progressive action)'; cf. N

de 'middle', TempP de 'while' (10.1)

Plong me de ai ha. 'That cance still

exists.' (COEmp Ex CL, fPt)

Préi me de tokat. 'Those two are wrestling still.' (I CL)

completion; used in answer to an a hai question (see above); hiang may occur as a response fragment or may, by ellipsis, be sentence final (12.9), else must be followed at least by a preverb or main verb

A hiang am eh pokeang. 'I already gave
you the powder.' (Ben T CL w C Vb)
ma ta 'don't (imperative)'; cf. Imp CL (ll.l)
No ko eh ma ta hnap troang a hou. 'Now
don't you block my path, okay?' (Temp,
Imp T CL, fPt)

oh pa, pa 'not (negative)'; oh is stressed, pa unstressed--usually oh is elided with consequent loss of a stress peak Vai nou pa nhong o oh pa va ga. 'The parents and relatives don't want him.' (T CL w C Vb)

A pa 'nai ti lai. 'I don't know why.' (I CL w C Vb, Man?)

ôh ta, ôh ti, ôh tu, ta, ti, tu 'not (negative); oh is stressed, ta/ti/tu unstressed -- sometimes oh is elided with consequent loss of a stress peak; ti is an infrequent variant of ta; as the only case in Sedang of vowel assimilation to a following consonant, tu occurs only before the C Vb or pVb va; cf. fPt oh (10.4) with which oh ta frequently cooccurs; as a two-(phonological)word sequence on ta is the second most frequent two-word sequence in the 27,437-word text, occurring 178 times, and as a three-word sequence occurs in the first two most frequent sequences: oh ta ai 40 times and oh ta 'nai 32 times Oh ta ai bau i ka. There is no rice to eat. (Ex CL, PurP)

Á ôh ti 'nai. 'I don't know.' (I CL w C Vb)

Eh khến ôh tu va á. 'You say (you) don't

want me.' (C CL w Q Vb(T CL))

Pin ta lem cha. 'We are not well.' (Eql CL)

pôi ta 'don't (imperative)'; cf. Imp CL (11.2)

Pôi ta am ma ôh. 'Don't give us two (any).'

^ (Imp Ben I CL w C Vb. fPt)

Eh pôi ta ka a. 'Don't eat me.' (Imp T CL)

ta hai 'not yet'; used as a negative answer to

a hai (see above)

A ta hai pe hme. 'I have not yet cooked rice.' (T.CL)

Verbal particles may not be compounded. Whereas in all examples cited in this section a main werb (or vAdj) follows the verbal particle, in 8.3 there are several examples of a preverb following the verbal particle.

The negative particle oh, which occurs as oh pa, oh ta, oh ti and oh tu and as the negative final particle oh (10.4), is the seventh most frequent word in the 27,457-word text, occurring 478 times.

The negative particle ta, which occurs as ma ta, ôh ta, ta, pôi ta and ta hai, is the tenth most frequent word, occurring 355 times. The verbal particle hiang is the ninth most frequent, occurring 376 times.

8.5 Preverbal adverbs

In the maximal verb phrase preverbal adverbs (pvAdv) are initial, followed by verbal particles (8.4). Preverbal adverbs may not occur alone in the verb phrase but must be followed at least by a preverb or main verb. As noted below, some preverbal adverbs may precede the subject.

Preverbal adverbs are a small class which includes the following.

hómun 'also, usually'; hómun infrequently occurs before the subject

Mgin hómun kódê eh. 'We will also kill you.'
(T CL)

Mge me ga honun on ta ai lian. 'That
person usually does not have money.'
(T CL)

hlik 'necessary, needful'; observed to occur only before va

Ga hlik va ka. 'He had to eat.' (I CL w T Vb)
hmeô pa 'unnaturally, unaccustomed, atrangely'
Rmeô pa to. '(He) laughed unnaturally.'
(I CL)

haou pa 'with great desire'

Hanou pa ti rongei. '(I) really don't want to sing.' (I CL)

A know pa chiang meh ti ko. 'I really want to be like this.' (Refl Eq3 CL, Man?)

- neo 'to have just'; of. fft neo 'again, more'
 (10.4)
 - Ga neo loi. 'He just (now) believed.' (I CL w T Vb)
- hnối 'immediately, right away'; frequently

 cooccurs with fPt <u>hlối</u> 'immediately'

 (10.4)
 - Vai va kôdê ga me ga hnôi preo hlôi.
 'They were about to kill him so he returned immediately.' ((T CL), ResConj(I
 CL w S Vb, fPt))
- re 'slowly but surely'

 Kong re xei. 'Afternoon came on slowly.'

 (I CL)
 - Ton re some ropam. 'After a long time (he) slowly (approached) mearer the field house.' (AdvEmp S CL w elided S Vb, Quant)
- xuan 'also'; infrequently may occur before the
 subject
 - Kónou xuan huam hông pêng. 'The husband also bathed further up(stream).' (I CL, Loc?)

Preverbal edverbs may not be compounded. The examples above cite instances of preverbal adverbs occurring before verbal particles, preverbs, and main verbs.

8.6 Variety and frequency of verb phrases

Chart 8.1 lists 14 different verb phrase forms which occur 715 times in the analyzed sample of continuous text. Each of these verb phrase forms is included in the description above; there are other combinations, however, which are structurally possible (some, but not all, of which have been observed elsewhere) but not occurring in this limited sample.

Single main verbs occur most often (65%). Three different 2-component phrases—verb-verb, preverb-verb, and verbal particle-verb—each occur about 10% of the time. All other verb phrase types occur infrequently. There is no observed restriction of verb phrase type with any of the clause types (chapter 9).

					No.
				Vb	459
				AP AP	70
				Ap Ap Ap	3
			p Vb	Vъ	67
			pVb	Vb Vb	2
	•	YPt	pVb	Ap	16
		vPt ·	pVb	AP AP	1
	PVAGV	v?t	pVb	₹ b	1
·	DAYGA		pYb	Vb	2
			pVb pVb	VD .	1
		vřt		VD.	85
		v Pt		AP AP	2
	pvAdv	VPt		₹ b	1
	pvAdv			AP	5
Totale:	DAVGA 8	VPt 106	pVb 89	Vb 637	
	•		pVb pVb 1	Vb Vb 75	
,				Ve Ve Ve 3	
; ;-	9	106	90	715	715

Chart 8.1 Variety and frequency of verb phrases in sample text

CHAPTER 9 BASIC CLAUSE TYPES: NUCLEAR ELEMENTS

9.0 Introduction

component of the next higher syntactic level, the sentence (chapter 15). Clause structure relates the predicate or verb phrase (chapter 8) to the various nuclear nominal phrases (chapter 7) as well as to other peripheral clause level fillers (chapter 10). Clauses also occur embedded in the basic noun phrase (7.1). This chapter describes the occurrence of nuclear clause elements in the basic clause types and chapter 10 the peripheral elements whereas chapter 11 describes variations—both permutations and transformations—of the nuclear and peripheral elements of these basic clause types. (Nuclear elements are the more independent part of the construction whereas the peripheral elements are the dependent part.)

There are eight major clause types as determined by the number, order, and/or type of nuclear nominal phrases. Only the subject noun phrase is (optionally) common to all types (except the existive clause), though its semantic significance may be different (cf. 9.1-6 versus 9.7).

Six basis clause types are interrelated by verb phrase

occurrence potential. ("Potential" implies an element is absent only by ellipsis (12.9) and is otherwise considered essential for grammatical completeness whereas "optional" indicates an element may be absent and is not essential for grammatical completeness.) The verb phrase known by the same name as these six clause types occurs in that clause type and of any lower—but not higher—clause type. Figure 9.1 shows these interclause relationships; "higher" and "lower" clause types refer to relative position of clause types in this figure. The quotative clause in the "highest"

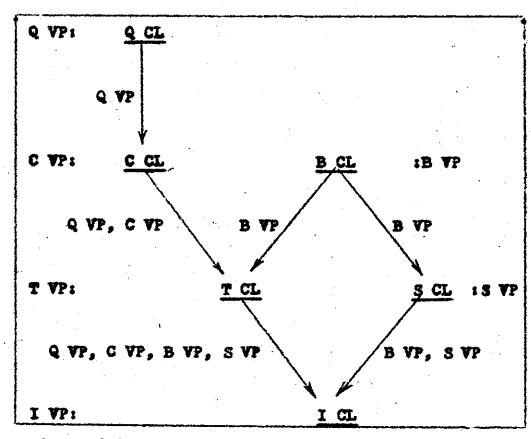


Figure 9.1 Interclause relationships and verb phrase potential

clause type; the intransitive clause is the "lowest" clause type. Quotative verb phrases (Q VP) occur in the quotative clause (Q CL), as well as in the container clause (C CL), the transitive clause (T CL), and the intransitive clause (I CL). Container verb phrases (C VP) occur in the containor clause, the transitive clause, and the intransitive clause. Bitransitive verb phrases (B VP) cocur in the bitransitve clause (B CL), as well as in the transitive clause, the semitransitive clause (S CL), and the intransitive clause. Transitive verb phrases (T VP) occur in the trensitive clause as well as in the intransitive clause. Semitrensitive verb phreses occur in the semitrensitive clause as well as in the intransitive clause. But intransitive verb phrases occur only in the intrensitive clause. These six clause types are discussed in 9.1-6. The two other basic clause types are the equative clause (Eq CL, 9.7) and the existive clause (Ex CL, 9.8). In 9.9 the frequency of these basic clause types in the sample analyzed text is indicated.

Some of the examples used in this chapter are imperative clauses which, though included among the clause transformations of chapter 11, do not differ by order of constituents from the corresponding basic clause.

9.1 Quotative clause

as actor filled by a nown phrase, and, by definition, each of the following in order: a predicate (Pred) filled by a quotative verb phrase (thus, potentially, a quotative verb), and an object (O) as (direct) quotation filled by any free syntactic unit from a discourse down to a single word. There is usually a juncture or brief pause preceding the object quotation, and the quotation has an intonation independent of that of the main clause; this juncture and intonation distinguish the quotative clause from other clause types in the cases where the quotation may otherwise be an indirect rather than a direct quotation. The quotative clause thus has the following form.

Q CL: (S:NP-) Pred:Q VP -0:Quote

(Some quotative verbs are listed in 8.1.)

Kia khen, "Kébó thé?" 'The ghost said, "Who

commanded?" (Q CL(I CL w Q Vb))

Me rótam me kreó, "A-Pia." 'Then that fellow

called, "A-Pia." (Temp, Q CL(Voc))

About 10% of all quotative clauses in the analyzed text state the addresses; such clauses are here included among the benefactive clauses (see 11.2).

9.2 Container clause

The container clause (C CL) -- so named because it includes an embedded or "contained" clause (Thomas 1971.72) -has an optional subject as actor filled by a noun phrase, and, by definition, each of the following in order: a predicate filled by a quotative verb phrase or a container verb phrase (thus, at least potentially, a quotative or container verb), and an object as statement filled by a clause. The contained clause may be of any clause type, including another container clause. With a quotative verb in the container clause the subject of the contained clause is not present if it has the same referent as that of the container clause, but is present if it doesn't have the same referent; this is an indirect quotation. With a container werb in the container clause the contained clause usually has an explicit subject; a conjoining of two container main verbs would be verbal concatenation (8.2). There is no juncture preceding the contained clause. The container clause thus has the following form:

C CL: (S:NP-) Pred:Q VP/C VP -O:CL

Examples are cited below with each type of permitted verb phrese. (Some container verbs are listed with following clauses in 8.1.) Q VP: Eh khên ôh tu va a. 'You say (you) don't want me.' (C CL w Q Vb(T CL))

> Á tang vai tối klá hiáng ka chối. 'I hear (that) they say a tiger has killed a deer.' (C CL w Q Vb(C CL w Q Vb(T CL)))

A tang ai vai toi va cheng. 'I hear there are those (who) say (they) want gongs.' (C CL w Q Vb(T CL))))

C VP: A pro ch lem. 'I'll make you good.' (C CL(Eql CL))

Tang hiang am prei ka hme. 'Tang already gave (or permitted) the two to eat rice.' (C CL (T CL))

Ga 'nai meu kia ka mongé. 'He knows those ghosts eat people.' (C CL(T CL))

9.3 Bitrensitive clause

The bitrensitive clause (B CL) has an optional subject as actor filled by a noun phrase and, by definition, each of the following in order: a predicate filled by a bitransitive verb phrase (thus, potentially, a bitransitive verb), an object as undergoer filled by a noun phrase (i.e. any of the phrases described in chapter 7 except the prepositional phrase), and an indirect object as locative filled by a prepositional phrase. The bitransitive clause thus has the following form:

B CL: (S:MP-) Pred:B VP -O:MP -IO:PrepP

(Some bitransitive verb phrases with following object and indirect object are listed in 6.1.)

B VP: Pin chôu beu tung hagei. 'We put the rice in the house.' (B CL)

Ga hvang ga tung trap. 'He threw him in the mud.'

9.4 Semitrensitive clause

The semitransitive clause (S CL) has an optional subject as actor filled by a noun phrase and, by definition, each of the following in order: a predicate filled by a bitransitive verb phrase or semitransitive verb phrase (thus, potentially, a bitransitive verb or a semitransitive verb), and an indirect object as locative filled by a prepositional phrase in the case of bitransitive verb phrases or by any noun phrase in the case of semitransitive verb phrases. The semitransitive clause thus has the following form (asteriaks identify cooccurrence restrictions):

S CL: (SiNP-) Predib VP*/S VP** -IO:*PrepP/**NP

(Some semitransitive verb phrases with following indirect object prepositional phrase are listed in 8.1.)

B VP: Ga chou tung hngel. 'He put (it) in the house.'
(S CL w B Vb)

Lôi a 'ngei. 'Leave (it) up high.' (Imp S CL w B
Vb)

S VP: 'Ma kleh tung rótôh. 'Some fell in bamboo.' (S CL)

Kódra kótra pópéng tónei. 'The in-laws stepped above the earth.'

À chu kong leo. 'I'm going down to Laos.'

Vai to hugei ko. 'They climb up to the house.'

9.5 Transitive clause

The transitive clause (T CL) has an optional subject as actor filled by a noun phrase and, by definition, each of the following in order: a predicate followed by a quotative verb phrase, a container verb phrase, a bitransitive verb phrase, or a transitive verb phrase (thus, potentially, a quotative, container, bitransitive, or transitive verb), and an object as undergoer filled by a noun phrase. The transitive clause thus has the following form:

T CL: (S:NT-) Pred:Q VP/C VP/B VP/T VP -O:NP

(Some transitive verb phrases with following noun phrase are listed in 8.1.)

Q VP: Á va tối tódróang. 'I want to tell something.'
(T CL w Q Vb)

'Ma khan is. 'Some say is.'

C VP: Ga pro komus. 'He made a scraper.' (T CL w C Vb)

Xeang veang ga me. 'The spirit helped him.'

Va hlo ro. '(You) want to see a cow.'

B VP: Eh hveng pókeang ki me. 'You throw that powder.'
(T CL w B Vb)

T VP: Vai kra pei chiak. 'The old people work the fields.'
(T CL)

Koa me kuka ting. 'The turtle bit the tail.'
Ga to'dou moi poleang honeng. 'He broke one tooth.'

9.6 Intrensitive clause

The intransitive clause (I CL) has an optional subject as actor followed by a noun phrase and, by definition, only a following predicate filled by a quotative verb phrase, a container verb phrase, a bitransitive verb phrase, a semi-transitive verb phrase, a transitive verb phrase, or an intransitive verb phrase (thus, potentially, a quotative, container, bitransitive, semitransitive, transitive, or intransitive verb). The intransitive clause thus has the following form:

I CL: (S:NP-) Pred:Q VP/C VP/B VP/S VP/T VP/I VP

(Some intransitive verb phrases are listed in 8.1.)

Q VP: Khen ti me. '(He) said (it) like that.' (I CL w Q Vb, Manr)

Tak tol tal. 'Go up there and tell (it).' (Imp I CL w Q Vb, Loc?)

C VP: No préi u hlo ti me neo. 'The two same (it) like that again.' (I CL w C Vb, ManP, fPt)

Á tu va ôh. 'I don't want (it).' (I CL w C Vb,

fPt)

B VP: Loi. 'Quit (it).' (Imp I CL w B Vb)

S VP: No prei u mot. 'Then the two went in.' (Temp, I CL w S Vb)

Kuan gá me kótau kótau. 'His child ran and ran.'
(I CL w S Vb)

T VP: Vai chối neo. 'They plant more.' (I CL w T Vb, fPt)

Oh ta loi oh. '(I) don't believe (it).' Gá oh ta ái. 'He doesn't have any.' (I CL w T Vb)

I VP: A topui. 'I talk.' (I CL)

Ga hie. 'He is scratched up.'

Mónge koi. 'A person aleeps.'

Kis kotong. 'The ghost stumbled.'

Chart 9.1 summarises the above six basic clause types and indicates the occurrence in them of the various verb phrases. Figure 9.1 above is another means of indicating the occurrence of the verb phrase subtypes in the various

clause types.

CL type	Nuclear slots							
Q	(St MP-)	Pred:Q	V P	•			-0:Que	te
С	(S: RP-)	Prediq	VP/C	V P			-O:CL	
B	(S: NP-)	Pred:		В	VP		-0: NP	-IO:PrepP
S	(8: MP-)	Pred:		*B	VP/** 5	VP		-IO:Preppe/MPee
T	(51 KP-)	Pred;Q	WP/C	VP/B	VP/	T	VP -O:NE	•
I	(St MP+)	Pred:Q	V?/ C	VP/B	VP/S V	P/T	VP/I VP	•

Chart 9.1 Occurrence of verb phrase types and nuclear elements in the various basic clause types (asterisks indicate concourrence restrictions)

9.7 Equative clauses

Equative clauses (Eq CL) state in the complement (Co) a character of the (sometimes potential) subject. There are four types of equative clause differing by (1) the occurrence requirement of the subject, (2) the specific equative verb phrase, (5) the complement filler possibilities, and (4) imperative transformation possibilities (11.2). Each of the four types of equative clauses is named for the equative verb occurring in it.

Zero verb equative clause. The zero verb equative clause (Eql CL) has an obligatory (thus unique among all clause types) subject as item filled by a noun phrase, and, by defi-

nition, a following predicate filled by a verb phrase with the "zero" (\emptyset) copula (Eql VP) and a following complement as character of subject filled by a noun phrase or verbal adjective. The zero verb equative clause thus has the following form:

Eql CL: S:NP - Pred:Eql VP - Co:NP/vAdj

The sero verb equative clause may not be transformed to an imperative. (Some verbal adjectives are listed in 7.1 as they function as verbal descriptives in the noun phrase.)

Co: MP: Pong Hlung ko konou ga. 'This Pong Hlung is her husband.' (Eq. CL)

Môi ngế A-Pia. 'One person was A-Pia.' Gá trum tómei. 'It was an earth hole.' Inai pa A-Pia me Pó-ông. 'A-Pia's father's name is Po-ong.'

Ga pang ti moi hring nge. 'He wasn't one hundred people.'

Co:vAdj: Bou tuam. 'The rice was ripe.'

Koa pang ai tei. 'The turtle was definitely strong.'

Ge hiang tuan. 'He was smart.'
Pole ga me ro. 'That village of his was happy.'

xê 'be' equative clause. The xê 'be' equative elause (Eq? CL) has an optional subject as item filled by a noun phrase and, by definition, a predicate filled by a verb phrase with the xê equative verb (Eq? VP) and an optional complement as character of subject filled by a noun phrase, verbal adjective, adverbial phrase (AdvP; 10.3), or clause. Most (95%) of the xê 'be' equative clauses contain a negative or interrogative in the verb phrase. This clause type may not be transformed to an imperative. The xê 'be' equative clause thus has the following form:

Eq2 CL: (S:NP-) Pred:Eq2 VP (-Co:NP/VAdJ/AdVP/CL)

Co:MP: Gá ôh ta xê móngé. 'He's not a person.' (Eq?

Co:vAdj: Ké me a hôm xê kan? 'Is that thing big?'
Co:AdvP: Ôh ti xê ti kố. '(It's) not like this.'
Ôh ta xê trối chố pin. '(It's) not like oùr
dogs.'

Co:CL: Ga xê hneng tea ôh. 'He's not (one who) carried water.'

Minimal: Hom xet 'Is (that) so?'

Oh ta xe. '(It) is not (like that).'

Xê oh. '(It) is not (like that).'

chiang 'become' equative clause. The chiang 'become' equative clause (Eq3 CL) has an optional subject as item filled by a noun phrase and, by definition, a predicate filled by a verb phrase with the chiang equative verb (Eq5 VP) and an optional complement as character of subject filled by a noun phrase or verbal adjective. The chiang 'become' equative clause may be transformed to an imperative (11.2). This clause thus has the following form. (Cf. pVb chiang 'to be able'.)

Eq5 CL: (S:NP-) Pred:Eq5 VP (-Co:NP/vAdj)

Co: HP: Kóxet hiang chiang monge. 'The mushroom had become a person.' (Eq3 CL)

Pokeeng chiang kola. 'Powder became bamboo.'

Co:vAdj: Ga hiang chiang kro. 'He became rich.'

Ki me ga chiang pleng ta. 'Like that he became smarter.' (AdvEmp Eq5 CL. Comp)

Minimal: Oh ta chiang. '(It) didn't become (that).' (Eq5 CL)

Chiang. '(It) became (that).'

oi 'be' equative elause. The oi 'be' equative clause (Eq4 CL) has an optional subject as item filled by a noun phrase and, by definition, a predicate filled by a verb phrase with the oi equative verb (Eq4 VP) and an obligatory

complement as character of subject filled by a verbal adjective. Thus this clause has uniquely only one filler for the complement. It may be transformed to an imperative (11.2). (Cf. I Vb $\frac{1}{01}$ 'to live'.) The $\frac{1}{01}$ 'be' equative clause thus has the following form:

Eq4 CL: (SiNP-) Prod:Eq4 VP - Co:VAdj

Ga ta oi reh. 'He wasn't alive.' (Eq. CL)
Rotam me oi 'nai. 'That fellow was down low.'
The four equative clauses are compared in Chart 9.2.

Clause type		Muclear	elements	Eq.
Eql CL	S:NP -	Pred:Eql V	-Co: HP/vAdj	ø
Eq2 CL	(S: MP-)	Pred:Eq2 VI	(-Co: NP/VAGJ/AdVP/CL)	xê .
Eq3 CL	(S: MP-)	Pred:Eq3 V	P (-Co: MP/vAdj)	chian
Eq4 CL	(S: MP-)	Pred:Eq4 VI	P -Co: VAGJ	ó1

Chart 9.2 Equative clauses

9.8 Existive clause

The existive clause (Ex CL) effirms or denies the existence of something. There is only one verb which occurs in the existive clause: ai 'there is/are'. The existive clause has, by definition, a predicate filled by a verb phrase with the existive verb ai (Ex VP) and an optional complement as item filled by a noun phrase or clause. The existive clause thus has the following form:

Ex CL: Pred:Ex VP (-Co:NP/CL)

CO: HP: Xuan al konou. 'There is also a husband.' (Ex CL)

Ai troang lam a ko. 'There is a (going) path here.' (Ex CL, Loc?)

Oh ta ái tódróang xôi ôh. 'There is not sin.' (Ex CL, fPt)

Co:CL: Ál kóbó 'blei gá ôh. 'There was no one who could beat him.' (Ex CL(T CL), fPt)

Sap nah ôh ta ái kóbố khến ti me. 'For a long time there hasn't been anyone who spoke like that.' (TempP, Ex CL(I CL w Q Vb), ManP)

Me ai prei tohoù dei po. 'Then there were those two who cursed each other.' (Temp, Ex CL(Recip I CL w to-T Vb))

Minimal: Ái. 'There is.' (Ex CL)

Ôh ta ái. 'There isn't.'

Ái Ôh. 'There isn't.'

9.9 Frequency of basic clause types

Chart 9.3 indicates the frequency of the above basic clause types in the sample analyzed text. The most common

CL types:	Verb phrase types:						
	Q V P	C VP	B VP	S VP	Ab L	Ab I	Total
d cr	20						20
C CL	23	28					51
B CL		. •	6				. 6
S CL			2	38			40
T CL	5	55	5		115		181
I CL	10	20	0	14	54	72	170
Total	59	103	15	52	169	72	468
Eq CL							93
Ex CL							20
Total .							581

Chart 9.3 Frequency of verb phrase types occurring in basic clause types in sample text (holes in chart indicate clause types in which the verb phrase type does not occur for structural reason; a "O" indicates lack of an example in the sample text

combination of clause type and verb phrase type is the transitive clause with transitive verb phrase (20%). The most common cluase types are the transitive clause (31%) and intransitive clause (29%). The most common verb phrase type is the transitive verb phrase (29%).

CHAPTER 10 PERIPHERAL CLAUSE ELEMENTS

10.0 Introduction

The nuclear syntactic elements of clauses were discussed in chapter 9. Clauses also have optional non-nuclear or peripheral elements which add detail to the clause and are discussed in this chapter. The peripheral elements generally occur independent of clause type but are integrally structured with the clause and include both prenuclear (10.1) and postmuclear (10.2-4) elements. The only prenuclear peripheral element is the temporal phrase (TempP). The postmuclear peripheral elements include the locative phrase (LocP), the adverbial phrase (AdvP), and final particles (fPt). A clause may thus have the following form.

CL: (Temp?-) Nuclear elements (-Los?) (-Adv?) (-f?t)

The order of these peripheral elements within a clause is not rigid; though the above seems to be the norm, permutations do occur. Each of these peripheral slots may be duplicated one or more times within a clause. Note also that chapter il discusses variations of basic clause types entailing semantic-motivated reordering of some of the peripheral elements dis-

cussed in this chapter. The various peripheral elements may, structurally, cooccur; but practically, none, one, or two are more common within a single clause.

10.1 Temporal phrase

The optional temporal phrase (Temp?) is the only prenuclear peripheral clause element apart from emphatic phrases in some clause variations. The temporal phrase establishes the temporal context of the clause predication. The temporal phrase may be a temporal (word) (Temp), a temporal demonstrative (TempDem), a temporal noun phrase (TempNP), or a subordinated temporal expression (SubTempExp). Though the temporal phrase normally occurs initially and is prenuclear, the temporal phrase, like other peripheral elements without rigid word order requirements, sometimes occurs postnuclear. Approximately one in four clauses in text have an initial temporal phrase.

Temporals. The temporals (Temp) which may constitute a temporal phrase form a small class of words and phrases and include the following.

a hódról 'at first'

la lai 'when?'

no ko 'now'; occurs rather than the TempDem me

po-ia 'in a little while'

ton 'for a long while'

The final particle neo 'more, again' (10.4) may be used

after a temporal as an intensifier or a marker of subsequent action.

no ko neo 'and now'
po-ia neo 'and then again, in a little while'

Temporal demonstrative. There are four temporal demonstratives (TempDem) which partially overlap the general demonstratives (7.1) and final particles (10.4). Temporal demonstratives also occur in the basic noun phrase (7.1).

ah, ko ah 'in the future, following, next'; cf.

fPt ah (10.4); ah in its combined uses is the
seventeenth most frequent word in the 27,437word text, occurring 285 times

ko 'this, now'; cf. Temp no ko

tent (independent) clause of conditional sentences (13.1); of. Dem me (7.1), fPt me (10.4), CondConj me (13.5), and ResConj me (13.5)

nah 'in the past, former, previous'; cf. fPt nah (10.4)

Temporal noun phrase. A temporal noun phrase (TempNP) used as a temporal phrase may be any basic (but time reference) noun phrase (7.1) usually requiring a following temporal demonstrative (TempDem). Time reference noun phrases include the following.

hai 'day'

hai ko 'today'

hai nah 'yesterday'

hai hmôi ah 'day after tomorrow'

hai hmôi nah 'day before yesterday'

(hai) so ah 'tomorrow'

bai ting, hai potê 'Sunday'

hai môi 'day one: Monday', similarly the

days of the week through Saturday

hai kozo môi 'day number one: first day',

similarly the dates of a month

hai de 'noontime'

póla mang ting 'week'

póla mang ting ko 'this week'

khé 'month'

khe nah 'last month'

khe môi 'month one: January', similarly

the months of the year

kózei 'in the afternoon'

xei ko 'this afternoon'

la 'time'

la lai 'when?'

la me mah 'that former time'

rôb 'perdod'

roh nah 'ancient times'

roh ko 'these times'

rono 'season'

rono kong mei 'rainy season' so ah hacî 'eventually, at some time in the future'

Subordinated temporal expression. A subordinated temporal expression (SubTempExp) consists of a temporal subordinator (TempSub) with a following temporal demonstrative, (time reference) basic noun phrase or clause. With a following clause the temporal subordinator may be elided. Temporal subordinators (TempSub) form a small class which includes the following.

de 'during, while'; of. vPt de 'currently, (progressive action)'

dreng 'while'; of. Prep dreng 'with' (7.5)

klei 'after'; cf. pvb klei 'to finish'

póla 'while'

sap 'from'; cf. Prep sap 'from'

trôh 'approaching, when, towards'; cf. S Vb
trôh 'to approach'

Temporal subordinators with temporal demonstratives:

de me 'during that (time)'

klei me 'after that'; functions as paragraph
marker; eleventh most frequent two-word sequence in the 27,457-word text occurring 67
times

sap nah 'from former times'

Temporal subordinator with basic noun phrase:

de khe ko 'during this month'

klei honam me 'after that year'

trôn hai ki me 'towards that day, near that day'
Temporal subordinator with clause:

de ga oi tung kuat 'while he stayed in the

dreng pin km ah 'while we eat (in the future)'
póla nôu pei bau 'while mother pounds rice'
trôh bau tuam neô 'when the rice ripened some
more'

Elided temporal subordinator with clause:

Hiang at plo pret to plo tung chea. '(After)
having plo (fruit) they put the plo in the
basket.' (SubTempExp:(T CL), B CL)

Kong hiang mei Nou lam ra krei. 'The afternoon having come, Nou went to trap squirrel.'

(SubTempExp:(I CL), T CL)

Sometimes the temporal phrase functions semantically in a logical sense, as follows.

therefore, thus'; cf. ResConj me (13.5)
klei me neo 'furthermore'; cf. fPt neo
'more, again' (10.4)

The temporal phrase may thus be summarized:

Temp?:

Temp/TempDem/TempMP/SubTempExp

TOMDNP:

bMP - TempDem

SubTempExp:

TempSub - TempDem/HP/CL

10.2 Locative phrase

The optional locative phrase (LocP) is a postmuclear peripheral clause element. In the locative emphasis clause (11.5) the locative phrase occurs clause initial. The bitransitive and semitransitive clauses (9.5-4) have an indirect object as locative filled by a prepositional phrase. The semitransitive clause locative position may, in addition, be filled by any noun phrase. Whereas the bitransitive and semitransitive clauses include locative phrases by definition, all other clause types may occur with a peripheral locative phrase to establish the location, goal, recipient or means of the clause action. Locative phrases are locatives (Loc, 7.1) or prepositional phrases (Prepp, 7.5). Less than 5% of clauses in text have a peripheral locative phrase.

The locative phrase may thus be summarized:

Locf: Loc/PropP

À u tro ila tung ngia. 'I continually caught thorns in the face.' (T CL, LocP:(PrepP))
Ga ai todroang xôi 'bang A-Pia me. 'He did a wrong thing with that A-Pia.'

- Hóba kế pópêng kóxah kố. '(He) carries things upon this shoulder.'
- Ga hnai ngan tung vo me. 'He looked (for it) in that jar.' (I CL w C Vb, LocP:(PrepP))
- Prei oi a hngei hou. 'You two stay in the house, okay?' (Imp I CL, Loch: (Preph), fpt)
- Ai pôlê vai hông xuap. 'There is a village of theirs in the area down there.' (Ex CL, Loc?: (Prep?))
- Ge de koteu tai. 'He's running up there.' (I CL w S Vb, Loch: (Loc))
- Vai va koi cham. 'They want to sleep down there.'
 (I CL, Locp:(Loc))

10.3 Adverbial phrase

The optional adverbial phrase (AdvP) is a postmuclear peripheral clause element. In the adverbial emphasis clause (11.1) the adverbial phrase occurs clause initial. The adverbial phrase modifies the predication of the verb phrase and subsumes the following semantic types: manner phrase (NanP), similitive phrase (SimP), comparative phrase (CompP), descriptive phrase (DesP), quantitative phrase (QuanP), purposive phrase (PurP), and volitional phrase (VolP). Between 10-15% of all clauses in text contain an adverbial phrase.

Adverbial phrases may thus be summarized:

AdvP: ManP/SimP/CompP/Desp/QuanP/PurP/VolP

Manmer phrase. A manner phrase (ManP) describes the manner in which the predication is sustained. A manner phrase consists of one or two manner particles (ManPt) followed by a demonstrative or nominal interrogative. There are three manner particles: t1, to, ki (cf. RelPt ki (7.1)). The manner phrases include the following.

time 'like that'; most frequent adverbial

phrase and third most frequent two-word sequence occurring about 170 times in 27,437

words of text

to me, to ti me, to to me, ki me 'like that'
ti ko, ti to ko 'like this'

ti lai 'how, why'; sixth most frequent two-word sequence in text occurring 128 times

ki klai 'what, for what'

The particle \underline{t} 1 is the sixth most frequent word in the 27,437-word text, occurring 521 times. About 70% of these occurrences are the ManPt \underline{t} 1, about 30% the negative vPt \underline{t} 1 (8.4).

The manner phrase may thus be summarized:

ManP: ManPt (-ManPt) - Dem/NomInter

Ela khen ga ti me. 'That ghost spoke to him like that.' (Ben I CL w Q Vb, AdvP: (ManP: (ManPt, Dem)))

A ti 'nai rongei ti lai. 'I don't know what to sing.' (I CL, NanP: (ManPt, NomInter))

Eh kotul loang ti lai. 'Why did you trip on the stick?' (T CL, Man?)

Hiang tai to me. '(That) is all--like that.'
(Eql CL, ManP)

Similitive phrase. A similitive phrase (Simp) relates the predication to a similar event. A similitive phrase consists of the similitive expression (Sim) moi tiah 'the same, the same as' optionally followed by a noun phrase or clause, or of a similitive particle (Simpt) troi 'like' obligatorily followed by a noun phrase or clause. The relator particle ko may occur before the noun phrase. The similitive phrase may thus be summarised:

Simp: $sim/simpt-(-k\hat{o}-)-(MP/CL)$

similitive expression alone:

U hlo loang moi tish. '(He) still saw the trees the same (as before).' (T CL w C Vb, SimP: (Sim))

With noun phrases:

Eh ve hle moi tieh ngin. 'You will die the same as us.' (I CL, Simp:(Sim, NP))

Ga ai tei trôi tómeam è ôh. 'He wasn't strong like other things.' (Eql CL, SimP: (SimPt, NP), fPt)

Eh pro trei ga. 'You do (it) like him.' (I CL w C Vb, SimP: (SimPt, NP))

Ga ko loang troi nah. 'He chopped down trees like before.' (T CL, SimP:(SimPt, NP))

Oh ta xe troi cho pin. '(It) is not like our dogs.' (Eq2 CL, SimP:(SimPt, NP))

A hôm ái kế ki ê neổ reh trối kổ hme?

'Is there anything else more nourishing like rice?' (Ex CL: (Co: (Eql CL, Simp: (Simpt ko N)))

With olauses:

Yak xoa ga topui môi tiah hen monge topui.
'Ris chest hairs talked the same as many people talking.' (I CL, SimP:(Sim, I CL))
Cho trôi ga tôi. '(It) is correct just like he says.' (Eql CL, SimP:(SimPt, I CL w Q Vb))

Comparative phrase. A comparative phrase (Compf) compares the predication or the predication as modified by a following descriptive or quantitative phrase (see below) to other events. All comparative phrases have initially the comparative par-

ticle (Comp?t) ta 'more'. If the compared event is, by ellipsis, not included in the clause then ta occurs alone.

Gá 'mai ta. 'He knows more.' (I CL w C Vb, CompP: (CompPt))

Ga chia lem ta. 'She became increasingly more beautiful.' (Eql CL, CompP:(CompPt))

Else the comparative particle to is followed by the RelPt $k\hat{o}$ and a noun phrase.

Ga o ta kô val koa me. 'He was more marvelous than those (other) turtles.' (Eql CL, Comp?: (Comp?t, RelPt, PRef?))

Monge ki 'mei lui ta kô pu tung pole me. 'The evil person surpassed all those in that village.' (I CL, CompP:(CompPt, RelPt, bNP))

The comparative phrase may thus be summarized:

CompP: CompPt -(NelPt NP)

There is no superlative particle; the superlative sense is given by the quantitative phrase quantifier o 'very much' (see below) or by the comparative phrase to $k\hat{o}$ val 'more than they'.

Descriptive phrase. A descriptive phrase (Desr) adds descriptive color to the predication. Unlike most other adverbial phrases there is no particle used to introduce the descriptive

phrase. A descriptive phrase consists of a verbal adjective (vAdj, 7.1) optionally preceded by either a verbal particle (vPt, 8.4) and/or a preverb (pVb, 8.5). Not all verbal particles and preverbs, however, may occur in the descriptive phrase.

- Mónge ki me ka lem. 'That person bit (it) well.'
 (I CL w T Vb, DesP: (vAdj))
- Eh oi klai a ko. 'What are you doing here?'
 (I CL. Desp:(vAdj), Loop)
- Eh lam hódrói, a lam kó'nai. 'You go first,
- I'll go last.' ((I CL w S Vb, DesP:(vAdj))x2) Ga chai hiang honge. 'He returned already a

long way.' (I CL w S Vb, DesP: (vPt, vAdj))

- Ga ka dei kunn ôh ta be. 'He's eating his child by himself (but it) is not enough.' (Refl T CL, DesP:(VPt, vAdj))
- Chuô rah plo a hai tai? 'You (father-in-law)
 separate the plo fruit (are you) yet finished?'
 (T CL, DesP:(vPt, vAdj))
- On ou ten me hiang va tai. 'He's drinking that water (which is) already about gone.' (T CL, DesP: (VPt, pVb, vAdj))
- Vai ka rokai oh ta kai tai. 'They eat boar (but)
 are unable to finish it.'

The descriptive phrase may thus be summarized:

DesP: (VPt) (pVb) vAdj

The descriptive phrase may occur among the nuclear elements if there is an object or indirect object, though a verbal particle or preverb may not occur in the descriptive phrase in this position.

Prei trôn sehe ropam. 'The two came near the field house.' (S CL, DesP:(VAdj))

Vai kodrai pe lem tum ke me. 'The women cook well all those things.' (T CL, DesP:(VAdj))

Kla hiang ka tai chôi me. 'The tiger ate all that deer.'

Quantitative phrase. A quantitative phrase (Quant) indicates the extent of the predication. There are three types of quantitative phrase: A quantifier phrase (Quant), a count noun phrase (CNP, 7.2), and a quantitative particle phrase (Quant).

(1) The quantifier phrase (Quant) indicates the degree of attainment of the predication and consists solely of a quantifier word (Quant). The quantifier may occur between a preverb and main verb and thus modify the preverb specifically. There are two quantifiers:

ia 'a little'

o 'very mich'

- Ga kótau reng ia. 'He runs a little fast.' (I CL w S Vb, DesP, QuanP: (Quanf))
- A robeng ka ka o. 'I crave to eat fish very much.' (T CL, Quanf: (Quanf))
- Módel ia. '(Sing) a little stronger.' (I CL w mó-vAdj, Quanf:(Quanf))
- Klei kong mei ah vai kodrai va e lam drah tung tea. 'Later after it rains the women want very much to go look (for fish) in the water.' (Temp?, I CL w T Vb, Quan?:(Quanf), Loc?)
- Roh vai kra mah vai va o xak to lai. 'In old times they wanted very much the hair of the lai monkey.' (TempP, T CL, QuanP:(Quanf))
- (2) The count noun phrase (cMP) may occur as a quantitative phrase.
 - Pin roe mam moi xoh pen hring. 'We buy meat one time (for) two hundred (pinstres).' (T CL, QuanP:(cNP), QuanP:(cNP))
- (5) A quantitative particls phrase consists of the quantitative particle (Quantit) i 'until' followed by either (1) a verbal adjective (7.1) or a quantitative word (cf. PurPt i 'in order to').

Quantitative words (Quan) form a small class which ineludes the following and thus overlaps partially the general plural marker, quantifier, and verbal adjective word classes. hen 'many, a lot'

ia 'a little'

tai 'entirely'

Pin men monat hngei i kre. 'We pat the house wall until (it's) firm.' (T CL, QuanF:(QuanFt, vAdJ))
Frei pe kodrai i chen. 'The two cooked the woman

A toi i ia. 'I told a little.' (I CL w Q Vb, Quanp: (Quanpt, Quan))

until (she was) well cooked.

Prei km km i tei. 'The two ate the fish up entirely.' (T CL, QuanP: (QuanPt, Quan))

A ve je pin zo i hen. 'I want to take us to get a lot.' (C CL(I CL w C Vb), QuanP:(QuanPt, Quan))

The quantitative phrase may thus be summarized:

Quant: QuantP/cMP/QuanPtP

QuanfP: Quanf

Quanttr: Quantt - vAdj/Quan

Purposive phrase. A purposive phrase (Pur?) indicates the purpose for the predication. A purposive phrase consists of a purposive particle (Pur?t) followed by a subjectless (embedded) clause-though usually only the main verb of the clause. There are three purposive particles (Pur?t):

- in order to; cf. Quantt i 'until'
- u 'in order to'; cf. pVb u 'still, continue to' (8.5), N u 'place'
- to' (8.3), C Vb va 'to want' (8.1)

 The purposive phrase may thus be summarized:

Purp: Purpt - CL

- Oh ta si kochai i ka. 'There aren't vegetables
 to eat.' (Ex CL, Purf:(Purft, I CL w T Vb))
 Ga xo haou u hvang. 'He got a stone (in order)
 to threw.' (T CL w C Vb, Purf:(Purft, I CL w
 B Vb))
- Kie ki me ga khen hneng tee ve ke ga. 'That
 ghost said (he'd) carry water in order to est
 him.' (C CL w Q Vb(T CL), PurP:(PurPt, T CL))

 Xôu prei o ga xo plai tong, plai xôh ha i ta
 tung kóchoi chai a hngei ve ke. 'Xou and his
 younger sibling got tong fruit and xoh fruit
 also to put in the basket and return home in
 order to est.' (T CL w C Ve, fPt, PurP:(PurPt,
 S CL w B Ve)), (S CL, PurP:(PurPt, I CL w T
 Ve))

Volitional phrase. A volitional phrase (VolP) indicates that the predication is done in accordance with the wishes of some party. The volitional phrase consists of the volitional particle (VolPt) hmang to 'according to, according as' followed by a clause usually containing the container verb va 'to want, desire'. Thus:

VolP: VolPt - CL

Rongei hmang to chuo va. 'Sing according as you (sister-in-law) want.' (I CL, Volp: (Volpt, I CL w C Vb))

10.4 Final particles

The non-obligatory final particles (fPt) occur clause final. Final particles serve various semantic functions as noted below. Two or three final particles may cooccur as described below. About one in five clauses have a final particle. The particle $k\hat{o}$ occurs before many of the final particles without semantic significance. (Cf. RelrPt $k\hat{o}$ (7.5); $k\hat{o}$ in its various uses occurs about once for every one hundred words in text.) Final particles form a small class which includes the following.

sh, ko ah '(future marker)'; of. TempDem ah '(future marker)'
Ga tio pin ah. 'He will follow us.' (T CL,

fPt)

- Pin ka môi ro kô ah. 'We will eat one basketful.'
- ai, ko ai 'to have just'; ai occurs once for every one hundred words in text

Eh a hôm hìo rotam lam troang kô ai.
'Have you just seen a fellow going on
this path?' (C CL(S CL), fPt)

'di'do 'always, all the time'

Ga kok 'di'do. 'He is always crazy.' (Eql

CL. fPt)

- e '(question marker)'; occurs infrequently

 Yuan me e. 'The Vietnamese, huht' (Freg:(NP),

 fPt)
- eh -a weak question marker, 'huh?, is that so?',
 accompanied by rising intonation; cf.
 Excl eh (10.6)
 - Xau chf '(You're) afraid, huh?' (I CL w C Ve, fPt)
- hã, kô hã 'also'; may occur non-finally or among nuclear elements

Á hiang prei ha. 'I'm also tired.' (Eql CL, fPt)

Ga hiang pôk ko kô hã. 'He is also gray haired.'

Á ôk ta hêng hã ôu koa. 'I don't crave

either smoking a pipe. (TCL, fPt)
he -occurs only as his he (see below)

heh -exclamatory or intensifier, accompanied by

rising intonation; of. Excl heh

Mónge trối pa kô heh. 'A person like

us two!' (Frag:(NP, SimP, fPt))

Ta khen heh. '(You) don't dare, huh.' (Frag: (VPt, pVb, fPt))

Ga hiang lem hoh. 'He was really beautiful!'
(Eql CL, fPt)

hia, kô hia, hia he, hia ha 'also, et cetera, and so forth, and the like', may subsume more than one clause

Me pin cha ka rókai, chi, kê tung kong, chối, hia ha. 'Then we can eat boar, barking deer, jungle animals, deer, and so forth.' (Temp, T CL, fPt)

Pin ta mo, pin tongie, him he. 'We're sick, we have malaria, etc.' ((Eql CL)x2, f?t)

Ga krui tung ngia, tung môh, tung ma, tung tuan ga hia. 'He was scratched in the face, on the nose, in the eyes, on his ears, etc.' (I CL, (Loop)x4, fPt)

hoh, hoh 'of course!

Rongei troi kong pin hôh. 'Sing like (we do

- in) our country, of course! (Imp I CL, SimP, fPt)
- Oi ti loang hoh. '(It) lives in a tree,
 of course!' (I CL, LocP, fPt)
- hou -mild imperative, 'okay?'; cf. T Vb hou 'to curse'; appropriate affirmative return comment is the Resp ou (10.7)
 - Kh kôm a hngei kố hôu. 'You wait at this house, okay?' (Imp I CL w C Vb, Loc?, fPt)
 - Mgan hou. 'Consider this, okay?' (Imp I CL w C Vb, fPt)
- kôh 'of course, certainly'

 Ma va lam kôh. 'Of course we want to go!'

 (I CL w S Vb, fPt)
- hlái 'very'

 Gá u rókê hlái. 'He's very clever.' (Eql

 CL, fPt)
- hloi 'immediately, right away'; frequently cooccurs with pvAdv hnoi 'immediately, right away' (8.5)
 - Ge pak pin hloi. 'It stung us right away.'
 (T CL, fPt)
 - Ge haoi oi weh tung kong, haoi chiang kia hloi. 'He right away went to live in the jungle and immediately became a ghost.' (Refl I CL, Loc?)(Eq3 CL, fPt)

- me, ko me -very weak semantically, perhaps suggests slight resignation; of. Dem me 'that' (7.1) (with which the final particle may be confused), Temp me 'that, then' (10.1), ContConj me 'but' (15.3), ResConj me 'thus' (13.5)
 - Val tang rotam preang kotmu me. 'They heard Preang run--.' (C CL(I CL w S Vb), fPt)
 - Hiang klei ba me. '(I) have also already
 finished--.' (Frag: (VPt, pVb, fPt, fPt))
- brief responses
 - Cho me. 'That's right, of course.' (Eq 1 CL, fPt)
 - Va me. '(I) certainly want to.' (I CL w C Vb, fPt)
- nah, kô nah 'formerly, (past tense marker)'; cf.

 TempDem nah 'in the past, formerly' (10.1)

 'Bok the a rongel nah. 'The foreigner told

 me to sing.' (C CL w Q Vb(I CL), fPt)

 Ngin mot ling kô nah. 'We went in the army
- neo, kô neo 'again, more'; of. pvAdv neo
 'to have just' (8.5)

back then. ' (S CL, fPt)

Prei toko neo. 'The two fought some more.'
(I CL w to-T Vb, fPt)

- ok neo, ka neo. '(He) poured more. (He)
 ate more.' ((I CL w T Vb, fPt)x2)
 ag, hi 'nang, pang 'nang, ko 'nang -intens
- 'nang, hi 'nang, pang 'nang, kô 'nang -intensifier
 - Me pin hla 'nang. 'And we will really be dead.'
 (Temp, I CL, fPt)
 - Gá ton 'nang. 'He (was away) a real long time.' (Eql CL, fPt)
 - Eh va ka ka pang 'nang. 'You really want to eat fish.' (T CL, fPt)
 - Gá 'ló pah hi 'nang. 'He was certainly a smake.' (Eql CL, fPt)
- 'nôi, kô 'môi 'right away, the next thing,

 immediately'; two of three occurrences of

 'nôi are in imperative clauses (11.1)
 - Pro a lem 'nôi. 'Make me beautiful right away.' (Imp Cl CL(Eql CL), fPt)
 - Á pé hme 'nôi. 'I'll cook rice next.' (T CL, fpt)
 - Eh kôm a kố 'nổi. 'You wait here.' (Imp I CL w C Vb, Lock, flt)
 - Kôm kố 'nổi hôu. 'Weit here, okay?' (Imp I CL w C Vb, fPt, fPt)
- 'nheh 'finally, ultimately'
 - Ga kua dei rópie kô u kốtê neô u hla

'nheh. 'He soraped this tongue until it

broke more and (he) finally died. (Refl T CL, (PurP, fPt)x2)

- o 'okay?', a curt retort
 Po'lang o. 'Bye now, okay?'
- ôh 'not, (negative intensifier)'; one in two occurrences are in clauses with negative verbal particles ôh ta, ôh pa, pôi ta, ma ta (8.4)
 - Me ôh ti 'nai ôh. '(I) do not know.' (Temp, I CL w C Vb, fPt)
 - Pôi ta ám má ôh. 'No, don't give (any) to us.' (Imp C3 CL, fPt)
- pe -intensifier; sometimes occurs in imperative clauses, possibly a Bahnarism
 - Ga lam ke muih pe. 'He went to cut (his) field.' (T CL, fPt)
 - Chu tối pe. 'Go down and tell (them).'

 (Imp I CL w Q Vb, fPt)
- pôih 'finally'; frequently a discourse closer, perhaps a Bahnarism
 - To me poih a toi. 'Like that, that's all,
 I tell.' (AdvEmp I CL w Q Vb, fPt)
- ra -intensifier, 'certainly'
 - Monge troi pin ra. 'A person like us certainly.' (Frag: (NP, SimP, fPt))
 - Hlik wa ka proi me ra. 'Really want to eat

those two.' (T CL, fPt)

- te, ko te 'only, simply, plainly'
 - A topul 'bang chu 'bang cho me te. 'I only talk with the pigs and with the dogs.' (I CL, (Locy)x2, fpt, fpt)
 - A koi môi mang tê. 'I slept there one night only.' (I CL, QuanP:(cNP), fPt)
- xe 'as you know'
 - Valuang del a kong ko ze. 'They slide (them) on their arms, as you know.' (Refl SCL, fPt)
- To 'only'; when modifying a noun phrase object or complement frequently cooccurs with a particle (classifier?) to preceding the noun phrase
 - Ka trong me xo. '(He) only ate that eggplant.'
 (T CL, fPt)
 - Que on ta oi xo la lai. 'He didn't live
 only ever: i.e., he never stopped working.' (I CL, fPt, Temp)
 - Tung khê ai to prei xo. 'On the moon there is only sand.' (LocEmp Rx CL, fPt)
 - Pin xau to kia tung kong xo. 'We're afraid only of ghosts in the jungle.' (T CL w C Vb, Locp, fPt)

yoh, yôh, kô yoh 'certainly, of course'; a Bahnarism

> Klei me prei me xuan ôh ta cha koi 'bang hã yôh. 'After that those two also weren't able to sleep together, of course.' (TempP, I CL, fPt, fPt)

The above final particles may cooccur in pairs; the following pairs have been observed.

ah hã, kô ah hôu, ah neố, ah tê
hã me, hã ra, hã yôh
hah 'nang
hiã ah, hiấ hã, hiấ hế, hiấ me, hiấ neố
me ah, me nah, me pẽ, me ra, me tê
kô nah yôh
neố hoh, neố hôu, neố me, neố ở, neố pẽ
'nang heh, 'nang me, 'nang yôh
'nôi hôu, 'nôi tê

kô tê hiế, tê hôu, tê me, tê neô, tê kô tê

Three final particles may cooccur, though only two types
of combination have been observed: (1) initial me ai (fourth
most frequent two-word sequence in the 27,457-word text occurring 142 times, though some such me may be Dem me) and (2)
final bôu, as follows.

me ai ra, me ai me, me ai ha he hia hou, ah neo hou

ôh me

CHAPTER 11 VARIATIONS OF CLAUSE TYPES

11.0 Introduction

Chapter 9 described the nuclear elements of the various basic clause types and chapter 10 the peripheral elements. This chapter indicates variations of the basic elauses. Two types of variation eccur: permutation (11.1) and transformation (11.2). The permuted clauses are permutations of the clause elements, both nuclear and peripheral, of the basic clauses, whereas the transformed clauses are transformations of any of the basic or permuted clause types.

11.1 Permited clauses

Permuted clauses involve both postpositional and prepositional permutation of clause elements. The subject may be postposed, whereas the object, complement, locative, and adverbial phrases may be preposed.

In that these permuted clauses are permutations of the basic clauses, a two-dimentional matrix of clause types results in which one parameter is the basic clause type and the other the permuted clause type. Chart 11.1 presents this matrix and certain structural holes; resultant clause types thus are: postposed subject quotative clause, postposed sub-

Permuted clause	Basic clause types:							
types:	Q	C	В	S	Ť	1	Eq	Ex
Norm (chapter 9)	x	x	x	x	x	x	x	X
Postposed subject	X	x	x	X	x	X	x	NO
Object/complement emp.	×	x	x	MO	x	MO	X	X
Locative emphasis	x	x	*	x	x	x	x	X
Adverbial emphasis	x	x	x	X	x	X	X	x

Chart 11.1 Matrix of permuted clause subtypes ("x" indicates structural possibility; "HO" indicates structural impossibility; and "X" indicates subtype occurs in data)

ject container clause, etc.; object emphasis quotative clause, etc.

Postposed subject clause. The postposed subject clause (pS CL) makes explicit the subject of the clause, seemingly, in cases where the already elided subject (cf. subject phrase ellipsis, 12.9) is determined by the speaker to require being made explicit. The postposed subject clause, rather than having the subject before the verb phrase, postposes the subject until after the nuclear clause elements, though its position among peripheral elements is not rigid. All basic clause types except the xe 'be' equative clause (Eq2 CL) and the existive clause may be permuted to the postposed subject clause. The resultant clauses are known as the postposed subject intransitive clause (pS I CL), etc.

The postposed subject clause may thus be summarized as follows; permuted word order is indicated in the second line.

ps cL:
$$s - Pred - (0) - (10) ...$$

Order: 1 2 (3) (4) ---> 2 (3)(4) 1

Ngam eh. 'Look--you.' (pSubj I CL w C Vb)

Ti va klai ha monge rotoh. 'What does he also

want--the bad person?' (pSubj T CL, fPt)

Hiang tai klong me. 'They're all gone--the bamboo sections.' (pSubj Eql CL)

Object and complement emphasis clauses. The object and complement emphasis clauses (OEmp CL, CoEmp CL) emphasize the object of quotative, container, bitransitive, and transitive clauses or the complement of equative (excluding the xe 'be' Eq2 and oi 'be' Eq4 CLs) or existive clauses. In an object (or complement) emphasis clause the object (or complement) is permuted to the first or pre-subject slot of the nuclear clause. The object (or complement) phrase may also ecoccur in its normal position. The resultant clauses are known as the object emphasis transitive clause (ObjEmp T CL), etc.

The object and complement emphasis clauses may thus be summarized:

OEmp CL: (S) - Prod - 0 - (IO) ...

Order: (1) 2 3 (4) --73 (1) 2 (3) (4)

CORMP (Eql/Eq3) CL: S - Pred:Eql VP/Eq3 VP - Co ...

Order: 1 2 3 ---

3 2 1 (3)

COEMP Ex CL: Pred - Co ...

Order: 1 2 --- 2 1

OEmp CL: Ga pa xeang weang ga me. 'He--the father spirit helped him.' (OEmp T CL)

Ke me ga ai. 'Those things he has.' (OEmp T CL)

Ko ga me prei lôi drea peang a 'ngei. 'Her head

they placed on the shelf up high. ' (OEmp B CL)
Kia ki ŝ ko a ta 'nai i hen. 'This other ghost

I don't know much about.' (OEmp T CL with C Yb. QuanP: (QuanPt. Quan))

CoEmp CL: Rotam Hrai La inai ga. 'Youth Hrai La is his name.' (CoEmp Eql CL)

Trumm ga pa ai. 'His hole wasn't any more.'
(COEmp Ex CL)

Locative emphasis clause. The locative emphasis clause (Lockep CL) emphasises the location of the predication, whether the locative phrase is a nuclear element of a bitran-

sitive or semitransitive clause or a peripheral element of some other clause. In a locative emphasis clause the locative phrase is permuted to the clause initial position. A locative phrase may also cooscur in its normal position. The resultant clauses are known as the locative emphasis transitive elause (Locker T CL), etc.

The locative emphasis clause may thus be summarised:

- A me ta 'blei koa. 'Over there (he) didn't beat the turtle.' (Lockup T CL)
- A kô kia ka môngê a kô. 'Here a ghost ate a person here.'
- Tung hugel at konal. 'In the house there are rats.' (Lockep Ex CL)

Adverbial emphasis clause. The adverbial emphasis clause (AdvEmp CL) emphasizes an adverbial aspect of the predicate of any basic clause type. In an adverbial emphasis clause the adverbial phrase is usually permuted to the clause initial position although it may also occur between the subject and predicate. An adverbial phrase may also cooccur in its normal position. A final particle may also be prepositioned

following the emphatic adverbial phrase. The resultant clauses are known as the adverbial emphasis intransitive clause (Advemp I CL), etc.

The adverbial emphasis clause may thus be summarized:

AdvEmp CL: (S) - Pred - (0) - (I0) + AdvP (fPt)

Order: (1) 2 (3) (4) 5 (6) ----

$$5 (6)(1) 2 (3)(4)(5)(6)$$

or: 1 5 (6) 2 (3)(4)(5)(6)

- Ti lai gá hôm xôk 'báng vai. 'Why, why did he fool around with them?' (AdvEmp I CL, Locp)
- Ti me veang pam ga u hla. 'Like that (they) together pounded her to death.' (AdvEmp T CL, PurP)
- Ropap ga mot tung trap. 'Like a flash he entered into the mud.' (AdvEmp 3 CL)
- Trôi tuan pin tómiat gá hlo ti me. 'Like our minds thought, he saw (it) like that.' (AdVEmp: (SimP:(SimPt, I CL w Q Vb)), I CL w C Vb, ManP)
- To me pôih á tối me. 'Like that--that's all--I speak.' (AdvEmp, fPt, I CL w Q Vb, fPt)
- Kódrai gá rókê pe drôu. 'His wife skillfully cooks wine.' (AdvEmp T CL)

11.2 Transformed clauses

permuted clauses and involve both additive and substitutive transformations. The echo subject clause, the imperative clause, the benefactive clause, the reflexive clause, the reciprocal clause, and the focus clause entail additive transformations by which a syntactic element is added to (or repeated in) the basic clause, whereas the interrogative clause entails a substitutive transformation by which a specific word is substituted for that of some syntactic element already in the basic clause.

In that these transformed clauses are transformations of both basic and permuted clauses, these transformations function as matrix multipliers of the clause types shown in the matrix of Chart 11.1. Chart 11.2 presents the matrix (of Chart 11.1) as multiplied by each of the four matrix multipliers, indicating the possibility or impossibility of occurrence structurally and the (rare) instances of occurrence in the sample analyzed text.

Echo subject clause. The echo subject clause (as CL) either emphasizes the subject or clarifies the subject by amplifiation. The echo subject clause is a transformation of a basic or permuted clause (except the postposed subject clause), repeating or "echoing" the subject after all other muclear and peripheral clause elements. The repeated subject

Matrix multiplier			E	asic	cla	use	type) 8 :	
Clause transfor- mation type:	Clause permutation type:	Q	C	В	S	T	I	Eq	Ex
Echo subject	Unpermuted Postposed subj. Obj./Comp. emp. Locative emp. Adverbial emp.	X NO X X	NO X X X	X NO X X	X NO NO X X	X NO X X	X NO NO X	X NO X X	NO NO NO NO
Imperative	Unpermuted Postposed subj. Obj./Comp. emp. Locative emp. Adverbial emp.	X X X	X X X X	X X X X	X X NO X X	X X X X	X X NO X	XXXX	† NO † † † †
Bene- factive	Unpermuted Postposed subj. Obj./Comp. emp. Locative emp. Adverbial emp.	X X X X	NO NO NO NO	NO NO NO NO	NO NO NO NO	XXXXX	X X NO X	NO NO NO NO	100 100 100 100
Reflexive	Unpermuted Postposed subj. Obj./Comp. emp. Locative emp. Adverbial emp.	X NO X X	X NO X X	X NO X X	X NO X X	X NO X X	X NO X X	X NO X X	NO NO NO NO
Reciprocal	Unpermuted Postposed subj. Obj./Comp. emp. Locative emp. Adverbial emp.	X NO X X	X NO X X	X NO X X	X NO X X	X NO X X	X NO X X	NO NO NO NO	NO NO NO NO
Pocus	Unpermuted Postposed subj. Obj./Comp. emp. Locative emp. Adverbial emp.	X X X X	XXXXX	X X X X	XXXX	X X X X	X X X X	X X X X	NO NO NO NO
Inter- rogative	Unpermuted Postposed subj. Obj./Comp. emp. Locative emp. Adverbial emp.	X NO •	X NO	X NO *	X NO NO *	X NO *	X NO NO	X NO *	X NO *

Chart 11.2 Matrix of transformed clause subtypes ("x" indidicates structural possibility; "X" indicates subtype occurs in data; "MO" indicates structural impossibility; "*" indicates interrogative element must correspond to permuted element)

phrase is either identical to the nuclear subject phrase or is an expanded clarification of it. The resultant clauses are known as the echo subject intransitive clause (eS I CL), etc.

The echo subject clause may thus be summarized:

- Ga hiang lui ba ga. 'He has also already finished--he.' (egubj I CL, fPt)
- Gá hiáng páng kótau kúan gá me. 'He is already able to run--his child there.' (egubj I CL w S Vb)
- Gá môi ngề gá me. 'He is a person--he.'

 (eSubj Eql CL)

Imperative clause. The imperative clause (Imp CL) expresses a command or request. All basic and permuted clause types (except the zero and xê 'be' equative clauses (Eql and Eql CL) and the existive clause (Ex CL)) may be transformed to the imperative. The verbal particles ma ta 'do not' and pôl ta 'do not' are negative imperatives (8.4); there is no "positive" imperative particle. The imperative syntactic elements do not always occur in imperative clauses; thus some statistical syntactic features of imperative clauses

should be noted.

- (1) Only about one in three imperative clauses has an explicate subject which is usually the pronoun the 'you' or po 'you all'. Contrastively, over 70% of all basic clause types have explicit subjects.
- (2) About one in two imperetive clauses has the final particle hou or 'noi (10.4) or the compounded final particles 'noi hou. hou is used only in imperative clauses; 'noi usually, but not always, occurs in imperative clauses. The resultant clauses are known as the imperative intransitive clause (Imp I CL), etc.

The importaive clause may thus be summarized as follows; probability figures indicate likelihood of occurrence of the above element(s).

Lam tôi và hôu. 'Go and tell father-in-law, okay?' (Imp Ben I CL w Q Vb)

Am à tum tédroang pokeang 'nôi. 'Give me all

kinds of magical powder. (Imp Ben T CL)

Ek agan a ko. 'You look here.' (Imp I CL w C Vb, Loc?)

Kôm a kô 'nôi hôu. 'Wait here, okay?' (Imp I CL w C Vb, Lock, flt, flt) Lôi. 'Quit (it).' (Imp I CL w B Vb)
Hó-ùi. 'Melp (me).' (Imp I CL w T Vb)
Pin nổ kố pổi ta trối vai kra nah neó.

'Now we must not (do) like the former old people any more.' (Temp, Imp I CL w elided I Vb, Simp, fpt)

Other imperative clauses are illustrated in the fol-

Benefactive clause. The benefactive clause (Ben CL) specifies the beneficiary or recipient of the predication. The benefactive clause has a benefactive phrase (BenP) inserted immediately following the predicate verb phrase of a quotative, transitive, or intransitive clause. The resultant clauses are thus known as the benefactive quotative clause (Ben Q CL), etc.

The benefactive phrase consists of a pronoun, kinship term (Kin), or other animate noun (ank), and may optionally be preceded by the relator particle $k\hat{o}$.

The benefactive clause may thus be summarised:

Ben CL: (S) - Pred - BenP - (O) ...

BenP: (ko -) Pron/Kin/ank

In clauses with the quotative verb phrase the benefactive phrase identifies the addresses.

Q CL: Vai khen ga, "Eh lam kiklai kong ko." 'They said to him, "What are you doing walking in this country?": (Ben Q CL(S CL, Manp))

Prei tia ga, "Hom." 'Those two answered him,
"Okay." (Ben Q CL(Resp))

A toi ko pa, "Hiang tai." 'I say to father,
"It's all done."! (Ben Q CL(Frag of Eql CL))

T CL: A va tôi eh môi tódroang. 'I want to tell you one matter.' (Ben T CL w Q Vb)

A tol eh todrang 'mang. 'I tell you the truth for sure.' (Ben T CL w Q Vb, fPt)

I CL: Á chu tối gá. 'I'll go down and tell him.'
(Ben I CL w Q Vb)

Kreo tai tang pole. 'Call all the villagers.'
(Imp Ben I CL w Q Vb)

The benefactive phrase does not occur in container clauses in that the subject of the contained clause is the beneficiary of the predication. However container verb phrases in "lower" clause types may occur with the benefactive phrase.

T CL: Ngin am eh pokeang. 'We give you the powder.'
(Ben T CL w C Vb)

Pin je en troang hode. 'We will show you the escape route.'

Vai oh ta am ko ga hme ka. 'They don't give him rice to eat.'

I CL: Pôi ta am ma ch. 'Don't give us two (any).'

(Imp Ben I CL w C Vb, fPt)

The benefactive phrase with transitive verbs:

T CL: Eh pe pa drou. 'You cook--for us--wine.'
(Ben T CL)

Ma va pel po pos drou. 'We two want to pound-for you and grandfather--rice.'

A ko pa muih. 'I'll cut--for us two--a field.'

I CL: A muih pa. 'I'll cut (a field) for us two.' (Ben

I CL w T Vb)

A va monnou en. 'I want to show you (it).'
The benefactive phrase with intransitive verbs:

Ga xah cho. 'He played with the dog.' (Ben I CL)
Cho prei kou môi to monhou. 'Their dog barked at
an antester.' (Ben I CL)

The sample analyzed text has one permuted clause with the benefactive transformation:

Xôu rokê ó póto vai plong. 'Xou is very skilled in taking them across by cance.' (AdvEmp Ben T CL)

The twenty benefactive clause transformations in the sample analyzed text occur in three clause types and with three verb phrase types as follows.

Ben Q CL: Q VP 2

Ben T CL: Q VP 1 C VP 7 T VP 4

Ben I CL: Q VP 5 C VP 0 T VP 1 I VP 0

Reflexive clause. The reflexive clause (Refl CL) specifies that the subject or agent is particularly stressed or emphasized in relation to the predication. The reflexive clause has a reflexive phrase (ReflP) inserted immediately following the predicate verb phrase of any basic clause except only the existive clause. The resultant clauses are thus known as the reflexive quotative clause (Refl Q CL), etc. The reflexive phrase consists of either of two reflexive particles (ReflPt):

The particle <u>del</u> in its various uses (cf. also the reciprocal particle <u>del</u> in the following subsection) is the twelfth most frequent word in the 27,437-word text, occurring 535 times, whereas the reflexive particle <u>xeh</u> ranks 45, occurring 121 times.

The reflexive clause may thus be summarized:

Refl CL: (S) - Pred - ReflP - ...

ReflP: xeh/del

xeh:

- Ga u mot meh tung trap me. 'He himself entered into that mud.' (Refl S CL)
- Ga ka romus zeh tes he ga me. 'He himself swallowed his spittle.' (Refl T CL)
- Eh zo heh đôh kóbô kô hã. 'You yourself also get what son-in-law?' (Refl T CL w C Vb, fPt)
- Prei oi meh 'bang me. 'The two themselves lived together there.' (Refl I CL, Loc?)
- No ga loi xeh 'nang. 'Then she herself really believed.' (TempP, Refl I CL w T Vb, fPt)
- Ga ta dei koxêt tung vo. 'He put for himself the mushroom in the jar.' (Refl B CL)
- Gá preo dei pole. 'He returned to his own village.' (Refl S CL)
- Ga hlo dei ngoh. 'He saw his own brother.' (Refl T CL w C Vb)
- Ga pou dei vai 'neng me. 'She carried by herself the young ones.' (Refl T CL)
- Ga ka dei kodrai me hiang tai. 'He ate by himself the woman all up.' (Refl T CL, DesP: (vPt, vAdj))
- Klei me ga tomiat dei. 'After that he thought to himself.' (TempP, Refl I CL w Q Vb)
- Ga lam muih dei neo. 'He went to cut the field some more for/by himself.' (Refl I CL w T Ve, fPt)

dei:

Ga has bong del a xiam trong. 'He was used to urinating alone at the base of the eggplant.' (Refl I CL, Locf)

The sample analyzed text has one permuted clause and three transformed clauses with the additional reflexive transformation:

Kuan ga pôu dei ing rong kô. 'The child--she carried (him) by herself on this back side.'
(OEED Refl T CL, Loc?)

No ko ga hiang mojo dei neo A-Pia me ai. 'Now she already leved (him) for herself some more---that (Miss) A-Pia.' (Temp, eSubj Refl I CL, fPt)

No ko eh bus ngan dei. 'Now you try and see for yourself.' (Temp, Imp Refl I CL w C Vb)

Hobai zeh ah. '(You) yourself watch out!' (Imp
Refl I CL, fPt)

The 64 reflexive clause transformations of basic clauses in the sample analyzed text occur in seven clause types and with seven verb phrase types as follows:

Q CL: Q VP 1

C CL: Q VP 1

B CL: B VP 1

S CL: B VP 1 S VP 5

T CL: Q VP 2 C VP 8 T VP 16

ICL: Q VP 2 C VF 4 B VP 2 S VP 2 T VP 8 I VP 11

Eq CL: Eq VP 2

Reciprocal clause. The reciprocal clause (Recip CL) expresses mutual action by and one two or more agents. The reciprocal clause has the reciprocal phrase (RecipP) inserted immediately following the predicate verb phrase of any basic clause except the equative and existive clauses; the verb may be prefixed with the reciprocal affix to- (see 12.2). The resultant clauses are thus known as the reciprocal quotative clause (Recip Q CL), etc.

The reciprocal phrase is dei po 'together, with each other' (po is the dual-plural second person pronoun 'you-all').

The reciprocal clause may thus be summarized:

Recip CL: (S) - $(\underline{to}$ -)Pred - RecipP - (O) - ...

RecipP: $\underline{dei} \ \underline{po}$

Ah prei monhen dei po. 'Thereafter the two argued with each other.' (Temp, Recip I CL)

- Me prei tokat dei po. 'Then the two wrestled with each other.' (Temp, Recip I CL w to-I Vb)
- Préi tohou dei po. 'The two cursed each other.'
 (Recip I CL w to-T Vb)
- Ga va rou dei po khu kia me ai. 'He wanted to call together the group of ghosts.' (Recip T CL, fPt)

The seven reciprocal clause transformations of basic

clauses in the sample analyzed text occur in two clause types and with three verb phrase types as follows.

T CL: T VP 1

ICL: C VP 1 T VP 2 I VP 3

Pocus clause. The focus clause (Foc CL) indicates to whom the predicate is related -- though the semantic homogeneity of this clause type is somewhat clusive. The focus clause has a focus phrase (FocP) inserted immediately following the predicate worb phrase of any clause except the existive clause. The resultant clauses are thus known as the focus quotative clause (Foc Q CL), etc.

The focus phrase consists of the focus particle (FocPt) dei (cf. reflexive particle dei above) and a following pronoun (but not po 'you all'--cf. reciprocal phrase dei po above), kinship term, or animate noun.

The focus clause may thus be summarized:

Foc CL: (S) - Pred - FocP - (0) - ...

FocP: <u>dei</u> - Pron/Kin/anN

dei kodre: No ko ga pochan the dei kodra i chu ou drou.

'Now he advised and commanded with the inlaws to come down and drink wine.' (Temp,

Poc I CL w Q Vb, PurP:(PurPt, T CL))

- Oh ta loh dei kódrá kótra pópeng tónei oh. '(He)

 did not allow for the in-laws to step upon

 the ground.' (Foc C CL(S CL), fPt)
- dei dôh: Klei me ga chiang kómei dei dôh neô. 'After that
 he became ashamed before his son-in-law more.'

 (Temp, Foc Eq3 CL, fPt)
- dei o: Xôu tó dei o ti me. 'Xou laughed at his younger sibling like that.' (Poc I CL, ManP)
 - Klei me Xôu kôm dei o. 'After that Xou waited for his younger sibling.' (Temp?, Foc I CL w C Vb)

The sample analyzed text has one transformed clause with the additional focus transformation:

Eh kus dei ps. 'You hug your own father.' (Imp Foc I CL w T Vb)

The six focus clause transformations of basic clauses in the sample analyzed text occur in three clause types and with four verb phrase types as follows:

C CL: Q VP 1 C VP 1

I CL: Q VP 2 I VP 1

EQ CL: EQ VP 1

The above four clause transformations each entail insertion of a phrase immediately following the predicate verb phrase. These four phrases are here summarized: BenP: Pron/Kin/anN

ReflP: xeh/de1

RecipP: dei po

PooP: dei - Pron/Kin/anN

Interrogative clause. The interrogative clause asks a question. All basic clauses may be transformed to interrogative clauses. The "emphatic" permuted clauses may be transformed to interrogative clauses only if the permuted element corresponds to the interrogative element of the clause. Of the above transformed clauses only the benefactive clause may be further transformed to (benefactive) interrogative clauses.

The interrogative clause entails the substitution of an interrogative word in the syntactic element of a clause or phrase being questioned. Interrogative clauses have been identified by the question mark rather than in the clause formula following each example.

Interrogative words have been included in various sections of the preceding chapters because of their varying syntactic features. In this section the various interrogative forms are summarized with reference to the relevant sections.

kóbó 'whot', Fron (7.1)

klai 'which?, what?', HomInter (7.1)

kiklai 'which?, what?', Nominter (7.1)

lai 'whicht, whatt', NomInter (7.1)

u lai 'where?', N-NomInter (7.1)

to lai 'how many?, how much?', NumInter (7.2)

a hôm, hôm '(yes-no question marker)', vPt (8.4)

a hai, hai 'yet?', vPt (8.4)

la lai 'when?', Temp (10.1)

ti lai 'how?, why?', ManP (10.5)

ch 'huh?, is that right?', fPt (10.4)

hôu 'okay?', fPt (10.4)

11.3 Frequency of clause type variations

the sample analyzed text, distinguishing both permuted and transformed clause types. The unpermuted, untransformed clause total (581) corresonds to those clause types presented in Chart 9.3 (section 9.9). (Interrogative clauses were not counted separate from other clause types in that their syntactic feature is word class substitution rather than permuted word order or additive transformation.) Over 75% of the clauses are of the unpermuted-untransformed type. Clause transformations (136) are more numerous than clause permutations (40). Reflexive clauses (64) occur more than three times as often as any other clause variation. Double transformation clauses are rare (7); but transformations of permuted clauses are exceedingly rare in natural text (1).

		Cl	BU.Se	tra	asfor	ention	#:		
	Basic	esubj	Imp	Ben	Refl	Recip	Poc	Inter	rotal
Basic CL	581	5	34	20	64	7	6	*	717
Permited CLs:								·	
Postposed subject	13	•				<u>.</u> u.			13
Obj/Comp Emp	14				1				15
Loc. Emp.	2								2
Adv. Emp.	11			·					11
Total	621	5	34	20	65	7	6	•	758
Double- transformation CLs:									
egubj-Refl		(1)			(1)	•		•	1
Imper-Refl			(5))	(5)				5
Imper-Foc			(1))	,		(1)		1
Total									765

Chart 11.5 Prequency of all clause types in sample text distinguishing permuted and transformed clauses (*not counted separately)

CHAPTER 12 AFFIXATION, REDUPLICATION, ETC.

12.0 Introduction

Apart from the nous and verb phrases, the basic clause types with nuclear and peripheral elements and variations of them described in the preceding chapters, there are other somewhat "miscellaneous" syntactic features which pertain to clauses. These are collected together and discussed in this chapter before proceeding to a discussion of a higher syntactic level in chapter 15.

The principal syntactic feature discussed here is the occasional affixation found in Sedang encompassing four major affixes (causal (12.1), reciprocal (12.2), adversative (12.3), nominal (12.4)) and several minor affixes (12.5). Sedang affixation has been previously described in Smith (1969a) using a generative transformational grammar model.

The remaining sections of this chapter discuss such miscellaneous topics as morphome reduplication, repetition, recapitulation, expansion, series, ellipsis and clause fragments, onomatopoeia, special descriptives and poetic form.

12.1 Causal affixes po- and mo-The causal affixes prefixed to a verb (except quotative, equative, or existive verbs) or verbal adjective transform these to a transitive verb in which the subject as actor "causes" the stated predication upon the object as undergoer. The affixes are semiactive, in that they may not be indiscriminately affixed to semantically viable verbs though occasionally a native speaker may use it in a new or novel situation.

There are two causal affixes: po- and mo-. The affixes may be prefixed only to monosyllabic words; yet only about 30-40% of presyllable po- or mo- in verbs are the causal affix--the others are bisyllabic words whose presyllable (today) has no semantic value of its own. po- characteristically occurs with those words having initial voiceless consonants, and mo- with those having initial voiced consonants or initial (written) vowels. But there are exceptions to both of these generalizations. Furthermore there are morphophonemic changes in which the initial voiceless consonant of some verbs becomes voiced. Some words occur with both affixes.

S Vb: ta 'to go around' moda 'cause to go around'

vAdj: tang 'to be erect' modang 'cause to be arect'

tai 'to be strong' model 'cause to be strong'

chai 'to be sick' mojai 'cause to be sick'

ton 'long time' moden 'cause to be long time'

mo- without change:

mo-at 'cause to fast' T Vb: at 'to fast' ha 'to open mouth' moha 'cause to open mouth' hriam 'to study' mohriam 'to teach' mo-au 'cause to nurse' I Vb: au 'to nurse' monuam 'cause to bathe' huam 'to bathe' : LDAY gok 'crowded' mogok 'cause to crowd' Affixation with po-: loi 'to abandon' polôi 'cause to abandon' C Vb: kum 'to pile' pokum 'cause to be piled' B Yb: chai 'to return' S Vb: póchai 'cause to return' T Vb: 'blei 'to beat' po'ble1 'cause to beat' chen 'well cocked' pochen 'cause to be well :LDAY cooked!

reh 'to be alive' poreh/moreh 'to nourish'
pVb: klei 'to finish' poklei 'cause to finish'

Some affixed forms have (vestigial?) vowel nesalization and/or consonantal preglottalization not in the unaffixed forms.

T Vb: ou 'to drink' mo-ou 'cause to drink'

I Vb: riu 'to awake' mo'riu 'cause to awake'

vAdj: reh 'to be alive' mo'reh/po'reh 'to resurrect'

A moderng loang. 'I lift up the pole.' (T CL w mo-vAdj)

- A póklei chen. 'I make finished (pay off) a debt.' (T CL w pó-pVb)
- Kódrai módot ehu. 'The woman stops the pig.' (T CL w mó-I Vb)
- A mohrism eh tum todroang. 'I will teach you all things.' (Ben T CL w mo-I Vb)

12.2 Reciprocal affix to-

The reciprocal affix prefixed to a transitive verb (or verb which may occur in a T CL) usually indicates that the predication is "reciprocal" between those of the (necessarily plural) subject. The reciprocal affix is to-. Sometimes, however, to- indicates only that the (plural) actors perform the predication together though not upon each other. The affix may be prefixed only to monosyllabic verbs; yet only about 30-40% of presyllable to- in verbs are the reciprocal affix. There are no merphophonemic alternations with reciprocal affixation except that with initial t roots the affix sometimes is ti- (4.3). The verbal phrase with included reciprocal affix usually occurs in the reciprocal clause followed by the reciprocal phrase dei po 'with each other' (11.2). The reciprocal affix appears to be an active affix, applicable to new cituations.

Ma tochúa del po. 'We two obey each other.'

(Recip T CL w to-T Vb)

- Préi toveang dei po. 'Those two help each other.' (Recip T CL w to-T Vb)
- Me préi tohlo dei po. 'Then those two saw each other.' (Temp, Recip T CL w to-C Vb)
- Vai toko del po, topak del po. 'They cut each other, stabbed each other.' ((Recip T CL w to-T Ve)x2)

12.3 Adversative affix 16-

The adversative affix prefixed to a verb (except equative or existive verbs) indicates that the (potential) (object as) undergoer is liable to the "adversity" of the predication. The adversative affix is doi: The adversative affix seems to be an active affix and appears to be used with more verbs and with greater frequency than the causal or reciprocal affixes. The adversative affix frequently cooccurs with the verb xau 'to be affaid'.

- Pos en lóhôu má. 'Grandfather, you curse us two.' (Voc, T CL w <u>ló-</u>T Vb)
- Pin xau rókai lólo. 'We're afraid boar will go through (into our gardens).' (C CL (I CL w ló-S Vb))
- Gá lómot tung kố. 'He entered into here (to bother us).' (S CL w <u>ló-</u>S Vb)

Though the adversative affix generally is affixed only to monosyllabic verbs, its affixation to a bisyllabic verb has been noted.

Á zau eh lókódé á. 'I'm afraid you will kill me.' (C CL(T CL w ló-T Vb))

Such a trisyllabic word gives rise to the possible analysis of 16-as a verbal particle; (1) no other affix is prefixed to a bisyllabic word and trisyllabic words are not otherwise within the established syllable pattern; (2) the vowel of 16-is sometimes spoken as a phonetic [5] with slight stress, whereas the presyllable vowel is always schwa and unstressed except in intentionally slow speech; (5) 16-is, suspiciously, considerably more productive than the other affixes with respect to the number of verbs with which it occurs; and (4) neighboring languages do not have such an affix although the other Sedang affixes are typical of the area. On the other hand, it has been analyzed here as a prefix because (1) of the general phonological pattern established by its typical unstressed schwa vowel and (2) psycholinguistic reaction has been favorable (Smith, 1969a,124-125).

12.4 Nominal affix -on-

The nominal affix infixed to a monosyllabic verb (except equative and existive verbs) "nominalizes" it to form a semantically related noun. The semantic relationship of the derived noun to the verb, however, is not predictable but may be

instumental, resultant, or locative. The nominal affix is -ón-, and is infixed between the initial consonant and following vowels forming a two-syllable word. If the initial consonant is part of a consonant cluster with a following r, then, because -nr- is not a permitted consonant cluster, the nominal infix has the form -od-. Because there are more initial consonants than presyllable types, there are various morphophonemic changes of the initial consonants to permitted presyllable consonants. All observed infixation patterns are summarised in Chart 12.1. The presyllable pó- is not utilized because of voicing of initial \underline{p} to \underline{m} . It is inexplicable (or only an erratic statistical phenomenon?) why verbs with the otherwise relatively common initial consonants 1, m, and n do not have nominalized forms. The nominal affix appears to be active, usable in new situations.

chia 'to dig'

hónia 'shovel-hoe'

hea 'to vomit'

hónea 'spewing instrument:

gun '

xoang 'to divide'

hónóang 'problem'

dea 'to add water'

kónea 'T-stick for measuring

water in wine jer'

kang 'to fence'

konang 'fence'

kleang 'to make trough' koneang 'trough'

krou 'to rell'

kódrou 'ball'

bus 'to test, try'

pan 'to raise'

monan 'domestic animals'

Verb		Presyll	able type:		
initiali	hó-)có-	m 6	ró-	tó-
ch-	hón-				
h-	hon-				•
X-	hón-	*			
d-		kon-		,	
k-		kón-			
kl-		kón-			
kr-		kodr-			•
b-	·		món-	1	
Per		• .	món-		
pr-			módr-		
. P.	Type whether the state of the 			rón-	
ŧ-					tón-
tr-					tón-

Chart 12.1 Mominal affix -on- infixation patterns

pran 'to bait'	modrán 'bait'					
re 'to ambush'	róns 'a trap'					
tiam 'to hammer'	tóniam 'forge'					
treng 'to cut'	toneng 'cutting board'					

12.5 Minor affixes

There are several minor affixes: the nominal affix kó-, the digital affix tó-, the ordinal affix mó-, and the velar animal affix.

Nominal affix ko-. The nominal affix ko- is prefixed to loan-mostly Vietnamese-substantives. This is a loan arising from the Vietnamese classifier cal which precedes many of these words in Vietnamese.

kó'bang 'a table'	VN:	cai ban
kóhôp 'a can'		cái hộp
kókeó 'a bottle'		cai kéo
kóli 'a glass'		oái ly
kómai 'a machine'		cái máy

Digital affix to-. The digital affix to- is used in three instances with the numbers two to four to indicate fingers' width; in one instance there is an inconsistent voicing of the initial consonant.

pea 'two' tobea 'two fingers' width'
pai 'three' topai 'three fingers' width'
pun 'four' topun 'four fingers' width'

Ordinal affix mo. Borrowed from Bahnar, the ordinal number affix mo. is prefixed to the monosyllabic numbers one through four and, less commonly, other numbers. More typical in Sedang is the ordinal number phrase ki Num (7.1-2).

mómôi, ki môi 'first' mópéa, ki péa 'second' mópái, ki pái 'third' mópún, ki pún 'fourth' Velar animal affix relic. A disproportionately large number of animal names begin with the velar k. The possibility that this might be a relic of a hypothesized velar animal prefix is intriguing and is explored in Smith, (1973d).

12.6 Morpheme reduplication

There are two types of morpheme reduplication: complete and partial.

Complete morpheme reduplication. ("Complete") morphemes of various classes (usually verbs, verbal adjectives, and adverbial elements) are repeated or reduplicated in their entirety for emphasis or intensification. Reduplicative concatenation of main verbs in the verb phrase (8.2) indicates a repeated or prolonged action.

Ga khen ga tel tel 'very strong'

Ga khen ga tel tel ta. 'She said that he

is much stronger.' (C CL(Eql CL, Comp?)

w Q Vb)

tuan 'ear; smart', ta '(comparative)'

Ga tuan tuan ta ta. 'He is much much

smarter (than they).' (Eql CL, Compf)

Complete morpheme reduplication may be extended to the story-telling device of repeating phrases to indicate prolongation or repetition of an action.

Kia kóchôu kóhèa kóchôu kóhèa kóchôu kóhèa.

'The ghost spit spittle, spit spittle, spit spittle.' (T CL)

partial morpheme reduplication. Reduplication of a part of a morpheme is (generally) a storytelling style which heightens the climattic points and affords establishment of a rhythm between stressed and unstressed syllables. Partial morpheme reduplication is, like presyllable reduplication (4.5), the reduplication of the initial consonant or consonant cluster of (monosyllabic) verbs in the presyllable with a presyllable i or u vowel or reduplicated main syllable vowel. Some story tellers use this device with, seemingly, few constraints.

mot 'to enter'; reduplication: mimot

Me 'ni'no kuke mimot tung me. '(The snake) came

out (of the water), killed (the girl), and

entered into that (water).' (TempP, S CL)

Bibrok lules kles pah. '(He) went and slit open

the snake's intestines.' (T CL)

12.7 Repetition, recapitulation, expansion

In their oral development, clauses may be interrupted for repetition, recapitulation or expansion with another syntactically complete but reduplicative phrase. Expansion of the verb phrase is seen in verbal concatenation (8.2). The interruption never occurs after a particle linked to a

following phrase but usually after an otherwise syntactically completed element of the clause. The interruption is usually marked by juncture.

Subject phrase:

- Ah o ga me, A-Pia me ai khen... 'Later on his younger sibling, that A-Pia said...'
 (Temp, Q CL:((S)x2, Pred))
- Kia ki me, ga khên ô-ôh. 'That ghost, he said "No." (Q CL:((S)x2, Pred, O))
- Klei me prei ong meh, prei lam peng chem.

 'After that the two brothers-in-law, the two
 went to shoot birds.' (TempP, T CL:((S)x2,
 Pred, O))

Object phrese:

- Ria am ga pókeang, tum tódróang. 'The ghost gave him powder, all things.' (Ben T CL:(S, Pred, (O)x2))
- Hogah kô ka mam tông kô a, cham tông kô a. 'This Hogah ate my stolen food, my stolen meat.' (T CL:(S, Pred, (O)x2))
- Prei lam peng chem, chem loang plai trai. 'The two went to shoot birds, banyan fruit tree birds.'
- Gá kötua kötel mönge, kötel rökal, kötel chöl.
 'He hung up human buttocks, boar buttocks,
 deer buttocks.' (T CL:(S, Pred, (0)x3))

Complement phrase:

Konou a monge rotoh, monge 'mei. 'My husband is a bad person, an evil person.' (Eql CL:(S, (Co)x2))

Pókeang chiang kóla, kóla 'drun 'dra. 'The powder became bamboo, bamboo real thick.' (EqS CL:(S, Pred, (Co)x2))

Locative phrase;

À u tro tung ngia kô hia, tung cha kô tê. 'I scraped thorns in my face, in my body and so forth.' (T CL, (LocP, fPt)x2)

Gá ái tódróang xôi 'báng gá, 'báng A-Pia me. 'He did wrong with her, with that A-Pia.' (T CL, (LocP)x2)

Adverbial phrase:

We ga tuveh me heh ta ko vai, lem heh ta ko vai. 'Then he himself returned healthier than they, handsomer than they.' (Temp, Ben I CL w S Vb, (DesP, CompP)x2)

Another form of expansion is through the linking of appropriate phrases with a <u>econdinating conjunctive</u> (CoConj) without juncture. The coordinating conjunctives are:

'bang 'with, and'

la 'or'

ôh 'or'; cf. negative particles ôh (8.4, 10.4)

thau 'whether ... or'

- Kis me 'bang tons kis me kis tes me neo.

 'That tiger and that host of ghosts crossed

 that water again.' (S CL:(S, CoConj, S, Pred,

 O), fpt)
- No ko a tol todroung Kim To Tou 'bang

 Kim Topa Ko. 'Now I tell the story of Long

 Breasted Ghost and Double Headed Ghost.'

 (Temp?, Ben I CL w Q Vb:(S, Pred, O:(N,((N,
 PMame)), CoConj, (N, PMame)))))
- A 'nei oh theu moi honem theu pen honem. 'I don't know whether one year or two years.' (I CL w C Vb, fPt; Frag:((CoConj, cNP)x2))
- Tung pólê ái môi ngề kán pólê ôh chu léang.
 'In a village there is one kan pole village chief er (one) chu leang village chief.'
 (Lockep Ex CL: (Co: (NP, Conj, NP)))
- Bun ngan hôm chiang môi tiah la ôh. 'Try and see (whether they) are capable the same or not.' (C CL(Eq3 CL, CoConj, Frag:(fPt)))

Expansion of more than one element of a clause--especially of the final elements--is also common but might equally be considered an instance of ellipsis of the earlier elements (12.9).

Eh va pro mongau pro mongeang. 'You are about to make black ants, to make red ants.' (T CL: (S, pVb, ((C Vb, G)x2)))

Pin kun pô kun kiklai. 'We scrape melons, scrape whatever.' (T CL:(S, (Pred, O)x2))

A xôk 'bang vai drôh ki ê, xôk 'bang kódrai ki ê ôh. 'I did not fool around with different girls, fool around with other woman.' (I CL:(S, (Pred, Loop)x2), fPt)

Eh monge chiang pro tum todroeng, chiang poxeh
ha. 'You will be a person creating all things,
doing miracles also.' (Eql CL(T CL; I CL, fPt))

Emui, ki klai hia chiang monge, chiang monge tai tang, chiang moi to pole kan. 'Ante, whatever, etc. became people, became people entirely, became one big village.' (Eq3 CL: ((3)x2, fPt, (Pred, Co)x3))

12.8 Series

Series of single or multiple clause elements frequently occorr with one of three series particles (spt): his, 'lo or 'ns. 'ns usually refers to indefinite groups of people (7.1).

- Prei chai a hagei ka dei 'na, prei te dei 'na ha. 'The two returned home to eat, the two sold their (things) also.' (SCL, Refl I CL w T Vb, spt; fpt)
- Vai ka, mau 'na ka pôh, mau 'na ka prông, mau
 'na ka pe, hmang to vai tômiat xeh. 'They
 ate, some ate roasted, some ate steamed, some
 ate cooked, according as they themselves
 thought.' (I CL w T Vb, (T CL:(S, aPt, Pred,
 0)x3), Volp)
- Tai tang pólê va ka ro 'lo, chu 'lo, í 'lo. 'The whole village was about to eat beef, pork, chicken.' (T CL:(S, Pred, (O, sPt)x3))
- Elei mot tung kong vai peng chem hia, ra choi hia, xe km hia. 'After entering the jungle they shot birds and ambushed deer and caught fish, etc.' (Temp?:(TempSub, S CL), T CL:(S,(Fred, O, sPt)x3))

12.9 Ellipsis and clause fragments

Ellipsis is the omission of a word or phrase considered essential for grammatical completeness but not for the conveyance of the intended meaning. Ellipsis occurs frequently and indicates, together with pronominalization and responses (15.8), the common dependence of one clause on another. Elided elements are always recoverable from the preceding

discourse. Items elided commonly include the head noun of noun phrases, the subject (such ellipsis was indicated as "optional" in the clause formulas (chapter 9)), the main verb of verb phrases (as indicated by the word "potential" in the definitions of clause types), the verb phrase, and the noun phrase of prepositional phrases. Ellipsis of the indirect object phrase in the bitransitive clause is accounted for in the transitive clause. Ellipsis of the (direct) object phrase is accounted for in clause subtypes: semitransitive clause from bitransitive clause, and intransitive clause from quotative clause, container clause, or transitive clause.

Noun phrase head ellipsis:

Nô kô mội hiếng khến mội chấu, mội hiếng
khến mội poa. 'Mow one (person) has called
one (person) grandchild, one (person) has
called one (person) grandfather.' (Temp, Ben T
CL w Q Vb)x2)

Subject phrase ellipsis:

Ne kreo - mot. 'Then (he) called, "Enter." (Temp, Q CL(Imp I CL w S Vb))

Main verb ellipsis:

Po-ia va cha A-Pia me neo. 'In a little bit (he)
was about able to (catch) that A-Pia again.'
(Temp, T CL w elided T Vb, fPt)

Eh ta hro. 'You are unable (to pound rice).' (I CL w elided T Vb)

Verb phrese allipsis:

Elei me pa ga - ma ta preò a hagei. 'After that his father (said), "Don't return home." (Temp?, Q CL(Imp S CL) w elided Q Vb)

Nown phrase of prepositional phrase ellipsis:

A va lam 'bang. 'I want to go with (you).'
(S CL)

Klei me prei lam dreng va to kong i chai a hngei.
'After that the two went together (with each other) to climb the ladder to return home.'
(TempP, S CL, (PurP)x2)

Extensive ellipsis culminates in retention of only a single major clause element—a clause fragment (Freg). A clause fragment may conscur with peripheral clause elements or may consist solely of a verbal particle and/or a preverb, a noun phrase, a locative phrase, an adverbial phrase, or a temporal phrase. Vocatives, exclamations, and responses (10.5-7) are sometimes isolated like clause fragments.

Hiang. '(I) already (saw the tiger)' (vPt)

Oh ta kai. '(The child) is unable (to climb into
the house).' (vPt-pVb)

Riang klei ha me. '(The woman) had already finished (winnowing the rice) also.' (wpt-pwb, fPt) Va. '(I surely do) want (to go to Kontum).' (pyb)
Cho kim me. '(It was) the dog of that ghost.'
(bMP)

A chiak. '(They slept) in the field.' (PrepP)
Ti me. '(Sedang sing) like that.' (ManP)
Moi tiah hen mongé. '(The chest hairs sing) the
same as many people.' (SimP)

Ah ton ton ton. 'A long long long long time afterward (it happened).' (Temp?)

12.10 Onomatopoeia

Sounds of animals and activities are mimiced by phrases which fit the phonology of the language though usually consist of several (phonological) words.

drih drih drih -sound of drums and gongs
hnhek hnhek hnhek -sound of a hoarse voice

pok pok pok -sound of a clear voice

ro ko rep -sound of horses galloping

tutosh tutosh tutosh -sound of two people pounding rice together

tutoch toch tutoch toch tutoch toch -sound of
three people pounding rice together
'ble 'ble 'ble 'ble -sound of thunder

12.11 Special descriptives

The verbal adjectives described in 7.1 are typically only one (phonological) word. There are other descriptives which because of their phonological and/or semantic complexity require specific mention.

Register contrastive descriptive pairs. Some special descriptive word pairs which contrast size differ only, or significantly, by phonological register. Words of the lax register represent the larger; words of the tense register represent the smaller.

khei 'red, of normal size' klei 'red, but very tiny'	(LR) (TR)
rómon 'small and black'	(TR)
ro'buang 'large hole'	(LR)
ro'bo 'small hole'	(TR)
ro'biu 'tiny hole'	(TR)
tótia 'large flying squirrel'	(LR)
totus 'small flying squirrel'	(TR)

Phonologically similar descriptive pairs. Some descriptive word sets have significant phonological similarity, frequently uncommon consonant clusters. If there is any morphological significance herein, however, it has been lost and is seemingly unrecoverable.

hódrah 'big' hódrang 'little'

mot 'enter (one person)'
'mot 'enter (many people)'

róduang 'a large, short elderly person, confined to one place'

roduang 'a large, short young person, confined to one place'

tongron 'a large, tall elderly sick person' tongron 'e thin young person, not moving about'

ronuang 'a large tall young person confined to one place'

ro'nuak 'a large, tall young person moving about'

'muo 'a short and fat young person'
a'muh 'a short and fat elderly person, sitting
down'

abnum 'a short and fat elderly person, walking about'

ró'mok 'a tall, fat young person' ró'mo 'a fat young person, average height'

Reduplicative descriptive terms. Some special descriptives consist of phonologically (partially) reduplicated words.

rê rong -description of a fearful cry
'drum 'dra -description of dense bamboo
gla glang gla glang -desc. of leaves flying
hither and you

ko'blou ko'bla -desc. of place crowded with people!

nunit manit -desc. of slowly moving things, as
the last person in a line, a frog, a duck
hmô hónôe -desc. of gentle slope of hill
hódru hódra -desc. of a long, single file
pélau póla pólau póla -desc. of way fish move
about

prêprêp preprep -desc. of water leaking out quickly

route roman -desc. of very many people

ro'mak ro'mian -desc. of lots of blood rotre rotrum -desc. of a child's temper tantrum hrei hrui -desc. of being all out up with scratches

're 'ro -desc. of complete destruction

12.12 Poetic form

Poetic form has been explored in Smith (1975c). The principal features of Sedang poetry are as follows.

The principal rhyme pattern is to rhyme the last word of a line with a non-final word in the succeeding line. Adjacent lines have a parallel semantic structure with one or more pairs of near symmyms or functional equivalents such that each of the two lines has the same (poetic) meaning. The basic metre is alternate stressed and unstressed syllables.

Môu A-Móang, ô nôu A-Móang tópui róbak, X - X - X - X - X Môu A-Jak tópui lo hen.

'A-Noang's mother, A-Noang's mother talks all the time;

A-Jak's mother talks a lot. '.

In the above example, <u>róbak</u> and <u>A-Jak</u> rhyme; "x" indicates stressed syllables, "-" indicates unstressed syllables. Moang and Jak are siblings.

CHAPTER 13 SENTENCE TYPES

13.0 Introduction

Sentences are the principal component of the next higher syntactic level, the paragraph (not included within the scope of this dissertation). Sentences consist of a single (independent) elause with or without dependent clauses (13.1-5) and/or either a vocative (13.6) or an exclamation (15.7). Responses (13.8) occur independent of further clause structure but are dependent upon the preceding discourse.

Chapters 7 through 12 discuss the various elements of clause structure. All clauses described and most of those illustrated above are complete and structurally independent of adjacent clauses. They are therefore complete fillers of the next higher syntactic level as simple sentences.

There are other instances of independent clauses strung together within a common intonation contour but without any further structural interrelationship. Semantically such clauses are closely related, frequently citing successive repid action. These concatenated clauses are each analyzed as simple sentences.

There are clauses, however, which are not thus indepen-

dent but are structurally dependent upon another clause. This chapter discusses five such complex sentence types (13.1-5) which consist of more than one independent clause. About 6-7% of all clauses in the sample text are elements of complex sentences; or, 2-3% of all sentences are complex sentences.

Most complex sentences have a dependent clause introduced by a conjunctive (Conj) and an independent clause.

Vocatives (13.6) and exclamations (13.7) usually, though not always, occur immediately preceding or following a clause to which they are appended to form a sentence. Occurring isolated, like responses (13.8), they constitute a sentence.

Some peripheral syntactic elements described in the chapters above as being clause level elements may also be sentence level elements, especially among the temporal phrases and final particles. Ellipsis of repeated identical elements (e.g. subjects, objects) within successive clauses becomes a sentence level phenomenon.

13.1 Conditional sentence

A conditional sentence has a dependent clause which states a "condition" and an independent clause which states the consequence. The dependent clause usually, but not always, precedes the independent clause. A conditional (clause) conjunctive (CondConj) precedes the dependent clause. The first two conditional conjunctives listed are

used most frequently:

teng 'if'

ching 'if, perchance', with explicit implication of improbable condition

chou, chu 'if'

The independent clause is sometimes introduced by the temporal me 'then' (10.1).

Tang eh mó'no pin tung vo kô hiể me ngin ja eh troang hóda. 'If you put us out of the jar, we will show you the escape route.' (CondConj (T CL w mo-I Vb, fPt), (Temp, Ben T CL))

- Gá tómiat tang á khến ôh kô ah á ôh ta

 cha ka. 'He thought, "If I say no, later on I

 won't be able to eat (her)." (Q CL(CondConj

 (Q CL (Resp))), (TempP, I CL w T Vb))
- Tang chuế tố pối ta veh ốh. 'If you (my in-law)
 laugh, do not turn mway.' (CondConj(I CL),
 (Imp I CL w S Vb, fPt))
- Tang eh ôh ta módreô ki gá kô gá hónun pla.

 'If you don't return these (things) of his,
 he will also fight.' (CondConj(T CL w mó-S

 Vb), (I CL w T Vb))
- Ching eh chai tung pólê ah a the vai pólê kode eh. 'If perchance you return into the village in the future, I'll tell the villagers

- to kill you.' (CondConj(S CL, fPt), (C CL w Q Vb(T CL)))
- Ching ti me ch lo. 'If perchance (it is) like that you go out.' (CondConj(Frag:ManP), (I CL w S Vb))
- Pa oh ta kai to tea tang oh ta ai plong. 'We two ean't cross the water if there isn't a cance.' ((S CL), CondConj(Ex CL))
- Ah phe km tai ka tung tro tang a ton. 'Later on the wildcat-like animal will eat all the fish in the trap if I sm (gone) long.' ((Temp, T CL, Quant, Loct), CondConj(Eql CL))

The independent clause may have an embedded dependent clause apart from the conditional clause of this sentence type.

Tang pin tê cheng ôh ta ai vai va xua rôh nô kố vai va to xê xo. 'If we (try to) sell gongs there aren't any (who) want (them) because nowadays they want only vehicles.'

(CondConj(T CL), ((Ex CL), CausConj(Temp?, T CL, fPt)))

Some conditional sentences do not have a conditional conjunctive but the semantic content and the intonational relationship of the adjacent clauses indicate this sentence type.

- Eh ti lei u lei. '(If) you don't believe (then) that's all.' ((I CL w T Vb). (I CL w C Vb))
- Eh hvang pokeang ki me ah chiang tea kan. '(If)
 you throw that powder (then) later on (it)
 will become a large river.' ((T CL w B Vb),
 (Temp, Eq3 CL))
- Tuan ga va ti lai hlo ti me. '(If) his mind wanted (semething) somehow (then he) saw (it) like
 that.' ((I CL w T Vb, NanP),(I CL w C Vb, ManP))
 Ai roi pin chai tung cha. '(If) there are flies
 (then) we will be sick in body.' ((Ex CL, (I CL
 w T Vb, LosP))

13.2 Causal sentence

The causal sentence has a dependent clause which states a reason or "cause", and an independent clause which states the consequence. The dependent clause usually follows the independent clause, though the order may be reversed. The causal conjunctives (CausConj) are:

xua 'because'; of. ContConj xua 'but' (13.3)

Ge ko pang rodei klai xua ga pa xeang veang ga me. 'This one was quite strong because he, the father spirit, helped him.' ((Eql CL), CausConj(OEmp T CL w C Vb))

- Yeang yeang ga me xua vai oh tu va ga me.
 'The spirit helped him because they didn't
 want him.' ((T CL w C Vb), CausConj(T CL
 w C Vb))
- No ko ga hieng chiang kro xwa A-Pia xo ga
 pokwang me nah. 'Now he had become rich because A-Pia had previously gotten him powder.'
 ((Temp?, Eq3 CL), CausConj(Ben T CL w C Vb,
 f?t))
- Pa You's father went into the jungle also because father wanted to get fish.' ((S CL, fPt), CausConj(I CL w C Vb))
- Xúa ti me pa lôu lâm tung kong. 'Because (it was) like that Xou's father went in the jungle.' (CausConj(Frag:(ManP)), (SCL))
- Dôn gá tối, "Chuố da dea lối nổ kổ xúa
 nah á teng vai tối tang pin va ốu drốu
 pồm pin thế dea lỗi hódrối." 'Ris sonin-law said, "You (father-in-law) continue to
 pour (it) out now because once I heard them
 say if we want to drink potato wine we must
 pour (it) out first.' (Q CL(Imp I CL w T Vb,
 Temp), CausConj(Temp, C CL w Q Vb(C CL w
 Q Vb(CondConj(T CL), (I CL w T Vb, Deaf))))))

13.3 Contrastive sentence

The contrastive sentence has an independent clause stating a situation or event followed by a dependent clause positing a contrary or "contrastive" situation or event.

The dependent clause is introduced by a contrastive conjunctive (ContConj). There are three contrastive conjunctives:

- xua 'but, except'; of. CausConj xua 'because' (15.2)
- 'but, except'; of. Dem me (7.1), Temp me (10.1), fpt me (10.4), ResConj me (15.5)

 tomm 'but, except'
- Ge the kom kunn me kis ki me va ka ge me ai.

 'He said to wait for the child but that ghost wanted to eat him soon.' ((C CL w Q Vb(T CL w C Vb)), ContConj(T CL, fPt))
- Then tang pon rem hai rem hai mun dreng

 pin ka ah ah ta hlo ka pom. '(You) say (you)

 go look for potatoes every day but when we

 eat later on we don't see (or) eat potatoes.'

 ((C CL w Q Yb(T CL), (TempP)x2), ContConj

 (TempSub(I CL w T Vb, Temp), T CL))
- Nonge troi pin re mis ga kis. '(He is) a person just like us except he's a ghost-' ((Prag: (Co:(NP), SimP, PPt)), ContConj(Eql CL))

Xo ga hme tung ding lem xua ga ôh tu va ka ôh. '(She) got him rice in a beautiful serving dish but he did not want to eat.' ((Ben T CL w C Vb, LocP), ContConj(I CL w T Vb, fPt)) Prei mot trumm hmou xua tea tôu nô kô pa.

'The two entered the hole (in the) rock but (it's) hot water (=DakTo) now, dad.' ((S CL), ContConj(Frag(Co:(NP)), Temp, Voc))

Nah kle hiang ka ro vai, toma ch ta cha. 'Previously a tiger had killed their cow but (they)
didn't catch (it).' ((Temp, T CL), ContConj(I
CL w T Vb))

15.4 Concessive sentence

The consessive sentence has an independent clause stating a situation or event conjoined to a dependent clause
positing an exception or "concession" to that which was or
will be stated. The dependent clause is introduced by the
concessive conjunctive (ConcConj) ma lua, lua 'though, although, yet, despite, whether or not'.

Me lue mongé on ta rohoi, vai toi ga mongé on ta rohoa, tung hagei ga homan toma ai tum khu ké ki me. 'Although someone may not be smart and they say he's not capable, in his house there are also oustomarily all those things (i.e. necessary tools).'
(ConsConj((Eql CL), C CL w Q Vb(Eql CL:(Co:
(Eql CL))))), (LocEmp Ex CL))

13.5 Resultant sentence

The resultant sentence has an independent clause stating a situation or event conjoined to a dependent clause stating a "resultant" situation or event. The dependent clause is introduced by the resultant conjunctive (ResConj) me 'so, so that, thus'. Cf. Dem me, Temp me, fpt me, ContConj me.

Vai va kode ga me ga hnoi preo hloi. 'They were about to kill him so he returned immediately.' ((T CL), ResConj(I CL w S Vb, fPt))

13.6 Vocatives

vocatives (Yoc) occur either before or after a clause or independently. When before a clause, vocatives are separated by juncture from the clause and have a separate into-nation pattern. When after a clause juncture may be elided and the vocative may occur within the clause intonation pattern.

Vocatives are either personal names (7.1), kinship terms extended to encompass all associates (e.g. 'bok, Bahnar for 'grandfather', is used for foreigners and highly respected officials), or a kinship term followed by the personal name.

O ja. 'Oh grandmother.'

A-Pia. 'A-Pia.'

A-Pia, pó'lang en hôu nô kố. 'A-Pia, good-bye now, okay?' (Voc. T CL, fPt, Temp)

Ja Te Tou, eh a hom hio Kóxet Tiun lam
troung ko ai. 'Grandmother Te Tou, have
you seen (the fellow) Koxet Tiun going on this
path recently?' (You, C CL(S CL), fPt)

A kó-ok kô pa. 'I have a cold here, dad.' (I CL, Loef, Voc)

13.7 Exclamations

Exclamations (Excl) usually precede the clause but may occur independently. Exclamations include the following.

a lahi

brei, tobrei 'boo', to express disapproval or glee over an enemy's misfortune

Brei, brei, Teang hiang hla. 'Hurrah, hurrah, Teang is dead.' ((Excl)x2, I CL)

e, è -expresses pensiveness

eh -attracts attention, expresses shock or desire to change one's mind; cf. f?t eh question marker

Eh, ngan hou. 'Hey, look here, okay?' (Excl, Imp I CL w C Vb, f?t)

Eh, tang ti me eh lam hódrói neó eh.
'Hey, if (it is) like that you go in
front.' (Excl, CondConj(Freg:(ManP)),
(I CL w S Vb, DesP, fPt), fPt)

ei -exclamation of ridicule
hah, heh, heh, hoh -expresses surprise
1, ih -feminine fright

me -expresses resignation to a situation or indicates that an event has been completed by 'okart'

ô -attracts attention, often precedes vocative ô vêh -expresses dismay

ôi, ôih -expresses dismay

têh, teh -surprise, 'what on earth!'
Têh, kố bố pốc rốpốc kể ait 'What! who
cut the soapberryt' (Excl, T CL, fPt)

tet, têt -surprise, astonishment Tet ti lai kô sh. 'What on earth!' (Frag: (Excl. Manp, fPt))

13.6 Responses

Responses (Resp) are dependent syntactic elements in that they are triggered by specific questions which are understood to be answerable either (1) by a repetition of the clause with substitution of appropriate particles or (2) by a single response word. Response words do not other-

wise occur within clause structure but have the sole function of a single word response. (Other single word responses may be formed, of course, by ellipsis of all but the appropriate element of a clause; response words are not the result of ellipsis.) Response words form a small class which includes the following.

eô 'okay', affirmative response to imperative hôm 'yes', affirmative response to an a hôm yes-no question

khoh 'permitted, not taboo', affirmative response
to an a hom khoh 'is it permitted?' question
'nhish, hai 'nhish 'not yet', negative answer to
an a hai 'yet?' question

- ou 'okay', affirmative response to a <u>hou</u> imperative
- ô-ôh 'no', negative response to an a hôm yesno question

Any preverb (8.5) or the verbal particles hiang 'already' or ta hai (8.4) may form, by ellipsis, single word responses.