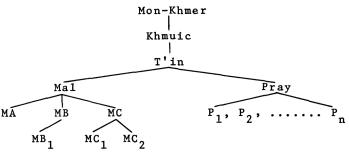
ON \*/r/ IN T'IN

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## Introduction

The location of T'in and her dialects within t total picture of Mon-Khmer may be displayed by mean of the following tree:



T'in was classified as a Khmuic language by Thomas and Headley (1970). As I pointed out in my dissert tion (Filbeck 1971), there is no T'in language, on dialects. The term T'in may be considered an ethno graphic construct for the people in Thailand and La who speak a set of related dialects, but synchronically the term has no reality either linguisticall or culturally. There are two main branches in T'in the Mal and the Pray, but neither of these can be considered homogeneous dialects. Mal is divided in three dialects having sharp boundaries clearly definable by statable rules of phonological change. Even the Mal subsets (MB<sub>1</sub>, MC<sub>1</sub>, MC<sub>2</sub>) are sharply differentiated, and in a way directly related to the

cussion of this paper for the latter two sublects. On the other hand, Pray is still a language h a great deal of 'local differentiation' (Swadesh 2). Dialectal boundaries are not sharp; there is y a potpourri of individual changes meandering bugh all Pray villages resulting in no accumulae, dialectal effect among the speakers.

The introduction of the above tree schema of a dialects is important in one major respect: it wides a concise picture of what we are up against tracing the Proto-T'in phoneme \*/r/ throughout the lects of T'in. The behavior of this proto-phoneme not confined to dialectal boundaries. Yet a pice of the dialects of T'in offers a frame of refere whereby a discussion of this behavior can take ce. Therefore, my purpose in this paper is to be the current, varied situation of Proto-T'in \*/r/ the extant dialects and to present a description ch will account for the changes from \*/r/ in all wn dialects, but without regard for the boundaries these dialects.

## Data

The data of Proto-T'in \*/r/ and its reflexes cut oss and through all dialects of T'in. That is, re are dialects in Mal and Pray which contain an phoneme, and identical developments from \*/r/ are ervable in both Mal and Pray dialects. The locans of these isoglosses, whether /r/ or any develent from \*/r/, are often noncontiguous as one vels from east to west or from north to south. In lity, villages located in proximity to each other 1 more than likely display a mosaic of heterogeus retentions of and developments from Proto-T'in /. For example, just three hours' walk from the

T'in village where I lived for a few years, there were two other T'in villages differing from each other in respect to \*/r/ as well as differing from the village where I lived in still a third way. Just beyond these two villages were other villages adding their own distinctive patterns to the mosaic. Even where there exists a clustering of villages representing a retention or a particular reflex of \*/r/, there have been migrations of villages representing different aspect of the problem into the area. Som T'in villages are even a mixture of /r/ retention as /r/ reflex.

Proto-T'in \*/r/ can in some cases be used as t sole criterion in differentiating dialects. Such is the case for differentiating Mal C<sub>1</sub> from Mal C<sub>2</sub>, bu this represents only a trivial dialectal variation within the total picture. For the most part dialec differentiation in T'in must be an accumulation of different changes of which the behavior of Proto-T' \*/r/ is only one. I emphasize this at this point because the following discussion may at times give the impression that the development of Proto-T'in \* is the only criterion for dialect differentiation. This is far from true. The purpose of this section is to locate isoglossic retentions and reflexes of Proto-T'in \*/r/ in T'in. I do not mean the geograp ical location of these isoglosses, for the shifting fortunes of the T'in people under the dark cloud of the Indo-China War makes this impractical and impos sible. I mean the dialectal location of \*/r/ and i reflexes within the schema of T'in dialects present in the introduction.

In other words, I will use the proto-phoneme \* and its reflexes as typological features to classif

T'in dialects into four groups. However, in this se, the classification is only arbitrary, perhaps austive, but certainly not, as Greenberg (1963:66) do say, unique; a few dialects may be classified more than one typological classification. This become clear in the discussion.

## /r/ Dialects

Mal A

The first typological group consists of those lects where the proto-phoneme \*/r/ has been ained throughout. In this type I mean to include y those dialects where \*/r/ has been retained for relevant positions of the syllable: initial, al, and in initial consonant clusters. There are a dialects where \*/r/ has been retained for only tain positions, but these shall be discussed by. Furthermore, I mean that the modern reflexes of /r/-type; cases where \*/r/ has developed to different sort of phoneme are not included.

There are two T'in dialects where the protoneme \*/r/ has been retained. One is Mal A and other is what we may term for the purpose of a paper Pray 1. The listing below gives a number cognates from these two dialects where /r/ occurs all consonantal positions.

	•	
ra?	ra?	'to place'
?iar	si?iar	'chicken'
raaŋ ?aal	raaŋ lam	'flower'
pran	pro?	'sore'
thaar	thaar	'rope'
mpriaŋ	mpreŋ	'split bamboo'
krak	krak	'tomorrow'
khrεh	khreh	'ripe'

Pray 1

nkroh

'morning'

Mal A is spoken in only one village located at the extreme western edge of T'in territory in Thung Chang District of Nan Province in north Thailand. Pray 1 consists of at least three non-contiguous areas, two in Thailand and one in Sayaboury Province in Laos. (I am indebted to Don Durling of the Christian and Missionary Alliance Church for furnis ing data from several T'in villages in Laos.) The first area in Thailand consists of several villages located in a refugee camp in Thung Chang District. The second area is located some 15 miles to the south. The area in Laos includes two villages several miles apart, but the data show they share identical features. Between the villages located i Thailand and those in Laos, there are a few differences, mostly in vocabulary.

#### The / I/ Dialects

pron

The criterion for classifying or typing T'in dialects here is that for all relevant positions of the syllable, the reflex of Proto-T'in \*/r/ is the lateral /|/. /|/ is already an established phoneme for all dialects of T'in and for Proto-T'in. Here, however, 'relevant syllable position' takes on a restricted meaning, because, for having undergone the change from Proto \*/r/ to /|/, there must be a previous rule eliminating all liquids (including /r from all consonant clusters. Only one dialect meet this condition and that is the subset Mal C1.

Mal dialect C is spoken only in one large lage complex in Pua District of Nan Province.

Complex in Complex in Evaluate the 2000-plus speakers in secomplex into two linguistic groups. The sole terion for distinguishing between these two sets is the way Proto-T'in \*/r/ has changed. When the consonant clusters have been replaced by the

Proto-T'in	$Mal C_1$	
ri?	113	'energetic'
mar	mal	'snake'
khraak	khaak	'buffalo'
phlah	phah	'to forsake

Mal dialect C<sub>2</sub> also has /|/ in prevocalic ition for Proto-T'in \*/r/, but differs from C<sub>1</sub> that postvocalic proto \*/r/ changed into /y/. s, however, brings us to the third group of T'in lects, and Mal C<sub>2</sub> should be discussed in this nection, along with a number of other dialects.

## Glide Dialects

The criterion used here for typologically uping T'in dialects is that for some position or itions of the syllable, Proto-T'in \*/r/ has ome a glide. This criterion does not result in nique classification for it does not exclude the ention of /r/ for other positions of the syllable, the change of proto \*/r/ to /l/ for these other itions.

Three glides have developed from Proto-T'in \*/r/ the dialects of T'in. The most common glide is . One of the interesting things about /y/ is that

it is only one part of a split, i.e. where Proto-T's
\*/r/ has become /y/, it has also become something
else. For example, in Mal C<sub>2</sub>, \*/r/ became /y/ in
postvocalic position, but /!/ in prevocalic position
In a Pray dialect, which we will call Pray 2, just
the reverse has occurred: /y/ is prevocalic and /!
is postvocalic. In still another Pray dialect,
Pray 3, /y/ has emerged in consonant clusters while
/r/ is retained for all other positions.

$Mal C_2$	Pray 2	Pray 3	
may	mal	maar	'snake'
m÷÷l	məl	rər	'to walk'
loon	luaŋ	ruaŋ	'path'
laaŋ	laaŋ	raan	'flower'
pham	khyam	khyam	'person'
khooŋ	khyoon	khyoon	'husband, male'

In Mal B an unusual glide has emerged as a reflex of Proto-T'in \*/r/ in postvocalic position. It is a high back unrounded vocoid, which we may transcribe as /i/. The pronunciation of this vocoi can be observed by comparing three words: /sui/'rotten', where there is no tongue movement between /u/ and /i/, only an unrounding of the lips; /nth+i'bat', where there is a slight backward movement of the tongue; and /koi/ 'claw', where there is an upward movement of the tongue and an unrounding of the lips. This sound is nonsyllabic and is classified as a glide. For other syllable positions in Mal B Proto-T'in \*/r/ has become /y/.

Proto-T'in	MalB	
reeŋ	yeeŋ	'crab'
roh	yəh	'to rise up'

Proto-T'in	MalB	
ri?	y † ?	'energetic'
phər	p hə i	'to fly'
kar	ka <b>ï</b>	'straight'
tur	tuï	'cracked'
kru?	kyu?	'deep'
khreh	khyeh	'ripe'
mprooñ	mpy၁၁ñ	'a type of basket'

ause of the change to /y/, Proto-T'in \*/r/ has a lost from consonant clusters occurring contiguto a high front vowel; e.g. Proto-T'in \*/mprian/lit bamboo', Mal B /mpian/. This has occurred in dialects where \*/r/ has become /y/ in consonant sters.

The third glide that Proto-T'in \*/r/ has changed o is /w/. I have found this in only one village far and in connection with the change to be cussed next.

r/ and /ŋky/ from \*/r/

The cluster \*/ŋkr/ for Proto-T'in is well ested from evidence in the majority of T'in lects. However, there is some evidence that a words found in the dialects with this consonant ster should be reconstructed simply with Protona \*/r/. The most common example is /ŋkrəm ~ ŋkyəm/cover, conceal, disappear', which is found in rly all dialects that I have investigated, both and Pray. Mal dialect B also has /yəm/ in ition to /ŋkyəm/. Mal A has /ŋkrɛɛr/ 'eye aract' while Mal B has /yeei/. It might be argued t the best explanation for these variations is t the cluster /ŋk/ was lost from a few words as

Mal B emerged as a separate dialect. But it could also be argued that  $/\eta k/$  was somehow an accretion for these few words. That this is a distinct possibility can be seen from a Pray dialect which we may call Pray 4.

Pray 4 is spoken in a single village located not in a tribal refugee camp in Pua, Nan Province.

Pray 4 is a mixed dialect because of heavy lexical borrowing from formerly surrounding villages speaking Mal dialects. The substratum, however, is clearly Pray. In this dialect Proto-T'in \*/r/ has become the glide /w/ in syllable final position; for examp Proto-T'in \*/piar/ 'two' has become /piaw/ in Pray In syllable initial position \*/r/ has developed to /ŋky/. This includes loanwords from Thai beginning with /r/ (here marked Lw).

Proto-T'in	Pray 4	
raaŋ ?aal	ŋkyaaŋ ?aal	'flower'
ra?	ŋkya?	'to place'
reeŋ	ηκγεεη	'crab'
rεεη (Lw)	ηκγεεη	'strong'
rak (Lw)	ŋkyak	'love'
raap	ŋkyaap	'to drive away'
mccr	ŋkyɔɔm	'gully'
roon	ŋkyuaŋ	'path'

An interesting allophone of  $/\eta ky/$  in Pray 4 is  $[g^{\gamma}]$  a fronted back, voiced, velar fricative; it has almost a palatalized quality about it. With some speakers this allophone varies quite freely with the whole cluster  $/\eta ky/$ .

Because of this evidence that Proto-T'in \*/r/ has been replaced by  $/\eta ky/$  in Pray 4, we should not rule out the possibility that a similar process has

o occurred in other T'in dialects. That is, it is sible that for a few sets of cognates beginning h the cluster /ŋkr/ the reconstruction should be to-T'in \*/r/. However, I believe that this is her controversial for the small amount of data we e, and unfortunately it is a solution we will

e to abandon in the course of this paper.

#### honological Description

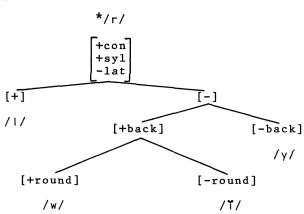
After the above exercise in dialectology a son might be justified in being thoroughly coned concerning Proto-T'in \*/r/ and its reflexes in ern day T'in dialects. At the beginning I ounced there are dialects in T'in but then I ceeded to disregard these dialectal boundaries instead chose a proto-phoneme to arbitrarily roup these dialects typologically according to entions of and changes from this proto-phoneme. graphically, as is the rule in dialectology, the glosses formed a mosaic and not a straight line descent from one point to another; phonologically, found a wide variety of changes from \*/r/ as well random combinations of changes, plus random entions of /r/. This, of course, leads us to the ssical tension between dialectology and structural guistics and only adds to the confusion.

However, the situation is not as chaotic as my cussion makes it appear. We can bring order to ery large degree out of all the data we have erved by making the assumption that language nge is basically a change in grammar, i.e. in erlying competence. Since grammar in this sense characterized by rules, linguistic change is nge in the rules of the grammar. Therefore in s section we are really interested only in making

explicit the changes that have taken place from the proto-phoneme \*/r/. I will not discuss where \*/r/ has been retained nor where \*/r/ has been replaced by zero, for there is nothing of interest in these two aspects. \*/r/ in certain cases has been lost; e.g. Mal B has /m++/ 'to walk' while Mal A has /m++r/, which must be taken as the reconstruction of this word. Proto-T'in \*/hr/ has been lost in nearly all the dialects of T'in, the words containing the taken greplaced by Thai loanwords.

The rules characterizing the changes from Protection \*/r/ take as their domain of operation those distinctive features proposed by Chomsky and Halle (1968). Under this system /r/ is classified with the features +consonant +syllabic -lateral . The changes from this -lateral

set of proto-features may be conveniently summarized by the following schema (I leave the case of  $/\eta kr \sim \eta ky/$  for a special discussion later).



This schema is to be interpreted as reflecting what has been available to all T'in speakers in the cour of development from Proto-T'in. That is, there has been a 'choice', in terms of binary features, where

direction of the change takes place. As far as goes the schema is descriptive, but not necesily explanatory; there is much more, as we shall rtly see, to the problem than we presently erstand.

This schema summarizes several rules which racterize the changes from Proto-T'in \*/r/. re are two types of rules involved in these nges, those that change features, and those (like pheme structure rules) that add features.

In the schema above it can be seen that the ic change involves a change of features, or more perly a change of feature specification. One of interesting results in assuming the features put ward by Chomsky and Halle is that the features in set \begin{aligned} +\con \ +\syl \ -\lambda & \text{lat} \end{aligned} become either all 'plus' in specificion, \begin{aligned} +\con \ +\syl \ -\lambda & \text{lat} \end{aligned} = /\lambda/\; or all 'minus', \begin{aligned} -\con \ -\syl \ -\lambda & \text{lat} \end{aligned} = \lambda & \text{lide}.

eover, this appears to be a simplification of the to-phoneme, which is a favorite theme in genera-e linguistics. Presumably we can say that it is pler, in a matrix, to have all pluses or all uses instead of two pluses and one minus. In er words, it represents a greater generalization structure to have either all of one or all of other.

If the change is made to where all features are ked plus, then there is nothing more to say, for resulting realization is /|/. If, however, the nge has made all specifications minus, then rules t add features are needed, for we have seen that re are three glides that have emerged in the T'in

dialects. These three glides divide themselves into back and nonback varieties. So the first rule of change in this regard adds the feature [±back]:

change in this regard adds the feature [tback]:

-con
-syl
-lat
tback

| tback | con | con

tion is /y/. Now [+back] glides in T'in dialects ar likewise divided into two groups, being specified by another rule as to [±round]. If the resultant matri is \begin{aligned} -\con \\ -\syl \\ -\lat \\ +\back \end{aligned}, then the realization is /w/. If the \\ +\back \end{aligned}

matrix is  $\begin{bmatrix} -\cos & & & \\ -sy1 & & \\ -1at & & \\ +back & \\ -round \end{bmatrix}$ , the realization is / $\tilde{1}$ /.

+round

We have seen that /nky/ for Pray 4 is a reflex of Proto-T'in \*/r/, and that some cases of /nkr/ in other dialects may be also. It appears that these two clusters form an alternation, for if /r/ and /y/ form an alternation from proto \*/r/, then /gkr/ and /ŋky/ should also. Moreover it would seem that the course of events for Pray 4 was proto \*/r/ to /nkr/ to /nky/ since Proto-T'in \*/nkr/ has also become /ŋky/ in this dialect. However, all this is not necessarily true for two reasons. First, because of the scant data we have, it cannot be argued to any convincing degree that some examples of /nkr/ ar to be traced back to the proto-phoneme \*/r/; therefore, /nkr/ and /nky/ are not true alternatives and the notion should be dropped from consideration. Second, I believe the correct sequence of events for Pray 4 was not \*/r/ to  $/\eta kr/$  to  $/\eta ky/$ , but simply \*/r/ to /ŋky/. By assuming this we can account for

allophone  $[g^y]$ , which is in free variation with cluster  $[\eta ky]$ .

Proto-T'in initial \*/#r-/, as in the majority
T'in dialects, was under pressure to become
tial /#y-/, but for this dialect it came out [gy],
ch is close in articulation to /y/. In fact [gy]
very nearly palatalized itself. Now there was no
c voiced velar obstruent of any type in Proton. In the change from Proto-Khmuic, Proto-T'in
t all voiced stops, \*/bdjg/ becoming /ptck/.
way which compensated for this loss was the emerice of new prenasalized unaspirated stops in
lition to the ones already in the language.

Now prenasalized unaspirated stops form a well-ablished pattern for the T'in dialects, so it is mystery that the phone  $[g^y]$ , having developed from to-T'in \*/#r-/, was further phonemicized to  $/\eta ky$ -/. Is description fits in a neat way into the schema clined towards the beginning of this section. Vising that schema to include  $/\eta ky$ / and reproducing by the relevant parts of that structure, we can assify the fronted velar  $[g^y]$  as a nonback segment stinguishable from the other nonback segment by the



ture [+strident].

strident] is realized as the front glide /y/. But [+strident] is added, a whole new process is itiated, namely stridency requires that the segment be marked [+consonant]. Since the whole process

At this point I posit an optional Feature
Distribution Rule for this T'in dialect which distributes the relevant features sequentially:

([+strident] is obligatorily changed by another rule to [-strident] for this context.) In the environment above, [+voiced] is realized as a nasal homorganic to the succeeding stop consonant, which in turn is realized as the velar /k/. [-back] is realized as the glide /y/. In this way the cluster /ŋkr/ is bypassed completely in a natural way as an intermediate step for this dialect, thus achieving a certain amount of simplicity in our description. Moreover, because of the free variation of [gY] and [ŋky] even in the speech of individuals of this dialect, this Feature Distribution Rule characterizes a synchronic competence, a competence that has its roots in a historical process.

# Unexplained Facts

The previous section offers a description of the changes that have taken place from Proto-T'in \*/r/, but there are still a number of facts left unexplained. For example, why do particular reflexes of proto \*/r/ occur in only certain positions of the

lable and not in all positions? Also, why are re certain combinations of reflexes--i.e. pre-postvocalic occurrences of different reflexes--found in the T'in dialects?

The phonotactic facts of Proto-T'in \*/r/ and reflexes found in the various dialects are these:

m the standpoint of phonological theory, why have

se combinations emerged? A few are explainable; . it seems natural that /ŋky/ would not occur as eflex of \*/r/ in syllable final position. Also, is natural to expect /y/ in consonant clusters be lost when occurring contiguous to a high front el. These two facts can easily be explained in model of linguistic change because they have to with physiological limitations on just what can pronounced, given the environment of the syllable er discussion. But why should /I/ be a reflex of to-T'in \*/r/ in one position and /y/ in another? why should /y/ emerge only in consonant clusters le /r/ is retained for all other positions? se and other similar phonotactic facts have no lanation; no theory I know of can offer an lanation of why the changes from proto \*/r/ have

There are a number of missing combinations.

example, these \*/r/ reflex combinations are not

nd in any T'in dialect I know of:

itioned themselves in these ways and no other.

These combinations are plausible; indeed most of the occur already in various T'in dialects but of course not necessarily due to development from the protophoneme \*/r/. The question here is why \*/r/ and its reflexes have not formed these particular combinations. There is no reason why these should not have emerged in addition to the others discussed above. Maybe a few have, in some yet undescribed dialect or unknown village. Perhaps some of these missing combinations may yet emerge in some of the dialects where /r/ has been retained.

One possible explanation for these missing combinations is the need to avoid homophonous words. That is, these combinations have not been utilized because of overloading the speech act with too many homonyms, thus impairing communication. However, there is no way to gauge what is and what is not overloading in this respect. Moreover, avoidance of homonyms seems to play no significant role in determining what particular phonotactic combination emerges in a T'in dialect. Both Mal  $C_1$  and  $C_2$  are chock-full of homonyms because of changes from Proto T'in \*/r/ and other sound changes, such as loss of prenasalization. I have a difficult time understanding these two dialects because of these resulting homonyms, but I have not noticed that there is any comparable lack of understanding when native speakers speak to each other. Therefore, I must conclude that the need to avoid homonyms is not sufficient to explain why certain combinations of reflexes from Proto-T'in \*/r/ do not occur in T'in dialects.

It appears that we must allow a certain amount of indeterminacy--or fickleness, if you wish--in

cribing the resulting phonotactics of Proto-T'in ·/ and its reflexes. When a proto-phoneme such as s splits into different reflexes in different itions in the syllable, we find a sort of capriusness about it all. It is not a capriciousness structure or structuring, for changes from proto / in these cases do not fly off into all direcons along the spectrum of phonological features. is still possible to structure the data in terms abstract features and underlying rules of phonoical change. Indeterminacy must come in when we to predict where a certain phonological structure ll occur in a syllable. This we cannot do in most ses for the dialects of T'in, and it is a position at generative linguists do not find particularly tisfying. Linguistic facts without possibility of eoretical explanation are currently considered stasteful. Yet, as far as natural languages go, re is a fact of life we must learn to live with.

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