

RETROGRADE RECONSTRUCTION IN SOUTHEAST ASIA

Paul K. Benedict

Chess problem solvers have long employed 'retrograde analysis' in working on difficult problems: a checkmate position (= the solution) is set up at the very start, with subsequent exploration of possible avenues for reaching it. Something of the same sort: 'retrograde reconstruction' is useful in working with the Austro-Tai languages of Southeast Asia, attempting to piece together the di- and trisyllabic roots of that stock that have undergone decomposition in both Kadai (typically CRL) and Miao-Yao (typically CRR). The three AT roots cited by way of illustration include one trisyllabic, with *-ŋi- as the (AN) 'connecting link', (TOOTH), and two disyllabic → (affixed) trisyllabic, (WEEP) and (I). In all three roots the AN forms provide 'solutions,' so to speak, and one ends up attempting to fit together assorted congeries of odd-looking cognates: P-Tai *ku^A, Lk. tsi^A and Laha ɔ^A 'I', showing excellent tonal agreement!

The primary SEA developments to keep in mind are:

1. Syllabic reduction throughout the area
AN: primarily /3/>/2/: the 'drive' (Brandstetter) or 'drift' (Blust) towards disyllabism
KD: both /3/ and /2/>/1/ (Chinese infl.) via canonical reduction on-the-left (CRL), with initial consonant clusters making for an important exception (CRR)
MY: as above, but on-the-right (CRR) for /2/>/1/ reduction

2. Split cognate formation
 Within AN~KD~MY as well as interfamilial

3. Vocalic transfer (VT)
 - AN: rare: in Chamic under mainland areal influence (Lee 1974)
 - KD: widespread/typical (Benedict 1979), often following reduction of V_1 to /ə/, yielding /i/ in SYL-II
 - MY: uncommon; evidenced in some roots

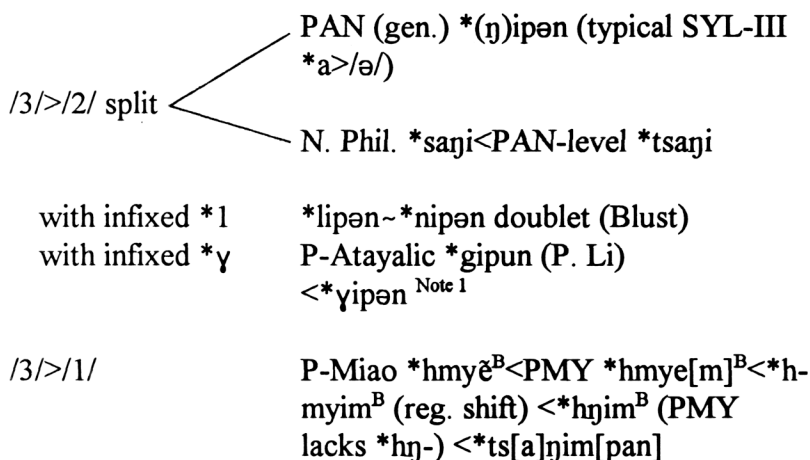
4. Incorporation of morphological elements
 - PAT prefixed *qa- (destressed>ka-): nominal, proto-role undet.; widespread, especially in KD; probably-SEA 'animal prefix'
 - PAT suffixed *-a(n); nominal, proto-role undet.; uncommon
 - PAT pronominal marker *ʔi-; see I, below
 - PAT 'stative' prefixed *ma-: P-Tai *maw^A 'drunk'<*ma-bušuk
 - PAT personal/pronominal marker *tsi-; see I, below
 - PAT nominal/pronominal marker *ʔu-; see I and TOOTH, below
 - PAT infixed *-um- 'actor focus-marker' (AN role); (see Benedict 1991 for *ʔa(-um-)aRi 'come/return' [motion towards speaker])
 - PAT suffixed *-ən 'object focus-marker' and *-an 'referent focus-marker' (AN roles); (see Benedict 1989)
 - PAT infixed *-ɣ-, *-r-, *-l- and *-l-; roles unclear/undet.; see TOOTH, below

5. Nasal increments (NI)
 - An absolute benchmark of AT, represented everywhere; well retained in MY whereas KD has *mp>/b/, *mb>/m/, etc.

6. Secondary aspiration and glottalization
Aspirated or glottalized (including imploded) consonants always secondary, e.g., frequently
ʔ+cons.<prefixed *qa- (above)
7. Consonant clusters (see WEEP, below) vs. dyads (see Benedict 1989)
8. Development of tonal systems (Chinese influence)
PAT apparently had pitch-accent (retained in Japanese), replaced by tones (<basic 3 tones) in both KD and MY; tones late in AN: Oceanic; Chamic (Huihui/Sanya on Hainan) under areal influence
9. Procrustean cons. loss in KD (see Note 4)

TOOTH

PAT *tsaŋi(m)pan



TOOTH

[continued]

/3/>/1/ [cont.]

with VT

Be ton¹ (Sav./Haud.) ~tin¹ (Hash.),
from earlier *tian<*pian (reg. shift)

plus velar+

labial→

labialization

PKS *pywan^A (Thurgood)

with further→

dentolabial but

without VT

P-Tai *van^A (reg. medial voicing)Lakkia wan^A<*van^A (Lakkia lacks *v-)

same, with VT

P-Hlai *fyan^A: Matisoff reconstructs
*fan^A but notes Jiamao tshan¹<*tshan¹;
add Xifang and Cunhua sen¹, also
Mefuli xien (Stübel 1937)

with infix *1

Gelao *p(-1-)an^A: Wanzi (Gao) pan¹,
Pudi (Ao) ma-fuŋ^½; Liuzhi (Duoluo)
plaŋ^½ ^{Note 2}

/1+/3/>/2/

(and /2/)

>/1/ with

prefixed *ʔu-

along with VT

PKD-level *tsuaŋ^A:Pubiao suaŋ¹~suon¹, Pupeo šuon,Buyang θo:ŋ¹, Laha cuŋ¹PKD-level Recon:

*(ʔu-) tsanip(-1-)an or set up split
doublet?

WEEP

PAT *p _l aŋits	PMP *t(-m-)aŋis Paiwanic *C(-m-)aŋits Atayalic (Sediq) *l(-m-)iŋis (P. Li) (*a>/i/assim.)
/3/>/1/	PMY *ŋem ^B <*ŋim ^B (reg. shift) <*[p _l a]ŋ-m[-its]
/2/>/1/ CRR	Oceanic: Yabem (Papua: N. Huon Gulf) taŋ Lati cuŋ (init. cluster→CRR); cf. mcu 'eye' *mapra
CRC (in-the-center)	P-Tai *phray ^B ^{Note 3} <*phra[ŋ]i[ts] ^{Note 4} Lakkia piē ^A <*pya ^{†A} <*praŋi (typical sec. nasalization)
CRL	SW-Tai (Siamese) *hŋi ^C '(comp.) sob, cry' <*ŋi ^C (cf. KS), with loss of final in composition. Buyang ŋiet<*ŋit (palatalization -SYL-I) Laha ŋit<*ŋit Gelao: Baiyan (Gao) ŋi ⁶ , Pudi (Aou) ŋe ² <*ŋi[t] (Gelao lacks stop finals)
CRL (with VT)	PKS *ŋe ^B ~*ŋe ^B (palatalization-SYL-I, from *ŋai ^B)

WEEP [continued]

/2/>/1/ [cont.]

CRL

(with VT)

Be ɲai^{3/5}<*ɲai^B (cf. KS)P-Hlai *ɲai^B (See Note 4)

I

PAT *ʔa(ɲ)ku→

(enclitic)

PAN *ʔaku~ (enclitic) *-(ɲ)ku

PMY (N/W. Miao/Biao) *kou^B<*ku^B
(reg. shift)P-Tai (E. SW/N-Tai) *ku^AUnmarked:
(CRL/VT)P-Tai (W. SW/C-Tai) *kaw^A (Tai Lue
ku/kaw); Jiamao (Hlai), Pubiao/Pupeo
kau^A; Lati kui (reg. -ui<*-aw)*ʔu-marker:Jap./Ryuk. *(w)anu<*(w)an^{ku} (reg.
shifts) ^{Note 5}

CRR

Old Jap. (w)a- (enclitic)

PMY *wa[ɲ]^B: P-Miao (E. Miao) id.;
She vɔŋ^{B/C}

CRM

Niala (Ceram) wau<*ua[g]u<*u-a[k]u

Laha ɔ^A<*uaw^A<*ua[g]u<*u-a[k]u ^{Note 6}

I
[continued]

- *ʔi-marker:** Paiwanic *yaku < *ʔi-aku
- CRR Malaweg, Isneg (N. Phil.) *ʔiyaʔ < *ʔi-ak[u]
- P-Yao (Mien/Mun) *ʔya^A
- CRR Be (Sav./Haud.) zea^{3/5} < *ʔya^{B/C} (reg.
[cont.]) shift)
- PKS (Mak, Gengfang, Maonan) *(ʔ)e^A,
from *(ʔ)ia^A
- CRM Paiwanic: Saisiyat yako'~ya'o', Siraya
ya-u/yao
- PKS (Kam, Sui, Xicun, Taiyang)
*ya:w^A
- P-Gelao *ʔia^{A/B} < *ʔiaw^{A/B} *Note 7*
- *tsi-marker:** N. Phil.: Ilocano, Pangsinan
syak < *tsi-ak[u]
Sambal, Botolan
hiku < *tsi[a]ku
Bolinao siʔku < *tsi-ʔ[a]ku
- CRL PKD *qu^A: P-Hlai *xou^A, Laqua khəu,
from *[tsi]ʔku
- CRR Shidong tsia^A, Lakkia tsi¹ *Note 8*

NOTES

1. Reg. shifts; for infixed *y, cf. PAN *ba-y-qan 'molar tooth' (→M1, Jv, P-PN 'jaw/chin'); PKD *() (N) qan 'jaw/chin' (Tai, KS, Be, Hlai, Laha cgs.), showing VT, variable NI, with *() (Hlai) poss. reflecting an infix.

2. Pudi ma- not identified; for the reflex, cf. the closely parallel Gelao forms for 'dream': Wanzi pan¹, Pudi huj^{1/2} (voiced h-), Liuzhi lan^{1/2} pla^{1/2} (lan^{1/2} is a preformative); note that Pudi has /šue/ for Wanzi pe in '10' as well as for Wanzi /pai/ 'fire' and 'walk', the latter apparently via -e<*-ai.

3. Benedict 1989 reconstructs P-Tai *pr- (cluster) vs. *p-r- (dyad), with suggestion that *phr- vs. *ph-r- (the *phl/r- of Li's *Handbook*) might also be required; WEEP fits here nicely:

		P-Tai		Ahom	Nung	Saek	Cf. Paiwan
		(SW-T)	(C-T)	(N-T)			
eye	*pra ^A	ta	tha/ha	pra	*maCa	-masa 'eyeball'	(Atayal)
bamboo	*p-rVk	tək	phyo:k	pruk	*buluq	'small/arrow	
with						bamboo'	
weep	*phray ^B	hai	hai	tai	*Caŋits	*liŋis (Sediq)	
rock	*ph-ra ^A	phra	phya	phra	*barasaq	'stone/int. calc.'	

4. These CRC and CRL (with VT) forms all show typical Procrustean loss of final; KD lacks *-ait and the like.

5. Old Jap. i- only for '2nd', si-<*tsi- for '2nd', '3rd'.

6. Laha has -aw/-ow for P-Tai *-a(a)w but -ɔ for *-uaw; cf. /kɔ/ 'scratch', Saek (N-Tai) /khuaw/; Paiwanic *kuyaw/kayaw.

7. Gelao /ʔi/ but /ya/ in early source (de Beauclair); reconstruction uncertain but there are parallels for the indicated -ia<*-iaw.

8. PAN *tsi is also used to mark personal names and the same usage is found in Kadai: Saek (N-Tai) si^A<*tsi^A.

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