THE COLVILLE EVIDENCE IN THE RECONSTRUCTION OF PEIS VOWELS

Anthony Mattina University of Montana

1. <u>Introduction</u>. This paper attempts to integrate Colville (Cv) evidence with the material in Columbian (Cm) and Coeur d'Alene (Cr) utilized by Kinkade and Sloat (KS)¹ toward the reconstruction of Proto-Eastern Interior Salish (PEIS) vowels. It is simplest to introduce Cv evidence following KS's format, starting with the Cv vowel inventory, restating the hypothesized PEIS vowels, and adding the available Cv forms to the cognate sets that represent the reflexes of each proto vowel.

2. <u>Colville vowels</u>. Cv vowels are i, u, and a. ϑ is (1) automatically inserted in the following environments (R resonant, Č glottalized consonant, C (other) consonant):

$$c_{1}^{4} - Rc_{0}^{2}$$

$$\dot{c} - c \left\{ c_{0}^{*} \right\}$$

$$c_{1} - c_{i}c$$

(2) interconsonantally a redundant feature of deliberately slow utterances (e.g. a word repeated for the benefit of one who didn't understand it); (3) the unexplained unstressed vowel grade of a few roots: tak"?, ?aks, and a few others; (4) unexplained in a few cases where it alternates with \emptyset , for example preceding the actual aspect c- (ac- ~ c-).

3. <u>PEIS vowel reconstructions</u>. KS reconstruct a PEIS system that includes *a *i *u and "three types of the ə," a full-grade vowel, a secondary ablaut grade of the other three vowels, and an epenthetic, "largely predictable" \ominus . This last is not discussed in detail by KS, and is not considered distinctive in PEIS.

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4. <u>Cognate sets</u>. On and Cr cognates are divided in five sets, one for each reconstructed phoneme. Each set is subdivided by the environments that condition the Cm and Cr reflexes. Schematically, the 'most characteristic developments of PEIS vowels' may be charted thus:

*	Cm	Cr
*a	a	a (/_[+back] ²)
		i
*i	i	e (/_[+back])
		i
*u	u	◦ (/_[+back])
		u
*°1	i (/_9)	a (/_[+back])
	ə	3
*ə2	ə	ə

The reconstruction of each PEIS vowel phoneme and the Om and Cr evidence adduced by KS is now discussed in detail, alongside the Cv evidence as it confirms KS's analysis, or as it suggests revisions.

4.1. <u>*a</u>. KS found the reflexes of *a to be (A) Cm á, Cr á; (B) Cm ə, Cr á, (C) Cm á, Cr $\hat{\epsilon}$, exceptionally; (D) Cm ə, Cr \hat{i} ; (E) Cm á, Cr \hat{i} , regularly. KS list irregular, unexplained correspondences in (F).

A. KS list 45 etymologies showing Cm á, Cr á. 29 of these occur before back consonants, with or without an intervening consonant; 16 are unexplained.

1. On á, Cr á, (Cv á). In Cv, as in Cr, a back consonant or an r prevented the *a , i shift, as evidenced by the following items which are numbered to correspond to the KS lists: (2) war frog, (6) $n(a)^{2}aq$ rot, (7) xaq pay, (9) $c^{2}aq^{*}$ summer, (10) tax^{*} escape, (13) tax friend, (14) pax scrape, (16) $^{2}ayx^{*}$ tired, (17) $sa(^{2})x^{*}$ melt, (18) cas holler, (19) xas fan, (20) yas gather, (21) -alqs clothes, (25) -asqat day, (26) -alq^{*} tree, (29)

-axon arm. Two Cv forms, for reasons that remain unclear, show a pre-Cv *a, subsequently i, metathesized with the back consonant that followed it. This metathesis, not an uncommon phenomenon in pre-Cv, must have preceded the *a \rightarrow i shift, otherwise the *a would have remained Cv a. In these two cases, (1) k^wri yellow, (8) s-q^wsi? son, we can infer pre-Cv forms, respectively *k^war and *(?)asq^w, but the processes by which they developed into Cv are not altogether clear. In the case of k^wri the laryngealization of r is problematic; in the case of s-q^wsi? the Cv root is probably to be interpreted as /q^wVs.

Unlike Cr, where both -ilp and -alp are found, the latter before a suffix containing a back consonant, only CV (28) -ilp <u>tree</u> occurs; on the other hand it is possible that CV (5) x^{u} am-qen <u>roan animal</u> has retained a because of the back consonant of the suffix.

The Cv form (15) $\sqrt[3]{v}$ as $\sqrt[3]{v}$ is xa? <u>robin</u> is not directly comparable with either of the other two cognates and, in fact, the analysis of the Cm and Cr forms is unclear. Is it Cm s-xax-wisxa? and Cr wes-xax? In any case, the Cv reflex of *a between or before x is not to be found.

Finally, the two forms Cv (4) papa, pipa have assumed, according to an informant, complementary meanings, papa referring to the weasel in winter, and pipa to the weasel at other times.

2. On \Rightarrow , Cr a, (Cv a). Of the 16 examples in this section, 5 represent borrowings. Cv has a in these. These forms were borrowed after the *a > i shift had taken place. Of the remaining 11 examples, four known Cv cognates retain a post-tonic pharyngeal, which regularly prevented the *a > i shift: (33) $x^{\mu}a^{\gamma}t$ duck, (36) ca'n grasshopper, (38) mail fly, (40) swai^w ccugar. I infer that On and Cr lost the pharyngeals in these forms after the *a > i shift had taken place.

Two other Cv items, (31) scim <u>bone</u>, (32) ciw <u>wash</u>, indicate that it is only the Cr forms that developed irregularly, and remain to be explained, while the Cn and Cv reflexes are regular. We note further that Cr (30) $q^{v}am-q^{v}amt$ <u>pleasant</u> is irregular only in V₂, and that the behavior of V₁ in Cv $q^{v}am-q^{v}am-t$ is similar to that of a in (5) $x^{v}am-q^{v}am$. The reflexes of another form remain unexplained in all tree languages, (37) Cm ma²i, Cr ma²i, and Cv m²al <u>warm water</u>. B. KS list only two examples of $Cn \ \partial$, $Cr \ a$. The CV cognates are (46) mtSas <u>kidney</u> and (47) mcSatt <u>pus</u>. Neither cognate supports the hypothesis that these are reflexes of *a. Each CV form has only one vowel, a, which corresponds to Cm \hat{u} , Cr u, not to Cm ∂ , Cr \hat{a} . CV (46) is probably analyzable as mt-Sas, where -Sas is a variant of -us with pharyngeal displacement and total vowel assimilation.³

C. KS list 11 examples of Cm a, Cr ϵ ; 37 examples of Cm a, Cr $\dot{\epsilon}$, which share the environment of a word-final glottal stop; 6 lorrowings; and 22 other unexplained pairs.

1. On á, Cr ε , (Cv í). Cv (48) ma²m²in <u>vomen</u>, (50) swit <u>vho</u>, (51) ka²lis <u>three</u>, (52) xmin <u>enemy</u>, (56) młkiya² <u>Hood</u>, all exhibit í, as expected. What remains unexplained in this set is the stress shift that took place in Cr, from the final syllable to earlier in the vord.

2. All Cv forms that include the suffix -a? retain the vowel as a: the others do not, and the development of *a is irregular: Cv i (stressed), e otherwise. Thus Cv (62) ?ácca? go out, (63) cik"a? left side, (65) ?itx"a? camas, (66, 70) -ica? body, (67) pica? digger, (75) tina? ear, (76) ta?tupa? great-grandfather/child, (77, 79, 8), 83, 84, 85, 87, 88, 89, 91) -a?, (92) -ina? ear, (93 -ipla? handle, (94) -ica? blanket, surface. (95) -iica? body. In all these forms -a? is unstressed. In two forms, Cv (72) st?i? grass, and (73) *?i? canoe, the reflex is i, suggesting that Cv -i? does not correspond to the suffix *-a?, or at least that Cv, before the shift, interpreted these two forms as not including that suffix. Moreover, stress in the Cv forms has shifted to the final syllable, and a glottal stop has intruded before the last vowel. These are not isolated instances of ?-insertion. It should be noted that the ?-insertion and the V? - ?V metathesis produce similar results (Cf (6) n(a)?aq, (9) c?aq"). In all such cases we may infer pre-Cv forms CVC, but for the moment we lack information about the conditioning factors that triggered these phenomena.

The remaining Cv forms exhibit ϑ : (74) s-təmkə?-ilt <u>daughter</u>, (81) cco?-úps <u>younger sister</u>. The reduced grade is a function of the shift of the stress to the suffix. However, the language does not seem to have preserved either of these roots (roots like təmkə? and cco? would not fit

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the Colville canon) without strong suffixes.⁴ The analysis of these forms is problematic in any case: if c^2 is the root in Cv (81), then the form does not contain the reflex of the suffix *-a².

3. On á, Cr (2, (Cv á). The set of six borrowings presented here differs from that discussed in A.2. only in the Cr reflex. Analysis of these forms reveals that Om and Ov regularly borrowed as [a] French [a] and [c] and English [a] and [a]; and that Cr borrowed French [a] and English [a]as [a], and French [ε] and English [ω] as [ε]. With respect to (100) Cm súlcas, Cr sóltes, Cv sultás, I should point out that the item is borrowed from English, and not French, that the word-final [-z] is retained in each language as [-s], and that in Cv the stress pattern has conformed to that of the more common borrowings from French, which, incidentally, is favored by Cv, a language where stress tends to move to the end of the word according to these rules of weighted morphemes: strong suffixes have weight 3, weak suffixes 1; strong roots have weight 2, weak roots 0. The heaviest morpheme receives the stress. Thus a strong root is unstressed in construction with strong suffixes, but stressed in construction with weak suffixes, and so on. Of two or more consecutive strong suffixes it is the rightmost that retains stress.

4. (a) Gn á, Cr $\stackrel{(c)}{\leftarrow}$, (Cv á); (b) Cn a, Cr $\stackrel{(c)}{\leftarrow}$, (Cv i, a). The Cv evidence does not help as much as one would wish in the analysis of the correspondences listed here. Although two forms exhibit ablaut, (110) may, miy tell, (113) Hik^w, Eak^w pierce, five others have only a, and remain unexplained: (102) ?am(t) feed, (103) ?amít sit, (105) ?awt follow, (106) ?ac tie, (111) myał too much. It would only be conjecture to advance that the initial ? and ? might have prevented, in these cases, the *a , i shift (for a counterexample cf (133) Cv ?ip wipe), and, if that were the case, the Cv forms would still remain unexplained. On the other hand it may be more reasonable to suspect that y (and w) prevented the shift to i in Cv (cf 4.2.B.).

There are no available Cv cognates for (114) and (115), and Cv (117) wx^{\vee} hang has been recorded unstressed only. Cv (116) ki?lilx^{\vee} bark has unstressed i, which is unusual (unstressed vowels nearly always reduce),

and remains unexplained. Likewise in (119) $\lambda^2 k^{v}$ ilx <u>shaman</u>, the a remains unexplained. But in Cv (122) mila? <u>bait</u>, the a is probably segmentable, although the discrepancy in stress remains unexplained.

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D. KS list 3 examples of Cm \Rightarrow , Cr i. None of the Cv forms belonging to this set has been recorded stressed.

E. KS list 98 examples of the regular change of *a to Cm a, Cr i, (Cv i). Except for Cv (225) kama? pine needle, (226) ka? is three and (227) q way low place, which remain unexplained, PEIS *a regularly became Cv i. Cf Cv (129) sipen daughter-in-law, (133) ?ip wipe, (134) slip wood, (135) qipx "a? nut, 136. mrim doctor, (138) limt glad, (140) stim what, (143) piwt light, (145) wiw back, (147) siw ask, (148) k"ik"ox"na? mouse, (151) pica? digger, (153) tic pitch, (154) q'vic full, (156) k'in take, (157) xmink like, (158) tina? ear, (160) k in pick, (164) sqiltk meat, (165) q^wilom sing, (166) qəİspiləm Kalispel, (167) cil shade, (168) -ilt child, (169) mif rest, (170) kif give, (171) xil fear, (172) s-pin-om bitterroot, (173) s-xix climb, (174) tim easy, (176) ?is change, (181) awo-awocwiya? chipmunk, (184) 11ik thin, (187) nikołx son-in-law, (188) wix dwell, (189) cix brother-in-law, (190) s-mik^wət snow, (193) [?]ik^wən fish egg. (195) wnix true, (02) -ip door, (203) -iws middle, (206) -itk water, (09) -ink stomach, (210) -ina? ear, (212) -ilt child, (214) -ilx" skin, (216) -iica? body, (217) -iix" house, (219) -iks(t) hand, (220) -ikst hand, (221) -ip bottom, (222) -ipla? handle, (224) -ilp tree.

Of the remaining 20 forms for which Cv cognates are available, two occur with both i and a: (152) qick, 1-qá-qc-a? <u>older brother</u>, (223) -i(?)st, -ast <u>projectile</u>. qick and iqáqca? are both regular developments, not so -i(?)st and -ast. Six forms exhibit a, contiguous to y or w: (137) yal <u>rum</u>, (141) s-myaw <u>Coyote</u> (probably borrowed), (155) wanx <u>wardance</u>, (175) q^wSay <u>black</u>, (178) q^way <u>plenty</u>, (191) yak^w <u>cross</u>; one exhibits a following word-initial glottal stop (similarly to (102) ?am feed and (103) ?amút <u>sit</u>), (146) ?awt <u>follow</u>; one has i following initial glottal stop, (133) ?ip <u>wipe</u>; four are irregular in Cv: (132) łkap <u>bucket</u>, (149) sa?stám <u>sibling-in-law</u>, (199) ła? <u>next to</u>, (208) -xan <u>foot</u>. Two other Cv forms exhibit a regularly before back consonants, (131) sxáxpa? <u>grandfather</u>, (159) qáqna? <u>grandmother</u>,

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in reduplicated constructions. Finally, three Cv forms have either metathesized a? - ?a or they have inserted a glottal stop before the root vowel, and while (200) waha <u>bark</u> suffixes a reduplicated final vowel, (128 kxan follow has probably developed from an original disyllabic root.

128.	Om kxap	Cr čišip	Cv kxan	go along
150.	q ^w a?c	q ^w ic	q ^w ac	Warm
194.	pax	pix "	p?ax ^W	shine
197.	k"a?	k [₩] i?	k [∀] ?a(m)	bite
200.	wah	wih	waha	bark

F. Irregular correspondences. Cv (228) $sq^{u}aq^{u}$ prairie chicken, (229) mas^{u} break, (230) $q^{u}as^{u}$ drunk confirm the fact that the Cr cognates have developed irregularly. Cv (321) $x^{u}a^{n}ik$ thornberry, (232) $x^{u}uy$ go, confin the fact that these items have undergone irregular developments, but it isn't clear how, and in which language(s) the regular developments took place. Cv (235) con-cash suggests that its pre-Cm and pre-Cr cognates also had a pharyngeal; its presence would have prevented the *a > i shift in Cr.

4.2. <u>*i</u>. KS found the reflexes of *i to be (A) Cm i, Cr é; (B) Cm i, Cr ι; (C) Cm i, Cr i, regularly. They list irregular, unexplained correspondences in (D).

Sets (A) and (C) are in complementary distribution, (A) exemplifying the reflexes of *i before back consonants and (B) elsewhere. Cr e could be accounted for with a rule that lowers i to e before back consonants. In my discussion I will include (C) in (A).

A (and C). KS list a set of 61 correspondences Cm i, Cr i, é. Except for Cv (246) k'saw greet, all other known Cv cognates have i: (236) piq white, (238) lid bury, (241) ciq" skin, (242) d'os-d'isxa? robin, (243) ptix" spit, (244) cix" spark, (245) 'itx"a? camas, (247) qolspilom Kalispel, (248) ylmix"om chief, (256) sipi? hide, (257) cip pinch, (260) ululim iron, (261) xiw raw, (262) tkiwl climb, (263) kit near, (264)c-xit corrugated, (265) twit boy, (266) x?it first, (267) k"it flea, (268) 'istk winter, (269) picx" disgust, (270) kic arrive, (271) ka?kic find, (272) skicx^w <u>Coeur d'Alene</u>, (274) sic <u>blanket</u>, (275) tic <u>pitch</u>, (276) q^win <u>green</u>, (277) ptwina⁷x^w old lady, (278) tinx <u>sinew</u>, (279) sinca⁷ younger brother, (282) ma⁷min <u>rub</u>, (285) cilkst <u>five</u>, (286) q^wil <u>cheat</u>, (287) til <u>sprinkle</u>, (288) ¹/₄a⁷k^wilx <u>shaman</u>, (289) ²itən <u>eat</u>, (290) k^wik <u>take off</u>, (291) miy <u>know</u>, (294) wik <u>see</u>, (295) nik <u>cut</u>, (296) xik <u>miss</u>, (298) cik^wa⁷ <u>left</u>, (301) cix^w <u>fishhawk</u>, (302) ylmix^wəm <u>chief</u>, (303) qix^wəlx <u>sucker</u>, (304) qi⁷x^w <u>stink</u>, (306) kit <u>near</u>, (309) yasukri <u>Jesus Christ</u>, (311) -ica⁷ <u>blanket</u>, (312) -cin <u>mouth</u>, (313) -qin <u>head</u>, (315) -ikən <u>back</u>.

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B. KS list 8 pairs of examples of Cm i, Cr $\iota.$ Of these, six are polysyllabic. The first four,

248.	Cm yilmix "əm	Cr yılmix"əm	chief
251.	yilám	dilim	run
252.	miyáł	miyéi	too
253.	smiyaw	รทเหร็พ	coyote

can be explained by similar rules in each language, provided that no contrast exists in either language between yil / yl (il) (in Cr dil / dl), miy(V) / my(V) (mi(V)), if we posit underlying forms

Cm y1mix "əm	Cr ylmix"əm
ylam	dlim
myai	myei
smyaw	smyiw

and phonotactic rules of i-insertion. The fifth pair, (254) Cm sti[?]icxan Cr stiyičšon <u>killdeer</u> can be explained similarly, adding that the sequence ii ($_{y}$ i) is interrupted by the ? in Cm. Cv has (248) ylmix"am, (251) yal, (252) myał, (253) smyaw (probably borrowed from Cm). If the proto form was *yal, then Cv retained a contiguous to y, and Cm and Cr metathesized VC₂ in middle forms (-m), which regularly show *a as a in Cm and i in Cr. No Cv cognates are available for the other two pairs, while Cv a matches the unstressed i of the final pair: (247) Cm qalispál, Cr qelispílem, Cv qalspílam.

D. Two sets of forms with unexplained, irregular correspondences raise some interesting questions about their respective developments.

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320.	Cn pis	Cr péste?	Cv pîas	nighthawk
328.	snis	s-nos	snsas	snot

The Cv cognates and the Cr vowels point to proto forms with pharyngeals in them. These were lost in On leaving no trace; they were lost in Cr leaving the "darkened" vowels as trace; and were retained in Cv along with *a which developed irregularly to a. The explanation for the Cv retention of *a as a might be that both sn as and p as look as if they contained the suffix -us / - Sas face (and they might have at one time), and like those forms that exhibit pharyngeal displacement, retained -Sas.

4.3. *u. KS found the reflexes of *u to be (A) On u. Crobefore back consonants (4 etymologies), and (B) Cm u, Cr u regularly (69 etymologies). They list irregular, unexplained correspondences in (C). Sets (A) and (B) are complementary in the same way as sets (A) and (C) of the reflexes of *i. The Cv evidence confirms KS's reconstruction while it shows some peculiar developments in Cv. Regularly *u . Cv u, thus: (334) x⁴up win, (335) x⁴up weak, (336) lup dry, (337) məlqnúps eagle, (338) túp=1 spider, (339) tatúpa? great-grandparent/child, (341) pum brown, (344) sum sniff, (347) xaxnut nine, (348) lut no, (350) xbut rock, (351) xbut badger, (355) mus feel, (356) mus four, (358) k^uus frisky, (361) [?]a[?]úsa egg, (362) pus cat, (364) stuscon marrow, (365) clusont hail, (368) x⁴us foam, (370) spu⁹ús heart, (371) qu'uc fat, (372) muc mare, (375) mul dip, (376) sul freeze, (377) k^uł lend, (379) stułca? mule deer, (380) pul gopher, (382) scuilem bull, (383) q "ui dust, (384) suyápix white man, (385) puy wrinkled, (387) ⁹uk^w bring, (389) suk^w drift, (390) pux^w blow, (391) sux" know, (393) scu?xán foot, (397) laputáy bottle, (398) -lup place, (399) -ups tail, (400) -us face, (401) -úlax ground.

A significant number of forms show Cv a corresponding to Cm u, Cr u (and o), as well as to Cm u, Cr a. Spokan' cognates are added in an attempt to understand better the developments involved.

331.	Ca pulpulqən	Cr pʻəlpəlqən	Cv palpəlqən	Sp	thimbleberry
332.	nux "nux"	ກວາກວາ	náx ^w nəx ^w	nóx ^w nox ^w	wife
342.	tum	tum	tum, tmSam		suck

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kuw cuw kaw 346. gone BC: VW pupusénč pu?pu?sank papúsinč pa?pa?sink sad 354. mətus mátus mtsas mtos 363. kidney məcuit mácult mcSalt 381. mcolt pus yu[?]yu[?]k⁴u1 du?k[₩] ya?yak a? ye?yuk e? 388. stingy CUW cu? ca? cu? hit 395. BCI

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The Sp(okan) evidence divides the examples of this set into two subsets. one characterized by the Sp reflex o, the other u. The two Cv items (363. 381) that contain a pharyngeal, although not analyzable synchronically. point to complex forms underlain by pharyngeal roots *msVt and *msVc respectively. The shifted pharyngeals are preserved in Cv, and the original vowels assimilated. The development of the Sp forms parallels that of Cv, with subsequent loss of pharyngeals and "darkening" of the vowels.

Two other sets of cognates.

402.	Cm ?úcqa?	Cr ?ácqe?	Cv ?ácqa?	Sp ?ocqe?	go out
403.	cuyx	[?] ayx	cáyxa?	cóyxe?	crawfish

differ from the others just discussed in the Cr reflex a. and any hypothesis that explains the reflexes of two languages leaves the other two unaccounted for.

All Cv members of the subset of correspondences characterized by the Sp reflex u, have unexplained a. Two of these forms are reduplicated. complex forms (354, 388), and a third one (395) exists alongside the synonymous ci?, suggesting that the Cy root has been reformed, as if it were an ablaut pair.

In addition we must note the peculiar incongruence between the rounded consonants and their plain counterparts (Cr unrounded x, Cm rounded x^{W} in 332) opposite the case of (33) On sxatxat (unrounded x) Cr x "atx"at, (rounded x"), duck.

Cr x ^w átx	Wat (rounded	x"), duck.		1.++	le	
Sev	eral other i	tems need indiv	vidual comments.		mple	SCOMCOM
405.Cm	scuncum	Cr scomcomit	Cv sc sámcom Sp	sccuymt	boil St	han com
407.	pu?s	pos	pa?s (p?us ?)	(p [?] us)	thought	= carluple
408.	spuct	spoct	spuct	spoct	sore	
410.	huy .	həy	huy [hoy]	hoy	finish	

Sp 405 is irregular, while the other three languages show reflexes which parallel the development exemplified in 363, 381; Cv (407) s-pu²ús is almost certainly related to pa²pa²sink (cf 354, similarly Sp 407), and bespeaks the difficulty of comparing complex forms in related languages without a reconstruction of the derivational processes of each language; Cr 408 must be an irregular development which shows no trace of the factors that might have conditioned the Cr and Sp reflexes; similarly Cv 410. However, I must add that Cv [hoy] is pronounced with a singularly low vowel, which I have considered a variant of u in this form. The form in isolation is used as an interjection, with high frequency of occurrence, but also undergoes regular inflection and derivation in (usually) transitive constructions. [hoy] exists alongside x⁴uy, from which I distinguish best by noticing the rounding of the initial consonant in x⁴uy and its conspicuous absence in [hoy].

4.4. $\underbrace{*}{2}_{1}$: KS found the reflexes of $\underbrace{*}{1}_{1}$ to be (A) On i, Cr ε ; (B) On ϑ , Cr a; (C) On u, Cr a, (D) On u, Cr ε ; (E) On a, Cr a; and regularly (F) On ϑ , Cr ε . Irregular correspondences are discussed in (G).

A. Cn i, Cr . Three of the 13 pairs in this group are disyllabic with initial stress. Two Cv forms have shifted the stress to the final syllable and have lost the reflex of *a: (416) \$?i? canoe, (418) st?i? grass; the third, (424) sipi? skin has retained initial stress and unstressed i corresponding to Cm i, $Cr \in$. These correspondences parallel (320) On pis, Cr peste? nighthawk, and (321) On swa?nik, Cr sx U?neč thornberry, and here again, I think it's the unclear morphology of these items that precludes a firm understanding of the origin of the vowels. Of the remaining etymologies 6 lack Cv cognates; a pharyngeal has inexplicably intruded in (415) q^w say <u>black</u>; two forms have i: (421) miy know, and (425) wi? finish; and the last a: (426) day write. Cv wi? occurs mostly in compounds, for example wi?-s-maya?-it-s-on I'm done showing you, kon wi?-s-tax"-iq-am I'm done harvesting, rarely in complex forms like wi?-cin finish eating (with lexical suffix), more rarely in simple transitive forms like wi?-st-ip you finish it, but not in simple intransitive forms (unless way, as in k-s-way-a?x he's going to finish is the a-grade of the same root). 60

miy (strong root) exists alongside my (weak root): c-miy-st-s (<c-miy-stis) he's sure of it, c-mi-st-is (<c-miy-st-is) he knows it.

B. On a, Cr a, (Cv a). Of the 28 examples listed here, 21 represent reflexes of *a, before back consonant. Available Cv cognates corroborate KS's reconstructions: (429) kar cut, (430) kar swim, (435) yark" curved, (437) tarq kick, (439) taq lie, (440) caq set, (445) taq slap, (453) tax fast, (454) pax smart, (460) cax" instruct, (468) -alqs point, (436) x"rap shake, (463) ix pa escape (the last two with metathesis). Other Cv roots that belong with this group are weak and have not been recorded stressed, leaving the vowels unattested. In addition, still in this group, three items, disyllabic in Cm and Cr, are monosyllabic in Cv (the Cv reflex of the vowel in question has been lost): (432) On coris, Cr calus, Cv cris kingfisher, (433) məryam, marim, mrim doctor; 448. so "əso" əsa?, s-q "asq^wese?, sq^wsi?. Seven other pairs have Cm o, Cr a, for "indeterminate reasons." As KS suggest, every available Cv cognate is a pharyngeal root. thus seemingly explaining these reflexes: (469) thap shoot, (470) xhap gnaw, (473) spsac squirt, (474) ssan gentle, (475) msal (also mal) warm. Note, however, that the pharyngeal is pre-vocalic, and these purported developments of *a would not parallel those of *a. Schematically,

*?ə	Cm ə	Cra	Cv Sa	
*îa	(s)a	i	۶i	
*as	a(?)	a	as	

C,D. On u, Cr a / ε . A total of 8 examples comprise these two sets. Although some labial or labialized consonants is in each of these forms, the correspondences are not systematic, and the available Cv evidence is insufficient to clarify the relationships that hold between these pairs: (478) mq²aq² pile, (482) x²uk² cléan.

E. Cm a, Cr a. The Cv root that corresponds to the single etymology of this category exhibits ablaut, (484) piq, paq white.

F. On o, Cr ϵ . This set exemplifies the regular reflexes of $*_{0_1}$. Of the 63 Cv cognates available, a few have never been found stressed, hence their vowel is unattested: the large majority indicate that $*_{0_1}$ regularly became Cv a, and others point to special developments of several

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types. The Cv forms with the (mstressed) $> / \emptyset$ reflex of KS's reconstructed * o_1 are: (488) kom surface, (505) xt surround, (506) kot cut, (509) qs scratch, (525) xon lie, (528) xol bridge, (531) sol-p turn, (568) nk^w-one, * o_1 , Cv a in the following: (492) Samap melt, (498) wap thick growth, (499) can small, (500) ka²m take, (504) xta care, (507) csa finish, (508) kast bad, (510) qsápi? long time, (511) xast good, (514) xca bet, (516) packi leaf, (517) iac ?, (529) cal stand, (532) xlak turn, (533) x^wal live, (539) tla break, (540) plak turn, (543) k^wal warm, (546) pla thick, (547) tai straight, (548) stálem boat, (557) lak tie, (559) tax sweet, (560) kxan (?) follow, (566) lk^wa far, (572) iax^w (?)hole, (573) iax^w sew, (574) kax^w kill.

Finally, several comments need to be made about the remaining Cv cognates: five of these exist in pairs with i - a ablaut; 6 exhibit i; 3 others u; and the rest are not directly comparable. The ablaut pairs do not shed light on the development of *91, but of course need to be studied in Cv. Netathesis of C_2 with V accompanies three of the a-grade forms (pointing to i -> a): (527) milk", malk" whole, (531) slip, slap turn, (550) xi², x²a <u>level</u>, (551) k^wi², k^w²a take <u>out</u>, (570) tix^w, tax^w obtain. The six forms with i do not necessarily indicate an irregular development of $*a_1$ in Cv, but more needs to be known about the stress properties of each and of its cognates: (485) x "ip spread, (487) x i stitch, NDK. (497) q"ilom sing, (501) kim dark, (524) pa²pin fold, (542) til tear. Three Cy forms have irregular u, before a rounded consonant in each case: (564) cuk" <u>pull</u>, (567) cuk" <u>stiff</u>, (569) pux" <u>blow</u> (cf Cv 566, 572, 573, = (2⁹⁰) 574 where $*_{0_1}$ > Cv a in a similar environment). The other available Cv cognates match unstressed \circ in Cm, which corresponds to \emptyset (or epenthetic b) in Cv: (494) spittom bitterroot, (495) xmin enemy, (496) tim easy, (502) xwil road,

G. KS list 16 examples of irregular, unexplained correspondences. The available Cv cognates do not corroborate KS's hypothesis that these reflexes go back to $*a_1$: one is an ablaut pair, (577) sla, sil <u>turn</u>; two have a, (575) ta²m <u>clear</u>, (578) cal <u>cold</u>; and four i: (576) x²it <u>first</u>, (579) stkcx^wiłp <u>willowberry</u>, (582) lis² <u>fit</u>, (583) x^ws^wilx^w fox. Too many

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moki ompared vouvel

Cv forms with i derive from proto-forms reconstructed by KS with *, and this requires further study.

4.5. $\underline{*}_{2}$ (probably epenthetic). Cv rules of epenthesis given in 2 above will not shed any light on the rules of epenthesis of PEIS until similar synchronic rules have been formulated for the other languages of the interior. Consequently no discussion of Cv ϑ is relevant in this context.

5. <u>Conclusions</u>. Evidence from Cv data explains irregular developments in Cm and/or Cr in all those cases where the original has been retained in Cv, but not in one or both of the other languages. Further internal evidence (in Cm and Cr) should explain what caused the retention or loss of the original pharyngeal. Otherwise the Cv evidence confirms KS's reconstructions except for the details pointed out in this paper. The sources of the Cv vowels are: a *ə, *a; u *u; i *a, *i; best mapped as follows:



An approximate count of the frequency of IS vowels, perhaps of typological interest, is mapped thus:

	PEIS	Cm	Cr	Cv
a	42%	42%	18% [·]	48%
ε			34%	
i	14%	16%	32%	38%
е			2%	
u	14%	14%	14%	14%
Э	30%	28%		

In Cv, and probably in the other IS languages, the most pressing need is for the internal reconstruction of the ablaut system. Of special interest in Cv is the metathesis characteristic of one item of the ablaut pair.

Notes

¹Kinkade, M. Dale and Clarence Sloat. Proto-Eastern Interior Salish Vowels." IJAL 38, 26-48, 1972. My paper is meant to be read with this article at hand.

²'Back' consonants are r, uvulars and pharyngeals.

³For a discussion of this phenomenon see my paper "Pharyngeal movement in Colville and related phenomena in the Interior languages." 11th ICSL, Seattle (UW preprint, pp. 148-66).

⁴Strong suffixes are stressed. See the immediately following paragraph in the text for further discussion of stress and morpheme weight.

. ⁵Spokan forms are taken from Barry F. Carlson's unpublished <u>Spokan Dictionary</u>.

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Spokane -e- 1

Barry F. Carlson University of Victoria

0. Introduction

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- 1. The Spokane Word
- 2. Repetitive Infixation -- Suffix Stressed Forms
- 3. Repetitive Infixation -- Root Stressed Forms
- 4. Conclusion

Appendix A -- Suffix Stressed Repetitive Forms Appendix B -- Root Stressed Repetitive Forms