

ABOUT EVIDENCE FOR PROTO-SALISH \*r.<sup>1</sup>

1. In their important article Pattern and Change in Halkomelem Salish Dialects Elmendorf and Suttles describe a language-community in a part of which a regular sound-shift takes place: a sub-dialect of Musqueam merges l and n into n (p. 7). The same article discusses the Chilliwack merger of l and n into l. A large number of lexical items are quoted from Cowichan, Musqueam and Chilliwack. This article provided the basis for Kuipers' paper On Divergence, Interaction and Merging of Salish Language-Communities, where Squamish material is added, necessitating consideration of yet another shift, viz. that of l to y in part of the Sq. lexicon: Sq. // Halk. correspondences comprise 53 cases of l // l and 28 of y // l (now raised to 59 and 34). It is shown that shifts regular in particular dialects occur incidentally in others. The Suttles-Elmendorf article gave a close-up of the sociolinguistic situation which gave rise to such deviations, and it contained sufficient material for an analysis of the Sq. // Halk. relations, providing an explanation, for instance, of occasional n-forms in other Halk. dialects and in Sq. For Sq. the conclusion was that it is a mixed l-and-y language. Similar occasional deviations were shown to occur in the whole Salish area.

2. In Towards a Salish Etymological Dictionary (henceforth SED) Kuipers lists 157 Proto-Salish (PS) roots. To avoid pitfalls caused by incidental shifts, borrowing, etc., the etymologies were "limited to root-morphemes with perfect cons.-correspondences" (p. 47). Part of the reconstructed phonology is as follows (Thompson added, see 3 below):

<u>PS</u>	*r	*l	*y
<u>CdA.</u>	r	l	y (d)
<u>Kal., Sh.</u>	l	l	y
<u>Sq.</u>	l/y	l/y	y
<u>Th.</u>	l	y	z (glott. also č ž)

3. In their paper Proto-Salish \*r (henceforth PSR) Kinkade and Thompson make an interesting attempt to add to the number of known PS roots with \*r, the evidence for which was thus far limited to that provided by the languages which preserve \*r as r. Starting from the observation that the Th. shift of \*l to y took place earlier than that of \*r to l, they conclude that Th. l gives a degree of evidence for PS \*r. Six examples (numbered 1-6) show Th. cases with l where CdA., etc., have r (to these may be ad-

We did not attempt to be exhaustive.

ded Th. relámen medicine // Cda. mar-im treat for illness).

The next step is the observation that in the languages which preserve \*r as r, this phoneme occurs only as C<sub>2</sub> in roots C<sub>1</sub>VC<sub>2</sub>(C<sub>3</sub>), and this only when C<sub>1</sub> is not a uvular. Since Th. has the distinction y vs. l also in other positions, the Th. elements with l in these cases are taken as evidence for PS \*r (exx. 7-9 for \*rVC<sub>2</sub>, 10-12 for \*C<sub>1</sub>Vr, 14-16 for suffixes).

This reasoning would be convincing if every Th. l as C<sub>2</sub> after a non-uvular which has a Cda. counterpart would be matched by r. The authors state that this is the case: "An examination of the cases in which C<sub>2</sub> of stems shows the correspondence Th. l to l elsewhere reveals that the forms contain also postvelars as C<sub>1</sub>." However, a limited material yields the following examples with a non-uvular as C<sub>1</sub>:

cm. kəl'kɪl'x áwš  
'lizard'

(1) Th. skəkəl'éx°e° muskrat (cf. also kəl'x°éwəsxən lizard) // Cda. čélex° muskrat (with the common Cda. stress-shift). The word is widespread in Salish and is even found (borrowed?) in Wakashan, cf. Kwa. kəlák°.

cm. kw'šl'  
'warm'

(2) Th. nk°elk°él lukewarm // Cda. k°el be hot, sunny, warm. -- Sh. xk°lk°el lukewarm has the prefix x- corresponding morphologically to Th. n-.

Th. kw'í-  
k'íj'š-  
'warm, toast'

cm. čəl-čəl-  
'stand'

Th. čí-  
čiy'š-p  
'stand'

(3) Th. čəlx°íyx to squat // Cda. čel one stands. -- Sh. V'čl to stand up (čl-ilx to get up, čl-ewt to stand), with extensions in člx- to stand up, člx°- to stand, rest on stg. (s-člux° standing, člx°-um to raise a structure, °s-tk-člux° to land on one's feet, člx°-fləp chair, člx°-ikn' saddle, etc.). No \*člx°-ilx (cf. the Th. form) was recorded.

In these examples Th. has l as C<sub>2</sub> corresponding to Cda. l in a position where l is opposed to r. Hence Th. l in any position cannot without further adstruction be regarded as sure evidence for PS \*r.

4. In PSR the number of PS roots with \*r is further increased by regarding Sq. l as evidence for \*r. Given the large number of the Sq. l-forms, it is not surprising to find Sq. cases with l corresponding to Cda. r. Kin-kade and Thompson quote SED 81, 20, 128 (PSR 3, 4, 6) and, in addition, four cases where Sq. l corresponds to Th. l unsupported by Cda. (PSR 7, 8, 11, 12). Of these, 11 is semantically unacceptable (PS \*cribbed // Sq. write) while 8 Sq. lúlum to sing is more likely to be connected with Cda. dul sing war-song than with a PIS root ?\*riwé- rumble, clatter, ring. The two other examples are 7 Sq. láp'- warped, skew // Th. láp'- bend (stg.) over and 12 Sq. q'əlyá take a steambath // Th. n'q'əlyá sweathouse.

to AHK  
sq. l-cr y?

5. The material given in SED contains the following numbers of cases with

Sq. (1, y) going back to PS (\*r, \*l) (the "regular" correspondences required by the theory are underlined):

- PS \*r 4 cases // Sq. l 3 cases (SED 20, 81, 128)
  - // Sq. y 1 case (SED e)
- PS \*l 15 cases // Sq. l 10 cases (SED 7, 47, 48, 61, 66, 95, 107, 112-113, 122)
  - // Sq. y 5 cases (SED 13, 30, 62, 89, 101)

5.1 The Sq. case with y from \*r is

(4) Sq. pipíám overflow (V<sup>3</sup>péy) // CdA. pér flood, be in excess, overflow (PSR 21).

This counter-example is explained as due to a doublet in PS (and another doublet is posited because of Th. səl- turn and siyé- twist PSR 20). But one can posit doublets in a proto-language only on the basis of a well-established theory, while here the doublets are posited to establish the theory! It would then be better to assume a doublet or shift (due to borrowing, dissimilation, etc.) in the individual languages. For possible examples of such cases see On Divergence p. 10; cf. also Sh. x<sup>o</sup>ex<sup>o</sup>yéywt loan (V<sup>o</sup>x<sup>o</sup>ey) and Kal. xulx<sup>o</sup>flt debt, CdA. x<sup>o</sup>el be alive and Kal. x<sup>o</sup>i(?) id. Other examples in 7 below.

cf. articles on consonantal symbolism

cf. x<sup>o</sup>ax<sup>o</sup>il- 'owe'

cf. x<sup>o</sup>s(xwəl-t 'alive')

5.2 As to the cases with Sq. l from \*l, though this is by far the largest category, in PSR the view is taken that these "can reasonably have been borrowed from l-languages, which surround Squamish" (p. 48). But this is not likely, and that not even so much because of the number of these cases, but because of their status in the language. Examples:

(5) Sq. V<sup>o</sup> q<sup>o</sup>al, q<sup>o</sup>el think, mind, speak (q<sup>o</sup>lq<sup>o</sup>álwan think, plan, sq<sup>o</sup>álwan mind, heart (spiritual), opinion, q<sup>o</sup>éiq<sup>o</sup>el talk excessively, nq<sup>o</sup>eltn voice) (SED 107).

cf. q<sup>o</sup>ál-m 'power song'

(6) Sq. V<sup>o</sup>q<sup>o</sup>el ripe, cooked, done; berry (q<sup>o</sup>el be cooked, q<sup>o</sup>elt to cook, sq<sup>o</sup>élm roast salmon, nq<sup>o</sup>íq<sup>o</sup>lus stick for roasting salmon; sq<sup>o</sup>lam berry, sq<sup>o</sup>élmx<sup>o</sup> blackberry) (SED 112-113).

Ablaut and derivatives speak against borrowed status here. Cf (5), a y-form occurs only in q<sup>o</sup>f<sup>o</sup>q<sup>o</sup>i(s) talk (to) and nex<sup>o</sup>sq<sup>o</sup>f<sup>o</sup>q<sup>o</sup>i talkative, of (6) no y-form is found at all in Sq. On the other hand, Sq. has quite isolated morphemes with l from \*l which are more likely to be relicts than loans:

(7) Sq. q<sup>o</sup>i-flš to dance. The Sq. formation corresponds exactly to Sh. q<sup>o</sup>y-ilx id. (lit. shake the body). Th. has the suffix -íyx, cf. (3) but for to dance has q<sup>o</sup>eýcút (lit. shake oneself; ý remains bef. cons.). Sq. has -ilš otherwise only in lšilš to stand up (red. lšlšilš). Neither of these words is likely to be a borrowing.

cf. se q<sup>o</sup>wiyilš 'dance'

cf. He tšéylas 'why not?'

Cm. p'alk'-  
'turn over'  
Cm. p'arq'-  
'turn up'  
Th. piy'iq'  
'turned in the  
wrong direction'

(8) Sq. plačm "turned-over" (canoe). This root is not otherwise found in Sq., but plač- is to Sh. plek' to roll as is Sq. qiačkan stockade to Sh. qlečm fortress, c-qleč round (for Sh. deglottalization see SED p. 48). The two cases, one with l and one with y, are perfectly parallel. (SED 101)

(9) Sq. si'l grandparent (si'la "granny"). This word, a common Salish relationship term, is very unlikely to be a borrowing. (SED 48)

6. Given that Th. l after uvular points to \*r, and Sq. y to \*l, another group of cases to be explained are those with Sq. y // Th. l:

cf. Th. q'waz-  
'blue'

(10) Sq. q'eyq'ey copper // Th. sq'li' id.

(11) Sq. qey bad (qi-?ucin to curse, etc.) // Th. q(e)lil angry; to bawl out.

(12) Sq. wiq'i go downstream // Th. wiq'el id.

These, like the examples (1-3) above, would have to be explained as Th. borrowings from an l-language.

7. The one case where the loan-status of a Sq. word with l is adstruced in PSR is 22 Sq. čl'raqł // Colm. plaqel (Th. spi'héwt) yesterday, where Sq. č might point to borrowing from Straits. But precisely this case can serve to illustrate the "occasional shifts" mentioned in section 1.

An interchange of l and n, regular in parts of Halk., occurs occasionally in IS, cf. Sh. celčl cricket // Cda. čaččēn grasshopper, Sh. ?ek'on fish roe // Cda. ik'ul id. In a number of cases this interchange is due to dissimilation, e.g. Sh. pūn-lex° mole (zool.) // Cda. pul-ye gopher, pul-ya-hal mole; such cases are found within Sh. itself, e.g. V-lg° to hide and ng°-ilx to hide oneself, V-?alk° to ache and nk°-p-aixkx rheumatism.

cf. Cm. sarsar  
'cricket'  
Cm. čaččēn  
'grasshopper'  
Cm. pūl'ya  
'gopher, mole'

cf. Cm. s'atwan  
~ s'atwal  
'goose or crane'  
Cm. nkič'at  
~ lkič'alt  
'spouse's gopher'

The l in Colm. plaqel shows a similar shift from (less likely, to) l, cf. Sh. pn-hé?e when?, pn-?éne at that time, etc. The element pi?- in Th. spi'héwt/spi'xéwt yesterday, tomorrow (dep. on article) recurs in Th. pi'sté? when? and possibly in Sh. pyin now, with still another shift. If in the temporal-deictic root \*p(a)n- the n is old (as is suggested by Cda. s-pintč year, pin(t)č always, Kal pen(tə)č year, Sq. k'i t-pánu next year, Pug. padáb period, time), then we don't have a PS \*l here. If one rejects this identification, then Th. pi?- is first of all reminiscent of Kal. pi:- in spi:sčé yesterday, pi:stém when? (which parallels Th. pi'sté?). Kal. preserves \*l; Vogt's (always unstressed) i: represents ey. We have, then, three forms of this deictic element: pn-, pl-, py-. Nor is

I doubt this.  
cf. Cm. pan-

cf. Cm. q'w'iy'blue',  
q'w'in 'green',  
q'walli 'blackskin horse with  
black mane'

this case isolated, cf. Cda. q°in be blue, q°el be livid, bluish, angry,

and Hal. q°ay blue, green, Sh. q°iy-, q°ay- blue, purple, Th. q°ez- blue.

Even the correspondence p p // & c may occur outside its "regular" area, cf. Sq. ʒéli? thin bark, Sh. ʒelén bark // Cdi. čel be bark, Hal. čil?lélx° bark of tree.<sup>2</sup> The whole first part of Sq. čl?aqł poses too many problems to serve, by itself, as a basis for any conclusions.

These turn out not to correspond; cf. Ok. Ri?lilx°, Th. kázéj 'fine bark'

8. The cases (1-12) must be dealt with before any new PS reconstructions based on Th. (let alone Sq.) are attempted. The Th. l-y distinction requires an explanation, and a number of cases clearly go back to \*r-1. The Sq. l-y distinction, on the other hand, cannot be explained in this way, nor can it serve to establish PS \*r. For the more Sq. forms with l from \*l are assumed to be borrowings, the greater the likelihood that any word with l is a borrowing, since the l-dialects don't distinguish between l from \*l and l from \*r. Hence, as one stresses the likelihood of borrowing -- and PSR goes quite far in this -- one decreases the indicative force of cases like Sq. láp- (sect. 4, end). The argumentation is therefore self-defeating. The most one can say about such cases is that they do not contradict a particular reconstruction. Since the r-languages likewise cannot contradict the reconstruction (not having a distinction r-l in the positions in question), the Th. evidence must stand entirely on its own. Counter-examples must be explained, and different explanations will be possible for different words, and here, again, the "least favorable" explanation will be the one that declares a Th. l-form to be a borrowing, as the more such cases there are, the more the remaining instances will be suspect.

I don't see that this follows. And the same argument might be based on dialect mixing, which, after all, is just borrowing from another dialect.

some of them?

But not if proposed by K&T?

Not necessarily so, since \*r seems not to have been common.

9. The diagnostic value of Th. l for PS \*r would be greater if it could be proved that Sq. has a double representation y/l not only for \*l but also for \*r. This would first of all eliminate cases (5-9), the discussion on the status of Sq. l-forms no longer being relevant. Case (4), far from causing problems, supports this view, which would also remove points (10-12), leaving only (1-3). Only one more example which could be used in support of Sq. y from \*r has been found: the Lill. cognate of (11) is qel bad, which takes the "darkened" form of the suffix in n-ql-átk°e bad water (-étk°e), n-ql-ánwes to hate (-énwes). In Sh., such darkened suffixes point to l from \*r. But it is more probable that the root qel was borrowed by Lill. and Th. We find darkened vowels also in other borrowings, e.g. o (not u) in Lill. k°óşo pig, Th. poş cat (ş is [s], s is [š]). The language from which qel was borrowed may have had a slightly different pronunciation of el in general than was the case in the borrowing languages, which identified this el with their el from \*er after non-uvulars.

on the contrary!

He ʒəl why?

But darkened vowels also occur in native words.

10. We now turn to Interior Salish. As lack of initial r- is not uncommon, while the exclusion of r after back consonants is either unique or very rare, the more likely cases where PS \*r might be reconstructed are those with Th. qvl- (q = back cons.). In PSR three such cases are presented (PSR 10-12), but two of these raise serious doubts:

(13) Th. n-ǰǰizeten sweathouse // Cda. liq- bake [error for bury?] (with metathesis), Kal. se-láqist sweat-bath (with metathesis) (PSR 12).

Cf. also Kal. es-láqi be buried, be in the sweatbath (laq to bury, Sh. liq- Colm. liq-), Sh. qilye take a sweatbath.

(14) Th. q°il- cheat // Cda. q°il- id. (PSR 10).

In (13) we are faced with two (or three?) meanings, and with a troublesome metathesis of \*qil- which would yield liq- (Reichard's láq) in Cda. but laq in Kal. This is not the sort of case that can establish a theory. Furthermore, the Th. root meaning to bury is yeq- (and not leq-), which makes the case problematic even if the metathesis is accepted. -- As to (14), it is as possible to allow doublets in Th. as in PS, in which case the root can be connected with Vq°al- (see (5) above), as can Cda. q°ilem to sing.

11. There is a more fundamental difficulty. In IS, the l-languages have in part different vowels before l from \*r than before l from \*l. For example, Sh. reflects \*al \*il as el il but \*ar \*ir as al el (so that \*al and \*ir coincide). A number of Sh. verbs with overall meaning "dismantle" have alternative suffix- and root-stressed forms, the latter having the vowel i. Examples: plq°-/pílq°- break off, tlix°-/tílix°- rip at seam, iǰ-/íiǰ- sell out, iǰ°-/íiǰ°- lose, ki-/kíi- take off (as clothes), tq°-/tíq°- strike, kill, qw-/qíw- break, pl-/píl- lose. To this group also belong kíl-/kél- cut into strips, sl-/sél- peel, x°l-/x°él- divert water, which go back to \*k(i)r-, \*s(i)r-, \*x°(i)r-; for the first of these cf. Cda. čar cut flimsy object with shears and PSR (2), where the Th. form is quoted as kél-, besides which we recorded kílem cut strips of skin, that is, (part off?) Th. has the same ablaut, but here the l from \*r did not color the vowel.

The Sh. words with l from \*r have another peculiarity: on the whole, they take suffixes in their "darkened" form, i.e. suffixes which otherwise have e i u appear with a e o instead. The 3 subj. - 3 obj. trans. form of plq°-, etc., above is plq°-nt-és, but that of kíl-, sl-, x°l- is kíl-nt-ás, sl-nt-ás, x°l-nt-ás. From this it follows that a darkened suffix by itself, i.e. without support of a root-stressed ablaut-form, gives a degree of evidence for l from \*r as C2. Thus, Sh. čls-ám to oil (intrans -ém) points to \*črs-. Sq. čels be shiny does not contradict, and its meaning suggests a connection with Sh. sčals Oregon grape (has holly-like leaves), cf. also

no  
diff. etym.  
AK adds the 3d  
No  
there are many cases of metathesis.  
bury' is not the same etym.  
why Th? No Th equate for gwál- as been given. But since Cm has both gwíl- 'cheat' & gwál- 'sing', it would appear both have to be reconstructed. Both would be gwíl- in Cm.  
f. Cm sčr- 'peel, pull off'  
Cm sčirs 'current'

now that Cm. ... coloring (vocalization?). Alternation of the Sh type (e i vs. a e) does not occur in Cm.

the darkened vowel in óls-álp O. grape bush (-élp). Th. has scáise O. grape, with í and darkened vowel. On this cumulative evidence a PS ŕčvr- shiny may be tentatively posited. It is probable that we have a "Schwebe-ablaut" form \*črVs- in Sh. ólas Th. óelés kingfisher (PSR no. 19; the UChah. Cowl. form óelém suggests that \*-(V)s is a suffix), and here r actually appears in the r-languages (Colm. čerís). Sh. has, in addition, tk-clás-t soaking wet, and the semantic connection "shiny - oily - wet" recurs in Cda. nas wet Sq. s-nés-qn hair-oil Cw. s-nés-šen marrow, s-nas fat.

Hardly related.

There are two more groups of cases where darkened vowels occur, and here they are not conditioned by l from \*r (nor by back consonants). In the first place they are found in roots, e.g. Cda. nas wet, Sh. stám easy, Lill. pamp fast. In the second place, certain roots require them in suffixes, e.g. Sh. ka- bad ks-álce mean at heart (-élce), ks-os ugly-looking (-ús).

Correlated with the appearance of darkened vowels is the occurrence of "sharp s" (written š) in Lill. and Th., both in cases with l from \*r (Th. škál buckskin) and in cases without (Lill. štot cricket).

The appearance of darkened vowels and of š is not regular: Th. kilem quoted above shows that ablaut patterns have led to eliminations by analogy. Sh. lacks š but is more conservative than Th. as regards the darkened vowels.

? Cm has both.

12. We are now in a position to state the problem posed by reconstructions of the type \*Qir- (Q=uvular). The question arises why \*r leaves no darkening effect on the vowel in any IS language here. One would have to assume either that \*r and \*l coincided after Q b e f o r e the \*r that was left in other positions started having a darkening effect, or that this effect never arose or was eliminated after Q. Both alternatives give rise to new questions. How did \*r in the other positions get its darkening feature? What did this feature consist of? (Danish uvular r lowers preceding vowels, but living IS r is not uvular). Why was the feature barred or eliminated by preceding Q? And in general, why should r and l merge after Q but not elsewhere? Notice also, as a matter of detail, that neither of the above alternatives allows the explanation "l from \*r" for Lill. qel quoted in 9. The whole traditional "l from \*r" theory is fraught with difficulties.

Good question.

Dissimilation - both are +back.

Since \*r always has the darkening effect, while darkened vowels may occur without \*r, the question should be asked whether \*r cannot be explained as a result of a "darkening feature" rather than be considered a cause of it. It will be shown that this "r from \*l" hypothesis has many advantages over its opposite.

Interesting idea. But note that at least in Cm l also occurs both before and after darkened vowels. Offhand, I know of no cases of r with a darkened vowel.

13. Let the symbol A stand for any darkened vowel in the individual languages, and let PS roots \*C<sub>1</sub>VC<sub>2</sub> be symbolized as follows:

C : any consonant                      l : l  
 T : any non-back cons.                V : any (plain) vowel  
 Q : any back cons.                    ! : the "darkening" feature

The "r from \*l" theory implies the following developments:

- \*TVT gives TVT
- \*TV!T gives TAT Cda. nas, etc. (see 11)
- \*TVl gives TVl Cda. s-čil quarry Th. key- pursue
- \*TV!l gives TA<sup>F</sup>/<sub>1</sub> Cda. čar Th. š-kal (see 11)
- \*QVT } gives QVT
- (\*QV!T) }
- \*QVl } gives QVl Cda. q°il- sing; cheat Th. q°ey- speak
- (\*QV!l) }

The only hypotheses this theory needs are (a) that Th. extended the occurrence of l and (b) that V! either did not occur after Q or lost its feature "!" to Q. It is possible, therefore, to select for "!" any feature which would be phonetically likely to be thus influenced by Q. The theory implies several consequences, which will be discussed in the next sections.

14. Requirement (A) is that Cda. must have no roots TAL (except, of course, in TALQ, where A is due to the following Q). Reichard's Stem-List gives ca. 70 cases of roots TVl(T), of which only two have the "excluded" shape: ma<sup>l</sup> be uncomfortably warm and ma<sup>l</sup> come to a boil. Since these may be identified, there is really only one counter-example, which may well be due to a special development (Kinkade and Sloat 1972 quote this root as má<sup>l</sup>i (no. 37)).

*Cm has at least 4 (other) instances of darkened vowels before l.  
 4 in Cm } = 5  
 1 in Cr }*

15. Requirement (B) is that there must be no IS roots QAl-. In Sh. there are no roots having this shape, nor have any been quoted for Th., where our material contains none. In Cda., out of 13 roots QVl two (once more homophonous ones) have this shape: šal redhot and šal spy (but not šal lay evenly // Th. ?es-šél cribbed PSR no. 11). One notes the total absence of roots Qol, which is no argument in favor of our theory, however, as there is no Qul either (this is significant in the context of the labialized vowel - consonant problem, which is not at issue here). In any case, the two Cda. counter-examples stand alone in the whole of IS.<sup>4</sup>

16. Requirement (C) is that those languages which merge !l and l should tend to preserve the difference V! versus V, i.e. they should have an opposition Al - Vl, while on the other hand those languages which keep !l and l distinct should tend to lose the distinction of V! vs. V, i.e. they should reduce or not develop A before the reflexes of \*!l. For whereas the result of \*TVT vs. \*TV!T yields a distinctive vowel-opposition V - A, the

*But note again that Cm has darkened vowels before l but not r.*

result of \*TVl vs. \*TV!l is first of all Vl vs. V'l', where ' indicates the variants of V and l required by "!", variants that became jointly distinctive after the loss of "!" -- a redundancy that could be solved in favor either of V' or of l'. The existing languages fully bear out this requirement. Sh., which merges !l and l into l, keeps a distinction of Al (al el ol) versus Vl (el il ul); in Cda., on the other hand, there are only three possible vowels before r (ar er or) and three before l (el il ul) -- the traditional way of writing Cda. vowels masks the phonemic relations, which are better represented (er ir ur el il ul). According to PSR p. 42, "Spokane, for the most part, has the regular reflexes of PIS vowels before r" -- here the redundancy is solved maximally in favor of l'. Th. shows an embryonic shift of l' to r (PSR p. 45) but the development became superfluous after the shift of plain l to y, which at the same time made possible a reduction of the incidence of A (PSR p. 51), though Th. does preserve the redundancy V'l' in a number of cases. Note that a Th. word like ḡpálmén calf of leg has a double redundancy in having both ḡ and a instead of s and e.

I don't understand this par.

not exhaustive

not so, eh?

not a doublet

17. Requirement (D) is that the Th. cases with l in positions where l' did not occur must be explainable as borrowings or as results of special developments. In particular, Th. l at the beginning of a word must be of limited occurrence. -- The general part of this requirement is easily met: PSR lists only 7 cases of "irregular" Th. l, of which three as C<sub>2</sub> after q (nos. 10-12) and four as C<sub>1</sub> (nos. 7-9, 17). After the l-to-y shift, the distribution of Th. l was limited to TVl (to the exclusion of QVl and lVC), and in the history of languages there are many examples of such distributional gaps being filled. Precisely this sort of situation can account for a doublet q°Vy-/q°Vl- (no. (14) above).

The second part of requirement (D) is borne out by our Th. material, which, though limited, is large enough to show significant differences. This material contains 10 examples of initial y- from \*l- and 6 with initial l-. The difference between the two groups of cases is striking (see Lists 1 and 2 below). The cases of y- are with one exception verbal roots well-integrated in the conjugational and derivational system of the language. The cases with l, on the other hand, do not contain any such root: two concern (within our material) isolated derivatives, and four are nouns with botanical or zoological meanings. It is instructive to compare Th. V̄yiḡ- in yəḡ-yíḡ smart, intelligent and V̄liḡ- in liḡ-kst finger, liḡ-xen toe. We find the first in Sh. lḡ-em inform (with numerous derivatives), leḡ-líḡ sober, x-leḡ-líḡ clear (water), Cda. laḡ lighten, be electric, Pug. laḡ remember, leḡ be light. (The second example of Th. l-

not in a bot. or zool. noun n-leḡ°-leḡ°-étka clear water is either a mis-recording or a changed form of this same root, cf. also Lill. n-leḡ°-leḡ° clear (of water)). The second root recurs in Sh. leḡ°-liḡ°-kst finger, leḡ°-liḡ°-xn toe, Sq. níḡ°-q°uy°-ač, níḡ°-q°uy°-šn id., Cw. s-néḡ°-čes, s-néḡ°-šen id. (Here one might be tempted to conclude that Th. l and y have different reflexes in other languages, and one could support this view by quoting Lill. -énwes heart // Th. -élus/-álus id. (PSR 15); however, we find other cases of interchange n - y, see 7 above and cf. Sech. yík°usen one's head // Sq. níḡ°usm id. -- the Cowl. case yápa- bend down (a branch) // Th. láp°- id. (PSR p. 50) by itself means no more than the incidental northern cases with n, for which the Elmendorf-Suttles article has provided the explanation.)

doubtful

The meanings of Th. yiḡ°- and liḡ°- are easily connected via the notion "show, point", cf. Gr. deíknumi show Lat. dico say, digitus finger, Germ. Zehe toe (from the same IE \*deik°- Engl. teach, token) and Germ. weisen point, weise wise, unterweisen teach (ultimately from IE \*weid°- see). The case is comparable to that of Th. q°il- cheat vs. q°ey- speak, for which we may quote Lat. calo call, proclaim, clarus clear calvor cheat (Engl. calumny), Germ. hell clear (IE \*kel°- call). The very interchange of sonants has parallels in IE, cf. Russ. klik call, krik shout; in fact, even the triplets mentioned in 7 are matched by Gr. kaléō Lat. calo call, Gr. kanaxē noise Lat. cano sing and Lat. carmen song (dissim. from \*can-men).

On informants suggest this liḡ°- means 'spread out'.

18. Requirement (E) is that the type TAT be represented by identical roots in the individual languages. The number of examples is not large, but sufficient to show that A in these cases goes back to a feature of the parent-language. But whether this feature was "!" as defined in 13 remains to be determined. It is remarkable that the more widespread roots of this type have similar shapes: they have m and one of the phonemes č or ě as their first two consonants. However, requirement (E) is not necessary for the "r from \*l" theory as such but only for bringing all cases of A under a common denominator. Examples of TAT (darkened suffixes are counted as evidence for the darkening feature in roots): Sh. mál°pe° wasp, blackjacket (A is a rare darkened vowel) // CdA. mačp bee, wasp; Lill. máčel pus // CdA. máčult id.; Sh. s-x-čml-ós matter in eye (-us) // CdA. sčomčomlt a boil; to this group with m and č also belongs Kal. sčom bone // CdA. sčam id. (Cw. sčam°); Lill. mečus-ánk-ten kidneys (-enk) // CdA. mótus kidney; Sh. stámalt/stamált cattle // CdA. stámá(ltumš) cow (Kal. stémá); close to this group with m and ě is Kal. mo°ot to smoke, fume // CdA. mo°t smoke; isolated is the case Sh. c-lac soaked, all wet // CdA.

They aren't, cf. 'snot'

On sčm- +ame+lac one drop falls; further Kal. saň be tame // CdA. saň id.; Kal. nos

cm snis 'snot' be snotty // Cda. snos snot; Kal. hoi to quit doing // Cda. hoi cease.

19. In section 11 a PS root with "Schwebe-ablaut" \*čVrs-/črVs- was reconstructed; the present theory changes this to \*čVrls-/črlVs-. In PSR (no. 18) Sq. ččel, Halk. čecéle kingfisher are added to this nest of words, and the root is reconstructed as \*čker- (?). This would be an unusual type of PS root, and no parallels are given for the dropping of \*k in Th. čelés, etc. The

Not at all. Some of AK's objections are based on ideas presented but questioned in the presentation.

"l from \*r" theory is based on too many problematic cases. The "r from \*l" theory can simply deny that the Sq. and Halk. words are related to the PS root, but also allows the hypothesis that "l" under certain conditions (say, of stress) leaves k as a trace. One would then have to assume a development \*čl- > čkl- (which would yield the Sq., Halk. forms for kingfisher), and as a parallel one could point to the irregular correspondence Sq. máčul // Halk. (Cw.) mčel pus (Cda. máčul, see 18). The PS form must have had \*č (as in Sq. and Cda.) of which the regular Halk. reflex is č (as in kingfisher above) -- instead, we find Halk. č which continues \*č. In our theory, the PS form was \*mVč-, and it is possible to imagine a development \*mč- (parallel to čkl- above) > \*mčč- > mč- (Halk. meč-). -- But this is speculation, and speculations are possible for the "l from \*r" theory, too: the Bella Coola word for pus is mčl-ta, whose "extra" n could be interpreted as a change from l, upon which interpretation one could try to build an "A from \*r" theory by positing an older PS \*mrč- (a development sonant > vowel is quite common in Salish: Eastern Sh. e from nasals, Bella Coola a from n, and everywhere i, u from y, w).

And rather ad hoc.

sp, Ti, ch i < n

20. Speculations aside, our conclusion is that r in Salish is strictly secondary, a result of a special development in a limited area. The advantages of the "r from \*l" theory are here summed up:

(a) Instead of having to explain why \*r and \*l merged after Q, it assumes a feature "l", reconstructed in abstracto, so that its non-occurrence (or disappearance) after Q, rather than causing problems, can be used to determine its phonetic nature (one can think of a series of pharyngealized vowels, of an "emphatic" glottal stop, etc.).

(b) No explanation is necessary of how \*r first acquired and then lost its darkening feature.

(c) There are no problems of relative chronology (see 12, first par.). The authors of PSR go no further than saying that the conversion of r to l must, and that the effect on neighboring vowels may have been recent (p. 50-51). But absolute time-depth solves no problems of relative chronology, and assuming the time-depth to be small only accentuates these problems.

(d) The theory has, above all, the advantage of simplicity: instead of

= (b) ?

assuming both \*r and an (arising and disappearing) darkening effect, it assumes only a constant darkening feature (from which r follows). No more entities are posited than are strictly necessary. For Sh., Lill., Th. "Al" it is not necessary to reconstruct \*Vr, as it can be immediately derived from \*Vil.

21. Though our conclusions are in almost every respect the reverse of those of PSR, one truth remains unaltered: the Th. distinction l - y gives a degree of evidence for a phonemic difference in PS -- whether this be called \*r vs. \*l or \*!l vs. \*l. The immediate task, then, is to exploit this evidence for the reconstruction of PS. Since Th. clearly has both borrowed and self-created l-forms, it is necessary to analyse and categorize these so as to arrive at a maximally significant residue. The cases of Th. initial l suggest that the language borrowed a number of botanical and zoological names (see 17), and this would explain counter-example (1) in section 2. The darkened vowel in láp- (PSR no. 7) may be of the same nature as the darkening effect of Lill. qel on suffixes (see 9). The l in Th. čelx<sup>o</sup>iyx (counter-example (3) above) may be due to dissimilation. The cases PSR no. 8 Th. lowá-knock, hammer and no. 9 ləxt (fish, meat) is improperly cooked, has bloody taste, le<sup>o</sup>ix get slimy suggest that Th. l has an imitative-emotive value (cf. Engl. sl- in slap, slam; slush, slobber, etc.). The doublets q<sup>o</sup>il-/q<sup>o</sup>ey- and lix-/yix-, with their semantic differentiation, form yet another category. Only a detailed analysis of the lexicon can lead to positive results here.

Th. is clearly a y-language, i.e., its regular reflex of PS \*l is y, and once its spurious l-forms have been isolated, the remaining ones can be considered evidence for PS \*!l. The Sq. case is more complex. If the y-component of Sq. were of the Th. type, there might be l-forms belonging to this component which go back to \*!l. But since Sq. also has an l-component, it is impossible to prove this in any particular case, as any individual word with l may belong to the l-component (see section 8).

Appended to this report are a number of lists. These are meant to serve as an adstruction to the above conclusions, and also to provide material for further research. The lists are the following:

1. Thompson initial y-
2. Thompson initial l-
3. Lillooet darkened vowels, ɣ and ɟ
4. Sechelt // Squamish corr. l // y
5. Sechelt // Squamish corr. l // l
6. Halkomelem // Squamish corr. l // y (additions to On Divergence p. 7)
7. Halkomelem // Squamish corr. l // l

For Shuswap darkened vowels see Kuipers, The Shuswap Language (forthcoming) sect. 4.

3 ?  
Th only ->  
from fmg-y?  
nonsense  
not doublets

LIST 1.

Thompson initial y-

	V̄ye(?)	<u>good</u> (y'e <u>good</u> yewi'x <u>recover</u> ye'mins <u>likes</u> )	Sh. le' (cf.? Sq. V̄'ey-)
	V̄yép-	<u>squeeze</u> in hand	Sh. líp-
cm lám- 'glad'	V̄yém-	<u>pacify</u> (a child)	Sh. léa- <u>comfort, console</u>
	V̄yén-	<u>feel</u> (y'éns <u>feels</u> )	Sh. lén-
	V̄yeq-	<u>hay</u> (yeqém <u>to hay</u> syéqem <u>grass</u> )	
cm líq- 'cover w/dirt'	V̄yéq-	<u>bury</u>	Sh. líq-
	V̄yoč-	<u>drag</u>	Sh. líč-
	V̄yeğ°-	<u>hide</u>	Sh. líğ°-
cm ləw- 'put over'	V̄yeğ°-	<u>come loose</u> (y'eg°)	Sh. líğ°- (cf.? Sq. yeğ°- <u>free, loose</u> )
	yeḫ-yiḫ	<u>smart, intelligent</u>	Sh. leḫ-líḫ <u>sober</u>

LIST 2.

Thompson initial l-

cm líx-	liḫ-kst; -xen	<u>finger, toe</u>	Sh. lḫ-liḫ-kst; -xn <u>id.</u>
	n-loḫ°-loḫ°-étku	<u>clear water</u>	(see sect. 17)
	sləḫ°éyoxken	<u>moose</u>	Sh. slx°eyxm <u>caribou</u> (ḫ° - x° <u>sic</u> )
	ləhéč	<u>otter</u>	Sh. lheč
	léci°	<u>unidentif. plant</u>	Sh. líléc° <u>desert lily</u>
	sléwč	<u>inner cedar bark</u>	Sq. slóway <u>thin bark</u>

LIST 3.

Lillooet darkened vowels, ɣ, ɟ and ɭ

(Lillooet has three darkened vowels: a o ʌ, the latter very rare. These turn an adjacent s, c into "sharp" ɣ, ɟ (glott. č is always "sharp") and an adjacent l into "thick" ɭ. The ɭ of a reduplication-syllable remains "thick" before e. In a few words with darkened vowels ɣ is found not immediately adjacent to the latter, and ɭ occurs in two words before i).

	u	pamp	fast	pepéla	to swing
		pál-pel-t	stubborn	n-pepéla-ten	a swing
in spármen 'muscle'		spálmen	calf of leg	splant	skunk
in məčútt		máčč	pus	məčəš-ánk-ten	kidneys
		táke?	tongue	ɣl-álc	steep rock
		čəp	sour	sšem-ált	cattle
in snárkw 'Clark's nutcracker'		nálc°	Clark's crow	ká-álc	to mud a house
íkl'ik 'sparrow hawk'		lək-lákik	ptarmigan	čk°əla°qín	strawberry roan
		šál-xel	to bite	k°čk°lam	to stagger
		s-kal	leather	xla?	raven
		x°al	to hurry	sweláps	mountain sheep

cm kura'qín  
'red roan'

(qəl	bad:)	k°olít	brass	
n-ql-átk°e	bad water	čk°olíy	sorrel horse	
n-ql-ánwes	to hate sb.	sk°ék°oi	a yellow-chested bird	
n-ql-álče	bad-tempered	nek°oi	butterfly	
o pšos	wild cherry	k°óšo	pig Cm kwosó	
qól-lex	to reach	k°óiče°	wren	
čóí-čoi	Oregon grape	máčoí	pus Cm macútt	
čoi-čoi	bitter	kq°óša	to urinate	
spcl	slide	nq°elonétk°e	"moss in water"	
stot	cricket	^ p-páš-qs	nose	
šóton	to smash up	páš-ké	hummingbird	
n-šoc°-elús-em	to wink	l mlínšep	balsam tree Cm mrimtp 'spruce'	
Cm k°ráyq yellow	k°olíy	green, yellow	člípén	to pinch stg.
	k°olmékst	yellow moss		

LIST 4.

Sechelt i                      Squamish y (i)

pálem	pəym	to fall/id. overboard
məi	mey	to sink
tšləm	teyn	to clear land
tšmul	tšmuyn	to patch up
Cm eilkst	člāčis	five
salxácut	soyč	to drift downstream
načšlnaq	snčínaq	in-laws (of man, woman)/ /wife's brother's wife
čáilítan	sčáyiłn	any fish
leč	yəč	full
-lap	-yap	2nd person plural
k°alimut	k°ay	to hide oneself
k°álučmix°	k°áyucmix°n	to kill a person
sx°álus	sx°aháyus	dropoff
x°ák°il	x°ák°i	to get drunk
qšləm	qəym	to make camp
sqilt	qit	day/morning
sqila	sqi°	smoked fish/sliced salmon
q°élay	q°áycay	hemlock
q°alsát	q°i°sán	to boil stg.

q°álc°al	q°ay	tame
ǰliǰ	ǰeyǰ	to make war
ǰ°ulum	sǰ°uyum	grey hair
swáltən	switn	fishing net
yúlak°	yúya°k°	wave
°úluλ	°úyuλ	board a canoe

LIST 5.

Sechelt 1

Souamish 1

málalus	málalus	raaccoon
macálaqin	smacálaqn	brains
málsəm	mułsm	low blueberry
mak°áli	smak°a°ái	grave
táǰ°əc	stáǰ°c	devilfish
stáliq°	tálm	wild strawberry
səliq°-	səslq°	sad, lonely
səliwan	nsəlus	to spin wool
síla	si°l	grandparent/grandmother
čəláqəluλ	čl°aqλ	yesterday
sáelum	stlu°m	cockle
ləwax	ləwǰ	rib
sləway	sləway	inner cedarbark
lilíq °	lilíq	easy
kílalá	kílala	butterfly
k°áyəl	sk°ayl	today/sky
x°alíten	x°alítn	white person
qəlqəlmút	qlim	weak
qəlum	qlum	eye
sqálaǰ	sqalǰ	digging stick
sqaqłáλ	sqaqł	baby, toddler
qəmul	sqeml	paddle
qal(it)mit	q°álan	to believe

q̇ilawtx°	qi'áwtx°	smoking shed
q̇°el	q̇°el	cooked, done
q̇°éla	q̇°el̇	belly
q̇°elána	q̇°éla'n	ear
ṡq̇°elúma	ṡq̇°lam	berry
q̇°élus	ṡq̇°alm	barbecued salmon
q̇°iyilš	q̇°yilš	to dance
ṧelém	ṧel̇	to write
ṧ°íx°lam	ṧ°ílm	string/rope
hálayten	hálitn	iron/chisel
hílit	hílit	to roll stg. (over)
swáwlus	swíwlus	youth
yálup	yúla'	Indian rhubarb
'elás	'elás	sea cucumber
'alawí'	sx°elawú'	turnips
'ilálatx°	s'iltx°	roof
'ílinas	s'ílinas	chest

LIST 6.

Halkomelem 1 // Squamish y

(These cases are in addition to the ones quoted in On Divergence p. 7.  
Unless otherwise indicated, Halk. forms are Cowichan)

<u>Halkomelem</u>	<u>Squamish</u>	
č̇elx°č̇l̇stel	č̇i'áx°	quiver
ṧélč̇ep	ṧéyč̇ep	firedrill
ṧq̇el'°	nsqi'	underbrush
q̇ṧl̇sṫen	q̇i'ṧen	cance mat
ṧel̇ẋq̇ínem	ṧeyẋ, ṧi'ẋ	war whoop // war
ṧ°élc°ełp	ṧ°áyay	willow

LIST 7.

Halkomelem 1                      Squamish 1

ṧq̇ṗál̇θ̇eten (Ms.)	q̇ṗalstn	knee(cap)
ṧṗél'°x°em	ṧṗélx°m	lung
ṗel̇ey'°éws (Ms.)	ṗéli'	tree-bark
ṗq̇ṧl̇q̇en'	ṧ°uṧ°ṡéłqn	mountain goat
ṁéles (Ms.)	ṁélalus	raccoon

?

(Halkomelem)

(Squamish)

mólk°elʔ	smólk°ól	Indian plum
málʔsem	mułsm	swamp blueberry
šmek°éle	smek°eʔál	graveyard // grave
šéleməp	šélemáy	wild cherry
stiqol	stiol	mud
səšéləm	cšalm	sword fern
šemilʔ	šnil	thin
šecšle	ščel	kingfisher
šéleʔ	šáliʔ	heart
síʔle	siʔl	grandparent
sólʔselʔten	sešltn	spindle
x°šélnect	nčélnēč	chorus of song
šéle	šel	penis
ššýlēš	ššilš	stand
sšpélʔqen	sšpalqn	feathers
lélamʔ	lam	house
-alk°l	-alk°l	suff. "dancer"
sləʔx°íws	slálaw	body (doubtful corr.)
-eʔleq	-uʔlq	suff. "wave" (?)
sléwey	sléway	tree-bark
léweš	lewš	rib
sk°ek°áʔtelʔ	sk°ek°áʔtl	living apart
k°íntelʔ	k°intl	fight
k°elálap	k°lúlay	alder
k°élešt	k°élaš	shoot
sk°éyel	sk°ayl	day, sky
k°celšqel	(k°i) šlʔaqł	yesterday
k°šlʔe	k°el	stomach
k°šlewʔ	k°láv	skin, hide
x°ix°el (Chill.)	x°ix°í	underbrush // branches
x°elítəm (Chill.)	x°alítn	white person
sqéqelʔe	sqaql	child
šqeqáʔqel	sq°úq°í	pond
qéləm	qlum	eye
qélqəp	qáiqay	wild rose
sqéləš	sqałš	digging stick
sqeləwʔ	sqałw	beaver
sqémelʔ	sqemí	paddle
q°əm°cáls	q°mčuls	cranberry
šq°álewen	sq°alwen	heart
q°šləm	q°el	to cook

(Halkomelem)	(Squamish)	
sk°i:lmex°	sq°elmx°	blackberry
q°ey°iləs	q°iilš	to dance
xélew	xá°lu	spoon
xáy°lem°	x°ilm	rope
haléy°ten	hálitn	d-adze // chisel
he°wá°lem	hewúlm	to play
wel°	wel	tule // bulrush
swiw°ləs	swiwúlus	adolescent boy
syil°ánem	silánm	year
yéx°əls	yeX°əla°	eagle
°el°élyə (Ms.)	°l°éli	to dream                      dream
s°élyə	s°éli	"lay" spirit power //
s°iltex°	s°iltx°	plank // roof, house
s°íles (Ms.)	s°ílinas	chest

F o o t n o t e s

1) This paper to a certain extent takes issue with Kinkade and Thompson 1972, which appeared in a series the preliminary nature of which is emphasized on its title-page. To this may be added that the abovementioned article provided the stimulus for the ideas developed here. See further the introduction to the Dutch Contributions as a whole. Abbreviations:

CdA. Coeur d'Alene	IS Interior Salish	Sech. Sechelt
Chill. Chilliwack	Kal. Kalispel	Sh. Shuswap
Colm. Columbian	Lill. Lillooet	Sq. Squamish
Cw. Cowichan	Ms. Musqueam	Th. Thompson
Cowl. Cowlitz	PS Proto-Salish	
Halk. Halkomelem	Fug. S. Puget Sound	

- 2) For other possible examples of this sporadic correspondence in IS see Kinkade and Sloat 1972 p. 41.
- 3) For special ablaut-forms in verbs meaning "dismantle, destroy" cf. the o-phase in Slavic \*por- rip up, \*pol- weed, \*bor- subdue, fight, \*kol- stab versus the e-phase in \*per- support, \*ter- rub, \*mer- die, etc.
- 4) An additional example, that escaped our attention, is CdA. q°al be black from burning. These cases probably belong in one category with the Kal. words with a after a uvular (SED p. 53); that this is a secondary development is clear from examples like Kal. qám to swallow, where the other IS languages have zero degree and not a single one gives evidence for a darkened vowel: CdA. qám, Sh. qm-em (not -am!), Th. qm-em, Lill. qám-en.

R e f e r e n c e s

- Elmendorf, W. and Suttles, W., "Pattern and Change in Halkomelem Salish Dialects", Anthropological Linguistics, Oct. 1960:1-32.
- Kinkade, M. Dale and Sloat, Clarence, "Proto-Eastern Interior Salish Vowels", IJAL 38 (1972):26-48.
- Kinkade, M. Dale and Thompson, Laurence C., "Proto-Salish \*r", Working Papers in Linguistics (Dept. of Linguistics, U. of Hawaii), Vol. 4:3 (1972): 39-55. -- (Abbreviated PSR)
- Kuipers, A. H., On Divergence, Interaction and Merging of Salish Language-Communities (unpublished contribution to the 2nd Int. Conf. on Salish Languages, Seattle 1967).
- , The Squamish Language I - II, The Hague 1967-69.
- , "Towards a Salish Etymological Dictionary", Lingua 26 (1970): 46-72. -- (Abbreviated SED)
- , The Shuswap Language, The Hague 1973 (in press).
- Reichard, Gladys A., "Stem-List of the Coeur d'Alene Language", IJAL 10 (1939): 92-108.
- Vogt, H., The Kalispel Language, Oslo 1940.
- , Salishan Studies. Comparative Notes on Kalispel, Spokane, Colville and Coeur d'Alene, Oslo 1940.
- Snyder, Warren A., Southern Puget Sound Salish, 2 vols., Sacramento 1968.