<u>Restrictive Locative Fields</u> in Ahousat Nootka¹ Suzanne M. Rose University of Victoria

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0. Introduction

1. The Problem

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3. Secondary Associations

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<u>0.</u> This paper examines Ahousat Nootka restrictive locative lexical suffixes, and describes one aspect of their semantic structure as lexical entries. Nootka is polysynthetic, with about 350 lexical or non-inflectional suffixes (LS's), which are classified within the restrictive-governing and semantic theme systems. Each morpheme or stem² belongs to one of seven theme classes: locative, substantive etc. (Swadesh 1933:40). A suffix may be classified as *restrictive* if it does not control the semantic theme assigned to a stem or word, or *governing* if it does (Swadesh 1933:111,147). Restrictive locative lexical suffixes (RLLS's) account for about one third of all LS's.³

<u>1.</u> Native speakers' glosses for RLLS's are generally clearcut locations such as 'at the armpit' or 'on the roof', whereas glosses for multi-morphemic words suggest that RLLS glosses must be more diffuse, e.g. hit-piq-ut 'at the forehead' /hit-/ durative locative, /-piq(a)/ 'at the hill-top', /-(q)ut/ 'at the face'. This paper discusses whether all RLLS's have the same conceptual area or lexical field (Lyons 1977:253), namely the spatiallyorganized environment, as their range of reference, or whether RLLS's can have different *ranges* of reference or refer to different *subfields* of the locative lexical field.⁴

The morphological component is assumed to consist of word-

formation rules, including some global generative rules with access to the whole grammar (Carroll 1975:47), and a lexicon, including morphemes and those stems with a non-predictable derived meaning. Each lexical entry is a lexeme-entering rule (Gruber 1976:275), organized in part hierarchically, interacting with nonlinguistic cognitive systems (Tyler 1978:327) and resulting in a phonological output. Each lexeme's sphere of reference has a part which is *salient*, i.e. psycho-culturally primary or foregrounded (Lyons 1977:247). Presumably, speakers would recall the salient sphere of reference for each lexeme as the initial gloss or association given for that lexeme.

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To investigate the semantic structure of RLLS's, seventy-six Ahousat RLLS's were affixed to hit- 'there'⁵, randomly ordered, and presented to an Ahousat speaker (in three sessions) with the following instructions:

"... As I say a word, you will repeat it. Then, if another Ahousat word comes to mind, say it... draw the first image or idea which comes to mind concerning the first word I gave you..."

He would count to twenty in Ahousat, and then respond to the word presented.

2. The first-given or *primary* associations were analyzed for the first 28 location words presented. Four words had no primary association. The 24 remaining associations were of the following types:

1. extension: different locative root, such as hin- 'near, coming to' (7)⁶, ha•ł- 'way over there' (2,22), [?]ust- 'down there' (23, 24), [?]am- 'right there' (8, 11, 19), with the *same* lexical suffix, or with a different RLLS designating the same or adjacent location (1,12,13,14,21,26,27), or the *same* locative *root* plus another RLLS (3);

action: an action root plus the same RLLS (4,6,10,17,20,28);
 nominal: a nominal referring to the location site (15,25).
 Examples of these types of association are:

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(22)	hiy-'a''a	->	ha•y- 'a•?a	at the rocks	->	over on the rocks
(13)	hil-a•pal	->	°ap-pi∙			right at top of
(28)	hi•1-aqsi	->	ti•qʷ-aqsi	body) at vessal's	->	back sitting at
(25)	hi1-a•nu1	->	suč'is	at long obj.	->	vessal's edge tree

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There are two kinds of extension: proximal extensions (hin-, [?]am-) commonly occur for body-site locations, and <u>distal</u> extensions (ha*¹-, [?]ust-) for nature locations.⁷ This distinction is a function of use. One does not normally refer to a body-site location as ha*¹ 'over there', or [?]ust- 'down there', but rather, one specifies a site close by (hin-, [?]am-) where there is a discrete mark, object (e.g. fly) or sensation (e.g. itchiness). Conversely, one normally refers to places in nature as distal (and less specific) with respect to the speaker, narrator or action.

Primary associations always refer to the same or a similar location, whether

on the body: lip → upper chin, throat → right at neck, back
 → top of back, body side → hip, ear lobe → cheek;
 in nature: lower beach → upper beach, in air → over there in air, on ground → underground, at beach → down at beach.
 Associations for body, nature and object locations remain body, nature and object locations respectively.⁸

<u>3.0</u> Secondary associations are secondary *meanings* of a locative word, obtained at the time of initial presentation of the word, subsequent to the primary association, and confirmed one to two weeks later during a second presentation of all words with secondary associations. RLLS's were classified as salient with respect to the body *B*, nature *N*, or man-made objects M.⁹ Suffixes denoting a location site adjacent to but not touching the subfield referent (the body for *B*-salient RLLS's, an object for *M*-salient RLLS's) are still assigned to that subfield, e.g. -kumq i *B* 'behind (a person)'.

The following chart lists each RLLS with its primary gloss, salient subfield, and secondary subfields, identified by the RLLS's

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secondary associations. Associations for the original locative word only were considered *independant* secondary associations, e.g. (26) hit-a[•]?aq *BM* 'at (body) side' -> 'at side of table' Secondary subfield associations for associations consisting of the original locative word plus an *additional* RLLS are termed *dependant* secondary associations and are parenthesized, as in (26) hit-a[•]?aqačišt B(N) 'at (body) side' -> 'at sea side' @side @sea

The sequence of a RLLS's subfields represents the temporal order of volunteered associations. For $-a^{,2}aq$, the order is BM(N).

	·····		C	hart 1: Sub	fields ¹⁰
No. RLLS	Gloss	Subfields	No. RLLS		Subfields
1-piq(a)	@(hill)top	N(M)(B)	21-a•hur	@ front	BB
2-api L	up above	N(M)	22- ' a•?a	@ rock(s)	N
3-asu L	under water	r N(N)	23 - 'as	@ ground	N
4-aqsi	@edge of		24- ° is	@ beach	N
•	opening	M B(N)	25-a•nur	@ long obj-	0
5-pič	@projection	N M(B)		ect(tree)	N ² M B(B)
6-'i•s	outside	N	26-a•?aq	@ side	B M(N)
7-aksuł	@lips	B N(N)	27-akud R	@ earlobe	BB
8-(w)in1	@neck	В	28-a•ci	@ 1ap	В
9-?a•cuł	@ 90°pro-	- 9	29-(c)sa ma	uq≯i@wall	М
	jection	B ² MN(N)	30-iyuq≯	in cavity	BN
10-a•či•št	@ sea	N	31-ca•s	@ side	В
11-qi•	@ top	BMN	32-cimyurł	@ hairline	В
12-iyur	@ throat	В	33-(c) sitk	@ top of	
13-a•pał	@ back	В		ceiling	MBN
14-ni•s	@ beach	N	34-sinyuk	-	_
15-sinqi	<pre>@ belly</pre>	B(N)		neck	B - 2 2
16-yimł R	@ shoulder	В	35-'ak⊁i	@ bottom	Β ² Μ ² N(N)
17-(w)i•c	@ rim of vessal	B ² M N	36- h aq) i	@ male genitals	В
18-sit L	on l i quid		37-qu•1	<pre>@ projec- tion</pre>	ВВ
	in vessal	М	38-(c) stu•	@ protec-	
19-(c)spuqki	in crotch (space)	BN	39-sti•ł	ted spot @ throat	N(M)(N) B B
20- aqx	in vessal	M B(B)(N)	40-ač R	offshore	N

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No. RLLS	Gloss	Subfields	No. RLLS Gloss Subfields
41-(č)it	@ body	В	59-ḥsa between M (M)
42- ihta	@ point	B M ² N(N)	60-'a•ostaL among MBN
43-'imt R	behind ear	В	61-ḥsna•k between M (B)
44- i•Xa	below	B MN(B)(M)	62-yin @ bow M
45-u•č	@ horizon (land)	N	63-win @ middle B (M) (N) 64-'apuła underneath B M N
46-ci•ł	@ side	M B	65 -kunq λ i behind B
47-caqił L	@ inside frontwall	Μ	66- \dot{pi} · @ upper back B (M) (N)
48-ca•tu	offshore	N	67-'ahs in vessal M B
49-cit	offshore	N	68-(q)u ¹ @ face B
50-cuq™a	in mouth	В	69-tqi• underneath M (B)
51- (č) ink R	@ joint	BB	70-a•s on surface <i>M B N</i>
52-hsnul	between	M B (M)	71-?a•1 on fabric surface M
53-'as RL	<pre>@ side (hip,ear)</pre>	в В	72-a•sca on roof M
54- 'a •či	@ crotch	В	73-(c)swi• through $N M B (M)$
55-h ta• k	offshore	N	74-(w)ink @ conver- gence B (M)
56-cu•t	@ side	B MN(B)	75-(q)hta @ foot B
57-cpa•	nearside	B M (N)	76-(w)akw- @ head of
58-cu•	invessal	МВ№	init bed M

<u>3.1</u> This analysis assumes that secondary associations (S.A.'s) are not a function of presentation sequence, and that the 76 RLLS's studied are representative of all RLLS's in Nootka. Chart 1 shows that RLLS's do not share the same range or sphere of reference: some may refer to body, nature and object locations, such as -cu't *BMN*, in hitcu't 'at the side of the body or a manmade object, in early afternoon (sun past zenith)'; some refer to a location restricted to one subfield, such as -ca's *B*, in hitca's 'at the side of the subfields: *B* includes body-part locations on animals (principally humans), *N* includes locations on plants and non-living parts of nature, and *M* includes locations on non-living objects modified or created by humans, e.g. a vessal or pole.

Secondary associations for each salient subfield are given below. X and Y represent independant secondary associations; (*Dep*) represents one or more dependant S.A.'s.

					Ch	art 2	: Second	ary Associa	itions
Salient		Secondary Associations							
Subfield	ø	B	М	N	(Dep)	XҮ	X(Dep)	XY(Dep)	TOTAL
						BMN	BM()	BMN()	
B	14	(<u>7</u>)	_	3	_ 5 _	_4	_ 2 _	_ 4 _	_39
						MBN	MB()		
М	8	2			2	4	3		19
						NMB		NMB()	
N	11				4	1	1	1	18

<u>3.2</u> There is clearly no homogeneity in the subfield associations of RLLS's. An RLLS may have one or two independant associations and/or one (or more) dependant associations. The sequencing of associations is due in part to a location site hierarchy: 1. B 2. M 3. N. First or salient is principally B; a linking association (mediating between a salient and some other secondary association) is principally M; the last secondary association is principally N.

The dominance of B is evidenced by the following. It is the subfield occurring most commonly as the only subfield of a RLLS, as the salient subfield of an RLLS (39:19:18), as any subfield of an RLLS whether salient or secondary (54:40:40), as a salient subfield with secondary associations (18:11:7), and as the salient subfield with the greatest range of secondary associations. It is the subfield occurring least commonly as a secondary association (14:18:23). Finally, the body subfield is the only salient subfield for which additional location sites in the *same* subfield were given as the only independent S.A.

The salient gloss and the association(s) for each of the RLLS's with this pattern are: (21) 'chest' → 'in front of body', (27) 'earlobe' → 'behind jaw line', (37) 'face' → 'penis' (bulky projection on vertical plane), (39) 'throat' → 'collarbone', (51) 'ankle' -- 'any body joint', (53) 'ear' → 'body side' (hip, shoulder, a body side projection). In fact, most instances of

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multiple independant associations within one subfield occur for the body subfield. In addition to the above, the following cases occur: (9) 'at sole/palm' -> 'ankle, penis' (any jointed place at right angle to the vertical plane of body), (17) 'rim of head' \rightarrow 'rim of any bodily circular structure (eye, ear, nostril), (35) 'buttocks' \rightarrow 'elbows'. All of these *B B* sequences of body locations seem to follow one pattern: if a location salient for body parts has location sites scattered over the body, then the site most (vertically) peripheral will be salient. Two cases require comment: (21) 'chest' -> 'in front of chest (or person)' is the only case of non-vertical peripherality. Clearly a point near but not touching is more peripheral than one touching a location site. The salience in (35) 'buttocks' \rightarrow 'elbows' is determined in relation to the ground-sitting posture of humans: Seated thus, the buttocks are more peripheral, as the elbows do not reach the ground.

M, on the other hand, must serve as subfield link in RLLS's with two or more S.A.'s unless *M* is already salient. Also, *M* is most common as the S.A. when there is only a dependant S.A. But *M* never serves as final independant S.A. (unless a dependant S.A. follows). In cases of multiple *M* associations where *M* is salient, the generic site name is given first, and specific instances are then given in no apparent organized sequence: (59) 'between layers' \rightarrow 'blanket layers, book pages, clothing layers'; (71) 'on fabric' \rightarrow 'clothes, mats'. Where *M* is not salient, a non-organized sequence of man-made locations may occur: (35) 'bottom' *B* \rightarrow 'cup bottom, blunt pencil end'; (42) 'point' *B* \rightarrow 'wharf, pencil point'.

N locations are most restricted in association. When salient, they constitute the subfield with the highest proportion of RLLS's with no S.A.'s. An N-salient RLLS with S.A. must have M as its first S.A., and must not have just one independant association: M must serve as the link, either in dependant associations, or in a series of independant associations. There is one case of a

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multiple independant association for a nature location: (25) 'at tree' \rightarrow 'along river' \rightarrow ... There is less independant multiple association within the *M* and *N* subfields, and evidently no salience organization within either of these subfields.

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3.3 Of the set of 36 RLLS's with secondary associations, 24 have at least one dependant association. Examples of these are given below. RLLS numbers from Chart 1 identify each suffix.

				Char	t 3: Depe	endant Assoc	iations
No.	Suffix (First)	Salient Subfield	No.	Suffix (Added)	Salient Subfield		Compound Subfield
2	-api L	N	70	-a•s	М	on table	М
4	-aqsi	М	24	-°is	N	@ riverbank	N
5	-pič	N	42	-'iḥta	В	on nose	В
26	-a•?aq	В	10	-a•či•št	N	@ sea side	N
44	-'i•*a	М	7	-aksuł	В	@ lower lip	В
74	-(w)ink	В		-"it ¹¹	M/N	in corner (house)	М
35	-'ak⊁i	В		-°ił	M/N	in back of cave, inlet	N

In all 24 cases, the subfield for the suffix compound (both are RLLS's) was the subfield of the final RLLS. Hence the dependant association subfields of RLLS's are always the salient subfields of the suffix which is added, and therefore may not necessarily represent a subfield extension of the original RLLS.

<u>3.4</u> The following rules seem to account for the RLLS patterns of secondary association:

1. Any of three subfields, B, M, or N may be salient.

2. B dominates N: in a choice of B or N, B is chosen.

 M dominates as link: if the salient subfield is not M, then the first of two associations will be M; M may not be the final independant association, unless a dependant association follows.
 Dependant associations must follow all independant associations.

5. A third association is the remaining subfield, or dependant association.

These rules block the following sequences:

Rule 2 *NB, *MNB

Rule 3 *NM, *BM, *NBM, *BNM

Rule 4 *(Dep)X, *(Dep)XY, *X(Dep)Y, *(Dep)XYZ, *X(Dep)YZ, *XY(Dep)Z

Rule 5 *BMM, *BMB, *BNN, *BNB, *MBB, *MBM, *MNN, *MNM, *NBB, *NBN, *NBN, *NMM, *NMN.

They predict the following sequences: B, M, N, BN, MB, BMN, MBN, NMB, B(Dep), M(Dep), N(Dep), BM(Dep), NM(Dep), MB(Dep), BMN(Dep), MBN(Dep), NMB(Dep).

Whereas independant S.A.'s were all extended to closure (the subject confirmed that the RLLS's could be employed in no further subfields), dependant S.A.'s were not. It is not clear whether RLLS's have idiosyncratic dependant S.A. patterns, or whether all RLLS's with dependant S.A.'s have them for all three subfields.¹² This problem awaits further research.

<u>4.1</u> This section examines possible predictions of subfield dominance. Section 3.4 demonstrated that given a pair of independant subfields, the salient subfield can be predicted, *B* for $\{B,N\}$ and *M* for $\{B,M\}$. Given two independant subfield S.A.'s plus a dependant S.A., the salient subfield can be predicted for $\{M,N,(Dep)\}$ (it will be *N*), but not for $\{B,M(Dep)\}$. The *BM(Dep)* suffixes are (26) -a•?aq 'at side', (57) -cpa• 'on, near side'; the *MB(Dep)* suffixes are (4) -aqsi 'at edge (vessal opening), (20) - 'aq λ 'in vessal', (52) -hsnut 'between layers (man-made)'.

Given all three subfields as independant associations, any of the three may serve as salient. *BMN* or *BMN(Dep)* suffixes are (9) -?a•cuł 'at right-angled projection', (11) -qi• 'at top', (17) -(w)i•c 'at rim of round thing', (35) - 'akki 'at bottom', (42) -'ihta 'at point', (44) -'i•k'a 'below', (56) -cu•t 'at the side', (64) -'aputa 'underneath'. *MBN* suffixes are (33) -(C)sitk 'at inside top of vessal', (58) -cu• 'in vessal', (60) -'a•qsta 'within, amongst', (70) -a.s 'on surface. NMB or NMB(Dep) suffixes are (25) -a.nut 'at long object', (73) -(c)swi 'through, surrounding'. Although no absolute predictive rule can account for subfield saliency among three independant S.A.'s, one can observe that the cardinal locations for a three-dimensional figure (top, bottom, front, back, side) tend to be B-salient, and that locations within an enclosure tend to be M-salient.

4.2 A second question concerns whether an RLLS will have S.A.'s, and whether they will be independant or dependant. Such a prediction *is* possible for *N*-salient suffixes. RLLS's denoting general land or sea places, not geometrically definable¹³ -on or under water, offshore, at beach, rocks or ground -- have no S.A., whereas those denoting a delimited site -- hilltop, tree, cliff, protected bay, between two rocks -- which is part of a general *N*-salient location and geometrically definable, *do* have S.A.'s, those denoting the most delimited -- tree, rock -having *independant* S.A.'s.

Prediction of association potential for M-salient suffixes is not as straight-forward. M-salient suffixes refer largely to location sites relating to an *enclosure*. If a suffix's enclosure site is not sufficiently defined by geometric configuration -at surface of liquid in vessal, at wall, in bow, on roof, at foot of bed, at inside of wall -- but must be further specified for vessal type, e.g. pot/bowl/cup, house, canoe etc., then such a suffix has no associations. If, however, a suffix's location site is sufficiently defined by geometric configuration, or is at least appropriate for more than one type of man-made object -- at edge of opening on vessal, in open vessal, in closed vessal, inside top of convex vessal -- then that suffix will have secondary associations (independant as well as dependant).

Prediction of association potential for *B*-salient suffixes parallels that of *M*-salient suffixes. An RLLS denoting one

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specific body part location -- ear, shoulder -- has no S.A.'s, but one denoting a general spatial configuration found at different body part location -- at right-angled projection, rim of round thing, bottom, point -- or found at a point adjacent to but not touching the body -- at crotch (between legs), below (chin), near the side, underneath (crotch, between legs) -- has independant secondary associations.

In summary:

1. An RLLS location adjacent to but *not touching* the subfield referent (e.g. body, object) will have independant S.A.'s, or occasionally only dependant S.A.'s. 14

 An RLLS location not on or near a *discrete* object (body, manmade implement, tree, rock) has no independant S.A.'s; a semidiscrete location (hilltop, bay) has only dependant associations.
 An RLLS location which is composed of *sub-locations* denoted by RLLS's (e.g. -(č)it 'at the body') has no S.A.'s.¹⁵

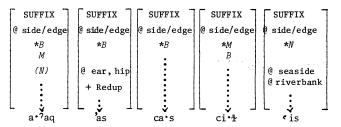
4. An RLLS location which is geometrically definable tends to have S.A.'s, whereas one which is not geometrically definable tends to not have S.A.'s. 16

<u>4.3</u> A third question concerns whether subfield salience correlates with the particular geometric configuration defining an RLLS's location site. A given configuration may be denoted by several RLLS's, with different salient subfield affiliations.

		Chart 4: Configuration Saliency 17				
Configuratio	on B-Salient	M-Salient	N-Salient			
on top	-qi• BMN	-a•s MBN	-piq(a) N(M)(B)			
between	-(c)spuq⊁i <i>BN</i>	-hsnut M(B)(N)	-(c)swi• <i>NMB</i>			
enclosure	-iyuq* BN	- 'aqi MB(B)(N)	[-(c)stu N(M)(N)]			
	-cuq™a B	-cu• MBN				
		-'ahs <i>MB</i>				
extension	-?a·cut BMN(N)	-	-pič NM(B)			
	-qu•1 BB					
side/edge	-a•?aq BM(N)	-ci•ł MB	[-u•č N]			
	-ca·s B		[-" is N]			

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5.1 To account for a RLLS's association potential, its lexical entry would have to include a core gloss, usually an abstract geometric configuration, plus salient subfield, plus, optionally, additional specification (e.g. 'at the bed') and/or association and collocation propensities. One spatial configuration can be represented by different lexemes with different subfield patterns:



The starred subfield is salient, and dependant subfields are in parentheses. A given spatial configuration or a given salient subfield cannot govern an RLLS's subfield pattern. Hence it must be entered in the lexicon.

These entries predict that $-a^{\cdot}?aq$ and $-ci^{\cdot}i$ can both refer to a *M* or *B* side/edge when contextually-defined, but refer to *B* and *M* respectively when not contextually-defined, e.g. when affixed to hii- 'there'.

5.2 The generation and interpretation of RLLS compounds is in part a function of RLLS subfield patterns. For example, consider the generation of 'at the seaside'. As a general location, the word will have hit- 'there' as root and N as dominant subfield. The location-denoting RLLS will be last (and dominant), and preceding suffixes will denote location only with respect to a spatiogeometric configuration. A preceding RLLS will be *dependant*, and therefore must have a dependant subfield association equal to the salient subfield of the terminal RLLS. Independant S.A.'s of nonterminal RLLS's are *ignored*. However, additional specifications are not, and in fact, they block an RLLS from being non-terminal.

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These rules account for the grammaticality of /hit-a.?aq-a.či.št/ 'there-at side BM(N)-at sea N', and the ungrammaticality of */hit-a.či.št-a.?aq/ 'there-at sea N-at side BM(N)', */hit-ca.s-a.či.št/ 'there-at side B-at sea N', and */hit-cis-a.či.št/ 'there-at seaside N-at sea N'.¹⁸

Suffixes with no dependant S.A.'s are never non-terminal in a sequence of RLLS's. This is confirmed for N-salient suffixes, which are largely non-associational and must dominate the subfield affiliation of an RLLS compound¹⁹, e.g. -tis N 'at the seaside, beach'. It is less confirmed for M- and B-salient RLLS's.

5.3 One feature of RLLS's which influences the kinds of RLLS compounds which occur is the spatio-geometric configuration. Certain spatial configurations are strongly associated with a certain subfield saliency: locations at a convergence (angle, edge, side, boundary of enclosure), a projection, or one surface of a three-dimensional cubic-type solid (front, back, top, bottom, side) are denoted by B-salient RLLS's; locations in or at an enclosure (either a vessal, or a group of discrete objects, as in 'within, between, among') tend to be denoted by M-salient RLLS's²⁰. The absence of a defining spatial configuration, or its supplementation by specific denotation, as in 'at the foot', is associated especially with N-salient RLLS's (and also with B-salient ones to a lesser extent). One can predict that B-salient RLLS's denoting locations at convergences, projections or on 'cubic' surfaces, and M-salient RLLS's denoting locations at or in enclosures will tend to have dependant S.A.'s, allowing these spatiogeometric configurations to be specified for any subfield location in an RLLS compound. On the other hand, N-salient RLLS's will rarely have dependant S.A.'s.

Although all three subfields are structured as 'part-of' rather than 'kind-of' taxonomies (e.g. a botanical one)²¹ and are not discretely compartmentalized (no clear boundaries between shoulder and arm, lip and inside of vessal, etc.), the nature subfield is especially resistant to compartmentalization. Boundaries between water and land, tree and land, hill and plain, etc., are vague and *subject to change*. This in part accounts for the N-salient RLLS's' lack of secondary associations.

5.4 One might ask: are the subfield associations of RLLS's metaphorical extensions? A metaphor is understood as a predicate of equivalence or comparison (unassociated with a particular part of speech; c.f. Ricoeur, 1975:62) in which lexemes with conflicting literal (central) and marginal ranges of reference are juxtaposed. The metaphor is defined by this conflict and by the linguistic context (Mooij, 1976:26). Semantic interpretation requires the cancellation of certain semantic features of the metaphor's lexemes (Cohen, 1979:69-73). Semantic modification is less of a one-way or monistic process (Beardsley, 1972:181) and is more of a two-way or interactionist process (Tyler, 1978:331), but is both. A metaphor is not deviant or parasitic with respect to language (Ortony, 1979:2)²², but is an essential creative and novel linguistic process and object. Once used, it is lexicalized as a dead metaphor, usually as a secondary entry for a lexical item.

The presence of different morphemes denoting the same spatial configuration but having different salient subfields, with or without S.A.'s, suggests that Nootkan RLLS extensions were historically metaphorical, but are now lexicalized. For example, the suffix $-a^{*2}aq BM(N)$ 'at the side' would have originally been restricted to body locations 'at the side of the body', and would have been extended metaphorically to include man-made object locations, perhaps only in the context of a specified man-made location at first: hika'?aq č'apic 'at the side of a cance'. The extension can be formalized as

[-ci•ł M, -a•?aq B] mĒTĀPHOR→ -a•?aq M side side

and would eventually be grammatical without reference to a specified object: hira 'aq 'at side of object, e.g. tabletop'. At some point, the gloss of $-a^{*}aq$ was also extended to denote sides of nature locations, but only when the immediate (suffix) context was

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However, it must be emphasized that the Nootka location extension system is not simply a taxonomy of discrete subsets, but is a generative system in which an inescapable vagueness of domain boundaries (e.g. a doorway as N or M, a mouth used as a vessal as B or M, a pole as M versus a tree as N, a non-human body part as B or N), part of the 'limited sloppiness' inherant in language (Weinreich, 1966:190), makes possible the linguistic interaction, overlap and extension of these location categories which are defined perhaps only within the linguistic system.

6.2 Metaphor (living or dead) is a process vital for establishing links between different categories of experience and knowledge. Although such links often occur within the nonlinguistic cognitive component, some links (such as the Nootka location extensions) occur within the linguistic component of one's knowledge of the world, i.e. the lexicon. These extensions result in a certain ambiguity of meaning for RLLS's, an ambiguity useful in the establishing of new linguistic relations. This mapping of one domain onto another establishes metaphorical relations between the most immediate human experience of location (the body) and other location domains. Levi-Strauss (1966:93) used the term bricolage to denote the establishing of homologies between domains of the world, especially between a domain removed from human experience, such as nature (including geographical, botanical or totemic members), and one closer to human experience, such as a kinship or class system, body parts or technology, in order to account for and to reinforce the natural and social orders perceived. Bricolage can be covert or overt. Even covert linguistic categories can be of great taxonomic importance (Berlin, 1968). The location system in Nootka appears to be a covert system of bricolage, of homologies based on logical similarities of geometric configuration,²⁷ with body as the archtypical location, and consisting of an interacting taxonomy of place, with a linguistic-cultural division of locations into those of the body, man-made objects and nature, the body linked to nature through

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a nature location: hif-a•?aq-ačišt 'at the seaside'. N is still a dependant S.A. for -a•?aq.

In both independant and dependant S.A. types there is a covert comparison predicate (the side of the body is like the side of an object or the seaside), with a juxtaposition of morphemes with different salient subfields (B-M in 'side-of canoe' and B-Nin 'side-of sea'). a $loss^{23}$ of the subfield characteristic of the subordinate location ('side $(B \rightarrow \emptyset)$ of canoe M', 'side $(B \rightarrow \emptyset)$ of sea N') which results in a semantic modification, not of the dominant location ('canoe M', 'sea N'), but of the subordinate (spatio-geometric) location, resulting in the entering of a new domain, or at least a new part of the original domain. 24 Mooij (1976:169) has characterized metaphors as the suppression and emphasis of features of a principle subject under the influence of a subsidiary subject. By this definition, RLLS S.A.'s are metaphors, albeit dead ones, which extend the range of location morphemes in a fairly principled way. The process of metaphor could make future new extensions as well. Metaphor, then, is crucial in Nootka word-formation, in the orga nization of association choices for multiply-suffixed location words, and is hence a semantic process of much greater use in language than only in certain deviant collocations of words.

<u>6.1</u> The organization of RLLS's supports *field theory* (c.f. Miller, 1968:64-87), a model in which a language is seen as a structuring matrix of concepts or lexemes, each defined by other concepts or lexemes found in the language's lexicon,²⁵ and by the contexts in which it is used. Similarly, the range of reference of Nootka RLLS's is partly a function of the range of reference of other RLLS locations, and secondly, the ranges of the subfields themselves -- -(č)it 'at the body', -'as 'outside' (including -'as 'at ground (land)' and -fis 'at beach, seaward') and -fit 'at an enclosure' (most enclosures being M-salient: cances, boxes, houses, cups etc.) -- are defined by the ranges of extension and the *limits* of extension of all the RLLS's.²⁶

the medium of man-made objects. This taxonomy is important in the lexicon: RLLS's which are *B*-salient or *M*-salient are much more likely to have associations than *N*-salient ones, suggesting a binary classification of immediate human-oriented locations (B,M) versus more alien nature-oriented ones (N). This would help account for the association of *B* and of *M* to *M* and *B* respectively, before gaining a *N* association, and for the common association of both *M* and *B* with an *N*-salient location.

Such a homology of place is not restricted to Nootka. English is rich in body \rightarrow nature extensions (foot of the mountain, head of inlet); Tzeltal and Salish appear to be rich in body \rightarrow man-made extensions²⁸; Alpine German (Miller, 1968:81) is rich in both body \rightarrow nature and man-made \rightarrow nature location extensions. Such differences suggest that particular location extensions are learned as part of a cultural repository of possible homologies, metaphors and associations (Morgan, 1979:143), although the process or strategy of metaphor may be universal. A location system such as that in Nootka suggests that when language creates a subcategorization of reality, it does not necessarily fragment reality as Laszlo (1976:257) suggests, but can build or confirm relations by the *integration* of the categories defined within a network of association and homology. Similar integration is expected within other Nootka domains.²⁹

NOTES

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1. This research was funded by the Melville and Elizabeth Jacobs Research Fund, and benefited from advice given by George Louie (consultant), Thom Hess and Barry Carlson. Ahousat Nootka, spoken at Flores Island, is a central dialect of Nootka, one of the Southern Wakashan languages. The phoneme inventory is /a a \cdot c c c c h h i i \cdot k k k k k k k k k k m h n n p q q w s s t t u u \cdot w w x x w x y y ? \cdot Nootka words are given in surface phonemic transcription; individual morphemes are in

surface phonemic transcription; individual morphemes are in underlying phonemic transcription. Parenthesized consonants occur only following vowels; parenthesized vowels occur only wordfinally.

2. A stem is a root plus non-inflectional suffixes forming a unit to which inflectional suffixes are added.

3. More if one considers that almost all suffix compounds with a bound element are RLLS's.

4. In the *colour* lexical field, *red* is a subfield and is itself composed of terms such as *vermilion*, *magenta* etc., in English.

5. Out of 80 originally chosen, four were found to be suffix compounds, one was an action suffix, one was volunteered by the consultant. All have etymons in P.Alberni and Kyuquot Nootka. A suffix beginning with ' causes the previous underlying fricative to surface as a glottalized resonant (e.g. $/\frac{1}{2}/ \rightarrow y$); a suffix beginning with ' causes the previous underlying fricative to surface as a resonant (e.g. $/\frac{1}{2}/ \rightarrow y$).

7. Proximal cases are (8,11,19,12,13,21,26,27); distal cases are (2,22,23,24).

8. This is supported by the drawings, which were applicable both to an RLLS's gloss and to its primary association.

9. This system is confirmed by association constraints and patterns discussed below in section 3.2 and following.

10. Suffixes marked as L or R cause the root vowel to lengthen or the root to reduplicate respectively. A subfield followed by ² indicates a sequence of that subfield. @ signifies 'at'.

11. $/-{}^{c}it/$ is a locative meaning 'at an enclosure'. It is the only RLLS found with a double saliency: *M* and *N* (although *M* is probably dominant; c.f. section 6.1).

12. The dependant S.A. patterns in this study suggest that an RLLS with no independant S.A.'s can have any subfield as a single dependant S.A. or two dependant S.A.'s, subject to the association rules -- hence, *N(B), *M(N) by rule 2; *B(B)(M), *B(N)(B), *N(B)(M),

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*N(N)(M) by rule 3. An RLLS with one independant S.A. tends to have the remaining subfield as dependant S.A. (BM(N), MB(N), NM(B)-- by rule 5?) or the salient subfield (MB(M)). An RLLS with two independant S.A.'s tends to have the final independant subfield as the dependant subfield, suggesting that the dependant subfield given was simply triggered by the last independant subfield and did not represent the full range of potential dependant S.A.'s.

13. I.e. easily described in terms of a geometric configuration such as an enclosure, a plane of a three-dimensional object, a circle, projection, angle, or a group of objects. One exception is api L 'up in air' which, contrary to prediction, has a S.A.

14. The cases with dependant S.A.'s are (2,13,38,74); the cases with no S.A.'s are (2.,65).

15. Cases are (6,10,23,41,68).

16. Some geometrically definable RLLS's have no S.A.'s, e.g. -(q)hta *B* 'at the foot' (parallel to -?aduł 'at right-angled projection'). Most of these are RLLS's denoting an *M*-salient location limited to one surface-type (e.g. fabric) or vessal-type (e.g. canoe, house etc.) as in cases (28,37,47,62,71,72).

17. Suffixes in square brackets have less support for being placed in the chart.

18. The ungrammaticality of the last word, with - is as a dependant suffix, is good evidence that dependant associations must be entered in the lexicon. — is has no dependant associations and must occur as the final RLLS in a sequence of RLLS's.

19. Cases are (6,10,14,22,23,24,40,45,48,49,55).

20. There are non-associational B-salient RLLS's denoting 'in an enclosure': -Cuq*a 'in the mouth', -iyuq% 'in throat, up inlet'.

21. It is not clear whether N- and M-salient subfields are transitive or not (c.f. McClure, 1978).

22. Nor does it necessarily morror a lexeme's semantic interpretation (c.f. Ricoeur, 1975:143).

23. The original metaphorical extension of a lexeme would be addition (of a subfield S.A.).

24. In cases where the RLLS has no S.A.'s other than an independant S.A. of the same subfield, e.g. \rightarrow as R 'at side of body (ear) \rightarrow 'at hip, shoulder'. Such association within the same domain occurs in Tzeltal, e.g. lanus' - 'mouth' (Stross, 1975:305).

25. This is, however, not a model of cognitive organization.

26. This differs from Sapir's view of the role of - 'i' and - 'is (Sapir, 1938:257).

type of 'logical' thinking as 'scientific' taxonomies.

28. Saunders & Davis (1975) for Salish; Stross (1975), Tzeltal.

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29. Some areas for future research include: the interaction of governing suffixes with restrictive locatives, presence of a subfield taxonomy for action restrictive LS's, correlation between RLLS and root denoting the nominal for that location, structure of layered derivations, semantic interpretation of RLLS's in contexts other than hit- and in compounds of more than two RLLS's, etc.

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