

Reversing the Projection: The middle suffix in Salish

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Problem

The middle morpheme –*m* in Halkomelem Salish is polyfunctional, being used to mark some unergatives, denominals, antipassives, and inchoatives (Gerdts and Hukari 2006). Unaccusative (externally caused change of state) intransitive verbs have no morphology.

Data

(1) Monoargumental Intransitives

Group One: Actions

Activities:

həw'al'əm 'play' šk'^wam' 'swim'

Manner of Speaking Verbs:

'howl' q'ewəm 'laugh' yənəm

Motion Verbs

c'tem 'crawl' cì'əm 'jump'

Spatial Configuration

'kneel' q'ewəm

'face towards' ?asəm

Group Two: Non Agentive Events

Body Processes

'tremble' c'ənəm 'sneeze' hesəm c'isəm 'grow'

Motion Verbs (nonagentive)

'roll' siləm 'fall from a hiləm height'

'ripple' meyəqəem Change of State(no external cause is implied)

p'a:m 'swell up' 'bloom' p'eq'əm t'θatθəq'wəm 'rotting'

Verbs of Emission

'glitter' łew'səm 'smell bad' haq^wəm λ'ewəq'əm 'flicker (light)'

'break some off'

t^θə

DET

(2) Antipassive/Unaccusative

Intransitive Transitive

Antipassive pən'-əm pən-ət pən 'get buried' 'plant, sow' 'bury it' q'p-e?əm q'əp q'p-ət 'gathered' 'gather it' 'gather' k'^wes k'ws-e?əm k'wes-ət 'get hot' 'heat it' 'heat over flames, singe' mit'θ mət'θ-eʔəm mit'θ-ət 'get mashed 'mash it' 'mash' pqwa-t pqw-e?əm pəqw

sq'-e?əm sq'e-t səq' 'tear it' 'tear off a piece' 'split, tear' (2a) k'wət kwθə štihelə.

spill teapot

The kettle spilled.

'break it'

t^θə (2b) k'w+-t-əs ni? qa?. spill-tr-3erg det **AUX** water He poured the water.

go qa?. water

nem'

Go pour some water (for the people).

k'wf-e?əm

OBL

spill-AP

(3)Inchoative

'break'

(2c)

'get calm' liqw 'slack' liq^wəm 'get happier' ?iyəs 'happy' ?iyəsəm 'sleep' 'get sleepy' itət ?itətəm (4) Denominal wekən 'go by wagon' 'wagon' wekənəm 'sail' (n.) 'sail' (v.) patən patənəm 'drum' (n.) q'əwətəm 'drum' (v.) q'əwət

Proposal

Monargumental intransitives with -m are **unergative**. The morpheme -m is a v head that combines with a root to create an eventive verb that introduces an argument.

(5) $m: \lambda R \lambda x \lambda e[R(e,x)]$ $[_{VP}[_{V} Root-m] NP]$

Unaccusative (externally caused change of state) roots merge with a null v head that introduces an event argument only. Their entity argument is introduced by a separate head, Trans (Zeller 1998), which contains an undergoer thematic role predicate, similar to the way the external argument is introduced in Kratzer (1996).

(6) $v:\lambda R \lambda e[R(e)]$ Trans: $\lambda x \lambda e[und(e,x)]$ [TransP NP [Trans' Trans [VP [V Root]]]] $\lambda x \lambda e[und(e,x) \& V(e)]$

Transitive verbs based on unaccusative roots introduce both arguments through thematic role predicates in separate heads external to the VP, Voice and Trans.

(7) Voice_{trans}-t: $\lambda x \lambda e[agent(e, x)]$ [VoiceP NP [Voice t [TransP NP [Trans Trans [VP [V v Root]]]]]]] $\lambda e[agent(e, NP) \& und(e, NP) \& V(e)]$ (see Wiltschko (2006) for discussion of -t)

Support

Variable/Stable Thematic Role

The thematic role of the -m intransitive is given by the root itself; we do not necessarily expect a consistent thematic role to be assigned.

For intransitive verbs that appear with null morphology, Gerdts and Hukari (2006:37) point out they are change of state verbs with an implied external causer.

The sole NP of null morphology verbs are consistently patients or undergoers, being introduced syntactically.

Selectional restrictions on argument

Some -m verbs select specific types of arguments. (8a) liqwəm 'get calm' applies to water and weather. (8b) x^w?ənəx^wəm 'stop' applies to the flow of the tides.

'Roll' and Transitivity (Gerdts and Hukari 1998)

(9) Intransitive

na?ət yə-sil'-əm' snəx^wəl-s ser-roll-mid DET canoe-3.Pos AUX

kwθə xwənitəm'. white.man DET The white man's car is rolling.

(10) Transitive

t^θə Nem' wekən si:lt roll-TR go **DET** wagon 29 tθə stal'əw'. qwsət dip-TR river OBL **DET** Go and roll the wagon into the river.

- -els intransitivizer, which introduces an agentive argument, cannot appear on si:l 'roll', nor does it appear with typical unergatives *q'wəyiləš-els 'dance'.
- (12) Internally caused unergative in the intransitive Intransitive sil'-əm: $\lambda x \lambda e[roll(e, x)]$ $[_{VP} [_{V} \text{ si:l-əm}] [_{NP} \text{ snəx}^{W} \text{əl-s k}^{W} \theta \text{ə xwənitəm'}]]$ $\lambda e[roll(e, car)]$
- (13) Externally caused in the transitive Transitive: si:l: $\lambda e[roll(e)]$ [VoiceP pro [Voice t [TransP [wekən] [Trans Trans [VP [V v sil]]]]]] $\lambda e[agent(e, you) \& und(e, wagon) \& roll(e)]$

Support (cont.)

Antipassives

The -m morpheme appears on unaccusative roots with two-argument semantics but intransitive syntax. They merge with -m to introduce an argument which appears within the VP, where the NP gets an oblique case.

(14)*Root*: k'^wə⁴

Unaccusative k'wə\frac{1}{2}: $\lambda e[spill(e)]$

 $\lambda x \lambda e[und(e, kettle) \& spill(e)].$

(15)Antipassive: $k'^{w}+e^{2}=m: \lambda x \lambda e[spill(e,x)]$

 $[V_{\text{oice}}]$ pro $[V_{\text{oice}}]$ Voice $[V_{\text{P}}]$ $[V_{\text{V}}]$ $[V_{\text{NP}}]$ $[V_{\text{NP}}]$ $[V_{\text{Oice}}]$ $[V_{\text{Oice}}]$ $[V_{\text{Oice}}]$ $[V_{\text{Oice}}]$

 $\lambda e[agent(e, he) \& spill(e, water)]$ (16) Transitive: $k'^{w} \ni + : \lambda e[spill(e)]$

 $[V_{\text{oiceP}} \text{ pro } [V_{\text{oice'}} \text{ t } [T_{\text{ransP}} \text{ t}^{\theta} \text{ a a } [T_{\text{rans'}} \text{ Trans } [V_{\text{P}} \text{ } [V_{\text{V}} \text{ k'}^{\text{w}} \text{ b }]]]]]]]$ $\lambda e[agent(e, he) \& und(e, water) \& spill(e)]$

(17) null antipassive

?ə\tən **7**ə ce? 39 eat 2.SUB **FUT** Q OBL

k'w sqəw? native.bread **DET**

Will you eat some First Nations style bread?

These verbs skew toward the non-core transitive verb, which license their own argument (RH and Levin 1998).

The *-els* suffix (Gerdts and Hukari 2010, Galloway 1993) Galloway (1993:254) notes that "the examples show that the subject is a semantic agent, doing the action on purpose (except where the agent is inanimate) and the semantic focus is upon the activity not upon its result" (18a) hóqw-els 'smelling/sniffing'

(18b) hógw-em 'smell, give off a smell'

(19) -els antipassive (more common than -m)

t^θə na?ət qws-els **39** go.in.water.ACT DET AUX OBL

sce:\tən. λ'eləm' salted salmon She soaked the salted fish.

(20) -els and -m can cooccur

q'wəl-əm-els cən ce? ?ə sce: tən. bake-mid-act 1sub fut obl det salmon I am going to barbeque fish.

-els is an intransitive Voice head that introduces an agent thematic role predicate.

(21) [_{VoiceP} NP [_{Voice'} els [_{VP} [_V v hóqw]] $\lambda e[agent(e, NP) \& smell(e)]$ (22) $[_{VP} [_{V} \text{ hóqw-m}] NP]$ $\lambda e[\text{smell}(e, NP)]$

(23)[$_{\text{VoiceP}}$ pro [$_{\text{Voice'}}$ els [$_{\text{VP}}$ [$_{\text{V}}$ q' $^{\text{W}}$ əl-əm][$_{\text{NP}}$?ə k' $^{\text{W}}$ sce: $^{\text{H}}$ tən]]] $\lambda e[agent(e, I) \& barbeque(e, salmon)]$

Consequences

A unified analysis of the middle morpheme -m is given.

Internal arguments can (but need not) be introduced by the morphosyntax (Borer 2005, 2013, Londahl 2014).

Some arguments have a thematic role assigned by the root but are introduced through the morphosyntax.

The verbs that have their argument structure built up completely syntactically are core transitive verbs.

Unergative NPs can be internal to VP; unaccusative NPs are external, which reverses standard practice.