

DIRECT OBJECT INCORPORATION AND ~~POSSESSOR~~ RAISING IN CHUKCHI
Alexey Vinyar, NRU HSE
ILS RAS 2017

0. Introduction

0.1. Chukchi language

- Endangered (<4500 speakers [Census 2010]).
- Data – 2016-2017 field trips to Amguema village (North-Eastern Chukotka)¹
- Clear phonological and grammatical word – defined by vowel harmony domain (1)

(1) a.	<i>tip̡ejye-k</i> sing-INF 'to sing'.	b.	<i>tep̡ajya-γyo-k</i> sing-INCH-INF 'to start singing'.
--------	---	----	---

- 'Free' (discourse-based) word order [Dunn 1999])
- Indexation of A, S and P on the verb (in particular TAM forms) (2, 3)
- Ergative case pattern – S/O marked with Nominative, A – Instrumental.

(2)	<i>ətləy-e</i> father-INS	<i>ekk-in</i> son-POSS	<i>wałə</i> knife.NOM.SG	<i>Ø-pəne-ni-n</i> 2/3.S/A-sharpen-3SG.A.3.O-3SG.O
'Father sharpened the son's knife'.				
(3)	<i>yəmə-ka-jpə</i> I-obl-ABL	<i>qora-t</i> reindeer-NOM.PL	<i>Ø-yəntek-w̡e-t</i> 2/3.S/A-run.away-TH-PL	
'The reindeers ran away from me'.				

♠ Productive and robust N(oun) I(norporation)

- Noun stem-verb stem compound
- P-like (5) or S_P-like (4) argument can be incorporated².
- Incorporated Noun is no longer indexed on the verb (4-5).

(4) S_P argument incorporated

a.	<i>nəmətəmə-k</i> village-LOC	<i>jara-t</i> house-ABS.PL	<i>ye-simet-r̡u-line-t</i> PF-break-DISTR-PF.3PL-PL
b.	<i>nəmətəmə-k</i> village-LOC	<i>ya-ra-semat-r̡o-łen</i> PF-house-break-DISTR-PF.3SG	

'In the village, the house has been broken'.

(5) D(irect) O(bject) is incorporated

¹ Мы благодарны нашим учителям чукотского за их труд и терпение.

² This study is focused on the incorporation of P-like argument. However, adjuncts of various types can be incorporated into verb stem in Chukchi (see [Skorik 1948], [Muravyova et al. 2001]).

- a. *ətl̡a-ta* *riłqrit* *r-ejmew-ni-n* *ŋaakka-ytə*
 mother-INS kasha.NOM.SG TR-approach-3SG.A.3.O-3SG.O daughter-DAT
- b. *ətl̡a* *riłq-n-ejmek-wʔ-i* *ŋaakka-ytə*
 mother.NOM.SG kasha-TR-approach-TH-2/3SG.S daughter-DAT
 ‘Mother brought kasha closer to the daughter’.

➤ Another NP can take the position ‘left’ by an incorporated NP (compare (5b to 6) and (7a to 7b)). [Kozinsky et al. 1988] and [Nedjalkov & Polinskaja 1990] show that it can be used to manipulate information structure (Type III incorporation by [Mithun 1984])

(6) I(ndirect) O(bject) Raising

- ətl̡a-ta* *riłq-n-ejmew-ni-n* *ŋeekək-∅*
 mother-INS kasha-TR-approach-3SG.A.3.O-3SG.O daughter-NOM.SG
 ‘Mother brought kasha closer to the daughter’.

(7) P(osessor) R(aising)

- a. *nute-wiriŋə-lʔ-e* *ʔeqetl̡-in* *pil̡yə-n* *swi-ni-n*
 land-protect-ATR-INS enemy-POSS throat-NOM.SG cut-3SG.A.3.O-3SG.O
- b. *nute-wiriŋə-lʔ-e* *pil̡yə-swı-ni-n* *ʔeqetl̡ə-n*
 land-protect-ATR-INS throat-cut-3SG.A.3.O-3SG.O enemy-NOM.SG
 ‘The defender of the Motherland cut the enemy’s throat’.

♣ **Our focus:** what are the different kinds of ‘Raising’ in Chukchi? How are they related to each other?

0.2. Noun Incorporation and ‘Raising’

Most common/studied: ‘Possessor Raising/Stranding’ ([Baker et al. 2005]), ‘Possessor Ascension’ ([Rosen 1989], [Spencer 1995]).

➤ Possessor ‘inside’ NP → NP ‘head’ (via Incorporation)
 ➤ In many languages – only inalienable possessors are ‘Raised’ ([Baker 1988], [Evans 2003], [Barrie 2016]). In some – alienable, too [Baker et al 2005]
 ➤ ‘Mainstream’ analysis – ‘Possessor Raising’. Another possibility – unmarked applicative (see [Michelson 1991] for Northern Iroquoian, [Baker et al 2005: 168-170] for Mapudungun, [Spencer 1995: 472] for Chukchi) (8).

(8) Possessor Raising VS Indirect Object Raising (from [Baker et al. 2005])

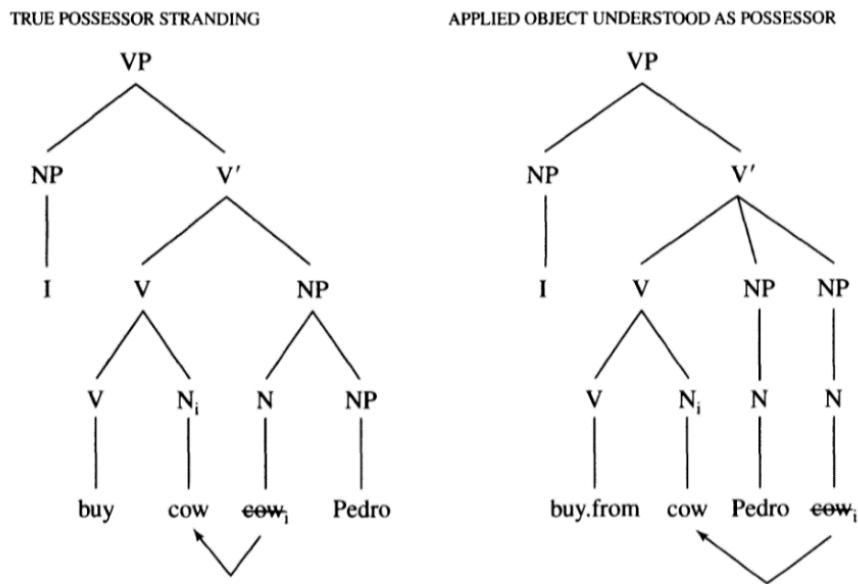


FIGURE 5. Possessor stranding compared to applicative structures.

Chukchi has both IO Raising (10) and Possessor Raising (9):

(9) Possessor Raising

- | | | | | |
|----|----------------|-----------------|----------------------|------------------------------|
| a. | <i>ekke-ne</i> | <i>ətləy-in</i> | <i>ɻəttɻə-qey-ti</i> | <i>rə-qametwa-w-ne-na-t</i> |
| | son-INS | father-POSS | dog-DIM-NOM.PL | TR-eat-CS-3SG.A.3.O-3SG.O-PL |
- | | | | | |
|----|----------------|-----------------|--------------------------------|--|
| b. | <i>ekke-ne</i> | <i>ətləyə-n</i> | <i>ɻəttɻə-n-qametwa-w-ne-n</i> | |
| | son-INS | father-NOM.SG | dog-TR-eat-CS-3SG.A.3.O-3SG.O | |
- 'Son fed father's dogs'.

(10) Indirect Object Raising

- | | | | | |
|----|----------------|------------------|----------------------|------------------------------|
| a. | <i>ekke-ne</i> | <i>ətləy-eta</i> | <i>ɻəttɻə-qey-ti</i> | <i>rə-qametwa-w-ne-na-t</i> |
| | son-INS | father-DAT | dog-DIM-NOM.PL | TR-eat-CS-3SG.A.3.O-3SG.O-PL |
- | | | | | |
|----|-------------|------------------|--------------------------------|--|
| b. | <i>ekək</i> | <i>ətləy-eta</i> | <i>ɻəttɻə-n-qametwa-k-wɻ-e</i> | |
| | son.NOM.SG | father-DAT | dog-TR-eat-CS-TH-2/3SG.S | |
- | | | | | |
|----|----------------|-----------------|--------------------------------|--|
| c. | <i>ekke-ne</i> | <i>ətləyə-n</i> | <i>ɻəttɻə-n-qametwa-w-ne-n</i> | |
| | son-INS | father-NOM.SG | dog-TR-eat-CS-3SG.A.3.O-3SG.O | |
- 'Son fed dogs for father'.

♣ **Question:** Are these constructions distinct? Is 'Possessor Raising' a derivation from possessive construction, where possessor is embedded inside DO NP?

1. Chukchi data

1.1. 'Possessor' → Direct Object Raising

➤ Both inalienable (9) and alienable (11) possessors can be raised.

(11) Alienable possessor raised

- a. *ətləy-e* *ekk-in* *wałə* *pəne-ni-n*
 father-INS son-POSS knife.NOM.SG sharpen-3SG.A.3.O-3SG.O
- b. *ətləy-e* *wala-mna-ne-n* *ekək*
 father-INS knife-sharpen-3SG.A.3.O-3SG.O son.NOM.SG
 ‘Father sharpened son’s knife’.

➤ When DO is possessed and incorporated, ‘Possessor Raising’ is obligatory (12).

(12) Stranding (a, b) and ‘cyclic incorporation’ (c)³ not allowed

- a. **ətləy-e* *wala-mna-ne-n* *ekk-in*
 father-INS knife-sharpen-3SG.A.3.O-3SG.O son-POSS
- b. **ətləyə-n* *wala-mna-yʔ-e* *ekk-in*
 father-NOM.SG knife-sharpen-TH-2/3SG.S son-POSS
- c. **ətləyə-n* *akka-wala-mna-yʔ-e*
 father-NOM.SG son-knife-sharpen-TH-2/3SG.S
 ‘Father sharpened son’s knife’.

Summary:

- ♠ PR is *obligatory* when DO is incorporated
- ♠ No special restrictions on the type of possessor are imposed

1.2. Indirect Object → Direct Object Raising

➤ Raising is optional (compare (13b) and (13c))⁴

(13) Recipient Raising

- a. *ətləp-a-ta* *riłqrit* *r-ejmew-ni-n* *ŋaakka-ytə*
 mother-INS kasha.NOM.SG TR-approach-3SG.A.3.O-3SG.O daughter-DAT
- b. *ətlə* *riłq-n-ejmek-wʔ-i* *ŋaakka-ytə*
 mother.NOM.SG kasha-TR-approach-TH-2/3SG.S daughter-DAT
- c. *ətləp-a-ta* *riłq-n-ejmew-ni-n* *ŋeekək*
 mother-INS kasha-TR-approach-3SG.A.3.O-3SG.O daughter.NOM.SG
 ‘Mother brought kasha closer to the daughter’.

➤ Beneficiaries and Maleficiaries (14) can be raised (even when they are adjuncts (15))

(14) Maleficiary raising

³ This is disallowed according to independent reasons (see [Kozlov *forthcoming*]). With relational ‘cyclic’ incorporation is possible.

⁴ For some verbs, either ‘NI with Raising’ or ‘NI without Raising’ is considered by some speakers ‘more natural’. However, with the majority of verbs both constructions are considered possible.

- a. *aʔasek-a enewna-ne-na-t* *ŋinqeŋ-epə mane-t*
guy-INS take.away-3SG.A.3.O-3SG.O-PL boy-ABL money-NOM.PL
- b. *aʔasek-∅ man-enewna-yʔ-e* *ŋinqeŋ-epə*
guy-NOM.SG money-take.away-TH-2/3SG.S boy-ABL
- c. *aʔasek-a man-enewna-ne-n* *ŋinqeŋ*
guy-INS money-take.away-3SG.A.3.O-3SG.O boy.NOM.SG
‘A guy took away some money from the boy’.

(15) Beneficiary (adjunct) raising

- a. *ətləy-e wałə-∅ pəne-ni-n enarałʔ-etə*
father-INS knife-NOM.SG sharpen-3SG.A.3.O-3SG.O neighbour-DAT
- b. *ətləyə-n wałə-mna-yʔ-e enarałʔ-etə*
father-NOM.SG knife-sharpen-TH-2/3SG.S neighbour-DAT
- c. *ətləy-e wałə-mna-ne-n enarałʔə-n*
father-INS knife-sharpen-3SG.A.3.O-3SG.O neighbour-NOM.SG
‘Father sharpened the knife for the neighbour’.

➤ Inanimate participant (Goal) can be raised (16)

(16) Goal Raising

- a. *ewirʔə-t jəme-ne-na-t pʔajmejɔłyə-tkənə-k*
cloth-NOM.PL hang-3SG.A.3.O-3SG.O-PL drying.stick-TOP-LOC
- b. *awerʔə-jme-yʔ-e pʔajmejɔłyə-tkənə-k*
cloth-hang-TH-2/3SG.S drying.stick-TOP-LOC
- c. *awerʔə-jme-ne-n pʔajmejɔłyə-n*
cloth-hang-3SG.A.3.O-3SG.O drying.stick-NOM.SG
‘(Mother) hang daughter’s cloth on the drying stick’.

➤ Raised participant must be somehow ‘involved’ in the action or ‘affected’ by it (see (17), where raising is impossible)

(17) Goal is not involved

- a. *ətləy-e ya-jopat-łena-t kupre-t yəty-eta*
father-INS PF-go.check-PF.3SG-PL net-NOM.PL lake-DAT
- b. *ətləyə-n ya-kopra-jopat-łen yəty-eta*
father-NOM.SG PF-net-go.check-PF.3SG-PL lake-DAT
- c. **ətləy-e ya-kopra-jopat-łen yətyə-n*
father-INS PF-net-go.check-PF.3SG lake-NOM.SG
‘Father went to check the nets for the lake’.

Summary:

♠ Raising isn’t obligatory

- ♠ Both adjuncts and oblique arguments can be raised
- ♠ Raised argument should be ‘affected’ by the action

1.3. Interaction between POSS → DO and IO → DO

- ♣ What happens when possessed DO is incorporated and IO is present?

Assumption: PR is an ‘automatic’ derivation from possessive construction ([Baker et al. 2005], [Barrie 2016]), optional IO → DO Raising is a distinct process

Expectations: When the possessed DO is incorporated while IO is present, possessor will raise to DO and IO will remain IO

Reality: If Goal/Recipient/Bene(Male)ficiary IO is present, no incorporation of possessed DO is allowed

➤ Alienable possession:

(18) IO (Recipient) blocks ‘Possessor Raising’

- | | | | | | |
|----|---|---------------|-------------------------------|----------------------|------------------|
| a. | <i>ətl̥p̥a-ta</i> | <i>ekk-in</i> | <i>rilq̥rit</i> | <i>jil-ni-n</i> | <i>ŋaaka-ytə</i> |
| | mother-INS | son-POSS | porridge.NOM.SG | give-3SG.A.3.O-3SG.O | daughter-DAT |
| b. | * <i>ətl̥p̥a-ta</i> | <i>ekək</i> | <i>rilq̥ə-jil-ni-n</i> | | <i>ŋaaka-ytə</i> |
| | mother-INS | son.NOM.SG | porridge-give-3SG.A.3.O-3SG.O | | daughter-DAT |
| | ‘Mother gave son’s porridge to the daughter’. | | | | |

(19) IO (Place) blocks ‘Possessor Raising’

- | | | | | |
|----|---|-----------------|----------------------------|----------------------------|
| a. | <i>ətl̥p̥a-ta</i> | <i>ŋeekk-in</i> | <i>ewir̥p̥ə-t</i> | <i>jme-ne-na-t</i> |
| | mother-INS | daughter-POSS | cloth-NOM.PL | hang-3SG.A.3.O-3SG.O-PL |
| | <i>p̥ajmejotyə-tkənə-k</i> | | | |
| | drying.stick-TOP-LOC | | | |
| b. | * <i>ətl̥p̥a-ta</i> | <i>ŋeekək</i> | <i>awer̥p̥ə-jme-ne-n</i> | <i>p̥ajmejotyə-tkənə-k</i> |
| | mother-INS | daughter.NOM.SG | cloth-hang-3SG.A.3.O-3SG.O | drying.stick-TOP-LOC |
| | ‘Mother hang daughter’s clothes on the drying stick’. | | | |

Even when Beneficiary is an adjunct, possessed DO can’t be incorporated (20):

(20) Adjunct (Beneficiary) blocks ‘Possessor Raising’

- | | | | | | |
|----|---|---------------|-------------------------------|-------------------------|----------------------|
| a. | <i>ətl̥ay-e</i> | <i>ekk-in</i> | <i>watə</i> | <i>pəne-ni-n</i> | <i>enaral̥p̥-etə</i> |
| | father-INS | son-POSS | knife.NOM.SG | sharpen-3SG.A.3.O-3SG.O | neighbor-DAT |
| b. | * <i>ətl̥ay-e</i> | <i>ekək</i> | <i>watə-mna-ne-n</i> | | <i>enaral̥p̥-etə</i> |
| | father-INS | son.NOM.SG | knife-sharpen-3SG.A.3.O-3SG.O | | neighbor-DAT |
| | ‘Father sharpened son’s knife for the neighbour’. | | | | |

When IO of trivalent verb is omitted, incorporation of possessed DO and PR still can't proceed:

- (21) #*atl?a-ta* *ŋeekək* *awer?ə-jme-ne-n*
 mother-INS daughter.NOM.SG cloth-hang-3SG.A.3.O-3SG.O
 Impossible meaning: ‘Mother hang daughter’s clothes’; Possible meaning ‘Mother hang clothes on her daughter’.

➤ Even inalienable possessors can’t be raised (22)⁵

(22) Incorporation impossible

- a. *atl?a-ta* *toptər-ətə* *ekk-in* *mənyə-tyə-n* *rəkałərow-ne-n*
 mother-INS doctor-DAT son-POSS hand-SING-NOM.SG show-3SG.A.3.O-3SG.O
- b. **atl?a-ta* *toptər-ətə* *ekək* *mənyə-nkałərow-ne-n*
 mother-INS doctor-DAT son.NOM.SG hand-show-3SG.A.3.O-3SG.O
 ‘Mother showed son’s hand to the doctor’.

Preliminary analysis:

- ♠ Why there is no PR when there is an overt (or implied) IO?
- ♠ IO somehow ‘blocks’ PR → Incorporation is disallowed, because possessor can’t remain ‘unraised’
- ♠ There is no ‘Possessor Raising’ in [Baker et al. 2005]’s sense in Chukchi

2. Discussion

Possible explanations:

- ♠ ‘Possessor Raising’ is syntactically ‘IO Raising’, so another IO blocks it ([Michelson 1991] analysis of Northern Iroquoian ‘Possessor Raising’)
- ♠ ‘Raising to DO via Incorporation’ is a separate construction in Chukchi with special semantic restrictions on raised argument (like proposed by [Nedjalkov 1977] for Subject Incorporation in Chukchi)

2.1. Why POSS → DO isn’t IO → DO?

Possible analysis: if all POSS → DO constructions have semantically equivalent IO → DO constructions (like (9) and (10)).

However:

- Some constructions with ‘inanimate possessors’ (expressed by relational), there is REL → DO (23), but no IO → DO (24).

(23) REL → DO ‘Raising’

⁵ The picture is a bit more complicated, however the details don’t affect the present analysis.

- a. *rətəmnew-ni-n* *saj-koka-ken* *kayəryajpə-n*
 lose-3SG.A.3.O-3SG.O tea-pot-REL cover-NOM.SG
- b. *kayəryajpə-nətəmnew-ne-n* *saj-kok*
 cover-lose-3SG.A.3.O-3SG.O tea-pot.NOM.SG
 ‘He lost the tea pot’s cover’.
- (24) **rətəmnew-ni-n* *saj-koka-jpə* *kayəryajpə-n*
 lose-3SG.A.3.O-3SG.O tea-pot-ABL cover-NOM.SG
 Intended meaning: ‘He lost the tea pot’s cover (He lost the cover from the tea pot)’.

➤ Difficult to explain how an implied IO (21) can block POSS → DO...

2.2. Special construction?

- ♠ ‘Raising to DO via Incorporation’ has little connection to corresponding analytical constructions
- ♠ Arguments ‘promoted’ by it need to meet special requirements
- ♠ What are these requirements?
 - ‘Place’ (25) and ‘Source’ (26) IOs can’t be raised → Raised participant should belong to ‘Goal/Beneficiary’ cluster?

(25) Place can’t be raised

- a. *ətl̥a-ta* *əpan-ne-n* *linliŋ* *kuke-səku*
 mother-INS cook-3SG.A.3.O-3SG.O heart.NOM.SG pot-IN.LOC
- b. *ətl̥a* *lənley-əpat-γ̥-e* *kuke-səku*
 mother.NOM.SG heart-cook-TH-2/3SG.S pot-IN.LOC
- c. #*ətl̥a-ta* *lənley-əpan-ne-n* *kuke-ŋə*
 mother-INS heart-cook-3SG.A.3.O-3SG.O pot-NOM.SG
 ‘Mother cooked a heart in the pot’ ((c) means ‘for the pot’).

(26) Source can’t be raised

- a. *ətl̥a* *awer̥-ŋəto-γ̥-e* *səŋla-jpə*
 mother.NOM.SG cloth-get.out-TH-2/3SG.S box-ABL
- b. #*ətl̥a-ta* *awer̥-ŋəto-ne-n* *seŋəł*
 mother-INS cloth-get.out-3SG.A.3.O-3SG.O box.NOM.SG
 ‘Mother got the cloth out from the box’ ((c) means ‘for the box’).

➤ Raised NP can be understood either as Goal (27) or Beneficiary (28) depending who is ‘more affected’ or ‘more involved’

(27) Goal is raised

- a. *ətl̥a-ta* *məsəkwə-n* *mumkəł-nətipen-ni-n* *akka-γtə*

	mother-INS	shirt-NOM.SG	button-sew-3SG.A.3.O-3SG.O	son-DAT
b.	*ətl̡a-ta	məsəkwə-tkənə-k	ekək	mumkət-nətipen-ni-n
	mother-INS	shirt-TOP-LOC	son.NOM	button-sew-3SG.A.3.O-3SG.O

‘Mother sewed button on the shirt for the son’.

(28) Beneficiary is raised

a.	aðasek-a	yakan-qora-t	peła-ne-na-t	
	guy-INS	sledge-reindeer-NOM.PL	leave-3SG.A.3.O-3SG.O-PL	
	ŋetwəł?ə-k	ətl̡ay-ətə		
	herd-LOC	father-DAT		
b.	aðasek-a	ətl̡ayə-n	yakan-qor-peła-ne-n	ŋetwəł?ə-k
	guy-INS	father-NOM.SG	sledge-reindeer-leave-3SG.A.3.O-3SG.O	herd-LOC
c.	*aðasek-a	ŋetwəł?ə-	yakan-qor-peła-ne-n	ətl̡ay-ətə
	guy-INS	herd-NOM.SG	sledge-reindeer-leave-3SG.A.3.O-3SG.O	father-DAT

‘The guy left the reindeers used for sledge for father in the herd’.

- This can explain the ban on POSS → DO Raising when IO is present: possessor is neither the most directly-affected, nor the most Beneficiary/Goal-like participant in these constructions.

(29) ‘Possessor’ can be raised when IO is Source and not affected

a.	ətl̡ay-in	mane-t	ne-tuł?et-ne-t	saŋla-jpə
	father-POSS	money-NOM.PL	LOW.A-steal-3SG.O-PL	box-ABL
b.	ətl̡ayə-n	na-mane-toł?at-y?a-n	saŋla-jpə	
	father-NOM.SG	LOW.A-money-steal-TH-3SG.O	ящик-ABL	

‘They stole father’s money from the box’/‘They stole the money from father from the box’.

(30) ‘Possessor’ can’t be raised when IO is animate Source and affected

a.	enewna-ne-na-t	ŋinqej-epə	ətl̡ay-in	mane-t
	take.away-3SG.A.3.O-3SG.O-PL	boy-ABL	father-POSS	money-NOM.PL
b.	*ətl̡ayə-n	man-enewna-ne-n	ŋinqej-epə	
	father-NOM.SG	money-take.away-3SG.A.3.O-3SG.O	boy-ABL	

‘He took father’s money away from the boy’.

3. Conclusions

- ♠ Possessor can be ‘raised’ only if interpreted as Beneficiary/Recipient/Goal of the action → There is no ‘Possessor Raising’ in Chukchi
- ♠ ‘Raised’ participant should be Beneficiary/Goal-like and the most affected and directly involved in the situation

- ♠ Facts presented confirm [Nedjalkov 1977], [Nedjalkov & Polinskaja 1987] and [Kozinsky et al. 1988] observations that incorporation in Chukchi is used to promote prominent and affected participants
- ♠ Chukchi ‘raising pattern’ differs from those of Bininj Gun-Wok [Evans 2003] and Mohawk [Baker 1988]? Is ‘affectedness-prominent’ and ‘alienability-prominent’ distinction (see [Muro 2009]) valid?

Sources

Недялков 1977 — В. П. Недялков. Посессивность и инкорпорация в чукотском языке (инкорпорация подлежащего) // В. С. Храковский (ред.). *Проблемы лингвистической типологии и структуры языка*. Л.: Наука, 1977. С. 108–138.

Baker 1988 — M. C. Baker. Incorporation: A theory of grammatical function changing. Chicago: University of Chicago Press, 1988.

Baker 1996 — M. C. Baker. The Polysynthesis Parameter. Oxford: Oxford University Press, 1996.

Baker et al. 2005 — M. C. Baker, R. Aranovich, L. A. Golluscio. Two types of syntactic noun incorporation: Noun incorporation in Mapudungun and its typological implications // *Language*, 81, 2005. P. 138–176.

Barrie, Michael. 2016, to appear. Two kinds of structural noun incorporation. *Studia Linguistica*.

Census, 2010. Vserossijskaya perepis' naseleniya 2010. Tom 4. Natsional'nyj sostav i vladenie yazykami, grazhdanstvo. p. 20. Vladenie yazykami naseleniem korennyh malochislennyh narodov Rossijskoj Federatsii. [All-Russia population census 2010. Volume 4. Nationalities and language command, citizenship. p. 20. Command of the indigenous minority languages of the Russian Federation.] <http://www.gks.ru/free_doc/new_site/perepis2010/croc/Documents/БVol4/pub-04-20.pdf> (30 September 2017).

Dunn 1999 — M. Dunn. A Grammar of Chukchi. Ph. D. Diss. Canberra: ANU, 1999.

Evans, Nicholas. 2003. Bininj Gun-wok: A pan-dialectal grammar of Mayali, Kunwinjku and Kune. Canberra: Pacific Linguistics.

Kozinsky et al. 1988 — I. S. Kozinsky, V. P. Nedjalkov, M. S. Polinskaja. Antipassive in Chukchee: Oblique object, object incorporation, zero object // Shibatani M. (ed.). *Passive and voice*. Amsterdam: J. Benjamins, 1988. P. 651–706.

Kozlov *manuscript* – Incorporation in Chukchi noun phrase and how to avoid it.

Michelson, Karin. 1991. Possessor Stranding in Oneida. In *Linguistic inquiry*, Vol. 22, 756–761.

Mithun 1984 — M. Mithun. The evolution of noun incorporation // *Language* 60(4), 1984. P. 847–894.

Muravyova, Irina 2004. *Tipologija incorporatsii* (*Typology of incorporation*). Post-doc dissertation. Moscow, 2004 (in Russian).

Muravyova et al. 2001 — I. A. Muravyova, M. A. Daniel, T. Ju. Zhdanova. Chukchi language and folklore in texts collected by V.G.Bogoraz. Part 1, Part 2. M., 2001 (Unpublished).

Muro, Allesio. 2009. Noun incorporation: A new theoretical perspective. Ph.D. Dissertation, Università degli Studi di Padova.

Polinskaja & Nedjalkov 1987 — M. Polinskaja, V. P. Nedjalkov. Contrasting the absolutive in Chukchee // *Lingua* 71, 1987. P. 239–269

Rosen 1989 — S. T. Rosen. Two Types of Noun Incorporation: A Lexical Analysis // *Language*, 65, 1989. P. 294–317.

Skorik, Petr 1948. *Otsherk po sintaksisu chukotskogo jazyka: incorporatsia* (A sketch of Chukchi syntax: incorporation). Leningrad: Uchpedgiz, 1948 (in Russian).

Spencer, Andrew. 1995. Incorporation in Chukchi. *Language* 71: 439–489.