GRAMMATICALIZATION VS. REANALYSIS: EVIDENCE FROM RUSSIAN ADVERBIAL STRUCTURES

I. The dilemma: grammaticalization vs. reanalysis

- For many researchers grammaticalization necessarily involves a change in the (syntactic) distribution of an element and, thus, grammaticalization *ipso facto* presupposes reanalysis.
 - ⇒ This kind of understanding is not followed any further.
- ➤ A more specific understanding: the two processes are viewed as **distinct** phenomena.

«Unquestionably, reanalysis is the most important **mechanism of** grammaticalization» [Hopper & Traugott 1993: 32].

«[T]ypically, reanalysis **accompanies** grammaticalization» [Heine et al. 1991: 217].

Reanalysis & grammaticalization: <u>definitions</u>

Reanalysis: «[A] change in the structure of an expression or class of expressions that does not involve any immediate or intrinsic modification of its surface manifestation» [Langacker 1977: 59]. Grammaticalization: "an evolution whereby linguistic units lose in semantic complexity, pragmatic significance, syntactic freedom, and phonetic substance" [Heine & Reh 1984: 15].

➤ Haspelmath's approach

Reanalysis without grammaticalization:

- (4a) $[Er\ ging\ [um\ Wasser_i]_{PP}\ [\emptyset_i\ zu\ holen]_{S-INF}]_S.$
- (4b) $[Er ging [um_{COMP} [Wasser zu holen]_S]_{S'-INF}]_S$.

considering

failing

Grammaticalization without reanalysis:

from [Kortmann & König 1992: 684] lowest degree of grammaticalization

preceding

facing

highest degree

past

ago

during

pending

Grammaticalization	Reanalysis
loss of autonomy/substance	no loss of autonomy/substance
gradual	abrupt
unidirectional	bidirectional
no ambiguity	ambiguity in the input structure
due to language use	due to language acquisition

according to

owing to

II. The data

- > Empirically-driven study;
- Russian structures that synchronically function as (less-than-clausal) adverbials;
- > Synchronically opaque (idiosyncratic? non-compositional?) syntactic structure;
- ➤ Thus, potential explanation by way of a (micro-)diachronic analysis;
- ➤ Data from the National Corpus of the Russian Language (NLRC, www.ruscorpora.ru)
 - > 140 000 000 words
 - XVIII-XXI centuries

III. Case study 1: vo glave s ... 'headed by'

The use under study:

(1) ... ucheniki sobiralis'... i vo glav-e s direktor-om exali na promysel.
and in head-LOC with director-INS went
'The pupils gathered and went to the work headed by the director' (Panteleev, 1938-1952)

Golova & glava in Modern Russian:

golova (< Old Russian) 'head (body-part)'
glava (< Old Church Slavonic) 'chapter', 'chief, boss'</pre>

⇒ Glava lost its original body-part reading.

Frequency of golova & glava:

	1700-1800		1850-1900		1930-1950		1980-2000	
	N	per mln						
golova	871	327	20449	966	17744	933	25525	928
glava	848	319	3437	162	3695	194	5593	203

(Semi-)predicative vo glave 'to head, to command, to lead' (from 18th century onward)

- (2) Knjaz' Lambez ... vstupaja ... v Tjul'erijskij sad vo glav-e svoego polk-a ... udaril... entering in Jardin des Tuileries in head-LOC of.his regiment-GEN 'Prince Lambez, who entered Jardin des Tuileries heading his regiment, hit ...' (Zhurnal..., 1789).
- (3) Pobedonoscev byl vo glav-e dobrovol'nogo flot-a...

 was in head-LOC fleet-GEN

 'Pobedonoscev was heading the volunteer fleet' (Vitte, 1911).
 - > Human protagonist as the subject, group-noun as the headed 'location';
 - > Vo glave in the 'heading' meaning: almost never with agreeing modifiers;
 - ➤ *V glave*: almost never in the 'heading' meaning;

<u>V glave vs. vo glave</u>: frequency per mln

	1700-1800	1850-1900	1930-1950	1980-2000
v glave	13,9	28,7	5,5	1,9
vo glave	3,4	2,6	46,6	35,0

Comitative vo glave-construction:

- ➤ Only 1 example from the 18th century:
- (4) *Vperedi* ... *exala* ... *kavalerija*, *s de-Lafaet-om vo glav-e* was.moving cavalry, **with** de-Lafayette-INS in head-LOC 'The cavalry was moving in front, headed by de Lafayette' (Zhurnal, 1789).
 - > Sporadic uses in the texts up to the mid-19th century;

Frequency of comitative vo glave-constructions:

	1800-1850	1850-1900	1900-1920	1950-1970	1990-1995
N of comitative vo glave	8	97	195	206	138
per mln	1,1	4,6	15,7	13,9	13,6
% among <i>vo glave</i>	6,1%	16,0%	24,3%	43,1%	54,6%

- > These structures become increasingly frequent from the mid-19th century;
- ➤ A slow decline of other uses of *vo glave*

Transparent constituent structure & compositional semantics:

nachalo dejstvovat' tret'je [otdelenie [s [Benkendorf-om_i [__i vo glav-e]_{SC}]_{NP}]_{PP}]_{NP} started to operate third department with Benkendorf-INS in head-LOC 'The third department, headed by Benkendorf, started to operate' (Gershenzon, 1826-1905).

Cf. other prepositional phrases (small clauses?) embedded in the comitative structures:

- (6) ... v nebe letal ... [mal'chik ... [s [luk-om_i [__i v ruk-ax]_{SC}]_{NP}]_{PP}]_{NP} was.flying boy with bow-INS in hands-LOC 'A boy with a bow in his hands was flying in the sky' (Grishkovec, 2004).
- (7) [Dar'ja ... [s [rebenk-om_i [__ina ruk-ax]_{SC}]_{NP}]_{PP}]_{NP} poshla sledom Dar'ja with child-INS on hands-LOC 'Dar'ja went behind with the child in her arms' (Sholoxov, 1928-1940).

No increase of frequency of comitative *vo glave* constructions from the beginning of the 20th century!

Did its development stop?

NO!

Semantic inseparability of *s NP vo glave*, hence, can be qualified as "**circumpositional**". A shift towards "secondary" preposition:

- (8) Prochaja molodjozh' vo glav-e s Barcev-ym rezvilas'...
 youth in head-LOC with Barcev-INS
 'The rest of the youth, headed/led by Barcev, was frolicking' (Bykov, 2002).
 - ⇒ No multi-layered constituent structure can be posited any more.

Word order in comitative vo glave constructions:

	1850-1900	1900-1920	1950-1970	1990-1995
s [NP-Instr] vo glave ("circumposition")	78	75	26	12
vo glave s [NP-Instr] ("preposition")	19	120	180	126
% of preposition	19,6%	61,5%	87,4%	91,3%

Summary:

- ➤ No evident semantic development throughout;
- ➤ No loss of substance;
- ➤ Gradual increase in frequency;
- > Other uses are getting archaic;
- ➤ Hence, idiomaticization (exparadigmaticity and decline of semantic separability);
- ➤ Loss of transparent multi-layered constituent structure;
- ➤ A crucial role of what happened to **other** constructions;
- Overt changes in word order on the final stages

IV. Case study 2: nazad 'ago'

The use in the focus:

- (9) Katrin uexala v Avstraliju **god tomu nazad. year that.DAT ago** 'Katrin went to Australia **a year ago**' (Gazdanov, 1950).
- (10) Boris Safonov byl naznachen komandirom eskadril'ji vsego **god nazad**.
 only **year ago**'Boris Safonov was appointed squadron commander only a year ago (Gil'jardi, 1950).

Etymology:

nazad < na-zad '(on)to+back'</pre>

Early uses: subordinator kak 'as':

(11) $\textit{Desjat'let} \quad \textit{tomu}_i \quad \textit{nazad}, \quad [\textit{kak ozero sie pokryto bylo sol'ju}]_i.$

10 years that.DAT ago as

'It is ten years ago that this lake was covered by salt' (Lepexin, 1768-1769).

Lit.: 'It is ten years backwards to that, as the lake...'

➤ *Kak* 'as' heads a **dependent clause**. It is **optional** in the early texts and disappears almost entirely in the Modern texts (cf. development of similar adverbials in English [Kortmann 1996: 298]).

	1700-1800	1800-1900	1900-
nazad kak (per mln)	0,75	0,41	0,08

Early uses: non-integration into the clause

- In the older uses the *X-time* (tomu) nazad structure is found in the periphery of the sentence.
- ➤ Thje use of commas: "naive" constituency (intonation breaks? Parentheticals?)
- (12) Odin iz vashix filosofov, tomu uzhe neskol'ko vekov nazad, vstupil v moju sluzhbu.
 , that.DAT already several centuries ago,

'One of your philosophers, (it is) already several centuries ago, came to my service' (Krylov, 1789).

- ➤ Occasional use of the nominative case marker on the time-span NP. (NB: Accusative and nominative are not distinguished in non-feminine nouns):
- (13) Nedel-ja tomu nazad kak ja videl takoj ekzemplar ... week-NOM that.DAT ago as

'A week ago I saw such a specimen' (Leskov, 1888).

Lit.: It is a week ago to that, as I ...'

- > tomu is a pronominal element that is related to the whole dependent clause, cf. (11).
- ⇒ The construction at issue goes back to a multi-layered (bi-clausal) structure.

The time-reference point

- ➤ NB: Russian is a zero-copula language. Very rarely in texts one finds non-zero forms of the copula in *nazad-constructions*:
- skoro budet dva goda tomu nazad, kak on zastrelilsja soon will.be two years that.DAT ago as 'It will soon be two years since he shot himself' (Vitte, 1911).

 Lit.: 'It will soon be two years ago to that, as he...'
 - \Rightarrow In all other cases *nazad* has the reference point that coincides with the "now" of the speaker! (cf. English *ago* and [Boguslavskij 1996: 76]).

The frequency of temporal *nazad* structures:

	170	1700-1800		1800-1900)-2000
	N	per mln	N	per mln	N	per mln
god (tomu) nazad	32	12,0	1389	51,8	15244	113,4
'(X) year(s)' ago						
mesjac (tomu) nazad	0	0	258	9,6	1740	12,9
'(X) month(s)' ago						
chas(ov) (tomu) nazad	0	0	138	5,1	892	6,6
'(X) hour(s)' ago						
minut(u) (tomu) nazad	0	0	69	2,6	750	5,6
'(X) minute(s)' ago						

Contemporary Russian: positional freedom:

- ➤ In the nowadays Russian the temporal *X-time* (*tomu*) *nazad* structures can be found **in any position** within the sentence, it is usually not separated by intonation breaks (in the speech) or commas (in the writing):
- (15) Ona vsego **god nazad** vernulas' iz kapital'nogo remonta. it only **year ago** came.back from 'It [= missile] underwent a complete overhaul only one year ago (Abarinov, 2003).

Contemporary Russian: the fate of *tomu*:

- > Once the bi-partite structure is released, *tomu* is rendered **functionless**.
- (16) ejo sestra uchilas dva goda (tomu) nazad v shkole. studied two years (that.DAT) ago in school. 'Two years ago her sister was studying in the school'.

➤ Its use within *nazad*-adverbials reduces over time. Frequency per mln.:

	1700	-1900	1900-		
	N per mln		N	per mln	
let tomu nazad '(N) years ago'	543	18,7	1448	10,8	
let nazad '(N) years ago'	296	10,2	7668	57,0	

Summary:

- ➤ a very subtle semantic shift (fixation of the speaker-oriented reference point);
- > gradual loss of substance (synchronically optional *tomu*);
- > increase in frequency;
- > separate clause-like structure > clause-internal temporal modifier;
- ➤ nazad: predicatively used adverbial > **post**position

V. Case study 3: uzhe ... kak 'It is already X-time since / that...'

Early two-sentence structure:

(17) [A on, uxodja, prigrozil mne...]_i, — da tol'ko [tomu]_i uzhe pjat' let proshlo, i nichego. that.DAT already five years passed

'And he threatened me when leaving that...; but five years have passed, and nothing happened' (Koshko, 1928).

Lit: '... but five years passed to that, and ...'

Early two-clause structure (subordinator *kak*, anaphoric or cataphoric):

[Tomu]_i uzhe neskol'ko let, [kak ja zaexal v selo P.]_i that.DAT already several years

'Several years have passed since I went to the village of P.' (Fonvizin, 1788).

Lit.: 'It is already several years to that, as I'

Diachronic trend:

- These two-partite structures decline towards the first half of the 20th century (the last reliable example comes from 1928).
- Anaphoric / cataphoric *tomu* is released (as in scenario IV), **obligatorily** in this case.

Word order change as the indicator of development towards monoclausality:

- > One of the earliest examples of use within the clause:
- (19) On uzhe poltora goda kak sidit voevodoj v Dubne he already 1,5 years as

'He is the governor of the province of Dubna for already one year and a half' (Gogol, 1835-1841).

Lit.: 'He already 1,5 years as governs in Dubna'.

Nowadays, these adverbials are freely used in any position in the clause.

Tense-aspect forms of the predicate:

- A. Present Tense of the imperfective verbs (as in (19)) + non-verbal predicates;
- B. Past Tense of the perfective verbs (as in (18)).

A. *uzhe* X-time-ACC *kak* V.IPFV-PRS = 'has/have been V-ing for already X-time' Compare:

(20) On uzhe nedel-ju rabotaet v biblioteke.

He already week-ACC works

'He is working in the library for already a week'.

- Accusative (not Nominative!) NPs one of basic adverbials of duration (thus, in imperfective contexts) in Russian, independently of *kak*;
- *uzhe* is related to speaker's expectations [Bogulslavskij 1996: 237 ff.] & retrospectivity [Pertcov 2003].

- B. *uzhe* X-time-ACC *kak* V.PFV-PST = 'it is already X-time since V happened' *Kak* is obligatory, cf. (18) and:
- *uzhe neskol'ko let ja zaexal v selo P.

 already several years I went to village P.

 Lit. *'I went to the village P. for already several years'

Case-marking of time-span Ns in *uzhe* X-time *kak* constructions:

- Non-feminine and plural feminine inanimate nouns: Accusative = Nominative.
- Case marking of **feminine** *nedelja* 'week': Nominative (22) or Accusative (23):
- (22) Uzhe nedelj-a kak nachalas' kampanija already week-NOM as

 'It is already a week since the campaign started' (Tolstoy 1867-1869).
- (23) Vsex prilichnyx ljudej uzhe nedel-ju kak arestovali. all decent people.ACC already week-ACC as arrested 'It is already a week since all the decent people were arrested' (Voronel', 1975-2003).

	NOM: uzhe nedelj a kak	ACC: uzhe nedelj u kak
1813-1930	13	1
1930-1990	6	6
1990-PRESENT	4	17

[⇒] Case-pattern is acquired through **analogy** in **both** types of temporal-aspectual structures!

Summary:

- ➤ Most structural properties are lost (incl. loss of substance):
 - *Tomu* (lost entirely);
 - Bi-clausal structure, incl. word order pattern (lost entirely);
 - Case-marking of the time-span NP (levelled due to analogy);
 - *Uzhe* is not obligatory (though frequent):

	1990-2000
uzhe goda kak 'already X years'	32
goda kak 'for X years' (no uzhe)	19

- > Kak ("subordinator") seems to be the only remnant of the original structure.
 - However, it does not signal any syntactic boundary,
 - nor does it seem to express any particular piece of meaning.
 - **Exaptation**: Thus, *kak* loses its status of a conjunction and becomes a relatively free marker of the construction as a whole that no longer plays a role of a linking element.
 - **Loosening** of its linear position in modern varieties of Russian: *uzhe* X-time *kak* V (original), but also *uzhe kak* X-time V (24), V *uzhe* X-time *kak* (25), X-time *uzhe* V *kak*, V *uzhe kak* X-time etc.
- (24) Tamozhni jantarnogo kraja **uzhe kak god** lixoradit. **already as year** cause.fever

'The amber region's customs are fevering for already a year' (Mazepov, 2004).

(25) ... usilenno reklamiruemyj uzhe polgoda kak. already half.year as

"... strenuously advertised for already half a year".

VI. Discussion

Conclusion 1 (methodological): An eulogy to microdiachrony!

Syntactic change in peripheral structures can be **very rapid**. However, they are hard to notice unless studying **large corpus data**. One **doesn't need deep diachronic coverage** in order to unearth the **mechanisms of syntactic change**.

		I. vo glave 'headed'	II. nazad 'ago'	III. uzhe X-ACC kak
(increase in frequency)		Yes	Yes	Yes
Rean- alysis	A change in constituent structure without immediate overt manifestation	Yes	Yes	Yes
	Unidirectionality (biclausality–to-monoclausality)	Yes	Yes	Yes
on	Loss of pragmatic significance	No	Yes	Yes
zati	Loss of substance	No	Yes (optional)	Yes
aliz	Lexicon-to-grammar drift	Yes	Yes (rather)	No
Grammaticalization	Loss of autonomy (exparadigmaticity)	Yes	No	No
Gram	Loss of syntactic freedom	No	No	INCREASE! (tigh-to-loose development)
	Semantic change (concrete-to-abstract drift etc.)	No	(almost) No	No

<u>Conclusion 2</u>: A **unitary** path of diachronic development might encompass processes that are typical of **both** grammaticalization and reanalysis.

Reanalysis and grammaticalization are not strictly counteropposed.

Question: Recall now two of Haspelmath's criteria:

Grammaticalization	Reanalysis
Gradual	Abrupt (either or)
Due to language use	due to language acquisition

To be honest, I don't know which is the answer in the cases analyzed. However, the hypothesis is that quantitative changes in use increase the probability of abrupt changes in acquisition.

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