

WestminsterResearch

http://www.westminster.ac.uk/westminsterresearch

From syntagmatic to paradigmatic spatial zeroes: the loss of the preposition se in inner Asia Minor Greek
Karatsareas, P. and Georgakopoulos, T.

This is an author's accepted manuscript of an article to be published in *STUF* – *Language Typology and Universals* in 2016. The final definitive version is will be available on the journal homepage at:

http://www.degruyter.com/view/j/stuf

© De Gruyter 2016. The Creative Commons licence CC BY-NC-ND shall apply for all Open Access content from this publisher. This means:

The name of the author/copyright owner must be mentioned in the manner requested by the author/copyright owner. The publication and its content may not be used in its Open Access format for commercial purposes. The publication and its content may not be edited, modified, or otherwise change.

The WestminsterResearch online digital archive at the University of Westminster aims to make the research output of the University available to a wider audience. Copyright and Moral Rights remain with the authors and/or copyright owners.

Whilst further distribution of specific materials from within this archive is forbidden, you may freely distribute the URL of WestminsterResearch: ((http://westminsterresearch.wmin.ac.uk/).

In case of abuse or copyright appearing without permission e-mail repository@westminster.ac.uk

From syntagmatic to paradigmatic spatial zeroes: the loss of the preposition *se* in inner Asia Minor Greek²

Abstract

We trace the diachronic development of the preposition *se* in inner Asia Minor Greek from its use to mark a range of spatial functions to its ultimate loss and replacement by zero. We propose that, before spreading to all syntactic and semantic contexts, zero marking was contextually-dependent on the presence/absence of a prenominal genitive modifying the head noun of Ground-encoding NPs and on the presence/absence of Region-encoding postpositions. We attribute these developments to an informational load relief strategy aimed at producing more economical utterances as well as to language contact with Turkish, which favoured structural convergence on the adpositional level between the two languages.

1. Introduction

Languages are known to mark spatial relations by both overt and non-overt elements. In Turkish, for example, location at a given Ground is encoded by the locative suffix -DA, motion towards a Ground by the dative suffix -(y)A, and motion from a Ground by the ablative suffix -DAn. In Egyptian Arabic, in contrast, only location at and motion from a Ground are overtly marked by the prepositions fi and min, respectively, as there is no overt element to mark motion towards a Ground. Ground-encoding NPs in this language appear bare, i.e. preposition-less, so that this specific spatial relation is encoded by zero (WOIDICH 2006).

¹ Petros Karatsareas undertook this joint research at the University of the West of England, Bristol, under the mentoring of Jeanette Sakel and with the financial support of the British Academy through a Postdoctoral Fellowship. Thanasis Georgakopoulos was supported by the Excellence Cluster Topoi, Berlin

² Early versions of this work were presented at the 6th International Conference of Modern Greek Dialects and Linguistic Theory that was held at the University of Patras in 25–28 September 2014, and at the 36th Annual Meeting of the Department of Linguistics of the Aristotle University of Thessaloniki held in 24–25 April 2015. We would like to thank the audiences of both meetings for their helpful comments and insightful questions. Thanks are also due to EVI ARGYRIOU, CHARALAMBOS CHRISTODOULOU, KATERINA FRAGKOPOULOU, SANDER LESTRADE, IO MANOLESSOU, NIKOS PANTELIDIS, LAMEEN SOUAG and DAVID WILLIS for commenting on drafts of the article and for helping us to obtain valuable linguistic and bibliographical material. We are indebted to the editors of this special issue, CONCHA MARIA HÖFLER, STEFANIE BÖHM, KONSTANZE JUNGBLUT and STAVROS SKOPETEAS, for their comments and for including our article in their collection and, last but not least, to the external reviewer for his/her most recommendations for improvement. All errors are, of course, our own.

Work by LESTRADE (2010, 2013) and STOLZ et al. (2014) has recently drawn attention to the fact that the phenomenon of zero marking of spatial relations is widely found crosslinguistically. STOLZ et al. identify two types of spatial zeroes, syntagmatic and paradigmatic, which they define thus:

[a] syntagmatic zero contrast[s] with an overt alternative expression with virtually the same meaning. It is the result of a real-time pragmatic choice to leave out the overt expression of some communicated spatial relation [...]. A paradigmatic zero, on the other hand, is dependent on the paradigmatic contrast with other, overt markers. It is an empty but meaningful slot in a paradigm of spatial markers (2014: 38).

According to this definition, the zero used in Egyptian Arabic to mark motion towards a Ground is an example of a paradigmatic zero. An example of a syntagmatic zero is provided by Maltese. The Maltese prepositional inventory includes the prepositions fi, which is used to mark location at and motion towards a Ground, and minn, which marks motion from a Ground. However, while minn obligatorily accompanies every NP whose referent expresses the source of a motion, fi can be optionally omitted from NPs expressing location or motion towards a Ground. Based on the analysis of a database consisting of 116 languages, STOLZ et al. argue that, in such cases, the distribution of overt and zero markers is conditioned by a variety of factors pertaining to the properties of the different expressions that make up motion event encoding utterances, most notably the type of spatial relation encoded (location, motion towards, motion from), the semantics of the Ground and the syntax of motion verbs. In other words, the optional omission of overt spatial markers, which gives rise to syntagmatic zeroes, is contextually-conditioned.

LESTRADE (2010, 2013) and STOLZ et al. (2014) account for the (syntagmatic or paradigmatic) omission of spatial markers in terms of economy and predictability. They argue that the use of zero markers is driven by the speakers' preference to produce economical utterances while at the same time ensuring communicative success. In utterances in which the spatial relation between a Figure and a Ground (see Section 2 for terminology) is predictable in that it can be recovered from the linguistic context, from world knowledge or a combination of the two, the overt marker that would otherwise be used to express this relation may seem redundant and be omitted by speakers in an attempt to save the effort required for its pronunciation. In the case of spatial relations that are not intra- or extralinguistically predictable and for which recoverability is for that reason impossible, overt markers are retained as their omission would lead to communicative failure.

STOLZ et al. (2014: 45) hypothesise that paradigmatic zeroes develop from syntagmatic zeroes. If a language develops zero marking for a given spatial relation at a point in time, this will most probably first affect a small set of structural, semantic and/or pragmatic contexts. At later stages, zero marking will extend to increasingly more contexts until it becomes the only means available for the encoding of the spatial relation at hand. From this perspective, the diachronic emergence of paradigmatic zeroes in a language that did not originally display them can be reasonably posited to have been preceded by a stage characterised by

the presence of syntagmatic zeroes. STOLZ et al.'s investigation, however, is synchronic and does not include any cases exemplifying this diachronic trajectory.

In this article, we examine exactly such a case-in-point, namely, the development of a paradigmatic spatial zero from a syntagmatic spatial zero in the Modern Greek dialects of inner Asia Minor. By inner Asia Minor Greek, we refer to the dialect group comprising three related dialects that were originally spoken by Greek Orthodox speaker communities in the Cappadocian plateau in what today is south-eastern Turkey: (a) Cappadocian, a dialect cluster formed by the varieties of twenty villages scattered in the rural area between the towns of Nevşehir, Kayseri and Niğde; (b) Pharasiot, the dialect of Phárasa (present-day Çamlıca) and another five surrounding villages found between the Ala Dağ and Antitaurus mountains; and, (c) Silliot, the dialect of Silli (present-day Sille), a village near the town of Konya. All three were spoken in their respective native locations until the early 1920s, when Greece and Turkey exchanged populations in accordance with the Treaty of Lausanne. Today, only a few Cappadocian and Pharasiot varieties survive in Greece, mainly in the north of the country, but are all severely endangered.

Compared to other dialects of Modern Greek, the inner Asia Minor Greek group exhibits an impressive number of grammatical innovations, which came about as a result of the centuries-long isolation and intense language contact with Turkish in which it developed (see JANSE 2002; KARATSAREAS 2011a, 2013 for an overview). In some cases, the innovations are so pervasive that one could argue that Cappadocian, Pharasiot and, to a lesser extent, Silliot belong to a completely different typological group to the one in which all other Modern Greek dialects are found and, crucially, to one that shares many features with Turkish. Suffice it to mention here the demise of grammatical gender distinctions, the development of differential case marking and the prevalence of head-final order for the constituents of NPs – a set of Turkish-like traits that Cappadocian and Pharasiot display.

We specifically focus on the diachronic development of the preposition se, a polysemous marker that is generally used in Greek to encode a wide range of spatial functions, among them location at and motion towards a Ground. We show how, in the inner Asia Minor Greek dialects, se initially came to be used in variation with a spatial zero of the syntagmatic type. At a later stage, the use of zero superseded that of SE resulting into a paradigmatic zero and the loss of se altogether from the prepositional inventory of the variety of Cappadocian that was spoken in the village of Ulaghátsh. We discuss the language-internal factors and mechanisms that brought about these changes and also highlight the role that language contact with Turkish and also possibly Armenian played in the process.

Our investigation is therefore diachronic, though it is faced with one important methodological problem, namely the lack of texts or any other type of documentation produced in any of the inner Asia Minor Greek dialects before the end of the 19th century, at which time many of the innovations defining the dialect group had already been completed (see MANOLESSOU 2015). A solution to this is presented by the fact that different dialects within the group are found at different developmental stages with respect to specific innovations—including, crucially, the development of se—, some being more conservative, others more innovative. This allows us to treat the synchronic stages in which the different dialects are

found as different historical stages in the course of change and, on that basis, to subsequently reconstruct the causes, factors and processes that led to grammatical innovation.

The advantages of the diatopy-as-diachrony method for the investigation of change in Asia Minor Greek were first outlined by DAWKINS (1940: 12), and the method was later used by KARATSAREAS (2009, 2011a, 2011b, 2013, 2014) to provide diachronic accounts of such developments as the resemanticisation and loss of grammatical gender distinctions, the development of neuter heteroclisis and agglutinative-like inflection in nouns and the emergence of phonologically empty forms of the definite article.³ In some of these cases as, for example, in the resemanticisation of the gender system in Pontic and Crimeoazovian Greek (KARATSAREAS 2009, 2011a, 2014), there is independent evidence to suggest that the reconstructed stages are closely related in a way such that one can be safely assumed to have historically preceded the other. In other cases, though, as in the development of heteroclisis (KARATSAREAS 2011a, 2011b), this is not possible. Rather, what the individual reconstructed stages allow us to do is to shed light on the linguistic factors that were involved in change and helped the promotion of innovation evident in the most advanced varieties. They, however, cannot be safely taken to represent successive synchronies. The loss of se that we deal with here belongs to this latter type.

The article is structured as follows: Section 2 lays out the theoretical premises on which our study is based in reference to the semantic and syntactic structure of motion event encoding utterances. In Section 3, we describe the semantics and syntax of *se* in the inner Asia Minor Greek varieties that preserve it in their prepositional paradigm, thus illustrating the pre-innovation stage in its loss (Stage I dialects). In Section 4, we turn to Phloïtá Cappadocian and Silliot, the two dialects in which the zero marker first makes its appearance (Stage II dialects). Applying the diatopy-as-diachrony method, we analyse the distribution of *se* and zero and formulate a proposal as to the syntactic and semantic contexts that favoured the optional omission of *se* and offer a functional explanation drawing on LESTRADE's (2010, 2013) and STOLZ et al.'s (2014) recent proposals. In Section 5, we examine Ulaghátsh Cappadocian, which has lost *se* altogether, focusing on the ramifications of this loss for the typological profile of this variety (Stage III dialect). Finally, in Section 6, we summarise our main findings and point towards possible avenues for future research.

2. Theoretical premises

The domain of localisation typically contains two main participants: (a) an entity perceived as being localised, and (b) the place with respect to which the localised entity is located. Following TALMY (1985, 2000), we use the term Figure for the

.

³ This method has been used in the diachronic study of dialectal innovations at least since BLOOMFIELD (1933), who applied it to the distribution of the vowels occurring in the forms corresponding to 'mouse' and 'house' in the Dutch dialects (BLOOMFIELD 1933: 328; see the chapter entitled *Dialect geography* in BLOOMFIELD, 1933: 321–345; also ANDERSEN 1988, KÖNIG et al. 2015 [1978]). For more recent applications of the method, see CAVIRANI (2015) and WEIB (2012).

former object and the term Ground for the latter object, (cf. LANGACKER 2008: 70). The spatial relation between these two components can be either static or dynamic. In the former case, the relation is described by the term Place. In the latter case, the Figure can move either toward the Ground (allative spatial relation: GOAL or TO path), away from the Ground (ablative spatial relation: SOURCE or FROM path) or through the Ground (perlative spatial relation: PATH or VIA path; see JACKENDOFF 1983, 1990; also FILLMORE 1971). Examples (1) and (2) describe a static and a dynamic relation, respectively.⁴

- (1) Phloïtá Cappadocian [DAWKINS 1916: 410] cimíθane so skóλο sleep:PST.3PL LOC.DEF.SG.ACC school:SG.ACC 'They slept at the school.'
- (2) Delmesó Cappadocian [DAWKINS 1916: 312] irten eci son tópo come:PST.3SG DEM.DIST LOC.DEF.M.SG.ACC place(M):SG.ACC 'He came to that place.'

In these examples, the event is categorised as either static or dynamic on the basis of the type of spatial verbs used ($cimi\theta$ ane vs. irten). The prepositional element se, found as part of the amalgam so (see below), does not distinguish between motion and non-motion, adhering to a pattern that has characterised Greek since the Post-Classical period (SKOPETEAS 2008).

Another aspect that plays an important role in the act of locating an entity in space is the spatial sector in which the Figure may be found. We will use the term (spatial) Region for this, though see TALMY (2000) and STOLZ et al. (2014) for alternatives. LEHMANN defines Region as "an aspect of the topological structure associated with a physical object by virtue of its being three-dimentional and occupying a position in three-dimensional space" (2012: 484). This may refer to such notions as the front space, the top space, the inner space or the vicinity space.

With these considerations in mind, consider the following example illustrating all of the above basic components of a spatial situation. Note that in cases such as (3), the Figure is encoded by the spatial verb by means of the personal inflectional marker. Here this is done by the first person singular suffix -a, which shows that the speaker is the Figure at hand.

_

⁴ Greek data in the article are given in broad phonetic transcription with the acute accent used to indicate stress. Turkish data are given in standard Turkish orthography. All data are glossed in accordance with the Leipzig Glossing Rules (see the abbreviations list at the end of the article). Note that *se* is conventionally glossed LOC throughout the article (and not ALL or DAT, depending on the example) following standard practice for highly grammaticalised prepositions of this type. Note also that most Cappadocian varieties have lost the tripartite gender distinction into masculine, feminine and neuter nominals that generally characterises Greek. Gender values are therefore only given in the glossing of examples drawn from the Cappadocian varieties that preserve the distinction—albeit residually—as well as from other Modern Greek dialects, in which it shows no signs of decline.

(3) Delmesó Cappadocian [DAWKINS 1916: 308] anéva meiván apáno ascend:PST.1SG LOC.DEF.N.SG.ACC tree(N):SG.ACC **SUP Figure** Dynamic (Goal) Ground **Region:** Spatial V/ **SUPERIOR** Dynamic (Goal) **Region: SUPERIOR**

Observe that the relation between form and meaning is not one-to-one but one-to-many: the Goal relation is expressed by both the spatial verb *anéva* and the preposition *se*, while the information relating to Region is encoded by both the verb and the spatial postposition *apáno*. This type of asymmetry has been described by SINHA & KUTEVA (1995) with the term distribution. In their terms, spatial relational meaning is said to be distributed over various elements of the motion event encoding utterance, both closed class and open class items. The opposite situation whereby one formal element encodes more than one meaning

Against this backdrop, we may now turn to our investigation of the diachronic development of *se* in the inner Asia Minor Greek dialects.

3. Stage I dialects: the pre-innovation stage

has been termed conflation by TALMY (1972).

'I climbed up the fruit tree.'

This group includes all Cappadocian varieties, except the ones that were spoken in Phloïtá and Ulaghátsh (for which see below), and Pharasiot. These dialects continue the state of affairs of Late Medieval Greek as far as the semantics and syntax of *se* are concerned (BORTONE 2010; KARATSAREAS 2013) and can therefore be considered to represent the pre-innovation stage in its diachronic loss. At this stage, *se* is a full member of the prepositional paradigm, which additionally includes six other prepositions as shown in Table 1.

Preposition	Attested forms	Main meaning(s)	Gloss
se	se, s, z	ALLATIVE, LOCATIVE	'to, at'
apó	apó, apú, ap, ab, apé,	ABLATIVE	'from'
	pe, as, az, po		
ja	ja	PURPOSIVE	'for'
me(tá)	met, me, mi, m, mo,	COMITATIVE,	'with'
	móde	INSTRUMENTIVE	
xorís	xorís, xóris, xors	EXCLUSIVE	'without'
ðéxus	ðéxus	EXCLUSIVE	'without'
OS	os, us, oz, sos	TERMINATIVE	'up to, until'
tfax	tſax, tſáus	TERMINATIVE	'up to, until'

Table 1: The prepositional paradigm of Stage I varieties

Having undergone a long series of developments in previous stages in the history of Greek (see GEORGAKOPOULOS 2011, 2014 and references therein for details), se

is found here as a highly grammaticalised, polysemous element that encodes a wide range of spatial functions expressing both dynamic (Goal) and static (Place) relations. Like all elements in Table 1, it is always preposed to its complements, which are uniformly marked by the accusative, and is attested in two types of adpositional phrases: (a) Prepositional Phrases (PrepPs) of the type [$se + NP_{ACC}$] (4); and, (b) Circumpositional Phrases (CircumPs) of the type [$se + NP_{ACC}$] + POSTPOSITION] (5). The postpositional elements in CircumPs encode Region; see Table 2 for an inventory. Note that se fuses with the the definite article resulting in forms such as so (se + to) and son (se + ton).

(4) PrepP

a. Delmesó Cappadocian [DAWKINS 1916: 304] cínde [sofilán son lie:PRS.3PL LOC.DEF.N.SG.ACC such LOC.DEF.M.SG.ACC tópo] place(M):SG.ACC 'They are found in such and such a place.' b. Pharasiot [DAWKINS 1916: 484] t/e [so píje spílo] go:PST.3SG and LOC.DEF.M.SG.ACC cave(M):SG.ACC 'And he went to the cave.'

(5) CircumP

a. Araván Cappadocian [DAWKINS 1916: 334] batírsen=do [soleró mésa] dip:PST.3SG=3SG.ACC LOC.DEF.SG.ACC water:SG.ACC 'She dipped her into the water.' b. Ghúrzono Cappadocian [DAWKINS 1916: 342] stáji [so tirpí ombró] stand:PST.3SG LOC.DEF.SG.ACC hole:SG.ACC ANT

'She stood in front of the hole.'

Postposition	Attested forms	Spatial region	Gloss
(a/e)páno	apáno, abáno, apánu, abánu,	SUPERIOR	'on top of, above'
	apán, epáno, pánu, bánu		
(apo)káto	apokáto, apkáto, aptágo,	INFERIOR	'under'
	pokáto, pokátu, káto, kádo,		
	kátu, kat		
(e/o)mbrós	embró, embrón, ombró, bro,	ANTERIOR	'in front of'
	bron, mbro, mbron, ambrós		
(o)píso	opíso, opísu, obísu, píso,	POSTERIOR	'behind'
	písu, bísu, apopíso, apapíso,		
_	apísu, popísu		
apéso	apéso, apés, béso, pésu	INTERIOR	'inside'
mésa	mésa, emésa, méfi, mef	INTERIOR	'inside'

ókso	ókso, óksu	EXTERIOR	'outside'
kondá	kondá, kundá	PROXIMATE	'near'
anámesa	anámsa	MEDIAL	'between'
péra	péra	ULTERIOR	'beyond'
dáma	déma	COMITATIVE	'together'
ístera	ístera, ísteris, istér, isterjás,	TEMPORAL	'after'
	isterjanás, stéru	POSTESSIVE	

Table 2: The postpositions of inner Asia Minor Greek

Our analysis of the combinations of *se* with the postpositions in Table 2 as forming single adpositional units follows KARATSAREAS (forthcoming b) and is based on the fact that both elements must obligatorily be used in tandem for the encoding of spatial region. For example, in (5), the only grammatical means to express the spatial relations 'into the water' and 'in front of the whole' is to combine *mésa* and *ombró* with *se* to form the syntagms *s(e)...mésa* and *s(e)...mésa* and *s(e)...mésa*. Crucially, Region cannot be encoded solely by the combination of postpositions with accusative-marked NPs in these varieties (*to leró mésa, *to tirpí ombró). Of course, *se* may well form simple PrepPs such as *so leró* and *so tirpí*, but these do not encode the interior and superior, respectively. Rather, they express the more general relations of goal and locative; cf. DAVID's (2014: 329–330) criteria for circumpositionhood in Pashto.

In Cappadocian, in addition to the spatial functions mentioned, *se* may also encode two social functions (in the sense of Georgakopoulos 2011, 2014), namely the Recipient and the Addressee (6).

```
(6)
      Ferték Cappadocian
                                   [DAWKINS 1916: 328]
      a. édeke
                                  paráija
                                                   [so
        give:PST.3SG DEF.PL.ACC money:PL.ACC
                                                    LOC.DEF.SG.ACC
        mána=t]
        mother:SG.ACC=3SG.GEN
        'He gave the money to his mother.'
      b. ce
                          [so
                                             pedí=t]...
        and
              say:PST.3SG LOC.DEF.SG.ACC
                                             boy:SG.ACC=3SG.GEN
        'And she said to her son...'
```

However, this use is marginal and may be due to influence from other Greek varieties exerted through schooling. The standard means of expression is the bare accusative (to mána=t, to pedi=t), following the transfer of these functions from the dative to the accusative in the Late Medieval period (HUMBERT 1930; TRAPP 1965; LENDARI & MANOLESSOU 2003; MANOLESSOU & BEIS 2006; GEORGAKOPOULOS 2011, 2014). In Pharasiot, the bare accusative is the only grammatical option for the encoding of the Recipient and the Addressee (ANASTASIADIS 1976: 89).

4. Stage II dialects: the emergence of the innovation

This group includes the variety of Cappadocian that was spoken in the village of Phloïtá, and Silliot. In these dialects, *se* is preserved as a member of the prepositional paradigm and is still used to form PrepPs and CircumPs of the type introduced in (4) and (5) for the encoding of the same spatial relations as the one seen above. Crucially, however, it may be optionally omitted in contexts in which its use is obligatory in conservative dialects (KOSTAKIS 1968: 105). Its omission yields two innovative types of spatial expression: (a) bare, accusative-marked NPs of the type [NP_{ACC}] (7); and, (b) Postpositional Phrases (PostPs) of the type [NP_{ACC} + POSTPOSITION] (8).

(7) bare, accusative-marked NPs

'He comes to his wife's side.'

- a. Phloïtá Cappadocian [DAWKINS 1916: 416] ben [koritſçú to spit] enter:PRS.3SG girl:SG.GEN DEF.SG.ACC house:SG.ACC 'He goes into the girl's house.'
- b. Silliot [KOSTAKIS 1968: 118]

 kátsam tris mínes [tfin trípoli]

 stay.PST.1PL three.M month(M):PL.ACC DEF.F.SG.ACC PN(F).SG.ACC

 'We stayed in Tripoli for three months.'

(8) PostPs

a. Phloïtá Cappadocian [DAWKINS 1916: 414] ístera sémen na delastí afterwards enter:PST.3SG COMP walk about:PNP.3SG xorió mésa] village:SG.ACC DEF.SG.ACC INT 'Afterwards he went into the village to walk.' b. Silliot [DAWKINS 1916: 298] érsiti [tfin enékan=tu kondá] come:PRS.3SG DEF.F.SG.ACC wife(F):SG.ACC=3SG.GEN PROX

Phloïtá Cappadocian and Silliot, therefore, display variation between *se* and zero and represent an intermediate stage in the loss of the preposition. From a historical linguistics perspective, the two dialects exhibit what HOPPER (1991: 22) has termed layering, namely, the coexistence on a synchronic level of old and new means for the expression of the same function. According to the diatopy-as-diachrony method that we adopt here, an investigation of the factors that condition the distribution of the two variants, old and new, can shed light on the diachronic trajectory *se* followed before its complete demise as evident in Ulaghátsh Cappadocian.

To that end, we looked at the distribution of *se* and zero in one Phloïtá Cappadocian corpus and two Silliot corpora compiled exclusively from published sources. The Phloïtá corpus consists of eight short stories recorded by Richard M. Dawkins in 1909 and 1911 and is published in DAWKINS (1916:410–441). The first, chronologically earlier Silliot corpus consists of seven short stories also

recorded by Dawkins in 1909 and is published in DAWKINS (1916:284–304). This will be referred to as the Sílli (D) corpus. The second, chronologically later Silliot corpus consists of nine short stories recorded by Thanasis Kostakis and Georgios Mavrochalyvidis in Greece some years after the relocation of the Silliot speakers and is published in KOSTAKIS (1968:116–130). This will be referred to as the Sílli (K) corpus. The approximate sizes of the three corpora are given in Table 3. As can be seen in the table, the corpora are rather small. They are, however, exhaustive in including all Phloïtá Cappadocian and Silliot texts that have been published to date.

Corpus	Size in words (approximation)
Phloïtá	5,300
Sílli (D)	2,850
Sílli (K)	2,310

Table 3: The size of the Phloïtá, Sílli (D) and Sílli (K) corpora

Our analysis included all clauses containing a syntactic phrase in which *se* encodes a spatial function. This encompasses both phrases that appear as complements to spatial verbs and phrases that function as spatial adjuncts to other types of verbs. Phrases encoding the Recipient or the Addressee functions were excluded from our study because, strictly speaking, we are not in a position to say with certainty whether the use of bare, accusative-marked NPs in such contexts is the diachronic result of the historical transfer of the dative (see above) or to the omission of *se*, which is a much more recent development. We also excluded all instances of pseudo-incorporation found in our corpora. We follow GEHRKE & LEKAKOU (2013) in using pseudo-incorporation to refer to constructions such as the ones shown in (9), in which a Goal- or Place-encoding NP appears bare, that is, without being introduced by *se* and also without a(n) (in)definite article (see also IOANNIDOU & DEN DIKKEN 2009 and TERZI 2010 for alternative terminology and approaches to the phenomenon).

(9) Phloïtá Cappadocian [DAWKINS 1916: 434]

epsés spit=mas irten saráfos

last_night house:SG.ACC=1PL.GEN come:PST.3SG moneychanger:SG.NOM

'Last night, a moneychanger came to our house.'

Despite superficial similarities, pseudo-incorporating constructions and se-less NPs of the type exemplified in (7)–(8) constitute distinct phenomena as evidenced by the fact that the omission of se in Phloïtá and Sílli is not subject to the restrictions that GEHRKE & LEKAKOU (2013) identify for pseudo-incorporation. Specifically, se can be omitted preceding nouns denoting both locations and parts thereof; it can be omitted in both complements and adjuncts; Goal- or Place-encoding NPs can introduce discourse referents and be modified by adjectives. Most importantly, the omission of se in the two Asia Minor Greek dialects is not contingent upon the omission of the article. On the contrary, in pseudo-incorporation, se can only be omitted if the determiner is also omitted. In this light,

we consider pseudo-incorporating constructions to be qualitatively different from *se*-less NPs of the type under investigation here.

Overall, 211 token clauses were gathered from the Phloïtá corpus, 58 clauses from the Sílli (D) corpus and 62 clauses from the Sílli (K) corpus. The distribution of se and zero in the three corpora is presented in Table 4. Note that the counts in the table contain the sum of the occurrences of both constructions under investigation, [NP_{ACC}] and [NP_{ACC} + POSTPOSITION].

	Phloïtá		Sílli (D)		Sílli (K)	
	n	%	n	%	n	%
se	194	91.9	17	29.3	7	11.3
zero	17	8.1	41	70.7	55	88.7
Total	211	100	58	100	62	100

Table 4: The frequency distribution of se and zero in the three corpora

The degree of variation in the use of se and zero differs considerably between the two dialects. There is also a statistically significant difference between the two Silliot corpora as, in the Silli (D) corpus, the use of se is significantly more frequent than in the Silli (K) corpus: χ^2 (1) = 3.97, p <.05. We interpret this difference as an effect of the fact that the Silli (D) data were collected in the early 1910s while the Silli (K) data in the late 1950s and early 1960s. In our view, what we are dealing with here is an illustration of change that naturally occurred in the dialect in the course of the fifty year interval that separates the two corpora.

In Phloïtá, the use of se predominates. The frequency with which zero appears is rather low but is certainly not negligible. Rather, it is comparable with the frequency with which fi is dropped in two Maltese corpora analysed by STOLZ et al. (2014). This picture changes in the Sílli (D) corpus, in which zero outnumbers SE by a ratio of 2.4:1, and is completely reversed in the Sílli (K) corpus. Phloïtá Cappadocian can therefore be taken as capturing an incipient stage in the loss of se and Silliot a more advanced stage that precedes its complete demise. Despite their differences, all three corpora represent stages in which the use of zero for the encoding of spatial relations is syntagmatic in that it is in complementary distribution with se and no other means are used for the encoding of the spatial relations at hand.

In contrast to STOLZ et al.'s (2014) findings, the distinction between Goal and Place does not play a role in the frequency distribution of the two variants in any of our corpora. The statistical analysis of the token clauses reveals that zero occurs equally frequently in Goal- and Place-encoding utterances and that the frequency distribution of *se* and zero within the two different utterance types is comparable to their overall distribution in the respective corpora; see Table 5. Chi-square tests of independence (Fisher's exact test) were performed to examine the association between the Goal *vs* Place distinction and the use of *se* or zero. The association between these variables was not significant in any of our corpora: in Phloïtá, χ^2 (1) = .219, *ns*; in Sílli (D), χ^2 (1) = .847, *ns*; and, in Sílli (K), χ^2 (1) = 1.549, *ns*.

	Phloïtá		Sílli (D)			Sílli (K)						
	G	oal	P	lace	G	oal	P	lace	G	oal	P	lace
	n	%	n	%	n	%	n	%	n	%	n	%
se	138	91.4	56	93.3	14	32.6	3	20.0	6	15.0	1	4.5
zero	13	8.6	4	6.7	29	67.4	12	80.0	34	85.0	21	95.5
Total	151	100	60	100	43	100	15	100	40	100	22	100

Table 5: The frequency distribution of *se* and zero in Goal- and Place-encoding utterances

There are, however, two other factors that do favour the omission of *se* and the concomitant use of zero: (a) the presence/absence of a prenominal genitive modifying the head noun of the Ground-encoding NP; and, (b) the presence/absence within the motion event utterance of a Region-encoding postposition.

The effect of the former is evident in Phloïtá Cappadocian. Chi-square tests of independence were again performed to examine the association between the presence/absence of a prenominal genitive and the use of se or zero. The association between these variables was significant: $\chi^2(1) = 91.3$, p < .001 (see the results in Table 6). In particular, if a prenominal genitive modifies the head noun of the Ground-encoding NP, the odds of dropping se and using zero are 76.92 times higher than if no prenominal genitive modifes the head noun. This is exemplified in (10): zero is used to mark the allative function with to spit, which is modified by devref u, while se marks the same function with (t)o tece, which is not modified by a genitive NP.

	Without pren	ominal genitive	With prenominal genitive		
	n	%	n	%	
se	188	97.4	6	33.3	
zero	5	2.6	12	66.7	
Total	193	100	18	100	

Table 6: The frequency distribution of *se* and zero with respect to the presence/absence of a prenominal genitive in Phloïtá

(10)	Phloï	tá Cappadocian	[DAW	KINS 1916: 416	5]
	ce	ben	[devreſú	to	spit],
	and	enter:PRS.3SG	dervish:SG.GEN	DEF.SG.ACC	house:SG.ACC
	[so	te	ecé]		
	LOC.	DEF.SG.ACC c	onvent:SG.ACC		
	'And	he goes into the	dervish's house, 1	to the convent.'	

The effect of the second factor is found in the more advanced Sílli (D) corpus. The association between the presence/absence of a Region-encoding postposition and the use of se or zero was significant: χ^2 (1) = 6.37, p < .05 (see the results in Table 7). In particular, if a postposition is present in the motion event encoding utterance, the odds of dropping se and using zero are 10.25 times higher than if no postposition is present. Compare, in that connection, the two utterances in (11): in

(11a), se is preserved to mark Goal in the absence of a Region-encoding postposition; in contrast, in (11b), in which apésu specifies the interior Region, se is omitted and the Goal function is marked by zero. Note that there is no association between the presence/absence of a postposition and the semantics of the utterance in terms of the Goal versus Place distinction. Se is omitted 12 times in Goal contexts and 4 times in Place contexts. A similar distribution is found then no postposition is present in the motion-event encoding utterance: 17 omissions in Goal contexts, 8 omissions in Place contexts.

	Without	postposition	With postposition		
	n	%	n	%	
se	16	39	1	5.9	
zero	25	61	16	94.1	
Total	41	100	17	100	

Table 7: The frequency distribution of *se* and zero with respect to the presence or absence of a Region-encoding postposition in Silli (D)

(11)	Silliot a. <i>mpa</i>	iméra	[DAWKINS 1916: 286, <i>mána=tus</i>	300]
	,		mother(F):SG.NOM=	2DI N.CEN
	` '	•	` '	JFL.N.GEN
	aftá	ta	tékna	
	DEM.PROX.N.P	L.ACC DEF.N.J	PL.ACC child(N):PL.A	.CC
	vémbi=ta	[st'	amb	éλa]
	send:PRS.3SG=	3PL.N.ACC LOC	.DEF.N.PL.ACC vine	yard(N):PL.ACC
	'One day, their	r mother sends th	e children to the viney	ard.'
	b. <i>kónis=ta</i>	[tfin	kúpa	apésu]
	*		CC $cup(F):SG.ACC$	INT
	ci pçén:u=	:ta		
	and drink:PF	RS.1SG=OBJ		
	'Pour it (i.e., th	ne water) into the	cup and I will drink it	t.'

Two additional chi-square tests (Fisher's exact test) were subsequently performed to examine (a) the association between the presence/absence of a Region-encoding postposition and the use of *se* or zero in Phloïtá, and (b) the association between the presence/absence of a prenominal genitive and the use of *se* or zero in Sílli (D) in order to establish whether the two factors are active in both dialects or whether each of them has an effect in only one dialect. The results of both tests were non-significant: (a) χ^2 (1) = 1.0052, *ns*; (b) χ^2 (1) = 3.2134, *ns*; see Tables 8 and 9.

	Without po	ostposition	With postposition		
	n	%	n	%	
se	166	96	28	87.5	
zero	13	4	4	12.5	
Total	179	100	32	100	

Table 8: The frequency distribution of *se* and zero with respect to the presence or absence of a Region-encoding postposition in Phloïtá

	Without pre	nominal genitive	With prenominal genitive		
	n	%	n	%	
se	16	34.8	1	8.3	
zero	30	65.2	11	91.7	
Total	46	100	12	100	

Table 9: The frequency distribution of *se* and zero with respect to the presence/absence of a prenominal genitive in Sílli (D)

These findings suggest that the two dialects should not be interpreted as representing successive synchronies (Phloïtá Cappadocian > Silliot), but, rather, as independent historical stages each providing evidence for the effect that different linguistic factors had on the optional omission of *se* before it was completely lost from the prepositional inventory of Ulaghátsh Cappadocian (see section 5).

In accounting for the positive effect that the presence of prenominal genitives and postpositions has on the omission of *se* in Phloïtá Cappadocian and Silliot, we first observe that both seem to result in more informative motion event encoding utterances in the sense of ARIEL (1985, 1990, 1991, 2001). ARIEL classifies referring expressions along an accessibility marking scale with respect to the degree to which the mental representations of their referents are retrievable from speakers' memories. Three criteria determine the degree of accessibility of a given referring expression: (a) informativity, which corresponds to the amount of lexical information provided by the expression; (b) rigidity, which refers to the ability to pick a unique referent based on the form of the expression; and, (c) attenuation, which concerns the phonological size of the expression (ARIEL 2001: 32). More informative, rigid and unattenuated expressions are considered to display a low degree of accessibility whereas less informative, rigid and more attenuated expressions encode highly accessible referents.

Prenominal genitives are used to identify a specific referent of the kind denoted by the head noun of the Ground-encoding NP by anchoring it to another referent that has already been mentioned in the textual discourse. For example, *devrefú to spit* in (10) refers to the house of a known dervish that was introduced earlier in the story from which the example was drawn (the relevant mention reads: *istera θori éna devréfis* 'afterwards he sees a dervish', DAWKINS 1916: 414). In that, genitives provide additional information on the reference object of the spatial relation, which needs to be retrieved from the more or less immediate context. Therefore, NPs that are modified by a prenominal genitive are more informative, more rigid and less attenuated than unmodified NPs, whose phonological size is naturally smaller (*devrefú to spit* as opposed to *to spit*).

Sinasós, Delmesó and Potámia Cappadocian. In all other varieties, genitive nouns that take a definite

⁵ An anonymous reviewer suggests that the omission of *se* in the context of prenominal genitives could be related to the lack of a definite article preceding the genitive noun (*devrefú to spit*, and not *tu devrefú to spit*). DAWKINS (1916: 87–89) documents genitive forms for the definite article only in

As was mentioned in Section 3, postpositions are used to encode a specific spatial Region in relation to the Ground of the motion event. In some cases, the encoding of Region is necessary for the successful communication of the intended meaning. In (5b), for example, including *ombró* in the utterance is indispensable in order to make clear that the Figure stood in front of the hole and not behind it, inside it, beside it etc. In other cases, however, the semantic contribution of postpositions is, arguably, redundant either because Region is inherently encoded in the spatial verb or because the intended Region can be retrieved pragmatically based on world knowledge. This is the case of utterances such as (5a) and (11b). In (5a), batirdó 'to dip' inherently encodes the interior Region so that its expression by *mésa* is redundant. As far as (11b) is concerned, it is produced as a response to an invitation to have some water addressed to the speaker by her stepmother (op tíça tíi jatúxa pçe éna cirjó paró 'drink some fresh water out of this bottle', DAWKINS 1916: 300). In this context, the pragmatically expected Region in which the end point of the pouring event is to be found is again the interior of the cup. From this point of view, its overt encoding by means of apésu brings about a motion event utterance that is more informative, more rigid and less attenuated than an utterance that would not include a Region-encoding postposition.

The omission of *se* therefore seems to be the preferred option in motion event utterances in which the Ground-encoding expressions display high degrees of informativity and also possibly redundancy. The hypothesis that we formulate on that account and in line with LESTRADE's (2010, 2013) and STOLZ et al.'s (2014) recent proposals is that the omission is the result of an informational load relief strategy that helps to produce more economical utterances by dropping that constituent which is formally and semantically most dispensable in the sense that it makes the smallest contribution to the spatial relational meaning. Recall from Sections 2 and 3 that very often Goal and Place are encoded by more than one of the constituents of motion event utterances. Specifically, the two spatial relations can be encoded by both *se* and the spatial verbs, many of which obligatorily take

reading appear bare. This, however, does not seem to be connected to the omission of *se* as evidenced by examples such as (i) and (ii) from Ghúrzono and Sílata Cappadocian:

```
(i) Ghúrzono Cappadocian [DAWKINS 1916: 340]

songrá to yaíx ípe [patifaçú so
afterwards DEF.SG.NOM stag:SG.NOM say:PST.3SG king:SG.GEN LOC.DEF.SG.ACC

perí]

son:SG.NOM

'Afterwards, the stag said to the son of the king.'
```

(ii) Sílata Cappadocian [DAWKINS 1916: 446]

múlosen éna méra [odaðjú so jyklýk]

hide:PST.3SG INDF day:SG.ACC room:SG.GEN LOC.DEF.SG.ACC closet:.SG.ACC

'One day, he hid in the closet of the room.'

As shown in (i) and (ii), the lack of a genitive article before *patifaçú* and *odaðjú* does not block the use of *se* and its amalgamation with the accusative article preceding *perí* and *jyklýk*. Based on data of this kind, we see no compelling reason for establishing a connection between the two phenomena.

Goal or Place complements in the form of PrepPs. The idea is that speakers deem the use of *se* to be redundant in such utterances and consequently drop it for the sake of economy and without running the risk of communicative failure, thus producing utterances in which Goal and Place are solely encoded by the spatial verb. The high degree of polysemy of *se* combined with its minimal phonological size must only have facilitated this process.

Another factor that must have facilitated the omission of *se* in the context of postpositions is language contact with Turkish. KARATSAREAS (forthcoming b) has argued that the positioning of Region-encoding expressions after the prepositional complement in Asia Minor Greek CircumPs is modelled on Ottoman Turkish PostPs formed with relational nouns such as *üst-* 'top', *iç-* 'interior' and *ön-* 'front', which also encode Region. In Medieval Greek, these expressions typically preceded primary prepositions and formed compound PrepPs of the type [PREP + PREP + NP]; for example, *mesa eis to spitin* 'in(to) the house'. As a marked alternative, they could also follow the phrasal complement, resulting in CircumPs of the type [PREP + NP + POSTP] (*eis to spitin mesa*). In Asia Minor Greek, the similarity of the latter, marked order with corresponding Turkish PostPs (as in *evin iç-in-{e/de}* 'house-GEN interior-POSS.3SG-{DAT/LOC}') led to its promotion to the status of unmarked default. This diachronic scenario is given in Figure 1.

'in(to) the house'

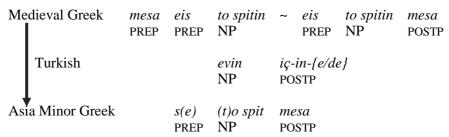


Figure 1: From compound PrepPs to CircumPs in inner Asia Minor Greek

As a result of this, Asia Minor Greek converged with Turkish on the structural level as far as the encoding of Region is concerned, though only to a certain extent. On the one hand, Region-encoding expressions appeared postpositionally in both languages. On the other hand, however, Greek retained a prepositional element, *se*, to encode a range of Goal and Place functions whereas Turkish lacked it, marking these by means of the dative and locative suffixes. Against this backdrop, the omission of *se* in CircumPs may also be understood as promoting structural convergence between the two contact languages even further by giving rise, for the first time in Greek, to PostPs in full alignment with the Turkish model. This more recent development is schematically illustrated in Figure 2.

'in(to) the house'

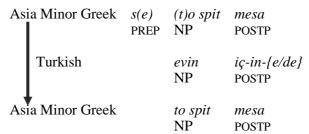


Figure 2: From CircumPs to PostPs in inner Asia Minor Greek

Evidence in support of the contributing role language contact must have played in these developments can be found in the pidgin variety of Greek that is spoken by the Muslim community of the island of Rhodes, whose dominant language is Turkish. Similarly to what we find in Phloïtá Cappadocian and Silliot, GEORGALIDOU et al. (2004) document the omission of *se* in the context of Regionencoding adpositions in this variety, which, as can be seen in (12), is also accompanied by the omission of the definite article.

(12)Rhodian pidgin Greek [GEORGALIDOU et al. 2004] [ðípla a. *spíti=tu* minaré] ítan house(N):SG.NOM=3SG.M.GEN COP.PST.3SG ADS minaret(M):SG.ACC 'His house was next to the minaret.' rúxa évale [neró mésa] all:N.SG.ACC clothe(N):PL.ACC put:PST.3SG water(N):SG.ACC INT 'S/he put all the clothes in the water.'

Note that Region appears encoded both by prepositions (12a), the typical option for the local Greek dialect, and by postpositions (12b), most probably due to contact with Turkish (cf. the Asia Minor Greek development shown in Figure 1).

Another language that could be reasonably argued to have served as a model for the omission of *se* is Armenian. In Armenian, both Goal- and Place-encoding nouns may appear zero-marked as opposed to Source-encoding nouns, which are always marked by an ablative suffix. This is the case in both dialects of Armenian, Eastern and Western, though, according to STOLZ et al. (2014: 76–80), in Eastern Armenian, zero-marking for Place is only used with place names. Consider the examples in (13):

(13) Eastern Armenian [adapted from DUM-TRAGUT 2009: 82, 102]
a. gjulatsi-ner-ə gnats^h-in daft
farmer-PL.NOM-DEF go-AOR.3PL field
'The farmers went to the field.'
b. aram-ə jerevan ɛ
PN-DEF PN COP.PRS.3SG
'Aram is in Yerevan.'

While it is uncontroversial that speakers of inner Asia Minor Greek did come in contact with speakers of Armenian, the extent of their contact and the degree to which the different Greek dialects of the area were influenced by Armenian are limited. To date, the only known instances of borrowing from Armenian into the inner Asia Minor Greek dialects are confined to a handful of loanwords collected by DAWKINS (1916: 196–197), whose small number makes any extensive grammatical replication seem fairly unlikely.

5. Stage III dialect: the completion of the innovation

From the initially favourable syntactic and semantic contexts that we described in the previous section, in Ulaghátsh Cappadocian, the omission of se spread to the less favourable contexts: from utterances in which the head nouns of Groundencoding NPs were modified by a prenominal genitive to utterances in which no genitive was present; from utterances in which Region was overtly specified by a postposition to utterances in which Region was not expressed in this way. In short, the innovation progressed from informationally loaded motion event utterances to informationally lighter ones. The ultimate result of this across-the-board spread was the complete loss of se from the prepositional inventory of the variety (DAWKINS 1916: 83, KESISOGLOU 1951: 54), which includes only the three overt members shown in Table 10. In STOLZ et al.'s (2014) terms, the syntagmatic zero that we find in Phloïtá Cappadocian and Silliot developed into a paradigmatic zero in Ulaghátsh. On this basis, we can add a fourth, phonologically empty member to the variety's prepositional paradigm. In SINHA & KUTEVA's (1995) terms, we move from an overtly distributed spatial semantics to a more covertly distributed spatial semantics.

Preposition	Main meaning(s)	Gloss
ap, as	ABLATIVE	'from'
me	COMITATIVE, INSTRUMENTIVE	'with'
OS	TERMINATIVE	'up to, until'
Ø	ALLATIVE, LOCATIVE	'to, at'

Table 10: The prepositional paradigm of Ulaghátsh Cappadocian

Following the loss of se, all the spatial functions that it originally encoded came to be encoded by bare, accusative-marked NPs of the type [NP_{ACC}]; see (14). In the cases in which Region needs to be additionally specified, this is done by PostPs of the type [NP_{ACC} + POSTPOSITION]; see (15).

(14)	Ulaghátsh Cappadocian		[KESISOGLOU 1951: 138, 156]			
	a. do koritf DEF.SG.NOM girl:SG.NOM		édeke	emír	na	
			give:PST.3SG order:SG.A		ACC COMP	
	mun	[do	cellér]			
	enter:PNP.3PL	DEF.SG.ACC	basement: So	G.ACC		
	'The girl ordered them to go into the basement.'					

b. [ekú do xorjó] nískoton

DEM.DIST DEF.SG.ACC village:SG.ACC become:PST.IPFV.3SG

éna gámos

INDF wedding:SG.NOM

'A wedding was taking place in that village.'

(15) Ulaghátsh Cappadocian [DAWKINS 1916: 348] émi qonáca mésa], ciríſde [ta hide:PST.3SG enter:PST.3SG DEF.PL.ACC house:PL.ACC INT jasdúiq píso] ART.DEF.SG.ACC cushion:SG.ACC POST 'She went into the houses, she hid behind the cushions.'

The loss of *se* had a number of ramifications for the typological profile of Ulaghátsh Cappadocian. Firstly, the various spatial functions were added to the set of functions that were already encoded by bare accusative-marked NPs. This includes not only the Recipient and Addressee functions (16a), which are normally found in the indirect object position, but also Patient and Theme (16b), which normally occupy the direct object position as complements of (di-)transitive verbs. In that respect, Ulaghátsh Cappadocian belongs to the rare type of language in which the same means of formal marking is used for the encoding of the direct object, the indirect object, the goal and the locative. Other languages that show similar kinds of catch-all marking are Guaraní, in which the suffix *-pe* is used to encode all four functions, and Tahitian, in which the prepositional marker 'i/'ia is used in the same way (BLANSITT 1988; for Guaraní, see GUASH 1956, GREGORES & SUÁREZ 1967, SHAIN & TONHAUSER 2011; for Tahitian, see LAZARD & PELZTER 1991, 2000, POTSDAM & POLINSKY 2012).

(16)Ulaghátsh Cappadocian [KESISOGLOU 1951: 156, 160] no=o=décit a. do [do nif DEF.SG.ACC bride:.SG.ACC FUT=3SG.ACC=give:PNP.2PL DEF.SG.ACC *pei=m*]? child:SG.ACC=1SG.GEN 'Will you give the bride to my child?' do=skótose arkadáf=ut] DEF.SG.ACC friend:SG.ACC=2SG.GEN 3SG.ACC=KILL:PST.3SG 'He killed his friend.'

Before we proceed to the second major ramifications of the loss of *se*, a few notes on the morphology of accusative marking in Ulaghátsh Cappadocian are in place. Following a series of inflectional developments (JANSE 2001, 2004, KARATSAREAS 2011a, forthcoming a, SPYROPOULOS & KAKARIKOS 2011), accusative forms are identical to nominative forms in both numbers across all inflectional classes; see Table 11. In addition, as a result of the loss of grammatical gender distinctions and the use of historically neuter forms for all agreement targets (articles, adjectives, participles, numerals) in all Cappadocian varieties,

nominative/accusative syncretism also applies to other form classes that may be found within (in)direct object, goal and locative NPs.

		IC1		IC2		IC3	
SG	NOM/ACC	çerif-os	'man'	papá-s	'priest'	néka	'woman'
	GEN	çerif- <u>i</u> ú		papa-iú		néka-iu	
PL	NOM/ACC	çeríf- <u>i</u> a		papá-ia		néc-es	
	GEN	çerif- <u>i</u> ú		papa-iú		néc-ez- <u>i</u> u	

		IC4		IC5		IC6	
SG	NOM/ACC	leró	'water'	met	'shirt'	ри́та	'cover'
	GEN	lero- <u>i</u> ú		met-įú		púma-iu	
PL	NOM/ACC	ler-á		mét-ia		púmat-a	
	GEN	lero-iú		met-jú		púma-iu	

Table 11: The nominal inflectional classes of Ulaghátsh Cappadocian

This has the even rarer consequence that, in Ulaghátsh Cappadocian, the marking used for the direct object, indirect object, goal and locative functions is always the same as the one used for the subject. Consider, for example, the form of the definite article and of the head noun in the NP *do korif* in (17).

(17) Ulaghátsh Cappadocian [KESISOGLOU 1951: 140] a. **[***do* koris írte éna isíz DEF.SG.NOM girl:SG.NOM come:PST.3SG INDF deserted:SG.ACC tópos place:SG.ACC 'The girl came to a deserted place.' [do]b. do píren=do aráp DEF.SG.NOM Arab:SG.NOM take:PST.3SG=3SG.ACC DEF.SG.ACC korif] pal pétasen=do girl:SG.ACC again throw:PST.3SG=3SG.ACC 'The Arab took the girl again and threw her away.' koríf] épe c. [*do* cina girl:SG.ACC say:PST.3SG DEF.SG.ACC **COMP FUT** se=páro 2SG.ACC=take:PNP.1SG 'He said to the girl: "I will marry you".'

Semantic disambiguation in this dialect is therefore heavily dependent upon pragmatic inferencing as well as syntactic devices such as word order and clitic doubling (JANSE 1994, 1997, 1998a, 1998b, 2006, 2008).

6. Summary and avenues for further research

In this article, we described the diachrony of the preposition *se* in the inner Asia Minor Greek dialects taking advantage of the fact that different dialects within the

group are found at different points along the developmental trajectory of se. We first showed that, in the conservative dialects, namely, in all Cappadocian varieties except for Phloïtá and Ulaghátsh Cappadocian, and in Pharasiot, se is preserved as a full member of the prepositional paradigm. At this pre-innovation stage, se encodes a wide range of mainly spatial functions and occurs in two syntactic types of adpositional phrases: PrepPs ([$se + NP_{ACC}$]) and CircumPs ([$se + NP_{ACC} + POSTPOSITION$]).

We then examined Phloïtá Cappadocian and Silliot, in which se is optionally omitted in contexts in which its use is obligatory in the more conservative dialects. In these dialects, zero is used instead of se, which results in two novel syntactic means for the expression of spatial relations: bare, accusative-marked NPs ([NP_{ACC}]) and PostPs ([NP_{ACC} + POSTPOSITION]). The analysis of the data gathered from one Phloïtá Cappadocian corpus and two Silliot corpora suggested that zero marking is the preferred option in two types of motion event utterances: (a) in utterances in which the head noun of the Ground-encoding NP is modified by a prenominal genitive, and (b) in utterances in which Region was overtly encoded by a postposition. In both dialects, the zero marker is of the syntagmatic type in STOLZ et al.'s (2014) terms in that its use is conditioned by specific syntactic and semantic factors. We accounted for these seemingly disparate findings in terms of high levels of informativity so that the innovative omission of se and the concomitant use of zero to mark spatial relations may be understood as an informational load relief strategy intended to produce more economical motion event utterances. We also attributed the latter finding to the effect of language contact with Turkish and argued that the omission of the prepositional element from Asia Minor Greek CircumPs was brought about in order to promote structural convergence between the two languages with respect to the encoding of Region in the form of PostPs. We also briefly examined the possibility that language contact with Armenian may also have favoured the loss of se.

We finally looked at Ulaghátsh Cappadocian, in which zero marking was generalised in all syntactic and semantic contexts and became paradigmatic. As a result, bare, accusative-marked NPs and PostPs are the only available options for the encoding of spatial relations. We examined the ramifications of this unique development, the most important of which was that, in this dialect, the same type of formal marking is used for all basic syntacticosemantic functions: subject, direct object, indirect object, goal and locative.

In this article, we limited our investigation to three modern Asia Minor dialects. Future research, however, is needed to establish whether there is a connection between the omission and loss of *se* in this group and similar developments attested not only in Modern Greek dialects spoken in other areas but also in the Medieval Greek historical record. With respect to the former, PANTELIDIS (forthcoming) has collected a non-negligible number of documented examples from the Regions of Arcadia, Corinthia and Laconia in the Peloponnese that evidence the omission of *se* in both Goal and Place contexts and in both simple and compound PrepPs. An illustrative example from Vrésthena in northeastern Laconia is given in (18). The phenomenon is also found in Cyprus (19), Chios (20) and Karpathos (21), which might be an indication of a south-eastern innovation.

- (18) Vrésthena Greek [KOUKOULES 1908: 249] emís sikoθíkame kamná katostí 1PL.NOM rise:PST.1PL PRN.INDF.F.SG.NOM hundred(F):SG.NOM fabeλés páme [ta tzíntzina] go:PRS.1PL family(F):PL.NOM and DEF.N.PL.ACC PN(N):PL.ACC vjénome [ton ái vasíli] apó ciABL DEM.DIST arrive:PRS.1PL DEF.M.SG.ACC PN(M):SG.ACC [ti rematçá mésa] stream(F):SG.ACC INT DEF.F.SG.ACC 'A hundred families of us rose and went to Tzíntzina, from there we arrived at Saint Vasileios, inside the stream.'
- Cypriot Greek (19)[CHRISTODOULOU 2015: 27] *káθikan*] páo i ejóni [ton 1sg.nom PN(M):SG.ACC when go:PRS.1SG or DEF.M.SG.ACC [tin páfo] or DEF.F.SG.ACC PN(F):SG.ACC 'When I go to either Kathikas or Paphos...'
- (20)Chiot Greek [PERNOT 1907: 449, 450] a. [*óla* kástr'] epíya ta all:N.PL.ACC DEF.N.PL.ACC city(N):PL.ACC go:PST.1SG 'I have been to all the cities.' b. kuvalúsamen stafiλa [tun carry:PST.IPFV.1PL DEF.N.PL.ACC grape(N):PL.ACC DEF.M.SG.ACC liména] port(M):SG.ACC 'We would carry the grapes to the port.'
- (21) Karpathiot Greek [MINAS 1970: 108]

 o m etráviksen [tin potamía]

 DEF.M.SG.NOM PN set_out:PST.3SG DEF.F.SG.ACC PN(F):SG.ACC

 'M. set out for Potamia.'

With respect to the latter set of attested cases, TACHIBANA (1994) documents the use of zero instead of *se* in compound PrepPs formed with one of the following secondary prepositions in several manuscripts of the *Alexander Romance* produced between the 15th and 17th century as well as in a number of other medieval texts of the same period: *apanōthen*, *apanōtheon*, *epanōthen*, *katapanō* 'SUPERIOR'; *apokatō*, *apokatou*, *ypokatō* 'INFERIOR'; and, *empros*, *emprosthen* 'ANTERIOR'. In all cases, TACHIBANA finds simple PrepPs of the type shown in (22).

(22) Medieval Greek, *Alexander Romance ēlthen aetos megas [apanōtheon*come:PST.3SG eagle(M):SG.NOM big(M):SG.NOM SUP

tēn tentan tou vasileōs]

DEF.F.SG.ACC tent(F):SG.ACC DEF.F.SG.GEN king(M):SG.GEN
'A big eagle came above the king's tent.' [Recensio F 12, 3, 2]

TACHIBANA (1994: 41) argues that (a) the occurrence of this type of PrepP in more than one manuscript of the *Alexander Romance*; (b) its occurrence in other texts as well; and (c) the fact that the use of zero instead of *se* is systematically found with only a subset of secondary prepositions suggest that what we are dealing with here should not be attributed to scribal error but, rather, constitutes a substandard construction of some vernacular variety of Late Medieval Greek. If that is indeed confirmed to be the case, then it will need to be examined whether this substandard variant could have paved the way for the developments that we find in the Modern Greek dialects of inner Asia Minor, the Peloponnese, Cyprus, Chios and Karpathos, and whether the dialectal innovations are related by simply originating in the same diachronic source or in some different way, perhaps by undergoing the same innovations independently.

Abbreviations

	1100000				
1	first person	DIST	distal	PNP	perfective non-
2	second person	GEN	genitive		past
3	third person	IMP	imperative	POSS	possessive
ABL	ablative	INDF	indefinite	POST	posterior
ACC	accusative	INT	interior	POSTP	postposition
ADS	adessive	IPFV	imperfective	PREP	preposition
ANT	anterior	LOC	locative	PRN	pronoun
AOR	aorist	M	masculine	PROX	proximate
COMP	complementiser	N	neuter	PRS	present
COP	copula	NOM	nominative	PST	past
DAT	dative	OBJ	object	SG	singular
DEF	definite	PL	plural	sup	superior
DEM	demonstrative	PN	proper name		

Textual sources

Recensio F = cod. Flor. Laurentianus Ashburn 1444. Konstantinopulos, Vasileios L. & Lolos, Anastasios C. (1983): *Ps.-Kallisthenes: Zwei mittelgriechische Prosa-Fassungen des Alexanderromans*, 2 volumes. Meisenheim am Glan: Hain.

References

ANASTASIADIS, VASILEIOS K. (1976): I syntaksi sto farasiotiko idioma tis Kappadokias se sygkrisi pros ta ypoloipa idiomata tis Mikras Asias kathos kai pros tin archaia, ti mesaioniki kai ti nea elliniki glossa [The syntax of the Pharasiot dialect of Cappadocia in comparison with the rest of the Asia Minor Greek dialects as well as the Ancient, Medieval and Modern Greek Language]. Thessaloniki.

ANDERSEN, HENNING (1988): Centre and periphery: Adoption, diffusion and spread, in: FISIAK, JACEK (ed.), *Historical dialectology: Regional and social.* Berlin/New York: Mouton de Gruyter, 39–83. ARIEL, MIRA (1985): The discourse functions of given information, in: *Theoretical Linguistics* 12(2/3), 99–113.

ARIEL, MIRA (1990): Accessing noun-phrase antecedents. London: Routledge.

- ARIEL, MIRA (1991): The function of accessibility in a theory of grammar, in: *Journal of Pragmatics* 16(5), 3–42.
- ARIEL, MIRA (2001): Accessibility theory: An overview, in: SANDERS, TED; SCHLIPEROORD, JOOST & SPOOREN, WILBERT (eds.), *Text representation*. Amsterdam/Philadelphia: John Benjamins, 29–87.
- BLANSITT, EDWARD L. (1988): Datives and allatives, in: HAMMOND, MICHAEL; MORAVCSIK, EDITH A. & FIRTH, JESSICA A. (eds.), *Studies in syntactic typology*. Amsterdam/Philadelphia: John Benjamins, 73–91.
- BLOOMFIELD, LEONARD (1933): Language. London: Allen & Unwin.
- BORTONE, PIETRO (2010): Greek prepositions: From antiquity to the present. Oxford: Oxford University Press.
- CAVIRANI, EDOARDO (2015): Modelling phonologization: vowel reduction and epenthesis in Lunigiana dialects. Utrecht: LOT.
- CHRISTODOULOU, CHARALAMBOS (2015): To glossiko idioma tis voreiodytikis Pafou: Fonologiki perigrafi [The dialect of northwestern Paphos: a phonological description]. Unpublished doctoral dissertation. Aristotle University of Thessaloniki, Greece.
- DAVID, ANNE BOYLE (2014). *Descriptive grammar of Pashto and its dialects*. University of Maryland: De Gruyter Mouton.
- DAWKINS, RICHARD M. (1916): Modern Greek in Asia Minor: A study of the dialects of Silli, Cappadocia and Phárasa with grammar, texts, translations and glossary. Cambridge: Cambridge University Press.
- DAWKINS, RICHARD M. (1940): The dialects of Modern Greek, in: *Transactions of the Philological Society* 39, 1–38.
- Dum-Tragut, Jasmine (2009): Armenian: Modern Eastern Armenian. Amsterdam/Philadelphia: John Beniamins.
- FILLMORE, CHARLES J. (1971): How to know whether you're going or coming, in: HYLDGAARD-JENSEN, KARL (ed.), *Linguistik 1971: Referate des 6. Linguistischen Kolloquims*, 11-14 August 1971 in Kopenhagen. Frankfurt: Athenäum Verlag, 369–379.
- GEHRKE, BERIT & LEKAKOU, MARIKA (2013): How to miss your preposition, in: Studies in Greek Linguistics 33. Proceedings of the 33rd Annual Meeting of the Department of Linguistics, Faculty of Philosophy, Aristotle University of Thessaloniki. 26–27 April 2012. Thessaloniki: Aristoteleio Panepistimio Thessalonikis, Instituto Neoellinikon Spoudon [Idryma Manoli Triantafyllidi], 92–106
- GEORGAKOPOULOS, THANASIS (2011): Gnosiaki proseggisi tis simasiologikis allagis ton protheseon tis Ellinikis: I periptosi tis eis [A cognitive approach to semantic change in Greek prepositions: The case of eis]. Unpublished doctoral dissertation. National and Kapodistrian University of Athens. Greece.
- GEORGAKOPOULOS, THANASIS (2014): On the encoding of ALLATIVE and RECIPIENT in the Greek diachrony, in: KUTSCHER, SILVIA & WERNING, DANIEL A. (eds.), On ancient grammars of space: Linguistic research on the expression of spatial relations and motion in ancient languages. Berlin/Boston: De Gruyter, 45–66.
- GEORGALIDOU, MARIANTHI; SPYROPOULOS, VASSILIOS & KAILI, HASAN (2004): Language shift in the bilingual in Greek and Turkish Muslim community of Rhodes. Paper presented at *Sociolinguistics Symposium 15*, Newcastle University, 1–4 April 2004.
- Gregores, Emma & Suárez, Jorge A. (1967): *A description of colloquial Guaraní*. The Hague: Mouton de Gruyter.
- GUASH, ANTONIO (1956): El idioma guaraní. Asunción: Casa América-Moreno Hermanos.
- HOPPER, PAUL J. (1991): On some principles of grammaticization, in: TRAUGOTT, ELIZABETH CLOSS & HEINE, BERND (eds.), *Approaches to Grammaticalization: Volume I.* Amsterdam/Philadelphia: John Benjamins, 17–36.
- HUMBERT, JEAN (1930): La disparition du datif en grec (du I^{er} au X^e siècle). Paris: E. Champion
- IOANNIDOU, ALEXANDRA & DEN DIKKEN, MARCEL (2009): P-drop, D-drop, D-spread, in: HALPERT, CLAIRE; HARTMAN, JEREMY & HILL, DAVID (eds.), *Proceedings of the 2007 Workshop in Greek Syntax and Semantics, MIT Working Papers in Linguistics 57.* Cambridge, MA.: MIT Press, 393–408.
- JACKENDOFF, RAY (1983): Semantics and cognition. Cambridge, Mass./London: MIT Press.

- JACKENDOFF, RAY (1990): Semantic structures. Cambridge, Mass./London: MIT Press.
- JANSE, MARK (1994): Son of Wackernagel: The distribution of object clitic pronouns in Cappadocian, in: PHILIPPAKI-WARBURTON, IRENE; NICOLAIDIS, KATERINA & SIFIANOU, MARIA (eds.), Themes in Greek linguistics. Papers from the First International Conference on Greek Linguistics, Reading, September 1999. Amsterdam/Philadelphia: John Benjamins, 435–442.
- JANSE, MARK (1997): Synenclisis, metenclisis, dienclisis: The Cappadocian evidence, in: DRACHMAN, GABERELL (ed.), Greek linguistics 95: Proceedings of the Second International Conference on Greek Linguistics (Salzburg, 22–24 September 1995). Volume II. Graz: Neugebauer, 695–706.
- Janse, Mark (1998a). Cappadocian clitics and the syntax-morphology interface, in: Joseph, Brian D; Horrocks, Geoffrey C. & Philippaki-Warburton, Irene (eds.), *Themes in Greek Linguistics II*. Amsterdam/Philadelphia: John Benjamins, 257–281.
- JANSE, MARK (1998b). Grammaticalization and typological change: The clitic cline in Inner Asia Minor Greek, in: JANSE, MARK (ed.), Productivity and creativity: studies in general and descriptive linguistics in honor of E. M. Uhlenbeck. Berlin: Mouton de Gruyter, 521–547.
- JANSE, MARK (2001). Morphological borrowing in Asia Minor Greek, in: AGGOURAKI, YORYIA; ARVANITI, AMALIA; DAVY, JIM; GOUTSOS, DIONYSIS; KARYOLAIMOU, MARILENA; PANAGIOTOU, ANNA; PAPAPAVLOU, ANDREAS; PAVLOU, PAVLOS & ROUSSOU, ANNA (eds.), Proceedings of the 4th International Conference on Greek Linguistics. Nicosia, 17–19 September 1999. Thessaloniki: University Studio Press, 473–479.
- Janse, Mark (2002): Aspects of bilingualism in the history of the Greek language, in: Adams, James Noel; Janse, Mark & Swain Simon (eds.), Bilingualism in ancient society: Language contact and the written text. Oxford: Oxford University Press, 332–390.
- Janse, Mark (2004): Animacy, definiteness, and case in Cappadocian and other Asia Minor Greek dialects, in: *Journal of Greek Linguistics* 5, 3–26.
- JANSE, MARK (2006): Object position in Cappadocian and other Asia Minor Greek dialects, in: JANSE, MARK; JOSEPH, BRIAN & RALLI, ANGELA (eds.), Proceedings of the 2nd International Conference on Modern Greek Dialects and Linguistic Theory. Patras: University of Patras, 115–129.
- Janse, Mark (2008): Clitic doubling from Ancient to Asia Minor Greek, in: Kallulli, Dalina & Tasmowski, Liliane (eds.), *Clitic doubling in the Balkan languages*. Amsterdam/Philadelphia: John Benjamins, 165–202
- KARATSAREAS, PETROS (2009): The loss of grammatical gender in Cappadocian Greek, in: *Transactions of the Philological Society* 107(2), 196–230.
- KARATSAREAS, PETROS (2011a): A study of Cappadocian Greek nominal morphology from a diachronic and a dialectological perspective. Unpublished doctoral dissertation. University of Cambridge, United Kingdom.
- KARATSAREAS, PETROS (2011b): Neuter heteroclisis in Asia Minor Greek: origin and development, in: *Neoelliniki Dialektologia* [*Modern Greek Dialectology*] 6, 111–135.
- KARATSAREAS, PETROS (2013): Understanding diachronic change in Cappadocian Greek: The dialectological perspective, in: *Journal of Historical Linguistics* 3(2), 192–229.
- KARATSAREAS, PETROS (2014): On the diachrony of gender in Asia Minor Greek: The development of semantic agreement in Pontic, in: *Language Sciences* 43, 77–101.
- KARATSAREAS, PETROS (forthcoming a): Convergence in word structure: revisiting agglutinative noun inflection in Cappadocian Greek, in: *Diachronica*.
- KARATSAREAS, PETROS (forthcoming b): The Asia Minor Greek adpositional cycle: a tale of multiple causation, in: *Journal of Greek Linguistics*.
- KESISOGLOU, IOANNIS I. (1951): To glossiko idioma tou Oulagats [The dialect of Ulaghátsh]. Athens: Institut Français d'Athènes.
- KÖNIG, WERNER; STEPHAN ELSPASS & ROBERT MÖLLER (2015 [1978]). dtv-Atlas Deutsche Sprache. Munich: Deutscher Taschenbuch Verlag.
- KOSTAKIS, ATHANASIOS (1968): To glossiko idioma tis Sillis [The dialect of Silli]. Athens: Institut Français d'Athènes.
- KOUKOULES, FAIDON (1908): Oinountiaka, i meleti peri tis istorias, ton ithon kai ethimon kai tou glossikou idiomatos tou dimou Oinountos tis eparchias Lakedaimonos [Oinountiaka, or a study on the history, the customs and the dialect of the Oinous municipality of the Lakedaimon prefecture]. Chania: Michael I. Saliveros.

- LANGACKER, RONALD W. (2008): Cognitive grammar: A basic introduction. Oxford: Oxford University Press.
- LAZARD, GILBERT & PELTZER, LOUISE (1991): Predicates in Tahitian, in: *Oceanic Linguistics* 30(1), 1–31.
- LAZARD, GILBERT & PELTZER, LOUISE (2000): Structure de la langue tahitienne. Paris/Louvain/ Stirling, Virginia: Peeters.
- LEHMANN, CHRISTIAN (2012): Converse categorization strategies, in: Linguistics 50(3), 467-494.
- LENDARI, TINA & MANOLESSOU, Io (2003): I ekfora tou emmesou antikeimenou sti Mesaioniki Elliniki: Ekdotika kai glossologika provlimata [The expression of the indirect object in Medieval Greek: Editorial and linguistic problems], in: Studies in Greek Linguistics 23. Proceedings of the 23rd Annual Meeting of the Department of Linguistics, Faculty of Philosophy, Aristotle University of Thessaloniki. 17–19 May 2002. Thessaloniki: Aristoteleio Panepistimio Thessalonikis, Institutto Neoellinikon Spoudon [Idryma Manoli Triantafyllidi], 394–405.
- LESTRADE, SANDER (2010): The space of case. Nijmegen: Radboud Universiteit Nijmegen.
- LESTRADE, SANDER (2013): The optional use of morphological case, in *Linguistic Discovery* 11(1), 84–104.
- MANOLESSOU, IO (2015): Sources for the early history of variation in the Asia Minor dialects. Paper presented at the *Morphological Variation and Contact Workshop*, *University of Patras*, *Greece*, 19–20 June 2015.
- MANOLESSOU, IO & BEIS, STAMATIS (2006): Syntactic isoglosses in Modern Greek dialects: The case of the indirect object, in: RALLI, ANGELA; JOSEPH, BRIAN & JANSE, MARK (eds.), Proceedings of the 2nd International Conference on Modern Greek Dialects and Linguistic Theory. Mytilene, Greece. September 2004. Patras: University of Patras, 220–235.
- MINAS, KONSTANTINOS (1970): Ta idiomata tis Karpathou [The dialects of Karpathos]. Athens.
- Pantelidis, Nikolaos (forthcoming): Peloponnisiaki [Peloponnesian], in: Tzitzilis, Christos (ed.), *Neoellinikes dialektoi [Modern Greek dialects*]. Thessaloniki: Aristoteleio Panepistimio Thessalonikis, Instituto Neoellinikon Spoudon [Idryma Manoli Triantafyllidi].
- Pernot, Hubert (1907). Études de linguistique néo-hellénique. I. Phonétique des parlers de Chio. Fontenay-sous-Bois (Seine).
- POTSDAM, ERIC & POLINSKY, MARIA (2012): The syntax of the Tahitian actor emphatic construction, in: *Oceanic Linguistics* 51(1), 58–85.
- SINHA, CHRIS & KUTEVA, TANIA (1995): Distributed spatial semantics, in: *Nordic Journal of Linguistics* 18(2), 167–199.
- SHAIN, CORY & TONHAUSER, JUDITH (2011): The synchrony and diachrony of differential object marking in Paraguayan Guaraní, in: *Language Variation and Change* 22(3), 321–346.
- SKOPETEAS, STAVROS (2008): Encoding spatial relations: Language typology and diachronic change in Greek, in: *Language Typology and Universals* 61(1), 54–66.
- SPYROPOULOS, VASSILIOS & KAKARIKOS, KONSTANTINOS (2011): A feature-based analysis of Cappadocian Greek nominal inflection, in: JANSE, MARK; JOSEPH, BRIAN D.; PAVLOU, PAVLOS; RALLI, ANGELA & ARMOSTI, SPYROS (eds.), Studies in Modern Greek dialects and linguistic theory. Nicosia: Research Centre of Kykkos Monastery, 203–214.
- STOLZ, THOMAS; LESTRADE, SANDER & STOLZ, CHRISTEL (2014): The crosslinguistics of zero-marking of spatial relations. Berlin/Boston: De Gruyter Mouton.
- TACHIBANA, TAKASHI (1994): Syntactic structure of spatial expressions in the 'Late-Byzantine prose Alexander Romance', in: プロピレア: *ΠΡΟΠΥΛΑΙΑ* 6, 35–51.
- TALMY, LEONARD (1972): Semantic structures in English and Atsugewi. Unpublished doctoral dissertation. University of California, Berkeley, United States of America.
- Talmy, Leonard (1985): Lexicalization patterns: Semantic structure in lexical forms, in: Shopen, Timothy (ed.), *Language typology and syntactic description: Grammatical categories and the lexicon*. Cambridge: Cambridge University Press, 57–149.
- TALMY, LEONARD (2000): Toward a cognitive semantics. Cambridge, Mass./London: MIT Press.
- Terzi, Arhonto (2010): On null spatial Ps and their arguments, in: Catalan Journal of Linguistics 9, 167–187.
- Trapp, Erich (1965): Der Dativ und der Ersatz seiner Funktion in der byzantinischen Vulgärdichung bis zur Mitte der 15 Jahrhundert, in: *Jahrbuch der Österreichischen Byzantinistik* 14, 21–34.

Weiß, Helmut (2012). The rise of DP-internal possessors: On the relationship of dialectal synchrony to diachrony, in: De Vogelaer, Gunther & Seiler, Guido (eds.), *The dialect laboratory: Dialects as a testing ground for theories of language change.* Amsterdam/Philadelphia: John Benjamins, 271–294.

WOIDICH, MANFRED (2006): Das Kairenish-Arabische: Eine Grammatik. Wiesbaden: Harrasowitz.

Petros Karatsareas
Department of English, Linguistics and Cultural Studies
University of Westminster
32–38 Wells Street
London W1T 3UW
United Kingdom
P.Karatsareas@westminster.ac.uk

THANASIS GEORGAKOPOULOS Excellence Cluster Topoi, Area C Freie Universität, Berlin Hannoversche Straße 6 10115 Berlin Germany thanasis.georgakopoulos@fu-berlin.de