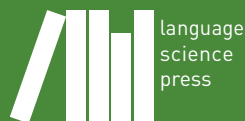


Evidentiality, egophoricty and engagement

Edited by

Henrik Bergqvist, Seppo Kittilä

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Preface

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Preface with an editor, abstract and citation footer

Jane Meier

University of Eden

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Chapter 1

Epistemic perspectives: evidentiality, egophoricity, and engagement

Henrik Bergqvist and Seppo Kittilä

1 Introduction

In the last decade, there has been a surge in output on various forms of epistemic marking in language, including (epistemic) modality, evidentiality, mirativity, egophoricity, and engagement.¹ Some of these terms are better known than others.² To begin with, epistemic modality has a long research tradition stemming from philosophy and qualifies an utterance in terms of possibility and probability, ranging from speculation to high certainty. The first monograph-length treatment of epistemic modality from a cross-linguistic perspective is

¹Edited volumes that deserve mention are: AikhenvaldDixon2003 (AikhenvaldDixon2003; AikhenvaldDixon2014) on evidentiality, modality, and expressions of knowing in grammar more broadly; GawneHill2017 on evidentiality in Tibetan languages; SanRoqueetal2018 on egophoricity. The list of journal articles on epistemic marking in grammar is (very) long, but we may note Evansetal2017a (Evansetal2017a, Evansetal2017b) on engagement, BergqvistKnuchel2017 on egophoricity, and SanRoqueetal2017 on evidentials and interrogativity.

²By using terms like “evidentiality” and “egophoricity”, we refer to meaning domains that signal how knowledge about events can be qualified in different ways. Usually, such domain labels come with a definition that is found in the seminal literature dealing with a given domain (e.g. Palmer2001, for modality), but this is not always the case. Definitional criteria for comparable systems and forms are often contested and in a relatively young field such as the present one, debates concerning what counts as defining (semantic) features of a certain domain, are especially fierce. In this volume, a term like “evidentiality” is regarded as constituting a linguistic category in some languages, but consequently also refers to an epistemic domain that expresses different “modes of access” (Plungian2010) with respect to how knowledge about events may be acquired.



Palmer1986 (Palmer1986; Palmer2001). At about the same time, research on the related category, evidentiality, also began to gain momentum. Evidentiality signals the source of information that a speaker has for an utterance. It is often sub-divided into direct and indirect evidentials where direct evidentials target the (direct) perception of the speaker, signaling sensory access (visual, auditory) to a discourse object. Indirect evidentials express other types of cognitive access, such as inference, assumption, and hearsay, and may be differentiated by how directly accessible a given type of evidence is. For example, inference and assumption are both based on the speaker's observation of a state-of-affairs that is not directly related to the event his/her claim is based on (e.g., we may infer that someone has left if that person's coat is gone). Inference is usually based on direct sensory perception, while assumption is often based on our general knowledge of the world, thus differing in type of indirect access (see e.g. Willett1988). Aikhenvald2004 (Aikhenvald2004) is the first typological treatment of evidentiality, but it is ChafeNichols1986' (ChafeNichols1986) seminal volume that is commonly regarded as the first work to investigate evidentiality from a cross-linguistic perspective.

Mirativity is regarded as separate from evidentiality by some (e.g. DeLancey1997), but the ultimate definition of this category (and even its existence) is still under debate.³

Miratives signal new/non-assimilated knowledge and has often been said to convey the surprise of the speaker (DeLancey1997; cf. Aikhenvald2014). Surprise as a defining semantic component of mirativity has increasingly been rejected, however, whereas the signaling of new/non-assimilated information appears to be more widely accepted (but see Hill2012 for arguments against the category of mirativity). In some languages (e.g. Turkish and Finnish), mirativity is found in specific uses of inferential evidential morphemes, while in other languages (such as Hare), there is a morpheme whose primary, or even only, function, is to signal mirativity (DeLancey1997).

Egophoricity signals the epistemic authority of a speech-act participant (speaker or addressee) subject to his/her involvement in a talked-about event (Bergqvist2018; BergqvistKittila2017; cf. Hargreaves2005). This dialogical property of the egophoric marker has produced a pattern where egophoric markers occur in statements with first person subjects and in questions with second person subjects: *I am leaving*. [EGO] vs. *Are you leaving?* [EGO]. This functional overlap with person marking has led some to regard egophoric marking as a form of person marking/a-

³See e.g. the debate in Linguistic Typology, involving, among others, Hill2012, DeLancey2012, and HenegeveldOlbertz2012.

greement, but it is clear from diachronic, distributional, and semantic criteria that egophoric marking is distinct from person marking (see **BergqvistKittila2017**, for a discussion). Egophoricity, as a term to designate this kind of epistemic marking, was proposed by Nicolas **Tournadre1996** (**Tournadre1996**), but the forms he discussed using the term had already been described by Austin **Hale1980** for Kathmandu Newar, then called “conjunct” (contrasted to “disjunct”). Subsequent research on the phenomenon called into question the usefulness of the label “conjunct/disjunct” and various proposals were put forth to replace it (e.g. “assertors involvement”, **Creissels2008**; “congruent/non-congruent”, **Dickinson2000**). **SanRoqueetal2018** opts for the term egophoricity in providing a comprehensive overview of the phenomenon.

Engagement, finally, is a term that has had some currency in French linguistics (e.g. **Descles2009**; **Guentcheva2011**) and in discourse studies (**Hyland2005**), but in the work of **Evansetal2017a** (**Evansetal2017a**, **Evansetal2017b**) it is used as a label for a kind of epistemic marking separate from the categories outlined above. Engagement targets the epistemic perspectives of the speech-act participants, signaling differences in the distribution of knowledge and/or attention between the speaker and the addressee. As such, it specifies whether information is shared, or exclusive to one of the speech-act participants. This contrast is exemplified with data from Southern Nambikwara (**Kroeker2001** [our adjusted glossing and translation]):

- (1) Nambikwara
 - a. *wa3ko3n-a1-Ø-wa2*.
work-1-PRES-EXCL-IMPF
'I am working.'
 - b. *wa3ko3n-a1-ti2.tu3-wa2*
work-1-SHRD-IMPF
'(You and I see that) I am working'

In (1), the semantic contrast between exclusive and shared knowledge is signaled by a zero morpheme and the *-ti2tu3*-suffix, respectively.⁴

While the translation suggests a visual mode of access to go along with such knowledge asymmetry, this is not encoded in said forms, but signaled by means of separate evidential morphology (see **Kroeker2001**, for details). Engagement markers are generally underspecified with respect to how knowledge about an event is gained, but **Evansetal2017b** note that engagement markers often com-

⁴**Kroeker2001**'s label for what we term engagement, is "verification".

bine with evidentials and modals to signal (a)symmetries in terms of accessibility to and belief of some event. An issue that relates to the topic of the present volume in terms of categorical overlap, is whether the assumed distribution of knowledge between the speech-act participants concerns their actual knowledge/non-knowledge, or their rights/non-rights to knowledge (see Grzech, this volume). It is possible that this contrast in terms of knowledge access and rights to knowledge is subject to variation across engagement systems. While engagement has yet to be widely accepted as a grammatical category in some languages, arguments for making such a claim are put forth in §3.3, below.

The organization of this introductory chapter is as follows. In §2, we will discuss the functional and semantic overlaps between the discussed categories on a general level. In §3, we will focus on the relation between the discussed categories as resources for expressing epistemic authority, and in §4, we will summarize the main points of the paper and suggest some ideas for future research.

2 Functional and semantic overlap between categories

It is a widely known fact that the abovementioned categories overlap in form, meaning, and function (see Cornillie2009; de Haan1999; *inter alia*). This has been especially noted with respect to modality and evidentiality, where an English modal verb like *must* may be treated as a modal, or an evidential depending on the context of use. Such ambiguity has led some researchers to analyze evidentiality as a subtype of modality (e.g. Palmer1986; Palmer2001), whereas others have argued for a strict separation between the two categories (e.g. Aikhenvald2004).

A comparable overlap has also been observed for evidentiality, mirativity, and egophoricity. With respect to evidentiality and mirativity, an inferential (evidential) form may also serve as a mirative depending on the context of use, as in Turkish (SlobinAksu1982). Evidentiality and egophoricity overlap to the extent that egophoric markers may be part of evidential paradigms and thus contrast with evidential forms. Semantically, some have argued that egophoric marking cannot be regarded as a kind of evidential marking due to the fact that such markers do not signal a source of information, as such (e.g. Aikhenvald2004). Others have argued the opposite and regard egophoric markers as the strongest kind of access that speakers employ to justify a statement (Plungian2010; SanRoqueLoughnane2012; cf. Boye2012, evidentiality as ‘justification’). Egophoric markers have sometimes been analyzed as a kind of mirative marker for Tibetan and Barbacoan languages (DeLancey1997; Dickinson2000; but see Curnow2002, for a critique). Kittilä (forthcoming), shows that egophoric markers have features in common with gen-

eral knowledge/factual evidentials and that claims of factuality may formally resemble markers of both visual evidence and volitional participation in an event.

Several papers in this volume discuss categorical overlaps of the kind sketched above. We will mention a few of them here. Liljegren notes for the Indo-Aryan language Palula that indirect evidentiality is produced by the contextualized token-use of perfect forms in addition to employing sentence final particles denoting hearsay and inference. The use of aspectual forms and particles to serve evidential functions are a commonly noted phenomenon, which has also been attested for Turkic (SlobinAksu1982), Caucasian (Tatevosov2001), and Persian languages (Lazard1996).

Grzech accounts for epistemic markers in a variety of Quechua that previously have been described as evidentials, but which Grzech analyzes as signaling epistemic authority. Given the defining role of epistemic authority in egophoric marking, this constitutes a clear case of conceptual overlap between the two categories where a set of evidential markers (i.e. that are cognate to evidentials in related languages) have developed egophoric semantics. While assigning epistemic authority is implied by the use of direct and indirect evidentials (see §3.1, below), it has become encoded in Tena Kichwa, an Ecuadorian variety of Quechua. Conversely, languages with egophoric marking (see e.g. Tournadre2008) may imply the cognitive access that a speaker claims for making an assertion, while the speaker's epistemic authority is encoded in the form (see §3.2, below).

For Kalapalo, Basso accounts for an enormously rich variety of epistemic markers with different grammatical status that includes modal and evidential notions, but which also feature participation and the positioning of knowledge between the speech-act participants. In a language like Kalapalo, it may not be fruitful to base categorical distinctions on formal criteria, given their distribution in different parts of the grammar. Rather than a small number of forms serving many functions, Kalapalo has many forms serving overlapping functions, thus constituting an entirely different kind of categorical overlap than the one that e.g. Liljegren reports for Palula.

3 The relation between evidentiality, egophoricity, and engagement

How may we account for the overlaps discussed above? The conceptual overlap between categories is evident from a functionalist perspective, but how this corresponds to their semanto-pragmatic properties and distinct development requires further discussion. With respect to the development of markers belonging to the

categories that are the topic of the present volume, it is clear that the presence of pragmatically contingent components of meaning (e.g. inference as a token-feature of perfects) makes possible an eventual encoding of this implied feature to become part of the semantics of a form. This conventionalization of implicature (Levinson2000) is a driving force in grammaticalization processes more generally and we may observe this for epistemic marking, as well (see Bergqvist2018b). The aim of this section is to account for how implied meaning in the use of certain markers, suggests the relation between the investigated categories and the reason for the frequently attested overlaps between categories.

3.1 Cognitive access vs. (dis)claiming epistemic authority: evidentiality

The notion of evidentiality in language has been equated with providing justification for how information was acquired, i.e. the source of information that a speaker has for making an assertion about an event. Willett1988 is still a good starting point for an illustration of the basic semantic features and divisions relevant to evidentiality in a cross-linguistic sense:

There is an implicit expectation for the speaker to provide the highest form of evidence for an assertion, which produces a hierarchical relation in terms of strength of evidence. Direct evidentials conveying ‘visual’ access (i.e. ‘I know this from having seen it’) usually constitutes a stronger form of evidence than other sensory access (i.e. ‘I know this from having heard/felt/smelt it’). It is, however, important to note that states-of-affairs display variation in this regard. For example, olfactory evidence is more direct and reliable for a claim like ‘There must be a gas leak here somewhere’, and tactile evidence outranks visual evidence for claims such as ‘the water is hot’. In general, though, visual evidence ranks highest, a suggestion that is supported by the use of visual evidential forms to express participatory/factual evidence in some languages (see §3.2, below). For indirect evidentials, it is possible to argue that making an inference based on e.g. visual evidence (i.e. ‘I know this because I know/see what caused it’) is a stronger form of assertion than one based on report (i.e. ‘I know this because someone told me about it’). As stated above, inference and assumption are in principle very similar types of evidence, and both of them are classified as personal and indirect evidence by Plungian2010. However, these two evidence types differ from each other as regards their directness and reliability; inference is based on a more reliable (usually directly observable) evidence, while assumption is based on our general knowledge of the world (see the definitions offered by Plungian2010). We can also see that the hierarchical relation between direct and indirect evi-

dence in terms of strength may not always hold, since e.g. “folklore”, as a kind of reported evidential (i.e. ‘I know this from (our) oral tradition’), may be deemed a very reliable source despite the fact that no member of the speech community has direct access to the events portrayed.

Possibly the most thoroughly investigated aspect of evidentiality is reported speech⁵, which also corresponds to the “simplest” kind of evidential system where reported speech is the only evidential marker. Estonian exemplifies such a system with only a hearsay marker (see Aikhenvald2004 for details). But despite this emphasis on reported speech in the literature on evidentiality, a narrow conception of evidentiality as a verbal category tends to emphasize the role of direct perception (i.e. visual, auditory) in grammaticalized evidentiality systems. In de Haan2013’s (Haan2013) survey of evidential systems, however, systems that feature both direct and indirect evidentials are much less common than systems with only indirect evidentials. Evidential systems with only *direct* evidentials are not attested at all in the survey. From this cross-linguistic patterning, we may gather that the grammatical expression of evidentiality is primarily a means to signal indirect access to events, and that this indirect access sometimes is (explicitly) contrasted to direct access. In the default case (i.e. indirect access to an event), evidentiality is not so much a strategy to signal ownership of knowledge through some cognitive channel, but a disclaimer of epistemic authority as a consequence of restricted (i.e. indirect) sensory access (cf. Mushin2001).

Signaling indirect access to an event in terms of inference, or assumption, does not necessarily mean that there is a restriction present on the sensory access that a speaker has to the talked-about event. In data resulting from the use of an interactive elicitation task developed by Nick Evans and colleagues (described in SanRoqueetal2012), it is clear that explicit, visual representations of people, things, and events will prompt the use of inferentials and assumptives even in cases where such representations appear unambiguous (e.g. Quartararo2017). The simple fact that depicted events and people are outside of the speaker’s domain of epistemic authority, may be sufficient to warrant a more cautious approach to asserting such events by using indirect evidentials. The speaker may mark an event as being inferred from his/her point of view, rather than claiming direct perceptual access to the contents of the picture, possibly because such contents pertain to previously unknown characters in a fictional universe.

⁵This is an impressionistic claim that would be difficult to substantiate statistically given the (by now) vast literature on evidentiality. Reportive evidentials were, however, discussed as early as Jakobson1957 and has continued to occupy research on European languages as well as more cross-linguistically oriented research (see e.g. Boye2012).

Curnow2003 discusses the use of non-visual/indirect forms with first person subjects to produce unintentional/non-volitional readings of utterances (see Example 2b, below). Such interpretation effects are in line with the hypothesis that indirect evidentials function as disclaimers of epistemic authority. However, it is also possible to use evidentials to *claim* epistemic authority by means of direct evidentials. This may be a less prominent function of evidentials, but one that links evidentiality to egophoricity (see §3.2, below). Just like indirect evidentials may be used even in cases where the speaker has direct sensory access to a talked about event, so are direct evidentials sometimes used to signal other forms of access than their semantics may suggest (i.e. visual, auditory). One such form of access that may be signaled by the use of direct evidentials, is “(volitional) participation”. Participatory meaning in the context of evidentiality may result from the distribution of direct evidential forms with subject pronouns (i.e. first vs. third person), or they can constitute distinct forms that are part of paradigms alongside other direct forms that signal visual access to the referent (see Example 3, below). Examples of how the distribution of direct evidentials may produce participatory meaning according to subject person, is discussed by Curnow2002 (Curnow2002, citing Ramirez1997):

(2) Tucano

a. *bapá bope-ápi*

plate break-REC.PAST.NON3.VISUAL

‘I broke the plate (of my own will, e.g., because I was angry).’

b. *bapá bope-ási*

plate break-REC.PAST.NON3.NONVISUAL

‘I broke the plate accidentally (I didn’t see it on the table).’

Curnow discusses the examples from Tucano as an instance of interpretation effects resulting from the distribution of forms signaling a visual/non-visual contrast with first person subjects. Such effects are also reported for other languages and depending on what evidentials are present in each language, different effects may arise (see Curnow2002; Curnow2003 for details).

In Central Pomo, the evidential paradigm contains a form, *-la*, which denotes “personal agency” (Mithun1999):

(3) Central Pomo

da-ché-w=la

pulling-seize-PRF=PERSONAL.AGENCY

‘‘I caught it.’ (I know because I did it)

It should be noted that performative, or participatory, evidentials assume part of the function of person agreement, given the implied agency of a first person subject in such forms. Subject identity is not an encoded feature, however, and reference to the actions of third person subjects featuring performative/participatory forms may produce a factual reading that corresponds in epistemic status to participatory meaning when referring to events and actions involving the speaker. This means that factual events involving third persons may be marked in the same way as events involving one of the speech-act participants as a participant. BergqvistKittila2017 (BergqvistKittila2017; cf. Bergqvist2015) explores participation/involvement as part of evidential systems in order to place this notion against egophoric marking, in which volitional participation/involvement has been suggested as a defining notion (see directly below). One reason to make such a comparison relates to the ongoing debate on whether egophoric marking is a kind of evidential marker, or if egophoric marking constitutes a separate grammatical expression altogether. If “source of information” (Aikhenvald2004) is the preferred definition, then participation will be difficult to accommodate within such a definition (but see SanRoqueLoughnane2012 for a discussion). If viewed from the perspective of epistemic marking in language, more generally, then cognitive access to events must be situated against related means to signal access more broadly, including access from participation/involvement (see Bergqvist2017; cf. Boye2012).

3.2 Involvement and epistemic authority: egophoricity

Egophoricity is a recently proposed term for a form of epistemic marking that prototypically occurs with first and second person subjects in declarative and interrogative clauses, respectively (see SanRoqueetal2018, for a cross-linguistic overview). Egophoricity is also known as “conjunct/disjunct”-marking in the literature (e.g. BickelNichols2007), but competing terms also exist (see §1, above). Example (4) portrays the two combinations of subject person and sentence type that trigger egophoric marking in Kathmandu Newar (Hale1980). All other combinations of subject person and sentence-type produces non-egophoric marking (i.e. 1S+interrogative/2S+declarative/3S + any sentence type):

(4) Kathmandu Newar (Hale1980, [our adjusted glossing])

- a. *ji ana wanā*
 1S.ABS there go.EGO
 ‘I went there.’

- b. *cha ana wanā lā*
 2S.ABS there go.EGO INTERR
 ‘Did you go there?’

In addition to this distributional pattern, there are also restrictions on what verbs may take the egophoric marker. In Kathmandu Newar, only verbs that feature (volitional) agents are permitted. The contrast between verbs that denote volitional actions and ones that do not, is illustrated in (5) (Hargreaves2005):

(5) Kathmandu Newar

- a. *jī: jyā yān-ā*
 1.ERG work do-PST.EGO
 ‘I did the work.’
- b. *ji mhiga then-a*
 1.ABS yesterday arrive-PFV.ALLO
 ‘I arrived yesterday.’
- c. *jī: thul-a*
 1.ERG understand-PFV.ALLO
 ‘I understood (it).’

BergqvistKnuchel2017 take a broad approach to analyzing egophoric marking by outlining the boundaries of speech-act participant involvement in such systems. Although the volitional actions of a speech-act participant purportedly are a defining semantic component of egophoric marking, it has become increasingly clear that this is not the only kind of involvement that may trigger the use of an egophoric marker. Involvement as a basis for epistemic authority may in some instances target the affectedness, or even the attitude of a speaker/addressee (BergqvistKnuchel2017). Given that such an encompassing formulation of involvement is applicable to some egophoric markers, BergqvistKnuchel2017 propose that “epistemic authority” is actually the core semantic notion that may define egophoric marking against other forms of epistemic marking, such as evidentials and epistemic modals. Focusing on the notion of epistemic authority also bridges the gap to seemingly unrelated phenomena such as “ethical datives”, which share formal and functional features with egophoric marking, as described for a language like Standard Tibetan (see BergqvistKnuchel2017, for details). The involvement of a speech-act participant produces a kind of epistemic inalienability that permits the speaker to assign epistemic authority to him/herself, or the addressee without necessarily specifying what this involvement consists of.

The notion of epistemic authority may be conceptualized as a driving force in verbal interaction more generally and serves to situate information with respect to the speech-act participants. As such, it goes well beyond the use of egophoric markers in languages where this is an attested form of epistemic marking. For English (arguably a language without egophoric marking), the notion of epistemic authority may be seen in the correspondence between sentence-type and communicative function, an issue that has concerned speech-act theory since its formulation (Searle1969). Sometimes an assertion may function as a question in a communicative sense, and vice versa. In fact, the majority of polar questions in American English have the form of an assertion (Stivers2010; StiversRossano2010). In order to explain this apparent discrepancy, Heritage2012 argues that the notions, “epistemic status” and “epistemic stance” are key for understanding discrepancies between grammatical form and (social) action. Epistemic status, as an index of relative epistemic authority, is formulated with reference to the notion of A and B-events (Labov1977), where A-events are known only to the speaker (speaker authority) and B-events are known only to the addressee (addressee authority). Typical B-events include the addressee’s opinions, beliefs, and bodily states, but may also include his/her professional expertise. Heritage offers the following definition of epistemic status:

e can consider relative epistemic access to a domain as stratified between actors such that they occupy different positions on an epistemic gradient (more knowledgeable [K+] or less knowledgeable [K-]), which itself may vary in slope from shallow to deep [...]. We will refer to this relative positioning as epistemic status, in which persons recognize one another to be more or less knowledgeable concerning some domain of knowledge [...] (Heritage2012) (W)

The speaker’s epistemic stance can be congruent, or incongruent with the speaker’s epistemic status, as seen in the example, *you’re married*, provided by Heritage2012, which may be understood as a request for confirmation despite its assertive formulation, given that it pertains to the addressee’s marital status. A statement such as, *you’re sad*, using an assertive form, may be deemed incongruent to the speaker’s epistemic status, given that it must be regarded as K-, given the addressee’s, obvious epistemic authority over his/her own emotional states.

Speakers of any language continuously keep track of what others know and how their own knowledge can be related to the knowledge of others, and Heritage2012 offers us a detailed and empirically grounded picture of how this works in everyday conversation. Such assumptions most prominently involve the addressee

and explicit formulations of how the addressee’s perspective is attended to has received some attention in the field of discourse studies, notably in work by Ken Hyland1999 (e.g. Hyland1999; Hyland2001; Hyland2005). More recently, cross-linguistic research has led to the formulation of “engagement” as a bona fide epistemic category in some languages (see Evansetal2017a) and the relation between engagement and epistemic authority deserves to be explored in the definition of both notions.

3.3 Shared vs. non-shared access/rights to knowledge: engagement

Engagement consists of a contrast between the speaker’s assertion about the addressee’s knowledge of/attention to an event (*e*) as either *shared* or *non-shared* with the speaker. *I know e and I assume that you know e too*, is contrasted with, *I know e and I assume that you do not* (Evansetal2017a; cf. “complex perspective”, Evans2005; cf. “complex epistemic perspective”, Bergqvist2015; Bergqvist2016; Bergqvist2017). This semantic contrast may in principle concern any aspect of epistemicity, and is as such relevant for any form of epistemic marking (see below). Engagement targets “knowing” from a socio-centric perspective, where the speaker’s assertion contains an embedded assertion assumed to belong to the addressee. Such assumptions may be implied in the token-use of other forms of epistemic marking, but in a language with engagement as a category, this implicature has become encoded in forms to signal asymmetries in the knowledge/attention states of the speech-act participants.

In Kogi (Arwako-Chibchan; citealtBergqvist2016; cf. Ortiz1994), speakers can choose one of four auxiliary prefixes that encode engagement.⁶ These prefixes may be divided into two sets that take the speaker and the addressee as their respective starting points. A focus on the perspective of the speaker is found with *na-/ni-*, where *na-* means that ‘the speaker knows *e* and expects the addressee to be unaware of *e*’ (6a), and *ni-* means that ‘the speaker knows *e* and expects the addressee to know *e* too’ (6b) (Bergqvist2016):

- (6) Kogi
 a. *kwisa-té na-nuk-kú*
 dance-IMPF SPKR.ASYM-be.LOC-1SG
 ‘I am/was dancing.’ (informing)

⁶Bergqvist2015 (Bergqvist2015; Bergqvist2016; Bergqvist2017) discusses the Kogi system using the term “complex epistemic perspective” without arguing for a more general applicability of this term to similar systems and forms in the literature. Such applicability is, however, considered in Evansetal2017a (Evansetal2017a, Evansetal2017b) under the term engagement.

- b. *kwisa-té ni-nuk-kú*
 dance-IMPF SPKR.SYM-be.LOC-1SG
 ‘I am/was dancing.’ (confirming)

na-/ni- are in turn contrasted to *sha-/shi-*, which encode a corresponding distinction in terms of non-shared/shared knowledge from the addressee’s perspective. *sha-* means that ‘the speaker expects the addressee to know *e* while the speaker is unaware of *e*’ (7a), and *shi-* means that ‘the speaker expects the addressee to know *e*, and the speaker knows *e* too’ (7b) (Bergqvist2016):

(7) Kogi

- a. *nas hanchibé sha-kwisa=tuk-(k)u*
 1SG.IND good ADR.ASYM-dance=be.LOC-1SG
 ‘I am dancing well(?)’ (in your opinion)
- b. *kwisa-té shi-ba-lox*
 dance-IMPF ADR.SYM-2SG-be.LOC
 ‘You are/were dancing(?)’ (confirming)

shi-/sha- are used to signal the speaker’s acknowledgement of the addressee as primary knower, but at the same time encodes the speaker’s assertion (without reduced certainty) of a talked about event.

Engagement in Kogi may appear to be an exotic system in a little known language, but this notion echoes with well-known phenomena like modal particles in Germanic languages (Modalpartikeln). Descriptive accounts of cognates of the German *ja* (‘as you know’/‘of course’, Abraham1991), in Danish (*jo*, Davidsen1996), Norwegian (*jo*, Andvik1992) and Swedish (*ju*, Lindstrom2008) agree that reflexes of this form signals “available knowledge through shared experience” (Lindstrom2008, for Swedish).⁷ But although modal particles are relatively frequent in e.g. spoken Swedish (see Bergqvist2017), they are generally not viewed as part of core grammar, given their non-obligatoriness, weakly paradigmatic organization, and function as markers of discourse. Modal particles have an established (Eurocentric) descriptive tradition, but have recently been compared to analogous particles in non-European languages such as Chinese and Japanese (e.g. AbrahamLeiss2012).

⁷For Danish, Davidsen1996 argues that “*jo* signals that the hearer is assumed to be aware of and accept the states of affairs described [...]” (Davidsen1996). He notes that the notion of something being “familiar to the receiver” is subject to some variation, but that the semantic component of including the hearer’s perspective remains part of utterances featuring *jo* in Danish (Davidsen1996). For Norwegian, Berthelinetal note that the meaning of *jo* encodes that “the hearer and speaker both have access to all the evidence required for entertaining *p* as true”.

A continued exploration of modal particles by means of cross-linguistic comparison, will surely contribute to a more developed understanding of engagement as a linguistic category.

From the typological overview in **Evansetal2017b**, it is clear that engagement can combine with modals and evidentials and that the shared/non-shared contrast may fuse with such forms of epistemic marking. **Hintz2017** account for evidentials in Sihuas Quechua and argue that this language has developed two distinct sets of evidential markers, which feature an *-i/-a* alteration encoding individual/mutual knowledge, respectively. Papuan languages like Foe (**Rule1977**) and Angal (**Sillitoe2010**) also display engagement semantics fused with evidential forms that produce readings like “as I could see, but you could not”. **SchultzeBerndt2017** reports that markers of epistemic authority in Jaminjung (Mirndi, Australia) are contrasted according to whether epistemic authority is considered to be shared, or exclusive to one of the speech-act participants.

Ika, a language closely related to Kogi (above), features a version of egophoric marking that mirrors some of the semantic contrasts found in Kogi, but by way of a distinct system that signals the involvement of the speech participants in relation to their respective epistemic authorities (**Bergqvist2012**; **Bergqvist2018a**, **Bergqvist2018b**). The epistemic marking systems in Kogi and Ika shows how a functional pressure to assign epistemic authority to one, or both of the speech-act participants may produce distinct systems in closely related languages. Drawing on this comparison, **Bergqvist2018b** argues that any subjective evaluation/positioning may develop a sensitivity to whether this is shared with the addressee, or not, and that the possibility of such a development stems from the very nature of indexical reference.

An eventual typology of engagement must answer questions regarding its relevant dimensions of meaning, i.e. whether encoded (a)symmetries of knowing concern the assimilated knowledge of the addressee, or the speech-act participant’s respective rights to know in terms of epistemic authority. With respect to the diachronic development of engagement, this must be accounted for in the context of engagement being part of related functional categories, but also as a distinct grammatical expression.

4 Concluding thoughts and a view to the future

From the overview and discussion provided in this introductory chapter, it should be clear that evidentiality, egophoricity, and engagement are closely related notions that overlap in both form and function. The notion of epistemic authority

is argued to be central to a functional analysis of said categories, either as an underlying (largely implicit) motivation for the use of evidentials, or as a defining semantic component of egophoric marking. It may also be assigned to one, or both, of the speech-act participants by forms of engagement. The general role of epistemic authority as an integral part of the “epistemic engine” that drives verbal communication (Heritage2012) lends further support to idea that epistemic authority is a key concern for speakers engaged in conversation.

In order to explore epistemicity in language with this focus, interactive language data is required. The dialogic function of language was discussed as a defining feature of language already by Jespersen1922, but throughout the 20th Century this function all but disappeared from linguistic analysis (but see Givon2001; Halliday1973). Recently, dialogicity has come back on the agenda in research by DuBois2007 (DuBois2007; DuBois2014) and Evans2012, among others. A return to the dialogical features of language use and its consequences for grammar appears crucial to account for the ongoing exploration of epistemic marking strategies in languages everywhere.

Chapter 2

Epistemic primacy, Common Ground management and the epistemic perspective domain

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In this chapter, I discuss the epistemic discourse clitics attested in Upper Napo Kichwa, a Quechuan language spoken in the Ecuadorian Amazon. I show that contrary to how they have been described in other Quechuan dialects, in Upper Napo Kichwa the enclitic =*mi* and =*cha* should not be treated as evidentials, but as markers related to the (lack of) epistemic authority/primacy, i.e. origo's relative right to know a certain piece of information. I also demonstrate that although Quechuan evidentials have previously been analysed as focus markers, this analysis, too, cannot be sustained for Upper Napo Kichwa, where the markers in question are associated with focal constituents, but cannot be said to “mark” focus.

With examples from a corpus of Upper Napo Kichwa monolingual discourse, I show that the epistemic primacy semantics plays a role in management of Common Ground in interaction. I show that by using the two enclitics, speakers can indicate whether or not at a given point in interaction the information they convey should be integrated into Common Ground. In order to generalise this analysis, I propose situating linguistic items dedicated to Common Ground management, such as =*mi* and =*cha*, within the cross-linguistic functional domain of epistemic perspective.

Keywords: evidentiality, epistemic primacy, Common Ground, Quechua, Kichwa



1 Introduction

This chapter explores the meaning and functions of *=mi* and *=cha* in Upper Napo Kichwa¹, an under-documented Quechuan language spoken in the Ecuadorian Amazon. In other Quechuan varieties described to date, these two enclitics have been analysed as direct and inferential/conjectural evidentials, respectively. As I show in this chapter, in Upper Napo Kichwa, they are more adequately analysed as markers of epistemic primacy (*=mi*) or lack thereof (*=cha*). That is, they indicate the origo's (lack of) "relative right to know or claim" (Stivers2011). Moreover, the markers form part of a larger paradigm of free enclitics loosely associated with focal status of the constituents they attach to.

By way of introduction, I outline the facts underpinning the research presented here, providing an overview of the research objectives (1.1), giving background information on the language under study and describing the data collection methods as well as the resulting corpus (1.2), and defining the notions used in my analysis (1.3).

In the ensuing sections, I discuss the Upper Napo Kichwa paradigm of discourse enclitics (§2) and the previous analyses of the markers *=mi* and *=cha* (§3). Following on from that, I discuss the markers' semantics and functions in discourse (§4). Consequently, I propose a unified analysis of the different aspects of meaning of the two enclitics (§5) and integrate this proposal with a cross-linguistic framework for description of epistemic marking systems (§6). Finally, I provide some conclusions and suggestions for further research (§7).

1.1 Research objectives

The main objective of this chapter is to spell out the epistemic primacy analysis of *=mi* and *=cha* in detail, and to explain how the markers interact with focus. Furthermore, I aim to show how through fulfilling both these functions – marking epistemic primacy, and association with focal status of referents – the enclitics in question contribute to the management of Common Ground in Upper Napo Kichwa discourse. Consequently, I show the cross-linguistic relevance of this analysis, discussing the possible place of *=mi* and *=cha* within the "domain of epistemic perspective" (Bergqvist2017).

¹Upper Napo Kichwa is one of the varieties of Ecuadorian Amazonian Kichwa. In my previous work (e.g. Grzech2016a, Grzech2016b) I have been referring to the same variety with the name "Tena Kichwa".

1.2 Language and research background

Before I proceed to the description of the enclitics =*mi* and =*cha*, it is in order to provide some background on the language which I analyse here. Upper Napo Kichwa is a Quechuan language of the QII subgroup, spoken in the province on Napo, in the Ecuadorian Amazon. The different sources estimate the number of its speakers between 20,000 (**Ethnologue2016**) and ca. 46,000 (**INEC2010**).

Upper Napo Kichwa belongs to the dialectal grouping of Amazonian Kichwa, and is but one of several Quechuan varieties spoken in Ecuador. Although Quichua² is recognised by the Ecuadorian constitution as the “official language of intercultural relations” (**ANCE2008**), the legislation and resulting policies on the national level fail to recognise the existence of multiple Quechuan languages within Ecuador. Instead, the focus is on Unified Kichwa - an official, “standard” variety created in the 1980s with the view of providing a single, official orthography for all Quechuan dialects spoken in Ecuador. Unified Kichwa is used in Spanish-Kichwa bilingual education across the country, and its knowledge is required of all teachers of Kichwa, even if they are native speakers of other varieties. It has become the prestige variety of the language, and is adopted by speakers of other varieties for official purposes, including use in administration and cultural activities (cf. e.g. **Wroblewski2014**). Consequently, its official status contributes to the weakening, rather than strengthening of the regional varieties (cf. **Hornberger1996**; **Grzech2017**).

The assessments of the vitality of Upper Napo Kichwa have delivered varying outcomes. While **Ethnologue2016** claims the language is “vigorous”, **Moseley2010** evaluates it as “seriously endangered”. Such discrepancy arises most likely due to the fact that **Ethnologue2016** does not take into account the difference between Unified Kichwa and Upper Napo Kichwa (cf. **Grzech2017**). Participant observation I carried out in 2013 and 2014 suggests that while Upper Napo Kichwa is not yet seriously endangered, this might be the case within a generation. In the communities where I conducted fieldwork, the last generation who uses Upper Napo Kichwa in all social contexts are people around the age of 30. Teenagers have passive knowledge of the language, but tend to communicate with each other in Spanish, and small children are generally spoken to in Spanish, and use the language amongst themselves. Nonetheless, my main field site was relatively well connected to the provincial capital, and it is likely that the language is faring

²In Ecuador, the term *Quichua* is preferred over *Quechua*. I use the name *Quichua* when referring to Ecuadorian *Quechua* in general, but for the name of the language with which this chapter is concerned, I use the newer orthography, hence writing it *Kichwa*. This orthography is the one most widely used by the members of the community I work with.

better in more secluded settlements (Arthur Cognet, p.c.).

In terms of its morphosyntactic characteristics, Upper Napo Kichwa exhibits a number of features typical of the Quechuan language family. It is agglutinative, exclusively suffixing, and the two main word classes are verbs and nominals, characterised by differing patterns of inflection. In Quechuan languages the dominant word order is generally SOV, but some studies also characterise them as discourse-configurational (cf. Muysken1995). A preliminary study of the Upper Napo Kichwa word order suggests that in this variety the orders SOV and SVO are equally permissible (cf. Grzech2016a). Moreover, the language is characterised by less morphological complexity than most other described Quechuan dialects (cf. Adelaar2004); for instance, similarly to other Ecuadorian varieties, e.g. Imbabura Quichua (Cole1982), Upper Napo Kichwa only exhibits residual object agreement marking on the verb.

The data on which this research is based were collected during ten months of language documentation fieldwork in 2013 and 2014. My main field site was the village of Nuevo Paraíso, situated on the bank of the Napo River, about fifty kilometres west from Tena, the capital of the Napo Province. Nuevo Paraíso is accessible by river and by a dirt road. Buses to and from Tena pass through Nuevo Paraíso several times a day, and the journey takes about two hours. As of September 2014, 53 associates (Spanish: *socios*) lived in the village, most of whom were heads of families. In Kichwa communities, families are formed by parents, unmarried children, and sometimes also widowed grandparents. They range in size from three to about ten people, the average number of children per family in this particular community being around five.

The corpus I used for this research comprises two parts: an eleven-hour corpus of naturalistic Upper Napo Kichwa discourse, and a two-hour corpus of elicited discourse. Both parts of the corpus were recorded on audio and video, transcribed in Upper Napo Kichwa and translated into Spanish. In addition, the elicited discourse corpus was also parsed and annotated with morpheme-by-morpheme glosses.

The naturalistic discourse part of the corpus consists of recordings of communicative acts characterised by different degrees of spontaneity, ranging from everyday conversation, through storytelling, to recordings of community events and political discourse. The elicited discourse corpus includes “staged communicative events” (Himmelman2006): discourse resulting from presenting consultants with video and/or picture stimuli, or asking them to perform specific tasks. The stimuli I used to collect this part of the corpus included e.g. the “Pear story” video (Chafe1980), and the tasks for two consultants from the “Question-

naire on information structure” (Skopeteas2006). These type of tasks allow for obtaining naturalistic parallel data (SanRoque2012), and for comparing constructions used by various speakers in the same discourse situation. They also permit the researcher to control what information is, and is not, shared between discourse participants – a task unattainable in case of naturalistic discourse.

The documentation project was carried out in collaboration with a team of Kichwa researchers: Nilo Licuy, Jacobo Chimbo, Wilma Aguinda and Edwin Shiguango. Transcriber and translator Sofia Alvarado also contributed to the corpus. The members of the research team selected the topics to be documented, as well as the participants for the interviews. They also worked as camera and sound operators, interviewers, transcribers and translators (for more details on collaborative documentation, cf. Grzech2016a).

1.3 Definitions

As stated previously, the main objective of this chapter is to explore the meaning and discourse functions of the Upper Napo Kichwa enclitics =*mi* and =*cha*, which I analyse as markers of the origo’s epistemic primacy, or lack thereof. In order to provide their description, I first define the basic notions used in the analysis sections of this chapter. First, I discuss evidentiality and epistemic primacy, and briefly acquaint the reader with the domain of epistemic perspective. Then I focus on the notions pertinent to information structure, necessary for the adequate description of =*mi* and =*cha*: focus and Common Ground.

1.3.1 Evidentiality

Although I do not analyse the Upper Napo Kichwa enclitics as evidential markers, the notion of evidentiality is mentioned frequently throughout the chapter, and therefore also needs to be clarified. I understand evidentiality in the “narrow” sense of the term, as the linguistic coding of the source of information (cf. e.g. Willett1988; Nikolaeva2000; Dendale2001; Aikhenvald2004) or “mode of access” (e.g. GonzalezRuiz2016). Under this view, the source of information on which a proposition is based is independent of the speaker’s beliefs about the veracity of that proposition; Evidentiality marks the source of information on which a proposition is based, while epistemic modality evaluates the likelihood that this proposition is true (Cornille2009, cited in Fetzer2014). Nonetheless, the evidential and modal meanings are often hard to separate (Palmer2001), and cross-linguistic evidence shows that evidential and epistemic modal meanings can be encoded by the same set of markers (Willett1988).

Narrowly defined evidentiality and epistemic modality have also been regarded as two sub-types of the category of EPISTEMICITY (Boye2012). According to this approach, both evidentiality and epistemic modality provide JUSTIFICATORY SUPPORT for propositions. Evidential expressions provide EPISTEMIC JUSTIFICATION, which can be either direct or indirect. Epistemic modal expressions, in turn, provide EPISTEMIC SUPPORT, which can be full (certainty), partial (probability) or neutral (lacking epistemic qualification) (cf. Boye2012). The term EPISTEMIC MEANING is used in this chapter in a broader sense than this adopted by Boye2012; Following Bergqvist (2017), I see both evidentiality and epistemic modality as sub-domains within the EPISTEMIC PERSPECTIVE DOMAIN, which I discuss in more detail in §1.3.3, after introducing other notions necessary for its understanding.

1.3.2 Epistemic primacy

Another notion indispensable for the accurate description of the two Upper Napo Kichwa enclitics discussed here is EPISTEMIC PRIMACY (Stivers2011). It can be conceptualised, alongside evidentiality, as related to the dimensions of knowledge in interaction (cf. Stivers2011), presented in Table 2:

Table 1: Dimensions of Knowledge

i.	Epistemic access	(knowing vs. not knowing/ types of evidence/degree of certainty)
ii.	Epistemic primacy	(relative right to know/claim, authority of knowledge)
iii.	Epistemic responsibility	(obligations/rights to have information)

The three dimensions listed above correspond to the different “levels” on which knowledge can be grounded in conversation. Evidentiality clearly falls within the dimension of epistemic access, since it relates to the type of evidence. Epistemic modality also falls within that domain, as related to the degree of certainty.

Epistemic primacy is more subjective³ than epistemic access; While epistemic access is concerned with the relationship between the proposition and the origo, epistemic primacy has to do with the distribution of knowledge between participants of the speech event. Epistemic primacy is the asymmetry “in the depth, specificity or completeness of their [speech act participants’] knowledge” (Stivers2011).

³Subjectivity can be defined as “(...) the way in which natural languages, in their structure and their normal manner of operation, provide for the locutionary agent’s expression of himself and his own attitudes and beliefs” (Lyons1982). Understood in this manner, subjective expressions index the attitudes or viewpoint of the speaker.

Consequently, making of epistemic primacy is grounded in the subjective assessment of the origo's knowledge state rather than in the relationship of that knowledge to the discourse-external world. In the literature, epistemic primacy is often used interchangeably with EPISTEMIC AUTHORITY (cf. e.g., Grzech2016a; Garcia-Ramon2018). Nonetheless, an important distinction can be made between those notions: epistemic authority is not relative, although it can be gradable: one possesses it if one knows something, although it is possible to know more or less about the matter at hand. Epistemic primacy, on the other hand, is a relative notion which can only be established in context.⁴ Epistemic authority one might have over a certain matter only allows one to claim epistemic primacy with respect to interlocutors who know less than one does. While epistemic primacy/authority often arises as a result of having the best possible type of evidence for the information in question, or being certain that the proposition is true, it need not be grounded in direct evidence or certainty.

The third domain – EPISTEMIC RESPONSIBILITY – is related to the information that the speaker has an obligation or a right to know. For instance, it is expected of everyone to know their own name, etc. On the other hand, there is information about other people, their internal states and experiences, or private affairs, about which their interlocutors do not have a responsibility, or even right, to possess knowledge. I will not devote more attention here to this last domain, (see Grzech2016a for a more detailed discussion), as it is only relevant to the analysis presented here inasmuch as the domains of epistemic primacy and epistemic responsibility correlate with one another. It should be expected that if the origo has an obligation/right to know a certain piece information, she is also likely to have epistemic authority over it.

1.3.3 Epistemic perspective

The dimensions of knowledge discussed above relate mainly to the origo, and to the extent to which she can know, or claim to know, a piece of information. The only reference to the interpersonal aspect of communication in Table 1 is the observation that epistemic primacy is “a *relative* right to know or claim”. The relative nature of epistemic primacy suggests that the origo's interlocutor and his state of knowledge should also be taken into account by the speaker when she chooses to use a given marker of epistemic primacy.

In line with this observation, Bergqvist2017 proposes to analyse evidential-

⁴Thank you to Amparo García-Ramón for the discussion which helped me clarify this distinction.

ity and other epistemic marking systems within the functional domain⁵ of EPIS-
TEMIC PERSPECTIVE, encompassing not only the relationship of origo to the infor-
mation, but also distribution of information between the speech act participants.
Proposing the existence of the domain of epistemic perspective is based on two
assumptions: (1) that evidentiality and related systems share a *functional space* in
the grammar of languages in which they occur; (2) that these epistemic marking
systems allow the speaker to adopt different perspectives with respect to both
information, and interlocutors Bergqvist2017. Consequently, the domain can be
divided into different subdomains of epistemic meaning, stratified according to
the level of (inter)subjectivity⁶ they express. Figure 1 shows this stratification:

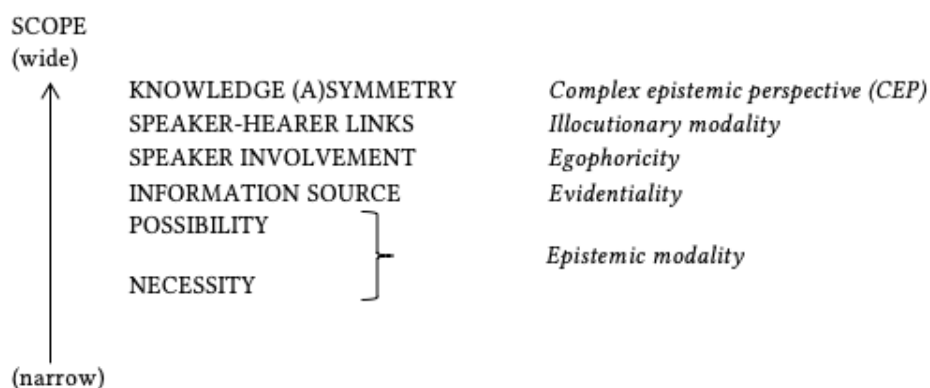


Figure 1: Dimensions of the epistemic perspective domain (after Bergqvist2017)

As mentioned above, the notion of *epistemic perspective* points to the fact that all the categories shown in Figure 1 are to some extent concerned with marking the different dimensions of epistemic access of the participants of discourse. From bottom to top, the different epistemic marking systems shown on the right-hand side are organised from the least to the most intersubjective. On the left-hand side, Figure 1 shows the different functional domains corresponding the epistemic marking systems shown on the right. The arrow corresponds to the

⁵Bergqvist2017 uses the term FUNCTIONAL DOMAIN coined by Givon1981; functional domains are conceptual structures which and can overlap with one another, and encompass several levels of meaning (Bergqvist2017).

⁶Subjectivity was defined in Footnote 3 above. Intersubjectivity relates to the speakers' "acknowledgement of and attention to the addressee" (Traugott2010). Consequently, intersubjective expressions take into account the attitudes of, or distribution of knowledge between, the speaker and the addressee.

levels of meaning, based on the assumptions that the categories at the bottom of the scale encode more propositional meaning, and hence have narrower scope, and the categories towards the top encode non-propositional meaning. The marking of complex epistemic perspective refers to the fully intersubjective systems, in the encoding of which the perspectives of both participants of the interaction are equally important. The composition of the domain presented in Figure 1 is based on a preliminary cross-linguistic survey, including the grammatical categories attested in a sample of languages which exhibit the exemplified epistemic marking systems (Bergqvist2017).

The number of functional sub-domains – and corresponding grammaticalised marking systems – is bound to increase if other languages are taken into account. Examples of such systems could include the marking of engagement (cf. e.g. Landaburu2007), information status of discourse participants (cf. SanRoque2008), or the marking of epistemic primacy, discussed at length in this chapter. In Japanese, epistemic primacy is encoded by dedicated morphology, namely the marker *yo* (Hayano2011). In the following sections, I show that epistemic primacy is also morphologically marked in Upper Napo Kichwa, where the distribution of epistemic authority between speaker and hearer is encoded by *=mi* and *=cha*. Therefore, at least for certain languages, including Upper Napo Kichwa, epistemic primacy should be considered one of the *functional sub-domains* within the overarching domain of epistemic perspective.

1.3.4 Common Ground and focus

The remaining notions that need to be explained before I proceed to the analysis of the Upper Napo Kichwa enclitics *=mi* and *=cha* are Common Ground and focus, both pertinent to the study of information structure. I define them in turn below. The readers should keep in mind that the definitions provided here are not meant to tackle the conceptual complexity of the discussed notions in full detail. Rather, they are meant to provide basic definitions, so as to allow for a consistent, clear interpretation of the analysis presented in the following sections.

COMMON GROUND (henceforth CG) consists of information which is mutually known to be shared by the discourse participants (cf. e.g., Stalnaker1974; Clark1996). This information includes discourse referents interlocutors are familiar with, and ‘a set of propositions which the participants in the conversation mutually agree to treat as true for the purpose of the exchange’ (Stalnaker1978). CG constantly develops over the course of communication, and Krifka2007 points out that there are two aspects of CG relevant to communication: CG CONTENT, which includes all the truth-conditional information within the CG, and CG MAN-

AGEMENT, which indicates the way in which CG content should develop. Both CG content and CG management are shared between discourse participants. The aspects of information structure (henceforth IS) that have truth-conditional impact can be associated with CG content, and those relating to the pragmatic use of expressions – with CG management (Krifka2007). Over the course of this chapter, I show that Upper Napo Kichwa discourse enclitics contribute to CG management, rather than to CG content.

As mentioned above, CG develops constantly in the process of communication. For this to occur, utterances need to contain not only information already known to both interlocutors, but also information known to the speaker, but new to the hearer, so that it can be added to CG in the process of communication. However, there are cognitive constraints on how much new information can be conveyed at a time. According to the ONE NEW IDEA CONSTRAINT (Chafe1987; Chafe1994), for processing reasons, every clause in connected discourse can contain only one concept which falls under the scope of assertion: the focus of the clause. Clauses also contain presupposed content, and within it, expressions denoting referents the clause is about (cf. Lambrecht1994). In IS terms, such a referent is the topic of the clause. Both topic and focus are relational notions. That is, no referent is inherently focal or topical. Rather, the topic or focus relation arises between discourse referents and propositions as a result of the speaker's strategy of CG management.

2 Upper Napo Kichwa discourse enclitics: the paradigm

In this section I present the morphosyntactic paradigm of Upper Napo Kichwa discourse enclitics, of which both =mi and =cha form part. As mentioned in §1.2, Upper Napo Kichwa is an exclusively suffixing language. Consequently, all the clitics found in the language are in fact enclitics. Moreover, all the enclitics attested in Upper Napo Kichwa are free, that is, they attach to hosts from any grammatical category, as long as their hosts function as phrasal heads.⁷

The presence of free enclitics is attested in all described Quechuan varieties (cf. e.g., Parker1969; Cole1982; Weber1986; Cusihuaman1976), but most authors do not grant them a comprehensive description, focusing only on a few selected markers. In the Upper Napo Kichwa data collected to date, as many as fifteen free enclitics were attested (cf. Grzech2016a). Of those, nine were identified as DIS-

⁷In §1.2, I mention that Upper Napo Kichwa has two main grammatical categories, nouns and verbs. Nonetheless, members of minor word classes, e.g., adverbs, can also function as phrasal heads/hosts for enclitics in Upper Napo Kichwa.

COURSE (EN)CLITICS, that is, defined by **Spencer2012**) as clitics which express discourse functions, rather than inflectional categories. The occurrence of discourse enclitics is not conditioned by grammar, and hence no contexts were identified in which their occurrence would be required for the syntactic well-formedness of the clause. Rather, they are used to enhance discourse coherence by encoding “cues for interpretation, (...) emphasis, rhetorical effects, or the attitude of the speaker” (cf. **Spencer2012**). Of the nine discourse enclitics in Upper Napo Kichwa, one, namely *=ga*, seems to be associated with presupposed information (cf. **Grzech2016a**). The remaining eight markers – among them the two enclitics described in this chapter – associate with focal referents. These eight enclitics, along with their previous analyses, are listed in Table 2.

Table 2: Focus-related discourse enclitics in Upper Napo Kichwa

=mi	Validational (e.g., Cole 1982), Direct evidential (Weber 1986; Floyd 1997; Faller 2002), Best possible ground marker (Faller 2002), Focus marker (Muysken 1995; Cusihuamán 1976/2001; Sánchez 2010; 2015)
=ma	Emphatic equivalent of <i>=mi</i> (Cole 1982) Direct experience marker (Hintz & Hintz 2014) Marker of surprise (Faller 2002) Impressive/emphatic marker (Cusihuamán 1976/2001)
=mari	Emphatic equivalent of <i>=mi</i> (e.g., Cole 1982; Floyd 1997; Faller 2002)
=cha	Validational (Adelaar 1977; Cole 1982), Inferential/conjectural evidential (e.g., Weber 1986; Floyd 1997), Inferential/conjectural evidential and epistemic modal (e.g., Faller 2002).
=chari	Emphatic equivalent of <i>=cha</i> (e.g., Faller 2002)
=chu	Negation and polar question marker (e.g., Cole 1982; Weber 1989; Cusihuamán 1976/2001)
=ta	Possible cognate of question marker <i>-taq</i> (cf. Weber 1989).
=tá	Not attested in other varieties / Verum focus marker

All of the enclitics listed in Table 2 occur on focal referents, and attach to their hosts word-finally, following all the inflectional morphology. However, apart from being associated with focus, they also play different roles in Upper Napo

Kichwa discourse. For the sake of space, this chapter only concentrates on two of the markers listed above, *=mi* and *=cha*.

As mentioned above, all the Upper Napo Kichwa enclitics are syntactically non-obligatory, and the same applies to the two markers in question. In the parsed-and-glossed part of the Upper Napo Kichwa corpus, comprising 1537 turns, *=mi* occurred in 5.9% of the turns (n=96), and *=cha* was even less frequent, occurring in 2.15% of turns (n=33). This low frequency suggests that despite their association with focus, other discourse-related factors are decisive when it comes to the markers' use in discourse. In the following sections, I explore these factors, including their epistemic primacy semantics and their role in CG management.

3 Quechuan evidential enclitics and the Upper Napo Kichwa “evidential” paradigm

As mentioned in the previous sections, in most other varieties of Quechua described to date, *=mi* and *=cha* are analysed as evidential markers encoding direct and conjectural/inferential evidence, respectively. In this section, I present the Quechuan evidential paradigm (3.1) and present the analysis of *=mi* and *=cha* in other Quechuan varieties (3.2), so as to contextualise the analysis of the Upper Napo Kichwa markers presented in §4 and §5.

3.1 The Quechuan evidential paradigm

Apart from the two markers described in this chapter, the evidential paradigm found in most Quechuan varieties also contains a third marker, encoding reportative evidence. This three-choice system is illustrated in (1) below with data from Cuzco Quechua, spoken in Peru (adapted from Faller2002):

- (1) Cuzco Quechua⁸
- a. Direct/Best possible ground⁹ *=mi*
Parashanmi.
para-sha-n=**mi**
rain-PROG-3=**MI**
'It is raining.' [speaker sees that it's raining]

⁸Language names are only included in examples from languages other than Upper Napo Kichwa.

⁹I explain the notion of 'Best possible ground' below.

- b. Inferential/conjectural = *chá*
Parashanchá.
 para-sha-n=**chá**.
 rain-PROG-3=**CHÁ**
 ‘It is raining.’ [speaker conjectures that it’s raining]
- c. Reportative = *si*
Parashansi.
 para-sha-n=**si**.
 rain-PROG-3=**SI**
 ‘It is raining.’ [speaker was told that it’s raining]

The paradigm shown in (1) is attested in most described Quechuan languages. However, some varieties diverge from it, offering the speakers more choices. South Conchucos Quechua (QI) is reported to have five evidential markers (Daniel J. DanielHintz2012; Hintz2014). Six markers have been described for Sihuas Quechua (QI) (Dianne DianneHintz2012; Hintz2014) and Huamalíes Quechua (Howard2012), both closely related to South Conchucos. In these varieties, the speaker’s choice of evidential is influenced not only by the type of evidence, but also by the distribution of knowledge between discourse participants. All these systems have the direct, indirect and reportative markers. In addition, South Conchucos has markers asserting mutual knowledge and indicating shared conjecture (Hintz2014). Sihuas has a system of three contrastive pairs, indicating the distinctions between individual and mutual knowledge, individual and shared conjecture and individual knowledge from report vs generalised knowledge from report (Hintz2014). In Huamalíes, the non-standard markers indicate speculation, affirmation of knowledge co-constructed by the speaker and the hearer, and negation of such knowledge¹⁰ (Howard2012). In the above systems, the markers do not correspond strictly to source of information – the use of INDIVIDUAL VS SHARED KNOWLEDGE MARKERS is also influenced by the speaker’s opinion about whether she has epistemic authority over the information conveyed (Hintz2014). Epistemic authority in particular is relevant to the description of the ‘evidential’ markers in Upper Napo Kichwa, as I show in §4.

In the varieties discussed above, the evidential paradigm consists of three or more markers. However, in some varieties, including Imbabura Quechua (QII)

¹⁰In Howard2012’s (Howard2012) terms, co-constructed knowledge results from the exchange of information between the speaker and the addressee. This is different from Hintz2014’s (Hintz2014) ‘shared knowledge’, understood as knowledge shared by participants, acquired either through a linguistic exchange, or through a shared non-linguistic experience. The latter understanding is more in line with widely accepted definitions of Common Ground.

(Cole1982), spoken in the Ecuadorian Highlands¹¹, and Upper Napo Kichwa, described here, reports are marked periphrastically by means of the verb *ni-* ('say') rather than by the use of a dedicated marker. Interestingly, the reportative marker is attested in Pastaza Quichua (QII) (Nuckolls1993; Nuckolls2012), which is related to Upper Napo Kichwa more closely than the highland Imbabura variety.

In the Upper Napo Kichwa data, the reportative marker seems to have been replaced by a periphrastic construction, whereby the verb of speech *ni-* ('say') is used in all hearsay/reportative contexts as a marker of reported speech, and the speech complements are often marked by the enclitic *=mi* (see examples (5) in §3.2 and (21) in §6). Given that the reportative enclitic is not attested in the Upper Napo Kichwa data, I limit the discussion here to the direct and conjectural/inferential markers.

3.2 Analyses of *=mi* and *=cha* in other Quechuan varieties

The analyses of *=mi* as a direct evidential in different dialects of Quechua point to the fact that it can mark propositions for which the origo has direct, sensory evidence. However, a broader definition of the marker's semantics was proposed by Faller2002, in order to reflect the fact that the direct/sensory access analysis cannot account for all uses of *=mi* in Cuzco Quechua (QII). Faller2002 analysed *=mi* as the marker of BEST POSSIBLE GROUND (henceforth BPG). BPG corresponds to direct evidence if the information in question belongs to the speaker's own life experience. However, in case of encyclopedic knowledge, which tends to be learnt from authority rather than through direct experience, the BPG can correspond to reportative evidence. Under Faller2002's view, having the best possible source of information is a necessary, but not sufficient condition for making a *=mi*-marked statement. In order to felicitously use *=mi*, the speaker needs to have the BPG for making a statement. To have the BPG, apart from having the best possible source of information, the speaker also needs to have assimilated the proposition into his network of beliefs (Faller2002).

As for *=cha*, the marker has previously been analysed as a "conjectural" (Weber1986; Faller2002), "inferential" (Floyd1997) or "dubitative" (Muysken1995) marker in the different Quechuan varieties. Despite the different labels, in all the varieties for which it has been described, the marker is reported to cover indirect evidence based both on reasoning and conjecture. Floyd1997 analyses the meaning of the Wanka Quechua *-chr(a)* as prototypically indicating that a given utterance is an

¹¹Cole1982 observes that while the marker *-shi* is attested in Imbabura, it seems to have undergone semantic shift from marking hearsay to marking speculation.

inference. According to **Floyd1997**, the prototypical meaning of the marker is “attenuation in the domain of commitment”, which “equates non-incorporation into reality (...) and is encoded in terms of likelihood values” (**Floyd1997**). He further claims that the non-prototypical uses of *=chr(a)* have to do with attenuation in other domains, including e.g., the “psychological distance between the hearer and the proposition”.

Although **Floyd1997** does not explicitly refer to epistemic modality, the fact that he analyses the marker as encoding commitment to the likelihood of propositions amounts to an evidential/modal analysis, which is the one that **Faller2002** (**Faller2002**; **Faller2007**) proposes in her work on Cuzco Quechua (QII). According to Faller, the conjectural marker is the only CQ evidential that is both an evidential and an epistemic modal. The evidential meaning of *=chá* is to indicate that the speaker “bases his or her statement on a mental process”, be it inference, conjecture, guesswork or any other process involving reasoning (**Faller2002**). However, if the speaker bases her statement on partial direct evidence, *-chus hina* – a marker which occurs in complementary distribution with other evidential enclitics (**Faller2006**) – is preferred over *-chá*. Consider the following example from Cuzco Quechua:

(2) Cuzco Quechua

- a. *?Unqusqachá kashanman.*
unqu-sqa-chá ka-sha-n-man
sick-PRT-CONJ be-PROG-3-COND
‘She may be sick.’ [Context: Marya looks very pale.]
- b. *Unqusqachus hina kashanman.*
unqu-sqa-chus hina ka-sha-n-man
sick-PRT-RES be-PROG-3-COND
‘She appears to be sick.’ (Faller 2007: 4)

The marker *-chus hina/chu shina* means roughly ‘I guess’/‘I think’/‘apparently’ (**Faller2006**). In Cuzco Quechua, *-chá* cannot be used if the speaker is certain that the proposition is true or false, even if she arrived at that conclusion through reasoning (**Faller2007**). This supports the epistemic modal analysis of *-chá*. For a *-chá*-marked proposition to be felicitous, the speaker needs to believe in the possibility that the proposition expressed is true, as well as having arrived at that belief by her own reasoning.

The analyses of *=mi* and *=cha* presented above cannot be applied to their Upper Napo Kichwa cognates. In the case of *=mi*, neither the ‘direct evidential’ nor the BPG analysis account for all uses of the marker. The following examples show

that the marker can be used in statements based on different evidence types, including direct/visual source of information, as in (3), inference or conjecture, as in (4) and (5), or reportative evidence, as in (6):

- (3) Direct/visual

Tamyawmi.

tamya-w=**mi**

rain-PROG=**MI**

‘It is raining’ [uttered while observing the rain]. [el_21092014_01 003]

- (4) Inference/conjecture

[Cesar] *mingamami* *rishka.*

[Cesar] minga-ma=**mi** ri-shka

[Cesar] collective.work-DAT=**MI** go-ANT

‘[Cesar] went to the minga’ [the speaker has just arrived at C’s home. C. is not there, it’s the day of the minga, and the speaker knows C. always participates in community events] [el_21092014_01 051]

- (5) Inference/conjecture

Ñuka yaya shamuwmi yachin.

ñuka yaya shamu-w=**mi** yachi-n

1SG father come-PROG=**MI** seem-3

‘It seems my father is coming.’ [speaker hears footsteps outside, and was expecting his father to come] [el_21092014_01 035]

- (6) Reportative evidence

Rimawanun Saida ungushkami sirik nisha.

rima-wa-nun Saida ungu-shka=**mi** siri-k ni-sha

say-1OBJ-3PL NAME fall.ill-ANT=**MI** stay-NMLZ say-COREF

‘They tell me Saida is ill.’ [el_25092014_01 113]

Example (3) can easily be reconciled with the both the direct evidential and the BPG analysis of =*mi*. Example (6), where =*mi* is used within a reportative construction, could indicate that in this case =*mi* can be analysed as a marker of BPG, as the fact which the speaker reports is not accessible to him directly, and thus the best possible evidence is that of a verbal report. However, according to the analyses presented above, examples (4) and (5) could not be marked by =*mi* in any of the varieties of Quechua discussed there. Rather, they would be marked

by =*cha*, as in both cases the speaker arrives at the proposition expressed by the utterance by reasoning. Moreover, as shown below, the Upper Napo Kichwa =*mi* is also felicitously used when the speaker cannot be certain of having the BPG:

- (7) Guesswork / Inference based on partial evidence

Lluki puramami rin, llukipurama...

lluki pura-ma=**mi** ri-n lluki-pura-ma

left side-DAT=**MI** go-3 left-side-DAT

‘[the seed] goes to the left, to the left’ [el_03102014_01 076]

The utterance in (7) comes from an elicitation session during which two participants watched recordings of a magician performing six games of a three-shell game. In case of each game, they first watched it without the final part in which the location of the seed was revealed, and were asked to guess where the seed was. After they took their guesses, the same game was re-played again, this time with the finale, so that the participants could confront their guesses with reality.¹² The participant who uttered (7) was guessing the location of the seed. He had already made several attempts at guessing where the seeds were located, each of them failed. Thus, the use of =*mi* in (7) cannot be explained by the speaker’s certainty of having the BPG for the proposition. In §4, I demonstrate that conversely to the direct evidence/BPG analysis, the epistemic primacy analysis of =*mi* can account for all the examples given above.

The Upper Napo Kichwa =*cha* also does not lend itself well to the analyses proposed for its cognates. If it was in fact a conjectural/inferential marker, we would expect to find it in examples such as (4) and (5) above, which are, however, marked by =*mi*. Moreover, =*cha*-marked statements, when presented without further context, are always interpreted as interrogative, rather than declarative utterances. Consider:

- (8) a. #*Tamiashkacha*.

tamia-shka=**cha**

rain-ANT=**CHA**

Intended meaning: ‘It rained/It must have rained’ [speaker haven’t seen the rain, but sees the ground is wet] [elicited]

- b. *Tamiashkacha?*

tamia-shka=**cha**

rain-ANT=**CHA**

‘Has it rained? / It has rained, hasn’t it?’ [elicited]

¹²This elicitation session is accessible online in the ELAR Upper Napo Kichwa deposit, under the following link: <https://elar.soas.ac.uk/Record/MPI1034554>.

The example (8a) was presented to consultants in an elicitation context, but they rejected it, proposing (8b) instead. If =*cha* was a conjectural evidential, its use in a declarative statements would not be problematic, as suggested by evidence from other varieties of Quechua.

Although =*cha*-marked declaratives are not attested in elicitation, they do occur in naturalistic discourse, in utterances which can be interpreted as rhetorical questions, as in (9), or dubitative statements, as in (10):

(9) Rhetorical question

Chiraygucha kay islamaga allí...
chi-raygu=cha kay isla-ma=ga alli
 D.DEM-CAUSAL=CHA P.DEM shore-DAT=TOP good
 ‘That would be why [the soil] is good on this shore’ [in_01082013_02 094]

(10) Dubitative

Ima shutiracha, Shangricha nijkuna akay...
ima shuti-ta=cha Shangri=cha ni-k-kuna a-ka=y
 what name-ACC=CHA NAME=CHA say-NMLZ-PL AUX-PST=EMPH.INT
 ‘What was his name, I think they called him Shangri...’ [in_26052013_02 132]

Example (9) is an excerpt from a conversation between two farmers, each of whom owns a plot of land on the shore of the Napo river, in roughly the same area. Although the speaker has first-hand knowledge about the quality of the soil on the shore, he still chooses to use =*cha*, possibly because the plot of land under discussion belongs to the other farmer. Example (10) further shows that Upper Napo Kichwa =*cha* does not lend itself to the analyses proposed for its cognates. In this case, the speaker is an elderly woman trying to remember the name of a shaman she used to know in her youth. Her interlocutor is a young interviewer, who could not have possibly known the shaman. Here, =*cha* is used despite the fact that the speaker has direct, though partial evidence for the proposition, as she knew the shaman in person. Thus, as shown in example (2) above, in Cuzco Quechua that same example would have been marked by -*chus hina*, rather than =*cha*. As in case of =*mi*, the occurrences of =*cha* in the examples cited in this section cannot be accounted for by the evidential analysis, but can be explained if the marker is analysed as related to epistemic primacy. I discuss this analysis in detail in the following section.

4 Epistemic primacy in Upper Napo Kichwa discourse

In the previous section, I have shown why the evidential analysis does not apply to the Upper Napo Kichwa enclitics *=mi* and *=cha*. Here, I spell out their analysis as markers of epistemic primacy. Firstly, I discuss the semantic contribution the two markers make to the clause (4.1). Secondly, I explain how their epistemic primacy semantics can be reconciled with their association with focus (4.2).

4.1 Epistemic primacy semantics of *=mi* and *=cha*

As mentioned in §1.3.2, epistemic primacy can be defined as a “relative right to know or claim” (Stivers2011). As such, the notion operates on a different level of discourse than that of evidence. Evidence or access to information by default relates to the text-external world. The same does not hold for epistemic primacy, which is more social or interpersonal. Conviction of having superior knowledge, or right to claim something, can of course also be grounded in the discourse-external reality, but that need not always be the case. Claims to superior knowledge can arise on the basis of subjective mental processes unrelated to external discourse contexts. Consequently, the notion of epistemic primacy is also broader. All the instances of the speaker having direct, sensory access to events can be explained as cases of evoking both direct evidence and epistemic authority/primacy, which arises by virtue of direct access to an event. However, cases such as the *=mi*-marked guess in example (7) can be explained by the speaker invoking epistemic primacy, but not by the direct evidence¹³ or BEST POSSIBLE GROUND analysis (see §1.3.2).

As mentioned in §1.3.2, an important component of the epistemic primacy meaning is its relative nature; The “relative right to know or claim” certain pieces of information arises as an interpersonal aspect of the context of the speech situation. Let us imagine a situation in which I explain the meaning of the Upper Napo Kichwa word *ayllu* (‘family’/‘relatives’) to a fellow linguist, who works on another language family. In this encounter, I could safely assume epistemic primacy, since I am more qualified to talk about Quechuan than my colleague. The knowledge about Quechuan languages falls within my TERRITORY OF INFORMA-

¹³In this particular case, “guesswork” could be regarded as inference based on partial evidence, rather than no evidence at all – despite the earlier erroneous guesses, the speaker might be convinced that this time their observation of the seed’s location is correct (thank you to Kasper Boye for pointing this out). This does not invalidate the main point of the argument – the previous analyses do not hold for Upper Napo Kichwa *=mi*. As discussed earlier, the Cuzco Quechua *=mi* cannot be used in case of only partial direct evidence, where *-chus hina* is preferred.

TION (cf. Kamio1997). However, if I were discussing the meaning of the same lexeme with any native speaker of Upper Napo Kichwa, it would be them, not me, who would hold epistemic primacy, by virtue of their native knowledge of the Kichwa language and culture. It follows that to claim epistemic primacy we do not need to be extremely highly qualified, or even certain about the veracity of the proposition; we do need to assume however, that we are more qualified to voice an opinion than our interlocutor is. If we assume that the Upper Napo Kichwa =*mi* encodes epistemic primacy, examples of its use in utterances (3) to (7) given in §1.3.2 can all be accounted for.

Another aspect of the meaning of =*mi* which was not mentioned so far is that it undergoes ORIGO SHIFT. That is, it is anchored to the speaker in declarative clauses, and to the hearer in interrogative clauses - hence the use of the term *origo* rather than *speaker* in reference to the source of epistemic authority indexed by =*mi*. Consider:

- (11) *Ñuka shuti anmi Karolina.*
 ñuka shuti an=**mi** Karolina
 1SG name be=**MI** NAME
 ‘My name is Karolina.’ [elicited]
- (12) *Ima shutimi?*
 ima shuti=**mi**
 what name=**MI**
 ‘What’s her name?’ [asking about the name of a third person.] [in_20092013_ -
 03 216]

In (11), the speaker introduces herself, and it is clear that the epistemic authority to give this type of information lies exclusively with her. In case of (12), however, it is not the speaker but the hearer who is the source of epistemic authority. Origo shift is not a singular feature of the Upper Napo Kichwa epistemic marking - it occurs in a great many evidential/epistemic marking systems described to date (cf. e.g., Hargreaves2005).

I turn now to the semantics of the Upper Napo Kichwa =*cha*. In the previous section, I have shown that it is not satisfactorily analysed as a conjectural/inferential evidential. Instead, I propose to analyse the marker as indicating the speaker’s lack of epistemic primacy. This means that by using =*cha* the speaker indicates not having the “relative right to know or claim”. This analysis is compatible with the examples (9) and (10) above, since having no epistemic primacy is compatible with doubt. However, the use of the marker in example (8), which

demonstrates that in the absence of context, =*cha*-marked utterances are interpreted as interrogatives, requires additional explanation, which I provide in §5.

The examples of =*cha* given so far do not provide sufficient evidence for claiming that the marker indicates lack of epistemic primacy, as they would also be permissible if the marker simply had a dubitative meaning. What differentiates the dubitative from the “lack of epistemic primacy” expression is that, by using the first, the speaker indicates that he considers the proposition in question as a possibility. In the latter case, the speaker indicates that he is not in position to evaluate the probability of the proposition. The Upper Napo Kichwa data suggest that this in fact the case. In §3.2 I have shown that Upper Napo Kichwa dubitative statements are marked with the epistemic modal *yachin* (seem-3), potentially accompanied with =*mi*, rather than with =*cha* (see example (5)). Consider:

- (13) a. *Yaya yachin, paywa yaya...*
 yaya yachi-n, pay-pa yaya
 father-3 seem-3 3SG-GEN father
 ‘It seems [he is the] father, his father..’ [el_18092014_02 028]
- b. *Yaya yachin, paywa yayacha...[?]*
 yaya yachi-n, pay-pa yaya=**cha**
 father seem-3 3SG-GEN father=**CHA**
 ‘It seems [he is the] father, isn’t he his father?/is he his father?’ [elicited]

The difference between (13a) and (13b) lies in the fact that in example (13a) speaker presents his own point of view, supposing that the farmer from the “Pear story” video (Chafe1980) is the father of the boy who comes over to steal the fruit. In (13b), the point of the utterance is different - the speaker first expresses a supposition that the man in the film is the boy’s father using the epistemic modal, and then acknowledges the lack of “right to claim”, turning to the addressee for the evaluation of the proposition. Examples (14) and (15) further support the claim that =*cha* encodes lack of epistemic authority, rather than doubt:

- (14) *Mana yachani, imaracha ranga rawn...*
 mana yacha-ni ima=ta=**cha** ra-nga ra-w-n
 NEG know-1 what=INT=**CHA** do-FUT AUX-PROG-3
 ‘I don’t know, what will he do..’ [about the boy in the “Pear story”] [in_-24092014_01 026]

- (15) *Maymach^{cha} rinun, payna....Payna wasima rinawn yachin.*
 may-ma=**cha** ri-nun payguna payguna wasi-ma ri-nun yachi-n
 where-DAT=**CHA** go-3PL 3PL 3PL house-DAT go-3PL seem-3
 ‘Where are they going. It seems they are going home...’ [el_24092014_02
 028]

In (14) and (15) =*cha* occurs on interrogative pronouns in rhetorical content question, rather than marking propositions the veracity of which is not evident to the speaker, as a dubitative marker would. This is clear in (15), where the first clause of the utterance is marked with =*cha* to show the lack of epistemic authority, and it is only in the second clause that the speaker makes a supposition, marking it with *yachin* (seem-3). The above examples support the analysis of the marker as indicating that by using it the speaker assumes the position of lacking the knowledge necessary to evaluate its veracity.

There are two other important aspects of the meaning of =*cha* which should be mentioned here. Firstly, unlike =*mi*, the Upper Napo Kichwa =*cha* does not undergo origo shift; the “lack of epistemic primacy” is always anchored to the speaker, irrespective of whether the utterance is interrogative or declarative. The research to date does not suffice to explain why this is the case.¹⁴ Further research is also needed to clarify the motivations speakers when they choose to use =*mi* and =*cha* in questions. It also remains to be established whether such choices are motivated by the content of the utterance, the epistemic context of discourse, or considerations related to politeness. Initial observations indicate that speakers resist using =*mi* when asking questions concerning the addressee. In second person interrogatives =*cha* or the negative/interrogative marker =*chu* are strongly preferred; When I tried uttering declarative clauses with second person subject, my interlocutors corrected me, suggesting that what I wanted to say was actually a =*chu* or =*cha*-marked question. As shown in (12) above, the use of =*mi* is not an issue in third person questions.

Lastly, it is important to note that the “lack of epistemic primacy” meaning does not always entail that the speaker’s epistemic access is inferior to that of the interlocutor. The examples (13) through (15) above suggest that =*cha* is used in discourse in such contexts, and this is most often the case. However, this is not the case in (10), repeated below for the sake of clarity:

¹⁴The currently available data suggest that unlike =*mi*, the meaning of is not =*cha* not assign epistemic primacy to a particular participant of the interaction. Rather, it serves to indicate that the speaker does not hold it. This aspect of analysis needs to be developed in more detail, but it would explain why =*cha* does not partake in origo shift (thank you to Henrik Bergqvist for this observation).

(10) Dubitative

Ima shutiracha, Shangricha nijkuna akay...
 ima shuti-ta=**cha** Shangri=**cha** ni-k-kuna a-ka=y
 what name-ACC=**CHA** NAME=**CHA** say-NMLZ-PL AUX-PST=EMPH.INT
 ‘What was his name, I think they called him Shangri...’ [in_26052013_02
 132]

As mentioned above, in this case the speaker is trying to remember an event from her youth, and marks the propositions she is not sure about with =*cha*. However, her interlocutor is a young person who could not have known the shaman whose name the speaker is trying to remember. Therefore, a more plausible analysis is that the speaker uses =*cha* to indicate that she does not have epistemic primacy in this case, although as the narrator and witness of the events she is recounting, she could be expected by the interlocutors to have it. Although examples like this one need further analysis, they are still in line with the main point presented here – that the Upper Napo Kichwa =*cha* can be analysed as a marker of “lack of epistemic primacy” on the part of the speaker.

In this section, I have shown that the two Upper Napo Kichwa markers described in this chapter, namely =*mi* and =*cha*, can be analysed as encoding “epistemic primacy of the origo” and “lack of epistemic primacy of the speaker”, respectively. In the following section, I discuss the relationship between the markers’ semantics and their association with focus.

4.2 Epistemic primacy and focus

In Table 1 (§2), I show that the cognates of the markers =*mi* and =*cha* in other Quechuan varieties were often analysed as focus marker (cf. e.g., Muysken1995; Sanchez2010; Sanchez2015). In the same section, I mention that in Upper Napo Kichwa, =*mi* and =*cha* seem to be associated with focus, but are too infrequent to be plausibly analysed as focus markers. I have discussed the interaction of focus with =*mi* and =*cha* in detail elsewhere (Grzech2016). Here, for the sake of space, I limit the discussion to those aspects of the markers’ association with focus that are relevant to describing the interdependence between their focus-related function and their epistemic primacy-related semantics.

The marker =*mi* can occur in different types of focus structures, but it seems to only be obligatory for the felicity of utterances which contain contrastive focus. Consider:

- (16) *Mana ñuka ushichu, ñuka warmimi / #warmi*
 mana ñuka ushi=chu, ñuka warmi=mi / #warmi
 NEG 1SG daughter=Q/NEG 1SG woman=MI / #woman
 ‘[She is] not my daughter, [she is] my wife.’ [elicited]

Contrastive focus, as understood here, exhibits two main properties: (1) having a set of identifiable alternatives (cf. Kiss1998; Repp2010) and (2) implying the rejection of those alternatives (Repp2010). Both apply to (16) above and (17) below, which the speakers also resisted accepting without =*mi*:

- (17) *Mana atarikanichu, tianukallami.*
 mana atari-ka=chu tia-nuka=lla=mi
 NEG get.up-PST=Q/NEG be-3PL.PST=LIM=MI
 ‘[(S)he] didn’t stand up, they just sat [there]’ [el_24112014_01 041]

The contrastive constructions exemplified in (16) and (17) are also corrective, that is, the alternatives to the focused constituent are not only identifiable, but also overt (cf. Repp2010). Correction involves rejection of an alternative proposition that is currently under discussion, or which the hearer assumes to form part of CG. The =*mi*-marked constituents are introduced to the CG in the aftermath of the rejection of the =*chu*-marked alternatives. Consequently, in both cases, propositions which one of the speakers considered true before the exchange are rejected, and replaced with the new, =*mi*-marked content. The fact that =*mi* is required for the felicity of such constructions is fully compatible with the marker’s ‘epistemic primacy’ semantics. By uttering (16) and (17), the speaker contradicts a proposition the hearer held as true, and introduces a new one, the factuality of which was outside the interlocutor’s awareness. Hence, in both cases, it is the speaker who holds the epistemic primacy. This would explain the fact that =*mi* is required for the felicity of this type of utterances. The marker can also occur in information focus structures, but consultants deem those equally permissible with and without =*mi*. The non-obligatoriness of the marker in such contexts plausibly stems from the fact that in the case of information focus it is not always clear - as it is in cases of corrective, contrastive foci - that the interlocutor was neither aware of, nor expecting¹⁵, the focal content of the utterance.

Let us compare the above to the correlation of focus with =*cha*, which occurs only in information focus contexts. Consider the following exchanges:

¹⁵Expectation is another factor which seems to be relevant to the occurrence of =*mi* in Upper Napo Kichwa. For reasons of space, I do not discuss it in detail here, but a discussion of its role in the distribution of =*mi* is provided elsewhere (cf. Grzech2016a).

- (18) a. *Ayajcha panga?*
 ayaj=**cha** panga
 bitter=**CHA** leaf
 '[is it a] bitter leaf?'
- b. *Ayajtá*
 ayaj=**tá**
 bitter=**TÁ**
 '[it IS] bitter' [in_05092014_01 033-34]
- (19) a. *Shindzi waskachá?*
 shindzi waska=**cha**
 strong string=**CHA**
 '[Is] the string strong?'
- b. *Shindzimi*
 shindzi=**mi**
 strong=**MI**
 '[It is] strong' [in_20092013_01 186-87]

In the question-answer pairs in (18) and (19), =*cha* is used to indicate the focus of the interrogative clauses. In the corresponding answers, the focus is marked with the verum focus marker =*tá* and with =*mi*, respectively. The enclitic =*cha* is not syntactically obligatory in the contexts shown above, but (quasi-)interrogatives are the most frequent context of its use. The fact that it tends to indicate information focus in rhetorical and confirmation questions is compatible with its “lack of epistemic primacy” semantics; marking the focus of interrogative utterances is tantamount to highlighting the portion of the utterance about which the speaker does not have sufficient knowledge. Hence, he is requesting more information from the addressee. Therefore, highlighting focus in dubitative/interrogative contexts and marking the speaker’s “lack of epistemic primacy” can be regarded as complementary aspects of the discourse function of =*cha*.

5 Epistemic primacy and Common Ground management

The discussion so far suggests that both =*mi* and =*cha* are polyfunctional markers, encoding meanings related epistemic primacy and associated with the IS category of focus. Consequently, a question that emerges is whether these two

aspects of meaning could be considered jointly, so as to arrive at a unified analysis of their function in discourse. In the paragraphs that follow, I propose that such an analysis is possible if we take the notion of Common Ground into account.

In §1.3.4, I defined the notions of COMMON GROUND (CG) and CG MANAGEMENT. I mentioned that CG develops constantly over the course of communication. Its content expands as the interlocutors put forward new propositions, which they mutually agree to treat as true for the purpose of the exchange (cf. e.g., **Stalnaker1974**). However, CG consists not only of its truth-conditional content, but also of CG management, that is, linguistic devices indicating how CG should develop – what propositions should be added to it, and at which point in the conversation. The discussion in the following paragraphs is underpinned by another important assumption: that any update in the CG results from solving a QUESTION UNDER DISCUSSION (henceforth QUD) (cf. **Asher1993**; **Matic2015**). QUDs are introduced into discourse to advance communication, often by means of interrogative clauses which require an answer. QUDs influence the development of the CG content by directing the communicative exchange towards saturating certain propositions, so that they can then be added to CG.

As mentioned above, the development of CG is also informed by expressions which contribute to CG management, rather than content. These type of expressions are typically non-truth conditional; they do not add to the proposition expressed, but rather constitute processing clues for the interlocutors, indicating whether and how certain propositions could be integrated into the CG content. I propose that the Upper Napo Kichwa enclitics discussed in this chapter belong to this class of expressions, with the epistemic primacy and information-structural aspects of their meaning contributing to their overarching function of CG management.

Although Quechuan epistemic/evidential markers have not been analysed in this way before, the idea that epistemic meanings and IS meanings are related to each other is not a new one. **Kamio1997** pointed out a conceptual relation between the TERRITORIES OF INFORMATION and IS, as both relate to “the character of information expressed in natural language”. In Quechuan literature, these relations also have not gone without notice. **Hintz2017** observe that “the intersubjective nature of certain evidential systems” invites discussion of how evidentiality relates to CG. In her analysis of Cuzco Quechua evidentials, **Faller2002** also mentions in passing that evidential marking is related to IS. In some previous studies (e.g., **Muysken1995**), the focus-related and evidential functions of the enclitics were acknowledged, although the relation between the two was not

explained.

Upper Napo Kichwa =*mi* and =*cha* can be analysed as markers of CG management not only because of their meaning, but also because of the type of contribution they make to the proposition expressed. Both markers are non-truth conditional, which is confirmed by the fact that their contribution to the propositions expressed by the utterances in which they occur cannot be negated (for discussion, see Grzech2016a; Grzech2016b). It follows that they cannot contribute to the CG content, which is truth-conditional by definition.

Let us discuss the CG management function of =*mi* on the basis of its occurrence in declarative clauses, where the origo is tantamount to the speaker. As mentioned previously, the speakers use =*mi* not only to indicate focus, but also to assert their epistemic primacy. In doing so, they highlight information as congruent with their own world knowledge, but not necessarily with that of the hearer. Consequently, the use of =*mi* indicates that the speaker has information that is sufficient to resolve a certain QUD, and that this information is not shared with the interlocutor. The association of =*mi* with contrastive focus is congruent with this analysis; In examples (16) and (17), the contrastive focus associated with =*mi* was also corrective. A correction implies that the speaker assumes being the only participant of discourse who knows how to answer the current QUD. Consequently, the procedural meaning of =*mi*, integrating both epistemic primacy and focus association, is to encourage the hearer to accept the =*mi*-marked information as part of CG, despite the misgivings they might have about it. Consequently, the marker is a CG-management device, the function of which is to accelerate the integration of a certain proposition into CG. This is illustrated in (20) with an exchange that took place between myself (A) and a good friend of mine (B), when we talked about whether I would be able to prefer *chicha*, a traditional drink made from manioc:

- (20) a. *Mana ushani!*
 mana usha-ni
 NEG can-1
 ‘I cannot [make chicha]!’
 b. *Ushanguimi!*
 usha-ngui=**mi**
 can-2=**MI**
 ‘Yes you can’ [attested]

In the example above, my friend corrected me, using a =*mi*-marked utterance to dispel my doubts about my capability of preparing the drink. In this specific

context, the use of =*mi* with second person subject is not aimed to undermine my authority over my own actions or skills – rather, my friend wanted to emphasise the fact that she knows I am skilled, and she also knows how to make *chicha*. She used the =*mi*-marked assertion as form of encouragement, urging me to re-assess my skills.

The function of =*cha* as a CG management device is a mirror-image of the function of =*mi*. As discussed above, the Upper Napo Kichwa =*cha* is associated with information focus and indicates that the speaker renounces epistemic primacy. Consequently, in terms of CG development, the use of =*cha* indicates that the speaker does not have the information sufficient to answer the current QUD, and that input is needed from the hearer to integrate the =*cha*-marked proposition into CG. This explains why, as shown in example (8), =*cha*-marked propositions tend to be interpreted as interrogatives in the absence of further context. It is also congruent with the association of =*cha* with information focus, as the enclitic attaches to that portion of the utterance that requires saturation in subsequent discourse. Consequently, the procedural meaning of =*cha* in terms of CG management is to indicate that the current QUD is not yet solved, preventing the hearer from accepting the proposition as part of CG without further elaboration. This was shown in examples (18) and (19) above.

In this section, I have shown that the two aspects of the semantics of =*mi* and =*cha* discussed in the previous parts of this chapter can be considered jointly, if we analyse the enclitics as markers of CG management. This suggests that rather than referring to them as markers of epistemic primacy associated with focus, they can be analysed as (part of) a morphosyntactic paradigm the main function of which is to manage the CG. In the following section, I show how this proposal can be integrated into a broader, cross-linguistic functional domain of EPISTEMIC PERSPECTIVE.

6 Common Ground management and the epistemic perspective domain

In §1.3.3, I introduced the notion of the domain of EPISTEMIC PERSPECTIVE (Bergqvist2017), which brings together epistemic marking systems attested in various languages, proposing that they share a “functional space” in the grammar. The structure of the domain as proposed by Bergqvist was shown in Figure 1 in §1.3.3, and is repeated below with minor modifications, incorporating the sub-domain of CG management:

The placement of CG management shown in Figure ?? is based on the seman-

tics of the Upper Napo Kichwa CG management markers; As shown in §4, the Upper Napo Kichwa CG-managing enclitics indicate knowledge (a)symmetry between discourse participants, and hence are related to the category of KNOWLEDGE ASYMMETRY.

Bergqvist2017 based the bottom-to-top ordering of the different sub-domains of epistemic perspective on the assumption that the more intersubjective meanings correspond to a wider scope of linguistic expressions. This has been confirmed in the literature on grammaticalisation (Traugott1995; Traugott2003; Traugott2010; Traugott2012; Traugott2002), including grammaticalisation of discourse markers (Traugott1995) and deictic elements, such as demonstratives (e.g., Kratochvil2011). Traugott2010 (e.g., Traugott2010) observes that subjectified elements tend to appear at the periphery of the constituent or clause. This observation applies both to Upper Napo Kichwa CG management markers, and to evidentials in other Quechuan varieties (e.g., Muysken1995; Sanchez2015).

Although I grouped the markers of CG management together with the marking of COMPLEX EPISTEMIC PERSPECTIVE (CEP) on the basis of both sub-domains relating to knowledge (a)symmetries, it remains unclear how CG management markers relate to CEP. Bergqvist characterises CEP as a subtype of multiple perspective (cf. Evans2005), in which “one perspective [is] embedded in another” (Bergqvist2017). In Upper Napo Kichwa, =*mi* – but not =*cha* – can be embedded under verbs of speech and thinking, and thus participate in constructions which could be define as encoding multiple perspective. Such constructions are used to convey reports of other speakers’ utterances, as well as in in self-corrections. Consider:

- (21) *Muyura pitiwn...ima...Coco...Mana, cocomi[an] nini, cocochá...*
 muyu-ta piti-w-n... ima... coco... mana coco=**mi** [a-n] ni-ni...
 fruit-ACC cut-PROG-3 what coconut NEG coconut=**MI** [cop-3] say-1

 coco=**cha**...
 coconut=**CHA**
 ‘He is cutting [harvesting] fruit...what...[It’s a] coconut...No, I said “coconut”... [but is it a] coconut?’ [el_24092014_03 003-5]

In (21), the speaker’s previous opinion about the type of fruit harvested in the “Pear story” video is embedded in the utterance conveying her current opinion. As such, the example could be analysed as an instance of CEP. Note that =*cha* is also used in (21), but not within the complex perspective construction - the speaker marks her new opinion with that enclitic, having realised she is not able

to name the fruit she is seeing.

In the light of the above discussion, the tentative positioning of the category of ‘CG management’ in the vicinity of CEP seems to be accurate. However, it requires further research into the scope of the Upper Napo Kichwa CG management markers. As mentioned above, the bottom-to-top ordering of the different sub-domains in Figure ?? is based on the assumption that the scope of the linguistic expression of these domains is narrow at the bottom and gets wider towards the top. Consequently, the expressions of CEP are supposed to scope over all the other types of markers. The scope properties of =*mi* and =*cha* need to be thoroughly investigated before a definite decision on the placement of the sub-domain of CG management can be made.¹⁶

Consequently, the discourse-semantic considerations presented above need to be investigated in more detail before definite conclusions can be reached about where CG management fits into the epistemic perspective domain. The relationships between the different sub-domains of epistemic perspective are also likely to be revised in the light of ongoing documentation of the world’s languages.

In sum, the Upper Napo Kichwa markers of CG management functionally and semantically fit within the functional domain of epistemic perspective postulated by Bergqvist2017. The data from Upper Napo Kichwa also show that the domain is not complete in the shape in which it was proposed originally.¹⁷ Determining the place of the sub-domain of CG management within the general domain of epistemic perspective, as well as its relationship with other sub-domains, requires further, cross-linguistic research. In this context, the study of the Upper Napo Kichwa CG management enclitics brings us one step closer to describing and analysing the cross-linguistically valid functions and properties of epistemic marking systems across languages.

¹⁶The scope of the markers is not discussed in this chapter, but I do tackle it to some extent in my previous work (Grzech2016a). Preliminary investigation shows that =*mi* can be embedded under verbs of speech and thinking, and under certain modals, but not under negation. The marker =*cha*, on the other hand, was not attested in embedding contexts. Both markers are ungrammatical with grammatically marked imperatives.

¹⁷In the time between when this paper was first written and its going into print, a category of ‘engagement’ was put forward, which encompasses CEP and a broader range of phenomena related to epistemicity (Evans2018). While the analysis presented here does not take that development into account, it will have to be addressed in future studies of Upper Napo Kichwa epistemic marking.

7 Summary and conclusions

Over the course of this chapter, the reader has become acquainted with the system of marking epistemic primacy in Upper Napo Kichwa, focusing on the enclitics =*mi* and =*cha*. I have shown that the two Upper Napo Kichwa enclitics belong to a larger paradigm, and that they can be analysed as marking epistemic primacy, and lack thereof, respectively. I have also shown that although the enclitics are associated with focus, they cannot be considered as focus markers. Consequently, I have demonstrated that the epistemic primacy semantics of the markers and their relation to focus can be brought together under one overarching function: CG management. Finally, I have discussed the place of CG management within the cross-linguistically valid epistemic perspective domain.

Numerous aspects of the Upper Napo Kichwa CG management markers remain to be investigated. First and foremost, although the considerations presented in this chapter help account for the occurrence of both enclitics in discourse, they are not sufficient to account for their non-occurrence. More factors, including (counter)expectation (cf. Matic2015), need to be taken into account in the future research into determining why the Upper Napo Kichwa enclitics are only attested in a very small percentage of the utterances in which they could grammatically occur. As for =*cha*, it is still unclear what role politeness plays in motivating its occurrence in discourse. Furthermore, it remains to be explored how the analyses of epistemic marking systems in lesser-spoken languages such as Upper Napo Kichwa behave in discourse, and how their study can be integrated into the current of discourse analysis concerned with how epistemic meaning is expressed through discourse strategies and discourse structure, which has been on the rise since the publication of the seminal paper of Heritage2005.

Nonetheless, the analysis of =*mi* and =*cha* presented here contributes to our current knowledge of epistemic marking systems in a variety of ways. The chapter adds our current knowledge of systems encoding epistemic meanings in Quechuan languages. As mentioned above, in most described Quechuan varieties, the cognates of the enclitics described in this chapter are analysed as evidential markers. Consequently, the analysis provided here adds to our cross-linguistic knowledge of evidential and related systems. The chapter also contributes to the description of epistemic primacy as a semantic category. Relatively little work has been done cross-linguistically on morphosyntactic systems encoding epistemic primacy (cf. e.g., Stivers2011; Hayano2011). As a result, the description of the Upper Napo Kichwa system contributes to what we know about the category's cross-linguistic properties. The preliminary analysis of the relation of the Upper

Napo Kichwa epistemic primacy markers to CG management in discourse, and to the epistemic perspective domain (Bergqvist2017) make the analysis presented here relevant to the study of linguistic devices encoding epistemic meaning in the cross-linguistic perspective.

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Abbreviations

1	first person
3	third person
1OBJ	1st person singular object
ACC	accusative
ANT	anterior
AUX	auxiliary
CAUSAL	causalis
COND	conditional
CONJ	conjectural
COP	copula
COREF	coreference
D	distal
DAT	dative
DEM	demonstrative
EMPH	emphatic
FUT	future
GEN	genitive
LIM	limitative
INT	interrogative
NAME	proper name
NEG	negative
NMLZ	nominaliser
P	proximal
PL	plural
PROG	progressive
PRT	participle
PST	past
RES	result
SG	singular
TOP	topic
Q	question

Chapter 3

Emerging epistemic marking in Indo-Aryan Palula

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While evidentiality is neither systematically nor obligatorily signaled in Indo-Aryan Palula [phl; phal1254] (Pakistan), it can be observed in so-called scattered coding. It is most obviously reflected in three sub-systems of the language: a) as a secondary effect of tense—aspect differentiation, mostly clearly seen in the use of the perfect for indirect evidence vis-à-vis the use of the simple past for direct evidence; b) by a set of utterance-final mood markers, involving an emerging three-way paradigmatic contrast: *thaní* as quotative, *maní* as hearsay and *ga* as inferred knowledge; and c) by (at least) one member of a set of second-position discourse particles, *xu*, marking surprise. Although evidentiality contrasts akin to the perfect vs. simple past were indeed part of the ancestral Indo-Aryan tense system, there are plenty of parallels in adjacent languages to the epistemic contrasts noted for Palula, suggesting that more recent language contact must have contributed to, or largely facilitated, the emergence of epistemic marking in the language.

1 Introduction

While evidentiality, mirativity and related notions have been discussed at length for Tibeto-Burman (DeLancey1986; DeLancey2001) and for Turkic languages (Johanson2000; Johanson2003), relatively little attention has been given to similar phenomena in the multilingual Hindukush-Karakoram (Afghanistan, Pakistan, Kashmir), a mountainous region home to approximately 50 distinct – mostly Indo-Iranian – languages, lying at the crossroads of South Asia and the Tibetan and the Turkic worlds. Only some preliminary suggestions regarding evidentiality and its origin in the region have been offered, and a few language-specific studies focussing on epistemic aspects have been carried out (see Section ??).



While in a few languages, contrasts in the realm of evidentiality are actually part of verbal morphology, in others it is mainly indicated with particles, or else such distinctions are present in “scattered coding”, i.e. not as part of a single sub-system but instead encoded in various parts of the grammar. In the present study, texts belonging to a corpus resulting from recent fieldwork on Indo-Aryan Palula have been analysed, and some preliminary conclusions as well as open-ended questions are offered regarding various types of epistemic marking found in the language, their possible semantic scope and their relationship to other language-particular grammatical distinctions. It has been found that epistemic marking is entailed in some tense-aspect distinctions (Section ??); in the use of mood-markers (Section ??); and in the use of discourse particles (Section ??). In as much detail as possible, derivational paths will be discussed (see Section ??), and also language-contact effects, e.g. the possible influence of grammaticalized inferentiality in neighbouring languages or in languages of wider communication on Palula. The findings of the study are summarized in Section ??.

2 Background

Palula [iso 639-3: phl; glottocode: phal1254] is an Indo-Aryan language belonging to the Shina group. It is spoken by approximately 10,000 people in the southern part of Chitral district in northern Pakistan (35.38, 71.78; see Figure ??). Speakers are to a varying degree bilingual in Khowar, another Indo-Aryan language widely spoken in Chitral, and/or in Pashto, an Iranian language that is one of the most important lingua francas of northwestern Pakistan. Educated speakers also know Urdu, the nation-wide lingua franca of Pakistan, and to a lesser extent in English. The author conducted linguistic fieldwork in this language, primarily in the period 1998–2006, with the compilation of a corpus of Palula narratives and other texts as one of its aims.¹ In the present study, that corpus has been consulted, along with various field notes and other types of language data, e.g. obtained experimentally or by means of direct elicitation.

The district as well as the surrounding region where Palula is spoken is linguistically highly diverse and multilingual. The mountainous north of Pakistan counts nearly 30 distinct ethnolinguistic communities, and another 20 or so can be added if we also include the adjacent, and equally diverse areas of northeast-

¹The interested reader is encouraged to consult the following works dedicated to the description and documentation of Palula: phonetics and phonology (LiljegrenHaider2009); morphology and syntax (Liljegren2010; Liljegren2016); vocabulary and semantics (LiljegrenHaider2011; LiljegrenHaider2015a); glossed and translated texts (LiljegrenHaider2015b).

ern Afghanistan and Indian-administered Kashmir. Those languages represent six genera: Indo-Aryan² (to which *Palula* and above-mentioned *Khovar* belong), the dominant one as far as the number of languages is concerned; Iranian (apart from Pashto and Dari, the Afghan form of Persian, these are relatively small language communities in remote areas); Nuristani (concentrated in an area of Afghanistan just across the border from Chitral); Tibeto-Burman (represented by *Balti*, spoken in the eastern-most part of this region); Turkic (mainly in the borderlands between Afghanistan and the former Soviet republics of Central Asia); and the language isolate *Burushaski*.



Figure 1: Chitral district and the surrounding region. Language names (only those that feature in the article) in italics.

There are only a few studies discussing evidentiality in this region, if we do not consider the observations made regarding the general pervasiveness of it in the grammars of Turkic and Tibeto-Burman, two of the genera represented here – although in a rather peripheral way, as we saw above. In a master’s thesis, Jones2009a analyses evidentiality and mirativity in *Balti*, and concludes that the language has a grammatical category of mirativity, reflected by present and past mirative markers, as well as a reportative verb suffix and some newly developed strategies for marking inference and supposition.

²Indo-Aryan, Iranian and Nuristani are usually regarded as subgroups on the same level, subsumed under the Indo-Iranian branch of Indo-European.

Although evidentiality seems a less pervasive or significant feature in Iranian languages in general than is the case in Turkic and Tibeto-Burman, there are nevertheless indications that certain verb forms in the Persian varieties spoken in or near this region have epistemic uses. While the scope of epistemic uses is limited to past-time reference in Persian of Iran, **Perry2000** presents evidence of much wider uses in Dari, i.e. the variety spoken in Afghanistan, encompassing quotative, inference, presumptive and speculative functions, in the present and future as well as in the past. **Bashir2006** also notes the use of a so-called “distant perfect” in Iranian Wakhi as a marker of inferentiality or mirativity (**Bashir2006**; **Bashir2009**) and a second-position clitic in Pashto carrying out certain evidentiality-related functions (**Bashir2006**).

Evidentiality distinctions in Indo-Aryan are in general not particularly significant or easily identifiable (**Masica1991**; **de Haan2013**), but there are individual or areally significant exceptions, a fact noted by **Bashir2006**. Khowar, the Indo-Aryan language mentioned above, and its closest relative Kalasha, are particularly interesting in this regard, as they may be part of an areal configuration, also including non-Indo-Aryan languages in the Hindukush-Karakoram region, where the semantic parameter of evidentiality to a varying extent has been grammaticalized (**Bashir1988**; **Bashir1996a**; **Bashir1996b**; **Bashir2003**; **Bashir2010**). In another degree work, **Lubberger2014** analyses a set of metarepresentation markers in Indus Kohistani — an Indo-Aryan language spoken in the central parts of the Hindukush-Karakoram region — of which at least two have a definite bearing on evidentiality.

Based on previously, but severely limited, published research, **Bashir2006** also presents evidence for what she refers to as “robust inferential/indirective systems” (**Bashir2006**) in several of the lesser-described Nuristani languages, as well as a special past-tense form only found in one of the dialects of Burushaski, which imparts an inferential-mirative meaning (**Bashir2010**).

3 Evidentiality and tense–aspect differentiation

The first evidential sub-system in Palula to be discussed, is that of verbal categories. Seven main TMA categories can be identified in the language (**Liljegren2016**): four (Future, Present, Simple Past, Imperative) that are purely morphological categories, and another three that are periphrastically formed by the addition of auxiliaries (Past Imperfective, Perfect, Pluperfect). Palula is, like most other languages of the surrounding region, verb-final, and most frequently SOV. Verb morphology is suffixal, whether related to tense-aspect or agreement marking,

and auxiliaries occur subsequent to the main verb.

Evidentiality is not a primary category in this system. Instead, the use of Simple Past vis-à-vis Perfect in Palula narratives often entails a contrast between direct and indirect evidence with events in the past. This is for instance reflected in the choice of verbal category when applying Dahl1985's (Dahl1985) TMA questionnaire. The event described in (??) is the speaker's eye-witness account, whereas in (??), it is what the speaker's brother experienced and told the speaker prior to the moment of speaking that is being described. In the first case, the Simple Past (morphologically expressed with the perfective and ergative person-/number agreement) is used. In the second case, the Perfect category (morphologically expressed with the perfective and the present tense form of a 'be'-auxiliary, both agreeing in person/number with the O or S) is instead applied.

(1) Palula – Simple Past

tii áa báat uçh-i ba jhandra-í the uríit-u.
 3SG.REM.OBL IDEF stone lift-CV TOP snake-OBL to let.go.PFV-MSG
so múr-u.
 3.SG.REM.NOM die.PFV-MSG

[This happened to my brother, I saw it:] 'He took a stone and threw it at the snake. It died.' (PHL-TMAQ-NH:174–175)

(2) Palula – Perfect

tii áa báat uçh-í ba jhandra-í the uríit-u
 3SG.REM.OBL IDEF stone lift-CV TOP snake-OBL to let.go.PFV-MSG
hín-u ta, so múr-u hín-u.
 be.PRS-MSG SUB 3SG.REM.NOM die.PFV-MSG be.PRS-MSG

[This happened to my brother, and he told me:] 'He took a stone and threw it at the snake. It died.' (PHL-TMAQ-NH:179–180)

The example in (??) is from an interview, where the narrator tells how he a long time ago went to his father-in-law who told him a story. Here, the tense is the Simple Past. This can be compared with the corresponding Perfect forms used in the lines of (??), belonging to a story about a boy named Katamosh who was told by his mother to go to his grandmother up in the high pastures. The latter is obviously part of a non-witnessed event with numerous components of fiction, such as animals acting and talking.

(3) Palula – Simple Past

áa deés táa gúum ta, máathe qisá th-íil-u.
 one day there.REM go.PFV.MSG SUB 1SG.DAT story do-PFV-MSG
 ‘One day I went there, and [he] told me a story.’ (PHL-Hunter:009)

(4) Palula – Perfect

tasíi yéei taste áak tiki th-íil-i hín-i. kaṭamúš
 3SG.GEN mother 3SG.DAT IDEF bread.cake do-PFV-F be.PRS-F Katamosh
tiki dóok-a pharé ghaṇḍ-í sóon-a dúši gúum
 bread.cake back-OBL along tie-CV pasture-OBL toward go.PFV.MSG
hín-u.
 be.PRS-MSG
 ‘His mother made a cake of bread for him. Katamosh tied the bread to his
 back and set out to the high pastures.’ (PHL-Katamosh:009-010)

However, it should be noted that this “extended” use of the Perfect is only a tendency, far from any obligatory marking of indirect evidence. It also seems that some authors or narrators are more prone than others to use it. In another, equally fantastic, story, an unnamed person in a distant past goes hunting, and while sitting down to eat the cooked meat of a markhor, a *ṭhaaṭáaku*, a hairy and frightening creature suddenly appears. Here, however, as can be seen in (??), the line of the narrative uses the Simple Past.

(5) Palula – Simple Past

angóor jeel-í táa pačaá kh-ainií široó th-íil-u. široó
 fire light-CV there.REM cook.CV eat-INF starting do-PFV-MSG starting
th-íil-u ta, tii mají áa jhaṭíl-u ṭhaaṭáaku
 do-PFV-MSG SUB 3SG.REM.OBL in IDEF hairy-MSG ogre
yh-óol-u.
 come-PFV-MSG
 ‘When he had made a fire, he cooked the meat and started eating.
 Meanwhile, a *ṭhaaṭáaku* suddenly appeared.’ (PHL-Thaataaku:004-005)

An even less predictable contrast is that between Present and Future, as in (??) and (??), respectively. Both can be used with future-time reference. However, the choice in this case does not necessarily have a bearing on evidentiality per se.

(6) Palula – Future

ma nis aáj kh-úum ta, rhootašii-a ba kanáa
 1SG.NOM 3SG.PROX.ACC today eat-1SG SUB morning-OBL TOP what

bh-úum.

become-1SG

‘If I eat it today, what should I then do tomorrow?’

(PHL-HunterMonkey:005)

- (7) Palula – Present

uth-í maníit-u hín-u ki éé lhénđu góoi
stand.up-CV say.PFV-MSG be.PRS-MSG COMP o bald(M) where.from
*yh-óol-u? ma tu **kha-áan-u**, muştú ma thúi*
come-PFV-MSG 1SG.NOM 2SG.NOM eat-PRS-MSG first 1SG.NOM 2SG.GEN
*ráat **pil-áan-u**, théeba ma thúi lhénđ-i kakaríi*
blood drink-PRS-MSG then 1SG.NOM 2SG.GEN bald-F scalp

čap-áan-u.

gnaw-PRS-MSG

‘I will eat you. First I will drink your blood, and then I will gnaw on your bald scalp.’ (PHL-Katamosh:030–032)

When on the other hand two present-time referring utterances are being contrasted as in (??) and (??), there is a clearer correspondence between the use of Present and direct evidence, on the one hand, and the use of Future and indirect evidence, on the other.

- (8) Palula – Present

*faríd teeníi ghooşt-á **hín-u.***

Farid REFL house-OBL be.PRS-MSG

‘Farid is at home [I was there and saw him].’ (PHL-20157027-elic:007)

- (9) Palula – Future

*faríd teeníi ghooşt-á **hóons-a.***

Farid REFL house-OBL be-3SG

‘Farid is at home [he is usually at this time].’ (PHL-20157027-elic:008)

4 Evidentiality and utterance-final mood markers

Palula has a closed set of markers that one way or another specify the relationship between an utterance as a whole and the speaker and/or hearer, e.g. signaling a polar question or a request. Almost exclusively, such mood markers occur

utterance-finally, i.e. in most cases following the finite verb. At least three of those markers have functions related to, or partly related to, evidentiality.

The most frequent (in my corpus) of the three, *thaní*, is a quotative (Liljegren2016). In Palula narratives, it usually marks — or closes — directly quoted speech, as in (??).

(10) Palula – quotative

so ba maidóon-a=wée be ba áa khur raál the ba
 3MSG.NOM TOP field-OBL=into go.CV TOP one foot High do.CV TOP
kar kar kar gír-a koó hín-ee yh-óoi thaní.
 around around around turn-3SG who be.PRS-MPL.Q come-IMP.PL QUOT
 ‘He was spinning around and around in the field, holding up one leg,
 [and he was calling out, saying,] “Is there anyone here [brave enough]?
 Come on!”’ (PHL-JangibazKhan:037–038)

However, it may occasionally extend into (non-uttered) reported thought, as shown in (??), here used along with a preposed *ki*-complementizer.

(11) Palula – quotative

ghrast-á karáar-a asú xiaál ki góo mheer-íl-u heentá
 wolf-OBL leopard-OBL 1PL.GEN opinion COMP maybe kill-PFV-MSG CONDL
kh-óol-u thaní.
 eat-PFV-MSG QUOT
 ‘We thought that perhaps a leopard or a wolf had killed and eaten him.’
 (PHL-GhaziSamad:011)

If an explicit PCU (perception-cognition-utterance) predicate precedes the complement, the use of the quotative is more variable. In (??), where the utterance predicate *teekílu* ‘called (out)’ is used, there is no closing *thaní*, while in (??), the quotative *thaní* is co-occurring with the preceding predicate of knowledge acquisition, *búda hína* ‘(have) understood’.

(12) Palula – utterance without quotative

áak šúma teek-íl-u, ée kúri thúi míš-i paañí
 wolf-OBL leopard-OBL 1PL.GEN opinion COMP maybe kill-PFV-MSG CONDL
š-éel-i hín-i, tu míš ba na.
 eat-PFV-MSG QUOT
 ‘We thought that perhaps a leopard or a wolf had killed and eaten him.’
 (PHL-GhaziSamad:011)

- (13) Palula – utterance with PCU predicate and quotative

búd-a hín-a ki phaí wíi-a gúi thaní.
 understand.PFV-MPL be.PRS-MPL COMP girl water-OBL go.PFV.FSG QUOT
 ‘They understood that the girl must have thrown herself into the water.’
 (PHL-ShepherdBoy:060)

Another, highly grammaticalized, function of *thaní* is when it occurs postposed to a proper noun and carries the meaning ‘called, thus named’, referring to the immediately preceding noun. An example is provided in (??).

- (14) Palula – ‘name’

miír thaní áak miš heens-íl-u de.
 Mir QUOT IDEF man exist-PFV-MSG PST
 ‘There was a man called Mir.’ (PHL-GhaziSamad:051)

Hearsay can be (but is not necessarily) marked with an utterance-final *maní*. The reported content, preceding it, is in such cases often mythical or unexpected, as in (??).

- (15) Palula – hearsay

daçh-áan-u ta eeteen-ú=ee áak šay yh-óol-u maní,
 look-PRS-MSG SUB such-MSG=CONJ IDEF thing come-PFV-MSG HSAY
maaxustán de maní, áa šay yh-óol-u babár,
 evening be.PST HSAY IDEF thing come-PFV-MSG furry.thing
búd-u ki na.
 understand.PFV-MSG OR NEG
 ‘Then a creature appeared, it is said, in the evening, it is said, a furry one, you know, don’t you.’ (PHL-AyanMir1:065)

However, the use of *maní* is not restricted to narrative discourse. It is also used in everyday conversation, as in (??), an excerpt from an online chat conversation. It should be noted that it is only the first of the two clauses that is hearsay-marked.

- (16) Palula – hearsay

asii atshareet-á bíid-u kir díit-u hín-u maní,
 1PL.GEN Ashret-OBL much-MSG snow fall.PFV-MSG be.PRS-MSG HSAY
hiimeel-í bi whéet-im hín-i.
 glacier-PL SEP come.down.PFV-FPL be.PRS-F
 ‘[I have been told that] a lot of snow has fallen in our [village] Ashret, and there have been avalanches as well.’ (PHL-CHN070320)

Finally, a third, and in the present corpus much more infrequently occurring marker, *ga*, signals inferred, presumed or assumed knowledge, as in (??).

(17) Palula – assumption

anú dhút-a de baaǰá bhanǰa-áan-a eetáai
 PROX.NOM.MSG mouth-OBL give.CV harmonium beat-PRS-MPL from.there
aawaáz yh-áand-u. eh rueeleé hín-a ga,
 sound come-PRS-MSG oh government.official.PL be.PRS-MPL ASS
rueeleé ba aní sarkaari sipaahi-aán hóons-an de.
 government.official.PL TOP PROX official soldier-PL exist-3PL PST
 ‘I heard a sound like a harmonium being played. “Oh,” I thought, “These
 must be government officials, such professional soldiers they are.”’
 (PHL-Hunter:067-068)

5 Evidentiality and second-position discourse particles

Palula discourse markers are second-position clitics that specify the discourse role of a preceding unit (often a noun phrase) in relation to adjacent units. A secondary effect of some discourse markers is that they indicate how larger units (e.g. clauses) are interrelated, especially when used in pairs, or when the same marker is used repeatedly in two adjacent clauses. The latter use overlaps with the function of conjunctions.

The particle *xu* is such a second-position clitic. It signals surprise, as in (??), or emphasis, occurring postposed to the first-position constituent that is thus being focused. While it is often difficult to find good translation equivalents in English, it is strikingly similar in meaning to the Swedish modal particles *ju* or *visst*.

(18) Palula – assumption

ée mii xudaáyaa ni xu ux-ii rhaíi hín-i.
 o 1SG.GEN my.God 3PL.PROX.NOM EMPH camel-GEN footprints be.PRS-F
 ‘O my God, it’s the footprints of a camel.’ (PHL-Hunter:061) [Swedish:
 ‘Men herregud, det är ju kamelspår!’]

Other members of the set of second-position discourse particles are: *bi* (separation marker, see (??) for an example), *ba* (switch-topic marker), *ta* (contrast marker), *ee* (amplification marker). The extremely frequently occurring switch-topic marker *ba*, is for instance used to make a contrast with an immediately preceding subject explicit, as in (??), but has a number of other functions, some

of them challenging to define exactly (Liljegren2016). (See (??) for another example of the contrastive function.)

(19) Palula – contrast

míi ghoóʃt lookúri hín-u, iskuúl ba asíi kaṇeeghaá
 1SG.GEN house Lokuri [place] be.PRS-MSG school TOP 1PL.GEN
hín-i.

Kanegha [place] be.PRS-F

‘My house is in Lokuri, while our school is in Kanegha.’ (PHL-Our school:004)

6 Origins and grammaticalization paths

As for the contrastive use of tense-aspect categories to signal indirect vs. direct evidence, there is evidence of a similar-functioning differentiation in Old Indo-Aryan, i.e. in the ancestral language (or a closely related language to that) of Palula and other modern-day Indo-Aryan languages. In the system described by the Indian grammarian Pāṇini, there were three categories with past-time reference: Aorist, Imperfect and Perfect. Of these three, the Perfect was used with special reference to reported, less recent, events, that is excluding the speaker’s direct witnessing the event reported, while the Imperfective had the same time reference as the Perfect but implied that the speaker was indeed a direct witness. The Aorist, which functioned as a more general past tense, was the only one of the three that could refer to recent events (Cardona2002). Deshpande1981 summarizes, in the same vein, this three-way contrast as: a) [+past +recent +/-seen] (Aorist), b) [+past -recent +seen] (Imperfective), and c) [+past -recent -seen] (Perfect), thus making the presence or absence of a [seen] feature the minimal contrast between the latter two, a distinction that Bashir2006 argues has been passed on to some of the descendant languages, the two Chitral languages Kalasha and Khowar in particular.

In Khowar, which is locally influential in the district where Palula is spoken, and also is the second language of many Palula speakers, the distinction between indirect evidence [+past -seen] and direct evidence [+past +seen] is upheld in the tense-aspect system (which has retained forms that were lost in most other Indo-Aryan languages), as can be seen in comparing (??) with (??). Here, the [-seen] value of the Past Inferential is further specified with a *birai* (a past participle of ‘become’ whose epistemic function has developed later) which adds a mirative meaning to the reported event. The encoding of such evidentiality-related

differentiation, is non-optional in Khowar (Bashir2007).

(20) Khowar – Past Actual

hase boht-o gan-i ayi-o tek-o lak-it-ai,
3SG.REM.NOM stone-OBL take-CV snake-OBL TOP-OBL let.go-PST-3SG

hase o-br-it-ai.

3SG.REM.NOM PST-die-PST-3SG

[This happened to my brother, I saw it:] ‘He took a stone and threw it at the snake. It died.’ (KHW-TMAQ-AA:174-175)

(21) Khowar – Past Perfective Inferential

hase boht-o gan-i ayi-o tek-o lak-iru
3SG.REM.NOM stone-OBL take-CV snake-OBL TOP-OBL let.go-PPTC

bir-ai, hase birdu bir-ai.

become.PST.INFER-3SG 3SG.REM.NOM die.PPTC become. PST.INFER-3SG

[This happened to my brother, and he told me:] ‘He took a stone and threw it at the snake. It died.’ (KHW-TMAQ-AA:179-180)

Very similar distinctions are being made in the Kalasha tense-aspect system. For instance, two distinct past-time referring forms of ‘were’ are used. In (??), the past actual *asini* is used as the speaker points to the domestic animals as witnessed entities in the real world. In (??), the past inferential *asta* instead is used, as a means for the narrator to portray the participants in the story as the creations of fiction.

(22) Kalasha – Past Actual

tara as-ini gak tara gordok hāš.
there.REM.SPC be.PST.ACT-3PL cow there.REM.SPC donkey horse
‘There were cows, donkeys and horses there.’ (Heegard2015)

(23) Kalasha – Past Perfective Inferential

ek ławak ek šara malgiri asta.

one fox one markhor friend be.PST.INFER.3

‘Once a fox and a markhor were friends.’ (Heegard2015)

Kalasha is not a common second language of Palula speakers. However, considerable interaction apparently took place between the communities in the past, and there is reason to believe that Kalasha, at least in part of what is now Palula-speaking territory, is exerting substratal influence, as conversions from the traditional Kalasha religion often resulted in a gradual language shift from Kalasha

to one of the surrounding languages spoken by a Muslim majority population, Palula in those days being one of the main candidates (Cacopardo2001; Decker1992).

Although the distinction in Palula also could have been inherited, it is equally probable to have been areally influenced and/or reinforced. Apart from evidentiality-related distinctions in the verbal systems of Khowar and Kalasha, a few other languages in the immediate region reflect similar contrasts in their TMA systems. There are for instance epistemic verb forms in regionally influential Persian varieties (Perry2000; WindfuhrPerry2009). Bashir2010 (Bashir2010; Bashir2009) also mentions the perfect in the Iranian language Wakhi as well as in Tajik Persian as specifically correlated to indirect evidence. Another possible parallel is the contrastive use of a proximate vs. a distal perfect in Pashai, another Indo-Aryan language (or perhaps more correctly, group of related language varieties), spoken across the border in northeastern Afghanistan (Lehr2014). Perhaps this, in turn, is part of a considerably larger areal configuration in Western and Central Asia, something that Dahl1985 (Dahl1985) is hinting at, when he describes the extension of perfects into the realm of quotatives as an areal phenomenon with an approximate geographical correlation with the former Ottoman Empire (including e.g. Kurdish and Turkish), but it goes without saying that the secondary use of perfects for such functions has indeed been verified cross-linguistically much farther afield (Aikhenvald2004).

As for the mood markers described in Section ??, they are to a varying extent grammaticalized in Palula, which is reflected in the textual occurrence of these markers (Table ??). It should be noted, however, that identical forms may occur in other uses in the material.

Table 1: Text occurrences of *thaní*, *maní* and *ga*, and of forms related to them. (In a text corpus consisting of 76 transcribed and annotated Palula texts, mainly narrative.)

	Utterance- final	In other uses	As other verb forms	Total
<i>thaní</i>	117	51	109	277
<i>maní</i>	61	14	351	426
<i>ga</i>	20	117	-	137

The quotative marker *thaní* is the most frequent of the three. The relatively frequent occurrence of the same form but in other uses is largely accounted for by its post-nominal “naming” function, as shown in example (??) above. It is highly grammaticalized as a quotative, but its co-occurrence with a preposed (and “borrowed”) *ki*-complementizer, on the one hand, and the alternative construction

with *ki* altogether lacking an quote-final *thaní*, as in (??), on the other hand, points to an ongoing competition with the “new” Persian-derived *ki*-strategy (further reinforced by the corresponding construction in Urdu), in which the *thaní*-less construction most likely is winning out in the long run: ...*thaní* (as in (??)) > *ki*...*thaní* (as in (??)) > *ki*... A similar development has been observed in neighbouring Kalasha with regard to the indigenous utterance-final *ghōi* and the “imported” utterance-initial *ki* (Bashir1988).

(24) Palula – quotative

dun-áaṭ-u bh-íl-u hín-u ki aní ba
 think-AG-MSG become-PFV-MSG be.PRS-MSG COMP 3FSG.PROX.NOM TOP
kateen-í júánd.
 what.kind-F life
 ‘He started thinking, “What a life!”’ (PHL-Katamosh:057)

Formally, *thaní* is a converb form (or conjunctive participle) of the verb *thané*- ‘call, say’. In contemporary Palula, few other forms of that verb are in fact in use, once more confirming the level of grammaticalization that this converb has reached. Bashir1996a found in a study of SAY-quotatives, and similarly derived markers, that they are present in many of the region’s languages (and beyond), and argues for areal convergence. Examples of such markers include: Indus Kohistani (Indo-Aryan) *karee* (Lubberger2014); Kalasha (Indo-Aryan) *ghōi* (Heegard2015); Khowar (Indo-Aryan) *reé* (Bashir1996a); Gawri (Indo-Aryan) *är(o)* (Baart1999); Dameli (Indo-Aryan) *gani* (Perder2013); Gilgiti Shina (Indo-Aryan) *theé* (RadloffShakil1998); Balti (Tibeto-Burman) *zer/zere* (Bashir1996a; Jones2009a); and possibly Burushaski (isolate) *nusé(n)* (Bashir1996a), although a pre-posed *ke* is the preferred marker of direct speech (Berger1998). While many of them are indeed grammaticalized forms of a verb with the meaning ‘say’, a number of them are instead ultimately related to a ‘do’-verb; that is likely the case with Palula *thaní* (cf. *the-* ‘do’), the corresponding markers in other Shina varieties, as well as Indus Kohistani *karee* (< *kar-* ‘do’).

Dameli is another geographically close neighbour of Palula, spoken in the next valley to the south. Here, too, the quotative, which is derived from a converb of ‘say’, is extended to predicates of cognition, as in (??), and additionally is postpositioned to a noun phrase with the meaning ‘called, thus named’, as in (??), just like in Palula.

(25) Dameli – quotative

mãâtêẽ daçi-na mãã-i tukuri kii gig-een gani.
 around see-IPFV.3MSG 1SG.POSS-F basket who take-PFV.3PL QUOT
 ‘He looks around, thinking, “Who took my basket?”’ (Perder2013)

- (26) Dameli – ‘called’
aats-i baloo daaš gani ek baat daro.
 come-CV big rock QUOT one stone COP.INAN.IPFV.3
 ‘Having come there, there is a big stone called the great rock.’
 (Perder2013)

The Palula hearsay marker *maní*, is of lower frequency in the text corpus, and is possibly grammaticalized to a lesser extent than *thaní*. When it is used it is often in order to emphasize the non-witnessed, and often questionable (in the mind of the speaker), character of the particular event or situation thus marked, rather than to signal just any instance of reported speech or hearsay. Note that *maní* in (??) only occurs after the second finite verb of this utterance, not after the first.

- (27) Palula – hearsay
eesé baačaá-ii bóoš zára kuṛiina heens-íl-im de, tasii
 REM king-GEN twelve thousand.PL women.PL live-PFV-FPL PST 3SG.GEN
áašt zára kuṇaak-á heens-íl-a de maní.
 eight thousand.PL child-PL live-PFV-MPL PST HSAY
 ‘This king had twelve thousand wives, and is said to have had eight thousand children.’ (PHL-AboutAKing:007-008)

The marker *maní* is like *thaní* derived from a converb, in this case of the verb *mané*- ‘speak, recite, say’. In the corpus, quite a number of other uses of this verb occur, including a few instances of it as a non-grammaticalized converb, entirely homophonous with the hearsay marker. An example of the latter is seen in (??), where *maní* heads a subordinate clause with a subsequence reading, thus repeating the preceding lexical finite verb ‘said’ in its converb form ‘having said’, simply corresponding to ‘then’ in English.

- (28) Palula – *maní* as converb
iñç-a maníit-u hín-u ki šoo ba tu thulí
 bear-OBL say.PFV-MSG be.PRS-MSG COMP good.MSG TOP 2SG.NOM fattened
wháat-u heentá, ma tu kh-úum. eendáa man-í
 come.down.PFV-MSG CONDL 1SG.NOM 2SG.NOM eat-1SG like.that say-CV

ba inç áak keeñ-í šiiti the gúum hín-u.

TOP bear IDEF cave-OBL inside to go.PFV.MSG be.PRS-MSG

‘The bear said: “Good, if you come down fattened I will eat you.” Then [lit. Having said that,] the bear went into a cave.’ (PHL-Katamosh:025-026)

Reportative markers with similar functions (and in many cases with a similar history) have been noted for other languages in the region, e.g. Indus Kohistani *lee* (Lubberger2014); Kati (Nuristani) *mem* (Strand2016); Waigali (Nuristani) *-le* (Degener1998); and Balti/Purik (Tibeto-Burman) *-lo* (Jones2009b; Zemp2013).

In the example from Indus Kohistani in (?), the speaker quotes one of her sons speaking to her at the time when he had come home after the big earthquake in 2005. The reportative *lee* cliticizes to the finite verb in each of the two clauses.

(29) Indus Kohistani – reportative

iskul-āi kūr-mur bazithe=lee, hāā maasmā bút bāč
school-GEN.F wall.FPL-ECHO go.PRS.PFV.MPL=HSAY and child.PL all saved
hu-úthe=lee.

become-PRS.PFV.MPL=HSAY

‘The walls of the school and stuff went down, but the children all escaped.’ (Lubberger2014)

There are only a few, and in some cases rather dubious, instances of *ga* as an utterance-final marker of inferentiality in the Palula corpus. It is most likely related to the homophonous indefinite-interrogative pronoun *ga* ‘what, any, what kind of, any kind of’. Probably, it was first used in the utterance-final position as a tag. The assumption here is that it is even less grammaticalized or established than *maní* and remains somewhat varying in its application: as a request for confirmation, marking suspense or surprise, etc. The particle *bo* in Kohistani Shina, see example in (?), has similar semantics and distribution (SchmidtKohistani2008).

(30) Kohistani Shina – presumption

mi qææs jo kudí mútho khári níiz-ij-aan-o bo.

my guess some where tree under sleep-ABSP-is-3MSG ASS

‘I guess he must be asleep under a tree somewhere.’

(SchmidtKohistani2008)

Careful elicitation (in (?)), in which imaginary situations were described, confirms the emerging paradigmatic contrast ZERO vs. *maní* vs. *ga* as corresponding to a) an event directly observed by the speaker, b) an event heard about but not seen by the speaker c) an inference/assumption on the part of the speaker.

- (31) Palula minimal contrasts: direct (a) vs. hearsay (b) vs. inference/assumption (c)

- a. *kir dít-u hín-u.*
 snow put.PFV-MSG be.PRS-MSG
 ‘It has snowed.’ [directly observed] (PHL-20157027-elic:001)
- b. *kir dít-u hín-u maní.*
 snow put.PFV-MSG be.PRS-MSG HSAY
 ‘It has snowed.’ [not seen but heard from sb else]
 (PHL-20157027-elic:002)
- c. *kir dít-u hín-u ga.*
 snow put.PFV-MSG be.PRS-MSG INFER
 ‘It has snowed.’ [not directly observed but inferred from other evidence, e.g. snow on somebody else’s boots]
 (PHL-20157027-elic:003)

Interestingly, the same elicitation task resulted in a two-way differentiation in neighbouring Khowar (??).

- (32) Khowar minimal contrast: direct (a) vs. hearsay (b)/assumption (c)

- a. *him arer. / him kor-i šer.*
 snow do.PST.3SG snow do-CV be.INAN.PRS.ACT
 ‘It has snowed.’ [directly observed] (KHW-20157027-elic:001)
- b. *him kardu bir-ai.*
 snow do.PPTC become.PST.INFER-3SG
 ‘It has snowed.’ [not seen but heard from sb else]
 (KHW-20157027-elic:002)
- c. *him kardu bir-ai.*
 snow do.PPTC become.PST.INFER-3SG
 ‘It has snowed.’ [not directly observed but inferred from other evidence, e.g. snow on somebody else’s boots]
 (KHW-20157027-elic:003)

The discourse particle *xu* is most likely a loan from Pashto. In Pashto, *xo* is used as an emphatic particle (a second position clitic), with the approximate meaning ‘in fact’. In Pashto as well as in Palula *xo/xu* is homophonous, or alternatively polysemous, with a clause-initial adversative conjunction ‘but’. The examples

in (??) and (??) illustrate the strikingly similar uses and clause positions of the particle in the two languages.

- (33) Palula – use of the particle *xu*

lo tu keé kh-óo, lo xu thii
 3MSG.DIST.NOM 2SG.NOM why eat-3SG 3MSG.DIST.NOM EMPH 2SG.GEN
bhróo atshariit-u thii qóom.
 brother Ashreti-MSG 2SG.GEN tribe
 ‘Why would he eat you? He is your Ashreti brother and of your own
 tribe.’ (PHL-GhaziSamad:019-020)

- (34) Pashto – use of the particle *xo*

dā xo zmā wror day, dā bel sar-i wror
 this.DIR EMPH 1SG.GEN brother be.PRS.3MSG of other man-OBL brother
na.
 NEG
 ‘He is in fact my brother, not some other man’s brother.’ (David2013)

A parallel pattern of use has also been reported for *xu* in Dameli, another neighbouring Indo-Aryan language (Perder2013), and similar sets of particles in many languages in the region (especially to the west) have been described, for instance in Nuristani Waigali by Degener1998 and Indo-Aryan Gawri (Baart1999). Degener1998 describes one of the particles in Waigali, *be*, as for instance signalling empathy or some pre-understanding for a particular situation that has arisen. In the example in (??), there is also a component of reproach, again difficult to find a good equivalent for in English but somewhat easier in German (which like Swedish has its own set of modal particles); *be* frequently corresponds to German “doch”, but in individual examples Degener1998 also offers the translations “bloß”, “aber”, “bestimmt”, “also”, “nun”. Some of those uses seem to overlap with Palula *xu*, others with *ba*.

- (35) Waigali – use of the particle *be*

yi manaša be ämeba pūt süräy.
 this man empty 1pl.gen way blocked
 ‘This man has apparently blocked our way. [Dieser Mann hat doch
 unseren Weg versperrt!]’ (Degener1998)³

³No morpheme glossing is provided in the source, only a free translation of the sentence as a whole. The word glossing and the English translation is my own.

There is evidence for a relatively high degree of “borrowability” across languages (Svard2014; LiljegrenSvard2017; Perder2013) with these types of markers, pointing e.g. to a possible diachronic link between Waigali *be* and Dameli/-Palula *ba*. Probably, the use of such modal or discourse particles is a relatively new strategy of signalling evidentiality and inferentiality as far as Palula is concerned.

7 Summary

Evidential marking and evidentiality-related distinctions in Palula are, like in many Indo-Aryan languages, observable in so-called scattered coding. It is not forming an independent system, and it is often optional or comes about as a secondary effect of the coding of other main functions. It is most obviously reflected in three separate parts of the language system, namely a) as a component, or byproduct, of tense—aspect differentiation, b) by a subset of utterance-final mood markers, and c) by (at least) one member of a set of second-position discourse particles. In the case of tense—aspect, the choice between a simple past and a perfect, when referring to a past-time event, is at least partly correlated with direct (witnessed) vs. indirect (non-witnessed) evidence. A less stable correlation for present-time reference can be observed between the use of present tense and direct evidence, and between the use of future tense and indirect evidence. Three mood markers have epistemic functions: *thaní* is a quotative; *maní* is a hearsay (or possibly mirativity) marker; and *ga* indicates inferred or assumed knowledge, although the latter seems only marginally grammaticalized. The second-position discourse marker *xu* signals surprise or emphasis.

As for tense-aspect and its correlation with direct vs indirect evidence, a similar contrast was already part of the ancestral Indo-Aryan tense system. There are also plenty of modern-day parallels in the immediately surrounding region, in which the use of a perfect serves as a marker of indirect evidence. That has for instance been noted in regional varieties of Persian as well as in Iranian Wakhi and Indo-Aryan Pashai. A highly grammaticalized evidentiality differentiation that is an integral part of the tense-aspect system, has been described for neighbouring Khowar and Kalasha, two languages that even in other respects have exerted influence over Palula, in the first case mostly as a superstrate, and in the latter as a substrate.

The mood markers—involving an emerging three-way paradigmatic contrast—are to varying degree grammaticalized in Palula. Two of them are derived from converbs meaning ‘call, say’ and ‘speak, say’, respectively, another tendency with

numerous parallels in the wider region, and in several other Indo-Aryan languages. The third, and possibly less grammaticalized, marker is probably derived from an indefinite-interrogative pronoun ‘what, any’.

The discourse particle *xu* is most likely a (relatively recent) loan from Pashto, a language of wider communication, but has become part of a set of discourse particles that seem to be particularly important and extensive in a subareally defined group of languages in the Pakistan-Afghanistan borderland to which Palula belongs.

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Abbreviations

1	first person		
2	second person		
3	third person		
ABSP	ablative-superessive		
ACC	accusative		
ACT	actual		
AG	agentive		
ASS	assumption		
COMP	complementizer		
CONDL	conditional (low)		
CONJ	conjunction		
COP	copula		
CV	converb		
DAT	dative		
DIR	direct		
DIST	distal	Q	question marker
ECHO	echo formation	QUOT	quotative
EMPH	emphasis	REFL	reflexive
EMPT	emphathy	REM	remote
F	feminine	SEP	separative
GEN	genitive	SG	singular
HSAY	hearsay	SPC	specific
IDEF	indefinite	SUB	subordinator
IMP	imperative	TOP	topic
INAN	inanimate		
INF	infinitive		
INFER	inferential		
IPFV	imperfective		
M	masculine		
NEG	negation		
NOM	nominative		
OBL	oblique		
PFV	perfective		
PL	plural		
POSS	possessive		
PPTC	past participial		
PROX	proximal		
PRS	present		
PST	past		

Chapter 4

On the existence of egophoricity across clause types in Totoró Namtrik

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The Barbacoan languages are known for having egophoricity systems (Dickinson2000, Curnow2002a, CurnowLiddicoat1998), which exhibit a verbal marking pattern in which “speaker subjects in statements are marked the same way as addressee subjects in questions” (Curnow2002a). Nevertheless, the existence of such a pattern in Namtrik had not been recognized. A recent paper by Norcliffe2018, claims that in the Guambia variety of Namtrik “the verb marking diverges from what might be considered canonical egophoricity marking, since it does not occur when the subject is second person in questions” (Norcliffe2018). The current paper presents novel data from the highly endangered variety of Totoró Namtrik and argues that this variety possesses a set of verbal suffixes exhibiting the cross-linguistically recurrent pattern of an egophoricity distribution. The goal of this paper is to show that although Namtrik’s egophoricity system is similar to the systems in other languages, it was not analyzed as a fully fledged egophoricity system in the past because the egophoricity suffixes are not always easily recognizable in interrogative clauses due to morphosyntactic and phonological processes. Additionally, this paper shows that Namtrik has an “undergoer” egophoric marker which exhibits a pattern of egophoricity distribution, shifting from speaker to addressee perspective in interrogatives.

1 Introduction

Namtrik, also known as Guambiano, is a Barbacoan language (CurnowLiddicoat1998) spoken in the Colombian Andes. Traditionally, Namtrik speakers live in four so called *resguardos* (settlements recognized by Colombian State, with territorial autonomy and ruled by traditional authorities named *Cabildo*): Guambia, Ambaló, Quizgó and Totoró. These settlements are situated in two towns, Silvia and



Totoró, located in the department of Cauca, in the Southwest of the country. Currently most researchers consider Totoró and Guambiano to be two dialects of the same language (CurnowLiddicoat1998), which the speakers refer to as Namtrik, or Namuy Wam ‘our sound’ (GonzalesCastaño2013).

This paper will focus on a highly endangered variety of Namtrik, spoken in the community of Totoró. According to a census conducted by the authorities of the community in 2013, there are 76 native speakers (approximately 1% of a total population of 7023 people) who are all over 50 years in age (GonzalesCastaño2013). In Totoró the use of Spanish has displaced Namtrik in all daily interactions and there are now two generations of monolingual Spanish speakers. There is no intergenerational transmission of the language. Namtrik in Totoró is clearly more endangered than in Guambia (Guambiano dialect), which numbers about 8000–9000 speakers (Adelaar1991).

The data presented in this paper, beside a few examples constructed in elicitation, consists mostly of naturally-occurring examples. This data comes from two sources. The first is a lexicon collected between 2006 and 2008 within the frame of workshops on morphosyntax of Namtrik for community teachers and Namtrik speakers, which were directed by by Tulio Rojas Curieux and Beatriz Vasquez. One of the results of this work was a lexicon (382 words and 448 sentences) edited and published in 2009 as “Léxico de la lengua Namtrik de Totoró” (RojasCurieuxetal2009). The other source of this data is a video and audio corpus, consisting of ten hours of natural speech data and additional elicitation data, collected between 2015 and 2017, in the framework of the project “Documentation and Description of Namtrik, an endangered language of the Colombian Andes” founded by HRELPD-SOAS.

The Barbacoan languages are known for their egophoricity systems (Dickinson2000; Curnow2002a; CurnowLiddicoat1998; Floyd2018), which “employ special verb forms [...] where the subject (and/or another privileged argument role) is first person in declaratives or second person in interrogatives” (SanRoque2018). Available grammatical sketches based on the Namtrik varieties of Guambia and Totoró postulate the existence of a subject agreement marking system, which distinguishes between first person ‘locutor’ singular and plural and second and third person ‘non locutor’ (Pabon1989; TrivinoGarzon1989; Vasquez1987; Vasquez1988).

According to Vasquez1987 (Vasquez1987; Vasquez1988) and TrivinoGarzon1989 Guambiano variety of Namtrik presents an agreement verbal marking distinguishing between a speaker singular subject marker *-(a)r*; a speaker plural subject marker *-er* and a non-speaker marker, singular and plural *-(a)n*. In the case of the Totoró variety, besides a different speaker singular subject marker *-(o)r*,

Pabon1989 proposes the same forms for the other egophoricity markers. In these previous descriptions of Namtrik (**Pabon1989**; **TrivinoGarzon1989**; **Vasquez1987**; **Vasquez1988**), there is no information available about the behavior of egophoricity markers in questions; nevertheless the data presented show clearly that declaratives in Namtrik follow the expected pattern of an egophoricity system.

The existence of an egophoricity system in Namtrik was not argued for until a recent paper by **Norcliffe2018**, which is based on the Namtrik variety from Guambia. **Norcliffe2018** notes, however, that while declaratives in Guambiano present the expected egophoricity pattern, the egophoricity markers do not appear in interrogatives. Nevertheless “layers of egophoric or egophoric-like marking are visible in Guambiano’s grammar” (**Norcliffe2018**), in Guambiano the verb marking pattern “does not exhibit the canonic egophoric pattern, since the egophoric markers do not appear in questions” (**Norcliffe2018**).

The first goal of this paper is to show that the Totoró variety of Namtrik (TNT) possesses an egophoricity verbal marking pattern across clause types which “distinguishes speakers from non-speakers in declaratives, and addressees from non-addressees in interrogatives” (**Creissels2008**); however, some morphophonological processes make it occasionally difficult to recognize this pattern in interrogative clauses. A second goal is to demonstrate that Namtrik in Totoró has an “experiencer” egophoric marker, which exhibits an egophoricity distribution, shifting from speaker to addressee perspective in interrogatives. Although I will show some usage patterns of the egophoricity markers, the semantic analysis falls outside the scope of this paper.

This paper gives a first account of the egophoricity system in TNT, beginning with a discussion on the morphophonological processes which make it difficult to recognize egophoricity markers in interrogatives. It then focuses on the description of the general usage pattern of egophoricity markers across clause types. And it concludes with the description of the use of the experiencer egophoric marker and the distribution of this marker in question predicate constructions.

2 Morphophonological processes affecting egophoricity markers in Totoró Namtrik

Namtrik has a variety of morphophonological processes that occur at morpheme boundaries, which have not been fully argued for in previous descriptions. Understanding these processes is crucial for not only the description of the egophoricity system but also the description of Namtrik’s grammar in general.

In TNT, there are two different morphophonological processes which make the

presence of egophoricity markers in interrogative clauses unrecognizable, and which will be discussed in this section: vowel deletion in the context of vowel coalescence, and a process affecting the final consonant of egophoricity markers in interrogative clauses.

Writing about the egophoricity system in Guambiano, Norcliffe2018 proposes the existence of a set of verbs that present an alternation correlated with the existence of a vestigial egophoricity contrast in Guambiano, which show palatalized consonant forms in ego environments. In this section it will be argued that this alternation is not directly correlated with Namtrik’s egophoricity system but with morphophonological processes.

2.1 Vowel deletion

The Totoró variety of Namtrik (TNT) contains two egophoric suffixes: singular *-or* and plural *-er*¹, and one non-egophoric suffix: *-textitan*, as is shown in the Table .

Table 1: Egophoricity markers in Totoró Namtrik

	SG	PL
EGO	<i>-or/-ar</i>	<i>-er</i>
NON EGO		<i>-an</i>

The egophoricity markers are fully visible when they follow a verb stem ending in a consonant, as shown the examples in the Table ??, which presents verb stems ending in a consonant, hosting the egophoric markers singular *-or* and plural *-er* and the non-egophoric marker *-an*.

¹The egophoric marker *-ar* which has been reported in Guambiano variety of Namtrik is also attested in the Totoró variety in very few examples in the data. This egophoric marker has very restricted uses, occurring only in constructions with auxiliary verbs in declarative clauses, as is shown in example (??). The egophoric marker *-ar* was not attested in interrogative clauses. For these reasons it falls outside the scope of this paper.

- (i) Namtrik (LEX1/118)
ye ma-ap wa-ar
 potato eat-DUR seat.SG-EGO.SG
 ‘I’m eating potatos’

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Table 2: Egophoricity markers on verb stems ending in consonant

VERB	V-EGO.SG	V-EGO.PL	V-NONEGO
<i>par-</i> ‘cut’	<i>par-or</i>	<i>par-er</i>	<i>par-an</i>
<i>trup-</i> ‘lose’	<i>trup-or</i>	<i>trup-er</i>	<i>trup-an</i>
<i>nen-</i> ‘cook’	<i>nen-or</i>	<i>nen-er</i>	<i>nen-an</i>
<i>kuakl-</i> ‘boil’	<i>kuakl-or</i>	<i>kuakl-er</i>	<i>kuakl-an</i>
<i>kutr-</i> ‘wake up’	<i>kutr-or</i>	<i>kutr-er</i>	<i>kutr-an</i>

In previous descriptions of Namtrik’s verbal morphology (Pabon1989; TrivinoGarzon1989; Vasquez1987, Vasquez1988; Norcliffe2018), the existence of allomorphs of the egophoricity markers has been postulated. The egophoric singular marker has two realizations *-ar* and *-r* (*-or* and *-r* in the case of Totoró) and the non-egophoric marker has the realizations *-an* and *-n*. However, the phonological context determining these realizations has not been clearly identified, with the vowel of the suffix described as sometimes being absent “depending on the value of the final vowel of the verb stem” (Norcliffe2018).

Table ?? shows examples of the TNT egophoric singular marker *-or*, the egophoric plural marker *-er* and the non-egophoric marker *-an*, following verb stems ending in vowel. Examples in Table ?? show that in all the cases either the final vowel of the verb stems or the initial vowel of the egophoricity markers is absent. The purpose of this section is to clarify the phonological conditioning of this process of deletion.

Table 3: Egophoricity markers on verb stems ending in vowel

VERB	V-EGO.SG	V-EGO.PL	V-NONEGO
<i>ña-</i> ‘spin’	<i>ñar</i>	<i>ñer</i>	<i>ñan</i>
	<i>ña-or</i>	<i>ña-er</i>	<i>ña-an</i>
<i>ki-</i> ‘be’	spin-EGO.SG	spin-EGO.PL	spin-NONEGO
	<i>kor</i>	<i>ker</i>	<i>kin</i>
	<i>ki-or</i>	<i>ki-er</i>	<i>ki-an</i>
<i>tso-</i> ‘lay.SG’	be-EGO.SG	be-EGO.PL	be-EGO.PL
	<i>tsor</i>	–	<i>tson</i>
	<i>tso-or</i>		<i>tso-an</i>
	lay-EGO.SG		lay-NONEGO

Although in TNT it is possible to find sequences of two vowels within lexical stems or suffixes, the language puts constraints on vowel sequences at morphological boundaries. When a stem or a suffix ends in a vowel and it is followed by a suffix beginning in a vowel, one of the two vowels in this sequence is elided. The identity of the elided vowel does not depend upon the position of the vowels in the sequence, but on the particular combination of vowels. Table ?? shows the combinations attested in the corpus and the results of vowel elision, as well as an example for each pattern.

These patterns of vowel elision may be summarized in the rule illustrated in the Figure 1, which also shows that there exists a vowel hierarchy in TNT with respect to this morphophonological process. In this hierarchy the vowels /i/, /e/, /o/ and /u/ are stronger than the high central vowel, which is stronger than the vowel /a/.

The process of vowel elision was identified in TNT by Pabon1989. Pabon1989 proposes that TNT puts constraints on the combination between high vowels and high or middle high vowels (Pabon1989). Nevertheless, the constraints on the vowel sequences at morphological boundaries does not concern only these combinations of vowels, as is shown in the examples in the Table ?. This is a regular and widespread phonological process in the language and does not solely affect the egophoricity markers.

As noted above, the process of vowel elision is found with other suffixes of the form -V(C) or -C(V) as well as the egophoric and non-egophoric markers. Every morpheme ending or beginning with a vowel can lose its last phoneme, as is the case of the vowel /i/ in the morpheme -*mi* ‘NEG’ in coalition with the morpheme -*eli* ‘NMZ.PL’ in example (??), or its first phoneme as example (??) shows in the case of the vowel /e/ in the morpheme -*eli* ‘NMZ.PL’ affixed to the name *nosrka* ‘brother’.

- (1) Totoró
ma-mi-eli
 eat-NEG-NMZ.PL
 ‘?’

- (2) Totoró
nosrka-eli
 brother-NMZ.PL
 ‘?’

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Table 4: Possible combinations of phonemic vowels

attested combinations	outcome	example
<i>io</i>	<i>o</i>	<i>kor</i> <i>ki-or</i> COP.EGO.SG
<i>oi</i>	<i>o</i>	<i>tson</i> <i>tso-an</i> lie-NOEGO
<i>ao</i>	<i>o</i>	<i>ñor</i> <i>ña-or</i> spin-EGO.SG
<i>oa</i>	<i>o</i>	<i>pon</i> <i>po-an</i> arrive-NONEGO
<i>ua</i>	<i>u</i>	<i>atrun</i> <i>atru-an</i> come-NONEGO
<i>ui</i>	<i>u</i>	<i>llusruk</i> <i>llusru-ik</i> spill-NMZ.SG
<i>ia</i>	<i>i</i>	<i>kimin</i> <i>ki-mi-an</i> COP-NEG-NOEGO
<i>ia</i>	<i>i</i>	<i>kip</i> <i>ki-ap</i> sleep-DUR
<i>ea</i>	<i>e</i>	<i>kosrep</i> <i>kosre-ap</i> teach-DUR
<i>ii</i>	<i>i</i>	<i>yalik</i> <i>jali-ik</i> black-NMZ.SG
<i>ie</i>	<i>e</i>	<i>ker</i> <i>ki-er</i> COP-EGO.PL
<i>ae</i>	<i>a</i>	<i>nosrkali</i> <i>nosrka-eli</i> brother-NMZ.PL

This process makes some morphemes unrecognizable in certain phonological contexts. This is the case of the imperative second person singular marker *-i* which is visible when attached to a verb stem ending in consonant, as shown the examples (??) and (??), but fully deleted following a vowel ending verb stem as shown the example (??).

- (3) Totoró (namtrik_122/13, elic)
ñi kilka-wan isik-i
2 note.book-OM store-IMP.SG
'store your notebook!'
- (4) Totoró (namtrik_036/9)
yu-sri amp-i
LOC-DIR go.PL-IMP.SG
'you come here!'
- (5) Totoró (elic)
kosro-i
stand.up-IMP.SG
'Stand up!'

The only sequence which has the vowel /a/ as outcome of the phonological process of vowel deletion is the sequence /ae/. The vowel /a/ is the 'weakest' one in the hierarchy which determines this process in TNT. This is important to keep in mind for the description of egophoricity system in TNT; since the non-egophoric suffix *-an* begins with /a/ and is often affected by the process of vowel elision, which makes it often difficult to recognize, especially in interrogative clauses. As we will see later, in Namtrik, the egophoricity markers lose their final consonant in interrogative clauses, so the non-egophoric suffix *-an* suffers a total deletion in questions following a vowel-final verb stem. This is similar to the deletion of the imperative second person singular marker *-i* in this phonological context, as shown the example (??).

2.2 Consonant deletion of the egophoricity markers in interrogative clauses

Question clauses in TNT are marked by a rising intonation, a high pitch on the last syllable of the clause and the deletion of the final consonant of the egophoric

and non-egophoric suffixes or, less frequently, the replacement of the final consonant by a glottal stop /ʔ/. The following set of examples shows two sentences using *-an* – one declarative and one interrogative – in similar kinds of predicate structure and with the same verb stem.

In the second example of each set, it can be seen that the final consonant in the non-egophoric marker *-an*, following verb stems ending in consonant – *pen-* ‘to fall’ in (??) and *pasr-* ‘stand SG’ in (??) – is still recognizable in the surface form of the interrogative clauses.

- (6) Namtrik (namtrik_052/325)

uni-chik pen-an
child-DIM fall-NOEGO
‘a boy fell’

- (7) Namtrik (namtrik_483/057)

chu pen-an
where fall-NOEGO
‘Where did it fall?’

- (8) Namtrik (elic)

yu pasr-an
LOC stand.SG-NOEGO
‘It is here’

- (9) Namtrik (namtrik_058/112)

chi-ne ma-ríp pasr-an
Q-3 do-DUR stand.SG-NOEGO
‘What is she doing?’

Although it is possible to recognize the non-egophoric marker *-AN* in interrogative clauses when it follows a verb ending in consonant, when it follows a vowel-final verb it is completely omitted, as is illustrated in the following set of examples. The examples (??) and (??) (a declarative and an interrogative clause), show the non-egophoric marker *-AN* hosted by the copula *ki-*. In the example (??) the surface form of the verb seems to have a bare stem form, without any verbal marker. However, the absence of the non-egophoric marker is explained by the phonological processes of deletion of vowels in coalescence and the deletion of the final consonant of the egophoricity markers in interrogative clauses.

- (10) Namtrik (namtrik_034/64)

i-ni tiwei ki-an

DIST-3 just COP-NOEGO

‘It is just that’

- (11) Namtrik (namtrik_058/124)

i-ni tiwei ki-an

DIST-3 only COP-NOEGO

‘Is it only that?’

2.3 Deletion of the non-egophoricity marker in interrogative clauses

As is claimed by SanRoque2018, writing about interrogativity in evidential and egophoricity markers, a formal asymmetry with distinct interrogative morphemes or constructions is attested in several unrelated languages. Similarly in TNT there are two different question constructions, one for interrogatives involving third person subjects and another for interrogatives involving first and second person subjects.

Aside from the deletion of the final consonant of the non-egophoric marker and the rising intonation, the predicate question construction involving third person subjects has the same morphological and syntactic structure as the declarative predicate construction, as is shown in the following set of examples. Examples (??) and (??) show a question and a declarative clause with similar kinds of predicate structure and the same verb stem.

- (12) a. Namtrik (namtrik_059/179)

kuakl-ap pasr-an

boil-DUR stand-NOEGO

‘Is it boiling?’

- b. Namtrik (namtrik_083/91, elic)

pi=pe mani [kuakl-ap pasr-an]

water=PD now boil-DUR stand.SG-NONEGO

‘The water is boiling’

- (13) a. Namtrik (namtrik_059/43)

karopik kucha atru

governor too come-noego

‘Is also the governor coming?’

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b. Namtrik (LEX1/104)

wasri atru-an
 sparrowhawk come.SG-NONEGO
 ‘the sparrowhawk comes’

The question predicate construction involving first and second person subjects is a complex predicate construction consisting of a main verb stem and an obligatory copular auxiliary *ki-* as is shown in the examples (??) (see also (??) and (??)). First and second person questions are marked additionally by the deletion of the final consonant of the non-egophoric marker and rising intonation.

(14) Namtrik (namtrik_031/94)

wasr-chik-yu=pe chi-ni wai=ki-or
 bag-DIM-LOC=PD Q-3 put-COP-EGO.SG
 ‘What did you drop in it?’

(15) Namtrik (namtrik_031/110)

chi-ne-ti sro amtru=ki-er
 Q-3-REST carry come.PL-COP-EGO.PL
 ‘What did they bring?’

(16) Namtrik (namtrik_045/140)

chu pasr-am=ki-an chi
 where stand.SG-IRR=COP-NOEGO Q
 ‘Where shall I put this?’

In questions involving a second person subjects and first person plural subjects, the egophoric suffixes *-or* and *-er* are still recognizable in the surface form of questions, since the vowels /o/ and /e/ are not affected by the process of vowel deletion as illustrated in examples (??), (??). However the non-egophoric marker *-an* is not visible in the surface form of the interrogative clauses involving a first person singular subject. Nevertheless, as we already mentioned, the omission of the non-egophoric marker in interrogatives is not related directly to the grammar of the egophoricity system but to the morphophonological processes of vowel deletion and the deletion of the final consonant of the egophoricity markers in interrogative clauses.

3 Verb alternation in verb stems ending in palato-alveolar consonant

Before describing the usage pattern of egophoricity markers across clause types in TNT, there is a final point to explore regarding morphophonological processes and their relationship with the egophoricity system. In the description of the morphophonology of the Guambia variety of Namtrik, Vasquez1987 proposes the existence of a set of verbs which alternate between two verb stem forms, one ending in palatal consonant and the other in dental-alveolar consonant. Recently Norcliffe2018, proposes that this alternation is correlated with the existence of a vestigial egophoricity contrast in Guambiano. This set of verbs would show palatalized consonant forms in ego environments.

Table ?? shows examples of verb stems ending in palato-alveolar consonants hosting suffixes beginning in a vowel: the egophoric markers singular *-or* and plural *-er*, the non-egophoric marker *-an*; the morpheme of durative (*-ip/-ip*) and the verb nominalizer *-ap*.²

Table 5: Verb alternant in verb stems ending in palate-alveolar consonant

VERB	V-EGO.SG	V-EGO.PL	V- NONEGO	V-DUR	V-NMZ
<i>pen-</i> ‘fall’	<i>peñ-or</i>	<i>peñ-er</i>	<i>pen-an</i>		<i>peñ-ip</i>
<i>kish-</i> ‘cry’	<i>kish-or</i>	<i>kish-er</i>	<i>kis-an</i>		<i>kish-ip</i>
<i>uñ-</i> ‘walk.SG’	<i>uñ-or</i>	—	<i>un-an</i>		<i>uñ-ip</i>
<i>amiñ-</i> ‘walk.PL	—	<i>amin-er</i>	<i>amin-an</i>		<i>amiñ-ip-</i>
<i>t-</i> ‘say’	<i>ch-or</i>	<i>ch-er</i>	<i>t-an</i>		<i>ch-ip</i>
<i>mut-</i> ‘drink, suck, kiss’	<i>mut-or</i>	<i>mut-er</i>	<i>mut-an</i>	<i>mut-ip</i>	<i>much-ap</i>
<i>kits-</i> ‘grind’	<i>kits-or</i>	<i>kits-an</i>	<i>kits-an</i>	<i>kits-ip</i>	<i>kich-ap</i>
<i>lall-</i> ‘reap’	<i>lall-or</i>	<i>laya-an</i>	<i>lall-er</i>		<i>lall-ip</i>
<i>lusr-</i> ‘build’	<i>lusr-or</i>	<i>lus-an</i>	<i>lus-er</i>		<i>lusr-ip</i>

As is shown in the examples in Table ??, when the verbs end in /t/, /n/ and /ʃ/, the final consonant of the verb stem is realized more alveolar: V (C palato-

²When the verb stem ends in the consonants /l/ /ʎ/ /n/ /ñ/ /tʃ/ /y/ /r/ the difference between the durative (*-ip/-ip*) and the verbal nominalizer *-ap* is neutralized and the morpheme *ip* fulfills both functions.

alveolar or alveolar#) _ a/ +alveolar. If the verb ends in a palato-alveolar affricate /tʃ/ or an alveolar affricate /ts/ the verb alternation is realized only when it is hosting the nominalizer *-ap*.

Furthermore, when the verbs are followed by a suffix beginning with a consonant, the alternation is no longer observed, even in ego environments, since it is caused by the first vowel of the suffix following the verb stem, as is shown in the following sets of examples. Examples (??)-(??) and (??)-(??) show the verbs *pen-* ‘fall’ and *kish-* ‘cry’ followed by the negation marker *-mi* and the egophoricity markers. The above analysis suggests that this alternation is not correlated with the egophoricity system but with a morphophonological process.

(17) *pen-* ‘fall’

- a. *pen-mi-or*
fall-NEG-EGO.SG
- b. *pen-mi-er*
fall-neg-ego.exp-noego
- c. *pen-mi-an*
fall-NEG-EGO.PL

(18) *kish-* ‘cry’

- a. *kish-mi-or*
cry-NEG-EGO.SG
- b. *kish-mi-er*
cry-neg-ego.exp-noego
- c. *kish-mi-an*
cry-NEG-EGO.PL

4 The general usage pattern of egophoricity markers in Totoró Namtrik

Up to this point I have discussed the morphosyntactic and phonological processes which often make the presence of egophoricity markers in interrogative clauses unrecognizable. These processes are mainly of two types: elision of vowels through vowel coalescence and consonant deletion in egophoricity suffixes in interrogative clauses. This section is dedicated to the discussion of the usage of egophoricity systems across clause types in TNT.

As noted above, egophoricity is canonically defined as a morphological category which marks speaker subject in statements and addressee subjects in questions in the same way. Awa Pit, another Barbacoan language, shows a prototypical egophoricity system (Curnow2002a), as is shown in Table ?? and in the following sets of examples of declarative clauses (??)-(??) and interrogative clauses (26)-(28). Comparing the two sets of examples, it is observed that the declarative clause involving a first person subject (??) is marked in the same way, with the egophoric marker *-s*, as the second person subject interrogative clause (??). These examples also show that in Awa Pit interrogatives involving first person subjects (??), are marked in the same way, with the non-egophoric marker *-y*, as the declarative clauses involving second person subjects (??).

Table 6: The general usage pattern of egophoricity markers in Awa Pit (Curnow2002a)

Person	Declarative form	Interrogative form
1	<i>-s</i>	<i>-y</i>
2	<i>-y</i>	<i>-s</i>
3	<i>-y</i>	<i>y</i>

(19) Awa Pit (Curnow2002a)

- a. (*na=na*) *pala* *ku-mtu-s*
 (1s.(NOM)=TOP) plantain eat-IMPF-EGO
 ‘I am eating plantains.’
- b. (*nu=na*) *pala* *ku-mtu-y*
 (2s.(NOM)=TOP) plantain eat-IMPF-N.EGO
 ‘You are eating plantains.’
- c. (*us=na*) *atal* *ayna-mtu-y*
 (3s.(NOM)=TOP) chicken cook-IMPF-N.EGO
 ‘He/she is cooking chicken.’

(20) Awa Pit (Curnow2002a)

- a. *min=ta=ma* *ashap-tu-y?*
 who-ACC=INT annoy-IMPF-N.EGO
 ‘Whom am I annoying?’

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- b. *shi=ma ki-mtu-s?*
 what=INT do-IMPf-EGO
 ‘What are you doing?’
- c. *min=ta-s a-mtu-y?*
 where=LOC-ABL come-IMPf-N.EGO
 ‘Where is he coming from?’

Table ?? show the general usage pattern of egophoricity markers in TNT. Although it is similar to the Awa Pit system it also presents some differences. The TNT egophoric system has a contrast in the egophoric suffixes between singular *-or* and plural *-er* which does not exist in the non-egophoric suffix *-an* and which is not observed in the other Barbacoan languages.

Furthermore, TNT’s system is not a fully symmetrical egophoricity system, since, as we already mentioned, there is a formal asymmetry with distinct interrogative constructions. TNT has two different predicate interrogative constructions, one for first and second person and another one for third person. In interrogatives involving first and second person subjects there is an obligatory copula auxiliary *ki-* which does not appear in interrogatives involving third person subjects.

Table 7: The general usage pattern of egophoricity markers in Totoró Namtrik

Person & Number	Declarative	Interrogative
1SG	<i>-or</i>	<i>ki-a(n)</i>
2SG	<i>-an</i>	<i>ki-o(r)</i>
3SG	<i>-an</i>	<i>-a(n)</i>
1PL	<i>-er</i>	<i>ki-a(n)</i>
2PL	<i>-an</i>	<i>ki-e(r)</i>
3PL	<i>-an</i>	<i>-a(n)</i>

Aside from these differences the TNT system has a usage pattern across declaratives and interrogative clauses which is very similar to other egophoricity systems, as is shown in Table 7 and as will be argued in this section.

4.1 Usage pattern of egophoricity markers in declaratives

TNT has two main kinds of predicate constructions: simple predicate constructions and complex predicate constructions. Simple predicate constructions, whose morphological structure is shown in Figure 2, are formed by a single verbal stem suffixed with the polarity marker, egophoricity markers and/or modal epistemic markers, as shown in examples (??), and (??).

- (21) Namtrik (namtrik_012/32)
ichente na=pe nam-or
entonces 1=PD enojarse-EGO.SG
'Whom am I annoying?'
- (22) Namtrik Totoró (RojasCurieuxetal2009)
na-wai ishuk=pe kumar-mi-an
1-GEN mujer=PD cantar-NEG-NOEGO
'My wife didn't sing'

In TNT simple predicate constructions do not carry aspectual morphology and the aspectual interpretation depends of the Aktionsart of the verb. While activities are interpreted as perfective past (??), states are interpreted as simple present (??).

- (23) Namtrik (namtrik_005/545)
Na-wai noshkai yauto-mai ya-an
1-GEN hijo Popayán-DIR ir.SG-NOEGO
'My son went to Popayán'
- (24) Namtrik (namtrik_083/10, elic)
an=pe mesa-yu war-an
plata=PD mesa-LOC acostado.PL-NOEGO
'The money is on the table'

Namtrik also has a wide range of complex predicate constructions which vary widely in their morphosyntactic structure and the semantic relationships between the verbs comprising the complex predicates. Figure 2 shows the minimal morphological structure of a complex predicate in TNT. Although V_2 and V_1 can be inflected with verbal morphology markers in complex predicates, there is a

clear excision between the kinds of markers that can be hosted by each one of the verbs in the complex predicate.

As is shown in the examples, the verb in V₁ position can host the polarity marker, egophoricity markers and/or modal epistemic markers, while the verb in position V₂ presents a non-finite, which can be inflected with the morpheme of prospective aspect (*-tr/-ch/-ntr*) PROS, the verbal nominalizers *-ik* NMZ.SG *-eli* NMZ.PL and the morpheme of durative aspect (*-ap/-ip/-ip*).

- (25) Namtrik (namtrik_036/39)
na-wai kek=pe kuall-ip pasr-an
 1-GEN marido-PD trabajar-DUR estar.parado.SG-NOEGO
 ‘My husband went to work.’
- (26) Namtrik (namtrik_034/73)
na isu-ap-ik wa-or
 1 pensar-DUR-NMZ.SG estar.sentado.SG
 ‘I think.’
- (27) Namtrik (namtrik_059/154)
yu misak incha=pe chineken paila-ntr-ap amp-mi-an
 LOC gente entonces nada bailar-PROS-DUR ir.PL-NEG-NOEGO
 ‘so, you guys don’t going to dance’

Although any verb of the langue can fill the position in complex predicates V₂ only a restricted set of verbs, which are shown in Table ??, can fill the position V₁. In complex predicates the morphologic structure of V₂ and the kind of auxiliary determine the modal and aspectual interpretation of the predicates. The complexity of the predicate constructions in TNT falls out of the scope of this paper, nevertheless it is important to keep in mind for the description of the egophoricity system that the verb in position V₁ host the egophoricity markers in complex predicates.

The canonical use of the egophoricity markers in declarative clauses is illustrated in examples (??)-(??). The canonical use of the egophoric singular marker *-or* in declaratives is illustrated by examples (??) and (??)³, which show that this marker is used in declaratives involving first singular person subjects. The canonical use of the egophoric plural marker *-er* in declaratives involving first person plural subjects is illustrated by examples (??) and (??).

³The data presented in this paper is available in the web site of the Endangered Languages Archive at SOAS University of London: <https://elar.soas.ac.uk/Collection/MPI1012401>.

Table 8: Auxiliary verbs in Totoró Namtrik

		SG	PL
Posture auxiliaries	seat	<i>wa-</i>	<i>putr-</i>
	stand	<i>pasr-</i>	<i>pīntr-</i>
	hung	<i>mekua-</i>	<i>mel-</i>
	lay	<i>tso-</i>	<i>war-</i>
Movement auxiliaries	go	<i>ya-</i>	<i>amp-</i>
	walk	<i>uñ-/un-</i>	<i>amin-/amiñ-</i>
	come	<i>atru-</i>	<i>amtro-</i>
	arrive	<i>po-</i>	
Others	copula	<i>ki-</i>	

- (28) Namtrik (RojasCurieuxetal2009)

mai-yu peñ-or
camino-LOC caer-EGO.SG
'I fell in the path.'

- (29) Namtrik (namtrik_012/54)

chente miim=pe na=pe uni-wan pay-or
then now-PD 1=PD child-OM ask-EGO.SG
'Then I asked the child.'

- (30) Namtrik (namtrik_031/107)

miim=pe yu wam-ia-ap pintr-er
now=PD here talk-REC-NFV stand.PL-EGO.PL
'Now we are talking here.'

- (31) Namtrik (namtrik_037/224)

na-m=pe pueblo-sri-mai amp-er
1-PL-PD town-DIST-DIR go.PL-EGO.PL
'We are going to town.'

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The canonical use of the non-egophoric *-an* for second and third person, is illustrated in examples (??)-(??). The non-egophoric suffix *-an* is shown in a sentence with a second singular person subject in example (??), in (??) with a second person plural subject, in (??) with a third personal singular subject, and in (??) with a third plural person subject.

The TNT egophoricity system has a contrast in the egophoric suffixes between singular *-or* and plural *-er* which does not exist in the non-egophoric suffix *-an*. Nevertheless some verbal stems of auxiliary verbs, as is shown in Table ??, have a plural and a singular form, which allows us to identify the grammatical number of the subject. This is the case of the verbal stems in the examples (??) *pasr-an* ‘stand-SG-NOEGO’ and (??) *puntr-an* ‘seat-PL-NOEGO’.

- (32) Namtrik (namtrik_037/149)

ñi=pe na-wai nimpasr-wan nili-ntr-ap-ik ki-an
 2=PD 1-GEN daughter-OBJ steal-PROS-NFV-MNZ.SG COP-NONEGO
 ‘you are about to steal my daughter’

- (33) Namtrik (RojasCurieuxetal2009)

ñi-m=pe kosre-ap kin
 2=PD teach-DUR COP-NONEGO
 ‘you guys are teaching’

- (34) Namtrik (namtrik_123/24)

ni=pe [peñ-ip pasr-an]
 3=PD fall-DUR stand.SG-NONEGO
 ‘he is falling (elic)’

- (35) Namtrik (RojasCurieuxetal2009)

tul-io=pe pin wakra putr-an
 field-LOC=PD three cow seat.PL-NONEGO
 ‘The cows are seat in the field’

4.2 Usage pattern of egophoricity markers in interrogatives

Table ?? shows the interrogatives predicate constructions in TNT. As we already mentioned TNT has two different interrogative constructions: one for first and second person and one for third person. The main difference between the two

constructions is the obligatory use of a copula auxiliary *ki-* in the interrogative clauses involving first and second person subjects which is not present in the interrogative clauses involving third person subjects.

Table 9: Interrogative predicate constructions in Totoró Namtrik

1SG	(V ₂) V ₁ -IRR-COP-NOEGO
2SG	(V ₂) V ₁ -COP-EGO.SG
2PL	(V ₂) V ₁ -COP-EGO.PL
3P	(V ₂) V ₁ -NOEGO

The canonical use in interrogative clauses of the egophoricity markers is illustrated in examples (??)-(??). Examples (??) and (??) show the use of the non egophoric marker *-an* in interrogatives involving a first person subject, singular in (??) and plural in (??). Since asking about one's self is usually perceived as an odd situation for Namtrik speakers, data on first person subject interrogatives is very marginal in the corpus used. (??) is a natural speech example, and (??) was elicited based on the structure of natural speech examples of first person questions.

As Floyd2018 notes regarding interrogatives in Chapalaa, first person interrogatives usually present a special marking which distinguish them from second and third person interrogatives. As is shown in the Table ?? and in the examples (??) and (??), first person interrogatives additionally have an irrealis marker *-am* which is not present in the interrogative clauses involving second and third person subjects.

Given the small amount of data concerning first person questions, it is not possible yet to argue if TNT presents a single construction for polar and content first person questions. However it is possible to recognize the use of the non-egophoric marker *-an* in interrogative clauses involving first person subjects, keeping in mind the morphophonological processes affecting this marker in questions is already described in the first part of this paper.

- (36) Namtrik (namtrik_045/140)
chu pasr-am=ki-an chi
 where stand.SG-IRR=COP-NOEGO Q
 'where shall I put this?'

- (37) Namtrik (namtrik_078/86, elic)

ñi=pe maik kusre-nan-mi-t-an shente na-m=pe makati
 2=PD well learn-CAUS-NEG-EXP-NOEGO then 1-PL=PD how
mar-am-ki-an
 do-IRR-COP-NOEGO

‘if you don’t teach well, then how we do it?’

The use of the singular egophoric marker *-or* in interrogatives involving second singular person subjects is illustrated in examples (??)-(??). Examples (??) and (??) show the use of the egophoric marker *-or* in content questions and examples (??) and (??) in polar questions. TNT has the same predicate construction for second person content and polar questions.

- (38) Namtrik (namtrik_037/80)

hi-ne mar-ip un-ki-or ñi=pe i-sri=pe
 Q-3 do-DUR walk-COP-EGO.SG 2=PD DIST-DIR=PD

‘what are you doing here?’ (lit. what are you doing walking here?)

- (39) Namtrik (namtrik_042/180)

ñi=pe chi-ne isu-ap wa-ki-or na-wai Geny
 2=PD Q-3 think-DUR seat.SG-COP-EGO.SG 1-GEN Geny

‘what are you thinking my Geny?’

- (40) Namtrik (namtrik_058/218)

i-ni=pe ñi wa-ki-or
 DIST-3=PD 2 seat.SG-COP-EGO.SG

‘Are you seat in that one (bench)?’

- (41) Namtrik (namtrik_058/64)

kish-ip wa-ki-or
 cry-DUR seat.SG-COP-EGO.SG

‘Are you crying?’

The use of the plural egophoric marker *-er* in content questions involving plural second person subjects is illustrated in examples (??) and (??). The use of the plural egophoric marker in polar questions is shown in examples (??) and (??)

- (42) Namtrik (namtrik_003/28)
chi piri kish-ki-er
what why cry-COP-EGO.PL
'Why are you (kids) crying?'
- (43) Namtrik (namtrik_031/110)
chi ni-ti war-i-ki-er
what 3-rest lay.PL-E-COP-EGO.PL
'What did you bring?'
- (44) Namtrik (namtrik_031/154)
taki-wan kucha pasr-ki-er
chagla-OBJ too stand.SG-COP-EGO.PL
'Did you leave the *chagla* sticks there too?'
- (45) Namtrik (namtrik_075/87)
uyu mir-mi-ki-er
here listen-NEG-COP-EGO.PL
'Didn't you guys listen?'

TNT presents in questions the same plural singular distinction observed in declaratives. As it was already argued, in declaratives, first singular person clauses are marked with the egophoric singular marker *-or* and first person plural clauses with the egophoric plural marker *-er*. In interrogatives this plural singular distinction is observed in second person questions.

Regarding interrogatives in the variety of Namtrik spoken in Guambia, **Norcliffe2018** proposes that "in interrogatives involving second person subjects, the verb in its bare stem form is obligatorily followed by a particle which takes the form of either *ku/ke* or *titru*. *Ku* is used for singular second person addressees, while *ke* is used for plural second person addressees as is shown in examples (??), (??) and (??).

- (46) Namtrik (Norcliffe2018)
chi mar-ku?
what do-ku
'What are you (SG) doing?'

- (47) Namtrik (Norcliffe2018)
chi mar-ke?
 what do-ke
 ‘What are you (PL) doing?’

- (48) Namtrik (Norcliffe2018)
ñi mana lanchi-titru?
 2/3.PROX when break-titru
 ‘When did you break it?’

In the case of TNT, the egophoricity system exhibit a verbal marking pattern, which is consistent with the description of egophoricity systems in other languages in which “speaker subjects in statements are marked the same way as addressee subjects in questions” (Curnow2002a). As is shown in examples (??)-(??), the forms *ko* and *ke* observed in questions involving second person singular and plural, correspond to the copula *ki-* followed by the egophoric markers *-or* and *-er*.

The canonical use of the non-egophoric marker *-an* in questions involving a third person is illustrated in the examples (??) and (??). TNT also has the same construction for content and polar questions involving third person subjects.

- (49) Namtrik (namtrik_057/126)
i-ni=pe tsik ki-an chi-ne kalus ki-an chi
 prox-3=pd wood cop-no.ego q-3 leather cop-no.ego q
 ‘Is this wood or what, leather?’

- (50) Namtrik (namtrik_049/14)
uni mik=pe ciego ki-an chi
 child man=pd blind COP-NO.EGO Q
 ‘Is the boy blind, or what?’

5 Egophoricity markers and the category of person

As San Roque and colleagues note regarding egophoricity marking and subject agreement marking, “under a person-marking account, egophoricity markers flag the coincidence of the epistemic authority and an argument role” (SanRoque2018).

Since subjects usually “have good grounds to declarative direct personal knowledge of an event, it naturally follows that declaratives with a first person subject usually take egophoric marking, as do interrogatives with a second person subject” (SanRoque2018).

This approach may describe much of the patterns in TNT, but has trouble accounting for the data which show that under certain semantic and pragmatic factors, the non-egophoric suffix can be used with first person subjects in declaratives as well and that the egophoric plural marker *-er* can be used in question clauses with a third person subject.

It was attested in egophoricity marking in different languages (SanRoque2018) that egophoric markers usually do not target non-volitional or non-control first person subjects. As is shown in examples (??), (??) and (??), in TNT egophoric marking is not used in declarative clauses which describe a non-volitional or non-controlled event performed by a first person subject.

Additionally, examples (??) and (??) also show the non-control marker *-ra*, which has also been reported in Guambiano by Vasquez2017 and serves to express the speaker’s lack of control or evidence with respect to the described event. This marker takes part in a specific complex predicate construction whose structure is shown in Figure 4, and which however is a construction restricted to first person subjects, and is never marked with the egophoric singular marker *-or* but with the non-egophoric marker *-an*.

- (51) Namtrik (namtrik_070/35)
tsa-ap kua-ap-ra-in ki-an-tro pesana-ik
 end-DUR die-DUR-NON.CONTR-MNZ COP-NON.EGO-DUB faint-MNZ.SG
 ‘There being sick at night, I fainted.’
- (52) Namtrik (namtrik_078/75, elic)
ki-ap-ra-in parin ki-ap-ra-in
 sleep-NFV-NON.CONTR-MNZ a.lot sleep-NFV-NON.CONTR-MNZ
ki-an na=pe miin-ti kasra-or
 COP-NON.EGO 1=PD now-REST wake.up-EGO
 ‘I was sleeping a lot and I barely woke up.’
- (53) Namtrik (namtrik_070/1)
na=pe kua-ap sre-ik ki-ap-ik ki-an na=pe
 1=PD die-NFV escape-MNZ.SG COP-DUR-MNZ.SG COP-NON.EGO 1=PD

sri *kasar-ap-ik*
DISTEM get.married-NFV-MNZ.SG
‘I almost died when I was just married.’

Although the general usage pattern of the Namtrik egophoricity system seems to be very consistent, the system has some flexibility and there are examples where the markers are not used according to the expected pattern. In examples (??)–(??) there is an egophoric plural marker *-er* in question clauses with a third person subject. It is not clear what motivates the use of the egophoric plural marker *-er* in these sentences.

(54) Namtrik (namtrik_035/15)
gorro=pe muna un-er ‘Where is the hat?’ (lit. where is it walking?)
cap=PD where walk-EGO.PL

(55) Namtrik (namtrik_078/104)
na-wai Geny=pe maik mun-ik tsu-wa-er
1-GEN Geny=PD well wait-NMZ lay.down-stand-EGO.PL
‘Geny must be waiting for me? (I’m worried about it)’

6 Undergoer & egophoricity

he experiencer egophoric marker *t* is involved in different kinds of constructions in TNT. In complex predicate constructions, this marker is always suffixed to the auxiliary verb. This marker has been reported also in previous descriptions of Guambiano by Vasquez2007 and TrivinoGarzon1994. Vasquez2007 described the marker *-t* as a first person applicative, which has epistemic-evidential functions, indicating that there is a first person which is perceiving some information described in the clause (Vasquez2007). More recently Norcliffe2018, writing about evidential and egophoricity markers in Guambiano, describes this marker as “a subtype of ego evidentiality ... used in contexts in which the speaker experiences an event as an undergoer, and thus has knowledge of the event as an affected participant.” (Norcliffe2018).

In TNT the main function of this marker is similar to the function that had been described by Vasquez2007, TrivinoGarzon1994 and Norcliffe2018. The main function of the *-t* morpheme is to mark a speaker which is in some way affected by the situation described in the clause, as illustrated in the examples below, which show the undergoer marker *-t* in intransitive declarative clauses.

(56) Namtrik (namtrik_042/240, namtrik_020/5, namtrik_075/11)

- a. *nakish pesrik ki-t-an kashi.*
 smoke angry COP-EXP-NON.EGO a.bit
 ‘The smoke is bothering me a bit. (Lit: The smoke is angry, which affects me a bit).’
- b. *kana sruk tiwei we-ap-i-t-an*
 one stone only come.out-DUR-NMZ.E-EXP-NOEGO
 ‘My father found a stone, (which the duende had hidden to make my father him sick, my father said).’
- c. *ashan=pe si kek pal-i-t-an*
 now=PD yes husband lack-E-EXP-NOEGO
 ‘Now I need a husband.’

The undergoer marker *t* may be suffixed to both intransitive verbs and transitive verbs. In declarative sentences with transitive verbs, the suffix *-t* marks an ‘affected’ speaker, which in these cases is expressed as an object.

(57) Namtrik (RojasCurieuxetal2009)

- a. *na-wai kek kuaki-t-an*
 1-GEN husband hit-EXP-NON.EGO
 ‘My husband hit me.’
- b. *na-wai notsak usmai lar-i-t-an na-wan*
 1-GEN sister head.down see-NMZ.SG?-EXP-NOEGO 1-DAT
 ‘My sister looked me with her head down.’

As is the case in other Barbacoan languages (Floyd2018), TNT has specific predicate constructions for experience verbs, including internal states, endophatic states, emotions and desires. In these cases, the non-egophoric suffix *-an* is used with first person subjects in combination with the undergoer egophoric marker *-t*. This kind of construction always displays a complex predicate structure that consists of a main verb followed by the copula *ki-*, the undergoer egophoric marker *-t* and the non-egophoric marker *-an*.

(58) Namtrik (namtrik_019/6, LEXIN2/62)

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- a. *na-wan-te kiri ki-t-an chilli-yu*
 1-DAT-REST get.scared COP-EXP-NON.EGO mud-LOC
pura-i-ntr-ap
 go.through-go.SG-PROS-NFV
 ‘I got scared going through the mud. (lit. There was fear in me going through the mud).’
- b. *na-wan-te kitra ki-t-an*
 1-DAT-REST be.cold COP-EXP-NON.EGO
 ‘I am cold.’ (lit. Cold is to me.)
- c. *na-wan-te intsa ki-t-an*
 1-DAT-REST reir COP-EXP-NOEGO
 ‘I laugh.’ (lit. There is laughing for me.)

The data from the Totoró variety of Namtrik shows that the undergoer egophoric marker *-t* seems to have an egophoricity distribution. That is to say, the suffix *-ta* refers to the speaker being affected in declarative clauses and to the hearer being affected in interrogative clauses.

The predicate construction involving the undergoer egophoric marker, which is shown in Figure 5, consists of a main verb followed by the suffix *-t* and the non-egophoric suffix *-an*. In interrogative clauses, the consonant in the non-egophoric suffix *an* follows the same pattern of consonant deletion found in the predicate constructions without the suffix *t*.

The following set of examples shows the pattern of usage of the undergoer egophoric marker in declarative clauses and interrogative clauses.

(59) Namtrik (namtrik_057/7, LEXIN2_101, namtrik_052/307, namtrik_059/86)

- a. *miim=pe kana paso pal-i-t-an*
 now=PD one glass lack-NMZ.SG?-EXP-NOEGO
 ‘Now I need a glass’ (lit. now a glass lacks, which affects me)
- b. *guarango=pe trumpik itri-t-an*
 guarango=PD ugly smell-EXP-NOEGO
 ‘The guarango wood stinks.’ (lit. guarango wood smells ugly, which affects me)
- c. *tapi ki-t-an*
 well COP-EXP-NOEGO
 ‘It’s okay for me.’

- d. *na-wan-ti paila-ki-t-an*
 1-DAT-REST dance-COP-EXP-NOEGO
 'I want to dance.' (lit. 'There is dancing for me.')

(60) Namtrik (namtrik_059/126, namtrik_058/256, namtrik_057/438, namtrik_037/144)

- a. *chillo pal-i-t-an*
 cuhillo lack-NMZ.SG?-EXP-NOEGO
 'Do you need a knife? (lit. 'Does it lack a knife for you?')
- b. *maik itri-t-an*
 delicious smell-EXP-NOEGO
 'Does it smell delicious? (according to you)' (lit. 'Does it smell good to you?')
- c. *tapi ki-t-an*
 well COP-EXP-NOEGO
 'Is it okay for you? (according to you)'
- d. *maik muts-i-ki-t-an* *ñi=pe*
 well drink-NMZ.SG?-COP-EXP-NOEGO 2=PD
 'Do you want to drink?'

7 Conclusions

Totoró Namtrik data shows a regular egophoricity pattern, exhibiting a very similar distribution as the one found in other Barbacoan languages. However, its first recognition is obscured by two morphophonological processes: vowel coalescence at a morpheme boundary and deletion of the final consonant of the egophoric and non-egophoric suffixes in questions. The fact that TNT possesses an egophoricity system is a good argument for claiming that egophoricity is a genetic feature in Barbacoan languages, as argued by CurnowLiddicoat1998.

The system that I illustrate in this paper is very similar to egophoricity systems in other languages. In declarative clauses the egophoric singular *-or* and plural *-er* are used for first person and the non-egophoric *-an* for second and third person. In interrogative clauses, the egophoric singular suffix *or* is generally used for singular second person, the egophoric plural suffix *er* for plural second person and the non-egophoric *-an* for first and third person. TNT shows a single egophoricity system both in declarative and interrogative clauses. In this respect

the TNT data differ from the Guambiano data, as presented by Norcliffe2018, which show two separate systems for declarative and interrogative clauses.

Further the TNT data shows an undergoer egophoric suffix *-ta*, which seems to function as an egophoric undergoer suffix, signifying that the speaker is in some way affected in declarative sentences. The undergoer egophoric suffix *-ta* appears to be used in questions to refer to the hearer being affected. This would mean that this suffix shows an egophoric distribution as well. However, more data is needed to confirm this.

The Totoró Namtrik egophoricity system does not always behave according to the general usage pattern. These non-canonical uses of the suffixes in the egophoricity system will play an important role in the semantic analysis of this system.

Abbreviations

1	first person
2	second person
3	third person
COP	copula
DAT	dative
DIST	distal
DIR	directive
DUB	dubitative
DUR	durative
E	epenthesis
EGO	egophoric
EXP	experiencer
GEN	genitive
LOC	locative
IMP	imperative
IRR	irrealis
MNZ	nominalization
NEG	negation
NON-CONTR	non-control
NON.EGO	non-egophoric
OM	marked object
PD	discursive particle
PROS	prospective
PL	plural
Q	question
REC	reciprocal
REST	restrictive
SG	singular

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Chapter 5

Interpersonal Alignments and Epistemic Marking in Kalapalo (Southern Carib, Brazil)

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1 Introduction

The idea of “interpersonal relations” is used in this paper to refer to a language-focused developmental process involving emergent patterns of communication and understanding in the interaction of distinctively different people within a community. It was probably used anthropologically by the modernist Edward Sapir1932 (Sapir1932; Basso1998). Sapir repeatedly noted in his lectures at Yale that the interaction of people of different personalities and their influence on the thought and action of a community has consequences with many historical implications (Sapir1993). When people respond to one another during conversational interaction as they receive information about the worlds of others, Sapir noted, they participate in contexts wherein judgments or evaluations of propositions are being made, often while speakers are trying to make decisions and plans for future action. More recently, John DuBois2004’ technical use of “alignment” refers to such ongoing activity ‘in which two participants in dialogical interaction ...converse in varying degrees’ in taking a stance (DuBois2004). Evidential and epistemic markers contribute to a speaker’s evaluation, self-positioning, and alignments with other subjects concerning the sharing of knowledge and evaluation of the epistemic object or proposition. (DuBois2007). Such stance enact-



ments are central to the pragmatic functioning of sociality and everyday power (Ameka2004).

In this paper I discuss stance enactments as they occur among speakers of Kalapalo, a Southern Cariban agglutinative language currently spoken by about 630 people in the Alto Xingu region of central Brazil (Guerreiro2015). In Kalapalo, a large number of epistemic markers are central to the pragmatic functioning of social life. My interest in this epistemic marking has grown out of my earlier anthropological work on Kalapalo narrative discourse (*akiñatunda*), a dialogical practice structured in large measure by the interaction between a narrator (*akiña otoi*) and a 'listener-responder' (*etuitsofo*) (Basso1985; Basso1986; Basso1987; Basso1995). Analyses of recorded narrated speech events assisted my understanding of the use of the epistemic features. In this material, dialogicality exists in the many narrated quoted conversations in which occur emergent processes of challenge, resistance, debate, deception, and the negotiation of meaning. Emotional events such as respect and endearment, as well as anger, shame, lust, greed, and envy are important for descriptions of protagonists and it is through their quoted speech that we can see how these emerge from social interaction (Basso2007). A narrator's authority to speak of imaginary or historical subjects is an adventure in language, a kind of critical social commentary that may not be tolerated in other public situations. Presentation of sociohistorical and mythological realities include fantasies regarding human bodily processes and tricksters' appetite for subversion, as well as historical memories of women who have been abducted and who learned to live in a different kind of society, and the personal adventures of warriors and shamans. The materials presented here include quoted conversations (often, interspersed with narrators' commentary), as well as from my own conversations with Kalapalo, and from the ritual speech of hereditary leaders (Basso2009; see also Franchetto1983, Franchetto2000).

In Kalapalo there is a set of six hearsay evidential markers (EV) mainly used in narrative and in quoted discourse (Table ??); eight initial position epistemic expressives (EXP) which directly mark first person judgment and sometimes 1st person evidence (Table ??)¹ and the large set (28) of second position epistemic clitics or free particles (EM) that I have ordered into six pragmatic sets; EM numbers correspond to the full set listed in the Appendix².

¹Another set of expressives are affective (marking fear, pain, sensory pleasure, disgust, grief, frustration). Their use by Kalapalo speakers tends to create a synergy of sentiment with listeners. The epistemic expressives are both interpersonal as well as cognitive and introspective in semantic function as shown in Table ?. Both sub-sets of the expressive word class are in the main used by speakers to introduce further descriptive commentary.

²Due to the large number of EM markers and complex semantic features, some of which (e.g.,

Table 1: Evidential suffixes (EV) and Evidential strategies (quotatives)

	Meanings	Discourse contexts
<i>tī</i>	narrative hearsay	narrative line or quotative
<i>-fi-</i>	appears on the quotative only, marking a neutral or vague source of information	can be used as a boundary marker separating conversation from authoritative narrative speech
<i>kila</i>	recent knowledge transmitted by speaker, received from a third person	comment on 3 rd p. speech act
<i>kita</i>	historical knowledge given to listener in another context	event description (verbal clause)
<i>nīgī i-feke</i>	quotative, perfective	‘X said’ (conversational)
<i>ta i-feke</i>	quotative, continuative	‘X saying’ (response)

assertion, inferential, negation) may be repeated in the use of several forms, I have used numbers rather than semantically informative glosses. Full descriptions occur in the examples and the Appendix.

Table 2: Epistemic Expressives (EXP)

Epistemic expressives	Meanings	Translation or other functions
<i>u:um</i>	insight, planning based on inference	'I'm thinking'
<i>ah</i>	assertive affirmative, evidential	'the fact is'
<i>koh</i>	unknown	'I don't know'.
<i>eh</i>	affirmation	'yes'
<i>eh he</i>	acknowledgment of speech act	'I hear you'
<i>he</i>	acknowledgment (reduced form)	'you're right'
<i>ta:</i>	rhetorical negation	'how/why not'
<i>akah</i>	mirative negative, frustrative	'oh my'
<i>eki</i>	temporarily forgotten name	'um'
<i>u:m ma</i>	an attempt to try to understand	'I can't be sure'
<i>ah u:m</i>	certainty of imaginative understanding	'I'm sure'

Kalapalo epistemic markers appear at the end of an adverbial phrase, a nominal phrase or clause, or a converbial or lexical verbal clause. There is rarely any vowel reduction; excepting with the morpheme *aka*, and no epistemic clitic are vowel initial. The morpheme *muk^we* may show elision when followed by a vowel initial phonological word. Nonetheless, most epistemic morphemes function as clitics insofar as they are phonologically bound through (second syllable) stress patterning to their host constructions, thereby playing a key role in phonological word construction. Epistemic markers have the ability to be compounded with one another, and with other types of clitics (Basso2014), as seen in examples ??, ??, ??, ??, ??, ??.³

A number of the Kalapalo parameters seem to closely match those specified by B.J. Hoff1986 for Surinam Carib (Kari'na) and also Bruna Franchetto's (n.d.) discussion of (so-called modal) 'marker's of true speech' in the closely related Alto Xingu Kuikuro language. However, with one exception, I use different language to describe these features in keeping with my emphasis on person-person deixis and dialogicality in stance processes. What Hoff1986 calls "grade" (strong-weak-lacking); "speaker's attitude", "appeals on speaker", "change of grade" and "co-existence with supporting or conflicting evidence" are clearly semantic parameters found in Kalapalo epistemic marking. Hoff1986's specification of an underlying contrast in the Surinam Carib particle set between the origins of "extraspective" and "introspective" evidence is also an evidential feature in Kalapalo, and this can be understood with reference to Ferdinand Haan2001's (Haan2001) approach that allows for a pragmatic description subsuming evidential and epistemic features. Haan2001 distinguishes between two deictic categories relevant to evidentiality: in the first, the speaker is separated (or separates themselves) from the action being described; in the second, the speaker includes themselves in the description of the action. In fact, these make sense for Kalapalo epistemic marking, when the stance object is foregrounded in the discourse segment (particularly in Sets A and B). But there is also the third person marked both as a logophoric interlocutor and as an epistemic object. There are four epistemic markers which can be used to describe logophoricity of several kinds: *kafa* Em17, weak but positive; *kato* Em18, troublesome; *nafa* Em20, an animate but non-human response; *kalaka* Em23, reflexive desire. Alignment (or 'engagement') is yet another deictic field, involving a speaker referencing an other subject's inclusion

³Similar morphemes have been described in the pioneering work on Northern Cariban languages by B.J. Hoff1986, Eithne Carlin2004; and Sergio Meira1999. Northern Cariban epistemic clitics usually appear after the first element in a clause (Wackernagel's position); the scope of the clitic including the entire clause (Hoff1986).

in the sphere of epistemic stance (as in Sets E and F). These involve participant frameworks relevant to Kalapalo epistemic markers in which the intersubjective relation is foregrounded and the object-subject relation recedes (though it is not entirely absent from discursive commentary).

While epistemic modality in the sense of a “scale” or “grade” is a feature of Kalapalo epistemology, there are important non-modal features that emerge as speakers evaluate information, including a) participation (or not) of the speaker and listener and a third person in a cooperative epistemic context, b) changes or correctives due to receipt of new information; c) mirativity (due to new and surprising information) and incredulity (an extreme skepticism or unwillingness to believe); d) counter-factive or contra-spective wishing or hoping, and e) acceptance or rejection of a conjoint project. I show in examples how the four logophoric markers mark responses to different kinds of experiences, speech, or desires and plans of someone other than the interlocutors: Although I follow earlier writers (Aikhenvald2004, Haan1999, Haan2001; NuckollsLev2012), in making a distinction between evidentiality (EV) and epistemic markers (EM) as shown in the preceding tables, Kalapalo EV, EXP and EM are often combined in discourse as many of the examples will show; and some EM also mark types of evidentiality (first hand experience; inference (or lack of direct speech evidence) regarding a second or third person’s thoughts and plans); these are not seen in the EV set. Past tense semantics occurs with the use of *wāke* EM1 and *nipa* EM 24, of interest as there is no past tense marking on the verb. In addition four EM (*kiŋi*, plural *kiŋi-ni* EM11, *pile* EM15, *tiki* EM19, *tima* EM28) have negation meanings. What follows is a brief listing of the six epistemic sets sorted according to pragmatic and semantic features. These sets are discussed further with examples in Sections ??-??, followed by my final observations in section ??. Names of original narrators and location of my research recordings are given following the examples.

Outline of Epistemic Sets

- Sets A-D mark a focus upon the speaker’s evaluation of a proposition and ‘positioning’
 - Set A: knowledge has been received internally; the speaker is a participant in the propositional context.
 - Set B: knowledge is received externally; the speaker is not a participant in the propositional context but must infer or deduce from this external evidence.
- Sets C and D: involve subjective ‘positioning’ used after a speaker has re-

ceived new information

- Set C involves self-correctives
- Set D concerns counter-factive or contra-spective acknowledgment, wishing or hoping’
- Sets E and F concern the speaker’s marking of epistemic alignment, that is, participation in a shared or in two cases, disputed propositional context.
 - Set E marks shared information; one negative marks refusal to share information
 - Set F marks speaker’s proposal or rejection of a conjoint project. In this set there is a marker with negative meaning used when the speaker refuses to participate or to be blamed in such a context.

2 Internal versus external contrasts in Sets A and B

Sets A and B are similar to Berend Hoff1986’s (Hoff1986) specification of an underlying contrast in the Northern Cariban Kari’na (or Surinam Carib) particle set between the origins of two types of evidence. The first is “introspective”, “inner world of the speaker”; evidence in the mind of the speaker; private knowledge. The second is ‘extraspective’ evidence from the “outside world”, that is, evidence external to the speaker’s experiences; or public knowledge.

2.1 Set A

Knowledge is ‘internal’, part of the speaker’s experience. There are six members of this set. These markers seem to reference an interlocutor’s thoughts or ideas, rather than direct speech so contrast with the hearsay EV group.

2.1.1 *wāke* EM1

With this frequently used marker, the speaker asserts a (usually distant) past experience in which knowledge or evidence has been acquired. The strong assertion is often seen in the speaker’s repetition of the marker after each clause. In the example, upon hearing that his friend is the lone survivor of a massacre, the speaker declares that was why he didn’t join them earlier, expecting to have to avenge them all.

- (1) *ege-tomi=dye-fa wāke u-te-li wāke,*
 PDEM-PURP=SS-TOP EM1 1-go.away-PNCT EM1
o-pi-ññ-ko-i u-its-ani, u-ki-li wāke
 2-avenge-AN-PL-COP 1-EX-FUT.1, 1-utter-PNCT EM1
 ‘For this purpose I remember some time ago I said, ‘I will be the one to go away as your avenger.’ (said by Kudyu at Aifa, 1980)

2.1.2 *tifa* EM2

This marks affirmation of the interlocutor’s current understanding of (or thoughts about) the speaker’s recently spoken ideas. This marker may be based on the hearsay EV *ti-*. See example (??) where EM2 contributes to the interlocutors belief that what he is saying is true. Most examples appear to be referencing a 2nd or 3rd person’s thoughts rather than speech. The following example marks an exclusive plural person’s acceptance.

- (2) *tis-eti-dyi-pigī-iña=tifa ti-ñifa-nigī.*
 1+3-come.out-ITR-VPE-BEN=EM2 1+3-teach-PS
 ‘You are right to think that on behalf of our offspring (i.e., ‘those who come out of us’), is what we teach.’ (said by Kudyu at Aifa, 1979)

Here, the speaker uses both EM2 in the nominalization part of the construction and *taka* EM22 *agreement with someone else’s description of their experience* in the bracketed adverbial clause; EM22 references his mother’s just-stated dismay at seeing his reddened eyes; the EM2 *tifa* references the speaker’s acknowledgment of what she thought of the events being described.

- (3) (*afiti=taka igei-ufunju ta-ño-fiñi-tifa... tisuge, afiti*
 denial=EM22 IDEM-unlike DIS-NLOC-resemble-EM2 1+3, denial.
 ‘No, (=because of what you saw) you must know there’s got to be another kind of place where we can live, no.’ (said by Kudyu at Aifa, 1979)

Here the speaker confirms a 2p.’s understanding of a past event. *wāke* EM1 is used to assert the speaker’s own participation. Because of the group context, I have used a first person plural translation.

- (4) *ule-tse-ngugi=tifa=wāke, ngikogo e-nigī wāke.*
 AFR-be-interrupted=EM2=EM1 fierce people come-PERF EM1.
aifu-pe-fa.
 end-ESS-PTP
 ‘We saw he was interrupted just as you thought he would be when he

started things, we saw the fierce people come. It was all over for him.’

2.1.3 *laka* EM3

This marks the speaker’s very weak inference, puzzlement, or a strong inability to understand the participatory context. This example includes both EM3 and the EXP *uum*, *referencing thought of an imaginative or inferential nature*. In Haan2001’s deictic model (Haan2001), the speaker has put himself into the sphere of action.

- (5) *u:um anji=laka ukuge ele-i ukuge*
 EXP result=EM3 human being DEM-COP human being
 ‘I suppose that could have been human, a human being’. (said by Tufule at Aifa, 1982)

In a trickster story, the speaker is surprised that he has already been told not to eat some fish parts, although he has already done so. The marker *seku* following the verb *te-* ‘eat’ is the mirativity marker compounded with EM3.

- (6) *te-ŋe=seku=laka a-niḡi u-feke=lefa*
 eat.flesh-TRNS=MIR=EM3 EQS-PFV 1-ERG=SEQ
 ‘I don’t think I was already told not to eat flesh!’ (said by Tufule at Aifa, 1982)

2.1.4 *ma* EM4

Used as a clitic, this dubitative form references the speaker’s uncertainty due to lack of knowledge. It is used mainly, but not exclusively, with interrogative forms. It may also serve as an epistemic neutral marker (see also conversational examples (??)–(??), (??)–(??), (??), (??), (??)). In the example, a narrator questions how someone in his story could put a large fish inside a small flute:

- (7) *ta-me=ma kuluta atati tu-i-ŋali i-feke*
 CONT-FACS=EM4 flute inside REF-put-REV 3-ERG
 ‘How could he have put it back inside something like that flute?’ (said by Kambe at Aifa 1979)

2.1.5 *maŋa* EM5

The speaker, while enunciating a proposition, at the same time denies any possibility of its occurrence; this form is used to express incredulity, often with the

rhetorical (y/n) question prefix *tī*. (‘I can’t believe you’re asking/saying (X) as you and I both well know the answer’.)

The envious Trickster declares he will make the same kinds of rare and beautiful things given to his younger brother.

- (8) *u:um tī-kītsi=maŋa t-iŋuG-isi Taugi ki-lī*
 EXP RQ-ugly=EM5 REF-make-ADV (name) utter-PNCT
 ‘Who thinks this is hard for me to make?/ I can only make it badly?’
 (=‘This is easy for me to make’), Taugi spoke’ (said by Tufule at Aifa, 1979)

A leader’s ritual communication is often filled with this kind of ironic restraint, a kind of respectful devaluation of the work of his own messengers. There is a feeling of the speaker’s modesty enacted by his disclaimer.

- (9) *tī-kaiŋa-fiŋi=maŋa Ø-atsa-ki-lī a-tehe=gele-fa wāke*
 RQ-DEST-resemble=EM5 3-run-TRNS-PNCT EQS-PER=still-TOP EM1
 ‘Who thinks they still don’t run up to some place as they had done in the past? (Leader’s talk, spoken by Ageu at Aifa, 1998)

2.1.6 *kaŋa* EM6

The speaker expresses the unlikelihood of an event.

An event has taken place, and the speaker had mistakenly counted on a third person (his father-in-law) to act in a certain way. Line (??) has the EM11 from Set C which marks polite regret to the listener for his agreeing to let his father-in-law do so.

- (10) a. *ige-tomi=kaŋa-fa igei*
 take.away-PURP=EM6-TOP IDEM
 ‘Although it was unlikely I would be escorted/led for that’,
 b. *ukw-oto-feke=kiŋi a-tīfigi-ko ige-tomi.*
 dual-relative-ERG= EM11 EQS-IMP-PL take.away-PURP
 ‘regrettably I let our relative (parent) be our escort/ leader’. (said by Kambe at Aifa, 1980)

Here the speaker uses EM6 to taunt an enemy to begin shooting at him. He asserts he it’s not likely he can rely on the interlocutor to bring him some arrows. The speaker uses the *ki*-applicative to change the verb ‘go’ from an intransitive to a transitive ‘go to do X’ with the complement verb ‘bring’.

- (11) *uege=kaja te-ta-tiga u-figi i-ki.*
 you=EM6 go.to-CONT-HAB 1-arrow bring-IMP
 'I can **hardly count on you** to always go to bring my arrows to me (=i.e.,
 'shoot me'). (said by Kudyu at Aifa, 1980)

2.2 Set B

Information is marked as 'external' to the speaker's experience or not foregrounded. There are four members of this set. As with A, there is an assumption about the interlocutor's thoughts, wishes, or plans, but not any direct hearsay evidence.

2.2.1 *nika* EM7

The marker is a kind of strong supposition of the speaker's regarding the interlocutor's experience or wish. It is often a strong marker of mourning (see example ??).

A husband is anxiously looking for his wives and comes to a place where he expects to find them. He politely suggests to some other women that they have seen his wives there:

- (12) *anji=nika inde u-oku-ni-ta i-ni-li e-feke-ne*
 result=EM7 here 1-liquid.food-TRNS-CONT 3-see-PNCT 2-ERG-PL
 'You **might have** seen those who make my food around here.' (said by
 Tufule at Aifa, 1978)

Compounded clitics: regarding speaker's denying asserted knowledge with interlocutor:

- (13) *afiti=nika=wāke e-ndisi-fuŋu=wāke, ti-niŋi-li-i wāke.*
 denial=EM7=EM1 2-daughter-resemble=EM1, 1+3-see-PNCT-COP EM1
 'How could we have known if that was the daughter (**about whom you wished for**) **we saw before?**' (said by Ugaki at Aifa, 1982)
- (14) *kuk-iñe-ti-ñi=nika=ale igei, nīgi-ti-feke tu-fitsu-feke.*
 2-poison-TRNS-AN=EM7=always IDEM, QUOT-EV-ERG REF-wife-ERG.
 'You **seem to think** this might always poison us don't you', that's what
 he said to his wife' (said by Ugaki at Aifa, 1979)

- (15) *kuaku inji-tifigi=nika-fa uege, tuwa-kua-ti.*
 nighjar bring-IMP=EM7-PTP you, water-into-ADV
 'You're the person the nightjars **wanted** to bring into the water, **aren't you**'. (said by Tufule at Aifa, 1979)
- (16) *ah u-muku-gu apuŋu-iŋo-ti=nika isi ki-ŋali*
 EXP my-son-POSS die-FUT.2-DES=EM7 3.mother utter-INCEP
 "'The fact is my son wants to die later, **doesn't he**," his mother began to say.' (said by Kudyu at Aifa, 1979)

2.2.2 *tata* EM8

There is possibility but some uncertainty as the epistemic object involved a 3rd person, or a distant past source of information, and therefore the speaker could not know for certain that the event took place. However, some probability from inferential or customary experience exists.

- (17) *igifagafiti anetu-gu uŋu a-nigi=tata i-feke:*
 settlement name leader-POSS house EQS-PFVS=EM8 1-ERG:
 'Possibly the Igifagafiti leader has a house.' (said by Kudyu at Aifa, 1979)

A woman recounts another's actions based on common female experience, but since the event took place in the far distant past, the speaker isn't entirely certain of the accuracy of what she's saying.

- (18) *lepene atu-ndi-li=tata i-feke*
 then tap-TRNS-PNCT=EM8 3-ERG
 'Then I think she might have tapped on it' (said by Tufule at Aifa, 1979)

2.2.3 *fina* EM9

With this marker the speaker expresses the idea that there is some possibility but there is no direct evidence.

The following is a typical remark after the Trickster seem to have acted in his usual covert manner.

- (19) *Taugi=fina=mbe*
 Taugi=EM9=SS
 'It might have been Taugi who did that' (said by Tufule at Aifa, 1979)

Grandmother Quail sees someone has pulled up all her peanuts. *fina* appears in this example with the mirative =*seku*, which in this example has scope over both utterances. *fina* has scope over the line (??) utterance only.

- (20) a. *tī-seku=ma egei u-etigite-gī-ki ga-tiga.*
 RQ-MIR=EM5 ADEM 1-peanuts-POSS-INST make-HAB
 ‘What is this here? Someone’s messing with my peanuts.’
 b. *enī oto-ni i-nīgī-ko=fina=seku-fa.*
 reason food-non-existent EX-PFV-PL=EM9=MIR-TOP
 ‘Could it be that’s because they don’t have any food of their own?’
 (said by Kambe at Aifa 1979)

The forest monster is frightened by a man who disguises himself as an *adyafi* owl in order to scare him away (this owl is a bad sign to the observer).

- (21) *adyafi=fina its-a*
 owl=EM9 EX-CONT
 ‘That could be an adafi I’m seeing’. (said by Tufule at Aifa, 1979)

2.2.4 koh EM10

The speaker has no knowledge of what is being described. This morpheme is most often a particle. and is also used to begin a sentence as an expressive (example ??). The scope of *koh* covers the utterance which it follows.

A husband returns and begins to burn a pile of brush in which, unknowingly, his wife’s lover is hiding. When the man runs away to escape the fire, the husband wonders why his wife never told him.

- (22) *ukuge wende e-ki-nu koh-i u-feke*
 person over.there 2-utter-non-existent EM10-COP 1-ERG
 ‘Why didn’t you tell me there was someone over there? (said by Olafu at Aifa, 1979)

Several brothers, frustrated in not having found their sister in a nearby settlement, say the following to one another:

- (23) *uwa=ma igei uk^w-iṇandsu i-nīgī.*
 what=EM IDEM dual-sister EX-TR
 ‘What could have happened to our sister?’

- (24) *koh.la=gele-fa uk^w-iηandsu its-ani*
 EM.like.that=still-TOP dual-sister EX-FUT.1
 'I don't know, our sister might be over there somewhere still.' (said by
 Ugaki at Aifa, 1980)

3 Discussion of Sets C (Contraspective), and D (Counter-expectation)

3.1 Set C

Contraspective: in the sense there is a imaginative wishing or hoping (sometimes, in vain) for a difference in what has been told to, or what is being observed by, the speaker.

3.1.1 *kiηi*; *kiηi-ni* (plural) EM11

This is used to mark regret for what has been told to the speaker. This contraspective marker is a negative nominalization of the verb *ki* 'utter'. The following example also appears in (??); the speaker regrets having participated in a joint venture.

- (25) *uk^w-oto-feke=kiηi a-tifigi-ko ige-tomi.*
 dual-relative-ERG=EM11 EQS-IMP-PL take.away-PURP
 'I regret I let our relative (parent) be our escort.' (said by Kambe at Aifa, 1980)

As in this example EM11 often appears hosted by the agreement expression *eh he* whereby a speaker acknowledges affirmatively what the interlocutor has said but is expressing regret. (other examples include ??; ??; 25a_{ii}-iii?)

- (26) *iη-ke nīgifeke, ohsi-fa-ta-i ku-mugu opi-tsomi-feke*
 see-I QUOT, HORT-tell-CONT-COP 1+2-son avenge-PURP=ERG
figei
 IDEM
 "Look", he said to him, "be sure to tell the others this (payment) serves to
 avenge our son".
- (27) *e-iña u-e-ta nīgifeke.*
 2-DAT 1-come-CONT QUOT
 "That's why I've come to you."

- (28) *eh he kiŋi, eh he*
 agreement EM11, agreement
 ‘If only it weren’t so, all right’. (said by Tufule at Aifa 1979)

3.1.2 *muk^we* EM12

This marks the restrained or suppressed character of the utterance, an indication of the speaker politely expressing a positive wish or expectation. There can also be a realization on the speaker’s part that the proposition may be in vain. This is a frequent marker in narratives; see also the conversational examples (??), (??), (25a,i, ii,iii?), (??).

- (29) *u-ño its-iŋa=muk^we ukuge*
 1-husband EX-SN=EM12 human
 ‘If only he were human he might be my husband.’ (said by Ugaki at Aifa, 1979)

This example shows the speaker’s use of *muk^we* to mark his restraint and modesty as a son-in-law proposing a work party to help the family. (The full conversational context appears as examples ??–??).

- (30) *eŋi=muk^we-tsi-fa fesoko apuGi-tsofo=muk^we-tsi-fa ku-pehe-ne*
 do=EM12-M-TOP (fish.name) flavor-USIN=EM12-M-TOP 1+2-ERG-PL
 ‘This way hopefully we’ll make some flavoring for our fesoko fish.’

3.2 Set D

Counter-expectation or reevaluation of evidence with regard to the receipt of new information. The speaker corrects or denies their own proposition. There are three markers.

3.2.1 *maki* EM13

The speaker reevaluates what s(he) knows. New (introspective) information results in reevaluation of speaker’s own earlier proposition. In (??): the adverb *ande* is a deictic feature. To know there is a prior proposition comes from the context of the narrative in which the speaker claims to have to travel in another direction which the interlocutor says won’t take him to the river.

- (31) *ande=maki fanguinga=lefa, nigifeke.*
 here.now=EM13 river=SEQ, QUOT
 ‘Ok, now I see that the river is here after all’, he said to (him)’. (said by Kambe at Aifa, 1982)

In (??), the speaker, who had thought to be a member of the Trumai group, now realizes he has been abducted as a child and says:

- (32) *afiti=maki Tugumai-funju ku-kuge*
 denial=EM13 Trumai-resemble 1+2-people
 ‘not I realize we people resemble Trumai’, i.e., ‘I realize we people are not Trumai’. (said by Ausuki at Aifa 1982)

3.2.2 *makina* EM14

New (introspective) information leads to acceptance of the interlocutor’s earlier proposition which was rejected:

A man has killed his mother-in-law but has told his wife that the woman has died from a fish on which she choked to death. The narrator begins this part of his story with a description of what the wife sees (her first-hand evidence (??–??)), which is followed by the woman’s surprised reaction to this evidence: her use of the *ah* expressive to assert her understanding of the truth of the event, followed by her acceptance of the husband-listener’s deception, using EM17 and the mirative *ki*.

- (33) a. *ege-te=gele is-isi-ŋa=gele*
 PDEM-DIS=still 3-throat-inside=still
 ‘Still there inside her throat’
 b. *uluGi akī-tīfigī i-fu-tsī-tsīgī-fa i-feke*
 fish name stuck-IMP 3-put.inside-VPE-TOP 3-ERG
 ‘the stuck ulugi fish he had put inside her.’
 c. *ah, aŋ-olo=dye-tsī=makina=ki igei*
 EXP, EQS-ADV=SS-M=EM14=MIR IDEM
 ‘The fact is I realize now that’s true, I didn’t expect you to tell me that about her.’ (said by Kudyu at Aifa 1979)

A man uses the polite reference to his parent-in-law, *uk^w-oto-fo-ko*.

- (34) *uk^w-oto=fo-ko=makina ege, ukw-oto-fo-ko*
 dual-parent-PL=EM.28 he dual-parent-PL
 ‘Now I realize that’s not our parent, our parent.’

A woman tells her brothers her abductor in the past was not one of their kind:

- (35) *ah, ukuge-fiŋi=***makina***=***wāke** *igei=***wāke** *u-iki-dyu=***lefa**
 EXP, 1-person-unlike=EM14=EM1 IDEM=EM1, 1-abduct-PNCT=SEQ
u-feke tsa=l=ifeke, i-ño-pe-feke.
 1-ERG tell-always=ERG, 3-husband-SEL-ERG
 ‘The fact is, the one who abducted me before wasn’t a person like us as I
 now realize’, she kept telling them about this other husband of hers’. (said
 by Ugaki at Aifa, 1980)

3.2.3 *pile* EM15

The speaker moves from acceptance to rejection of a proposition.

A young man has agreed throughout the narrative to go to dangerous places to get things for his brother (whose wife is his lover), but finally realizes the brother is trying to kill him.

- (36) *a-faŋa-ŋo-fo-i* **wāke** *u-a-niḡi=***pile**
 2-ear-NLOC-USIN-COP EM1 1-EQS-PFV=EM15
u-ikuki-ne-ta
 1-send.away-TRNS-CONT
 ‘I **thought before** that because I was your co-spouse I could (safely) be
 sent away (**but I now understand differently**)’ (said by Tufule at Aifa
 1979)

- (37) *u-i-gu=***pile-fa** *ata-ni*
 1-ornament-POSS=EM15-TOP EQA-FUT.1
 ‘I **mistakenly thought** my pubic ornament would be here.’ (said by
 Kambe at Aifa, 1979)

4 Discussion of Sets E and F

Sets E (five examples) and F (eight examples) concern the speaker’s marking of epistemic alignment, that is, confirmation of a shared (or in two cases, disputed) proposition. These sets are probably large because they are used when there is a speaker’s need to shift between a focus upon the epistemic object; the marking of a unique or shared perspective ; and the marking of the interpersonal alignment, that is, participation with the interlocutor in an epistemic context involving a joint venture. As is often the case, such contexts themselves change throughout

a conversation and there is often ‘disclaimed’ responsibility in which EM play a significant role. My examples include a number of examples of dialogic contexts that illustrate the co-construction of epistemic and evidential meaning. Examples of markers from sets A-D appear in these longer examples. Speakers in these examples discuss issues of responsibility, denial of conjoint participation in a pragmatic context, and engagement in deception while using the affinal civility register (Basso2007).

4.1 Set E

Markers in this set concern shared information and reference the interlocutors participating in a joint venture; one negative marks refusal to share information. Conjoint/disjunct contrasts occur and degrees of knowledge are also marked.

4.1.1 *tafa* EM16

The speaker asserts their own (or a 1st person plural) alignment with the listener. The example shows both the speaker and interlocutor’s use of the ‘distant future’ FUT.2, as a reciprocal pragmatic politeness marker (see Mendoza2016 on use of future as a politeness strategy).

Cuckoo’s mother tells him to come home right away from his uncle’s settlement if the man’s daughter he wishes to marry decides she doesn’t want him after all. Cuckoo’s answer is in Line (??).

- (38) a. *ñafe-tsi-fa iñandsu-feke e-tifu-ñe-tote,*
 quickly-M-TOP sister-ERG 2-reject-TRNS-HYP,
e-n-īm-iño
 2-return-INTR-FUT.2
 ‘You’ll come back quickly if the sister rejects you, won’t you.’
- b. Cuckoo answers his mother:
s-agage-dye=tafa u-e-n-īm-iño ama
 3-same-SS=EM.16 1-return-INTR-FUT.2 Mother (vocative)
 ‘I will come back, Mother, if she is the same (as you’ve said).’ (said by Kudyu at Aifa, 1979)

4.1.2 *kafa* (EM17)

A logophoric marker, *kafa* indicates the speaker’s presumption of a 3rd person’s wants, feeling, or experience. In this narrative section from the same story as (??),

four epistemic markers appear. The speaker affirms the 3rd person has accepted their proposition and asks his wife to accept a trip to get salt, which he apparently wants to do to benefit the family. The noun ‘our parent’ used for ‘parent-in-law’ and *muk^we* EM12 are especially typical of the affinal civility register he is using, and the markers of politeness clearly enable what turns out to be his terribly deceptive speech.

- (39) a. use of ‘our parent’ as politeness marker
aŋi=kafa uk^w-oto-i ŋukugu=mbo-li ta i-feke,
 result=EM17 dual-parent stay.behind=HYP-PNCT QUOT 3-ERG,
ta-ki i-feke
 QUOT-MIR 3-ERG
 ‘“This parent of ours could have stayed behind **herself** after all”, he said to her, surprising her by saying that.’
- b. use of *muk^we* to mark a son-in-law’s restraint and modesty
eŋi=muk^we-tsi-fa fesoko apuGi-tsofo=muk^we-tsi-fa
 do=EM12-M-TOP (fish.name) flavor-USIN=EM12-M-TOP
ku-pehe-ne
 1+2-ERG-PL
 ‘This way hopefully we’ll make some flavoring for our fesoko fish.’
- c. *eh he nīgifeke*
 greement QUOT
 ‘“All right” she said.’

In line (??), the speaker uses compounded markers EM22 *taka* for suggestion of a 2p prior agreement and *nafa* logophorically for marking the third person; the speaker also uses the EM2 *tifa* to affirm her need or wish. Of interest is the narrator’s final comment about how even though he is lying to his wife, the speaker is able to convince her by using these epistemic markers that he should take his mother-in-law to the salt plants.

- (40) a. *uge=taka=nafa uk^woto-iña=tifa iki-ponde-fi*
 me=EM22=EM20 dual-parent-BEN=EM2 drying.rack-arrange-ADV
u-feke
 1-ERG nīgī-fi-feke.
 ‘I recall you told me (about her) that our parent wanted me to be responsible for setting up the drying rack for her benefit’. ‘He must have said something like that.’

- b. *ɛŋgu-Gi-ta* *i-feke*
 deceive-TRNS-CONT 3-ERG
 ‘He was deceiving her.’ (said by Kudyu at Aifa 1979)

4.1.3 *kato* (EM18)

Another marker with logophoric uses, a strategy for gossipy speech as the speaker is sharing worrisome information regarding a 3rd person with an interlocutor, and denies any responsibility for what is being said. The speaker confirms what the 3rd person has said, but does not always accept it as legitimate. As the speaker aligns in this manner with the 3rd person outside the present speech context the shared proposition is puzzling, or even worrisome.

From the Kwambi, a ritual song during which gossip about the singer is ‘thrown back’ at the original speakers:

- (41) *kuGife-mbe=kato* *ti-ka-gi-ti* *i-feke*
 witches.dart-SE=EM18 REF-make-TRNS-DES 3-ERG

People are trying to kill jaguars. They come to a community to see if some youths can be prepared as warriors. The boys are tested by killing a tapir: In Line (??) the speaker uses the third person logophoric *kafa* because the children’s actions confirms their proposal of a joint venture. In Line ??, there is use of *kato*. Here the proposal that the children might be able to kill the jaguars is considered possible by the speaker but still somewhat weak and worrisome, which is given further context by the narrator’s explanatory material in Line ??.

- (42) a. *agetsi-tsi=mbembege=dya=kafa ule-tsanje*
 one-M=PE=DS=EM17 AFR-DEO
 ‘They seem to have wanted to do that together to it (the tapir), what we had them do.’
- b. *ata-dye=kato* *ku-mugu-ko-feke ukw-opi-dyĩ-ko-iŋo*
 EQA-SS=EM18 1+2-son PL-ERG

 1+2-avenge-PNCT- PL-FUT.2
 ‘“I’m not sure, but since they’ve done it that way, our children **must want to** avenge us later”’
- c. *etsi-ŋi-nda-ko=mbedya-fa*
 fright-INTR-CONT-PL=SE.DS-TOP
 ‘They were still frightened by what those others (jaguars) kept doing.’
 (said by Sanafa at Aifa)

4.1.4 *tiki* EM19

This marks the speaker's refusal to accept a role in an endeavor described by the interlocutor or by third persons. *tiki* is also a mirative form that emphasizes the speaker's sudden surprise concerning the contrastive understanding or disagreement. The form may be derived from the negative mirative suffix *-ki* (see also example ??-?? with *tifa*).

A woman has been abducted by powerful beings and left in her hammock tied to a tree in the wilderness. When she wakes up, she says:

- (43) *una=tiki egei u-e-tifigi*
 Q=EM19 ADEM 1-come.to-IMP
 'How in the world did I (or ? could I have wanted to') come here like this?' (said by Tufule at Aifa, 1979)

A warrior from a cannibal group cannot understand why his future wife says others fear he has come to kill them all, because he's only come to marry her. (see earlier part of this conversation in (??)).

- (44) a. *una-male ago te-ta figei nigifeke*
 Q-so.many these.people go.away-CONT ADEM QUOT
 'Why are so many of these people here going away like this', he asked her.
- b. *ñ-eje-tu-nda-ko tsale igei e-feke*
 DE-fear-TRNS-CONT-PL 3-so many IDEM 2-ERG
 'They're frightened of what you're like'.
- c. *tueli-ko faña-mi-ta igei efeke.*
 kill-PNCT-PL worry-adversative-CONT IDEM 2-ERG
 'They're worried that you will kill them all like this.'
- d. *ta-tiki Ø-e-li-ko-iña u-e-nali*
 RQ-EM19 3-kill-PNCT-DAT 1-come.to-MAL
 'Why should anyone say I've come here to kill you all?'
- e. *awu-nda-fiñi=mbedye tsa=lefa.*
 like-CONT-resemble=SE-SS EX=SEQ
 'What they're saying is like a lie'.
- f. *e-li-ko-iña-la tale igei u-e-tifigi, nigifeke*
 kill-PNCT-PL-DAT-NEG NEG.always IDEM 1-come-PFV, QUOT
 'I never came like this to kill you all'

- g. *figei-pe apokine-nigĩ=mbe=dye tsa i-feke ule-fa*
 arrow=SEL put.down-PFV=SE-SS EX 3-ERG AFR-TOP
 ‘He had already put down his arrows because of what she was saying.’
- h. *iñali nigifeke*
 no QUOT
 ‘Not so’, he said. (said by Apihũ at Aifa, 1967)

4.1.5 *nafa* (EM20)

With this marker, a 1st person responds to the interlocutor regarding a 3rd person animate non-human agent or subject participant. *nafa* is used in regard to the speaker assuming the interlocutor has customary knowledge of the consequences of the context.

- (45) *u-ifi-fo-lu=nafa e-feke sike-feke-fa*
 1-touch-HYP-PNCT=EM20 2-ERG tocandira.ant-ERG-TOP
e-fife-po-li
 2-bite-HYP-PNCT
 ‘You must know if you were to touch me the tocandira ant would sting you.’ (said by Tufule at Aifa, 1979)

While introducing the character Cuckoo, the storyteller confirms that I already know what he’s talking about, as he was keenly aware I had already worked with others identifying Kalapalo bird names.

- (46) *fitsagu, tu-fu-ti-sĩ=nafa e-feke*
 cuckoo, REF-know-TRNS-PNCT=EM20 2-ERG
 ‘Cuckoo, you must already know yourself what that is.’ (said by Kudyu at Aifa, 1982)

The following example describes people escaping a massacre who are giving out dead hummingbirds as food to their fellow travellers. What occurs as a consequence is a case of oracular interpretation insofar as responsibility for a problematic decision is displaced deictically away from the discourse of the 2nd person human locutors and onto the 3rd person non-human epistemic object. In Line (??), there is a use of *muk^we* (EM12) as ‘hoping in vain’. In Line (??), there is a use of *maki* (EM13) marking change of opinion after receipt of new information (see also line iv). Line (??) shows EM13 suffixed by the negator *-la* (NEG) as are final elements of the other clauses.

- (47) a. *lepe, ohsi ku-ñi-kondì-ŋi*
 next, HORT 1+2-DE-give.out.NN
 ‘Then “let’s see whether or not we can share them (lit., our not sharing)”.’
- b. *tì-kon-di Ø-feke-ni, pok, pok, pok, katote*
 REF-give.out-ADV 3-ERG-PL, (put down sound),
*itau=**muk**^w e-feke kugiti*
 all woman=EM12-ERG everyone
 ‘They gave them out, the women hoped to give them out to everyone.’
- c. *he=dye=**maki**.*
 yes=SS=EM13
 ‘Yes, that’s **not what I/we expected**.’
- d. *afitì=dye=**maki**-la aŋikogo-feke kukw-e-lì-ko-la,*
 denial-SS-EM13-NEG fierce.people-ERG 1+2-kill-PNCT-PL-NEG,
kukwe-lì-ko-ìŋo-la, afitì
 1+2-kill-PNCT-PL-FUT.2-NEG, denial.
 ‘‘Since that wasn’t **what I/we expected**, the fierce people never kill us all, will never kill us all, not so.’’
- e. *i-ŋa-po-lì=**nafa** its-a-ini*
 3-left-over-HYP-PNCT=EM20 EX-CONT-PL
ìŋopi-fo-lì-ko=lefa ule-tseŋugu-i
 go.back-HYP-PNCT-KO=SEQ AFR-interrupt-COP
 ‘Had **they found** there was not enough (**of them**) for everyone, they would have stopped that (i.e.travelling) and gone back for that reason.’ (said by Ausuki at Aifa 1982)

In this example, an entire conversation is presented to show how EM19 emerges at the end of presentation of knowledge by the interlocutors. This is when the speaker expresses surprise and also questions knowledge. This utterance is constructed with a rhetorical question that emphasizes the speaker’s sudden and surprising realization of the truth of what is being told him: Note in line (?). there is a compounded hearsay EV and EM20.

- (48) a. *apiči, nìgifeke*
 Grandfather, QUOT
 ‘Grandfather’, they said to him.’
- b. *tisuge-ake egei efigi ake.*
 1+3-COM ADEM 2-grandson+COM
 ‘Together he and I, we’re your grandsons.’

- c. *tī-ma=ale-i* *u-figi-i*
 RQ-EM4=always-COP 1-grandson-COP
 ‘How can it be there have always been grandsons of mine?’
- d. *tisuge-ti=nafa egei*.
 1+3-EV-EM20 ADEM
 ‘That’s what **we know as we’ve been told** that about you.’
- e. *e-figi=nafa egei itau-kuegi muku-gu-pe*,
 2-grandson=EM20 ADEM woman-AUG son-POSS-SEL,
 ‘**You now know** Monstrous Woman had a son, that’s him over here.’
- f. *uge=tifa egei ñafigi muku-gu-pe*.
 me=EM2 ADEM (name) son-POSS-SEL
 ‘I’ve learned I am one of ñafigi’s sons’.
- g. *eh he! ñigifeke ah ande-ŋu=tiki u-fi-dyau*
 agreement QUOT EXP here/now-DIM=EM19 1-grandchild-PL
a-ñigi
 EQS-PFV
 ‘All right!’ he answered. ‘The fact is, **I had no reason to think** you little ones here were my grandchildren!’ (said by Kambe at Aifa 1980)

4.2 Set F

This set marks differences between the speaker and listener regarding a speaker’s agreement to participate in the proposal of a shared context for information. The speaker appeals to a listener with a marked grade of confidence, referencing the conjoint situation. There is a contrast between these and EM19, which marks the speaker’s denial of any conjoint agreement.

4.2.1 *aka* EM21

The speaker substantiates the interlocutor’s proposition and information is shared by the speaker with the listener. The speaker declares there is existing, positive alignment between herself (often as a member of a non-inclusive plural group) and the listener. In example (??), the speaker uses *nika* (EM7 Set B) to align with the interlocutor’s experience. In Line (), he uses *eh he kiŋi*, regretful agreement.

Based on his own experience, Cuckoo judges his wife’s family’s eyes are constantly bothered by the smoke in their house.

- (49) a. *ti-fati, uma=ale igei igea=**nika**=ale figei*
 REF-ask-ADV, Q=always IDEM manner=EM7=aways ADEM
e-iñali-ko
 2-MAL-PL
 ‘Asking, “Aren’t you all always bothered this way like I am?”’
- b. *eh. ŋi-ke-fa tisuge...*
 yes, see-I-TOP 1+3
 ‘Yes, look at us.’
- c. *igei-fuŋu=**aka** tisuge, igei-fuŋu*
 IDEM-resemble=EM21 1+3, IDEM-resemble
 ‘As you see this is what we are like, like this’.
- d. *eh he kinji*
 assent EM11
 ‘Yes, but if only it weren’t so.’ (said by Kudyu at Aifa, 1982)

The Dead are invited to return to the living but decline. In Line (??), the use of *nifa*, EM 25, marks that the (quoted) speaker shares a conjoint decision with the listener.

- (50) a. *tis-ogo-pi-tsa=**nifa** aña ki-li*
 1+3-go.back-INTR-CONT=EM25 Dead utter-PNCT
 “All of us have agreed to go back”, the Dead said.
- b. *tits-e-li=**aka** ake-ts-igei=lefa*
 1+3-go-PNCT=EM21 SD-EX-IDEM=SEQ
 “And so, as you see, we people must take leave of you.” (said by Tufule at Aifa, 1979)

4.2.2 *taka* EM22

This is a weak or uncertain conjunct marker. With this marker, the speaker proposes to the listener (s)he will probably agree with the proposition but speaks somewhat uncertainly. In my examples, =*taka* is seen with somewhat hesitant, rather than assertive speech, as there is no direct evidence the listener can use to assert knowledge or accept the proposition.

- (51) *aŋi muk^we=**taka** itau=go-piŋi fogi-tsigi u-feke*
 exist EM12=EM22 woman-PAU-DEF find-IPE 1-ERG
 ‘As I hoped there were a few deficient women I found by chance.’ (said by Kambe at Aifa 1979)

The following example shows **taka** hosted by an “I told you so” quotative(bracketed). The quotation, which precedes the quotative, is included in the scope of the EM =**taka**.

- (52) *uk^w-aŋi-fofo [u-k^wi-ta=**taka**] egei.*
 dual-exist-IM 1-utter-CONT=EM22 IDEM
 “‘Let’s wait a while”. I suppose you **might remember** I said that.’ (said by Nikumalu at Aifa 1979)

Use of **taka** with a Q word. The speaker asks a listener to help him remember someone’s name:

- (53) *uwa=**taka** i-ñandsu ititi, Kamisu?*
 What=EM22 3-sister name, (name)
 ‘What did I say **about** the sister’s name? Kamisu?’ (said by Ugaki at Aifa, 1979)

What follows is a conversational example regarding responsibility, with examples of several different logophoric markers. After travelling from place to place without finding her, the relatives searching for a woman have arrived in a community where some warriors (during the time of her abduction) had seen people on the river. They have evidence but never knew how to interpret it until they are told several years later about this woman who has been abducted. Their interlocutor uses **muk^we** as a politeness strategy. In Line (??), **kafa** marks the speaker’s weak presumption of the third person’s experience. In Line (??), **nika** is the second person logophoric marker emphasizing the speech of the visitor and **wāke** marks the speaker’s first hand, distant past experience used to assert his knowledge to the listener. What has happened is the warriors realize they didn’t have any way of knowing the people they saw on the river were the woman and her abductor. If so, they might have been able to release her. The narrator describes the following conversation:

- (54) a. *tseta-**ŋapa**-fa i-dye-Gi-nigī i-feke*
 same.place-probably-TOP 3-ask.about-CAUS-PFV 3-ERG
 ‘Most likely they asked about her there.’ (narrator’s line)
 b. *aŋi fogi=kafa inde iñandsu e-tiŋigī inde=**mukwe***
 result search.for-EM17 here sister come-IMP here=EM12
u-limo, nigifeke
 1-children, QUOT
 “‘Is there a chance someone who I’m looking for may be here, I hope the sister came here my sons ’” he said about her.’

- c. *ñali=ma-e-tsaŋe e-indisĩ e-nĩmi, ta i-feke-ni.*
 NEG-EM4-2-DEO 2-daughter come-CONS, tell 3-ERG-PL
 “We **don’t think** what you’re wanting, there’s any reason your daughter came here after all”, they answered.
- d. *ule-ŋugi=taka=ale egei-i unago-fa,*
 AFR-interrupt=EM22=uninterrupted ADEM-COP some.others-TOP,
tafaku oto-mo-fa,
 bow master-PL-TOP
 ‘Before that (his constant talking about her) was suddenly interrupted by some others, bow masters
- e. *afiti=nika wāke, endisi-fuŋu wāke,*
 contrast=EM7 EM1 daughter-resemble EM1,
ti-ŋ-iŋi-lĩ-i wāke
 1+3-DE-see-PNCT-COP EM1
 ‘How could we have known if that was the daughter (about whom you spoke) we saw before?’ (said by Ugaki (Aifa, 1982)

4.2.3 kalaka EM23

EM23 marks the speaker’s impressions of a vague 3rd person reflexivity. The impressions are positive although the speaker may have no direct evidence regarding the 3rd person’s thoughts or even the identity of the person. This contrasts with *kato* (EM18), which marks worrisome impressions of a hearsay or gossip nature on the part of the speaker. Irrealis features in the examples contribute in several ways to the idea that *kalaka* marks an uncertainty (because it introduces the clause marked with *koh* EM10), and even a polite proposition (because the clause is used with the -*iŋo* FUT.2 distant future).

A woman suggests to her sisters that a new fruit might be used as a drink if the Trickster invents it. The use of the irrealis distant future FUT.2 contributes to this weak proposition.

- (55) *aŋi fogi=kalaka ti-iñambe=nĩm-iŋo-koh ta-ti i-feke*
 result find=EM23 REF-drink-INTR-FUT.2=EM10 QUOT-EV 3-ERG
 “He could find *in itself* a kind of drink for us sometime”, she kept saying about it, they say.’ (said by Tufule at Aifa 1979)

From a conversation between a Kalapalo speaker and the present author about usage:

- (56) a. *ege muku-gu ipo-pigĩ=kakaka egei-i*
 PDEM son-POSS pierce-PFV=EM23 ADEM-COP
 ‘She might have wanted someone to pierce her son (i.e. pierce her son’s ears).’
 b. *ah-la-tsĩ, ege muku-gu i-po-pigĩ its-a egei.*
 EXP-like.that-M, 3PDEM son-POSS 3-pierce-PFV EX-CONT ADEM
 ‘The fact is that’s right, the fact is her son’s ears have been pierced.’

In this example, the speaker suggests his mother-in-law (whom he can’t address directly) might have an opinion different from his own. In Line (??) he uses *aka* marking information shared with his wife.

- (57) a. *ah ñuku ñigifeke ai efitsu ki-li*
 EXP (name) QUOT EXP wife utter-PNCT
 ‘The fact is ñuku’, he said to her. ‘What?’, his wife answered.’
 b. *ta-iku=nile ukwi-ta-ku=aka igei*
 RQ-fully=wrong dual-CONT-fully=EM21 IDEM
 ‘Why do we have to speak so mistakenly **to each other** about this ?’
 c. *añi=kakaka ukw-oto iñu-kugu-mbo-li*
 result=EM23 dual-parent join-fully-INTR-PNCT
 ‘I’m not sure but maybe our parent has decided to come along **by herself**.’ (said by Kudyu at Aifa, 1979)

4.2.4 *nipa* EM24

Marks a contradiction involving an interlocutor’s or 3rd person’s role treated as different from what has been experienced, said, or seen. *nipa* is often used in examples that reference the distant past, but where the speaker has some historical evidence of positive impressions of 3rd persons. For example in (??) the narrator’s use of *nipa* references impressions of temporally distant others, no longer present but mentioned in historical narratives.

- (58) *teh ekugu=mbe=nipa u-kuge*
 nice fully=SE=EM24 1-people
 ‘But my (ancestor) was **thought** very beautiful when that happened (i.e. when he painted himself) (=when the other people saw them.)’ (Kofono to EB at Aifa, 1979)

Here the complement verb, ‘see, think’ in imperative mood (*iñ-ge*), is used with the main verb for ‘kill’. A warrior is addressing his relative, a person with little experience:

- (59) *iŋ-ge elu=mbe-tsi=nipa a-pi-ga i-feke-ne*
 look/think-I kill=SE-M=EM24 2-club-CONT 3-ERG-PL
 ‘Think carefully, don’t you realize (if you did that) they would club us to death?’

In the context of a dispute about traveling, foreign visitors keep insisting upon going in a certain direction, even though others repeatedly show them (using arm motion) the direction to travel so as to avoid enemies. Possibly *nipa* is used as the participants are foreigners with no knowledge of the local geography.

- (60) a. *la! e-te-ke efu-ta=nipa e-ge-tomi Atatsinu-kai*
 that way 2-go-I canoe-in=EM24 2-travel-PURP (name)-by.means.of
 That’s the way you should go **different from what you said**, by
 canoe, on the Atatsinu.
- b. *aŋiti, la u-te-ta-ni*
 denial, distant.place 1-go-CONT-FUT.1
 ‘I won’t, I’m going that (other) way.’
- c. *i-tagiñu-pe kugu, i-tagiñu-pe male!*
 3-speech-SEL fully, 3-speech-SEL too.much
 ‘So much of their speech, too much of that speech of theirs!’
- d. *la=nipa e-te-ke, Atatsinu-kai=nipa e-te-ke,*
 distant.place=EM24 2-go-I (name)-DEST=EM24 2-go-I,
la.
 distant.place
 ‘That’s the way you should go, **different from what you said**, you
 should go on the Atatsinu (creek), way over that way (even though
 you don’t want to).’ (said by Kambe at Aifa 1982)

4.2.5 *nifa* EM25

The speaker invites interlocutor into a context to share knowledge, or asserts a conjoint decision regarding 2nd person or 3rd person (see also example (??)).

- (61) *ukwatsa-ke-nifa ku-nitsu-na*
 dual-run-I-EM25 1+2-granmother-ALL
 ‘We really should hurry over to that grandmother of ours.’

The following example is a discussion of the need for a conjoint decision despite an oracular message to the contrary. In line (??) the speaker uses *kiŋi* (contrastive negation); and *aka* (confirmation of 2person). A father is asked to

help prepare his young son to be a warrior who will kill ravaging jaguars. Unlike the earlier examples (??)–() in which the oracular message is accepted, in this case it is at first rejected but as the need to act is far more important *nifa* is used (Line ??) together with the politeness *muk^we* ‘hope in vain’ as the speaker, a leader, is requesting something very special of the interlocutor that will benefit the community as a whole.

- (62) a. *taloki=muk^we figei eni=muk^we-fa e-mugu tii-li ku-pehe*
 useless=EM12 ADEM do=EM12-TOP 2-son make-PNCT 1+2-ERG
nigifeke.
 QUOT
 ‘“It may be useless but even so we should try and make your son”,
 they said.’
- b. *eh he kin-ale, afiti-ku=aka*
 agree-EM11-always, denial-INT=EM21 1-dream=SE-PEJ
u-witunu=mbe-su ifo-fini egitse egei.
 image-resemble unable PDEM
 ‘If only it wasn’t so. I want you to know I’ve never **had** such a dream
 image as **that**, to my detriment.’
- c. *taloki=muk^we=nifa kuk-opiso-ko-omi-ŋo=muk^we-fa*
 useless=EM12=EM25 1+2-avenge-PL-PURP-FUT.2=EM12-TOP
ku-mugu-ko tu-itu-e.
 1+2-son-PL REF-make-I
 ‘It may be useless **but even so** in order to try and have someone
 avenge us we need to make our son.’
- d. *eh he nigifeke.*
 agree QUOT
 ‘All right’, he answered. (said by Kambe at Aifa, 1979)
- (63) a. *u: um, ama nigifeke, ama.*
 EXP Mother QUOT Mother
 “Mother”, she said, “Mother”,
- b. *ande a-fatuwi. ande a-fatuwi*
 here/now 2-nephew, here/now 2-nephew (i.e., daughter’s husband)
 “I’m thinking your nephew’s here now, I’m thinking your nephew’s
 here now.”

- c. *eh he nīgifeke.*
 agreement QUOT
 “All right”, she answered
- d. *ah, e-fisī-tomi=papa ege-na e-iña.....*
 EXP, 2-younger.brother-PURP=EM.26 3rdp-ALL 2-BEN
 ‘The fact is, if you want him to come be your younger brother (i.e. new husband) on your behalf, that’s all right with me.....’ (Afanda told by Ugaki at Aifa 1979)

In an imperative construction, the speaker uses *papa* to agree with his wife:

- (64) *ege-ke=papa kuigiku nīgifeke, ukw-oto-iña, ukw-oto-iña.*
 2-take away-I=EM26 manioc.soup QUOT dual-parent-BEN,
 dual-parent-BEN
 “I agree you should take this soup with you”, he said to her, “for our parent, for our parent”. (said by Ugaki at Aifa 1979)

4.2.6 *apa* EM27

This EM appears to be informal in comparison with EM 26. The speaker wants a 2nd or 3rd person to cooperate as asked. (1 cooperates with 2 as in (??); 1 asks 2 to cooperate as in (??-)).

- (65) a. *u-limo-wī-tsīpīgī-fa fu-mi-kege u-wetiko-gu-ki*
 1-child-father-unending-TOP send-TRNS-I 1-belt-POSS-INST
e-te-tomi aikaku-na, uguka-ki.
 2-go=PURP (name)-ALL, shell.ornaments-INST
 ‘Send the father never having my children (politeness locution) to get my belt(s) from the Aikaku, to get shell ornaments (s).’
- b. *eh he nīgifeke*
 agreement QUOT
 ‘All right’ she said to him.
- c. *u-ki-ta-ni=apa=fofo i-feke i-fitsu ki-lī*
 I-utter-CONT-FUT.1=EM27=IMM 3-ERG 3-wife utter-PNCT
 “I’ll speak to him right away just as you wish, his wife said. (said by Tufule at Aifa 1979)

- (66) a. *agetsi-ŋo-i-tsi=apa* *ku-te-ga-ni-ni*,
 one-NLOC-COP-M=EM27 1+2-go-CONT-PL-FUT.1
 ‘I **want** us to all go together soon,
- b. *kule-mi-la=ale=keñi* *e-mugu-ko undu-pesi-kigĩ*
 take.care-TRNS-NEG-always=beware 2-son-PL attack-ugly-PFV
i-feke-ni
 3-ERG-PL
 ‘as we can’t ever stop watching out in case they make an attack on
 your son.’ (said by Madyuta at Tanguya, 1979)
- (67) *ah, e-ŋi-ke=apa* *ande* *la-iña*
 EXP, 2-see-I=EM27 here/now-NEG-DAT 3-footprint-POSS-PL
its-apĩ-gĩ-ko its-a, *tĩ-fitseŋe-ki-ñĩ akago*
 EX-CONT, REF-stink-INTR-SN those. people
 ‘The fact is, you can see their footprints here just as I did, those people
 over there are the Stinking People whom I want you to see’. (said by
 Madyuta at Tanguya, 1979)
- (68) *i-ŋi-gote-fa* *ku-pehe safake-fi-tsĩgĩ-tsi=apa*
 3-bring-CONC-PTP 1+2-ERG 3-body.trunk-crush-IPE-M-EM27
e-ta....,
 come-CONT
 ‘If we want to bring (some of it), ‘come on let’s go get ‘it’s‘crushed body’
 like you did....’. (said by Kudyu at Aifa 1979)

4.2.7 *tima* EM28

A contrastive (1≠2) used when the speaker wishes to assert a strong disclaimer of responsibility, particularly a denial of fault after being blamed by an interlocutor. The rhetorical question prefix *tĩ* contributes to the sense of angry negation. Context: The story concerns a maned wolf father who is looking for his son’s poisoner, going from one plant to another:

- (69) a. *tĩ-tomi=tima* *e-mugu igi-fes-iñali* *u-feke*
 RQ-PURP=EM28 2-son head-ugly-MAL 1-ERG
 ‘Why should I be **blamed** for bothering your son?’

- b. *u-ikeu-te-la=muk^we-ti* *igitse e-mugu ë-ta*
 1-be.angry-TRNS-NEG=EM12-DES unable 2-son come-CONT
u-fanu-tsoke-tiGi
 1-?-chew-ADV
 ‘I never tried to get angry when your son came to chew open my fruit.’
- c. *tī-tomi=tima* *u-ikeu-ŋali* *i=feke*
 RQ-PURP=EM28 1-be.angry-MAL 3-ERG
 ‘Why should I be **blamed** for getting angry with him?’ (said by Kudyu at Aifa 1979)

Context: The warrior comes to marry a young woman, but as he is always clutching his bundle of arrows to his chest, her mother is very frightened.

- (70) a. *inke-fa* *nīgifeke, ukw-apīñi* *fegei*
 look-I-TOP QUOT dual-die-PFV ADEM
 ‘Think of it, she said, ‘Someone like that will make us die’.
- b. *ah tafako oto* *ale elei, kukw-e-luiño fegei i-feke.*
 EXP bow master CUM PDEM 1+2-kill-FUT.2 ADEM 3-ERG
 ‘Believe me, they’re all bow masters over there, as someone like that he’s going to kill us.’
- c. *eh he* *ta-tima* *afiti*
 agreement RQ-EM28 contrastive
 ‘How can I be blamed, that’s wrong.’
- d. *ta-te-ŋali-ko* *u-feke, u.um, ta-te-ŋali-ko* *u-feke.*
 NEG-go-MAL-PL 1-ERG EXP NEG-go-MAL-PNCT-PL 1-ERG
 ‘Why should I kill them? I’m trying to figure out why they think I should kill them’. (said by Apihū at Aifa 1967)

5 Final Observations

These many examples show how the several rich grammaticalized epistemic subsystems in the language may only be revealed in full through a discourse-centered approach that examines the natural contexts in which these occur. A researcher depending primarily on elicitation or ordinary conversation might miss many of them altogether, as I discovered over time, particularly as EM so often occur during socially discordant speech events that speakers are reluctant

to invent for the foreign listener. Narrative and ritual speech frameworks include marking of changes in the intersubjective relation when new information is received; positive acceptance of a conjoint activity is requested by the interlocutor; and when acceptance or outright rejection of the interlocutor's proposition occurs. In a conversational context, there are a variety of graded ways these can be marked, from strong assertion to a weak, inferential marking and denial or disjoint marking. Politeness or impoliteness occurs in many examples, particularly where the epistemic markers are used to mark judgments regarding conjoint activities. With regard to a third person, the marker used depends on whether the speaker is making an inference of the third person's stance based on common or historical memory (the logophroic *kalaka* versus *nipa*), as well as a stance marking based on conventional sociocultural knowledge regarding the behavior of a non-human actor (marked by *nafa*). NuckollsLev2012 note the importance of understanding sociocultural factors connected to the emergence of this complex type of linguistic feature. Kalapalo EM occur in ordinary conversation, greetings, affinal civility (a register involving constrained speech and gestural modesty) disagreement and even impolite description of a proposition, and most notably in quoted conversations that form important segments of extended narrative discourse. EM contribute pragmatically in these contexts to the 'unity and the experience of stance as it emerges in dialogic interaction' (DuBois2007), and there may be more person-to-person temporal and evidential features involved. EM show types of distribution of responsibility, including requested or agreed-upon alignment involving participation in an epistemic context, as well as a speaker's denial or rejection of co-participation, and denial of alleged responsibility. Quoted speech in narrative discourse exemplifies a speaker's need to shift between a focus on the epistemic object; marking of unique or shared perspectives, and reference to the interpersonal participation in epistemically situated discourses (which may also include deliberate impoliteness, involving the speaker's refusal to use the civility register as anticipated by interlocutors). As is often the case, such contexts themselves change throughout a conversation, and there are a number of EM (especially sets C and D) that mark the nature of these person-to-person deictic shifts. This body of Kalapalo data forces us to look at interpersonal speech practice and experience, which challenges a simple contrast between private and public, micro- and macro-sociological events. Memories of such dialogical production of meaning and the effect of these processes on social roles and relationships are preserved in the Kalapalo narrative materials discussed here, an important source for understanding the social and historical forces that have led to the emergence of this complex set of epistemic

markers.

Phonological symbols

Where my symbols are different from IPA conventions, the latter are placed in brackets. Alto Xingu conventions are marked (AX). *Consonants*: voiceless stops: p: bilabial; t: post-alveolar; k: velar; k^w: dorso-velar; voiced stops: d: post-alveolar; g: velar; post-alveolar voiced stop: dy [dy]; prenasal voiced bilabial stop: mb [^mb]; voiced uvular flap: G; voiceless fricative: f [ɸ]; voiceless alveolar fricative: s; voiceless glottal fricative: h; voiced post-alveolar affricate: ts; voiced velar affricate: č; bilabial nasal: m; velar nasal: n; post-alveolar nasal: ñ [ɲ]nh(AX) ; velar nasal: ŋ ng(AX); post-alveolar lateral: l; bilabial semivowel: w; velar semivowel: y. Vowels: front: medial: e; unrounded: i; Central: medial: i[i]ü(AX); unrounded: a; Back: rounded: u; medial: o [ɣ]; stressed vowels show nasalization.

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Abbreviations

ADEM	adnominal demonstrative
AFR	anaphoric focus referent
AUG	augmentative
CONS	consequential
CUM	cumulative
DE	de-ergative
DEO	deontic
DES	desiderative
DS	different subject
EQA	active equative
EQS	stative equative
EX	existential
EXN	existential nominalizer
EXP	epistemic expressive
FUT.1	anticipated future
FUT.2	potential future
IDEM	identificational demonstrative
IMM	immediate
INT	intensive
IPE	end result of involuntary process
M	modifier
NLOC	locative nominalizer
NN	negative nominalizer
PDEM	pronominal demonstrative
PE	perpetual event
PEJ	pejorative
RQ	rhetorical question
SD	deontic subject
SE	same event
SEL	selective
SEQ	sequential
SS	same subject
USIN	usuative nominalizer
,	short pause
>	inverse marking

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Chapter 6

Epistemic uses of the *pretérito pluscuamperfecto* in La Paz Spanish

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This paper explores epistemic-evidential uses of the pluperfect, i.e. *pretérito pluscuamperfecto*, in La Paz Spanish. The *pretérito pluscuamperfecto* displays functions of a reported evidential form, conforming to results from previous studies on Argentinian Spanish (Bermudez2008; Speranza2014) and, furthermore, is used according to a previously unnoticed inferential evidential function. Using theoretical frameworks from Kockelman2004 and Bergqvist2018c, this paper describes the configuration of participant roles and event types implied in the different evidential functions of the *pretérito pluscuamperfecto*.

1 Introduction

Romance languages do not possess grammaticalised evidentials and express the evidential domain through verbal inflection. In peninsular Spanish, for instance, the evidential domain is expressed by means of the simple future, the past imperfect, the present conditional and the past conditional. The simple future and the present conditional are used to express inference in the present (??) and in the past (??), respectively.

- (1) La Paz Spanish (Squartini2001; gloss added)

Ahora **serán** las cuatro.

now be.FUT.3PL ART.F.PL four

‘It must be (lit. will be) 4 o’clock’



- (2) La Paz Spanish (Squartini2001; gloss added, translation modified)

Serían las ocho cuando salimos.
 be.CON.3PL ART.F.PL eight when go.out-PST.1PL
 ‘It was (lit. would be) 8 o’clock when we left’

Whereas the imperfect ?? and the past conditional¹ ?? are used to express reported evidentiality.

- (3) La Paz Spanish (Reyes1996; gloss added, translation added)

- a. *¿Qué tal sigue Ana?*
 how follow-textscprs.3sg PN
 ‘How is Ana doing?’
- b. *Mejor me parece. No la v-i, porque*
 better 1SG.DAT seem-PRS.3SG not 3SG.F.ACC see-PST.1SG because
cundo llegué dorm-ía. Pero hab-ía
 when arrive-PST.1SG sleep-PST.IPFV.3SG but have-PST.IPFV.3SG
com-ido algo, y tenía menos fiebre. Esta noche
 eat-PTCP something and have-PST.IPFV.3SG less fever this night
la veía el médico de nuevo.
 3SG.F.ACC see.PST.IPFV.3SG the doctor again
 ‘I think she’s better. I did not see her, because when I arrived, she was sleeping. But she had eaten something and had lower fever. Tonight, the doctor is supposedly going to see (lit. saw) her again.’

- (4) La Paz Spanish (Squartini2001; gloss added, translation modified)

Según fuente-s políticas consult-ad-as por este periódico,
 according.to source-PL politic-PL.F consult-PTCP-PL.F by this newspaper
Milosevic hab-ría aceptado que la
 NP have-COND.3SG accept-PTCP that ART.F.SG
fuerza de interposición en Kosovo est-é compue-sta por un 30%
 peacekeeping force in Kosovo be-SUBJ.1SG form-PTCP.F by ART of
de efectivo-s de la OTAN.
 troop-PL of ART.F.SG NATO
 ‘According to political sources consulted by this newspaper, Milosevic

¹The evidential use of the past conditional is restricted to journalistic or more formal prose (Reyes1996).

accepted (lit. would have accepted) the Kosovo peacekeeping force to be composed of 30% NATO troops.'

With regard to the *pretérito pluscuamperfecto*, Spanish grammars (HernandezAlonso1986, Cartagena1999) describe it as the tense that points out the *consecutio temporum* 'sequence of tenses' between two past actions: the more recent action is conjugated in imperfect, simple past or present perfect, while the preceding action is in *pretérito pluscuamperfecto*.

- (5) La Paz Spanish (10_SP_TASK: 10)

[...] luego mi la mi mujer fue a vend-er lo
then my ART.F.SG my woman go.PST.3SG to sell-INF 3SG.ACC that
que **hab-ía** cosech-ado y yo me fui a
have-IPFV.3SG harvest-PTCP and I 1.REFL go.PST.1SG to sit-INF
sent-ar [...]

'Then my wife went to sell what she had harvested and I went to sit'

Moreover, the *Nueva Gramática de la Lengua Española* (RealAcademia2010) indicates two other uses of the *pretérito pluscuamperfecto*, such as the expression of habitual actions ?? and politeness ??.

- (6) La Paz Spanish (NGLE 2010: 452; gloss added, translation added)

A esa hora, los viernes Eugenio **hab-ía** **sal-ido** del
at that hour the friday NP have-IPFV.3SG go.out-PTCP from.ART.SG
trabajo
work

'At that time, every Friday, Eugenio went (lit. had gone) out from work'

- (7) La Paz Spanish (HernandezAlonso1986; gloss added, translation added)

Hab-ía **pens-ado** yo **ped-ir-le**
have-IPFV.3SG go.out-PTCP I ask-INF-3SG.DAT

'I was thinking (lit. had thought) to ask him/her'

In addition to these normative uses, studies on Latin American Spanish varieties (Laprade1981; Mendoza1991; CallisayaApaza2012; Adelaar2004; Speranza2014; Bermudez2008) have also attested evidential uses of the *pretérito pluscuamperfecto* ??.

- (8) La Paz Spanish (**Laprade1981**; gloss added, translation modified)

Me **hab-ía** **tra-ído** est-a puntabola

1.REFL have-IPFV.3SG bring-PTCP this-F pen

‘I (accidentally) brought (lit. had brought) this pen with me’

The specialized literature on the evidential use of the *pretérito pluscuamperfecto* in Argentinian Spanish is limited to two studies, i.e. **Bermudez2008** and **Speranza2014**. While questioning the temporal function of the *pretérito pluscuamperfecto*, **Bermudez2008** shows four evidential functions of this tense: an ‘external source’, which expresses the perspective of a third party; ‘shared access to information’, marking information also known by the addressee; ‘endophoric source’, marking information that does not come from sensory experience; and finally, ‘mirative’, which marks information that goes against speaker’s expectations. **Speranza2014**, in turn, proposes a sociolinguistic analysis of the uses of the *pretérito pluscuamperfecto* and observes a higher number of epistemic-evidential uses in the varieties of Argentinian Spanish that are in contact with languages with grammaticalised evidential-epistemic systems, such as Quechua and Guaraní (**Speranza2014**). With respect to the expression of the commitment to the truth of information provided by the *pretérito pluscuamperfecto* as evidential-epistemic form, **Bermudez2008** and **Speranza2014** arrive at different conclusions. **Bermudez2008** states that the use of an indirect evidential does not necessarily imply a low commitment to the truth of information:

Assigning information to an external source may mean either a weakening, or a strengthening of the reliability of the utterance, this depends on the level of reliability given to the source by the participants involved in the language exchange.²

Whereas **Speranza2014** states more precisely that the use of the *pretérito pluscuamperfecto* implies the speaker’s low degree of commitment to the truth of the information provided.

‘The appearance of the PPI (*pretérito pluscuamperfecto*) is related to utterances where there is the possibility of greater ambiguity in the attribution

²El asignar una información a una fuente externa puede significar tanto una debilitación como un fortalecimiento de la credibilidad de la afirmación, lo cual depende del nivel de credibilidad concedido a la fuente en cuestión por los participantes del intercambio lingüístico.

of what is mentioned [...] the sender, then, expresses a lower degree of reliability by selecting a subordinate tense'³

I am not aware of a separate study focusing on the epistemic-evidential function of the *pretérito pluscuamperfecto* in Bolivian and Peruvian Spanish, even though this use has been noted in the literature (Laprade1981; Mendoza1991; CallisayaApaza2012; Adelaar2004). Laprade1981 notices that in La Paz Spanish the *pretérito pluscuamperfecto* can have mirative function or indicate absence of direct knowledge. Along this line, Mendoza1991 adds a further observation based on phonology, arguing that whenever the *pretérito pluscuamperfecto* has evidential-epistemic function in La Paz Spanish, the auxiliary verb *haber* 'to have' shows an accent shifting from *había* to *habíá*. Finally, CallisayaApaza2012 states that epistemic-evidential uses of the *pretérito pluscuamperfecto* are also found in other regions of Bolivia, although the author does not specify which ones. The contributions of the present study are three-fold. First, it details the epistemic-evidential uses of the *pretérito pluscuamperfecto* in La Paz Spanish. As already mentioned, the use of the *pretérito pluscuamperfecto* as an indirect evidential form has been already described for Argentinian Spanish (Speranza2014; Bermudez2008), but its use in other varieties of Latin American Spanish and, specifically, in Bolivian Spanish has not been accounted for. The second contribution consists of further data that highlight the pragmatic functions of the form in interaction. It is argued that, in its evidential function, the *pretérito pluscuamperfecto* signals the distancing of the speaker from the propositional content of the utterance. Such a distancing, however, is not necessarily related to a low degree of commitment to the truth of the information and, in this regard, the evidential uses of this tense, i.e. inferential or reported, display different outcomes. The third contribution is to give better insights on the configuration of the pragmatic features involved in the use of *pretérito pluscuamperfecto* as evidential form. Following the theoretical framework proposed by Kockelman2004 and Bergqvist2018c, the pragmatic features – such as event types and participant roles – involved in the different evidential functions of the form as well as their distribution are discussed. The first-hand data used in the study were collected in La Paz, Bolivia during 2014 and 2015.

In the remainder of the paper, I will refer to the *pretérito pluscuamperfecto* by the acronym PPI (cf. Speranza2014)⁴.

³La aparición del PPI se vincula a emisiones en las que existe la posibilidad de mayor ambigüedad en la atribución de los dichos [...] El enunciador, entonces, expresa su menor grado de confiabilidad a través de la selección del tiempo verbal dependiente.

⁴This paper is based on chapter 10 of my PhD thesis (Quartararo2017).

2 Evidentials, epistemic modality, participant roles and event types

Aikhenvald2004 argues that the core meaning of evidentiality is the expression of the source of information, although she notes epistemic extensions for both reported (Aikhenvald2004) and inferential evidential markers (Aikhenvald2004). Such extensions are usually related to the expression of the speaker's degree of commitment to the truth of the information, i.e. epistemic modality, and are attested in languages in which the two domains, i.e. evidentiality and epistemic modality, are expressed by the same forms (Plungian2001, cf. Romance languages). The overlap between the two domains is visible in how indirect evidentials may indicate both the speaker's direct contact with the results of an event, and the lack of such results. This is the case of inferring evidentiality⁵ (Willett1988), as in the use of the Italian future tense in ??, and reported evidentiality (Willett1988), as in the use of the Italian conditional mood in ??. In both cases, the speaker may express different degrees of reliability regarding the verisimilitude of the state of affairs due to the lack of direct evidence.

- (9) Italian (Squartini2008; gloss added, translation modified)

[Suon-ano alla porta] Sarà il postino
ring-PRS.3PL to.ART.SG door be.FUT.3SG the postman
'[The bell rings] It must be (lit. will be) the postman'

- (10) Italian (Squartini2001; gloss added)

Secondo Luca, ieri il treno sarebbe part-ito alle
according.to PN yesterday the train be.COND.3SG leave-PTCP to.ART.PL
5
5

'According to Luca the train left (lit. would have left) at 5 yesterday'

In recent years, some studies on the pragmatic properties of evidentials (Curnow2002b, Curnow2003; Clift2006; Faller2006; Hengeveld2015) have significantly contributed to the description of semantic extensions acquired by evidentials in specific communicative contexts. Such studies have also provided better insights into the pragmatic features involved in the use of evidentials. Hanks2012 summarizes

⁵Through the term "inferring" Willett indicates both inference, in Willett's terms "results", and assumption, in Willett's terms "reasoning".

three pragmatic dimensions that affect the use of evidentials: *source of knowledge*, i.e. the source on which the information rests; *source of statement*, i.e. the source of the utterance provided; and *expressivity/interaction force*, i.e. the “subjective relation between the speaker and some element of the utterance context” (Hanks2012). The first and third pragmatic dimensions (i.e. source of knowledge and expressivity) have been detailed in studies on evidentials, both from a typological perspective (Willett1988; DeLancey1997; Plungian2001; Aikhenvald2004) and in language specific descriptions (Curnow2002b, Curnow2003; Clift2006; Babel2009), but the second pragmatic dimension, *source of statement*, has received less attention in the literature. According to Hanks2012, two kinds of possible pragmatic effects belong to the *source of statement*, i.e. the *discourse modality* and the *participant roles*. *Discourse modality* refers to the perspective that speakers adopt in shaping their utterance. In this respect, Nuckolls2012 demonstrates that, in Pastaza Quichua, the use of different evidential markers in conversational context does not necessarily indicate the access to information, but it can also specify the perspective adopted by speakers towards the information.

- (11) Pastaza Quichua (Quechua languages, Ecuador y Perú; Nuckolls2012; gloss modified)

- a. *Ñuka-ta ña kai ruya-ta rikwi-i chi s^hapi-mi siri-u-n*
 I-ACC now this tree-ACC look-IMP that base-EV lie-DUR-3SG
 ‘Look at me (up in) this tree! It’s lying right at that base!’ (Context: The speaking self of the narrative event (-mi sⁿ) where Luisa becomes the voice of Tito talking to his friend)
- b. *Ni-sha-shi kapari-ni*
 say-COR-EVD shout-1SG
 ‘Saying (according to my husband) I shout’ (Context: The voice of the other (-shi), where Luisa specifies the perspective of Tito who was asserting something to her)

In examples ?? and ??, the use of two markers, i.e. the direct evidential *-mi* and the reported evidential *-shi*, does not signal a difference in the way Luisa has gained access to information. Since in both cases Luisa heard Tito’s words, it rather points out the two different perspectives from which Luisa is providing the information. In ??, by using the evidential marker *-mi*, she provides information from Tito’s perspective who *de facto* pronounced the words that she is reporting. In ??, on the other hand, by using the evidential marker *-shi*, Luisa maintains her perspective and distances herself from Tito’s words.

The change of perspective implied by the use of different evidentials, as shown for Pastaza Quichua, is essential to clarify the relevance of the second class of pragmatic effects established by Hanks2012, i.e. *participant roles*. Drawing on Goffman1981's (Goffman1981) classification, speakers can be said to occupy three roles, namely, *principal*, *author* and *animator*. The *principal* is the responsible for the utterance, i.e. the last person who committed to the information provided. The *author* is the person who has chosen the words of the utterance in the narrated world (Goffman1981), i.e. who has pronounced it for the first time. Finally, the *animator* is the person who physically produces the utterance. The three roles generally overlap within the same speaker, e.g. in the sentence "I am fine", the speaker is *principal* since s/he is taking responsibility for his/her own emotional and health status, as well as *author* and *animator* since s/he chooses the words of the statement and physically utters them.

Further elements of the description of the pragmatic features involved in the use of evidentials are provided by Kockelman2004 and Bergqvist2018c. Kockelman2004 proposes an implementation of Jakobson1957's (Jakobson1957) classification of event types by adding a *commitment event*, and by expanding the *narrated speech event* to apply to all evidential notions, calling it *source event*. The resulting set of event types is composed by the *speech event*, the *narrated event*, the *source event* and the *commitment event*. The *speech event* corresponds to the world in which the utterance is made. The *source event* corresponds to the "spoken-about world in which speaking occurs" (Kockelman2004), and may be distinguished according to the type of contact that a speaker has with a source (Kockelman2004). The *narrated event* indicates the world described in the utterance. Finally, the *commitment event* is the world where the speaker commits to the truth of the proposition expressed (Kockelman2004). In addition to this proposal, Kockelman2004 also establishes a correlation between Goffman1981's (Goffman1981) participant roles, i.e. *animator*, *author* and *principal*, and the new set of event types, i.e. the *speech event*, the *narrated event* and the *commitment event*. Within this framework, Bergqvist2018c formulates another relation that connects *source event* (Kockelman2004) with a new participant role defined as *cognizer* (Bergqvist2018c), i.e. the person who perceives the event. This set of correspondences is illustrated in ??.

If one takes the model of correspondences shown in ??, and applies this to Example ??, above, it becomes possible to provide an analysis of the pragmatic features relevant to the use of evidentials. In ??, Luisa produces the utterance as if Tito was pronouncing it. This strategy results in two series of consequences in the configuration of the correlation between event types and participant roles: first, by reproducing Tito's voice, Luisa creates an artificial overlap between the

participant roles of the two speakers, playing simultaneously the *animator* (Luisa is indeed the last who pronounced the utterance), the *author* (Tito has chosen the words of the information), the *cognizer* (Tito witnessed the event) and the *principal* (Tito committed to the truth of his statement); second, by impersonating Tito's voice, Luisa fictitiously matches the world in which she is pronouncing the utterance with the world in which Tito pronounced the utterance, i.e. the *speech event* overlaps with the *source event*, since they fictitiously occur in the same world. Given the use of the direct evidential *-mi*, the *commitment event* coincides with the *source event*. Finally, considering that the *narrated event* does not make any reference to the world in which the *speech event* occurs (e.g. in "I promise"), it will be kept separate from the others. In ??, the configuration of event types and participant roles is different. By using the reported evidential *-shi*, instead, Luisa specifies the separation between the *speech event* and the *source event*, the *narrated event* is kept distinguished from the previous two event types and, finally, the configuration of the *commitment event*, as for the correlated participant role, cannot be established.

3 Material, Participants and Method

Thirty Spanish-Aymara bilingual speakers participated in the study (17 males and 13 females, age range: 18–64). All participants first learned Aymara and then acquired Spanish during their childhood. The L2 proficiency in the standard variety of La Paz Spanish varied among the speakers depending on age and level of education. About 60% of the speakers had university level education, 26,6% had secondary education and 13,4% had primary education.

The data was collected mainly in La Paz and El Alto (Bolivia). The corpus consists of fully transcribed recordings lasting 8 hours and 24 minutes in total. The transcription convention employed (Briz2000) has also been used for the transcription of colloquial Spanish corpora and allows for a faithful representation of speech.

The corpus is divided into three parts: the first and largest part consists of the recordings of the "Family Problems Picture Task" (SanRoqueetal2012), the second part consists of five recordings of the task "The Pear Story" (Chafe1980), and the third part consists of four recordings of personal narratives.

The "Family Problems Picture Task" (FPPT) was created to activate the use of cognitive categories such as evidentiality and mirativity (SanRoqueetal2012). Its two-fold nature of problem-solving and interactive task allows the activation of inferential processes and, therefore, supports the analysis of the use of evidentials

in interactive settings. The task consists of 16 pictures in black and white that follow a defined order. The temporal sequence and content of the pictures are not always clear. Inferential processes are required to understand the order and development of the story.

The FPPT was developed in five steps: in the first step, speakers were asked to describe five of the sixteen pictures randomly selected by the fieldworker; in the second step, speakers ordered all the pictures according to the story that they believed it was represented; in the third step, one of the two participants in the first two steps was asked to describe the story built in the first person singular; in the fourth step, the other participant was asked to tell the story in the third singular person to a third person who did not participate in the task until then; finally, during the fifth step, the third participant was asked to tell the story s/he had been told. In order to facilitate data analysis, the internal organization of the transcriptions follows the same structure of the FPPT, i.e. each transcription is divided into five parts.

4 The epistemic-evidential functions of the PPI

The corpus features 78 tokens of the PPI. The analysis reveals that in most of the cases, 68%, the PPI is used according to its temporal function (see example ??), i.e. it indicates the temporal relation between two past actions; nevertheless, in a significant number of cases, 32%, the PPI seems to operate as an epistemic-evidential form, i.e. it specifies the epistemic relation between the speaker and the event. When the PPI is used as an epistemic-evidential form, it may display inferential evidence, reported evidence or mirativity. As an inferential evidential, the PPI signals inference based on observable evidence (13 cases). As a reported evidential, it signals second-hand report, i.e. the speaker has directly heard the words of someone else (9 cases). Finally, as mirative form, it indicates surprise (2 cases). Table ?? summarizes this.

Table 1: Function of the PPI in the data

Function	Nº of cases
Temporal function	54
Mirative function	2
Inferring results function	13
Reported second-hand function	9
Total	78

In the corpus, over 90% of the occurrences of the PPI (72 cases out of 78) comes from the transcriptions of the FPPT; the remaining cases come from the transcriptions of the personal narratives. By analyzing the distribution of these 72 cases among the steps of the FPPT, it turns out that the PPI appears 8 times during the first step, 5 times during the second step, 24 times during the third step, 22 times during the fourth step, and 13 times during the fifth step. By further narrowing down this analysis to the cases in which the PPI seems to operate as an epistemic-evidential forms, it is notable that all cases of PPI with evidential-epistemic functions occur within the transcriptions of the FPPT. Secondly, no case of inferences based on observable results occurs in the third (i.e. narrative in the first person) and the fifth step of the task (i.e. report of the story to a third participant). Lastly, the largest number of cases of the second-hand reported function appears in the fifth step. This distribution is presented in Table ??:

Table 2: Evidential functions of the PPI (columns) for the steps of the FPPT (rows)

FPPT	inferring results evidence	second-hand reported evidence	mirativity	total
Step I	2	1	2	5
Step II	3	-	-	3
Step III	-	1	-	1
Step IV	8	-	-	8
Step V	-	7	-	7
total	13	9	2	24

4.1 Mirative or inferential function?

The debate on the relation between evidentiality and mirativity is still an open one. On the one hand, some scholars discuss the nature of the relation between the two domains: DeLancey1997 and Aikhenvald2004 consider them as separate, while Lazard1999 and Haan2012 consider them to be related. On the other hand, recent studies (Hill2012) entirely reject the description of mirativity as an independent category, arguing that direct evidence (“sensory evidence” in Hill’s terms) is an adequate category to account for most of the markers described as miratives in the literature.

Taking into account cases in which the use of the PPI is related to the expression of a direct, visual contact with the discourse object, the data shows three

situations: (i) the PPI can simultaneously signal both an inferential and a mirative function (example ??), (ii) the PPI can signal only inference (example ??) and, (iii) the PPI can signal only mirativity (example ??).

In a few cases, it is not possible to establish a clear distinction, or a hierarchy between the inferential (Willett1988) and the mirative function of the PPI; the two functions, indeed, seem to co-exist and overlap within the same form, i.e. the PPI [cf. ??].

(12) La Paz Spanish (5_SP_TASK: 6)

- a. *El mismo es.*
the same be.PRS.3SG
'It is the same'
- b. *El mismo con su mujer.*
the same with 3.POS woman
'The same with his wife'
- c. ...
...
...
- d. *aaaa hab-ía sido agricultor el cuate*
textscinterj have-PST.IPFV.3SG be.PTCP farmer the guy
'Aaaa he is (lit. had been) a farmer, the guy'
- e. *est-án cosech-ando no*
be-PRS.3PL harvest-GER no
'They are harvesting, aren't they?'
- f. *est-án cosech-ando sí el campo es*
be-PRS.3PL harvest-GER yes the countryside be.PRS.3SG
'They are harvesting, yes, it is in the countryside'

In ??, the speakers are describing picture 8, which is the fifth image shown to participants during the first step of the FPPT, showing a man and a woman that are picking pumpkins in a garden. The remaining four pictures, previously shown to the participants during this stage of the task, depict the man in a cell (picture 3), drinking alcohol (picture 12), hitting his wife (picture 5), and standing in a courtroom (picture 7).

From observing the first four pictures, speakers are not expected to be able to guess the man's profession. Picture 8 appears to present new and partly surprising information, indicated by rising intonation and the interjection "aaaa" (see

Example ??, above). Although a mirative function is implied by this specific use of the PPl, nevertheless it is clear that an ongoing inferential process is at the foundation of the information provided. There is no doubt, that in ?? the sentence where the PPl occurs is an inference, given the fact that no pictures in the task clearly show that the man's profession is farming. A further instance of this evidential function of the PPl is found in ??.

- (13) a. *aquí / ¿qué está haciendo este señor? (3) aaa ya le empieza a contar / ha*

debido estar lejos trabajando este señor tal vez / le empieza a contar su

señora / a su hijo / todo el suceso / como hacía / como trabajaba / ¿no?

'Here, what is this man doing? Aaa now he starts to tell. He must be far away, this man, maybe. He starts to tell his wife and his son everything happened. How he did, how he worked, no?'

- b. *y su esposa escucha.*

'And his wife listens'

- c. *y acá empiezan a trabajar / debe ser al día siguiente o más tarde ¿no?*

ambos trabajan / recogen sus [zapallos].

'And here they start to work, it must be the day after or later, no? both work, they are picking pumpkins'

- d. *[zapallos]*

'Pumpkins'

- e. *o sea / estas personas son agricultores.*

'That is, these people are farmers'

- f. *aquí están llevando zapallos.*

'Here, they are carrying pumpkins'

- g. *es-os zapallo-s que han recog-ido llev-an a*
that-M.PL pumpkin-PL that have.3PL pick-PTCP carry-PRS.3PL to

vend-er a la feria allí es con su hij-ito
 sell-INF to ART.F.SG market there be.PRS.3SG with 3.POS son-DIM
es más pequeño
 be.PRS.3SG more small

‘Those pumpkins that they picked. They are carrying to the market.
 There he is with his little son, he is younger’ (glossed)

- h. *más pequeñ-ito Yola*
 more small-DIM Yola.PN

‘Younger Yola’ (glossed)

- i. *hab-ía ten-ido dos hijo-s.*
 have-PST.IPFV.3SG have-PTCP two child-PL

‘He must have (lit. had had) two children’ (glossed)

- j. *dos hijo-s aquí est-á*
 two child-PL here be-PRS.3SG

‘two children? Here it is’ (glossed)

- k. *ya aquí*
 INTERJ here

‘Yes, here’ (glossed)

Example ?? is an extract from the second stage of the FPPT. Here, the PPI is the main verb of the utterance *había tenido dos hijos* ‘s/he must have had two children’. The speakers places the pictures of the story in the following order: 13, 8 and 6.

In picture 13, a man sits talking to a woman and a boy. In picture 8, the same man is picking pumpkins in a garden with a woman. Finally, in picture 6, the man, the woman and a small child are walking together down a road, carrying two baskets full of pumpkins. After putting in order the three pictures, the speakers imagine that the actions depicted in them are performed in a few days, *debe ser al día siguiente o más tarde* ‘it must be the day after or later’. Furthermore, by comparing picture 13 to picture 6, they cannot help but notice the presence of two children with different ages. This visually available evidence produces the inference made by B that the couple has two children (*había tenido dos hijos*).

If in the previous cases (example ?? and ??) the use of the PPI is related to an ongoing inferential process, in two cases, the PPI seems to operate exclusively as a mirative form indicating the surprise of the speaker with respect to something drawn in the pictures.

- (14) La Paz Spanish (5_SP_TASK: 5)

uuu qué pas-a aquí a su mujer le
 INTERJ what happen-PRS.3SG here to his wife 3SG.DAT

hab-ía peg-ado ese maricón
 have-PST.IPFV.3SG hit-PTCP that wimp

‘Uuu, What’s happening here? That wimp has hit (lit. had hit) his wife!’

In Example ??, taken from the first stage of the task, the speaker is describing what is drawn in picture 5 (see ??c). The use of the PPL in this case, does not signal an inference, nor is it possible to consider this use of the form as related to other documented uses of the PPL in Spanish such as the expression of *consecutio temporum*, politeness or habitual aspect. Given the linguistic elements that co-occur with the PPL in Example ??, i.e. the interjection “uuu”, the appellative *ese maricón* ‘that swimp’, and the exclamatory form of the utterance, the function of the PPL aligns better with the speaker’s (negative) surprise of the man hitting the woman in the picture. This use of the PPL could therefore be said to be an instance of the mirative function, also conforming to mirative uses of this tense as noticed for Argentinian Spanish (Bermudez2008).

4.2 Secondhand reported evidential function

As a reported evidential, the PPL always signals second-hand reports, meaning that the speaker reports something that s/he has heard directly from the *author* of the utterance.

According to Spanish grammars (Maldonado1999), indirect speech is constructed through a conjugated reporting verb followed by the complementizer *que* ‘that’ and a subordinate clause, whose verb is conjugated according to specific tense agreement rules. If the reporting verb is in the present tense, then the verb of the subordinate clause will also be in the present tense, the simple past/present perfect/imperfect, or in the future tense. In the subordinate clause, the use of one tense rather than another depends on the original tense of the verb of the reported utterance.

- (15) La Paz Spanish (2_SP_TASK: 20)

[...] *uno de su-s familiar-es lo ha llev-ado prenda-s*
 one of 3.POS-PL relative-PL 3SG.ACC have-PRS.3SG take-PTCP cloth-PL
 [...]

‘one of his relatives has brought him clothes’

- (16) La Paz Spanish (2_SP_TASK: 20)

[...] *dic-e* *que algun-os familiar-es fueron* *a*
 say-PRS.3SG that some-M.PL relative-PL go.PST.3PL to
dej-ar-le *prenda-s* [...]

 leave-INF-3SG.DAT cloth-PL

‘He says that some relatives went to leave him clothes’

Examples ?? and ?? are from the fourth and the fifth stage of the FPPT, exemplify the change from direct to indirect speech in Spanish. In ??, speaker A is reporting to the fieldworker what speaker B told him during the previous stage of the task ??.

The data contains few examples of the PPl as a reported evidential. In such cases, the reporting verb is in present tense, as in ??.

- (17) La Paz Spanish (10_SP_TASK: 10)

Dos person-as van *trabaj-ando* / *una pareja* [...]

 two person-PL go.PRS.3SG work-GER a couple

 ‘two people are working, a couple’

- (18) La Paz Spanish (10_SP_TASK: 10)

ee bien dic-e *¿no? un día hab-ía* *hab-ido* *una pareja*

 well say-PRS.3SG no a day have-PST.IPFV.3SG have-PTCP a couple

 [...]

‘Well he says, doesn’t he? one day there was (lit. had been) a couple’

Examples ?? and ?? present a similar situation to the one already discussed for Examples ?? and ??. Example ?? is a reported representation of what said by the speaker C in ??. However, unlike Example ??, the use of the PPl in Example ?? cannot be analyzed in terms of tense agreement, which is clearly violated, but rather responds to the need of the speaker to distance her/himself from the reported utterance. This distancing is linguistically expressed by a removal in time of the reported utterance that and the distance between the reportative *dice* ‘s/he says’, and the subordinate clause, *había habido* ‘had had’.

The use of two different tenses in the reported speech of ?? and ??, i.e. the simple past and the PPl, respectively, depends on the epistemic-evidential function of the PPl. In both examples, the presence of the reporting verb *decir* ‘to say’ makes explicit that the information provided comes from another speaker

and that there is a subsequent epistemic distance between the speaker and the source of information. By using the simple past ??, speaker B does not add any further pragmatic information to the story and presents it as a mere outcome of a report. In contrast, the PPl in Example ?? creates a greater distance between her/himself and the information provided by situating the report in a more distant past. This allows speaker D to (i) signal that the story provided is a report and, and (ii) maintain her/his own perspective by specifying that what s/he is reporting does not represent her/his own words nor her/his view of the story. In other words, the use of the PPl as the main verb of the subordinate clause in Example ?? indicates that the speaker D does not want to commit to the story told by speaker C.

4.3 Event types and participant roles in the evidential uses of the PPl

The analysis of the configuration of the pragmatic features involved in the use of the PPl as an evidential produces two separate outcomes depending on the evidential function expressed by the PPl.

When the PPl signals inference, as in Example ??, the participant roles of *animator*, *author* and *cognizer* are placed with the speaker, since s/he (i) pronounces the utterance in the real world, (ii) chooses the words of the utterance and (iii) makes the inference. The role of *principal* in Example ??, needs some further discussion, however. Despite what is generally stated in the literature on the evidential use of the PPl (Speranza2014), in the data from La Paz Spanish there are no clear instances in support of the hypothesis that the inferential use of the PPl encodes the speaker's low, or high commitment to the truth of the information, i.e. there are no instances of additional linguistic elements, e.g. *tal vez* "maybe" or *ciertamente* "certainly", that indicate the epistemic stance of the speaker towards the information provided. This observation aligns with what Cornillie2009 states with respect to evidentials in Italian, viz that the inferring function of the simple future in Italian is not strictly tied to the expression of commitment to the truth of information. Likewise, the inferential use of the PPl does not appear to signal degree of commitment, but rather specifies the presence of an intermediary step, i.e. a cognitive process, in the acquisition of information by the speaker. Consequently, the use of the PPl as an inferential evidential does not specify the participant role of *principal* and the form could thus be considered as epistemically neutral. With respect to the configuration of event types, in Example ?? there is a clear distinction between the *narrated event* and the *speech event*, since the action described in the utterance refers to a world that is not related to the one in which the *speech event* took place. The *source event*, instead, seems to

coincide with the *speech event*; this overlap is due to the fact that the process that leads the speakers to state their inference is simultaneous to the pronunciation of the utterance. Finally, the configuration of the *commitment event* – as already mentioned for the related participant role, i.e. *principal* – does not seem to be specified in the inferential use of the form.

With regard to the evidential second-hand reported function of the PPl (Example ??), as already mentioned, the difference determined by the use of the PPl in Example ?? and the simple past in Example ?? lies in the different stance from which the speakers produce their narratives. In ??, by using the simple past, the speaker reports the story without adding an epistemic qualification. In ??, by contrast, the speaker adds epistemic information to the utterance by using the PPl. Such temporal distancing, allows the speaker to reduce her/his commitment to the truth of the proposition. Regarding the configuration of participant roles, it is relevant to notice that Examples ?? and ?? show different configurations. In ??, the role of *cognizer* coincides with the role of *animator*, while *author* remains separate and *principal* is unspecified. In ??, on the other hand, the configuration of the participant roles of *animator*, *cognizer* and *author* is the same as in ??, but the participant role of *principal* is present and coincides with that of *author*. With respect to the configuration of the event types in Examples ?? and ??, it is important to note that in reported speech, the *speech event* and the *source event* are always separated. In Examples ?? and ?? the *narrated event* is also located separately. The main distinction between the two examples, therefore, relates to the specification of the *commitment event*. While the use of the canonical reported speech in Example ?? does not imply the speaker's commitment, the use of the PPl in Example ?? features a low degree of commitment by the speaker. Figure ?? summarizes the configuration of the event types discussed for the evidential function of the PPl.

5 Conclusions

On the basis of first-hand data from La Paz Spanish, this study details the uses of the PPl and demonstrates that, beyond its normative uses, in La Paz Spanish this tense is also used to express epistemic-evidential functions. In the existing literature on the Latin American varieties of Spanish, the PPl has been described as a tense that can serve as mirative, reported speech, and endophoric evidentials. The present paper provides new findings and demonstrates that in La Paz Spanish the PPl is also used according as a inferential evidential that has been previously unnoticed. The analysis also reveals that the form can convey more than

one epistemic-evidential function simultaneously, meaning that in these cases, it is actually not possible to establish a sharp distinction between the evidential function and the mirative function, since both seem to play an important role in this use of the form. It is important to note, moreover, that in the data both the mirative and the inferential uses of the PPI are strictly related to visual access of the source of information. This last statement to a certain extent, supports Hill2012's (Hill2012) analysis of the mirative forms as markers related to sensory contact with the source event. However, given the PPI's attested epistemic-evidential functions, it is not appropriate to consider it as a "sensory evidential" (Hill2012), but more like the Turkish *-mİş*, i.e. an instance of a "mediative" (Lazard1999) form.

A further consideration concerns the speaker's commitment to the truth of the proposition marked by an evidential. In its inferential use, the PPI does not signal the speaker's commitment to the truth of the proposition and in these cases, it only expresses inference without any further epistemic connotations. By contrast, its evidential use as a (second-hand) reportative evidential, is related to the expression of a lower commitment to the truth of the information provided. I believe that this difference is basically due to the type of contact that the speaker has with the source. In the first case, the speaker has visual contact with the source that activates an inferential process based on the speaker's own logic and interpretation; in the second case, the contact with source is mediated and the speaker is aware of telling the story that another individual has formulated and whose accuracy s/he cannot confirm.

A final consideration is related to the absence of examples of the PPI expressing other evidential functions, such as inferential reasoning, third-hand report, and folklore (see Aikhenvald2004). This absence could depend either on the nature of the form that does not convey all the indirect evidential functions or on the nature of the materials used to elicit the evidential forms used in this study. In relation to this second possibility, I believe that two elements of the FPPT may have influenced my results: (i) the predominant role played by the visual contact in the development of the first four stages and (ii) the fifth stage producing mainly second-hand reported speech. Although these two elements do not preclude the use of the PPI with other epistemic-evidential functions in the whole corpus, they certainly favor certain uses rather than others. More studies of first-hand data are needed in order to improve our understanding of the epistemic-evidential uses of the PPI in both La Paz Spanish and other varieties of Latin American Spanish.

Abbreviations

1	First Person
2	Second Person
3	Third Person
ACC	Accusative
ART	Article
CON	Conditional
DAT	Dative
DIM	Diminutive
DUR	Durative
EVD	Evidential
F	Feminine
FUT	Future
GER	Gerund
IMP	Imperative
INF	Infinitive
INTERJ	Interjection
IPFV	Imperfect
M	Masculine
PL	Plural
PN	Personal Noun
POS	Possessive
PRS	Present
PST	Past
PTCP	Participle
REFL	Reflexive
SG	Singular
SUBJ	Subjunctive

Chapter 7

Same same but different: on the relationship between egophoricity and evidentiality

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Egophoricity (a.k.a. “conjunct/disjunct”) is a grammatical phenomenon whose grammatical status has been discussed controversially in recent years. While some scholars have analyzed egophoricity as a subcategory of the well-established grammatical category *evidentiality*, others have treated egophoricity as an independent grammatical category. This study aims at assessing the relationship between egophoricity and evidentiality from a functional-typological perspective. The chapter first discusses the varying structural complexity of egophoric systems against the backdrop of typological models that treat egophoricity as an evidential subcategory (e.g. [Plungian2010](#); [SanRoqueLoughnane2012](#)). It is argued that such models fare well with complex egophoric systems of the Lhasa Tibetan type (see [TournadreDorje2003](#)) but fall short of accommodating binary egophoric systems of the Kathmandu Newar type (see [Hargreaves2005](#)). In a second step, the chapter takes a closer look at systems of the Lhasa Tibetan type, arguing that there are Lhasa Tibetan-type systems in which egophoric and allophoric markers display a considerable degree of independence, both from a functional and a structural point of view. These observations provide substantial evidence for the claim that egophoricity constitutes a functional domain distinct from evidentiality.

1 Introduction

Egophoricity (a.k.a. conjunct/disjunct) is a cross-linguistically rare phenomenon that has so far only been documented for a comparatively small number of languages spoken in the Himalayas, the Caucasus, South America and Papua New



Guinea (cf. Creissels2008). The grammatical status of egophoricity is a controversial issue that has been discussed in recent years. While some scholars have analyzed egophoricity as a subcategory of the well-established grammatical category *evidentiality*, which serves the primary function of marking one's source of information (Aikhenvald2004), others have maintained that egophoricity has a different functional motivation and should be considered as a grammatical category in its own right. This paper contrasts these two approaches, arguing that egophoricity and evidentiality are best conceived of as two independent grammatical categories but still interact with each other in various ways because they share a conceptually related functional motivation.

The chapter is structured as follows: §?? discusses some terminological issues and gives a brief overview of different descriptive approaches towards egophoric systems. §?? focuses on the distinction between egophoric systems consisting of two markers and egophoric systems comprising three or more markers. It is argued that binary systems cannot easily be reconciled with existing typologies of evidentiality, which suggests that egophoricity may in fact constitute a grammatical category distinct from evidentiality. §?? further develops this argument by demonstrating that there are languages in which egophoricity and evidentiality manifest themselves as structurally independent subsystems. §?? summarizes the results of this study and highlights some directions for further research.

2 Preliminaries

2.1 Terminology

What is referred to as *egophoricity* in this chapter has been described under different names in the past. Initially, the phenomenon was known under the name “conjunct/disjunct”, a term that was introduced by HaleWatters1973 and subsequently popularized by Hale1980 and DeLancey1990. Since the 1990s, various scholars have proposed a range of additional terms, either to refer to the phenomenon itself, its subcategories, or both. Table ?? below gives an overview of some terminological proposals (see SanRoque2018 for a detailed overview).

The designation *egophoricity*, which is derived from Tournadre1991's (Tournadre1991) *egophoric*, has gained ever more acceptance in the course of the past decade and is now the most widely used term. The term “heterophoric”, which was introduced as an antonym of the term *egophoric* by Tournadre1991, never gained much currency in the literature. This is most probably due to the fact that Tournadre1991 himself abandoned the term “heterophoric” early on when he gave up his di-

Table 1: Selected terminological approaches to egophoricity

Author	Cover term	Subcategories
Tournadre1991	–	“egophoric”
		vs. “heterophoric”
Sun1993	“person”	“self-person”
		vs. “other-person”
Haller2000	“volitionality”	“volitional”
		vs. “non-volitional”
Huber2005	–	“old knowledge”
		vs. “new knowledge”
Creissels2008	“assertor’s involvement marking”	“assertor’s involvement”

chotomous analysis of the Lhasa Tibetan egophoric system (cf. **Tournadre2008**). However, various scholars have subsequently reintroduced antonyms to describe the antonymic value of *egophoric* in binary egophoric systems. These antonyms are “non-egophoric” (**SanRoque2018**), “alterphoric” (**Post2013**), and “allophoric” (**Widmer2017a**). In what follows, the terms *egophoric* and *allophoric* are used to refer to the two subcategories of egophoricity.¹

It is generally assumed that egophoric systems revolve around an epistemic role that comprises the different speech act roles to which the relevant markers may relate in different pragmatic contexts (see below for discussion). This epistemic role has been given a range of different names such as “locutor” (**Curnow1997**), “epistemic source” (**Hargreaves1991**, **Hargreaves2005**), “informant” (**BickelNichols2007**), or “assertor” (**Creissels2008**). The present chapter follows **Creissels2008** in using

¹Note that the terms *egophoricity*, *egophoric*, and *allophoric* were already used by **Dahl2000**, albeit in a different sense. **Dahl2000** does not use the term *egophoricity* to refer to an epistemic grammatical phenomenon but to distinguish between two types of reference: *egophoric reference* and *allophoric reference*. The first includes reference to speech-act participants, generic reference, and logophoric reference, whereas the latter comprises all other types of reference.

the term *assertor*.

2.2 Approaches to egophoricity

In the course of the past decades, scholars have proposed different analyses of egophoricity. In early studies (e.g. HaleWatters1973; Hale1980), egophoricity was analyzed as a peculiar type of person agreement, an approach that has occasionally been invoked by recent typological work (e.g. Aikhenvald2004; BickelNichols2007). Person-based analyses have in common that they focus on the characteristic distribution of egophoric / allophoric markers in declarative and interrogative contexts (see Table ?? below), which they contrast with the distribution of person endings in ordinary person indexation systems.

Table 2: The prototypical distribution of egophoric / allophoric markers across clause types

	DECLARATIVE	INTERROGATIVE
SPEAKER	EGO	ALLO
ADDRESSEE	ALLO	EGO
OTHER	ALLO	ALLO

Whether or not it is feasible to treat egophoricity as a manifestation of the grammatical category *person* essentially hinges on how one defines the concept *person*. A traditional notion of person that is solely based on the roles *speaker*, *addressee*, and *other* is not particularly useful for describing the distribution of egophoric and allophoric markers. However, within the framework of a broader definition that conceives of *person* as “the grammaticalization of conceptual distinctions between participants involved in speech activities” (BickelNichols2007), it is possible to establish a link between person agreement and egophoricity. Under such an approach, egophoric systems can be analyzed as person agreement systems that make a binary distinction between the assertor, viz. the speech act participant against whose knowledge a proposition is profiled, and everybody else (see Bickel2008; BickelNichols2007; Creissels2008). However, this comes at the cost of blurring the fundamental distinction between syntactic agreement (determined by syntactic roles of arguments) and pragmatic agreement (determined by the identity of speech act participants and the type of speech act).

Person-based approaches towards egophoricity offer valuable insights into the different ways in which the participants of speech acts may be conceptualized across languages. At the same time, scholars working in such frameworks have often interpreted the assertor-based conceptualization of speech acts as the

core function of egophoric systems. In other words, they have taken agreement with the assertor as the primary function of egophoricity (see **BickelNichols2007**; **Creissels2008**). This generalization is problematic for two reasons. First, a person-based analysis may work well for languages that have highly syntacticized egophoric systems, but it runs into difficulties when dealing with languages that have egophoric systems that are based on pragmatic rather than syntactic principles (cf. **SanRoque2018**). Second, there is some evidence that egophoric markers may not be invariably tied to the role of the assertor. One piece of evidence for this claim comes from the Chibchan languages Ika and Kogi. For both languages, **Bergqvist2012** (**Bergqvist2012**, **Bergqvist2016**) has described verbal affixes that are functionally reminiscent of egophoric / allophoric markers but appear to be sensitive to the speech act roles *speaker* and *addressee* rather than the epistemic role *assertor*. Another piece of evidence comes from the Tibeto-Burman language Bunan. Bunan possesses the volitive suffixes *-te* (SG) / *-the* (PL), which indicate one's intention to perform an action (**Widmer2017a**). These suffixes are clearly modal in nature and accordingly have a different functional motivation than egophoric markers (see below for a discussion of that aspect). However, they still revolve around the epistemic role of the assertor (**Widmer2017a**). These facts suggest that the epistemic role of the assertor is not a part of the functional definition of egophoricity but rather represents a distinct grammatical phenomenon that can occur independently of egophoric systems.

In sum, person-based analyses of egophoric systems are rarely propagated in the literature nowadays, most probably due to the analytical challenges outlined above. In contemporary studies, egophoricity is commonly analyzed as an epistemic phenomenon, that is to say, a grammatical means to relate the knowledge that is conveyed in a given speech act to speech act participants. These epistemic approaches can be broadly classified into two types: (i) those that conceive of egophoricity as a subcategory of evidentiality in the sense of **Aikhenvald2004**, i.e. as having “source of information” as their primary meaning, and (ii) those that treat egophoricity as an epistemic category with a different functional motivation.

Approaches that treat egophoricity as a subcategory of evidentiality in a more or less explicit manner are encountered both in cross-linguistic and language-specific studies. Typological studies that have to be mentioned in this context are **Plungian2010** and **SanRoqueLoughnane2012**. **Plungian2010** (**Plungian2010**) postulates an evidential subcategory “participatory evidence”, which indicates that a speaker knows about an event because she / he was directly involved

in it.² Although this definition is reminiscent of the functional properties of egophoric markers, **Plungian2010** does not identify participatory evidence with egophoricity (which he refers to as “conjunct/disjunct”). Rather, he states that egophoric systems are “not so much related to the grammatical expression of evidentiality but to the expression of person (i.e. that of the speaker)” (43), thus suggesting that evidentiality and egophoricity are distinct categories. At the same time, he notes that the Trans-New Guinea language Oksapmin possesses participatory evidentials (34). Indeed, **Loughnane2009** describes a “participatory-factual” or “personal-factual” evidential category for this language. However, **Loughnane2009** also explicitly compares this evidential subcategory to egophoric marking, stating that “[t]he conjunct [i.e. egophoric] term in conjunct/disjunct systems [i.e. egophoric systems] appears, at least in some languages, to be a personal evidential.” Accordingly, there is a link between **Plungian2010**’s (**Plungian2010**) notion “participatory evidence” on the one hand and egophoric marking on the other, even though **Plungian** does not make this explicit.

In their survey of evidential systems in languages of the New Guinea Highlands, **SanRoqueLoughnane2012** follow **Plungian2010** in postulating an evidential subcategory “participatory evidence”, which is used to mark events that the speaker performed herself / himself or which are generally known to her / him. Unlike **Plungian2010**, **SanRoqueLoughnane2012** explicitly link this category to egophoricity (which they call “conjunct/disjunct”), stating that the languages of the New Guinea Highlands “highlight the relevance of participatory and visual-sensory evidentials to conjunct/disjunct systems, and suggest that in certain cases “conjunct” and “disjunct” terms can be analyzed as participatory and visual(-sensory) evidentials, respectively” (**SanRoqueLoughnane2012**).

Another typologically oriented study that has to be mentioned in this context is a recent article by **TournadreLaPolla2014**. Like **Plungian2010** and **SanRoqueLoughnane2012**, the two authors treat egophoricity as an evidential subcategory which they refer to as “egophoric” or “personal”. However, unlike the above cited authors, **TournadreLaPolla2014** additionally extend **Aikhenvald2004**’s (**Aikhenvald2004**) original definition of evidentiality from simply marking one’s “source of information” to marking both one’s “source and access to information”.

Some recent language-specific studies that analyze egophoricity as an evidential subcategory are **Loughnane2009**, whose work has already been mentioned above, as well as **Norcliffe2018** and **Floyd2018**, who describe egophoric markers as a part of complex evidential systems of the Barbacoan languages Namtrik / Guambiano and Cha’palaa, respectively.

²Note that **Plungian2010** adopts the term *participatory* evidence from **Oswalt1986**.

Approaches that treat egophoricity as an epistemic category with a functional motivation different from “source of knowledge” have so far predominantly applied in the description of individual languages, in particular languages spoken in the Greater Himalayan region. The following table gives an overview of these approaches.³

Table 3: Non-evidential epistemic approaches towards egophoricity

Language	Functional motivation
Kathmandu Newar (Hargreaves1991, Hargreaves2005)	privileged access to mental states / knowledge vs.
Bunan (Widmer2017a)	non-privileged access to mental states / knowledge assimilated / personal knowledge
Dzongkha (vanDriem1992)	vs. acquired / objective knowledge
Shigatse Tibetan (Haller2000)	volitional acting
Themchen Tibetan (Haller2004)	vs. non-volitional acting
Kaike (Watters2006)	high degree of speaker involvement
Mangghuer (Slater2003)	vs. low degree of speaker involvement old knowledge
Kyirong Tibetan (Huber2005)	vs. new knowledge internal knowledge
Galo (Post2013)	vs. external knowledge
Tsafiki (Dickinson2016)	knowledge inside one’s territory of information vs. knowledge outside one’s territory of information

³It is important to note that these descriptive models differ strongly from each other in terms of terminology and the grammatical status that is assigned to egophoricity. Accordingly, it would be misleading to think of these different models as a unified approach. However, it is still justified to group them together since they all define egophoricity in a way that is not compatible with Aikhenvald2004’s (Aikhenvald2004) definition of evidentiality.

As the table illustrates, most of the above cited approaches characterize the functional motivation of egophoricity in terms of a binary contrast between two different types of knowledge, viz. privileged / personal / old / internal knowledge vs. non-privileged / objective / new / external knowledge. While individual approaches focus on different functional aspects of this dichotomy, it is clear that they essentially all describe the same phenomenon, viz. an epistemic grammatical category that is conceptually related yet functionally distinct from evidentiality (in the sense of Aikhenvald2004) and distinguishes between two types of perspectives on knowledge: an epistemically privileged and epistemically non-privileged perspective.

3 Different manifestations of egophoricity

In the languages of the world, we encounter two different structural manifestations of egophoric systems. First, there are binary egophoric systems, which instantiate a dichotomic contrast between an egophoric and an allophoric marker. Such a system can for example be found in Kathmandu Newar (Tibeto-Burman, Nepal). The endings of the Kathmandu Newar egophoric system are illustrated in Table ?? below.

Table 4: The Kathmandu Newar system (Hargreaves2005)

	EGO	ALLO
NPST	-e	-i
PST	-ā	-a

Second, there are egophoric systems in which egophoric markers directly contrast with two or more evidential markers. Such a system has for example been described for Lhasa Tibetan, whose imperfective and perfective endings are illustrated in Table ?? below.⁴

It is this variability in the structural organisation of egophoric systems that has given rise to controversies about the grammatical status of egophoricity and its relationship to evidentiality (cf. Widmer2017b). The interpretation of egophoric markers as evidentials is sensible and practical from the perspective of ternary

⁴The egophoric markers *-pa yin* and *-byung* are tied to different participant roles. The first expresses an epistemically privileged perspective in combination with agents, while the latter expresses an epistemic privileged perspective in combination with undergoers (WidmerZuniga2017). The relevance of participant roles for egophoricity is not discussed in the detail in the present chapter but only briefly touched upon in § ??.

Table 5: The Lhasa Tibetan system (DeLancey1990)

	EGO	DIRECT	INDIRECT
IPFV	-gyi yod	-gyis	-gyi yod-pa red
PFV	-pa yin / -byung	-song	-pa red

systems of the Lhasa Tibetan type, in which an egophoric marker like the imperative ending *-gyi yod* directly contrasts with the direct evidential ending *-gyis* and the indirect evidential ending *-gyi yod-pa red*. However, such an evidential analysis is more difficult to uphold for a binary system of the Kathmandu Newar type, where one only encounters a binary contrast between the egophoric markers *-e* (NPST) / *-ā* (PST) and the allophoric markers *-i* (NPST) / *-a* (PST). Consider the following sentences from Kathmandu Newar below.

- (1) Kathmandu Newar, Tibeto-Burman
 - a. *ji wan-ā*.
1SG go-PST.EGO
'I went.' (Hargreaves2005)
 - b. *ji mhiga then-a*.
1SG yesterday arrive-PST.ALLO
'I arrived yesterday.' (Hargreaves2005)
 - c. *cha wan-a*.
2SG go-PST.ALLO
'You went.' (Hargreaves2005)
 - d. *wa wan-a*.
3SG go-PST.ALLO
'S/he went.' (Hargreaves2005)

As the examples illustrate, the egophoric ending *-ā* is used whenever the assertor describes an event that she / he intentionally and consciously performed herself / himself, while the allophoric form *-a* is used whenever the assertor describes an event that she did not instigate intentionally and / or consciously or that was performed by some other person. Hargreaves1991 (Hargreaves1991, Hargreaves2005) has argued that egophoric and allophoric endings in Kathmandu Newar essentially encode an opposition of "privileged access" vs. "non-privileged access" to the mental state that is associated with intentional actions. Egophoric markers indicate that the assertor willfully instigated the event in question, while allophoric markers indicate that this is not the case.

Hargreaves' analysis can be contrasted with the evidential approaches mentioned in § ??, which analyze egophoricity as an evidential subcategory usually referred to as "participatory evidence" (Plungian2010; SanRoqueLoughnane2012). If one were to apply such a descriptive approach to the Kathmandu Newar system, egophoric markers would have to be analyzed as evidential markers that mark a proposition as being based on knowledge that was acquired through personal participation in the relevant event.

As far as egophoric markers are concerned, such a model can be implemented without difficulties, as it provides an adequate functional characterization of egophoric marking. However, matters become more complex once we turn to allophoric markers. If we consider the Kathmandu Newar egophoric system presented in Table ?? as an evidential system and analyze the endings *-e* 'NPST.EGO' and *-ā* 'PST.EGO' as expressing "participatory evidence", we also have to come up with an adequate functional characterization of the contrasting endings *-i* 'NPST.ALLO' and *-a* 'PST.ALLO'. Egophoric and allophoric endings stand in a salient functional opposition and constitute a functionally self-contained system within the verbal domain. If the egophoric endings are analyzed as evidential markers, it appears conclusive that the corresponding allophoric endings should also be assigned an evidential function. However, such an analysis poses difficulties, as it is hard to assign clear evidential semantics to these markers. It is misleading to characterize allophoric endings as direct evidentials, as they can be used in contexts in which the assertor did not directly witness an event. At the same time, it is problematic to describe allophoric endings as indirect evidentials, since they can occur in contexts in which the assertor directly observed an event.

Current typological models of evidentiality are not helpful in resolving this issue. Consider the following table, which gives an overview of the typological models proposed by Aikhenvald2004, Plungian2010, SanRoqueLoughnane2012, and Hengeveld2015.

None of the models listed above postulates an evidential subcategory that accurately characterizes the function of allophoric forms in Kathmandu Newar or other languages with binary egophoric systems. Most notably, Plungian2010 and SanRoqueLoughnane2012, which postulate participatory evidence as an evidential subcategory and apply this notion to markers that have been described as egophoric elsewhere in the literature, do not postulate another evidential subcategory that would correspond to the allophoric forms in binary egophoric systems. To be sure, SanRoqueLoughnane2012 argue that allophoric endings appear to be functionally equivalent to "visual(-sensory)" evidentials in certain languages. However, as noted above, the allophoric endings of Kathmandu Newar cannot be

Table 6: Selected typological models of evidentiality

Aikhenvald2004	Plungian2010	SanRoqueLoughnane2012	Harwood2015
–	Participatory	Participatory	–
Visual	Visual	Visual	Event perception
Sensory	Non-visual	Non-visual	Event perception
Inference	Inferential	Results	Deduction
Assumption	Presumptive	Reasoning	Inference
Hearsay	Reported	Reported	Reportativity
Quotative	Reported	Reported	Reportativity

described as direct evidentials. One might maintain an evidential analysis by augmenting **Plungian2010** and **SanRoqueLoughnane2012**'s (**SanRoqueLoughnane2012**) models with an additional allophoric / “non-participatory” evidential subcategory. However, as discussed earlier, this subcategory would be difficult to define with respect to its evidential value. These considerations illustrate that it is difficult to maintain an evidential analysis of allophoric endings and, more generally, of a binary egophoricity contrast of the Kathmandu Newar type.

Proponents of an evidential approach towards egophoricity might argue that allophoric markers could be analyzed as “non-evidential” forms that do not express any epistemic semantics. Such an analysis, however, is at odds with the fact that allophoric markers serve an epistemic function in the sense that they express the assessor's non-privileged epistemic perspective with regard to an event. One might further argue that the epistemic construal of allophoric forms only arises as a consequence of a generalized conversational implicature (see **Levinson2000**), that is to say, because they stand in direct contrast with egophoric forms. However, such a pragmatic explanation would presuppose that allophoric forms are semantically less marked than egophoric forms. This asymmetric relationship would be expected to consistently manifest itself in terms of both form (the allophoric category is morphologically less marked than egophoric category) and / or function (the egophoricity distinction is neutralized in favor of the allophoric form in certain contexts) across languages. However, there is no compelling cross-linguistic evidence for a privative semantic markedness relationship between the domains of egophoric and allophoric marking.

In sum, binary egophoric systems pose a challenge to evidential approaches. If one analyzes egophoric markers as expressing “participatory evidence”, one

is confronted with the difficulty that allophoric markers, which constitute an integral part of binary egophoric systems, cannot be adequately described under such an analysis. This observation suggests that egophoricity may not be an evidential category in the sense of Aikhenvald2004 but rather represents a functionally independent epistemic “package” that can be combined with an evidential system, as the example of Lhasa Tibetan demonstrates. If this assumption were correct, however, we would expect this functional independence to correlate with a certain degree of structural independence in ternary systems of the Lhasa Tibetan type. This hypothesis is further explored in §?? below.

4 Structural evidence for an independent status of egophoricity

4.1 Egophoricity as an independent functional domain

There are languages with ternary egophoric systems of the Lhasa Tibetan type in which egophoricity and evidentiality manifest themselves as independent functional domains. Such a system is for example attested in Bunan, a Tibeto-Burman language of North India. The language possesses a simple egophoric system in the present tense, in which there is a binary contrast between an egophoric and an allophoric form, and a more complex ternary system in the past tense, in which the egophoric form is part of paradigm that also comprises evidential markers. Table ?? and the example sentences in (??) illustrate the present tense endings.

Table 7: The present tense egophoric system of Bunan (Widmer2017a)

		EGO	ALLO
PRS	SG	- <i>ek</i>	- <i>are</i>
	PL	- ^{<i>h</i>} <i>ek</i>	- ^{<i>h</i>} <i>ak</i>

- (2) Bunan, Tibeto-Burman
- a. *gi dzamen noj dza-k-ek.*
1SG food much eat-INTR-PRS.EGO.SG
'I am eating a lot.' (Widmer fieldnotes)
- b. *han / tal dzamen noj dza-k-are.*
2[SG] / 3[SG] food much eat-INTR-PRS.ALLO.SG
'You are eating a lot.' / 'She / he is eating a lot.' (Widmer fieldnotes)

Table ?? and the example sentences in (??) illustrate the past tense endings.⁵

Table 8: The past tense egophoric system of Bunan (Widmer2017a)

EGO			ALLO	
			DIR	INFER
PST	SG	-et ~-men	-dza	-dzi
	PL		-ts ^h a	-tc ^h ok ~-ta

(3) Bunan, Tibeto-Burman

- a. *gi dzamen noj dza-et.*
1SG food much eat-PST.EGO
'I ate a lot.' (Widmer fieldnotes)
- b. *han / tal dzamen noj dza-dza.*
2[SG] / 3[SG] food much eat-PST.ALLO.DIR.SG
'You / she / he ate a lot.' (The speaker witnessed the relevant event.)
(Widmer fieldnotes)
- c. *han / tal dzamen noj dza-dzi.*
2[SG] / 3[SG] food much eat-PST.ALLO.INFER.SG
'You / she / he has eaten a lot.' (The speaker infers that the relevant event must have taken place.) (Widmer fieldnotes)

As Table ?? illustrates, Widmer2017a proposes a layered analysis of the past tense system, with an evidentiality distinction being nested inside an egophoricity distinction. This is not the only possible analysis of this past tense paradigm, however. Non-nested approaches towards structurally similar systems have been proposed in the literature as well (cf. TournadreDorje2003, Tournadre2008; SanRoqueLoughnan *inter alia*). Under a non-layered approach, the egophoric form directly contrasts with a direct evidential and an inferential form. The non-layered analysis of the Bunan past tense system is illustrated in Table ??.

At first, a non-layered analysis of the Bunan system seems more parsimonious, as it allows one (i) to reduce the number of epistemic subcategories in the past tense from four to three and (ii) to reduce the number of epistemic categories

⁵The egophoric past tense marker has the allomorphs -et ~-men, whereas the allophoric inferential past tense marker has the allomorphs -dzi (SG) / -tc^hok (PL) ~-ta. The allomorphs are lexically conditioned and depend on the transitivity class of the relevant predicate. Verbs belonging to the intransitive and middle class take the allomorphs -et and -dzi (SG) / -tc^hok (PL), while verbs belonging to the transitive class take the allomorphs -men and -ta.

Table 9: A non-layered analysis of the Bunan past tense system

		EGO	DIR	INFER	
PRS	SG	-et ~-men	-dza	-dzi	~-ta
	PL		-ts ^h a	-tɕ ^h ok	

from two to one. However, on closer examination it becomes clear that this analysis poses a number of difficulties in the case of Bunan.

If one adopts a non-layered approach and postulates *egophoric* (EGO), *direct* (DIR), and *inferential* (INFER) as directly contrasting values, it becomes impossible to relate the past tense system to the present tense system, which merely distinguishes the values *egophoric* (EGO) and *allophoric* (ALLO). In particular, such an approach fails to explain how the value *allophoric* relates to the values *direct* and *inferential*. Since a non-layered analysis presupposes that all of the aforementioned markers stand in a direct functional contrast, it entails that the values *egophoric*, *allophoric*, *direct*, and *inferential* all belong to the same functional domain. However, this analysis is at odds with the structural organization of the system, in which the values *allophoric* and *direct* / *inferential* are in complementary distribution. In order to maintain a non-layered analysis, one would have to argue that the egophoric markers are “semantically hybrid” in the sense that they can both contrast with evidential markers, which specify one’s source of knowledge, as well as with allophoric markers, which express one’s epistemic outside perspective with regard to a certain event. However, this entails that egophoricity has to be defined as a “fuzzy” semantic concept, as its subcategory *egophoric* can serve two different functions depending on the grammatical context in which it occurs. A non-layered approach towards egophoricity in Bunan thus raises a number of difficulties that can be avoided if one considers egophoricity and evidentiality as two distinct categories that are independent of each other but stand in a layered relationship.

It is important to note that the paradigm described in Table ?? is not the only paradigm in which egophoricity and evidentiality manifest themselves as two distinct functional domains. A structurally similar system is attested in the assumptive present tense, which occurs in propositions that are based on one’s overall knowledge of the world. In the assumptive present tense, the egophoricity distinction is nested inside of the evidential subcategory rather than the other way around. This is illustrated by the following table.

The following sentences illustrate the use of the assumptive present tense.

(4) Bunan, Tibeto-Burman

Table 10: The assumptive present tense endings

		ASSUM	
		EGO	ALLO
PRS	SG	<i>-men</i>	<i>-mendzi</i>
	PL		<i>-ment^hok</i>

- a. *gun eraŋ=maŋ mu noj ra-men.*
 winter 1PL.INCL=ALL snow much come-ASSUM.EGO
 ‘In winter, there is a lot of snow in Lahaul.’ (Widmer2017a)
- b. *gun eraŋ=maŋ mu noj ra-mendzi.*
 winter 1PL.INCL=ALL snow much come-ASSUM.ALLO.SG
 ‘In winter, there is a lot of snow in Lahaul.’ (Widmer2017a)

The difference between the egophoric ending *-men* and the allophoric ending *-mendzi* is so subtle that it is difficult to capture it in the English translation. The use of the egophoric ending indicates that the speaker makes this statement on the basis of knowledge that she / he considers to be personal and intimate. The use of the allophoric ending, in turn, indicates that the speaker makes this statement on the basis of knowledge that she / he considers to be equally accessible to other persons.

The assumptive present tense historically derives from a periphrastic construction consisting of the infinitive *-men* and an inflected form of the equative copula *jen-*. The originally periphrastic nature of the construction can still be seen in negated contexts. When the assumptive evidential present tense is negated, the equative copula occurs as a separate phonological word and expresses the negation.⁶ Consider the following example.

- (5) Bunan, Tibeto-Burman
khjak ra-men men mandzi=astok ra-men.
 here come-INF NEG.EQ.EGO Mandi=TERM come-ASSUM.EGO
 ‘(These trees) do not grow here (in Kullu), they can be found up to Mandi.’
 (Widmer2017a)

Accordingly, one might argue that assumptive evidentiality in Bunan cannot be considered as an evidential subcategory in its own right, as the relevant construction is still partly periphrastic in negative contexts. However, in affirmative

⁶In Bunan, verbal negation is commonly expressed by the prefix *ma-*, which attaches to the verb root (Widmer2017a). In the case of the equative copula *jen-*, the negative prefix has phonologically fused with the copula, yielding the negative copula stem *men-*.

contexts the nonfinite verb form and the copula have phonologically fused to the extent that native speakers are no longer aware that the form originally consisted of two independent syntactic constituents. From a strictly synchronic point of view, it is thus legitimate to analyze the endings *-men*, *-mendzi*, and *-mentc^hok* as nonsegmentable morphemes.

One might further argue that the notion of layeredness in itself is not a sufficient criterion to distinguish between the functional domains of egophoricity and evidentiality, as evidential subcategories can themselves display a layered structure. The Tibetan variety spoken in Spiti, North India, for example, displays a set of perfect markers that combine the semantics of direct perception evidentials with the semantics of inferential evidentials. Consider the following examples:

(6) Spiti Tibetan, Tibeto-Burman

a. *khō ārāk t^hūŋ-wanuk*

3SG liquor drink-PERF.INFER.VIS

‘He must have had liquor.’ (I can see it) (Hein2001)

b. *khō pētēā sīl-anak*

3SG book read-PERF.INFER.NONVIS

‘He must have read the book.’ (I can hear it) (Hein2001)

However, it appears that layered constructions like the one illustrated in (??), in which one grammatical form simultaneously expresses two different evidential subcategories, are rare and combinatorial possibilities of such constructions are highly restricted. These restrictions appear to be a consequence of the fact that two evidential subcategories have to relate to conceptually compatible information sources in order to complement each other. For example, it is difficult to imagine how a direct evidential contrast of visual vs. non-visual evidence could be nested inside of an assumptive evidential construction because the two subcategories presuppose conceptually distinct information sources, viz. one’s sensory perception and one’s overall knowledge of the world. One’s overall knowledge of the world cannot be accessed through any of one’s five senses. Accordingly, there is no cognitive basis for implementing a direct evidential contrast inside of an assumptive evidential construction.

Egophoricity, in turn, does not appear to be restricted in the same way and can be combined with evidential subcategories that presuppose different types of information sources. As has been demonstrated above, egophoricity oppositions can host evidential contrasts that presuppose the direct perception of an event (i.e. direct evidence) or the resultant state of an event (i.e. inferential evidence) and they can also be nested inside of evidential subcategories that presuppose

world knowledge about an event. One could of course argue that egophoricity is combinable with so many different evidential subcategories because it presupposes an unspecific type of information source. However, given the fact that there is independent evidence that egophoricity constitutes an autonomous functional domain that is distinct from evidentiality, it is much more sensible to assume that egophoricity is so versatile because it does not indicate the source of one's knowledge but rather specifies the quality of one's knowledge in terms of a binary distinction between an epistemically privileged and an epistemically non-privileged perspective.

4.2 Egophoricity as an independent morphological category

In the languages of the world, we also encounter epistemic systems in which egophoricity and evidentiality manifest themselves as morphologically independent subsystems. Such a system has been reported for the Barbacoan language Tsafiki, which displays two different sets of morphemes to encode egophoricity and evidentiality. As a consequence, the Tsafiki systems looks like a ternary system of the Lhasa Tibetan type from a functional perspective but differs from the latter in so far as egophoricity and evidentiality are realized as distinct morphological categories. This is illustrated in (??) through (??) below. In these examples, the markers *-yo* 'EGO' and *-i* 'ALLO' occur in the morphological slot after the verb root, while the inferential evidential marker *-nu* 'INFER' occurs in the morphological slot following them.

(7) Tsafiki, Barbacoan

- a. *la kuchi=ka tote-yo-e.*
1MASC pig=ACC kill-EGO-DECL
'I killed the pig.' (Dickinson2000)
- b. *la kuchi=ka tote-i-e.*
1MASC pig=ACC kill-ALLO-DECL
'I killed the pig (unintentionally).' (Dickinson2000)
- c. *la kuchi=ka tote-i-nu-e.*
1MASC pig=ACC kill-ALLO-INFER-DECL
'I must have killed the pig (unintentionally).' (Dickinson2000)

In these examples, the egophoric marker *-yo* 'EGO' expresses that the assertor intentionally and consciously killed the pig, whereas the use of the allophoric marker *-i* indicates that the assertor caused the animal's death by accident. Within

the domain of allophoric marking, there is an additional distinction between direct and inferential evidence. The presence of the inferential marker *-nu* in (??) suggests that the assertor did not directly witness the pig's death but only infers what has happened upon finding the animal's dead body, while the absence of the inferential marker in (??) indicates that the assertor observed the animal's death (cf. Dickinson2000). The combination of the egophoric marker *-yo* 'EGO' and the inferential marker *-nu* is not allowed (Dickinson2000). This restriction does not come as a surprise, however. If a predicate takes an egophoric marker, this presupposes that the speaker directly witnessed the respective events. In other words, the privileged epistemic perspective that is implied by egophoric marking entails direct perception of the relevant facts.

One might argue that syntagmaticity is not a valid argument to distinguish the two categories because syntagmatic relationships may also hold between evidential markers (cf. Aikhenvald2004; Hengeveld2015) and egophoric markers (cf. Widmer2017a; Floyd2018). However, the claim being made here is not that markers belonging to the same epistemic category should not be able to stand in a syntagmatic relationship with each other. Rather, the point is that one would expect to find systems in which egophoricity and evidentiality are encoded separately if the two categories were conceptually independent grammatical phenomena, and this is exactly what one encounters in Tsafiki.

5 Discussion

The preceding sections have discussed the relationship between egophoricity and evidentiality from a structural perspective and argued that there is substantial evidence for the claim that egophoricity constitutes a grammatical category in its own right. The arguments that have been brought forward in favor of this position focus on different aspects of egophoric systems. §?? explores the functional motivation of egophoricity by contrasting Hargreaves2005' (Hargreaves2005) analysis of the Kathmandu Newar egophoric system with an alternative "evidential approach". The section argues that such systems cannot be adequately described in terms of an evidential framework and makes a case for Hargreaves2005' (Hargreaves2005) analysis, under which egophoricity can be conceived of as a distinct epistemic category with a different functional motivation. §?? discusses the structural organization of complex epistemic systems that combine egophoric / allophoric and evidential markers. It is demonstrated that egophoricity and evidentiality constitute two functional layers in Bunan. These layers closely interact but are ultimately independent of each other. §?? adduces further evidence for

that claim by discussing the case of Tsafiki, a language in which egophoricity and evidentiality stand in a syntagmatic relationship, constituting two independent morphological subsystems.

When considered in isolation, each of the three aspects discussed above may not provide sufficient evidence to warrant the analysis of egophoricity as a grammatical category different from evidentiality. However, when taken altogether, they make a compelling case for treating egophoricity as a grammatical category in its own right. After all, egophoricity meets the minimal requirements to be considered as an autonomous grammatical category. First, egophoricity manifests itself as a functionally and formally self-contained grammatical subsystem in languages with binary egophoric systems (e.g. Kathmandu Newar). Second, egophoricity may manifest itself as a self-contained grammatical subsystem in languages with complex epistemic systems. This may either be in the form of an autonomous functional domain (as in Bunan) or in the form of autonomous morphological system (as in Tsafiki).

One could make an even stronger case for treating egophoricity as an autonomous grammatical category if one were able to demonstrate that egophoricity and evidentiality categories combine into paradigms in which they constitute two orthogonal grammatical categories whose subcategories can be freely combined. Such a hypothetical paradigm is given in Table ?? below.

Table 11: A paradigm with egophoricity and evidentiality as orthogonal categories

		Evidentiality		
		DIR	INFER	ASSUM
Egophoricity	EGO
	ALLO

However, evidence from natural languages suggests that egophoricity and evidentiality do not combine into paradigms in which they stand in an orthogonal relationship. Rather, it appears that egophoricity and evidentiality represent two distinct yet closely related functional domains that can combine into a number of different hierarchical relationships with each other. Evidence for this claim comes from the epistemic systems of Bunan and Tsafiki, which have been described in §?? and §??. In both languages, we encounter an egophoric system in which the allophoric domain hosts an additional evidential contrast between

direct vs. *inferential*. This is illustrated in Figure ?? below.

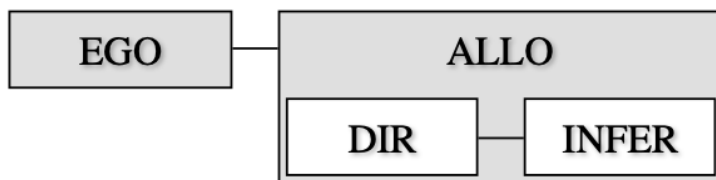


Figure 1: An egophoric system hosting an evidentiality distinction

In Bunan, we additionally encounter an evidential subcategory hosting an egophoric system. This is illustrated in Figure ?? below.

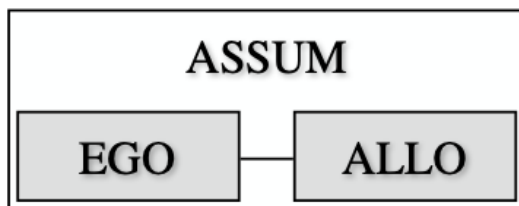


Figure 2: An evidential subcategory hosting an egophoric system

The fact that egophoricity and evidentiality fail to combine into paradigms in which they represent orthogonal categories is a consequence of their closely related semantics. Both categories essentially serve the primary function of relating the knowledge that is conveyed in propositions to specific speech act participants. However, they diverge with regard to which aspect of this knowledge relation they profile. Egophoricity specifies the quality of one's knowledge in terms of a dichotomic opposition that distinguishes between an epistemically privileged and an epistemically non-privileged perspective, while evidentiality specifies the source of one's knowledge.

The relationship between egophoricity and evidentiality is thus comparable to the relationship between the well-established grammatical categories tense and aspect (Widmer2017b). In some of the world's languages, temporal and aspectual distinctions are intertwined in such complex ways that it is difficult to tease them apart. At the same time, there is compelling cross-linguistic evidence that tense and aspect are two distinct grammatical phenomena, even though they may not be recognizable as such in all languages of the world. Accordingly, few

scholars would argue that one should abandon the distinction between tense and aspect and, for example, treat aspect as a subcategory of tense or vice versa. In my view, the relationship between egophoricity and evidentiality should be conceptualized in the same manner. In some languages, egophoricity and evidentiality may be formally and functionally integrated in one single system to the extent that there is no reason to analyze them as separate phenomena. When describing such languages, it may be feasible and justified to describe egophoricity and evidentiality as exponents of one unified grammatical subsystem. However, when treating such languages from a cross-linguistic perspective, it is necessary to make a clear distinction between egophoricity and evidentiality, as there is compelling cross-linguistic evidence that they constitute two distinct grammatical phenomena. That is not to say that egophoricity and evidentiality should only be investigated in isolation of each other. After all, the two categories are closely related from a functional point of view. However, the two categories should then not be treated as one unified grammatical category but as two autonomous epistemic categories.

6 Conclusion

This chapter has discussed the relationship between egophoricity and evidentiality and argued that there is substantial evidence for the claim that egophoricity constitutes a grammatical category in its own right. The arguments brought forward in favor of this claim are based on both functional and structural evidence. In a first part, it was demonstrated that binary egophoric systems are difficult to describe in the framework of an evidential approach, both from a language-specific as well as from a typological perspective. In a second part, it was demonstrated that there are complex epistemic systems in which egophoricity manifests itself as an independent functional layer or as an autonomous morphological system.

Several issues could not be addressed in this paper for lack of space. For example, the study has not addressed the frequently observed sensitivity of egophoric markers to participant roles (see Bickel2008; Post2013; *inter alia*). In many languages with egophoric systems, egophoric markers can only be used in contexts in which the assertor assumes a specific participant role, most often the role of an agent (cf. WidmerZemp2017; WidmerZuniga2017). While such “epistemic argument marking” (Bickel2008) also appears to be relevant for evidential markers to some extent, it is clear that the phenomenon plays a much more important role in the case of egophoricity. This suggests that the strong tendency of egophoric

markers to be tied to certain participant roles is a further characteristic that sets them apart from evidential markers. However, further research is needed to explore this topic.

Another aspect that could only be touched upon briefly in this chapter is the status of the epistemic role *assertor* in egophoric systems. As noted in §??, there is reason to believe that the assertor is a grammatical phenomenon that is independent of egophoric systems and, accordingly, is not part of the functional definition of the category. At the same time, it is a fact that the vast majority of the egophoric systems that have been described so far revolve around the notion *assertor*. This suggests that the two phenomena are still strongly connected. The nature of this connection will have to be clarified by future research.

Finally, this paper has primarily focused on the relationship between egophoricity and evidentiality, thereby neglecting potential relationships to other epistemic categories such as mood, mirativity, etc. Evidence from the languages of the world suggests that egophoricity may closely interact with these categories as well. Future research into these aspects will further enhance our understanding of egophoricity and related grammatical phenomena, thus contributing towards an ever more fine-grained picture of epistemic categories and their mutual interaction.

Abbreviations

1	1st person
2	2nd person
3	3rd person
ACC	accusative
ALL	allative
ALLO	allophoric
ASSUM	assumptive
COND	conditional
DAT	dative
DECL	declarative
DIR	direct
EGO	egophoric
EQ	equative copula
ERG	ergative
INCL	inclusive
INF	infinitive
INFER	inferential
INTR	intransitive
IPFV	imperfective
MASC	masculine
NEG	negative
NMLZ	nominalizer
PERF	perfect
PFV	perfective
PL	plural
PST	past
SG	singular
TERM	terminative

