A'INGAE PIED-PIPING: A Q-BASED ANALYSIS

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1 INTRODUCTION

In many languages, the question word (wh-word) must be initial in content questions. Such is the case in A'ingae (or Cofán, 150 639-3: con), which is an Amazonian language isolate. In A'ingae, content questions are formed by dislocating the wh-word from its canonical position towards the left edge of the sentence (1). Movement is represented with a left-pointing arrow (\longleftarrow). The movement trace is represented with a circled t ((f)).

(1) Wh-movement to left edge junguesû=ma =tsû an ①?

what=acc =3 eat
"What did (s)he eat?"

"Pied-piping" (Ross, 1967, 1986) refers to structures where the fronted constituent contains, but is not identical to the wh-word. In addition to wh-movement, A'ingae also shows pied-piping, including pied-piping by possessor (2).

(2) Pied-piping by possessor

[majambe ankhe'sû=ma] =tsû an ①?

whose food=acc =3 eat

"Whose food did (s)he eat?"

This talk explores the landscape of A'ingae's various pied-piping structures. A'ingae shows obligatory pied-piping of DPs and optional pied-piping of TPs. Secondary wh-movement is obligatory in DPs, but not in TPs. I analyze the A'ingae pattern in Cable's (2007, 2010a,b) Q-based theory of pied-piping, which models pied-piping

as movement of a phrase headed by a question (Q) particle and correctly predicts the range of A'ingae pied-piping structures.

The rest of the talk is organized as follows. Section 2 present background on the language and its speakers. Section 3 lays out the facts of A'ingae wh-movement and pied-piping. Section 4 provides a Q-based analysis of the A'ingae data. Section 5 discusses the findings and concludes.

2 LANGUAGE BACKGROUND

A'ingae (or Cofán, Iso 639-3: con) is an indigenous language spoken by ca. 1,500 Cofán people in northeast Ecuador and southern Colombia (Dąbkowski, 2021).¹ Despite spurious, mostly geography-driven, claims about genetic affiliations with

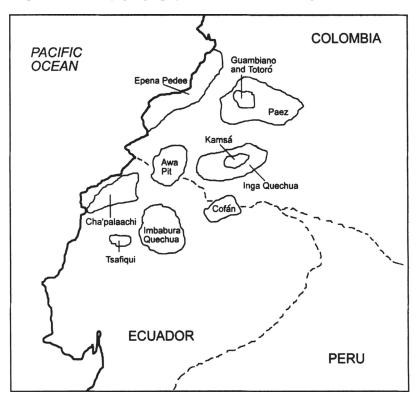


Figure 1: Indigenous languages of southern Colombia and northern Ecuador.

¹ map from Curnow and Liddicoat (1998)

other languages (e.g. with Barbacoan in Rivet, 1924, 1952 and Chicham in Ruhlen, 1987), A'ingae remains classified as a language isolate (AnderBois et al., 2019).

Around the 16th century, the Cofán still lived in the Eastern Andean Cordilleras. The history of the Cofán descent to the Amazon Basin finds reflection in their language which retains Andean features, while showing various Amazonian innovations (AnderBois et al., 2019).

A'ingae is endangered and highly underdocumented. However, despite economic, ecological, and political pressures, the Cofán language attitudes towards A'ingae are uniformly positive (Dąbkowski, 2021).

MORPHOLOGY A'ingae is an agglutinating language. In matrix clauses, word order is largely free, whereas finite subordinate clauses are verb-final. Functional categories are expressed with suffixes and enclitics.

Verbal dependents are marked for case in a nominative-accusative alignment. Case is expressed with clitics. Case clitics follow the noun phrase, within which word order is free to some extent (3).² The language displays extensive pro-drop, with both subjects and objects omitted if contextually recoverable.

(3) Word order within DP

- a. rande tsa'u =ma athe large house =ACC see "saw a large house"
- b. *tsa'u rande =ma athe* house large =ACC see "saw a large house"

DATA The data used in this paper come from elicitations with a speaker from the Ecuadorian community of Dureno, Sucumbíos.

3 DESCRIPTION

3.1 P2 clitics and wh-movement

There are five sentence-level clitics in A'ingae (Table 1). They are optional in declarative matrix clauses and illicit in subordinate clauses. When they are present, they most commonly appear in the second position of the matrix clause, hence *second-position* (P2) *clitics*.

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    =ngi 1 (first person subject)
    =ki 2 (second person subject)
    =tsû 3 (third person subject)
    =ti YNQ (polar interrogative)
    =te RPRT (reportative evidentiality)
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Table 1: Second-position clitics.

Three clitics encode matrix subject features: first person =ngi 1, second person =ki 2, and third person = $ts\hat{u}$ 3. The other two clitics encode reportative evidentiality =te RPRT, and polar questions =ti YNQ.

The "second position" is understood as the position immediately following the first full constituent. For example, a second-position clitic may surface right-adjacent to the subject (4a), the object (4b), because the A'ingae word order is largely free, but a P2 clitic may also surface right-adjacent also to a full subordinate clause (4c). Second-position clitics are boxed.

(4) Position of P2 CLITIC

- a. *ña* =ngi khuvi=ma panza 1SG =1 tapir=ACC hunt "I hunted tapir."
- b. khuvi=ma =ngi ña panza tapir=ACC =1 1SG hunt "I hunted tapir."
- c. khuvi=ma panza-'ta =ngi avûjatshi-ya tapir=ACC hunt-IF.SS =1 happy-IRR "If I hunt a tapir, I will be happy."

In wh-interrogatives, the word order is not completely free. Specifically, the constituent which is to the immediate left of the clitic must contain the wh-word (5a). The P2 clitic is mandatory (5b). The P2 clitic cannot surface to the right of an element other than the wh-constituent (5c).³

² The following abbreviations are used: 1 = first person, 2 = second person, 3 = third person, ACC = accusative, BEN = benefactive, DAT = dative, DS = different subject, IF = conditional, INF = infinitive, IRR = irrealis, NEW = new topic, P2 = second-position, Poss = possessive, RPRT = reportative, SG = singular, SS = same subject, WH = content interrogative, YNQ = polar interrogative.

 $_3$ Other material may be fronted to the left of the wh-constituent if the wh-constituent carries the clitic (i).

⁽i) kuraga maningae =tsû ja? shaman where =3 go "Where did the shaman go?"

(5) Obligatory wh-movement

- a. maningae =tsû kuraga ja? where =3 shaman go "Where did the shaman go?"
- b.?? maningae kuraga ja?
 where shaman go
 intended: "Where did the shaman go?"
- c.*kuraga =tsû maningae ja? shaman =3 where go intended: "Where did the shaman go?"

To capture these facts, I propose that A'ingae P2 clitics as matrix C-heads and that A'ingae has obligatory wн-movement to Spec,CP (Figure 2).⁴ I won't go into details here, but I provide more arguments for this analysis in Dąbkowski (to appear).

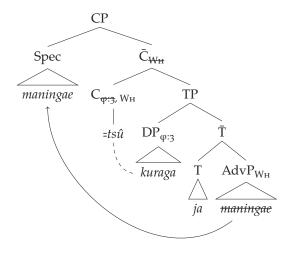


Figure 2: A tree for (5a).

3.2 Pied-piping

Possessives There are two way to express possession: An unmarked possessor followed an unmarked possessee (6a) and an unmarked possessee followed by a possessor marked with *-mbe* Poss (7a).⁵ When the possessor is unmarked, possessee-

possessor order is ungrammatical (6b). When the possessor is marked with *-mbe* poss, possessor-possessee order is at least somewhat degraded (7b).

(6)	Unmarked possessive			
	a. ña ankhe'sû	b. *ankhe'sû ña		
	1sg food	food 1sg		
	"my food"	intended: "my food		

(7) Mbe-marked possessive

a.	ankhe'sû ña=mbe		b.??ña=mbe ankhe'sû
	food	1SG=POSS	1sg=poss food
	"my food"		intended: "my food

Wн-possessees pied-pipe their possessors. The wн-possessee must be initial in the pied-pied DP. Thus, the *mbe*-marked possessives, where the possessor follows the possessee, are used in pied-piping by possessee (8a). The unmarked possessives are unavailable in wн-questions (8c-8d).

(8) Pied-piping by possessee

- b. X Wh-word not DP-initial (MBE-MARKED POSSESSOR)

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*ña=mbe junguesû=ma =ki an?

1SG=POSS what=ACC =2 eat

intended: "What (thing of) mine did you eat?"
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C. X Wh-word not DP-initial (unmarked possessor)

```
*ña junguesû=ma =ki an?

1SG what=ACC =2 eat

intended: "What (thing of) mine did you eat?"
```

d. **X** Wh-word DP-initial (unmarked possessor)

MODIFIERS Modifiers are, by and large, freely ordered. For example, they can appear before after the head noun (9a), between a possessor and the head noun (9b-9c), and even before an unmarked possessor (9d).⁶ The modifier ordering possibilities are summarized in (10).

⁴ I speculate that (i) shows subsequent movement, e.g. to Spec,FocP, or late scrambling.

⁵ The homophonous benefactive *-mbe* BEN introduces verbal adjuncts. I analyze it as a distinct marker.

⁶ Modifiers are somewhat degraded after a mbe-marked possessor (ii).

(9) Positions of modifier

- a. ke ankhe'sû ñutshia=ma =ngi in'jan 2sg food good=Acc 1 want "I want your good food."
- b. ke ñutshia ankhe'sû=ma =ngi in'jan 2sg good food=acc 1 want "I want your good food."
- c. in'jan =ndiki ankhe'sû ñutshia ña=mbe=ma? want =ynq=2 food good 1sg=poss=ACC "Do you want my good food?"
- d. *ñutshia ke ankhe'sû=ma* =ngi in'jan good 2sg food=acc 1 want "I want your good food."

(10) Positions of modifier, summarized

- a. (*ñutshia*) *ña* (*ñutshia*) *ankhe'sû* (*ñutshia*) good 1sG good food good "my good food"
- b. (*ñutshia*) ankhe'sû (*ñutshia*) *ña=mbe* ([?]*ñutshia*) good food good 1sg=poss good "my good food"

The A'ingae *junguesû*, like the English *what*, can function as a DP or a modifier. Wh-modifiers pied-pipe the DP they modify (11a). The wh-modifiers cannot be extracted (11b). The wh-modifier must be initial in the pied-piped DP (11c). If the modified noun is possessed, either an unmarked possessive (11d) or a *mbe*-marked possessive can be used (11e), but the wh-word must be initial.

(11) PIED-PIPING BY MODIFIER

a. ✓ WH-WORD DP-INITIAL

junguesû ankhe'sû=ma =tsû an?

what food=acc =3 eat

"What (kind of) food did (s)he eat?"

b. X Wh-word extracted

*junguesû =tsû ankhe'sû=ma an? what =3 food=ACC eat intended: "What (kind of) food did (s)he eat?"

c. **X** Wh-word not DP-initial

*ankhe'sû junguesû=ma =tsû an? food what=ACC =3 eat intended: "What (kind of) food did (s)he eat?"

d. **V**WH-WORD DP-INITIAL (UNMARKED POSSESSIVE) junguesû ña ankhe'sû=ma =tsû an? what 1sg food=acc 3 eat "What (kind of) food of mine did (s)he eat?"

e. **V** WH-WORD DP-INITIAL (MBE-MARKED POSSESSIVE) junguesû ankhe'sû ña-mbe-ma = tsû an? what food 1sg-poss-acc = 3 eat "What (kind of) food of mine did (s)he eat?"

As an aside, note that the initiality requirement we have been observing so far is not a lexical idiosyncrasy of $jungues\hat{u}$ 'what,' maningae 'where,' etc. These items are indeterminates, which means that they live a double life as indefinites, which need not be fronted (12).7

(12) Junguesû as indefinite

- a. *ke kukuya junguesû ña tsa'u-ma da'ñu-'ni-nda, ñukimbitshi-ya* 2sg demon what 1sg house-ACC damage-if.ds-new sad-irr "If some (kind of) demon of yours destroys my house, I will be said."
- b. *ke junguesû kukuya ña tsa'u=ma da'ñu-'ni-nda, ñukimbitshi-ya* 2sg what demon 1sg house=Acc damage-IF.Ds-New sad-IRR "If some (kind of) demon of yours destroys my house, I will be said."
- c. [?] junguesû ke kukuya ña tsa'u=ma da'ñu-'ni-nda, ñukimbitshi-ya what 2sg demon 1sg house=ACC damage-IF.Ds-NEW sad-IRR
 "If some (kind of) demon of yours destroys my house, I will be said."

TP COMPLEMENTS Verbs such as *in'jan'* want' take infinitival TP complements. Infinitival TP complements may follow (13a) or precede (13b) the matrix verb.

⁽ii) ?in'jan | -ndiki | ankhe'sû ña-mbe ñutshia-ma? want =ynq=2 food 1sg=poss good=acc "Do you want my good food?"

^{7 (12}c) was judged as unnatural, but possible.

(13) Free order of TP

- a. in'jan ankhe'sû=ma ke ña=nga afe-ye want =1 food=acc 2sg 1sg=dat give-inf "I want you to give me food."
- b. ankhe'sû=ma ke ña=nga afe-ye =ngi in'jan food=ACC 2SG 1SG=DAT give-INF =1 want "I want you to give me food."

When an infinitival TP contains a wH-interrogative DP, the DP can be extracted (14a), or the entire TP can be pied-piped (14b). Configurations where the P2 clitic is not immediately adjacent to the wH-fronted DP or the pied-piped TP are ungrammatical (14c).

(14) (OPTIONAL) PIED-PIPING OF TP

- a. ✓ P2 CLITIC RIGHT-ADJACENT TO DP junguesû=ma =ki ña ke=nga afe-ye in'jan? what=acc =2 1sG 2sG=dat give-inf want "What do you want me to give you?"
- b. ✓ P2 CLITIC RIGHT-ADJACENT TO TP junguesû=ma ña ke=nga afe-ye =ki in'jan? what=acc 1sg 2sg=dat give-inf=2 want "What do you want me to give you?"
- c. **X** P2 CLITIC RIGHT-ADJACENT TO A NON-CONSTITUENT * junguesû=ma ña ke=nga =ki afe-ye in'jan? what=acc 1sg 2sg=dat =2 give-inf want intended: "What do you want me to give you?"

Importantly, the wh-interrogative need not be initial within the pied-piped TP (15).8

(15) \checkmark Wh-word not TP-initial

- a. *ña junguesû-ma ke-nga afe-ye* =ki in'jan?

 1SG what-ACC 2SG-DAT give-INF = 2 want

 "What do you want me to give you?"
- b. *ña ke-nga junguesû-ma afe-ye* [-ki] in'jan? 1SG 2SG-DAT what-ACC give-INF = 2 want

"What do you want me to give you?"

However, the wh-word must be fronted within the DP within the pied-piped TP. Wh-possessees must precede the possessor (16a-16b) and cannot be extracted (16c). But the interrogative DP need not be initial within the TP (16d).

(16) Pied-piping of TP by possessee

- a. **W**H-WORD DP-INITIAL, TP-INITIAL junguesû ña-mbe-ma ke-nga afe-ye -ki in'jan? what 1sg-poss-acc 2sg-dat give-inf = 2 want "What (thing of) mine do you want (me) to give you?"
- b. X Wh-word not DP-initial
 - *ña junguesû-ma ke-nga afe-ye =ki in'jan?

 1SG what-ACC 2SG-DAT give-INF =2 want intended: "What (thing of) mine do you want (me) to give you?"
- C. X WH-WORD EXTRACTED
 - *junguesû ke=nga ña=mbe=ma afe-ye =ki in'jan?
 what 2sg=dat 1sg=poss=acc give-inf = 2 want
 intended: "What (thing of) mine do you want (me) to give you?"
- d. \(\sqrt{Wh-word DP-initial}, \) not TP-initial \(\text{ke=nga} \) junguesû \(\tilde{n}a=mbe=ma \) afe-ye \(\begin{array}{c} =ki \) in'jan? \(2SG=DAT \) what \(1SG=POSS=ACC \) give-inf =2 \) want \("What \) (thing of) mine do you want \((me) \) to give you?"

Likewise, wh-modifiers must must precede the head noun they modify (17a-17b) and cannot be extracted (17c). But the interrogative DP need not be initial within the TP (17d).

(17) PIED-PIPING OF TP BY MODIFIER

- a. \(\square\) Wh-word DP-initial, TP-initial junguesû ankhe'sû=ma ke=nga afe-ye =\(\frac{-ki}{ki} \) in'jan? what food=acc 2sg=dat give-inf=2 want "What (kind of) food do you want (me) to give you?"
- b. $\begin{cases} \emph{\textbf{X}} \end{cases}$ Wh-word not DP-initial
- c. X Wh-word extracted

⁸ This might because of TP-internal movement past the wн-constituent, which is independently attested (i). Thus, there is no evidence to conclusively determine whether a wн-interrogative DP undergoes movement within the pied-piped TP.

d. \(\sqrt{\text{Wh-word DP-initial}}, \text{ not TP-initial} \)
\(ke=nga \quad junguesû \quad ankhe'sû=ma \quad afe-ye \quad \quad =ki \quad in' jan? \)
\(2sg=dat \quad what \quad \text{food=acc} \quad \quad \quad give-inf=2 \quad want \quad \quad what \quad (kind \quad of) \quad \text{food do you want (me) to give you?"} \)

In interim summary, we saw that wh-words in A'ingae obligatorily pied-pipe DPs and optionally pied-pipe TPs. In declarative contexts, the word order is largely free. In wh-interrogative contexts, the wh-word must appear at the left edge of the DP it pied-pipes, but it need not appear at the left edge of a pied-piped TP.

4 ANALYSIS

To analyze the A'ingae pattern, I adopt Cable's (2007, 2010a,b) account of pied-piping. Cable proposes that the target of what is known as wh-movement is not the wh-word properly speaking, but rather a projection (QP) headed by a question (Q) particle (18). In English, the Q-particle is silent.

(18) Wh-movement as QP-movement
$$[_{QP} \not \bigcirc_{Q} what] do you want \textcircled{f}?$$

Cable's account of pied-piping has two essential components: (i) the Q-particle can attach to a phrase larger than that wh-word itself and (ii) the Q-particle may have to agree with the wh-word, which restricts word order possibilities within the QP.

First, Cable proposes that pied-piping arises when the Q-particle attaches to a phrase which contains but is itself not identical to the wn-word (19).

(19) PIED-PIPING AS QP-MOVEMENT
$$[QP \ \emptyset_Q \ in \ what \ way \]$$
 is he a better candidate (f) ?

Furthermore, in some languages, the Q-particle needs to agree with the wh-word in its complement. This may give rise to further word order restrictions in pied-piped constituents.

To see the operation of the agreement between the Q-particle and the wh-word, consider English possessives. English has two ways of expressing possession. The possessor can be either in Spec,DP (20a) or a complement to N (20b). Assuming that DPs are phases and only phase edges are accessible to probing, Cable's account predicts that only the first strategy is possible in pied-piping by possessor (21). Probing is represented with a dashed line (---). The probe is represented with a

double down-pointing arrow (\Downarrow). The material inaccessible for probing is demarcated with an arc (\frown). Failure to probe past the edge of a phase is represented with a cross (\times).

- (20) Possessive structures in English
 - a. John's pictures
 - b. pictures of John
- (21) PIED-PIPING BY POSSESSOR IN ENGLISH

a.
$$[QP \begin{picture}{l} QQ \begin{picture}{l} QP \begin{picture}{l} QQ \begin{pictur$$

Secondary wh-movement is the movement of the wh-word within the pied-piped constituent. If the Q-particle must agree with the wh-element and only phase edges are accessible for probing, Cable's model predicts that movement within the pied-piped phrase may be necessary. And this prediction is borne out by the A'ingae data.

First, the Q-particle account captures A'ingae pied-piping by possessee. Recall that there are two possessive constructions in A'ingae (6-7). Only the one with the possessor at the DP edge is available in interrogatives (22). I'm assuming here that linear order correlates with structural hight.

a. [\$\overline{\phi_{Q}} \frac{jungues\hat{u}}{\hat{n}a=mbe=ma}\$] \$\overline{-ki}\$ an \$\overline{\text{?}}\$?

what \$1\$\sq=poss=acc=2\$ eat

"What (thing of) mine did you eat?"

b. *[\$\overline{\phi_{Q}} \hat{n}a \overline{jungues\hat{u}=ma}\$] \$\overline{-ki}\$ an \$\overline{\text{?}}\$?

1\$\square \text{1}\$\square \text{wh} \text{atc} = 2\$ eat intended: "What (thing of) mine did you eat?"

Second, the Q-based account predicts the word-order facts in pied-piping by modifier (23a). Note that the movement of the wh-word within the DP is not triggered by wh-agreement with the Q-particle. The movement is possible outside of wh-contexts (9-10). However, in wh-contexts the movement is obligatory in order to avoid a derivational crash (23b).

(23) Pied-piping by modifier

```
a. [$\oldsymbol{O}_Q \text{ jungues$\hat{u}$ \nad ankhe's$\hat{u}=ma (t) ] \text{ =ts$\hat{u}$ an (t)?}

what isG food=ACC 3 eat

"What (kind of) food of mine did (s)he eat?"

b. *[$\oldsymbol{O}_Q$ \nad ankhe's$\hat{u}$ jungues$\hat{u}=ma ] \text{ =ts$\hat{u}$ an (t)?}

\text{ isG food what=ACC =3 eat intended: "What (kind of) food did (s)he eat?"}
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The optionality of pied-piping is modeled with variable height of attachment of the Q-particle. The Q-particle may attach to the interrogative DP, which results in DP movement (24a). The Q-particle may also attach to the entire TP, resulting in piped-piping of the TP (24b).

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(24) (OPTIONAL) PIED-PIPING OF TP

a. [Ø<sub>Q</sub> [<sub>DP</sub> junguesû=ma ] ] =ki afe-ye in'jan ⊕?

what=acc =2 give-inf want

"What do you want to give?"

b. [Ø<sub>Q</sub> [<sub>TP</sub> junguesû=ma afe-ye ] ] =ki in'jan ⊕?

what=acc give-inf =2 want

"What do you want to give?"
```

Assuming that TP is not a phase, it can be probed into for agreement. The Q-particle may probe for the wH-word past other DPs, so movement to the edge of TP is not necessary (25).

However, since the DP is a phase, secondary movement to the edge of DP is necessary for the wn-word to be accessible to the Q-particle's probe (26).

(26) Secondary movement within DP (within TP)

[\$\overline{\phi_Q}\$ [TP \$\tilde{n}a\$ ke=nga [DP jungues\$\tilde{u}\$ ankhe's\$\tilde{u}\$ (\$\tilde{t}\$) =ma afe-ye]] =ki in'jan (\$\tilde{t}\$)?

1SG 2SG=DAT what food =ACC give-inf =2 want

"What (kind of) food do you want me to give you?"

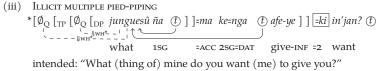
5 DISCUSSION AND CONCLUSION

I presented data which pertain to A'ingae pied-piping and secondary wh-movement. I accounted for them in Cable's Q-based theory of pied-piping which proposes that all pied-piping is really the movement of QP, with the Q-particle heading a phrase which contains the wh-word.

Certain structures are ruled out by Cable. For example, secondary pied-piping (which is pied-piping within a pied-piped phrase) triggered by the wh-probe is ruled out. Multiple pied-piping structures like that are indeed rare or unattested in the best studied languages. However, many case studies of pied-piping have been done in languages which do not allow for clausal pied-piping (Abels, 2012; Cable, 2007, 2010a,b; Heck, 2004, 2008, 2009). This is unfortunate because clauses have a lot of structure, making clausal pied-piping the perfect place to look for configurations such as multiple pied-piping.

All the Amazonian language I am aware of have wh-movement (O'Connor, 2014). In just South America, in addition to A'ingae, other languages reported to allow for clausal pied-piping include Imbabura Quechua (Hermon, 2019), Cuzco Quechua (Ortiz de Urbina, 1989), and various Tupían languages (Brandon and Seki, 1984). Nevertheless, the only extensive study of Amazonian clausal pied-piping I know of is Vivanco's (2018) thesis on Karitiana. What structures are allowed in pied-piping

⁹ Since pied-piping is modeled as QP movement, secondary pied-piping would have to involve two Q-particles. A hypothetical configuration like this is given in (iii). The lower Q-particle attaches to the DP and probes for the wн-feature of *junguesû*. Here, the wн-feature of the probe is strong (represented with the asterisk *), so it attracts the wн-word. Then, the higher Q-particle attaches to the TP and probes for the wн-feature of the lower QP. Again, the higher Q-particle's probe attracts the lower QP, resulting in multiple pied-piping.



Multiple pied-piping requires multiple Q-particles, but they are ruled out on semantic grounds: The lowest Q-particle closes off the focus alternatives of the wh-word, so the input to a higher Q-particle would be of a wrong semantic type (Cable, 2010a, p. 185). Thus, Cable predicts categorical absence of multiple pied-piping.

and why is still an open question; the study of other Amazonian languages may shed more light on these issues.

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