On Mood in Spanish Complement Clauses
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Going Romance XXV
Utrecht Institute of Linguistics (OTS), December 8-10, 2011

1. Introduction

- Verbs selecting an indicative complement clause in (Iberian) Spanish (so-called 'weak intensional verbs') (Villalta 2008):
  - Doxastic (epistemic) verbs: saber 'know', pensar 'think', creer 'believe', ...
  - Verbs of communication: decir 'say', anunciar 'announce', ...
  - Verbs of certainty: estar seguro de 'be certain that', ...
  - Verbs of commitment: e.g. prometer 'to promise'.
  - Verbs of fiction: e.g. soñar 'to dream'.
  - Verbs of mental judgement: adjudinar 'to guess', entender 'to understand', ...
  - Perception verbs: ver 'to see', escuchar 'to hear', notar 'to feel', ...

1. (1) Sofia cree / sabe que se ha IND / *se haya-SUB planeado un picnic.
   Sofia believes / knows that SE has / *has-SUB planned a picnic.
   'Sofia believes / knows that a picnic has been planned.'

1. (2) Marcela dice que Antonio vendrá-IND / *venga-SUB.
   Marcela says that Antonio come-PRES-IND / *comes-PRES-SUBJ
   'Marcela says that Antonio will come.'

1. (3) Ana soñó que podia-IND / *pudiese-SUB volar.
   Ana dreamt that COULD-IND / *could-SUB to-fly.
   'Ana dreamt that she could fly.'

- Verbs selecting a subjunctive complement clause in (Iberian) Spanish (so-called 'strong intensional verbs') (Villalta 2008):
  - Desire verbs: querer 'to want', preferir 'to prefer', desear 'to wish', intender 'to try', temer 'to fear', ...
  - Factive- emotive verbs: lamentarse de 'to regret', alegrarse de 'to be glad that', ...
  - Modal verbs: es posible 'is possible', es necesario 'is necessary', ...
  - Verbs of doubt: e.g. dudar 'to doubt'.
  - Directive verbs: ordenar 'to order', aconsejar 'to advise', pedir 'to request',
  - Causative verbs: hacer 'to make (somebody do sth.)', conseguir 'to manage', ...

1. (4) Sofia quiere que pro *planeas-IND / planeas-SUB un picnic.
   Sofia wants that you *plan-IND / plan-SUB a picnic.
   'Sofia wants you to plan a picnic.'

1. (5) Marcela se alegra de que Antonio *ha-IND / haya-SUB venido.
   Marcela SE is-glad of that Antonio *has-IND / has-SUB come
   'Marcela is glad that Antonio has come.'

1. (6) Ana ordenó que Juan *hacia-IND / hiciere-SUB los deberes.
   Ana ordered that Juan *do-IMP-IND / do-IMP-SUBJ the homework
   'Ana ordered John to do the homework.'

- This classification does not only apply to Spanish, but also --with only a few exceptions-- to Romance in general (Farkas 1992, Quer 1998). This has motivated researchers to root the IND / SUB selection in the intrinsic semantic characterization of the embedding verbs.
  - (7) "Crosslinguistically, diachronically and in the process of language acquisition and language attrition the presence of subjunctive in these contexts [MRC: in complement clauses of strong intensional verbs] is extremely robust." (Quer 1998;27)

- Traditional idea, relating mood in complement clauses to mood in conditionals:
  a. Si Juan fue-IND ayer a la fiesta, la fiesta fue-IND divertida.
     'If John went to the party yesterday, the party was fun.'
  b. Si Juan hubiese-SUBJ ido ayer a la fiesta, la fiesta habría-COND sido divertida.
     'If John had gone to the party yesterday, the party would have been fun.'
  (8) a. Si Juan va-IND mañana a la fiesta, la fiesta será-IND divertida.
     'If John goes to the party tomorrow, the party will be fun.'
  b. Si Juan fuese-SUBJ mañana a la fiesta, la fiesta sería-COND divertida.
     'If John went to the party tomorrow, the party would be fun.'

- Problem with the traditional idea: Factivity.
  A verb is factive if it presupposes that its complement clause is true. E.g. saber 'know'.
  (11) The sentence John knows that Ann is smart, when uttered in a world w, presupposes that Ann is smart is true in w.
  - Among the Vs selecting SUBJUNCTIVE, there are factive verbs, such as factive-emotives and causatives.
  - Among the Vs selecting INDICATIVE, there are non-factive verbs, e.g. soñar 'dream'.

- An large body of research has tried to recast the traditional idea while avoiding problems:

- The Goal of the present paper is two-fold:
  (i) to present problems remaining in some of the most recent analyses, namely in Giorgi and Pianesi (1997) and Villalta (2008), and
  (ii) to tentatively advance a way of implementing the traditional idea that circumvents these new problems.

- Plot:
  §2. Problems with some recent accounts.
  §3. von Fintel’s (1997) analysis of indicative and subjunctive conditionals.
  §4. Towards a proposal.
  §5. Conclusions and further issues.
2. SOME RECENT ACCOUNTS AND THEIR PROBLEMS.

2.1. Conversational backgrounds and attitude verbs

- Conversational backgrounds (Kratzer 1991):
  A conversational background is a set of propositions (cf. accessibility relation). Conversational backgrounds come in different flavours: (12).

(12) Conversational backgrounds:
- \( \text{Dox}_w(w) \) = the set of propositions that \( x \) believes in \( w \) to be true.
- \( \text{Boa}_w(w) \) = the set of propositions that \( x \) desires in \( w \) to be(come) true.
- \( \text{Deo}_w(w) \) = the set of propositions that conform to what the law provides in \( w \).
- \( \text{Cir}_w(w) \) = the set of prop. that describe the actual facts/circumstances in \( w \).
- \( \text{Epi}_w(w) \) = the set of propositions that \( x \) knows in \( w \) to be true.

(13) a. Realistic conversational backgrounds: \( \text{Cir}(w), \text{Epi}(w) \), ...
b. Non-realistic conversational backgrounds: \( \text{Dox}(w), \text{Boa}(w), \text{Deo}(w) \), ...

- Hintikka-style semantics for belief verbs (and other attitude verbs) (Hintikka 1969):
  Attitude verbs introduce quantification over the domain of worlds arising from the relevant conversational background, used as MODAL BASE.

(14) Bea believes that John teaches Semantics.
\[ \lambda w. \forall w' [ w \in \bigcap \text{Dox}_w(w_0) \rightarrow \text{John teaches semantics in } w ] \]

- Stalnaker-Heim-style semantics for desire verbs (Stalnaker 1984, Heim 1992):
  Besides a modal base, a conversational background is used as ORDERING SOURCE to establish a desirability ranking (\( \succ \)) among worlds.\(^1\)

(15) Intuitive idea:
\( x \) wants \( p \) means "\( x \) believes that: if \( p \) then \( x \) will be in a better world than if \( \neg p \)."

(16) For any \( w' \), \( w'' \in W \):
\( w'' \succ_{\text{Boa}} w' \) if \( w' \) is more desirable according to \( \text{Boa}(w_0) \) than \( w'' \).

(17) \[ [x \text{ wants } p] = \lambda w_0. \forall w \in \bigcap \text{Dox}_w(w_0) [ \text{Sim}_w(p) \rightarrow_{\text{Boa}_x(w_0)} \text{Sim}_w(\neg p) ] \]
\( = \) we are in a world \( w_0 \) such that, for every belief world \( w \) of \( x \) in \( w_0 \),
\( p \)-world maximally similar to \( w \) is more desirable to \( x \) in \( w_0 \) than any \( \neg p \)-world maximally similar to \( w \).

(18) Bea wants John to teach Semantics.
\[ \lambda w_0. \forall w \in \bigcap \text{Dox}_w(w_0) [ \text{Sim}_w(\lambda w'. \text{John teaches sem in } w') \rightarrow_{\text{Boa}(h_0) \text{bea}(w_0)} ] \]

\[ \text{Sim}_w(\lambda w'. \text{John teaches sem in } w') ] \]

\(^1\) The symbol "\( \succ \)" has been reversed from Heim (17) is the non-dynamic version of her analysis


- Their proposal for languages like French, Romanian and Spanish: Ordering Source.

(19) SUBJUNCTIVE signals that the embedding verb introduces a non-null ordering source.
INDICATIVE signals that the embedding verb has a null ordering source.

(20) a. Non-null Ordering Source: desire verbs, directive verbs, … \( \Rightarrow \) SUBJUNCTIVE
b. Null Ordering Source: doxastic verbs, verbs of communication, … \( \Rightarrow \) INDICATIVE

(21) Creo que está-IND / *esté-SUBJ cansada. [Spanish]
'I believe she is tired.'

- Their proposal for languages like Italian: kind of Modal Base.

(22) When the Ordering Source is non-null, SUBJUNCTIVE is used.
When the Ordering Source is null, then:
If the Modal Base is non-realistic, we use SUBJUNCTIVE.
If the Modal Base is at least weakly realistic, we use INDICATIVE.

(23) a. Non-null Ordering Source: desire verbs, directive verbs, … \( \Rightarrow \) SUBJUNCTIVE
b’. Null Ordering Source, non-realistic Modal Base: doxastic verbs \( \Rightarrow \) SUBJUNCTIVE
b”. Null Ordering Source, weakly realistic Modal Base (with non-empty intersection with some common ground): verbs of communication \( \Rightarrow \) INDICATIVE

(24) Credo che lei *è-IND / sia-SUBJ stancata. [Italian]
'I believe she is tired.'

- General picture:

<table>
<thead>
<tr>
<th>Ordering Source</th>
<th>Modality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-null OS</td>
<td>non-realistic MB &gt; weakly realistic MB &gt; realistic MB</td>
</tr>
<tr>
<td>Null OS</td>
<td>Fr., Rom., Sp.</td>
</tr>
<tr>
<td>Italian</td>
<td></td>
</tr>
</tbody>
</table>

\(^{4}\) Problem: this analysis does not extend to conditional sequences.
In particular, deontic conditionals like (26) involve a non-empty (and non-realistic) Ordering Source. Still, both the conditional and its matrix clause can appear in indicative.

(26) In view of what the law provides, if a murder occurs, the murderer goes to jail.
a. Modal Base: circumstantial.
b. Ordering Source: deontic.

(27) En vista de lo que la ley dictamina, si ocurre-IND un asesinato, el asesino In view of the that the lay mandates, if occurs-IND a murderer, the murderer va-IND a la cárcel. goes-IND to the jail.
2.3. Villalta’s (2008) analysis.


28. Scenario: Ted’s father left a clause in his will stipulating that Ted can only receive his inheritance if he is married by a certain date.

29. If Ted hadn’t MARRIED Alice, he would have lost his inheritance. \( \Rightarrow \) TRUE in (28)

30. If Ted hadn’t married ALICE, he would have lost his inheritance. \( \Rightarrow \) FALSE in (28)

- Villalta (2008), building on Dretske (1975), shows that strongly intensional verbs – desire verbs, factive-emotives, directives, causatives, etc. – show focus sensitivity as well.

31. Scenario: Lisa would prefer it if Lara would teach syntax rather than John. But, given that she knows that John has to teach syntax, she prefers it if he teaches it on Tuesdays and Thursdays than if he teaches it on Mondays and Wednesdays.

32. Lisa wants John to teach syntax ON TUESDAYS AND THURSDAYS.

33. “John teaching syntax on Tu & Th is more desirable to Lisa in \( w_0 \) than John teaching on some alternative days.” \( \Rightarrow \) TRUE in (31)

34. “John teaching syntax on Tu & Th is more desirable to Lisa in \( w_0 \) than some other alternative person teaching syntax on Tu & Th.” \( \Rightarrow \) NOT TRUE in (31)

- Dretske (1972) and Boër (1979) noted that verbs like believe and say do not display this focus sensitivity. Villalta (2008) generalizes the claim to other weakly intensional verbs, noting that focus is evaluated at the matrix level here.

34. Tom believes that Bob KISSED Alice.

35. “It is kissing that Tom believes Bob did to Alice.”

36. Villalta’s (2008) generalization:

- Verbs selecting SUBJUNCTIVE are focus sensitive.
- Verbs selecting INDICATIVE are not focus sensitive.

- Villalta’s (2008) analysis:
  - Strongly intensional verbs establish a comparison among focus alternatives using >NS. Thus, they have an extra argument: the focus alternative set C (non-singleton). In contrast, weakly intensional verbs do not operate on focus alternatives and do not have argument C.

36. \[ \langle x \text{ wants}_C \neg p \rangle = \lambda w_0. \forall w \in \cap \text{Dox}_x(w_0) \forall q \in C [q \text{ ep} \Rightarrow [\text{Sim}_x(p) > \text{Dox}_x(w_0) \text{Sim}_x(q)]] \]

37. \[ \langle x \text{ believes} \neg p \rangle = \lambda w_0. \forall w \in \cap \text{Dox}_x(w_0) [p(w)=1 ] \]

- SUBJUNCTIVE mood takes the focus alternatives of the embedded clause and passes them to the embedding verb.

38. \( \langle \text{SUBj}_C \text{ IP} \rangle \) is only defined if: \( C \subseteq [\text{IP}]_{\text{ALT}} \text{ and } |C|>1. \)

- INDICATIVE mood prevents the focus alternatives of the embedded clause to be passed up to the embedding verb.

39. \( \langle \text{IND}_C \text{ IP} \rangle \) is only defined if: if there is a \( C \) on the embedding verb, then \( C = [\{\text{IP}\}] \).

- Problem: some verbs selecting INDICATIVE, e.g. adivinar ‘guess’, show focus sensitivity.

40. Scenario: Ann participated in a TV show where, for each question asked, she had to quickly provide as many true answers as possible. One of the first questions asked was in what places one can buy the Spanish newspaper ElPais. She correctly answered that one can buy it at the station, at the hospital, at the university, etc. Later, when she was already very tired, she was asked what foreign newspapers one can buy at the station. She mentioned The NY Times, Le Figaro and others, but she forgot to mention ElPais.

41. Ann guessed that one can buy ElPais AT THE STATION. \( \Rightarrow \) TRUE in (40)

42. Ann guessed that one can buy ElPais at the station. \( \Rightarrow \) NOT TRUE in (40)

- A further problem: her analysis does not extend to mood in conditional sequences. Focus sensitivity is found in conditionals regardless of whether they appear in the subjunctive, as in (29)-(30), or in the indicative, as in (44)-(45).

43. Scenario: Ted is deeply in love with Alice but does not believe in matrimony. Ted’s father left a clause in his will stipulating that Ted can only receive his inheritance if he is married within a month from today.

44. If Ted doesn’t MARRY Alice, he will lose his inheritance. \( \Rightarrow \) TRUE in (43)

45. If Ted doesn’t married ALICE, he will lose his inheritance. \( \Rightarrow \) FALSE in (43)
3. von Fintel’s (1997) analysis of indicative and subjunctive conditionals

(46) If John went to the party yesterday, it was fun. INDICATIVE ((8a))
(47) If John had gone to the party yesterday, it would have been fun. SUBJUNCTIVE ((8b))

- Antecedent falsity (i.e., counterfactuality) is not “hard-wired” in Subjunctive had-would conditionals, that is, it is not an entailment or presupposition of these conditionals:

(48) Scenario: The doctor is trying to figure out what Jones took. Doctor says (49).
(49) If Jones had taken arsenic, he would be showing the symptoms that he is in fact showing. So, it is quite probable that he took arsenic. (=Anderson 1951)

⇒ Thus, subjunctive in conditionals does not express antecedent falsity, but sth weaker.

von Fintel’s (1997) proposal for mood in conditionals (slightly modified):
D: domain of worlds quantified over.\(^2\) CG: Common Ground.

(50) INDICATIVE conditionals have this natural pragmatic constraint: \(D \subseteq CG\)
SUBJUNCTIVE conditionals presuppose: \(D \nsubseteq CG\)

- INDICATIVE:

(51) If John went to the party yesterday, it was fun.
\(\lambda w_0. \forall w \in \text{Sim}_w(\lambda w'. \text{John went to party in } w')\) [the party was fun in w]

⇒ INDICATIVE signals that this set is a subset of the CG. For that to be true, the antecedent clause John went to the party must be compatible with the CG.

- CASE 1 of SUBJUNCTIVE: antecedent falsity.

(52) If John had gone to the party yesterday, it would have been fun.
\(\lambda w_0. \forall w \in \text{Sim}_w(\lambda w'. \text{John went to party in } w')\) [the party was in w]

⇒ SUBJUNCTIVE signals that this set is not a subset of the CG. One way for this presupposition to be satisfied is this: the antecedent clause John went to the party is simply incompatible with the CG.

\(^2\) D is the Modal Base selected for each w in von Fintel’s strict conditional analysis of conditionals. We use Lewis’ (1973) variability strict analysis instead and take D to be the final set of worlds that make the if-clause true and are otherwise most similar to those in the Modal Base. The formulas in (51)-(54) are my implementation.

- CASE 2 of SUBJUNCTIVE: subjunctive passages.

(53) If Polly had come to dinner tonight, we would have had a good time. If Uli had made the same amount of food that he in fact made, she would have eaten most of it.

(54) If Uli had made the same amount of food that he in fact made, she would have eaten most of it.
\(\lambda w_0. \forall w \in \text{Sim}_w(\lambda w'. \text{Polly came to dinner in } w')\) \(\forall w' \in \text{Sim}_w(\lambda w'''. \text{Uli made (actual) amount of food in } w''')\) [party was in w']

⇒ SUBJUNCTIVE signals that this set is not a subset of the CG. A second way to satisfy this presupposition is this: the antecedent clause Uli had made the same amount of food that he in fact made (=p) is in fact true in CG, but Sim\(_w(p)\) ends up selecting a non-subset of the CG due to modal subordination.

4. Towards a proposal.

- Idea: von Fintel’s proposal understood as making a distinction between (natural) contextual domain restrictions vs. widened domains, applied to mood in complement clauses.

(55) D \(\subseteq\) CG for INDICATIVE ⇒ Regular contextual restriction over the world domain of quantification
D \(\nsubseteq\) CG for SUBJUNCTIVE ⇒ Widening of the world domain of quantification (basically, CG \(\subseteq\) D).

- Intuition that the SUBJUNCTIVE is, in a way, a POLARITY ITEM (Brugger and D’Angelo 1994, Giannakidou 1995):

(56) *elpízo na férís kanénaan filo su sto párti [Greek]‘I hope SUB-you-bring any friend yours in-the party’
(57) *onímíríftika oti írthe kanénas [Greek]‘I dreamt that IND came anyone’

- When conditionals are embedded, we have a “local” CG: \(\exists x \text{Do}_x(w_0)\).

(58) Mary says / believes [that, if the John went to the party, it was fun].
(59) Mary says / believes [that, if John had gone to the party, it would have been fun].
In all these cases, we need to use both \( p \) and \( \neg p \), and one of the two is false in the "local" CG.

Von Fintel's Case 1.

- **Indicative** complement clauses: indicative signals that the embedded proposition is only defined for worlds in the "local" CG, i.e. \( \text{Dox}_0(w) \).

\[ \text{(60)} \]
- \( \lambda w: \forall w \in \cap \text{Dox}_0(w_0) \neg p(w) \]
- \( \forall w \in \cap \text{Dox}_0(w_0) [\text{Sim}_0(p) \Rightarrow \text{Box}_x(w_0) \text{Sim}_0(\neg p)] \]
- Presupposition: in x's beliefs worlds in \( w_0 \), \( p \) is false.
- Assertion: we are in a world \( w_0 \) such that, for every belief world \( w \) of \( x \) in \( w_0 \), every non-\( p \)-world maximally similar to \( w \) is more desirable to \( x \) in \( w_0 \) than any non-\( p \)-world maximally similar to \( w \).

If for \( \text{Sim}_0(p) \) to be defined, \( p \) has to have the shape in (61a), that is, its domain cannot be a subset of \( \cap \text{Dox}_0(w_0) \).

\[ \text{(63)} \]
- \( \lambda w: \forall w \in \cap \text{Dox}_0(w_0) [\neg p(w)] \]
- \( \forall w \in \cap \text{Dox}_0(w_0) [\text{Sim}_0(\neg p) \Rightarrow \text{Box}_x(w_0) \text{Sim}_0(p)] \)
- Presupposition: in x's beliefs worlds in \( w_0 \), \( p \) is true.
- Assertion: we are in a world \( w_0 \) such that, for every belief world \( w \) of \( x \) in \( w_0 \), every non-\( p \)-world maximally similar to \( w \) is more desirable to \( x \) in \( w_0 \) than any non-\( p \)-world maximally similar to \( w \).

If for \( \text{Sim}_0(\neg p) \) to be defined, \( \neg p \), and thus also \( p \), has to have the shape in (61a), that is, its domain cannot be a subset of \( \cap \text{Dox}_0(w_0) \).

\[ \text{(64)} \]
- \( \lambda w: \forall w \in \cap \text{Dox}_0(w_0) [\neg q(w)] \)
- \( \forall w \in \cap \text{Sim}_0(\neg q) \neg p(w) \)
- Presupposition: \( q \) and \( p \) are both true in \( w_0 \).
- Assertion: we are in a world \( w_0 \) such that:
  - in every non-\( p \)-world maximally similar to \( w_0 \), not-\( p \) is the case in that world.
  - For \( \neg p(w) \) to be defined, \( \neg p \), and thus also \( p \), has to have the shape in (61a), that is, its domain cannot be a subset CG.

In this case, \( p \) and \( \neg p \) are compatible with the "local" CG, but we need to compute \( \text{Sim}_0(p) \) for worlds \( w \) already outside the "local" CG, as if we had Modal Subordination.

Von Fintel's Case 2.

- Second batch of **Subjunctive** complement clauses: want and alike.
  - First try:
    - \( \lambda w: \forall w \in \cap \text{Dox}_0(w_0) [p(w)] \)
    - \( \forall w \in \cap \text{Dox}_0(w_0) [\text{Sim}_0(p) \Rightarrow \text{Box}_x(w_0) \text{Sim}_0(\neg p)] \)
    - Presupposition: \( p \) is compatible with what x's believes in \( w_0 \).
    - Assertion: we are in a world \( w_0 \) such that, for every belief world \( w \) of \( x \) in \( w_0 \), every non-\( p \)-world maximally similar to \( w \) is more desirable to \( x \) in \( w_0 \) than any non-\( p \)-world maximally similar to \( w \).
    - For \( \text{Sim}_0(p) \) and \( \text{Sim}_0(\neg p) \) to be defined, it is enough for \( p \) to have the **indicative** shape in (60a)!!

- Revising \( \cap \text{Dox}_0(w_0) \):

  - **Villalta (2008) on practical inferences:**
    a. I want to teach Tuesdays and Thursdays next semester.
    b. I believe that I will teach Tu and Th next semester if and only if I work hard now.
    c. Invalid inference: I want to work hard now.

  - Scenario: Ann wants to teach Tu and Th next semester. She wants not to work hard now. These two desires are incompatible with each other in her belief worlds, that is, she knows that she teaches on Tu and Th next semester if and only if she works hard now.

  - Ann wants to work hard now. \( \Rightarrow \) False in scenario (67).

  - Scenario: Ann wants to teach Tu and Th next semester. She does not have any particular preference about her lunch time next semester. She finds out that, for her to teach Tu & Th next semester, she would have to have lunch at 1pm. Her secretary comes and asks Ann when she wants to have lunch next semester. Ann answers (70).

  - I want to have lunch at 1pm next semester. \( \Rightarrow \) True in scenario (69).

- Second try:
  - Idea: \( x \) wants \( p \) involves a revision of x's beliefs worlds as to eliminate incompatibilities between different desires. \( x \) wants \( p \) means "x prefers her revised-belief p-worlds over her revised-belief non-p-worlds".

  - \( \text{Rev}_{\text{MB}}(\text{MB}) = [\text{Sim}_0(\neg q) \Rightarrow \text{Box}_x(w_0) \text{Sim}_0(q)] \)
  - For \( \text{Sim}_0(q) \) to be defined, \( q \), and thus also \( p \), has to have the shape in (61a), that is, its domain cannot be a subset of \( \cap \text{Dox}_0(w_0) \).

  - Since some worlds \( w \) are already out of \( \cap \text{Dox}_0(w_0) \), for \( \text{Sim}_0(p) \) to be defined, \( p \) has to have the shape in (61a), that is, its domain cannot be a subset of \( \cap \text{Dox}_0(w_0) \).
5. Conclusions and further issues.

Elaborating on von Fintel’s (1997) analysis of conditionals, we have proposed that mood distribution in complement clauses in Spanish (and other Romance languages) is determined by the domain of the embedded proposition $p$, which in turn is minimally determined by the inherent semantics of the embedding predicate.

Future work: directives, dubitatives, and modal verbs.

In its present shape, the sketched analysis can be seen as a particular implementation (à la Kadmon and Landman 1993) of the idea that subjunctive is a polarity item (cf. Brugger and D’Angelo 1994, Giannakidou 1995).

A comparison with analyses where subjunctive is simply the unmarked / default case is left for future research.

Bibliography