On Modal Interpretations of the French Conditionnel*

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1. Introduction

The first goal of this paper is to pursue a uniform formal semantic analysis of different modal uses of the French conditionnel morphology, so named for its use in the main clause of counterfactual (aka remote or subjunctive) conditionals.

(1) S’il n’était pas linguiste, il serait comédien.
   ‘If he were not an actor, he would be an actor.’

   It is possible to analyze the morphology as composed of future and perfective morphology (e.g. Iatridou 2000); however for the purpose of analyzing its interaction with certain modals and attitude predicates, I will treat it as a unit. I will also assume differences in person and number (je mangerais ‘I would eat’; ils mangeraient ‘they would eat’) to be orthogonal.

   The second goal is be an analysis of the related phenomena in English, including the morphologically preterite forms of modals (should, ought to, might and could) and the attitude verb wish.

   Section 2 argues that the core shared meaning of the conditionnel is its possible counterfactuality. In the analysis proposed, should, for example, is a necessity modal embedded under a counterfactual operator like would. Section 3 proposes an account of the difference in meaning between, for example, should and would have to, based on certain characteristic discourse properties.

2. (Possible) Counterfactuality
2.1 Epistemic doit and devrait

Copley (2005) presents a contrast between epistemic must and should (see English glosses in 2) which also obtain in French. French devrait and English ought to/should are

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felicitous with a continuation that the speaker is ignorant of the truth of the embedded proposition (henceforth “prejacent”), while the same continuation following have to/must ‘doit’ is infelicitous, or at least more marked in comparison.

(2) a. # La bière doit être froide maintenant, mais je n’ai aucune idée si c’est le cas.  
    # ‘The beer has to/must be cold by now, but I have absolutely no idea if it is.’
  b. La bière devrait être froide maintenant, mais je n’ai aucune idée si c’est le cas.  
    ‘The beer ought to/should be cold by now but I have no idea if it is.’

The same contrast holds for a continuation in which the speaker denies the truth of the prejacent.

(3) a. # La bière doit être froide maintenant, mais elle ne l’est pas.  
    # ‘The beer has to/must be cold by now, but it’s not.’
  b. La bière devrait être froide maintenant, mais elle ne l’est pas.  
    ‘The beer ought to/should be cold by now, but it’s not.’

Note that reordering the conjuncts does not remove the infelicity.

(4) # Je n’ai aucune idée si la bière est froide, mais elle doit l’être maintenant.  
    # ‘I have absolutely no idea if the beer is cold, but it has to/must be by now.’

(5) # La bière n’est pas froide, mais elle doit l’être maintenant.  
    # ‘The beer isn’t cold, but it has to/must be by now.’

Following Kratzer (1981, 1991), epistemic have to/must has an epistemic modal base, consisting of all possible worlds consistent with the speaker’s knowledge (e.g. worlds in which the speaker put beer in the fridge three hours ago), and a stereotypical ordering source, consisting of worlds that follow the normal course of events (e.g. worlds in which putting items in a fridge causes them to chill within a certain period of time). I assert must p because all my evidence tells me that p; therefore, it is unsurprising that the continuation I have absolutely no idea whether p is infelicitous. And asserting both must p and not p, Copley argues, amounts to a case of Moore’s paradox: p and I don’t believe that p. Epistemic doit and have to/must behave as expected. The utterances with devrait and ought to/should, in comparison, are perfectly acceptable.1

The contrast also holds for the past forms of the modals (i.e. with perfect avoir ‘have’). Suppose we are attending a day-long workshop at a windowless venue. I haven’t left the building all day, but remember that the forecast was calling for quite a lot of rain and that the sky was full of dark stormclouds. At the end of the day, I walk outside only to discover that the grass and pavement are bone dry. Uttering (6a) is infelicitous, while (6b) is quite natural.

1 See also relevant discussion in Werner (2005). In Werner’s analysis, must entails will according to a hierarchy of ordering sources; by stipulation, ought to/should lies outside of the hierarchy.
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(6)  
a. # Il a dû pleuvoir, mais il n’a pas plu.
    # ‘It must/has to have rained, but it didn’t.’
b. ‘Il aurait dû pleuvoir, mais il n’a pas plu.
    ‘It should/must have rained, but it didn’t.’

(6a) is another case of Moore’s paradox: it asserts both that I know that it didn’t rain and that among all the worlds consistent with my knowledge right now the closest stereotypical worlds are those in which it rained in the past.  

Since it is only the *conditionnel* morphology which distinguishes the French forms *doit* and *devrait*, and *a dû* and *aurait dû*, we will therefore pursue the hypothesis that the *conditionnel* (and something analogous in English) is responsible for this contrast. Informally, we will say that the modals in the (b) examples are epistemic in flavor, yet somehow allow consideration of worlds not among the speaker’s epistemic alternatives, indeed even possibly counterfactual.

### 2.2 Deontic *doit* and *devrait*

Ninan (2005) observes a similar contrast between deontic *must* and *should*, which also holds between French *doit* and *devrait*. In virtue of Sam’s sins, Sam’s mother utters one of the following:

(7)  
a. # Sam doit se rendre à la confession, mais il n’y va pas.
    # ‘Sam has to/must go to confession, but he’s not going to.’
b. Sam devrait se rendre à la confession, mais il n’y va pas.
    ‘Sam ought to/should go to confession, but he’s not going to.’

The apparent infelicity of *doit* and *have to/must* persists despite reordering of conjuncts or change of person.

(8)  
# Sam ne se rend pas à la confession, mais il doit le faire.
# ‘Sam isn’t going to go to confession, but he has to/must.’

(9)  
# Je dois me rendre à la confession, mais je n’y vais pas.
# ‘I have to/must go to confession, but I’m not going to.’

In Section 2.1, we found epistemic *must* and *doit* well behaved and epistemic *ought to/should* and *devrait* aberrant. Here, it seems at first that the situation is reversed. Since obligations can and often do go unfulfilled, we can imagine a possible world in which Sam has to go to confession and Sam isn’t going to go to confession are both true. Indeed, Kratzer’s analysis of deontic necessity is motivated by this potential conflict between what is required and what actually obtains. We analyze *must* or *have to* in this case with a modal base of worlds consistent with the circumstances (viz. Sam has committed

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2 Here I assume that an epistemic modal scopes above the perfect operator; see Iatridou (1991), Abusch (1997), Stowell (2004) and Hacquard (2006) for discussion.
sins) and an ordering source of worlds consistent with religious or moral norms (viz. sinners confess their sins). *Sam doit se rendre à la confession* can be true even if the modal base does not contain worlds in which Sam follows religious norms and goes to confession. In other words, we do not expect an infelicity. *Ought to/should* behaves as expected. It is *must* (and *have to*) which, according to Ninan, requires special treatment. Ninan’s move is to introduce epistemic content into the semantics of *must*—but not *ought to/should*. Rather than a circumstantial modal base, *must* would have an epistemic modal base and thus, just as we saw above for epistemic modals, the infelicity of examples like (7a) are reduced to a variation of Moore’s paradox: in the first conjunct of (7a) Sam’s mother implies that she does not know whether he will go to confession (her epistemic alternatives include both worlds in which he goes to confession and worlds in which he does not), yet in the second conjunct she asserts that he will not.

While the similarity of this account of deontic necessity to Copley’s account of epistemic necessity is certainly striking, I’m not sure it is necessary to posit an epistemic modal base for deontic modals in order to maintain the symmetry. Given the non omniscience of a speaker, it seems plausible that a circumstantial modal base (the set of worlds consistent with the circumstances in the world of evaluation) must almost certainly be relative to the speaker and/or speech participants. A modal uttered by one of Galileo’s contemporaries, for example, would arguably not have a modal base of worlds consistent with the world being round. The advantage of positing a circumstantial modal base is that we don’t have to treat deontic *doit* and *have to/must* as special. All the deontic modals have a circumstantial modal base, and we can again ask why *devrait* and *ought to/should* behave differently with respect to Moore's paradox and what it is about the semantics of the *conditionnel* that gives rise to this behavior.

Turning to the past forms, English *have to* and *must* lack a deontic interpretation entirely (cf. (10a)) which is available with (and even the most natural reading of) *should/ought to have*. Ninan argues that the unavailability of the deontic reading is ruled out pragmatically: we cannot require that someone bring about a past event. Since the relative scope of *have to/must* and past *have* is fixed, the reading in which an obligation held in the past is also not available. The *past > NEC* deontic reading is, however, available for English *had to* and French *a dû*. Like the present forms, this reading too implies⁵ that the prejacent obtained, e.g. that Sam did in fact go to confession; English *ought to/should* and French *devoir* with the *conditionnel* again allow a reading in which the prejacent does not obtain.

(10) a. Sam *a dû* se rendre à la confession.
   (i) ‘Sam *must/has to have* gone to confession.’
   (ii) ‘Sam *had* to go to confession.’

b. Sam *aurait dû* se rendre à la confession.
   ‘Sam *should/ought to have* gone to confession.’

Again informally, we will say that there is something about the (b) examples that

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⁵ Hacquard (2006) shows that in French the actuality is entailed.
allows consideration of worlds which are not available to be considered in the (a) examples, worlds which may even be counterfactual.

2.3 Propositional Attitude Verbs \textit{veut} and \textit{voudrait}

Heim (1992) observed what I will argue to be the same contrast for English \textit{want} and \textit{wish}, a contrast which also holds between the related French verbs \textit{veut} and \textit{voudrait}. In (11) based on Heim’s example, we get the strong impression in (b) that Karin believes it very unlikely or impossible that her husband will teach on Tuesdays and Thursdays.

(11) a. Karin \textit{veut} que son mari enseigne les mardis et les jeudis.
    ‘Karin \textit{wants} her husband to teach Tuesdays and Thursdays.’

    b. Karin \textit{voudrait} que son mari enseigne les mardis et les jeudis.
    ‘Karin’s husband \textit{wishes} that her husband would teach Tuesdays and Thursdays.’

The modal base is again doxastic: the set of worlds consistent with the speaker’s belief; the ordering source is buletic, consisting of worlds in which the speaker’s desires are met. Consider a truly impossible prejacent, one in which time stands still (example adapted from Heim).

(12) a. # Je \textit{veux} que ce weekend continue pour toujours.
    # ‘I \textit{want} this weekend to last forever.’

    b. Je \textit{voudrais} que ce weekend continue pour toujours.
    ‘I \textit{wish} this weekend would last forever.’

While some speakers may not reject (12a) outright, Heim suggests that there is an important sense in which the speaker of (12b) admits the impossibility of realizing her desire and the speaker of (12a) does not, perhaps in a metaphorical or schizophrenic way: “The reasonable part of me knows and is resigned to the fact that time passes, but the primitive creature of passion has lost sight of it” (200).

We arrive at another variant of Moore’s Paradox, since there are, for any rational speaker, no doxastic alternatives in which a weekend lasts forever, and \textit{veut} or \textit{want} assert that the most desirable belief worlds are worlds in which the weekend lasts forever. \textit{Voudrais} and \textit{wish} are not paradoxical; therefore, still following the spirit of Heim’s analysis, they must be able to quantify over worlds which are counterfactual.

Since there are also syntactic differences between \textit{want} and \textit{wish}—the former takes an infinitival complement and the latter a finite complement with subjunctive morphology, it is worth noting that the semantic contrast in French exists independently of the syntactic category of the complement. The prejacent of (12) is finite; in (13), it is infinitival.

\footnote{Heim’s original proposal was set in a dynamic framework but the spirit is, I believe, the same.}
(13) a. # Je _veux_ être enceinte. [uttered by a man]
    # ‘I _want_ to be pregnant.’
   b. Je _voudrais_ être enceinte. [uttered by a man]
    ‘I _wish_ I were pregnant.’

2.4 Epistemic _peut_ and _pourrait_

While epistemic _peut_ and _may_ often appear interchangeable with _pourrait_ and _might_, respectively, many speakers intuit a difference in tentativeness or remoteness (see Palmer (1979, 1986) and Huddleston (2002) for English).

(14) a. Vous _pouvez_ avoir raison.
    ‘You _may_ be right.’
   b. Vous _pourriez_ avoir raison.
    ‘You _might_ be right.’

   It is also possible to find counterfactual examples which distinguish the two. Suppose we are in a game preserve located in France with African animals in a desert-like landscape. We know that we are still in France, but nearly all of the evidence available would suggest that we are in Africa.

(15) a. # On _peut_ être en Afrique. [uttered in France]
    # ‘We _may_ be in Africa.’
   b. On _pourrait_ être en Afrique. [uttered in France]
    ‘We _might_/ _could_ be in Africa.’

   (English data from Huddleston (2002))

   English _might have_ and _could have_ have received much more attention (cf. Condoravdi (2001), Stowell (2004)). Both _may/can have_ and _a pu_ on the one hand and _might/could have_ and _aurait pu_ on the other allow a present epistemic reading about a past event. Both (16a) and (16b) have readings on which it is now an epistemic possibility that Jules won in the past, with apparent scope POSS>PAST. What (16b) has that (16a) lacks is a reading in which there was a past possibility that Jules would win, even if we now know that he did not in fact win.

(16) a. Jules _a pu_ gagné.
    ‘Jules _can/may_ have won.’
    ‘Jules _could/might_ have won’

   (English data modified from Condoravdi 2001)

_Could/might have_ and _aurait pu_ appear to contradict the generalization that epistemic modals cannot generally be interpreted below past tense (cf. fn 2). Condoravdi (2001) and others are therefore lead to introduce a metaphysical, historical or counterfactual modal base. Following our reasoning so far, however, if we can consider the evidence in counterfactual worlds, worlds in which things turned out differently, the evidence in those worlds is in fact consistent with Jules’s winning. In (6b), we were able to overlook our knowledge of it having in fact rained; in (16b), we ignore our knowledge of Jules
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having won.

### 2.5 Deontic *peut* and *pourrait*

A similar difference in tentativeness/remoteness and sometimes politeness is observed between deontic *peut* and *can*, and *pourrait* and *could*.

(17)  a. *Pouvez-vous* passer le sel?
   ‘Can you pass the salt?’

   b. *Pourriez-vous* passer le sel?
   ‘Could you pass the salt?’

Ninan (2005) argues that one cannot require someone to bring about past events. It should be equally odd to give permission that someone bring about a past event, ruling out the scope `POSS>PAST`. The `PAST>POSS` interpretation is ruled out in English by its fixed scope, but is available in French. In fact, there is an actuality entailment in French: in (18a) you did in fact do the dishes. (18a) asserts that there is at least one closest normative belief world in which I did the dishes; it is therefore Moore-paradoxical if the speaker believes that you did not do the dishes. In (18b), however, both the French and English versions are consistent with your not having done the dishes. Note that (18b) is also special in that it seems stronger than mere permission. Huddleston (2002) suggests that a kind of pragmatic strengthening is present in such examples (see also Palmer (1979:159) and von Fintel and Gillies (2007:fn.4)).

(18)  a. *Vous avez pu* faire la vaisselle.
   # ‘You *can/may have* done the dishes.’
   ‘You were permitted to do the dishes.’

   b. *Vous auriez pu* faire la vaisselle!
   ‘You *could/might have* done the dishes!’
   (English data modified from Huddleston 2002)

### 2.6 Counterfactual if necessary, but not necessarily counterfactual

As advertised, we are aiming at an analysis which takes the *conditionnel* to be a modal in its own right. Our starting point is Kratzer’s (1981, seq) analysis of *would* with an ‘empty’ modal base (the set of all possible worlds) and ‘totally realistic’ ordering source (the set of all worlds consistent with what is the case). It is this modal, in Kratzer’s analysis and the one developed here which gives us the worlds of evaluation for an embedded modal, if any.5

This is perhaps a good point at which to stress that purpose of this section is not been to show that all instances of modals with the *conditionnel* are counterfactual, i.e.

5 For example, in (i) *have to* is evaluated only with respect to worlds in which mom is home.

(i) If mom were home, we would have to go to bed at 8.
that the modal force of the embedded modal never holds in the actual world. Rather, the worlds of evaluation are possibly, but not necessarily, counterfactual. We’ve known since at least Anderson (1951) that morphologically “counterfactual” conditionals are not strictly counterfactual in the sense that the prejacent is false. In (19), for instance, the prejacent of would is explicitly asserted to hold in the actual world.

(19) If Jones had taken arsenic, he would be showing just exactly those symptoms he does in fact show. (Anderson 1951)

All possible worlds (modulo implicit or explicit restriction) are ordered according to their similarity to the evaluation world. Although an implicature of nonactuality may arise by competition of would p and its nonmodal counterpart p (a Gricean maxim of informativeness would militate towards simple p if the speaker is in a position to know that p is true), nothing in the semantics of would asserts nonactuality.

In summary, the point of this section has been to consider the use of the conditionnel with a number of different modals and to observe a kind of conspiracy in the data: the conditionnel allows (although does not require) another modal to quantify over worlds which are counterfactual.

3. Modal Specific Indefinites
3.1 Distinguishing properties

In a review of French and other languages in which the meaning of ‘should’ is derived from a necessity modal and counterfactual morphology, von Fintel and Iatridou (2008) rightly observe that English ought to/should does not mean the same as would have to. The authors take this as evidence that ought to/should is not a necessity modal embedded under a counterfactual modal. However, we’ve now considered evidence suggesting that it is. What we require, then, is an account of this meaning difference. Let’s begin by considering some distinguishing properties of what I will label the would-have-to type and should-type interpretations (cf. von Fintel & Iatridou’s “transparent” and “opaque” interpretations, respectively).

Perhaps the most salient difference is felicity in out-of-the-blue contexts. Should-type readings can be used in this way; would have to-type readings cannot. Suppose you are at some social function where most people are strangers. You find yourself standing by a man you don’t know. (20a) is a natural opener; (20b) is decidedly odd.

(20) Bonsoir,monsieur. Je **devrais** me presenter.
   a. ‘Good evening, sir. I **should** introduce myself.
   b. ‘Good evening, sir. I **would have to** introduce myself.

The would have to reading is only appropriate if some remote/counterfactual worlds have been evoked. In (21) this is achieved via negation.
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(21) Je suis heureux qu'on n’est pas dans une classe. Je 
-devrais- me presenter.
‘I’m glad we’re not in some class. I would have to introduce myself.’

Not only do possibly counterfactual worlds have to be evoked for the would have to reading, they must be available to all speech participants. Or at least a cooperative speaker must expect that such worlds are available to the listener (i.e. they are in the common ground). It is not sufficient for the reading (20b), for example, that either the speaker or the listener have possibly counterfactual worlds in mind. The speaker must believe that both she and the listener have access to them as well.

This discourse constraint on the should-type reading is not the same; the should-type allows a speaker-listener asymmetry. Suppose you have invited me to your dinner party, and that as I am about to leave at the end of the evening, I notice quite a significant mess in the kitchen. Given the circumstances, and the norms associated with being a polite and considerate guest, I utter one of the following.

(22) a. Je 
-dois-vous aider.
‘I have to/must help you.’
b. Je 
-devrais-vous aider
(i) ‘I ought to/should help you.’
(ii) ‘I would have to help you.’

(22a) is quite insistent: helping you is the only option and so help you, I will. In (22b) I allow for other options. It may be that I have such worlds in mind: perhaps you do not trust me with your china; perhaps I am due to pick up Aunt Hilda from the airport from her red-eye flight. Or, it may be that I am leaving it open for you to identify certain worlds: perhaps your dishes came from the caterer’s; perhaps you are really tired and just want me to leave so that you can go to bed.

Finally, both the would have to- and should-type readings are felicitous with an irrealis if-clause restrictor. In the English would have to reading, it seems the modal force of the embedded modal holds over all of the counterfactual worlds in the restriction; in the should reading, the modal force holds in some but not all of these counterfactual worlds. The English gloss of (23b) is inconsistent with the continuation but he would not have to: in all of the counterfactual police-officer worlds, he must arrest us. This same continuation is natural with gloss (23a): in some but not necessarily all of the counterfactual police-worlds does he have to arrest us.

(23) S’il y avait un policier ici, il 
-devrait-nous arrêter.
a. ‘If there were a police officer here, he should arrest us.’
b. ‘If there were a police officer here, he would have to arrest us.’

3.2 Quantification and discourse

Let us suppose, then, that the conditionnel on its would have to-type reading has universal force, on analogy with the universal determiner all and the conditionnel on its should-
type reading has existential force, like the determiner some. This analysis has a precedent in Klinedinst (2007), who argues that all weak/possibility modals such as may are plural distributive indefinites for worlds, i.e. analogous with some.

Universal quantifiers quantify over a contextually available domain, while existential quantifiers introduce entities into the domain. The conditionnel on its would have to-type reading requires an implicit or explicit restriction over worlds in the same way that all apples in (24a) requires either an implicit or explicit restriction over individuals; the conditionnel on its should-type reading introduces worlds into the discourse in the same way that some apples in (24b) can introduce individuals into the discourse. It is for this reason that both universal determiners and the conditionnel on its would have to-type reading are infelicitous in out-of-the-blue contexts.

(24) a. All #(the) apples are on the table.
    b. Some apples are on the table.

As discussed for example (22), we are not introducing just any set of worlds into the discourse, but certain worlds in particular. Here is the trick I want to propose. Suppose that the should-type reading of the conditionnel is indeed a plural indefinite, but in fact a specific plural indefinite. A nominal specific indefinite introduces a specific set of individuals into the discourse. Similarly, a specific indefinite for worlds introduces a specific set of worlds into the discourse.

Nominal specific indefinites also have the property of speaker-listener epistemic asymmetry. It has often been noted the speaker must have a specific referent in mind (cf. (25b)), but the specific indefinite is licit even if the listener cannot recover it, as in (25a).

(25) a. I’m going to buy some (particular) CDs. It’s a surprise, so I can’t tell you which.
    b. I’m going to buy some (particular) CDs: one of Brittany Spears, one of Feist, and one of John Coltrane.

This proposal has a precedent in work by Rullmann, Matthewson and Davis (2009) on St’at’imcets, a language in which the same modal is glossed with either universal or existential force, depending on context.6

(26) láñ-lhkacw ka áts’x-en ti kw támts-sw-a
     already-2SG.SUBJ DEON see-DIR DET husband-2SG.POSS-DET
     ‘You must/can/may see your husband now.’ (Rullmann et al. 2009: 12)

The authors argue that in fact all modals in the language are specific plural indefinites. On analogy with Kratzer’s (1998) analysis of nominal specific indefinites, a contextually determined choice-function h selects a subset of worlds in the domain (i.e. modal base). If the choice-function selects a proper subset of worlds, the interpretation is existential. If the choice-function selects an exhaustive subset of worlds (i.e. the identity function), the interpretation is universal.

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6 I am not making any claim about the expression of notional ‘should’ in St’at’imcets.
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The idea for the French *conditionnel* is that it varies in the same way. In addition to an empty modal base $f$ and totally realistic ordering source $g$, the *conditionnel* is evaluated relative to a contextually-determined choice-function $h$ (type $<st,st>$). In *would have to*-type interpretations, the choice-function selects an exhaustive subset; in the *should*-type interpretations, the choice-function selects a proper subset of worlds.

(27) \[ [[\text{COND } \phi]]^{f,g,h,w} \text{ is defined iff}\]
(i) modal base $f$ is “empty”
(ii) ordering source $g$ is “totally realistic”
(iii) $h$ is a choice-function
(iv) $h(g(f(w))) \subseteq f(w)$

If defined,
\[ [[\text{COND } \phi]]^{f,g,h,w} = 1 \text{ iff } \forall w' \in h(g(f(w))): [[\phi(w')]] = 1 \]

### 3.3 *Conditionnel Journalistique*

We have discussed two interpretations of the *conditionnel* with an embedded modal: a *would have to*-type interpretation with universal force and a *should*-type interpretation with the force of a specific indefinite. If the *conditionnel* indeed varies according to a choice-function $h$, we would expect it to vary in this way even in the absence of an embedded modal. As it turns out, there is reason to think that it does. Consider (28) which has not only a *would* reading, but also a reading something like (although we shall see not the same as) an evidential.

(28) Le président *arriverait* aujourd’hui.
   a. ‘The president *would* arrive/be arriving today.’
   b. ‘*Apparently* the president will arrive/is arriving today.’

I will refer to this second interpretation as the journalistic *conditionnel* (JC) because it is often (although not exclusively) found in news reports. The most salient feature of the JC is the non-commitment of the speaker to the truth of the prejacent. As Dendale (1993) shows, a continuation of non-commitment is appropriate with the JC in (29a); however, it is rejected following the variants with modal *devoir* (on its epistemic reading) (29b), and with the non-modal present (29c).

(29) a. JC
Les militaires de Buenos Aires *seraient* fort contrariés de la tournure qu’a prise l’affaire. Vraie ou fausse l’annonce de leur réaction est significative de…
   ‘Military personnel in Buenos Aires are (apparently) strongly against the turn of events. True or false, the announcement of their reaction shows that…’

b. *Devoir* ‘must’
Les militaires de Buenos Aires *doivent* être fort contrariés de la tournure qu’a prise l’affaire. #Vraie ou fausse, l’annonce de leur réaction est significative de...
   ‘Military personnel in Buenos Aires must be strongly against the turn of events. #True or false, the announcement of their reaction shows that ….’
c. Indicative
Les militaires de Buenos Aires sont fort contrariés de la tournure qu’a prise l’affaire. #Vraie ou fausse, l’annonce de leur réaction est significative de ...
‘Military personnel in Buenos Aires are strongly against the turn of events. #‘True or false, the announcement of their reaction shows that...’

Further, although the JC is often discussed as an evidential, unlike most evidentials, it is felicitous even when the prejacent is known to be false, as shown in the attested examples (30) and (31) from Dendale (my glosses).

(30) Ce matin la flotte britannique aurait quitté le port de Portsmouth. Le gouvernement britannique a déclenché ainsi le compte à rebours pour la guerre des Malouines.
‘This morning, the British fleet apparently left the port of Portsmouth. The British government thus launched the countdown to the War of the Falklands.’

(31) Je réfute fermement sa suggestion selon laquelle l’action gouvernementale serait influencée par des considérations électorales.
‘I strongly reject his/her suggestion, according to which government action is supposedly influenced by consideration of elections.’

In this respect, the JC behaves like other interpretations of the conditionnel. The prejacent may or may not hold in the actual world. In our terms, the JC has an empty modal base with a totally realistic ordering source.

The JC is also felicitous in out-of-the-blue contexts and is often used this way in news reports. Like the should-type interpretation of the conditionnel, the JC does not require an explicit or accommodated secondary criterion (e.g. if-clause), in this case a set of report/belief worlds.

(32) Q: Qu’est-ce qui se passe? ‘What’s happening?’
A: Le président arriverait.
‘The president is apparently arriving.’
# ‘The president would arrive.’

We will say that the choice function $h$ picks out a subset of worlds, namely those worlds in which the source of the report is reliable, from the empty modal base. In the case of ‘should’, the speaker can, but need not, make explicit the propositions which characterize the worlds. In the case of the JC, these worlds are distinguished by the source of the report. In (33), the source of the report is not explicit and the listener need accommodate only that there is some source or other. To make the source explicit, we use a selon or d’après ‘according to’ phrase, as in (34).

(33) Il pleuvrait.
(Apparently), it will rain.’

(34) D’après les prévisions météo, il pleuvrait (mais j’en doute).
‘According to the weather forecast, it will rain (but I doubt it).’
On Modal Interpretations of the French *Conditionnel*

4. Final Remarks

It remains to be seen whether an analysis similar to the one sketched here can be extended to languages other than French and English, or whether this is even desirable. Due to considerations of space, I must also leave unanswered several questions, including the (un)availability of scoping between the *conditionnel* and an embedded modal, what if any constraints exist for the contextual parameter (i.e. choice-function) \( h \) and a discussion of other flavors of modality. What should be clear, however, is that the *conditionnel* with other modals in French and preterite modals in English are, despite previous assumptions to the contrary, and *modulo* important discourse properties, best analysed as modals embedded under a counterfactual operator.

References

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