Realis and irrealis in Oceanic

Kilu von Prince, Ana Krajinović, Manfred Krifka, Michael Franjieh

September 2019, ALT, Pavia

Realis and irrealis

"Realis": referring to the actual past/present. Definitions of irrealis:

- · Cristofaro (2012): "unrealized states of affairs"
- Elliott (2000):
 - possible events;
 - conditionals;
 - · events qualified by modality;
 - directives;
 - (negation)
 - (habitual aspect)
 - (questions)

The debate

• The status of the notion of *irrealis* has been hotly debated since the criticism by Trask (1993), Bybee et al. (1994) and Bybee (1998) (also see de Haan 2012; Cristofaro 2012).

The debate

- The status of the notion of *irrealis* has been hotly debated since the criticism by Trask (1993), Bybee et al. (1994) and Bybee (1998) (also see de Haan 2012; Cristofaro 2012).
 - · The concept has been said to be ill-defined.

The debate

- The status of the notion of *irrealis* has been hotly debated since the criticism by Trask (1993), Bybee et al. (1994) and Bybee (1998) (also see de Haan 2012; Cristofaro 2012).
 - · The concept has been said to be ill-defined.
 - Its application to markers in different languages is too inconsistent to be meaningful.

The debate

- The status of the notion of *irrealis* has been hotly debated since the criticism by Trask (1993), Bybee et al. (1994) and Bybee (1998) (also see de Haan 2012; Cristofaro 2012).
 - The concept has been said to be ill-defined.
 - Its application to markers in different languages is too inconsistent to be meaningful.
- Oceanic linguists generally agree that the realis/irrealis distinction is meaningful and useful in the context of Oceanic languages (Bugenhagen, 1993; Roberts, 1990; Elliott, 2000; Barbour, 2011; Lichtenberk, 2016).

Our argument

• The domain of *irrealis* can further be split into modal-temporal subdomains—in some languages, the marker labelled as *irrealis* only refers to one of those two domains.

Our argument

- The domain of *irrealis* can further be split into modal-temporal subdomains—in some languages, the marker labelled as *irrealis* only refers to one of those two domains.
- Certain irrealis functions, such as imperatives, prohibitives and negative purpose clauses (*lest*) are sometimes expressed by more specialized expressions, which block the use of an irrealis marker.

Our argument

- The domain of *irrealis* can further be split into modal-temporal subdomains—in some languages, the marker labelled as *irrealis* only refers to one of those two domains.
- Certain irrealis functions, such as imperatives, prohibitives and negative purpose clauses (*lest*) are sometimes expressed by more specialized expressions, which block the use of an irrealis marker.
- The label *realis* is sometimes assigned to a form that is in fact neutral with respect to modality and tense.

• Part of the MelaTAMP project (DFG/German Research Foundation; with Ana Krajinović, Manfred Krifka, Annika Tjuka, Stephan Druskat and Lena Weißmann);

- Part of the MelaTAMP project (DFG/German Research Foundation; with Ana Krajinović, Manfred Krifka, Annika Tjuka, Stephan Druskat and Lena Weißmann);
- Detailed work on TAM markers in seven Oceanic languages based on corpus data from language documentation;

- Part of the MelaTAMP project (DFG/German Research Foundation; with Ana Krajinović, Manfred Krifka, Annika Tjuka, Stephan Druskat and Lena Weißmann);
- Detailed work on TAM markers in seven Oceanic languages based on corpus data from language documentation;
- Parallel corpora created from storyboards on six of these languages (cf von Prince et al., 2018)

- Part of the MelaTAMP project (DFG/German Research Foundation; with Ana Krajinović, Manfred Krifka, Annika Tjuka, Stephan Druskat and Lena Weißmann);
- Detailed work on TAM markers in seven Oceanic languages based on corpus data from language documentation;
- Parallel corpora created from storyboards on six of these languages (cf von Prince et al., 2018)
- Description-based comparative work on 60 Oceanic languages so far.

Functions of irrealis

Realis vs. zero

Conclusions

Subdomains of irrealis in Oceanic: North Ambrym "irrealis"



(1) Jon, bone fo ktu, lo mwen-amro teere nyer John time 2sc.IRR take then GEN.CL-2DL.POSS child PL e-ve lol.
POT-COP.IRR plenty
"If you marry John, you will have many children." (ib1-fortune-na.35)

compare von Prince et al. (2018)

Functions of irrealis

Realis vs. zero

Conclusions

Subdomains of irrealis in Oceanic: North Ambrym "counterfactual"



(2) ō to yene Adam lo mwena-mrō mane te 2sc CTF marry Adam then POSS.CL-2DL.POSS money NREC.PST lam.

big

"If you had married Adam, you two would have been rich." (at1-fortune-na.24)

Subdomains of irrealis in Oceanic: Sinaugoro "irrealis"

(3) Bere b-e-re daro-a nai [tu], kurabo ğitağita-na if R-3sG-IRR sweep=3sG time TOP floor appearance-3sG b-e-r-e namo.
R-3sG-IRR good
"If she had swept, the floor would have been clean." (Tauberschmidt, 1999, 81)

Interim

- The North Ambrym "irrealis" refers to the future;
- The Sinaugoro "irrealis" refers to the counterfactual past/present, like the North Ambrym "counterfactual".
- The "irrealis" markers of the two languages do not overlap in meaning.

Modelling irreality with branching time



- The realis/irrealis distinction is characterized by an asymmetry between the present/past vs. the future.
- This asymmetry can be modelled by a branching-time framework (Prior, 1957; Thomason, 1970).

The actual, the counterfactual, and the possible



von Prince (2019) shows how branching time can generate a three-way distinction between modal domains.

Modal-temporal distinctions



Figure: Combining the modal with the temporal dimension allows for more fine-grained distinctions

"Irrealis" and counterfactual in North Ambrym and Sinaugoro



Figure: The "irrealis" in Sinaugoro (red) and in North Ambrym (orange)

Functions of irrealis



Figure: Functions of irrealis markers inspired by Bugenhagen (1993)

Functional split of irrealis in Paamese

realis (zero-marked) distant future immediate future timitive prohibitive imperative

Table: TAM categories in Paamese, after Crowley (1982); a similar system is found in South-East Ambrym (Ridge, 2019).

Functional split of irrealis in Muyuw

Function	Marker
past	realis/zero
conditionals	irrealis
want	irrealis
wish	irrealis
ability	irrealis
obligation	irrealis
purpose	irrealis
timitive	irrealis
prohibitive	irrealis
imperative	zero

Table: TAM marking in Muyuw according to Bugenhagen (1993)

Interim

- Irrealis markers might be blocked from expressing certain functions by more specialized markers in the system.
- In the Oceanic context, this concerns in particular functions such as imperatives, prohibitives, timitives, as well as the immediate future.

"Realis" subject proclitics in Nafsan

	Realis	Irrealis	Perfect
1sg	a=	ka=	kai=
2sg	ku=	<i>p̃a=</i> [k͡pa]	kui=
3sg	i=	ke=	ki=
1dl (incl)	ta=	tak=	takai=
1dl (excl)	ra=	rak=	rakai=
2dl	ra=	rak=	rakai=
3dl	ra=	rak=	rakai=, rai=
1pl (incl)	tu=	tuk=	tu=, tui=, tukoi=
1pl (excl)	u=	ko=	ui=, koi=
2pl	u=	ko=	koi=
3pl	ru=	ruk=	rui=, rukui=

Table: Portmanteau subject proclitics in Nafsan based on Thieberger (2006)

The problem with Nafsan realis proclitics

(4) Ru=f to nigmam traus-i-ø, ko=fo
3PL=COND HAB 1PL.EXCL.BEN tell-TR-3SG.OBJ 1PL.EXCL.IRR=PSP.IRR tae, me gar i=tik.
know but 3PL 3SG=not
"If they had told it to us, we would know, but they didn't." (Thieberger, 2006:259)

Our proposal

- The "realis" set of Nafsan subject proclitics is in fact neutral with respect to TAM (Krajinović, 2018).
- The interpretation of utterances unmarked for TAM as referring to the actual past or present is a pragmatic default (Smith et al., 2007; Mucha, 2012; von Prince, 2018).
- The same analysis can be applied to languages such as Wogeo (cf. Exter, 2012)

Conclusions

- Realis and irrealis are meaningful categories in Oceanic languages;
- Crosslinguistic mismatches can largely be accounted for by the following factors:
 - TAM markers labeled as *irrealis* migh refer only to a modal-temporal subdomain of the irrealis domain.
 - Irrealis markers might be blocked from expressing certain functions by more specialized markers in the system.
 - Markers labeled as *realis* might in fact be neutral with respect to TAM and therefore occur in non-realis contexts.

Binary realis/irrealis systems



Non-overlapping modal-temporal domains

de Haan (2012): the "irrealis" in Limbu has no overlap with the "irrealis" in Hualapai.

- (5) Limbu (Tibeto-Burman): counterfactual past/present yaŋ kɔtt-u-ŋ-gɔ:ni iŋ-u-ŋ-ba.
 money have-3P-1SG.AG-IRR buy-3P-1SG.AG-IPF "If only I had the money, I would buy it."
- Hualapai (Pai, Yuman): immediate future olo-h-ch ha: thi:-hi-k-wi
 horse-DEM-SUB water 3/3.drink-IRR-SS-AUX/be
 "The horse is going to drink the water."

"Irrealis" in Limbu and Hualapai



Figure: Irrealis in Limbu (left): counterfactual past/present; irrealis in Hualapai (right): immediate future.

References I

Barbour, Julie. 2011. Exploring mood in Neverver. Oceanic Linguistics 50(1). 198-220.

- Bugenhagen, Robert D. 1993. The semantics of irrealis in the Austronesian languages of Papua New Guinea. In Ger P. Reesink (ed.), *Topics in descriptive Austronesian linguistics.*, 1–39. Leiden: Rijksuniversiteit Leiden.
- Bybee, J. L, Revere Perkins & W. Pagliuca. 1994. *The evolution of grammar: Tense, aspect, and modality in the languages of the world.* The University of Chicago Press.
- Bybee, Joan L. 1998. "Irrealis" as a grammatical category. *Anthropological Linguistics* 40(2). 257–271.
- Cristofaro, Sonia. 2012. Descriptive notions vs. grammatical categories: Unrealized states of affairs and 'irrealis'. *Language Sciences* 34(2). 131 146. doi:https://doi.org/10.1016/j.langsci.2011.08.001. http:

//www.sciencedirect.com/science/article/pii/S0388000111001239.
Papers selected from the 'What do languages encode when they encode reality
status?' workshop at the 41st Annual Meeting of the Societas Linguistica
Europaea, Forlì, Italy, 17-20 September 2008.

Crowley, Terry. 1982. *The Paamese language of Vanuatu*. The Australian National University: Pacific Linguistics.

References II

Elliott, Jennifer. 2000. Realis and irrealis: Forms and concepts of the grammaticalisation of reality. *Linguistic Typology* 4. 55–90.

- Exter, Mats. 2012. 'realis' and 'irrealis' in wogeo: A valid category. Language Documentation & Conservation Special Publication 5. 174–190.
- de Haan, Ferdinand. 2012. Irrealis: fact or fiction? Language Sciences 34(2). 107 130. doi:https://doi.org/10.1016/j.langsci.2011.06.016. http: //www.sciencedirect.com/science/article/pii/S0388000111001185. Papers selected from the 'What do languages encode when they encode reality status?' workshop at the 41st Annual Meeting of the Societas Linguistica Europaea, Forlì, Italy, 17-20 September 2008.
- Krajinović, Ana. 2018. Pragmatically-derived meaning of realis/irrealis in three Oceanic languages. Talk given at the Chronos 13 conference, University of Neuchâtel.
- Lichtenberk, Frantisek. 2016. Modality and mood in Oceanic. In Jan Nuyts & Johan van der Auwera (eds.), *The Oxford Handbook of Mood and Modality*, chap. 14, 330–361. Oxford: Oxford University Press.
- Mucha, Anne. 2012. Temporal reference in a genuinely tenseless language: the case of Hausa. *Proceedings of SALT* 22. 188–207.

References III

von Prince, Kilu. 2019. Counterfactuality and past. Linguistics and Philosophy doi:10.1007/s10988-019-09259-6. https://doi.org/10.1007/s10988-019-09259-6.

- von Prince, Kilu. 2018. Paradigm-induced implicatures in TAM-expression: A view from the Daakaka distal. In Robert Truswell, Chris Cummins, Caroline Heycock, Brian Rabern & Hannah Rohde (eds.), Proceedings of Sinn und Bedeutung 21. https://semanticsarchive.net/Archive/DRjNjViN/vonPrince.pdf, 969-984. Edinburgh.
- von Prince, Kilu, Ana Krajinović, Manfred Krifka, Valérie Guérin & Michael Franjieh. 2018. Mapping irreality: Storyboards for eliciting TAM contexts. In Anja Gattnar, Robin Hörnig & Melanie Störzer (eds.), *Proceedings of linguistic evidence 2018*, .
- Prior, Arthur Norman. 1957. Time and modality. Oxford University Press.
- Ridge, Eleanor. 2019. Variation in Vatlongos verbal morphosyntax: speaker communities in Southeast Ambrym and Mele Maat. London: SOAS dissertation.
- Roberts, John R. 1990. Modality in Amele and other Papuan languages. *Journal of Linguistics* 16. 363–401.

References IV

- Smith, Carlota, Ellavina Perkins & Theodore Fernald. 2007. Time in Navajo: Direct and indirect interpretation. *International Journal of American Linguistics* 73(1). 40–71.
- Tauberschmidt, Gerhard. 1999. *A grammar of Sinaugoro*. The Australian National University: Pacific Linguistics.
- Thieberger, Nick. 2006. A grammar of South Efate: an Oceanic language of Vanuatu (Oceanic Linguistics Special Publications 33). Honolulu: University of Hawai'i Press.
- Thomason, Richmond H. 1970. Indeterminist time and truth-value gaps. *Theoria* 36(3). 264–281.
- Trask, Robert Lawrence. 1993. *A dictionary of grammatical terms in linguistics*. London, New York: Routledge.