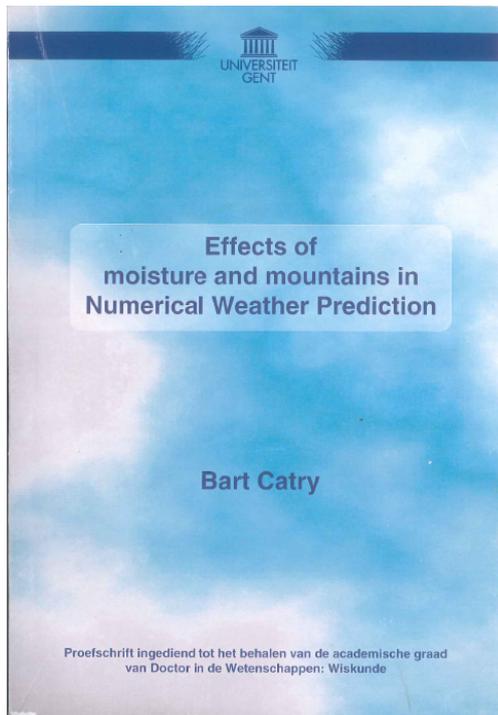


Professor Geleyn

TRIBUTE DAY FOR JEAN-FRANÇOIS GELEYN
TOULOUSE, 6 FEBRUARY 2020

A dinner with Jean-François can have serious consequences



The postgraduate program of Ghent university was created on this table!

Postgraduate studies Weather and Climate Modeling, Ghent university (UGent)

- Teachers: international experts (Geleyn, Gustafsson) and scientists from the RMI.
- 1 year, 10 courses, ranging from general meteorology to atmospheric modeling, predictability and climatology.
- Includes research projects with topics taken from the science plan of the ALADIN consortium.
- This created a small meteorology research group at the department of Physics and astronomy, led by RMI staff (this is considered as win-win by both parties!)
- Currently 4 PhDs were defended in the context of this program.
- Many young scientists of the RMI ALADIN group were trained in this program.

Postgraduate Studies in Weather and Climate Modeling

Faculty of Sciences

Academic Year 2019-2020

- legend
- hard copy v2
- course schedule 1st semester
- course schedule 2nd semester

Complete programme (33 credits) version 2

Language of instruction English

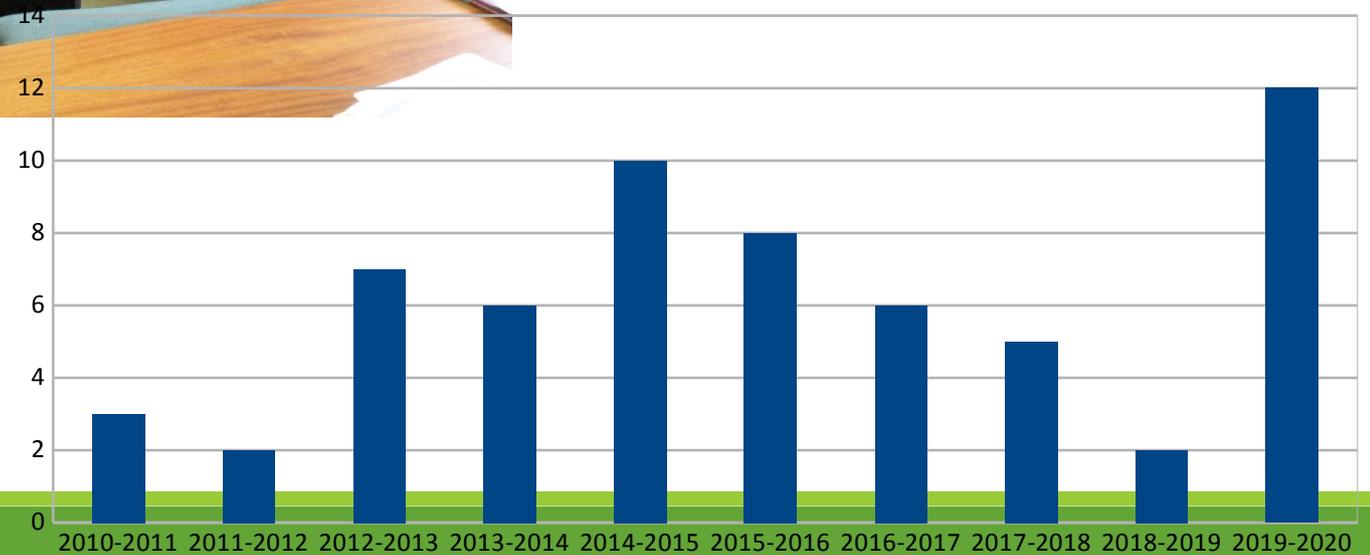
1 - General Courses

No.	Course	Ref	Semester	Mt1	Mt2	Dept.	Instructor	Contact	Study	Crdt
1	General Meteorology		1	1		WE05	Pascal Mailier	22.5	110	4
2	Dynamic Meteorology		1	1		WE05	Steven Caluwaerts	22.5	110	4
3	Physical Meteorology		1	1		WE05	Hugo De Backer	15	90	3
4	Numerical Techniques		1	1		WE05	Daan Degrauwe	22.5	90	3
5	Data Assimilation		2	1		WE05	Dominique Fonteyn	22.5	90	3
6	Atmospheric Modeling		2	1		WE05	Piet Termonia	60	120	4
7	Predictability		2	1		WE05	Alex Deckmyn	22.5	90	3
8	Air Pollution and Chemical Transport Models (CTM)		2	1		WE05	Clemens Mensink	22.5	90	3
9	Remote Sensing		2	1		WE05	Andy Deldoo	22.5	90	3
10	Climatology		1	1		WE05	Piet Termonia	22.5	90	3

... but very rewarding in the end!



graduated students WCM



The students projects with Jean-François can have serious consequences!

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741

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Q. J. R. Meteorol. Soc. 142: 304–326, January 2016 A DOI:10.1002/qj.2653

RMetS



Single interval shortwave radiation scheme with parameterized optical saturation and spectral overlaps

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^fDepartment of Biology, Centre of Excellence PLECO, University of Antwerp, Belgium

^gDepartment of Astronomy, Physics of the Earth and Meteorology, Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovakia

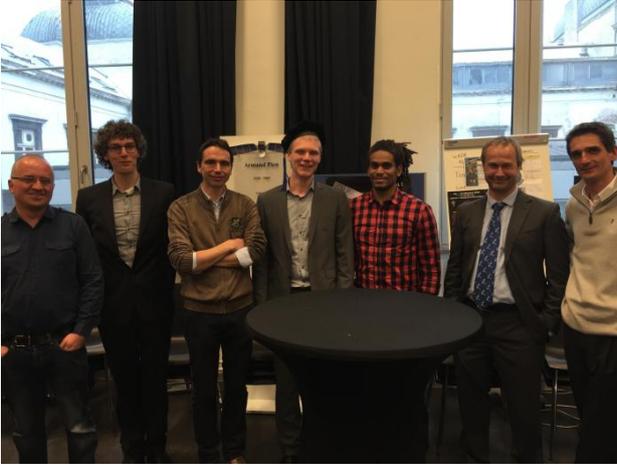
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E-mail: jan.masek@chmi.cz

+

... the consequences continue

...



The CORDEX.be project

COMbining Regional climate Downscaling EXpertise in Belgium



P. Termonia,

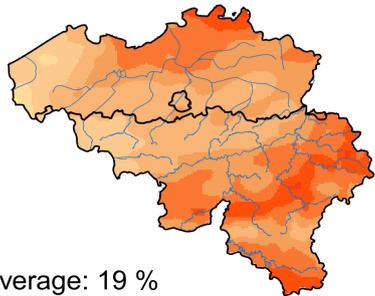
Climate adaptation conference 23 nov 2017

www.euro-cordex.be

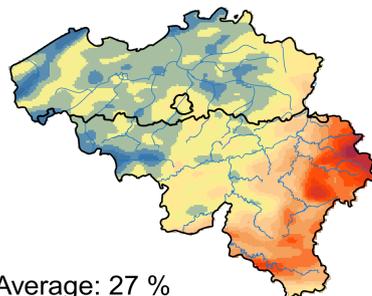
We all agree that the occurrence of extreme precipitation will increase

Average winter precipitation change following RCP8.5 period 2070-2100

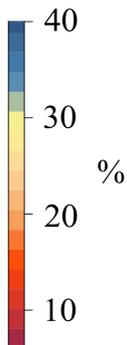
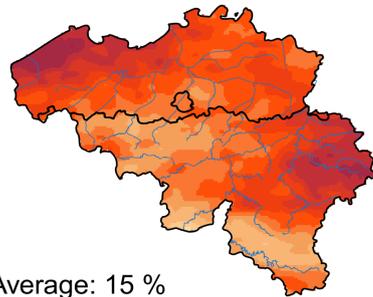
ALARO-0 model



COSMO-CLM KUL model

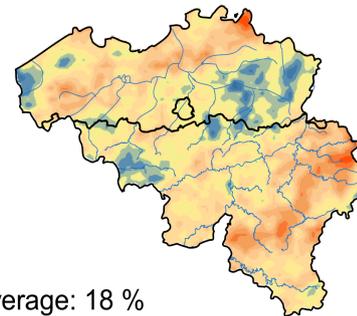


COSMO-CLM UCL model

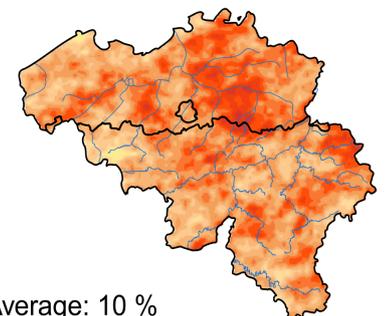


Average change of extreme precipitation following RCP8.5 period 2070-2100

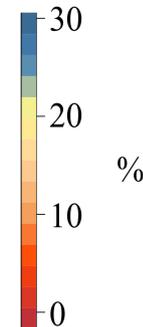
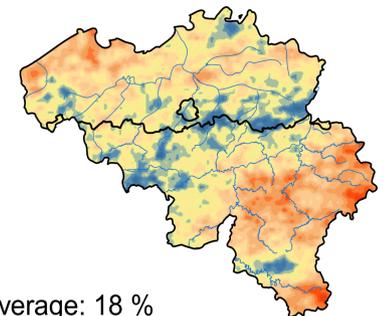
ALARO-0 model



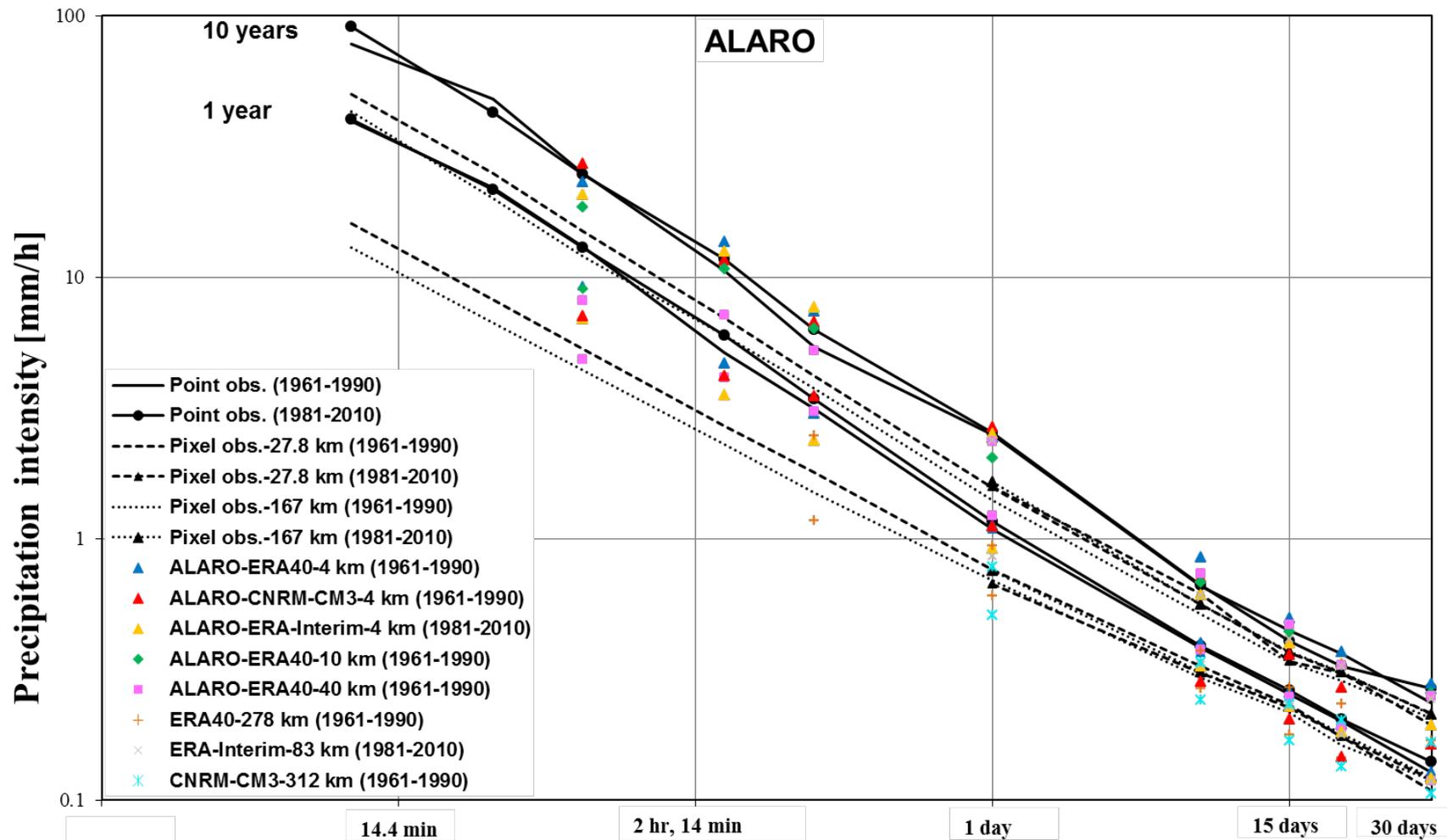
COSMO-CLM KUL model



COSMO-CLM UCL model



ALARO adds value at the convection permitting scale in climate runs in Belgium!



Mijnheer Geleyn



20 March 2014