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## NEWSLETTER CIRCLE 02 - SEPTEMBER 2021

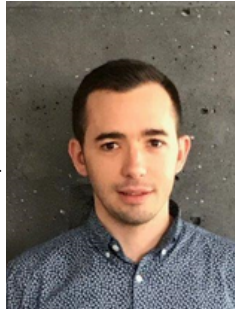


Crédits photos : @Pixabay

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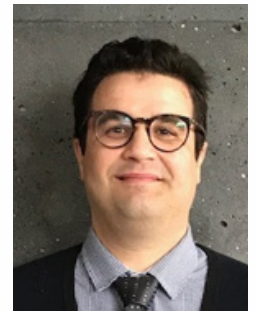
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# INTRODUCTION

Welcome to the second newsletter of the CIRCLE project (Concrete solution dRaining for the Climate and Environment) which is published every semester. In this edition, we will make an assessment of the IPCC report, recently published then we will focus on the latest news on floods in Europe and national measures implemented to warn populations.

We will conclude with some general information to keep in mind.

## In this second edition of the CIRCLE newsletter...

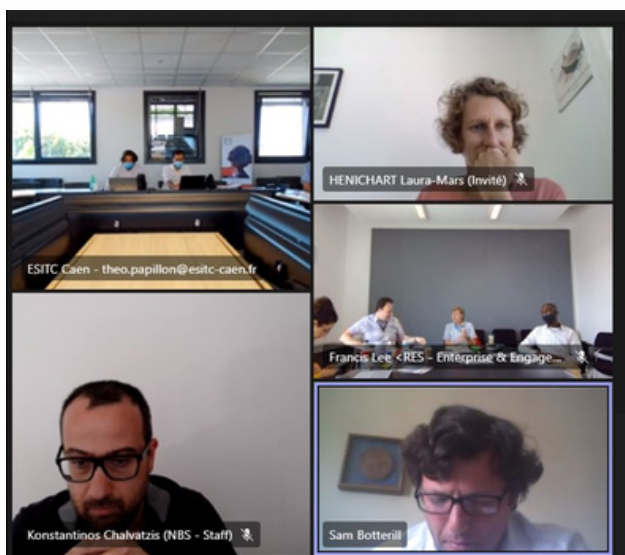
- **IPCC ASSESSMENT REPORT OF 2021** **04**
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Because of sanitary conditions, the consortium of the CIRCLE project only met by video conference. We hope that next meetings will be in person!

During the last and second COPIL who was held on June 15, Noël FLIPO from the Communauté d'Agglomération des 2 Baies en Montreuillois (CA2BM) could join the ESITC Caen team: it was the first meeting in person and the COPIL was full of advances.

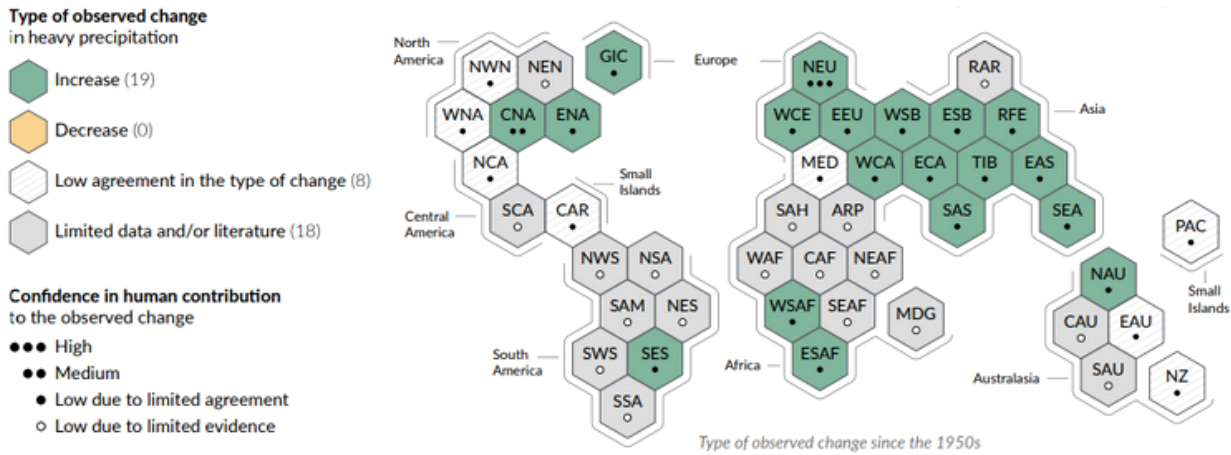
The CIRCLE project is financed by the European Regional Development Fund (ERDF) through the INTERREG F(M)E program of up to 2.6 million of euros during a 3-year-period.

Enjoy your reading!



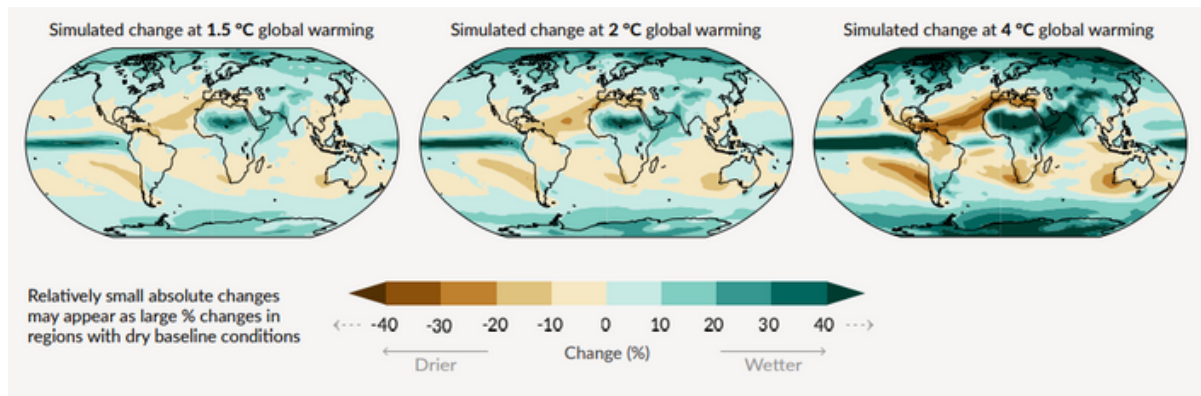
# IPCC ASSESSMENT REPORT OF 2021

The Intergovernmental Panel on Climate Change (IPCC) has concluded in its report published on August 9th, 2021 that climate is changing in the whole world and faster than expected. Even by limiting global warming, natural disasters should be more and more important.



Synthesis of the evaluation of the evolution observed of high precipitations and the condensation of the human contribution to the changes which were noticed in the world's regions.  
 Source : The first part of the Sixth Assessment Report of the IPCC (2021) - <https://www.ipcc.ch/report/ar6/wg1/#FullReport>.

Various scenarios are proposed regarding the evolution of the precipitations depending on the intensity of the global warming. The main hypothesis deals with a global warming of 1.5°C in 2040.  
 (Source : IPCC report of 2018\_Global warming of 1.5°C).



Variation of average annual rainfall (%) in comparison to 1850-1900 in the world. It goes from the most likely scenario of +1.5°C to the most unfavourable which is +4°C.  
 Source : The first part of the Sixth Assessment Report of the IPCC (2021) - <https://www.ipcc.ch/report/ar6/wg1/#FullReport>.

Global warming is now current with consequences which are “irreversible over hundreds to thousands of years” is alerting the IPCC. According to the previsions, the sea level could reach one more meter between now and 2100 and two meters in 2300, but the incertitude concerning calottes makes possible the hypothesis of a rise of two meters in 2100.

# LATEST NEWS ON FLOODS

This year and especially this summer, there were extreme meteorologic phenomena.

We can think about the floods happened in July 2021 which particularly affected the West of Europe including Germany, Belgium, Luxembourg, the Netherlands and France.

In Europe, it has been one of the most terrible natural disasters since the beginning of the XXth century. It provoked more than 200 victims and important damage on infrastructures.



Picture illustrating consequences of the global warming in urban area during the extreme precipitations period which lasted from the 12th of July to the 15th. (Source : <https://www.worldweatherattribution.org/>).

We can also keep in mind that on July 26th, 2021, London and the Southeast of England have been impacted by torrential rainfalls. It happened again on August in Scotland, the North of England and Northern Ireland.

... And it amplified in the whole world.

Rivers frequently overflow their banks to invade urban areas in which grounds are more and more waterproofed. As well as the action to fight against global warming by limiting greenhouse gases, it also includes to convert differently the landscape in order to reduce financial and human impacts of the damage caused by floods.



Picture illustrating consequences of global warming in urban area in Valkenburg, Netherlands, on July 15th, 2021. (Source : [https://commons.wikimedia.org/wiki/File:Geul-overstroming\\_juli\\_2021\\_\(55\).jpg](https://commons.wikimedia.org/wiki/File:Geul-overstroming_juli_2021_(55).jpg)).

# ALERT DISPOSITIVES



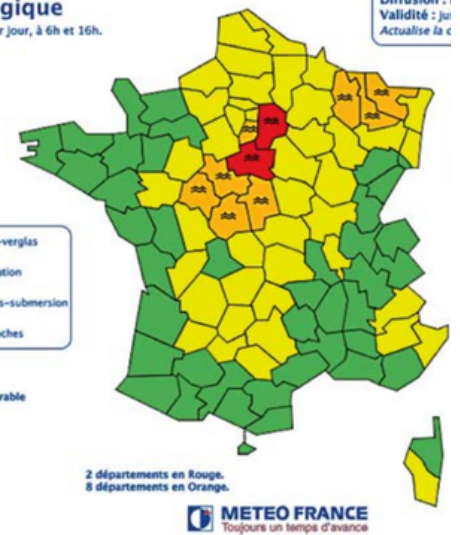
In France, “Vigicrues” is a dispositive for flood warning which was created to alert populations when local flood risks are detected. The service MétéoFrance gives out a meteorological vigilances bulletin by grading risks of exposure of each French department.

For further information:  
<https://www.vigicrues.gouv.fr/>

## Vigilance météorologique

La carte est actualisée au moins 2 fois par jour, à 6h et 16h.

- Une vigilance absolue s'impose** des phénomènes dangereux d'intensité exceptionnelle sont prévus...
  - Soyez très vigilant**, des phénomènes dangereux sont prévus ...
  - Soyez attentif** si vous pratiquez des activités sensibles au risque météorologique ...
  - Pas de vigilance particulière.**
- |                  |                   |
|------------------|-------------------|
| Vent violent     | Neige-verglas     |
| Pluie-inondation | Inondation        |
| Orages           | Vagues-submersion |
| Canicule         | Avalanches        |
- Les vigilances pluie-inondation et inondation sont élaborées avec le réseau Vigicrues du Ministère du Développement durable



(Source : Météo France)

## GOV.UK Sign up for flood warnings

In England, the British government settled a webpage in order to alert people in case of risks of floods, it is available on their official website.

It is easy to use, inhabitants must put their address and an email or a phone number. If there is a risk, they will receive an alert (by email, message or a call).

<https://www.fws.environment-agency.gov.uk/app/olr/register>

# TO KEEP IN MIND

## Save the date...

- Implementation in the pilot site of England: May 2022
- Implementation in the pilot site of the Central Europe Route (EuroVelo 4): June 2022
- **Next Newsletter in March 2022 for more details!**



**New!**

## Follow us...

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## ... and subscribe!

If you want to subscribe to our next newsletters, you can do it by clicking on this [link](#).

