

Designing of climate change education in the CLIMCOMP-project

Natalia Korhonen¹, Hilppa Gregow¹, Hanna Lappalainen², Katja Lauri², Jari Lavonen³, Risto Makkonen¹, Joonas Merikanto¹, Antti Mäkelä¹, Magdalena Okuljar², Laura Riuttanen², Taina Ruuskanen², Petri Räisänen¹, Marianne Santala², Joula Siponen², Janina Taurinen², Andrea Vajda¹, Salla Veijonaho³, Veli-Matti Vesterinen³, Ilona Ylivinkka², and Mikko Äijälä²

¹Finnish Meteorological Institute ²Institute for Atmospheric and Earth System Research of the University of Helsinki ³Department of Educational Sciences at the University of Helsinki

16.6.2022 NMM32 meeting in Helsinki









UNIVERSITY OF HELSINKI







Contents

Climate University courses



 New Climate University course "Living with changing climate"



ClimateGuide.fi

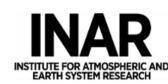






.MATIETEEN LAITOS ETEOROLOGISKA INSTITUTET INNISH METEOROLOGICAL INSTITUTE





Climate university courses https://climateuniversity.fi/



- Climate University provides free online courses for universities and everyone who wants to make the sustainability transition in the society real.
- The courses are made in multidisciplinary collaboration of several universities in Finland with the funding from the Ministry of Education and Culture, Finnish Innovation Fund Sitra and the participating universities.



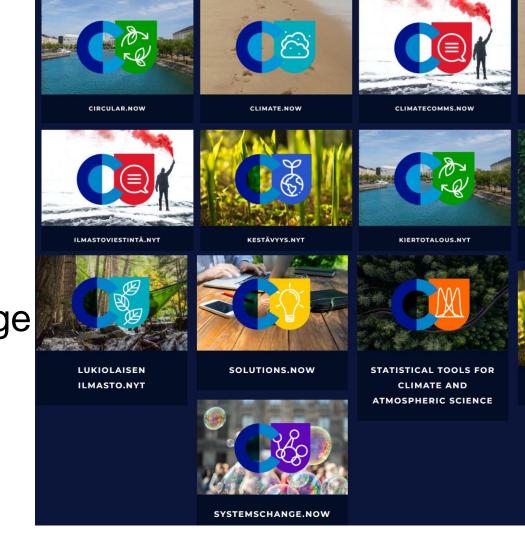
CLIMATE

UNIVERSITY

Climate University Courses

- Ilmasto.nyt / Climate.now
- Kestävyys.nyt / Sustainable.now
- Kiertotalous.nyt / Circular.now
- SystemsChange.now
- Solutions.now
- ClimateComms.now
- Leadership for sustainable change
- Statistical tools for climate and atmospheric science
- Lukiolaisen Ilmasto.nyt







ILMASTO.NY

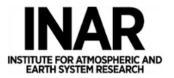
SUSTAINABLE.NOW

- The "Learning of the competencies of effective climate change mitigation and adaptation in the education system" (ClimComp)project is funded by the Academy of Finland and carried out by the Institute for Atmospheric and Earth System Research of the University of Helsinki, Department of Educational Sciences at the University of Helsinki and the Finnish Meteorological Institute.
- As a part of the ClimComp-project a new academic course "Living with changing climate" is co-designed. This course introduces and teaches how to use, e.g., open-source weather and climate data, weather forecasts, seasonal outlooks and climate projections in decision making.











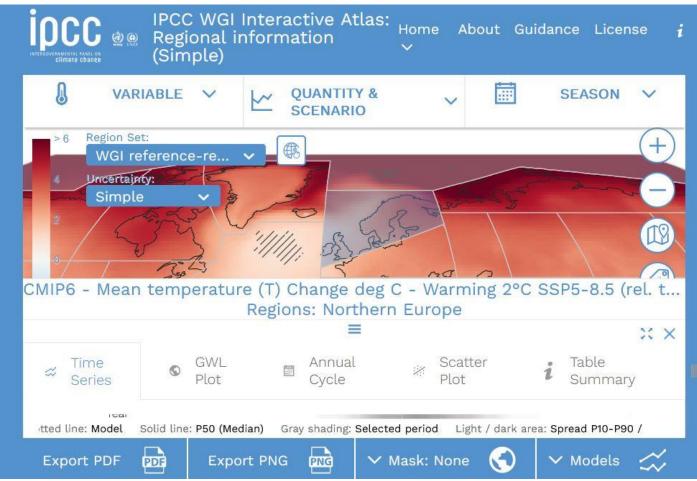




Find open weather and climate data

Example:

IPCC interactive Atlas https://interactive-atlas.ipcc.ch/





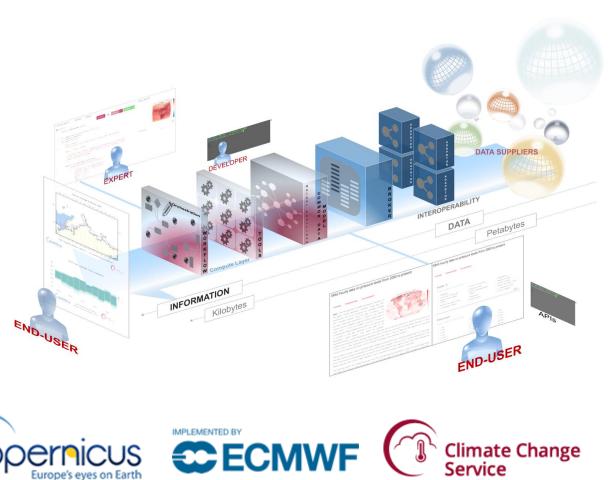
Applications

Example: Climate Data Store (CDS) Toolbox

- Allows users to develop applications that make use of the data content of the CDS
- The toolbox allows post-processing of data (calculation, plotting, selection, downloading)
- The user of the Toolbox can write python software to access, post-process and export climate data made available through the CDS.







Study visit

Investigates

- how climate data is used in real organizations and businesses
- what kind of needs for weather and climate data arise from organizational decisionmaking, culture, operations and/or its stakeholders





Piloting

- In Spring 2023
- Recommended prerequisites: Climate.now and Statistical tools for climate and atmospheric science
- Piloters will get full 5 ECTS-credits
- Interested in piloting: contact Natalia.Korhonen@fmi.fi

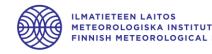


Climateguide.fi \equiv Q What are you searching for? FI SV **Climate change information through a** single address **Climate change in Finland** Shortcuts -> What is climate change? **Climate change information for sectors**

Climateguide.fi provides climate change information in collaboration with FMI, Finnish Environment Institute, Natural Resources Institute Finland, The Ministry of Transport and Communications, The Ministry of Agriculture and Forestry, Ministry of Economic Affairs and Employment of Finland, Ministry of Environment, Aalto University, University of Helsinki, University of Turku, and VTT Technical Research Centre of Finland.

Climateguide.fi

has been updated and additions have been developed

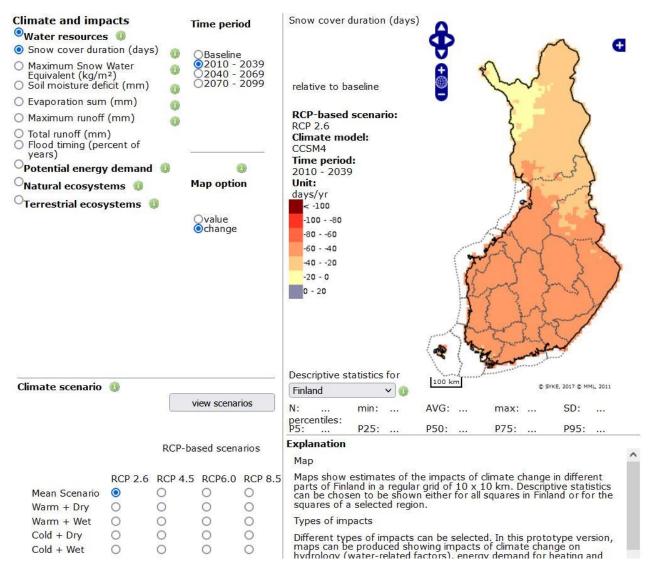






Mapping tool:

Impact scenarios of climate change



http://www.iav-mapping.net/shorelark/?locale=en#SykeDataPlace:vaikutukset



ILMATIETEEN LAITOS METEOROLOGISKA INSTITUTET FINNISH METEOROLOGICAL INSTITUTE

Thank you for your attention!

Questions or comments?

Contact: Natalia.Korhonen@fmi.fi



ATIETEEN LAITOS TEOROLOGISKA INSTITUTET NISH METEOROLOGICAL INSTITUTE

12