

**HORIZON
2020**

Using causal discovery algorithms to boost subseasonal to seasonal forecast skill of Mediterranean rainfall

Fact Sheet

Project Information

CausalBoost

Grant agreement ID: 841902

[Project website](#) 

DOI

[10.3030/841902](https://doi.org/10.3030/841902) 

Project closed

EC signature date

12 April 2019

Start date

1 March 2020

End date

28 February 2022

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 212 933,76

EU contribution

€ 212 933,76

Coordinated by

THE UNIVERSITY OF READING

 United Kingdom

Project description

Algorithms for improved rainfall predictions

The Mediterranean region (MED) is a hot-spot of anthropogenic climate change. To assure effective near-term planning, decisionmakers in weather-dependent sectors depend on skilful forecasts of precipitation on sub-seasonal to seasonal (S2S) timescales. However, some fundamental challenges prevent reliable predictions beyond approximately 10 days. The EU-funded CausalBoost project will apply an

innovative method to improve S2S forecasts of MED rainfall. The approach relies on a combination of innovative causal discovery algorithms from machine learning with operational forecast models. The project will identify central S2S drivers of MED rainfall, systematically assess them with prediction models and produce process-based bias corrections.

Fields of science (EuroSciVoc)

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > **[agriculture](#)**

[natural sciences](#) > [earth and related environmental sciences](#) > [atmospheric sciences](#) > [climatology](#) > **[climatic changes](#)**



Programme(s)

[H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions](#)

MAIN PROGRAMME

[H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility](#)

Topic(s)

[MSCA-IF-2018 - Individual Fellowships](#)

Call for proposal

[H2020-MSCA-IF-2018](#)

[See other projects for this call](#)

Funding Scheme

[MSCA-IF-EF-ST - Standard EF](#)

Coordinator



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Total cost

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Address

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RG6 6AH Reading

 **United Kingdom** 

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Berkshire

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

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Permalink: <https://cordis.europa.eu/project/id/841902>

European Union, 2025