ECMWF's

SUMMER OF
Weather Code

Julia Wagemann, Claudia Vitolo and Anna Ghelli

Using ECMWF's Forecasts meeting 2018 | Reading, 7 June 2018

ECMWF

SUMMER OF
Weather Code

TEAM UP WITH METEOROLOGY EXPERTS
TO DEVELOP INNOVATIVE WEATHER-RELATED SOFTWARE

FROM JAN
22ND
2018

5 SELECTED PROJECTS
EACH RECEIVES A £5,000 GRANT

TO SEP
15TH
2018

#ESoWC

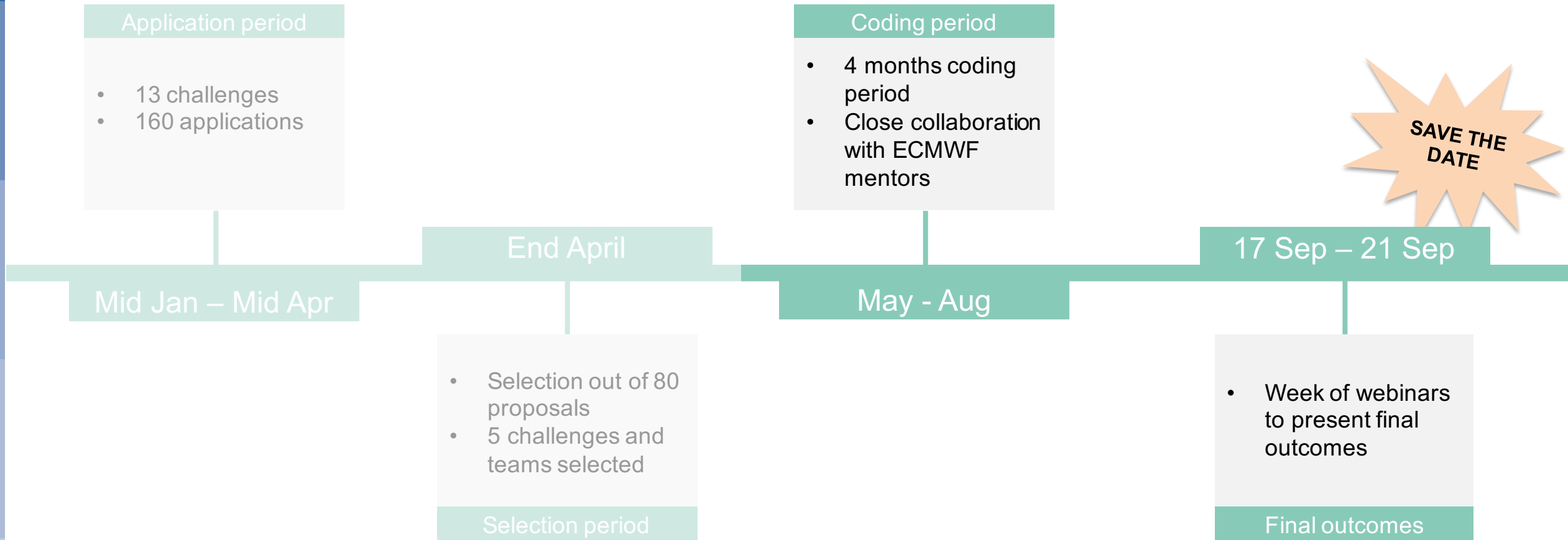4 months   5 projects   5000 £

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Weather Code

TEAM UP WITH METEOROLOGY EXPERTS
TO DEVELOP INNOVATIVE WEATHER–RELATED SOFTWARE

- Bring **new skills and ideas** to ECMWF

- **Exploration of new tools** and technologies

- **Improvement** of existing tools

- Development of tools where there is **usually no time / skills for**

Timeline

Application period

- 13 challenges
- 160 applications

Coding period

- 4 months coding period
- Close collaboration with ECMWF mentors

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End April

17 Sep – 21 Sep

Mid Jan – Mid Apr

May - Aug

- Selection out of 80 proposals
- 5 challenges and teams selected

Selection period

- Week of webinars to present final outcomes

Final outcomes

ECMWF

5 challenges

1 Enhanced GIS area selection widget

2 Innovative Visualisation

3 Web Crawler for hydrological data
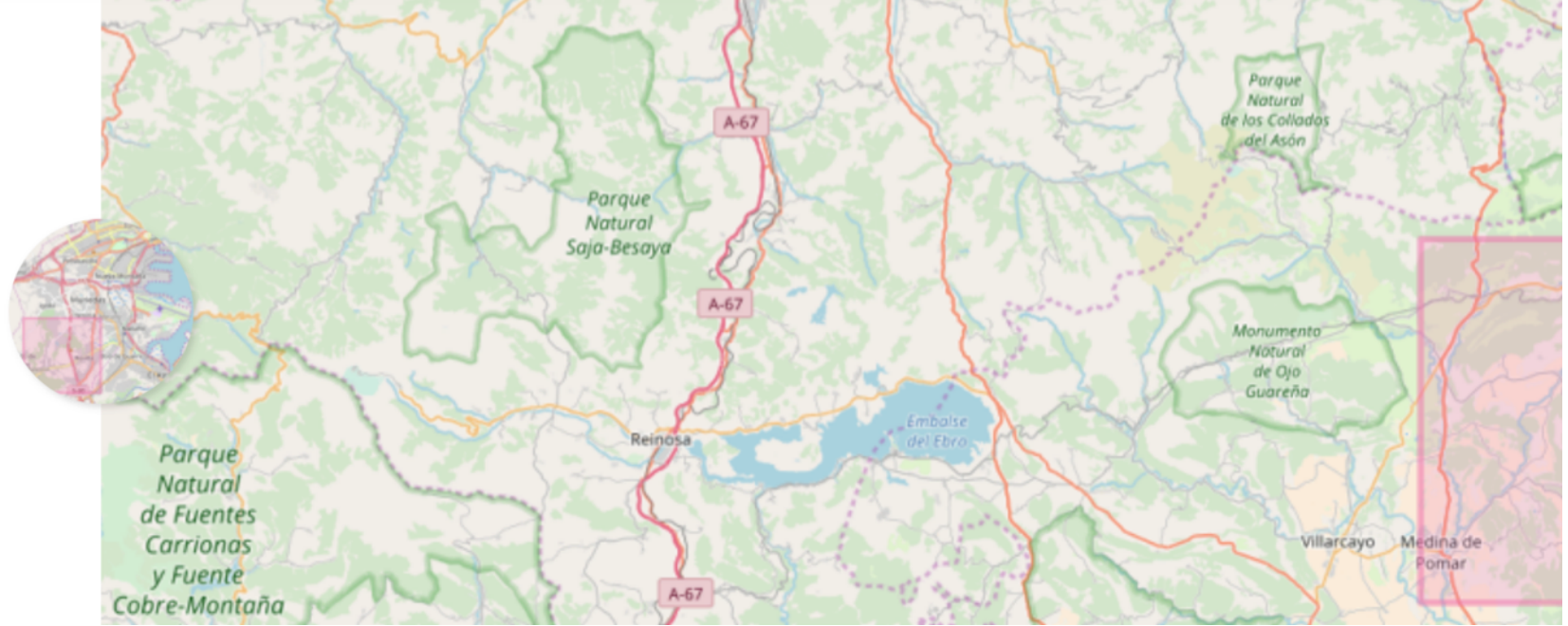
4 NetCDF managed as filesystem

5 Migration of calibration software to Python and development of its GUI

Enhanced GIS area selection...

Provide a widget to select and display areas on a map and that can be utilised across existing web...

Fernando Martin Marlasca
Daniel San Martin
Markel Garcia

WEB CRAWLER FOR HYDRO...

Development of a tool to search the web systematically, identifying data sources for observed envi...

Norwin Roosen
Matthes Rieke
Simon Jirka

NetCDF filesystem

Represent the structure of a NetCDF dataset as a virtual filesystem. Edit NetCDF structure with g...

Dr. Declan A. Valters

Innovative Visualisation

Communicate Weather

Helena Schmidt
Rebecca Husemann

MIGRATION TO PYTHON AND GUI OF EXISTING CALIBRATION SOFTWARE

Translate calibration software code into a widely-used free scripting language (e.g Python) and create its GUI to increase users' uptake.

Anirudha Bose

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Thank you!

More information:
http://esowc.ecmwf.int
http://esowc.hackathon.com

17 – 21 Sep 2018
Week of webinars

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