Copernicus Climate Change Service (C3S)

Fabio Venuti, Jean-Noël Thépaut

Fabio.Venuti@ecmwf.int, Jean-Noel.Thepaut@ecmwf.int

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GEO SYMPOSIUM 2019 #EO4IMPACT19
Unique Value provided by the Copernicus Climate Change Service (C3S)

Freely available information about past, current and future climate in Europe and worldwide:

- supports scientists, policy makers and businesses;
- supports the United Nations Sustainable Development Goals;
- responds to the Global Climate Observing System requirements;
- represents a resource to GEO and the GFCS.
Key Results Achieved in 2017-2019 by C3S

• European State of the Climate
• C3S Climate Data Store (CDS)
  • EMS Technology Achievement Award 2019
• ERA5 1979-present in CDS
• Monthly climate bulletins on EURONEWS
• Demonstrators for sectoral applications
• Operational multi-model seasonal forecasting system
Key Milestones and/or Deliverables for 2020-2022

- Extension of ERA5 back to 1950: by Q1 2020
- Addition of ERA5-Land (downscaled version at 9km, global): 2020
- Inclusion of additional contributors to multi-model seasonal forecasting system (JMA, NOAA, ECCC, BOM?): 2020-2021

Activities beyond 2021 will depend on agreement with EC
Good Practices and/or Lessons Learned

Good practices

- CDS: seamless access to data, efficient tools, quality assurance, user support, guidance and training, documentation, outreach and communication
- Sectoral applications: Co-design of workflows with users

Lessons

Difficult to anticipate the infrastructure needed to support use by a fast growing user base, sometimes with unpredictable behaviour
Requests for Assistance

• Importance for C3S to belong to GEO community to exchange good practices, lessons learnt, data and tools

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Contact

ECMWF

Fabio.Venuti@ecmwf.int  Jean-Noel@ecmwf.int

@JeanNoelThepaut
@CopernicusECMWF