

Introducing the French national programme TRACCS: TRAnsformative Advances in Climate modelling for Climate Services

Masa Kageyama¹, Samuel Morin², Sandrine Anquetin³, Nathalie de Noblet¹, Laurent Terray⁴, Olivier Boucher⁵, Julie Deshayes⁶, Gaël Durand³, David Salas y Mélia², Ludovic Bouilloud⁷, and Pascale Braconnot¹

What is TRACCS ?

 An 8-year-long programme at the French national level (budget: 51 M€) • gathering the French climate research organizations



creation of an integrated research ecosystem covering a wide range of domains, from fundamental research on climate change to the co-development of climate services



Starting point : climate science and society



Structural entities and core projects



- Special focus on extreme events: quantification, attribution, compounds, future evolution
- Transformative, interdisciplinary and transdisciplinary advances towards climate services
- a consistent set of improved climate models
- operating across all spatial (100-1 km scale) and temporal scales of the climate system,
- enabling long simulations & large ensembles.

for science and climate services

Call for projects

Over the next years, TRACCS will launch 2 calls for projects at the French level, at least on the following topics :

- Interdisciplinary approaches for climate change impacts, adaptation and services
- Evaluation of climate interventions
- AI for climate sciences
- Model evaluation

International collaborations, training

International collaboration :

Within the course of the programme, incentives for collaboration with other countries with similar programmes will be sought, as well as incentives towards the French climate research community to contribute to international actions such as those developed by WCRP

Training:

TRACCS will contribute to training the next generation of climate experts, for fundamental climate science and modelling to developing climate services, in particular by organising dedicated schools and workshops.

