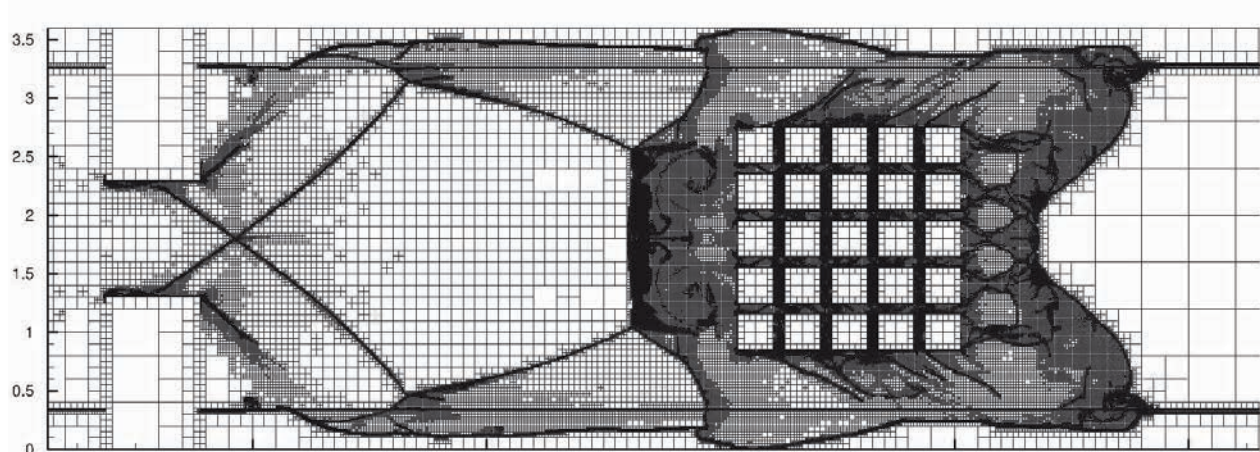
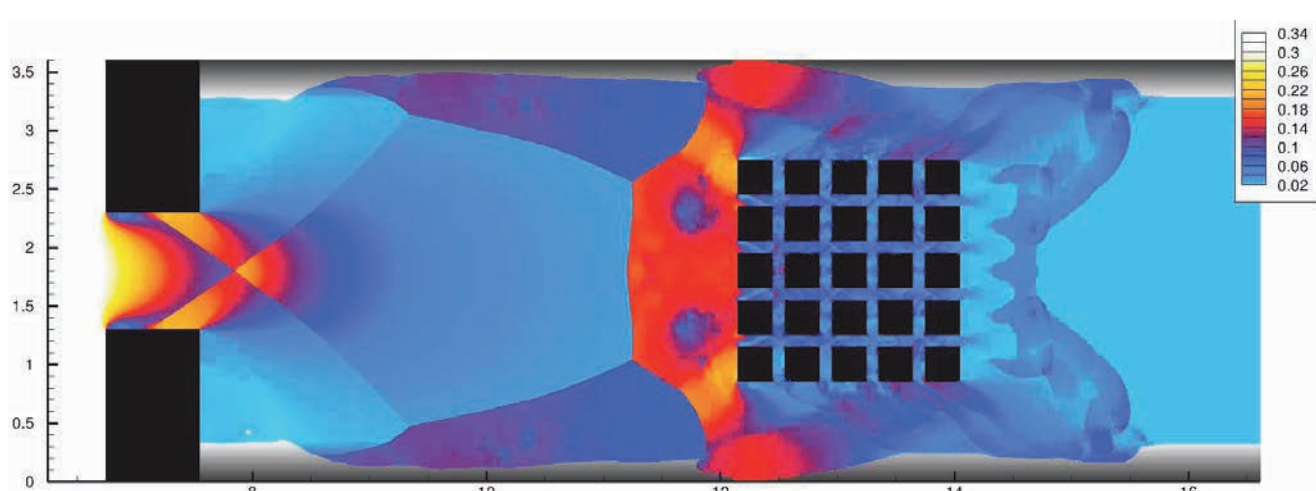


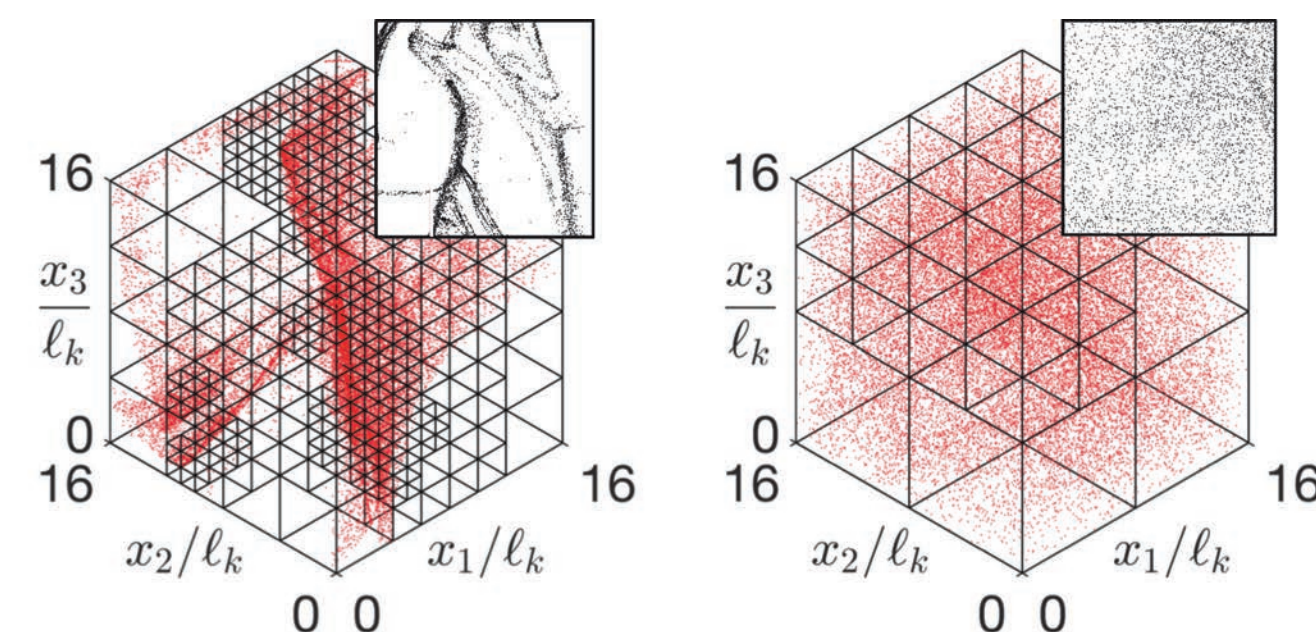
International Workshop on Wavelets & CFD

11 June 2019, Paris

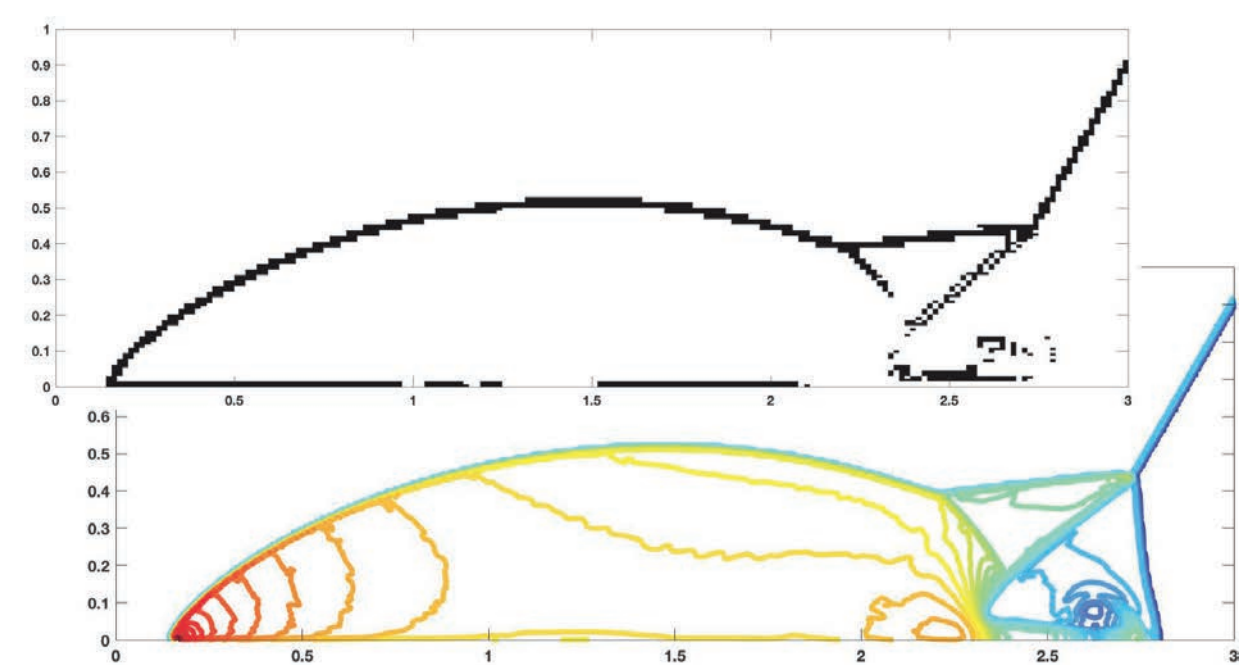
Bumblebee flight in heavy turbulence (Thomas Engels)



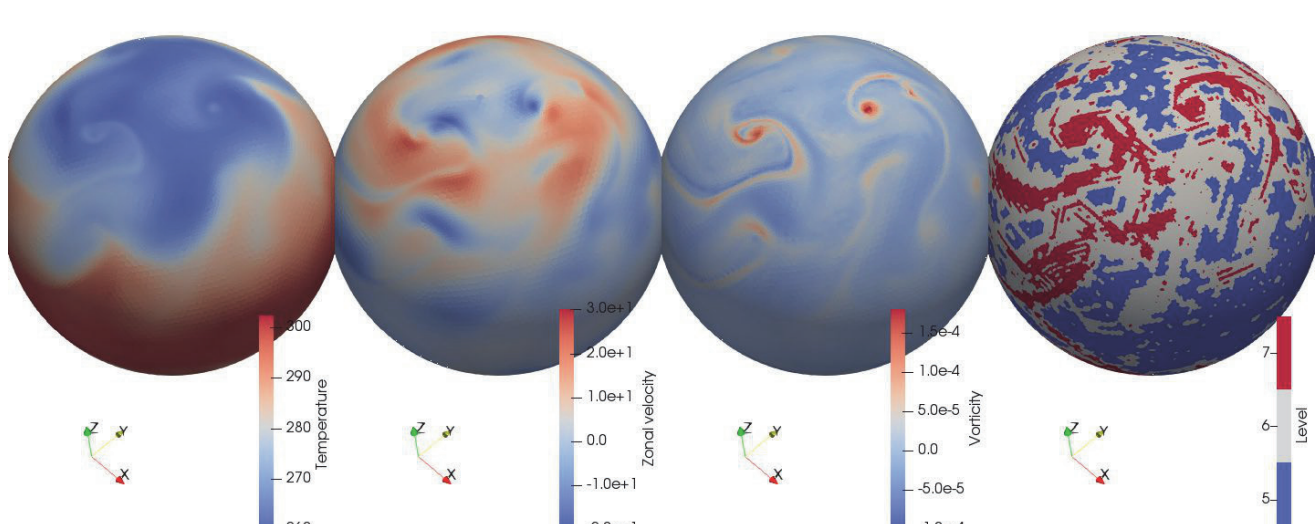
Snapshot of a shallow water DG simulation of the flooding of an idealized city in a water channel (Siegfried Müller)



Wavelet analysis of inertial particle preferential concentration in turbulent flows (Maxime Bassenne)



Fourth-order DG Solution of the double Mach reflection problem using a multi-wavelet based troubled-cell indicator (Jennifer Ryan)



Simplified Held and Suarez (1994) climate model based on an adaptive wavelet method on the sphere (Nicholas Kevlahan)

The aim of this workshop is to bring together research scientists and PhD students working in the field of wavelet-based CFD methods to get a global view of the state-of-the-art of this type of methods in the different areas of CFD. The following topics will be covered:

- Error estimation and mesh adaptation
- Shock-detection techniques
- Turbulence modeling and simulation
- Post-processing, data analysis and data compression.

The workshop will be organized in 5 invited talks given by leading experts in the field, and 1 poster session.

Invited speakers

Jennifer Ryan (University of East Anglia, UK)
Siegfried Müller (RWTH Aachen University, Germany)
Nicholas Kevlahan (McMaster University, Canada)
Maxime Bassenne (Stanford University, USA)
Thomas Engels (Ecole Normale Supérieure, France)

Organizers

Marta de la Llave Plata (ONERA), Kai Schneider (AMU), Marie Farge (ENS)

Information & Free Registration Online:

<https://www.onera.fr/en/agenda/workshop-on-wavelets-and-cfd>



This event is organized by ONERA in collaboration with Aix-Marseille Université (AMU) and Ecole Normale Supérieure (ENS) de Paris, in the framework of the European H2020 project SSeMID – Stability and Sensitivity Methods for Industrial Design (Call: H2020-MSCA-ITN-2015).