



Contribution ID: 6

Type: **Short talk**

HPC challenges for ocean and atmosphere simulations

Wednesday 22 March 2023 10:30 (10 minutes)

The INRIA AIRSEA team in Grenoble is specialized on ocean and atmosphere models. This short talk will briefly outline our current HPC research topics:

- Domain specific languages: For patch-based Ocean simulations CROCO and NEMO
- Load balancing: Non-equal time-varying workload, AMR, coupling, homogeneous and heterogeneous systems
- Data-intensive data-flows: Part of data assimilation and uncertainty quantification
- Dynamic resources: Getting rid of the static resource allocation in MPI
- Parallel-in-time methods: Targeting atmosphere and ocean simulations

JLESC topic

Primary author: SCHREIBER, Martin (Université Grenoble Alpes)

Presenter: SCHREIBER, Martin (Université Grenoble Alpes)

Session Classification: Short Talks on Applications

Track Classification: Applications and mini apps