

Borsa post Laurea

Coupled data assimilation of infra-red data in coupled ocean-atmosphere models

The applicant will be part of the national project MC-Forum funded by the Italian Space Agency (ASI). In this framework he/she will study the potential of the new infrared measurements of the atmosphere that may become available via a future ESA mission. The research will pertain studying the impact of these new data within a data assimilation routine. Focus will be given to the use of ensemble data assimilation approaches and on the capabilities of the new data to provide information utilisable for improving the subseasonal-to-seasonal (S2S) climate predictions. Specifically in the 6 months of the grant the early career researcher will:

- gain deep insight on the new data and on the physical quantities they could retrieve
- practising on running the coupled atmosphere-ocean model
- choosing and practising with the data assimilation platform