

Workshop on Wind Profiles and Mesoscale Data Assimilation

19-20 September 2016
Ljubljana, Slovenia

Almost fifty years ago the first sensitivity experiments on the importance of various observations for Numerical Weather Prediction (NWP) showed that “Not all data are equal in their information-yielding capacity. Some are more equal than others.” (Smagorinsky, 1969). Wind information, the “more equal” one, remains the main missing component of the global observing system.

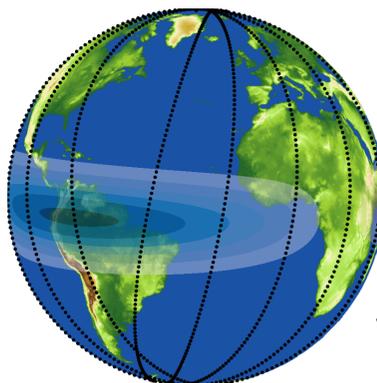
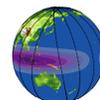
Observations of the vertical wind profiles by the ESA ADM-Aeolus mission have been demonstrated to have the potential of providing a significant improvement in NWP, primarily in the tropics where the lack of wind information is most critical for the global NWP. The same dynamical and data issues that apply to the tropics are shared by mesoscale NWP models.

The workshop aims to discuss some open issues in mesoscale data assimilation for NWP. In particular, the workshop is an opportunity to present latest advances and discuss new ideas related to the following topics:

- Application of ADM-Aeolus winds in mesoscale models
- Wind observations and balanced initial conditions on mesoscale
- Gravity waves versus imbalance in data assimilation

Webpage: <http://meteo.fmf.uni-lj.si/en/workshop>

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Presentations on the operational applications and research related to the assimilation of wind observations and the balance issues in mesoscale data assimilation are welcome.

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Simulated 12-hour track of the ADM-Aeolus satellite showing every second location (180 km) of the expected wind profiles

