



## **Call for space geodetic solutions corrected for non-tidal atmospheric loading at the observation level**

X. Collilieux (1), T. van Dam (2), and Z. Altamimi (1)

(1) Institut National de l'Information Géographique et Forestière (IGN), Laboratoire LAREG, Marne-la-Vallée, France, (2) University of Luxembourg, Luxembourg

The objective of this presentation is to describe the call for participation of the IERS analysis campaign entitled "Call for space geodetic solutions corrected for non-tidal atmospheric loading at the observation level". The main objective is to evaluate the impact of non-tidal atmospheric loading corrections on Terrestrial Reference Frame (TRF) and Earth Orientation Parameters (EOP) estimated from the four main geodetic techniques: Global Navigation Satellite Systems, Satellite Laser Ranging, Very Long Baseline Interferometry and Doppler Orbitography and Radiopositioning Integrated by Satellite (DORIS). Compared to previously published studies, this call is an opportunity to assess the impact of atmospheric loading corrections to all technique solutions using the same loading model.

The details of the call will be summarized here: specifications of the solutions, loading model to be used, required analysis options and sampling rate of the solutions. Submitted solutions with and without non-tidal atmospheric loading corrections applied will then be compared. The issue of applying mean daily non-tidal atmospheric loading corrections versus using the loading model a priori in the data processing will be also revisited for the four space geodetic techniques. Finally, the impact of non-tidal atmospheric loading on the International Terrestrial Reference Frame (ITRF) will be carefully studied.