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BACCHUS project: Evaluation of GEM-MACH15 and adaptation to Europe

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BACCHUS is a bilateral project between Belgium and Canada to develop modeling and assimilation tools for chemical weather applications. In this framework we have started the evaluation of the GEM-MACH15 Air Quality forecasting model running operationally above Canada. Here we show results of comparisons between predictions and ozonesonde observations above North America. Furthermore, we are in the process of adapting GEM-MACH15 to allow it to run over the European domain as well as improving the ozone treatment at higher altitude in its chemical module. Preliminary results are shown.