

Numerical fog predictions are carried out over Paris and suburbs including the Roissy Charles-de-Gaulle (CDG) (countryside airport) and Orly (urban airport) to study the effect of the city on fog predictions. Simulations on 150*150km domain are performed with a specific configuration of the operational meso-scale model AROME. The formation of radiative fog appears north of Paris (countryside). Once set, it is advected over Paris and transformed into low clouds thanks to the turbulence and the heat flux produced by the city. Paris impacts strongly the formation and the evolution of fog around the city. During the dissipation phase, no real impact is detected on fog properties.