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**Trajectory Analysis and Evaluation of WRF and MM5 Meteorological Simulations.**

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Trajectory analysis of the field campaign is carried out using the Flexpart stochastic Lagrangian particle model. Mesoscale meteorology in the basin is simulated at 3-km resolution using both MM5 and WRF for the duration of the field campaign. The quality of the wind fields is evaluated using surface observations and radiosondes. The trajectory simulations are then used to evaluate residence times and recirculation fractions in the basin as well as to identify the source and fate of local pollutants.