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Results are presented from a six week observation period of indoor climate made simultaneously to local meteorological observations. Indoor and outdoor measurements of NO_x concentrations, a tracer gas decay and thermal profiling were carried out in a single large room in an unoccupied building on Marylebone Road; central London. A rooftop meteorological mast allows comparison of the interior climate with external forcing so as to determine what effects local meteorology has on human occupation in terms of both thermal comfort and air quality. Results can be compared to thermal models of buildings run using observed parameters.