

Air Temperature

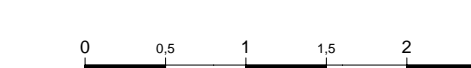
Entire Area 10:00 p.m.

Air Temperature in °C



1. The represented results to chapter 04.10 Climate model Berlin were calculated under application of the regional climate model FITNAH, Flow Over Irregular Terrain With Natural And Anthropogenic Heat Sources. The essential goal of the examinations was to predict the changes of the climatic circumstances of Berlin's urban structures. The maps of chapter 04.10 supplement those environmental-maps 04.02, 04.03 - 04.05 as well as 04.07, which were based upon measurements at 41 monitoring stations and on about 3850 monitoring points all over the city and its surroundings in the years until 1999. The results of these maps were consulted for plausibility examinations here.
2. The model FITMAH calculates meteorological parameters on a three-dimensional grid. For the present calculations, a screen resolution of 200 m x 200 m was selected in the entire area, additional 50 m x 50 m in a detailed analysis area.
3. The model calculations were started in each case at the time of the sunset in the evening and executed until sunrise of the subsequent day. In form of maps for the individual climate parameters the points in time 22:00 o'clock and 06:00 o'clock were presented. The date 22:00 o'clock represents the reversal of the inversion to the radiation situation shortly after sunset and shows the beginning of a phase of big cooling dynamics. The 06:00 o'clock date stands for the maximum cooling within the city (with different characteristics according to surface structure).
4. In the maps of chapter 04.10 the climate conditions of the near ground atmosphere were shown as grid means of the separate parameters over terrain height in 2 m. If several land-uses exist within a screen with different percentages, so the shown value calculates from the averaged weighting. In this respect, the simulated statements are comparable only for bigger areas of uniform as well as corresponding land-use with near ground measurements.

Scale: 1 : 50 000



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Data from: September 2002

Based on the Maps: Digitale Arbeitskarte 1 : 50 000 des ISU-Berlin;
Topographische Karte 1 : 50 000 (AV), Stand 1974/1982.

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