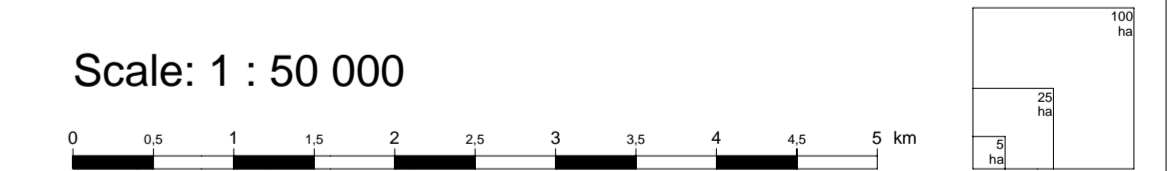


Air Temperature
Entire Area 06:00 a.m.

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 3000 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 FITNAH calculates meteorological parameters on a three-dimensional grid. For the present calculations, a screen dissolution 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 clock represents the reversal of the insulation to the radiation situation shortly after sunset and shows the beginning of a phase of 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 results 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 sim-based statements are comparable only for bigger areas of uniform as well as corresponding land-use with near ground measurements.



Published by: Berlin Department of Urban Development
Communication

Conception: GEO-NET Umweltplanung und GIS-Consulting GbR; Prof. Dr. G. Groß
Gruppe IX B 2 Informationssystem Stadt und Umwelt (ISU)
GEO-NET, IX B 2
Text: Nutzungs- und Höhenangaben des ISU Berlin
Data: Flächenmonitoring mit gesamtschädlich bedeutsamen Veränderungspotenzialen
Senatverwaltung für Stadtentwicklung, 1. A 1, 2001

Data Processing and Map Production: GEO-NET, Prof. Dr. G. Groß unter Verwendung des Klimamodelles FITNAH; IX B 2
Colour Scheme: IX B 2
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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Edition 2002
Internet-Address: <http://www.stadtentwicklung.berlin.de>