		Table U2 Urban climate effects for a mid-latitude city with about 1 million inhabitants (values for summer unless otherwise noted)		
	7.1 Urban climate effects	Variable	Change	Magnitude/comments
		Turbulence intensity	Greater	10-50%
		Wind speed	Decreased Increased	5-30% at 10 m in strong flow In weak flow with heat island
		Wind direction	Altered	1-10 degrees
		UV radiation	Much less	25-90%
		Solar radiation	Less	1-25%
		Infrared input Visibility	Greater Reduced	5-40%
		Evaporation	Less	About 50%
		Convective heat flux	Greater	About 50%
		Heat storage	Greater	About 200%
URBAN CLIMATOLOGY		Air temperature	Warmer	1–3°C per 100 years; 1–3°C annual mean up to 12°C hourly mean
		Humidity	Drier	Summer daytime
VII. Spatio-temporal variability of other			More moist	Summer night, all day winter
		Cloud	More haze More cloud	In and downwind of city
meteorological elements in urban areas		Fog	More or less	Especially in lee of city Depends on aerosol and
			More of less	surroundings
		Precipitation	1	Some turns to rain
		Snow Total	Less More?	To the lee of rather than in cit
		Thunderstorms	More	to the ice of rather than in cit









Modification of wind speed near obstacles calculated using WAsP model – an example for for high-rise buildings (60 m) at Šumavská str. a) study area (black – buildings, green – roughness, red – altitude); b) mean wind speed near buildings for NW wind direction; c) relative reduction of mean wind speed near buildings for NW wind direction

