Heat Island Effect

Per Phil Jones & Moberg's paper J of Climate January 2003, for the warming period 1977-2001, "significant warming trends are present in only 10-20% of the available grid boxes"

Jones and Moberg use 5x5 deg grid boxes. So of the present warming, only one fifth of the grid boxes show statistically significant warming and a close look at these boxes reveal that for land-areas, most of these boxes are in the vicinity of large cities and urban centers of the world.

So in essence the statistically significant warming is primarily due to urbanization and land-use change and NOT due to increased greenhouse gases. A recent paper by Ross McKitrick & Patrick Michaels, J of Geophysical Research December 2007 succinctly show that up to half of the present warming is due to extraneous factors, urbanization, land-use change, economic activity etc.

Outside of the "significant warming' grid boxes, the warming is only modest and is of NO major concern. Further, this modest warming can be explained as due to changes in large-scale circulation patterns, solar variability etc.

So we have the basic question once again: Where is the CO2-induced warming which is statistically significant? It is elusive and hard to locate.

Finally Prof Lindzen's point re: "explaining statistically significant warming may be difficult" is of well taken, but I like to think that most trained scientists and professionals today would have a sense of significant warming without knowing the statistical test of significance that precedes it!

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