Debunk this

One claim that is occasionally made regarding climate change is that the reason the Earth is warming is due to the additional body heat of a growing population (http://goo.gl/J2DpLe). We currently have approximately 7.5 billion people on Earth. On average the radiation emitted from each person is 100 W.

a. Ignoring all other factors, please calculate the radiative forcing (RF) of heat emitted from humans to our planet in units of W/m2. For a "control" state, you can consider a planet void of humans [ignore the fact that populations of other animals have changed].

b. Estimate the change in surface temperature (ΔT) due to this extra heat from a baseline/control temperature of 288K. Assume no other changes to the surface energy budget and use the Stefan Boltzmann relationship below. To help you, I set up two equations, the first of which you can plug in $T_{control}$ = 288K. The constant (σ) is 5.67 x 10^{-8} W/m^2/K.

$$I_{control} = \sigma T_{control}^{4}$$

$$I_{control} + RF = \sigma T_{experiment}^{4}$$

$$\Delta T = T_{experiment} - T_{control}$$

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