Forcings and Feedbacks

Michael Hunt May 9, 2016

Energy balance at the top of the atmosphere

$$F_{TOA} = F_{Solar} - FIR$$

If the planet is in equilibrium, these two balance at the top of the atmosphere and the net top-of-the-atmosphere flux $F_{TOA}=0$

Now, ${\cal F}_{TOA}$ is a function of the surface temperature and many other variables.

$$F_{TOA} = F_{TOA} \left(T_S, x_1, x_2 \dots x_N \right)$$