

SUMMARY OF TALK TO BE GIVEN TO THE LBA MEETING, MANAUS, 3 NOV.
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CURRENT ESTIMATES OF GREENHOUSE GAS EMISSIONS FROM LAND-USE CHANGE
IN BRAZILIAN AMAZONIA

The talk will summarize our latest estimates of greenhouse gas emissions from land-use change in the Brazilian Legal Amazon. The largest source is deforestation, with emissions occurring through burning of original forest biomass (both in the initial and in subsequent burns), decay, soil carbon release, and recurrent processes in the replacement landscape (including burning of secondary forests and cattle pastures). Logging produces a substantial additional net emission. Carbon uptake by the replacement landscape compensates for only a small fraction of the emissions, contrary to recent statements by INPE. Additional emissions come from hydroelectric reservoirs. Implications will be discussed in terms of net committed emissions and the annual balance of emissions.