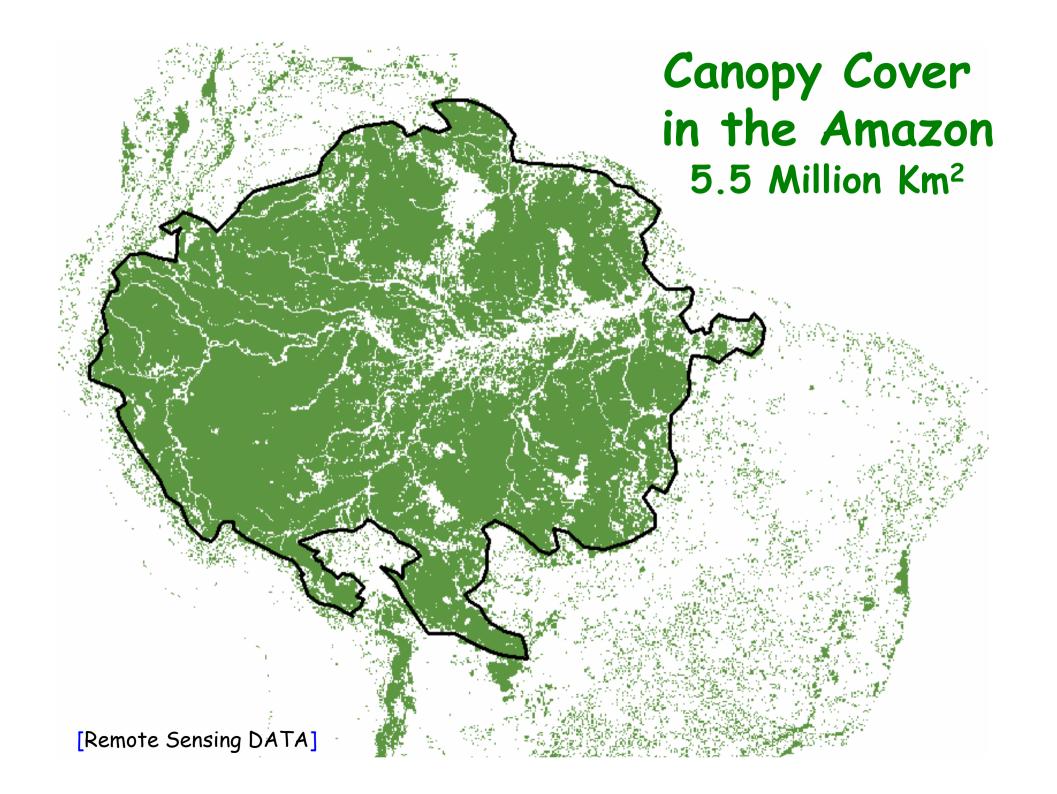
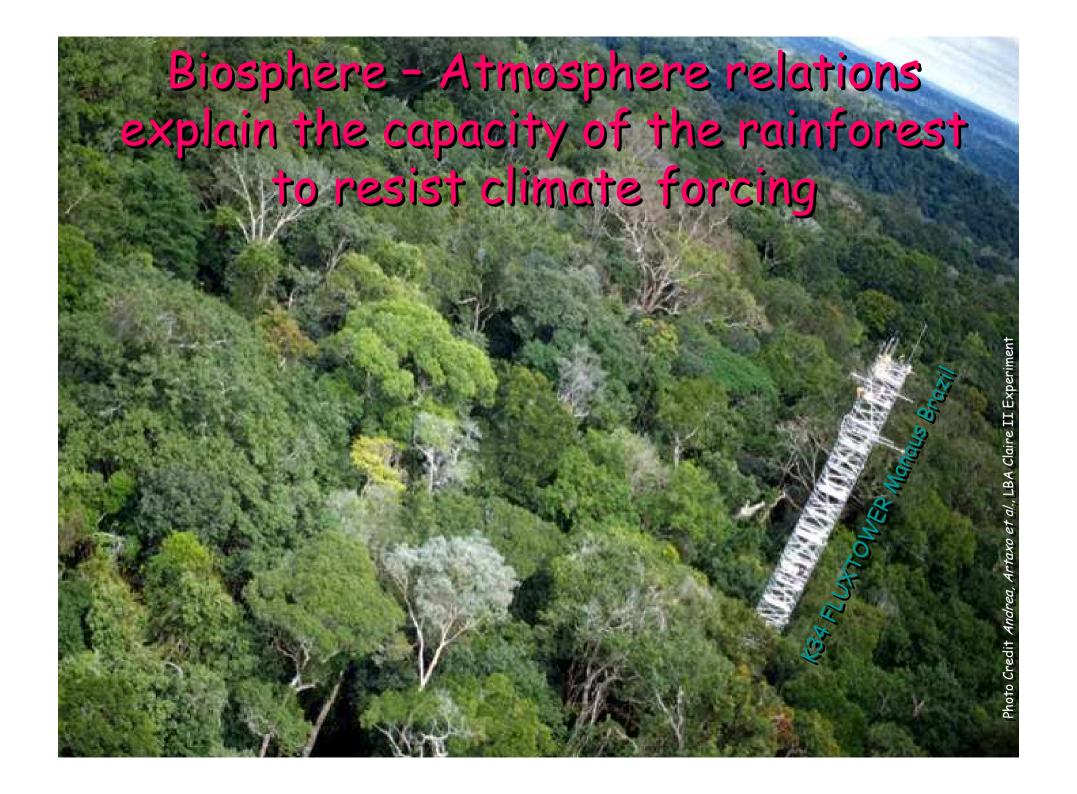


A.D. Nobre, INPA

Royal Society UNFCC Side Event Biodiversity - Climate Interactions: adaptation, mitigation and human livelihoods 6 December 2007, Bali, Indonesia





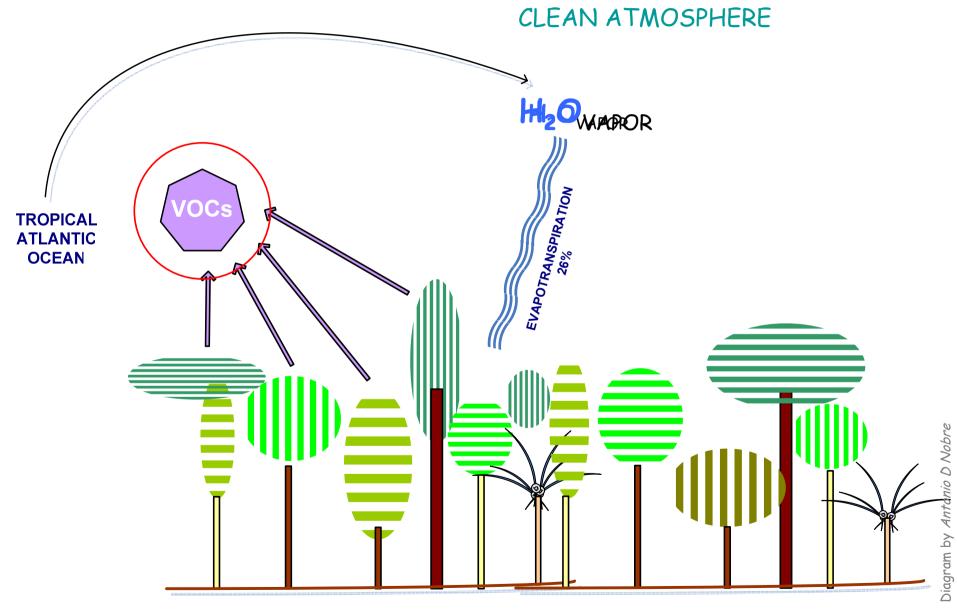


TROPICAL RAINFALL 2 years data from TRMM 8 1998 Jan satellite Animation Credit NASA Goddard DATA

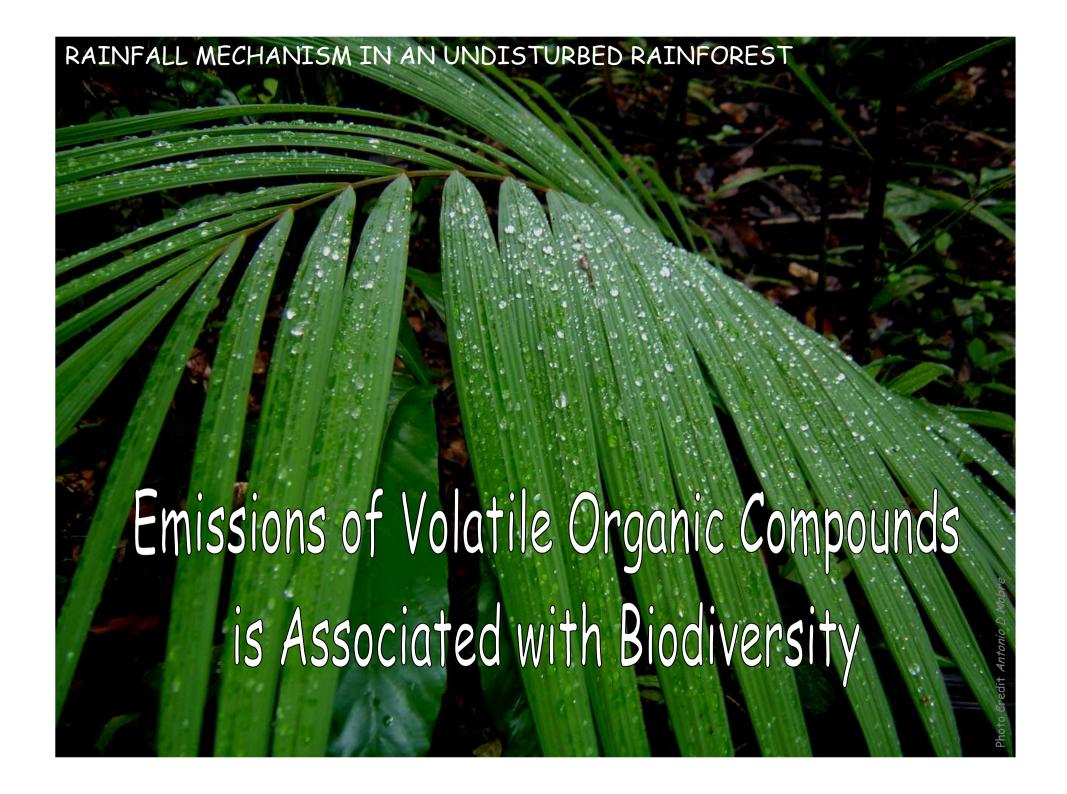


RAINFALL MECHANISM IN AN UNDISTURBED RAINFOREST

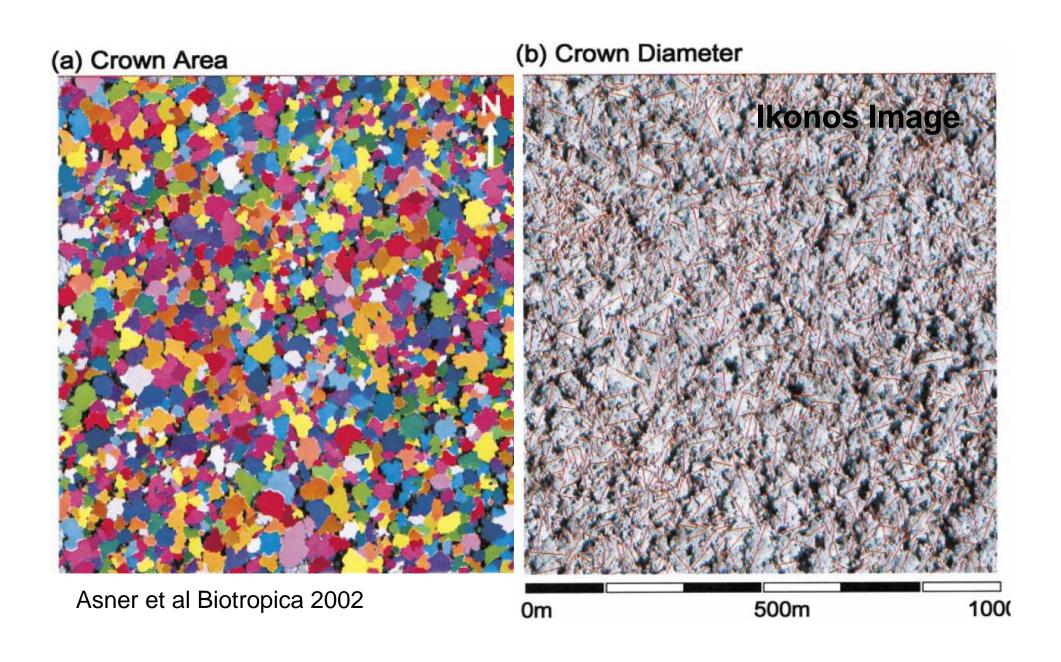
Photo Credit Antonio D Nobre



based on results of LBA: Claeys et al and Andrea et al. Science 2004; Marengo et al 2004, 2005; others



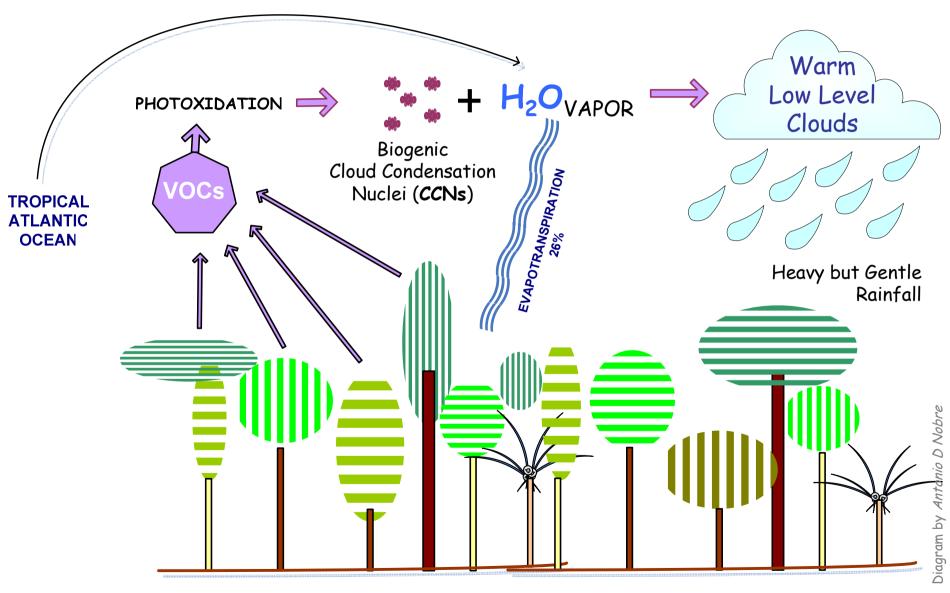
Complexity in the Tree Tapestry



RAINFALL MECHANISM IN AN UNDISTURBED RAINFOREST

[MODEL]

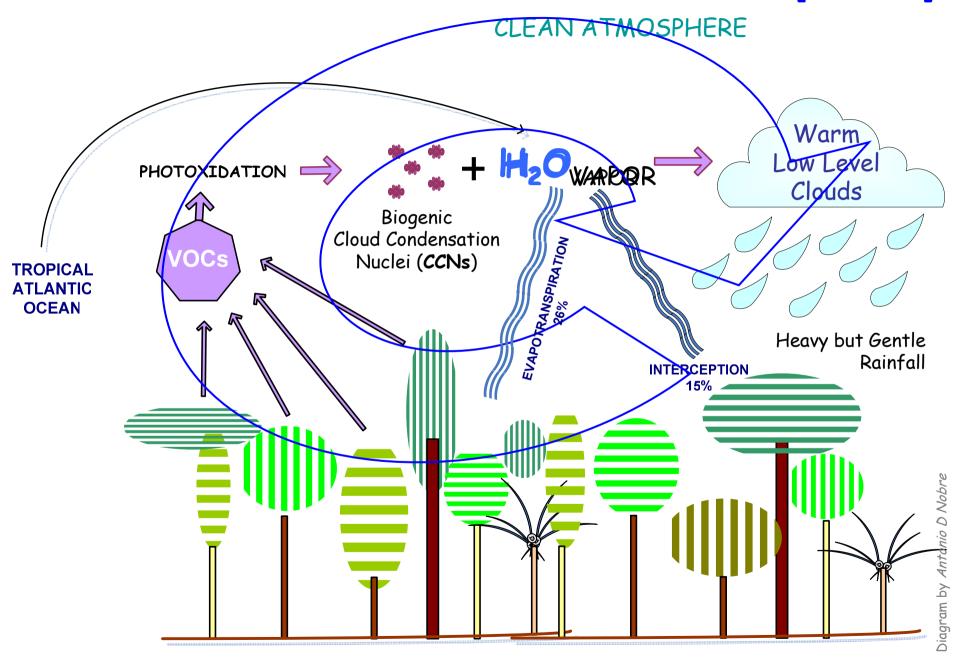
CLEAN ATMOSPHERE



based on results of LBA: Claeys et al and Andrea et al. Science 2004; Marengo et al 2004, 2005; others

RAINFALL MECHANISM IN AN UNDISTURBED RAINFOREST

[MODEL]



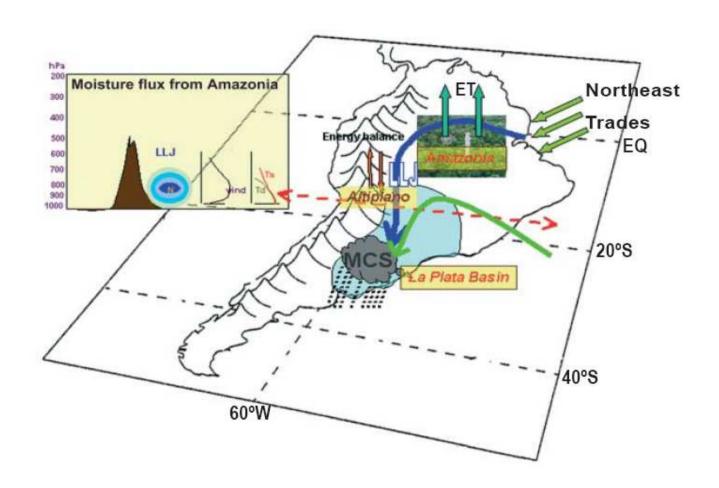




HUMAN LIVELIHOODS

South America Low Level Jets

Humidity from the Amazon and Sub-tropical Atlantic

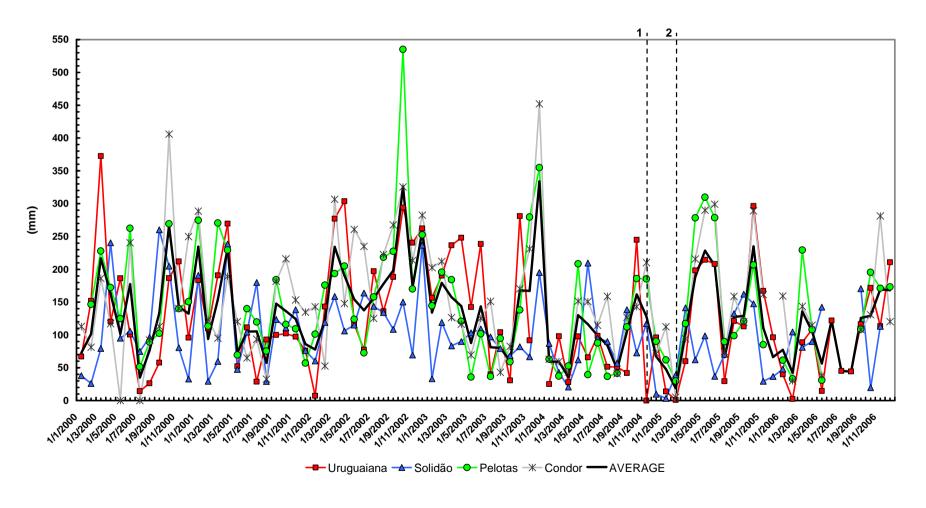


Global Canopy Program Ecological Environmental Services Side Event, 7/12 Friday, 8 PM

Adapted from Marengo (2007)

2005 Drought (Brazilian South)

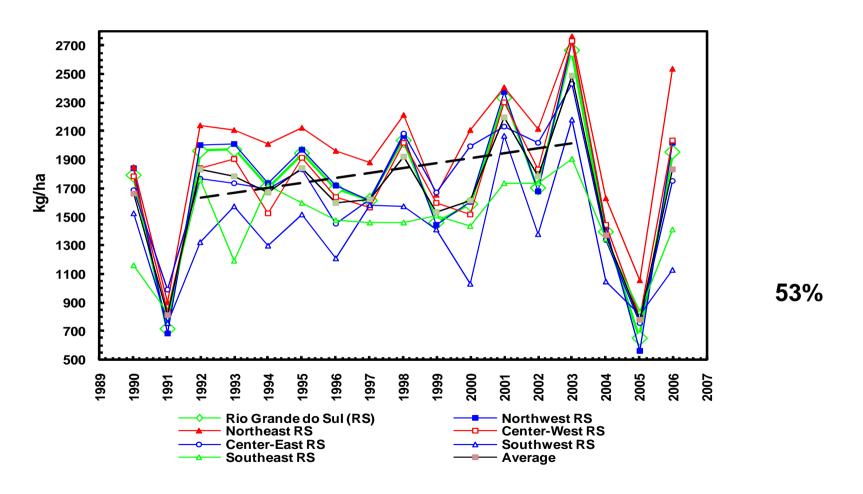
Drought was more critical in the region of SALLJ



Adapted from Agência Nacional das Águas (October, 2007)

2005 Drought: Soy Productivity

Brazilian South faced huge losses in agriculture



Calculated from IBGE (2007)