

A New Approach for Estimating Carbon Emissions from Deforestation



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UN FRAMEWORK CONVENTION ON CLIMATE CHANGE IS CONSIDERING POLICY FOR CARBON CREDITS TO DEVELOPING COUNTRIES FOR REDUCING DEFORESTATION

SUBMISSION FROM PAPUA NEW GUINEA AND COSTA RICA

**Submission by the Governments of
Papua New Guinea
& Costa Rica**

Reducing Emissions from Deforestation in Developing Countries: Approaches to Stimulate Action

Eleventh Conference of the Parties to the UNFCCC: Agenda Item # 6

Papua New Guinea and Costa Rica, on behalf of many supportive Nations (Bolivia, Rép. Centrafricaine, Chile, Rép. Congo, Rép. Démocratique Congo, Dominican Rep., Guatemala, Nicaragua)

call upon the Parties to the UNFCCC and to the Kyoto Protocol to:

- take note of present rates of deforestation within developing nations,
- acknowledge the resulting carbon emissions, and consequently
- **open dialogue to develop scientific, technical, policy and capacity responses to address such emissions resulting from tropical deforestation.**

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE FOURTH ASSESSMENT REPORT

Table 7.2. Land to atmosphere emissions resulting from land use changes during the 1990s and the 1980s (GtC yr⁻¹). The Fourth Assessment Report (AR4) estimates used in the global carbon budget (Table 7.1) are shown in bold. Positive values indicate carbon losses from land ecosystems. Uncertainties are reported as ± 1 standard deviation. Numbers in parentheses are ranges of uncertainty.

	Tropical Americas	Tropical Africa	Tropical Asia	Pan-Tropical	Non-tropics	Total Globe
1990s						
Houghton (2003a) ^a	0.8 ± 0.3	0.4 ± 0.2	1.1 ± 0.5	2.2 ± 0.6	-0.02 ± 0.5	2.2 ± 0.8
DeFries et al. (2002) ^b	0.5 (0.2 to 0.7)	0.1 (0.1 to 0.2)	0.4 (0.2 to 0.6)	1.0 (0.5 to 1.6)	n.a.	n.a.
Achard et al. (2004) ^c	0.3 (0.3 to 0.4)	0.2 (0.1 to 0.2)	0.4 (0.3 to 0.5)	0.9 (0.5 to 1.4)	n.a.	n.a.
AR4^d	0.7 (0.4 to 0.9)	0.3 (0.2 to 0.4)	0.8 (0.4 to 1.1)	1.6 (1.0 to 2.2)	-0.02 (-0.5 to +0.5)	1.6 (0.5 to 2.7)



**Large range in estimates of
carbon flux from tropical
land use change**