

Government of Vanuatu



Vanuatu Forests: Reducing Emissions from Deforestation and Degradation

UNFCCC, SBSTA Workshop, Cairns, March 2007

http://www.vuw.ac.nz/geo/research/climate-change/vanuatu-forests/index.html

Sean Weaver Robert O'Sullivan Ioan Viji on behalf of Government of Vanuatu









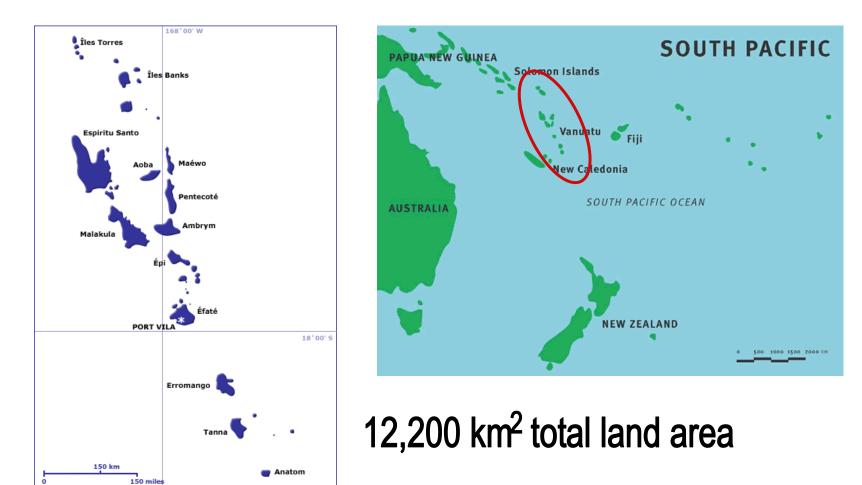




Background



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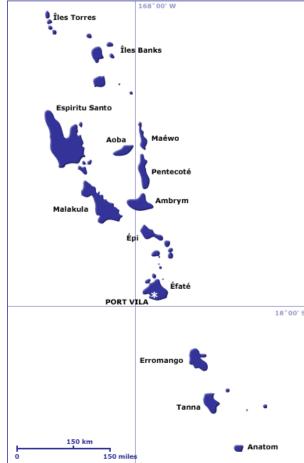






Background

















12,200 km² total land area





Vegetation





Tropical lowland and montane forest

WWF: Distinct terrestrial ecoregion "Vanuatu rain forest"

Conservation International: "East Melanesian Biodiversity Hotspot"









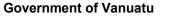


Gtriple C



Vegetation







Limited forest data sets

Low historic rates deforestation reported

Rates expected to increase

No historical/future baselines calculated

No current carbon stock estimates















Government of Vanuatu	Long God yumi stand
	RS - Forest Area Change Assessment: 1990 - 2006
	Design positive incentives:
Phase I	Carbon Stock Sectoral Crediting Baselines
	Direct Barter
	Capacity building to enable Vanuatu's participation in UNFCCC/KP negotiations
	Forest Inventory
Phase II	Test Crediting Mechanisms
	Training, Capacity Building
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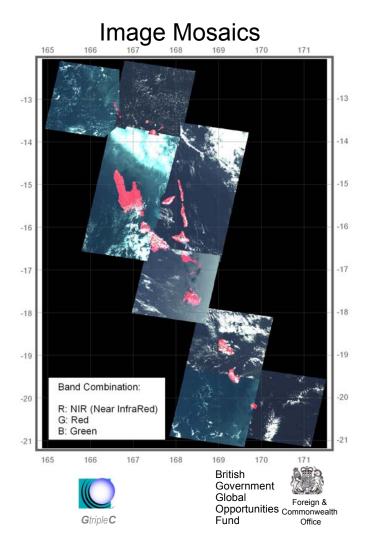


RS - Forest Area Change Assessment: 1990 - 2006

Performed by GOFC-GOLD

Consensus technical guidance on current and future capabilities for monitoring deforestation

Ongoing RS case studies (incl. Vanuatu)











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Project Objectives



RS - Forest Area Change Assessment: 1990 - 2006 Performed by GOFC-GOLD



Landsat 4 1990 North Éfaté



Landsat 7 2000 North Éfaté

Gtriple C











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Project Objectives



RS - Forest Area Change Assessment: 1990 - 2006

Vanuatu presents interesting challenges:

- No major previous satellite based land cover monitoring studies
 - Continuous optical observations challenged by persistent cloud cover



- Only basic/limited satellite coverage: needing large initial data sets to cover all islands
- \Rightarrow Topography complicates image interpretation and mapping



Degradation and change in vegetation complicates image interpretation















RS - Forest Area Change Assessment: 1990 - 2006

Emerging story: Forest degradation

















RS - Forest Area Change Assessment: 1990 - 2006

Emerging story: Forest degradation

















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Design positive incentives:

Carbon Stock Sectoral Crediting Baselines Direct Barter



International, national, and local policy National / local environment & development priorities Deforestation drivers (national & local) Institutional capacity to avoid deforestation Vanuatu land law Economic impact and use of financial incentives















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Design positive incentives:

Carbon Stock Sectoral Crediting Baselines Direct Barter









British Government Global Opportunities Foreign & Commonwealth Fund





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Design positive inventives:

Carbon Stock Sectoral Crediting Baselines **Direct Barter**

Project based mechanism within a national context

May compliment or act as an alternative to national baseline and credit approach

A reserve of stock is created and carbon stock outside the reserve is traded















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Design positive incentives:

Carbon Stock Sectoral Crediting Baselines Direct Barter









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Design positive incentives: Carbon Stock Sectoral Crediting Baselines **Direct Barter**

Programatic or sectoral scale

Similar to programmatic CDM

Calculate historical and future baseline carbon stock – credits gained for performance below baseline















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Design positive incentives:

Carbon Stock Sectoral Crediting Baselines Direct Barter









British Government Global Opportunities Foreign & Commonwealth Fund





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Design positive incentives: *Carbon Stock Sectoral Crediting Baselines Direct Barter*

Sectoral or national scale – can work outside or within carbon market

Large scale bilateral negotiations

Seller nation commits to forest protection

Buyer agrees to range of negotiated benefits (e.g. cash, debt cancellation, trade opportunities, employment, technology transfer, education...)













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Vanuatu's View on Positive Incentives



Any incentive mechanism should be inclusive

Countries with low historical deforestation baselines should not be disadvantaged

Degradation is a significant issue and should be included

Incentive mechanisms should be adaptable to small as well as large nations

Seeks to work in collaboration with other nations















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