Keeping Sediment Off The Reef

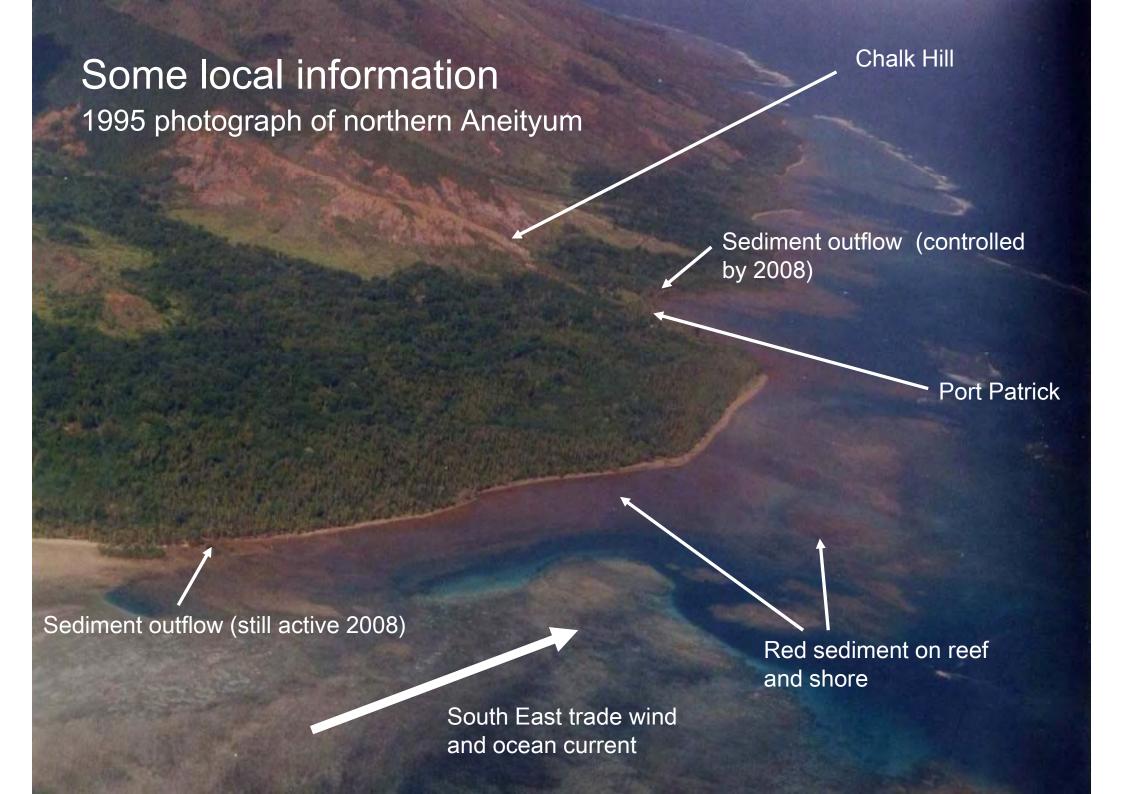


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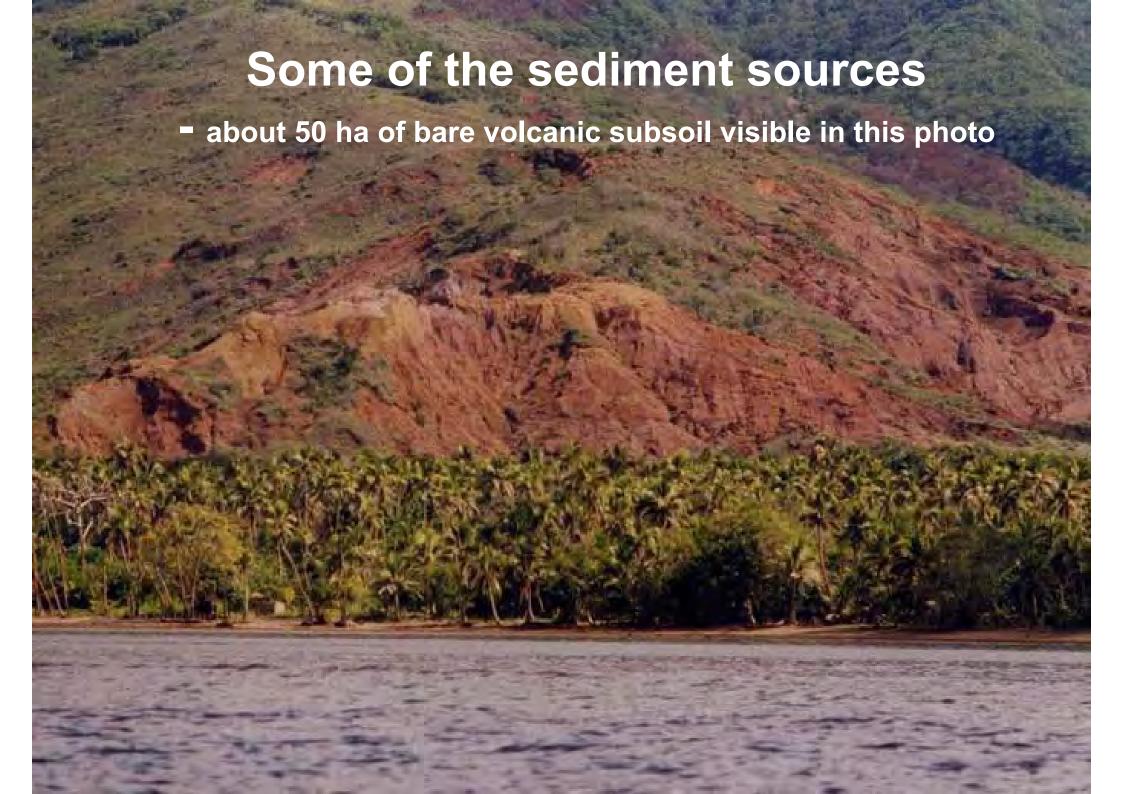
The Aneityum Erosion Control Project

A brief retrospective 6 years after NZAID funding ceased

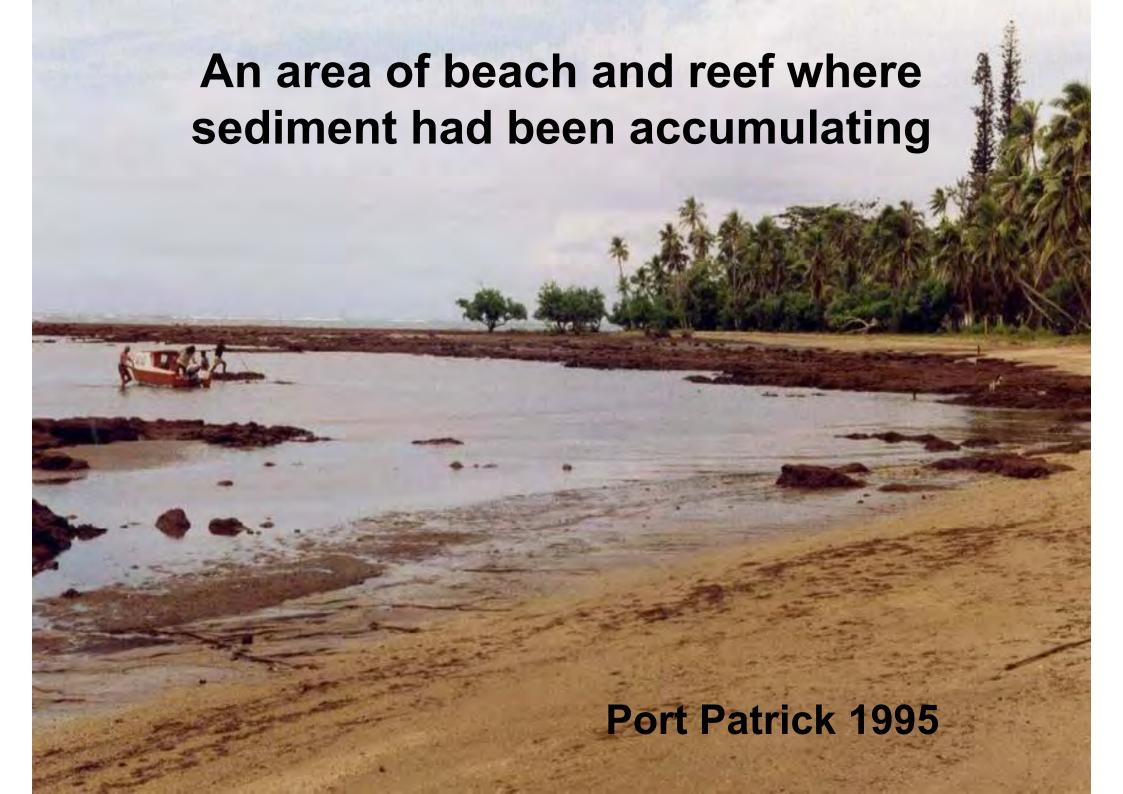
- Initial work started in January 1995
- Earlier New Zealand funded forestry plantings had prevented new erosion sites forming.
- Trees could not be established in the infertile deep raw gullies and so red mud still reached the reef
- Trials with vetiver grass, already growing on the island, began.
- Vetiver grass nurseries were established and large scale planting was undertaken.
- Indigenous trees were established in soil trapped by the rows of vetiver grass.
- Project funding ceased suddenly in late 2002.



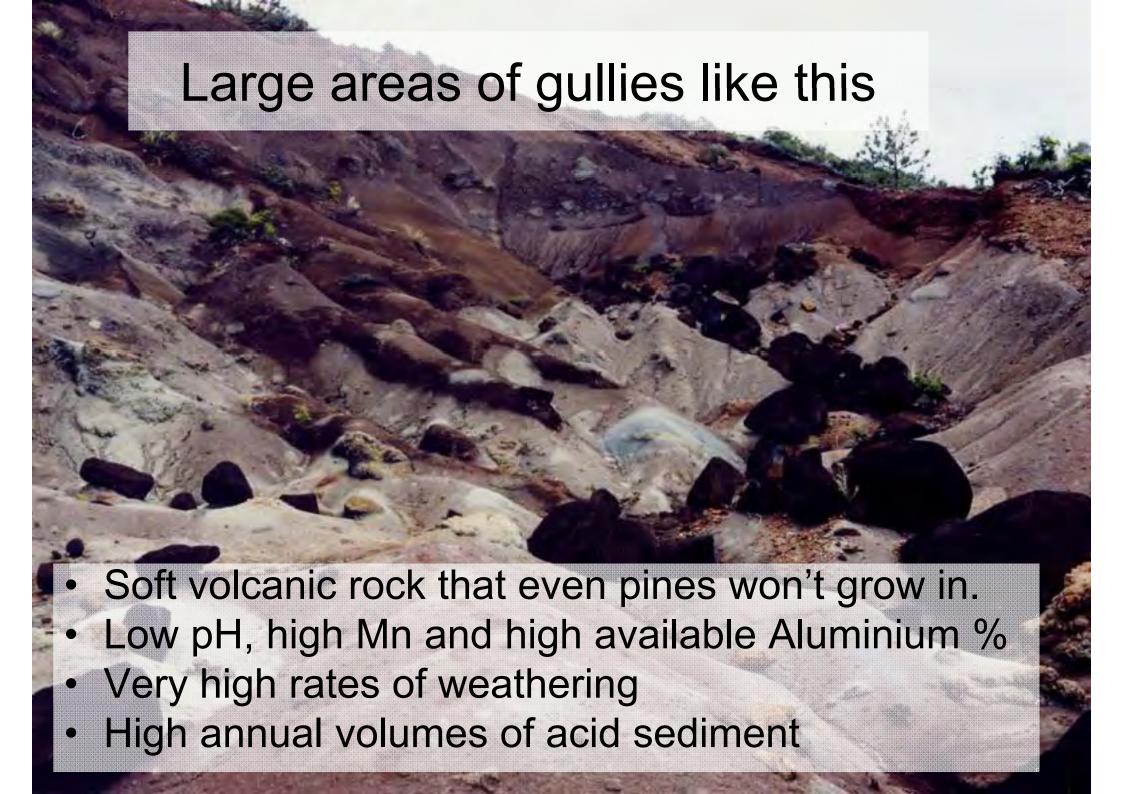






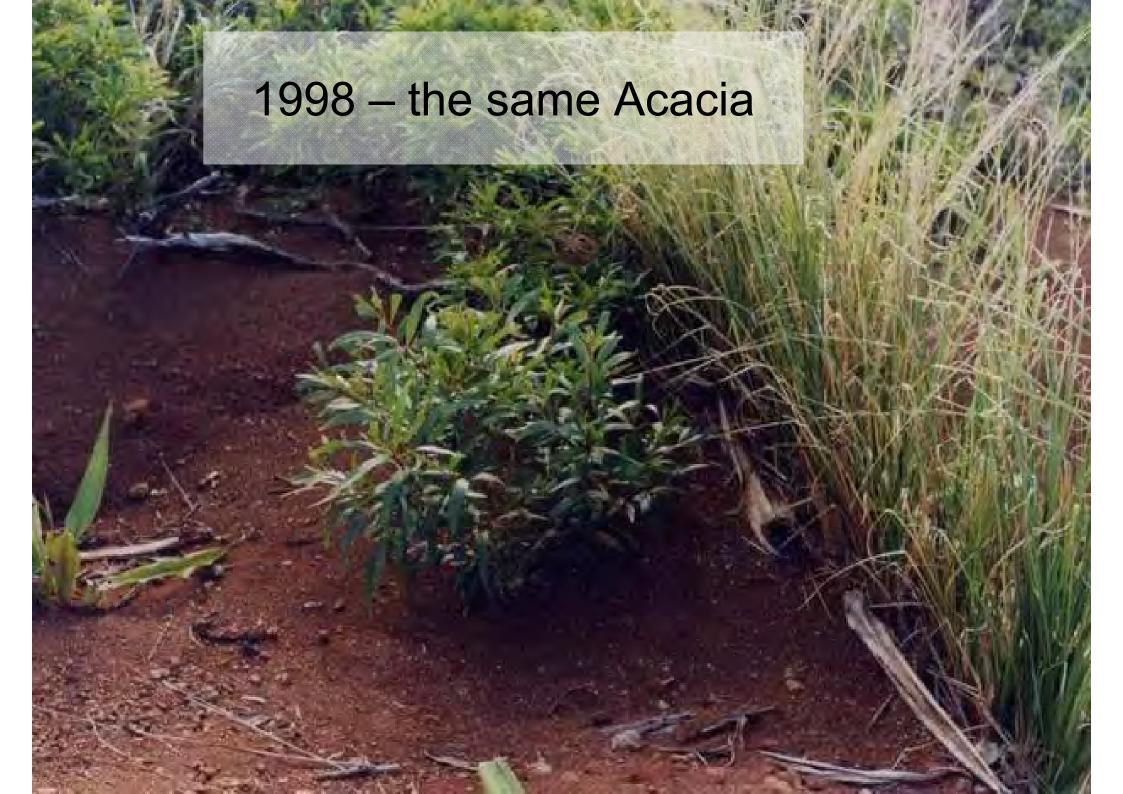




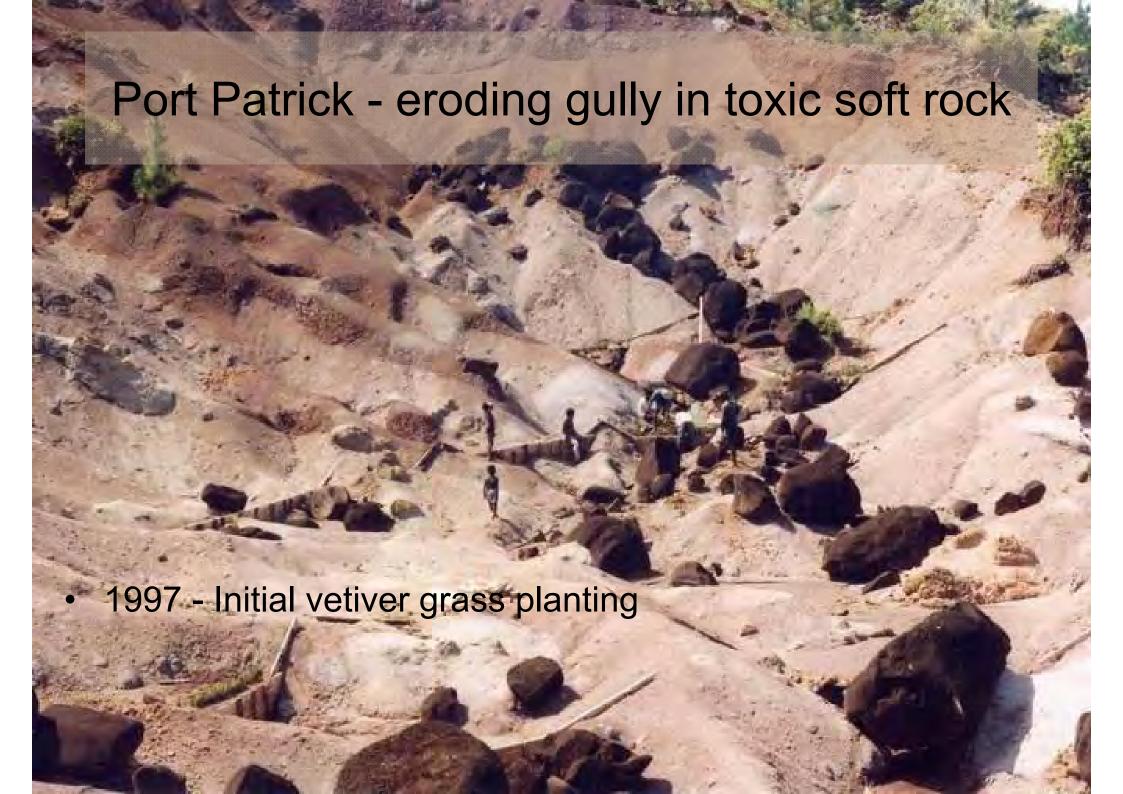


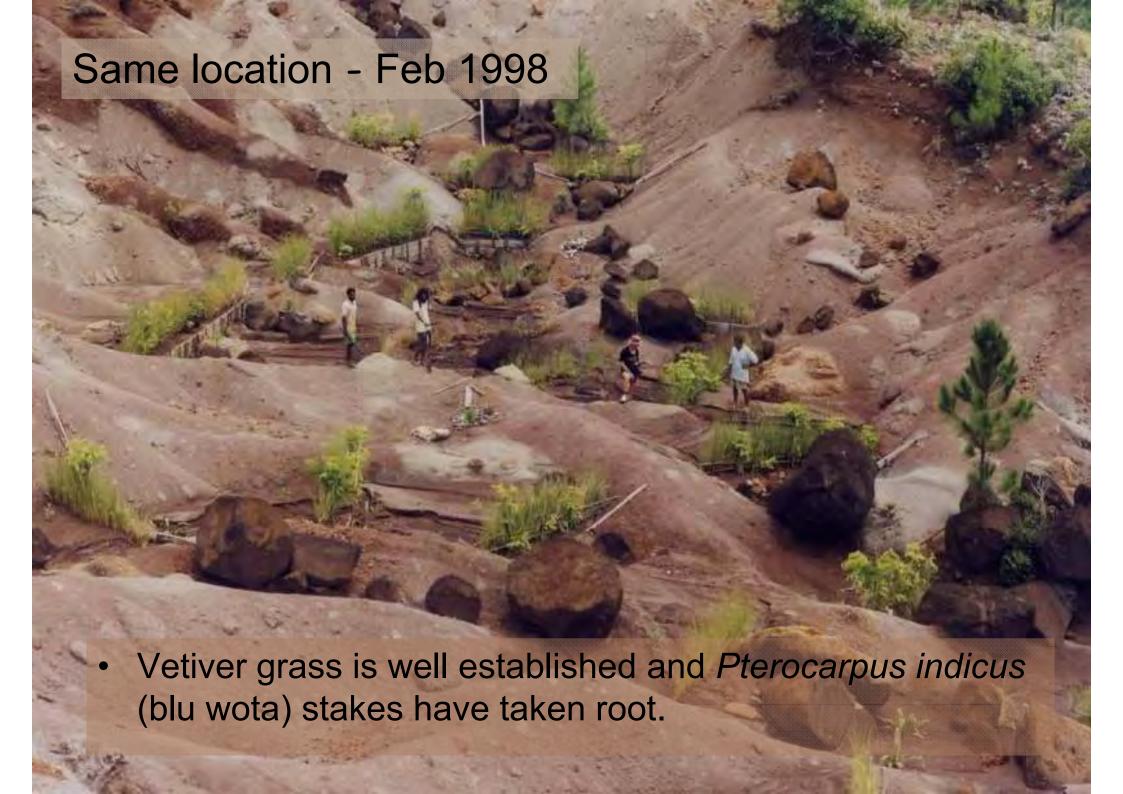






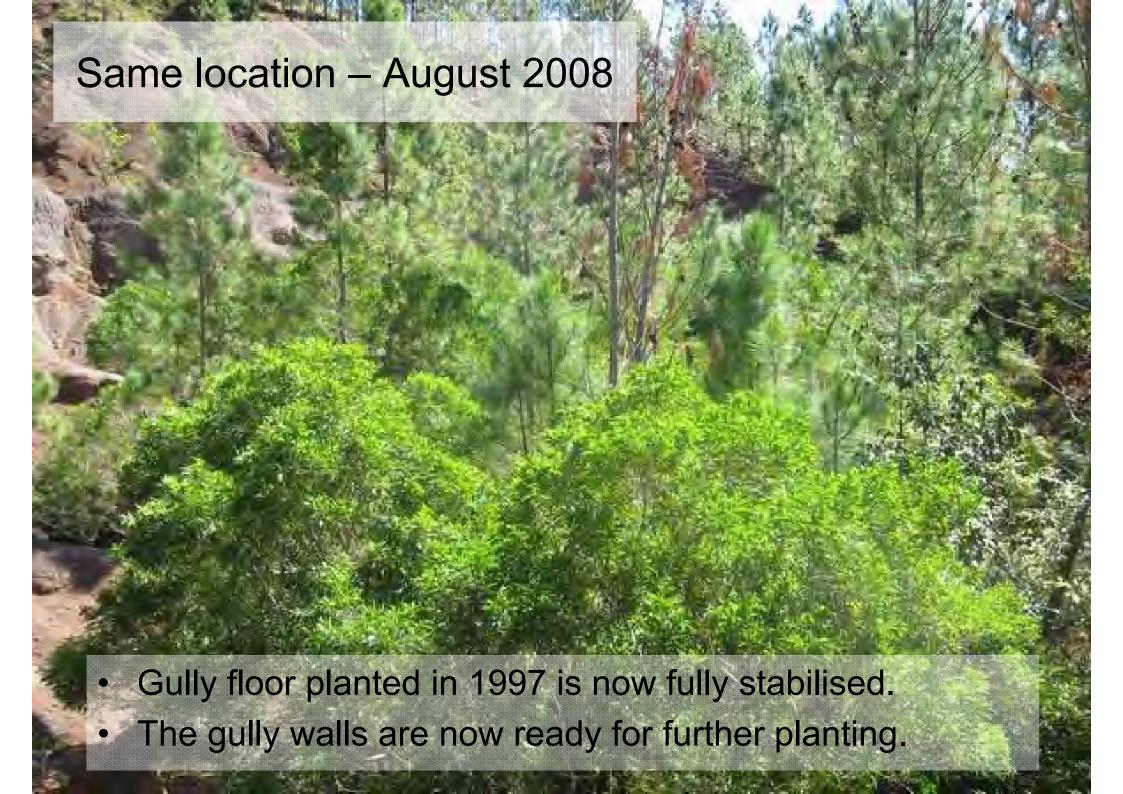




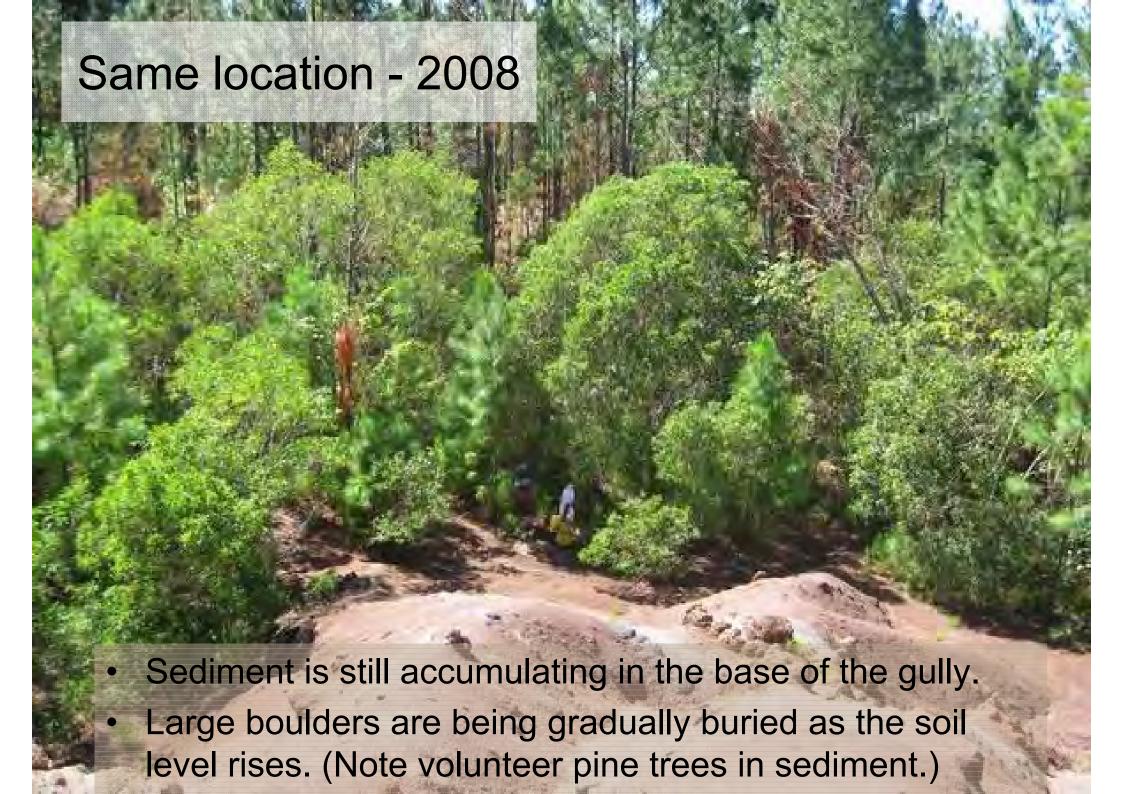


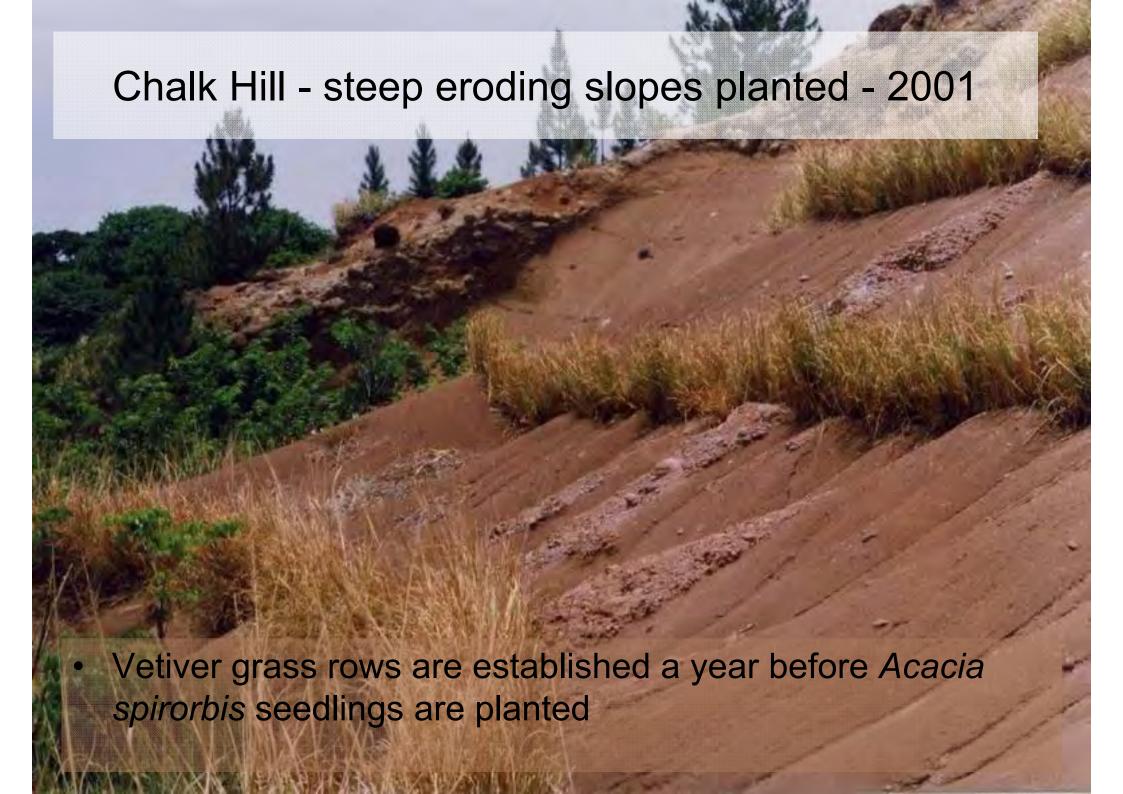


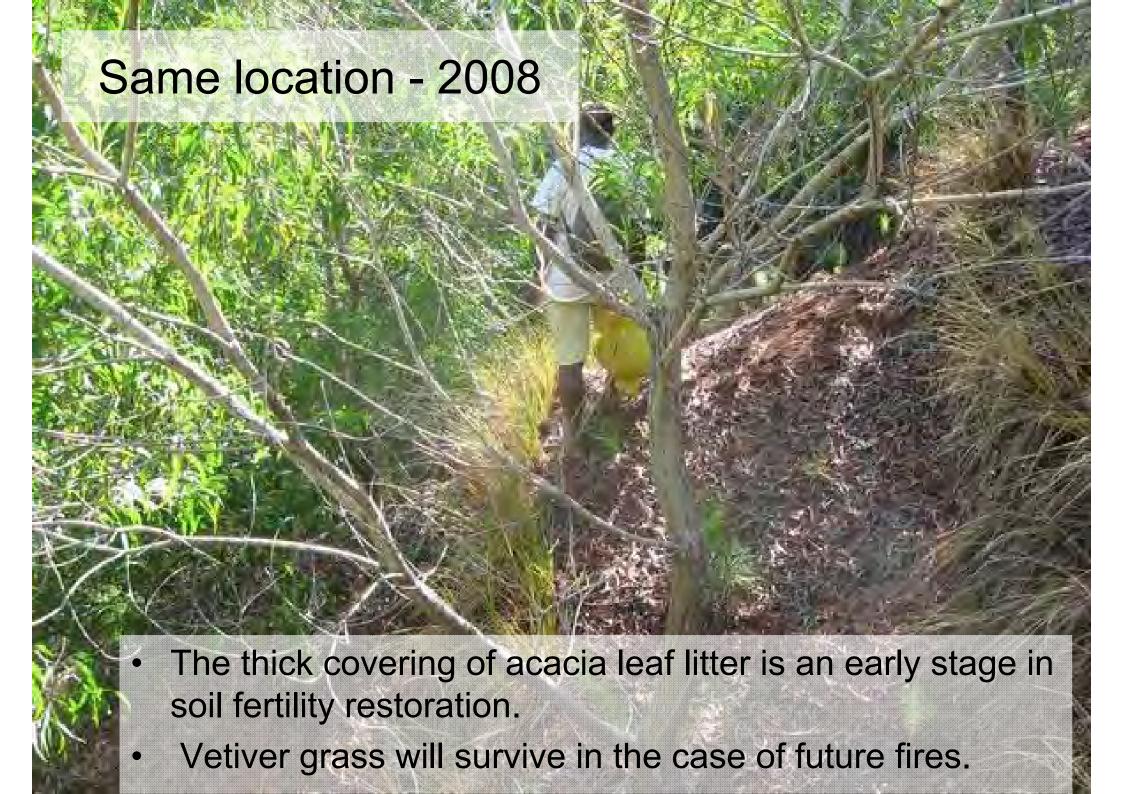


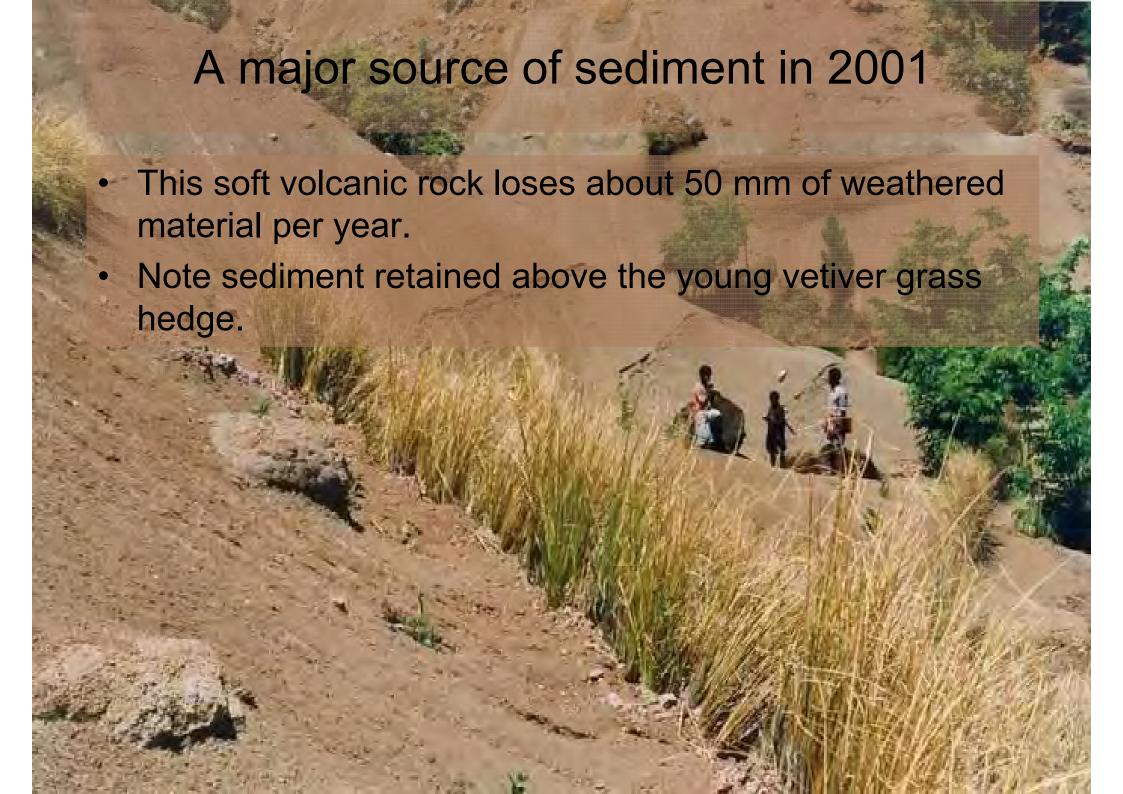


















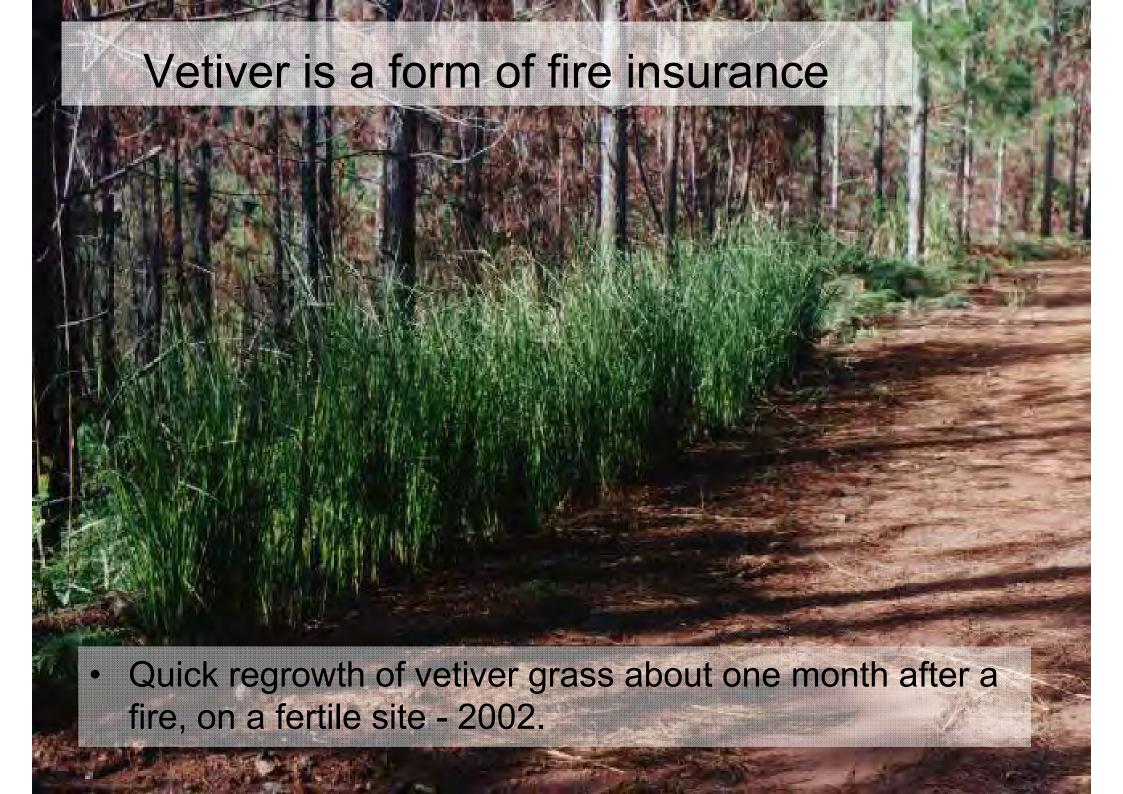


Fire Issues

(Same site as previous slide - an earlier 2002 photo)

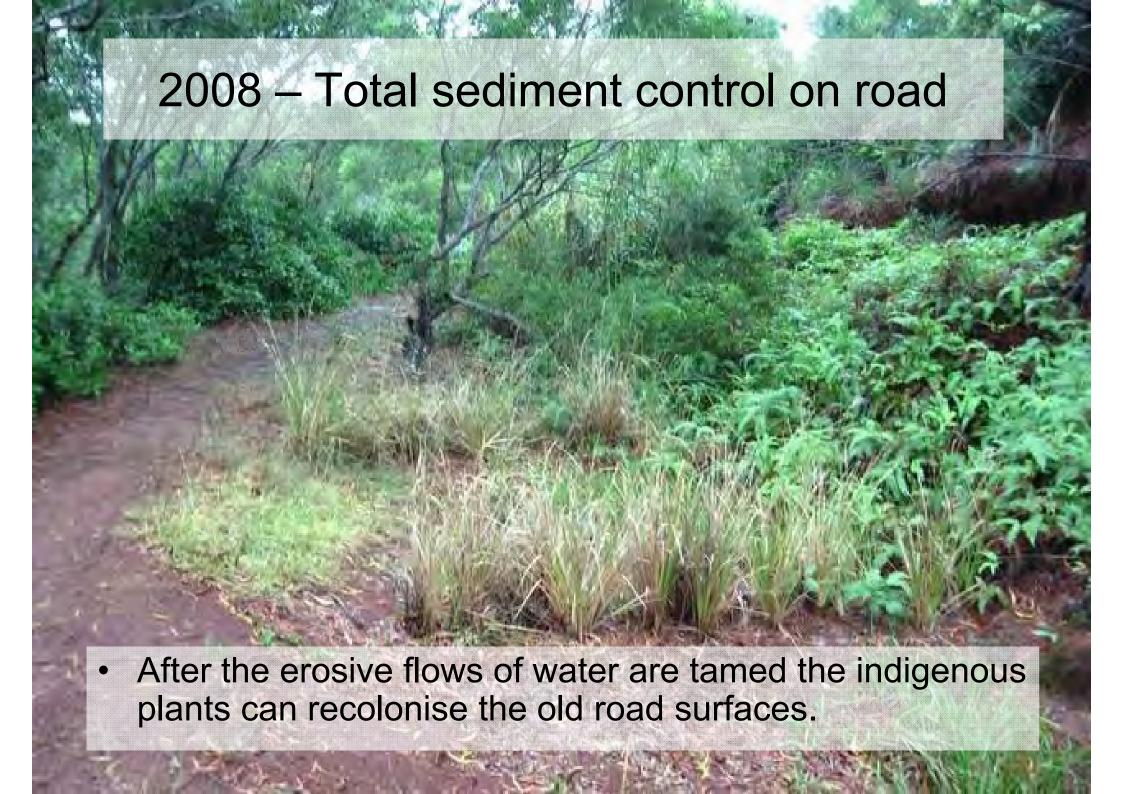


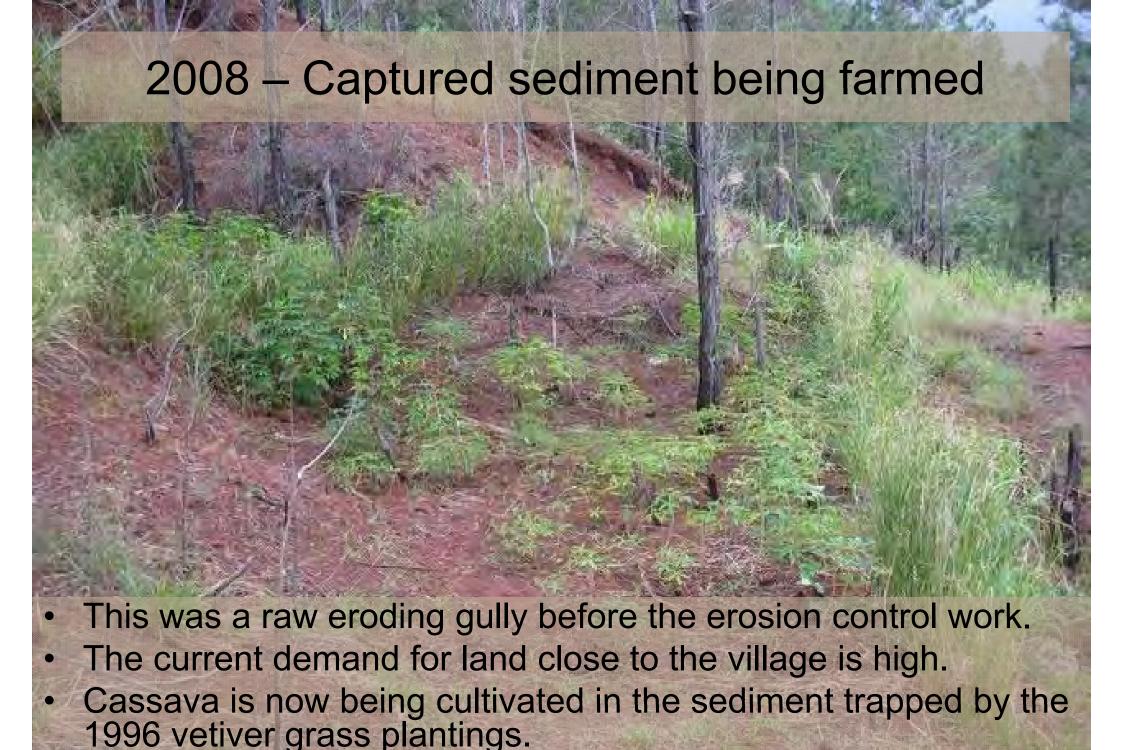
- Uncontrolled fires are a constant problem
- Vetiver grass recovers within weeks of fire.
- If trees are lost there will be natural regeneration in the trapped soil













- It has no fertile seeds and must be multiplied by vegetative means
- It was introduced to this island of Aneityum in about 1912 and has not spread at all despite widespread early planting
- It will grow in very infertile soil
- Its stems and leaves filter out and trap sediment
- It resists grazing by animals

Vetiver can have a massive root system

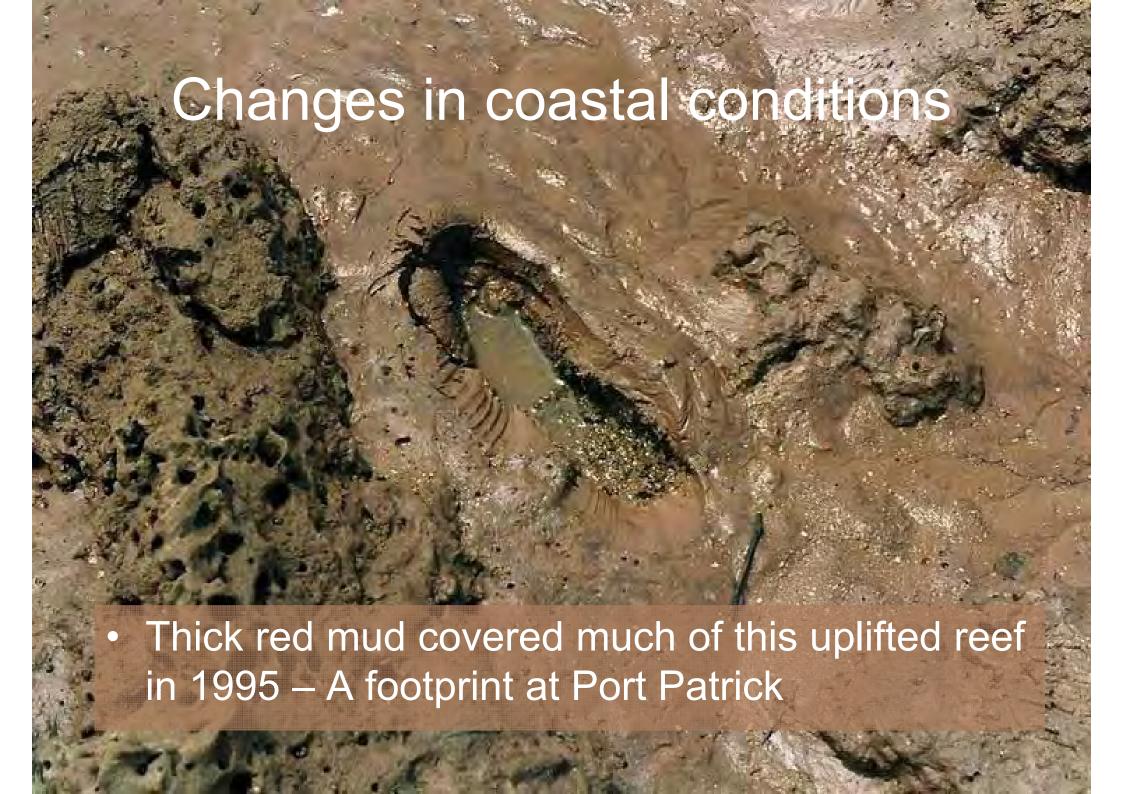
In deep soils root depths of 2 metres are common.

These roots allow the grass to survive drought and resist scour in stream channels.





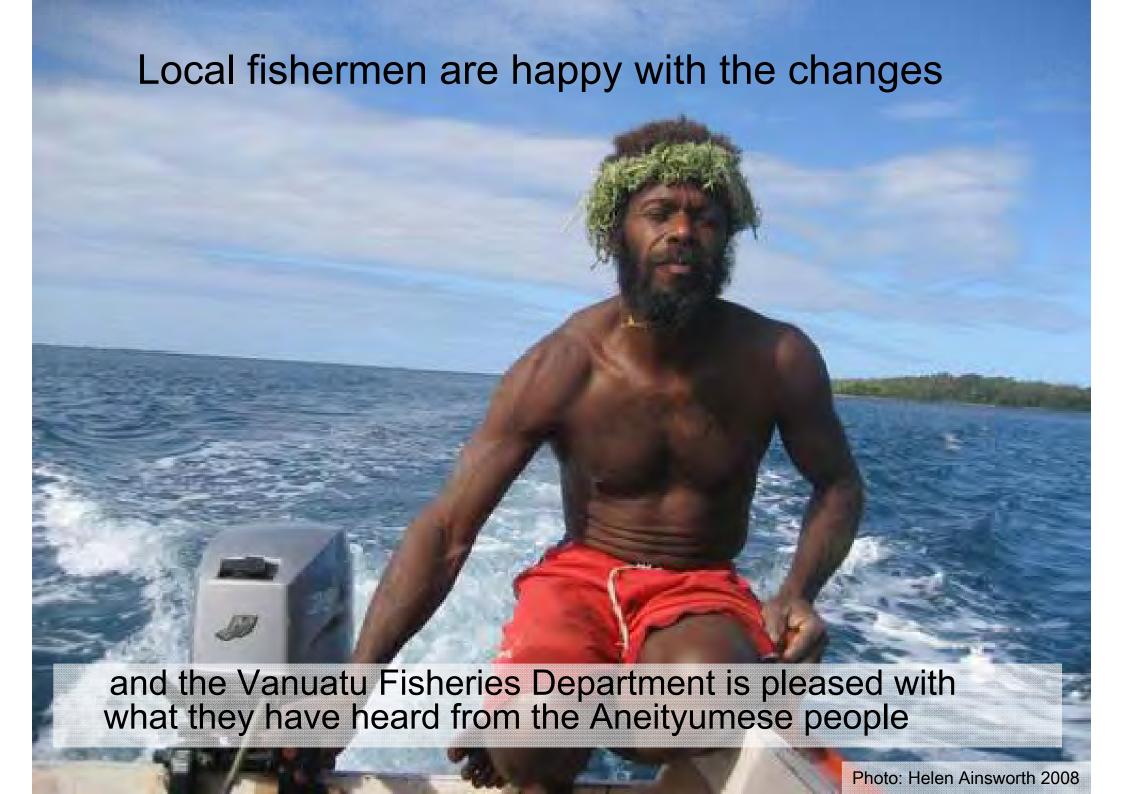










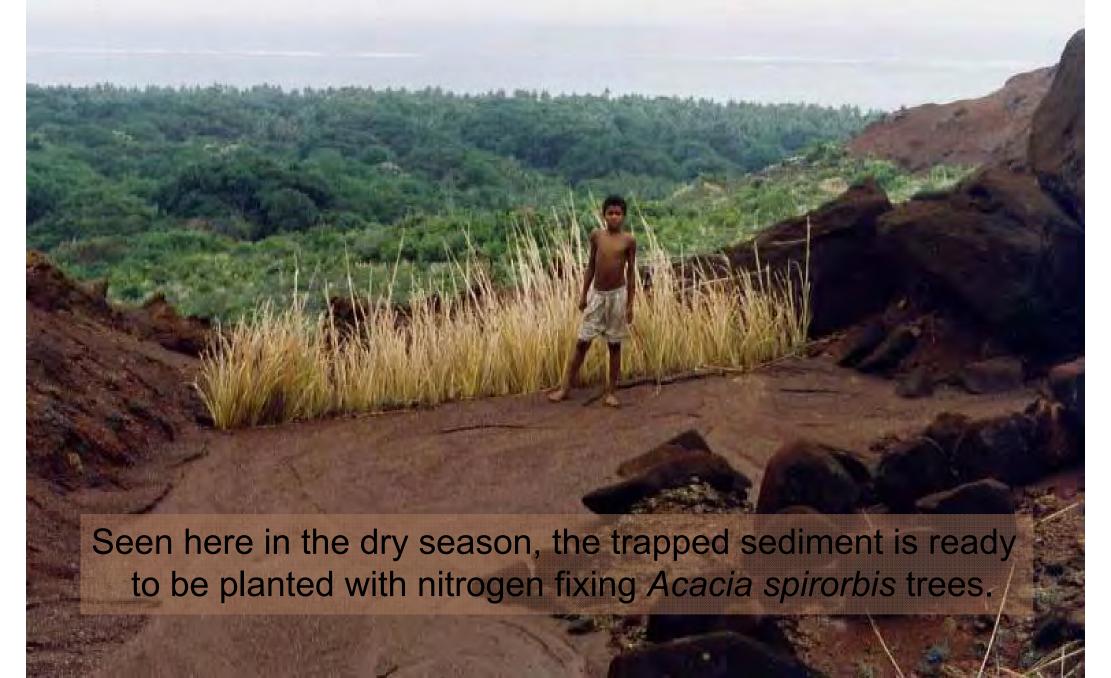


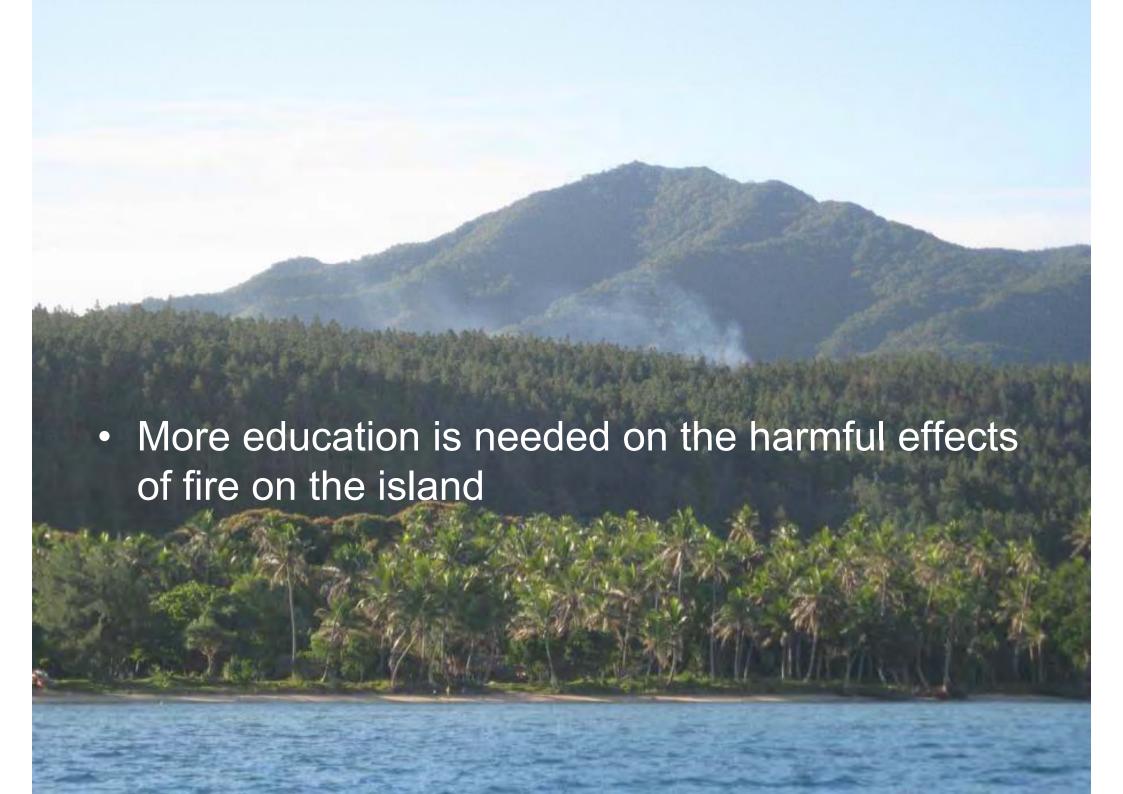




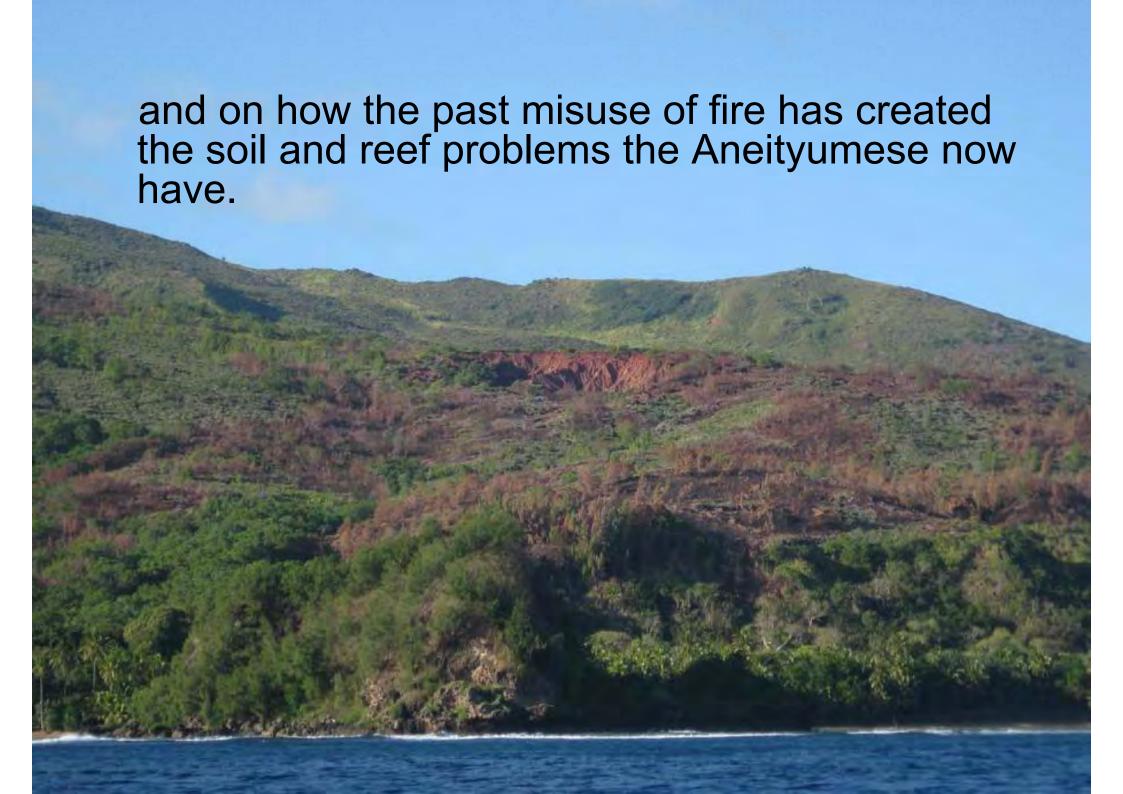


More of this work is needed









Reef Health Monitoring

- With a fast growing population Aneityum needs local protein sources such as these goat fish.
- A healthy reef system is essential
- The Fisheries Department, in association with Peace Corps, are already monitoring coral reefs on Aneityum
- They are keen to monitor the impact of any future soil erosion control work there.

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- The results of this project reflect the dedication and effort of the small band of workers who carried on with minimal supervision for 7 years, growing many thousands of plants, carrying heavy sacks of grass and trees to remote sites and wearing out numerous taro spades. These include Henry Kathecau, Henry Naumu, David, Lauthep, Peter and the many other men and women who pitched in and helped make a difference to their island's future. Thanks team.
- Grateful thanks to my consulting partner, Nick Lambrechtsen, who
 provided huge support by handling the paper war in New Zealand.
- Thanks also to the NZ Ministry of Foreign Affairs and Trade NZAID for their considerable financial support over the 8 years of the project.

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