## Good News on and from the Amazon Rainforest

Contributed by James Painter, Jens Glüsing 20 August 2009

In Bolivia, ancient farming methods in the Amazon rainforest are being revisited. As Charles Mann demonstrated in his book 1491, the Amazon "jungle" was actually a managed food forest -- still there, although degraded. Terra preta, or biochar, worked for centuries and still has promise. The BBC reports that people are relearning to embrace the annual floods by using a centuries-old irrigation system for their crops.

Der Spiegel reports that there's new tree growth for the Amazon rainforest, as vegetation makes a comeback on abandoned agricultural land. This doesn't mean that old growth forests don't have to be protected, nor does it mean forests can always come back. See below for details.

Author Albert Bates, a favorite columnist for Culture Change readers, has returned from an expedition from Brazil where he went to learn about sustainability -- but he no doubt passed along a lot of his considerable knowledge as well. We will pass along his report when we get it, but meanwhile check out the course commencing next week at the Ecovillage Training Center which he manages:

Tennessee Carbon Farming Intensive. The course in more detail:

Broadacre Permaculture & Holistic Management for Carbon Negative Agriculture

Exploring Soil, Water, Carbon, Energy & the Economy through a 6-part holistic curriculum

August 25th- September 16th, 2009, Ecovillage Training Center at the Farm in Summertown, TN.

Bolivians look to ancient farming

The project may help to cut down on the need to clear forests

By James Painter

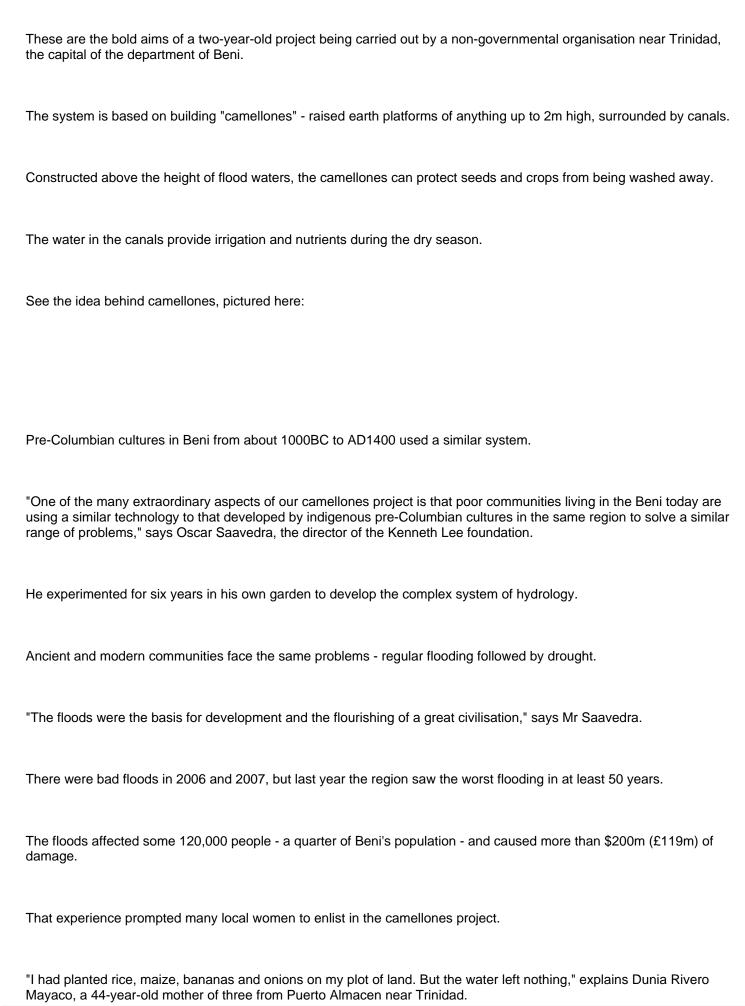
Aug. 18, 2009

BBC News, Trinidad, Bolivia

Poor farmers in the heart of Bolivia's Amazon are being encouraged to embrace the annual floods - by using a centuriesold irrigation system for their crops.

They are experimenting with a sustainable way of growing food crops that their ancestors used.

It could provide them with better protection against the extremes of climate change, reduce deforestation, improve food security and even promise a better diet.



"I lost my house too. We had to live three months in temporary accommodation on the main road. The children got ill there.
"So that's why I am working here on the camellones. I didn't want to lose everything again."
The canals remain full after the floods recede
About 400 families are now enrolled in the project in five locations, growing mainly maize, cassava and rice.
Many of the sites are still in an experimental phase, but the early signs are promising. Productivity appears to be on the increase.
"These camellones will help us when the floods come," says Maira Salas from the village of Copacabana, a 20-minute boat ride down the river Ibare.
"Crops like bananas that die easily have a better chance of survival. We are only just now learning how our ancestors lived and survived.
"They did not have tractors to build the camellones, and they survived for years. It's incredible."
Villagers are encouraged to embrace the floods and see them as a blessing, not a curse.
During the rainy season, large expanses of land in Beni are under water for several months - except for the raised areas.
When the water recedes into the tributaries that run into the Amazon, it takes nutrients with it leaving a sandy brown soil in which it is difficult to grow crops.
But in the camellones project, the water left by the floods is harnessed to bring fertility to the soil and irrigation during times of drought.
In short, from being victims of the floods, poor people could become masters by turning the excess water to their advantage.
Extreme weather events

International charity Oxfam is supporting the project in part because it offers poor people the possibility of adapting to climate change.

If, as predicted by many experts, the cycles of El Nino/La Nina are going to increase in intensity and frequency, then the project has the capacity to help poor families cope better with the extreme weather events and unpredictable rainfall that are to come.

"It should not matter when the rains come as the water can still be managed at whatever time of the year," says Mr Saavedra.

Other potential advantages of the scheme include:

- \* The system uses natural fertilizers, and in particular an aquatic plant in the canals called tarope which both purifies the water and acts as a fertilizer when spread over the soil
- \* The canals can also provide fish stock, animal fodder and nutrients for the soil
- \* The camellones can act as a natural seed bank which can survive flooding
- \* The system can reduce the need to cut down the forested areas around the communities. This is because the soil on traditional plots of land is often exhausted after two to three years. This forces the farmers to clear more land for planting by cutting down the forest.

All this seems too good to be true.

Some of the women say the real test will come when there is a bad year of flooding or a severe drought. So far, 2009 has not been one of the worst.

There are other huge challenges ahead. One is to try to provide the families with an income from tomatoes or garden produce.

Another is to overcome the scepticism from some local people about the time and physical effort invested in the camellones compared to other sources of local employment.

Mr Saavedra is convinced the camellones project can be expanded, even to other countries.

"This process could be repeated in various parts of the world with similar conditions to the Beni like parts of Bangladesh, India and China.

"It could help to reduce world hunger and combat climate change," he says.

bbc.co.uk
Tropical Comeback
Can New Growth Save the Amazon Rainforest?
By Jens Glüsing
08/13/2009
Der Spiegel
Is the Amazon rainforest recovering? New studies suggest that the long-term consequences of deforestation may not be as bad as predicted, as vegetation makes a comeback on abandoned agricultural land.
Felipe Garcia's shack backs up against a wall of forest. "My neighbors abandoned their farm seven years ago," says Garcia, a farmer. "Now the jungle has taken over their property once again." He strokes his round belly, and says: "And if I don't till my field, it'll look the same way in a few years."
article in spiegel.de
Photos in spiegel.de
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