Precolombian Fish Farming in the Amazon

Popular images associated with the Amazon today include the towering continuous green forest canopy, Day-Glo poison dart frogs, and native faces painted red. These potent images have been used to raise funds for conservation, educate the public in "green" politics, and promote ecotourism. Two themes have long dominated the popular and scientific literature on the Amazon: the Myth of the Pristine Environment, and the Myth of the Noble Savage. My research team has studied the vast networks of earthworks in the Bolivian Amazon built before the arrival of Europeans. These features include causeways of earth, artificial canals for canoe traffic, raised fields for growing crops in the savannas, and settlement mounds of urban scale.

In 1995, we were invited by the local governor to begin archaeological investigations in Baures, a remote region of seasonally flooded savannas, wetlands, and forest islands in northeast Bolivia. He loaned us his Cessna and pilot for an initial aerial survey of the region. As the plane circled the landscape, we saw an amazing web of straight roads, canals, and moated earthwork enclosures below. During the dry season of 1996, I surveyed the area accompanied by a group of local hunters (Fig. 1).

One artificial feature, referred to as a zigzag earthwork, particularly intrigued me. Low earthen walls zigzag across the savannas between forest islands (Fig. 2). Because of their changing orientations, they did not make sense as roads between settlements. As we mapped them with tape measure and compass, I noted that there were small funnel-like openings where the earthworks changed direction. I immediately realized that these matched the de-

![Fig. 1. Archaeologist Clark Erickson (far right) with local guides in Baures, Bolivia.](image)
associated with the weirs (Fig. 3). Today these ponds fill with fish as the floodwaters recede in the dry season. I believe that in the past these were used to store live fish until needed. Our studies show that the weirs were used before the arrival of Europeans to the region.

The scale of the fish weir complex is larger than any previously reported. The native peoples of Baures shaped the environment into a productive landscape capable of providing sufficient protein to sustain large populations. The people responsible for this impressive land management are long gone or have forgotten the technology. Archaeology provides the only means of documenting this important lost knowledge. As politicians, conservationists, and aid agencies seek sustainable solutions to both develop and conserve the Amazon, archaeologists can play a key role by providing time-tested models of land use.

Clark L. Erickson
Associate Curator, American Section
Assoc. Professor of Anthropology

BIBLIOGRAPHY

Erickson, Clark L.


Web Site “An Artificial Landscape-Scale Fishery in the Bolivian Amazon.”
http://ccat.sas.upenn.edu/fishweir/