



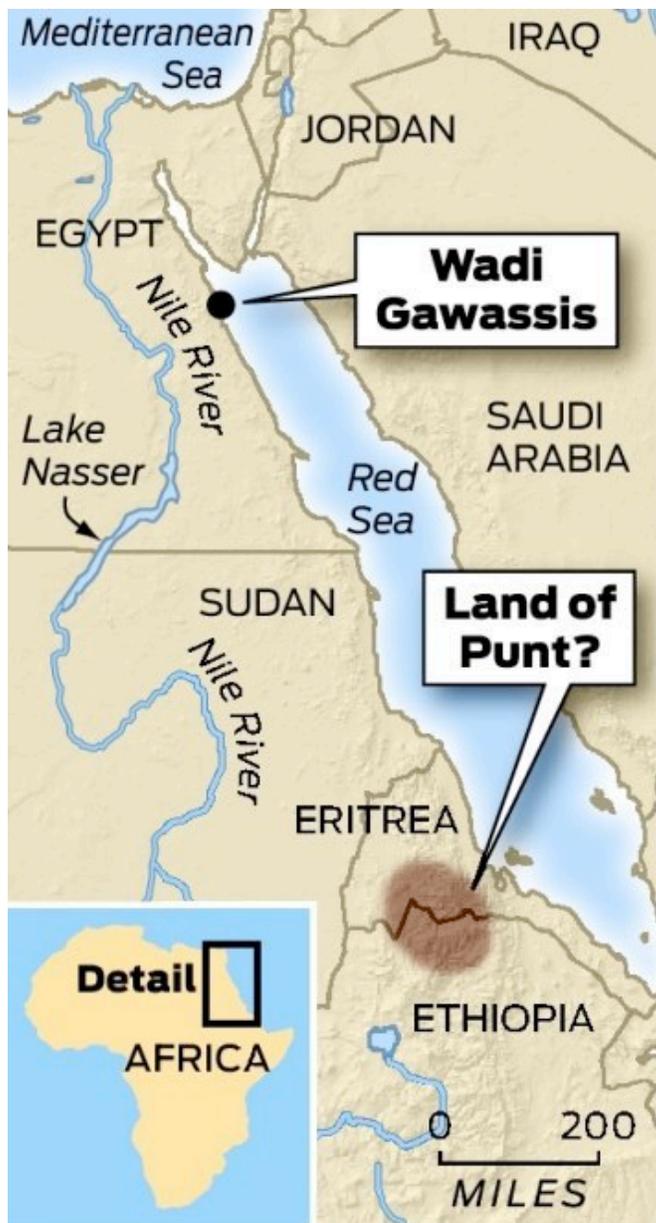
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# Scientists zero in on ancient Land of Punt

May 08, 2010 | By David Perlman, Chronicle Science Editor



John Blanchard / The Chronicle



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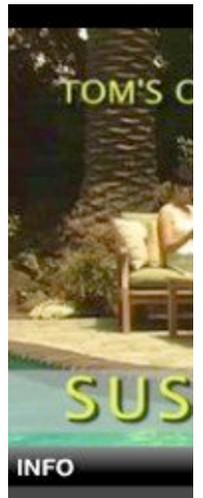
Thousands of years ago, there once stood a place called Punt, a land of gold and ebony, and ivory, frankincense and myrrh.

To the pharaohs who built their palaces along the Nile, the Land of Punt was the source of great treasure. Among the most prized were Punt's leopards and baboons, which they viewed as sacred and took as royal pets.

The pharaohs sent great expeditions to Punt; they welcomed delegations of Puntites to their palaces, and their scribes recorded their gifts and commercial products in detail.

But not one of the Egyptian scribes who wrote about the strange land - Ta netjer, or God's Land, as it was sometimes called - ever revealed exactly where it lay.

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The riddle was left to modern-day scholars to solve.

Now researchers armed with the sophisticated tools of modern physics have tackled the problem and declared that while they still can't tell exactly where Punt *was*, they do know where it *wasn't*.

Disputes over Punt's location have gone on for decades. Punt (pronounced Poont), archaeologists have said, was in Mozambique, or Somalia; or on the Sinai Peninsula or in Yemen, or somewhere in Western Asia where Israel, Lebanon and Syria now lie.

Narrowing the search

At a recent meeting in Oakland of the American Research Center in Egypt three scientists announced with confidence they had ruled out all of those five locations, and there was no disagreement from the 300 archaeologists there.

The Land of Punt, the scientist said, must have existed in eastern North Africa - either in the region where Ethiopia and Eritrea confront each other, or east of the Upper Nile in a lowland area of eastern Sudan.

The three experts, all specialists in arcane disciplines, were:

-- Nathaniel J. Dominy, a UC Santa Cruz anthropologist and primate ecologist who studies the lives and habitats of apes, baboons and other monkeys, as well as human evolution;

-- Gillian Leigh Moritz, a specialist in manipulating the mass spectrometer in Dominy's laboratory to analyze the stable isotopes of oxygen and other elements;

-- Kathryn A. Bard, a Boston University Egyptologist who for nearly 10 years has been excavating the ancient Red Sea harbor of Wadi Gawassis, where royal sailing expeditions were sent to Punt and returned with precious cargo.

The key to solving the mystery of Punt was Dominy's intimate knowledge of baboon geography - there are five species of the animals, and Dominy can identify the African regions where each one has its specialized habitat. He also knows the characteristics of the body tissue of each species.

"We used baboons as a lens to solve the Punt problem," he said. "They were among the most important commodities brought back to the pharaohs from Punt, but until now no one has known where those baboons came from."

The British Museum in London's collection of Egyptian antiquities holds two mummified baboons that were once gifts from Punt to the pharaohs, and although museum officials would not allow Dominy to drill into the mummies for bone samples to analyze their DNA, he was allowed to snip a few precious hairs from the baboons for Moritz to work on.

Clues in the water

Despite their age, those hairs still contained trace molecules of the water the animals drank when alive, and Moritz could analyze that water to determine the ratio of two oxygen isotopes in the hairs.

It's a complicated bit of chemistry, but every oxygen atom is made up of three different stable isotopes - their atomic masses - and the ratio between two of them, oxygen-16 and oxygen-18, varies significantly in the rainfall and humidity from one part of the world to another, even from different parts of a continent.

Moritz used her mass spectrometer in the Dominy lab to determine the oxygen isotope ratios in the hairs of each mummified baboon, and compared them with the ratios in all five species of baboons living in varied parts of Africa today.

"The results of the mass spectrometer showed us that the region of Ethiopia and Eritrea was the place to look for Punt," she said.

Bard, the Boston University Egyptologist, said the findings are convincing and make Punt more real than ever, but she suggests that the land might also have existed in a similar nearby baboon region - perhaps in eastern Sudan.

#### Remains of ships

The ancient harbor on the Red Sea where Bard is excavating is called Mersa/Wadi Gawassis, and Bard's excavations have yielded well-preserved ship's timbers, anchors, coils of ancient rope, and the rigging of seagoing ships that date from the reigns of several Pharaonic dynasties.

From that port, a pharaoh named Amenhotep IV sent a major expedition to Punt some 3,800 years ago during the eighth year of his reign, Bard and her colleagues have discovered.

"We've made a wonderful find there," Bard said. "It was really amazing - 40 cargo boxes from the ship, and some were inscribed with the name of that very king, the name of the scribe, and the inscribed words, 'wonderful things from Punt.' "

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