

PICTURE STORY BY LOREN
MCINTYRE


RULER STRAIGHT and tack sharp, a curious marking more than a mile long etches the desert in southern Peru. Wandering mule paths that cross it only emphasize the precision of its design.

Throughout hundreds of square miles of arid plateau, other markings abound, most of them concentrated between the towns of Nazca and Palpa. Known as the Nazca Lines, they form a geometrical mélange of quadrangles, triangles, and trapezoids; spirals and flowers; narrow lines that extend more than five miles; and a desert zoo of giant creatures-birds, reptiles, and whales, a monkey and a spider.

Because some of the figures resemble those decorating Nazca pottery, archeologists attribute the lines to the Nazcas, a coastal people whose culture rose, flourished, and declined between-roughly speaking- 100 B.C. and A.D. 700

Making the marks must have been simple enough, though time-consuming. Clear away a few million rocks to expose the lighter ground beneath them, pile the rocks in rows, and you have designs that, in this nearly rainless region, can last thousands of years.

But why did the ancients construct them? Nobody really knows. There have been many guesses- that they were prehistoric roads, farms, or some form of signals or offerings to celestial beings.

Dr. Paul Kosok, the first scholar to study the markings after they were first recognized from the air in the late 1920's, speculated that they constituted a giant astronomical calendar, an almanac for farmers anxious to predict the return of water to valley streams.

A 1968 study, financed partly by the National Geographic Society, ascertained that some of the lines do indeed point to solstice positions of the sun and moon in ancient times, as well as to the rising and setting points on the horizon of some of the brighter stars. But, the study indicates, no more than could be expected by chance.

And so the mystery remains, including the most tantalizing question of all: Why did the Nazcas create immense designs that they themselves could never see, designs that can be seen only from the air?


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FOR MORE THAN 25 YEARS Maria Reiche has photorraphed and charted las lineas, striving to complete a map of the hundreds of designs and figures that score a tableland some 30 miles long, threaded by the Pan American Highway (map, upper left). A National Geographic Society grant now aids her work.

At her desk in Lima (left), the Germanborn mathematician glances up from a chart, where azimuths of lines dart off in almost all the directions of the compass. During fieldwork Miss Reiche sleeps on a camp cot behind her car on the rocky, grassless Pertuvian "pampa," rising before first light for a breakfast of grapefruit and canned milk. Despite her 72 years, she then sets to work with a zeal as relentless as the noonday sun.
With the recl of tape in ber left hand, she has just completed measuring one of the sides of a trapezoidal field (right) Scen from the air (above), it nepotiates a hillock, then branches off octopuslike over the pampa.

Miss Reiche scorns the suggestion that such markings may have been airfields for outer-space visitors to earth in prehistoric times. "Once you remove the stones, the ground is quite soft," she says. "I'm afraid the spacemen would lave gotten stuck."


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AS IF DESIGNED AND DRAWN by a mad geometrician, markings great and small litter the pampa in configurations that defy explanation. They sometimes ignore topography as well.
Trapezoids congregate on a platcau that overlooks the Ingenio Valley (above). Others march up-or is it down?-the slopes of an old wash beside farmers' fields (right), accompanied by platoons of lines that appear to go nowhere. The looped pattern below them lacks the precision of
many ancient lines and may be the remains of an irrigation system.
"Throughout the pampa," says Miss Reiche, "lines stretch for miles, crossing valleys and traversing hills, never swerving from their courses. Surveyors have been astonished by their straightness."
How did the Nazcas achieve such exactitude? Along some lines the remains of posis have been found at intervals approaching a mile. Perhaps sighting stations with men standing in line behind them? Perhaps.




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ONGER than a football field and completely visible only from the air, a monkey (left) leans to grasp--nothing Its left hand measures more than 40 feet across (right). Miss Reiche stands within the whorled furrows that comprise its tail (above).
The figure looks like any of several monkeys-woolly, spider, or capuchin-that live in tropical forests on the cast slopes of the Andes, some 200 miles distant. But Nazca artists, who probably learned of these monkeys through trade contacts with forest peoples, weren't always accurate in anatomical detail. They gave their monkey four fingers on one hand, five on the other, and a prehensile tail that curves up instead of down.




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 ESERT AVIARY contains 18 bird figures, including that of a hummingbird (left), an apparent duckling (right), and a sea bird almost 450 feet long (below), whose beak is only partly shown."We can't be sure what their meaning was, but we can be sure they had meaning," says art historian Alan Sawyer. "Most figures are composed of a single line that never crosses itself, perhaps the path of a ritual maze. If so, when the Nazcas walked the line, they could have felt they were absorbing the essence of whatever the drawing symbolized."


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