

5/11/90

SECRET/NOFORN *3*

PROJECT SUN STREAK

WARNING NOTICE: INTELLIGENCE SOURCES AND METHODS INVOLVED

PROJECT NUMBER:	0762 (Tng)	SESSION NUMBER:	1
DATE OF SESSION:	01 MAR 90	DATE OF REPORT:	05 MAR 90
START:	1407	END:	1428
METHODOLOGY:	CRV	VIEWER IDENTIFIER:	052

1. (S/STD) MISSION: To describe the target site (The Nazca lines, Peru) in Stage 2 terminology.
2. (S/STD) VIEWER TASKING: Encrypted coordinates only.
3. (S/STD) COMMENTS: No Physical Inclemencies. 052 had many accurate perceptions of the site and no discernable incorrect ones. Stage 1 gestalts included "water" (which is not at the site), but there appears to be something at this site which drives that gestalt, as it is a common mistake to this site. 052 at one point perceived "grapes". Post session feedback found that the original pages include a page from another article on Italian grapes. Post session discussion included "viewing the site, not the feedback package", and an overview of how to break oneself from the habit. 052 also wondered about an impression of a distorted hand (shown on page 723 in the feedback), which registered, but did not drive the desire to write it down. Again, stress was placed on writing down everything.
4. (S/STD) EVALUATION:
5. (S/STD) SEARCH EVALUATION: N/A

MONITOR: 018

HANDLE VIA STIPPLE CHANNELS ONLY

SECRET/NOFORN

CLASSIFIED BY: DIA (DT)
DECLASSIFY: OADR

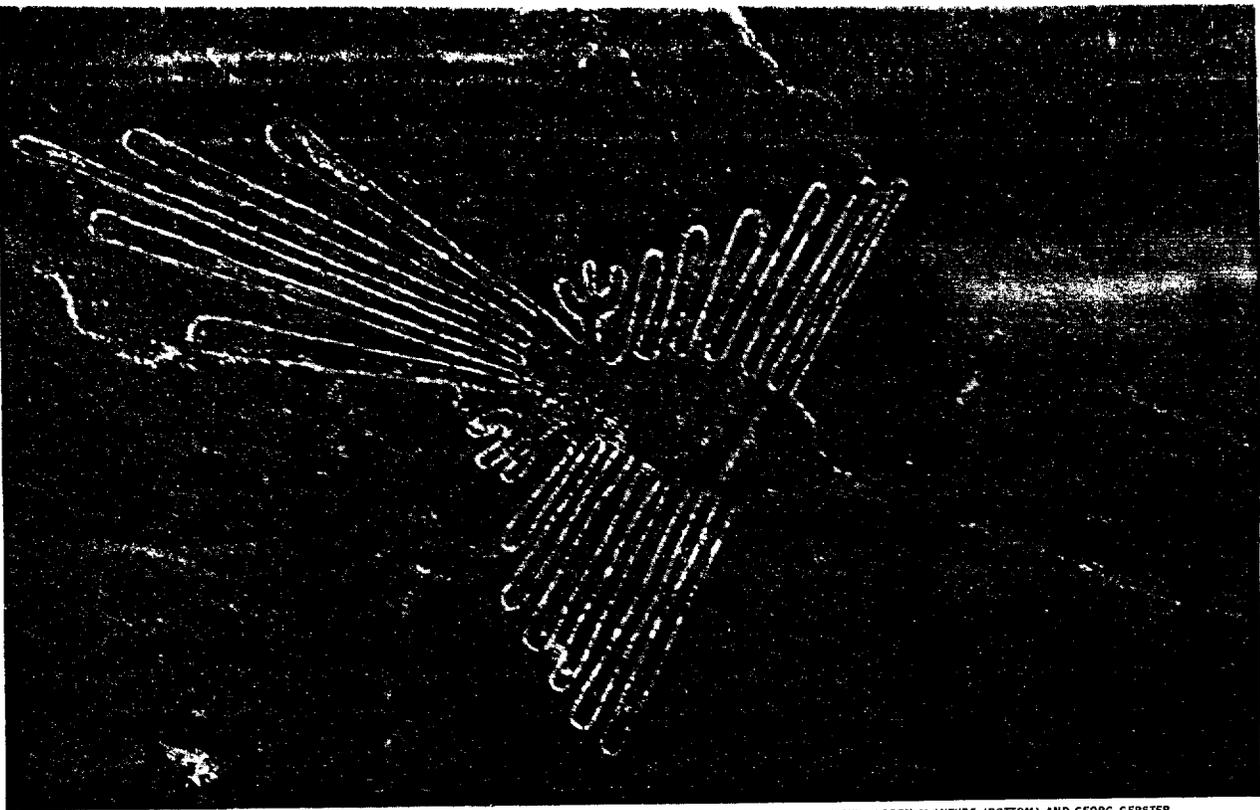
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SERVICIO AEROFOTOGRAFICO NACIONAL (ABOVE AND BELOW); LOREN MCINTYRE (BOTTOM) AND GEORG GERSTER

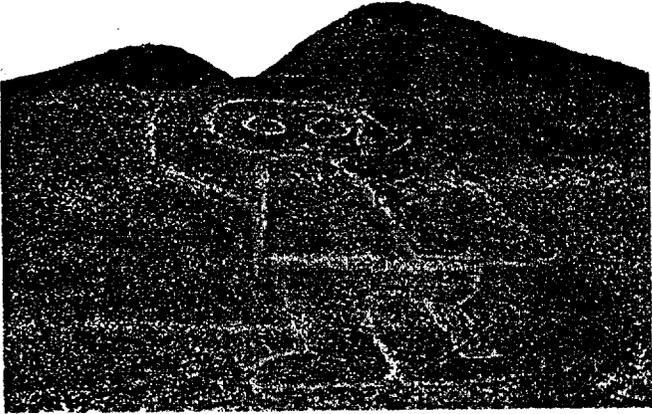
ON THE PAMPA FLOOR birds fly, whales swim, and other creatures crawl and creep. Many of their forms closely resemble the figures on Nazca pots.

Ceramic representation of a killer whale (below), created near the end of the third century A.D., shares the sinuous form of a figure scribed in the desert (right). Stylized human heads, trophies of a Nazca head-hunting cult, band the side of the



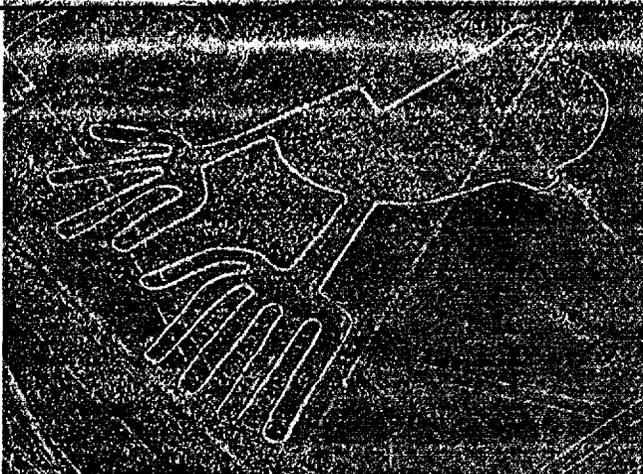
potter's whale. Other pots render a head dangling below the whale's body, as the drawing does.

A few of the figures have been identified as pre-Nazca. Miss Reiche walks the outline of a wide-eyed hillside figure (right). Pottery and textile similarities link it with the Nazcas' immediate predecessors, people of the Paracas culture.

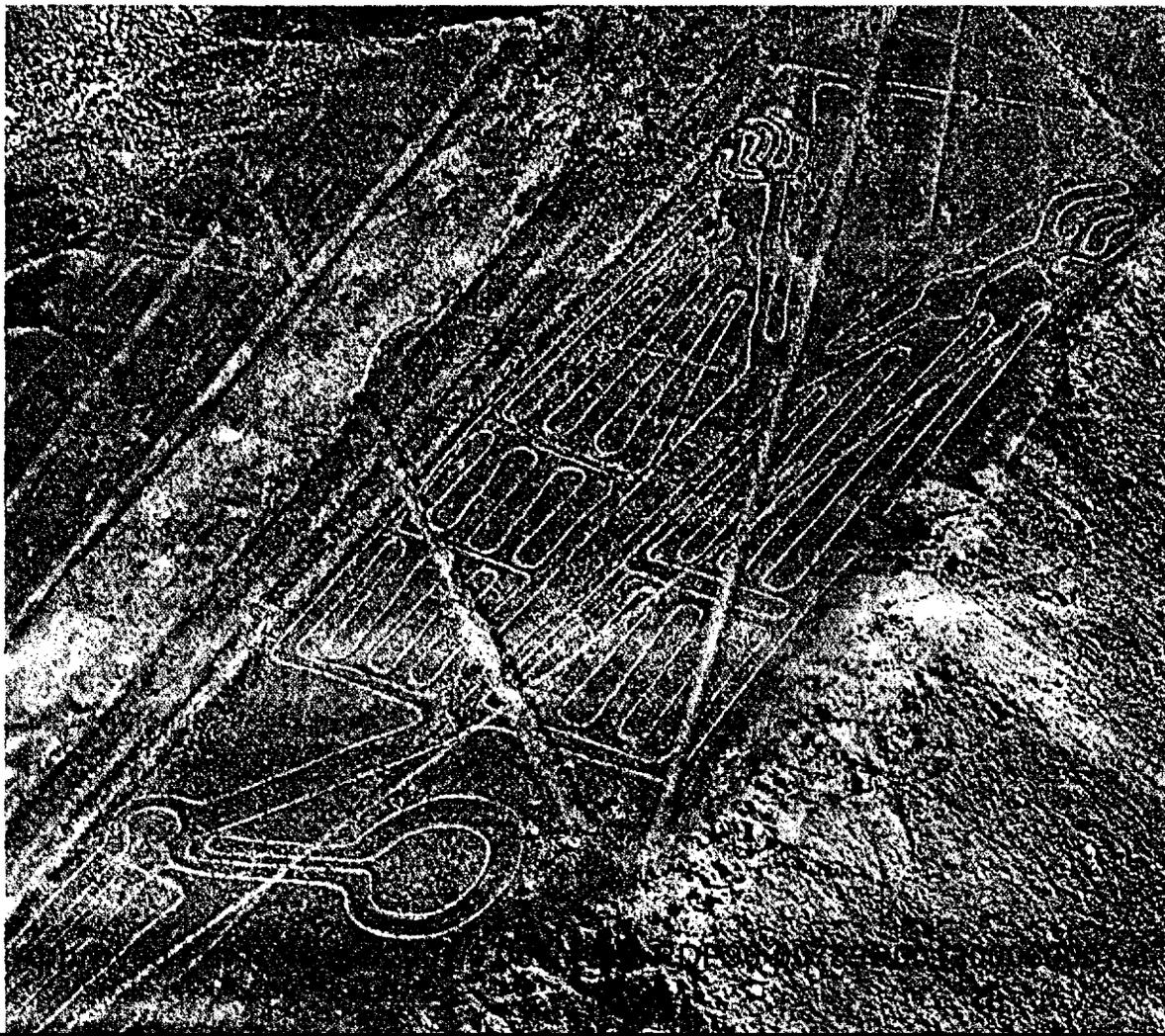


DESERT AVIARY contains 18 bird figures, including that of a hummingbird (left), an apparent duckling (right), and a sea bird almost 450 feet long (below), whose beak is only partly shown.

"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."



BOTH BY GEORG GERSTER



CRAFTED with uncommon care, the Nazca Lines remained much as their makers made them. For perhaps two thousand years a spider 150 feet long lay clearly in the sand, its outline almost undisturbed in a photograph taken in 1963 (right). Now it bears the scars of dune buggies, jeeps, and sightseers on foot (below). A similar fate threatens many of the markings.

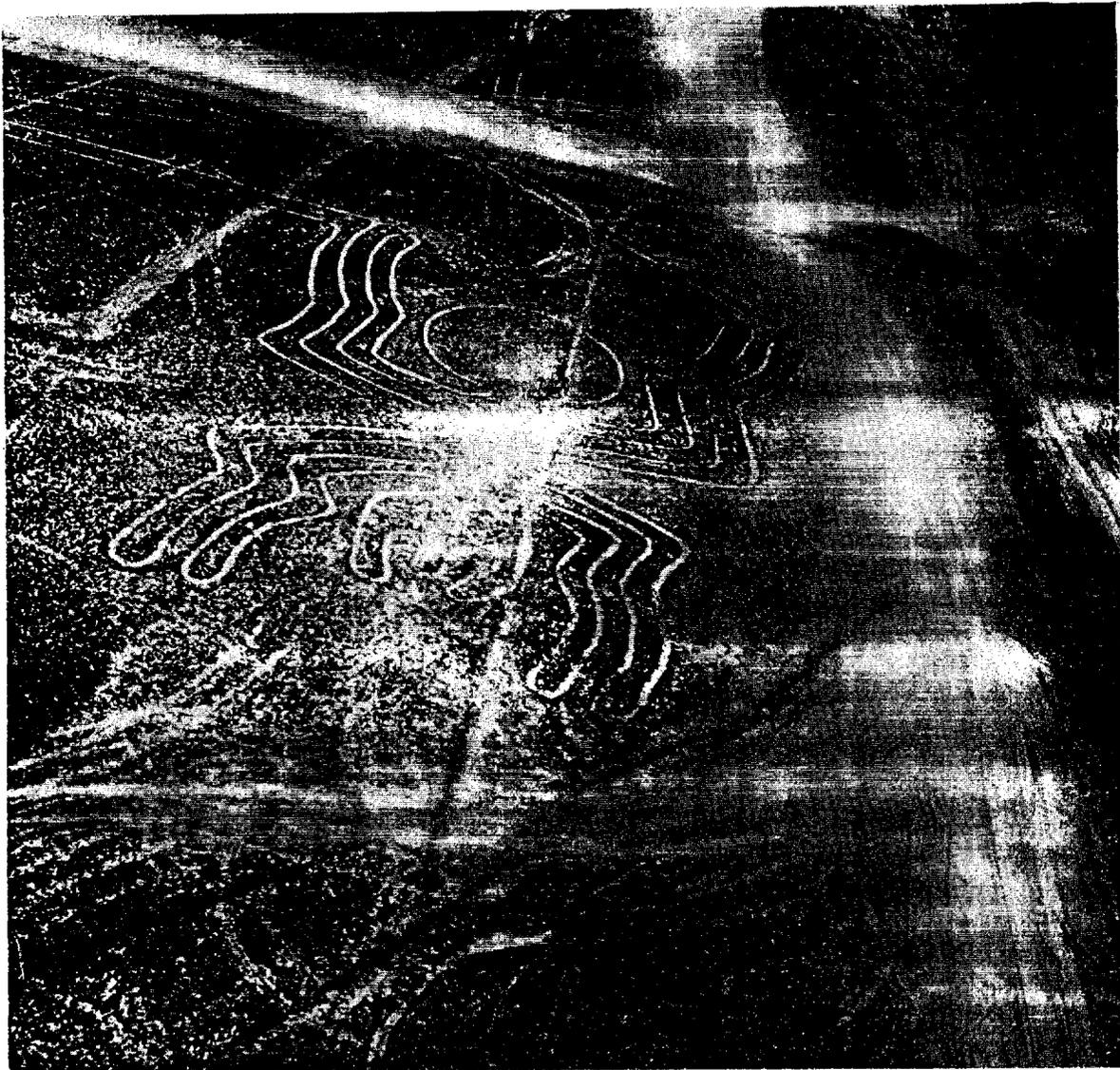
For years Miss Reiche has crusaded to preserve the lines, an effort acknowledged last January when the Peruvian Government allotted one million sols (about \$23,000) for the purpose.

"I would like to see a viewing tower erected near the Pan American Highway," she says, "so that visitors will not be tempted to walk on the lines. I used to direct people to the sites. Now I direct them away, before all the ruins are ruined."

728



BATES LITTLEHALES, NATIONAL GEOGRAPHIC PHOTOGRAPHER,
AND SERVICIO AEROFOTOGRAFICO NACIONAL (BELOW)



002
1 March 90
Ft. Meade
1407
018

PI: none
AV: none

312100
381084



A. Wavy Across
soft
B. Water

A. down
hard
B. Confusion BK
Waterfall or Land

AOL BK
U.S.

312100
381084



A. Angles
hard

B. Structure

52

black

Blue

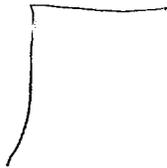
wavy

up + down

AOL BK
City

S2

Angles



Cold

quivering

~~cold water~~

ADC bk

Water

site 1417

S2

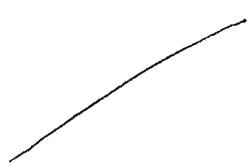
smooth
slippery

Blue

green

Black

diagonals

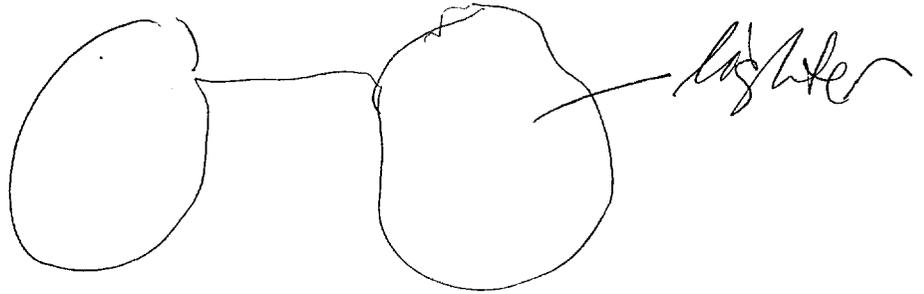


Water sounds

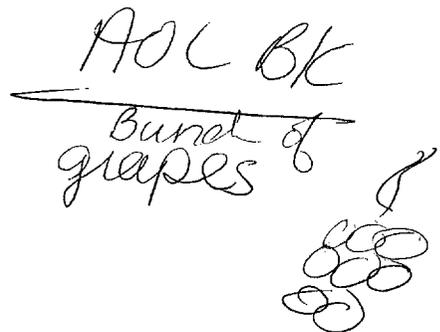
~~Cont BK~~
Cont BK
But there's

Coled

Mark

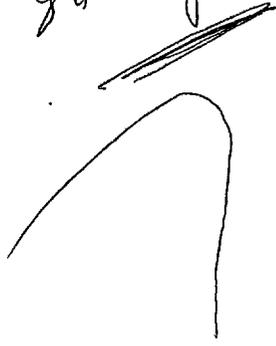


Diagonals



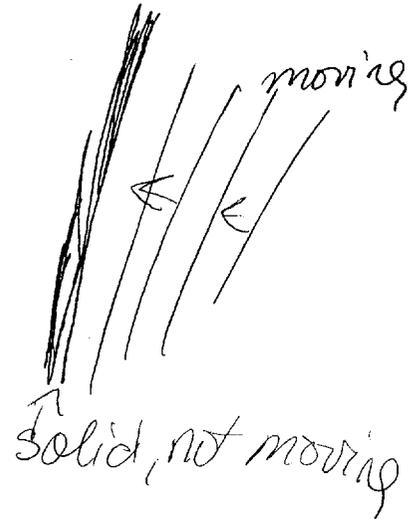
6

Bright Diagonals



AOL BK

Wall



Site 1428

Mystery of the Ancient Nazca Lines

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.

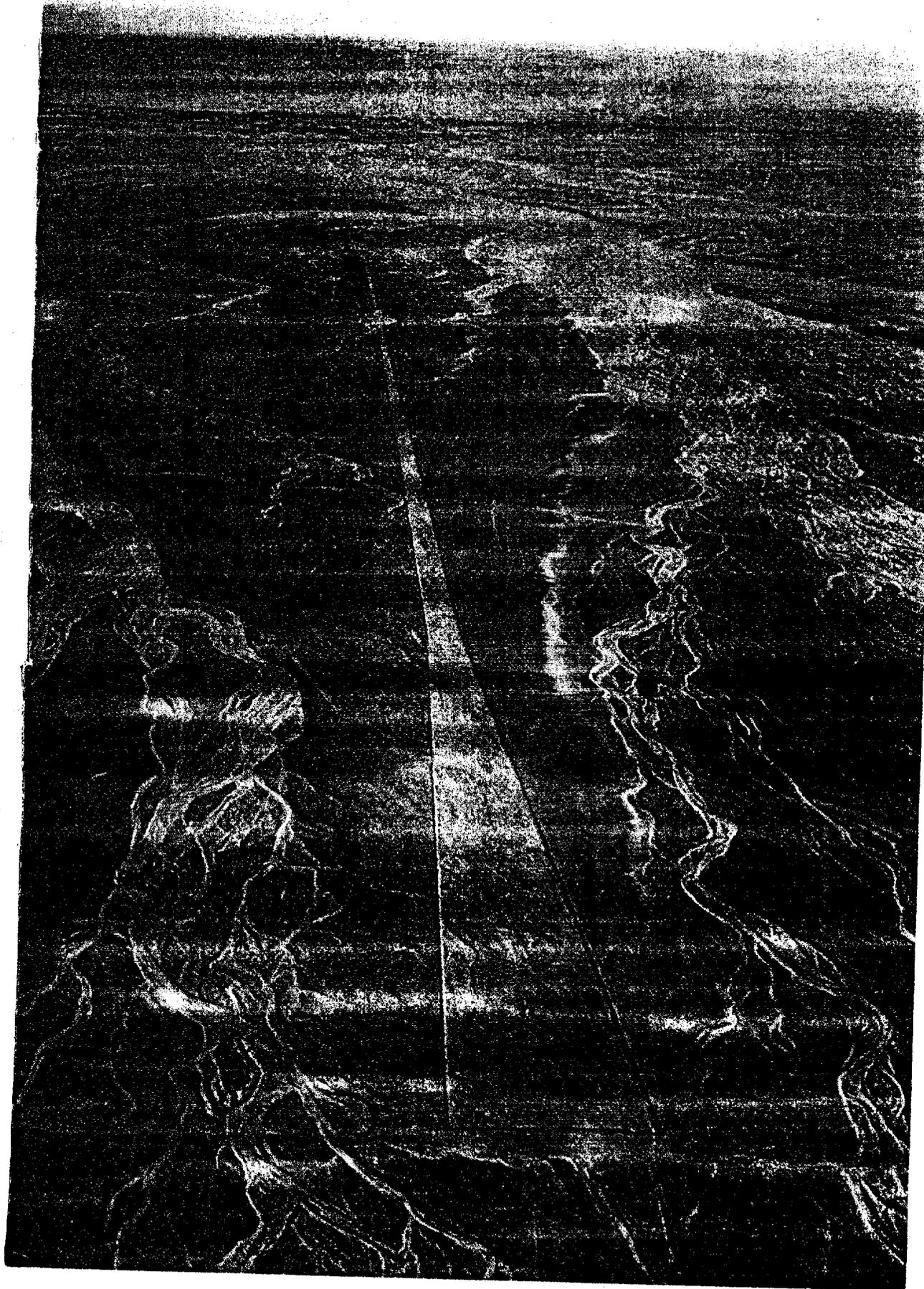
Making the marks must have been simple enough, though time-consuming. Clear away a few million rocks to expose the lighter ground beneath them, pile the rocks in rows, and you have designs that, in this nearly rainless region, can last thousands of years.

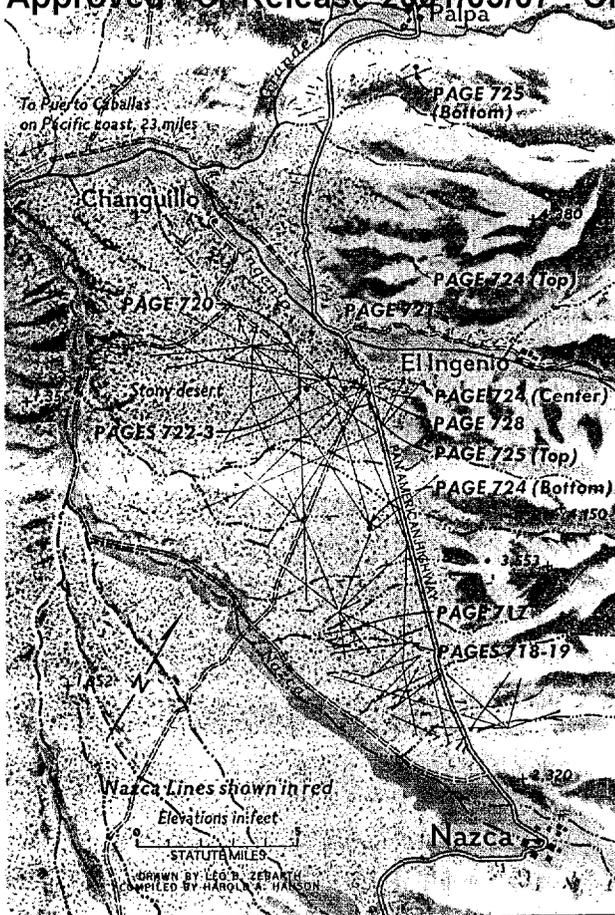
But why did the ancients construct them? Nobody really knows. There have been many guesses—that they were prehistoric roads, farms, or some form of signals or offerings to celestial beings.

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?





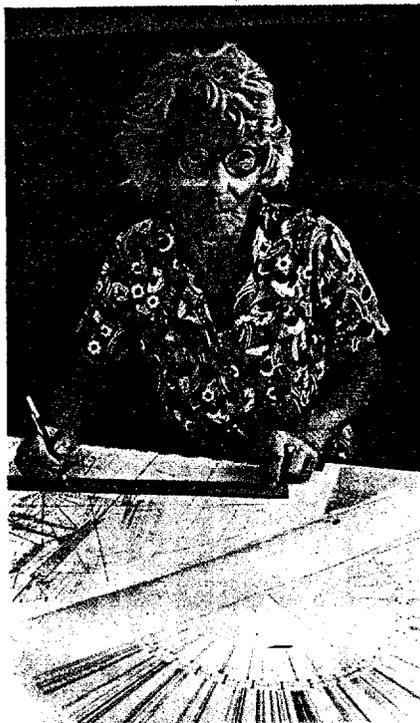
FOR MORE THAN 25 YEARS Maria Reiche has photographed and charted *las líneas*, striving to complete a map of the hundreds of designs and figures that score a tableland some 30 miles long, threaded by the Pan American Highway (map, upper left). A National Geographic Society grant now aids her work.

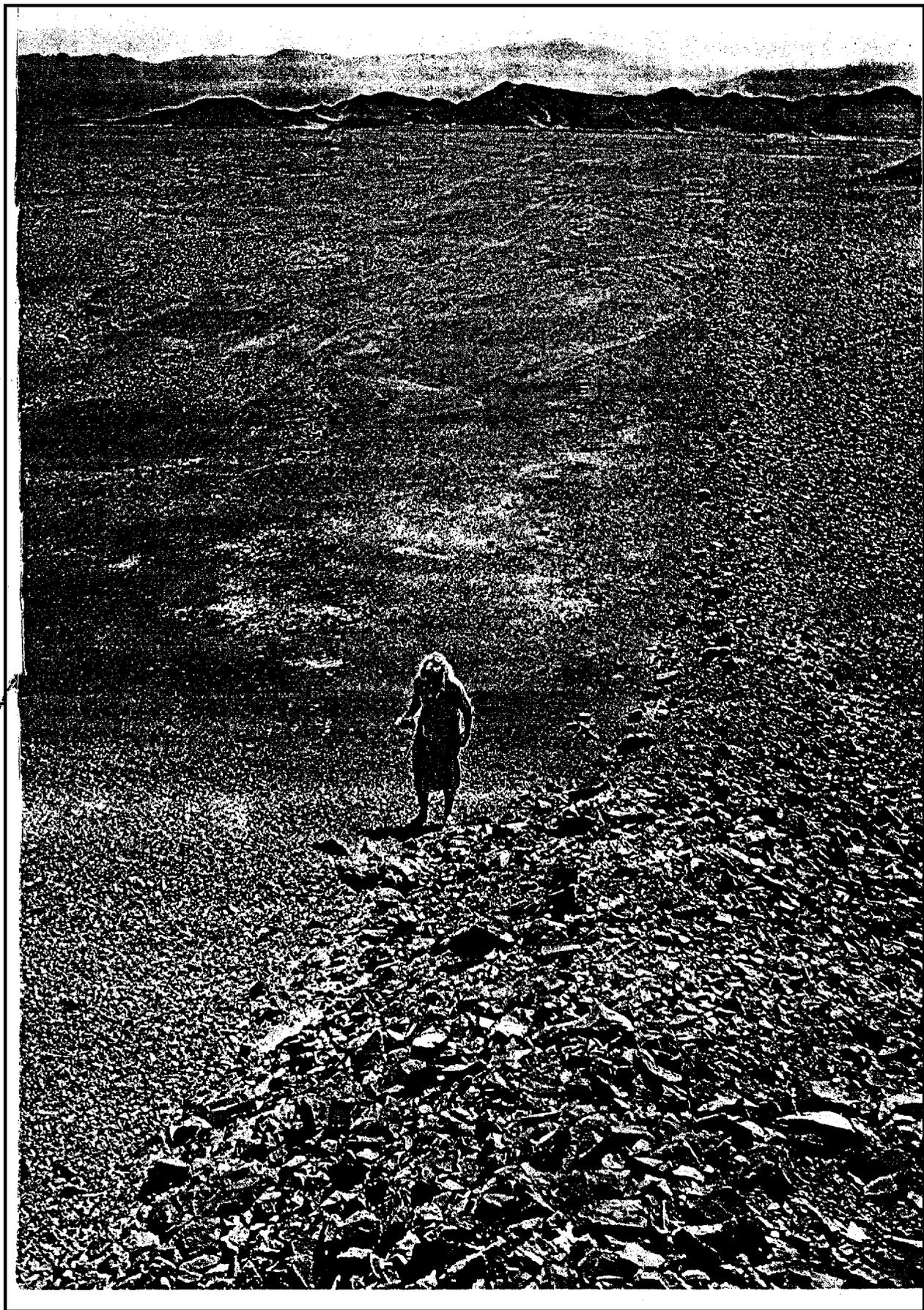
At her desk in Lima (left), the German-born mathematician glances up from a chart, where azimuths of lines dart off in almost all the directions of the compass.

During fieldwork Miss Reiche sleeps on a camp cot behind her car on the rocky, grassless Peruvian "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 reel of tape in her left hand, she has just completed measuring one of the sides of a trapezoidal field (right). Seen from the air (above), it negotiates 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 pre-historic times. "Once you remove the stones, the ground is quite soft," she says. "I'm afraid the spacemen would have gotten stuck."







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 plateau 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 posts have been found at intervals approaching a mile. Perhaps sighting stations with men standing in line behind them? Perhaps.

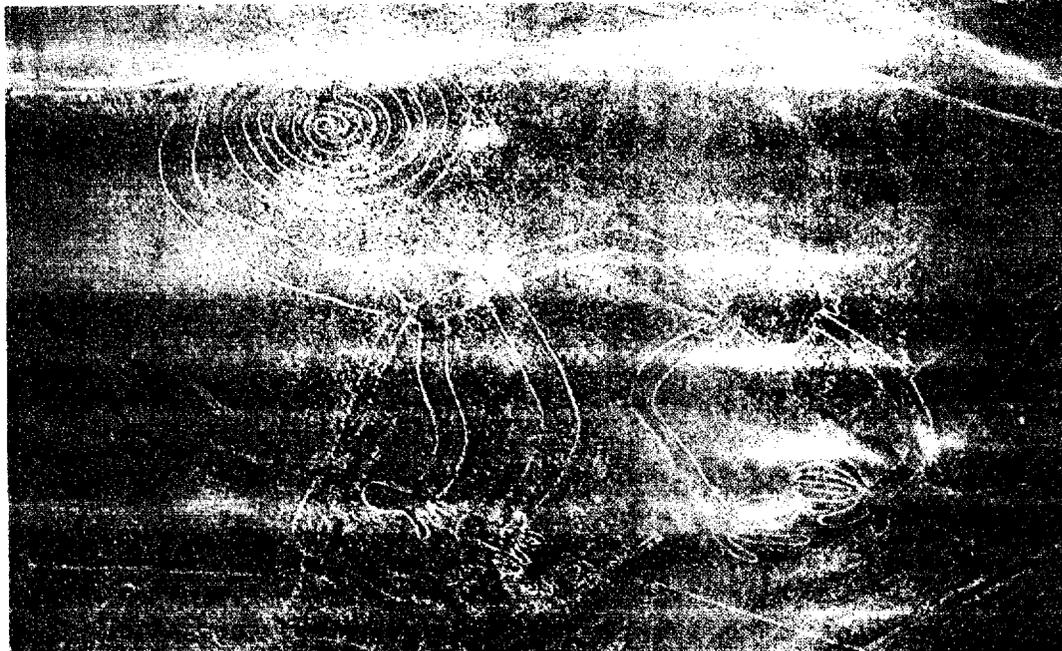


CPYRGHT





BATES LITTLEHALES, NATIONAL GEOGRAPHIC PHOTOGRAPHER





LONGER 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 east 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.

