Return to the Arctic

By FROELICH RAINLEY

At the camp of Onion Portage on the Kobuk River, I was struck by the number of youngsters who played tug and hide-and-seek in and around our excavations every evening after the work had stopped. And there were only four Eskimo families with us to account for these shrubs of small fry. Then, Don Feoste from Magill University flew in one day to visit us and when he was bringing me up to date on the contemporary human geography of the Arctic, he observed that Eskimos are increasing faster than any other race in the world. Ten or twelve children in one family are not uncommon, and now they survive. That is for me the most startling change in the Arctic since I worked there twenty-five years ago. Then I remember lamenting that the world could ill afford to lose the only people in America who had established permanent homes on the Arctic coast.

But Eskimos are not the only prolific creatures in the Arctic these days. Seals and caribou are unusually numerous. And moose are appearing on the Arctic coast for the first time in history. (There are currently many amusing stories about Eskimo who see a moose for the first time.) The obvious explanation, of course, is that more abundant food supplies support a larger human population, particularly when added to the fact that medical attention, Federal welfare programs, and highly paid jobs are all on the increase. But this prosaic explanation is not nearly so interesting as another highly speculative situation.

Since my time in the Arctic, we and the Russians have released enormous doses of radioactive debris into the atmosphere, particularly in the northern hemisphere. The biochemists tell us that lichens, upon which the caribou and reindeer feed, absorb these radioactive materials faster than other living things, and because of this, these animals and the men who feed upon them are already considerably more radioactive in the Arctic than in other regions. Can there possibly be any connections between radioactivity and birth rate? In the Arctic these days, one cannot help but wonder.

To return to work in the Arctic after a generation is to be something like Rip Van Winkle. When I landed at Onion Portage (in a Beaver on pontoons) one of the Eskimos immediately took

FROELICH RAINLEY is an authority on the circumpolar area; his field work there includes excavation on St. Lawrence Island and the Ipiutak site at Point Hope. As Director of the University Museum, a position which he has held since 1947, Dr. Rainley is responsible for the Museum's world-wide archaeological exploration program, in which are included underwater mapping and exploration of shipwrecks and the use of electronic equipment for underwater reconnaissance as well as the more conventional methods of excavation. He has established at the Museum, the Applied Science Center for Archaeology for the development of the instruments needed for such research and for such scientific methods of dating as Carbon-14 and thermoluminescence.

The new crop of Eskimo children at Point Hope with one of the dog teams now being replaced with snowmobiles. The skin boat in the background is still used for whale hunting.

Forest Eskimos on the Kobuk River. The woman on the right cooked for the crew at Onion Portage. She is now a maker of birch-bark baskets and for us reproduced several copies of one found intact in the excavations which we can date at about A.D. 1200.

Froelich Rainley revisits Point Hope, Alaska after an absence of twenty-five years. The Eskimo couple on the right were young-age friends who worked in the excavation at Ipiutak in 1940.
The excavations at Onion Portage looking toward the Kobuk River. This photograph shows some of the distinct levels of occupation and the broad bands of sterile sand separating occupation levels.

The image depicts a scene of excavation work with a group of individuals, possibly archaeologists, engaged in the process. The excavation site appears to be a riverine area with a wide expanse of sterile sandy deposits, indicating periods of occupation and abandonment.

In the text, the author describes the work undertaken by the Eskimos at Onion Portage, highlighting the challenges and unique characteristics of the site.

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In fact, the site at Onion Portage is still, after 8000 years of occupation, a famous hunting and fishing site. Great herds of caribou still move along the ridge extending outward from Jade mountain on the southern flanks of the Brooks range, which is cut by the Kobuk River at this point, then swim the river at Onion Portage. In the river they could easily be killed with spears from boats. More than thirty layers of occupation separated into eight distinct bands have now been exposed on the northern bank of the river. The occupation layers of cultural debris are filled with traces of caribou bones, the small “thumbnail” flint and obsidian scrapers which in some places are still used to softten dried caribou skin, and large quantities of charcoal from the fires which presumably dried and smoked the caribou meat. It is this abundant charcoal, often found in distinct hearths, which makes it possible to date each level precisely with the radioactive carbon method. All eight bands have now been securely dated in the University Museum’s radiocarbon laboratory.

The site was originally discovered by Dr. J. Louis Giddings in 1941, then partially excavated by him in the 1950’s for Brown University with grants from the National Science Foundation. After his death, I took charge of the excavation during the 1965 season as a Visiting Professor at Brown. Detailed studies and the reports on the site are now being undertaken by Douglas Anderson of Brown who was a graduate student at the University of Pennsylvania. Anderson will also continue in charge of excavations there, at least for two more years.
Returning to the Arctic in 1965, I was of course struck by the technological changes which had taken place since the last war. It is safe to say that these are more profound than any other in the entire history of the Eskimo. And yet, the astonishing deposits of cultural remains at Onion Portage, so neatly arranged in sharply defined and datable levels, tells a story of many dramatic changes of this kind. Certainly, one who excavates a site like this cannot help but conclude that the Arctic is not a refuge area where one primitive culture has survived intact into modern times. On the contrary, we see abrupt and complete changes in the primary working tools, so abrupt that I think we are dealing with the remains of distinct racial, tribal, or linguistic groups. All were caribou hunters encamped on the route of caribou migration which has remained unchanged, but there are at least nine distinct cultures represented in the eight bands of occupation. In some cases the hearths of one group lie only a few inches above the hearths of an earlier and they are radiocarbon dated at only a few years later. It looks as if one ethnic group forced out another to take over an ideal hunting site. Over-all, it is a picture of repeated change, certainly not so great as the current ones, but fundamental. Of course, it is never possible, with only archaeological materials, to measure the true meaning of these changes in terms of the lives of individual people, as one observes them today.

I was acutely conscious of this limitation
in archaeological reconstruction when I ran into
one of my old friends among the Athabaskan
Indians of the upper Tanana River, Andrew
Isaacsen. Thirty years ago he and I hunted
caribou in the wilderness between the Tanana
and Yukon Rivers. On the first trip, before the
time of bush pilots, we traveled for three weeks
to reach the upper Tanana, via the Nabesna
River. The Indians were already Christianized
and they hunted with modern rifles, but they re-
mained an isolated Indian community, living on
their ancient hunting grounds. Then, small planes
began to fly there on regular schedules and finally
the Alaska Highway passed by just across the
river. Andrew is now the head man of the group.
He has built a cabin on the highway, flies to
Juneau repeatedly as a political representative
of the tribe, and goes hunting caribou in his
Chevrolet. When I visited his cabin, Maggie, his
wife, was cutting up three caribou which he had
shot along the highway, 150 miles from his camp.
He showed me a new $2,500.00 snowmobile
which he had just purchased to replace his dog
team and told me that he had made $300.00 a
week working on the highway during the past
summer. Maggie explained that many of the
younger generation of upper Tanana Indians had
married whites and several had gone “outside”
to become ordinary Americans. How much of
this complete alteration in personal lives could
one detect in the archaeological remains of the
present period? Probably only an abrupt change
in working tools. There are still the same camp
sites and the ubiquitous caribou bones represent-
ing the basis of life. Andrew also told me that
there was no point in visiting the main settlement
at Tanana Crossing, because “there were only
kids there.” So, I gather that Indians in Alaska,
like the Eskimo, are currently in no danger of
extinction.

The story of archaeology in Alaska since the
last war is the discovery of a highly complex
history of Arctic peoples which can now be
traced through a period of about 8000 years.
There is every reason to believe that the many
diggers now working there will extend this period
much farther into the past and fill in many puzz-
ling gaps. It is a story of repeated change, and of
vital peoples surviving in a harsh environment.
The booming population of today and the tech-
nical differences are new only in degree, not in
kind.

SUGGESTED READING
J. L. GIDDINGS, JR., The Arctic Wood-
land Culture of the Kobuk River, Uni-
versity Museum Monographs, Philadel-
phia, 1952.

A solid mountain of jade? Why, it sounds like a tale
Of marvels told in a fabled, exotic land
In the East, and here it rises across the trail
Of Arctic caribou heading for Kobuk sand
Where wild onions flower, and eight thousand years
Of hunters, drifting from Asia, here made their stand
And left flint scrapers, whetstones, heads of spears
Laid neat in charcoal, centuries to a band…

—From a sonnet by Philip Gray
after visiting Onion Portage