Continued from First Page

ful effects.

lands for 23 years.

somewhat"

were told the dose of radiation they received was too low to cause harm-

"Thyroid nodules have been in-

creasing in the Utirlk people and this was quite unpredicted and we had

some of the best experts in the United

States," said Dr. Robert A. Conard. who has headed the ERDA and AEC

medical program in the Marshall Is-

did it in all sincerity and I'm afraid

the people have held that against me

Glenn Alcalay, a Peace Corps

volunteer who lived on Utirik two

years and returned to California this

summer, said the increase in disease

"has been an amazing psychological

One recently reported case of

thyroid cancer involved the young

son of an exposed person, and that

'Let's face it,

cial of research division.

U.S. goofed,' said offi-

trauma to these people."

LOS ANGELES. CALIF. TIMES

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U.S. Forced to Restudy Radiation Peril "It turns out we were wrong,"

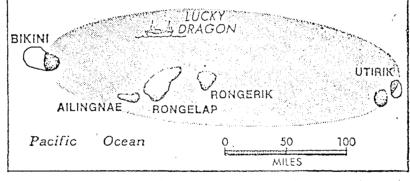
BY LARRY PRYOR Times Staff Writer

The residents of an island in Mi- cronesia that received what was considered a small amount of radiation Sider an H-bomb test in 1954 have developed a high rate of thyroid disease and cancer.

> The sudden increase, which did not become evident until about 22 years after the exposure to fallout, is forcing health physicists in the federal government to revise theories on dose rates that lead to adverse human effects.

Their failure to predict or explain the cause of the disease has also generated fear and mistrust among people on the island, Utirik Atoll, according to recent reports from the Marshall Islands. The islands are part of the U.S. Trust Territory of the Pacific.

One scheduled quarterly medical survey of the Utirik islanders was canceled last December and the American resident physician in Micronesia is being recalled, The Times has learned.



RADIOACTIVE CLOUD-After H-bomb test on Bikini, much attention was paid to the islands in center but little to Utirik. Times map

"The people of Utirik are very distressed and angry as a result of the radiation," the chiefs of the atoll wrole the U.S. Energy Research and Development Administration (ERDA), which administers the medicar program in the islands related to radiation disease. "The people feel that the ERDA program is in need of vast changes."

ERDA and its predecessor, the Atomic Energy Commission, had examined the 158 Utirik residents who were exposed to fallout on March 1, was carried out under contract with 1954, and later treated 11 officially the Brookhaven National Laboratory reported cases of thyroid tumors, in Upton, N.Y., did not include exathree of them malignant.

But until the recent development of the thyroid problem, the residents effects.

has raised the possibility of either second-generation genetic effects or health problems from latent radiation.

Please Turn to Page 26, Col. 2 "The theory was put forth that

The ERDA health program, which

minations of children of exposed persons and did not encompass genetic

the

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LAS IMULES /CALIF / TIMES / 6-11-77

Marshalls who developed a close re- monitoring of radiation. Iationship with the island people be- The atolls affected by the Bikini both of which were adapted from a fore returning to his teaching position test program string eastward from proposal by Secretary of Interior. at the University of Utah,

'iNow the facts of the thyroid can- miles. cer at Utirik have strongly shown .

Utirik medical program.

problem has suddenly occurred, is it levels of radiation from fallout so not possible that the experts have thick that it resembled snow. been wrong for so many years and ERDA officials said the program future?" Kotrady said.

A study by a special committee of of the Utirik people. "Let's face it, the the Micronesian Legislature found U.S. gooled," said Dr. Bill Burr, depu- human population ever exposed to widespread anxiety and misunder- ty director of ERD's Division of Bi- acute radiation from fallout," Dr. Costanding among the Marshallese omedical and Environmental Re- nard said in a 20-year report on the about the threat from radiation, not search.

populated.

found that the people did not under- habitants of Rongelap and Utirik. stand anything about their exposure, the amount of exposure, the possible committee report said.

problem show a monumental culture a Trust Territory of the United States crease in thyroid cases. clash between the health specialists and its citizens share many of this Japan was paid \$2 million by the from the United States and the islan- country's constitutional safeguards. U.S. government in 1955 to compenders, whose food-gathering habits over the centuries.

As the confusion has grown, so, too, the Trust Territories.

Utirik received low radiation so a de- have expressions of resentment and tailed follow up was not necessary," hostility, including a suit by the res- portance to the United States and are tion. said Dr. Konrad P. Kotrady, a former idents of Bikini to force the U.S. the site of important missile and na-Brookhaven resident physician in the government to conduct a thorough valinstallations.

that the theory was wrong," Kotrady Until recently, the focus of the wrote in a stinging critique of the medical program had been mainly on the island of Rongelap, whose 68 res-"The people ask if this thyroid idents received substantially higher 000 to each resident of Utirik at the

that more problems will occur in the has recently been revised and more effort is being made to meet the needs

only at Rongelap and Utirik, but also The islander's deep dissatisfaction among residents of Bikini, the site of will be aimed at Congress next week sale the Rongelapese \$10,500 each, kal said. the tests, which is gradually being re- when the Senate Committee on Ener- but radiation-related thyroid disease

The islands are of key strategic im- pay for the loss of fish due to radia-

Two bills before the U.S. Congress. Bikini. Rongelap is about 100 miles Cecil D. Andrus, would compensate from the test site and Utirik is 280 each Micronesian who developed thyroid disease or a "radiation-relat- ers' radiation exposure, ed malignancy" with \$25,000.

> It would provide \$25,000 to the heirs of persons dying of radiationrelated causes and an additional \$1.time the fallout accident occurred.

> The issue of compensation is difficult because of a lack of precedent. 'In contrast to other groups exposed to radiation, the Marshallese are unique in that they comprise the only Brookhaven program.

In 1965, Congress voted to compengy and Natural Resources takes testi- had only begun to break out on that "Time and again the committee mony on a bill to compensate the in- island and the full health effects were not known.

Since then, a 19-year-old boy who was a 1-year-old at the time of the

Because of a recent U.S. Supreme bomb test has died of leukemia, which effects on themselves and their chil- Court ruling involving a damage Brookhaven specialists said was al-dren and on their environment," the claim on the island of Kwajalein, Mi- most certainly radiation-related. A cronesians cannot sue for damages in case of fatal stomach cancer also has The various studies done on the federal court, although Micronesia is been reported, in addition to an in-

In effect, their only recourse is to sate for the damages to 29 Japanese and way of life have changed little appeal to Congress and the Depart-fishermen on the Lucky Dragon fishment of Interior, which administers ing vessel who were subject to fallout described as experimentation."

So far, the Utirikese have received \$18,000, or \$114 per person, to pay for

A series of mistakes compounded the island-

the inconvenience of medical examinations. This figure was arrived at before the thyroid disease problems became apparent.

Ronald G. Bakal, a Los Angeles attorney representing 70 Utirik people, referred to the previous payment and the amounts proposed in the bills as "gratuitous compensation."

"In California, the minimum would be \$100,000 to compensate if a person were involved in a wrongful death and it could go as high as \$400,000 to \$500,000, maybe more, depending on loss of income and other factors," Ba-

He has demanded that the 40 persons in the exposed group still living on the atoll receive \$1 million each and that the atoll as a whole be compensated \$60 million "for psychological, emotional and environmental damages."

Bakal said community funds should be provided to cover environmental studies and assistance, as well as hospitals, a pharmacy and medical training for the islanders.

He also has questioned the quality of the medical treatment provided the Marshallese, saying "it can only be

from the same bomb test, as well as to 1 These charges are bitterly denied ·11170.

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health effects, the medical program the upper atmosphere caused the rathe isolation of the islands.

these people is so far above what is

for these people."

The people of Utirik became skep- of Bikini reef into the air. tical of the medical program when ists told them they had nothing to worry about. "The people of Utirik a cloud of white, gritty ash. should be able to choose their own wrote to ERDA.

25 However the compensation question is resolved, there has been no dispute that the United States was at fault and that a series of mistakes by ingnae with another 18. AEC and military personnel after the Rongerik, where 28 servicemen had tion exposure.

March 1, 1954, a fleet of ships, Joint metal hut, the Micronesian report Task Force 7, was positioned 30 miles The cloud events in east of Bikini and 70 miles west of Reongelap.

Despite what was apparently incomplete and conflicting weather data, the decision was made to detonate a hydrogen bomb, "Bravo," on a tower on Bikini at 6:45 a.m.

"The yield was about 17 megatons,

by ERDA officials, who argue that considerably greater bon expected, despite the unpredicted long-term and an unpredicted shift in winds in was the best that could be provided, dioactive cloud to drift over and deconsidering budget limitations and posit fallout on several inhabited atolls to the east," Brookhaven's 20-"The treatment we have given year review of the incident reported.

The report of the Micronesian Leggiven on the other outer islands of islature said fireballs from the device Micronesia, I feel proud of what we shot upward at a rate of about 300 have done for them," Conard said, "I miles per hour, rising in one minule to have a great deal of love and respect five miles. It was the biggest blast yet

"Bravo's" fission-fusion-fission disease broke out after Conard and a process also released an enormous number of other Brookhaven special- quantity of gamma and beta radiation, jury. which then began to fall downwind in

The fallout landed on the fleet of doctor," the chiefs and the people ships and the Lucky Dragon, which had strayed into the area in search of fish. Within four to six hours, the fallout began to rain on Rongelap, where there were 64 people, and nearby Ail-

taken up station with monitoring During the predawn hours on equipment. The men took cover in a

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ik, about 22 hours later, but in contrast to the heavy, snow-like fallout at Rongelap, the fallout at Utirik was described as "mistlike." There were 157 persons on the atoll at that time.

The servicemon were evacuated from Rongerik within 36 hours, but it took two to three days to completely evacuate the Microndsians from the other islands, according to the committee report.

The exposed people were taken by planes and Navy ships to Kwajalein for decontamination and medical evaluation. The people from Rongelap had skin burns, gasattempted, carrying millions of ton; treintestinal disturbances, hair loss and blood changes.

> The AEC later estimated that the Rongelapese had received 175 rads of gamma radiation and the Utirikese 14 rads. The Utirik residents showed no signs of radiation in-

(A rad is a measure of absorbed dosage, According to one ERDA official, at 14 rads there would be no immediate observable effects, but at 175 rads some biological changes could be measured, such as a change in blood count.

(The lethal threshold is considered to be about 400, rads, a point at which about half of the people exposed would probably die in 30 days.)

The island residents were not aware of the danger from the fallout before being evacuated, so they absorbed radiation internally by inhaling the fallout and ingesting contaminated food and water.

Children, in particular, were found to have received high dosages. The principal isotope at the early stage of the fallout was lodine 131, which accumulated in the islanders' thyroid glands.

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Again, children were affected the most, some receiving thyroid doses of 700 to 1,400 rads, compared with 220 to 450 for the adults, according to government reports.

- The Utirik people were returned to their atoll in June of that year, but it took three years before the people of Rongelap could return.