

Two views of Tiros, the U.S. weather Satellite. At left the complete package undergoing final inspection before launch. Above, the instrument complex with bubbles covering tape recorders. Electronic and transmitting equipment at left and TV lens at bottom.—Associated Press Photo.

Cloud Photos Taken Over Russia May Be Transmitted to Kaena Point

By JAMES HECKMAN

Photographs of clouds over parts of Russia probably have been received by the satellite tracking station at Kaena Point.

Tiros I, the U.S. weather satellite, this week was to photograph clouds over Mongolia, Manchuria, eastern Russia north of Vladivostok and the Japanese Island of Hokkaido.

These pictures were to be transmitted to Kaena Point later.

David S. Johnson, a Weather Bureau meteorologist who is representing the National Aeronautics and

Space Administration on Oahu, said the photos probably have been received.

He said he isn't familiar with all photographs transmitted to Kaena Point from the orbiting Tiros and that he isn't authorized to release details.

The station still is tracking Tiros and receiving data, he said.

"I'm pleased," Johnson said when asked if the photographs are of high quality.

The drum-shaped satellite transmits photographs to Kaena Point and to the

Army Signal Corps station at Fort Monmouth, New Jersey.

When the satellite is out

DIRECTORY

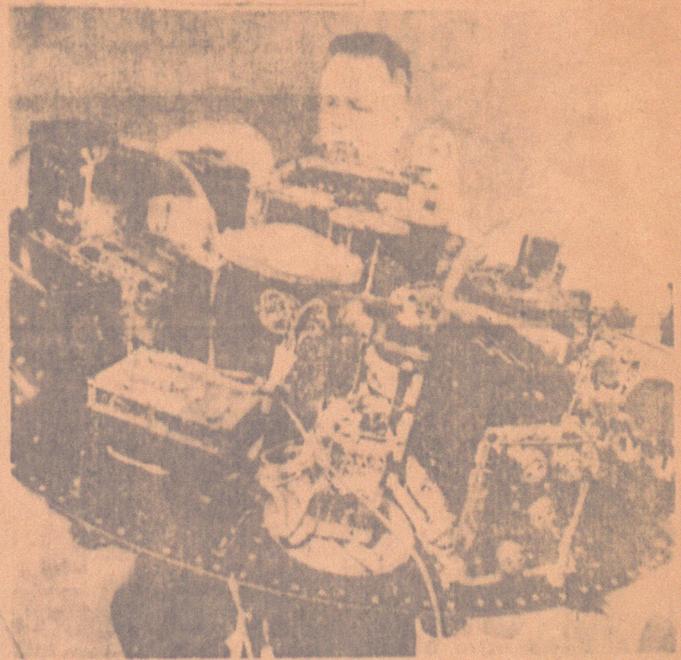
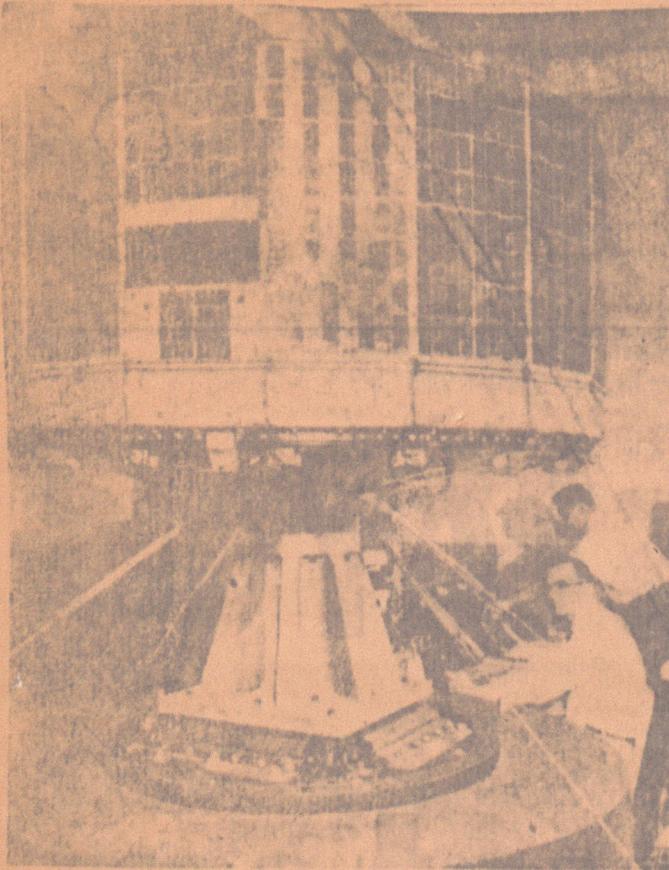
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of range of these two stations, it can record up to 32 photographs on magnetic tape for later relay.

The tape is by-passed and pictures are relayed directly to the ground stations when Tiros is in range.

At Kaena Point, the photographs are displayed in kinescopes for immediate examination and re-photographing.

The ground stations can program the cameras to take pictures only when the satellite is viewing sunny portions of earth.



Two views of Tiro, the U.S. weather Satellite. At left the complete package undergoing final inspection before launch. Above, the instrument complex with bubbles covering tape recorders. Electronic and transmitting equipment at left and TV lens at bottom.—Associated Press Photo..

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Satellite Sends Signals 3.5 Million Miles Away

SOUTH POINT, Hawaii, April 6—The Pioneer V sun satellite being tracked by scientists at this station was about 3,556,000 miles from earth at 7 a.m. today.

The 94.8-pound satellite may send radio signals to the tracking station here from as far as 50 million miles in space.

The space explorer is nearing minimum speed in its dash around the sun.

Last midnight it was traveling relative to the earth, at 5,363 miles an hour.

Pioneer V's five-watt transmitter is making regular reports to tracking stations.

Its 150-watt transmitter, expected to maintain communication over 50 million miles, will be turned on when the smaller transmitter no longer can do the job, sometime between April 15 and May 15.

When the satellite is out of range of these two stations, it can record up to 32 photographs on magnetic tape for later relay.

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The Associated Press reported from Washington, D.C., that Tiros today photographed the U.S. between Washington State and New York City on one pass and later took pictures between Wyoming and Florida.

National Oceanic and Atmospheric Administration TIROS Satellites and Satellite Meteorology

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12200 Kiln Court
Beltsville, MD 20704-1387
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