



# COMPLETE Final N.Y. STOCKS

# 2 Air Lines Are OK'd For Isles - Northwest

## Can't Give Away a Buck

One or two gave me dirty looks. Those who looked more prosperous usually were quick to take the cash, which probably proves something. I was on the job for 10

ford Domine of 1507 Liliha Street. He romped away grinning from ear to ear. A cute little miss of about 20 took the next dollar, but was too shy to give her name.

into the Liberty House. A few minutes later Patrolman Joseph Kamai chugged up on his motorcycle. He climbed off and casually strolled into Andrade's. I continued my efforts

## C.A.B. Makes Operations Permanent

WASHINGTON, April 1 (AP)—The Civil Aeronautics Board today granted Northwest Air Lines and Pan American Airways permanent routes between Honolulu and the Pacific North-

## Honolulu Star-Bulletin

HONOLULU, FRIDAY, APRIL 1, 1960

Honolulu Star-Bulletin, Vol. 49, No. 93 ★★★★★

## Satellite Takes Storm Photos

CAPE CANAVERAL, Fla., April 1 (AP) — A robot space weatherman was hurled into orbit around the earth today and within hours apparently had photographed the storm known to be moving into the Middle West.

Scientists at the National Aeronautics and Space Administration and the Weather Bureau warily avoided any direct statement that they were getting back any such dramatic proof of outstanding success.

But Dr. Harry Wexler, chief scientist of the U.S. Weather Bureau, told a reporter he believes signals from the satellite's camera transmitter "will show a

### Marvelous,' Says Eisenhower

WASHINGTON, April 1 (AP)—A delighted President Eisenhower got a look today at scientifically dramatic photographs made from America's new earth-circling weather eye satellite.

"I think it's a marvelous development," the President remarked as Dr. T. Keith Glennan, chief of the civilian space agency, showed him four photographs taken from 450 miles above the earth.

"I am tremendously pleased," Glennan told newsmen.

"I am very happy."

picture of the Midwestern storm which we know is on today's weather map."

The immediate aim of the whole project is to develop a system for observing and forecasting such major weather movements.

Asked if he himself had seen a visual representation of the signals radioed back from the satellite, Wexler said he had seen some of them.

He added that he feels "when properly reconstituted they would be very useful (to meteorologists) as indications of cloud cover associated with major storms."

As to whether the reports coming back from the new satellite were actual pictures, Wexler said:

"It's a question what you mean by a picture."

But he repeated that he feels "we are getting very fine results that will be tied in with this storm that occurred in the Midwest today."

The scientific package went up on the nose of a huge Thor-Able rocket just after dawn.

The National Aeronautics and Space Administration

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# Tiros Data 'Swamps' Kaena Point Scientists

A weary crew of scientists worked feverishly today at Kaena Point monitoring data from the Tiros satellite.

David Johnson, chief scientist, took time for only a hurried comment:

"We're receiving data well. We're swamped and we've been up a long time, you know."

At the University of Ha-

waii, however, the big job was yet to come for Colin Ramage, geology and geophysics professor in charge of interpreting the data.

"We won't begin our work for several days until there is an accumulation of material," he said.

His research will be conducted at the University.



## U.S. Satellite Launched

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in Washington promptly reported the flight itself was successful.

Then shortly after noon Dr. Wexler said signals coming back were "enough to let us know that there is something good there."

Other scientists at an N.A.S.A. news conference would go no further than saying they were getting back a series of dots that needed interpretation and they hoped for pictures during the day.

Dr. Abe Silverstein, director of space flight projects for N.A.S.A., said the satellite had achieved an orbit fairly close to the one originally planned for it, which would be a circle of about 380 miles from the earth.

Silverstein added that the satellite was injected into its orbit at an angle within three one-thousandths of a degree of that planned for it.

He said the plan was to inject it at an inclination of about 48.229 degrees from the equator and it achieved one of 48.327 degrees.

The space agency said the orbit actually achieved would take the satellite 435½ miles from the earth at its nearest point and 468.28 miles at its farthest point.

N.A.S.A. said all the experiments were "currently working and we expect to obtain data from it."

## Air Line Route Award

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should be granted permanent authority for the route and that Pan American's request for approval should be denied.

The board's ruling said the examiner relied too heavily on earlier data in appraising the traffic potential, and failed to give sufficient weight to current traffic figures.

The C.A.B. said the examiner overlooked the impact of jet service and underestimated the probable traffic growth.

### TOO THIN

Northwest, and counsel for the C.A.B.'s Bureau of Air Operations, both had argued that the Pacific Northwest-Honolulu market was too thin to support economical operations by more than one air line, and that better service would be provided if Northwest alone were authorized to provide it.

Pan American had argued that competitive service by two air lines was economically justified.

The C.A.B. said that both Northwest and Pan American contributed much to promoting air travel between the two areas, and both have participated about equally in the market of air travel.

As a result of these combined efforts, this route has now reached a traffic level where both carriers are operating frequent service with favorable factors and are in a position to give this route the advantage of competitive service without any subsidy support from the government," the C.A.B. said.

The board added that in view of the fact that Pan American has introduced jet equipment on this route

icates of both air lines extended for three years.

The C.A.B. pointed out that with the admission of Hawaii as a state last August, the operations have become interstate in nature and Presidential approval no longer is required.

## Civil Rights

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to "a kangaroo court."

Senator Stennis, Democrat of Mississippi said the procedures would permit court-appointed referees to act "under a loaded set of rules."

In effect, he said, state registrars accused of wrongdoing would "sit idly by while unilateral charges of misconduct are hurled against them."

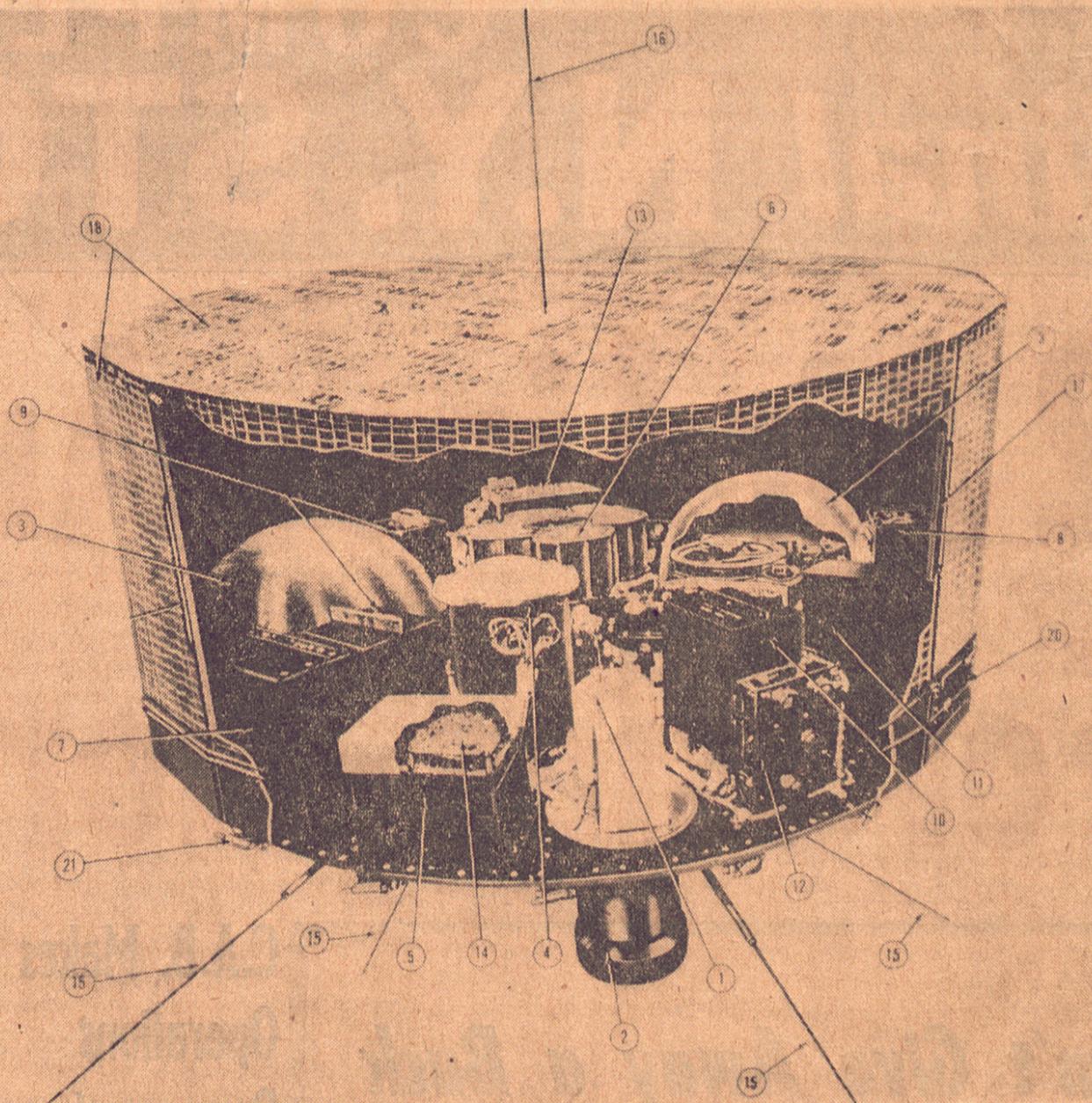
"It would be a kangaroo court, wouldn't it?" asked Senator Talmadge, Democrat of Georgia. "That's right," Stennis said.

Senator Dirksen, Republican of Illinois, said he would be willing to agree to "a moderate compromise," but Senator Russell, Democrat of Georgia, said he hadn't yet seen any compromise that would satisfy him.

## Pruzzler Loses Prize by One Letter

One Pruzzle fan missed out on the \$350 cash prize this week when she missed one letter on her entry.

The near winner, Dorothea R. Lambert, 2823 Winam Avenue, would have been counting a stack of silver dollars today if she had completed this one word correctly. She missed on the



Here is a cutaway model of the weather satellite the U.S. put into orbit today. Photo keys: 1. One of the two half-inch Vidicon TV cameras; 2. Wide-angle camera lens; 3. Tape recorders; 4. Electronic timer for operational sequencing; 5. TV transmitter; 6. Chemical batteries; 7. Camera electronics; 8. Tape recorder electronics; 9. Control circuits; 10. Auxiliary controls; 11. Power converter for tape motor; 12. Voltage regulator; 13. Battery charging regulator; 14. Auxiliary synchronizing generator for TV; 15. Transmitting antennas; 16. Receiving antenna; 17. Solar sensor to measure position of satellite with respect to sun; 18. Solar cells; 20. De-spin mechanism; 21. Spin-up rockets.

# **National Oceanic and Atmospheric Administration TIROS Satellites and Satellite Meteorology**

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