dace Gain for U.S.

By Charles Corddry United Press International

Two new American satellites circuited the earth today after a spectacular "double-header" launching with a single rocket. Officials hailed their success as proof that America is "mov ing into space for real.'

The moonlets, launched piggy-back fashion from Cape Canaveral, Fla., at 1:54 a. m. EDT Tuesday, were sent aloft to provide the world a precise all-weather navigation system, to improve the accuracy of its clocks and to measure the sun's radiation.

The larger satellite also carried a space experiment for Canada—a receiver to study background radio noises from the galaxies.

America now has 11 satellites in orbit around the earth, compared with Russia's two.

New Space First

The feat of putting up a pair of sattellites simultaneously with a single booster was a new space 'first' for the United States. This has not been attempted, so far as is known, by Russia.

A two-stage, Thor-able-star, an Air Force rocket, accomplished the feat.

The Transit II-A sattellite, the navigational aide and timemeasuring sphere, soared into a near-circular orbit that will carry it over all of the earth's land masses—including Russia except certain arctic and antarctic points.

As soon as orbit was achieved, this 223-pound aluminum space probe gave birth to the smaller basketball-sized satellite, which checks on solar radiation. It was ejected by spring action.

Payloads Function

Rear Adm, T. F. Connolly, chief of the Navy Bureau of of a pair of satellites with the two satellites were functioning properly.

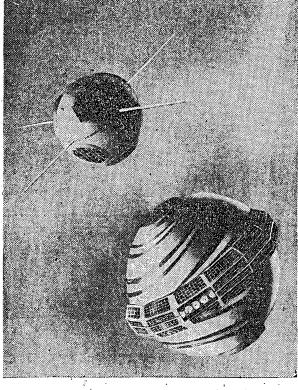
"There are no problems," he space for real," he said.

1962, will be able to fix posi-within 460 miles. tions on land and sea within Its orbiting ti

one-tenth of a mile.

The first Transit, launched last April, is giving fixes within a quarter of a mile, they

in orbit, ships at sea can interrogate them by radio at any slowly.



The drawing above shows how the Transit II-A satellite and its "piggyback" package, a solar radiation measurement satellite, appeared just after saparation in outer space yesterday. The larger satellite was developed by the Applied Physics Laboratory of Johns Hopkins University at Silver Spring and the smaller vehicle by the Naval Research Laboratory here. At right: the doubleheader satellite rocket takes off at Cape Canaveral.

Transit satellite—an electronic global time system."

the satellites will give them Canadian experiment, carries or "digital" clock which the in code that will tell a new feature not on the first Navy said could "lead to a new

"fixes" them where they are.

Moving for Real

Connolly said the launching weapons, told a news confer single rocket showed that ence here that the payloads of space operations are becoming

"something we can count on."
"We are rapidly moving into

R. B. Kershner of the Johns Cmdr. R. F. Freitag of the Hopkins Applied Physics Lab-Weapons Bureau said Navy oratory said the navigation officials are confident now that satellite's orbit was taking it a system of four Transit satel- to a maximum of 563 miles lites; to be in operation by from earth and bringing it to

> Its orbiting time is 101.5 minutes. The orbit is inclined

65 degrees to the equator. The smaller, 42-pound solar in a quarter of a mile, they radiation sphere probably has said, and the one launched yesterday will do better.

When all four franciscopies and the will settle when all four franciscopies. terday will do better.
When all four Transits are into a somewhat larger orbit and circuit the earth more in addition to the

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