

THE CHARLOTTE NEWS

Satellite Circling In Space

T! THE MOON IS UP



Killings Weighed

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LinCoLN, Neb. @—Pintsized killer Charles Slarkweather and Carli Fugate,
his 14-year-old girl companion, languished in separate
institutions today while authorities weighed their respective roles in a shocking
series of 11 killings.

4 Die In Crash

NEW ORLEANS (#)—Four men died early today when a Humble Oil Co. helicopter crashed into rough waters of the Gulf of Mexico two miles south of Grand Isle, La. Seven other persons were rescued.

City Snowbound

ST. LOUIS (#) — Snow-struck St. Louis recovered slowly today from a 11-hour surprise storm that paralyzed traffic and marooned hundreds in factories and exholes.

Egypt, Syria Under 1 Flag

North Manager in the case of t

Our Weather

Much c	older to	y and v	con-
inned	windy.	Sunday	fair
and col			
Low	this mor	rning	47
Low	tomorroy	morning	23
High	today		55
High	vesterda	у	56
High	tomorro	W	40
Sunris	e today	7:22 a.m	: sun-

lore Weather Data on Page 3-A

NewsWords

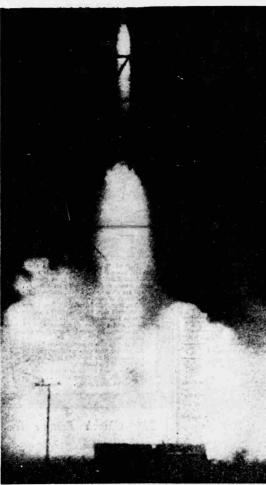
Solution Too Tough

See answers on Page 3.R

Dec unances D	
Books	5A
Classified	1C-8C
Comics	6A
Crossword Puzzle	5A
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Go, Baby, Go!

Jupiter Rises Slowly From Ground With U.S. Satellite In Its Nose



Satellite Baring Secrets Of Space

By ALTON L. BLAKESLEE
AP Science Reporter
NEW YORK &— America's
first satellite is a true chatterbox gossping about space.
Its radio voices talk continutously, not with the beep-beepbeep of Russia's irist Sputtus.
All this talk is in code telling
what the Explorer is learning
about cosmic rays, meteorites,
and temperatures hundreds of
miles above earth.
This system is telemetering,
a kind of telegram from space.
In one method of measuring
in o beep of Russia's iirst Sputnik.
All this talk is in code telling
what the Explorer is learning
about cosmic rays, meteorites,
and temperatures hundreds of
miles above earth.
This system is telemetering,
a kind of telegram from space.
Telemetering has long been
done with rockets which soar
up 50 0.200 miles, there fall in
formation, code 't, and broadformation, code 't, and broadformation, code 't, and broad-

'Explorer' In Brief

By ASSOCIATED PRESS SHAPE: A pencil-like tube inches long, and six inches

80 inches long, and six inches in diameter.

WEIGHT: 30.8 pounds, of which 12.67 pounds is the final stage of the rocket with the stage of the rocket with pounds, the satellite instruments inside a steel case.

ORBIT: Early estimates are it comes as near as 185 to 230 miles of the earth, and swings 1,230 to 2,000 miles out thio appear.

ROUNDTRIP TIME: 106 to 113 minutes. SPEED: 18,000 to 19,400

LAUNCHED: At 10:48 p.m. riday, Jan. 31. by the Army-



And Go It Does!

Mighty Rocket Gains Speed Leaving Fiery Trail Behind AP PHOTOFAX PICTURES FROM THE SCENE

Moonwatch Mans Tracking Station

Army Rocket Takes 'Explorer' Into Sky

CAPE CANAVERAL, Fla. (AP) - The United States' first man-made satellite whirled around the earth today and the Army disclosed that it is preparing to hurl another one into orbit.

It was the Army's Jupiter-C missile that fired a 30.8-pound "moon" aloft last night and recovered some of the U.S. prestige lost when Russia boosted her two Sputniks into space last fall.

"That's wonderful!" President Eisenhower exclaimed when news of the Army's success reached him at Augusta, Ga., where he had gone for a weekend of relaxation.

With a huge burst of flame and a thunderous roar that could be heard for miles along Florida's east coast, the Jupiter-C blasted off from this top-secret firing base at 10:48 p.m. (EST) last night.

About an hour and three-quarters later, its satellite had completed its first journey around the world and tracking stations were receiving its radio signals.

2-10 YEAR LIFE PREDICTED

It was so well established in orbit, said Maj. Gen. John B. Medaris, head of the army's missile test program, that it will remain aloft from 2 to 10 years.

It is unlikely the Army's satellite will be visible to the naked eye. In an announcement the army said: "It will appear in its orbit with about the brilliance of a one-fifth to one-sixth magnitude star; and a star of this brightness can barely be seen without some magnification."

There are no living organisms in the satellite, the Army said. The Navy plans to put yeast cells in one or more of its satellites in an experiment to provide data on the reaction of living matter to conditions outside the earth's atmosphere.

of living matter to conditions outside the earth's atmosphere.

There was confusion in early reports about the altitude of the satellite, Medaris said the distance from the earth in its eliptical orbit would range between 185 and 1,230 miles. Dr. Wernher von Braun, designer of the rocket, said it would swing as high as 2,000 miles and as low as 230.

Von Braun said the 6-foot-long metal tube is circling the earth once every 113 minutes. Medaris said the time was 106 minutes.

They disagreed also on the baby moon's speed. Von un figured it at 19,400 M.P.H.; Medaris said almost ex-ly 18,000.

The satellite—christened the Explorer by its Army sponsors—has the only radio voice coming to earth from out in space. Sputnik I has disintegrated and the radio batteries of the dog-carrying Sputnik II have long been dead.

Two hours after the firing. Medaris told a news concence here that the Army "has been directed to fire one more satellite at the present time."

The date has been set, he said, but will be kept secret. The army received a goached to launch its little space.

The date has been set, he said, but will be kept secret. The army received a go-ahead to launch its little space traveler after the Russians had fired their two Sputniks. Previously, the space program had been assigned exclusively to the Navy.

Efforts to get the Navy's Vanguard rocket off the ground have failed. The first Vanguard blew up on its launching pad here Dec. 6. The firing was highly publicized in advance and the failure was a severe blow to U. S. pride.

Last night's spectacular success was no surprise to the Army, which claimed it could have done the job long before the Sputniks if it had been given the chance.

Medaris was so confident that in a statement prepared several days ago he predicted "about a 90 per cent degree probability for success of the Army's first try.

POWER SHOWS IN BLAST-OFF

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The great blast of orange flame that marked the Jupiter-C's departure from the earth indicated it was one of the most powerful rockets ever launched here. Taking off more quickly than other big missiles, it gained momentum swiftly as its mightly esgine thrust it high into the starry night sky.

Seven minutes after the blastoff, its satellite was in orbit. The army said the satellite, a metal capsule 80 inches long and 6 inches in diameter, contains no living organism. Its primary mission is to measure cosmic radiation.

Data picked up by the satellite will be relayed to earth by two radia transmitters. A high-powered transmitter: broadcasting on 10603 megacydes, will send out information on temperatures, inside and outside the satellite. Another of lower power will broadcast impacts with cosmic rays and meteorites.

The bigger battery is expected to last two weeks. The other probably will operate about two months.

CELEBRATION TO BE BIG

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The launching of the Explorer came on the eve of the second birthday anniversary of the Army Ballistic Missile Agency at Huntsville, Ala. Medaris told newamen a celebration had been blanned at Huntsville and "I'll be a whopper now."

Medaris went to nearby Patrick Air Force Base soon after he firing to meet with newmen in a theater there.

After answering hundreds of questions, Medaris begged the reporters to end the conference "So I can get a couple of hours leep and be in shape for that celebration."

Asked what the Army will do next, Medaris said it has tade several proposals for other programs.

He declined to smplify but asserted that "when your Army

See WE DID IT on page 3-A