

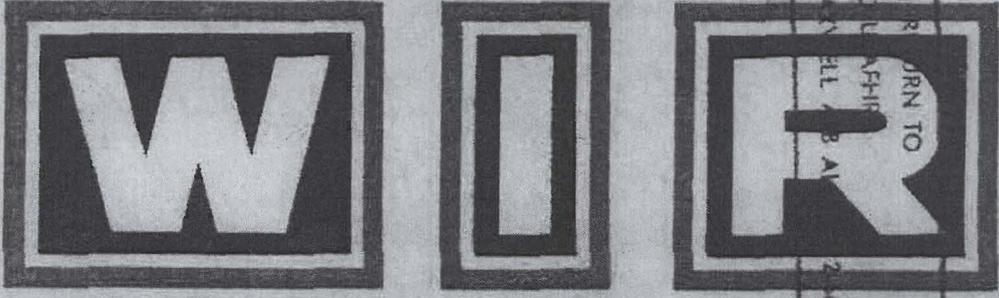
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NORTH AMERICAN AIR DEFENSE COMMAND



WEEKLY INTELLIGENCE REVIEW (U)

K410.607-289

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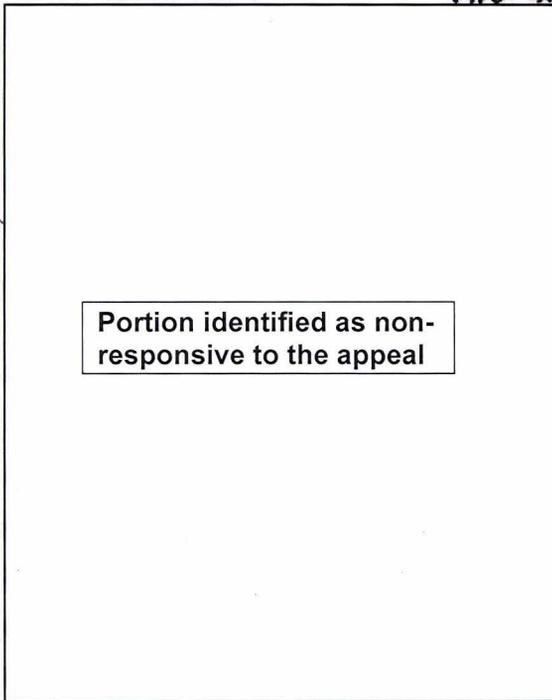
# NORAD

Weekly  
Intelligence  
Review

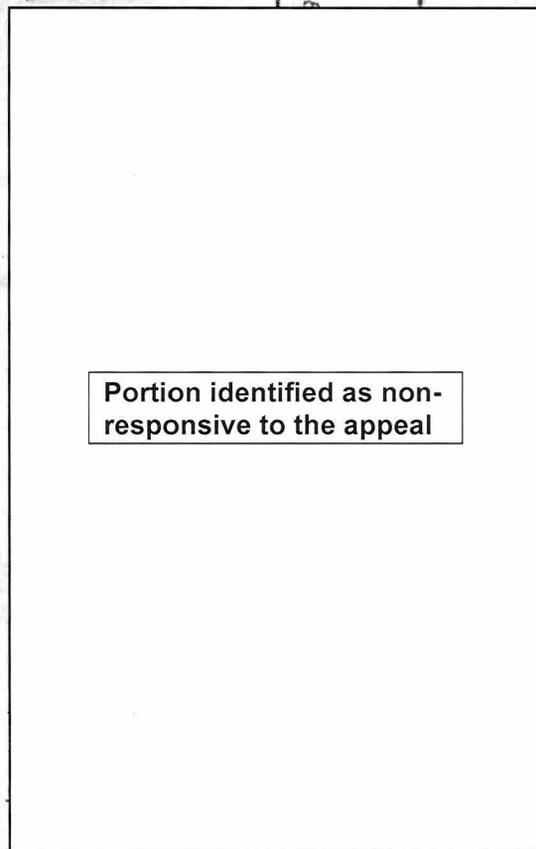
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Issue No. 35/66, 2 September 1966

## The WIR in Brief



Portion identified as non-responsive to the appeal



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### Space

COSMOS 122 MORE SOPHISTICATED THAN U.S. WEATHER SATELLITES, IZVESTIA SAYS

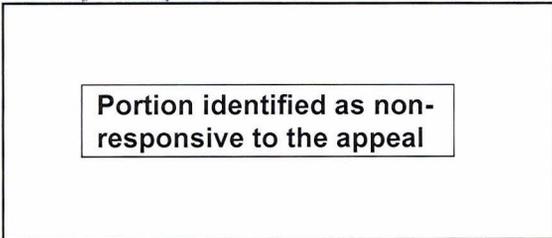
Is constantly oriented to ground.

COSMOS 128 ANOTHER RECCE SATELLITE

Carries high-resolution cameras.

SOVIET SILENCE ON LUNA 11 SUGGESTS NOT ALL IS WELL

Only slightly heavier than Luna 10, contrary to US press reports.



Portion identified as non-responsive to the appeal

COVER: Crew of Soviet BADGER bomber, (from Red Star) (OFFICIAL USE ONLY)  
NOTE: Pages 28, 30, 31, 34 and 35 of this issue are blank.

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significant  
intelligence  
on space  
developments  
and trends

### Cosmos 122 More Sophisticated than US Weather Satellites, Izvestia Says

Izvestia recently claimed that Cosmos 122, Soviet weather satellite, is better than the US's counterpart, Essa, in that:

- Cosmos 122 is constantly oriented toward the Earth, while Essa is not.
- Cosmos 122 furnishes operational information on radiation and cloud cover of the darkened side of the Earth, while the US is collecting only experimental information.

Izvestia said that Cosmos 122 (see page 33) carries 3 types of weather instrumentation:

- TV for transmitting video of the Earth's cloud cover. (The number of lines per frame, an important factor in resolution, was not stated.)
- IR video, which operates in the 8- to 12-micron region, for showing cloud cover on the darkened side of the Earth and for comparing IR video with TV video of daytime cloud cover.
- Actinometric apparatus which measures radiation from the Earth in 3 separate IR bands:
  - 1) 0.3-3 microns -- for measuring solar radiation reflected by the Earth (for use in determining the heat balance of the Earth).
  - 2) 8-12 microns -- for taking the temperature of cloud tops, which indicates their altitude.
  - 3) 3-30 microns -- for measuring total heat flux from the Earth into the atmosphere and into space.

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The Soviets claimed that computer processing of data transmitted by Cosmos 122 is completed before the satellite completes its next orbit. Radiation data fed into the computer is correlated with data on the satellite's position and then processed, the final product of which is a map showing the distribution of the intensity of radiation from the Earth.

The data furnished reportedly meets the standards set by experts of the international meteorological organization.

(Newspaper photos of TV and IR video from Cosmos 122 were shown in last week's WIR.)

(Izvestia; NORAD)

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### Cosmos 128 Another Recce Satellite

Cosmos 128, which the Soviets launched from Tyuratam at about 0951Z, 27 August, is believed to be another Soviet military reconnaissance satellite -- the 15th launched this year (not counting a failure in May).

Launched by the SS-6 ICBM booster-sustainer and injected into a 65-degree orbit by the heavy Venik upper stage, Cosmos 128 is believed to carry a camera system of high resolution (5-8 feet). It could, of course, accommodate equipment for other missions, in addition to photorecce.

The new vehicle will probably be de-orbited 4 September, after nearly 8 days in orbit.

The launch of Cosmos 128 in August maintains the launch rate of 2 recce satellites per month which has been noted since the first of the year. (NORAD)

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### Soviets Silence on Luna 11 Suggest Not All is Well

The Soviets' latest lunar probe, Luna 11, appears to be in orbit around the Moon and to be transmitting, but the Soviets' uncharacteristic silence on mission accomplishment suggests that not all is well with the vehicle.

Luna 11 was launched from Tyuratam at about 0804Z, 27 August, with the same type propulsion system used for all Soviet lunar and interplanetary attempts of the past 40 months. As has become customary, Luna 11 was first injected into a parking orbit with an inclination of 52 degrees and then, at an appropriate moment, injected into a lunar trajectory.

Total weight injected into lunar trajectory in connection with Luna 11



~~secret~~



was 3,616 pounds, according to Soviet announcements -- 91 more than the 3,525 pounds injected in connection with Luna 10. The US press, by comparing Luna 11's injection weight of 3,616 pounds with the 540-pound payload weight of Luna 10, concluded erroneously that Luna 11 was 7 times as large as Luna 10 and was, therefore, intended to accomplish some much more difficult mission, such as a return to Earth and landing.

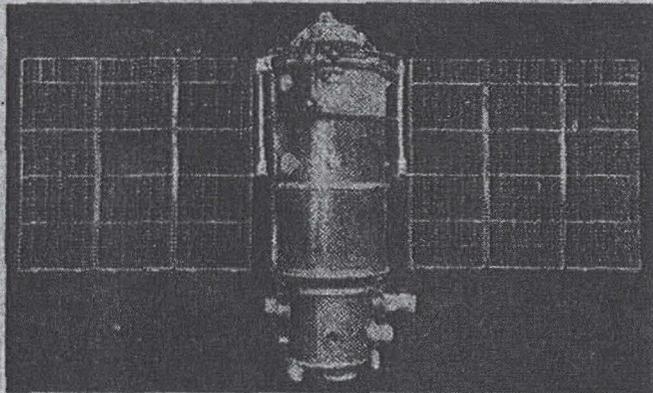
The payload weight of Luna 11 is probably only slightly more than that of Luna 10 -- perhaps enough to include equipment for a photographic mission in addition to instrumentation with which to repeat and verify the results of the Luna 10 mission.

(NORAD)

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Cosmos 122 -- the Soviets'  
First Operational Weather  
Satellite



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