

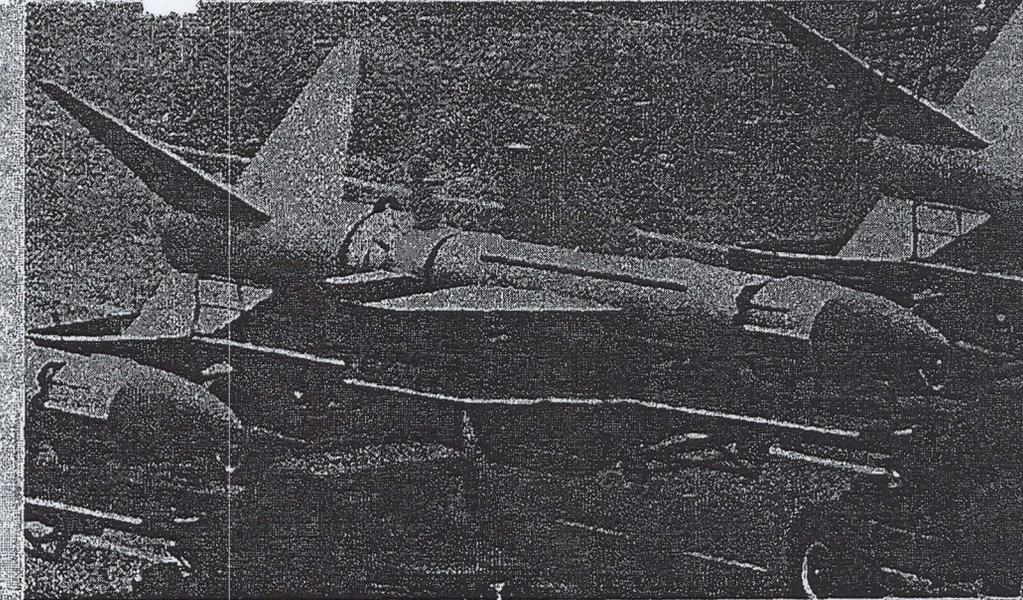
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# NORTH AMERICAN AIR DEFENSE COMMAND

# W Weekly I Intelligence R Review (U)



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## The WIR in Brief

Portion identified  
as non-responsive  
to the appeal

### Space

**COSMOS 29 LAUNCHED FROM TYURATAM,  
WILL PROBABLY BE RECOVERED**

14th apparently successful member of TT  
Cosmos series.

**SOVIET SPACE VEHICLES LISTED; OVER-ALL  
SPACE REPORT PRESENTED**

Life expectancies and transmitting frequencies  
listed.

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COVER: Soviet antimissile missile. From  
"Aviation Week" (OFFICIAL USE ONLY)  
NOTE: Pages 30, 31, 34, 35, and 38 of this  
issue are blank.

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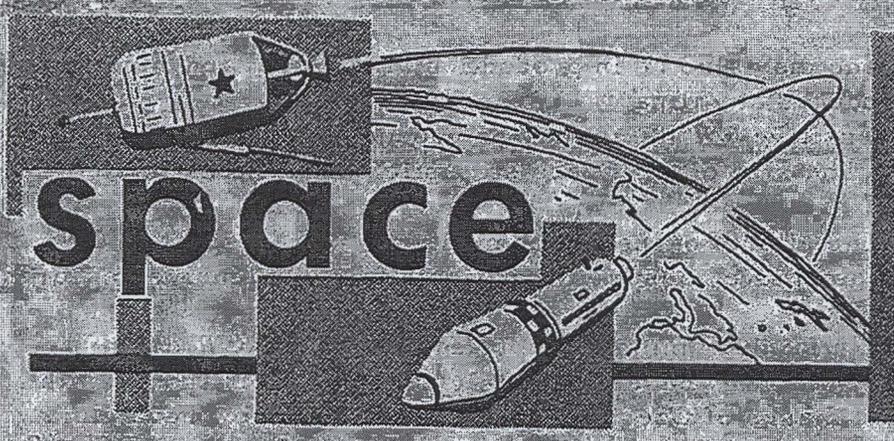
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space

significant  
intelligence  
on space  
developments  
and trends

### Cosmos 29 Launched from Tyuratam, Will Probably be Recovered

The Soviets launched Cosmos 29 from the Tyuratam (TT) missile test range at about 1021Z, 25 April 1964. It is believed to be the 14th in a series of recoverable Cosmoses launched from Tyuratam since the spring of 1962. (Not included in this 14 are two vehicles which lacked Cosmos attributes but to which the Soviets assigned Cosmos designations -- Nos. 21 and 27 -- apparently to conceal either their mission or the fact that they failed. For details, see p. 9, WIR 16/64.)

TASS has issued the usual announcement to the effect that the new Cosmos vehicle is part of a program designed to collect data on the near-Earth space environment and the Earth's cloud cover.

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- All the 1962 TT Cosmoses transmitted data on corpuscular radiation from the Sun.
- Cosmos 7, launched 28 July 1962, appears to have measured radiation given off by the artificial radiation belt created by the US's high-altitude nuclear blast of 9 July 1962; these measurements were apparently taken with a view to determining whether radiation from this belt would be dangerous to the cosmonauts who were to be sent into space shortly afterwards aboard Vostoks 3 and 4.
- At least four TT Cosmoses transmitted video signals. Demodulation of signals from Cosmos 9 disclosed photos of both cloud coverage and of ground areas in the Middle East.

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These vehicles could also have collected ELINT without giving any indication of doing so and could have tested life-support and instrumentation systems for manned flights. The TT Cosmos payloads are believed to be structurally similar to the Vostok manned vehicles.

Orbital parameters for Cosmos 29:

	<u>SPADATS</u>	<u>TASS</u>
Inclination	65.03 degrees	65.07 degrees
Period	89.5 minutes	89.52 minutes
Apogee	156.5 n.m.	166 n.m.
Perigee	119 n.m.	110 n.m.

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Cosmos 29 is similar to all 13 previous de-orbited Cosmoses launched from TT -- with respect to hour of the day at which launched, orbital parameters, electronic configuration, and radar signature. Its missions would appear to be the same as or similar to those of its predecessors.  
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### Soviet Space Vehicles Listed; Over-all Space Report Presented

Soviet payloads still in space as of 28 April 1964 are listed on page 33. Also shown are known or announced radio frequencies on which they are transmitting, as well as estimated life expectancies.

The over-all space vehicle situation as of 28 April 1964 follows:





	<u>US</u>	<u>UK</u>	<u>Can</u>	<u>USSR</u>	<u>Total</u>
Payloads in Earth orbit	86	2	1	9	98
Payloads in Sun orbit	5			4	9
Payloads in Earth-Moon orbit				1	1
Payloads resting on the Moon	2			1	3
Pieces of debris in Earth orbit	309		2	15	326
Pieces of debris in Sun orbit	4				4
Total objects in space	<u>406</u>	<u>2</u>	<u>3</u>	<u>30</u>	<u>441</u>
Objects decayed or de-orbited	186			172	358

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International Designation	Common Name	Launch Date	Life Expectancy or decay date	Transmitting Frequencies Intercepted (mc/s)
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Vehicles in Earth Orbit

1962 B. Theta 1	Cosmos 11	22 Oct 62	26 May 64	
1963-17A	Cosmos 17	22 May 63	May 65	
1963-43A	Polyot 1	1 Nov 63	Over 30 years	
1964-6A	Electron 1	30 Jan 64	Over 30 years	
1964-6B	Electron 2	30 Jan 64	Over 30 years	
1964-10A	Cosmos 25	27 Feb 64	Nov 65	
1964-13A	Cosmos 26	18 Mar 64	Nov 64	
1964-19B	Polyot 2	12 Apr 64	Over 3 years	
1964-21A	Cosmos 29	25 Apr 64	23 Jul 64*	

Vehicles in Heliocentric (Sun) Orbit

1959 Mu 1	Lunik 1	2 Jan 59	Indefinite	
1961 Gamma	Venus Probe	12 Feb 61	Indefinite	
1962 Beta Nu 3	Mars 1	1 Nov 62	Indefinite	
1964-16	Zond 1	2 Apr 1964	Indefinite	

Vehicles in Barycentric (Earth-Moon) Orbit

1963-8B	Lunik 4	2 Apr 63	Not computed	
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Vehicles Resting on Surface of Moon

1951 Xi 1	Lunik 2	12 Sep 59	Indefinite	
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\* Probably will be de-orbited.

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