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NORTH AMERICAN AIR DEFENSE COMMAND

WIR

WEEKLY INTELLIGENCE REVIEW (U)

K410 607-220

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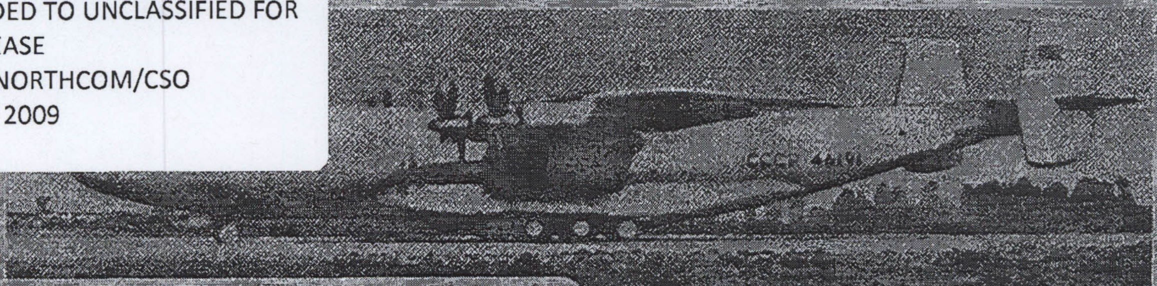

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WIR 27/65
2 Jul 1965

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Postal Registry No. 263788

NORAD Weekly Intelligence Review

Issue No. 27/65, 2 July 1965

The WIR in Brief

Portion identified as non-responsive to the appeal

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Space

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COVER: COCK/AN-22 transport (OFFICIAL USE ONLY)

NOTE: Pages 26, 27, 30 and 31 of this issue are blank.

Portion identified as non-responsive to the appeal

Missile-Range Firing Log

US radar detected the following space/missile launches during the period 7 June-29 June 1965:

Approximate Time & Date of Launch	Launch Vehicle	Launch Site	Range
0740Z, 8 Jun	Luna-6*	Tyuratam	Indefinite
1833Z, 11 Jun	Unidentified	Kapustin Yar	
0945Z, 15 Jun	Cosmos 68#	Tyuratam	Orbital
1300Z, 18 Jun	SS-4 MRBM	Kapustin Yar	1050 n.m.
19 Jun	Unidentified	Kapustin Yar	450 n.m.
0115Z, 24 Jun	Unknown	Tyuratam	3400 n.m.
0945Z, 25 Jun	Cosmos 69##	Tyuratam	Orbital
0531Z, 29 Jun	SS-7 ICBM	Tyuratam	3400 n.m.

*Launched by SS-6 ICBM booster-sustainer, injected into parking orbit by heavy Venik upper stage, injected into transfer trajectory toward Moon by 4th interplanetary stage.

#Launched by SS-6 ICBM booster-sustainer, injected into orbit by light Lunik upper stage.

Same as preceding but orbited by heavy Venik stage.

Firings not reported in previous logs:

- A rocket, apparently a vertical flight, was launched from Kapustin Yar at about 1707Z, 8 June 1965.

(Diyarbakir & Shemya RADINT)

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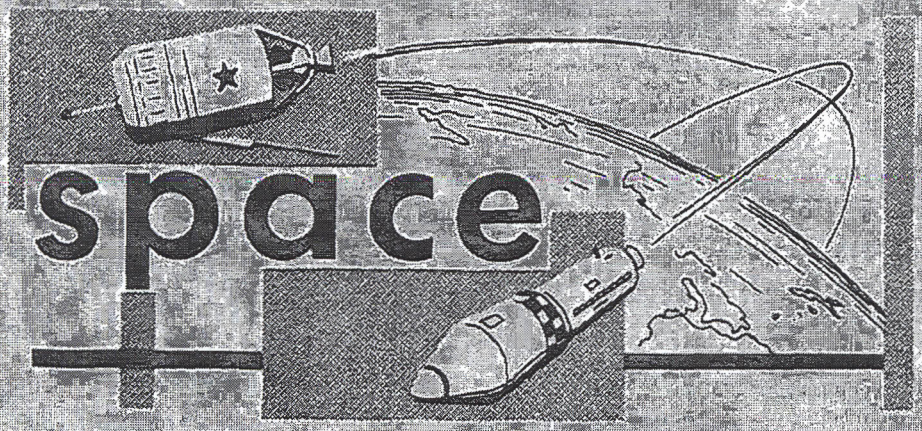

significant intelligence on space developments and trends

Cosmos 69 Launch Steps Up Pace of Photorecce Satellite Launches

The Soviets appear to have stepped up the pace of photoreconnaissance satellite launches, possibly because of the longer daylight hours available at this time of year. Their latest photorecce vehicle, Cosmos 69, was launched only 2 days after de-orbit of Cosmos 68; most such launches this year have followed de-orbit of the previous shot by 10-13 days.

Cosmos 69 was launched from Tyuratam at about 0945Z, 25 June. Its orbital parameters have been reported as follows:

	By SPADATS	By TASS
Inclination	64.89 degrees	65 degrees
Period	89.58 minutes	89.7 minutes
Apogee	302.8 kilometers	332 kilometers
	163 (n.m.)	179 (n.m.)
Perigee	206.3 kilometers	211 kilometers
	111 (n.m.)	114 (n.m.)

It will probably be de-orbited when it has spent nearly 8 days in orbit (3 July), if the pattern of the past year is followed.

Cosmos 69 was launched by the SS-6 ICBM and injected into orbit by the heavy Venik upper stage, thus continuing the pattern established early this year of alternating use of Venik and Lunik (light upper stage) injection vehicles. (The last photorecce satellite, Cosmos 68, was injected into orbit by a Lunik.) Vehicles injected by the Venik are believed to carry high-resolution (5-8') cameras.

(SPADATS; NORAD)

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Space Listing and Over-All Space Status Report

The over-all space-vehicle status as of 30 June 1965, was as follows:

	US	UK	Canada	Italy	USSR	Total
Payloads orbiting Earth	135	2	1	1	23	162
Payloads orbiting Sun	7				7	14
Payloads impacted on Moon	5				2	7
Debris orbiting Earth	373	1	2		59	435
Debris orbiting Sun	8					8
	528	3	3	1	91	626
Payloads decayed or de-orbited	157				81	238
Debris decayed or de-orbited	107				464	571
	792	3	3	1	636	1,435

A listing of Soviet payloads and their orbital parameters is shown on page 28.
SPADATS)
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Soviet Vehicles in Earth Orbit

Soviet Designation	Object No.	Date of Launch	Inclination to Equator (degrees)	Period (minutes)	Apogee (Kilometers #)	Perigee (Kilometers#)	Estimated Life Expectancy or Decay Date
Polyot 1	683	01 Nov 63	58.95	102.3	1,397.6	335.3	Over 25 years
Electron 1	746	30 Jan 64	60.93	169.3	7,113.4	403.3	Over 50 years
Electron 2	748	30 Jan 64	58.78	1,356.4	67,136.0	1,287.3	Over 50 years
Polyot 2	784	12 Apr 64	58.08	91.6	421.9	287.7	Over 5 years
Electron 3	829	10 Jul 64	60.85	168.1	7,021.8	403.0	Over 50 years
Electron 4	830	10 Jul 64	59.42	1,313.8	65,835.3	882.0	Over 50 years
Cosmos 41	869	22 Aug 64	66.01	714.8	39,459.2	750.8	Over 50 years
Cosmos 42	864	22 Aug 64	48.96	94.3	748.6	218.9	Sep 1966
Cosmos 43	867	22 Aug 64	48.94	94.3	741.8	221.6	Mar 1966
Cosmos 44	876	28 Aug 64	65.08	99.5	875.6	596.5	Over 50 years
Cosmos 49	913	24 Oct 64	48.93	90.1	313.2	232.9	Aug 1965
Cosmos 51	947	09 Dec 64	48.76	91.3	428.5	248.4	Dec 1965
Cosmos 53	983	30 Jan 65	48.75	97.5	1,061.4	216.1	1967
Cosmos 54	1089	21 Feb 65	56.08	104.5	1,678.8	265.9	Over 10 years
Cosmos 55	1090	21 Feb 65	56.05	104.8	1,698.8	266.8	Over 10 years
Cosmos 56	1091	21 Feb 65	56.10	104.0	1,622.7	267.7	Over 10 years
Cosmos 58	1097	26 Feb 65	65.03	96.8	644.9	565.1	Over 50 years
Cosmos 61	1267	15 Mar 65	56.04	104.7	1,687.7	267.3	Over 10 years
Cosmos 62	1268	15 Mar 65	56.06	104.5	1,672.4	265.6	Over 10 years
Cosmos 63	1269	15 Mar 65	56.08	103.9	1,617.2	266.4	Over 10 years
Molniya 1	1324	23 Apr 65	65.49	720.3	39,934.7	544.4	Over 50 years
Cosmos 69	1421	25 Jun 65	64.88	89.6	310.6	206.3	

Soviet Space Probes

			Inclination to Ecliptic	Period (days)	Aphelion (AUs*)	Perihelion (AUs*)	
Luna 1	112	02 Jan 59	00.01	449.5	1.315	.9766	Indefinite
Luna 2	114	12 Sep 59	(not applicable -- impacted on the Moon)				
Venus 1	80	12 Feb 61	00.58	300.	1.019	.7183	Indefinite
Mars 1	450	01 Nov 62	2.683	519.1	1.603	.9237	Indefinite
Lunik 4	566	02 Apr 63	(Not computed; originally in barycentric orbit, probably now in heliocentric orbit)				
Zond 1	785	02 Apr 64	(Data not available)				
Zond 2	945	30 Nov 64		512	1.54	.9840	Indefinite
Luna 5	1366	09 May 65	(not applicable -- impacted on the Moon)				
Luna 6	1393	08 Jun 65	Unknown				

#1 km equals 0.54 nautical miles or 0.62 statute miles.

*AU -- astronomical units. Roughly, 1 AU = 93 million statute miles (mean distance from Sun to Earth).

(SPADATS)