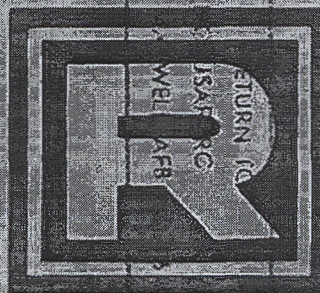
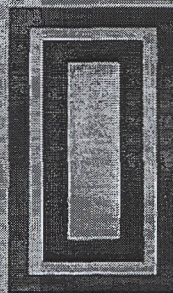




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NORTH AMERICAN AIR DEFENSE COMMAND

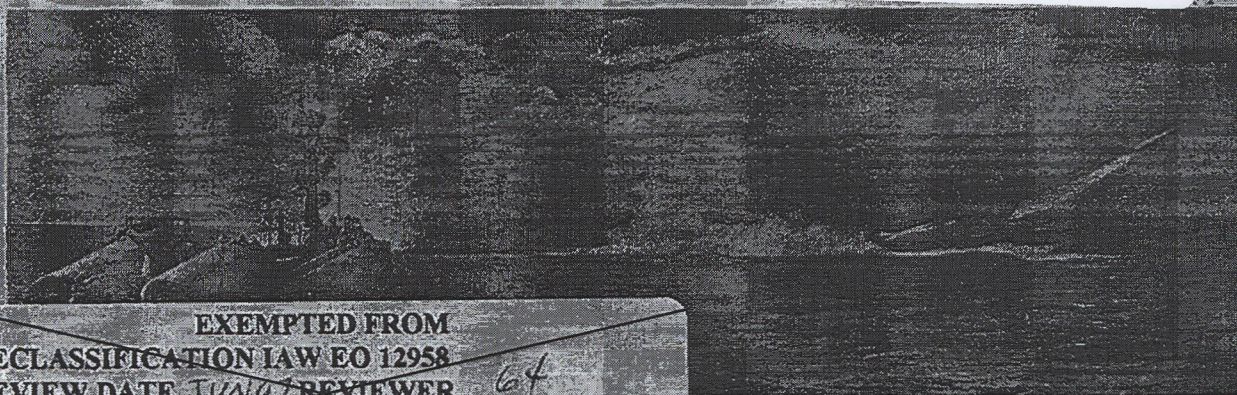


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WEEKLY INTELLIGENCE REVIEW (U)

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# NORAD

Weekly  
Intelligence  
Review

Issue No. 31/65, 30 July 1965

## The WIR in Brief

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### Space

COSMOS 76 SECOND KY LAUNCH THIS MONTH  
Much like 4 KY Cosmoses launched last year.  
SPACE LISTING AND OVER-ALL SPACE STATUS  
REPORT

Portion identified  
as non-responsive  
to the appeal

COVER: Missile being fired to Soviet  
patrol boat (Red Star) (OFFICIAL  
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NOTE: Pages 28, 29, 32, 33, 36,  
and 37 of this issue are blank.

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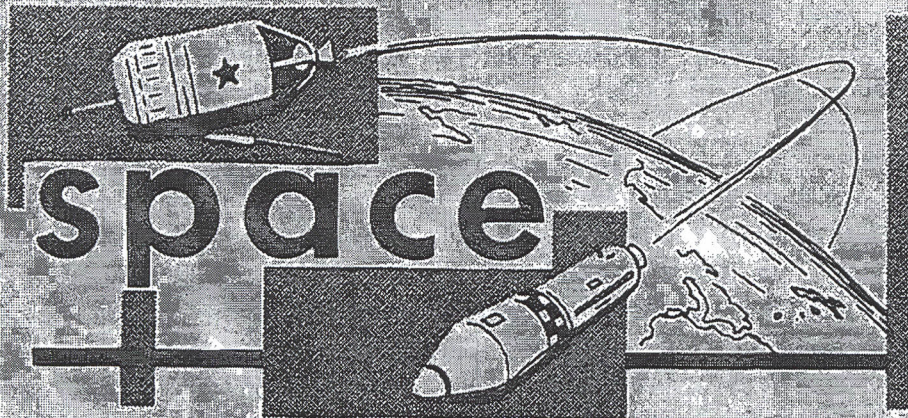
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significant  
intelligence  
on space  
developments  
and trends

### Cosmos 76 Second KY Launch this Month

Cosmos 76, which was launched from Kapustin Yar (KY) at about 0435Z, 23 July, is believed to be a nonrecoverable scientific research satellite, as was announced by TASS 4 hours after launch.

Orbital parameters have been reported as follows:

	<u>By SPADATS</u>	<u>By TASS</u>
Inclination	48.82 degrees	48.8 degrees
Period	92.16 minutes	92.2 minutes
Apogee	519.7 kilometers (279 n. m.)	530 kilometers (285 n. m.)
Perigee	249.2 kilometers (134 n. m.)	261 kilometers (140 n. m.)

The new vehicle is the third KY Cosmos launched this year, the second this month, and the 22d since the launch of Cosmos 1 on 16 March 1962. (All other Cosmoes have been launched from Tyuratam; while some of them may have collected some scientific data, most have been photorecce vehicles, testbeds, or failures of one type or other which still achieved Earth orbit.)

The orbit of Cosmos 76 suggests renewed Soviet interest in collecting data at altitudes studied previously by 4 KY Cosmoes which were launched last year -- Nos. 25, 26, 31, and 36. These had apogees of 217-284 n. m. and perigees of 123-147 n. m.

The last previous KY Cosmos, No. 70, had an apogee of 623 n. m. and perigee of 120 n. m.

(SPADATS; DIA; NORAD)

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## Space Listing and Over-all Space Status Report

The over-all space-vehicle status as of 27 July 1965 was as follows:

	<u>US</u>	<u>UK</u>	<u>Canada</u>	<u>Italy</u>	<u>USSR</u>	<u>Totals</u>
Payloads orbiting Earth	140	2	1	1	30	174
Payloads orbiting Sun	7				8	15
Payloads impacted on Moon	5				2	7
Debris orbiting Earth	379	1	2		66	448
Debris orbiting Sun	8					8
<b>TOTALS</b>	<b>539</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>106</b>	<b>652</b>
Payloads decayed or de-orbited	153				81	234
Debris decayed	109				471	580
<b>TOTALS</b>	<b>801</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>658</b>	<b>1466</b>

A listing of Soviet payloads which have not decayed or been de-orbited is shown on page 38, along with pertinent data.

(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	58.90	102.3	1,397.1	335.2	Over 50 years
Electron 1	746	30 Jan 64	60.92	169.3	7,097.7	418.7	Over 50 years
Electron 2	748	30 Jan 64	58.65	1,356.4	67,084.0	1,338.7	Over 50 years
Polyot 2	784	12 Apr 64	58.04	91.6	417.8	286.1	Over 5 years
Electron 3	829	10 Jul 64	60.83	168.1	7,023.2	401.4	Over 50 years
Electron 4	830	10 Jul 64	59.37	1,313.8	65,806.1	911.0	Over 50 years
Cosmos 41	869	22 Aug 64	66.07	714.9	39,427.0	785.1	Over 50 years
Cosmos 42	864	22 Aug 64	48.96	93.9	708.3	218.4	Mar 1966
Cosmos 43	867	22 Aug 64	48.94	94.0	706.0	219.3	Mar 1966
Cosmos 44	875	28 Aug 64	65.07	99.5	873.1	599.0	Over 50 years
Cosmos 49	913	24 Oct 64	48.94	89.7	290.0	223.8	Sep 1965
Cosmos 51	947	09 Dec 64	48.75	91.1	411.2	245.0	Dec 1965
Cosmos 53	983	30 Jan 65	48.71	97.3	1,033.0	217.9	1967
Cosmos 54	1089	21 Feb 65	56.05	104.5	1,674.9	261.5	Over 10 years
Cosmos 55	1090	21 Feb 65	56.04	104.7	1,691.2	264.5	Over 5 years
Cosmos 56	1091	21 Feb 65	56.04	103.8	1,615.3	260.6	Over 10 years
Cosmos 58	1097	26 Feb 65	65.03	96.8	643.3	566.6	Over 50 years
Cosmos 61	1267	15 Mar 65	56.04	104.6	1,682.5	267.6	Over 10 years
Cosmos 62	1268	15 Mar 65	56.07	104.4	1,668.2	266.3	Over 10 years
Cosmos 63	1269	15 Mar 65	56.05	103.9	1,615.2	264.7	Over 10 years
Molniya 1	1324	23 Apr 65	65.21	720.3	39,875.9	604.4	Over 50 years
Cosmos 70	1431	02 Jul 65	48.74	98.2	1,120.1	224.5	1967
Cosmos 71	1441	16 Jul 65	56.04	95.3	541.4	522.2	26 Qr. 1967
Cosmos 72	1442	16 Jul 65	56.06	95.9	587.7	538.2	30 Qr. 1967
Cosmos 73	1443	16 Jul 65	56.07	95.6	557.5	536.8	28 Qr. 1967
Cosmos 74	1444	16 Jul 65	56.04	96.2	616.8	538.8	30 Qr. 1967
Cosmos 75	1445	16 Jul 65	56.03	96.5	644.5	539.8	24 Qr. 1967
Proton 1	1446	16 Jul 65	64.35	92.3	601.6	175.6	
Cosmos 76	1464	23 Jul 65	48.82	92.2	519.7	249.2	

## Soviet Space Probes in Heliocentric Orbit

			Inclination to Ecliptic	Period (days)	Aphelion (AU*)	Perihelion (AU*)	
Luna 1	112	02 Jan 59	0.01	449.5	1.315	0.9766	Indefinite
Venus 1	80	12 Feb 61	0.58	300	1.019	0.7183	Indefinite
Mars 1	450	01 Nov 62	2.683	519.1	1.603	0.9237	Indefinite
Luna 4	566	02 Apr 63	Not computed				Indefinite
Zond 1	785	02 Apr 64	Not computed				Indefinite
Zond 2	945	30 Nov 64		512	1.54	0.9840	Indefinite
Luna 6	1393	08 Jun 65	Not computed				Indefinite
Zond 3	1464	18 Jul 65	Not computed				Indefinite

## Payloads Impacted on Moon

			Location (Lunar Coordinates) (Very Approximate)
Luna 2	114	12 Sep 59	3000N-0000
Luna 5	1366	09 May 65	2500S-1800E

\*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).

Soviet Payloads  
in space, as of  
1200Z, 23 July  
1965



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