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NORAD

Weekly
Intelligence
Review

Issue No. 28/67, 14 July 1967

The WIR in Brief

Portion identified as non-responsive to the appeal

Space

4th MOLNIYA TRANSMITS 211 DAYS, A RECORD FOR SOVIET COMMUNICATIONS SATELLITES

5th MOLNIYA, launched 24 May, is still transmitting.

RECCE COSMOS 168 DE-ORBITED
Is 12th recce flight this year.

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COVER: All-weather interceptor FISHBED
(From Red Star) (OFFICIAL USE ONLY)

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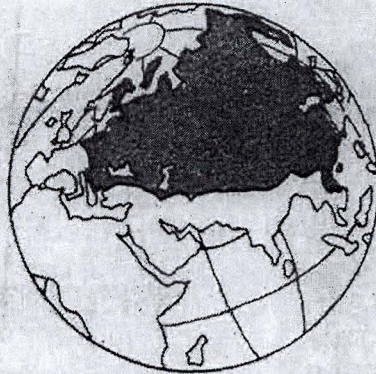
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COMMUNIST MILITARY CAPABILITIES



current
developments
and trends in
the armed forces
of the
Communist World

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28 Missiles, 7 Spacecraft Launched by USSR in June

The Soviets maintained a slightly higher-than-average level of missile/space-launch activity in June when they launched 28 missiles and seven spacecraft. Following is a list of the known launches:

<u>Launch Time and Date</u>	<u>Vehicle</u>	<u>Launch Point</u>	<u>Range (n. m.)</u>
1040Z, 01 June	Cosmos 162	Tyuratam	Orbital
0618Z, 02 June	SS-5, IRBM	Kapustin Yar	2,000
1203Z, 02 June	SS-4, MRBM	Kapustin Yar	1,050
0503Z, 05 June	Cosmos 163	Kapustin Yar	Orbital
1304Z, 05 June	SS-4, MRBM	Kapustin Yar	1,050
1854Z, 05 June	SS-4, MRBM	Kapustin Yar	470
0246Z, 06 June	SS-9, ICBM	Tyuratam	7,100
1205Z, 07 June	SS-4, MRBM	Kapustin Yar	1,050

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<u>Launch Time and Date</u>	<u>Vehicle</u>	<u>Launch Point</u>	<u>Range (n. m.)</u>
1300Z, 08 June	Cosmos 164	Plesetsk	Orbital
1343Z, 09 June	SS-4, MRBM	Kapustin Yar	1,050
0240Z, 12 June	Venus 4	Tyuratam	Sun Orbit
1808Z, 12 June	Cosmos 165	Plesetsk	Orbital
1622Z, 13 June	SS-4, MRBM	Kapustin Yar	1,050
0408Z, 14 June	SS-11, ICBM	Tyuratam	3,400
0902Z, 14 June	SS-12, SRBM	Kapustin Yar	274
0255Z, 15 June	SS-9, ICBM	Tyuratam	7,100
0444Z, 16 June	Cosmos 166	Kapustin Yar	Orbital
0933Z, 16 June	SS-4, MRBM	Kapustin Yar	1,050
0236Z, 17 June	Cosmos 167	Tyuratam	Orbital
0730Z, 17 June	KY-6, R&D	Plesetsk	3,100
1115Z, 20 June	SS-5, IRBM	Kapustin Yar	2,000
0415Z, 21 June	SS-11, ICBM	Tyuratam	3,400
1903Z, 21 June	SS-7, ICBM	Plesetsk	3,100
2230Z, 21 June	SS-4, MRBM	Kapustin Yar	1,050
0612Z, 23 June	SS-4, MRBM	Kapustin Yar	1,050
2230Z, 23 June	SS-12, SRBM	Kapustin Yar	450
0235Z, 27 June	SS-9, ICBM	Tyuratam	3,400
0604Z, 27 June	SS-4, MRBM	Kapustin Yar	1,050
1619Z, 28 June	SS-4, MRBM	Kapustin Yar	1,050
0430Z, 29 June	SS-7, ICBM	Plesetsk	6,750
0444Z, 29 June	SS-7, ICBM	Plesetsk	6,750
0500Z, 29 June	SS-7, ICBM	Plesetsk	6,750
0632Z, 29 June	SS-12, SRBM	Kapustin Yar	348
0839Z, 29 June	SS-4, MRBM	Kapustin Yar	1,050
1536Z, 29 June	SS-12, SRBM	Kapustin Yar	450

Outstanding events of the month:

- 5 ICBMs were fired to a mid-Pacific impact area -- 2 large SS-9s and 3 medium SS-7s.
- The 3 SS-7s launched on 29 June from Plesetsk were ripple-fired to the mid-Pacific about 15 minutes apart. This was Plesetsk's first ripple firing and its first firing into the Pacific, and the first time that all missiles of a Soviet ripple firing flew successfully.

The program which involved 24 firings of the SS-3 MRBM from Kapustin Yar in April and May did not continue into June; there were no SS-3 firings during the month. It has been suspected that these were training firings prior to deployment of this missile -- once considered obsolete -- to the Sino-Soviet frontier, or elsewhere; another possibility is that the launches were sub-



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caliber training firings for crews of larger liquid-propellant missiles.

All the June launches were for troop training except the KY-6 firing of 17 June from Plesetsk and three SS-4 firings from Kapustin Yar which may have been involved in a special re-entry vehicle test.

The slow rate of R&D firings of the KY-6 -- one per month -- suggests either that the Soviets are experiencing difficulties with their solid-propellant program or that the KY-6 may be a special test vehicle rather than a new weapon system.

Rangeheads: Kapustin Yar launched 18 missiles (SRBMs to IRBMs) and 2 small spacecraft during June.

Tyuratam launched five ICBMs, a Venus probe, a Venus-probe failure (Cosmos 167), and a photorecce satellite.

Plesetsk launched five ICBMs, an apparent research satellite, and a photorecce satellite.

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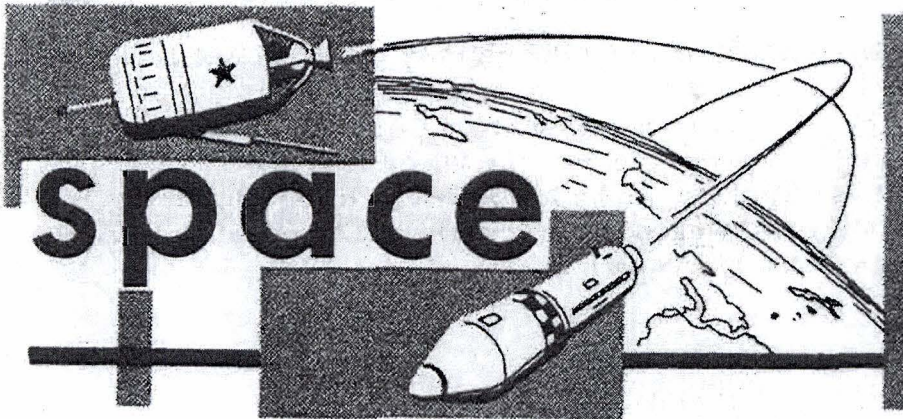
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significant
intelligence
on space
developments
and trends

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4th Molniya Transmits 211 Days, a Record for Soviet Communications Satellites

The 4th Molniya, a communications satellite which the Soviets launched from Tyuratam on 20 October 1966, transmitted for 211 days, a record for Soviet communications satellites. The vehicle is now believed to be non-operative, [REDACTED]

None of the first three Molnias was active for more than 120 days, possibly owing to the effects of radiation on unshielded components.

The 5th Molniya, launched 24 May 1967, is still transmitting.

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Recce Cosmos 168 De-Orbited

Cosmos 168, a military reconnaissance satellite which the Soviets launched from Tyuratam at about 0600Z, 4 July, was de-orbited during the early part of Revolution 129 on 12 July, after nearly eight days in orbit. It is believed to have impacted in the USSR at about 0537Z.

Cosmos 168 was the Soviets' 12th reconnaissance satellite launched this year. The launch rate for this year is the same as last year's -- about two per month.

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