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**NORTH AMERICAN AIR DEFENSE COMMAND**

**W I R**

K410.607-295

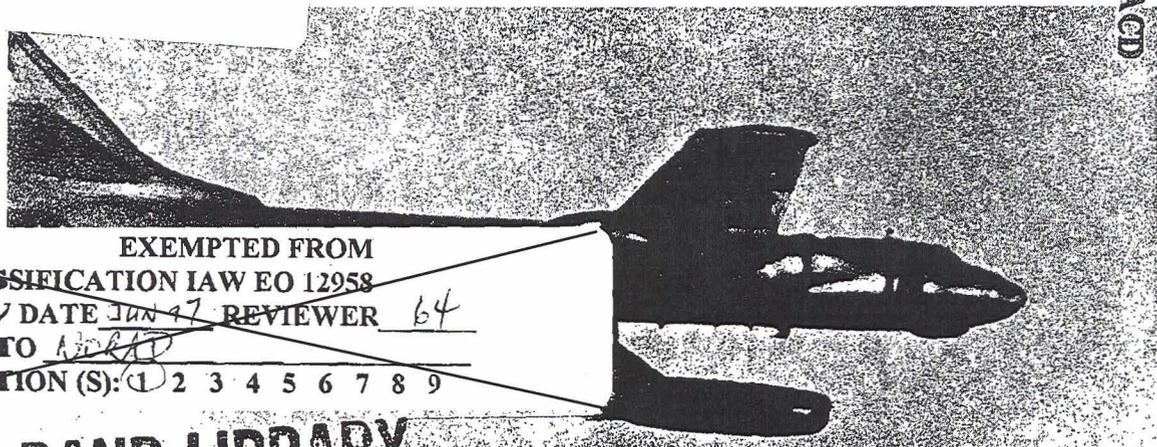
**WEEKLY INTELLIGENCE REVIEW (U)**

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# NORAD

Weekly  
Intelligence  
Review

RETURN TO HQ USAF/H MAXWELL AFB 3611-2-6678	K410. 607-295
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Issue No. 41/66, 14 October 1966

## The WIR in Brief

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Portion identified as non-responsive to the appeal

MISSILE RANGE FIRING LOG  
For period 24 Aug-6 Oct.

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### Space

NEW GROUP, BORN OF FEUDING, EXPECTED TO STRENGTHEN BIOASTRONAUTICS RESEARCH

Would be coordinating, not operating, group.

NEW POINTING CONTROL WILL HELP PUT SOVIETS ON PAR WITH U.S. IN SOLAR STUDIES

Used on rockets but could also be used on satellites.

WEATHER SATELLITE DATA MEETS AGREEMENT TERMS FOR QUALITY, NOT FOR TIMELINESS

Soviets begin to live up to terms of agreement, but reluctantly.

CLAIM THAT COSMONAUTS DID NOT SWEAT DURING 'EVA' CONTRADICTS EARLIER STORY

Leonov reported considerable exertion during his brief space walk.

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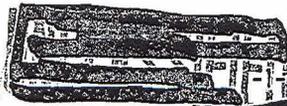
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COVER: Launch of ASM by BADGER (from Ogonek) (OFFICIAL USE ONLY)  
NOTE: Pages 28, 30, 31, 34, 35, 38, 39, 42, 43, and 44 of this issue are blank.



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## Missile Range Firing Log

US sensors detected the following Soviet space/missile launches by RADINT or telemetry during the period 24 August - 6 October 1966.

<u>Approximate Time &amp; Date of Launch</u>	<u>Vehicle</u>	<u>Launch Site</u>	<u>Range (n. m.)</u>
0427Z, 24 Aug	SS-11, ICBM	Tyuratam	3400 n. m.
0804Z, 24 Aug	Luna 11*	Tyuratam	In lunar orbit
0414Z, 25 Aug	SS-11, ICBM	Tyuratam	3400 n. m.
0549Z, 25 Aug	SS-7, ICBM	Tyuratam	3400 n. m.
0418Z, 27 Aug	SS-11, ICBM	Tyuratam	5100 n. m.
0915Z, 27 Aug	SS-4, MRBM	Kapustin Yar	950 n. m.
0951Z, 27 Aug	Cosmos 128**	Tyuratam	Orbital
1305Z, 01 Sep	SS-4, MRBM	Kapustin Yar	950 n. m.
1707Z, 01 Sep	SS-12, MRBM	Kapustin Yar	450 n. m.
0444Z, 06 Sep	SS-11, ICBM	Tyuratam	5100 n. m.
0342Z, 12 Sep	SS-11, ICBM	Tyuratam	3400 n. m.
1339Z, 12 Sep	SS-4, MRBM	Kapustin Yar	1050 n. m.
0527Z, 16 Sep	SS-11, ICBM	Tyuratam	3400 n. m.
0915Z, 16 Sep	SS-7, ICBM	Plesetsk	3100 n. m.
2235Z, 17 Sep	SS-9 ICBM plus 3d stage	Tyuratam	Orbital
0749Z, 26 Sep	SS-4, MRBM	Kapustin Yar	1050 n. m.
0257Z, 27 Sep	Probable SS-9 ICBM	Tyuratam	Failure
0530Z, 27 Sep	SS-7, ICBM	Tyuratam	3400 n. m.
0645Z, 27 Sep	Unidentified	Kapustin Yar	1050 n. m.
0604Z, 28 Sep	SS-5, IRBM	Kapustin Yar	2000 n. m.
0418Z, 01 Oct	SS-11, ICBM	Tyuratam	3400 n. m.
0604Z, 01 Oct	SS-4, MRBM	Kapustin Yar	1050 n. m.
0645Z, 01 Oct	SS-7, ICBM	Tyuratam	3400 n. m.
0508Z, 05 Oct	SS-4, MRBM	Kapustin Yar	1050 n. m.
0522Z, 05 Oct	SS-11, ICBM	Tyuratam	3400 n. m.
0250Z, 06 Oct	SS-9, ICBM	Tyuratam	5100 n. m.

\*Launched by SS-6 ICBM, injected into Earth orbit by Venik upper stage, injected into trajectory toward Moon by 4th "interplanetary" stage.

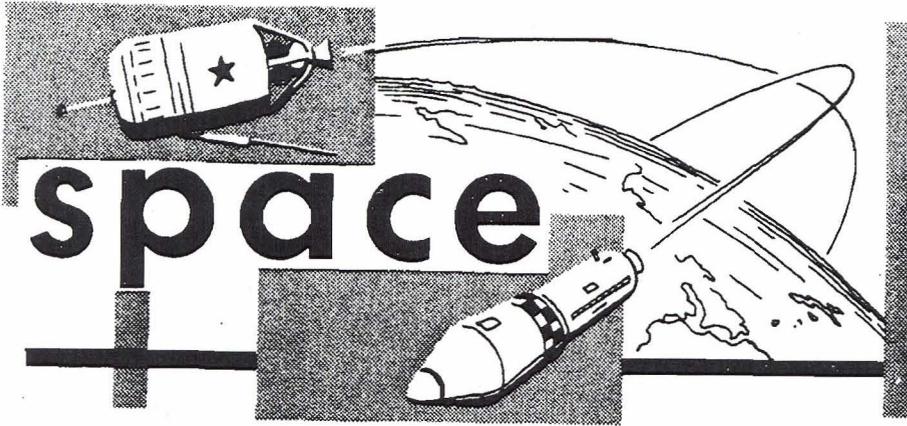
\*\*Launched by SS-6 ICBM, injected into Earth orbit by Venik upper stage.

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significant  
intelligence  
on space  
developments  
and trends

### New Group, Born of Feuding, Expected to Strengthen Bioastronautics Research

An "Institute for Space Physiology and Medicine" has been formed jointly by the Soviet Academy of Sciences (AS) and the Academy of Medical Sciences (AMS) in a reorganization growing out of a fierce power struggle between AS and AMS bioastronautics scientists which was forcibly halted about 3 years ago by Academician Sisakyan.

Reflecting a fairly wide range of scientific interests and enjoying fairly complete autonomy of leadership and direction, the new organization will be primarily a planning and coordinating group rather than an operating group. It will, for example, have no special laboratories or physical facilities of its own.

One of its tasks will be sponsorship of such national meetings as the All-Union Conference on Aviation and Space Medicine, the second of which was held under AS sponsorship in Moscow last May. National conferences of this size covering the gamut of basic biomedical research specifically oriented toward aerospace problems have not been held by any other nation.

The new organization should facilitate the evaluation and channeling of key ideas and concepts from the whole spectrum of Soviet research at the basic support level to the bioastronautics research administrators and policymakers involved in the Soviet man-in-space effort. It will also provide a point of authority in the USSR which should facilitate the negotiation of exchange agreements now being considered by the USSR and the US.

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## New Pointing Control Will Help Put Soviets on Par with U. S. in Solar Studies

The Soviets, in obtaining X-ray photographs of the Sun recently, used a new servomechanism to point the experimental equipment at the Sun with a reported accuracy of 20 seconds of arc. The accuracy claimed appears reasonable from an analysis of the flight data. A great improvement over equipment previously used by the Soviets, the new apparatus should, for the first time, enable the USSR to match US studies of solar activity.

This improvement would be applicable to earth satellite vehicles as well as to the research rockets on which it was introduced.

The pointing control probably directed the whole experimental package toward the Sun, instead of a mirror system which would direct X-rays into the instrumentation.

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## Weather Satellite Data Meets Agreement Terms for Quality, Not for Timeliness

The Soviets are beginning, in footdragging fashion, to live up to the terms of their agreement with the US for the exchange of information from weather satellites.

The Soviets launched Cosmos 122 on 25 June 1966, in the presence of French President de Gaulle, but did not announce that it was a weather satellite until 19 August, nearly two months later. The Soviets then began to supply the US with cloud-cover analyses which they claimed satisfied the terms of the agreement. After being reminded by US officials that the agreement called for transmitting the actual pictures as well as the analyses, the Soviets on 11 September began to transmit Cosmos 122 video daily on the special weather-communications circuit that parallels the so-called Kremlin-White House "hot line." (The first picture transmissions were sent following resumption of 167-mhz video from Cosmos 122 after a week of silence.)

The Soviet video as received in Washington is, of course, degraded by the facsimile transmission, particularly with respect to contrast. However, picture resolution is good -- an estimated 0.5 mile per scan line, roughly equivalent to that of the US's Nimbus. But the pictures are being received at least 12 hours after being taken by the Soviet satellite, a delay which reduces their operational usefulness. The bilateral agreement calls for delays no greater than 6 hours for operational purposes.

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## Claim That Cosmonauts Did Not Sweat During EVA Contradicts Earlier Story

Soviet Cosmonaut-Physician Boris Yegorov claimed last month at a Eurospace conference in Geneva that Soviet space walkers, unlike those of the US, were not bothered by sweat or fatigue during EVA (extravehicular activity). His claim contradicts the earlier statement of the USSR's only space walker to date, Cosmonaut Leonov, to the effect that in his brief (10-minute) period of EVA he experienced a marked acceleration of heart rate, his activity required considerable physical exertion, and sweat was running down his forehead and cheeks after he re-entered the cabin of Voskhod 2.

The difference in cabin atmospheres, which Yegorov cited as the reason for no sweat and no fatigue by Soviet cosmonauts, should have no influence on the physical cost of EVA.

Prolonged exertion obviously is accompanied by fatigue and overheating during EVA by men wearing either the Soviet or US space suits which have been used to date.

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