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February 1964

EVALUATIONS OF SOVIET
SURFACE-TO-SURFACE
MISSILE DEPLOYMENT

11TH REVISION

A Report of the Deployment Working Group
of the
Guided Missiles and Astronautics Intelligence Committee



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The Guided Missiles and Astronautics Intelligence Committee (GMAIC) wishes to express its appreciation to the National Photographic Interpretation Center for its assistance in the editing, illustration, and publication of this report.

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PREFACE

This report, formerly published bimonthly by the GMAIC Deployment Working Group (DWG) in mimeograph form, has been expanded to include additional data. It will continue to be published bimonthly in this new format.

Dissemination of the report was previously limited to holders of the DWG report, Soviet Surface-to-Surface Missile Deployment. Because the information contained herein is both supplemental and self-sustaining, distribution will no longer be limited to holders of the above report.

The current format provides a comprehensive, ready-reference listing of all ICBM, IRBM, and MRBM deployment locations, types of site configurations, photographic references, estimated construction and operational status, and other evaluations by the DWG. These data constitute the majority view of the DWG membership, and may not correspond precisely to individual assessments by each member. Additional data may be added to future revisions.

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INTRODUCTION

This report is the eleventh revision of Evaluations of Soviet Surface-to-Surface Missile Deployment prepared by the Deployment Working Group of the Guided Missiles and Astronautics Intelligence Committee. The tenth revision, dated 1 December 1963 and disseminated under control number A-0004295, can be destroyed in accordance with existing instructions for handling

GLADKAYA
Launch Site E(6), Type IIIA
SVOBODNYI
Launch Site G(7), Type IIIA
Launch Site H(8), Type III D

The ICBM launch sites have been designated by type, for the purpose of standardization, as shown and explained in Figure 2.

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[redacted] materials.

[redacted] continuing analysis of previous missions and other sources have provided additional information on the Soviet ballistic missile deployment program. The new data are reflected in Table 1 and in the estimates and operational status shown in Tables 2 and 3. Cutoff date for information contained in this report

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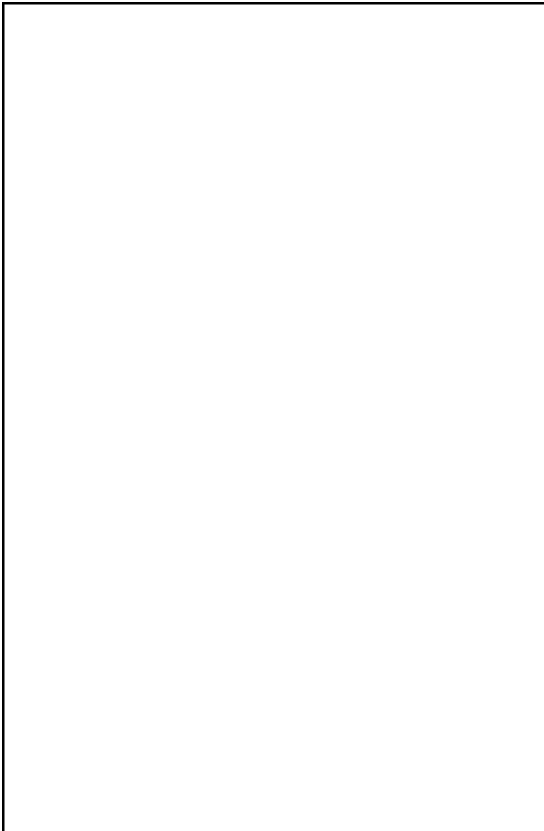
[redacted]

SOVIET ICBM DEPLOYMENT

At 2 of the 18 ICBM complexes, 2 new hard sites and one new soft site have been identified [redacted] In addition, 3 hard sites, 2 previously evaluated as possible sites and one as a probable site, have been confirmed. These newly identified ICBM sites raise the total number of confirmed and probable deployed sites to 105 (238 launchers). Additionally, one site is carried in the possible category. Of the 238 launchers, almost 170 are considered to be operational. It is significant to note that in addition to Plesetsk we are now carrying three other complexes (Itatka, Verkhnyaya Salda, Yoshkar-Ola) with all sites estimated as operational and no new construction apparent. See Figure 1 for locations of deployed ICBM complexes.

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The new ICBM launch sites are located at the following complexes:



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Tyumen Complex

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Launch Areas A and C at Tyumen appeared to be complete [redacted]. The lack of activity continues at Launch Area B; however, we will continue to carry the site for an additional period of time.

Omsk Complex

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We are carrying Launch Site A at Omsk as operational in Table 2. This is the first type IIIB site estimated to be operational. We base this judgment on an average [redacted] construction timing for Type IIIA sites, and also on the fact that backfilling had commenced when this site was last observed [redacted].

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SOVIET MRBM/IRBM DEPLOYMENT

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[redacted] covered a large majority of all deployed MRBM and IRBM complexes; however, no new sites were identified. A reevaluation of [redacted] revealed one newly identified soft IRBM site at Bayram-Ali. See Figure 3 for locations of deployed MRBM/IRBM complexes. Typical configurations of the launch sites are shown in Figure 4.

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Although we cannot exclude the possibility of a few new starts, it is the opinion of the DWG that the initiation of new construction of both hard and soft MRBM and IRBM launch sites has ceased. Photographic evidence indicates that no new starts have occurred [redacted].

Number of Launch Silos at Hard MRBM/IRBM Launch Sites

As previously reported, we have been analyzing information relative to the number of launch silos at hard MRBM/IRBM sites. Having considered all available evidence, we conclude that both more likely contain three launch silos than the two previously reported. Tables 1 and 3 have been modified accordingly. We think it unlikely that the MRBM sites contain a fourth launch silo.

Open Silo at Gelli Hard Launch Site No 3

[redacted] coverage of the Gelli IRBM Launch Complex furnished the first high-resolution photography of an open silo at any hard missile site. This photography provides us with additional detail, and indicates that the silo cover operates on rails (Figure 5).

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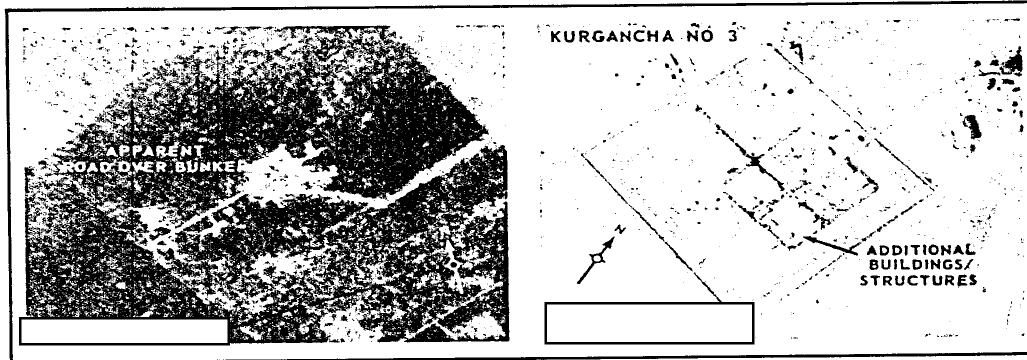
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FIGURE 5. OPEN LAUNCH SILO AT GELLI HARD LAUNCH SITE NO 3.



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FIGURE 6. ATTEMPTED CAMOUFLAGE DECEPTION AT HARD MRBM IRBM SITES.

Fixed Field-Type Sites

We have identified a ninth fixed field-type site at 56-39N 23-53E near the Jelgava MRBM Complex (Figure 7). Of the 9 sites, 6 are near MRBM sites, 2 are near IRBM sites, and one appears to be isolated. These sites consist of from one to four pads, each in a cleared area.

Of the two sites near IRBM complexes (Smorgon and Vainode), the facility near Vainode was present prior to construction of the IRBM site, and now appears to be abandoned. Although we are unable to determine the purpose of these areas, we do not believe that this type of position can support IRBM firings.

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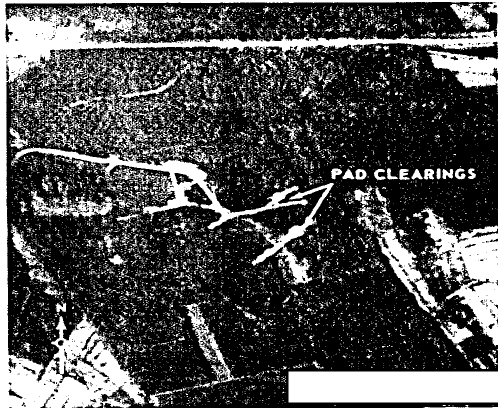


IRBM Site at Bayram-Ali

A further readout

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revealed a completed soft IRBM site at 37-46-00N 62-12-00E near Bayram-Ali (Figure 8). This is the seventh MRBM/IRBM launch site identified which does not contain the usual housing and support facilities. Others in this category include the MRBM sites at Kraskino, Marina Gorka, Rozhdestvenka, and Uzhgorod; and the IRBM sites at Belomorsk and Zhuravka. It is not possible to determine their operational status or how they fit into the deployment pattern. The launch sites appear to be complete, however, and we continue to carry them in Tables 1 and 3.



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FIGURE 7. FIXED FIELD-TYPE SITE NEAR JELGAVA MRBM COMPLEX.

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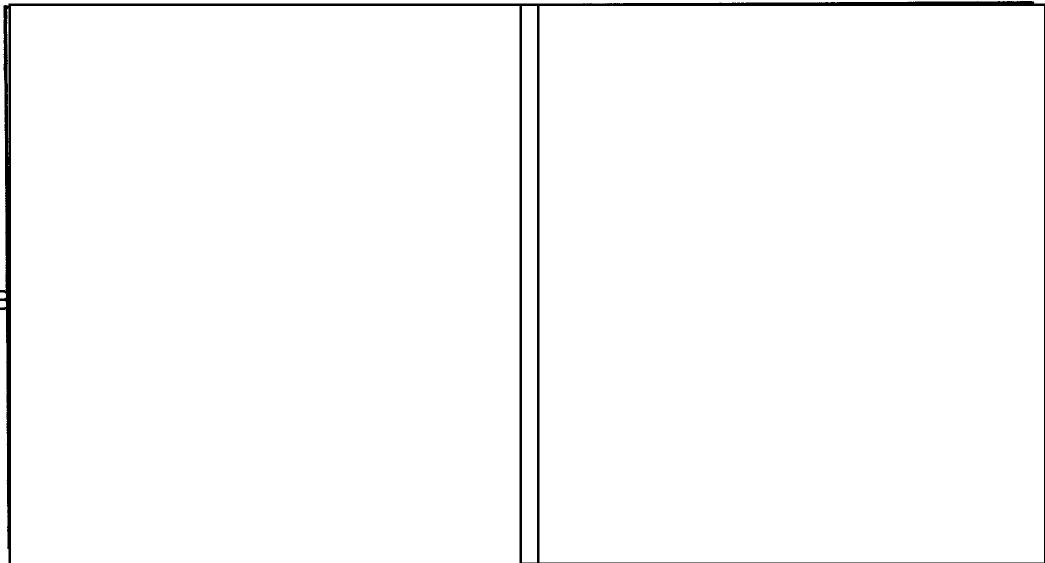


FIGURE 8. IRBM SITE NEAR BAYRAM-ALI.

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TABLE 1. SUMMARY OF ESTIMATED STATUS OF IDENTIFIED ICBM AND MRBM IRBM LAUNCHERS AT DEPLOYED COMPLEXES*

Type	Sites	Launchers	Operational	U C	Type	Sites	Launchers	Operational	U C
ICBM					MRBM IRBM				
I	3	4	4	0	I	84	336	336	0
II A	5	10	10	0	II	52	208	208	0
II B	29	58	58	0	III	15	60	60	0
II C	8	16	14	2	IV (MRBM)	21	63	60	3
II D	30	60	50	10	IV (IRBM)	19	57	36	21
III A	26	78	30	48					
III B	4	12	3	9					
TOTAL	105	238	169	69	TOTAL	191	724	700	24

*See Tables 2 and 3 for details. Figures include a third launch silo at Type III ICBM, and Type IV IRBM and MRBM sites.

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