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April 1964

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EVALUATIONS OF SOVIET SURFACE-TO-SURFACE MISSILE DEPLOYMENT

12TH REVISION

A Report of the Deployment Working Group

of the

Guided Missiles and Astronautics Intelligence Committee

25X1

[redacted]

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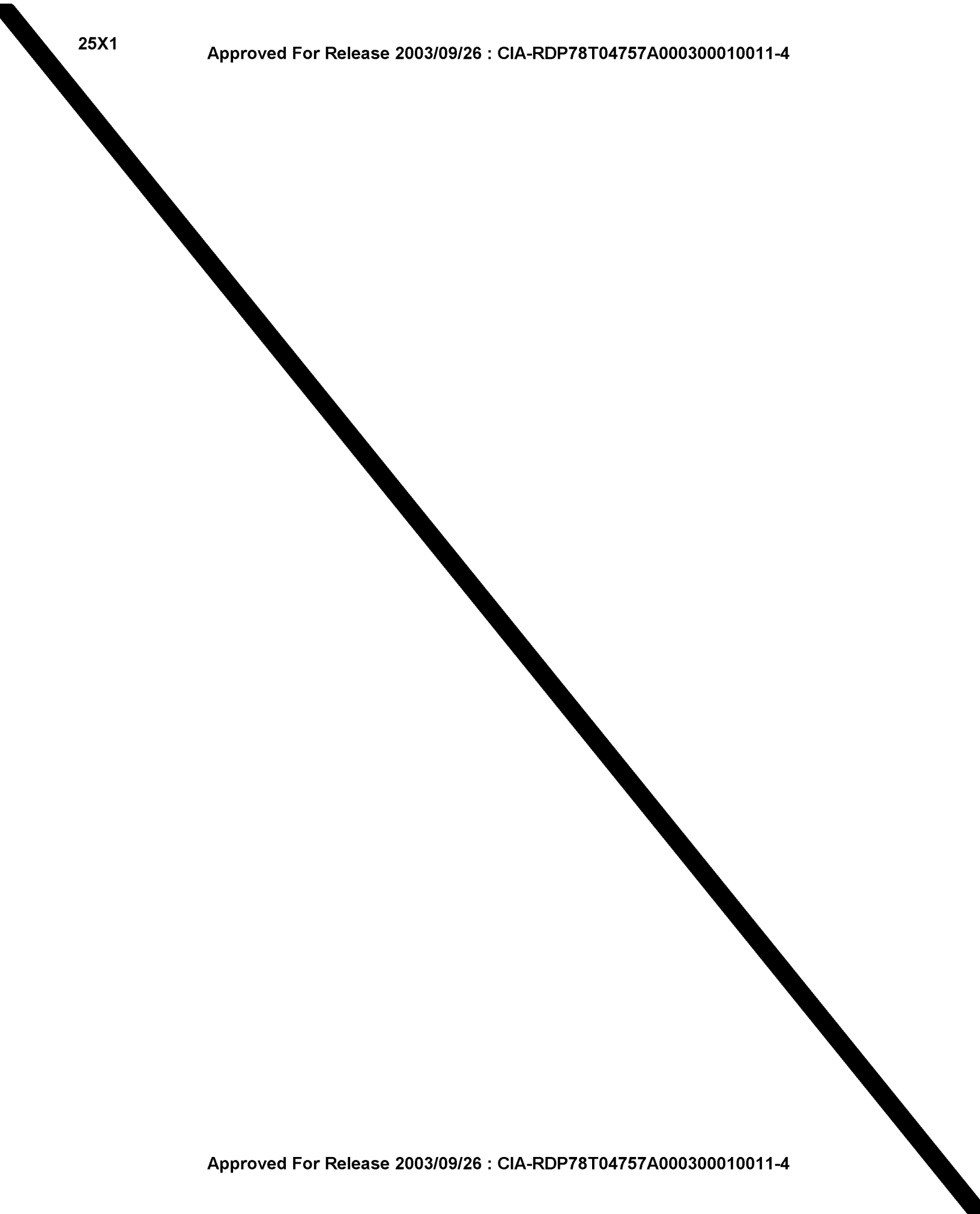
The Guided Missiles and Astronautics Intelligence Committee (GMAIC) wishes to express its appreciation to the National Photographic Interpretation Center for its assistance in the editing, illustration, and publication of this report.



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PREFACE

This report, published bimonthly by the GMAIC Deployment Working Group (DWG), 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.

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.

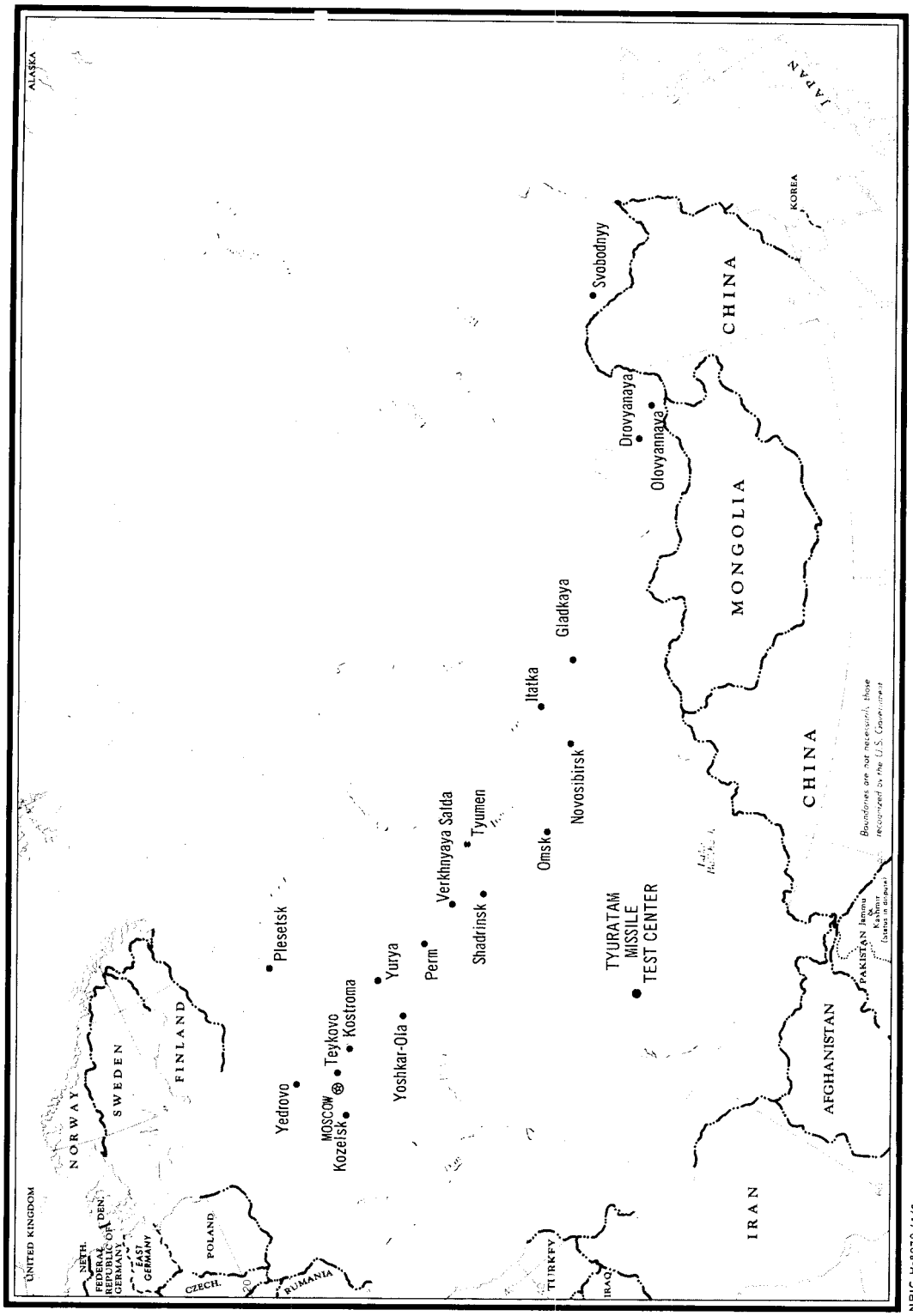

FIGURE 1. DEPLOYMENT OF SOVIET ICBM COMPLEXES.

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INTRODUCTION

This report is the twelfth 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 eleventh revision, dated [redacted] and disseminated under control number [redacted] can be destroyed in accordance with existing instructions for handling [redacted] materials.

[redacted] and 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 estimated operational status shown in Tables 2 and 3. Cutoff date for information contained in this report is [redacted]

SOVIET ICBM DEPLOYMENT

Only one new site, a completed Type IID, was detected on the two [redacted] On the other hand, [redacted] confirmed that one Type IIC site has been inactive since the [redacted] and has probably been abandoned. Therefore, the total number of confirmed and probable deployed sites remains at 105 (238 launchers). Additionally, one site is carried in the possible category. Of the 238 launchers, about 185 are considered to be operational. We are now carrying a total of five complexes (Itatka, Plesetsk, Verkhnyaya Salda, Yedrovo, Yoshkar-Ola) with all sites estimated as operational. In addition, all 18 complexes now are estimated to have some operational launchers. Of particular significance is the fact that our current appraisal indicates that only one or two more sites will attain operational status [redacted] See Figure 1 for locations of deployed ICBM complexes.

Evaluation of [redacted] has resulted in changes at the following complexes:

ADDITION: NOVOSIBIRSK
Launch Site E(5), Type IID, Complete
DELETION: TYUMEN
Launch Site B(1), Type IIC, Abandoned

The ICBM launch sites have been designated by type, as shown and explained in Figure 2.

Novosibirsk Complex

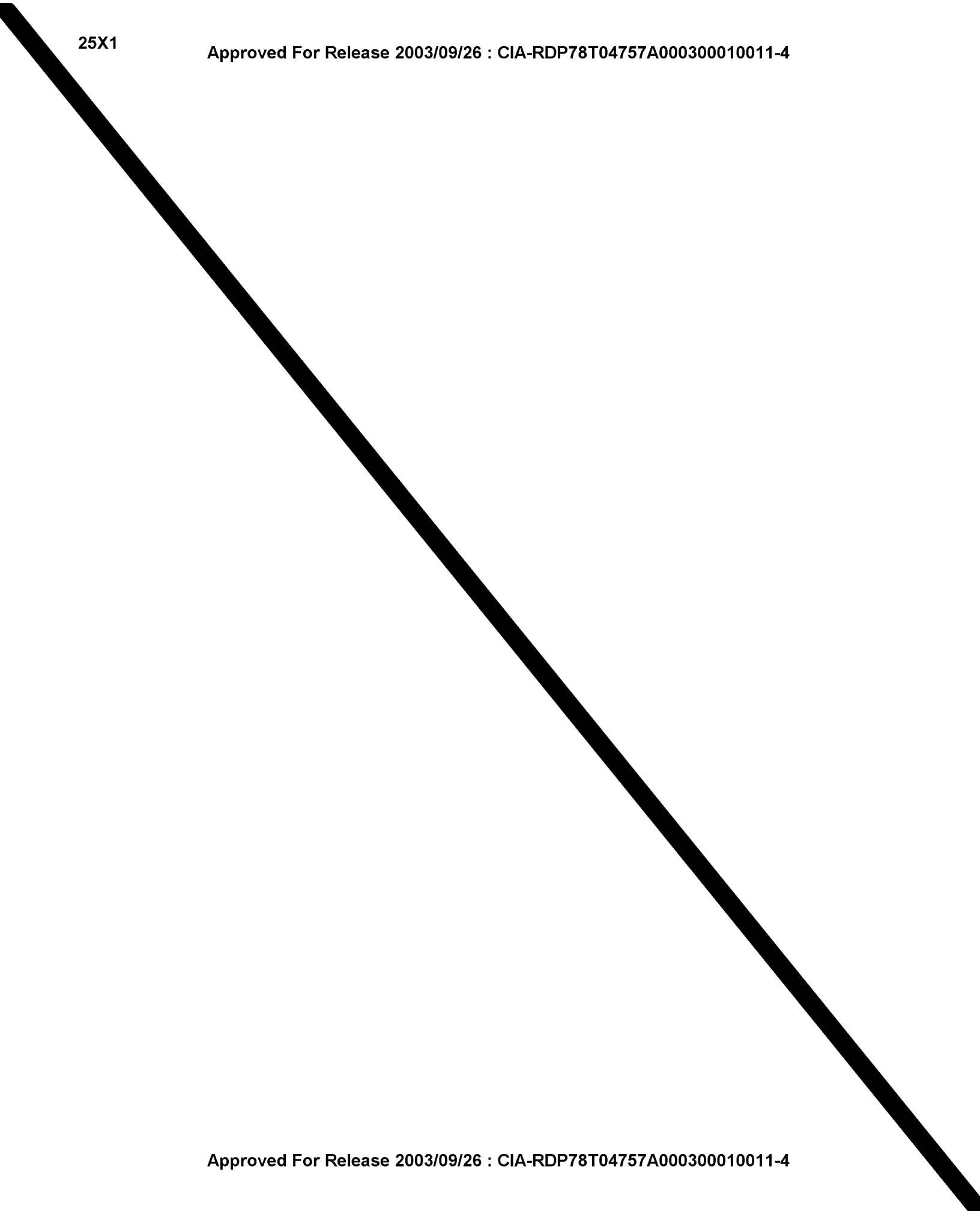
[redacted] provided the first good photographic coverage of the Novosibirsk Complex in 14 months (since [redacted] and revealed a newly completed Type IID soft site, Launch Site E(5). Other new construction at this complex was negated by this mission [redacted] The identification of this site represents the first occasion in which a site has escaped detection while under construction. Since all complexes have been covered by adequate photography since [redacted] it is unlikely that additional undetected completed sites exist at identified complexes.

Tyumen Complex

Good quality coverage of the Tyumen Complex on [redacted] confirmed that Launch Site B(1) has been inactive since the [redacted] and has probably been abandoned. We are therefore dropping this site from our tables.

Omsk Complex

In the 11th revision we estimated that Omsk Launch Site A(1), a Type IIIB, was probably com-



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plete based on construction timing and the fact that backfilling had commenced when this site was last observed on [redacted] Non-stereo photography on [redacted] revealed that the site was probably still in a very late stage of construction in [redacted] We estimate that the site was completed during [redacted] and continue to carry it in our tables as operational.

Launch Site B(3), currently carried as a possible site, appeared inactive on [redacted] although an excavation is still apparent. Initial activity in this area was noted on [redacted] Occasional activity has been noted on subsequent missions, but no construction progress has been observed. We will continue to carry this site as possible pending confirmation that construction activity has, in fact, ceased.

Olovyannaya Complex

[redacted] revealed that Launch Site A(1) at Olovyannaya is complete. Since we estimate that Launch Site A(1) at Omsk is also complete, all 18 complexes are now estimated to have some operational launchers.

Kozelsk Complex

Good coverage of Launch Site C(1) at Kozelsk on [redacted] reveals that this Type IIIB site may be inactive. This site was first identified on [redacted] when it appeared that a Type IIC site under construction at this location had been abandoned and replaced with a hard configuration. Only an excavation was apparent at that time. [redacted] indicates that construction may not have progressed during the period between the [redacted] missions. Pending further coverage, we are continuing to carry this site as being under construction.

Yedrovo Complex

Yedrovo Site I(3) was covered on [redacted] but poor quality photography precluded a further assessment of the function of this installation (see 11th Revision).

Soft Site Deployment

Usable photographic coverage of 12 of the 18 ICBM complexes since [redacted] reveals that no new soft site construction has been initiated at these complexes since [redacted] All but two soft sites are now carried as operational. This evidence indicates that construction of new soft sites, at least in known configurations, has stopped. However, future coverage of the remaining six complexes will be required to confirm this judgment.

Tyuratam Missile Test Center

[redacted] provided clear, good-quality photography of the rangehead at Tyuratam. Significant changes include the construction of an electronic facility at Launch Site D-2(9), completion of Launch Site G-1(7), and probable completion of Launch Complex H(8).

At Launch Site D-2(9), construction appears to be in the final stages (Figure 3). In addition, an electronic facility similar to that at Complex H(8) in both configuration and orientation is under construction immediately to the south. It is interesting to note that Flim Flam backtracking of the modified SS-7 missiles fired on [redacted] indicates the general vicinity of Launch Complex D as the launch point.

Both launch pads and associated facilities at Launch Site G-1(7) appear to be complete (Figure 4). There is currently no evidence to indicate the function for which this complex has been designed and constructed.

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FIGURE 3. LAUNCH SITE D-2, TYURATAM.

Launch Complex H(8), apparently a semi-hardened launch facility, is probably complete (Figure 5). Flim Flam backtracking to this general area suggests that the modified SS-7 missile fired on [redacted] may have been launched from this facility. Proximity of this launch area to Launch Complex C(3), however, precludes an accurate determination of the launch area involved.

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FIGURE 4. LAUNCH SITE G-1, TYURATAM.

Test Range Activity

Since our last report, ten ICBMs have been launched from Tyuratam. These include three SS-7s, one modified SS-7, five SS-8s, and one as yet uncategorized.

[redacted] a triple launch of SS-8 missiles was attempted within a 31-minute period. The first impacted in the mid-Pacific, the second apparently was either canceled or suffered an early inflight failure 10 minutes after the first, and the third impacted on Kamchatka. This was the first attempt by the Soviets to launch three ICBMs in a short period of time since [redacted] when 2 of 3 attempted SS-7s were successfully launched in a 10-minute time period to the mid-Pacific impact area. It is interesting to note that in both triple launch attempts, the second missile either was canceled just prior to launch, or had an early inflight failure.

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FIGURE 5. LAUNCH COMPLEX H, TYURATAM.

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An SS-8 fired to Kamchatka on [redacted] apparently can be backtracked to Launch Complex F, the first [redacted] evidence that this complex is operational.

SOVIET MRBM/IRBM DEPLOYMENT

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[redacted] covered a majority of all deployed MRBM and IRBM complexes and no new sites were identified; however, two sites previously carried as possible were confirmed. These are Sledyuki, a soft MRBM site, and Novosysoyevka 3, a hard IRBM launch site. See Figure 6 for locations of deployed MRBM/IRBM complexes. Typical configurations of the launch sites are shown in Figure 7.

The site at Sledyuki is one of the category which has no associated housing or support facilities. The other sites in this category are Bayram-Ali, Belomorsk, Kraskino, Marina Gorka, Rozhdestvenka, Uzhgorod and Zhuravka. We still are unable to determine their operational status or their place in the deployment pattern. However, these sites are carried as complete in Tables 1 and 3.

Camouflage/Deception

We are continuing our appraisal of Soviet attempts at camouflaging MRBM/IRBM sites and will report our conclusions in our next revision.

Construction Stoppage or Slowdown

An apparent stoppage or slowdown in construction has come to light at 2 hard MRBM and 8 hard IRBM sites. Based on construction timing experience at similar sites, these 10 are considerably behind schedule and appear to be making very slow progress toward completion. We are unable to account for the slow pace at which construction is proceeding. Following is a chart of activity at these sites:

[redacted]

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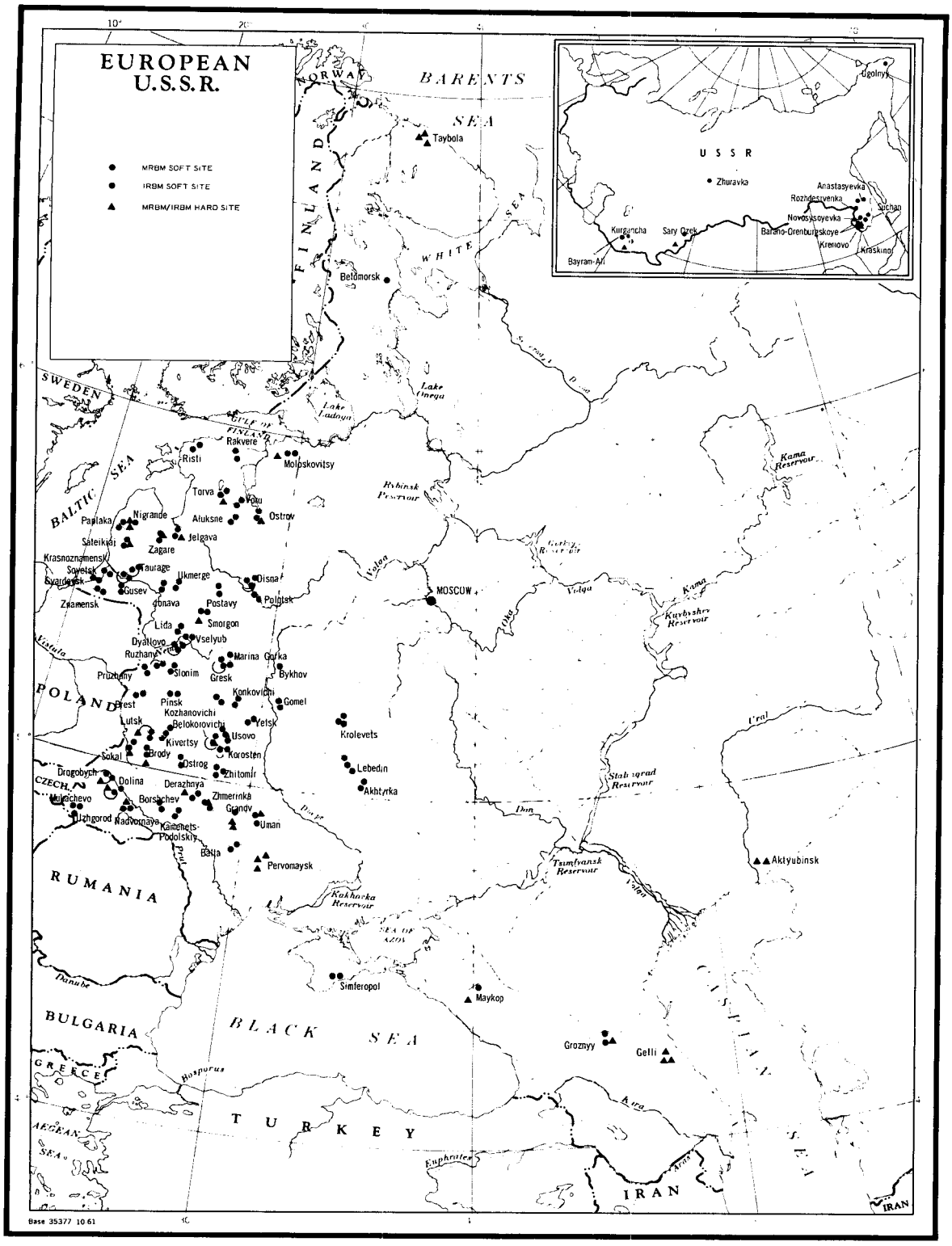
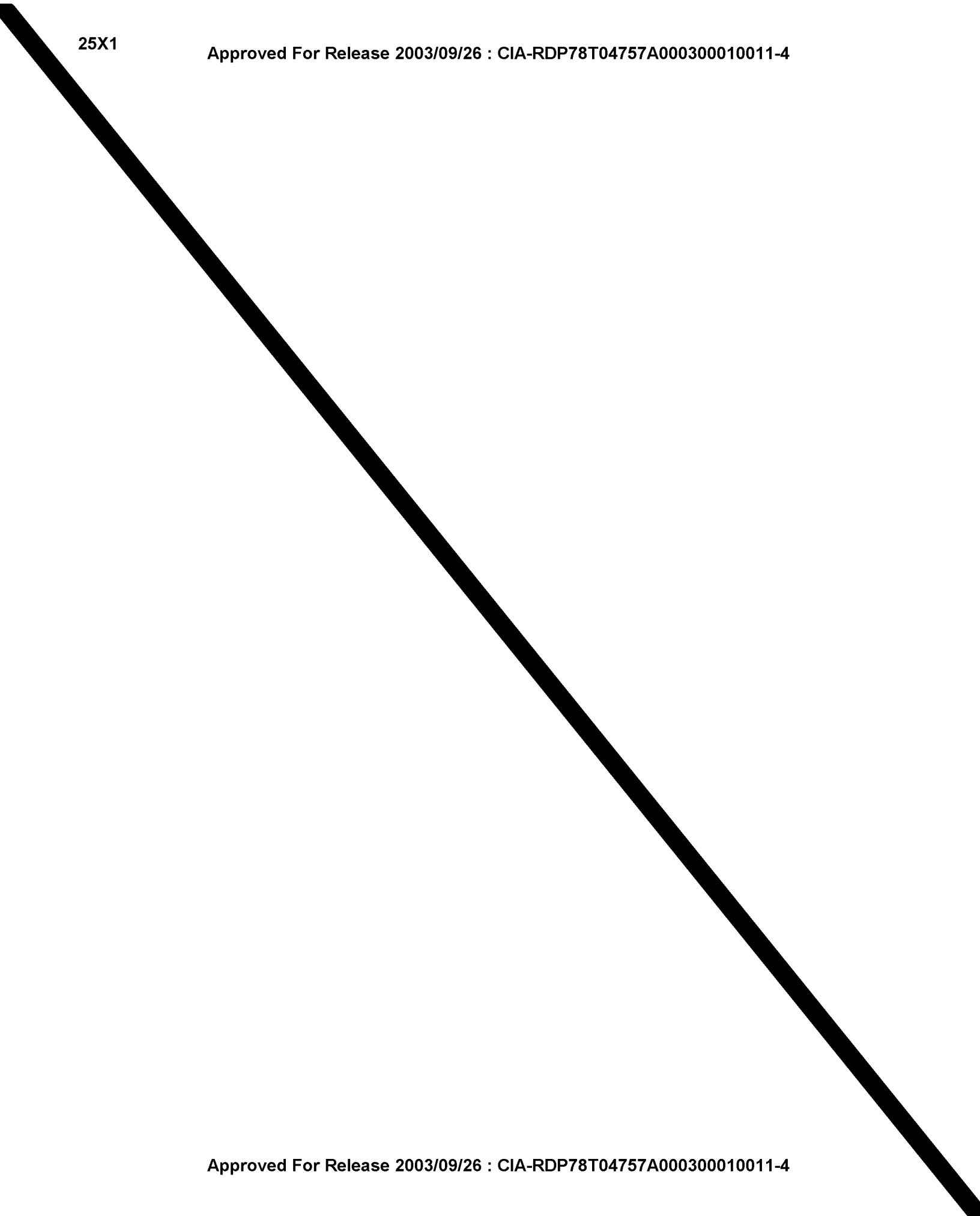


FIGURE 6. DEPLOYMENT OF SOVIET MRBM/IRBM COMPLEXES.



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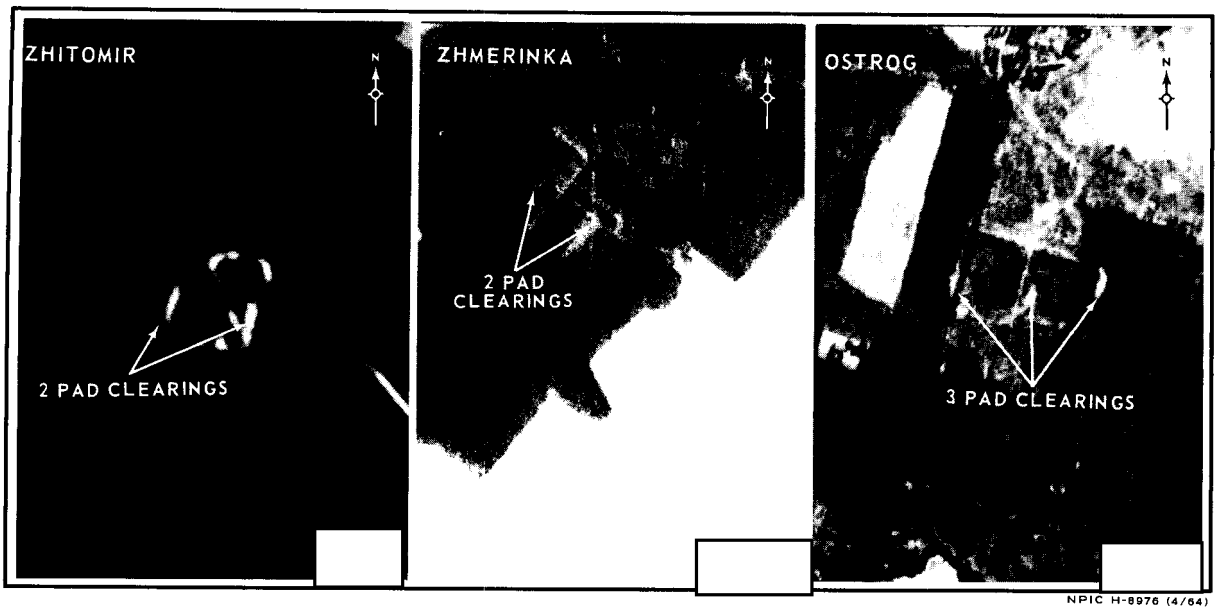

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FIGURE 8. FIXED FIELD-TYPE SITES NEAR ZHITOMIR, ZHMERINKA, AND OSTROG.

Fixed Field-Type Sites

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Continuing evaluation of [redacted] has revealed two additional fixed field-type sites, one each at Berdichev (Zhitomir MRBM Complex) and Vinnitsa (Zhmerinka MRBM Complex). An additional site of this category was identified near the Ostrog MRBM Complex at Slavuta on [redacted] (Figure 8). These sites, which raise the total of fixed field-type sites to 12, are all located (except one) in the vicinity of permanent MRBM sites. The other sites of this kind are found at:

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Anastasyevka (Anastasyevka Complex)
Gelvonai (Ukmerge Complex)
Jelgava (Jelgava Complex)
Khmelnitskiy (Derazhnya Complex)
Sivtsy (Postavy Complex)
Smorgon (Smorgon Complex)
Tulskaya (Maykop Complex)
Vainode (probably abandoned) (Nigrande Complex)
Yarmolintsy (None)

Nine of the sites are near MRBM sites, two are near IRBM sites, and one occupies an isolated location which cannot be associated with any nearby MRBM or IRBM site.

Of the three new sites, Berdichev was pres-

[redacted]

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Continuing scan of [redacted] has resulted in the identification of 3 additional pad clearings at the Gelvonai fixed field-type site, making a total of 4 pad clearings at this facility.

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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					
IIA	5	10	10	0					
IIB	29	58	58	0	I	84	336	336	0
IIC	7	14	14	0	II	53	212	212	0
IID	31	62	58	4	III	15	60	60	0
IIIA	26	78	39	39	IV (MRBM)	21	63	57	6
IIIB	4	12	3	9	IV (IRBM)	20	60	36	24
TOTAL	105	238	186	52	TOTAL	193	731	701	30

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

TABLE 2. SUMMARY EVALUATION OF SOVIET ICBM DEPLOYMENT

Location *	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negated		First Coverage		Latest Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
DROVYANAYA																			
Site A (1)		51-24N 113-00E	IIB	2											63				Operational
Site B (2)		51-23N 113-07E	IIIA		3										64				Operational
Site C (3)		51-20N 113-01E	IID	2														63	Operational
Site D (4)		51-28N 113-04E	IID	2											64				Operational
Site E (5)		51-22N 112-50E	IIIA		3											65			U/C
Site F (6)		51-19N 112-53E	IIIA		3											65			U/C
GLADKAYA																			
Site A (3)		56-20N 92-20E	IID	2														63	Operational
Site B (2)		56-25N 92-25E	IID	2											64				Operational
Site C (4)		56-30N 91-58E	IIIA		3												65		U/C
Site D (5)		56-20N 92-13E	IIIA		3											65			U/C
Site E (6)		56-25N 92-12E	IIIA		3												65		U/C
ITATKA																			
Site A (1)		56-58N 85-33E	IIB	2													62		Operational
Site B (2)		57-01N 85-39E	IIB	2											63				Operational
Site C (3)		56-54N 85-39E	IID	2														63	Operational
KOSTROMA																			
Site A (1)		58-02N 41-21E	IIB	2												62			Operational
Site B (2)		58-02N 41-07E	IIB	2												62			Operational
Site C (3)		57-59N 41-09E	IIB	2													62		Operational
Site D (4)		58-05N 41-40E	IIB	2											63				Operational
Site E (5)		57-57N 41-13E	IIIA		3													63	Operational
Site F (6)		57-55N 41-09E	IID	2													63		Operational
Site G (7)		58-06N 41-34E	IID	2											64				Operational
Site H (8) Probable		58-03N 41-33E	IIIA		3												65		U/C
KOZELSK																			
Site A (3)		53-54N 35-44E	IIC	2													63		Operational
Site B (2)		53-48N 35-47E	IIC	2														63	Operational
Site C (1)		53-46N 35-41E	IIIB		3												65		U/C
Site D (4)		53-52N 35-51E	IIC	2														63	Operational
Site E (5)		53-51N 35-41E	IIIB		3												64		U/C
Site F (6)		53-41N 35-39E	IIIB		3													64	U/C
NOVOSIBIRSK																			
Site A (2)		55-19N 83-10E	IIB	2											63				Operational
Site B (1)		55-19N 83-01E	IIIA		3											63			Operational
Site C (3)		55-23N 82-56E	IIIA		3												64		U/C
Site D (4)		55-21N 83-14E	IID	2														63	Operational
Site E (5)		55-20N 82-56E	IID	2											64				Operational
OLOVYANNAYA																			
Site A (1)		50-54N 115-49E	IIIA		3										64				Operational
Site B (2)		50-55N 115-44E	IIIA		3										65				U/C
Site C (3)		51-01N 115-57E	IIIA		3												65		U/C
OMSK																			
Site A (1)		55-09N 73-38E	IIIB		3										64				Operational
Site B (3) Possible		55-11N 73-33E	Undet																Undetermined

TABLE 2. (Continued)

Location*	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negated		First Coverage		Latest Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
PERM																			
Site A (1)		57-41N 56-13E	IIB	2												62			Operational
Site B (2)		57-42N 55-57E	IIB	2														62	Operational
Site C (3)		57-37N 56-07E	IIB	2													63		Operational
Site D (5)		57-43N 55-49E	IID	2														63	Operational
Site E (6)		57-45N 56-00E	IID	2											64				Operational
Site F (4)		57-41N 56-04E	IIIA		3										65				U/C
PLESETSK																			
Site 1 (1)		62-55N 40-27E	I	2											60				Operational
Site 2 (2)		62-56N 40-32E	I	1											60				Operational
Site 3 (3)		62-57N 40-41E	I	1												60			Operational
Site A (4)		62-58N 40-47E	IIA	2													61		Operational
Site B (5)		63-03N 40-58E	IIB	2												62			Operational
Site C (6)		63-01N 40-52E	IIIA		3										63				Operational
Site D (8)		62-53N 40-50E	IIC	2													63		Operational
Site E (7)		62-50N 40-35E	IIC	2													63		Operational
SHADRINSK																			
Site A (1)		56-09N 63-52E	IIIA		3												63		Operational
Site B (2)		56-10N 64-03E	IIIA		3										64				Operational
Site C (3)		56-07N 63-57E	IIIA		3										65				U/C
SVOBODNYY																			
Site A (3)		51-55N 128-10E	IIB	2													62		Operational
Site B (1)		51-49N 128-19E	IIB	2														62	Operational
Site C (2)		51-53N 128-23E	IIB	2														62	Operational
Site D (4)		52-00N 128-06E	IID	2											64				Operational
Site E (6)		51-43N 128-00E	IID	2														63	Operational
Site F (5)		51-52N 128-13E	IID	2														63	Operational
Site G (7)		51-38N 127-58E	IIIA		3											65			U/C
Site H (8)		52-03N 128-03E	IID	2											64				Operational
TEYKOVO																			
Site A (1)		56-55N 40-27E	IIB	2												62			Operational
Site B (2)		56-56N 40-33E	IIB	2												62			Operational
Site C (3)		56-55N 40-17E	IIB	2											63				Operational
Site D (4)		56-58N 40-40E	IID	2														63	Operational
Site E (5)		56-48N 40-16E	IID	2														63	Operational
Site F (6)		56-54N 40-22E	IID	2												64			U/C
Site G (7)		56-46N 40-02E	IID	2													64		U/C
TYUMEN																			
Site A (3)		56-52N 65-35E	IIC	2														63	Operational
Site C (2)		56-51N 65-28E	IIC	2														63	Operational
VERKHNYAYA SALD																			
Site A (2)		58-09N 60-16E	IIB	2											62				Operational
Site B (1)		58-06N 60-22E	IIA	2														61	Operational
Site C (3)		58-10N 60-28E	IIA	2														61	Operational
Site D (4)		58-12N 60-34E	IIB	2												62			Operational
Site E (5)		58-14N 60-54E	IIB	2														62	Operational
Site F (7)		58-14N 60-41E	IIIA		3											63			Operational
Site G (8)		58-13N 60-49E	IIIA		3												63		Operational
Site H (9)		58-05N 60-13E	IID	2														63	Operational
Site I (10)		58-07N 60-33E	IID	2														63	Operational

TABLE 2 (Continued)

Location*	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negated		First Coverage		Latest Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
YEDROVO																			
Site A (2)		57-48N 33-36E	IIB	2													62		Operational
Site B (1)		57-48N 33-14E	IIB	2														62	Operational
Site C (5)		57-49N 33-08E	IID	2											64				Operational
Site D (4)		57-48N 33-29E	IID	2													63		Operational
Site E (8)		57-52N 33-17E	IIIA		3											63			Operational
Site F (6)		57-43N 33-06E	IID	2													63		Operational
Site G (7)		57-47N 33-02E	IID	2											64				Operational
Site H (9)		57-49N 33-08E	IIIA		3										64				Operational
Site I (3)		57-52N 33-27E																	Undetermined
Undetermined 1/																			
YOSHKAR-OLA																			
Site A (1)		56-35N 48-10E	IIB	2												62			Operational
Site B (2)		56-35N 48-18E	IIB	2													62		Operational
Site C (3)		56-32N 48-25E	IIB	2											63				Operational
Site D (4)		56-32N 48-19E	IID	2													63		Operational
Site E (5)		56-34N 48-14E	IID	2														63	Operational
Site F (6)		56-37N 48-22E	IID	2											64				Operational
YURYA																			
Site A (2)		59-09N 49-33E	IIA	2														61	Operational
Site B (1)		59-08N 49-41E	IIA	2														61	Operational
Site C (3)		59-12N 49-28E	IIB	2											62				Operational
Site D (4)		59-15N 49-24E	IIB	2												62			Operational
Site E (5)		59-22N 49-17E	IIIA		3													62	Operational
Site F (7)		59-21N 49-13E	IIB	2											62				Operational
Site G (6)		59-04N 49-52E	IIIA		3										64				Operational
Site H (8)		59-11N 49-46E	IID	2														63	Operational
Site I (11)		59-20N 49-26E	IID	2											64				Operational
Site J (9)		59-06N 49-45E	IID	2											64				Operational
Site K (10)		59-13N 49-19E	IIIA		3										65				U/C
SUB TOTALS			105	118	90														
TYURATAM																			
Complex A1 (1)		45-55N 63-20E	I	1															Operational
A2		45-55N 63-20E	I	1															Operational
Complex B (2)		45-59N 63-33E	I Prototype	1															Operational
Complex C1 (3)		45-48N 63-39E	II Prototype	1															Operational
C2		45-48N 63-39E	II	1															Operational
C3		45-48N 63-39E	II	1															Operational
Complex D1 (4)		45-59N 63-57E	IIIA Prototype		3														Operational
D2 (9)		45-59N 63-57E	III		3														U/C
Complex E1 (6)		45-58N 63-12E	IIC Prototype	1															Operational
E2		45-48N 63-12E	IIC	1															Operational
E3		45-48N 63-12E	IIC	1															Operational
Complex F (5)		46-02N 63-06E	IIIB Prototype		3														Operational
Complex G1 (7)		46-03N 62-56E	Undet	2															Operational
G2 (11)		46-03N 62-56E	Undet	2															U/C
Complex H (8)		45-59N 63-42E	Undet	2															Operational
TOTALS			116	163	99														

*TDI site designators are indicated in parentheses.
1/ See Introduction, page 3.

TABLE 3. SUMMARY EVALUATION OF SOVIET MRBM/IRBM DEPLOYMENT

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR STATUS
AKHTYRKA Launch Complex						
Launch Site No 1 (AKHTYRKA 1)		50-15-45N 34-50-15E	II	4		Complete
Launch Site No 2 (AKHTYRKA 2)		50-22-00N 34-57-15E	II	4		Complete
AKTYUBINSK Launch Complex						
Launch Site No 1 (KARAKHOBDA 1)		49-57-45N 56-51-15E	IV (IR)	3		Early
Launch Site No 2 (PETROVSKIY 1)		50-00-30N 56-58-15E	IV (IR)	3		Mid
ALUKSNE Launch Complex						
Launch Site No 1 (LEJASCIEMS)		57-21-15N 26-44-45E	II	4		Complete
Launch Site No 2 (RUSKI)		57-25-15N 26-50-00E	II	4		Complete
Launch Site No 3 (LEJASCIEMS 2)		57-13-00N 26-33-30E	IV(MR)	3		Complete
ANASTASYEVKA Launch Complex						
Launch Site No 1 (ANASTASYEVKA 1)		48-35-00N 135-38-45E	II	4		Complete
Launch Site No 2 (ANASTASYEVKA 2)		48-36-45N 135-41-30E	II	4		Complete
BALTA Launch Complex						
Launch Site No 1 (BALTA 1)		48-01-45N 29-33-30E	II	4		Complete
Launch Site No 2 (BALTA 2)		48-07-45N 29-34-30E	II	4		Complete
BARANO-ORENBURGSKOYE Complex						
Launch Site No 1 (SOFIYE ALEKSEYEVSKOYE)		44-15-30N 131-23-00E	I	4		Complete
Launch Site No 2 (BARANO-ORENBURGSKOYE)		44-19-45N 131-30-15E	I	4		Complete
BAYRAM-ALI Launch Complex						
Launch Site No 1 (BAYRAM-ALI)		37-46-00N 62-12-00E	III	4		Complete
BELOKOROVICHI Launch Complex						
Launch Site No 1 (OLEVSK 1)		51-08-45N 28-03-30E	I	4		Complete
Launch Site No 2 (OLEVSK 2)		51-10-30N 28-00-15E	I	4		Complete
Launch Site No 3 (RUDNYA ZLOTINSKAYA)		51-04-30N 28-07-00E	IV (MR)	3		Complete
BELOMORSK Launch Complex						
Launch Site No 1 (RAMOYE)		64-26-15N 34-18-15E	III	4		Complete
BORSHCHEV Launch Complex						
Launch Site No 1 (SKALA PODOLSKAYA 1)		48-51-00N 26-08-30E	I	4		Complete
Launch Site No 2 (SKALA PODOLSKAYA 2)		48-53-15N 26-03-30E	I	4		Complete
BREST Launch Complex						
Launch Site No 1 (BREST 1)		51-49-00N 24-01-00E	II	4		Complete
Launch Site No 2 (BREST 2)		51-51-45N 24-01-45E	II	4		Complete
BRODY Launch Complex						
Launch Site No 1 (BRODY 2)		50-13-15N 25-05-00E	I	4		Complete
Launch Site No 2 (BERESTECHKO)		50-20-15N 25-05-30E	I	4		Complete
Launch Site No 3 (BRODY 1)		50-06-00N 25-12-00E	IV(MR)	3		Complete
BYKHOV Launch Complex						
Launch Site No 1 (SLEDYUKI)		53-41-30N 30-20-30E	II	4		Complete
DERAZHNYA Launch Complex						
Launch Site No 1 (DERAZHNYA 1)		49-21-00N 27-26-30E	II	4		Complete
Launch Site No 2 (DERAZHNYA 2)		49-26-30N 27-29-00E	II	4		Complete
Launch Site No 3 (KHMELNITSKIY)		49-24-45N 27-08-45E	IV (MR)	3		Complete

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TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES		TYPE	NO OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
DISNA Launch Complex							
Launch Site No 1 (DISNA)		55-35-15N	28-15-45E	I	4		Complete
Launch Site No 2 (ZELKI)		55-36-00N	28-24-30E	I	4		Complete
Launch Site No 3 (BORKOVICHI)		55-42-00N	28-27-15E	II	4		Complete
DOLINA Launch Complex							
Launch Site No 1 (DOLINA 1)		49-04-00N	24-03-30E	I	4		Complete
Launch Site No 2 (DOLINA 2)		49-06-15N	24-08-30E	I	4		Complete
Launch Site No 3 (BOLEKHOV)		49-06-45N	23-51-15E	IV (MR)	3		Complete
DROGOBYCH Launch Complex							
Launch Site No 1 (MEDENITSA)		49-22-00N	23-45-30E	I	4		Complete
Launch Site No 2 (DROGOBYCH)		49-24-45N	23-34-45E	I	4		Complete
Launch Site No 3 (STRYY)		49-16-30N	23-43-00E	IV (MR)	3		Complete
DYATLOVO Launch Complex							
Launch Site No 1 (DYATLOVO)		53-33-00N	25-16-30E	I	4		Complete
Launch Site No 2 (BEREZOVKA)		53-35-30N	25-17-45E	I	4		Complete
Launch Site No 3 (ZBLYANY)		53-36-15N	25-26-30E	II	4		Complete
GELLI Launch Complex							
Launch Site No 1 (KAKASHURA)		42-39-15N	47-27-00E	IV (IR)	3		Complete
Launch Site No 2 (GELLI)		42-45-45N	47-28-15E	IV (IR)	3		Complete
Launch Site No 3 (PARAUL)		42-47-45N	47-23-00E	IV (IR)	3		Complete
GOMEL Launch Complex							
Launch Site No 1 (BORKHOV 1)		52-18-45N	30-43-00E	II	4		Complete
Launch Site No 2 (BORKHOV 2)		52-24-45N	30-38-30E	II	4		Complete
GRANOV Launch Complex							
Launch Site No 1 (GRANOV 1)		48-56-15N	29-30-30E	III	4		Complete
Launch Site No 2 (GRANOV 2)		48-49-30N	29-29-15E	IV (IR)	3		Late
Launch Site No 3 (KALNIK)		48-59-30N	29 22 15E	IV (IR)	3		Mid
GRESK Launch Complex							
Launch Site No 1 (GRESK 1)		53-14-50N	27-42-15E	I	4		Complete
Launch Site No 2 (GRESK 2)		53-17-00N	27-41-15E	I	4		Complete
Launch Site No 3 (URECHYE)		53-11-30N	27-58-30E	II	4		Complete
GROZNYY Launch Complex							
Launch Site No 1 (SUNZHENSKOYE)		43-08-00N	44-55-00E	I	4		Complete
Launch Site No 2 (NESTEROVSKAYA)		43-12-00N	44-57-00E	I	4		Complete
Launch Site No 3 (ACHKHOY-MARTAN)		43-10-00N	45-11-00E	IV (MR)	3		Complete
GUSEV Launch Complex							
Launch Site No 1 (GUSEV 1)		54-41-30N	22-05-15E	I	4		Complete
Launch Site No 2 (GUSEV 2)		54-44-15N	22-04-15E	I	4		Complete
GVARDEYSK Launch Complex							
Launch Site No 1 (GVARDEYSK 2)		54-40-30N	21-08-00E	I	4		Complete
Launch Site No 2 (GVARDEYSK 1)		54-45-15N	21-09-15E	I	4		Complete

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TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
JELGAVA Launch Complex						
Launch Site No 1 (IECAVA 1)		56-35-30N 24-03-45E	II	4		Complete
Launch Site No 2 (IECAVA 2)		56-39-45N 24-08-00E	II	4		Complete
Launch Site No 3 (IECAVA 3)		56-33-15N 24-20-30E	IV (MR)	3		Complete
JONAVA Launch Complex						
Launch Site No 1 (KARMELAVA)		54-57-15N 24-06-00E	II	4		Complete
Launch Site No 2 (JONAVA)		55-01-00N 24-14-15E	II	4		Complete
KAMENETS-PODOLSKIY Launch Complex						
Launch Site No 1 (KAMENETS-PODOLSKIY)		48-51-15N 26-42-30E	II	4		Complete
Launch Site No 2 (DUNAYEVTSY)		48-55-15N 26-59-15E	II	4		Complete
KIVERTSY Launch Complex						
Launch Site No 1 (KIVERTSY 1)		50-52-45N 25-30-45E	I	4		Complete
Launch Site No 2 (KIVERTSY 2)		50-57-00N 25-36-15E	I	4		Complete
Launch Site No 3 (TROSTYANETS)		50-58-30N 25-39-15E	II	4		Complete
KONKOVICHI Launch Complex						
Launch Site No 1 (PETRIKOV)		52-10-30N 28-24-30E	I	4		Complete
Launch Site No 2 (KONKOVICHI)		52-15-30N 28-37-45E	I	4		Complete
KOROSTEN Launch Complex						
Launch Site No 1 (KOROSTEN 1)		50-51-45N 28-18-45E	II	4		Complete
Launch Site No 2 (KOROSTEN 2)		50-52-30N 28-30-30E	II	4		Complete
KOZHANOVICHI Launch Complex						
Launch Site No 1 (KOZHANOVICHI 1)		52-10-30N 27-51-30E	I	4		Complete
Launch Site No 2 (KOZHANOVICHI 2)		52-11-45N 27-48-30E	I	4		Complete
KRASKINO Launch Complex						
Launch Site No 1 (KRASKINO)		42-44-00N 130-40-45E	II	4		Complete
KRASNOZNAMENSK Launch Complex						
Launch Site No 1 (VIESVILLE)		55-01-30N 22-23-00E	I	4		Complete
Launch Site No 2 (RAGNIT)		55-01-30N 22-11-30E	I	4		Complete
KREMOVO Launch Complex						
Launch Site No 1 (PROBABLE) (KREMOVO)		44-01-24N 132-20-39E	I	4		Complete
Launch Site No 2 (PROBABLE) (LYALICHI)		44-02-30N 132-26-26E	I	4		Complete
KROLEVETS Launch Complex						
Launch Site No 1 (KROLEVETS 1)		51-36-45N 33-28-45E	III	4		Complete
Launch Site No 2 (KROLEVETS 2)		51-40-45N 33-29-30E	III	4		Complete
Launch Site No 3 (BEREZA)		51-43-45N 33-43-45E	III	4		Complete
KURGANCHA Launch Complex						
Launch Site No 1 (KURGANCHA 1)		39-37-15N 65-54-00E	I	4		Complete
Launch Site No 2 (KURGANCHA 2)		39-37-30N 65-57-15E	I	4		Complete
Launch Site No 3 (TYM)		39-35-15N 65-42-15E	IV (MR)	3		Complete

TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
LEBEDIN Launch Complex						
Launch Site No 1 (LEBEDIN 1)		50-33-00N 34-26-00E	III	4		Complete
Launch Site No 2 (LEBEDIN 2)		50-35-45N 34-24-45E	III	4		Complete
Launch Site No 3 (LEBEDIN 3)		50-38-00N 34-27-30E	III	4		Complete
LIDA Launch Complex						
Launch Site No 1 (LIDA 1)		53-47-00N 25-21-30E	I	4		Complete
Launch Site No 2 (LIDA 2)		53-57-00N 25-28-00E	I	4		Complete
LUTSK Launch Complex						
Launch Site No 1 (LUTSK 1)		50-46-45N 25-04-15E	I	4		Complete
Launch Site No 2 (LUTSK 2)		50-50-15N 25-03-00E	I	4		Complete
Launch Site No 3 (VLADIMIR-VOLYNSKIY)		50-48-30N 24-42-30E	IV (MR)	3		Complete
MARINA GORKA Launch Complex						
Launch Site No 1 (MARINA GORKA)		53-26-30N 27-45-45E	II	4		Complete
MAYKOP Launch Complex						
Launch Site No 1 (KURDZHIPSKAYA)		44-31-45N 40-00-45E	II	4		Complete
Launch Site No 3 (SHIRVANSKAYA)		44-25-30N 39-54-00E	IV (MR)	3		Complete
MOLOSKOVITSY Launch Complex						
Launch Site No 1 (MOLOSKOVITSY 1)		59-28-45N 29-06-00E	II	4		Complete
Launch Site No 2 (MOLOSKOVITSY 2)		59-29-30N 29-12-30E	II	4		Complete
Launch Site No 3 (GURLEVO)		59-25-30N 28-52-30E	IV (MR)	3		Complete
MUKACHEVO Launch Complex						
Launch Site No 1 (MUKACHEVO 1)		48-19-00N 22-31-00E	I	4		Complete
Launch Site No 2 (MUKACHEVO 2)		48-19-30N 22-37-45E	I	4		Complete
NADVORNAYA Launch Complex						
Launch Site No 1 (PARYSHCHE)		48-38-00N 24-42-00E	I	4		Complete
Launch Site No 2 (NOVA VES)		48-39-30N 24-48-15E	I	4		Complete
Launch Site No 3 (OTYNYA)		48-47-45N 24-50-15E	IV (MR)	3		Complete
NIGRANDE Launch Complex						
Launch Site No 1 (NIGRANDE)		56-31-00N 22-02-15E	III	4		Complete
Launch Site No 2 (SKRUNDA)		56-35-45N 21-49-15E	IV (IR)	3		Complete
Launch Site No 3 (VAINODE)		56-28-30N 21-50-15E	IV (IR)	3		Mid
NOVOSYSOYEVKA Launch Complex						
Launch Site No 1 (NOVOSYSOYEVKA 1)		44-11-30N 133-26-00E	III	4		Complete
Launch Site No 2 (NOVOSYSOYEVKA 2)		44-07-45N 133-27-30E	IV (IR)	3		Mid
Launch Site No 3 (NOVOSYSOYEVKA 3)		44-07-45N 133-25-45E	IV (IR)	3		Early
OSTROG Launch Complex						
Launch Site No 1 (OSTROG 1)		50-14-30N 26-44-00E	I	4		Complete
Launch Site No 2 (OSTROG 2)		50-17-15N 26-41-30E	I	4		Complete
OSTROV Launch Complex						
Launch Site No 1 (ASANOVSHCHINA)		57-32-45N 28-12-00E	I	4		Complete
Launch Site No 2 (SHEVELEVO)		57-37-30N 28-12-45E	I	4		Complete
Launch Site No 3 (REDKINO)		57-24-30N 28-26-45E	IV (MR)	3		Mid

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TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
PAPLAKA Launch Complex						
Launch Site No 1 (PAPLAKA 1)		56-24-00N 21-15-30E	I	4		Complete
Launch Site No 2 (PAPLAKA 2)		56-25-30N 21-15-30E	I	4		Complete
PERVOMAYSK Launch Complex						
Launch Site No 1 (KAMENNYY MOST)		47-58-30N 30-53-00E	IV (IR)	3		Complete
Launch Site No 2 (SEMENOVKA 1)		47-58-45N 30-59-30E	IV (IR)	3		Complete
Launch Site No 3 (SEMENOVKA 2)		47-53-45N 30-57-30E	IV (IR)	3		Complete
PINSK Launch Complex						
Launch Site No 1 (IVANOVO)		52-10-45N 25-41-00E	I	4		Complete
Launch Site No 2 (MOTOL)		52-12-45N 25-44-45E	I	4		Complete
POLOTSK Launch Complex						
Launch Site No 1 (POLOTSK 1)		55-22-45N 28-44-00E	II	4		Complete
Launch Site No 2 (POLOTSK 2)		55-24-15N 28-33-30E	II	4		Complete
POSTAVY Launch Complex						
Launch Site No 1 (POSTAVY 1)		55-09-45N 26-54-15E	II	4		Complete
Launch Site No 2 (KOZYANY)		55-20-30N 26-51-30E	II	4		Complete
Launch Site No 3 (POSTAVY 2)		55-06-15N 27-00-15E	IV (MR)	3		Mid
PRUZHANY Launch Complex						
Launch Site No 1 (PRUZHANY 1)		52-30-30N 24-08-15E	II	4		Complete
Launch Site No 2 (PRUZHANY 2)		52-33-00N 24-07-00E	II	4		Complete
RAKVERE Launch Complex						
Launch Site No 1 (SIMUNA)		59-08-30N 26-26-30E	II	4		Complete
Launch Site No 2 (VAIKE MAARJA)		59-11-30N 26-20-45E	II	4		Complete
RISTI Launch Complex						
Launch Site No 1 (RISTI 1)		59-04-00N 24-03-15E	I	4		Complete
Launch Site No 2 (RISTI 2)		59-06-30N 24-06-30E	I	4		Complete
ROZHDESTVENKA Launch Complex						
Launch Site No 1 (ROZHDESTVENKA)		45-47-15N 133-43-15E	II	4		Complete
RUZHANY Launch Complex						
Launch Site No 1 (KRUPA 1)		52-48-15N 24-42-00E	II	4		Complete
Launch Site No 2 (KRUPA 2)		52-49-30N 24-45-30E	II	4		Complete
SARY OZEK Launch Complex						
Launch Site No 1 (KARA BABAU 1)		44-32-00N 77-46-45E	III	4		Complete
Launch Site No 2 (KARA BABAU 2)		44-31-00N 77-58-45E	IV (IR)	3		Complete
Launch Site No 3 (KARA BABAU 3)		44-31-00N 77-43-00E	IV (IR)	3		Late
SATEIKIAI Launch Complex						
Launch Site No 1 (SALANTAI 1)		55-59-45N 21-38-00E	I	4		Complete
Launch Site No 2 (SALANTAI 2)		56-02-15N 21-41-30E	I	4		Complete
Launch Site No 3 (ZEMAICIU KALVARIJA)		56-01-30N 21-53-30E	IV (MR)	3		Complete
SIMFEROPOL Launch Complex						
Launch Site No 1 (MAZANKA)		44-54-15N 34-20-00E	I	4		Complete
Launch Site No 2 (BALKI)		44-57-15N 34-25-45E	I	4		Complete
SLONIM Launch Complex						
Launch Site No 1 (BYTEN 1)		52-52-30N 25-21-00E	I	4		Complete
Launch Site No 2 (BYTEN 2)		52-55-30N 25-21-30E	I	4		Complete

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TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
SMORGON Launch Complex						
Launch Site No 1 (SMORGON 1)		54-31-45N 26-17-30E	III	4		Complete
Launch Site No 2 (SMORGON 3)		54-36-15N 26-23-15E	III	4		Complete
Launch Site No 3 (SMORGON 2)		54-26-15N 26-18-15E	IV (IR)	3		Late
SOKAL Launch Complex						
Launch Site No 1 (SOKAL 1)		50-23-00N 24-18-30E	I	4		Complete
Launch Site No 2 (SOKAL 2)		50-27-30N 24-20-45E	I	4		Complete
Launch Site No 3 (SOKAL 3)		50-20-15N 24-26-00E	IV (MR)	3		Complete
SOVETSK Launch Complex						
Launch Site No 1 (SLAVSK 1)		54-59-15N 21-37-15E	I	4		Complete
Launch Site No 2 (SLAVSK 2)		55-00-00N 21-29-00E	I	4		Complete
SUCHAN Launch Complex						
Launch Site No 1 (NOVITSKOYE)		43-01-45N 133-17-15E	I	4		Complete
Launch Site No 2 (SEVERNYY SUCHAN)		43-10-00N 133-20-00E	I	4		Complete
TAURAGE Launch Complex						
Launch Site No 1 (TAURAGE 3)		55-05-15N 22-19-30E	I	4		Complete
Launch Site No 2 (TAURAGE 1)		55-10-15N 22-20-45E	I	4		Complete
TAYBOLA Launch Complex						
Launch Site No 1 (TAYBOLA 1)		68-28-15N 33-15-15E	IV (IR)	3		Complete
Launch Site No 2 (TAYBOLA 2)		68-30-00N 33-23-00E	IV (IR)	3		Complete
Launch Site No 3 (TAYBOLA 3)		68-25-45N 33-29-30E	IV (IR)	3		Complete
TORVA Launch Complex						
Launch Site No 1 (TORVA 1)		57-56-30N 26-04-30E	I	4		Complete
Launch Site No 2 (TORVA 2)		57-59-15N 26-05-15E	I	4		Complete
Launch Site No 3 (TSIRGULIINA)		57-49-45N 26-12-15E	IV (MR)	3		Complete
UGOLNYY Launch Complex						
Launch Site No 1 (UGOLNYY)		64-46-15N 177-58-00E	II	4		Complete
UKMERGE Launch Complex						
Launch Site No 1 (VEPRIAI)		55-08-00N 24-38-45E	I	4		Complete
Launch Site No 2 (UKMERGE)		55-11-15N 24-42-30E	I	4		Complete
UMAN Launch Complex						
Launch Site No 1 (MOLODETSKOYE)		48-53-45N 30-27-45E	I	4		Complete
Launch Site No 2 (MANKOVKA)		48-57-45N 30-24-00E	I	4		Complete
Launch Site No 3 (KISHENTSY)		49-00-15N 30-13-45E	IV (MR)	3		Complete
USOVO Launch Complex						
Launch Site No 1 (OVRUCH 1)		51-17-45N 28-16-00E	I	4		Complete
Launch Site No 2 (OVRUCH 2)		51-18-45N 28-10-30E	I	4		Complete
Launch Site No 3 (LIPNIKI)		51-12-00N 28-26-30E	II	4		Complete
UZHGOROD Launch Complex						
Launch Site No 1 (UZHGOROD)		48-33-30N 22-13-30E	II	4		Complete
VORU Launch Complex						
Launch Site No 1 (VORU 1)		57-46-00N 26-47-15E	II	4		Complete
Launch Site No 2 (VORU 2)		57-49-15N 26-50-30E	II	4		Complete

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TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES		TYPE	NO OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
VSELYUB Launch Complex							
Launch Site No 1 (VSELYUB 1)		53-46-15N	25-43-00E	I	4		Complete
Launch Site No 2 (VSELYUB 2)		53-48-00N	25-46-45E	I	4		Complete
YELSK Launch Complex							
Launch Site No 1 (YELSK 1)		51-42-00N	29-12-30E	I	4		Complete
Launch Site No 2 (YELSK 2)		51-47-00N	29-18-00E	I	4		Complete
ZAGARE Launch Complex							
Launch Site No 1 (ZAGARE 1)		56-23-15N	23-19-30E	I	4		Complete
Launch Site No 2 (ZAGARE 2)		56-29-00N	23-21-30E	I	4		Complete
Launch Site No 3 (LIELELEJA)		56-24-00N	23-36-45E	IV (MR)	3		Complete
ZHITOMIR Launch Complex							
Launch Site No 1 (ZHITOMIR 1)		50-04-45N	28-16-15E	II	4		Complete
Launch Site No 2 (ZHITOMIR 2)		50-10-15N	28-16-00E	II	4		Complete
Launch Site No 3 (BERDICHEV)		50-05-45N	28-22-45E	II	4		Complete
ZHMERINKA Launch Complex							
Launch Site No 1 (GNIVAN)		49-09-15N	28-12-15E	II	4		Complete
Launch Site No 2 (ZHMERINKA)		49-10-30N	28-04-45E	II	4		Complete
Launch Site No 3 (VINNITSA)		49-17-30N	28-20-15E	IV (MR)	3		Complete
ZHURAVKA Launch Complex							
Launch Site 1 (ZHURAVKA)		54-36-30N	76-40-45E	III	4		Complete
ZNAMENSK Launch Complex							
Launch Site No 1 (ZNAMENSK 1)		54-33-00N	21-11-15E	I	4		Complete
Launch Site No 2 (ZNAMENSK 2)		54-35-30N	21-08-45E	I	4		Complete

*TDI site designators are indicated in parentheses.

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