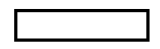
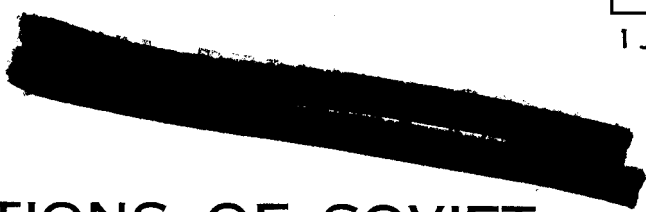


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1 June 1963

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EVALUATIONS OF SOVIET SURFACE-TO-SURFACE MISSILE DEPLOYMENT

7TH REVISION

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

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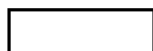
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The Guided Missiles and Astronautics Intelligence Committee (GMAIC) wishes to express its appreciation to the National Photographic Interpretation Center for its assistance in the editing, illustration, and publication of this report.

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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 of the DWG. Additional data may be added to future revisions.

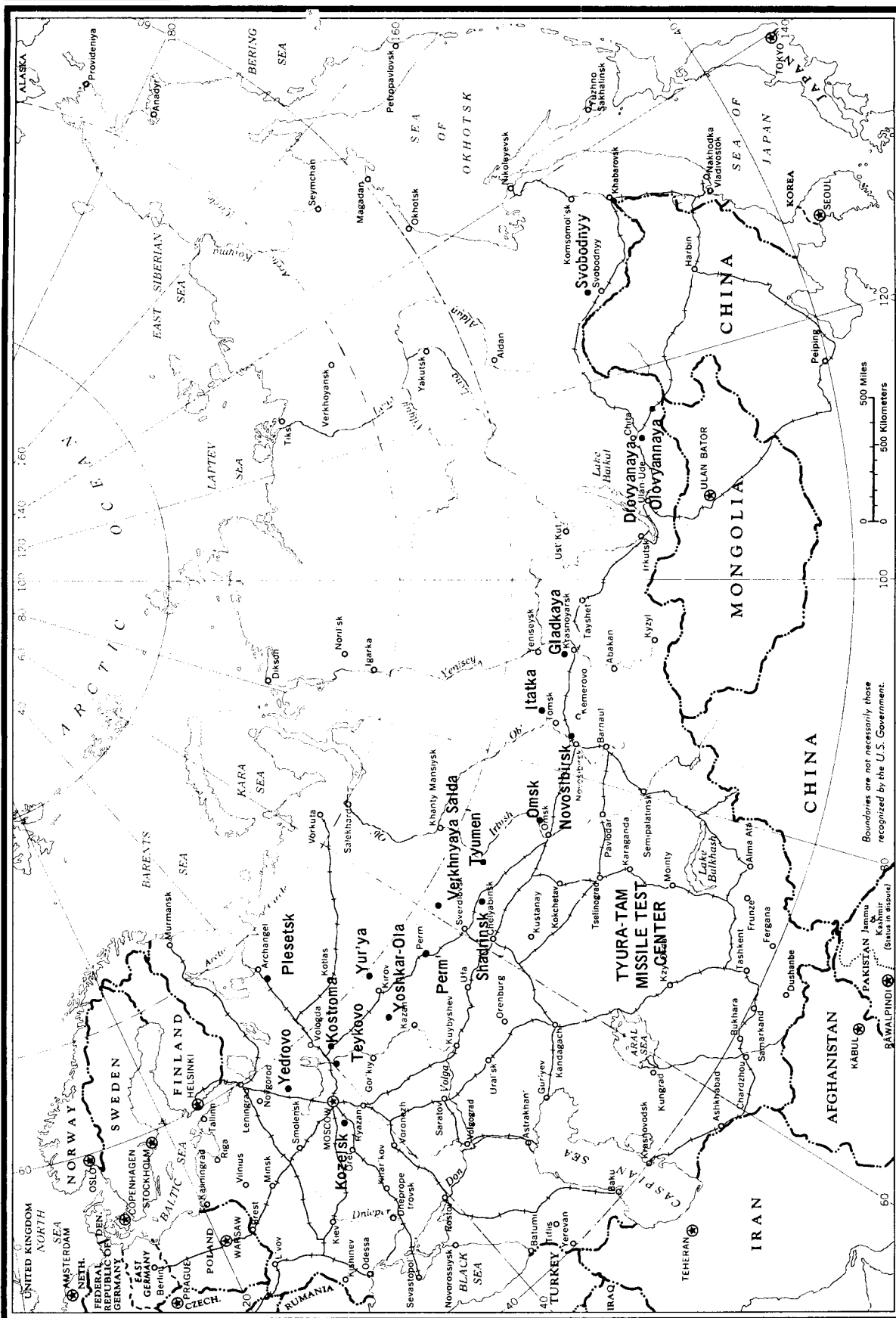
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FIGURE 1. DEPLOYMENT OF SOVIET ICBM COMPLEXES.

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INTRODUCTION

25X1 This report is the seventh 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 sixth revision, dated 1 April 1963 and disseminated under control number [] should be destroyed in accordance with existing instructions for handling [] material.

25X1 [] has provided additional information on the construction timing and pace of the Soviet missile deployment program which is reflected in the estimates and operational status shown in Tables 2 and 3. A new ICBM complex with one hardened launch site has been identified near Olovyannaya in the Soviet Far East, bringing the total number of deployed complexes to 18. A total of 76 ICBM sites (150 launchers) has been identified to date at these 18 deployed complexes. Of this total, about 108 are considered to be operational. See Figure 1 for locations of deployed ICBM complexes. Four basic ICBM launch site configurations (see Figure 2) have been identified and are characterized as follows:

Type I - A soft site with a rail-served pad similar to Launch Complex A or B at Tyura Tam. To date, this type has been observed only at Plesetsk.

Type II - A soft site with two road-served pads similar to the original Launch Complex C at Tyura Tam. This type was first observed at Yurya and subsequently at 11 other locations. There are two basic modes of this type.*

*The USAF, DIA, and NSA members of GMAIC believe that there are three configurations of this type, and all have similar, common identifying characteristics. They assert that the Type IV site listed above is the third mode of the Type II soft, road-served site.

Type III - A hardened site observed at Launch Complex D, Tyura Tam, and at ten confirmed ICBM complexes. It is more likely that this type of site contains three launch silos than the two previously reported. Neither the degree of hardening nor the depth of the silos can be determined from available photography (Figure 3).**

Type IV - A soft site consisting of two road-served launch pads. This type was first observed at Tyumen and subsequently at three other confirmed ICBM complexes. It differs from Type II sites as follows: (1) the pad separation is between 800 and 870 feet instead of 980 feet; (2) the drive-through ready building is smaller (130 by 115 feet) and is located within the loop road pattern; (3) there is a prominent "plus" configuration located at the rear or side of the launch site at most of the sites under construction; its purpose has not been determined; small buildings are located on three legs of the "plus" at some of the sites; and (4) the four buildings located along the center road between pads at Type II sites are not apparent at these sites.

Good-quality photography reveals that deployed Type III ICBM sites and Complex D at Tyura Tam contain three silos. From photography it is judged that two silos are in fact launch silos but the function of the third silo cannot be positively determined. [] evidence reveals that a launching exercise at Tyura Tam on [] involved an attempt to launch three missiles within a period of 9 minutes and 56 seconds. The first and third missiles were successfully launched while the second launching was either canceled or the missile failed early in flight.

**See Navy footnote, P. 3.

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An identical practice countdown on [] confirms a Soviet intent to launch three missiles in 9 minutes and 56 seconds. While the missiles could have been launched from more than one Tyura Tam launch area, we believe that the exercise was probably designed to test an operational mode rather than the mere ability to launch three missiles within 10-minute period, and that an attempt was made to launch all three missiles from the same site. We believe that it is more likely that this exercise was conducted from the prototype Type III site at Area D1 than from the soft pads at Complex C, or the uncompleted hardened facility at launch Complex F.

Eight new launch sites (16 launchers) were identified in [] They are located at the following complexes:

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DROVYANAYA

Launch Site C	Type II (Mod ?)
Launch Site D	Type II (Mod ?)

OLOVYANNAYA

Launch Site A	Type III
---------------	----------

YEDROVO 1/

Launch Site E	Type III
Launch Site F	Type II (Mod ?)
Launch Site G	Type II (Mod ?)

VERKHNYAYA SALDA

Launch Site H	Type II (Mod ?)
Launch Site I	Type II (Mod ?)

1/ (NOTE: Launch Site C, Yedrovo, has been re-assembled at a Type III site as a result of [])

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[] is the location of an ICBM complex which includes 4 completed launch sites; two are hardened Type III sites, and two are soft Type II sites. This is the first known flight between Tyura Tam and the Yedrovo area and suggests the involvement of personnel stationed at the Yedrovo ICBM complex with the unusual launching exercise.

Therefore, considering all evidence, we conclude that a Type III launch site more likely contains 3 launch silos than the two previously reported.*

Of the eight new sites identified, six are Type II sites of an undetermined mode. A preliminary analysis indicates that their configuration resembles a combination of C2 and C3 at Tyura Tam. Until a detailed photographic analysis is completed, the six launch sites will be listed as Type II sites of an undetermined mode.

A preliminary analysis indicates that Omsk Launch Site A, a hardened site, is different from hardened Type III sites and may be related to Launch Area F at Tyura Tam. Pending receipt of further evidence we will continue to carry Omsk Launch Site A as a Type III site.

Launch Site B at Omsk has been re-evaluated as a result of [] and is now judged to be only a possible site. The two launch pads previously carried at Omsk Launch Site B have been deleted from the tabulation (Table 2).

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*The Navy member does not concur in the level of confidence expressed in the conclusion that the firings on [] were from Area D1 and were designed to test an operational mode. The Navy member believes it equally possible that these firings involved more than one launch area at Tyura Tam. The final analysis of evidence on the [] firings may further support this view. The photographic evidence reveals a number of features which are inconsistent with a conclusion that these sites contain three launch silos. Analysis to date indicates the third silo at these sites is different from the other two and may have a function other than launch. Therefore, the Navy member reserves to the wording of the above three paragraphs and concludes that it is just as likely the Type III ICBM sites contain only two launch silos.

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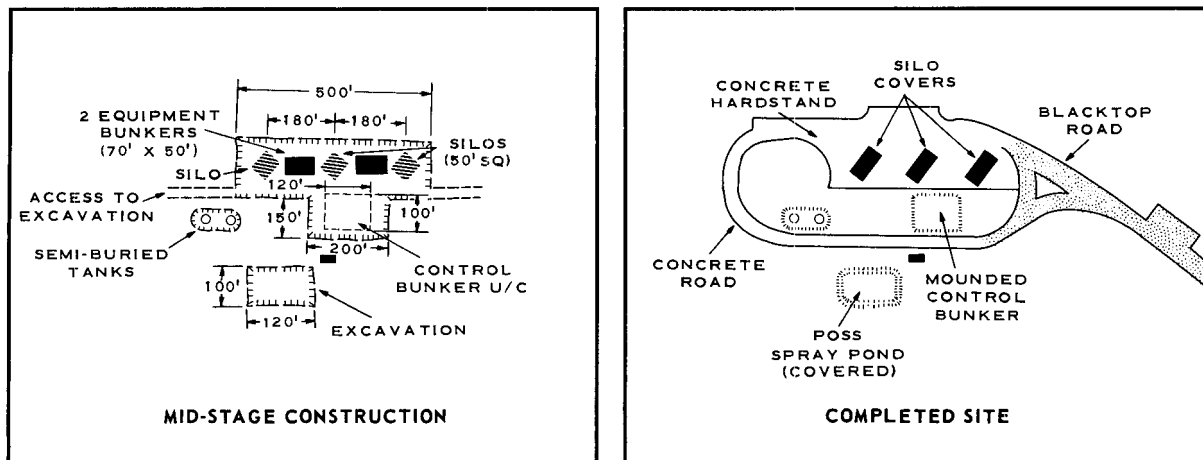


FIGURE 3. TYPICAL TYPE III ICBM CONFIGURATIONS

A total of 130 soft MRBM sites (520 launch pads) and 12 soft IRBM sites (48 launch pads) have been identified to date. These totals include one new confirmed site at Belomorsk, one new probable site at Gvardeysk, and two new possible sites at Lakhdenpokhaya and Kishentsy near Uman. Thirty-three hardened MRBM/IRBM sites (66 launchers) have been identified to date, including three newly identified hardened launch sites at Buynaksk and one probable hard site at Nigrande. Locations of deployed MRBM/IRBM complexes are depicted in Figure 3. The four basic MRBM/IRBM site configurations are presented in Figure 4. Three soft MRBM sites (Kraskino, Rozhdestvenka, and Ugolnyy) have characteristics of both the soft elongated-pad MRBM and IRBM sites. These sites have been designated as MRBM sites since most of the characteristics favor the MRBM.

In this report, one site name has been changed by the DWG to incorporate the name carried in the Target Data Inventory (TDI).

This change is as follows:

Launch Site No 3 at Kivertsy is changed to Trostyanets.

Due to analyses by several agencies, Type IV MRBM/IRBM sites have been variously reported to have two, three, or four launch silos. A detailed study undertaken to resolve this question has resulted in our conclusion that all Type IV launch sites probably have two launch silos. The third silo could possibly be a launch silo but is more likely a personnel and equipment access silo. A fourth object appearing at some launch sites, and reported as a silo by some agencies, has been determined to be an aboveground structure, the purpose of which has not been determined.

It should be noted that all suspect locations are subject to continuous review. When sufficient evidence warrants an assessment of possible or higher, a suspect location will be included in revisions to Soviet Surface-to-Surface Missile Deployment (

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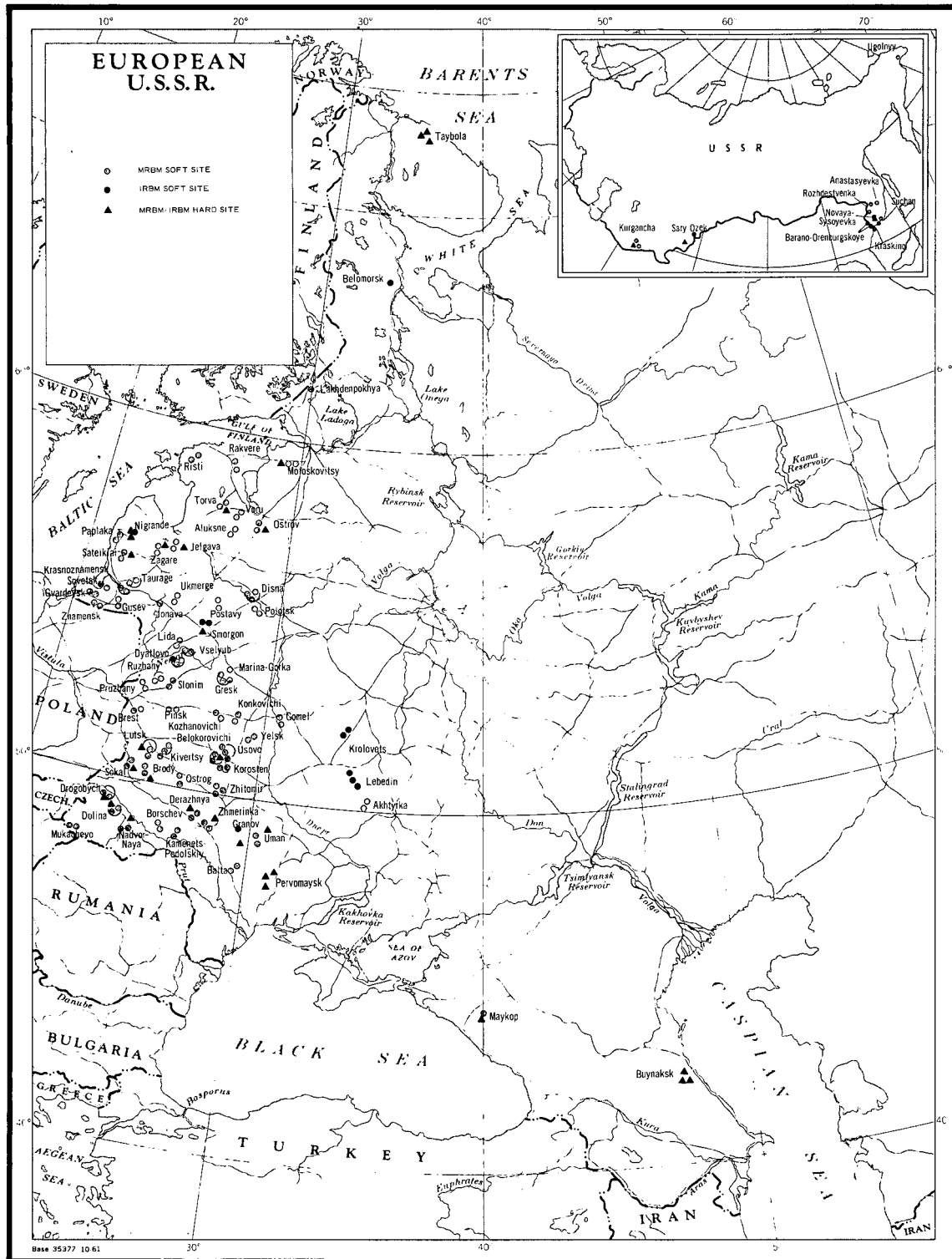


FIGURE 4. DEPLOYMENT OF SOVIET MRBM/IRBM COMPLEXES.

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When a location has been evaluated as negative by the DWG, all evidence including photography will continue to be reviewed for deception, new construction, and unrecognized configurations. The evaluations assigned are based on the latest data and are subject to change as new evidence is made available. Accordingly, this report

will be revised bimonthly to reflect additions or changes in evaluations.

Although some of the locations listed in Table 4 may have some functional relationship to the Soviet missile program, the assessments are limited to launching facilities. Only major differences in assessments are listed in footnotes.

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

Type	Number	Operational	Under Construction	Type	Number	Operational	Under Construction
ICBM				MRBM/IRBM			
I	4	4	0	I	312	312	0
II	94	70	24	II	208	196	12
III	30	12	18	III	48	40	8
IV	22	22	0	IV	66	48	16
Total	150	108	42	Total	634	596	38

1/ See Tables 2 and 3 for details. Figures do not include a third launch silo at Type III ICBM sites.

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TABLE 2. SUMMARY EVALUATION OF SOVIET ICBM DEPLOYMENT

Location *	BE Number	Coordinate	Type of Site	Number of Launchers		Estimated Quarter Site Operational **				Estimated Status
				Soft	Hard	1st	2nd	3rd	4th	
DROVYANAYA										
Site A (1)		51-24N 113-00E	II B	2		63				Operational
Site B (2)		51-23N 113-07E	III		2	64				U/C
Site C (3)		51-20N 113-01E	II (Mod?)	2				63		U/C
Site D (4)		51-28N 113-04E	II (Mod?)	2		64				U/C
GLADKAYA										
Site A (1)		56-20N 92-19E	IV	2			63			Operational
Site B (2)		56-25N 92-25E	IV	2			63			Operational
ITATKA										
Site A (1)		56-58N 85-33E	II B	2				62		Operational
Site B (2)		57-01N 85-39E	II B	2		63				Operational
KOSTROMA										
Site A (1)		58-02N 41-21E	II B	2						
Site B (2)		58-02N 41-07E	II B	2			62			Operational
Site C (3)		57-59N 41-09E	II B	2			62			Operational
Site D (4)		58-05N 41-40E	II B	2				62		Operational
Site E (5)		57-57N 41-13E	III		2	63				Operational
Site F (6)		57-55N 41-09E	II B	2				63		U/C
KOZELSK										
Site A (3)		53-54N 35-44E	IV	2		63				Operational
Site B (2)		53-48N 35-47E	IV	2		63				Operational
Site C (1)		53-46N 35-41E	IV	2			63			Operational
Site D (4)		53-52N 35-51E	IV	2			63			Operational
NOVOSIBIRSK										
Site A (2)		55-19N 83-10E	II B	2		63				Operational
Site B (1)		55-19N 83-01E	III		2		63			Operational
Site C (3)		55-23N 82-56E	III		2	64				U/C
Site D (4)		55-21N 83-14E	II B	2				63		U/C
OLOVYANNAYA										
Site A (1)		50-54N 115-49E	III		2	64				U/C
OMSK										
Site A (1)		55-09N 73-38E	III		2			63		U/C
Site B (Possible)(3)		55-11N 73-38E	Undet							Undet
PERM'										
Site A (1)		57-41N 56-13E	II B	2				62		Operational
Site B (2)		57-42N 55-57E	II B	2				62		Operational
Site C (3)		57-37N 56-07E	II B	2		63				Operational
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	II A	2				61		Operational
Site B (5)		63-03N 40-58E	II B	2						Operational
Site C (6)		63-01N 40-52E	III		2	63				Operational
Site D (8)		62-53N 40-50E	IV	2			63			Operational
Site E (7)		62-50N 40-35E	IV	2				63		Operational
SHADRINSK										
Site A (1)		56-09N 63-52E	III		2					Operational
Site B (2)		56-10N 64-08E	III		2			63		U/C

TABLE 2. (Continued)

Location *	BE Number	Coordinate	Type of Site	Number of Launchers			Estimated Quarter Site Operational **				Estimated Status
				Soft	Hard		1st	2nd	3rd	4th	
SVOBODNY											
Site A (3)		51-55N 128-10E	II B	2					62		Operational
Site B (1)		51-49N 128-19E	II B	2						62	Operational
Site C (2)		51-53N 128-23E	II B	2			63				Operational
Site D (4)		52-00N 128-06E	II B	2						63	U/C
TEYKOVO											
Site A (1)		56-55N 40-27E	II B	2					62		Operational
Site B (2)		56-56N 40-33E	II B	2					62		Operational
Site C (3)		56-55N 40-17E	II B	2			63				Operational
Site D (4)		56-58N 40-40E	II B	2					63		U/C
TYUMEN'											
Site A (3)	56-52N 65-35E	IV	2					63		Operational	
Site B (1)	56-48N 65-38E	IV	2					63		Operational	
Site C (2)	56-51N 65-28E	IV	2					63		Operational	
VERKHNYAYA SALT											
Site A (2)	58-09N 60-16E	II B	2					62		Operational	
Site B (1)	58-06N 60-22E	II A	2						61	Operational	
Site C (3)	58-10N 60-28E	II A	2						61	Operational	
Site D (4)	58-12N 60-34E	II B	2					62		Operational	
Site E (5)	58-14N 60-54E	II B	2					63		Operational	
Site F (7)	58-14N 60-41E	III		2					63	U/C	
Site G (8)	58-13N 60-49E	III			2				63	U/C	
Site H (9)	58-05N 60-13E	II (Mod?)	2					64		U/C	
Site I (10)	58-07N 60-33E	II (Mod?)	2					64		U/C	
YEDROVO											
Site A (2)	57-48N 33-36E	II B	2						62	Operational	
Site B (1)	57-48N 33-14E	II B	2						62	Operational	
Site C (5)	57-49N 33-08E	III			2			63		Operational	
Site D (4)	57-48N 33-29E	II B	2						63	U/C	
Site E (8)	57-52N 33-17E	III			2				63	Operational	
Site F (6)	57-43N 33-06E	II B	2						63	U/C	
Site G (7)	57-47N 33-02E	II B	2						63	U/C	
YOSHKAR-OLA											
Site A (1)	56-35N 48-10E	II B	2						62	Operational	
Site B (2)	56-35N 48-18E	II B	2						62	Operational	
Site C (3)	56-32N 48-25E	II B	2					63		Operational	
Site D (4)	56-32N 48-19E	II B	2						63	U/C	
YUR'YA											
Site A (2)	59-09N 49-33E	II A	2							61	Operational
Site B (1)	59-08N 49-41E	II A	2							61	Operational
Site C (3)	59-12N 49-28E	II B	2					62		Operational	
Site D (4)	59-15N 49-24E	II B	2						62	Operational	
Site E (5)	59-22N 49-17E	III			2					62	Operational
Site F (7)	59-21N 49-13E	II B	2					63		Operational	
Site G (6)	59-04N 49-52E	III			2			63		Operational	
Site H (8)	59-11N 49-46E	II B	2						63	U/C	
SUB TOTALS			76	120	30						

TABLE 2. (Continued)

Location *	Coordinate	Type of Site	Number of Launchers		Estimated Quarter Site Operational **				Estimated Status
			Soft	Hard	1st	2nd	3rd	4th	
TYURA TAM									
Complex A	45-55N 63-20E	I	1						Operational
Complex A2	45-55N 63-20E	I	1						Operational
Complex B	45-59N 63-33E	I							
		Prototype	1						Operational
Complex C	45-48N 63-39E	II							
		Prototype	2						Operational
Complex C3	45-48N 63-39E	II	1						Operational
		III							
Complex D1	45-59N 63-57E	Prototype		2					Operational
Complex D2	45-59N 63-57E	III		2					U/C
Complex E	45-58N 63-12E	Undet	2 (Prob)						Operational
Complex F	46-02N 63-06E	III		2					U/C
Complex G	46-03N 62-56E	Undet	Undet	Undet					U/C
Complex H		Undet							U/C
TOTALS			85	128	38				

*TDI site designators are indicated in parenthesis.

**The operational status assigned to the Type IV sites is based on an estimated construction period of 12-15 months. Lack of good quality photography has precluded a positive determination of their current status. Therefore, when good quality photography is available the status of construction, and the operational readiness date may require changing.

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
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
ANASTAS'YEVKA 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
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
Hard Launch Site (RUDNYA ZLOTINSKAYA)		51-04-30N 28-07-00E	IV	2		Complete
BELOMORSK						
Launch Site No 1 (ROMOYE)		64-26-15N 34-18-15E	III	2		Late
BORSHCHEV Launch Complex						
Launch Site No 1 (SKALA PODOL'SKAYA 1)		48-51-00N 26-08-30E	I	4		Complete
Launch Site No 2 (SKALA PODOL'SKAYA 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
Hard Launch Site (BRODY 1)		50-06-00N 25-12-00E	IV	2		Complete
BUYNASK Launch Complex						
Hard Launch Site No 1 (KAKASHURA)		42-39-15N 47-27-00E	IV	2		Complete
Hard Launch Site No 2 (GELLI)		42-45-45N 47-28-15E	IV	2		Late
Hard Launch Site No 3 (PARAUL)		42-47-45N 47-23-00E	IV	2		Mid
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
Hard Launch Site (KUMELNITSKY)		49-24-45N 27-08-45E	IV	2		Complete

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
Hard Launch Site (BOLEKHOV)		49-06-45N 23-51-15E	IV	2		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
Hard Launch Site (STRYY)		49-16-30N 23-43-00E	IV	2		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
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
Hard Launch Site (GRANOV 2)		48-49-30N 29-29-15E	IV	2		Complete
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 (URECH'YE)		53-11-30N 27-58-30E	II	4		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 1 (GVARDEYSK 2)		54-45-15N 21-09-15E	I	4		Complete
Launch Site No 2 (PROBABLE) (GVARDEYSKI)		54-40-30N 21-08-00E	I	4		Complete
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
Hard Launch Site (IECAVA 3)		56-33-15N 24-20-30E	IV	2		Complete
JONAVA Launch Complex						
Launch Site No 1 (KARMELOVA)		54-57-15N 24-06-00E	II	4		Complete
Launch Site No 2 (JONAVA)		55-01-00N 24-14-15E	II	4		Complete
KAMENETS PODOL'SKIY Launch Complex						
Launch Site No 1 (KAMENETS PODOL'SKIY)		48-51-15N 26-42-30E	II	4		Complete
Launch Site No 2 (DUNAYEVTSY)		48-55-15N 26-59-15E	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
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
KROLOVETS Launch Complex						
Launch Site No 1 (KROLOVETS 1)		51-36-45N 33-28-45E	III	4		Complete
Launch Site No 2 (KROLOVETS 2)		51-40-45N 33-29-30E	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
Hard Launch Site (TYM)		39-35-15N 65-42-15E	IV	2		Complete
LAKHDENPOKH'YA (POSSIBLE)						
Launch Site		61-31-00N 30-02-00E	II	4		Undetermined
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 (POSSIBLE)		50-38-00N 34-27-30E	III	4		Undetermined
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
Hard Launch Site (VLADMIR-VOLYNSKIY)		50-48-30N 24-42-30E	IV	2		Complete
MARINA GORKA Launch Complex						
Launch Site No 1 (MARINA GORKA)		53-26-30N 27-45-45E	II	4		Complete

TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
MAYKOP Launch Complex						
Launch Site No 1 (KURDZHIPSKAYA)		44-31-45N 40-00-45E	II	4		Complete
Hard Launch Site (SHIRVANSKAYA)		44-25-30N 39-54-00E	IV	2		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
Hard Launch Site (GURELEVO)		59-25-30N 28-52-30E	IV	2		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 (NOVAVES)		48-39-30N 24-48-15E	I	4		Complete
Hard Launch Site (OTYNYA)		48-47-45N 24-50-15E	IV	2		Complete
NIGRANDE Launch Complex						
Launch Site No 1 (NIGRANDE)		56-31-00N 22-02-15E	III	4		Complete
Hard Launch Site (SKRUNDA)		56-35-45N 21-49-15E	IV	2		Mid
Hard Launch Site (PROBABLE) (VAINODE)		56-28-30N 21-50-15E	IV	2		Early
NOVOSYSOYEVKA Launch Complex						
Launch Site No 1 (NOVOSYSOYEVKA)		44-11-30N 133-26-00E	III	4		Complete
Hard Launch Site		44-07-45N 133-27-30E	IV	2		Complete
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
Hard Launch Site (REDKINO)		57-21-30N 28-26-15E	IV	2		Complete
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						
Hard Launch Site No 1 (KAMENNY MOST')		47-58-30N 30-53-00E	IV	2		Complete
Hard Launch Site No 2 (SEME NOVKA 1)		47-58-45N 30-59-30E	IV	2		Late
Hard Launch Site No 3 (SEME NOVKA 2)		47-53-45N 30-57-30E	IV	2		Mid
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)		55-09-45N 26-54-15E	II	4		Complete
Launch Site No 2 (KOZYANY)		55-20-30N 26-51-30E	II	4		Complete

TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
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
Hard Launch Site (PROBABLE)		44-31-00N 77-58-45E	IV	2		Complete
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
Hard Launch Site (ZEMAICIU KALVARIJA)		56-01-30N 21-53-30E	IV	2		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
SMORGON Launch Complex						
Launch Site No 1 (SMORGON 1)		54-31-45N 26-17-30E	III	4		Complete
Launch Site No 2 (SMORGON 2)		54-36-15N 26-23-15E	III	4		Complete
Hard Launch Site (SMORGON 2)		54-26-15N 26-18-15E	IV	2		Complete
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
Hard Launch Site (SOKAL' 3)		50-20-15N 24-26-00E	IV	2		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

TABLE 3. (Continued)

LOCATION	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
TAYBOLA Launch Complex						
Hard Launch Site No 1 (TAYBOLA 1)		68-28-15N 33-15-15E	IV	2		Complete
Hard Launch Site No 2 (TAYBOLA 2)		68-30-00N 33-23-00E	IV	2		Complete
Hard Launch Site No 3 (TAYBOLA 3)		68-25-45N 33-29-30E	IV	2		Mid
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
Hard Launch Site (TSIRGULHINA)		57-49-45N 26-12-15E	IV	2		Complete
UGOLNYY KOPI 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
Hard Launch Site (POSSIBLE) (KISHENTSY)		49-00-15N 30-13-45E	IV	2		U/C
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
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
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
YEL'SK Launch Complex						
Launch Site No 1 (YEL'SK 1)		51-42-00N 29-12-30E	I	4		Complete
Launch Site No 2 (YEL'SK 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
Hard Launch Site (LIELELEJA)		56-24-00N 23-36-45E	IV	2		Late
ZHITOMIR Launch Complex						
Launch Site No 1 (ZHITOMIR 1)		50-04-45N 28-16-15E	II	4		Late
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		Late
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
Hard Launch Site (VINNITSA)		49-17-30N 28-20-15E	IV	2		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

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TABLE 4. ALPHABETICAL LISTING OF LOCATIONS CONSIDERED IN DETAIL BY THE DWG

PLACE NAME	ICBM	MRBM/IRBM	PLACE NAME	ICBM	MRBM/IRBM
AKHTYRKA	Negative	Confirmed	DONOK	Negative	Negative
AKMOLINSK	Negative	Negative	DROGOBYCH	Negative	Confirmed
ALMA ATA	Negative	Negative	DROVYANAYA	Confirmed	Negative
ALSUNGA (See KULDIGA AREA)			DUBROVO	Negative	Undetermined
ALUKSNE	Negative	Confirmed	DUNAYEVTSY (See KAM-ENETS PODOL'SKIY)		
ALYKEL	Negative	Negative	DUNDAGA (See KULDIGA Area)		
ANADYR (See UGOL'NYYE KOPI)			DURBE (See PAPLAKA)		
ANASTAS'YEVKA	Negative	Confirmed	DYATLOVO	Negative	Confirmed
ARAL'SK	Negative	Negative	EMBA ^{4/}	Negative	Negative
ARKHANGEL'SK	Negative	Negative	ENGEL'S (See SARATOV/ENGEL'S AREA)		
ASANOVSHCHINA (See OSTROV)			FEODOSIYA ^{5/}	Negative	Negative
AY PETRI	Negative	Negative	FRUNZE	Negative	Negative
BALAKLAVA ^{1/}	Negative	Negative	GLADKAYA	Confirmed	Negative
BALTA	Negative	Confirmed	GLAZOV	Negative	Negative
BARANO-ORENBURG-SKOYE	Negative	Confirmed	GNIVAN (See ZHMERINKA)		
BAUTINO ^{2/}	Negative	Negative	GODYKHA (See ZHITOMIR)		
BELAYA T'SERKOV'	Negative	Negative	GOMEL	Negative	Confirmed
BELOKOROVICH	Negative	Confirmed	GORODOK (L'VOV Area)	Negative	Undetermined
BERDICHEV (See ZHITOMIR)			GRANOV	Negative	Confirmed
BEREGOVO (See MUKACHEVO)			GRESK	Negative	Confirmed
BERESTETCHKO (See BRODY)			GROBINA (See PAPLAKA)		
BEREZOVKA (SARATOV/ENGEL'S AREA)	Negative	Negative	GRODEKOVO (See BARANO-ORENBURGSKOYE)		
BEREZOVKA (See DYATLOVO)			GURLEVO (See MOLOSKOVITSY)		
BERINGOVSKIY	Negative	Negative	GUSEV	Negative	Confirmed
BOLEKHOV (See DOLINA)			GVARDEYSK	Negative	Confirmed
BORKHOV (See GOMEL')			HIUMAA ISLAND	Negative	Negative
BORKOVICH (See DISNA)			IECAVA (See JELGAVA)		
BORSHCHEV	Negative	Confirmed	IRKUTSK	Negative	Negative
BREST	Negative	Confirmed	ITATKA	Confirmed	Negative
BRODY	Negative	Confirmed	IUL'TIN	Negative	Negative
BULZHINO	Negative	Undetermined	IVANOVO (See PINSK)		
BUYNASK	Negative	Confirmed	JELGAVA	Negative	Confirmed
BYTEN (See SLONIM)			JONAVA	Negative	Confirmed
CHAADAYEVKA	Undetermined	Undetermined	KAMENETS PODOL'SKIY	Negative	Confirmed
CHAPAYEVKA	Negative	Negative	KAMENNY MOST' (See PERVOMAYSK)		
CHAPAYEVSK	Negative	Negative	KAMYSHIN	Negative	Negative
CHELKAR	Negative	Confirmed	KANDAGACH	Doubtful	Doubtful
		R & D	KANDALAKSHA	Negative	Doubtful
CHEREPOVETS	Negative	Negative	KAPUSTIN YAR	Negative	Confirmed
CHERNOMORSKOYE ^{3/}	Negative	Negative			R & D
CHITA (See DROVYANAYA)			KARABABAU (See SARYOZEK)		
CHKALOV (See ORENBURG)			KARANGIT ^{6/}	Negative	Negative
DAUGAVPILS	Negative	Negative	KARKARALINSK	Negative	Negative
DELYATIN	Negative	Negative	KARMELAVA (See JONAVA)		
DERAZHNYA	Negative	Confirmed	KEDAINAI	Negative	Negative
DISNA	Negative	Confirmed	KHAAPSALU (See RISTI)		
DOBROVODY (See UMAN')			KHABAROVSK (See ANASTAS'YEVKA)		
DOLINA	Negative	Confirmed	KHASHURI	Negative	Negative
DOLON'	Negative	Negative	KHMELNITSKIY (See DERAZHNYA)		
			KHVALINSK	Negative	Negative
			KHYROV	Negative	Undetermined

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TABLE 4. (Continued)

PLACE NAME	ICBM	MRBM/IRBM	PLACE NAME	ICBM	MRBM/IRBM
KIEV	Negative	Negative	MOLOSKOVITSY	Negative	Confirmed
KILDIN ISLAND (See STARYY KILDIN)			MONTYGINO	Negative	Negative
KINESHMA	Negative	Negative	MOTOL (See PINSK)		
KIRENSK	Doubtful	Negative	MOZHAYSK	Negative	Negative
KIVERTSY	Negative	Confirmed	MUKACHEVO	Negative	Confirmed
KLAIPEDA	Negative	Doubtful	MURMANSK	Negative	Doubtful
KLESOV (See SARNY)			NADVORNAYA	Negative	Confirmed
KOLGOMPYA	Negative	Negative	NAKHODKA (See RYURIK)		
KONKOVICHI	Negative	Confirmed	NENOKSA'	Negative	Negative
KOROSTEN	Negative	Confirmed	NIGRANDE &/	Negative	Confirmed
KOSE (See TALLINN)			NIZHNYAYA SALDA (See VERKHNYAYA SALDA)		
KOSTROMA	Confirmed	Negative	NIZHNYAYA TURA (See VERKHNYAYA SALDA)		
KOZELSK	Confirmed	Negative	NORIL'SK	Negative	Negative
KOZHANOVICHI	Negative	Confirmed	NOVAYA MEZINOVKA	Negative	Negative
KOZYANY (See POSTAVY)			NOVITSKOYE (See SUCHAN)		
KRASKINO	Negative	Confirmed	NOVOLITOVSK (See SUCHAN)		
KRASNOARMEYSKOYE (See SARATOV/ENGEL'S AREA)			NOVOSIBIRSK	Confirmed	Negative
KRASNOYARSK (See GLADKAYA)			NOVOSYSOYEVKA	Negative	Confirmed
KRASNOZNAMENSK	Negative	Confirmed	NOVOVES (See NADVORNAYA)		
KREMOVO	Negative	Negative	NYANDOMA	Undetermined	Undetermined
KRISTANOPOL (See SOKAL')			OBOZERSKAYA	Negative	Negative
KROLEVETS	Negative	Confirmed	OLEN'YA AREA	Negative	Undetermined
KRUPA (See RUZHANY)			OLEVSK (See BEL-OKOROVICHI)		
KULDIGA AREA	Negative	Negative	OL'GOPOL' (See BALTA)		
KUNGUR (See PERM')			OLOYANNAYA	Confirmed	Negative
KURDZHIPS KAYA (See MAYKOP)			OMSK	Confirmed	Negative
KURGANCHA	Negative	Confirmed	ORENBURG	Negative	Negative
KURITICHI (See PETRIKOV)			OSTROG	Negative	Confirmed
KURMENI (See MARCIANA/MADONA)			OSTROV	Negative	Confirmed
KYSHTYM	Negative	Negative	OTAR	Negative	Negative
LEBEDIN	Negative	Confirmed	OTYNYA (See NADVORNAYA)		
LEJASCIEMS (See ALUKSNE)			OVRUCH (See USOVO)		
LIDA	Negative	Confirmed	PAPLAKA	Negative	Confirmed
LIELEJA (See ZAGARE)			PARYSHCHE (See NADVORNAYA)		
LIPNIKI (See USOVO)			PENZA (See CHAADA-YEVKA)		
LUTSK	Negative	Confirmed	PERM	Confirmed	Negative
L'VOV	Negative	Negative	PERVOMAYSK	Negative	Confirmed
LYALICHI (See KREMOVO)			PETRIKOV (See KONKOVICHI)		
MAKAT	Negative	Confirmed R & D	PEVEK	Negative	Negative
MALAYA SAZANKA	Negative	Negative	PILTENE (See KULDIGA AREA)		
MANKOVKA (See UMAN')			PINSK	Negative	Confirmed
MARCIANA/MADONA AREA	Negative	Undetermined	PLESETSK	Confirmed	Negative
MARINA GORKA	Negative	Confirmed	POCHINOK	Negative	Negative
MAYKOP	Negative	Confirmed	PODPOLOZ'YE	Negative	Undetermined
MEDENITSA (See DROGOBYCH)			POLOTSK	Negative	Confirmed
MEDVED	Negative	Negative	POLTAVA	Negative	Negative
MOLODETSKOYE (See UMAN')			POL'YARNYY URAL	Negative	Negative
			POSTAVY	Negative	Confirmed

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TABLE 4. (Continued)

PLACE NAME	ICBM	MRBM/IRBM	PLACE NAME	ICBM	MRBM/IRBM
PROKHORY (See SPASSK DAL'NYY)			SOLY (See SMORGON)		
PROVIDENYA	Negative	Doubtful	SOVETSK		
PRUZHANY	Negative	Confirmed	SOVETSKAYA GAVAN AREA ^{10/}	Negative	Negative
RAGNIT (See KRASNOZNA-MENSK)			SPASSK-DAL'NYY	Negative	Negative
RAKVERE	Negative	Confirmed	STALINABAD	Negative	Negative
RECHITSA (See DUBROVO)			STARYY KILDIN ^{11/}	Negative	Negative
REDKINO (See OSTROV)			STRYY (See DROGOBYCH)		
RISTI	Negative	Confirmed	SUCHAN	Negative	Confirmed
ROZHDESTVENKA	Negative	Confirmed	SUDAK	Negative	Negative
RUDNYA ZLOTINSKAYA (See BELOKOROVICH)			SUROVATIKHA	Negative	Negative
RUSKI (See ALUKSNE)			SVALYA AREA	Negative	Possible
RUZHANY	Negative	Confirmed	SVERDLOVSK	Negative	Negative
RYURIK ^{12/}	Negative	Negative	SVOBODNYY	Confirmed	Negative
SAAREMAA ISLAND	Negative	Negative	TALLINN	Negative	Negative
SALANTAI (See SATEIKIAI)			TAMBOV	Negative	Negative
SALEKHARD	Negative	Negative	TASHARA	Negative	Negative
SAMLAND PENINSULA	Negative	Negative	TASHKENT	Negative	Negative
SARATOV/ENGEL'S AREA	Negative	Negative	TAURAGE	Negative	Confirmed
SARNY	Negative	Doubtful	TAYBOLA	Negative	Confirmed
SAROVA	Negative	Negative	TEYKOVO	Confirmed	Negative
SARY OZEK	Negative	Confirmed	TIKSI	Negative	Negative
SARY SHAGAN ^{8/}	Negative	Negative	TOMSK (See ITATKA)		
SATEIKIAI	Negative	Confirmed	TOROPETS	Negative	Negative
SEME NOVKA (See PERVOMAYSK)			TORVA	Negative	Confirmed
SEMPALATINSK	Negative	Negative	TROSTYANETS (See KIVERTSY)		
SERGACH	Negative	Negative	TSIRGULIINA (See TORVA)		
SEVASTOPOL' ^{9/}	Negative	Negative	TUAPSE	Negative	Negative
SEVERNYY SUCHAN (See SUCHAN)			TUKUMS	Negative	Negative
SHADRINSK	Confirmed	Negative	TYM (See KURGANCHA)		
SHAGAN (See DOLON)			TYUMEN'	Confirmed	Negative
SHEPETOVKA (See OSTROG)			TYURA TAM	Confirmed	Negative
SHESTOVO	Negative	Negative		R & D	
SHEVELEVO (See OSTROV)			UFA	Doubtful	Negative
SHIKHANY	Negative	Negative	UGOL'NYYE KOPI ^{12/}	Negative	Confirmed
SHIRVANSKAYA (See MAYKOP)			UKMERGE	Negative	Confirmed
SHISHCHITSY (See GRESK)			UKRAINA	Negative	Negative
SIMUNA (See RAKVERE)			ULAN UDE	Negative	Negative
SKALA-PODOL'SKAYA (See BORSHCHEV)			UMAN'	Negative	Confirmed
SKRUNDA (See NIGRANDE)			URECH'YE	Negative	Confirmed
SLAVSK (See SOVETSK)			USOVO	Negative	Confirmed
SLAVYANKA (See KRASKINO)			USSURISK VOZDVI-ZHENKA	Negative	Negative
SLITERE (See KULDIGA AREA)			UST'-UKHTA	Negative	Negative
SLONIM	Negative	Confirmed	UZHGOROD	Negative	Undetermined
SMORGON	Negative	Confirmed	VAIKE MAARJA (See RAKVERE)		
SOFIYA ALEKSEYEVKA (See BARANO-ORENBURG-SKOYE)			VALDAY	Negative	Negative
SOKAL'	Negative	Confirmed	VERKHNYAYA SALDA	Confirmed	Negative
			VEPRIAI (See UKMERGE)		
			VIESVILLE (See KRAS-NOZNAMENSK)		
			VINNIKI (See L'VOV)		
			VINNITSA (See ZHMERINKA)		
			VLADIMAR VOLYNSKIY (See LUTSK)		
			VLADIVOSTOK	Negative	Negative
			VOLKOVYISK	Negative	Negative
			VOLODARSK	Undetermined	Undetermined

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TABLE 4. (Continued)

PLACE NAME	ICBM	MRBM/IRBM	PLACE NAME	ICBM	MRBM/IRBM
VOLOGDA/SOKOL	Negative	Negative	YOSHKAR-OLA	Confirmed	Negative
VOLOVETS (See SVALYAVA)			YUR'YA	Confirmed	Negative
VORKUTA	Negative	Negative	YURYUZAN	Negative	Negative
VORU	Negative	Confirmed	ZAGARE	Negative	Confirmed
VSELYUB	Negative	Confirmed	ZBLYANY (See		
YAKUTSK	Negative	Negative	DYATLOVO)		
YASVA (See VERKHNYAYA			ZELKI (See DISNA)		
SALDA)			ZEMAICIU KALVARIJA (See		
YATSUKI (See DYATLOVO)			SATEIKAI)		
YEDROVO	Confirmed	Negative	ZHEREBKOVO (See		
YEKATERINOVKA (See			BALTA)		
SUCHAN)			ZHITOMIR	Negative	Confirmed
YEL'SK	Negative	Confirmed	ZHMERINKA	Negative	Confirmed
YEVPARATORIYA ^{13/}	Negative	Negative	ZNAMENSK	Negative	Confirmed

^{1/} Confirmed cruise missile facility.

^{2/} ASM Test Range.

^{3/} Cruise missile site.

^{4/} Missile-related R & D facility

^{5/} Possible cruise missile facility

^{6/} Possible cruise missile launch site.

^{7/} Cruise missile launch site.

^{8/} ABM R & D facility.

^{9/} Cruise missile launch site.

^{10/} MRBM firings confirmed - no fixed sites in ☐ photography.

^{11/} Two cruise missile launch sites.

^{12/} Referred to as Ugolnyy in some documents. Since Beringovskiy was formerly known as Ugolnyy, the DWG has selected Ugolnyy Kopi as the correct place name for this MRBM/IRBM site.

^{13/} Space tracking facility.

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